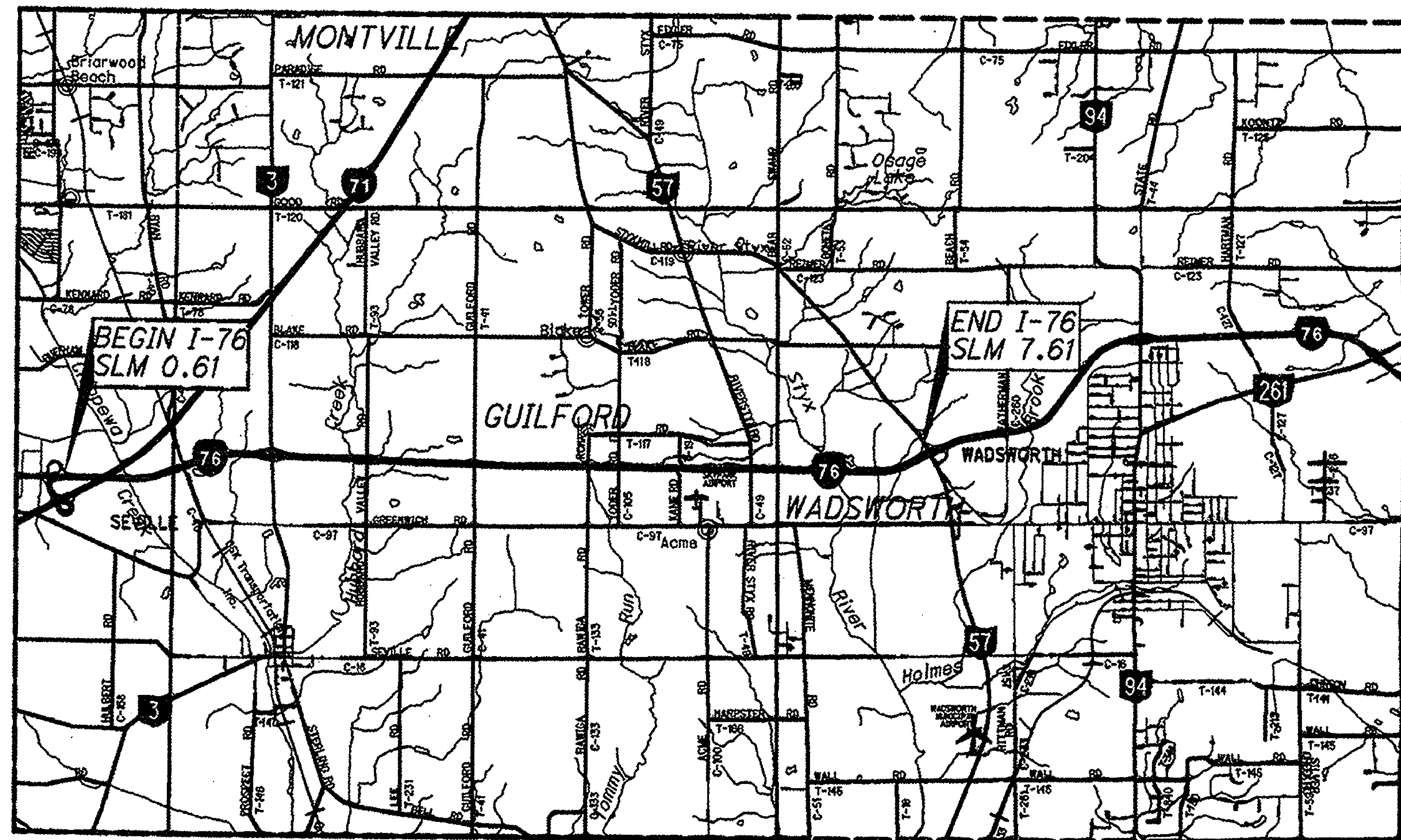


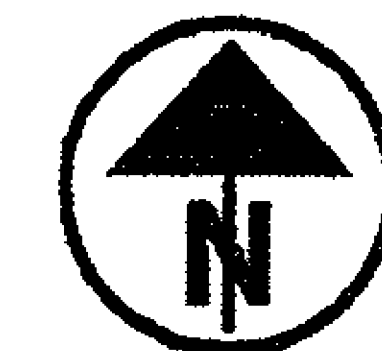
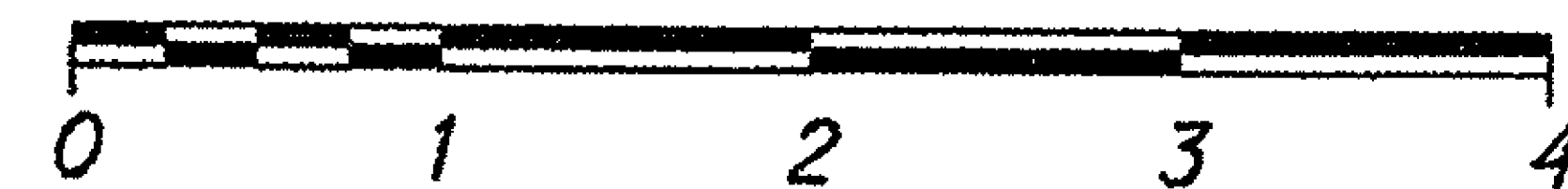
MED-76-0.61  
101017 PID 77475  
DIST 03 2/25/2010  
dp:\001054747\sheet\road\road\54747\1: DESIGN  
WORKSTATION: mschafra  
DATE: 2002/6/01



LOCATION MAP

LATITUDE: 41° 1' 56" LONGITUDE: 81° 49' 49"

SCALE IN MILES



PORTION TO BE IMPROVED  
INTERSTATE & DIVIDED HIGHWAY  
UNDIVIDED STATE & FEDERAL ROUTES  
OTHER ROADS

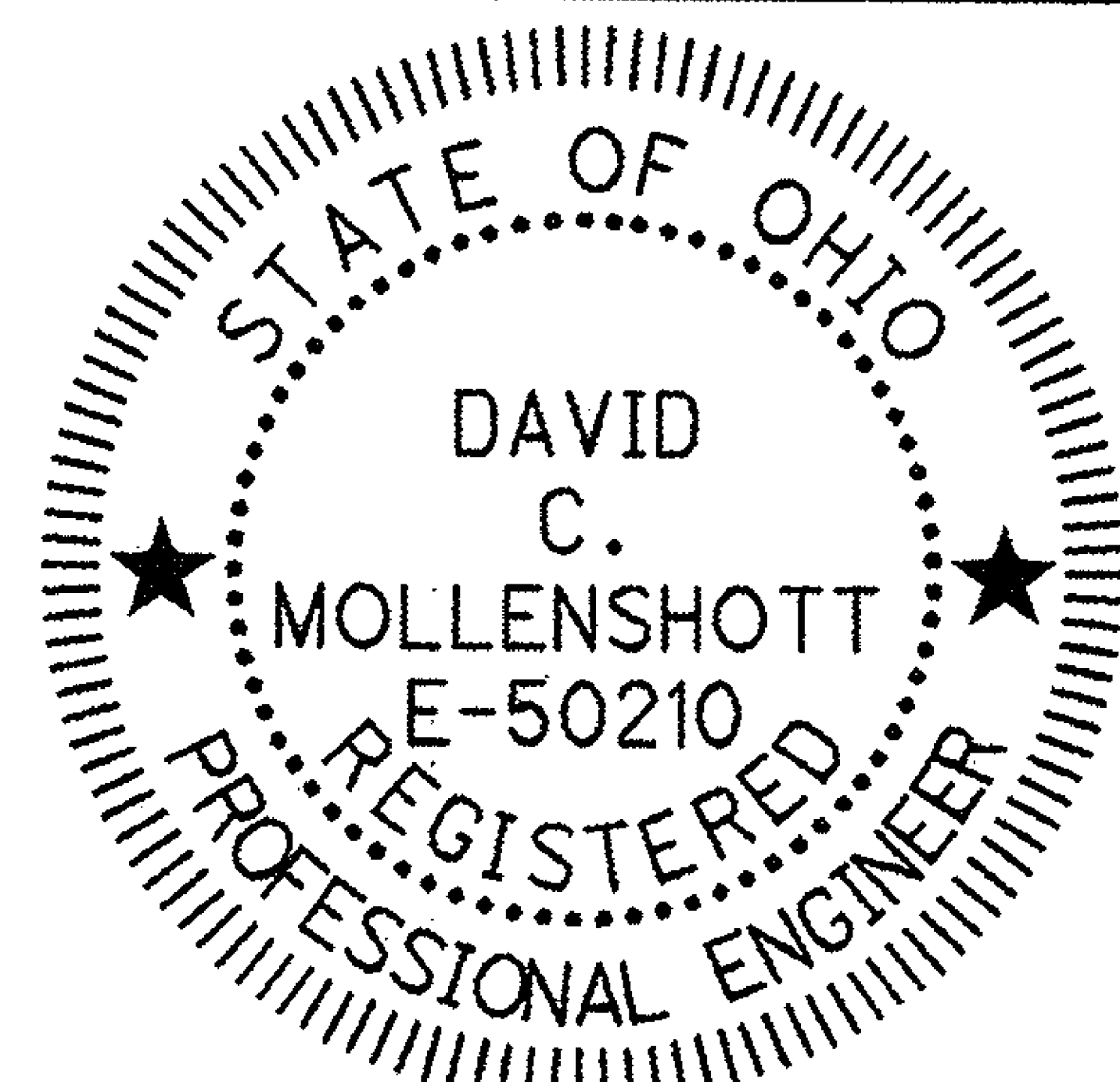
DESIGN DESIGNATION

|                                                    |           |           |
|----------------------------------------------------|-----------|-----------|
|                                                    | 0.61-2.32 | 2.32-7.61 |
| CURRENT ADT (2010)                                 | 28290     | 30470     |
| DESIGN YEAR ADT (2030)                             | 28550     | 39330     |
| DESIGN HOURLY VOLUME (2030)                        | 2570      | 3540      |
| DIRECTIONAL DISTRIBUTION                           | 0.51      | 0.57      |
| TRUCKS (24 HOUR B&C)                               | .32       | 0.30      |
| DESIGN SPEED                                       | 65        | 65        |
| LEGAL SPEED                                        | 65        | 65        |
| DESIGN FUNCTIONAL CLASSIFICATION: RURAL INTERSTATE |           |           |

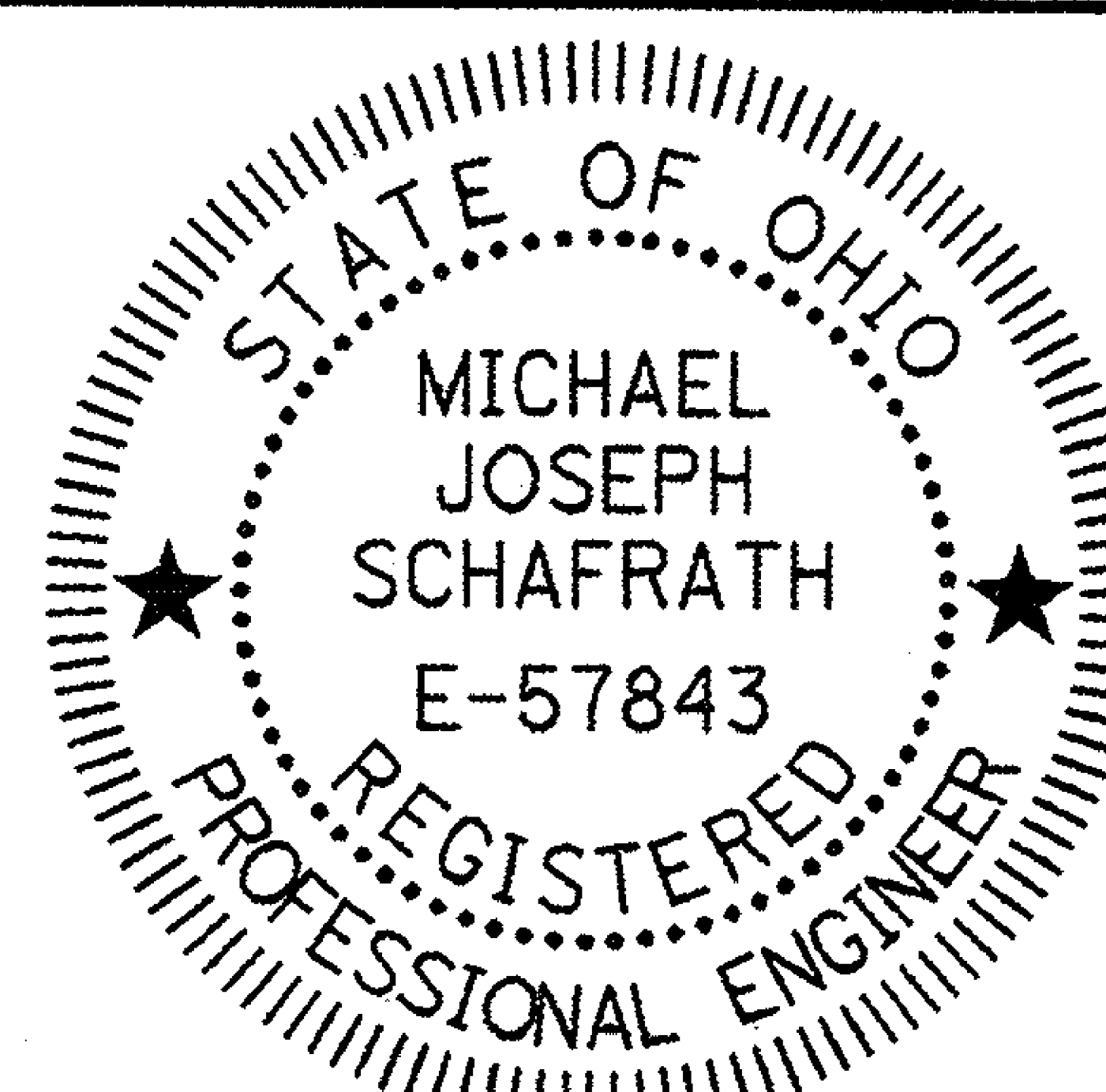
DESIGN EXCEPTIONS APPROVAL DATE JUNE 11, 1992:  
GRADED SHOULDER WIDTH  
VERTICAL ALIGNMENT & STOPPING SIGHT DISTANCE  
HORIZONTAL CLEARANCE

STRUCTURE/CULVERT  
ENGINEERS SEAL:

ROADWAY  
ENGINEERS SEAL:



SIGNED: *David C. Mollenhott*  
DATE: 10/19/09



SIGNED: *Michael J. Schafra*  
DATE: 10/9/09

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**MED-76-0.61**

**VILLAGE OF SEVILLE  
WESTFIELD TOWNSHIP  
GUILFORD TOWNSHIP  
WADSWORTH TOWNSHIP**

INDEX OF SHEETS:

|                                                         |            |
|---------------------------------------------------------|------------|
| TITLE                                                   | 1          |
| CENTERLINE MONUMENTATION, REFERENCE TIES, & BENCH MARKS | 2          |
| SCHEMATIC PLAN                                          | 3-10       |
| MAINLINE & RAMPS PAVING LIMITS                          | 11-16      |
| TYPICAL SECTIONS                                        | 17-28      |
| GENERAL NOTES                                           | 29-30, 30A |
| MAINTENANCE OF TRAFFIC NOTES                            | 31-34, 34A |
| CROSSOVER TYPICAL SECTIONS                              | 35-39      |
| MAINTENANCE OF TRAFFIC TYPICAL SECTIONS                 | 40-41      |
| MAINTENANCE OF TRAFFIC SUBSUMMARY                       | 42         |
| PAVEMENT TRANSITION DETAILS                             | 43         |
| GENERAL SUMMARY                                         | 44-47      |
| PAVEMENT & SHOULDER DATA                                | 48-51      |
| PAVEMENT REPAIR QUANTITIES                              | 52-56      |
| U-TURN MEDIAN CROSSOVER DETAILS                         | 57         |
| U-TURN MEDIAN CROSSING SUB-SUMMARY                      | 58         |
| PLAN & PROFILE - PHASE 2 CROSSOVER                      | 59-60      |
| PLAN & PROFILE - PHASE 3 CROSSOVER                      | 61-62      |
| WESTBOUND WEIGH STATION PARKING AREA REPAIRS            | 63         |
| UNDERDRAIN DETAILS                                      | 64-67      |
| UNDERDRAIN QUANTITIES                                   | 68-74      |
| DRAINAGE SUB-SUMMARY                                    | 75         |
| GUARDRAIL NOTES                                         | 76         |
| GUARDRAIL & BARRIER REFLECTOR SUB-SUMMARY               | 77         |
| PAVEMENT MARKING SUB-SUMMARY                            | 78, 78A    |
| RAISED PAVEMENT MARKER SUB-SUMMARY                      | 79         |
| SIGNING GENERAL NOTES                                   | 80-81      |
| SIGNING DETAIL                                          | 82         |
| SIGNING PLAN SHEETS                                     | 83-103     |
| SIGNING ELEVATIONS                                      | 104-105    |
| SIGN SUB-SUMMARY                                        | 106-113    |
| STRUCTURE SUMMARY                                       | 114-117    |
| STRUCTURE GENERAL NOTES & MOT NOTES                     | 118-120    |
| STRUCTURE INFORMATION                                   | 121        |
| STRUCTURE DETAILS                                       | 122-138    |

STANDARD CONSTRUCTION DRAWINGS

|        |          |          |          |           |          |          |          |          |          |       |          |
|--------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|-------|----------|
| BP-2.1 | 7/18/08  | GR-2.1   | 1/16/04  | MT-98.21  | 7/17/09  | TC-22.10 | 1/19/01  | TC-52.20 | 1/19/07  | SS800 | 10/16/09 |
| BP-2.2 | 7/18/08  | GR-3.1   | 10/16/09 | MT-98.22  | 7/17/09  | TC-22.20 | 1/19/01  | TC-61.30 | 4/17/09  | SS802 | 01/16/09 |
| BP-2.4 | 7/16/04  | GR-4.2   | 1/19/07  | MT-98.28  | 7/17/09  | TC-31.21 | 4/20/01  | TC-65.10 | 1/21/05  | SS832 | 05/05/09 |
| BP-3.1 | 10/19/07 | RM-4.1   | 10/20/06 | MT-98.29  | 7/17/09  | TC-32.10 | 1/19/07  | TC-65.11 | 1/21/05  | SS836 | 04/15/05 |
| BP-6.1 | 7/28/00  | RM-4.2   | 10/19/07 | MT-99.20  | 1/16/09  | TC-32.11 | 1/19/07  | TC-71.10 | 1/16/09  | SS847 | 10/16/09 |
| BP-9.1 | 4/15/05  |          |          | MT-100.00 | 1/16/09  | TC-41.10 | 10/18/07 | TC-72.20 | 10/16/09 | SS902 | 10/20/08 |
| CB-1.1 | 7/15/05  | MT-35.10 | 4/20/01  | MT-101.60 | 4/17/09  | TC-41.20 | 1/19/01  | TC-73.10 | 1/19/01  |       |          |
| DM-1.1 | 4/21/06  | MT-95.30 | 7/17/09  | MT-101.70 | 1/16/09  | TC-41.25 | 4/17/09  |          |          |       |          |
| DM-1.2 | 10/21/05 | MT-95.40 | 7/17/09  | MT-101.90 | 1/16/09  | TC-41.30 | 1/19/07  |          |          |       |          |
| DM-1.4 | 4/21/06  | MT-95.62 | 9/05/06  | TC-07.65  | 1/19/07  | TC-42.10 | 1/19/07  |          |          |       |          |
| DM-4.3 | 4/17/09  | MT-97.10 | 4/17/09  | TC-12.30  | 1/19/07  | TC-42.20 | 7/16/04  |          |          |       |          |
| DM-4.4 | 4/17/09  | MT-98.10 | 7/17/09  | TC-15.15  | 1/19/07  | TC-51.11 | 4/20/01  |          |          |       |          |
| GR-1.1 | 7/16/04  | MT-98.11 | 7/17/09  | TC-18.24  | 1/18/02  | TC-51.12 | 4/20/01  |          |          |       |          |
|        |          | MT-98.20 | 7/17/09  | TC-21.20  | 10/16/09 | TC-52.10 | 1/19/07  |          |          |       |          |

SUPPLEMENTAL  
SPECIFICATIONS

SPECIAL  
PROVISIONS

PROJECT DESCRIPTION

PAVEMENT PLANING, PAVEMENT REPAIRS, DRAINAGE  
WORK, ASPHALT CONCRETE REPLACEMENT, TRAFFIC  
CONTROL ITEMS, GUARDRAIL RECONSTRUCTION, AND  
STRUCTURE MAINTENANCE.

PROJECT EARTH DISTURBED AREA: N/A (MAINTENANCE  
PROJECT)  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A (MAINTENANCE  
PROJECT)  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (MAINTENANCE  
PROJECT)

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR  
THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED  
ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE  
DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF  
SECTION 5511.02 OF THE OHIO REVISED CODE.

2008 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF  
OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING  
CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED  
IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT  
THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE  
THE CLOSING TO TRAFFIC OF THE HIGHWAY AND  
THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY  
OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS  
AND ESTIMATES.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (H)  
OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIA  
SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED  
TO BE REASONABLE AND SAFE, AND ARE HEREBY  
ESTABLISHED FOR THE DURATION OF THIS PROJECT.  
THE PRIMA FACIA SPEED LIMIT OR LIMITS HEREBY  
ESTABLISHED SHALL BECOME EFFECTIVE WHEN  
APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE  
ERECTED.

APPROVED *[Signature]*  
DATE 10/9/09 DISTRICT DEPUTY DIRECTOR

APPROVED *[Signature]*  
DATE 10-28-09 DIRECTOR, DEPARTMENT OF  
TRANSPORTATION

PLAN PREPARED BY:



**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES  
CALL TWO WORKING DAYS  
BEFORE YOU DIG  
CALL  
1-800-362-2764  
(TOLL FREE)  
OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY  
OIL & GAS PRODUCERS PROTECTIVE  
SERVICE CALL: 1-800-925-0988

FEDERAL PROJECT NO.  
**E040(717)**

PID NO.  
**77475**

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT

**NONE**

**MED-76-0.61**

1  
138

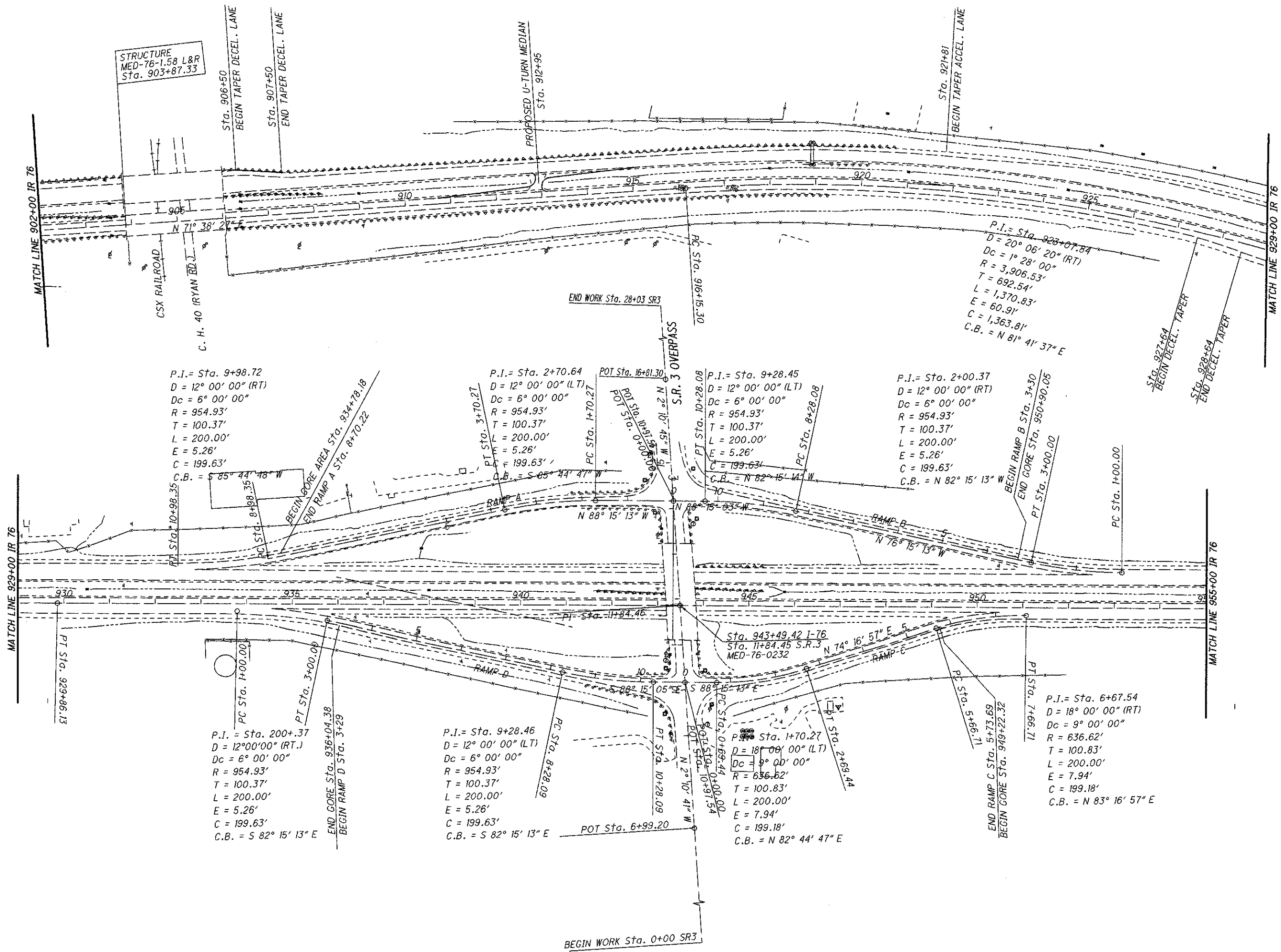
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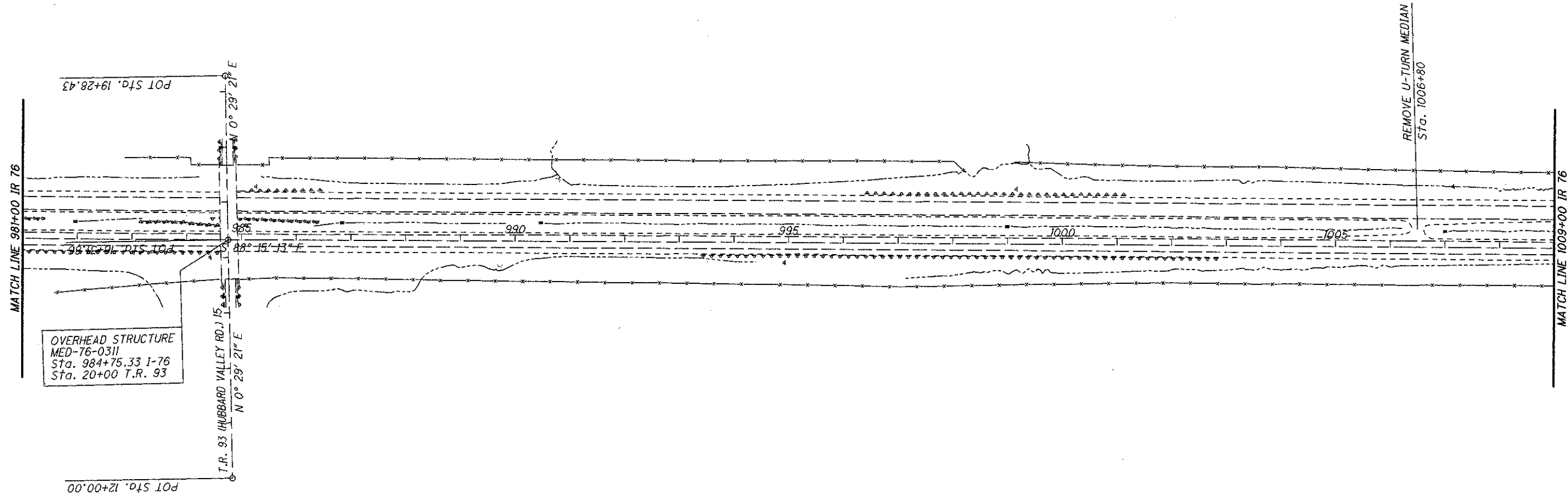
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|-----------------------|-------------|--------------------------------------------------------------|
| PROJECT ADJ. FACTOR = | 3.281216921 | State Plane Grid (meters) to Project Ground (US Survey Feet) |
| ENG./METRIC CONV.=    | 3.280833333 | US SURVEY FOOT TO METERS CONVERSION FACTOR                   |
| UNITLESS FACTOR =     | 1.00016918  | State Plane Grid to Project Ground (same units)              |

|                                   |         |         |         |
|-----------------------------------|---------|---------|---------|
| PAF BASED ON:                     | Degrees | Minutes | Seconds |
| MEAN PROJECT LATITUDE =           | 41      | 2       | 15      |
| MEAN PROJECT ELEVATION (FT)= 1175 |         |         |         |

State Plane Grid Coordinates derived through a series of Static, Rapid Static, & VRS RTK GPS observations. Points having prefix 'CP' are project control points. Point CPI (Project Base Point) located by means of averaging multiple 2+ hour Static GPS sessions solved through the National Geodetic Survey's Online Positioning User Service (OPUS). Subsequent control points positioned by overlapping Rapid Static GPS observations with Static base sessions processed through Trimble Geomatics Office (TGO) software radiating vectors from CPI to all control points. Points with prefix 'MB' and 'MN' are centerline & reference monuments located. Points with prefix 'RE' are existing Right of Way corners and points with prefix 'RP' are Right of Way Pin Monuments set this project. Grid coordinates and distances (meters) values are multiplied by the PAF to obtain Project ground values in feet.







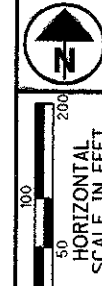
MED-76-0.61

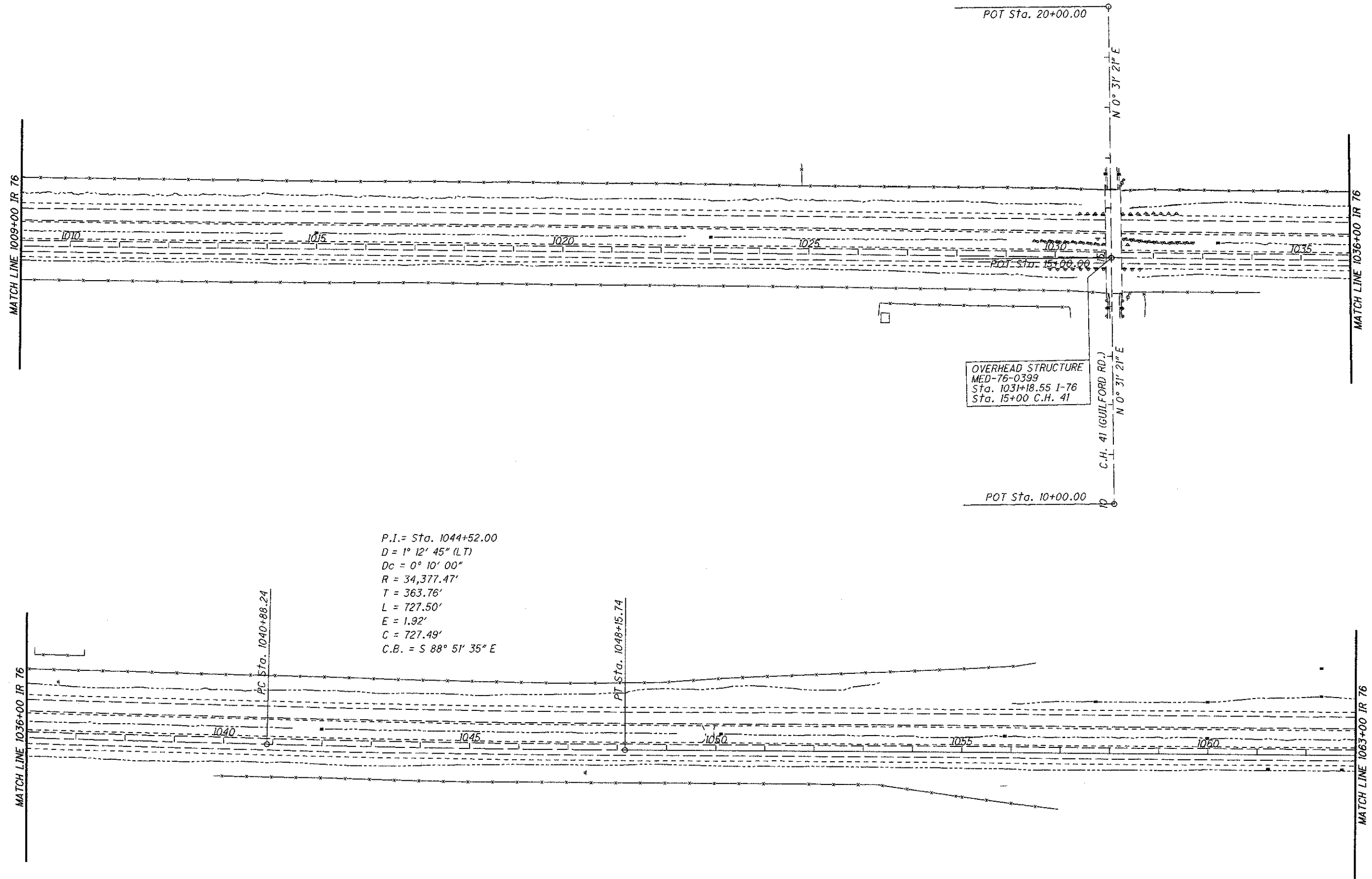
STA 955+00 TO STA 1009+00

SCHEMATIC

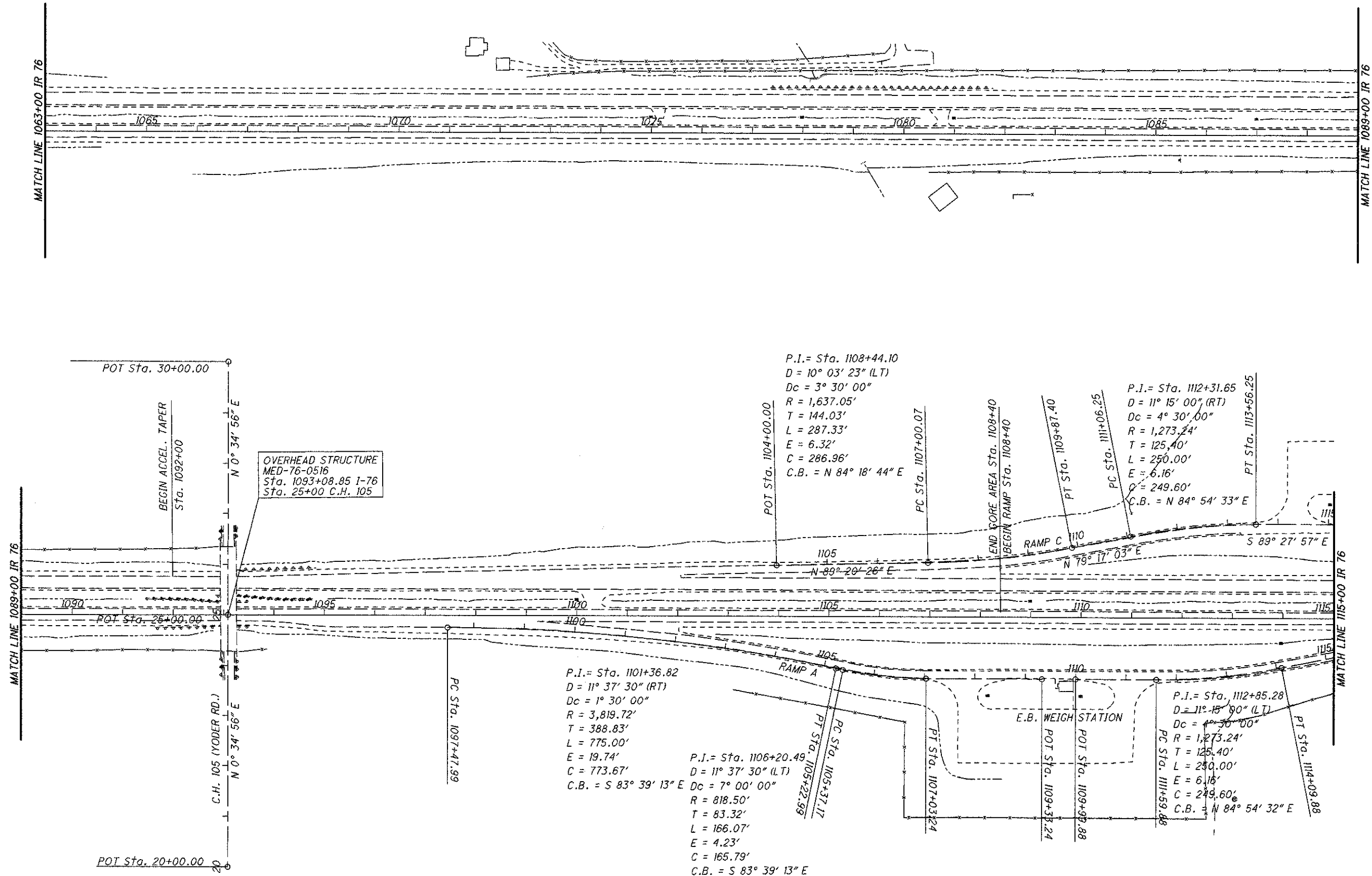
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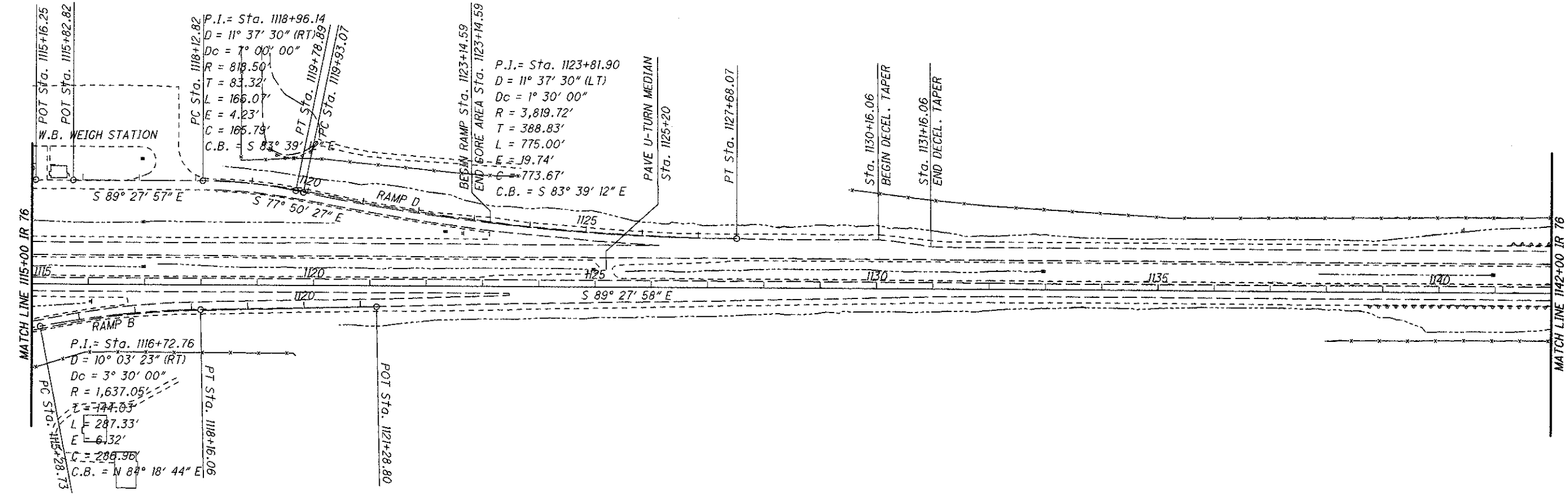
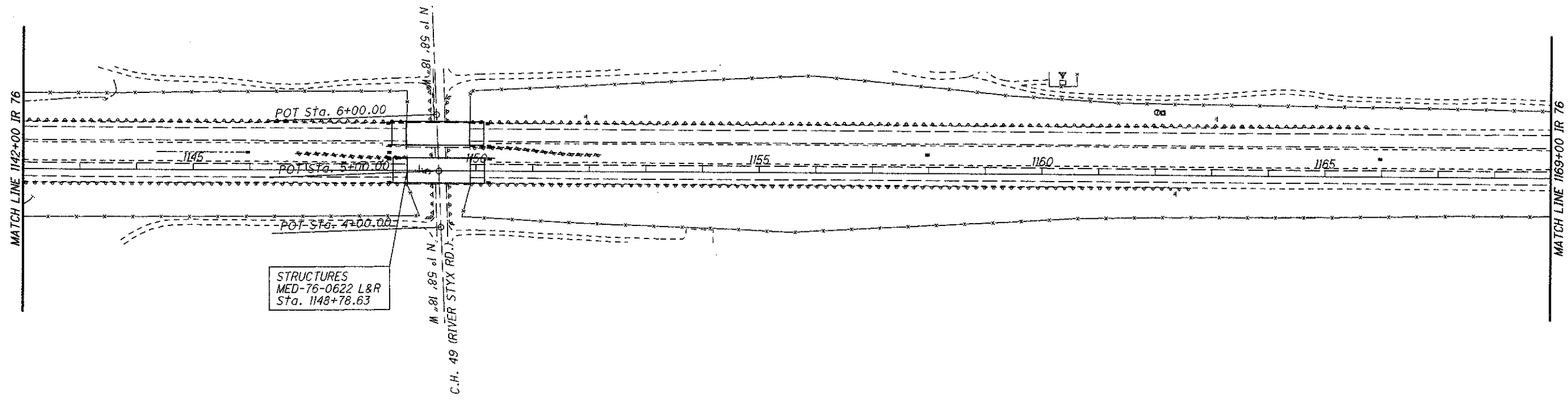
CALCULATED  
MJS  
CHECKED  
BAD

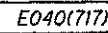


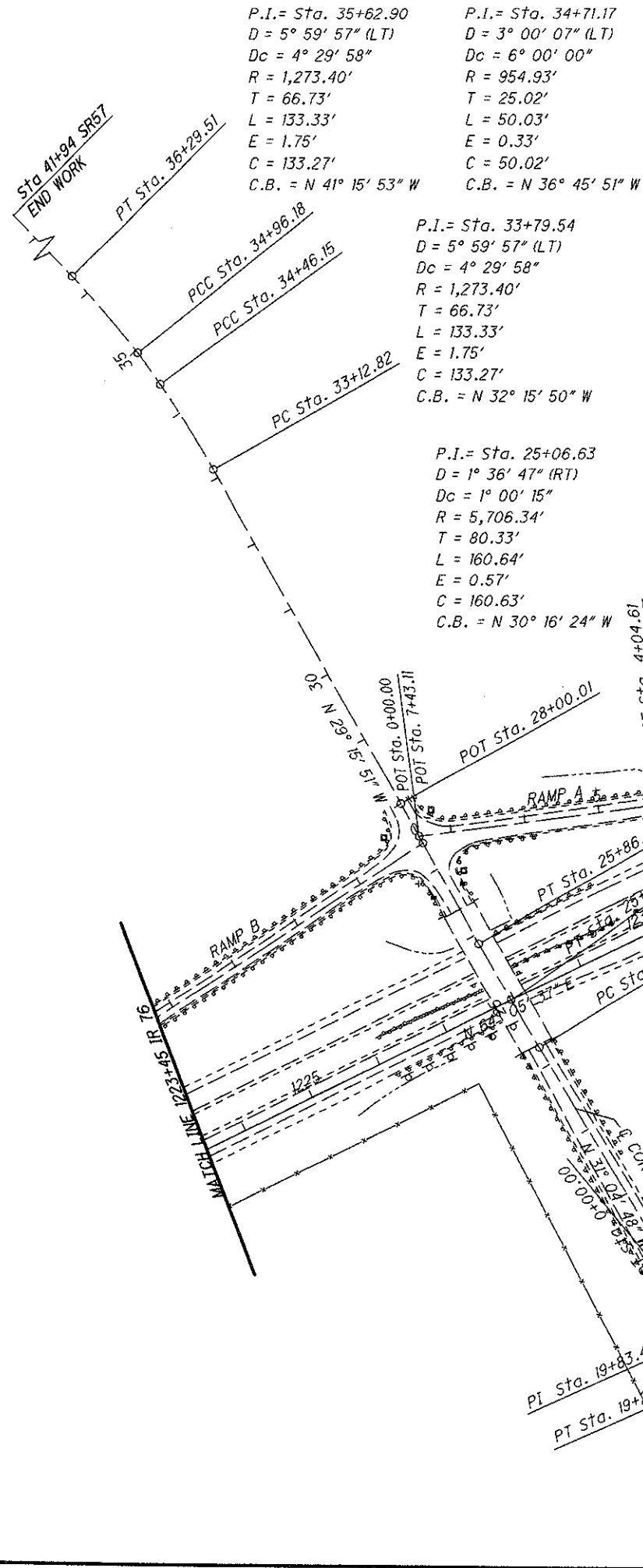


P.I. = Sta. 1044+52.00  
D = 1° 12' 45" (LT)  
Dc = 0° 10' 00"  
R = 34,377.47'  
T = 363.76'  
L = 727.50'  
E = 1.92'  
C = 727.49'  
C.B. = S 88° 51' 35" E

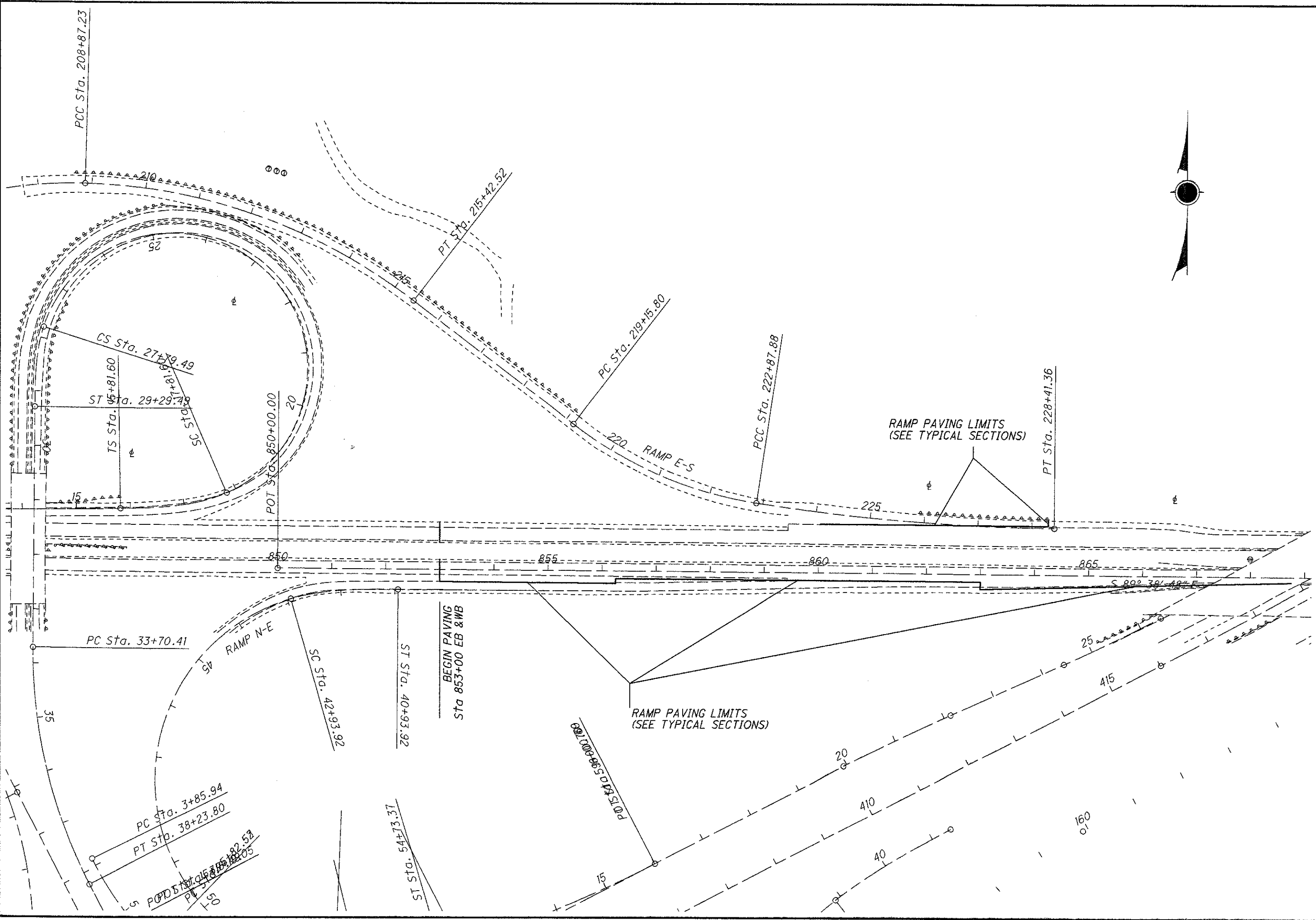


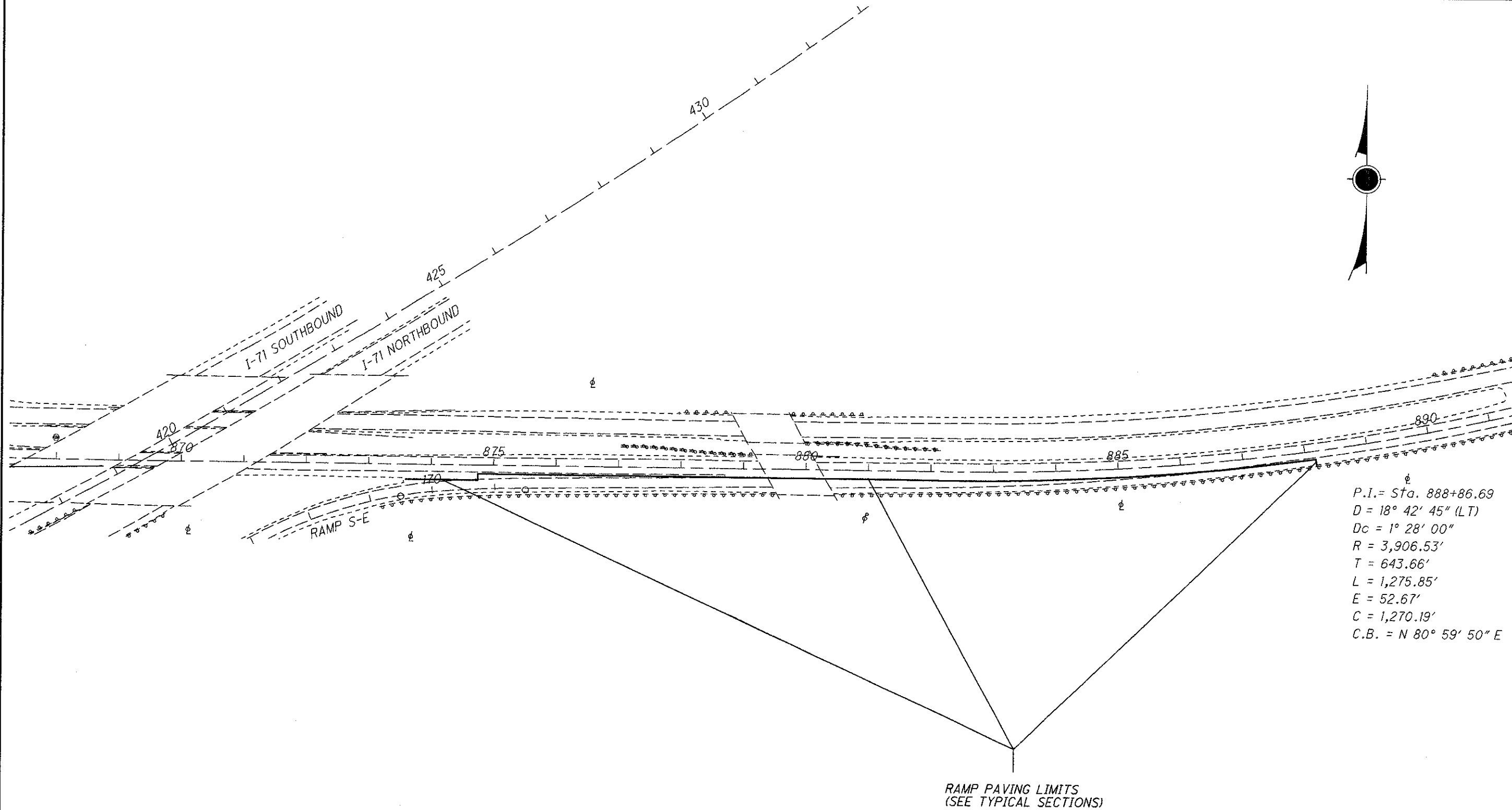




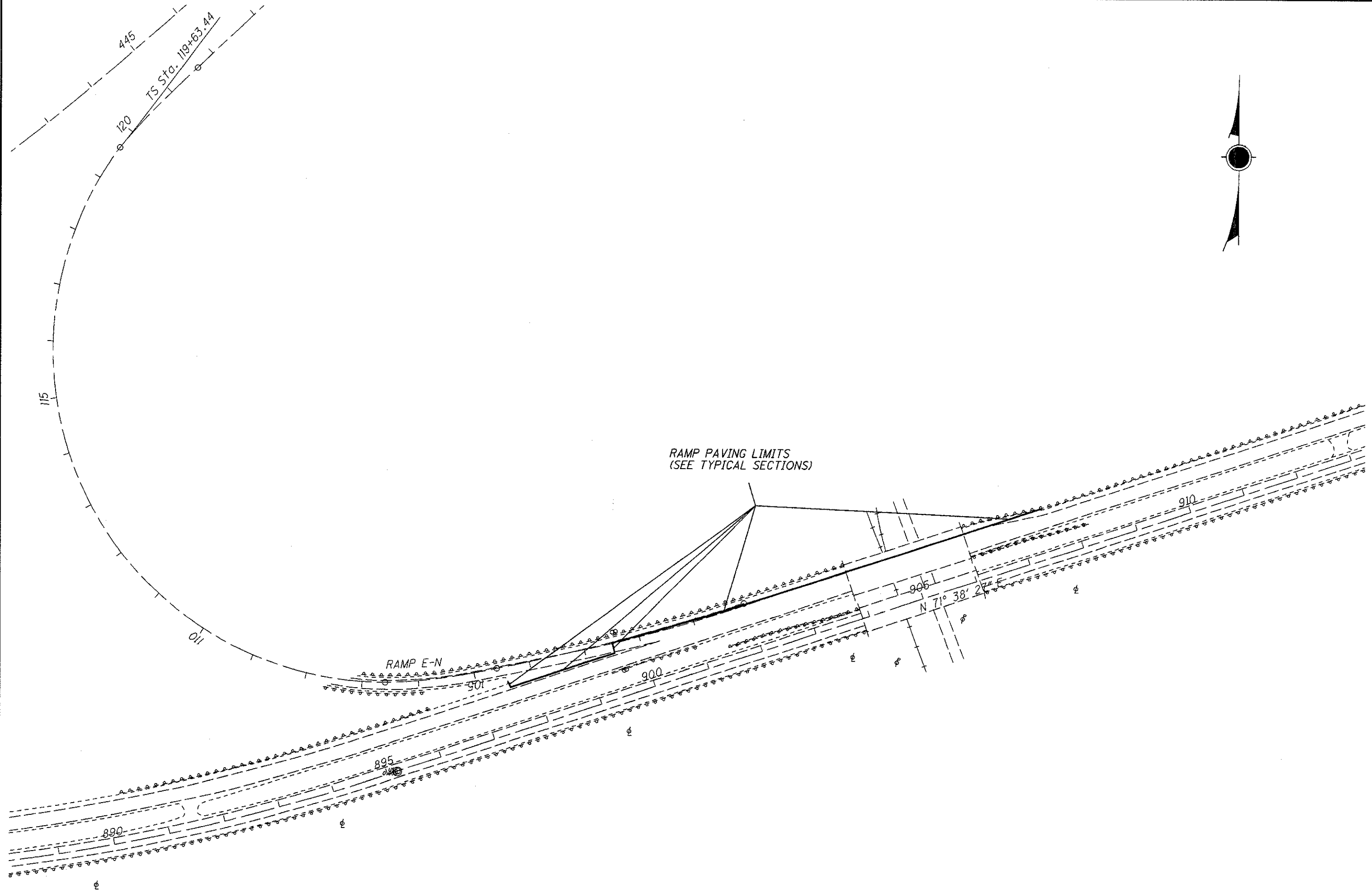


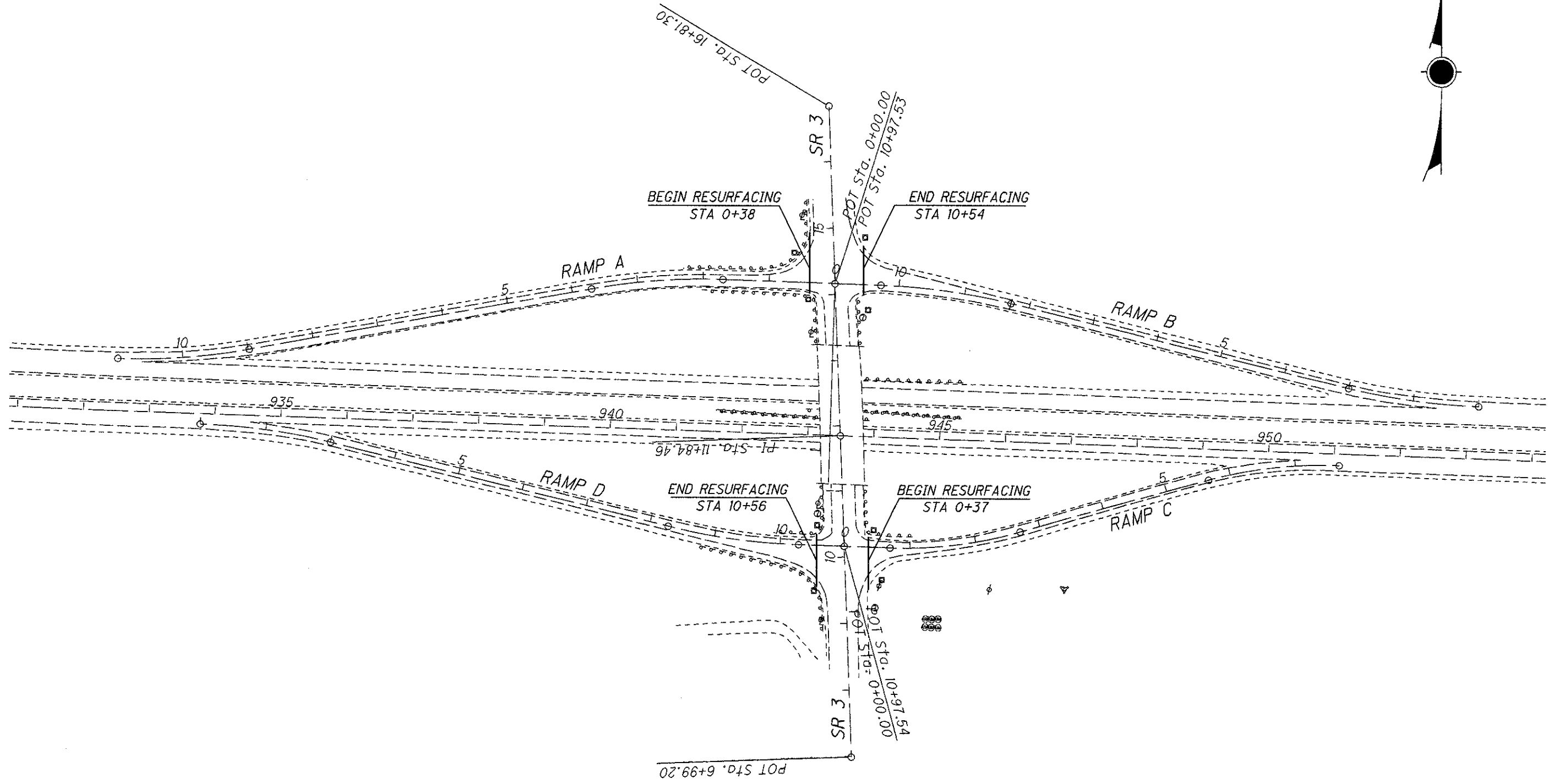
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WORKSTATION: mschafra DATE: 10/9/2009



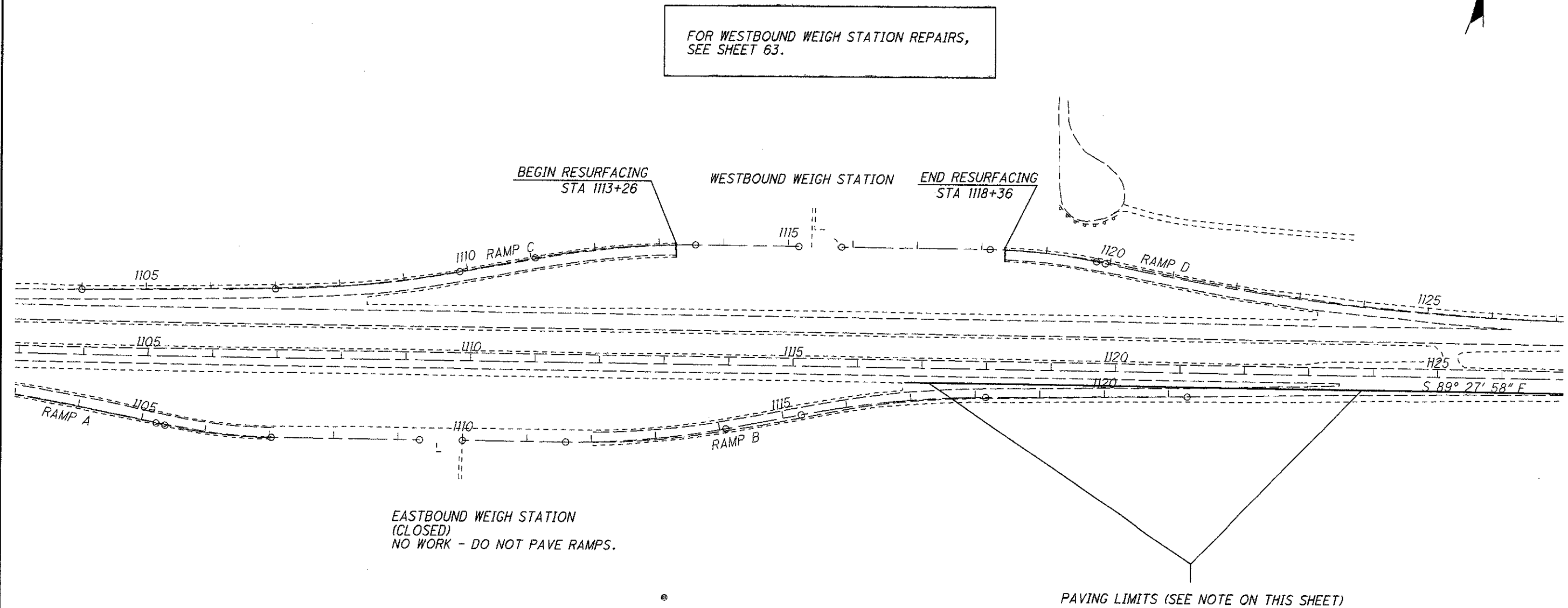


|                        |         |     |
|------------------------|---------|-----|
| CALCULATED             | MJS     |     |
|                        | CHECKED | BAD |
| RAMP S-E PAVING LIMITS |         |     |
| MED-76-0.61            |         |     |
| 12<br>138              |         |     |

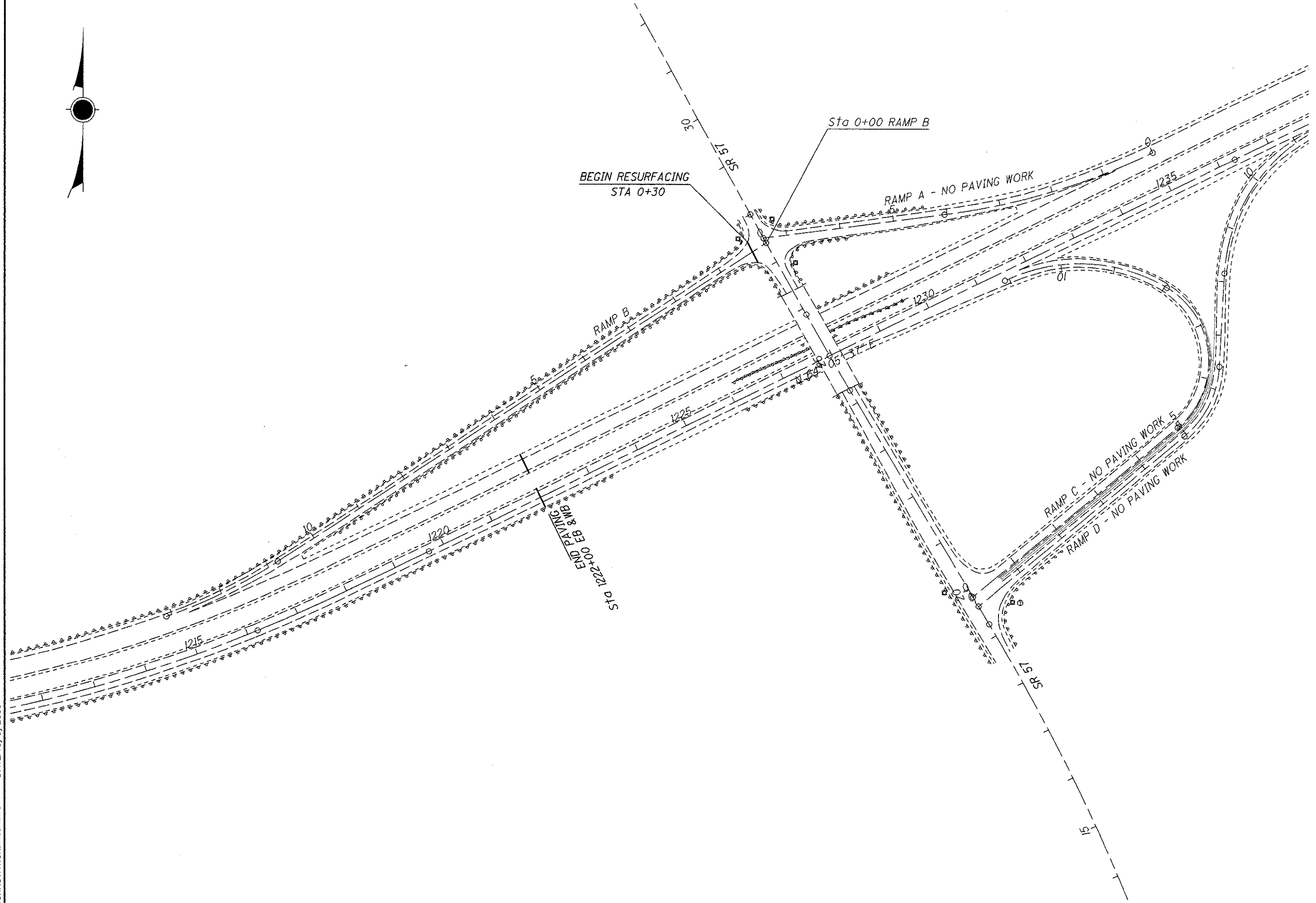




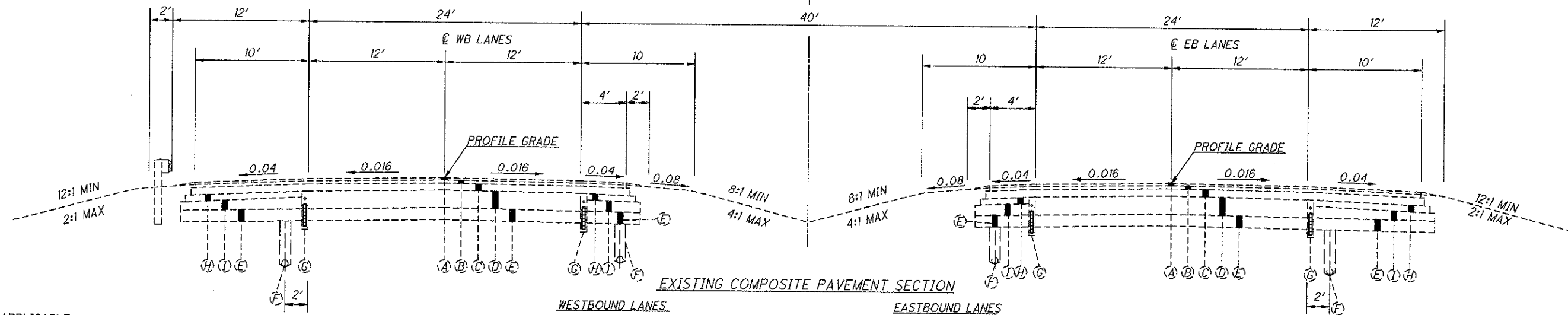
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WORKSTATION: mschafra DATE: 10/9/2009



NOTE:  
PAVE 10 FT WIDE RIGHT SHOULDER THROUGH  
RAMPS A AND B AS IF THEY WERE NOT  
THERE. MATCH THE SURFACE ALONG THE EDGE  
OF THIS PAVEMENT SO THAT WATER CAN  
REACH THE TURF SHOULDER. PLACE RUMBLE  
STRIPS AND EDGE LINE AS IF RAMPS A AND  
B DID NOT EXIST.



§ SURVEY, IR-76



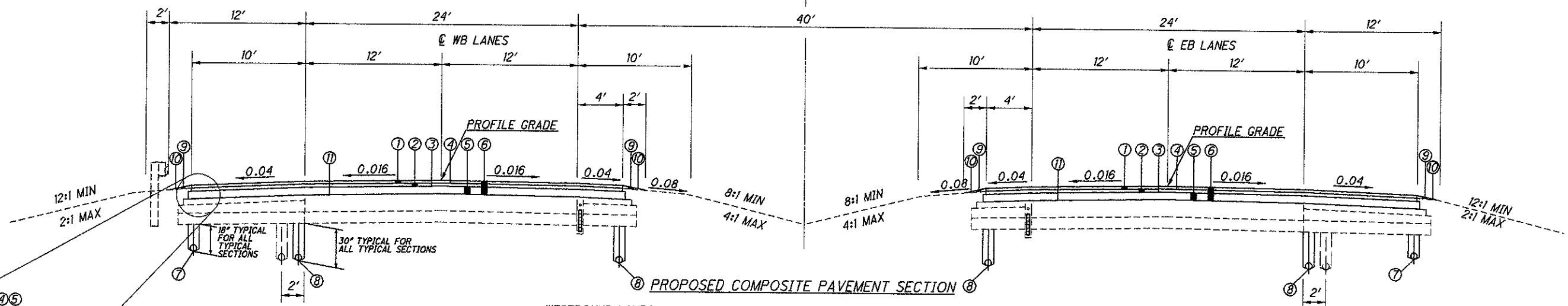
**WESTBOUND LANES**

STA. 853+00 TO STA. 864+25 = 1125.00 L.F.  
 STA. 897+00 TO STA. 898+50 = 150.00 L.F.  
 STA. 912+00 TO STA. 914+00 = 200.00 L.F.  
 STA. 931+75 TO STA. 977+95.75 = 4,620.75 L.F.  
 STA. 979+44.75 TO STA. 1148+55.60 = 16,910.85 L.F.  
 STA. 1150+17.60 TO STA. 1184+10.16 = 3,392.56 L.F.  
 STA. 1185+46.26 TO STA. 1202+23.00 = 1676.74 L.F.  
 STA. 1220+45.00 TO STA. 1222+00.00 = 155.00 L.F.  
**TOTAL = 28230.90 L.F.**

**EASTBOUND LANES**

STA. 853+00 TO STA. 863+00 = 1000.00 L.F.  
 STA. 875+50 TO STA. 879+04.63 = 354.63 L.F.  
 STA. 897+00 TO STA. 898+50 = 150.00 L.F.  
 STA. 912+00 TO STA. 914+00 = 200.00 L.F.  
 STA. 931+75 TO STA. 939+50 = 775.00 L.F.  
 STA. 949+00 TO STA. 977+95.75 = 2,895.75 L.F.  
 STA. 979+44.75 TO STA. 1148+57.20 = 16,912.45 L.F.  
 STA. 1150+19.20 TO STA. 1184+33.45 = 3,414.25 L.F.  
 STA. 1185+69.55 TO STA. 1202+23.00 = 1653.45 L.F.  
 STA. 1220+45.00 TO STA. 1222+00.00 = 155.00 L.F.  
**TOTAL = 27510.53 L.F.**

§ SURVEY, IR-76



**WESTBOUND LANES**

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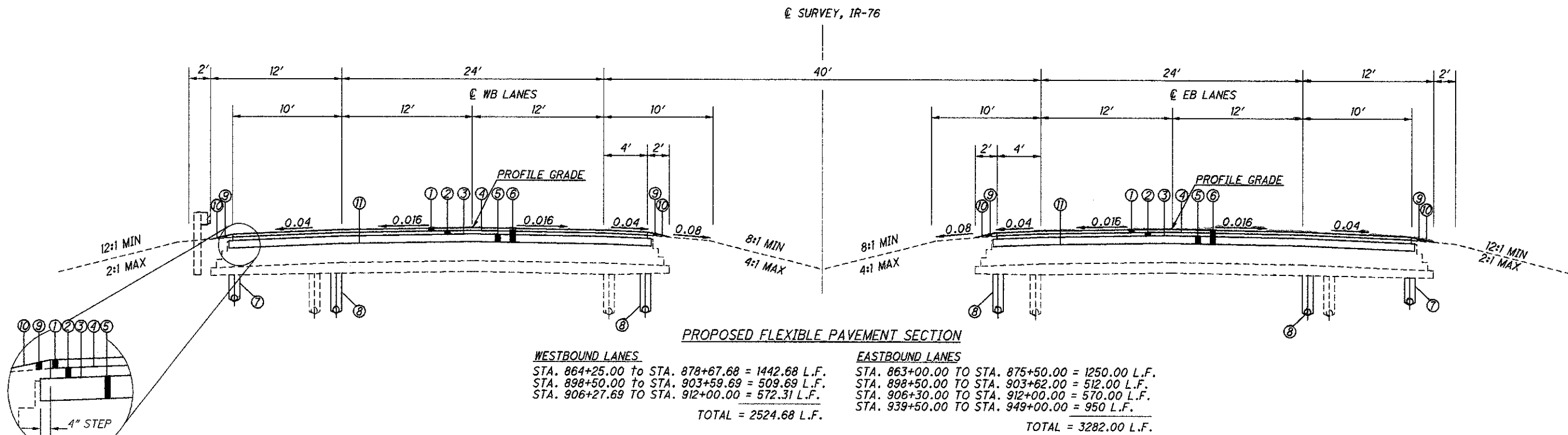
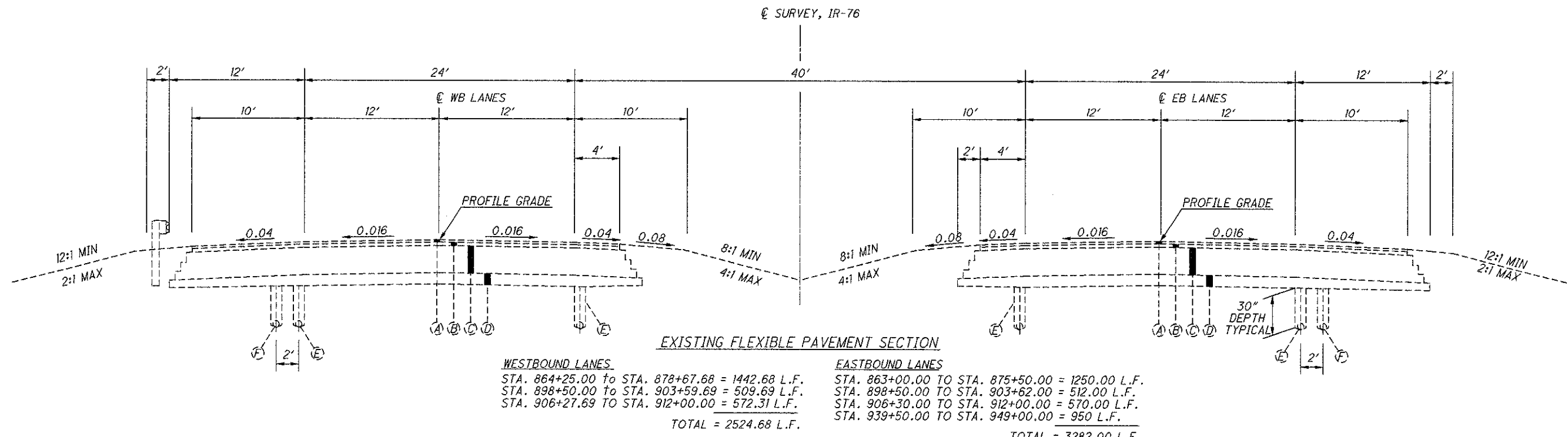
**LEGEND - PROPOSED**

- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 1.75" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
- ③ ITEM 407, TACK COAT
- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 4.00" ITEM 301 ASPHALT CONCRETE BASE, PG64-28 AS PER PLAN
- ⑥ 7.00" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- ⑦ 6" BASE PIPE UNDERDRAINS, AS PER PLAN, 707.31 18" (MAXIMUM DEPTH)
- ⑧ 6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN, 707.31
- ⑨ ITEM 617, COMPACTED AGGREGATE, AS PER PLAN
- ⑩ ITEM 408 PRIME COAT
- ⑪ ITEM 407 TACK COAT, 702.13

**LEGEND - EXISTING**

- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T = 1 1/4")
- Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T = 1 3/4")
- Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
- Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
- Ⓔ EXISTING 6" ± SUBBASE
- Ⓕ EXISTING 6" UNDERDRAIN
- Ⓖ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)
- Ⓗ EXISTING VAR. THICKNESS (3" OR GREATER) BITUM. AGGREGATE BASE
- Ⓘ EXISTING AGGREGATE BASE (INSIDE SHOULDER: T = 4 3/4"; OUTSIDE SHOULDER: T = 3")

DESIGN FILE: I:\projects\77475\roadway\sheet\77475GY001.dgn  
WORKSTATION:mschafra DATE:10/9/2009



SHOULDER DETAIL

LEGEND - PROPOSED

- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 1.75" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
- ③ ITEM 407, TACK COAT
- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 4.00" ITEM 301 ASPHALT CONCRETE BASE, PG64-28, AS PER PLAN
- ⑥ 7.00" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- ⑦ 6" BASE PIPE UNDERDRAINS, AS PER PLAN, 707.31 18" (MAXIMUM DEPTH)
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- ⑩ ITEM 408 PRIME COAT
- ⑪ ITEM 407 TACK COAT, 702.13

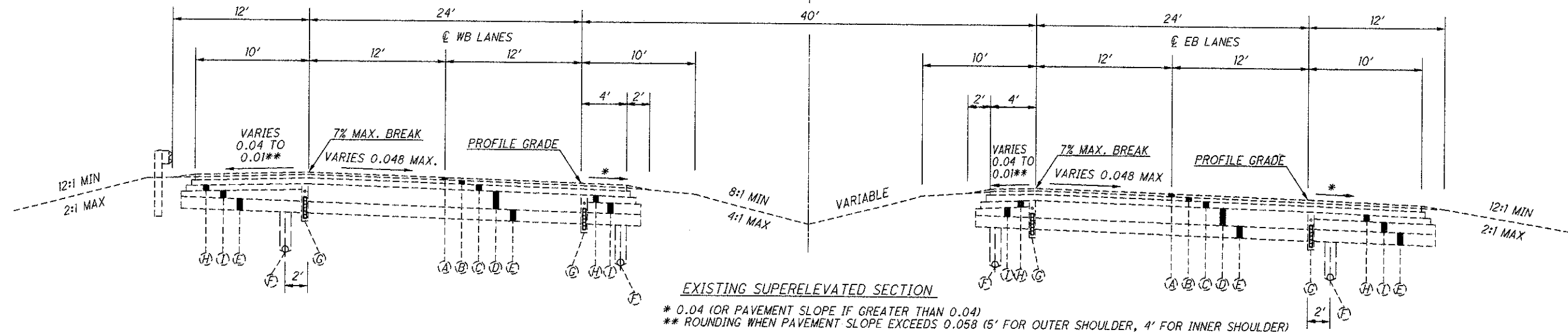
LEGEND - EXISTING

- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
- Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
- Ⓒ EXISTING 14" BITUMINOUS AGGREGATE BASE
- Ⓓ EXISTING 6" AGGREGATE BASE
- Ⓔ EXISTING 4" SHALLOW PIPE UNDERDRAIN
- Ⓕ EXISTING 6" UNDERDRAIN

TYPICAL SECTIONS

MED-76-0.61

§ SURVEY, IR-76



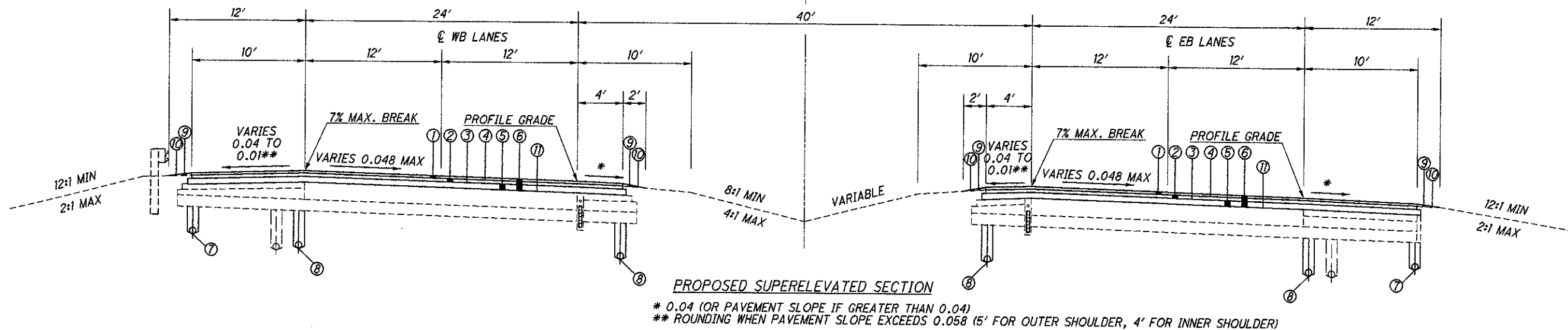
**WESTBOUND LANES**

STA. 880+10.42 TO STA. 897+00 = 1689.58 L.F.  
 STA. 914+00 TO STA. 931+75 = 1775 L.F.  
 STA. 1202+23.00 TO STA. 1220+45.00 = 1822.00 L.F.  
 TOTAL = 5286.58 L.F.

**EASTBOUND LANES**

STA. 880+47.37 TO STA. 897+00 = 1652.63 L.F.  
 STA. 914+00 TO STA. 931+75 = 1775 L.F.  
 STA. 1202+23.00 TO STA. 1220+45.00 = 1822.00 L.F.  
 TOTAL = 5249.63 L.F.

§ SURVEY, IR-76



**WESTBOUND LANES**

STA. 880+10.42 TO STA. 897+00 = 1689.58 L.F.  
 STA. 914+00 TO STA. 931+75 = 1775 L.F.  
 STA. 1202+23.00 TO STA. 1220+45.00 = 1822.00 L.F.  
 TOTAL = 5286.58 L.F.

**EASTBOUND LANES**

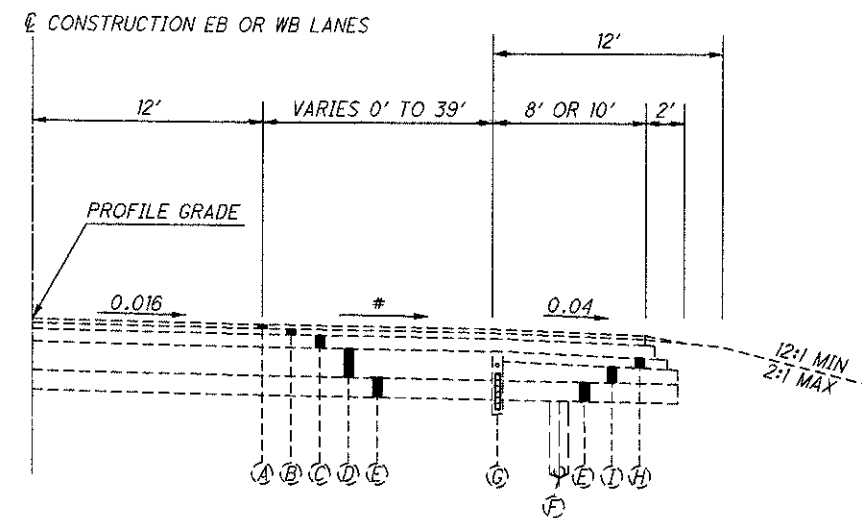
STA. 880+47.37 TO STA. 897+00 = 1652.63 L.F.  
 STA. 914+00 TO STA. 931+75 = 1775 L.F.  
 STA. 1202+23.00 TO STA. 1220+45.00 = 1822.00 L.F.  
 TOTAL = 5249.63 L.F.

**LEGEND - PROPOSED**

- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 1.75" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
- ③ ITEM 407, TACK COAT
- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 4.00" ITEM 301 ASPHALT CONCRETE BASE, PG64-28, AS PER PLAN
- ⑥ 7.00" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- ⑦ 6" BASE PIPE UNDERDRAINS, AS PER PLAN, 707.31 18" (MAXIMUM DEPTH)
- ⑧ 6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN, 707.31
- ⑨ ITEM 617, COMPACTED AGGREGATE, AS PER PLAN
- ⑩ ITEM 408 PRIME COAT
- ⑪ ITEM 407 TACK COAT, 702.13

**LEGEND - EXISTING**

- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
- Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
- Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
- Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
- Ⓔ EXISTING 6" ± SUBBASE
- Ⓕ EXISTING 6" UNDERDRAIN
- Ⓖ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)
- Ⓗ EXISTING VARIABLE THICKNESS (3" OR GREATER) BITUMINOUS AGGREGATE BASE
- Ⓘ EXISTING AGGREGATE BASE (T= 6" UNLESS NOTED)



### EXISTING SPEED CHANGE LANE SECTION

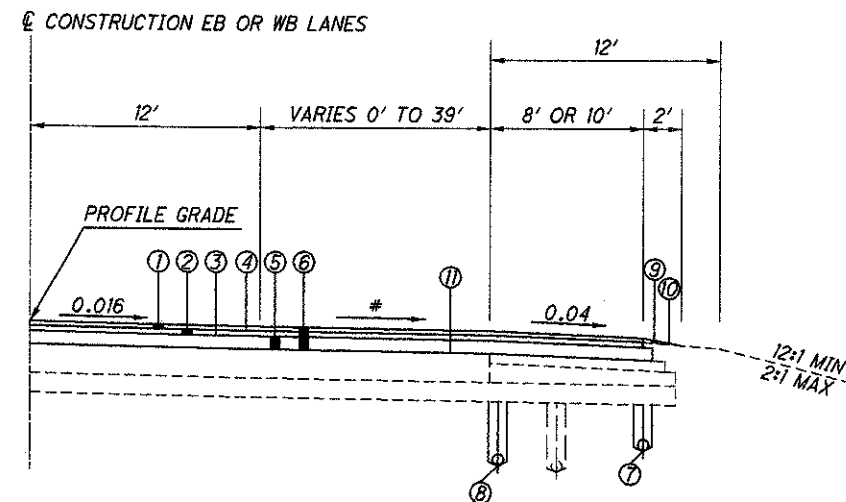
\*SAME AS MAINLINE PAVEMENT OR EXISTING RAMP SUPERELEVATION

#### WESTBOUND LANES

STA. 930+46.00 TO STA. 934+48.18 = 402.18 L.F. (RAMP "A" S.R.3)  
 STA. 954+16.60 TO STA. 959+31.00 = 514.40 L.F. (RAMP "B" S.R.3)  
 TOTAL = 916.58 L.F.

#### EASTBOUND LANES

STA. 931+75.00 TO STA. 936+04.38 = 429.38 L.F. (RAMP "D" S.R.3)  
 STA. 949+10.64 TO STA. 962+04.00 = 1293.36 L.F. (RAMP "C" S.R.3)  
 TOTAL = 1722.74 L.F.



### PROPOSED SPEED CHANGE LANE SECTION

\*SAME AS MAINLINE PAVEMENT OR EXISTING RAMP SUPERELEVATION

#### WESTBOUND LANES

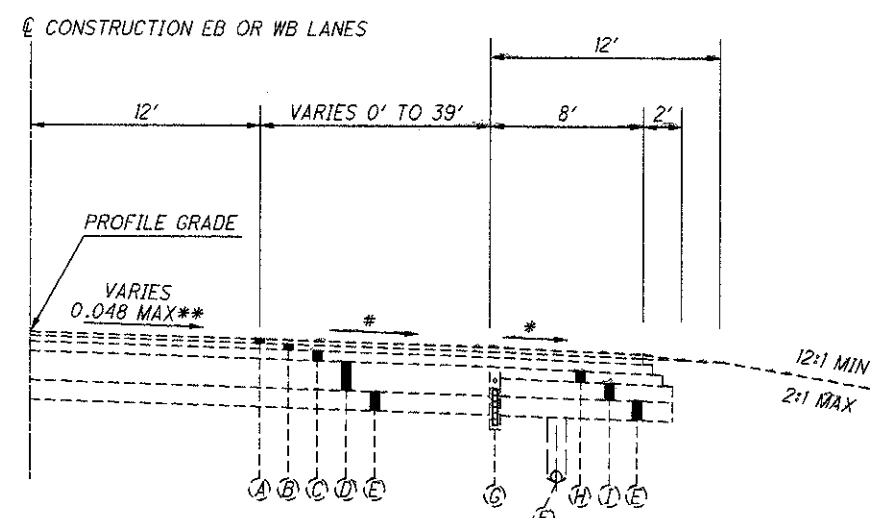
STA. 930+46.00 TO STA. 934+78.18 = 432.18 L.F. (RAMP "A" S.R.3)  
 STA. 954+16.60 TO STA. 959+31.00 = 514.40 L.F. (RAMP "B" S.R.3)  
 STA. 1092+00.00 TO STA. 1105+75.00 = 1375 L.F. (RAMP "C" WEIGH STATION)  
 STA. 1123+14.59 TO STA. 1131+16.06 = 801.47 L.F. (RAMP "D" WEIGH STATION)  
 TOTAL = 1748.05 L.F.

#### EASTBOUND LANES

STA. 931+75.00 TO STA. 936+04.38 = 429.38 L.F. (RAMP "D" S.R.3)  
 STA. 949+22.32 TO STA. 962+04.00 = 1281.68 L.F. (RAMP "C" S.R.3)  
 TOTAL = 1711.06 L.F.

#### LEGEND - PROPOSED

- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 1.75" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
- ③ ITEM 407, TACK COAT
- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 4.00" ITEM 301 ASPHALT CONCRETE BASE, PG64-28 AS PER PLAN
- ⑥ 7.00" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- ⑦ 6" BASE PIPE UNDERDRAINS, AS PER PLAN, 707.31 18" (MAXIMUM DEPTH)
- ⑧ 6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN, 707.31
- ⑨ ITEM 617, COMPACTED AGGREGATE, AS PER PLAN
- ⑩ ITEM 408 PRIME COAT
- ⑪ ITEM 407 TACK COAT, 702.13



### EXISTING SUPERELEVATED SPEED CHANGE LANE SECTION

\* 0.04 (OR PAVEMENT SLOPE IF GREATER THAN 0.04)

\*\* MAX PAVEMENT SLOPE FOR SR-57 RAMP "B" SPEED CHANGE LANE EXCEEDS .048

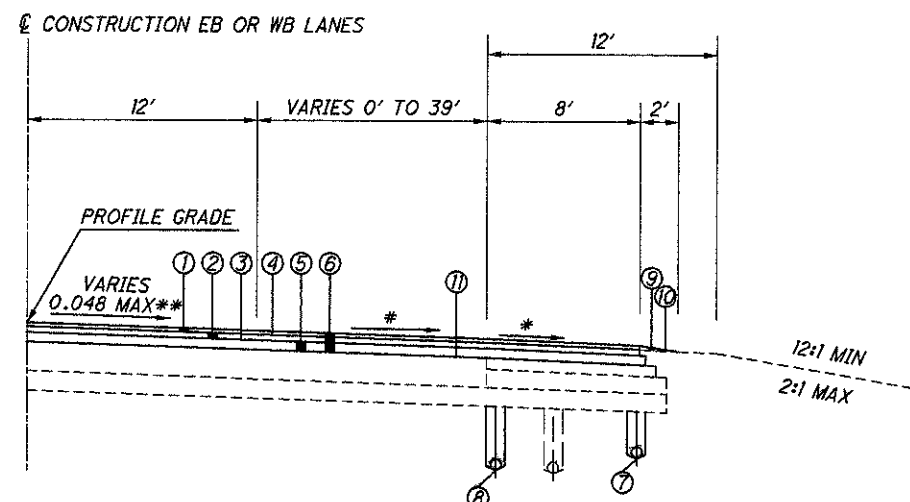
\*SAME AS MAINLINE PAVEMENT OR EXISTING RAMP SUPERELEVATION

#### WESTBOUND LANES

STA. 953+16.60 TO STA. 954+16.60 = 100.00 L.F. (RAMP "B" S.R.3)  
 STA. 1203+84.00 TO STA. 1217+54.83 = 1370.83 L.F. (RAMP "B" S.R.57)  
 TOTAL = 1470.83 L.F.

#### EASTBOUND LANES

STA. 927+64.00 TO STA. 931+75.00 = 411.00 L.F. (RAMP "D" S.R.3)  
 TOTAL = 411.00 L.F.



### PROPOSED SUPERELEVATED SPEED CHANGE LANE SECTION

\* 0.04 (OR PAVEMENT SLOPE IF GREATER THAN 0.04)

\*\* MAX PAVEMENT SLOPE FOR SR-57 RAMP "B" SPEED CHANGE LANE EXCEEDS .048

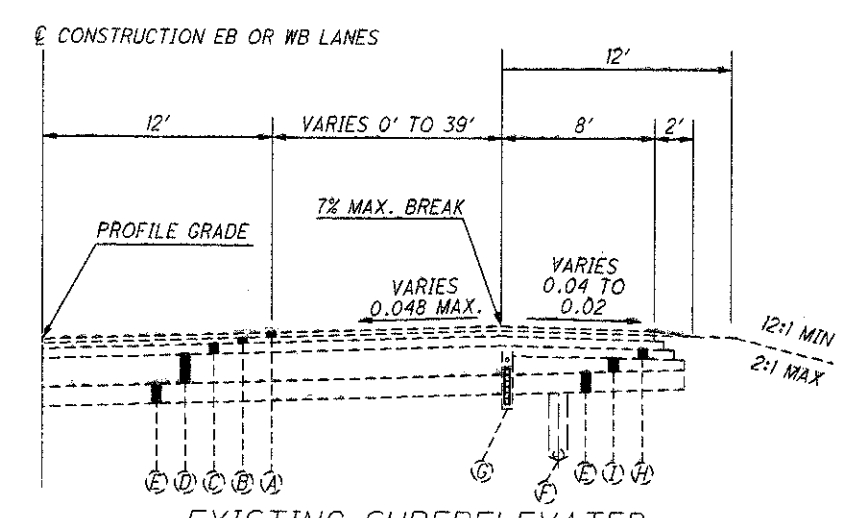
\*SAME AS MAINLINE PAVEMENT OR EXISTING RAMP SUPERELEVATION

#### WESTBOUND LANES

STA. 950+90.05 TO STA. 954+16.60 = 326.55 L.F. (RAMP "B" S.R.3)  
 STA. 1203+84.00 TO STA. 1214+70.00 = 1086.00 L.F. (RAMP "B" S.R.57)  
 STA. 1105+75.00 TO STA. 1108+40.00 = 265.00 L.F. (RAMP "C" WEIGH STATION, RAMP CROSS SLOPE IN OPPOSITE DIRECTION FROM SHOWN)  
 TOTAL = 1677.55 L.F.

#### EASTBOUND LANES

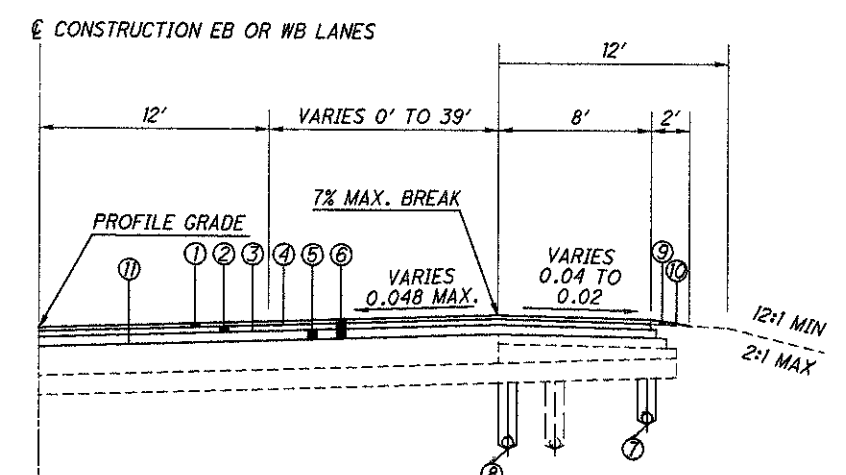
STA. 927+64.00 TO STA. 931+75.00 = 411.00 L.F. (RAMP "D" S.R.3)  
 TOTAL = 411.00 L.F.



### EXISTING SUPERELEVATED SPEED CHANGE LANE SECTION

#### WESTBOUND LANES

STA. 921+81.00 TO 930+46.00 = 865.00 L.F. (RAMP "A" S.R.3)  
 TOTAL = 865.00 L.F.



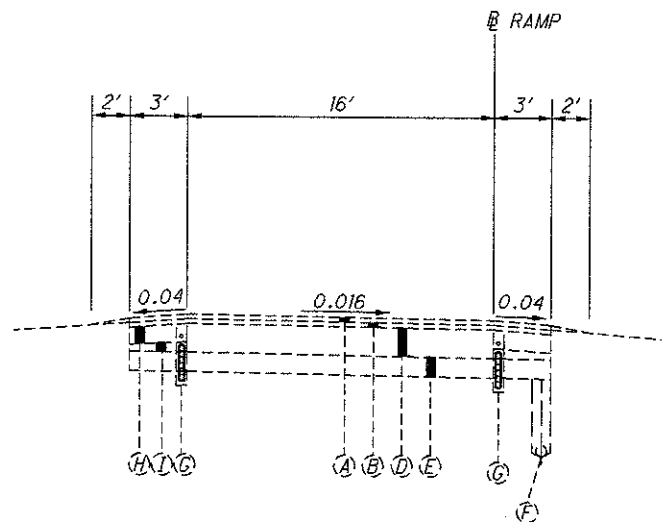
### PROPOSED SUPERELEVATED SPEED CHANGE LANE SECTION

#### WESTBOUND LANES

STA. 921+81.00 TO 930+46.00 = 865.00 L.F. (RAMP "A" S.R.3)  
 TOTAL = 865.00 L.F.

#### LEGEND - EXISTING

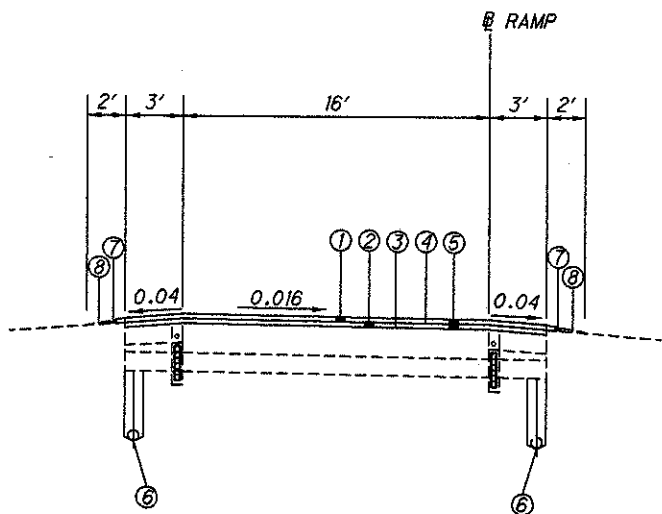
- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
- Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
- Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
- Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
- Ⓔ EXISTING 6" ± SUBBASE
- Ⓕ EXISTING 6" BASE PIPE UNDERDRAIN
- Ⓖ EXISTING SHALLOW UNDERDRAIN
- Ⓗ EXISTING 3" BITUMINOUS AGGREGATE BASE
- Ⓘ EXISTING AGGREGATE BASE (T= 6" UNLESS NOTED )



### WESTBOUND EXISTING RAMP SECTION

\*STA. 1110+50.00 TO STA. 1113+26.00 = 276.00 L.F. (RAMP "C" WEIGH STATION)  
 \*STA. 1119+80.00 TO STA. 1123+14.59 = 334.59 L.F. (RAMP "D" WEIGH STATION)  
 \*STA. 1118+36.00 TO STA. 1119+80.00 = 144.00 L.F. (RAMP "D" WEIGH STATION)  
 TOTAL = 754.59 L.F.

\*PAVEMENT SLOPE VARIES FROM 1119+80 TO 1121+00  
 \*PAVEMENT SLOPE VARIES FROM 1110+50.00 TO 1111+50.00  
 \*\*PAVEMENT SLOPE VARIES FROM 1118+50.00 TO 1119+80.00



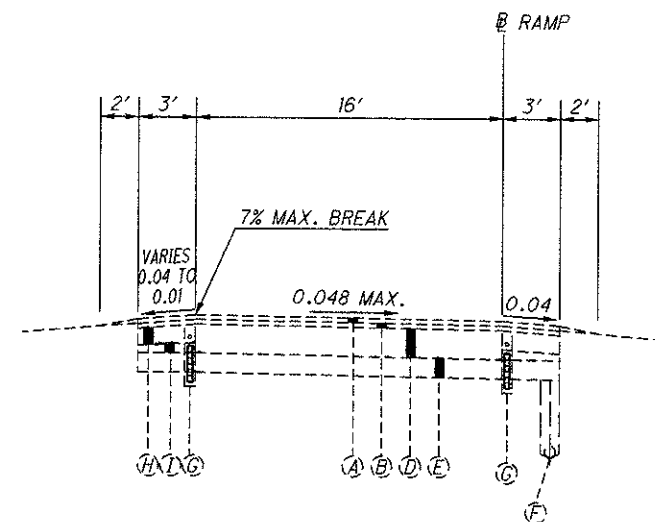
### WESTBOUND PROPOSED RAMP SECTION

\*RAMP "C" (WEIGH STATION) STA. 1110+50.00 TO STA. 1113+26.00 = 276.00 L.F. (RAMP CROSS SLOPE IN OPPOSITE DIRECTION FROM SHOWN)  
 \*RAMP "D" (WEIGH STATION) STA. 1119+80.00 TO STA. 1123+14.59 = 334.59 L.F.  
 \*RAMP "D" (WEIGH STATION) STA. 1118+36.00 TO STA. 1119+80.00 = 144.00 L.F. (RAMP CROSS SLOPE IN OPPOSITE DIRECTION FROM SHOWN)  
 TOTAL = 754.59 L.F.

\*PAVEMENT SLOPE VARIES FROM 1119+80 TO 1121+00  
 \*PAVEMENT SLOPE VARIES FROM 1110+50.00 TO 1111+50.00  
 \*\*PAVEMENT SLOPE VARIES FROM 1118+50.00 TO 1119+80.00

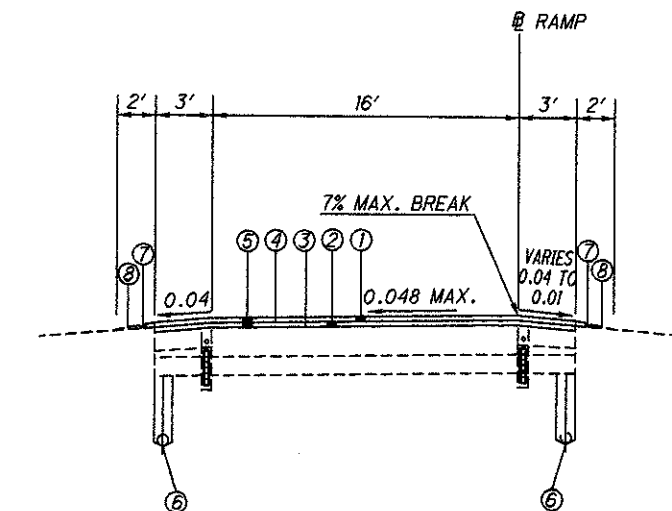
#### LEGEND - PROPOSED

- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 2.50" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
- ③ ITEM 407, TACK COAT, 702.13
- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 4.00" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- ⑥ 6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN, 707.31
- ⑦ ITEM 617, COMPACTED AGGREGATE, AS PER PLAN
- ⑧ ITEM 408 PRIME COAT



### EXISTING SUPERELEVATED RAMP SECTION

RAMP "C" (WEIGH STATION) STA. 1105+75.00 TO STA. 1110+50.00 = 475.00 L.F.  
 TOTAL = 475.00 L.F.

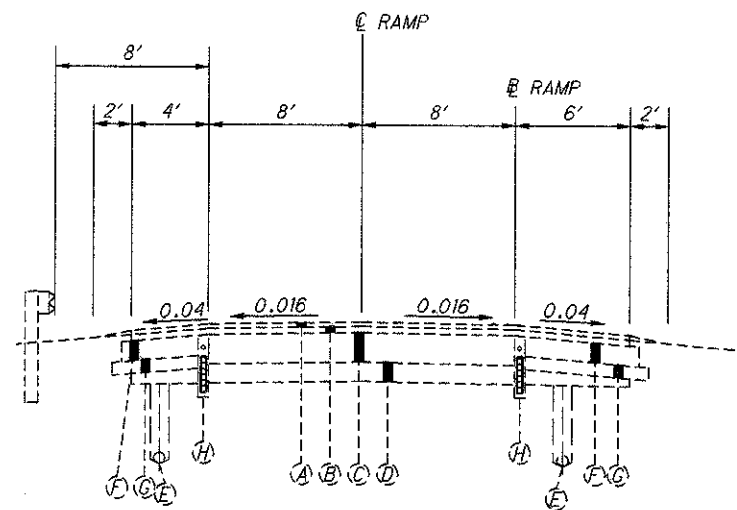


### PROPOSED SUPERELEVATED RAMP SECTION

RAMP "C" (WEIGH STATION) STA. 1108+40.00 TO STA. 1110+50.00 = 210.00 L.F.  
 TOTAL = 210.00 L.F.

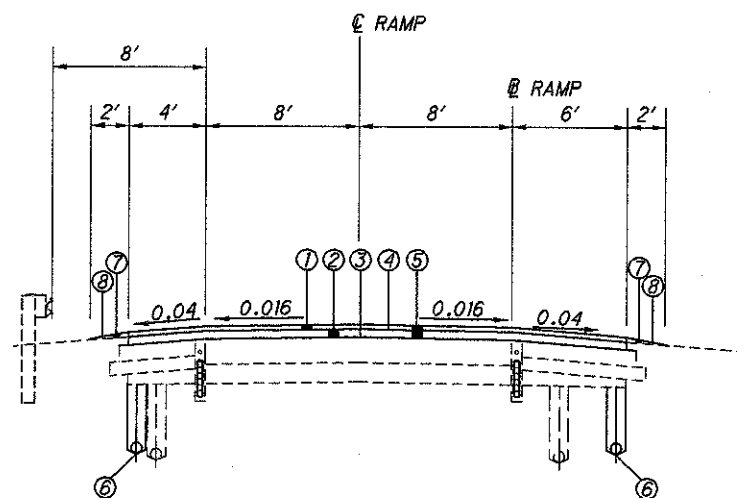
#### LEGEND - EXISTING

- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
- Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 2 3/4")
- Ⓒ NOT USED
- Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
- Ⓔ EXISTING 6" ± SUBBASE
- Ⓕ EXISTING 6" UNDERDRAIN
- Ⓖ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)
- Ⓗ EXISTING 6" BITUMINOUS AGGREGATE BASE
- Ⓘ EXISTING 3" AGGREGATE BASE



### EXISTING RAMP SECTION

S.R. 3 RAMP "A" STA. 3+50.00 TO STA. 8+00.00 = 450.00 L.F.  
 S.R. 3 RAMP "B" STA. 5+25.00 TO STA. 7+50.00 = 225.00 L.F.  
 S.R. 3 RAMP "D" STA. 4+00.00 TO STA. 8+00.00 = 400.00 L.F.  
 TOTAL = 1075.00 L.F.

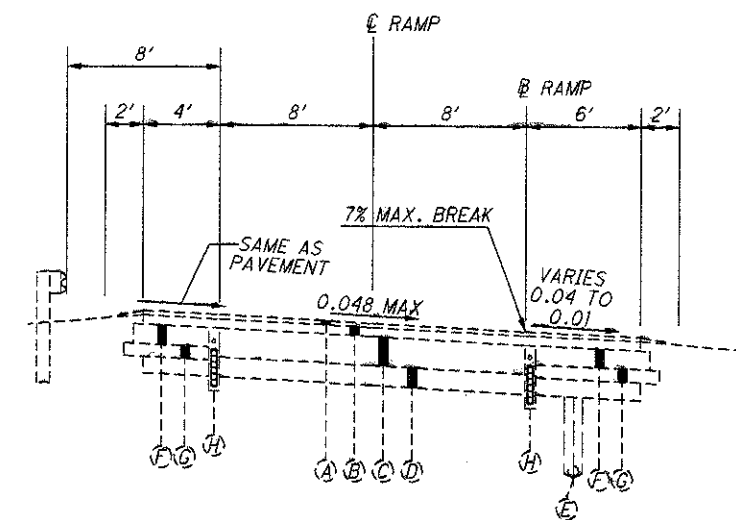


### PROPOSED RAMP SECTION

S.R. 3 RAMP "A" STA. 3+50.00 TO STA. 8+00.00 = 450.00 L.F.  
 S.R. 3 RAMP "B" STA. 5+25.00 TO STA. 7+50.00 = 225.00 L.F.  
 S.R. 3 RAMP "D" STA. 4+00.00 TO STA. 8+00.00 = 400.00 L.F.  
 TOTAL = 1075.00 L.F.

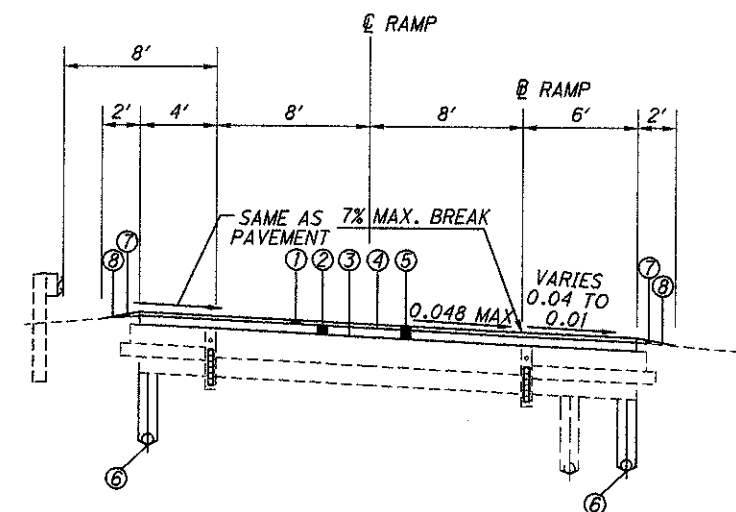
#### LEGEND - PROPOSED

- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 2.50" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
- ③ ITEM 407, TACK COAT, 702.13
- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 4.00" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- ⑥ 6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN, 707.31
- ⑦ ITEM 617, COMPACTED AGGREGATE, AS PER PLAN
- ⑧ ITEM 408 PRIME COAT



### EXISTING RAMP SECTION

S.R. 3 RAMP "A" STA. 0+38.00 TO STA. 3+50.00 = 312.00 L.F.  
 S.R. 3 RAMP "A" STA. 8+00.00 TO STA. 8+98.35 = 98.35 L.F.  
 S.R. 3 RAMP "B" STA. 0+00.00 TO STA. 5+25.00 = 525.00 L.F.  
 S.R. 3 RAMP "B" STA. 7+50.00 TO STA. 10+54.00 = 304.00 L.F.  
 S.R. 3 RAMP "C" STA. 0+37.00 TO STA. 7+58.16 = 721.16 L.F.  
 S.R. 3 RAMP "D" STA. 3+29.00 TO STA. 4+00.00 = 71 L.F.  
 S.R. 3 RAMP "D" STA. 8+00.00 TO STA. 10+56.00 = 256.00 L.F.  
 TOTAL = 2287.51 L.F.

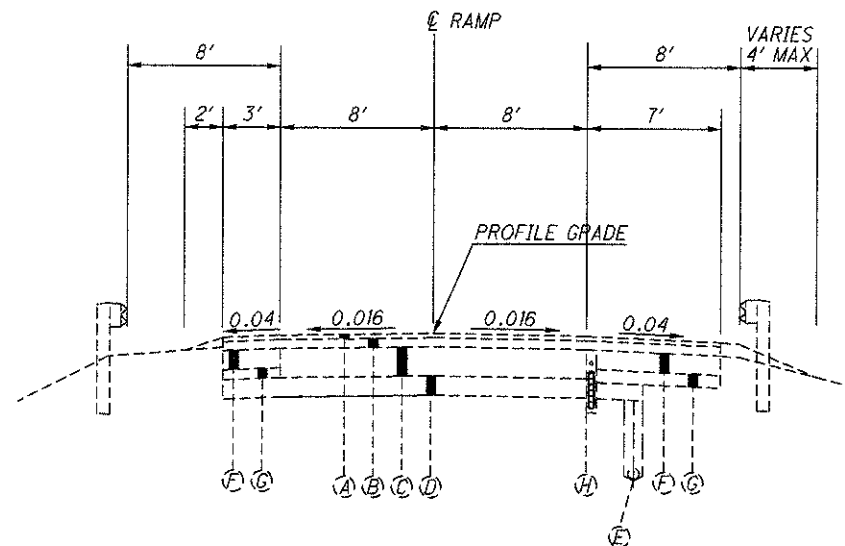


### PROPOSED RAMP SECTION

S.R. 3 RAMP "A" STA. 0+38.00 TO STA. 3+50.00 = 312.00 L.F.  
 S.R. 3 RAMP "A" STA. 8+00.00 TO STA. 8+70.22 = 70.22 L.F.  
 S.R. 3 RAMP "B" STA. 3+30.00 TO STA. 5+25.00 = 195.00 L.F.  
 S.R. 3 RAMP "B" STA. 7+50.00 TO STA. 10+54.00 = 304.00 L.F.  
 S.R. 3 RAMP "C" STA. 0+37.00 TO STA. 5+73.69 = 536.69 L.F.  
 S.R. 3 RAMP "D" STA. 3+29.00 TO STA. 4+00.00 = 71.00 L.F.  
 S.R. 3 RAMP "D" STA. 8+00.00 TO STA. 10+56.00 = 256.00 L.F.  
 TOTAL = 1744.91 L.F.

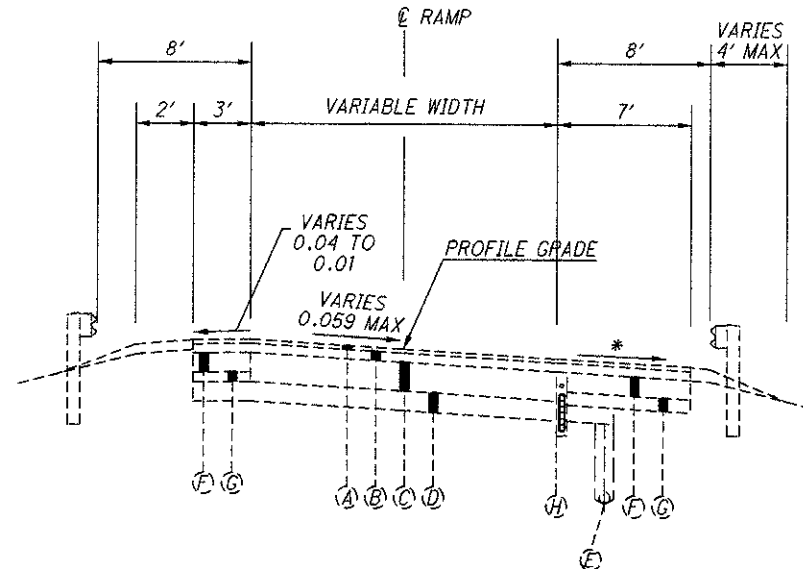
#### LEGEND - EXISTING

- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4)
- Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 2 3/4" RAMP, 1 3/4" SHOULDERS)
- Ⓒ EXISTING 9" REINFORCED CONCRETE PAVEMENT
- Ⓓ EXISTING 6" ± SUBBASE
- Ⓔ EXISTING 6" UNDERDRAIN
- Ⓕ EXISTING 6" BITUMINOUS AGGREGATE BASE
- Ⓖ EXISTING 4" AGGREGATE BASE
- Ⓗ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)



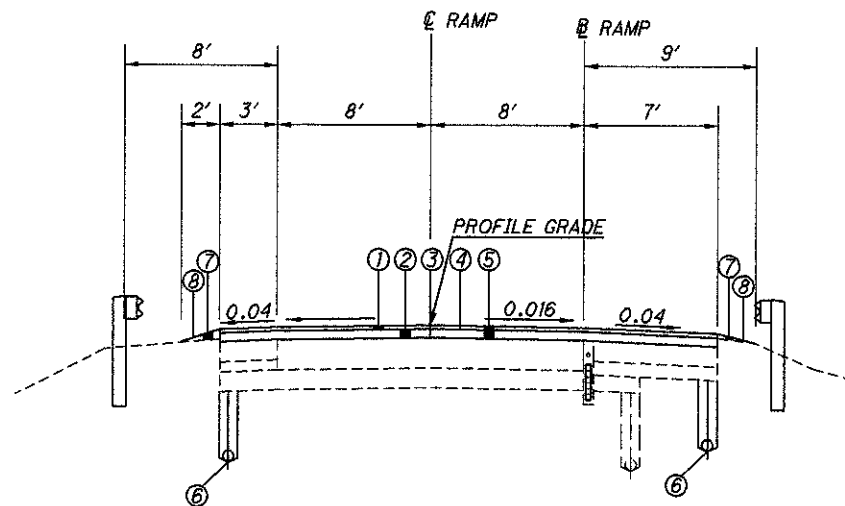
### EXISTING RAMP SECTION

STA. 0+30.00 TO STA. 0+56.00 = 26.00 L.F. (RAMP "B" S.R.57, INT. RETURN AREA)  
 STA. 0+56.00 TO STA. 1+56.00 = 100.00 L.F. (RAMP "B" S.R.57, TAPER AREA)  
 STA. 1+56.00 TO STA. 10+33.59 = 900.00 L.F. (RAMP "B" S.R.57)  
 TOTAL = 1003.59 L.F.



### EXISTING SUPERELEVATED RAMP SECTIONS

\* 0.04 (OR PAVEMENT SLOPE IF GREATER THAN 0.04)  
 STA. 10+33.59 TO STA. 11+08.00 = 74.41 L.F. (RAMP "B" S.R.57)  
 STA. 11+08.00 TO STA. 13+10.89 = 202.89 L.F. (RAMP "B" S.R.57, RAMP GORE AREA)  
 TOTAL = 277.30 L.F.

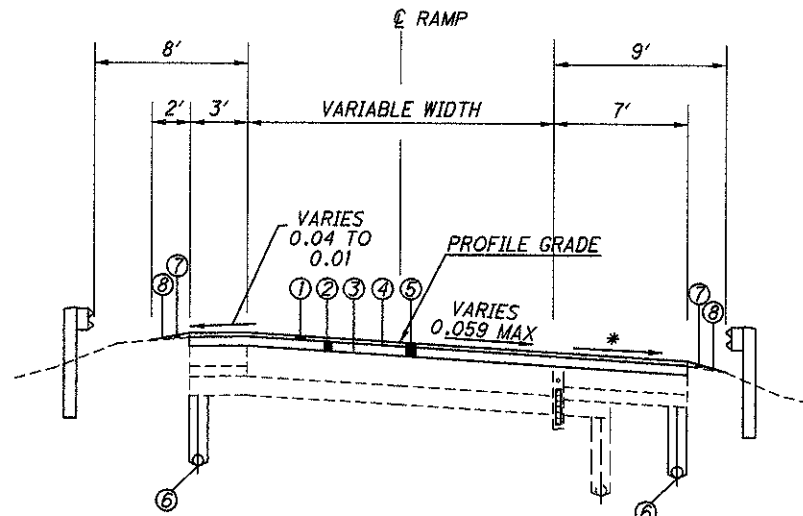


### PROPOSED RAMP SECTION

STA. 0+30.00 TO STA. 0+56.00 = 26.00 L.F. (RAMP "B" S.R.57, INT. RETURN AREA)  
 STA. 0+56.00 TO STA. 1+56.00 = 100.00 L.F. (RAMP "B" S.R.57, TAPER AREA)  
 STA. 1+56.00 TO STA. 10+33.59 = 877.59 L.F. (RAMP "B" S.R.57)  
 TOTAL = 1003.59 L.F.

#### LEGEND - PROPOSED

- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 2.50" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
- ③ ITEM 407, TACK COAT, 702.13
- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 4.00" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- ⑥ 6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN, 707.31
- ⑦ ITEM 617, COMPACTED AGGREGATE, AS PER PLAN
- ⑧ ITEM 408 PRIME COAT

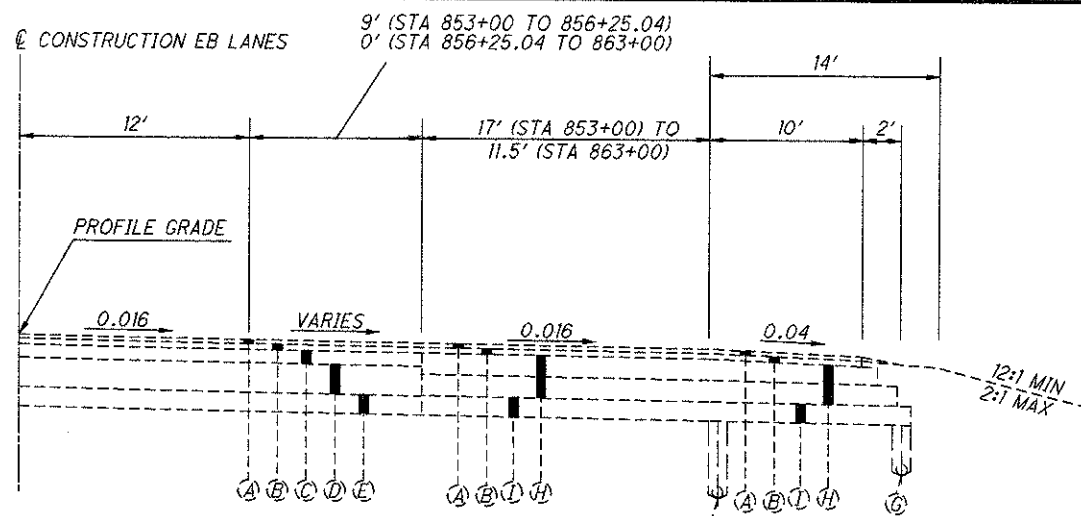


### PROPOSED SUPERELEVATED RAMP SECTIONS

\* 0.04 (OR PAVEMENT SLOPE IF GREATER THAN 0.04)  
 STA. 10+33.59 TO STA. 11+08.00 = 74.41 L.F. (RAMP "B" S.R.57)  
 STA. 11+08.00 TO STA. 13+10.89 = 202.89 L.F. (RAMP "B" S.R.57, RAMP GORE AREA)  
 TOTAL = 277.30 L.F.

#### LEGEND - EXISTING

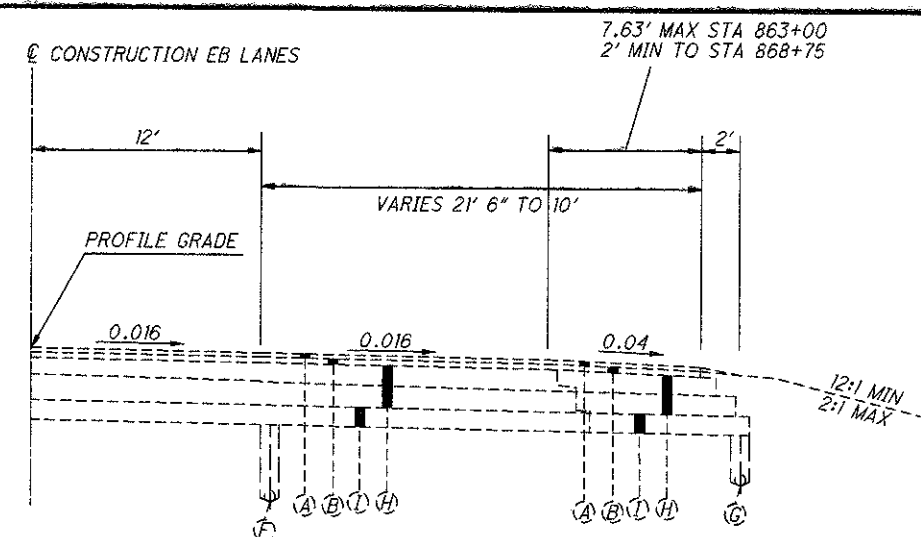
- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
- Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 2 3/4")
- Ⓒ EXISTING 9" REINFORCED CONCRETE PAVEMENT
- Ⓓ EXISTING 6" ± SUBBASE
- Ⓔ EXISTING 6" UNDERDRAIN
- Ⓕ EXISTING 6" BITUMINOUS AGGREGATE BASE
- Ⓖ EXISTING AGGREGATE BASE (T = 3" LEFT SHOULDER, 4" RIGHT SHOULDER)
- Ⓗ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)



### EXISTING ACCELERATION LANE SECTION

#### EASTBOUND LANES

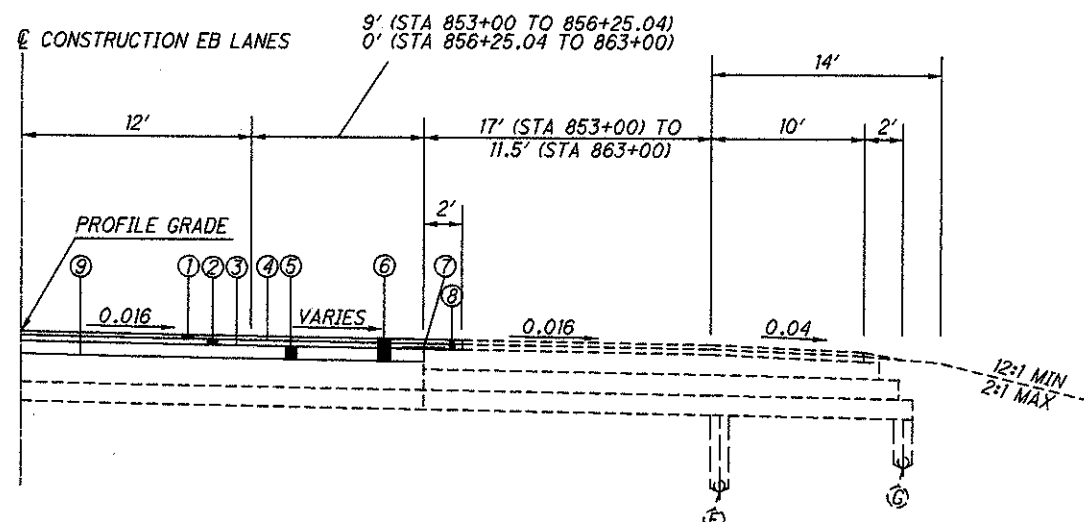
STA. 853+00.00 TO STA. 863+00 = 1000.00 L.F. (RAMP "N-E" I.R.71)  
TOTAL = 1000.00 L.F.



### EXISTING ACCELERATION LANE SECTION

#### EASTBOUND LANES

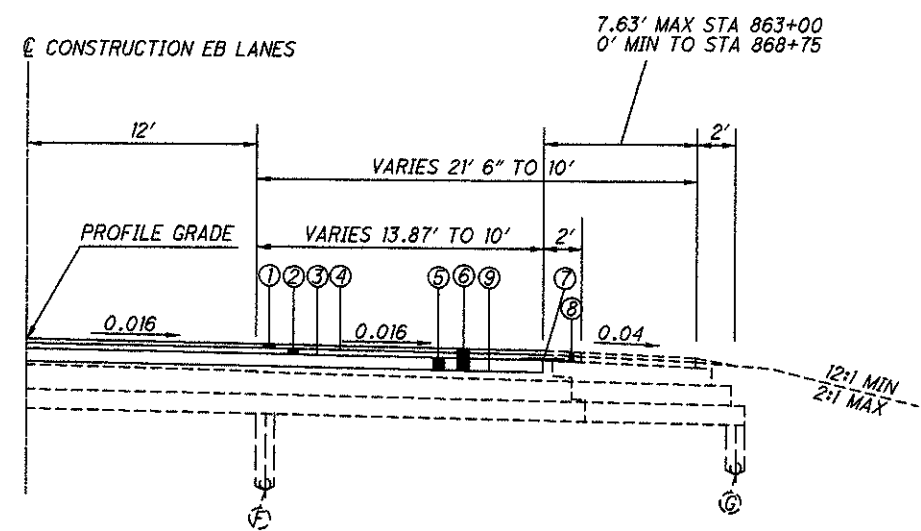
STA. 863+00.00 TO STA. 868+75.04 = 575.04 L.F. (RAMP "N-E" I.R.71)  
TOTAL = 575.04 L.F.



### PROPOSED ACCELERATION LANE SECTION

#### EASTBOUND LANES

STA. 853+00.00 TO STA. 863+00 = 1000.00 L.F. (RAMP "N-E" I.R.71)  
TOTAL = 1000.00 L.F.



### PROPOSED ACCELERATION LANE SECTION

#### EASTBOUND LANES

STA. 863+00.00 TO STA. 868+75.04 = 575.04 L.F. (RAMP "N-E" I.R.71)  
TOTAL = 575.04 L.F.

#### LEGEND - PROPOSED

- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 1.75" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
- ③ ITEM 407, TACK COAT
- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 4.00" ITEM 301 ASPHALT CONCRETE BASE, PG64-28 AS PER PLAN
- ⑥ 7.00" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- ⑦ 30" ITEM SPECIAL PAVEMENT OVERLAY FABRIC COMPOSITE
- ⑧ 3.25" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (2' WIDE)
- ⑨ ITEM 407 TACK COAT, 702.13

#### LEGEND - EXISTING

- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
- Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
- Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
- Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
- Ⓔ EXISTING 6" ± SUBBASE
- Ⓕ EXISTING 6" BASE PIPE UNDERDRAIN
- Ⓖ EXISTING 4" BASE PIPE UNDERDRAIN (18" NORMAL DEPTH)
- Ⓗ EXISTING 14" BITUMINOUS AGGREGATE BASE
- Ⓘ EXISTING AGGREGATE BASE (T= 6")

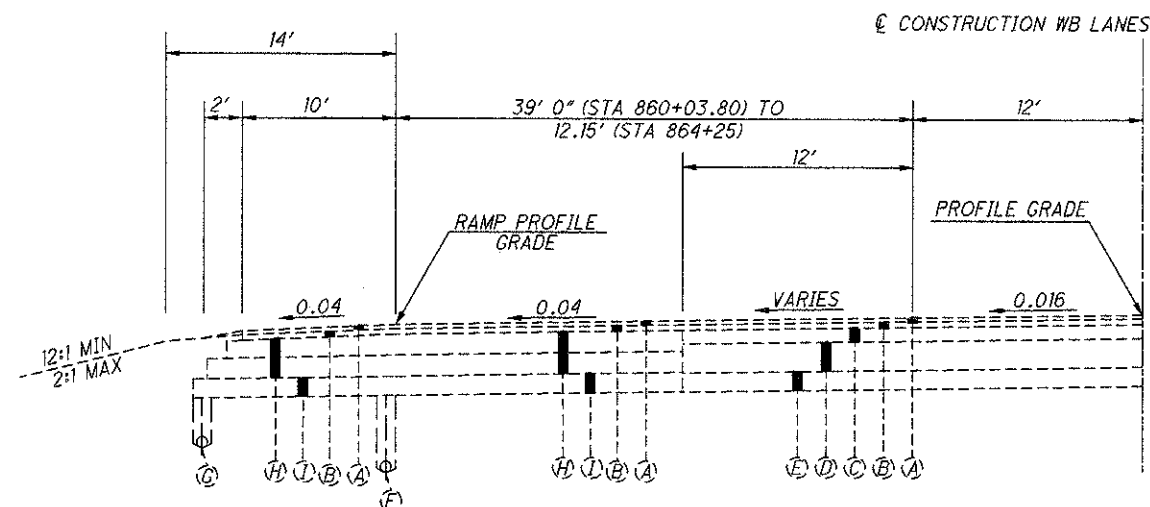
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SCALE IN FEET

CALCULATED  
MJS  
CHECKED  
BAD

TYPICAL SECTIONS

MED-76-0.61

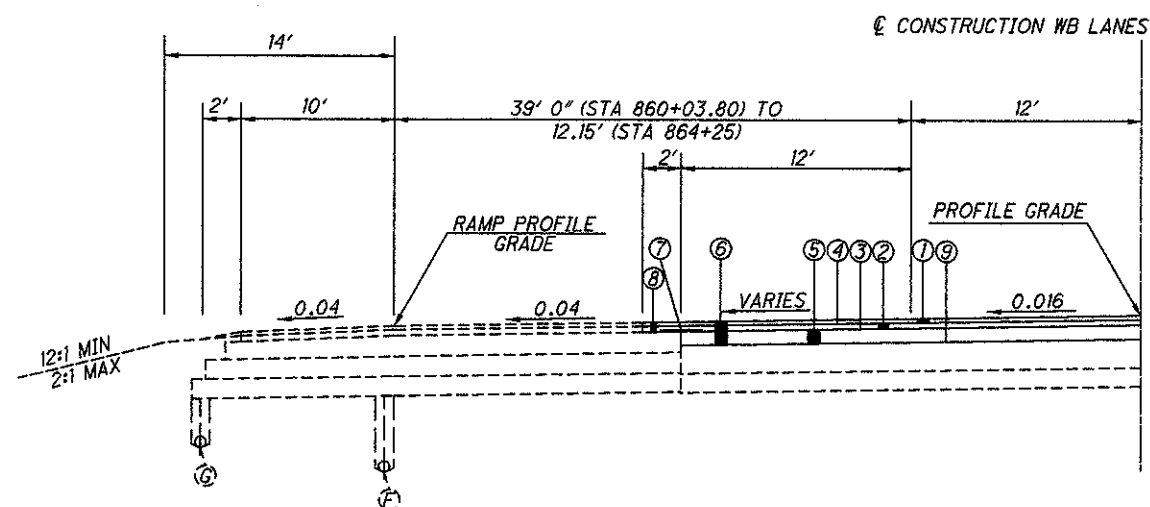
24  
138



**EXISTING DECELERATION LANE SECTION**

**WESTBOUND LANES**

STA. 860+03.80 TO STA. 864+25 = 421.20 L.F. (RAMP "E-S" I.R.71)  
 TOTAL = 421.20 L.F.



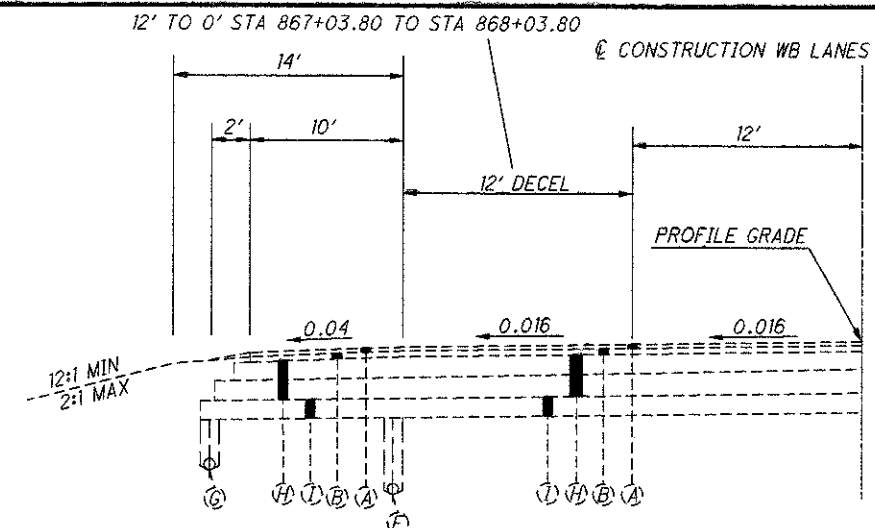
**PROPOSED DECELERATION LANE SECTION**

**WESTBOUND LANES**

STA. 860+03.80 TO STA. 864+25 = 421.20 L.F. (RAMP "E-S" I.R.71)  
 TOTAL = 421.20 L.F.

**LEGEND - PROPOSED**

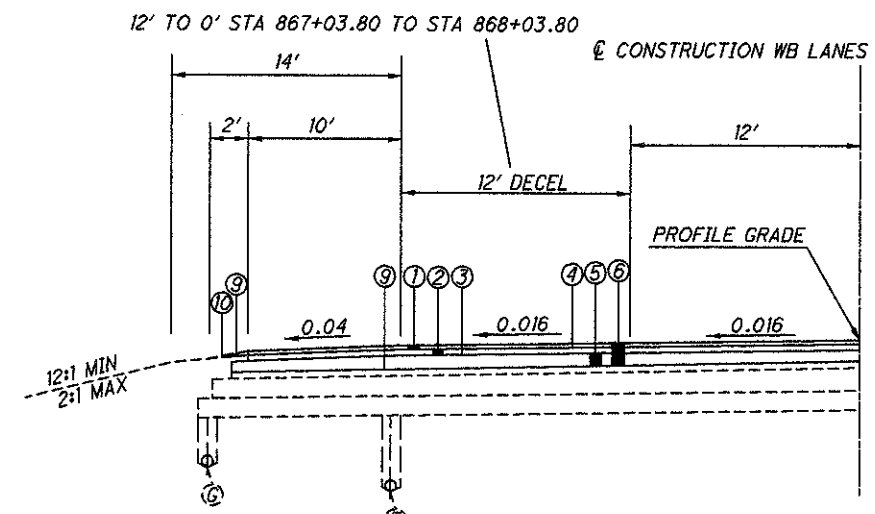
- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 1.75" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
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- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
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- ⑦ 30" ITEM SPECIAL PAVEMENT OVERLAY FABRIC COMPOSITE
- ⑧ 3.25" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (2' WIDE)
- ⑨ ITEM 407 TACK COAT, 702.13



**EXISTING DECELERATION LANE SECTION**

**WESTBOUND LANES**

STA. 864+25 TO STA. 868+03.80 = 378.80 L.F. (RAMP "E-S" I.R.71)  
 TOTAL = 378.80 L.F.



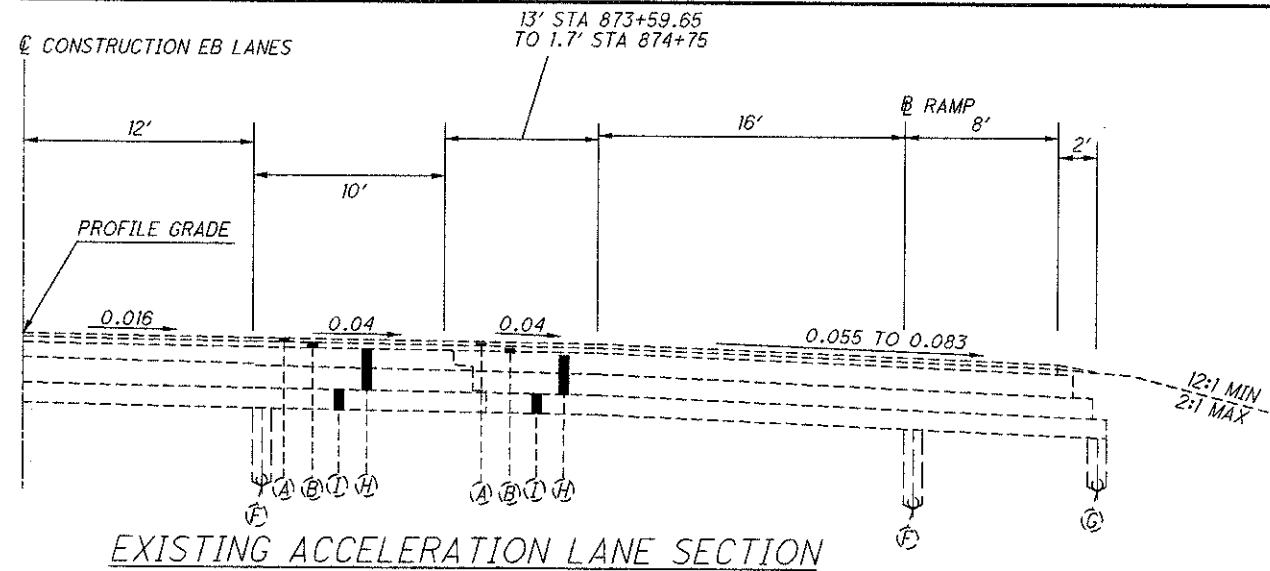
**PROPOSED DECELERATION LANE SECTION**

**WESTBOUND LANES**

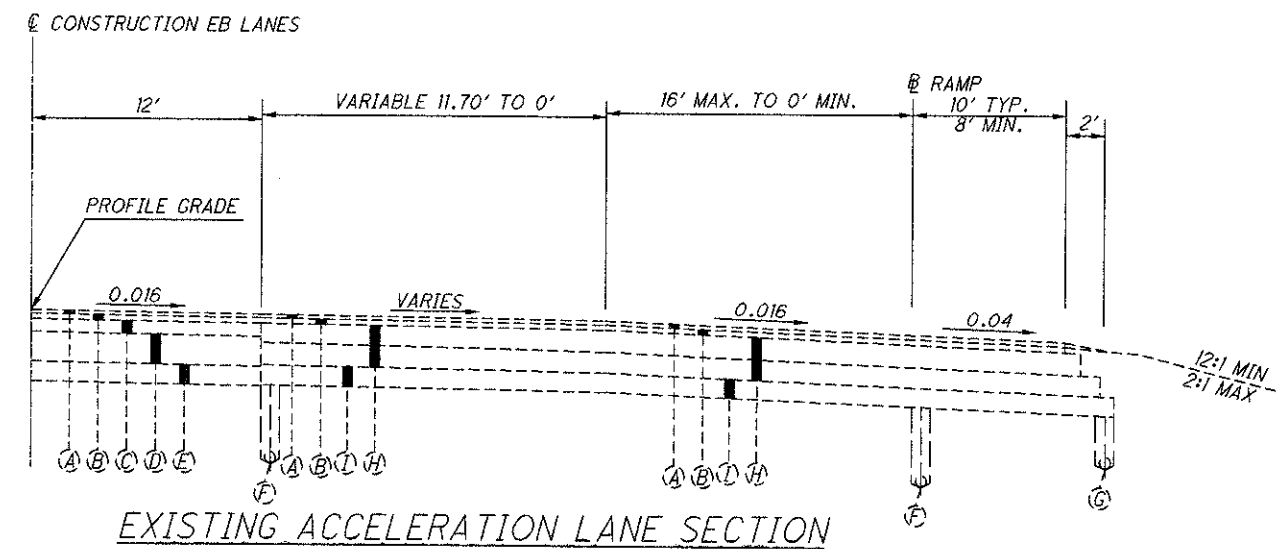
STA. 864+25 TO STA. 868+03.80 = 378.80 L.F. (RAMP "E-S" I.R.71)  
 TOTAL = 378.80 L.F.

**LEGEND - EXISTING**

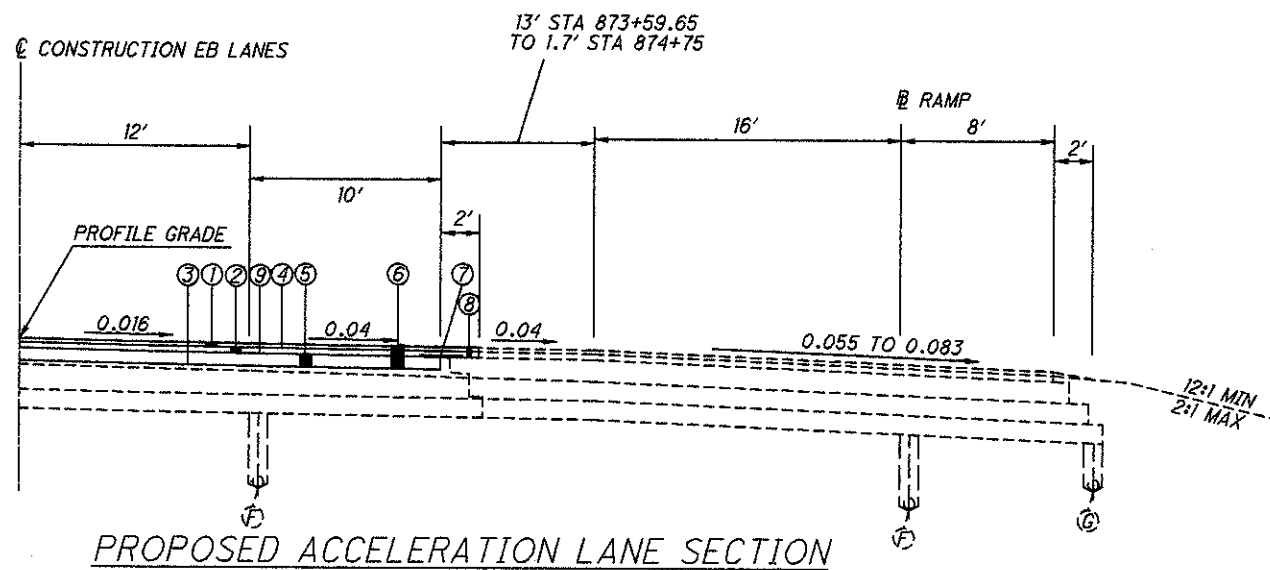
- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
- Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
- Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
- Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
- Ⓔ EXISTING 6" ± SUBBASE
- Ⓕ EXISTING 6" BASE PIPE UNDERDRAIN
- Ⓖ EXISTING 4" BASE PIPE UNDERDRAIN (18" NORMAL DEPTH)
- Ⓗ EXISTING 14" BITUMINOUS AGGREGATE BASE
- Ⓘ EXISTING AGGREGATE BASE (T= 6")



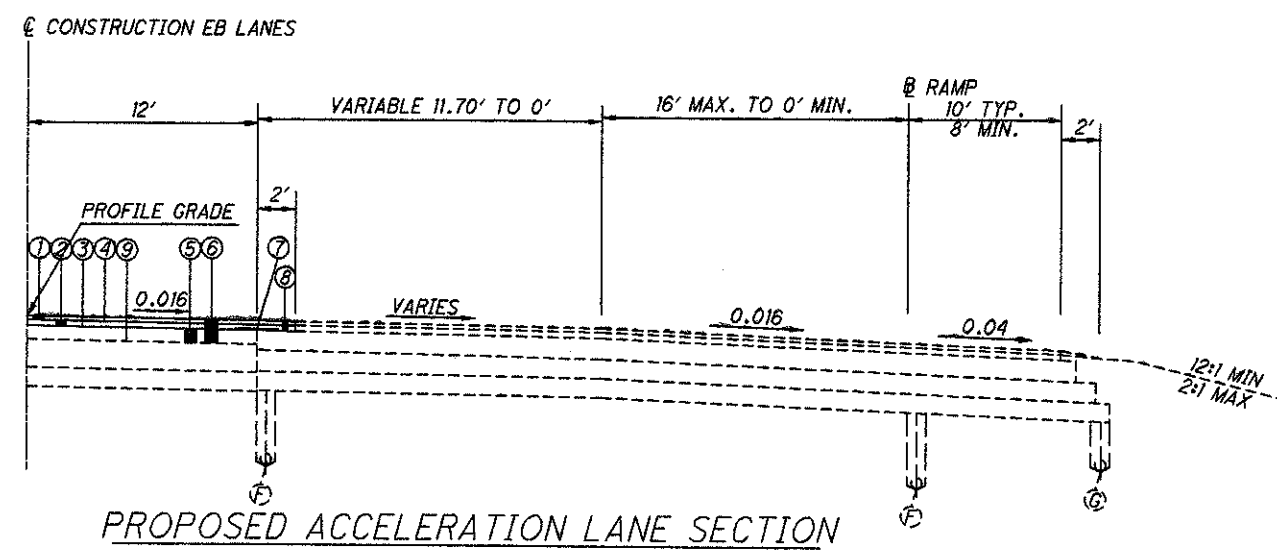
EASTBOUND LANES  
 STA. 873+59.65 TO STA. 874+75 = 115.35 L.F. (RAMP "S-E" I.R.71)  
 TOTAL = 115.04 L.F.



EASTBOUND LANES  
 STA. 874+75.00 TO STA. 879+08.48 = 433.48 L.F. (RAMP "S-E" I.R.71)  
 STA. 880+50.92 TO STA. 881+50.00 = 99.08 L.F. (RAMP "S-E" I.R.71)  
 TOTAL = 532.56 L.F.



EASTBOUND LANES  
 STA. 873+59.65 TO STA. 874+75 = 115.35 L.F. (RAMP "S-E" I.R.71)  
 TOTAL = 115.04 L.F.



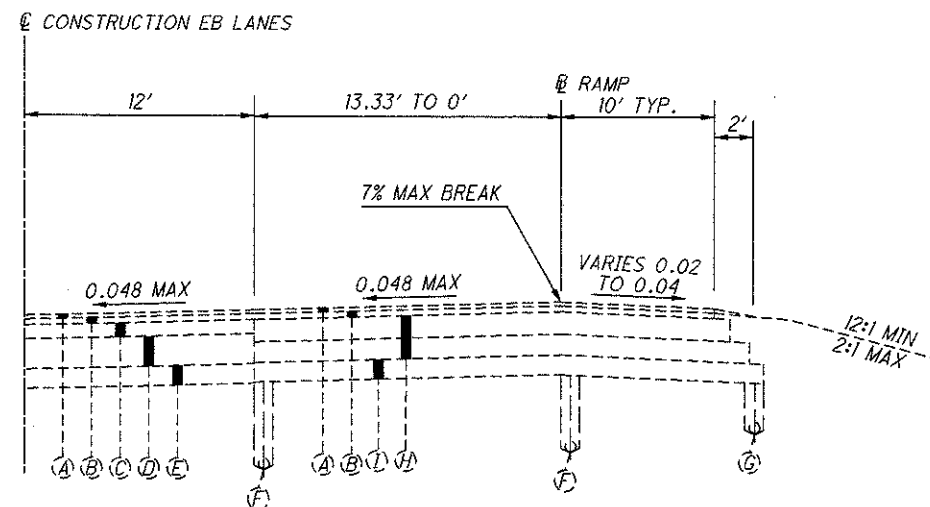
EASTBOUND LANES  
 STA. 874+75.00 TO STA. 879+08.48 = 433.48 L.F. (RAMP "S-E" I.R.71)  
 STA. 880+50.92 TO STA. 881+50.00 = 99.08 L.F. (RAMP "S-E" I.R.71)  
 TOTAL = 532.56 L.F.

**LEGEND - PROPOSED**

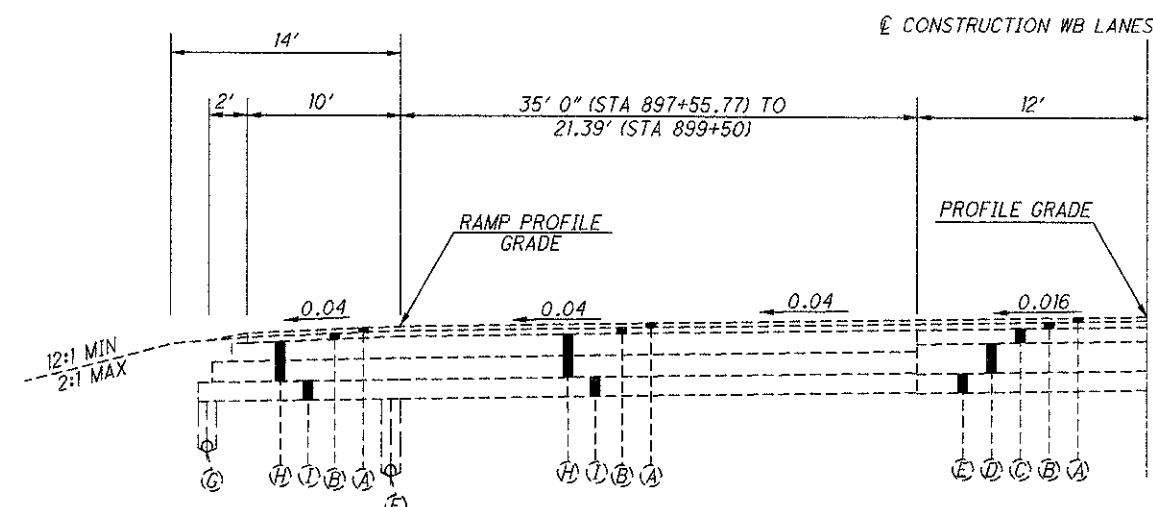
- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 1.75" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
- ③ ITEM 407, TACK COAT
- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 4.00" ITEM 301 ASPHALT CONCRETE BASE, PG64-28 AS PER PLAN
- ⑥ 7.00" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- ⑦ 30" ITEM SPECIAL PAVEMENT OVERLAY FABRIC COMPOSITE
- ⑧ 3.25" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (2' WIDE)
- ⑨ ITEM 407 TACK COAT, 702.13

**LEGEND - EXISTING**

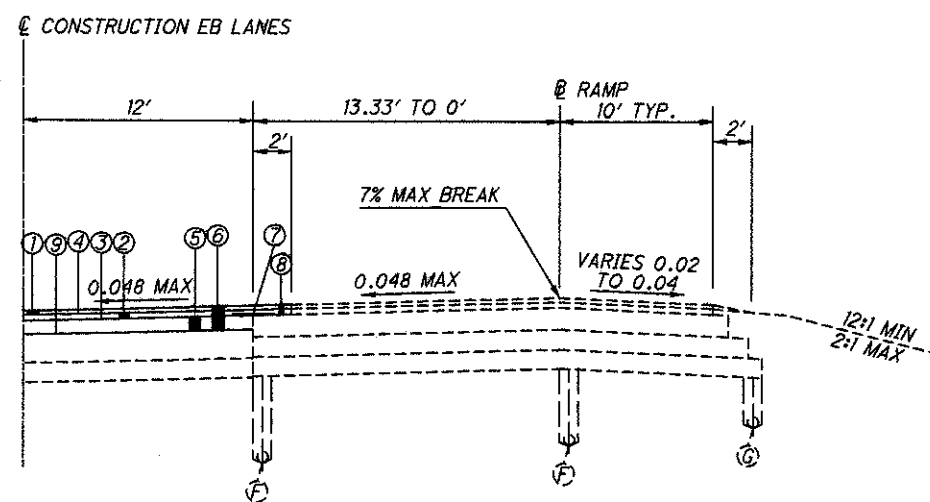
- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
- Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
- Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
- Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
- Ⓔ EXISTING 6" ± SUBBASE
- Ⓕ EXISTING 6" BASE PIPE UNDERDRAIN
- Ⓖ EXISTING 4" BASE PIPE UNDERDRAIN (18" NORMAL DEPTH)
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- Ⓘ EXISTING AGGREGATE BASE (T= 6")



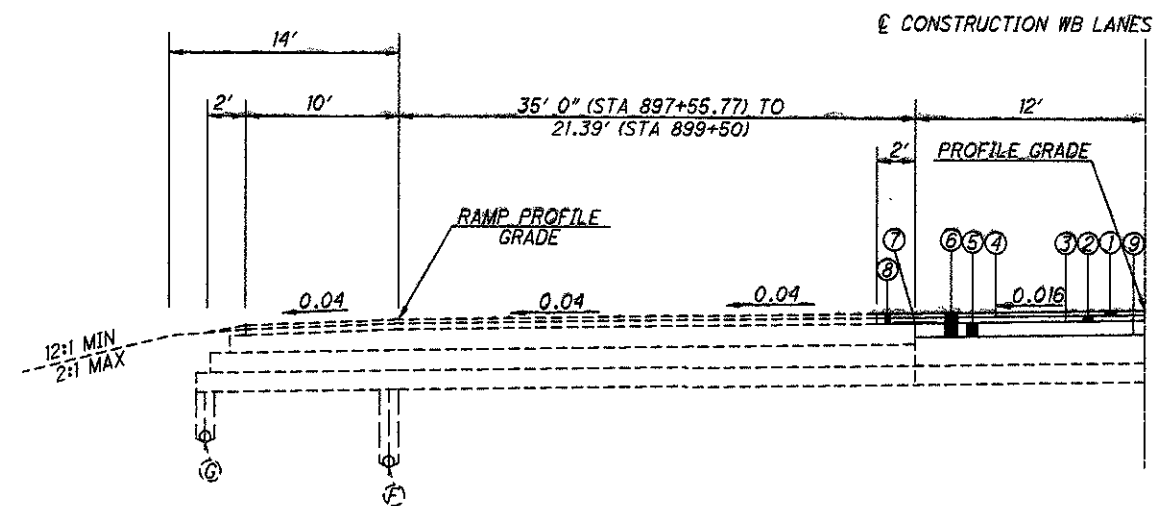
EASTBOUND LANES  
 STA. 881+50.00 TO STA. 888+16.63 = 666.63 L.F. (RAMP "S-E" I.R.71)  
 TOTAL = 666.63 L.F.



WESTBOUND LANES  
 STA. 897+55.77 TO STA. 899+50 = 194.23 L.F. (RAMP "E-N" I.R.71)  
 TOTAL = 194.23 L.F.



EASTBOUND LANES  
 STA. 881+50.00 TO STA. 888+16.63 = 666.63 L.F. (RAMP "S-E" I.R.71)  
 TOTAL = 666.63 L.F.



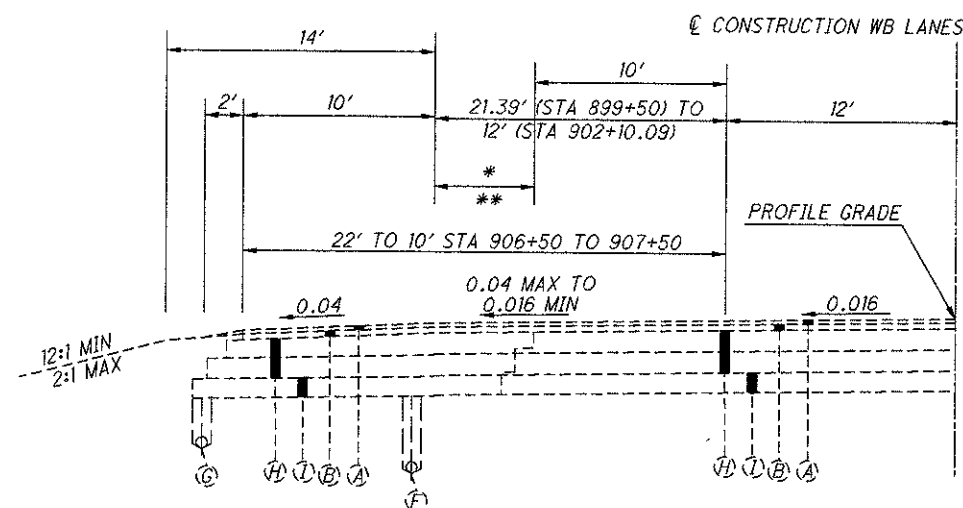
WESTBOUND LANES  
 STA. 897+55.77 TO STA. 899+50 = 194.23 L.F. (RAMP "E-N" I.R.71)  
 TOTAL = 194.23 L.F.

LEGEND - PROPOSED

- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 1.75" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
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- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 4.00" ITEM 301 ASPHALT CONCRETE BASE, PG64-28 AS PER PLAN
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- ⑦ 30" ITEM SPECIAL PAVEMENT OVERLAY FABRIC COMPOSITE
- ⑧ 3.25" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (2' WIDE)
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LEGEND - EXISTING

- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
- Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
- Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
- Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
- Ⓔ EXISTING 6" ± SUBBASE
- Ⓕ EXISTING 6" BASE PIPE UNDERDRAIN
- Ⓖ EXISTING 4" BASE PIPE UNDERDRAIN (18" NORMAL DEPTH)
- Ⓗ EXISTING 14" BITUMINOUS AGGREGATE BASE
- Ⓘ EXISTING AGGREGATE BASE (T= 6")

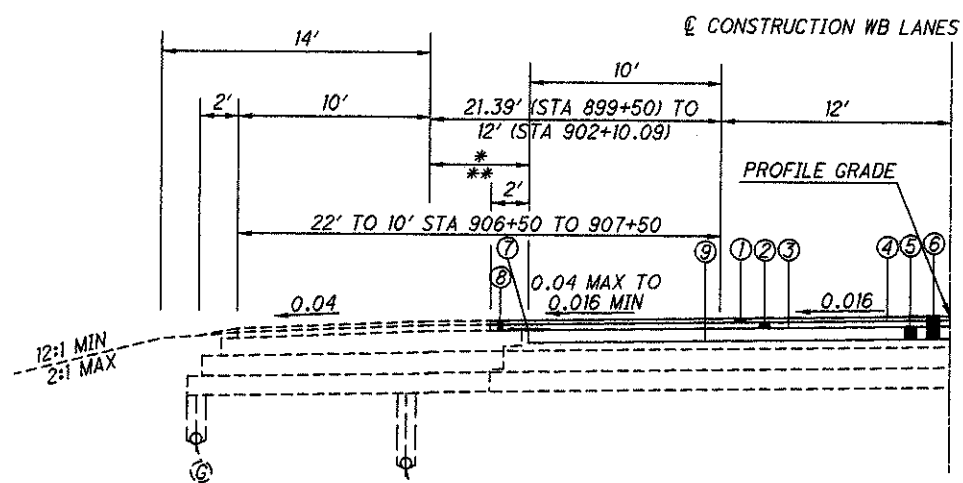


### EXISTING DECELERATION LANE SECTION

#### WESTBOUND LANES

STA. 899+50 TO STA. 903+63.12 = 413.12 L.F. (RAMP "E-N" I.R.71)  
 STA. 906+31.08 TO STA. 907+50 = 118.92 L.F. (RAMP "E-N" I.R.71)  
 TOTAL = 532.04 L.F.

\* 11.39' TO 2' STA 899+50 TO 902+10.09  
 \*\* 2' STA 902+10.09 TO 906+50



### PROPOSED DECELERATION LANE SECTION

#### WESTBOUND LANES

STA. 899+50 TO STA. 903+63.12 = 413.12 L.F. (RAMP "E-N" I.R.71)  
 STA. 906+31.08 TO STA. 907+50 = 118.92 L.F. (RAMP "E-N" I.R.71)  
 TOTAL = 532.04 L.F.

\* 11.39' TO 2' STA 899+50 TO 902+10.09  
 \*\* 2' STA 902+10.09 TO 906+50

#### LEGEND - PROPOSED

- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
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- ③ ITEM 407, TACK COAT
- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 4.00" ITEM 301 ASPHALT CONCRETE BASE, PG64-28 AS PER PLAN
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#### LEGEND - EXISTING

- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
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- Ⓔ EXISTING 6" ± SUBBASE
- Ⓕ EXISTING 6" BASE PIPE UNDERDRAIN
- Ⓖ EXISTING 4" BASE PIPE UNDERDRAIN (18" NORMAL DEPTH)
- Ⓗ EXISTING 14" BITUMINOUS AGGREGATE BASE
- Ⓘ EXISTING AGGREGATE BASE (T= 6")

DESIGN FILE: I:\projects\77475\roadway\sheets\77475GN001.dgn  
WORKSTATION: mschafra DATE: 10/9/2009

## GENERAL

### ELEVATION DATUM

ALL ELEVATIONS ARE ORTHOMETRIC HEIGHTS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND THE GEOID03 GEOID. HORIZONTAL POSITIONS ARE BASED ON THE OHIO STATE PLANE NORTH ZONE, A LAMBERT CONFORMAL CONIC MAP PROJECTION, THE NORTH AMERICAN DATUM OF 1983 ADJUSTED TO THE NATIONAL SPATIAL REFERENCE SYSTEM OF 2007 (NAD 83(CORS96)), AND THE GRS80 ELLIPSOID.

### COORDINATION OF WORK BETWEEN CONTRACTORS

THE CONTRACTOR SHOULD BE AWARE THAT THERE MAY BE OTHER WORK BEING PERFORMED BY A SEPARATE CONTRACT. MED-71-6.06 IS AN INTERCHANGE IMPROVEMENT PROJECT OF THE I-76/I-71 INTERCHANGE AND HAS AN ESTIMATED COMPLETION DATE OF FALL, 2010. COORDINATION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

### ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

### WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

### UTILITY OWNERSHIP

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

MEDINA COUNTY ENGINEER  
791 WEST SMITH ROAD  
MEDINA, OH 44256  
330 723-9561

VERIZON  
6223 NORWALK ROAD  
MEDINA, OH 44256  
330 722-9453

MEDINA COUNTY SANITARY ENGINEER  
791 WEST SMITH ROAD  
MEDINA, OH 44256  
330 723-9589

VERIZON BUSINESS  
120 RAVINE STREET  
AKRON, OH 44303  
330 253-8267

OHIO EDISON COMPANY  
6326 LAKE AVE.  
ELYRIA, OH 44035  
440 326-3207

GATHERCO INC.  
5772 DRESSLER ROAD NW  
NORTH CANTON, OH 44720  
330 498-9553

TIME WARNER CABLE  
530 SOUTH MAIN STREET, SUITE 1751  
AKRON, OH 44311  
330 630-7950

COLUMBIA GAS OF OHIO  
7080 FRY ROAD  
MIDDLEBURG HEIGHTS, OH 44130  
440 891-2428

VILLAGE OF CRESTON  
100 NORTH MAIN STREET  
CRESTON, OH 44217  
330 435-4529

DOMINION EAST OHIO  
320 SPRINGSIDE DRIVE, SUITE 320  
AKRON, OH 44333  
330 664-2409

CITY OF WADSWORTH  
120 MAPLE STREET  
WADSWORTH, OH 44281  
330 335-2737

RANGE RESOURCES APPALACHIAN  
125 STATE ROUTE 43  
HARTVILLE, OH 44632  
330 877-6747

VILLAGE OF SEVILLE  
120 ROYAL CREST DRIVE  
SEVILLE, OH 44273  
330 769-4146

COLUMBIA GAS TRANSMISSION  
589 NORTH STATE STREET  
MEDINA, OH 44256  
330 721-4163

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

### CONSTRUCTION EQUIPMENT MEDIAN CROSSINGS

CONSTRUCTION EQUIPMENT SHALL CROSS THE MEDIAN ONLY AT U-TURN CROSSOVERS AND AT OTHER ADDITIONAL LOCATIONS APPROVED BY THE ENGINEER. A MAXIMUM OF TWO (2) ADDITIONAL EQUIPMENT CROSSINGS MAY BE ALLOWED.

THE CONTRACTOR SHALL BE RESPONSIBLE, AT THEIR EXPENSE, FOR THE RESTORATION OF THE TWO ADDITIONAL EQUIPMENT CROSSINGS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING PRIOR TO THEIR WORK OPERATIONS.

### EXISTING PLANS

EXISTING PLANS FOR UNDERDRAINS, THE WEIGH STATION AND THE REST AREA DEMOLITIONS CAN BE ACCESSED FROM THE ODOT FTP SITE LOCATED AT //CTRF100/D03\$/EXISTING PLANS/MED-76-0.61/

### ROADWAY

#### ITEM 209 - LINEAR GRADING, AS PER PLAN

THE CONTRACTOR IS REQUIRED TO PERFORM LINEAR GRADING ON THE GRADED SHOULDER, AND UNDERNEATH EXISTING GUARDRAIL LOCATIONS AS NEEDED. IT IS ANTICIPATED THAT THERE MAY BE AREAS WHERE THE GRADED SHOULDER IS AT A HIGHER ELEVATION THAN THE ADJACENT PROPOSED PAVEMENT. A 10:1 SLOPE SHALL BE ESTABLISHED, OR AS DIRECTED BY THE ENGINEER, WHEN PERFORMING ITEM 209 LINEAR GRADING. THE INTENT IS TO PROVIDE AN UNOBSTRUCTED AND POSITIVE FLOW OF STORM WATER FROM THE PAVEMENT TO THE DITCH. THE LINEAR GRADING SHALL BE PERFORMED AFTER THE INTERMEDIATE COURSE HAS BEEN COMPLETED AND BEFORE THE SURFACE COURSE IS PLACED. ALL LABOR AND EQUIPMENT NECESSARY TO PERFORM THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER MILE FOR ITEM 209 LINEAR GRADING.

### DRAINAGE

#### REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

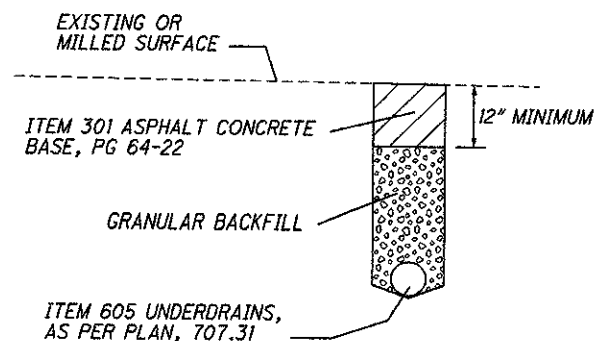
ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.

#### ITEM 605 UNDERDRAINS, AS PER PLAN, 707.31

THE UNDERDRAINS ARE TO BE BACKFILLED WITH GRANULAR MATERIAL AS STATED IN CMS 605 AND THE TOP 12 INCHES (MINIMUM THICKNESS) SHALL BE FILLED WITH ITEM 301 ASPHALT CONCRETE BASE, PG 64-22 AS SHOWN IN THE DETAIL BELOW. THE ITEM 301 MATERIAL CAN BE PLACED IN ONE LIFT.

THE COST OF THE ITEM 301 ASPHALT CONCRETE BASE, PG 64-22 AND THE GRANULAR MATERIAL COMPLETED AND IN PLACE AS PER THE DETAIL SHALL BE INCLUDED IN THE COST OF ITEM 605 UNDERDRAINS, AS PER PLAN, 707.31



### PAVEMENT

#### ITEM 253, PAVEMENT REPAIR, AS PER PLAN ITEM 253, PAVEMENT REPAIR, MISC.: PARTIAL DEPTH

THESE ITEMS OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING ASPHALT CONCRETE PAVEMENT ON THE MAINLINE, IN AREAS OF EXISTING PAVEMENT FAILURE. THE LOCATIONS WILL BE AT THE FULL DEPTH ASPHALT CONCRETE SECTIONS AS SHOWN ON THE TYPICAL SECTIONS.

THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE REPAIRED. PAVEMENT REPAIR SHALL BE PERFORMED AFTER PAVEMENT PLANING AND BEFORE PLACEMENT OF THE PROPOSED ASPHALT CONCRETE BUILDUP. THE REPAIR AREAS SHALL BE SAW CUT AND EXCAVATED TO PROVIDE STRAIGHT AND VERTICAL SURFACES AROUND THE PERIMETER OF THE REPAIR AREA. PAVEMENT PLANING MAY BE USED AS AN ALTERNATIVE TO SAW CUTTING AND EXCAVATING. THE PAVEMENT SHALL BE REMOVED WITHIN THE DESIGNATED AREAS BY METHODS WHICH WILL NOT DAMAGE ADJACENT PAVEMENT. THE DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT WITH A MAXIMUM DEPTH OF 10" AND A DEPTH OF 3" AND AN AVERAGE WIDTH OF 4 FT FOR ESTIMATING PURPOSES FOR THE PARTIAL DEPTH REPAIRS. THE MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17.

THE CONTRACTOR SHALL BE CAPABLE OF PERFORMING PAVEMENT REPAIRS 2 FEET WIDE.

REPLACEMENT MATERIAL SHALL BE ITEM 301 ASPHALT CONCRETE BASE, PG 64-28, AS PER PLAN OR ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448) AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE. ITEM 301 CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 3" AND 12" WITH A MAXIMUM PAVEMENT LIFT OF 6". ITEM 442 CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 0" AND 5" WITH A MAXIMUM PAVEMENT LIFT OF 3". ALL EXISTING PAVEMENT AREAS WHICH WILL BE IN CONTACT WITH THE PAVEMENT REPAIR SHALL BE CLEANED AND COATED PER CMS 401.14, USING AN ASPHALT MATERIAL COMPLYING WITH 407.02. ALL COMPACTION SHALL BE ACHIEVED BY MECHANICAL METHODS TO THE SATISFACTION OF THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. FOR PAYMENT PURPOSES ITEM 253 PAVEMENT REPAIR, MISC.: PARTIAL DEPTH IS TO BE A MAXIMUM OF 4" DEEP AND ITEM 253 PAVEMENT REPAIR, AS PER PLAN IS FOR DEPTHS GREATER THAN 4". PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM 253, PAVEMENT REPAIR, AS PER PLAN OR ITEM 253 PAVEMENT REPAIR, MISC.: PARTIAL DEPTH. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

|                                                |             |
|------------------------------------------------|-------------|
| ITEM 253 PAVEMENT REPAIR, MISC.: PARTIAL DEPTH | 150 CU. YD. |
| ITEM 253 PAVEMENT REPAIR, AS PER PLAN          | 15 CU. YD.  |

#### ITEM 203 EXCAVATION ITEM 304 AGGEGATE BASE

AFTER THE PAVED SHOULDERS ARE MILLED AND BEFORE THE ITEM 301 IS PLACED ON THE SHOULDERS, THERE MAY BE SOME SHOULDER AREAS THAT NEED IMPROVEMENT. AN ESTIMATED QUANTITY OF ITEM 203 EXCAVATION AND ITEM 304 AGGREGATE HAVE BEEN PROVIDED TO BE USED FOR THIS PURPOSE.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY FOR ITEM 203 EXCAVATION AND ITEM 304 AGGREGATE BASE. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD OF ITEM 203 EXCAVATION AND PER CU YD OF ITEM 304 AGGREGATE BASE. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

|                         |           |
|-------------------------|-----------|
| ITEM 203 EXCAVATION     | 500 CU YD |
| ITEM 304 AGGREGATE BASE | 500 CU YD |

GENERAL NOTES

MED-76-0.61

29  
138

**ITEM 254. PAVEMENT PLANING. ASPHALT CONCRETE. AS PER PLAN (4" OR 7")**

THE INTENT OF THE PLANING IS TO MILL DOWN TO THE CONCRETE PAVEMENT ON THE MAINLINE WHICH IS APPROXIMATELY 7 INCHES IN DEPTH AND TO MILL THE SAME DEPTH ON THE PAVED SHOULDERS OF THE MAINLINE. THE INTENT OF THE PLANING ON THE RAMPS IS TO MILL DOWN TO THE TOP OF CONCRETE WHICH IS APPROXIMATELY 4 INCHES IN DEPTH AND TO MILL DOWN THE SAME DEPTH ON THE PAVED SHOULDERS OF THE RAMPS. IN THE FULL DEPTH ASPHALT CONCRETE MAINLINE SECTION, THE MILLING SHALL ESTABLISH THE PAVEMENT CROSS SLOPE TO BE 0.016 BETWEEN THE CROWN AND THE EDGELINE AND 0.04 FOR THE PAVED SHOULDERS.

THE GRINDINGS FROM THIS PAY ITEM SHALL NOT BE USED IN ANY ODOT ASPHALT CONCRETE MIX DESIGN.

SPECIAL ATTENTION SHALL BE GIVEN TO SUPERELEVATED CURVES. THE SUPERELEVATION SHALL BE MAINTAINED AND/OR RESTORED, IF NECESSARY, AS DIRECTED BY THE ENGINEER. IF THERE IS NO INFORMATION IN THE PLANS TO CHANGE THE SUPERELEVATION, THE INTENT IS TO MAINTAIN THE EXISTING SUPERELEVATION.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL CATCH BASINS AND INLETS.

THE PROGRESSION OF THE PLANING SHALL PROCEED IN SUCH A MANNER THAT NORMAL TRAFFIC WILL NOT BE ALLOWED TO RUN OVER THE PLANED ROADWAY OF THE MAINLINE PAVEMENT.

DRAINAGE SLOTS SHALL BE CUT INTO THE SHOULDER(S) AT THE LOW POINT OF EACH PLANED SECTION TO PREVENT TRAPPED WATER PUDDLES, AND REFILLED DURING RESURFACING. CUTTING AND FILLING DRAINAGE SLOTS SHALL BE INCLUDED IN PAYMENT WITH ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT PLANING, ASPHALT CONCRETE. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD OF PAVEMENT PLANING, ASPHALT CONCRETE.

**ITEM 254. PAVEMENT PLANING. ASPHALT CONCRETE. AS PER PLAN (3.25")**

THIS ITEM SHALL INCLUDE MILLING AS NEEDED FOR BUTT JOINTS PER STANDARD DRAWING BP 3.1 AT THE BEGINNING AND END OF THE PROJECT, AND AT CONCRETE APPROACH SLABS AND/OR BRIDGE DECKS AT STRUCTURES. PLANING AT STRUCTURE APPROACHES MAY BE NEEDED IF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC IS PLACED AT THE APPROACHES.

THE GRINDINGS FROM THIS PAY ITEM SHALL NOT BE USED IN ANY ODOT ASPHALT CONCRETE MIX DESIGN.

**ITEM 254. PAVEMENT PLANING. ASPHALT CONCRETE. AS PER PLAN (1.5", 3", 3.25", AND 5")**

THIS ITEM SHALL INCLUDE MILLING AS DETAILED IN THE MAINTENANCE OF TRAFFIC SHEETS.

THE GRINDINGS FROM THIS PAY ITEM SHALL NOT BE USED IN ANY ODOT ASPHALT CONCRETE MIX DESIGN.

**ITEM 301 ASPHALT CONCRETE BASE. PG64-28. AS PER PLAN**

ON THIS PROJECT ITEM 301 COARSE AGGREGATE SHALL HAVE A TWO FACE CRUSH COUNT OF 75% PER ASTM D 5821. MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT WILL BE 30%. ENSURE THAT A MINIMUM OF 50% OF THE VIRGIN FINE AGGREGATE USED IN THE ITEM 301 IS SAND MANUFACTURED FROM STONE OR AIR COOLED SLAG.

ALL COSTS TO BE INCLUDED IN ITEM 301 ASPHALT CONCRETE BASE, PG64-28, AS PER PLAN.

**ITEM 442. ASPHALT CONCRETE INTERMEDIATE COURSE. 19MM. TYPE A (446)**

**ITEM 442. ASPHALT CONCRETE SURFACE COURSE. 12.5 MM. TYPE A (446)**

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (W8-1-36) SHALL BE ERECTED AT TRANSVERSE JOINTS LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN, AS DIRECTED BY THE ENGINEER. THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

**RECYCLED ASPHALT CONCRETE USAGE**

THE GRINDINGS FROM THE PAVEMENT PLANING ON THIS PROJECT SHALL NOT BE USED AS RAP IN ANY ODOT ASPHALT CONCRETE MIX DESIGNS.

**ITEM 407. TACK COAT  
ITEM 407. TACK COAT FOR INTERMEDIATE COURSE  
ITEM 407. TACK COAT. 702.13**

AS PER 407.06 THE APPLICATION RATES SHALL BE 0.10 GAL. PER SQ. YD. PRIOR TO THE INTERMEDIATE COURSE AND SHALL BE 0.05 GAL PER SQ. YD. PRIOR TO THE SURFACE COURSE FOR ESTIMATING PURPOSES ONLY. THE RATE OF APPLICATION SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. A COMPLETE PAVEMENT SURFACE COVERAGE SHALL BE REQUIRED. AREAS OF TACK STRIPPED BY CONSTRUCTION EQUIPMENT OR TRAFFIC SHALL BE RE-COATED PRIOR TO PLACING ASPHALT CONCRETE. ALL COSTS AS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER GALLON FOR ITEM 407 TACK COAT, ITEM 407 TACK COAT FOR INTERMEDIATE COURSE, AND FOR ITEM 407 TACK COAT, 702.13.

**ITEM 623 - CONSTRUCTION LAYOUT STAKES. AS PER PLAN**

PRIOR TO THE PLANING OF PAVEMENT BENEATH ALL OVERHEAD STRUCTURES, A REGISTERED SURVEYOR SHALL MEASURE THE VERTICAL CLEARANCES AND DOCUMENT THE MEASUREMENTS ON AN APPROVED OHIO DEPARTMENT OF TRANSPORTATION FORM AVAILABLE FROM THE DISTRICT BRIDGE OFFICE. THE MEASUREMENTS SHALL BE TAKEN AT THE LOCATIONS INDICATED ON THE APPROVED ODOT FORM AND SUBMITTED TO THE PROJECT ENGINEER. AFTER THE NEW PAVING HAS BEEN COMPLETED, A REGISTERED SURVEYOR AGAIN SHALL TAKE VERTICAL CLEARANCE MEASUREMENTS AT LOCATIONS INDICATED ON THE APPROVED ODOT FORM. THESE FINAL MEASUREMENTS SHALL BE RECORDED ON THE FORM AND SUBMITTED TO THE PROJECT ENGINEER AND THE DISTRICT BRIDGE ENGINEER. THE RECORD SHALL BEAR THE STAMP OR SEAL OF THE REGISTERED SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND WILL VERIFY THAT PRE-CONSTRUCTION VERTICAL CLEARANCES HAVE BEEN PRESERVED.

IN ADDITION TO ITEM 623 AND THE ITEMS OUTLINED ABOVE, THE CONTRACTOR SHALL PROVIDE FIELD SURVEYS FOR ALL ASPHALT TRANSITIONS. SEE DETAIL ON THIS SHEET. SAID SURVEY SHALL CONSIST OF ELEVATIONS TAKEN AT THE BRIDGE EXPANSION JOINT (WHERE APPLICABLE) AND EXTENDING AS SHOWN ON THE DETAILS. ELEVATIONS AFTER RESURFACING SHALL BE TAKEN ALONG EACH EDGE LINE AND LANE LINE AND SHALL BE TAKEN AT THE FOLLOWING DISTANCES: 0 FEET, 5 FEET, 10 FEET, 25 FEET, THEN EVERY 25 FEET AND AT THE END OF THE TRANSITION. THE CONTRACTOR SHALL PLOT THESE AT EACH LOCATION AT A SCALE OF 1 INCH EQUALS 10 FOOT HORIZONTALLY AND 1 INCH EQUALS 2 FOOT VERTICALLY. THIS SURVEY SHALL BE DONE AND THE PLOTTED RESULTS GIVEN TO THE ENGINEER AS SOON AS POSSIBLE AFTER THE PLACEMENT OF THE SURFACE COURSE.

**CORRECTION OF UNACCEPTABLE ASPHALT CONCRETE TRANSITIONS**

STRAIGHT GRADE - THE ASPHALT TRANSITIONS SHALL BE CONSIDERED UNACCEPTABLE IF THE FINAL GRADE VARIES FROM THE DESIRED STRAIGHT GRADE BY GREATER THAN 0.375 INCHES ANYWHERE THROUGHOUT THE LENGTH OF THE TRANSITION. THIS TOLERANCE IS REDUCED TO 0.25 INCHES FOR THE FIRST 5 FT ADJACENT TO AN EXPANSION JOINT.

THE CONTRACTOR IS TO PROVIDE THE NECESSARY SURVEY WORK TO SHOW THAT THESE STRAIGHT GRADES ARE MET ALONG EACH EDGE LINE AND LANE LINE.

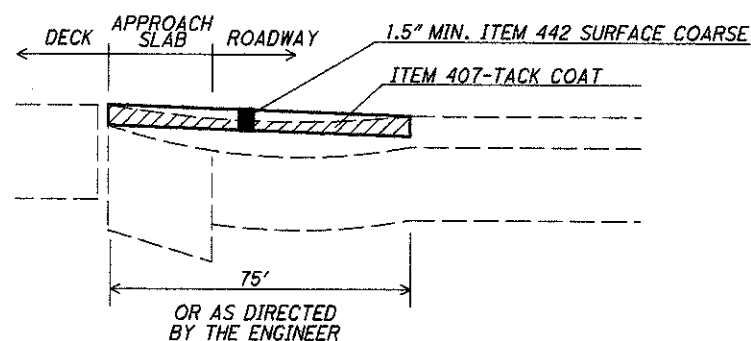
ALL UNACCEPTABLE ASPHALT CONCRETE TRANSITIONS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. THE REPAIR METHOD SHALL BE AS FOLLOWS:

A. DETERMINE FINAL GRADE LINE BY EXTENDING A STRAIGHT LINE FROM THE TOP OF THE BRIDGE END DAM JOINT TO A POINT 75 FT AWAY ON THE TOP OF RESURFACING.

B. REMOVE ASPHALT CONCRETE EXACTLY 1.5 INCHES BELOW THE FINAL GRADE.

C. PLACE ITEM 407 TACK COAT AND ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446) TO DESIRED GRADE.

D. SURVEY TRANSITION TO VERIFY THAT THE REPAIR IS WITHIN THE ALLOWABLE TOLERANCE.



CORRECTION OF UNACCEPTABLE ASPHALT TRANSITIONS

**ITEM 617. COMPACTED AGGREGATE. AS PER PLAN**

THIS ITEM OF WORK SHALL CONFORM TO ITEM 617 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS BOOK WITH EXCEPTION OF 617.02 (MATERIALS).

THE MATERIAL ON THIS PROJECT SHALL BE THE ASPHALT CONCRETE GRINDINGS RESULTING FROM ITEM 254. THE GRINDINGS USED FOR THIS WORK ARE TO BE PLACED AND COMPACTED AS DESCRIBED IN 617.05 WITH SPECIAL CARE TO CREATE PROPER COMPACTION. 100% OF THIS MATERIAL SHALL PASS A 1.5 INCH SIEVE. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO MEET THE TYPICAL SECTIONS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS REQUIRED TO APPLY THE ITEM 408 PRIME COAT WITHIN 5 CALENDAR DAYS OF PLACING THE COMPACTED AGGREGATE, AS PER PLAN.

PAYMENT FOR ALL THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER CU. YD. OF ITEM 617 COMPACTED AGGREGATE, AS PER PLAN.

**TRAFFIC CONTROL**

**ITEM SPECIAL - AIR SPEED ZONE MARKING**

THIS ITEM IS TO MEET CMS 644. THE SPEED MEASUREMENT MARKINGS ARE TO BE WHITE AND 24 INCHES WIDE (MEASURED IN THE DIRECTION OF TRAVEL) AND FOUR (4) FEET IN LENGTH.

PLACE THE MARKINGS AT 0.25 MILE INTERVALS OVER A ONE (1) MILE LENGTH OF ROADWAY ENTIRELY ON THE PAVED SHOULDERS. THE ZONE IS TO START AT MED-76-5.00 (EASTBOUND SHOULDERS) AND END AT MED-76-6.00 (EASTBOUND SHOULDERS).

IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE MARKINGS LAID OUT BY A STATE OF OHIO REGISTERED SURVEYOR. A RECORD IS TO BE KEPT AND ONE ORIGINAL SIGNED AND SEALED DOCUMENT IS TO BE SENT TO THE DISTRICT 3 TRAFFIC ENGINEER AND ONE COPY FOR THE DISTRICT CONSTRUCTION ENGINEER.

MEASUREMENT AND PAYMENT: THE FIVE (5) MARKINGS PLACED ON EACH OF THE TWO SHOULDERS IN EACH 1 MILE OF ROADWAY PER EACH DIRECTION OF TRAVEL EQUAL ONE ZONE. ONE ZONE WILL BE MEASURED AS 1 EACH. PAYMENT FOR ALL MATERIALS, LABOR, EQUIPMENT AND SURVEYING FOR ACCEPTED WORK IS TO BE INCLUDED PER EACH IN ITEM SPECIAL, AIR SPEED ZONE MARKING.

**ITEM 626 - BARRIER REFLECTOR**

A QUANTITY OF ITEM 626 BARRIER REFLECTOR IS SETUP TO BE PLACED AT EXISTING AND PROPOSED GUARDRAIL RUNS, CONCRETE PARAPET WALLS, AND CONCRETE BARRIER RUNS.

**LOOP DETECTORS AT WEIGH STATION**

WHEN THE PAVING WORK IS COMPLETED ON THE EXIT RAMP TO THE WEIGH STATION, THE ENGINEER IS TO NOTIFY THE OHIO STATE PATROL SINCE THE LOOP DETECTORS MAY GET DAMAGED. INFORMATION WILL BE PROVIDED AT THE PRECONSTRUCTION MEETING. A SEPARATE CONTRACTOR FOR ODOT WILL PLACE NEW LOOP DETECTORS UNDER AN INTER-AGENCY CONTRACT. COOPERATION OF CONTRACTORS WILL BE REQUIRED.

ITEM SPECIAL - PAVEMENT OVERLAY FABRIC COMPOSITE

DESCRIPTION. THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING PAVEMENT OVERLAY FABRIC COMPOSITE AS SHOWN ON THE PLANS AND AT LOCATIONS DESIGNATED BY THE ENGINEER. THIS FABRIC COMPOSITE MAY BE PLACED ON A MILLED SURFACE.

MATERIALS. PAVEMENT OVERLAY FABRIC COMPOSITE SHALL BE CONSTRUCTED OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85 PERCENT OF POLYOLEPHINES, POLYESTERS, AND POLYAMIDES BY WEIGHT, SHALL BE RESISTANT TO CHEMICAL ATTACK, MILDEW, ROT, AND ATTACHED TO A FIBERGLASS GRID. COMPOSITE SHALL MEET THE FOLLOWING PHYSICAL REQUIREMENTS:

| PROPERTY                                           | SPECIFICATION               | TEST METHOD                     |
|----------------------------------------------------|-----------------------------|---------------------------------|
| PAVING FABRIC:<br>GLASGRID C6200 OR APPROVED EQUAL |                             |                                 |
| GRAB TENSILE STRENGTH, LBS.                        | 90 MIN.                     | ASTM D 1682                     |
| GRAB ELONGATION, PERCENT                           | 50 MIN.                     | ASTM D 1682                     |
| ASPHALT RETENTION GAL./SY.                         | 0.20 MIN.                   | AASHTO M-288                    |
| COMPOSITE                                          |                             |                                 |
| ULTIMATE TENSILE STRENGTH (LBS/FT)                 | MD 6720 MIN<br>XD 13440 MIN | ASTM D 6637                     |
| MAXIMUM ELONGATION                                 | LESS THAN 3%                | ASTM D 6637                     |
| PERCENT OPEN AREA                                  | >50                         | TEX-621-J<br>"TESTING GEOGRIDS" |
| MELTING POINT MIN (DEGREES F)                      | 1000                        | ASTM C338                       |
| LOSS ON IGNITION %                                 | >15                         | TEX-621-J<br>"TESTING GEOGRIDS" |
| MASS/UNIT AREA                                     | 16.0 OZ. /SY MIN            | ASTM D 5261-92                  |

THE COMPOSITE FABRIC SHALL NOT BE EXPOSED TO ULTRAVIOLET RADIATION FOR MORE THAN 7 DAYS. THE FABRIC SHALL BE AT LEAST 60 INCHES BUT NO MORE THAN 150 INCHES IN WIDTH AND FURNISHED IN ROLLS OF APPROXIMATELY 104 YARDS IN LENGTH. THE FABRIC CAN BE CUT TO A 30 INCH WIDTH IF A 30 INCH WIDTH IS SPECIFIED IN THE PLAN.

THE ASPHALT SEALANT SHALL BE PG64-22 MEETING THE REQUIREMENTS OF 702.01.

CERTIFICATION SHALL BE FURNISHED IN ACCORDANCE WITH 101.061 BEFORE THE FABRIC IS PLACED. THE ENGINEER MAY REQUIRE SAMPLING FOR TESTING PURPOSES AS DIRECTED BY THE LABORATORY.

EQUIPMENT. THE CONTRACTOR SHALL PROVIDE EQUIPMENT FOR HEATING AND APPLYING BITUMINOUS MATERIAL. HEATING EQUIPMENT AND DISTRIBUTORS SHALL MEET THE REQUIREMENTS OF 407.

THE MECHANICAL LAYDOWN EQUIPMENT SHALL BE MOUNTED ON A FOUR-WHEELED VEHICLE THAT IS CAPABLE OF DRIVING OVER THE FABRIC WHILE IT IS BEING INSTALLED TO CONTROL THE TENSION ON THE MATERIAL. THE LAYDOWN MACHINE SHALL BE EQUIPPED WITH CLUTCHES TO ADJUST THE ROLL TENSION AND BROOMS TO SMOOTH OUT WRINKLES DURING INSTALLATION. MANUAL LAYDOWN MAY ONLY BE USED IN AREAS INACCESSIBLE TO THE LAYDOWN MACHINE.

CONSTRUCTION DETAILS

1 SURFACE PREPARATION. THE CRACKS AND ENTIRE ROAD SURFACE TO BE TREATED, AND AT LEAST ONE ADDITIONAL FOOT ON EACH SIDE, SHALL BE CLEANED BY SWEEPING, BLOWING, OR OTHER METHODS UNTIL ALL DUST, MUD, CLAY LUMPS, VEGETATION, AND FOREIGN MATERIAL ARE REMOVED ENTIRELY FROM THE PAVEMENT BEFORE THE BITUMINOUS MATERIAL IS APPLIED. CARE SHALL BE EXERCISED TO PREVENT MATERIAL SO REMOVED FROM BECOMING MIXED WITH THE NEW SURFACE. LARGE CRACKS AND POTHOLES SHOULD BE FILLED.

2 APPLICATION OF ASPHALT SEALANT. THE APPLICATION OF THE ASPHALT SEALANT SHALL CONFORM TO THE APPLICABLE PORTIONS OF 407. THE ASPHALT SEALANT SHALL BE UNIFORMLY SPRAYED OVER THE AREA TO BE COVERED BY FABRIC AT A RATE OF 0.25 TO 0.30 GALLON PER SQUARE YARD.

THE QUANTITY APPLIED WILL VARY WITH THE SURFACE CONDITION OF THE EXISTING PAVEMENT (DEGREE OF POROSITY, FOR EXAMPLE). THE FABRIC ALONE, UNDER HEAT OF THE OVERLAY, WILL ABSORB AT LEAST 0.20 GALLON PER SQUARE YARD. WITHIN INTERSECTIONS OR OTHER ZONES WHERE VEHICLE BRAKING IS COMMON PLACE, THE APPLICATION SHALL BE REDUCED 20 PERCENT. THE SEALANT SHALL BE APPLIED TO AN AREA TWO TO SIX INCHES WIDER THAN THE WIDTHS OF THE FABRIC BEING PLACED, BUT RESTRICTED TO THE AREA OF IMMEDIATE FABRIC LAYDOWN. APPLICATION SHALL BE BY DISTRIBUTOR WITH HAND SPRAYING ALLOWED ONLY WHERE THE DISTRIBUTOR CANNOT BE USED. ASPHALT SPILLS SHALL BE CLEANED FROM THE ROAD SURFACE TO AVOID FLUSHING AND POSSIBLE MOVEMENT AT THESE ASPHALT RICH AREAS.

THE ASPHALT CEMENT USED AS A SEALANT SHALL HAVE DISTRIBUTOR TANK TEMPERATURE BETWEEN 300 DEGREES AND 350 DEGREES F. APPLICATION TEMPERATURE IS NOT CRITICAL AFTER THE ASPHALT IS SPRAYED ON THE PAVEMENT. IF THE FABRIC IS TO BE OVER-SPRAYED, DISTRIBUTOR TANK TEMPERATURES SHOULD NOT EXCEED 350 DEGREES F TO AVOID DAMAGE TO THE FABRIC.

3 COMPOSITE FABRIC PLACEMENT. THE COMPOSITE FABRIC SHALL BE PLACED ON THE ASPHALT SEALANT AS SOON AS PRACTICAL AND BEFORE THE TACKINESS OF THE SEALANT IS LOST. THE COMPOSITE SHALL BE PLACED AS SMOOTHLY AS POSSIBLE TO AVOID WRINKLES. IT SHALL BE UNROLLED SO THAT THE SOFT SIDE IS UNWOUND INTO THE SEALANT AND THE GRID SIDE UP, THUS PROVIDING OPTIMUM BOND BETWEEN FABRIC AND PAVEMENT DURING THE CONSTRUCTION PROCESS. WRINKLES SEVERE ENOUGH TO CAUSE "FOLDS" SHALL BE SLIT AND LAID FLAT. SMALL WRINKLES, WHICH FLATTEN UNDER COMPACTION ARE NOT DETRIMENTAL TO PERFORMANCE. THE COMPOSITE SHALL BE BROOMED OR SQUEEGED TO REMOVE AIR BUBBLES AND MAKE COMPLETE CONTACT WITH THE ROAD SURFACE AS RECOMMENDED BY THE FABRIC MANUFACTURER. THE FABRIC SHALL BE LAID STRAIGHT, WITHIN THE SEALANT AREA. MODERATE CURVES CAN BE NEGOTIATED BY STRETCHING THE FABRIC ON THE OUTSIDE OF THE CURVE BY ADJUSTING THE DRAG ON THE BRAKES OF THE LAYDOWN EQUIPMENT. TRANSVERSE JOINTS SHALL BE "SHINGLED" IN THE DIRECTION OF PAVING.

LONGITUDINAL JOINTS SHALL BE MADE BY OVERLAPPING THE FABRIC ONE TO TWO INCHES. TRANSVERSE JOINTS SHALL BE MADE BY OVERLAPPING THE FABRIC MINIMUM OF FOUR INCHES. ADDITIONAL SEALANT (ABOUT 0.20 GAL. PER SQ. YD.) SHALL BE ADDED TO THE JOINTS AS REQUIRED. THE ADDITIONAL SEALANT FOR TRANSVERSE JOINTS MAY BE APPLIED BY HAND SPRAYING OR WITH MOP AND BUCKET IF EXTREME CARE IS TAKEN TO NOT EXCEED THE SPECIFIED RATE.

TO ENHANCE THE BOND OF THE FABRIC WITH THE EXISTING PAVEMENT AND TO SMOOTH OUT ANY WRINKLES FOR FOLDS IN THE FABRIC, THE CONTRACTOR MAY BE REQUIRED TO PNEUMATICALLY ROLL THE FABRIC AFTER IT IS PLACED.

4 TREATMENT OF THE APPLIED COMPOSITE PRIOR TO THE ASPHALT CONCRETE. IT IS UNNECESSARY TO TACK COAT THE FABRIC PRIOR TO PLACEMENT OF THE OVERLAY UNLESS THERE ARE CIRCUMSTANCES SUCH AS DELAY OF OVERLAY, DUST ACCUMULATION OR UNDER APPLICATION OF SEALANT WHICH WOULD MAKE TACK COATING DESIRABLE. IF A TACK COAT IS REQUIRED, EMULSIFIED ASPHALT SHALL BE APPLIED AT A RATE OF 0.02 TO 0.05 GALLON PER SQUARE YARD RESIDUAL ASPHALT. PLACEMENT OF THE ASPHALT CONCRETE OVERLAY SHALL CLOSELY FOLLOW FABRIC LAYDOWN. IN THE EVENT THAT THE SEALANT BLEEDS THROUGH THE FABRIC BEFORE THE ASPHALT CONCRETE IS PLACED, IT MAY BE NECESSARY TO BLOT THE SEALANT BY SPREADING SAND OR ASPHALT CONCRETE OVER THE AFFECTED AREAS. THIS WILL PREVENT ANY TENDENCY FOR CONSTRUCTION EQUIPMENT TO PICK UP THE FABRIC WHEN DRIVING OVER IT.

TURNING OF THE PAVER AND OTHER VEHICLES SHALL BE GRADUAL TO AVOID MOVEMENT OR DAMAGE TO THE COMPOSITE. UNESSENTIAL TRAFFIC ON COMPOSITE SHOULD BE ELIMINATED. IF IT IS NECESSARY TO OPEN THE ROAD TO TRAFFIC AFTER FABRIC PLACEMENT, BUT PRIOR TO PAVING, IT IS ADVISABLE TO SPREAD A SMALL AMOUNT OF SAND OVER THE MEMBRANE TO PREVENT TIRES FROM STICKING TO THE SEALANT OR PULLING UP THE COMPOSITE. THIS PRACTICE IS TO BE AVOIDED IF POSSIBLE TO PREVENT DAMAGE TO THE MEMBRANE. QUICK STOPS AND SHARP TURNS MAY DAMAGE THE MATERIAL. IF RAIN PRIOR TO THE OVERLAY SHOULD CAUSE A BLISTERED APPEARANCE AND SOME BOND LOSS THROUGHOUT THE MEMBRANE, IT SHOULD BE CORRECTED BY PNEUMATIC ROLLING UNTIL ADHESION IS RESTORED.

5 ASPHALT CONCRETE. THE ASPHALT CONCRETE OVERLAY SHALL CONFORM TO 401 SPECIFICATION WITH A MINIMUM THICKNESS OF 1.5"

METHOD OF MEASUREMENT. THE ACCEPTED FABRIC COMPOSITE PLACED IN ACCORDANCE WITH THESE SPECIFICATIONS AND AS DIRECTED WILL BE MEASURED BY THE SQUARE YARD OF ROADWAY, RAMPS, AND TURNOUTS COVERED BY THE COMPOSITE FABRIC. LAPS IN COMPOSITE FABRIC WILL NOT BE MEASURED.

BLOTTING THE SEALANT, SPREADING SAND OR ASPHALT CONCRETE OVER THE MEMBRANE TO PREVENT TIRES FROM STICKING TO THE SEALANT OR PULLING UP THE FABRIC, ROLLING TO RESTORE BOND, OR APPLICATION OF A TACK COAT WILL NOT BE MEASURED FOR DIRECT PAYMENT BUT SHALL BE CONSIDERED A NECESSARY PART OF THE CONSTRUCTION INVOLVED AND THE COST THEREFORE SHALL BE INCLUDED IN OTHER APPROPRIATE CONTRACT UNIT PRICES.

BASIS OF PAYMENT. THE ACCEPTED QUANTITIES OF PAVEMENT OVERLAY FABRIC COMPOSITE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS (INCLUDING ASPHALT SEALANT AND OVERLAP), TOOLS, EQUIPMENT AND INCIDENTALS FOR DOING ALL THE WORK INVOLVED IN FURNISHING AND PLACING THE COMPOSITE COMPLETE IN PLACE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

| ITEM    | UNIT        | DESCRIPTION                       |
|---------|-------------|-----------------------------------|
| SPECIAL | SQUARE YARD | PAVEMENT OVERLAY FABRIC COMPOSITE |

ITEM 614 AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SIGN, FREEWAY/EXPRESSWAY

THIS ITEM SHALL CONSIST OF THE FURNISHING, INSTALLING, MAINTAINING AND SUBSEQUENT REMOVAL, OF ONE AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SIGN ON YIELDING POST SUPPORTS.

ON THE FIRST DAY OF WORK, INSTALL ONE ARRA SIGN NEAR THE BEGINNING OF THE PROJECT IN EACH ROUTE DIRECTION IN A LOCATION AS APPROVED BY THE ENGINEER. THE ARRA SIGN CONSISTS OF ONE 120" X 84" WHITE ON GREEN EXTRUSHEET SIGN WITH PICTOGRAPHS, ONE 120" X 24" BLACK ON ORANGE EXTRUSHEET SIGN, AND ONE 24" X 24" DIAMOND FLAT SHEET SIGN. THE SIGN FABRICATION DETAILS ARE FOUND ON THE OFFICE OF TRAFFIC ENGINEERING WEB PAGE AT:

<http://www.dot.state.oh.us/Divisions/HighwayOps/Traffic/Pages/OTHomePage.aspx>

INSTALL THE SIGN ON THREE NO. 3 YIELDING POSTS AS PER STANDARD DRAWING TC-41.20, WITH ONE POST ON SIGN CENTERLINE AND ONE POST 12" FROM EACH END. SIGNS IN PROTECTED LOCATIONS MAY BE INSTALLED ON OTHER SUPPORTS AS APPROVED BY THE ENGINEER. USED SIGNS ARE ALLOWED PROVIDED THEY ARE IN A CONDITION ACCEPTABLE TO THE ENGINEER. REMOVE THE ARRA SIGN AND SUPPORTS AT THE END OF THE PROJECT. REMOVED ARRA SIGN AND SUPPORTS ARE THE PROPERTY OF THE CONTRACTOR.

THE BASIS OF PAYMENT SHALL BE AT THE CONTRACT UNIT BID PRICE PER EACH FOR ONE INSTALLED AND SUBSEQUENTLY REMOVED ARRA SIGN, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, TOOLS AND OTHER INCIDENTALS TO PROVIDE FOR A COMPLETE AND ACCEPTED ITEM OF WORK.

GENERAL NOTES

MED-76-0.61

30A  
138

ITEM 614. MAINTAINING TRAFFIC: GENERAL

ONE LANE OF TRAFFIC IN EACH DIRECTION ON IR-76 SHALL BE MAINTAINED AT ALL TIMES. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, PLAN DETAILS, STANDARD DRAWINGS, AND AS OUTLINED IN THE CONSTRUCTION AND MAINTENANCE SECTION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION WITH THE LATEST REVISIONS. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED ON THIS PLAN.

THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PAVEMENT THROUGHOUT THE PROJECT UNDER ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC DURING THE PERIOD FROM THE START OF WORK TO THE COMPLETION OF ALL WORK.

ESTIMATED QUANTITIES - MAINTENANCE OF TRAFFIC

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC.

ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 300 CU YD

ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

TEMPORARY WEDGES AT END OF RAMPS, PAVEMENT LAYER ENDS, APPROACH SLABS OR BRIDGE DECKS ARE TO BE CONSTRUCTED AS PER STANDARD DRAWING BP-3.1.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC.

ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 250 CU YD

ITEM 614. MAINTAINING TRAFFIC

ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHEN THEY ARE NOT APPLICABLE, WITH THE APPROVAL OF THE ENGINEER.

IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE OMUTCD, AND SUCH FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC, THE CONTRACTOR SHALL SUSPEND WORK UNTIL THE NECESSARY REQUIREMENTS ARE CORRECTED.

ALL MAINTENANCE OF TRAFFIC SIGNS ARE PAID UNDER ITEM 614 MAINTAINING TRAFFIC.

HOLIDAY WORK RESTRICTIONS

THERE WILL BE WORK RESTRICTIONS FOR THE HOLIDAYS LISTED BELOW. ALL WORK ON IR-76, RAMPS, AND US ROUTE AND STATE ROUTE STRUCTURE WORK SHALL NOT BE UNDER CONSTRUCTION DURING THE FOLLOWING HOLIDAYS: (NO WORK IS PERMITTED ON THESE DAYS)

|              |                |
|--------------|----------------|
| EASTER       | FOURTH OF JULY |
| MOTHER'S DAY | LABOR DAY      |
| MEMORIAL DAY | THANKSGIVING   |

THE PERIOD OF TIME THAT THE "NO WORK" APPLIES DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THE PERIOD OF TIME THAT "NO WORK" SHALL APPLY:

DAY OF THE WEEK

|           |                                     |
|-----------|-------------------------------------|
| WEEKENDS  | 12:00N FRIDAY THRU 6:00AM MONDAY    |
| MONDAY    | 12:00N FRIDAY THRU 6:00AM TUESDAY   |
| TUESDAY   | 12:00N MONDAY THRU 6:00AM WEDNESDAY |
| WEDNESDAY | 12:00N TUESDAY THRU 6:00AM THURSDAY |
| THURSDAY  | 12:00N WEDNESDAY THRU 6:00AM MONDAY |
| FRIDAY    | 12:00N THURSDAY THRU 6:00AM MONDAY  |

IN SUCH CASES WHERE DRUMS OR CONES ARE BEING USED AND IT IS SAFE TO OPEN THE LANES UP TO TRAFFIC, THE CONTRACTOR WILL BE REQUIRED TO OPEN THE LANES UP TO TRAFFIC DURING THE ABOVE HOLIDAYS.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH CMS 108.07.

WORK OPERATIONS

IN ADDITION TO THE REQUIREMENTS OF SECTION 614 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS THE FOLLOWING SHALL APPLY:

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAVEL WHERE PRACTICAL. A FLAGGER SHALL BE USED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. AMBER LIGHT SHALL BE VISIBLE TO ALL DIRECTIONS OF TRAFFIC A MINIMUM OF 0.25 MILE.

THE CONTRACTOR SHALL ARRANGE CONSTRUCTION OPERATIONS SO AS TO PREVENT ANY INTERFERENCE TO THE CONTINUOUS FLOW OF TRAFFIC. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO THE CLOSED LANES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY A MIN. OF 6 FT BEHIND GUARDRAIL OR 30 FT FROM THE NEAREST EDGE OF PAVEMENT WHEN VARIOUS OPERATIONS ARE SCHEDULED TO CONTINUE THE NEXT WORKDAY. ON WEEKENDS OR AT OTHER TIMES OF SUSPENSION OF WORK, THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE OF THE ROADWAY RIGHT-OF-WAY. THE LOCATION SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. ADEQUATE BARRICADES AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

MAINTENANCE OF TRAFFIC SCHEME

THE CONTRACTOR SHALL SCHEDULE THEIR WORK AND METHODS IN ORDER TO MEET THE INTENT OF THE PLANS. THE PAVEMENT SURFACES TO BE USED BY THE TRAVELING PUBLIC SHALL BE ABLE TO DRAIN FREELY. ALL COSTS TO MAINTAIN THE ROADWAY AS PER THE CONSTRUCTION AND MATERIALS SPECIFICATIONS AND THE PLANS SHALL BE INCLUDED IN ITEM 614 LUMP SUM MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

GENERAL LANE CLOSURE LIMITATIONS

THE INTENT OF THE LANE CLOSURE LIMITATIONS IN THIS PLAN NOTE IS TO SUPPLEMENT OTHER TIME LIMITATIONS WHICH APPEAR IN THIS CONTRACT.

THE FOLLOWING LANE CLOSURE RESTRICTIONS APPLY:

- 1.BETWEEN DECEMBER 1, 2009 THRU APRIL 14, 2010 NO LANES MAY BE CLOSED WITHOUT WRITTEN PERMISSION BY THE ENGINEER DUE TO POTENTIAL SNOW AND ICE OPERATIONS.
- 2.BETWEEN APRIL 15, 2010 THRU NOVEMBER 15, 2010, ONE LANE MAY BE CLOSED IN EACH DIRECTION.
- 3.BETWEEN NOVEMBER 16, 2010 THRU APRIL 15, 2011 NO LANES MAY BE CLOSED WITHOUT WRITTEN PERMISSION BY THE ENGINEER DUE TO POTENTIAL SNOW AND ICE OPERATIONS.
- 4.BETWEEN APRIL 16, 2011 THRU THE PROJECT COMPLETION DATE, ONE LANE MAY BE CLOSED IN EACH DIRECTION.

FAILURE OF THE CONTRACTOR TO MEET ANY OF THE ABOVE REQUIREMENTS ARE SUBJECT TO LIQUIDATED DAMAGES AS PER CMS 108.07.

ACTIVITIES DURING WINTER MONTHS

AFTER THE CONTRACTOR HAS SHUT DOWN CONSTRUCTION ACTIVITIES FOR THE WINTER, THE CONTRACTOR SHALL MAINTAIN THE PAVEMENT THROUGHOUT THE WINTER AND ODOT WILL PERFORM SNOW AND ICE OPERATIONS DURING THE WINTER MONTHS.

ITEM 614. WORK ZONE MARKING SIGN:

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR TEMPORARY WORK ZONE MARKING SIGNS PER THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS, 614.04.

WORK ZONE MARKING SIGN: (OW-167-36) NO EDGE LINE = 20 EACH

ITEM 614. LAW ENFORCEMENT OFFICER WITH PATROL CAR

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICIAL PATROL CAR WITH MOUNTED EMERGENCY FLASHING LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS AS DIRECTED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

LAW ENFORCEMENT OFFICERS (LEO'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES AND PROVIDE 72 HOURS ADVANCE NOTICE AS REQUIRED BY THE HIGHWAY PATROL LISTED BELOW:

STATE HIGHWAY PATROL  
3149 FRANTZ RD  
MEDINA, OHIO 44256  
330-725-4921

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614-LAW ENFORCEMENT OFFICER WITH PATROL CAR. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 120 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE.

ITEM 614. REPLACEMENT SIGN

FLAT SHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE USED BUT GOOD CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614 REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 10 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

ITEM 614. REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614 REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 100 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

PAVEMENT MARKINGS AFTER STAGES 1 AND 2

WHEN BOTH STAGES 1 AND 2 PAVEMENT SURFACE COURSE HAS BEEN COMPLETED AND BY NOVEMBER 15, 2010, PAVEMENT MARKINGS FOR LANE LINES AND EDGE LINES SHALL BE PLACED USING ITEM 642 TYPE 1 MATERIAL. THE PAVEMENT MARKINGS SHALL BE PLACED SUCH THAT THEY INCLUDE THE PAVEMENT TAPER AREAS USED IN THE MAINTENANCE OF TRAFFIC PHASING. IT IS ESTIMATED THAT THE PAVEMENT MARKINGS NEED TO BE REPLACED FROM STATION 940+20 TO STATION 1222+00. THE FOLLOWING PAY ITEMS ARE PROVIDED FOR THIS USE AND CARRIED TO THE GENERAL SUMMARY:

ITEM 642 EDGE LINE, TYPE 1 21.36 MILE (10.68 MILES EACH YELLOW AND WHITE)  
ITEM 642 LANE LINE, TYPE 1 10.68 MILE

REVISED: 10/30/09

ITEM 614. WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS MAY BE CERTIFIED FROM ONE OF THE FOLLOWING ORGANIZATIONS:

1. AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (ATSSA), PHONE NUMBER 1-800-272-8772, CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS).
2. NATIONAL HIGHWAY INSTITUTE, DESIGN AND OPERATION OF WORK ZONE TRAFFIC CONTROL, PHONE NUMBER 1-703- 235-0528.
3. THE OHIO CONTRACTORS ASSOCIATION, TRAFFIC CONTROL SUPERVISOR (OCA/TCS) WORK ZONE CLASS, ONLY IF TAKEN AFTER MAY 5, 2004, PHONE NUMBER 1-614-599-7915.
4. OHIO LABORERS TRAINING, TRAFFIC CONTROL SUPERVISORS CLASS, PHONE NUMBER 1-740-599-7915.

A COPY OF EACH WTS'S CERTIFICATION AND 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7) THE CONTRACTOR MAY DESIGNATE AN ALTERNATE WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY. EACH WTS SHALL HAVE A CURRENT WTS CERTIFICATION (WITH AN EXPIRATION DATE NO MORE THAN 5 YEARS FROM THE DATE OF ISSUE) FROM ANY OF THE APPROVED ORGANIZATIONS.

THE WTS POSITION HAS THE RESPONSIBILITY OF MONITORING TRAFFIC CONTROL DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS, AND BE ABLE TO BE ON SITE FOR ALL EMERGENCY TRAFFIC CONTROL NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF AND BE PREPARED TO EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TRAFFIC CONTROL DEVICES.
2. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TRAFFIC CONTROL MANAGEMENT IS DISCUSSED.
3. BE AVAILABLE FOR MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST OR WITHIN 36 HOURS.
4. BE AWARE OF, AND COORDINATE IF NECESSARY, ALL TRAFFIC CONTROL OPERATIONS, INCLUDING THOSE OF SUBCONTRACTORS AND SUPPLIERS.
5. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). A WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEO'S WHILE THEY ARE ON THE PROJECT.
6. COORDINATE MEETINGS WITH ODOT PERSONNEL, LEO'S AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS WORK ZONE TRAFFIC CONTROL.
7. ENSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS FOR SIGNS, BARRICADES, TEMPORARY CONCRETE BARRIER, PAVEMENT MARKINGS, PORTABLE MESSAGE SIGNS, AND OTHER TRAFFIC CONTROL DEVICES ON A DAILY BASIS; AND FACILITATE ANY CORRECTIVE ACTION NECESSARY.
8. NOTIFY THE CONTRACTOR OF THE NEED FOR CLEANING AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES, INCLUDING THE COVERING AND REMOVAL OF INAPPLICABLE SIGNS.
9. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TRAFFIC CONTROL DEVICES AND/OR TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, A WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:
  - A. INITIAL TRAFFIC CONTROL SETUP (DAY AND NIGHT REVIEW).
  - B. DAILY TRAFFIC CONTROL SETUP AND REMOVAL.
  - C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TRAFFIC CONTROL SETUP.
  - D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA.
  - E. REMOVAL OF TRAFFIC CONTROL DEVICES AT THE END OF A PHASE OR PROJECT.
  - F. ALL OTHER EMERGENCY TRAFFIC CONTROL NEEDS.
10. COMPLETE THE DEPARTMENT APPROVED LONG TERM INSPECTION FORM (CA-D-8) AFTER EACH INSPECTION AS REQUIRED IN \* 9 AND SUBMIT IT TO THE ENGINEER THE FOLLOWING WORK DAY. THESE REPORTS SHALL INCLUDE A CHECKLIST OF ALL TRAFFIC CONTROL MAINTENANCE ITEMS TO BE REVIEWED. A COPY OF THE FORM WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING. ANY DEFICIENCIES OBSERVED SHALL BE NOTED, ALONG WITH RECOMMENDED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THIS DOCUMENT CAN BE FOUND IN THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION INSPECTION FORMS MANUAL DATED 10/15/06 OR CURRENT REVISION.
11. VERIFY THAT ALL FLAGGING OPERATIONS ARE BEING CONDUCTED PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
12. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND APPLICABLE STANDARDS AND SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

THE DEPARTMENT WILL NOT PAY THE UNIT PRICE BID FOR THE WTS FOR ANY DAY ON WHICH THE CONTRACTOR FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. SHOULD THE CONTRACTOR'S FAILURE TO PERFORM ANY OF THE DUTIES DESCRIBED ABOVE RESULT IN A MAINTENANCE OF TRAFFIC SAFETY ISSUE, THE DEPARTMENT WILL DEDUCT THE PRORATED DAILY AMOUNT FOR ITEM 614 MAINTENANCE OF TRAFFIC FROM THE CONTRACTOR'S NEXT SCHEDULED ESTIMATE.

IF THREE OR MORE FAILURES TO PERFORM THE DUTIES SET FORTH ABOVE OCCUR, THE WTS SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR THE WORKSITE TRAFFIC SUPERVISOR:

ITEM 614 WORKSITE TRAFFIC SUPERVISOR 13 MONTHS

ITEM 614. BARRIER REFLECTOR, TYPE B

BARRIER REFLECTORS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS AND THEIR INSTALLATION SHALL CONFORM TO CMS 626, EXCEPT THAT THE SPACING SHALL BE 50 FEET. BARRIER REFLECTORS SHALL BE STACKED IN SETS OF 3 BARRIER REFLECTORS PER SET AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.70.

AN ESTIMATED QUANTITY OF 9515 EACH OF ITEM 614 BARRIER REFLECTOR, TYPE B HAS BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

BUTT JOINTS

BUTT JOINTS SHALL NOT BE CUT AND LEFT OPEN TO TRAFFIC. THEY SHALL BE FILLED IN WITH A TEMPORARY ASPHALT CONCRETE WEDGE USING ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

CONSTRUCTION "BUMP" (W8-1-36) AND "ADVISORY SPEED" (W13-1-24) SIGNS SHALL BE ERECTED AND MAINTAINED DURING THE PERIOD THE BUTT JOINT IS LEFT OPEN. THESE SIGNS SHALL BE PAID FOR UNDER THE LUMP SUM ITEM FOR ITEM 614 MAINTAINING TRAFFIC.

614 WORK ZONE INCREASED PENALTIES SIGN

R11-H5a SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

THE SIGNS SHALL BE DUAL MOUNTED ON THE MAINLINE AND PLACED PER STANDARD CONSTRUCTION DRAWING MT-95.50.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE REFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF CMS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 20 EACH

TEMPORARY CROSSOVER

THE HORIZONTAL AND VERTICAL CURVES IN THE TEMPORARY CROSSOVERS ARE DESIGNED FOR 55 MPH AND THE WORK ZONE HAS A SPEED LIMIT OF 55 MPH. THE ADVISORY SPEED LIMIT ENTERING THE TEMPORARY CROSSOVER SHALL BE 45 MPH.

ALL SIGNING AS PER MT-95.70 SHALL BE PAID FOR UNDER ITEM 614 MAINTAINING TRAFFIC.

614 WORK ZONE SPEED LIMIT SIGN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, COVER DURING SUSPENSION OF WORK, AND SUBSEQUENTLY REMOVE WORK ZONE SPEED LIMIT SIGNS AND SUPPORTS (R2-1) (55 MPH SPEED LIMIT) WITHIN THE WORK LIMITS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

THE CONTRACTOR SHALL COVER OR REMOVE ANY EXISTING SPEED LIMIT OR MINIMUM SPEED LIMIT SIGNS WITHIN THE REDUCED SPEED ZONE. THESE SIGNS SHALL BE RESTORED DURING SUSPENSION OR TERMINATION OF THE REDUCED SPEED LIMIT. THE EXPENSE OF COVERING OR REMOVAL AND RESTORATION OF EXISTING SPEED LIMIT OR MINIMUM SPEED LIMIT SIGNS SHALL BE INCLUDED IN THE PAY ITEM FOR THE WORK ZONE SPEED LIMIT SIGNS.

THE WORK ZONE SPEED LIMIT SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

SPEED REDUCTION SIGNS (W3-5) SHALL BE ERECTED IN ADVANCE OF THE SPEED REDUCTION AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-95.50. A SIGN TO INDICATE THE RESUMPTION OF THE STATUTORY SPEED LIMIT SHALL BE ERECTED AT THE END OF ANY REDUCED SPEED ZONE, TYPICALLY AT THE POINT WHERE ROADWAY AND SHOULDER WIDTHS RETURN TO NORMAL. ON DIVIDED HIGHWAYS WHERE THE SPEED LIMIT VARIES BY VEHICLE TYPE, THE R2-1 (SPEED LIMIT) SIGN AND THE R2-H2a (TRUCK SPEED LIMIT) SIGNS SHALL BE MOUNTED SIDE-BY-SIDE ON SEPARATE SUPPORTS. THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE REFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF CMS 730.19.

THE WORK ZONE SPEED LIMIT SIGNS SHALL BE DUAL MOUNTED ON THE MAINLINE, BE MOUNTED ON TWO (2) ITEM 630 GROUND MOUNTED SUPPORTS, NO. 3 POSTS, AND PLACED PER STANDARD CONSTRUCTION DRAWING MT-95.50.

WORK ZONE SPEED LIMIT SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGNS AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION WITHIN THE PROJECT DUE TO CHANGES IN THE SPEED ZONE DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE IN PLACE, WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVING OF THE SIGNS AND SUPPORTS. SPEED LIMIT SIGNING FOR THE POINT OF RESUMPTION OF THE STATUTORY SPEED LIMIT SHALL BE PAID FOR AS WORK ZONE SPEED LIMIT SIGNS. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

614 WORK ZONE SPEED LIMIT SIGN 64 EACH  
614 SPEED ZONE AHEAD SYMBOL SIGN 4 EACH

ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN

THE PAVEMENT COMPOSITION SHALL CONSIST OF 1.5 INCHES OF SURFACE COURSE INSTEAD OF 1.25 INCHES OF SURFACE COURSE AS STATED IN ITEM 615 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS. BOTH INTERMEDIATE AND SURFACE COURSES SHALL BE DESIGNED AS HEAVY MIX DESIGNS.

ITEM 615 ROADS FOR MAINTAINING TRAFFIC

AS PART OF THE TEMPORARY CROSSOVER CONSTRUCTION, A 12" DRAINAGE PIPE WILL BE REQUIRED TO BE PLACED UNDER THE CROSSOVERS. AT THE WEST END CROSSOVERS, 225 FT OF 12" PIPE IS REQUIRED. AT THE EAST END CROSSOVERS, 225 FT OF 12" PIPE IS ALSO REQUIRED. PAYMENT IS INCLUDED UNDER ITEM 615 ROADS FOR MAINTAINING TRAFFIC, LUMP SUM.

**ITEM 614. PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN**

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A PORTABLE CHANGEABLE MESSAGE SIGN, ON SITE, FOR THE DURATION OF THE PROJECT. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 650 FT. AND 475 FT., RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHOULD BE DELINEATED ON A PERMANENT BASIS BY AFFIXING RETROREFLECTIVE MATERIAL, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

THE PCMS LOCATIONS SHALL BE LOCATED IN ADVANCE OF THE BEGINNING AND END OF THE PROJECT TO NOTIFY THE TRAVELLING PUBLIC OF CONSTRUCTION WORK BEING DONE. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE TYPE G YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

(THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 6 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.)

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PREPROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PREPROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

(THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.)

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN  
26 SIGN-MONTH

**SEQUENCE OF CONSTRUCTION (I176 TEMPORARY CROSSOVER SECTION)**

ADDITIONAL MOT DETAILS AND NOTES ARE SHOWN IN THE PLAN AND PROFILE CROSSOVER SHEETS AND THE MAINTENANCE OF TRAFFIC TYPICAL SECTIONS. THE SEQUENCE OF CONSTRUCTION SHALL BE AS FOLLOWS:

**STAGE 1**

**PHASE 1:**

1. SHOULDER RECONSTRUCTION OF THE 10 FOOT WIDE OUTSIDE WESTBOUND PAVED SHOULDER FROM STA 966+96 TO STA 1195+00. THIS INCLUDES PLACING THE UNDERDRAINS.
2. 3.25" PLANING AND PAVING, 5 FT WIDE, OF THE 10 FOOT WIDE OUTSIDE WESTBOUND PAVED SHOULDER FROM STA 961+52 TO STA 966+96, AND FROM STA 1195+00 TO STA 1204+00.
3. 3.25" PLANING AND PAVING, 5 FT WIDE, OF THE 10 FOOT WIDE OUTSIDE EASTBOUND PAVED SHOULDER FROM STA 945+81 TO STA 950+50, AND FROM STA 960+00 TO STA 966+86.
4. 3.25" PLANING AND PAVING, 5 FT WIDE, OF THE 10 FOOT WIDE OUTSIDE EASTBOUND PAVED SHOULDER FROM STA 1195+00 TO STA 1200+39.

**PHASE 2:**

1. CLOSE THE PASSING LANE AND DIVERT TRAFFIC INTO THE DRIVING LANE AND CONSTRUCT THE TEMPORARY CROSSOVERS AT THE WEST END.

**PHASE 3:**

1. CLOSE THE PASSING LANE AND DIVERT TRAFFIC INTO THE DRIVING LANE AND CONSTRUCT THE TEMPORARY CROSSOVERS AT THE EAST END. PHASES 2 AND 3 MAY BE CONSTRUCTED AT THE SAME TIME.

**PHASE 4:**

1. MOVE EASTBOUND TRAFFIC INTO THE WESTBOUND PASSING LANE UTILIZING THE TEMPORARY CROSSOVER THAT WAS JUST BUILT.
2. CONSTRUCT EASTBOUND LANES UP TO THE INTERMEDIATE COURSE FROM STA 966+96 TO STA 1195+00. THIS WORK INCLUDES UNDERDRAINS, PERFORMING CONCRETE PAVEMENT REPAIRS, PLACING ASPHALT CONCRETE, AND PLACING WORK ZONE PAVEMENT MARKINGS.

**STAGE 2**

**PHASE 1:**

1. MOVE WESTBOUND TRAFFIC INTO THE EASTBOUND PASSING LANE UTILIZING THE TEMPORARY CROSSOVER THAT WAS BUILT.
2. CONSTRUCT WESTBOUND LANES FROM STA 966+86 TO STA 1195+00, INCLUDING 5 FT WIDE PLANING AND PAVING, 3.25" DEEP, OF THE OUTSIDE PAVED SHOULDER. THIS WORK INCLUDES AN UNDERDRAIN ON THE MEDIAN SHOULDER, PERFORMING CONCRETE PAVEMENT REPAIRS, PLACING ASPHALT CONCRETE, LINEAR GRADING, COMPACTED AGGREGATE, AND PLACING WORK ZONE PAVEMENT MARKINGS.

**PHASE 2:**

1. PERFORM LINEAR GRADING, PLACE SURFACE COURSE IN EASTBOUND LANES FROM STA 966+86 TO STA 1195+00, PLACE COMPACTED AGGREGATE, AND WORK ZONE PAVEMENT MARKINGS.

**SEQUENCE OF CONSTRUCTION (I176 PART WIDTH CONSTRUCTION)**

ADDITIONAL MOT DETAILS ARE SHOWN IN THE MAINTENANCE OF TRAFFIC TYPICAL SECTIONS. THE SEQUENCE OF CONSTRUCTION SHALL BE AS FOLLOWS:

**STAGE 3**

**PHASE 1:**

1. MOVE TRAFFIC INTO PASSING LANE FOR EASTBOUND DIRECTION AND RECONSTRUCT 10 FT WIDE PAVED OUTSIDE SHOULDER AND REPLACE UNDERDRAINS FROM STA 853+00 TO STA 966+86 AND FROM STA 1195+00 TO 1222+00.
2. MOVE TRAFFIC INTO PASSING LANE FOR WESTBOUND DIRECTION AND RECONSTRUCT 4 FT WIDE PAVED INSIDE SHOULDER AND REPLACE UNDERDRAIN FROM STA 853+00 TO STA 966+96 AND FROM STA 1195+00 TO 1222+00. ALSO PLACE ITEM 617 FOR SHOULDER BACKUP.

**PHASE 2:**

1. MOVE TRAFFIC INTO DRIVING LANE FOR EASTBOUND DIRECTION AND PERFORM CONCRETE PAVEMENT REPAIRS, RECONSTRUCT PASSING LANE AND INSIDE SHOULDER UP TO INTERMEDIATE COURSE, REPLACE UNDERDRAIN FROM STA 853+00 TO STA 966+96 AND FROM STA 1195+00 TO 1222+00, AND APPLY WORK ZONE PAVEMENT MARKINGS.
2. MOVE TRAFFIC INTO DRIVING LANE FOR WESTBOUND DIRECTION AND PERFORM CONCRETE PAVEMENT REPAIRS, RECONSTRUCT PASSING LANE AND OUTSIDE SHOULDER UP TO INTERMEDIATE COURSE, REPLACE UNDERDRAINS FROM STA 853+00 TO STA 966+96 AND FROM STA 1195+00 TO 1222+00, AND APPLY WORK ZONE PAVEMENT MARKINGS.

**PHASE 3:**

1. MOVE TRAFFIC INTO PASSING LANE FOR EASTBOUND DIRECTION AND PERFORM CONCRETE PAVEMENT REPAIRS, RECONSTRUCT DRIVING LANE UP TO INTERMEDIATE COURSE FROM STA 853+00 TO STA 966+96 AND FROM STA 1195+00 TO 1222+00, PLACE 3 FT TAPERED WEDGE, AND APPLY WORK ZONE PAVEMENT MARKINGS.
2. MOVE TRAFFIC INTO PASSING LANE FOR WESTBOUND DIRECTION AND PERFORM CONCRETE PAVEMENT REPAIRS, RECONSTRUCT DRIVING LANE UP TO INTERMEDIATE COURSE FROM STA 853+00 TO STA 966+96 AND FROM STA 1195+00 TO 1222+00, PLACE 3 FT TAPERED WEDGE, AND APPLY WORK ZONE PAVEMENT MARKINGS.

**PHASE 4:**

1. PERFORM LINEAR GRADING.
2. REMOVE 3 FT TAPERED WEDGE AND PLACE SURFACE COURSE FULL WIDTH IN BOTH DIRECTIONS.
3. PLACE COMPACTED AGGREGATE ON SHOULDERS.
4. PLACE FINAL PAVEMENT MARKINGS, RPM'S, BARRIER REFLECTORS AND RUMBLE STRIPS ON ENTIRE LENGTH OF THE PROJECT.

**SEQUENCE OF CONSTRUCTION (SR 3 RAMPS)**

THE DEFINITION OF THE RAMP LIMITS ARE FROM THE INTERSECTION WITH THE SIDE ROAD AT THE SIDE ROAD'S EDGE LINE AND DOWN THE RAMP TO THE GORE AREA WHERE THE COMMON PAVEMENT BETWEEN THE RAMP AND THE MAINLINE ENDS IN THE GRASSY AREA. THE SEQUENCE OF CONSTRUCTION FOLLOWS:

**PHASE 1:**

1. CONSTRUCTION CAN ONLY BE BETWEEN 9:00PM TO 6:00AM.
2. USE DRUMS FOR PART WIDTH MAINTENANCE OF TRAFFIC.
3. PLANE DOWN TO THE CONCRETE (APPROX. 4"), AND MATCH THAT DEPTH ACROSS THE PAVED SHOULDERS.
4. PLACE WORK ZONE PAVEMENT MARKINGS.
5. PLACE UNDERDRAIN AND MILL AND FILL THE 6 FT WIDE PAVED SHOULDER WITH 5" OF ITEM 301 WHILE MAINTAINING TRAFFIC ON THE 16 FT WIDE RAMP.
6. MOVE TRAFFIC ONTO THE 6 FT WIDE SHOULDER AND PERFORM CONCRETE PAVEMENT REPAIRS, UNDERDRAIN REPLACEMENT, MILL AND FILL THE 4 FT WIDE SHOULDER WITH 3" OF ITEM 301, PLACE TACK COAT AND THE INTERMEDIATE COURSE.
7. PLACE TRAFFIC ON THE 4 FT WIDE SHOULDER AND PERFORM CONCRETE PAVEMENT REPAIRS, PLACE TACK COAT AND THE INTERMEDIATE COURSE.
8. PERFORM LINEAR GRADING.
8. PLACE SURFACE COURSE.
9. PLACE COMPACTED AGGREGATE, FINAL PAVEMENT MARKINGS, AND RPM'S.

WITH THE UNDERSTANDING THAT NOT ALL THIS WORK CAN BE DONE IN ONE NIGHT, THE CONTRACTOR WILL BE RESPONSIBLE FOR OPENING UP THE RAMP IN THE MORNING AND MEETING THE DROPOFFS IN WORK ZONES REQUIREMENTS. ALL MAINTENANCE OF TRAFFIC WILL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC UNLESS OTHERWISE SHOWN IN THE PLANS.

**SEQUENCE OF CONSTRUCTION (SR 57 WESTBOUND ENTRANCE RAMP)**

THE DEFINITION OF THE RAMP LIMITS ARE FROM THE INTERSECTION WITH THE SIDE ROAD AT THE SIDE ROAD'S EDGE LINE AND DOWN THE RAMP TO THE GORE AREA WHERE THE COMMON PAVEMENT BETWEEN THE RAMP AND THE MAINLINE ENDS IN THE GRASSY AREA. THE SEQUENCE OF CONSTRUCTION FOLLOWS:

**PHASE 1:**

1. USE DRUMS FOR PART WIDTH MAINTENANCE OF TRAFFIC.
2. PLANE DOWN TO THE CONCRETE (APPROX. 4"), AND MATCH THAT DEPTH ACROSS THE PAVED SHOULDERS.
3. PLACE WORK ZONE PAVEMENT MARKINGS.
4. PLACE UNDERDRAIN AND MILL AND FILL THE 7 FT WIDE PAVED SHOULDER WITH 5" OF ITEM 301 WHILE MAINTAINING TRAFFIC ON THE 16 FT WIDE RAMP.
6. MOVE TRAFFIC ONTO THE 7 FT WIDE SHOULDER AND PERFORM CONCRETE PAVEMENT REPAIRS, UNDERDRAIN REPLACEMENT, MILL AND FILL THE 3 FT WIDE SHOULDER WITH 3" OF ITEM 301, PLACE TACK COAT AND THE INTERMEDIATE COURSE.
7. PLACE TRAFFIC ON THE 3 FT WIDE SHOULDER AND PERFORM CONCRETE PAVEMENT REPAIRS, PLACE TACK COAT AND THE INTERMEDIATE COURSE.
8. PERFORM LINEAR GRADING.
8. PLACE SURFACE COURSE.
9. PLACE COMPACTED AGGREGATE, FINAL PAVEMENT MARKINGS, AND RPM'S, AND PERFORM GUARDRAIL WORK.

**PROJECT INTERIM COMPLETION DATES**

1. DUE TO THE WORK IN THE INTERCHANGE AREA OF I-71 AND I-76 ON THE ADJOINING MED-71-6.06 PROJECT, THE CONTRACTOR IS LIMITED IN THEIR WORK SUCH THAT AT THE WEST END OF THE PROJECT, STAGE 3 WORK MUST NOT BEGIN UNTIL AFTER STAGES 1 AND 2 HAVE BEEN COMPLETED.

2. THE SURFACE COURSE AND INTERIM PAVEMENT MARKINGS FOR STAGES 1 AND 2 SHALL BE COMPLETED ON OR BEFORE NOVEMBER 15, 2010. THE WESTBOUND WEIGH STATION RAMPS FROM THE GORE AREA TO THE PARKING LOT AND THE WEIGH STATION PARKING LOT WORK IS EXEMPT AND IS TO BE PERFORMED DURING THE 2011 SEASON. DRUMS ARE TO BE PLACED ALONG THE MAINLINE SHOULDER AS PER STD DWG MT-98.29.

3. FINAL (THERMOPLASTIC) PAVEMENT MARKINGS ARE TO BE PLACED WHEN ALL PAVEMENT WORK HAS BEEN COMPLETED FOR THE ENTIRE PROJECT WHICH IS IN THE 2011 CONSTRUCTION SEASON.

4. FAILURE OF THE CONTRACTOR TO MEET ANY OF THE ABOVE REQUIREMENTS THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN THE AMOUNT PER CMS 108.07.

**SR 3 RAMP WORK NOTIFICATIONS**

THE CONTRACTOR IS TO PROVIDE THEIR WORK SCHEDULE TO SCHNEIDER TRUCKING 7 CALENDAR DAYS PRIOR TO WORKING ON THE SR 3 RAMPS. THIS SCHEDULE SHOULD BE SIMPLIFIED AND THE INFORMATION PROVIDED MUST BE COORDINATED WITH THIS TRUCKING COMPANY. THE TELEPHONE NUMBER TO SCHNEIDER TRUCKING IS 1-330-769-1111. DOCUMENTATION IS TO BE PROVIDED TO THE ENGINEER WITHIN 2 WORKING DAYS OF THIS NOTIFICATION TO ENSURE COMPLIANCE PRIOR TO THE WORK BEING PERFORMED. WORK IS NOT TO START ON THESE RAMPS UNTIL THIS REQUIREMENT IS MET.

**ITEM 614. WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL)**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ONE OF THE FOLLOWING IMPACT ATTENUATORS:

1. THE QUADGUARD CZ, (24 INCHES WIDE SIX-BAY) WORK ZONE IMPACT ATTENUATOR MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC., 35 EAST WACKER DRIVE, CHICAGO, IL 60601 (TELEPHONE: 312-467-6750).

THE LENGTH OF THE SIX-BAY QUADGUARD CZ IS 20'-9". INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NUMBER: QSCZCVR-T4  
DRAWING NAME: QUADGUARD CZ SYSTEM FOR CONSTRUCTION ZONES  
REVISION DATE: 5/13/99 REV. J  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35-40-10  
DRAWING NAME: QUADGUARD SYSTEM CONCRETE PAD, CZ, OG  
REVISION DATE: 11/19/97 REV. D  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35-40-16  
DRAWING NAME: QUADGUARD SYSTEM BACKUP ASSEMBLY, CZ, OG  
REVISION DATE: 7/30/99 REV. F  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 354051Z  
DRAWING NAME: QUADGUARD CZ SYSTEM NOSE ASSEMBLY, CZ, OG, 24, 30, 36  
REVISION DATE: 5/17/99  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35-40-18  
DRAWING NAME: TRANSITION ASSEMBLY, 4 OFFSET, OG  
REVISION DATE: 6/25/99 REV. F  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35400260  
DRAWING NAME: QUADGUARD SYSTEM PCMB ANCHOR ASSEMBLY  
REVISION DATE: 11/19/97 REV. C  
ODOT APPROVAL DATE: 8/27/99

2. THE TRACC (TRINITY ATTENUATING CRASH CUSHION) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE TRACC IS 21'-0" LONG AND 2'-7" WIDE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NUMBER: SS450  
DRAWING NAME: CRASH-CUSHION ATTENUATING TERMINAL PLAN, ELEV & SECTIONS  
REVISION DATE: 3/12/99 REV. 1  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: SS455  
DRAWING NAME: TRACC TRANSITION TO W-BEAM MEDIAN BARRIER PLAN, ELEVATION & SECTIONS  
REVISION DATE: 2/18/99  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: SS461  
DRAWING NAME: TRACC TRANSITION TO CONCRETE SAFETY SHAPE BARRIER PLAN, ELEVATION & SECTIONS  
REVISION DATE: 6/30/99 REV. 1  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: SS462  
DRAWING NAME: TRACC TRANSITION TO CONCRETE BARRIER SINGLE SLOPE PLAN, ELEVATION & SECTIONS  
REVISION DATE: 6/30/99  
ODOT APPROVAL DATE: 8/27/99

3. THE BARRIER SYSTEMS, INC. TAU-II IMPACT ATTENUATOR, DISTRIBUTED BY ROAD SYSTEMS INC., SALES SUPPORT, 2183 ELM TRACE, AUSTINTOWN, OH 44515, (TELEPHONE 330-799-9291)

THE TAU-II FOR THIS NOTE IS A PARALLEL 8-BAY UNIT (24' LONG AND 35" WIDE). INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NUMBER: A040416  
DRAWING NAME: UNIVERSAL TAU-II PARTS LIST  
REVISION DATE: 4/22/04  
ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER: A040420  
DRAWING NAME: UNIVERSAL TAU-II FOUNDATION, FLUSH MOUNT BACKSTOP  
REVISION DATE: 4/28/04  
ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER: A040105  
DRAWING NAME: UNIVERSAL TAU-II FOUNDATION, PCB BACKSTOP  
(REFERENCED ON

A04020)  
REVISION DATE: 1/07/04  
ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER: B040239  
DRAWING NAME: APPLICATION, FLUSH MOUNT BACKSTOP (TYPICAL FOR PARALLEL 60 MPH UNIT)  
REVISION DATE: 4/21/04  
ODOT APPROVAL DATE: 10/16/04

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT. WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS. PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

**ITEM 614 WORK ZONE CROSSOVER LIGHTING SYSTEM**

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING, OPERATING, MAINTAINING AND REMOVING A WORK ZONE LIGHTING SYSTEM FOR A SINGLE CROSSOVER, OR OVERLAPPING A PAIR OF CROSSOVERS. THE SYSTEM SHALL BE AS SHOWN ON SCD MT-100.00. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 625 AND 725 EXCEPT: THE PERFORMANCE TEST OF 625.19F, AND CERTIFIED DRAWING REQUIREMENT OF 625.04, ARE WAIVED AND USED MATERIALS IN GOOD CONDITION ARE ACCEPTABLE.

POLES WHICH ARE NOT PROTECTED BY GUARDRAIL OR PORTABLE CONCRETE BARRIER SHALL BE LOCATED OUTSIDE THE CLEAR ZONE, AND SHOULD BE LOCATED AT LEAST 30 FT FROM THE EDGE OF PAVEMENT. ADDITIONAL POLE LINES, CABLES AND APPURTENANCES NECESSARY TO FURNISH POWER TO THE LIGHTING SYSTEM SHALL BE INCLUDED IN THIS ITEM. SERVICE POLES SHALL BE POSITIONED WITH THE SAME CONSTRAINTS AS THE LIGHTING POLES AS A MINIMUM.

PAYMENT WILL BE MADE AT THE UNIT PRICE PER EACH FOR ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM THROUGHOUT ALL PHASES OF WORK WHEN THE CROSSOVER ROADWAYS ARE USED.

**ITEM 253. PAVEMENT REPAIR, AS PER PLAN  
ITEM 253. PAVEMENT REPAIR, MISC.: PARTIAL DEPTH**

PRIOR TO PLACING PORTABLE CONCRETE BARRIER, THE CONTRACTOR IS REQUIRED TO PERFORM PAVEMENT REPAIRS ON THE MAINLINE WHERE TRAFFIC WILL BE MAINTAINED. THE INTENT IS TO PERFORM ENOUGH PAVEMENT REPAIRS PRIOR TO PLACING PCB AND SHIFTING TRAFFIC, SO WE CAN MINIMIZE ANY PAVEMENT BLOWUPS WHILE TRAFFIC IS DRIVING IN THAT LANE.

THE OTHER GENERAL NOTE FOR ITEM 253 PAVEMENT REPAIR REQUIREMENTS ALSO APPLY TO THESE ITEMS OF WORK, WITH A MAXIMUM DEPTH OF ASPHALT CONCRETE REPLACEMENT BEING THE DEPTH OF THE EXISTING ASPHALT CONCRETE ABOVE THE CONCRETE PAVEMENT.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIRS. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM 253 PAVEMENT REPAIR, MISC.: PARTIAL DEPTH AND ITEM 253 PAVEMENT REPAIR, AS PER PLAN. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 253 PAVEMENT REPAIR, MISC.: PARTIAL DEPTH 500 CU. YD.  
ITEM 253 PAVEMENT REPAIR, AS PER PLAN 175 CU. YD.

**ITEM 203 EXCAVATION  
ITEM 203 EMBANKMENT**

THESE ITEMS ARE TO BE USED IN THE MEDIAN FOR SOFT AND WET SOILS PRIOR TO CONSTRUCTING THE TEMPORARY CROSSOVERS. AN ESTIMATED QUANTITY OF ITEM 203 EXCAVATION AND ITEM 203 EMBANKMENT HAVE BEEN PROVIDED TO BE USED FOR THIS PURPOSE.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY FOR ITEM 203 EXCAVATION AND ITEM 203 EMBANKMENT. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD OF ITEM 203 EXCAVATION AND PER CU YD OF ITEM 203 EMBANKMENT. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

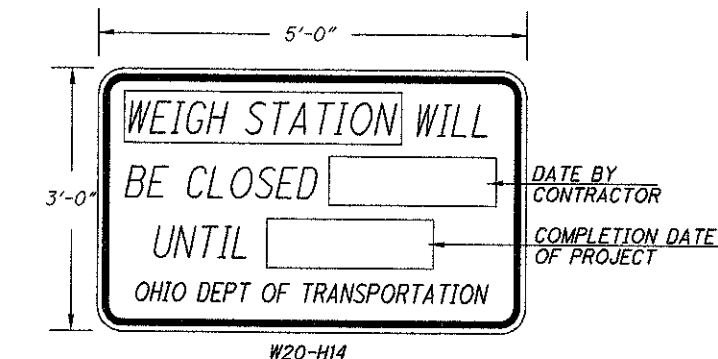
ITEM 203 EXCAVATION 50 CU YD  
ITEM 203 EMBANKMENT 50 CU YD

**DUST CONTROL**

AN ESTIMATED QUANTITY OF 10 MGAL OF ITEM 616 WATER IS INCLUDED IN THE GENERAL SUMMARY TO BE USED FOR DUST CONTROL.

**NOTICE OF CLOSURE SIGNS**

THIS SIGN SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED WESTBOUND WEIGH STATION CLOSURE AT THE ENTRANCE RAMP. THE SIGN SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE RAMP FACING TRAFFIC. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE SIGN INCLUDING SUPPORTS.



**WEIGH STATION USE**

THE CONTRACTOR MAY USE THE WEIGH STATIONS AS EQUIPMENT AND MATERIAL STORAGE AND FIELD OFFICES FOR THIS PROJECT ONLY. THESE AREAS ARE TO BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION ON OR BEFORE THE CONTRACT COMPLETION DATE. THE HIGHWAY PATROL PLANS TO HAVE THE WEST BOUND WEIGH STATION OPERATIONAL AFTER THE COMPLETION OF THIS PROJECT.

**ABANDONED REST AREA USE**

THE CONTRACTOR MAY USE THE ABANDONED REST AREAS LOCATED NEAR STATION 1060+00 AS EQUIPMENT AND MATERIAL STORAGE AND FIELD OFFICES FOR THIS PROJECT ONLY. NOTE THAT THERE ARE ABANDONED WATER WELLS ON THESE SITES. THESE AREAS ARE TO BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION ON OR BEFORE THE CONTRACT COMPLETION DATE.

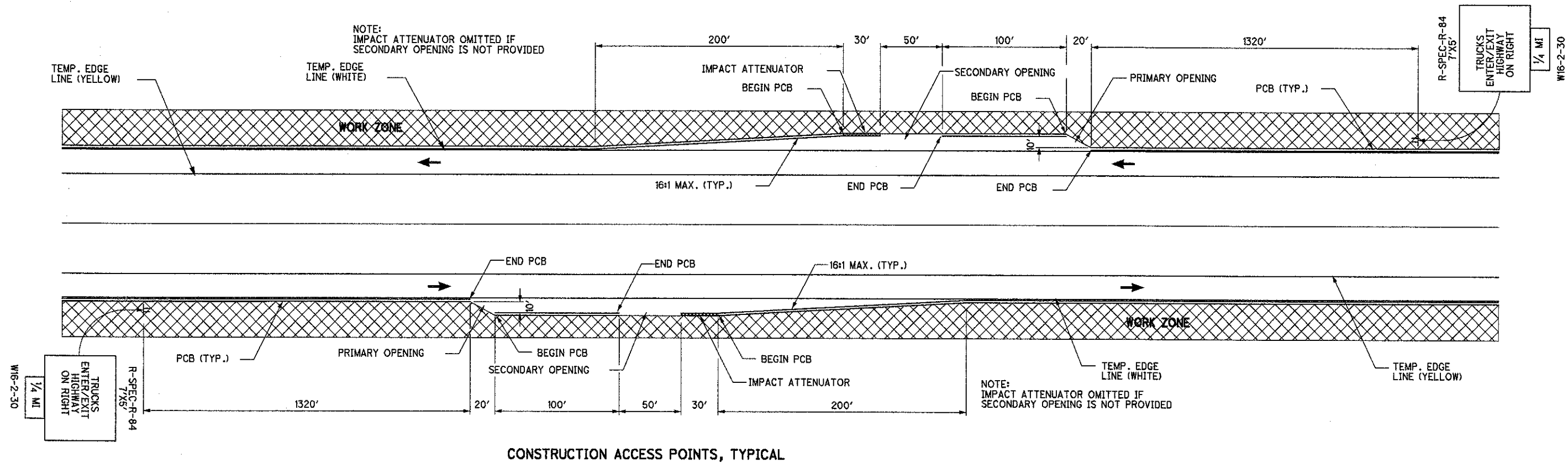
**622 PORTABLE CONCRETE BARRIER, 50". AS PER PLAN  
622 PORTABLE CONCRETE BARRIER, 50". BRIDGE MOUNTED, AS PER PLAN**

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A 50-INCH PORTABLE CONCRETE BARRIER (PCB) AT THE LOCATIONS SHOWN ON THE PLANS. FOR DETAILS SEE SCD RM-4.1. PLEASE NOTE THAT SCD RM-4.1 WAS UPDATED 10-20-06 TO PROVIDE A PCB WHICH IS COMPATIBLE WITH NCHRP 350 CRITERIA.

PORTABLE CONCRETE BARRIER, 32 INCHES HIGH WITH AN 18-INCH MINIMUM HEIGHT GLARE SCREEN MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE GLARE SCREEN SHALL BE CONSTRUCTED USING ONE OF THE SCREENS PROVIDED ON THE APPROVED LIST, AVAILABLE ON THE OFFICE OF MATERIAL MANAGEMENT WEB PAGE. THE APPROVED LIST OF GLARE SCREENS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT, AND CHOOSING THE APPROVED LIST LINK.

PADDLE OR INTERMITTENT TYPE GLARE SCREENS SHALL BE DESIGNED USING A 20 DEGREE CUT-OFF ANGLE BASED ON TANGENT ALIGNMENT. THAT SPACING SHALL BE USED THROUGHOUT THE BARRIER LENGTH WITHOUT REGARD TO BARRIER CURVATURE. THE GLARE SCREEN SYSTEM SHALL BE SECURELY FASTENED TO THE 32-INCH PORTABLE CONCRETE BARRIER USING THE HARDWARE AND PROCEDURES SPECIFIED BY THE MANUFACTURER. FOR DIRECTIONS ON HOW TO INSTALL THE GLARE SCREEN AND THE BARRIER, SEE THE MANUFACTURER'S INSTRUCTIONS.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE CONCRETE BARRIER, 50 INCH, AS PER PLAN AND ITEM 622 PORTABLE CONCRETE BARRIER, 50 INCH, BRIDGE MOUNTED, AS PER PLAN



CONSTRUCTION ACCESS POINTS, TYPICAL

#### CONSTRUCTION ACCESS POINTS

CONSTRUCTION ACCESS POINT LOCATIONS MAY BE SELECTED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER. THEY SHALL BE IN ACCORDANCE WITH THE DETAILS ON THIS SHEET. THE LOCATIONS SHALL BE SELECTED FOR GOOD SIGHT DISTANCE AND EASE OF ACCESS FOR ENTERING VEHICLES (AVOID LOCATIONS JUST BEYOND CREST VERTICAL CURVES, ON CURVES TO THE SIDE OF THE ROAD WITH THE BARRIER, JUST BEYOND OVERHEAD STRUCTURES, ON UPGRADES, ETC.) IN THE EVENT THAT THE ENGINEER DETERMINES THAT AN ACCESS POINT DOES NOT FUNCTION IN A SAFE MANNER, THE ENGINEER SHALL ORDER IT IMMEDIATELY CLOSED AT NO COST TO THE STATE. ACCESS POINTS WHICH INCLUDE THE SECONDARY OPENING SHALL ALSO INCLUDE AN OPERABLE IMPACT ATTENUATOR AS DETAILED. WHEN AN IMPACT ATTENUATOR BECOMES INOPERABLE FOR ANY REASON, THE ENGINEER SHALL ORDER THE SECONDARY OPENING TO BE IMMEDIATELY CLOSED WITH THE PORTABLE CONCRETE BARRIER. ACCESS POINTS MAY BE RELOCATED, SUBJECT TO THE APPROVAL OF THE ENGINEER, AS NECESSARY TO ACCOMPLISH CONSTRUCTION ACTIVITIES.

ALL COSTS FOR RELOCATION OF PORTABLE CONCRETE BARRIER, INSTALLATION, REPAIR, REPLACEMENT, AND REMOVAL OF IMPACT ATTENUATORS, GRADING FOR ACCESS DRIVES AND RELATED COSTS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.



HORIZONTAL  
SCALE IN FEET

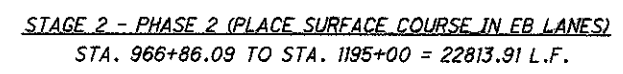
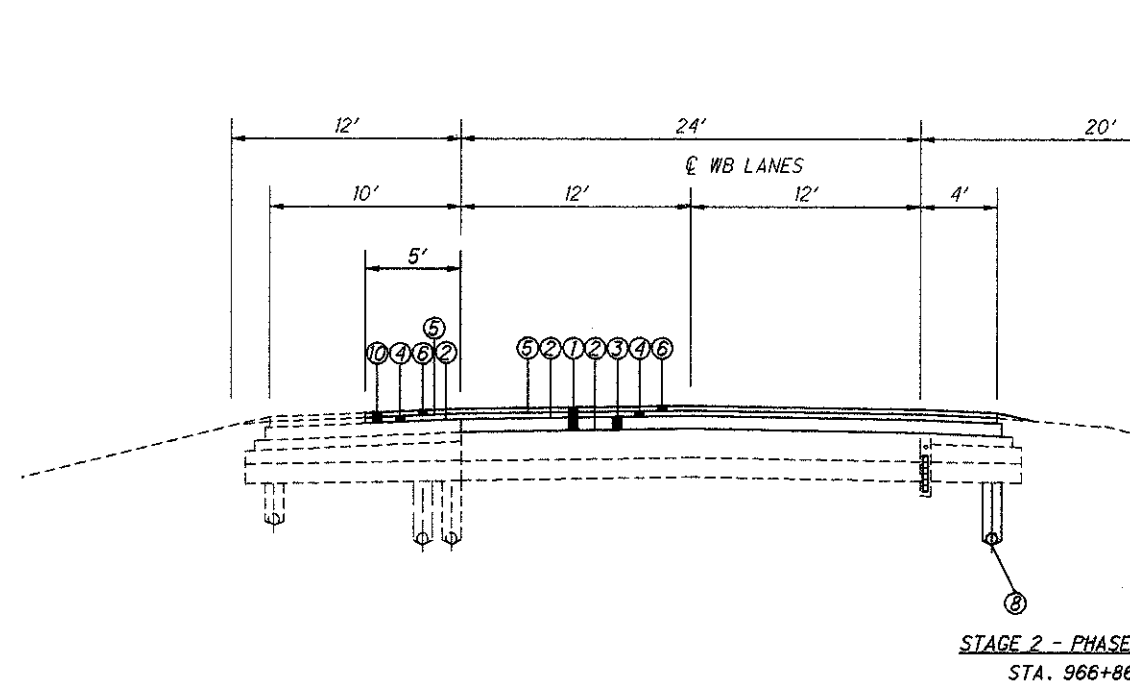
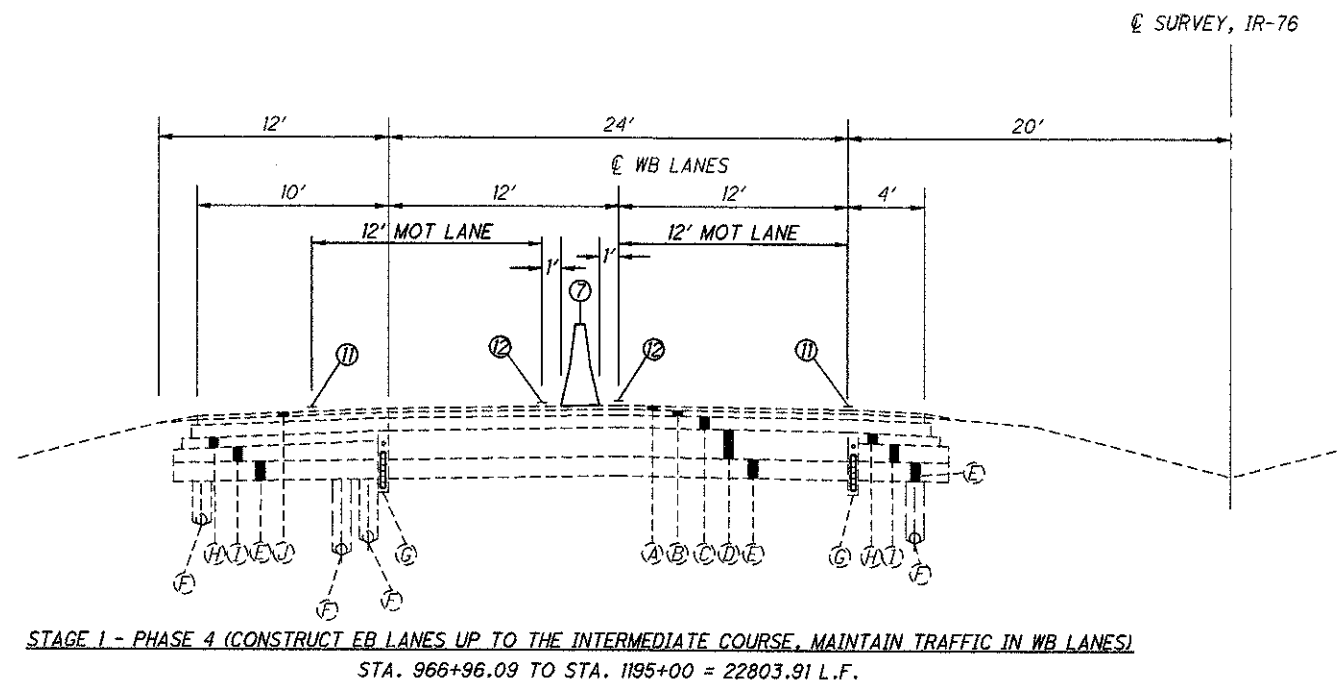
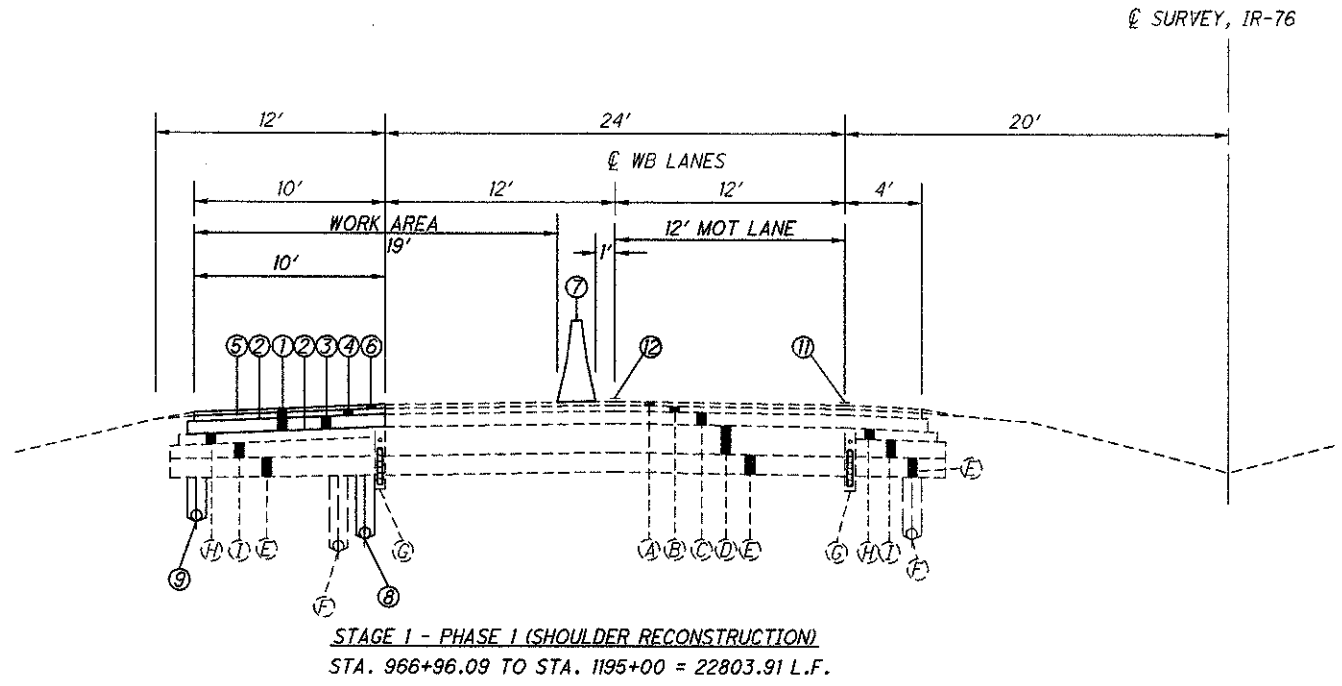
CALCULATED  
CHECKED

MAINTENANCE OF TRAFFIC  
CONSTRUCTION ACCESS POINTS, TYPICAL

MED-76-0.61

34A  
138

DESIGN FILE: I:\projects\77475\roadway\sheet\77475MY001.dgn  
WORKSTATION: mschafra DATE: 10/9/2009



- LEGEND - PROPOSED**
- ① ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (7")
  - ② ITEM 407 TACK COAT
  - ③ ITEM 301 ASPHALT CONCRETE BASE, PG 64-28, AS PER PLAN (4")
  - ④ ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446) (1.75")
  - ⑤ ITEM 407 TACK COAT FOR INTERMEDIATE COURSE
  - ⑥ ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446) (1.50")
  - ⑦ ITEM 622 50" PORTABLE CONCRETE BARRIER, AS PER PLAN
  - ⑧ ITEM 605 6" UNCLASSIFIED PIPE UNDERDRAINS
  - ⑨ ITEM 605 BASE PIPE UNDERDRAINS 18" (MAXIMUM DEPTH)
  - ⑩ ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (3.25")
  - ⑪ ITEM 614 WORK ZONE EDGE LINE (WHITE)
  - ⑫ ITEM 614 WORK ZONE EDGE LINE (YELLOW)

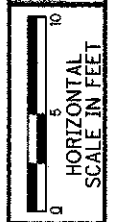
- LEGEND - EXISTING**
- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
  - Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
  - Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
  - Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
  - Ⓔ EXISTING 6" ± SUBBASE
  - Ⓕ EXISTING 6" UNDERDRAIN
  - Ⓖ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)
  - Ⓗ EXISTING VAR. THICKNESS (3" OR GREATER) BITUM. AGGREGATE BASE
  - Ⓙ EXISTING AGGREGATE BASE (INSIDE SHOULDER: T = 4 3/4"; OUTSIDE SHOULDER: T = 3")
  - ⓫ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/2")

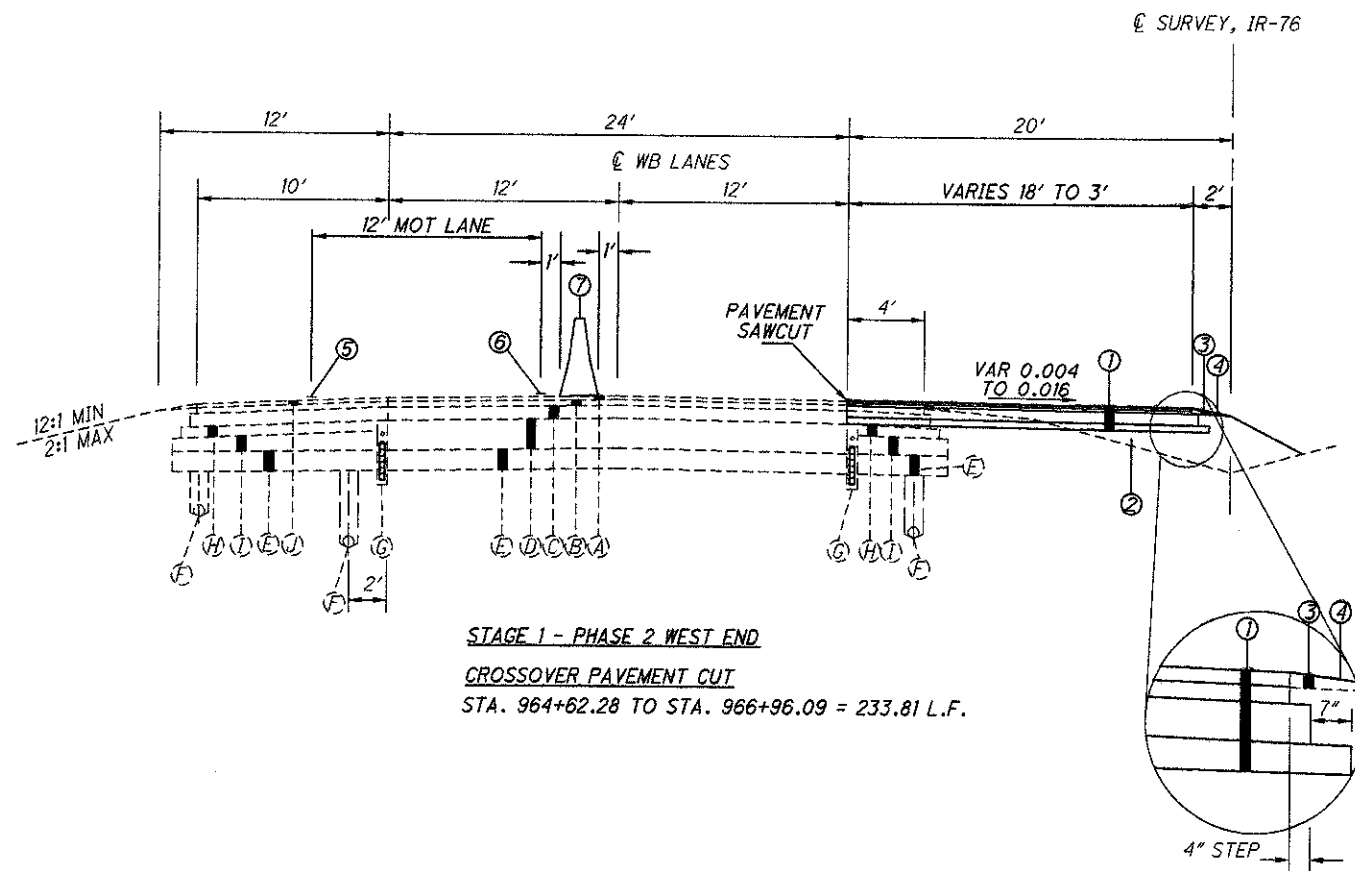
CALCULATED  
MJS  
CHECKED  
BAD

STAGE 1 - PHASES 1 & 4, STAGE 2 - PHASES 1 & 2

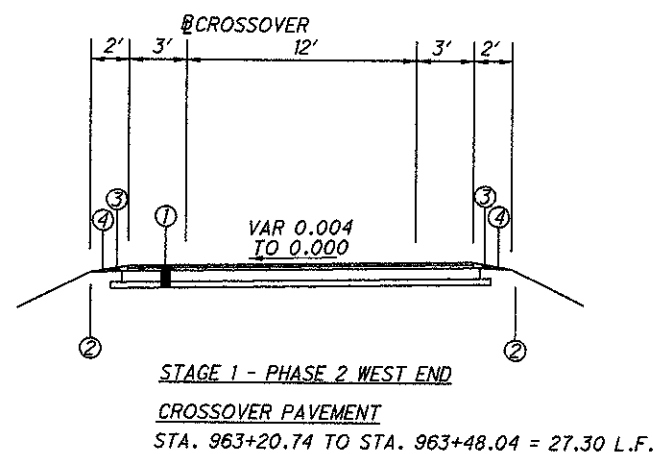
MED-76-0.61

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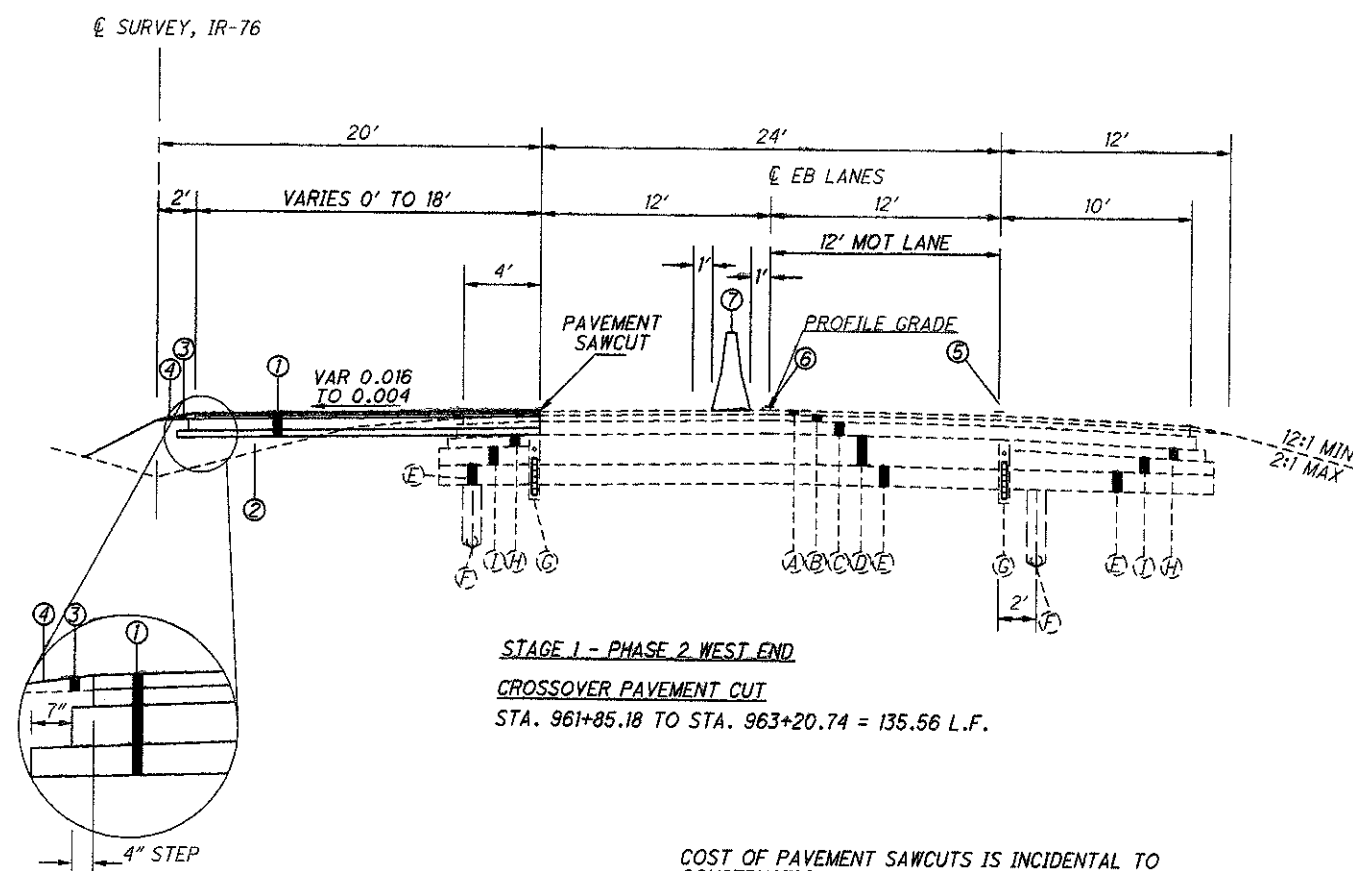




STAGE 1 - PHASE 2 WEST END  
 CROSSOVER PAVEMENT CUT  
 STA. 964+62.28 TO STA. 966+96.09 = 233.81 L.F.

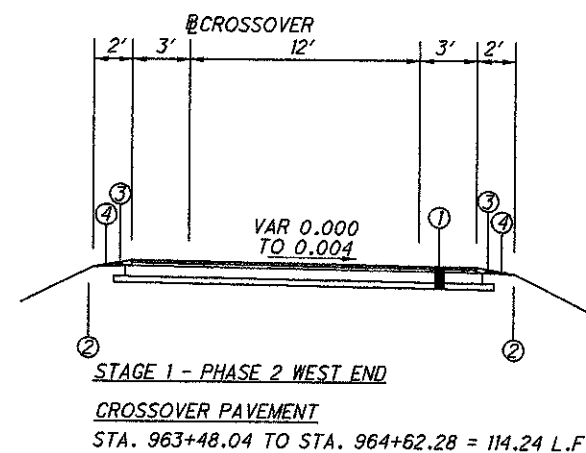


STAGE 1 - PHASE 2 WEST END  
 CROSSOVER PAVEMENT  
 STA. 963+20.74 TO STA. 963+48.04 = 27.30 L.F.



STAGE 1 - PHASE 2 WEST END  
 CROSSOVER PAVEMENT CUT  
 STA. 961+85.18 TO STA. 963+20.74 = 135.56 L.F.

COST OF PAVEMENT SAWCUTS IS INCIDENTAL TO CONSTRUCTION OF TEMPORARY CROSSOVER.

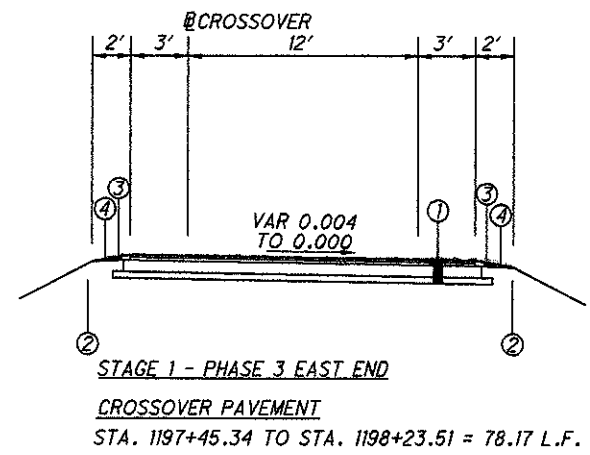
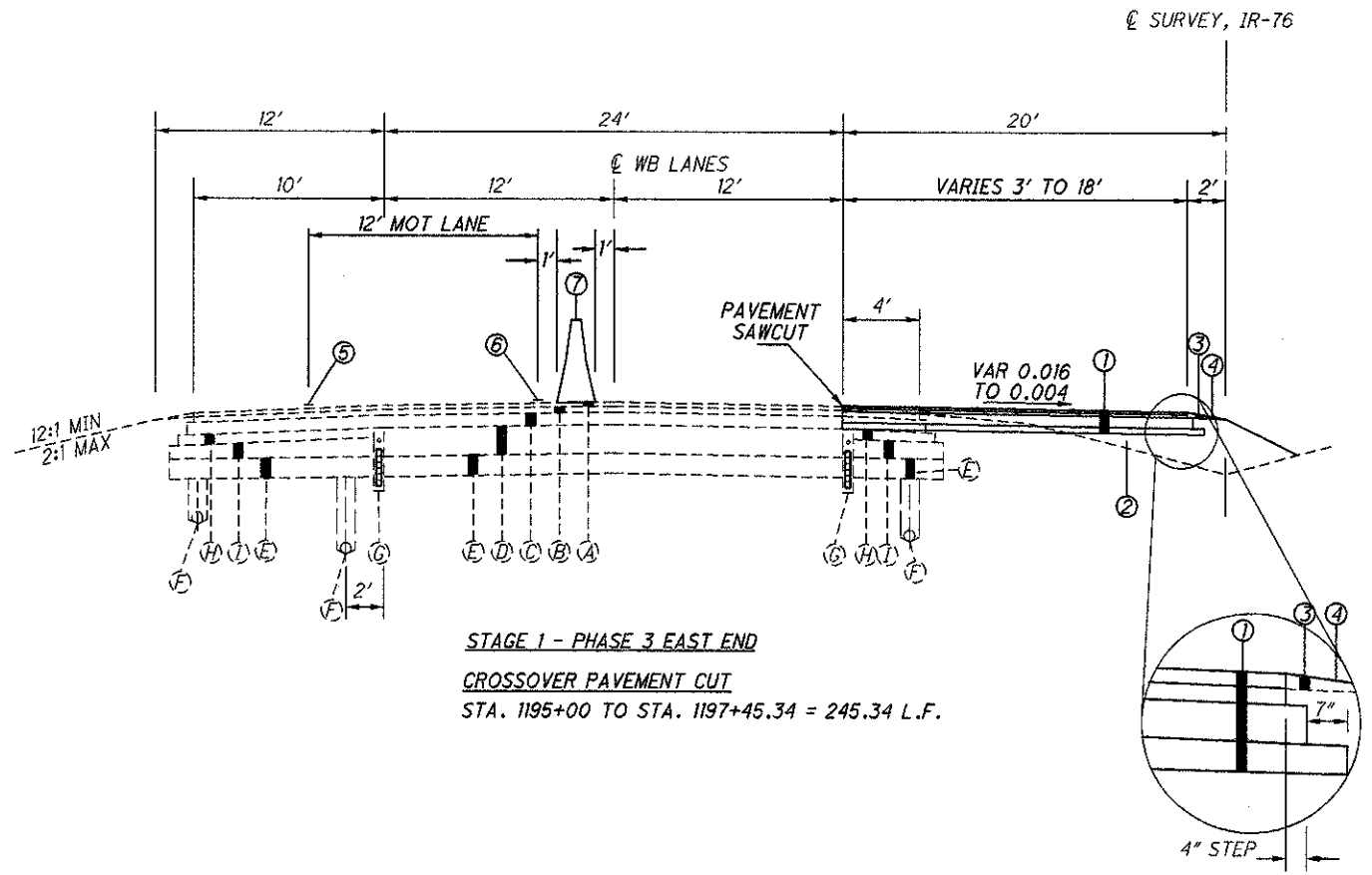


STAGE 1 - PHASE 2 WEST END  
 CROSSOVER PAVEMENT  
 STA. 963+48.04 TO STA. 964+62.28 = 114.24 L.F.

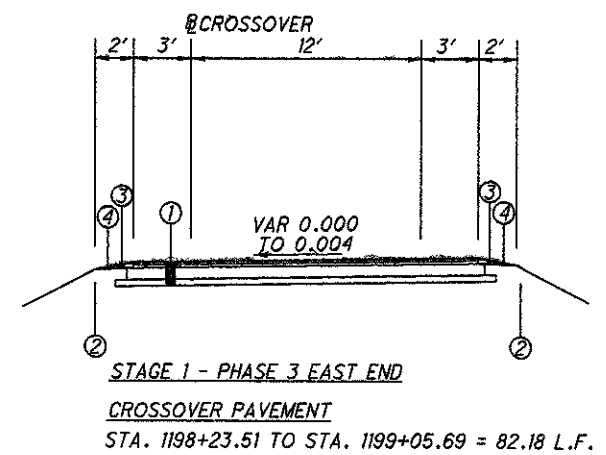
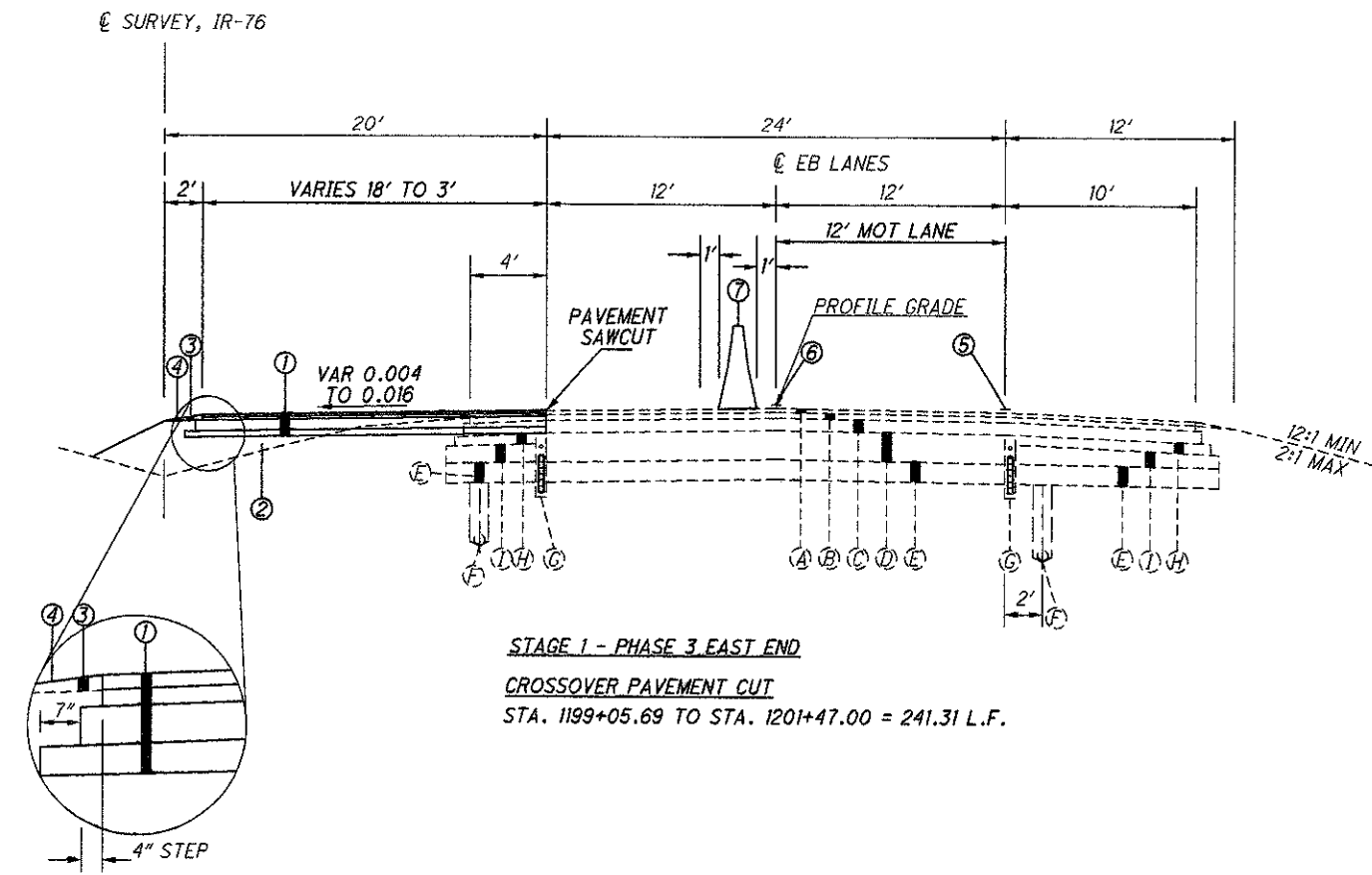
- LEGEND - PROPOSED**
- ① ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN
  - ② ITEM 615 ROADS FOR MAINTAINING TRAFFIC
  - ③ ITEM 617, COMPACTED AGGREGATE, AS PER PLAN
  - ④ ITEM 408 PRIME COAT
  - ⑤ ITEM 614 WORK ZONE EDGE LINE (WHITE)
  - ⑥ ITEM 614 WORK ZONE EDGE LINE (YELLOW)

- LEGEND - EXISTING**
- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
  - Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
  - Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
  - Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
  - Ⓔ EXISTING 6" ± SUBBASE
  - Ⓕ EXISTING 6" UNDERDRAIN
  - Ⓖ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)
  - Ⓗ EXISTING VAR. THICKNESS (3" OR GREATER) BITUM. AGGREGATE BASE
  - Ⓘ EXISTING AGGREGATE BASE (INSIDE SHOULDER: T = 4 3/4"; OUTSIDE SHOULDER: T = 3")
  - Ⓙ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/2")

DESIGN FILE: I:\projects\77475\roadway\sheet\77475MY001.dgn  
WORKSTATION:mschafra DATE:10/9/2009



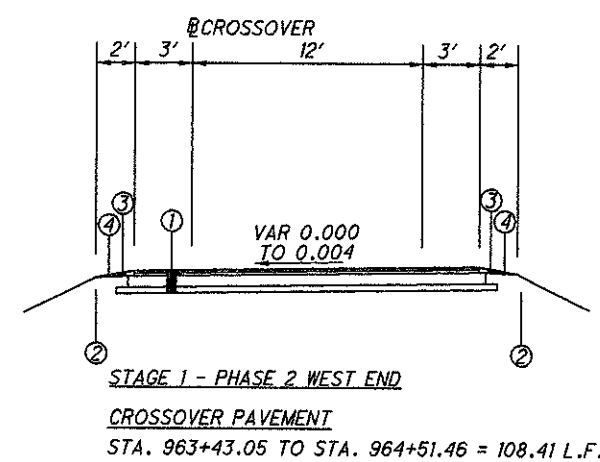
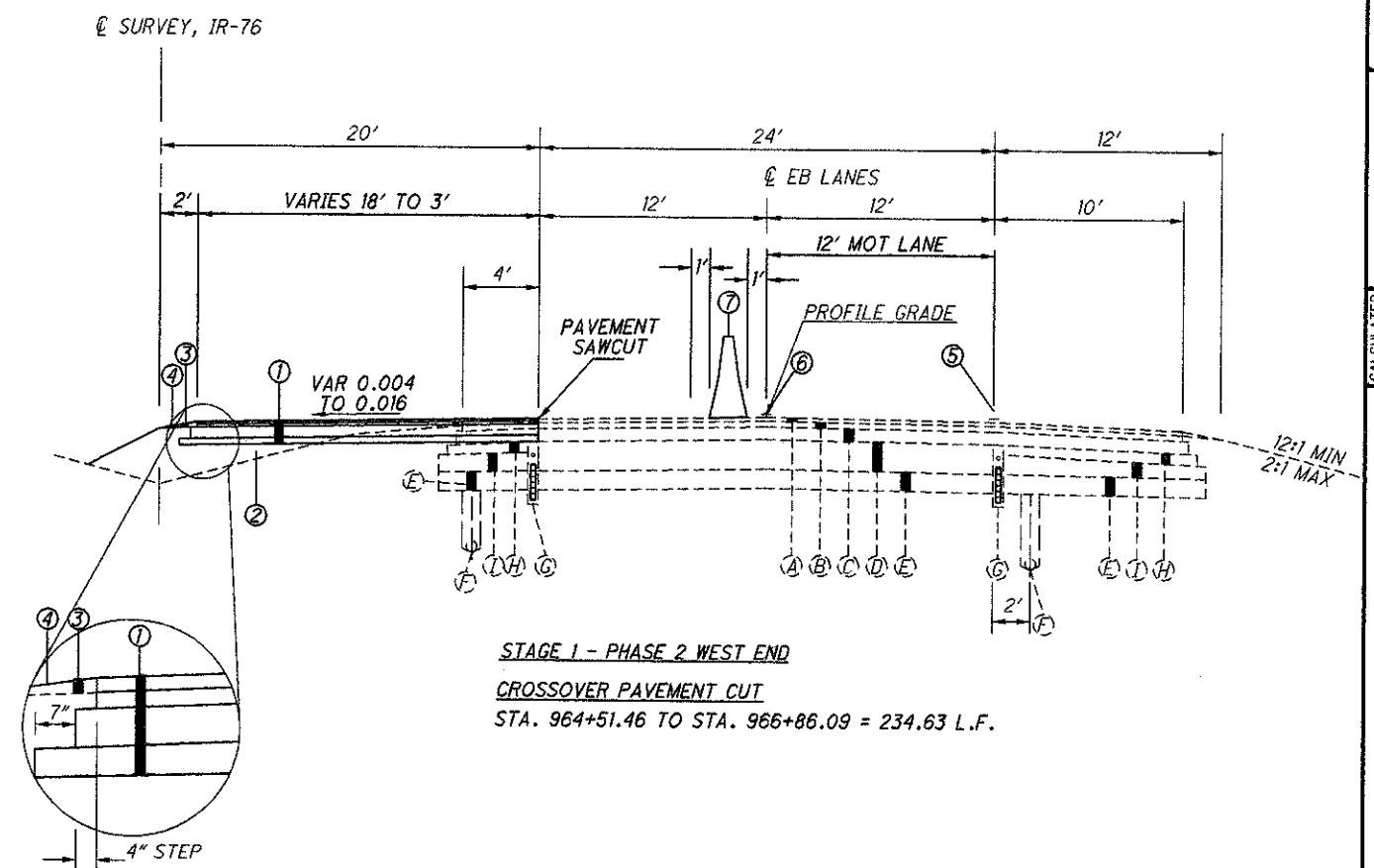
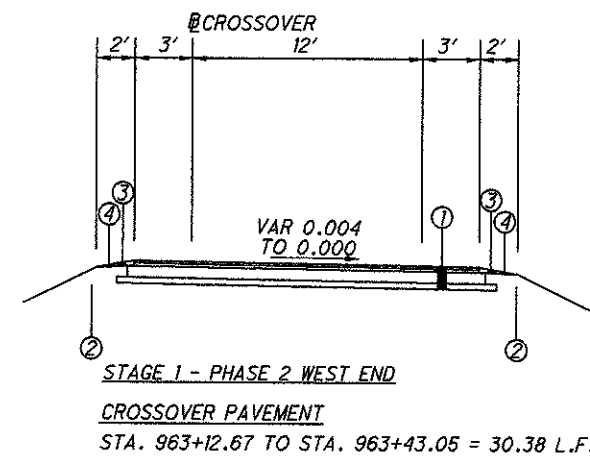
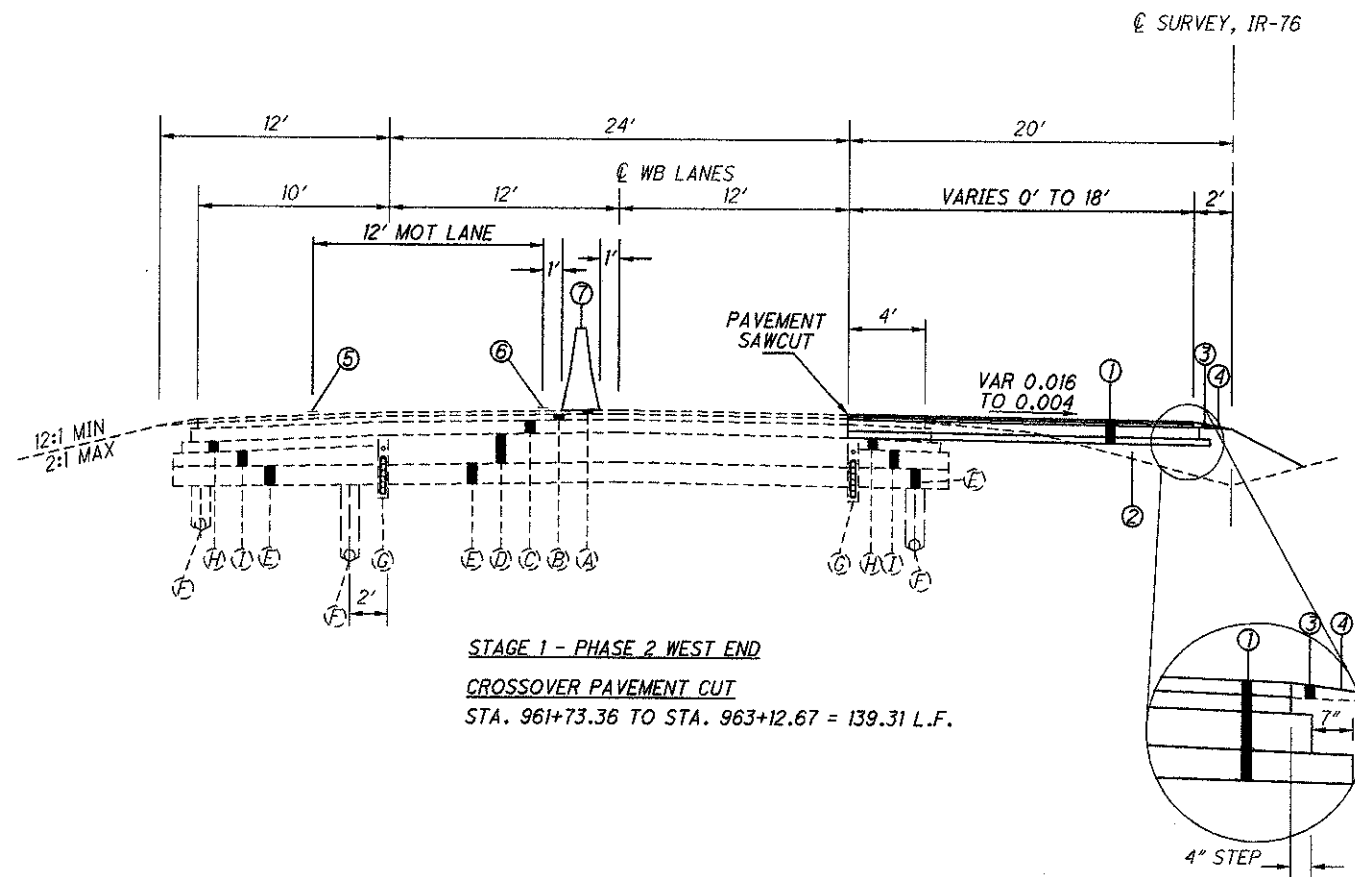
- LEGEND - PROPOSED**
- ① ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN
  - ② ITEM 615 ROADS FOR MAINTAINING TRAFFIC
  - ③ ITEM 617, COMPACTED AGGREGATE, AS PER PLAN
  - ④ ITEM 408 PRIME COAT
  - ⑤ ITEM 614 WORK ZONE EDGE LINE (WHITE)
  - ⑥ ITEM 614 WORK ZONE EDGE LINE (YELLOW)



- LEGEND - EXISTING**
- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
  - Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
  - Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
  - Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
  - Ⓔ EXISTING 6" ± SUBBASE
  - Ⓕ EXISTING 6" UNDERDRAIN
  - Ⓖ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)
  - Ⓗ EXISTING VAR. THICKNESS (3" OR GREATER) BITUM. AGGREGATE BASE
  - Ⓘ EXISTING AGGREGATE BASE (INSIDE SHOULDER: T = 4 3/4"; OUTSIDE SHOULDER: T = 3")

STAGE 1 - PHASE 3 CROSSOVER TYPICAL  
SECTIONS - EAST END

MED-76-0.61



- LEGEND - PROPOSED**
- ① ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN
  - ② ITEM 615 ROADS FOR MAINTAINING TRAFFIC
  - ③ ITEM 617, COMPACTED AGGREGATE, AS PER PLAN
  - ④ ITEM 408 PRIME COAT
  - ⑤ ITEM 614 WORK ZONE EDGE LINE (WHITE)
  - ⑥ ITEM 614 WORK ZONE EDGE LINE (YELLOW)

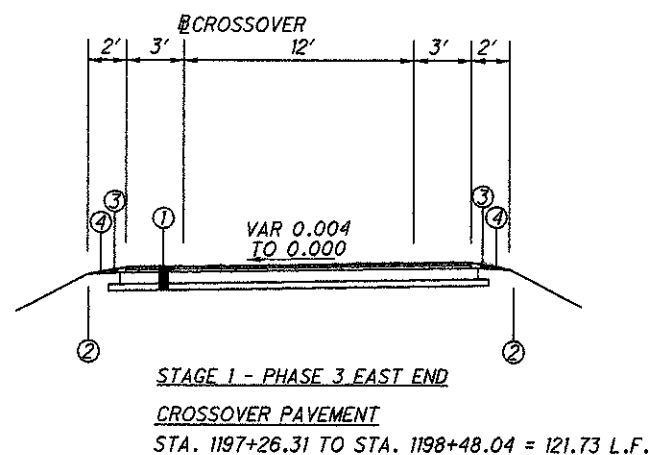
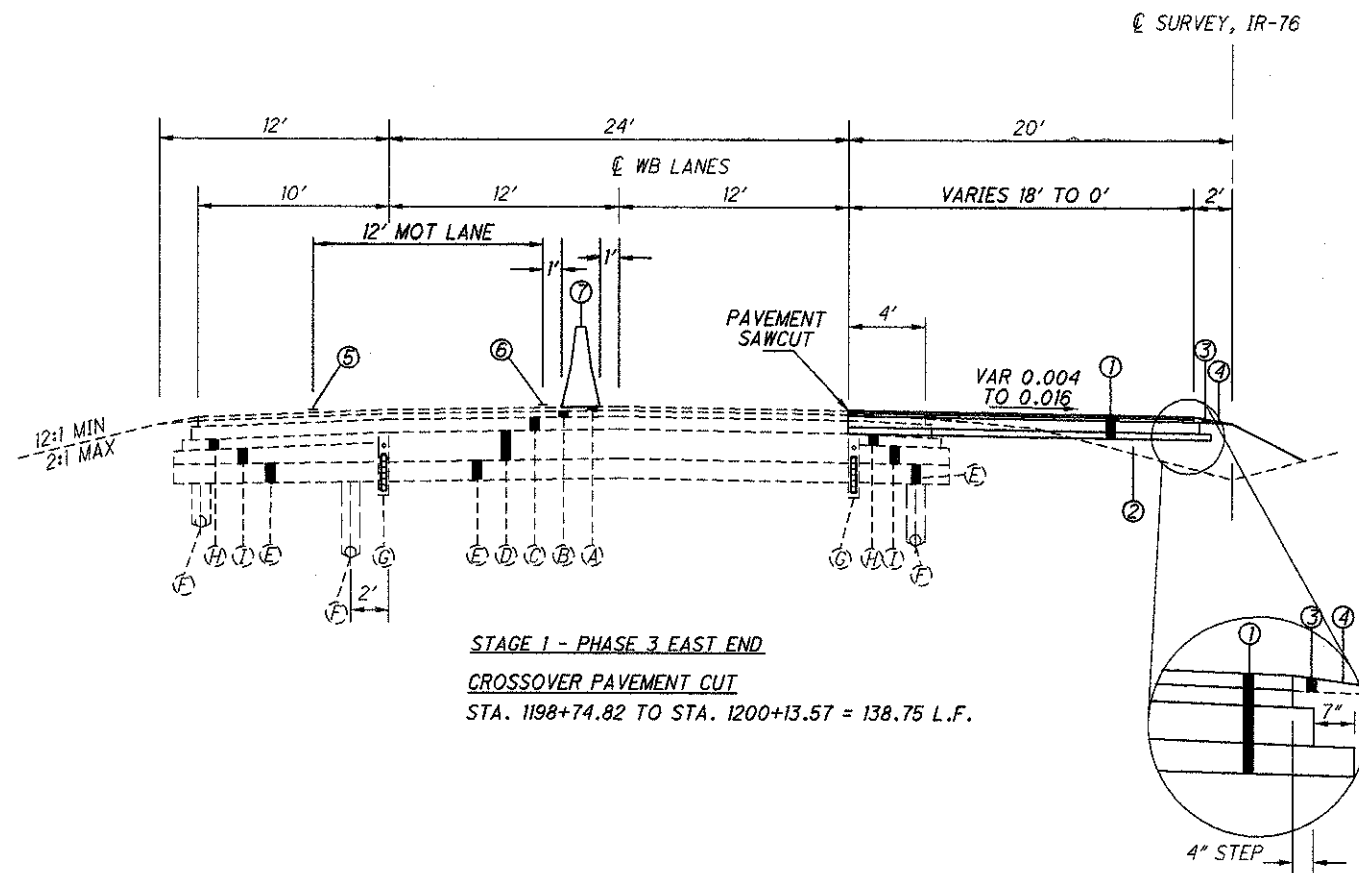
- LEGEND - EXISTING**
- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T = 1 1/4")
  - Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T = 1 3/4")
  - Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
  - Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT
  - Ⓔ EXISTING 6" ± SUBBASE
  - Ⓕ EXISTING 6" UNDERDRAIN
  - Ⓖ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)
  - Ⓗ EXISTING VAR. THICKNESS (3" OR GREATER) BITUM. AGGREGATE BASE
  - Ⓘ EXISTING AGGREGATE BASE (INSIDE SHOULDER: T = 4 3/4"; OUTSIDE SHOULDER: T = 3")

STAGE 1 - PHASE 2 CROSSOVER TYPICAL  
 SECTIONS - WEST END

MED-76-0.61

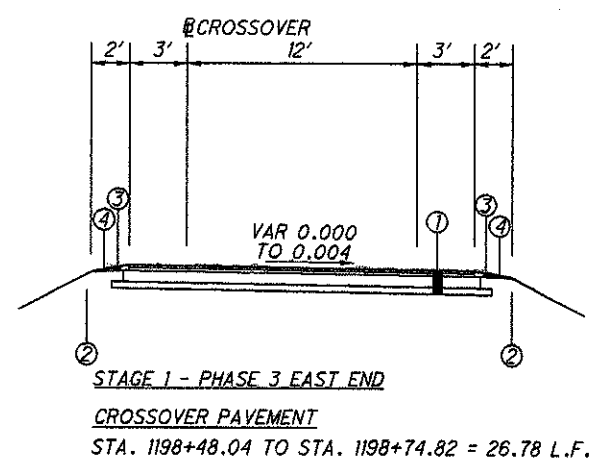
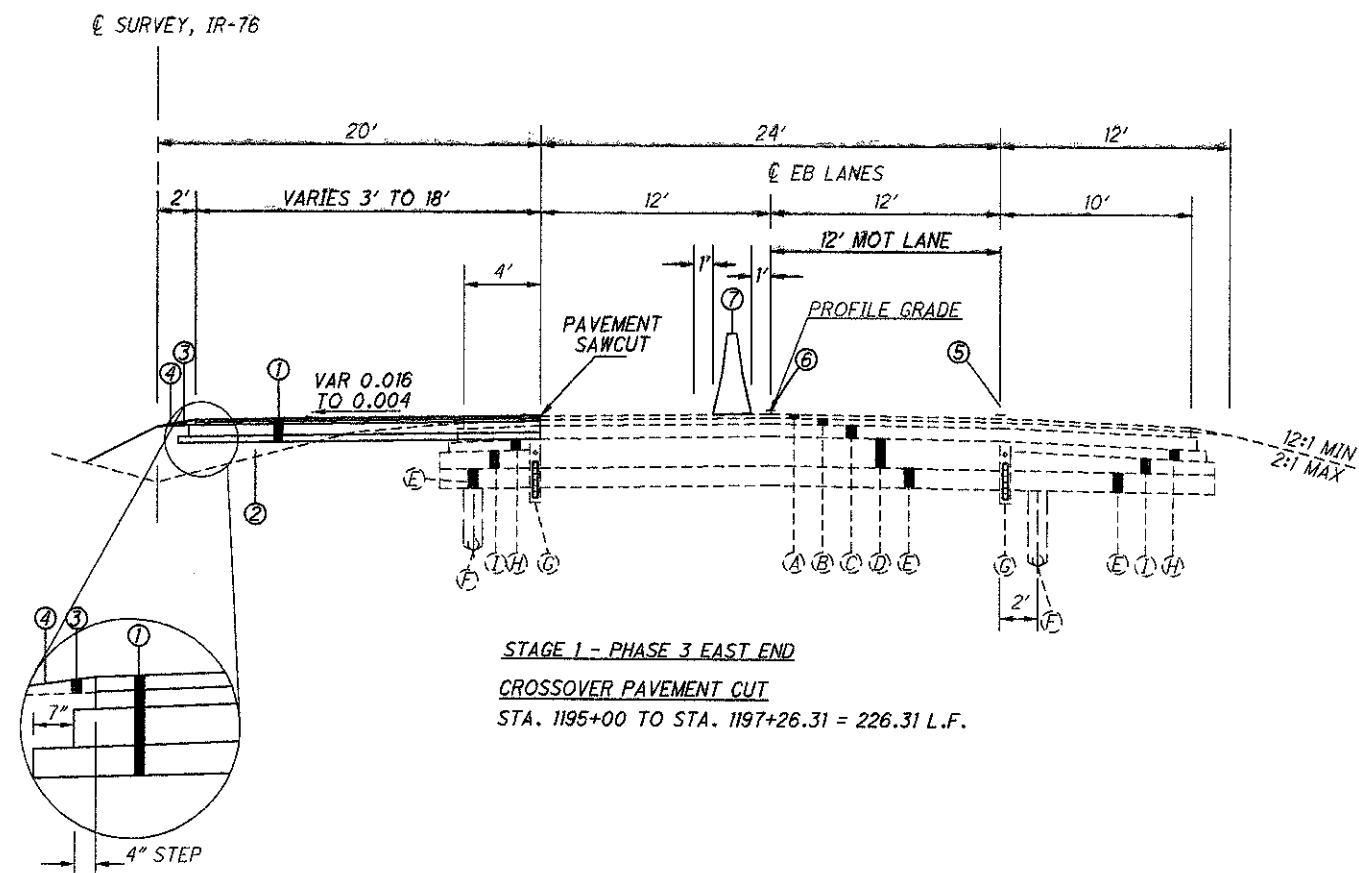
38  
 138

CALCULATED  
 MJS  
 CHECKED  
 BAD  
 HORIZONTAL  
 SCALE IN FEET



**LEGEND - PROPOSED**

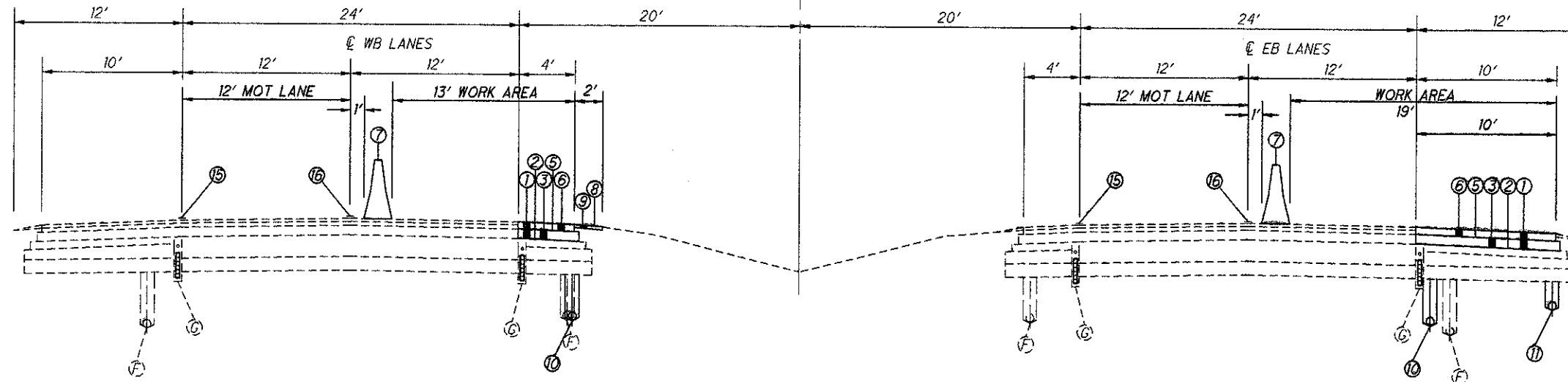
- ① ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN
- ② ITEM 615 ROADS FOR MAINTAINING TRAFFIC
- ③ ITEM 617, COMPACTED AGGREGATE, AS PER PLAN
- ④ ITEM 408 PRIME COAT
- ⑤ ITEM 614 WORK ZONE EDGE LINE (WHITE)
- ⑥ ITEM 614 WORK ZONE EDGE LINE (YELLOW)



**LEGEND - EXISTING**

- ④ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
- ⑤ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
- ⑥ EXISTING 4" BITUMINOUS AGGREGATE BASE
- ⑦ EXISTING 9" REINFORCED CONCRETE PAVEMENT
- ⑧ EXISTING 6" ± SUBBASE
- ⑨ EXISTING 6" UNDERDRAIN
- ⑩ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)
- ⑪ EXISTING VAR. THICKNESS (3" OR GREATER) BITUM. AGGREGATE BASE
- ⑫ EXISTING AGGREGATE BASE (INSIDE SHOULDER: T = 4 3/4"; OUTSIDE SHOULDER: T = 3")

☉ SURVEY, IR-76

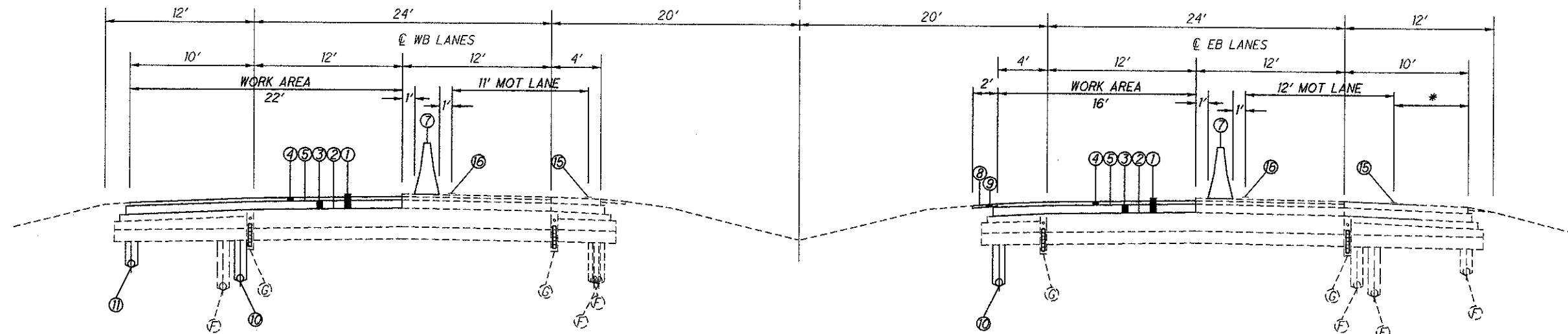


**STAGE 3 - PHASE 1 (4' SHOULDER RECONSTRUCTION)**  
STA. 853+00 TO STA. 966+96.09 = 11396.09 L.F.  
STA. 1195+00 TO STA. 1222+00 = 2700.00 L.F.

**STAGE 3 - PHASE 1 (10' SHOULDER RECONSTRUCTION)**  
STA. 853+00 TO STA. 966+86.09 = 11386.09 L.F.  
STA. 1195+00 TO STA. 1222+00 = 2700.00 L.F.

NOTE: FOR ALL APPLICABLE TYPICAL SECTIONS, THE 6" UNDERDRAINS PLACED AT THE EDGE OF SHOULDER SHALL BE PLACED AT THE EDGE OF THE PROPOSED ITEM 301, OR A MAXIMUM DISTANCE OF 1 FT IN FROM THE EDGE OF THE ITEM 301 IF THE FACE OF GUARDRAIL IS WITHIN 2 FT OF THE EDGE OF THE ITEM 301.

☉ SURVEY, IR-76



**STAGE 3 - PHASE 2 (PART WIDTH CONSTRUCTION WB LANES)**  
STA. 853+00 TO STA. 966+96.09 = 11396.09 L.F.  
STA. 1195+00 TO STA. 1222+00 = 2700.00 L.F.

**STAGE 3 - PHASE 2 (PART WIDTH CONSTRUCTION EB LANES)**  
STA. 853+00 TO STA. 966+86.09 = 11386.09 L.F.  
STA. 1195+00 TO STA. 1222+00 = 2700.00 L.F.

\* 6" TYPICAL, 2" MINIMUM IF CONTRACTOR WANTS TO INCREASE THE WORK AREA TO 20' WIDTH MAXIMUM

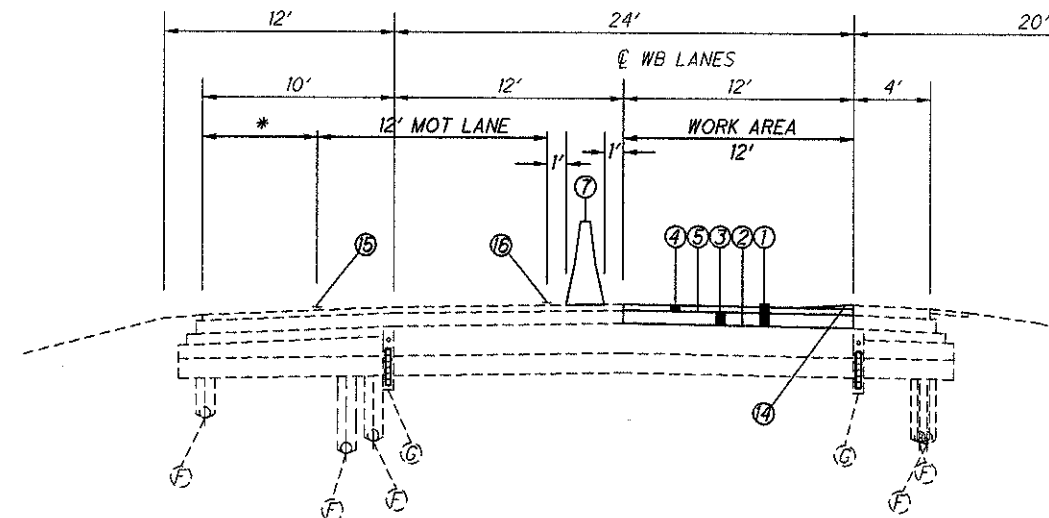
**LEGEND - PROPOSED**

- ① ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (7")
- ② ITEM 407 TACK COAT
- ③ ITEM 301 ASPHALT CONCRETE BASE, PG 64-28, AS PER PLAN (4")
- ④ ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446) (1.75")
- ⑤ ITEM 407 TACK COAT FOR INTERMEDIATE COURSE
- ⑥ ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446) (3.25")
- ⑦ ITEM 622 50" PORTABLE CONCRETE BARRIER, AS PER PLAN
- ⑧ ITEM 408 PRIME COAT
- ⑨ ITEM 617 COMPACTED AGGREGATE, AS PER PLAN
- ⑩ ITEM 605 6" UNCLASSIFIED PIPE UNDERDRAINS
- ⑪ ITEM 605 6" BASE PIPE UNDERDRAINS 18" (MAXIMUM DEPTH)
- ⑫ ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446) (1.50")
- ⑬ ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (1.5")
- ⑭ ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC (3' TAPERED WEDGE, 1.5" TO 0")
- ⑮ ITEM 614 WORK ZONE EDGE LINE (WHITE)
- ⑯ ITEM 614 WORK ZONE EDGE LINE (YELLOW)

**LEGEND - EXISTING**

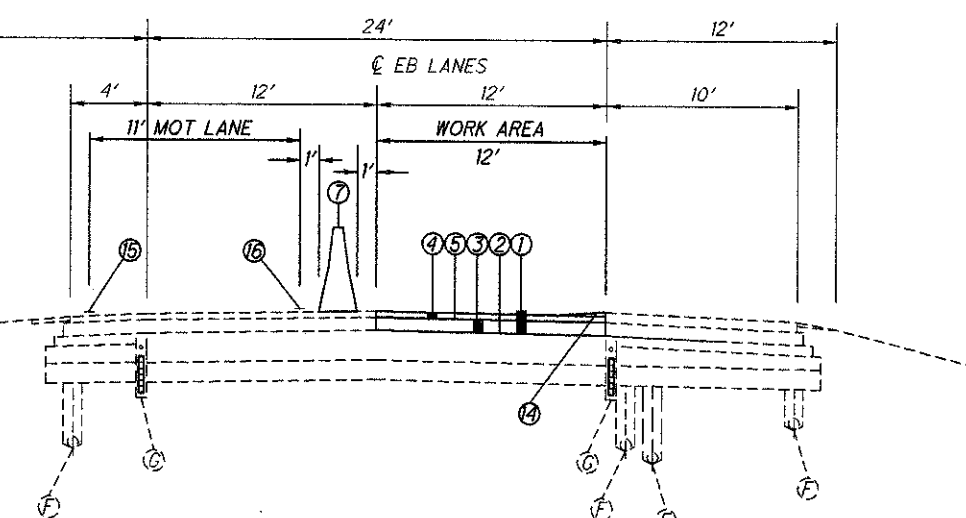
- ⓕ EXISTING 6" UNDERDRAIN
- Ⓢ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)

℄ SURVEY, IR-76



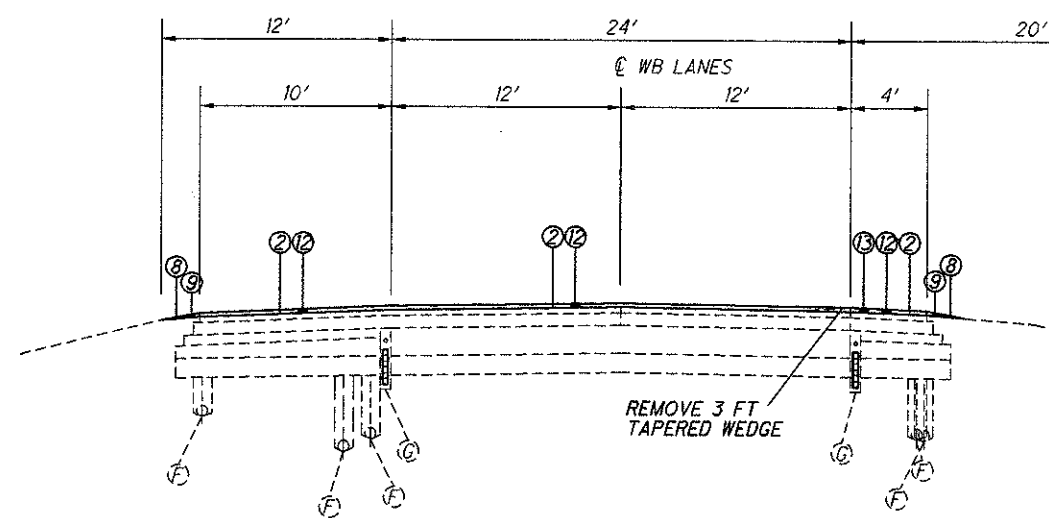
\* 6' TYPICAL, 2' MINIMUM IF CONTRACTOR WANTS TO INCREASE THE WORK AREA TO 16' WIDTH MAXIMUM

**STAGE 3 - PHASE 3 (PART WIDTH CONSTRUCTION WB LANES)**  
 STA. 853+00 TO STA. 966+96.09 = 11396.09 L.F.  
 STA. 1195+00 TO STA. 1222+00 = 2700.00 L.F.

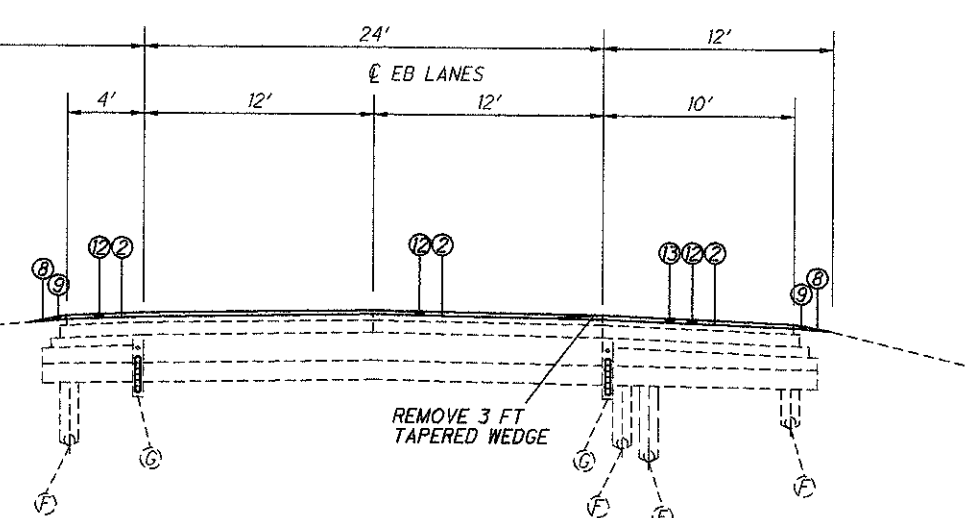


**STAGE 3 - PHASE 3 (PART WIDTH CONSTRUCTION EB LANES)**  
 STA. 853+00 TO STA. 966+86.09 = 11386.09 L.F.  
 STA. 1195+00 TO STA. 1222+00 = 2700.00 L.F.

℄ SURVEY, IR-76



**STAGE 3 - PHASE 4 (PART WIDTH SURFACE COURSE CONSTRUCTION WB LANES USING DRUMS)**  
 STA. 853+00 TO STA. 966+96.09 = 11396.09 L.F.  
 STA. 1195+00 TO STA. 1222+00 = 2700.00 L.F.



**STAGE 3 - PHASE 4 (PART WIDTH SURFACE COURSE CONSTRUCTION EB LANES USING DRUMS)**  
 STA. 853+00 TO STA. 966+86.09 = 11386.09 L.F.  
 STA. 1195+00 TO STA. 1222+00 = 2700.00 L.F.

**LEGEND - PROPOSED**

- ① ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (7")
- ② ITEM 407 TACK COAT
- ③ ITEM 301 ASPHALT CONCRETE BASE, PG 64-28, AS PER PLAN (4")
- ④ ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446) (1.75")
- ⑤ ITEM 407 TACK COAT FOR INTERMEDIATE COURSE
- ⑥ ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446) (3.25")
- ⑦ ITEM 622 50" PORTABLE CONCRETE BARRIER, AS PER PLAN
- ⑧ ITEM 408 PRIME COAT
- ⑨ ITEM 617 COMPACTED AGGREGATE, AS PER PLAN
- ⑩ ITEM 605 6" UNCLASSIFIED PIPE UNDERDRAINS
- ⑪ ITEM 605 6" BASE PIPE UNDERDRAINS 18" (MAXIMUM DEPTH)
- ⑫ ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446) (1.50")
- ⑬ ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (1.5")
- ⑭ ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC (3' TAPERED WEDGE, 1.5" TO 0")
- ⑮ ITEM 614 WORK ZONE EDGE LINE (WHITE)
- ⑯ ITEM 614 WORK ZONE EDGE LINE (YELLOW)

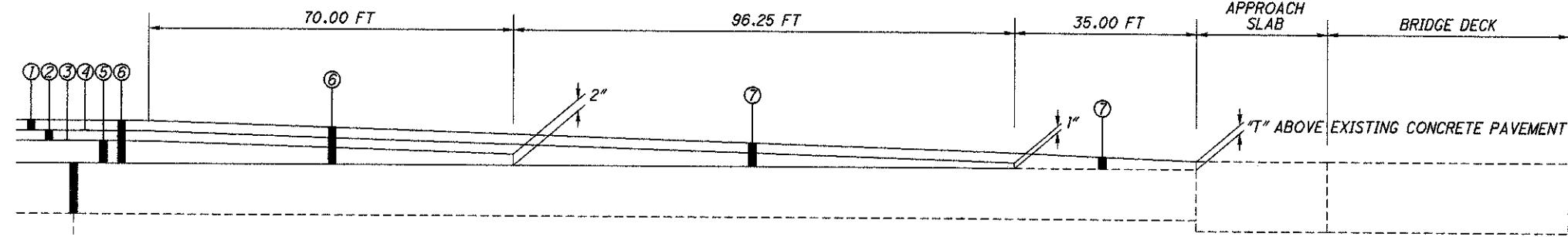
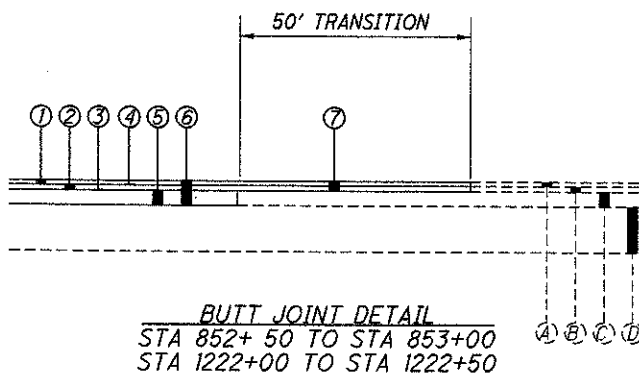
**LEGEND - EXISTING**

- Ⓕ EXISTING 6" UNDERDRAIN
- Ⓖ EXISTING SHALLOW UNDERDRAIN (PREFABRICATED EDGE DRAIN)

**MAINTENANCE OF TRAFFIC TYPICAL SECTIONS  
 STAGE 3 - PHASES 3 AND 4**

**MED-76-0.61**





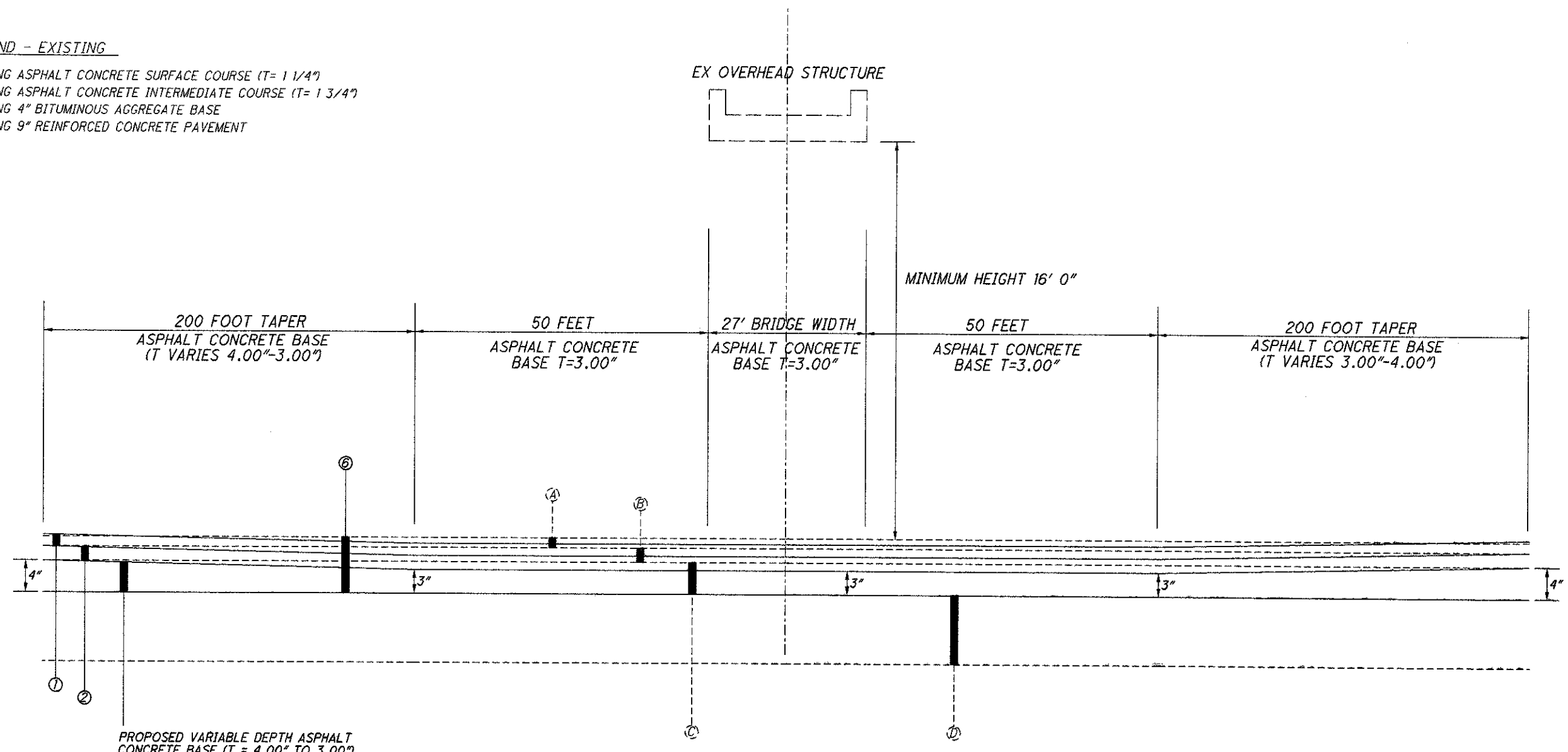
PAVEMENT PROFILE TRANSITION DETAIL AT STRUCTURES

| STRUCTURE   | SIDE | "T"    |
|-------------|------|--------|
| MED-76-0112 | L    | 1 1/2" |
|             | R    | 2"     |
| MED-76-0299 | L    | 1 1/2" |
|             | R    | 2 1/2" |
| MED-76-0622 | L    | 1 1/2" |
|             | R    | 1 1/2" |
| MED-76-0690 | L    | 1 3/4" |
|             | R    | 1 1/2" |

NOTE: DETAIL DOES NOT APPLY TO STRUCTURE MED-76-0158 L/R (FULL DEPTH ASPHALT CONCRETE AT APPROACHES)

- LEGEND - PROPOSED**
- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
  - ② 1.75" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
  - ③ ITEM 407, TACK COAT
  - ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
  - ⑤ 4.00" ITEM 301 ASPHALT CONCRETE BASE, PG64-28, AS PER PLAN
  - ⑥ 7.00" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
  - ⑦ 3.25" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE

- LEGEND - EXISTING**
- Ⓐ EXISTING ASPHALT CONCRETE SURFACE COURSE (T= 1 1/4")
  - Ⓑ EXISTING ASPHALT CONCRETE INTERMEDIATE COURSE (T= 1 3/4")
  - Ⓒ EXISTING 4" BITUMINOUS AGGREGATE BASE
  - Ⓓ EXISTING 9" REINFORCED CONCRETE PAVEMENT



PAVEMENT PROFILE TRANSITION DETAIL UNDER OVERHEAD STRUCTURE AT STA 984+79.36 (MED-76-0311)

DESIGN FILE: I:\projects\77475\roadway\sheet\77475GA001.dgn  
WORKSTATION: mschafra DATE: 10/9/2009

HORIZONTAL SCALE IN FEET

CALCULATED  
ADW  
CHECKED  
MJS

PAVEMENT TRANSITION DETAILS

MED-76-0.61

43  
138

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| 29                                         | 48     | 49      | 50      | 51     | 52     | 53    | 54     | 55    | 56    | 58    | 63    | 75 | 77    | 80   | ITEM    | ITEM<br>EXT. | TOTAL   | UNIT    | DESCRIPTION                                                             | REF.<br>SHEET |
|--------------------------------------------|--------|---------|---------|--------|--------|-------|--------|-------|-------|-------|-------|----|-------|------|---------|--------------|---------|---------|-------------------------------------------------------------------------|---------------|
| ROADWAY ITEMS                              |        |         |         |        |        |       |        |       |       |       |       |    |       |      |         |              |         |         |                                                                         |               |
|                                            |        |         |         |        |        |       |        |       |       |       | 1,400 |    |       | LUMP | 201     | 11000        | LUMP    |         | CLEARING AND GRUBBING                                                   |               |
|                                            |        |         |         |        |        |       |        |       |       |       |       | 10 |       |      | 202     | 23000        | 1,400   | SQ YD   | PAVEMENT REMOVED                                                        |               |
|                                            |        |         |         |        |        |       |        |       |       |       |       |    |       |      | 202     | 35100        | 10      | FT      | PIPE REMOVED, 24" AND UNDER                                             |               |
|                                            |        |         |         |        |        |       |        |       |       |       |       |    | 2,475 |      | 202     | 38200        | 2,475   | FT      | GUARDRAIL REMOVED FOR REUSE                                             |               |
|                                            |        |         |         |        |        |       |        |       |       |       |       |    | 2     |      | 202     | 42040        | 2       | EACH    | ANCHOR ASSEMBLY REMOVED, TYPE T                                         |               |
| 500                                        |        |         |         |        |        |       |        |       |       |       |       | 1  |       |      | 202     | 58100        | 1       | EACH    | CATCH BASIN REMOVED                                                     |               |
|                                            |        |         |         |        |        |       |        |       |       | 710   |       |    |       |      | 203     | 10000        | 1,210   | CU YD   | EXCAVATION                                                              |               |
|                                            |        |         |         |        |        |       |        |       |       | 200   |       | 11 |       |      | 203     | 20000        | 211     | CU YD   | EMBANKMENT                                                              |               |
|                                            |        |         |         |        |        |       |        |       |       | 1,134 | 1,631 |    |       |      | 204     | 10000        | 2,765   | SQ YD   | SUBGRADE COMPACTION                                                     |               |
|                                            |        |         |         |        |        |       |        |       |       |       |       |    | 24.75 |      | 209     | 15000        | 24.75   | STATION | RESHAPING UNDER GUARDRAIL                                               |               |
|                                            |        |         | 26.61   | 1.81   |        |       |        |       |       |       |       |    |       |      | 209     | 60501        | 28.42   | MILE    | LINEAR GRADING, AS PER PLAN                                             | 29            |
|                                            |        |         |         |        |        |       |        |       |       |       |       |    | 2,475 |      | 606     | 16500        | 2,475   | FT      | GUARDRAIL REBUILT, TYPE 5                                               |               |
|                                            |        |         |         |        |        |       |        |       |       |       |       |    | 2     |      | 606     | 26500        | 2       | EACH    | ANCHOR ASSEMBLY, TYPE T                                                 |               |
| PAVEMENT ITEMS                             |        |         |         |        |        |       |        |       |       |       |       |    |       |      |         |              |         |         |                                                                         |               |
| 15                                         |        |         |         |        |        |       |        |       |       |       |       |    |       |      | 253     | 02001        | 15      | CU YD   | PAVEMENT REPAIR, AS PER PLAN                                            | 29            |
| 150                                        |        |         |         |        |        |       |        |       |       |       |       |    |       |      | 253     | 90000        | 150     | CU YD   | PAVEMENT REPAIR, MISC.: PARTIAL DEPTH                                   | 29            |
|                                            | 97,229 | 103,177 | 108,011 |        |        |       |        |       |       |       |       |    |       |      | 254     | 01001        | 308,417 | SQ YD   | PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (7.00")                 | 30            |
|                                            | 4,684  | 3,321   | 3,309   | 14,118 |        |       |        |       |       |       |       |    |       |      | 254     | 01001        | 14,118  | SQ YD   | PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (4.00")                 | 30            |
|                                            |        |         |         |        |        |       |        |       |       |       |       |    |       |      | 254     | 01001        | 11,314  | SQ YD   | PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (3.25")                 | 30            |
|                                            |        |         |         |        |        |       |        |       |       |       | 231   |    |       |      | 255     | 10001        | 231     | SQ YD   | FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS C, AS PER PLAN | 63            |
|                                            |        |         |         |        | 7,754  | 1,792 | 3,791  | 905   | 1,348 |       |       |    |       |      | 255     | 10150        | 15,590  | SQ YD   | FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS MS             |               |
|                                            | 11,090 | 11,748  | 12,328  |        | 27,654 | 8,018 | 13,848 | 4,022 | 4,748 |       | 3,982 |    |       |      | 255     | 20000        | 62,272  | FT      | FULL DEPTH PAVEMENT SAWING                                              |               |
| 500                                        |        |         |         |        |        |       |        |       |       | 246   |       |    |       |      | 301     | 46011        | 35,412  | CU YD   | ASPHALT CONCRETE BASE, PG64-28, AS PER PLAN                             | 30            |
|                                            |        |         |         |        |        |       |        |       |       | 186   |       |    |       |      | 304     | 20000        | 686     | CU YD   | AGGREGATE BASE                                                          |               |
|                                            | 5,002  | 5,297   | 5,290   |        |        |       |        |       |       | 48    |       |    |       |      | 407     | 10000        | 15,637  | GALLON  | TACK COAT                                                               |               |
|                                            | 5,088  | 5,313   | 5,303   | 706    |        |       |        |       |       | 48    |       |    |       |      | 407     | 14000        | 16,458  | GALLON  | TACK COAT FOR INTERMEDIATE COURSE                                       |               |
|                                            | 10,177 | 10,632  | 11,135  | 1,413  |        |       |        |       |       |       |       |    |       |      | 407     | 13900        | 33,357  | GALLON  | TACK COAT, 702.13                                                       |               |
|                                            |        |         | 12,486  | 851    |        |       |        |       |       |       |       |    |       |      | 408     | 10000        | 13,337  | GALLON  | PRIME COAT                                                              |               |
|                                            | 4,241  | 4,430   | 4,423   | 591    |        |       |        |       |       | 40    |       |    |       |      | 442     | 10000        | 13,725  | CU YD   | ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)                   |               |
|                                            | 4,944  | 5,164   | 5,159   | 981    |        |       |        |       |       | 48    |       |    |       |      | 442     | 10100        | 16,296  | CU YD   | ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446)                |               |
|                                            |        |         | 1,734   | 118    |        |       |        |       |       | 4     | 1,400 |    |       |      | 451     | 14000        | 1,400   | SQ YD   | 9" REINFORCED CONCRETE PAVEMENT                                         |               |
|                                            |        |         | 31,219  | 2,128  |        |       |        |       |       | 64    |       |    |       |      | 617     | 10101        | 1,856   | CU YD   | COMPACTED AGGREGATE, AS PER PLAN                                        | 30            |
|                                            |        |         | 140,483 |        |        |       |        |       |       |       |       |    |       |      | 617     | 20000        | 33,411  | SQ YD   | SHOULDER PREPARATION                                                    |               |
|                                            |        |         |         |        |        |       |        |       |       |       |       |    |       |      | 618     | 40100        | 140,483 | FT      | RUMBLE STRIPS, (ASPHALT CONCRETE)                                       |               |
|                                            | 168    | 168     |         |        |        |       |        |       |       |       |       |    |       |      | SPECIAL | 45132000     | 336     | FT      | PRESSURE RELIEF JOINT, TYPE C                                           |               |
|                                            | 804    | 319     |         |        |        |       |        |       |       |       |       |    |       |      | SPECIAL | 69012060     | 1123 ** | SQ YD   | PAVEMENT OVERLAY FABRIC COMPOSITE **                                    | 30A           |
| EROSION CONTROL                            |        |         |         |        |        |       |        |       |       |       |       |    |       |      |         |              |         |         |                                                                         |               |
|                                            |        |         |         |        |        |       |        |       |       |       |       | 1  |       |      | 601     | 34000        | 1       | CU YD   | ROCK CHANNEL PROTECTION, TYPE A WITHOUT FILTER                          |               |
|                                            |        |         |         |        |        |       |        |       |       | 1,102 |       |    |       |      | 659     | 10000        | 1,102   | SQ YD   | SEEDING AND MULCHING                                                    |               |
|                                            |        |         |         |        |        |       |        |       |       |       |       |    |       |      | 832     | 15000        | LUMP    |         | STORM WATER POLLUTION PREVENTION PLAN                                   |               |
|                                            |        |         |         |        |        |       |        |       |       |       |       | 21 |       |      | 832     | 30000        | 5,000   | EACH    | EROSION CONTROL                                                         |               |
|                                            |        |         |         |        |        |       |        |       |       |       |       |    |       |      | 836     | 10030        | 21      | SQ YD   | SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3           |               |
| NOTE: ** NONFEDERAL FUNDING FOR THIS ITEM. |        |         |         |        |        |       |        |       |       |       |       |    |       |      |         |              |         |         |                                                                         |               |

GENERAL SUMMARY

MED-76-0.61

44  
138

| SHEET NUMBER |    |    |     |        |    |        |     |     |     |         |         |    | ITEM | ITEM EXT. | TOTAL  | UNIT   | DESCRIPTION                                             | REF. SHEET |  |
|--------------|----|----|-----|--------|----|--------|-----|-----|-----|---------|---------|----|------|-----------|--------|--------|---------------------------------------------------------|------------|--|
| 31           | 32 | 33 | 34  | 42     | 58 | 59     | 60  | 61  | 62  | 75      | 77      | 78 |      |           |        |        |                                                         |            |  |
|              |    |    |     |        |    |        |     |     |     |         |         |    |      |           |        |        |                                                         |            |  |
|              |    |    |     |        |    |        |     |     |     | 164     |         |    | 601  | 21050     | 164    | SQ YD  | TIED CONCRETE BLOCK MAT, TYPE 1                         |            |  |
|              |    |    |     |        |    |        |     |     |     | 5,669   |         |    | 603  | 01500     | 5669   | FT     | 6" CONDUIT, TYPE F                                      |            |  |
|              |    |    |     |        | 25 |        |     |     |     |         |         |    | 603  | 05700     | 25     | FT     | 15" CONDUIT, TYPE A                                     |            |  |
|              |    |    |     |        |    |        |     |     |     | 10      |         |    | 603  | 06100     | 10     | FT     | 15" CONDUIT, TYPE C                                     |            |  |
|              |    |    |     |        |    |        |     |     |     | 1       |         |    | 604  | 04100     | 1      | EACH   | CATCH BASIN, NO. 2-2A                                   |            |  |
|              |    |    |     |        |    |        |     |     |     | 2       |         |    | 604  | 09000     | 2      | EACH   | CATCH BASIN ADJUSTED TO GRADE                           |            |  |
|              |    |    |     |        |    |        |     |     |     | 2       |         |    | 604  | 09910     | 2      | EACH   | CATCH BASIN FRAME AND GRATE                             |            |  |
|              |    |    |     |        |    |        |     |     |     | 91      |         |    | 604  | 36600     | 91     | EACH   | PRECAST REINFORCED CONCRETE OUTLET                      |            |  |
|              |    |    |     |        |    |        |     |     |     | 144,126 |         |    | 605  | 13301     | 144126 | FT     | 6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN, 707.31   | 29         |  |
|              |    |    |     |        |    |        |     |     |     | 65,885  |         |    | 605  | 14001     | 65885  | FT     | 6" BASE PIPE UNDERDRAINS, AS PER PLAN, 707.31           | 29         |  |
|              |    |    |     |        |    |        |     |     |     |         |         |    |      |           |        |        |                                                         |            |  |
|              |    |    |     |        |    |        |     |     |     |         |         |    |      |           |        |        |                                                         |            |  |
|              |    |    |     |        |    |        |     |     |     |         | 1,412.5 |    | 202  | 38000     | 1412.5 | FT     | GUARDRAIL REMOVED                                       |            |  |
|              |    |    |     |        |    |        |     |     |     |         | 6       |    | 202  | 47000     | 6      | EACH   | BRIDGE TERMINAL ASSEMBLY REMOVED                        |            |  |
|              |    |    | 50  |        |    |        |     |     |     |         |         |    | 203  | 10000     | 50     | CU YD  | EXCAVATION                                              |            |  |
|              |    |    | 50  |        |    |        |     |     |     |         |         |    | 203  | 20000     | 50     | CU YD  | EMBANKMENT                                              |            |  |
|              |    |    |     | 2.36   |    |        |     |     |     |         |         |    | 209  | 60500     | 2.36   | MILE   | LINEAR GRADING                                          |            |  |
|              |    |    |     |        |    |        |     |     |     |         |         |    |      |           |        |        |                                                         |            |  |
|              |    |    | 175 |        |    |        |     |     |     |         |         |    | 253  | 02001     | 175    | CU YD  | PAVEMENT REPAIR, AS PER PLAN                            | 34         |  |
|              |    |    | 500 |        |    |        |     |     |     |         |         |    | 253  | 90000     | 500    | CU YD  | PAVEMENT REPAIR, MISC.: PARTIAL DEPTH                   | 34         |  |
|              |    |    |     |        |    |        |     |     |     |         |         |    |      |           |        |        |                                                         |            |  |
|              |    |    |     | 21,288 |    |        |     |     |     |         |         |    | 254  | 01001     | 21288  | SQ YD  | PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (1.5")  | 30         |  |
|              |    |    |     | 1,593  |    |        |     |     |     |         |         |    | 254  | 01001     | 1593   | SQ YD  | PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (3")    | 30         |  |
|              |    |    |     |        |    | 12,971 | 500 | 642 | 299 |         |         |    | 254  | 01001     | 14412  | SQ YD  | PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (3.25") | 30         |  |
|              |    |    |     | 2,673  |    |        |     |     |     |         |         |    | 254  | 01001     | 2673   | SQ YD  | PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (5")    | 30         |  |
|              |    |    |     | 504    |    |        |     |     |     |         |         |    | 301  | 46011     | 504    | CU YD  | ASPHALT CONCRETE BASE, PG64-28, AS PER PLAN             | 30         |  |
|              |    |    |     |        |    |        |     |     |     |         |         |    |      |           |        |        |                                                         |            |  |
|              |    |    |     | 876    |    | 1,297  | 50  | 64  | 30  |         |         |    | 407  | 10000     | 2317   | GALLON | TACK COAT                                               |            |  |
|              |    |    |     |        |    | 648    | 25  | 32  | 15  |         |         |    | 407  | 14000     | 720    | GALLON | TACK COAT FOR INTERMEDIATE COURSE                       |            |  |
|              |    |    |     | 1,107  |    |        |     |     |     |         |         |    | 408  | 10000     | 1107   | GALLON | PRIME COAT                                              |            |  |
|              |    |    |     |        |    | 541    | 21  | 27  | 12  |         |         |    | 442  | 10000     | 601    | CU YD  | ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)   |            |  |
|              |    |    |     | 888    |    | 631    |     |     |     |         |         |    |      |           |        |        |                                                         |            |  |



| 77  | 78    | 78A  | 79  | 81 |  | 106   | 107   | 108   | 109   | 110   | 111   | 112   | 113  | ITEM    | ITEM EXT. | TOTAL   | UNIT  | DESCRIPTION                                                      | REF. SHEET |
|-----|-------|------|-----|----|--|-------|-------|-------|-------|-------|-------|-------|------|---------|-----------|---------|-------|------------------------------------------------------------------|------------|
|     |       |      | 775 |    |  |       |       |       |       |       |       |       |      | 621     | 00100     | 775     | EACH  | TRAFFIC CONTROL                                                  |            |
| 303 |       |      | 746 |    |  |       |       |       |       |       |       |       |      | 621     | 54000     | 746     | EACH  | RAISED PAVEMENT MARKER REMOVED                                   |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      | 626     | 00100     | 303     | EACH  | BARRIER REFLECTOR                                                |            |
|     |       |      |     |    |  | 45.0  | 56.5  | 73.0  | 34.0  |       | 24.0  |       |      | 630     | 02101     | 232.5   | FT    | GROUND MOUNTED SUPPORT, NO. 2 POST, AS PER PLAN                  | 80         |
|     |       |      |     |    |  | 117.5 | 86.0  | 127.5 | 122.0 | 94.5  | 161.5 | 131.6 | 13.0 | 630     | 03101     | 853.6   | FT    | GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN                  | 80         |
|     |       |      |     |    |  | 15.0  |       | 15.0  | 15.0  |       |       |       |      | 630     | 04101     | 45.0    | FT    | GROUND MOUNTED SUPPORT, NO. 4 POST, AS PER PLAN                  | 80         |
|     |       |      |     |    |  | 32.7  |       |       | 34.3  |       |       |       |      | 630     | 06400     | 67.0    | FT    | GROUND MOUNTED SUPPORT, S4X7.7 BEAM                              |            |
|     |       |      |     |    |  |       |       | 33.8  |       |       |       |       |      | 630     | 06500     | 33.8    | FT    | GROUND MOUNTED SUPPORT, W6X9 BEAM                                |            |
|     |       |      |     |    |  | 42.3  |       |       |       |       |       |       |      | 630     | 07000     | 42.3    | FT    | GROUND MOUNTED SUPPORT, W8X18 BEAM                               |            |
|     |       |      |     |    |  |       | 99.5  |       | 47.1  |       |       |       |      | 630     | 07500     | 146.6   | FT    | GROUND MOUNTED SUPPORT, 10X22 BEAM                               |            |
|     |       |      |     |    |  |       | 46.7  | 46.1  |       |       | 44.4  |       |      | 630     | 07600     | 137.2   | FT    | GROUND MOUNTED SUPPORT, 10X12 BEAM                               |            |
|     |       |      |     |    |  |       |       |       |       |       | 29.0  |       |      | 630     | 08005     | 29.0    | FT    | ONE WAY SUPPORT, NO. 3 POST, AS PER PLAN                         | 80         |
|     |       |      |     |    |  |       |       |       | 1     | 6     | 5     |       |      | 630     | 08600     | 12      | EACH  | SIGN POST REFLECTOR                                              |            |
|     |       |      |     | 8  |  | 4     | 6     | 4     | 4     |       | 2     |       |      | 630     | 09000     | 20      | EACH  | BREAKAWAY BEAM CONNECTION                                        |            |
|     |       |      |     | 8  |  |       |       |       |       |       |       |       |      | 630     | 09100     | 8       | EACH  | SURFACE PREPARATION, EXISTING SUPPORT SECTION                    |            |
|     |       |      |     | 8  |  |       |       |       |       |       |       |       |      | 630     | 09104     | 8       | EACH  | COATING, EPOXY PRIME COAT, SUPPORT SECTION                       |            |
|     |       |      |     | 8  |  |       |       |       |       |       |       |       |      | 630     | 09106     | 8       | EACH  | COATING, EPOXY INTERMEDIATE COAT, SUPPORT SECTION                |            |
|     |       |      |     | 8  |  |       |       |       |       |       |       |       |      | 630     | 09108     | 8       | EACH  | COATING, URETHANE TOP COAT, SUPPORT SECTION                      |            |
|     |       |      |     |    |  |       |       |       |       | 2     | 4     | 2     |      | 630     | 75001     | 8       | EACH  | SIGN ATTACHMENT ASSEMBLY, AS PER PLAN                            | 80         |
|     |       |      |     |    |  | 113.3 | 101.0 | 80.5  | 117.6 | 122.7 | 107.7 | 131.2 | 56.0 | 630     | 80100     | 830.0   | SQ FT | SIGN, FLAT SHEET                                                 |            |
|     |       |      |     |    |  |       |       |       | 16.0  |       |       |       |      | 630     | 80101     | 16.0    | SQ FT | SIGN, FLAT SHEET, AS PER PLAN                                    | 80         |
|     |       |      |     |    |  | 528.0 | 676.0 | 435.5 | 204.0 | 32.0  | 86.0  | 86.0  |      | 630     | 80200     | 2,047.5 | SQ FT | SIGN, GROUND MOUNTED EXTRUSHEET                                  |            |
|     |       |      |     |    |  |       |       | 16.0  |       | 140.0 | 280.0 | 140.0 |      | 630     | 80224     | 576.0   | SQ FT | SIGN, OVERHEAD EXTRUSHEET                                        |            |
|     |       |      |     |    |  | 4     | 8     | 4     | 4     | 2     | 1     |       |      | 630     | 82000     | 23      | EACH  | SIGN BACKING ASSEMBLY                                            |            |
|     |       |      |     |    |  | 4     | 6     | 4     | 4     |       | 2     |       |      | 630     | 84500     | 20      | EACH  | GROUND MOUNTED BEAM SUPPORT FOUNDATION                           |            |
|     |       |      |     |    |  | 14    | 27    | 22    | 19    | 25    | 31    | 31    | 10   | 630     | 84900     | 179     | EACH  | REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL                      |            |
|     |       |      |     |    |  | 2     | 4     | 4     | 2     | 1     | 1     | 1     |      | 630     | 85100     | 15      | EACH  | REMOVAL OF GROUND MOUNTED SIGN AND REERECTION                    |            |
|     |       |      |     |    |  | 5     | 6     | 6     | 3     | 1     |       | 3     |      | 630     | 85400     | 24      | EACH  | REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL                |            |
|     |       |      |     |    |  | 9     | 15    | 17    | 11    | 7     | 18    | 10    | 1    | 630     | 86002     | 88      | EACH  | REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL              |            |
|     |       |      |     |    |  | 4     | 10    |       | 4     |       | 2     |       |      | 630     | 86102     | 20      | EACH  | REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND DISPOSAL              |            |
|     |       |      |     |    |  |       |       | 2     |       |       |       |       |      | 630     | 86103     | 2       | EACH  | REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND DISPOSAL, AS PER PLAN | 80         |
|     |       |      |     |    |  |       |       |       |       | 2     | 4     | 2     |      | 630     | 87400     | 8       | EACH  | REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL                    |            |
|     |       |      |     |    |  | 46    | 65    | 57    | 45    | 57    | 69    | 77    | 20   | 630     | 97700     | 436     | EACH  | SIGNING, MISC.: SIGN DATA COLLECTION                             | 80         |
|     |       | 0.24 |     |    |  |       |       |       |       |       |       |       |      | 642     | 00100     | 0.24    | MILE  | EDGE LINE, TYPE 1                                                |            |
|     |       | 0.12 |     |    |  |       |       |       |       |       |       |       |      | 642     | 00300     | 0.12    | MILE  | CENTER LINE, TYPE 1                                              |            |
|     | 29.84 |      |     |    |  |       |       |       |       |       |       |       |      | 644     | 00100     | 29.84   | MILE  | EDGE LINE                                                        |            |
|     | 14.52 |      |     |    |  |       |       |       |       |       |       |       |      | 644     | 00200     | 14.52   | MILE  | LANE LINE                                                        |            |
|     | 3,582 |      |     |    |  |       |       |       |       |       |       |       |      | 644     | 00400     | 3,582   | FT    | CHANNELIZING LINE                                                |            |
|     | 164   |      |     |    |  |       |       |       |       |       |       |       |      | 644     | 00500     | 164     | FT    | STOP LINE                                                        |            |
|     | 710   |      |     |    |  |       |       |       |       |       |       |       |      | 644     | 00700     | 710     | FT    | TRANSVERSE/DIAGONAL LINE                                         |            |
|     | 1     |      |     |    |  |       |       |       |       |       |       |       |      | SPECIAL | 64440000  | 1       | EACH  | AIR SPEED ZONE MARKING                                           | 30         |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |
|     |       |      |     |    |  |       |       |       |       |       |       |       |      |         |           |         |       |                                                                  |            |

| EB MAINLINE PAVEMENT QUANTITIES           |             |                                                                                   |                |                 |               | 407                                          | 407                                   | 407                                                              | 442       |                                                                   | 442       |                                                                | 301                                                          | 254                                                        | 254                                                                        | SPECIAL                                            | SPECIAL                          |     |  |  |  |
|-------------------------------------------|-------------|-----------------------------------------------------------------------------------|----------------|-----------------|---------------|----------------------------------------------|---------------------------------------|------------------------------------------------------------------|-----------|-------------------------------------------------------------------|-----------|----------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------|----------------------------------|-----|--|--|--|
| BEGIN STATION                             | END STATION | DESCRIPTION                                                                       | PAVEMENT WIDTH | PAVEMENT LENGTH | PAVEMENT AREA | TACK COAT, 702.13<br>AT 0.10 GAL PER SQ. YD. | TACK COAT,<br>AT 0.05 GAL PER SQ. YD. | TACK COAT FOR<br>INTERMEDIATE COURSE,<br>AT 0.05 GAL PER SQ. YD. | THICKNESS | ASPHALT CONCRETE<br>INTERMEDIATE<br>COURSE, 19MM, TYPE A<br>(446) | THICKNESS | ASPHALT CONCRETE<br>SURFACE<br>COURSE, 12.5MM, TYPE A<br>(446) | ASPHALT CONCRETE<br>BASE, PG64-28, AS PER<br>PLAN (4" THICK) | PAVEMENT PLANING,<br>ASPHALT CONCRETE, AS<br>PER PLAN (7") | PAVEMENT PLANING,<br>ASPHALT CONCRETE, AS<br>PER PLAN (3.25"<br>AVERAGE) # | PAVEMENT OVERLAY<br>FABRIC COMPOSITE<br>(30" WIDE) | PRESSURE RELIEF JOINT,<br>TYPE C |     |  |  |  |
|                                           |             |                                                                                   | FT             | FT              | SY            | GAL                                          | GAL                                   | GAL                                                              | IN        | CY                                                                | IN        | CY                                                             | CY                                                           | SY                                                         | SY                                                                         | SQ YD                                              | STA                              | FT  |  |  |  |
| EASTBOUND                                 |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
| 852+50.                                   | 853+00.     | Butt joint                                                                        | 24             | 50              | 133           | 13                                           |                                       | 7                                                                | 1.75      | 6                                                                 | 1.50      | 6                                                              |                                                              |                                                            | 133                                                                        |                                                    | 881+40.                          | 24  |  |  |  |
| 853+00.                                   | 863+00.     | Composite Pavement Mainline                                                       | 24             | 1000            | 2667          | 267                                          | 133                                   | 133                                                              | 1.75      | 130                                                               | 1.50      | 111                                                            | 296                                                          | 2667                                                       |                                                                            |                                                    | 977+15.                          | 24  |  |  |  |
| 863+00.                                   | 875+50.     | Flexible Pavement Mainline                                                        | 24             | 1250            | 3333          | 333                                          | 167                                   | 167                                                              | 1.75      | 162                                                               | 1.50      | 139                                                            | 370                                                          | 3333                                                       |                                                                            |                                                    | 980+20.                          | 24  |  |  |  |
| 875+50.                                   | 898+50.     | Composite Pavement Mainline                                                       | 24             | 2300            | 6133          | 613                                          | 307                                   | 307                                                              | 1.75      | 298                                                               | 1.50      | 256                                                            | 681                                                          | 5433                                                       |                                                                            |                                                    | 1147+80.                         | 24  |  |  |  |
| 898+50.                                   | 903+62.     | Flexible Pavement Mainline                                                        | 24             | 512             | 1365          | 137                                          | 68                                    | 68                                                               | 1.75      | 66                                                                | 1.50      | 57                                                             | 152                                                          | 1365                                                       |                                                                            |                                                    | 1151+00.                         | 24  |  |  |  |
| 903+62.                                   | 906+30.     | Composite Pavement Mainline                                                       | 24             | 268             | 715           | 72                                           | 36                                    | 36                                                               | 1.75      | 35                                                                | 1.50      | 30                                                             | 79                                                           | 715                                                        |                                                                            |                                                    | 1184+45.                         | 24  |  |  |  |
| 906+30.                                   | 912+00.     | Flexible Pavement Mainline                                                        | 24             | 570             | 1520          | 152                                          | 76                                    | 76                                                               | 1.75      | 74                                                                | 1.50      | 63                                                             | 169                                                          | 1520                                                       |                                                                            |                                                    | 1186+65.                         | 24  |  |  |  |
| 912+00.                                   | 939+50.     | Composite Pavement Mainline                                                       | 24             | 2750            | 7333          | 733                                          | 367                                   | 367                                                              | 1.75      | 356                                                               | 1.50      | 306                                                            | 815                                                          | 7333                                                       |                                                                            |                                                    |                                  |     |  |  |  |
| 939+50.                                   | 949+00.     | Flexible Pavement Mainline                                                        | 24             | 950             | 2533          | 253                                          | 127                                   | 127                                                              | 1.75      | 123                                                               | 1.50      | 106                                                            | 281                                                          | 2533                                                       |                                                                            |                                                    |                                  |     |  |  |  |
| 949+00.                                   | 1222+00.    | Composite Pavement Mainline                                                       | 24             | 27300           | 72800         | 7280                                         | 3640                                  | 3640                                                             | 1.75      | 3539                                                              | 1.50      | 3033                                                           | 8089                                                         | 70700                                                      |                                                                            |                                                    |                                  |     |  |  |  |
| 1222+00.                                  | 1222+50.    | Butt joint                                                                        | 24             | 50              | 133           | 13                                           |                                       | 7                                                                | 1.75      | 6                                                                 | 1.50      | 6                                                              |                                                              |                                                            | 133                                                                        |                                                    |                                  |     |  |  |  |
| 853+00.                                   | 856+25.     | ACCEL LANE "N-E" IR-71                                                            | 9              | 325             | 325           | 33                                           | 16                                    | 16                                                               | 1.75      | 16                                                                | 1.50      | 14                                                             | 36                                                           | 325                                                        |                                                                            |                                                    |                                  |     |  |  |  |
| 853+00.                                   | 863+00.     | ACCEL LANE "N-E" IR-71                                                            | 2              | 1000            | 222           | 22                                           |                                       | 11                                                               | 1.75      | 11                                                                | 1.50      | 9                                                              |                                                              |                                                            | 222                                                                        | 278                                                |                                  |     |  |  |  |
| 863+00.                                   | 868+75.     | ACCEL LANE "N-E" IR-71                                                            | 11.94          | 575             | 763           | 76                                           | 38                                    | 38                                                               | 1.75      | 37                                                                | 1.50      | 32                                                             | 85                                                           | 763                                                        | 128                                                                        | 160                                                |                                  |     |  |  |  |
| 873+60.                                   | 874+75.     | ACCEL LANE "S-E" IR-71                                                            | 10             | 115             | 128           | 13                                           | 6                                     | 6                                                                | 1.75      | 6                                                                 | 1.50      | 5                                                              | 14                                                           | 128                                                        | 26                                                                         | 32                                                 |                                  |     |  |  |  |
| 874+75.                                   | 879+09.     | ACCEL LANE "S-E" IR-71                                                            | 2              | 434             | 96            | 10                                           |                                       | 5                                                                | 1.75      | 5                                                                 | 1.50      | 4                                                              |                                                              |                                                            | 96                                                                         | 121                                                |                                  |     |  |  |  |
| 880+51.                                   | 881+50.     | ACCEL LANE "S-E" IR-71                                                            | 2              | 99              | 22            | 2                                            |                                       | 1                                                                | 1.75      | 1                                                                 | 1.50      | 1                                                              |                                                              |                                                            | 22                                                                         | 28                                                 |                                  |     |  |  |  |
| 881+50.                                   | 888+17.     | ACCEL LANE "S-E" IR-71                                                            | 2              | 667             | 148           | 15                                           |                                       | 7                                                                | 1.75      | 7                                                                 | 1.50      | 6                                                              |                                                              |                                                            | 148                                                                        | 185                                                |                                  |     |  |  |  |
| 927+64.                                   | 928+64.     | TAPER "D" SR3                                                                     | 6              | 100             | 67            | 7                                            | 3                                     | 3                                                                | 1.75      | 3                                                                 | 1.50      | 3                                                              | 7                                                            | 67                                                         |                                                                            |                                                    |                                  |     |  |  |  |
| 928+64.                                   | 933+78.     | DECEL LANE "D" SR3                                                                | 12             | 514             | 685           | 69                                           | 34                                    | 34                                                               | 1.75      | 33                                                                | 1.50      | 29                                                             | 76                                                           | 685                                                        |                                                                            |                                                    |                                  |     |  |  |  |
| 933+78.                                   | 936+04.     | RAMP GORE AREA "D" SR3                                                            | VAR            | 226             | 537           | 54                                           | 27                                    | 27                                                               | 1.75      | 26                                                                | 1.50      | 22                                                             | 60                                                           | 537                                                        |                                                                            |                                                    |                                  |     |  |  |  |
| 949+22.                                   | 950+98.     | RAMP GORE AREA "C" SR 3                                                           | VAR            | 176             | 290           | 29                                           | 15                                    | 15                                                               | 1.75      | 14                                                                | 1.50      | 12                                                             | 32                                                           | 290                                                        |                                                                            |                                                    |                                  |     |  |  |  |
| 950+98.                                   | 956+76.     | ACCEL LANE "C" SR 3                                                               | 12             | 578             | 771           | 77                                           | 39                                    | 39                                                               | 1.75      | 37                                                                | 1.50      | 32                                                             | 86                                                           | 771                                                        |                                                                            |                                                    |                                  |     |  |  |  |
| 956+76.                                   | 962+04.     | TAPER "C" SR 3                                                                    | 6              | 528             | 352           | 35                                           | 18                                    | 18                                                               | 1.75      | 17                                                                | 1.50      | 15                                                             | 39                                                           | 352                                                        |                                                                            |                                                    |                                  |     |  |  |  |
|                                           |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
|                                           |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
| DEDUCT FOR STRUCTURES:                    |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
| STRUCT. MED-76-1.12R (STA 879+00)         |             |                                                                                   | 24             | 142.74          | -381          | -38                                          | -19                                   | -19                                                              | 1.75      | -19                                                               | 1.50      | -16                                                            | -42                                                          | -381                                                       | 700                                                                        |                                                    |                                  |     |  |  |  |
| STRUCT. MED-76-1.58R (STA 903+60)         |             |                                                                                   | 24             | 268             | -715          | -72                                          | -36                                   | -36                                                              | 1.75      | -35                                                               | 1.50      | -30                                                            | -79                                                          | -715                                                       |                                                                            |                                                    |                                  |     |  |  |  |
| STRUCT. MED-76-2.99R (STA 978+00)         |             |                                                                                   | 24             | 149             | -397          | -40                                          | -20                                   | -20                                                              | 1.75      | -19                                                               | 1.50      | -17                                                            | -44                                                          | -397                                                       | 700                                                                        |                                                    |                                  |     |  |  |  |
| STRUCT. MED-76-6.22R (STA 1149+50)        |             |                                                                                   | 24             | 162             | -432          | -43                                          | -22                                   | -22                                                              | 1.75      | -21                                                               | 1.50      | -18                                                            | -48                                                          | -432                                                       | 700                                                                        |                                                    |                                  |     |  |  |  |
| STRUCT. MED-76-6.90R (STA 1185+50)        |             |                                                                                   | 24             | 136.1           | -363          | -36                                          | -18                                   | -18                                                              | 1.75      | -18                                                               | 1.50      | -15                                                            | -40                                                          | -363                                                       | 700                                                                        |                                                    |                                  |     |  |  |  |
| OVERHEAD STRUCT. MED-76-3.11 (STA 984+79) |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                | -24                                                          |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
| TOTAL DEDUCT STRUCTURES                   |             |                                                                                   |                |                 | -2288         | -229                                         | -115                                  | -115                                                             |           | -112                                                              |           | -96                                                            | -277                                                         | -2288                                                      | 2800                                                                       |                                                    |                                  |     |  |  |  |
|                                           |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
| EXISTING MEDIAN CROSSOVERS                |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
| 1125+20.                                  |             |                                                                                   |                |                 | 488           | 49                                           |                                       | 24                                                               | 1.75      | 24                                                                | 1.50      | 20                                                             |                                                              |                                                            | 488                                                                        |                                                    |                                  |     |  |  |  |
| 1193+00.                                  |             |                                                                                   |                |                 | 488           | 49                                           |                                       | 24                                                               | 1.75      | 24                                                                | 1.50      | 20                                                             |                                                              |                                                            | 488                                                                        |                                                    |                                  |     |  |  |  |
|                                           |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
|                                           |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
|                                           |             | NOTE: # SEE DETAIL ON SHEET 43.                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
|                                           |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
|                                           |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
|                                           |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
| Totals Carried to Gen. Sum.               |             |                                                                                   |                |                 | 101759        | 10177                                        | 5002                                  | 5088                                                             |           | 4944                                                              |           | 4241                                                           | 11090                                                        | 97229                                                      | 4684                                                                       | 804                                                |                                  | 168 |  |  |  |
|                                           |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
|                                           |             | Butt joints required at concrete approach slabs and/or bridge decks at structures |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
|                                           |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |
|                                           |             |                                                                                   |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                              |                                                            |                                                                            |                                                    |                                  |     |  |  |  |

48

138

| WB MAINLINE PAVEMENT QUANTITIES           |             |                               |                |                 |               | 407                                          | 407                                   | 407                                                              | 442       |                                                                   | 442       |                                                                | 301                                                             | 254                                                        | 254                                                                        | SPECIAL                                            | SPECIAL                          |    |  |  |  |
|-------------------------------------------|-------------|-------------------------------|----------------|-----------------|---------------|----------------------------------------------|---------------------------------------|------------------------------------------------------------------|-----------|-------------------------------------------------------------------|-----------|----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------|----------------------------------|----|--|--|--|
| BEGIN STATION                             | END STATION | DESCRIPTION                   | PAVEMENT WIDTH | PAVEMENT LENGTH | PAVEMENT AREA | TACK COAT, 702.13<br>AT 0.10 GAL PER SQ. YD. | TACK COAT,<br>AT 0.05 GAL PER SQ. YD. | TACK COAT FOR<br>INTERMEDIATE COURSE,<br>AT 0.05 GAL PER SQ. YD. | THICKNESS | ASPHALT CONCRETE<br>INTERMEDIATE<br>COURSE, 19MM, TYPE A<br>(446) | THICKNESS | ASPHALT CONCRETE<br>SURFACE<br>COURSE, 12.5MM, TYPE A<br>(446) | ASPHALT CONCRETE<br>BASE, PG64-28, AS PER<br>PLAN<br>(4" THICK) | PAVEMENT PLANING,<br>ASPHALT CONCRETE, AS<br>PER PLAN (7") | PAVEMENT PLANING,<br>ASPHALT CONCRETE, AS<br>PER PLAN (3.25"<br>AVERAGE) # | PAVEMENT OVERLAY<br>FABRIC COMPOSITE<br>(30" WIDE) | PRESSURE RELIEF JOINT,<br>TYPE C |    |  |  |  |
|                                           |             |                               | FT             | FT              | SY            | GAL                                          | GAL                                   | GAL                                                              | IN        | CY                                                                | IN        | CY                                                             | CY                                                              | SY                                                         | SY                                                                         | SQ YD                                              | STA                              | FT |  |  |  |
| WESTBOUND                                 |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
| 852+50.                                   | 853+00.     | Butt joint                    | 24             | 50              | 133           | 13                                           |                                       | 7                                                                | 1.75      | 6                                                                 | 1.50      | 6                                                              |                                                                 |                                                            | 133                                                                        |                                                    | 881+05.                          | 24 |  |  |  |
| 853+00.                                   | 864+25.     | Composite Pavement Mainline   | 24             | 1125            | 3000          | 300                                          | 150                                   | 150                                                              | 1.75      | 146                                                               | 1.50      | 125                                                            | 333                                                             | 3000                                                       |                                                                            |                                                    | 977+15.                          | 24 |  |  |  |
| 864+25.                                   | 878+68.     | Flexible Pavement Mainline    | 24             | 1443            | 3848          | 385                                          | 192                                   | 192                                                              | 1.75      | 187                                                               | 1.50      | 160                                                            | 428                                                             | 3848                                                       |                                                                            |                                                    |                                  |    |  |  |  |
| 878+68.                                   | 898+50.     | Composite Pavement Mainline   | 24             | 1982            | 5285          | 529                                          | 264                                   | 264                                                              | 1.75      | 257                                                               | 1.50      | 220                                                            | 587                                                             | 4585                                                       |                                                                            |                                                    |                                  |    |  |  |  |
| 898+50.                                   | 903+60.     | Flexible Pavement Mainline    | 24             | 510             | 1360          | 136                                          | 68                                    | 68                                                               | 1.75      | 66                                                                | 1.50      | 57                                                             | 151                                                             | 1360                                                       |                                                                            |                                                    |                                  |    |  |  |  |
| 903+60.                                   | 906+28.     | Composite Pavement Mainline   | 24             | 268             | 715           | 72                                           | 36                                    | 36                                                               | 1.75      | 35                                                                | 1.50      | 30                                                             | 79                                                              | 715                                                        |                                                                            |                                                    |                                  |    |  |  |  |
| 906+28.                                   | 912+00.     | Flexible Pavement Mainline    | 24             | 572             | 1525          | 153                                          | 76                                    | 76                                                               | 1.75      | 74                                                                | 1.50      | 64                                                             | 169                                                             | 1525                                                       |                                                                            |                                                    |                                  |    |  |  |  |
| 912+00.                                   | 1222+00.    | Composite Pavement Mainline   | 24             | 31000           | 82667         | 8267                                         | 4133                                  | 4133                                                             | 1.75      | 4019                                                              | 1.50      | 3444                                                           | 9185                                                            | 80567                                                      |                                                                            |                                                    |                                  |    |  |  |  |
| 1222+00.                                  | 1222+50.    | Butt joint                    | 24             | 50              | 133           | 13                                           |                                       | 7                                                                | 1.75      | 6                                                                 | 1.50      | 6                                                              |                                                                 |                                                            | 133                                                                        |                                                    | 980+20.                          | 24 |  |  |  |
| 860+04.                                   | 864+25.     | DECEL LANE "E-S" IR-71        | 12             | 421             | 561           | 56                                           | 28                                    | 28                                                               | 1.75      | 27                                                                | 1.50      | 23                                                             | 62                                                              | 561                                                        | 94                                                                         | 117                                                |                                  |    |  |  |  |
| 864+25.                                   | 867+04.     | DECEL LANE "E-S" IR-71        | 12             | 279             | 372           | 37                                           | 19                                    | 19                                                               | 1.75      | 18                                                                | 1.50      | 16                                                             | 41                                                              | 372                                                        |                                                                            |                                                    |                                  |    |  |  |  |
| 867+04.                                   | 868+04.     | DECEL LANE "E-S" IR-71        | 6              | 100             | 67            | 7                                            | 3                                     | 3                                                                | 1.75      | 3                                                                 | 1.50      | 3                                                              | 7                                                               | 67                                                         |                                                                            |                                                    |                                  |    |  |  |  |
| 897+56.                                   | 899+50.     | DECEL LANE "E-N" IR-71        | 2              | 194             | 43            | 4                                            |                                       | 2                                                                | 1.75      | 2                                                                 | 1.50      | 2                                                              |                                                                 |                                                            | 43                                                                         | 54                                                 |                                  |    |  |  |  |
| 899+50.                                   | 903+63.     | DECEL LANE "E-N" IR-71        | 10             | 413             | 459           | 46                                           | 23                                    | 23                                                               | 1.75      | 22                                                                | 1.50      | 19                                                             | 51                                                              | 459                                                        | 92                                                                         | 115                                                |                                  |    |  |  |  |
| 906+31.                                   | 907+50.     | DECEL LANE "E-N" IR-71        | 10             | 119             | 132           | 13                                           | 7                                     | 7                                                                | 1.75      | 6                                                                 | 1.50      | 6                                                              | 15                                                              | 132                                                        | 26                                                                         | 33                                                 |                                  |    |  |  |  |
| 921+81.                                   | 926+99.     | TAPER "A" SR 3                | 6              | 518             | 345           | 35                                           | 17                                    | 17                                                               | 1.75      | 17                                                                | 1.50      | 14                                                             | 38                                                              | 345                                                        |                                                                            |                                                    | 1147+80.                         | 24 |  |  |  |
| 926+99.                                   | 932+50.     | ACCEL LANE "A" SR 3           | 12             | 551             | 735           | 74                                           | 37                                    | 37                                                               | 1.75      | 36                                                                | 1.50      | 31                                                             | 82                                                              | 735                                                        |                                                                            |                                                    | 1151+00.                         | 24 |  |  |  |
| 932+50.                                   | 934+78.     | RAMP GORE AREA "A" SR 3       | VAR            | 228             | 290           | 29                                           | 15                                    | 15                                                               | 1.75      | 14                                                                | 1.50      | 12                                                             | 32                                                              | 290                                                        |                                                                            |                                                    | 1183+20.                         | 24 |  |  |  |
| 950+90.                                   | 953+17.     | RAMP GORE AREA "B" SR 3       | VAR            | 227             | 535           | 54                                           | 27                                    | 27                                                               | 1.75      | 26                                                                | 1.50      | 22                                                             | 59                                                              | 535                                                        |                                                                            |                                                    | 1186+40.                         | 24 |  |  |  |
| 953+17.                                   | 958+31.     | DECEL LANE "B" SR 3           | 12             | 514             | 685           | 69                                           | 34                                    | 34                                                               | 1.75      | 33                                                                | 1.50      | 29                                                             | 76                                                              | 685                                                        |                                                                            |                                                    |                                  |    |  |  |  |
| 958+31.                                   | 959+31.     | TAPER "B" SR 3                | 6              | 100             | 67            | 7                                            | 3                                     | 3                                                                | 1.75      | 3                                                                 | 1.50      | 3                                                              | 7                                                               | 67                                                         |                                                                            |                                                    |                                  |    |  |  |  |
| 1092+00.                                  | 1108+40.    | ACCEL LANE "C" WEIGH ST.      | VAR            | 1640            | 2445          | 245                                          | 122                                   | 122                                                              | 1.75      | 119                                                               | 1.50      | 102                                                            | 272                                                             | 2445                                                       |                                                                            |                                                    |                                  |    |  |  |  |
| 1123+14.                                  | 1127+68.    | RAMP GORE AREA "D" WEIGH ST.  | VAR            | 454             | 1066          | 107                                          | 53                                    | 53                                                               | 1.75      | 52                                                                | 1.50      | 44                                                             | 118                                                             | 1066                                                       |                                                                            |                                                    |                                  |    |  |  |  |
| 1127+68.                                  | 1130+16.    | DECEL LANE "D" WEIGH ST.      | 12             | 248             | 331           | 33                                           | 17                                    | 17                                                               | 1.75      | 16                                                                | 1.50      | 14                                                             | 37                                                              | 331                                                        |                                                                            |                                                    |                                  |    |  |  |  |
| 1130+16.                                  | 1131+16.    | DECEL TAPER "D" WEIGH STATION | 6              | 100             | 67            | 7                                            | 3                                     | 3                                                                | 1.75      | 3                                                                 | 1.50      | 3                                                              | 7                                                               | 67                                                         |                                                                            |                                                    |                                  |    |  |  |  |
| 1203+84.                                  | 1209+27.    | TAPER "B" SR 57               | 6              | 543             | 362           | 36                                           | 18                                    | 18                                                               | 1.75      | 18                                                                | 1.50      | 15                                                             | 40                                                              | 362                                                        |                                                                            |                                                    |                                  |    |  |  |  |
| 1209+27.                                  | 1214+70.    | ACCEL LANE "B" SR 57          | 12             | 543             | 724           | 72                                           | 36                                    | 36                                                               | 1.75      | 35                                                                | 1.50      | 30                                                             | 80                                                              | 724                                                        |                                                                            |                                                    |                                  |    |  |  |  |
| 1214+70.                                  | 1217+55.    | RAMP GORE AREA "B" SR 57      | VAR            | 285             | 622           | 62                                           | 31                                    | 31                                                               | 1.75      | 30                                                                | 1.50      | 26                                                             | 69                                                              | 622                                                        |                                                                            |                                                    |                                  |    |  |  |  |
| DEDUCT FOR STRUCTURES:                    |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
| STRUCT. MED-76-1.12L (STA 879+00)         |             |                               | 24             | 142.74          | -381          | -38                                          | -19                                   | -19                                                              | 1.75      | -19                                                               | 1.50      | -16                                                            | -42                                                             | -381                                                       | 700                                                                        |                                                    |                                  |    |  |  |  |
| STRUCT. MED-76-1.58L (STA 903+60)         |             |                               | 24             | 268             | -715          | -72                                          | -36                                   | -36                                                              | 1.75      | -35                                                               | 1.50      | -30                                                            | -79                                                             | -715                                                       |                                                                            |                                                    |                                  |    |  |  |  |
| STRUCT. MED-76-2.99L (STA 978+00)         |             |                               | 24             | 149             | -397          | -40                                          | -20                                   | -20                                                              | 1.75      | -19                                                               | 1.50      | -17                                                            | -44                                                             | -397                                                       | 700                                                                        |                                                    |                                  |    |  |  |  |
| STRUCT. MED-76-6.22L (STA 1149+50)        |             |                               | 24             | 162.16          | -432          | -43                                          | -22                                   | -22                                                              | 1.75      | -21                                                               | 1.50      | -18                                                            | -48                                                             | -432                                                       | 700                                                                        |                                                    |                                  |    |  |  |  |
| STRUCT. MED-76-6.90L (STA 1185+50)        |             |                               | 24             | 136.1           | -363          | -36                                          | -18                                   | -18                                                              | 1.75      | -18                                                               | 1.50      | -15                                                            | -40                                                             | -363                                                       | 700                                                                        |                                                    |                                  |    |  |  |  |
| OVERHEAD STRUCT. MED-76-3.11 (STA 984+79) |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                | -24                                                             |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
| TOTAL DEDUCT STRUCTURES                   |             |                               |                |                 | -2288         | -229                                         | -115                                  | -115                                                             |           | -112                                                              |           | -96                                                            | -277                                                            | -2288                                                      | 2800                                                                       |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |
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|                                           |             |                               |                |                 |               |                                              |                                       |                                                                  |           |                                                                   |           |                                                                |                                                                 |                                                            |                                                                            |                                                    |                                  |    |  |  |  |



| RAMP PAVEMENT QUANTITIES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                      |         |        |         |        |                        |                | 255               | 255                                                         |                            |                       |         |        |         |       |                        |                | 255               | 255                                                         |                            | CALC BY:<br>AMH<br>CHKD BY:<br>MJS |
|                                                      |         |        |         |        | Individual Repair Area | Type of Repair | Number of Repairs | Full Depth Pavement Removal and Rigid Replacement, Class MS | Full Depth Pavement Sawing |                       |         |        |         |       | Individual Repair Area | Type of Repair | Number of Repairs | Full Depth Pavement Removal and Rigid Replacement, Class MS | Full Depth Pavement Sawing |                                    |
|                                                      |         |        |         |        |                        |                |                   |                                                             |                            |                       |         |        |         |       |                        |                |                   |                                                             |                            |                                    |
| EB DRIVING LANE FULL DEPTH PAVEMENT REPAIR LOCATIONS |         |        |         |        |                        |                |                   |                                                             |                            |                       |         |        |         |       |                        |                |                   |                                                             |                            |                                    |
| STA                                                  | STA     | LEN-FT | WIDE-FT | SQ YD  |                        | EA             | SQ YD             | FT                                                          |                            | STA                   | STA     | LEN-FT | WIDE-FT | SQ YD |                        | EA             | SQ YD             | FT                                                          |                            |                                    |
| 852+50                                               | 865+70  | 6      | 12      | 8.00   | TRANSVERSE             | 11             | 88.00             | 396.00                                                      |                            | 1063+70               | 1076+90 | 15     | 12      | 20.00 |                        | 51             | 1020.00           | 2754.00                                                     |                            |                                    |
| 865+70                                               | 878+90  | 6      | 12      | 8.00   | TRANSVERSE             | 5              | 40.00             | 180.00                                                      |                            | 1063+70               | 1076+90 | 10     | 12      | 13.33 |                        | 1              | 13.33             | 44.00                                                       |                            |                                    |
| 865+70                                               | 878+90  | 50     | 12      | 66.67  | LONGITUDINAL           | 1              | 66.67             | 124.00                                                      |                            | 1076+90               | 1090+10 | 6      | 12      | 8.00  |                        | 16             | 128.00            | 576.00                                                      |                            |                                    |
| 865+70                                               | 878+90  | 10     | 12      | 13.33  | TRANSVERSE             | 20             | 266.67            | 880.00                                                      |                            | 1090+10               | 1103+30 | 6      | 12      | 8.00  |                        | 15             | 120.00            | 540.00                                                      |                            |                                    |
| 878+90                                               | 892+10  | 6      | 12      | 8.00   | TRANSVERSE             | 14             | 112.00            | 504.00                                                      |                            | 1090+10               | 1103+30 | 8      | 12      | 10.67 |                        | 1              | 10.67             | 40.00                                                       |                            |                                    |
| 878+90                                               | 892+10  | 9      | 12      | 12.00  | TRANSVERSE             | 1              | 12.00             | 42.00                                                       |                            | 1103+30               | 1116+50 | 6      | 12      | 8.00  |                        | 9              | 72.00             | 324.00                                                      |                            |                                    |
| 878+90                                               | 892+10  | 8      | 12      | 10.67  | TRANSVERSE             | 3              | 32.00             | 120.00                                                      |                            | 1103+30               | 1116+50 | 8      | 12      | 10.67 |                        | 2              | 21.33             | 80.00                                                       |                            |                                    |
| 892+10                                               | 905+30  | 6      | 12      | 8.00   | TRANSVERSE             | 11             | 88.00             | 396.00                                                      |                            | 1103+30               | 1116+50 | 6      | 10      | 6.67  |                        | 1              | 6.67              | 32.00                                                       |                            |                                    |
| 892+10                                               | 905+30  | 15     | 12      | 20.00  | TRANSVERSE             | 1              | 20.00             | 54.00                                                       |                            | 1116+50               | 1129+70 | 6      | 12      | 8.00  |                        | 14             | 112.00            | 504.00                                                      |                            |                                    |
| 892+10                                               | 905+30  | 125    | 12      | 166.67 | TRANSVERSE             | 1              | 166.67            | 274.00                                                      |                            | 1129+70               | 1142+90 | 6      | 12      | 8.00  |                        | 20             | 160.00            | 720.00                                                      |                            |                                    |
| 905+30                                               | 918+50  | 6      | 12      | 8.00   | TRANSVERSE             | 11             | 88.00             | 396.00                                                      |                            | 1129+70               | 1142+90 | 8      | 12      | 10.67 |                        | 2              | 21.33             | 80.00                                                       |                            |                                    |
| 905+30                                               | 918+50  | 10     | 12      | 13.33  | TRANSVERSE             | 2              | 26.67             | 88.00                                                       |                            | 1142+90               | 1156+10 | 6      | 12      | 8.00  |                        | 11             | 88.00             | 396.00                                                      |                            |                                    |
| 918+50                                               | 931+70  | 6      | 12      | 8.00   | TRANSVERSE             | 7              | 56.00             | 252.00                                                      |                            | 1142+90               | 1156+10 | 15     | 12      | 20.00 |                        | 10             | 200.00            | 540.00                                                      |                            |                                    |
| 931+70                                               | 944+90  | 6      | 12      | 8.00   | TRANSVERSE             | 5              | 40.00             | 180.00                                                      |                            | 1142+90               | 1156+10 | 7      | 12      | 9.33  |                        | 20             | 186.67            | 760.00                                                      |                            |                                    |
| 944+90                                               | 958+10  | 6      | 12      | 8.00   | TRANSVERSE             | 8              | 64.00             | 288.00                                                      |                            | 1142+90               | 1156+10 | 9      | 12      | 12.00 |                        | 1              | 12.00             | 42.00                                                       |                            |                                    |
| 958+10                                               | 971+30  | 6      | 12      | 8.00   | TRANSVERSE             | 13             | 104.00            | 468.00                                                      |                            | 1156+10               | 1169+30 | 6      | 12      | 8.00  |                        | 21             | 168.00            | 756.00                                                      |                            |                                    |
| 958+10                                               | 971+30  | 15     | 12      | 20.00  | TRANSVERSE             | 10             | 200.00            | 540.00                                                      |                            | 1156+10               | 1169+30 | 8      | 12      | 10.67 |                        | 1              | 10.67             | 40.00                                                       |                            |                                    |
| 958+10                                               | 971+30  | 8      | 12      | 10.67  | TRANSVERSE             | 1              | 10.67             | 40.00                                                       |                            | 1169+30               | 1182+50 | 6      | 12      | 8.00  |                        | 14             | 112.00            | 504.00                                                      |                            |                                    |
| 958+10                                               | 971+30  | 10     | 12      | 13.33  | TRANSVERSE             | 25             | 333.33            | 1100.00                                                     |                            | 1169+30               | 1182+50 | 6      | 10      | 6.67  |                        | 1              | 6.67              | 32.00                                                       |                            |                                    |
| 971+30                                               | 984+50  | 6      | 12      | 8.00   | TRANSVERSE             | 2              | 16.00             | 72.00                                                       |                            | 1182+50               | 1195+70 | 6      | 12      | 8.00  |                        | 5              | 40.00             | 180.00                                                      |                            |                                    |
| 971+30                                               | 984+50  | 12     | 12      | 16.00  | TRANSVERSE             | 6              | 96.00             | 288.00                                                      |                            | 1182+50               | 1195+70 | 11     | 12      | 14.67 |                        | 20             | 293.33            | 920.00                                                      |                            |                                    |
| 971+30                                               | 984+50  | 10     | 12      | 13.33  | TRANSVERSE             | 23             | 306.67            | 1012.00                                                     |                            | 1182+50               | 1195+70 | 14     | 12      | 18.67 |                        | 9              | 168.00            | 468.00                                                      |                            |                                    |
| 971+30                                               | 984+50  | 8      | 12      | 10.67  | TRANSVERSE             | 16             | 170.67            | 640.00                                                      |                            | 1182+50               | 1195+70 | 10     | 12      | 13.33 |                        | 8              | 106.67            | 352.00                                                      |                            |                                    |
| 971+30                                               | 984+50  | 9      | 12      | 12.00  | TRANSVERSE             | 20             | 240.00            | 840.00                                                      |                            | 1182+50               | 1195+70 | 9      | 12      | 12.00 |                        | 1              | 12.00             | 42.00                                                       |                            |                                    |
| 971+30                                               | 984+50  | 7      | 12      | 9.33   | TRANSVERSE             | 24             | 224.00            | 912.00                                                      |                            | 1195+70               | 1208+90 | 6      | 12      | 8.00  |                        | 13             | 104.00            | 468.00                                                      |                            |                                    |
| 984+50                                               | 997+70  | 6      | 12      | 8.00   | TRANSVERSE             | 13             | 104.00            | 468.00                                                      |                            | 1195+70               | 1208+90 | 8      | 12      | 10.67 |                        | 1              | 10.67             | 40.00                                                       |                            |                                    |
| 997+70                                               | 1010+90 | 6      | 12      | 8.00   | TRANSVERSE             | 13             | 104.00            | 468.00                                                      |                            | 1195+70               | 1208+90 | 16     | 12      | 21.33 |                        | 2              | 42.67             | 112.00                                                      |                            |                                    |
| 997+70                                               | 1010+90 | 22     | 12      | 29.33  | TRANSVERSE             | 2              | 58.67             | 136.00                                                      |                            | 1195+70               | 1208+90 | 10     | 12      | 13.33 |                        | 4              | 53.33             | 176.00                                                      |                            |                                    |
| 1010+90                                              | 1024+10 | 6      | 12      | 8.00   | TRANSVERSE             | 10             | 80.00             | 360.00                                                      |                            | 1195+70               | 1208+90 | 105    | 6       | 70.00 |                        | 1              | 70.00             | 222.00                                                      |                            |                                    |
| 1010+90                                              | 1024+10 | 6      | 10      | 6.67   | TRANSVERSE             | 1              | 6.67              | 32.00                                                       |                            | 1208+90               | 1222+00 | 6      | 12      | 8.00  |                        | 15             | 120.00            | 540.00                                                      |                            |                                    |
| 1010+90                                              | 1024+10 | 15     | 12      | 20.00  | TRANSVERSE             | 10             | 200.00            | 540.00                                                      |                            | 1208+90               | 1222+00 | 15     | 12      | 20.00 |                        | 5              | 100.00            | 270.00                                                      |                            |                                    |
| 1024+10                                              | 1037+30 | 6      | 12      | 8.00   | TRANSVERSE             | 14             | 112.00            | 504.00                                                      |                            | 1208+90               | 1222+00 | 8      | 12      | 10.67 |                        | 19             | 202.67            | 760.00                                                      |                            |                                    |
| 1037+30                                              | 1050+50 | 6      | 12      | 8.00   | TRANSVERSE             | 18             | 144.00            | 648.00                                                      |                            |                       |         |        |         |       |                        |                |                   |                                                             |                            |                                    |
| 1050+50                                              | 1063+70 | 6      | 12      | 8.00   | TRANSVERSE             | 14             | 112.00            | 504.00                                                      |                            |                       |         |        |         |       |                        |                |                   |                                                             |                            |                                    |
| 1050+50                                              | 1063+70 | 15     | 12      | 20.00  | TRANSVERSE             | 5              | 100.00            | 270.00                                                      |                            |                       |         |        |         |       |                        |                |                   |                                                             |                            |                                    |
| 1063+70                                              | 1076+90 | 6      | 12      | 8.00   | TRANSVERSE             | 9              | 72.00             | 324.00                                                      |                            |                       |         |        |         |       |                        |                |                   |                                                             |                            |                                    |
| SUBTOTALS THIS COLUMN                                |         |        |         |        |                        | 350            | 3,961.33          | 14,340.00                                                   |                            | SUBTOTALS THIS COLUMN |         |        |         |       |                        | 314            | 3,792.67          | 13,314.00                                                   |                            |                                    |
|                                                      |         |        |         |        |                        |                |                   |                                                             |                            | TOTALS THIS PAGE      |         |        |         |       |                        | 664            | 7,754             | 27,654                                                      |                            |                                    |
|                                                      |         |        |         |        |                        |                |                   |                                                             |                            |                       |         |        |         |       |                        |                |                   |                                                             |                            |                                    |
| I:\projects\77475\roadway\sheets\77475GQ003.xls      |         |        |         |        |                        |                |                   |                                                             |                            |                       |         |        |         |       |                        |                |                   |                                                             |                            |                                    |

PAVEMENT REPAIR QUANTITIES

MED - 76 - 0.61

|                                                      |         |        |         |       |                        |                |                   |                                                                   |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
|------------------------------------------------------|---------|--------|---------|-------|------------------------|----------------|-------------------|-------------------------------------------------------------------|-------------------------------|-----|-----|--------|---------|-------|------------------------|----------------|-------------------|-------------------------------------------------------------------|-------------------------------|-------------------------------------|--|
|                                                      |         |        |         |       |                        |                | 255               | 255                                                               |                               |     |     |        |         |       |                        |                | 255               | 255                                                               |                               | CALC BY:<br>AMH<br>CHK'D BY:<br>MJS |  |
|                                                      |         |        |         |       | Individual Repair Area | Type of Repair | Number of Repairs | Full Depth Pavement<br>Removal and Rigid<br>Replacement, Class MS | Full Depth Pavement<br>Sawing |     |     |        |         |       | Individual Repair Area | Type of Repair | Number of Repairs | Full Depth Pavement<br>Removal and Rigid<br>Replacement, Class MS | Full Depth Pavement<br>Sawing |                                     |  |
| EB PASSING LANE FULL DEPTH PAVEMENT REPAIR LOCATIONS |         |        |         |       |                        |                |                   |                                                                   |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| STA                                                  | STA     | LEN-FT | WIDE-FT | SQ YD |                        | EA             | SQ YD             | FT                                                                |                               | STA | STA | LEN-FT | WIDE-FT | SQ YD |                        | EA             | SQ YD             | FT                                                                |                               |                                     |  |
| 852+50                                               | 865+70  | 6      | 12      | 8.00  | TRANSVERSE             | 6              | 48.00             | 216.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 865+70                                               | 878+90  | 6      | 12      | 8.00  | TRANSVERSE             | 2              | 16.00             | 72.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 878+90                                               | 892+10  | 6      | 12      | 8.00  | TRANSVERSE             | 1              | 8.00              | 36.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 892+10                                               | 905+30  | 6      | 12      | 8.00  | TRANSVERSE             | 4              | 32.00             | 144.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 905+30                                               | 918+50  | 6      | 12      | 8.00  | TRANSVERSE             | 1              | 8.00              | 36.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 918+50                                               | 931+70  | 6      | 12      | 8.00  | TRANSVERSE             | 7              | 56.00             | 252.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 918+50                                               | 931+70  | 6      | 20      | 13.33 | TRANSVERSE             | 1              | 13.33             | 52.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 931+70                                               | 944+90  | 6      | 12      | 8.00  | TRANSVERSE             | 7              | 56.00             | 252.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 944+90                                               | 958+10  | 6      | 12      | 8.00  | TRANSVERSE             | 6              | 48.00             | 216.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 958+10                                               | 971+30  | 6      | 12      | 8.00  | TRANSVERSE             | 13             | 104.00            | 468.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 971+30                                               | 984+50  | 6      | 12      | 8.00  | TRANSVERSE             | 12             | 96.00             | 432.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 971+30                                               | 984+50  | 8      | 12      | 10.67 | TRANSVERSE             | 1              | 10.67             | 40.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 971+30                                               | 984+50  | 9      | 12      | 12.00 | TRANSVERSE             | 1              | 12.00             | 42.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 984+50                                               | 997+70  | 6      | 12      | 8.00  | TRANSVERSE             | 12             | 96.00             | 432.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 997+70                                               | 1010+90 | 6      | 12      | 8.00  | TRANSVERSE             | 1              | 8.00              | 36.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1010+90                                              | 1024+10 | 6      | 12      | 8.00  | TRANSVERSE             | 4              | 32.00             | 144.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1010+90                                              | 1024+10 | 6      | 10      | 6.67  | TRANSVERSE             | 1              | 6.67              | 32.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1024+10                                              | 1037+30 | 6      | 12      | 8.00  | TRANSVERSE             | 9              | 72.00             | 324.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1037+30                                              | 1050+50 | 6      | 12      | 8.00  | TRANSVERSE             | 7              | 56.00             | 252.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1050+50                                              | 1063+70 | 6      | 12      | 8.00  | TRANSVERSE             | 3              | 24.00             | 108.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1076+90                                              | 1090+10 | 6      | 12      | 8.00  | TRANSVERSE             | 2              | 16.00             | 72.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1090+10                                              | 1103+30 | 6      | 12      | 8.00  | TRANSVERSE             | 12             | 96.00             | 432.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1103+30                                              | 1116+50 | 6      | 12      | 8.00  | TRANSVERSE             | 8              | 64.00             | 288.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1103+30                                              | 1116+50 | 6      | 10      | 6.67  | TRANSVERSE             | 1              | 6.67              | 32.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1103+30                                              | 1116+50 | 8      | 12      | 10.67 | TRANSVERSE             | 1              | 10.67             | 40.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1103+30                                              | 1116+50 | 10     | 12      | 13.33 | TRANSVERSE             | 1              | 13.33             | 44.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1116+50                                              | 1129+70 | 6      | 12      | 8.00  | TRANSVERSE             | 16             | 128.00            | 576.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1129+70                                              | 1142+90 | 6      | 12      | 8.00  | TRANSVERSE             | 18             | 144.00            | 648.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1142+90                                              | 1156+10 | 6      | 12      | 8.00  | TRANSVERSE             | 11             | 88.00             | 396.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1156+10                                              | 1169+30 | 6      | 12      | 8.00  | TRANSVERSE             | 17             | 136.00            | 612.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1169+30                                              | 1182+50 | 6      | 12      | 8.00  | TRANSVERSE             | 12             | 96.00             | 432.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1169+30                                              | 1182+50 | 6      | 10      | 6.67  | TRANSVERSE             | 1              | 6.67              | 32.00                                                             |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1182+50                                              | 1195+70 | 6      | 12      | 8.00  | TRANSVERSE             | 7              | 56.00             | 252.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1195+70                                              | 1208+90 | 6      | 12      | 8.00  | TRANSVERSE             | 7              | 56.00             | 252.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 1208+90                                              | 1222+00 | 6      | 12      | 8.00  | TRANSVERSE             | 9              | 72.00             | 324.00                                                            |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| SUBTOTALS THIS COLUMN                                |         |        |         |       |                        | 222            | 1,792.00          | 8,018.00                                                          | SUBTOTALS THIS COLUMN         |     |     |        |         |       | 0                      | 0.00           | 0.00              |                                                                   |                               |                                     |  |
|                                                      |         |        |         |       |                        |                |                   |                                                                   | TOTALS THIS PAGE              |     |     |        |         |       | 222                    | 1,792          | 8,018             |                                                                   |                               |                                     |  |
| I:\projects\77475\roadway\sheets\77475GQ003.xls      |         |        |         |       |                        |                |                   |                                                                   |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| PAVEMENT REPAIR QUANTITIES                           |         |        |         |       |                        |                |                   |                                                                   |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| MED - 76 - 0.61                                      |         |        |         |       |                        |                |                   |                                                                   |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |
| 53<br>138                                            |         |        |         |       |                        |                |                   |                                                                   |                               |     |     |        |         |       |                        |                |                   |                                                                   |                               |                                     |  |

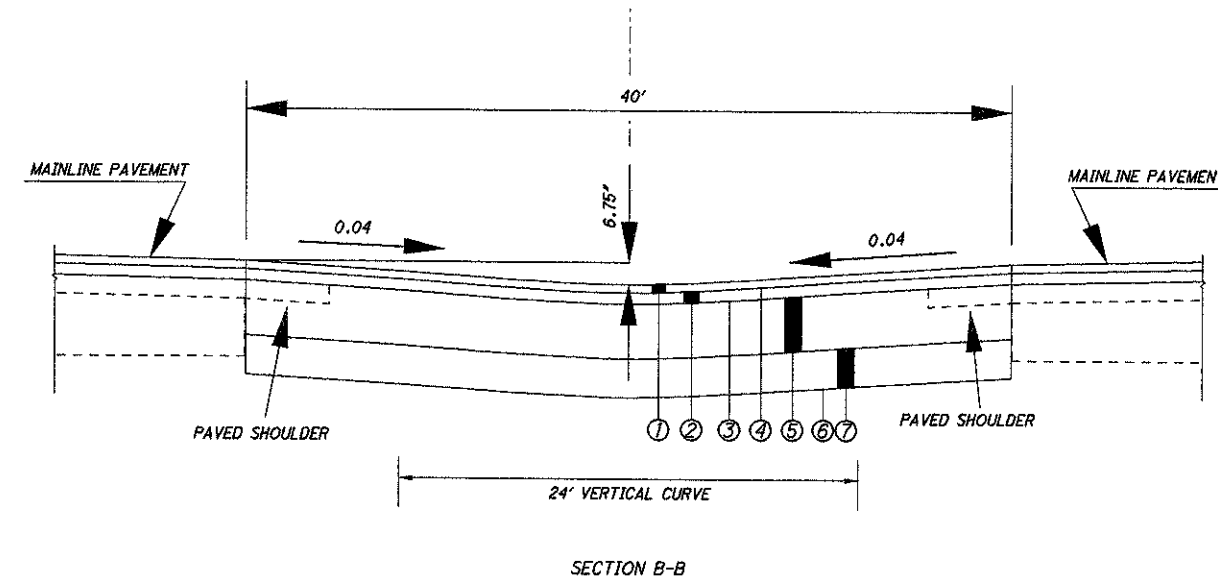
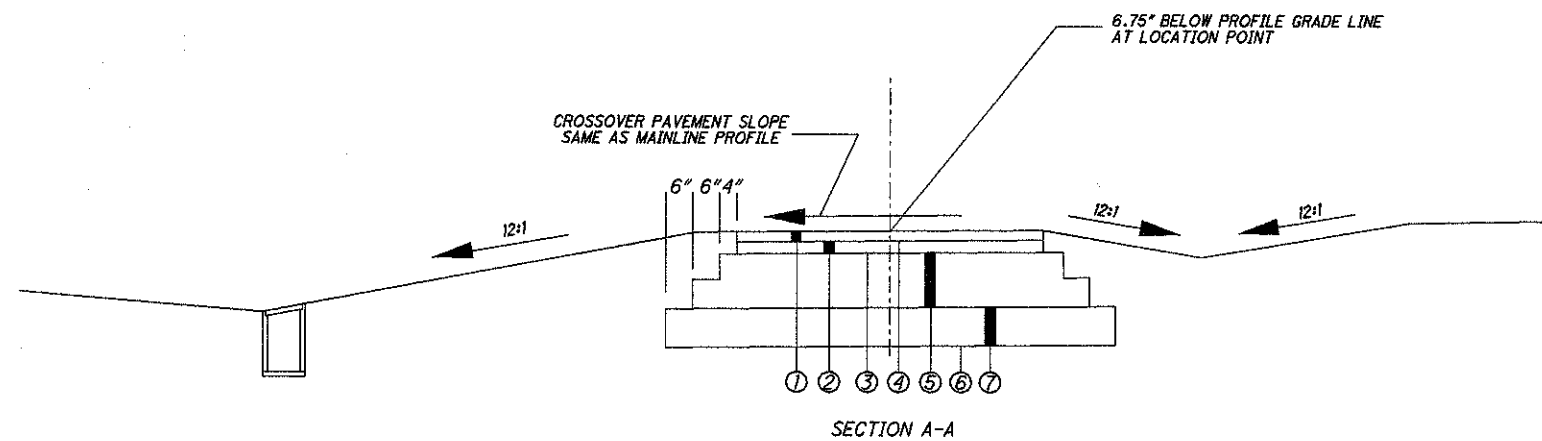
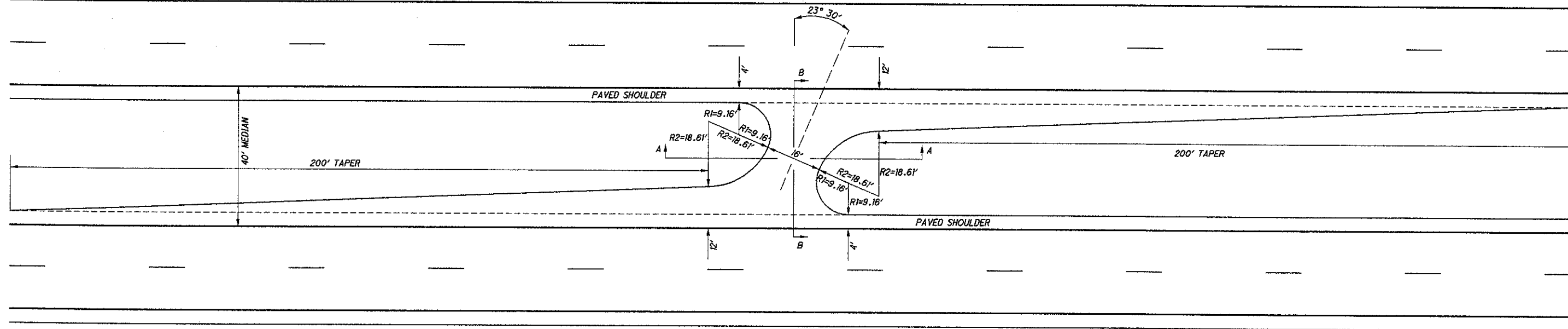
|                                                      |         |        |         |       |                        |                |                   |                                                                   |                               |                       |         |        |         |        |              |    |                        |                |                   |                                                                   |                               |  |
|------------------------------------------------------|---------|--------|---------|-------|------------------------|----------------|-------------------|-------------------------------------------------------------------|-------------------------------|-----------------------|---------|--------|---------|--------|--------------|----|------------------------|----------------|-------------------|-------------------------------------------------------------------|-------------------------------|--|
|                                                      |         |        |         |       |                        |                | 255               | 255                                                               |                               |                       |         |        |         |        |              |    | 255                    | 255            |                   | CALC BY:<br>AMH<br>CHK'D BY:<br>MJS                               |                               |  |
|                                                      |         |        |         |       | Individual Repair Area | Type of Repair | Number of Repairs | Full Depth Pavement<br>Removal and Rigid<br>Replacement, Class MS | Full Depth Pavement<br>Sawing |                       |         |        |         |        |              |    | Individual Repair Area | Type of Repair | Number of Repairs | Full Depth Pavement<br>Removal and Rigid<br>Replacement, Class MS | Full Depth Pavement<br>Sawing |  |
|                                                      |         |        |         |       |                        |                |                   |                                                                   |                               |                       |         |        |         |        |              |    |                        |                |                   |                                                                   |                               |  |
| WB DRIVING LANE FULL DEPTH PAVEMENT REPAIR LOCATIONS |         |        |         |       |                        |                |                   |                                                                   |                               |                       |         |        |         |        |              |    |                        |                |                   |                                                                   |                               |  |
| STA                                                  | STA     | LEN-FT | WIDE-FT | SQ YD |                        | EA             | SQ YD             | FT                                                                |                               | STA                   | STA     | LEN-FT | WIDE-FT | SQ YD  |              | EA | SQ YD                  | FT             |                   |                                                                   |                               |  |
| 852+50                                               | 865+70  | 6      | 12      | 8.00  | TRANSVERSE             | 3              | 24.00             | 108.00                                                            |                               | 1116+50               | 1129+70 | 10     | 12      | 13.33  | TRANSVERSE   | 1  | 13.33                  | 44.00          |                   |                                                                   |                               |  |
| 852+50                                               | 865+70  | 8      | 12      | 10.67 | TRANSVERSE             | 2              | 21.33             | 80.00                                                             |                               | 1116+50               | 1129+70 | 6      | 30      | 20.00  | TRANSVERSE   | 1  | 20.00                  | 72.00          |                   |                                                                   |                               |  |
| 852+50                                               | 865+70  | 18     | 12      | 24.00 | TRANSVERSE             | 1              | 24.00             | 60.00                                                             |                               | 1116+50               | 1129+70 | 24     | 6       | 16.00  | TRANSVERSE   | 3  | 48.00                  | 180.00         |                   |                                                                   |                               |  |
| 878+90                                               | 892+10  | 6      | 12      | 8.00  | TRANSVERSE             | 11             | 88.00             | 396.00                                                            |                               | 1129+70               | 1142+90 | 6      | 12      | 8.00   | TRANSVERSE   | 11 | 88.00                  | 396.00         |                   |                                                                   |                               |  |
| 878+90                                               | 892+10  | 9      | 12      | 12.00 | TRANSVERSE             | 1              | 12.00             | 42.00                                                             |                               | 1129+70               | 1142+90 | 20     | 6       | 13.33  | LONGITUDINAL | 1  | 13.33                  | 52.00          |                   |                                                                   |                               |  |
| 892+10                                               | 905+30  | 6      | 12      | 8.00  | TRANSVERSE             | 1              | 8.00              | 36.00                                                             |                               | 1129+70               | 1142+90 | 8      | 12      | 10.67  | TRANSVERSE   | 2  | 21.33                  | 80.00          |                   |                                                                   |                               |  |
| 905+30                                               | 918+50  | 6      | 12      | 8.00  | TRANSVERSE             | 4              | 32.00             | 144.00                                                            |                               | 1129+70               | 1142+90 | 6      | 6       | 4.00   | TRANSVERSE   | 1  | 4.00                   | 24.00          |                   |                                                                   |                               |  |
| 905+30                                               | 918+50  | 70     | 6       | 46.67 | LONGITUDINAL           | 1              | 46.67             | 152.00                                                            |                               | 1129+70               | 1142+90 | 14     | 12      | 18.67  | TRANSVERSE   | 1  | 18.67                  | 52.00          |                   |                                                                   |                               |  |
| 905+30                                               | 918+50  | 100    | 6       | 66.67 | LONGITUDINAL           | 1              | 66.67             | 212.00                                                            |                               | 1142+90               | 1156+10 | 6      | 12      | 8.00   | TRANSVERSE   | 8  | 64.00                  | 288.00         |                   |                                                                   |                               |  |
| 918+50                                               | 931+70  | 6      | 12      | 8.00  | TRANSVERSE             | 12             | 96.00             | 432.00                                                            |                               | 1142+90               | 1156+10 | 12     | 12      | 16.00  | TRANSVERSE   | 1  | 16.00                  | 48.00          |                   |                                                                   |                               |  |
| 918+50                                               | 931+70  | 8      | 12      | 10.67 | TRANSVERSE             | 2              | 21.33             | 80.00                                                             |                               | 1142+90               | 1156+10 | 16     | 12      | 21.33  | TRANSVERSE   | 1  | 21.33                  | 56.00          |                   |                                                                   |                               |  |
| 918+50                                               | 931+70  | 15     | 12      | 20.00 | TRANSVERSE             | 1              | 20.00             | 54.00                                                             |                               | 1142+90               | 1156+10 | 6      | 6       | 4.00   | LONGITUDINAL | 1  | 4.00                   | 24.00          |                   |                                                                   |                               |  |
| 931+70                                               | 944+90  | 6      | 12      | 8.00  | TRANSVERSE             | 3              | 24.00             | 108.00                                                            |                               | 1142+90               | 1156+10 | 11     | 12      | 14.67  | TRANSVERSE   | 5  | 73.33                  | 230.00         |                   |                                                                   |                               |  |
| 931+70                                               | 944+90  | 12     | 12      | 16.00 | TRANSVERSE             | 1              | 16.00             | 48.00                                                             |                               | 1142+90               | 1156+10 | 15     | 12      | 20.00  | TRANSVERSE   | 11 | 220.00                 | 594.00         |                   |                                                                   |                               |  |
| 931+70                                               | 944+90  | 10     | 12      | 13.33 | TRANSVERSE             | 6              | 80.00             | 264.00                                                            |                               | 1142+90               | 1156+10 | 10     | 12      | 13.33  | TRANSVERSE   | 2  | 26.67                  | 88.00          |                   |                                                                   |                               |  |
| 931+70                                               | 944+90  | 52     | 12      | 69.33 | LONGITUDINAL           | 1              | 69.33             | 128.00                                                            |                               | 1156+10               | 1169+30 | 6      | 12      | 8.00   | TRANSVERSE   | 12 | 96.00                  | 432.00         |                   |                                                                   |                               |  |
| 931+70                                               | 944+90  | 15     | 12      | 20.00 | TRANSVERSE             | 2              | 40.00             | 108.00                                                            |                               | 1156+10               | 1169+30 | 170    | 12      | 226.67 | LONGITUDINAL | 1  | 226.67                 | 364.00         |                   |                                                                   |                               |  |
| 931+70                                               | 944+90  | 8      | 12      | 10.67 | TRANSVERSE             | 4              | 42.67             | 160.00                                                            |                               | 1156+10               | 1169+30 | 9      | 12      | 12.00  | TRANSVERSE   | 1  | 12.00                  | 42.00          |                   |                                                                   |                               |  |
| 944+90                                               | 958+10  | 6      | 12      | 8.00  | TRANSVERSE             | 6              | 48.00             | 216.00                                                            |                               | 1169+30               | 1182+50 | 6      | 12      | 8.00   | TRANSVERSE   | 14 | 112.00                 | 504.00         |                   |                                                                   |                               |  |
| 944+90                                               | 958+10  | 8      | 12      | 10.67 | TRANSVERSE             | 1              | 10.67             | 40.00                                                             |                               | 1169+30               | 1182+50 | 8      | 12      | 10.67  | TRANSVERSE   | 3  | 32.00                  | 120.00         |                   |                                                                   |                               |  |
| 958+10                                               | 971+30  | 6      | 12      | 8.00  | TRANSVERSE             | 1              | 8.00              | 36.00                                                             |                               | 1182+50               | 1195+70 | 6      | 12      | 8.00   | TRANSVERSE   | 9  | 72.00                  | 324.00         |                   |                                                                   |                               |  |
| 971+30                                               | 984+50  | 6      | 12      | 8.00  | TRANSVERSE             | 9              | 72.00             | 324.00                                                            |                               | 1182+50               | 1195+70 | 12     | 12      | 16.00  | TRANSVERSE   | 6  | 96.00                  | 288.00         |                   |                                                                   |                               |  |
| 971+30                                               | 984+50  | 8      | 12      | 10.67 | TRANSVERSE             | 1              | 10.67             | 40.00                                                             |                               | 1182+50               | 1195+70 | 8      | 12      | 10.67  | TRANSVERSE   | 1  | 10.67                  | 40.00          |                   |                                                                   |                               |  |
| 984+50                                               | 997+70  | 6      | 12      | 8.00  | TRANSVERSE             | 6              | 48.00             | 216.00                                                            |                               | 1182+50               | 1195+70 | 10     | 12      | 13.33  | TRANSVERSE   | 2  | 26.67                  | 88.00          |                   |                                                                   |                               |  |
| 984+50                                               | 997+70  | 100    | 6       | 66.67 | LONGITUDINAL           | 1              | 66.67             | 212.00                                                            |                               | 1195+70               | 1208+90 | 6      | 12      | 8.00   | TRANSVERSE   | 15 | 120.00                 | 540.00         |                   |                                                                   |                               |  |
| 984+50                                               | 997+70  | 120    | 6       | 80.00 | LONGITUDINAL           | 1              | 80.00             | 252.00                                                            |                               | 1195+70               | 1208+90 | 12     | 12      | 16.00  | TRANSVERSE   | 20 | 320.00                 | 960.00         |                   |                                                                   |                               |  |
| 997+70                                               | 1010+90 | 6      | 12      | 8.00  | TRANSVERSE             | 12             | 96.00             | 432.00                                                            |                               | 1195+70               | 1208+90 | 50     | 12      | 66.67  | TRANSVERSE   | 1  | 66.67                  | 124.00         |                   |                                                                   |                               |  |
| 1010+90                                              | 1024+10 | 6      | 12      | 8.00  | TRANSVERSE             | 9              | 72.00             | 324.00                                                            |                               | 1195+70               | 1208+90 | 8      | 12      | 10.67  | TRANSVERSE   | 1  | 10.67                  | 40.00          |                   |                                                                   |                               |  |
| 1024+10                                              | 1037+30 | 6      | 12      | 8.00  | TRANSVERSE             | 16             | 128.00            | 576.00                                                            |                               | 1195+70               | 1208+90 | 16     | 12      | 21.33  | TRANSVERSE   | 1  | 21.33                  | 56.00          |                   |                                                                   |                               |  |
| 1037+30                                              | 1050+50 | 6      | 12      | 8.00  | TRANSVERSE             | 2              | 16.00             | 72.00                                                             |                               | 1195+70               | 1208+90 | 6      | 15      | 10.00  | LONGITUDINAL | 2  | 20.00                  | 84.00          |                   |                                                                   |                               |  |
| 1050+50                                              | 1063+70 | 6      | 12      | 8.00  | TRANSVERSE             | 3              | 24.00             | 108.00                                                            |                               | 1208+90               | 1222+00 | 6      | 12      | 8.00   | TRANSVERSE   | 11 | 88.00                  | 396.00         |                   |                                                                   |                               |  |
| 1063+70                                              | 1076+90 | 6      | 12      | 8.00  | TRANSVERSE             | 6              | 48.00             | 216.00                                                            |                               | 1208+90               | 1222+00 | 6      | 30      | 20.00  | LONGITUDINAL | 1  | 20.00                  | 72.00          |                   |                                                                   |                               |  |
| 1076+90                                              | 1090+10 | 6      | 12      | 8.00  | TRANSVERSE             | 11             | 88.00             | 396.00                                                            |                               | 1208+90               | 1222+00 | 8      | 12      | 10.67  | TRANSVERSE   | 1  | 10.67                  | 40.00          |                   |                                                                   |                               |  |
| 1090+10                                              | 1103+30 | 6      | 12      | 8.00  | TRANSVERSE             | 11             | 88.00             | 396.00                                                            |                               | 1208+90               | 1222+00 | 6      | 6       | 4.00   | LONGITUDINAL | 1  | 4.00                   | 24.00          |                   |                                                                   |                               |  |
| 1103+30                                              | 1116+50 | 6      | 12      | 8.00  | TRANSVERSE             | 8              | 64.00             | 288.00                                                            |                               | 1208+90               | 1222+00 | 7      | 12      | 9.33   | TRANSVERSE   | 1  | 9.33                   | 38.00          |                   |                                                                   |                               |  |
| 1116+50                                              | 1129+70 | 6      | 12      | 8.00  | TRANSVERSE             | 8              | 64.00             | 288.00                                                            |                               |                       |         |        |         |        |              |    |                        |                |                   |                                                                   |                               |  |
| SUBTOTALS THIS COLUMN                                |         |        |         |       |                        | 169            | 1,764.00          | 7,044.00                                                          |                               | SUBTOTALS THIS COLUMN |         |        |         |        |              |    | 154                    | 2,026.67       | 6,804.00          |                                                                   |                               |  |
|                                                      |         |        |         |       |                        |                |                   |                                                                   |                               | TOTALS THIS PAGE      |         |        |         |        |              |    | 323                    | 3,791          | 13,848            |                                                                   |                               |  |
|                                                      |         |        |         |       |                        |                |                   |                                                                   |                               |                       |         |        |         |        |              |    |                        |                |                   |                                                                   |                               |  |
| I:\projects\77475\roadway\sheets\77475GQ003.xls      |         |        |         |       |                        |                |                   |                                                                   |                               |                       |         |        |         |        |              |    |                        |                |                   |                                                                   | 54<br>138                     |  |

PAVEMENT REPAIR QUANTITIES

MED - 76 - 0.61

CALC BY:  
AMH  
CHK'D BY:  
MJS





PROPOSED U-TURN MEDIAN CROSSOVERS INCLUDING PAVED SHOULDER:  
 STA 912+95  
 STA 974+20

**LEGEND - PROPOSED**

- ① 1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- ② 1.75" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)
- ③ ITEM 407, TACK COAT
- ④ ITEM 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 8.50" ITEM 301 ASPHALT CONCRETE BASE, PG64-28 AS PER PLAN
- ⑥ ITEM 204 SUBGRADE COMPACTION
- ⑦ 6.00" ITEM 304 AGGREGATE BASE



PC Sta. 10+00 = Sta. 960+00

CROSSOVER CURVE DATA

P.I. = Sta. 15+25.49

$$\Delta = 10^{\circ} 29' 57'' \text{ (RT)}$$

$D_c = 3^{\circ} 00'$

$R = 1,910.00^*$

$$T = 175.49'$$

$L = 350.00'$

$$E = 8.05'$$

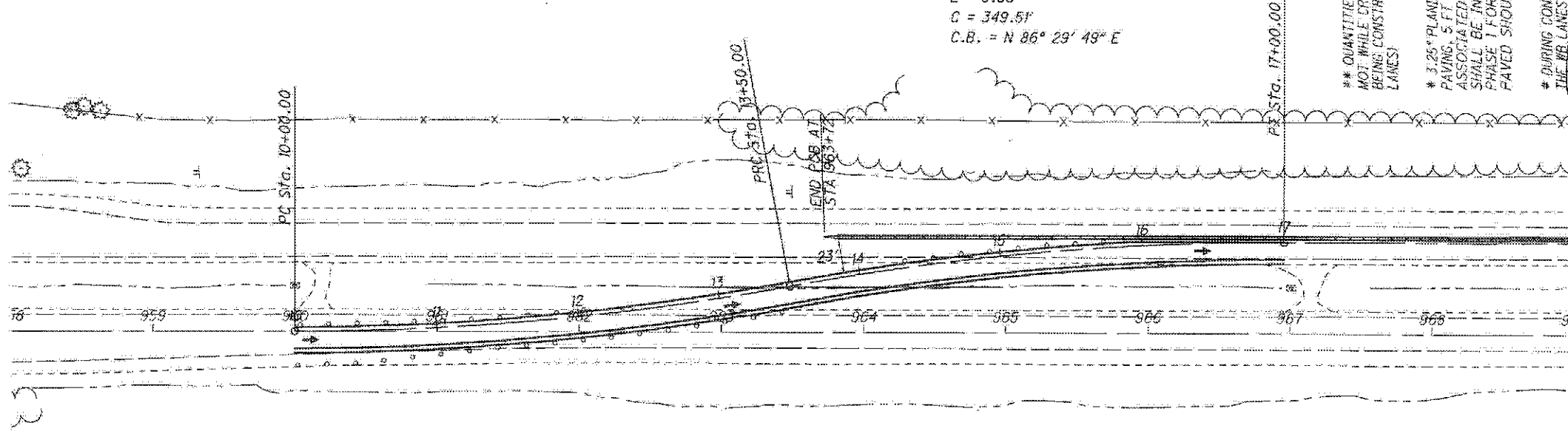
$C = 349.51^\circ$

C.B. = N 86° 29' 48" E

**\*\* QUANTITIES NEEDED FOR  
MOT WHILE Crossover IS  
BEING CONSTRUCTED (EB  
LANES)**

\* 3.25" PLANKING AND PAVING, 5 FT WIDE, AND ASSOCIATED MOT ITEMS SHALL BE INCLUDED IN PHASE I FOR THE OUTSIDE PAVED SHOULDER.

\* DURING CONSTRUCTION OF THE WB LANES IN STAGE 2, PHASE 1, 3.25' PLANNING AND PAVING, 5 FT WIDE, WILL BE REQUIRED ON THE OUTSIDE PAVED SHOULDER.



### CROSSOVER CURVE DATA

P.I. = Sto. II+75.49

 $\Delta = 10^{\circ} 29' 57''$  (LT)
$$D_c = 3^{\circ} 00'$$
$$R = 1.910.000$$

$T = 175.49'$

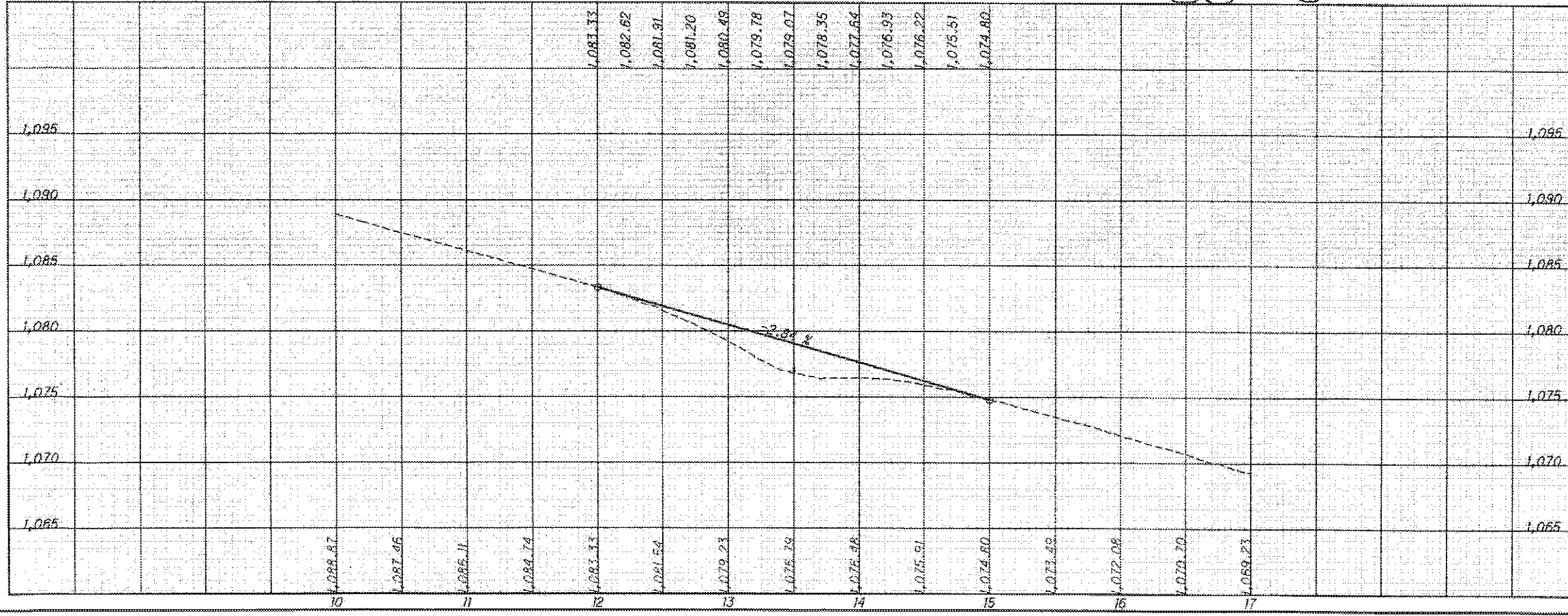
L = 350.00

 $E = 8.05'$  $C = 349.51'$ 

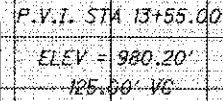
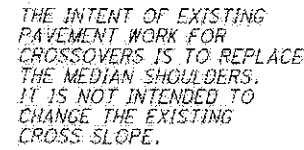
C.B. = N 86° 29' 49" E

THE INTENT OF EXISTING  
PAVEMENT WORK FOR  
CROSSOVERS IS TO REPLACE  
THE MEDIAN SHOULDERS.  
IT IS NOT INTENDED TO  
CHANGE THE EXISTING  
CROSS SLOPE.

THE 230 FT OF PCB IN THE  
TABLE WAS STOPPED SO WB  
TRAFFIC CAN SEE THE  
UPCOMING DECEL LANE.  
DUMPS CAN BE USED THE  
REMAINDER OF THE LENGTH  
SINCE A 12 FT BUFFER  
EXISTS. THIS 230 FT OF  
PCB IS USED TO PROTECT A  
MOTORIST WHO  
ACCIDENTALLY CROSSES THE  
MEDIAN.

[illegible]

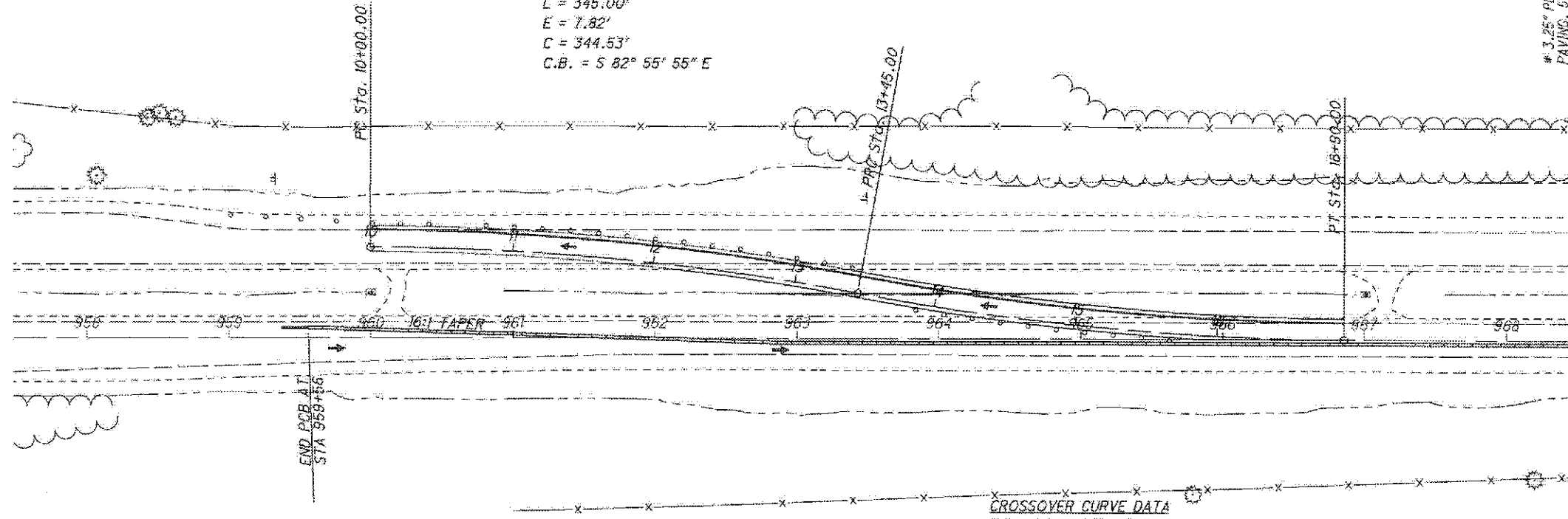
\* 3.25" PLAINING AND PAVING, 5 FT WIDE, AND ASSOCIATED NOT ITEMS SHALL BE INCLUDED IN PHASE I FOR THE OUTSIDE PAVED SHOULDER.



PC Sta. 10+00 = Sta 960+00

CROSSOVER CURVE DATA

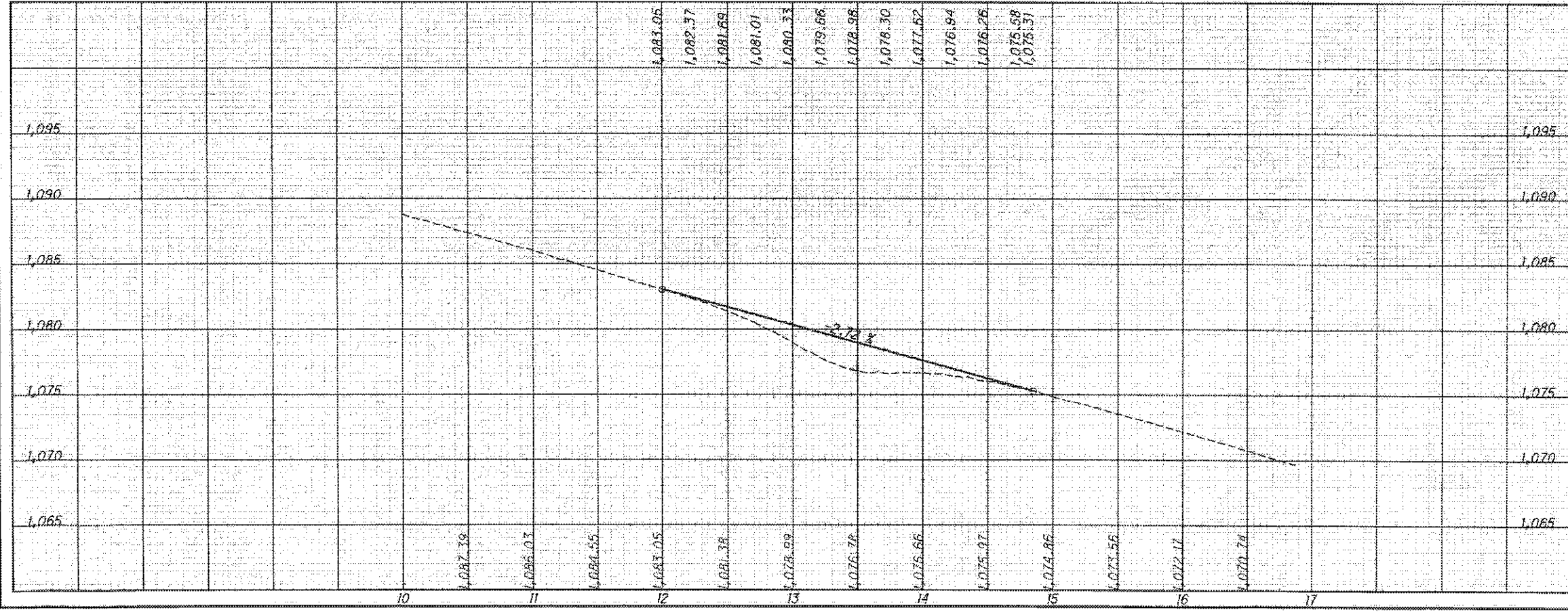
P.I. = Sta. 11+72.97  
 $\Delta = 10^\circ 20' 57''$  (RT)  
 $D_c = 3^\circ 00' 00''$   
 $R = 1,910.00'$   
 $T = 172.97'$   
 $L = 345.00'$   
 $E = 7.82'$   
 $C = 344.53'$   
C.B. =  $S 82^\circ 55' 55'' E$



CROSSOVER CURVE DATA

P.I. = Sta. 15+17.97  
 $\Delta = 10^\circ 20' 57''$  (LT)  
 $D_c = 3^\circ 00' 00''$   
 $R = 1,910.00'$   
 $T = 172.97'$   
 $L = 345.00'$   
 $E = 7.82'$   
 $C = 344.53'$   
C.B. =  $S 82^\circ 55' 55'' E$

THE INTENT OF EXISTING PAVEMENT WORK FOR CROSSOVERS IS TO REPLACE THE MEDIAN SHOULDERS. IT IS NOT INTENDED TO CHANGE THE EXISTING CROSS SLOPE.



\* 3.25" PLANKING AND PAVING, 6 FT WIDE, AND ASSOCIATED MOT ITEMS SHALL BE INCLUDED IN PHASE 1 FOR THE OUTSIDE PAVED SHOULDER.

| REF NO.                           | STATION           |           | SIDE                | OUTSIDE SHOULDER PAVING AND PAVING, 5 FT WIDE |           |     |       |     |      |      |     |     |     |
|-----------------------------------|-------------------|-----------|---------------------|-----------------------------------------------|-----------|-----|-------|-----|------|------|-----|-----|-----|
|                                   | FROM              | TO        |                     | ROADS FOR MAINTAINING TRAFFIC                 | WORK ZONE | 614 | 615   | 616 | 617  | 618  | 619 | 620 | 621 |
|                                   | PHASE 2 CROSSOVER |           |                     | LUMP                                          | 614       | 615 | 616   | 617 | 618  | 619  | 620 | 621 | 622 |
|                                   | 959+56            | 966+86.09 | EB SIDE STG 2, PH 1 | LUMP                                          | 614       | 615 | 616   | 617 | 618  | 619  | 620 | 621 | 622 |
|                                   | 960+00            | 966+86.09 | EB SIDE             |                                               | 614       | 615 | 616   | 617 | 618  | 619  | 620 | 621 | 622 |
|                                   | 966+86.09         | 966+86.09 | EB SIDE             |                                               | 614       | 615 | 616   | 617 | 618  | 619  | 620 | 621 | 622 |
|                                   | 945+81            | 950+50    | EB SIDE             |                                               | 614       | 615 | 616   | 617 | 618  | 619  | 620 | 621 | 622 |
|                                   | 950+00            | 956+86.09 | EB SIDE             |                                               | 614       | 615 | 616   | 617 | 618  | 619  | 620 | 621 | 622 |
|                                   | 943+81            | 950+50    | EB SIDE             |                                               | 614       | 615 | 616   | 617 | 618  | 619  | 620 | 621 | 622 |
|                                   | 958+00            | 966+86.09 | EB SIDE             |                                               | 614       | 615 | 616   | 617 | 618  | 619  | 620 | 621 | 622 |
|                                   | 937+21            | 966+86.09 | EB SIDE             |                                               | 614       | 615 | 616   | 617 | 618  | 619  | 620 | 621 | 622 |
| TOTALS CARRIED TO GENERAL SUMMARY |                   |           |                     | LUMP                                          | 3         | 627 | 24649 | 4   | 9.17 | 9.13 | 27  | 32  | 450 |

PC Sta. 10+00 = Sta. 1195+00

### CROSSOVER CURVE DATA

P.I. = \$10.15 + 25.49

$$\Delta = 10^{\circ} 29' 57'' \text{ (RT)}$$

$De = 3^{\circ} 00' 00''$

R = 1,910.00'

$$T = 175.49'$$

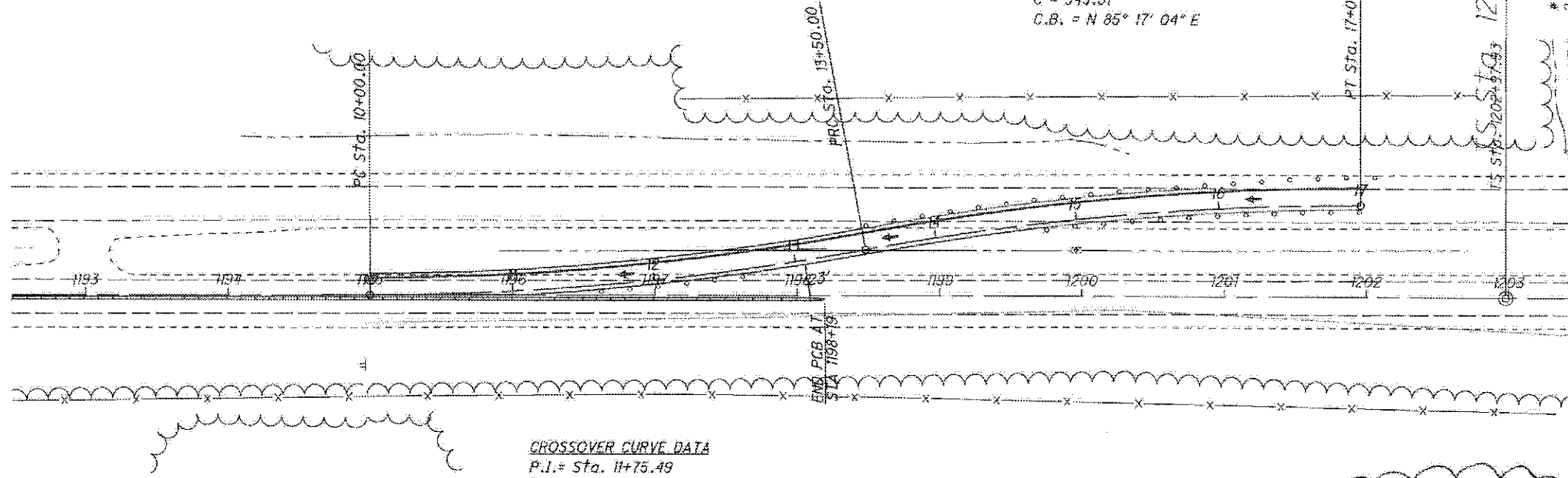
L = 350.00'

 $E = 8.05'$ 

$C = 349.51^\circ$

C.B. = N 85° 17' 04" E

\* 3.25" PLANTING AND  
PAYING, 5 FT. WIDE, AND  
SHALL BE INCLUDED IN  
PHASE I FOR THE OUTSIDE  
PAVED SHOULDER.



CROSSOVER CURVE DATA

P.L. = Sta. 11+75.49

 $\Delta = 10^{\circ} 29' 57''$  (LT)
$$Dc = 3^{\circ} 00' 00''$$

$R = 1,910.00'$

 $T = 175.49'$ 

L = 350.00'

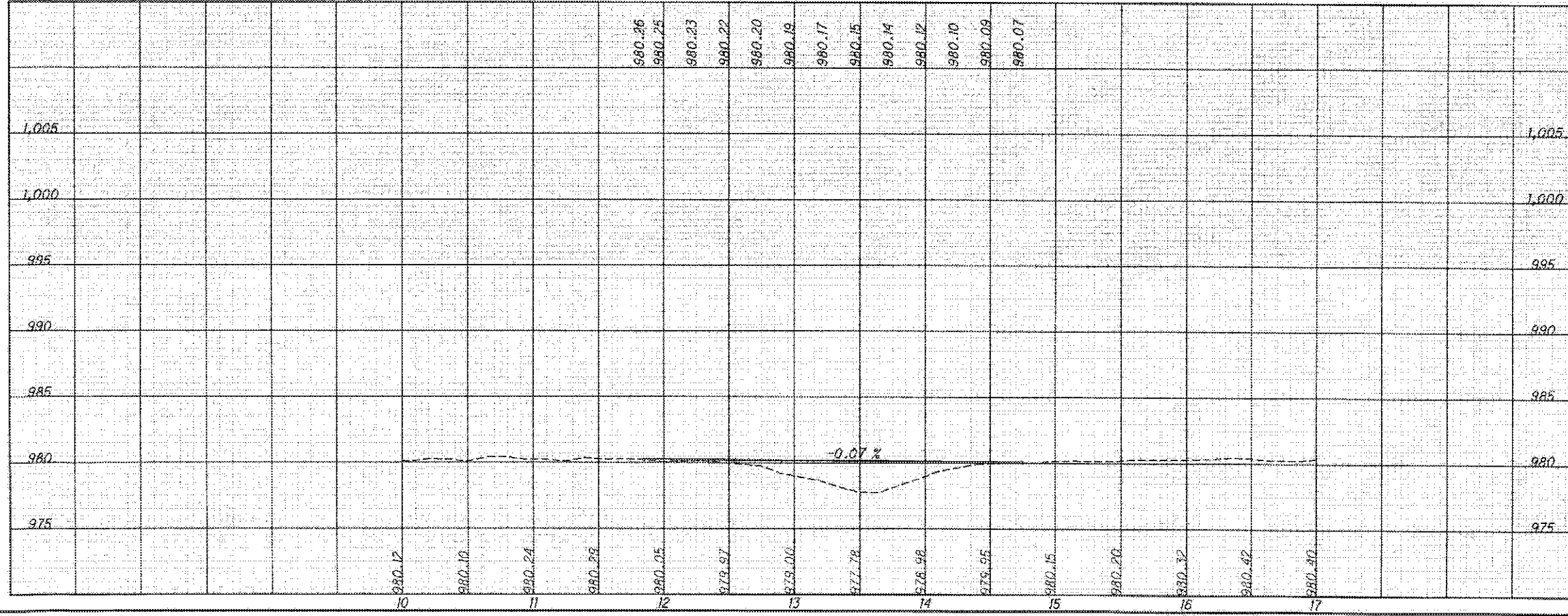
$$E = 8.05'$$

$C = 348.51'$

C.B. = N 85° 17' 04" E

THE INTENT OF EXISTING  
PAVEMENT WORK FOR  
CROSSOVERS IS TO REPLACE  
THE MEDIAN SHOULDERS.  
IT IS NOT INTENDED TO  
CHANGE THE EXISTING  
CROSS SLOPE.

# 095+00 TO 1200+39 EB  
SIDE 3.25" P&P SHALL BE  
COMPLETED DURING STAGE  
1, PHASE 4 - NO PCB  
REQUIRED FOR THIS WORK.

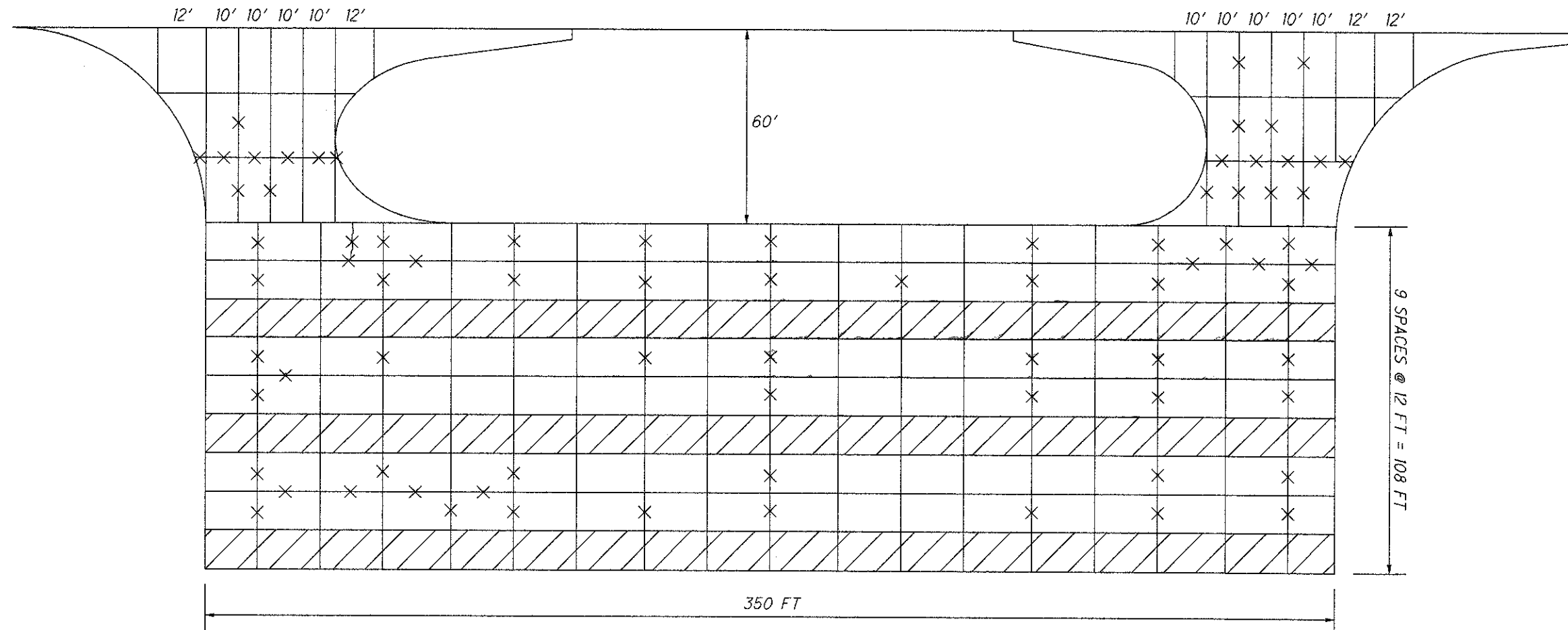
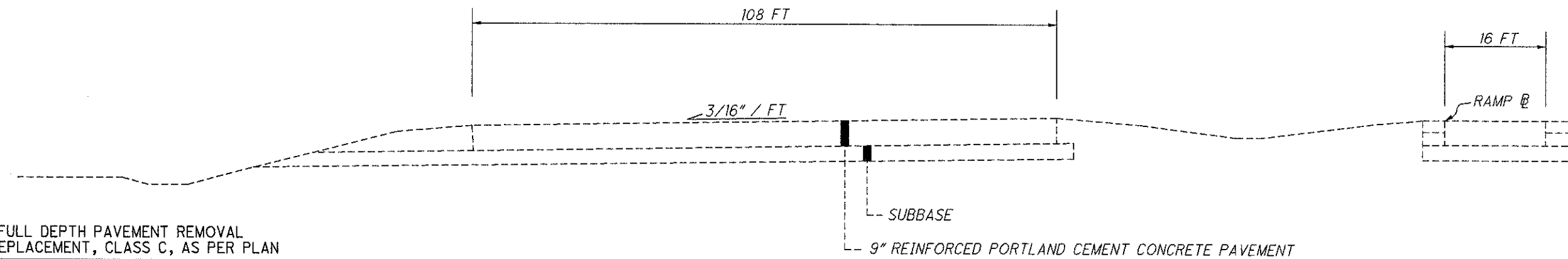
[illegible]

DESIGN FILE: I:\projects\77475\roadway\sheet\77475GA003.dgn  
WORKSTATION: mschafra DATE: 10/8/2009

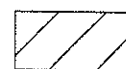
ITEM 255 - FULL DEPTH PAVEMENT REMOVAL  
AND RIGID REPLACEMENT, CLASS C, AS PER PLAN

SINCE THE ITEM 255 REPAIRS ARE ONLY 2 FT WIDE,  
THE DOWELING REQUIREMENTS ARE WAIVED.

EXISTING TYPICAL  
WESTBOUND WEIGH STATION



X 2 FT WIDE ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS C, AS PER PLAN



FULL SLAB REPLACEMENT ITEM 451 - 9" REINFORCED CONCRETE PAVEMENT (MATCH EXISTING JOINTS)

2 FT WIDE JOINT REPLACEMENTS (NOT DOWELED)

ITEM 204 SUBGRADE COMPACTION = 231 SQ YDS

ITEM 255 FULL DEPTH PAVEMENT SAWING = 2232 FT

ITEM 255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS C, APP = 231 SQ YDS

FULL SLAB REPLACEMENTS

ITEM 204 SUBGRADE COMPACTION = 1400 SQ YDS

ITEM 255 FULL DEPTH PAVEMENT SAWING = 1750 FT

ITEM 202 PAVEMENT REMOVED = 1400 SQ YDS

ITEM 451 9" REINFORCED CONCRETE PAVEMENT = 1400 SQ YDS

CONCRETE PAVEMENT AND JOINT REPAIRS  
WESTBOUND WEIGH STATION PARKING AREA

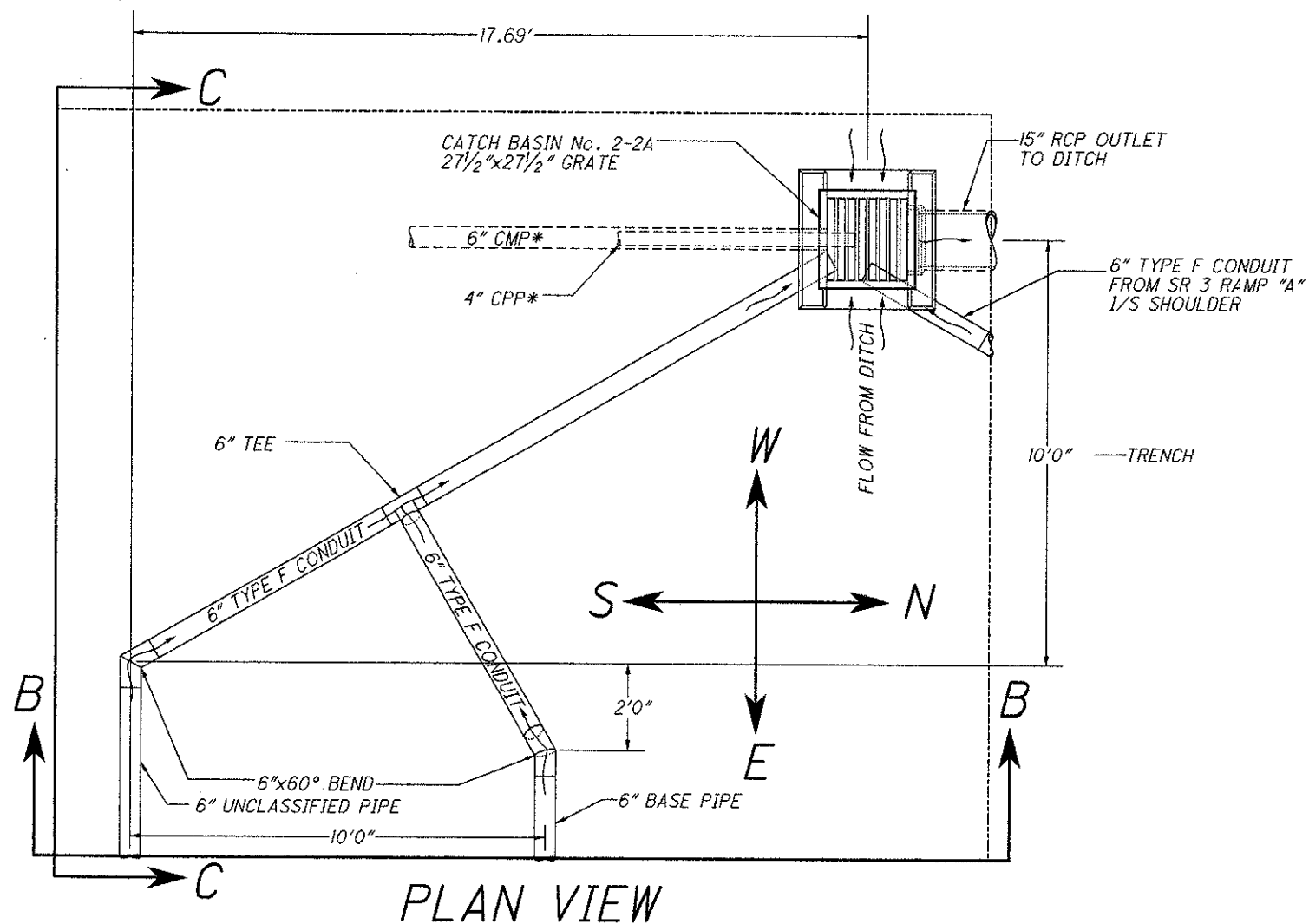
MED-76-0.61

63  
138

CALCULATED  
MJS  
CHECKED  
BAD

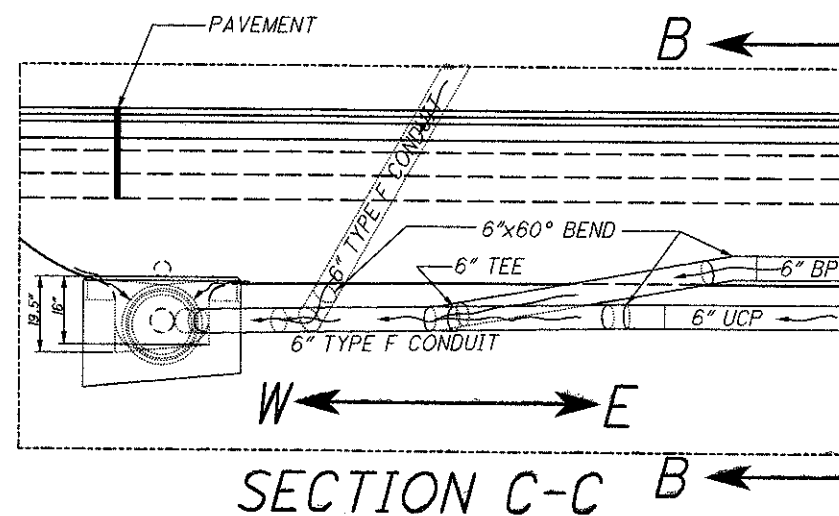
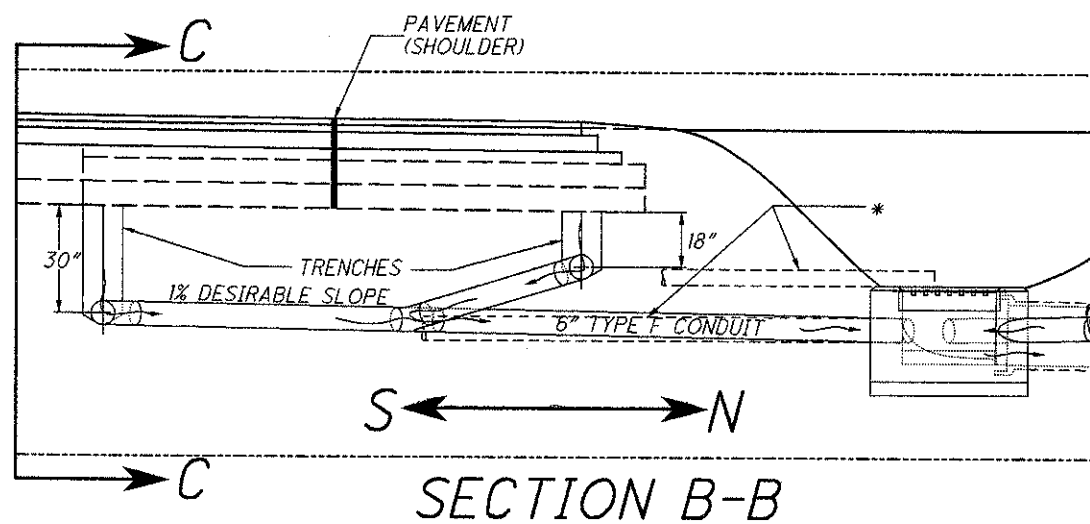
DESIGN FILE: I:\projects\77475\roadway\sheet\77475DS003.dgn  
WORKSTATION: mschafra DATE: 10/8/2009

PROPOSED CONNECTION FOR CATCH BASIN AT STA.936+50  
(GORE AREA BETWEEN SR 3 RAMP "A" & I-76 WB LANE)



NOTES

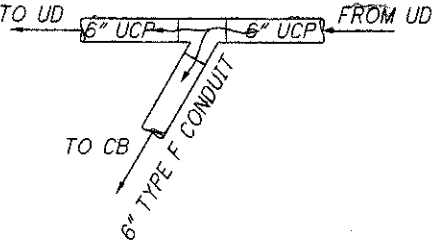
- DRAWING IN 40 SCALE, WITH 1in = 4ft
- CB DIMENSIONS SHOWN SPECIFIC TO THIS CB
- CATCH BASIN HAS -93.69ft OFFSET FROM CENTER OF EB LANE
- \*EXISTING PIPE
- PROPOSED CONNECTION (INVOLVING 6\"/>
- CORING INTO SIDE OF CATCH BASINS SHALL BE INCLUDED IN THE COST OF THE UNDERDRAIN PAY ITEMS.



PROPOSED CONNECTIONS FOR INSIDE LANE  
UNDERDRAINS TO MEDIAN CATCH BASINS

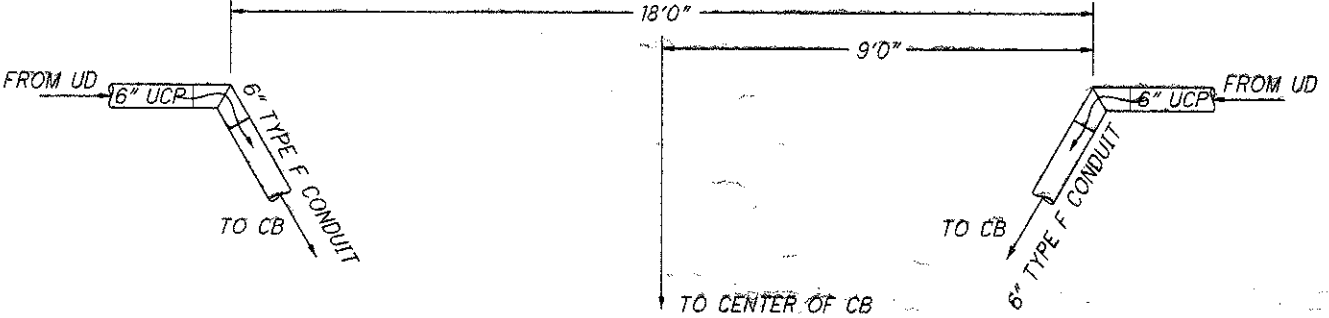
CONNECTION #1:

TYPE: CONTINUOUS  
USED FOR: REGULAR OUTLET TO CB  
PARTS: (1) 6"x60° WYE  
6" TYPE F CONDUIT: 19ft



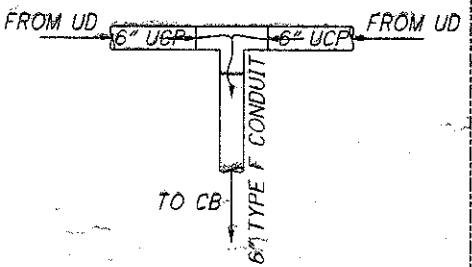
CONNECTION #2:

TYPE: DISCONTINUOUS  
USED FOR: LOW POINT WITH A BREAK  
PARTS: (2) 6"x60° BEND  
6" TYPE F CONDUIT: 2 X 19ft



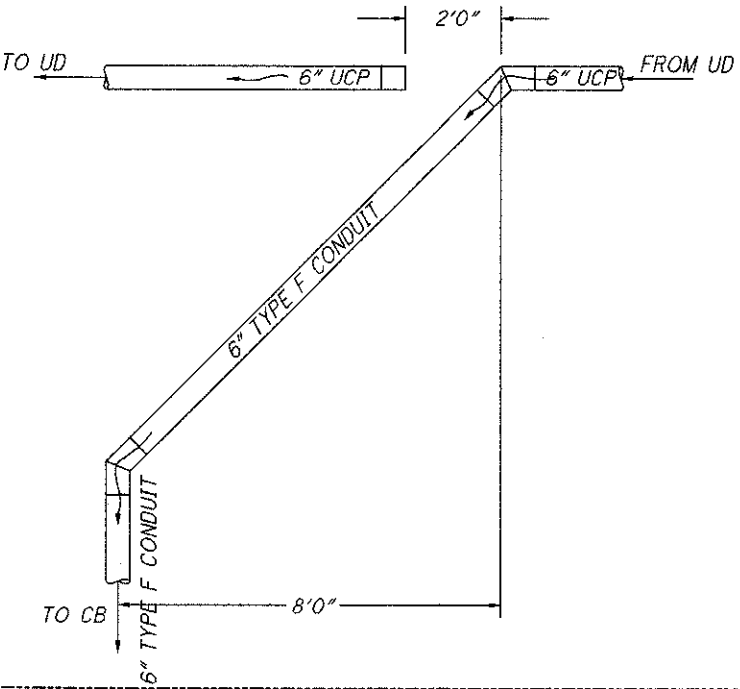
CONNECTION #3:

TYPE: CONTINUOUS  
USED FOR: REGULAR LOW POINT  
PARTS: (1) 6" TEE  
6" TYPE F CONDUIT: 16ft



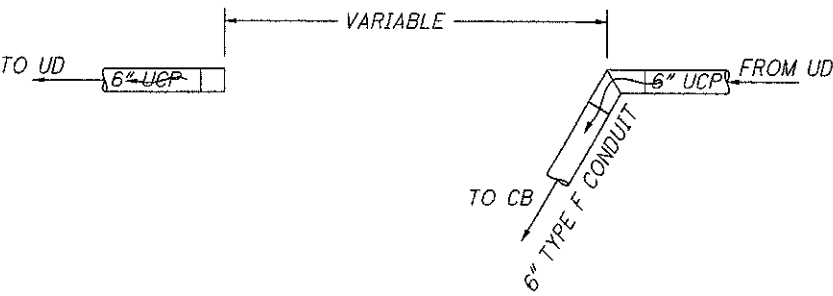
CONNECTION #4:

TYPE: DISCONTINUOUS  
USED FOR: TYING UD CONDUIT TO EXISTING PERPENDICULAR INLET  
PARTS: (2) 6"x45° BEND  
(1) PLUG  
6" TYPE F CONDUIT: 12ft+8ft

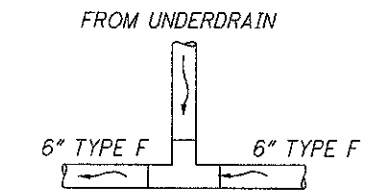


CONNECTION #5:

TYPE: DISCONTINUOUS  
USED FOR: REGULAR BREAK  
PARTS: (1) 6"x60° BEND  
(1) 6" PLUG  
6" TYPE F CONDUIT: 19ft

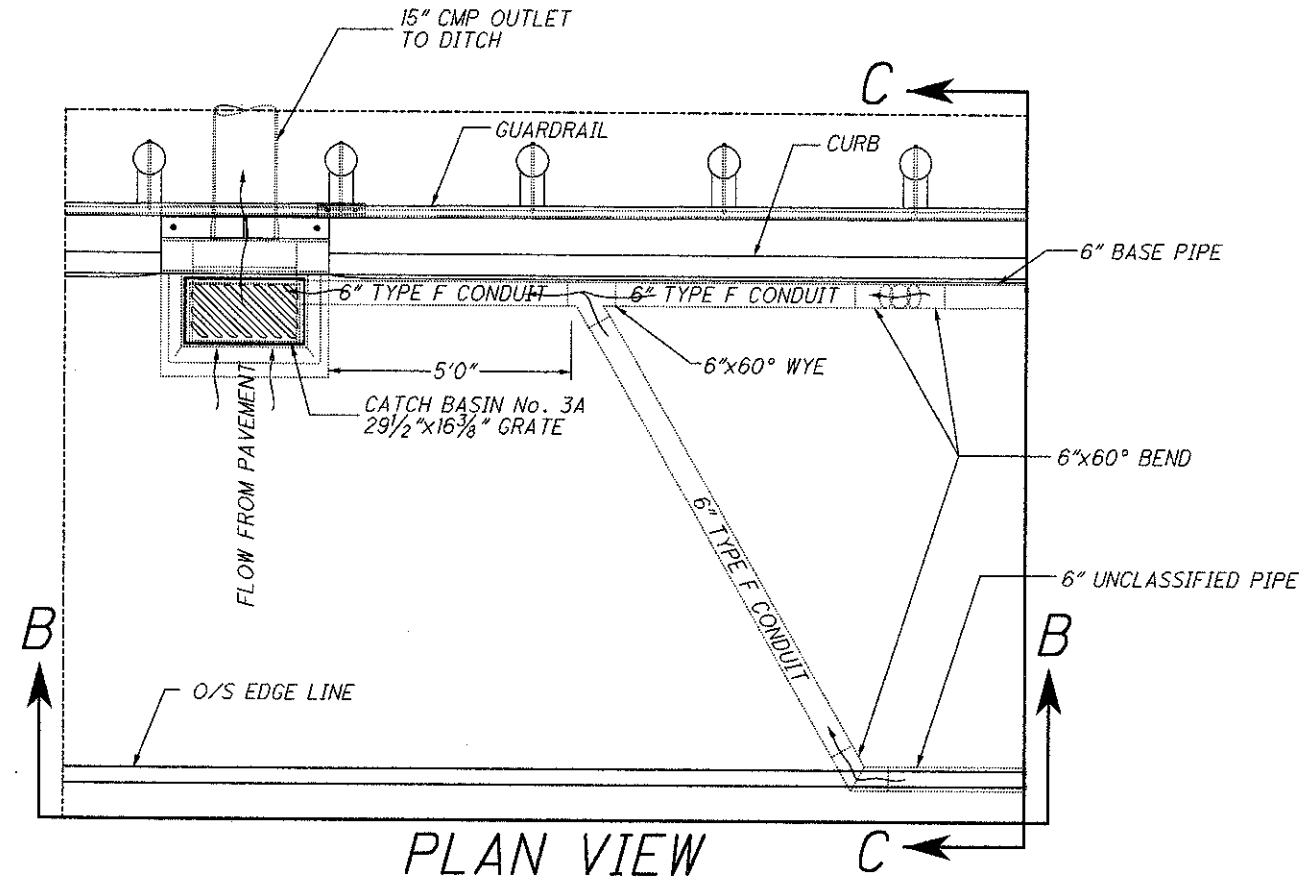


OPTIONAL CONNECTION #6:



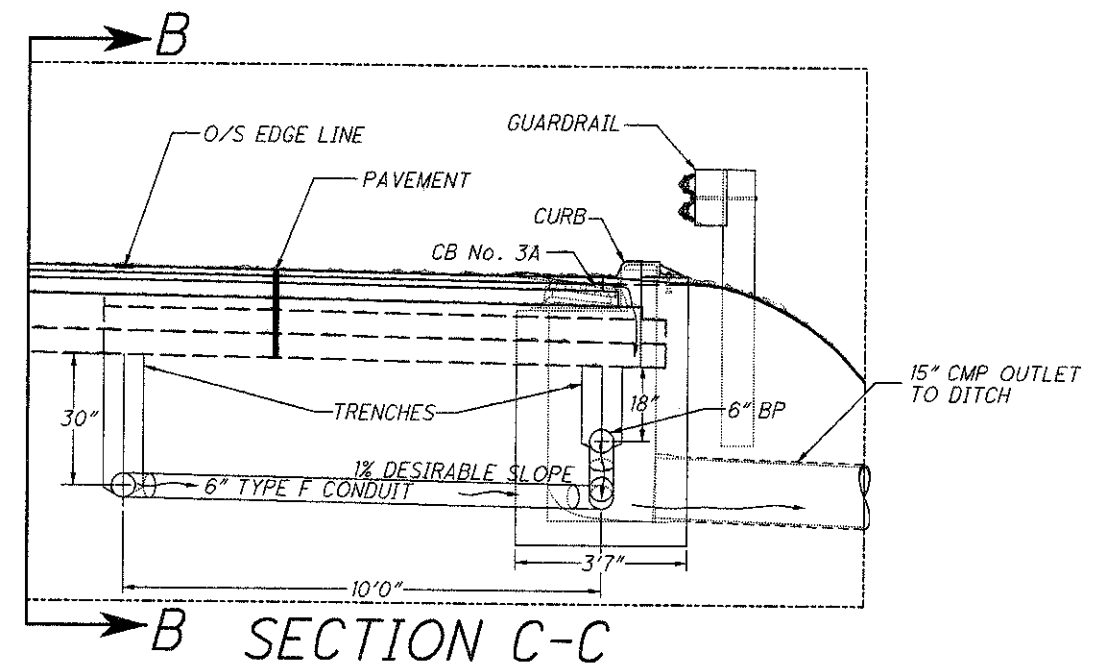
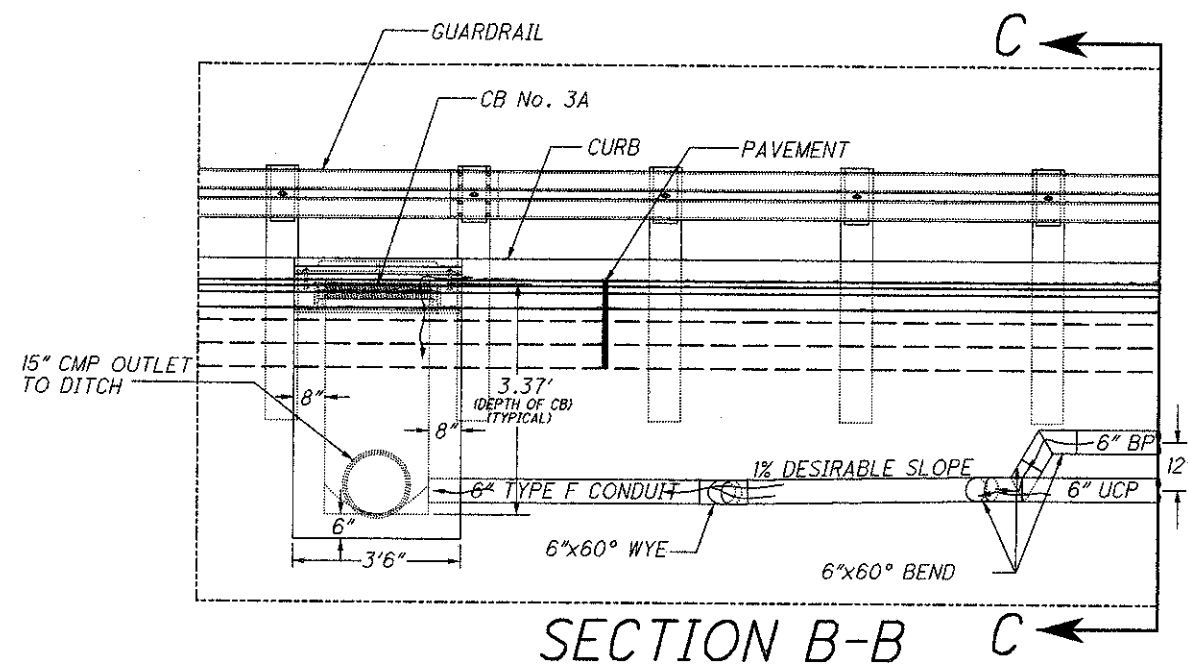
SHOWN AS OPTIONAL ON SHEET 67

PROPOSED CONNECTION FOR OUTLETING OUTSIDE  
 UNDERDRAINS INTO BRIDGE CATCH BASINS\*



NOTES

- DRAWING IN 40 SCALE, WITH 1in = 4ft
- \*ALSO OCCURS AT THESE LOCATIONS WITHIN THE PROJECT:
  - STA. 906+41 EB
  - STA. 979+51 EB
  - STA. 979+53 WB
  - STA. 1148+45 WB
  - STA. 1148+47 EB
  - STA. 1185+45 WB
  - STA. 1185+81 EB



2" ITEM 448 ASPHALT CONCRETE  
 INTERMEDIATE COURSE, TYPE 2,  
 OR ITEM 442 ASPHALT CONCRETE  
 INTERMEDIATE COURSE, 19MM,  
 TYPE A (448)

14" ITEM 301 OR  
 ITEM 302 ASPHALT  
 CONCRETE BASE

APPROX. 7" EXISTING ASPHALT CONCRETE  
 9" EXISTING REINFORCED  
 CONCRETE PAVEMENT

APPROX. 7" EXISTING ASPHALT CONCRETE  
 9" EXISTING REINFORCED  
 CONCRETE PAVEMENT

6" ITEM 304  
 AGGREGATE BASE  
 GRANULAR MATERIAL  
 PER CMS 605.02

ITEM 603 6"  
 CONDUIT, TYPE F

NOTE: THE  
 CONTRACTOR SHALL  
 NOT CUT THE TRENCH  
 AFTER THE PROPOSED  
 MAINLINE PAVING.  
 THIS TRENCH SHALL  
 BE CUT PRIOR TO THE  
 MAINLINE PAVING.  
 THE CONTRACTOR HAS  
 THE OPTION TO BORE  
 UNDER THE PAVEMENT  
 INSTEAD OF OPEN  
 CUTTING A TRENCH.

## TRENCH DETAIL SECTION A-A

## PROPOSED CONNECTION FOR OUTLETING OUTSIDE UNDERDRAINS INTO MEDIAN CATCH BASINS\*

### NOTES

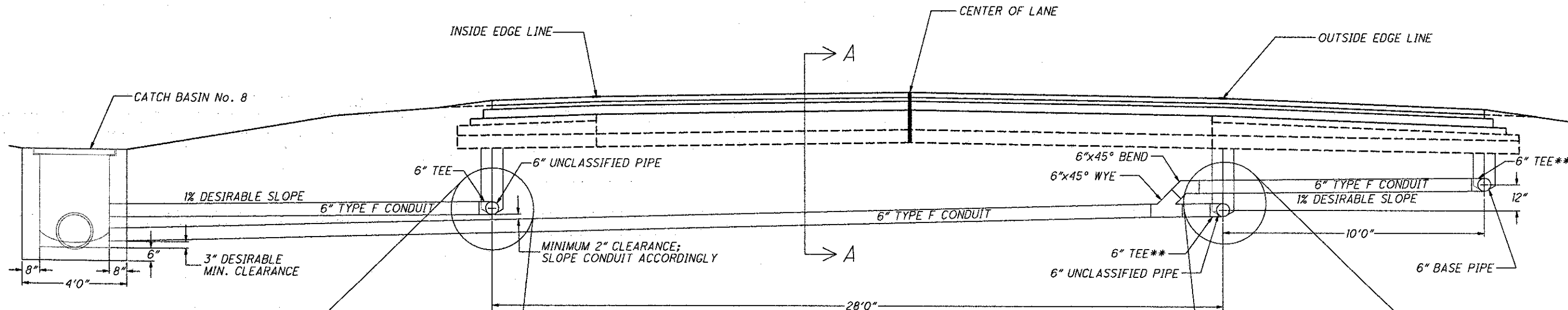
- DRAWING IN 40 SCALE, WITH 1in = 4ft,  
 EXCEPT TRENCH DETAIL.

- \*OCCURS AT THESE LOCATIONS WITHIN THE  
 PROJECT:

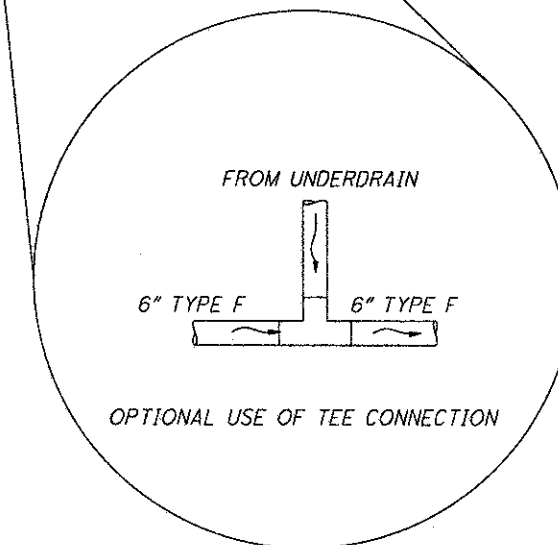
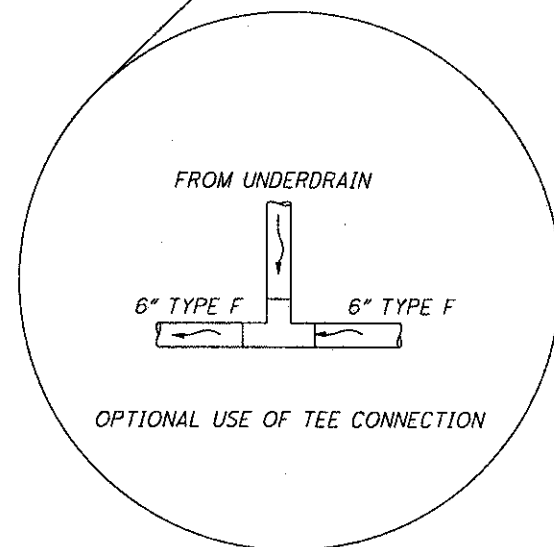
- STA. 945+77 WB
- STA. 1014+99 EB
- STA. 1023+00 EB
- STA. 1165+98 WB
- STA. 1165+98 EB
- STA. 1174+97 EB

- \*\*6"x90° BEND TO BE USED INSTEAD OF  
 TEE AT STA. 859+90 WB

- ALL COSTS TO PLACE 6" TYPE F CONDUIT  
 UNDER THE EXISTING MAINLINE WILL BE  
 INCLUDED IN ITEM 603 6" CONDUIT, TYPE F  
 INCLUDING PAVEMENT REMOVAL AND REPLACEMENT  
 AS SHOWN IN THE TRENCH DETAIL.



## CROSS SECTION VIEW



| INSIDE EDGE OF PAVEMENT -- (WESTBOUND)           |           |           |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|--------------------------------------------------|-----------|-----------|----------|-------------------|--------------------------------------|------------------------------------------------|------------------|---------------|--------------|---------------|---------------|--------|---------|----------|
| STATION LIMITS<br>LP= LOW POINT<br>HP=HIGH POINT |           |           | LOCATION | TYPE OF<br>OUTLET | 603                                  | 605                                            | BENDS & BRANCHES |               |              |               |               |        |         |          |
|                                                  |           |           |          |                   | 6" TYPE F CONDUIT,<br>NON-PERFORATED | 6" UNCLASSIFIED<br>PIPE UNDERDRAINS,<br>707.31 | 6" X 45° WYE     | 6" X 45° BEND | 6" X 60° WYE | 6" X 60° BEND | 6" X 90° BEND | 6" TEE | 6" PLUG |          |
|                                                  |           |           |          |                   |                                      |                                                |                  |               |              |               |               |        |         | LIN. FT. |
| "X" DENOTES OUTLET LOCATION                      |           |           |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
| BEGIN                                            |           | END       |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|                                                  | 852+50    | 859+95    | X        | WB                | MEDIAN CB                            | 20                                             | 745              |               | 2            |               |               |        |         | 1        |
|                                                  | 859+97    | 866+51    | X        |                   | MEDIAN CB                            | 19                                             | 654              |               |              | 1             |               |        |         |          |
|                                                  | 866+51    | 869+93    | X        |                   | MEDIAN CB                            | 12                                             | 342              |               |              | 1             |               |        |         |          |
|                                                  | 869+93    | 873+65 LP | X        |                   | MEDIAN CB                            | 16                                             | 372              |               |              |               |               |        | 1       |          |
| X                                                | 873+65 LP | 874+85    |          |                   | -                                    | -                                              | 120              | -             | -            | -             | -             | -      | -       | -        |
| X                                                | 874+85    | 878+65    |          |                   | MEDIAN CB                            | 19                                             | 380              |               |              | 1             |               |        |         |          |
| BRIDGE                                           |           |           |          |                   | -                                    | -                                              | -                | -             | -            | -             | -             | -      | -       | -        |
|                                                  | 880+37    | 886+90    | X        |                   | MEDIAN CB                            | 19                                             | 553              |               |              |               | 1             |        |         |          |
| X                                                | 886+90    | 896+09    |          |                   | MEDIAN CB                            | 19                                             | 919              |               |              |               | 1             |        |         |          |
| X                                                | 896+09    | 903+46    |          |                   | MEDIAN CB                            | 19                                             | 737              |               |              | 1             |               |        |         |          |
| BRIDGE                                           |           |           |          |                   | -                                    | -                                              | -                | -             | -            | -             | -             | -      | -       | -        |
| X                                                | 906+48    | 909+08    |          |                   | MEDIAN CB                            | 19                                             | 260              |               |              | 1             |               |        |         |          |
| X                                                | 909+08    | 911+00 HP |          |                   | MEDIAN CB                            | 19                                             | 192              |               |              | 1             |               |        |         |          |
|                                                  | 911+00 HP | 917+92    | X        |                   | MEDIAN CB                            | 19                                             | 692              |               |              |               | 1             |        |         |          |
| X                                                | 918+10    | 921+09    |          |                   | MEDIAN CB                            | 19                                             | 299              |               |              |               | 1             |        |         |          |
| X                                                | 921+09    | 924+59    |          |                   | MEDIAN CB                            | 19                                             | 350              |               |              | 1             |               |        |         |          |
| X                                                | 924+59    | 930+57    |          |                   | MEDIAN CB                            | 19                                             | 598              |               |              | 1             |               |        |         |          |
| X                                                | 930+59    | 938+07    |          |                   | MEDIAN CB                            | 20                                             | 648              |               | 2            |               |               |        |         | 1        |
| X                                                | 938+07    | 945+86    |          |                   | MEDIAN CB                            | 19                                             | 779              |               |              | 1             |               |        |         |          |
| X                                                | 945+86    | 953+16 HP |          |                   | MEDIAN CB                            | 19                                             | 730              |               |              | 1             |               |        |         |          |
|                                                  | 953+16 HP | 959+92    | X        |                   | MEDIAN CB                            | 20                                             | 676              |               | 2            |               |               |        |         | 1        |
|                                                  | 959+94    | 966+92    | X        |                   | MEDIAN CB                            | 20                                             | 698              |               | 2            |               |               |        |         | 1        |
|                                                  | 966+94    | 973+90    | X        |                   | MEDIAN CB                            | 19                                             | 696              |               |              | 1             |               |        |         |          |
|                                                  | 973+90    | 976+84    | X        |                   | MAN HOLE                             | 19                                             | 294              |               |              |               | 1             |        |         |          |
| X                                                | 976+84    | 977+74    |          |                   | MAN HOLE                             | 19                                             | 90               |               |              |               | 1             |        |         |          |
| BRIDGE                                           |           |           |          |                   | -                                    | -                                              | -                | -             | -            | -             | -             | -      | -       | -        |
| X                                                | 979+45    | 986+93    |          |                   | MEDIAN CB                            | 19                                             | 748              |               |              | 1             |               |        |         |          |
| X                                                | 986+93    | 990+56    |          |                   | MEDIAN CB                            | 19                                             | 363              |               |              | 1             |               |        |         |          |
| X                                                | 990+56    | 999+09    |          |                   | MEDIAN CB                            | 19                                             | 853              |               |              | 1             |               |        |         |          |
| X                                                | 999+09    | 1007+08   |          |                   | MEDIAN CB                            | 19                                             | 799              |               |              | 1             |               |        |         |          |
| X                                                | 1007+08   | 1015+08   |          |                   | MEDIAN CB                            | 19                                             | 800              |               |              | 1             |               |        |         |          |
| X                                                | 1015+08   | 1023+09   |          |                   | MEDIAN CB                            | 19                                             | 801              |               |              | 1             |               |        |         |          |
| X                                                | 1023+09   | 1033+40   |          |                   | MEDIAN CB                            | 19                                             | 1031             |               |              | 1             |               |        |         |          |
| X                                                | 1033+40   | 1042+09   |          |                   | MEDIAN CB                            | 19                                             | 869              |               |              | 1             |               |        |         |          |
| X                                                | 1042+09   | 1050+21   |          |                   | MEDIAN CB                            | 19                                             | 812              |               |              | 1             |               |        |         |          |
| X                                                | 1050+21   | 1055+98   |          |                   | MEDIAN CB                            | 19                                             | 577              |               |              | 1             |               |        |         |          |
| X                                                | 1055+98   | 1060+08   |          | ↓                 | MEDIAN CB                            | 19                                             | 410              |               |              | 1             |               |        |         |          |
| SUBTOTALS THIS COLUMN                            |           |           |          |                   |                                      | 621                                            | 19887            | 0             | 8            | 22            | 6             | 0      | 1       | 4        |

| INSIDE EDGE OF PAVEMENT -- (WESTBOUND) |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|----------------------------------------|------------|------------|----------|-------------------|--------------------------------------|------------------------------------------------|------------------|---------------|--------------|---------------|---------------|--------|---------|----------|
| STATION LIMITS                         |            |            | LOCATION | TYPE OF<br>OUTLET | 603                                  | 605                                            | BENDS & BRANCHES |               |              |               |               |        |         |          |
|                                        |            |            |          |                   | 6" TYPE F CONDUIT,<br>NON-PERFORATED | 6" UNCLASSIFIED<br>PIPE UNDERDRAINS,<br>707.31 | 6" X 45° WYE     | 6" X 45° BEND | 6" X 60° WYE | 6" X 60° BEND | 6" X 90° BEND | 6" TEE | 6" PLUG |          |
|                                        |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         | LIN. FT. |
| "X" DENOTES OUTLET LOCATION            |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
| BEGIN                                  |            | END        |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
| X                                      | 1060+08    | 1068+00 HP |          | WB                | MEDIAN CB                            | 19                                             | 792              |               |              | 1             |               |        |         |          |
|                                        | 1068+00 HP | 1074+90    | X        |                   | MEDIAN CB                            | 19                                             | 690              |               |              | 1             |               |        |         |          |
|                                        | 1074+90    | 1077+89    | X        |                   | MEDIAN CB                            | 19                                             | 299              |               |              |               | 1             |        |         |          |
| X                                      | 1078+07    | 1081+08    |          |                   | MEDIAN CB                            | 19                                             | 301              |               |              |               | 1             |        |         |          |
| X                                      | 1081+08    | 1087+07    |          |                   | MEDIAN CB                            | 19                                             | 599              |               |              | 1             |               |        |         |          |
| X                                      | 1087+07    | 1094+00 HP |          |                   | MEDIAN CB                            | 19                                             | 693              |               |              | 1             |               |        |         |          |
|                                        | 1094+00 HP | 1099+90    | X        |                   | MEDIAN CB                            | 19                                             | 590              |               |              | 1             |               |        |         |          |
|                                        | 1099+90    | 1108+90    | X        |                   | MEDIAN CB                            | 19                                             | 900              |               |              | 1             |               |        |         |          |
|                                        | 1108+90    | 1116+89    | X        |                   | MEDIAN CB                            | 19                                             | 799              |               |              | 1             |               |        |         |          |
|                                        | 1116+89    | 1124+89    | X        |                   | MEDIAN CB                            | 19                                             | 800              |               |              | 1             |               |        |         |          |
|                                        | 1124+89    | 1132+88    | X        |                   | MEDIAN CB                            | 19                                             | 799              |               |              | 1             |               |        |         |          |
|                                        | 1132+88    | 1140+88    | X        |                   | MEDIAN CB                            | 19                                             | 800              |               |              | 1             |               |        |         |          |
|                                        | 1140+88    | 1148+38    | X        |                   | MEDIAN CB                            | 19                                             | 750              |               |              | 1             |               |        |         |          |
| BRIDGE                                 |            |            |          |                   | -                                    | -                                              | -                | -             | -            | -             | -             | -      | -       | -        |
|                                        | 1150+31    | 1157+90    | X        |                   | MEDIAN CB                            | 20                                             | 759              |               | 2            |               |               |        |         | 1        |
|                                        | 1157+92    | 1165+90    | X        |                   | MEDIAN CB                            | 20                                             | 798              |               | 2            |               |               |        |         | 1        |
|                                        | 1165+92    | 1174+97 LP | X        |                   | MEDIAN CB                            | 16                                             | 905              |               |              |               |               | 1      |         |          |
| X                                      | 1174+97 LP | 1184+02    |          |                   | -                                    | -                                              | 905              | -             | -            | -             | -             | -      | -       | -        |
| BRIDGE                                 |            |            |          |                   | -                                    | -                                              | -                | -             | -            | -             | -             | -      | -       | -        |
| X                                      | 1185+61    | 1190+04    |          |                   | BRIDGE CB                            | 6                                              | 443              |               |              |               | 1             |        |         |          |
| X                                      | 1190+06    | 1200+06    |          |                   | MEDIAN CB                            | 20                                             | 1000             |               | 2            |               |               |        |         | 1        |
| X                                      | 1200+06    | 1205+04    |          |                   | MEDIAN CB                            | 19                                             | 498              |               |              | 1             |               |        |         |          |
| X                                      | 1205+06    | 1213+04    |          |                   | MEDIAN CB                            | 20                                             | 798              |               | 2            |               |               |        |         | 1        |
| X                                      | 1213+06    | 1221+07    |          |                   | MEDIAN CB                            | 20                                             | 801              |               | 2            |               |               |        |         | 1        |
| X                                      | 1221+07    | 1222+00    |          | ▼                 | MEDIAN CB                            | 19                                             | 93               |               |              | 1             |               |        |         |          |
|                                        |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|                                        |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|                                        |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|                                        |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|                                        |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|                                        |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|                                        |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|                                        |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|                                        |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
|                                        |            |            |          |                   |                                      |                                                |                  |               |              |               |               |        |         |          |
| SUBTOTALS THIS COLUMN                  |            |            |          |                   |                                      | 407                                            | 15812            | 0             | 10           | 13            | 3             | 0      | 1       | 5        |
| TOTALS THIS PAGE                       |            |            |          |                   |                                      | 1028                                           | 35699            | 0             | 18           | 35            | 9             | 0      | 2       | 9        |

| OUTSIDE EDGE OF PAVEMENT -- (WESTBOUND)         |           |           |   |          |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |
|-------------------------------------------------|-----------|-----------|---|----------|-------------------|--------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------|------------------------------------|------------------|---------------|--------------|---------------|---------------|--------|
| STATION LIMITS                                  |           |           |   | LOCATION | TYPE OF<br>OUTLET | 603                                  | 605                                            | 605                                            | SPECIAL                               | 601                                | BENDS & BRANCHES |               |              |               |               |        |
|                                                 |           |           |   |          |                   | 6" TYPE F CONDUIT,<br>NON-PERFORATED | 6" UNCLASSIFIED<br>PIPE UNDERDRAINS,<br>707.31 | 6" BASE PIPE<br>UNDERDRAIN, 707.31<br>18" DEEP | PRECAST REINFORCED<br>CONCRETE OUTLET | TIED CONCRETE<br>BLOCK MAT, TYPE 1 | 6" X 45° WYE     | 6" X 45° BEND | 6" X 60° WYE | 6" X 60° BEND | 6" X 90° BEND | 6" TEE |
|                                                 |           |           |   |          |                   | LIN. FT.                             | LIN. FT.                                       | LIN. FT.                                       | EACH                                  | SQ. YD.                            | EACH             | EACH          | EACH         | EACH          | EACH          | EACH   |
| "X" DENOTES OUTLET LOCATION                     |           |           |   |          |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |
| BEGIN                                           | END       |           |   |          |                   | EDGE LINE                            |                                                | OUTSIDE OF SHOULDER                            |                                       |                                    |                  |               |              |               |               |        |
|                                                 |           |           |   |          |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |
|                                                 | 852+50    | 860+03    | X |          | WB                | 852+50                               | 860+03                                         | X                                              | MEDIAN CB                             | 56                                 | 753              | 753           | -            | -             | 1             | 1      |
|                                                 | 864+20    | 868+25    | X |          |                   | 864+20                               | 868+25                                         | X                                              | ON SLOPE                              | 28                                 | 405              | 405           | 1            | 1.80          | 1             | 1      |
|                                                 | 868+25    | 873+65 LP | X |          |                   | 868+25                               | 873+65 LP                                      | X                                              | ON SLOPE                              | 28                                 | 540              | 540           | 1            | 1.80          | 1             | 1      |
| X                                               | 873+65 LP | 878+41    |   |          |                   | X                                    | 873+65 LP                                      | 878+41                                         | -                                     | -                                  | 476              | 476           | -            | -             | -             | -      |
| BRIDGE                                          |           |           |   |          |                   | BRIDGE                               |                                                |                                                |                                       | -                                  | -                | -             | -            | -             | -             | -      |
|                                                 | 880+15    | 886+99 LP | X |          |                   |                                      | 880+15                                         | 886+99 LP                                      | X                                     | ON SLOPE                           | 28               | 684           | 684          | 1             | 1.80          | 1      |
| X                                               | 886+99 LP | 895+00    |   |          |                   | X                                    | 886+99 LP                                      | 895+00                                         | -                                     | -                                  | 801              | 801           | -            | -             | -             | -      |
| X                                               | 895+00    | 903+44    |   |          |                   | X                                    | 895+00                                         | 903+44                                         | ON SLOPE                              | 28                                 | 844              | 844           | 1            | 1.80          | 1             | 1      |
| BRIDGE                                          |           |           |   |          |                   | BRIDGE                               |                                                |                                                |                                       | -                                  | -                | -             | -            | -             | -             | -      |
| X                                               | 906+40    | 911+00 HP |   |          |                   | X                                    | 906+40                                         | 911+00 HP                                      | ON SLOPE                              | 28                                 | 460              | 460           | 1            | 1.80          | 1             | 1      |
|                                                 | 911+00 HP | 918+01 LP | X |          |                   |                                      | 911+00 HP                                      | 918+01 LP                                      | ON SLOPE                              | 28                                 | 701              | 701           | 1            | 1.80          | 1             | 1      |
| X                                               | 918+01 LP | 921+81    |   |          |                   | X                                    | 918+01 LP                                      | 924+50                                         | -                                     | -                                  | 380              | 649           | -            | -             | -             | -      |
|                                                 | -         | -         |   |          |                   | X                                    | 924+50                                         | 930+00                                         | ON SLOPE                              | 18                                 | -                | 550           | 1            | 1.80          |               |        |
|                                                 | -         | -         |   |          |                   | X                                    | 930+00                                         | 935+70                                         | ON SLOPE                              | 28                                 | -                | 570           | 1            | 1.80          |               |        |
|                                                 | -         | -         |   |          |                   |                                      | 7+68 RAMP "A" (SR 3)                           |                                                |                                       |                                    |                  |               |              |               |               |        |
| X                                               | 936+60    | 945+77    |   |          |                   | X                                    | 936+62                                         | 945+77                                         | OUTSIDE CB                            | 27                                 | 917              | 915           | -            | -             |               |        |
| X                                               | 945+77    | 950+75    |   |          |                   | X                                    | 945+77                                         | 950+75                                         | MEDIAN CB                             | 56                                 | 498              | 498           | -            | -             | 1             | 1      |
|                                                 | 958+31    | 962+00    | X |          |                   |                                      | 953+19                                         | 962+00                                         | ON SLOPE                              | 38                                 | 369              | 681           | 1            | 1.80          | 1             | 1      |
|                                                 | 962+00    | 970+00    | X |          |                   |                                      | 0+98 RAMP "B" (SR 3)                           |                                                | X                                     |                                    |                  |               |              |               |               |        |
|                                                 | 970+00    | 976+75 LP | X |          |                   |                                      | 962+00                                         | 970+00                                         | ON SLOPE                              | 28                                 | 800              | 800           | 1            | 1.80          | 1             | 1      |
| X                                               | 976+75 LP | 977+80    |   |          |                   |                                      | 970+00                                         | 976+75 LP                                      | ON SLOPE                              | 35                                 | 675              | 675           | 1            | 1.80          | 1             | 1      |
| BRIDGE                                          |           |           |   |          |                   | X                                    | 976+75 LP                                      | 977+80                                         | -                                     | -                                  | 105              | 105           | -            | -             | -             | -      |
|                                                 | 979+64    | 986+00    |   |          |                   |                                      | -                                              | -                                              | -                                     | -                                  | -                | -             | -            | -             | -             | -      |
| X                                               | 986+00    | 991+00    |   |          |                   |                                      | BRIDGE CB                                      |                                                |                                       | 22                                 | 636              | 647           | -            | -             |               |        |
| X                                               | 991+00    | 995+40    |   |          |                   | X                                    | 979+53                                         | 986+00                                         | ON SLOPE                              | 31                                 | 500              | 500           | 1            | 1.80          | 1             | 1      |
| X                                               | 995+40    | 1000+00   |   |          |                   | X                                    | 986+00                                         | 991+00                                         | ON SLOPE                              | 28                                 | 440              | 440           | 1            | 1.80          | 1             | 1      |
| X                                               | 1000+00   | 1005+00   |   |          |                   | X                                    | 991+00                                         | 995+40                                         | ON SLOPE                              | 28                                 | 460              | 460           | 1            | 1.80          | 1             | 1      |
| X                                               | 1005+00   | 1010+00   |   |          |                   | X                                    | 995+40                                         | 1000+00                                        | ON SLOPE                              | 28                                 | 500              | 500           | 1            | 1.80          | 1             | 1      |
| X                                               | 1010+00   | 1015+00   |   |          |                   | X                                    | 1000+00                                        | 1005+00                                        | ON SLOPE                              | 28                                 | 500              | 500           | 1            | 1.80          | 1             | 1      |
| X                                               | 1015+00   | 1020+00   |   |          |                   | X                                    | 1005+00                                        | 1010+00                                        | ON SLOPE                              | 31                                 | 500              | 500           | 1            | 1.80          | 1             | 1      |
| X                                               | 1020+00   | 1025+00   |   |          |                   | X                                    | 1010+00                                        | 1015+00                                        | ON SLOPE                              | 33                                 | 500              | 500           | 1            | 1.80          | 1             | 1      |
| X                                               | 1025+00   | 1030+02   |   |          |                   | X                                    | 1015+00                                        | 1020+00                                        | ON SLOPE                              | 28                                 | 500              | 500           | 1            | 1.80          | 1             | 1      |
| X                                               | 1030+02   | 1035+00   |   |          |                   | X                                    | 1020+00                                        | 1025+00                                        | ON SLOPE                              | 28                                 | 500              | 500           | 1            | 1.80          | 1             | 1      |
| X                                               | 1035+00   | 1040+02   |   |          |                   | X                                    | 1025+00                                        | 1030+02                                        | ON SLOPE                              | 28                                 | 502              | 502           | 1            | 1.80          | 1             | 1      |
| X                                               | 1040+02   | 1046+00   |   |          |                   | X                                    | 1030+02                                        | 1035+00                                        | ON SLOPE                              | 28                                 | 498              | 498           | 1            | 1.80          | 1             | 1      |
|                                                 |           |           |   |          |                   | X                                    | 1035+00                                        | 1040+02                                        | ON SLOPE                              | 31                                 | 502              | 502           | 1            | 1.80          | 1             | 1      |
|                                                 |           |           |   |          |                   | X                                    | 1040+02                                        | 1046+00                                        | ON SLOPE                              | 31                                 | 598              | 598           | 1            | 1.80          | 1             | 1      |
| TOTALS THIS PAGE                                |           |           |   |          |                   |                                      |                                                |                                                |                                       | 829                                | 16044            | 17754         | 23           | 41.40         | 23            | 23     |
|                                                 |           |           |   |          |                   |                                      |                                                |                                                |                                       |                                    |                  |               | 1            | 5             | 4             | 45     |
| I:\projects\77475\roadway\sheets\77475DS001.xls |           |           |   |          |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |

CALC BY:  
AMH  
CHKD BY:  
MJS

UNDERDRAIN QUANTITIES

MED - 76 - 0.61

| OUTSIDE EDGE OF PAVEMENT -- (WESTBOUND)         |            |            |                     |          |                        |                                   |                                          |                                          |                                    |                                 |                  |               |              |               |               |        | CALC BY: AMH<br>CHK'D BY: MUS |    |
|-------------------------------------------------|------------|------------|---------------------|----------|------------------------|-----------------------------------|------------------------------------------|------------------------------------------|------------------------------------|---------------------------------|------------------|---------------|--------------|---------------|---------------|--------|-------------------------------|----|
| STATION LIMITS                                  |            |            |                     | LOCATION | TYPE OF OUTLET         | 603                               | 605                                      | 605                                      | SPECIAL                            | 601                             | BENDS & BRANCHES |               |              |               |               |        |                               |    |
|                                                 |            |            |                     |          |                        | 6" TYPE F CONDUIT, NON-PERFORATED | 6" UNCLASSIFIED PIPE UNDERDRAINS, 707.31 | 6" BASE PIPE UNDERDRAIN, 707.31 18" DEEP | PRECAST REINFORCED CONCRETE OUTLET | TIED CONCRETE BLOCK MAT, TYPE 1 | 6" X 45° WYE     | 6" X 45° BEND | 6" X 60° WYE | 6" X 60° BEND | 6" X 90° BEND | 6" TEE |                               |    |
| "X" DENOTES OUTLET LOCATION                     |            |            |                     |          |                        | LIN. FT.                          | LIN. FT.                                 | LIN. FT.                                 | EACH                               | SQ. YD.                         | EACH             | EACH          | EACH         | EACH          | EACH          | EACH   |                               |    |
| BEGIN                                           | END        |            | BEGIN               | END      |                        |                                   |                                          |                                          |                                    |                                 |                  |               |              |               |               |        |                               |    |
| EDGE LINE                                       |            |            | OUTSIDE OF SHOULDER |          |                        |                                   |                                          |                                          |                                    |                                 |                  |               |              |               |               |        |                               |    |
| X                                               | 1046+00    | 1050+02    | X                   | 1046+00  | 1050+02                | WB                                | ON SLOPE                                 | 28                                       | 402                                | 502                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
| X                                               | 1050+02    | 1055+89    | X                   | 1050+02  | 1055+89                |                                   | ON SLOPE                                 | 57                                       | 587                                | 587                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
| X                                               | 1055+89    | 1060+00    | X                   | 1055+89  | 1060+00                |                                   | MEDIAN CB                                | 56                                       | 411                                | 411                             | -                | -             | 1            | 1             |               | 2      |                               |    |
| X                                               | 1060+00    | 1068+00 HP | X                   | 1060+00  | 1068+00 HP             |                                   | ON SLOPE                                 | 36                                       | 800                                | 800                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
|                                                 | 1068+00 HP | 1073+00    | X                   |          | 1068+00 HP             | 1073+00                           | ON SLOPE                                 | 28                                       | 500                                | 500                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
|                                                 | 1073+00    | 1077+98 LP | X                   |          | 1073+00                | 1077+98 LP                        | ON SLOPE                                 | 29                                       | 498                                | 498                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
| X                                               | 1077+98 LP | 1083+00    | X                   |          | 1077+98 LP             | 1083+00                           | -                                        | -                                        | 502                                | 502                             | -                | -             | -            | -             | -             | -      |                               |    |
| X                                               | 1083+00    | 1088+00    |                     | X        | 1083+00                | 1088+00                           | ON SLOPE                                 | 28                                       | 500                                | 500                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
| X                                               | 1088+00    | 1092+00    |                     | X        | 1088+00                | 1094+00 HP                        | ON SLOPE                                 | 28                                       | 400                                | 600                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
|                                                 | -          | -          |                     |          | 1094+00 HP             | 1100+00                           | ON SLOPE                                 | 36                                       | -                                  | 600                             | 1                | 1.80          |              |               |               | 1      |                               |    |
|                                                 | -          | -          |                     |          | 1100+00                | 1104+02                           | ON SLOPE                                 | 43                                       | -                                  | 402                             | 1                | 1.80          |              |               |               | 1      |                               |    |
|                                                 | 1108+40    | 1111+75    | X                   |          | WEIGH STATION RAMP "C" | X                                 |                                          |                                          |                                    |                                 |                  |               |              |               |               |        |                               |    |
|                                                 | 1111+75    | 1116+98    | X                   |          | 1108+40                | 1116+98                           | ON SLOPE                                 | 50                                       | 858                                | 858                             | -                | -             | 1            | 1             |               | 2      |                               |    |
|                                                 | 1116+98    | 1122+23    | X                   |          | 1116+98                | 1122+25                           | OUTSIDE CB                               | 30                                       | 525                                | 527                             | -                | -             |              |               | 2             | 1      |                               |    |
|                                                 | 1130+16    | 1133+00    | X                   |          | 1124+95                | 1133+00                           | ON SLOPE                                 | 28                                       | 284                                | 805                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
|                                                 | 1133+00    | 1141+25    | X                   |          | WEIGH STATION RAMP "D" | X                                 |                                          |                                          |                                    |                                 |                  |               |              |               |               |        |                               |    |
|                                                 | 1141+25    | 1148+34    | X                   |          | 1133+00                | 1141+25                           | ON SLOPE                                 | 28                                       | 825                                | 825                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
|                                                 | BRIDGE     |            |                     |          | 1141+25                | 1148+45                           | BRIDGE CB                                | 22                                       | 709                                | 720                             | -                | -             |              |               | 1             | 3      |                               |    |
|                                                 | 1150+28    | 1155+00    | X                   |          | BRIDGE                 |                                   | -                                        | -                                        | -                                  | -                               | -                | -             | -            | -             | -             | -      |                               |    |
|                                                 | 1155+00    | 1160+00    | X                   |          | 1150+28                | 1155+00                           | ON SLOPE                                 | 26                                       | 472                                | 472                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
|                                                 | 1160+00    | 1165+98    | X                   |          | 1155+00                | 1160+00                           | ON SLOPE                                 | 26                                       | 500                                | 500                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
|                                                 | 1165+98    | 1174+97 LP | X                   |          | 1160+00                | 1165+98                           | MEDIAN CB                                | 56                                       | 598                                | 598                             | -                | -             | 1            | 1             |               | 2      |                               |    |
| X                                               | 1174+97 LP | 1180+25    |                     |          | 1165+98                | 1174+97 LP                        | MEDIAN CB                                | 56                                       | 899                                | 899                             | -                | -             | 1            | 1             |               | 2      |                               |    |
| X                                               | 1180+25    | 1183+87    |                     |          | X                      | 1174+97 LP                        | -                                        | -                                        | 528                                | 528                             | -                | -             | -            | -             | -             | -      |                               |    |
|                                                 | BRIDGE     |            |                     |          | X                      | 1180+25                           | ON SLOPE                                 | 27                                       | 362                                | 362                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
|                                                 | 1185+56    | 1191+00    |                     |          | BRIDGE                 |                                   | -                                        | -                                        | -                                  | -                               | -                | -             | -            | -             | -             | -      |                               |    |
| X                                               | 1191+00    | 1196+00    |                     |          | X                      | 1185+45                           | BRIDGE CB                                | 22                                       | 444                                | 555                             | -                | -             |              |               | 1             | 3      |                               |    |
| X                                               | 1196+00    | 1201+00    |                     |          | X                      | 1191+00                           | ON SLOPE                                 | 28                                       | 500                                | 500                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
| X                                               | 1201+00    | 1209+27    |                     |          | X                      | 1196+00                           | ON SLOPE                                 | 28                                       | 500                                | 500                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
|                                                 | -          | -          |                     |          | X                      | 1201+00                           | ON SLOPE                                 | 28                                       | 827                                | 500                             | 1                | 1.80          | 1            | 1             |               | 2      |                               |    |
|                                                 | 1219+65    | 1222+00    |                     |          | X                      | 1206+00                           | ON SLOPE                                 | 23                                       | -                                  | 870                             | 1                | 1.80          |              |               |               | 1      |                               |    |
|                                                 |            |            |                     |          | 13+11 RAMP "B" (SR 57) |                                   |                                          |                                          |                                    |                                 |                  |               |              |               |               |        |                               |    |
|                                                 |            |            |                     |          | X                      | 1219+67                           | OUTSIDE CB                               | 32                                       | 235                                | 233                             | -                | -             |              |               | 2             | 1      |                               |    |
| TOTALS THIS PAGE                                |            |            |                     |          |                        |                                   |                                          | 879                                      | 13666                              | 16154                           | 18               | 32.40         | 19           | 19            | 2             | 10     | 0                             | 43 |
| I:\projects\77475\roadway\sheets\77475DS001.xls |            |            |                     |          |                        |                                   |                                          |                                          |                                    |                                 |                  |               |              |               |               |        | 70<br>138                     |    |
| UNDERDRAIN QUANTITIES                           |            |            |                     |          |                        |                                   |                                          |                                          |                                    |                                 |                  |               |              |               |               |        | MED - 76 - 0.61               |    |

CALC BY:  
AMH  
CHK'D BY:  
MJS

UNDERDRAIN QUANTITIES

MED - 76 - 0.61

| INSIDE EDGE OF PAVEMENT -- (EASTBOUND) |           |          |                |                                   |                                          |                  |               |              |               |               |        |         |     |
|----------------------------------------|-----------|----------|----------------|-----------------------------------|------------------------------------------|------------------|---------------|--------------|---------------|---------------|--------|---------|-----|
| STATION LIMITS                         |           | LOCATION | TYPE OF OUTLET | 603                               | 605                                      | BENDS & BRANCHES |               |              |               |               |        |         | EA. |
|                                        |           |          |                | 6" TYPE F CONDUIT, NON-PERFORATED | 6" UNCLASSIFIED PIPE UNDERDRAINS, 707.31 | 6" X 45° WYE     | 6" X 45° BEND | 6" X 60° WYE | 6" X 60° BEND | 6" X 90° BEND | 6" TEE | 6" PLUG |     |
|                                        |           |          |                | LIN. FT.                          | LIN. FT.                                 | EA.              | EA.           | EA.          | EA.           | EA.           | EA.    | EA.     |     |
| "X" DENOTES OUTLET LOCATION            |           |          |                |                                   |                                          |                  |               |              |               |               |        |         |     |
| BEGIN                                  | END       |          |                |                                   |                                          |                  |               |              |               |               |        |         |     |
| 852+50                                 | 859+95    | X        | EB             | MEDIAN CB                         | 20                                       | 745              |               | 2            |               |               |        |         | 1   |
| 859+97                                 | 866+52    | X        |                | MEDIAN CB                         | 20                                       | 655              |               | 2            |               |               |        |         | 1   |
| 866+54                                 | 869+94    | X        |                | MEDIAN CB                         | 11                                       | 340              |               |              | 1             |               |        |         |     |
| 869+94                                 | 873+56    | X        |                | MEDIAN CB                         | 19                                       | 362              |               |              |               | 1             |        |         |     |
| X 873+71                               | 874+85    |          |                | MEDIAN CB                         | 19                                       | 111              |               |              |               | 1             |        |         |     |
| X 874+85                               | 878+76    |          |                | MEDIAN CB                         | 19                                       | 391              |               |              | 1             |               |        |         |     |
| BRIDGE                                 |           |          |                | -                                 | -                                        | -                | -             | -            | -             | -             | -      | -       | -   |
| 880+50                                 | 886+99 LP | X        |                | MEDIAN CB                         | 16                                       | 649              |               |              |               |               | 1      |         |     |
| X 886+99 LP                            | 896+09    |          |                | -                                 | -                                        | 910              | -             | -            | -             | -             | -      | -       | -   |
| X 896+09                               | 903+47    |          |                | MEDIAN CB                         | 19                                       | 738              |               |              | 1             |               |        |         |     |
| BRIDGE                                 |           |          |                | -                                 | -                                        | -                | -             | -            | -             | -             | -      | -       | -   |
| X 906+48                               | 909+05    |          |                | MEDIAN CB                         | 19                                       | 257              |               |              | 1             |               |        |         |     |
| X 909+07                               | 911+00 HP |          |                | MEDIAN CB                         | 20                                       | 193              |               | 2            |               |               |        |         | 1   |
| 911+00 HP                              | 918+01 LP | X        |                | MEDIAN CB                         | 19                                       | 701              |               |              | 1             |               |        |         |     |
| X 918+01 LP                            | 921+09    |          |                | -                                 | -                                        | 308              | -             | -            | -             | -             | -      | -       | -   |
| X 921+09                               | 924+59    |          |                | MEDIAN CB                         | 19                                       | 350              |               |              | 1             |               |        |         |     |
| X 924+59                               | 930+60    |          |                | MEDIAN CB                         | 19                                       | 601              |               |              | 1             |               |        |         |     |
| X 930+60                               | 938+04    |          |                | MEDIAN CB                         | 19                                       | 744              |               |              | 1             |               |        |         |     |
| X 938+06                               | 945+86    |          |                | MEDIAN CB                         | 20                                       | 780              |               | 2            |               |               |        |         | 1   |
| X 945+86                               | 953+16 HP |          |                | MEDIAN CB                         | 19                                       | 730              |               |              | 1             |               |        |         |     |
| 953+16 HP                              | 959+91    | X        |                | MEDIAN CB                         | 19                                       | 675              |               |              | 1             |               |        |         |     |
| 959+91                                 | 966+92    | X        |                | MEDIAN CB                         | 20                                       | 701              |               | 2            |               |               |        |         | 1   |
| 966+94                                 | 973+90    | X        |                | MEDIAN CB                         | 19                                       | 696              |               |              | 1             |               |        |         |     |
| 973+90                                 | 976+66    | X        |                | MAN HOLE                          | 19                                       | 276              |               |              |               | 1             |        |         |     |
| X 976+84                               | 977+73    |          |                | MAN HOLE                          | 19                                       | 89               |               |              |               | 1             |        |         |     |
| BRIDGE                                 |           |          |                | -                                 | -                                        | -                | -             | -            | -             | -             | -      | -       | -   |
| X 979+45                               | 986+93    |          |                | MEDIAN CB                         | 19                                       | 748              |               |              | 1             |               |        |         |     |
| X 986+93                               | 990+56    |          |                | MEDIAN CB                         | 19                                       | 363              |               |              | 1             |               |        |         |     |
| X 990+56                               | 999+06    |          |                | MEDIAN CB                         | 19                                       | 850              |               |              | 1             |               |        |         |     |
| X 999+08                               | 1007+08   |          |                | MEDIAN CB                         | 20                                       | 800              |               | 2            |               |               |        |         | 1   |
| X 1007+08                              | 1015+08   |          |                | MEDIAN CB                         | 19                                       | 800              |               |              | 1             |               |        |         |     |
| X 1015+08                              | 1023+09   |          |                | MEDIAN CB                         | 19                                       | 801              |               |              | 1             |               |        |         |     |
| X 1023+09                              | 1033+40   |          |                | MEDIAN CB                         | 19                                       | 1031             |               |              | 1             |               |        |         |     |
| X 1033+40                              | 1042+09   |          |                | MEDIAN CB                         | 19                                       | 869              |               |              | 1             |               |        |         |     |
| X 1042+09                              | 1050+21   |          |                | MEDIAN CB                         | 19                                       | 812              |               |              | 1             |               |        |         |     |
| X 1050+21                              | 1055+95   |          |                | MEDIAN CB                         | 19                                       | 574              |               |              | 1             |               |        |         |     |
| X 1055+97                              | 1060+08   |          | ▼              | MEDIAN CB                         | 20                                       | 411              |               |              |               |               |        |         |     |
| SUBTOTALS THIS COLUMN                  |           |          |                |                                   | 604                                      | 20061            | 0             | 14           | 20            | 4             | 0      | 1       | 7   |

| INSIDE EDGE OF PAVEMENT -- (EASTBOUND) |            |          |                |                                   |                                          |                  |               |              |               |               |        |         |     |
|----------------------------------------|------------|----------|----------------|-----------------------------------|------------------------------------------|------------------|---------------|--------------|---------------|---------------|--------|---------|-----|
| STATION LIMITS                         |            | LOCATION | TYPE OF OUTLET | 603                               | 605                                      | BENDS & BRANCHES |               |              |               |               |        |         | EA. |
|                                        |            |          |                | 6" TYPE F CONDUIT, NON-PERFORATED | 6" UNCLASSIFIED PIPE UNDERDRAINS, 707.31 | 6" X 45° WYE     | 6" X 45° BEND | 6" X 60° WYE | 6" X 60° BEND | 6" X 90° BEND | 6" TEE | 6" PLUG |     |
|                                        |            |          |                | LIN. FT.                          | LIN. FT.                                 | EA.              | EA.           | EA.          | EA.           | EA.           | EA.    | EA.     |     |
| "X" DENOTES OUTLET LOCATION            |            |          |                |                                   |                                          |                  |               |              |               |               |        |         |     |
| BEGIN                                  | END        |          |                |                                   |                                          |                  |               |              |               |               |        |         |     |
| X 1060+08                              | 1068+00 HP |          | EB             | MEDIAN CB                         | 19                                       | 792              |               |              | 1             |               |        |         |     |
| 1068+00 HP                             | 1074+90    | X        |                | MEDIAN CB                         | 19                                       | 690              |               |              | 1             |               |        |         |     |
| 1074+90                                | 1077+98 LP | X        |                | MEDIAN CB                         | 19                                       | 308              |               |              | 1             |               |        |         |     |
| X 1077+98 LP                           | 1081+08    |          |                | -                                 | -                                        | 310              | -             | -            | -             | -             | -      | -       | -   |
| X 1081+08                              | 1087+07    |          |                | MEDIAN CB                         | 19                                       | 599              |               |              | 1             |               |        |         |     |
| X 1087+07                              | 1094+00 HP |          |                | MEDIAN CB                         | 19                                       | 693              |               |              | 1             |               |        |         |     |
| 1094+00 HP                             | 1099+90    | X        |                | MEDIAN CB                         | 19                                       | 590              |               |              | 1             |               |        |         |     |
| 1099+90                                | 1108+91    | X        |                | MEDIAN CB                         | 20                                       | 901              |               |              | 2             |               |        |         | 1   |
| 1108+93                                | 1116+90    | X        |                | MEDIAN CB                         | 20                                       | 797              |               |              | 2             |               |        |         | 1   |
| 1116+92                                | 1124+90    | X        |                | MEDIAN CB                         | 20                                       | 798              |               |              | 2             |               |        |         | 1   |
| 1124+92                                | 1132+89    | X        |                | MEDIAN CB                         | 20                                       | 797              |               |              | 2             |               |        |         | 1   |
| 1132+91                                | 1140+89    | X        |                | MEDIAN CB                         | 20                                       | 798              |               |              | 2             |               |        |         | 1   |
| 1140+91                                | 1148+38    | X        |                | MEDIAN CB                         | 19                                       | 748              |               |              |               | 1             |        |         |     |
| BRIDGE                                 |            |          |                | -                                 | -                                        | -                | -             | -            | -             | -             | -      | -       | -   |
| 1150+32                                | 1157+89    | X        |                | MEDIAN CB                         | 19                                       | 757              |               |              | 1             |               |        |         |     |
| 1157+89                                | 1165+89    | X        |                | MEDIAN CB                         | 19                                       | 800              |               |              | 1             |               |        |         |     |
| 1165+89                                | 1174+97 LP | X        |                | MEDIAN CB                         | 16                                       | 908              |               |              |               |               | 1      |         |     |
| X 1174+97 LP                           | 1184+09    |          |                | -                                 | -                                        | 912              | -             | -            | -             | -             | -      | -       | -   |
| BRIDGE                                 |            |          |                | -                                 | -                                        | -                | -             | -            | -             | -             | -      | -       | -   |
| X 1185+71                              | 1190+07    |          |                | BRIDGE CB                         | 8                                        | 436              |               |              |               | 1             |        |         |     |
| X 1190+07                              | 1200+03    |          |                | MEDIAN CB                         | 19                                       | 996              |               |              | 1             |               |        |         |     |
| X 1200+05                              | 1205+07    |          |                | MEDIAN CB                         | 20                                       | 502              |               |              | 2             |               |        |         | 1   |
| X 1205+07                              | 1213+07    |          |                | MEDIAN CB                         | 19                                       | 800              |               |              |               | 1             |        |         |     |
| X 1213+07                              | 1221+04    |          |                | MEDIAN CB                         | 19                                       | 797              |               |              |               | 1             |        |         |     |
| X 1221+06                              | 1222+00    |          | ▼              | MEDIAN CB                         | 20                                       | 94               |               |              | 2             |               |        |         | 1   |
| SUBTOTALS THIS COLUMN                  |            |          |                |                                   | 392                                      | 15823            | 0             | 14           | 12            | 1             | 0      | 1       | 7   |
| TOTALS THIS PAGE                       |            |          |                |                                   | 996                                      | 35884            | 0             | 28           | 32            | 5             | 0      | 2       | 14  |

CALC BY:  
AMH  
CHK'D BY:  
MJS

UNDERDRAIN QUANTITIES

MED - 76 - 0.61

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138

| OUTSIDE EDGE OF PAVEMENT -- (EASTBOUND)         |           |             |           |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |
|-------------------------------------------------|-----------|-------------|-----------|---------------------|-------------------|--------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------|------------------------------------|------------------|---------------|--------------|---------------|---------------|--------|
| STATION LIMITS                                  |           |             |           | LOCATION            | TYPE OF<br>OUTLET | 603                                  | 605                                            | 605                                            | SPECIAL                               | 601                                | BENDS & BRANCHES |               |              |               |               |        |
|                                                 |           |             |           |                     |                   | 6" TYPE F CONDUIT,<br>NON-PERFORATED | 6" UNCLASSIFIED<br>PIPE UNDERDRAINS,<br>707.31 | 6" BASE PIPE<br>UNDERDRAIN, 707.31<br>18" DEEP | PRECAST REINFORCED<br>CONCRETE OUTLET | TIED CONCRETE<br>BLOCK MAT, TYPE 1 | 6" X 45° WYE     | 6" X 45° BEND | 6" X 60° WYE | 6" X 60° BEND | 6" X 90° BEND | 6" TEE |
| "X" DENOTES OUTLET LOCATION                     |           |             |           |                     |                   | LIN. FT.                             | LIN. FT.                                       | LIN. FT.                                       | EACH                                  | SQ. YD.                            | EACH             | EACH          | EACH         | EACH          | EACH          | EACH   |
| BEGIN                                           | END       | BEGIN       | END       |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |
| EDGE LINE                                       |           |             |           | OUTSIDE OF SHOULDER |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |
| 852+50                                          | 879+00    | 852+50      | 879+00    | EB                  |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |
| NO UNDERDRAIN WORK                              |           |             |           |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |
| BRIDGE                                          |           |             |           |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |
| 880+67                                          | 886+99 LP | 880+67      | 886+99 LP | X                   | ON SLOPE          | 25                                   | 632                                            | 632                                            | 1                                     | 1.80                               | 1                | 1             | -            | -             | -             | 2      |
| X 886+99 LP                                     | 895+50    | X 886+99 LP | 895+50    |                     | -                 | -                                    | 851                                            | 851                                            | -                                     | -                                  | -                | -             | -            | -             | -             | -      |
| X 895+50                                        | 903+48    | X 895+50    | 903+48    |                     | ON SLOPE          | 30                                   | 798                                            | 798                                            | 1                                     | 1.80                               | 1                | 1             | -            | -             | -             | 2      |
| BRIDGE                                          |           |             |           |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |
| X 906+52                                        | 911+00 HP | X 906+41    | 911+00 HP |                     | BRIDGE CB         | 22                                   | 459                                            | 448                                            | -                                     | -                                  | -                | -             | 1            | 3             | -             | -      |
|                                                 | 911+00 HP |             | 918+01 LP | X                   | ON SLOPE          | 27                                   | 701                                            | 701                                            | 1                                     | 1.80                               | 1                | 1             | -            | -             | -             | 2      |
| X 918+01 LP                                     | 925+00    | X 918+01 LP | 925+00    |                     | -                 | -                                    | 699                                            | 699                                            | -                                     | -                                  | -                | -             | -            | -             | -             | -      |
| X 925+00                                        | 927+64    | X 925+00    | 930+00    |                     | ON SLOPE          | 27                                   | 500                                            | 264                                            | 1                                     | 1.80                               | 1                | 1             | -            | -             | -             | 2      |
|                                                 | -         | X 930+00    | 936+70    |                     | ON SLOPE          | 25                                   | 670                                            | -                                              | 1                                     | 1.80                               |                  |               |              |               |               | 1      |
| X 936+84                                        | 945+05    | X 936+86    | 945+05    |                     | OUTSIDE CB        | 26                                   | 819                                            | 821                                            | -                                     | -                                  |                  |               |              | 2             |               | 1      |
| X 945+05                                        | 950+00    | X 945+05    | 949+22    |                     | ON SLOPE          | 56                                   | 417                                            | 495                                            | 1                                     | 1.80                               |                  |               |              |               |               |        |
|                                                 | 956+76    |             | 959+90    | X                   | ON SLOPE          | 34                                   | 986                                            | 314                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
|                                                 | 959+90    |             | 965+00    | X                   | ON SLOPE          | 34                                   | 510                                            | 510                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
|                                                 | 965+00    |             | 970+00    | X                   | ON SLOPE          | 28                                   | 500                                            | 500                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
|                                                 | 970+00    |             | 976+75 LP | X                   | ON SLOPE          | 28                                   | 675                                            | 675                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
| X 976+75 LP                                     | 977+70    | X 976+75 LP | 977+70    |                     | -                 | -                                    | 95                                             | 95                                             | -                                     | -                                  | -                | -             | -            | -             | -             | -      |
| BRIDGE                                          |           |             |           |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |
| X 979+62                                        | 985+50    | X 979+51    | 985+50    |                     | BRIDGE CB         | 22                                   | 599                                            | 588                                            | -                                     | -                                  |                  |               | 1            | 3             |               | 2      |
| X 985+50                                        | 994+00    | X 985+50    | 994+00    |                     | ON SLOPE          | 35                                   | 850                                            | 850                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
| X 994+00                                        | 1000+00   | X 994+00    | 1000+00   |                     | ON SLOPE          | 28                                   | 600                                            | 600                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
| X 1000+00                                       | 1005+00   | X 1000+00   | 1005+00   |                     | ON SLOPE          | 28                                   | 500                                            | 500                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
| X 1005+00                                       | 1014+99   | X 1005+00   | 1014+99   |                     | ON SLOPE          | 28                                   | 999                                            | 999                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
| X 1014+99                                       | 1023+00   | X 1014+99   | 1023+00   |                     | MEDIAN CB         | 56                                   | 801                                            | 801                                            | -                                     | -                                  | 1                | 1             |              |               |               | 2      |
| X 1023+00                                       | 1030+02   | X 1023+00   | 1030+02   |                     | MEDIAN CB         | 56                                   | 702                                            | 702                                            | -                                     | -                                  | 1                | 1             |              |               |               | 2      |
| X 1030+02                                       | 1035+00   | X 1030+02   | 1035+00   |                     | ON SLOPE          | 36                                   | 498                                            | 498                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
| X 1035+00                                       | 1040+02   | X 1035+00   | 1040+02   |                     | ON SLOPE          | 28                                   | 502                                            | 502                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
| X 1040+02                                       | 1045+00   | X 1040+02   | 1045+00   |                     | ON SLOPE          | 28                                   | 498                                            | 498                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
| X 1045+00                                       | 1050+02   | X 1045+00   | 1050+02   |                     | ON SLOPE          | 28                                   | 502                                            | 502                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
| X 1050+02                                       | 1055+00   | X 1050+02   | 1055+00   |                     | ON SLOPE          | 34                                   | 498                                            | 498                                            | 1                                     | 1.80                               | 1                | 1             |              |               |               | 2      |
| TOTALS THIS PAGE                                |           |             |           |                     |                   | 769                                  | 16861                                          | 15341                                          | 19                                    | 34.20                              | 19               | 19            | 2            | 8             | 0             | 42     |
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CALC BY:  
AMH

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UNDERDRAIN QUANTITIES

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| OUTSIDE EDGE OF PAVEMENT -- (EASTBOUND) |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|-----------------------------------------|------------|------------|---|---------------------|-------------------|--------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------|------------------------------------|------------------|---------------|--------------|---------------|---------------|--------|----------|
| STATION LIMITS                          |            |            |   | LOCATION            | TYPE OF<br>OUTLET | 603                                  | 605                                            | 605                                            | SPECIAL                               | 601                                | BENDS & BRANCHES |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   | 6" TYPE F CONDUIT,<br>NON-PERFORATED | 6" UNCLASSIFIED<br>PIPE UNDERDRAINS,<br>707.31 | 6" BASE PIPE<br>UNDERDRAIN, 707.31<br>18" DEEP | PRECAST REINFORCED<br>CONCRETE OUTLET | TIED CONCRETE<br>BLOCK MAT, TYPE 1 | 6" X 45° WYE     | 6" X 45° BEND | 6" X 60° WYE | 6" X 60° BEND | 6" X 90° BEND | 6" TEE |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        | LIN. FT. |
| "X" DENOTES OUTLET LOCATION             |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
| BEGIN                                   |            | END        |   | BEGIN               |                   | END                                  |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
| EDGE LINE                               |            |            |   | OUTSIDE OF SHOULDER |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
| X                                       | 1055+00    | 1061+23    |   | X                   | 1055+00           | 1061+23                              |                                                | EB                                             | ON SLOPE                              | 43                                 | 623              | 623           | 1            | 1.80          | 1             | 1      | 2        |
| X                                       | 1061+23    | 1068+00 HP |   | X                   | 1061+23           | 1068+00 HP                           |                                                |                                                | OUTSIDE CB                            | 24                                 | 677              | 677           | -            | -             | 1             | 1      | 2        |
|                                         | 1068+00 HP | 1073+00    | X |                     | 1068+00 HP        | 1073+00                              | X                                              |                                                | ON SLOPE                              | 47                                 | 500              | 500           | 1            | 1.80          | 1             | 1      | 2        |
|                                         | 1073+00    | 1077+98 LP | X |                     | 1073+00           | 1077+98 LP                           | X                                              |                                                | ON SLOPE                              | 43                                 | 498              | 498           | 1            | 1.80          | 1             | 1      | 2        |
| X                                       | 1077+98 LP | 1085+00    |   | X                   | 1077+98 LP        | 1085+00                              |                                                |                                                | -                                     | -                                  | 702              | 702           | -            | -             | -             | -      | -        |
| X                                       | 1085+00    | 1094+00 HP |   | X                   | 1085+00           | 1094+00 HP                           |                                                |                                                | ON SLOPE                              | 28                                 | 900              | 900           | 1            | 1.80          | 1             | 1      | 2        |
|                                         | 1094+00 HP | 1100+00    | X |                     | 1094+00 HP        | 1100+00                              | X                                              |                                                | ON SLOPE                              | 58                                 | 600              | 600           | 1            | 1.80          | 1             | 1      | 2        |
|                                         | 1100+00    | 1107+00    | X |                     | 1100+00           | 1107+00                              | X                                              |                                                | ON SLOPE                              | 38                                 | 700              | 700           | 1            | 1.80          | 1             | 1      | 2        |
|                                         | 1107+00    | 1113+96    | X |                     | 1107+00           | 1113+96                              | X                                              |                                                | OUTSIDE CB                            | 45                                 | 696              | 696           | -            | -             | 1             | 1      | 2        |
|                                         | 1113+96    | 1123+00    | X |                     | 1113+96           | 1123+00                              | X                                              |                                                | ON SLOPE                              | 50                                 | 904              | 904           | 1            | 1.80          | 1             | 1      | 2        |
|                                         | 1123+00    | 1130+00    | X |                     | 1123+00           | 1130+00                              | X                                              |                                                | ON SLOPE                              | 33                                 | 700              | 700           | 1            | 1.80          | 1             | 1      | 2        |
|                                         | 1130+00    | 1138+60    | X |                     | 1130+00           | 1138+60                              | X                                              |                                                | ON SLOPE                              | 28                                 | 860              | 860           | 1            | 1.80          | 1             | 1      | 2        |
|                                         | 1138+60    | 1143+60    | X |                     | 1138+60           | 1143+60                              | X                                              |                                                | ON SLOPE                              | 28                                 | 500              | 500           | 1            | 1.80          | 1             | 1      | 2        |
|                                         | 1143+60    | 1148+36    | X |                     | 1143+60           | 1148+47                              | X                                              |                                                | BRIDGE CB                             | 22                                 | 487              | 476           | -            | -             |               | 1      | 3        |
| BRIDGE                                  |            |            |   | BRIDGE              |                   |                                      |                                                |                                                | -                                     | -                                  | -                | -             | -            | -             | -             | -      | -        |
|                                         | 1150+30    | 1156+60    | X |                     | 1150+30           | 1156+60                              | X                                              |                                                | ON SLOPE                              | 28                                 | 630              | 630           | 1            | 1.80          | 1             | 1      | 2        |
|                                         | 1156+60    | 1162+80    | X |                     | 1156+60           | 1162+80                              | X                                              |                                                | ON SLOPE                              | 28                                 | 620              | 620           | 1            | 1.80          | 1             | 1      | 2        |
|                                         | 1162+80    | 1165+98    | X |                     | 1162+80           | 1165+98                              | X                                              |                                                | MEDIAN CB                             | 56                                 | 618              | 618           | -            | -             | 1             | 1      | 2        |
|                                         | 1165+98    | 1174+97 LP | X |                     | 1165+98           | 1174+97 LP                           | X                                              |                                                | MEDIAN CB                             | 56                                 | 899              | 899           | -            | -             | 1             | 1      | 2        |
| X                                       | 1174+97 LP | 1180+02    |   | X                   | 1174+97 LP        | 1180+02                              |                                                |                                                | -                                     | -                                  | 505              | 505           | -            | -             | -             | -      | -        |
| X                                       | 1180+02    | 1184+22    |   | X                   | 1180+02           | 1184+22                              |                                                |                                                | ON SLOPE                              | 24                                 | 420              | 420           | 1            | 1.80          | 1             | 1      | 2        |
| BRIDGE                                  |            |            |   | BRIDGE              |                   |                                      |                                                |                                                | -                                     | -                                  | -                | -             | -            | -             | -             | -      | -        |
| X                                       | 1185+92    | 1190+02    |   | X                   | 1185+81           | 1190+02                              |                                                |                                                | BRIDGE CB                             | 22                                 | 421              | 410           | -            | -             |               | 1      | 3        |
| X                                       | 1190+02    | 1195+00    |   | X                   | 1190+02           | 1195+00                              |                                                |                                                | ON SLOPE                              | 28                                 | 498              | 498           | 1            | 1.80          | 1             | 1      | 2        |
| X                                       | 1195+00    | 1200+05    |   | X                   | 1195+00           | 1200+05                              |                                                |                                                | ON SLOPE                              | 28                                 | 505              | 505           | 1            | 1.80          | 1             | 1      | 2        |
| X                                       | 1200+05    | 1209+00    |   | X                   | 1200+05           | 1209+00                              |                                                |                                                | ON SLOPE                              | 28                                 | 895              | 895           | 1            | 1.80          | 1             | 1      | 2        |
| X                                       | 1209+00    | 1215+50    |   | X                   | 1209+00           | 1215+50                              |                                                |                                                | ON SLOPE                              | 28                                 | 650              | 650           | 1            | 1.80          | 1             | 1      | 2        |
| X                                       | 1215+50    | 1222+00    |   | X                   | 1215+50           | 1222+00                              |                                                | ▼                                              | ON SLOPE                              | 24                                 | 650              | 650           | 1            | 1.80          | 1             | 1      | 2        |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |
|                                         |            |            |   |                     |                   |                                      |                                                |                                                |                                       |                                    |                  |               |              |               |               |        |          |

| RAMPS                       |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
|-----------------------------|------------|------------|------|------------------|-------------------|--------------------------------------|------------------------------------------------|-----|---------------------------------------|------------------------------------|------------------|---------------|--------------|---------------|---------------|--------|
| STATION LIMITS              |            |            |      | LOCATION         | TYPE OF<br>OUTLET | 603                                  | 605                                            |     | SPECIAL                               | 601                                | BENDS & BRANCHES |               |              |               |               |        |
|                             |            |            |      |                  |                   | 6" TYPE F CONDUIT,<br>NON-PERFORATED | 6" UNCLASSIFIED<br>PIPE UNDERDRAINS,<br>707.31 |     | PRECAST REINFORCED<br>CONCRETE OUTLET | TIED CONCRETE<br>BLOCK MAT, TYPE 1 | 6" X 45° WYE     | 6" X 45° BEND | 6" X 60° WYE | 6" X 60° BEND | 6" X 90° BEND | 6" TEE |
|                             |            |            |      |                  |                   | LIN. FT.                             | LIN. FT.                                       |     | EACH                                  | SQ. YD.                            | EACH             | EACH          | EACH         | EACH          | EACH          | EACH   |
| "X" DENOTES OUTLET LOCATION |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
| "#" DENOTES TIE-IN          |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
| BEGIN                       | END        |            | SIDE |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
| SR 3 RAMPS                  |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
| RAMP "A"                    |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
| X                           | 7+68       | 1+00       |      | OUTSIDE SHOULDER | WB                | ON SLOPE                             | 20                                             | 668 | -                                     | 1                                  | 1.80             |               |              |               | 1             |        |
| X                           | 6+90       | 1+00       |      | INSIDE SHOULDER  | WB                | CATCH BASIN                          | 45                                             | 590 | -                                     | -                                  | -                |               | 2            |               |               |        |
| RAMP "B"                    |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
| X                           | 0+98       | 10+50      |      | OUTSIDE SHOULDER | WB                | ON SLOPE                             | 20                                             | 952 | -                                     | 1                                  | 1.80             |               |              |               | 1             |        |
| X                           | 3+50       | 10+50      |      | INSIDE SHOULDER  | WB                | ON SLOPE                             | 20                                             | 700 | -                                     | 1                                  | 1.80             |               |              | 1             |               |        |
| RAMP "C"                    |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
|                             | 0+50       | 5+50       | X    | OUTSIDE SHOULDER | EB                | ON SLOPE                             | 35                                             | 500 | -                                     | 1                                  | 1.80             |               |              | 1             |               |        |
|                             | 0+50       | 5+50       | X    | INSIDE SHOULDER  | EB                | IN GORE AREA                         | 15                                             | 500 | -                                     | 1                                  | 1.80             |               |              | 1             |               |        |
| RAMP "D"                    |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
| X                           | 4+00       | 10+25      |      | OUTSIDE SHOULDER | EB                | ON SLOPE                             | 18                                             | 625 | -                                     | 1                                  | 1.80             |               |              |               | 1             |        |
| X                           | 4+00       | 10+25      |      | INSIDE SHOULDER  | EB                | CATCH BASIN                          | 25                                             | 625 | -                                     | -                                  | -                |               | 2            |               |               |        |
| WEIGH STATION RAMPS         |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
| RAMP "C"                    |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
|                             | 1104+02    | 1111+25 LP | X    | OUTSIDE SHOULDER | WB                | ON SLOPE                             | 20                                             | 723 | -                                     | 1                                  | 1.80             |               |              |               | 1             |        |
| X                           | 1111+25 LP | 1113+25    |      | OUTSIDE SHOULDER | WB                | -                                    | -                                              | 200 | -                                     | -                                  | -                | -             | -            | -             | -             |        |
|                             | 1108+40    | 1111+25 LP | X    | INSIDE SHOULDER  | WB                | ON SLOPE                             | 20                                             | 285 | -                                     | 1                                  | 1.80             |               |              |               | 1             |        |
| X                           | 1111+25 LP | 1115+00    |      | INSIDE SHOULDER  | WB                | -                                    | -                                              | 375 | -                                     | -                                  | -                | -             | -            | -             | -             |        |
| RAMP "D"                    |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
|                             | 1116+00    | 1122+30    | X    | INSIDE SHOULDER  | WB                | CATCH BASIN                          | 15                                             | 630 | -                                     | -                                  | -                |               | 2            |               |               |        |
|                             | 1118+15    | 1124+95    | X    | OUTSIDE SHOULDER | WB                | ON SLOPE                             | 20                                             | 680 | -                                     | 1                                  | 1.80             |               |              |               | 1             |        |
| SR 57 RAMPS                 |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
| RAMP "B"                    |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
|                             | 0+50       | 4+05       | X    | OUTSIDE SHOULDER | WB                | ON SLOPE                             | 14                                             | 355 | -                                     | 1                                  | 1.80             |               |              |               | 1             |        |
|                             | 4+05       | 7+00       | X    | OUTSIDE SHOULDER | WB                | ON SLOPE                             | 14                                             | 295 | -                                     | 1                                  | 1.80             |               |              |               | 1             |        |
|                             | 7+00       | 9+95       | X    | OUTSIDE SHOULDER | WB                | ON SLOPE                             | 15                                             | 295 | -                                     | 1                                  | 1.80             |               |              |               | 1             |        |
|                             | 9+95       | 13+11      | #    | OUTSIDE SHOULDER | WB                | ON SLOPE                             | 15                                             | 316 | -                                     | 1                                  | 1.80             |               |              |               | 1             |        |
| TOTALS THIS PAGE            |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
|                             |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
|                             |            |            |      |                  |                   |                                      |                                                |     |                                       |                                    |                  |               |              |               |               |        |
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CALC BY:  
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UNDERDRAIN QUANTITIES

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CONNECTING GUARDRAIL TO EXISTING RAIL

IN LOCATIONS WHERE TYPE 5 GUARDRAIL, TERMINAL ASSEMBLIES, ETC. ARE TO BE CONNECTED TO EXISTING RAIL SOME MODIFICATIONS MAY BE REQUIRED, INCLUDING EXTRA POSTS, DRILLING HOLES AND POSSIBLY PARTIAL SECTIONS OF ADDITIONAL RAIL ELEMENTS. THE COST OF THIS ADDITIONAL WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR TYPE 5 GUARDRAIL. IF ADDITIONAL PORTIONS OF RAIL ELEMENT ARE USED THE LINEAL MEASUREMENT OF THIS ADDITIONAL PORTION SHALL BE ADDED FOR PAYMENT.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN ON STANDARD CONSTRUCTION DRAWING GR-1.1. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

LOCATIONS OF GUARDRAIL

THE GUARDRAIL PROTECTION PROVIDED IN THIS PLAN SHALL BE LOCATED IN THE FIELD TO ASSURE THAT THE INSTALLATION WILL AFFORD THE MAXIMUM PROTECTION FOR TRAFFIC. THIS LOCATION SHALL BE POSITIONED AS FAR AS POSSIBLE FROM THE EDGE OF PAVEMENT WHILE MAINTAINING PROPER GRADE IN FRONT OF GUARDRAIL.

SUGGESTED SEQUENCE OF GUARDRAIL WORK

1. GUARDRAIL WORK IS TO BEGIN AFTER THE LINEAR GRADING IS COMPLETED AND THE 617 MATERIAL IS PLACED.
2. REMOVE THE GUARDRAIL.
3. REBUILD/CONSTRUCT THE GUARDRAIL RUN.
4. INSTALL BARRIER REFLECTORS.

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| LOCATION                               |         |         |         | 626               |        |         | 614               |        | 202                               | 202                                | 606                          | 606                        | 606                                 | 202                                    | SPECIAL                | 202                  | NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
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| DIRECTION                              |         | FROM    | TO      | BARRIER REFLECTOR |        |         | BARRIER REFLECTOR |        | GUARDRAIL<br>REMOVED FOR<br>REUSE | ANCHOR ASSEMBLY<br>REMOVED, TYPE T | GUARDRAIL<br>REBUILT, TYPE 5 | ANCHOR<br>ASSEMBLY, TYPE T | BRIDGE TERMINAL<br>ASSEMBLY, TYPE 1 | BRIDGE TERMINAL<br>ASSEMBLY<br>REMOVED | WORK ZONE<br>GUARDRAIL | GUARDRAIL<br>REMOVED |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
|                                        |         |         |         | TYPE A            | TYPE B | TYPE A2 | TYPE A            | TYPE B |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TYPE A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TYPE B |
|                                        |         |         |         | EACH              | EACH   | EACH    | EACH              | EACH   |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EACH   |
| MAINLINE                               |         |         |         |                   |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | OUTSIDE | 888+17  | 919+28  | 31                | 2      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | OUTSIDE | 941+70  | 943+82  | 2                 | 2      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | OUTSIDE | 969+35  | 985+30  | 16                | 1      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | OUTSIDE | 993+50  | 1003+00 | 11                |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | OUTSIDE | 1029+69 | 1031+69 | 3                 |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | OUTSIDE | 1091+63 | 1093+50 | 3                 |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | OUTSIDE | 1138+84 | 1162+67 | 24                | 1      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | OUTSIDE | 1183+18 | 1186+37 | 4                 | 1      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | OUTSIDE | 1208+15 | 1223+32 | 17                |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 876+76  | 880+13  |                   | 2      | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 901+45  | 906+09  |                   | 3      | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 941+62  | 943+93  | 1                 |        | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 975+79  | 979+23  |                   | 2      | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 983+11  | 985+05  | 1                 |        | 2       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 1029+51 | 1031+45 | 1                 |        | 2       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 1091+44 | 1093+39 | 1                 |        | 2       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 1146+40 | 1149+97 |                   | 2      | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 1182+09 | 1185+60 |                   | 2      | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| MAINLINE                               |         |         |         |                   |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 877+95  | 880+84  | 3                 | 1      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 890+31  | 895+48  | 6                 |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 907+50  | 920+75  | 14                |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 943+13  | 945+25  | 2                 | 2      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 977+35  | 981+55  | 4                 | 2      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 984+63  | 986+40  | 2                 | 1      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 996+50  | 1001+13 | 6                 |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 1029+68 | 1031+68 | 3                 |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 1077+38 | 1080+76 | 5                 |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 1092+99 | 1094+64 | 2                 | 1      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 1141+33 | 1161+03 | 20                | 1      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 1183+42 | 1186+87 | 4                 | 1      |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 879+14  | 882+39  |                   | 2      | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 903+82  | 908+44  |                   | 3      | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 943+06  | 945+37  | 1                 |        | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 978+21  | 981+62  |                   | 2      | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 984+53  | 986+47  | 1                 |        | 2       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 1030+93 | 1032+87 | 1                 |        | 2       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 1092+87 | 1094+81 | 1                 |        | 2       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 1148+84 | 1152+34 |                   | 2      | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 1184+39 | 1187+71 |                   | 2      | 3       |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| SR 57 INTERCHANGE RAMP B               |         |         |         |                   |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | OUTSIDE | 1211+14 | 0+66    | 17                |        |         |                   |        | 1575                              | 1                                  | 1575                         | 1                          |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 9+71    | 0+58    | 10                |        |         |                   |        | 900                               | 1                                  | 900                          | 1                          |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| CROSSOVER PHASE 2 (EB FLOW IN WB LANE) |         |         |         |                   |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 976+49  | 979+18  |                   |        |         | 3                 | 2      |                                   |                                    |                              |                            |                                     |                                        |                        |                      | Guardrail and barrier reflectors must be added for each crossover phase, whereas the inside westbound lane will have reverse traffic flow (i.e. eastbound flow) for Crossover Phase 2, and the inside eastbound lane will have reverse traffic flow (i.e. westbound flow) for Crossover Phase 3 (refer to the standard drawing on Adjustments for Two-Lane, Two-Way Operation on Four-lane Divided Roadways, MT-95.82).                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 976+49  | 978+23  |                   |        |         |                   |        |                                   |                                    |                              | 1                          | 1                                   | 175.0                                  | 175.0                  |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 984+03  | 984+53  |                   |        |         | 2                 |        |                                   |                                    |                              |                            |                                     | 50.0                                   | 50.0                   |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 1030+43 | 1030+93 |                   |        |         | 2                 |        |                                   |                                    |                              |                            |                                     | 50.0                                   | 50.0                   |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 1092+00 | 1092+87 |                   |        |         | 2                 |        |                                   |                                    |                              |                            |                                     |                                        | 87.5                   | 87.5                 | For mainline bridges, there shall be a typical guardrail approach installation connected to the parapet, with a guardrail taper connecting the end of the Standard Flare Arc of the work zone guardrail as close to the end of the Standard Flare Arc (i.e. the Standard Flare Arc which leads to the Impact Attenuator) of the existing guardrail, only using full panels of work zone guardrail (12.5' panels). Barrier Reflectors, Type A, shall be installed on the work zone guardrail at each end of the entire segment, as well as at the midpoint of the entire work zone guardrail segment. Barrier Reflectors, Type B, shall be installed on the parapet adjacent to the work zone guardrail, as well as at the parapet's midpoint. All reflectors are to face the direction of the reverse traffic flow. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 1147+09 | 1149+91 |                   |        |         | 3                 | 2      |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 1147+09 | 1148+43 |                   |        |         |                   |        |                                   |                                    |                              | 1                          | 1                                   | 175.0                                  | 175.0                  |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 1182+09 | 1185+26 |                   |        |         | 3                 | 2      |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| WB                                     | INSIDE  | 1182+83 | 1184+44 |                   |        |         |                   |        |                                   |                                    |                              |                            |                                     | 1                                      | 1                      | 162.5                | 162.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | For a non-mainline bridge median guardrail section, a work zone guardrail taper will connect the ends of the existing guardrail segment to a spot on the corresponding existing guardrail segment near its impact attenuator, only using full panels of work zone guardrail. Barrier Reflectors, Type A, need only be applied to each end of each entire work zone guardrail segment, facing the reverse traffic flow. At station 976+75, due to the work zone guardrail crossing a manhole, the guardrail posts must be installed so as to avoid the manhole. |        |
| CROSSOVER PHASE 3 (WB FLOW IN EB LANE) |         |         |         |                   |        |         |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 978+23  | 980+92  |                   |        |         | 3                 | 2      |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 979+18  | 980+92  |                   |        |         |                   |        |                                   |                                    |                              |                            | 1                                   | 1                                      | 175.0                  | 175.0                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 985+05  | 985+93  |                   |        |         | 2                 |        |                                   |                                    |                              |                            |                                     |                                        | 87.5                   | 87.5                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 1031+45 | 1031+95 |                   |        |         | 2                 |        |                                   |                                    |                              |                            |                                     |                                        | 50.0                   | 50.0                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 1093+39 | 1094+02 |                   |        |         | 2                 |        |                                   |                                    |                              |                            |                                     |                                        | 62.5                   | 62.5                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 1148+83 | 1151+65 |                   |        |         | 3                 | 2      |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 1149+91 | 1151+65 |                   |        |         |                   |        |                                   |                                    |                              |                            | 1                                   | 1                                      | 175.0                  | 175.0                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 1184+52 | 1186+95 |                   |        |         | 3                 | 2      |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| EB                                     | INSIDE  | 1185+34 | 1186+95 |                   |        |         |                   |        |                                   |                                    |                              |                            |                                     | 1                                      | 1                      | 162.5                | 162.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| SUBTOTALS                              |         |         |         | 217               | 38     | 48      |                   |        |                                   |                                    |                              |                            |                                     |                                        |                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |
| TOTAL CARRIED TO GENERAL SUMMARY       |         |         |         |                   | 303    |         | 30                | 12     | 2475                              | 2                                  | 2475                         | 2                          | 6                                   | 6                                      | 1412.5                 | 1412.5               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |

CALC BY: ADW  
CHKD BY: BAD

GUARDRAIL & BARRIER REFLECTOR SUB-SUMMARY

MED-76-0.61

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GUARDRAIL & BARRIER REFLECTOR SUB-SUMMARY

MED-76-0.61

CALC  
BY: ADW  
CHKD  
BY: BAD

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| MAINLINE & INTERCHANGES           |           |          |          |            | 644                 |                      |           |                    |                      |                       | 644 AUXILIARY MARKINGS (740.04) |                   |           |                |                             |                            | SPECIAL       | 614   |      |                        |                                              |      |                                              |    |                                                      | CALC BY:<br>ADW<br>CHK'D<br>BY: BAD |     |                                              |  |
|-----------------------------------|-----------|----------|----------|------------|---------------------|----------------------|-----------|--------------------|----------------------|-----------------------|---------------------------------|-------------------|-----------|----------------|-----------------------------|----------------------------|---------------|-------|------|------------------------|----------------------------------------------|------|----------------------------------------------|----|------------------------------------------------------|-------------------------------------|-----|----------------------------------------------|--|
|                                   |           | FROM     | TO       | LANE WIDTH | YELLOW<br>EDGE LINE |                      | LANE LINE | WHITE EDGE<br>LINE |                      | YELLOW<br>CENTER LINE |                                 | CHANNELIZING LINE | STOP LINE | CROSSWALK LINE | TRANSVERSE/DIAGONAL<br>LINE | RAILROAD SYMBOL<br>MARKING | LANE<br>ARROW |       |      | AIR SPEED ZONE MARKING | WORK ZONE LANE LINE,<br>CLASS III, 642 PAINT |      | WORK ZONE EDGE LINE,<br>CLASS III, 642 PAINT |    | WORK ZONE CHANNELIZING<br>LINE, CLASS III, 642 PAINT |                                     |     | WORK ZONE STOP LINE,<br>CLASS III, 642 PAINT |  |
|                                   |           |          |          |            | HIGHWAY MILES       | TOTAL (PAY QUANTITY) |           | HIGHWAY MILES      | TOTAL (PAY QUANTITY) | HIGHWAY MILES         | TOTAL (PAY QUANTITY)            |                   |           |                |                             |                            | LEFT          | RIGHT | THRU |                        |                                              |      |                                              |    |                                                      |                                     |     |                                              |  |
|                                   |           |          |          | FT         | MILE                | MILE                 | MILE      | MILE               | MILE                 | MILE                  | MILE                            | FT                | FT        | FT             | FT                          | FT                         | EACH          | EACH  | EACH | MILE                   |                                              | MILE |                                              | FT |                                                      | FT                                  |     |                                              |  |
| EB                                | ML        | 852+50   | 927+64   | 12         | 1.42                | 1.42                 | 1.42      | 1.42               | 1.42                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 1.42                                         |      | 2.84                                         |    |                                                      |                                     |     |                                              |  |
| EB                                | ML        | 927+64   | 936+04   | 12         | 0.16                | 0.16                 | 0.16      |                    |                      |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 0.16                                         |      | 0.16                                         |    |                                                      |                                     |     |                                              |  |
| EB                                | ML        | 936+04   | 949+22   | 12         | 0.25                | 0.25                 | 0.25      | 0.25               | 0.25                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 0.25                                         |      | 0.50                                         |    |                                                      |                                     |     |                                              |  |
| EB                                | ML        | 949+22   | 962+04   | 12         | 0.24                | 0.24                 | 0.24      |                    |                      |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 0.24                                         |      | 0.24                                         |    |                                                      |                                     |     |                                              |  |
| EB                                | ML        | 962+04   | 1222+50  | 12         | 4.93                | 4.93                 | 4.93      | 4.93               | 4.93                 |                       |                                 |                   |           |                |                             |                            |               | 1     |      |                        | 4.93                                         |      | 9.86                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ML        | 852+50   | 921+81   | 12         | 1.31                | 1.31                 | 1.31      | 1.31               | 1.31                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 1.31                                         |      | 2.62                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ML        | 921+81   | 934+78   | 12         | 0.25                | 0.25                 | 0.25      |                    |                      |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 0.25                                         |      | 0.25                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ML        | 934+78   | 950+90   | 12         | 0.31                | 0.31                 | 0.31      | 0.31               | 0.31                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 0.31                                         |      | 0.62                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ML        | 950+90   | 959+31   | 12         | 0.16                | 0.16                 | 0.16      |                    |                      |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 0.16                                         |      | 0.16                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ML        | 959+31   | 1092+00  | 12         | 2.51                | 2.51                 | 2.51      | 2.51               | 2.51                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 2.51                                         |      | 5.02                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ML        | 1092+00  | 1108+40  | 12         | 0.31                | 0.31                 | 0.31      |                    |                      |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 0.31                                         |      | 0.31                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ML        | 1108+40  | 1123+14  | 12         | 0.28                | 0.28                 | 0.28      | 0.28               | 0.28                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 0.28                                         |      | 0.56                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ML        | 1123+14  | 1131+16  | 12         | 0.15                | 0.15                 | 0.15      |                    |                      |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 0.15                                         |      | 0.15                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ML        | 1131+16  | 1203+84  | 12         | 1.38                | 1.38                 | 1.38      | 1.38               | 1.38                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 1.38                                         |      | 2.76                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ML        | 1203+84  | 1217+55  | 12         | 0.26                | 0.26                 | 0.26      |                    |                      |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 0.26                                         |      | 0.26                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ML        | 1217+55  | 1222+50  | 12         | 0.09                | 0.09                 | 0.09      | 0.09               | 0.09                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        | 0.09                                         |      | 0.18                                         |    |                                                      |                                     |     |                                              |  |
| IR-71                             |           |          |          |            |                     |                      |           |                    |                      |                       |                                 |                   |           |                |                             |                            |               |       |      |                        |                                              |      |                                              |    |                                                      |                                     |     |                                              |  |
| EB                                | ACCEL N-E | 853+00   | 868+75   | VAR        |                     |                      | 0.09      |                    |                      |                       |                                 | 325               |           |                |                             |                            |               |       |      |                        | 0.09                                         |      |                                              |    | 325                                                  |                                     |     |                                              |  |
| WB                                | DECEL E-S | 860+04   | 868+04   | 12         |                     |                      | 0.03      |                    |                      |                       |                                 | 279               |           |                | 20                          |                            |               |       |      |                        | 0.03                                         |      |                                              |    | 279                                                  |                                     |     |                                              |  |
| EB                                | ACCEL S-E | 873+60   | 888+17   | VAR        |                     |                      | 0.00      |                    |                      |                       |                                 | 0.00              |           |                |                             |                            |               |       |      |                        | 0.00                                         |      |                                              |    |                                                      |                                     |     |                                              |  |
| WB                                | DECEL E-N | 897+56   | 907+50   | 12         |                     |                      | 0.03      |                    |                      |                       |                                 | 364               |           |                | 18                          |                            |               |       |      |                        | 0.03                                         |      |                                              |    | 364                                                  |                                     |     |                                              |  |
| SR-3 INTERCHANGE                  |           |          |          |            |                     |                      |           |                    |                      |                       |                                 |                   |           |                |                             |                            |               |       |      |                        |                                              |      |                                              |    |                                                      |                                     |     |                                              |  |
| EB                                | DECEL     | 927+64.  | 936+04.  | VAR        |                     |                      | 0.06      | 0.16               | 0.16                 |                       |                                 | 261               |           |                | 83                          |                            |               |       |      |                        | 0.06                                         |      | 0.16                                         |    | 261                                                  |                                     |     |                                              |  |
| EB                                | RAMP D    | 3+30.    | 10+75.9  | 16         | 0.14                | 0.14                 |           | 0.14               | 0.14                 |                       |                                 | 122               | 83        |                | 180                         |                            |               |       |      |                        |                                              |      | 0.28                                         |    | 122                                                  |                                     | 83  |                                              |  |
| EB                                | ACCEL     | 949+22.  | 962+04.  | VAR        |                     |                      | 0.05      | 0.24               | 0.24                 |                       |                                 | 133               |           |                |                             |                            |               |       |      |                        | 0.05                                         |      | 0.24                                         |    | 133                                                  |                                     |     |                                              |  |
| EB                                | RAMP C    | 0+25.    | 5+74.    | 16         | 0.10                | 0.10                 |           | 0.10               | 0.10                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        |                                              |      | 0.20                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ACCEL     | 921+81.  | 934+78.  | VAR        |                     |                      | 0.05      | 0.25               | 0.25                 |                       |                                 | 147               |           |                |                             |                            |               |       |      |                        | 0.05                                         |      | 0.25                                         |    | 147                                                  |                                     |     |                                              |  |
| WB                                | RAMP A    | 0+26.    | 8+70.    | 16         | 0.16                | 0.16                 |           | 0.16               | 0.16                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        |                                              |      | 0.32                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | DECEL     | 950+90.  | 959+31.  | VAR        |                     |                      | 0.06      | 0.16               | 0.16                 |                       |                                 | 324               |           |                | 114                         |                            |               |       |      |                        | 0.06                                         |      | 0.16                                         |    | 324                                                  |                                     |     |                                              |  |
| WB                                | RAMP B    | 3+30.    | 10+72.   | 16         | 0.14                | 0.14                 |           | 0.14               | 0.14                 |                       |                                 | 147               | 81        |                | 123                         |                            |               |       |      |                        |                                              |      | 0.28                                         |    | 147                                                  |                                     | 81  |                                              |  |
| WEIGH STATION                     |           |          |          |            |                     |                      |           |                    |                      |                       |                                 |                   |           |                |                             |                            |               |       |      |                        |                                              |      |                                              |    |                                                      |                                     |     |                                              |  |
| WB                                | DECEL     | 1123+14. | 1131+16. | VAR        |                     |                      | 0.04      | 0.15               | 0.15                 |                       |                                 | 609               |           |                | 172                         |                            |               |       |      |                        | 0.04                                         |      | 0.15                                         |    | 609                                                  |                                     |     |                                              |  |
| WB                                | RAMP D    | 1118+13. | 1123+14. | 16         | 0.09                | 0.09                 |           | 0.09               | 0.09                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        |                                              |      | 0.18                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ACCEL     | 1092+00. | 1108+40. | VAR        |                     |                      | 0.05      | 0.31               | 0.31                 |                       |                                 | 636               |           |                |                             |                            |               |       |      |                        | 0.05                                         |      | 0.31                                         |    | 636                                                  |                                     |     |                                              |  |
| WB                                | RAMP C    | 1108+40. | 1113+41. | 16         | 0.09                | 0.09                 |           | 0.09               | 0.09                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        |                                              |      | 0.18                                         |    |                                                      |                                     |     |                                              |  |
| SR-57 INTERCHANGE                 |           |          |          |            |                     |                      |           |                    |                      |                       |                                 |                   |           |                |                             |                            |               |       |      |                        |                                              |      |                                              |    |                                                      |                                     |     |                                              |  |
| WB                                | RAMP B    | 0+16.    | 10+34.   | 16         | 0.19                | 0.19                 |           | 0.19               | 0.19                 |                       |                                 |                   |           |                |                             |                            |               |       |      |                        |                                              |      | 0.38                                         |    |                                                      |                                     |     |                                              |  |
| WB                                | ACCEL     | 1203+84. | 1217+55. | VAR        |                     |                      | 0.05      | 0.26               | 0.26                 |                       |                                 | 235               |           |                |                             |                            |               |       |      |                        | 0.05                                         |      | 0.26                                         |    | 235                                                  |                                     |     |                                              |  |
| TOTALS CARRIED TO GENERAL SUMMARY |           |          |          |            |                     | 14.92                | 14.52     |                    | 14.92                |                       |                                 | 3,582             | 164       |                | 710                         |                            |               |       | 1    |                        | 14.52                                        |      | 29.84                                        |    | 3,582                                                |                                     | 164 |                                              |  |

78  
138

PAVEMENT MARKING SUB-SUMMARY

MED-76-0.61

PAVEMENT MARKING SUB-SUMMARY

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78  
138

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ADW  
CHK'D  
BY: BAD

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### CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY ENGINEER" UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

### LAYOUT OF WORK

PRIOR TO REMOVING OR ERECTING SIGNS OR SIGN SUPPORTS, THE CONTRACTOR SHALL FIELD LAYOUT AND IDENTIFY, BY TYPE OF WORK, SIGNS AND SIGN SUPPORTS TO BE ERECTED OR REMOVED. THIS LAYOUT MAY BE ACCOMPLISHED BY STAKING OR BY PLACING CLEARLY DISCERNABLE PAINTED MARKINGS ON THE EDGE OF PAVEMENT OR BY OTHER METHODS APPROVED BY THE ENGINEER. IN NO CASE SHALL THE CONTRACTOR PLACE ANY PERMANENT MARKINGS ON ANY EXISTING SIGN OR SIGN SUPPORT. PAYMENT FOR LAYOUT OF WORK, INCLUDING ALL MATERIALS AND LABOR, SHALL BE INCLUDED WITH THE UNIT PRICE BID FOR THE VARIOUS 630 AND 631 ITEMS IN THIS PLAN.

### RESTORATION OF DISTURBED AREAS

THE CONTRACTOR SHALL RESTORE ALL SEEDED AND SODDED AREAS, PAVED BERMS, AND OTHER DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER TO THAT EXISTING BEFORE THIS WORK WAS STARTED. ALL RESTORATION WORK SHALL BE DONE IN ACCORDANCE WITH THE PERTINENT SPECIFICATION ITEM AND AS DIRECTED BY THE ENGINEER. PAYMENT FOR ALL RESTORATION WORK, INCLUDING MATERIALS AND LABOR SHALL BE INCLUDED WITH THE UNIT PRICE BID FOR THE VARIOUS 630 AND 631 ITEMS IN THIS PLAN.

### ITEM 201 - CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

CLEARING AND GRUBBING SHALL BE PERFORMED IN AREAS AS DIRECTED BY THE ENGINEER TO PROVIDE ADEQUATE CLEAR SITE DISTANCE TO SIGNS ERECTED AS PART OF THIS PLAN. SEE SHEET NO. 82 FOR CLEARING AND GRUBBING GUIDE DETAIL. THE FOLLOWING QUANTITY IS INCLUDED IN THE GENERAL SUMMARY TO COMPLETE THE ABOVE DESCRIBED WORK:

201 - CLEARING AND GRUBBING LUMP

### ITEM 630 - SIGNING, MISC.: SIGN DATA COLLECTION:

THIS ITEM OF WORK SHALL CONSIST OF COLLECTING AND RECORDING INFORMATION FOR ANY WORK INVOLVING PERMANENT SIGNING INCLUDING SIGN REMOVAL, SIGN RELOCATION OR NEW SIGN INSTALLATION ON THIS PROJECT. DISTRICT THREE HAS A SIGN INVENTORY SYSTEM IN OPERATION. WORK PERFORMED ON EXISTING SIGNS AND INSTALLATION OF NEW SIGNS WILL AFFECT THE ACCURACY OF THE INVENTORY. ALL EXISTING SIGNS HAVE A BAR CODE STICKER. THE BAR CODE STICKER NUMBER FOR ANY SIGNS REMOVED ON THE PROJECT SHALL BE RECORDED COMPLETELY AND ACCURATELY SO THEY CAN BE REMOVED FROM THE INVENTORY. THE BAR CODE STICKER NUMBER FOR ANY SIGNS THAT ARE NEW OR RELOCATED SHALL ALSO BE RECORDED COMPLETELY AND ACCURATELY. NEW SIGNS REQUIRE NEW BAR CODE STICKERS WHICH WILL BE SUPPLIED TO THE CONTRACTOR AT THE PRECONSTRUCTION MEETING. ANY STICKERS NOT USED ARE TO BE RETURNED TO ODOT DISTRICT 3 TRAFFIC DEPARTMENT.

THE INFORMATION SHALL BE COLLECTED FROM ALL SIGNS REMOVED, RELOCATED OR INSTALLED ON THE PROJECT AND RECORDED COMPLETELY AND ACCURATELY BY A PERSON FAMILIAR WITH SIGNING TERMINOLOGY. THE INFORMATION REQUIRED APPEARS ON A FORM WHICH WILL BE SUPPLIED TO THE CONTRACTOR AT THE PRECONSTRUCTION MEETING. ALL SECTIONS OF THE FORM SHALL BE COMPLETED FROM THE INFORMATION COLLECTED FOR EACH SIGN. NOTE THAT THE STRAIGHT LINE MILEAGE LOG POINT OF THE SIGN REMOVAL, RELOCATION OR INSTALLATION IS TO BE PROVIDED. PROJECT STATIONING IS NOT ACCERTABLE. AFTER THE FORM IS COMPLETED, IT SHALL BE RETURNED TO ODOT DISTRICT 3 TRAFFIC DEPARTMENT. A COPY OF THIS FORM IS AVAILABLE UPON REQUEST FOR THE CONTRACTOR TO REVIEW FOR BIDDING PURPOSES. FOR A COPY OF THIS FORM PLEASE CALL 1-419-207-7045, ROADWAY SERVICES MANAGER. ALL COMPLETED FORMS FOR THE PROJECT ARE TO BE PROVIDED TO THE ENGINEER NOT LATER THAN 30 CALENDAR DAYS AFTER COMPLETION OF SIGNING WORK ITEMS.

PAYMENT FOR THE LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PERFORM THE ABOVE WORK WHICH INCLUDES COLLECTION OF INFORMATION, COMPLETION OF THE FORMS SUPPLIED TO THE CONTRACTOR, INSTALLATION OF BAR CODE STICKERS, MEASURING OF THE SIGNS AND ANY OTHER WORK IN ORDER TO COMPLETE THE FORM SHALL BE INCLUDED IN THE COST OF ITEM 630 - SIGNING, MISC.: SIGN DATA COLLECTION PER EACH.

### BRIDGE LOCATION MARKER SIGN

THE BRIDGE LOCATION MARKER SIGN INDICATES THE COUNTY, THE ROUTE, AND THE STRAIGHT LINE MILEAGE OF THE STRUCTURE. THE CONTRACTOR SHALL REMOVE THE EXISTING BRIDGE LOCATION MARKER SIGNS FOR REERECTION ON EXISTING OR NEW SUPPORTS AS SHOWN IN THE PLANS. IF THERE ARE ANY QUESTIONS ABOUT THE LOCATION, PLEASE CONTACT THE DISTRICT 3 BRIDGE ENGINEER @ 1-419-207-7149

### MILE MARKER LOCATION

THE LOCATION OF MILE MARKERS ON THE PLANS ARE APPROXIMATE AND A MORE PRECISE LOCATION WILL BE PROVIDED BY THE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 30 DAYS IN ADVANCE OF PLANNED DATE OF MARKER INSTALLATION. THE ENGINEER SHALL CONTACT JERRY WATSON, ROADWAY INFORMATION FIELD OPERATIONS, OFFICE OF TECHNICAL SERVICES, 614-752-5733 WHICH SHALL LOCATE THE LONGITUDINAL POSITIONS OF THE MILE MARKERS BY MEANS OF A PAINT MARK ON THE PAVEMENT EDGE. ALTERNATE MARKS WILL NOT BE PROVIDED ON DIVIDED HIGHWAYS AND THE CONTRACTOR SHALL SET MARKERS FOR THE OPPOSITE ROASEAY ACROSS FROM THE PROVIDED MARK. DELINEATORS WHOSE NORMAL POSITIONS FALL WITHIN 50 FEET OF A MILE MARKER SHALL BE OMITTED.

### ITEM 630 - GROUND MOUNTED SUPPORT, (BY SIZE), AS PER PLAN

GROUND MOUNTED POST SUPPORTS USED ON THIS PROJECT SHALL BE U-CHANNEL DESIGN AND BE PER CMS 630.06 AND SCD TC-41.20 WITH THE FOLLOWING EXCEPTIONS.

POST SUPPORTS EXPOSED TO TRAFFIC SHALL BE STUBBED AND SPLICED PER THE FOLLOWING PROCEDURE:

- 1) DRIVE 5'-6" LONG STUB TO WITHIN 12" OF GROUND SURFACE.
- 2) BOLT UPPER SIGN POST TO STUB USING QUANTITY OF THREE 5/16" STAINLESS STEEL BOLTS, LOCK WASHERS, AND NUTS WITH A MINIMUM OF 4" CENTER TO CENTER SPACING.
- 3) THE UPPER POST SHALL BE SPLICED BEHIND THE STUB POST TO MINIMIZE THE POSSIBILITY OF VEHICLE SNAGGING.
- 4) PLACE NO MORE THAN TWO POSTS PER SIGN WITHIN 7' SPACING UNLESS LOCATED BEHIND GUARDRAIL
- 5) DESIGNATE SUPPORTS INSTALLED WITH THIS METHOD AS "BREAKAWAY TYPE = U-CHANNEL SPLICE (NON-BREAKAWAY)" ON DISTRICT 3 SIGN DATA COLLECTION FORM.
- 6) COST OF SPLICE CONNECTION AND OVERLAP OF POSTS SHALL BE INCIDENTAL TO THE COST OF EACH SIGN SUPPORT.

BASIS OF PAYMENT SHALL BE AT THE UNIT PRICE BID PER FOOT.

### ITEM 630 - ONE-WAY SUPPORT NO. 3 POST, AS PER PLAN

GROUND MOUNTED SUPPORTS USED FOR ONE-WAY SUPPORTS SHALL BE PER THE REQUIREMENTS OF THIS PLAN. ATTACHMENT OF THE ONE-WAY SIGNS SHALL BE PER THE "ALTERNATE ONE-WAY SIGN ATTACHMENT" DETAIL ON SCD TC-41.50.

BASIS OF PAYMENT SHALL BE AT THE UNIT PRICE BID PER FOOT.

### ITEM 630 - SIGN ATTACHMENT ASSEMBLY, AS PER PLAN

THIS PAY ITEM IS PER CMS 630.06, IN ADDITION THIS ITEM SHALL INCLUDE REMOVAL AND DISPOSAL OF ANY EXISTING SIGN ATTACHMENT ASSEMBLIES THAT ARE BEING REPLACED.

BASIS OF PAYMENT SHALL BE AT THE UNIT PRICE PER EACH.

### ITEM 630 - REMOVAL OF GROUND MOUNTED BEAM SUPPORT, AS PER PLAN

THIS ITEM OF WORK SHALL INCLUDE THE REMOVAL OF AN EXISTING WOOD BEAM SIGN SUPPORT. THE SUPPORT SHALL BE FULLY REMOVED FROM THE GROUND OR CUT OFF A MINIMUM 1 FOOT BELOW GRADE. BACKFILL AND RESTORE SURFACES TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE WORK STARTED. DISPOSE OF SURPLUS MATERIAL PER CMS 603.10 AT NO COST TO THE DEPARTMENT.

BASIS OF PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH.

### ITEM 630 - SIGN, FLAT SHEET, AS PER PLAN

THE W8-13 "BRIDGE ICES BEFORE ROAD" SIGN SHALL BE PER THE REQUIREMENTS OF CMS 630.04. IN ADDITION, THE SIGN SHALL BE HINGED PER THE DETAIL SHOWN ON SHEET NO. 82 OF THIS PLAN. ALL REFLECTIVE SHEETING MATERIALS SHALL BE CONTAINED ON THE ODOT LIST OF PREQUALIFIED SIGN SHEETING MATERIALS.

BASIS OF PAYMENT SHALL BE PER CMS 630.14 AT THE UNIT PRICE BID PER SQ. FT FOR:

ITEM 630, SIGN, FLAT SHEET, AS PER PLAN

### MAINTAINING TRAFFIC FOR SIGN WORK

THE INTENT IS TO PERFORM THE REQUIRED WORK WITH THE LEAST INCONVENIENCE TO, AND THE MAXIMUM SAFETY TO, THE CONTRACTOR AND THE TRAVELING PUBLIC.

PROCEDURES FOR MAINTAINING TRAFFIC SHALL BE IN COMPLIANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND STANDARD CONSTRUCTION DRAWINGS AS LISTED ON THE TITLE SHEET OF THIS PLAN. WORK ON OR BEYOND THE SHOULDER SHALL BE IN ACCORDANCE WITH FIGURES 6H-1, 6H-3, AND 6H-4 OF THE ODOTCD. FLAGGING PROCEDURES SHALL BE IN ACCORDANCE WITH FIGURE 6E-1 OF THE ODOTCD.

THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 614. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, EXCEPT AS NOTED HEREIN.

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, ERECT, AND MAINTAIN IN PROPER POSITION, CLEAN, LEGIBLE DEVICES IN GOOD WORKING CONDITION AND SUBSEQUENTLY REMOVE ALL LIGHTS, SIGNS, BARRICADES, CONES, AND ALL OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC. ALL SIGNS SHALL BE REFLECTORIZED WITH TYPE G REFLECTIVE SHEETING.

PLACEMENT OF ALL TRAFFIC CONTROL DEVICES SHALL START AND PROCEED IN THE DIRECTION OF THE FLOW OF TRAFFIC. REMOVAL OF TRAFFIC CONTROL DEVICES SHALL START AT THE END OF THE CONSTRUCTION AREA AND PROCEED TOWARD THE ONCOMING TRAFFIC. THE CONTRACTOR SHALL PROVIDE FOR INSTALLATION OF ALL NECESSARY TRAFFIC CONTROL DEVICES BEFORE BEGINNING WORK. THE CONTRACTOR SHALL IMMEDIATELY REMOVE ALL OF THE BEFORE MENTIONED TRAFFIC CONTRL DEVICES AS SOON AS WORK IS SUSPENDED OR COMPLETED. ADVANCE WARNING SIGNS MAY BE COVERED FROM VIEW OF TRAFFIC WHEN THEY ARE NOT APPLICABLE, AS DETERMINED BY THE ENGINEER.

LANE CLOSURES (TAPERS AND TRANSITIONS) MAY BE ACCOMPLISHED BY THE USE OF TRAFFIC CONES, WITH A 28" MINIMUM HEIGHT. WITH THE APPROVAL OF THE ENGINEER, CONES MAY BE USED FOR SHORT TIME CLOSURES. THE CONES SHALL BE SPACED CENTER TO CENTER FROM THE BEGINNING OF THE FIRST LANE CLOSURE THROUGH THE WORK AREA(S) AS PER THE STANDARD CONSTRUCTION DRAWINGS. REFLECTORIZED BARRICADES OR DRUMS MAY BE USED IN LIEU OF TRAFFIC CONES, IF DESIRED.

NO LANE CLOSURES SHALL OCCUR ON ANY ROAD FROM 12:00 NOON THE DAY PRECEDING A STATE HOLIDAY THROUGH 6:00 PM THE DAY AFTER. NO TRAFFIC CLOSURES WILL OCCUR ON SATURDAY OR SUNDAY WITHOUT THE APPROVAL OF THE ENGINEER.

ON TWO-LANE HIGHWAYS, ONE-LANE CLOSURES SHALL BE OPERATED BY USE OF FLAGGERS AND WILL BE REQUIRED WHENEVER TRAFFIC IS RESTRICTED TO LESS THAN THE NORMAL WIDTH OF THE TWO-LANE PAVEMENT AS PER STANDARD CONSTRUCTION DRAWING MT-97.10.

A FLASHING ARROW PANEL SHALL BE REQUIRED WHENEVER ANY WORK IS BEING DONE UPON ANY TRAVELED PORTION OF A MULTI-LANE HIGHWAY. SEE STANDARD CONSTRUCTION DRAWING MT-35.10 FOR FLASHING ARROW PANEL SIZE.

IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE ODOTCD, AND SUCH FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC, THE ENGINEER SHALL SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

PAYMENT FOR ALL OF THE ABOVE INCLUDING PROVIDING, ERECTING, MAINTAINING, AND REMOVING ALL LIGHTS, SIGNS BARRICADES, DRUMS CONES AND ALL OTHER TRAFFIC CONTROL DEVICES, SHALL BE INCLUDED IN THE LUMP SUM BID FOR THIS ITEM.

## PROTECTIVE COATING OF OVERHEAD SIGN SUPPORT SECTIONS

### GENERAL

Overhead sign supports can be separated into major sections such as end frames, trusses, vertical poles and cantilever arms. For the implementation of this work item it will be beneficial to refer to the major sections of the overhead sign supports rather than the whole support. More specific instructions and flexibility can be given based upon the unit of measure and payment per major support section.

The protective coating of overhead sign support sections shall be a four part process to include surface preparation followed by a three coat paint system. This three coat system shall consist of an organic zinc prime coat, an epoxy intermediate coat and a urethane finish coat, with each coat being a different color. The purpose of this coating is to provide protection for new (unweathered) and older (weathered) galvanized steel support sections from corrosive elements in the atmosphere. Coating and surface preparation of new galvanized support sections should be done by the manufacturer.

In the field, the Contractor shall take all necessary precautions to comply with pollution laws, rules or regulations of Federal, State or Local agencies. The coating materials specified for the work can be hazardous to the health of the applicator if not applied as per manufacturer's instruction. The Contractor shall follow the data sheet and the label on the paint containers. These precautions shall include the use of respirators and eye and skin protection as specified. The Contractor shall also insure that his painting operations and locations will not endanger or adversely affect the public in general.

The proposed cleaning and coating operations shall be performed only when the ambient temperature is 50 degrees F (10 Degrees C) or above. Paint shall not be applied during rain, fog or mist, or when the steel surface temperature is less than 5 degrees F (3 degrees C) above the dew point. Paint shall not be applied to wet or damp surfaces or on frosted or ice-coated surfaces. Paint shall not be applied when the relative humidity is greater than 85%. All steel surfaces of trusses and end frames including the welded areas, ballast enclosure mounting bracket and base plates are to be cleaned and coated. Before each coating is applied, it shall be mixed with an approved power mechanical mixer to a uniform consistency which shall be maintained during its application. Each coat shall be applied in a workmanlike manner as a continuous film of uniform thickness which is free of holidays, pores, runs or sags. All coats shall be applied by brush or roller. Thinning of paint is strictly prohibited. Paint not capable of being applied as specified shall not be used. The coating shall penetrate all joints and connections. The Engineer shall be notified 24 hours prior to any cleaning or coating operations so that inspection services can be provided.

### COATING SYSTEM

The coating system shall be a three coat paint system conforming to 708.02. Supply the primer, intermediate and finish coats from the same manufacturer.

### SURFACE PREPARATION, EXISTING SUPPORT SECTIONS

Existing, weathered galvanized support sections should have their surface preparation as well as their protective coating done under conditions of temperature and humidity within the same range as specified by the manufacturer of the organic zinc prime coat material to be used immediately after this cleaning operation. The support sections shall be prepared for coating by SSPC-SPI (solvent cleaning) followed by SSPC-SP10 (near white blast cleaning). Before the prepared surface degrades from the prescribed standards, the prime coat shall be applied.

In every case, the surface shall be coated with organic zinc prime coat on the same day as the surface preparation. Careful handling and storage will be required to prevent any scraping, marring, or other damage to the prepared surface. Payment shall include all labor, equipment, handling, transportation costs and materials necessary to accomplish this item of work per major support section.

Basis of payment will be as follows:

Item 630 - Surface Preparation, Existing Support Section at contract bid price per each major support section.

### COATING, ORGANIC ZINC PRIME COAT, SUPPORT SECTIONS

This item shall consist of the application of one (1) coat of an organic zinc primer to support sections. The total dry film thickness of this coat shall be between 1.5 to 2.0 mils (38 to 51 micrometers). If more than one pass is necessary to obtain the required thickness, that cost shall be borne by the Contractor. The color of this coat shall be noticeably different from the base material and other proposed coats.

This coat shall in all cases be applied over surfaces that were prepared earlier that same day. The thinning of the material is strictly prohibited. Material not capable of being applied as specified shall not be used.

When the average dry film thickness of this coat over the entire support section is less than the specified 1.5 to 2.0 mils (38 to 51 micrometers) but is at least 1.25 mils (32 micrometers), the contract bid price for this item shall be reduced in direct proportion to the percent deficiency of coating up to 16-2/3%. If the deficiency of coating is more than that 16-2/3% [i.e., the average dry film thickness is less than 1.25 mils (32 micrometers)] the work for this item shall be considered unsatisfactory and shall be recoated at the full expense of the Contractor, including all labor, equipment and material.

Payment shall include all labor, equipment, handling costs and materials necessary to accomplish this item of work. This prime coat shall be manufactured by the same company supplying the intermediate and top coats. A properly calibrated dry film thickness instrument will be used to check the coating.

Basis of payment will be as follows:

Item 630 - Coating, Organic Zinc Prime Coat, Support Section at contract bid price per each major support section.

### COATING, EPOXY INTERMEDIATE COAT, SUPPORT SECTIONS

This item shall consist of the application of one (1) coat of epoxy to support sections. The total dry film thickness of this coat shall not be less than six (6.0) mils (152 micrometers). If more than one pass is necessary to obtain the required thickness, that cost shall be borne by the Contractor. Thinning of the material is strictly prohibited. Material not capable of being applied as specified shall not be used.

When the average dry film thickness of this coat over the entire support section is less than the specified 6.0 mils (152 micrometers), but is at least 5.0 mils (127 micrometers), the contract price for this item shall be reduced in direct proportion to the percent deficiency of coating up to 16-2/3%. If the deficiency of coating is more than 16-2/3%, [i.e. the average dry film thickness is less than 5.0 mils (127 micrometers)], the work for this item shall be considered unsatisfactory and shall be recoated at the full expense of the Contractor, including all labor, equipment and material.

At least 24 hours but no more than three (3) days shall elapse after the application of the organic zinc prime coat and before the application of the epoxy intermediate coat. Surfaces shall in all cases be clean before the intermediate coat is applied.

Payment shall include all labor, equipment, handling cost and material necessary to accomplish this item of work. This intermediate coat shall be manufactured by the same company supplying the prime and top coats. A properly calibrated dry film thickness instrument will be used to check the coating.

Basis of payment will be as follows:

Item 630 - Coating, Epoxy Intermediate Coat, Support Section at contract bid price per each major support section.

### COATING, URETHANE TOP COAT, SUPPORT SECTION

This item shall consist of the application of one (1) coat of urethane to support sections. The total dry film thickness of this coat shall not be less than 1.5 mils (38 micrometers). If more than one pass is necessary to obtain the required thickness, that cost shall be borne by the Contractor. Thinning of the material is strictly prohibited. Material not capable of being applied as specified shall not be used. The color of this coat shall be medium grey.

When the average dry film thickness of this coat over the entire support section is less than the specified 1.5 mils (38 micrometers) but is at least 1.0 mil (25 micrometers), the contract price for this item shall be reduced in direct proportion to the percent deficiency of coating up to 33-1/3%. If the deficiency of coating is more than 33-1/3%, [i.e. the average dry film thickness is less than 1.0 mil (25 micrometers)], the work for this item shall be considered unsatisfactory and shall be recoated at the full expense of the Contractor, including all labor, equipment and material.

At least 24 hours but no more than three (3) days shall elapse after the application of the epoxy intermediate coat and before the application of the urethane finish coat. Surfaces shall in all cases be clean before the finish coat is applied.

Payment shall include all labor, equipment, handling cost and materials necessary to accomplish this item of work. This finish coat shall be manufactured by the same company supplying the prime and intermediate coats. A properly calibrated, dry film thickness instrument will be used to check the coating.

Basis of payment will be as follows:

Item 630 - Coating, Urethane Top Coat, Support Section at contract bid price per each major support section.

### PREQUALIFICATION

Prior to use, the contractor shall submit to the Director copies of the manufacturer's certified test data showing that the material complies with the requirements of this specification. The test data shall include the brand name of the paint, name of manufacturer, number of the lot tested and date of manufacture. When the paint has been approved by the Director, further performance testing by the manufacturer will not be required unless the formulation of manufacturing process has been changed. In which case new certified test results will be required.

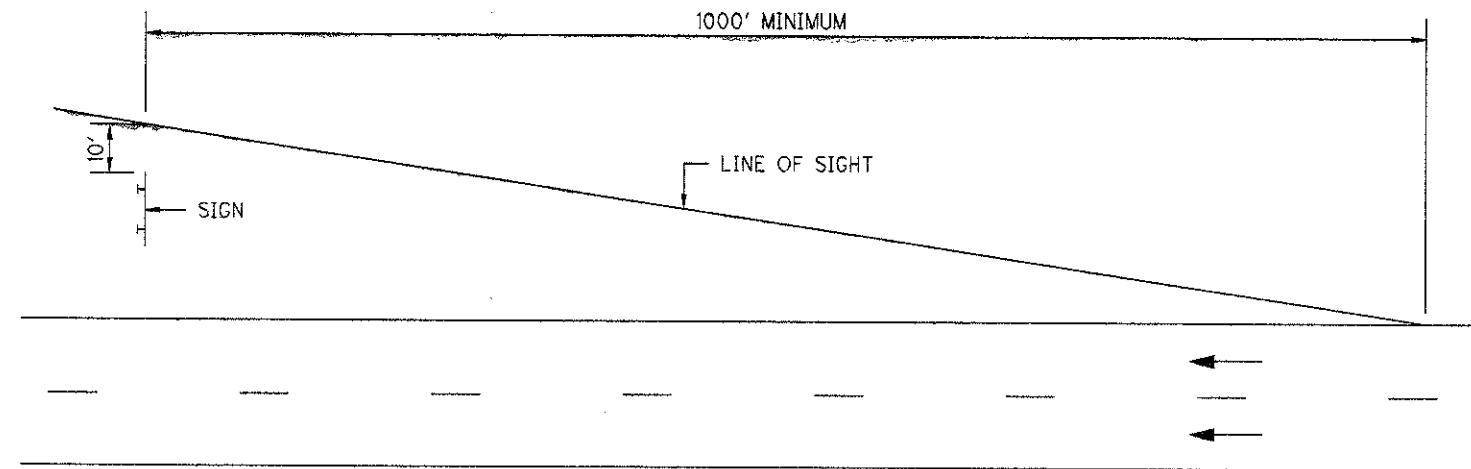
| SIGN NO. | STATION | VERTICAL POLES | CANTILEVER ARM |
|----------|---------|----------------|----------------|
| 123      | 10+45   | 1              | 1              |
| 144      | 13+65   | 1              | 1              |
| 158      | 19+18   | 1              | 1              |
| 178      | 26+85   | 1              | 1              |

THE TOTAL NUMBER OF MAJOR SUPPORT SECTIONS THAT SHALL RECEIVE PROTECTIVE COATING = 8

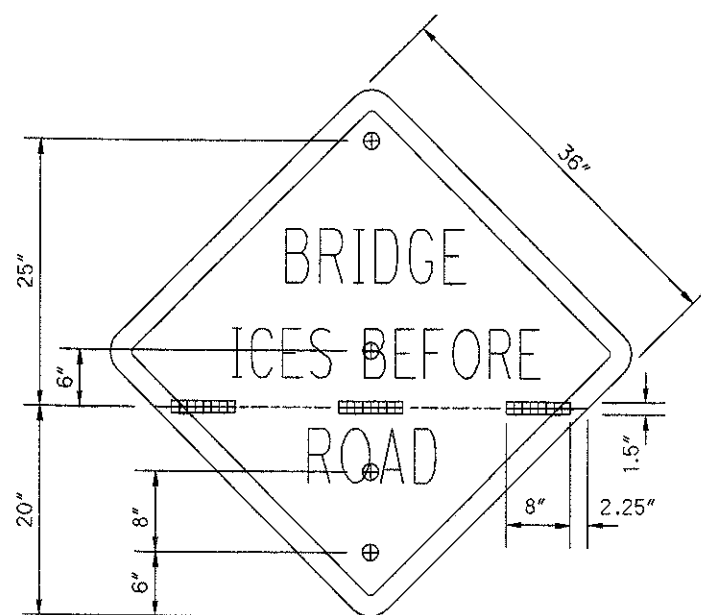
PAYMENT WILL BE MADE UNDER:

| TOTAL | ITEM | EXTENSION | UNIT | DESCRIPTION                                       |
|-------|------|-----------|------|---------------------------------------------------|
| 8     | 630  | 09100     | EACH | SURFACE PREPARATION, EXISTING SUPPORT SECTION     |
| 8     | 630  | 09104     | EACH | COATING, EPOXY PRIME COAT, SUPPORT SECTION        |
| 8     | 630  | 09106     | EACH | COATING, EPOXY INTERMEDIATE COAT, SUPPORT SECTION |
| 8     | 630  | 09108     | EACH | COATING, URETHANE TOP COAT, SUPPORT SECTION       |

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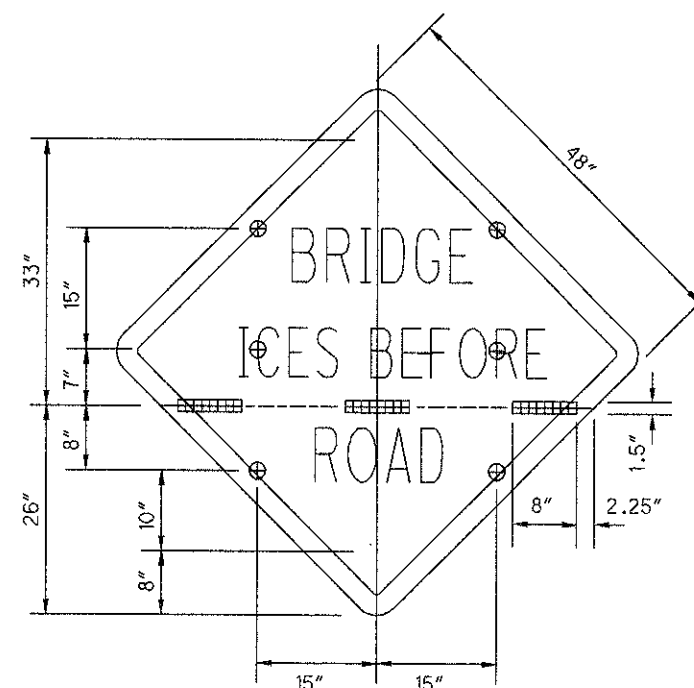
**TYPICAL GUIDE FOR CLEARING AND GRUBBING**  
"THIS DETAIL APPLIES TO ALL SIGNS ON THIS PROJECT"



- 1) THE SIGN SHALL BE JOINED WITH AN 8" LONG BY 1-1/2" WIDE STAINLESS STEEL HINGE WHICH IS RIVETED TO EACH SECTION OF THE SIGN AND THEN COVERED WITH YELLOW REFLECTIVE SHEETING, (TYPE F-730.18) TO MATCH THE BACKGROUND OF THE SIGN.
- 2) TO FOLD THE SIGN DOWN, REMOVE THE TOP TWO BOLTS, FOLD THE UPPER PART OF THE SIGN DOWN AND INSERT A BOLT THROUGH THE LOWEST HOLE IN THE SIGN AND INTO THE POST. FASTEN THE BOLT TO PREVENT THE SIGN FROM FLOPPING IN THE WIND AND SUSTAINING DAMAGE.
- 3) MOUNT ON ONE NO. 3 SIGN SUPPORTS.

HOLES DRILLED AS PER TC-52.10

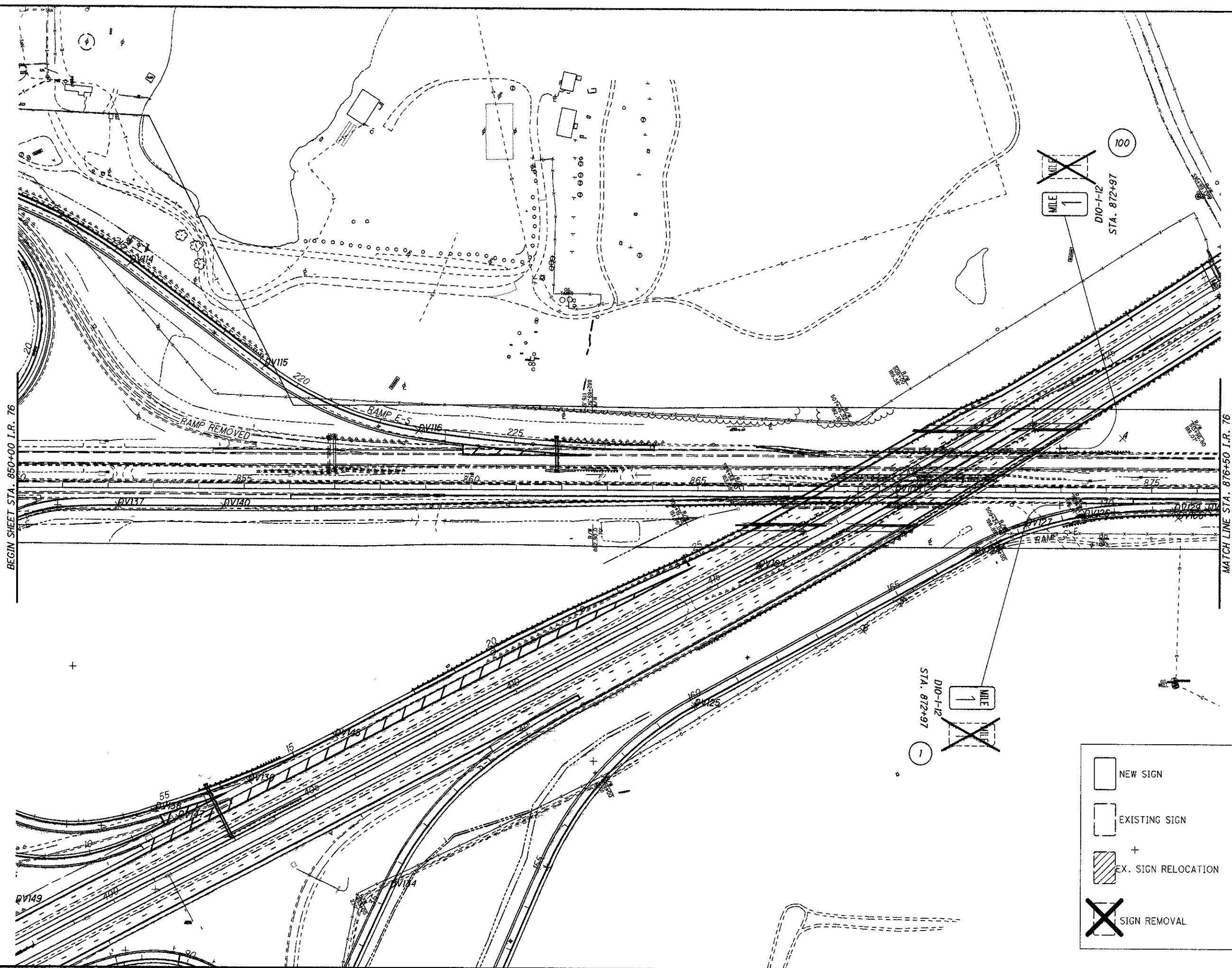
W8-13-36 HINGED SIGN DETAIL



- 1) THE SIGN SHALL BE JOINED WITH AN 8" LONG BY 1-1/2" WIDE STAINLESS STEEL HINGE WHICH IS RIVETED TO EACH SECTION OF THE SIGN AND THEN COVERED WITH YELLOW REFLECTIVE SHEETING, (TYPE F-730.18) TO MATCH THE BACKGROUND OF THE SIGN.
- 2) TO FOLD THE SIGN DOWN, REMOVE THE TOP TWO BOLTS, FOLD THE UPPER PART OF THE SIGN DOWN AND INSERT A BOLT THROUGH THE LOWEST HOLE IN THE SIGN AND INTO THE POST. FASTEN THE BOLT TO PREVENT THE SIGN FROM FLOPPING IN THE WIND AND SUSTAINING DAMAGE.
- 3) MOUNT ON TWO NO. 3 SIGN SUPPORTS.

HOLES DRILLED AS PER TC-52.10

W8-13-48 HINGED SIGN DETAIL

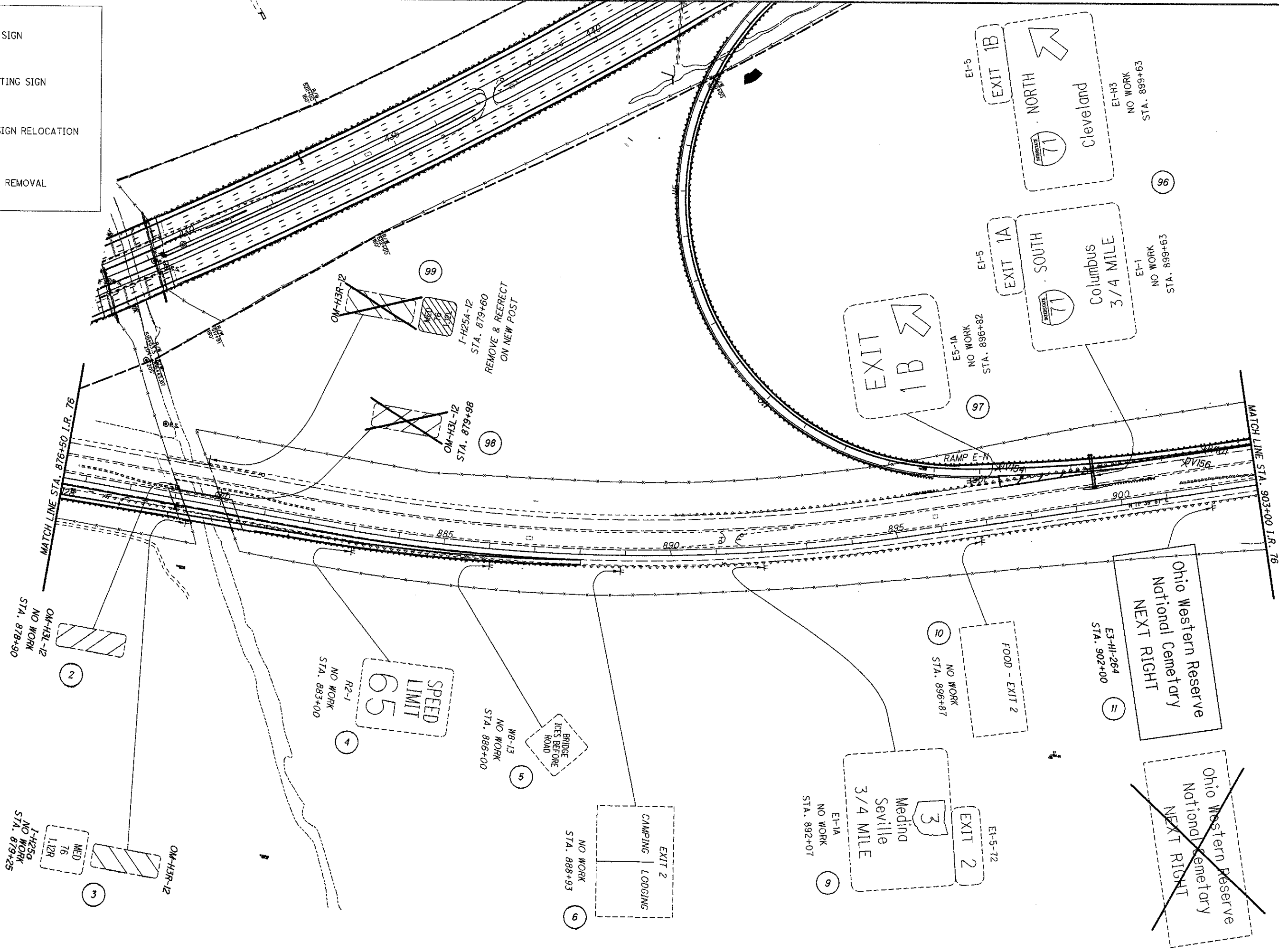


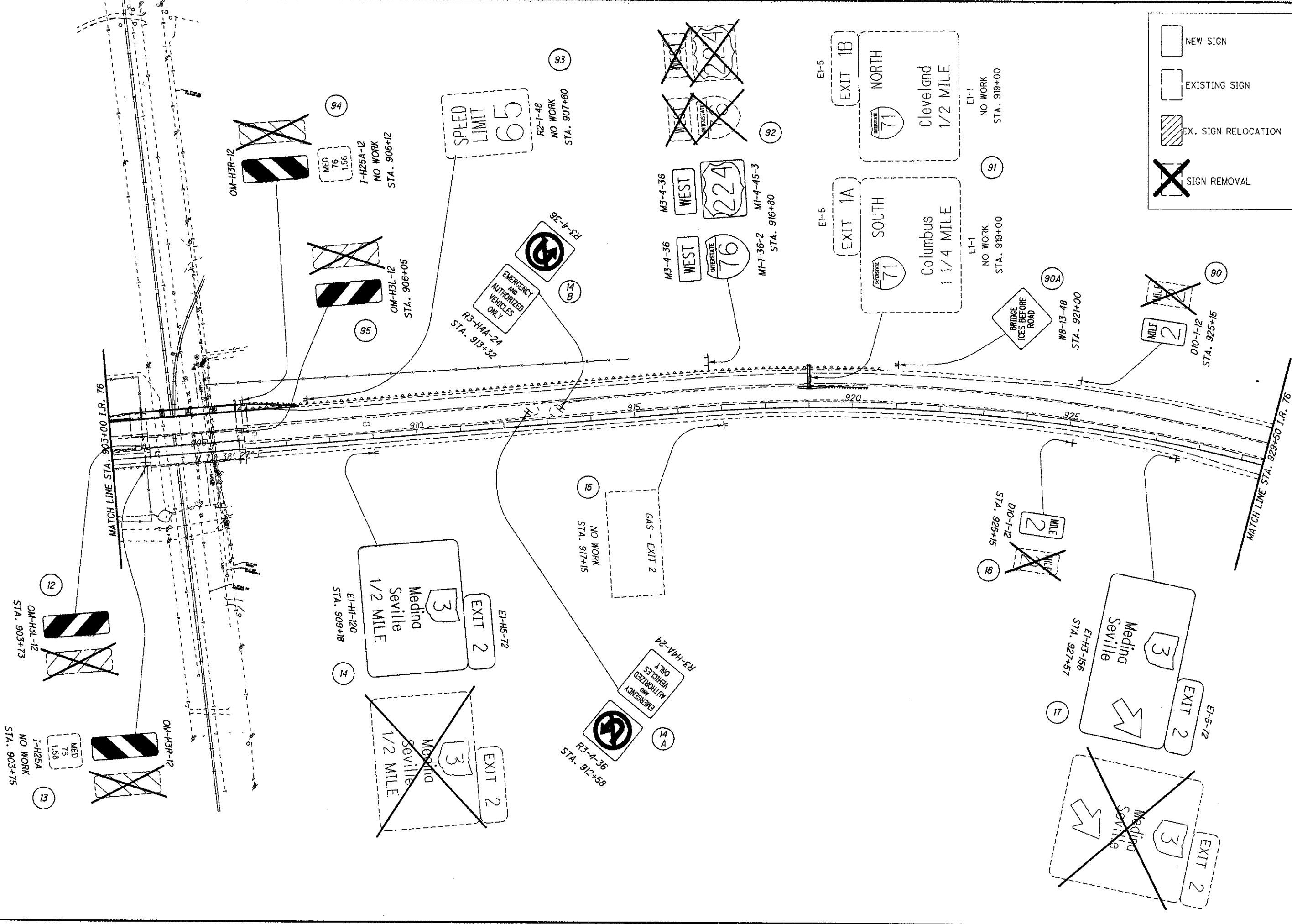
NEW SIGN

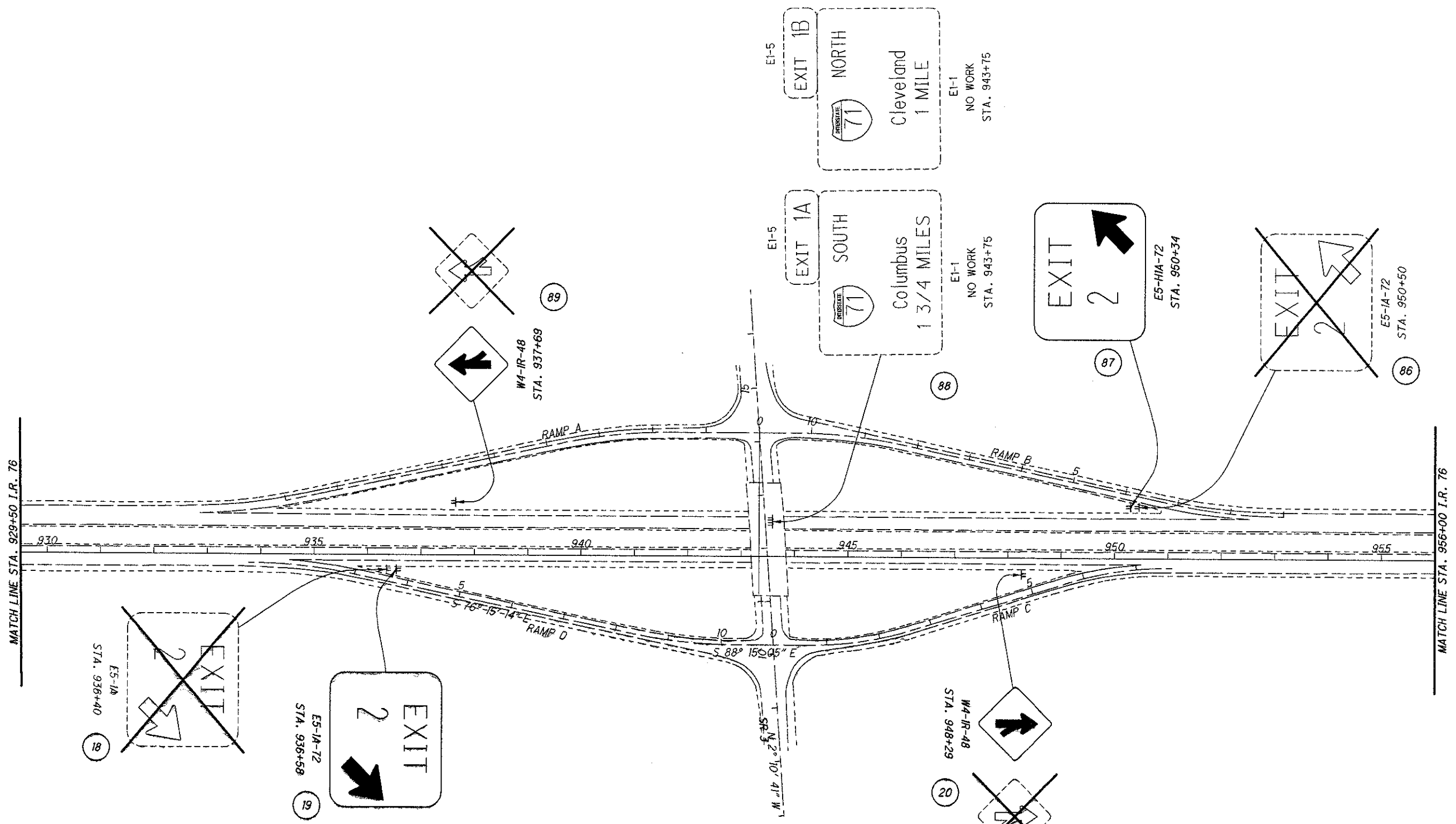
EXISTING SIGN

EX. SIGN RELOCATION

SIGN REMOVAL

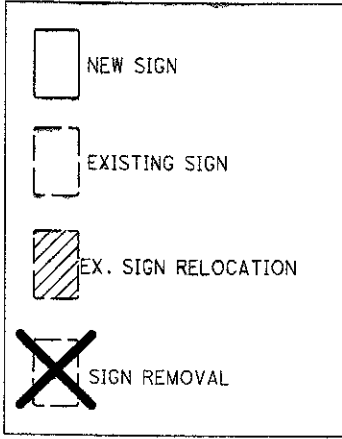




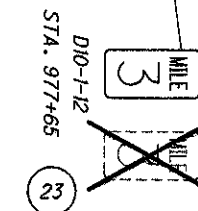
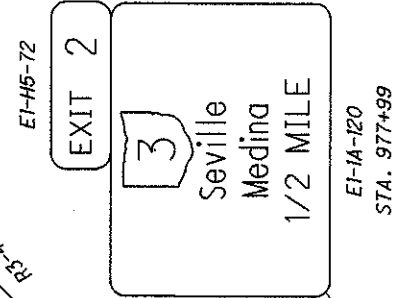
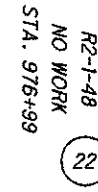
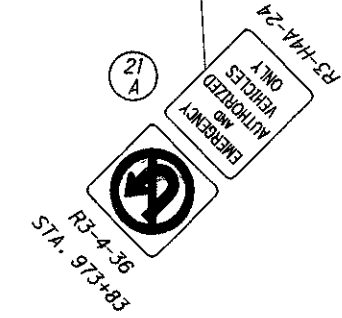
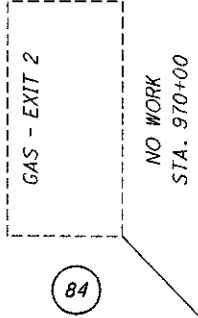
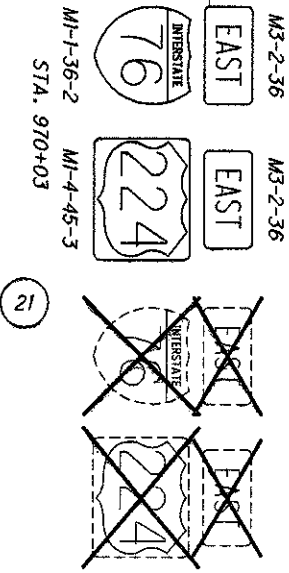
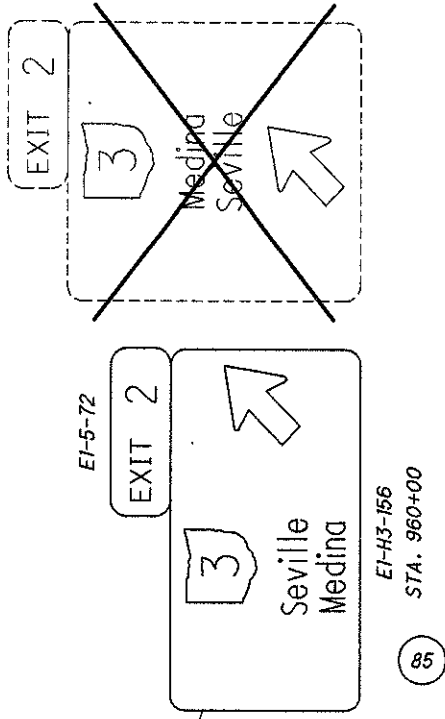


SEE SHEET 98 FOR SR 3 INTERCHANGE SIGNING  
SEE SHEET 99-100 FOR SR 3 SIGNING

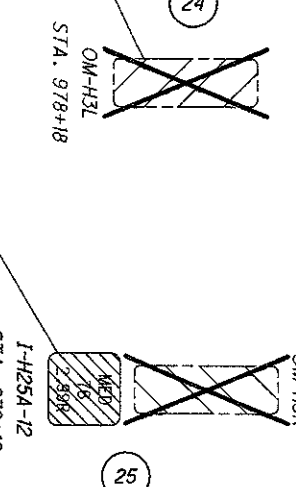
|  |                     |
|--|---------------------|
|  | NEW SIGN            |
|  | EXISTING SIGN       |
|  | EX. SIGN RELOCATION |
|  | SIGN REMOVAL        |



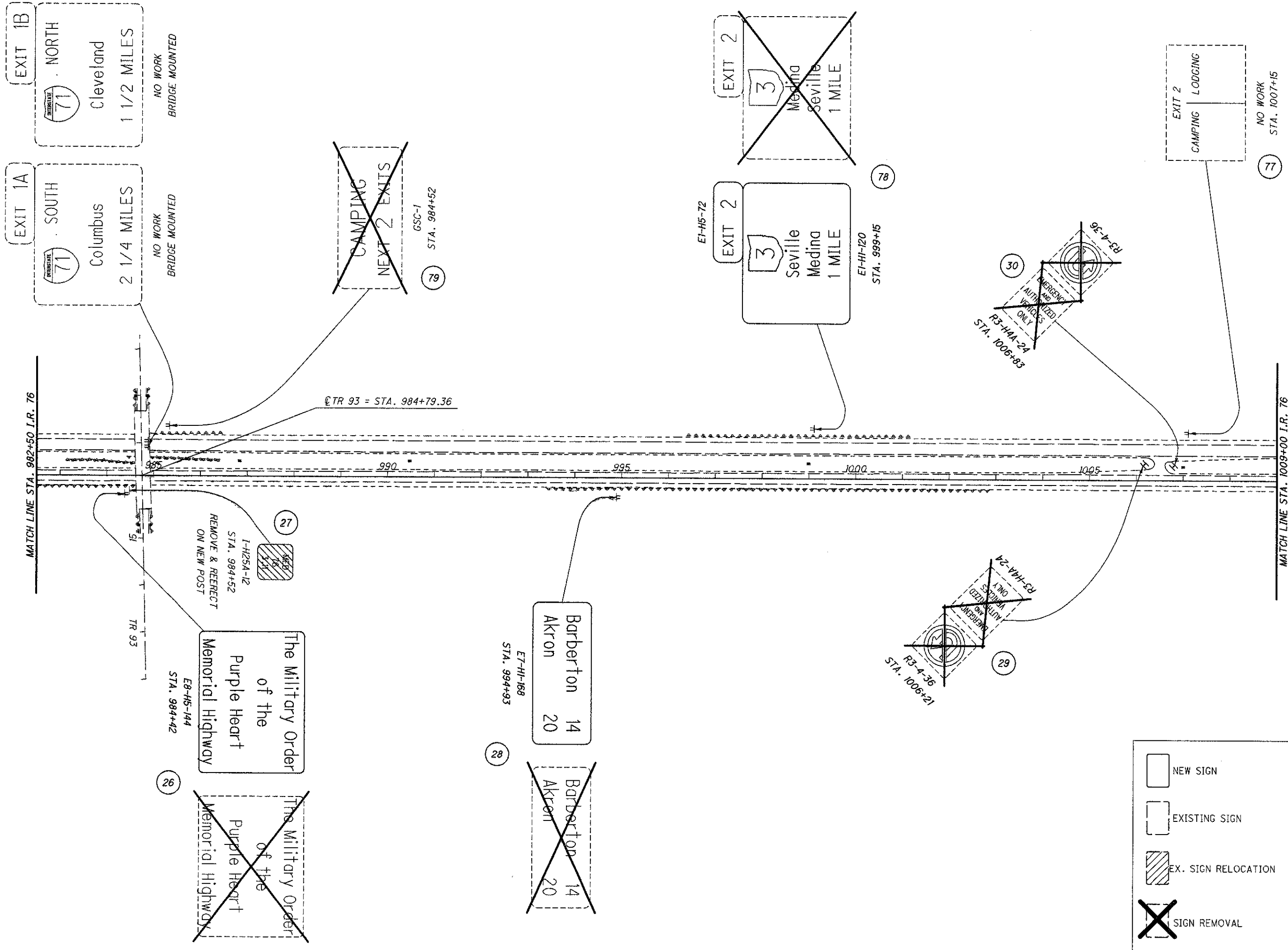
MATCH LINE STA. 956+00 I.R. 76



REMOVE & REERECT  
ON NEW POST



MATCH LINE STA. 982+50 I.R. 76

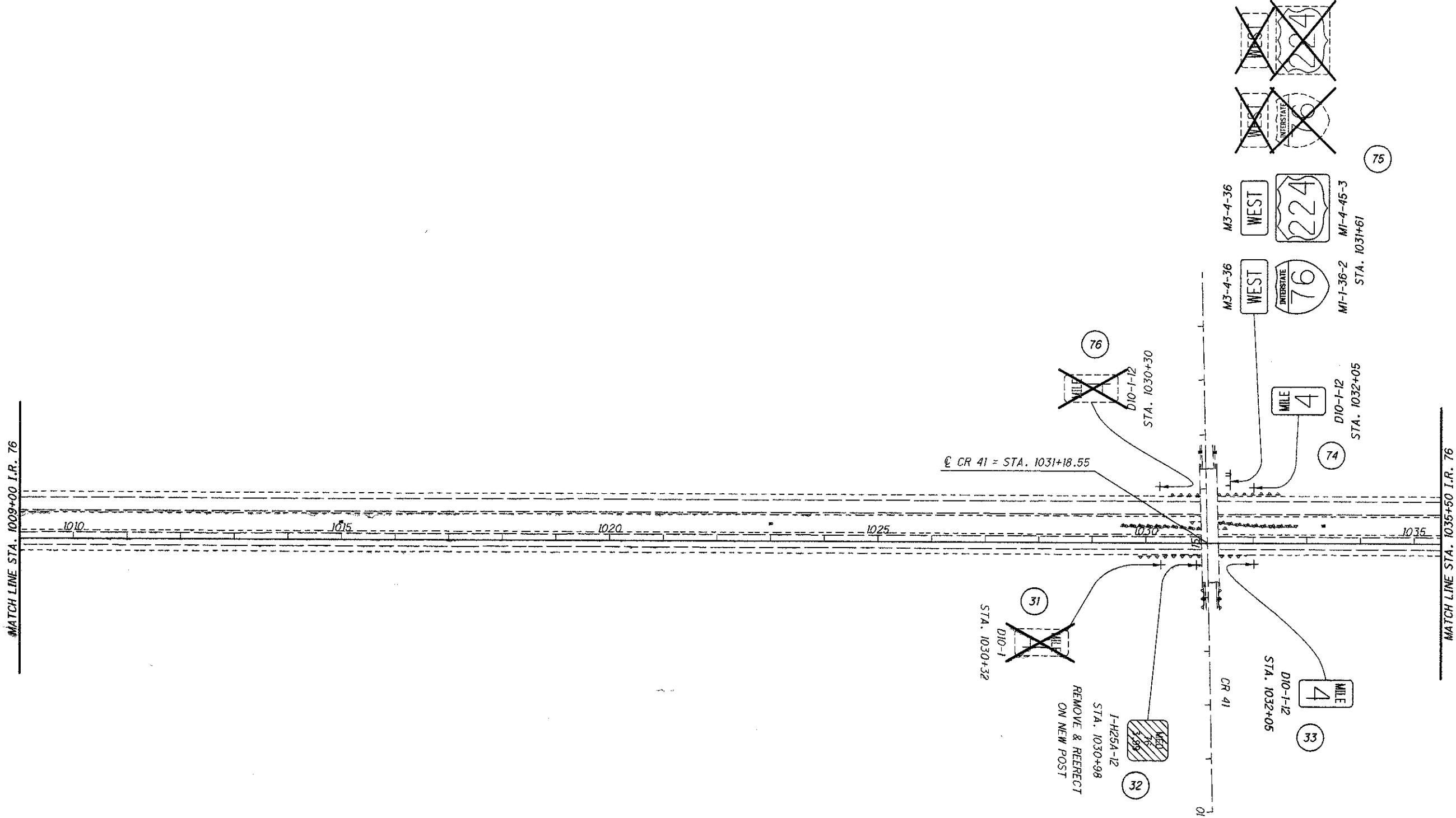


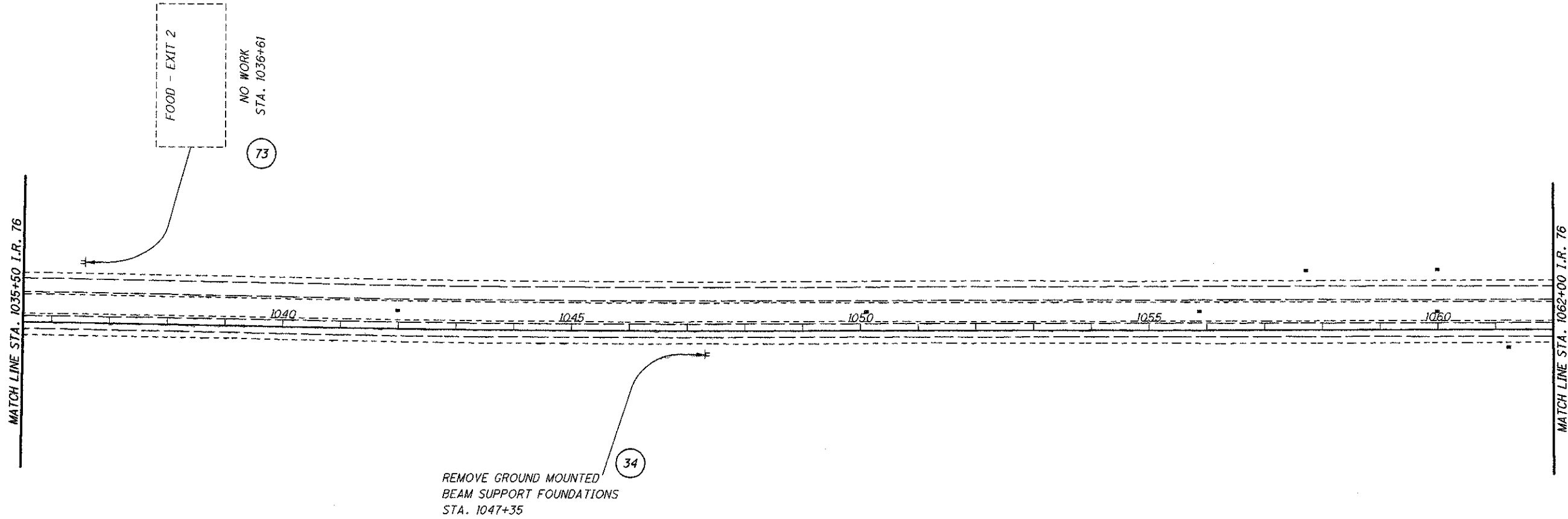
NEW SIGN

EXISTING SIGN

EX. SIGN RELOCATION

SIGN REMOVAL





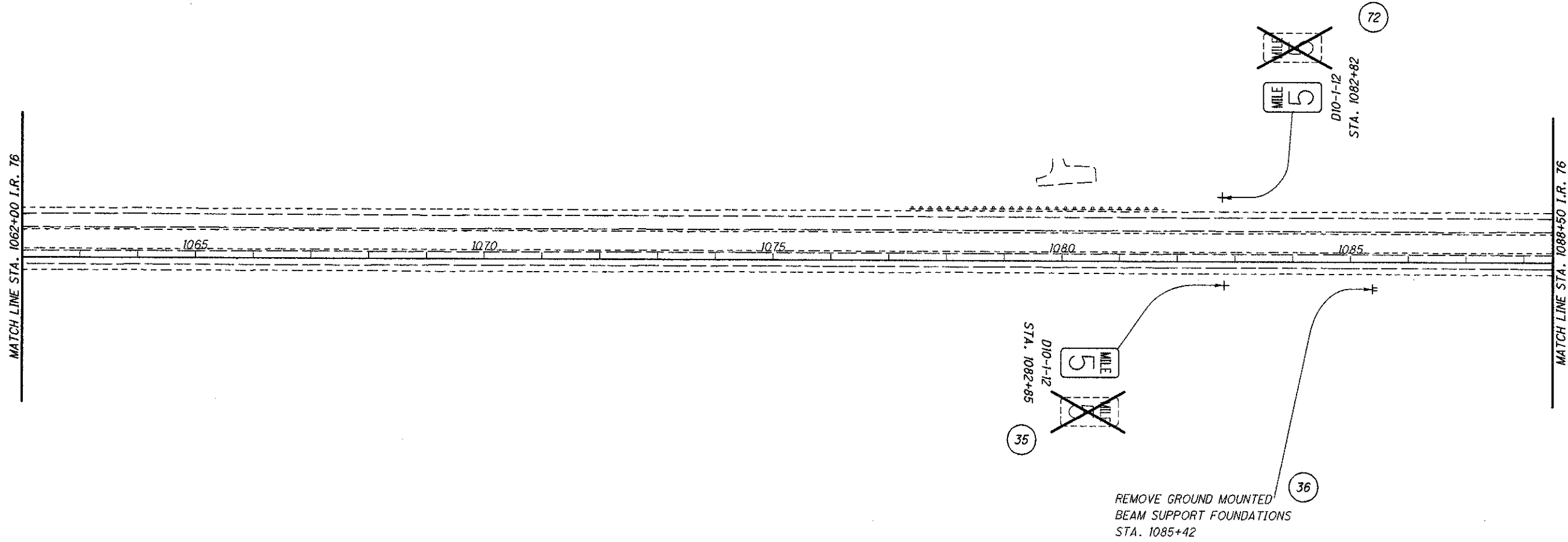
|  |                     |
|--|---------------------|
|  | NEW SIGN            |
|  | EXISTING SIGN       |
|  | EX. SIGN RELOCATION |
|  | SIGN REMOVAL        |

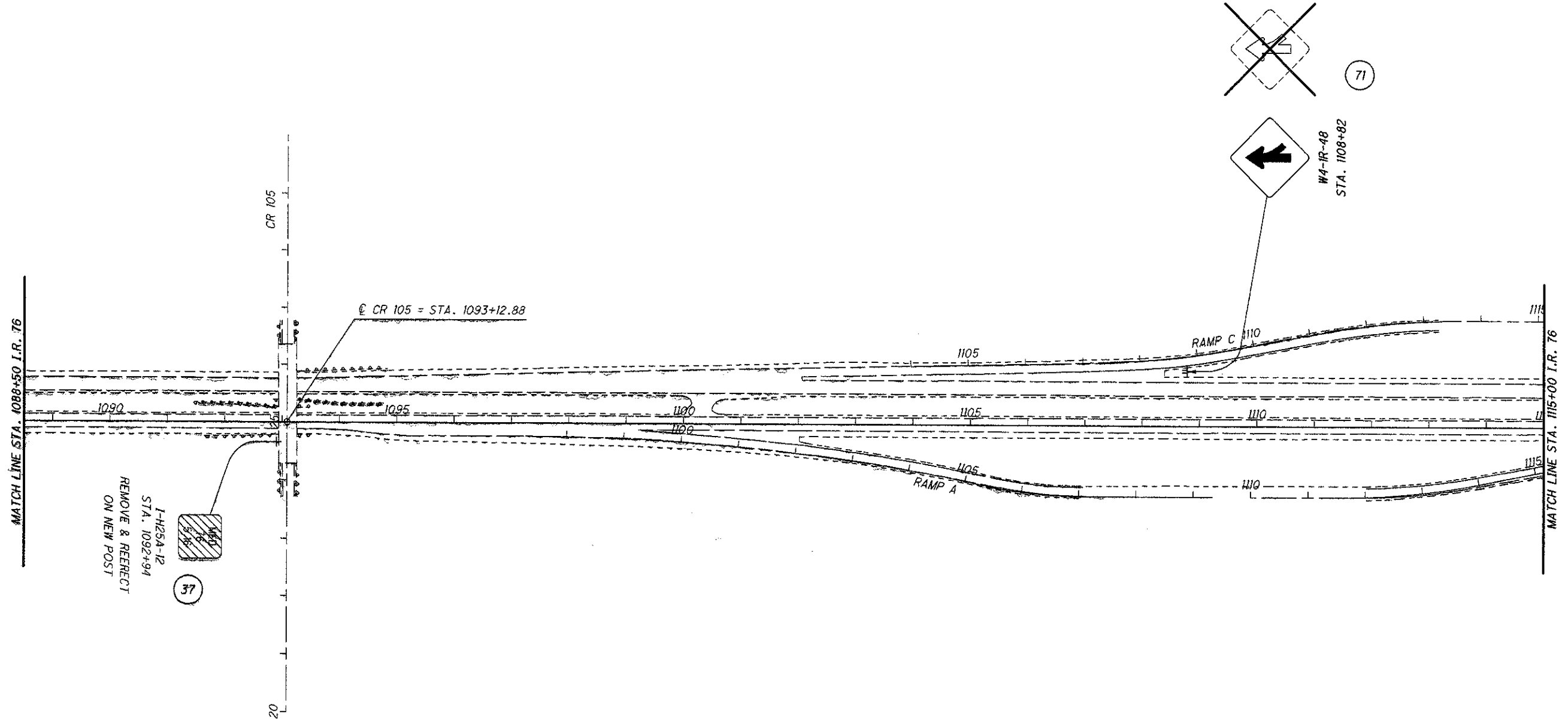
NEW SIGN

EXISTING SIGN

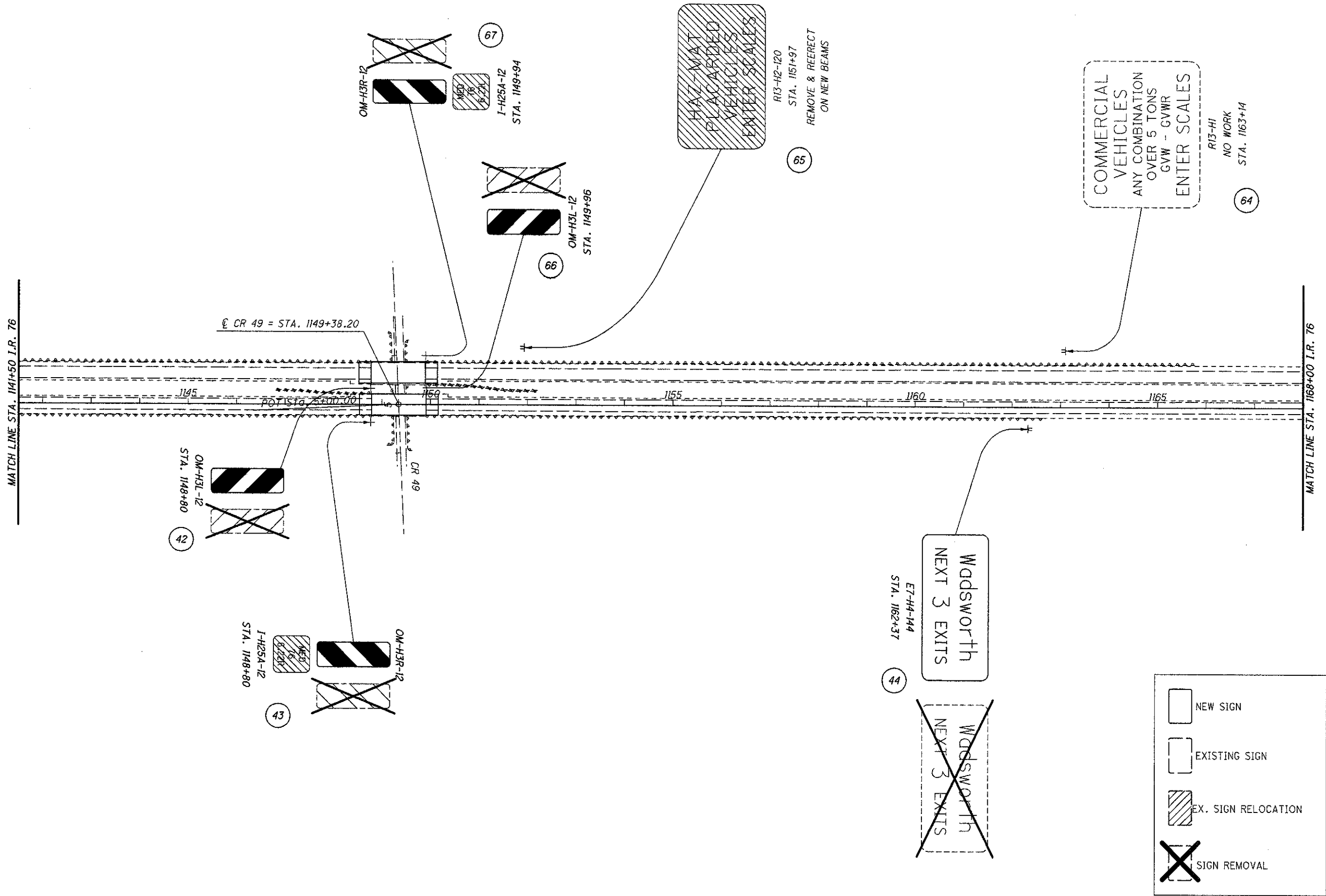
EX. SIGN RELOCATION

SIGN REMOVAL



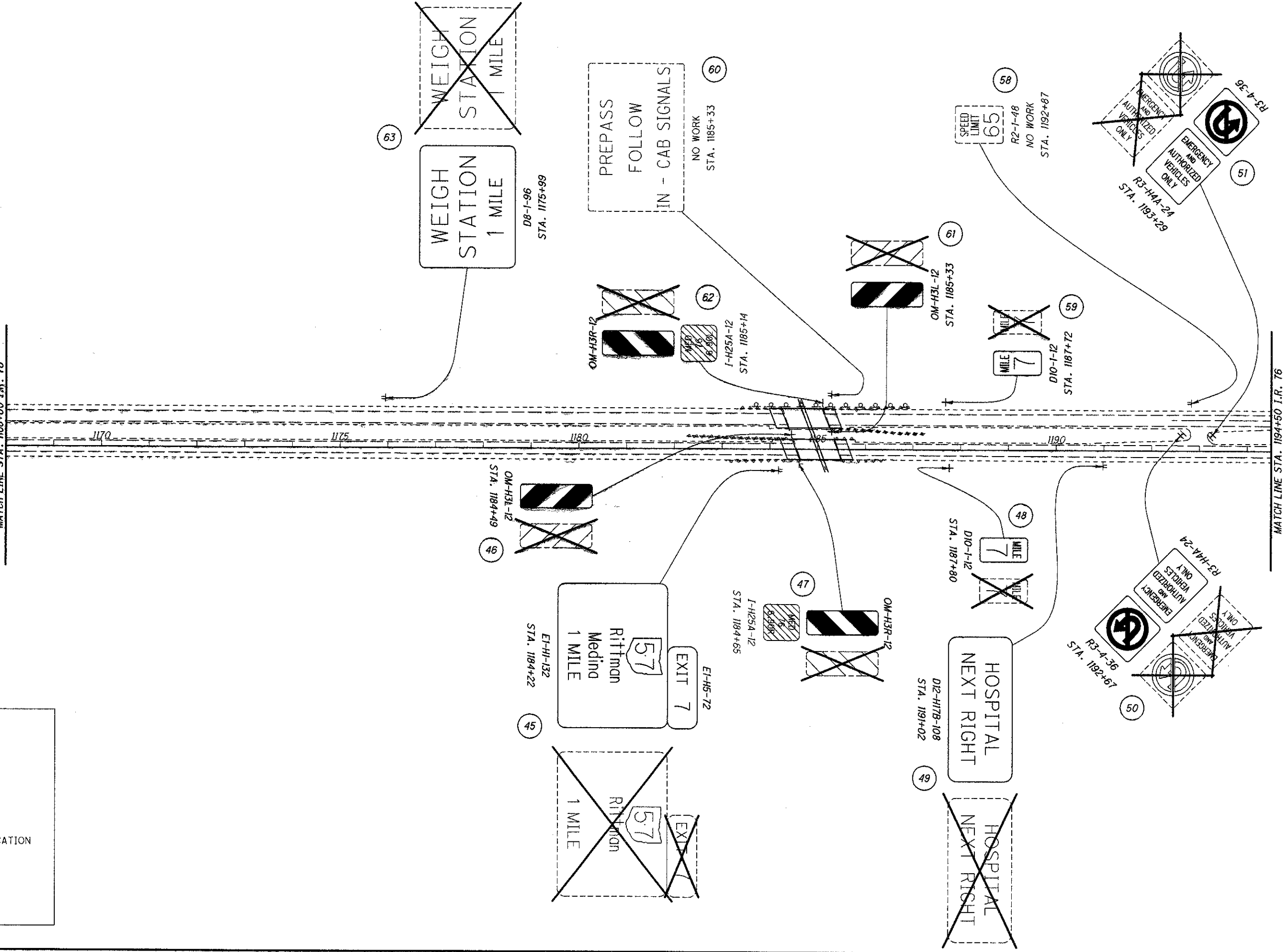


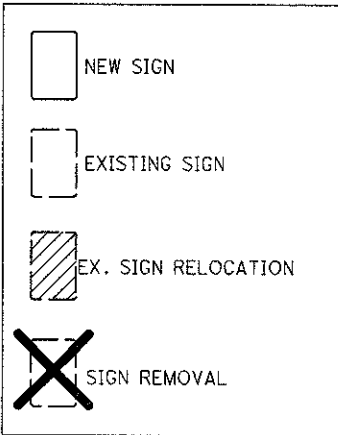


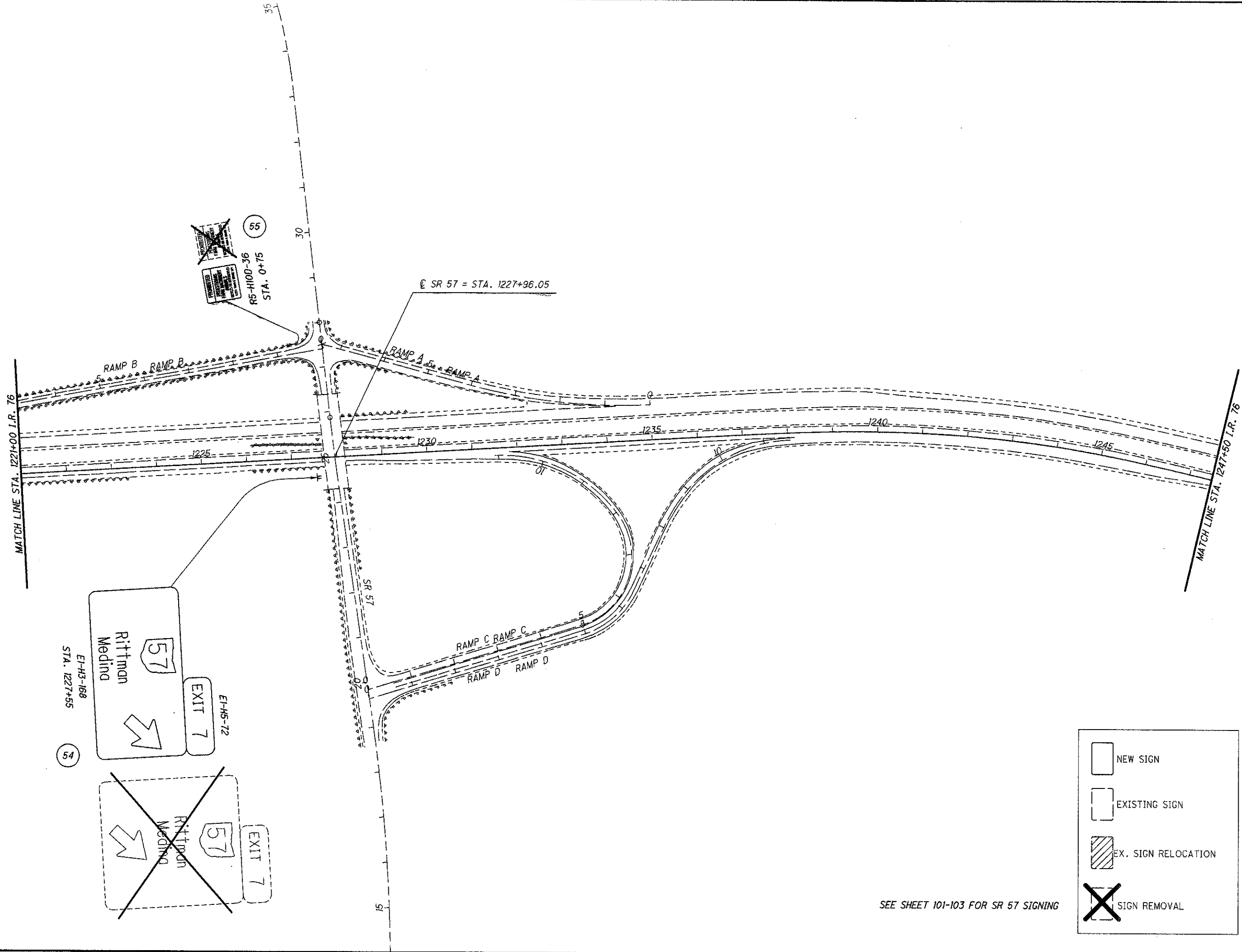


NEW SIGN  
EXISTING SIGN  
EX. SIGN RELOCATION  
SIGN REMOVAL

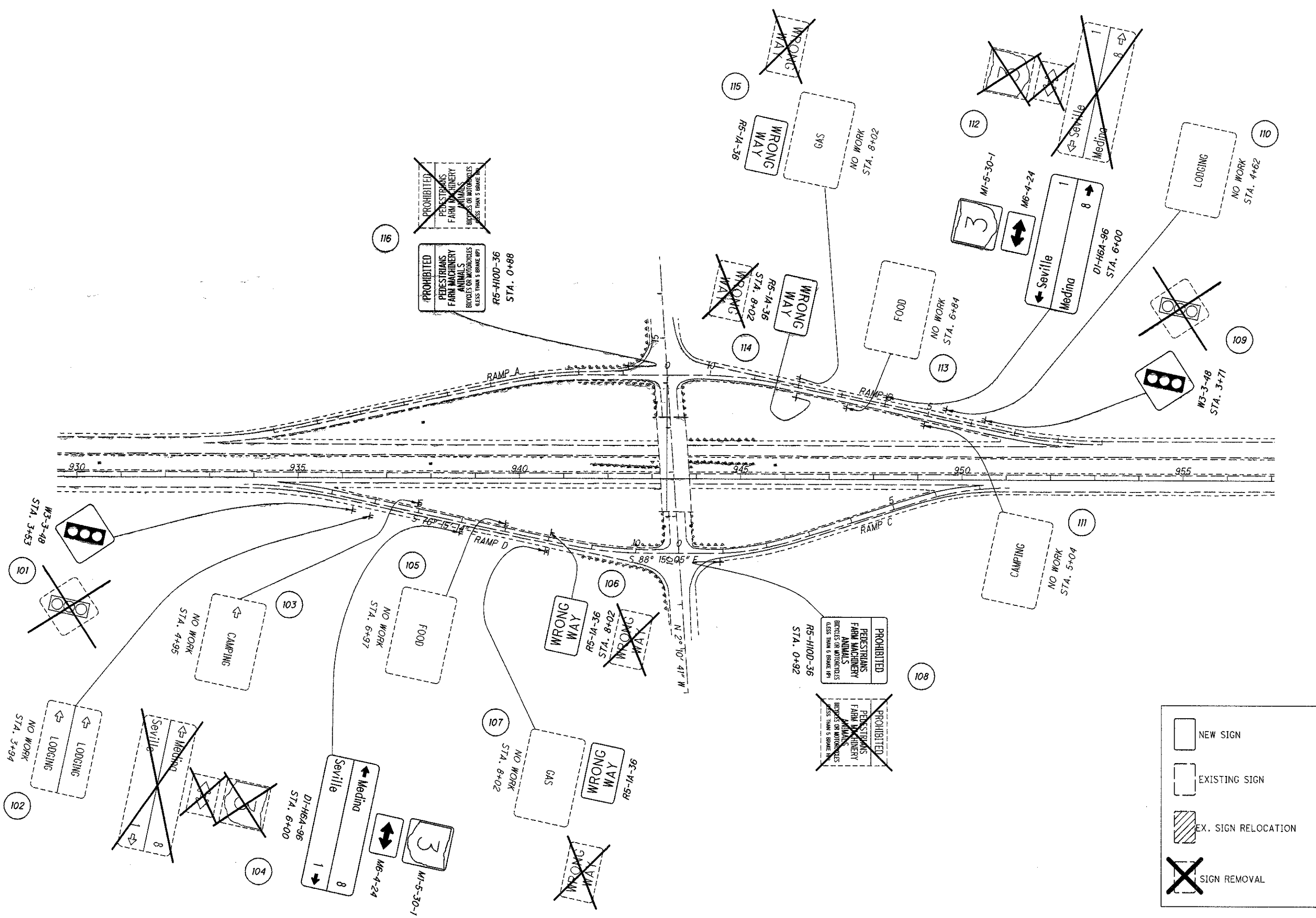
MATCH LINE STA. 1168+00 I.R. 76

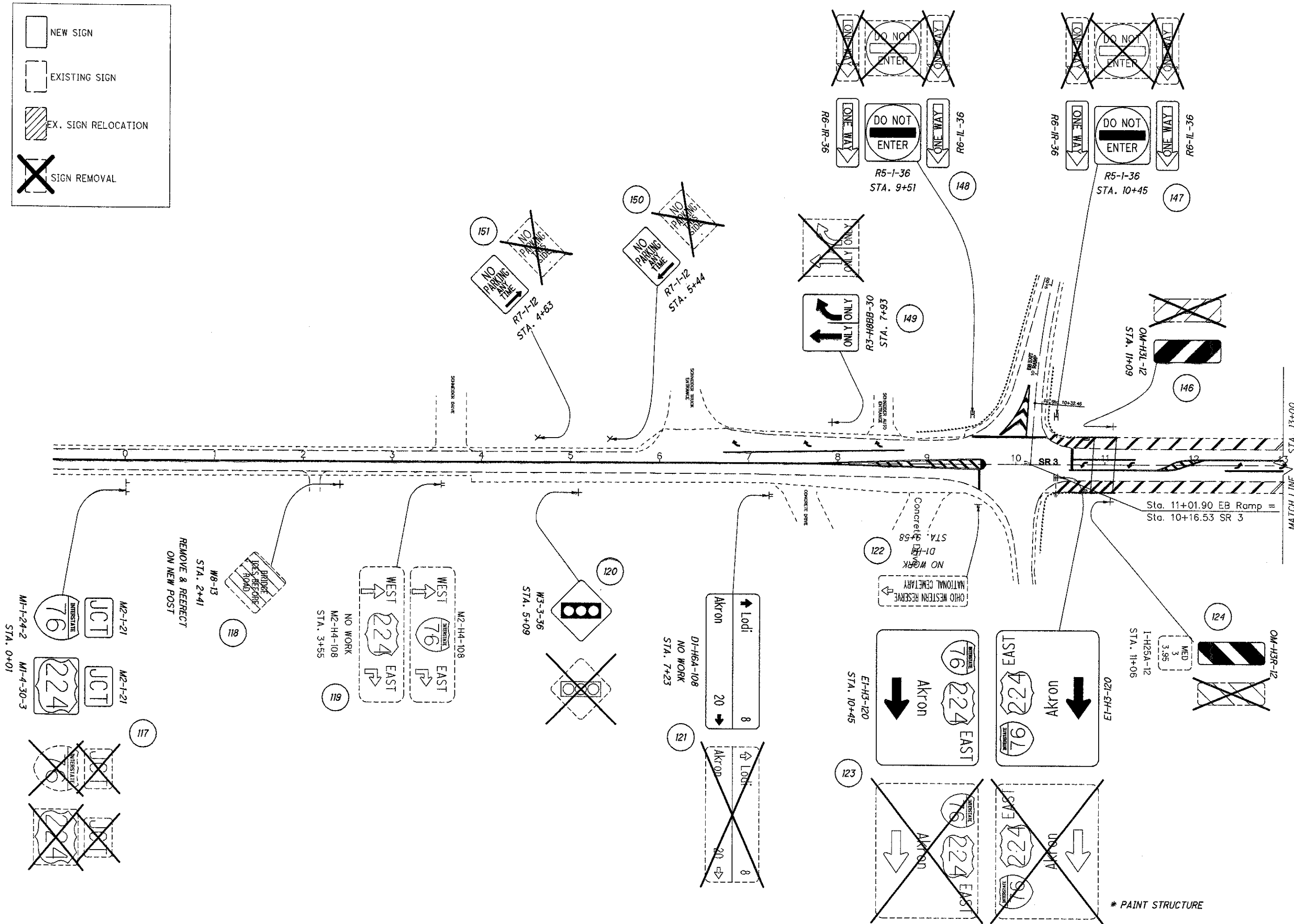






SEE SHEET 101-103 FOR SR 57 SIGNING





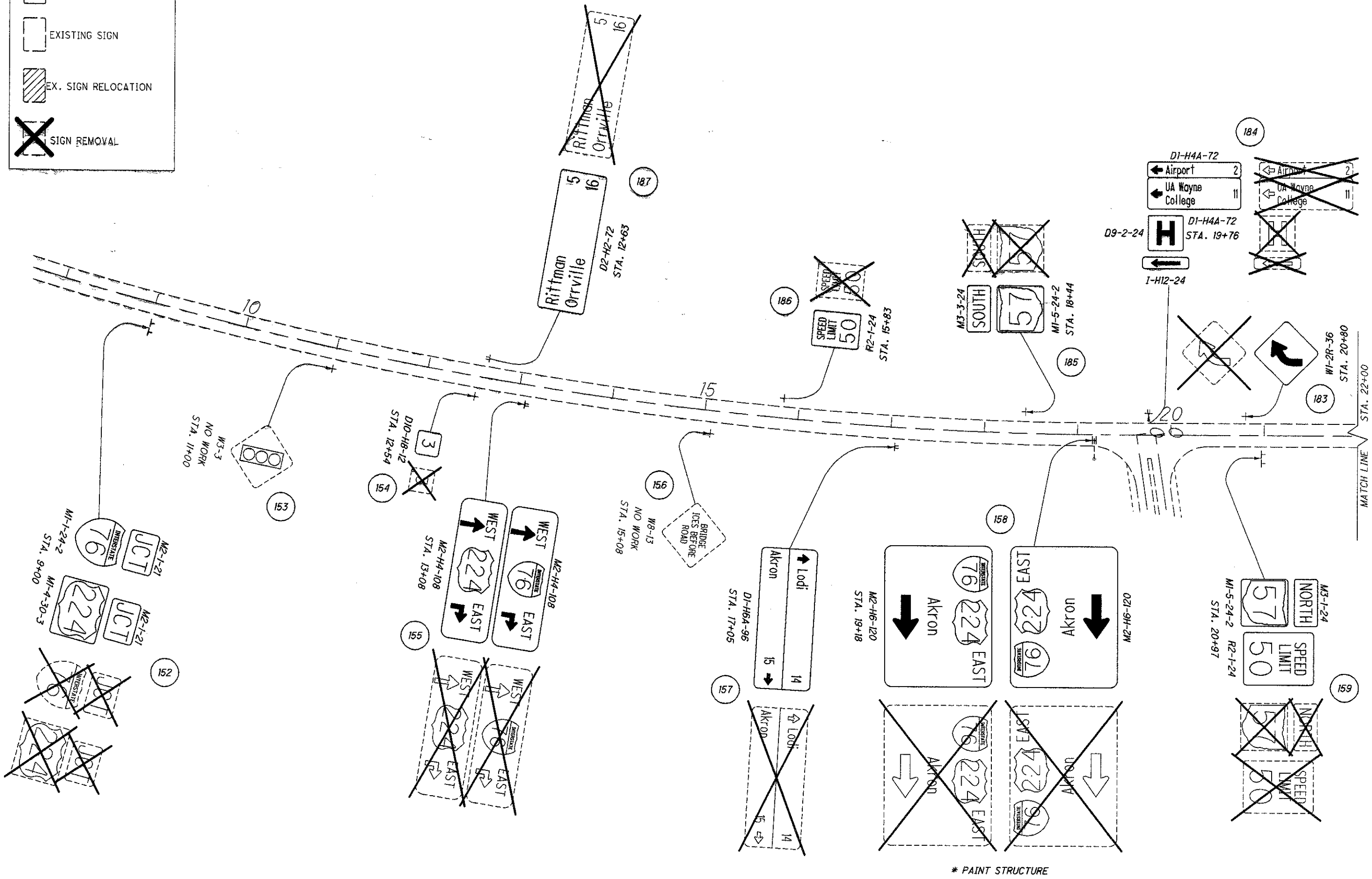


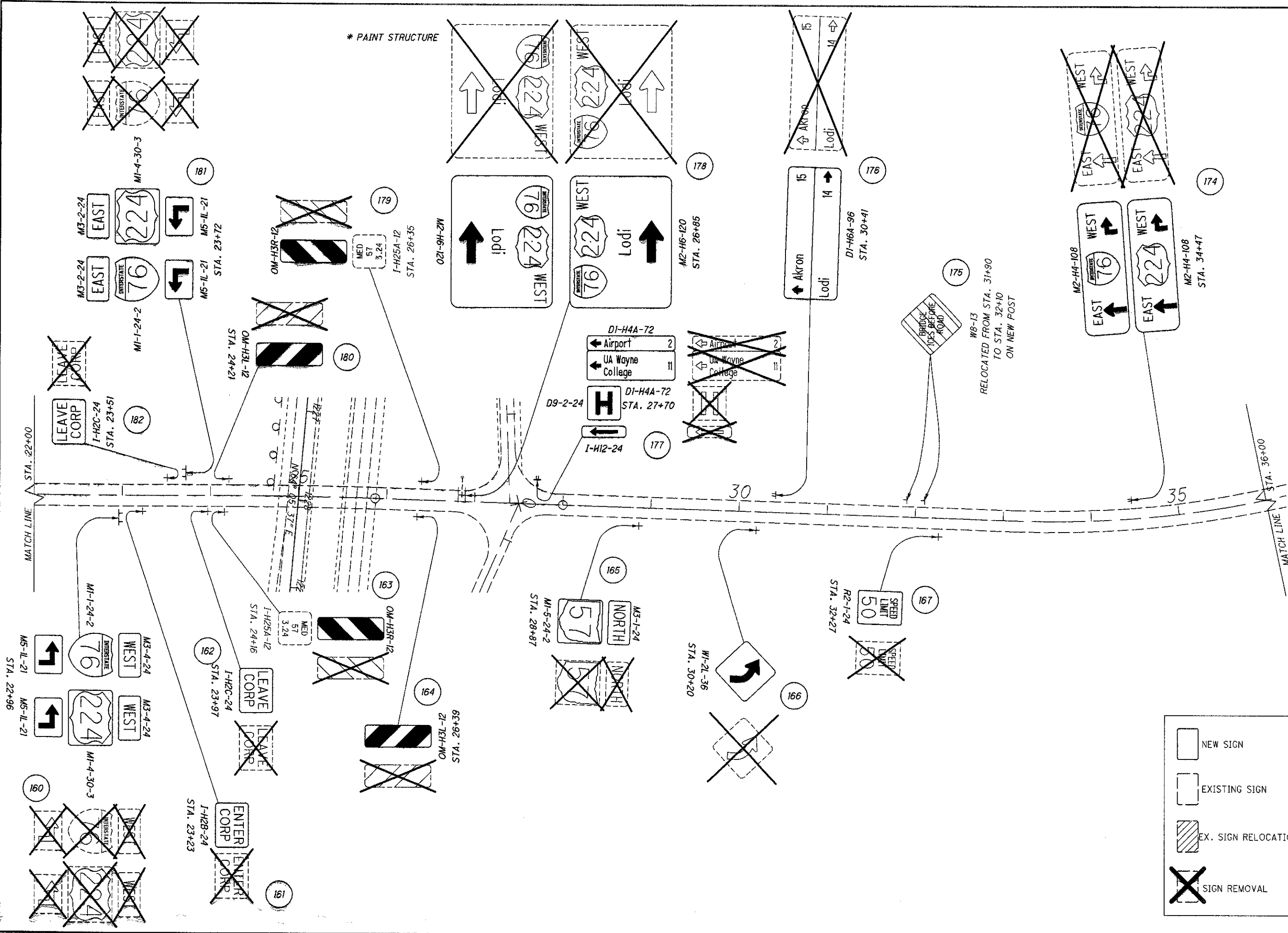
NEW SIGN

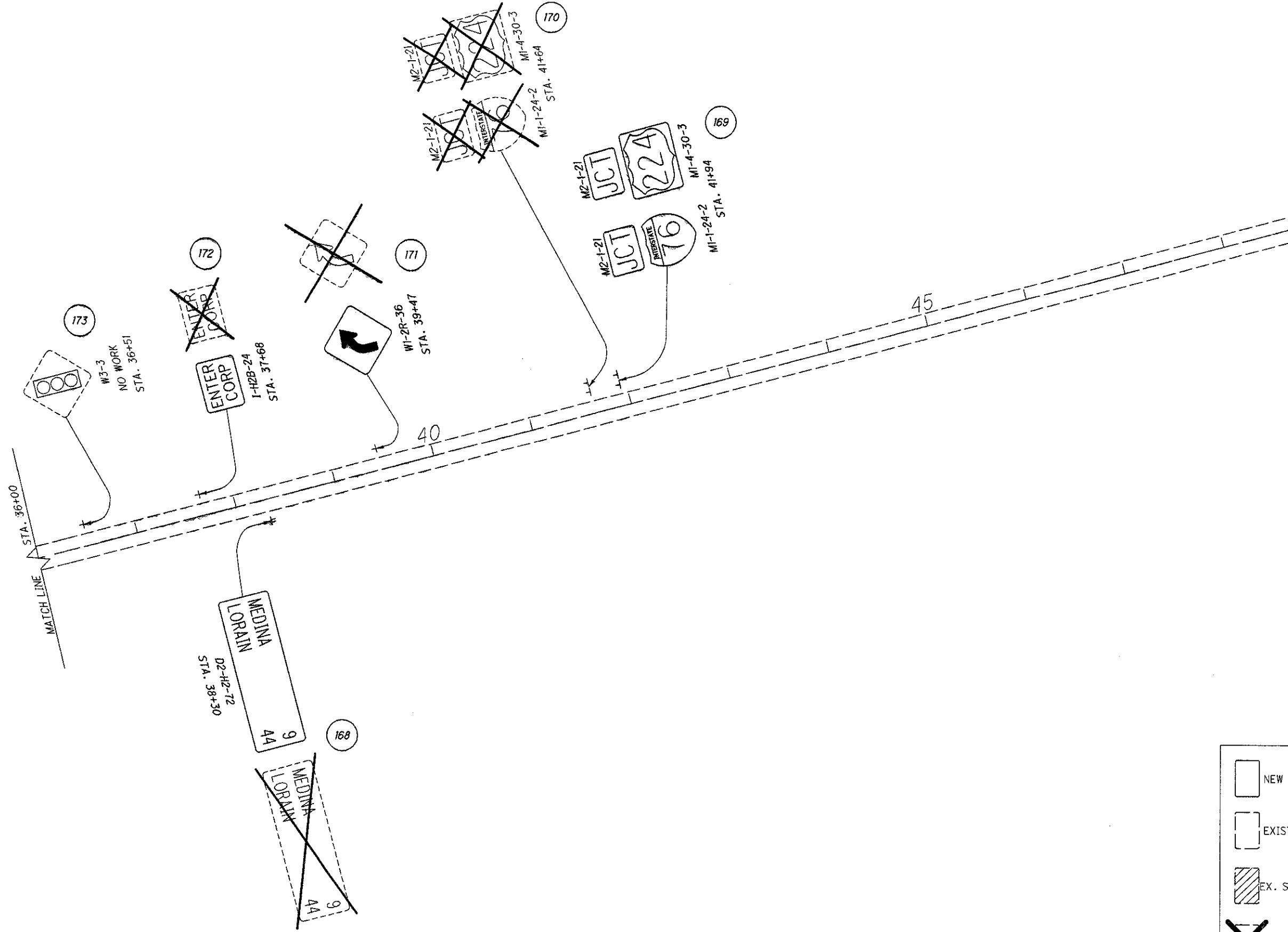
EXISTING SIGN

EX. SIGN RELOCATION

SIGN REMOVAL





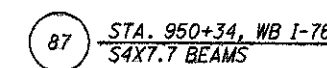
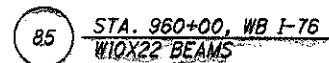
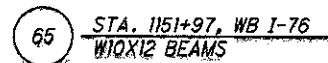
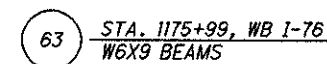
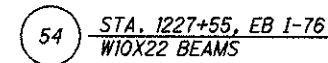
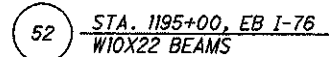
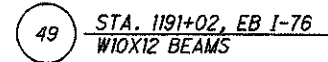
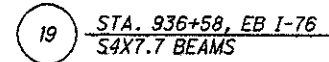
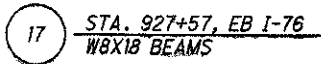


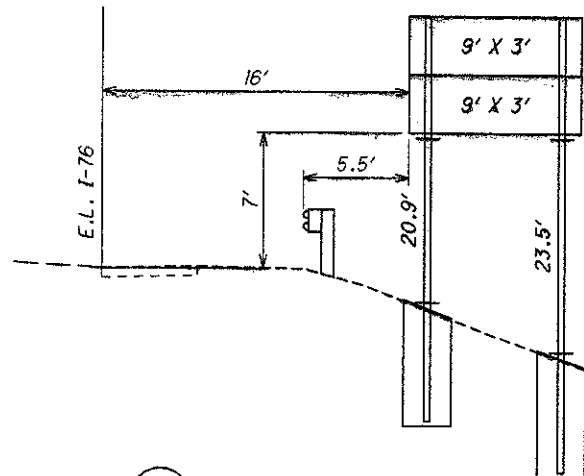
NEW SIGN

EXISTING SIGN

EX. SIGN RELOCATION

SIGN REMOVAL





155 STA. 13+08, NB SR 57  
W10X12 BEAMS

105  
138

MED-76-0.61

ELEVATIONS

|                          |     |         |     |
|--------------------------|-----|---------|-----|
| CALCULATED               | EAS | CHECKED | RJR |
| 0                        | 2.5 | 10      |     |
| HORIZONTAL SCALE IN FEET |     |         |     |

| Plan Sheet Reference No. | Elevation Sheet No. | Sign Number | Location | Station      | Code Number                              | Sign Size (Inches)      | 630                       |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               | 630  |                       |                                       |                                        |                           |                      |                          |
|--------------------------|---------------------|-------------|----------|--------------|------------------------------------------|-------------------------|---------------------------|-----------------------------|------------|----------------------------------|-----------------------------------|---------------------------------------------|-------|------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------|--------------------|--------------------|--------------------|---------------|-------------|--------------|---------------|---------------|------|-----------------------|---------------------------------------|----------------------------------------|---------------------------|----------------------|--------------------------|
|                          |                     |             |          |              |                                          |                         | SIGNS                     |                             |            |                                  | Removal of Ground Mounted Support | Removal of Ground Mounted Sign and Disposal |       | Removal of Ground Mounted Beam Support and Disposal, As Per Plan | Removal of Ground Mounted Sign and Reerection | Removal of Overhead Mounted Sign and Disposal | GROUND MOUNTED SUPPORTS    |                    |                    |                    |               |             |              |               |               |      | Sign Backing Assembly | Sign Attachment Assembly, As Per Plan | Ground Mounted Beam Support Foundation | Breakaway Beam Connection | Sign Data Collection | Sign Post Reflector, Red |
|                          |                     |             |          |              |                                          |                         | Ground Mounted Extrusheet | Overhead Mounted Extrusheet | Flat Sheet | Flat Sheet, As Per Plan (Hinged) |                                   | Minor                                       | Major |                                                                  |                                               |                                               | One-Way No. 3, As Per Plan | No. 2, As Per Plan | No. 3, As Per Plan | No. 4, As Per Plan | S4 x 7.7 Beam | W6 x 9 Beam | W8 x 18 Beam | W10 x 12 Beam | W10 x 22 Beam |      |                       |                                       |                                        |                           |                      |                          |
|                          |                     |             |          |              |                                          |                         |                           |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               | Post |                       |                                       |                                        |                           |                      | Beam                     |
| 83                       |                     | 1           | I-76, EB | 872+97       | D10-1-12                                 | 12X24                   |                           |                             | 2.0        |                                  | 1                                 |                                             | 1     |                                                                  |                                               |                                               |                            | 11.5               |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 84                       |                     | 2           | I-76, EB | 878+90 (MED) | OM-H3L                                   | NO WORK                 |                           |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        |                           |                      |                          |
| 84                       |                     | 3           | I-76, EB | 879+25       | OM-H3R I-H25a                            | NO WORK NO WORK         |                           |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        |                           |                      |                          |
| 84                       |                     | 4           | I-76, EB | 883+00       | R2-1                                     | NO WORK                 |                           |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        |                           |                      |                          |
| 84                       |                     | 5           | I-76, EB | 886+00       | W8-13                                    | NO WORK                 |                           |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        |                           |                      |                          |
| 84                       |                     | 6           | I-76, EB | 888+93       | LOGO SIGN                                | NO WORK                 |                           |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        |                           |                      |                          |
| 84                       |                     | 9           | I-76, EB | 892+00       | E1-H5 E1-1                               | NO WORK NO WORK         |                           |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        |                           |                      |                          |
| 84                       |                     | 10          | I-76, EB | 896+87       | LOGO SIGN                                | NO WORK                 |                           |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        |                           |                      |                          |
| 84                       |                     | 11          | I-76, EB | 902+00       | E3-H1-264                                | 264X84                  | 154.0                     |                             |            |                                  |                                   |                                             | 1     |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 85                       |                     | 12          | I-76, EB | 903+73 (MED) | OM-H3L-12                                | 12X36                   |                           |                             | 3.0        |                                  |                                   |                                             | 1     |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 85                       |                     | 13          | I-76, EB | 903+75       | OM-H3R-12 I-H25a                         | 12X36 NO WORK           |                           |                             | 3.0        |                                  |                                   |                                             | 1     |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 85                       |                     | 14          | I-76, EB | 909+18       | E1-H5-72 E1-H1-120                       | 72X24 120X144           | 12.0 120.0                |                             |            |                                  |                                   |                                             | 1     | 1                                                                |                                               |                                               |                            |                    |                    |                    |               |             | 2            |               |               |      |                       |                                       |                                        | 4                         |                      |                          |
| 85                       |                     | 14A         | I-76, EB | 912+58 (MED) | R3-4-36 R3-H4a-24                        | 36X36 24X30             |                           |                             | 9.0 5.0    |                                  |                                   |                                             |       |                                                                  |                                               |                                               | 13.5                       |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 85                       |                     | 14B         | I-76, EB | 913+32 (MED) | R3-4-36 R3-H4a-24                        | 36X36 24X30             |                           |                             | 9.0 5.0    |                                  |                                   |                                             |       |                                                                  |                                               |                                               | 13.5                       |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 85                       |                     | 15          | I-76, EB | 917+15       | LOGO                                     | NO WORK                 |                           |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        |                           |                      |                          |
| 85                       |                     | 16          | I-76, EB | 925+15       | D10-1-12                                 | 12X24                   |                           |                             | 2.0        |                                  | 1                                 |                                             | 1     |                                                                  |                                               |                                               | 11.5                       |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 85                       | 104                 | 17          | I-76, EB | 927+57       | E1-H5-72 E1-H3-156                       | 72X24 156X120           | 12.0 130.0                |                             |            |                                  |                                   | 2                                           | 1     | 1                                                                |                                               |                                               |                            |                    |                    |                    |               |             | 2            |               |               | 2    | 2                     |                                       |                                        | 4                         |                      |                          |
| 86                       |                     | 18          | I-76, EB | 936+40       | E6-H1a                                   |                         |                           |                             |            |                                  |                                   | 2                                           |       | 1                                                                |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 1                         |                      |                          |
| 86                       | 104                 | 19          | I-76, EB | 936+58       | E5-H1a-72                                | 72X60                   | 30.0                      |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               | 16.4                       | 16.3               |                    |                    |               |             |              |               |               |      | 2                     | 2                                     |                                        | 1                         |                      |                          |
| 86                       |                     | 20          | I-76, EB | 948+29       | W4-1R-48                                 | 48X48                   |                           |                             | 16.0       |                                  | 2                                 |                                             | 1     |                                                                  |                                               |                                               | 16.0                       | 16.0               |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 87                       |                     | 21          | I-76, EB | 970+03       | M3-2-36 (BL) M1-1-36-2 M3-2-36 M1-4-45-3 | 36X18 36X36 36X18 45X36 | 4.5 9.0 4.5 11.25         |                             |            |                                  | 1                                 |                                             | 4     |                                                                  |                                               |                                               | 15.0                       |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 8                         |                      |                          |
| 87                       |                     | 21A         | I-76, EB | 973+83 (MED) | R3-4-36 R3-H4a-24                        | 36X36 24X30             | 9.0 5.0                   |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               | 13.5                       |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 87                       |                     | 21B         | I-76, EB | 974+57 (MED) | R3-4-36 R3-H4a-24                        | 36X36 24X30             | 9.0 5.0                   |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               | 13.5                       |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 87                       |                     | 22          | I-76, EB | 976+99       | R2-1                                     | NO WORK                 |                           |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        |                           |                      |                          |
| 87                       |                     | 23          | I-76, EB | 977+65       | D10-1-12                                 | 12X24                   |                           |                             | 2.0        |                                  |                                   |                                             | 1     |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 87                       |                     | 24          | I-76, EB | 978+18 (MED) | OM-H3L                                   |                         |                           |                             |            |                                  | 1                                 |                                             | 1     |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 1                         |                      |                          |
| 87                       |                     | 25          | I-76, EB | 978+18       | OM-H3R I-H25a-12                         |                         |                           |                             |            |                                  | 1                                 |                                             | 1     |                                                                  |                                               |                                               | 11.0                       |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| 88                       |                     | 26          | I-76, EB | 984+42       | E8-H5                                    | NO WORK                 |                           |                             |            |                                  |                                   |                                             |       |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        |                           |                      |                          |
| 88                       |                     | 27          | I-76, EB | 984+52       | I-H25a-12                                |                         |                           |                             |            |                                  | 1                                 |                                             |       |                                                                  |                                               |                                               | 11.0                       |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 1                         |                      |                          |
| 88                       |                     | 28          | I-76, EB | 994+93       | E7-H1-168                                | 168X60                  | 70.0                      |                             |            |                                  |                                   |                                             | 1     |                                                                  |                                               |                                               |                            |                    |                    |                    |               |             |              |               |               |      |                       |                                       |                                        | 2                         |                      |                          |
| SUBTOTALS                |                     |             |          |              |                                          |                         | 528.0                     |                             | 113.3      |                                  | 9                                 | 4                                           | 14    | 5                                                                |                                               | 2                                             |                            | 45.0               | 117.5              | 15.0               | 32.7          |             |              | 42.3          |               | 4    |                       | 4                                     | 4                                      | 46                        |                      |                          |

SIGN SUB-SUMMARY - REFERENCE NUMBERS

MED-76-0.61

106 138

CALC BY EAS  
CHK'D BY CVH

| Plan Sheet Reference No. | Elevation Sheet No. | Sign Number | Location      | Station       | Code Number            | Sign Size (Inches) | 630                       |                             |            |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |   |      |      |      |  |  |  |      |      | 630 |                       |                                       |                                        |                           |                      |                          |      |      |       |
|--------------------------|---------------------|-------------|---------------|---------------|------------------------|--------------------|---------------------------|-----------------------------|------------|----------------------------------|-----------------------------------|---------------------------------------------|------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------|---|------|------|------|--|--|--|------|------|-----|-----------------------|---------------------------------------|----------------------------------------|---------------------------|----------------------|--------------------------|------|------|-------|
|                          |                     |             |               |               |                        |                    | SIGNS                     |                             |            |                                  | Removal of Ground Mounted Support | Removal of Ground Mounted Sign and Disposal | Removal of Ground Mounted Beam Support and Disposal, As Per Plan | Removal of Ground Mounted Sign and Reerection | Removal of Overhead Mounted Sign and Disposal | GROUND MOUNTED SUPPORTS |   |      |      |      |  |  |  |      |      |     | Sign Backing Assembly | Sign Attachment Assembly, As Per Plan | Ground Mounted Beam Support Foundation | Breakaway Beam Connection | Sign Data Collection | Sign Post Reflector, Red |      |      |       |
|                          |                     |             |               |               |                        |                    | Ground Mounted Extrusheet | Overhead Mounted Extrusheet | Flat Sheet | Flat Sheet, As Per Plan (Hinged) |                                   |                                             |                                                                  |                                               |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        |                           |                      |                          | Post | Beam | Minor |
|                          |                     |             |               |               |                        |                    |                           |                             |            |                                  |                                   |                                             |                                                                  |                                               |                                               | SQ FT                   |   |      |      | EACH |  |  |  | FOOT |      |     |                       |                                       |                                        |                           |                      |                          |      |      |       |
| 88                       |                     | 29          | I-76, EB      | 1006+21 (MED) | R3-4-36<br>R3-H4a-24   |                    |                           |                             |            |                                  | 1                                 |                                             | 2                                                                |                                               |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        | 2                         |                      |                          |      |      |       |
| 88                       |                     | 30          | I-76, EB      | 1006+83 (MED) | R3-4-36<br>R3-H4a-24   |                    |                           |                             |            |                                  | 1                                 |                                             | 2                                                                |                                               |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        | 2                         |                      |                          |      |      |       |
| 89                       |                     | 31          | I-76, EB      | 1030+32       | D10-1                  |                    |                           |                             |            |                                  | 1                                 |                                             | 1                                                                |                                               |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        | 1                         |                      |                          |      |      |       |
| 89                       |                     | 32          | I-76, EB      | 1030+98       | I-H25a-12              |                    |                           |                             |            |                                  | 1                                 |                                             |                                                                  |                                               |                                               |                         |   | 11.0 |      |      |  |  |  |      |      |     |                       |                                       |                                        | 1                         |                      |                          |      |      |       |
| 89                       |                     | 33          | I-76, EB      | 1032+05       | D10-1-12               | 12X24              |                           |                             | 2.0        |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |   | 11.5 |      |      |  |  |  |      |      |     |                       |                                       |                                        | 1                         |                      |                          |      |      |       |
| 90                       |                     | 34          | I-76, EB      | 1047+35       | FOUNDATIONS            |                    |                           |                             |            |                                  |                                   | 2                                           |                                                                  |                                               |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        |                           |                      |                          |      |      |       |
| 91                       |                     | 35          | I-76, EB      | 1082+85       | D10-1-12               | 12X24              |                           |                             | 2.0        |                                  | 1                                 |                                             | 1                                                                |                                               |                                               |                         |   | 11.5 |      |      |  |  |  |      |      |     |                       |                                       |                                        | 2                         |                      |                          |      |      |       |
| 91                       |                     | 36          | I-76, EB      | 1085+42       | FOUNDATIONS            |                    |                           |                             |            |                                  |                                   | 2                                           |                                                                  |                                               |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        |                           |                      |                          |      |      |       |
| 92                       |                     | 37          | I-76, EB      | 1092+94       | I-H25a-12              |                    |                           |                             |            |                                  | 1                                 |                                             |                                                                  |                                               |                                               |                         |   | 11.0 |      |      |  |  |  |      |      |     |                       |                                       |                                        | 1                         |                      |                          |      |      |       |
| 93                       |                     | 38          | I-76, EB      | 1116+08       | W4-1R                  |                    |                           |                             |            |                                  | 2                                 |                                             | 1                                                                |                                               |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        | 1                         |                      |                          |      |      |       |
| 93                       |                     | 39          | I-76, EB      | 1124+80 (MED) | R3-4-36<br>R3-H4a-24   | 36X36<br>24X30     |                           |                             | 9.0<br>5.0 |                                  | 1                                 |                                             | 2                                                                |                                               |                                               |                         |   |      | 13.5 |      |  |  |  |      |      |     |                       |                                       |                                        |                           | 4                    |                          |      |      |       |
| 93                       |                     | 40          | I-76, EB      | 1125+42 (MED) | R3-4-36<br>R3-H4a-24   | 36X36<br>24X30     |                           |                             | 9.0<br>5.0 |                                  | 1                                 |                                             | 2                                                                |                                               |                                               |                         |   |      | 13.5 |      |  |  |  |      |      |     |                       |                                       |                                        |                           | 4                    |                          |      |      |       |
| 93                       |                     | 41          | I-76, EB      | 1135+23       | D10-1-12               | 12X24              |                           |                             | 2.0        |                                  |                                   |                                             | 1                                                                |                                               |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        | 2                         |                      |                          |      |      |       |
| 94                       |                     | 42          | I-76, EB      | 1148+80 (MED) | OM-H3L-12              | 12X36              |                           |                             | 3.0        |                                  |                                   |                                             | 1                                                                |                                               |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        | 2                         |                      |                          |      |      |       |
| 94                       |                     | 43          | I-76, EB      | 1148+80       | OM-H3R-12<br>I-H25a-12 | 12X36              |                           |                             | 3.0        |                                  |                                   |                                             | 1                                                                |                                               |                                               |                         | 1 |      |      |      |  |  |  |      |      |     |                       |                                       |                                        | 3                         |                      |                          |      |      |       |
| 94                       |                     | 44          | I-76, EB      | 1162+37       | E7-H4-144              | 144X60             | 60.0                      |                             |            |                                  |                                   |                                             |                                                                  | 1                                             |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        | 2                         |                      |                          |      |      |       |
| 95                       |                     | 45          | I-76, EB      | 1184+22       | E1-H5-72<br>E1-H1-132  | 72X24<br>132X144   | 12.0<br>132.0             |                             |            |                                  |                                   |                                             | 1                                                                |                                               | 1                                             |                         |   |      |      |      |  |  |  | 2    |      |     |                       |                                       |                                        | 4                         |                      |                          |      |      |       |
| 95                       |                     | 46          | I-76, EB      | 1184+49 (MED) | OM-H3L-12              | 12X36              |                           |                             | 3.0        |                                  |                                   |                                             | 1                                                                |                                               |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        | 2                         |                      |                          |      |      |       |
| 95                       |                     | 47          | I-76, EB      | 1184+65       | OM-H3R-12<br>I-H25a-12 | 12X36              |                           |                             | 3.0        |                                  |                                   |                                             | 1                                                                |                                               |                                               |                         | 1 |      |      |      |  |  |  |      |      |     |                       |                                       |                                        | 3                         |                      |                          |      |      |       |
| 95                       |                     | 48          | I-76, EB      | 1187+80       | D10-1-12               | 12X24              |                           |                             | 2.0        |                                  | 1                                 |                                             | 1                                                                |                                               |                                               |                         |   | 11.5 |      |      |  |  |  |      |      |     |                       |                                       |                                        | 2                         |                      |                          |      |      |       |
| 95                       | 104                 | 49          | I-76, EB      | 1191+02       | D12-H17b-108           | 108X48             | 36.0                      |                             |            |                                  |                                   | 2                                           |                                                                  | 1                                             |                                               |                         |   |      |      |      |  |  |  | 22.4 | 24.3 |     |                       | 2                                     | 2                                      | 2                         |                      |                          |      |      |       |
| 95                       |                     | 50          | I-76, EB      | 1192+67 (MED) | R3-4-36<br>R3-H4a-24   | 36X36<br>24X30     |                           |                             | 9.0<br>5.0 |                                  | 1                                 |                                             | 2                                                                |                                               |                                               |                         |   |      | 13.5 |      |  |  |  |      |      |     |                       |                                       |                                        |                           | 4                    |                          |      |      |       |
| 95                       |                     | 51          | I-76, EB      | 1193+29 (MED) | R3-4-36<br>R3-H4a-24   | 36X36<br>24X30     |                           |                             | 9.0<br>5.0 |                                  | 1                                 |                                             | 2                                                                |                                               |                                               |                         |   |      | 13.5 |      |  |  |  |      |      |     |                       |                                       |                                        |                           | 4                    |                          |      |      |       |
| 96                       | 104                 | 52          | I-76, EB      | 1195+00       | E1-H5-72<br>E3-H1-192  | 72X24<br>192X96    | 12.0<br>128.0             |                             |            |                                  |                                   | 2                                           |                                                                  | 1                                             |                                               | 1                       |   |      |      |      |  |  |  | 24.8 | 24.4 | 2   |                       |                                       | 2                                      | 2                         | 4                    |                          |      |      |       |
| 96                       |                     | 53          | I-76, EB      | 1211+00       | E1-H5-72<br>E1-H1-132  | 72X24<br>132X144   | 12.0<br>132.0             |                             |            |                                  |                                   |                                             |                                                                  | 1                                             |                                               | 1                       |   |      |      |      |  |  |  |      | 2    |     |                       |                                       |                                        |                           | 4                    |                          |      |      |       |
| 97                       | 104                 | 54          | I-76, EB      | 1227+55       | E1-H5-72<br>E1-H3-168  | 72X24<br>168X120   | 12.0<br>140.0             |                             |            |                                  |                                   | 2                                           |                                                                  | 1                                             |                                               | 1                       |   |      |      |      |  |  |  | 26.8 | 23.5 | 2   |                       |                                       | 2                                      | 2                         | 4                    |                          |      |      |       |
| 97                       |                     | 55          | SR 57, RAMP B | 0+75          | R5-H10D-36             | 36X36              |                           |                             | 9.0        |                                  |                                   |                                             | 1                                                                |                                               |                                               |                         |   |      |      |      |  |  |  |      |      |     |                       |                                       |                                        | 2                         |                      |                          |      |      |       |
| 96                       |                     | 56          | I-76, WB      | 1219+92       | W4-1R-48               | 48X48              |                           |                             | 16.0       |                                  | 2                                 |                                             | 1                                                                |                                               |                                               |                         |   |      | 16.0 | 16.0 |  |  |  |      |      |     |                       |                                       |                                        | 2                         |                      |                          |      |      |       |
| SUBTOTALS                |                     |             |               |               |                        |                    | 676.0                     |                             | 101.0      |                                  | 15                                | 10                                          | 27                                                               | 6                                             |                                               | 4                       |   | 56.5 | 86.0 |      |  |  |  | 46.7 | 99.5 | 8   |                       |                                       | 6                                      | 6                         | 65                   |                          |      |      |       |

SIGN SUB-SUMMARY - REFERENCE NUMBERS

MED-76-0-61

107  
138

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SIGN SUB-SUMMARY - REFERENCE NUMBERS

MED-76-0.61

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CHK'D BY CVH

107  
138

| Plan Sheet Reference No. | Elevation Sheet No. | Sign Number | Location | Station       | Code Number                                     | Sign Size (Inches)               | 630                       |                             |                            |                                  |                                   |                                                 |                                  |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 630                       |                      |                          |
|--------------------------|---------------------|-------------|----------|---------------|-------------------------------------------------|----------------------------------|---------------------------|-----------------------------|----------------------------|----------------------------------|-----------------------------------|-------------------------------------------------|----------------------------------|------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------|------------|---------------------------|--------------------|--------------------|--------------------|---------------|-------------|--------------|------------------|-----------------------|---------------------------------------|----------------------------------------|---------------------------|----------------------|--------------------------|
|                          |                     |             |          |               |                                                 |                                  | SIGNS                     |                             |                            |                                  | Removal of Ground Mounted Support | Removal of Ground Mounted Sign and Disposal     |                                  | Removal of Ground Mounted Beam Support and Disposal, As Per Plan | Removal of Ground Mounted Sign and Reerection | Removal of Overhead Mounted Sign and Disposal | GROUND MOUNTED SUPPORTS |            |                           |                    |                    |                    |               |             |              |                  | Sign Backing Assembly | Sign Attachment Assembly, As Per Plan | Ground Mounted Beam Support Foundation | Breakaway Beam Connection | Sign Data Collection | Sign Post Reflector, Red |
|                          |                     |             |          |               |                                                 |                                  | Ground Mounted Extrusheet | Overhead Mounted Extrusheet | Flat Sheet                 | Flat Sheet, As Per Plan (Hinged) |                                   | Post                                            | Beam                             |                                                                  |                                               |                                               | Minor                   | Major      | One-Way No.3, As Per Plan | No. 2, As Per Plan | No. 3, As Per Plan | No. 4, As Per Plan | S4 x 7.7 Beam | W6 x 9 Beam | W8 x 18 Beam | W10 x 12 Beam    |                       |                                       |                                        |                           |                      |                          |
|                          |                     |             |          |               |                                                 |                                  |                           |                             |                            |                                  | SQ FT                             |                                                 |                                  |                                                                  | EACH                                          |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        |                           |                      |                          |
|                          |                     |             |          |               |                                                 |                                  | 96                        |                             | 57                         | I-76, WB                         | 1199+76                           | M3-4-36 (BL)<br>M1-1-36<br>M3-4-36<br>M1-4-45-3 | 36X18<br>36X36<br>36X18<br>45X36 |                                                                  |                                               | 4.5<br>9.0<br>4.5<br>11.25                    |                         | 1<br><br>1 |                           | 4                  |                    |                    |               |             |              | 15.0<br><br>16.5 | 15.5<br><br>17.0      |                                       |                                        |                           |                      |                          |
| 95                       |                     | 58          | I-76, WB | 1192+87       | R2-1-48                                         | NO WORK                          |                           |                             |                            |                                  |                                   |                                                 |                                  |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        |                           |                      |                          |
| 95                       |                     | 59          | I-76, WB | 1187+72       | D10-1-12                                        | 12X24                            |                           |                             | 2.0                        |                                  | 1                                 |                                                 | 1                                |                                                                  |                                               |                                               |                         | 11.5       |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 2                         |                      |                          |
| 95                       |                     | 60          | I-76, WB | 1185+33       | PREPASS                                         | NO WORK                          |                           |                             |                            |                                  |                                   |                                                 |                                  |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        |                           |                      |                          |
| 95                       |                     | 61          | I-76, WB | 1185+33 (MED) | OM-H3L-12                                       | 12X36                            |                           |                             | 3.0                        |                                  | 1                                 |                                                 | 1                                |                                                                  |                                               |                                               |                         | 13.5       |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 2                         |                      |                          |
| 95                       |                     | 62          | I-76, WB | 1185+14       | OM-H3R-12<br>I-H25a-12                          | 12X36                            |                           |                             | 3.0                        |                                  | 1                                 |                                                 | 1                                |                                                                  | 1                                             |                                               |                         | 13.5       |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 3                         |                      |                          |
| 95                       | 104                 | 63          | I-76, WB | 1175+99       | D8-1-96                                         | 96X72                            | 48.0                      |                             |                            |                                  | 2                                 |                                                 | 1                                |                                                                  |                                               |                                               |                         |            |                           |                    | 17.9               | 15.9               |               |             |              | 2                | 2                     | 2                                     |                                        |                           |                      |                          |
| 94                       |                     | 64          | I-76, WB | 1163+14       | COM VEH                                         | NO WORK                          |                           |                             |                            |                                  |                                   |                                                 |                                  |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        |                           |                      |                          |
| 94                       | 104                 | 65          | I-76, WB | 1151+97       | R13-H2-120                                      |                                  |                           |                             |                            |                                  |                                   |                                                 |                                  |                                                                  | 2                                             | 1                                             |                         |            |                           |                    |                    |                    | 20.8          | 25.3        |              |                  | 2                     | 2                                     | 1                                      |                           |                      |                          |
| 94                       |                     | 66          | I-76, WB | 1149+96 (MED) | OM-H3L-12                                       | 12X36                            |                           |                             | 3.0                        |                                  |                                   |                                                 | 1                                |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 2                         |                      |                          |
| 94                       |                     | 67          | I-76, WB | 1149+94       | OM-H3R-12<br>I-H25a-12                          | 12X36                            |                           |                             | 3.0                        |                                  |                                   |                                                 | 1                                |                                                                  | 1                                             |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 3                         |                      |                          |
| 93                       |                     | 68          | I-76, WB | 1140+50       | D8-H2-156                                       | 156X72                           | 78.0                      |                             |                            |                                  |                                   |                                                 | 1                                |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 2                         |                      |                          |
| 93                       |                     | 69          | I-76, WB | 1135+23       | D10-1-12                                        | 12X24                            |                           |                             | 2.0                        |                                  |                                   |                                                 | 1                                |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 2                         |                      |                          |
| 93                       |                     | 70          | I-76, WB | 1122+72       | D8-3-84                                         | 84X78                            | 45.5                      |                             |                            |                                  |                                   |                                                 | 1                                |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 2                         |                      |                          |
| 92                       |                     | 71          | I-76, WB | 1108+82       | W4-1R-48                                        | 48X48                            |                           | 16.0                        |                            |                                  | 2                                 |                                                 | 1                                |                                                                  |                                               |                                               |                         | 16.0       | 16.0                      |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 2                         |                      |                          |
| 91                       |                     | 72          | I-76, WB | 1082+82       | D10-1-12                                        | 12X24                            |                           |                             | 2.0                        |                                  | 1                                 |                                                 | 1                                |                                                                  |                                               |                                               |                         | 11.5       |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 2                         |                      |                          |
| 90                       |                     | 73          | I-76, WB | 1036+61       | LOGO                                            | NO WORK                          |                           |                             |                            |                                  |                                   |                                                 |                                  |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        |                           |                      |                          |
| 89                       |                     | 74          | I-76, WB | 1032+05       | D10-1-12                                        | 12X24                            |                           |                             | 2.0                        |                                  |                                   |                                                 |                                  |                                                                  |                                               |                                               |                         | 11.5       |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 1                         |                      |                          |
| 89                       |                     | 75          | I-76, WB | 1031+61       | M3-4-36 (BL)<br>M1-1-36<br>M3-4-36<br>M1-4-45-3 | 36X18<br>36X36<br>36X18<br>45X36 |                           |                             | 4.5<br>9.0<br>4.5<br>11.25 |                                  | 1<br><br>1                        |                                                 | 4                                |                                                                  |                                               |                                               |                         |            | 15.0<br><br>15.5<br>16.0  |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 8                         |                      |                          |
| 89                       |                     | 76          | I-76, WB | 1030+30       | D10-1-12                                        |                                  |                           |                             |                            |                                  | 1                                 |                                                 | 1                                |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 1                         |                      |                          |
| 88                       |                     | 77          | I-76, WB | 1007+15       | LOGO                                            | NO WORK                          |                           |                             |                            |                                  |                                   |                                                 |                                  |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        |                           |                      |                          |
| 88                       |                     | 78          | I-76, WB | 999+15        | E1-H5-72<br>E1-H1-120                           | 72X24<br>120X144                 | 12.0<br>120.0             |                             |                            |                                  |                                   |                                                 | 1                                | 1                                                                |                                               |                                               |                         |            |                           |                    |                    |                    |               |             | 2            |                  |                       |                                       |                                        | 4                         |                      |                          |
| 88                       |                     | 79          | I-76, WB | 984+52        | GSC-1                                           |                                  |                           |                             |                            |                                  | 2                                 |                                                 | 1                                |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 1                         |                      |                          |
| 87                       |                     | 80          | I-76, WB | 978+18 (MED)  | OM-H3L-12                                       |                                  |                           |                             |                            |                                  | 1                                 |                                                 | 1                                |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 1                         |                      |                          |
| 87                       |                     | 81          | I-76, WB | 978+18        | OM-H3R-12<br>I-H25a-12                          |                                  |                           |                             |                            |                                  | 1                                 |                                                 | 1                                |                                                                  | 1                                             |                                               |                         | 11.5       |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 2                         |                      |                          |
| 87                       |                     | 82          | I-76, WB | 977+99        | E1-H5-72<br>E1-H1-120                           | 72X24<br>120X144                 | 12.0<br>120.0             |                             |                            |                                  |                                   |                                                 | 1                                | 1                                                                |                                               |                                               |                         |            |                           |                    |                    |                    |               |             | 2            |                  |                       |                                       |                                        | 4                         |                      |                          |
| 87                       |                     | 83          | I-76, WB | 977+65        | D10-1-12                                        | 12X24                            |                           |                             | 2.0                        |                                  |                                   |                                                 | 1                                |                                                                  |                                               |                                               |                         |            |                           |                    |                    |                    |               |             |              |                  |                       |                                       |                                        | 2                         |                      |                          |
| SUBTOTALS                |                     |             |          |               |                                                 |                                  | 435.5                     | 16.0                        | 80.5                       |                                  | 17                                |                                                 | 22                               | 6                                                                | 2                                             | 4                                             |                         | 73.0       | 127.5                     | 15.0               |                    | 33.8               |               | 46.1        |              | 4                |                       | 4                                     | 4                                      | 57                        |                      |                          |

SIGN SUB-SUMMARY - REFERENCE NUMBERS

MED-76-0.61

108  
138

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SIGN SUB-SUMMARY - REFERENCE NUMBERS

MED-76-0.61

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108  
138

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| Plan Sheet Reference No. | Elevation Sheet No. | Sign Number | Location     | Station | Code Number                                     | Sign Size (Inches)               | 630                       |                             |                          |                                  |                                   |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           | 630 |                      |                          |               |
|--------------------------|---------------------|-------------|--------------|---------|-------------------------------------------------|----------------------------------|---------------------------|-----------------------------|--------------------------|----------------------------------|-----------------------------------|---------------------------------------------|------|------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------|-------|---------------------------|--------------------|--------------------|--------------------|---------------|-------------|--------------|---------------|-----------------------|---------------------------------------|----------------------------------------|---------------------------|-----|----------------------|--------------------------|---------------|
|                          |                     |             |              |         |                                                 |                                  | SIGNS                     |                             |                          |                                  | Removal of Ground Mounted Support | Removal of Ground Mounted Sign and Disposal |      | Removal of Ground Mounted Beam Support and Disposal, As Per Plan | Removal of Ground Mounted Sign and Reerection | Removal of Overhead Mounted Sign and Disposal | GROUND MOUNTED SUPPORTS |       |                           |                    |                    |                    |               |             |              |               | Sign Backing Assembly | Sign Attachment Assembly, As Per Plan | Ground Mounted Beam Support Foundation | Breakaway Beam Connection |     | Sign Data Collection | Sign Post Reflector, Red |               |
|                          |                     |             |              |         |                                                 |                                  | Ground Mounted Extrusheet | Overhead Mounted Extrusheet | Flat Sheet               | Flat Sheet, As Per Plan (Hinged) |                                   | Post                                        | Beam |                                                                  |                                               |                                               | Minor                   | Major | One-Way No.3, As Per Plan | No. 2, As Per Plan | No. 3, As Per Plan | No. 4, As Per Plan | S4 x 7.7 Beam | W6 x 9 Beam | W8 x 18 Beam | W10 x 12 Beam |                       |                                       |                                        |                           |     |                      |                          | W10 x 22 Beam |
|                          |                     |             |              |         |                                                 |                                  |                           |                             |                          |                                  |                                   |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     |                      |                          |               |
|                          |                     |             |              |         |                                                 |                                  |                           |                             |                          |                                  |                                   |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     |                      |                          |               |
|                          |                     |             |              |         |                                                 |                                  | SQ FT                     |                             |                          |                                  | EACH                              |                                             |      |                                                                  | FOOT                                          |                                               |                         |       |                           |                    |                    |                    |               |             | Each         | Each          | Each                  | Each                                  | Each                                   | Each                      |     |                      |                          |               |
| 98                       |                     | 111         | SR 3, RAMP B | 5+04    | LOGO                                            | NO WORK                          |                           |                             |                          |                                  |                                   |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     |                      |                          |               |
| 98                       |                     | 112         | SR 3, RAMP B | 6+00    | M1-5-30-1<br>M6-4-24<br>D1-H6a-96               | 30X30<br>24X18<br>96X48          | 32.0                      |                             | 6.3<br>3.0               |                                  |                                   |                                             | 2    | 1                                                                |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               | 1                     |                                       |                                        |                           |     | 6                    |                          |               |
| 98                       |                     | 113         | SR 3, RAMP B | 6+84    | LOGO                                            | NO WORK                          |                           |                             |                          |                                  |                                   |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     |                      |                          |               |
| 98                       |                     | 114         | SR 3, RAMP B | 8+02    | R5-1A-36                                        | 36X24                            |                           |                             | 6.0                      |                                  | 1                                 |                                             | 1    |                                                                  |                                               |                                               |                         |       |                           |                    | 12.5               |                    |               |             |              |               |                       |                                       |                                        |                           | 2   | 1                    |                          |               |
| 98                       |                     | 115         | SR 3, RAMP B | 8+02    | LOGO<br>R5-1a-36                                | NO WORK<br>36X24                 |                           |                             | 6.0                      |                                  | 1                                 |                                             | 1    |                                                                  |                                               | MOUNT ON BEAM SUPPORTS                        |                         |       |                           |                    |                    |                    |               |             |              | 1             |                       |                                       |                                        |                           |     | 2                    | 1                        |               |
| 98                       |                     | 116         | SR 3, RAMP A | 0+88    | R5-H10d-36                                      | 36X36                            |                           |                             | 9.0                      |                                  | 1                                 |                                             | 1    |                                                                  |                                               |                                               |                         |       |                           |                    | 13.5               |                    |               |             |              |               |                       |                                       |                                        |                           | 2   |                      |                          |               |
| 99                       |                     | 117         | SR 3, NB     | 0+01    | M2-1-21 (BL)<br>M1-1-24<br>M2-1-21<br>M1-4-30-3 | 21X15<br>24X24<br>21X15<br>30X24 |                           |                             | 2.2<br>4.0<br>2.2<br>5.0 |                                  |                                   |                                             | 4    |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     | 8                    |                          |               |
| 99                       |                     | 118         | SR 3, NB     | 2+41    | W8-13                                           |                                  |                           |                             |                          |                                  | 1                                 |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    | 14.5               |                    |               |             |              |               |                       |                                       |                                        |                           |     | 1                    |                          |               |
| 99                       |                     | 119         | SR 3, NB     | 3+55    | M2-H4-108<br>M2-H4-108                          | NO WORK<br>NO WORK               |                           |                             |                          |                                  |                                   |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     |                      |                          |               |
| 99                       |                     | 120         | SR 3, NB     | 5+09    | W3-3-36                                         | 36X36                            |                           |                             | 9.0                      |                                  | 1                                 |                                             | 1    |                                                                  |                                               |                                               |                         |       |                           |                    | 14.5               |                    |               |             |              |               |                       |                                       |                                        |                           |     | 2                    |                          |               |
| 99                       |                     | 121         | SR 3, NB     | 7+23    | D1-H6a-108                                      | NO WORK                          |                           |                             |                          |                                  |                                   |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     |                      |                          |               |
| 99                       |                     | 122         | SR 3, NB     | 9+58    | D1-H4                                           | NO WORK                          |                           |                             |                          |                                  |                                   |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     |                      |                          |               |
| 99                       |                     | 123         | SR 3, NB     | 10+45   | M2-H6-120<br>M2-H6-120                          | 120X84<br>120X84                 |                           |                             | 70.0<br>70.0             |                                  |                                   |                                             |      |                                                                  |                                               | 2                                             |                         |       |                           |                    |                    |                    |               |             |              |               | 2                     |                                       |                                        |                           |     | 4                    |                          |               |
| 99                       |                     | 124         | SR 3, NB     | 11+06   | OM-H3R-12<br>I-H25a-12                          | 12X36<br>NO WORK                 |                           |                             | 3.0                      |                                  |                                   |                                             | 1    |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     | 2                    |                          |               |
| 100                      |                     | 125         | SR 3, NB     | 13+24   | OM-H3L-12                                       | 12X36                            |                           |                             | 3.0                      |                                  |                                   |                                             | 1    |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     | 2                    |                          |               |
| 100                      |                     | 126         | SR 3, NB     | 13+83   | D10-H8-12                                       | 12X12                            |                           |                             | 1.0                      | DOUBLE FACED                     |                                   |                                             | 1    |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     | 2                    |                          |               |
| 100                      |                     | 127         | SR 3, NB     | 13+89   | R5-1-36<br>R6-1L-36<br>R6-1R-36                 | 36X36<br>36X12<br>36X12          |                           |                             | 9.0<br>3.0<br>3.0        |                                  |                                   |                                             | 3    |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     | 6                    | 2                        |               |
| 100                      |                     | 128         | SR 3, NB     | 14+76   | R5-1-36<br>R6-1L-36<br>R6-1R-36                 | 36X36<br>36X12<br>36X12          |                           |                             | 9.0<br>3.0<br>3.0        |                                  |                                   |                                             | 3    |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     | 6                    | 2                        |               |
| 100                      |                     | 129         | SR 3, NB     | 15+22   | I-H114                                          | NO WORK                          |                           |                             |                          |                                  |                                   |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     |                      |                          |               |
| 100                      |                     | 130         | SR 3, NB     | 16+55   | LOGO SIGN                                       | NO WORK                          |                           |                             |                          |                                  |                                   |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     |                      |                          |               |
| 100                      |                     | 131         | SR 3, NB     | 18+92   | D2-H2-72<br>M3-1-24<br>M1-5-24-1                | 72X24<br>24X12<br>24X24          |                           |                             | 12.0<br>2.0<br>4.0       |                                  |                                   |                                             | 3    |                                                                  |                                               |                                               |                         |       |                           |                    | 13.5               |                    |               |             |              |               |                       |                                       |                                        |                           |     | 6                    |                          |               |
| 100                      |                     | 132         | SR 3, NB     | 22+08   | R2-1-24                                         | 24X30                            |                           |                             | 5.0                      |                                  | 1                                 |                                             | 1    |                                                                  |                                               |                                               |                         |       |                           |                    | 13.0               |                    |               |             |              |               |                       |                                       |                                        |                           |     | 2                    |                          |               |
| 100                      |                     | 133         | SR 3, SB     | 28+03   | R16-H4-24                                       | 24X30                            |                           |                             | 5.0                      |                                  |                                   |                                             |      |                                                                  |                                               |                                               |                         |       |                           |                    | 13.0               |                    |               |             |              |               |                       |                                       |                                        |                           |     | 1                    |                          |               |
| 100                      |                     | 134         | SR 3, SB     | 26+34   | R2-1-24                                         | 24X30                            |                           |                             | 5.0                      |                                  |                                   |                                             | 1    |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     | 2                    |                          |               |
| 100                      |                     | 135         | SR 3, SB     | 25+35   | R16-H4                                          |                                  |                           |                             |                          |                                  | 1                                 |                                             | 1    |                                                                  |                                               |                                               |                         |       |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |     | 1                    |                          |               |
| SUBTOTALS                |                     |             |              |         |                                                 |                                  | 32.0                      | 140.0                       | 122.7                    |                                  | 7                                 |                                             |      | 25                                                               | 1                                             |                                               |                         |       |                           |                    | 94.5               |                    |               |             |              |               | 2                     | 2                                     |                                        |                           |     | 57                   | 6                        |               |

SIGN SUB-SUMMARY - REFERENCE NUMBERS

MED-76-0.61

110  
138

CALC BY EAS  
CHK'D BY CVH

SIGN SUB-SUMMARY - REFERENCE NUMBERS

MED-76-0.61

CALC BY EAS  
CHK'D BY CVH

| Plan Sheet Reference No. | Elevation Sheet No. | Sign Number | Location  | Station | Code Number                                                                | Sign Size (Inches)                        | 630                       |                                 |              |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               | 630  | CALC BY EAS<br>CHK'D BY CVH |                       |                                       |                                        |                           |                      |                          |             |              |               |               |
|--------------------------|---------------------|-------------|-----------|---------|----------------------------------------------------------------------------|-------------------------------------------|---------------------------|---------------------------------|--------------|----------------------------------|-----------------------------------|---------------------------------------------|------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------|--------------|-------|-------|---------------------------|--------------------|--------------------|--------------------|---------------|------|-----------------------------|-----------------------|---------------------------------------|----------------------------------------|---------------------------|----------------------|--------------------------|-------------|--------------|---------------|---------------|
|                          |                     |             |           |         |                                                                            |                                           | SIGNS                     |                                 |              |                                  | Removal of Ground Mounted Support | Removal of Ground Mounted Sign and Disposal | Removal of Ground Mounted Beam Support and Disposal, As Per Plan | Removal of Ground Mounted Sign and Reerection | Removal of Overhead Mounted Sign and Disposal | GROUND MOUNTED SUPPORTS |              |       |       |                           |                    |                    |                    |               |      |                             | Sign Backing Assembly | Sign Attachment Assembly, As Per Plan | Ground Mounted Beam Support Foundation | Breakaway Beam Connection | Sign Data Collection | Sign Post Reflector, Red |             |              |               |               |
|                          |                     |             |           |         |                                                                            |                                           | Ground Mounted Extrusheet | Overhead Mounted Extrusheet     | Flat Sheet   | Flat Sheet, As Per Plan (Hinged) |                                   |                                             |                                                                  |                                               |                                               | Post                    | Beam         | Minor | Major | One-Way No.3, As Per Plan | No. 2, As Per Plan | No. 3, As Per Plan | No. 4, As Per Plan | S4 x 7.7 Beam |      |                             |                       |                                       |                                        |                           |                      |                          | W6 x 9 Beam | W8 x 18 Beam | W10 x 12 Beam | W10 x 22 Beam |
|                          |                     |             |           |         |                                                                            |                                           |                           |                                 |              |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       |                                       |                                        |                           |                      |                          |             |              |               |               |
|                          |                     |             |           |         |                                                                            |                                           |                           |                                 |              |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       |                                       |                                        |                           |                      |                          |             |              |               |               |
|                          |                     |             |           |         |                                                                            |                                           | SQ FT                     | EACH                            |              |                                  |                                   |                                             |                                                                  |                                               | FOOT                                          |                         |              |       |       |                           |                    |                    |                    |               | Each | Each                        | Each                  | Each                                  | Each                                   | Each                      |                      |                          |             |              |               |               |
| 100                      |                     | 136         | SR 3, SB  | 24+86   | M2-1-21 (BL)<br>M1-1-24-2<br>M2-1-21<br>M1-5-30-3<br>I-H2a-40<br>BLUE SIGN | 21X15<br>24X24<br>21X15<br>30X24<br>40X20 |                           | 2.2<br>4.0<br>2.2<br>5.0<br>5.6 |              | 3                                |                                   | 6                                           |                                                                  |                                               |                                               |                         | 13.5         | 14.0  |       |                           |                    |                    |                    |               | 1    |                             |                       |                                       |                                        | 11                        |                      |                          |             |              |               |               |
| 100                      |                     | 137         | SR 3, SB  | 22+80   | M2-H4-108<br>M2-H4-108                                                     | NO WORK<br>NO WORK                        |                           |                                 |              |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       |                                       |                                        |                           |                      |                          |             |              |               |               |
| 100                      |                     | 138         | SR 3, SB  | 21+43   | W3-3-36                                                                    | 36X36                                     |                           | 9.0                             |              |                                  | 1                                 |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       |                                       | 2                                      |                           |                      |                          |             |              |               |               |
| 100                      |                     | 139         | SR 3, SB  | 20+32   | D1-H6a                                                                     | NO WORK                                   |                           |                                 |              |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       |                                       |                                        |                           |                      |                          |             |              |               |               |
| 100                      |                     | 140         | SR 3, SB  | 17+83   | W8-13-36                                                                   | NO WORK                                   |                           |                                 |              |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       |                                       |                                        |                           |                      |                          |             |              |               |               |
| 100                      |                     | 141         | SR 3, SB  | 16+88   | R1-1-36                                                                    | 36X36                                     |                           | 9.0                             | 1            |                                  | 1                                 |                                             |                                                                  |                                               |                                               |                         | 13.5         |       |       |                           |                    |                    |                    |               |      |                             |                       | 2                                     | 1                                      |                           |                      |                          |             |              |               |               |
| 100                      |                     | 142         | SR 3, SB  | 14+73   | D1-H4                                                                      |                                           |                           |                                 | 2            |                                  |                                   |                                             |                                                                  |                                               |                                               |                         | 12.5         | 12.5  |       |                           |                    |                    |                    |               |      |                             |                       | 1                                     |                                        |                           |                      |                          |             |              |               |               |
| 100                      |                     | 143         | SR 3, SB  | 13+88   | D9-H19b                                                                    |                                           |                           |                                 | 1            |                                  | 1                                 |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       | 1                                     |                                        |                           |                      |                          |             |              |               |               |
| 100                      |                     | 144         | SR3, SB   | 13+65   | M2-H6-120<br>M2-H6-120                                                     | 120X84<br>120X84                          |                           | 70.0<br>70.0                    |              |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    | 2                  |               |      |                             |                       | 4                                     |                                        |                           |                      |                          |             |              |               |               |
| 100                      |                     | 145         | SR 3, SB  | 13+22   | OM-H3R-12<br>I-H25a-12                                                     | 12X36<br>NO WORK                          |                           | 3.0                             |              |                                  | 1                                 |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       | 2                                     |                                        |                           |                      |                          |             |              |               |               |
| 99                       |                     | 146         | SR 3, SB  | 11+09   | OM-H3L-12                                                                  | 12X36                                     |                           | 3.0                             |              |                                  | 1                                 |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       | 2                                     |                                        |                           |                      |                          |             |              |               |               |
| 99                       |                     | 147         | SR 3, SB  | 10+45   | R5-1-36<br>R6-1R-36<br>R6-1L-36                                            | 36X36<br>36X12<br>36X12                   |                           | 9.0<br>3.0<br>3.0               | 2            |                                  | 3                                 |                                             |                                                                  | 14.5                                          |                                               |                         | 13.5         |       |       |                           |                    |                    |                    |               |      |                             |                       | 6                                     | 2                                      |                           |                      |                          |             |              |               |               |
| 99                       |                     | 148         | SR 3, SB  | 9+51    | R5-1-36<br>R6-1R-36<br>R6-1L-36                                            | 36X36<br>36X12<br>36X12                   |                           | 9.0<br>3.0<br>3.0               | 2            |                                  | 3                                 |                                             |                                                                  | 14.5                                          |                                               |                         | 13.5         |       |       |                           |                    |                    |                    |               |      |                             |                       | 6                                     | 2                                      |                           |                      |                          |             |              |               |               |
| 99                       |                     | 149         | SR 3, SB  | 7+93    | R3-I8bb-30                                                                 | 30X30                                     |                           | 6.3                             | 1            |                                  | 1                                 |                                             |                                                                  |                                               |                                               |                         | 13.0         |       |       |                           |                    |                    |                    |               |      |                             |                       | 2                                     |                                        |                           |                      |                          |             |              |               |               |
| 99                       |                     | 150         | SR 3, SB  | 5+44    | R7-1-12L                                                                   | 12X18                                     |                           | 1.5                             | 1            |                                  | 1                                 |                                             |                                                                  |                                               |                                               | 12.0                    |              |       |       |                           |                    |                    |                    |               |      |                             |                       | 2                                     |                                        |                           |                      |                          |             |              |               |               |
| 99                       |                     | 151         | SR 3, SB  | 4+63    | R7-1-12R                                                                   | 12X18                                     |                           | 1.5                             | 1            |                                  | 1                                 |                                             |                                                                  |                                               |                                               | 12.0                    |              |       |       |                           |                    |                    |                    |               |      |                             |                       | 2                                     |                                        |                           |                      |                          |             |              |               |               |
| 101                      |                     | 152         | SR 57, NB | 9+00    | M2-1-21 (BL)<br>M1-1-24<br>M2-1-21<br>M1-4-30-3                            | 21X15<br>24X24<br>21X15<br>30X24          |                           | 2.2<br>4.0<br>2.2<br>5.0        | 2            |                                  | 4                                 |                                             |                                                                  |                                               |                                               |                         | 14.0<br>14.5 |       |       |                           |                    |                    |                    |               |      |                             |                       | 8                                     |                                        |                           |                      |                          |             |              |               |               |
| 101                      |                     | 153         | SR 57, NB | 11+00   | W3-3-36                                                                    | NO WORK                                   |                           |                                 |              |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       |                                       |                                        |                           |                      |                          |             |              |               |               |
| 101                      |                     | 154         | SR 57, NB | 12+54   | D10-H8-12                                                                  | 12X12                                     |                           | 1.0                             | DOUBLE FACED |                                  | 1                                 |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       | 2                                     |                                        |                           |                      |                          |             |              |               |               |
| 101                      | 105                 | 155         | SR 57, NB | 13+08   | M2-H4-108<br>M2-H4-108                                                     | 108X36<br>108X36                          | 27.0<br>27.0              |                                 |              | 2                                | 2                                 |                                             |                                                                  |                                               |                                               |                         |              |       |       | 20.9                      | 23.5               |                    |                    |               |      | 2                           | 2                     | 4                                     |                                        |                           |                      |                          |             |              |               |               |
| 101                      |                     | 156         | SR 57, NB | 15+08   | W8-13-36                                                                   | NO WORK                                   |                           |                                 |              |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       |                                       |                                        |                           |                      |                          |             |              |               |               |
| 101                      |                     | 157         | SR 57, NB | 17+05   | D1-H6a-96                                                                  | 96X48                                     | 32.0                      |                                 |              |                                  | 1                                 |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    |               |      |                             |                       | 2                                     |                                        |                           |                      |                          |             |              |               |               |
| 101                      |                     | 158         | SR 57, NB | 19+18   | M2-H6-120<br>M2-H6-120                                                     | 120X84<br>120X84                          |                           | 70.0<br>70.0                    |              |                                  |                                   |                                             |                                                                  |                                               |                                               |                         |              |       |       |                           |                    |                    |                    | 2             |      |                             |                       | 4                                     |                                        |                           |                      |                          |             |              |               |               |
| 101                      |                     | 159         | SR 57, NB | 20+97   | M3-1-24<br>M1-5-24-2<br>R2-1-24                                            | 24X12<br>24X24<br>24X30                   |                           | 2.0<br>4.0<br>5.0               | 2            |                                  | 3                                 |                                             |                                                                  |                                               |                                               |                         | 13.5<br>13.5 |       |       |                           |                    |                    |                    |               |      |                             |                       | 6                                     |                                        |                           |                      |                          |             |              |               |               |
| SUBTOTALS                |                     |             |           |         |                                                                            |                                           | 86.0                      | 280.0                           | 107.7        |                                  | 18                                | 2                                           | 31                                                               |                                               |                                               | 1                       | 4            | 29.0  | 24.0  | 161.5                     |                    |                    |                    |               |      | 44.4                        |                       | 1                                     | 4                                      | 2                         | 2                    | 69                       | 5           |              |               |               |

SIGN SUB-SUMMARY - REFERENCE NUMBERS

MED-76-0.61

111  
138

| Plan Sheet Reference No. | Elevation Sheet No. | Sign Number | Location  | Station | Code Number                                                          | Sign Size (Inches)                                 | SIGNS                                  |                             |            |                                  | Removal of Ground Mounted Support | Removal of Ground Mounted Sign and Disposal |      | Removal of Ground Mounted Beam Support and Disposal, As Per Plan | Removal of Ground Mounted Sign and Reerection | Removal of Overhead Mounted Sign and Disposal | 630   |              |                           |                    |                    |                    |               |             |              |               | Sign Backing Assembly | Sign Attachment Assembly, As Per Plan | Ground Mounted Beam Support Foundation | Breakaway Beam Connection | Sign Data Collection | Sign Post Reflector, Red | 630 |               |       |
|--------------------------|---------------------|-------------|-----------|---------|----------------------------------------------------------------------|----------------------------------------------------|----------------------------------------|-----------------------------|------------|----------------------------------|-----------------------------------|---------------------------------------------|------|------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------|--------------|---------------------------|--------------------|--------------------|--------------------|---------------|-------------|--------------|---------------|-----------------------|---------------------------------------|----------------------------------------|---------------------------|----------------------|--------------------------|-----|---------------|-------|
|                          |                     |             |           |         |                                                                      |                                                    | Ground Mounted Extrusheet              | Overhead Mounted Extrusheet | Flat Sheet | Flat Sheet, As Per Plan (Hinged) |                                   | Post                                        | Beam |                                                                  |                                               |                                               | Minor | Major        | GROUND MOUNTED SUPPORTS   |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |                      |                          |     |               |       |
|                          |                     |             |           |         |                                                                      |                                                    |                                        |                             |            |                                  |                                   |                                             |      |                                                                  |                                               |                                               |       |              | One-Way No.3, As Per Plan | No. 2, As Per Plan | No. 3, As Per Plan | No. 4, As Per Plan | S4 x 7.7 Beam | W6 x 9 Beam | W8 x 18 Beam | W10 x 12 Beam |                       |                                       |                                        |                           |                      |                          |     | W10 x 22 Beam |       |
|                          |                     |             |           |         |                                                                      |                                                    |                                        |                             |            |                                  |                                   |                                             |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |                      |                          |     |               | SQ FT |
| 102                      |                     | 160         | SR 57, NB | 22+96   | M3-4-24<br>M1-1-24-2<br>M5-1L-21<br>M3-4-24<br>M1-4-30-3<br>M5-1L-21 | 24X12<br>24X24<br>21X15<br>24X12<br>30X24<br>21X15 | 2.0<br>4.0<br>2.2<br>2.0<br>5.0<br>2.2 |                             |            | 2                                |                                   | 6                                           |      |                                                                  |                                               |                                               |       | 14.8<br>15.0 |                           |                    |                    |                    |               |             |              |               |                       | 12                                    |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 161         | SR 57, NB | 23+23   | I-H2b-24                                                             | 24X18                                              |                                        |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 162         | SR 57, NB | 23+97   | I-H2c-24                                                             | 24X18                                              |                                        |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 163         | SR 57, NB | 24+16   | OM-3R-12<br>I-H25a-12                                                | 12X36<br>NO WORK                                   |                                        |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 164         | SR 57, NB | 26+39   | OM-3L-12                                                             | 12X36                                              |                                        |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 165         | SR 57, NB | 28+87   | M3-1-24<br>M1-5-24-2                                                 | 24X12<br>24X24                                     | 2.0<br>4.0                             |                             |            |                                  |                                   | 2                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 4                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 166         | SR 57, NB | 30+20   | W1-2L-36                                                             | 36X36                                              |                                        |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 167         | SR 57, NB | 32+27   | R2-1-24                                                              | 24X30                                              |                                        |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 103                      |                     | 168         | SR 57, NB | 38+30   | D2-H2-72                                                             | 72X24                                              |                                        |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 103                      |                     | 169         | SR 57, SB | 41+94   | M2-1-21 (BL)<br>M1-1-24<br>M2-1-21<br>M1-4-30-3                      | 21X15<br>24X24<br>21X15<br>30X24                   | 2.2<br>4.0<br>2.2<br>5.0               |                             |            |                                  |                                   |                                             |      |                                                                  |                                               |                                               |       | 14.0<br>14.5 |                           |                    |                    |                    |               |             |              |               |                       | 4                                     |                                        |                           |                      |                          |     |               |       |
| 103                      |                     | 170         | SR 57, SB | 41+64   | M2-1-21 (BL)<br>M1-1-24<br>M2-1-21<br>M1-4-30-3                      |                                                    |                                        |                             | 4          |                                  | 2                                 |                                             |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 4                                     |                                        |                           |                      |                          |     |               |       |
| 103                      |                     | 171         | SR 57, SB | 39+47   | W1-2R-36                                                             | 36X36                                              |                                        |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 103                      |                     | 172         | SR 57, SB | 37+68   | I-H2b-24                                                             | 24X18                                              |                                        |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 103                      |                     | 173         | SR 57, SB | 36+51   | W3-3-36                                                              | NO WORK                                            |                                        |                             |            |                                  |                                   |                                             |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       |                                       |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 174         | SR 57, SB | 34+47   | M2-H4-108<br>M2-H4-108                                               | 108X36<br>108X36                                   | 27.0<br>27.0                           |                             |            |                                  |                                   | 2                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 4                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 175         | SR 57, SB | 32+10   | W8-13-36                                                             | 36X36                                              |                                        |                             |            |                                  |                                   |                                             |      | 1                                                                |                                               |                                               |       | 14.5         |                           |                    |                    |                    |               |             |              |               |                       | 1                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 176         | SR 57, SB | 30+41   | D1-H6a-96                                                            | 96X48                                              | 32.0                                   |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 177         | SR 57, SB | 27+70   | D1-H4a-72<br>D1-H4a-72<br>D9-2-24<br>I-H12L-24                       | 72X24<br>72X12<br>24X24<br>24X6                    | 12.0<br>6.0<br>2.0<br>1.0              |                             | 2          |                                  | 4                                 |                                             |      |                                                                  |                                               |                                               | 14.5  | 14.5         |                           |                    |                    |                    |               |             |              |               |                       | 8                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 178         | SR 57, SB | 26+85   | M2-H6-120<br>M2-H6-120                                               | 120X84<br>120X84                                   |                                        |                             |            |                                  |                                   |                                             |      |                                                                  | 2                                             |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 4                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 179         | SR 57, SB | 26+35   | OM-H3R-12<br>I-H25a-12                                               | 12X36<br>NO WORK                                   |                                        |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 180         | SR 57, SB | 24+21   | OM-H3L-12                                                            | 12X36                                              |                                        |                             |            |                                  |                                   | 1                                           |      |                                                                  |                                               |                                               |       |              |                           |                    |                    |                    |               |             |              |               |                       | 2                                     |                                        |                           |                      |                          |     |               |       |
| 102                      |                     | 181         | SR 57, SB | 23+72   | M3-2-24<br>M1-1-24<br>M5-1L-21<br>M3-2-24<br>M1-4-30-3<br>M5-1L-21   | 24X12<br>24X24<br>21X15<br>24X12<br>30X24<br>21X15 | 2.0<br>4.0<br>2.2<br>2.0<br>5.0<br>2.2 |                             |            | 2                                |                                   | 6                                           |      |                                                                  |                                               |                                               |       | 14.8<br>15.0 |                           |                    |                    |                    |               |             |              |               |                       | 12                                    |                                        |                           |                      |                          |     |               |       |
| SUBTOTALS                |                     |             |           |         |                                                                      |                                                    | 86.0                                   | 140.0                       | 131.2      |                                  | 10                                |                                             | 31   | 3                                                                |                                               | 1                                             | 2     |              |                           | 131.6              |                    |                    |               |             |              |               | 2                     |                                       | 77                                     |                           |                      |                          |     |               |       |

SIGN SUB-SUMMARY - REFERENCE NUMBERS

MED-76-0.61

112  
138

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CHK'D BY CVH



MED-76-0112 L SFN 5204356

| ITEM    | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                                                               | REFERENCE SHEET |
|---------|-----------|----------|-------|---------------------------------------------------------------------------|-----------------|
| SPECIAL | 51160000  | 423      | SQ YD | BRIDGE DECK GROOVING                                                      | 119             |
| 512     | 10100     | 208      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                             |                 |
|         |           |          |       |                                                                           |                 |
| 847     | 10201     | 423      | SQ YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2¼" THICK)          | 119             |
| 847     | 20201     | 12       | CU YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN | 119             |
| 847     | 30000     | LUMP     |       | TEST SLAB                                                                 |                 |
| 847     | 30401     | 423      | SQ YD | EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2¼" NOMINAL THICKNESS)    | 119             |
|         |           |          |       |                                                                           |                 |
|         |           |          |       |                                                                           |                 |

MED-76-0158 L SFN 5204429

| ITEM | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                               | REFERENCE SHEET |
|------|-----------|----------|-------|-------------------------------------------|-----------------|
|      |           |          |       |                                           |                 |
| 202  | 98200     | 110      | FT    | REMOVAL MISC.: RUBBER SEAL                | 118             |
| 512  | 10400     | 959      | SQ YD | TREATING OF CONCRETE BRIDGE DECK WITH SRS |                 |
|      |           |          |       |                                           |                 |
| 516  | 31000     | 110      | FT    | JOINT SEALER                              |                 |

MED-76-0158 R SFN 5204437

| ITEM | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                                            | REFERENCE SHEET |
|------|-----------|----------|-------|--------------------------------------------------------|-----------------|
| 202  | 11301     | 1        | CU YD | PORTIONS OF STRUCTURE REMOVED. AS PER PLAN             | 119             |
| 202  | 98200     | 80       | FT    | REMOVAL MISC.: RUBBER SEAL                             | 118             |
|      |           |          |       |                                                        |                 |
| 511  | 34401     | 1        | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR) | 119             |
| 512  | 10400     | 969      | SQ YD | TREATING OF CONCRETE BRIDGE DECK WITH SRS              |                 |
| 512  | 10600     | 875      | FT    | CONCRETE REPAIR BY EPOXY INJECTION                     |                 |
|      |           |          |       |                                                        |                 |
| 516  | 31000     | 80       | FT    | JOINT SEALER                                           |                 |

DESIGN FILE: i:\projects\77475\structures\strsum.dgn  
WORKSTATION:dmellens DATE:10/14/2009

DESIGN AGENCY  
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STRUCTURE SUMMARY

MED-76-0.61

114  
138

DESIGN FILE: I:\projects\77475\structures\strsum.dgn  
WORKSTATION: dmollens  
DATE: 10/14/2009

MED-76-0299 L SFN 5204593

| ITEM    | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                                                               | REFERENCE SHEET |
|---------|-----------|----------|-------|---------------------------------------------------------------------------|-----------------|
| 202     | 11301     | 1.1      | CU YD | PORTIONS OF STRUCTURE OF REMOVED, AS PER PLAN                             | 119             |
| 202     | 98200     | 76       | FT    | REMOVAL MISC.: RUBBER SEAL                                                | 118             |
| 511     | 34401     | 1.1      | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR)                    | 119             |
| SPECIAL | 51160000  | 418      | SQ YD | BRIDGE DECK GROOVING                                                      | 119             |
|         |           |          |       |                                                                           |                 |
| 512     | 10100     | 209      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                             |                 |
| 516     | 31000     | 76       | FT    | JOINT SEALER                                                              |                 |
|         |           |          |       |                                                                           |                 |
| 847     | 10201     | 418      | SQ YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2¼" THICK)          | 119             |
| 847     | 20201     | 11       | CU YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN | 119             |
| 847     | 30000     | LUMP     |       | TEST SLAB                                                                 |                 |
| 847     | 30401     | 418      | SQ YD | EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2¼" NOMINAL THICKNESS)    | 119             |

MED-76-0299 R SFN 5204658

| ITEM    | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                                                               | REFERENCE SHEET |
|---------|-----------|----------|-------|---------------------------------------------------------------------------|-----------------|
| 202     | 11301     | 1.1      | CU YD | PORTIONS OF STRUCTURE OF REMOVED, AS PER PLAN                             | 119             |
| 202     | 98200     | 82       | FT    | REMOVAL MISC.: RUBBER SEAL                                                | 118             |
|         |           |          |       |                                                                           |                 |
| 511     | 34401     | 1.1      | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR)                    | 119             |
| SPECIAL | 51160000  | 451      | SQ YD | BRIDGE DECK GROOVING                                                      | 119             |
|         |           |          |       |                                                                           |                 |
| 512     | 10100     | 209      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                             |                 |
| 516     | 31000     | 82       | FT    | JOINT SEALER                                                              |                 |
| 601     | 27000     | 44       | CU YD | DUMPED ROCK FILL, TYPE C                                                  |                 |
|         |           |          |       |                                                                           |                 |
| 847     | 10201     | 451      | SQ YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2¼" THICK)          | 119             |
| 847     | 20201     | 12       | CU YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN | 119             |
| 847     | 30000     | LUMP     |       | TEST SLAB                                                                 |                 |
| 847     | 30401     | 451      | SQ YD | EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2¼" NOMINAL THICKNESS)    | 119             |

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STRUCTURE SUMMARY

MED-76-0.61

115  
138

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MED-76-0311 SFN 5204682

| ITEM | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                                   | REFERENCE SHEET |
|------|-----------|----------|-------|-----------------------------------------------|-----------------|
| 512  | 10100     | 441      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |                 |
| 512  | 10400     | 606      | SQ YD | TREATING OF CONCRETE BRIDGE DECK WITH SRS     |                 |
|      |           |          |       |                                               |                 |

MED-76-0399 SFN 5204704

| ITEM | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                                   | REFERENCE SHEET |
|------|-----------|----------|-------|-----------------------------------------------|-----------------|
|      |           |          |       |                                               |                 |
| 512  | 10100     | 424      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |                 |
| 512  | 10400     | 645      | SQ YD | TREATING OF CONCRETE BRIDGE DECK WITH SRS     |                 |
|      |           |          |       |                                               |                 |

MED-76-0516 SFN 5204712

| ITEM | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                                   | REFERENCE SHEET |
|------|-----------|----------|-------|-----------------------------------------------|-----------------|
| 512  | 10100     | 426      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |                 |
| 512  | 10400     | 645      | SQ YD | TREATING OF CONCRETE BRIDGE DECK WITH SRS     |                 |
|      |           |          |       |                                               |                 |
|      |           |          |       |                                               |                 |

MED-76-0622 L SFN 5204747

| ITEM    | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                                                               | REFERENCE SHEET |
|---------|-----------|----------|-------|---------------------------------------------------------------------------|-----------------|
| 202     | 11301     | .3       | CU YD | PORTIONS OF STRUCTURE OF REMOVED, AS PER PLAN                             | 119             |
| 202     | 98200     | 87       | FT    | REMOVAL MISC.: RUBBER SEAL                                                | 118             |
|         |           |          |       |                                                                           |                 |
| 511     | 34401     | .3       | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR)                    | 119             |
| SPECIAL | 51160000  | 540      | SQ YD | BRIDGE DECK GROOVING                                                      | 119             |
|         |           |          |       |                                                                           |                 |
| 512     | 10100     | 244      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                             |                 |
| 516     | 31000     | 87       | FT    | JOINT SEALER                                                              |                 |
|         |           |          |       |                                                                           |                 |
| 847     | 10201     | 540      | SQ YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2 1/4" THICK)       | 119             |
| 847     | 20201     | 15       | CU YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN | 119             |
| 847     | 30000     | LUMP     |       | TEST SLAB                                                                 |                 |
| 847     | 30401     | 540      | SQ YD | EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2 1/4" NOMINAL THICKNESS) | 119             |

MED-76-0622 R SFN 5204771

| ITEM    | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                                                               | REFERENCE SHEET |
|---------|-----------|----------|-------|---------------------------------------------------------------------------|-----------------|
| 202     | 98200     | 87       | FT    | REMOVAL MISC.: RUBBER SEAL                                                | 118             |
| SPECIAL | 51160000  | 540      | SQ YD | BRIDGE DECK GROOVING                                                      | 119             |
|         |           |          |       |                                                                           |                 |
| 512     | 10100     | 244      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                             |                 |
| 516     | 31000     | 87       | FT    | JOINT SEALER                                                              |                 |
|         |           |          |       |                                                                           |                 |
| 847     | 10201     | 540      | SQ YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2¼" THICK)          | 119             |
| 847     | 20201     | 14       | CU YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN | 119             |
| 847     | 30000     | LUMP     |       | TEST SLAB                                                                 |                 |
| 847     | 30401     | 540      | SQ YD | EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2¼" NOMINAL THICKNESS)    | 119             |

MED-76-0690 L SFN 5204801

| ITEM    | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                                                               | REFERENCE SHEET |
|---------|-----------|----------|-------|---------------------------------------------------------------------------|-----------------|
| 202     | 11301     | 1.3      | CU YD | PORTIONS OF STRUCTURE OF REMOVED, AS PER PLAN                             | 119             |
| 202     | 98200     | 88       | FT    | REMOVAL MISC.: RUBBER SEAL                                                | 118             |
| 511     | 34401     | 1.3      | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR)                    | 119             |
| SPECIAL | 51160000  | 393      | SQ YD | BRIDGE DECK GROOVING                                                      | 119             |
|         |           |          |       |                                                                           |                 |
| 512     | 10100     | 190      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                             |                 |
| 516     | 31000     | 88       | FT    | JOINT SEALER                                                              |                 |
|         |           |          |       |                                                                           |                 |
| 847     | 10201     | 393      | SQ YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2¼" THICK)          | 119             |
| 847     | 20201     | 10       | CU YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN | 119             |
| 847     | 30000     | LUMP     |       | TEST SLAB                                                                 |                 |
| 847     | 30401     | 393      | SQ YD | EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2¼" NOMINAL THICKNESS)    | 119             |

MED-76-0690 R SFN 5204836

| ITEM    | EXTENSION | QUANTITY | UNIT  | DESCRIPTION                                                               | REFERENCE SHEET |
|---------|-----------|----------|-------|---------------------------------------------------------------------------|-----------------|
| 202     | 98200     | 88       | FT    | REMOVAL MISC.: RUBBER SEAL                                                | 118             |
| SPECIAL | 51160000  | 393      | SQ YD | BRIDGE DECK GROOVING                                                      | 119             |
|         |           |          |       |                                                                           |                 |
| 512     | 10100     | 190      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                             |                 |
| 516     | 31000     | 88       | FT    | JOINT SEALER                                                              |                 |
|         |           |          |       |                                                                           |                 |
| 847     | 10201     | 393      | SQ YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2¼" THICK)          | 119             |
| 847     | 20201     | 10       | CU YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN | 119             |
| 847     | 30000     | LUMP     |       | TEST SLAB                                                                 |                 |
| 847     | 30401     | 393      | SQ YD | EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2¼" NOMINAL THICKNESS)    | 119             |

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WORKSTATION:dmollens  
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STRUCTURE SUMMARY

MED-76-0.61

117  
138

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION:

847            DATED            10/16/09

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATION AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 & 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATION FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, INCLUDING THE 2003, 2004, 2005 AND 2006 SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

DECK PROTECTION METHOD:

SUPERPLASTICIZED DENSE CONCRETE OVERLAY  
SRS DECK SEALING  
EPOXY INJECTION OF DECK CRACKS

DESIGN DATA:

CLASS S CONCRETE- COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

EXISTING PLANS:

THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGES ARE AVAILABLE UPON REQUEST AT THE DISTRICT 3 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, ASHLAND, OH.

| STRUCTURE #    | PLAN NAME                  | DATE |
|----------------|----------------------------|------|
| MED-76-0112L   | MED-224-16.07              | 1958 |
|                | MED-76-0.61                | 1995 |
| MED-76-0158L   | MED-76-0.61                | 1995 |
|                | MED-71-6.06                | 2006 |
| MED-76-0158R   | MED-76-0.61                | 1995 |
| MED-76-0299L   | MED-224-15.75/SUM-224-0.00 | 1964 |
|                | MED-76-0.61                | 1995 |
| MED-76-0299R   | MED-224-17.66/SUM-224-0.00 | 1964 |
|                | MED-76-0.61                | 1995 |
| MED-76-031I    | MED-224-15.75/SUM-224-0.00 | 1964 |
|                | MED-76-0.61                | 1995 |
| MED-76-0399    | MED-224-15.75/SUM-224-0.61 | 1964 |
|                | MED-76-0.61                | 1995 |
| MED-76-051I    | MED-224-15.75/SUM-224-0.61 | 1964 |
|                | MED-76-0.61                | 1995 |
| MED-76-0622L/R | MED-224-17.66/SUM-224-0.00 | 1964 |
|                | MED-76-0.61                | 1995 |
| MED-76-0690L/R | MED-224-17.66/SUM-224-0.00 | 1964 |
|                | MED-76-0.61                | 1995 |

PLACING ASPHALT CONCRETE ON APPROACHES TO BRIDGES:

SPECIAL CARE SHALL BE TAKEN, WHEN PLACING THE ASPHALT CONCRETE BUTT JOINT TO EFFECT A SMOOTH TRANSITION FROM THE EXISTING APPROACH PAVEMENT TO THE BRIDGE DECK. THE CONTRACTOR'S ATTENTION IS CALLED TO STANDARD DRAWING BP-3.1 FOR REQUIRED TOLERANCES.

ITEM 202 - REMOVAL MISC.: RUBBER SEAL:

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING ELASTOMERIC COMPRESSION SEAL GLAND BETWEEN THE APPROACH SLAB AND THE CONCRETE DECK.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM, WHICH WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:

THIS ITEM SHALL BE USED AT LOCATIONS IN THE PLAN.

THE EXISTING REINFORCING STEEL SHALL BE PRESERVED AS INDICATED IN THE PLANS. EXISTING CONCRETE SHALL BE REMOVED IN A MANNER THAT WILL NOT CUT, ELONGATE, OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED.

THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. CHIPPING HAMMERS SHALL BE LIMITED TO THE 90 POUND CLASS.

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL IN PLACE. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

IF ANY REINFORCING STEEL IS DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPLACE THE REINFORCING STEEL AT NO COST TO THE STATE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CUBIC YARD FOR THE ABOVE ITEMS, WHICH WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 511 - CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR):

THE COARSE AGGREGATE SHALL BE LIMESTONE.

THE TYPE A WATERPROOFING SHALL BE INCLUDED IN THIS ITEM.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM SPECIAL - BRIDGE DECK GROOVING:

THE BRIDGE DECK GROOVING SHALL MEET CMS 511.20.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 847 - EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2 1/4" NOMINAL THICKNESS):

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING OVERLAY AS PER DETAILS IN THE PLAN.

THE THICKNESS OF THE EXISTING CONCRETE OVERLAY TO BE REMOVED SHALL BE AS SPECIFIED IN THE PLANS, REGARDLESS OF THE AMOUNT OF SOLID EXISTING CONCRETE OVERLAY REMAINING.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQUARE YARD FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 847 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2 1/4" THICK):

THE COARSE AGGREGATE SHALL BE LIMESTONE.

THE SURFACE FINISH REQUIREMENTS SHALL BE AS PER CMS 511.19 AND 511.20 (BRIDGE DECK GROOVING) IN LIEU OF THAT WHICH IS SPECIFIED IN SUPPLEMENTAL SPECIFICATION 847.

SEE THE SUPPLEMENTAL SPECIFICATION FOR DETAILS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQUARE YARD FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 847 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN:

THE COARSE AGGREGATE SHALL BE LIMESTONE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0112L:
- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0158L:
- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0158R:

THE ABOVE STRUCTURES SHALL BE WORKED ON USING THE PART WIDTH CONSTRUCTION SETUP FOR THE CORRESPONDING ROADWAY WORK.

- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0299L:
- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0299R:
- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0622L:
- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0622R:
- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0690L:
- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0690R:

THE ABOVE STRUCTURES SHALL BE WORKED ON USING THE CONSTRUCTION SETUP FOR THE CORRESPONDING ROADWAY WORK.

- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0311:
- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0399:
- 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-76-0516:

TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING WORKING HOURS WHEN ONE LANE MAY BE CLOSED USING FLAGGERS, AS PER STANDARD DRAWING MT-97.10.

SEALING PARAPETS OVER I-76 ROADWAY PORTIONS, SHALL ONLY OCCUR WHEN THE TRAFFIC HAS BEEN REMOVED FROM UNDER THE STRUCTURE.

NO EQUIPMENT OR MATERIAL SHALL BE LOCATED OTHER THAN BEHIND THE DRUMS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

|                        |                      |       |
|------------------------|----------------------|-------|
| DESIGN AGENCY          | DISTRICT THREE       |       |
|                        | OFFICE OF PRODUCTION |       |
| DATE                   | 9/09                 |       |
| REVIEWED               | RDN                  |       |
| DRAWN                  | DCM                  |       |
| DESIGNED               | DCM                  | DJV   |
| STRUCTURE              |                      | NOTES |
| MAINTENANCE OF TRAFFIC |                      |       |
| MED-76-0,61            |                      |       |
| 120                    |                      | 138   |

| STRUCTURE FILE NO. | BRIDGE NO.    | LOCATION                                    | BRIDGE TYPE             | SKEW         | BRIDGE LIMITS | DECK WIDTH | PROPOSED WORK                                                                                                                         |
|--------------------|---------------|---------------------------------------------|-------------------------|--------------|---------------|------------|---------------------------------------------------------------------------------------------------------------------------------------|
|                    |               |                                             |                         |              |               |            |                                                                                                                                       |
|                    |               |                                             |                         |              |               |            |                                                                                                                                       |
| 5202922            | MED-76-0091   | UNDER I - 71                                | 4 SPAN<br>STEEL GIRDER  | 60°46'± R.F. | 419'-0"±      | 72'-0"±    | NO WORK                                                                                                                               |
| 5202957            | MED-76-0095   | UNDER I - 71                                | 4 SPAN<br>STEEL GIRDER  | 59°52'± R.F. | 416'-11"±     | 62'-4"±    | NO WORK                                                                                                                               |
| 5204356            | MED-76-0112 L | OVER CHIPPEWA DITCH                         | 3 SPAN<br>CONCRETE SLAB | 30° R.F.     | 92'-9"±       | 41'-0"±    | DECK OVERLAY, SEALING PARAPETS,<br>WINGWALLS/ABUTMENT AND PIER CAP ENDS                                                               |
| 5204399            | MED-76-0112 R | OVER CHIPPEWA DITCH                         | 3 SPAN<br>CONCRETE SLAB | 30° R.F.     | 92'-5"±       | 59'-10"±   | NO WORK                                                                                                                               |
| 5204429            | MED-76-0158 L | OVER B & O RAILROAD<br>& RYAN RD (C.R. 40). | 4 SPAN<br>STEEL BEAM    | 0°           | 218'-0"±      | 54'-7"±    | DECK SEALING & EXPANSION JOINT REPAIR                                                                                                 |
| 5204437            | MED-76-0158 R | OVER B & O RAILROAD<br>& RYAN RD (C.R. 40). | 4 SPAN<br>STEEL BEAM    | 0°           | 218'-0"±      | 40'-0"±    | DECK SEALING, EXPANSION JOINT REPAIR<br>AND EPOXY INJECTION                                                                           |
| 5200091            | MED-76-0232   | UNDER S.R. 3                                | 4 SPAN<br>STEEL BEAM    | 3° 55'± L.F. | 211'-6"±      | 62'-0"     | NO WORK                                                                                                                               |
| 5204593            | MED-76-0299 L | OVER HUBBARD CREEK                          | 3 SPAN<br>CONCRETE SLAB | 0°           | 99'-0"±       | 38'-0"±    | DECK REPAIR & OVERLAY, SEALING PARAPETS &<br>WINGWALLS/ABUTMENT,<br>EXPANSION JOINT REPAIR                                            |
| 5204658            | MED-76-0299 R | OVER HUBBARD CREEK                          | 3 SPAN<br>CONCRETE SLAB | 0°           | 99'-0"±       | 41'-0"±    | DECK REPAIR & OVERLAY, SEALING PARAPETS &<br>WINGWALLS/ABUTMENT, EXPANSION JOINT REPAIR,<br>APPROACH SLAB REPAIR AND SLOPE PROTECTION |
| 5204682            | MED-76-0311   | UNDER T.H. 93                               | 4 SPAN<br>STEEL BEAM    | 1° 40'± L.F. | 207'-2"±      | 26'-8"±    | DECK & PARAPET SEALING                                                                                                                |
| 5204704            | MED-76-0399   | UNDER C.H. 41                               | 4 SPAN<br>STEEL BEAM    | 1° 40'± L.F. | 207'-2"±      | 28'-0"±    | DECK & PARAPET SEALING                                                                                                                |
| 5204712            | MED-76-0516   | UNDER C.H. 105                              | 4 SPAN<br>STEEL BEAM    | 0°           | 207'-2"±      | 28'-0"±    | DECK & PARAPET SEALING                                                                                                                |
| 5204747            | MED-76-0622 L | OVER C.H. 49                                | 3 SPAN<br>CONCRETE SLAB | 0°           | 112'-0"±      | 43'-4"±    | DECK REPAIR & OVERLAY, SEALING PARAPETS &<br>WINGWALLS/ABUTMENT,<br>EXPANSION JOINT REPAIR                                            |
| 5204771            | MED-76-0622 R | OVER C.H. 49                                | 3 SPAN<br>CONCRETE SLAB | 0°           | 112'-0"±      | 43'-4"±    | DECK OVERLAY, SEALING PARAPETS &<br>WINGWALLS/ABUTMENT,<br>EXPANSION JOINT REPAIR                                                     |
| 5204801            | MED-76-0690 L | OVER RIVER STYX                             | 3 SPAN<br>CONCRETE SLAB | 20° ± R.F.   | 86'-1"±       | 41'-0"±    | DECK REPAIR & OVERLAY, SEALING PARAPETS &<br>WINGWALLS/ABUTMENT,<br>EXPANSION JOINT REPAIR                                            |
| 5204836            | MED-76-0690 R | OVER RIVER STYX                             | 3 SPAN<br>CONCRETE SLAB | 20° ± R.F.   | 86'-1"±       | 41'-0"±    | DECK OVERLAY, SEALING PARAPETS &<br>WINGWALLS/ABUTMENT,<br>EXPANSION JOINT REPAIR                                                     |
|                    |               |                                             |                         |              |               |            |                                                                                                                                       |

STRUCTURE INFORMATION

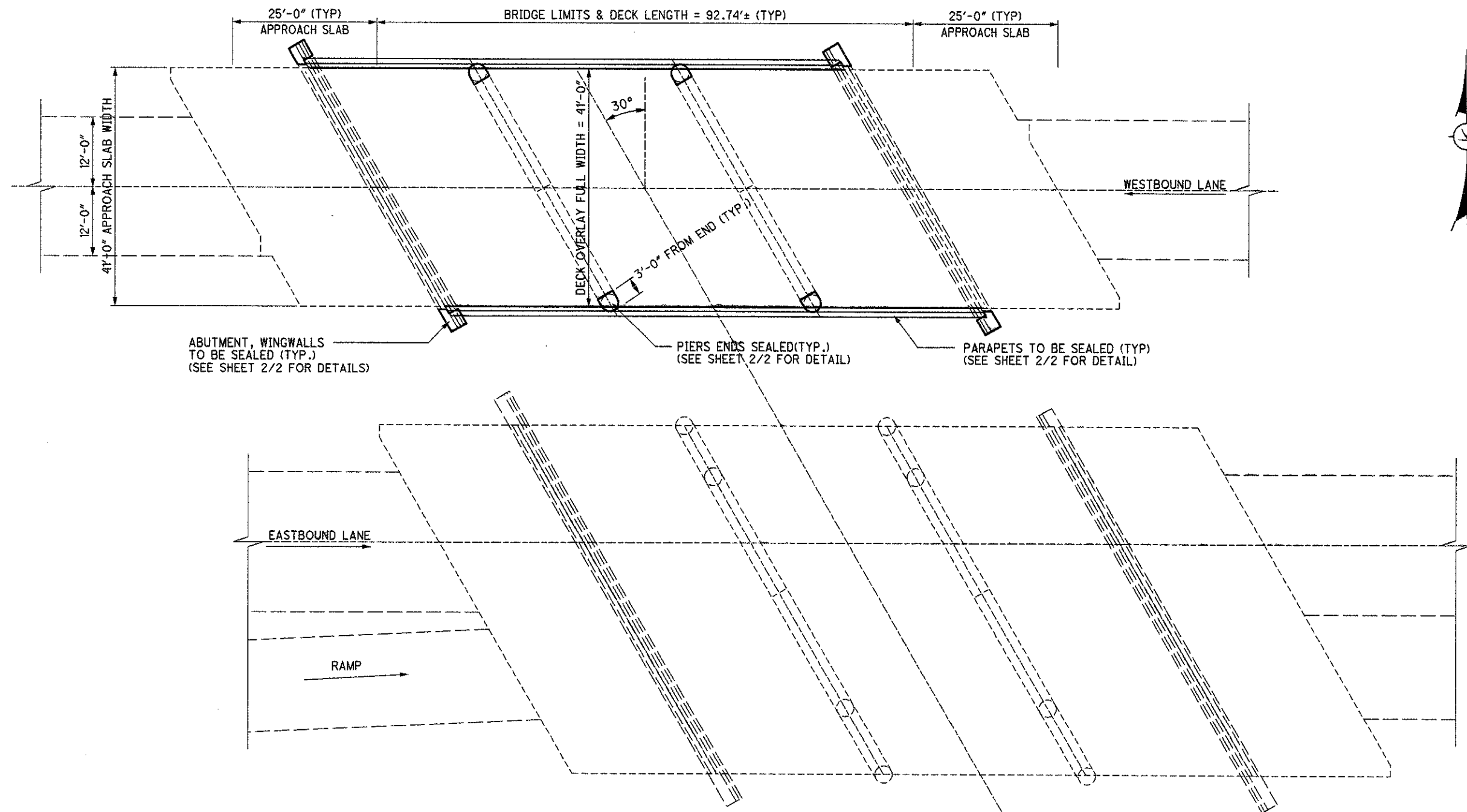
MED-76-0.61

121  
138

DESIGN AGENCY  
 DISTRICT THREE  
 OFFICE OF PRODUCTION

DATE  
 9/09  
 REVIEWED  
 RDN  
 GTS  
 DESIGNED  
 GTS  
 CHECKED  
 DJV

DESIGN FILE: I:\projects\77475\structures\MED76\med760112.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



PLAN VIEW

| ITEM    | QUANTITY |       | UNIT  | DESCRIPTION                                                               |
|---------|----------|-------|-------|---------------------------------------------------------------------------|
|         | 0112L    | 0112R |       |                                                                           |
| SPECIAL | 423      |       | SQ YD | BRIDGE DECK GROOVING                                                      |
| 512     | 208      |       | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                             |
| 847     | 423      |       | SQ YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2 1/4" THICK)       |
| 847     | 12       |       | CU YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN |
| 847     | LUMP     |       |       | TEST SLAB                                                                 |
| 847     | 423      |       | SQ YD | EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2 1/4" NOMINAL THICKNESS) |

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET

NOTES:

1. NO WORK ON THE RIGHT STRUCTURE.
2. GUARDRAIL NOT SHOWN.
3. ON THE LEFT STRUCTURE, THE EXISTING 2" THICK CONCRETE OVERLAY AND 1/4" OF ADDITIONAL DECK THICKNESS, SHALL BE REMOVED USING ITEM 847-EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2 1/4" NOMINAL THICKNESS).
4. THE LEFT STRUCTURE BRIDGE DECK SHALL BE OVERLAYED USING ITEM 847-SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2 1/4" THICK).
5. SEE SHEET 2/2 FOR OVERLAY DETAILS.
6. SEE SHEET 2/2 FOR SEALING DETAILS.

DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

DATE  
9/09  
REVIEWED  
RDN  
STRUCTURE FILE NUMBER  
5204356/5204399

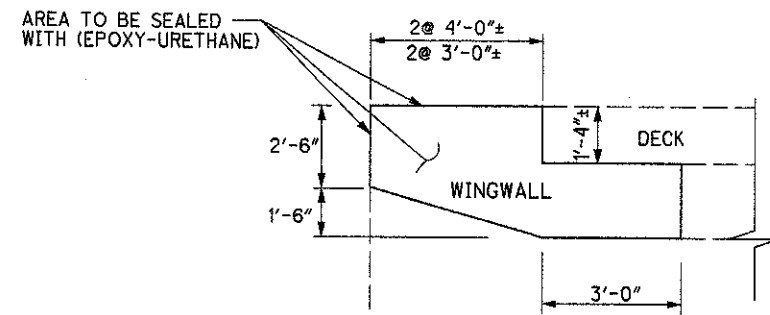
DESIGNED  
GTS  
CHECKED  
DJV  
PLAN VIEW  
MED-76-0112L&R OVER CHIPPEWA DITCH

MED-76-0.61

1 / 2

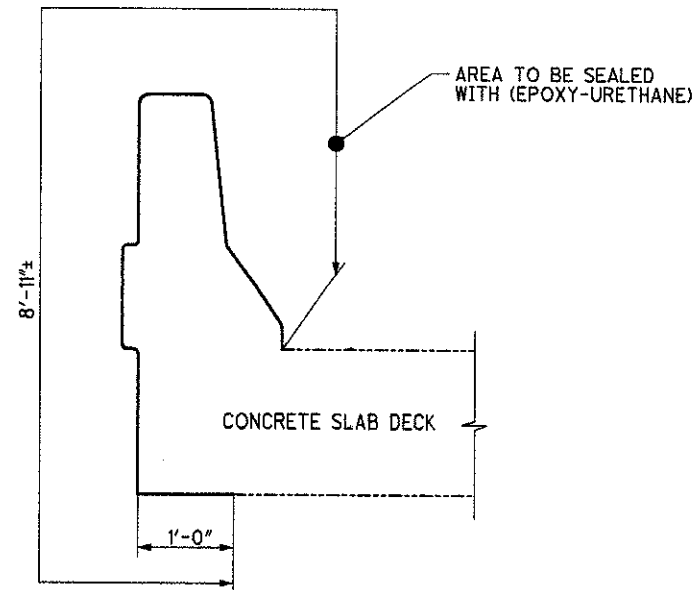
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DESIGN FILE: I:\projects\77475\structures\MED76\med760112.dgn  
WORKSTATION: dmollens  
DATE: 10/14/2009



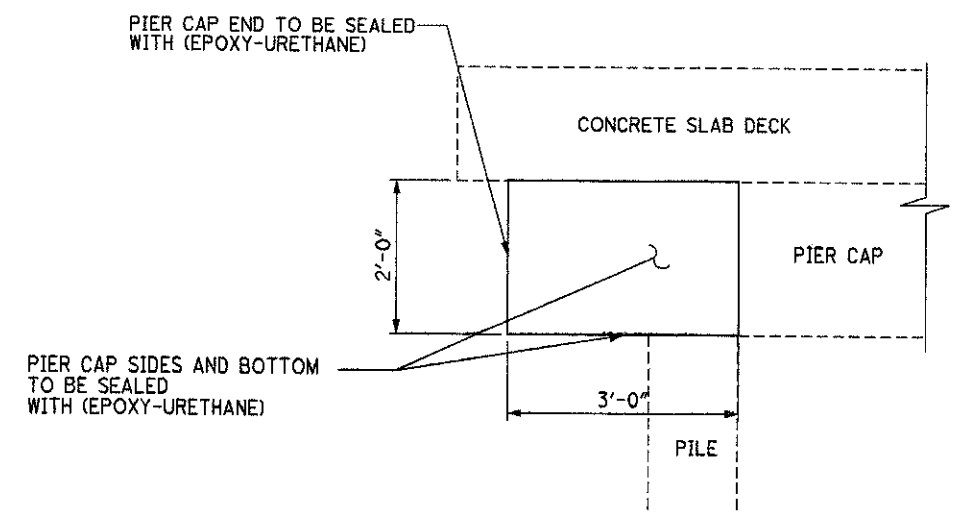
### TYPICAL WINGWALL/ABUTMENT SEALING

(WINGWALLS ARE 1'-3" WIDE)  
LEFT BRIDGE ONLY



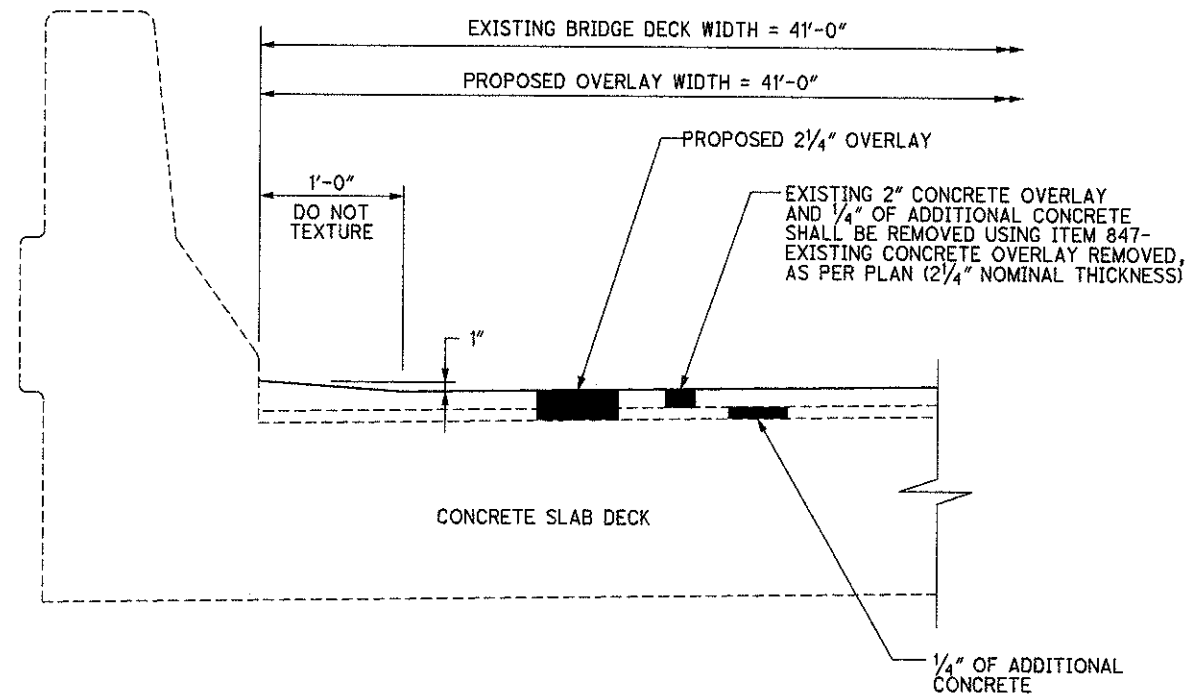
### TYPICAL PARAPET SEALING

LENGTH = 92.8'±(LEFT BRIDGE ONLY)



### TYPICAL PIER CAP SEALING

PIER CAP WIDTH = 3'-0"  
LEFT BRIDGE ONLY



### OVERLAY DETAIL

DECK LENGTH 92'-9"±

#### NOTES:

- 1) THE PARAPETS, WINGWALLS AND PIER CAP ENDS SHALL BE SEALED WITH ITEM 512.

| ITEM | QUANTITY | UNIT  | DESCRIPTION                                   |
|------|----------|-------|-----------------------------------------------|
| 512  | 208      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |

ALL QUANTITIES CARRIED TO SHEET 1/2.

DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

DATE  
9/09  
REVIEWED  
RDN  
STRUCTURE FILE NUMBER  
5204356

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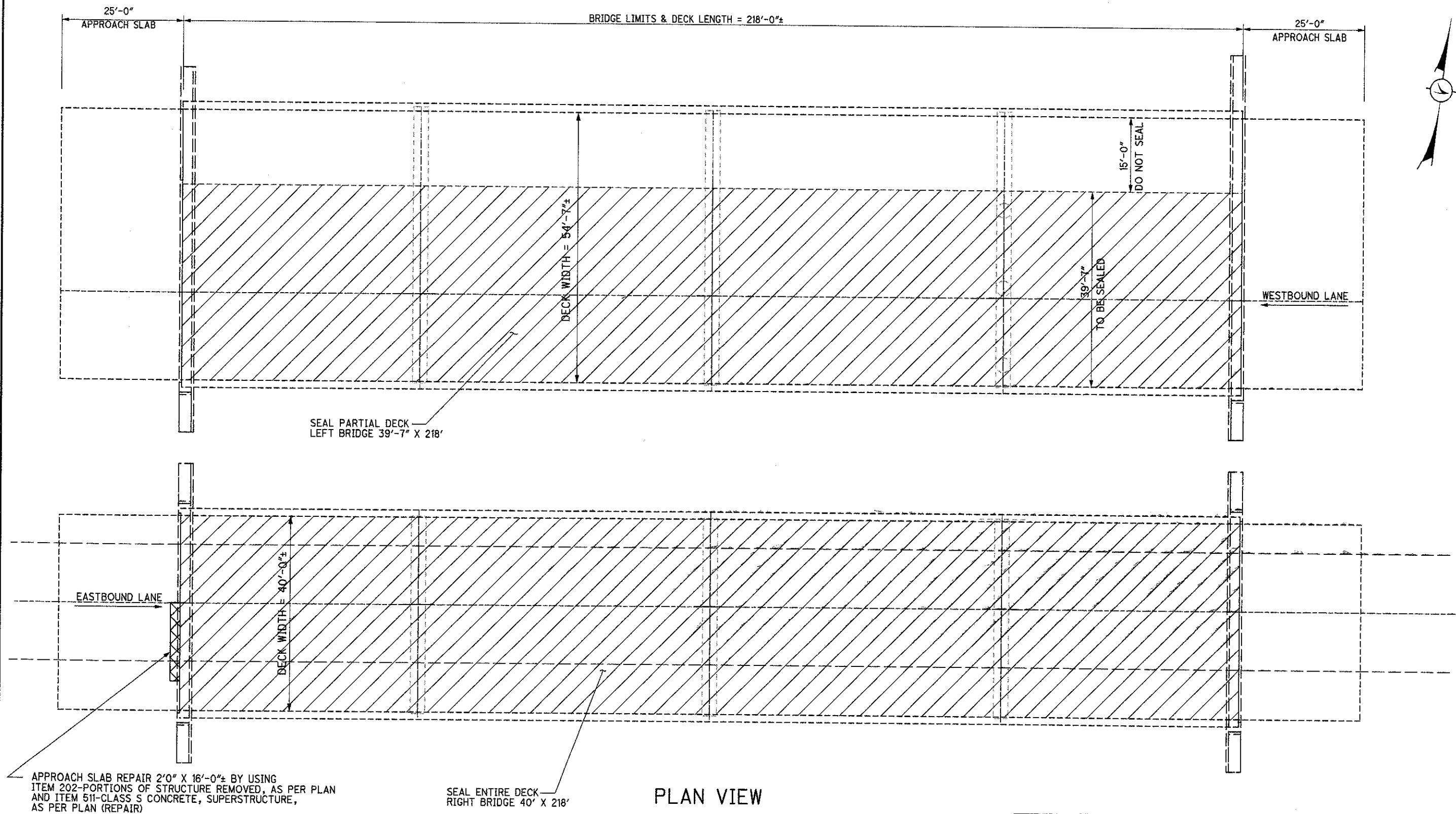
SEALING AND OVERLAY DETAIL  
MED-76-0112L OVER CHIPPEWA DITCH

MED-76-0.61

2 / 2

123  
138

DESIGN FILE: I:\projects\77475\structures\MED76\med760158.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



PLAN VIEW

| ITEM | QUANTITY |       | UNIT  | DESCRIPTION                                            |
|------|----------|-------|-------|--------------------------------------------------------|
|      | 0158L    | 0158R |       |                                                        |
| 202  | 1        |       | CU YD | PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN            |
| 202  | 110      | 80    | FT    | REMOVAL MISC. RUBBER SEAL                              |
| 511  |          | 1     | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR) |
| 512  | 959      | 969   | SQ YD | TREATING OF CONCRETE BRIDGE DECK WITH SRS              |
| 512  |          | 875   | FT    | CONCRETE REPAIR BY EPOXY INJECTION                     |
| 516  | 110      | 80    | FT    | JOINT SEALER                                           |

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET

NOTES:

- GUARDRAIL NOT SHOWN.
- SEAL LARGE CRACKS ON RIGHT STRUCTURE DECK AND APPROACH SLABS AT LOCATIONS TO BE DETERMINED BY THE ENGINEER WITH ITEM 512-CONCRETE REPAIR BY EPOXY INJECTION.
- SEAL ALL OF RIGHT STRUCTURE DECK AND 39'-7" OF LEFT STRUCTURE DECK WITH ITEM 512-TREATING OF CONCRETE BRIDGE DECK WITH SRS.
- REPAIR APPROACH SLAB ON RIGHT STRUCTURE USING ITEM 202 AND 511. SEE SHEET 2/2 FOR DETAILS.
- REMOVE EXISTING COMPRESSION SEAL WITH ITEM 202 AND SEAL JOINT WITH ITEM 516, ON BOTH STRUCTURES. SEE SHEET 2/2 FOR DETAILS.

- ITEM - 512 TREATING OF CONCRETE BRIDGE DECK WITH SRS.
- REPAIR APPROACH SLAB BY USING ITEM 202-PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN AND ITEM 511-CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR)

DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

REVIEWED  
RDN  
DATE  
9/09  
STRUCTURE FILE NUMBER  
5204429/5204437

DRAWN  
GTS  
CHECKED  
D.J.V.

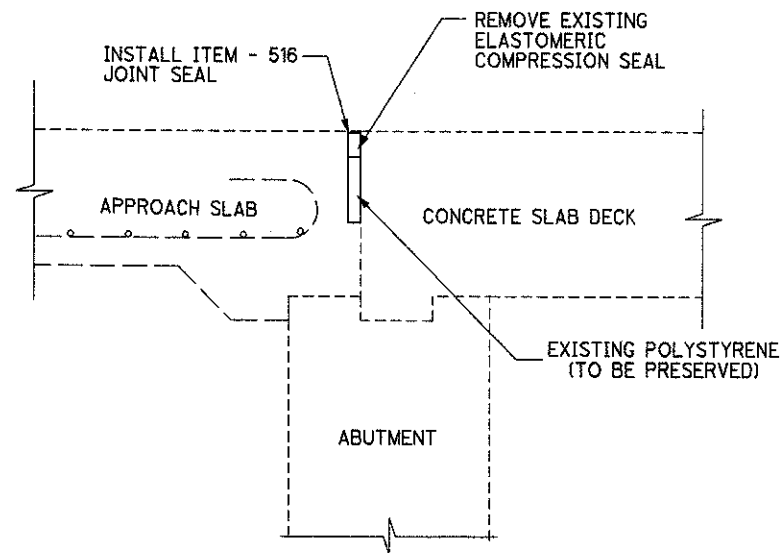
PLAN VIEW  
MED-76-0158 L/R OVER B&O RAILROAD AND  
RYAN ROAD (C.R. 40)

MED-76-0.61

1 / 2

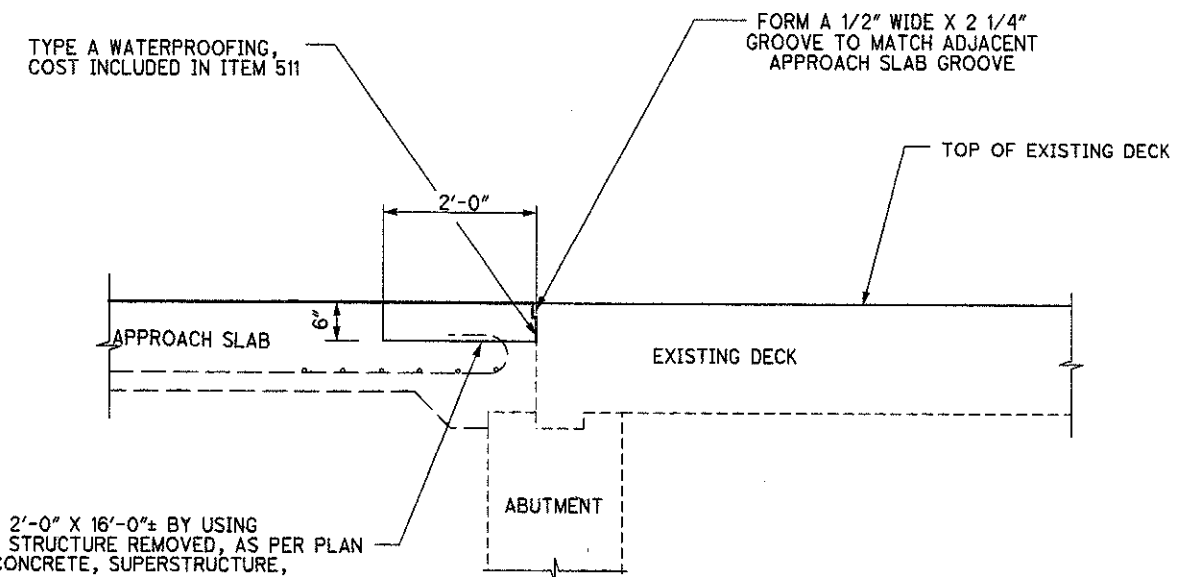
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DESIGN FILE: I:\projects\77475\structures\MED76\med760158.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



### JOINT REPAIR DETAIL

RIGHT BRIDGE WIDTH = 40'-0"  
LEFT BRIDGE WIDTH = 54'-7"



### APPROACH SLAB REPAIR DETAIL

APPROACH SLAB REPAIR 2'-0" X 16'-0"± BY USING  
ITEM 202-PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN  
AND ITEM 511-CLASS S CONCRETE, SUPERSTRUCTURE,  
AS PER PLAN (REPAIR)

| ITEM | QUANTITY |       | UNIT  | DESCRIPTION                                            |
|------|----------|-------|-------|--------------------------------------------------------|
|      | 0158L    | 0158R |       |                                                        |
| 202  | 110      | 80    | FT    | REMOVAL MISC.: RUBBER SEAL                             |
| 202  |          | 1     | CU YD | PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN            |
| 511  |          | 1     | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR) |
| 516  | 110      | 80    | FT    | JOINT SEALER                                           |

ALL QUANTITIES CARRIED TO SHEET 1/2.

#### NOTES:

- 1) THE APPROACH SLAB SHALL BE REPAIRED ON THE RIGHT STRUCTURE USING ITEMS 202 AND 511.
- 2) THE EXPANSION JOINT SHALL BE SEALED USING ITEMS 202 AND 516 ON BOTH STRUCTURES.

DESIGN AGENCY  
**DISTRICT THREE**  
OFFICE OF PRODUCTION

DATE  
9/09  
REVIEWED  
RDN  
STRUCTURE FILE NUMBER  
5204429/5204437

DRAWN  
GTS  
DESIGNED  
GTS  
CHECKED  
D.JV

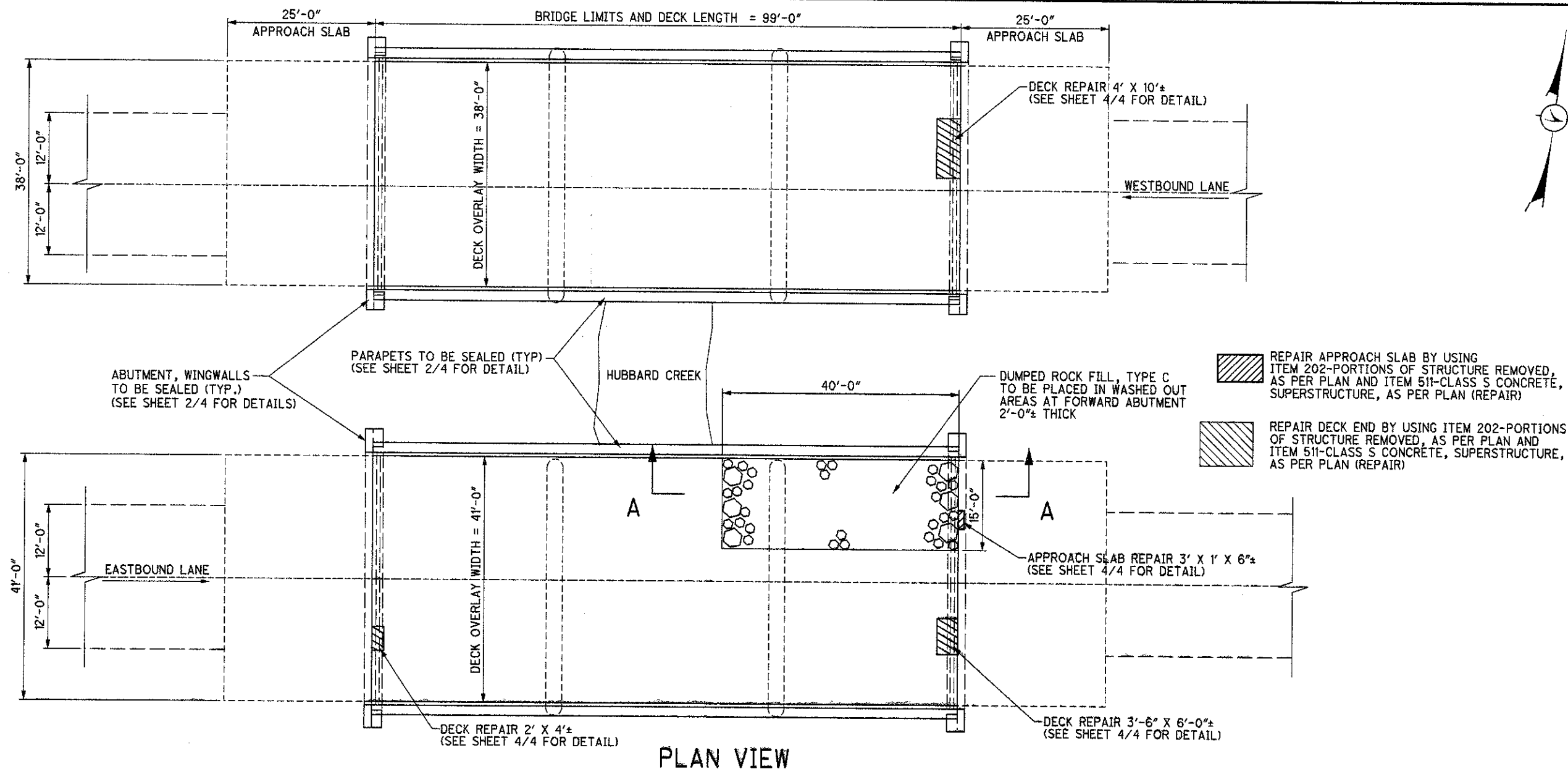
PLAN VIEW  
**MED-76-0158 E/R OVER B&O RAILROAD AND  
RYAN ROAD (C.R. 40)**

**MED-76-0.61**

2 / 2

125  
138

DESIGN FILE: I:\projects\77475\structures\MED76\med760299.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



PLAN VIEW

| ITEM    | QUANTITY |       | UNIT  | DESCRIPTION                                                               |
|---------|----------|-------|-------|---------------------------------------------------------------------------|
|         | 0299L    | 0299R |       |                                                                           |
| 202     | 1.1      | 1.1   | CU YD | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN                                |
| 202     | 76       | 82    | FT    | REMOVAL MISC.: RUBBER SEAL                                                |
| 511     | 1.1      | 1.1   | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR)                    |
| SPECIAL | 418      | 451   | SQ YD | BRIDGE DECK GROOVING                                                      |
| 512     | 209      | 209   | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                             |
| 516     | 76       | 82    | FT    | JOINT SEALER                                                              |
| 601     |          | 44    | CU YD | DUMPED ROCK FILL, TYPE C                                                  |
| 847     | 418      | 451   | SQ YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2 1/4" THICK)       |
| 847     | 11       | 12    | CU YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN |
| 847     | LUMP     | LUMP  |       | TEST SLAB                                                                 |
| 847     | 418      | 451   | SQ YD | EXISTING CONCRETE OVERLAY REMOVED (2 1/4" NOMINAL THICKNESS)              |
|         |          |       |       |                                                                           |
|         |          |       |       |                                                                           |
|         |          |       |       |                                                                           |
|         |          |       |       |                                                                           |

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET

NOTES:

1. GUARDRAIL NOT SHOWN.
2. THE EXISTING 2" THICK CONCRETE OVERLAY AND 1/4" OF ADDITIONAL DECK THICKNESS, 41'-0" (RIGHT BRIDGE) AND 38'-0" (LEFT BRIDGE) WIDE SHALL BE REMOVED USING ITEM 847-EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2 1/4" NOMINAL THICKNESS).
3. PATCH ENDS OF EXISTING DECK AFTER OVERLAY HAS BEEN REMOVED AT LOCATIONS SHOWN ABOVE AND PER DETAILS ON SHEET 4/4 USING ITEMS 202 AND 511.
4. 41'-0" (RIGHT BRIDGE) AND 38'-0" (LEFT BRIDGE) OF THE BRIDGE DECK SHALL BE OVERLAYED USING ITEM 847-SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2 1/4" THICK).
5. SEE SHEET 3/4 FOR OVERLAY DETAIL.
6. SEE SHEET 2/4 FOR SEALING AND SLOPE PROTECTION DETAILS.

DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

DATE  
9/09  
REVIEWED  
RDN  
STRUCTURE FILE NUMBER  
5204593/5204658

DRAWN  
GTS  
DESIGNED  
GTS  
CHECKED  
DJV

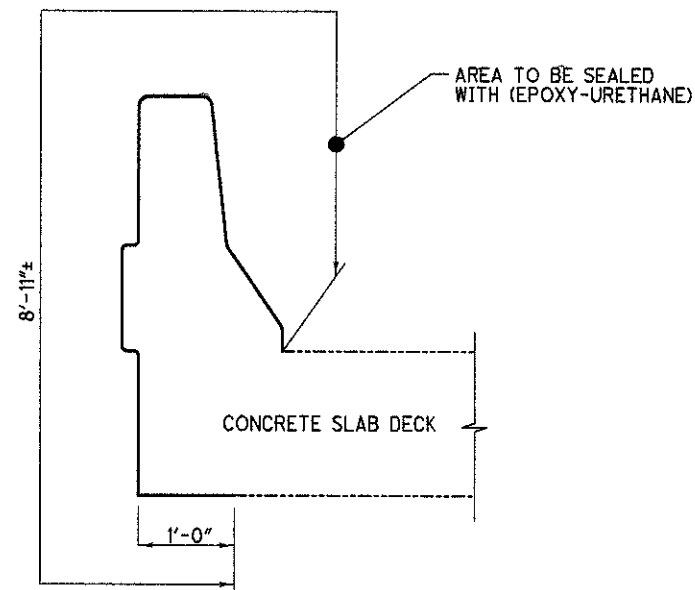
PLAN VIEW  
MED-76-0299 L/R OVER HUBBARD CREEK

MED-76-0.61

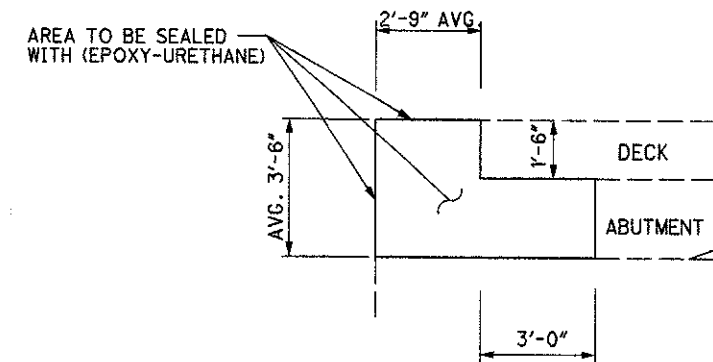
1 / 4

126  
138

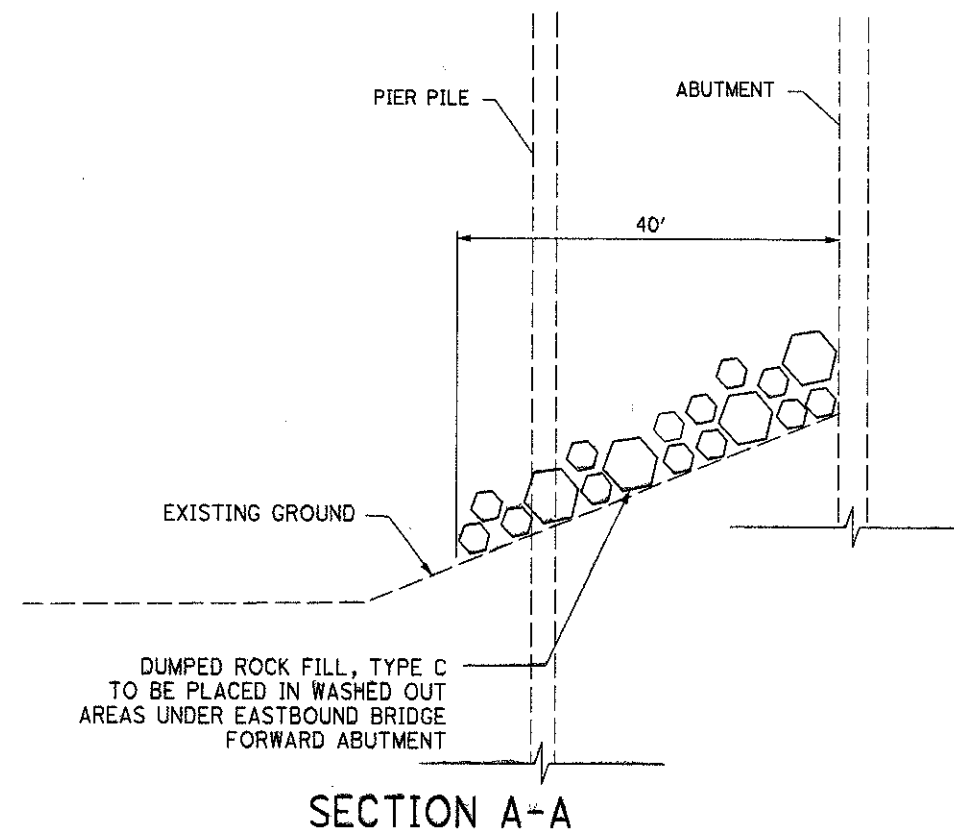
DESIGN FILE: I:\projects\77475\structures\MED76\med760299.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



TYPICAL SECTION  
AT PARAPET  
LENGTH = 99'± (TYPICAL)



TYPICAL WINGWALL/ABUTMENT  
SECTION  
(WINGWALLS ARE 1'-3" WIDE)



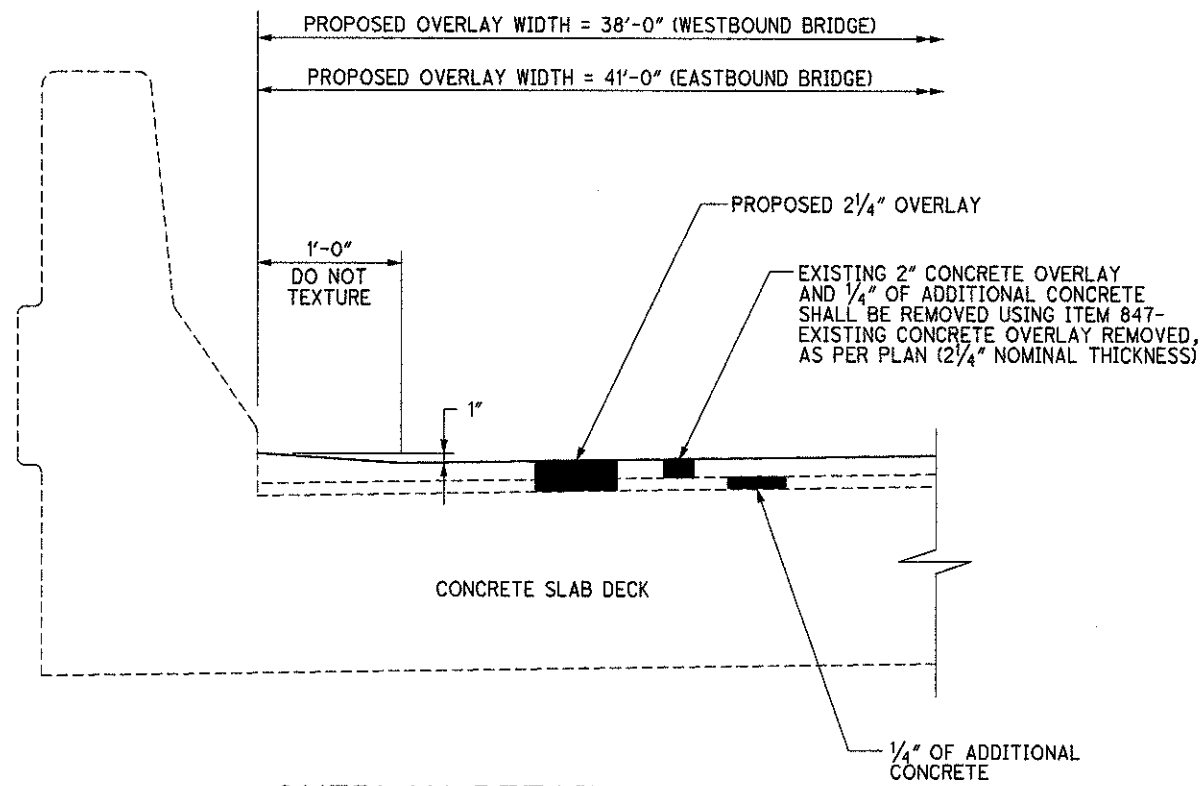
| ITEM | QUANTITY |       | UNIT  | DESCRIPTION                                   |
|------|----------|-------|-------|-----------------------------------------------|
|      | 0299L    | 0299R |       |                                               |
| 512  | 209      | 209   | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |
| 601  |          | 44    | CU YD | DUMPED ROCK FILL, TYPE C                      |
|      |          |       |       |                                               |
|      |          |       |       |                                               |

ALL QUANTITIES CARRIED TO SHEET 1/4.

NOTES:

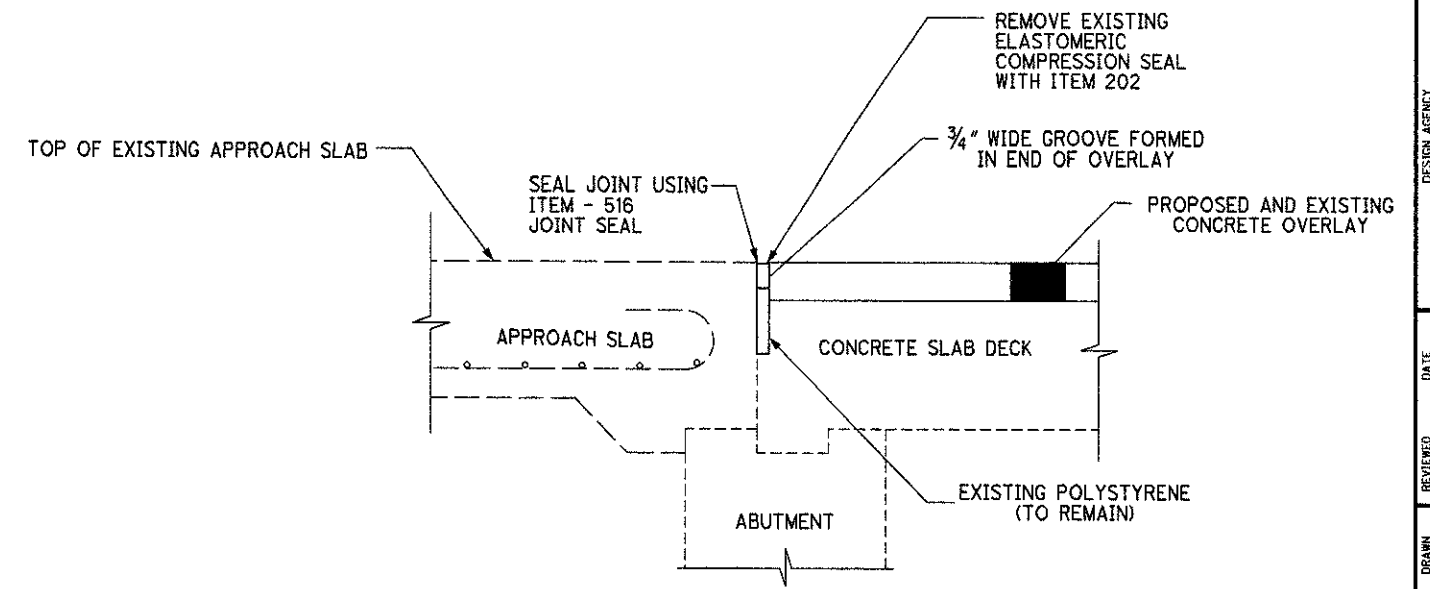
- 1) THE PARAPETS AND WINGWALLS SHALL BE SEALED WITH ITEM 512.
- 2) THE DUMPED ROCK FILL SHALL BE PLACED AT THE LOCATION ON SHEET 1/4.

DESIGN FILE: I:\projects\77475\structures\MED76\med760299.dgn  
WORKSTATION:dmollens DATE:10/14/2009



### OVERLAY DETAIL

DECK LENGTH 99'-0"±



### JOINT SEALING DETAIL

LEFT BRIDGE WIDTH = 38'-0"±  
RIGHT BRIDGE WIDTH = 41'-0"±

| ITEM | QUANTITY |       | UNIT | DESCRIPTION                |
|------|----------|-------|------|----------------------------|
|      | 0299L    | 0299R |      |                            |
| 202  | 76       | 82    | FT   | REMOVAL MISC.: RUBBER SEAL |
| 516  | 76       | 82    | FT   | JOINT SEALER               |
|      |          |       |      |                            |
|      |          |       |      |                            |

ALL QUANTITIES CARRIED TO SHEET 1/4.

DESIGN AGENCY  
**DISTRICT THREE**  
**OFFICE OF PRODUCTION**

DATE  
9/09  
REVIEWED  
RDN  
STRUCTURE FILE NUMBER  
5204593/5204658

DRAWN  
GTS  
DESIGNED  
GTS  
CHECKED  
DJV

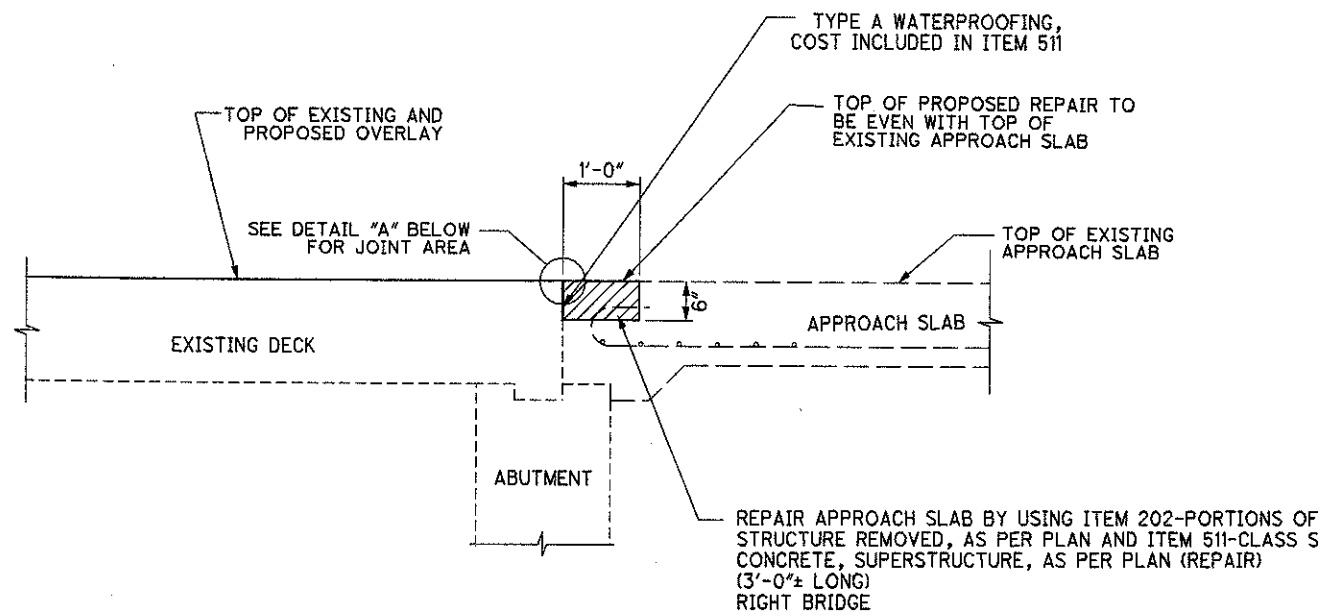
**OVERLAY AND JOINT SEALING DETAIL**  
**MED-76-0299 L/R OVER HUBBARD CREEK**

**MED-76-0.61**

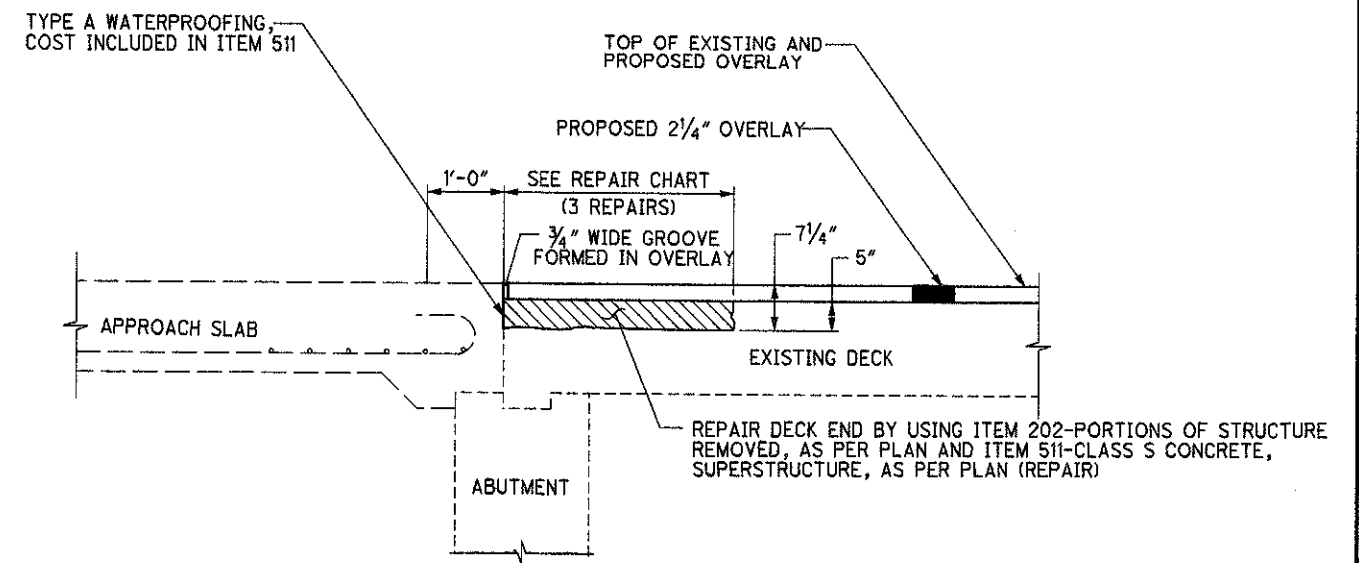
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128  
138

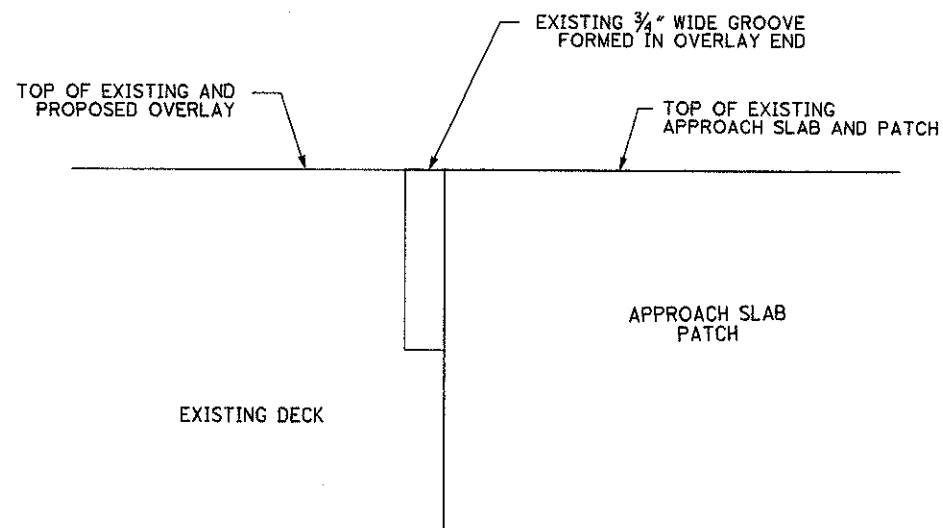
DESIGN FILE: I:\projects\77475\structures\MED76\med760299.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



APPROACH SLAB REPAIR DETAIL



DECK END REPAIR DETAIL



DETAIL "A"

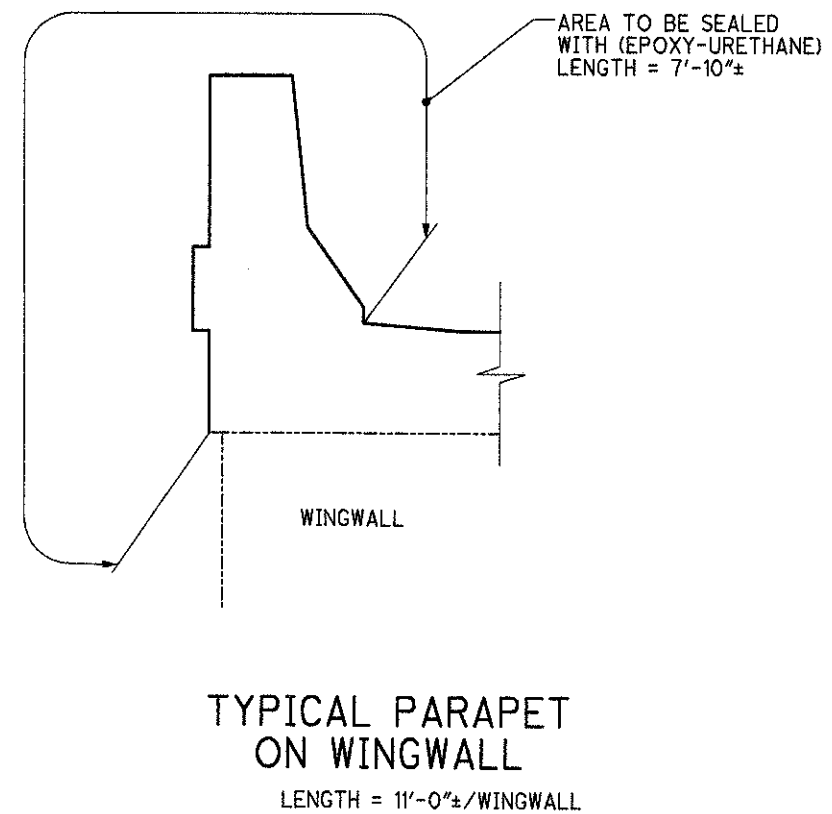
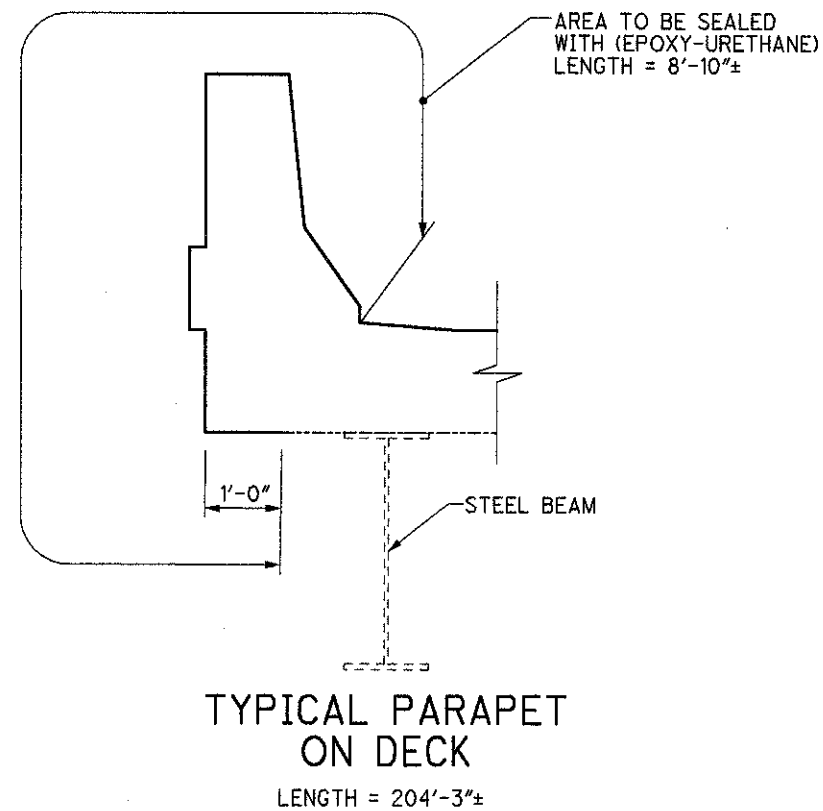
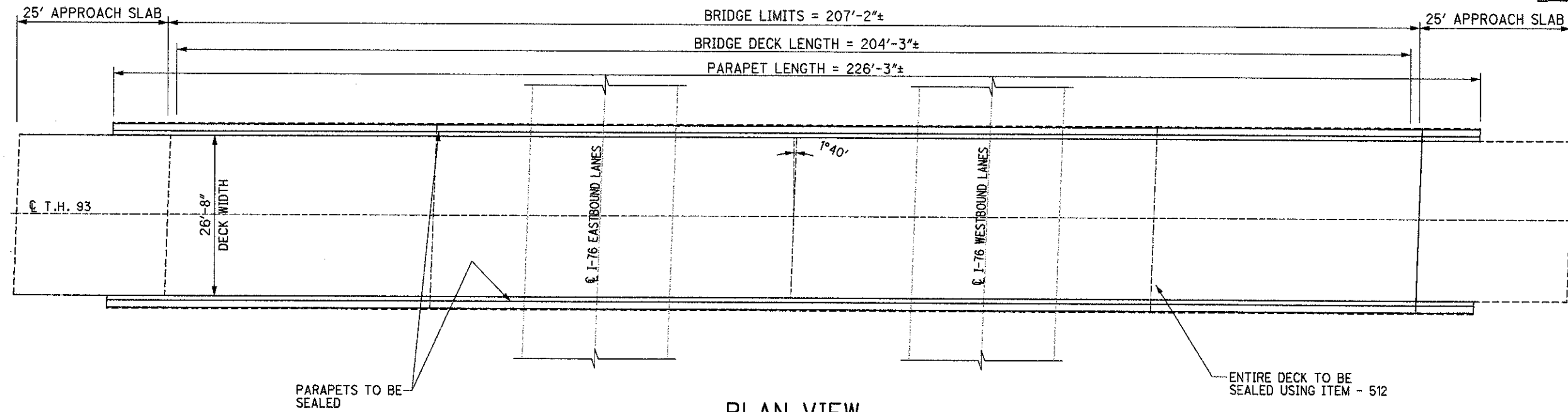
- REPAIR APPROACH SLAB BY USING ITEM 202-PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN AND ITEM 511-CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR)
- REPAIR DECK END BY USING ITEM 202-PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN AND ITEM 511-CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR)

| DECK END REPAIR CHART |        |       |                                   |
|-----------------------|--------|-------|-----------------------------------|
| LENGTH                | WIDTH  | DEPTH | LOCATION                          |
| 10'-0"±               | 4'-0"± | 5"±   | FORWARD ABUTMENT, WESTBOUND LEFT  |
| 6'-0"±                | 3'-6"± | 5"±   | FORWARD ABUTMENT, EASTBOUND RIGHT |
| 4'-0"±                | 2'-0"± | 5"±   | REAR ABUTMENT, EASTBOUND RIGHT    |

| ITEM | QUANTITY |       | UNIT  | DESCRIPTION                                            |
|------|----------|-------|-------|--------------------------------------------------------|
|      | 0299L    | 0299R |       |                                                        |
| 202  | 1.1      | 1.1   | CU YD | PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN            |
| 511  | 1.1      | 1.1   | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR) |

ALL QUANTITIES CARRIED TO SHEET 1/4.

DESIGN FILE: I:\projects\77475\structures\MED76\med760311.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



| ITEM | QUANTITY | UNIT  | DESCRIPTION                                   |
|------|----------|-------|-----------------------------------------------|
| 512  | 441      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |
| 512  | 606      | SQ YD | TREATING OF CONCRETE BRIDGE DECK WITH SRS     |
|      |          |       |                                               |
|      |          |       |                                               |
|      |          |       |                                               |
|      |          |       |                                               |
|      |          |       |                                               |

QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET

NOTES:

- 1) GUARDRAIL NOT SHOWN.
- 2) THE PARAPETS SHALL BE SEALED WITH ITEM 512-SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).
- 3) THE ENTIRE DECK SHALL BE SEALED WITH ITEM 512-TREATING OF CONCRETE BRIDGE DECK WITH SRS.

DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

DATE  
9/09  
REVIEWED  
RDN  
STRUCTURE FILE NUMBER  
5204682  
DRAWN  
GTS  
REVISED  
DESIGNED  
GTS  
CHECKED  
DJV

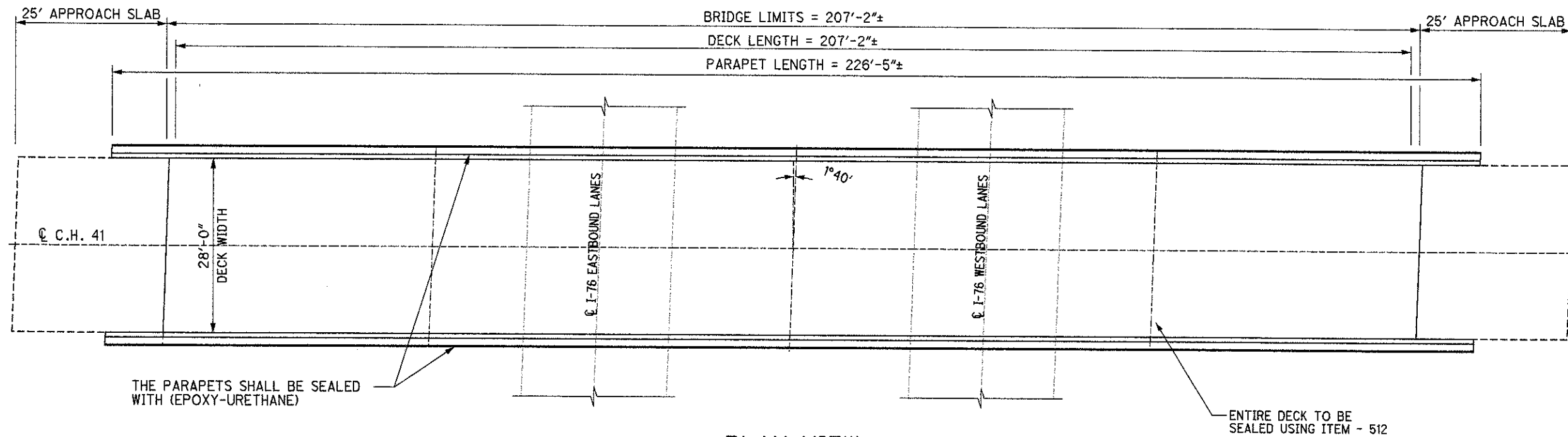
PLAN VIEW  
MED-76-0311 OVER T.H. 93

MED-76-0.61

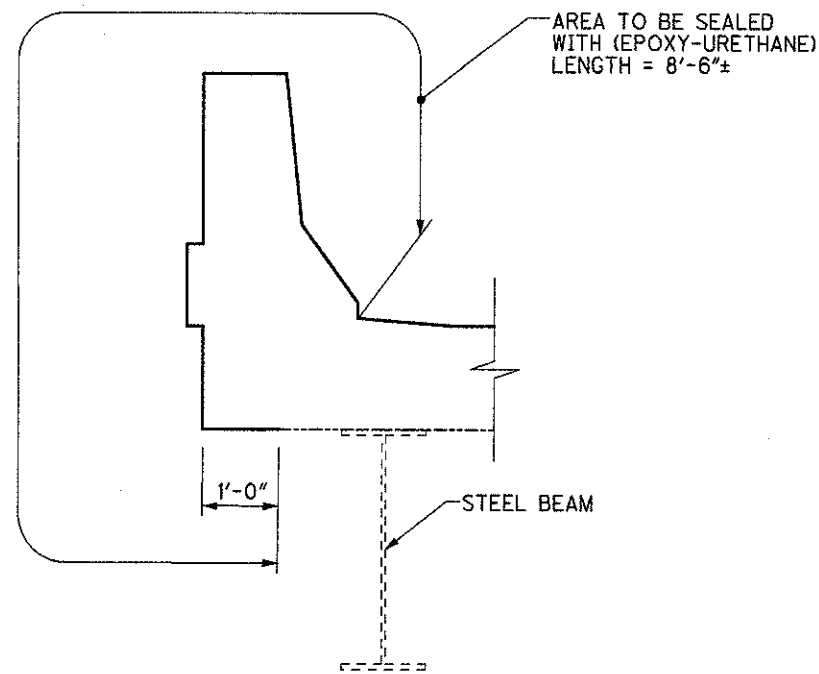
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130  
138

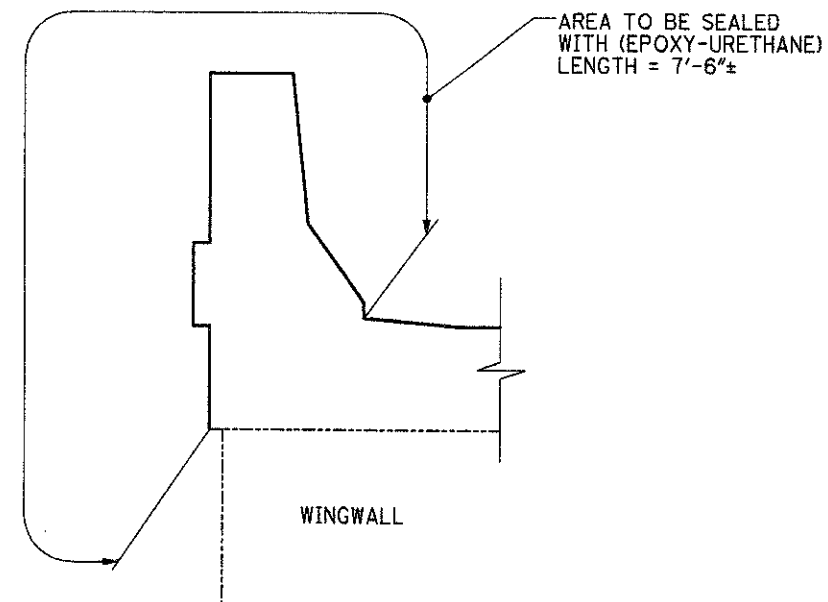
DESIGN FILE: i:\projects\77475\structures\MED76\med760399.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



PLAN VIEW



TYPICAL PARAPET ON DECK  
LENGTH = 204'-5"±



TYPICAL PARAPET ON WINGWALL  
LENGTH = 11'-0"±/WINGWALL

| ITEM | QUANTITY | UNIT  | DESCRIPTION                                   |
|------|----------|-------|-----------------------------------------------|
| 512  | 424      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |
| 512  | 645      | SQ YD | TREATING OF CONCRETE BRIDGE DECK WITH SRS     |

QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET

NOTES:

- 1) GUARDRAIL NOT SHOWN.
- 2) THE PARAPETS SHALL BE SEALED WITH ITEM 512-SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).
- 3) THE ENTIRE DECK SHALL BE SEALED WITH ITEM 512-TREATING OF CONCRETE BRIDGE DECK WITH SRS.

DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

DATE  
9/09  
REVIEWED  
RDN  
DRAWN  
GTS  
DESIGNED  
GTS  
CHECKED  
DJV

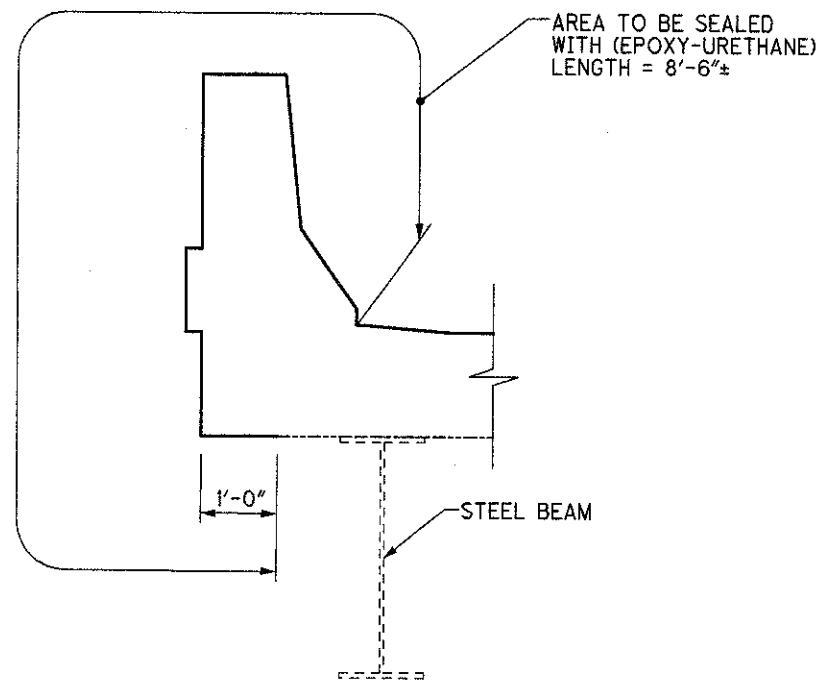
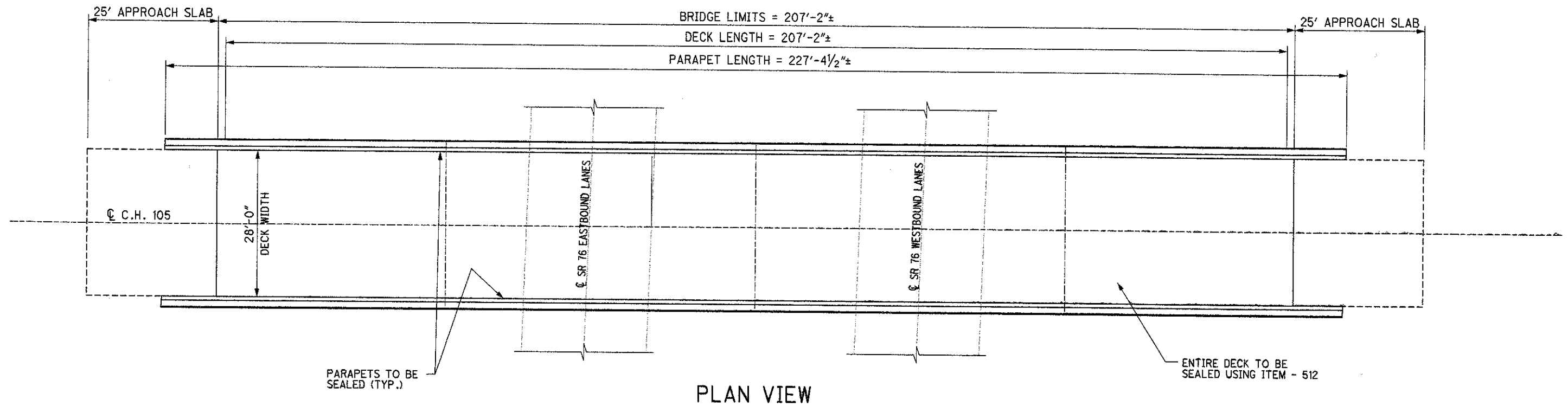
PLAN VIEW  
MED-76-0399 UNDER C.H. 41

MED-76-0.61

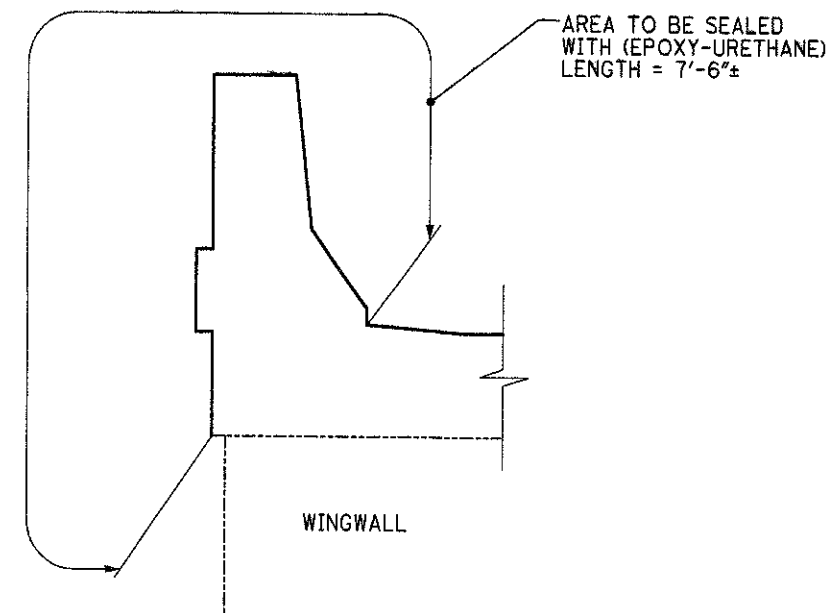
1 / 1

131  
138

DESIGN FILE: I:\projects\77475\structures\MED76\med760516.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



TYPICAL PARAPET ON DECK  
LENGTH = 204'-4 1/2"±



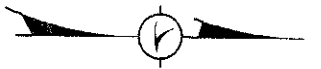
TYPICAL PARAPET ON WINGWALL  
LENGTH = 11'-6"±/WINGWALL

| ITEM | QUANTITY | UNIT  | DESCRIPTION                                   |
|------|----------|-------|-----------------------------------------------|
| 512  | 426      | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |
| 512  | 645      | SQ YD | TREATING OF CONCRETE BRIDGE DECK WITH SRS     |

QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET

NOTES:

- 1) GUARDRAIL NOT SHOWN.
- 2) THE PARAPETS SHALL BE SEALED WITH ITEM 512-SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).
- 3) THE ENTIRE DECK SHALL BE SEALED WITH ITEM 512-TREATING OF CONCRETE BRIDGE DECK WITH SRS.



DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

DATE  
9/09  
RDN  
STRUCTURE FILE NUMBER  
5204712

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DESIGNED  
GTS  
CHECKED  
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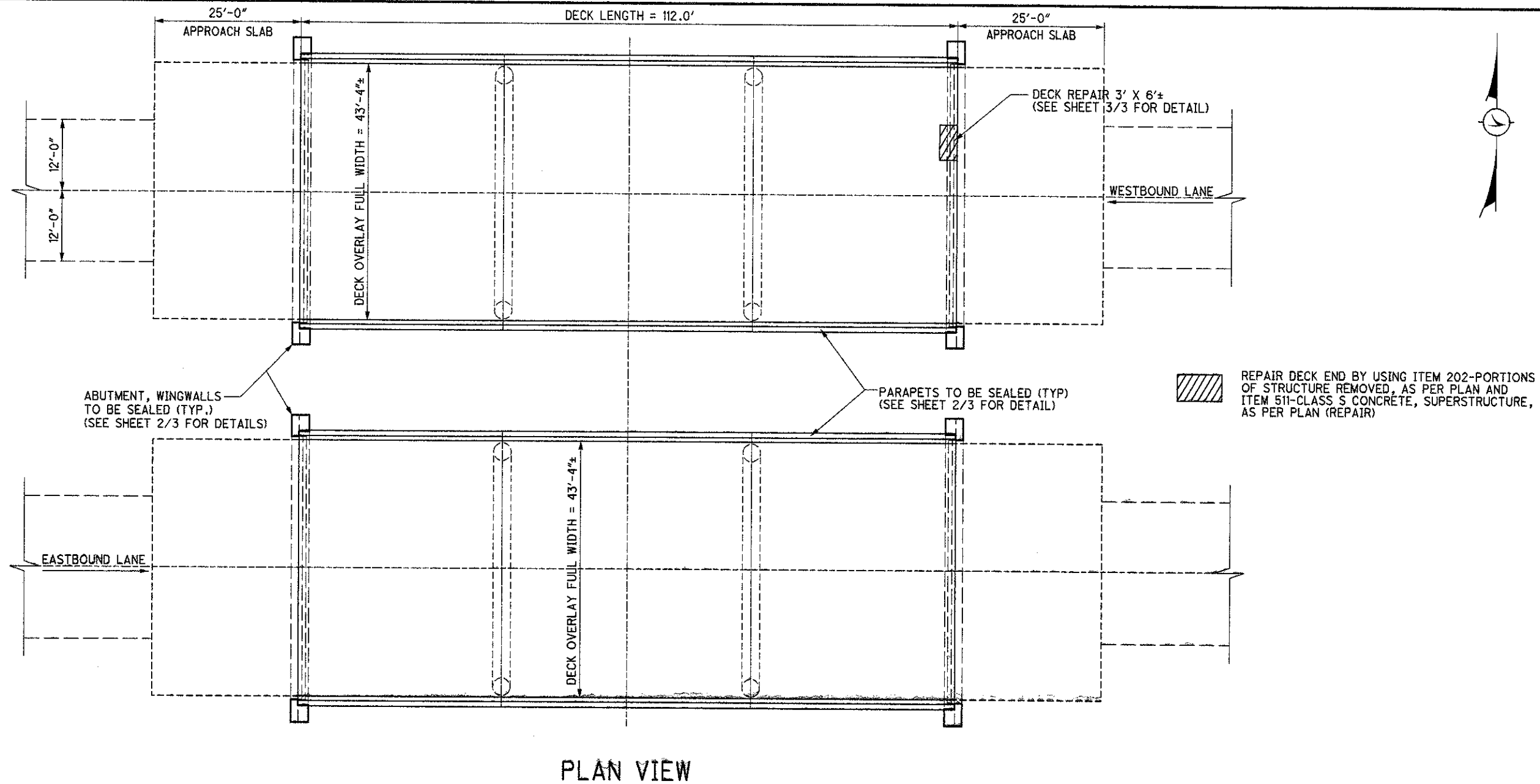
PLAN VIEW  
MED-76-0516 UNDER C.H. 105

MED-76-0.61

1 / 1

132  
138

DESIGN FILE: i:\projects\77475\structures\MED76\med760622.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



| ITEM    | QUANTITY |       | UNIT  | DESCRIPTION                                                               |
|---------|----------|-------|-------|---------------------------------------------------------------------------|
|         | 0622L    | 0622R |       |                                                                           |
| 202     | .3       |       | CU YD | PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN                               |
| 202     | 87       | 87    | FT    | REMOVAL MISC.: RUBBER SEAL                                                |
| 511     | .3       |       | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR)                    |
| SPECIAL | 540      | 540   | SQ YD | BRIDGE DECK GROOVING                                                      |
| 512     | 244      | 244   | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                             |
| 516     | 87       | 87    | FT    | JOINT SEALER                                                              |
| 847     | 540      | 540   | SQ YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2 1/4" THICK)       |
| 847     | 15       | 14    | CU YD | SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN |
| 847     | LUMP     | LUMP  |       | TEST SLAB                                                                 |
| 847     | 540      | 540   | SQ YD | EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2 1/4" NOMINAL THICKNESS) |

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET

NOTES:

1. GUARDRAIL NOT SHOWN.
2. REMOVE EXISTING RUBBER SEAL IN JOINT BETWEEN APPROACH SLAB AND DECK.
3. THE EXISTING 2" THICK CONCRETE OVERLAY AND 1/4" OF ADDITIONAL DECK THICKNESS, SHALL BE REMOVED USING ITEM 847-EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2 1/4" NOMINAL THICKNESS).
4. PATCH ENDS OF EXISTING DECK AFTER OVERLAY HAS BEEN REMOVED AT THE LOCATION SHOWN ABOVE AND DETAILS ON SHEET 3/3 USING ITEMS 202 AND 511.
5. THE BRIDGE DECKS SHALL BE OVERLAYED USING ITEM 847-SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2 1/4" THICK).
6. SEAL JOINT WITH ITEM 516.
7. SEE SHEET 3/3 FOR OVERLAY DETAILS.
8. SEE SHEET 2/3 FOR SEALING DETAILS.

PLAN VIEW  
MED-76-0622 L/R OVER C.H. 49

MED-76-0.61

1 / 3

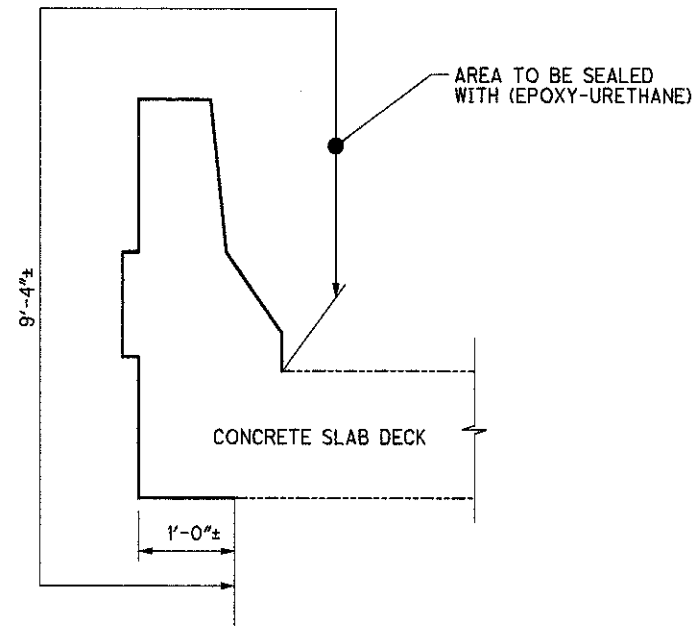
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DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

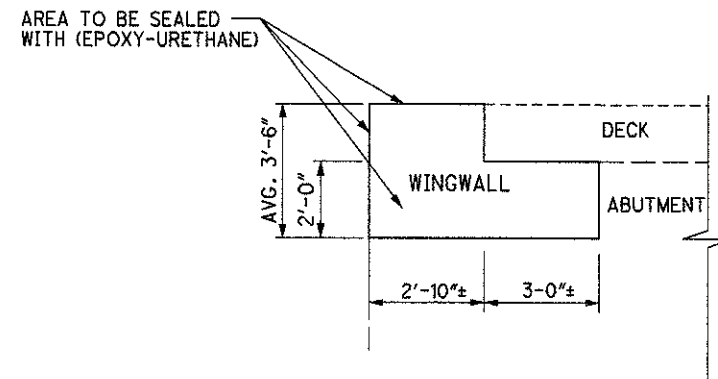
DATE  
9/09  
RDN  
STRUCTURE FILE NUMBER  
5204747/5204771

DRAWN  
GTS  
DESIGNED  
GTS  
CHECKED  
DJV

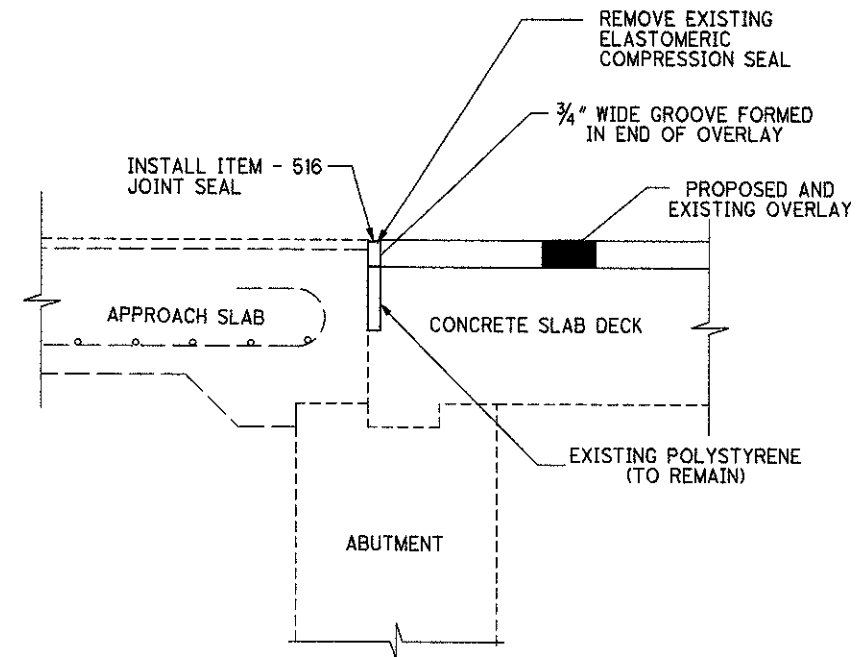
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WORKSTATION: dmollens  
DATE: 10/14/2009



TYPICAL SECTION  
AT PARAPET  
LENGTH = 112'± (LEFT AND RIGHT BRIDGE)



TYPICAL WINGWALL/ABUTMENT  
SECTION  
(WINGWALLS ARE 1'-3" WIDE)



JOINT SEALING DETAIL

RIGHT BRIDGE WIDTH = 43'-4"  
LEFT BRIDGE WIDTH = 43'-4"

| ITEM | QUANTITY |       | UNIT  | DESCRIPTION                                   |
|------|----------|-------|-------|-----------------------------------------------|
|      | 0622L    | 0622R |       |                                               |
| 202  | 87       | 87    | FT    | REMOVAL MISC.: RUBBER SEAL                    |
| 512  | 244      | 244   | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |
| 516  | 87       | 87    | FT    | JOINT SEALER                                  |
|      |          |       |       |                                               |
|      |          |       |       |                                               |

ALL QUANTITIES CARRIED TO SHEET 1/3.

NOTES:

- 1) THE PARAPETS AND WINGWALLS/ABUTMENTS SHALL BE SEALED WITH ITEM 512.

SEALING DETAILS  
MED-76-0622 L/R OVER C.H. 49

MED-76-0.61

DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

REVIEWED  
RDN  
DATE  
9/09  
STRUCTURE FILE NUMBER  
5204747/5204771

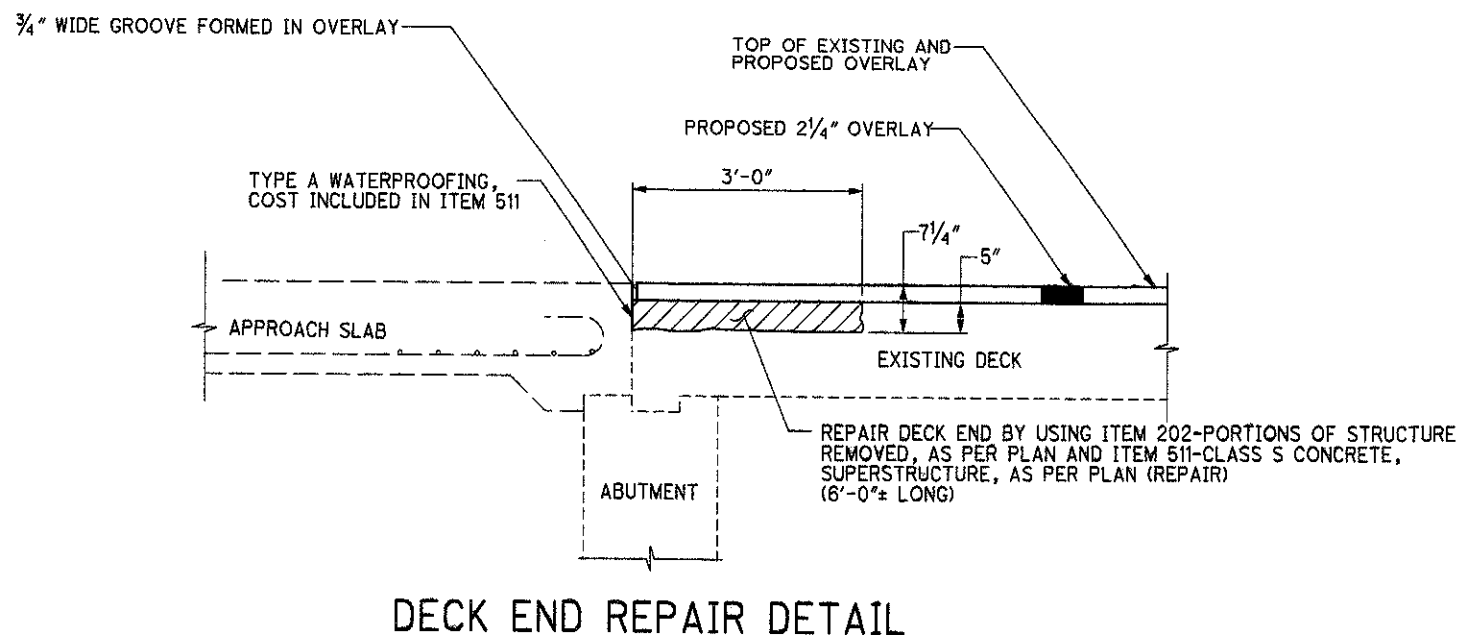
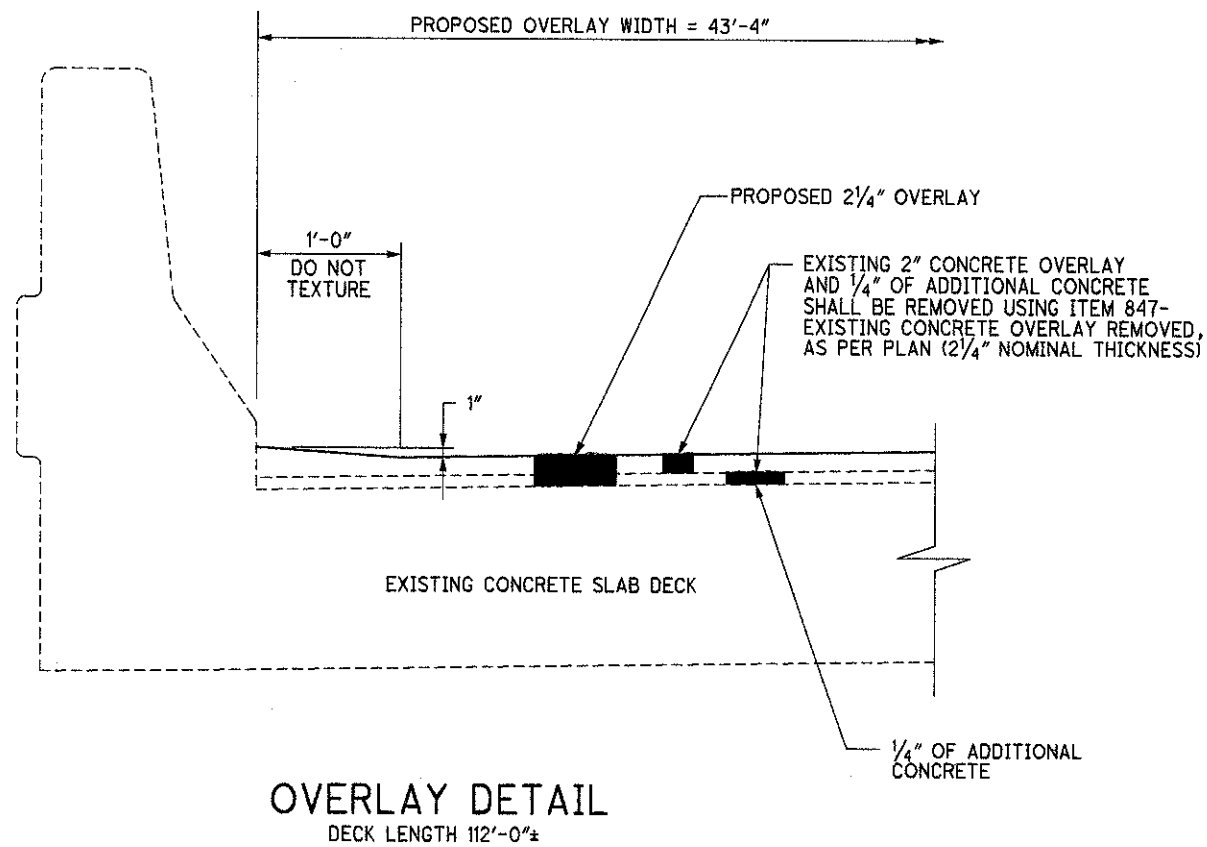
DESIGNED  
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CHECKED  
DJV

DRAWN  
GTS  
REVISED

2 / 3

134  
138

DESIGN FILE: i:\projects\77475\structures\MED76\med760622.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



| ITEM | QUANTITY |       | UNIT  | DESCRIPTION                                            |
|------|----------|-------|-------|--------------------------------------------------------|
|      | 0622L    | 0622R |       |                                                        |
| 202  | .3       |       | CU YD | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN             |
| 511  | .3       |       | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR) |

ALL QUANTITIES CARRIED TO SHEET 1/3.

DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

DATE  
9/09  
REVIEWED  
RDN  
STRUCTURE FILE NUMBER  
5204747/5204771

DRAWN  
GTS  
DESIGNED  
GTS  
CHECKED  
DJV

OVERLAY AND DECK END REPAIR DETAIL  
MED-76-0622 L/R OVER C.H. 49

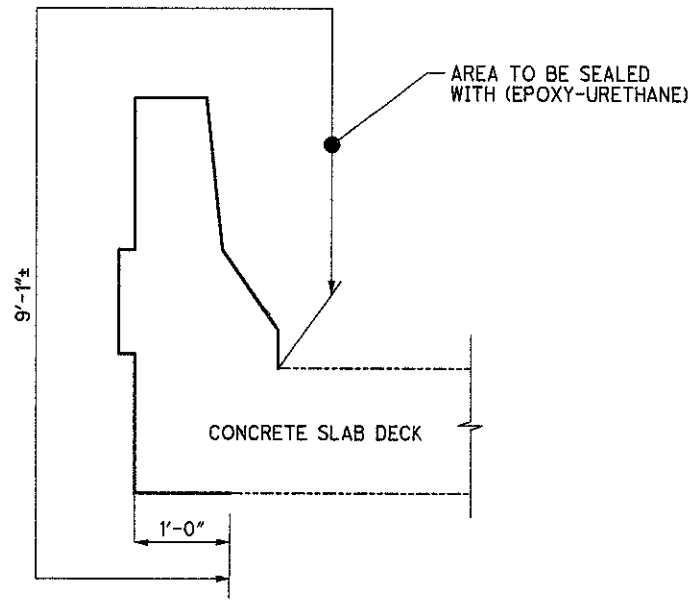
MED-76-0.61

3 / 3

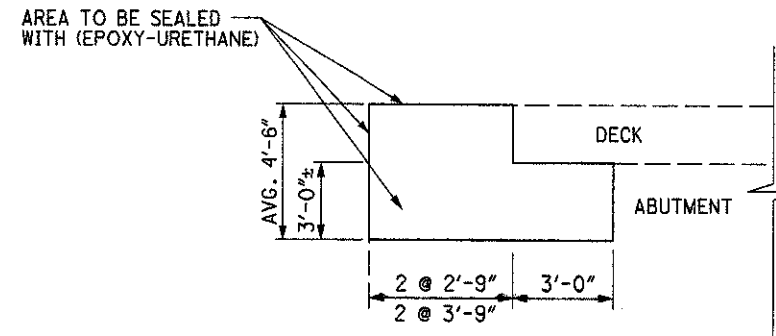
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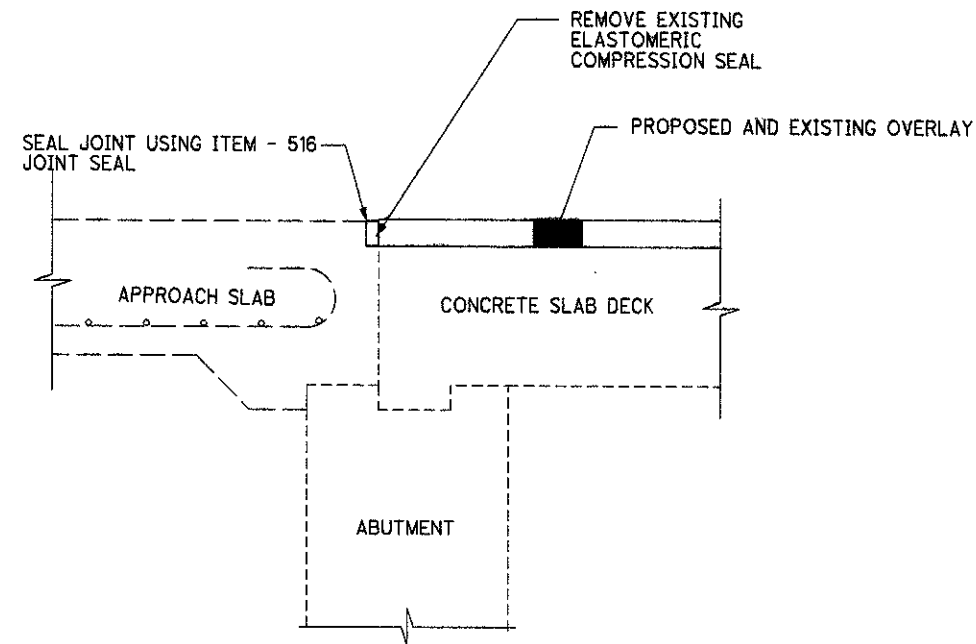
DESIGN FILE: I:\projects\77475\structures\MED76\med760690.dgn  
WORKSTATION: dmollens DATE: 10/14/2009



**TYPICAL SECTION  
AT PARAPET**  
LENGTH = 86'-1 1/2" (LEFT AND RIGHT BRIDGE)



**TYPICAL WINGWALL/ABUTMENT  
SECTION**  
(WINGWALLS ARE 1'-3" WIDE)



**JOINT SEALING DETAIL**  
RIGHT BRIDGE WIDTH = 41'-0"  
LEFT BRIDGE WIDTH = 41'-0"

| ITEM | QUANTITY |       | UNIT  | DESCRIPTION                                   |
|------|----------|-------|-------|-----------------------------------------------|
|      | 0690L    | 0690R |       |                                               |
| 202  | 88       | 88    | FT    | REMOVAL MISC.: RUBBER SEAL                    |
| 512  | 190      | 190   | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |
| 516  | 88       | 88    | FT    | JOINT SEALER                                  |
|      |          |       |       |                                               |
|      |          |       |       |                                               |

ALL QUANTITIES CARRIED TO SHEET 1/3.

**NOTES:**

- 1) THE PARAPETS AND WINGWALLS SHALL BE SEALED WITH ITEM 512.
- 2) THE JOINT SHALL BE SEALED USING ITEM-516.

DESIGN AGENCY  
**DISTRICT THREE**  
**OFFICE OF PRODUCTION**

DATE  
9/09  
REVIEWED  
RDN  
DRAWN  
GTS  
DESIGNED  
GTS  
CHECKED  
DJV  
STRUCTURE FILE NUMBER  
5204801/5204836

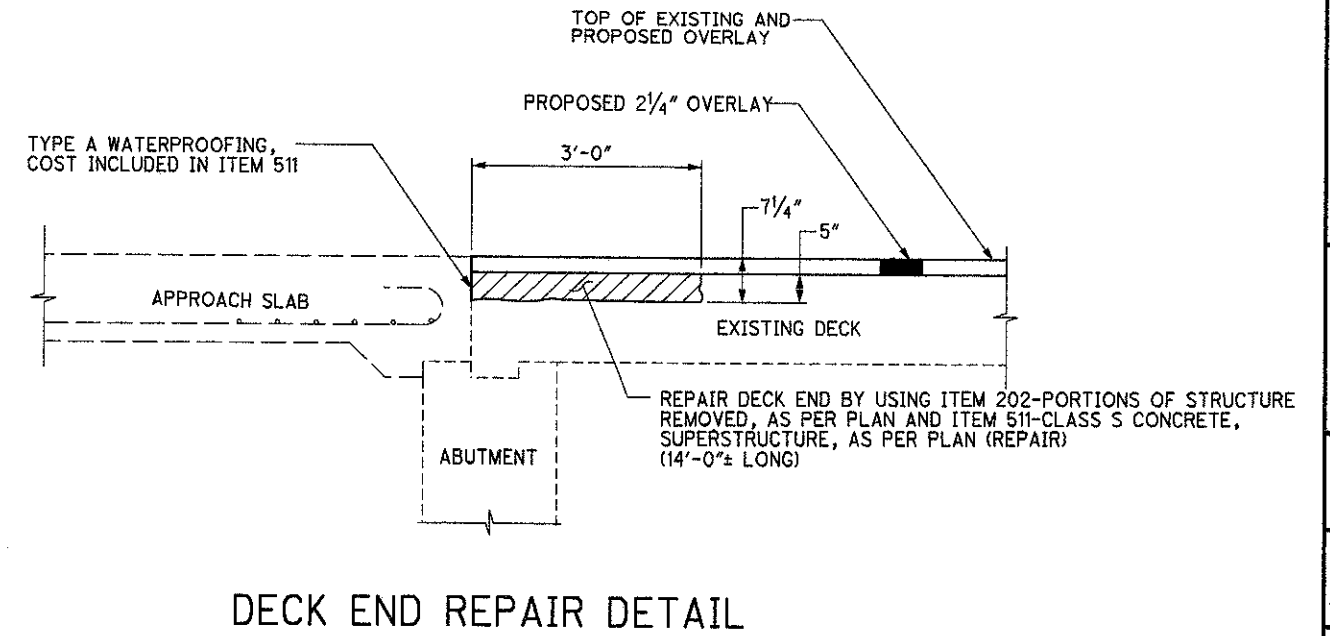
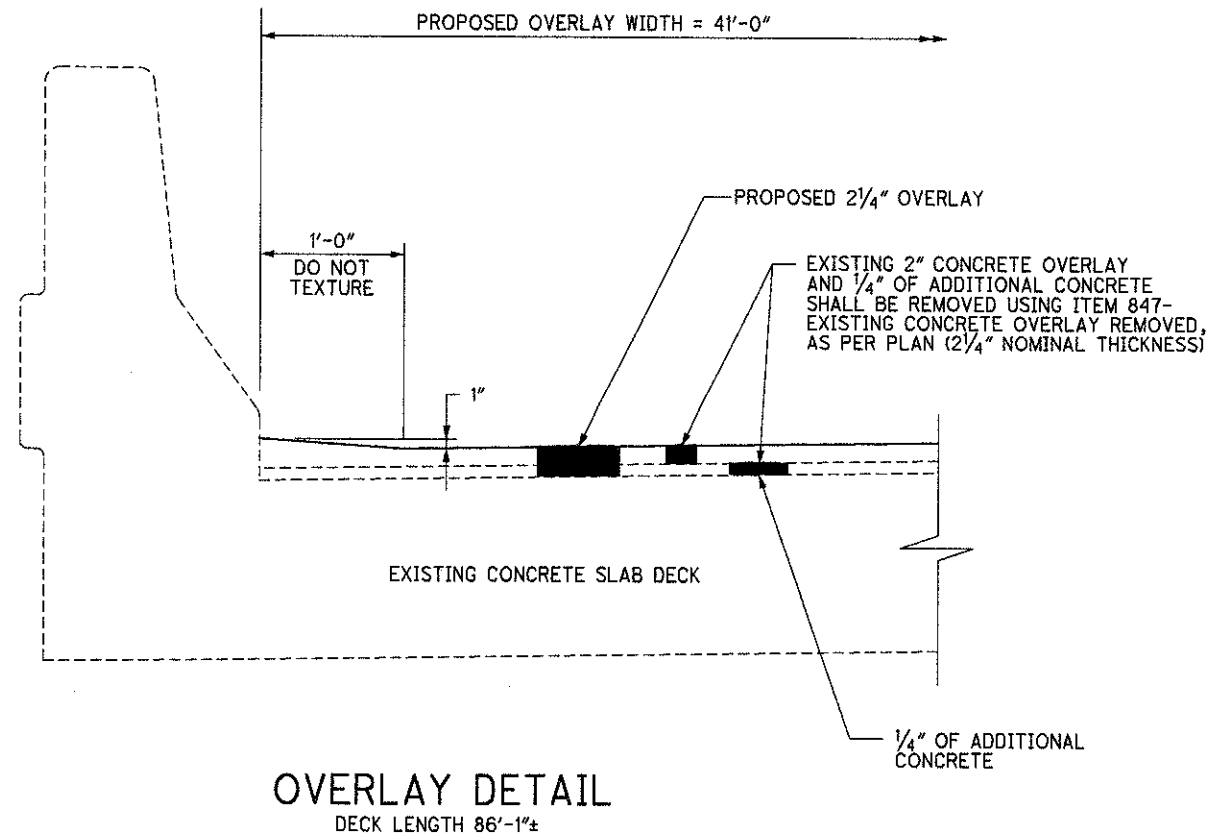
**SEALING DETAILS**  
**MED-76-0690 L/R OVER RIVER STYX**

**MED-76-0.61**

2 / 3

137  
138

DESIGN FILE: i:\projects\77475\structures\MED76\med760690.dgn  
WORKSTATION: dmliens DATE: 10/14/2009



| ITEM | QUANTITY |       | UNIT  | DESCRIPTION                                            |
|------|----------|-------|-------|--------------------------------------------------------|
|      | 0690L    | 0690R |       |                                                        |
| 202  | 1.3      |       | CU YD | PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN            |
| 511  | 1.3      |       | CU YD | CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR) |
|      |          |       |       |                                                        |
|      |          |       |       |                                                        |

ALL QUANTITIES CARRIED TO SHEET 1/3.

DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

DATE  
9/09  
REVIEWED  
RDN  
STRUCTURE FILE NUMBER  
5204801/5204836  
DRAWN  
GTS  
REVIS  
DESIGNED  
GTS  
CHECKED  
DJV

OVERLAY AND DECK END REPAIR DETAIL  
MED-76-0690 L/R OVER RIVER STYX

MED-76-0.61

3 / 3

138  
138