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 REVISED CODE OF OHIO.

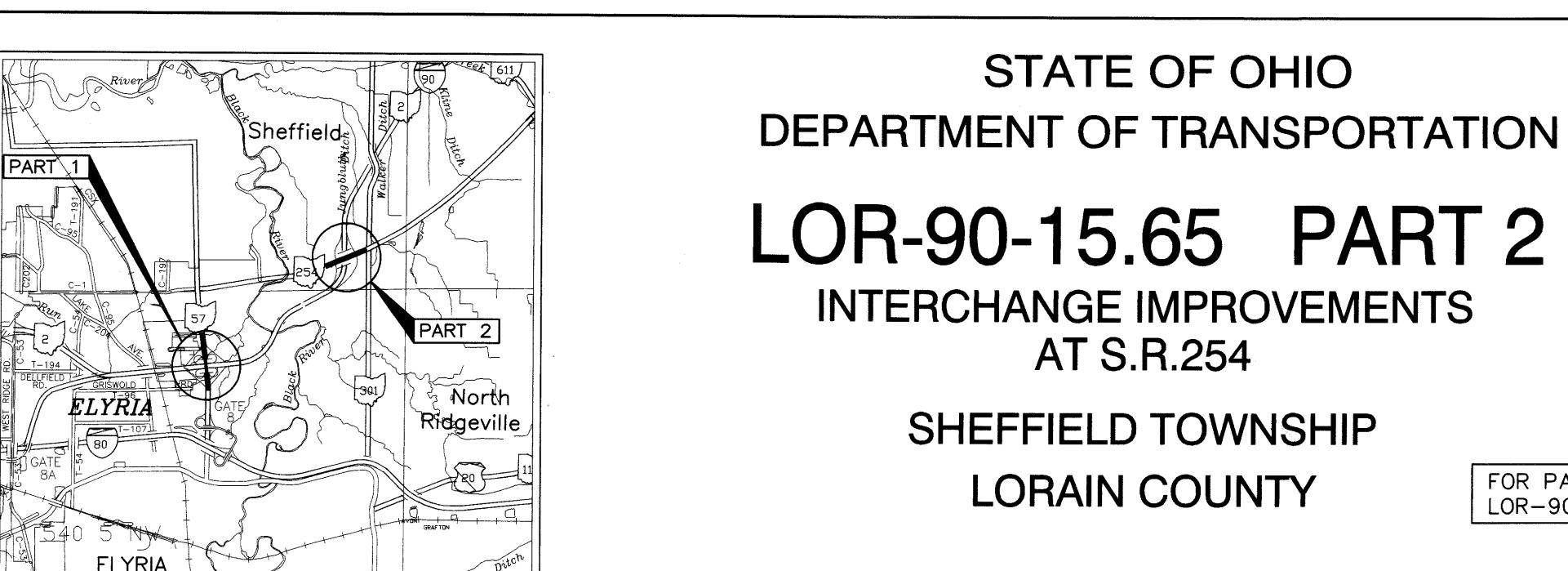
1997 SPECIFICATIONS

PART 2 (15.65)

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

MAINTENANCE OF TRAFFIC ENDORSEMENT

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



LOCATION MAP

SCALE IN MILES

PORTION TO BE IMPROVED STATE & FEDERAL ROUTES

DESIGN EXCEPTIONS NONE REQUIRED

OTHER ROADS

DESIGN DESIGNATION SEE SCHEMATIC PLAN

PART 2: SR-254 INTERCHANGE TITLE SHEET SCHEMATIC PLAN & DESIGN DESIGNATIONS TYPICAL SECTIONS GENERAL NOTES MAINTENANCE OF TRAFFIC GENERAL SUMMARY SUBSUMMARIES PAVEMENT ELEVATION TABLES STORMWATER POLLUTION PREVENTION PLAN PLAN AND PROFILES, SR-254 PLAN AND PROFILES, RAMP L CROSS SECTIONS DRIVE PROFILES & DETAILS INTERSECTION DETAILS MISCELLANEOUS DETAILS WATER WORK PAVEMENT MARKING AND SIGNAGE SIGNALIZATION

INDEX OF SHEETS:

HIGHWAY LIGHTING

RIGHT-OF-WAY

STRUCTURES OVER 20'

NOTE: SHEETS 37, 39, 117 THRU 122,

AND 160 AND 159 ARE NOT USED.

STATE OF OHIO

INTERCHANGE IMPROVEMENTS

AT S.R.254

SHEFFIELD TOWNSHIP

LORAIN COUNTY

32 - 36, 38 40 - 4364 - 106107 - 109, 109A 110 - 112113 - 114115 - 122 123 - 124,124A-C,125 - 129 130, 130A - 131,131A-I31 I 132, 132A, 132B 133 - 156 157 - 158, 161160, 159

FOR PART 1 SEE

LOR-90-13.20

UNDERGROUND UTILITIES TWO WORKING DAYS BEFORE YOU DIG CALL 1-800-362-2764 (TOLL FREE) OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY

PLAN PREPARED BY:

CONSULTING ENGINEERS

THREE KING JAMES PARK · SUITE 300 24600 CENTER RIDGE ROAD WESTLAKE, OHIO 44145 TELEPHONE (440) 835-9400

> **ENGINEERS SEAL:** WEGLICKI

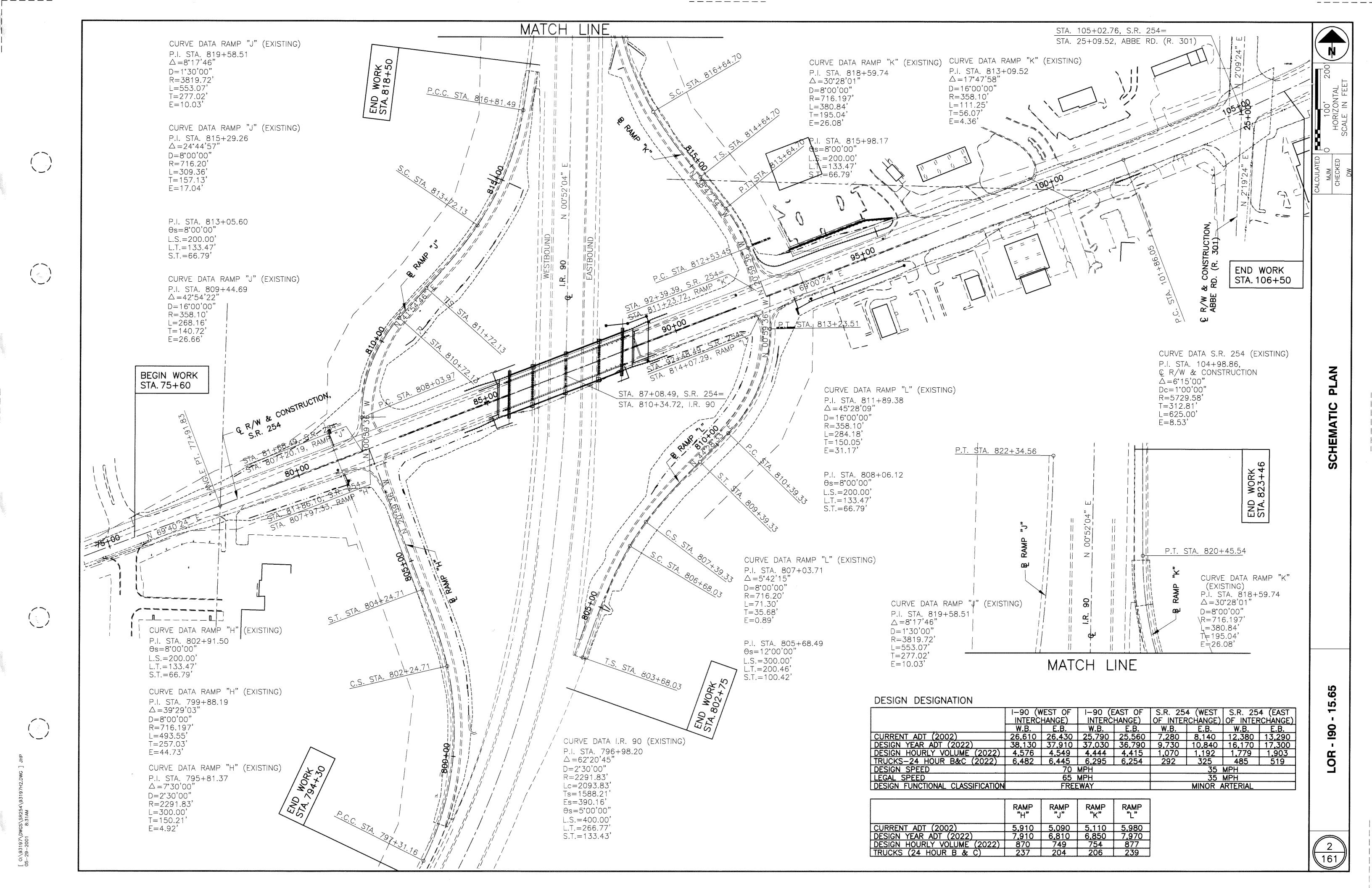
SEE PART 1 SUPPLEMENTAL STANDARD CONSTRUCTION DRAWINGS SPECIFICATIONS

Date 10-9-01 District Deputy Director

APPROVED Jordon Fronton M DATE 10-31-01 DIRECTOR, DEPARTMENT OF TRANSPORTATION

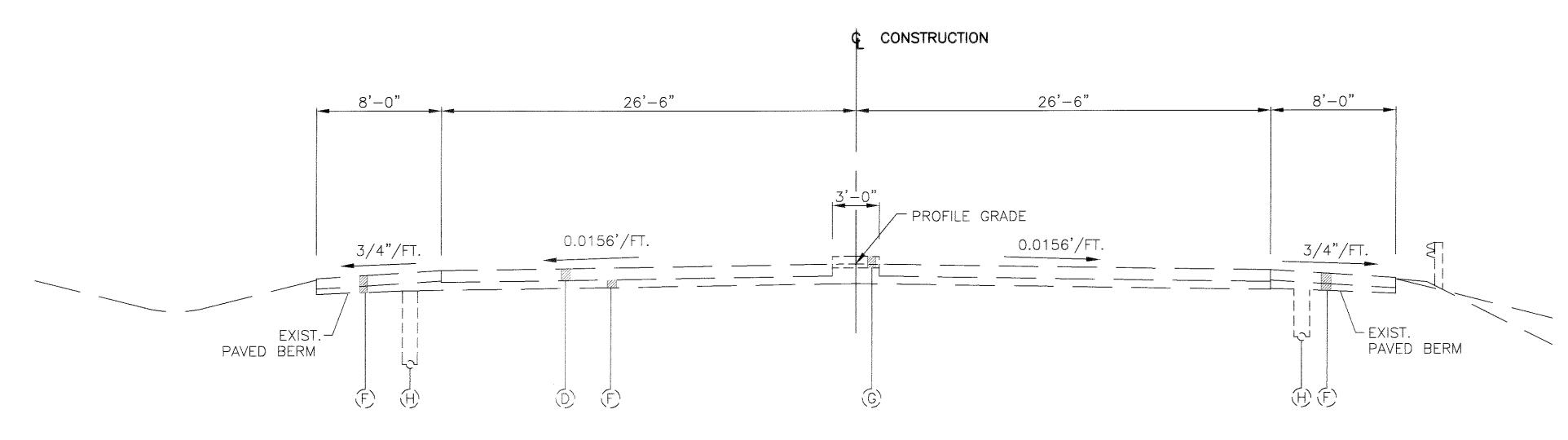
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NONE



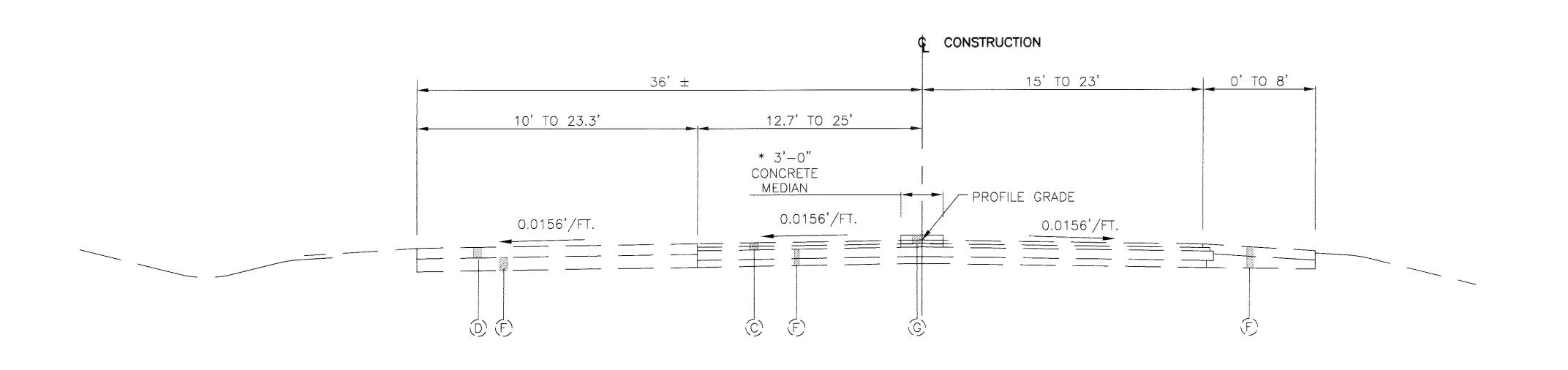


SECTIONS



EXISTING CONCRETE PAVEMENT SECTION — S.R. 254

SECTION APPLIES:
STA. 80+88.37 TO STA. 85+31.57
STA. 88+85.41 TO STA. 93+37.12

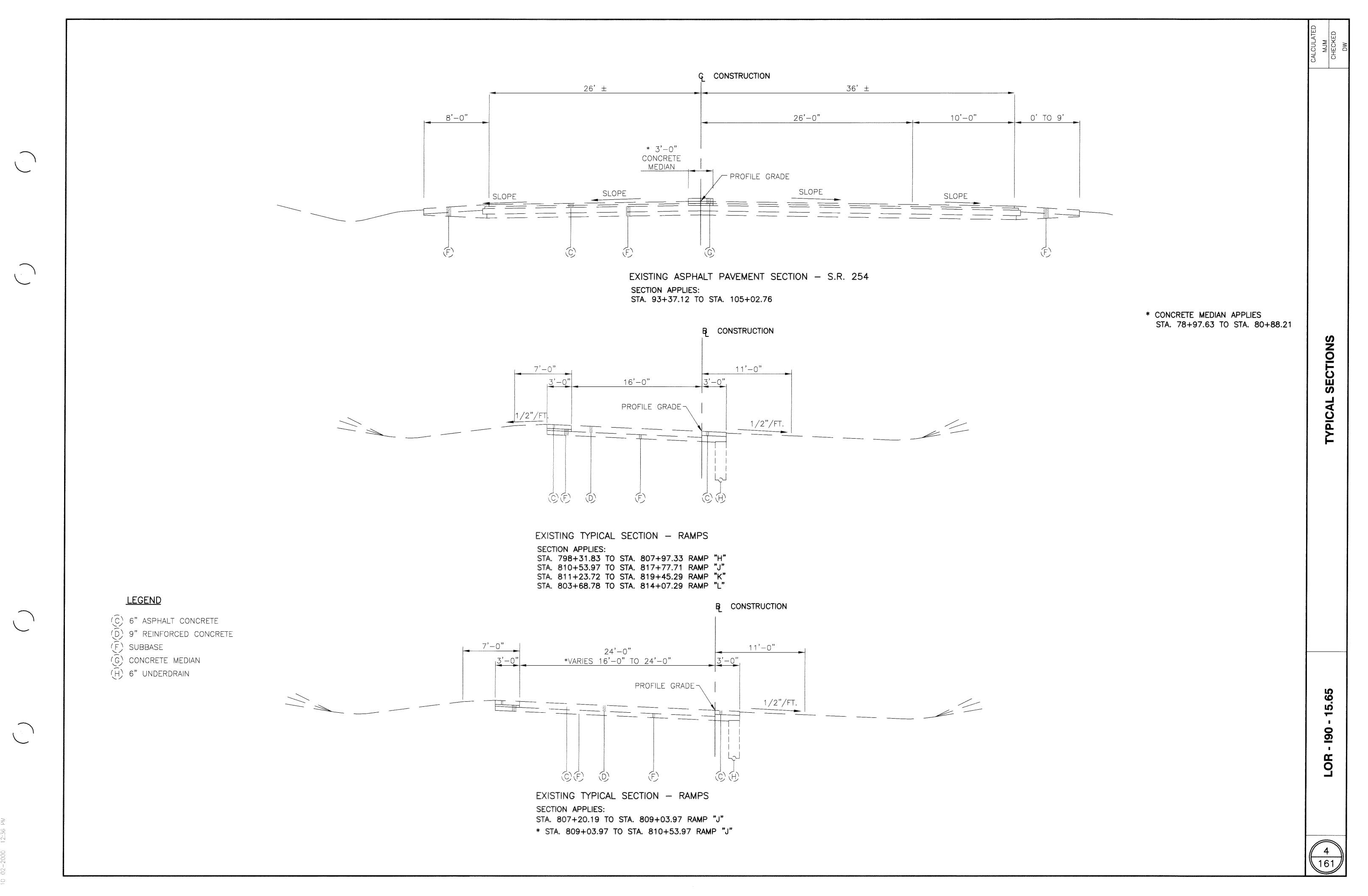


* CONCRETE MEDIAN APPLIES STA. 78+97.63 TO STA. 80+88.21

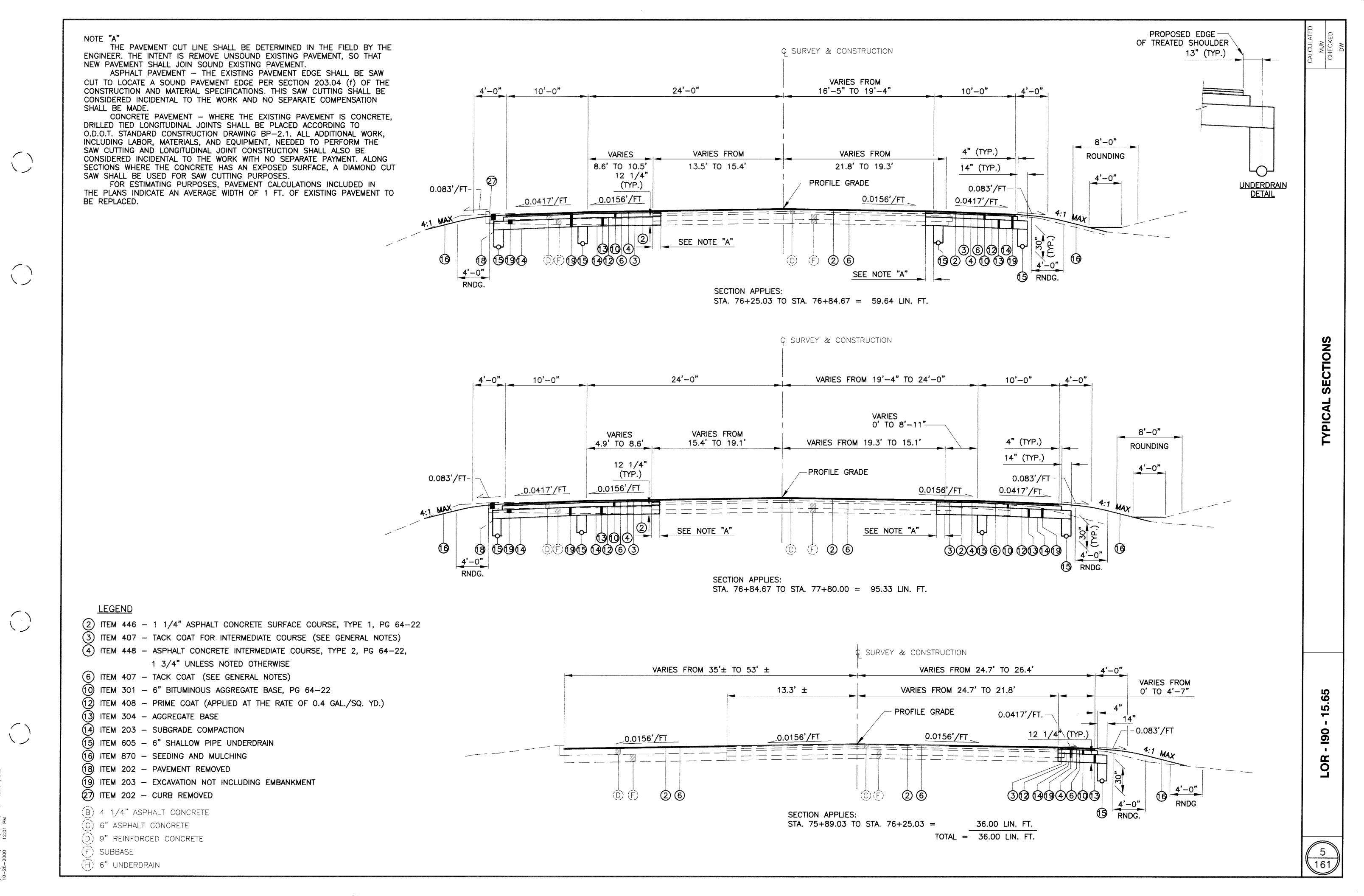
LEGEND

- (\widehat{B}) 4 1/4" ASPHALT CONCRETE
- (C) 6" ASPHALT CONCRETE
- (D) 9" REINFORCED CONCRETE
- (F) SUBBASE
- (G) CONCRETE MEDIAN
- (H) 6" UNDERDRAIN

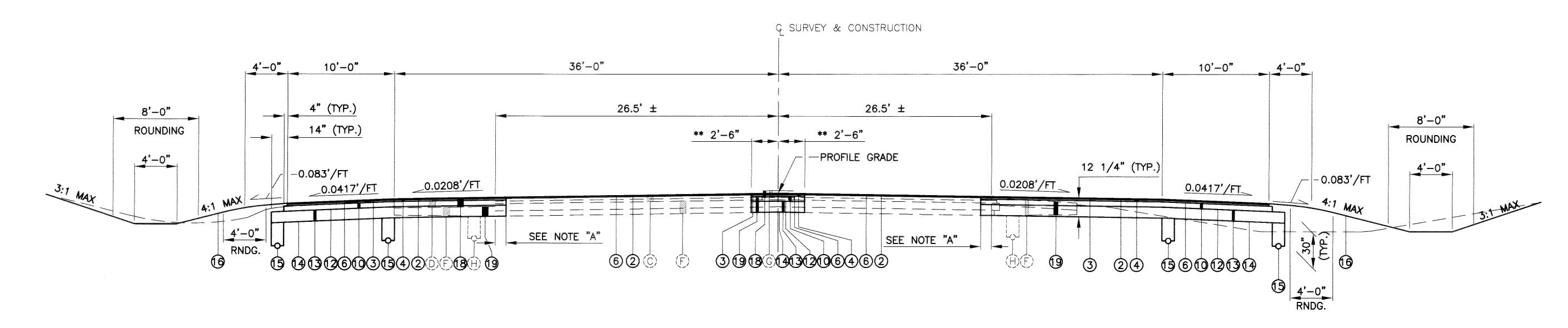
EXISTING ASPHALT PAVEMENT WITH CONCRETE WIDENING SECTION — S.R. 254
SECTION APPLIES:
STA. 75+00 TO STA. 80+88.21



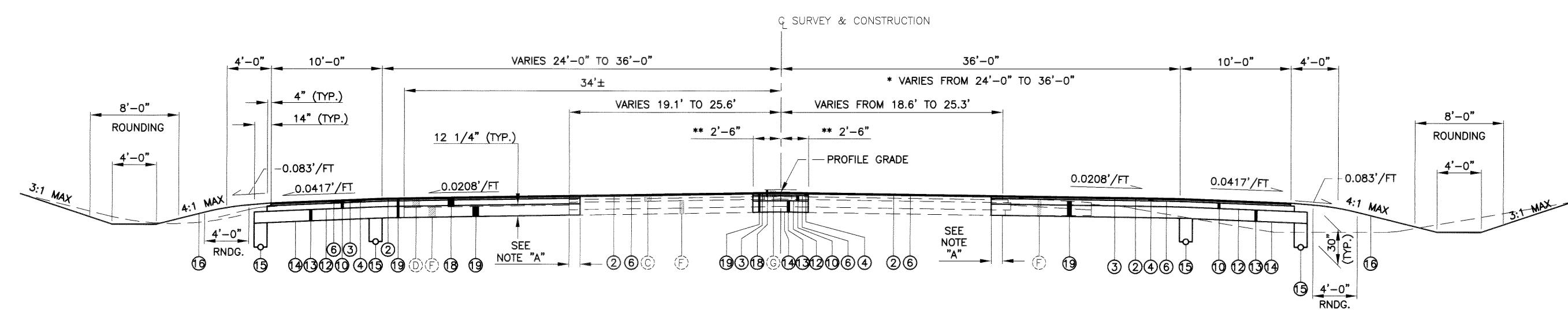
[O:\93197\DWGS\SR254\93197



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SECTION APPLIES: STA. 80+25.00 TO STA. 80+88.37 = 63.37 LIN. FT.



<u>LEGEND</u>

- (2) ITEM 446 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1. PG 64-22
- (3) ITEM 407 TACK COAT FOR INTERMEDIATE COURSE (SEE GENERAL NOTES)
- (4) ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22,
- 1 3/4" UNLESS NOTED OTHERWISE
- (6) ITEM 407 TACK COAT (SEE GENERAL NOTES)
- (10) ITEM 301 6" BITUMINOUS AGGREGATE BASE
- (12) ITEM 408 PRIME COAT (APPLIED AT THE RATE OF 0.4 GAL./SQ. YD.)
- (13) ITEM 304 AGGREGATE BASE
- (14) ITEM 203 SUBGRADE COMPACTION
- (15) ITEM 605 6" SHALLOW PIPE UNDERDRAIN
- (16) ITEM 870 SEEDING AND MULCHING
- (18) ITEM 202 PAVEMENT REMOVED
- (19) ITEM 203 EXCAVATION NOT INCLUDING EMBANKMENT
- (C) 6" ASPHALT CONCRETE
- (D) 9" REINFORCED CONCRETE
- SUBBASE
- (G) CONCRETE MEDIAN
- (H) 6" UNDERDRAIN

SECTION APPLIES: * STA. 77+80.00 TO STA. 78+30.00 = 50.00 LIN. FT.

STA. 78+30.00 TO STA. 80+25.00 = 195.00 LIN. FT. TOTAL = 245.00 LIN. FT.

NOTE "A" THE PAVEMENT CUT LINE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE INTENT IS REMOVE UNSOUND EXISTING PAVEMENT, SO THAT

1303.14 LIN. FT.

STA. 78+97.63 TO STA. 81+79.41 = 281.78 LIN. FT.

STA. 82+65.50 TO STA. 85+56.36 = 290.86 LIN. FT.

STA. 88+59.88 TO STA. 91+60.05 = 300.17 LIN. FT.

STA. 92+37.88 TO STA. 96+68.21 = 430.33 LIN. FT.

** REMOVE CONCRETE MEDIAN FROM

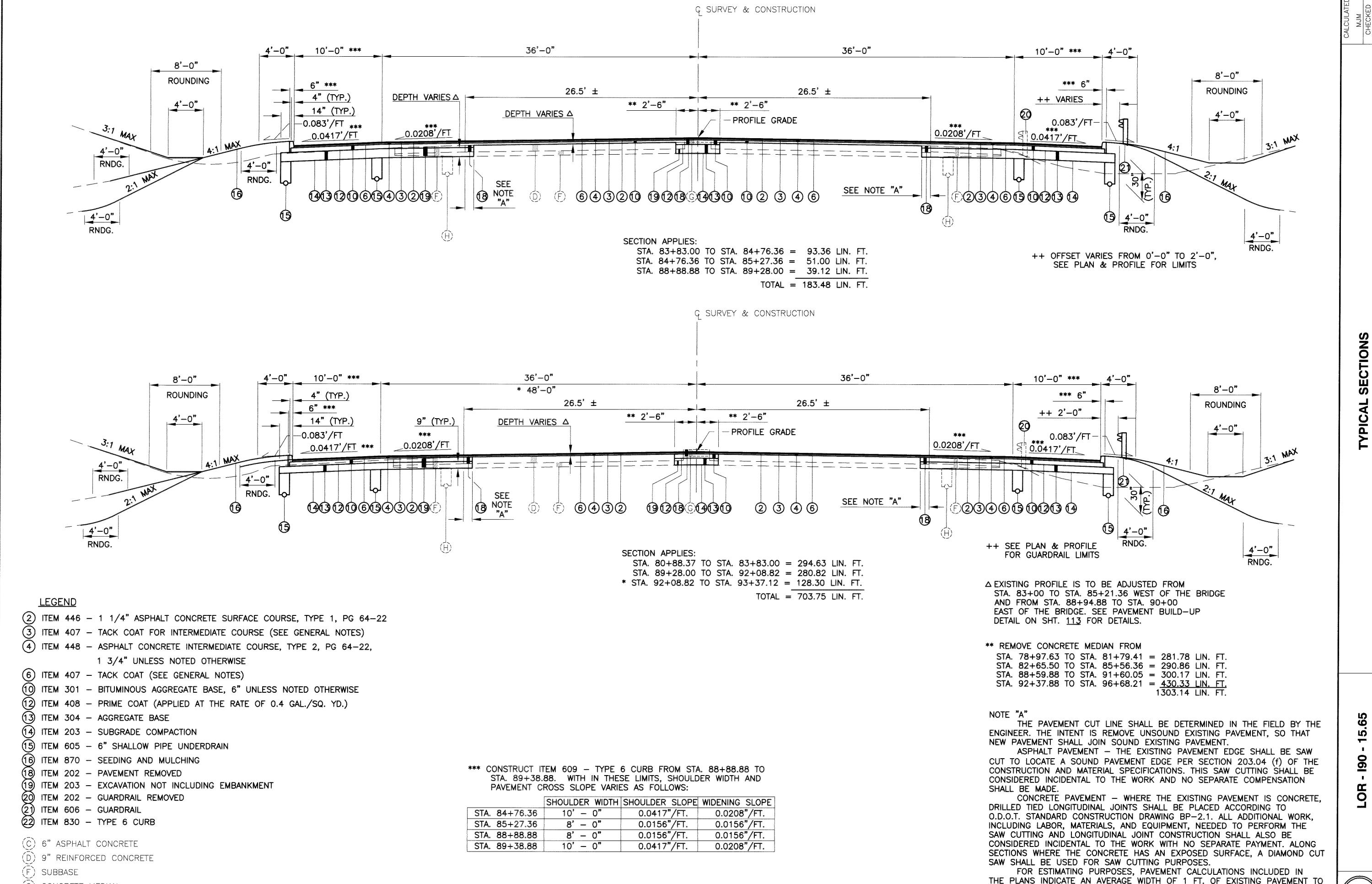
NEW PAVEMENT SHALL JOIN SOUND EXISTING PAVEMENT. ASPHALT PAVEMENT - THE EXISTING PAVEMENT EDGE SHALL BE SAW CUT TO LOCATE A SOUND PAVEMENT EDGE PER SECTION 203.04 (f) OF THE

CONSTRUCTION AND MATERIAL SPECIFICATIONS. THIS SAW CUTTING SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND NO SEPARATE COMPENSATION SHALL BE MADE. CONCRETE PAVEMENT - WHERE THE EXISTING PAVEMENT IS CONCRETE,

DRILLED TIED LONGITUDINAL JOINTS SHALL BE PLACED ACCORDING TO O.D.O.T. STANDARD CONSTRUCTION DRAWING BP-2.1. ALL ADDITIONAL WORK, INCLUDING LABOR, MATERIALS, AND EQUIPMENT, NEEDED TO PERFORM THE SAW CUTTING AND LONGITUDINAL JOINT CONSTRUCTION SHALL ALSO BE CONSIDERED INCIDENTAL TO THE WORK WITH NO SEPARATE PAYMENT. ALONG SECTIONS WHERE THE CONCRETE HAS AN EXPOSED SURFACE, A DIAMOND CUT SAW SHALL BE USED FOR SAW CUTTING PURPOSES.

FOR ESTIMATING PURPOSES, PAVEMENT CALCULATIONS INCLUDED IN THE PLANS INDICATE AN AVERAGE WIDTH OF 1 FT. OF EXISTING PAVEMENT TO BE REPLACED.





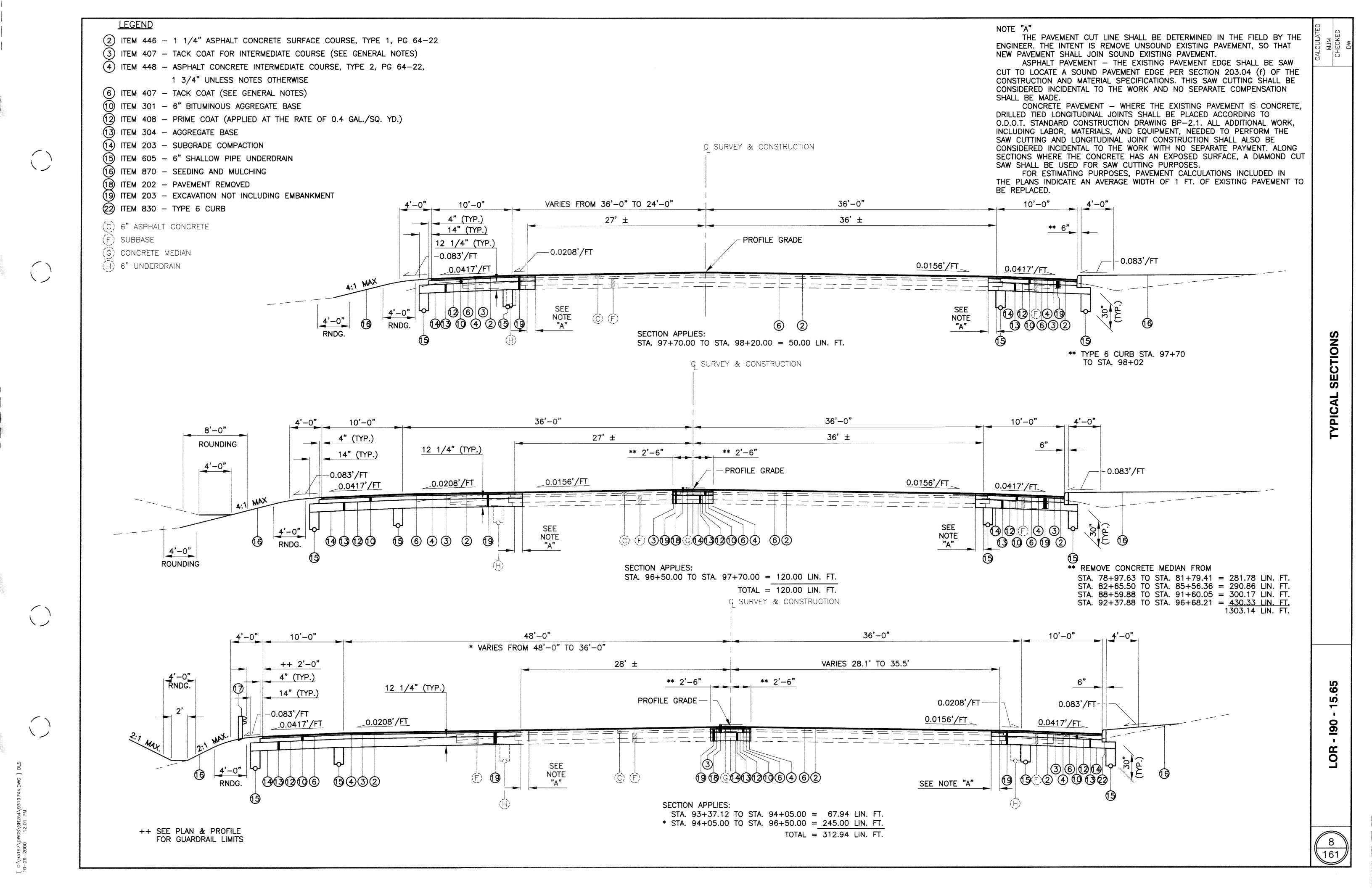
[O:\93197\DWGS\SR254\93197X4.DWG] DLS

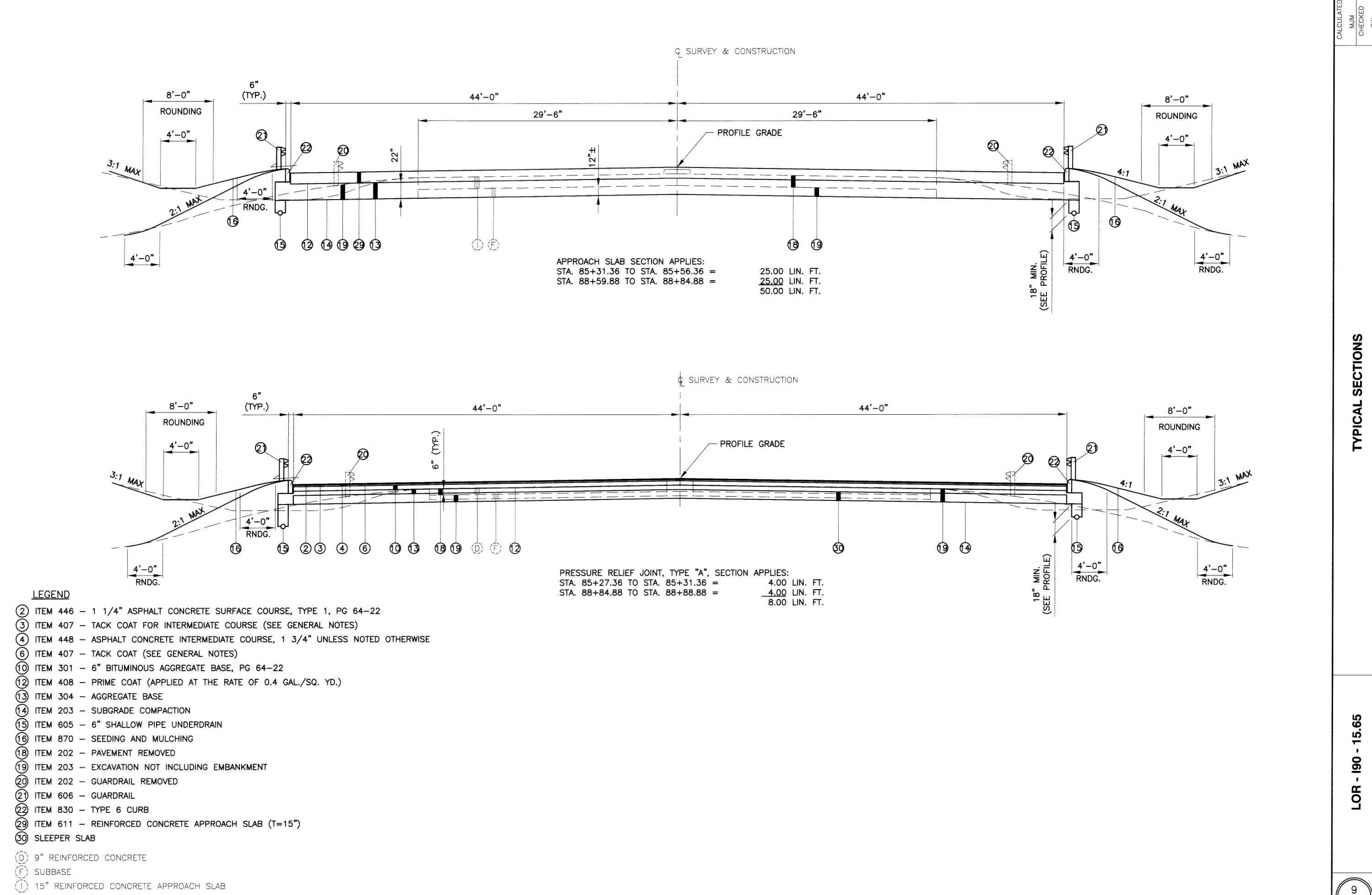
CONCRETE MEDIAN

6" UNDERDRAIN

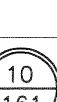
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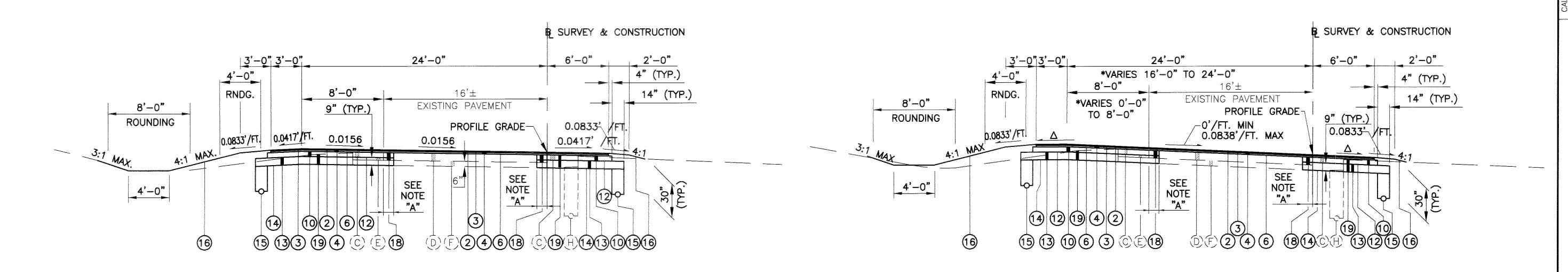
BE REPLACED.





(161)





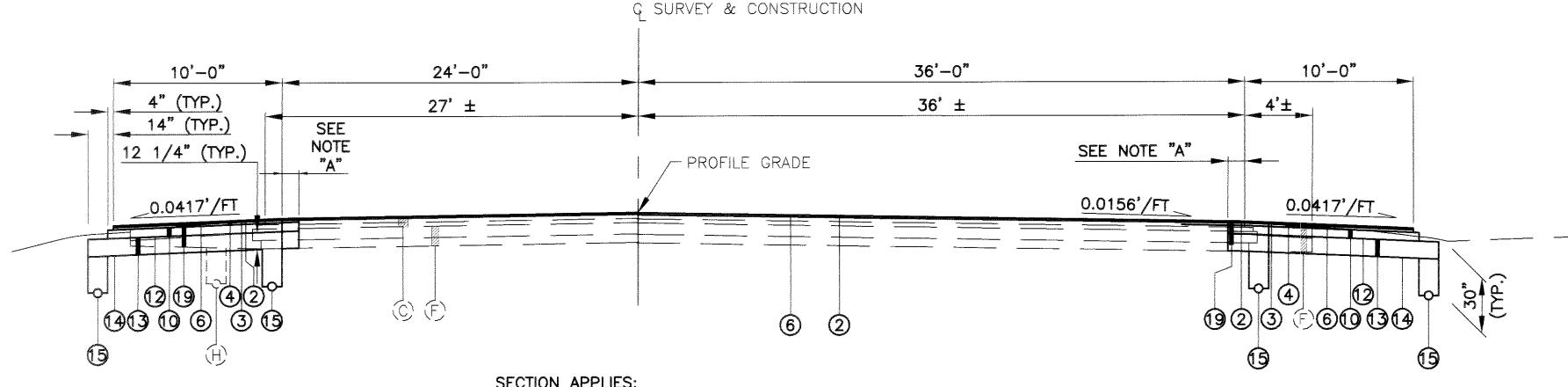
NORMAL SECTION

SECTION APPLIES: STA. 804+24.71 TO STA. 807+51.33 RAMP "H" = 226.62 LIN. FT. SUPER ELEVATED SECTION - DIRECTION OF TRAVEL

SECTION APPLIES: *STA. 798+32.00 TO STA. 802+32.00 RAMP "H" = 400.00 LIN. FT. STA. 802+32.00 TO STA. 804+24.71 RAMP "H" = 192.71 LIN. FT.

STA. 811+13.00 TO STA. 814+50.00 RAMP "J" = 337.00 LIN. FT. *STA. 814+50.00 TO STA. 815+00.00 RAMP "J" = 50.00 LIN. FT.

STA. 813+98.00 TO STA. 814+25.00 RAMP "K" = 27.00 LIN. FT. *STA. 814+25.00 TO STA. 818+25.00 RAMP "K" = 400.00 LIN. FT. TOTAL LENGTH = 1406.71 LIN. FT.



<u>LEGEND</u>

(2) ITEM 446 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22

(3) ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (SEE GENERAL NOTES)

(4) ITEM 448 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22,

1 3/4" UNLESS NOTED OTHERWISE

(6) ITEM 407 - TACK COAT (SEE GENERAL NOTES)

(10) ITEM 301 - 6" BITUMINOUS AGGREGATE BASE (12) ITEM 408 - PRIME COAT (APPLIED AT THE RATE OF 0.4 GAL/SQ. YD.)

(13) ITEM 304 - AGGREGATE BASE

(14) ITEM 203 - SUBGRADE COMPACTION

(15) ITEM 605 - 6" SHALLOW PIPE UNDERDRAIN

(16) ITEM 870 - SEEDING AND MULCHING

(18) ITEM 202 - PAVEMENT REMOVED

(19) ITEM 203 - EXCAVATION NOT INCLUDING EMBANKMENT

(A) 3" ASPHALT CONCRETE

(B) 4 1/4" ASPHALT CONCRETE

(C) 6" ASPHALT CONCRETE

(D) 9" REINFORCED CONCRETE

10" REINFORCED CONCRETE

(F) SUBBASE

(G) CONCRETE MEDIAN

(H) 6" UNDERDRAIN

SECTION APPLIES: STA. 98+20.00 TO STA. 104+56.90 = 636.90 LiN. FT.

A SEE PAVEMENT ELEVATION TABLE ON

SHEET 40-43 FOR VARING SHOULDER SLOPES.

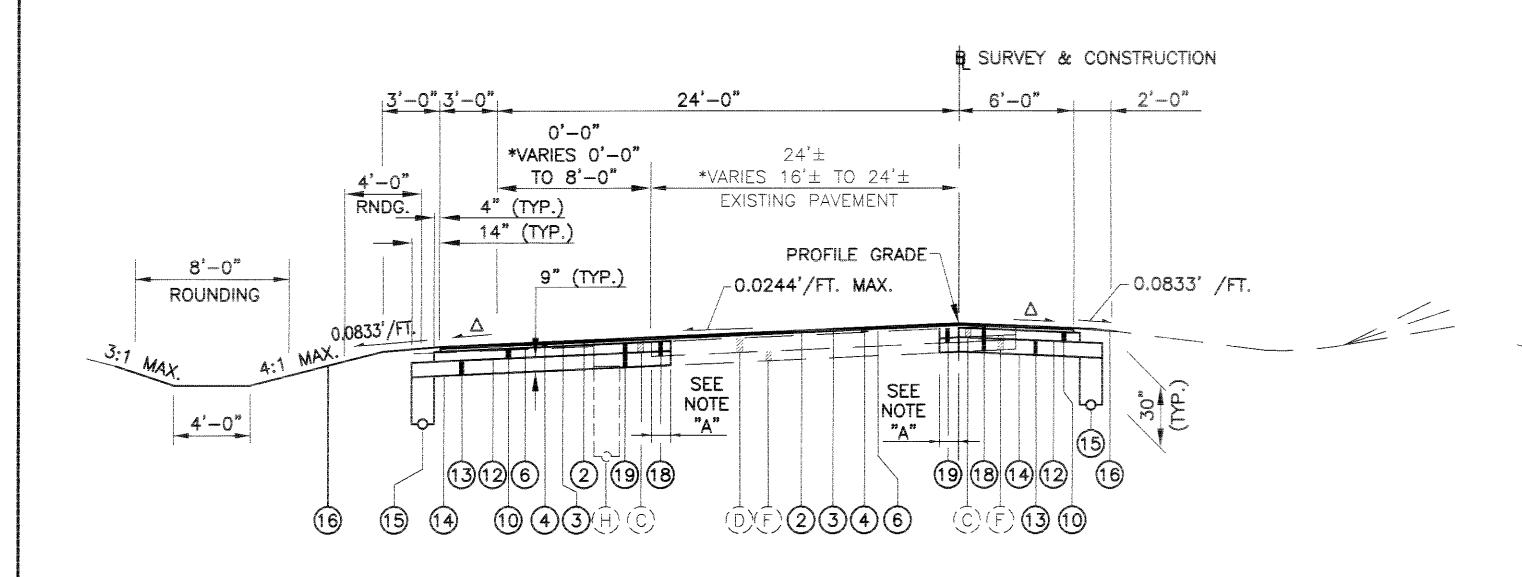
NOTE "A" THE PAVEMENT CUT LINE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE INTENT IS REMOVE UNSOUND EXISTING PAVEMENT, SO THAT NEW PAVEMENT SHALL JOIN SOUND EXISTING PAVEMENT.

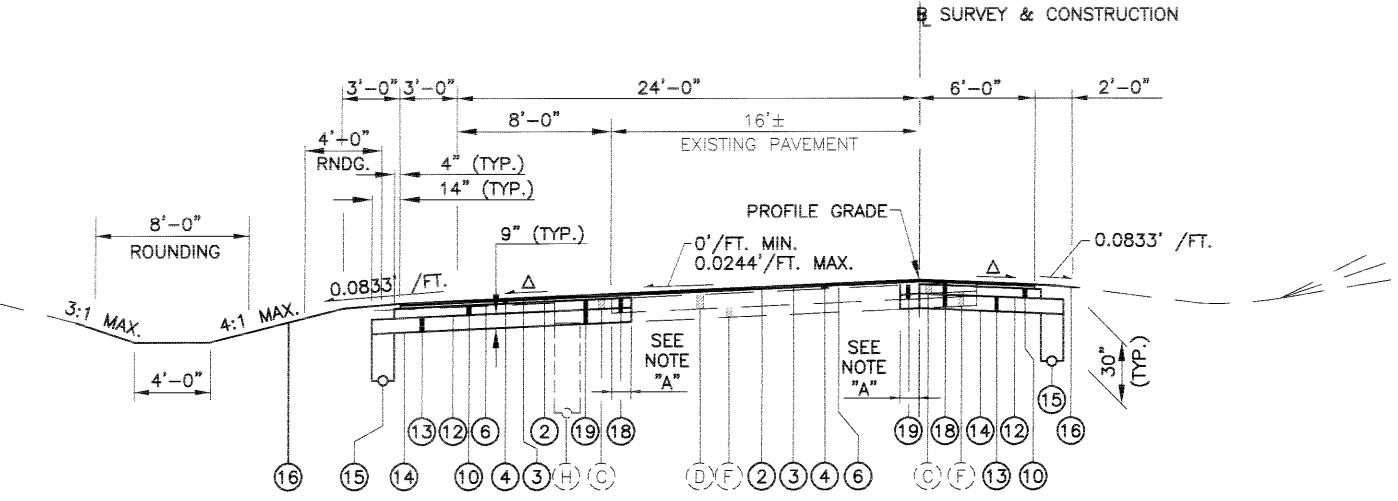
ASPHALT PAVEMENT - THE EXISTING PAVEMENT EDGE SHALL BE SAW CUT TO LOCATE A SOUND PAVEMENT EDGE PER SECTION 203.04 (f) OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. THIS SAW CUTTING SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND NO SEPARATE COMPENSATION SHALL BE MADE.

CONCRETE PAVEMENT - WHERE THE EXISTING PAVEMENT IS CONCRETE, DRILLED TIED LONGITUDINAL JOINTS SHALL BE PLACED ACCORDING TO O.D.O.T. STANDARD CONSTRUCTION DRAWING BP-2.1. ALL ADDITIONAL WORK, INCLUDING LABOR, MATERIALS, AND EQUIPMENT, NEEDED TO PERFORM THE SAW CUTTING AND LONGITUDINAL JOINT CONSTRUCTION SHALL ALSO BE CONSIDERED INCIDENTAL TO THE WORK WITH NO SEPARATE PAYMENT. ALONG SECTIONS WHERE THE CONCRETE HAS AN EXPOSED SURFACE, A DIAMOND CUT SAW SHALL BE USED FOR SAW CUTTING PURPOSES.

FOR ESTIMATING PURPOSES, PAVEMENT CALCULATIONS INCLUDED IN THE PLANS INDICATE AN AVERAGE WIDTH OF 1 FT. OF EXISTING PAVEMENT TO

BE REPLACED.





REVERSE SUPER ELEVATED SECTION - DIRECTION OF TRAVEL

SECTION APPLIES:

STA. 807+69.24 TO STA. 809+03.97 RAMP "J" = 134.83 LIN. FT. * STA. 809+03.97 TO STA. 810+53.97 RAMP "J" = 150.00 LIN. FT. TOTAL LENGTH = 284.83 LIN. FT. REVERSE SUPER ELEVATED SECTION - DIRECTION OF TRAVEL

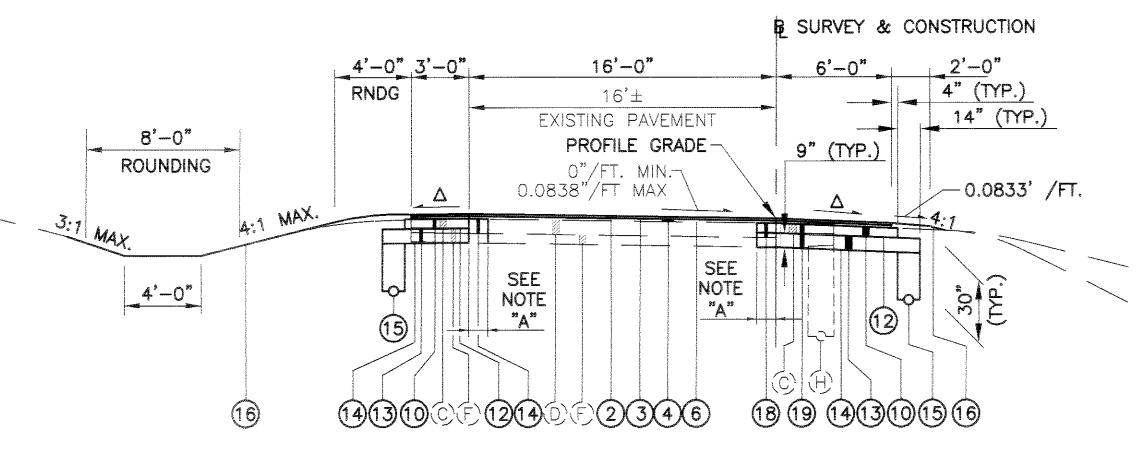
SECTION APPLIES:

STA. 810+53.97 TO STA. 811+13.00 RAMP "J" = 59.03 LIN. FT. STA. 811+81.70 TO STA. 813+98.00 RAMP "K" = 216.30 LIN. FT.

TOTAL LENGTH = 275.33 LIN. FT.

LEGEND

- (2) ITEM 446 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
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- (C) 6" ASPHALT CONCRETE
- (D) 9" REINFORCED CONCRETE
- (E) 10" REINFORCED CONCRETE
- (F) SUBBASE
- (G) CONCRETE MEDIAN
- (H) 6" UNDERDRAIN



RAMP SECTION - DIRECTION OF TRAVEL

SECTION APPLIES:

STA. 803+68.78 TO STA. 808+00.00 RAMP "L" = 431.22 LIN. FT.

STA. 818+25.00 TO STA. 819+57.31 RAMP "K" = 132.31 LIN. FT.

STA. 815+00.00 TO STA. 817+77.71 RAMP "J" = 252.71 LIN. FT.

TOTAL = 816.24 LIN. FT.

Δ SEE PAVEMENT ELEVATION TABLE ON SHEET 40-43 FOR VARING SHOULDER SLOPES.

NOTE "A"

THE PAVEMENT CUT LINE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE INTENT IS REMOVE UNSOUND EXISTING PAVEMENT, SO THAT NEW PAVEMENT SHALL JOIN SOUND EXISTING PAVEMENT.

ASPHALT PAVEMENT - THE EXISTING PAVEMENT EDGE SHALL BE SAW

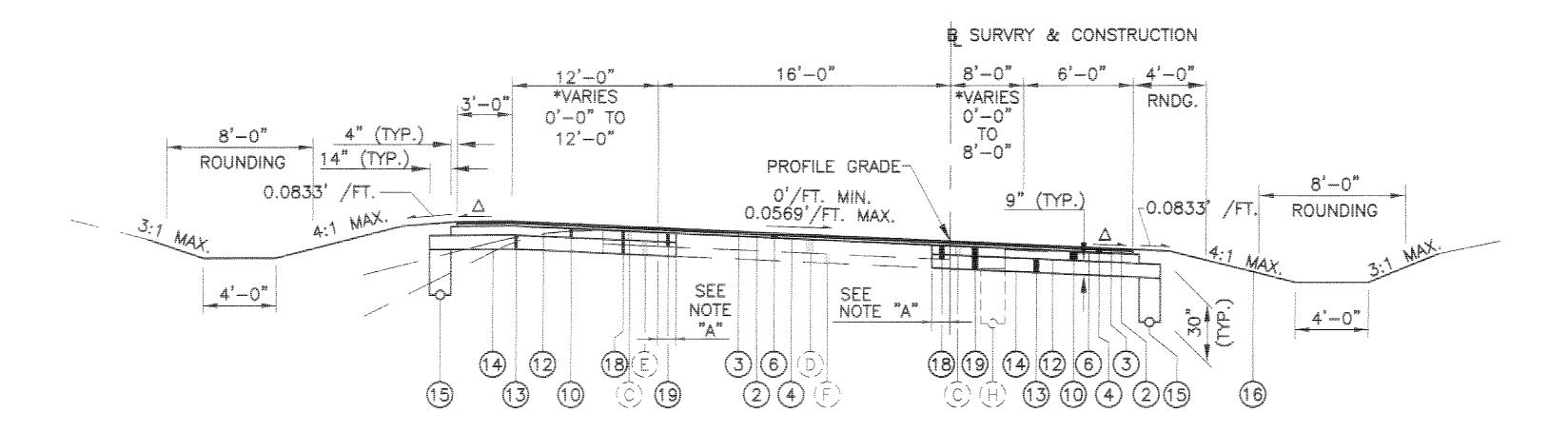
CUT TO LOCATE A SOUND PAVEMENT EDGE PER SECTION 203.04 (f) OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. THIS SAW CUTTING SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND NO SEPARATE COMPENSATION SHALL BE MADE.

CONCRETE PAVEMENT - WHERE THE EXISTING PAVEMENT IS CONCRETE, DRILLED TIED LONGITUDINAL JOINTS SHALL BE PLACED ACCORDING TO O.D.O.T. STANDARD CONSTRUCTION DRAWING BP-2.1. ALL ADDITIONAL WORK, INCLUDING LABOR, MATERIALS, AND EQUIPMENT, NEEDED TO PERFORM THE SAW CUTTING AND LONGITUDINAL JOINT CONSTRUCTION SHALL ALSO BE CONSIDERED INCIDENTAL TO THE WORK WITH NO SEPARATE PAYMENT. ALONG SECTIONS WHERE THE CONCRETE HAS AN EXPOSED SURFACE, A DIAMOND CUT SAW SHALL BE USED FOR SAW CUTTING PURPOSES.

FOR ESTIMATING PURPOSES, PAVEMENT CALCULATIONS INCLUDED IN THE PLANS INDICATE AN AVERAGE WIDTH OF 1 FT. OF EXISTING PAVEMENT TO

BE REPLACED.

(161)



Δ SEE PAVEMENT ELEVATION TABLE ON SHEET 40-43 FOR VARING SHOULDER SLOPES.

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FOR ESTIMATING PURPOSES, PAVEMENT CALCULATIONS INCLUDED IN THE PLANS INDICATE AN AVERAGE WIDTH OF 1 FT. OF EXISTING PAVEMENT TO BE REPLACED.

LEGEND

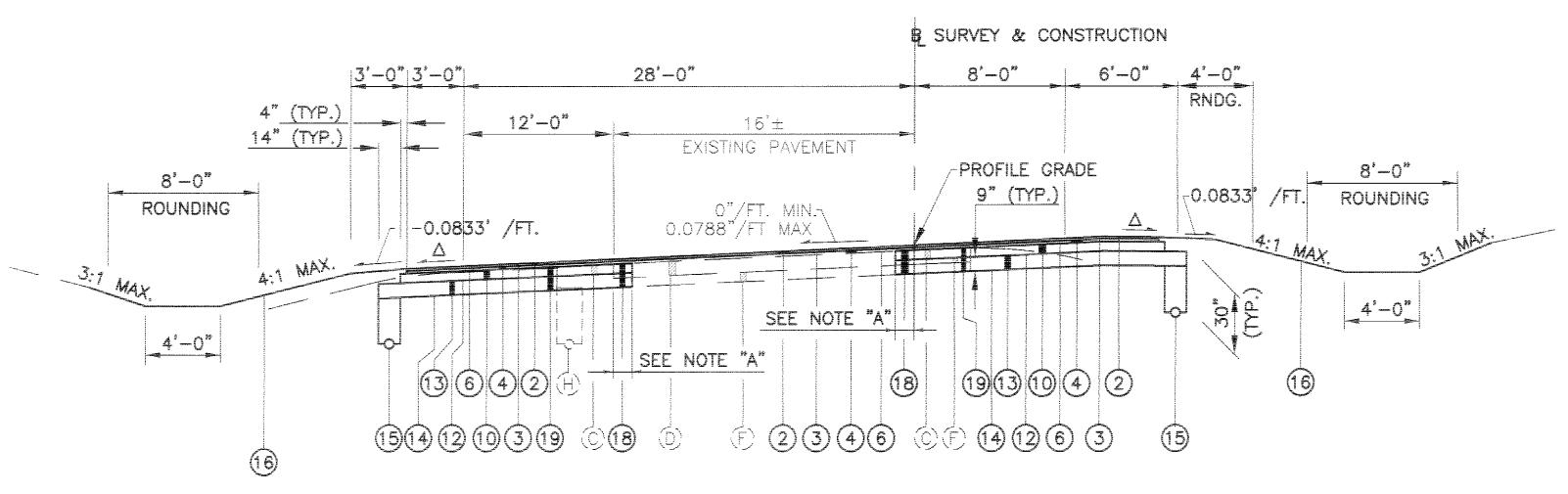
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- (F) SUBBASE
- (G) CONCRETE MEDIAN
- (H) 6" UNDERDRAIN

SUPER ELEVATED SECTION - DIRECTION OF TRAVEL

SECTION APPLIES:

*STA. 808+00.00 TO STA. 808+50.00 RAMP "L" = 50.00 LIN. FT. STA. 808+50.00 TO STA. 809+89.25 RAMP "L" = 139.25 LIN. FT.

TOTAL LENGTH = 189.25 LIN. FT.



REVERSE SUPER ELEVATED SECTION - DIRECTION OF TRAVEL

SECTION APPLIES:

STA. 809+89.25 TO STA. 813+58.34 RAMP "L" = 369.09 LIN. FT.

TOTAL LENGTH = 369.09 LIN. FT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

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

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 THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT

EROSION CONTROL

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

870, SEEDING AND MULCHING (SHEET 28)	<u>18,362</u> SQ. YD.
870, SOIL ANALYSIS TEST	2 EACH
870, TOPSOIL	2,038 CU. YD.
870, COMMERCIAL FERTILIZER	<u>3</u> TON
870, AGRICULTURAL LIME	8 TON
870, WATER	<u>50</u> M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

SEEDING AND MULCHING OF LAWNS

IN ADDITION TO "AREAS IN FRONT OF RESIDENCES" REFERRED TO IN 870.13, THE SPECIAL PREPARATION SHALL BE EXTENDED TO ENCOMPASS ALL LAWNS AND/OR LAWN-LIKE AREAS AS DETERMINED BY THE ENGINEER.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE PLACED BY THE CONTRACTOR WITH THE ENGINEER'S CONCURRENCE FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

877, TEMPORARY SEEDING AND MULCHING	<u>3,673</u> SQ. YD.
877, TEMPORARY SLOPE DRAINS	<u>11</u> LIN. FT.
877, TEMPORARY SEDIMENT BASINS AND SEDIMENT DAMS	<u>32</u> CU. YD.
877, TEMPORARY PERIMETER FILTER FABRIC FENCE	1.905 LIN. FT.
877, TEMPORARY DITCH CHECK FILTER FABRIC FENCE	<u>113</u> LIN. FT.
877, TEMPORARY INLET PROTECTION FILTER FABRIC FENCE	<u>135</u> LIN. FT.
877, TEMPORARY DIKES	22 CU. YD.
877, TEMPORARY DITCH PROTECTION	<u>642</u> SQ. YD
877, SEDIMENT REMOVAL	<u>38</u> CU. YD.
601, ROCK CHANNEL PROTECTION, TYPE C (WITH FILTER)	<u>63</u> CU. YD.
601, ROCK CHANNEL PROTECTION, TYPE C (WITHOUT FILTER)	<u>130</u> CU. YD.
870, COMMERCIAL FERTILIZER	1 TON
870, REPAIR SEEDING AND MULCHING	919 SQ. YD.
870, WATER	<u>8</u> M. GAL.

EROSION CONTROL

870, INTER-SEEDING

ITEMS 601, 660 AND 667 ARE PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE 660 OR 667. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. IN ADDITION, THESE ITEMS SHALL MEET THE REQUIREMENT OF 108.04.

919 SQ. YD.

STORMWATER POLLUTION PREVENTION PLAN

THE CONDITIONS OF THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT SHALL BE MET DURING ALL STAGES OF CONSTRUCTION. THE LOCATION AND TIMING OF ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE FIELD ADJUSTED TO PREVENT SIGNIFICANT IMPACTS ON RECEIVING WATERS. IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT THE UPSLOPE DISTURBED AREAS ARE STABILIZED.

INSTALLATION OF SEDIMENT BASINS/DAMS, PERIMETER FILTER FABRIC FENCE, AND DITCH CHECKS SHALL BE CONCURRENT WITH CLEARING AND GRUBBING AND/OR GRADING OPERATIONS

ALL REASONABLE ATTEMPTS SHOULD BE MADE TO MINIMIZE THE TOTAL AREA OF THE DISTURBED LAND.

AREAS TO REMAIN DORMANT FOR MORE THAN 45 DAYS SHOULD BE IMMEDIATELY STABILIZED WITH TEMPORARY SEEDING AND MULCHING, EROSION CONTROL MATTING OR OTHER APPROPRIATE EROSION CONTROL MEASURES.

ADDITIONAL QUANTITIES OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL ITEMS ARE GIVEN IN THE GENERAL NOTES.

GENERAL NOTES

<u>ROUNDING</u>

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN.

<u>UTILITIES</u>

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

LLTEL 63 3rd STREET LYRIA, OHIO, 44035 446) 329—4248 ARRY GOGLIN	ADELPHIA CABLE 14300 SOUTH INDUSTRIAL PARKWAY MAPLE HEIGHTS, OHIO, 44137 (216) 663-4004 KIP EIGER
ENTURY TEL 730 WEST 19th STREET ORAIN, OHIO, 44052 440) 244-8475 AY MURRAY	COLUMBIA GAS OF OHIO 3101 NORTH RIDGE ROAD LORAIN, OHIO, 44055—3767 (440) 240—6146 DAN SUREN
HIO EDISON	SHEFFIELD VILLAGE WATER

6326 LAKE AVE. 4820 DETROIT ROAD ELYRIA, OHIO 44035 ELYRIA, OHIO, 44035 (440) 326-3257 (440) 949-6209 DICK MAJUNSKI LEO SHEETS

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARF AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

PROTECTION OF RIGHT OF WAY LANDSCAPING

THE CONTRACTOR SHALL CONSTRICT ALL OF HIS/HER ACTIVITIES. EQUIPMENT STORAGE. AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL. THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT. SHOULD THE CONTRACTOR WISH TO USE ANY AREA OUTSIDE THESE LIMITS, A REQUEST IN WRITING MUST BE SUBMITTED TO THE PROJECT ENGINEER. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA THAT THE CONTRACTOR PLANS TO USE AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. THE ENGINEER SHALL APPROVE THE REQUEST IN WRITING BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA. PRIOR TO BEGINNING WORK, THE CONTRACTOR, SUPERINTENDENT OR HIS REPRESENTATIVE. THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY SHALL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT OF WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE. ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPLACED IN KIND OR AS DIRECTED BY THE PROJECT ENGINEER.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR IS ADVISED OF THE POSSIBLE PRESENCE OF AT LEAST ONE OTHER CONSTRUCTION CONTRACT WITHIN THE VICINITY OF THE WORK LIMITS OF THIS PROJECT. LOR-90-10.76 MAY BE UNDER CONSTRUCTION AT THE SAME TIME AND 105.07 COOPERATION BETWEEN CONTRACTORS IS REQUIRED.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. NAVD 1929 DATUM.

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.

CONVERSION OF STANDARD CONSTRUCTION DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.011 OF THE 1997 CONSTRUCTION AND MATERIALS SPECIFICATIONS. THE APPENDIX OF ATSM E 380 SHALL BE UTILIZED FOR ANY ADDITIONAL CONVERSION FACTORS REQUIRED. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

<u>PAVEMENT</u>

CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES AND THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS SHALL, IN ALL CASES, BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING

WHERE NEW CONCRETE IS PLACED ADJACENT TO EXISTING CONCRETE. CONTRACTION JOINTS SHALL BE PROVIDED IN THE NEW CONCRETE SO AS TO FORM CONTINUOUS JOINTS WITH ALL THOSE IN THE EXISTING

THE MAXIMUM DISTANCE BETWEEN JOINTS IN THE NEW CONCRETE SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2, IF NECESSARY, ADDITIONAL JOINTS SHALL BE PROVIDED IN THE NEW CONCRETE AT APPROXIMATELY EQUAL INTERVALS BETWEEN EXISTING JOINTS THAT EXCEED MAXIMUM SPACING.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXTREME CARE SHALL BE TAKEN TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LONGITUDINAL JOINTS SHALL BE LAPPED AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

ITEM 407 - TACK COAT AND ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF:

ITEM 407 - TACK COAT

0.75 GAL. PER SQ. YD.

ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE

0.04 GAL. PER SQ. YD.

ITEM 451 - PRESSURE RELIEF JOINT, TYPE A, AS PER PLAN

CONTRACT WORK FOR THIS ITEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF ITEM 451 -PRESSURE RELIEF JOINT. TYPE "A". HOWEVER. THE STANDARD CONSTRUCTION DRAWING SHALL BE REVISED PER THE DETAIL AS SHOWN ON SHEET 114.

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LOR

CONTRACT WORK FOR THIS ITEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF ITEM ITEM 255 — FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS FS. ALL EQUIPMENT, LABOR AND MATERIALS REQUIRED TO PERFORM THE NECESSARY SAW CUTTING ASSOCIATED WITH THE PAVEMENT REPAIR SHALL BE CONCIDERED INCIDENTAL WITH NO ADDITIONAL PAYMENT TO BE MADE.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE ENGINEER IN THE FIELD:

255, FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS FS, AS PER PLAN 270 SQ. YD.

<u>ROADWAY</u>

ITEM 203 - PROOF ROLLING

AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 203 - PROOF ROLLING 14 HOURS

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES SHALL BE MADE IN ACCORDANCE WITH ITEM 607.

EXISTING CONCRETE GORE ISLANDS AND PACER CURB

ALL EXISTING CONCRETE GORE ISLANDS AND PACER CURBING IS TO BE REMOVED AS PART OF A REHABILITATION PROJECT. HOWEVER, IN THE EVENT THIS WORK HAS NOT BEEN PERFORMED, THE CONTRACTOR SHALL REMOVE THE EXISTING EXIT RAMP GORE ISLANDS AND PACER CURB USING THE FOLLOWING QUANTITIES AND DESCRIPTIONS:

ITEM 202 — CURB REMOVED AS PER PLAN — SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS SET FORTH IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS MANUAL UNDER ITEM 202 — CURB REMOVED. ADDITIONALLY, THIS ITEM SHALL INCLUDE PATCHING ANY GAP LEFT DUE TO THE REMOVAL. IT IS ANTICIPATED THAT MANY OF THESE AREAS WILL HAVE TEMPORARY PAVEMENT PLACED FOR MAINTENANCE OF TRAFFIC PURPOSES. HOWEVER, IN THE EVENT TEMPORARY PAVEMENT WILL NOT BE PLACED IN THE AREA OF CURB REMOVAL, THE CONTRACTOR SHALL FILL THE AREA EXPOSED DUE TO THE REMOVAL WITH A FILL SUITABLE TO THE FIELD ENGINEER, INCLUDING EMBANKMENT, TOPSOIL AND SEEDING NECESSARY TO RESTORE THE AREA TO ADJACENT CONDITIONS. PAYMENT FOR ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO PERFORM THE ASSOCIATED WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 202 — CURB REMOVED, AS PER PLAN.

ITEM 202 — PAVEMENT REMOVED, AS PER PLAN SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS SET FORTH IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS MANUAL UNDER ITEM 202 — PAVEMENT REMOVED. ADDITIONALLY, THIS ITEM SHALL INCLUDE ANY MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO GRADE THE AREA OF REMOVAL AND RESTORE TO CONDITIONS OF ADJACENT LANDSCAPED/GRASS COVERED AREA. PAYMENT FOR ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO PERFORM THE ASSOCIATED WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 202 — PAVEMENT REMOVED, AS PER PLAN.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY:

ITEM 202 - CURB REMOVED, AS PER PLAN

1240 LIN. FT.

ITEM 202 - PAVEMENT REMOVED, AS PER PLAN <u>75</u> SQ. YD.

ITEM 203 - EMBANKMENT

CONSTRUCTION OF ALL PROPOSED SLOPES AT ALONG WIDENED SECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION THE CONSTRUCTION AND MATERIALS SPECIFICATIONS, SECTION 203.09.

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.

ITEM 606 - ANCHOR ASSEMBLY, TYPE E-98

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS.

1) THE ET-2000 (1997) MANUFACTURED BY SYRO, INC., 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE ET-2000 (1997) SYSTEM IS CONSIDERED TO BE 50'-0", INCLUSIVE OF TWO 25'-0" LONG RAIL ELEMENTS. 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:

DWG. #	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SSS265M	ET-2000 (1997) PLAN, ELEVATION & SECTIONS	6/20/97	3/6/98

2) THE SKT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 7631 NEW CASTLE DRIVE, FRANKFORT, IL 60423 (TELEPHONE: 815-464-5917).

THE LENGTH OF THE SKT-350 SYSTEM IS CONSIDERED TO BE 50'-0", INCLUSIVE OF FOUR 12'-6" LONG RAIL ELEMENTS. 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:

DWG. #	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SKT-4M SS444M	SEQUENTIAL KINKING TERMINAL (SKT-350) ASSEMBLY WITH 4 FOUNDATION TUBES	12/11/97	3/6/98

THE FACE OF THE TYPE E-98 IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 18" X 18"

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE E-98, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

MAN CHECKED

GENERAL NOTES

OR - 190 - 15.6

MAINTENANCE OF TRAFFIC — GENERAL NOTES

ITEM 614 — MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE
MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT. THE

MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, AND TEMPORARY SURFACES USING 304, 614 AND 615.

SPECIFIC DIRECTIONS REGARDING LANES CLOSURES FOR EACH SEGMENT OF CONSTRUCTION ARE NOTED IN THE SEQUENCE OF CONSTRUCTION.

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

S.R. 254

ITEM 410 - TRAFFIC COMPACTED SURFACE, TYPE A OR B

100 CU. YD.

ITEM 616 - CALCIUM CHLORIDE ITEM 616 - WATER

2 TONS 50 M. GAL.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 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.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ONE ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF THE PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATIONS OPERATIONS. THE LENGTH OF WIDENING TRENCH TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 5 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

GUARDRAIL REPLACEMENT

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE THE EXISTING GUARDRAIL, PREPARE THE SITE, AND INSTALL NEW GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE, READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED UNTIL SUCH TIME AS THE ENGINEER IS ASSURED OF COMPLIANCE.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616 - WATER

100 M. GAL. 10 TONS

ITEM 616 - CALCIUM CHLORIDE

ITEM 614 - BARRIER REFLECTOR AND/OR OBJECT MARKERS

BARRIER REFLECTORS AND/OR OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO THE APPROPRIATE PROPOSAL NOTE AND ITEM 626 EXCEPT THAT THE SPACING SHALL BE 25 FEET. AN ESTIMATED QUANTITY OF 61 EACH OF ITEM 614 BARRIER REFLECTOR, TYPE B, AND 61 EACH OF ITEM 614 OBJECT MARKERS HAVE BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

ITEM 622 - PORTABLE CONCRETE BARRIER

IT IS ANTICIPATED THAT THE SAME BARRIER WILL BE USED IN VARIOUS PHASES OF CONSTRUCTION. MOVEMENT OF THE CONCRETE BARRIER BETWEEN PHASES SHALL BE ACCOMPLISHED IN ONE WORKING DAY. FLAGGERS SHALL BE UTILIZED FOR PROTECTION OF VEHICULAR TRAFFIC UNTIL MOVEMENT OF THE BARRIER IS COMPLETE.

LAW ENFORCEMENT OFFICER WITH PATROL CAR

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

- FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.
- DURING A TRAFFIC SIGNAL INSTALLATION.
- DURING THE CLOSURE OF I-90 DURING THE NOTED PORTIONS OF THE S.R. 254 OVERPASS RECONSTRUCTION

LAW ENFORCEMENT OFFICERS (L.E.O.'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 WITH:

STATE OF OHIO HIGHWAY PATROL 3800 CLETUS DR. ELYRIA, OH 44035 (440)365-8783

LAW ENFORCEMENT OFFICERS WITH PATROL REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A 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 220 HOURS

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

IF THE CONTRACTORS WISH TO UTILIZE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MUST DO SO AT THEIR OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 MAINTAINING TRAFFIC.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHT TIME 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 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 MAINTAINING TRAFFIC.

DRIVE ACCESS DURING CONSTRUCTION

ACCESS TO ALL DRIVES ALONG SR 254 SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION PERIOD. ACCESS SHALL BE MAINTAINED THROUGH PHASED CONSTRUCTION WHERE POSSIBLE. WHERE PHASED CONSTRUCTION CANNOT ACCOMMODATE DRIVE ACCESS, ACCESS SHALL BE MAINTAINED USING THE CONTINGENCY QUANTITY FOR ITEM 410 — TRAFFIC COMPACTED SURFACE NOTED UNDER ITEM 614 — MAINTAINING TRAFFIC.

ITEM SPECIAL, REPLACEMENT SIGN

FLAT SHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECAME DAMAGED BY TRAFFIC FOR REASONS BEYOND CONTROL TO 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 SQUARE METER FOR ITEM SPECIAL, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ECT.

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

ITEM SPECIAL - REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECAME 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 SPECIAL — REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 150 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

TEMPORARY CLOSURES ON I-90

TEMPORARY CLOSURES ON I-90 AT THE S.R. 254 INTERCHANGE ARE REQUIRED TO AVOID PERFORMING WORK OVER TRAVELED LANES DURING THE REMOVAL OF THE STEEL BEAMS AND THE ERECTION OF THE PROPOSED STRUCTURAL STEEL. SUCH CLOSURES SHALL OCCUR ONLY BETWEEN THE HOURS OF 12:01 AM TO 5:00 AM MONDAY THROUGH THURSDAY. TRAFFIC NEED ONLY BE STOPPED DURING THE ACTUAL ATTACHMENT, LIFTING AND HANDLING OF THE BEAMS OVER THE TRAVELED LANES AND AT NO TIME SHALL ANY ONE CLOSURE EXCEED FIFTEEN (15) MINUTES PER EACH HOUR. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE PUBLIC.

ADVANCE NOTICE: ONE PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) IN EACH DIRECTION SHALL BE PROVIDED FOR SEVEN (7) DAYS IN ADVANCE OF THE CLOSURE DATE TO PROVIDE ADVANCE NOTICE OF THE TEMPORARY CLOSURE. THESE SIGNS ARE TO BE LOCATED AT AN APPROVED LOCATION NEAR THE CLOSURE SITE.

CLOSURE NOTICE: ONE PCMS IN EACH DIRECTION SHALL BE PROVIDED THE DAY OF CLOSURE TO PROVIDE SPECIFIC CLOSURE INFORMATION. THE ADVANCE NOTICE PCMS MAY BE RELOCATED TO PERFORM THIS FUNCTION. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN APPROVED PCMS APPROXIMATELY ONE (1) MILE IN EACH DIRECTION. IN ADVANCE OF THE CLOSURE TO ADVISE TRAFFIC OF A POTENTIAL STOP CONDITION AND CONSTRUCTION DELAY. THE MESSAGE CONTENT SHALL BE APPROVED BY THE ENGINEER

THE CMS SHALL BE CONSIDERED INCIDENTAL IN THE COST OF ITEM 614 MAINTAINING TRAFFIC.

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

THE COST OF THE ABOVE WORK INCLUDING PROVIDING, ERECTING, MAINTAINING AND REMOVING THE PCMS SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

AN ADDITIONAL ESTIMATED QUANTITY OF <u>48</u> HOURS HAS BEEN INCLUDED IN THE ESTIMATE ON THIS SHEET FOR ITEM 614 LAW ENFORCEMENT OFFICER WITH PATROL CAR TO BE USED AS DIRECTED BY THE ENGINEER FOR THESE CLOSURES.

ITEM 614 - TEMPORARY IMPACT ATTENUATOR, BYDIRECTIONAL:

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

1) THE QUADGUARD CZ, (24" WIDE 6-BAY) TEMPORARY IMPACT ATTENUATOR MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC., ONE EAST WACKER DRIVE, CHICAGO, IL 60601 (TELEPHONE: 312-467-6750)

THE LENGTH OF THE 6 BAY QUADGUARD CZ IS 20'-9".
INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS,
IN ACCORDANCE WITH THE MANUFACTURE'S SPECIFICATIONS AS DETAILED
ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. #	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
QSCZCVR -T4	QUADGUARD CZ SYSTEM FOR CONSTRUCTION ZONES	5/13/99 REV. J	8/27/99
35-40 -10	QUADGUARD SYSTEM CONCRETE PAD, CZ, QG	11/19/97 REV. D	8/27/99
35-40 -16	QUADGUARD SYSTEM BACKUP ASSEMBLY, CZ, QG	7/30/99 REV. F	8/27/99
354051Z	QUADGUARD SYSTEM NOSE ASSEMBLY, CZ, QG, 24, 30, 36	5/17/99	8/27/99
35-40 -18	TRANSITION ASSEMBLY, 4 OFFSET, QG	6/25/99 REV. F	8/27/99
35400260	QUADGUARD SYSTEM PCMB ANCHOR ASSEMBLY	11/19/97 REV. C	8/27/99

2. THE TRACC (TRINITY ATTENUATOR CRASH CUSHION) MANUFACTURED BY SYRO STEEL INC., 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:

DWG. #	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SS450 SS450M	CRASH-CUSHION ATTENUATING TERMINAL PLAN, ELEVATION & SECTIONS	3/12/99 REV.1 3/12/99 REV.1	8/27/99 8/27/99
SS455	TRACC TRANSISTION TO W-BEAM MEDIAN BARRIER PLAN, ELEVATION & SECTIONS	2/18/99	8/27/99
SS461	TRACC TRANSISTION TO CONCRETE SAFETY SHAPE BARRIER PLAN, ELEVATION & SECTIONS	6/30/99 REV.1	8/27/99
SS462	TRACC TRANSISTION TO CONCRETE BARRIER SINGLE SLOPE PLAN, ELEVATION & SECTIONS	6/30/99	8/27/99

THE CONTRACTOR SHALL PROVIDE A REPLACEMENT UNIT WHEN AN IMPACT IS SEVERE ENOUGH TO REQUIRE COMPLETE REPLACEMENT OF THE ATTENUATOR. THE CONTRACTOR SHALL HAVE A SPARE PARTS PACKAGE AVAILABLE ON THE PROJECT SITE AT ALL TIMES WHEN AN ATTENUATOR IS IN PLACE. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE COMPLETE SPARE PARTS PACKAGE FOR EVERY 1 TO 6 UNITS INSTALLED ON THE PROJECT SITE. FOR EXAMPLE, 5 INSTALLED UNITS REQUIRE 1 SPARE PARTS PACKAGE AND 7 INSTALLED UNITS REQUIRE 2 SPARE PARTS PACKAGES.

WHEN BI-DIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS. PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 614, TEMPORARY IMPACT ATTENUATOR, BIDIRECTIONAL, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT, MAINTAIN, REPAIR, REPLACE OR RELOCATE 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.

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[0:\93197\DWGS\SR254\9

SEQUENCE OF OPERATIONS

1. All ramp work should be performed prior to the completion of phase IV of S.R. 254. In the event that the ramp has not been completed at this time, only one left turn lane from S.R. 254 onto ramps "K" and "H" may be opened to traffic.

S.R. 254

PHASE 1

Traffic Control

1. Close the outside S.R. 254 westbound lane per maintenance of traffic standard construction drawing MT-95.31. Closure is to be between 10:00 p.m. and 6:00 a.m., with normal traffic patterns restored by 6:00 a.m..

Work Proposed

1. Construct 9' of temporary pavement using Item 615 — Temporary Pavement from station 84+00 to station 96+00. Construct a 2' temporary shoulder using 8" of Item 304 — Aggregate Base along the temporary pavement.

PHASE II

Traffic Control

1. Close the inside S.R. 254 (each direction) per maintenance of traffic standard construction drawing MT-95.32. Closure is to be between 10:00 p.m. and 6:00 a.m., with normal traffic patterns restored by 6:00 a.m..

Work Proposed

1. Remove existing concrete median, including 1 foot of pavement on either side. Construct proposed pavement in trench. All trenches shall be filled before 6:00 a.m.

PHASE III

Traffic Control

1. Maintain at least one 11 foot lane in each direction on the left side of S.R. 254 using temporary pavement markings, drums, and portable concrete barrier Three lanes can be placed near the ramp intersections to accommodate a turn lane. Traffic to be returned to normal operation east of the eastbound ramps.

Work Proposed

- 1. Construct proposed pavement widening and shoulders along the south side of S.R. 254, west of station 96+10, except 448 surface course.
 - 2. Perform structure widening on the south side of the bridge over I-90.
- 3. Construct the south side of the approach slab and sleeper slab on both the east and west sides of the bridge.
- 4. Construct pavement build—up with 301 from station 83+83 to station 85+21.36 and from station 88+94.88 to station 89+28.
- 5. With barrier tapers moved, construct 448 intermediate course from station 80+88.37 to sta. 85+21.36 and from station 88+94.88 to station 93+37.12, including the variable depth portions. This shall be done using flaggers to maintain traffic.

PHASE IV

1. Maintain at least one 11 foot lane in each direction and one 12 foot turn lane on the right side of S.R. 254 (east of the westbound ramps) using temporary pavement markings, drums, and portable concrete barriers. Traffic to be returned to normal operation east of the eastbound ramps.

Work Proposed

- 1. Construct proposed pavement widening and shoulders along the left side of S.R. 254, west of ramp "K", except 448 surface course.
 - 2. Perform structure widening and closure pour on the bridge over I-90.
- 3. Construct the north side of the approach slab and sleeper slab on both the east and west sides of the bridge.
- 4. Construct all 301 and 448 intermediate courses between the stations noted in phase III.

PHASE V

Traffic Control

1. Close outside lane of S.R. 254 westbound per maintenance of traffic standard construction drawing MT-95.31.

Work Proposed

1. Construct proposed pavement widening and shoulders along left side of S.R. 254, east of ramp "K", except 448 surface course.

PHASE VI

Traffic Control

1. Close outside lane of S.R. 254 eastbound per maintenance of traffic standard construction drawing MT-95.31.

Work Proposed

1. Construct proposed pavement widening and shoulders along right side of S.R. 254, except surface course, east of station 96+10.

PHASE VII

1. Resurfacing and surface course per typical sections to be performed using flaggers.

RAMPS

All ramp work will be constructed in the same three phase manner.

PHASE I

Traffic Control

1. Maintain one 11.5 foot minimum lane on the right side of the existing ramp pavement, using drums. Drums to be moved to the shoulder at night, permitting unrestricted use of the 16' existing pavement.

Work Proposed

- 1. Construct 6'-0" temporary pavement on left side of existing pavement using Item 615 Temporary Pavement.
 - 2. Construct 2 foot temporary shoulder using 8" of Item 304 Aggregate Base.
- 3. This will be a daytime only operation with no night closure permitted. All excavated shoulder material must be replaced with Item 615 Temporary Pavement at the end of the days operation, permitting unrestricted use of the 16' pavement.

PHASE II

Traffic Control

1. Maintain one 11.5 foot minimum lane on the left side of the existing and temporary pavement using temporary pavement markings and drums.

Work Proposed

- 1. Construct new shoulder on right side of existing pavement.
- 2. Perform joint repair on right side of existing pavement.
- 3. Construct additional temporary pavement necessary to return traffic to normal operation at gore.

PHASE III

Traffic Control

1. Maintain one 11.5 foot minimum lane on the right side of existing and new shoulder using temporary pavement markings and drums

Work Performed

- 1. Construct pavement widening and new shoulder on left side of existing pavement.
- 2. Perform joint repair on left side of existing pavement.

PHASE IV

1. Resurface ramps to be performed per typical sections using flaggers.

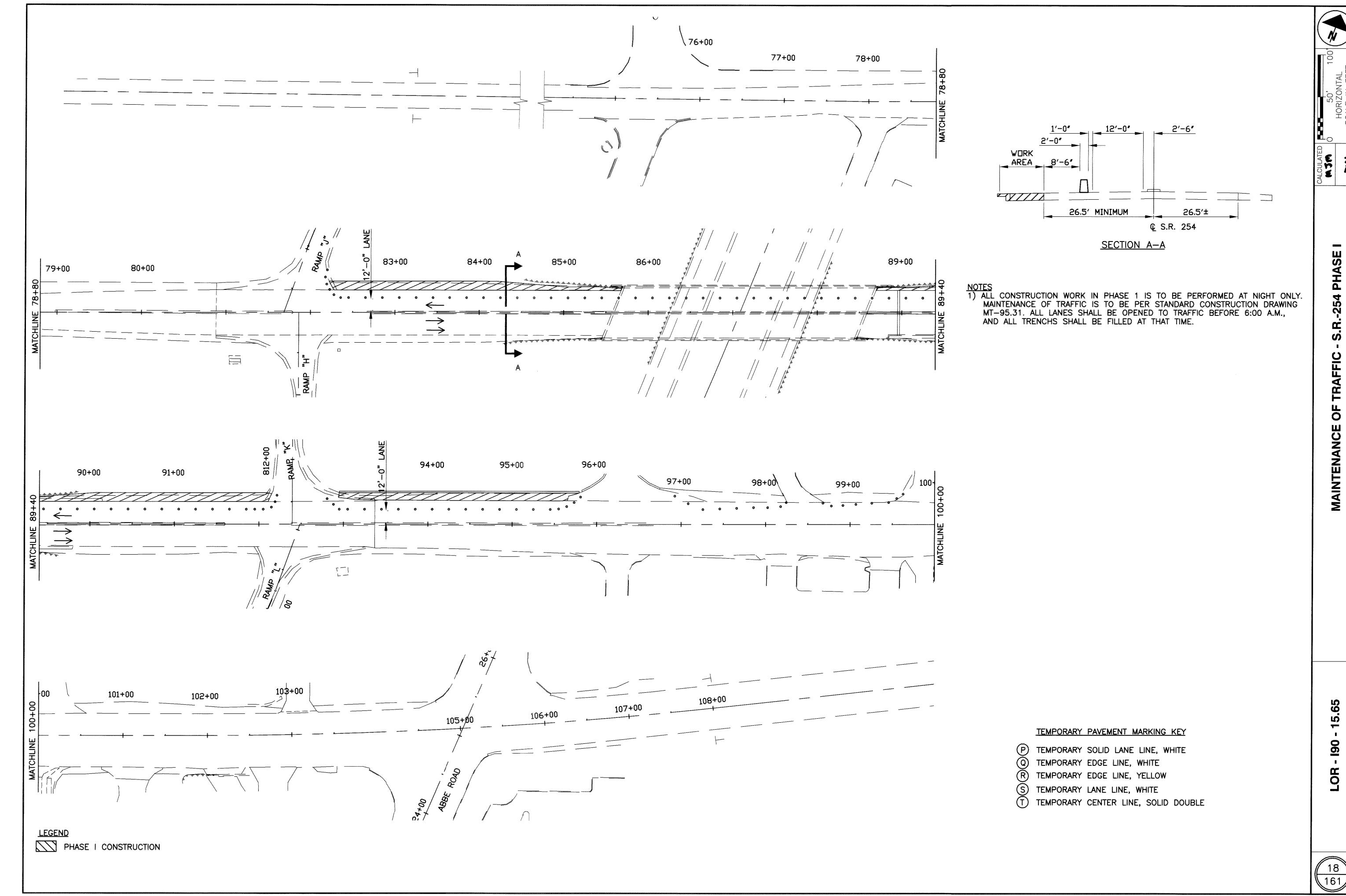
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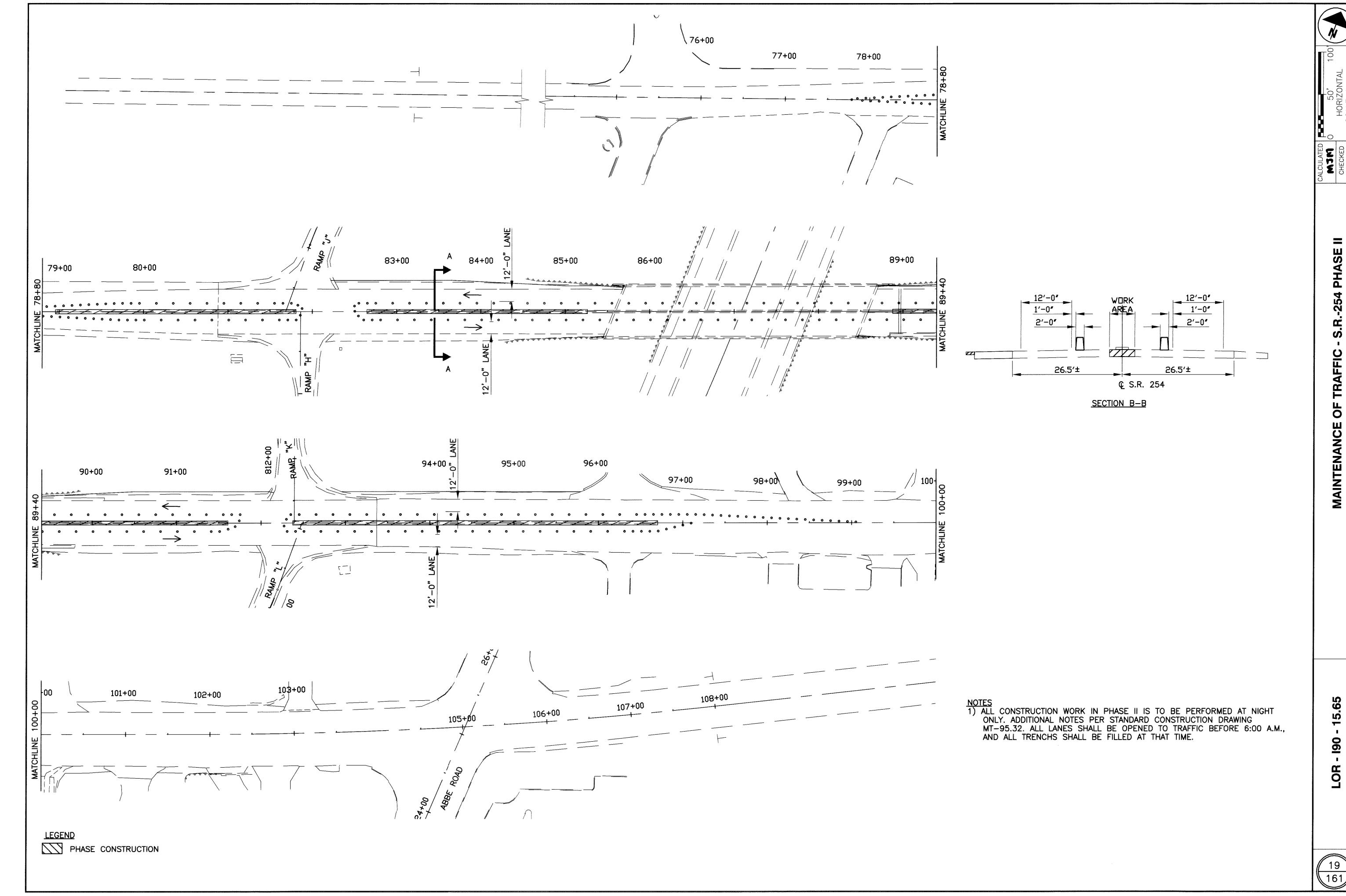
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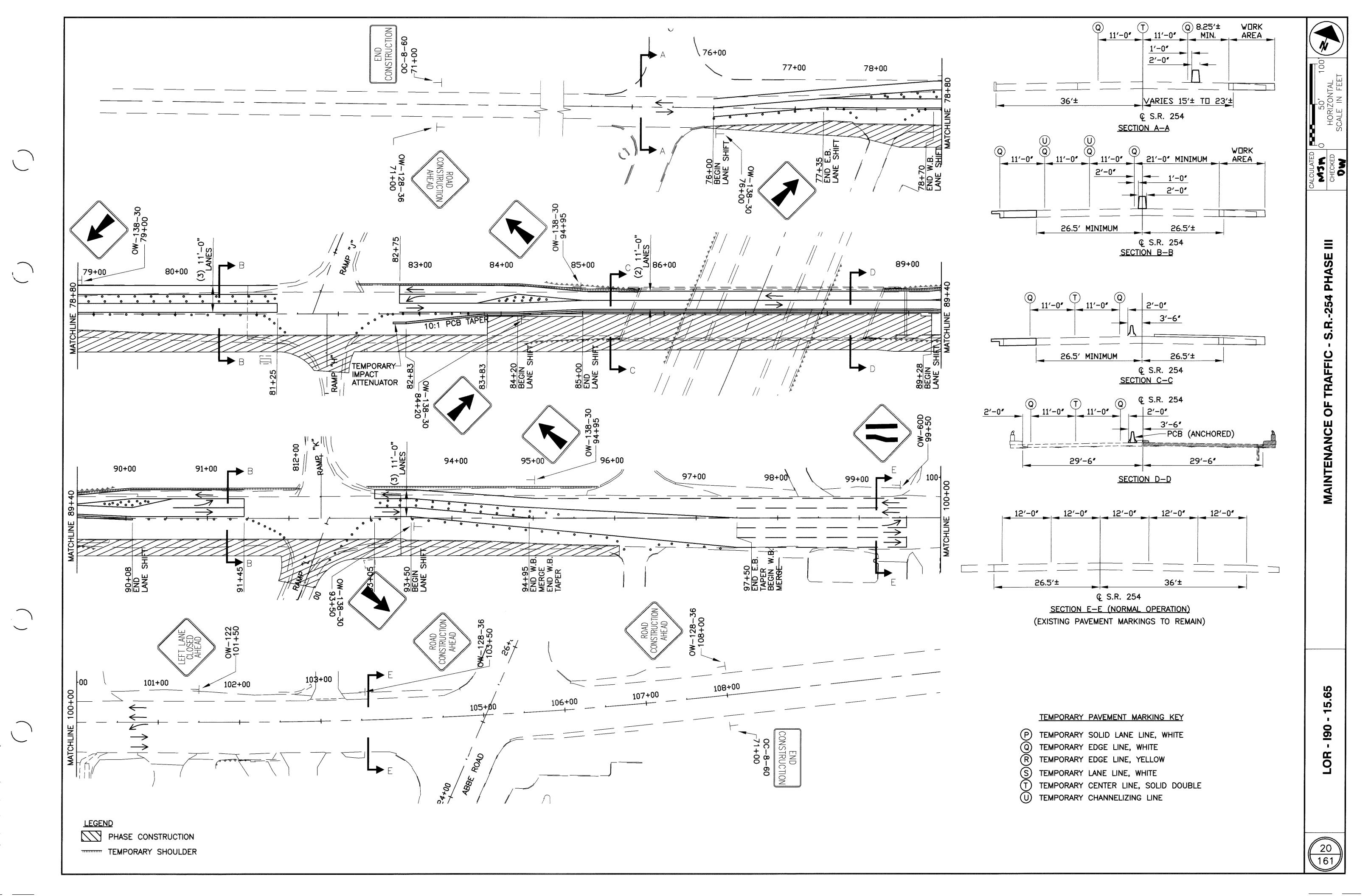
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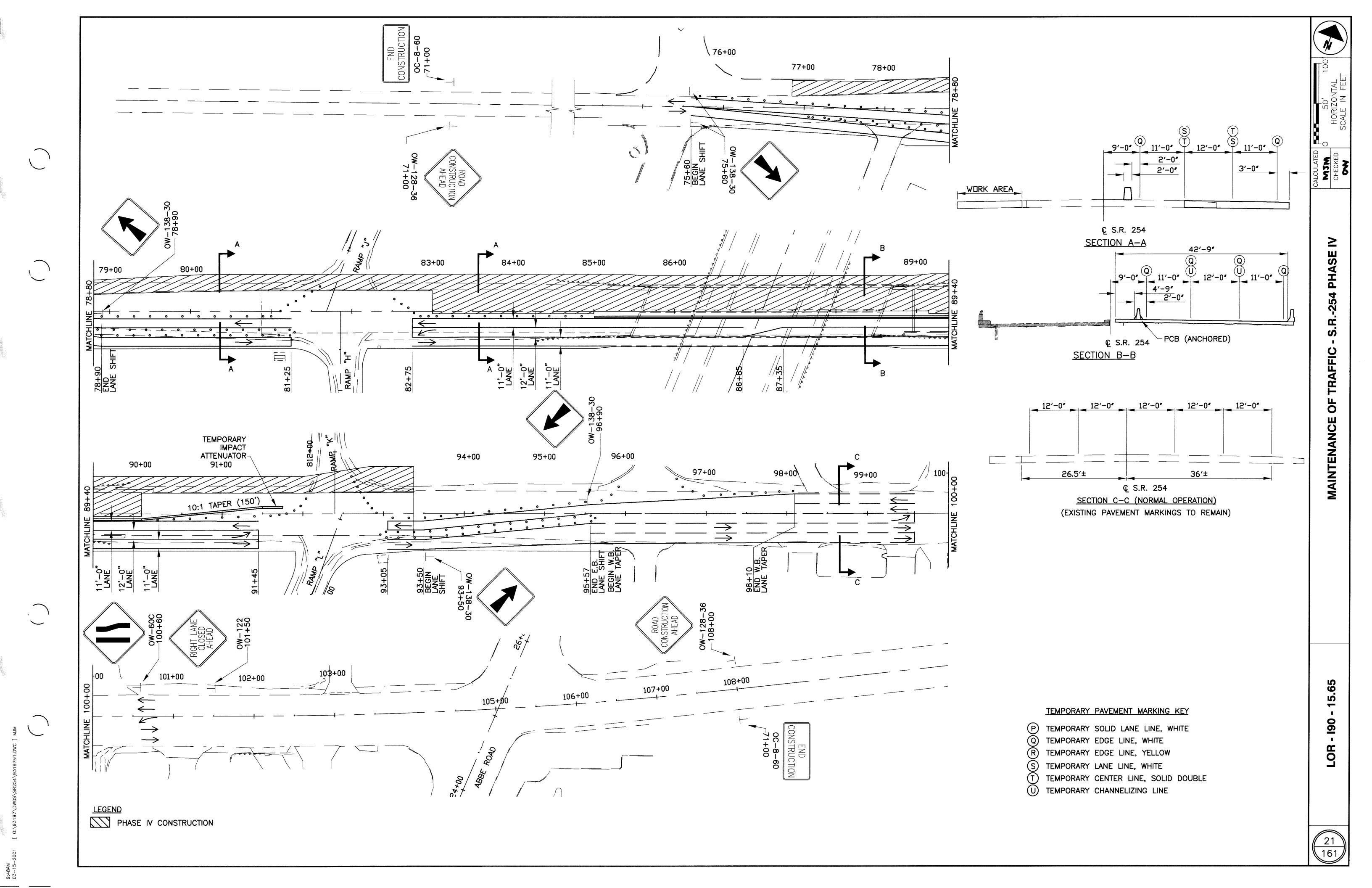
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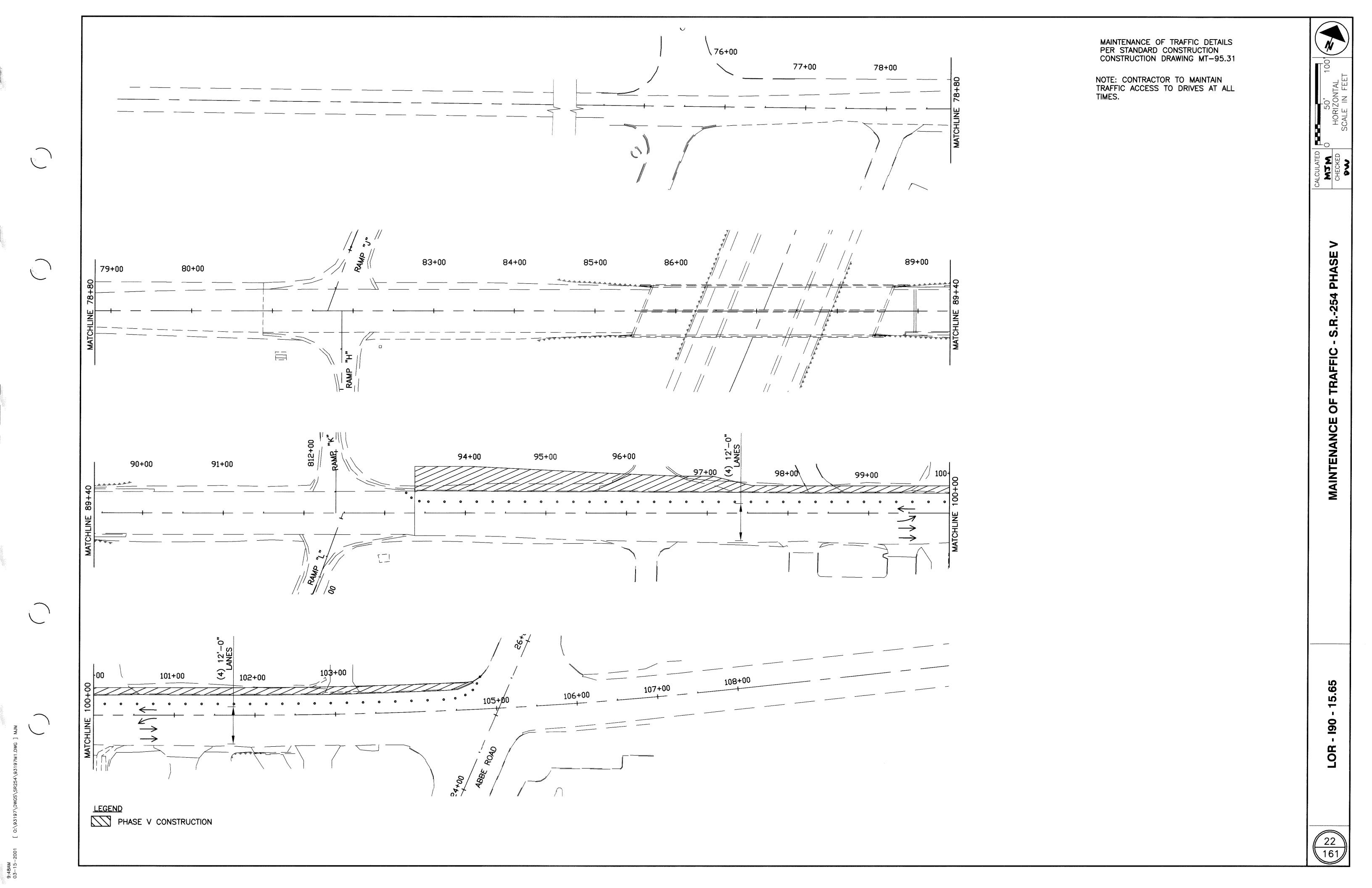


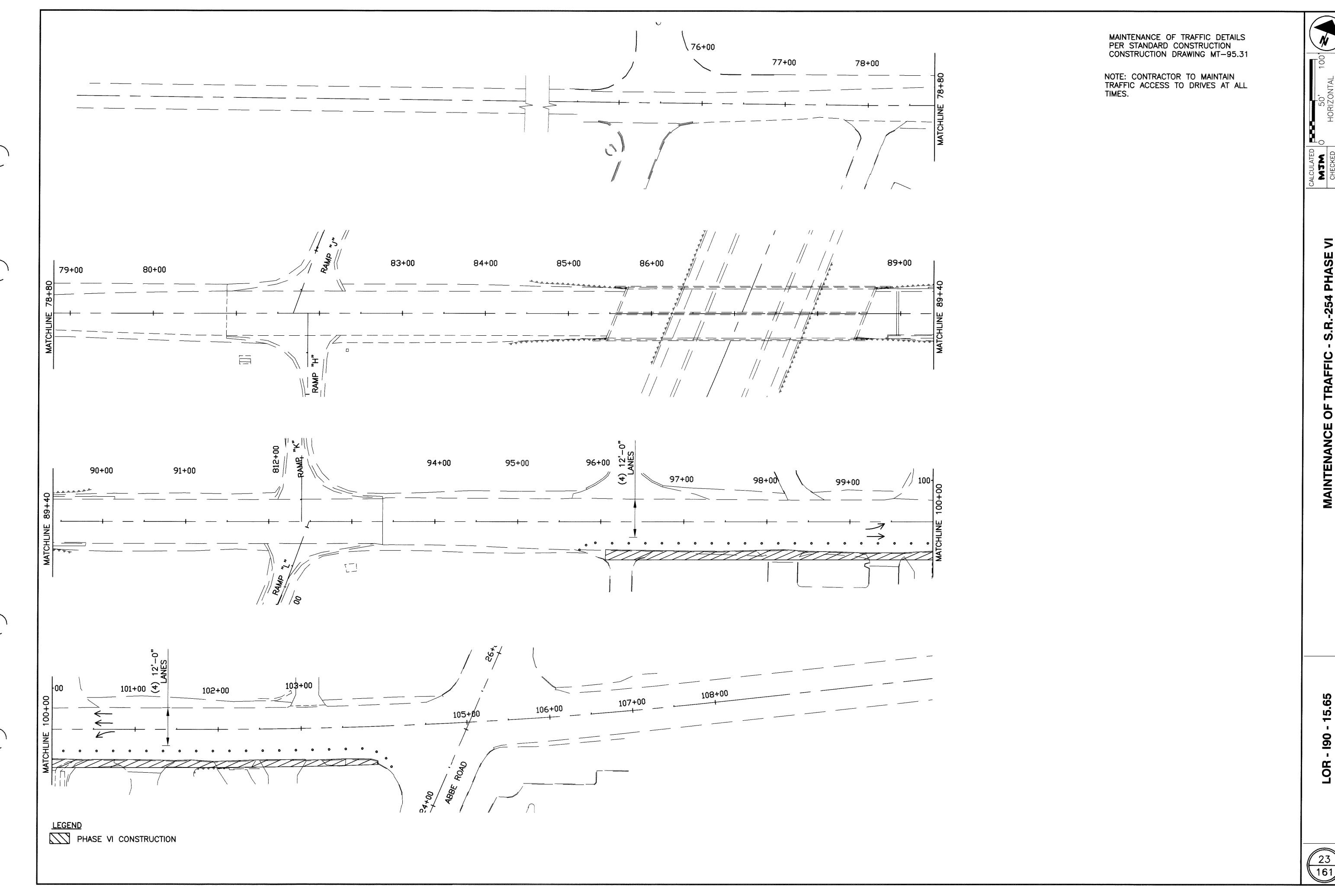


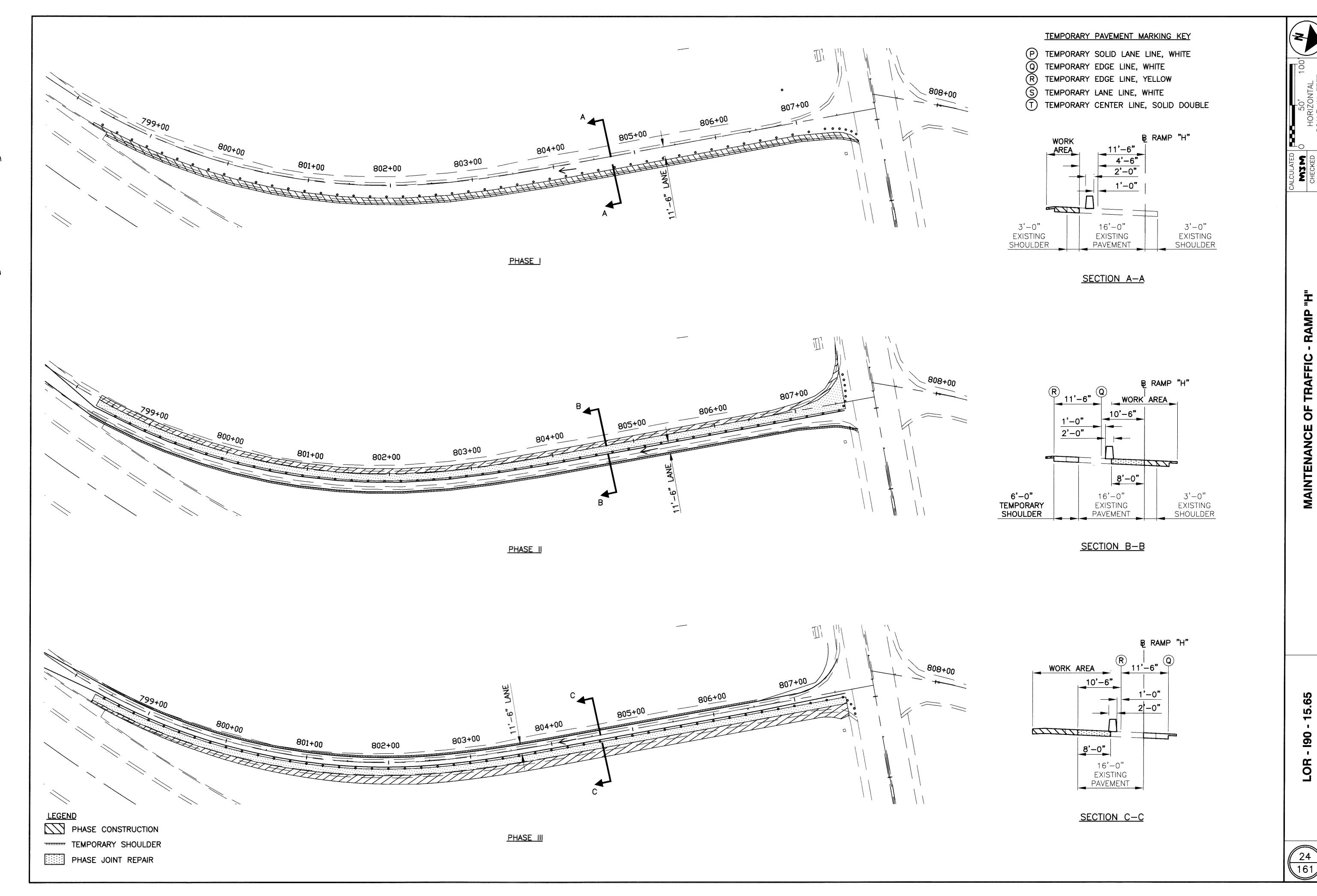


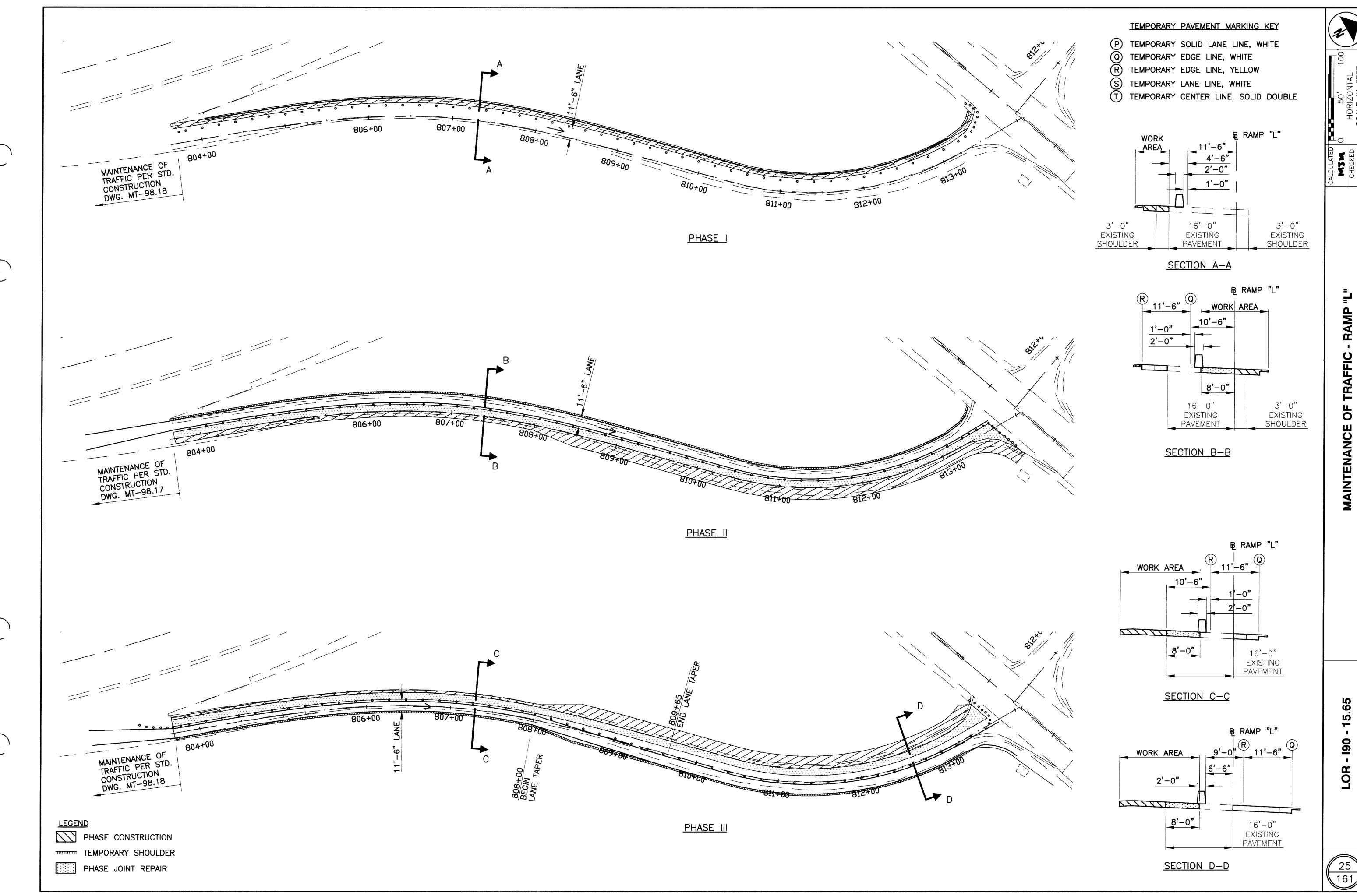
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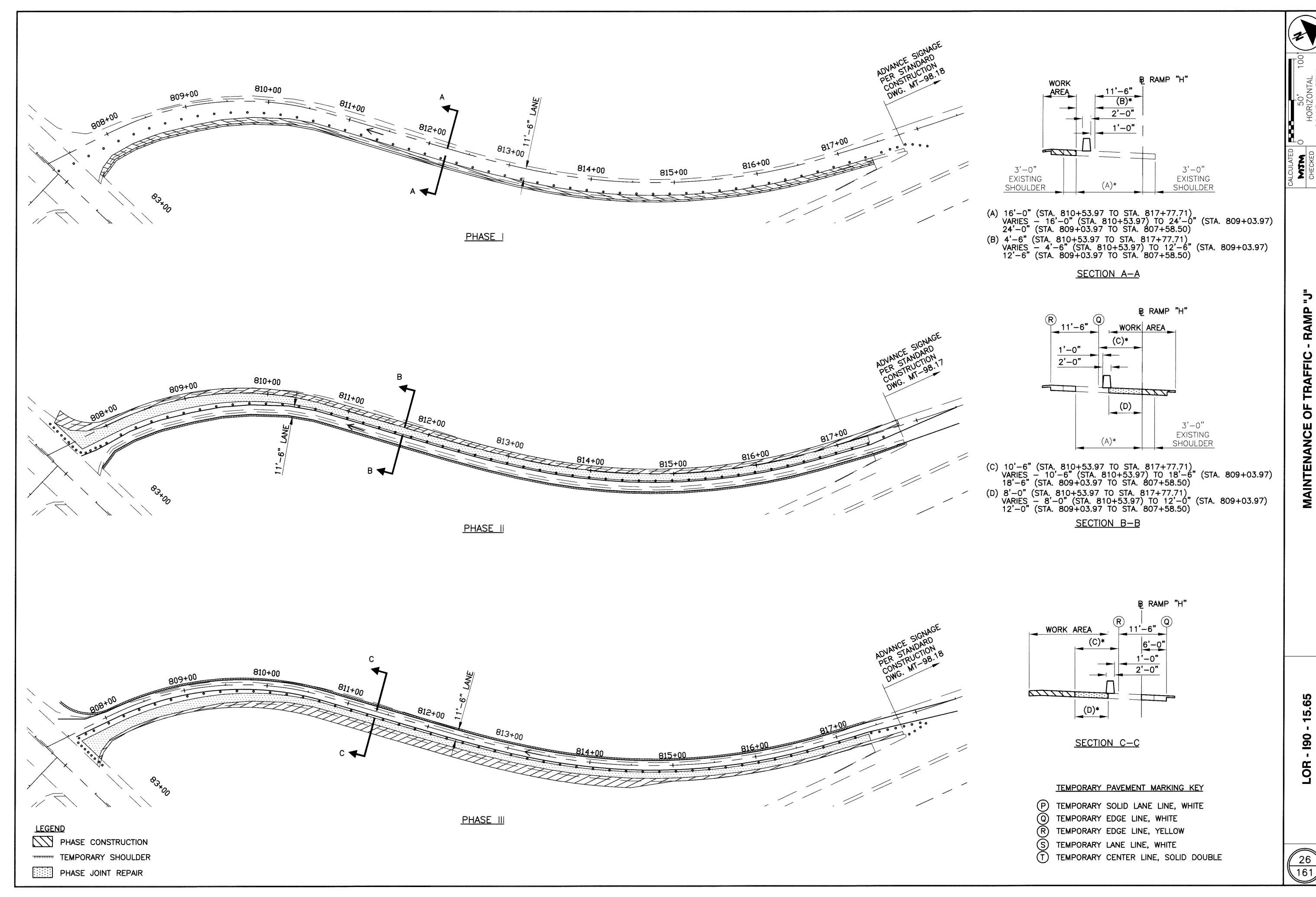


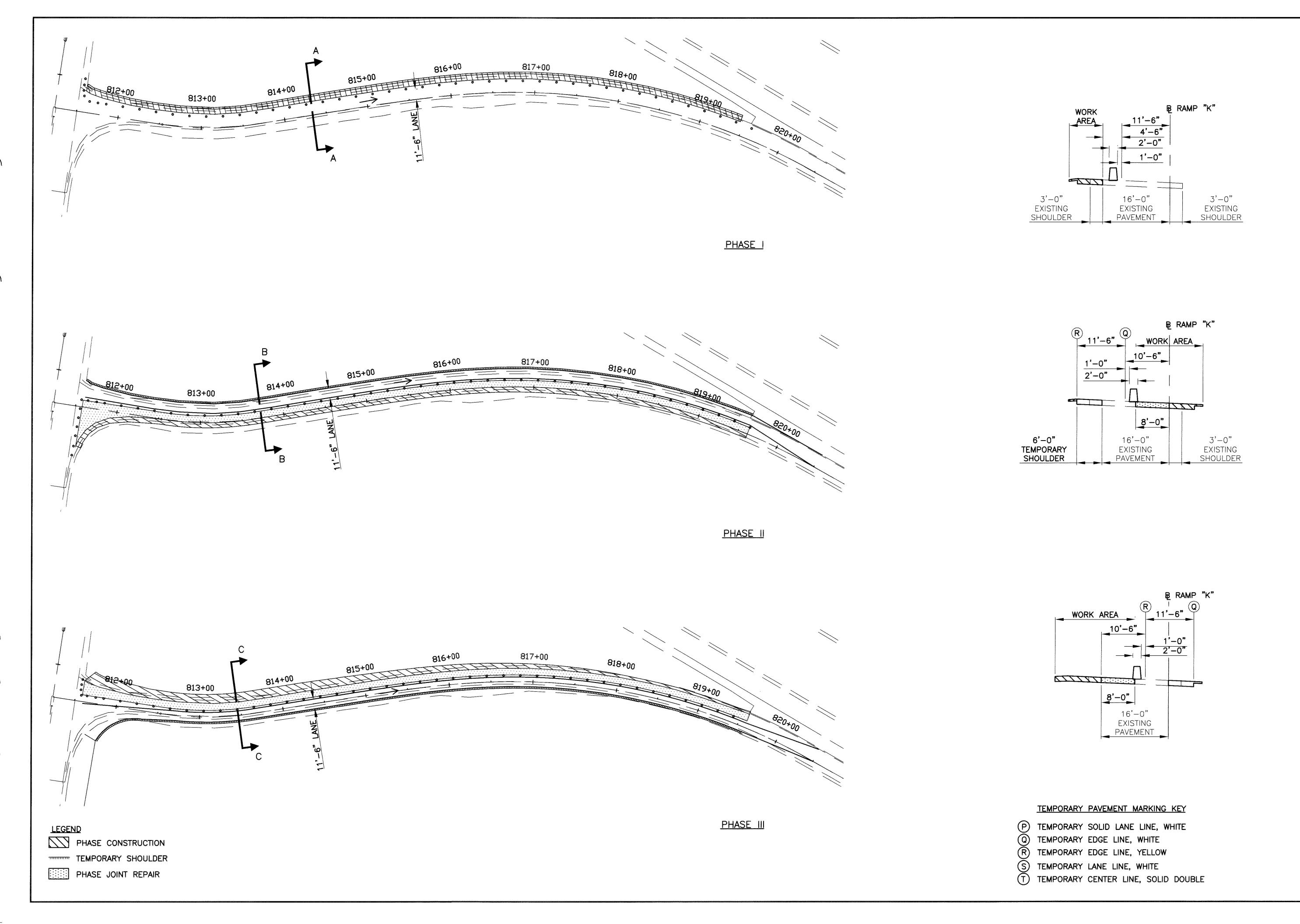












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							5006	70							304	20000	5076	CU. YD.	AGGREGATE BASE
							1111	15							407	14000	1126	GALLON	TACK COAT FOR INTERMEDIATE COURSE TACK COAT
		·					27557					7.00, 1 4.00			407	10000	27557	GALLON	
* 1 A Salah Managan Ma						5,5,5,7	6942		A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						408	10000	6942	GALLON	BITUMINOUS PRIME COAT
	ha danan da manda manda da haman da ham						1283	11							446	47020	1294	CU. YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
							1445	17							448	46050	1462	CU. YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22
							180	40						11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SPECIAL	45130000	180	LIN. FT.	PRESSURE RELIEF JOINT, TYPE A, AS PER PLAN 13
							046	48				SECURIO			452	12000	48	SQ. YD.	8" PLAIN CONCRETE PAVEMENT
				V 1 A L 1			246	0.4							611	25000	246	SQ. YD.	REINFORCED CONCRETE APPROACH SLAB (T = 15")
		P 1, 1 1, 1 1, 1 1, 1 1, 1 1, 1 1, 1				:	783	24 112							830 830	18000 26000	24 895	LIN. FT. LIN. FT.	COMBINATION CURB AND GUTTER, TYPE 3 CURB, TYPE 6
									NAME AND TO THE OWNER OF THE OWNER OW										
																			WATER WORK (V OCA)
						1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	man a mana a participa de la comunidad de la c			VA,				/// ***********************************		. 1754-			WATER WORK (Y-060)
													1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		670	02500	405	- 1 1 1 page	
											465 200				638 638	07310	465 200	LIN. FT.	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, MECHANICAL JOINTS AND FITTINGS 24" STEEL PIPE ENCASEMENT, BORED OR JACKED 12" CUTTING—IN SLEEVE, VALVE AND VALVE BOX FIRE HYDRANT ADJUSTED TO GRADE VALVE BOX ADJUSTED TO GRADE
											T	1 1			638 638	09200 10400	1	EACH EACH EACH	FIRE HYDRANT ADJUSTED TO GRADE
		***************************************				\		1717.				5			638	10800	6	EACH	
			The state of the s			The second of the formation of the second of	1 to								005	44000			LIGHTING
						MANTHANY LA PIP 17 A.	AVI I AND AND THE STATE OF THE						75	50	625 625	14200 25402	125	EACH LIN. FT.	LIGHT POLE FOUNDATION, 24" X 10' DEEP CONDUIT, 2", 713.07
							V 10 - 2/10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -				1.00		1 715	1	625 625	26250 28000	2 888	EACH EACH	LUMINAIRE, CONVENTIONAL GLARE SHIELD TRENOUL AS DEP. DI AN.
#		:			<u> </u>				TO THE STATE OF TH				315	573	625	29001		LIN. FT.	TRENCH, AS PER PLAN 130
								11 * North Park 10 Let des Annies Ann			And Annual in the International Committee		75 3	50 6	625 625 625	29600 30700	125 9	LIN. FT. EACH EACH	TRENCH IN PAVED AREA, TYPE B PULL BOX, 713.08, 18" GROUND ROD
				:									2 430	2 708	625 625	32000 35010 98100	4 1138	EACH LIN. FT.	REMOVE AND REERECT EXISTING LIGHT POLE LIGHTING, MISC.: 1-1/2" DUCT CABLE WITH TWO NO. 4 AWG 480 VOLT CABLES
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									450	700	025	90100	1138	LIIV. I I.	LIGITING, MISC.: 1-1/2 DOCT CADLE WITH TWO NO. 4 AWG 400 VOLT CADLES
													A Commission of the Commission				NAME OF THE PROPERTY OF THE PR		
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5	126	127	128	129	131A	131C	131E	131G				ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	REF.	,
																TRAFFIC CONTROL		
.0												630	02100	26.0	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 2 POST		
.5	196.0	291.5	273.5	288.5		.,,,,,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					630	03100	1185.0	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 3 POST		_
			w	30.0 29.0								630 630	06400 06500	30.0 29.0	LIN. FT.	GROUND MOUNTED SUPPORT, S4 x 7.7 BEAM GROUND MOUNTED SUPPORT, W6 x 9 BEAM		
1,		<u></u>	17.0	16.0			1					630	08004	33.0	LIN. FT.	ONE WAY SUPPORT, NO. 3 POST		
				8								630	09000	8	EACH	BREAKAWAY BEAM CONNECTION		
***************************************	1								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		//	630	25700	2	EACH	COMBINATION OVERHEAD SIGN SUPPORT, TYPE TC - 12.30, DESIGN 7		
25 .0	53.75	50.00 180.0	82.00	92.00								630 630	80102 80204	327.00 225.0	SQ. FT. SQ. FT.	SIGN, FLAT SHEET, TYPE G SIGN, EXTRUSHEET, TYPE G		
				2			:					630	82000	2	EACH	SIGN BACKING ASSEMBLY		
				4								630	84500	4	EACH	GROUND MOUNTED BEAM SUPPORT FOUNDATION		
	1						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					630	84510	2	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION		_
	2 13	6 12	<u> </u>	1 12			<u> </u>					630 630	84900 85100	13 46	EACH EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL REMOVAL OF GROUND MOUNTED SIGN AND REERECTION		
	2	12	<u> </u>	2								630	85600	6	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION		
	7	12						TAN Sandan Lamba (Nichita) a fa annan Lamba (Nichita) a fa annan Lamba (Nichita) an faibh (630	86002	33	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		
	,	1 4	1 10 10 10 10 10 10 10 10 10 10 10 10 10	6 2								630	86102	2	EACH	REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND DISPOSAL		
	3									,		630	87400	4	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL		
0	0.35	0.36	0.74	0.80	1		1		1			644	00100	2.55	MILE	EDGE LINE		
4	0.32	0.32	0.11	0.19								644	00200	1.08	MILE MILE	LANE LINE		
7 5	0.20 1305	0.25 1798	300	420								644 644	00300 00400	0.72 4788	LIN. FT.	CENTER LINE CHANNELIZING LINE		
	84	355	38	54						/ / / / / / / / / / / / / / / / / / / /		644	00500	608	LIN. FT.	STOP LINE		
3	378											644	00700	936	LIN. FT.	TRANSVERSE LINE		
9	239	· 16 · 10.	_		11.10.10.10.10.10.10.10.10.10.10.10.10.1							644	00900	478	SQ. FT.	ISLAND MARKING		
	7 7	21 4	4 2	6 3								644 644	01300 01400	49 20	EACH EACH	WORD ON PAVEMENT, 72"		
5	631	•										644	01500	947	LIN. FT.	DOTTED LINE, 4"		

																SIGNALIZATION		
					612	605	20	100				625	25402	1337	LIN. FT.	CONDUIT, 2", 713.07		
		:			200 670	189 655	50 70	17 117				625 625	25502 29001	456 1512	LIN. FT. LIN. FT.	CONDUIT, 3", 713.07 TRENCH, AS PER PLAN	130	
					142	139	/	11/				625	29600	281	LIN. FT.	TRENCH, AS PER PLAN TRENCH IN PAVED AREA, TYPE B	100	***************************************
					3	3		1				625	30700	7	EACH	PULL BOX, 713.08, 18"		
					3	3	2	2				625	30706	10	EACH	PULL BOX, 713.08, 24"		
		***************************************	140-4	Activities and the second seco	9	9	4	5				625 632	32000 00300	27 25	EACH EACH	GROUND ROD VEHICULAR SIGNAL HEAD, 3 SECTION, 12" LENS, 1—WAY		
					0	<u> </u>	4	4		TO TO THE PARTY OF		632	00501	8	EACH	VEHICULAR SIGNAL HEAD, 5 SECTION, 12" LENS, 1—WAY, AS PER PLAN	130	
							1					632	01101	1	EACH	VEHICULAR SIGNAL HEAD, 3 SECTION, 12" LENS, 2-WAY, AS PER PLAN	130	_
					14	17	5	8				632	26500	44	EACH	DETECTOR LOOP		
					14	17	5	8				632	27004	44	EACH	LOOP DETECTOR UNIT		
					648	745	398 550	655 622				632 632	40500 40700	2446 1172	LIN. FT. LIN. FT.	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG. SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG.		
					2	2	3	4				632	64000	11	EACH	STRAIN POLE FOUNDATION	AN MARINE AND A MA	
					3908	5402	545	1398	, , , , , , , , , , , , , , , , , , , ,			632	65300	11253	LIN. FT.	LOOP DETECTOR LEAD-IN CABLE, 2 CONDUCTOR, NO. 14 AWG.		
N 1000 P N 1	:	7 · · · · · · · · · · · · · · · · · · ·	····		440	106		110				632	67300	216 208	LIN. FT.	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG.		
					116 1	1	92	1				632 632	68300 70000	4	LIN. FT. EACH	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG. POWER SERVICE		
		:			1	1	2	3				632	82600 82600	7	EACH EACH	STRAIN POLE, TYPE TO 81.10, DESIGN 6		74474474
					1							632	82600	4	EACH	STRAIN POLE, TYPE TC-81.10, DESIGN 6 WITH SERVICE WIRE ENTRANCE		·
						1	1	1				633	38001	3	EACH	CONTROLLER, ACTUATED, 8 PHASE, SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN	130 130A	
					1 1	1	1	1				633 633	39001 70000	4	EACH_ CU. YD.	CONTROLLER, MASTER, TRAFFIC RESPONSIVE, AS PER PLAN CONCRETE FOR CABINET FOUNDATION	IJUA	
					9	9	9	9				633	70500	36	SQ. FT.	CONTROLLER WORKPAD	The state of the s	
																STRUCTURES		~~~
			···													SEE STRUCTURE PLANS FOR ESTIMATED QUANTITIES, SHEET 135		_
	2004 A DAGOOO LANG A PARAMETER												100 Miles (100 Miles (100 - 100 Mahada ka hari Anna Anna Anna Anna Anna Anna Anna Ann	**************************************			_
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3	14	15	17	32	33	34	35	36	38	44				EXT.	TOTAL		DESCRIPTION REF
		NAMES AND A STATE										****					MAINTENANCE OF TRAFFIC
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		100				V - / \							410	1,000	100		TRAFFIO COMPACTED CUREACE TYPE A OR R
													410	12000	100	CU. YD.	TRAFFIC COMPACTED SURFACE, TYPE A OR B
- 1		220	1				Marinish Ayer Very Very Area and a management of the analysis of the area and a management of the area			The second secon			614 614	11100 12336	220 1	HOUR EACH	LAW ENFORCEMENT OFFICER WITH PATROL CAR TEMPORARY IMPACT ATTENUATOR (UNDIRECTIONAL) REPLACEMENT SIGN
		100 150											SPECIAL SPECIAL	61412500 61412600	100 150	SQ. FT. EACH	REPLACEMENT DRUM
		61											614	13300	61	EACH	BARRIER REFLECTOR, TYPE B
		61	0.46					1					614 614	13350 21000	61 0.46	EACH MILE	OBJECT MARKER TEMPORARY CENTERLINE, CLASS I
			5.24										614	22000	5.24	MILE	TEMPORARY EDGE LINE, CLASS I
			1002 134										614 614	23000 26000	1002 134	LIN. FT. LIN. FT.	TEMPORARY CHANNELIZING LINE, CLASS I TEMPORARY STOP LINE, CLASS I
			12										614	30000	12	EACH	TEMPORARY LANE ARROW, CLASS I
			3413								e de la companya de l		615	20000	3413	SQ. YD.	TEMPORARY PAVEMENT, CLASS A
		150											616	10000	150	M. GAL.	WATER
		12											616	20000	12	TON	CALCIUM CHLORIDE
			685										622	40020	685	LIN. FT.	PORTABLE CONCRETE BARRIER, 32"
			690					N N N N N N N N N N N N N N N N N N N					622	40040	690	LIN. FT.	PORTABLE CONCRETE BARRIER, 32", BRIDGE MOUNTED
																	-
													614 623	11000 10000	LUMP LUMP		MAINTAINING TRAFFIC (PART 1 AND PART 2) CONSTRUCTION LAYOUT STAKES (PART 1 AND PART 2)
													624	10000	LUMP	dia .	MOBILIZATION (PART 1 AND PART 2)
													806	16010	12	MONTH	FIELD OFFICE, TYPE B (PART 1 AND PART 2)
					4. ::								•				
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SUB-SUMMARY

UNDERDRAINS

	:					2	02	203	3	01	3	04	407	407	408	446	4	48	830	611	SPECIA		1
STATION		7	IDTH	ч REA	/ERAGE			Z	(0)	64–22			FOR IRSE AL/SQ.	AL/SQ.	(a b	HALT URFACE PE 1,		TE YPE 2,	9	SLAB	RELIEF E "A", AN		-
		PTF	≥	PT.	A	5	Q	DE TIOI	SUG	i O	ATE		2000 2000	DAT G	BITUMINOUS PRIME COAT	ASPH TE S TYF 22		DIA DIA C22	YPE	SEE SEE	RE 7		
	HT	DE RAGE	OVERLAY AVERAGE	DE	Z Z	PAVEMENT	OVE	A & A	MINO	ı b	ZEG.	1.1	7. CC 0.04	27.00	MIN	1 . 4.16.1	AL.	CONCRE I INTERMEI COURSE, PG 64-2	E	FOR SOA 5")	SSU VT, 1	i	
ROM TO	ENG	FULL AVER WIDTI	VER VER	ULL VER	OVER	AVE	EM	SUBG	E	AGGNE BASE,	AGGRI	ASE	TACK INTER (@ C	TACK (@ 0 YD.)	IJTI NIN	CONCRI COURSI PG 64-	SP	C C E	URE	REINF CONCI APPR((T=15	1 H S v		
	77	Œ ₹ ≯	OA	Ε¥	OA	WIDTH	Ω ADEA	AREA	DEPTH I		\ \CDTU \	<u> </u>	F & Ø X	1607	a c	-888	DFPTH		U			AMILIAN I	_
. 254	FT.	LIN. FT	LIN. FT	S.F.	S.F.	FT.	SQ. YD.	SQ. YD.	IN.	CU. YD.	IN.	CU. YD.	GAL.	GAL.	GAL.	CU. YD.	IN.	CU. YD.	LENGTH LIN. FT.		LENGTH LIN. FT		ᆀ
ON PROJECT TO 80+8																							
-89.03 76+25.03 -89.03 76+25.03	36.00 N.E. CORNE	2.29 R OF DRIVE	60.25	82.4 N	2169.0 260.0			9	6	2	12.25	5	1	181 22	4	9	1.75	1					$-\ $
-25.03 76+84.67	59.64	31.55	61.88	1881.6	3690.5	21.0	139	209	6	36	12.25	73	9	308	84	14	1.75	10					
84.67 77+80.00 80.00 78+30.00	95.33 50.00	37.67 38.18	65.67 75.23	3591.1 1909.0	6260.3 3761.5	16.8 14.3	178 80	399 212	6	36	12.25 12.25	138 74	16	522 314	160 85	24 15	1.75 1.75	20 11					
-30.00 80+25.00 -97.63 80+88.37	195.00 190.74	43.58 5.00	87.23 —	8498.1 953.7	17009.9	11.0 3.0	239 64	944 106	6	160 18	12.25 12.25	326 36	38	1418	378 43	66	1.75 1.75	46 5				CONCRETE MEDIAN	4
25.00 80+88.37	63.37	39.00	92.00	2471.4	5830.0	9.5	67	275	6	47	12.25	95	11	486	110	23	1.75	14				CONCRETE MEDIAN	
GIN EXISTING CONCRE 88.37 83+00.00		IT) TO APPRI	OACH SLAB 91	8676.8	19258.3	2.0	47	964	6	164	9	245	86	1605	386	75	1.75	104					
88.37 81+79.41	91.04	5	0	455.2	0.0	5.0	51	51	6	10	9	15			20							CONCRETE MEDIAN(BASE ONLY)	
65.00 83+00.00 00.00 83+83.00	34.50 83.00	46	91	172.5 3818.0	0.0 7553.0	5.0 2.0	19	19 424	6	72	9	108	34	630	170	29	3.25	76				CONCRETE MEDIAN(BASE ONLY)	
-83.00 85+27.36 -83.00 85+27.36	144.36 144.36	45.29 45.29	91.29 91.29	6538.1 6538.1	13178.6 13178.6	7.0	113	727	6 4,77	123 99	13.77	282	59	1098	291	51	1.75	72				(NOT INCLUDING BASE IN OVERLAY) EXTRA BASE IN OVERLAY	
+09.71 85+38.71 ·	29.00	+0.23	J 1.23	0000.1	10170.0			14/14/2004	Te//	33								MALALALA MALALA NO COMPANIONI MALALAMA POR TOTO CONTRACTOR CONTRAC	29			EXTRA DASE IN OVERLAT	
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77.53 89+57.34	80.00																		80				
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APPROACH SLAB TO							V/5/11/00/04 A 444 A					NAME OF THE OWNER OWNER OF THE OWNER OWN		:							90		
88.88 89+28.00 88.88 89+28.00	39.12 39.12	43.56 43.56	89.57 89.57	1704.1 1704.1	3504.0 3504.0	7.0	31	190	6 3.91	32 22	12.91	69	16	292	76	14	1.75	19				(NOT INCLUDING BASE IN OVERLAY) EXTRA BASE IN OVERLAY	-11
28.00 90+00.00	72.00	45.94	91.94	3307.7	6619.7	7.0	56	368	6	62	9	93	30	552	147	26	3.25	67					
00.00 92+08.82 00.00 91+60.05	208.82 160.05	41 5	92	8561.6 800.2	19211.4	2.0 5.0	4 / 89	952 89	6	161 15	9	242 22	86	1601	381 36	74	1.75	104				(NOT INCLUDING BASE IN MEDIAN) CONCRETE MEDIAN (BASE ONLY)	-11
-08.82 93+37.12 -37.88 93+37.12	128.30 99.24	53	104	6799.9 496.2	13343.2	2.0 5.0	29 55	756 55	6	128	9	192 14	60	1112	302 22	52	1.75	72				(NOT INCLUDING BASE IN MEDIAN)	
IN EXISTING ASPHALT	TO END PR	OJECT		T3U.Z		J.U	JJ			3	3	17			22							CONCRETE MEDIAN (BASE ONLY)	
37.12 97+98.05 37.12 94+05.00	461.00 67.88	54.1	104	3672.3	7059.5	3.0	23	408	6	69	12.25	141	17	589	163	27	1.75	20	461				
05.00 96+50.00	245.00	44.4	98	10878.0	24010.0	3.0	82	1209	6	205	12.25	418	49	2001	484	93	1.75	59					
50.00 97+70.00 50.00 96+68.21	120.00 18.21	31 5	92	3720.0 91.0	11040.0	3.0	6	414 10	6	2	12.25 12.25	144	17	920	166 4	43	1.75 1.75	20 1				(NOT INCLUDING BASE IN MEDIAN) CONCRETE MEDIAN (BASE ONLY)	
70.00 98+20.00 20.00 104+56.90	50.00 636.90	28 22	86 70	1400.0 14011.8	4300.0 44583.0			156 1557	6	27 268	12.25 12.25	54 546	6 63	359 3715	62 623	17 172	1.75 1.75	7 76					
-71.63 104+94.41	030.90	22	70	14011.0	77303.0			1337	. 0	200	12.20	<u> </u>		3/13	023	172	1.75	70	32				
-92.28 104+20.00 UCT FOR RAMP "H"				A WATER CONTROL OF THE PARTY OF															73				
UCT FOR RAMP "J"	MEAS	SURED BY CA	AD	-1283.0				-143	6	-24	12.25	-49	-6		-57								
	MEAS	SURED BY CA	AD	-1213.0				-135	6	-23	12.25	-46	 -6		-54								
JCT FOR RAMP "K"	MFAS	SURED BY CA	AD	-1619.0				-180	6	-30	12.25	-61	 -7		-72								$-\ $
JCT FOR RAMP "L"		SURED BY CA		-1163.0				-129	6	-22	12.25	-44	-5		-52								
? "H"									0		12.25												
32.00 802+32.00 32.00 807+51.33	400.00 519.33	15 19	29 33	6000.0 9867.3	11600.0 17137.9	2.0	89 116	667 1097	6	116 189	9	174 284	52 76	967 1428	267 439	45 66	1.75 1.75	63 93					
o "J"									THE CONTROL OF THE CO							THE RESIDENCE OF THE PROPERTY	w					VIOLENTIA DE LA CONTRETA DEL CONTRETA DE LA CONTRETA DEL CONTRETA DE LA CONTRETA	
69.14 809+03.97	134.83	11	33	1483.1	4449.4	2.0	30	165	6	29	9	44	20	371	66	17	1.75	24					
03.97 810+53.97 53.97 814+50.00	150.00 396.03	15 19	33 33	2250.0 7524.6	4950.0 13069.0	2.0	34 88	250 836	6	44 144	9 9	66 217	22 58	413 1089	100 335	19 51	1.75 1.75	27 71					
50.00 815+00.00 00.00 817+77.71	50.00 277.71	15 11	29 25	750.0 3054.8	1450.0 6942.8	2.0 2.0	11 62	84 340	6	15 60	9	22 90	7 31	121 579	34 136	6 27	1.75 1.75	8 38				1.	
	£11,11	11	2 9	JUJT.0	UJTZ.O	۷.0	U Z	JTU	U	<u> </u>	3	3 U	JI	3/3	100	L /	1./0	JO	NATIONAL PROPERTY AND				
81.70 814+25.00	243.30	19	33	4622.7	8028.9	2.0	54	514	6	89	9	133	36	669	206	31	1.75	44					-
25.00 818+25.00	400.00	15	29	6000.0	11600.0	2.0	89	667	6	116	9	174	52	967	267	45	1.75	63	i	:			
25.00 819+57.31	132.31	11	25	1455.4	3307.7	2.0	30	162	6	29	9	43	15	276	65	13	1.75	18					
> <i>"L"</i> -68.78 808+00.00	431.22	11	25	4743.4	10780.5	2.0	96	527	6	93	0	140	48	899	211	42	1.75	58					
JULY DE LOUD TUULUU I	50.00	21	35 35	1050.0	1750.0	2.0	11	117	6	20	9	30	8	146	47	7	1.75	10	:				
00.00 808+50.00			15 I	15758.5	22875.3	1 2.0	113	1751	6	298	9	447	102	1907	701	89	1.75	124					╛
00.00 808+50.00	508.34	31	9 Z4	TOTAL			2405	17339	T	3053		5006	1111	27557	6942	1283		1445	783	246	180		$\prod I$

[0:\93197\DWGS\SR2E 05-30-2001 3:14PM

001 [O:\93197\DWGS\SR254\93197U5.DWG] NJW

STREET S.R. 254			NOT INCLUDING EMBANKMENT	EMBANKMENT
	SHEET	STATION TO STATION	CU. YDS.	CU. YDS.
	64	STA. 75+00 TO STA. 76+00	2	2
S.R. 254	65	STA. 76+00 TO STA. 78+00	275	11
S.R. 254	66	STA. 78+00 TO STA. 80+00	404	115
S.R. 254	67	STA. 80+00 TO STA. 81+00	292	239
S.R. 254	68	STA. 81+00 TO STA. 82+50	224	115
S.R. 254	69	STA. 82+50 TO STA. 84+00	426	149
S.R. 254	70	STA. 84+00 TO STA. 85+31.36	338	155
S.R. 254	71	STA. 85+31.36 TO STA. 88+84.89	281	158
S.R. 254	72	STA. 88+84.89 TO STA. 90+50	542	132
S.R. 254	73	STA. 90+50 TO STA. 92+50	455	73
S.R. 254	74	STA. 92+50 TO STA. 93+50	195	265
S.R. 254	75	STA. 93+50 TO STA. 94+50	247	308
S.R. 254	76	STA. 94+50 TO STA. 95+50	180	325
S.R. 254	77	STA. 95+50 TO STA. 97+00	311	80
S.R. 254	78	STA. 97+00 TO STA. 99+00	257	57
S.R. 254	79	STA. 99+00 TO STA. 101+00	321	10
S.R. 254	80	STA. 101+00 TO STA. 103+00	203	8
S.R. 254	81	STA. 103+00 TO STA. 105+00	274	6
RAMP "H"	82	STA. 798+00 TO STA. 799+00	41	4
RAMP "H"	83	STA. 799+00 TO STA. 800+50	94	30
RAMP "H"	84	STA. 800+50 TO STA. 802+00	106	45
RAMP "H"	85	STA. 802+00 TO STA. 804+00	164	83
RAMP "H"	86	STA. 804+00 TO STA. 806+00	155	98
RAMP "H"	87	STA. 806+00 TO STA. 807+97.33	169	82
RAMP "J"	88	STA. 807+50 TO STA. 808+50	59	8
RAMP "J"	89	STA. 808+50 TO STA. 810+00	81	20
RAMP "J"	90	STA. 810+00 TO STA. 811+50	136	193
RAMP "J"	91	STA. 811+50 TO STA. 813+00	179	322
RAMP "J"	92	STA. 813+00 TO STA. 815+00	185	429
RAMP "J"	93	STA. 815+00 TO STA. 817+00	99	25
RAMP "J"	94	STA. 817+00 TO STA. 818+00	46	4
RAMP "K"	95	STA. 811+50 TO STA. 812+50	108	12
RAMP "K"	96	STA. 812+50 TO STA. 814+00	115	33
RAMP "K"	97	STA. 814+00 TO STA. 815+50	105	34
RAMP "K" RAMP "K"	98	STA. 815+50 TO STA. 817+00	90	53
	99	STA. 817+00 TO STA. 818+50	78	25 7
RAMP "K" RAMP "L"	100	STA. 818+50 TO STA. 820+00	57	
RAMP L RAMP "L"	101	STA. 803+50 TO STA. 805+00	65	6
RAMP L RAMP "L"	102 103	STA. 805+00 TO STA. 806+50 STA. 806+50 TO STA. 808+00	70	10 5
RAMP L RAMP "L"	****	STA. 808+00 TO STA. 809+50	387	54 54
RAMP "L"	104 105	STA. 808+00 TO STA. 809+50 STA. 809+50 TO STA. 811+50	288	83
RAMP "L"	106	STA. 811+50 TO STA. 813+53.34	312	79
INAIVIE L	100	TOTAL		3952

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL NOTES:

<u>ITEM 870 - TOPSOIL</u> = (111 CU. YD. / 1,000 SQ. YD.) * (18,362 SQ. YD.) = 2,038 CU. YD.

 $\frac{|\text{TEM 870} - \text{SOIL ANALYSIS TEST}}{= (1 \text{ TEST } / \text{ 10,000 CU. YD.}) * (2,059 \text{ CU. YD.}) (MINIMUM = 2) = 2 \text{ EACH}}$

 $\frac{|\text{TEM 870} - \text{COMMERCIAL FERTILIZER}}{= (1 \text{ TON } / 7,410 \text{ SQ. YD.})* (18,549 \text{ SQ. YD}) = 3 \text{ TON}}$

 $\frac{\text{ITEM 870 - AGRICULTURAL LIME}}{\text{= (1 TON / 2,420 SQ. YD.)} * (18,549 SQ. YD.) = 8 TON}$

 $\frac{\text{ITEM 870 - WATER}}{\text{= (0.0027 M. GAL. / SQ. YD.) * (18,549 SQ. YD.) = 50 M. GAL.}$

			870
	SEEDIN	G & MULCHING SUB-SUMMARY	SEEDING &
STREET	SHEET	STATION TO STATION	SQ. YDS.
S.R. 254	64	STA. 75+00 TO STA. 76+00	2
S.R. 254	65	STA. 76+00 TO STA. 78+00	48
S.R. 254	66	STA. 78+00 TO STA. 80+00	75
S.R. 254	67	STA. 80+00 TO STA. 81+00	56
S.R. 254	68	STA. 81+00 TO STA. 82+50	36
S.R. 254	69	STA. 82+50 TO STA. 84+00	76
S.R. 254	70	STA. 84+00 TO STA. 85+31.36	76
S.R. 254	71	STA. 85+31.36 TO STA. 88+84.89	28
S.R. 254	72	STA. 88+84.89 TO STA. 90+50	79
S.R. 254	73	STA. 90+50 TO STA. 92+50	5
S.R. 254	74	STA. 92+50 TO STA. 93+50	50
S.R. 254	75	STA. 93+50 TO STA. 94+50	54
S.R. 254	76	STA. 94+50 TO STA. 95+50	48
S.R. 254	77	STA. 95+50 TO STA. 97+00	32
S.R. 254	78	STA. 97+00 TO STA. 99+00	4.
S.R. 254	79	STA. 99+00 TO STA. 101+00	24
S.R. 254	80	STA. 101+00 TO STA. 103+00	1
S.R. 254	81	STA. 103+00 TO STA. 105+00	19
RAMP "H"	82	STA. 798+00 TO STA. 799+00	1
RAMP "H"	83	STA. 799+00 TO STA. 800+50	3:
RAMP "H"	84	STA. 800+50 TO STA. 802+00	3.
RAMP "H"	85	STA. 802+00 TO STA. 804+00	5
RAMP "H"	86	STA. 804+00 TO STA. 806+00	4.
RAMP "H"	87	STA. 806+00 TO STA. 807+97.33	4
RAMP "J"	88	STA. 807+50 TO STA. 808+50	1
RAMP "J"	89	STA. 808+50 TO STA. 810+00	2
RAMP "J"	90	STA. 810+00 TO STA. 811+50	6
RAMP "J"	91	STA. 811+50 TO STA. 813+00	7
RAMP "J"	92	STA. 813+00 TO STA. 815+00	9(
RAMP "J"	93	STA. 815+00 TO STA. 817+00	4
RAMP "J"	94	STA. 817+00 TO STA. 818+00	1
RAMP "K"	95	STA. 811+50 TO STA. 812+50	1.
RAMP "K"	96	STA. 812+50 TO STA. 814+00	2
RAMP "K"	97	STA. 814+00 TO STA. 815+50	3.
RAMP "K"	98	STA. 815+50 TO STA. 817+00	3
RAMP "K"	99	STA, 817+00 TO STA, 818+50	3
RAMP "K"	100	STA. 818+50 TO STA. 820+00	2
RAMP "L"	101	STA. 803+50 TO STA. 805+00	2
1 (/ (tal)	102	STA. 805+00 TO STA. 806+50	42
1.7/2(A)1 F	103	STA. 806+50 TO STA. 808+00	2
1 (/ \ V V V V V V V V V	104	STA. 808+00 TO STA. 809+50	7.
RAMP "L"	105	STA. 809+50 TO STA. 811+50	7.
RAMP "L"	106	STA. 811+50 TO STA. 813+53.34	60
		TOTAL	18,36

\$\frac{1}{5}\$ \frac{1}{5}\$ \fra	798+32.00 798+50.00 798+75.00 799+00.00 799+25.00 799+50.00 799+75.00 800+00.00 800+25.00 800+50.00 801+25.00 801+50.00 801+75.00 801+75.00 802+00.00 802+25.00 802+32.00 802+50.00 802+50.00 802+50.00 803+50.00 803+50.00 803+75.00 803+75.00 804+00.00 804+75.00 804+75.00 804+75.00 804+75.00 805+50.00 805+75.00 806+25.00 806+25.00 806+25.00
United U	0.0000 0.0000
The color	666.62 666.43 666.20 665.96 665.77 665.76 665.69 665.78 665.88 665.88 665.96 666.15 666.37 666.63 666.97 667.36 667.78 668.22 668.37 668.22 668.37 669.27 669.27 669.27 669.27 669.27 669.84 670.37 670.88 671.36 671.83 672.31 672.79 673.32 673.32 673.84 674.84 674.84 675.29 675.73 676.18 676.68
## ## ## ## ## ## ## ## ## ## ## ## ##	-6.00 -6.00
Second S	-0.0819 -0.0787 -0.0806 -0.0812 -0.0844 -0.0825 -0.0825 -0.0794 -0.0787 -0.0787 -0.0787 -0.0787 -0.0750 -0.0712 -0.0731 -0.0713 -0.0663 -0.0663 -0.0663 -0.0600 -0.0513 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417
Second S	9NILSIX3 666.86 666.65 666.43 666.00 666.00 665.93 666.01 666.10 666.19 666.37 666.59 666.59 666.85 667.17 667.54 667.97 668.41 668.55 668.92 669.38 669.90 670.38 670.88 671.36 671.83 671.83 672.31 672.79 673.32 673.32 674.84 674.84 674.84 674.84 675.29 675.73 676.18 676.68
C	0.0819 0.0787 0.0806 0.0812 0.0844 0.0825 0.0825 0.0794 0.0787 0.0787 0.0787 0.0787 0.0781 0.0750 0.0712 0.0737 0.0731 0.0713 0.0663 0.0600 0.0513 0.0438 0.0344 0.0269 0.0219 0.0150 0.0150 0.0150 0.0150 0.0150 0.0150 0.0150 0.0150 0.0150
Company Comp	16.00 16.00
C	668.17 667.91 667.50 667.38 667.32 667.25 667.28 667.36 667.46 667.63 667.85 668.10 668.37 668.68 669.15 669.58 669.58 669.69 669.98 670.34 670.72 671.08 671.43 671.79 672.18 672.18 672.62 673.07 673.58 674.09 674.59 675.08 675.53 675.97 676.42 676.86
C	0.00 0.36 0.86 1.36 1.86 2.36 2.86 3.36 3.86 4.36 4.86 5.36 5.86 6.36 6.86 7.36 7.86 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8
SOLING S	16.00 16.36 16.86 17.36 17.86 18.36 18.86 19.36 19.86 20.36 20.86 21.36 21.86 22.36 22.36 22.86 23.36 23.36 23.86 24.00
A B A B	668.42 668.19 668.04 667.86 667.79 667.76 667.74 667.80 667.91 668.06 668.26 668.26 668.52 668.81 669.10 669.42 669.94 670.40 670.51 670.76 671.07 671.38 671.68 671.96 672.25 672.61 673.03 673.46 673.96 674.47 674.97 674.97 675.45 675.90 676.79
Part	0.0119 0.0087 0.0106 0.0112 0.0144 0.0125 0.0094 0.0087 0.0087 0.0087 0.0087 0.0087 0.0087 0.0012 0.0037 0.0031 0.0013 -0.0037 -0.0104
A	19.00 19.36 19.86 20.36 20.86 21.36 21.86 22.36 22.86 23.36 23.86 24.36 24.86 25.36 25.86 26.36 26.86 27.00
0.0700 0.0700	668.46 668.21 668.07 667.89 667.83 667.80 667.77 667.82 667.94 668.08 668.29 668.55 668.83 669.11 669.42 669.95 670.41 670.51 670.75 671.04 671.35 671.65 671.92 672.22 672.22 672.57 672.99 673.43 674.43 674.93 675.87 676.76
	0.0700 0.0700

P4.DWG] MJM

10:00AM 06-05-2001

809+50.00	809+75.00 -0.0552 673.72 -6.00 -0.0417 673.72 -0.0135 21.55 673.43 2.45 24.00 673.58 -0.0417 27.00 673.52 0.0282 809+75.00 -0.0551 672.86 -6.00 -0.0417 672.86 -0.0134 20.21 672.59 3.79 24.00 672.88 -0.0417 27.00 672.86 0.0285 810+0.00 -0.0525 679.99 -6.00 -0.0417 673.53 -0.0122 18.88 671.70 5.12 24.00 671.88 -0.0417 27.00 671.86 0.0295 810+0.00 -0.0525 670.99 -6.00 -0.0417 670.98 -0.0108 17.55 670.80 64.55 24.00 670.88 -0.0417 27.00 670.86 0.0309 810+55.00 -0.0516 670.06 -6.00 -0.0417 670.06 -0.0099 18.21 689.90 7.79 24.00 670.08 -0.0417 27.00 689.95 0.0318 810+75.00 -0.0448 680.15 -6.00 -0.0417 689.15 -0.0063 18.00 689.95 80.0 24.00 670.07 -0.0417 27.00 689.95 0.0318 811+95.00 -0.0348 687.31 -0.00336 687.35 -0.0031 18.00 687.35 8.00 24.00 688.35 -0.0417 27.00 688.30 0.0354 811+95.00 -0.0356 667.31 -6.00 -0.0417 682.55 -0.0031 16.00 688.20 8.00 24.00 688.45 -0.0417 27.00 688.30 0.0358 11+95.00 -0.0358 667.31 -6.00 -0.0417 682.55 -0.0031 16.00 686.54 8.00 24.00 686.45 -0.0417 27.00 686.30 0.0358 11+95.00 -0.0356 667.31 -6.00 -0.0417 682.55 -0.0031 16.00 686.54 8.00 24.00 686.45 -0.0417 27.00 686.59 0.0358 11+95.00 -0.0356 667.31 -6.00 -0.0417 682.55 -0.0031 16.00 686.54 8.00 24.00 686.45 -0.0417 27.00 686.59 0.0358 11+95.00 -0.0356 667.35 8.00 24.00 886.87 -0.0417 27.00 686.59 0.0358 11+95.00 -0.0356 667.35 8.00 24.00 886.87 -0.0417 27.00 686.59 0.0558 11+95.00 -0.0356 667.35 8.00 24.00 886.87 -0.0417 27.00 686.59 0.0558 11+95.00 -0.0356 667.35 8.00 24.00 886.87 -0.0417 27.00 686.59 0.0558 11+95.00 -0.0356 667.35 8.00 24.00 886.87 -0.0417 27.00 686.59 0.0558 11+95.00 -0.0356 667.35 8.00 0.000 866.54 8.00 0.00017 885.50 0.0000 865.25 8.00 24.00 866.54 8.00 0.0417 27.00 685.26 0.0657 812+25.00 -0.0066 663.53 -0.000 663.53 8.00 0.0000 865.45 8.00 0.00017 885.50 0.0000 865.86 80.00 0.00017 885.50 0.0000 865.86 80.00 0.00017 885.50 0.0000 865.86 80.00 0.0000 865.86 80.00 0.0000 865.86 80.00 0.0000 865.86 80.00 0.0000 865.86 80.00 0.0000 865.86 80.00 0.0000 865.86 0.0000 865.86 0.0000 0.0000 865.86 0.0000 865.87 80.00	899+30,00	STATION 808+50.00 808+75.00 809+00.00	SHOULDER SHOULDER GRADE GRADE BREAK	LEFT EDGE OF SHOULDER 676.75 676.07 ELEVATION	LEFT EDGE OF 9 9 9 0 0 0 0 FFSET	-0.0417 -0.0417 -0.0417 -0.0417	*EXISTING *EXISTING PROFILE GRADE 629.29 629.29 629.29	EXISTING PAVEMENT SLOPE SLOPE	OFFSET TO EXISTING RIGHT 60°+5 60°+5 60°+5 PAVEMENT	* EXISTING RIGHT * EXISTING RIGHT * EDGE OF PAVEMENT ELEVATION	00.00 00.00 00.00	OFFSET TO RIGHT EDGE OF 00.75 00.77 PROPOSED PAVEMENT	RIGHT EDGE OF PROPOSED PAVEMENT PAVEMENT ELEVATION	RIGHT 8HOULDER 5HOULDER 5LOPE SLOPE	OFFSET TO SUCCESSOR OFFSET TO SUCCESSOR SHOULDER	ELEVATION AT RIGHT AT RIGHT EDGE OF SHOULDER	OFFSET TO 000000 000000 81GHT EDGE OF SHOULDER
	815+75.00 0.0000 653.28 -6.00 -0.0775 653.49 0.0775 16.00 654.73 0.00 16.00 654.98 0.0075 19.00 655.00 0.0700 816+00.00 0.0000 653.01 -6.00 -0.0700 653.18 0.0700 16.00 654.30 0.00 16.00 654.55 0.0000 19.00 654.55 0.0700 816+25.00 0.0000 652.80 -6.00 -0.0606 652.91 0.0606 16.00 653.88 0.00 16.00 654.13 -0.0094 19.00 654.72 0.0700 816+50.00 0.0000 652.62 -6.00 -0.0525 652.68 0.0525 16.00 653.52 0.00 16.00 653.77 -0.0175 19.00 653.72 0.0700 816+50.00 0.0000 652.62 -6.00 -0.0431 652.51 0.0431 16.00 653.52 0.00 16.00 653.45 -0.0269 19.00 653.37 0.0700 817+00.00	815+75.00 0.0000 653.28 -6.00 -0.0775 653.49 0.0775 16.00 654.73 0.00 16.00 654.98 0.0075 19.00 655.00 0.0700 816+00.00 0.0000 653.01 -6.00 -0.0700 653.18 0.0700 16.00 654.30 0.00 16.00 654.55 0.0000 19.00 654.55 0.0700 816+25.00 0.0000 652.80 -6.00 -0.0606 652.91 0.0606 16.00 653.88 0.00 16.00 654.13 -0.0094 19.00 654.10 0.0700 816+50.00 0.0000 652.60 -6.00 -0.0525 652.68 0.0525 16.00 653.88 0.00 16.00 653.77 -0.0175 19.00 653.72 0.0700 816+50.00 0.0000 652.50 -6.00 -0.0431 652.51 0.0431 16.00 653.20 0.00 16.00 653.45 -0.0269 19.00 653.37 0.0700 817+00.00	809+50.00 809+75.00 810+00.00 810+25.00 810+50.00 810+75.00 811+00.00 811+25.00 811+75.00 812+00.00 812+50.00 812+75.00 812+75.00 813+00.00 813+25.00 813+50.00 813+50.00 813+50.00 814+00.00 814+50.00 814+50.00 815+00.00 815+25.00	-0.0552 -0.0551 -0.0539 -0.0525 -0.0516 -0.0480 -0.0448 -0.0386 -0.0317 -0.0248 -0.0167 -0.0098 -0.0036 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	673.72 672.86 671.93 670.99 670.06 669.15 668.25 667.31 666.38 665.46 664.54 663.63 662.72 661.75 660.78 659.83 659.83 657.97 657.18 656.44 655.76 655.18 654.65 654.17	-6.00 -6.00	-0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0418 -0.0544 -0.0544 -0.0612 -0.0700 -0.0794 -0.0813 -0.0806 -0.0825 -0.0800 -0.0781 -0.0775	673.72 672.86 671.93 670.99 670.06 669.15 668.25 667.31 666.38 665.46 664.54 663.63 662.72 661.78 660.86 659.95 659.95 659.03 658.20 657.42 656.67 656.00 655.41 654.87	-0.0135 -0.0134 -0.0122 -0.0108 -0.0099 -0.0063 -0.0031 0.0100 0.0169 0.0250 0.0319 0.0381 0.0463 0.0544 0.0612 0.0700 0.0794 0.0813 0.0806 0.0825 0.0800 0.0781 0.0775	21.55 20.21 18.88 17.55 16.21 16.00	673.43 672.59 671.70 670.80 669.90 669.95 668.20 667.36 666.54 665.73 664.94 664.14 663.33 662.52 661.73 660.93 660.15 659.47 658.72 657.96 657.32 656.69 656.12 655.62	2.45 3.79 5.12 6.45 7.79 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.0	24.00 26.00 26.00	673.65 672.79 671.89 670.98 670.07 669.25 668.43 667.64 666.87 666.12 665.39 664.65 663.89 663.14 662.42 661.67 660.96 660.36 659.62 658.23 657.26 656.37 655.87	-0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0319 -0.0381 -0.0319 -0.0237 -0.0156 -0.0088 -0.0000 0.0094 0.0113 0.0106 0.0125 0.0100 0.0081 0.0075	27.00 27.00	673.52 672.66 671.76 670.86 669.95 669.12 668.30 667.51 666.74 665.99 665.26 664.53 663.79 663.07 662.37 661.64 660.96 660.38 659.65 658.89 657.29 656.39 655.89	0.0282 0.0283 0.0295 0.0309 0.0318 0.0354 0.0386 0.0448 0.0517 0.0586 0.0667 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700

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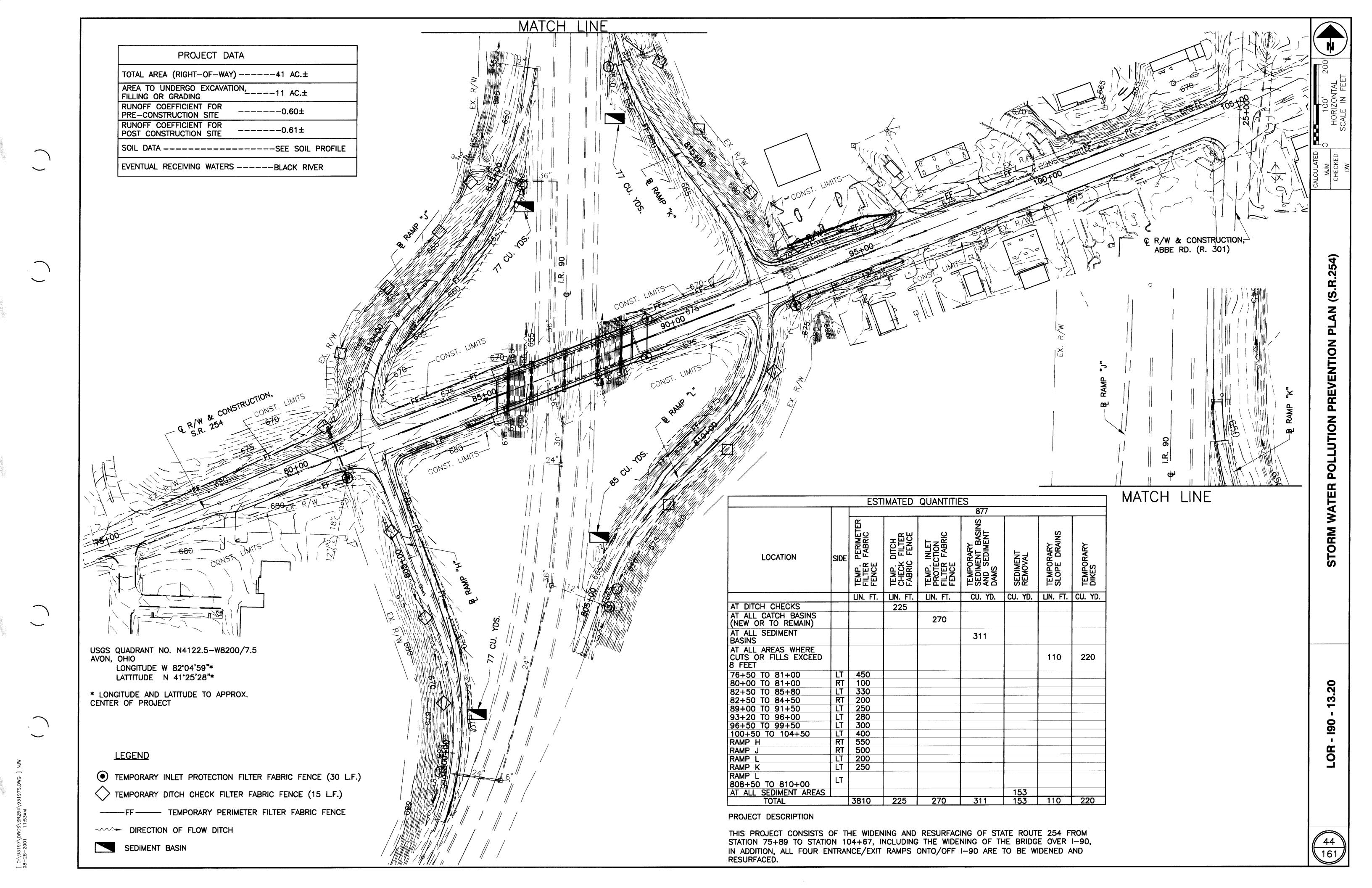
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Section Sect	0.0423 0.0417 0.0361 0.0298 0.0229 0.0148 0.0073 0.0000 0.0053 0.0548 0.0548 0.0548 0.0536 0.0523 0.0523 0.0523 0.0523 0.0523 0.0523 0.0523 0.0523	
11 12 13 14 15 15 15 15 15 15 15	667.42 667.34 667.05 666.73 666.41 665.83 665.57 665.36 665.18 665.02 665.01 664.70 664.67 665.14 665.26 665.45 665.72 666.06 666.24 666.52 666.96 667.41 667.84 667.84 668.28 668.73 669.19 669.64 670.06 670.43 670.81 671.22 671.58 671.94 672.31 672.31 672.31	
11 667.53	6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	
11 687.53 -19.00 -0.0417 687.56 -16.00 0.00 687.41 -16.00 -0.0006 687.42 0.00 0.00 687.57 177 687.45 -19.00 -0.0417 687.59 -16.00 0.00 687.34 -16.00 0.00 687.55 0.00 0.00 68	-0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0437 -0.0494 -0.0544 -0.0544 -0.0700 -0.0887 -0.0700 -0.0887 -0.0725 -0.0725 -0.0725 -0.0725 -0.0417	
11	903 LHOLD NO SEP	
	OFFSET TO 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00	
1	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
10	667.42 667.34 667.05 666.73 666.41 665.83 665.88 665.41 665.26 665.15 665.18 664.98 664.98 664.98 665.36 665.47 665.63 665.86 665.47 665.63 665.86 666.14 666.46 666.83 667.22 667.61 667.99 668.38 667.22 667.61 667.99 669.17 669.58 669.97 670.33 670.71 671.11 671.48 671.85 672.23 672.23 673.00 673.38	
	-0.0006 0.0000 0.0056 0.0119 0.0188 0.0269 0.0344 0.0437 0.0494 0.0544 0.0631 0.0700 0.0887 0.0938 0.0787 0.0725 0.0725 0.0644 0.0550 0.0475 0.0388 0.0319 0.0250 0.0119 0.0050 -0.0031 -0.0050 -0.00131 -0.0125 -0.0131 -0.0138 -0.0131 -0.0106 -0.0106 -0.0106 -0.0094 -0.0063 -0.0037	
Color Colo	-16.00 -16.00	
1	901 STANS NO	
11	0.00 12.00 12.00	
1	OLLSTAND CONTROL OF CO	
Start Star	667.66 667.59 667.39 667.17 666.96 666.53 666.53 666.45 666.55 666.65 666.73 666.87 666.96 667.04 667.14 667.27 667.04 667.14 667.27 667.6 668.17 668.36 668.56 668.76 668.76 668.76 669.16 669.16 669.16 669.16 669.16 669.16 669.16 669.16 669.16 669.16 669.33 669.62 669.91 670.23 670.59 670.59 671.36 671.77 672.18 672.57 672.99 673.95	
STATE STAT	-0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0417 -0.0356 -0.0263 -0.0266 -0.0156 -0.0069 0.0000 0.0187 0.00237 0.0087 0.0025 -0.0056 -0.0150 -0.0025 -0.0312 -0.0312 -0.0312 -0.0417	
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0.04 0.04 0.05 0.07 0.03	0.0411 0.0417 0.0473 0.0536 0.0605 0.0686 0.0700 0.0292 0.0286 0.0298 0.0311 0.0323 0.0354 0.0354 0.0354 0.0354 0.0354 0.0354 0.0354 0.0355 0.	
\$03+68.03 \$03+75.00 \$04+00.00 \$04+25.00 \$04+50.00 \$05+25.00 \$05+25.00 \$05+75.00 \$06+25.00 \$06+25.00 \$07+50.00 \$07+25.00 \$07+50.00 \$07+50.00 \$07+50.00 \$08+25.00 \$08+75.00 \$08+75.00 \$08+75.00 \$08+75.00 \$09+75.00 \$09+75.00 \$10+0.00 \$10+25.00 \$10+25.00 \$11+50.00 \$11+75.00 \$11+75.00 \$11+75.00 \$12+75.00 \$12+75.00 \$12+75.00 \$12+75.00 \$13+00.00	803+68.03 803+75.00 804+00.00 804+25.00 804+50.00 805+00.00 805+25.00 805+50.00 805+75.00 806+00.00 806+25.00 806+50.00 807+00.00 807+25.00 807+50.00 807+50.00 807+75.00 808+00.00 808+50.00 808+50.00 808+50.00 809+00.00 809+75.00 809+75.00 809+75.00 810+25.00 810+25.00 810+25.00 811+50.00 811+50.00 811+75.00 812+00.00 812+25.00 812+75.00	

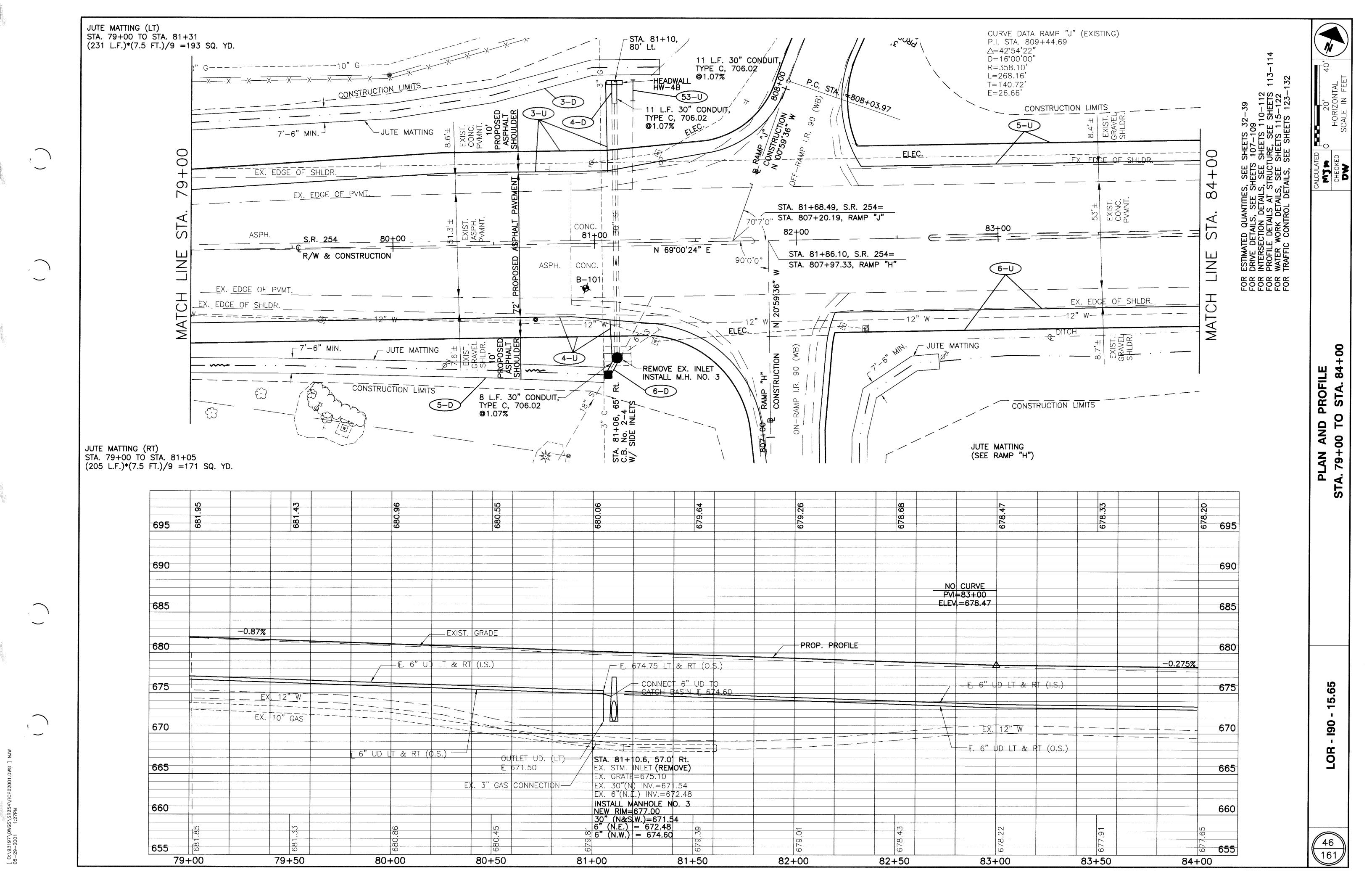
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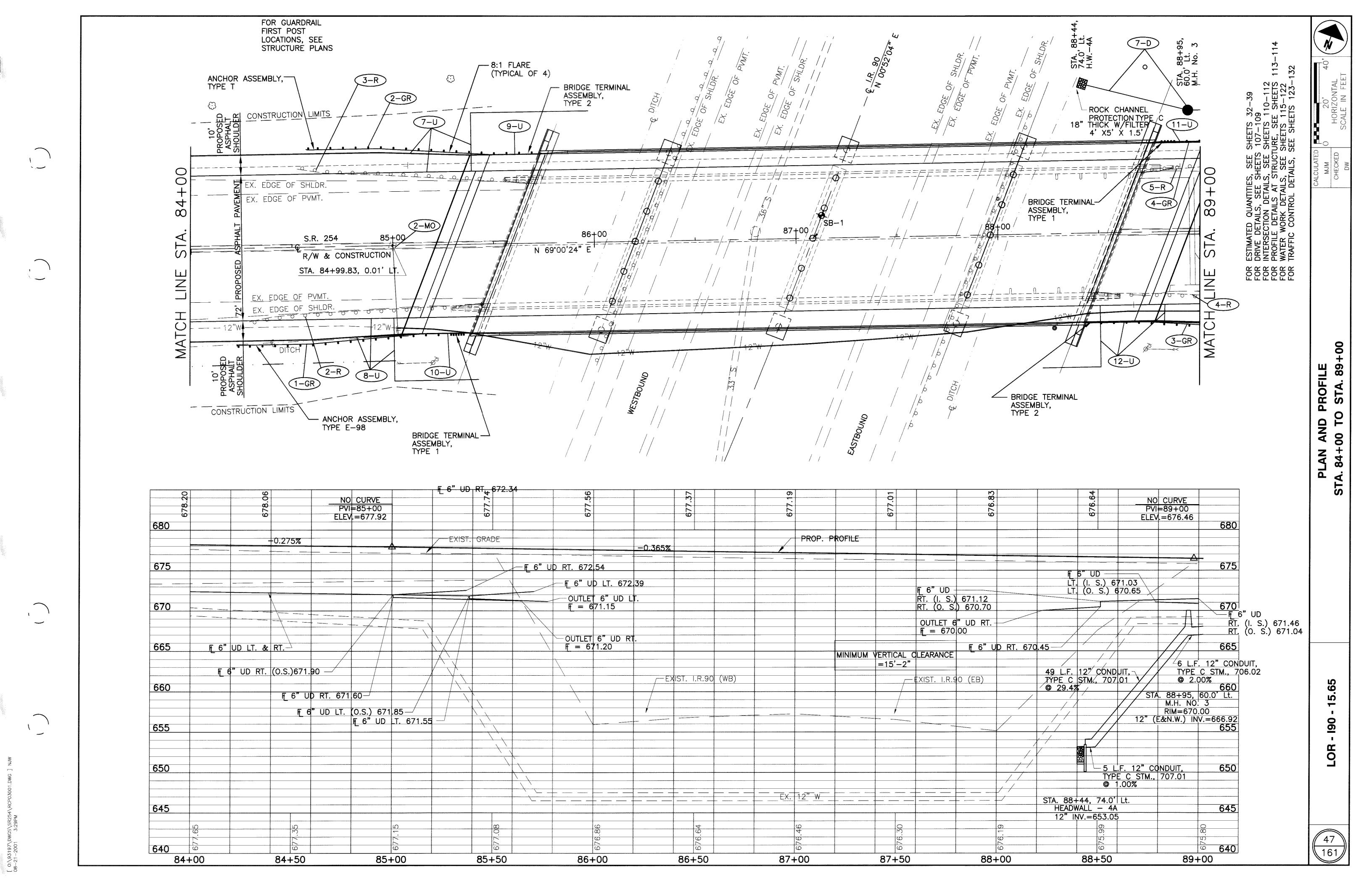
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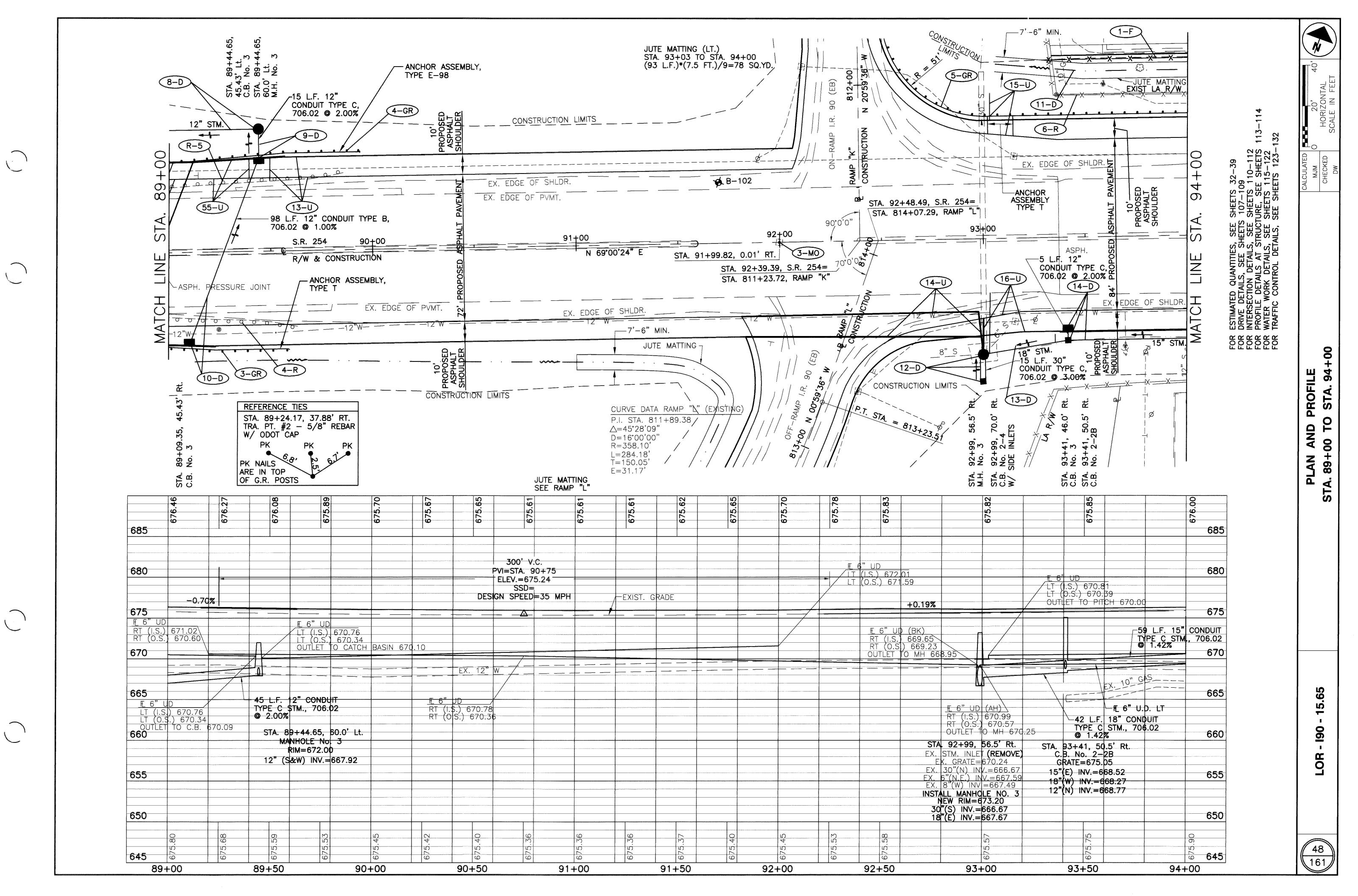
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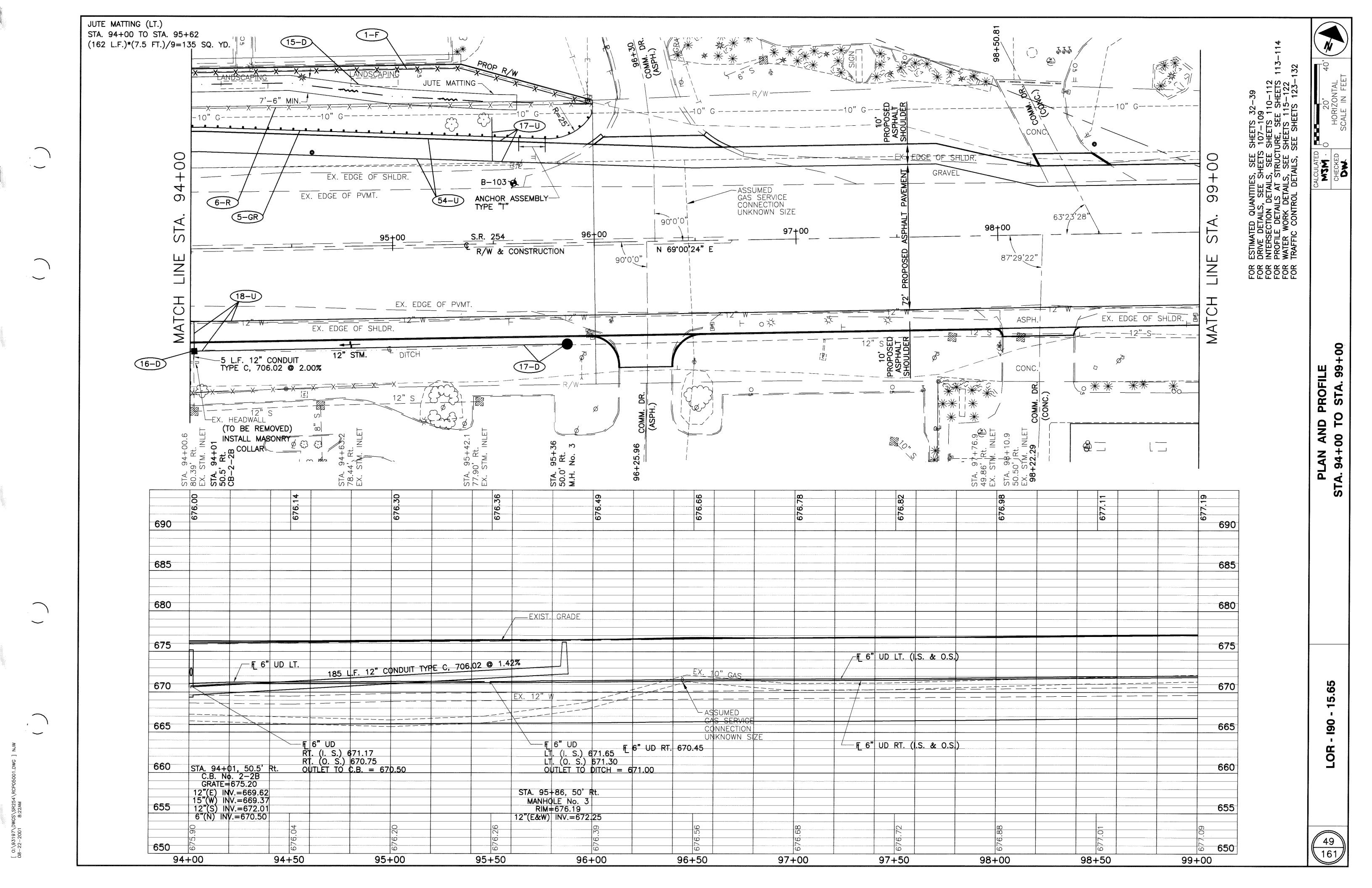
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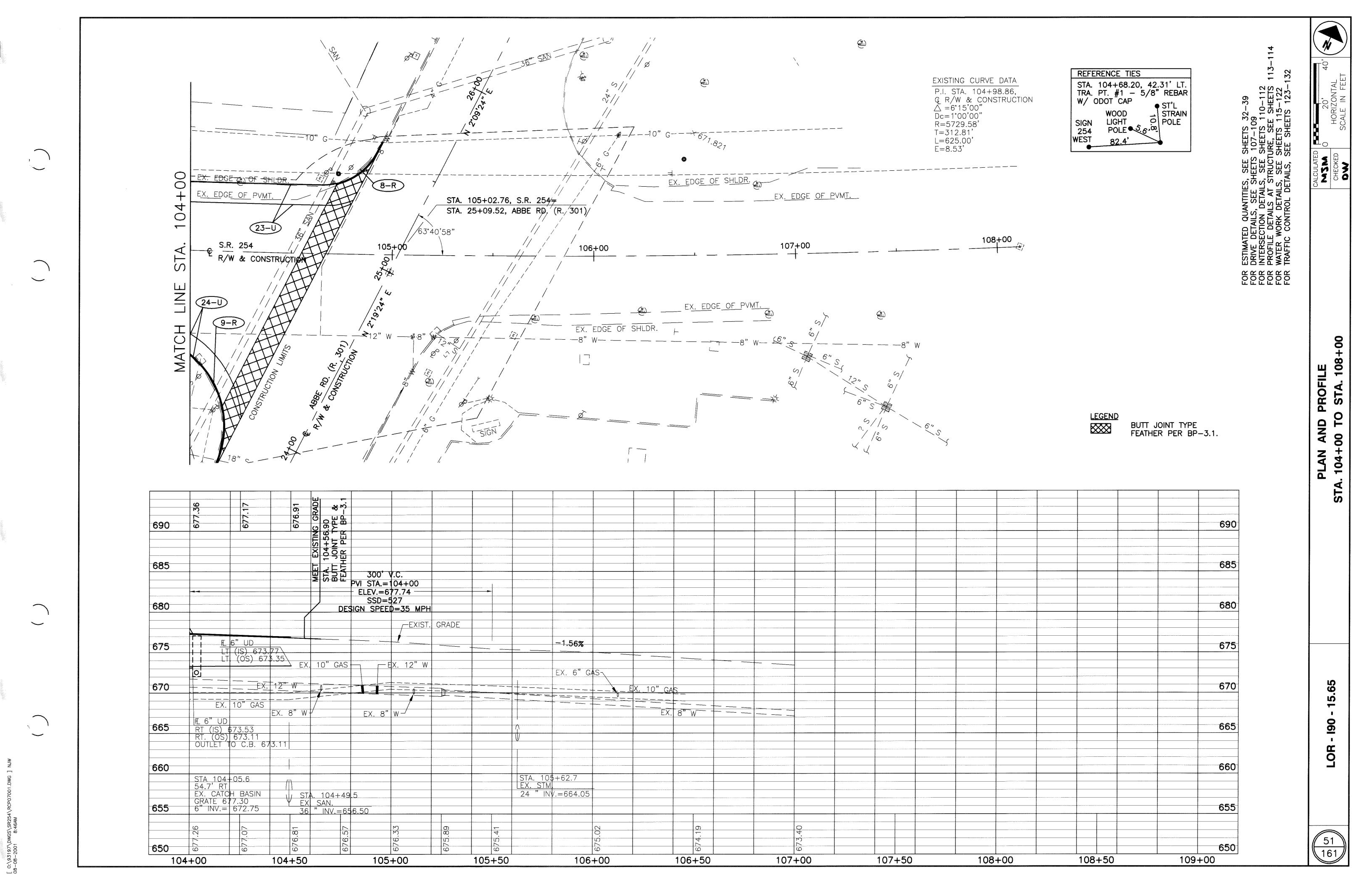


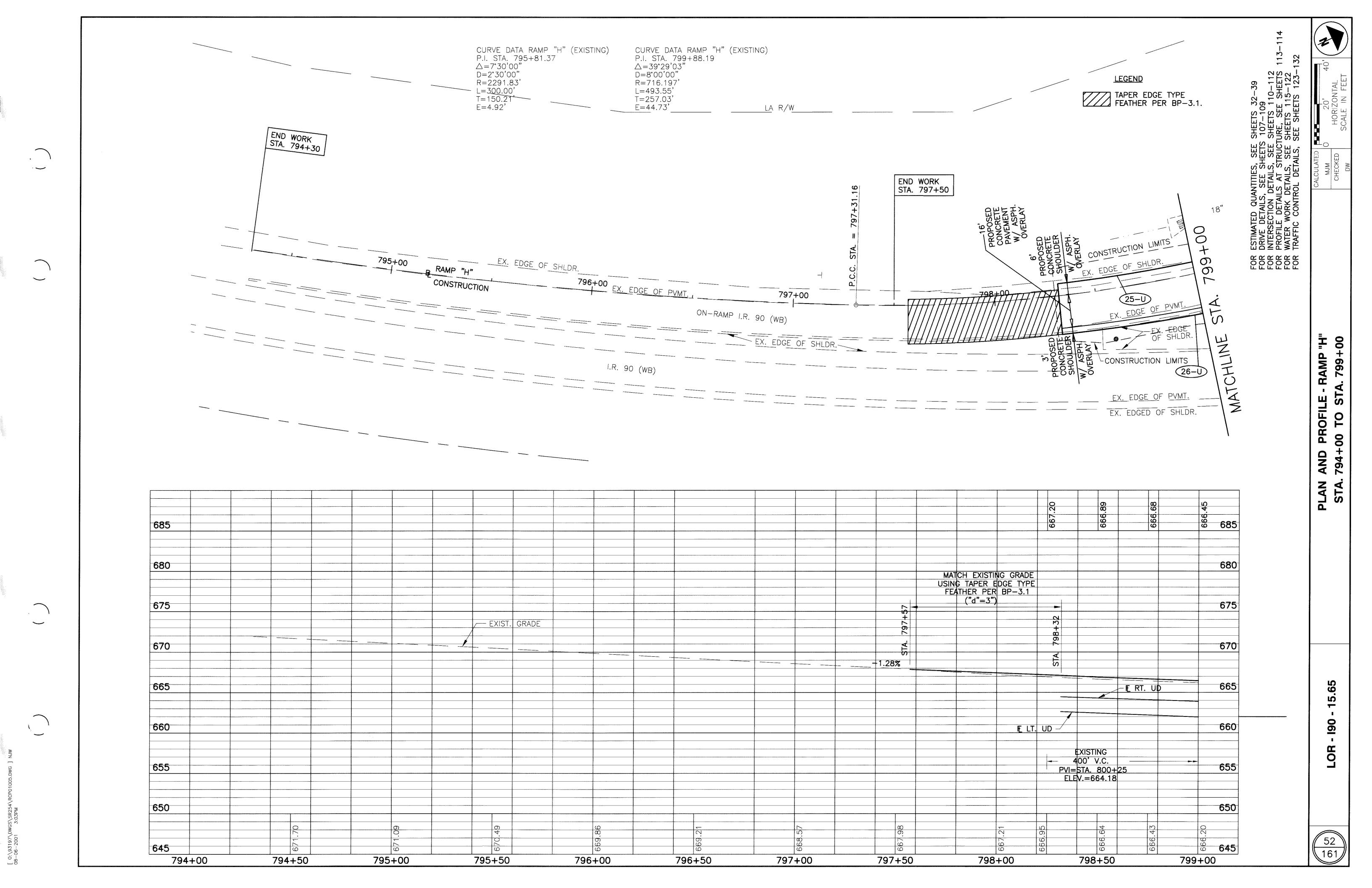




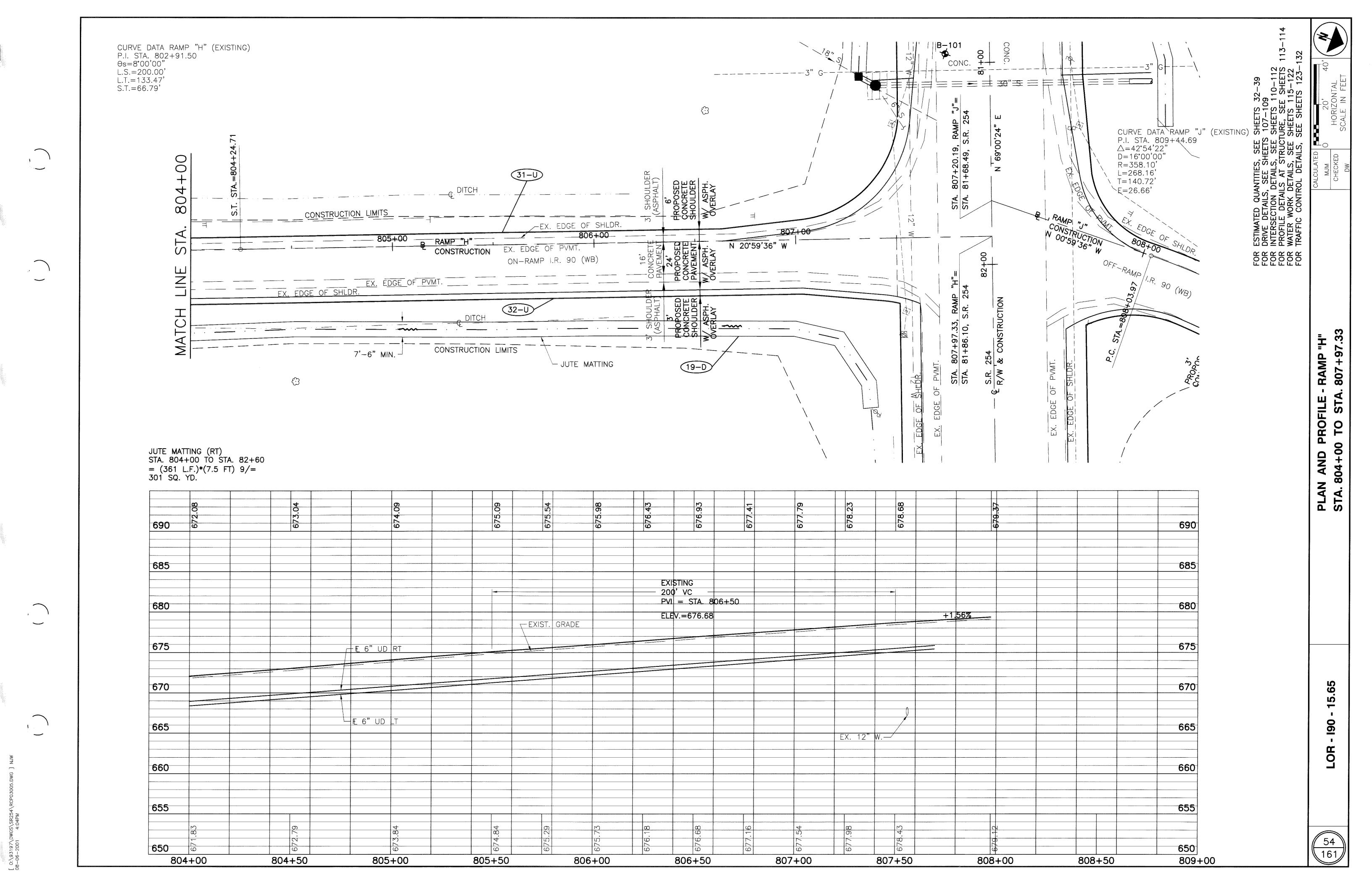
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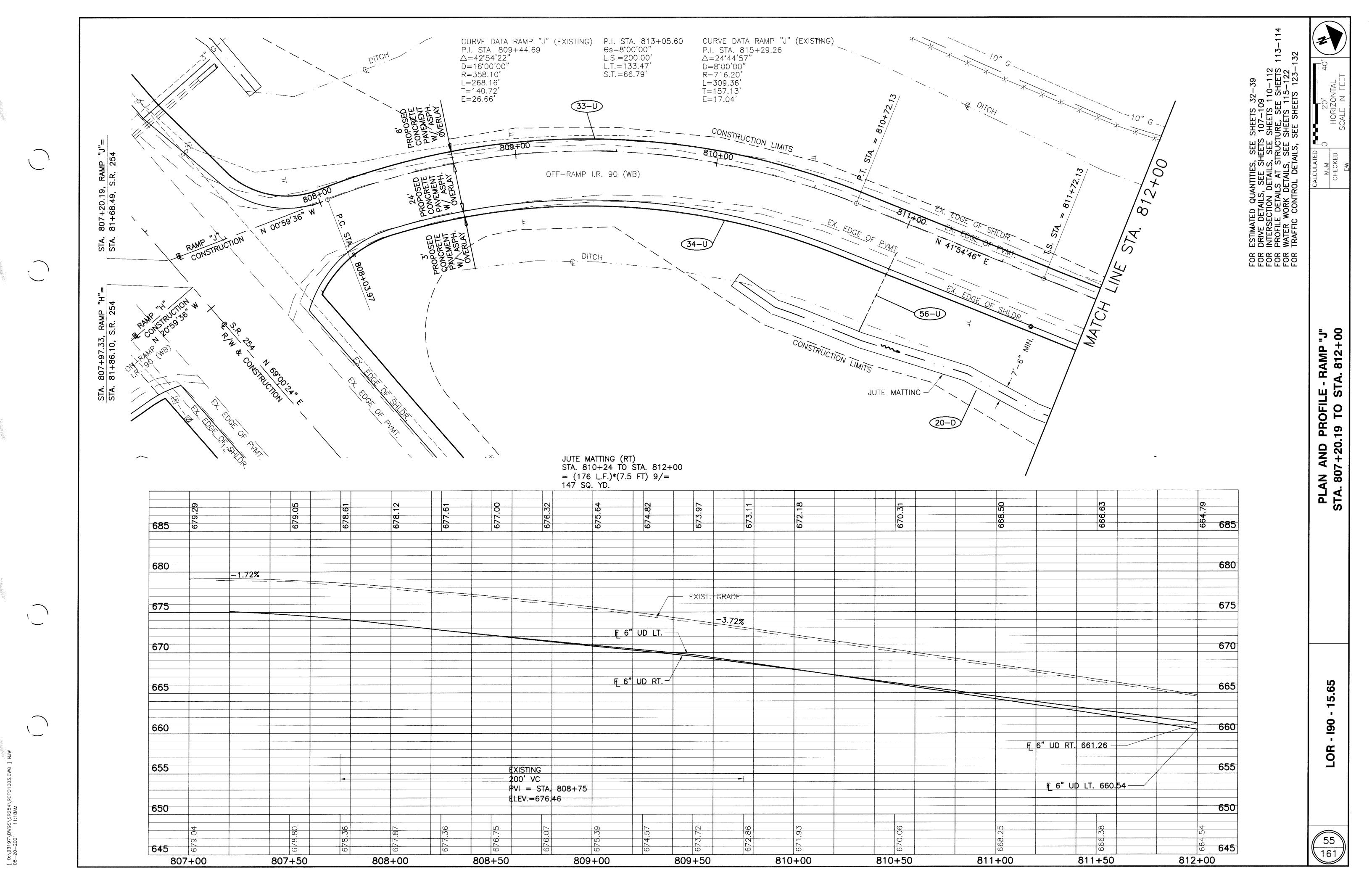


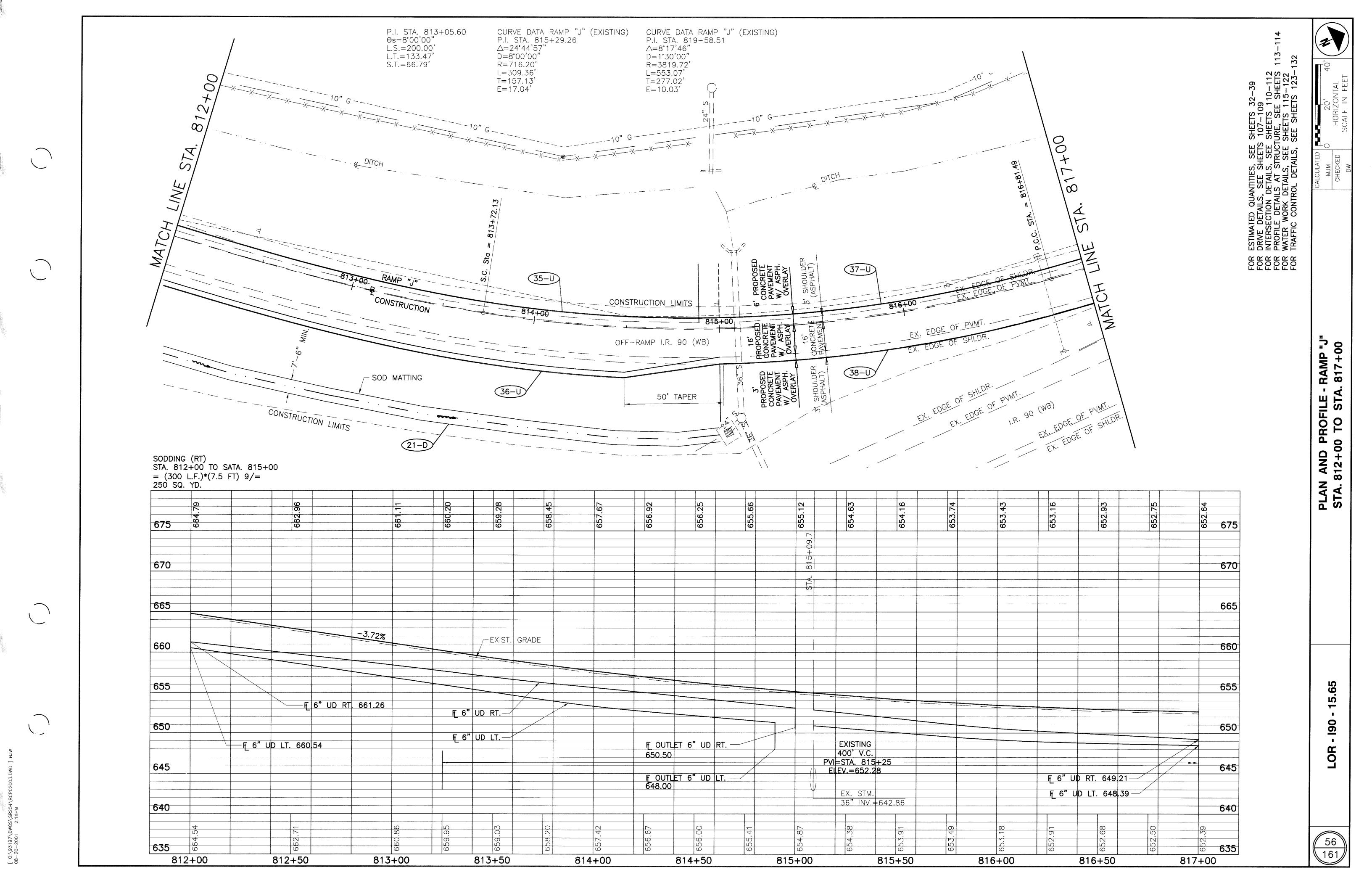


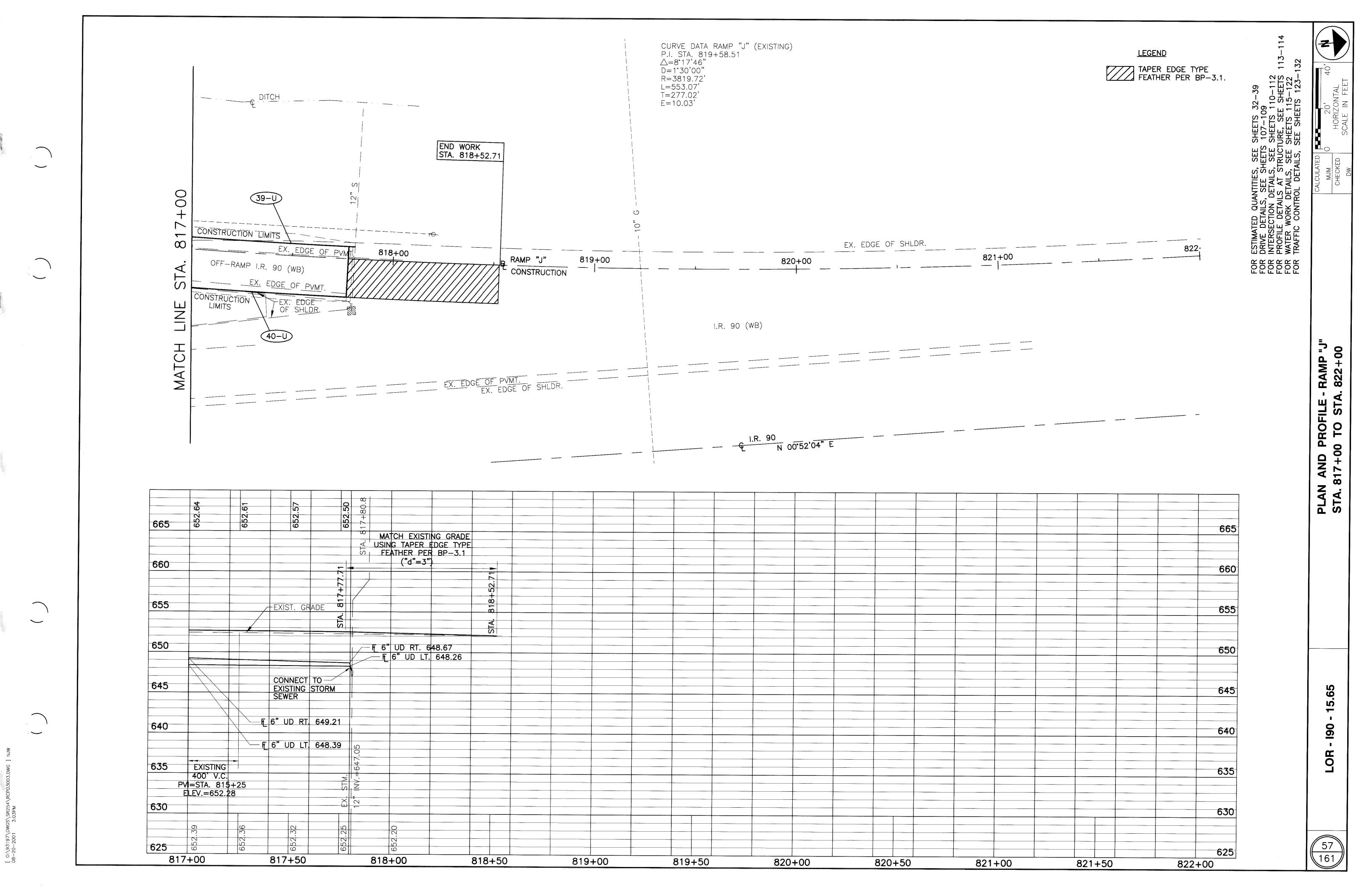


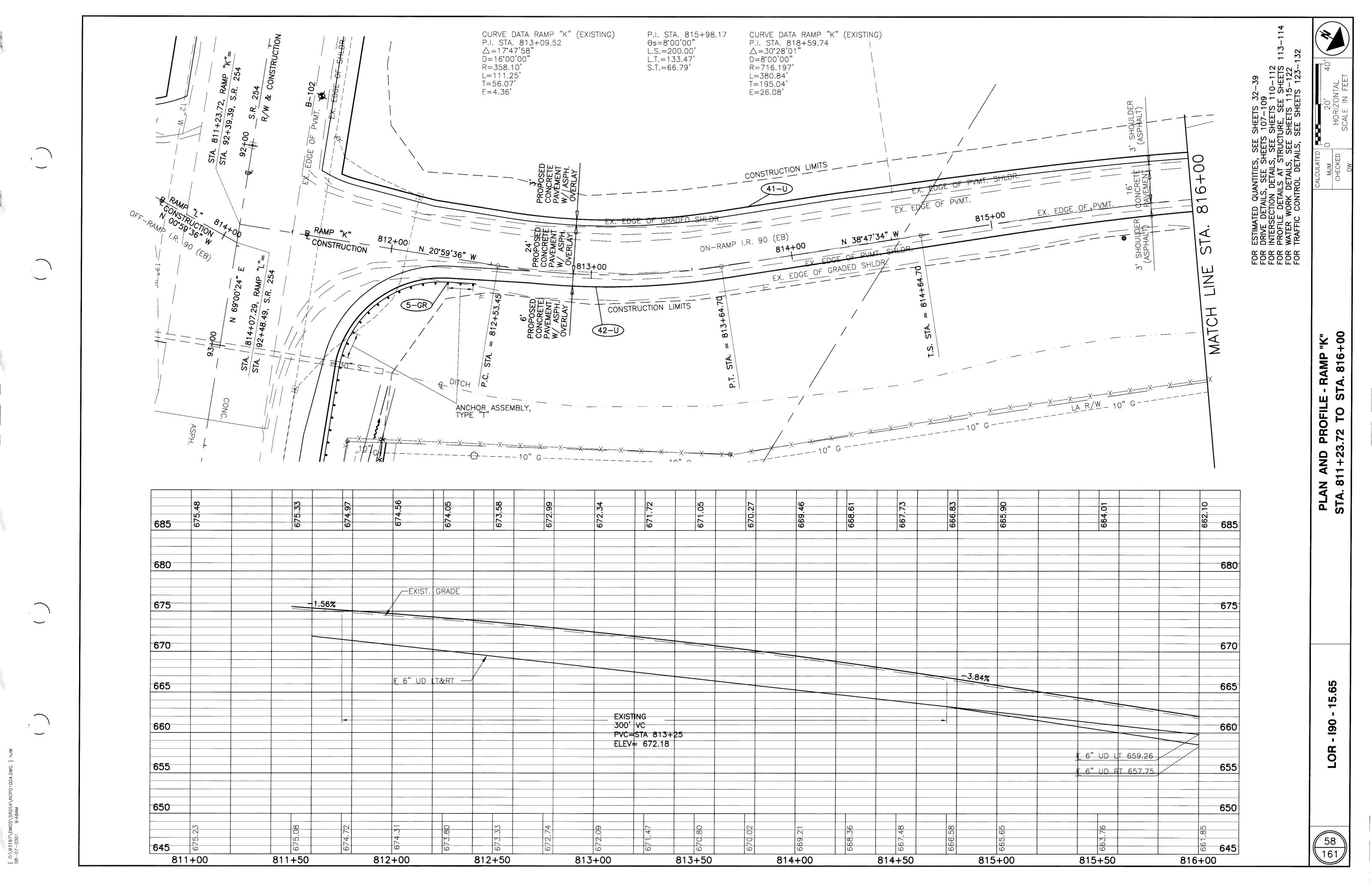
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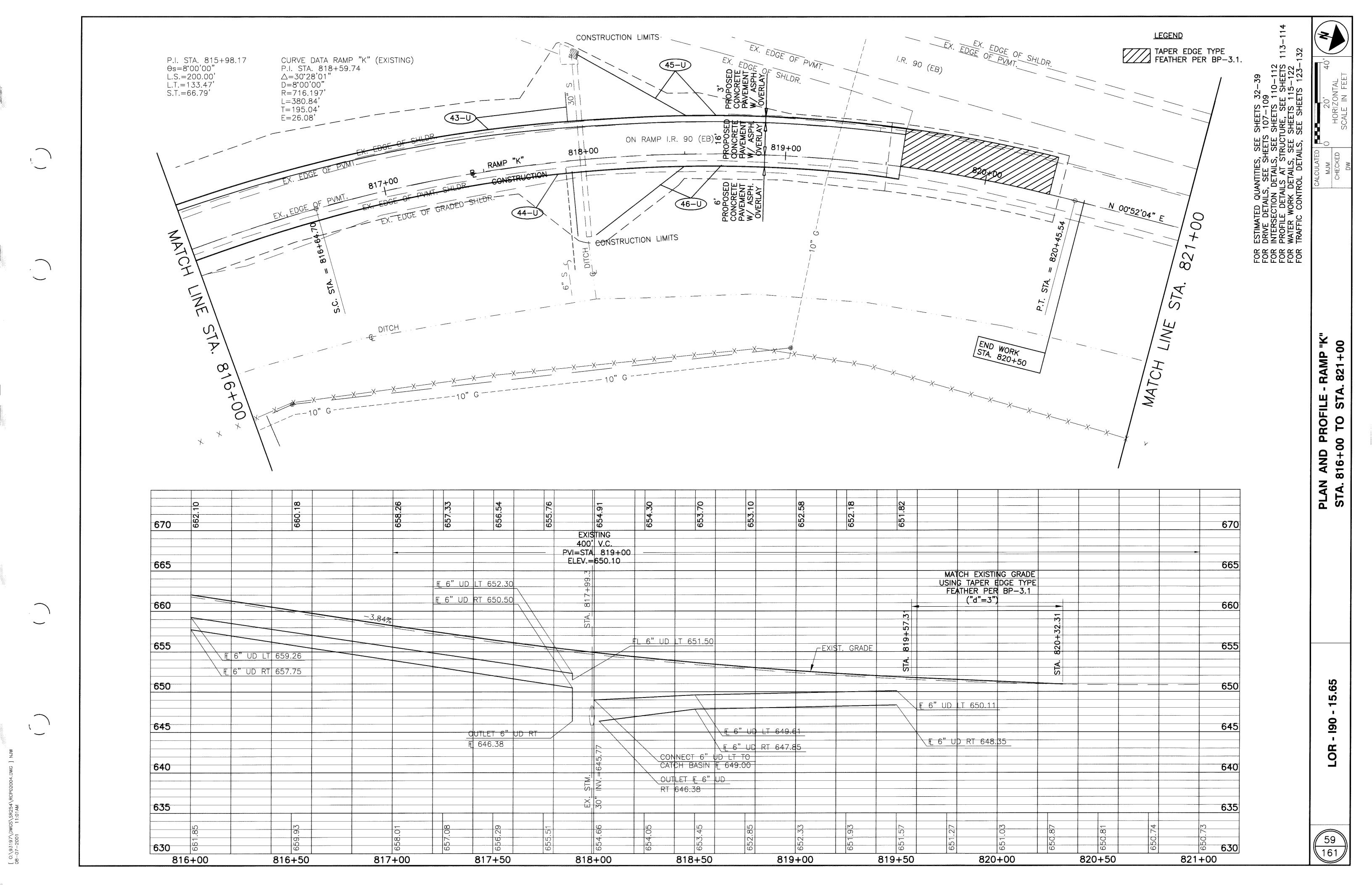








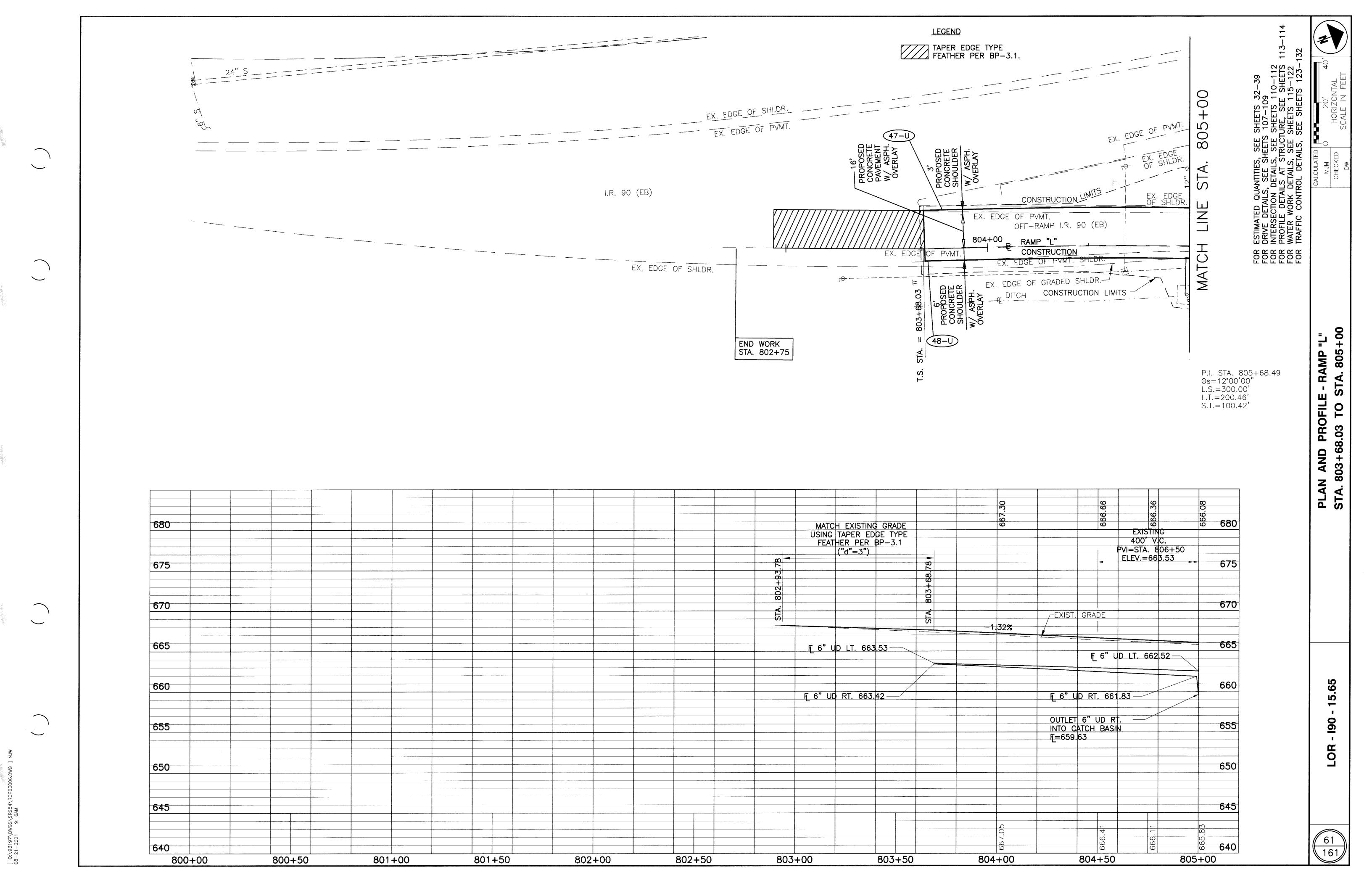


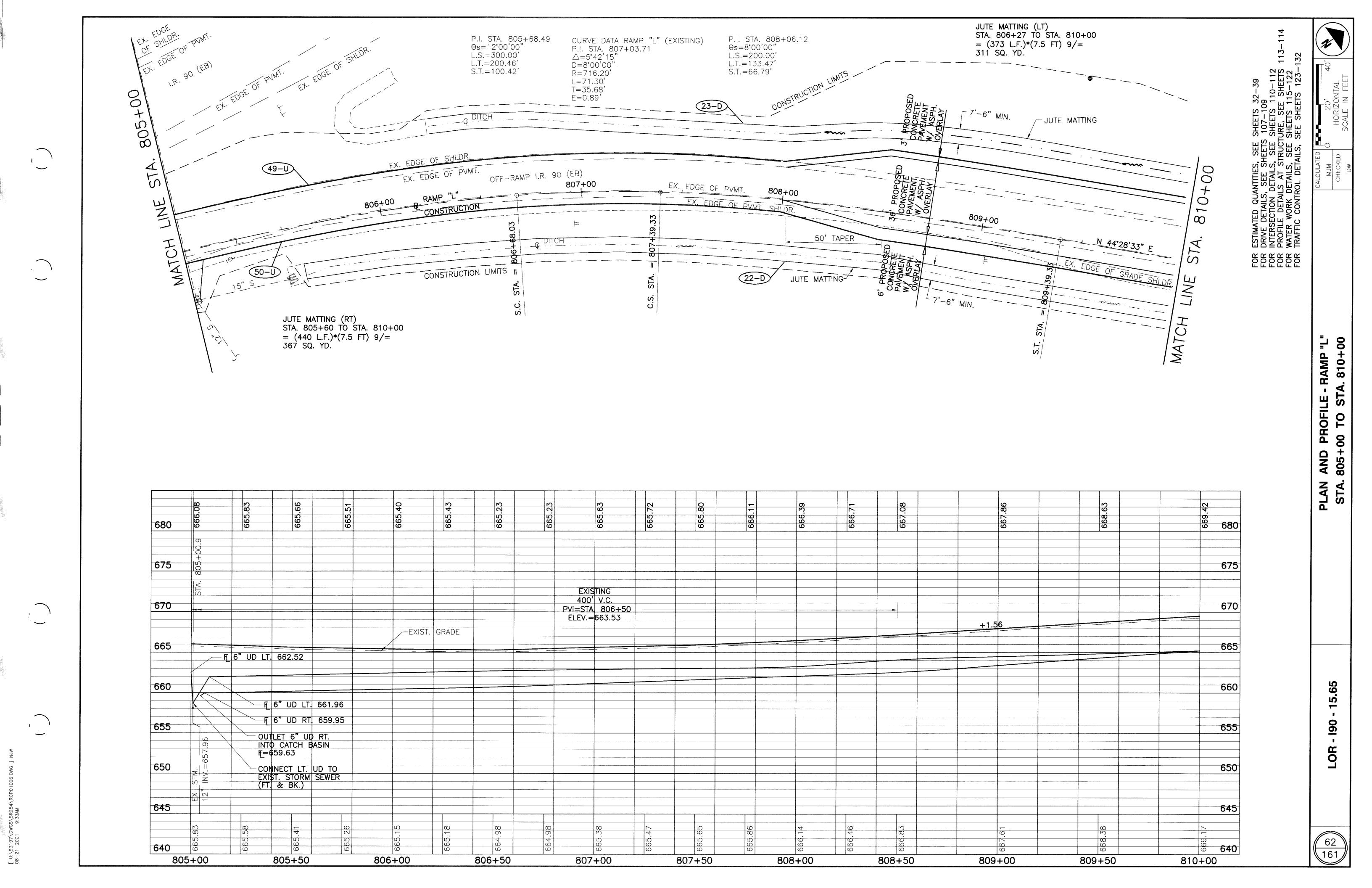


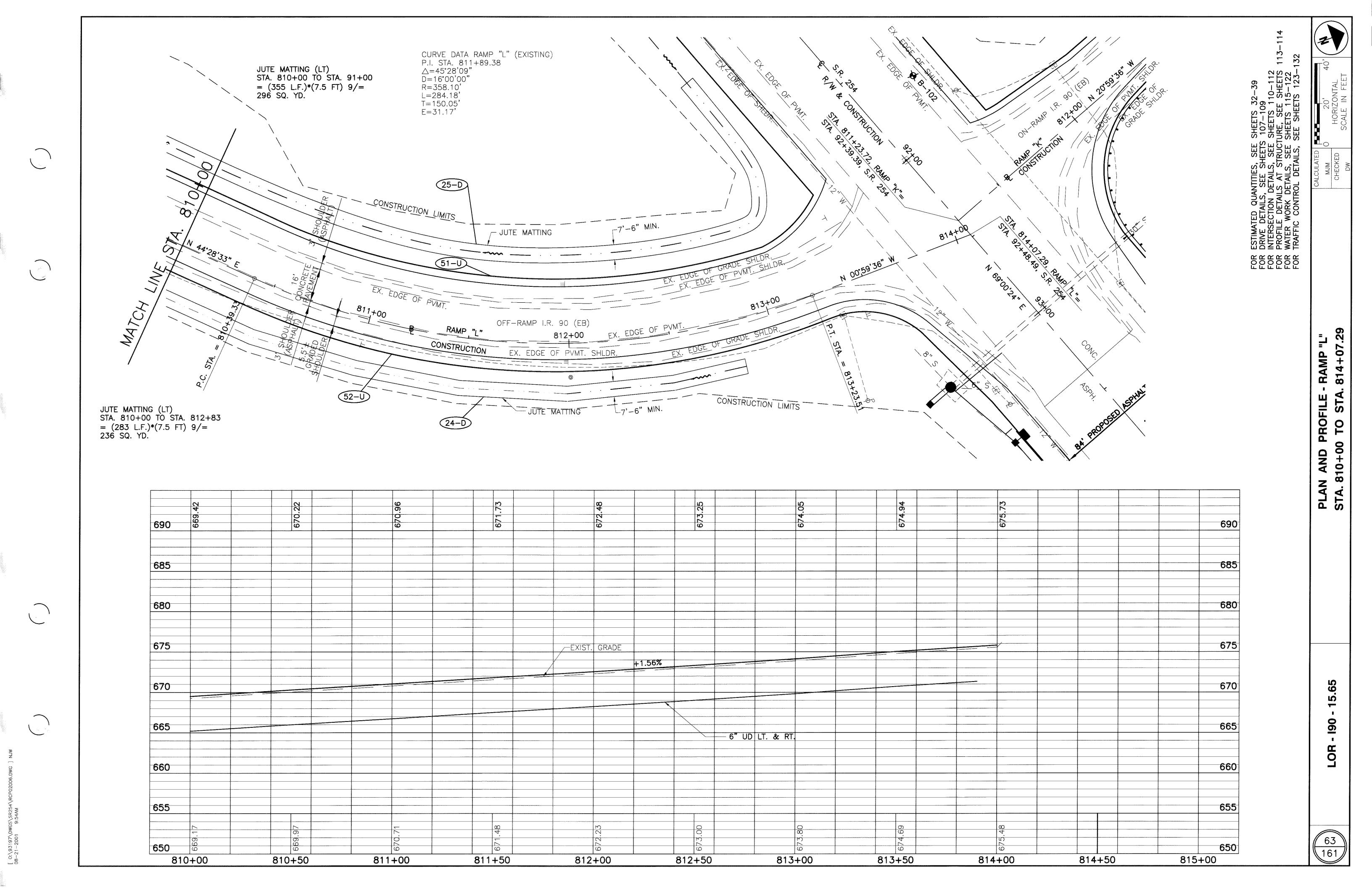
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PLAN AND PROFILE -STA. 821+00 TO STA.

<u> 190</u> LOR

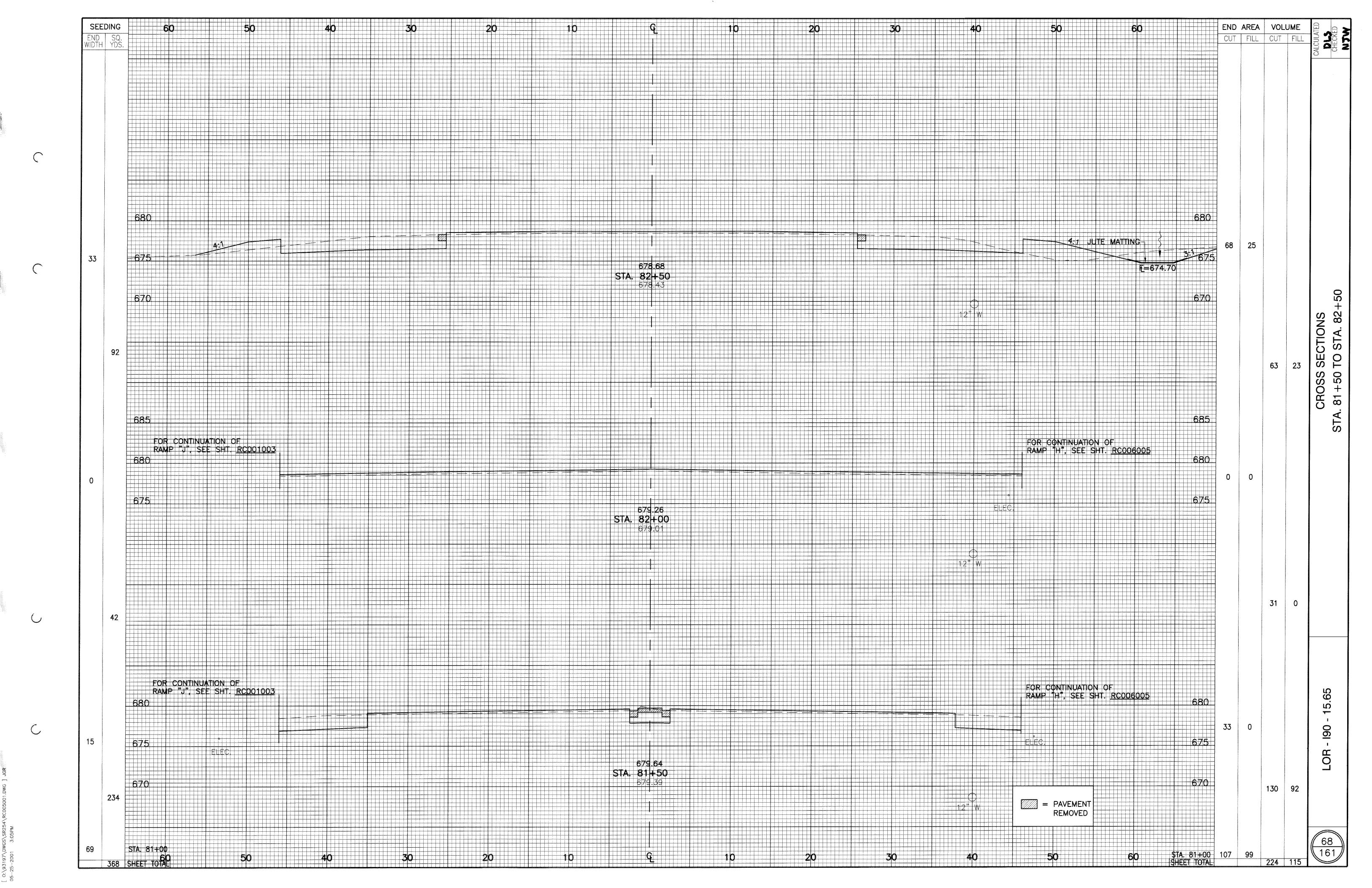


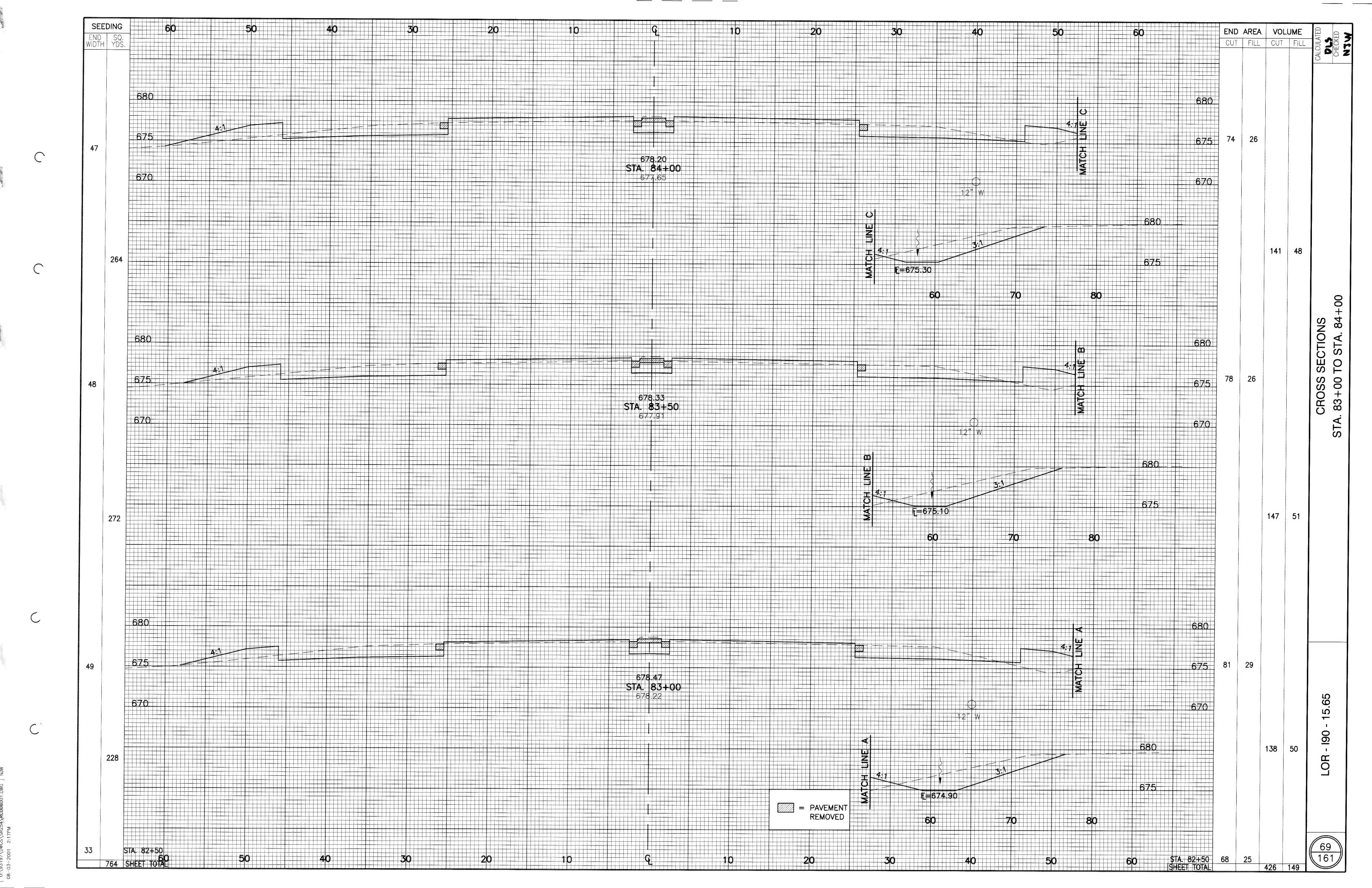


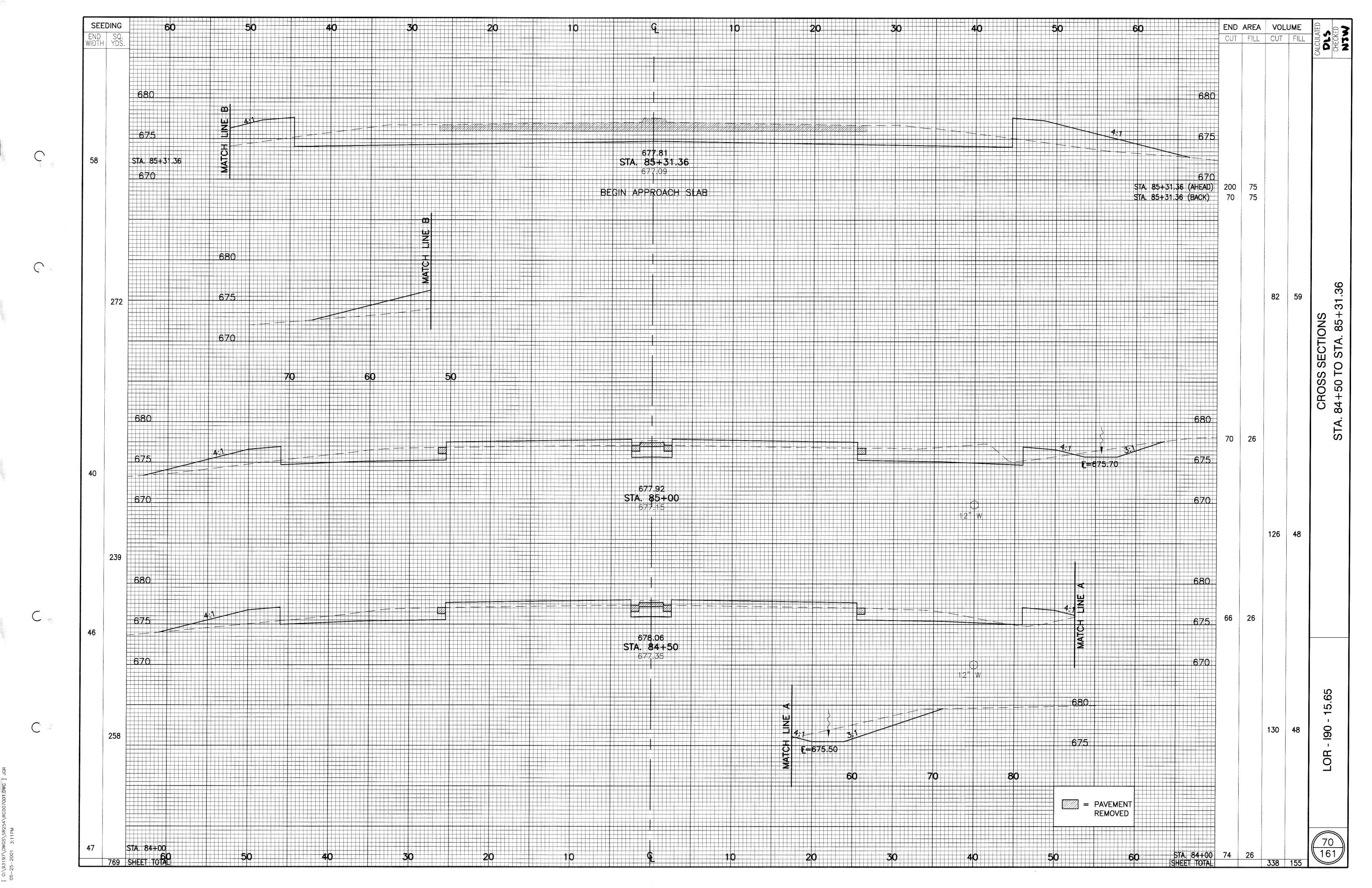


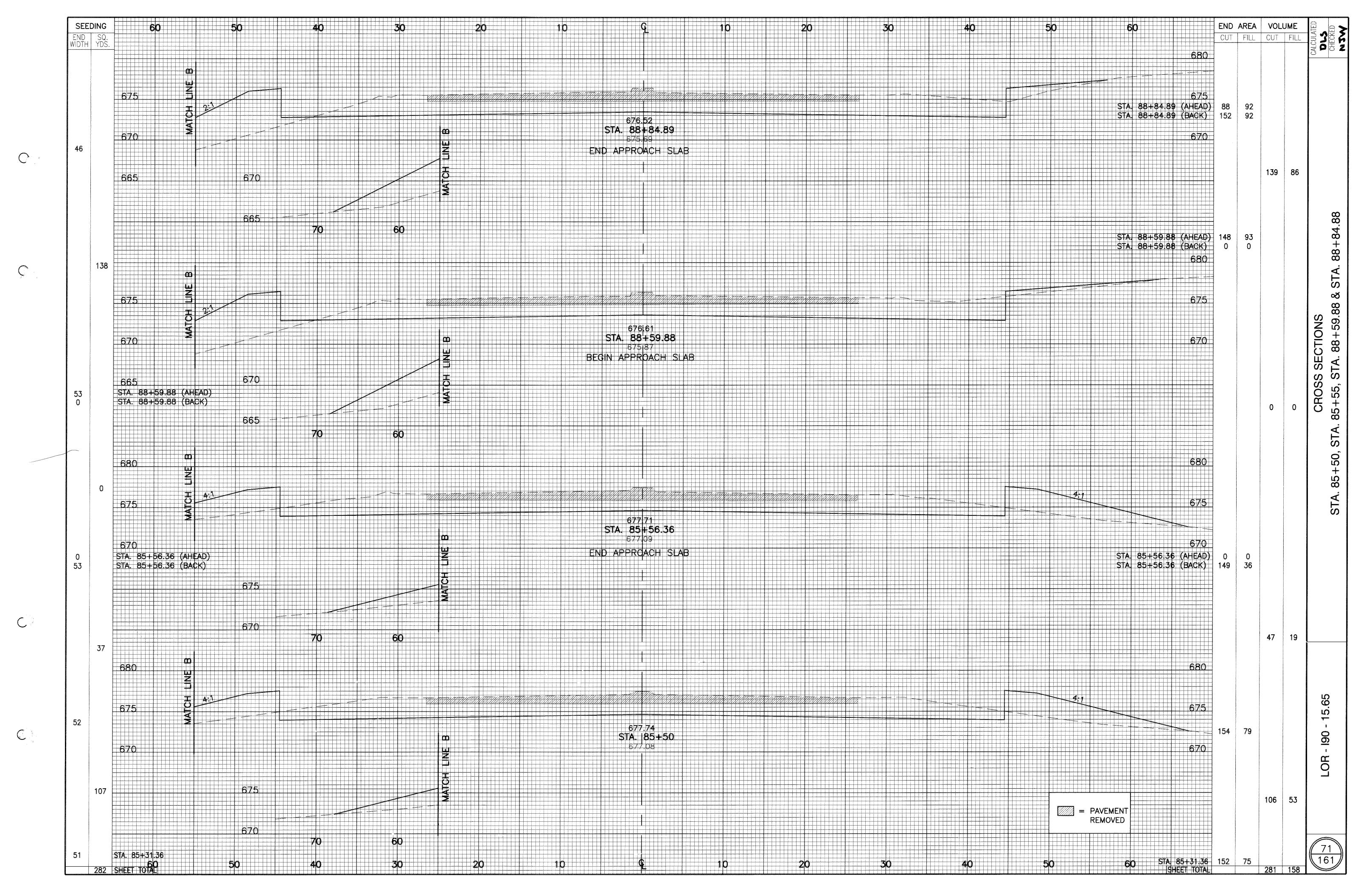
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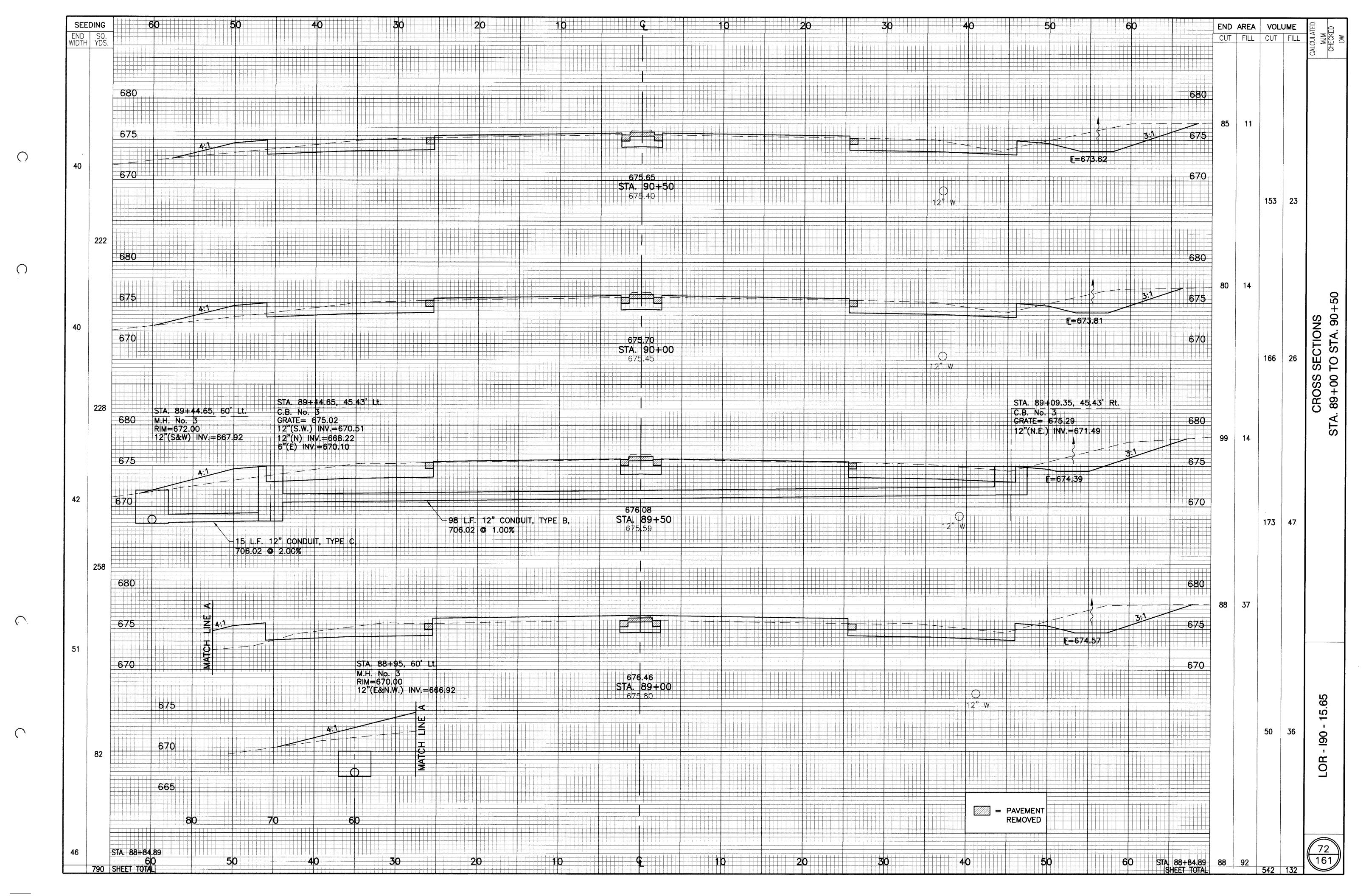


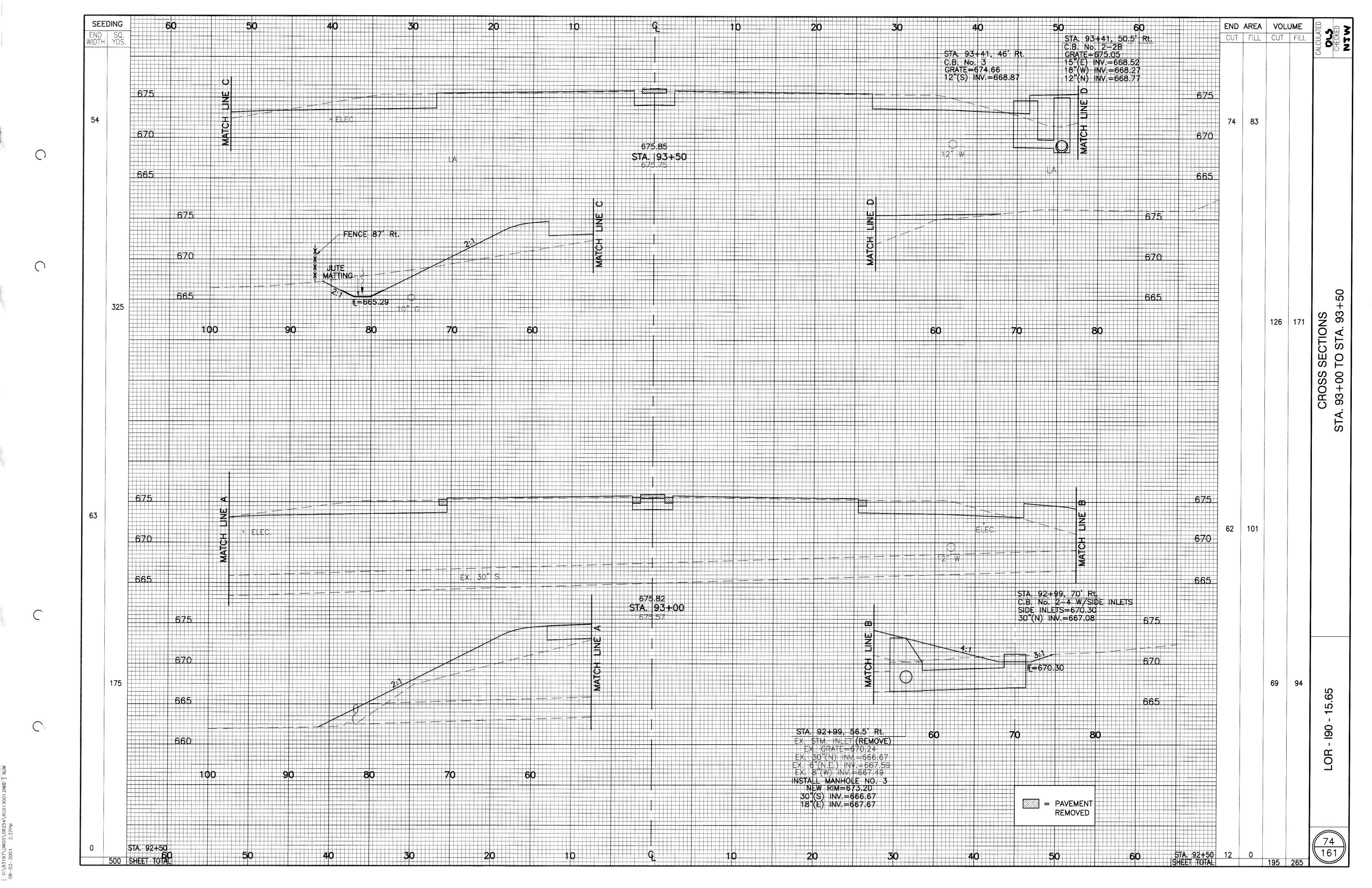


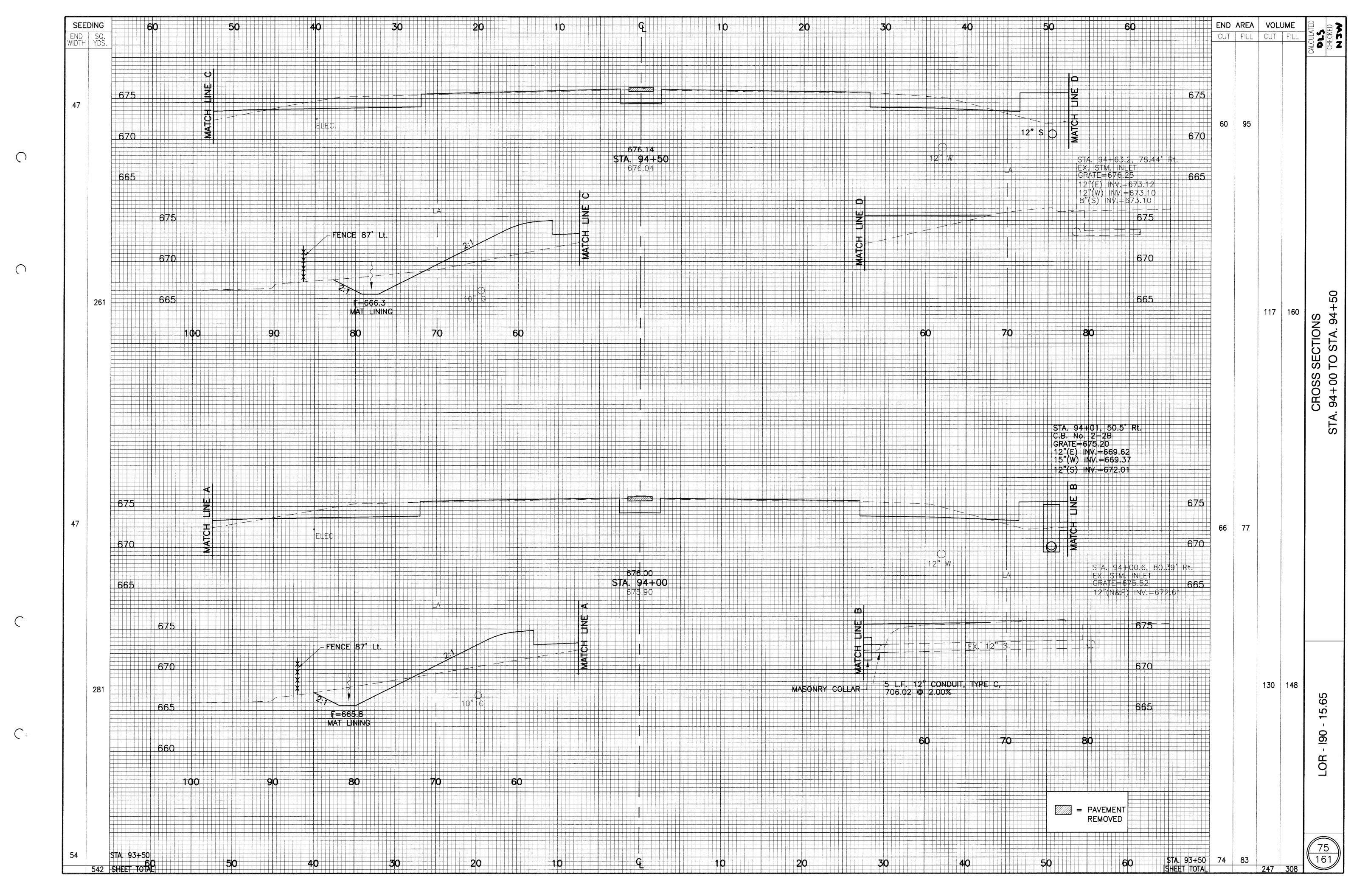


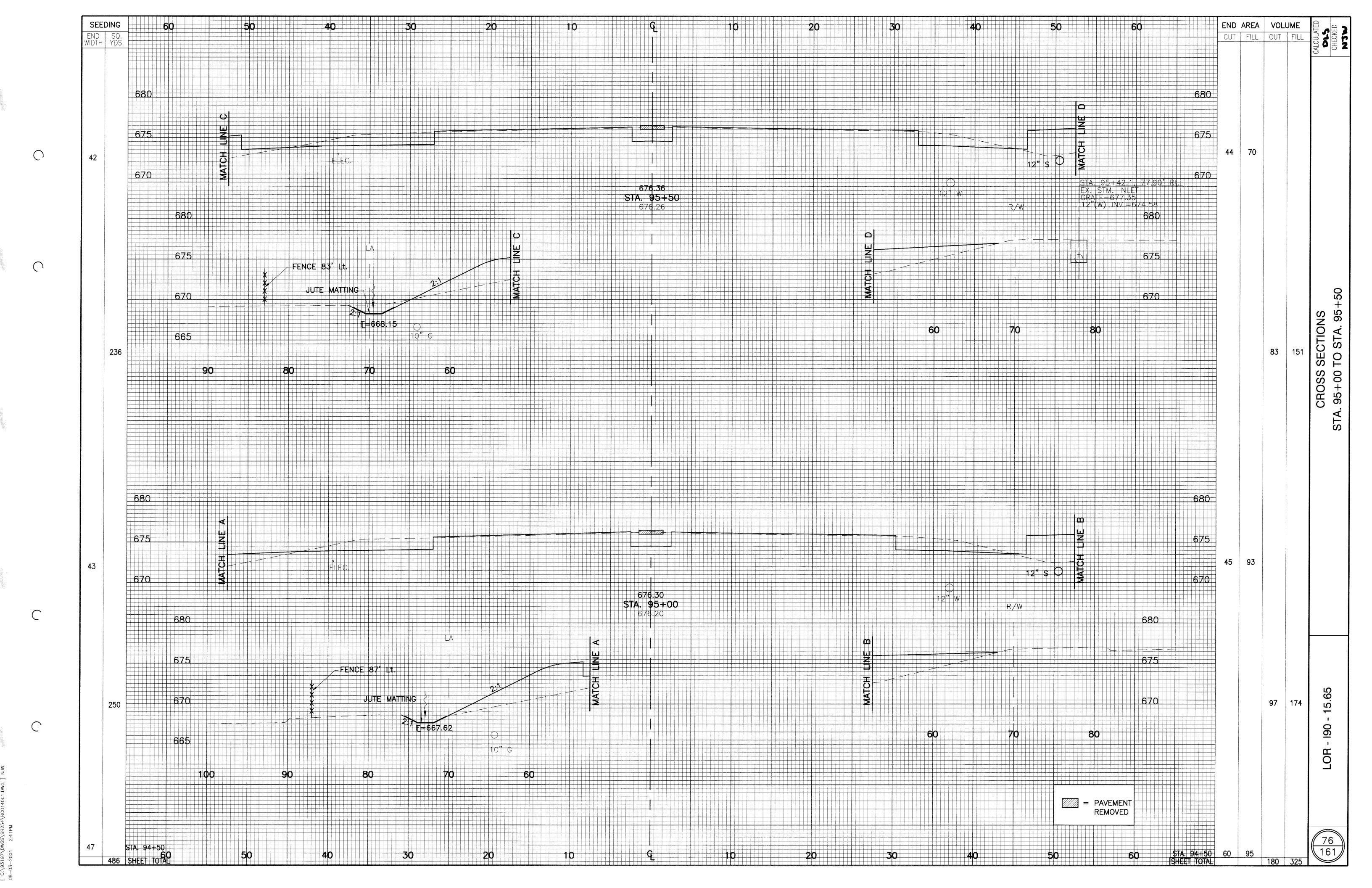


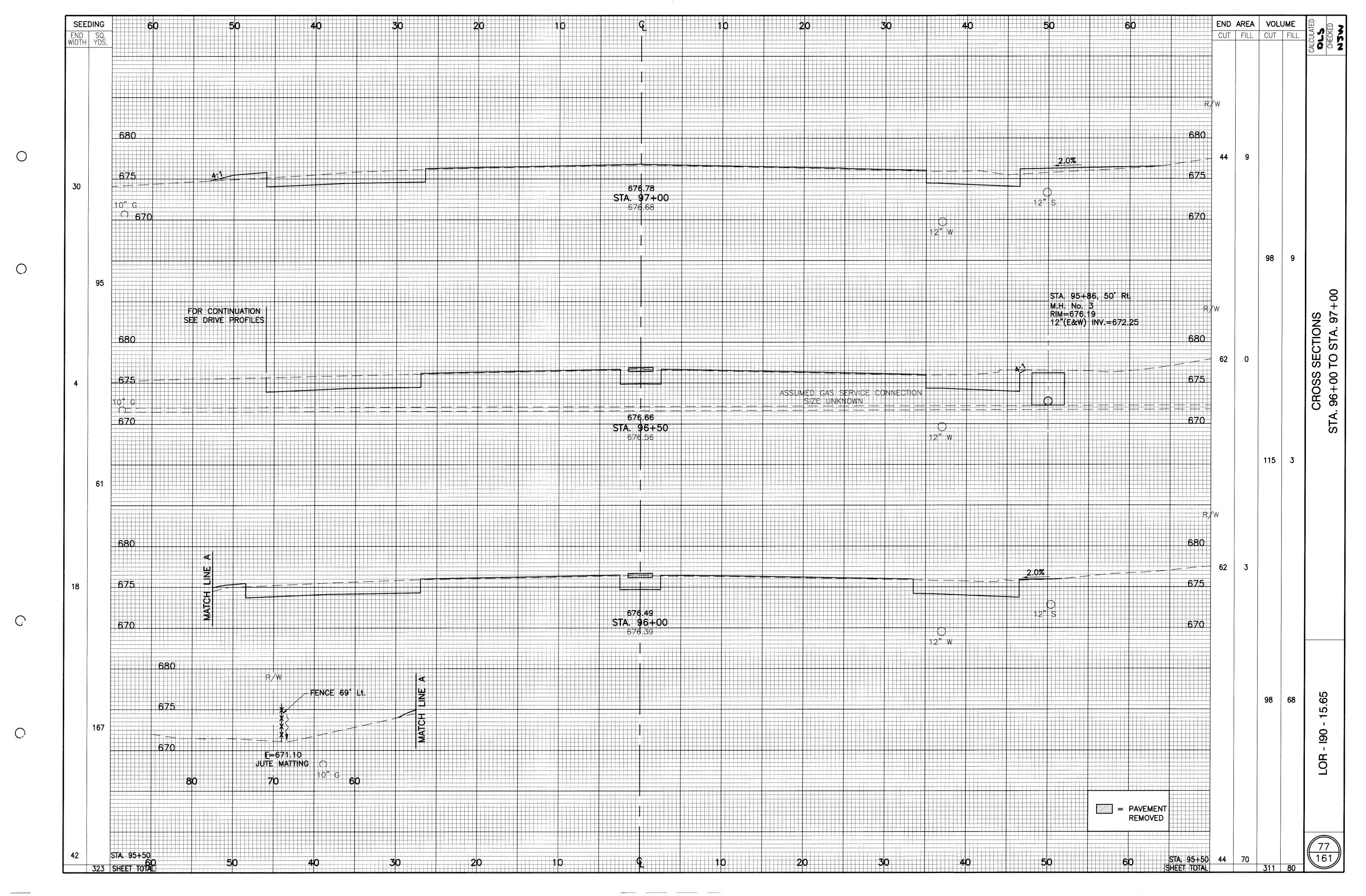
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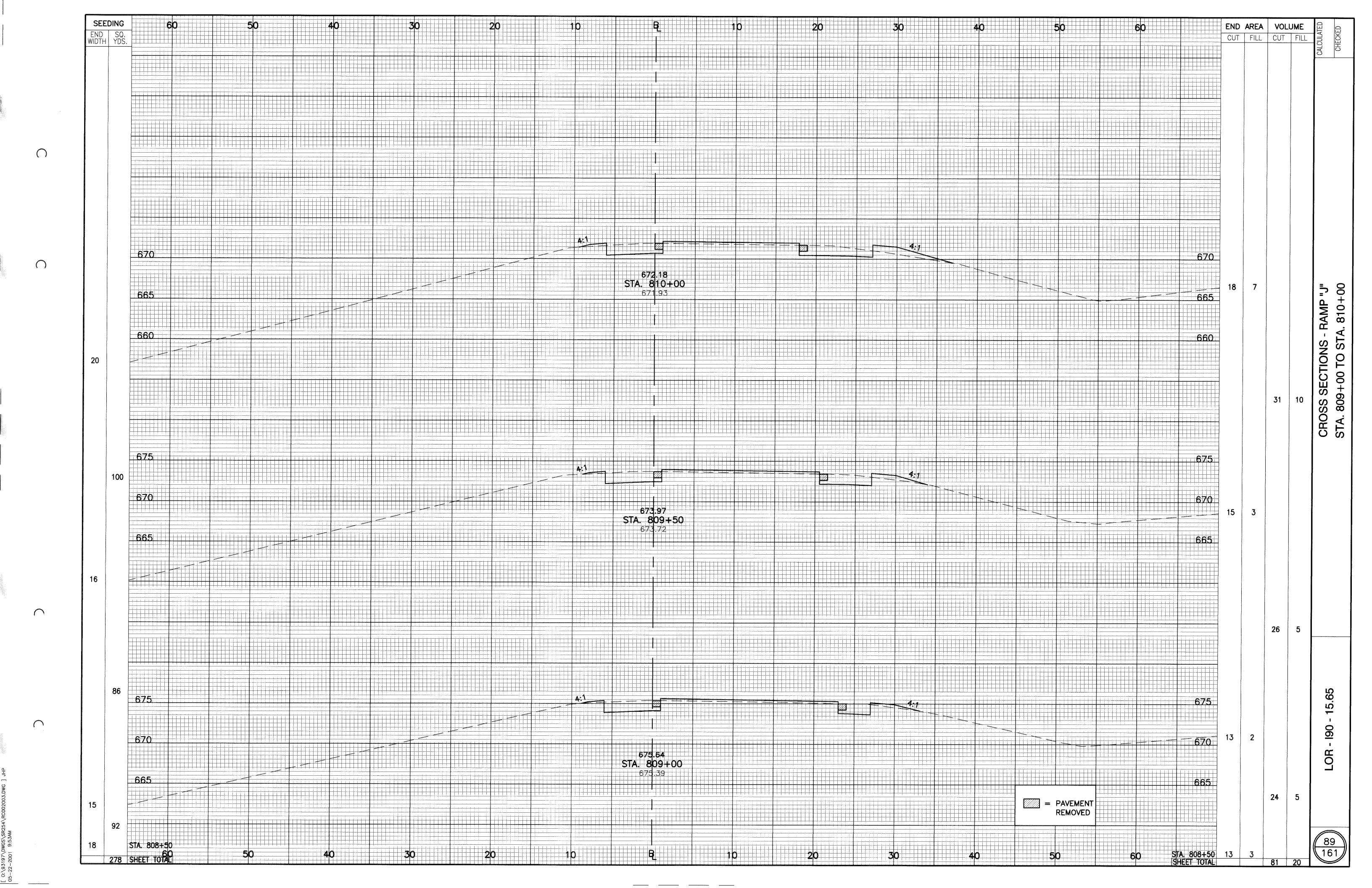
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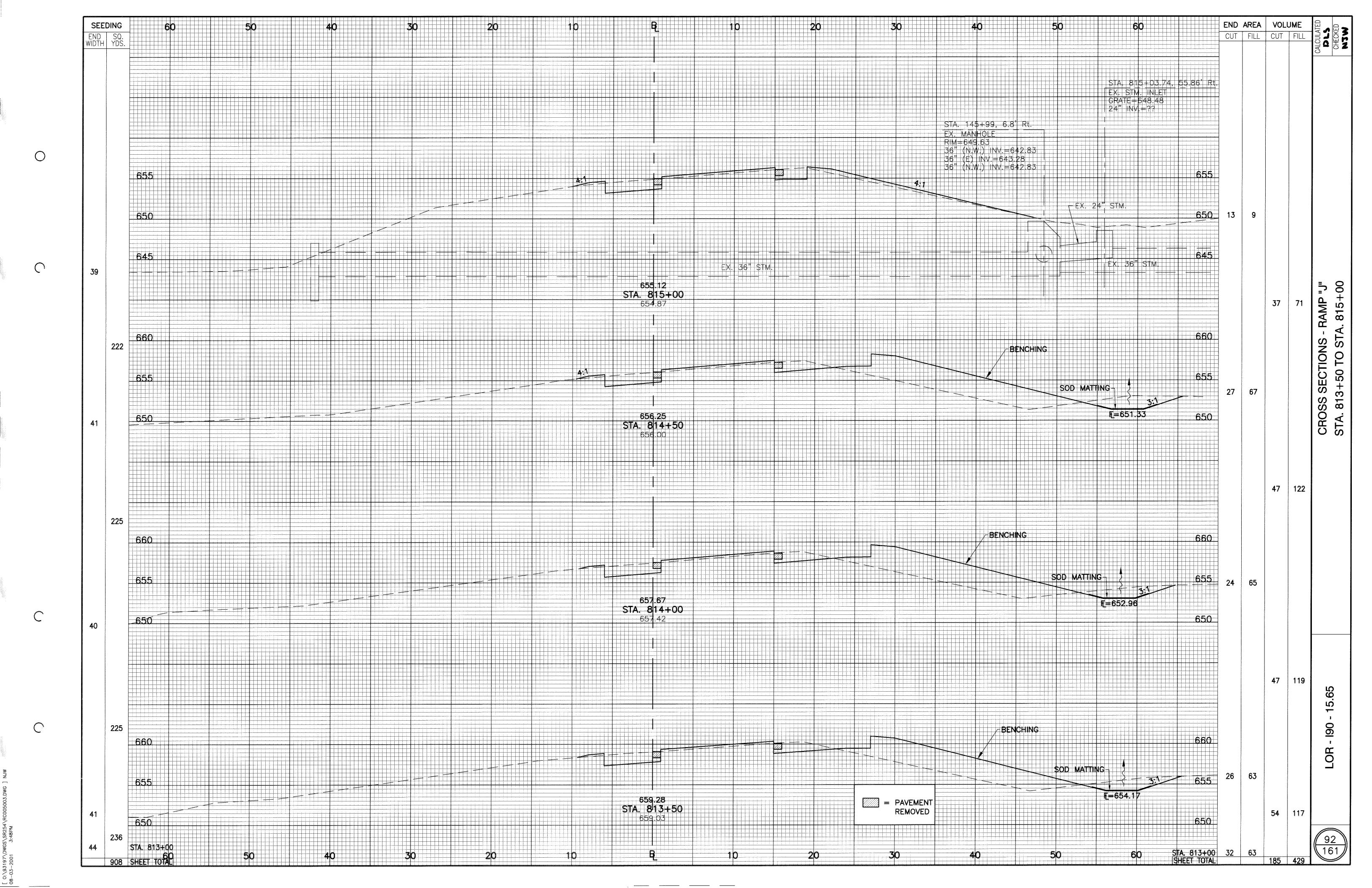
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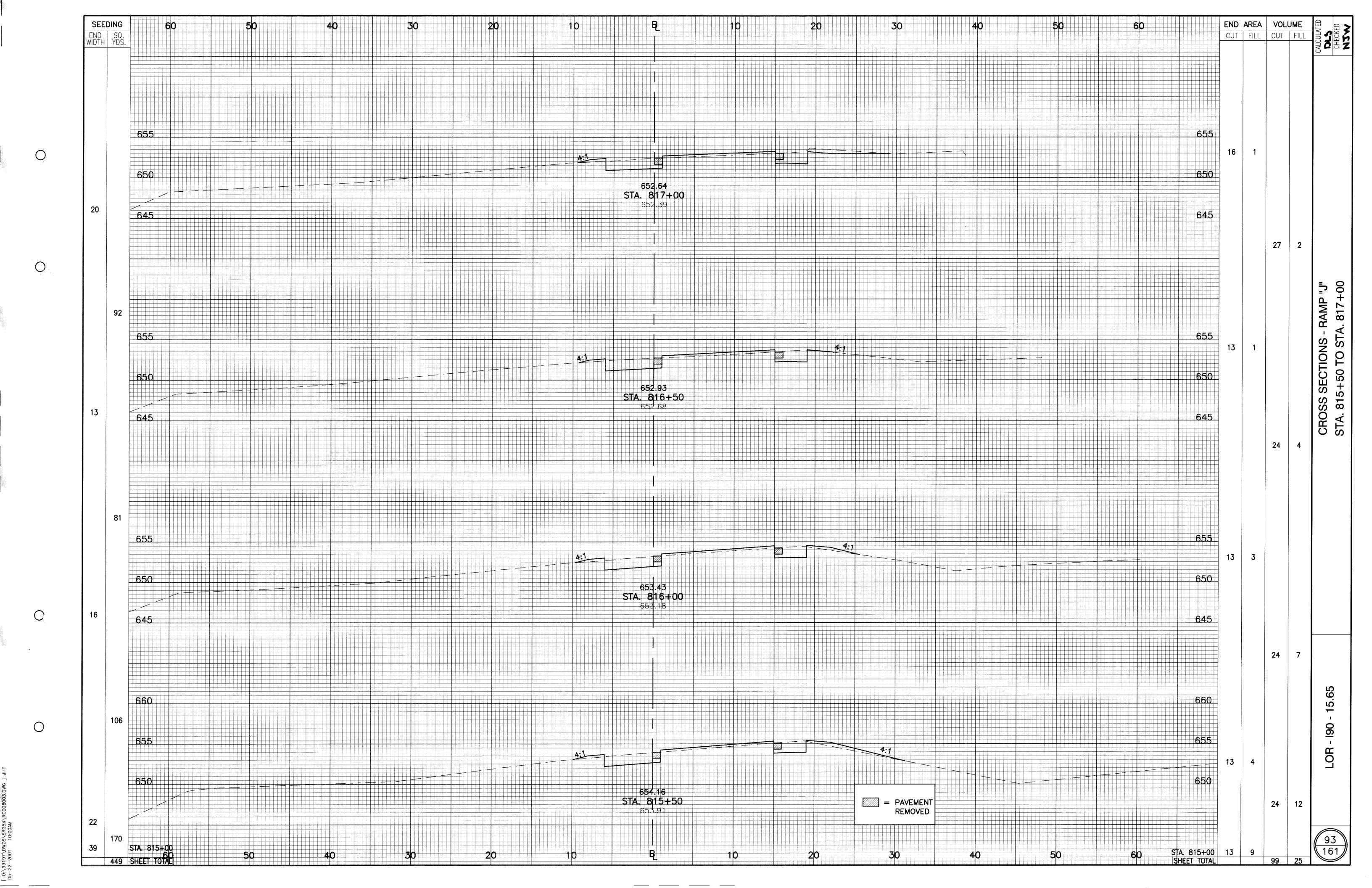
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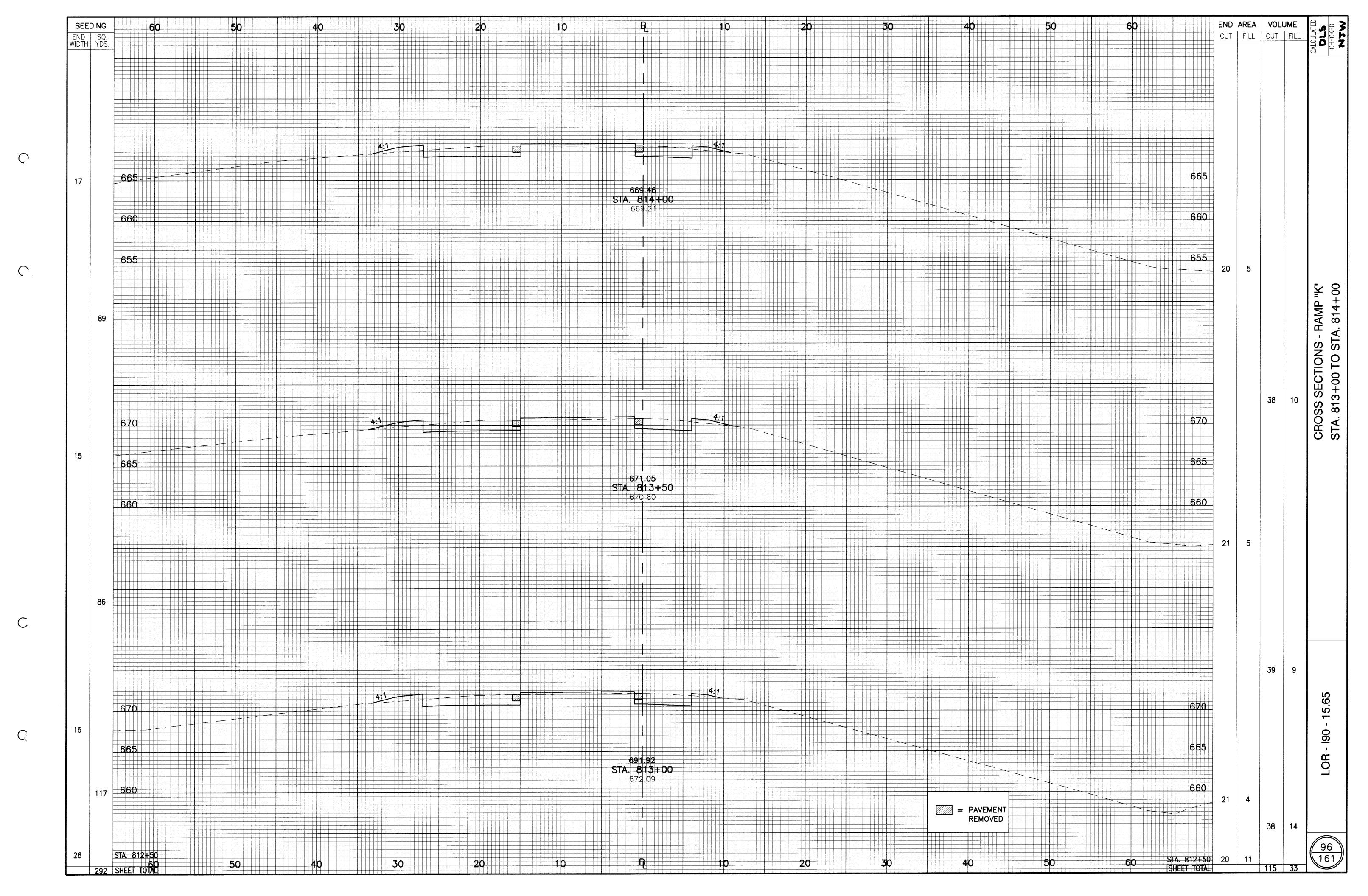


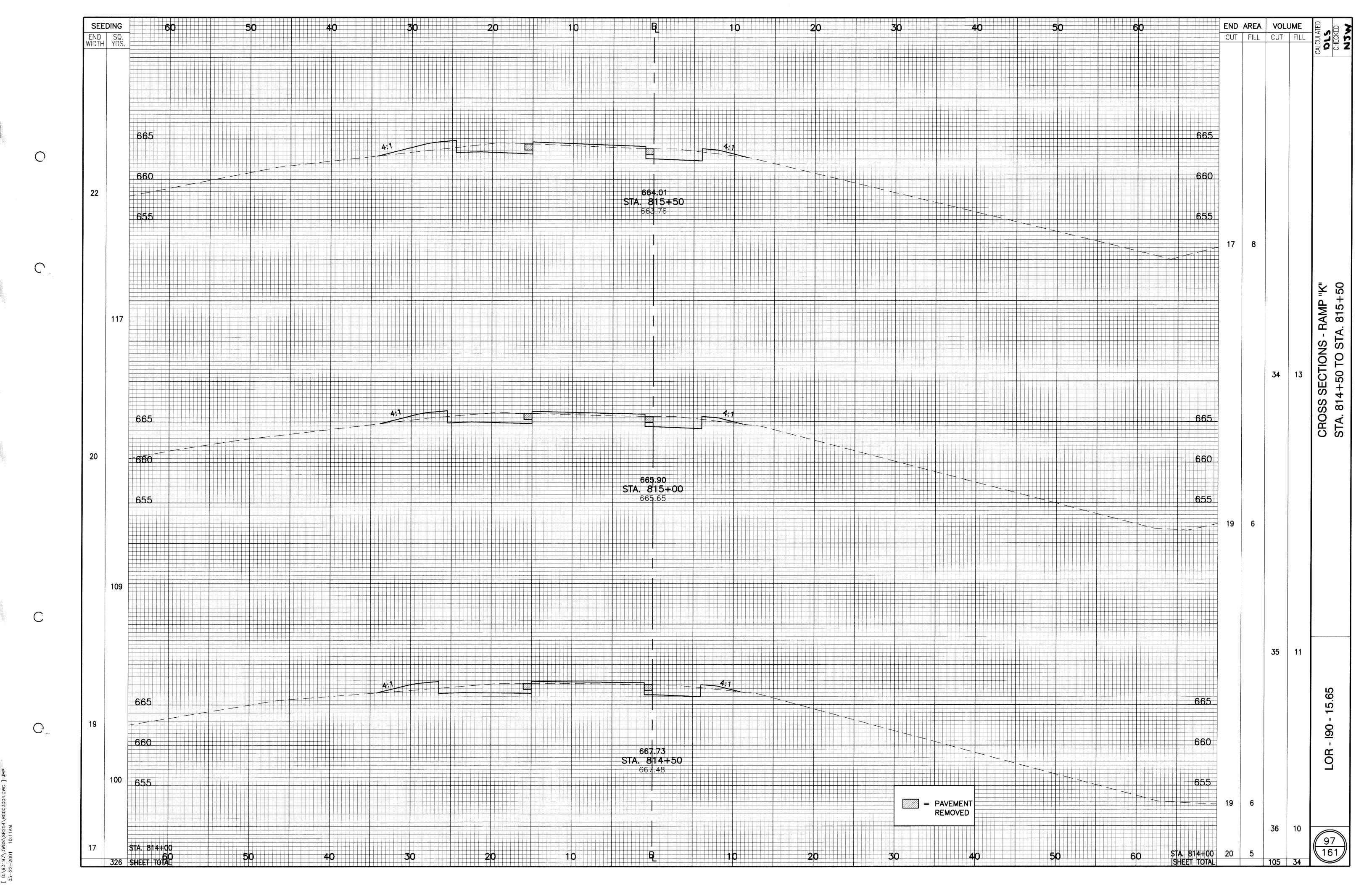
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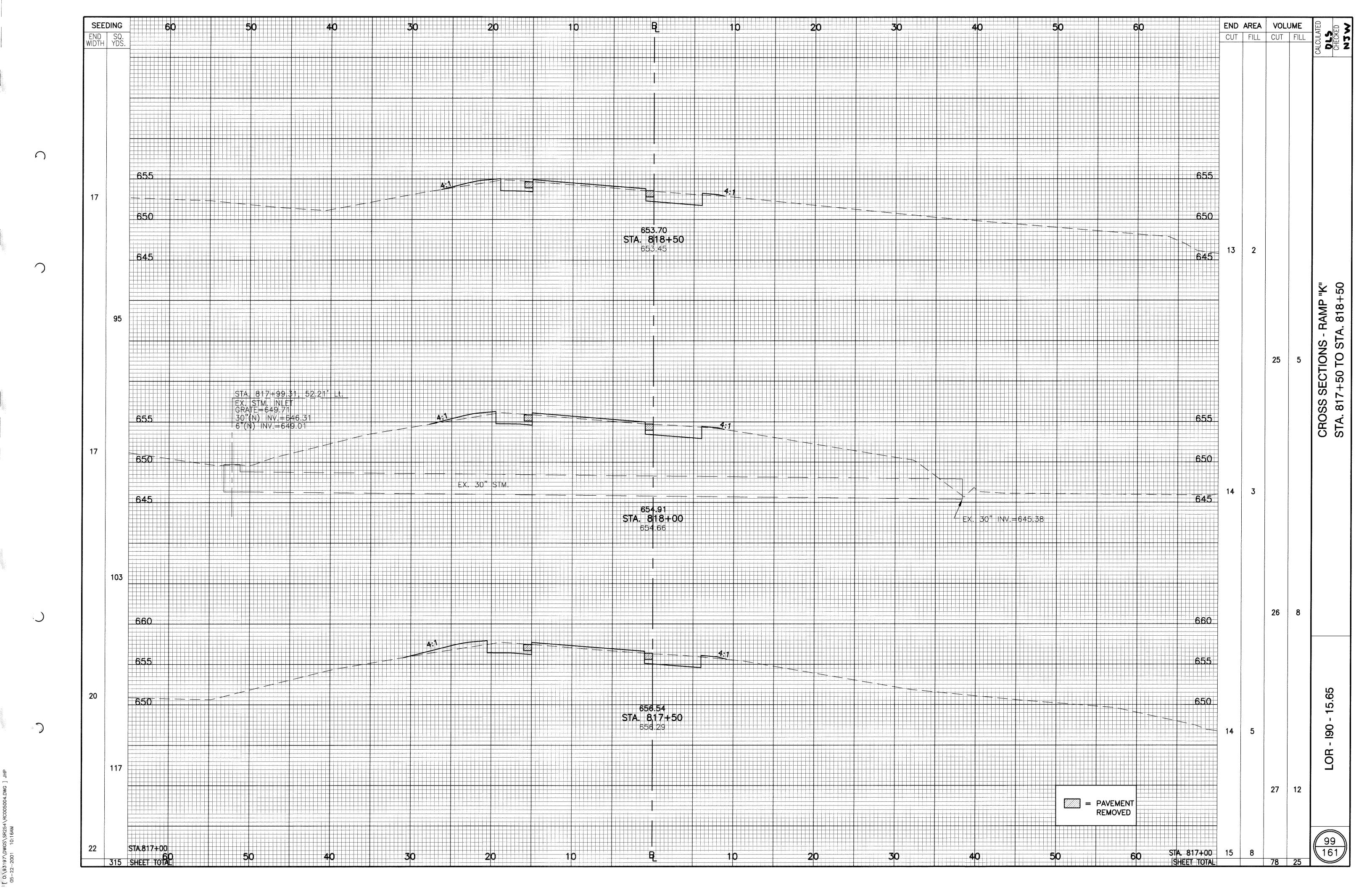


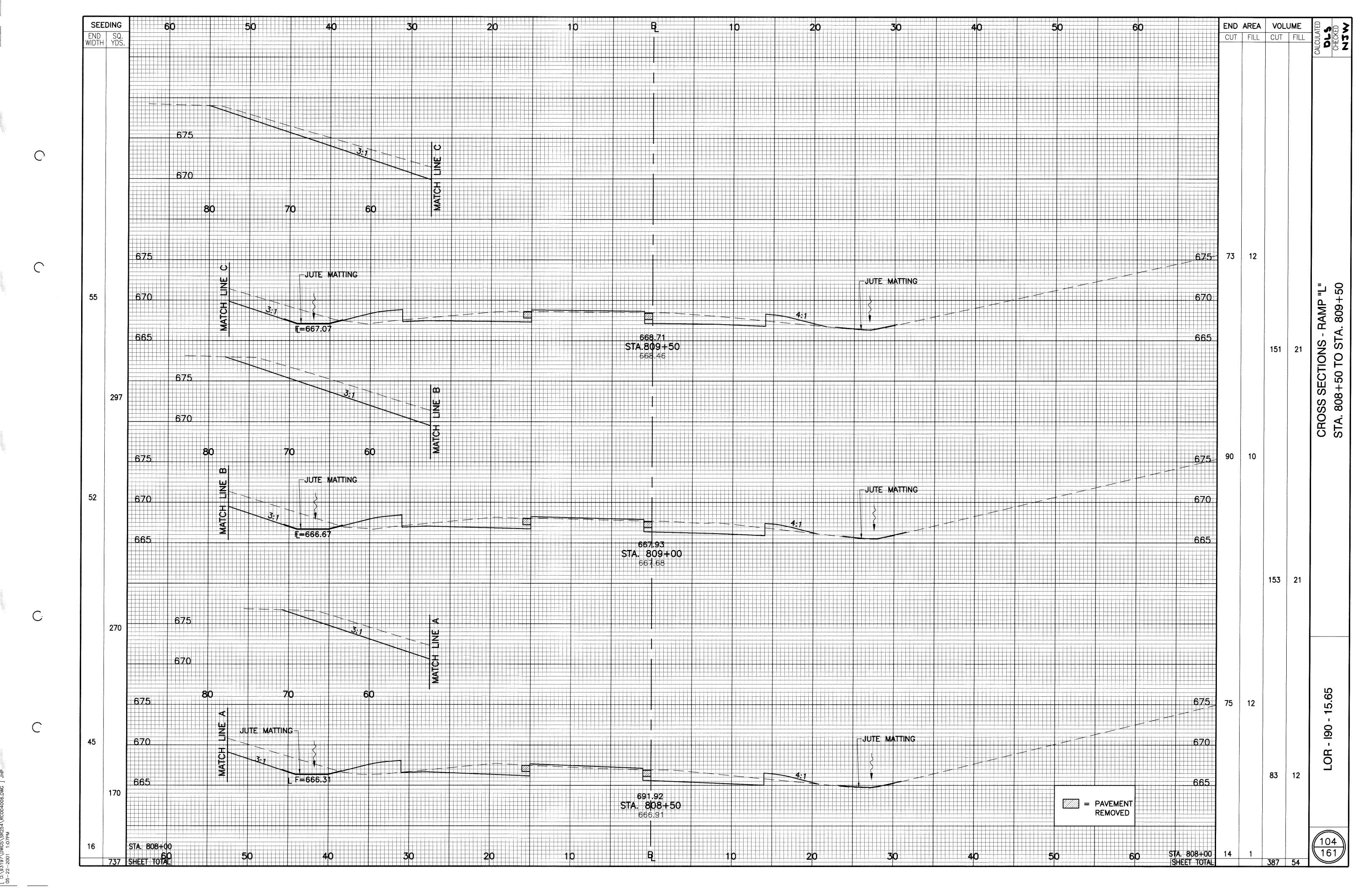
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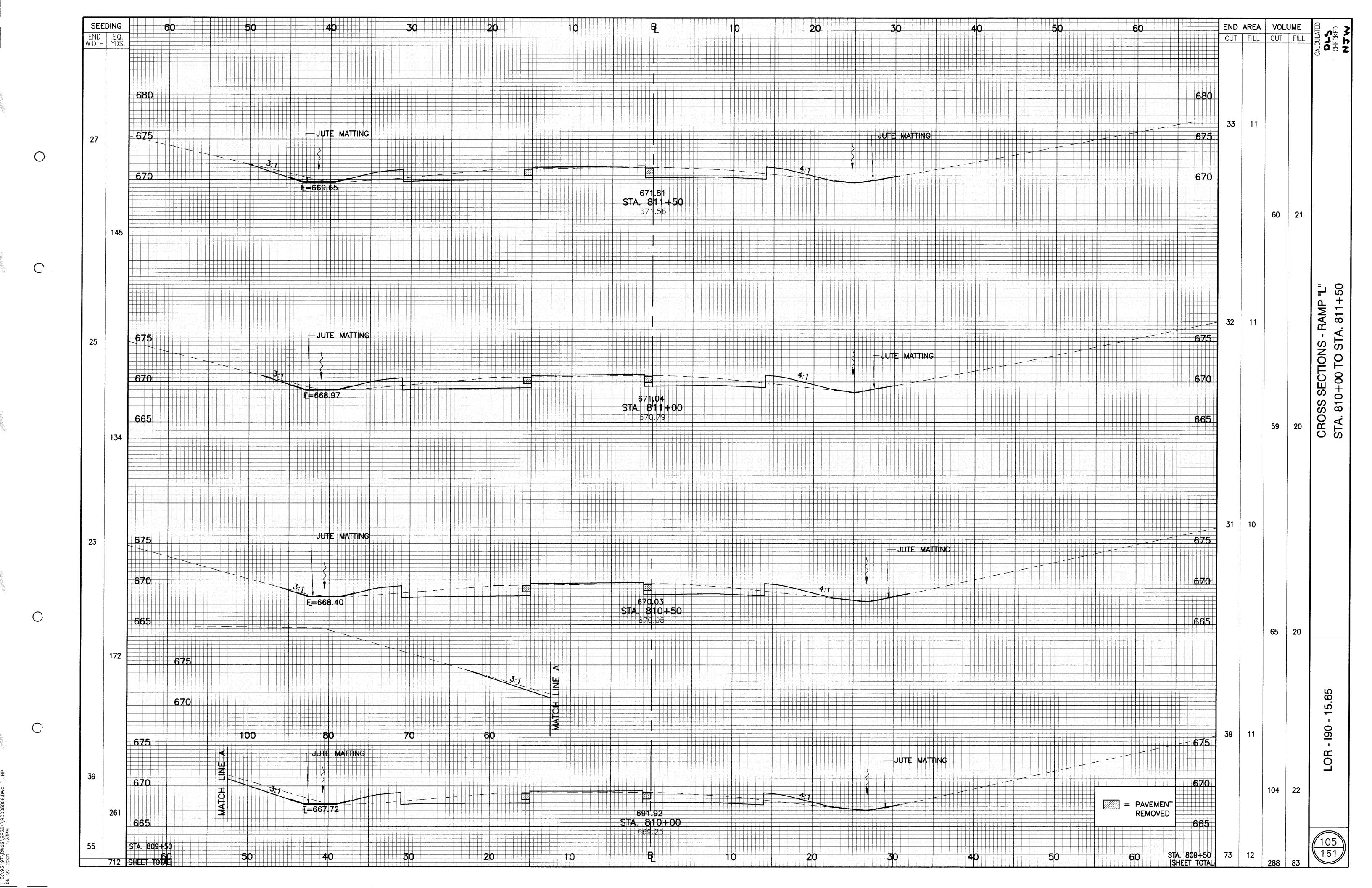


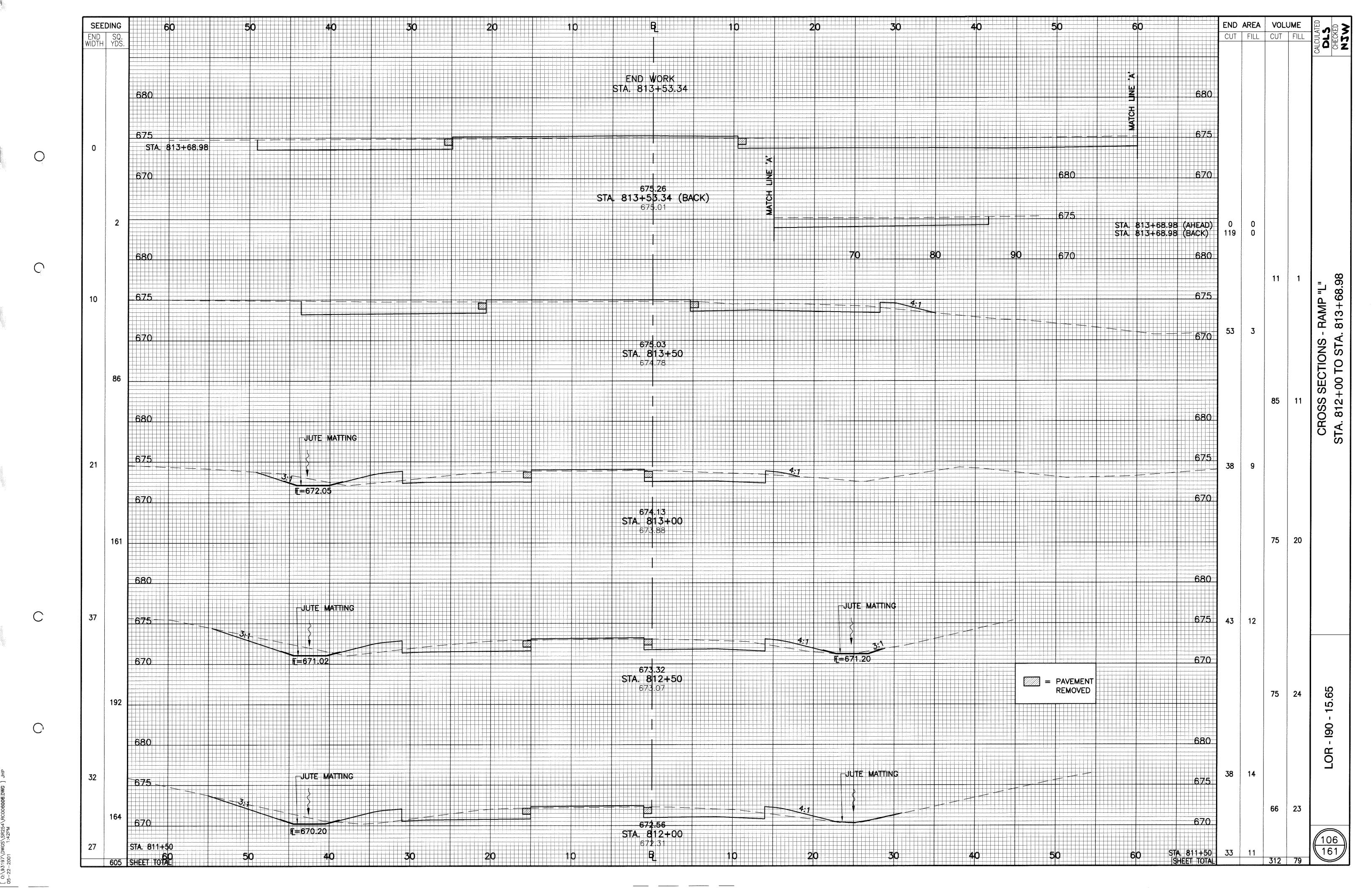


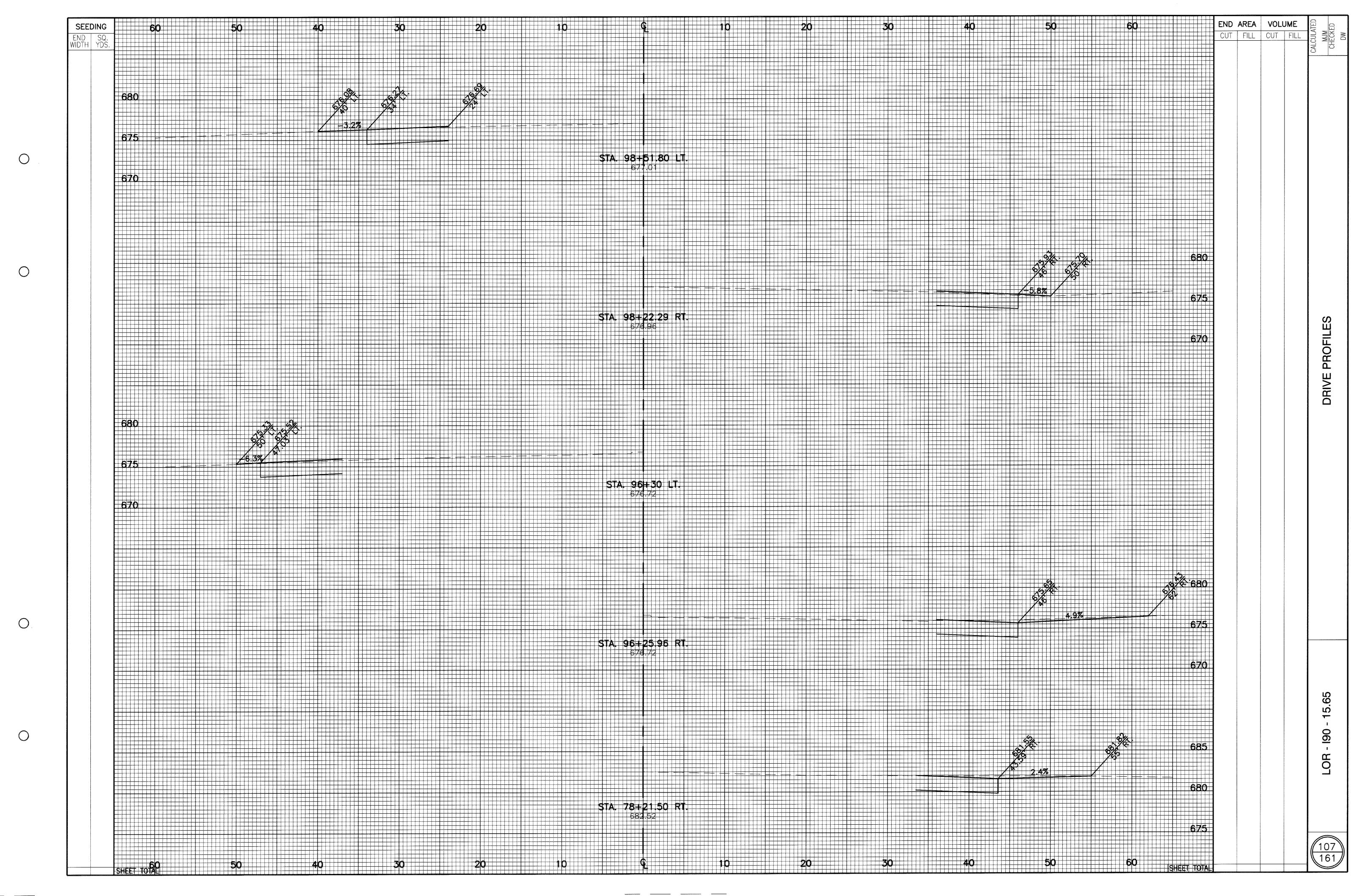
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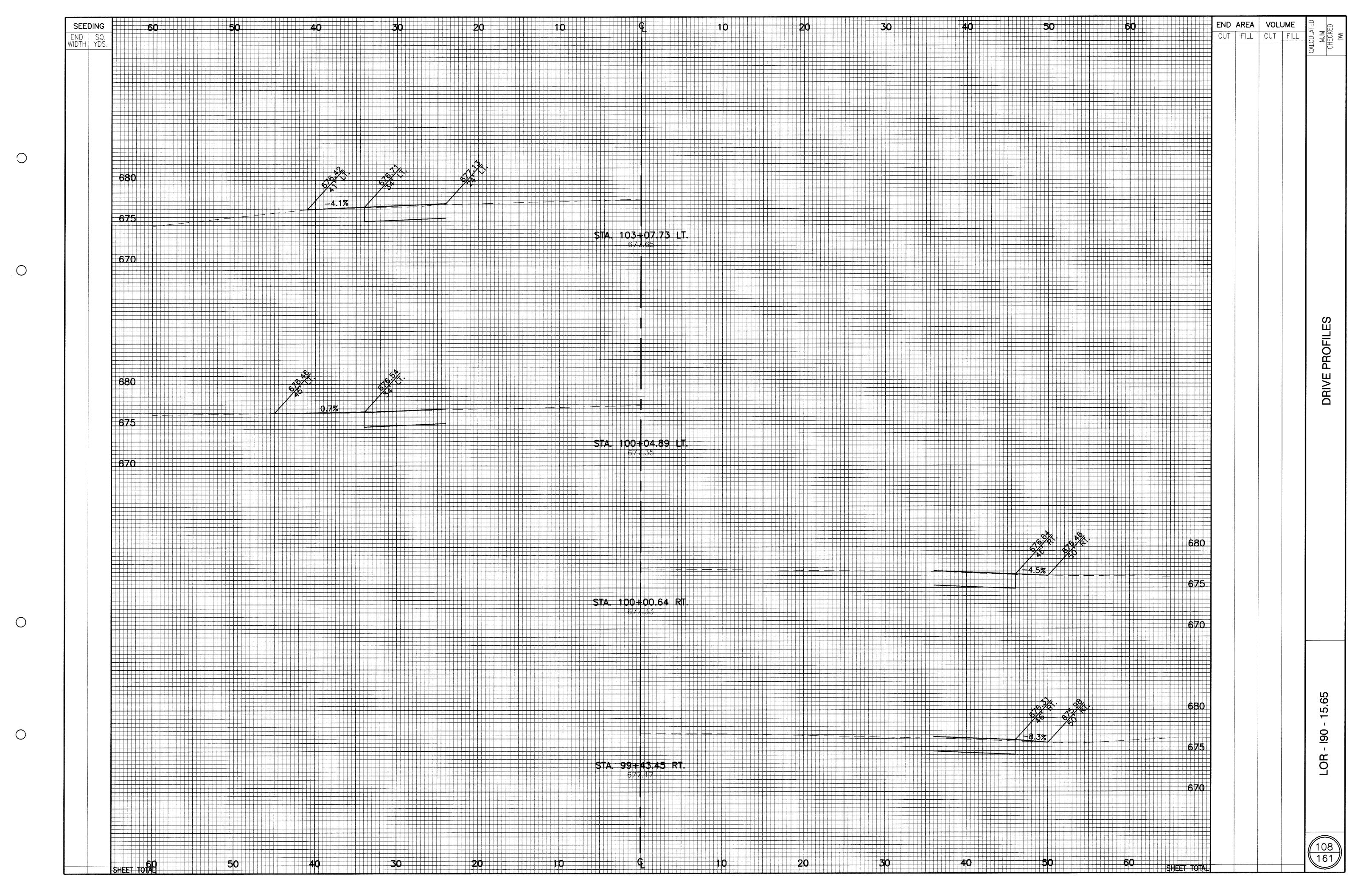


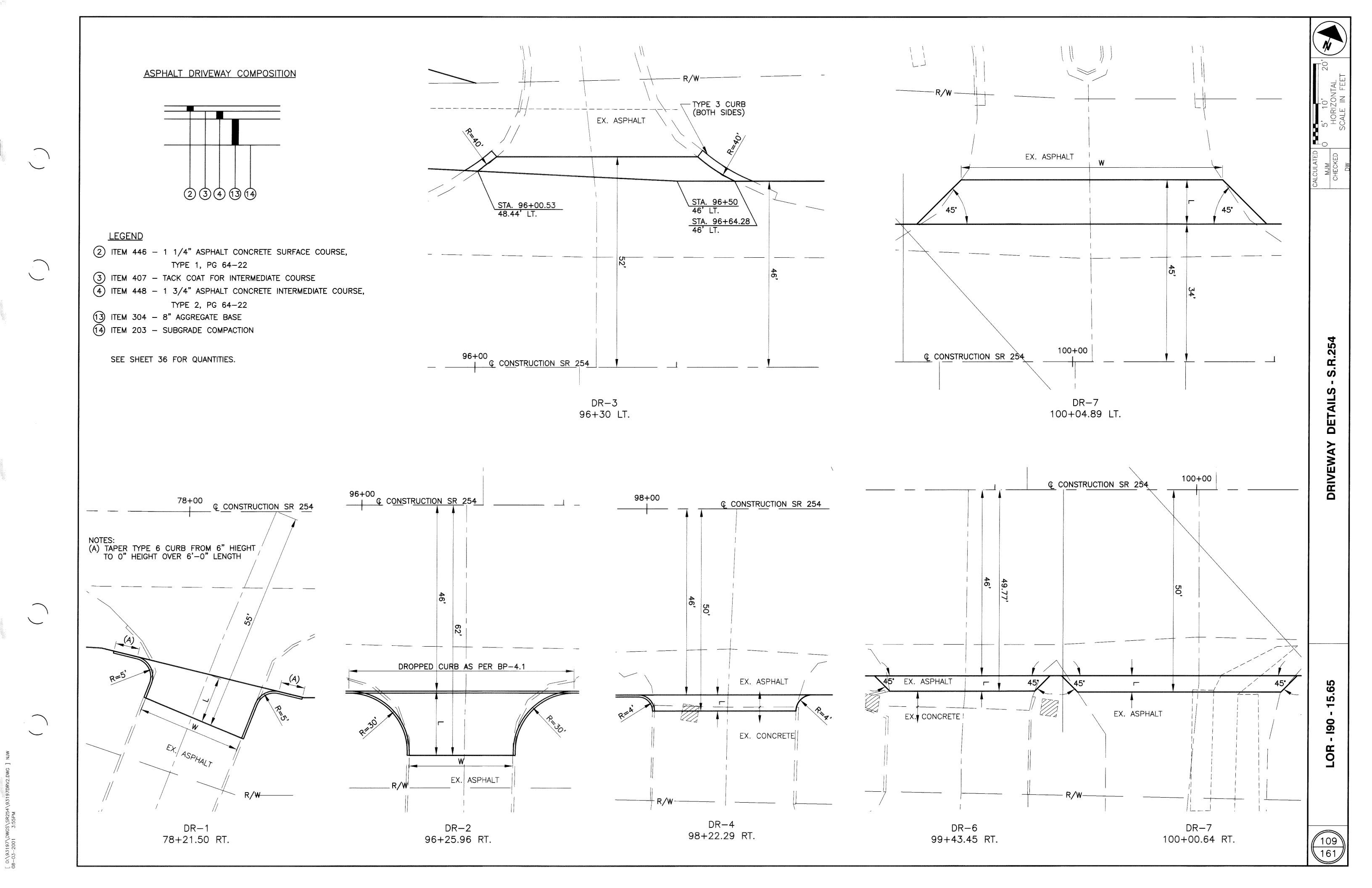


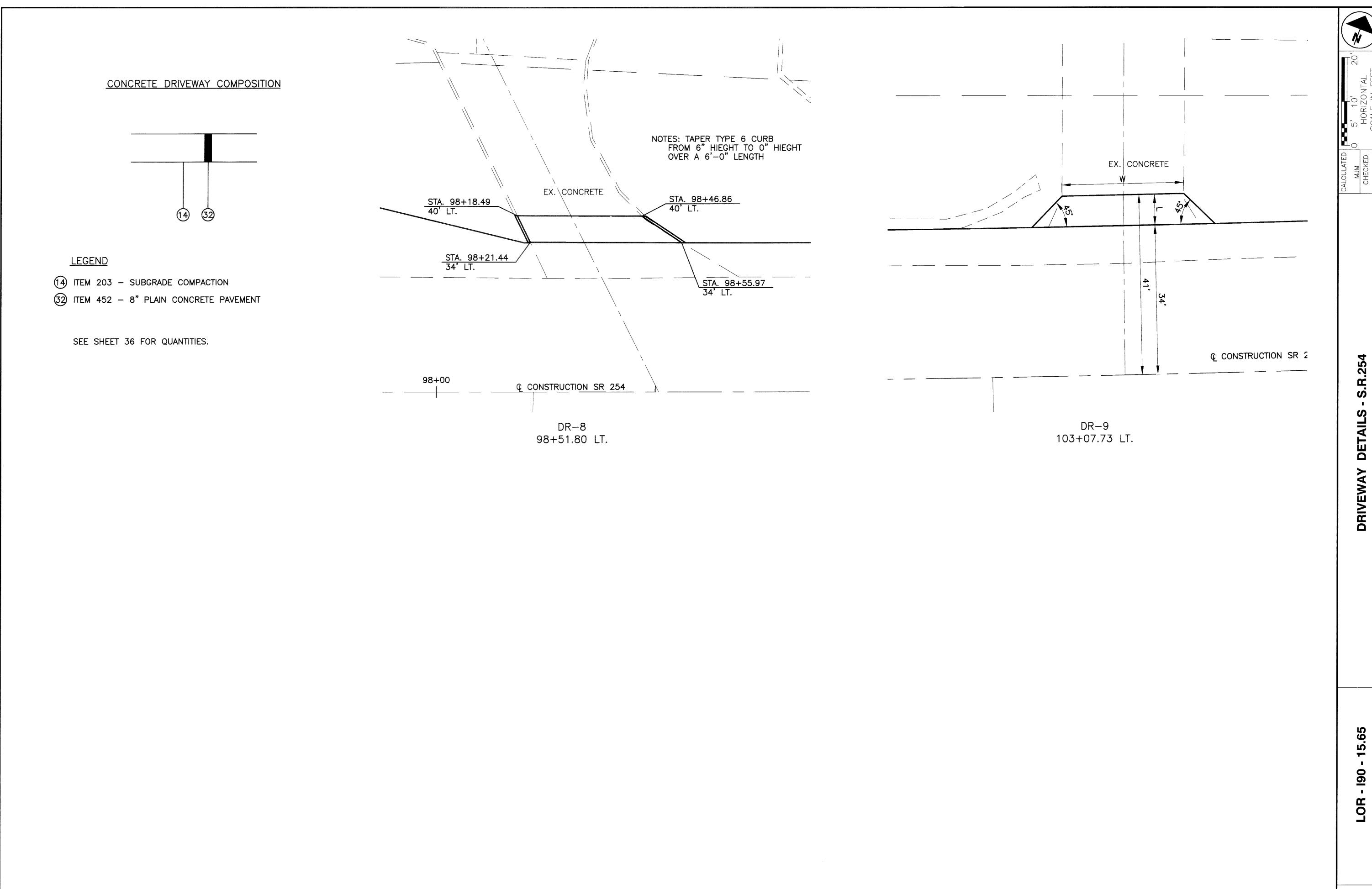




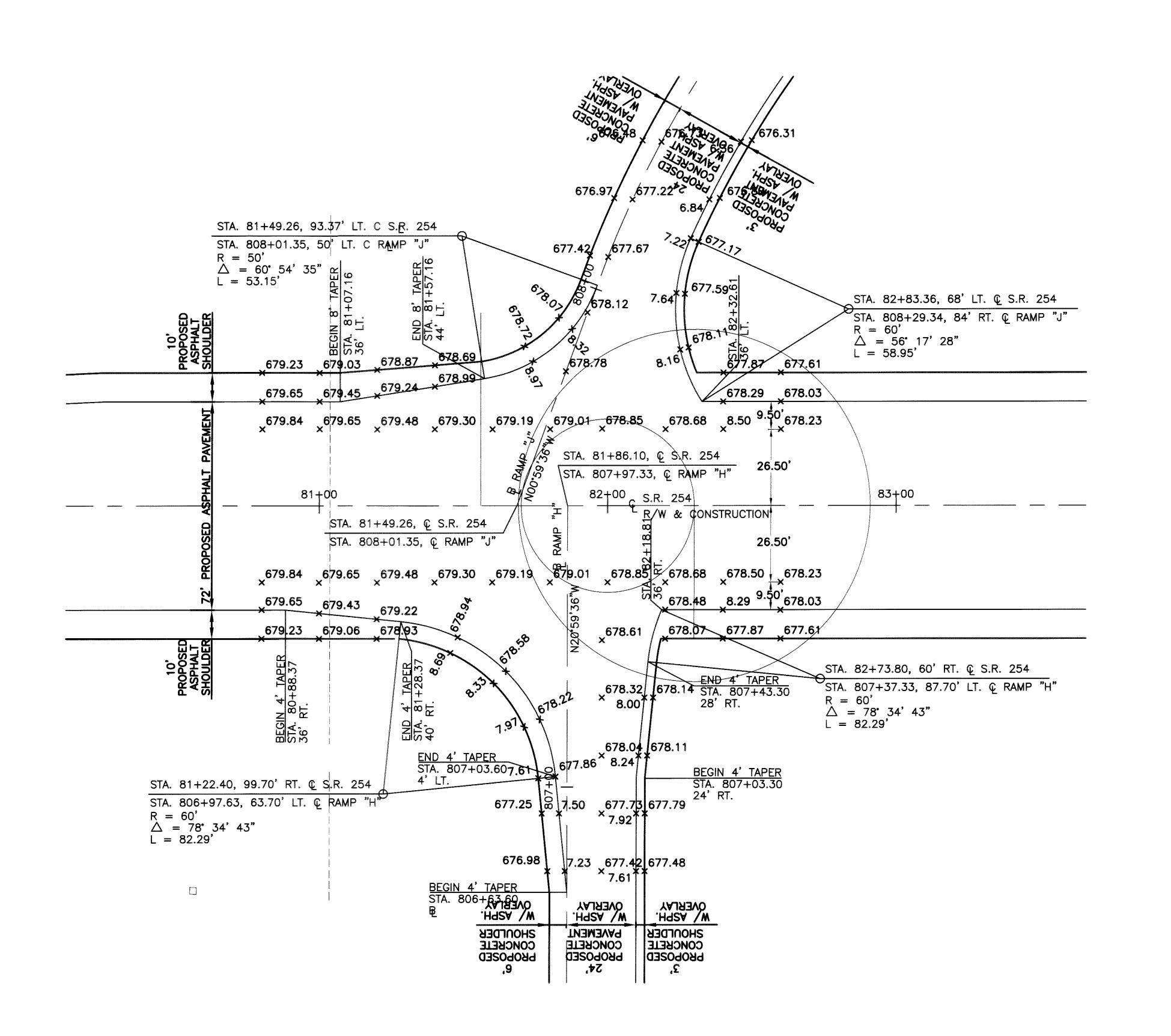
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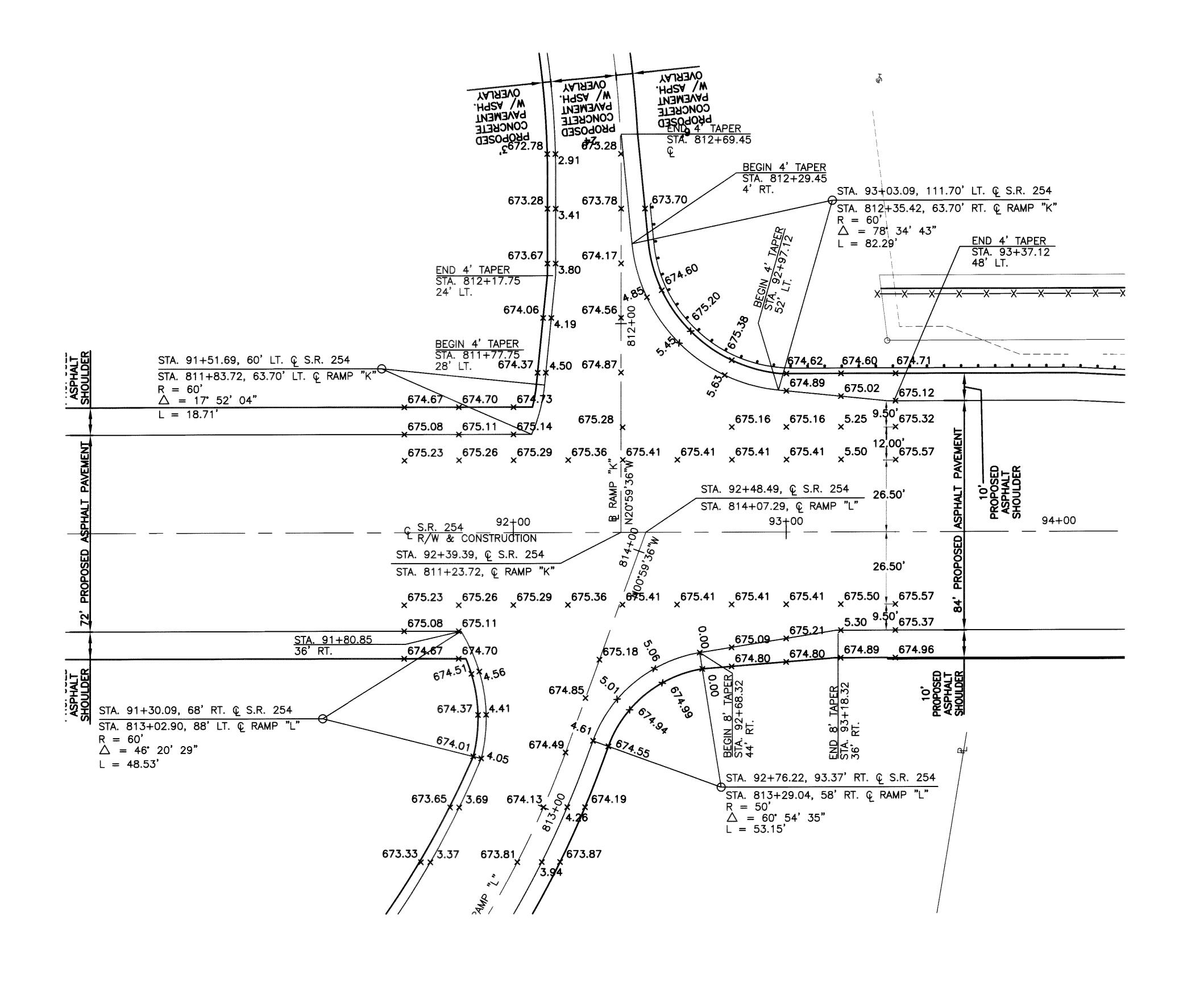


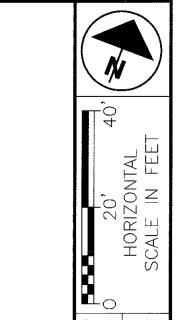
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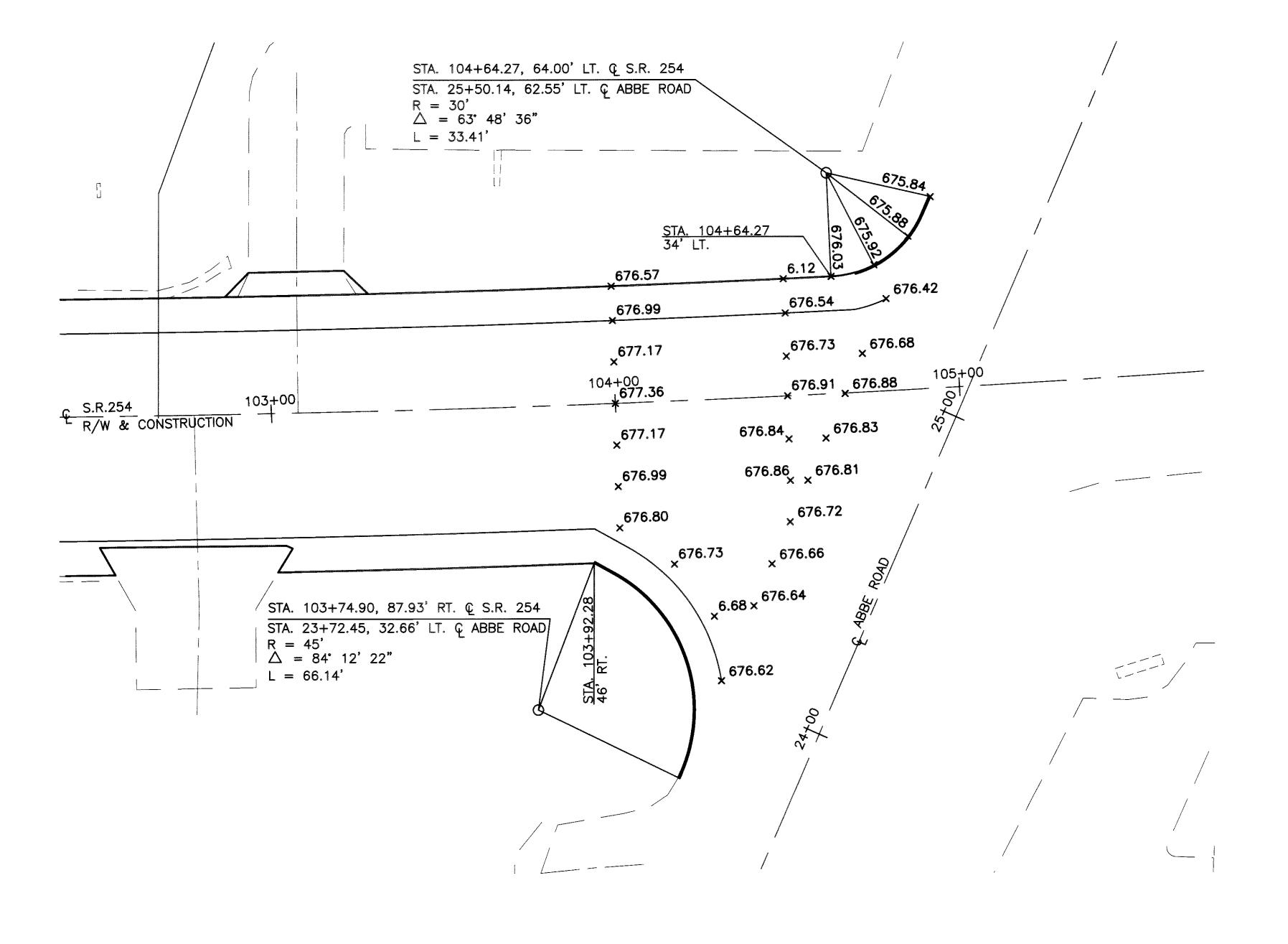


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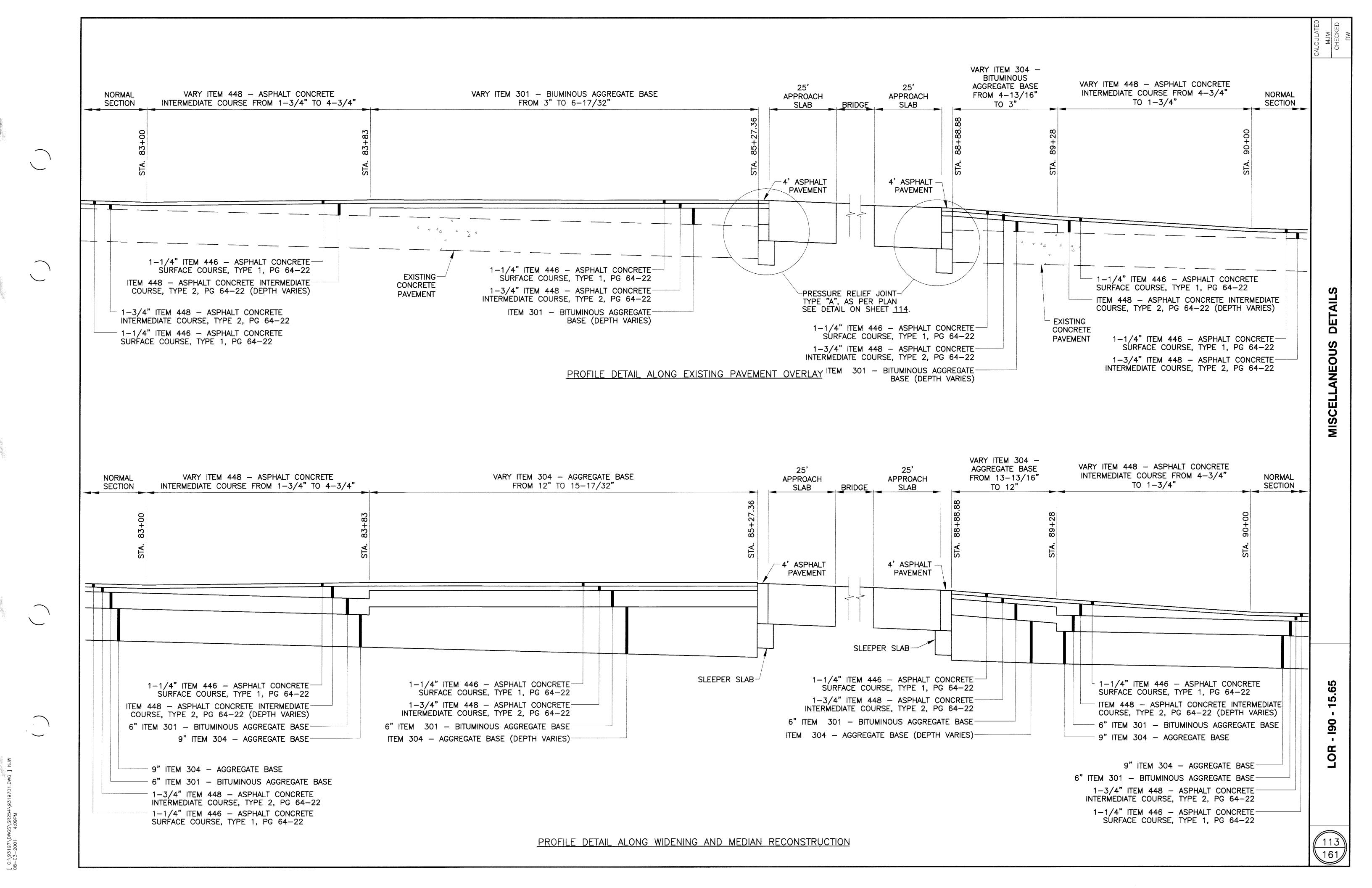
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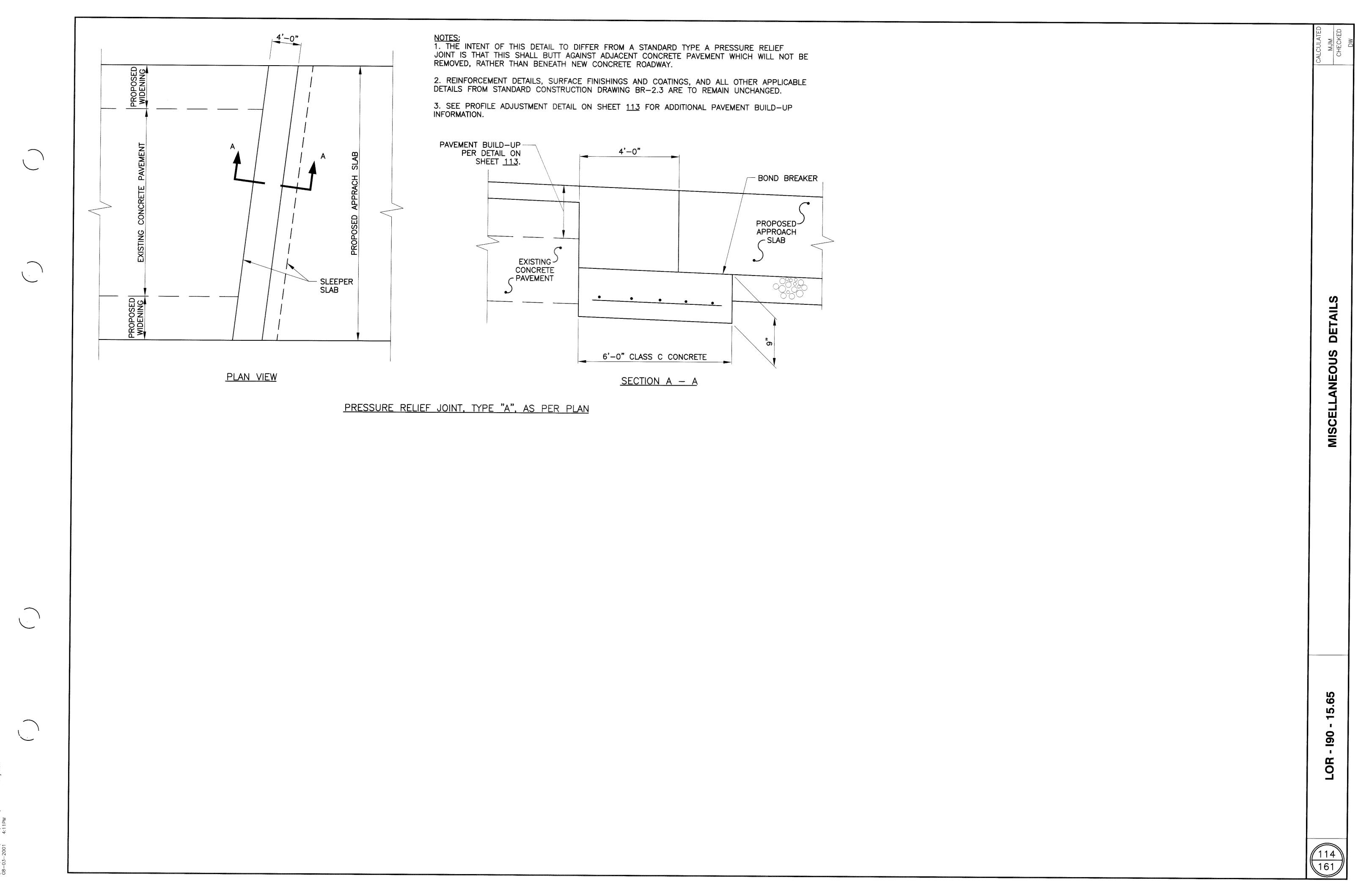


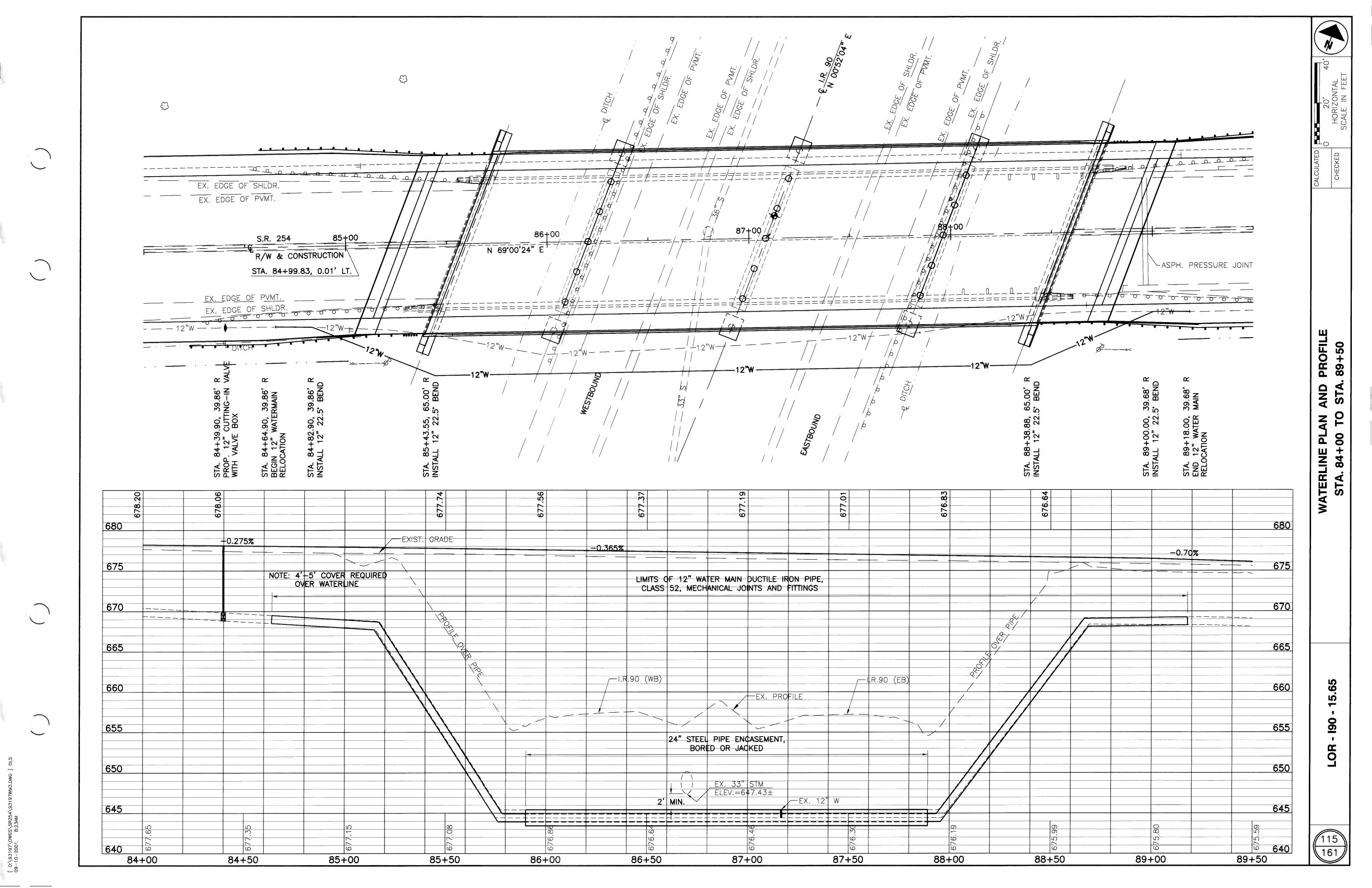




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WATER WORK - GENERAL

SCOPE OF WORK

THE WORK CONTEMPLATED UNDER THIS CONTRACT COMPRISES RELOCATION OF A 12" WATER MAIN RUNNING UNDER I-90, DUE TO THE WIDENING OF THE S.R. 254 BRIDGE, FROM CURRENT 4 LANE TO 6 LANE HIGHWAY. THE LINE WILL NEED TO BE BORED OR JACKED UNDER I-90 TO SHIFT THE LINE TO THE SOUTH. THE RELOCATED LINE WILL BE RECONNECTED TO THE EXISTING LINE ON EITHER SIDE OF I-90.

THE CONTRACTOR SHALL NOTIFY SHEFFIELD VILLAGE WATER THREE (3) WEEKS PRIOR TO STARTING ANY WATER WORKS CONSTRUCTION. CALL 440-949-6209.

AFTER AWARD OF CONTRACT, THE CONTRACTOR THROUGH THE PROJECT ENGINEER SHALL SUBMIT TO THE SHEEFIELD VILLAGE WATER, A CONSTRUCTION SCHEDULE RELATING TO WATERWORK.

PROPER FACILITIES SHALL BE PROVIDED FOR PROTECTING THE WORK FROM DAMAGE BY FLOOD RAIN OR FROST, AND WORK DONE IN FREEZING WEATHER SHALL BE DONE IN SUCH MANNER AS THE ENGINEER MAY APPROVE. VALVES SHALL BE PROTECTED FROM FREEZING UNTIL BACKFILLED IN THE COMPLETED WORK.

TESTING MAINS

ALL PIPES, VALVES, FITTINGS, ETC., SHALL BE LAID IN SUCH A MANNER AS TO LEAVE ALL JOINTS WATERTIGHT. AFTER THE PIPE IS LAID, SUCH LENGTHS OF THE WATER MAIN AS THE DIRECTOR OR HIS DESIGNATE MAY DETERMINE, SHALL BE TESTED UNDER HYDROSTATIC PRESSURE INDICATED IN GENERAL NOTES.

THE HYDROSTATIC TEST PRESSURE SHALL BE FOR A DURATION OF A MINIMUM OF TWO (2) HOURS WITH ALL VALVES CLOSED DURING WHICH TIME THE INTERNAL PRESSURE SHALL REMAIN WITHIN 5 PSI OF THE SPECIFIED TEST PRESSURE. SHOULD THE TEST PRESSURE DROP MORE THAN 5 PSI, THE CONTRACTOR SHALL RECHARGE THE WATER MAIN TO THE SPECIFIED TEST PRESSURE AND LOCATE AND REPAIR THE LEAK TO THE SATISFACTION OF THE VILLAGE. ANY DAMAGED OR DEFECTIVE PIPE, PIPE JOINTS, FITTINGS, VALVES, HYDRANTS OR APPURTENANCES SHALL BE REPAIRED OR REPLACED WITH SOUND MATERIAL AND THE HYDROSTATIC PRESSURE TEST REPEATED.

WATER MAIN DISINFECTION

- (A.) WATER MAIN DISINFECTION SHALL CONSIST OF: FLUSHING WATER MAINS AFTER THE HYDROSTATIC TEST AND PRIOR TO THE CHLORINATION PROCEDURE; THE CHLORINATION PROCEDURE, THE FINAL FLUSHING AND SAMPLING.
- 1. TAPS, TAPPING SADDLES, SERVICE PIPES, COMBINATION BLOWOFFS, AND EXISTING WATER MAINS WITH READILY ACCESSIBLE CONTROL VALVES, AND ALL PIPES, APPLIANCES, LABOR AND OTHER APPURTENANCES SHALL BE FURNISHED OR PROVIDED BY THE CONTRACTOR. THEY SHALL BE USED FOR INTRODUCING DISINFECTING AGENT AND WATER FOR FLUSHING INTO THE NEW OR EXTENDED WATER MAINS. TAPS OR SERVICE PIPES SHALL BE A MINIMUM ONE INCH (1") SIZE OF COPPER TO IRON PIPE THREAD CONFIGURATION. ADDITIONAL TAPS SHALL BE PROVIDED IF NECESSARY. ALL ONE INCH (1") TAPS ON DUCTILE IRON WATER MAINS WITH THICKNESS LESS THAN CLASS 56 WILL REQUIRE BRONZE DOUBLE STRAP TAPPING SADDLES, OR APPROVED EQUAL, FURNISHED BY THE CONTRACTOR.
- 2. SUCH LENGTHS OF THE WATER MAIN AS THE VILLAGE MAY DETERMINE, SHALL BE CHLORINATED; HOWEVER, IN NO CASE SHALL THE LENGTH EXCEED THAT WHICH CAN BE CHLORINATED SATISFACTORILY IN ONE (1) WORK DAY. SUCH MAXIMUM LENGTH IS GENERALLY UP TO THREE (3) MILES TOTAL, INCLUDING BRANCHES AND CONNECTING WATER MAIN(S), FOR SIXTEEN INCH (16") AND SMALLER; AND THREE (3) VALVE SECTIONS, OR TWO (2) MILES, FOR TWENTY INCH (20") OR LARGER WATER MAINS.
- 3. THE CONTRACTOR SHALL PREPARE AND PRESENT TO THE VILLAGE FOR APPROVAL A PLAN FOR ALL DISINFECTION FROM THE HYDROSTATIC TESTING TO THE FINAL FLUSHING FOR THE NEW OR EXTENDED WATER MAIN, INCLUDING ANY BRANCHES. THE DISINFECTION PLAN SHALL SHOW COMPLETE LAYOUT, INCLUDING SIZES AND LOCATION OF: (A) FLUSHING WATER SOURCE; (B) WATER SOURCE FOR CHLORINATION UTILIZING CALCIUM HYPOCHLORITE SOLUTION FURNISHED IN MIXING DRUM; (C) BLENDING WATER SOURCE TO ASSURE PROPER AND UNIFORM CONCENTRATION OF CHLORINATION SOLUTION THROUGHOUT THE WATER MAIN TO BE DISINFECTED; (D) OUTLETS TO BE UTILIZED OR PROVIDED FOR THE DRAWING AND FINAL FLUSHING OF CHLORINE SOLUTION THROUGH AND FROM THE WATER MAIN BEING DISINFECTED; AND (E) TYPE, NUMBER, SEQUENCE AND SIZES OF OUTLETS INCLUDING FIRE HYDRANTS AND VALVES TO BE OPERATED.

(B.) FLUSHING

- 1. BEFORE DISINFECTION ALL DIRT AND FOREIGN MATTER SHALL BE REMOVED FROM THE NEW WATER MAIN OR EXTENSIONS TO EXISTING MAINS BY A THOROUGH FLUSHING THROUGH THE HYDRANTS OR BY OTHER APPROVED MEANS. EACH VALVE SECTION OF THE NEWLY LAID PIPE SHALL BE FLUSHED INDEPENDENTLY. THIS SHALL BE DONE AFTER THE PRESSURE TEST. FLUSHING SHALL BE IN ACCORDANCE WITH ANSI/AWWA C 651 STANDARD FOR DISINFECTING WATER MAINS. WHERE THE FLUSHING VELOCITY SPECIFIED THEREIN CANNOT BE ATTAINED, FLUSHING RATES AS DETERMINED BY THE DIRECTOR TO BE SUFFICIENT SHALL BE PERMITTED. IF IN THE OPINION OF THE DIRECTOR THE FLUSHING PRIOR TO THE CHLORINATION PROCEDURE DOES NOT REMOVE DIRT OR OTHER ACCUMULATIONS IN THE PIPE, THE PIPE SHALL BE CLEANED BY MECHANICAL MEANS BY THE CONTRACTOR AND THE FLUSHING SHALL BE REPEATED.
- 2. THE FLUSHING OF THE CHLORINATION SOLUTION SHALL BE DONE BY THE VILLAGE UNTIL THE CHLORINE SOLUTION IS TOTALLY FLUSHED OUT OF THE SYSTEM BEING DISINFECTED. ALL FLUSHING SHALL BE UNDER THE CONTROL OF THE VILLAGE OF PUBLIC UTILITIES, OR HIS DESIGNATE. THE CONTRACTOR SHALL OBTAIN WATER FOR FLUSHING IN THE SAME MANNER AS FOR TESTING.

CONTINGENCY ITEMS FOR ADJUSTMENTS TO GRADE PERTAINING TO THE EXISTING WATER LINE:

AS A RESULT OF THE PROPOSED CONSTRUCTION, EXISTING VALVE BOXES AND/OR FIRE HYDRANTS MAY NEED TO BE ADJUSTED TO MEET FINAL GRADE, WITHIN THE RIGHT-OF-WAY.

THE ADJUSTMENT OF THE EXISTING VALVE BOXES AND/OR FIRE HYDRANTS SHALL BE AS DETERMINED/DIRECTED BY THE ENGINEER

TO PROVIDE FOR CONTINGENCY, THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 638 - FIRE HYDRANT ADJUSTED TO GRADE

1 EACH

ITEM 638 - VALVE BOX ADJUSTED TO GRADE

6 EACH

ANY ADDITIONAL MATERIAL THAT MAY BE REQUIRED FOR THE ABOVE ADJUSTMENTS, SHALL NOT BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER.

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SENERAL WATER LINE NOTE

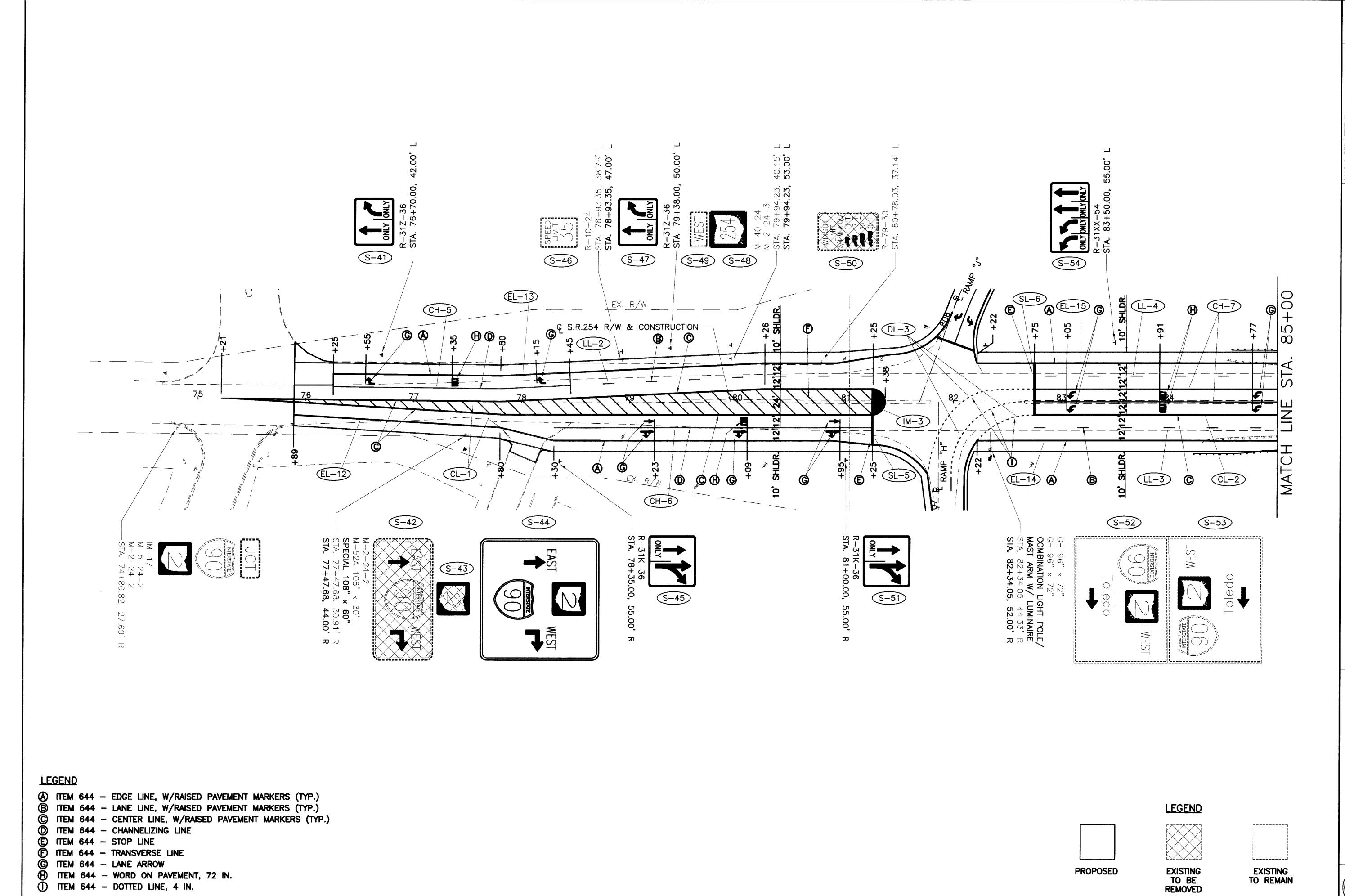
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SHEET NO.	REFERENCE NO.	STATION	OFFSET	CODE	SIZE (INCHES)	SIGN, FLAT SHEET,	SIGN BACKING ASSEMBLY	GROUND MOUNTED SUPPORT, NO. 3 POST	SZ ONE WAY SUPPORT,	GROUND MOUNTED SUPPORT, S4 x 7.7 BEAM	GROUND MOUNTED SUPPORT, W6 x 9 BEAM		REMOVAL OF GROUND MOUNTED SIGN & REERECTION	REMOVAL OF GROUND MOUNTED SIGN & DISPOSAL	REMOVAL OF OVERHEAD MOUNTED SIGN & DISPOSAL	REMOVAL OF GROUND MOUNTED MAJOR SIGN & TREERECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT & DISPOSAL	REMOVAL OF GROUND MOUNTED BEAM SUPPORT & DISPOSAL	SIGN, EXTRUSHEET,	GROUND MOUNTED BEAM SUPPORT FOUNDATION	BREAKAWAY BEAM CONNECTION	CALC
127	S-89 S-90	STA. 98+92.97 STA. 98+92.97	45.37' R 54.00' R	R-31C-48 R-31M-48	48" x 30" 48" x 30"	10.0	EACH	26.0	LIN. FI.	LIN. FT.	LIN. FT.		EAUT	1	EACH	EAUT	1	LACH	JQ. 11.	EACH	EACH	-
	S-91	STA. 99+55.88	43.00' L	M-2-24-2	24" × 24"	10.0		17.0					1				1					
	S-92 S-93	STA. 99+55.88 STA. 99+55.88	43.00' L 43.00' L	M-5-24-2 IM-17	24" x 24" 24" x 12"								1				•					
	S-94 S-95	STA. 100+50.42 STA. 101+90.00	43.00' L 54.00' R	R-31C-48 R-31M-48	48" x 30" 48" x 30"	10.0		26.0 28.0					1				1					
	S-96 S-97	STA. 101+96.00 STA. 102+15.98	41.00' L 43.00' L	R-10-24 R-31C-48	24" x 30" 48" x 30"			13.0					1 1				1 1					 - - - - - - - -
	S-98	STA. 102+50.50	LT. & RT.	GH	108" x 60"										1							☐ MM
		STA. 102+50.50	LT. & RT.	GH	84" x 72"										1							-SUI
	S-100 S-101	STA. 102+50.50 STA. 102+50.00	LT. & RT. LT. & RT.	GH GH	108" x 72" 108" x 60"										1				45.0			SUB
	S-102	STA. 102+50.50	LT. & RT.	GH	108" × 60"								:						45.0			<u>0</u>
	S-103 S-104	STA. 102+50.50 STA. 103+37.00	LT. & RT. 54.00' R	GH R-31M-48	108" × 60" 48" × 30"	10.0		26.0											45.0			SIGNIN
		STA. 103+87.02 STA. 103+87.02	45.00' L 45.00' L	M-2-24-3 M-40-24	30" x 24" 24" x 12"			14.0					1 1				1					
128	S-107	STA. 807+88.17	19.00' L	R-1-48	48" × 48"			30.0					1				1					-
	S-108	STA. 807+88.17	19.00' L	R-41-36	36" x 36"			 REAL PROPERTY OF THE PROPERTY					1									
	S-109	STA. 807+90.00	42.00' R	R-43R-48	48" x 18"				17.0				1				1					
		STA. 807+90.00 STA. 807+90.00	42.00' R 42.00' R	R-43L-48 R-41B-36	48" x 18" 36" x 36"								1 1									
		STA. 808+97.94 STA. 809+50.00	17.00' L 14.00' L	R-41A-36 R-31F-48	36" × 24" 36" × 30"	7.5		28.5 30.0					1				1					
	S-115	STA. 809+50.00 STA. 814+00.00 STA. 814+00.00	35.00' R 14.00' L 35.00' R	R-31F-48 R-31F-48 R-31F-48	36" x 30" 36" x 30" 36" x 30"	7.5 7.5 7.5		29.0 29.0 30.0														
Mars	S-117	STA. 814+80.00	18.00° L	W-47-48	48" × 48"	16.0		 33.0														
		STA. 814+99.58	13.45' L	W-45-48	48" x 48"									1			1					 _
		STA. 813+30.00 STA. 814+75.00	35.00' L 35.00' L	W-53L-36 W-60L-36	36" x 36" 36" x 36"	9.0 9.0		16.0 16.0														<u>-</u>
100	S-122	STA. 813+30.00 STA. 814+75.00	15.00' R 15.00' R	W-53L-36 W-60L-36	36" x 36" 36" x 36"	9.0 9.0		16.0 16.0						4			1					
129	S-124	STA. 803+62.58 STA. 804+00.00 STA. 808+80.00	16.82' R 16.00' R 40.00' L	W-45-48 W-47-48 R-31N-48	48" x 48" 48" x 48" 48" x 30"	16.0 10.0		32.0 29.0														-
		STA. 808+80.00	22.00' R	R-31N-48	48" × 30"	10.0		29.0														 .65
	S-127	STA. 808+95.56 STA. 808+98.56	25.00' R 25.00' R	D-4C M-25-30	96" × 72" 30" × 24"	10.0	1	20.0			28.0		1			1		1		2	4	- 15.
	S-129	STA. 808+98.56 STA. 810+93.97	25.00' R 25.00' R	M-2-24-3 SPECIAL	24" × 24" 48" × 90"		1			30.0			1 1			1		1		2	4	061 -
	S-131	STA. 811+93.24	38.00' L	R-41A-36	36" x 24" 24" x 30"			14.5					1				1					 O. B.
	S-132 S-133 S-134	STA. 811+93.24 STA. 811+98.27 STA. 812+60.00 STA. 812+60.00	38.00' L 23.00' R 22.00' R 38.00' L	SPECIAL R-41A-36 R-31N-48 R-31N-48	24" x 30" 36" x 24" 48" x 30" 48" x 30"	10.0		30.0 30.0 29.0					1				1					
																						124
			TOTALS	S		168.0	2	643.0	17.0	30.0	28.0		20	3	3	2	13	2	135.0	4	8	124

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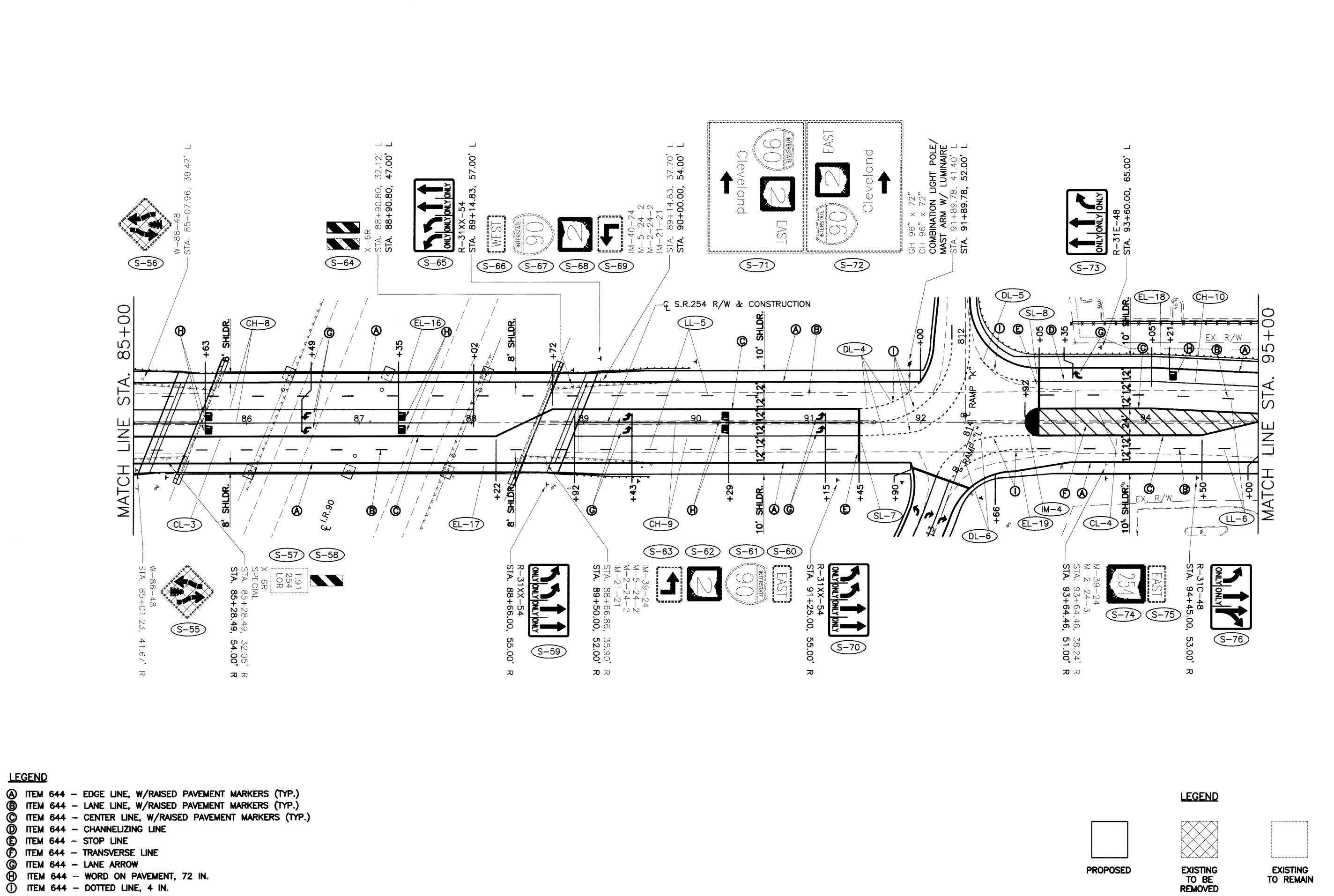


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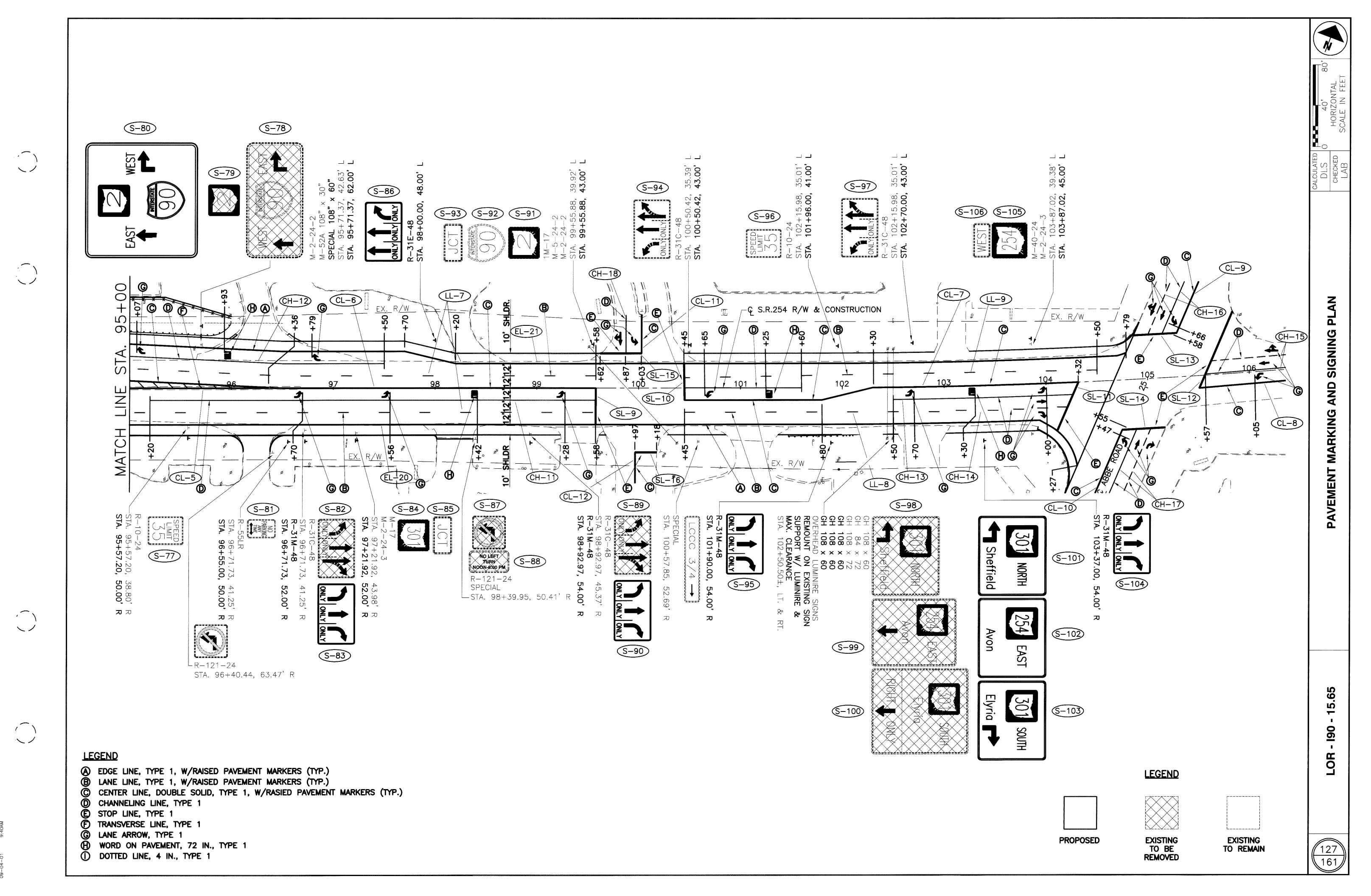
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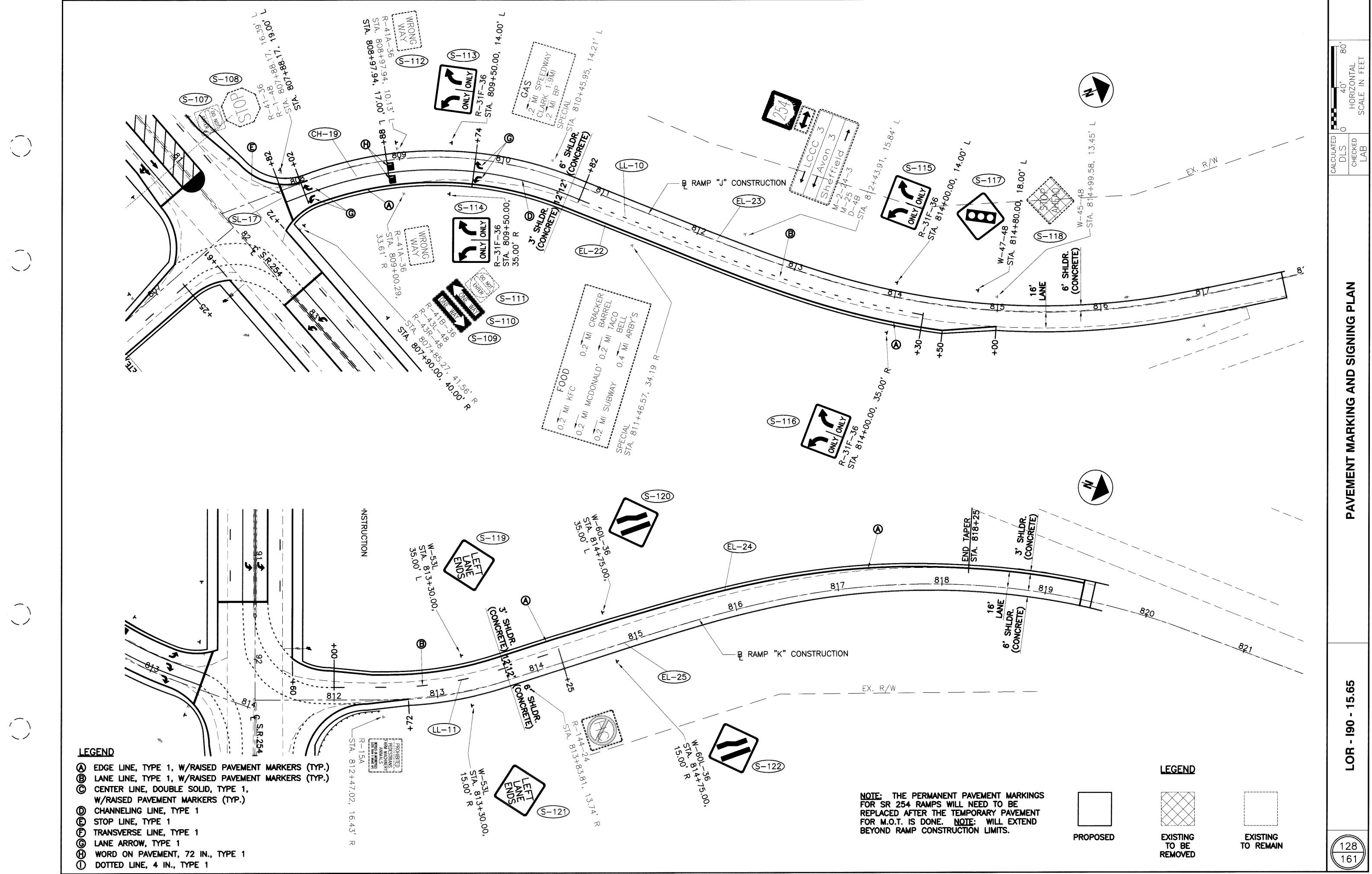
① ITEM 644 - DOTTED LINE, 4 IN.

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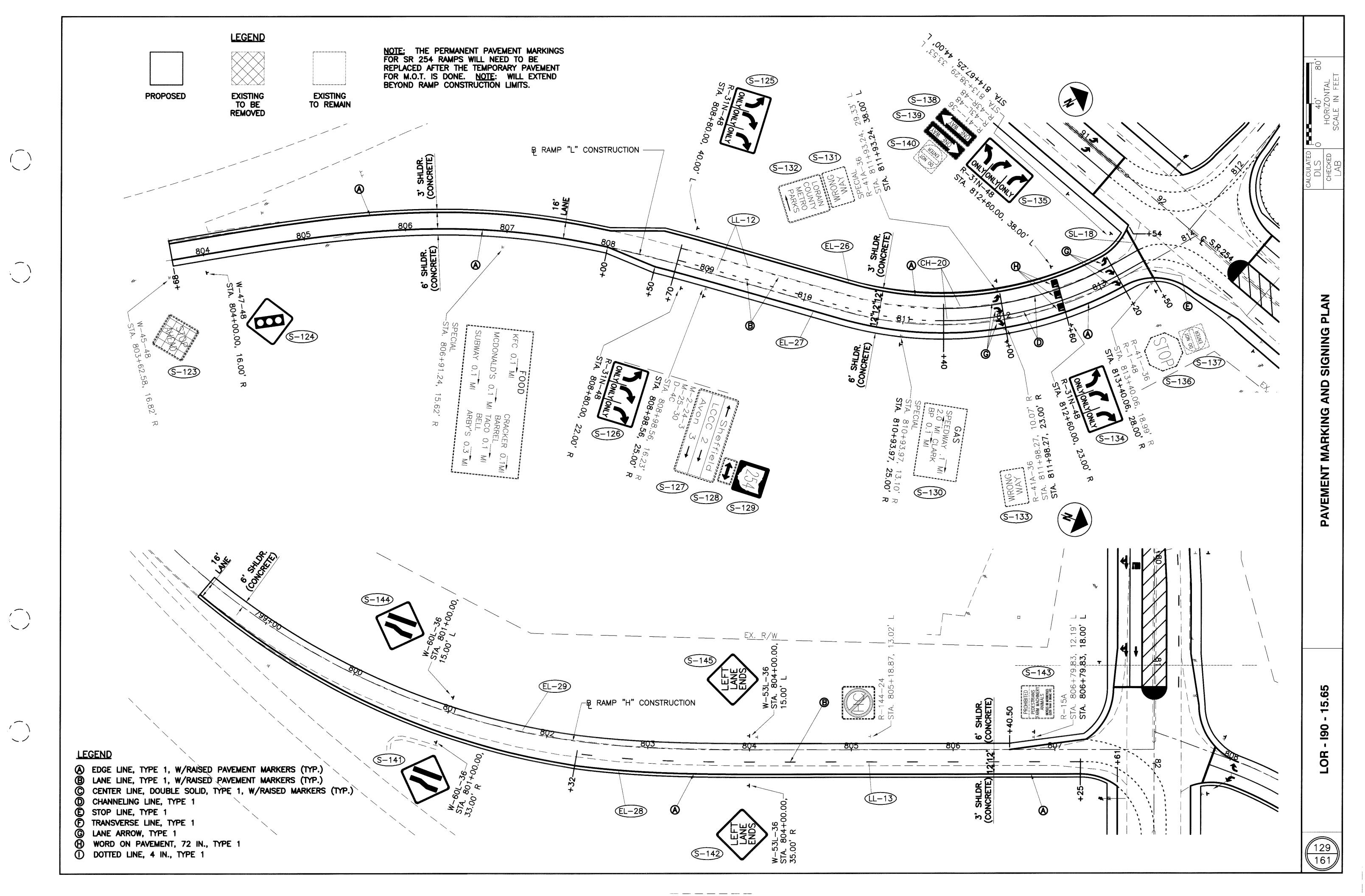
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TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS:

REFERENCES TO SUPPLEMENTAL SPECIFICATIONS 857, 858, 861, 957, 958 AND 961 ON THE STANDARD CONSTRUCTION DRAWINGS IN THESE PLANS SHALL BE CONSIDERED TO READ AS RESPECTIVE REFERENCES TO ITEMS 630, 631, 633, 730, 731 AND 733.

MAINTENANCE OF TRAFFIC STANDARD CONSTRUCTION DRAWINGS

REFERENCES TO SECTION 621, OR SUPPLEMENTAL SPECIFICATIONS 806, 847, 906, OR 947 ON THE STANDARD CONSTRUCTION DRAWINGS OR ELSEWHERE IN THESE PLANS SHALL BE CONSIDERED TO READ AS REFERENCES TO THE APPROPRIATE PORTIONS OF SECTIONS 641, 642, 643, 644. 645 AND 740.

REFERENCES TO ITEM 740.05, TYPE C AND ITEM 740.05, TYPE B ON THE STANDARD CONSTRUCTION DRAWINGS OR ELSEWHERE IN THESE PLANS SHALL BE CONSIDERED TO READ AS REFERENCES TO ITEM 740.06, TYPE I AND ITEM 740.06, TYPE II, RESPECTIVELY.

ITEM 632 - VEHICULAR SIGNAL HEAD, 3 & 4 SECTION, 12" LENS, 1 OR 2 WAY AS PER PLAN:

SECTION 732.01 OF THE SPECIFICATIONS IS MODIFIED FOR THIS PROJECT AS FOLLOWS:

- PROPOSED SIGNAL HEADS AND VISORS SHALL MEET I.T.E SPECIFICATIONS.
- GLASS LENSES SHALL BE USED.
- THE ENTRANCE FITTINGS SHALL BE OF THE TRI-STUD DESIGN WITH SERRATED RINGS IN ORDER TO ACHIEVE POSITIVE LOCKING.

ITEM 632 - STRAIN POLES, TYPE TC-81.10, AS PER PLAN

SIGNAL STRAIN POLES SHALL COMPLY WITH 732.11, EXCEPT THAT THE POLES SHALL BE SINGLE SECTION TRUE CONTINUOUS TAPERED TUBES AS SHOWN ON STANDARD CONSTRUCTION DRAWINGS TC-81.10. THE USE OF STRAIGHT SECTIONS WITH A TAPER EFFECT ACCOMPLISHED BY THE USE OF REDUCERS WILL NOT BE PERMITTED.

THE CONTRACTOR SHALL PROVIDE A SECURED DOME COVER OVER THE BASE PLATE BOLTS. THE COST OF THIS WORK SHALL BE INCLUDED IN "ITEM 632 - SIGNAL SUPPORT, TYPE TC-81.10, AS PER PLAN".

PAYMENT FOR "ITEM 632 SIGNAL SUPPORT, TYPE TC-81.10, AS PER PLAN" SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH.

ITEM 633 - CONTROLLER WORK PAD

REFERENCES TO ITEM 608 4" CONCRETE WALK FOR CONTROLLER WORK PADS ON THE STANDARD CONSTRUCTION DRAWINGS IN THESE PLANS SHALL BE CONSIDERED TO READ AS REFERENCES TO ITEM 633 CONTROLLER WORK PAD.

TEMPORARY MAINTENANCE OF TRAFFIC SIGNAL INSTALLATIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

- EXISTING SIGNAL INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST. MODIFY. ADD ONTO, OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED. MODIFIED. OR RESTORED TO ITS ORIGINAL CONDITION. AND THE WORK HAS BEEN ACCEPTED.
- FOR NEW OR REUSED SIGNAL INSTALLATIONS OR DEVICES. INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MUNICIPALITY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES OR MALFUNCTIONS. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS, AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER. WITH THE SIGNAL BACK IN SERVICE, WITHIN FOUR (4) HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE OR MALFUNCTION.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT, EXCEPT POLES AND CONTROL EQUIPMENT. SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, WITH THE SIGNAL BACK IN SERVICE, WITHIN EIGHT (8) HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE DAMAGE.

IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED EIGHT (8) HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENTS AS SOON AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OR MALFUNCTION OCCURS CONCURRENTLY AT ANY ONE LOCATION, THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE OR MALFUNCTION.

WHERE OUTAGES OR MALFUNCTIONS ARE THE DIRECT RESULT OF A VEHICULAR ACCIDENT, THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO OR CANNOT RESPOND TO AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION AT THOSE LOCATIONS WITHIN HIS RESPONSIBILITY, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15, AND ANY SUBSEQUENT BILLINGS TO THE STATE OR MUNICIPALITY FOR POLICE SERVICES AND/OR MAINTENANCE SERVICES BY MUNICIPAL FORCES OR OUTSIDE CONTRACTORS HIRED BY THE STATE OF MUNICIPALITY, SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE TO THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM.

WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 3 HOURS AND SHALL NOT INCLUDE THE HOURS OF (6:00 TO 9:00 AM, 12:00 TO 1:00 PM, AND/OR 4:00 TO 7:00 PM).

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING, WHICH WILL BE OUT OF OPERATION, SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.24.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

ITEM 632 - REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN

TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, PEDESTRIAN HEADS, CABLE SPAN WIRE, STRAIN POLES, CABINET, CONTROLLER, ETC. SHALL BE REMOVED IN ACCORDANCE WITH 632.25. THE CONTROLLER AND SPAN WIRE ASSEMBLIES ARE TO BE REMOVED AT EVERY INTERSECTION IN THE PROJECT. POLES AT EACH SPECIFIC INTERSECTION, ARE TO BE REMOVED AS INDICATED ON THE PLAN. OR AS DIRECTED BY THE ENGINEER. ALL POLE MOUNTED SIGNAL HEADS ARE TO BE REMOVED. TRAFFIC SIGNAL HEADS AND CONTROLLERS SHALL BE STORED IN A SECURE LOCATION AND SHALL BE PICKED-UP BY CITY FORCES. ALL OTHER REMOVED EQUIPMENT INCLUDING POLES. SPAN WIRE, SIGNAL WIRE AND STREET NAME SIGNS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS OTHERWISE NOTED ON THE PLANS

THIS ITEM SHALL ALSO INCLUDE REMOVING EXISTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

EXISTING TRAFFIC REGULATION SIGNS MOUNTED ON POLES TO BE REMOVED SHALL BE RELOCATED TO PROPOSED SIGNAL POLES OR NEW SIGN POSTS. THE LOCATION OF ALL RELOCATED SIGNS SHALL BE APPROVED BY THE ENGINEER.

PAYMENT FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS, INCLUDING REMOVING, STORING SIGNS AND RE-MOUNTING SIGNS AND REMOVING PAVEMENT MARKINGS SHALL BE AT THE CONTRACT UNIT PRICE BIN FOR "ITEM 632 - REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN." THE COST OF SIGN SUPPORT ASSEMBLIES AND GROUND MOUNTED SIGN SUPPORTS SHALL BE AS SPECIFIED HEREINBEFORE FOR THOSE ITEMS.

ITEM 633 - CONTROLLER, ACTUATED, 8 PHASE, SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING ACTUATED, SOLID STATE DIGITAL MICROPROCESSOR TYPE CONTROLLERS WITH SECONDARY COORDINATOR, MENU DRIVEN PROMPTS, INTERNAL TBC, TELEMETRY UNIT, BASE MOUNTED CABINET, AND ALL OTHER ACCESSORIES THAT ARE NECESSARY TO MAKE THE CONTROLLER COMPLETELY FUNCTIONAL AND OPERATIONAL AS SHOWN IN THE PLANS

THE CONTROLLER SHALL BE DELIVERED PRE-WIRED. THE LOCAL CONTROLLERS SHALL BE MADE BY THE SAME MANUFACTURER AS THE SYSTEM MASTER.

THE CONTROLLER AND CABINET SHALL CONFORM TO O.D.O.T. SPECIFICATION 633, 733.021, 733.031, 733.041, SHALL MEET NEMA TS-2 FOR TYPE 2 CONTROLLERS AND SHALL HAVE THE FOLLOWING FEATURES:

- 1. THE LOAD SWITCHES SHALL PROVIDE INPUT AND OUTPUT INDICATIONS.
- THE FOLLOWING SWITCHES SHALL BE ACCESSIBLE VIA THE POLICE PANEL DOOR:
 - SIGNAL SHUTDOWN
 - FLASH CONTROL
 - AUTOMATIC/MANUAL TRANSFER
 - MANUAL PUSHBUTTON AND 10' EXTENSION CORD.
- THE FOLLOWING SWITCHES SHALL BE MOUNTED ON THE SWITCH PANEL IN THE CABINET:
 - RUN/STOP TIMING
 - CONTROLLER TIMER POWER
 - DETECTOR TEST
 - COORDINATION/FREE
- 4. A SERVICE LAMP WITH DOOR ACTIVATED ON/OFF SWITCH.
- A TELEPHONE MODEM COMPLETELY WIRED TO REPORT CABINET FAILURES, DETECTOR FAILURES AND TRAFFIC COUNTS AT THOSE LOCATIONS SHOWN IN THE PLANS.
- THE CABINET EXTERIOR SHALL BE ALUMINUM WITH CLEAR COATED FINISH AND INTERIOR SHALL BE WHITE.
- 7. THE CABINET SHALL HAVE CORBIN LOCKS AND LIGHTNING
- THE CONTRACTOR SHALL FURNISH FOR APPROVAL A CABINET PLAN SHOWING COMPONENT PLACEMENT.

PAYMENT FOR 633 CONTROLLER, ACTUATED, 8 PHASE, SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN WILL BE MADE AT THE CONTRACT PRICE FOR EACH CONTROLLER IN PLACE, INCLUDING PRE-WIRED CABINET COMPLETELY INSTALLED. WIRED. TESTED AND ACCEPTED. PAYMENT SHALL BE FULL COMPEN-SATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TESTING, CERTIFICATIONS, AND OTHER INCIDENTALS NECESSARY TO FURNISH THE CONTROLLER, COMPLETE IN PLACE, INCLUDING ALL CONNECTIONS MADE AND WIRING COMPLETE, TESTED. AND ACCEPTED.

ITEM 632 - POWER SUPPLY

ELECTRIC POWER SHALL BE OBTAINED FROM THE APPROPRIATE UTILITY COMPANY AT THE LOCATIONS INDICATED ON THE PLANS. AS VERIFIED WITH THE UTILITY COMPANY. POWER SUPPLY SHALL BE 120 VOLT, UNMETERED, AS FURNISHED BY THE UTILITY COMPANY. PAYMENT SHALL BE FOR THE VARIOUS ITEMS, CONDUIT, CONDUIT RISER AND POWER CABLE.

SIGNALIZA

ITEM 633 - CONTROLLER, MASTER, TRAFFIC RESPONSIVE AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A SOLID-STATE DIGITAL MICROPROCESSOR TYPE TRAFFIC RESPONSIVE MASTER CONTROLLER WITH MENU DRIVEN PROMPTS, INTERNAL TBC, TELEMETRY UNIT, IN THE LOCAL CONTROLLER CABINET, AND ALL OTHER ACCESSORIES THAT ARE NECESSARY TO MAKE THE MASTER COMPLETELY FUNCTIONAL AND OPERATIONAL AS SHOWN IN THE PLANS. THIS ITEM SHALL ALSO INCLUDE THE EXTRA CABINET SPACE NECESSARY TO BE LOCATED IN THE LOCAL CONTROLLER CABINETS WHERE INDICATED IN THE PLANS. THE COST OF THE LARGER CABINETS ABOVE AND BEYOND THE COST OF THE STANDARD CABINET SHALL BE INCLUDED IN THE COST OF THE MASTER CONTROLLER.

THE MASTER CONTROLLER SHALL CONFORM TO O.D.O.T. SPECIFICATION 633 AND SHALL HAVE THE FOLLOWING FEATURES:

- IT SHALL GENERATE PATTERN COMMANDS TO LOCAL INTERSECTION CONTROLLERS WITHIN ITS CONTROL AREA IN RESPONSE TO PREVAILING TRAFFIC CONDITIONS AS INDICATED BY SAMPLING SENSORS STRATEGICALLY PLACED IN THE CONTROL AREA. THE MASTER SHALL ALSO ALLOW PRE-PROGRAMMED TIME OF DAY SELECTION OF PATTERNS.
- IT SHALL MONITOR THE OPERATION OF THE LOCAL INTERSECTION CONTROLLERS AND SHALL INITIATE FAILURE REPORTS IF MALFUNCTIONS ARE DETECTED. THE MASTER SHALL GENERATE SYSTEM OPERATION STATUS REPORTS FOR PRINTING AT THE CENTRAL OFFICE MONITOR.
- 3. IT SHALL BE CAPABLE OF OPERATING IN ANY OF THE FOLLOWING
 - TRAFFIC RESPONSIVE WHEREBY PATTERN SELECTION IS BASED ON DYNAMIC TRAFFIC CONDITIONS AS MEASURED BY SYSTEM SENSORS LOCATED IN THE CONTROL AREA.
 - TIME OF DAY/DAY OF WEEK WHEREBY PATTERN SELECTION IS BASED ON A PRE-PROGRAMMED BASIS WITH AUTOMATIC ADJUSTMENTS FOR SEASONAL CHANGES.
 - MANUAL OVERRIDE WHEREBY PATTERN SELECTION IS BASED ON OPERATOR COMMAND AT THE CENTRAL OFFICE MONITOR OR TRAFFIC RESPONSIVE MASTER CONTROLLER SITE.
- 4. IT SHALL BE MADE BY THE SAME MANUFACTURER AS THE LOCAL CONTROLLERS.

THE MASTER CONTROLLER SHALL HAVE THE FOLLOWING CAPACITIES:

- 1. TOTAL LOCAL INTERSECTION CONTROLLERS: 30
- 2. SYSTEM SENSOR DETECTOR UNITS:
- THERE SHALL BE A MINIMUM OF 30 SELECTABLE PATTERNS INCLUDING AN ADDITIONAL 4 SPECIAL PATTERNS. EACH PATTERN SHALL CONSIST OF A COMBINATION OF CYCLE, OFFSET AND SPLIT NUMBERS FOR EACH INTERSECTION IN THE SYSTEM. THE MASTER SHALL BE CAPABLE OF DIRECTING THE SYSTEM INTO FREE OPERATION. PATTERNS SELECTABLE FROM THE FOLLOWING **MINIMUM PARAMETER RANGES:**
 - A. CYCLES: SIX (6) OFFSETS: FIVE (5) SPLITS: SIXTEEN (16)
- 4. SYSTEM SENSORS SHALL BE DISTRIBUTED TO A MINIMUM CAPACITY OF EIGHT (8) PER INTERSECTION, BUT NOT TO EXCEED THE TOTAL SENSOR CAPACITY.

THE MASTER CONTROLLER SHALL HAVE THE FOLLOWING FUNCTIONAL REQUIREMENTS:

- 1. PATTERN SELECTION DURING NORMAL TRAFFIC RESPONSIVE OPERATION SHALL BE BASED ON THE FOLLOWING QUANTITATIVE TRAFFIC FLOW PARAMETERS:
 - VOLUME LEVEL OF ARTERIAL TRAFFIC FLOW.
 - DIRECTIONALITY OF ARTERIAL TRAFFIC FLOW.
 - RATIO OF ARTERIAL TRAFFIC FLOW TO NON-ARTERIAL
- PATTERN SELECTION DURING SPECIAL TRAFFIC RESPONSIVE OPERATION SHALL BE BASED ON THE FOLLOWING PARAMETERS:
 - A. NORMAL RESPONSIVE OPERATION OVERRIDE BY DETECTION OF HIGH OCCUPANCY ON SELECTED SYSTEM SENSORS.
 - NORMAL RESPONSIVE OPERATION OVERRIDE BY DETECTION OF QUEUE LENGTH OR DURATION ON SELECTED SYSTEM SENSORS.
- PREFERENTIAL TRANSFER OF PATTERNS SHALL BE ACCOMPLISHED BY PROGRAMMABLE THRESHOLD VALUES. PROGRAMMABLE THRESHOLD VALUES SHALL ALSO BE PROVIDED FOR SPECIAL PATTERNS.

- 3. PREFERENTIAL TRANSFER OF PATTERNS SHALL BE ACCOMPLISHED BY PROGRAMMABLE THRESHOLD VALUES. PROGRAMMABLE THRESHOLD VALUES SHALL ALSO BE PROVIDED FOR SPECIAL PATTERNS.
- 4. THE FOLLOWING SYSTEM SENSOR DATA SHALL FORM THE BASIS FOR ALL RESPONSIVE PATTERNS INITIATED BY THE MASTER:
 - VOLUME. OCCUPANCY AND QUEUE DATA.
 - EACH SYSTEM SENSOR SHALL BE CAPABLE OF SELECTIVE
 - SYSTEM SENSOR DATA SHALL BE AVERAGED ON A MOVING BASIS. UTILIZING A USER PROGRAMMABLE TIME FACTOR.
 - EACH SYSTEM SENSOR SHALL BE MONITORED FOR CONSTANT CALL, ABSENCE OF CALL AND ERRATIC OUTPUT. THERE SHALL BE AN OPTION TO ELIMINATE THE MONITORING OF ABSENCE OF CALLS DURING LIGHT TRAFFIC PERIODS ON A TIME OF DAY BASIS. SENSORS WHICH FAIL ANY MONITORING TEST SHALL BE AUTOMATICALLY DELETED FROM VOLUME AND OCCUPANCY CALCULATIONS. UPON RESUMPTION OF SATISFACTORY OPERATION, SENSORS SHALL AUTOMATICALLY RESUME INPUT TO VOLUME AND OCCUPANCY CALCULATIONS. A USER PRESCRIBED MINIMUM NUMBER OF DESIGNATED SENSORS SHALL BE REQUIRED TO MAINTAIN RESPONSIVE OPERATION. THE MINIMUM NUMBER OF OPERATIONAL SENSORS SHALL BE PROGRAMMABLE FOR EACH COMPUTATIONAL CHANNEL. IF FEWER THAN THE PRESCRIBED NUMBER OF SYSTEM SENSORS ARE OPERATIONAL. THEN THE MASTER SHALL REVERT TO THE TIME OF DAY, DAY OF WEEK MODE.
 - EACH COMPUTATIONAL CHANNEL SHALL BE ASSIGNED FROM UP TO TWELVE (12) DIFFERENT SYSTEM SENSORS FROM THE TOTAL OF 48.
- 5. IT SHALL BE POSSIBLE TO SELECT ANY SYSTEM PATTERN FROM THE MASTER ON A PRE-PROGRAMMED TIME OF DAY, DAY OF WEEK BASIS. THERE SHALL BE TIME OF DAY OVERRIDE OF RESPONSIVE OPERATION. TIME OF DAY OPERATION SHALL UTILIZE A 99 YEAR CALENDAR-CLOCK WITH AUTOMATIC DAYLIGHT SAVINGS TIME CHANGE.
- MEANS SHALL BE PROVIDED TO ALLOW INTER-MASTER LINKING IN ORDER TO AFFORD COORDINATION BETWEEN CONTIGUOUS SYSTEM CONTROL AREAS. THIS SHALL INCLUDE SYNCHRONIZATION OF MASTER REFERENCE CLOCKS.
- PATTERN CHANGES FOR EACH LOCAL CONTROLLER IN THE SYSTEM SHALL BE IMPLEMENTED SMOOTHLY AND IN THE SHORTEST TIME FRAME POSSIBLE WITHOUT VIOLATING MINIMUM INTERVAL VALUES.
- 8. THE MASTER CONTROLLER SHALL STORE AND FORMAT MONITORED FUNCTION DATA FOR EITHER IMMEDIATE OUTPUT TO THE CENTRAL OFFICE MONITOR OR SHALL STORE DATA FOR FUTURE OUTPUT FOR A MINIMUM STORAGE PERIOD OF FORTY-EIGHT HOURS. AS A MINIMUM THE FOLLOWING REPORTS SHALL BE INCLUDED:
 - A. AN ACTIVITY LOG WHICH INCLUDES TIME, INTERSECTION AND ACTIVITY TYPE OF ALL MONITORED LOCAL INTERSECTION FAILURE CONDITIONS.
 - B. A SYSTEM SENSOR FAILURE LOG WHICH INCLUDES TIME, SENSOR LOCATION AND TYPE OF FAILURE.
 - C. A PATTERN CHANGE LOG WHICH INCLUDES THE OPERATING PATTERN AND THE TIME OF CHANGE WHILE IN THE RESPONSIVE MODE.
 - D. A SYSTEM STATUS REPORT WHICH SHOWS THE CURRENT OPERATING MODE AND PATTERN FOR ALL LOCAL INTERSECTION CONTROLLERS ON LINE.
 - E. A SYSTEM SENSOR DATA REPORT WHICH INCLUDES VOLUME, OCCUPANCY AND AVERAGE SPEED FOR ALL SYSTEM SENSORS.

PAYMENT FOR 633 CONTROLLER, MASTER SOLID STATE DIGITAL MICROPROCESSOR, TRAFFIC RESPONSIVE, AS PER PLAN WILL BE MADE AT THE CONTRACT PRICE FOR EACH CONTROLLER IN PLACE, COMPLETELY INSTALLED IN THE LOCAL CONTROLLER SHOWN IN THE PLANS, WIRED, TESTED, AND ACCEPTED.

ITEM 632 - INTERCONNECT CABLE, AS PER PLAN

INTERCONNECT CABLE SHALL BE 6 PAIR, NO. 19 AWG, SOLID, REA PE-39 (UNDERGROUND) OR PE-38 (SELF-SUPPORTING OVERHEAD). OVERHEAD CABLE SHALL BE INSTALLED ON EXISTING POLES OWNED BY OHIO EDISON AS FOLLOWS:

1. INTEGRAL MESSENGER TYPE INTERCONNECT CABLE SHALL MEET THE REQUIREMENT OF 732.19 AND REA (PE-39). UNDER THIS METHOD ANY SECTION OF CABLE SHOWN ON THE PLANS TO BE CONTAINED IN CONTROLLERS. POLES. CONDUITS OR SUPPORTED ON MESSENGER WIRE INSTALLED FOR OTHER PURPOSES SHALL HAVE THE SUPPORTING MESSENGER AND JACKET WEB NEATLY REMOVED BY THE USE OF A TOOL SPECIFICALLY DESIGNED AND SIZED FOR THIS PURPOSE. DEVIATIONS FROM THE CABLE ROUTING SHOWN ON THE PLANS, FOR THE SOLE PURPOSE OF REDUCING THE AMOUNT OF MESSENGER TO BE REMOVED, WILL NOT BE PERMITTED. THE CABLE SHALL BE INSTALLED WITH APPROXIMATELY ONE TWIST FOR EACH 15 FEET OF SPAN LENGTH.

SPLICES SHALL OCCURE ONLY AT THE TERMINAL ENDS OF THE HARDWARE INTERCONNECT PANEL. NO OTHER SPLICE LOCATIONS SHALL BE PERMITTED.

- 2. PRUNING OF TREES IN ACCORDANCE WITH LA-1 TO PREVENT CONTACT WITH INTERCONNECT CABLE SHALL BE INCIDENTAL TO THE COST OF THE BID ITEM.
- 3. OVERHEAD INTERCONNECT CABLE SHALL BE INSTALLED AT A MINIMUM OF 18 FEET ABOVE ALL ROADWAY CROSSINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- 4. WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REMOVE EXISTING INTERCONNECT CABLE PRIOR TO INSTALLING NEW CABLE.

PAYMENT FOR ALL LAVOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS. INCLUDING TREE PRUNING. REMOVING AND DISPOSING OF EXISTING INTERCONNECT CABLE SHALL BE INCLUDED IN THE CONTRACT LINEAR FOOT PRICE BID FOR "ITEM 632 - INTERCONNECT CABLE, MESSENGER WIRE TYPE, 6 PR. NO. 19 AWG, SOLID, REA (PE-38), AS PER PLAN" AND "ITEM 632 - INTERCONNECT CABLE, WIRE TYPE, 6 PR, NO. 19 AWG, SOLID, REA (PE-39), AS PER PLAN".

ITEM 632 - PHONE DROP, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF SUPPLYING A PHONE DROP TO THE MASTER CONTROLLERS AT THE FOLLOWING INTERSECTION: SR-254 AT I-90 (SOUTHEAST CORNER OF WESTBOUND ENTRANCE RAMP)

IT SHALL INCLUDE CONDUIT RISER (WHERE REQUIRED), SHIELDED 2 CONDUCTOR CABLE, LIGHTNING ARRÈSTOR AND CABINÉT TERMINALS TO COMPLETELY WIRE TO THE TELEPHONE MODEM. CONDUIT AND TRENCH BETWEEN THE CONTROLLER AND THE TELEPHONE SERVICE LOCATION SHALL BE INCLUDED IN THIS ITEM. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY TO VERIFY THE LOCATION SHOWN ON THE PLANS AND HAVE TELEPHONE SERVICE DROP INSTALLED.

TELEPHONE SERVICE SHALL BE PAID BY THE CONTRACTOR UNTIL THE SYSTEM IS ACCEPTED.

PAYMENT FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS, INCLUDING TEMPORARY TELEPHONE SERVICE, CONDUIT AND TRENCH, SHALL BE AT THE CONTRACT UNIT PRICE BID FOR "ITEM 632 - PHONE DROP, AS PER PLAN".

SCHEDULING OF DETECTOR LOOP INSTALLATION AND INSTALLATION OF PAVEMENT MARKINGS

THE CONTRACTOR SHALL SCHEDULE HIS WORK, AND THAT OF HIS SUBCONTRACTORS, TO ENSURE THAT DETECTOR LOOP INSTALLATION PAVEMENT CUTTING, (INCLUDING THE INSTALLATION OF LOOP DETECTOR WIRES. AND SEALING OF THE LOOP DETECTOR SLOTS) IS COMPLETED PRIOR TO THE INSTALLATION OF THE VARIOUS PAVEMENT MARKINGS TO BE INSTALLED IN THE SAME LOCATIONS (SUCH AS STOP LINES, CROSSWALK LINES, WORDS ON PAVEMENT AND LANE ARROWS). HE SHALL FURTHER INSURE THAT THE PAVEMENT MARKINGS ARE INSTALLED AS SOON AS PRACTICABLE AFTER THE SURFACE COURSE IS INSTALLED AND THE ROAD IS READY TO OPEN TO TRAFFIC.

TEMPORARY SIGNAL TIMING FOR NEW TRAFFIC SIGNALS

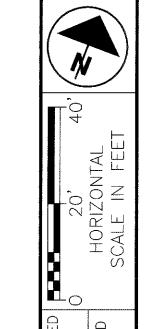
AS EACH NEW TRAFFIC SIGNAL INSTALLATION IS ENERGIZED, THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN INTERNAL "TIME BASED COORDINATION" BETWEEN ALL OF THE NEW CONTROLLERS UNTIL THE INTERCONNECT CABLE IS IN PLACE AND THE CONTROLLER(S) IS BROUGHT "ON LINE" WITH THE SYSTEM MASTER CONTROLLER.

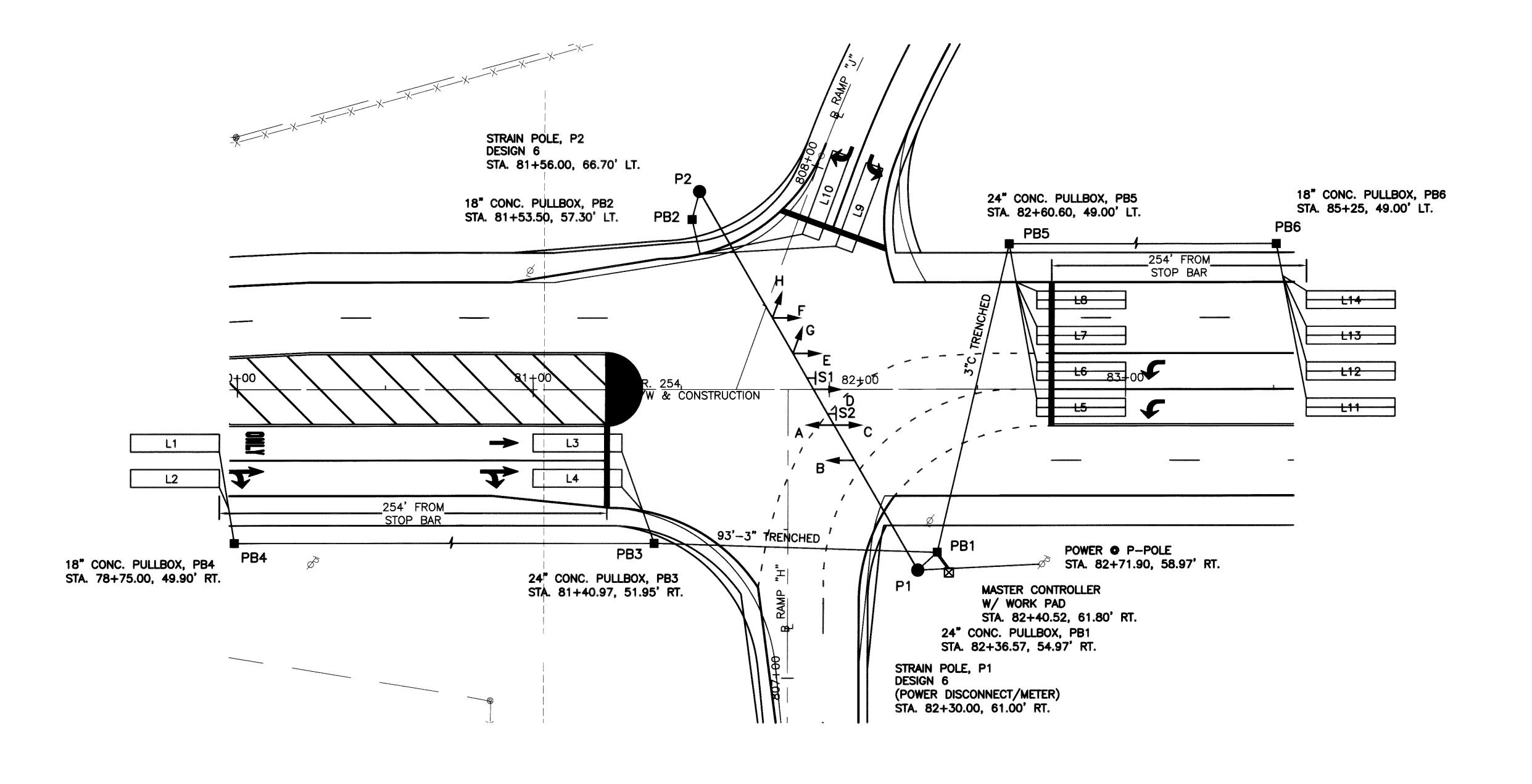
EACH INDIVIDUAL CONTROLLER SHALL OPERATE IN ACCORDANCE WITH THE COORDINATION TIMING CHART (CYCLE LENGTH, PHASE SPLITS, AND OFFSETS) SHOWN ON THE INTERSECTION PLAN SHEET FOR THE SPECIFIC INTERSECTION CONTROLLER. THE CONTROLLER SHALL OPERATE IN A TIME OF DAY MODE.

THE TIME BETWEEN ACTIVATING A NEW SIGNAL AND THE INSTALLATION AND OPERATION OF THE SIGNAL LOOP DETECTORS SHALL BE KEPT TO A MINIMUM.

THE COST OF THIS WORK SHALL BE CONSIDERED TO BE INCIDENTAL TO THE COST OF THE CONTROLLER PAY ITEM. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR TO PERFORM THIS WORK.



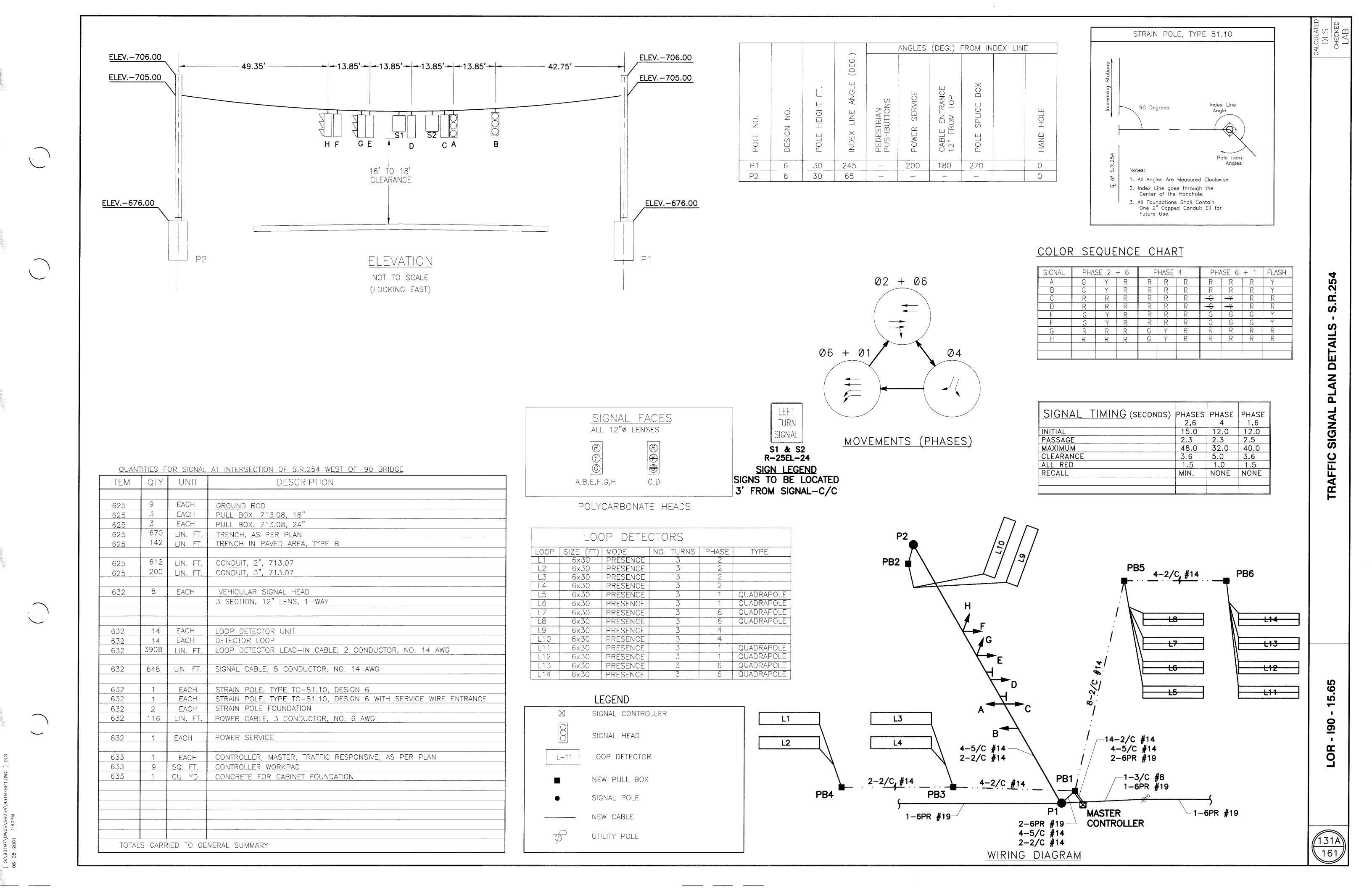


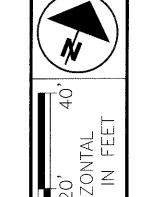


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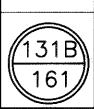
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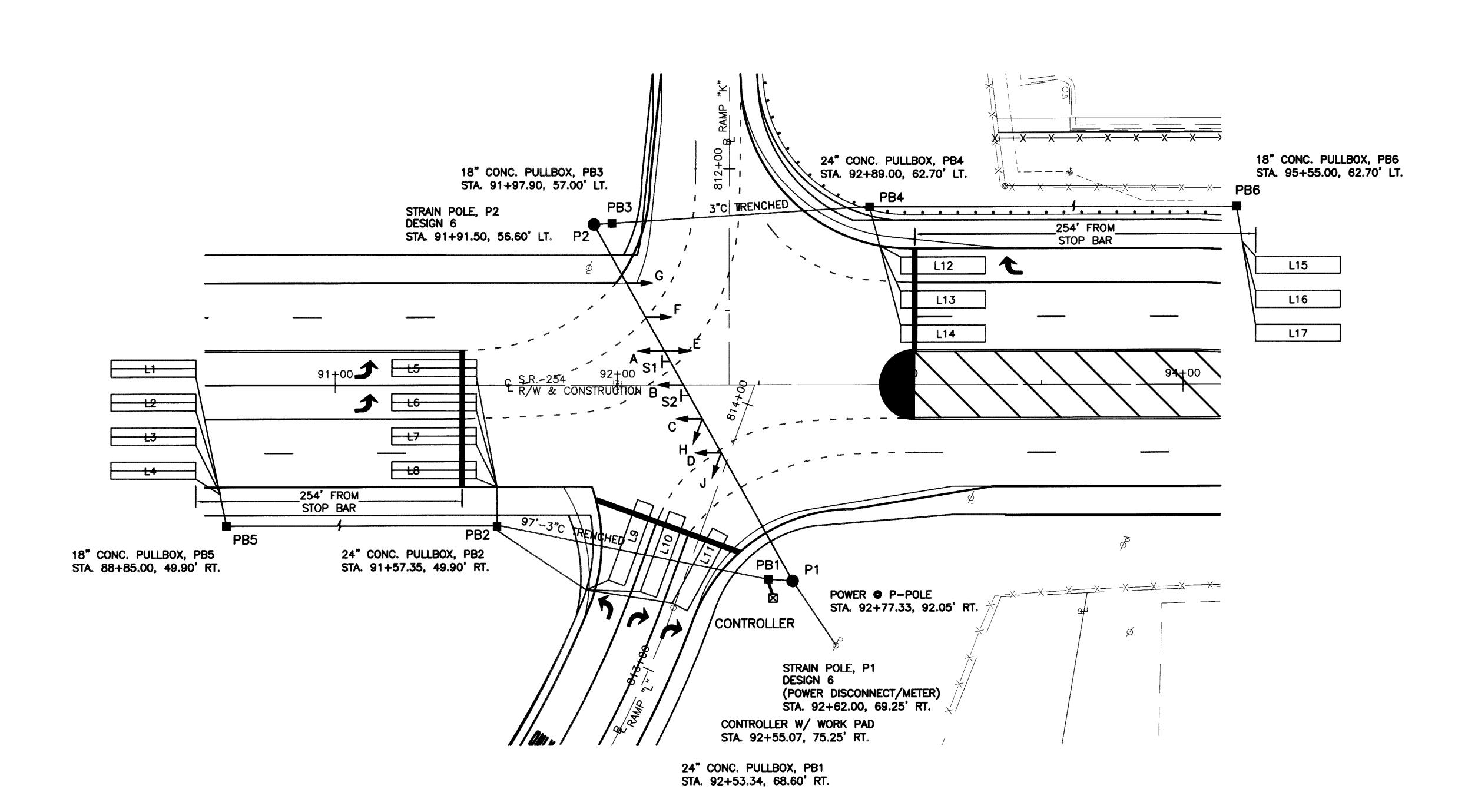
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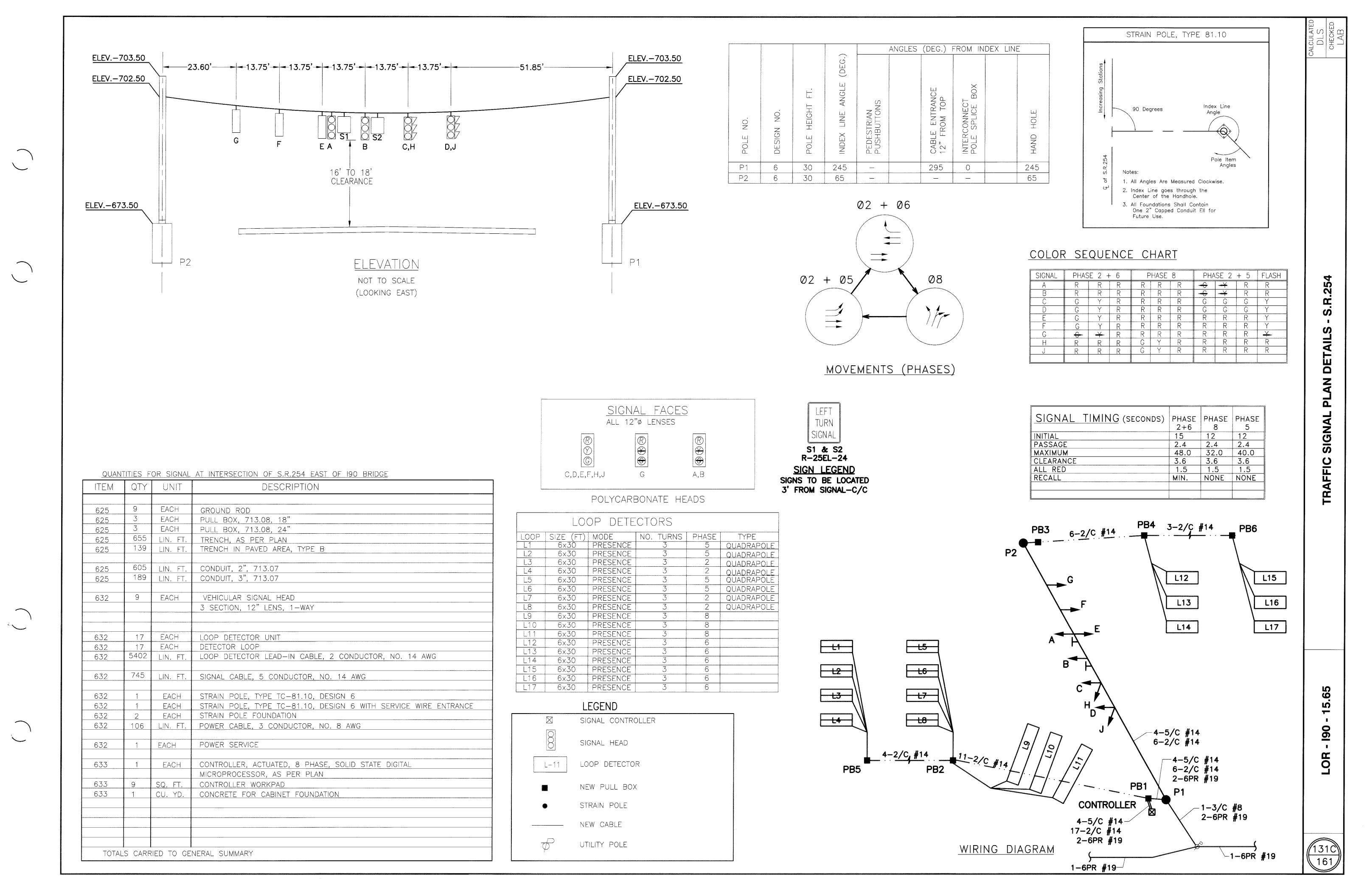


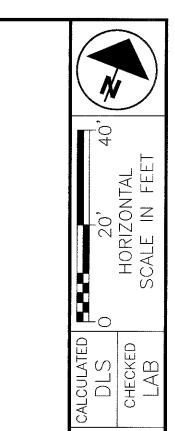


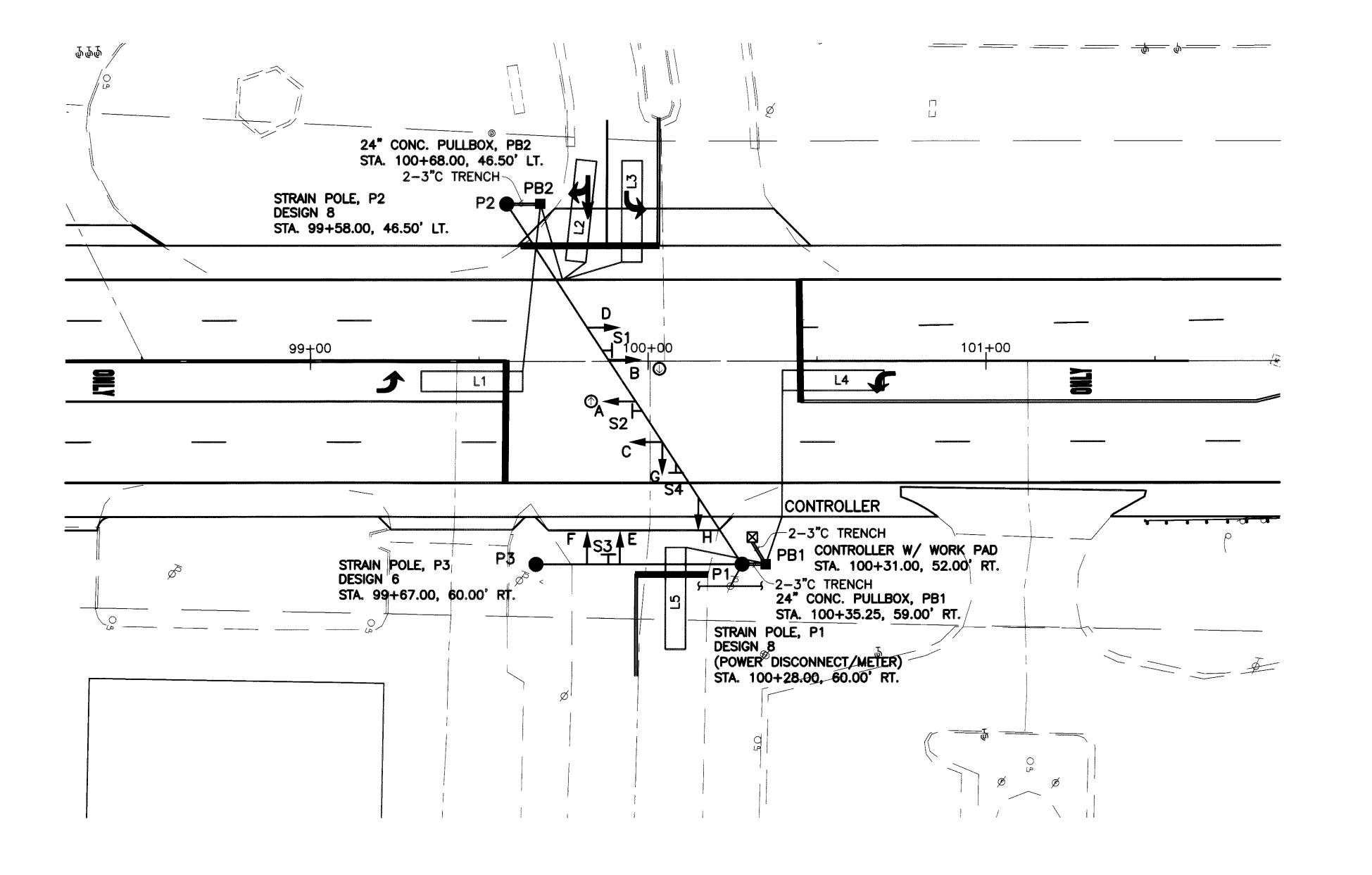
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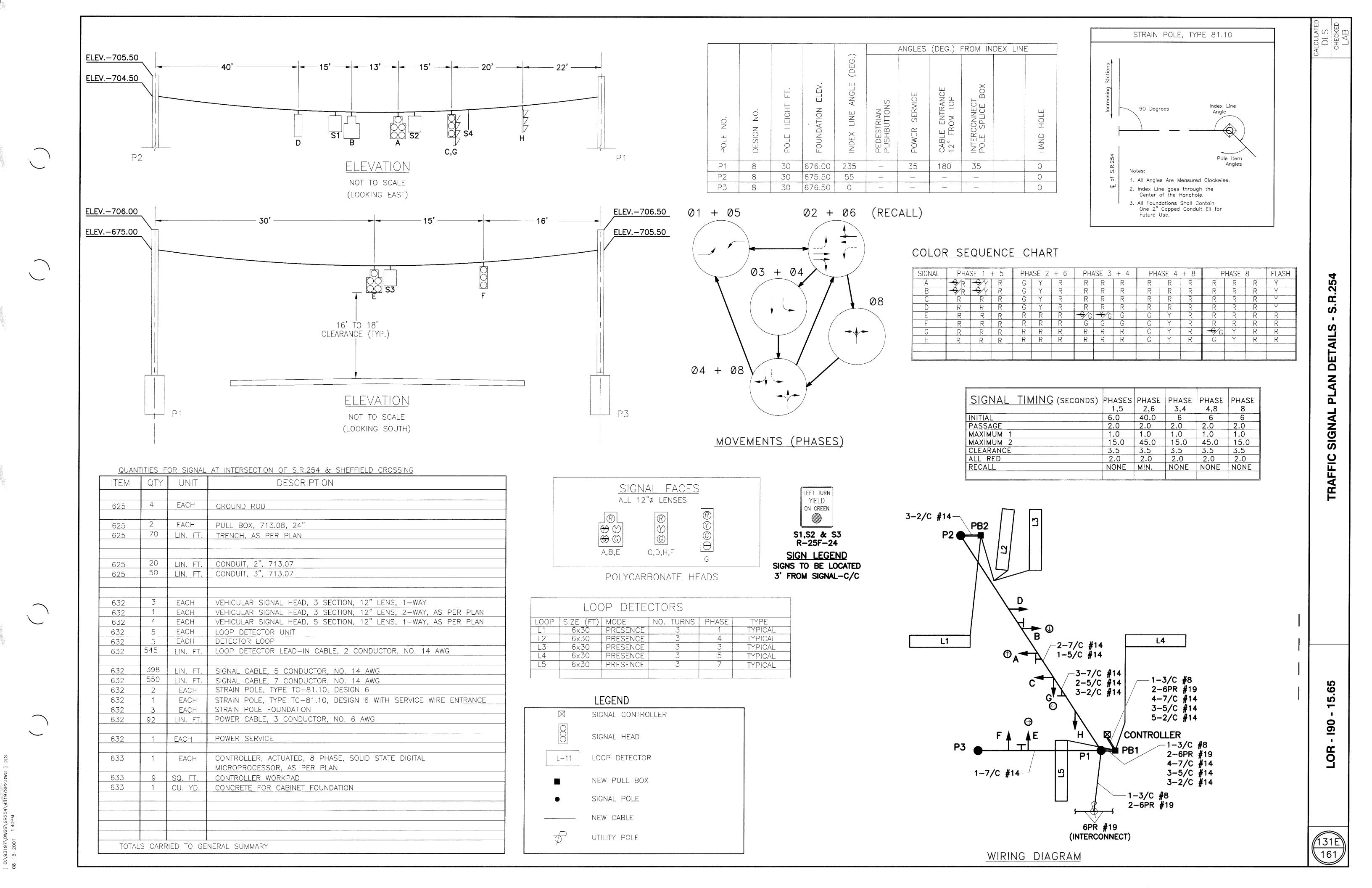




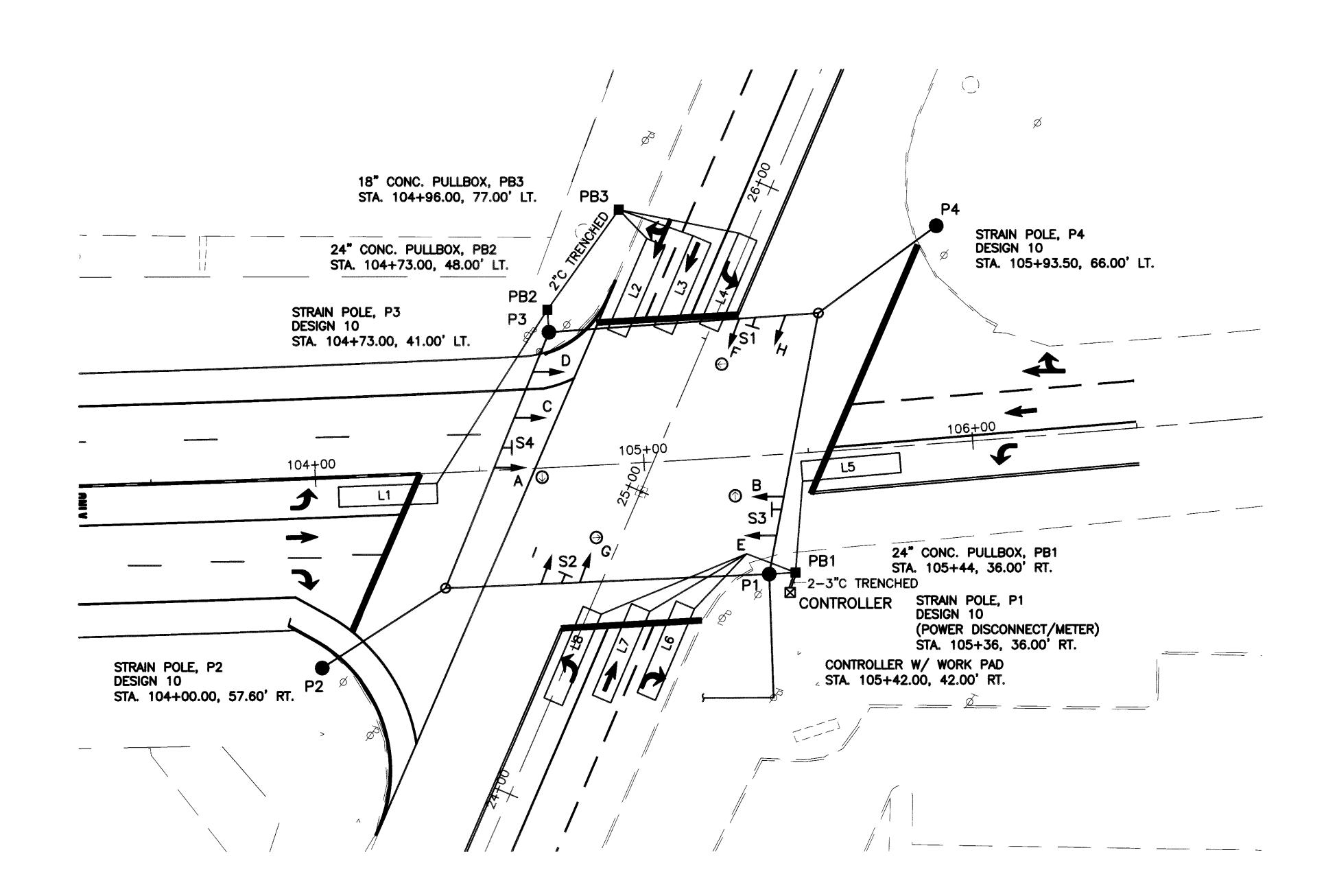


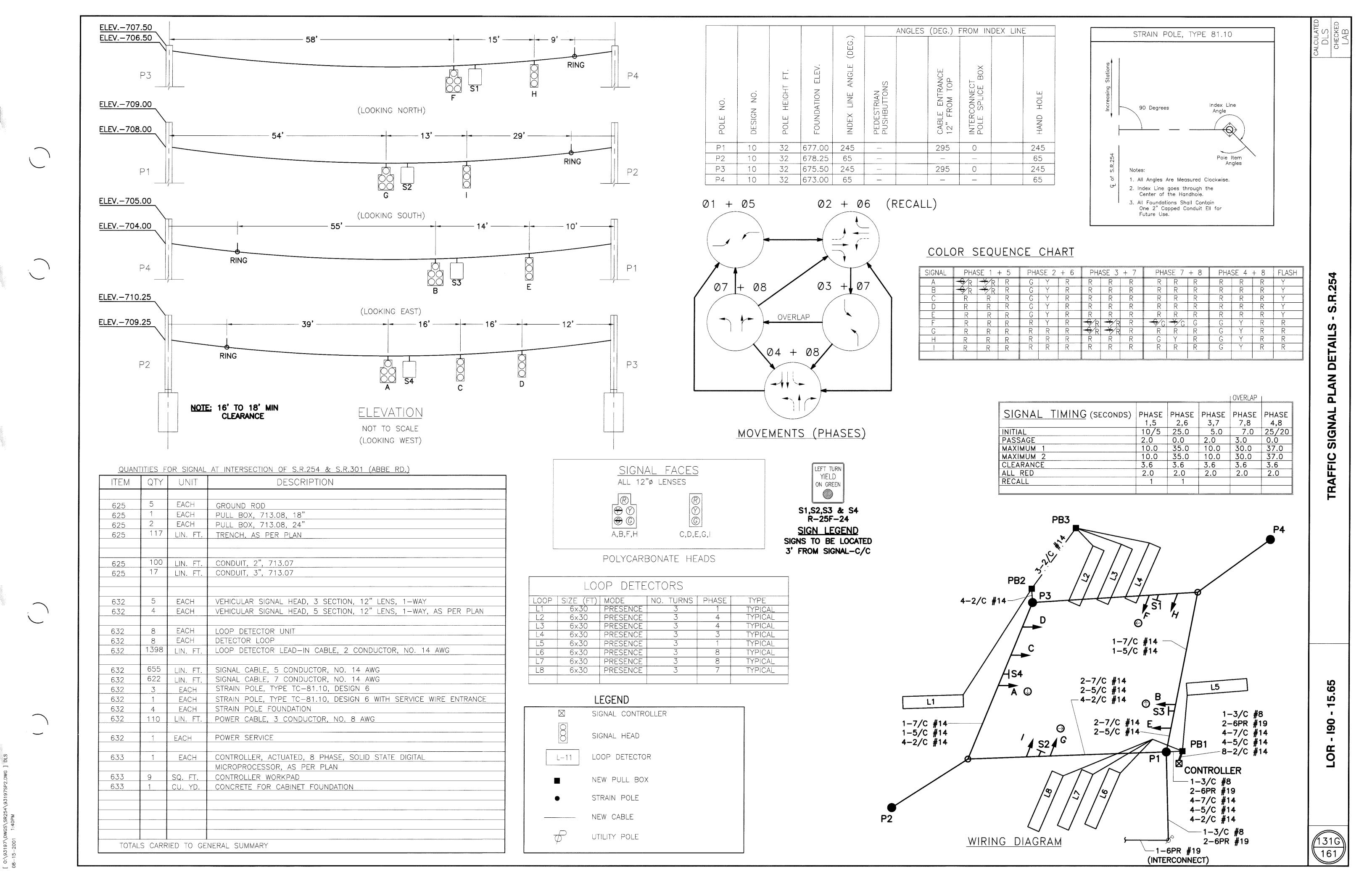
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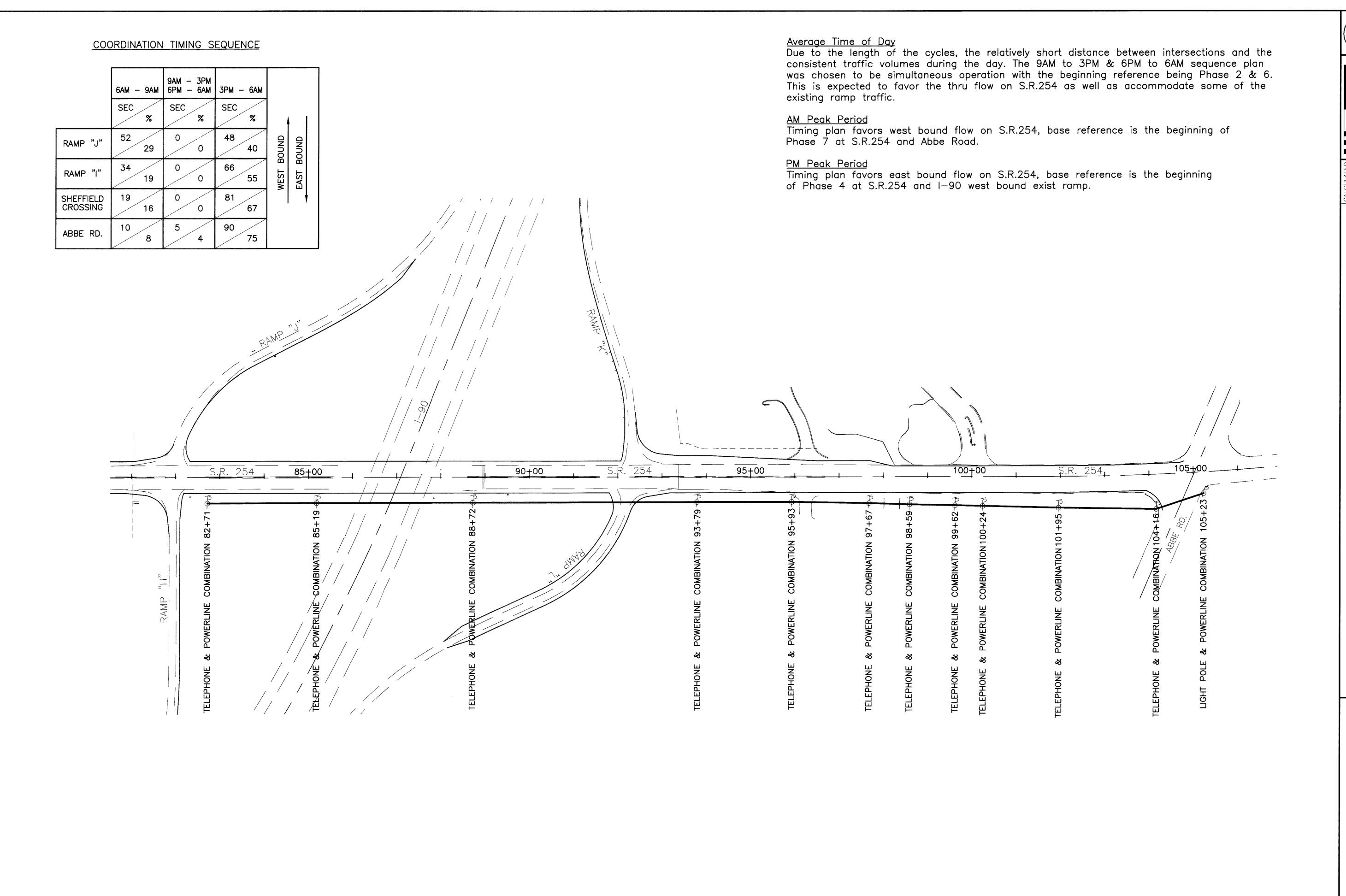
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PASSER II-90

HORIZONTAL SCALE 1 INCH = 30 SECS (1 inch = 10 characters)

VERSION 2.0

11/28/00 CYCLE = 100 SECONDS

MULTIPHASE ARTERIAL PROGRESSION PROGRAM

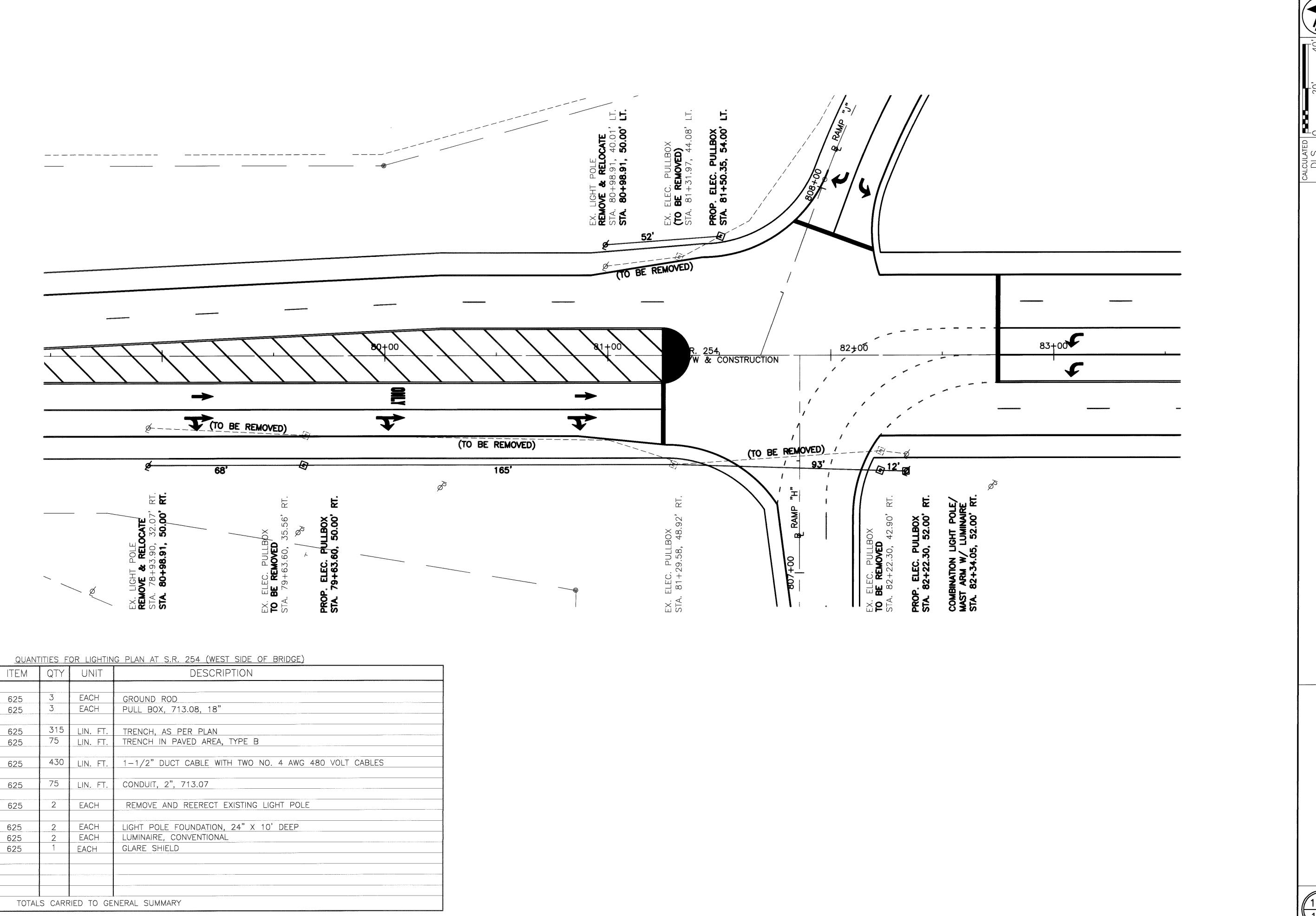
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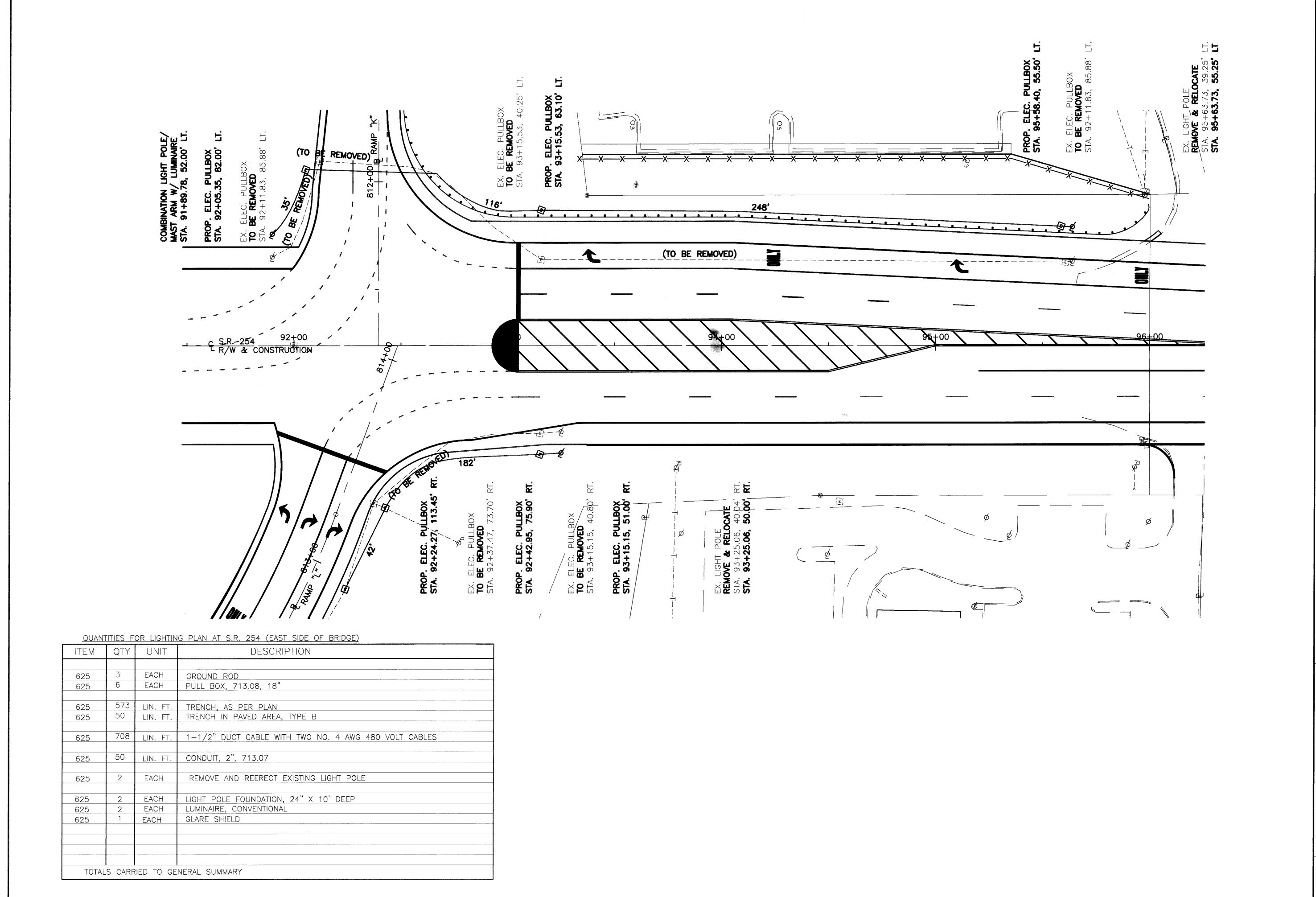
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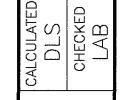


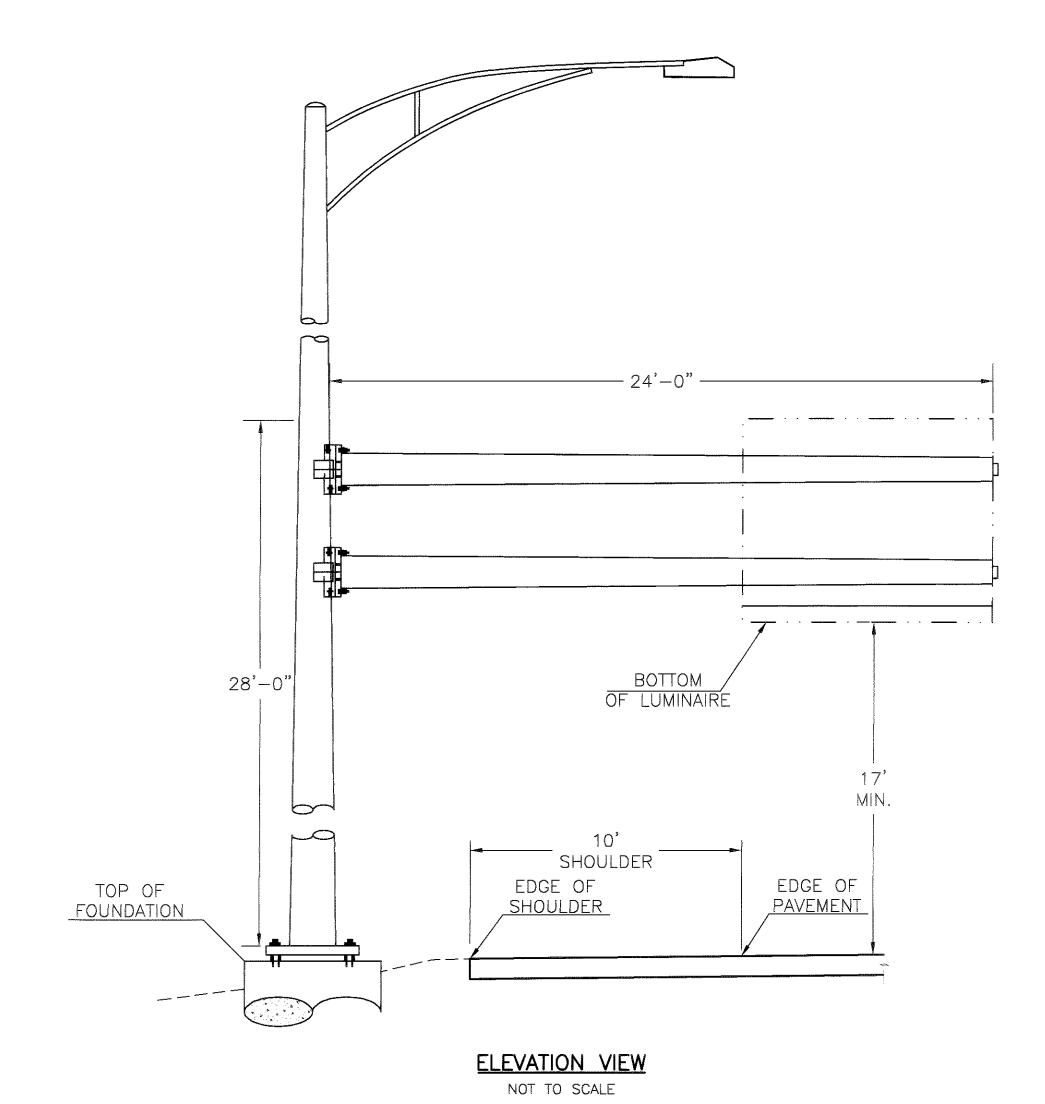
S.R.254 LIGHTING



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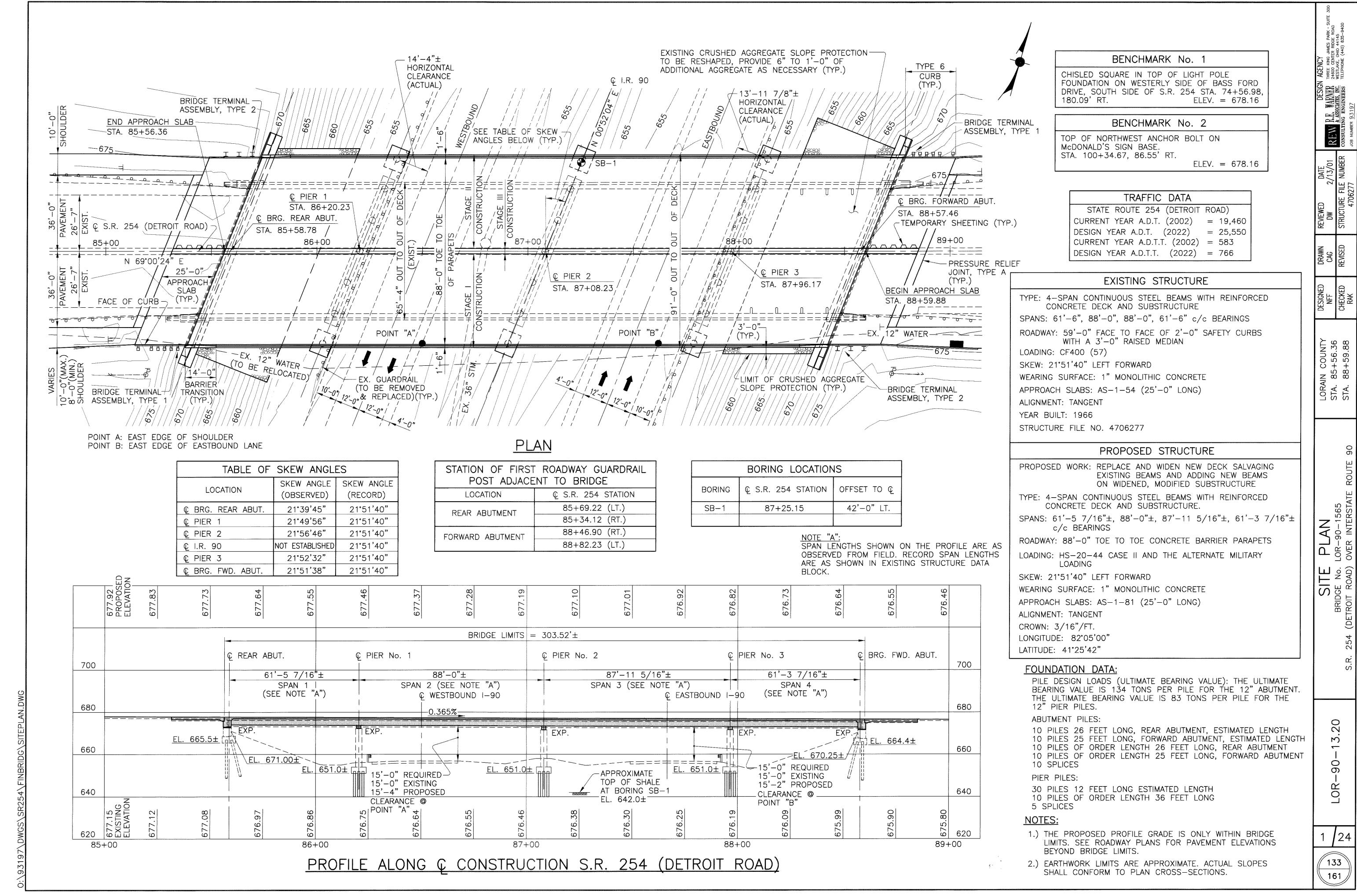


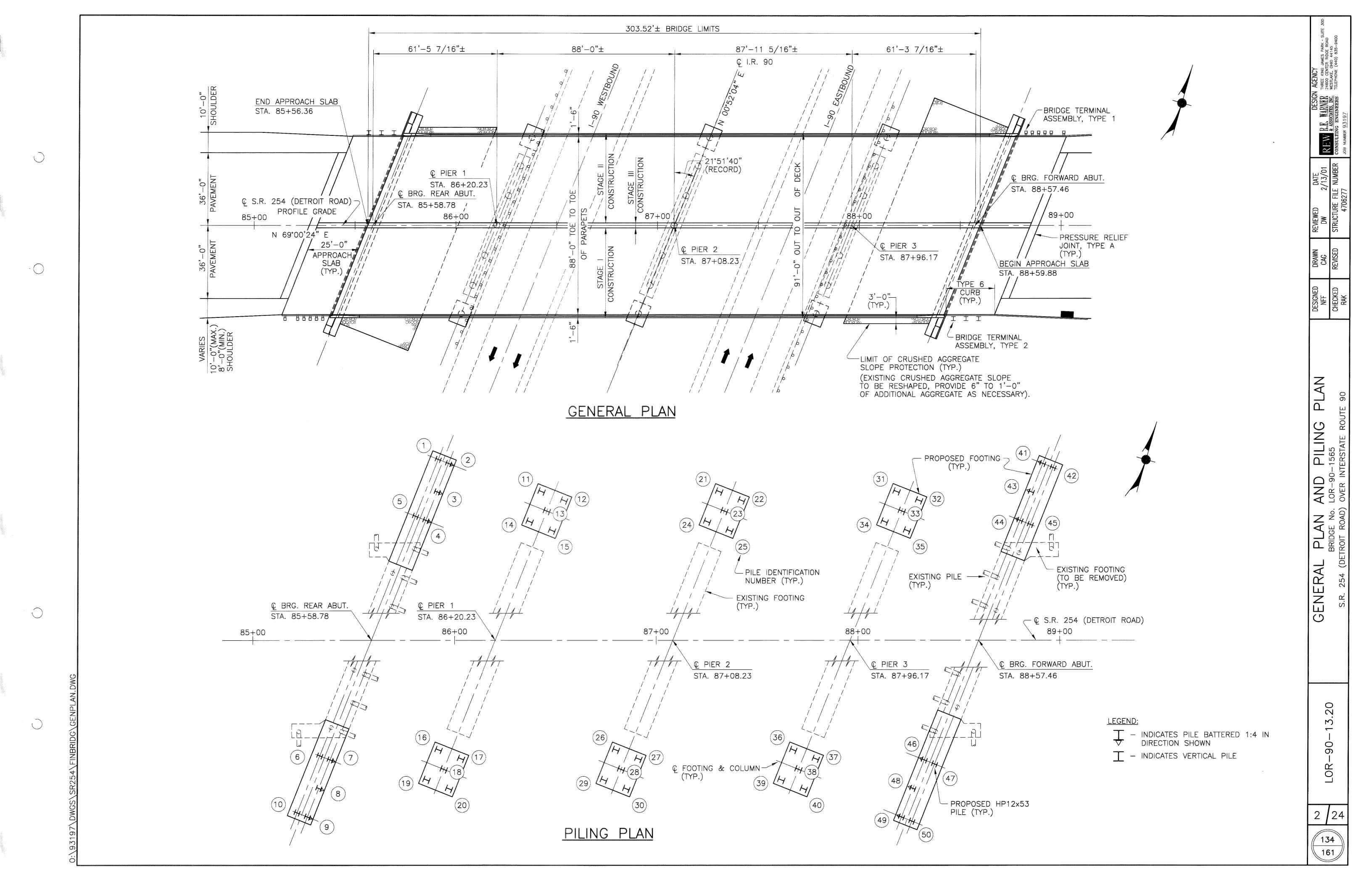
CANTILEVE	R OVER	HEAD SI	GN SUF	PORT	
LOCATION	TC-12.30, DESIGN 7 OVERHEAD SIGN SUPPORT W/ COMBINATION LIGHTING	ELEV. – TOP OF FOUNDATION	ELEV BOTTOM OF SIGN	ELEV. — EDGE OF SHOULDER	ELEV. — EDGE OF PAVEMENT
STA. 82+34.05, 52' RT.	1	676.00	695.19	677.77	678.19
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ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	REAR ABUTMENT	FORWARD ABUTMENT	PIERS	SUPER- STRUCTURE	GENERAL	SHEET N
202	11203	LUMP	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN						4,8,13,15
	44400									
503	11100	LUMP	LUMP	COFFERDAMS, CRIBS AND SHEETING	004	004	475			A
503	21101	737	CU. YD.	UNCLASSIFIED EXCAVATION, AS PER PLAN	281	281	175			4
505	11100	LUMP	LUMP	PILE DRIVING EQUIPMENT MOBILIZATION						
507	00200	870	LIN. FT.	STEEL DILES LID19V53 - EUDNICHED	260	250	360			
		+		STEEL PILES HP12X53, FURNISHED						
507	00250	770	LIN. FT.	STEEL PILES HP12X53, DRIVEN	240	230	300			-
507	50500	15	EACH	STEEL PILES SPLICES	5	5	5			
507	93301	50	EACH	STEEL POINT (OR SHOE), AS PER PLAN	10	10	30			4
509	20001	200	POUND	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	And the second s				200	4
512	33000	6	SQ. YD.	TYPE 2 WATERPROOFING	3	3				
										Ambient de la company de la co

516	13900	54	SQ. FT.	2" PREFORMED EXPANSION JOINT FILLER	26	28				
516	44101	24	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (8 1/2"X12"X 2.52")*	12	12	<u></u>			18
516	44101	24	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (12"X19"X 2.74")*			24			18
516	44101	12	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"X19"X 2.84")*			12			18
516	47001	LUMP	LUMP	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN						4
E10	21270	LUMD	LIMD	DODOUS BACKELL WITH EUTED EADDIC						
518	21230	LUMP	LUMP	POROUS BACKFILL WITH FILTER FABRIC	110	110			**************************************	
518	40000	236	LIN. FT.	6" PERFORATED CORRUGATED PLASTIC PIPE	118	118				
518;	40010	30	LIN. FT.	6" NON — PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	15	15				
PECIAL	51912600	25	LIN. FT.	CONCRETE REPAIR BY EPOXY INJECTION			25			
601	20000	530	SQ. YD.	CRUSHED AGGREGATE SLOPE PROTECTION	265	265				
015	00050	41.600		CUDEACE DDEDADATION OF EVICTING CTEEL CYCTEM CZELL				41 600		
815	00050	41,600	SQ. FT.	SURFACE PREPARATION OF EXISTING STEEL, SYSTEM OZEU				41,600		
815	00056	41,600	SQ. FT.	FIELD PAINTING OF EXISTING STEEL, PRIME COAT, SYSTEM OZEU				41,600		*
815 815	00060 00066	41,600 41,600	SQ, FT. SQ. FT.	FIELD PAINTING OF EXISTING STEEL, INTERMEDIATE COAT, SYSTEM OZEU FIELD PAINTING OF EXISTING STEEL, FINISH COAT, SYSTEM OZEU				41,600 41,600		
842	43001	137		CLASS C CONCRETE, PIER, AS PER PLAN			137			5
842	45701	154	CU. YD.	CLASS C CONCRETE, PIER, AS PER PLAN CLASS C CONCRETE, ABUTMENT, AS PER PLAN	77	77	137			5
UTZ	73/01			OLAGO O CONCILLE, ADUNMENT, AS FEN FEAN		//				J
843	50001	70	SQ. FT.	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN	55	11	4			5
863	10240	273,182	POUND	STRUCTURAL STEEL MEMBERS, LEVEL TWO (2) FABRICATION (A572 - 50)				273,182	· · · · · · · · · · · · · · · · · · ·	***************************************
863	20000	7344	EACH	WELDED STUD SHEAR CONNECTOR			-	7344		
864	10100	1488	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	84	84	625	695		
894	10001	900	CU. YD.	HIGH PERFORMANCE CONCRETE, FOR BRIDGE DECK WITH WARRANTY, AS PER PLAN				900		5

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THE NEW WIDENED PORTION OF THE STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1996, INCLUDING THE 1997, 1998 AND 1999 INTERIM SPECIFICATION AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

EXISTING SUBSTRUCTURE: CF400 (57)

MODIFIED SUBSTRUCTURE AND SUPERSTRUCTURE:

HS20-44, CASE II AND THE ALTERNATE MILITARY LOADING.

FUTURE WEARING SURFACE (FWS) OF 60 LBS/FT2.

DESIGN DATA:

HIGH PERFORMANCE CONCRETE HPC SS844 FOR SUPERSTRUCTURE - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)

CONCRETE CLASS C - COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE)

REINFORCING STEEL — ASTM A615, A616 OR A617, GRADE 60 MINIMUM YIELD STRENGTH 60.000 PSI.

SPIRAL REINFORCEMENT MAY BE PLAIN BARS, ASTM A82 OR A615.

STRUCTURAL STEEL

ASTM A572 /A709 GRADE 50 - YIELD STRENGTH 50.000 PSI

REFERENCE DRAWINGS:

REFERENCE SHALL BE MADE TO STANDARD DRAWING(S):

AS-1-81 DATED 4-20-01 BR-1 DATED 1-06-99 BS-1-93 DATED 12-19-94 GSD-1-96 DATED 4-20-01

PCB-91 DATED 7-6-99 SICD-1-96M DATED 4-20-01

AND TO SUPPLEMENTAL SPECIFICATION(S):

SS-814 DATED 6-2-98

SS-815 DATED 2-22-00

SS-842 DATED 1-06-99 SS-843 DATED 5-05-98

SS-844 DATED 1-06-99

SS-846 DATED 9-09-97 SS-848 DATED 6-30-98

6-851 DATED 6-6-00

S-863 DATED 10-12-99

SS-894 DATED 10-12-99

SS-864 DATED 7-11-00 SS-899 DATED 10-21-98

SS-905 DATED 4-1-98

SS-907 DATED 10-21-98

SS-910 DATED 7-28-98

SS-911 DATED 7-10-97 SS-954 DATED 9-09-97

DECK PROTECTION METHOD:

EPOXY COATED REINFORCING STEEL.

2 1/2" CONCRETE COVER.

MONOLITHIC WEARING SURFACE:

MONOLITHIC WEARING SURFACE IS ASSUMED. FOR DESIGN PURPOSES. TO BE I INCH THICK.

PROPOSED WORK:

THE WORK TO BE DONE UNDER THIS CONTRACT IS AS SHOWN ON THE CONSTRUCTION PLANS AND, IN GENERAL, INCLUDES THE FOLLOWING:

- 1. PHASE REMOVAL OF EXISTING CONCRETE DECKS, APPROACH SLABS AND PORTIONS OF THE ABUTMENTS AND PIERS.
- 2. MODIFY, REPAIR AND EXTEND EXISTING SUBSTRUCTURE UNITS.
- 3. ELIMINATE THE EXISTING EXPANSION JOINTS BY MODIFYING THE ABUTMENTS TO ACT AS SEMI-INTEGRAL TYPE STRUCTURES.
- 4. REMOVE ALL EXISTING END CROSSFRAMES AND 4 INTERMEDIATE CROSSFRAMES AT THE LOCATIONS SHOWN ON THE PLANS.
- 5. ELIMINATE ALL SCUPPERS FROM BRIDGE.
- 6. REPLACE APPROACH SLABS.
- 7. REMOVE BEARINGS AT ALL SUBSTRUCTURE LOCATIONS. INSTALL NEW ELASTOMERIC BEARINGS.
- 8. ERECT NEW STRUCTURAL STEEL FOR WIDENED STRUCTURES.
- 9. PLACE NEW CONCRETE DECKS AND PARAPETS.
- 10. SEAL CONCRETE SURFACES.
- 11. CLEAN AND PAINT STRUCTURAL STEEL.

PORTIONS OF STRUCTURE REMOVED. AS PER PLAN:

DESCRIPTION: THIS WORK SHALL CONSIST OF THE REMOVAL OF CONCRETE DECKS INCLUDING SIDEWALKS, PARAPETS, RAILINGS, DECK JOINTS, SCUPPERS AND OTHER APPURTENANCES FROM STEEL SUPPORTING SYSTEMS (BEAMS). CARE SHALL BE TAKEN DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. IN THIS RESPECT, THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED.

PROTECTION OF TRAFFIC: PRIOR TO DEMOLITION OF ANY PORTIONS OF THE EXISTING SUPERSTRUCTURE, THE CONTRACTOR SHALL SUBMIT PLANS FOR THE PROTECTION OF TRAFFIC ADJACENT TO AND/OR UNDER THE STRUCTURE TO THE DIRECTOR FOR APPROVAL. THESE PLANS SHALL INCLUDE PROVISIONS FOR ANY DEVICES AND STRUCTURES THAT MIGHT BE NECESSARY TO ENSURE SUCH PROTECTION. TEMPORARY VERTICAL CLEARANCES SPECIFIED ON THE PLANS OR IN THE PROPOSAL SHALL BE MAINTAINED AT ALL TIMES EXCEPT AS OTHERWISE APPROVED BY THE DIRECTOR.

PROTECTION OF STEEL SUPPORTS SYSTEM: BEFORE DECK SLAB CUTTING IS PERMITTED, THE OUTLINE OF THE PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK SHALL BE DRAWN ON THE SURFACE OF THE DECK. SMALL DIAMETER PILOT HOLES SHALL BE DRILLED 2 INCHES OUTSIDE THESE LINES TO CONFORM THE LOCATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL, CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. DURING CUTTING OF THE DECK SLAB, CARE SHALL BE TAKEN NOT TO DAMAGE STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE.

REMOVAL METHODS: CONCRETE MAY BE REMOVED BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER BRIDGE MEMBERS (BEAMS) A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS MAY BE USED AT THE APPROVAL OF THE ENGINEER. REMOVAL METHODS OVER BRIDGE MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STEEL MEMBERS.

DECK REMOVALS: DUE TO THE POSSIBLE PRESENCE OF WELDED ATTACHMENTS TO EXISTING STRUCTURAL STEEL (FINISHING MACHINE, SCUPPER AND FORM SUPPORTS, ETC.) CARE SHALL BE TAKEN DURING DECK REMOVAL TO AVOID DAMAGING BEAMS WHICH ARE ARE TO REMAIN. BEAMS DAMAGED BY THE CONTRACTOR'S REMOVAL OPERATIONS SHALL AT NO COST TO THE PROJECT, BE REPLACED OR REPAIRED. PROPOSED REPAIRS, DEVELOPED BY A OHIO REGISTERED PROFESSIONAL ENGINEER, SHALL BE SUBMITTED IN WRITING FOR REVIEW AND APPROVAL BY THE DIRECTOR.

EXTRANEOUS MEMBERS: EXISTING EXTRANEOUS MEMBERS (i.e., FINISHING MACHINE AND FORM SUPPORTS, ETC., AND THE SUPPORT FOR SCUPPERS AND CROSSFRAME ANGLES WHICH ARE TO BE REMOVED) ATTACHED BY WELDED CONNECTION TO THE DESIGNATED TENSION PORTIONS OF THE TOP FLANGES OF EXISTING STEEL MEMBERS SHALL BE REMOVED AND THE FLANGE SURFACES GROUND SMOOTH. GRINDING SHALL BE CAREFULLY DONE AND PARALLEL TO THE FLANGES.

LOADING LIMITATIONS: NO PART OF THE STRUCTURE SHALL BE SUBJECTED TO UNIT STRESSES THAT EXCEED 136.5% OF ALLOWABLE UNIT STRESSES AS DEFINED IN "ASSHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" DUE EITHER TO DEMOLITION, ERECTION OR CONSTRUCTION METHODS, OR TO THE USE OR MOVEMENT OF DEMOLITION OR ERECTION EQUIPMENT ON OR ACROSS THE STRUCTURE. STRUCTURAL ANALYSIS COMPUTATIONS, BY A OHIO REGISTERED PROFESSIONAL ENGINEER, SHOWING THE ALLOWABLE STRESSES AND THE MAXIMUM STRESSES PRODUCED BY THE CONTRACTOR'S METHODS OR EQUIPMENT SHALL BE SUBMITTED TO THE DIRECTOR FOR REVIEW AND APPROVAL AT LEAST. TWO WEEKS PRIOR TO THE START OF THE WORK.

PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT LUMP PRICE BID, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN CONFORMANCE WITH THESE REQUIREMENTS, WITH PERTINENT PROVISIONS OF 202, AND TO THE SATISFACTION OF THE ENGINEER.

CUT LINE CONSTRUCTION JOINT PREPARATION:

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. THE EXISTING REINFORCING STEEL IF REQUIRED IN THE PLANS SHALL BE LEFT IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THE JOINT SURFACE AND EXPOSED REINFORCEMENT SHALL BE THOROUGHLY CLEANED 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 ALL PACK AND LOOSE RUST SHALL BE REMOVED. EXISTING CONCRETE SURFACES WHICH NEW CONCRETE WILL BE PLACED AGAINST SHALL BE WET, BUT WITHOUT FREE WATER, AT THE TIME OF CONCRETE PLACEMENT.

SUBSTRUCTURE CONCRETE REMOVAL:

SUBSTRUCTURE CONCRETE REMOVAL SHALL BE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, HAMMERS NOT EXCEEDING 90 POUNDS, MAY BE USED UPON THE APPROVAL OF THE ENGINEER. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

ITEM 863 - STRUCTURAL STEEL MEMBERS MISCELLANEOUS FABRICATION, AS PER PLAN:

ALL SECTIONS OF SS 863 APPLY EXCEPT AS REVISED HEREIN. THE ENGINEER IS RESPONSIBLE FOR ENSURING ANY SHOP OR FIELD FABRICATED STEEL SUPPLIED UNDER THIS BID ITEM IS ACCEPTABLE. THE REQUIREMENTS FOR SUBMITTAL OF SHOP DRAWINGS TO THE OFFICE OF STRUCTURAL ENGINEERING IS WAIVED. AT THE ENGINEER'S OPTION, THE CONTRACTOR SHALL EITHER SUPPLY THE ENGINEER WITH SHOP DRAWINGS, REQUIRED IN SECTION 863.08, PRIOR TO ANY INCORPORATION OF SHOP FABRICATED STEEL AT THE PROJECT, OR SUPPLY THE ENGINEER WITH "AS FABRICATED" DRAWINGS, MEETING 863.08, AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER SHALL ASSURE THE SUBMITTED DRAWINGS MATCH THE FINAL AS BUILT STEEL INCORPORATED INTO THE WORK. IF THE ENGINEER IS SATISFIED WITH THE DRAWINGS AND THE DELIVERED MATERIALS, THE CONTRACTOR SHALL SUPPLY A COPY SET, STAMPED AND DATED AS PER 863.08, TO THE OFFICE OF STRUCTURAL ENGINEERING FOR RECORD PURPOSES. SUBMITTAL REQUIREMENTS UNDER 863.09, MATERIALS, SHALL BE MADE TO THE ENGINEER. THE CONTRACTOR SHALL FURNISH A COPY OF THE WRITTEN LETTER OF ACCEPTANCE, 863.09, TO THE OFFICE OF STRUCTURAL ENGINEERING.

THE ENGINEER, AT OR BEFORE THE PRE-CONSTRUCTION MEETING MAY CHOOSE TO REQUEST ASSISTANCE, AS REQUIRED. FROM THE OFFICE OF STRUCTURAL ENGINEERING.

STEEL MEMBERS INCLUDED IN THIS ITEM INCLUDE BEAMS AND CROSSFRAMES.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.02/863.07.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

ITEM 509 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN:

ANY EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION SHALL BE REPLACED WITH NEW REINFORCING STEEL. ANY EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS SHALL BE REPLACED WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT THE CONTRACTOR'S COST. ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. THE NUMBER OF POUNDS OF REINFORCING STEEL PAID FOR AT THE CONTRACT PRICES SHALL BE THE ACTUAL POUNDS OF REPLACEMENT REINFORCING STEEL SPECIFIED BY THE ENGINEER DUE TO CORROSION AND SHALL INCLUDE PLACEMENT, DOWELING, BENDING, SUPPORTING TIE WIRES AND TYING OF THAT SPECIFIED REINFORCING STEEL.

ITEM 503, UNCLASSIFIED EXCAVATION, AS PER PLAN:

UNCLASSIFIED EXCAVATION SHALL BE IN ACCORDANCE WITH 503 EXCEPT THAT THE BACKFILL MATERIAL BEHIND THE ABUTMENTS SHALL BE 203 MATERIAL PLACED IN 6 INCH LIFTS.

PILES TO BEDROCK:

PILES SHALL BE DRIVEN TO REFUSAL ON BEDROCK. REFUSAL SHALL BE CONSIDERED AS OBTAINED BY PENETRATING SOFT BEDROCK FOR SEVERAL INCHES WITH A MINIMUM RESISTANCE OF 20 BLOWS PER INCH OR REFUSAL SHALL BE CONSIDERED AS OBTAINED AFTER THE PILE HAS CONTACTED HARD BEDROCK AND THE PILE HAS THEN RECEIVED AT LEAST 20 BLOWS. THE CONTRACTOR IS RESPONSIBLE FOR SELECTING THE HAMMER SIZE TO ACHIEVE THE REQUIRED DEPTH TO BEDROCK AND REFUSAL.

THE ULTIMATE BEARING VALUE IS 134 TONS PER PILE FOR THE ABUTMENT PILES. THE ULTIMATE BEARING VALUE IS 83 TONS PER PILE FOR THE ALL PIER PILES.

ABUTMENT PILES:

10 PILES 26 FEET LONG, REAR ABUTMENT, ESTIMATED LENGTH

10 PILES 25 FEET LONG, FORWARD ABUTMENT, ESTIMATED LENGTH

10 PILES OF ORDER LENGTH 26 FEET LONG, REAR ABUTMENT 10 PILES OF ORDER LENGTH 25 FEET LONG, FORWARD ABUTMENT

10 SPLICES

PIER PILES:

30 PILES 12 FEET LONG ESTIMATED LENGTH 10 PILES OF ORDER LENGTH 36 FEET LONG 5 SPLICES

PILE DRIVING CONSTRAINTS:

PRIOR TO DRIVING PILES, THE SPILL THROUGH SLOPES AND THE BRIDGE APPROACH EMBANKMENT BEHIND THE ABUTMENTS SHALL BE CONSTRUCTED UP TO THE LEVEL OF THE SUBGRADE ELEVATION FOR A MINIMUM DISTANCE OF 200 FEET BEHIND EACH ABUTMENT. THE EXCAVATION FOR THE ABUTMENT FOOTINGS AND THE INSTALLATION OF THE ABUTMENT PILES SHALL NOT BEGIN UNTIL AFTER THE ABOVE REQUIRED EMBANKMENT HAS BEEN CONSTRUCTED.

ITEM 507, STEEL POINTS, AS PER PLAN:

STEEL PILE POINTS SHALL BE USED TO PROTECT THE TIPS OF THE PROPOSED STEEL "H" PILING. THE STEEL POINTS SHALL BE FURNISHED BY ASSOCIATED PILE AND FITTING CORPORATION, 262 RUTHERFORD BLVD., CLIFTON, NEW JERSEY 07014; INTERNATIONAL CONSTRUCTION EQUIPMENT, INC., 301 WAREHOUSE DRIVE, MATTHEWS, NORTH CAROLINA 28015; DOUGHERTY FOUNDATION PRODUCTS, INC., P.O. BOX 688, FRANKLIN LAKES, NEW JERSEY 07417; VERSA STEEL INC., 3601 NW YEON AVE., P.O. BOX 10559, PORTLAND, OREGON 97210; PILING ACCESSORIES, INC., 3467 GRIBBLE ROAD, MATHEWS, NORTH CAROLINA 28105; OR BY A MANUFACTURER THAT CAN FURNISH A STEEL POINT THAT IS ACCEPTABLE TO THE DIRECTOR. THE MATERIAL USED FOR THE MANUFACTURING OF PILE POINTS SHALL CONFORM TO ASTM A27 65/35 — CLASS 2 — HEAT TREATED OR ASSHTO M103 65/35 — HEAT TREATED. WELDING OF THE PILE POINTS TO THE PILE SHALL BE IN ACCORDANCE WITH AWS D1.5 OR THE MANUFACTURER'S WRITTEN WELDING PROCEDURE SUPPLIED BY THE ENGINEER BEFORE THE WELDING IS PERFORMED. A NOTARIZED COPY OF THE MILL TEST REPORT SHALL BE SUBMITTED TO THE ENGINEER.

MAINTENANCE OF TRAFFIC:

ON S.R. 254 (DETROIT ROAD) AT THE PROJECT SITE, TRAFFIC SHALL BE MAINTAINED ON ONE LANE IN EACH DIRECTION AT ALL TIMES DURING THE CONSTRUCTION PERIOD. TRAFFIC WILL BE MAINTAINED ON INTERSTATE ROUTE 90 AT ALL TIMES, WITH A MINIMUM VERTICAL CLEARANCE OF 14'-0". FOR MAINTENANCE OF TRAFFIC NOTES AND DETAILS REFER TO THE ROADWAY PLANS.

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THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND OPERATION OF AN ADEQUATE JACKING SYSTEM, INCLUDING ANY TEMPORARY OR PERMANENT SUPPORTS NECESSARY TO PERFORM THE WORK DESCRIBED IN THE PROJECT PLANS. THREE (3) SETS OF JACKING PLANS, WHICH INCLUDE THE INFORMATION DESCRIBED IN THIS NOTE, SHALL BE SUBMITTED TO THE DIRECTOR FOR APPROVAL AT LEAST THIRTY (30) DAYS BEFORE ACTUAL WORK I TO BEGIN. THE PLANS SHALL BE PREPARED AND STAMPED BY A OHIO PROFESSIONAL ENGINEER.

JACKING SUBMITTALS SHALL INCLUDE AT LEAST THE FOLLOWING:

- 1. THE SIGNATURE AND NUMBER, OR PROFESSIONAL SEAL, OF THE OHIO REGISTERED PROFESSIONAL ENGINEER WHO PREPARED THE SUBMITTAL
- 2. CALCULATIONS AND ANALYSES OF THE STRUCTURE TO DETERMINE AND DEFINE THE ACTUAL LOADING APPLIED AT THE CONTRACTOR'S SELECTED JACKING POINTS.
- 3. A DRAWING SHOWING THE PHYSICAL AND DIMENSIONAL POSITIONS OF THE JACKS WITH RESPECT TO THE STRUCTURE INCLUDING CLEARANCES AND CENTER OF LIFT.
- 4. A SCHEMATIC LAYOUT OF JACKS, CHECK VALVES, PUMPS WITH 3 WAY RETRACTOR VALVE, PRESSURE GAGES, FLOW CONTROL VALVES, ETC. IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ALL JACKS FOR EACH ABUTMENT OR PIER SHALL BE CONNECTED TOGETHER. ALL JACKS AT EACH ABUTMENT OR PIER SHALL BE THE SAME SIZE.
- ANALYSIS AND CALCULATIONS OF THE STRESSES INDUCED OR CREATED IN THE STRUCTURE AND ANY TEMPORARY OR PERMANENT SUPPORTS. DESIGN CALCULATIONS FOR ANY TEMPORARY OR PERMANENT SUPPORTS.
- PHYSICAL DIMENSIONS, MATERIALS, AND FABRICATION DETAILS OF ANY TEMPORARY OR PERMANENT SUPPORTS. HORIZONTAL AND VERTICAL MOVEMENT RESTRAINT SHALL BE PROVIDED.
- 7. A STEP BY STEP PROCEDURE DETAILING ALL STEPS IN THE JACKING OPERATION.
- METHOD OF ATTACHMENT TO STRUCTURAL MEMBERS, WELDING TO TENSION AREAS WILL NOT BE PERMITTED.

THE ENTIRE SYSTEM INCLUDING JACKS SHALL HAVE 20% MORE CAPACITY THAN REQUIRED BASED ON CALCULATED LOADS.

FOR LIFTS GREATER THAN 1 INCH, JACKS SHALL HAVE LOCKING NUTS TO POSITIVELY LOCK AND SUPPORT THE STRUCTURE DURING THE LIFT.

JACKS SHALL HAVE A SWIVEL LOAD CAP, A DOMED PISTON HEAD OR SOME OTHER DEVICE TO PROTECT AGAINST THE EFFECTS OF SIDE LOAD ON THE JACK.

JACKS ALONE SHALL NOT BE USED TO SUPPORT LOADS EXCEPT DURING THE ACTUAL JACKING OPERATION. TEMPORARY SUPPORTS, BLOCKING OR OTHER METHODS APPROVED BY THE DIRECTOR SHALL BE USED.

SINGLE ACTING RAMS WITH NO OVER-TRAVEL PROTECTION SYSTEM SHALL NOT BE USED.

SPARE EQUIPMENT SHALL BE AVAILABLE ON SITE FOR THE REQUIRED STRUCTURE RAISING TO PROCEED IN THE EVENT OF BREAKDOWN. A LIST OF SPARE EQUIPMENT SHALL BE PROVIDED TO THE ENGINEER.

AT A MINIMUM, A JACKING OPERATION SHALL LIFT ALL BEAMS AT ANY ONE ABUTMENT OR PIER SIMULTANEOUSLY. THE ONLY EXCEPTION IS THE SITUATION WHERE THE WORK INVOLVES REPLACING OR REHABILITATING INDIVIDUAL BEARINGS: NO PERMANENT SHIMMING IS REQUIRED AND THE HEIGHT OF THE LIFT SHALL NOT EXCEED 1/4 INCH.

MAXIMUM DIFFERENTIAL JACKING HEIGHT BETWEEN ANY ADJACENT ABUTMENTS OR PIERS SHALL BE 1 INCH OR LESS. THIS HEIGHT MAY BE MODIFIED IF CALCULATIONS. BY THE CONTRACTOR'S OHIO REGISTERED PROFESSIONAL ENGINEER, SHOW THE SUPERSTRUCTURE COMPONENTS WILL NOT BE TEMPORARILY STRESSED BEYOND ALLOWABLE STRESSES FOR THOSE COMPONENTS AND THAT NO PERMANENT STRESSES WILL BE INCLUDED IN THE COMPONENTS AFTER THEY OBTAIN THEIR FINAL POSITION.

IF DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE SEPARATION OF THE CONCRETE DECK FROM THE STEEL GIRDERS. OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, THE JACKING OPERATION SHALL IMMEDIATELY CEASE AND APPROVED SUPPORTS SHALL BE INSTALLED. THE CONTRACTOR SHALL THEN ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. ANY BEAMS THAT SEPARATE FROM THE DECK SHALL BE EPOXY INJECTED FOR THE DISTANCE OF SEPARATION IN ACCORDANCE WITH ODOT'S PROPOSAL NOTE "CONCRETE REPAIR BY EPOXY INJECTION". COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

THE CONTRACTOR SHALL DEMONSTRATE TO THE ENGINEER THAT THE BRIDGE BEARINGS. ARE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUITABLE MEANS OF REPAIR, SUBJECT TO THE ENGINEER'S APPROVAL, WILL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.

PAYMENT SHALL BE MADE AT THE LUMP SUM PRICE BID FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN. THIS SHALL INCLUDE ALL NECESSARY TOOLS LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS ITEM OF WORK.

ITEM 611 REINFORCED CONCRETE APPROACH SLAB, T=15 INCHES, AS PER PLAN:

CONCRETE FOR THIS ITEM SHALL BE CLASS S, SS899 OR SS844, HIGH PERFORMANCE CONCRETE, MIX 4.

ITEM 843, PATCHING CONCRETE STRUCTURES, AS PER PLAN:

ALL SURFACES TO BE PATCHED AND THE EXPOSED REINFORCING STEEL WITHIN SHALL BE THOROUGHLY CLEANED BY ABRASIVE BLASTING PRIOR TO THE CLEANING SPECIFIED BY 519.04. CLEANING SHALL PRECEDE APPLICATION OF THE PATCHING MATERIAL OR ERECTIONS OF THE FORMS BY NOT MORE THAN 24 HOURS.

CONVERSION OF METRIC STANDARD DRAWINGS:

SOME OF THE STANDARD BRIDGE DRAWINGS REFERENCED IN THIS PLAN ARE METRIC. ANY CONVERSION OF DIMENSIONS REQUIRED TO CONSTRUCT THE ITEMS SHOWN ON THE STANDARDS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONVERSIONS SHALL BE MADE USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.011 OF THE 1997 CONSTRUCTION AND MATERIALS SPECIFICATIONS. THE APPENDIX OF ASTM E380 SHALL BE UTILIZED FOR ANY ADDITIONAL CONVERSION FACTORS REQUIRED. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

UTILITY LINES:

ALL EXPENSE INVOLVED IN RELOCATION (INSTALLING) THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE UTILITY(IES). THE CONTRACTOR AND UTILITY(IES) ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

ITEM 842 - CLASS C CONCRETE, AS PER PLAN:

THE AGGREGATE SHALL CONSIST OF NO. 8 LIMESTONE. THESE ITEMS SHALL INCLUDE THE COSTS OF THE REINFORCING STEEL.

ITEM 894- HIGH PERFORMANCE CONCRETE, FOR BRIDGE DECK WITH WARRANTY, AS PER PLAN: THE AGGREGATE SHALL CONSIST OF No. 8 LIMESTONE. THE OPTION OF SLIP FORM CONSTRUCTION OF THE BRIDGE PARAPETS IS NOT PERMITTED. THIS ITEM SHALL INCLUDE THE COSTS OF THE REINFORCING STEEL.

DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT:

ALL DOWEL HOLES SHALL BE PERFORMED PER CMS 510 AS THE PREFERRED METHOD. PRIMARY REINFORCING STEEL SHALL BE DEVELOPED BY LAP SPLICING OR BY THE USE OF MECHANICAL CONNECTORS. CUTTING PRIMARY STEEL AND DOWELING NEW BARS SHALL NOT BE PERMITTED. PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED WITH THE APPLICABLE ITEM 842, CONCRETE,

ITEM 518 POROUS BACKFILL WITH FILTER FABRIC, AS PER PLAN:

THE MATERIAL SHALL BE NO. 57 GRAVEL

DRIP GROOVES:

THE DRIP GROOVES AS DETAILED ON STANDARD CONSTRUCTION DRAWINGS SHALL NOT BE CONSTRUCTED. SEALING OF CONCRETE (EPOXY-URETHANE):

ALL EXPOSED CONCRETE SURFACES ON THE SUPERSTRUCTURE, ABUTMENTS, WINGWALLS AND PIERS SHALL BE SEALED WITH AN EPOXY-URETHANE SEALER MEETING SPECIFICATION 864 TO THE LIMITS SHOWN ON THE PLANS.

SURVEY DISC ON STRUCTURE:

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST ONE (1) WEEK IN ADVANCE OF POURING THE CONCRETE FOR THE COMPLETION OF THE ABUTMENT. THE ENGINEER WILL PROVIDE THE CONTRACTOR ONE (1) SURVEY DISC (OBTAINED FROM THE DISTRICT SURVEYOR) WHICH THE CONTRACTOR SHALL PLACE IN THE SURFACE OF THE FRESH CONCRETE, THE LOCATION OF THE DISC SHALL BE ON THE ABUTMENT, AND ON A FLAT, HORIZONTAL SURFACE BEYOND THE EDGE OF DECK AND GUARDRAIL OR PARAPET. THE BENCHMARK SHALL BE ACCESSIBLE TO A SURVEYOR'S ROD WITHOUT ANY OBSTRUCTIONS. COST OF THIS WORK IS CONSIDERED INCIDENTAL TO THE CONCRETE BID ITEM.

PAINTING OF 863 STEEL:

NEW STEEL SHALL BE SHOP PRIMED, WHICH SHALL BE INCLUDED IN THE COST OF ITEM 863. THE NEW STEEL SHALL ALSO BE PREPARED AND PAINTED PER SUPPLEMENTAL SPECIFICATION 815 IN THE FIFLD AS IF IT WERE EXISTING STEEL. QUANTITIES AND PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE SQUARE FOOT UNIT PRICE BID ITEM 815.

ITEM 815 - FIELD PAINTING OF EXISTING STEEL, SYSTEM OZEU:

ALL EXISTING AND NEW STEEL SHALL BE CLEANED AND PAINTED WITH A PRIME, INTERMEDIATE AND FINISH COAT OF PAINT IN THE FIELD USING SYSTEM OZEU. THE COST OF THIS WORK SHALL BE INCLUDED WITH SEVERAL FIELD PAINTING OF EXISTING STEEL, SYSTEM OZEU ITEMS FOR PAYMENT. THE COLOR OF THE FINISH COAT SHALL BE A GREEN COLOR MEETING FEDERAL STANDARD NUMBER 24277 OR A BLUE COLOR MEETING FEDERAL STANDARD NUMBER 25526. IN ADDITION TO THE SURFACE AREA OF THE STEFL BEAMS. TO BE PAINTED. AN ADDITIONAL TWENTY FIVE PERCENT OF THIS AMOUNT HAS BEEN ADDED TO THE SQUARE FOOT TOTALS TO ACCOUNT FOR INCIDENTALS SUCH AS CROSS FRAMES AND BEARINGS.

ITEM 516— ELASTOMERIC BEARING:

FOR ADDITIONAL NOTES, SEE THE PROPOSAL NOTE TITLED" 516,517,518 FABRICATED MEMBERS"

<u>ITEM SPECIAL - CONCRETE REPAIR BY EPOXY INJECTION:</u>

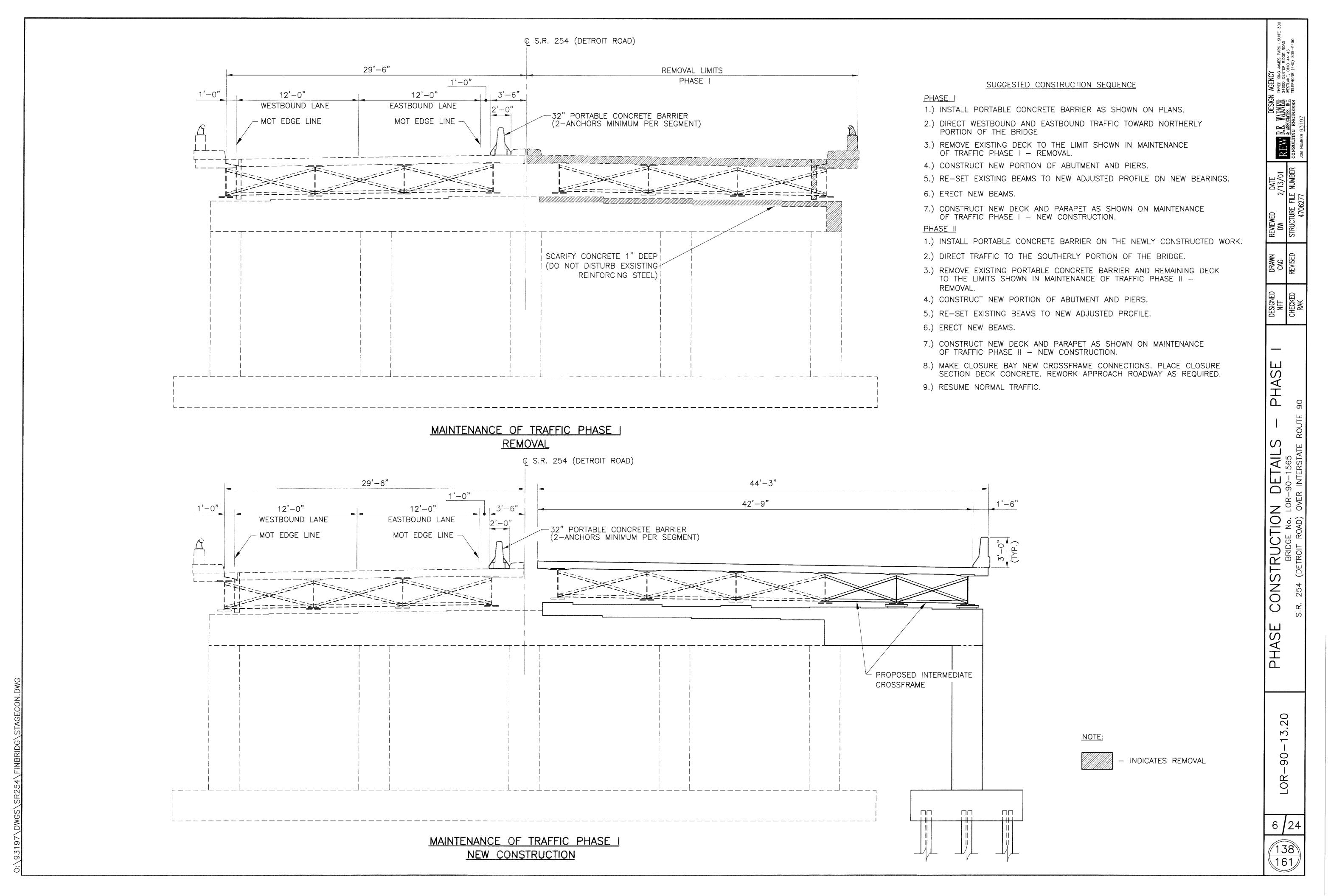
FOR ADDITIONAL NOTES, SEE THE PROPOSAL NOTE TITLED" CONCRETE REPAIR BY EPOXY INJECTION

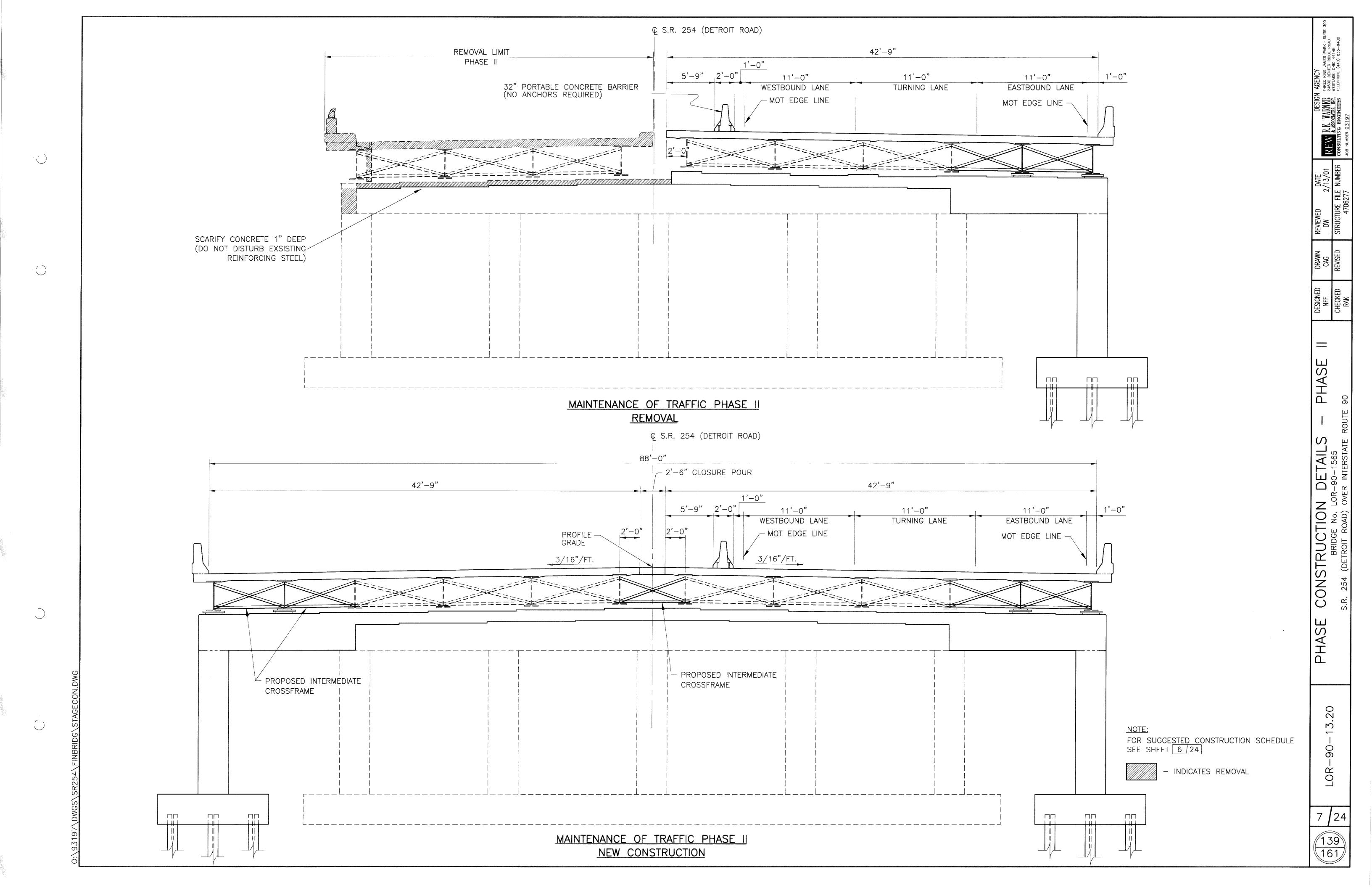
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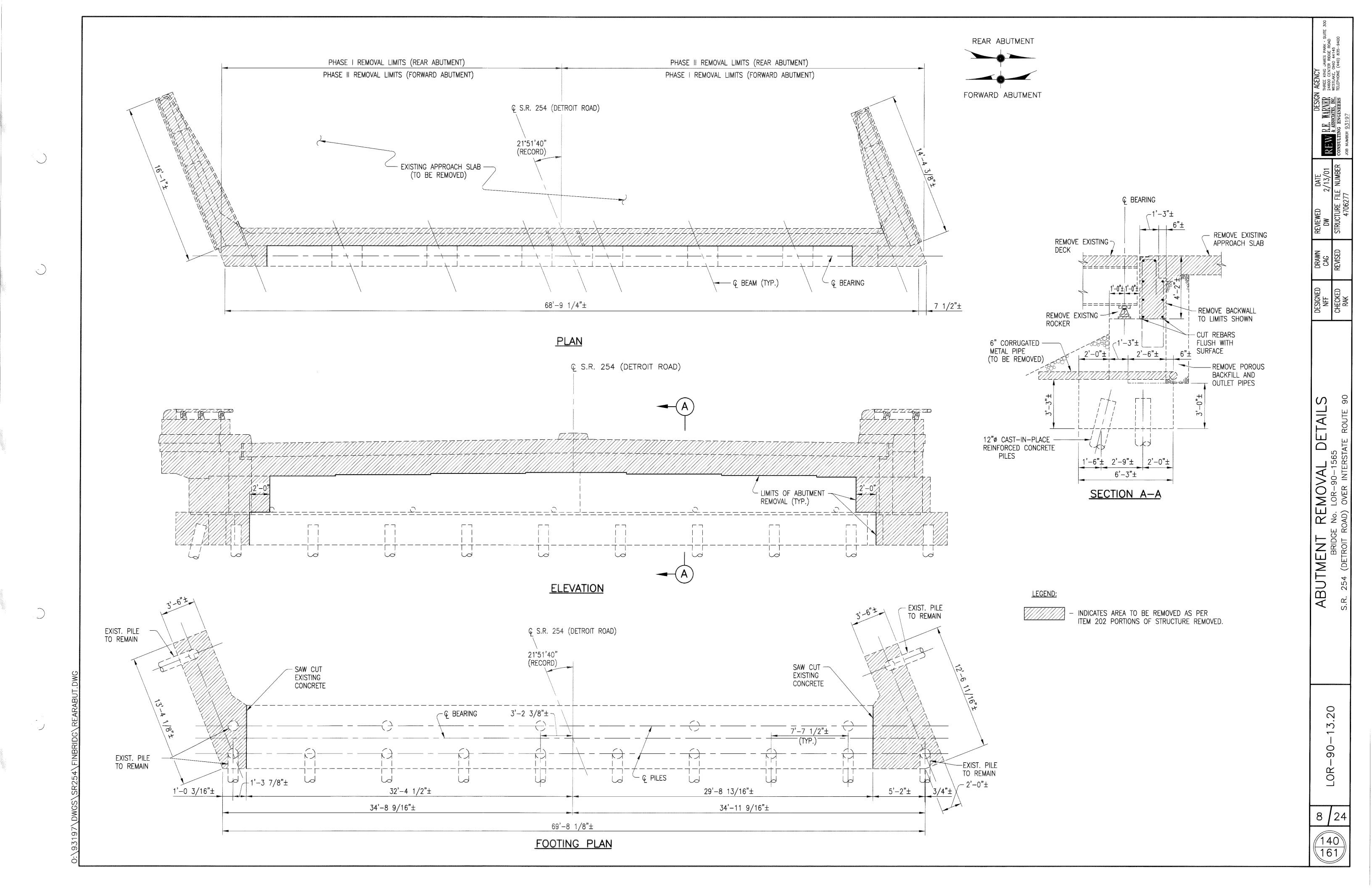
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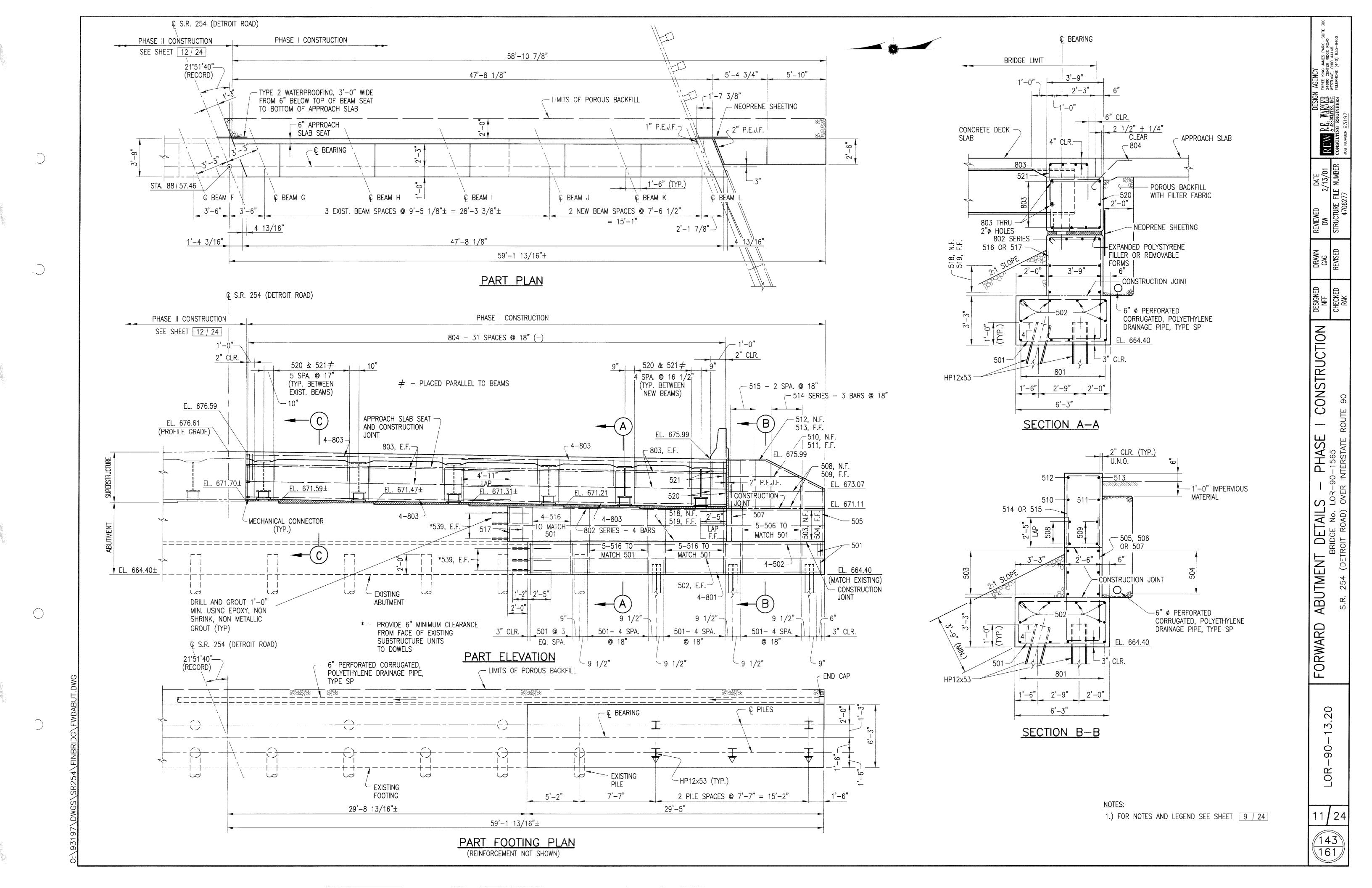
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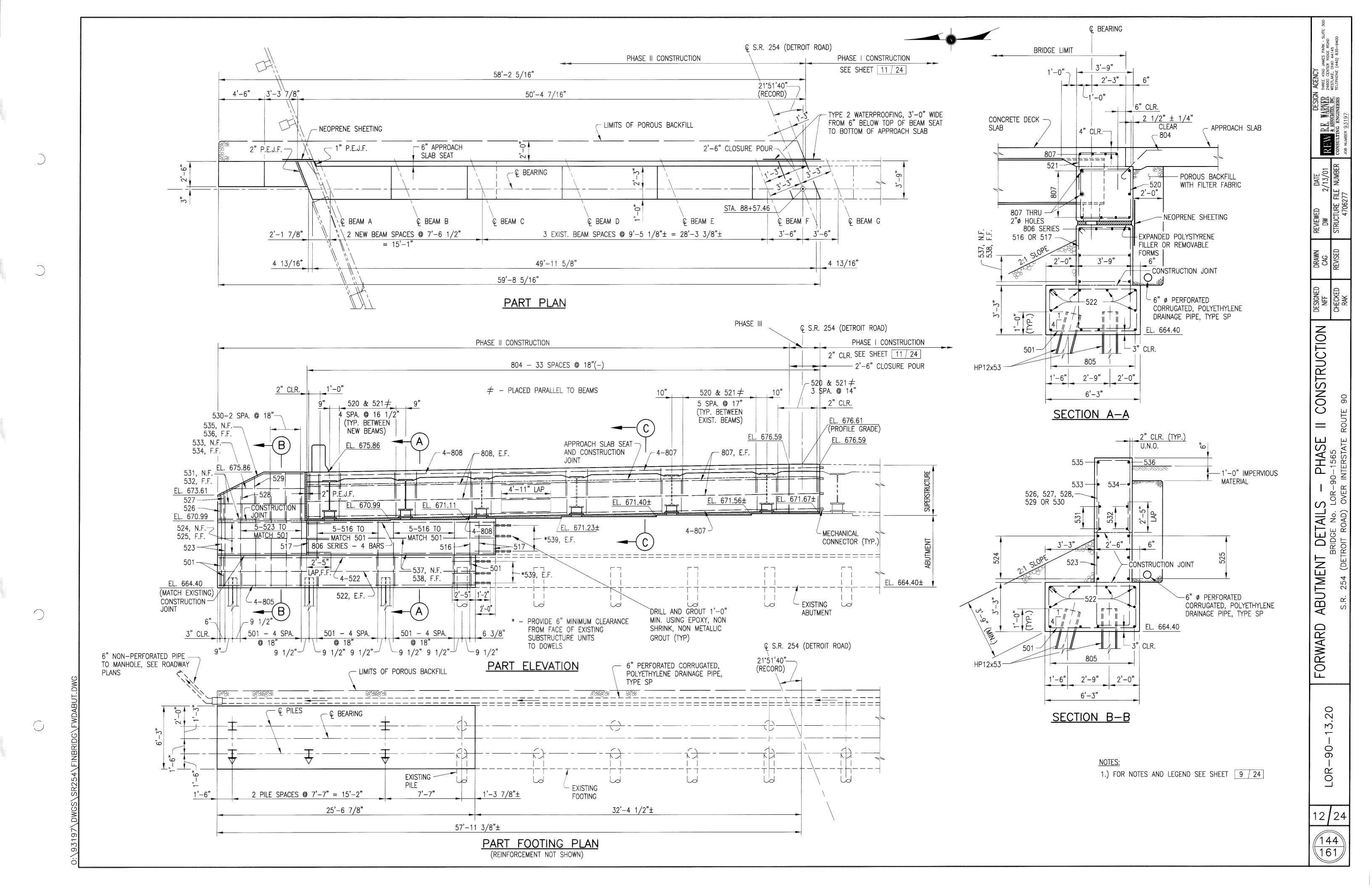


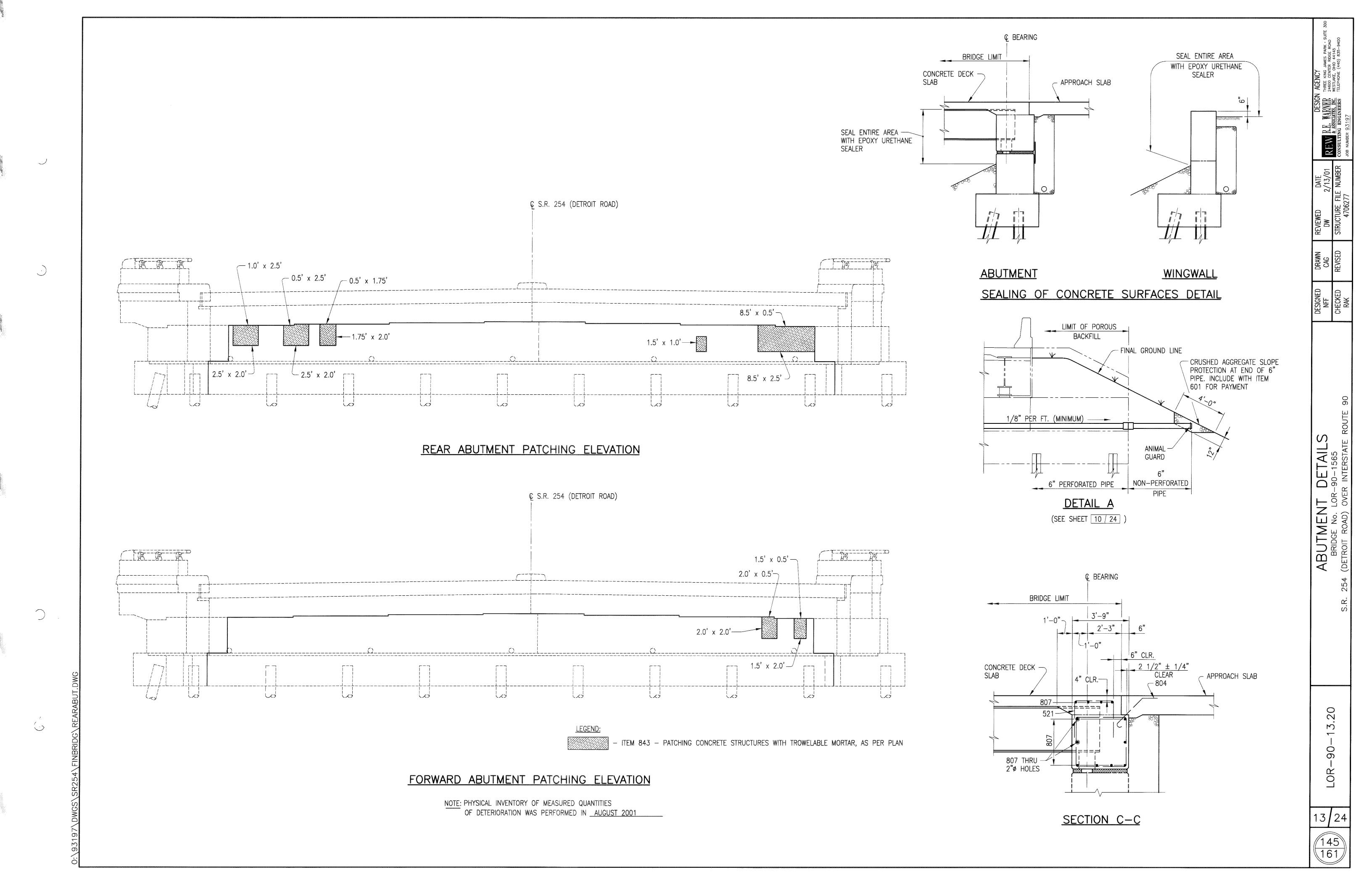


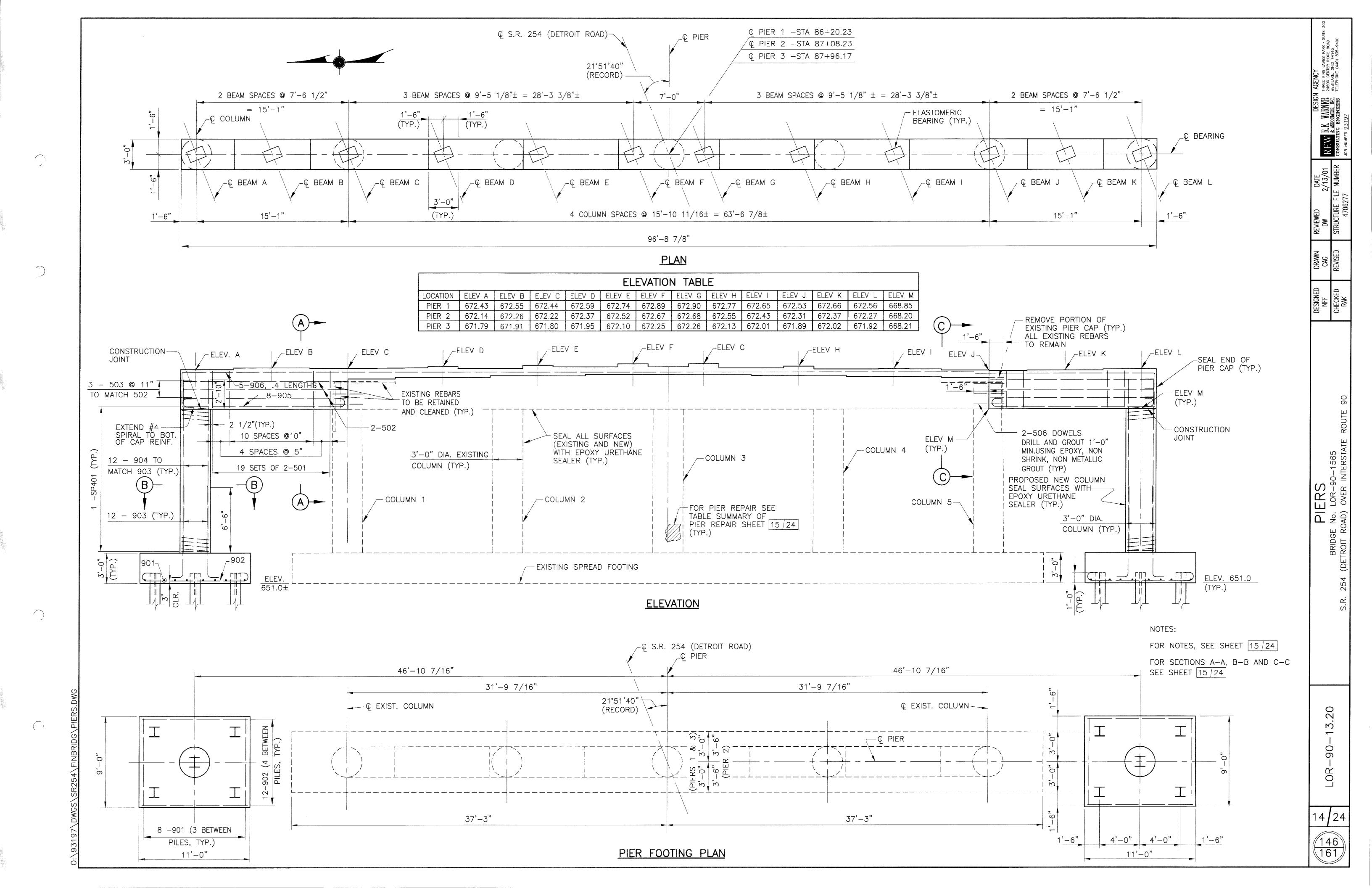


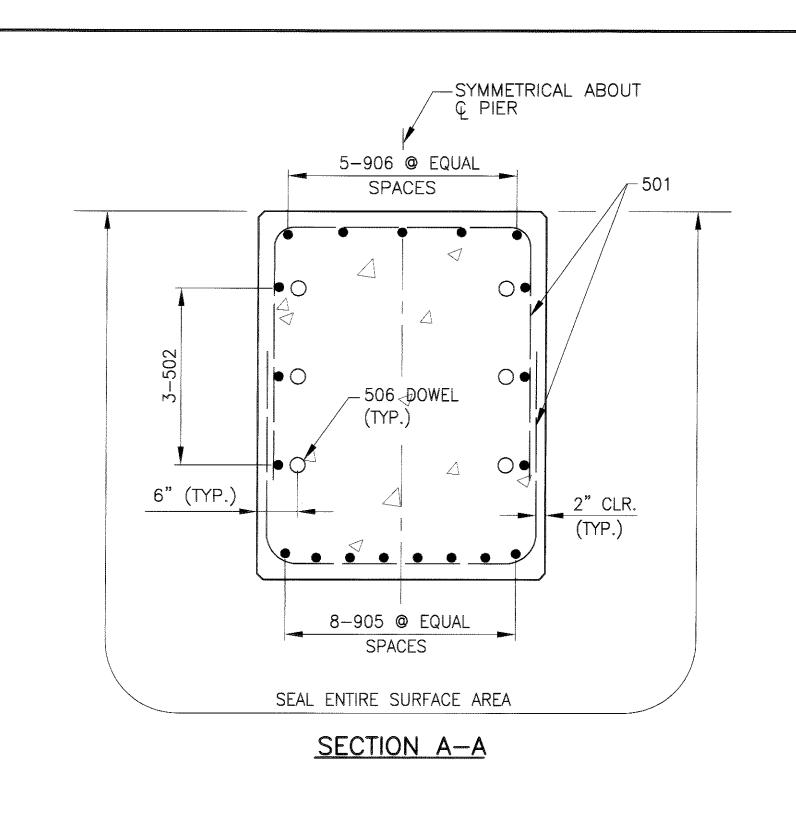
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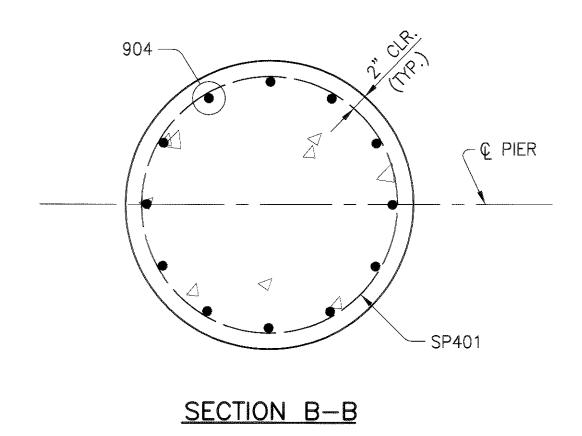


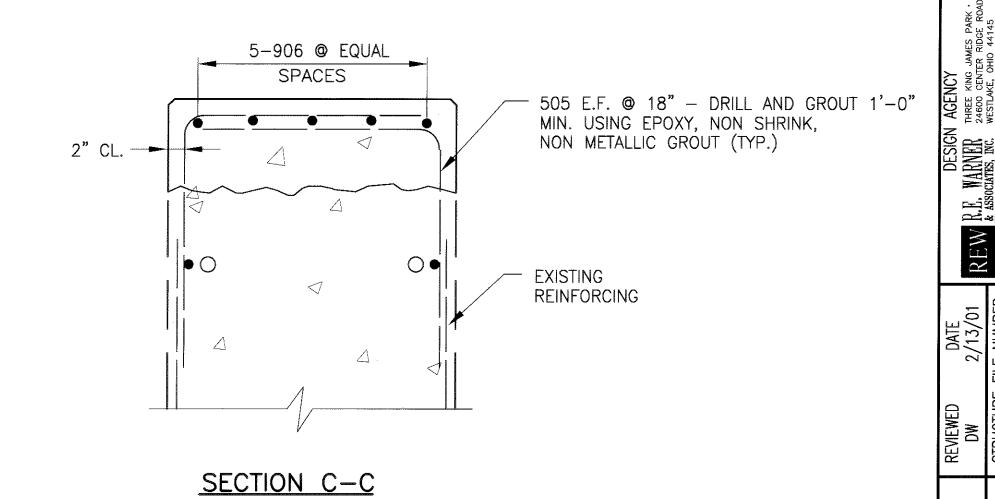












SUMMARY OF PIER REPAIR QUANTITIES (SQUARE FEET)										
	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	PIER CAP				
LOCATION	MEASURED	MEASURED	MEASURED	MEASURED	MEASURED	MEASURED				
PIER 1	2.0	0.0	0.0	0.0	0.0	1.0				
PIER 2	0.0	0.0	0.0	0.0	0.0	0.0				
PIER 3	0.0	0.0	0.0	0.0	0.0	0.0				

NOTE: PHYSICAL INVENTORY OF MEASURED QUANTITIES OF DETERIORATION WAS PERFORMED IN AUGUST 2001

	E REPAIR BY INJECTION
	PIER CAP
LOCATION	1/8" CRACK (L.F.)
PIER 1	0.0
PIER 2	9.0
PIER 3	16.0

1' X 1' COLUMN 5 COLUMN 5 COLUMN 5 COLUMN 4

PIER 1 WEST ELEVATION

PIER 2 AND 3 WEST ELEVATION

NOTES:

NEW REINFORCING STEEL MAY REQUIRE FIELD CUTTING OR BENDING TO BE PROPERLY FITTED. PAYMENT SHALL BE INCLUDED IN THE APPLICABLE CONCRETE ITEM.

ALL PILES ARE HP 12 X 53 WITH A DESIGN PILE LOAD OF OF 41.5 TONS PER PILE.

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:

PIER 1 = PAPIER 2 = PB

PIER 3 = PC

FOR REINFORCEMENT SCHEDULE, SEE SHEET 24/24

FOR PILING PLAN, SEE SHEET 2 /24

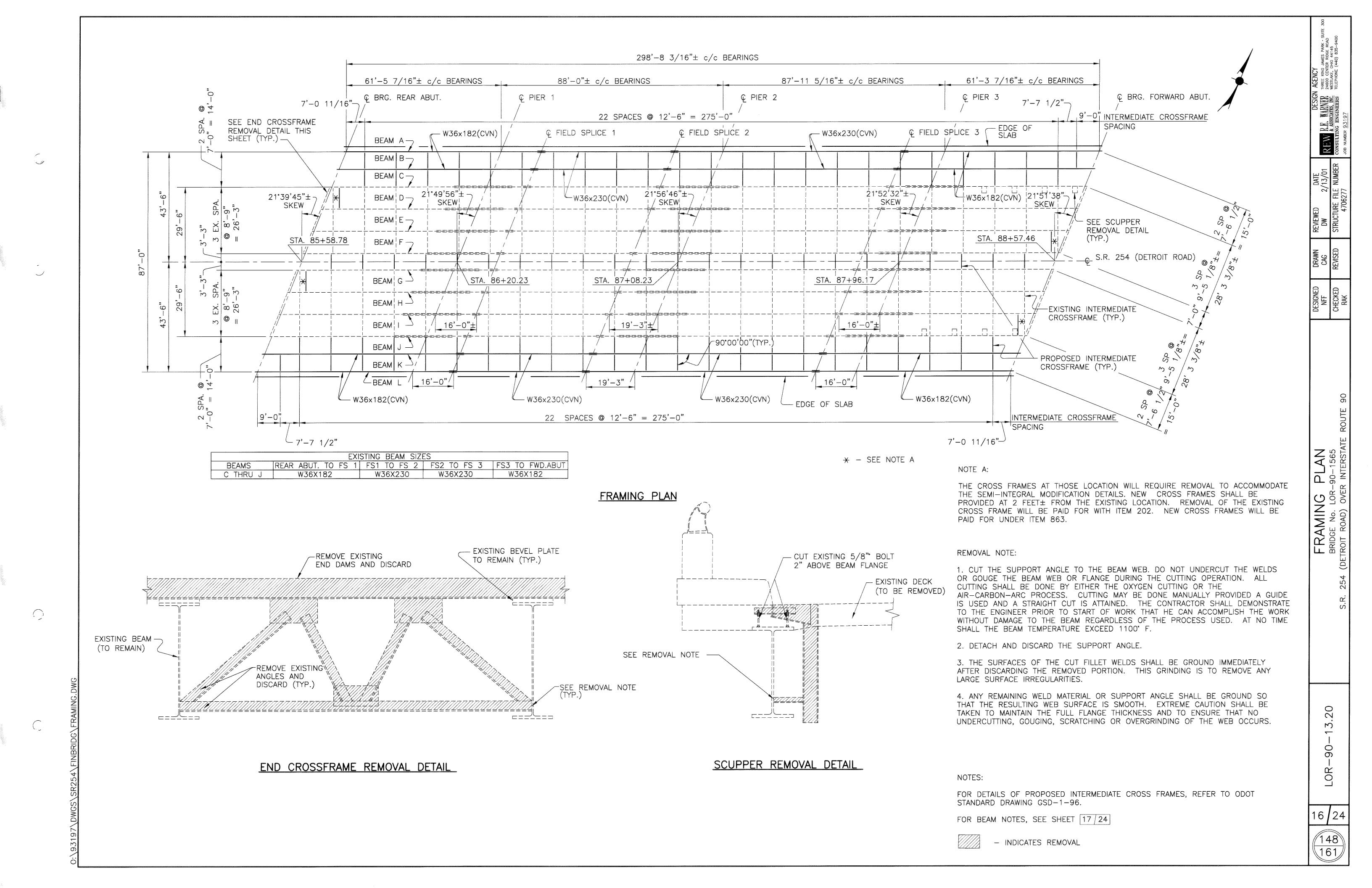
THE MODIFICATIONS OF THE EXISTING PIER CAPS
SHALL BE INCLUDED IN ITEM 842— CLASS C CONCRETE,
PIER, AS PER PLAN

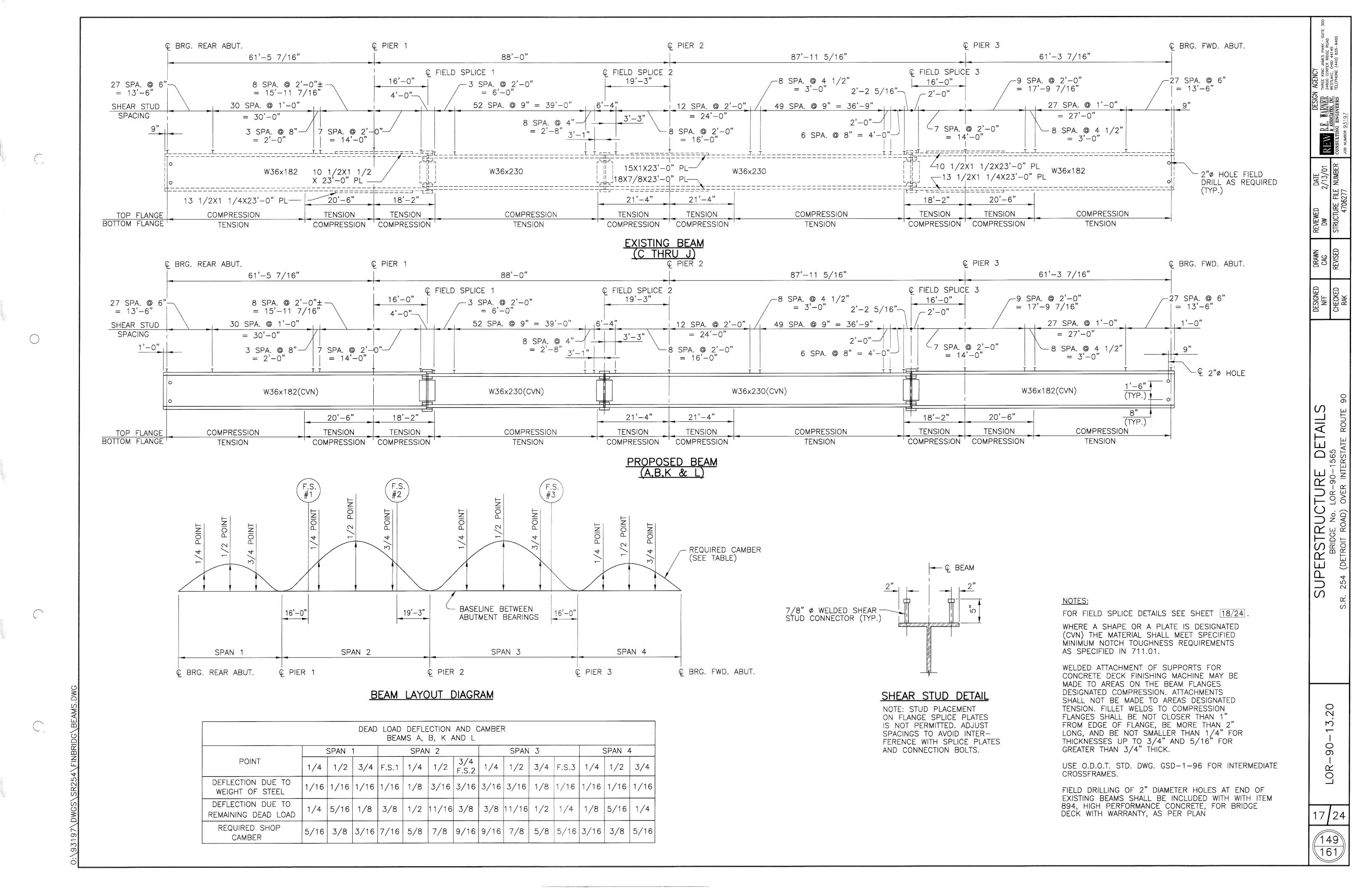
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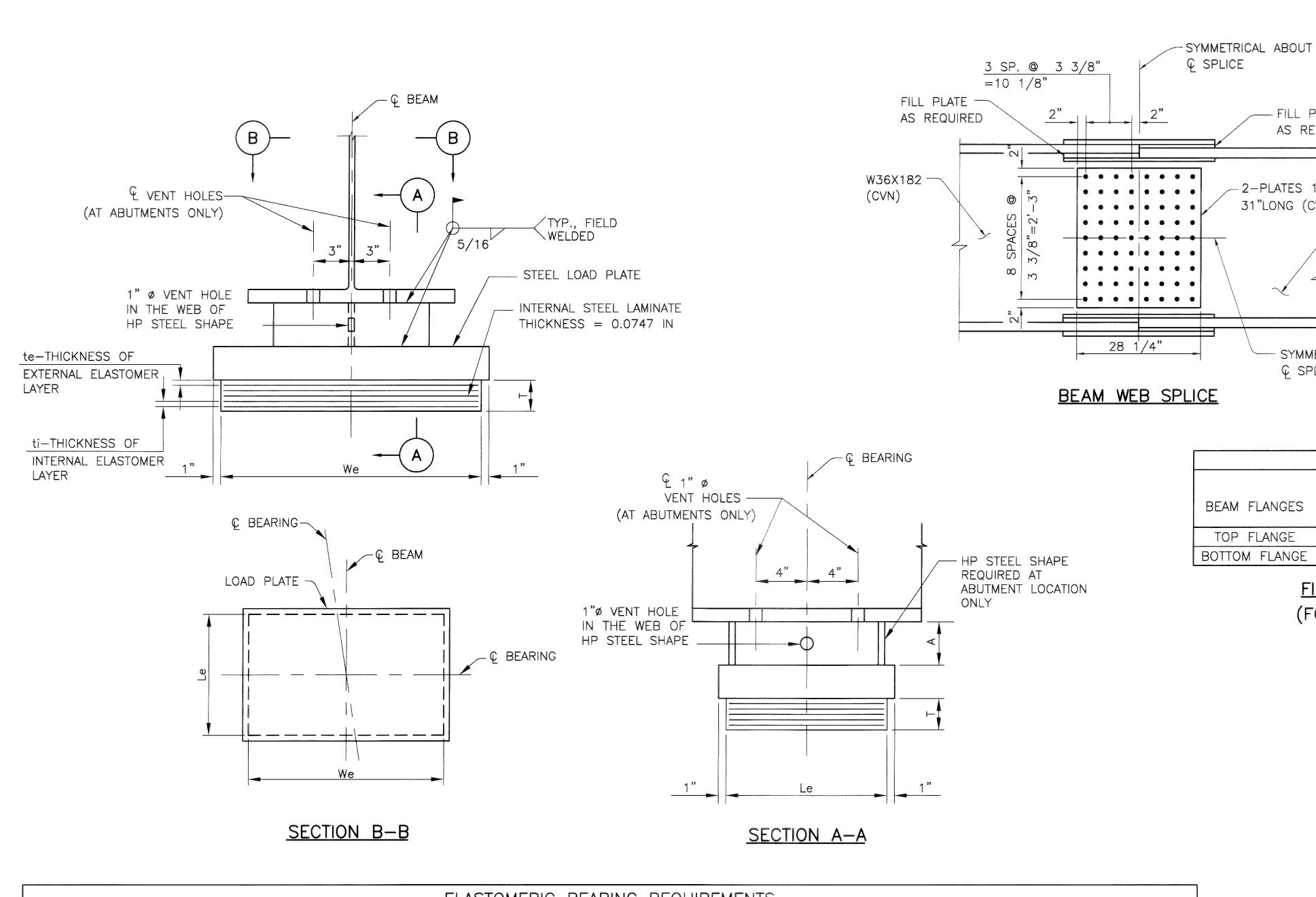
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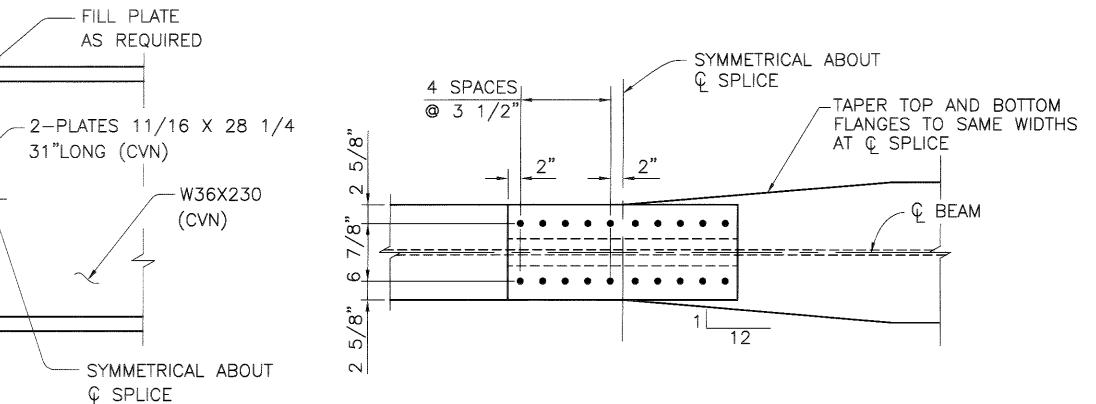
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BEAM FLANGE SPLICE

(1 OUTSIDE AND 2 INSIDE PLATES REQUIRED)

BEAM FLANGE SPLICES											
FLANGE SPLICE PLATES (CVN)											
BEAM FLANGES	OUTSIDE (1)	INSIDE (2)	FLANGE BOLTS								
	OOISIDE (I)	1145106 (2)	NUMBER								
TOP FLANGE	9/16X12X3'-0"	9/16X4 1/2X3'-0"	20								
BOTTOM FLANGE	9/16X12X3'-0"	9/16X4 1/2X3'-0"	20								

- FILL PLATE

31"LONG (CVN)

AS REQUIRED

- W36X230

(CVN)

SYMMETRICAL ABOUT

Q SPLICE

FIELD SPLICE 1 AND 3 DETAILS (FOR FIELD SPLICE 2, REFER TO ODOT BS-1-93 (W36X230))

NOTES:

- ELASTOMERIC BEARING NOTES
- 1. ELASTOMERIC BEARINGS SHALL COMPLY WITH ITEM 516 AND AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, SECTION 18, BEARING DEVICES, DIVISION II, CONSTRUCTION, ARTICLES 18.4.5.1 AND 18.5.6.2. BEARINGS SHALL BE GRADE 3, 50 DUROMETER ELASTOMER, AND SHALL BE SUBJECTED TO THE LOAD TESTING REQUIREMENTS DEFINED IN ARTICLE 18.7.4.5 OF THE AASHTO DOCUMENT LISTED ABOVE. BEARINGS WERE DESIGNED UNDER SECTION 14.6.1 OF SECTION 14, BEARINGS, DIVISION I, DESIGN. TESTING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARINGS, EACH.
- 2. WELDING SHALL BE CONTROLLED SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 150° C AS DETERMINED BY USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
- 3. IF THE STEEL IS ERECTED AT AN AMBIENT TEMPERATURE HIGHER THAN 80° F OR LOWER THAN 40° F AND THE BEARING SHEAR DEFLECTION EXCEEDS ONE-SIXTH OF THE BEARING HEIGHT AT 60°F ± 10°F., THE GIRDERS SHALL BE RAISED TO ALLOW THE BEARINGS TO RETURN TO THEIR UNDEFORMED SHAPE AT 60°F ± 10°F.
- 4. HP STEEL SHAPE HP 12 X 53 AND LOAD PLATE SHALL BE ASTM A572. YIELD STRENGTH 50,000 PSI AND SHALL BE INCLUDED WITH ITEM 516, ELASTOMERIC BEARING, FOR PAYMENT.
- 5. FIELD DRILLING OF VENT HOLES IN EXISTING BEAMS AT ABUTMENTS SHALL BE INCLUDED WITH ITEM 516, ELASTOMERIC BEARING, FOR PAYMENT.
- 6. FOR ADDITIONAL FIELD SPLICE DETAILS REFER TO ODOT STANDARD BRIDGE DRAWING BS-1-93
- 7. HIGH STRENGTH BOLTS SHALL BE 1 1/8" DIAMETER A325, GALVANIZED.

ELASTOMERIC BEARING REQUIREMENTS													
DEADINO		10			TOTAL LOAD		3.4.6	ti	te	NO. OF		LOAD	DEPTH OF HP
BEARING	BEARING	NO.	(DL)	(LL)	(DL+LL)	Le		NOTHICK.	NOTHICK.	INTERNAL		PLATE	STEEL SHAPE
LOCATION	TYPE	REQUIRED	KIPS	KIPS	KIPS	IN.	Z.	IN.	IN.	LAMINATES	IN.	IN. x IN.x IN.	"A" (IN.)
REAR ABUTMENT FORWARD ABUTMENT	EXPANSION	24	56	51	107	8 1/2	12	6 - 0.27	2 - 0.19	7-0.0747	2.52	$1\frac{1}{2} \times 10\frac{1}{2} \times 1'-2"$	7 3/4 7 5/8
PIERS 1 AND 3	EXPANSION	24	144	66	210	12	19	5 - 0.35	2 - 0.27	6-0.0747	2.74	2 X 1'-2" X 1'-9"	NONE
PIER 2	EXPANSION	12	160	71	231	13	19	5 — 0.37	2 - 0.27	6-0.0747	2.84	2 X 1'-3" X 1'-9"	NONE

LAMINATED ELASTOMERIC EXPANSION BEARING

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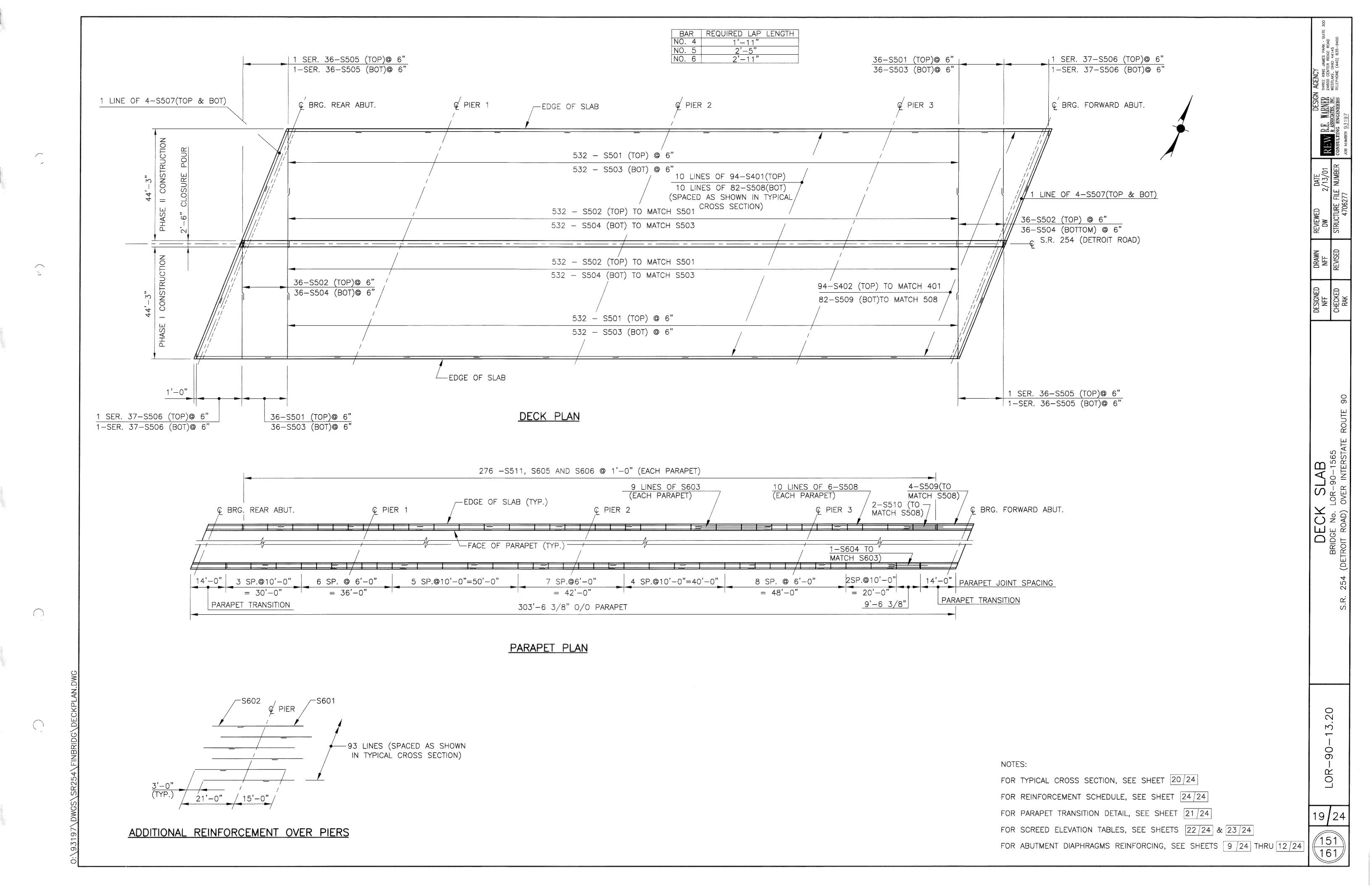
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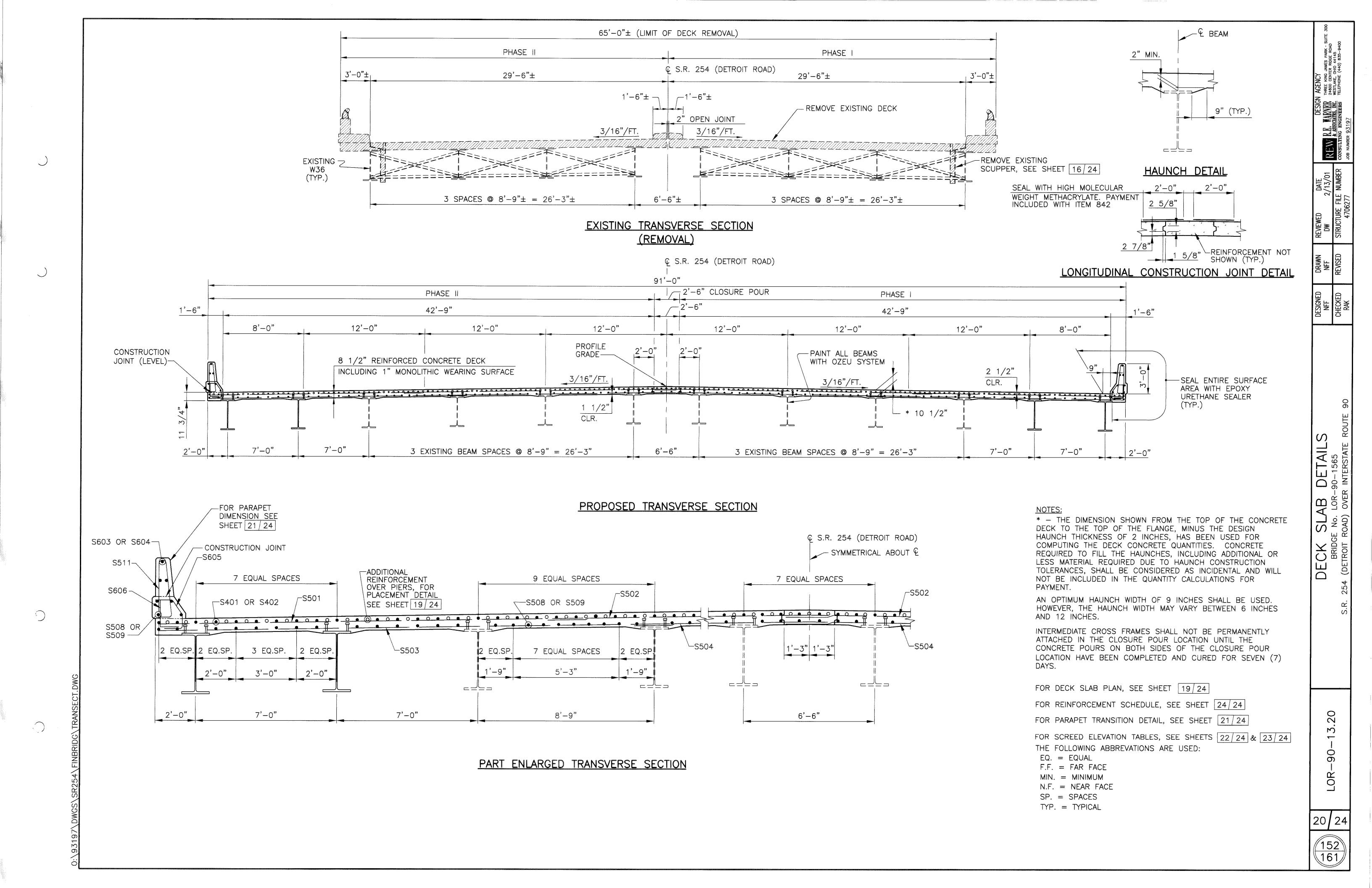
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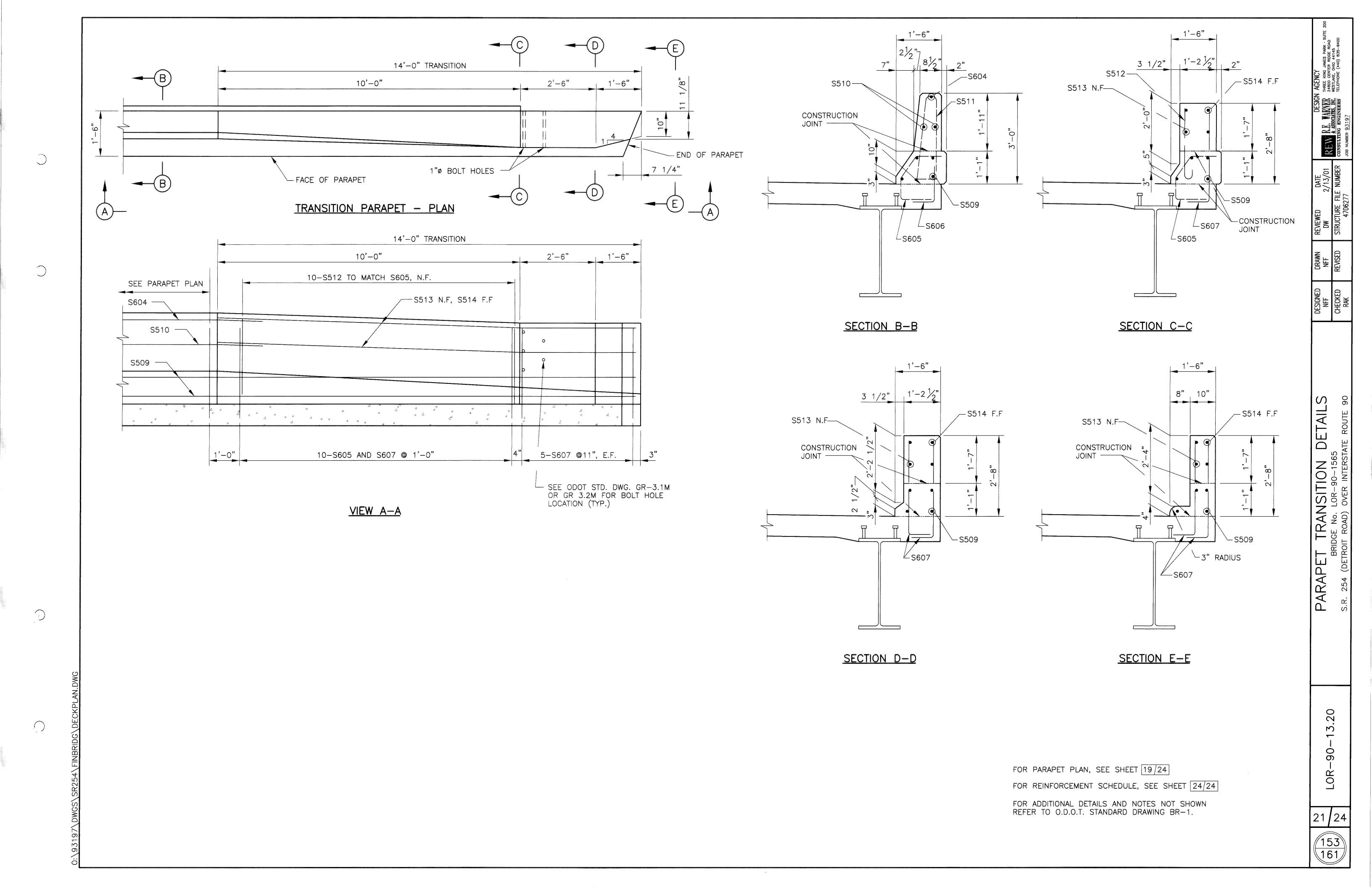
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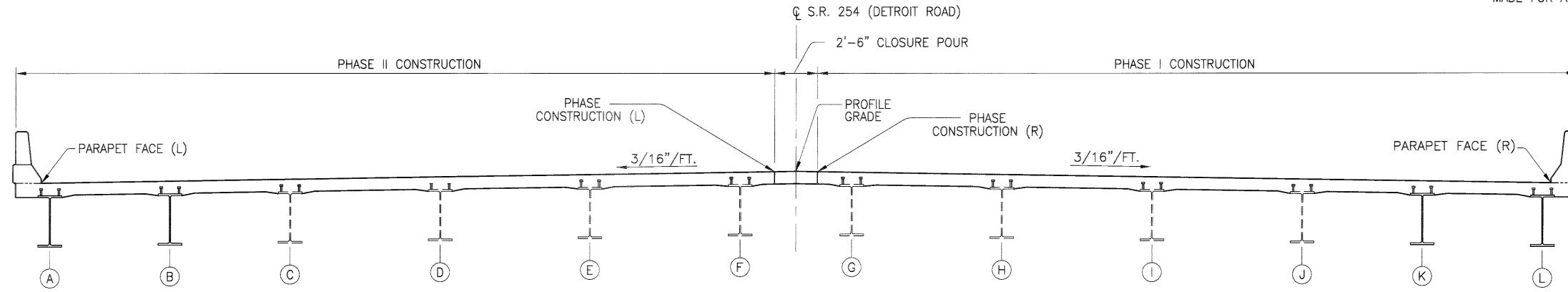


	, , , , , , , , , , , , , , , , , , , ,	Ç BRG.		SPAN 1	WXX ZZA	Ç BRG.		SPAN 2		Ç BRG.		SPAN 3		Ç BRG.		SPAN 4		Ç BRG.
LOCATION		REAR ABUT.	1/4 PT.	1/2 PT.	3/4 PT.	PIER 1	1/4 PT.	1/2 PT.	3/4 PT.	PIER 2	1/4 PT.	1/2 PT.	3/4 PT.	PIER 3	1/4 PT.	1/2 PT.	3/4 PT.	FWD. ABUT.
	STATION	85+41.13	85+56.70	85+72.07	86+87.43	86+02.79	86+24.79	86+46.79	86+68.79	86+90.79	87+12.78	87+34.76	87+56.75	87+78.74	87+94.06	88+09.38	88+24.70	88+40.02
PARAPET	PROFILE GRADE ELEVATION	677.76	677.71	677.65	677.59	677.54	677.46	677.38	677.30	677.22	677.14	677.06	676.98	676.90	676.84	676.79	676.73	676.67
FACE (R)	FINAL DECK ELEVATION	677.08	677.02	676.96	676.91	676.85	676.77	676.69	676.61	676.53	676.45	676.37	676.29	676.21	676.16	676.10	676.04	675.99
	DEAD LOAD DEFLECTION	0.00	0.03	0.03	0.02	0.00	0.06	0.08	0.05	0.00	0.05	0.08	0.06	0.00	0.02	0.03	0.03	0.00
	SCREED ELEVATION	677.08	677.05	676.99	676.93	676.85	676.83	676.76	676.66	676.53	676.49	676.45	676.34	676.21	676.18	676.13	676.07	675.99
	STATION	85+41.34	85+56.70	85+72.07	85+87.43	86+02.79	86+24.79	86+46.79	86+68.79	86+90.79	87+12.78	87+34.76	87+56.75	88+78.74	87+94.06	88+09.38	88+24.70	88+40.02
	PROFILE GRADE ELEVATION	677.76	677.71	677.65	677.59	677.54	677.46	677.36	677.30	677.22	677.14	677.06	676.98	676.90	676.84	676.79	676.73	676.67
BEAM L	FINAL DECK ELEVATION	677.08	677.03	676.97	676.92	676.86	676.78	676.70	676.62	676.54	676.46	676.38	676.30	676.22	676.16	676.11	676.05	676.00
	DEAD LOAD DEFLECTION	0.00	0.03	0.03	0.02	0.00	0.06	0.08	0.05	0.00	0.05	0.08	0.06	0.00	0.02	0.03	0.03	0.00
	SCREED ELEVATION	677.08	677.06	677.00	676.94	676.86	676.84	676.78	676.67	676.54	676.51	676.46	676.36	676.22	676.18	676.14	676.08	676.00
	STATION	85+44.14	85+59.50	85+74.87	85+90.23	86+05.59	86+27.59	86+49.59	86+71.59	86+93.59	87+15.58	87+37.56	87+59.55	87+81.54	87+96.86	88+12.18	88+27.50	88+42.82
	PROFILE GRADE ELEVATION	677.75	677.70	677.64	677.58	677.53	677.45	677.37	677.29	677.21	677.13	677.05	676.97	676.89	676.83	676.78	676.72	676.66
BEAM K	FINAL DECK ELEVATION	677.18	677.13	677.07	677.01	676.96	676.88	676.80	676.72	676.64	676.56	676.48	676.40	676.32	676.26	676.21	676.15	676.09
	DEAD LOAD DEFLECTION	0.00	0.03	0.03	0.02	0.00	0.06	0.08	0.05	0.00	0.05	0.08	0.06	0.00	0.02	0.03	0.03	0.00
	SCREED ELEVATION	677.18	677.16	677.10	677.03	676.96	676.94	676.88	676.77	676.64	676.61	676.56	676.46	676.32	676.28	676.24	676.18	676.09
	STATION	85+46.95	85+62.31	85+77.68	85+93.04	86+08.40	86+30.40	86+52.40	86+74.40	86+96.40	87+18.39	87+40.37	87+62.36	87+84.35	87+99.67	88+14.99	88+30.31	88+45.63
	PROFILE GRADE ELEVATION	677.74	677.69	677.63	677.57	677.52	677.44	677.36	677.28	677.20	677.12	677.04	676.96	676.88	676.82	676.77	676.71	676.65
BEAM J	FINAL DECK ELEVATION	677.28	677.22	677.17	677.11	677.06	676.98	676.90	676.82	676.74	676.66	676.58	676.50	676.42	676.36	676.31	676.25	676.19
	DEAD LOAD DEFLECTION	0.00	0.02	0.02	0.01	0.00	0.04	0.07	0.04	0.00	0.04	0.07	0.04	0.00	0.01	0.02	0.02	0.00
	SCREED ELEVATION	677.28	677.24	677.19	677.12	677.06	677.02	676.97	676.86	676.74	676.70	676.65	676.54	676.42	676.37	676.33	676.27	676.19
	STATION	85+50.46	85+65.82	85+81.19	85+96.55	86+11.91	86+33.91	86+55.91	86+77.91	86+99.91	87+21.90	87+43.88	87+65.87	87+87.86	88+03.18	88+18.50	88+33.82	88+49.14
	PROFILE GRADE ELEVATION	677.73	677.67	677.62	677.56	677.50	677.42	677.34	677.26	677.18	677.10	677.02	676.94	676.86	676.81	676.75	676.70	676.64
BEAM I	FINAL DECK ELEVATION	677.40	677.35	677.29	677.24	677.18	677.10	677.02	676.94	676.86	676.78	676.70	676.62	676.54	676.48	676.43	676.37	676.32
	DEAD LOAD DEFLECTION	0.00	0.02	0.02	0.01	0.00	0.04	0.07	0.04	0.00	0.04	0.07	0.04	0.00	0.01	0.02	0.02	0.00
	SCREED ELEVATION	677.40	677.37	677.31	677.25	677.18	677.14	677.09	676.98	676.86	676.82	676.77	676.66	676.54	676.49	676.45	676.39	676.32
	STATION	85+53.97	85+69.33	85+84.70	86+00.06	86+15.42	86+37.42	86+59.42	86+81.42	87+03.42	87+25.41	87+47.39	87+69.38	87+91.37	88+06.69	88+22.01	88+37.33	88+52.65
	PROFILE GRADE ELEVATION	677.72	677.66	677.60	677.55	677.49	677.41	677.33	677.25	677.17	677.09	677.01	676.93	676.85	676.80	676.74	676.68	676.63
BEAM H	FINAL DECK ELEVATION	677.53	677.47	677.42	677.36	677.30	677.22	677.14	677.06	676.98	676.90	676.82	676.74	676.66	676.61	676.55	676.50	676.44
	DEAD LOAD DEFLECTION	0.00	0.02	0.02	0.01	0.00	0.04	0.07	0.04	0.00	0.04	0.07	0.04	0.00	0.01	0.02	0.02	0.00
	SCREED ELEVATION	677.53	677.49	677.44	677.37	677.30	677.26	677.21	677.10	676.98	676.94	676.89	676.78	676.66	676.62	676.57	676.52	676.44
	STATION	85+57.48	85+72.84	85+88.21	86+03.57	86+18.93	86+40.93	86+62.93	86+84.93	87+06.93	87+28.92	87+51.60	87+72.89	87+94.88	88+10.20		88+40.84	88+56.16
	PROFILE GRADE ELEVATION	677.70	677.65	677.59	677.54	677.40	677.40	677.32	677.24	677.16	677.08	677.00	676.92	676.84	676.78	676.73	676.67	676.62
BEAM G	FINAL DECK ELEVATION	677.65	677.60	677.54	677.48	677.43	677.35	677.27	677.19	677.11	677.03	676.95	676.87	676.79	676.76	676.68	676.62	676.56
	DEAD LOAD DEFLECTION	0.00	0.02	0.02	0.01	0.00	0.04	0.07	0.04	0.00	0.04	0.07	0.04	0.00	0.01	0.02	0.02	0.00
	SCREED ELEVATION	677.65	677.62	677.56	677.49	677.43	677.39	677.34	677.23	677.11	677.07	677.02	676.91	676.79	676.77	676.70	676.64	676.56
	STATION	85+58.18	85+73.54	85+88.91	86+04.27	86+19.63	86+41.63	86+63.63	86+85.63	87+07.63	87+29.62	87+50.90	87+73.59	87+95.58	88+10.90		88+41.54	88+56.86
PHASE	PROFILE GRADE ELEVATION	677.70	677.64	677.59	677.53	677.48	677.40	677.32	677.24	677.16	677.08	677.00	676.92	676.84	676.78	676.72	676.67	676.61
CONSTRUCTION	FINAL DECK ELEVATION	677.68	677.62	677.57	677.51	677.46	677.38	677.30	677.22	677.14	677.06	676.98	676.90	676.82	676.76	676.71	676.65	676.59
(R)	DEAD LOAD DEFLECTION	0.00	0.02	0.02	0.01	0.00	0.04	0.07	0.04	0.00	0.04	0.07	0.04	0.00	0.01	0.02	0.02	0.00
	SCREED ELEVATION	677.68	677.64	677.59	677.52	677.46	677.42	677.37	677.26	677.14	677.10	677.05	676.94	676.82	676.77	676.73	676.67	676.59

PHASE I SCREED ELEVATIONS

NOTE:
SCREED ELEVATIONS ARE FOR THE DECK SLAB SURFACE
PRIOR TO CONCRETE PLACEMENT. ALLOWANCE HAS BEEM
MADE FOR ANTICIPATED CALCULATED DEAD LOAD DEFLECTIONS.

PARAPET FACE (R)



PROPOSED TRANSVERSE SECTION

PHASE I SCREED ELEV BRIDGE No. LOR-90-1565

.0R-90-13.20

22/24

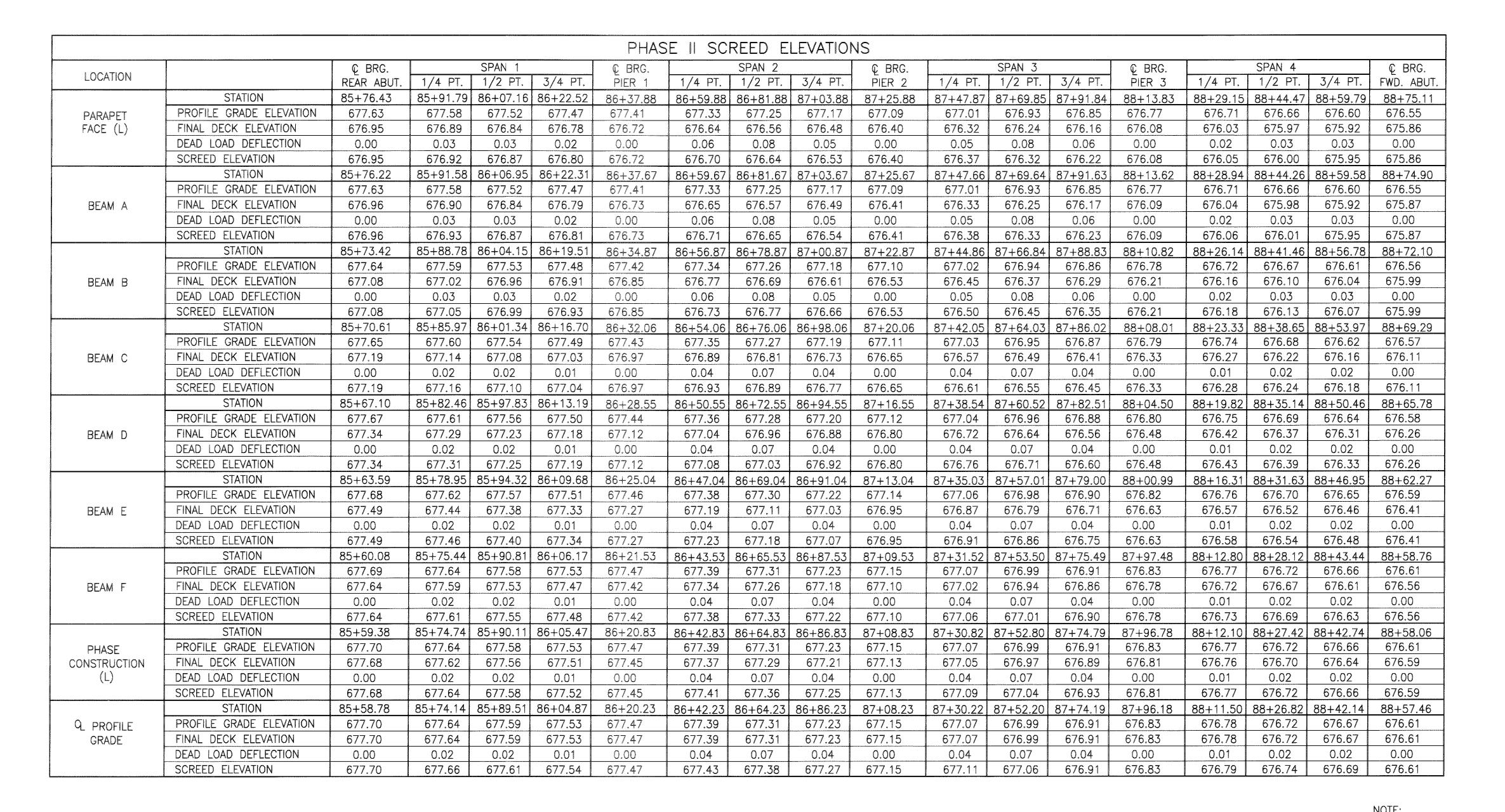
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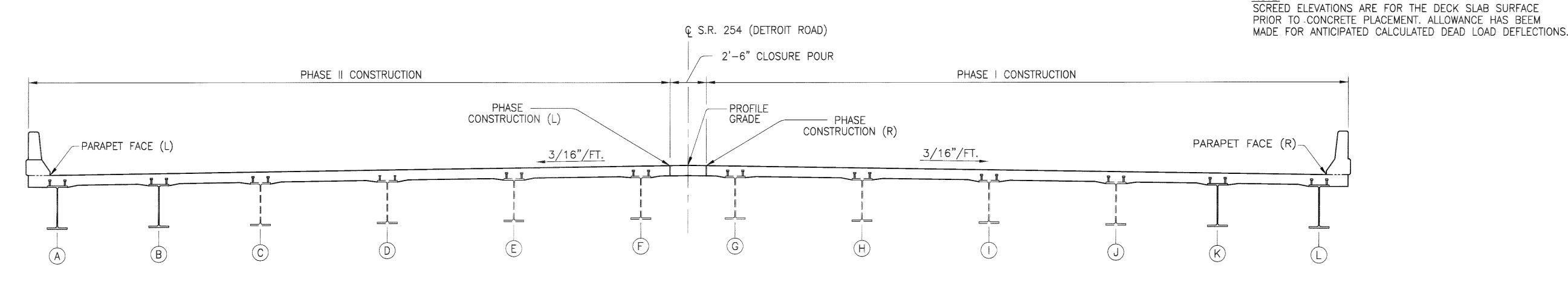
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	NUMBER					DIMENSIONS			WEIGHT
MARK	REQ'D	LENGTH	TYPE	Α	В	С	D	INC	(POUNDS
		SERVICE AND ADDRESS OF THE PARTY OF THE PART			L <u> </u>				
		77.700.00	THE CONTRACT OF THE CONTRACT O	T AIN A	T TWILI	<u> </u>			
RA501	39	17'-4 1/2"	2	5'-9"	2'-9"	TO THE PERSON NAMED IN COLUMN			707
RA502	6	25'-2"	STR.						158
RA503	7	19'-4"	1	2'-2"	8'-8 1/2'	'8'-8 1/2"		****	141
RA504 RA505	3 3	11'-1"	STR. STR.						35 32
RA506	1	6'-7"	1	2'-2"	2'-4"	2'-4"			7
RA507 _	1	7'-2"	1	2'-2"		2'-7 1/2"			8
RA508	1	8'-9"	1	2'-2"	3'-5"	3'-5"			9
RA509	1	10'-3"	1	2'-2"	4'-2"	4'-2"			11
RA510 RA511	3 2	11'-0" 8'-6"	1 STR.	2'-2"	4-6 1/2	4'-6 1/2"			35 18
RA512	2	7'-6"	STR.						16
RA513	1 1	7'-2"	STR.		PRINCIPAL AND				8
RA514	1	6'-2"	STR.				***************************************		7
RA515	1	9'-0"	4	4'-11"	4'-1"				10
RA516 RA517	1 2	8'-0" 17'-11"	4 STR.	4'-11"	3'-1"				8
RA517 RA518	2	19'-5"	STR.		WINDS AND				38 41,
RA519	25	19'-7"	2	3'-5"	6'-2"				511
RA520	5	13'-3"	2	3'-5"	3'-0"				69
RA521	66	13'-7"	2	3'-7"	3'-0"			0000	935
RA522	66	7'-7"	1	2'-10"	2'-6"	2'-6"			522
RA523 RA524	6	28'-11" 12'-6"	STR.						181
RA524 RA525	3	13'-6"	STR.				 		39 42
RA526	1	17'-11"	1	2'-2"	8'-0"	8'-0"			19
RA527	5	19'-5"	1	2'-2"	8'-9"	8'-9"			102
RA528	1	13'-1"	Q ************************************	2'-2"	5'-7"	5'-7"			14
RA529	2	9'-11"	STR.	Valuation (VV)					21
RA530	2	10'-11" 7'-3"	STR.					777777777777777777777777777777777777777	23
RA531 RA532	1	8'-3"	STR. STR.					ETT-2000	8 9
RA533	1	10'-6 1/2"	4	6'-4"	4'-2 1/2"		***************************************	***************************************	11
RA534	1	11'-6 1/2"	4	6'-4"	5'-2 1/2"				12
	1 SERIES	7'-5"		2'-2"	2'-9"	2'-9"			
RA535	OF	TO	1	9		- 12		9"	28
D & E 7.0	3 BARS	10'-5"		2'-2"	4'-3"	4'-3"		THE STATE OF THE S	7.4
RA536 RA537	3 2	10'-9" 21'-3 1/2"	STR.	2'-2"	4'-6"	4'-6"			34 45
RA538	2	19'-11"	STR.	1.0/Miles		Control of the Contro			42
RA539	24	3'-7"	STR.						90
RA801	4	25'-2"	STR.						269
RA802	1 SERIES OF	19'-5" TO	STR.					6"	199
NAGOZ	4 BARS	17'-11"	JIN.		·			0	133
RA803	12	28'-2"	STR.		<u> </u>				903
RA804	12	24'-3"	STR.						777
RA805	4	28'-11"	STR.		T. TOTAL TOT				309
DVOVE	1 SERIES	ļ	C TD					5 1/8"	220
RA806	OF 4 BARS	TO 19'-11"	STR.					J 1/0	220
RA807	24	27'-9"	STR.						1778
RA808	66	4'-4"	7	1'-0"	2'-10"	Control of the Contro			764
TO = 11									
TOTAL WEI	GHT REAR	ABUTMEN	··· · · · · · · · · · · · · · · · · ·			1 T & 1 T			9,265
			FC	KWAKD	ABUTM	1EN I	=	,	
FA501	39	17'-4 1/2"	2	5'-9"	2'-9"				707
FA501 FA502	6	28'-11"	STR.	J — 3	∠ – 9				181
FA503	3	12'-6"	STR.						39
FA504	3	13'-6"	STR.						42
FA505		18'-1"	1	2'-2"	8'-1"	8'-1"	7777		19
FA506	5	19'-5"	1	2'-2"	8'-9" 5' 7"	8'-9"	THE AN ACCIONAL		102
FA507 FA508	2	13'-1" 9'-11"	STR.	2'-2"	5'-7"	5'-7"			14
FA506 FA509	2	10'-11"	STR.						23
FA510	1	7'-3"	STR.						8
FA511	1	8'-3"	STR.				Ункроинения		9
FA512	1	10'-6 1/2"	4	6'-4"	4'-2 1/2'		A REPORT AND		11
FA513		11'-6 1/2"	4	6'-4"	5'-2 1/2"	0 2 - 1°		··· ·	12
C A C 1 4	1 SERIES		A Commentary of the Comment of the C	2'-2"	2'-9"	2'-9"		9"	00
FA514	OF 3 BARS	T0 10'-5"	Date of the second	2'-2"	4'-3"	4'-3"		Э	28
FA515	3 BARS	11'-1"	1	2'-2"	4-3 4'-7"	4-3	Property		35
FA516	25	19'-7"	2	3'-5"	6'-2"	3 /	TAX STATE COLUMN TO THE COLUMN		511
1									
FA517	5	13'-9"	2	3'-5"	3'-4"				72

	77			<u> </u>	CHEDUL				
	NUMBER	IFNICTI	TYPE			IMENSIONS	5		WEIGHT
MARK	REQ'D	LENGTH		А	В	С	D	INC	(POUNDS
	<u> </u>								
			WARD	<u> ABU IM</u>	IENI (C	<u>ONTINU</u>	<u> </u>	· ₁ · · · · · · · · · · · · · · · · · · ·	
FA519	2	19'-11"	STR.		-1 -12			WALL THE	42
FA520	66	13'-7"	2	3'-7"	3'-0"	- 3 - 22			935
FA521	66	7'-7"	1	2'-10"	2'-6"	2'-6"			522
FA522	6	25'-2"	STR.	5 99					158
FA523	7	20'-6"	1	3'-5"	8'-8"	8'-8"			150
FA524	3	11, -1,	STR.			Prillipping and the state of th	Threshold and the second and the sec	17.00	35
FA525	3	10'-1"	STR.	, Add the second					32
FA526	1	6'-7"	1	2'-2"	2'-4"	2'-4"			7
FA527	quos	7'-2"	1	2'-2"	2'-7 1/2"				8
FA528	quant	8'-11"	1	2'-2"	3'-6"	3'-6"			10
FA529	Tunny	10'-5"	1	2'-2"	4'-3"	4'-3"		THE STATE OF THE S	11
FA530	3	11'-1"	1	2'-2"	4'-7"	4'-7"			12
FA531	2	8'-6"	STR.	Anger	Large months of the state of th				18
FA532	2	7'-6"	STR.	AND A STATE OF THE					16
FA533	(moons)	7'-2"	STR.	The state of the s	The state of the s	of the state of th		, and a second	8
FA534	Queezooo	6'-2"	STR.		Paris —	THE PROPERTY PROPERTY AND ADDRESS AND ADDR		777	7
FA535	1	9'-0"	4	4'-11"	4'-1"				10
FA536	1	8'-0"	4	4'-11"	3'-1"				9
FA537	2	17'-11"	STR.						38
FA538	2	19'-5"	STR.						41
FA539	24	3'-7"	STR.				<u> </u>	PER STATE OF THE S	90
			_ ····					12 h	
FA801	4	28'-11"	STR.						309
	j.	21'-3 1/2"	<u> </u>						
FA802	OF	TO	STR.					5 1/2"	220
	4 BARS	19'-11"	ه ۱۱۷۰ سب						
FA803	24	26'-6"	STR.]				Li Li	1698
FA804	68	4'-4"	7	1'-0"	2'-10"				787
FA805	4	25'-2"	STR.	, 0	10				269
1 7000	1 SERIES	1	J 111.						203
FA806	OF	TO	STR.					6"	199
r AOUU	•	17'-11"	SIR.					D C	199
FA807	4 BARS 12	28'-2"	STR.						903
FA808	12	24'-3"	STR.						777
I AOUO		Z4 - J	3111.						
COTAL SAME									8
JIAI WE	GHT FORW	ARD ABUT	MENT (F	OR INFORM	MATION ON	 JI Y)			9 1 9 9
UIAL WEI	GHT FORW	ARD ABUT	MENT (F			NLY)			9,199
UTAL WEI	GHT FORW	ARD ABUT	MENT (F	OR INFORM		NLY)		1	9,199
				PIER N	lo. 1	NLY)			
SPA401	GHT FORW	ARD ABUT	MENT (F			NLY)			9,199
SPA401	2	15'-0"	8	PIER N 4 1/2"	Vo. 1				
SPA401 PA501	2 76	15'-0" 8'-5"	8	PIER N	lo. 1	3'-0"			20 668
SPA401 PA501 PA502	2 76 12	15'-0" 8'-5" 16'-1"	8	PIER N 4 1/2" 2'-8"	2'-8" 3'-0"	3'-0"			20 668 201
SPA401 PA501 PA502 PA503	2 76 12 6	15'-0" 8'-5" 16'-1" 7'-5"	8 1 STR, 1	PIER N 4 1/2"	Vo. 1				20 668 201 47
SPA401 PA501 PA502 PA503	2 76 12	15'-0" 8'-5" 16'-1" 7'-5" 2'-8"	8 1 STR. 1 STR.	PIER N 4 1/2" 2'-8"	2'-8" 3'-0" 2'-6"	3'-0"			20 668 201 47 112
SPA401 PA501 PA502 PA503 PA504	76 12 6 40 84	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4"	8 1 STR. 1 STR. 3	PIER N 4 1/2" 2'-8"	2'-8" 3'-0"	3'-0"			20 668 201 47 112 379
SPA401 PA501 PA502 PA503 PA504 PA505	76 12 6 40	15'-0" 8'-5" 16'-1" 7'-5" 2'-8"	8 1 STR. 1 STR.	PIER N 4 1/2" 2'-8"	2'-8" 3'-0" 2'-6"	3'-0"			20 668 201 47 112
SPA401 PA501 PA502 PA503 PA504 PA505	76 12 6 40 84	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0"	8 1 STR. 1 STR. 3 STR.	PIER N 4 1/2" 2'-8" 2'-8"	2'-8" 3'-0" 2'-6"	3'-0"			20 668 201 47 112 379
SPA401 PA501 PA502 PA503 PA504 PA505 PA506	76 12 6 40 84	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0"	8 1 STR. 1 STR. 3 STR.	PIER N 4 1/2" 2'-8" 2'-8" 2'-8"	2'-8" 3'-0" 2'-6"	3'-0"			20 668 201 47 112 379
SPA401 PA501 PA502 PA503 PA504 PA505 PA506	2 76 12 6 40 84 6	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0"	8 1 STR. 1 STR. 3 STR.	PIER N 4 1/2" 2'-8" 2'-8"	2'-8" 3'-0" 2'-6"	3'-0"			20 668 201 47 112 379 19
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902	2 76 12 6 40 84 6	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0"	8 1 STR. 1 STR. 3 STR.	PIER N 4 1/2" 2'-8" 2'-8" 2'-8"	2'-8" 3'-0" 2'-6"	3'-0"			20 668 201 47 112 379 19
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903	2 76 12 6 40 84 6	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0"	8 1 STR. 1 STR. 3 STR.	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 10'-6"	2'-8" 3'-0" 2'-6" 1'-11"	3'-0"			20 668 201 47 112 379 19 599 1061
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904	2 76 12 6 40 84 6	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6"	8 1 STR. 1 STR. 3 STR. 5 5	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 10'-6"	2'-8" 3'-0" 2'-6" 1'-11"	3'-0"			20 668 201 47 112 379 19 599 1061 830
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905	2 76 12 6 40 84 6	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2"	8 1 STR. 1 STR. 3 STR. 5 5 5 3 STR.	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8"	2'-8" 3'-0" 2'-6" 1'-11"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905	2 76 12 6 40 84 6 16 24 24 24 24	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6"	8 1 STR. 1 STR. 3 STR. 5 5 5 3 STR.	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1"	2'-8" 3'-0" 2'-6" 1'-11"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906	2 76 12 6 40 84 6 16 24 24 24 24 16 10	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2"	8 1 STR. 1 STR. 3 STR. 5 5 3 STR. 5	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3"	2'-8" 2'-6" 1'-11" 3'-2"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906	2 76 12 6 40 84 6 16 24 24 24 24	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2"	8 1 STR. 1 STR. 3 STR. 5 5 3 STR. 5	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3"	2'-8" 3'-0" 2'-6" 1'-11" 3'-2"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906	2 76 12 6 40 84 6 16 24 24 24 24 16 10	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2"	8 1 STR. 1 STR. 3 STR. 5 5 3 STR. 5	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3"	2'-8" 3'-0" 2'-6" 1'-11" 3'-2"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI	2 76 12 6 40 84 6 16 24 24 24 24 16 10	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2" No. 1 (FOR	8 1 STR. 1 STR. 3 STR. 5 3 STR. 5 3	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N	3'-0" 2'-6" 1'-11" 1'-4" 3'-2" ILY)	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI	2 76 12 6 40 84 6 16 24 24 24 24 16 10	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2"	8 1 STR. 1 STR. 3 STR. 5 5 3 STR. 5	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3"	2'-8" 3'-0" 2'-6" 1'-11" 3'-2"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI	2 76 12 6 40 84 6 16 24 24 24 24 16 10 GHT PIER	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2" No. 1 (FOR	8 1 STR. 1 STR. 3 STR. 5 3 STR. 5 3 STR. 5 3	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N 4 1/2"	2'-8" 3'-0" 2'-6" 1'-11" 3'-2" ILY) IO. 2 2'-8"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI	2 76 12 6 40 84 6 16 24 24 24 16 10 GHT PIER	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2" No. 1 (FOR	8 1 STR. 1 STR. 3 STR. 5 3 STR. 5 3 STR. 5 3 STR. 7 8 INFORM	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N	3'-0" 2'-6" 1'-11" 1'-4" 3'-2" ILY)	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI	2 76 12 6 40 84 6 16 24 24 24 24 16 10 GHT PIER	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2" No. 1 (FOR	8 1 STR. 1 STR. 3 STR. 5 5 3 STR.	PIER N 4 1/2" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N 4 1/2" 2'-8"	2'-8" 3'-0" 2'-6" 1'-11" 3'-2" ILY) Io. 2 2'-8" 3'-0"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950
SPA401 PA501 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI	2 76 12 6 40 84 6 16 24 24 24 24 16 10 GHT PIER 2 76 12 6	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2" No. 1 (FOR	8 1 STR. 1 STR. 3 STR. 5 3 STR. 5 3 STR. 5 3 STR. 1 STR. 1	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N 4 1/2"	2'-8" 3'-0" 2'-6" 1'-11" 3'-2" ILY) IO. 2 2'-8"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950 19 668 201 47
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI SPB401 PB501 PB501 PB502 PB503 PB504	2 76 12 6 40 84 6 16 24 24 24 24 16 10 GHT PIER	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 17'-6" 17'-2" 19'-2" No. 1 (FOR	8 1 STR. 1 STR. 3 STR. 5 5 3 STR. 5 3 STR. 1 STR. 1 STR. 1 STR.	PIER N 4 1/2" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N 4 1/2" 2'-8"	3'-0" 2'-6" 1'-11" 1'-4" 3'-2" ILY) 10. 2 2'-8" 3'-0"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI SPB401 PB501 PB501 PB502 PB503 PB504	2 76 12 6 40 84 6 16 24 24 24 24 16 10 GHT PIER 2 76 12 6	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2" No. 1 (FOR	8 1 STR. 1 STR. 3 STR. 5 3 STR. 5 3 STR. 5 3 STR. 1 STR. 1	PIER N 4 1/2" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N 4 1/2" 2'-8"	2'-8" 3'-0" 2'-6" 1'-11" 3'-2" ILY) Io. 2 2'-8" 3'-0"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950 19 668 201 47
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI SPB401 PB501 PB501 PB502 PB503 PB504 PB505	2 76 12 6 40 84 6 16 24 24 24 16 10 GHT PIER 2 7 6 12 6 40	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 17'-6" 17'-2" 19'-2" No. 1 (FOR	8 1 STR. 1 STR. 3 STR. 5 5 3 STR. 5 3 STR. 1 STR. 1 STR. 1 STR.	PIER N 4 1/2" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N 4 1/2" 2'-8"	3'-0" 2'-6" 1'-11" 1'-4" 3'-2" ILY) 10. 2 2'-8" 3'-0"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950 19 668 201 47 112
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906	2 76 12 6 40 84 6 16 24 24 24 16 10 GHT PIER 76 12 6 40 84	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2" No. 1 (FOR	8 1 STR. 1 STR. 3 STR. 5 5 3 STR. 5 3 STR. 5 1 STR. 3	PIER N 4 1/2" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N 4 1/2" 2'-8"	3'-0" 2'-6" 1'-11" 1'-4" 3'-2" ILY) 10. 2 2'-8" 3'-0"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950 19 668 201 47 112 416
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI SPB401 PB501 PB501 PB502 PB503 PB504 PB505	2 76 12 6 40 84 6 16 24 24 24 16 10 GHT PIER 76 12 6 40 84	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2" No. 1 (FOR	8 1 STR. 1 STR. 3 STR. 5 5 3 STR. 5 3 STR. 5 1 STR. 3	PIER N 4 1/2" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N 4 1/2" 2'-8"	3'-0" 2'-6" 1'-11" 1'-4" 3'-2" ILY) 10. 2 2'-8" 3'-0"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950 19 668 201 47 112 416
SPA401 PA501 PA502 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI SPB401 PB501 PB501 PB502 PB503 PB504 PB505 PB506 PB901	2 76 12 6 40 84 6 16 24 24 24 16 10 GHT PIER 2 76 12 6 40 84 6 16 16	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2" No. 1 (FOR STATE OF STA	8 1 STR. 1 STR. 3 STR. 5 5 3	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N 4 1/2" 2'-8" 2'-8"	3'-0" 2'-6" 1'-11" 1'-4" 3'-2" ILY) 10. 2 2'-8" 3'-0"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950 19 668 201 47 112 416 19
SPA401 PA501 PA502 PA503 PA506 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI SPB401 PB501 PB501 PB502 PB503 PB504 PB505 PB506 PB901 PB902	2 76 12 6 40 84 6 16 24 24 24 16 10 GHT PIER 2 76 12 6 40 84 6 16 10 84 6	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2" No. 1 (FOF 14'-3" 8'-5" 16'-1" 7'-5" 2'-8" 4'-9" 3'-0" 11'-0" 13'-0"	8 1 STR. 1 STR. 3 STR. 5 3	PIER N 4 1/2" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N 4 1/2" 2'-8" 2'-8"	3'-0" 2'-6" 1'-11" 1'-4" 3'-2" ILY) 10. 2 2'-8" 3'-0"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950 19 668 201 47 112 416 19 599 1061
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SPA401 PA501 PA503 PA504 PA505 PA506 PA901 PA902 PA903 PA904 PA905 PA906 OTAL WEI SPB401 PB501 PB502 PB503 PB504 PB505 PB506 PB901 PB902 PB903 PB904 PB905	2 76 12 6 40 84 6 16 24 24 16 10 GHT PIER 76 12 6 40 84 6 16 12 6 40 84 6 16 12 6 40 84 6	15'-0" 8'-5" 16'-1" 7'-5" 2'-8" 4'-4" 3'-0" 11'-0" 13'-0" 10'-2" 17'-6" 17'-2" 19'-2" No. 1 (FOF 14'-3" 8'-5" 16'-1" 7'-5" 2'-8" 4'-9" 3'-0" 11'-0" 13'-0" 11'-0" 13'-0" 11'-2" 17'-2" 17'-2"	8 1 STR. 1 STR. 3 STR. 5 3 STR. 5 3 STR. 5 3 STR. 5 3 STR. 1 STR. 1 STR. 1 STR. 1 STR. 5 STR. 5 STR. 5 STR. 5 STR. 5 STR.	PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 8'-6" 10'-6" 9'-1" 14'-8" 16'-3" MATION ON PIER N 4 1/2" 2'-8" 2'-8" 2'-8" 10'-6" 9'-1" 14'-8"	2'-8" 3'-0" 2'-6" 1'-4" 3'-2" ILY) 10. 2 2'-8" 2'-6" 2'-4"	3'-0"			20 668 201 47 112 379 19 599 1061 830 1428 934 652 6,950 19 668 201 47 112 416 19 599 1061 830 1401 934
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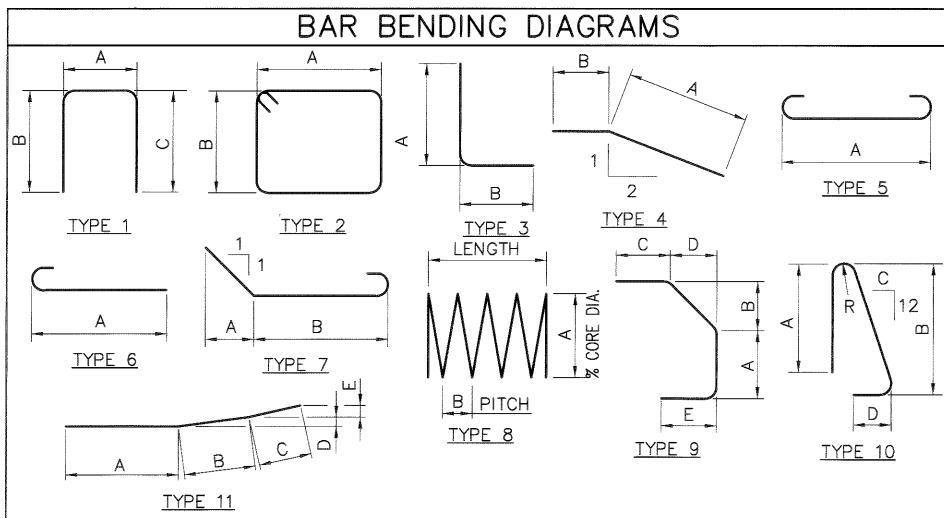
BAR SIZE IS INDICATED	IN THE BAR MARK.	THE FIRST LETTER IDENTIFIE	S THE BAR LOCATION,	THE NEXT TWO DIGITS INDICATE
THE BAR DESIGNATION.	THE REMAINING DIGI	ITS INDICATE THE SEQUENCE	NUMBER.	
EXAMPLE: A501				

A = LOCATION OF THE BAR IN THE STRUCTURE (ABUTMENT)

5 = BAR SIZE DESIGNATION (#5, 5/8")

01 = SEQUENCE NUMBER

PIER No. 3 No. 3	·				BAR S	CHEDUL	E					
NARK REG'D LENGTH TIPL A B C D INC (POUND		NIIMBER		Windows Continues of the Continues of th			IMENSION	S		WFIGHT		
PC501	MARK	B	LENGTH	IYPE	А	В	С	D	INC	(POUNDS)		
PC501												
PC502	SPC401	2	14'-3"	8	4 1/2"	2'-8"	THE PROPERTY OF THE PROPERTY O			19		
PC503	PC501	76	8'-5"	1	2'-8"	3'-0"	3'-0"			668		
PC504	PC502	12	16'-1"	STR.				Constant of the Constant of th		201		
PC505	PC503	6	7'-5"	1	2'-8"	2'-6"	2'-6"			47		
PC506 6	PC504	40		STR.	To a final and a f	The state of the s	And the second s			112		
PC901 16 11'-0" 5 8'-6" 599 PC902 24 13'-0" 5 10'-6" 1061 PC903 24 10'-2" 3 9'-1" 1'-4" 830 PC904 24 16'-10" STR. PC905 16 17'-2" 5 14'-8" 934 PC906 10 19'-2" 3 16'-3" 3'-2" 652 TOTAL WEIGHT PIER No. 3 (FOR INFORMATION ONLY) 6,895 SUPERSTRUCTURE S401 30'-0" STR. S501 25'-10" STR. S502 22'-4" STR. S503 21'-5" STR. S504 4 SERIES OF TO 36 BARS 46'-5" 10 37 BARS 46'-5" 11 10'-0" 2'-9" 8" 12,463 S501 15'-0" STR. S501 26'-3" STR. S508 30'-0" STR. S509 27'-4" STR. S508 30'-0" STR. S509 27'-4" STR. S509 27'-4" STR. S510 15'-0" STR. S511 6'-0" STR. S511 6'-0" STR. S512 3'-0" STR. S513 13'-5" 11 10'-0" 2'-5" 1'-0" 1 1/2" 5" (E) 112 S514 13'-10" STR. S601 25'-0" STR. S602 14'-0" STR. S603 30'-0" STR. S508 30'-0" STR. S508 S513 13'-5" 11 10'-0" 2'-5" 1'-0" 1 1/2" 5" (E) 112 S514 13'-10" STR. S604 31'-10" STR. S604 31'-10" STR.	PC505	84	.i	3	2'-8"	1'-11"				379		
PC902	PC506	6	3'-0"	STR.					000	19		
PC902	PC901	16	11'-0"	5	8'-6"				THE PROPERTY OF THE PROPERTY O	599		
PC903		24			10'-6"					 		
PC904			10'-2"			1'-4"				ł		
PC905	PC904	24		STR.						1374		
TOTAL WEIGHT PIER No. 3 (FOR INFORMATION ONLY) 6,895	PC905	16			14'-8"				and the state of t	934		
SUPERSTRUCTURE \$401 30'-0" \$TR. 18,838 \$402 22'-4" \$TR. 1,402 \$501 25'-10" \$TR. 30,609 \$502 23'-2" \$TR. 27,453 \$503 21'-5" \$TR. 25,380 \$504 27'-6" \$TR. 32,583 \$505 4 SERIES 3'-11" OF TO 36 BARS 46'-5" \$TR. 37,780 \$506 4 SERIES 1'-11" OF TO 37 STR. \$TR. 1'-2 5/8" 3,730 \$507 26'-3" STR. 438 \$508 30'-0" STR. 29,413 \$509 27'-4" STR. 29,413 \$501 15'-0" STR. 22,566 \$510 15'-0" STR. 63 \$511 6'-0" 10 2'-6" 2'-9" 8" 3,455 \$512 3'-0" 6 2'-5" 63 \$513 13'-5" 11 10'-0" 2'-5" 1'-0" 11/2" 5" (E) 112 \$514 13'-10" STR. 10,477 \$603 30'-0" STR. 3,911 \$603 30'-0" STR. 3,911	PC906	10	19'-2"	3	16'-3"	3'-2"			W. Control of the Con	652		
\$401 \$30'-0" \$TR. 18,838 \$402 \$22'-4" \$TR. 1,402 \$501 \$25'-10" \$TR. 30,609 \$502 \$23'-2" \$TR. 27,453 \$503 \$21'-5" \$TR. 25,380 \$504 \$27'-6" \$TR. 32,583 \$504 \$27'-6" \$TR. 32,583 \$505 \$4 SERIES 3'-11" OF TO STR. 37,800 37,800 \$506 \$4 SERIES 1'-11" OF TO STR. 1'-2 5/8" 3,730 \$507 \$6'-5" \$17-11" OF STR. 1'-2 7/8" 3,730 \$508 \$30"-0" STR. \$37.80 29,413 \$509 \$27'-4" STR. \$29,413 \$510 \$15'-0" STR. \$29,413 \$511 \$6'-0" 10 2'-6" 2'-9" 8" \$3,455 \$512 \$3'-0" 6 2'-5" 575 63 \$513 \$13'-5" \$11 10'-0" 2'-5" 1'-0" \$1 1/2" 5" (E) 112 \$514 \$13'-10" STR. \$10,477 \$602 \$14'-0" STR. \$10,477 \$603 \$30'-0" STR. \$10,477 \$604 \$31'-10" STR. \$192 </td <td>TOTAL WE</td> <td>IGHT PIER</td> <td>No. 3 (FC</td> <td>R INFOR</td> <td>MATION O</td> <td>NLY)</td> <td></td> <td></td> <td></td> <td>6,895</td>	TOTAL WE	IGHT PIER	No. 3 (FC	R INFOR	MATION O	NLY)				6,895		
\$402 \$22'-4" \$TR. 1,402 \$501 \$25'-10" \$TR. 30,609 \$502 \$23'-2" \$TR. 27,453 \$503 \$21'-5" \$TR. 25,438 \$504 \$27'-6" \$TR. 32,583 \$505 \$4 SERIES OF TO STR. 37,41" OF TO STR. 1'-2 5/8" 3,780 \$506 \$4 SERIES OF TO STR. \$10 STR. 1'-2 7/8" 3,730 \$507 \$4 SERIES OF TO STR. \$1'-2 7/8" 3,730 \$508 \$30'-0" \$TR. \$1'-2 7/8" 3,730 \$509 \$27'-4" \$TR. \$29,413 \$510 \$15'-0" \$TR. \$3,455 \$512 \$3'-0" \$6 \$2'-5" \$63 \$513 \$13'-5" \$11 \$10'-0" \$2'-5" \$1'-0" \$1 1/2" \$5" (E) \$112 \$601 \$25'-0" \$TR. \$10,477 \$602 \$14'-0" \$TR. \$110,477 \$603 \$30'-0" \$TR. \$110 \$604 \$31'-10" \$TR. \$192				SL	JPERSTI	RUCTUR	E					
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S603 30'-0" STR. 811 S604 31'-10" STR. 192										***************************************		
S604 31'-10" STR. 192						THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF TH				***************************************		
			-			Table and table						
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S606 3'-1 1/2" 3 11" 2'-4 1/2" 2,591								3	1			
S607 3'-10" 3 11" 3'-1" 461				3					The state of the s			
	TOTAL WE	GHT SUPFI	RSTRUCTUI	RE (FOR	INFORMA	TION ONLY)		1	201,074		



BAR DIMENSIONS SHAOWN ARE OUT-TO-OUT UNLESS NOTED. ALL REINFORCING STEEL IS TO BE EPOXY COATED. STRAIGHT BARS ARE INDICATED BY "STR."

SPACERS:

ATE CONCRETE SPACERS OR OTHER APPROVED NONCORROSIVE SPACING DEVICES SHALL BE USED AT SUFFICIENT INTERVALS (NEAR THE BOTTOM AND AT INTERVALS NOT EXCEEDING 10 FEET) TO ENSURE CONCENTRIC SPACING FOR THE ENTIRE CAGE LENGTH. SPACERS SHALL BE CONSTRUCTED OF APPROVED MATERIAL EQUAL IN QUALITY AND DURABILITY TO THE CONCRETE SPECIFIED FOR THE COLUMN. THE SPACERS SHALL HAVE ADEQUATE DIMENSIONS TO ENSURE A MINIMUM 3 INCH CLEARANCE BETWEEN THE OUTSIDE OF THE REINFORCING CAGE AND THE DESIGN DIMENSION OF THE COLUMN.

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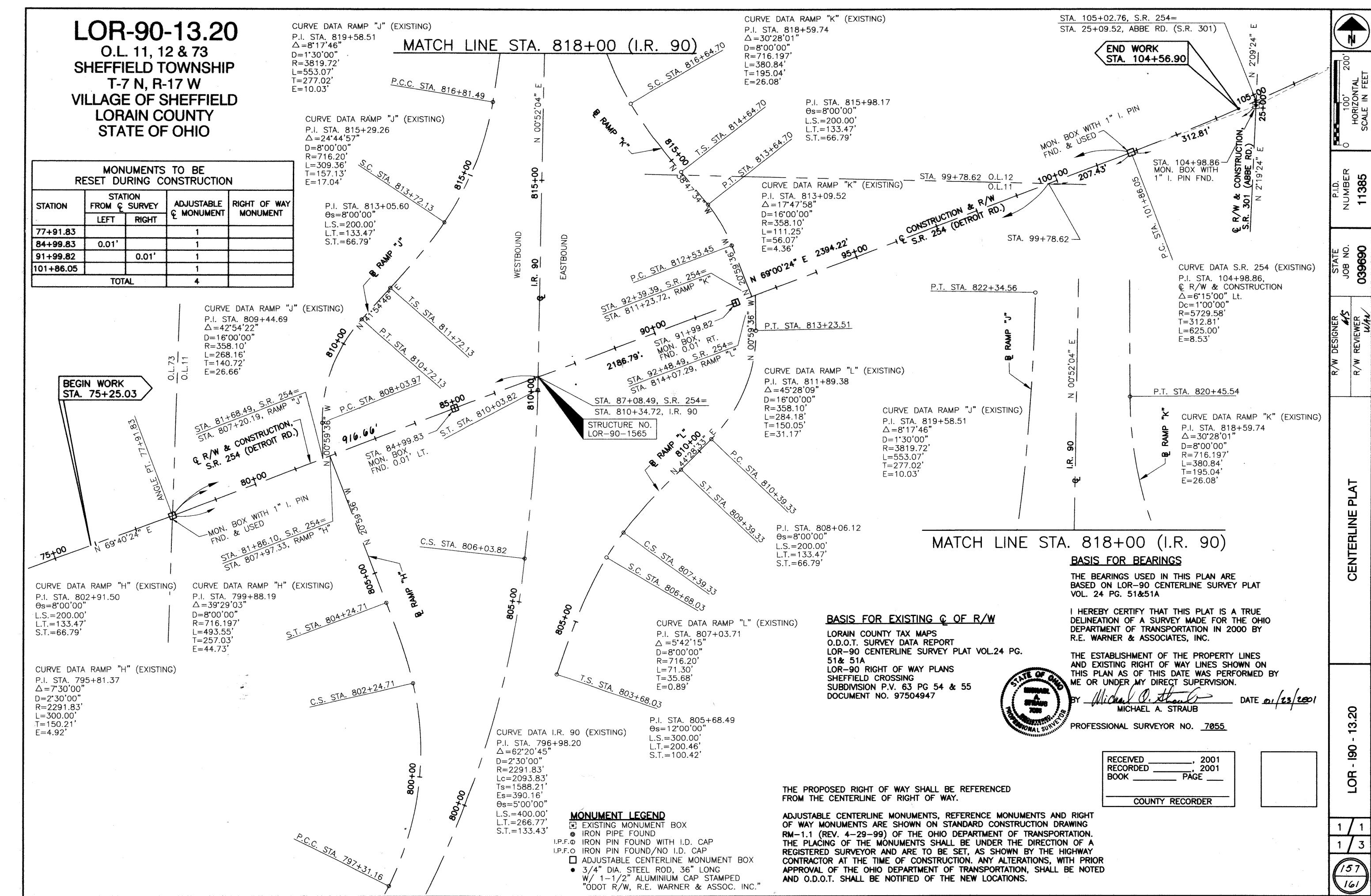
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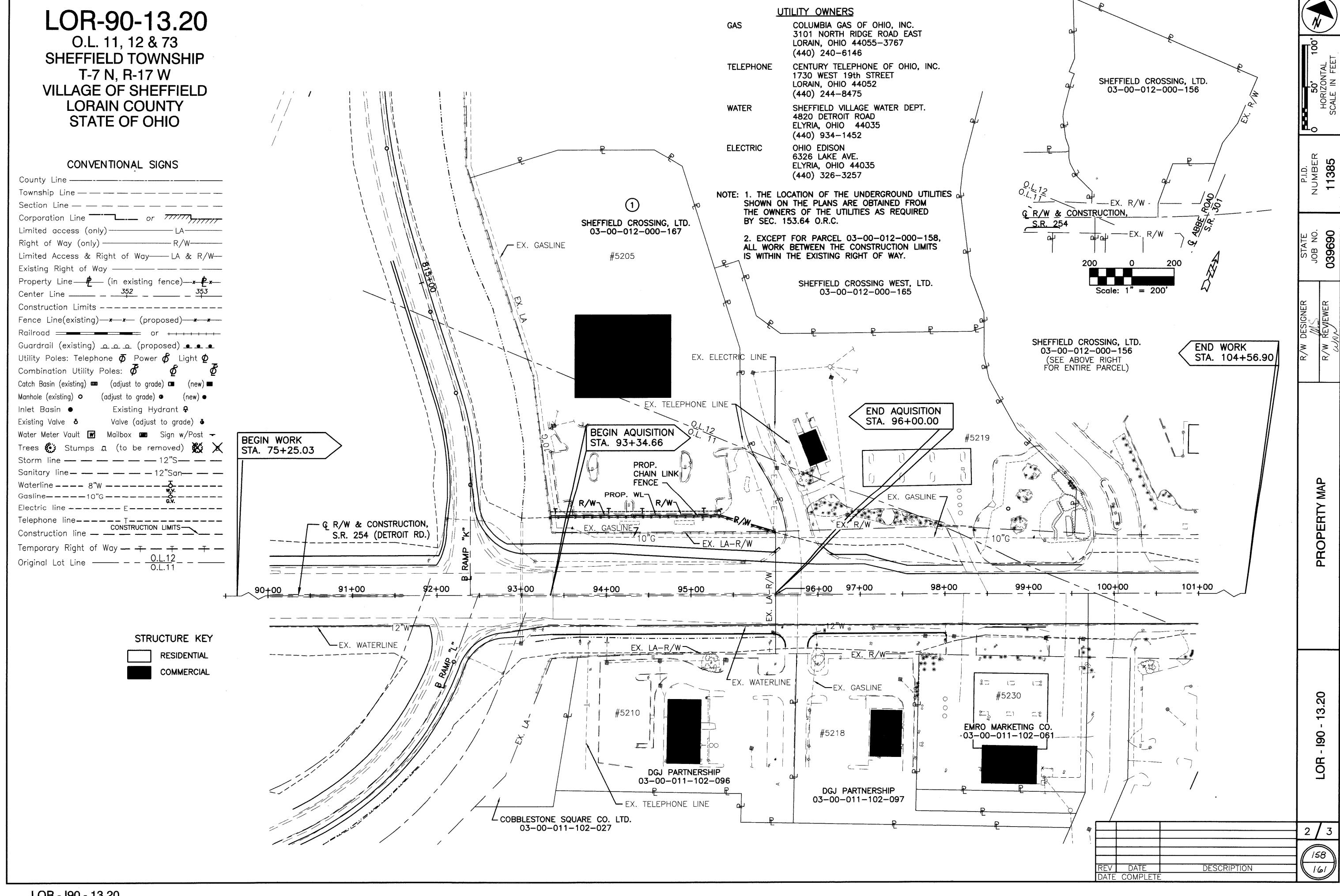
LOR

REINFORCING SCHEDULE
BRIDGE No. LOR-90-1565
254 (DETROIT ROAD) OVER INTERSTATE ROUT

REW R.E. WAPNER THREE KING JAMES PARK SUITE & ASSOCIATES, INC. WESTLAKE, OHIO 44145
CONSULTING ENGINEERS



LOR - 190 - 13 20



TOTAL NUMBER OF: NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS OWNERSHIP WITH STRUCTURES INVOLVED OWNERSHIPS WITH "P" ITEMS **OWNERSHIP** LOR-90-13.20 NOTE: ALL TEMPORARY PARCELS TO BE OF 18 TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT PARCEL'S MONTHS DURATION. BY THE CONTRACTOR UNLESS NOTED OTHERWISE. 0 TOTAL TAKE'S O.L. 11, 12 & 73 AS REQUIRED NET RESIDUE PARCEL STRUC-REMARKS AND OWNERS RECORD AUDITOR'S RECORD TOTAL GROSS P.R.O. IN **OWNER** SHEFFIELD TOWNSHIP BOOK PAGE TAKE Ac. TAKE Ac. TAKE Ac. TURE LEFT RIGHT **FUND** PERSONALTY DOCUMENT NO. **PARCEL** AREA Ac. P.R.O. NO. NO. T-7 N, R-17 W (2) LANDSCAPE AREAS SHEFFIELD CROSSING, LTD 0.1010 2.5070 03-00-012-000-167 2.6080 1WL 3 97504947 0.1010 VILLAGE OF SHEFFIELD _ LIGHT POLE **LORAIN COUNTY** GRADING 0.0230 1T 3 0.0230 STATE OF OHIO STA. 96+09.24, 162.67' Lt. CAPPED IRON PIN FOUND Je W 039690 COMMERCIAL #5219 SHEFFIELD CROSSING, LTD. 03-00-012-000-167 **DOCUMENT NO. 97504947** P.C. STA. = 812+53.45 COMMERCIAL -DO NOT DISTURB CURB STA. 95+35.00 94.17' Lt. END WORK CONSTRUCTION LIMITS -STA. 104+56.90 PROP. CHAIN-LINK FENCE 5.00' STA. 95+35.00 STA. 93+34.03 94.03' Lt. SAVE N28'09'21"W BEGIN WORK STA. 75+25.03 OF VAY PLAN AND TIONAL RIGHT (STA. 93+36.45, 29.98' Lt 3/4" I. PIN FD. EX. EDGE OF SHLDR. EX. EDGE OF PVMT. RIGHT OF W SUMMARY OF ADDIT STA. 96+30.01 END AQUISITION BEGIN AQUISITION STA. 92+39.39, S.R. 254= STA. 811+23.72, RAMP "K" STA. 96+00.00 STA. 93+34.66 97+00 390.62 S.R. 254 (DETROIT ROAD) 94+00 N 69°00'24" E 92+00 R/W & CONSTRUCTION 377.46 STA. 96+25.95 937.56 P.C. STA. 101+86.05 STA. 92+48.49, S.R. 254= STA. 814+07.29, RAMP "L" 1" DIA. IRON PIN FOUND IN MON. BOX STA. 91+99.82 MON, BOX FOUND 0.01 Rt. EX. EDGE OF PVMT. EX. EDGE OF SHLDR. PROPOSED CURB PROPOSED 12" STORM-EX. EDGE OF SHLDR. DITCH STA. 94+46.77 70.0' Rt. CONSTRUCTION LIMITS-STA. 93+66.18 73.59' Rt. 9" EASTERN N69°00'24"E 70.00' COTTONWOOD SAVE __ _ _ EX. LA-R/W-S66°27'29"E 80.67' STA, 96+00 70.00' Rt. 回 PULL BOX ´PULL _BOX STA. 96+95 70.00' Rt. N69°00'24"E .1. STA. = 813+23.51 /<u>N66°21'11"E</u> 30.51' #5218 #5210 DGJ PARTNERSHIP 03-00-011-102-097 DGJ PARTNERSHIP 03-00-011-102-096 COMMERCIAL MONUMENT LEGEND COMMERCIAL EXISTING MONUMENT BÓX \$) 3 / 3 I.P.F.O IRON PIN FOUND WITH I.D. CAP STRUCTURE KEY I.P.F.O IRON PIN FOUND/NO I.D. CAP COBBLESTONE SQUARE CO. LTD. EXISTING RIGHT OF WAY WIDTH AND LOCATION ☐ ADJUSTABLE CENTERLINE MONUMENT BOX RESIDENTIAL 03-00-011-102-027 COMMERCIAL WERE DETERMINED USING RIGHT OF WAY PLAN 161 • 3/4" DIA. STEEL ROD, 36" LONG (LOR-190-13.01). $\dot{W}/$ 1-1/2" ALUMINIUM CAP STAMPED **COMMERCIAL** (161) REV DATE DATE COMPLETE DESCRIPTION "ÓDOT R/W, R.E. WARNER & ASSOC. INC."