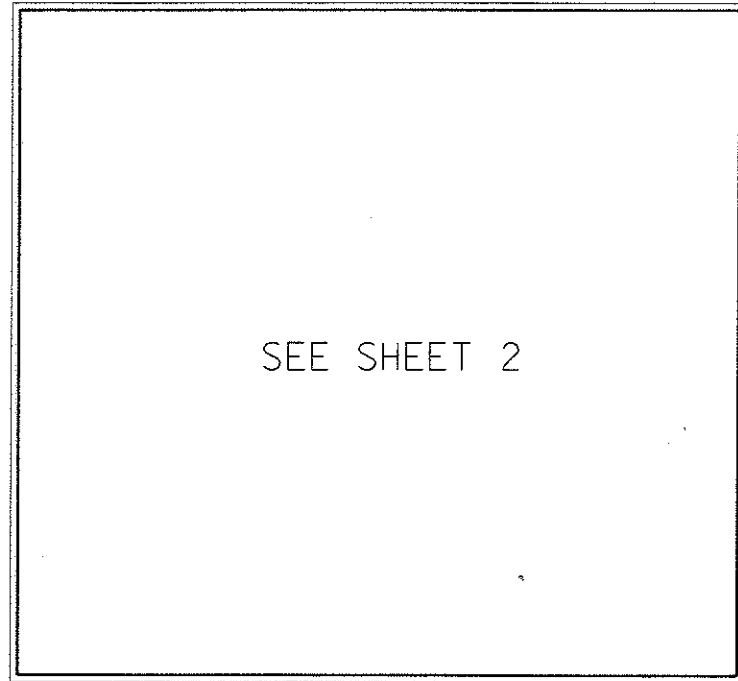


MUS - USR 22-0.00/Various
 040303 PID - 19947
 Dist 5 5/5/2004

OHIO DEPARTMENT OF TRANSPORTATION
 MUS-22-0.00/9.77, MUS-22D-0.99, MUS-146-15.31
 MUS-719-0.00/0.04, MUS-555-11.28, MUS-60-16.76
 MUSKINGUM COUNTY
 NEWTON, SPRINGFIELD, WASHINGTON
 PERRY AND UNION TOWNSHIPS

PROJECT DESCRIPTION:
 2 LANE/4 LANE ASPHALT CONCRETE
 RESURFACING, BIKE LANE CONSTRUCTION
 AND RELATED WORK.
 Project Earth Disturbed Area =
 N/A (Maintenance Project)
 Estimated Contractor Earth Disturbed Area =
 N/A (Maintenance Project)
 Notice of Intent Earth Disturbed Area =
 N/A (Maintenance Project)

LOCATION MAP

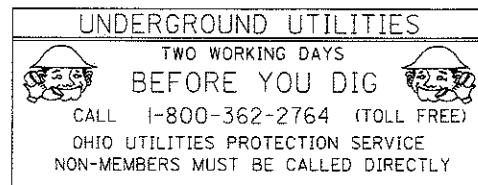


* DEDUCT FOR LOCATION 2
 # SUSPEND SLM 11.58 - SLM 12.23

LOCATION	COUNTY	ROUTE	SECTIONS	PROJECT TERMINI		NET LENGTH MILES	VILLAGE	CITY
				BEGIN	END			
1	MUS	US 22	(0.00-26.92)	0.00	27.73	*24.26	S.ZANESVILLE	
2	MUS	US 22	(9.77-12.91)	9.77	13.24	#2.82		ZANESVILLE
3	MUS	US 22D	(0.00)	0.00	0.21	0.21		ZANESVILLE
4	MUS	SR 146	(15.31-16.03)	15.31	16.13	0.82		ZANESVILLE
5	MUS	SR 719	(0.00-0.21)	0.00	0.57	0.54		
6	MUS	SR 719	(0.04-0.57)	0.04	0.61	0.07		ZANESVILLE
7	MUS	SR 555	(11.28)	11.28	11.36	0.08		ZANESVILLE
8	MUS	SR 60	(16.76-17.50)	16.76	17.93	1.13		ZANESVILLE

— PORTION TO BE IMPROVED

DESIGN EXCEPTIONS: NONE



INDEX OF SHEETS:

TITLE SHEET..... 1
 LOCATION MAP..... 2
 TYPICAL SECTIONS..... 3-8
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 SHOULDER TREATMENT..... 20
 EXTRA AREAS DATA..... 21-23
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 AUXILIARY MARKING SUB-SUMMARY..... 32-35
 PLAN SHEETS..... 36-55
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 CURB RAMP INSERT SHEETS..... 62A-62C
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2002 SPECIFICATIONS

THE STANDARD 2002 SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND THE PROPOSAL SHALL GOVERN THESE IMPROVEMENTS.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THESE IMPROVEMENTS WILL NOT REQUIRE THE CLOSING OF THE HIGHWAY AND PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS INDICATED IN THE PROPOSAL.

APPROVED *Christopher T. Rife*
 DATE 2/9/04 DISTRICT DEPUTY DIRECTOR

APPROVED *Gordon Proctor*
 DATE 3-4-04 DIRECTOR, DEPARTMENT OF TRANSPORTATION

DESIGN DESIGNATION	LOCATIONS					
	1	2	3	4	5,6 & 7	8
Current ADT (2004)	6000	12000	5300	5800	12200	22000
Design Year ADT (2016)	7300	14300	6800	6900	14700	26500
Design Hourly Volume (2016)	730	1430	680	690	1470	2650
Directional Distribution	50%	50%	50%	50%	50%	50%
Trucks (24 Hour B&C)	12%	6%	17%	5%	17%	5%
Design Speed	55mph	35mph	55mph	55mph	55mph	55mph
Legal Speed	55mph	35mph	55mph	55mph	55mph	55mph

STANDARD DRAWINGS		STANDARD DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	
BP-3.1	7-28-00	MT-97.10	4-19-02	832	2-12-03
BP-4.1	7-28-00	MT-97.11	4-19-02	833	2-12-03
		MT-99.20M	1-30-95		
GR-1.1	4-18-03	TC-65.10	10-19-01	908	4-19-02
GR-2.1	4-18-03	TC-65.11	10-19-01		
GR-3.6	1-16-04	TC-65.12	10-19-01		
DS-1-92	7-18-03	TC-71.10	4-19-02		
TST-1-99	10-17-03	TC-73.10	01-19-01		



PLAN PREPARED BY:
 District 5
 Production

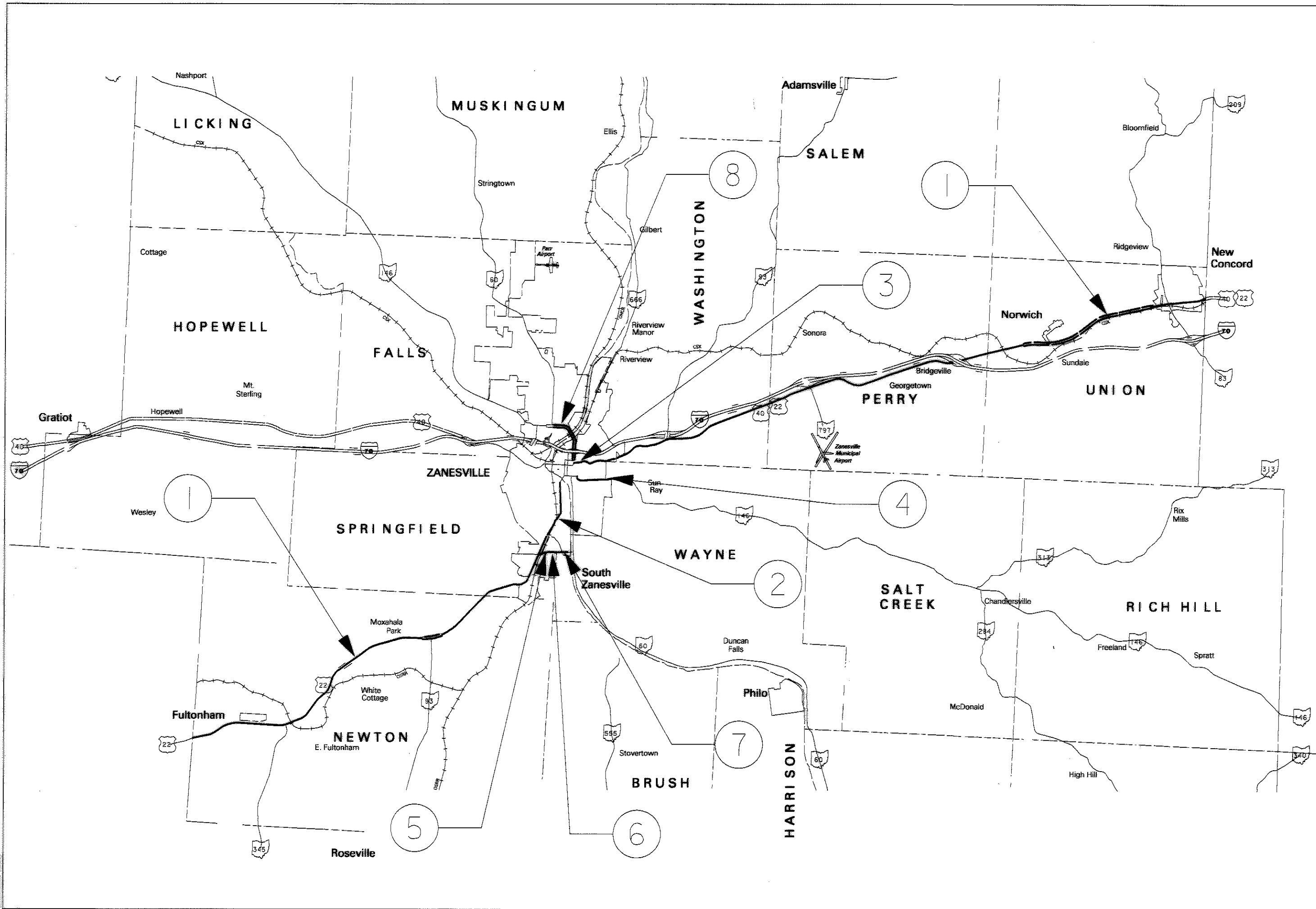
FEDERAL PROJECT NO. E036(167)
 PID NO. 19947
 CONSTRUCTION PROJECT NO.
 TITLE SHEET
 MUS-719-0.00
 MUS-22-0.00
 MUS-22-9.77
 MUS-22D-0.99
 MUS-555-11.28
 MUS-60-16.76
 MUS-146-15.31
 73

2-9-04 s.t.m.10022020w



CALCULATED
CHECKED

LOCATION MAP



MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76
MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31



HORIZONTAL
SCALE IN FEET

CALCULATED
CHECKED

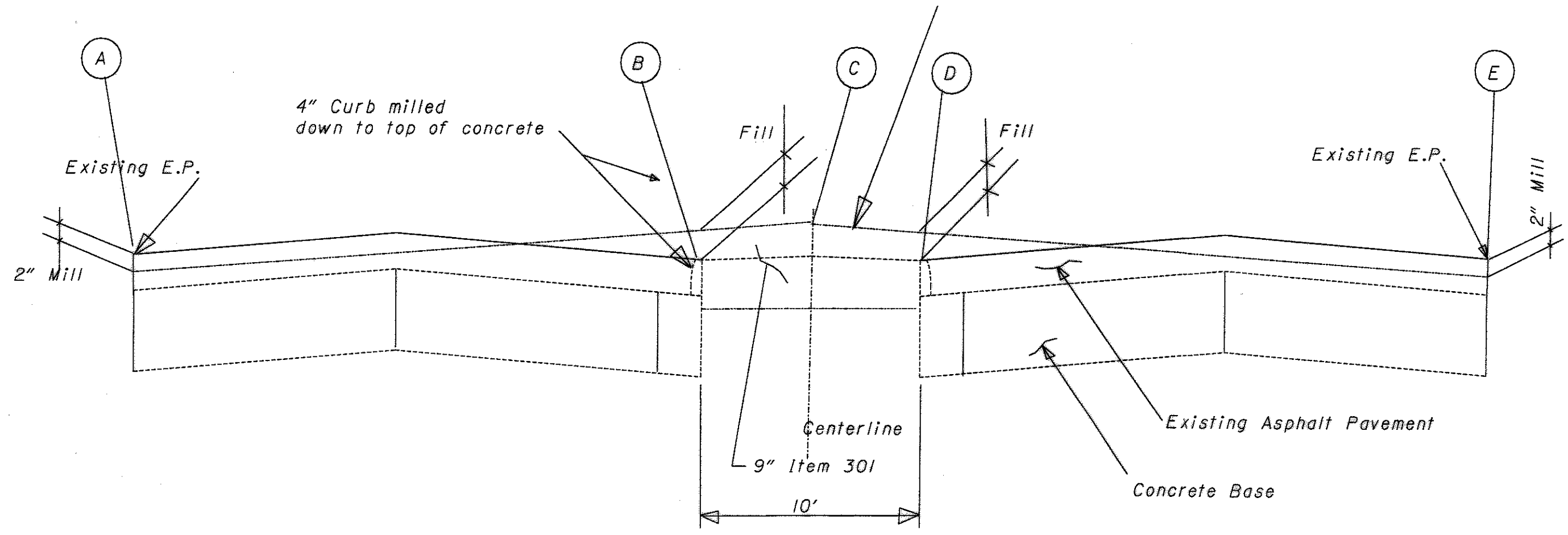
TYPICAL SECTION

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

MUS-22-0.00
MUS-22-9.77
MUS-220-0.00
MUS-146-15.31

3
73

Proposed top of asphalt base. 2" asphalt surface course to be placed on top of this line.



Tangent Section

Note : Proposed and existing elevations at locations A thru E will be given to the Awarded Contractor by the Engineer prior to construction. These elevations will be provided in order for the Contractor to utilize in layout. This will result in better use of milling depths and cross slopes to minimize overruns in asphalt quantities.

T22XS6.dgn



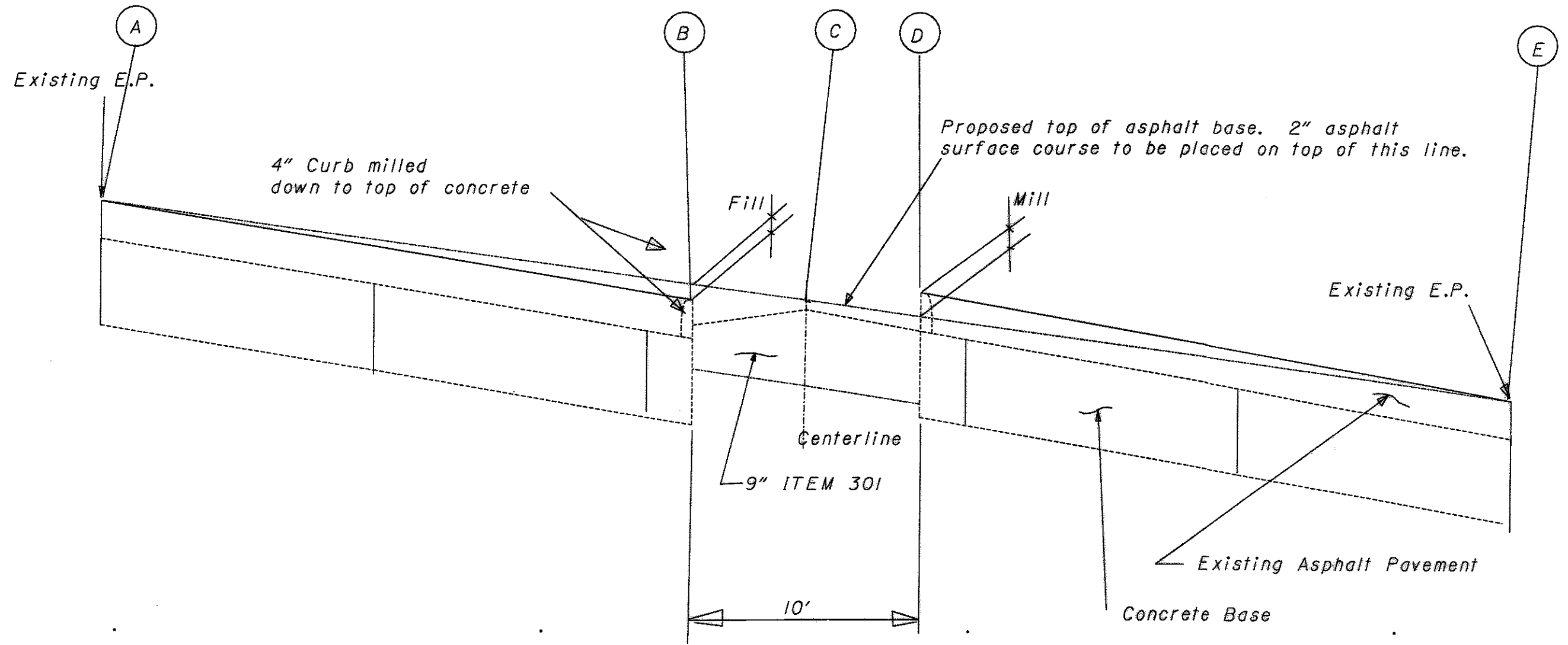
HORIZONTAL
SCALE IN FEET

CALCULATED
CHECKED

TYPICAL SECTION

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31



542+00

Note : Proposed and existing elevations at locations A thru E will be given to the Awarded Contractor by the Engineer prior to construction. These elevations will be provided in order for the Contractor to utilize in layout. This will result in better use of milling depths and cross slopes to minimize overruns in asphalt quantities.

T22XS4.DGN



HORIZONTAL SCALE IN FEET

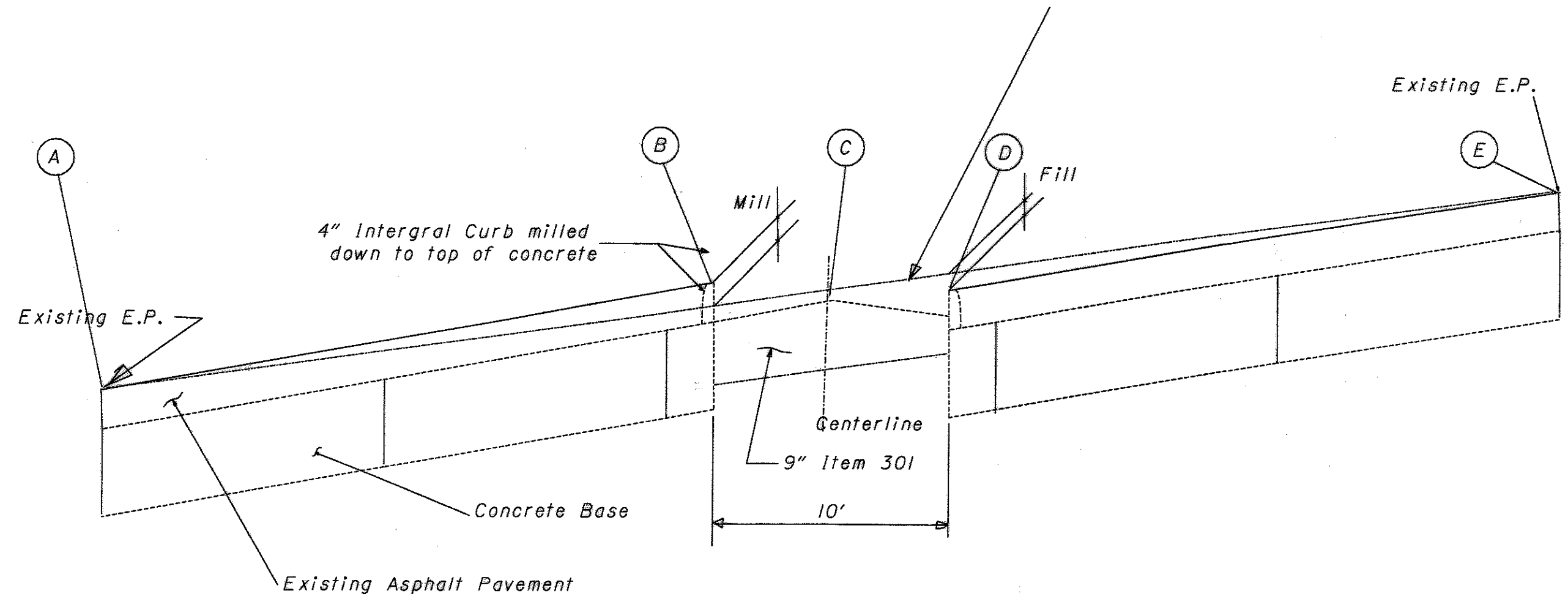
CALCULATED
CHECKED

TYPICAL SECTION

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

MUS-22-0.00
MUS-22-9.77
MUS-220-0.00
MUS-146-15.31

Proposed top of asphalt base. 2" asphalt surface course to be placed on top of this line.

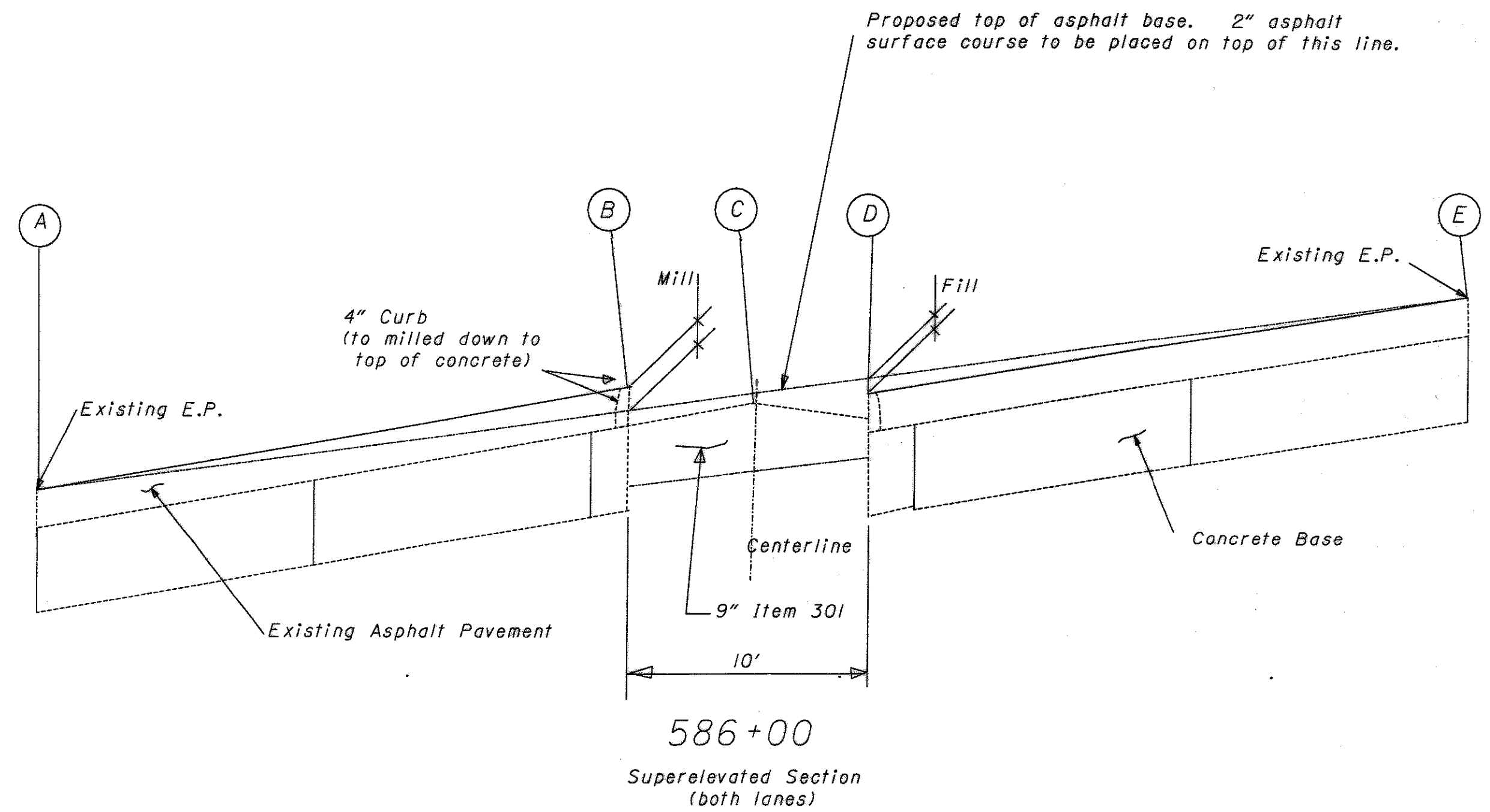


566+00

Note : Proposed and existing elevations at locations A thru E will be given to the Awarded Contractor by the Engineer prior to construction. These elevations will be provided in order for the Contractor to utilize in layout. This will result in better use of milling depths and cross slopes to minimize overruns in asphalt quantities.

T22XS2.dgn

T22XSI.dgn



586+00
 Superelevated Section
 (both lanes)

Note : Proposed and existing elevations at locations A thru E will be given to the Awarded Contractor by the Engineer prior to construction. These elevations will be provided in order for the Contractor to utilize in layout. This will result in better use of milling depths and cross slopes to minimize overruns in asphalt quantities.

TYPICAL SECTION

HORIZONTAL SCALE IN FEET

CALCULATED _____ CHECKED _____

MUS-22-0-0.00	MUS-719-0-0.00
MUS-22-9-77	MUS-719-0-0.04
MUS-22D-0-0.00	MUS-555-11.28
MUS-146-15.31	MUS-60-16.76

6
73



HORIZONTAL SCALE IN FEET

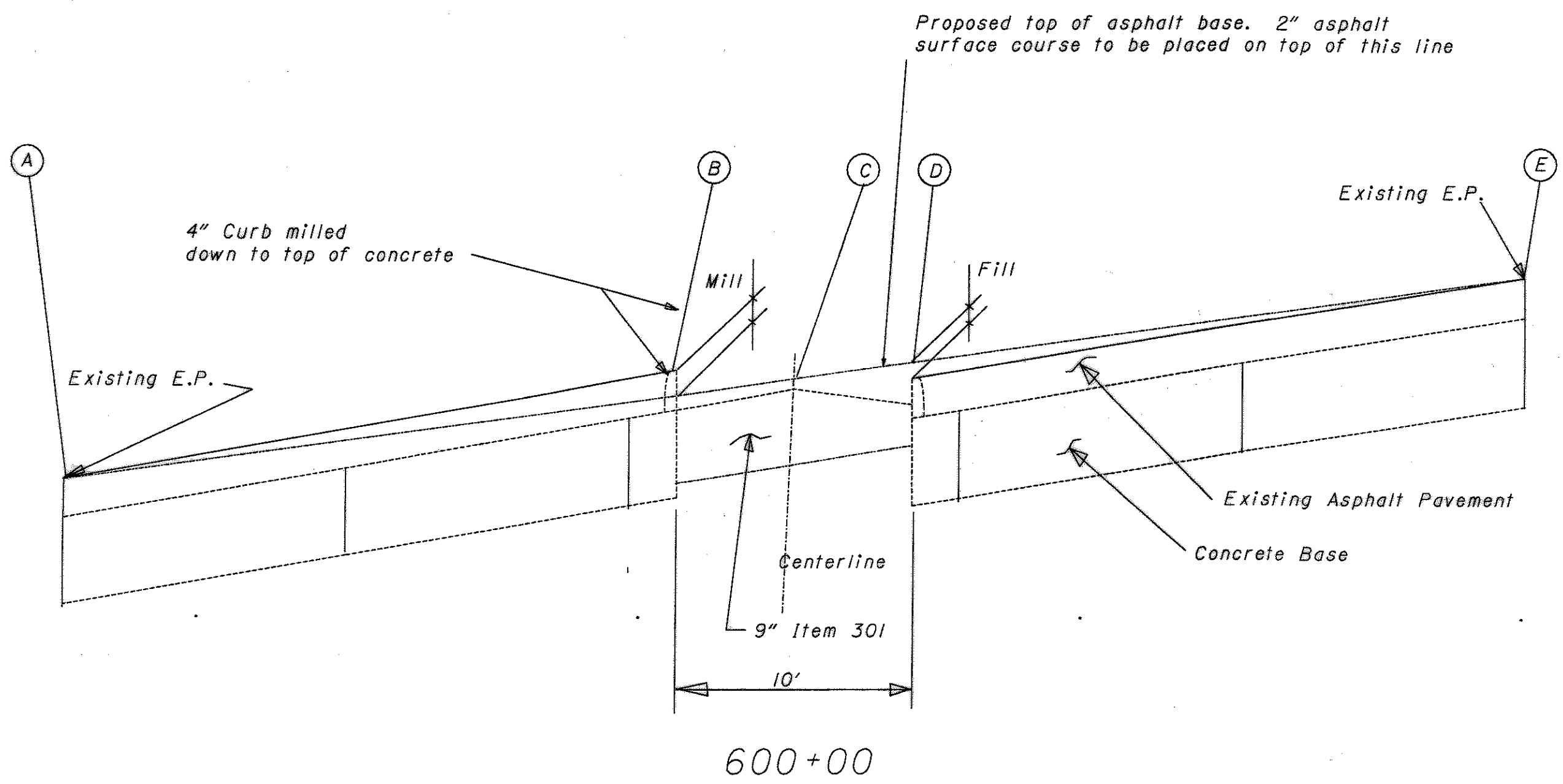
CALCULATED
CHECKED

TYPICAL SECTION

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.16

MUS-22-0.00
MUS-22-9.77
MUS-220-0.00
MUS-146-15.31

7
73



Note : Proposed and existing elevations at locations A thru E will be given to the Awarded Contractor by the Engineer prior to construction. These elevations will be provided in order for the Contractor to utilize in layout. This will result in better use of milling depths and cross slopes to minimize overruns in asphalt quantities.

T22XS3.dgn



HORIZONTAL SCALE IN FEET

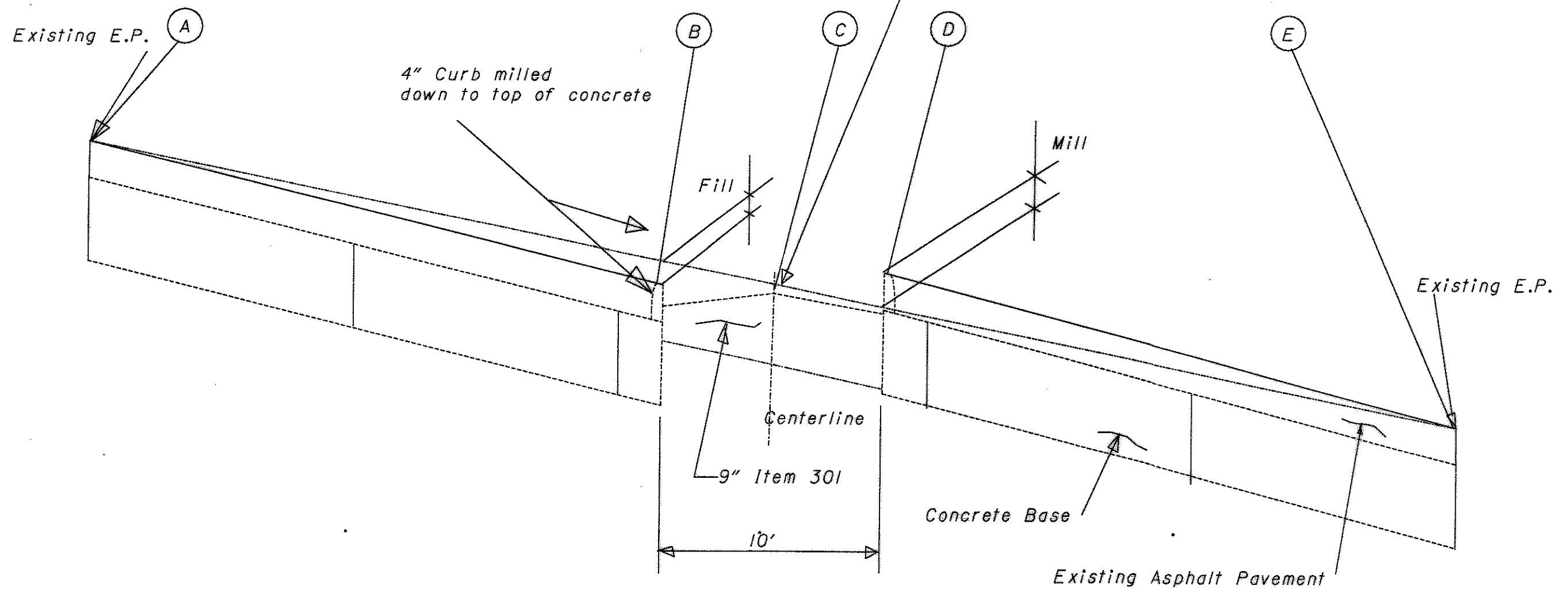
CALCULATED
CHECKED

TYPICAL SECTION

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31

Proposed top of asphalt base. 2" asphalt surface course to be placed on top of this line.



635+00

Note : Proposed and existing elevations at locations A thru E will be given to the Awarded Contractor by the Engineer prior to construction. These elevations will be provided in order for the Contractor to utilize in layout. This will result in better use of milling depths and cross slopes to minimize overruns in asphalt quantities.

T22XS5.dgn

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT SHOULD NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA. BELOW IS A LIST OF UTILITIES LOCATED WITHIN THE WORK AREA AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT OWNERS AND VERIFY LOCATIONS:

Sprint United Telephone
15 East Gambier Street
Mount Vernon, Ohio 43050
Attn: Paul Gieseck
740-397-3712

Columbia Gas Of Ohio
2429 Linden Ave,
P.O. Box 310
Zanesville, Ohio 43702
Attn: Jim Dietrick
740-452-5467

Time Warner Cable T.V.
737 Howard street
Zanesville, Ohio 43701
Attn: Bill Randels
740-450-8095

American Electric Power
1900 Licking Road
Zanesville, Ohio 43701
Attn: Tracy Wintermute
740-348-4030

American Electric Power Co. Transmission
825 Tech Center Drive
Gahanna, Ohio 43230-8250
Attn: Tod Wick
740-552-1899

SBC Ohio
3935 North Point Rd.
Zanesville, Ohio 43701
Attn: Sandi Randolph
740-454-3455

Maysville Water District
6255 Maysville Pike
P.O. Box 1700
Zanesville, Ohio 43702-1700
Attn: Rod Eppley
740-849-2428

National Gas and Oil
1500 Granville Road
P.O. Box 4970
Newark, Ohio 43058-4970
Attn: Greg Wilson
740-348-1292

City of Zanesville
401 Market Street
Zanesville, Ohio 43701
Attn: Fred Buck
740-455-0700

NOTIFICATION OF ROAD CLOSURE OR RESTRICTION

IN ORDER FOR ODOT TO PROPERLY PERMIT OVERSIZE LOADS, PREPARE PROPER SIGNING WHEN REQUIRED AND FURTHER TO NOTIFY THE GENERAL MOTORING PUBLIC, THE CONTRACTOR SHALL NOTIFY (IN WRITING) THE DISTRICT 5 HIGHWAY MANAGEMENT ADMINISTRATOR WITH COPIES FOR THE DISTRICT 5 ROADWAY SERVICES MANAGER AND PROJECT ENGINEER NOT LESS THAN 21 DAYS BEFORE SUCH CLOSURE OR LANE RESTRICTIONS.

SEND NOTIFICATION TO:

DISTRICT 5 HIGHWAY MANAGEMENT ADMINISTRATOR
P.O. BOX 306
JACKSONSTOWN, OH 43030
PHONE: (740) 323-4400 EXT. 5241

ITEM 617, COMPACTED AGGREGATE, TYPE A, AS PER PLAN

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE. ALL QUALITY REQUIREMENTS EXCEPT SHALE BE WAIVED. OTHER GRADATION REQUIREMENTS SHALL BE AS SPECIFIED EXCEPT THE PLASTICITY INDEX SHALL BE WAIVED. IF SO DIRECTED, THE CONTRACTOR MAY USE RECYCLED ASPHALT CONCRETE PAVEMENT (RACP MEETING REQUIREMENTS OF 617.02) IN LIEU OF CRUSHED LIMESTONE.

PROFILE AND ALIGNMENT

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.075 GALLONS PER SQUARE YARD FOR ESTIMATING PURPOSES ONLY.

TACK COAT FOR INTERMEDIATE COURSE

THE RATE OF APPLICATION OF THE 407 TACK COAT FOR INTERMEDIATE COURSE SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.05 GALLONS PER SQUARE YARD FOR ESTIMATING PURPOSES ONLY.

PAVEMENT MARKING

STOP LINES, CROSSWALK LINES, CHANNELIZING LINES, ETC., SHOWN IN THE PLANS ARE TAKEN FROM EXISTING MARKINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT EXISTING MARKING LOCATIONS (i.e. BY USE OF VIDEO, PICTURES) AND PLACE NEW PAVEMENT MARKINGS AS NEAR AS POSSIBLE TO THE EXISTING LOCATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

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.

GENERAL NOTES

MUS-22-0-0.00
MUS-22-9-77
MUS-22D-0-0.00
MUS-146-15.31
MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

9
73

ITEM 614 WORK ZONE MARKING SIGNS

A QUANTITY OF WORK ZONE MARKING SIGNS HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

WORK ZONE MARKING SIGNS	LOCATIONS			
	1	2	4	8
OW-167 (NO EDGE LINES)	22			
R-33 (DO NOT PASS)	30			
R-34 (PASS WITH CARE)	25			
OW-128 (BEGIN ROAD CONSTRUCTION AHEAD)	84	14	12	20
OC-8 (END ROAD CONSTRUCTION)	84	14	12	20
TOTAL	245	28	24	40

ITEM 202: RAISED PAVEMENT MARKERS, REMOVED FOR STORAGE

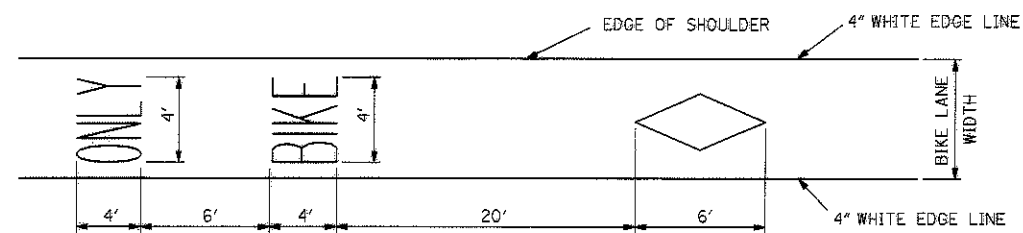
THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE PLANS TO REMOVE RAISED PAVEMENT MARKERS FOR STORAGE. THE COSHOCTON COUNTY MANAGER SHALL BE CONTACTED FOR INSTRUCTIONS ON WHERE TO DELIVER THE RAISED PAVEMENT MARKERS.

ITEM 202 RAISED PAVEMENT MARKERS, REMOVED FOR STORAGE
LOCATION 1 - 3713 EACH

CONVERSION OF METRIC DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) OF THE 2002 CONSTRUCTION AND MATERIALS SPECIFICATIONS. TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.02 IEEE/ASTM SI 10 SHALL BE UTILIZED FOR ANY ADDITIONAL CONVERSION FACTORS REQUIRED. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

BIKE LANE SYMBOL MARKING



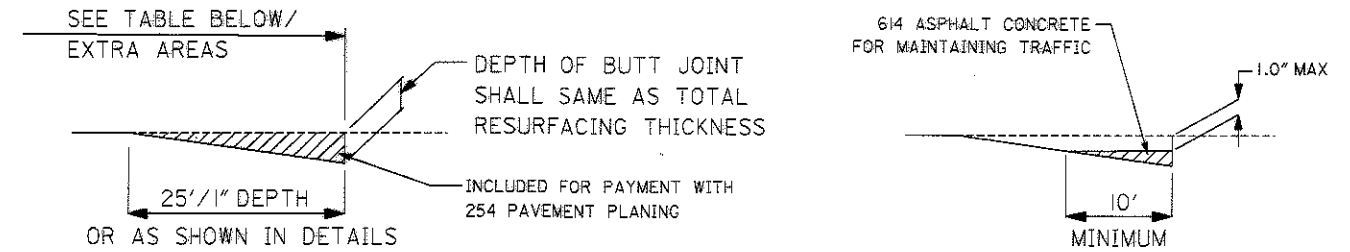
THE ABOVE MARKINGS SHALL BE PLACED AS DIRECTED BY THE ENGINEER AT THE FOLLOWING LOCATIONS:

LOCATION 1
MUS-22-22.31 TO MUS-22-26.52

ITEM 642 BIKE LANE SYMBOL MARKING, TYPE 2 - 8 EACH

BUTT JOINT

A BUTT JOINT WILL BE REQUIRED AT LOCATIONS SPECIFIED BELOW AND AT EXTRA AREAS WITH WEARING COURSE REMOVED. AFTER THE JOINT IS CONSTRUCTED, THE DROP OFF CREATED SHALL BE MINIMIZED BY IMMEDIATELY PLACING THE PROPOSED 448 INTERMEDIATE COURSE TO WITHIN 1.0" OF EXISTING ROADWAY SURFACE OR BY PLACING WEDGE AS SHOWN. BUTT JOINTS SHALL BE AS PER SCD BP-3.1, 7-28-00.



LOCATION	ROUTE	DESCRIPTION	SLM	202 WEARING COURSE REMOVED SQ. YD.	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC CU. YD.
1	US 22	R/R BRIDGE	2.30		1.4
		MUS-22-0610	6.10		1.4
		MUS-22-1881	18.81		1.4
		MUS-22-2277	22.77		1.4
		@ EAST SIDE SR 83	26.92	289	1.6
		END WORK		289	1.6
1		TOTALS		578	8.8
2	US 22	RAILROAD	9.91		1.6
		SUSPEND WORK	11.58		1.2
		RESUME WORK	12.23		1.2
2	US 22	TOTALS			4.0
3	22D	@ SR 60	0.21		1.2
4	146	BEGIN WORK	15.31		0.9
		END WORK	16.13		0.8
4	146	TOTALS			1.7
5	719	RAILROAD	0.03		2.2
7	555	END WORK	11.36		1.5
8	60	BEGIN WORK	16.76		1.5
		MUS-60-1728	17.28		3.0
		END WORK	17.93		1.5
8	60	TOTALS			6.0

FEATHERING

FEATHERING OF THE ASPHALT CONCRETE SHALL BE DONE IN ACCORDANCE WITH SCD DRAWING BP-3.1, 7-28-00

M022002.MGN 2-3-04

GENERAL NOTES

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

AN ESTIMATED QUANTITY FOR PAVEMENT REPAIR HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER. REPAIRS SHALL TAKE PLACE PRIOR TO THE PAVEMENT PLANING OPERATION. THERE MAY BE A NEED TO MAKE FURTHER REPAIRS IF MORE FAILURES ARE PRESENT AFTER PLANING AND PAVING OF THE INTERMEDIATE COURSE. THE INTENT OF THIS OPERATION IS TO REPAIR THOSE AREAS OF PAVEMENT WHICH HAVE COMPLETELY FAILED (PUMPING OF SUB-BASE MATERIAL) AND NOT TO CORRECT SURFACE IRREGULARITIES. DEPTH OF EXCAVATION SHALL BE APPROXIMATELY 7". AFTER EXCAVATION HAS BEEN COMPLETED, THE FACE OF THE REPAIR SHALL BE COATED WITH 407 TACK COAT. REPLACEMENT MATERIAL WILL BE 7" OF ITEM 301 ASPHALT CONCRETE BASE, PG64-22 (PLACED AND COMPACTED AS DIRECTED). ALL EXCAVATION, MATERIALS, LABOR, EQUIPMENT, TOOLS, TRAFFIC CONTROL AND INCIDENTALS NEEDED TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE PAID FOR UNDER ITEM 253 PAVEMENT REPAIR, AS PER PLAN.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE DESCRIBED PURPOSE.

ITEM 253 PAVEMENT REPAIR, AS PER PLAN

- LOCATION 1 - 1380 SQ.YD.
- LOCATION 2 - 1120 SQ.YD.
- LOCATION 4 - 200 SQ.YD.
- LOCATION 5 - 125 SQ.YD.

ITEM 407 TACK COAT, MISC.: FOR LONGITUDINAL JOINT

IN ORDER TO ASSURE A GOOD BOND AT THE LONGITUDINAL JOINT, A RUBBERIZED ASPHALT EMULSION (ITEM 407 TACK COAT AS PER 702.13) SHALL BE APPLIED TO THE FACE OF THE SURFACE COURSE OF ASPHALT PAVEMENT IMMEDIATELY BEFORE PLACING THE ADJACENT PAVEMENT. RUBBERIZED TACK SHALL HAVE 100% COVERAGE ON THE FACE OF THE TOP COURSE AND BE APPLIED AT THE RATE OF 0.25 GALLONS PER SQUARE YARD, AS DIRECTED BY THE ENGINEER. CARE SHALL BE TAKEN (AS PER SECTION 407.07) IN THE APPLICATION OF THE TACK SO AS TO AVOID PLACING EMULSION ON THE TOP SURFACE OF THE PAVEMENT. THE FOLLOWING QUANTITY OF ITEM 407 TACK COAT, MISC.: FOR LONGITUDINAL JOINT SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIAL TO PERFORM THE ABOVE WORK.

ITEM 407 TACK COAT, MISC.: FOR LONGITUDINAL JOINT

- LOCATION 1 - 191744 FT LOCATION 2 - 32313
- LOCATION 3 - 1109 FT LOCATION 4 - 4330 FT
- LOCATION 5 - 8553 FT LOCATION 6 - 1107 FT
- LOCATION 7 - 1266 FT LOCATION 8 - 24712 FT

ITEM 408 PRIME COAT, AS PER PLAN

THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER SECTION 702) AT A RATE OF 0.40 GALLON PER SQUARE YARD TO THE COMPLETED AGGREGATE SHOULDER (ITEM 617) AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF PAVEMENT OR EDGE LINE. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS. THE FOLLOWING QUANTITY OF PRIME COAT, AS PER PLAN SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT TO PERFORM THE ABOVE MENTIONED WORK.

ITEM 408 PRIME COAT, AS PER PLAN
LOCATION 1 - 21278 GAL

RESIDENCE AND COMMERCIAL DRIVES

An estimated quantity of Item 448 Asphalt Concrete has been included in the plan to be used as directed by the Engineer to pave approach areas to existing driveways. Paving shall typically extend 4' into the driveway(measured from the edge of the pavement). There are 5 types of drives: concrete, asphalt, gravel, gravel with asphalt apron, and field/oil well drives. Field drives and oil well drives shall not be paved. Gravel drives shall be paved back 4' into the driveway. Concrete and asphalt drives shall have butt joints or as short a asphalt taper as possible(up to 4') as directed by the Engineer so as to provide a smooth transition. Gravel drives with asphalt aprons shall also have butt joints or as short a asphalt taper a possible (up to 4') but only if the existing asphalt apron is in an acceptable condition to be paved over as directed by the Engineer. If the asphalt apron cannot be paved over(for example, broken into small pieces) as determined by the Engineer, it shall be removed before being paved back 4' into the driveway. Except as noted under Item 202 Removal Misc.: Residence and Commercial Drives, any prime or tack coat, materials, labor, equipment tools and incidentals necessary to complete the drives shall be included in the unit price bid for Item 448 Asphalt Concrete Surface Course, Type 1, PG 64-22

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
LOCATION 1 - 50 CU.YD.

MAIL BOX TURN OUTS

A QUANTITY OF ASPHALT CONCRETE HAS BEEN PROVIDED IN THE PLAN TO COVER MAIL BOX TURN OUTS. TURN OUTS SHALL BE PAVED AS SHOWN IN THE DETAIL IN DRAWING BP-4.1, 7-28-00.

ANY EXTRA GRADING OF THE SHOULDERS, PRIME OR TACK COAT, MATERIALS, LABOR, EQUIPMENT TOOLS AND INCIDENTALS NECESSARY TO COMPLETE MAIL BOX TURN OUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22 AND ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22
LOCATION 1 - 55 CU.YD.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
LOCATION 1 - 55 CU.YD.

m022003.MGN 2-3-04

CALCULATED
LIME
CHECKED
TJD

GENERAL NOTES

MUS-22-0-0.00
MUS-22-9-77
MUS-22D-0-0.00
MUS-146-15.31
MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

73

GRASS MEDIAN REMOVAL (MUS-22)

THE GRASS MEDIAN FROM SLM 23.31 TO SLM 26.52 SHALL BE REMOVED AND PAVED (SEE DETAIL) IN ORDER TO CONVERT THE 4-LANE DIVIDED HIGHWAY INTO A 4-LANE UNDIVIDED HIGHWAY WITH ADJACENT BIKE LANES EAST AND WEST BOUND. THE MEDIAN SHALL BE EXCAVATED TO A DEPTH OF ±9" AS DIRECTED BY THE ENGINEER. THE ADJACENT CURB, ON BOTH SIDES OF MEDIAN, SHALL BE REMOVED BY GRINDING OR OTHER METHOD APPROVED BY THE ENGINEER. AFTER EXCAVATION, THE SUBGRADE SHALL BE COMPACTED AND ±9" OF ITEM 301 ASPHALT CONCRETE BASE, PG 64-22 SHALL BE PLACED AND COMPACTED AS DIRECTED. VARIABLE DEPTH PAVEMENT PLANING SHALL BE PERFORMED ON THE ROADWAY TO ACHIEVE PROPER CROSS-SLOPES BEFORE PLACING 1.0" 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 64-22 AND 1.0" 448 ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22 (SEE DETAIL SHEETS 3-8). PAVEMENT ELEVATIONS SHALL BE GIVEN TO THE CONTRACTOR PRIOR TO STARTING CONSTRUCTION IN ORDER TO CONSTRUCT DESIRED PAVEMENT CROSS-SLOPES.

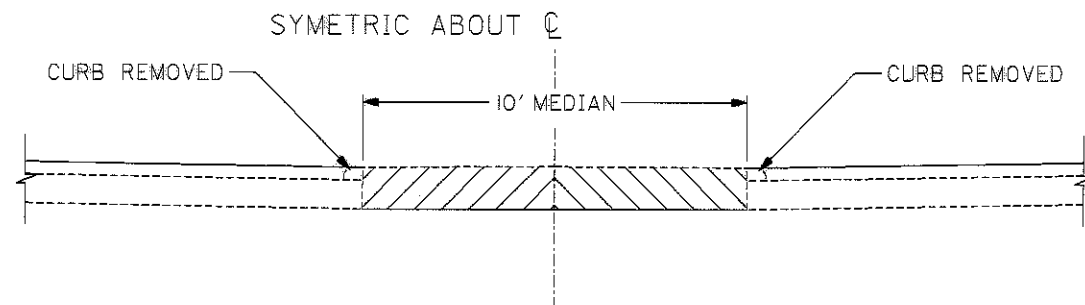
THE FOLLOWING QUANTITIES SHALL BE USED AS DIRECTED BY THE ENGINEER TO COMPLETE THE WORK DESCRIBED ABOVE.

ITEM 202 CURB REMOVED, AS PER PLAN
16949' X 2 = 33898 FT

ITEM 203 EXCAVATION
16949' X 10' X 0.75' / 27 = 4708 CU.YD.

ITEM 301 ASPHALT CONCRETE BASE, PG 64-22
16949' X 10' X 0.75' / 27 = 4708 CU.YD.

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE,
TYPE I, PG 64-22 (SPOT LEVELING)
500 CU.YD.



 9" EXCAVATION AND 301 REPLACEMENT

PAVED SHOULDER WIDENING FOR BIKE LANE

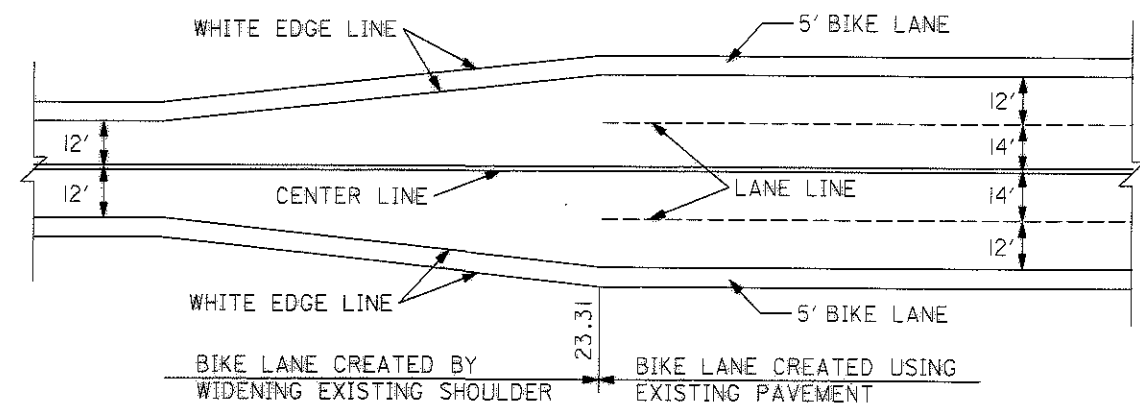
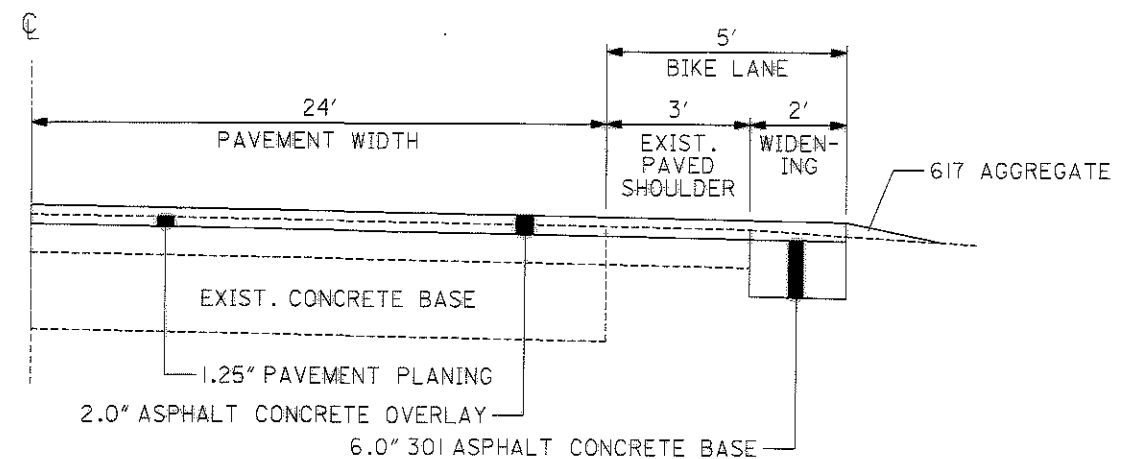
THE PAVED SHOULDER FROM SLM 22.31 TO SLM 23.31 EAST AND WEST BOUND SHALL BE WIDENED 2' (SEE DETAIL) TO CREATE A BIKE LANE ADJACENT TO THE ROADWAY. EXCAVATION SHALL BE ±7" IN DEPTH AND REPLACEMENT MATERIAL SHALL BE 6" OF ITEM 301 ASPHALT CONCRETE BASE, PG 64-22 PLACED AND COMPACTED SO AS TO BE FLUSH WITH ROADWAY AFTER 1.25" PAVEMENT PLANING. THE SHOULDER SHALL BE PAVED WITH 1.0" 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 64-22 AND 1.0" 448 ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22 ALONG WITH MAINLINE ROADWAY.

THE FOLLOWING QUANTITIES SHALL BE USED AS DIRECTED BY THE ENGINEER TO COMPLETE THE WORK DESCRIBED ABOVE.

LOCATION 1

ITEM 203 EXCAVATION
 $2[(5280' \times 2' \times 0.58') / 27] = 456 \text{ CU.YD.}$

ITEM 301 ASPHALT CONCRETE BASE, PG 64-22
 $2[(5280' \times 2' \times 0.5') / 27] = 391 \text{ CU.YD.}$



2-LANE TO 4-LANE TRANSITION

m022004.MGN 2-3-04

CALCULATED
LIME
CHECKED
TJD

GENERAL NOTES

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76
MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31

TURN LANE INSTALLATION

A RIGHT TURN LANE SHALL BE INSTALLED IN LOCATION 1 AT APPROXIMATELY SLM 23.92 WESTBOUND ON US 22 AT SUNDALE ROAD. THIS SHALL BE ACCOMPLISHED BY USE OF 5 FEET OF EXISTING ROADWAY AND WIDENING 5 FEET BEYOND EDGE OF PAVEMENT (SEE DETAILS THIS SHEET). EXCAVATION FOR WIDENING SHALL BE $\pm 10"$ AS DIRECTED. THE FOLLOWING ESTIMATED QUANTITIES ARE CARRIED TO THE SUMMARY.

ITEM 203 EXCAVATION
 $214' \times 5' \times 0.833' / 27 = 33 \text{ CU.YD.}$

ITEM 203 SUBGRADE COMPACTION
 119 SQ.YD.

ITEM 301 ASPHALT CONCRETE BASE, PG 64-22
 $214' \times 5' \times 0.667' / 27 = 26.4 \text{ CU.YD.}$

ITEM 407 TACK COAT
 $119 \text{ SQ.YD.} \times 0.075 \text{ GAL/S.Y.} = 9 \text{ GALLON}$

ITEM 407 TACK COAT FOR INTERMEDIATE COURSE
 $119 \text{ SQ.YD.} \times 0.05 \text{ GAL/S.Y.} = 6 \text{ GALLON}$

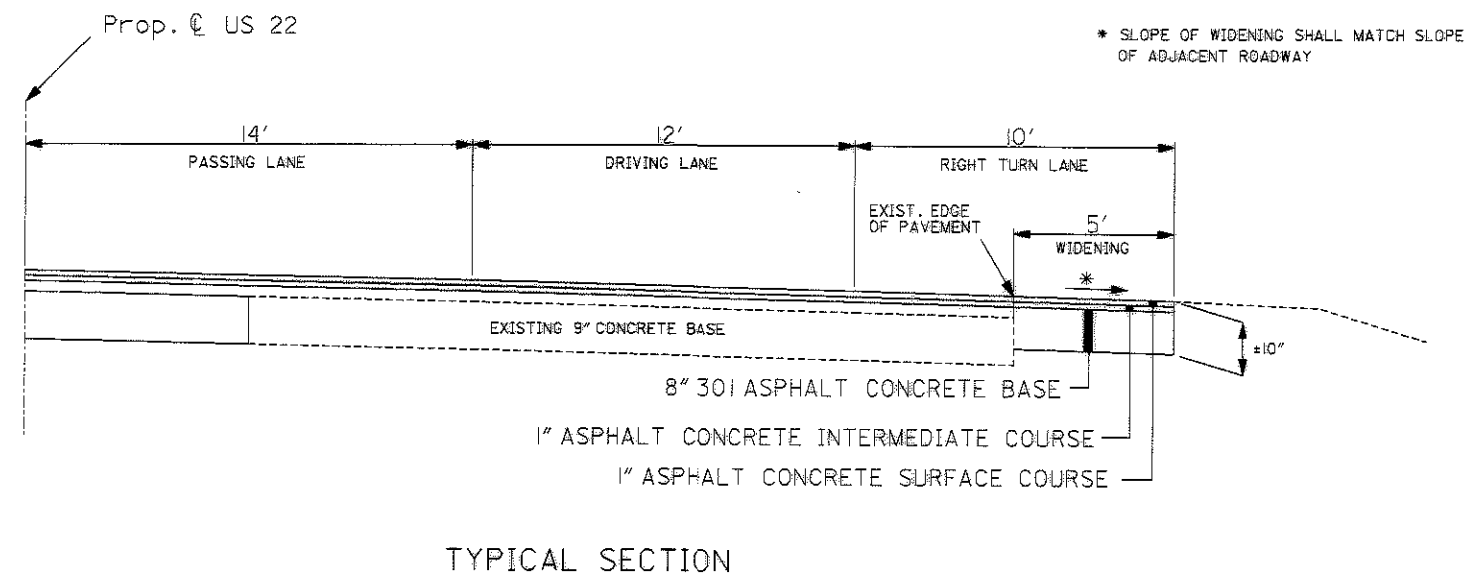
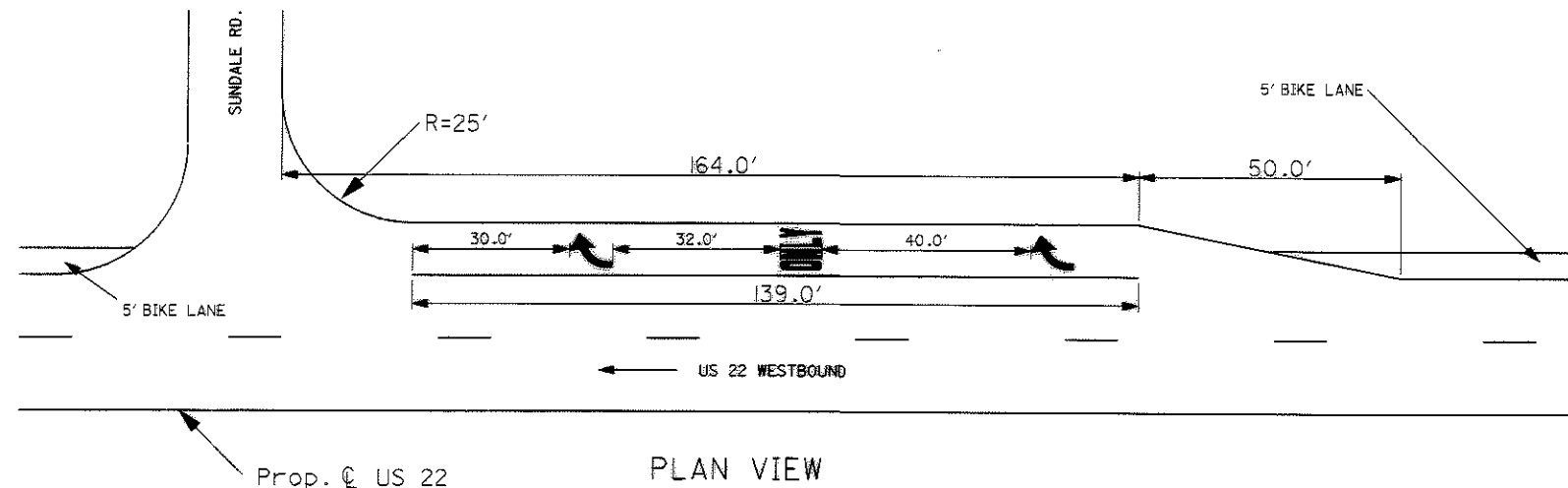
ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 64-22
 $214' \times 5' \times 0.083' / 27 = 3.3 \text{ CU.YD.}$

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22
 $214' \times 5' \times 0.083' / 27 = 3.3 \text{ CU.YD.}$

ITEM 644 CHANNELIZING LINE
 139 FT

ITEM 644 WORD ON PAVEMENT, 96"
 1 EACH

ITEM 644 LANE ARROW
 2 EACH



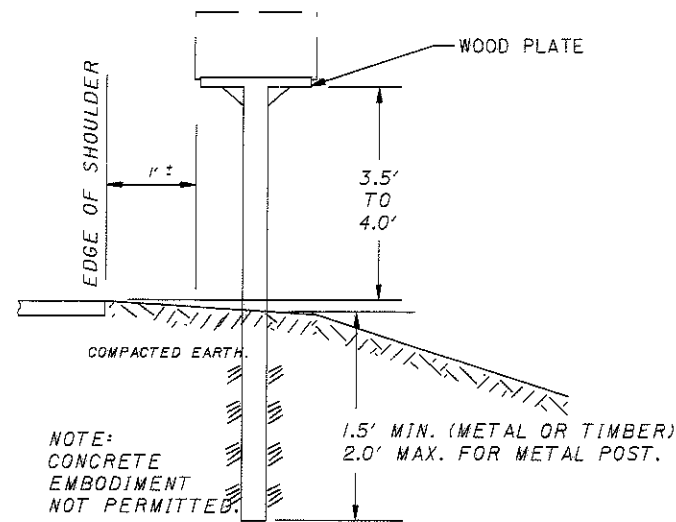
CALCULATED
 CHECKED

TURN LANE DETAIL

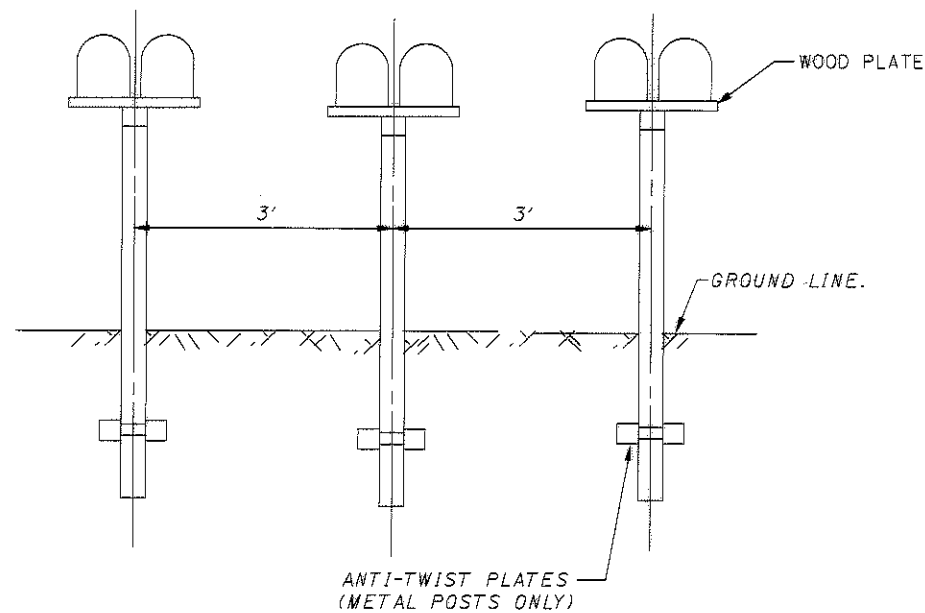
MUS-22-0.00
 MUS-22-9.77
 MUS-220-0.00
 MUS-146-15.31
 MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76

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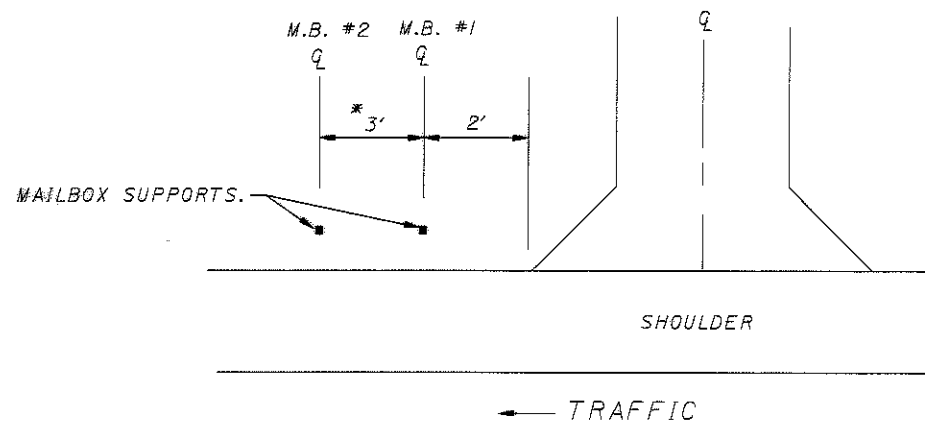
MAILBOX DETAILS



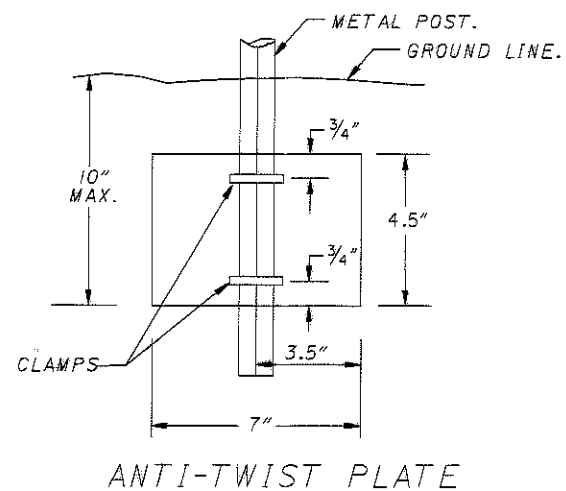
TYPICAL MAILBOX LOCATION AND MOUNTING HEIGHT



GROUP MAILBOX INSTALLATION



* ADD 3' FOR EACH ADDITIONAL MAILBOX.



ANTI-TWIST PLATE

ITEM SPECIAL - MAILBOX SUPPORT

DESCRIPTION

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATION SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER. THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING POSTS AND OTHER MATERIAL NOT CONSIDERED SALVAGEABLE AND DISPOSED OF IN ACCORDANCE WITH 202.02.

MATERIALS

WOOD POSTS SHALL BE NOMINAL 4" x 4" SQUARE OR 4" DIAMETER ROUND. ALL WOOD INCLUDING POST AND PLATES SHALL CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2" I.D., AND CONFORM TO AASHTO M 181.

HARDWARE (PLATES, SCREWS, BOLTS, ETC.) SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

SETTING POSTS

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03 AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

MOUNTING BOXES

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

BASIS OF PAYMENT

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.12. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR THE TYPE SPECIFIED, COMPLETE IN PLACE.

PAYMENT WILL BE MADE UNDER:

ITEM	UNIT	DESCRIPTION
SPECIAL	EACH	MAILBOX SUPPORT SYSTEM SINGLE
SPECIAL	EACH	MAILBOX SUPPORT SYSTEM DOUBLE

QUANTITY

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE PURPOSE

SPECIAL	MAILBOX SUPPORT SYSTEM SINGLE LOCATION 1-1 EACH
SPECIAL	MAILBOX SUPPORT SYSTEM DOUBLE LOCATION 1-1 EACH

M022007.MGN

CALCULATED
LME
CHECKED
TJD

MAILBOX DETAILS AND QUANTITIES

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

MUS-22-0.00
MUS-22-9.77
MUS-220-0.00
MUS-146-15.31

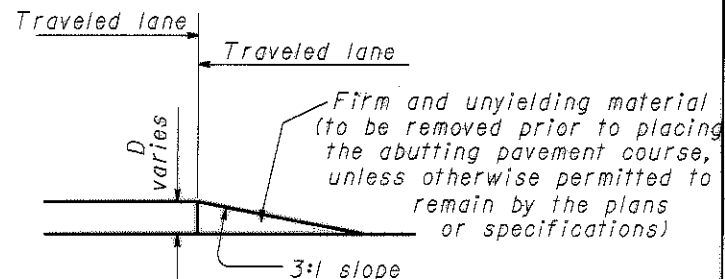
14
73

GENERAL NOTES

- It is intended that this drawing be used for treatment of drop-offs that develop during construction operations, and that are not otherwise provided for in the construction plans. Where the plans do not provide specific items for labor, equipment, or materials to implement the drop-off treatments specified hereon, they shall be included for payment in the lump sum bid for Item 614 - Maintaining Traffic.
- While the need for certain advisory signing is noted hereon, it is not intended that this be indicative of all signing that may be required to advise or warn motorists, and all requirements of the Ohio Manual of Uniform Traffic Control Devices (OMUTCD) must be fulfilled.
- In urban or otherwise heavily developed areas where pedestrians and/or bicyclists may be present in significant numbers, additional signing and protective measures other than those shown hereon may be required.
- The drop-off treatment selected for use at any given location shall be as appropriate for the prevailing conditions at the site.
- Where concrete barrier is specified, it shall be in accordance with Standard Construction Drawing MC-9.2 and Item 622.
- When drums are specified for a dropoff condition, a minimum number of four drums shall be used. Spacing shall be as indicated in the plans or as specified in the OMUTCD.
- When OW-151 (Low Shoulder) signs or OW-171 (Uneven Lanes) and OWP-171 signs are required, they shall be placed 750' in advance of the condition, on all intersecting entrance ramps within the limits of the condition and immediately beyond all intersecting roadways within the limits of the condition. When the dropoff condition extends more than one-half mile, additional signs should be erected at intervals of one mile or less.
- For locations, such as at ramps, lane shifts, lane closures, etc., where traffic is required to negotiate any difference in elevation between pavements, a 3:1 slope treatment similar to the Optional Wedge Treatment shall be provided.
- Portable concrete barrier shall be placed on the same level as the traffic surface and shall not encroach on lane width(s) designated as the minimum required for traffic use. Where drums are used, and their presence would reduce traveled lane widths to less than 10', drums may be placed on the opposite level from that of traffic provided the dropoff depth does not exceed 5" and approval is granted by the Project Engineer.
- Pavement Repairs (or similar work):
 - Lengths greater than 60 feet - utilize appropriate treatment from Condition I.
 - Lengths of 60 feet or less - repairs shall be effected in accordance with 255.08. Drums may be used as a separator adjacent to the traveled lane.

OPTIONAL WEDGE TREATMENT (MILLING OR RESURFACING)

- This treatment may be used when permitted for Condition I only.
- OW-171 and OWP-171 signs required.



CONDITION I

DROPOFFS BETWEEN TRAVELED LANES

- These treatments are to be used for resurfacing, pavement planing, excavation, etc. between or within traveled lanes.

D (In.)	Treatment
≤ 1/2	Erect OW-171 and OWP-171 signs.
> 1/2 - 3	1) Lane closure utilizing drums* as shown below OR 2) Optional Wedge Treatment
> 3 - 5	Lane closure utilizing drums as shown below.
> 5	Lane closure utilizing portable concrete barrier as shown below.

*Cones may be used for daytime only conditions.



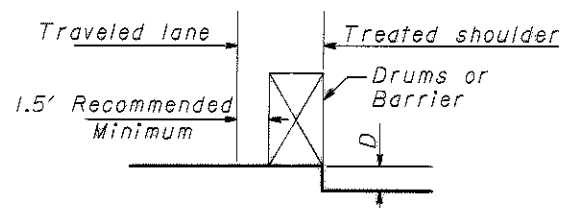
CONDITION II

DROPOFFS WITHIN GRADED SHOULDER AREA

- The treatments indicated below are for use in conjunction with resurfacing, planing, or excavations within the graded shoulder area.
- The graded shoulder area is that flat or gradually sloping area between the edge of a normally traveled lane and the more steeply sloping ditch foreslope or embankment slope. Its surface may be soil or turf, and/or it may be inclusive of a "treated" area (improved with aggregates, asphaltic materials, or concrete). For the purposes herein, its maximum width shall be considered to be twelve (12) feet.

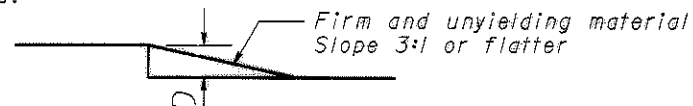
D (In.)	Treatment
≤ 1/2	1) If edgelines are present, no treatment necessary OR 2) Erect OW-171 and OWP-171 signs.
> 1/2 - 5	1) If min. lane width requirements can be met, maintain lanes utilizing drums as shown below OR 2) If min. lane width requirements cannot be met, close adjacent lane utilizing drums OR 3) Optional Shoulder Treatment.
> 5 - 12 Daylight only	If min. lane width requirements can be met, maintain lanes utilizing drums as shown below.
> 5 - 24	1) If min. lane width requirements can be met, maintain lanes utilizing portable concrete barrier as shown below. OR 2) If min. lane width requirements cannot be met, close adjacent lane utilizing drums.
> 24	Lane closure utilizing portable concrete barrier as shown below.

*Minimum lane widths shall be 10' unless otherwise specified in the plans.



OPTIONAL SHOULDER TREATMENT

- This treatment may not be used within a bituminous shoulder where a hot longitudinal joint per 401.15 is required.
- OW-151 signs required.



MUS-22-0.00	MUS-719-0.00
MUS-22-9.77	MUS-719-0.04
MUS-22D-0.00	MUS-555-11.28
MUS-146-15.31	MUS-60-16.76

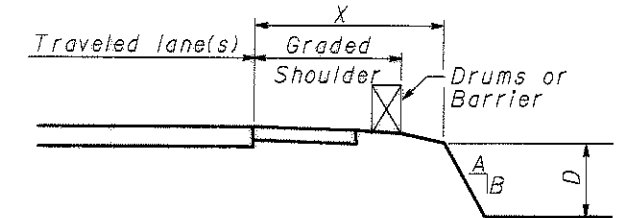
CONDITION III

DROPOFFS BEYOND GRADED SHOULDER OR BACK OF CURB

- See Note 2 under Condition II.
- Use Chart A or B below, as applicable.

CHART A

- USE FOR:
- Uncurbed Facilities.
 - Curbed Facilities, where:
 - Curbs are less than 6" in height.
 - Curbs are 6" or greater in height and the legal speed is greater than 40 mph.

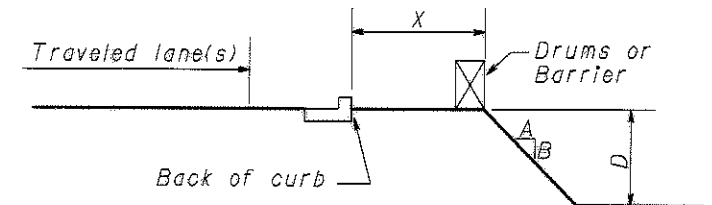


X (Ft.)	D (In.)	A/B	Treatment Required	
			Day	Night
0-4	Any	Any	(a)	(a)
4-30	Any	3:1 or Flatter	None	None
4-12	< 3	Steeper than 3:1	None	None
4-12	> 3 - < 12	Steeper than 3:1	Drums	Drums
4-12	> 12	Steeper than 3:1	Drums	Barrier
> 12 - 20	< 12	Steeper than 3:1	None	None
> 12 - 20	> 12 - < 24	Steeper than 3:1	Drums	Drums
> 12 - 20	> 24	Steeper than 3:1	Drums	Barrier
> 20 - 30	< 24	Steeper than 3:1	None	Drums
> 20 - 30	> 24	Steeper than 3:1	Drums	Barrier
> 30	Any	Any	None	None

(a) Use treatment specified under Condition II.

CHART B

- USE FOR: Curbed facilities, where the curb is 6" or greater in height and the legal speed is 40 mph or less.



X (Ft.)	D (In.)	A/B	Treatment Required	
			Day	Night
0-10	< 12	Any	None	Drums
0-10	> 12	Any	Drums	Drums
> 10	Any	Any	None	None

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF LOCATION AND DESIGN

DROPOFFS IN WORK ZONES

DESIGNED: DRAWN: TRACED: CHECKED: REVIEWED: DATE: REVISED:

RPM GENERAL NOTES

MATERIALS SUPPLIED BY THE DEPARTMENT

ALL MATERIALS ARE TO BE CONTRACTOR FURNISHED, EXCEPT THAT THE DEPARTMENT SHALL SUPPLY RAISED PAVEMENT MARKING CASTINGS IN THE QUANTITIES SHOWN HEREIN TO THE CONTRACTOR. PAY ITEMS FOR THE DEPARTMENT SUPPLIED MATERIALS SHALL BE INDICATED IN "INSTALLATION ONLY". THE QUANTITY AND TYPE OF DEPARTMENT SUPPLIED MATERIALS ARE SHOWN ON SHEETS 15,16.

THE CONTRACTOR SHALL PICK UP THE SUPPLIED RAISED PAVEMENT MARKER MATERIALS AT THE
O.P.I.
315 PHILLIPI RD.
COLUMBUS, OHIO 45895

FOR TRANSPORT TO THE WORK SITE OR TO THE CONTRACTOR'S STORAGE FACILITY. THE RECYCLED RAISED PAVEMENT MARKER (RPM) AUTHORIZATION FORM (SS 1082) IS TO BE SIGNED BY THE DISTRICT CONSTRUCTION ENGINEER PRIOR TO PICK UP OF THE RPM'S. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND/OR THE PARTIES LISTED ON THE AUTHORIZATION FORM IN WRITING AT LEAST FIVE CALENDAR DAYS PRIOR TO PICK UP OF THE DEPARTMENT SUPPLIED MATERIALS. THE CONTRACTOR SHALL STORE THE RPM'S WITHOUT DAMAGE OR CONTAMINATION WITH FOREIGN MATTER. A DEDUCTION IN THE AMOUNT OF THE ACTUAL COST TO THE DEPARTMENT SHALL BE MADE FOR THE MATERIALS DAMAGED BY THE CONTRACTOR OR FOR CASTINGS RECEIVED BY THE CONTRACTOR WHICH WERE NOT INSTALLED AND WERE NOT RETURNED TO THE DEPARTMENT.

RETURN OF NON-PERFORMED RAISED PAVEMENT MARKER MATERIALS SUPPLIED BY THE DEPARTMENT

RAISED PAVEMENT MARKER MATERIALS SUPPLIED BY THE DEPARTMENT, THAT ARE NON-PERFORMED, SHALL BE CAREFULLY PACKED OR REPACKED IN THE BOXES SUPPLIED BY THE RAISED PAVEMENT MARKER RECYCLER. BOXES SHALL BE MARKED WITH THE RECYCLER'S PART OR CATALOG NUMBER, THE ODOT PROJECT NUMBER, THE STYLE OF THE CASTING, AND THE COLOR OF THE PRISMATIC RETRO-REFLECTOR. THE RECYCLER'S CATALOG OR PART NUMBERS MAY BE OBTAINED FOR THE OFFICE OF TRAFFIC ENGINEERING IN COLUMBUS, OHIO. CASTING STYLES SHALL NOT BE MIXED WITHIN A BOX. ANY BOXES NOT PROPERLY PACKED OR MARKED WILL NOT BE ACCEPTED AT THE RECYCLER'S WAREHOUSE.

THE BOXES SHALL BE PLACED ON SKIDS OR PALLETS WITH ONLY ONE STYLE (LOW PROFILE OR CONVENTIONAL, REFLECTORIZED OR NON-REFLECTORIZED) AND NO MORE THAN TWENTY-ONE BOXES (420 RPM'S) ON EACH SKID.

NON-PERFORMED MATERIALS SHALL BE RETURNED, TO A LOCATION SPECIFIED BY THE DISTRICT CONSTRUCTION ENGINEER, WITHIN THIRTY CALENDAR DAYS OF THE COMPLETION OF THE PROJECT.

THE ABOVE WORK INCLUDING ALL LABOR, EQUIPMENT, AND MATERIAL NEEDED TO PERFORM THE WORK, SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE PAY ITEM.

IF THE DEPARTMENT HAS TO REPACKAGE THE RPM'S CORRECTLY, THE CONTRACTOR WILL BE ASSESSED THE ACTUAL COST FOR REPACKAGING THE MATERIALS BY THE DEPARTMENT'S FORCES.

LOADING OF MATERIALS SUPPLIED BY THE DEPARTMENT OF THE RECYCLER'S WAREHOUSE

TRUCKS SHALL HAVE A LOADING HEIGHT OF 48 INCHES AND BE ABLE TO BACK UP FLUSH TO THE LOADING DOCK. TRUCKS SHALL NOT HAVE ANY OBSTRUCTIONS THAT PREVENT THE LOADING BY A STANDARD FORKLIFT OR LIFT TRUCK.

SEMI-TRUCKS OR 20 FOOT COMMERCIAL TRUCKS ARE THE MOST APPROPRIATE TRUCKS FOR LOADS IN EXCESS OF FOUR PALLETS (ONE PALLET=21 BOXES=2100 POUNDS).

STAKE BODY TRUCKS ARE APPROPRIATE TO LOAD LESS THAN FOUR PALLETS, PROVIDED THE TRUCK IS RATED FOR THE LOAD AND THE LOAD CAN BE SAFELY SECURED FOR TRANSPORT BY CHAINING OR STRAPPING DOWN AS NEEDED.

PICKUP TRUCKS ARE APPROPRIATE FOR LOADS OF APPROXIMATELY ONE PALLET, PROVIDED THE PICKUP TRUCK IS RATED FOR THE LOAD AND THE LOAD CAN BE SAFELY SECURED FOR TRANSPORT.

DUMP TRUCKS, TILT BED TRUCKS, AND NON COMMERCIAL MOVING VANS WILL NOT BE LOADED BY THE RECYCLER'S WAREHOUSE.

THE WAREHOUSE SUPERVISOR WILL REFUSE TO LOAD ANY TRUCK THAT IS UNSAFE TO LOAD OR UNSUITABLE FOR THE LOAD BEING PLACED ON THE TRUCK.

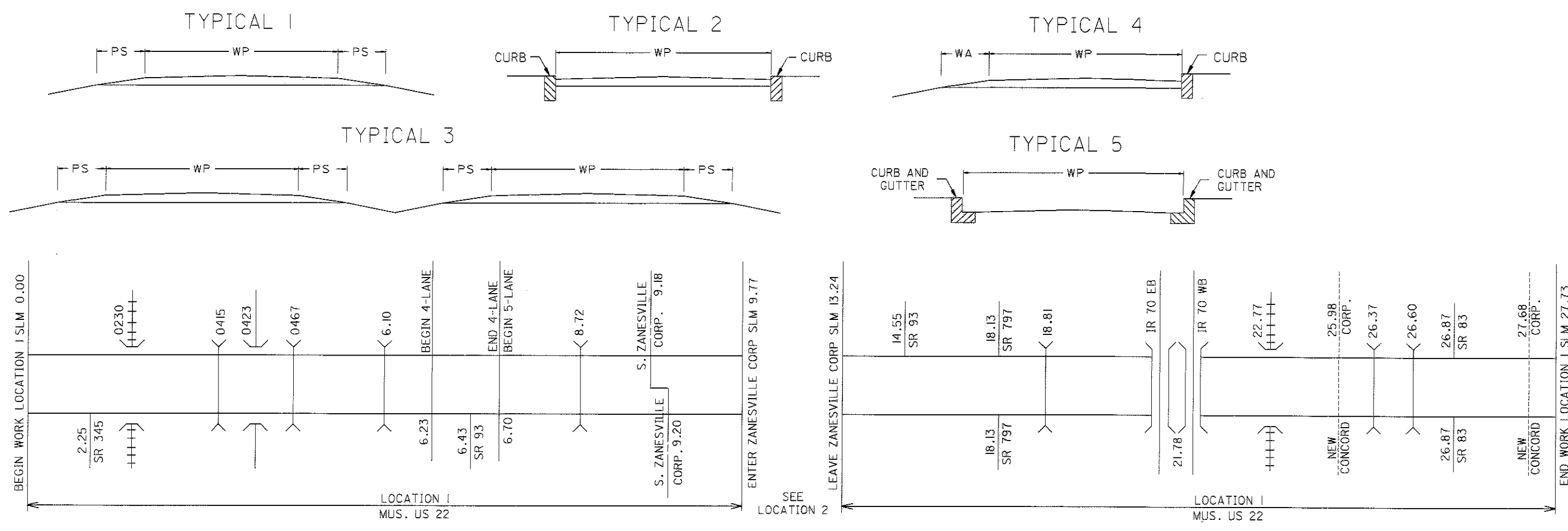
GENERAL NOTES

CALCULATED
SAB
CHECKED
LINE

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76
MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31

16
73

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		(2) AVERAGE WIDTH				PAVEMENT DATA													
SECTION	COUNTY	ROUTE	LOG POINT TO LOG POINT	LENGTH		WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YD.	PROPOSED PAVEMENT						DEPTH INCHES	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN SQ. YD.	WORK ZONE CENTER LINE, CLASS II MILE	
				MILES	LIN. FT.					407		448 ASPHALT CONCRETE		446					
										TACK COAT @ 0.075 gal./s.y. GALS.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 gal./s.y. GALS.	THICK INCHES	INTERMEDIATE COURSE, TYPE I, PG 64-22 THICK INCHES	SURFACE COURSE, TYPE I, PG 64-22 THICK INCHES	ASPHALT CONCRETE, SURFACE COURSE, TYPE IH THICK INCHES				
1	MUS	US 22	0.00-2.19	2.19	11563	24	1	448	30835	2313	1542	1.0	856.5	1.0	856.5	1.25	30835	4.38	
			2.20-2.30	0.10	533	30(2)	2	448	1777	133	89	1.0	49.4	1.0	49.4	1.25	1777	0.20	
			2.30-6.13	3.83	20222	24	1	448	53925	4044	2696	1.0	1497.9	1.0	1497.9	1.25	53925	7.66	
			6.13-6.23	0.10	553	38(2)	1	448	2335	175					1.75	2335	0.10		
			6.23-6.70	0.47	2482	24/24	3	448	13237	993					1.75	643.5	1.75	13237	
			6.70-6.97	0.27	1426	62(2)	1	448	9824	737					1.75	477.6	1.75	9824	0.54
			6.97-8.95	1.98	10454	58	1	448	67370	5053					1.75	3274.9	1.75	67370	3.96
			8.95-9.14	0.19	1003	50	4	448	5572	418					1.75	270.9	1.75	5572	0.38
			9.14-9.22	0.08	422	50	5	448	2344	176					1.75	113.9	1.75	2344	0.16
			9.22-9.77	0.55	2904	50	5	448	16133	1210					1.75	784.2	1.75	16133	1.10
			13.24-13.86	0.64	3379	31	1	448	11639	873					1.75	565.8	1.75	11639	0.64
			13.86-14.55	0.62	3274	30	1	448	10913	818					1.75	530.5	1.75	10913	0.62
			14.55-14.61	0.06	317	27(2)	1	448	951	71					1.75	46.2	1.75	951	0.12
			14.61-17.31	2.70	14256	24	1	448	38016	2851					1.75	1848.0	1.75	38016	2.70
			17.31-17.71	0.40	2112	31	1	448	7275	546					1.75	353.6	1.75	7275	0.80
			17.71-18.21	0.50	2640	24	1	448	7040	528					1.75	342.2	1.75	7040	0.50
			18.21-23.10	4.89	25819	24	1	448	68851	5164	3443	1.0	1912.5	1.0	1912.5	1.25	68851	9.78	
			23.10-23.29	0.19	1003	36	1	448	4012	301	201	1.0	111.4	1.0	111.4	VAR	4012	0.38	
			23.29-26.54	3.25	17160	52	1	448	99147	7436	4957	1.0	2754.1	1.0	2754.1	VAR	*46000	6.50	
			26.54-26.92	0.38	2006	52	1	448	11590	869	580	1.0	321.9	1.0	321.9	VAR	11590	0.76	
26.92-27.73	0.81	4277	50	2	448	23761	1782	1188	1.0	660.0	1.0	660.0	VAR	*1901	1.62				
1	MUS	US 22	TOTALS CARRIED TO SUB SUMMARY								33491	14696		8164		8164	9369.8	41540	43.8

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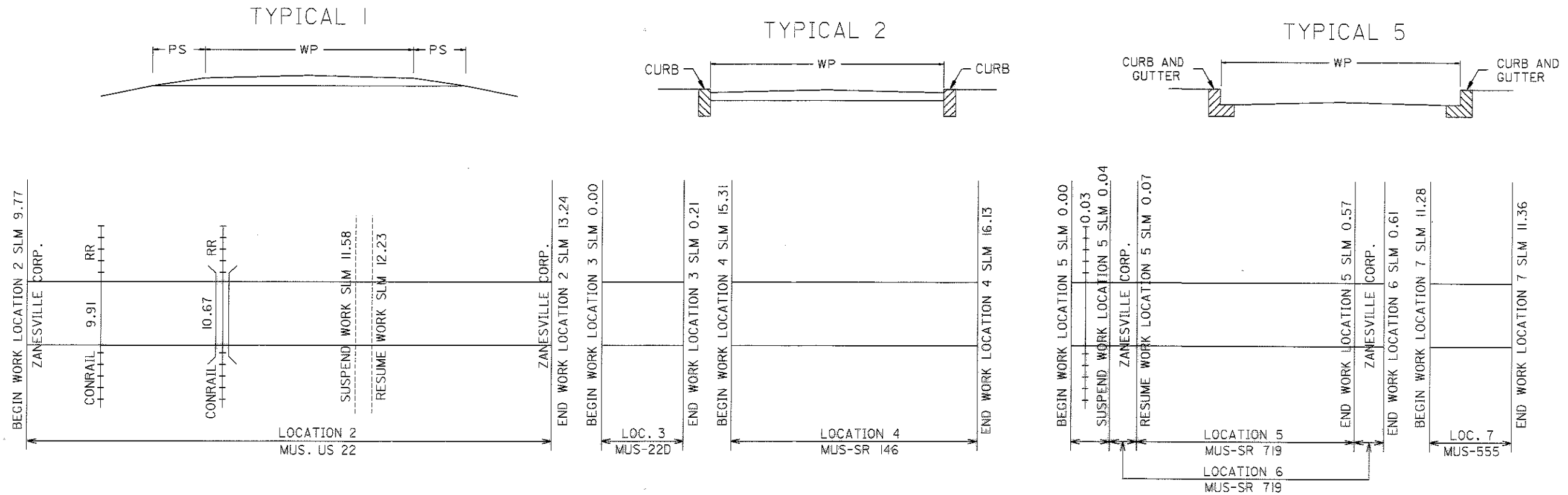
* VARIABLES WIDTH PLANING (SEE SHEETS 3-8)

*PLANING AT CURB ONLY

ASPHALT CONCRETE

MUS-22-0-00
MUS-22-9-77
MUS-22D-0-00
MUS-146-15-31
MUS-719-0-00
MUS-719-0-04
MUS-555-11-28
MUS-60-16-76

ASPHALT CONCRETE



PAVEMENT DATA

LOCATION NO.	COUNTY	ROUTE	LOG POINT TO LOG POINT	LENGTH		WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YD.	PROPOSED PAVEMENT						DEPTH INCHES	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN SQ. YD.	WORK ZONE CENTER LINE, CLASS II MILE
				MILES	LIN. FT.					407		446 ASPHALT CONCRETE		SURFACE COURSE, TYPE IH CU. YD.				
										TACK COAT @ 0.075 gal./s.y. GALS.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 gal./s.y. GALS.	THICK INCHES	INTERMEDIATE COURSE, TYPE 2, PG 76-22 CU. YD.		THICK INCHES			
2	MUS	US 22	9.77 - 10.21	0.44	2323	48	2		12389	929			1.75	602.2	1.75	12389	0.88	
			10.21 - 10.87	0.66	3485	39	2		15102	1133			1.75	734.1	1.75	15102	0.66	
			10.87 - 11.58	0.71	3749	40	2		16662	1250			1.75	810.0	1.75	16662	0.71	
			12.23 - 12.91	0.68	3590	38	2		15158	1137			1.75	736.8	1.75	15158	0.68	
			12.91 - 13.24	0.33	1742	39	2		7549	566			1.75	367.0	1.75	7549	0.33	
2	MUS	US 22	TOTALS						5015				3250.1		66860	3.26		
3	MUS	US 22D	0.00 - 0.21	0.21	1109	38	2		4682	351			1.75	227.6	1.75	4682	0.21	
4	MUS	SR 146	15.31 - 15.82	0.51	2693	30	2		8977	673			1.75	436.4	1.75	8977	0.51	
			15.82 - 16.13	0.31	1637	26	2		4729	355			1.75	229.9	1.75	4729	0.31	
4	MUS	SR 146	TOTALS						1028				666.3		13706	0.82		
5	MUS	SR 719	0.00 - 0.04	0.04	211	52	5		1219	91	61	1.75	59.2	1.5	50.8	3.25	1219	0.08
			0.07 - 0.57	0.50	2640	52	5		15253	1144	763	1.75	741.5	1.5	635.5	3.25	15253	1.00
5	MUS	SR 719	TOTALS CARRIED TO SUB SUMMARY						1235	824			800.7		686.3		16472	1.08

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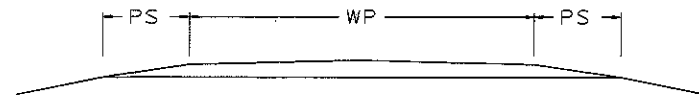
ASPHALT CONCRETE

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MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31
MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

CALCULATED
LME
CHECKED
TJD

ASPHALT CONCRETE

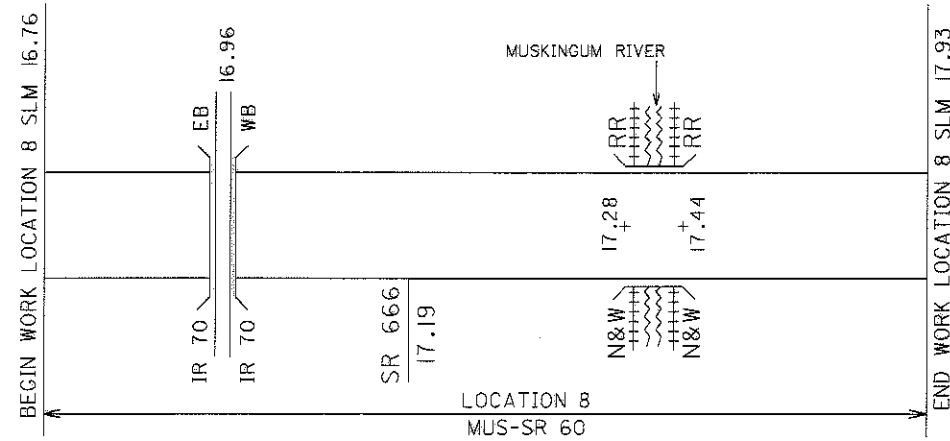
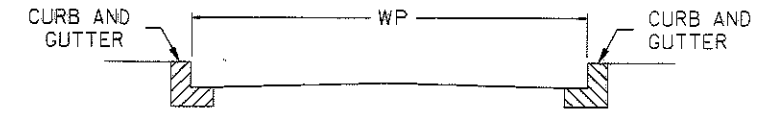
TYPICAL 1



TYPICAL 2



TYPICAL 5



* AREA FROM PREVIOUS PLAN

PAVEMENT DATA

LOCATION	COUNTY	HIGHWAY	LOG POINT TO LOG POINT	LENGTH		WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YD.	PROPOSED PAVEMENT						DEPTH INCHES	PAVEMENT PLANING, BITUMINOUS, AS PER PLAN SQ. YD.	TEMPORARY CENTER LINE, CLASS II MILE	WEARING COURSE REMOVED SQ. YD.
				MILES	LIN. FT.					446 ASPHALT CONCRETE									
										TACK COAT @ 0.075 gal./s.y. GALS.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 gal./s.y. GALS.	THICK INCHES	INTERMEDIATE COURSE, TYPE 2, PG 76-22 CU. YD.	THICK INCHES	SURFACE COURSE, TYPE 1H CU. YD.				
6	MUS	SR 719	0.04-0.07	0.03	158	52	5		913	68	46	1.75	44.4	1.5	38.0	3.25	913	0.06	
			0.57-0.61	0.04	211	52	5		1219	91	61	1.75	59.2	1.5	50.8	3.25	1219	0.08	
6	MUS	SR 719	TOTALS							159	107		103.6		88.8		2132	0.14	
7	MUS	SR 555	11.28-11.36	0.08	422	48	1		2251	169	113	1.75	109.4	1.5	93.8	3.25	2251	0.16	
8	MUS	SR 60	16.76-17.93	1.13	6178	VARIES	5		*35478	2661				1.75	1724.6	1.75	*35478		

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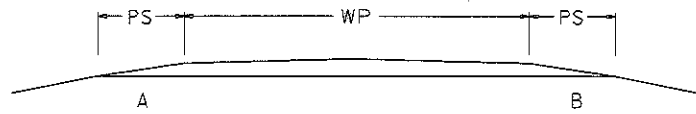
ASPHALT CONCRETE

CALCULATED LME CHECKED TJD

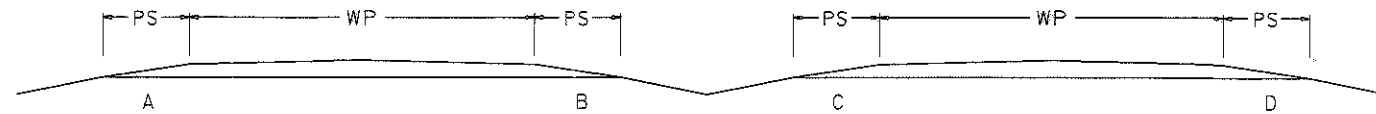
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MUS-22-9-77
MUS-719-0-04
MUS-555-11-28
MUS-60-16-31

PAVED SHOULDERS

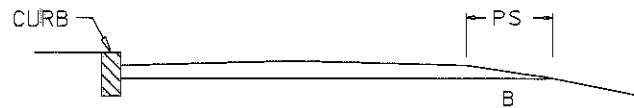
TYPICAL 1



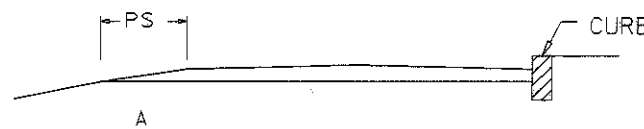
TYPICAL 2



TYPICAL 3



TYPICAL 4



* PLANING EXISTING 3' PAVED SHOULDER

BRIDGE LENGTH X SHOULDER WIDTH (I)

PAVED SHOULDER DATA

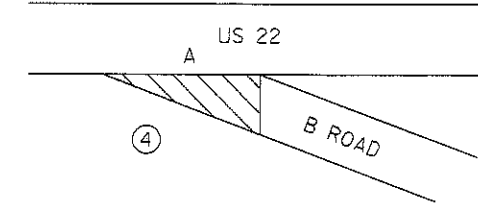
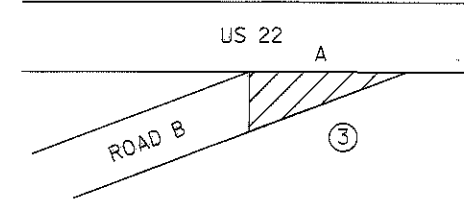
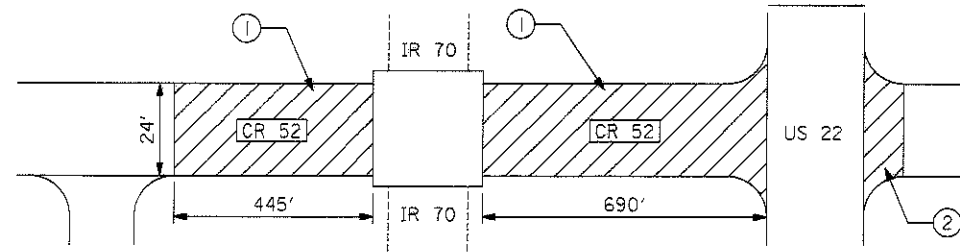
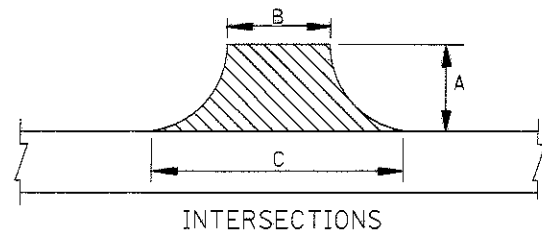
LOCATION	COUNTY	ROUTE	LOG POINT TO LOG POINT	LENGTH		TYPICAL	PROPOSED WIDTH (FT.)				SHOULDER AREA SQ.YDS.	407		448		446		254		254	NOTES			
				MILES	LIN.FT.		A	B	C	D		TACK COAT @ 0.075 gal./s.y.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 gal./s.y.	THICK	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 64-22	THICK	ASPHALT CONCRETE SURFACE COURSE TYPE I, PG 64-22	THICK	ASPHALT CONCRETE SURFACE COURSE, TYPE IH			DEPTH	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	COMPACTED AGGREGATE, TYPE A, AS PER PLAN 2' x 2" THICK
1	MUS	US 22	0.00 - 2.40	2.40	12672	1	4	4			11264	845	563	1.0	312.9	1.0	312.9		1.25	11264		313		
			2.40 - 2.48	0.08	422	1	8	8			750	56	38	1.0	20.8	1.0	20.8		1.25	750				
			2.48 - 6.13	3.65	19272	1	4	4			17131	1285					1.75	832.8	1.75	17131		476		
			6.13 - 6.70	0.57	3010	2	4		4		2676	201					1.75	130.1	1.75	2676		149		
			6.70 - 8.95	2.25	11880	1	4	4			10560	792					1.75	513.3	1.75	10560		293		
			8.95 - 9.10	0.15	792	4	4				352	26					1.75	17.1	1.75	352		10		
			13.36 - 18.21	4.85	25608	1	3	3			17072	1280					1.75	829.9	1.75	17072		632		
			18.21 - 22.31	4.10	21648	1	3	3			14432	1082	722	1.0	400.9	1.0	400.9		1.25	14432		534		
1	MUS	US 22	SUB TOTAL									5567	1323		734.6		734.6		2323.2		174237		2407	
			BIKE LANE	22.31 - 23.31	1.00	5280	1	5	5		5867	440	293		163.0		163.0				*2347		130	
			BIKE LANE	22.31 - 26.52	3.21	16949	1	5	5		18832	1412	942		523.1		523.1						418	
			BIKE LANE TOTAL									1852	1235		686.1		686.1						548	
			TOTAL CARRIED TO SUB-SUMMARY									7419	2558		1420.7		1420.7		2323.2		176584		2955	

M0220001.mps 12-30-03

CALCULATED
LME
CHECKED
TJD

PAVED SHOULDERS

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76
MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31



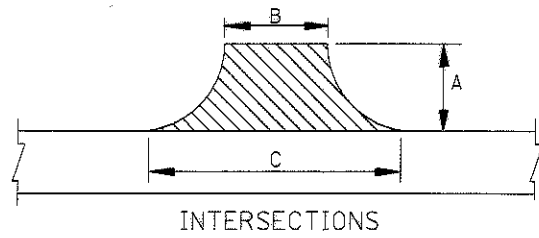
INTERSECTIONS

NO.	MUNICIPALITY	ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	INTERSECTIONS			AREA IN SQ.YD.	407		448 ASPHALT CONCRETE		446		EXISTING SURFACE	202 WEARING COURSE REMOVED SQ.YD.	
						A IN FEET	B IN FEET	C IN FEET		TACK COAT @ 0.075 gal./s.y. GAL.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 gal./s.y. GAL.	THICK INCH	INTERMEDIATE COURSE, TYPE 2, PG 64-22 CU.YD.	THICK INCH	SURFACE COURSE, TYPE 1, PG 64-22 CU.YD.			THICK INCH
TOTALS CARRIED FROM PREVIOUS SHEET										511	30	1.0	16.4	65.5	277.1	3.5	17.1	5879
1	MUS	US 22		LT	ENTRANCE TO ZANE PLAZA	15	37	58	79	6				1.75	3.8		79	
				LT	CLAY ST.	23	28	53	104	8				1.75	5.1		104	
			SEE LOCATION 2															
				RT	S. PLEASANT GROVE RD.	35	25	62	169	13				1.75	8.2		169	
				RT	BRYAN DR.	30	27	66	155	12				1.75	7.5		155	
				RT	BROOKSIDE DR.	24	28	70	131	10				1.75	6.4		131	
				RT	INDUSTRIAL BLVD.	28	33	80	176	13				1.75	8.6		176	
				LT	DOZER DR.	38	24	95	251	19				1.75	12.2		251	
				RT	OLD WHEELING RD	32	26	75	180	13				1.75	8.8		180	
				LT	JACKSON RD.	27	28	82	165	12				1.75	8.0		165	
				RT	HICKS RD.	21	24	43	78	6				1.75	3.8		78	
				LT	C.R. 52 ①				3276	246				1.75	159.2		3276	
				RT	AIRPORT RD ②	50	32	108	389	29				1.75	18.9		389	
				RT	CINDERPIT RD. ③	73	27		110	8			2.0	6.1		110		
				RT	CINDERPIT RD. ④	86	29		139	10			2.0	7.7		139		
				LT	BALD HILL RD.	30	21	75	160	12			2.0	8.9		160		
				RT	BRANCH RD.	22	30	90	147	11			2.0	8.2		147		
				LT	BRIDGEVILLE RD. ③	84	26		121	9			2.0	6.7		121		
				LT	DEERFIELD RD.	20	22	59	90	7			2.0	5.0		90		
				RT	SPRY RD.	50	25	102	353	26			2.0	19.6		353		
				LT	BRIDGEFIELD RD. ④	106	38		224	17			2.0	12.4		224		
				LT	ROAD	30	18	45	105	8			2.0	5.8		105		
				RT	URBAN HILL RD.	35	24	74	191	14			2.0	10.6		191		
				LT	ARCHHILL RD.	40	21	74	211	16			2.0	11.7		211		
				RT	RILEY RD.	35	25	70	185	14			2.0	10.3		185		
				RT	ZANE GREY RD.	22	25	68	114	9			2.0	6.3		114		
				LT	NORWICH VALLEY RD.	50	25	108	369	28			2.0	20.5		369		
				LT	BRICK RD.	50	22	82	289	22			2.0	16.1		289		
				RT	ROAD	22	19	56	92	7			2.0	5.1		92		
				LT	NORWICH DR	20	39	70	121	9			2.0	6.7		121		
				RT	SUNSET DR	20	20	99	132	10			2.0	7.3		132		
				LT	SUNDALE RD.	20	20	55	83	6			2.0	4.6		83		
				LT	MOOSE EYE RD.	20	20	80	111	8			2.0	6.2		111		
				RT	S. MOOSE EYE RD.	20	20	85	117	9			2.0	6.5		117		
				LT	NORWICH DR.	20	20	64	93	7			2.0	5.2		93		
				RT	N. HOMESTEAD DR.	20	20	61	90	7			2.0	5.0		90		
				LT	FOX CREEK RD.	20	20	55	83	6			2.0	4.6		83		
1	MUS	US 22			TOTALS CARRIED TO NEXT SHEET					1178	30	1.0	16.4	131	556.6	7	194.2	14762

CALCULATED LIME CHECKED T.J.D.
 EXTRA AREAS
 MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-22D-0.00
 MUS-146-15.31
 21
 73

m0220002.med 12-30-03

EXTRA AREAS

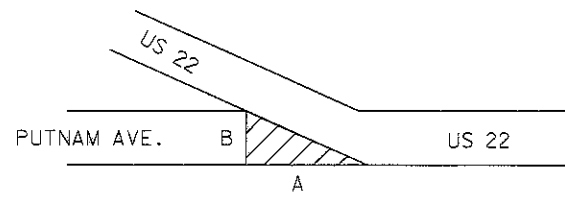
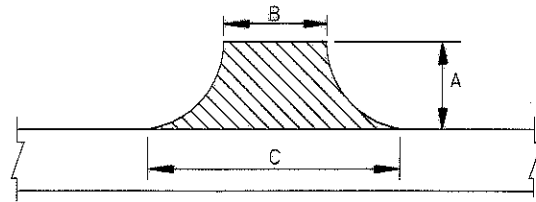


LOCATION	COUNTY	ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	INTERSECTIONS			AREA IN SQ.YD.	407		448 ASPHALT CONCRETE			446		EXISTING SURFACE	202 WEARING COURSE REMOVED SQ.YD.
						A IN FEET	B IN FEET	C IN FEET		TACK COAT @ 0.075 gal./s.y.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 gal./s.y.	THICK INCH	INTERMEDIATE COURSE, TYPE I, PG 64-22 CU.YD.	THICK INCH	SURFACE COURSE, TYPE I, PG 64-22 CU.YD.	THICK INCH		
TOTALS CARRIED FROM PREVIOUS SHEET										1178	30	1.0	16.4	131	556.6	194.2		14762
I	MUS	US 22			MAPLE BROOK RD.	20	20	20	78	6				2	4.3		78	
				RT	RIX MILLS RD.	23	50	110	204	15				2	11.3		204	
					EXTRA AREA AFTER RIX MILLS	12	170		260	20				2	14.4		260	
				LT	SHADYSIDE DR.	25	18	39	79	6				2	4.4		79	
				LT	GARFIELD AVE.	15	20	45	54	4				2	3.0		54	
				LT	SR. 83	40	26	75	224	17	11	1	6.2	1	6.2		224	
				RT	SR. 83	55	32	107	425	32	21	1	11.8	1	11.8		425	
				LT	ALLEY	15	18		30	2				2	1.7		30	
				LT	ALLEY	15	15	27	35	3				2	1.9		35	
				RT	ALLEY	17	12	26	36	3				2	2.0		36	
				LT	COMIN ST.	20	28	50	87	7				2	4.8		87	
				LT	STORMONT AVE.	25	28	52	111	8				2	6.2		111	
				RT	MAPLE AVE.	17	15	24	37	3				2	2.1		37	
				LT	ALLEY	15	12	24	30	2				2	1.7		30	
				RT	ALLEY	17	15	27	40	3				2	2.2		40	
				LT	ALLEY	17	20	38	55	4				2	3.		55	
				LT	EXIT FROM COLLEGE	20	15	48	70	5				2	3.9		70	
				RT	DEPOT ST.	15	20	30	42	3				2	2.3		42	
				LT	ENTRANCE TO COLLEGE	18	16	37	53	4				2	2.9		53	
				LT	LAYTON DR.	18	20	35	55	4				2	3.1		55	
				RT	LAYTON DR.	18	22	41	63	5				2	3.5		63	
				LT	ALLEY	18	18	24	42	3				2	2.3		42	
				RT	ALLEY	20	16	25	46	3				2	2.6		46	
				LT	LIBERTY ST.	21	20	38	68	5				2	3.8		68	
				RT	LIBERTY ST.	20	20	45	72	5				2	4.0		72	
				LT	ALLEY	18	14	26	40	3				2	2.2		40	
				RT	ALLEY	16	15	25	36	3				2	2.0		36	
				LT	FRANKLIN ST.	17	16	29	43	3				2	2.4		43	
				RT	FRANKLIN ST.	16	20	40	53	4				2	2.9		53	
				LT	ALLEY	16	14	26	36	3				2	2.0		36	
				RT	ALLEY	15	16	26	35	3				2	1.9		35	
				LT	ALLEY	16	9	14	20	2				2	1.1		20	
				RT	DELAWARE ST.	18	27	45	72	5				2	4.0		72	
				LT	ROAD	18	13	29	42	3				2	2.3		42	
				RT	ALLEY	89	37		183	14				2	10.2		183	
I	MUS	US 22			TOTALS					1393	62	3	34.4	199	697.1	194.2	17618	

m0220003.mec 12-30-03

CALCULATED L.M.E. CHECKED T.J.D.
 EXTRA AREAS
 MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-22D-0.00
 MUS-146-15.31
 22
 73

EXTRA AREAS



INTERSECTIONS

*AREA FROM ORIGINAL PLAN

LOCATION	COUNTY	ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	INTERSECTIONS			AREA IN SQ.YD.	407		448 ASPHALT CONCRETE			EXISTING SURFACE	202 WEARING COURSE REMOVED SQ.YD.	408 BITUMINOUS PRIME COAT @ 0.40 gal./s.y. GAL.
						A IN FEET	B IN FEET	C IN FEET		TACK COAT @ 0.075 gal./s.y. GAL.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 gal./s.y. GAL.	THICK INCH	INTERMEDIATE COURSE, TYPE 2, PG 64-22 CU.YD.	THICK INCH			
2	MUS	US 22	ZANESVILLE	LT	FEDERAL AVE.				187*	14			1.75	9.1	187*		
				LT	ARCH ST.				180*	14			1.75	8.8	180*		
				LT	PINE ST.				536*	40			1.75	26.1	536*		
				LT	ALFRED ST.				225*	17			1.75	10.9	225*		
				LT	GROVE ST.				317*	24			1.75	15.4	317*		
				RT	ARTHUR ST.				187*	14			1.75	9.1	187*		
				LT	MERRICK AVE.	15	29	44	61	5			1.75	3.0	61		
				LT	ECHO AVE.	15	35	55	75	6			1.75	3.6	75		
				LT	SMITHFIELD AVE.	15	31	55	72	5			1.75	3.5	72		
				LT	EPPLEY AVE.	15	50	67	98	7			1.75	4.8	98		
				LT	SEBORN AVE.	15	40	58	82	6			1.75	4.0	82		
				LT	SPENCE AVE.	10	15	21	20	2			1.75	1.0	20		
				RT	WOODLAWN AVE.	60	30	81	370	28			1.75	18.0	370		
				RT	ALLEY	15	9	17	22	2			1.75	1.0	22		
				LT	ALLEY	10	9	13	12	1			1.75	0.6	12		
				LT	ALLEY	10	17	17	19	1			1.75	0.9	19		
LT	WELLER AVE.	10	35	44	44	3			1.75	2.1	44						
RT	PUTNAM AVE. ①	120	65		433	33			1.75	21.0	433						
2	MUS	US 22	ZANESVILLE		TOTALS					222			143		2940		

m0220004.mec 12-30-03

CALCULATED LIME CHECKED TJD
 EXTRA AREAS
 MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-220-0.00
 MUS-146-15.31
23
73

LOCATION 1

MUS-22-0230: BUTT JOINT @ APPROACH SLABS
 MUS-22-0415: REMOVE 1.25" ASPHALT CONCRETE, REPLACE 2.0" ASPHALT CONCRETE
 MUS-22-0423: REMOVE 1.25" ASPHALT CONCRETE, REPLACE 2.0" ASPHALT CONCRETE
 MUS-22-0467: REMOVE 1.25" ASPHALT CONCRETE, REPLACE 2.0" ASPHALT CONCRETE
 MUS-22-0610: BUTT JOINT @ APPROACH SLABS
 MUS-22-0872: REMOVE AND REPLACE 1.75" ASPHALT CONCRETE
 MUS-22-1881: BUTT JOINT @ BRIDGE DECK
 MUS-22-2095: REMOVE 1.25" ASPHALT CONCRETE, REPLACE 2.0" ASPHALT CONCRETE
 MUS-22-2178: OVERHEAD
 MUS-22-2277: BUTT JOINT @ APPROACH SLABS
 MUS-22-2637: SEE SHEETS XX-XX
 MUS-22-2660: REMOVE 1.25" ASPHALT CONCRETE, REPLACE 2.0" ASPHALT CONCRETE

LOCATION 2

MUS-22-0998: REMOVE AND REPLACE 1.75" ASPHALT CONCRETE
 MUS-22-1067: OVERHEAD

LOCATION 8

MUS-60-1728: BUTT JOINT @ EXPANSION JOINT

BRIDGE DECK DATA

LOCATION	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS) FEET	WIDTH FEET	BRIDGE DECK AREA SQ.YDS.	BRIDGE DECK DATA												SEE BRIDGE DETAILS SHEET 25	
					202	407			446	448 ASPHALT CONCRETE				516				
					WEARING COURSE REMOVED DEPTH VAR." SQ.YDS.	TACK COAT @ 0.075 GAL./S.Y. GAL.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S.Y. GAL.	TACK COAT 70213 @ 0.75 GAL./S.Y. GAL.	THICK INCH	ASPHALT CONCRETE SURFACE COURSE, TYPE IH CU.YDS.	THICK INCH	INTERMEDIATE COURSE, TYPE 1, PG 64-22 CU.YDS.	INTERMEDIATE COURSE, TYPE 2, PG 64-22 CU.YDS.	THICK INCH	SURFACE COURSE, TYPE 1, PG 64-22 CU.YDS.	2" DEEP JOINT SEALER, AS PER PLAN FEET		
1	MUS-22-0230	497.7	35	1936													70	①
	MUS-22-0415	171.6	44	839	839	63	42			1.0	23.3		1.0	23.3				
	MUS-22-0423	160.0	30	533	533	40	27			1.0	14.8		1.0	14.8				
	MUS-22-0467	105.6	44	516	516	39	26			1.0	14.3		1.0	14.3				
	MUS-22-0610	132.5	36	530													72	①
	MUS-22-0872	31.0	72	248	248	19			1.75	12.1								
	MUS-22-1881	50.0	34	189														②
	MUS-22-2095	57.0	34	215	215	16	11			1.0	6.0		1.0	6.0			68	③
	MUS-22-2277	273.7	34	1034														
	MUS-22-2637						3	3				1.8		1.3				
	MUS-22-2660	38.0	72	304	304	23	15			1.0	8.4		1.0	8.4				
1	TOTALS				2655	200	124	3		12.1		66.8	1.8	68.1			210	
2	MUS-22-0998	14.5	54	87	87	7			1.75	4.2								
8	MUS-60-1728	840.6	27/27															④

m0220001.mbt 2-4-04

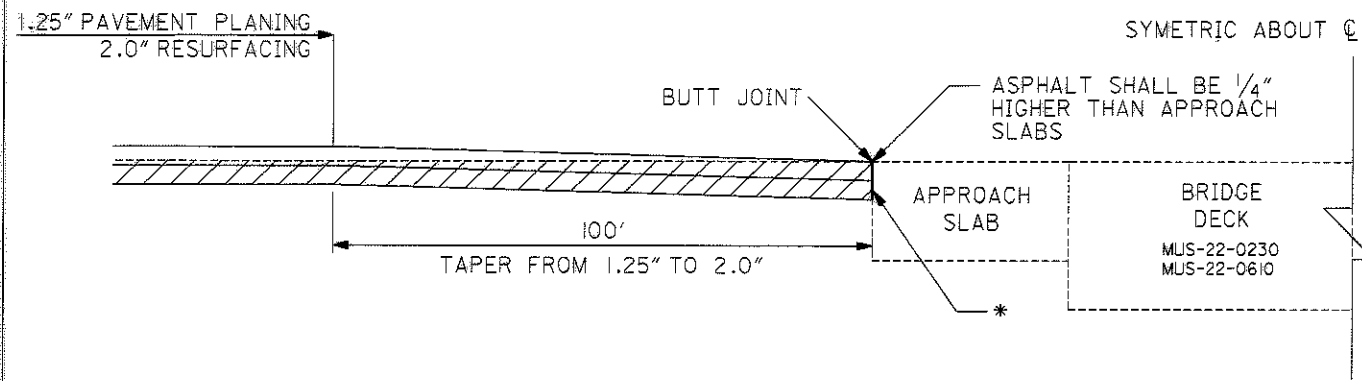
CALCULATED
LME
CHECKED
TJD

BRIDGE DECK TREATMENT

MUS-22-0-00
MUS-22-9-77
MUS-22D-0-00
MUS-146-15-31
MUS-719-0-00
MUS-719-0-04
MUS-555-11-28
MUS-60-16-76

24
73

DETAIL ①

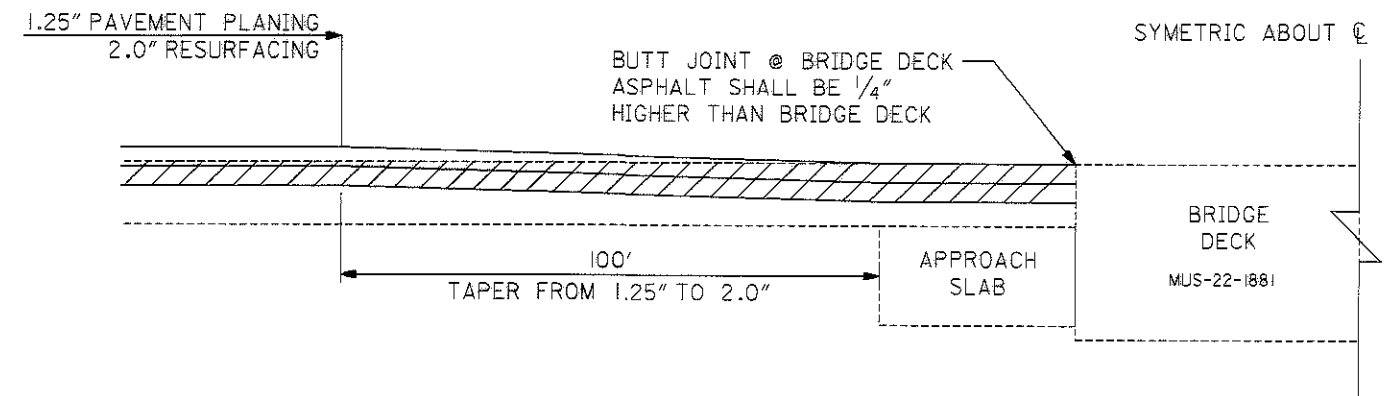


BRIDGE DEDUCTIONS
(APPROACH SLABS ADDED TO LENGTH)

MUS-22-0230: 558' X 24' / 9 = 1488 SQ.YD.
MUS-22-0610: 183' X 24' / 9 = 488 SQ.YD.

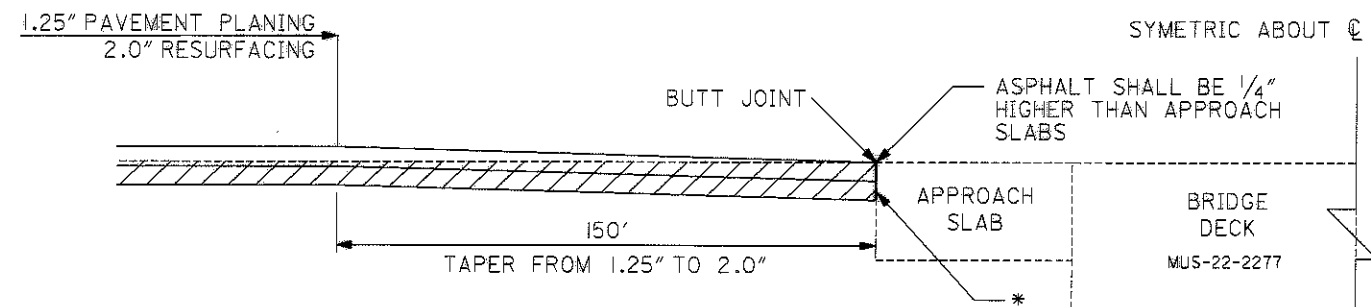
* 2" DEEP JOINT SEALER, AS PER PLAN
A 1/2" WIDE X 2.0" DEEP BEAD OF JOINT SEALER (AS PER 705.04) SHALL BE PLACED BETWEEN THE APPROACH SLABS AND THE ASPHALT CONCRETE PAVEMENT. THE COST FOR SAW CUTTING THE CHANNEL FOR THE JOINT SEALER SHALL BE INCLUDED FOR PAYMENT WITH ITEM 516 2" DEEP JOINT SEALER, AS PER PLAN.

DETAIL ②



BRIDGE DEDUCTIONS
MUS-22-1881: 50' X 24' / 9 = 133 SQ.YD.

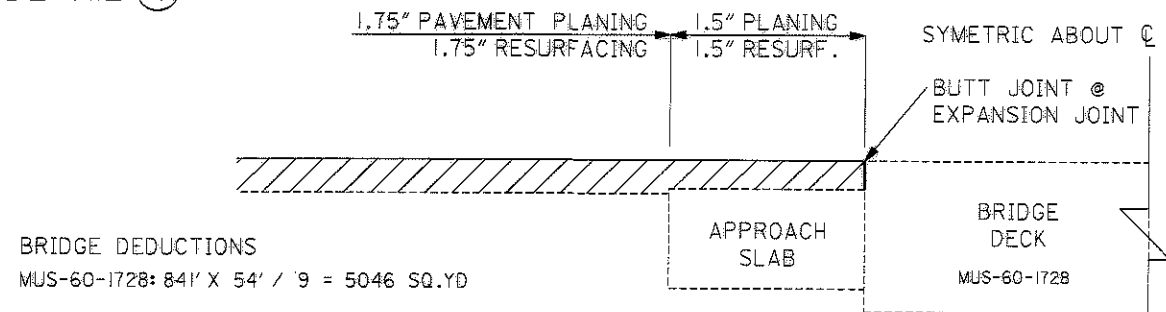
DETAIL ③



BRIDGE DEDUCTIONS
(APPROACH SLABS ADDED TO LENGTH)
MUS-22-2277: 324' X 24' / 9 = 864 SQ.YD.

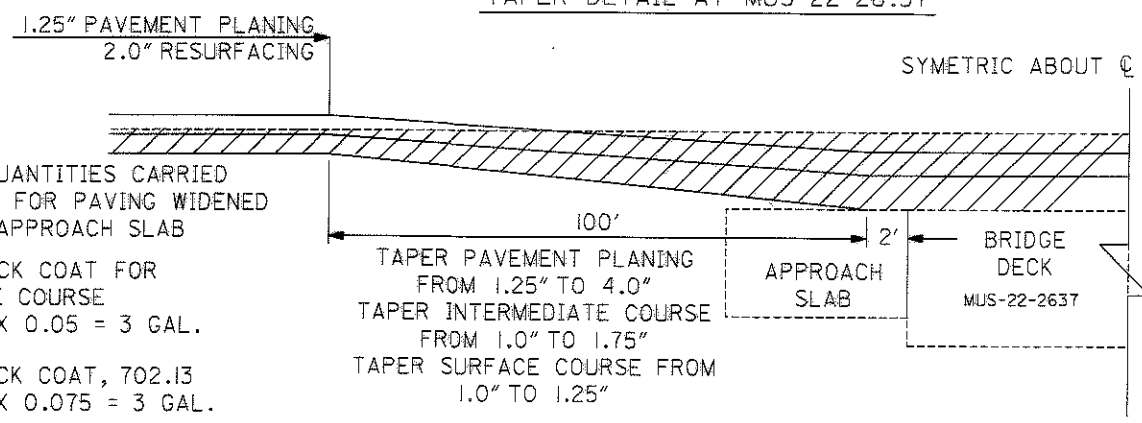
* 2" DEEP JOINT SEALER, AS PER PLAN
A 1/2" WIDE X 2.0" DEEP BEAD OF JOINT SEALER (AS PER 705.04) SHALL BE PLACED BETWEEN THE APPROACH SLABS AND THE ASPHALT CONCRETE PAVEMENT. THE COST FOR SAW CUTTING THE CHANNEL FOR THE JOINT SEALER SHALL BE INCLUDED FOR PAYMENT WITH ITEM 516 2" DEEP JOINT SEALER, AS PER PLAN.

DETAIL ④



BRIDGE DEDUCTIONS
MUS-60-1728: 841' X 54' / 9 = 5046 SQ.YD

TAPER DETAIL AT MUS-22-26.37



FOLLOWING QUANTITIES CARRIED TO SHEET XX FOR PAVING WIDENED PORTION OF APPROACH SLAB

ITEM 407 TACK COAT FOR INTERMEDIATE COURSE
36.5 SQ.YD. X 0.05 = 3 GAL.

ITEM 407 TACK COAT, 702.13
36.5 SQ.YD. X 0.075 = 3 GAL.

ITEM 448 INTERMEDIATE COURSE
36.5 SQ.YD. X 1.75"/36 = 1.8 CU.YD.

ITEM 448 SURFACE COURSE
36.5 SQ.YD. X 1.25"/36 = 1.3 CU.YD.

BRIDGE DEDUCTIONS
MUS-22-2637: 26.5' X 52' / 9 = 153 SQ.YD.

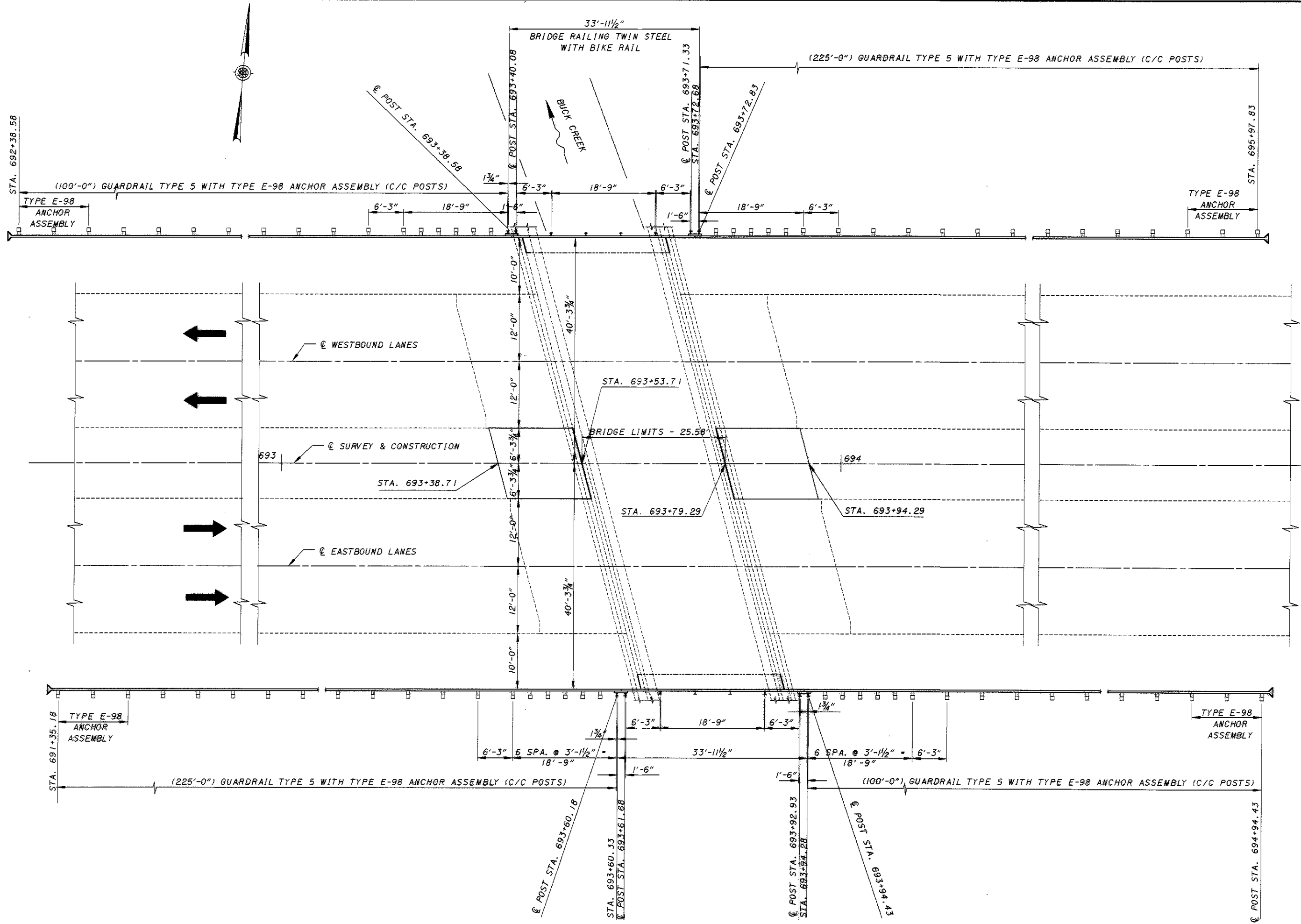
m0220002.MBT 04-14-99

BRIDGE DECK TREATMENT

CALCULATED
LIME
CHECKED
TJD

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76
MUS-22-0.00
MUS-22-9.77
MUS-220-0.00
MUS-146-15.31

25
73



DESIGNED RSD TAG	DRAWN RSD REVISED	REVIEWED DTF	DATE 02-02-04	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION
		STRUCTURE FILE NUMBER 6000908	DISTRICT 5	
PLAN VIEW BRIDGE NO. MUS-22-2637 OVER BUCK CREEK				
MUS-22-0-00	MUS-719-0-00	MUS-22-9-77	MUS-719-0-04	MUS-719-0-04
MUS-220-0-00	MUS-220-0-00	MUS-146-15-31	MUS-555-11-28	MUS-555-11-28

EXISTING PLANS

EXISTING PLANS ENTITLED MUS-22-(23.44-26.85) MAY BE INSPECTED IN THE ODOT DISTRICT 5 OFFICE IN JACKSONTOWN, OHIO.

GENERAL PROVISIONS

THE CONTRACTOR'S ATTENTION IS CALLED TO ALL OF SECTION 100 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION.

REMOVED MATERIALS

ALL REMOVED MATERIALS EXCEPT AS NOTED ELSEWHERE IN THE PLANS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY HIM FROM THE JOB SITE.

DESIGN SPECIFICATIONS

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

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 AND 105.02.

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

PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

DESCRIPTION:

THIS WORK SHALL CONSIST OF THE REMOVAL OF CONCRETE DECK EDGES AND PORTIONS OF THE DECK AT CENTERLINE OF THE STRUCTURE. CARE SHALL BE TAKEN DURING DECK REMOVALS TO PROTECT THE REMAINING PORTION OF THE DECK. THE USE OF 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 (VEHICULAR AND PEDESTRIAN) ADJACENT TO AND/OR UNDER THE STRUCTURE TO THE DIRECTOR FOR APPROVAL. THESE PLANS SHALL INCLUDE PROVISIONS FOR ANY DEVICES AND STRUCTURES THAT MAY BE NECESSARY TO ENSURE SUCH PROTECTION.

CUT LINE CONSTRUCTION:

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

CONCRETE REMOVAL:

REMOVE CONCRETE 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, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

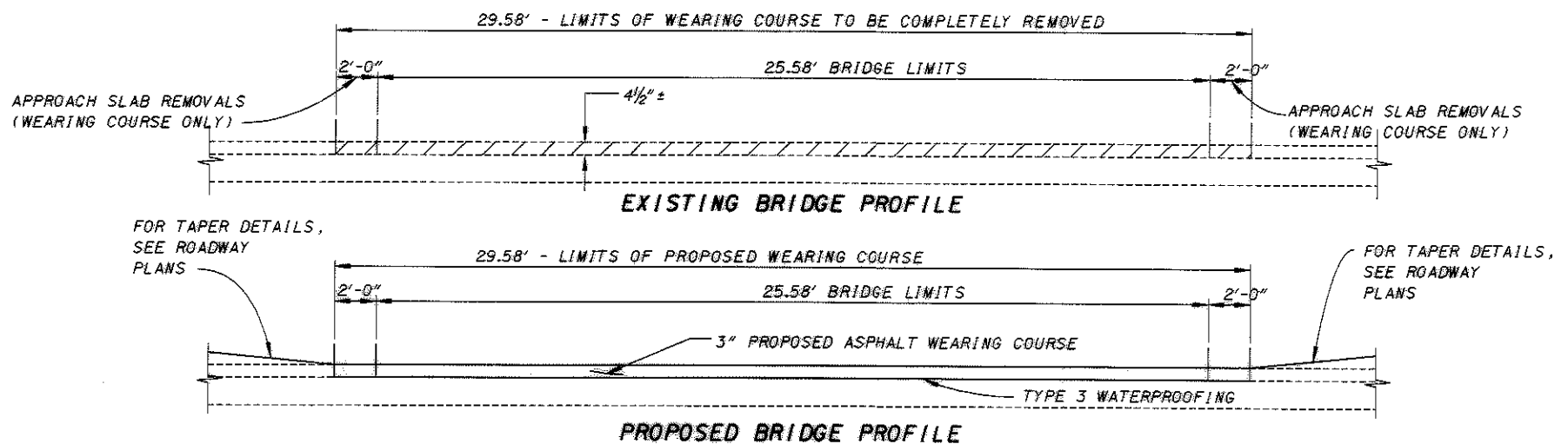
PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT CU. YD. 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.

ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
ROADWAY					
202	23500	265	SQ YD	WEARING COURSE REMOVED	
202	38000	450	FT	GUARDRAIL REMOVED	
202	42000	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A	
203	10000	35	CU YD	EXCAVATION	
203	20000	14	CU YD	EMBANKMENT	
204	10000	42	SQ YD	SUBGRADE COMPACTION	
606	13000	450	FT	GUARDRAIL, TYPE 5	
606	26100	4	EACH	ANCHOR ASSEMBLY, TYPE E	
606	35140	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4	
SPECIAL	60650000	650	FT	RESHAPING BERM	
PAVEMENT					
304	20000	7	CU YD	AGGREGATE BASE	
407	14000	13	GALLON	TACK COAT FOR INTERMEDIATE COURSE	
448	46050	13	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22 (1 3/4" THICK)	
448	47020	9	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (1 1/4" THICK)	
STRUCTURES					
202	11301	9	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE	
202	38500	62.5	FT	BRIDGE RAILING REMOVED	
509	10000	1804	POUND	EPOXY COATED REINFORCING STEEL	
510	10000	74	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
511	34400	10	CU YD	CLASS 5 CONCRETE, SUPERSTRUCTURE	
512	33010	265	SQ YD	TYPE 3 WATERPROOFING	
517	70001	67.91	FT	TWIN STEEL TUBE, AS PER PLAN	
SPECIAL	51822300	58	LIN FT	STEEL DRIP STRIP	
526	10001	42	SQ YD	REINFORCED CONCRETE APPROACH SLAB (T=12"), AS PER PLAN	
MAINTENANCE OF TRAFFIC					
614	13300	10	EACH	BARRIER REFLECTOR, TYPE B	
622	40030	160	FT	PORTABLE CONCRETE BARRIER, 50"	

TWIN STEEL TUBE, AS PER PLAN

IN ADDITION TO ITEM 517, THE FOLLOWING SHALL BE INCLUDED FOR PAYMENT: GALVANIZED HANDRAIL AND RUBRAIL, RAIL TERMINATORS AND POSTS AS DETAILED IN THE PLANS. ALL HARDWARE (BOLTS, WASHERS ETC.) NECESSARY TO COMPLETE THE RAILS IN PLACE.

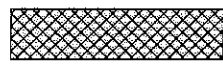


MUS-22-0.00 1. BCS SCALE 1. P1D 19947 1-27-04

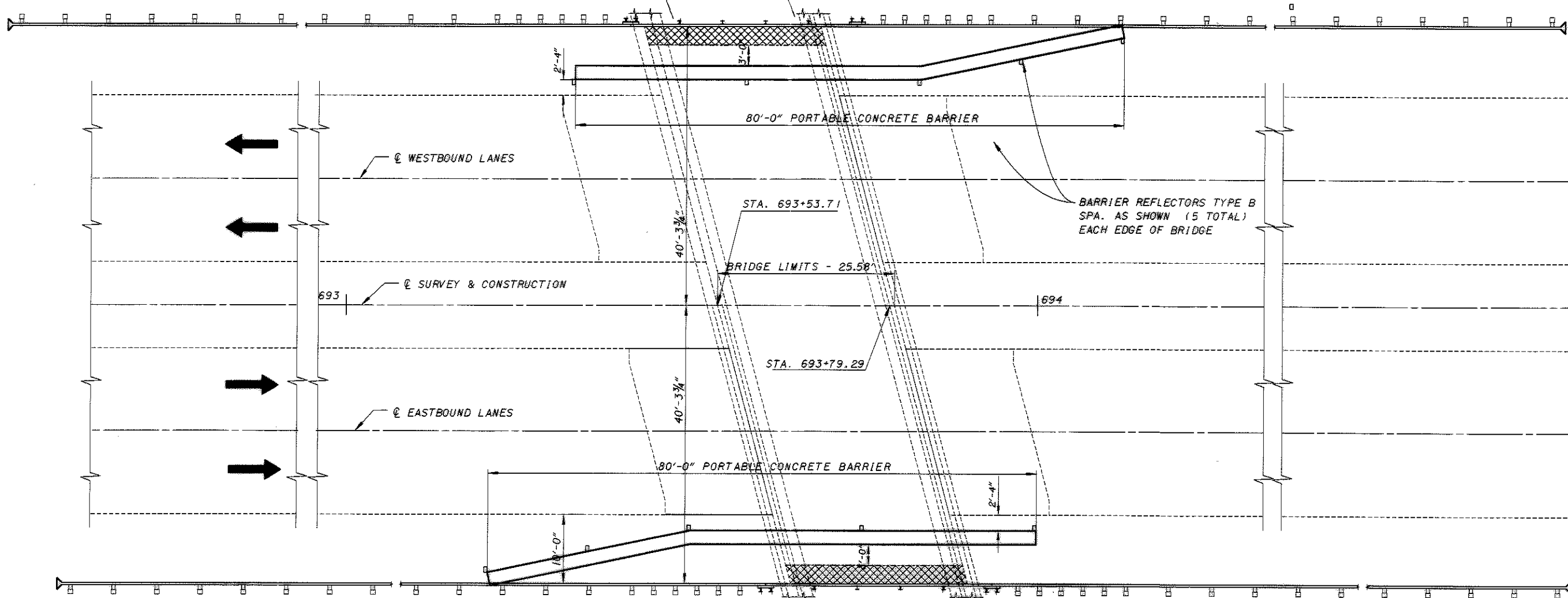
BRIDGE NOTES AND SUMMARY
 BRIDGE NO. MUS-22-2637
 OVER BUCK CREEK
 MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-220-0.00
 MUS-146-15.31
 27
 73

BRIDGE RAILING TWIN STEEL
WITH BIKE RAIL

BUCK CREEK



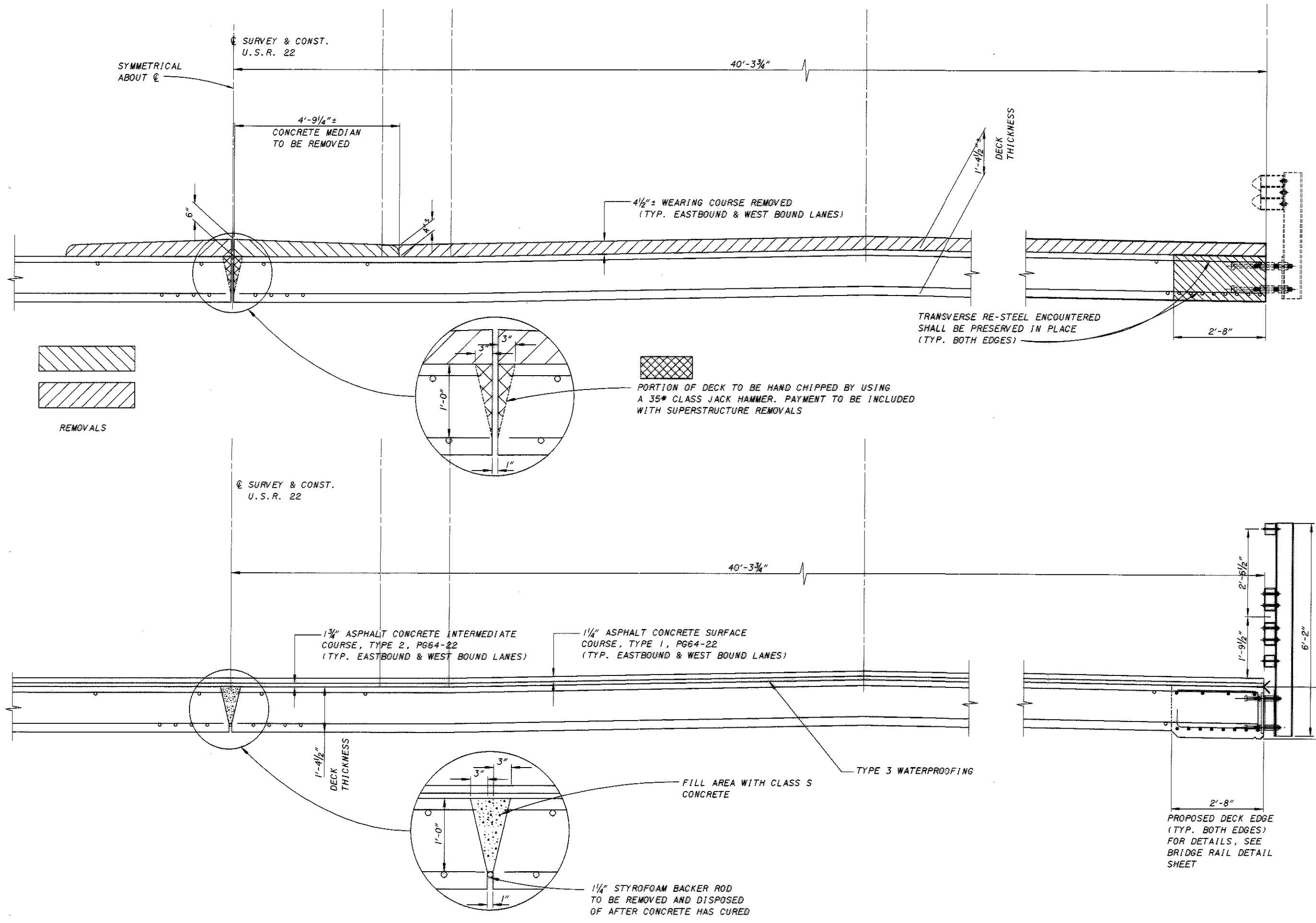
AREAS OF WORK



MO22000LBT.C SCALE 8 PID 19947 (2-02-04)

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 5	DATE 02-02-04
	REVISION DTF 6000908
DRAWN RSD	REVISION TAG
DESIGNED RSD	CHECKED TAG
MAINTENANCE OF TRAFFIC BRIDGE NO. MUS-22-2637 OVER BUCK CREEK	
MUS-22-0.00 MUS-719-0.04 MUS-719-0.04 MUS-555-11.28 MUS-60-16.76	MUS-719-0.00 MUS-719-0.04 MUS-719-0.04 MUS-555-11.28 MUS-60-16.76
MUS-22-0.00 MUS-22-9.77 MUS-22D-0.00 MUS-146-15.31	MUS-719-0.00 MUS-719-0.04 MUS-719-0.04 MUS-555-11.28 MUS-60-16.76

MO220001.BTS SCALE 1:33 P1D 19947 (02-02-04)



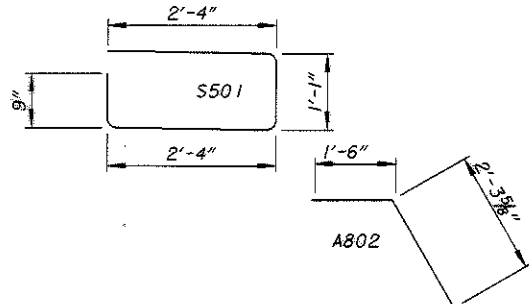
TRANSVERSE SECTIONS
BR. NO. MUS-22-2637
OVER BUCK CREEK

- MUS-719-0.00
- MUS-719-0.04
- MUS-555-11.28
- MUS-60-16.76
- MUS-22-0.00
- MUS-22-9.77
- MUS-220-0.00
- MUS-146-15.31

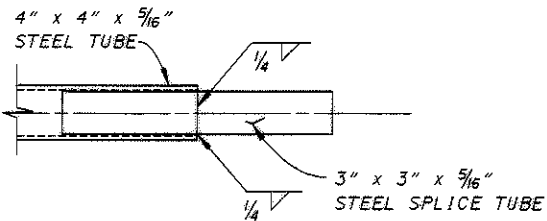
DESIGNED	RSD	CHECKED	TAG
DRAWN	RSD	REVISED	
REVIEWED	DTF	DATE	02-04-04
DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 5		
STRUCTURE FILE NUMBER	600908		

DECK EDGE REPAIR				
MARK	NUMBER REQUIRED	TYPE	LENGTH	WEIGHT
S501	52	BT.	6'-2"	334
S502	8	ST.	25'-3"	211
S801	16	ST.	25'-3"	1079
A802	18	BT.	3'-9"	180
TOTALS				1804

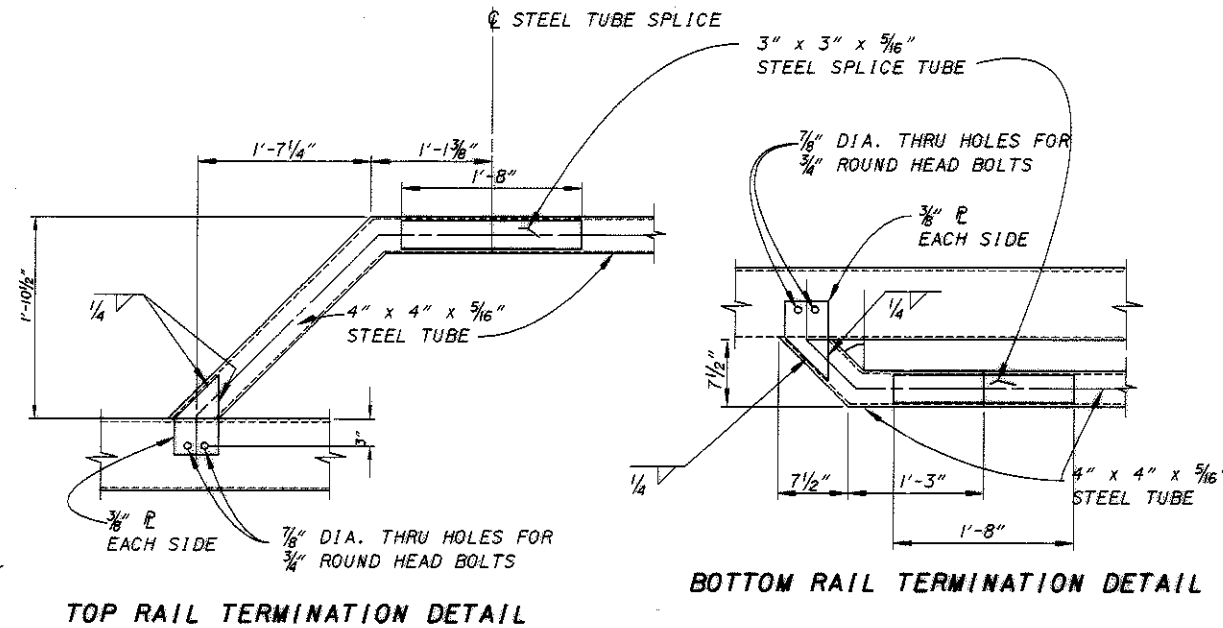
QUANTITIES CARRIED TO BRIDGE SUMMARY



BENDING DIAGRAM



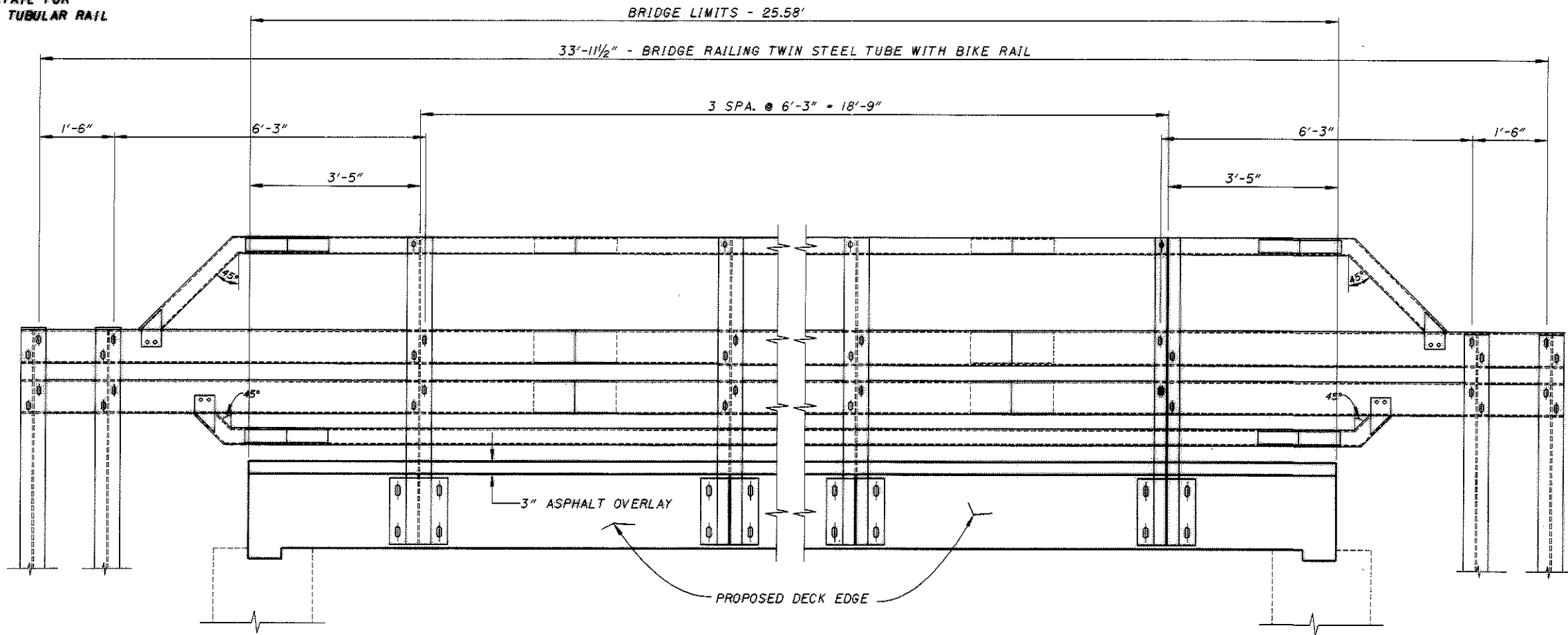
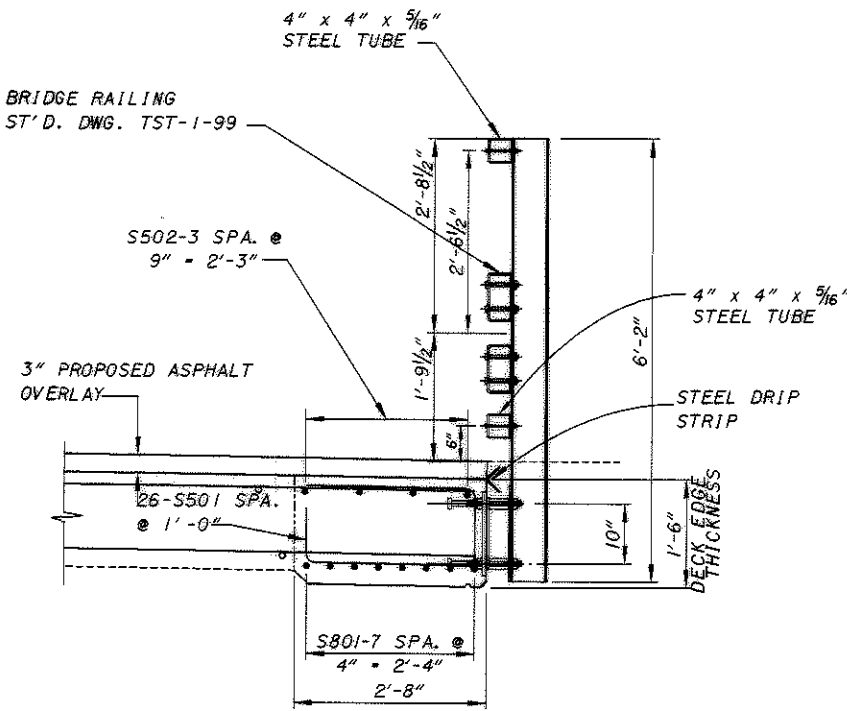
WELDING DETAIL FOR 4" x 4" x 5/16" TUBULAR RAIL



TOP RAIL TERMINATION DETAIL

BOTTOM RAIL TERMINATION DETAIL

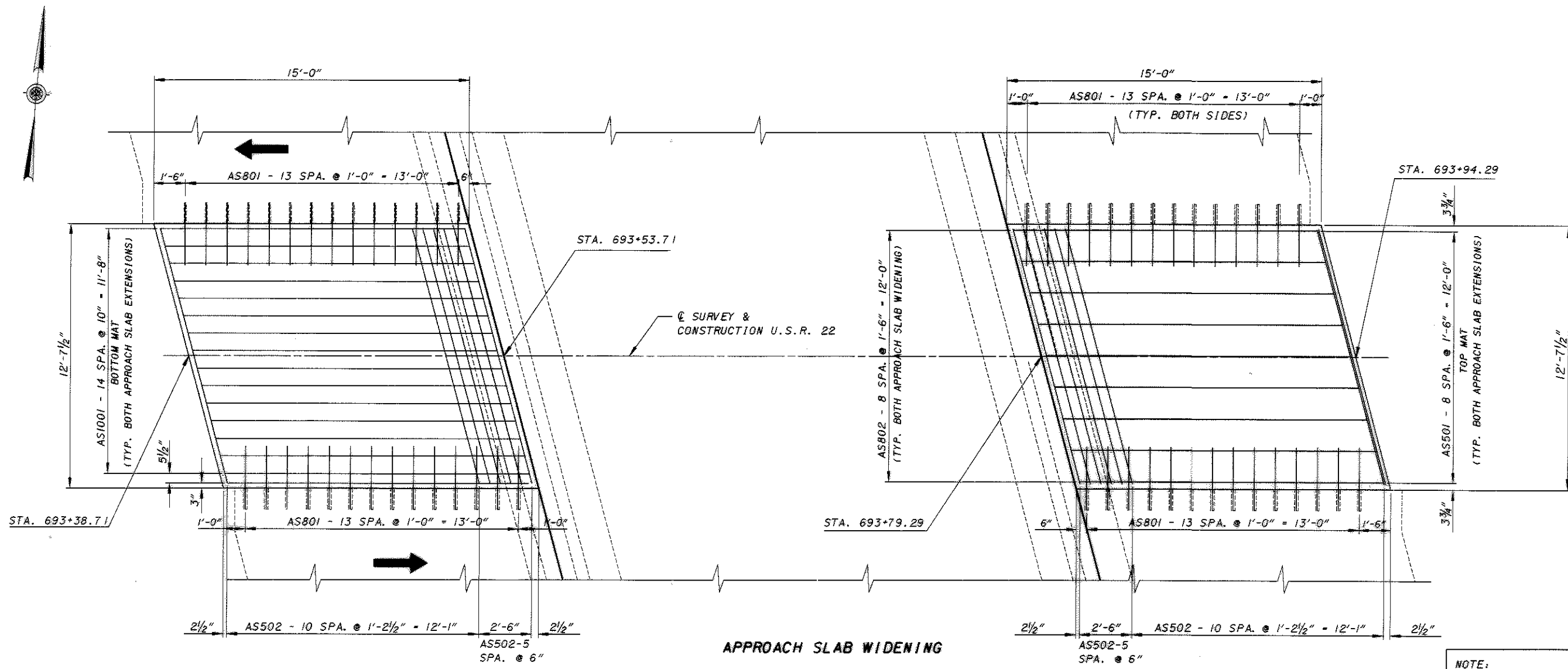
TWIN STEEL TUBE BRIDGE RAILING FOR DETAILS SEE ST'D. DWG. TST-1-99



DECK EDGE DETAILS

M02E0001.BSD SCALE J.33 P1D 19947 (1-30-04)

DESIGN AGENCY: OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 5
 DATE: 02-04-04
 REVIEWED: DTF
 DRAWN: RSD
 DESIGNED: RSD
 CHECKED: TAG
 STRUCTURE FILE NUMBER: 6000908
 BRIDGE RAIL DETAILS
 BR. NO. MUS-22-2637
 OVER BUCK CREEK
 MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-220-0.00
 MUS-146-15.31



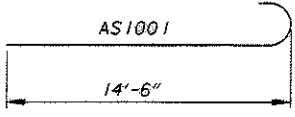
APPROACH SLAB WIDENING

NOTE:
ALL DOWEL HOLES SHALL
BE DRILLED 1'-0".

APPROACH SLAB RESTEEL

MARK	NUMBER REQ'D.	SHAPE	LENGTH	WEIGHT
AS501	18	ST.	14'-6"	27.2
AS502	32	ST.	12'-6"	41.7
AS801	56	ST.	3'-0"	44.9
AS1001	32	BT.	15'-11"	219.2
TOTALS				333.0

QUANTITIES SHOWN ARE FOR 2 APPROACH SLABS.
RE-STEEL SHOWN SHALL BE INCLUDED IN ITEM
526 FOR PAYMENT.



CALCULATIONS

ITEM 203 EXCAVATION
STA. 693+38.71 TO STA. 693+53.71
(12.625' x 15' x 2.5' + 27) = 17.53 CU. YD.
STA. 693+79.29 TO STA. 693+94.29
(12.625' x 15' x 2.5' + 27) = 17.53 CU. YD.
TOTAL 35.06 CU. YD.

ITEM 203 EMBANKMENT
STA. 693+38.71 TO STA. 693+53.71
(12.625' x 15' x 1' + 27) = 7.01 CU. YD.
STA. 693+79.29 TO STA. 693+94.29
(12.625' x 15' x 1' + 27) = 7.01 CU. YD.
TOTAL 14.02 CU. YD.

ITEM 204 SUBGRADE COMPACTION
STA. 693+38.71 TO STA. 693+53.71
(12.625' x 15' + 9) = 21.01 SQ. YD.
STA. 693+79.29 TO STA. 693+94.29
(12.625' x 15' + 9) = 21.04 SQ. YD.
TOTAL 42.08 SQ. YD.

ITEM 304 AGGREGATE BASE
STA. 693+38.71 TO STA. 693+53.71
(12.625' x 15' x .5' + 27) = 3.51 CU. YD.
STA. 693+79.29 TO STA. 693+94.29
(12.625' x 15' x .5' + 27) = 3.51 CU. YD.
TOTAL 7.02 CU. YD.

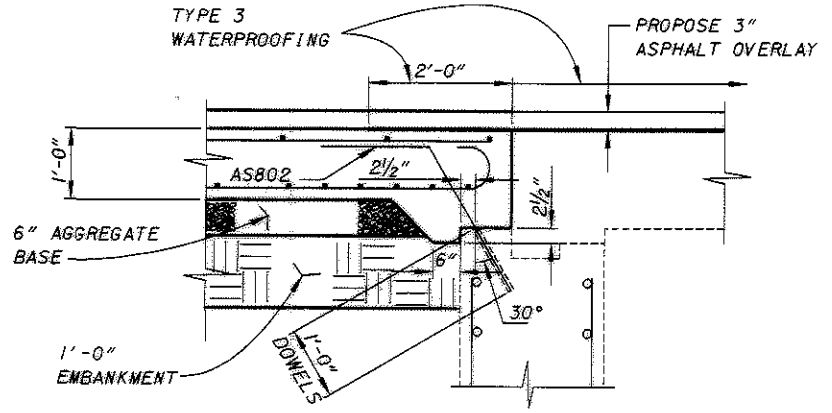
ITEM 407 TACK COAT FOR INTERMEDIATE COURSE
STA. 693+51.71 TO STA. 693+81.29
(80.58' x 29.58' + 9 x 0.05 GAL./SQ. YD.) = 13.24 GAL.

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE,
TYPE 2, PG64-22 (1 3/4" THICK)
STA. 693+51.71 TO STA. 693+81.29
(80.58' x 29.58' x .1458' + 27) = 12.87 CU. YD.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE,
TYPE 1, PG64-22 (1 1/4" THICK)
STA. 693+51.71 TO STA. 693+81.29
(80.58' x 29.58' x .1042' + 27) = 9.20 CU. YD.

ITEM 202 WEARING COURSE REMOVED
STA. 693+51.71 TO STA. 693+81.29
(80.58' x 29.58' + 9) = 264.84 SQ. YD.

ITEM 526 REINFORCED CONCRETE APPROACH SLAB
(T=12"), AS PER PLAN
THIS SHALL INCLUDE THE AS801 DOWEL BARS FOR
PAYMENT.



**SECTION AT Q
PROPOSED APPROACH SLAB WIDENING**

M022000LBAS SCALE 2.6667 RID 19947 (02-05-04)

ITEM 644 AUXILIARY PAVEMENT MARKING SUB-SUMMARY

644 THERMOPLASTIC

NOTATION	Y-ZONE	E-HOOD	DESCRIPTION	SLM	SIDE	24" TRANSVERSE LINES		STOP LINE 24"	12" CROSSWALK LINES			WORD ON PAVEMENT ONLY		SCHOOL SYMBOL MARKING		LANE ARROWS					RAILROAD SYMBOL MARKING	8" CHANNEL LINE FEET	ISLAND MARKING (YELLOW) SQ. FT.	24" DOTTED LINE		REMARKS		
						WHITE	YELLOW		WHITE	72"	96"	72'	96"	72'	96"	LT/TH	RT/TH	TURN						WH	YEL			
						FEET	FEET		FEET	FEET	EACH	EACH	EACH	EACH	EACH	EACH	EA.	EA.	EA.	EACH				FEET	FT.		FT.	
I	MUS	US 22	BUSH RUN RD.		RT			13																			PLACE AS DIRECTED	
			OLD TOWN RD.		LT			12																			PLACE AS DIRECTED	
			RITBERGER RD.		RT			17																			PLACE AS DIRECTED	
			CEMETARY RD.		LT			20																			PLACE AS DIRECTED	
			SR 345 ROAD		RT		255	15													1			50	48		SEE SHEET XX	
			OLD TOWN RD.		LT			10																			PLACE AS DIRECTED	
			OLD TOWN RD.		LT			21																			PLACE AS DIRECTED	
			LIMESTONE VALLEY RD.-CR. 652		RT			35																			PLACE AS DIRECTED	
			SCHOOL DRIVEWAY		RT			21																			PLACE AS DIRECTED	
			FOXFIRE DR.		RT			11																			PLACE AS DIRECTED	
			FOXFIRE DR.		LT			16																			PLACE AS DIRECTED	
			ROBERTS RD.		RT			10																			PLACE AS DIRECTED	
			LIMESTONE VALLEY RD.-CR 652		RT			24																			PLACE AS DIRECTED	
			THOMPSON RUN RD.		LT			10																			PLACE AS DIRECTED	
			AT SR 93					66																			SEE SHEET XX	
			CHADWICK DR.		LT			20																			PLACE AS DIRECTED	
			NOLAN ROAD (TWP. RD. 616)		LT			20																			PLACE AS DIRECTED	
			ACCESS ROAD		RT			20																			PLACE AS DIRECTED	
			BROADVUE CIRCLE (WEST)		LT			12																			PLACE AS DIRECTED	
			BROADVUE CIRCLE (EAST)		LT			12																			PLACE AS DIRECTED	
			MC FARLAND		LT			12																			PLACE AS DIRECTED	
			ON US 22 @		☉			70																			PLACE AS DIRECTED	
			ON US 22 BEFORE PINKERTON LN					35																			PLACE AS DIRECTED	
			PINKERTON LANE		LT			20																			SEE SHEET XX	
			ON US 22 AFTER PINKERTON LN					35																			SEE SHEET XX	
			GREENHOUSE ROAD (TWP. RD. 146)		RT			20																			SEE SHEET XX	
			SHERWOOD		LT			20																			PLACE AS DIRECTED	
			ARCADIA AVENUE		LT			12																			PLACE AS DIRECTED	
			TWP. RD. 261		RT			12																			PLACE AS DIRECTED	
			SOUTH AVE.		RT			13																			PLACE AS DIRECTED	
			MERIAM ST.		LT			25																			PLACE AS DIRECTED	
			MERIAM ST.		RT			16																			PLACE AS DIRECTED	
			ON 22 BEFORE MAIN					32			108																PLACE AS DIRECTED	
			E. MAIN ST.		RT			14			90																PLACE AS DIRECTED	
			E. MAIN ST.		LT			15			70																PLACE AS DIRECTED	
			ON 22 AFTER MAIN					32			108																PLACE AS DIRECTED	
			KING ST.		RT			10																			PLACE AS DIRECTED	
			KING ST.		LT			13																			PLACE AS DIRECTED	
			BERKLEY ST.		LT			10																			PLACE AS DIRECTED	
I	MUS	US 22	TOTALS CARRIED TO NEXT SHEET					290			801																	PLACE AS DIRECTED

m022001.tas 11-06-03

AUXILIARY PAVEMENT MARKING

MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-220-0.00
 MUS-146-15.31

32
73

ITEM 644 AUXILIARY PAVEMENT MARKING SUB-SUMMARY

644 THERMOPLASTIC

LOCATION	COUNTY	THOR	DESCRIPTION	SLM	SIDE	24" TRANSVERSE LINES		STOP LINE	12" CROSSWALK LINES		WORD ON PAVEMENT ONLY		SCHOOL SYMBOL MARKING		LANE ARROWS					RAILROAD SYMBOL MARKING	8" CHANNEL LINE	ISLAND MARKING (YELLOW)	24" DOTTED LINE		REMARKS					
						WHITE	YELLOW	24"	WHITE	72"	96"	72"	96"	LT/TH	RT/TH	LT	RT	TH	WH				YEL							
						FEET	FEET	FEET	FEET	EACH	EACH	EACH	EACH	EACH	EACH	EA.	EA.	EA.	EACH				FEET	SQ. FT.		FT.	FT.			
1	MUS	US 22	TOTALS CARRIED FROM PREVIOUS SHEET				290	801	376			10							1482	48										
			BEFORE LASALLE					32																	PLACE AS DIRECTED					
			LASALLE RD.		RT			14																		PLACE AS DIRECTED				
			LASALLE RD.		LT			11																		PLACE AS DIRECTED				
			AFTER LASALLE					32																		PLACE AS DIRECTED				
			ON 22 BEFORE ZANE PLAZA					32																		PLACE AS DIRECTED				
			EXIT FROM ZANE PLAZA		LT			41																		PLACE AS DIRECTED				
			ENTRANCE TO ZANE PLAZA		LT																					PLACE AS DIRECTED				
			ON 22 AFTER ZANE PLAZA					32																		PLACE AS DIRECTED				
			CLAY ST.		LT			15																		PLACE AS DIRECTED				
			SEE LOCATION 2																							PLACE AS DIRECTED				
			ON 22 @ SR 93				56					1						126	57							PLACE AS DIRECTED				
			S. PLEASANT GROVE RD.		RT		185	30				1						80	57							PLACE AS DIRECTED				
			BRYAN DR.		RT			15																		PLACE AS DIRECTED				
			BROOKSIDE DR.		RT			18																		PLACE AS DIRECTED				
			INDUSTRIAL BLVD.		RT			20																		PLACE AS DIRECTED				
			DOZER DR.		LT			25																		PLACE AS DIRECTED				
			OLD WHEELING RD		RT			20																		PLACE AS DIRECTED				
			JACKSON RD.		LT			20																		PLACE AS DIRECTED				
			HICKS RD.		RT			12																		PLACE AS DIRECTED				
			C.R. 52		LT			30																		PLACE AS DIRECTED				
			AIRPORT RD.		RT			28																		PLACE AS DIRECTED				
			CINDERPIT RD.		RT			20																		PLACE AS DIRECTED				
			CINDERPIT RD.		RT			21																		PLACE AS DIRECTED				
			BALD HILL RD.		LT			23																		PLACE AS DIRECTED				
			BRANCH RD.		RT			19																		PLACE AS DIRECTED				
			BRIDGEVILLE RD.		LT			21																		PLACE AS DIRECTED				
			DEERFIELD RD.		LT			22																		PLACE AS DIRECTED				
			SPRY RD.		RT			43																		PLACE AS DIRECTED				
			BRIDGEFIELD RD.		LT			34																		PLACE AS DIRECTED				
			ROAD		LT			17																		PLACE AS DIRECTED				
			URBAN HILL RD.		RT			24																		PLACE AS DIRECTED				
			ARCHHILL RD.		LT			24																		PLACE AS DIRECTED				
			RILEY RD.		RT			19																		PLACE AS DIRECTED				
			ZANE GREY RD.		RT			21																		PLACE AS DIRECTED				
			NORWICH VALLEY RD.		LT			48																		PLACE AS DIRECTED				
			BRICK RD.		LT			28																		PLACE AS DIRECTED				
			ROAD		RT			18																		PLACE AS DIRECTED				
			NORWICH DR.		LT			20																		PLACE AS DIRECTED				
			SUNSET DR.		RT			20																		PLACE AS DIRECTED				
			SUNDALE RD.		LT			20																		PLACE AS DIRECTED				
			MOOSE EYE RD.		LT			20																		PLACE AS DIRECTED				
			S. MOOSE EYE RD.		RT			20																		PLACE AS DIRECTED				
1	MUS	US 22	TOTALS CARRIED TO NEXT SHEET				531	1730	376			12														14 3 7	1688	162		

m022002.tas 11-06-03

AUXILIARY PAVEMENT MARKING

MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-22D-0.00
 MUS-146-15.31

33
73

CALCULATED
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ITEM 644 AUXILIARY PAVEMENT MARKING SUB-SUMMARY

644 THERMOPLASTIC

LOCATION	COUNTY	ROUTE	DESCRIPTION	SLM	SIDE	24" TRANSVERSE LINES		STOP LINE	12" CROSSWALK LINES		WORD ON PAVEMENT ONLY ONLY		SCHOOL SYMBOL MARKING		LANE ARROWS					RAILROAD SYMBOL MARKING	8" CHANNEL LINE	ISLAND MARKING (YELLOW)	24" DOTTED LINE		REMARKS
						WHITE	YELLOW	24"	WHITE	72"	96"	72"	96"	LT/TH	RT/TH	LT	RT	TH	WH				YEL		
						FEET	FEET	FEET	FEET	EACH	EACH	EACH	EACH	EACH	EACH	EA.	EA.	EA.	EACH				FEET	SO. FT.	
1	MUS	US 22	TOTALS CARRIED FROM PREVIOUS SHEET				531	1730	376			12									1688	162			
			NORWICH DR.		LT			20																	PLACE AS DIRECTED
			N. HOMESTEAD DR.		RT			14																	PLACE AS DIRECTED
			FOX CREEK RD.		LT			14																	PLACE AS DIRECTED
			MAPLE BROOK RD.		LT			14																	PLACE AS DIRECTED
			RIX MILLS RD.		RT																				PLACE AS DIRECTED
			SHADYSIDE DR.		LT			23																	PLACE AS DIRECTED
			GARFIELD AVE.		LT			11	52																PLACE AS DIRECTED
			ON US 22 BEFORE SR 83					26	104	1						2	2					225			PLACE AS DIRECTED
			SR. 83		LT			18	92																PLACE AS DIRECTED
			SR. 83		RT			32																	PLACE AS DIRECTED
			ON US 22 AFTER SR 83					24		1						2	2					185			PLACE AS DIRECTED
			ALLEY		LT			10																	PLACE AS DIRECTED
			ALLEY		LT			10																	PLACE AS DIRECTED
			ON US 22 AT S.L.M. 26.97										1												PLACE AS DIRECTED
			ALLEY		RT			10																	PLACE AS DIRECTED
			COMIN ST.		LT			10																	PLACE AS DIRECTED
			ON US 22 BEFORE STORMONT					24																	PLACE AS DIRECTED
			STORMONT AVE.		LT			13	60																PLACE AS DIRECTED
			ON US 22 AFTER STORMONT					26	114																PLACE AS DIRECTED
			MAPLE AVE.		RT			9	32																PLACE AS DIRECTED
			ALLEY		LT			8	30																PLACE AS DIRECTED
			ALLEY		RT			7	32																PLACE AS DIRECTED
			ALLEY		LT			10	60																PLACE AS DIRECTED
			ON US 22 AT S.L.M. 27.15										1												PLACE AS DIRECTED
			EXIT FROM COLLEGE		LT			10	36																PLACE AS DIRECTED
			DEPOT ST.		RT			10	44																PLACE AS DIRECTED
			ENTRANCE TO COLLEGE		LT				38																PLACE AS DIRECTED
			ON US 22 BEFORE LAYTON					25	106																PLACE AS DIRECTED
			LAYTON DR.		LT			10	40																PLACE AS DIRECTED
			LAYTON DR.		RT			10	44																PLACE AS DIRECTED
			ON US 22 AFTER LAYTON					24	104																PLACE AS DIRECTED
			ALLEY		LT			9	36																PLACE AS DIRECTED
			ALLEY		RT			8	32																PLACE AS DIRECTED
			ON US 22 BEFORE LIBERTY					25	108																PLACE AS DIRECTED
			LIBERTY ST.		LT			10	40																PLACE AS DIRECTED
			LIBERTY ST.		RT			10	40																PLACE AS DIRECTED
			ON US 22 AFTER LIBERTY					25	100																PLACE AS DIRECTED
			ALLEY		LT			7	28																PLACE AS DIRECTED
			ALLEY		RT			7	30																PLACE AS DIRECTED
			FRANKLIN ST.		LT			8	32																PLACE AS DIRECTED
			FRANKLIN ST.		RT			12	48																PLACE AS DIRECTED
1	MUS	US 22	TOTALS CARRIED TO NEXT SHEET				531	2273	1858	2	12	2			4	18	3	7			2098	162			

m022003.tas 11-06-03

AUXILIARY PAVEMENT MARKING

MUS-719-0-00
 MUS-719-0-04
 MUS-555-II-28
 MUS-60-16-76
 MUS-22-0-00
 MUS-22-9-77
 MUS-22D-0-00
 MUS-146-15-31

34
73

CALCULATED
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ITEM 644 AUXILIARY PAVEMENT MARKING SUB-SUMMARY

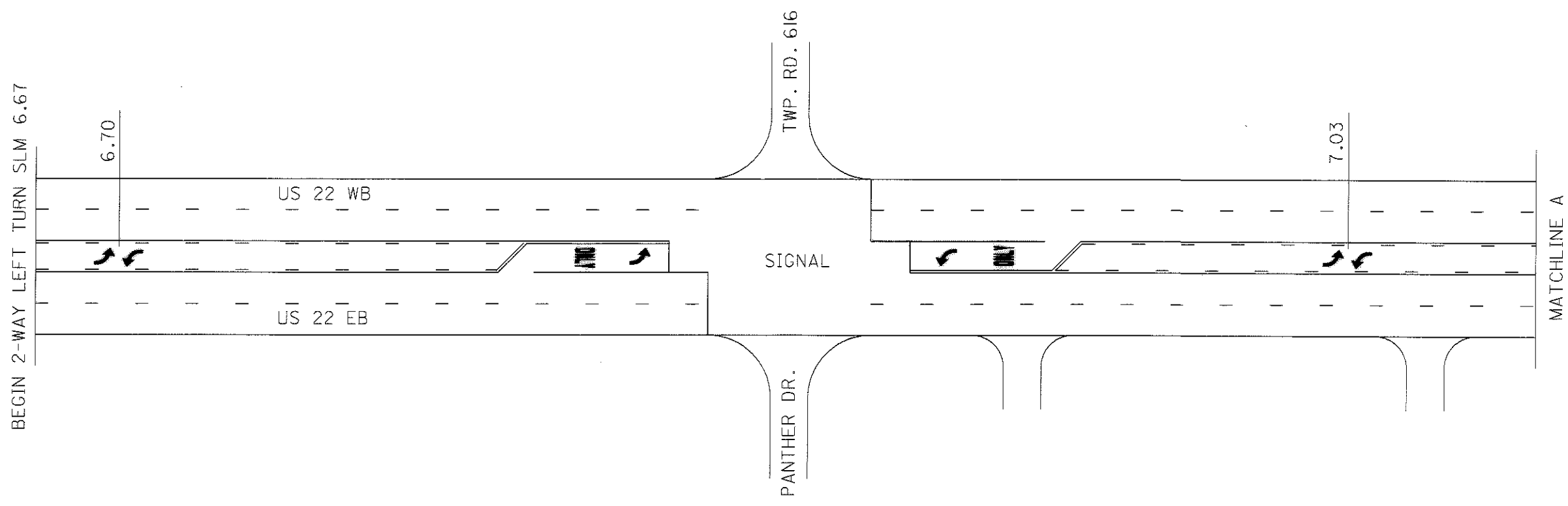
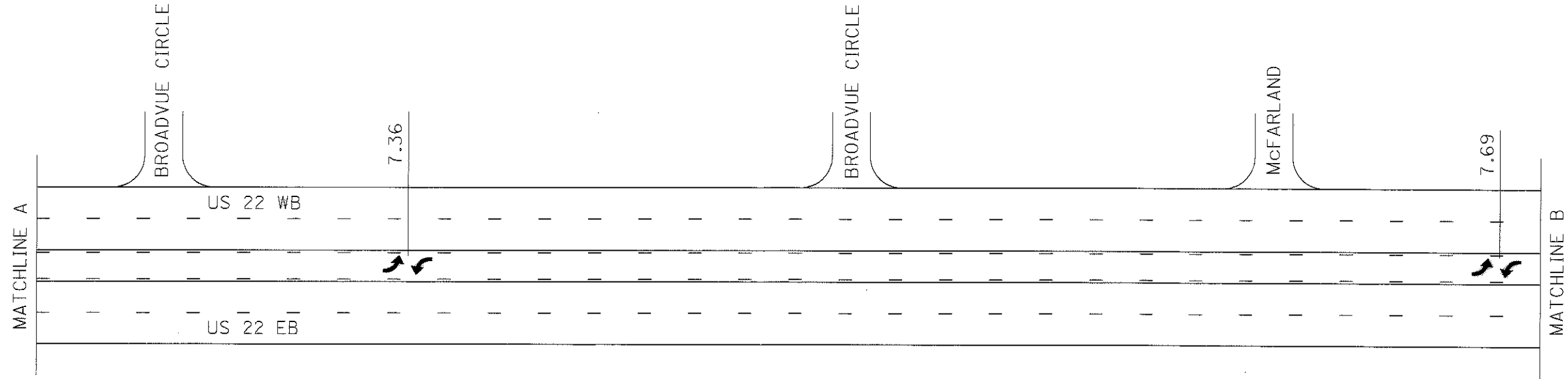
644 THERMOPLASTIC

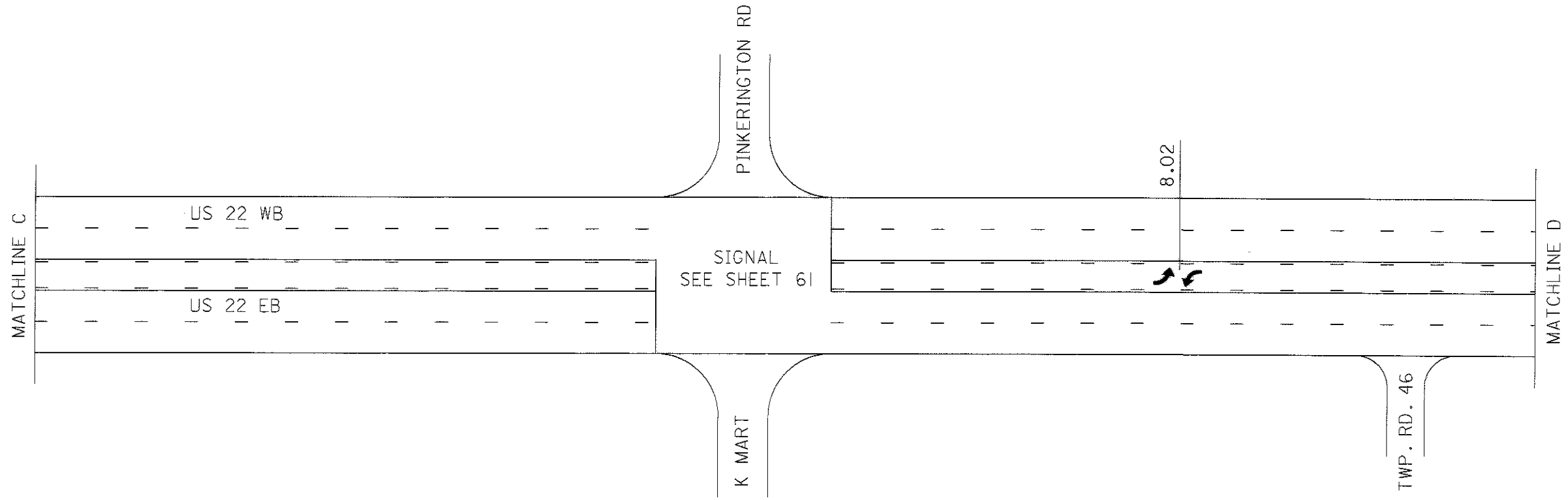
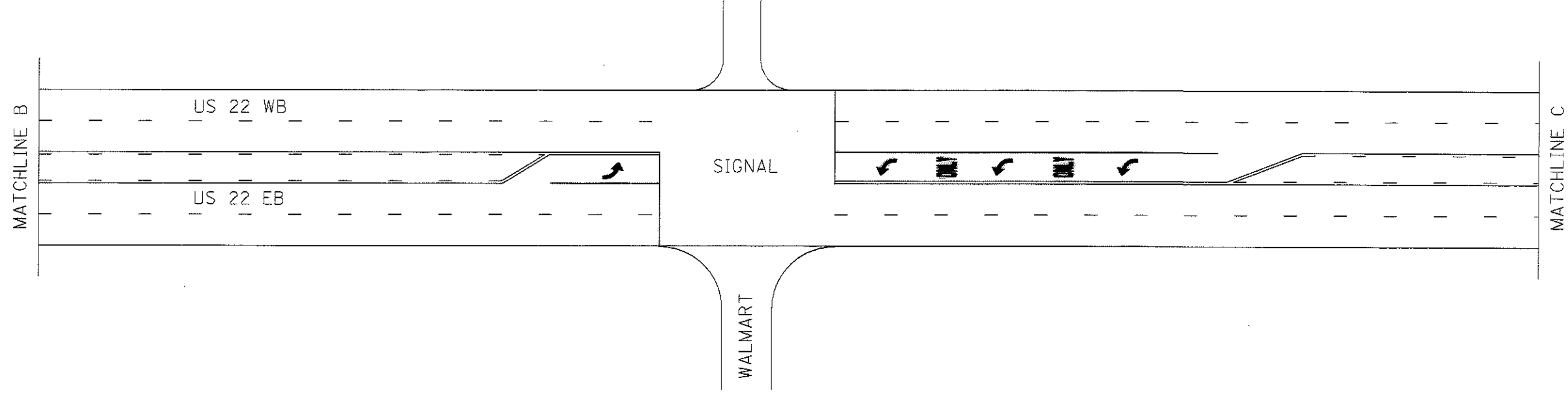
LOCATION	LOCALITY	THOROUGHFARE	DESCRIPTION	SLM	SIDE	24" TRANSVERSE LINES		STOP LINE	12" CROSSWALK LINES		WORD ON PAVEMENT ONLY ONLY		SCHOOL SYMBOL MARKING		LANE ARROWS					RAILROAD SYMBOL MARKING	8" CHANNEL LINE	ISLAND MARKING (YELLOW)	24" DOTTED LINE		REMARKS
						WHITE	YELLOW	24"	WHITE	72"	96"	72"	96"	COMBINATION		TURN			WH				YEL		
						FEET	FEET	FEET	FEET	EACH	EACH	EACH	EACH	EACH	EACH	EA.	EA.	EA.	EACH				FEET	SQ. FT.	
1	MUS	US 22	TOTALS CARRIED FROM PREVIOUS SHEET				531	2273	1858	2	12	2			4	18	3	7		2098	162				
			ALLEY		LT			7	28															PLACE AS DIRECTED	
			ALLEY		RT			8	32															PLACE AS DIRECTED	
			ALLEY		LT			5	18															PLACE AS DIRECTED	
			DELAWARE ST.		RT			10	54															PLACE AS DIRECTED	
			ON 22 AFTER DELAWARE			308	452																	PLACE AS DIRECTED	
			ROAD		LT			10																PLACE AS DIRECTED	
			ALLEY		RT																			PLACE AS DIRECTED	
1	MUS	US 22	TOTALS			308	983	2313	1990	2	12	2			4	18	3	7		2098	162				
			TOTALS																						
2	MUS		ZANESVILLE																						
			FEDERAL AVE.		LT			13	56															PLACE AS DIRECTED	
			ARCH ST.		LT			20	92															PLACE AS DIRECTED	
			ON US 22 BEFORE PINE					35		2					2				1	100				PLACE AS DIRECTED	
			PINE ST.		LT			23	226															PLACE AS DIRECTED	
			ON US 22 AFTER PINE					35											1					PLACE AS DIRECTED	
			ALFRED ST.		LT			17	100															PLACE AS DIRECTED	
			GROVE ST.		LT			30	130															PLACE AS DIRECTED	
			ARTHUR ST.		RT			25	130															PLACE AS DIRECTED	
			MERRICK AVE.		LT				66															PLACE AS DIRECTED	
			ECHO AVE.		LT				80															PLACE AS DIRECTED	
			SMITHFIELD AVE.		LT				74															PLACE AS DIRECTED	
			ON US 22 BEFORE EPPLEY					26		1					2				1	100				PLACE AS DIRECTED	
			EPPLEY AVE.		LT				80															PLACE AS DIRECTED	
			ON US 22 AFTER EPPLEY					15																PLACE AS DIRECTED	
			SEBORN AVE.		LT				88															PLACE AS DIRECTED	
			SPENCE AVE.		LT				30															PLACE AS DIRECTED	
			WOODLAWN AVE.		RT			21	144															PLACE AS DIRECTED	
			ALLEY		RT			10																PLACE AS DIRECTED	
			ALLEY		LT			10																PLACE AS DIRECTED	
			ALLEY		LT			10																PLACE AS DIRECTED	
			WELLER AVE.		LT			10																PLACE AS DIRECTED	
			ON US 22 BEFORE PUTNAM					20	78															PLACE AS DIRECTED	
2	MUS	US 22	TOTALS					320	1374	3					4				2	200					

m022004.tas 11-06-03

AUXILIARY PAVEMENT MARKING

MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-22D-0.00
 MUS-146-15.31



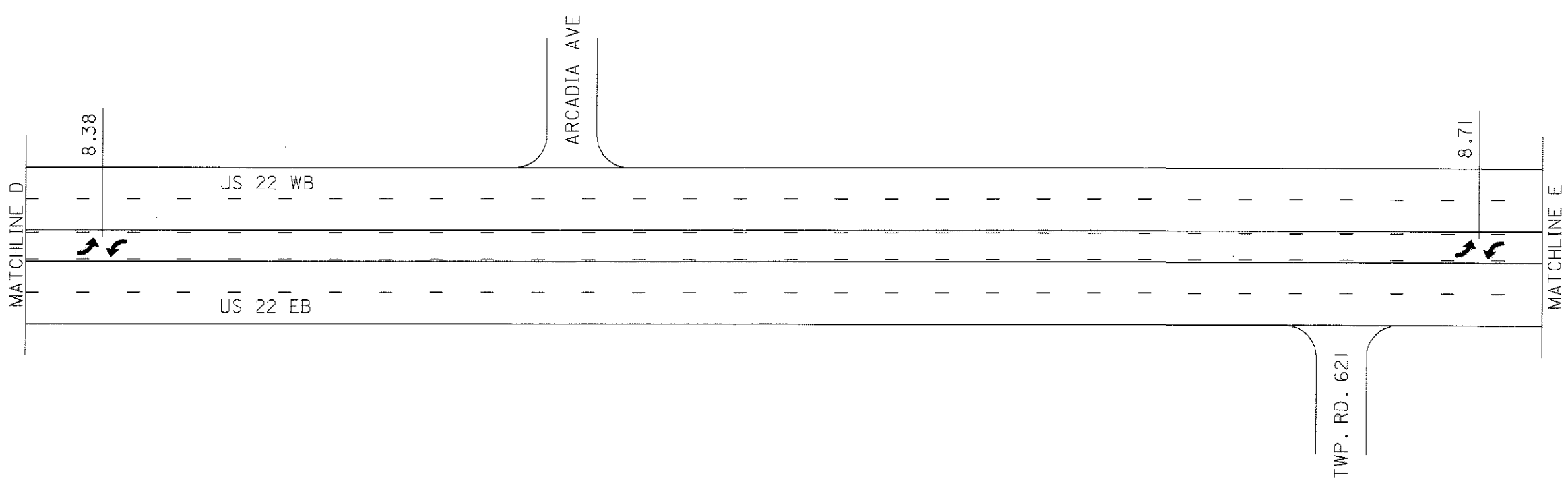


CALCULATED
CHECKED

HORIZONTAL
SCALE: IN FEET

PLAN SHEET LOCATION I

- MUS-22-0-00
- MUS-22-9-77
- MUS-22D-0-00
- MUS-146-15-31
- MUS-719-0-00
- MUS-719-0-04
- MUS-555-11-28
- MUS-60-16-76



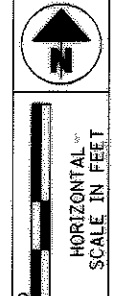
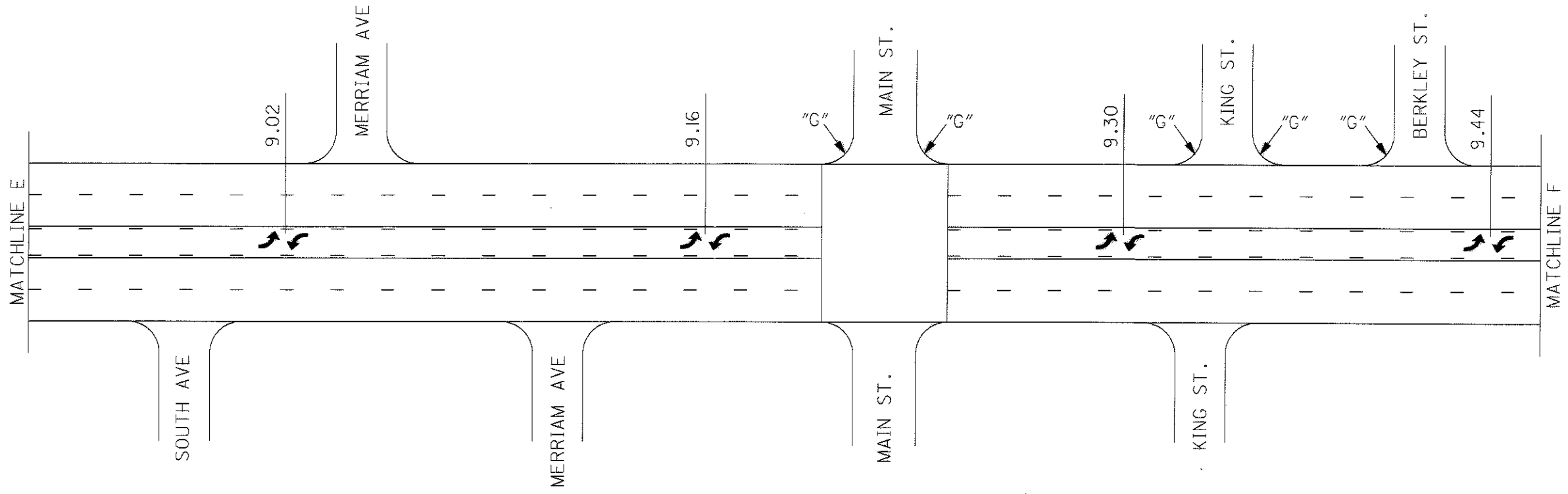
THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:
 TYPE A RAMPS = 108 SQ.FT. , 29 FT. CURB
 TYPE D RAMPS = 60 SQ.FT. , 15 FT. CURB
 TYPE E RAMPS = 54 SQ.FT. , 14 FT. CURB
 TYPE G RAMPS = 24 SQ.FT. , 14 FT. CURB

CURB RAMP, TYPE "G" = 5

TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.

LOCATION I

ITEM 202 CURB REMOVED - 70 FT
 ITEM 202 WALK REMOVED - 120 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN - 120 SQ.FT.
 QUANTITIES CARRIED TO SHEET 55.



CALCULATED

CHECKED

PLAN SHEET LOCATION I

MUS-22-0-00
 MUS-22-9-77
 MUS-22D-0-00
 MUS-146-15-31

MUS-719-0-00
 MUS-719-0-04
 MUS-555-11-28
 MUS-60-16-76



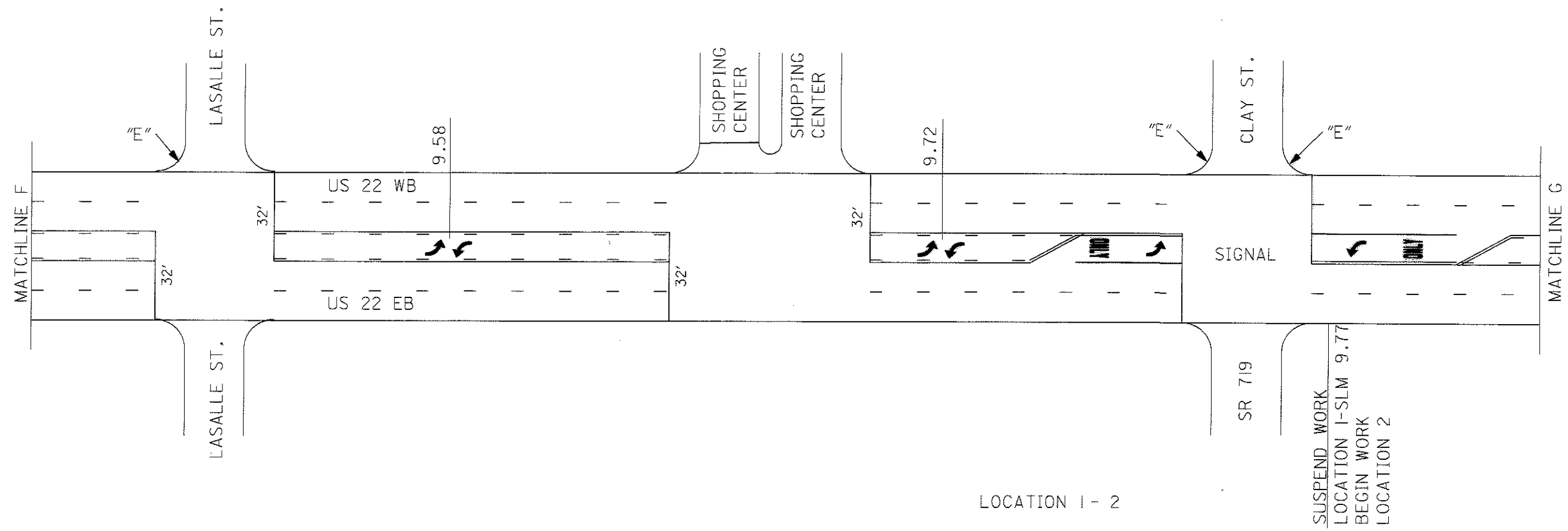
HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

PLAN SHEET LOCATION 1 & 2

MUS-22-0-00
MUS-22-9-77
MUS-22D-0-00
MUS-146-15-31
MUS-719-0-00
MUS-719-0-04
MUS-555-11-28
MUS-60-16-76

39
73



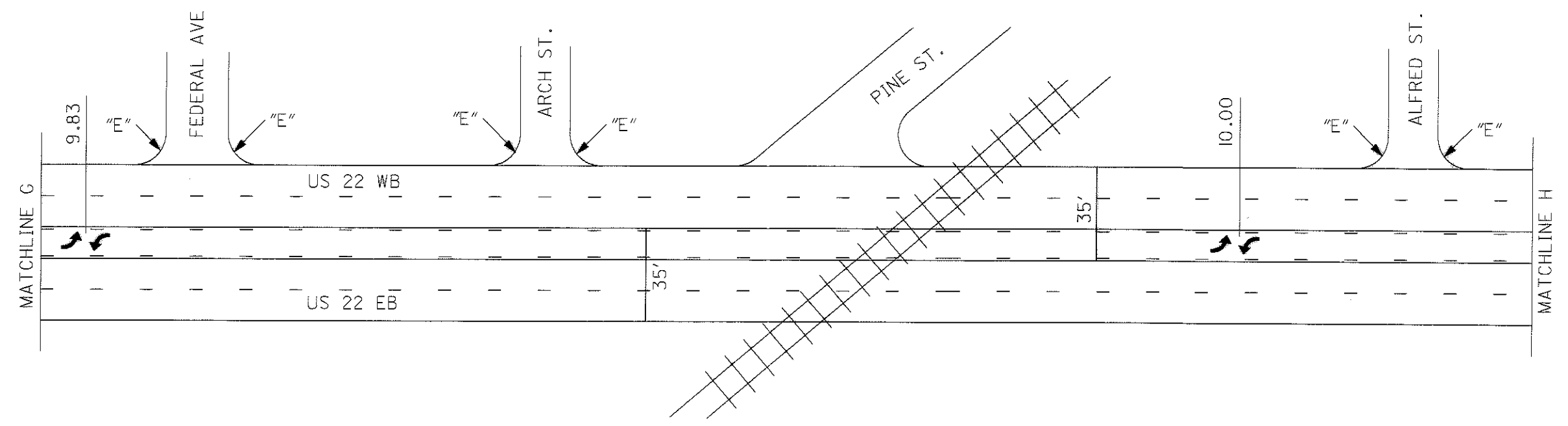
LOCATION 1 - 2

THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:
 TYPE A RAMPS = 108 SQ.FT. , 29 FT. CURB
 TYPE D RAMPS = 60 SQ.FT. , 15 FT. CURB
 TYPE E RAMPS = 54 SQ.FT. , 14 FT. CURB
 TYPE G RAMPS = 24 SQ.FT. , 14 FT. CURB

CURB RAMP, TYPE "E" LOCATION 1 = 3
 CURB RAMP, TYPE "E" LOCATION 2 = 6

TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.

ITEM 202 CURB REMOVED LOCATION 1 = 112 FT
 ITEM 202 CURB REMOVED LOCATION 2 = 84 FT
 ITEM 202 WALK REMOVED LOCATION 1 = 282 SQ.FT.
 ITEM 202 WALK REMOVED LOCATION 2 = 324 SQ.FT.
 ITEM 202 CURB RAMP, AS PER PLAN LOCATION 1 = 282 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN LOCATION 2 = 324 SQ.FT.
 LOCATION 1 QUANTITIES CARRIED TO SHEET 55.
 LOCATION 2 QUANTITIES CARRIED TO SHEET 45.



M22pm4.dgn

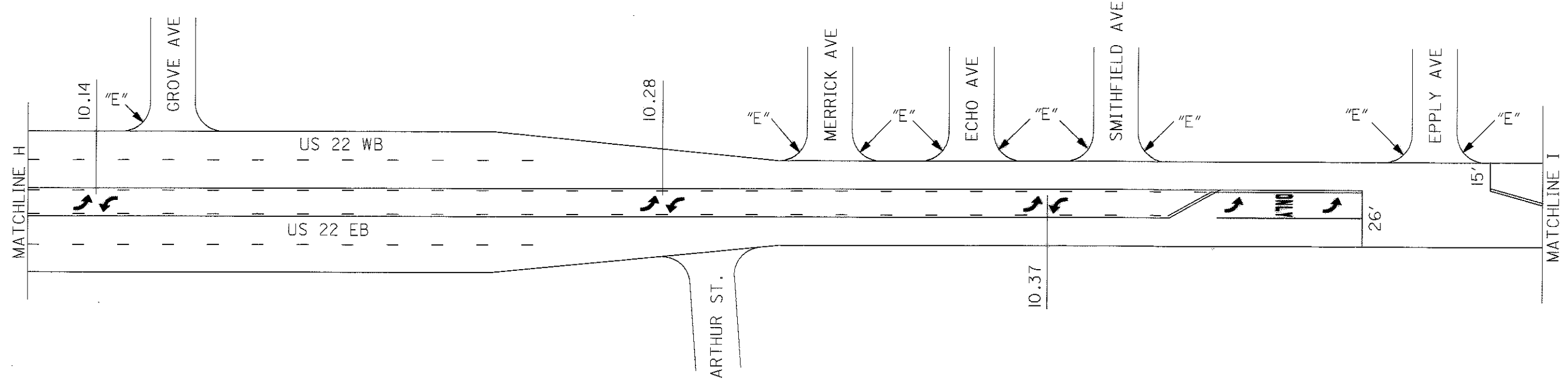


HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

PLAN SHEET LOCATION 2

MUS-22-0-0.00
MUS-22-9-9.77
MUS-22D-0-0.00
MUS-146-15.31
MUS-719-0-0.00
MUS-719-0-0.04
MUS-555-11.28
MUS-60-16.76



THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:
 TYPE A RAMPS = 108 SQ.FT. , 29 FT. CURB
 TYPE D RAMPS = 60 SQ.FT. , 15 FT. CURB
 TYPE E RAMPS = 54 SQ.FT. , 14 FT. CURB
 TYPE G RAMPS = 24 SQ.FT. , 14 FT. CURB

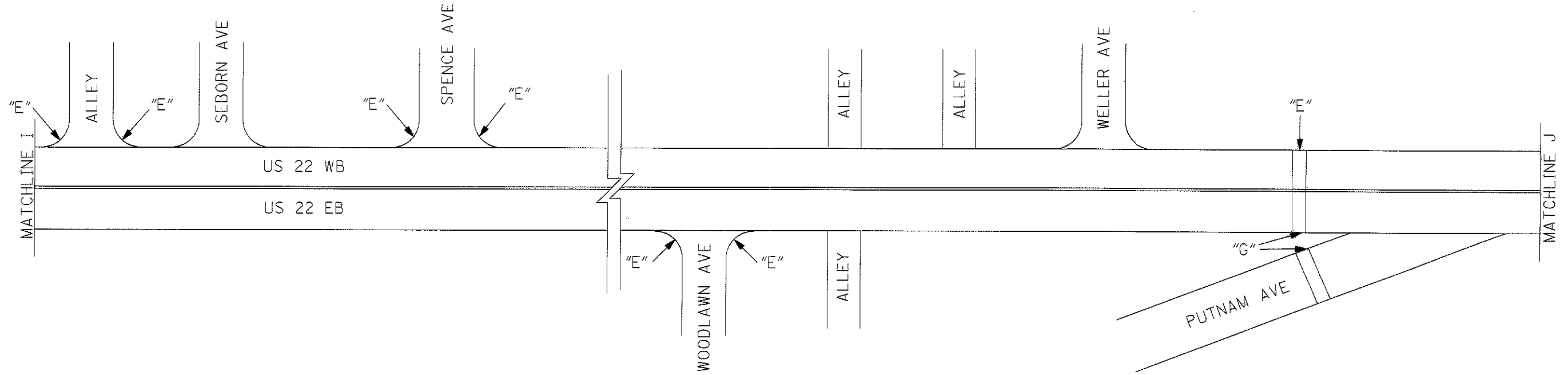
CURB RAMP, TYPE "E" = 16
 CURB RAMP, TYPE "G" = 2

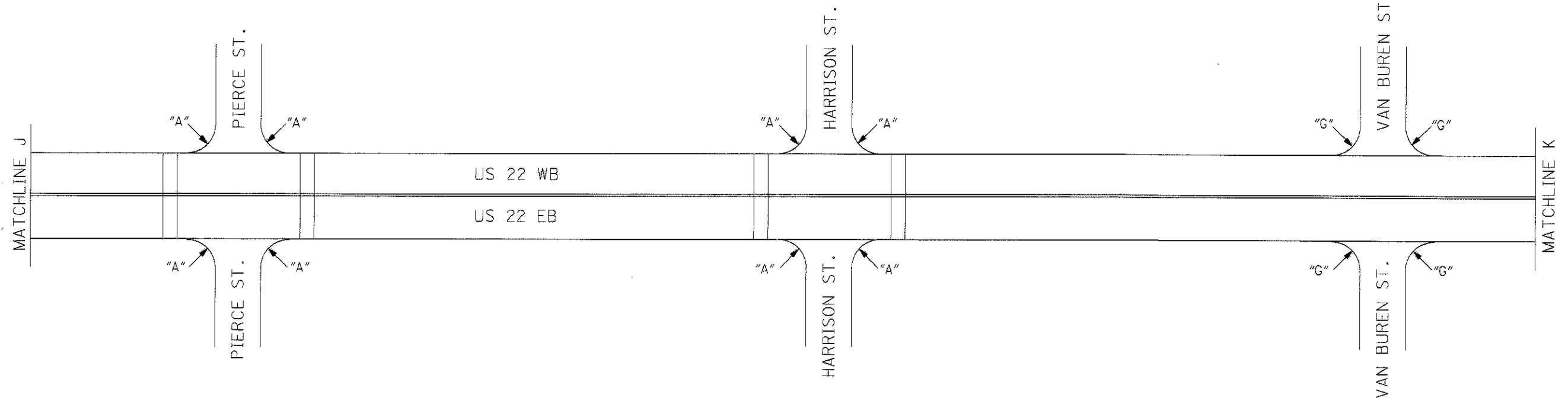
TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.

LOCATION 2

ITEM 202 CURB REMOVED - 252 FT
 ITEM 202 WALK REMOVED - 912 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN - 912 SQ.FT.

QUANTITIES CARRIED TO SHEET 45.





THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:
 TYPE A RAMPS = 108 SQ.FT. , 29 FT. CURB
 TYPE D RAMPS = 60 SQ.FT. , 15 FT. CURB
 TYPE E RAMPS = 54 SQ.FT. , 14 FT. CURB
 TYPE G RAMPS = 24 SQ.FT. , 14 FT. CURB

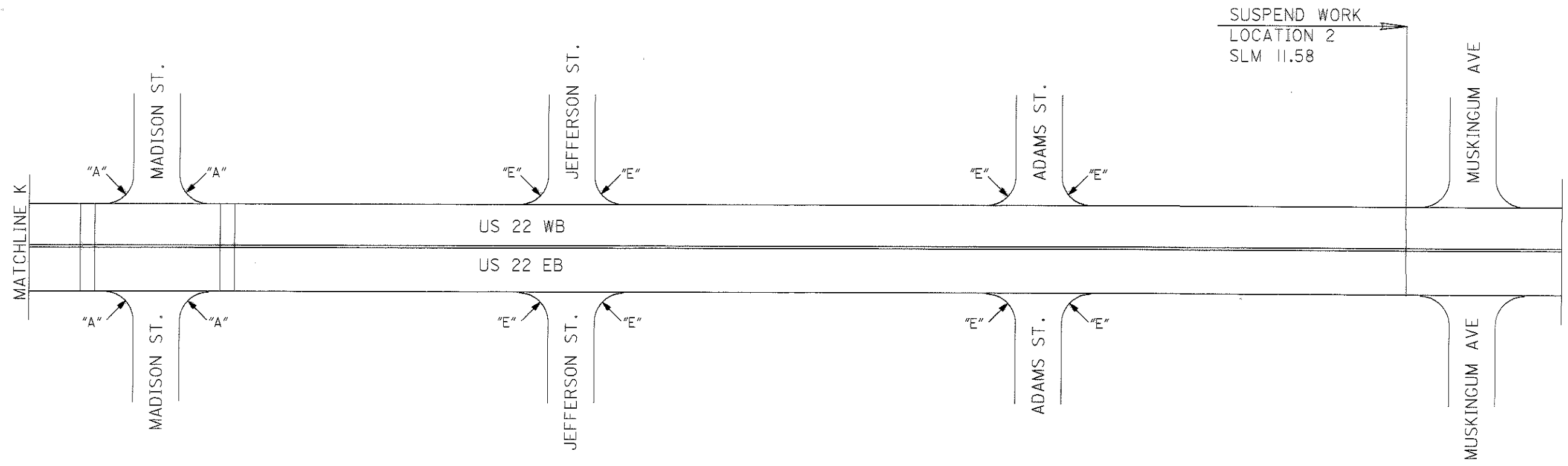
CURB RAMP, TYPE "A" = 12
 CURB RAMP, TYPE "E" = 8
 CURB RAMP, TYPE "G" = 4

TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.

LOCATION 2

ITEM 202 CURB REMOVED - 516 FT
 ITEM 202 WALK REMOVED - 1824 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN - 1824 SQ.FT.

QUANTITIES CARRIED TO SHEET 45.



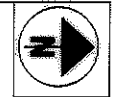
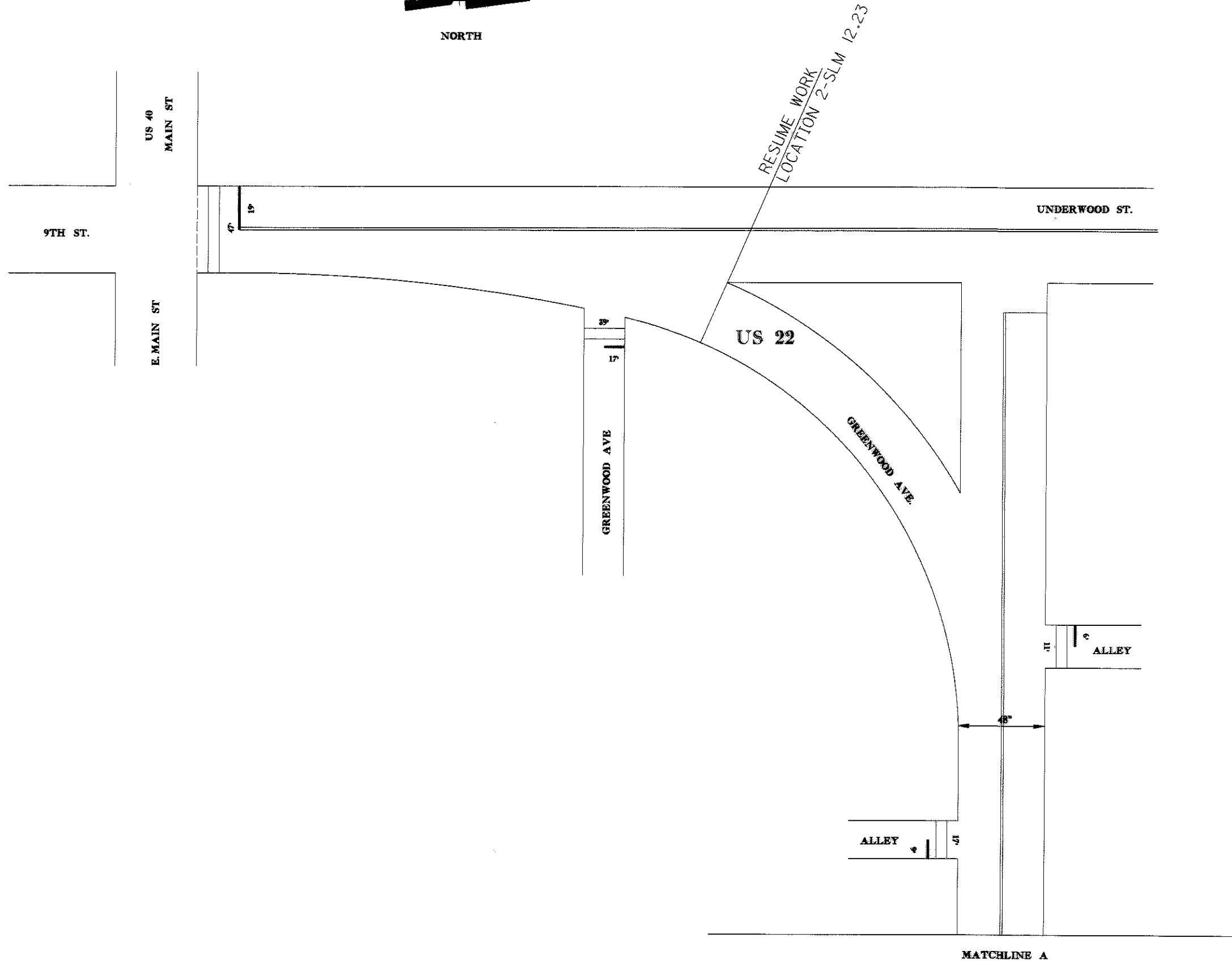
CALCULATED
CHECKED

PLAN SHEET LOCATION 2

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31

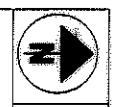
222pm16.dgn



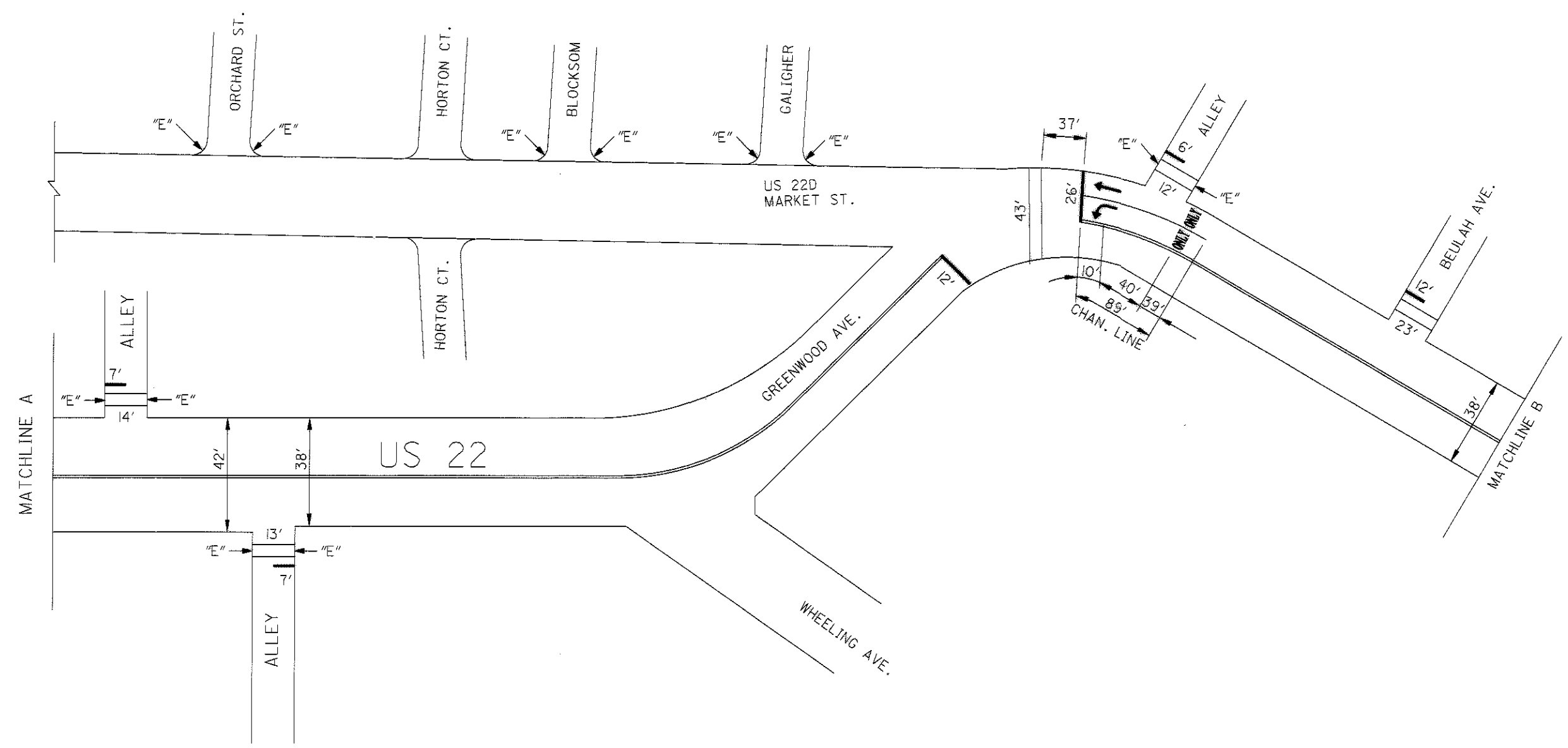
CALCULATED
CHECKED

PLAN SHEET LOCATION 2

MUS-22-0-00	MUS-719-0-00
MUS-22-9-77	MUS-719-0-04
MUS-22D-0-00	MUS-555-11.28
MUS-146-15.31	MUS-60-16.76



NORTH



THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:
 TYPE A RAMPS = 108 SQ.FT. , 29 FT. CURB
 TYPE D RAMPS = 60 SQ.FT. , 15 FT. CURB
 TYPE E RAMPS = 54 SQ.FT. , 14 FT. CURB
 TYPE G RAMPS = 24 SQ.FT. , 14 FT. CURB

CURB RAMP, TYPE "E" = 12
 QUANTITIES CARRIED TO SHEET 45.

LOCATION 2

ITEM 202 CURB REMOVED - 168 FT
 ITEM 202 WALK REMOVED - 648 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN - 648 SQ.FT.

TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.

CALCULATED
CHECKED

PLAN SHEET LOCATION 2

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76
MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31

THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:
 TYPE A RAMPS = 108 SQ.FT. , 29 FT. CURB
 TYPE D RAMPS = 60 SQ.FT. , 15 FT. CURB
 TYPE E RAMPS = 54 SQ.FT. , 14 FT. CURB
 TYPE G RAMPS = 24 SQ.FT. , 14 FT. CURB

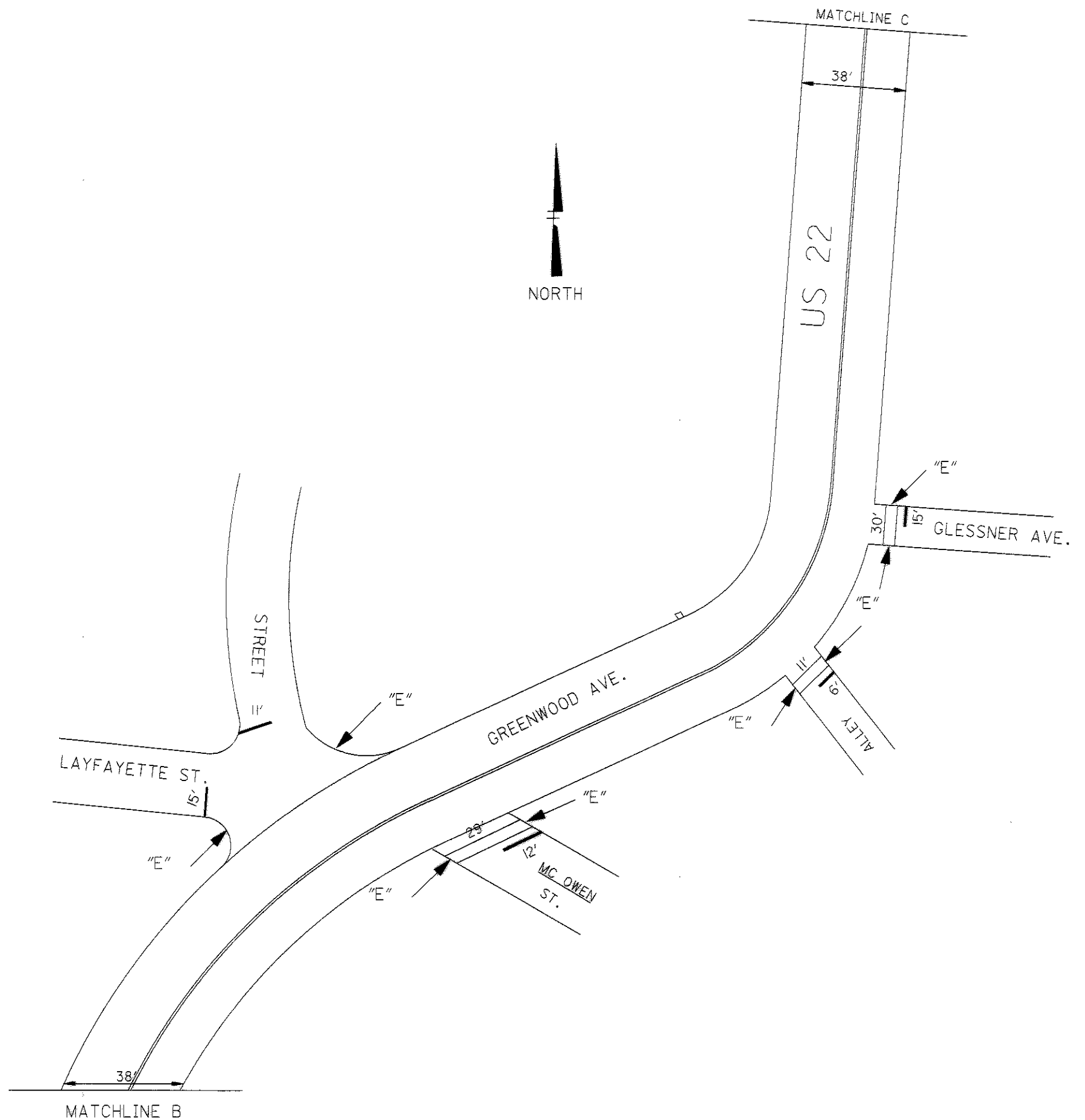
CURB RAMP, TYPE "E" = 8

QUANTITIES CARRIED TO SHEET 45.

LOCATION 2

ITEM 202 CURB REMOVED - 112 FT.
 ITEM 202 WALK REMOVED - 432 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN - 432 SQ.FT.

TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.



CALCULATED
 CHECKED

PLAN SHEET LOCATION 2

MUS-22-0-0.00
 MUS-22-9-77
 MUS-22D-0.00
 MUS-146-15.31
 MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76

44
 73

222pm18.dgn



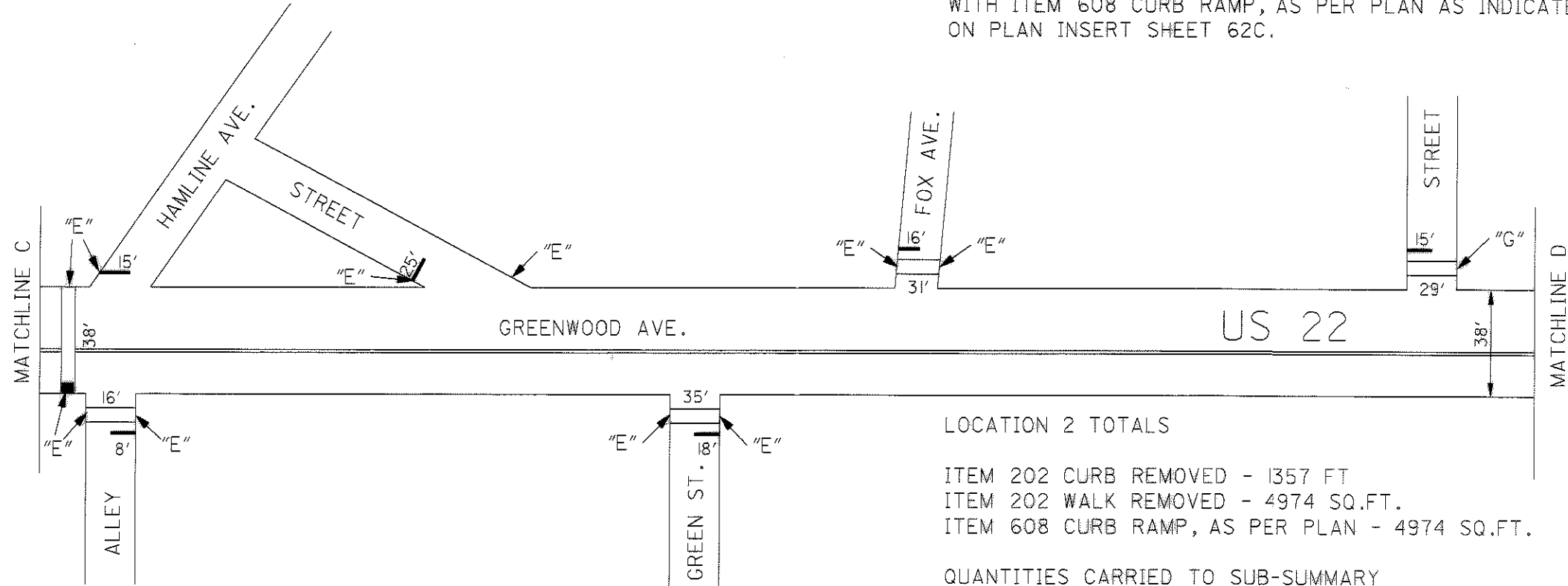
THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:
 TYPE A RAMPS = 108 SQ.FT. , 29 FT. CURB
 TYPE D RAMPS = 60 SQ.FT. , 15 FT. CURB
 TYPE E RAMPS = 54 SQ.FT. , 14 FT. CURB
 TYPE G RAMPS = 24 SQ.FT. , 14 FT. CURB

CURB RAMP, TYPE "A" = 1
 CURB RAMP, TYPE "E" = 13
 CURB RAMP, TYPE "G" = 1

LOCATION 2

ITEM 202 CURB REMOVED - 225 FT
 ITEM 202 WALK REMOVED - 834 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN - 834 SQ.FT.

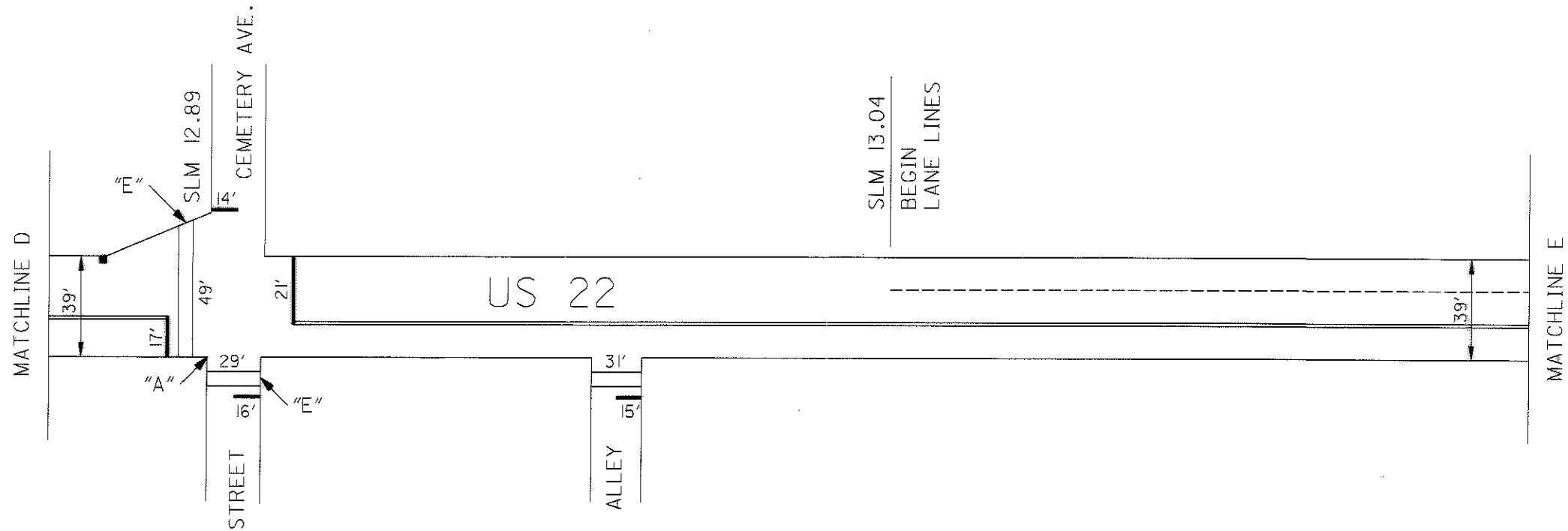
TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.



LOCATION 2 TOTALS

ITEM 202 CURB REMOVED - 1357 FT
 ITEM 202 WALK REMOVED - 4974 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN - 4974 SQ.FT.

QUANTITIES CARRIED TO SUB-SUMMARY



HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

PLAN SHEET LOCATION 2

MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-22D-0.00
 MUS-146-15.31



RESUME LOCATION I-SLM 13.24

MATCHLINE F

27'

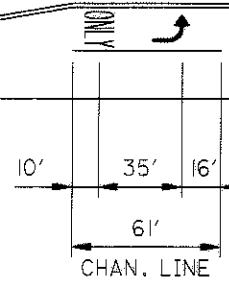
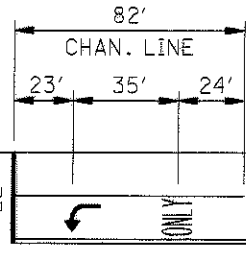
52'

RICHARDS RD.

30'

25'

22'



SHOPPING DRIVE

SLM 13.36
BEGIN LANE
LINES

US 22

US 22

131'

17'

BRIARCLIFF DR.

MATCHLINE E

SLM 13.24
CURB ENDS
END LANE LINES-
END LOCATION 2

ZANESVILLE CORP.

MATCHLINE F

MATCHLINE G

MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

CALCULATED
CHECKED





MATCHLINE G
SLM 13.84
END LANE
LINES

298'

150'

WESTWOOD DR.
22'
SLM 13.88
BEGIN NEW 3'
FB-BOTH SIDES

58 L.F.
TRANSVERSE LINES
(YELLOW)

30'

SLM 14.05

CLAYTON LN.
18'

US 22

EASTWOOD DR.
20'

MATCHLINE H

MATCHLINE H

SLM 14.22

DOWNING DR.
18'

SLM 14.32

RICHLINE WAY
18'

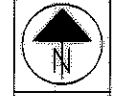
30'

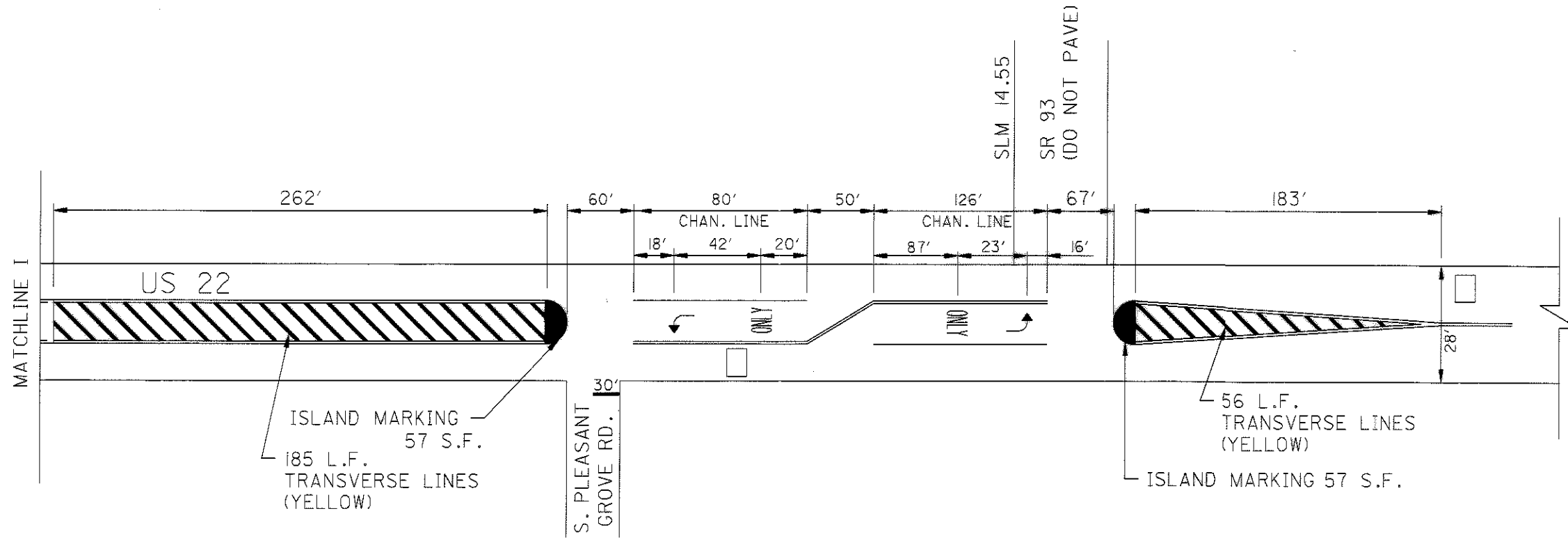
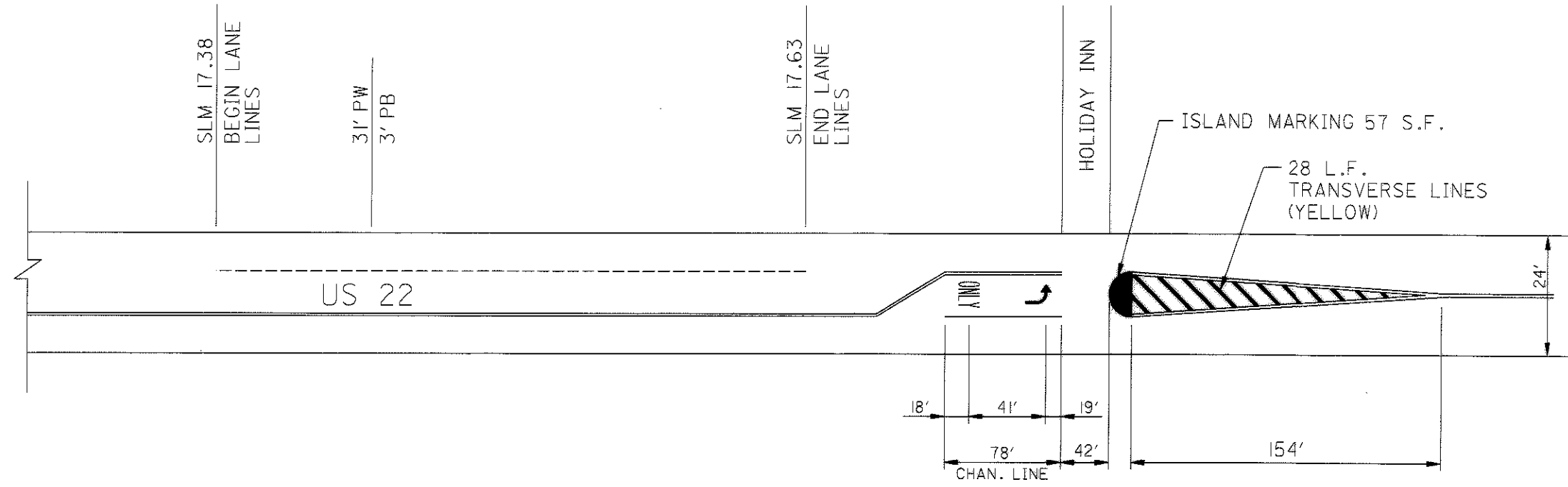
US 22

MATCHLINE I

MUS-22-0-00	MUS-719-0-00
MUS-22-9-77	MUS-719-0-04
MUS-22D-0-00	MUS-555-11-28
MUS-146-15-31	MUS-60-16-76

CALCULATED
CHECKED





MUS-22-0-00
MUS-22-9-77
MUS-22D-0-00
MUS-146-15.31

MUS-719-0-00
MUS-719-0-04
MUS-555-11.28
MUS-60-16.76

CALCULATED
CHECKED



THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:
 TYPE A RAMPS = 108 SQ.FT. , 29 FT. CURB
 TYPE D RAMPS = 60 SQ.FT. , 15 FT. CURB
 TYPE E RAMPS = 54 SQ.FT. , 14 FT. CURB
 TYPE G RAMPS = 24 SQ.FT. , 14 FT. CURB

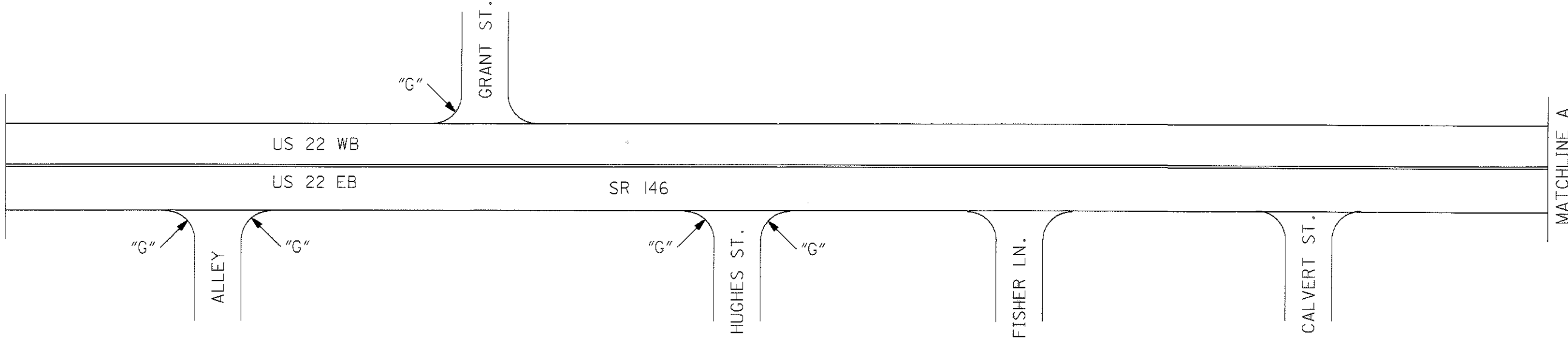
CURB RAMP, TYPE "G" = 7

TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.

LOCATION 4

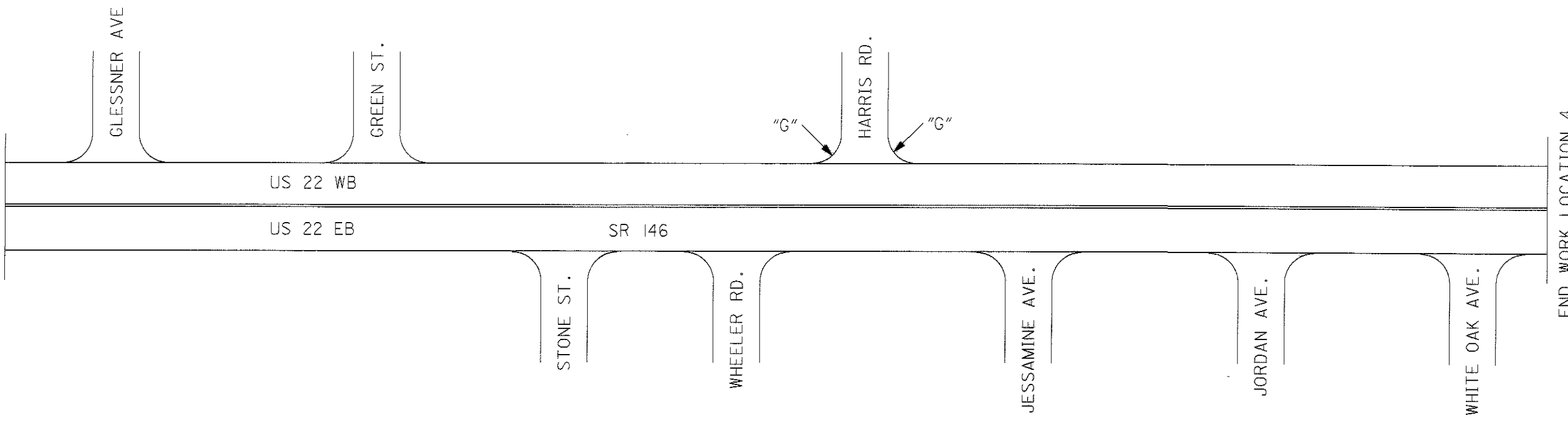
ITEM 202 CURB REMOVED - 168 FT
 ITEM 202 WALK REMOVED - 98 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN - 98 SQ.FT.
 QUANTITIES CARRIED TO SUB-SUMMARY

BEGIN WORK LOCATION 4
 SR 146 SLM 15.31

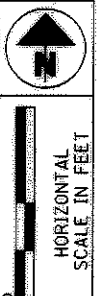


MATCHLINE A

MATCHLINE A



END WORK LOCATION 4
 SR 146 SLM 16.13



CALCULATED
 CHECKED

PLAN SHEET LOCATION 4

MUS-22-0-0.00
 MUS-22-9-7.7
 MUS-22D-0-0.00
 MUS-146-15.31

MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76



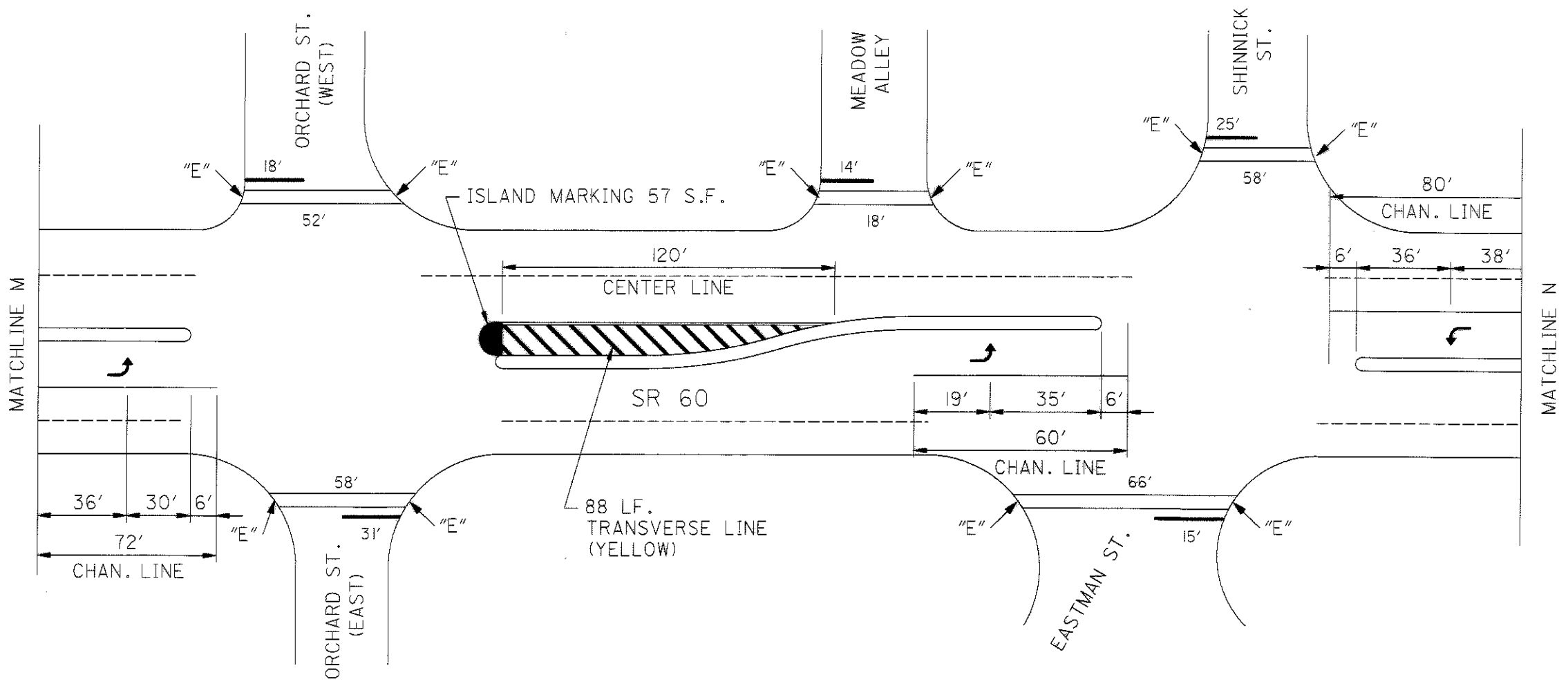
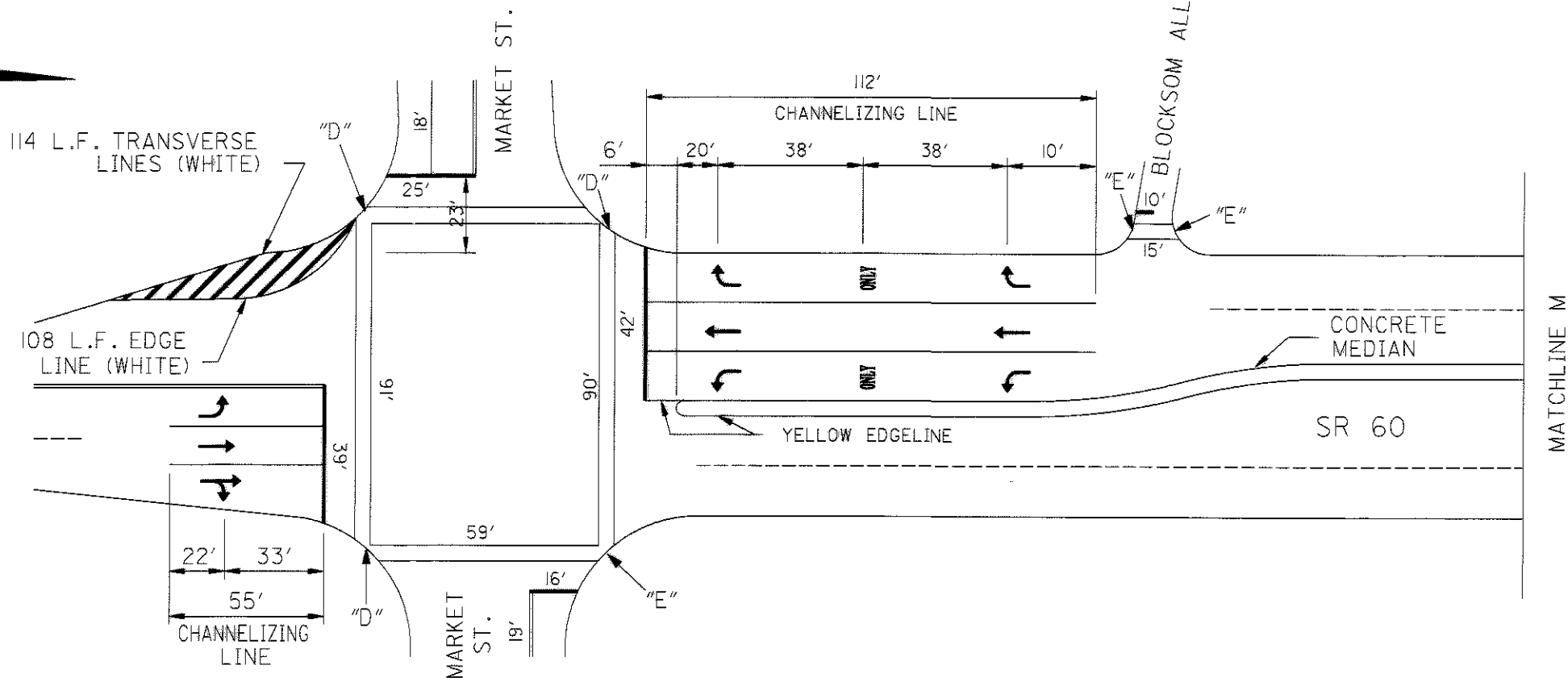
THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:
 TYPE A RAMPS = 108 SQ.FT. , 29 FT. CURB
 TYPE D RAMPS = 60 SQ.FT. , 15 FT. CURB
 TYPE E RAMPS = 54 SQ.FT. , 14 FT. CURB
 TYPE G RAMPS = 24 SQ.FT. , 14 FT. CURB

CURB RAMP, TYPE "D" = 3
 CURB RAMP, TYPE "E" = 13
 QUANTITIES CARRIED TO SHEET 54.

LOCATION 8

ITEM 202 CURB REMOVED - 227 FT
 ITEM 202 WALK REMOVED - 882 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN - 882 SQ.FT.

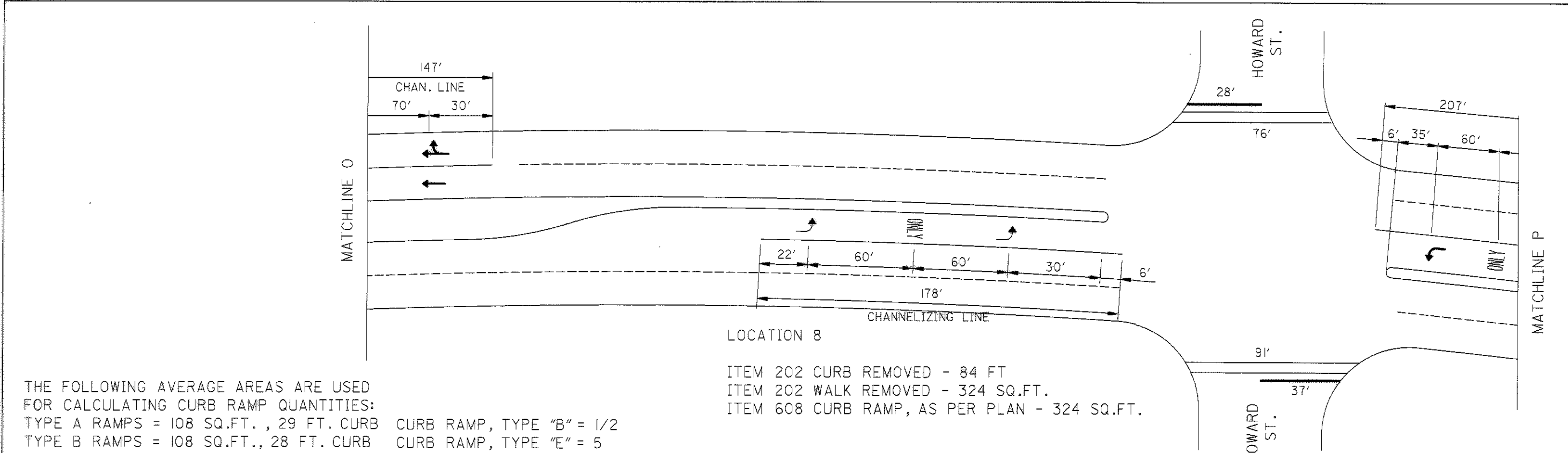
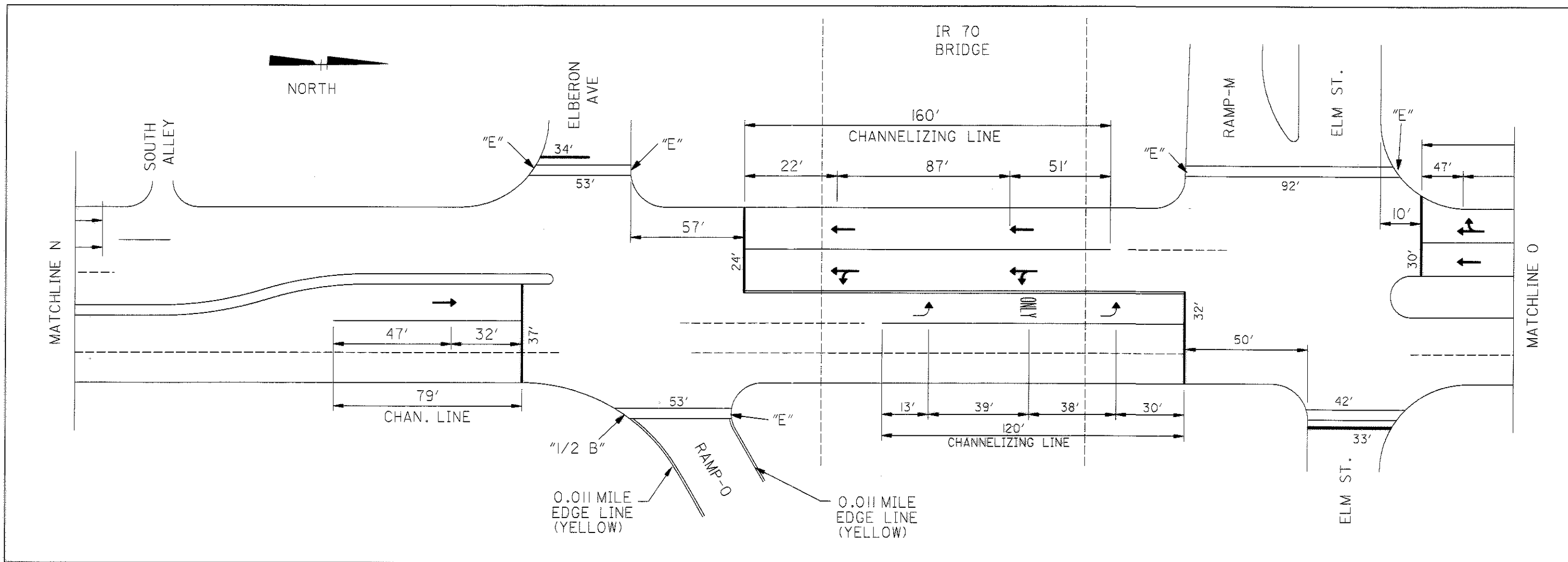
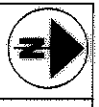
TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.



MATCHLINE M

PLAN SHEET LOCATION 8

MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-22D-0.00
 MUS-146-15.31



LOCATION 8

- ITEM 202 CURB REMOVED - 84 FT
- ITEM 202 WALK REMOVED - 324 SQ.FT.
- ITEM 608 CURB RAMP, AS PER PLAN - 324 SQ.FT.

TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.

THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:

TYPE A RAMPS = 108 SQ.FT., 29 FT. CURB	CURB RAMP, TYPE "B" = 1/2
TYPE B RAMPS = 108 SQ.FT., 28 FT. CURB	CURB RAMP, TYPE "E" = 5
TYPE D RAMPS = 60 SQ.FT., 15 FT. CURB	
TYPE E RAMPS = 54 SQ.FT., 14 FT. CURB	QUANTITIES CARRIED TO SHEET 54.
TYPE G RAMPS = 24 SQ.FT., 14 FT. CURB	

CALCULATED	CHECKED
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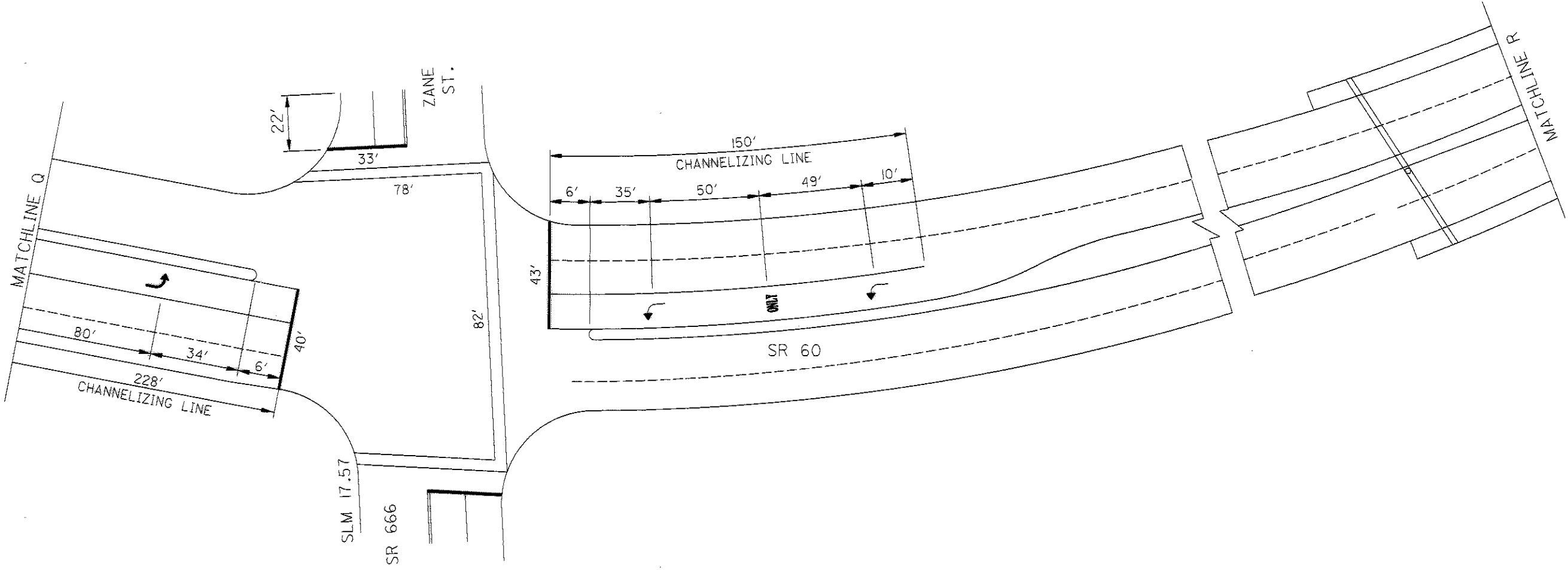
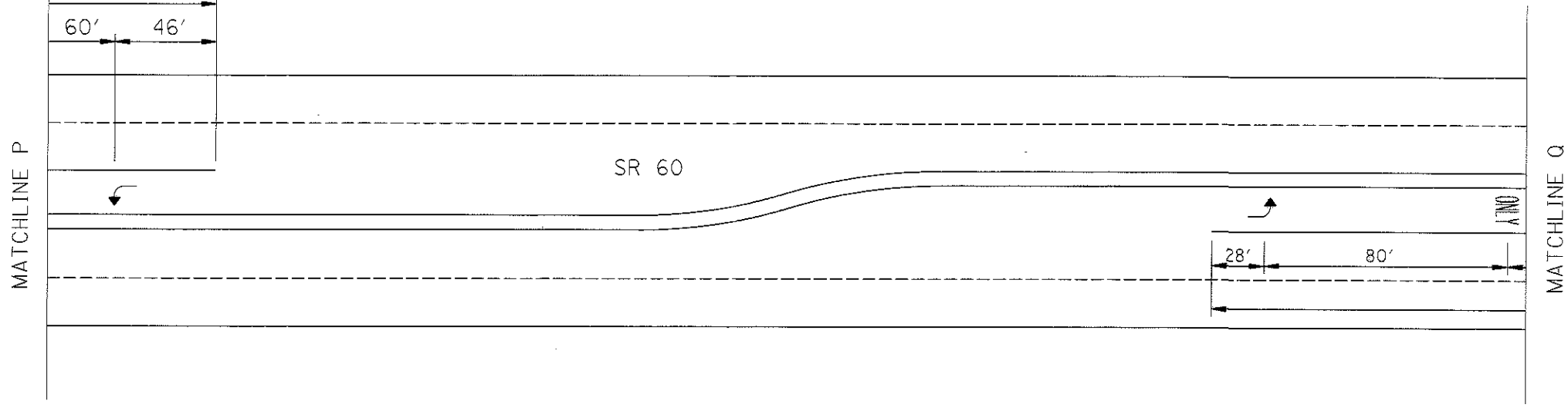
PLAN SHEET LOCATION 8

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

MUS-22-0.00
MUS-22-9.77
MUS-220-0.00
MUS-146-15.31

51
73

722pm2.dgn



CALCULATED

CHECKED

PLAN SHEET LOCATION 8

MUS-22-0-00 MUS-719-0.00
 MUS-22-9-77 MUS-719-0.04
 MUS-22D-0.00 MUS-555-11.28
 MUS-146-15.31 MUS-60-16.76



NORTH

MATCHLINE R

MATCHLINE S

MUS-60-17.66

MATCHLINE S

MATCHLINE T

SR 60

MUS-22-0-00	MUS-719-0.00
MUS-22-9.77	MUS-719-0.04
MUS-22D-0.00	MUS-555-11.28
MUS-146-15.31	MUS-60-16.76

53
73

PLAN SHEET LOCATION 8

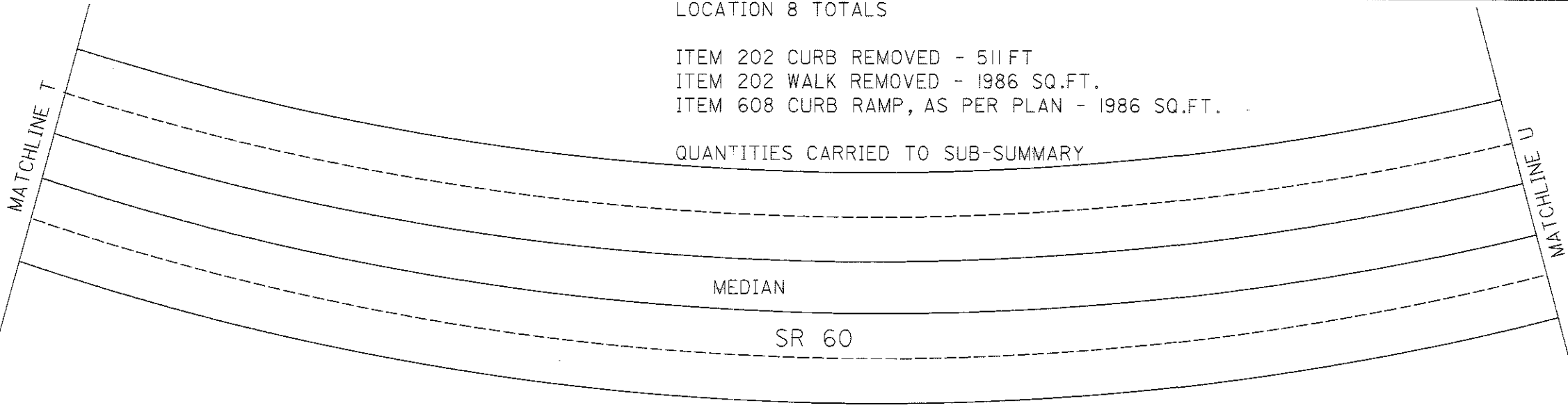
CALCULATED
CHECKED



LOCATION 8 TOTALS

- ITEM 202 CURB REMOVED - 511 FT
- ITEM 202 WALK REMOVED - 1986 SQ.FT.
- ITEM 608 CURB RAMP, AS PER PLAN - 1986 SQ.FT.

QUANTITIES CARRIED TO SUB-SUMMARY



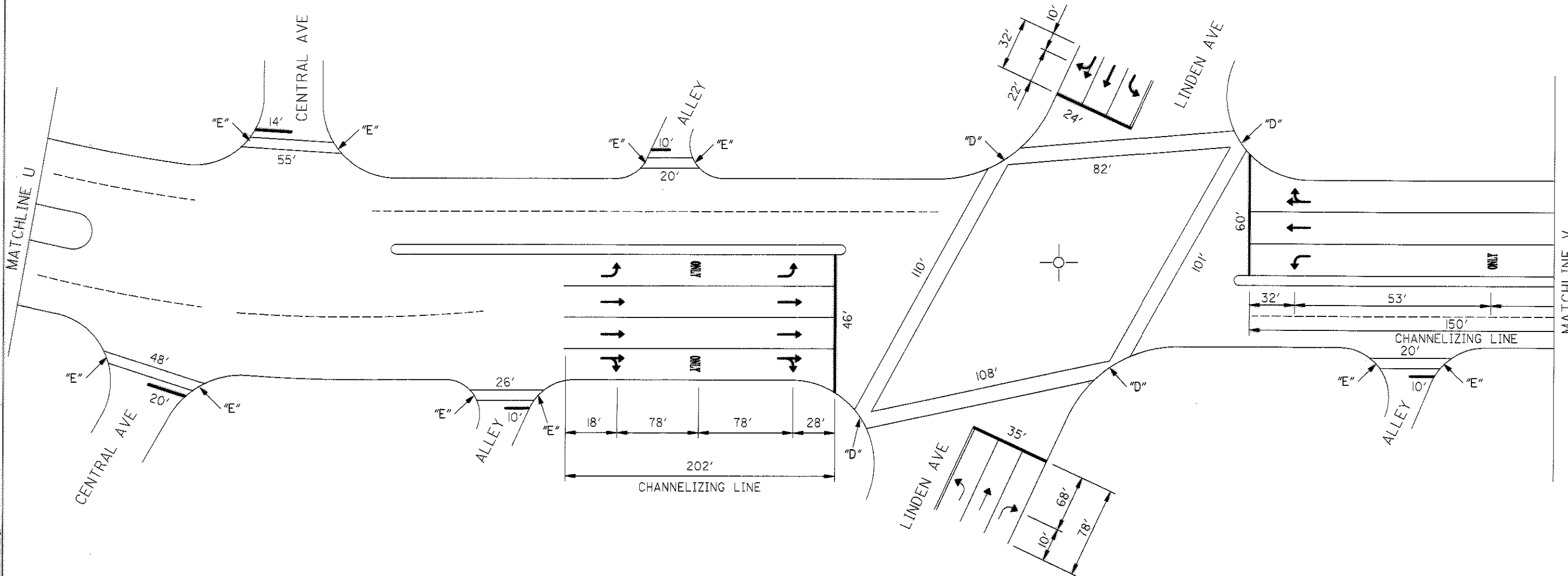
LOCATION 8

- ITEM 202 CURB REMOVED - 200 FT
- ITEM 202 WALK REMOVED - 780 SQ.FT.
- ITEM 608 CURB RAMP, AS PER PLAN - 780 SQ.FT.

TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.

THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:
 TYPE A RAMPS = 108 SQ.FT. , 29 FT. CURB
 TYPE D RAMPS = 60 SQ.FT. , 15 FT. CURB
 TYPE E RAMPS = 54 SQ.FT. , 14 FT. CURB
 TYPE G RAMPS = 24 SQ.FT. , 14 FT. CURB

CURB RAMP, TYPE "D" = 4
 CURB RAMP, TYPE "E" = 10



CALCULATED
CHECKED

PLAN SHEET LOCATION 8

- MUS-22-0-00
- MUS-719-0-00
- MUS-22-9-77
- MUS-719-0-04
- MUS-22D-0-00
- MUS-555-II-28
- MUS-146-15-31
- MUS-60-16-76

54
73

222pm5.dgn

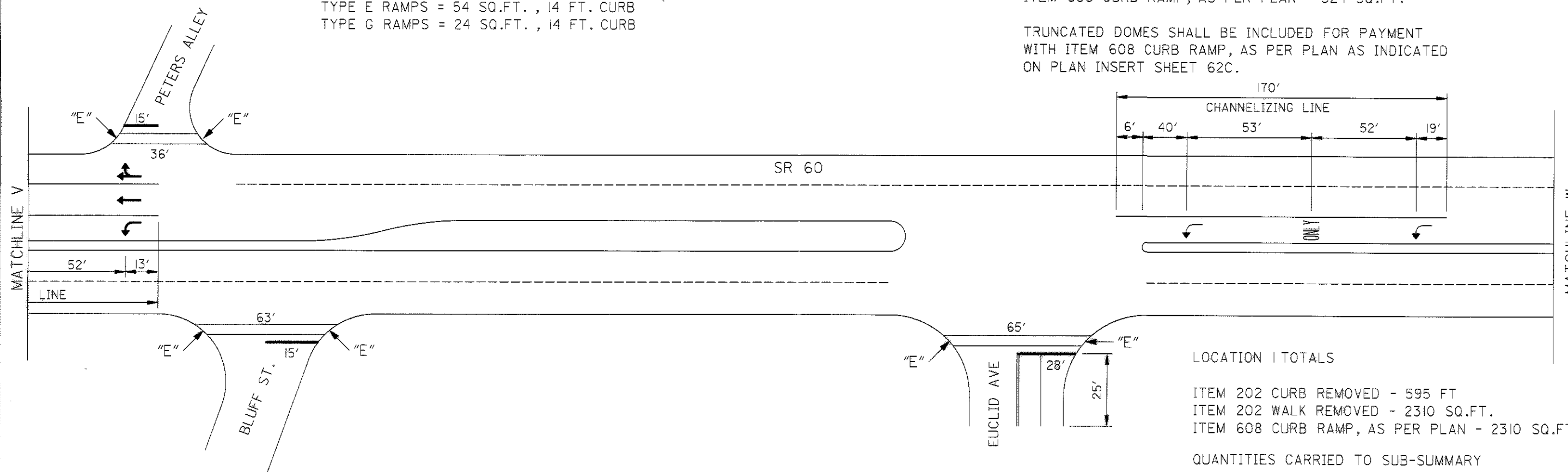
THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING CURB RAMP QUANTITIES:
 TYPE A RAMPS = 108 SQ.FT. , 29 FT. CURB
 TYPE D RAMPS = 60 SQ.FT. , 15 FT. CURB
 TYPE E RAMPS = 54 SQ.FT. , 14 FT. CURB
 TYPE G RAMPS = 24 SQ.FT. , 14 FT. CURB

CURB RAMP, TYPE "E" = 6

LOCATION 1

ITEM 202 CURB REMOVED - 84 FT
 ITEM 202 WALK REMOVED - 324 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN - 324 SQ.FT.

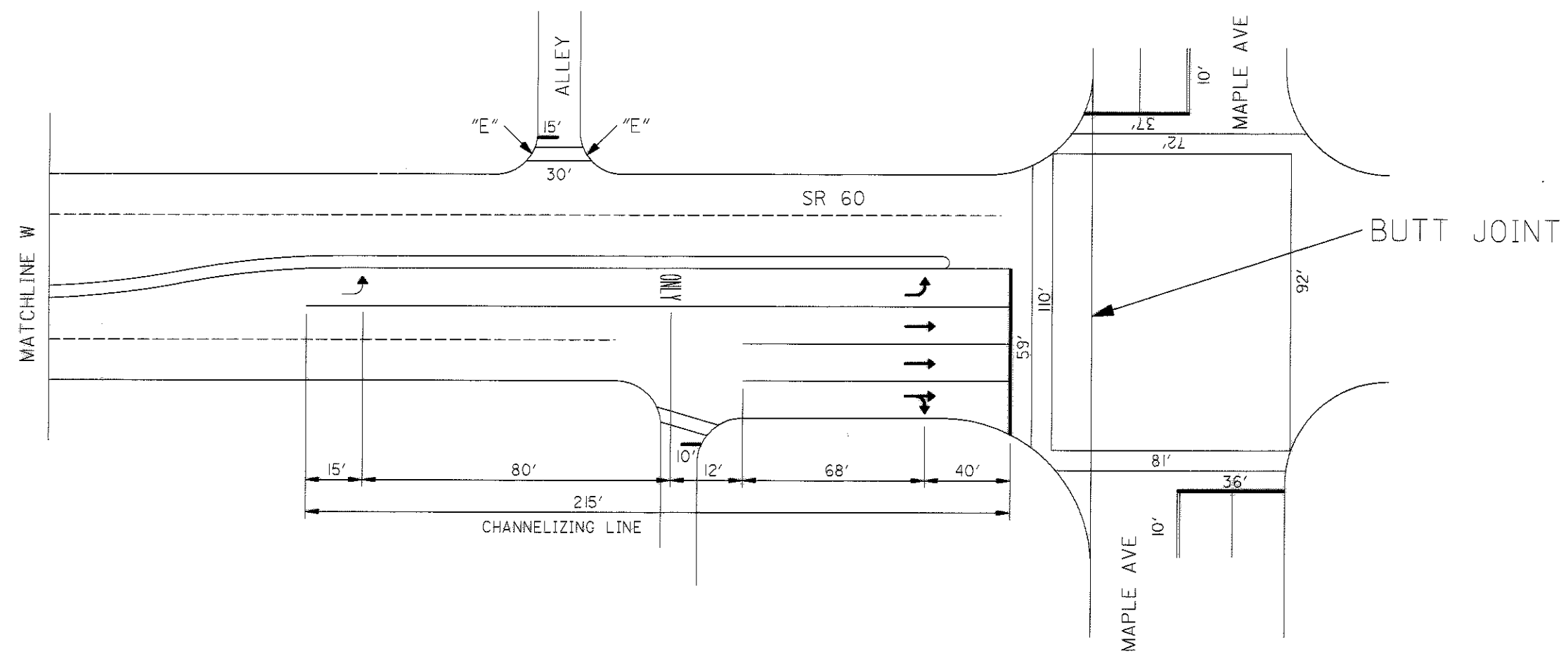
TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 62C.



LOCATION 1 TOTALS

ITEM 202 CURB REMOVED - 595 FT
 ITEM 202 WALK REMOVED - 2310 SQ.FT.
 ITEM 608 CURB RAMP, AS PER PLAN - 2310 SQ.FT.

QUANTITIES CARRIED TO SUB-SUMMARY



PLAN SHEET LOCATION 8

CALCULATED	CHECKED
MUS-22-0-0.00	MUS-719-0.00
MUS-22-9.77	MUS-719-0.04
MUS-22D-0.00	MUS-555-11.28
MUS-146-15.31	MUS-60-16.76

222pm6.dgn

QUANTITIES INCLUDE CL AROUND OUTSIDE OF PAINTED ISLAND

CENTER LINE SUB-SUMMARY

LOCATION	CO.	ROUTE	S.L.M.		CENTER LINES QUANTITIES		PARTICIPATION TYPE			644 TOTAL CENTER LINE MILES	642 TOTAL CENTER LINE MILES	REMARKS
			FROM	TO	TOTAL MILES	EQUIVALENT SOLID LINE	IRG	FG	RSG			
1	MUS	22	0.00	6.23	6.23	6.99					6.23	
			6.70	9.77	6.14	7.68				6.14		5-LANE SECTION WITH CENTER TURN LANE
			13.24	13.80	0.56	1.09				0.56		
			13.80	14.55	1.50	1.88				1.50		3-LANE SECTION WITH CENTER TURN LANE
			14.55	23.31	8.76	11.50					8.76	
			23.31	27.68	4.37	8.74			4.37		4-LANE TO END LOCATION 1	
1	MUS	22	TOTAL		27.56	37.88			12.57	14.99		
2	MUS	22	9.77	10.36	1.18	1.48				1.18		5-LANE WITH CENTER TURN LANE
			10.36	11.58	1.22	2.44				1.22		
			12.37	13.24	1.01	2.02				1.01		
2	MUS	22	TOTAL		3.41	5.94			3.41			
3	MUS	22D	0.00	0.21	0.21	0.42				0.21		
4	MUS	146	15.31	16.13	0.82	1.64				0.82		
5	MUS	719	0.00	0.04	0.04	0.08				0.04		
			0.07	0.57	0.50	1.00				0.50		
5	MUS	719	TOTAL		0.54	1.08				0.54		
6	MUS	719	0.04	0.07	0.03	0.06				0.03		
			0.57	0.61	0.04	0.08				0.04		
6	MUS	719	TOTAL		0.07	0.14				0.07		
7	MUS	555	11.28	11.36	0.08	0.16				0.08		

EDGE LINE SUB-SUMMARY

INCLUDES EXTRA EDGE LINES FOR BIKE LANE 22.31 TO 26.52

LOCATION	CO.	ROUTE	S.L.M.		WHITE EDGE LINE QU.			YELLOW EDGE LINE QU.			PARTICIPATION TYPE			644 EDGE LINES TOTAL MILES	642 EDGE LINES TOTAL MILES	REMARKS
			FROM	TO	TOTAL MILES	HIGHWAY	BIKE RAMP	TOTAL MILES	HIGHWAY	RAMP	IRG	FG	RSG			
1	MUS	22	0.00	6.23	12.46	12.46									12.46	
			6.23	6.70	0.94	0.94								1.88		
			6.70	8.95	4.50	4.50								4.50		
1	MUS	22	13.24	26.92	#35.78	27.36	8.42							#35.78		
			TOTAL		53.68	45.26	8.42	0.94						6.38	48.24	
5	MUS	719	0.00	0.04	0.08	0.08							0.08			
			0.07	0.57	1.00	1.00								1.00		
5	MUS	719	TOTAL		1.08	1.08							1.08			
6	MUS	719	0.04	0.07	0.06	0.06							0.06			
			0.57	0.61	0.08	0.08								0.08		
6	MUS	719	TOTAL		0.14	0.14							0.14			
7	MUS	555	11.28	11.36	0.16	0.16							0.16			
8	MUS	60	16.76	17.93				2.26	2.26				2.26		EDGE LINE AROUND CONCRETE MEDIAN	

m0220001.fc 04-14-99

CALCULATED
LME
CHECKED
TJD

CENTER/EDGE LINE SUB-SUMMARY

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31

56
73

644 LANE LINE SUB-SUMMARY

LOCATION	CO.	ROUTE	S.L.M.		QUANTITIES			PARTICIPATION TYPE	AUXILIARY MARKINGS			REMARKS
					TOTAL MILES	4" LANE LINES			FG	CHANNELIZING LINE FEET	TRANSVERSE LINE FEET	
			FROM	TO		DASHED	SOLID					
1	MUS	22	6.70	6.14	6.14							
			17.38	0.25	0.25							
			26.86	7.10	7.10							
1	MUS	22	TOTAL	13.49	13.49							
2	MUS	22	9.77	10.36	1.18	1.18						
			13.04	13.24	0.20	0.20						
2	MUS	22	TOTAL		1.38	1.38						
5	MUS	719	0.00	0.04	0.08	0.08						
			0.07	0.57	1.00	1.00						
5	MUS	719	TOTAL		1.08	1.08						
6	MUS	719	0.04	0.07	0.06	0.06						
			0.57	0.61	0.08	0.08						
6	MUS	719	TOTAL		0.14	0.14						
7	MUS	555	11.28	11.36	0.16	0.16						
8	MUS	60	16.76	17.93	2.26	2.26						

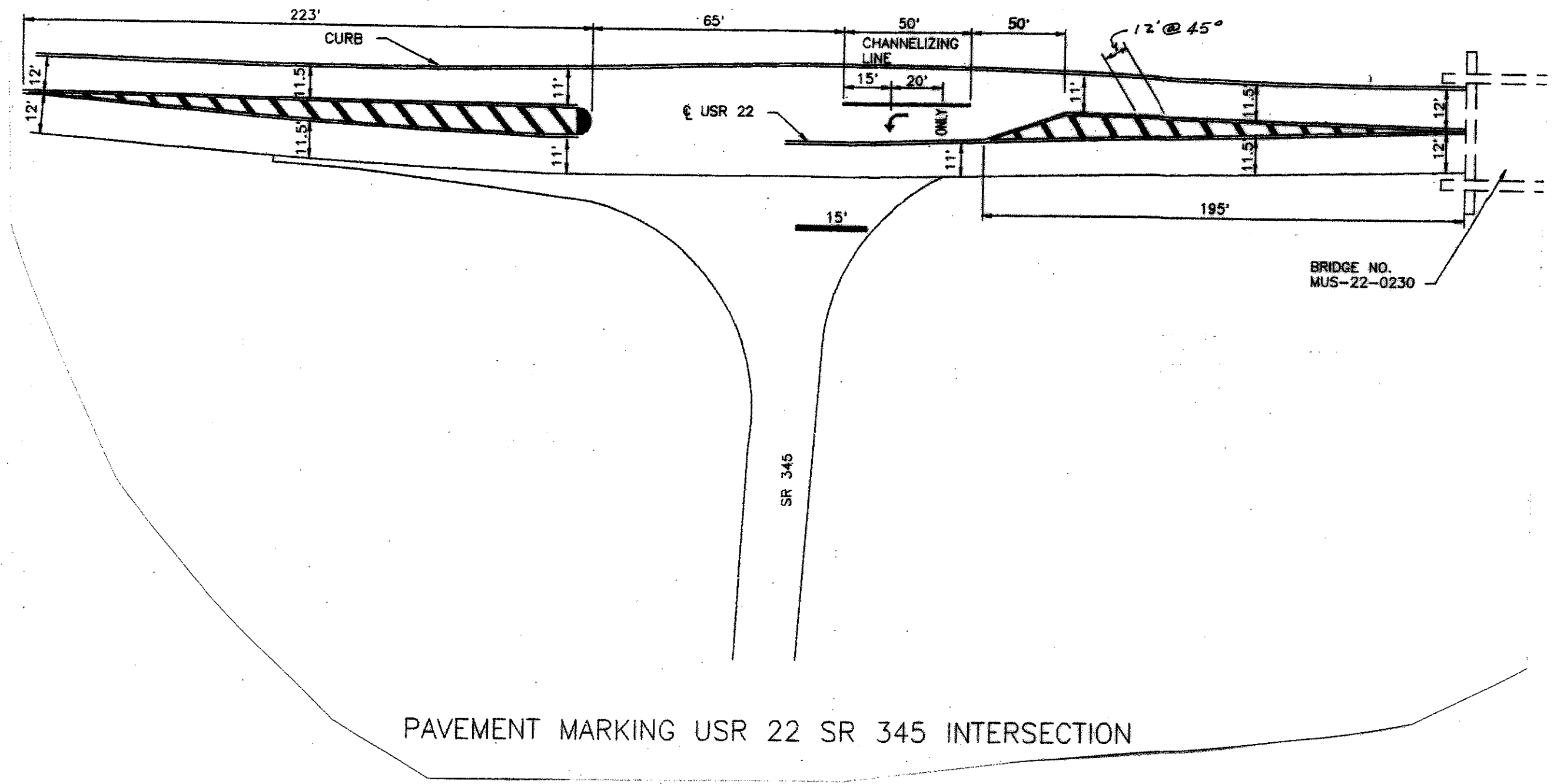
M022001.TEL 2-9-04

CALCULATED
LME
CHECKED
TJD

LANE LINE SUB-SUMMARY

MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-220-0.00
 MUS-146-15.31

57
73

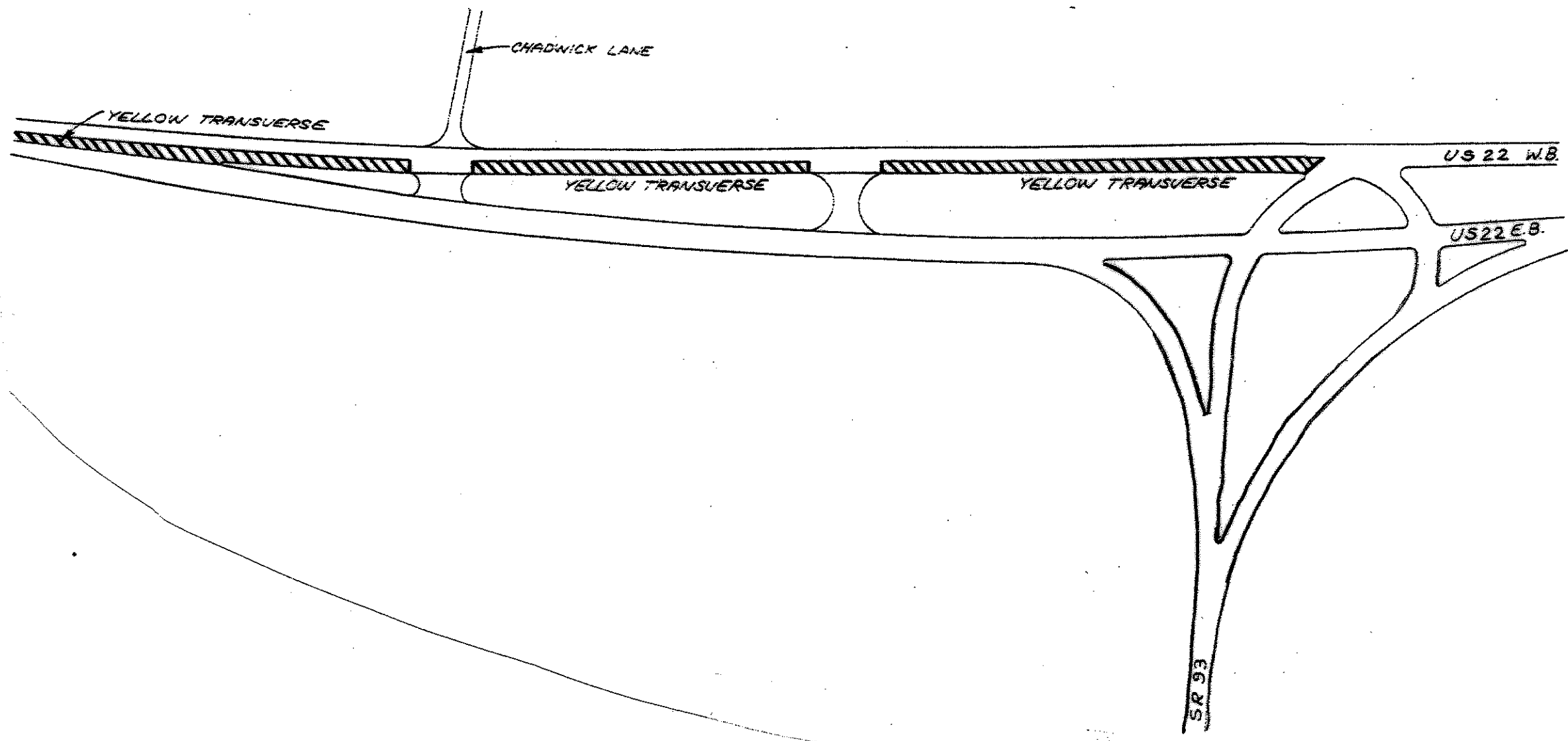
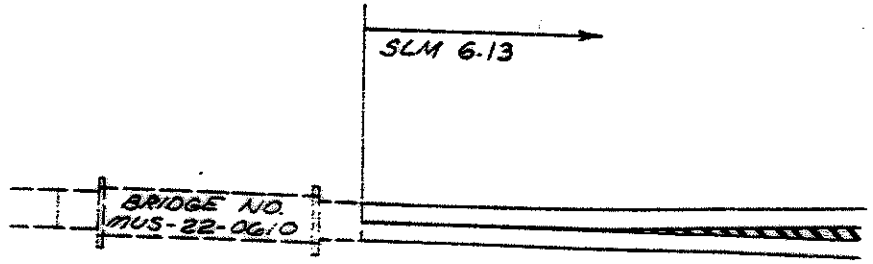


PAVEMENT MARKING USR 22 SR 345 INTERSECTION

m022001.pmd

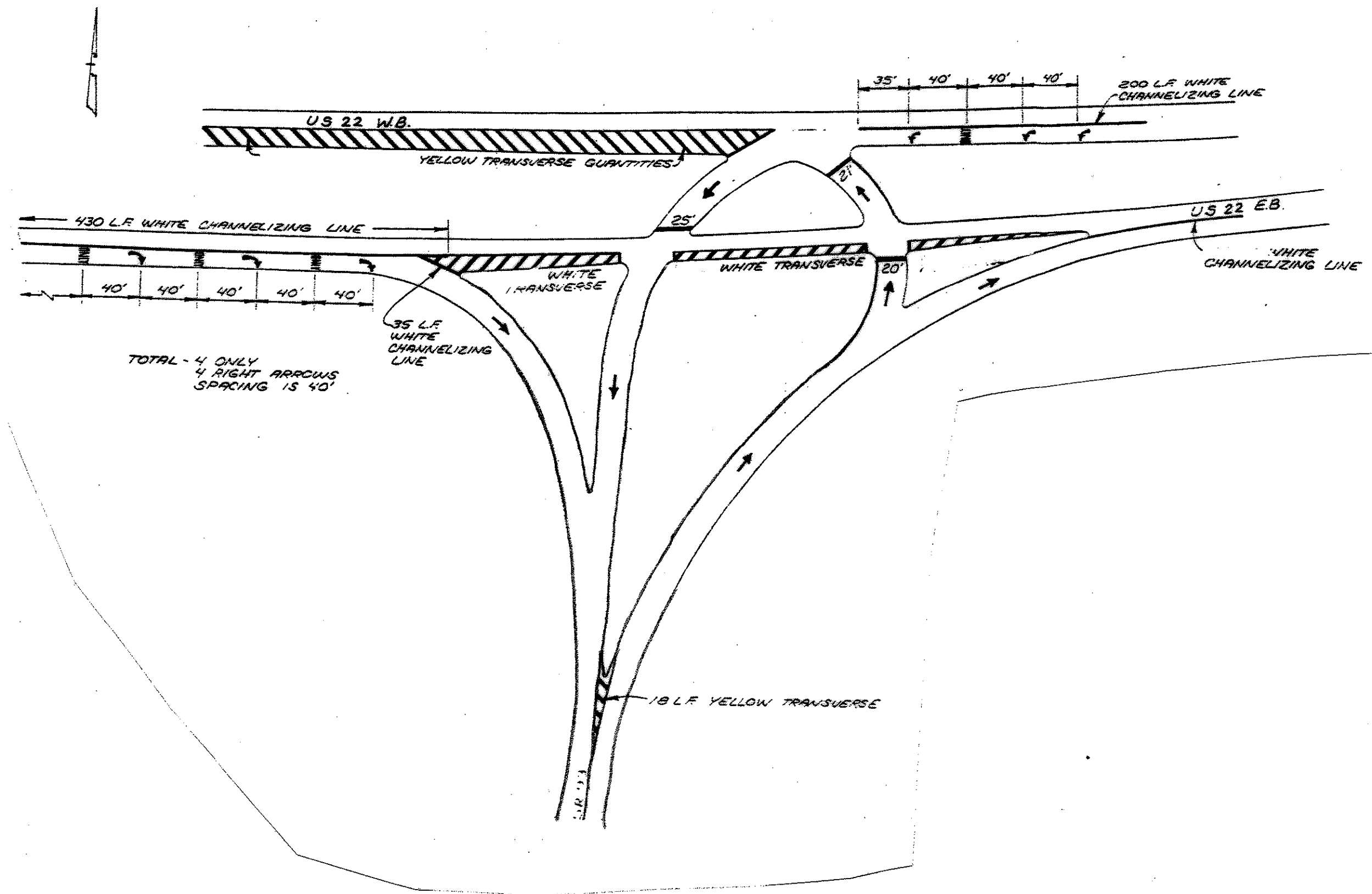
CALCULATED	
CHECKED	
PAVEMENT MARKING DETAIL	
MUS-22-0-00	MUS-719-0-00
MUS-22-9-77	MUS-719-0-04
MUS-22D-0-00	MUS-555-11.28
MUS-146-15.31	MUS-60-16.76

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73



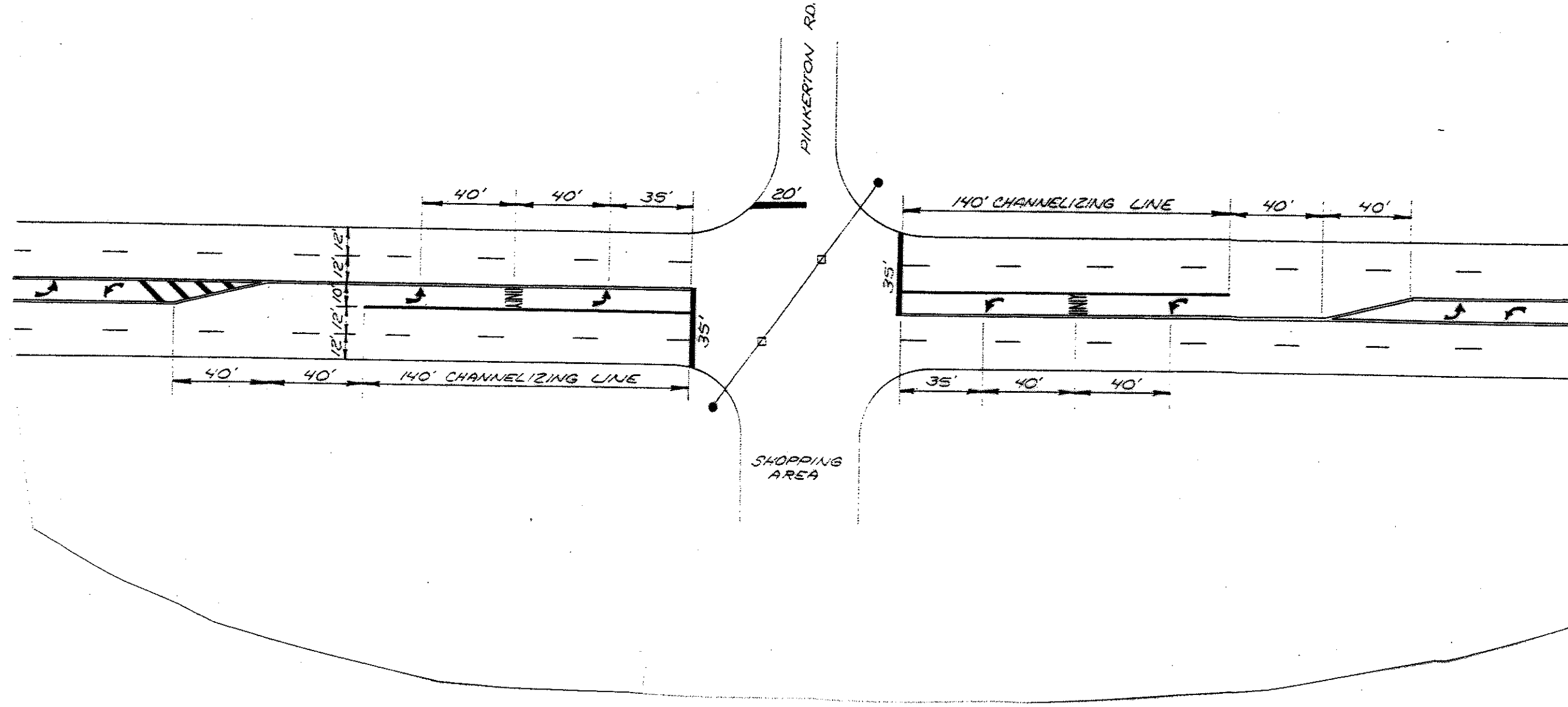
m022002.pmd

CALCULATED	
CHECKED	
PAVEMENT MARKING DETAIL	
MUS-22-0.00	MUS-719-0.00
MUS22-9.77	MUS-719-0.04
MUS-22D-0.00	MUS-555-11.28
MUS-146-15.31	MUS-60-16.76



TOTAL - 4 ONLY
4 RIGHT ARROWS
SPACING IS 40'

CALCULATED	
CHECKED	
PAVEMENT MARKING DETAIL	
MUS-22-0-00	MUS-719-0-00
MUS22-9-77	MUS-719-0-04
MUS-22D-0-00	MUS-555-11-28
MUS-146-15-31	MUS-60-16-76



CALC. BY SAB
DATE 07-02-02

CHKD. BY _____
DATE _____

LOCATION SUB-SUMMARY

DETAIL	
1	TAPERED ACCELERATION LANE
2	DECELERATION LANE
3	MULTILANE DIVIDED/ CONTROLLED ACCESS

DETAIL	
4	4 LANE DIVIDED TO 2 LANE TRANSITION
5	4 LANE UNDIVIDED TO 2 LANE TRANSITION
6	ONE LANE BRIDGE
7	STOP APPROACH
8	THRU APPROACH
9	TWO WAY LEFT TURN LANE

DETAIL	
10	APPROACH W/LT. TURN LANE
11	HORIZONTAL CURVE 40' (NOTE 2)
12	HORIZONTAL CURVE ALT. (NOTE 3)
GAP	CENTERLINE AT 80' TYP.

LOCATION NUMBER	LOCATION				DETAIL	RPM	ITEM QUANTITIES			PRISMATIC RETRO-REFLECTOR	PRISMATIC RETRO-REFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S.L.M. MILES				INSTALLATION ONLY				ONE-WAY		TWO-WAY			
			FROM	TO			RPM	RPM CASTING	PRISMATIC RETRO-REFLECTOR		WHITE	YELLOW	YELLOW/YELLOW	WHITE/RED	YELLOW/RED	
1	MUS	US 22	0.00	2.08	GAP		137									START PERRY COUNTY
	MUS	US 22	2.08	2.25	MOD		40				16		24			AT SR 345
	MUS	US 22	2.25	2.44	IO		88				45		43			E. APPROACH TO SR 345
	MUS	US 22	2.44	6.13	GAP		243						243			
	MUS	US 22	6.16	6.43	4		125				76	31	15	3		
	MUS	US 22	6.43	6.43	REM		22				22					CHANNELIZING LINE AT 10'
	MUS	US 22	6.43	6.43	2		23				21	2				
	MUS	US 22	6.43	6.64	REM		46				23	23				LEFT & RIGHT EDGE LINE
	MUS	US 22	6.60	6.64	REM		21				21					CHANNELIZING LINE AT 20'
	MUS	US 22	6.64	6.71	3		5							5		
	MUS	US 22	6.71	6.62	3		6							6		
	MUS	US 22	6.62	6.58	REM		21				21					CHANNELIZING LINE AT 20'
	MUS	US 22	6.58	6.43	REM		20				10	10				LEFT & RIGHT EDGE LINE
	MUS	US 22	6.71	8.03	9		522						348	174		
	MUS	US 22	8.03	8.15	10		50				38		12			AT PINKERTON ROAD
	MUS	US 22	8.15	8.27	10		50				38		12			AT PINKERTON ROAD
	MUS	US 22	8.27	8.95	9		269						179	90		
	MUS	US 22	13.17	13.36	7		64				38		26			WEST OF RICHARDS RD.
	MUS	US 22	13.36	13.38	7		2				1		1			WEST OF RICKARDS RD.
	MUS	US 22	13.38	13.59	7		72				39		33			EAST OF RICHARDS RD.
	MUS	US 22	13.38				9				9					CH LINE AT RICHARDS RD. AND SHOP DR.
	MUS	US 22	13.49	13.97	REM		32							32		CLIMBING LANE 80' SPACE
	MUS	US 22	13.59	13.97	9		50						50			
	MUS	US 22	13.97	14.47	2		132						132			
	MUS	US 22	14.47	14.64	MOD		61				16		45			
	MUS	US 22	14.64	14.67	REM		15				11		4			CHANNEL LINE 20' SPACE CL 50' SPACE
	MUS	US 22	14.67	14.84	MOD		43				16		27			AT SR 93
	MUS	US 22	14.84	17.81	GAP		196						196			
	MUS	US 22	17.50	17.74	REM		16							16		CLIMBING LANE AT 80' SPACE
	MUS	US 22	17.80	17.81	REM		4				4					CHANNEL LINE AT HOLIDAY INN 20' SPACE
	MUS	US 22	17.81	17.98	MOD		38				16		22			AT HOLIDAY INN
	MUS	US 22	17.98	18.09	GAP		7						7			
	MUS	US 22	18.09	18.19	7		18				6		12			AT SR 797 EL AT 80' CL AT 40'
	MUS	US 22	18.19	18.26	7		42				27		15			APPROACH TO SR 797
	MUS	US 22	18.26	18.46	7		66				39		27			APPROACH TO SR 797
	MUS	US 22	18.46	23.22	GAP		314						314			
	MUS	US 22	23.22	23.42	5		18				10			8		
	MUS	US 22	23.42	26.80	REM		669						223	446		4-LANE UNDIVIDED CL AT 80', LL AT 80'
	MUS	US 22	27.74	27.93	5		125				50	50		25		
		TOTALS					3681				613	116	2147	805		

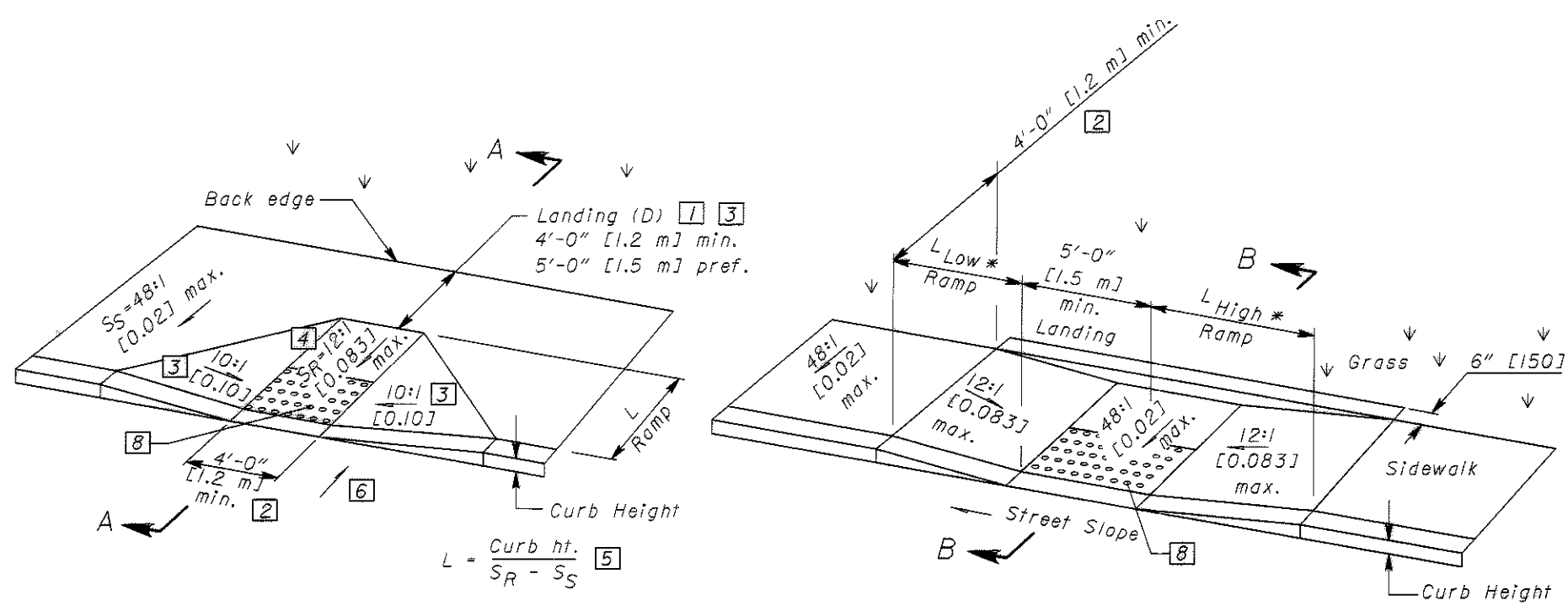
M022001.TRM 2-6-04

RPM LOCATION SUB-SUMMARY

MUS-719-0.00
 MUS-719-0.04
 MUS-555-H.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-22D-0.00
 MUS-146-15.31

62
73

CALCULATED
 LANE
 CHECKED
 TJD



Street Slope	Ramp Length @ 1"/ft [0.083]	
	LOW SIDE*	HIGH SIDE*
0.01	5'-5" [1.6 m]	6'-10" [2.1 m]
0.02	4'-10" [1.5 m]	7'-11" [2.4 m]
0.03	4'-5" [1.3 m]	9'-5" [2.9 m]
0.04	4'-1" [1.2 m]	11'-8" [3.6 m]
0.05	3'-9" [1.1 m]	15'-2" [4.6 m]

* Measured along the back of a 6" [150] high curb.

$$L_{HIGH} = \frac{\text{Curb ht.}}{0.083 - \text{Street Slope}} \quad [7]$$

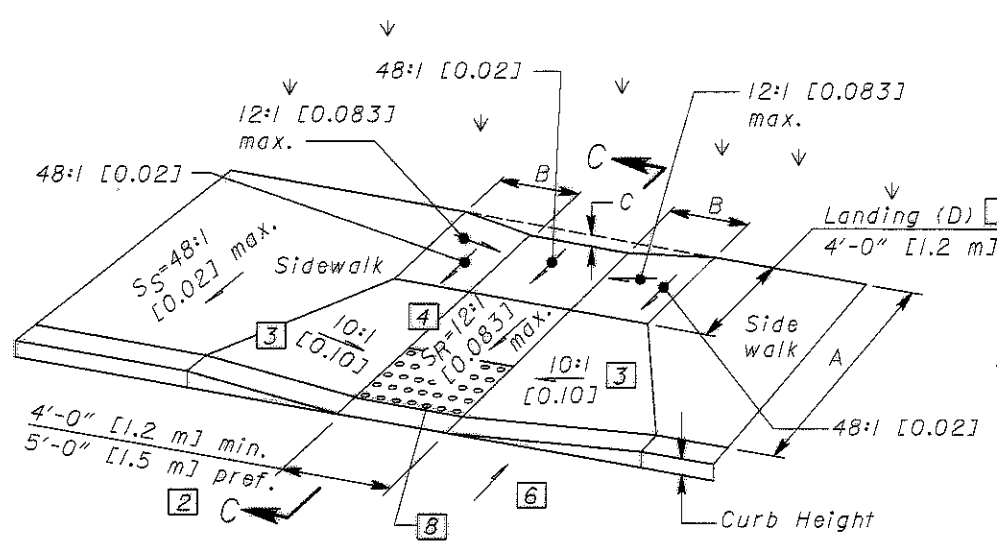
$$L_{LOW} = \frac{\text{Curb ht.}}{0.083 + \text{Street Slope}} \quad [7]$$

LEGEND

- [1] May be reduced to 3'-0" [915] in existing sidewalks if the landing is unconstrained along the back edge.
- [2] May be reduced to 3'-4" [1.02 m] in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width may be tapered.
- [3] Where landing width (D) has been reduced to 3'-0" [915] the flared sides shall have a maximum slope of 12:1 [0.083].
Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheel chair users or pedestrians across the edge of the curb ramp. However, if the flared sides are used in these areas, they may be of any slope.
- [4] The slope of the ramp toward the curb is preferred to be 12:1 [0.083] or flatter related to the horizontal, but the maximum slope shall be 12:1 [0.083] relative to the existing or proposed walk slope.
In existing sidewalks, where the maximum ramp slope (S_R) is not feasible, it may be reduced as follows:
A) 10:1 [0.10] for a max. rise of 6" [150],
B) 8:1 [0.125] for a max. rise of 3" [75],
C) 6:1 [0.167] over a max. run of 2'-0" [610] for historic areas where a flatter slope is not feasible.
- [5] The minimum length of a perpendicular ramp is 6' [2.0 m] from the back of a 6" [150] curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.
- [6] Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [610] from the curb.
- [7] Dimensions derived by equation are nominal. Construct ramps to meet required slopes and existing conditions.
- [8] Detectable Warnings (truncated domes) are to be installed in the location shown. Dimensions of the domes are 24" [610] from the back of the curb by the width of the ramp. See NOTES on sheet 3.

See Sht. 3/3 for SECTION A-A
PERPENDICULAR CURB RAMP DETAIL

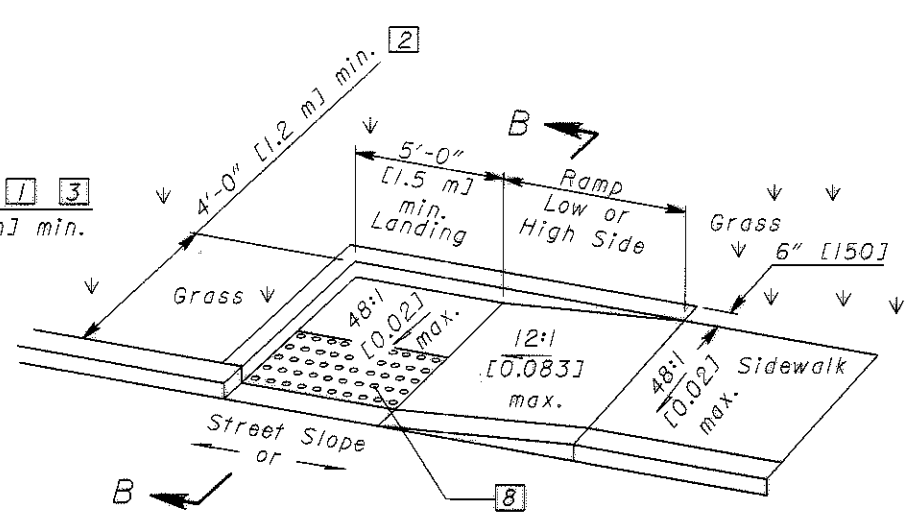
See Sht. 3/3 for SECTION B-B
PARALLEL CURB RAMP DETAIL (DOUBLE)



See Sht. 3/3 for SECTION C-C
COMBINED CURB RAMP DETAIL

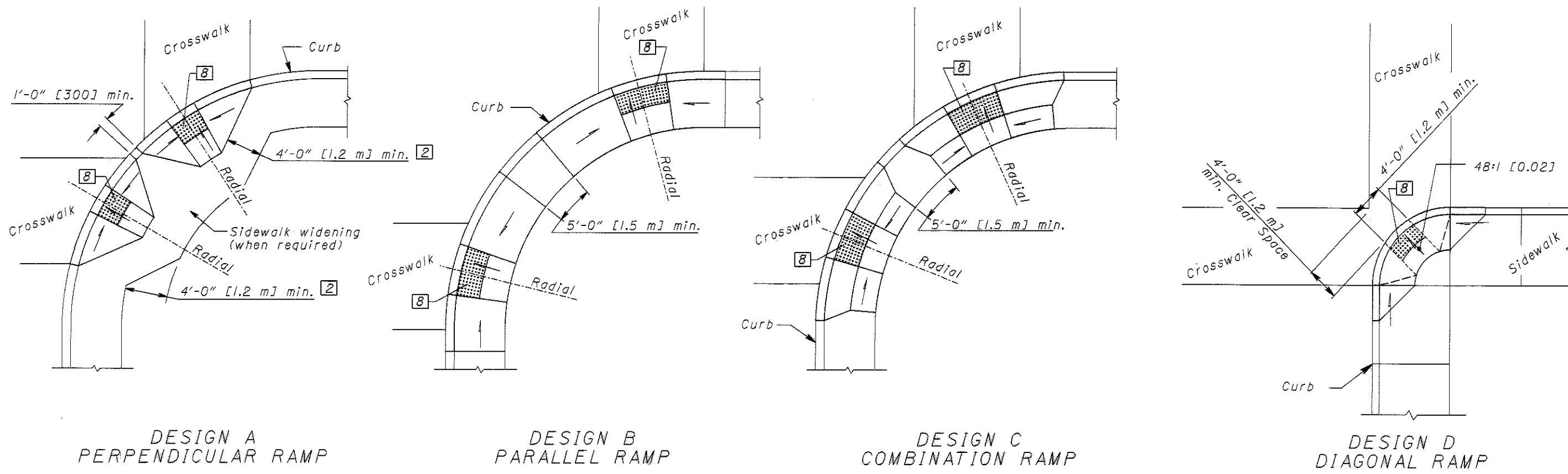
$$B = C / 0.083$$

$$C = [\text{Curb ht.} + A(S_S)] - [(A-D)S_R + D(0.02)]$$



See Sht. 3/3 for SECTION B-B
PARALLEL CURB RAMP DETAIL (SINGLE)

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76
MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31



DESIGN A
PERPENDICULAR RAMP

DESIGN B
PARALLEL RAMP

DESIGN C
COMBINATION RAMP

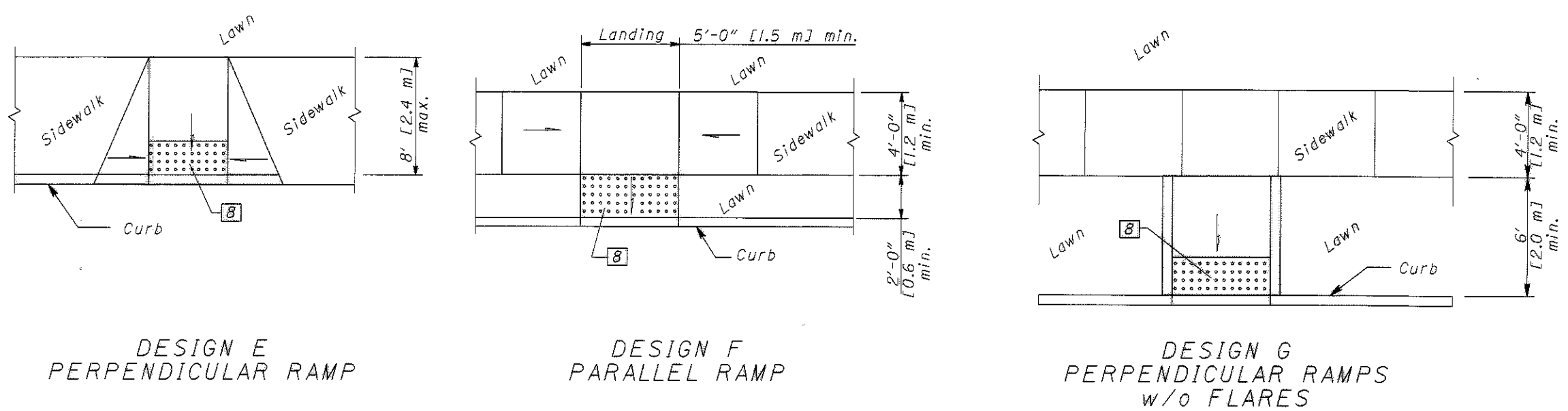
DESIGN D
DIAGONAL RAMP

CORNER CURB RAMP DESIGNS

(See Curb Ramp Details on Sht. 1/3 for additional requirements.)

For LEGEND, See sheet 1.

Use in existing walks only and when site constraints prohibit other designs. The diagonal ramp may be perpendicular, parallel or combination. Avoid using where curb radii are less than 20'-0" [6.0 m].



DESIGN E
PERPENDICULAR RAMP

DESIGN F
PARALLEL RAMP

DESIGN G
PERPENDICULAR RAMPS
w/o FLARES

MID BLOCK CURB RAMP DESIGNS

(See Curb Ramp Details on Sht. 1/3 for additional requirements.)

MUS-719-0.00
MUS-719-0.04
MUS-555-11.28
MUS-60-16.76

MUS-22-0.00
MUS-22-9.77
MUS-22D-0.00
MUS-146-15.31

NOTES

SURFACE TEXTURE: Texture of concrete surfaces shall be obtained by coarse brooming transverse to the ramp slopes and shall be rougher than adjacent walk.

TRUNCATED DOMES: Install detectable warnings (truncated domes) for a distance of 24" [610] from the back of the curb for the entire width of the ramp opening as shown on details on Sheet 1.

Pavers will meet ASTM C 902 Class SX, Type I, or C 936, or C 1272 Type R.

Acceptable manufacturers and products are:

- Whitacre-Greer Fireproofing Company, 1400 S. Mahoning Ave, Alliance, OH, 44601, (800) WG PAVER ADA Paver, 4"x8"x2-1/4", Clear Red (Rustic) #30.

- Hanover Architectural Products, 240 Bender Rd., Hanover, PA. 17331, (717) 637-0500 Detectable Warning Paver, 12"x12"x2", or 24"x24"x2", Red or Quarry Red.

- Endicott Clay Products, PO Box 17, Fairbury, NE, 68352, (402) 729-5804 Handicap Detectable Warning Paver, 4"x8"x2-1/4", Red Blend.

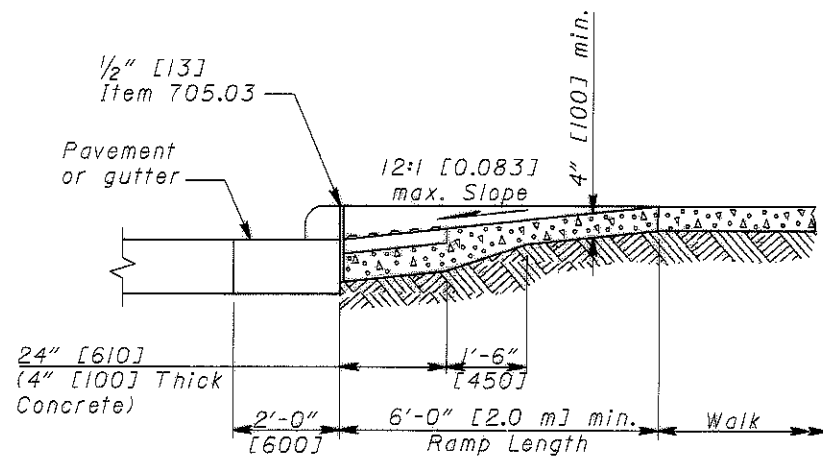
Pavers will be laid on top of a 4" [100] unreinforced concrete base. Setting bed and joints to be mortared in accordance with manufacturer's instruction, or with a maximum 1/2" [13] thick bed of latex modified cement mortar. Mortar joints to a width not greater than 3/32" [4] and not less than 1/16" [1.5]. Pavers shall not be directly touching each other unless they have spacing bars.

Mortared joints are to be flush with top surface and struck so as to give a smooth surface. Pavers shall be laid such that joints are level with adjoining joints so as to provide a smooth transition from brick to brick and brick to concrete surface.

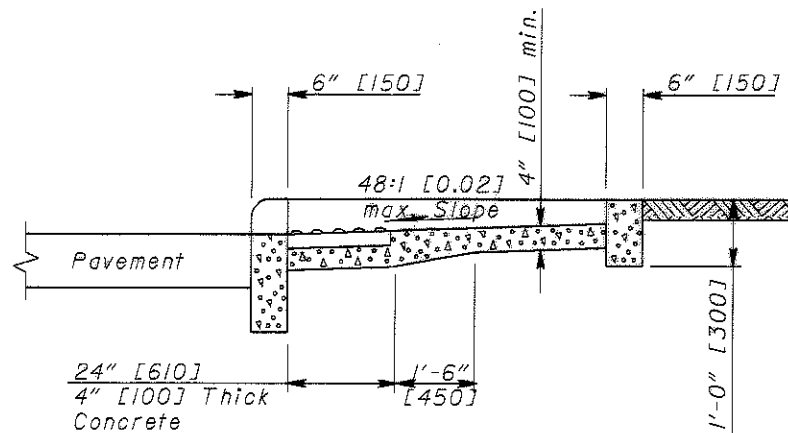
The surface of any two adjacent units should not differ by more than 1/8" [3] in height. Bricks shall be placed in a running bond pattern. Face of all brick shall be clean of cement and protected so as to avoid chipping during construction.

EXPANSION JOINTS: shall be provided in the curb ramp as extensions of walk joints and consistent with Item 608.03 requirements for a new concrete walk. A 1/2" [13] Item 705.03 expansion joint filler shall be provided around the edge of ramps built in existing concrete walk. Lines shown on this drawing indicate the ramp edge and slope changes and are not necessarily joint lines.

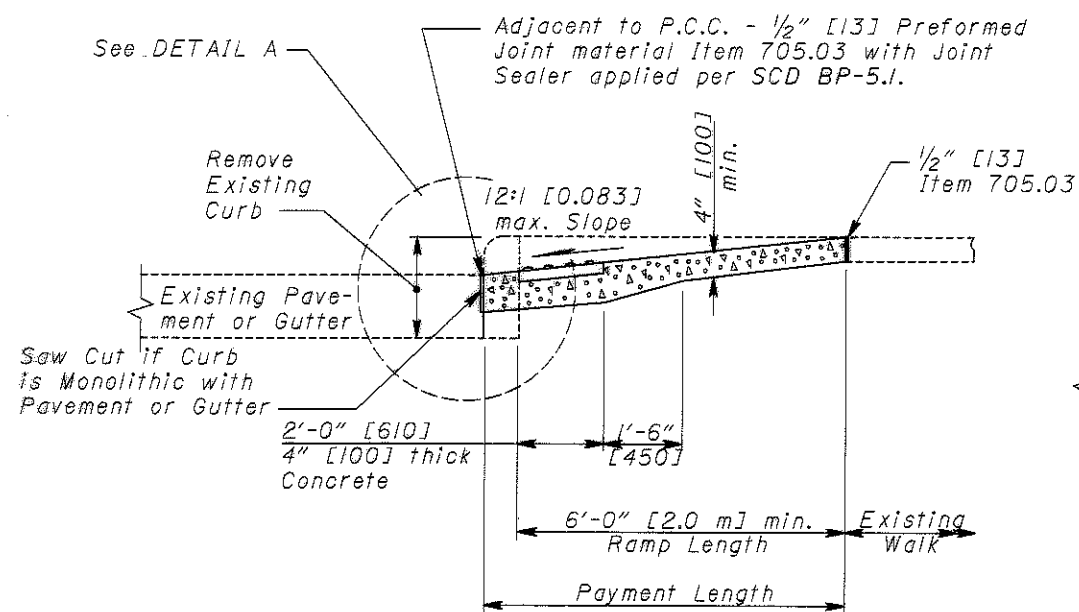
PAYMENT: Walk and curb, Items 608 and 609, shall be measured through the curb ramp area paid for under their respective items. Item 608 - Curb Ramp, As Per Plan, Each constructed in new curb and walk shall include the cost of any additional materials and installation (including truncated domes), grading, forming and finishing. Item 608 - Curb Ramp, As Per Plan, Square Foot [Meter], constructed in existing curb and walk shall include the cost of furnishing and installing all materials (including truncated domes), grading, forming, and finishing of the curb and walk of the curb ramp. Removal of existing curb and walk shall be paid for under Item 202.



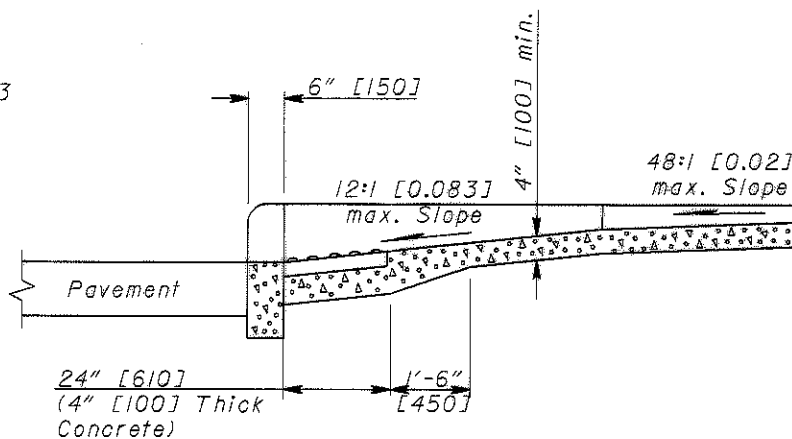
**SECTION A-A
NORMAL DETAIL**
See Sheet 1 of 3.
(Gutter shown)



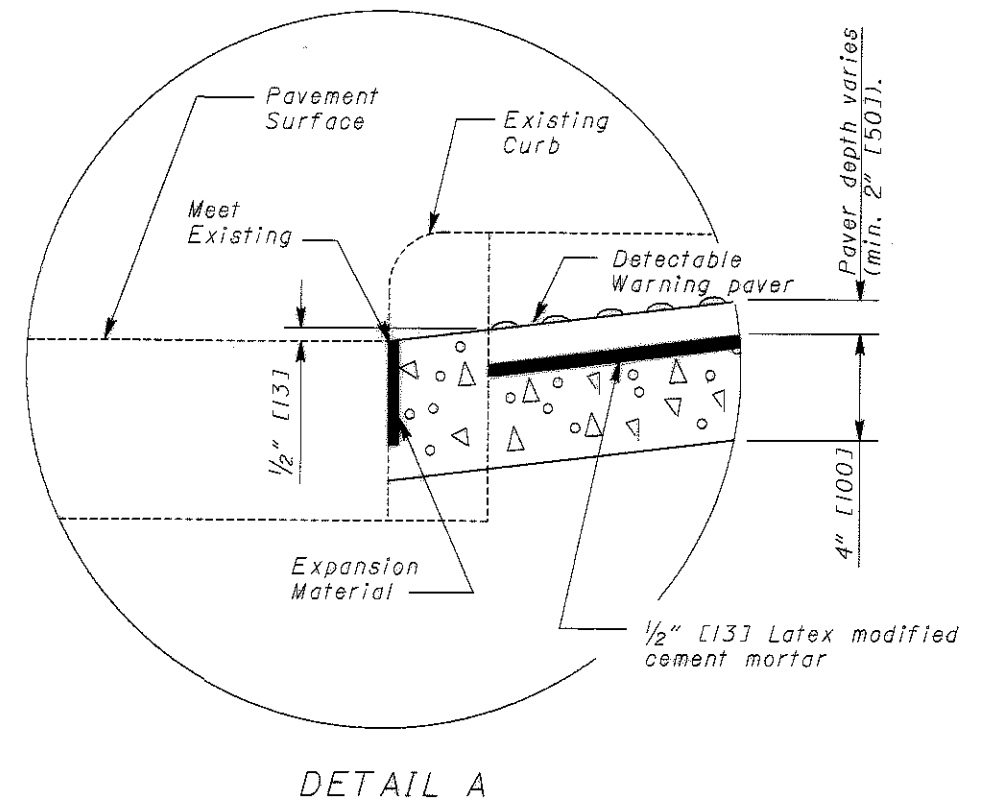
SECTION B-B
See Sheet 1 of 3.



**SECTION A-A
EXISTING WALK DETAIL**
See Sheet 1 of 3.



SECTION C-C
See Sheet 1 of 3.



DETAIL A

LOCATION 1 - SHEET TOTALS

LOCATION 1 - SHEET TOTALS												BIKE LANE	ITEM	ITEM EXT. NO.	LOCATION 1 TOTALS	UNIT	DESCRIPTION		
10	11	12	13	17	20	22	24	27	39	56	57								
578						17618	2655	265						202	23500	21116	SQ.YD.	WEARING COURSE REMOVED	
									282					202	30000	282	SQ.FT.	WALK REMOVED	
									112					202	32000	112	FT	CURB REMOVED	
		33898												33898	32001	33898	FT	CURB REMOVED, AS PER PLAN	
3713														202	54100	3713	EACH	RAISED PAVEMENT MARKERS REMOVED FOR STORAGE	
								450						202	38000	450	FT	GUARDRAIL REMOVED	
								2						202	42000	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A	
								9						202	11301	9	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE	
								62.5						202	38500	62.5	FT	BRIDGE RAILING REMOVED	
		5164	33					35						5164	10000	5232	CU. YD.	EXCAVATION	
								14						203	20000	14	CU.YD.	EMBANKMENT	
			119					42						204	10000	161	SQ.YD.	SUBGRADE COMPACTION	
	1380													253	01001	1380	SQ.YD.	PAVEMENT REPAIR, AS PER PLAN	
					411540	176584								254	01001	588124	SQ.YD.	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	
		5099	26.4											5099	301	46000	5125.4	CU.YD.	ASPHALT CONCRETE BASE, PG 64-22
								7						304	20000	7	CU.YD.	AGGREGATE BASE	
			9	33491	7419	1393	200							1852	407	10000	42512	GALLON	TACK COAT
			6	14696	2558	62	124	13						1235	407	14000	17459	GALLON	TACK COAT FOR INTERMEDIATE COURSE
							3							407	13900	3	GALLON	TACK COAT, 702.13	
	191744													407	98000	191744	FT	TACK COAT MISC.: FOR LONGITUDINAL JOINT	
	21278													408	10001	21278	GALLON	PRIME COAT, AS PER PLAN	
				9370	2323	195	12							446	50000	11900	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1H	
	55	500	3.3	8164	1421	35	67							686	448	46020	10245.3	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22
							2	13						448	46050	15	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22	
	105		3.3	8164	1421	6971	69	9						686	448	47020	16742.3	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
								1804						509	10000	1804	POUND	EPOXY COATED REINFORCING STEEL	
								74						510	10000	74	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
								10						511	34400	10	CU YD	CLASS S CONCRETE, SUPERSTRUCTURE	
								265						512	33010	265	SQ YD	TYPE 3 WATERPROOFING	
							210							516	31011	475	FT	2" DEEP JOINT SEALER, AS PER PLAN	
								67.91						517	70001	67.91	FT	TWIN STEEL TUBE, AS PER PLAN	

LOCATION SUB-SUMMARY

MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-220-0.00
 MUS-146-15.31

m022001.mis 2-6-04

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LOCATION 1 - SHEET TOTALS

LOCATION 1 - SHEET TOTALS													ITEM	ITEM EXT. NO.	LOCATION 1 TOTALS	UNIT	DESCRIPTION
10	13	14	17	20	24	35	39	56	57	62							
					58								SPECIAL 51822300	58	LIN FT	STEEL DRIP STRIP	
					42								526 10001	42	SQ YD	REINFORCED CONCRETE APPROACH SLAB (T=12"), AS PER PLAN	
					450								606 13000	450	FT	GUARDRAIL, TYPE 5	
					4								606 26100	4	EACH	ANCHOR ASSEMBLY, TYPE E	
					4								606 35140	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4	
					650								SPECIAL 60650000	650	FT	RESHAPING BERM	
							282						608 52001	282	SQ.FT.	CURB RAMP, AS PER PLAN	
245													614 12460	245	EACH	WORK ZONE MARKING SIGN	
9													614 13000	9	CU.YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
					10								614 13300	10	EACH	BARRIER REFLECTOR, TYPE B	
			43.80										614 21400	43.80	MILE	WORK ZONE CENTER LINE, CLASS II	
				2955									617 10101	2955	CU.YD.	COMPACTED AGGREGATE, TYPE A, AS PER PLAN	
								3681					621 00200	3681	EACH	RPM, INSTALLATION ONLY	
					160								622 40030	160	FT	PORTABLE CONCRETE BARRIER, 50"	
							48.24						642 00100	48.24	MILE	EDGE LINE, TYPE I	
							14.99						642 00300	14.99	MILE	CENTER LINE, TYPE I	
8													642 01604	8	EACH	BIKE LANE SYMBOL MARKING, TYPE 2	
							6.38						644 00100	6.38	MILE	EDGE LINE	
							13.49						644 00200	13.49	MILE	LANE LINE	
							12.57						644 00300	12.57	MILE	CENTER LINE	
	139				2098								644 00400	2237	FT	CHANNELIZING LINE	
					2313								644 00500	2313	FT	STOP LINE	
					1990								644 00600	1990	FT	CROSSWALK LINE	
					3296								644 00700	3296	FT	TRANSVERSE LINE	
					162								644 00900	162	SQ.FT.	ISLAND MARKING	
					2								644 01100	2	EACH	SCHOOL SYMBOL MARKING, 72"	
	2				32								644 01300	34	EACH	LANE ARROW	
					2								644 01400	2	EACH	WORD ON PAVEMENT, 72", "ONLY"	
	1				12								644 01410	13	EACH	WORD ON PAVEMENT, 96", "ONLY"	
		1											SPECIAL 69050100	1	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	
		1											SPECIAL 69050200	1	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE	

LOCATION SUB-SUMMARY

MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-220-0.00
 MUS-146-15.31

m02200lb.mls 2-6-04

LOCATION 2 - SHEET TOTALS

LOCATION 2 - SHEET TOTALS										ITEM	ITEM EXT. NO.	LOCATION 2 TOTALS	UNIT	DESCRIPTION	
10	11	18	23	24	35	45	56	57							
			2940	87							202	23500	3027	SQ.YD.	WEARING COURSE REMOVED
						4974					202	30000	4974	SQ.FT.	WALK REMOVED
						1357					202	32000	1357	FT	CURB REMOVED
	1120										253	01001	1120	SQ.YD.	PAVEMENT REPAIR, AS PER PLAN
		66860									254	01001	66860	SQ.YD.	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
		5015	222	7							407	10000	5244	GALLON	TACK COAT
											407	14000		GALLON	TACK COAT FOR INTERMEDIATE COURSE
	32313										407	98000	32313	FT	TACK COAT MISC.: FOR LONGITUDINAL JOINT
											408	10001		GALLON	PRIME COAT, AS PER PLAN
		3250	143	4							446	50000	3397	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE IH
						4974					608	52001	4974	SQ.FT.	CURB RAMP, AS PER PLAN
28											614	12460	28	EACH	WORK ZONE MARKING SIGN
	3.26										614	21400	3.26	MILE	WORK ZONE CENTER LINE, CLASS II
4											614	13000	4	CU.YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
											617	10101		CU.YD.	COMPACTED AGGREGATE, TYPE A, AS PER PLAN
							1.38				644	00200	1.38	MILE	LANE LINE
							3.41				644	00300	3.41	MILE	CENTER LINE
					200						644	00400	200	FT	CHANNELIZING LINE
					320						644	00500	320	FT	STOP LINE
					1374						644	00600	1374	FT	CROSSWALK LINE
					2						644	01000	2	EACH	RAILROAD SYMBOL MARKING
					4						644	01300	4	EACH	LANE ARROW
					3						644	01410	3	EACH	WORD ON PAVEMENT, 96", "ONLY"

CALCULATED LINES CHECKED BY
 LOCATION SUB-SUMMARY
 MUS-22-0-0.00
 MUS-719-0-04
 MUS-22-9-77
 MUS-220-0-00
 MUS-146-15.31
 MUS-555-11.28
 MUS-60-16.76

M022002.mis 2-09-04

LOCATION 3 - SHEET TOTALS

LOCATION 3 - SHEET TOTALS													ITEM	ITEM EXT. NO.	LOCATION 3 TOTALS	UNIT	DESCRIPTION
10	11	18	56														
		4682											254	01001	4682	SQ.YD.	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
		351											407	10000	351	GALLON	TACK COAT
													407	14000		GALLON	TACK COAT FOR INTERMEDIATE COURSE
	1109												407	98000	1109	FT	TACK COAT MISC.: FOR LONGITUDINAL JOINT
		228											446	50000	228	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE IH
													614	12460		EACH	WORK ZONE MARKING SIGN
1.2													614	13000	1.2	CU.YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
		0.21											614	21400	0.21	MILE	WORK ZONE CENTER LINE, CLASS II
			0.21										644	00300	0.21	MILE	CENTER LINE

m022003.mis 2-6-04

CALCULATED LINES CHECKED BY
 LOCATION SUB-SUMMARY
 MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-220-0.00
 MUS-146-15.31



LOCATION 4 - SHEET TOTALS

LOCATION 4 - SHEET TOTALS														ITEM	ITEM EXT. NO.	LOCATION 4 TOTALS	UNIT	DESCRIPTION
10	11	18	49	56														
														202	23500		SQ.YD.	WEARING COURSE REMOVED
			98											202	30000	98	SQ.FT.	WALK REMOVED
			168											202	32000	168	FT	CURB REMOVED
	200													253	01001	200	SQ.YD.	PAVEMENT REPAIR, AS PER PLAN
		13706												254	01001	13706	SQ.YD.	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
			1028											407	10000	1028	GALLON	TACK COAT
														407	14000		GALLON	TACK COAT FOR INTERMEDIATE COURSE
	4330													407	98000	4330	FT	TACK COAT MISC.: FOR LONGITUDINAL JOINT
														408	10001		GALLON	PRIME COAT, AS PER PLAN
		666												446	50000	666	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE IH
			98											608	52001	98	SQ.FT.	CURB RAMP, AS PER PLAN
24														614	12460	24	EACH	WORK ZONE MARKING SIGN
2														614	13000	2	CU.YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
		0.82												614	21400	0.82	MILE	WORK ZONE CENTER LINE, CLASS II
				0.82										644	00300	0.82	MILE	CENTER LINE

LOCATION SUB-SUMMARY

m022004.mls 2-6-04

MUS-22-0-00
 MUS-719-0.04
 MUS-719-9.77
 MUS-22D-0.00
 MUS-146-15.31
 MUS-719-0.00
 MUS-555-11.28
 MUS-60-16.76

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LOCATION 6 - SHEET TOTALS

LOCATION 6 - SHEET TOTALS													ITEM	ITEM EXT. NO.	LOCATION 6 TOTALS	UNIT	DESCRIPTION
II	19	56	57														
													253	01001		SQ.YD.	PAVEMENT REPAIR, AS PER PLAN
	2132												254	01001	2132	SQ.YD.	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
	159												407	10000	159	GALLON	TACK COAT
	107												407	14000	107	GALLON	TACK COAT FOR INTERMEDIATE COURSE
1107													407	98000	1107	FT	TACK COAT MISC.: FOR LONGITUDINAL JOINT
													408	10001		GALLON	PRIME COAT, AS PER PLAN
	104												446	46050	104	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 76-22
	89												446	50000	89	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE IH
													614	12460		EACH	WORK ZONE MARKING SIGN
													614	13000		CU.YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
	0.14												614	21400	0.14	MILE	WORK ZONE CENTER LINE, CLASS II
		0.14											644	00100	0.14	MILE	EDGE LINE
			0.14										644	00200	0.14	MILE	LANE LINE
		0.07											644	00300	0.07	MILE	CENTER LINE

CALCULATED LINE CHECKED JC
 LOCATION SUB-SUMMARY
 MUS-22-0.00 MUS-719-0.00
 MUS-22-9.77 MUS-719-0.04
 MUS-220-0.00 MUS-555-11.28
 MUS-146-15.31 MUS-60-16.76

m022005.mis 2-6-04

LOCATION 7 - SHEET TOTALS

LOCATION 7 - SHEET TOTALS													ITEM	ITEM EXT. NO.	LOCATION 7 TOTALS	UNIT	DESCRIPTION
10	11	19	56	57													
													253	01001		SQ.YD.	PAVEMENT REPAIR, AS PER PLAN
		2251											254	01001	2251	SQ.YD.	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
		169											407	10000	169	GALLON	TACK COAT
		113											407	14000	113	GALLON	TACK COAT FOR INTERMEDIATE COURSE
	1266												407	98000	1266	FT	TACK COAT MISC.: FOR LONGITUDINAL JOINT
		110											446	46050	110	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 76-22
		94											446	50000	94	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1H
													614	12460		EACH	WORK ZONE MARKING SIGN
1.5													614	13000	1.5	CU.YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
		0.16											614	21400	0.16	MILE	WORK ZONE CENTER LINE, CLASS II
			0.16										644	00100	0.16	MILE	EDGE LINE
				0.16									644	00200	0.16	MILE	LANE LINE
			0.08										644	00300	0.08	MILE	CENTER LINE

CALCULATED LINE CHECKED JC
 LOCATION SUB-SUMMARY
 MUS-22-0-0.00
 MUS-22-9-77
 MUS-220-0-0.00
 MUS-146-15.31
 MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76

m022005.mls 2-6-04

LOCATION 8 - SHEET TOTALS

LOCATION 8 - SHEET TOTALS													ITEM	ITEM EXT. NO.	LOCATION 8 TOTALS	UNIT	DESCRIPTION
10	11	19	55	56	57												
													202	23500		SQ.YD.	WEARING COURSE REMOVED
			2310										202	30000	2310	SQ.FT.	WALK REMOVED
			595										202	32000	595	FT	CURB REMOVED
													253	01001		SQ.YD.	PAVEMENT REPAIR, AS PER PLAN
		35478											254	01001	35478	SQ.YD.	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
			2661										407	10000	2661	GALLON	TACK COAT
													407	14000		GALLON	TACK COAT FOR INTERMEDIATE COURSE
		24712											407	98000	24712	FT	TACK COAT MISC.: FOR LONGITUDINAL JOINT
				1725									446	50000	1725	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE IH
													608	52001	2310	SQ.FT.	CURB RAMP, AS PER PLAN
40													614	12460	40	EACH	WORK ZONE MARKING SIGN
6													614	13000	6	CU.YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
													614	21400		MILE	WORK ZONE CENTER LINE, CLASS II
					2.26								644	00100	2.26	MILE	EDGE LINE
						2.26							644	00200	2.26	MILE	LANE LINE

CALCULATED LINES CHECKED BY
 LOCATION SUB-SUMMARY
 MUS-22-0-0.00
 MUS-719-0-04
 MUS-22-9-77
 MUS-555-11.28
 MUS-146-15.31
 MUS-60-16.76
 71
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m022004.mis 2-6-04

LOCATION TOTALS								BIKE LANE	URBAN PAVING	100% CITY	STATE	ITEM	ITEM EXT. NO.	GRAND TOTALS	UNIT	DESCRIPTION
1	2	3	4	5	6	7	8									
21116	3027								3027		21116	202	23500	24143	SQ.YD.	WEARING COURSE REMOVED
282	4974		98				2310			7382	282	202	30000	7664	SQ.FT.	WALK REMOVED
112	1357		168				595			2120	112	202	32000	2232	FT	CURB REMOVED
33898								33898				202	32001	33898	FT	CURB REMOVED, AS PER PLAN
3713											3713	202	54100	3713	EACH	RAISED PAVEMENT MARKERS REMOVED FOR STORAGE
450											450	202	38000	450	FT	GUARDRAIL REMOVED
2											2	202	42000	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A
9											9	202	11301	9	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE
62.5											62.5	202	38500	62.5	FT	BRIDGE RAILING REMOVED
5232								5164			68	203	10000	5232	CU. YD.	EXCAVATION
14											14	203	20000	14	CU.YD.	EMBANKMENT
161											161	204	10000	161	SQ.YD.	SUBGRADE COMPACTION
1380	1120		200	125					1445		1380	253	01001	2825	SQ.YD.	PAVEMENT REPAIR, AS PER PLAN
588124	66860	4682	13706	16472	2132	2251	35478		125109		604596	254	01001	729705	SQ.YD.	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
5126								5099			27	301	46000	5126	CU.YD.	ASPHALT CONCRETE BASE, PG 64-22
7											7	304	20000	7	CU.YD.	AGGREGATE BASE
42512	5244	351	1028	1235	159	169	2661	1852	9612		41895	407	10000	53359	GALLON	TACK COAT
17459				824	107	113		1235	220		17048	407	14000	18503	GALLON	TACK COAT FOR INTERMEDIATE COURSE
3											3	407	13900	3	GALLON	TACK COAT, 702.13
191744	32313	1109	4330	8553	1107	1266	24712		64837		200297	407	98000	265134	FT	TACK COAT MISC.: FOR LONGITUDINAL JOINT
21278											21278	408	10001	21278	GALLON	PRIME COAT, AS PER PLAN
				801	104	110			214		801	446	46030	1015	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 76-22
11900	3397	228	666	686	89	94	1725		6199		12586	446	50000	18785	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1H
10246								686			9560	448	46020	10246	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22
15											15	448	46050	15	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22
16743								686			16057	448	47020	16743	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
1804											1804	509	10000	1804	POUND	EPOXY COATED REINFORCING STEEL
74											74	510	10000	74	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
10											10	511	34400	10	CU YD	CLASS S CONCRETE, SUPERSTRUCTURE
265											265	512	33010	265	SQ YD	TYPE 3 WATERPROOFING
475											475	516	31011	475	FT	2" DEEP JOINT SEALER, AS PER PLAN
67.91											67.91	517	70001	67.91	FT	TWIN STEEL TUBE, AS PER PLAN
																RAILING

GENERAL SUMMARY

MUS-719-0.00
 MUS-719-0.04
 MUS-555-11.28
 MUS-60-16.76
 MUS-22-0.00
 MUS-22-9.77
 MUS-22D-0.00
 MUS-146-15.31

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m022001.mgs 2-6-04

m022002.mgs 2-6-04

LOCATION TOTALS								BIKE LANE	URBAN PAVING	100% CITY	STATE	ITEM	ITEM EXT. NO.	GRAND TOTALS	UNIT	DESCRIPTION	
1	2	3	4	5	6	7	8										
58											58	SPECIAL	51822300	58	LIN FT	STEEL DRIP STRIP	
.42											42	526	10001	42	SQ YD	REINFORCED CONCRETE APPROACH SLAB (T=12"), AS PER PLAN	
450											450	606	13000	450	FT	GUARDRAIL, TYPE 5	
4											4	606	26100	4	EACH	ANCHOR ASSEMBLY, TYPE E	
4											4	606	35140	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4	
650											650	SPECIAL	60650000	650	FT	RESHAPING BERM	
282	4974		98				2310				7382	282	608	52001	7664	SQ.FT.	CURB RAMP, AS PER PLAN
245	28		24				40	92			245	614	12460	337	EACH	WORK ZONE MARKING SIGN	
9	4	1.2	2	3			1.5	6	14.7		12	614	13000	26.7	CU.YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
10											10	614	13300	10	EACH	BARRIER REFLECTOR, TYPE B	
43.80	3.26	0.21	0.82	1.08	0.14	0.16		4.59			44.88	614	21400	49.47	MILE	WORK ZONE CENTER LINE, CLASS II	
2955											2955	617	10101	2955	CU.YD.	COMPACTED AGGREGATE, TYPE A, AS PER PLAN	
3681											3681	621	00200	3681	EACH	RPM, INSTALLATION ONLY	
160											160	622	40030	160	FT	PORTABLE CONCRETE BARRIER, 50"	
48.24								8.42			39.82	642	00100	48.24	MILE	EDGE LINE, TYPE 1	
14.99											14.99	642	00300	14.99	MILE	CENTER LINE, TYPE 1	
8								8				642	01604	8	EACH	BIKE LANE SYMBOL MARKING, TYPE 2	
6.38				1.08	0.14	0.16	2.26	2.56			7.46	644	00100	10.02	MILE	EDGE LINE	
13.49	1.38			1.08	0.14	0.16	2.26	3.94			14.57	644	00200	18.51	MILE	LANE LINE	
12.57	3.41	0.21	0.82	0.54	0.07	0.08		4.59			13.11	644	00300	17.70	MILE	CENTER LINE	
2237	200							200			2237	644	00400	2437	FT	CHANNELIZING LINE	
2313	320							320			2313	644	00500	2633	FT	STOP LINE	
1990	1374							1374			1990	644	00600	3364	FT	CROSSWALK LINE	
3296											3296	644	00700	3296	FT	TRANSVERSE LINE	
162											162	644	00900	162	SQ.FT.	ISLAND MARKING	
	2							2				644	01000	2	EACH	RAILROAD SYMBOL MARKING	
2											2	644	01100	2	EACH	SCHOOL SYMBOL MARKING, 72"	
34	4							4			34	644	01300	38	EACH	LANE ARROW	
2											2	644	01400	2	EACH	WORD ON PAVEMENT, 72", "ONLY"	
13	3							3			13	644	01410	16	EACH	WORD ON PAVEMENT, 96", "ONLY"	
1											1	SPECIAL	69050100	1	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	
1											1	SPECIAL	69050200	1	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE	
												614	11000	LUMP		MAINTAINING TRAFFIC	
												619	16000	2	MONTH	FIELD OFFICE, TYPE A	
												623	10000	LUMP		CONSTRUCTION LAYOUT STAKES	
												624	10000	LUMP		MOBILIZATION	

GENERAL SUMMARY

MUS-22-0-0.00
 MUS-719-0-0.04
 MUS-719-9-7.77
 MUS-555-H-28
 MUS-60-16-76
 MUS-220-0-0.00
 MUS-146-15.31

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