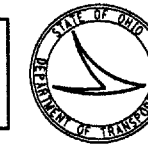


STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

DCFR



metric units

**LOR-90-15.257**  
**LOR-2-15.287**

LORAIN COUNTY

*AS FILED*

**PROJECT DESCRIPTION**

UPGRADING OF THE SIGNS ON  
I.R. 90, S.R. 2 AND SIDEROADS.

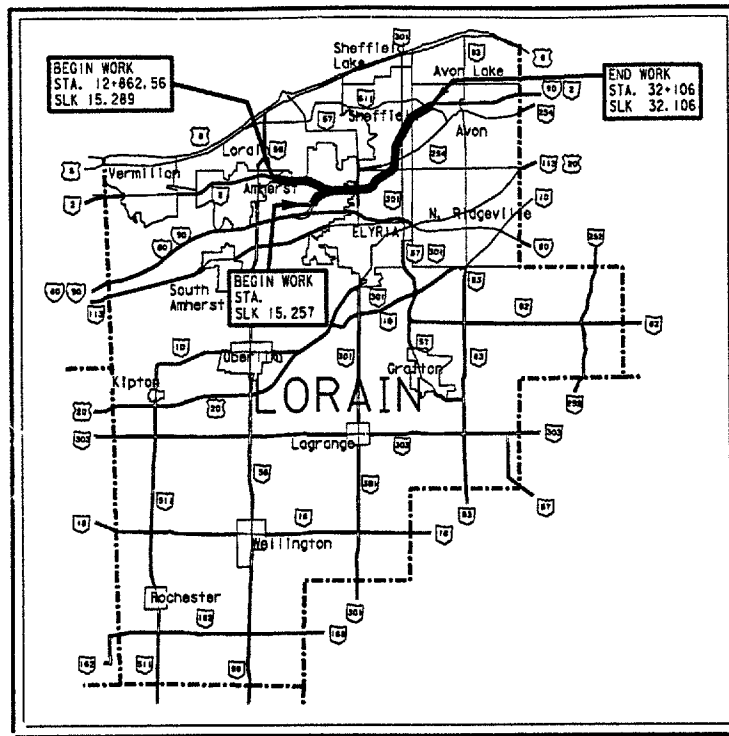
**LIMITED ACCESS**

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

**1995 SPECIFICATIONS**

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

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



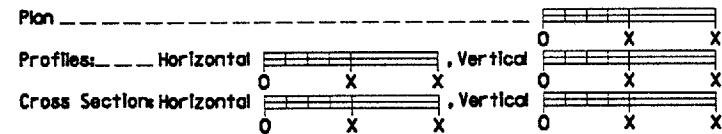
LONGITUDE.....82°11'51"  
LATITUDE.....41°24'53"

**LOCATION MAP**



Portion to be Improved \_\_\_\_\_  
State & Federal Routes \_\_\_\_\_  
Other Roads \_\_\_\_\_

**SCALES**



**DESIGN DESIGNATION**  
NONE REQUIRED

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

PLAN PREPARED BY:

OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT 3  
ASHLAND, OHIO

**LINE DATA**

NET PROJECT LENGHT	= 0.00 LIN. M
ADD FOR WORK S.R. 2 STA. 13+021 TO STA. 18+360.54	= 5,339.54 LIN. M
ADD FOR WORK L.R. 90 STA. 18+360.54 TO STA. 19+600.16 (BK)	= 1,239.62 LIN. M
STA. 20+444.16 (AH) TO STA. 32+106	= 11,661.84 LIN. M
ADD FOR WORK MIDDLE RIDGE RD/BROADWAY AVE STA. 1+042 TO STA. 2+054	= 1012 LIN. M
ADD FOR WORK OHIO TURNPK STA. 15+925 TO STA. 18+360.54	= 2,435.54 LIN. M
ADD FOR WORK S.R. 254 STA. 2+200 TO STA. 3+500	= 1,300 LIN. M
ADD FOR WORK S.R. 6H STA. 6+262 TO STA. 7+250	= 988 LIN. M
NET WORK LENGTH	= 23,976.54 LIN. M

**INDEX OF SHEETS**

TITLE SHEET	1
GENERAL NOTES	2-4
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SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
TC-22.10 M	2-1-94	TC-61.10 M	3-31-94		
TC-22.20 M	9-1-92	MT-35.10M	1-3-95		
TC-41.10 M	3-31-94	MT-35.11M	1-3-95		
TC-41.20 M	7-1-94	MT-95.30 M	4-25-94		
TC-41.40 M	3-31-94	MT-98.12M	6-24-93		
TC-41.41 M	3-31-94	MT-98.13M	6-24-93		
TC-41.50 M	7-1-94	MT-98.14M	6-24-93		
TC-42.10 M	3-31-94	MT-98.15M	6-24-93		
TC-42.20 M	3-31-94	MT-98.16M	6-24-93		
TC-51.11M	9-30-94	MT-98.17 M	4-25-94		
TC-51.12 M	3-31-94	MT-98.18 M	4-25-94		
TC-52.10 M	4-3-79	MT-105.10 M	4-25-94		
TC-52.20 M	4-3-79	MT-105.11M	4-25-94		

APPROVED James D. Maulson  
DATE 2-12-96 DISTRICT DEPUTY DIRECTOR

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO.

PID NO. 15698

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT

NONE

LOR-90-15.257  
LOR-2-15.289

## GENERAL UTILITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

### ELECTRIC:

CLEVELAND ELECTRIC ILLUMINATING CO.  
3601 RIDGE ROAD  
CLEVELAND, OHIO 44102

OHIO EDISON COMPANY  
76 SOUTH MAIN STREET  
AKRON, OHIO 44308

### GAS:

COLUMBIA GAS TRANSMISSION CORP.  
3151 LINCOLN WAY WEST  
WOOSTER, OHIO 44691

COLUMBIA GAS OF OHIO  
27121 CENTER RIDGE ROAD  
WESTLAKE, OHIO 44145

EAST OHIO GAS COMPANY  
4725 SOUTHWAY STREET SW  
CANTON, OHIO 44706

### PHONE:

ALLTEL (ELYRIA TELE. CO.)  
363 THIRD STREET  
ELYRIA, OHIO 44035

CENTURY TELEPHONE CO.  
1730 WEST 19TH STREET  
LORAIN, OHIO 44052

### WATER:

RURAL LORAIN COUNTY WATER AUTHORITY  
42401 ROUTE 303  
P.O. BOX 567  
LAGRANGE, OHIO 44050

CITY OF NORTH RIDGEVILLE  
7307 AVON BELDEN ROAD  
NORTH RIDGEVILLE, OHIO 44039

## CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEM DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF

RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

## TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS

REFERENCE TO SUPPLEMENTAL SPECIFICATIONS 857, 858, 859, 957, 958, AND 959 ON THE TRAFFIC CONTROL STANDARD DRAWINGS IN THIS PLAN SHALL BE CONSIDERED TO READ AS RESPECTIVE REFERENCES TO ITEMS 630, 631, 632, 730, 731, AND 732.

## SIGN REPLACEMENTS

WITH RESPECT TO THE REPLACEMENT OF EXISTING SIGNS THE CONTRACTOR SHALL IN NO CASE REMOVE A SIGN UNLESS THE APPLICABLE REPLACEMENT CAN BE ERECTED WITHIN THE SAME WORKING DAY.

## ITEM 630 - SIGNS, (FLAT SHEET, EXTRUSHEET), TYPE G

IN LIEU OF REQUIREMENT OF ITEM 630.04(3.), REFLECTIVE SHEETING SHALL BE TYPE G IN ACCORDANCE WITH THE REQUIREMENTS OF 730.19. PAYMENT FOR THIS ITEM SHALL BE MADE AT THE UNIT PRICE BID PER SQUARE METER FOR ITEM 630 - SIGNS, ( FLAT SHEET, EXTRUSHEET), TYPE G.

## CLEARING AND GRUBBING

CLEARING AND GRUBBING SHALL BE PERFORMED IN AREAS AS DIRECTED BY THE ENGINEER TO PROVIDE ADEQUATE CLEAR SIGHT DISTANCE TO SIGNS ERECTED AS PART OF THIS PLAN. SEE SHEET NO. 05 FOR GUIDE FOR CLEARING AND GRUBBING.

## ITEM 630 - SIGNS, FLAT SHEET, TYPE F, AS PER PLAN

THE HINGED SIGN W-68-1200 OR W-68-900 "WATCH FOR ICE ON BRIDGE" SHALL BE PROVIDED BY THE CONTRACTOR AT LOCATIONS SHOWN IN THE PLANS. SEE SHEET NO. 05 FOR NOTES AND DETAILS. IN LIEU OF THE REQUIREMENTS OF 630.04(3.), REFLECTIVE SHEETING SHALL BE TYPE F IN ACCORDANCE WITH THE REQUIREMENTS OF 730.18.

PAYMENT FOR THIS ITEM SHALL BE MADE AT THE UNIT PRICE BID PER SQUARE METER FOR ITEM 630 - SIGNS, FLAT SHEET, TYPE G, AS PER PLAN AND SHALL INCLUDE ALL LABOR, EQUIPMENT, HARDWARE, AND MATERIALS NECESSARY TO PERFORM THE WORK.

## FABRICATION OF SIGNS

IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 630.03 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS, THE CONTRACTOR SHALL SUBMIT PRIOR TO FABRICATION TWO (2) SETS OF SIGN LEGEND WORKING DRAWINGS, WHICH SHALL BE IN ACCORDANCE WITH ALL REQUIREMENTS, TO THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 3 CONSTRUCTION ENGINEER, 906 NORTH CLARK STREET, ASHLAND, OHIO, 44805, FOR APPROVAL.

## AIRWAY - HIGHWAY CLEARANCE

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE OF A PUBLIC USE AIRPORT. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE FEDERAL AVIATION ADMINISTRATION (FAA) AND TO FILE FAA FORM 7460-1 IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT PENETRATES THE NOTIFICATION SURFACE OF THE AIRPORT AS DEFINED IN PART.77 OF THE FEDERAL AVIATION REGULATIONS. IF FORM 7460-1 IS REQUIRED AS PER THE REGULATIONS, A COPY OF THE SUBMISSION AND FORM 7460-1 SHALL ALSO BE FORWARDED TO THE ODOT DIVISION OF AVIATION. NO EQUIPMENT SHALL BE MOVED TO THE JOB SITE NOR WORK COMMENCED UNTIL THE CONTRACTOR HAS: (1) ADVISED THE PROJECT ENGINEER IN WRITING THAT THROUGH COORDINATION WITH FAA IT HAS BEEN DETERMINED THAT IT WILL NOT BE NECESSARY TO FILE FORM 7460-1, OR (2) FURNISHED A COPY OF FAA'S APPROVAL AND ODOT'S DIVISION OF AVIATION PERMIT TO THE PROJECT ENGINEER.

THE CONTRACTOR IS ADVISED THAT FAA APPROVAL TYPICALLY TAKES 30 TO 90 DAYS. ALL SUBMISSIONS SHOULD BE DIRECTED TO THESE OFFICES:

THE FEDERAL AVIATION ADMINISTRATION  
GREAT LAKES REGIONAL OFFICE  
AIR TRAFFIC DIVISION AGL-530  
2300 EAST DEVON AVENUE  
DES PLAINES, ILLINOIS 60018  
(708) 294-7458

OHIO DEPARTMENT OF TRANSPORTATION  
DIVISION OF AVIATION  
2829 WEST DUBLIN-GRANVILLE ROAD  
COLUMBUS, OHIO 43235  
(614) 793-5046

**ITEM 630 - LAMINATED WOODEN BEAMS,  
BY TYPE**

REFER TO DETAIL ON PAGE 06.

- 1) LAY OUT LOCATION FOR BEAMS. REFER TO SUPPORT SPACING CHART ON STANDARD CONSTRUCTION DRAWING TC-42.10.
- 2) AUGER HOLES TO REQUIRED DEPTH. USE A 457.200 MM DIA HOLE FOR TYPE "M" (200.025 mm x 200.025 mm) BEAMS AND A 609.600 mm DIA HOLE FOR TYPE "L" (377.825 mm x 200.025 mm) BEAMS.
- 3) CUT BEAMS TO REQUIRED LENGTH AS NECESSARY.
- 4) SET AND PLUMB THE FIRST BEAM.
- 5) BACKFILL WITH SUITABLE BACKFILL MATERIAL. NORMALLY THE SOIL REMOVED FROM THE HOLE IS SUITABLE FOR BACKFILLING. AS THE HOLE IS BEING BACKFILLED, TAMP THE SOIL FIRMLY AROUND THE BEAM WITH A HYDRAULIC POLE TAMPER. THE BEAM SHOULD BE CHECKED OCCASIONALLY TO VERIFY THAT IT REMAINS PLUMB.
- 6) INSTALL THE SECOND (AND THIRD, IF NECESSARY) BEAM IN THE SAME MANNER.
- 7) ATTACH DRIVE POSTS TO THE FRONT FACE OF THE WOODEN BEAMS WITH LAG SCREWS AS PER DETAIL ON SHEET NO. 06. ONE 7.938 mm DIAMETER LAG SCREW SHOULD BE USED FOR EACH 3.048 SQUARE METERS OF SIGN. SCREWS SHOULD BE 38.100 mm TO 50.800 mm LONG. 4.763 mm PILOT HOLES ARE RECOMMENDED TO EASE INSTALLATION OF SCREWS. THE DRIVE POSTS CAN EXTEND ABOVE THE TOP OF THE WOODEN BEAMS A SMALL AMOUNT AS NECESSARY TO ACHIEVE THE REQUIRED SIGN HEIGHT AND FACILITATE LEVELING OF THE SIGN.
- 8) ATTACH SIGN USING EXTRUSHEET SIGN CLIPS.
- 9) INSTALL BREAKAWAY FEATURE AS SHOWN BY DRILLING 25.4 mm DIAMETER HOLES AND CONNECTING THE HOLES WITH A SAW CUT. A RECIPROCATING SAW WORKS WELL FOR MAKING THE SAW CUT.

PAYMENT FOR THIS ITEM SHALL BE MADE AT THE UNIT BID PER LINEAR METER AND SHALL INCLUDE BUT IS NOT LIMITED TO, WOOD STABILIZERS, LAG BOLTS, NO. 3 STEEL DRIVE POSTS, CONCRETE BLOCK, AND ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM WORK.

**ITEM SPECIAL - LAW ENFORCEMENT  
OFFICER WITH PATROL CAR**

IN ADDITION TO THE REQUIREMENTS OF 614, A UNIFORMED OFF-DUTY STATE HIGHWAY PATROLMAN OR LOCAL LAW ENFORCEMENT OFFICER AND OFFICIAL PATROL CAR WITH EMERGENCY FLASHERS OPERATING, SHALL BE PROVIDED DURING ANY SHORT DURATION CLOSING OF ROADWAY. THIS REQUIREMENT DOES NOT PRECLUDE THE CONTRACTOR'S

USE OF LAW ENFORCEMENT OFFICERS (LEO) FOR OTHER PURPOSES IN THE PROJECT AREA. HOWEVER, WHERE OTHER SUCH USAGE IS AT THE OPTION OF THE CONTRACTOR, PAYMENT FOR THE SERVICES OF THE LEOS INVOLVED SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

ARRANGEMENTS AND PAYMENTS FOR THE SERVICES OF THE LEOS WITH PATROL CARS WILL BE MADE BY THE CONTRACTOR. INFORMATION REGARDING THE LEOS MAY BE OBTAINED BY CONTACTING:

THE STATE HIGHWAY PATROL HEADQUARTERS  
660 EAST MAIN STREET  
COLUMBUS, OHIO 43205  
PHONE: (614) 466-2660

LORAIN COUNTY SHERIFF  
MURRAY RIDGE ROAD  
ELYRIA, OHIO 44035  
PHONE: (216)244-0373

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER FOR MAINTAINING TRAFFIC.

ITEM SPECIAL - LAW ENFORCEMENT OFFICER WITH PATROL  
CAR 16 HOURS

**MILE MARKER LOCATION**

THE LOCATION OF MILE MARKERS ON THE PLANS ARE APPROXIMATE AND A MORE PRECISE LOCATION WILL BE PROVIDED BY THE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST THIRTY (30) DAYS IN ADVANCE OF THE PLANNED DATE OF MILE MARKER INSTALLATION. THE ENGINEER WILL CONTACT THE BUREAU OF TECHNICAL SERVICES WHICH WILL LOCATE THE LONGITUDINAL POSITION OF MILE MARKERS BY MEANS OF A PAINT MARK ON THE PAVEMENT EDGE. ALTERNATE MARKS WILL NOT BE PROVIDED ON DIVIDED HIGHWAYS AND THE CONTRACTOR SHALL SET MARKERS FOR THE OPPOSITE ROADWAY ACROSS FROM THE PROVIDED MARK. ANY EXISTING DELINEATORS FALLING WITHIN 50 FEET OF A MILE MARKER SHALL BE REMOVED. REMOVAL OF ANY DELINEATORS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201 - CLEARING AND GRUBBING.

**HIGHWAY LIGHTING**

THERE IS HIGHWAY LIGHTING ON THIS PROJECT. PLEASE CALL THE DISTRICT 3 DISTRICT TRAFFIC ENGINEER AT (800) 276-4188 TWO (2) WEEKS PRIOR TO CONSTRUCTION FOR THE LOCATION OF LIGHTING UTILITIES.

**ENGLISH/METRIC REFERENCES**

SUB-SUMMARY REFERENCES FOR S4 X 7.7, W10 X 12, W10 X 22 AND W12 X 30 BEAM GROUND MOUNTED SUPPORTS SHALL BE CONSIDERED AS S100 X 11.5, W250 X 17.9, W250 X 32.7 AND W310 X 44.5 RESPECTIVELY. GENERAL SUMMARY REFERENCES ARE SHOW IN METRIC DESCRIPTIONS.

LOR-90-15.257

CALCULATED BY:  
CHECKED BY:

GENERAL NOTES

LOR-90-15.257

**ITEM 614 - MAINTAINING TRAFFIC**

THE CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE OF OPERATIONS TO THE DISTRICT DEPUTY DIRECTOR AND RECEIVE APPROVAL BEFORE WORK IS STARTED ON THE PROJECT.

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

ON HOLIDAYS AND THE FOLLOWING WEEKENDS NO WORK SHALL BE PERFORMED ON THIS PROJECT. ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL WEEKENDS.

ALL WEEKENDS FROM JUNE 30 THRU LABOR DAY, PLUS  
 MOTHERS DAY  
 MEMORIAL DAY  
 LABOR DAY  
 FOURTH OF JULY  
 EASTER

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD.

DAY OF THE WEEK	TIME ALL LANES MUST BE OPEN TO TRAFFIC
WEEKENDS & WEEKEND HOLIDAY	12:00N FRIDAY THRU 12:00N MONDAY
MONDAY	12:00N FRIDAY THRU 12:00N TUESDAY
TUESDAY	12:00N MONDAY THRU 12:00N WEDNESDAY
WEDNESDAY	12:00N TUESDAY THRU 12:00N THURSDAY
THURSDAY	12:00N WEDNESDAY THRU 12:00N MONDAY
FRIDAY	12:00N THURSDAY THRU 12:00N MONDAY

PROCEDURES FOR MAINTAINING TRAFFIC SHALL BE IN COMPLIANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, LATEST REVISION, AND STANDARD CONSTRUCTION DRAWINGS AS LISTED ON THE TITLE SHEET. WORK ON OR BEYOND THE SHOULDER SHALL BE IN ACCORDANCE WITH PLATES C-11 THRU C-13, OMUTCD.

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

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

**ITEM 630 - SIGNING, MISC.: GALVANIZED STEEL BOLT RETAINER PLATE, APP**

THE CONTRACTOR SHALL, AT THE DESIGNATED SIGN SUPPORTS, MECHANICALLY REMOVE THE EXISTING SLIP BASE BOLTS AND FURNISH AND INSTALL A NEW GALVANIZED STEEL BOLT RETAINER PLATE AND NEW BOLTS, WASHERS, NUTS ACCORDING TO TC-41.10M.

AT LEAST FOUR (4) WEEKS FOLLOWING THE ERECTION OF SIGNS ON BREAKAWAY BEAMS, THE BREAKAWAY FEATURE IS TO BE INSPECTED BY THE CONTRACTOR FOR EVIDENCE OF SHIFTING OR LOOSE FASTENERS. ALL LOOSE FASTENERS ARE TO BE RE-TORQUED TO SPECIFIED VALUES. BASE PLATE FASTENERS ARE TO BE LOOSENED AND RE-TORQUED EVEN IF NO SHIFTING OR LOOSENESS IS DETECTED. HOWEVER, IF THE BASE PLATE CONNECTION WAS MADE WITH TORQUE LIMITING NUTS, RE-TORQUING WILL ONLY BE REQUIRED IF LOOSENESS CAN BE DETECTED. RE-TORQUED CONVENTIONAL NUTS AT THIS TIME ARE TO HAVE ANAEROBIC ADHESIVE APPLIED OR, AS AN ALTERNATE, NEW TORQUE LIMITING NUTS OF THE PROPER RANGE MAY BE USED.

GALVANIZED STEEL BOLT RETAINER PLATES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, INCLUDING BOLTS, WASHERS, NUTS, ETC., COMPLETE IN PLACE AT THE FOLLOWING LOCATIONS:

SIGN NO.	STATION	W10 X 12	W10 X 22
4	13+818 RT.		2
93	30+240 RT.		1
122	23+009 RT.	2	
130	22+009 RT.		2
166	16+151 RT.		2

PAYMENT WILL BE MADE UNDER:

TOTAL	ITEM	EXT	UNIT	DESCRIPTION
9	630	97700	EACH	SIGNING MISC.: GALVANIZED STEEL BOLT RETAINER PLATE

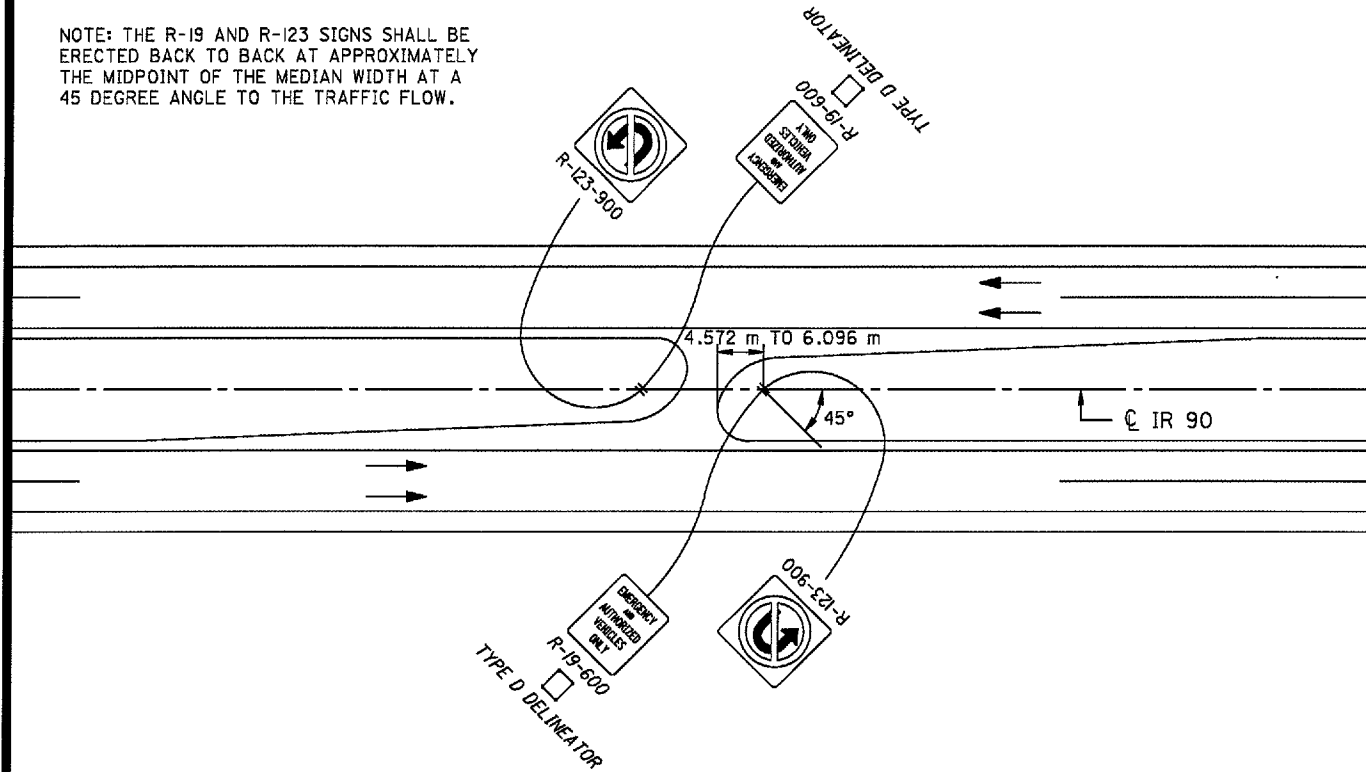
LOR-90-15.257

CALCULATED BY:  
CHECKED BY:

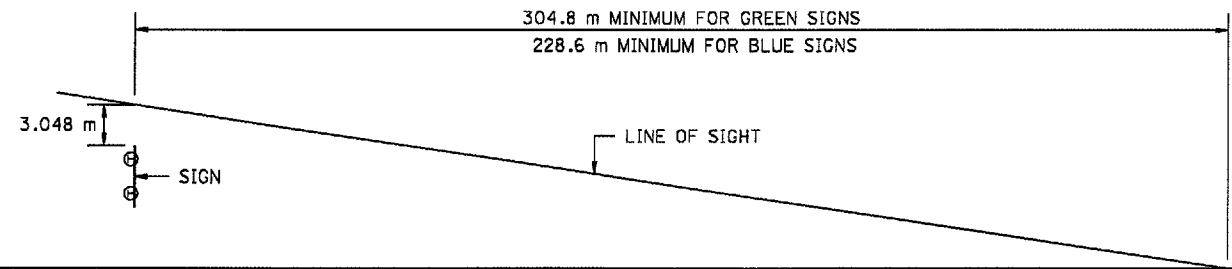
GENERAL NOTES

LOR-90-15.257

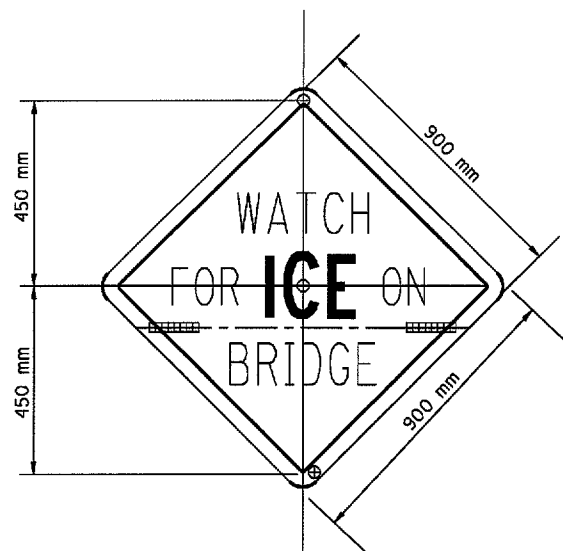
NOTE: THE R-19 AND R-123 SIGNS SHALL BE ERECTED BACK TO BACK AT APPROXIMATELY THE MIDPOINT OF THE MEDIAN WIDTH AT A 45 DEGREE ANGLE TO THE TRAFFIC FLOW.



STANDARD SIGNING FOR U-TURN MEDIAN CROSSOVER



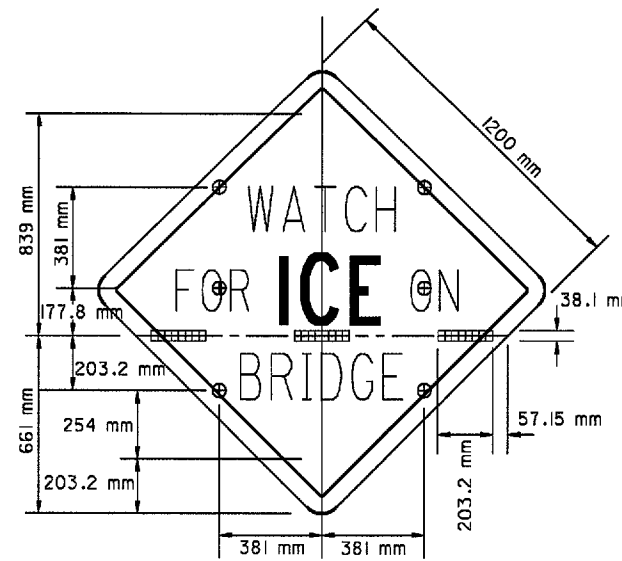
GUIDE FOR CLEARING AND GRUBBING



HOLES DRILLED AS PER TC-52.10M

- 1) THE SIGN SHALL BE JOINED WITH AN 203.2 mm LONG BY 25.4-38.1 mm WIDE HINGE WHICH IS RIVETED TO EACH SECTION OF THE SIGN AND THEN COVERED WITH YELLOW REFLECTIVE SHEETING (TYPE F-730.18) TO MATCH THE BACKGROUND OF THE SIGN. USE STAINLESS STEEL HINGES.
- 2) TO FOLD THE SIGN DOWN, REMOVE THE TOP TWO BOLTS, FOLD THE UPPER PART OF THE SIGN DOWN AND INSERT A BOLT THROUGH THE LOWEST HOLE IN THE SIGN AND INTO THE POST. FASTEN THE BOLT TO PREVENT THE SIGN FROM FLOPPING IN THE WIND AND SUSTAINING DAMAGE.
- 3) MOUNT ON ONE NO. 2 SIGN SUPPORT.

W-68-900 HINGED SIGN DETAIL

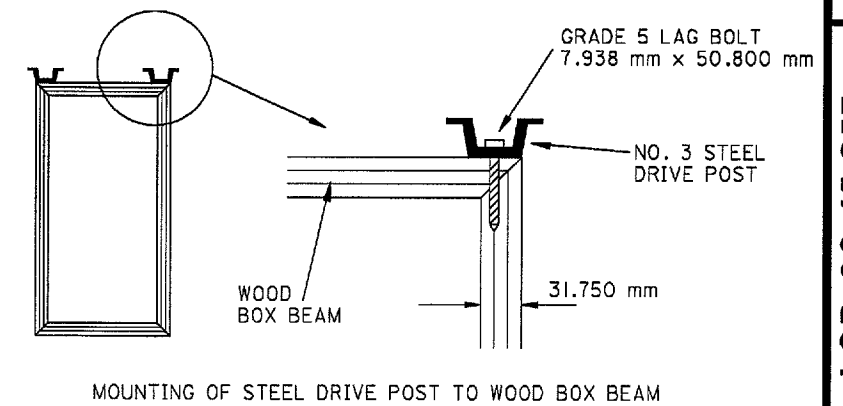
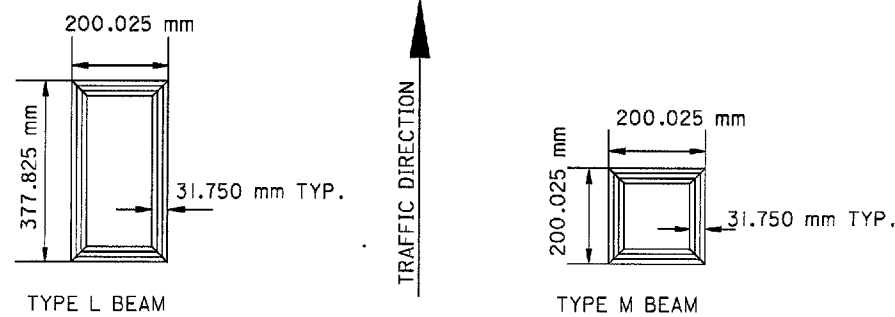
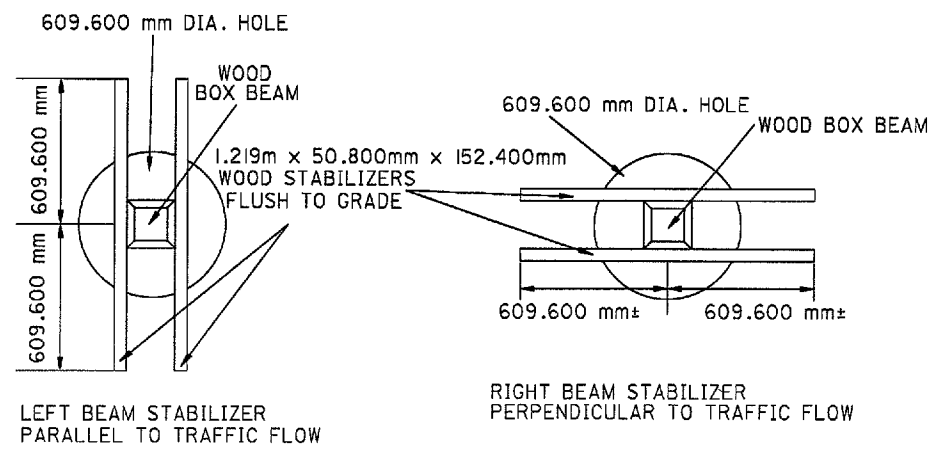
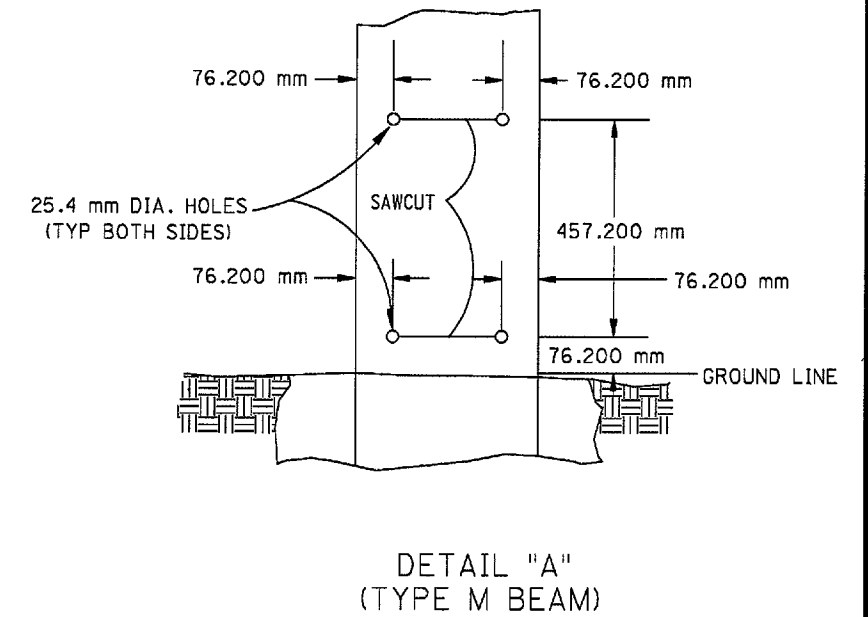
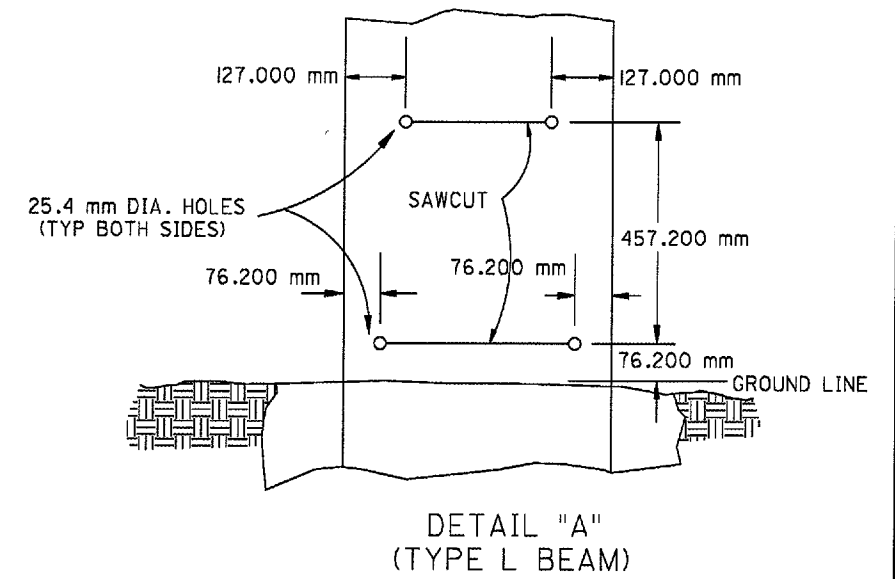
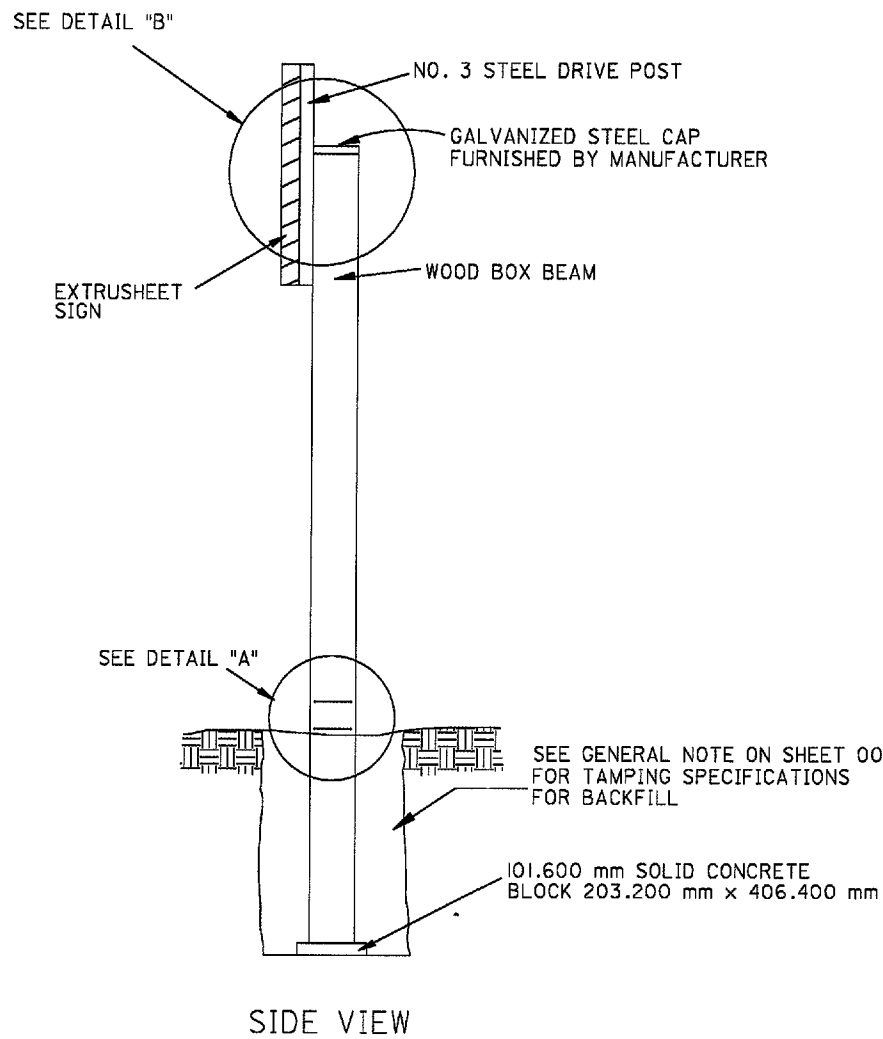
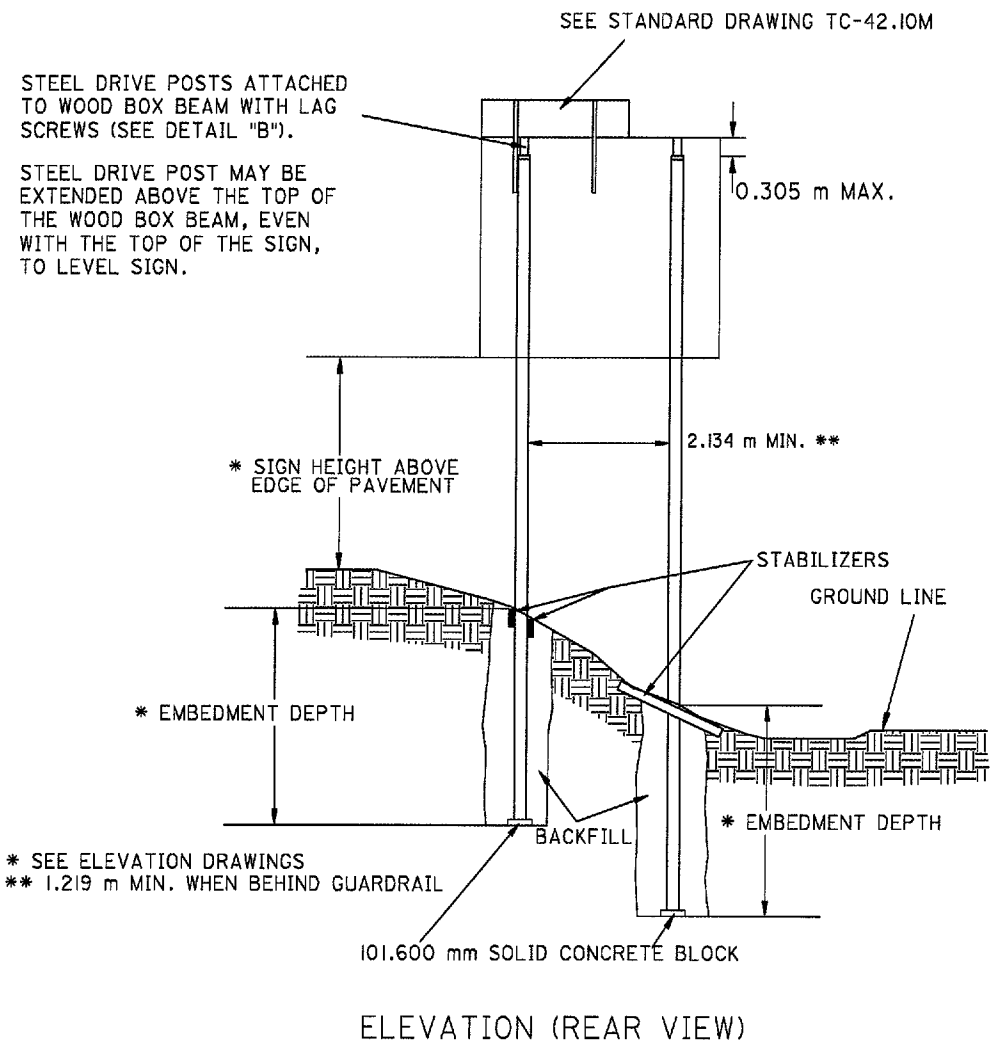


HOLES DRILLED AS PER TC-52.10M

- 1) THE SIGN SHALL BE JOINED WITH AN 203.2 mm LONG BY 25.4-38.1 mm WIDE HINGE WHICH IS RIVETED TO EACH SECTION OF THE SIGN AND THEN COVERED WITH YELLOW REFLECTIVE SHEETING (TYPE F-730.18) TO MATCH THE BACKGROUND OF THE SIGN. USE STAINLESS STEEL HINGES.
- 2) TO FOLD THE SIGN DOWN, REMOVE THE TOP TWO BOLTS, FOLD THE UPPER PART OF THE SIGN DOWN AND INSERT A BOLT THROUGH THE LOWEST HOLE IN THE SIGN AND INTO THE POST. FASTEN THE BOLT TO PREVENT THE SIGN FROM FLOPPING IN THE WIND AND SUSTAINING DAMAGE.
- 3) MOUNT ON TWO NO. 3 SIGN SUPPORTS.

W-68-1200 HINGED SIGN DETAIL

# TYPICAL WOOD BOX BEAM INSTALLATION



WOOD BOX BEAM INSTALLATION DETAIL

LOR-90-15.257  
LOR-2-15.289

# GENERAL SUMMARY



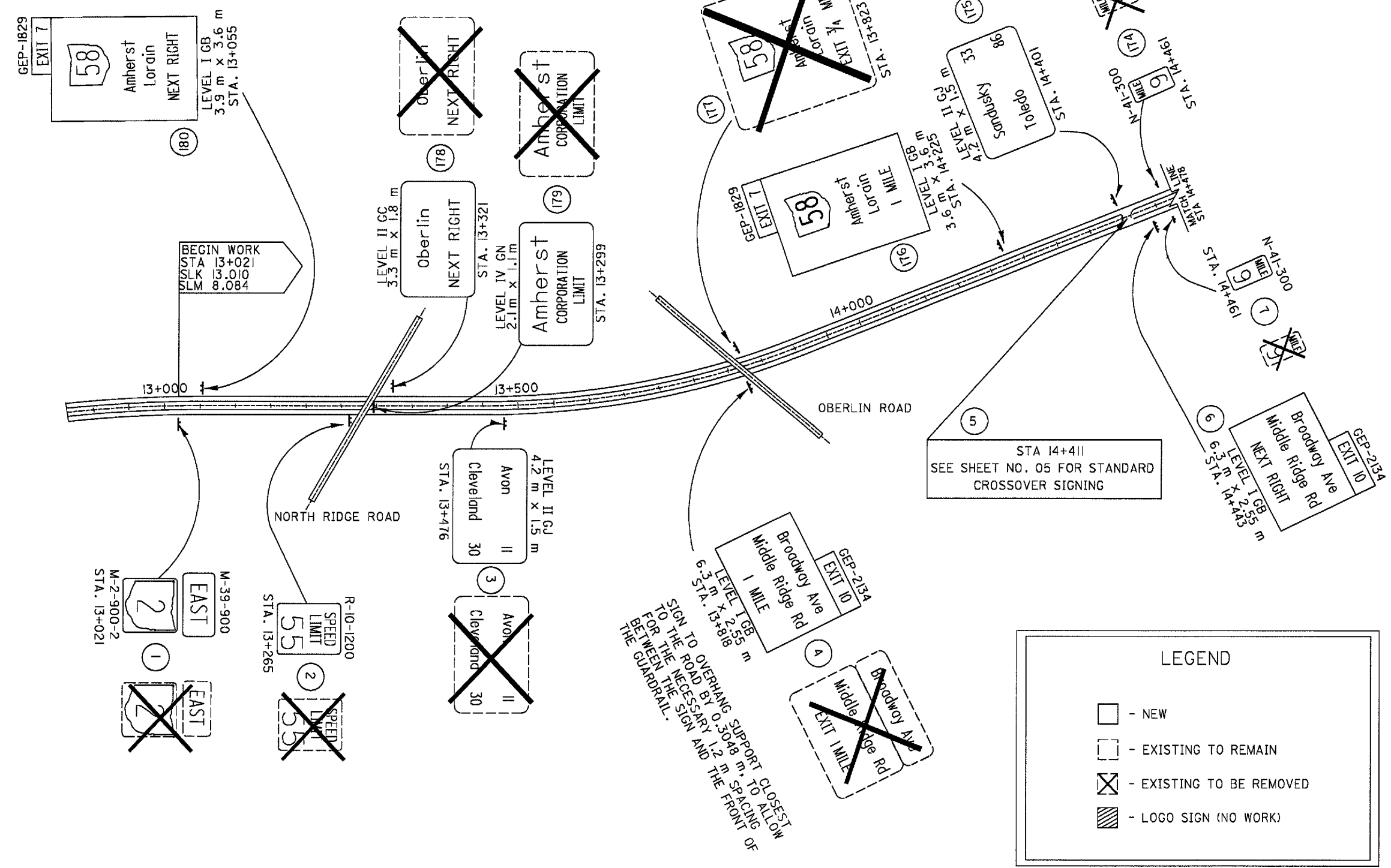
CALC BY JBC  
CHK'D By PAJ

SHEET NUMBER																	ITEM	ITEM	TOTAL	UNIT	DESCRIPTION																			
2	4	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42		EXT.																						
<b>ROADWAY</b>																																								
																		201	11000	LUMP	LUMP	CLEARING AND GRUBBING																		
<b>TRAFFIC CONTROL</b>																																								
		2	2	2	2	2	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	620	40300	10	EACH	REFLECTOR, TYPE D, AS PER PLAN																		
		5.48	4.14	2.60	4.08	3.48	1.54	4.7	1.1	0.0	1.0	0.00	1.20	0.00	0.00	1.82	630	00100	31.08	CU m	CONCRETE FOR EMBEDDED FOUNDATION																			
		27.5	36.5	27.5	27.5	31.2	39.8	43.9	3.7	70.2	76.2	81.5	81.8	57.0	95.2	76.8	630	02100	776.3	METER	GROUND MOUNTED SUPPORT, NO. 2 POST																			
		77.0	12.9	38.4	9.2	37.6	28.4	39.6	38.8	46.1	27.0	18.4	16.8	34.8	11.6	14.0	630	03100	450.6	METER	GROUND MOUNTED SUPPORT, NO. 3 POST																			
		8.8	27.8	48.2	8.8	28.4	28.2	19.0	8.8	8.6	0.0	0.0	19.2	15.6	4.8	15.6	630	04100	241.8	METER	GROUND MOUNTED SUPPORT, NO. 4 POST																			
		9.6	19.7	9.5	10.0	19.3	9.6	19.5	0.0	0.0	19.1	0.0	0.0	0.0	0.0	0.0	630	06400	116.3	METER	GROUND MOUNTED SUPPORT, S4 X 7.7 BEAM																			
		24.1	24.1	15.2	9.6	0.0	8.5	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	630	07500	88.0	METER	GROUND MOUNTED SUPPORT, W10 X 22 BEAM																			
		13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	630	07600	38.2	METER	GROUND MOUNTED SUPPORT, W10 X 12 BEAM																			
		0.0	0.0	0.0	18.0	17.2	0.0	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	630	08000	62.7	METER	GROUND MOUNTED SUPPORT, W12 X 30 BEAM																			
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	9.0	630	08004	18.0	METER	ONE-WAY SUPPORT NO. 3 POST																			
		7	7	4	5	6	3	7.0	1.0	0.0	6.0	0	2	2	0	2	630	09000	52	EACH	BREAKAWAY BEAM CONNECTION																			
		14.7	11.0	15.9	4.6	15.9	9.2	10.7	6.0	12.3	8.6	10.5	5.9	9.0	7.6	10.1	630	80100	152.0	SQ m	SIGN, FLAT SHEET, TYPE F																			
		0.0	0.0	1.5	0.0	0.0	1.5	1.5	0.0	0.8	1.7	0.0	0.0	1.7	0.0	0.8	630	80101	9.5	SQ m	SIGN, FLAT SHEET, TYPE F, AS PER PLAN																			
		1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	7.8	0.5	0.0	12.4	0.9	7.8	0.0	630	80102	37.8	SQ m	SIGN, FLAT SHEET, TYPE G																			
		91.0	94.3	82.5	53.8	91.1	104.6	161.7	43.8	17.3	24.2	23.7	8.6	23.2	10.1	27.3	630	80204	857.2	SQ m	SIGN, EXTRUSHEET, TYPE G																			
		4	6	3	3	4	5	3.0	2.0	0.0	0.0	0	2	2	2	1	630	82000	37	EACH	SIGN BACKING ASSEMBLY																			
		25	22	27	15	28	23	26.0	6.0	28.0	20.0	19	26	16	27	15	630	84900	323	EACH	REMOVAL OF GROUND MOUNTED MINOR SIGN & DISPOSAL																			
		7	7	6	3	8	8	5.0	4.0	5.0	2.0	0	0	0	0	0	630	85400	55	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN & DISPOSAL																			
		32	24	28	15	30	28	28.0	10.0	29.0	21.0	18	24	12	21	13	630	86002	333	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT & DISPOSAL																			
		2	1	0	0	0	1	0.0	3.0	0.0	0.0	0	0	0	0	0	630	86102	7	EACH	REMOVAL OF GROUND MOUNTED BEAM SUPPORT & DISPOSAL																			
		9	7	0	0	0	5	8.0	0.0	0.0	4.0	2	0	4	0	4	630	87400	34	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN & DISPOSAL																			
																	630	97700	9	EACH	SIGNING, MISC.: GALVANIZED STEEL BOLT RETAINER PLATE, AS PER PLAN																			
		31.3	0.0	33.6	0.0	35.8	12.1	0.0	34.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	630	97900	147.2	METER	GROUND MOUNTED SUPPORT, TYPE "L" WOOD BEAM																			
		24.9	10.5	0.0	11.8	11.6	11.9	12.8	12.6	0.0	0.0	0.0	0.0	0.0	13.2	0.0	630	97900	109.3	METER	GROUND MOUNTED SUPPORT, TYPE "M" WOOD BEAM																			
<b>MAINTENANCE OF TRAFFIC</b>																																								
		16																614	11100	16	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR																		
																		614	11000	LUMP	LUMP	MAINTAINING TRAFFIC																		
																		619	15000	LUMP	LUMP	FIELD OFFICE, TYPE A																		
																		SPECIAL	61925000	LUMP	LUMP	COMPUTER EQUIPMENT FOR TYPE A OFFICE																		
																		623	10000	LUMP	LUMP	CONSTRUCTION LAYOUT STAKES																		
																		624	10000	LUMP	LUMP	MOBILIZATION																		

**GENERAL SUMMARY**

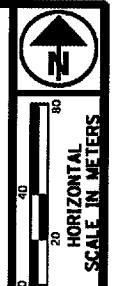
LOR-90-15.257  
LOR-2-15.289

MILE MARKER LOCATIONS INDICATED ON THIS SHEET ARE APPROXIMATE. SEE NOTE ON SHEET NO. 03 FOR THE EXACT LOCATION OF MILE MARKERS.





MILE MARKER LOCATIONS INDICATED ON THIS SHEET ARE APPROXIMATE. SEE NOTE ON SHEET NO. 03 FOR THE EXACT LOCATION OF MILE MARKERS.

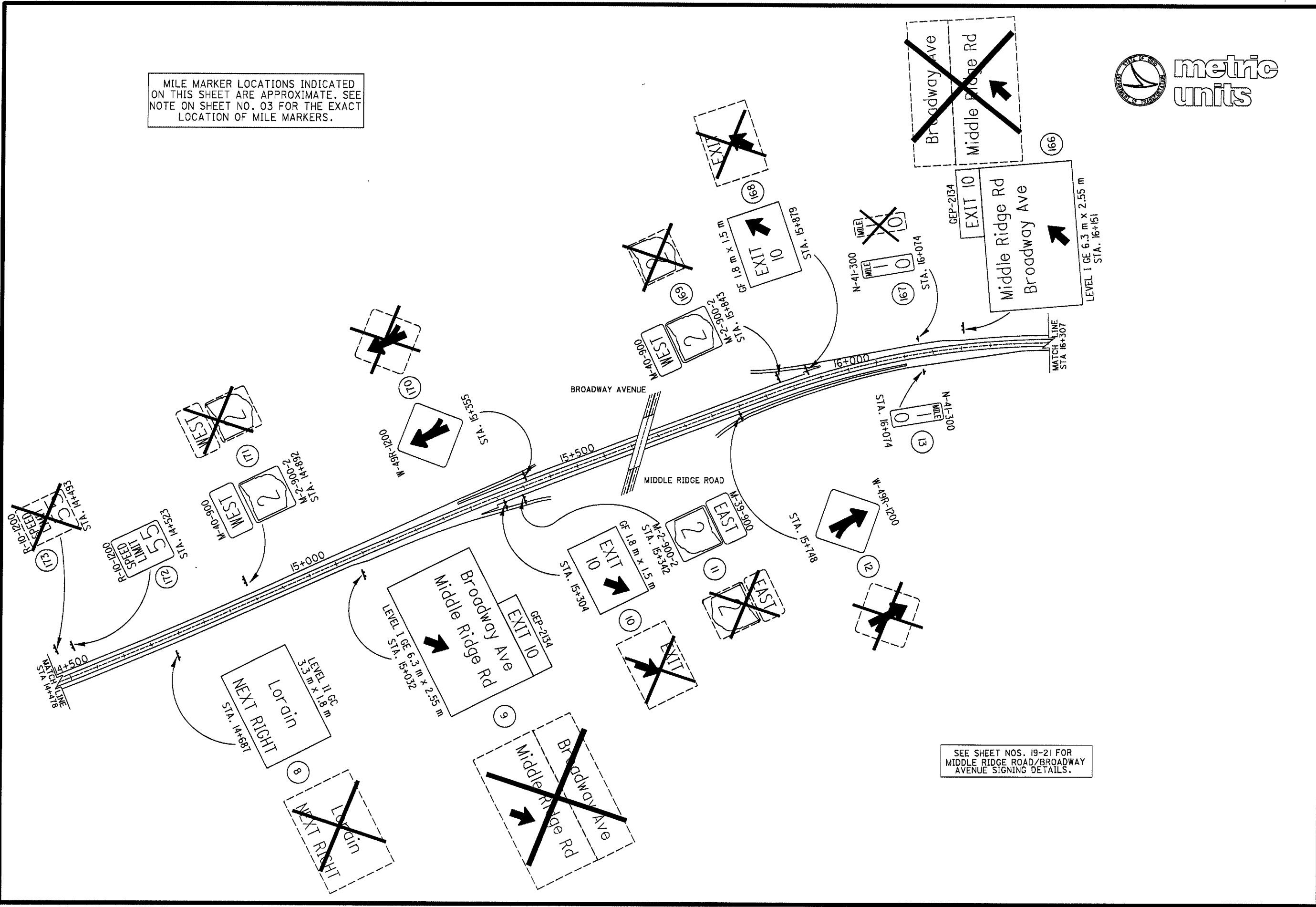


SIGNING PLAN SHEET - STA 14+478 TO STA 16+307

LOR-90-15.257  
LOR-2-15.289

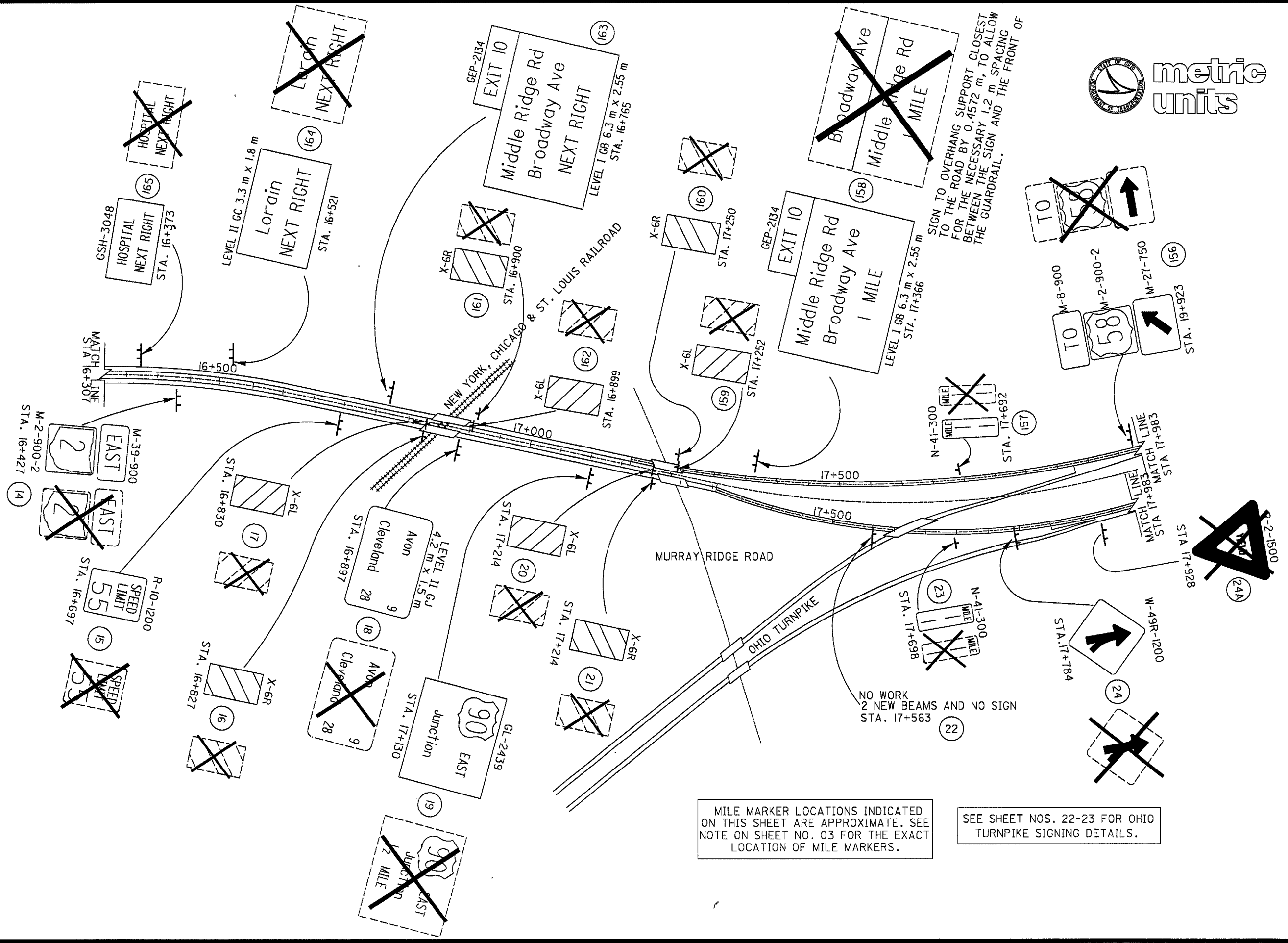
48

plan.b



SEE SHEET NOS. 19-21 FOR MIDDLE RIDGE ROAD/BROADWAY AVENUE SIGNING DETAILS.

plan\_c

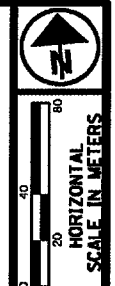


MILE MARKER LOCATIONS INDICATED ON THIS SHEET ARE APPROXIMATE. SEE NOTE ON SHEET NO. 03 FOR THE EXACT LOCATION OF MILE MARKERS.

SEE SHEET NOS. 22-23 FOR OHIO TURNPIKE SIGNING DETAILS.

SIGN TO OVERHANG SUPPORT CLOSEST TO THE ROAD BY 0.4572 m, TO ALLOW BETWEEN THE NECESSARY 1.2 m SPACING THE GUARDRAIL.

NO WORK  
2 NEW BEAMS AND NO SIGN  
STA. 17+563



**SIGNING PLAN SHEET - STA 16+307 TO STA 17+983**

LOR-90-15.257  
LOR-2-15.289



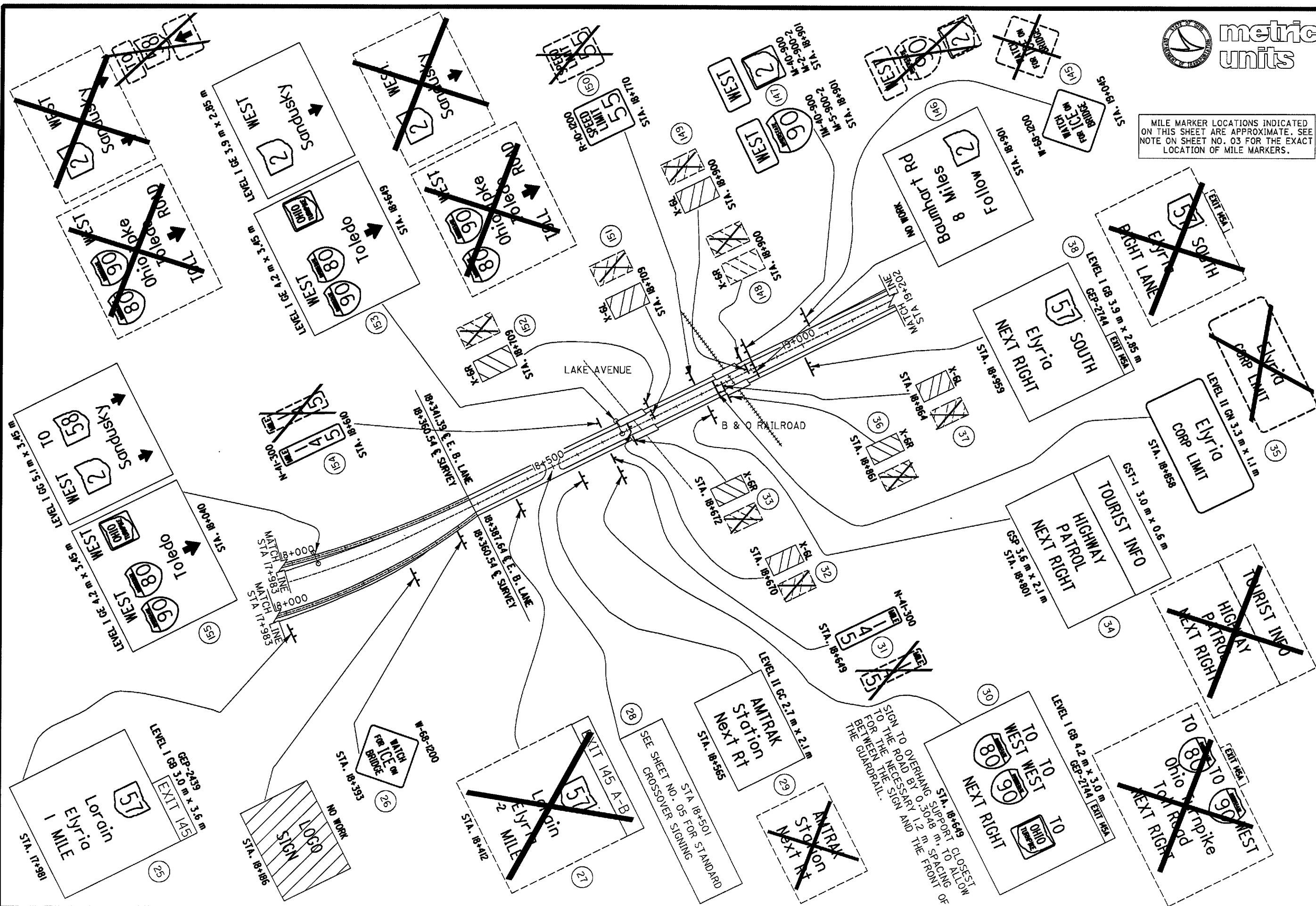
HORIZONTAL SCALE IN METERS

MILE MARKER LOCATIONS INDICATED ON THIS SHEET ARE APPROXIMATE. SEE NOTE ON SHEET NO. 03 FOR THE EXACT LOCATION OF MILE MARKERS.

SIGN PLAN SHEET - STA 17+983 TO STA 19+202

LOR-90-15.257  
LOR-2-15.289

48



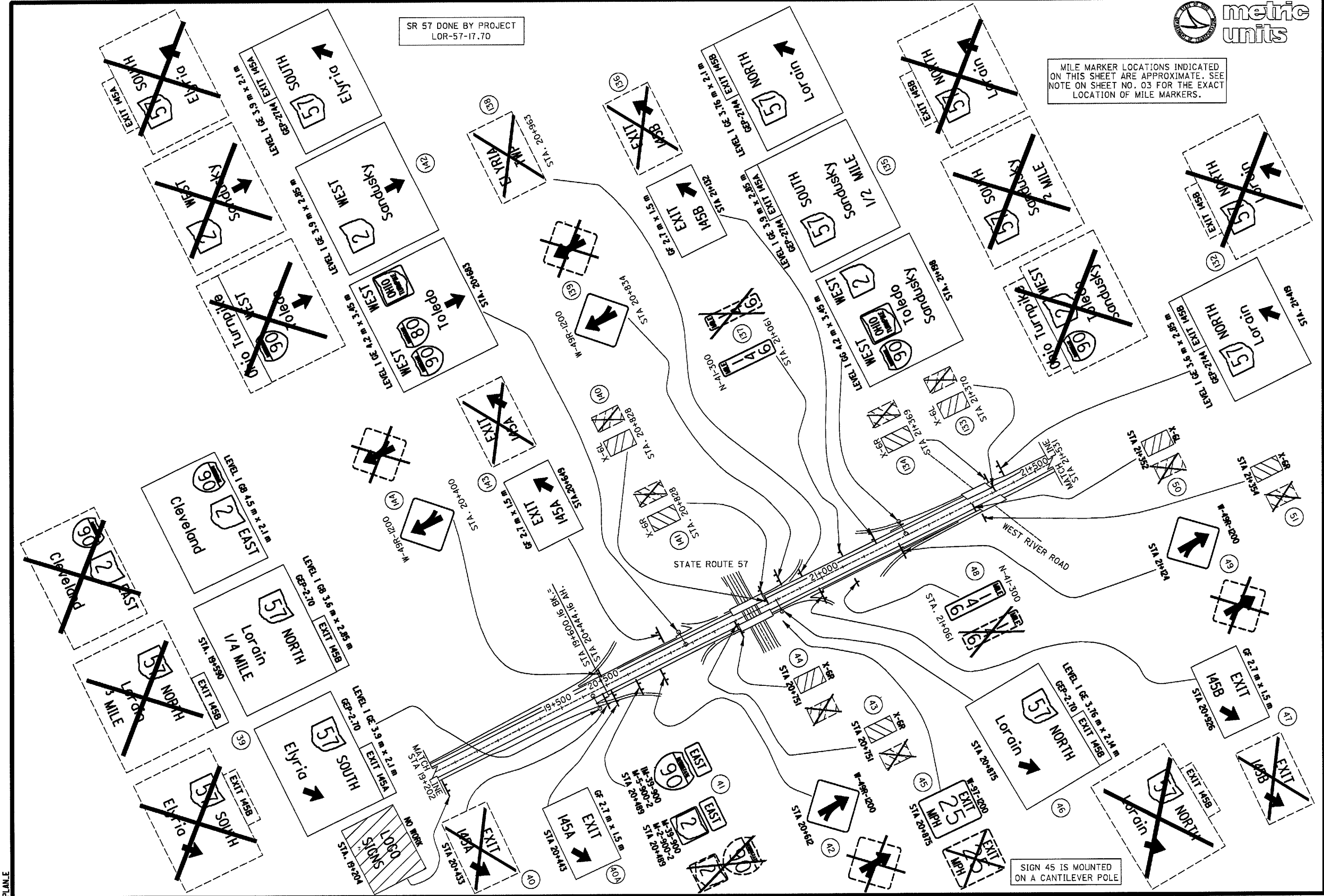
plan.d



HORIZONTAL SCALE IN METERS

MILE MARKER LOCATIONS INDICATED ON THIS SHEET ARE APPROXIMATE. SEE NOTE ON SHEET NO. 03 FOR THE EXACT LOCATION OF MILE MARKERS.

SR 57 DONE BY PROJECT LOR-57-17.70



SIGN 45 IS MOUNTED ON A CANTILEVER POLE

SIGN PLAN SHEET - STA 19+202 TO STA 21+531

LOR-90-15.257  
LOR-2-15.289

12  
48

PLAN E

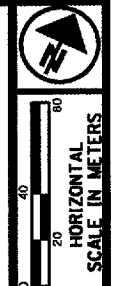
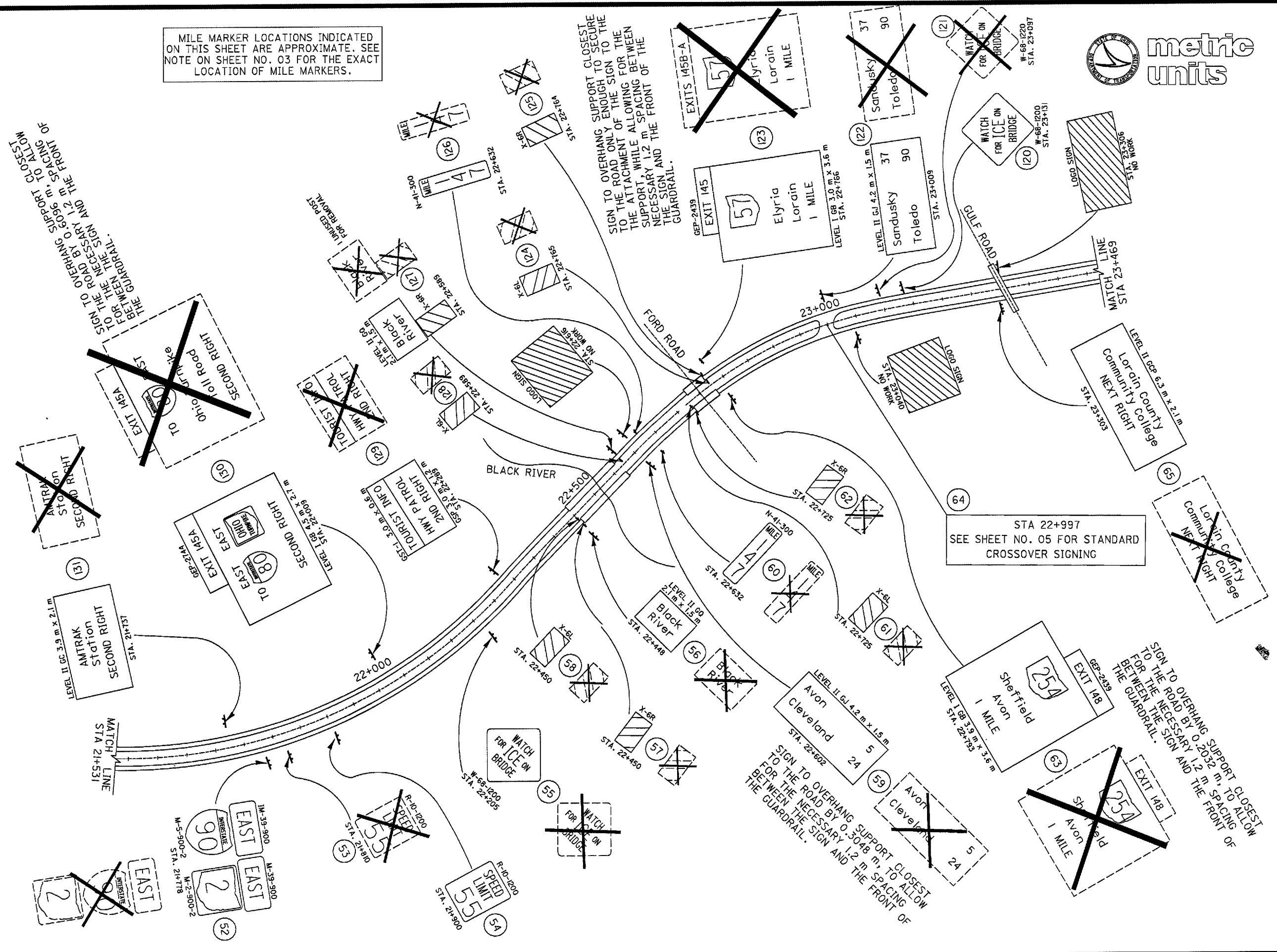
MILE MARKER LOCATIONS INDICATED ON THIS SHEET ARE APPROXIMATE. SEE NOTE ON SHEET NO. 03 FOR THE EXACT LOCATION OF MILE MARKERS.

SGN TO OVERHANG SUPPORT CLOSEST TO THE ROAD BY 0.6096 m. TO ALLOW FOR THE NECESSARY 1.2 m SPACING BETWEEN THE SIGN AND THE FRONT OF THE GUARDRAIL.

SGN TO OVERHANG SUPPORT CLOSEST TO THE ROAD ONLY ENOUGH TO SECURE THE ATTACHMENT OF THE SIGN TO THE SUPPORT, WHILE ALLOWING FOR THE NECESSARY 1.2 m SPACING BETWEEN THE SIGN AND THE FRONT OF THE GUARDRAIL.

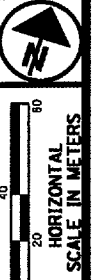
SGN TO OVERHANG SUPPORT CLOSEST TO THE ROAD BY 0.3048 m. TO ALLOW FOR THE NECESSARY 1.2 m SPACING BETWEEN THE SIGN AND THE FRONT OF THE GUARDRAIL.

SGN TO OVERHANG SUPPORT CLOSEST TO THE ROAD BY 0.2032 m. TO ALLOW FOR THE NECESSARY 1.2 m SPACING BETWEEN THE SIGN AND THE FRONT OF THE GUARDRAIL.





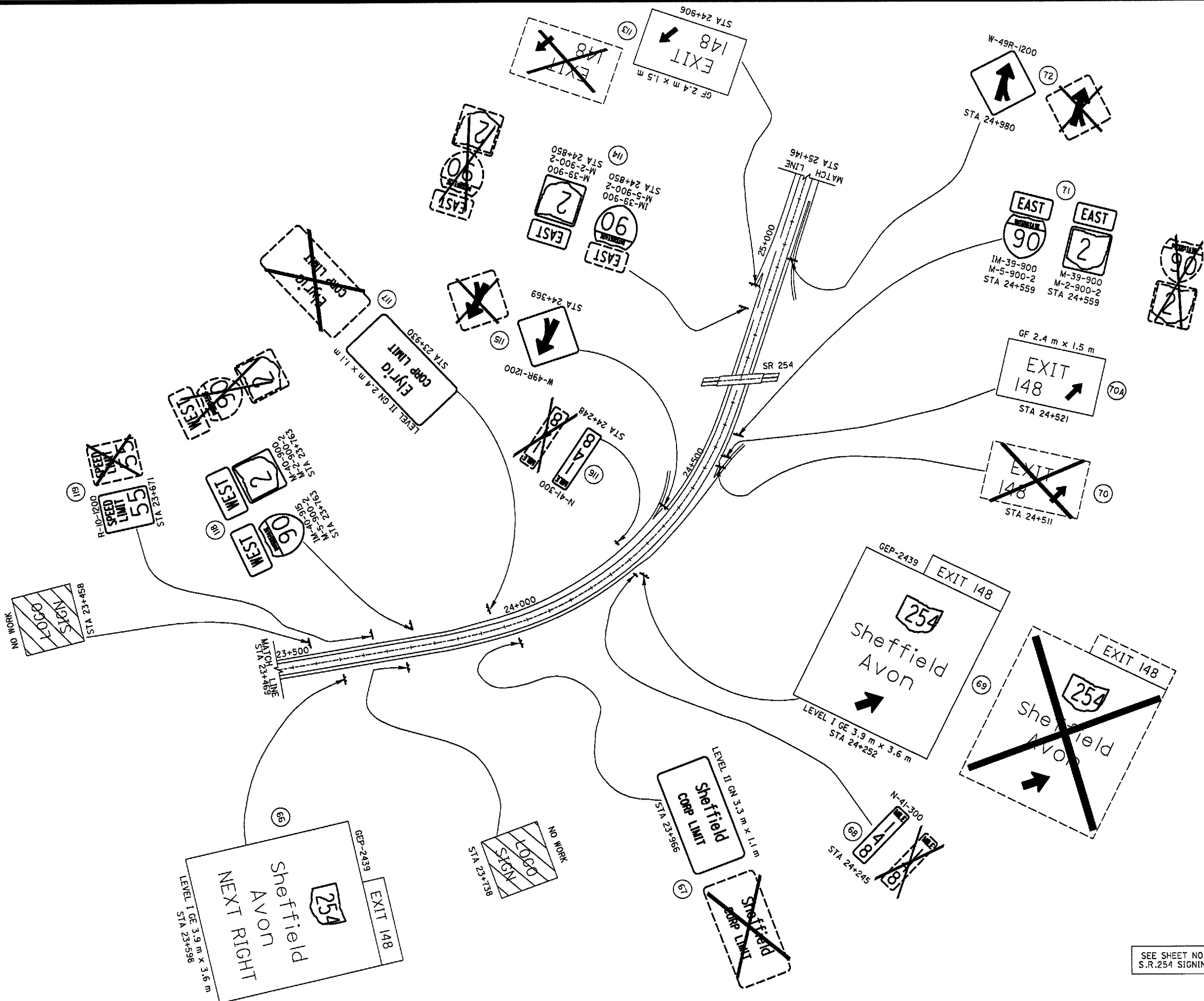
MILE MARKER LOCATIONS INDICATED ON THIS SHEET ARE APPROXIMATE. SEE NOTE ON SHEET NO. 03 FOR THE EXACT LOCATION OF MILE MARKERS.



SIGN PLAN SHEET - STA 23+469 TO STA 25+146

LOR-90-15.257  
LOR-2-15.289

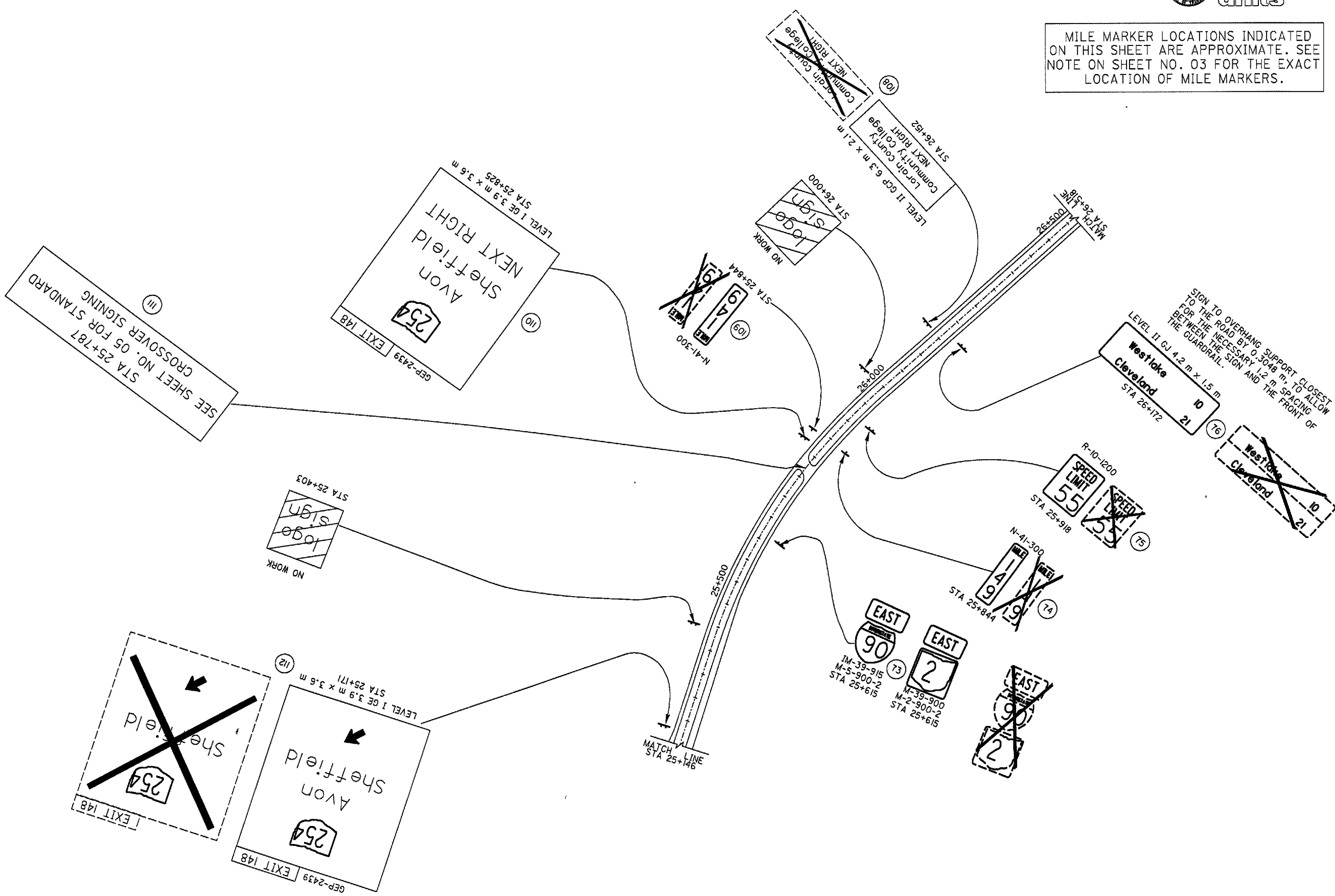
14  
48



SEE SHEET NO. 24-25 FOR S.R.254 SIGNING DETAILS.

Plan 5

MILE MARKER LOCATIONS INDICATED ON THIS SHEET ARE APPROXIMATE. SEE NOTE ON SHEET NO. 03 FOR THE EXACT LOCATION OF MILE MARKERS.



SEE SHEET NO. 05 FOR STANDARD STA 25+787 CROSSOVER SIGNING

SIGN TO OVERHANG SUPPORT CLOSEST TO THE ROAD BY 0.3048 m, TO ALLOW FOR THE NECESSARY 1.2 m SPACING BETWEEN THE SIGN AND THE FRONT OF THE GUARDRAIL.



metric  
units

MILE MARKER LOCATIONS INDICATED  
ON THIS SHEET ARE APPROXIMATE. SEE  
NOTE ON SHEET NO. 03 FOR THE EXACT  
LOCATION OF MILE MARKERS.

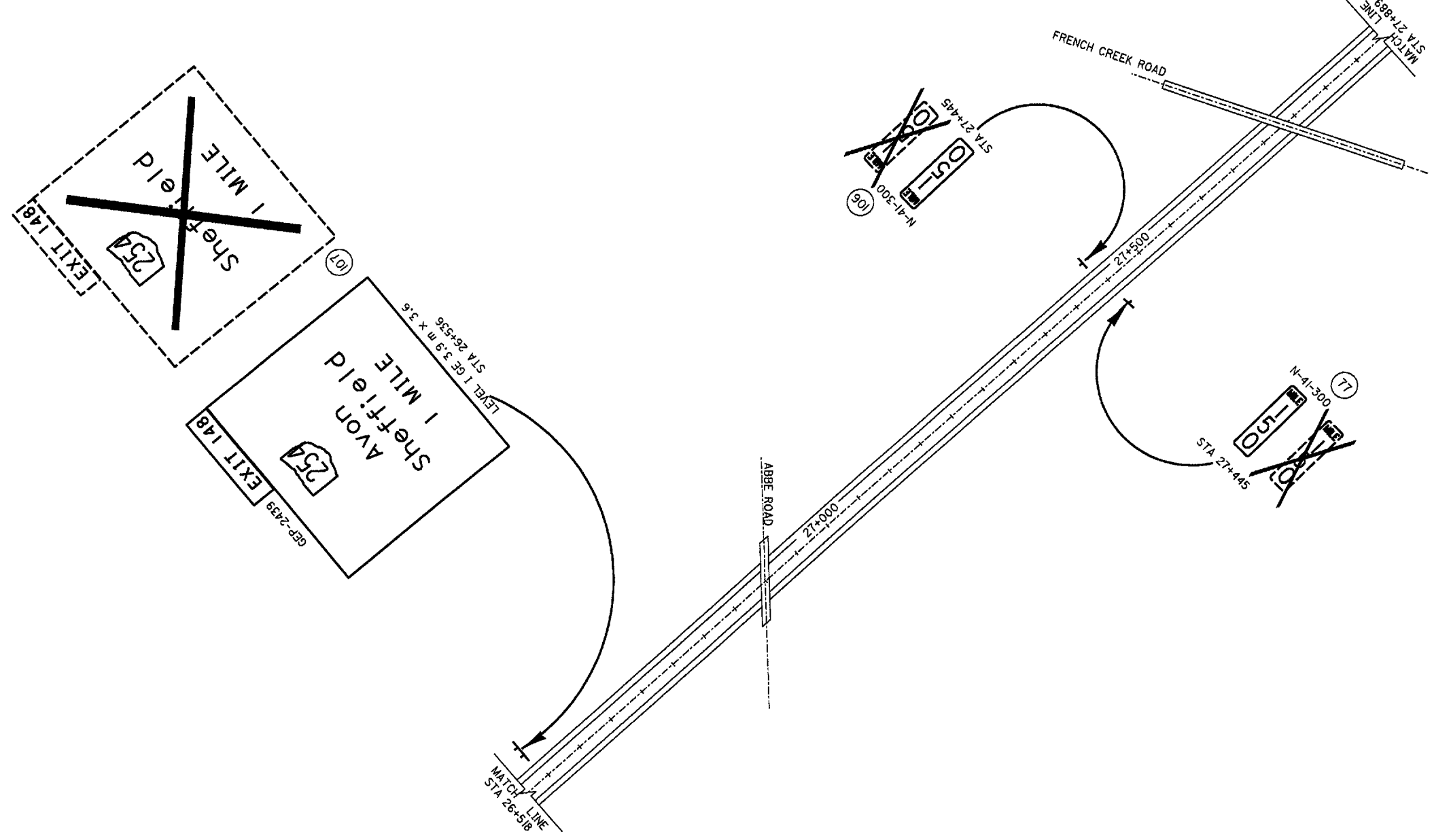


SIGN PLAN SHEET - STA 26+518 TO STA 27+889

LOR-90-15.257  
LOR-2-15.289

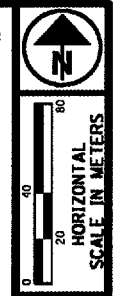
16  
48

plan\_i



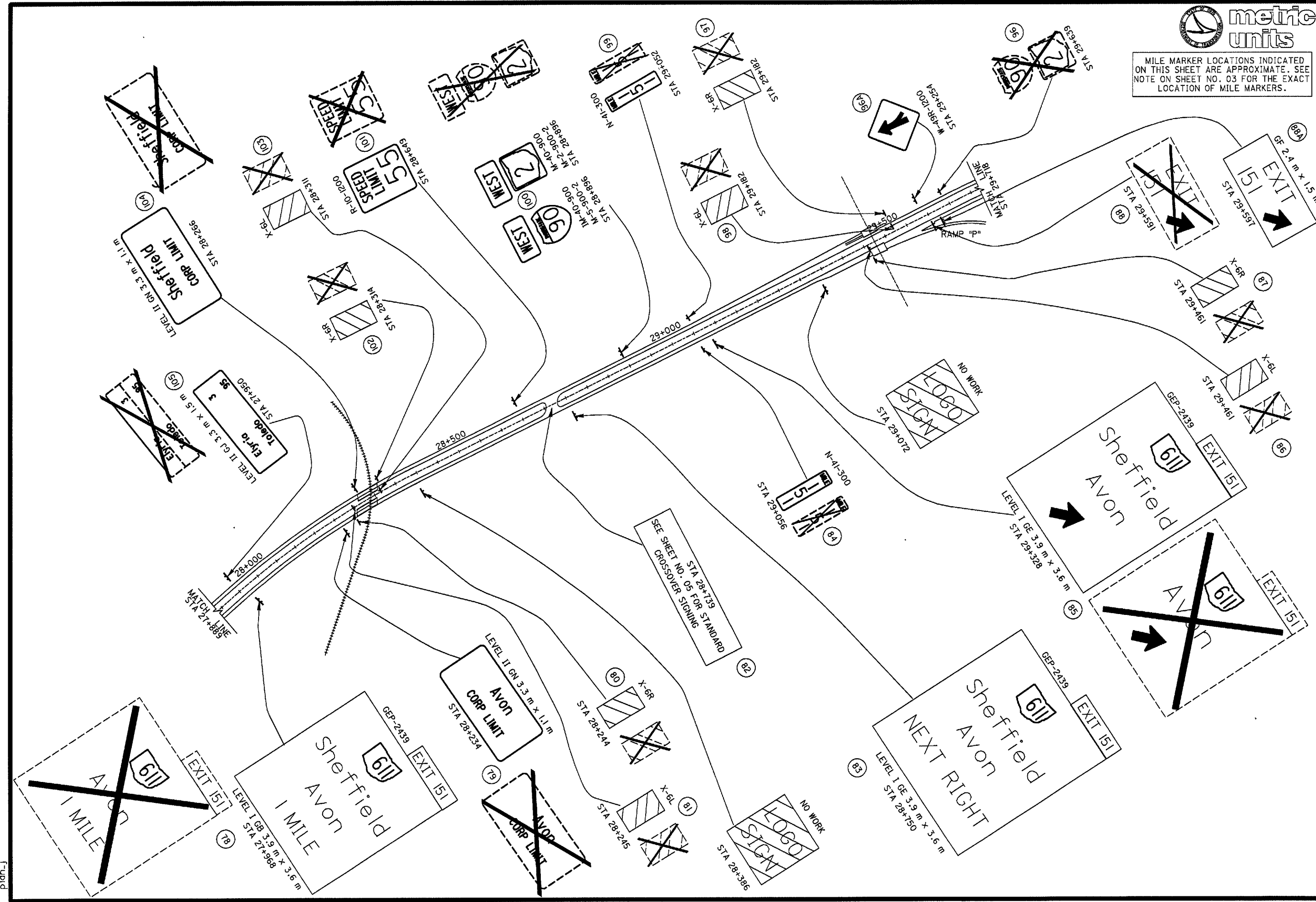


MILE MARKER LOCATIONS INDICATED ON THIS SHEET ARE APPROXIMATE. SEE NOTE ON SHEET NO. 03 FOR THE EXACT LOCATION OF MILE MARKERS.



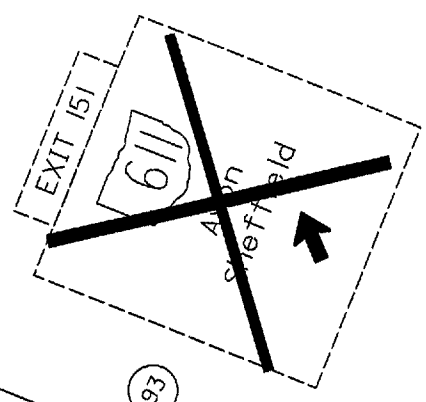
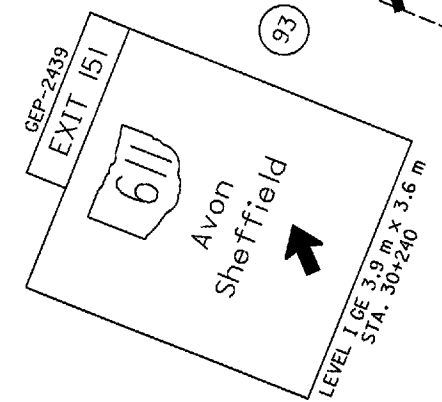
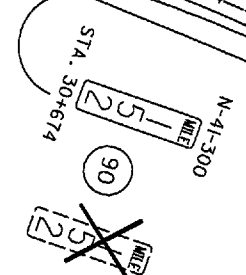
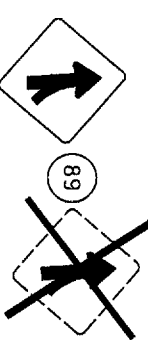
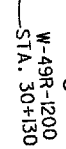
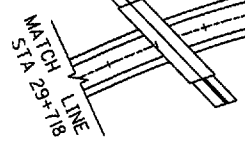
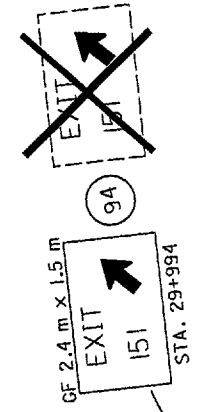
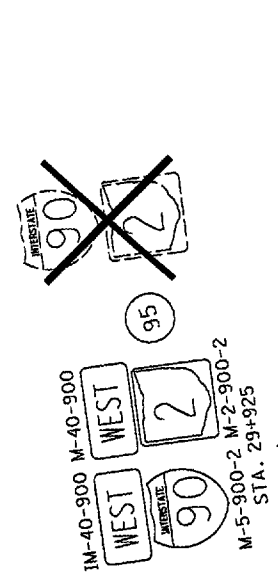
SIGN PLAN SHEET - STA 27+889 TO STA 29+718

LOR-90-15.257  
LOR-2-15.289



plan-j

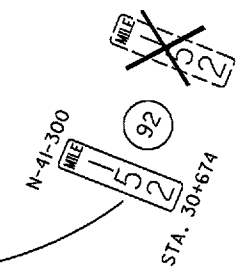
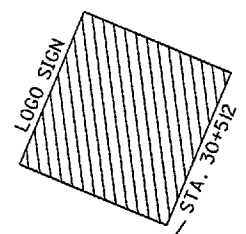
plan k



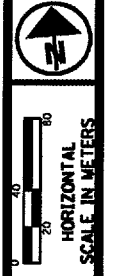
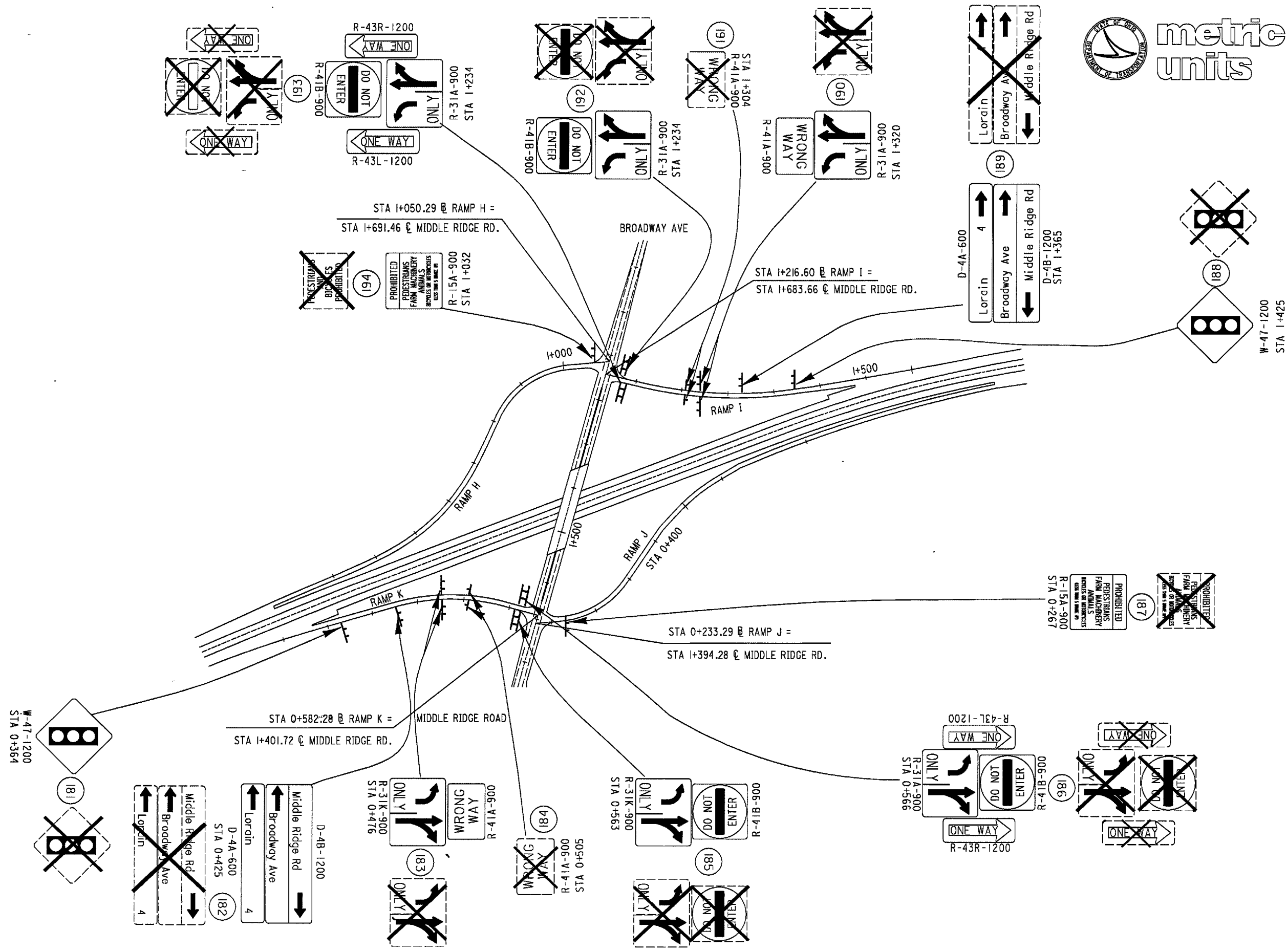
SIGN NO. 91 NOT USED

MILE MARKER LOCATIONS INDICATED ON THIS SHEET ARE APPROXIMATE. SEE NOTE ON SHEET NO. 03 FOR THE EXACT LOCATION OF MILE MARKERS.

SEE SHEET NOS. 26-27 FOR S.R. 611 SIGNING DETAILS.



midrump



**SIGNING PLAN SHEET - MIDDLE RIDGE RD/BROADWAY AVE RAMPs**

**LOR-90-15.257  
LOR-2-15.289**



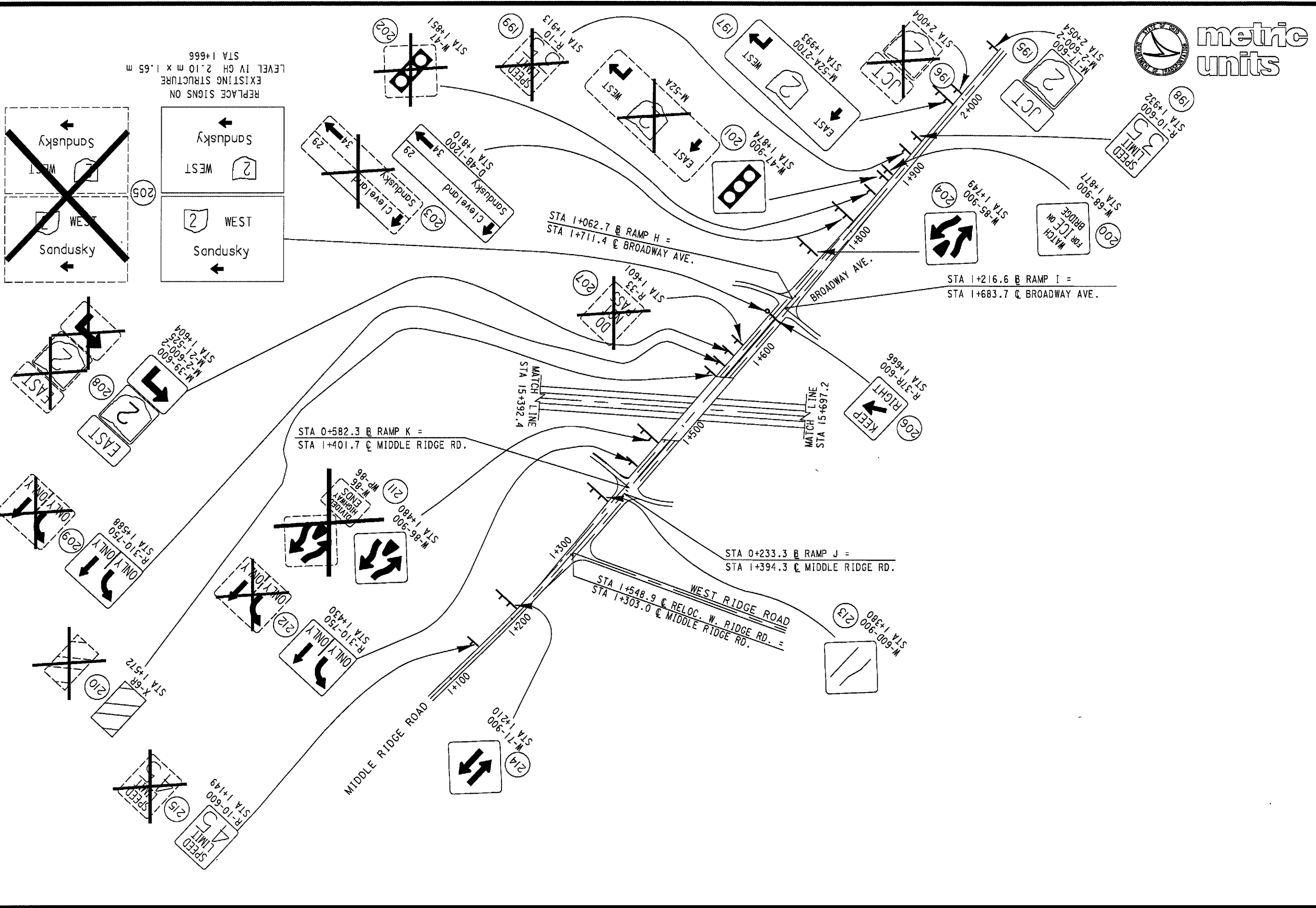
metric units



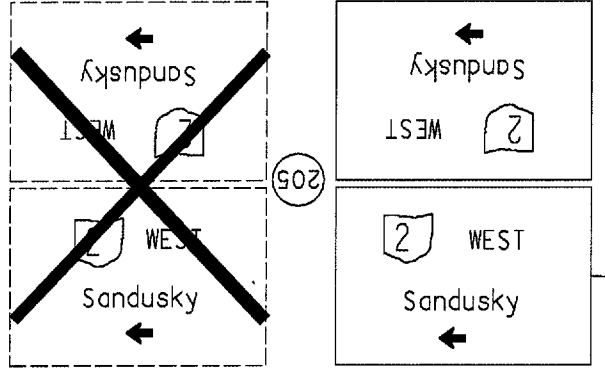
SIGNING PLAN SHEET - MIDDLE RIDGE RD/BROADWAY AVE

LOR-90-15.257  
LOR-2-15.289

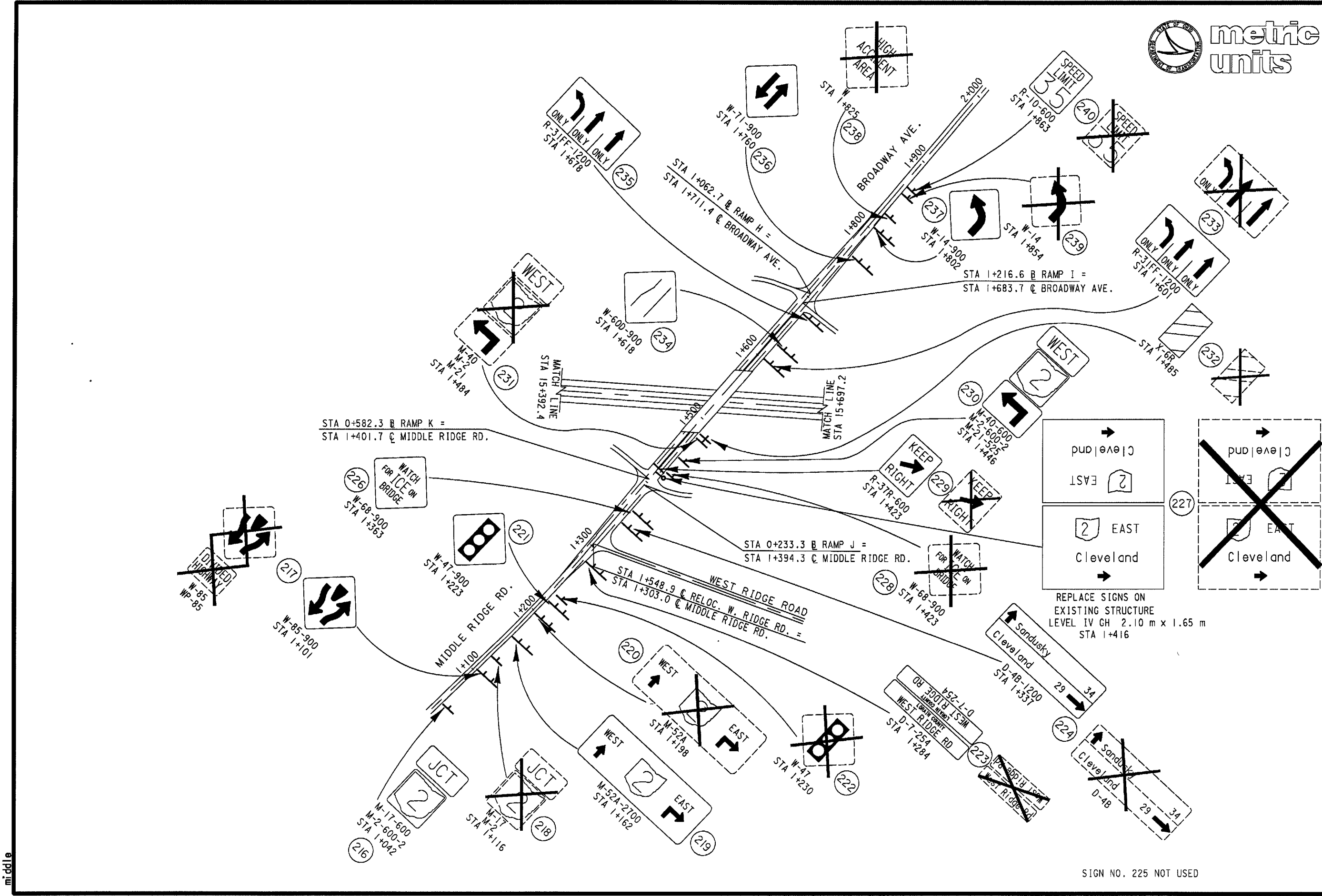
20  
48



REPLACE SIGNS ON EXISTING STRUCTURE LEVEL IV GH 2.10 m x 1.65 m STA 1+666



mi dd l eb



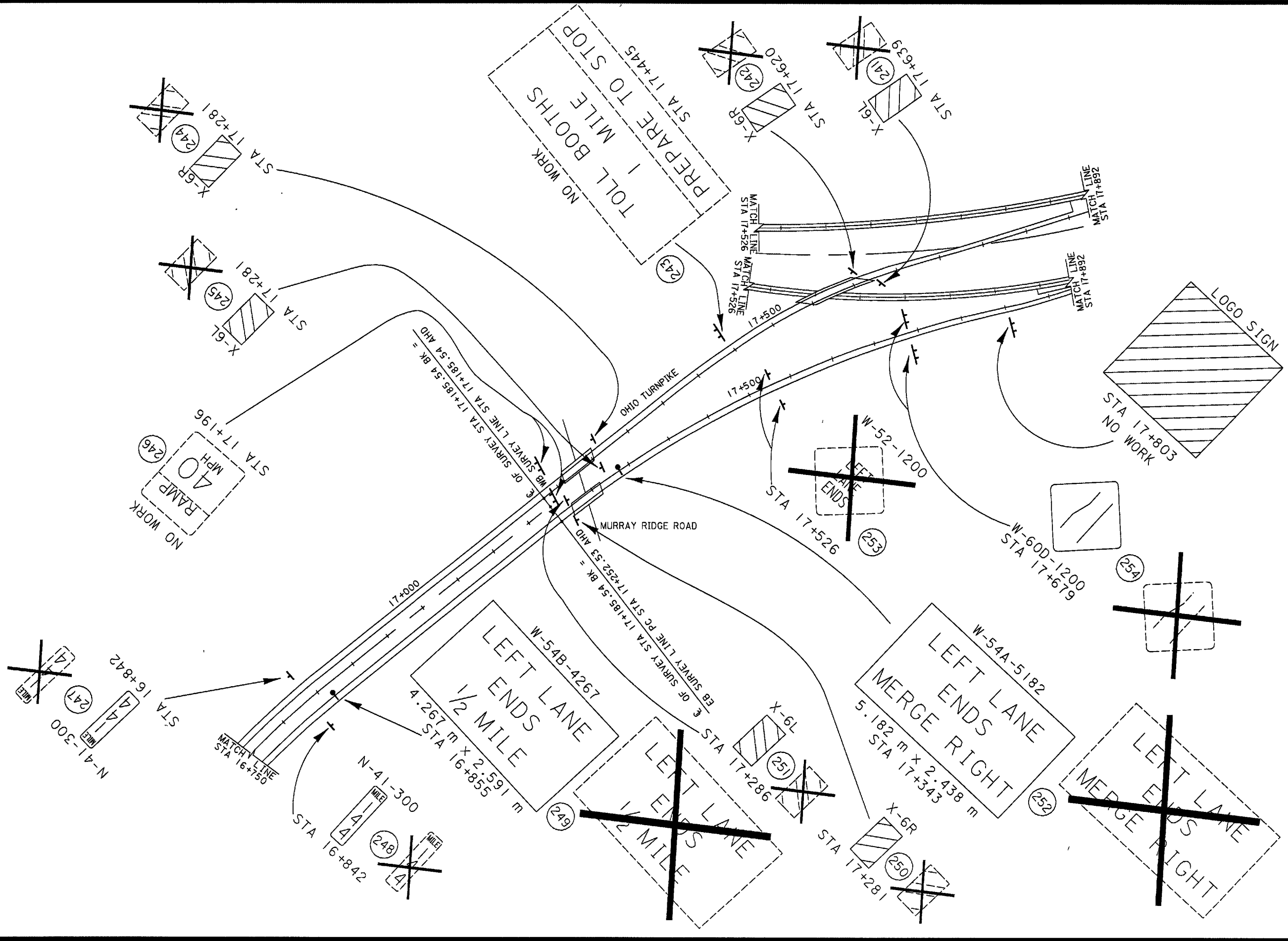
SIGNING PLAN SHEET - MIDDLE RIDGE RD/BROADWAY AVE

LOR-90-15.257  
LOR-2-15.289

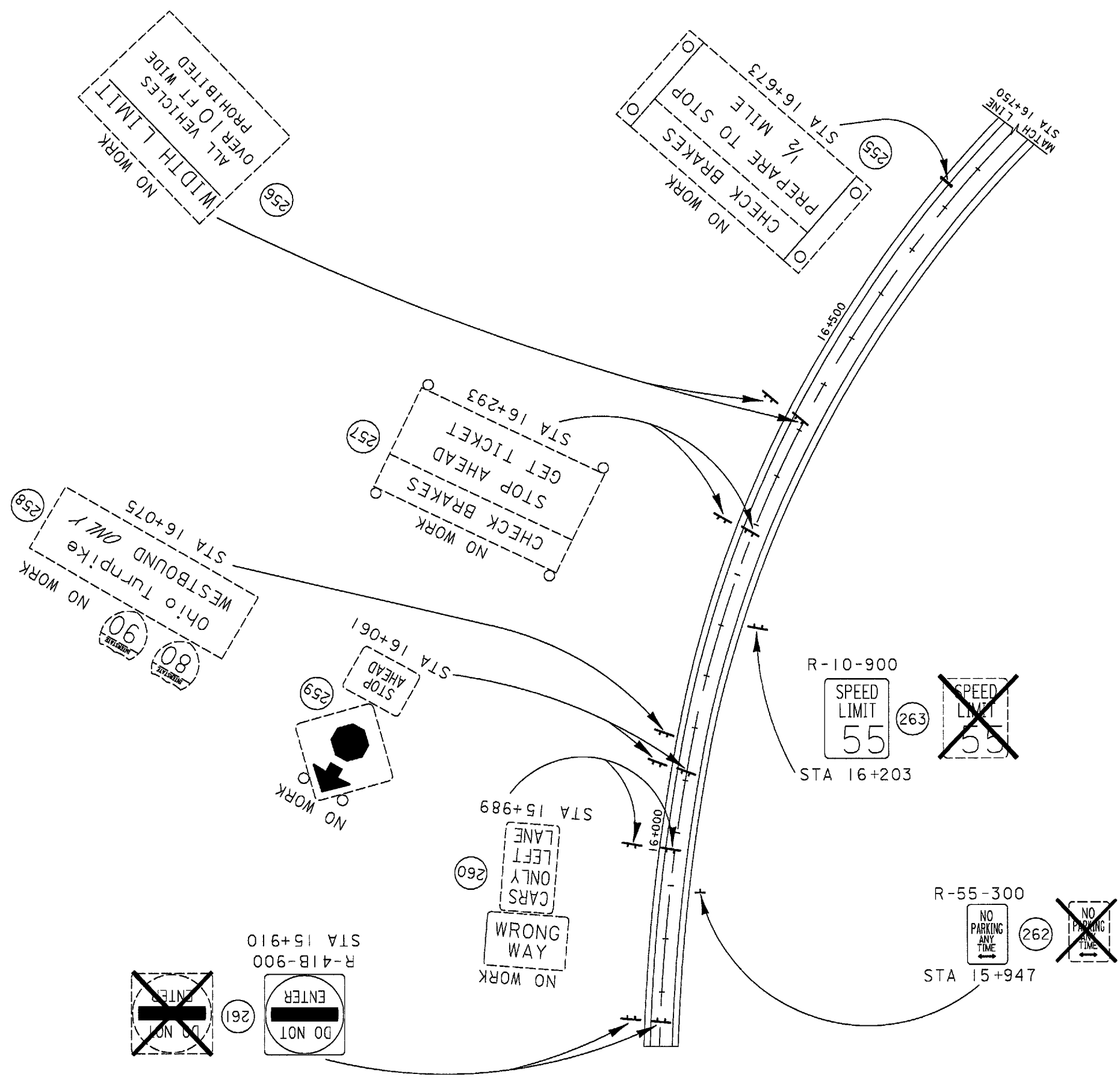
SIGN NO. 225 NOT USED

middle

tpk



tpkb



NO WORK  
 WIDTH LIMIT  
 ALL VEHICLES  
 OVER 10 FT WIDE  
 PROHIBITED  
 (256)

NO WORK  
 CHECK BRAKES  
 1/2 MILE  
 PREPARE TO STOP  
 STA 16+673  
 (255)

NO WORK  
 CHECK BRAKES  
 STOP AHEAD  
 GET TICKET  
 STA 16+293  
 (257)

NO WORK  
 OHIO TURNPIKE  
 WESTBOUND ONLY  
 STA 16+075  
 (258)

NO WORK  
 STOP AHEAD  
 STA 16+061  
 (259)

R-10-900  
 SPEED LIMIT  
 55  
 STA 16+203  
 (263)

NO WORK  
 WRONG WAY  
 CARS ONLY  
 LEFT LANE  
 STA 15+989  
 (260)

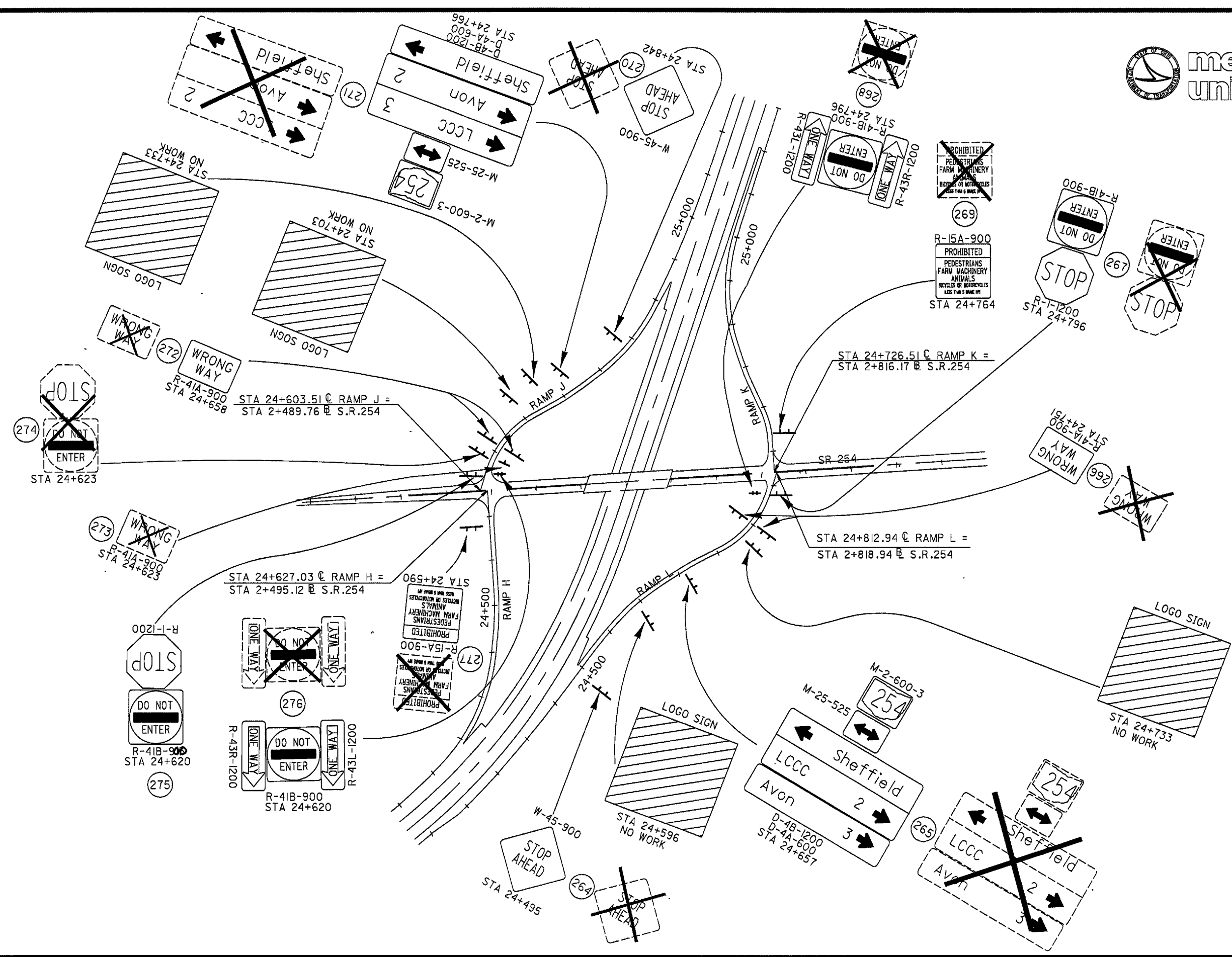
R-55-300  
 NO PARKING  
 ANY TIME  
 STA 15+947  
 (262)

DO NOT ENTER  
 (261)



SIGNING PLAN SHEET - OHIO TURNPIKE

LOR-90-15.257  
 LOR-2-15.289



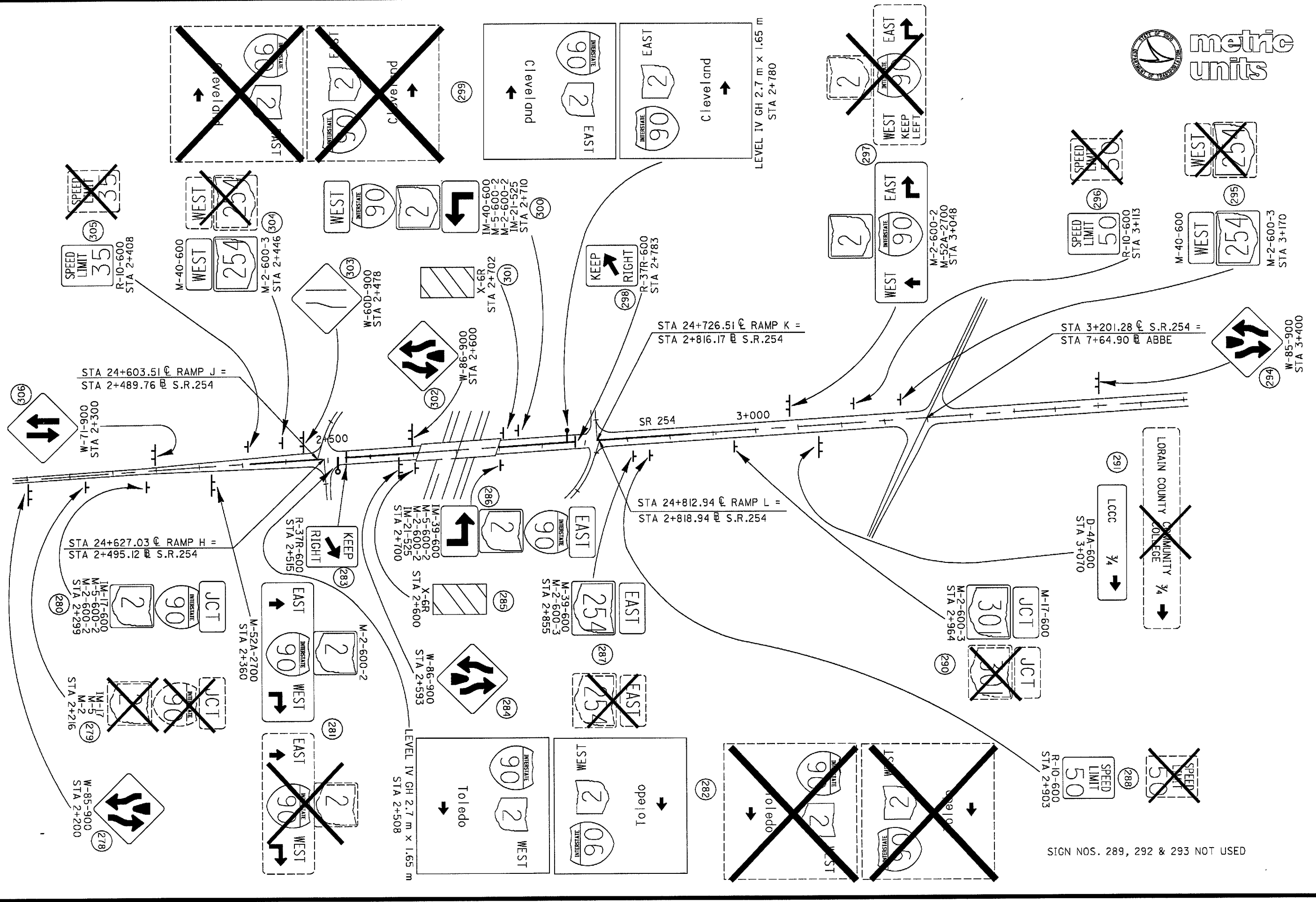
254b





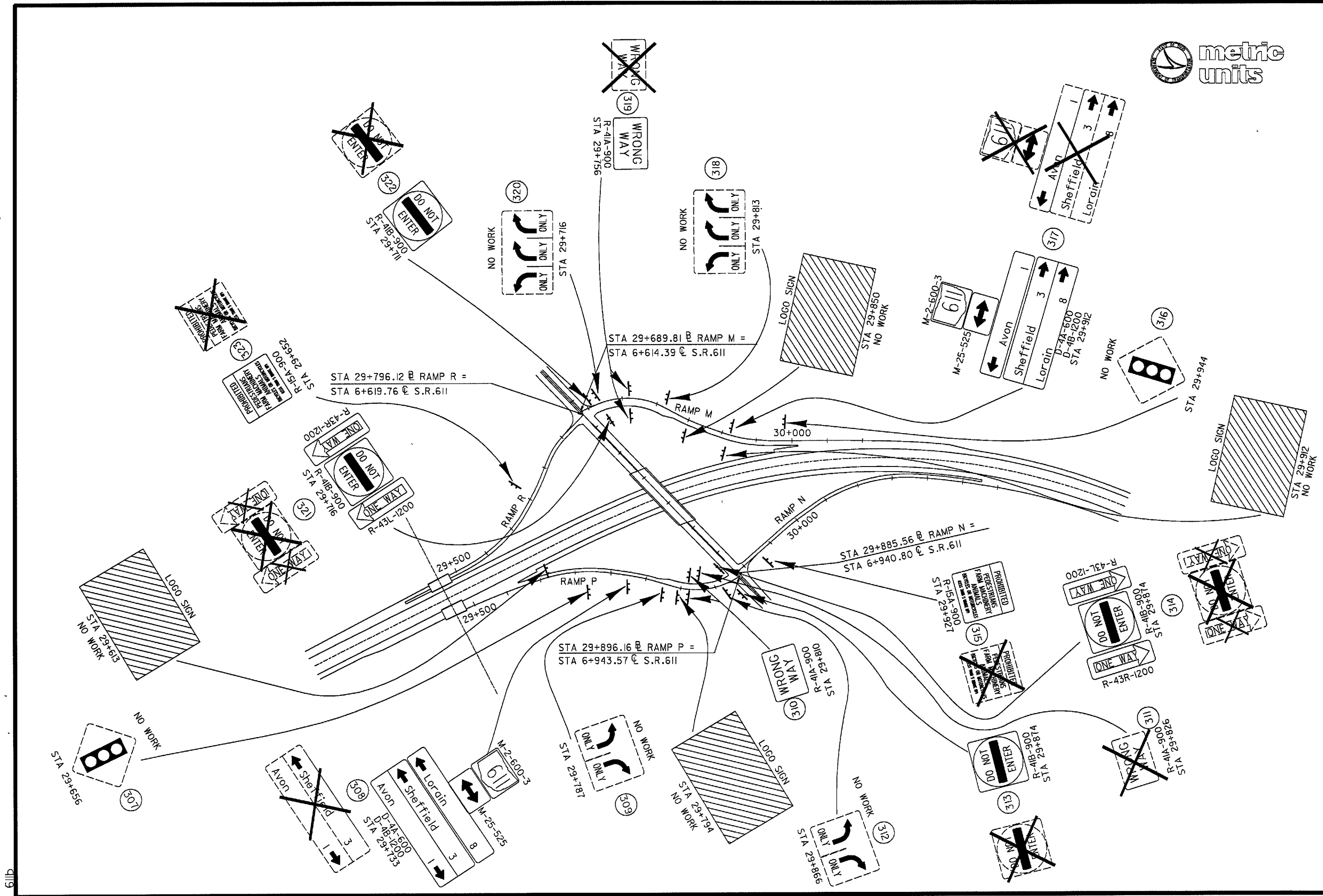
SIGNING PLAN SHEET - SR 254 INTERCHANGE

LOR-90-15.257  
LOR-2-15.289



SIGN NOS. 289, 292 & 293 NOT USED

2542



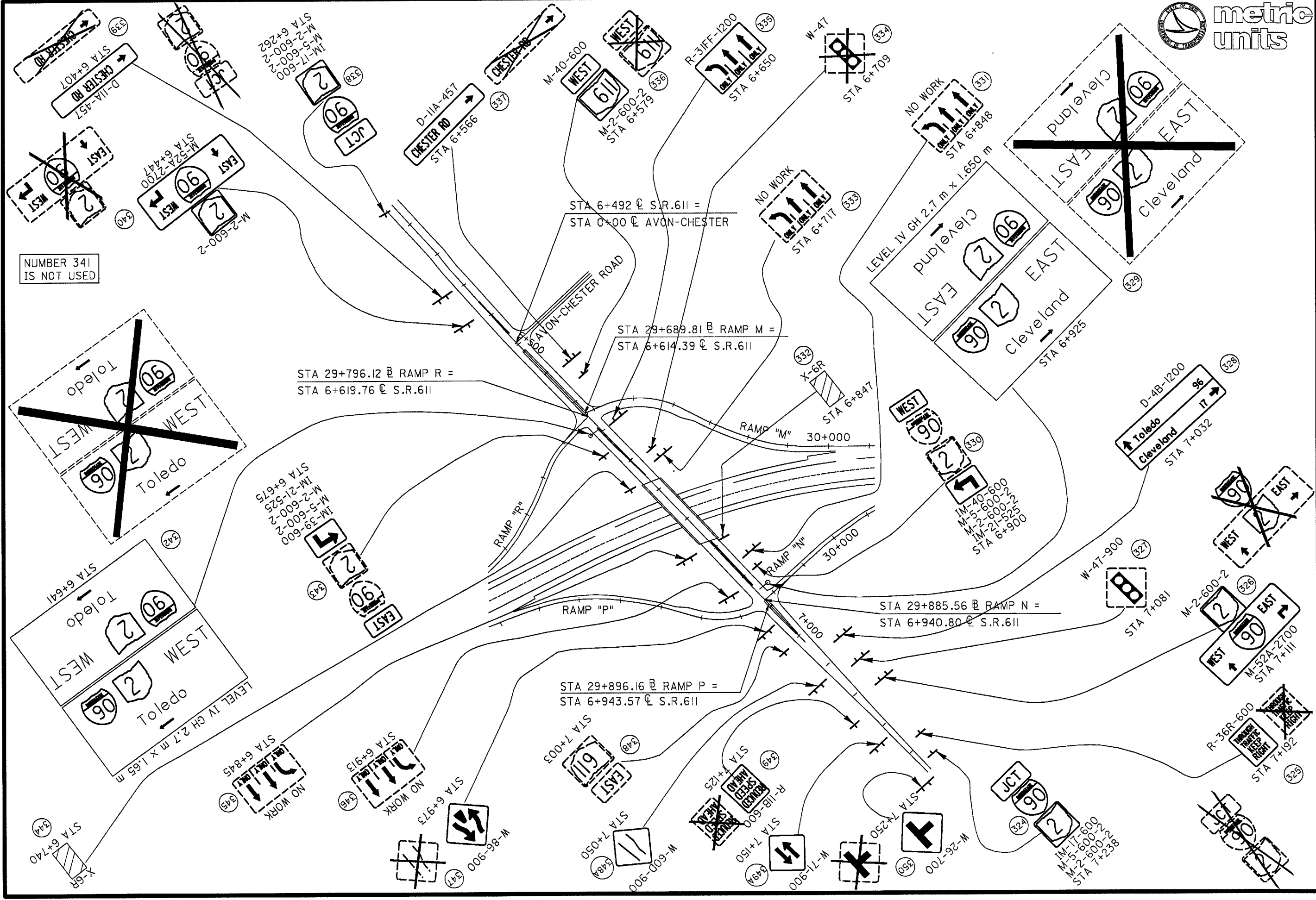
611b



HORIZONTAL SCALE IN METERS

SIGN PLAN SHEET - S.R. 611 INTERCHANGE

LOR-90-15.257  
LOR-2-15.289



NUMBER 341 IS NOT USED

PLAN\_611







Plan Sheet Reference No.	Elevation Sheet No.	Sign Number	Location	Station	Code Number	Sign Size (Meters)		SIGNS				Removal of Ground Mounted Support	Removal of Ground Mounted Sign and Disposal	Removal of Overhead Mounted Sign and Disposal	GROUND MOUNTED SUPPORTS										Sign Backing Assembly	Reflectors, Type "D", As Per Plan	Concrete for Embedded Foundations	Breakaway Connection											
								Extrusheet, Type G	Flat Sheet, Type F, As Per Plan (Hinged)	Flat Sheet, Type F	Flat Sheet, Type G				Post	Beam	Minor	Major	One-Way No. 3	No. 2	No. 3	No. 4	Type L Wood Beam	Type M Wood Beam					S4 x 7.7 Beam	W10 x 12 Beam	W10 x 22 Beam	W12 x 30 Beam							
						Width	Height																										SQ m	EACH	meter	Each	Each	CU m	Each
16		77	I 90	27+445 RT EB	N-41-300	0.305	1.219			0.4		1		1			3.7																						
17	44	78	I 90	27+968 RT EB	GEP-2439 GB	2.438 3.900	0.610 3.600	1.5 14.0						1	1																								
17	44	79	I 90	28+234 RT EB	GN	3.300	1.100	3.6				2			1						5.5 / 6.3																		
17		80	I 90	28+244 RT EB	X-6R	0.305	0.914			0.3		1		1			4.1																						
17		81	I 90	28+245 LT EB	X-6L	0.305	0.914			0.3		1		1			4.1																						
17		82	I 90	28+739 MED	R-123-900 R-19-600 R-123-900 R-19-600	0.914 0.610 0.914 0.610	0.914 0.762 0.914 0.762		0.8		0.5	0.8	1		2					4.4																			
17	45	83	I 90	28+750 RT EB	GEP-2439 GE	2.438 3.900	0.610 3.600	1.5 14.0																															
17		84	I-90	29+056 RT EB	N-41-300	0.305	1.219			0.4		1		1			3.7																						
17		85	I 90	29+328 RT EB	GEP-2439 GE	2.438 3.900	0.610 3.600	1.5 14.0						1	1																								
17		86	I 90	29+461 LT EB	X-6L	0.305	0.914			0.3		1		1			4.1																						
17		87	I 90	29+461 RT EB	X-6R	0.305	0.914			0.3		1		1			4.1																						
17		88	I 90	29+591 RT EB	GF							2		1																									
17	45	88A	I 90	29+597 RT EB	GF	2.400	1.500	3.6																															
18		89	I 90	30+130 RT EB	W-49R-1200	1.219	1.219			1.5		2		1																									
18		90	I 90	30+674 RT EB	N-41-300	0.305	1.219			0.4		1		1			3.7																						
		91		NOT USED																																			
<b>SUBTOTALS</b>								53.8	0.0	4.6	1.7	15	0	15	3	0	0.0	27.5	9.2	8.8	0.0	11.8	10.0	0.0	9.6	18.0	3	2	4.06	5									

CALC BY JBC  
CHKD BY JAL

SIGN SUB-SUMMARY - REFERENCE NUMBERS 77 - 91

LOR-90-15.257  
LOR-2-15.289











Table with columns for Plan Sheet Reference No., Elevation Sheet No., Sign Number, Location, Station, Code Number, Sign Size (Meters), SIGNs (Extrusheet, Flat Sheet, Removal of Ground Mounted Support, Removal of Overhead Mounted Sign), GROUND MOUNTED SUPPORTS (One-Way No., No. 2, No. 3, No. 4, Type L Wood Beam, Type M Wood Beam, S4 x 7.7 Beam, W10 x 12 Beam, W10 x 22 Beam, W12 x 30 Beam), Sign Backing Assembly, Reflectors, Concrete for Embedded Foundations, Breakaway Connection.

CALC BY TBC  
CHKD BY PAL

SIGN SUB-SUMMARY - REFERENCE NUMBERS 181 - 202

LOR-90-15.257  
LOR-2-15.289





Plan Sheet Reference No.	Elevation Sheet No.	Sign Number	Location	Station	Code Number	Sign Size (Meters)		SIGNS				Removal of Overhead Mounted Sign and Disposal	GROUND MOUNTED SUPPORTS								Sign Backing Assembly	Reflectors, Type "D", As Per Plan	Concrete for Embedded Foundations	Breakaway Connection	CALC BY TBC CHKD BY JAL														
						Width	Height	Extrusheet, Type G	Flat Sheet, Type F, As Per Plan (Hinged)	Flat Sheet, Type F	Flat Sheet, Type G		Removal of Ground Mounted Support		Removal of Ground Mounted Sign and Disposal		One-Way No. 3	No. 2	No. 3	No. 4						Type L Wood Beam	Type M Wood Beam	S4 x 7.7 Beam	W10 x 12 Beam	W10 x 22 Beam	W12 x 30 Beam	Each	Each	CU m	Each				
													Post	Beam	Minor	Major																				meter			
23	258	TPK		16+075	NO WORK																																		
23	259	TPK		16+061 RT WB 16+061 RT WB	NO WORK																																		
23	260	TPK		15+989 RT WB 15+989 RT WB	NO WORK																																		
23	261	TPK		15+910 RT WB 15+910 LT WB	R-41B-900 R-41B-900	0.914 0.914	0.914 0.914																																
23	262	TPK		15+947 RT EB	R-55-300	0.305	0.457																																
23	263	TPK		16+203 RT EB	R-10-900	0.914	1.219																																
				S.R. 254																																			
24	264	RAMP L		24+495 RT	W-45-900	0.914	0.914																																
24	47 265	RAMP L		24+657 RT	M-2-600-3 M-25-525 D-4B-1200 D-4A-800	0.762 0.533 2.350 2.350	0.610 0.381 1.219 0.610																																
24	266	RAMP L		24+751 RT 24+751 LT	R-41A-900 R-41A-900	0.914 0.914	0.610 0.610																																
24	267	RAMP L		24+796 RT	R-1-1200 R-41B-900	1.219 0.914	1.219 0.914																																
24	268	RAMP L		24+796 LT	R-41B-900 R-43L-1200 R-43R-1200	0.914 1.219 1.219	0.914 0.457 0.457																																
24	269	RAMP K		24+764 RT	R-15A-900	0.914	0.914																																
24	270	RAMP J		24+842 RT	W-45-900	0.914	0.914																																
24	271	RAMP J		24+766 RT	M-2-600-3 M-25-525 D-4B-1200 D-4A-800	0.762 0.533 2.350 2.350	0.610 0.381 1.219 0.610																																
24	272	RAMP J		24+658 RT 24+658 LT	R-41A-900 R-41A-900	0.914 0.914	0.610 0.610																																
24	273	RAMP J		24+823 LT	R-41A																																		
24	274	RAMP J		24+823 RT	R-1 R-41B																																		
24	275	RAMP J		24+820 RT	R-1-1200 R-41B-900	1.219 0.914	1.219 0.914																																
24	276	RAMP J		24+820 LT	R-41B-900 R-43R-1200 R-43L-1200	0.914 1.219 1.219	0.914 0.457 0.457																																
24	277	RAMP H		24+590 RT	R-15A-900	0.914	0.914																																
<b>SUBTOTALS</b>								8.6	0.0	5.9	12.4	24	0	26	0	0	0.0	81.8	16.8	19.2	0.0	0.0	0.0	12.1	0.0	0.0	2	0	1.20	2									

SIGN SUB-SUMMARY - REFERENCE NUMBERS 258 - 277

LOR-90-15.257  
LOR-2-15.289

39  
48

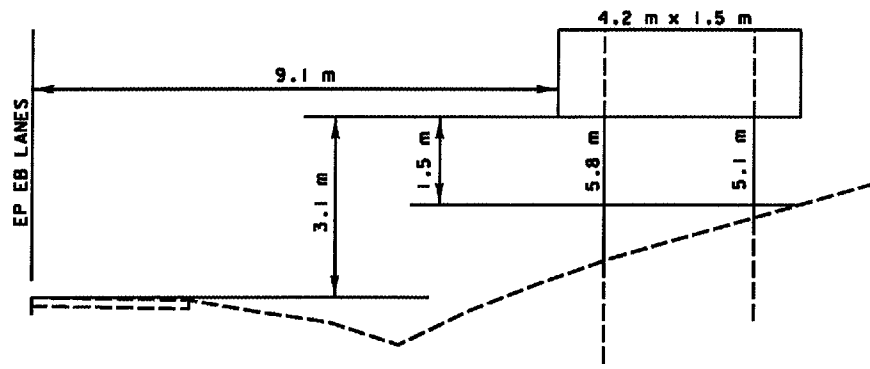




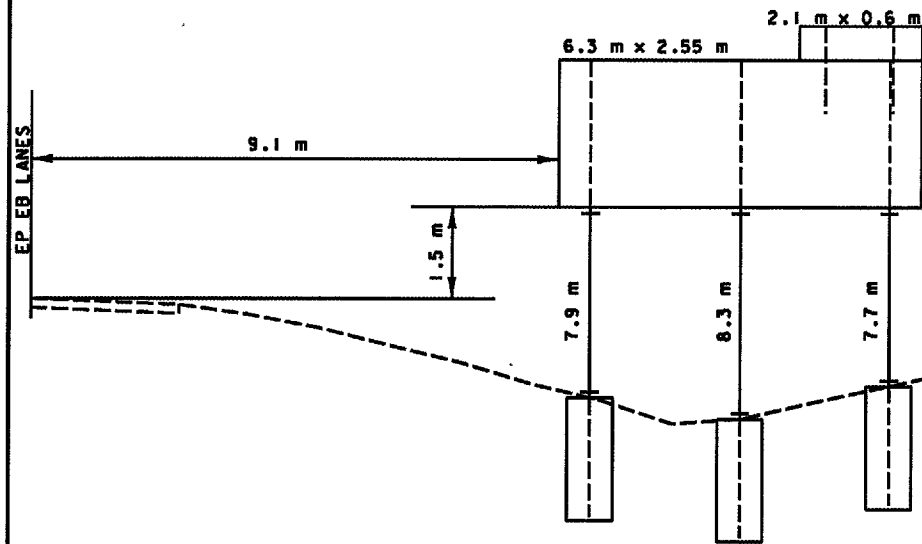




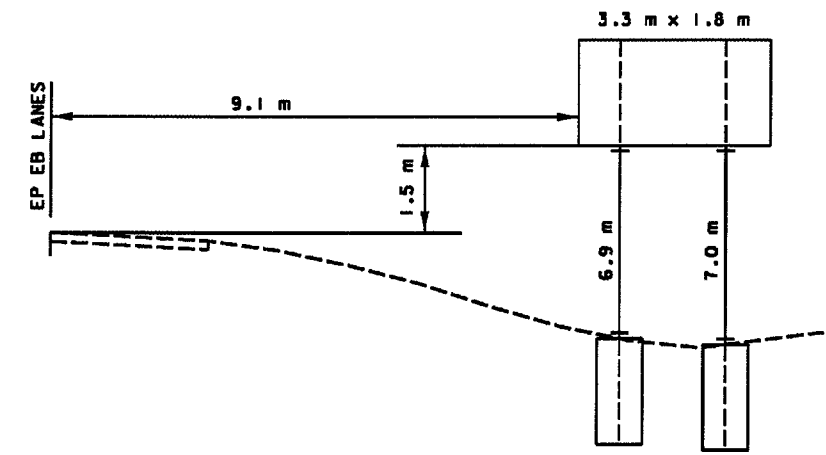
\*\* DUE TO EXISTING FOLIAGE  
CONSIDER THIS ELEVATION  
APPROXIMATE.



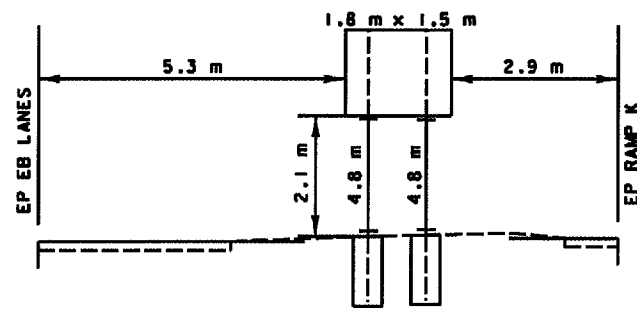
3 STA 13+476 RT, EB SR 2 \*\*  
TYPE M - EMBEDMENT DEPTH 1.8 m



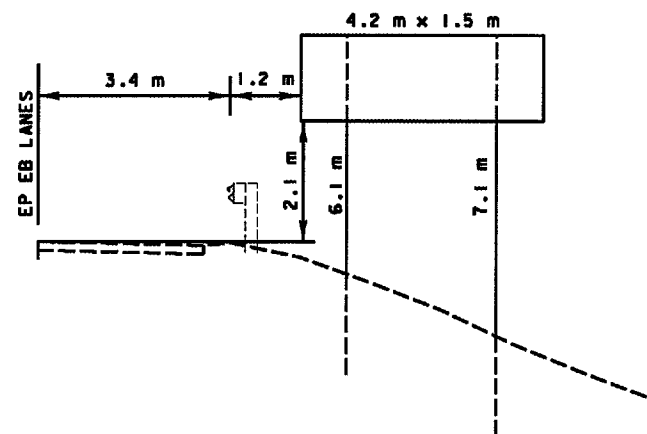
6 STA 14+687 RT, EB SR 2  
TYPE W10 X 22



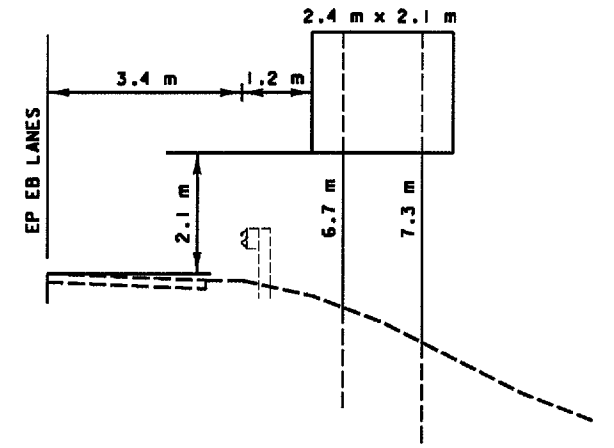
8 STA 14+687 RT, EB SR 2  
TYPE W10 X 12



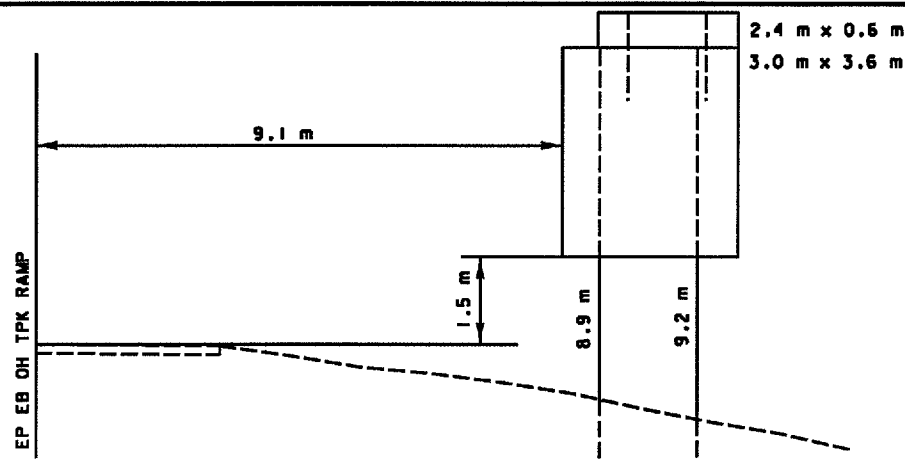
10 STA 15+304 RT, EB SR 2  
TYPE S4 X 7.7



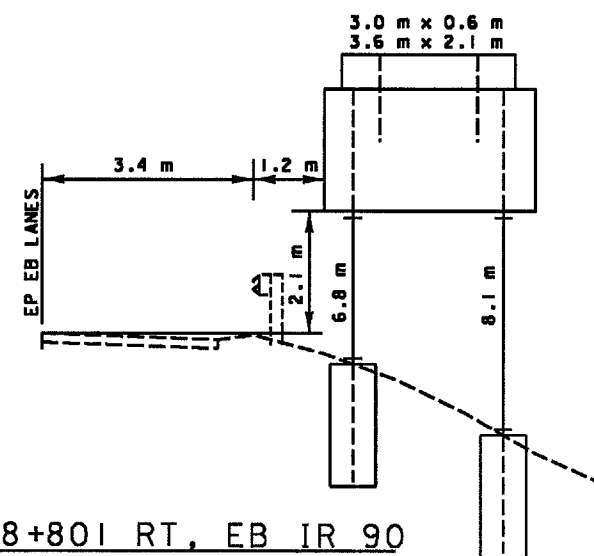
18 STA 16+897 RT, EB SR 2  
TYPE L - EMBEDMENT DEPTH 1.8 m



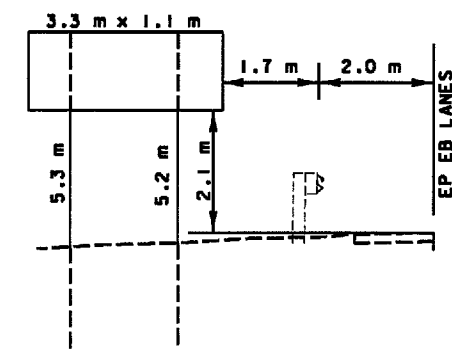
19 STA 17+130 RT, EB SR 2  
TYPE M - EMBEDMENT DEPTH 1.8 m



25 STA 17+981 RT, EB SR 2  
TYPE L - EMBEDMENT DEPTH 2.7 m



34 STA 18+801 RT, EB IR 90  
TYPE W10 X 22



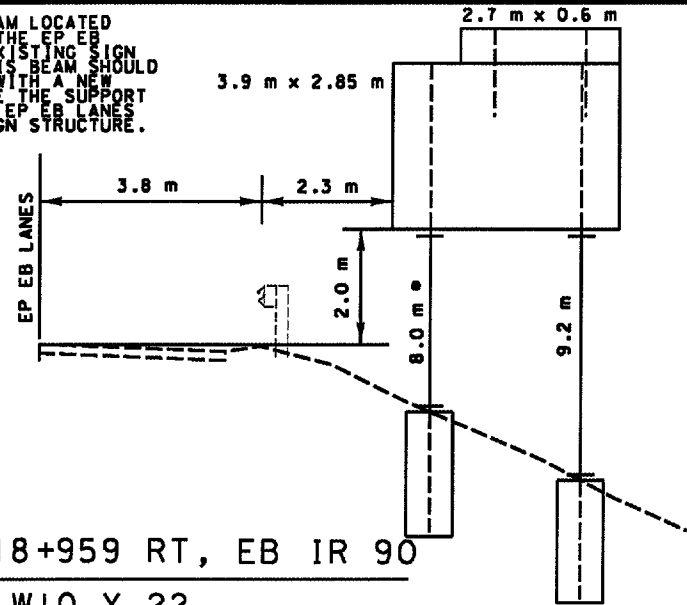
35 STA 18+858 RT, EB IR 90  
TYPE M - EMBEDMENT DEPTH 1.8 m

SIGN ELEVATION PLAN - SIGN NO. 3 TO SIGN NO. 35

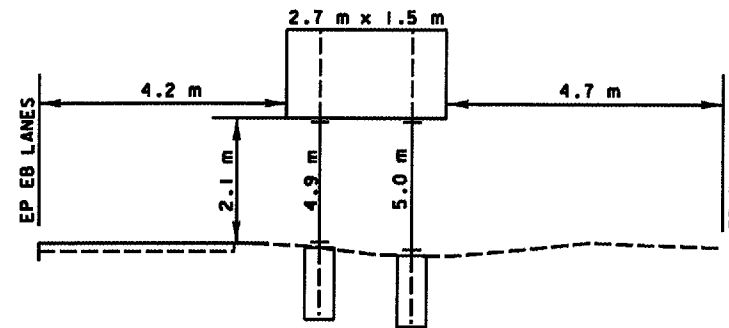
LOR-90-15.257  
LOR-2-15.289

43  
48

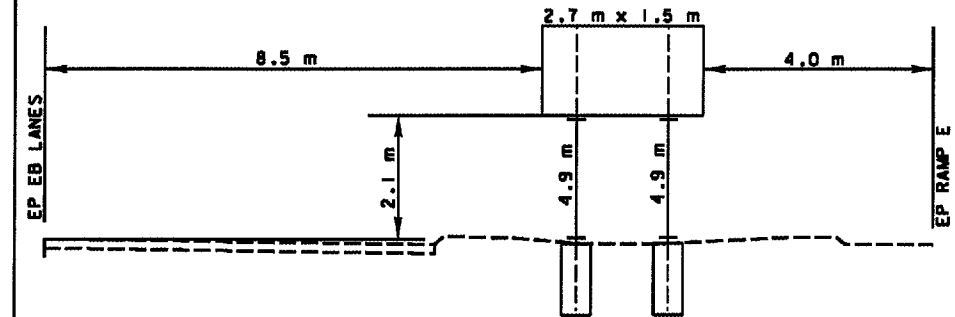
\* THIS IS THE BEAM LOCATED FARTHEST FROM THE EP EB LANES ON THE EXISTING SIGN STRUCTURE. THIS BEAM SHOULD BE USED ALONG WITH A NEW BEAM AND BECOME THE SUPPORT CLOSEST TO THE EP EB LANES FOR THE NEW SIGN STRUCTURE.



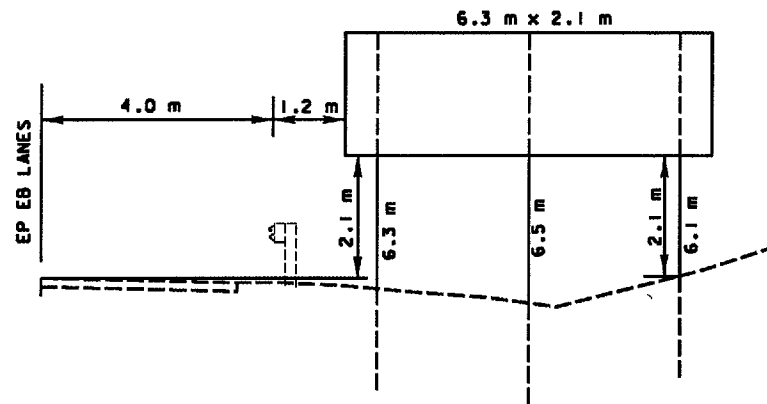
38 STA 18+959 RT, EB IR 90  
TYPE W10 X 22



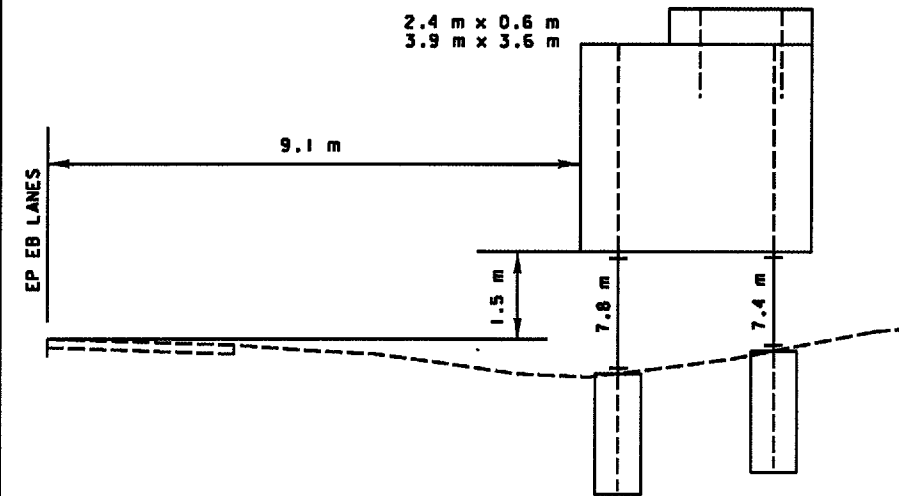
40A STA 20+433 RT, EB IR 90  
TYPE S4 X 7.7



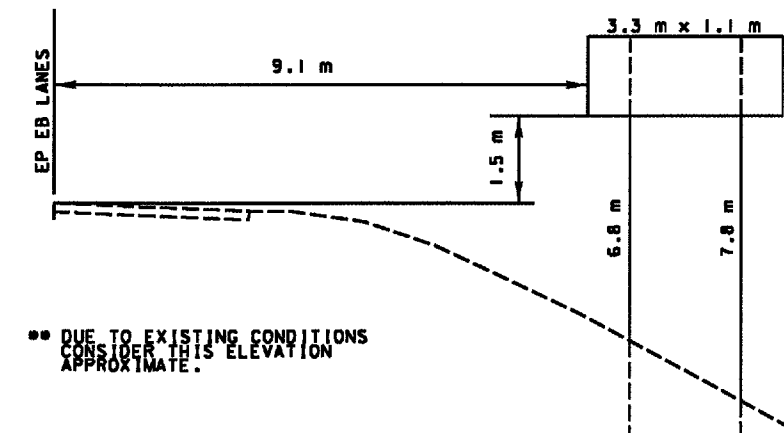
47 STA 20+926 RT, EB IR 90  
TYPE S4 X 7.7



65 STA 23+303 RT, EB IR 90  
TYPE L - EMBEDMENT DEPTH 1.8 m

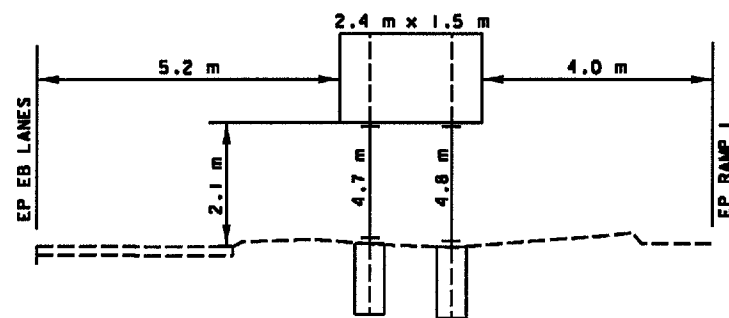


66 STA 23+598 RT, EB IR 90  
TYPE W10 X 22



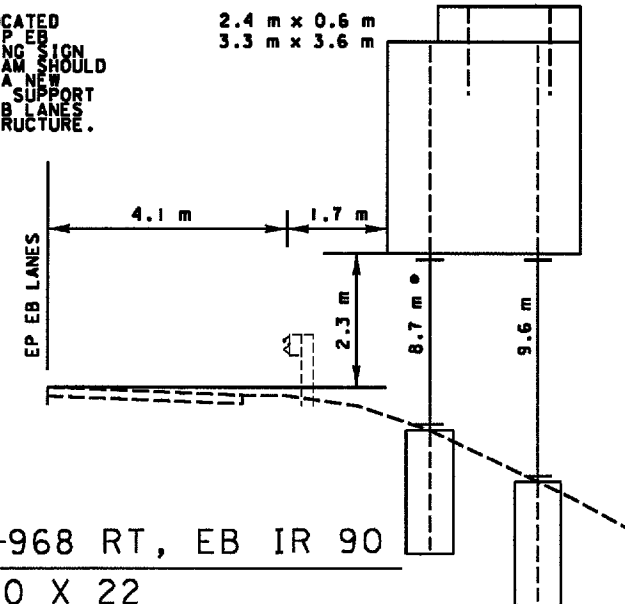
67 STA 23+966 RT, EB IR 90 \*\*  
TYPE L - EMBEDMENT DEPTH 1.8 m

\*\* DUE TO EXISTING CONDITIONS CONSIDER THIS ELEVATION APPROXIMATE.

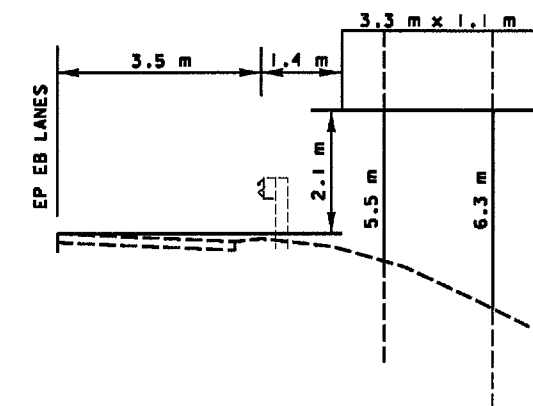


70A STA 24+521 RT, EB IR 90  
TYPE S4 X 7.7

\* THIS IS THE BEAM LOCATED FARTHEST FROM THE EP EB LANES ON THE EXISTING SIGN STRUCTURE. THIS BEAM SHOULD BE USED ALONG WITH A NEW BEAM AND BECOME THE SUPPORT CLOSEST TO THE EP EB LANES FOR THE NEW SIGN STRUCTURE.

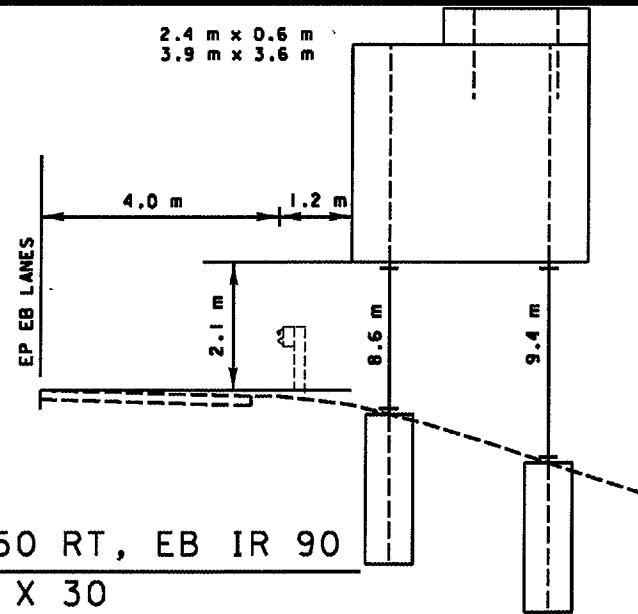


78 STA 27+968 RT, EB IR 90  
TYPE W10 X 22

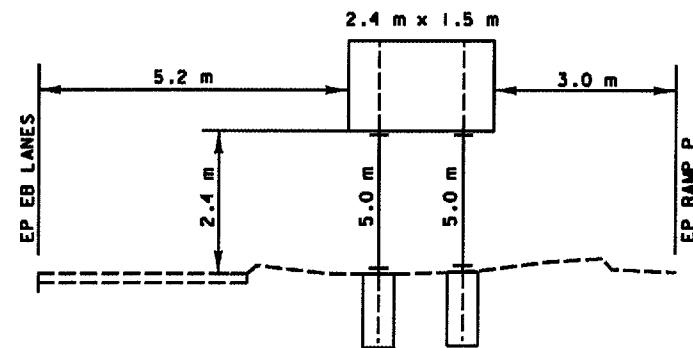


79 STA 28+234 RT, EB IR 90  
TYPE M - EMBEDMENT DEPTH 1.8 m

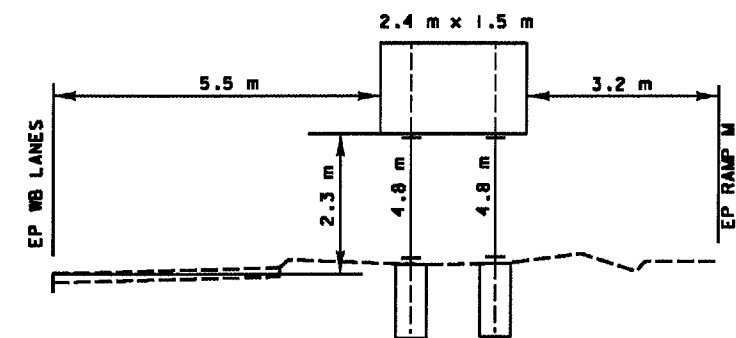
ELEV2



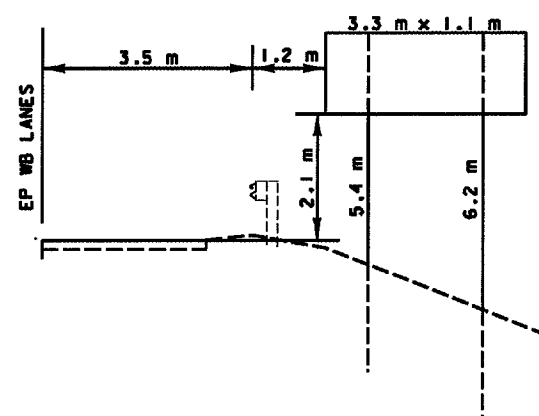
83 STA 28+750 RT, EB IR 90  
TYPE WI2 X 30



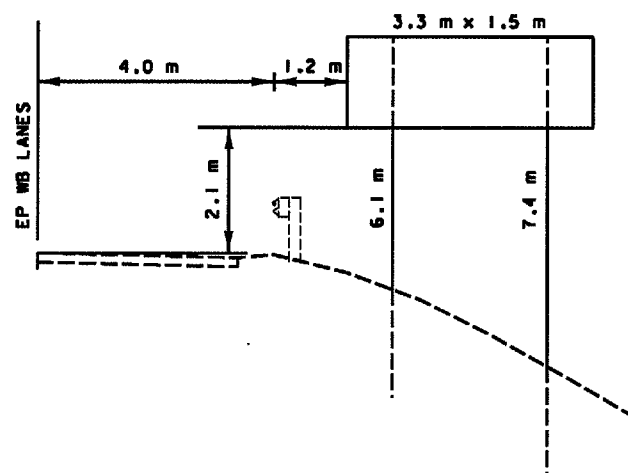
88A STA 29+597 RT, EB IR 90  
TYPE S4 X 7.7



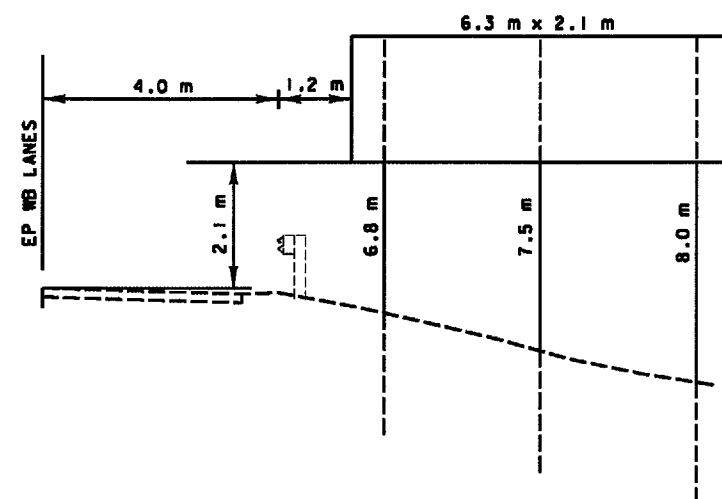
94 STA 29+994 RT, WB IR 90  
TYPE S4 X 7.7



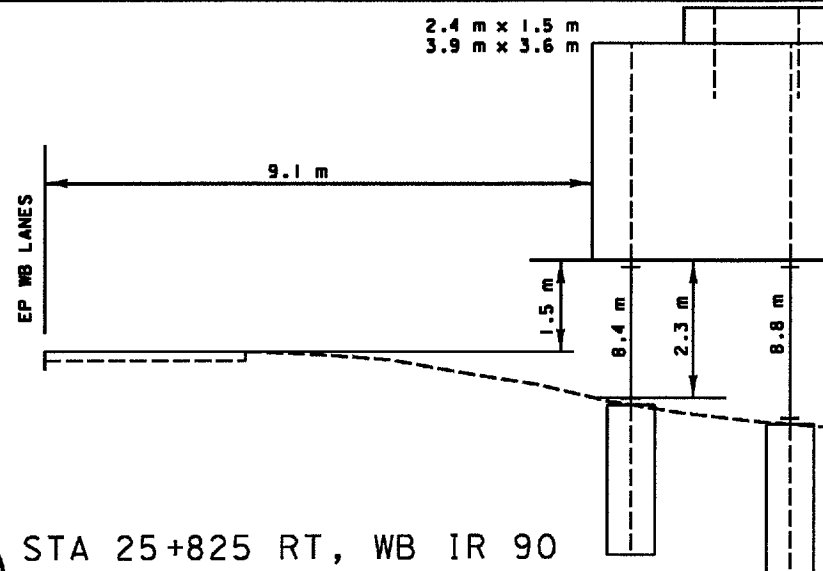
104 STA 28+266 RT, WB IR 90  
TYPE M - EMBEDMENT DEPTH 1.8 m



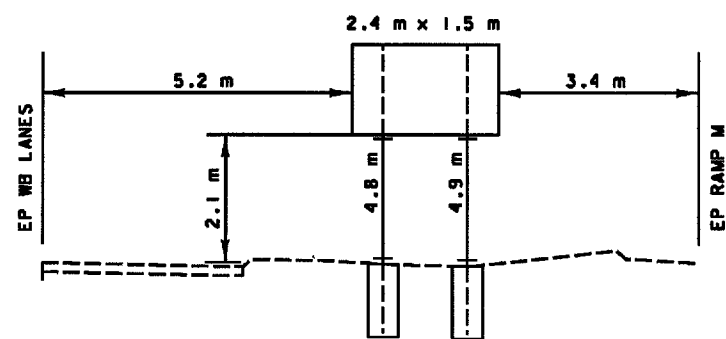
105 STA 27+950 RT, WB IR 90  
TYPE L - EMBEDMENT DEPTH 1.8 m



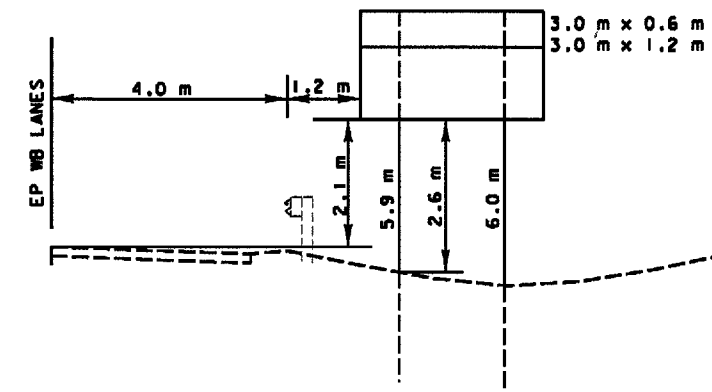
108 STA 26+152 RT, WB IR 90  
TYPE L - EMBEDMENT DEPTH 2.1 m



110 STA 25+825 RT, WB IR 90  
TYPE WI2 X 30

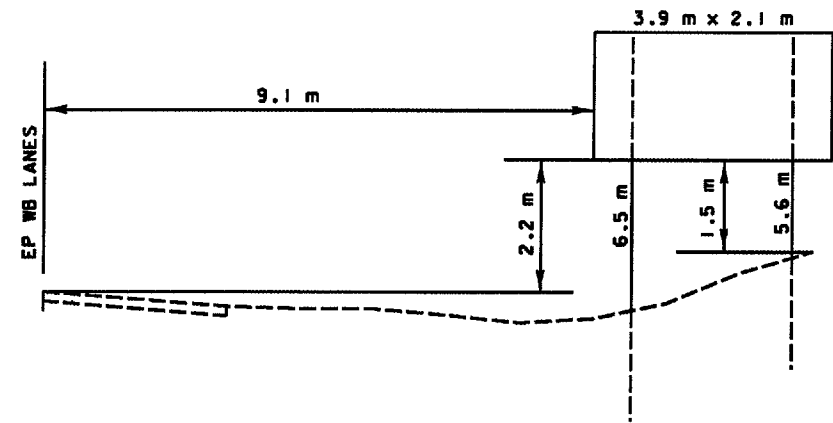


113 STA 24+906 RT, WB IR 90  
TYPE S4 X 7.7

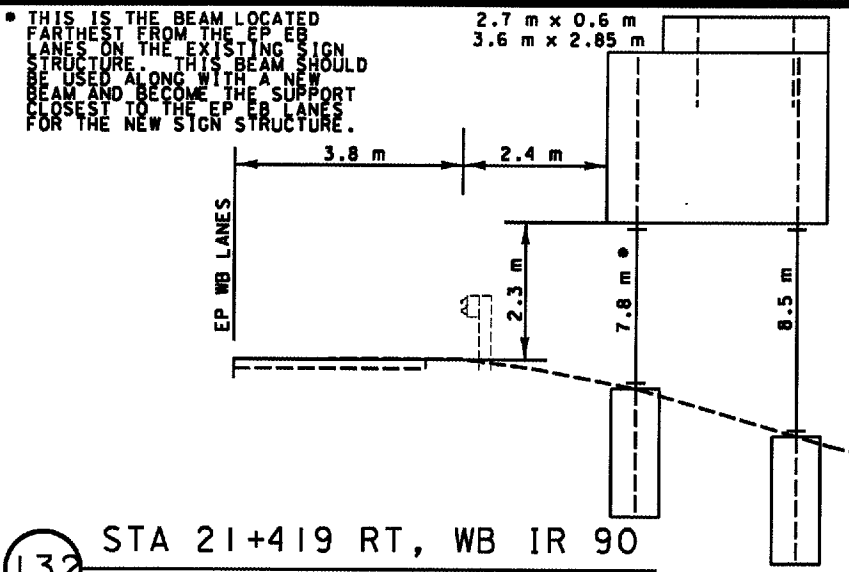


129 STA 22+289 RT, WB IR 90  
TYPE M - EMBEDMENT DEPTH 1.8 m

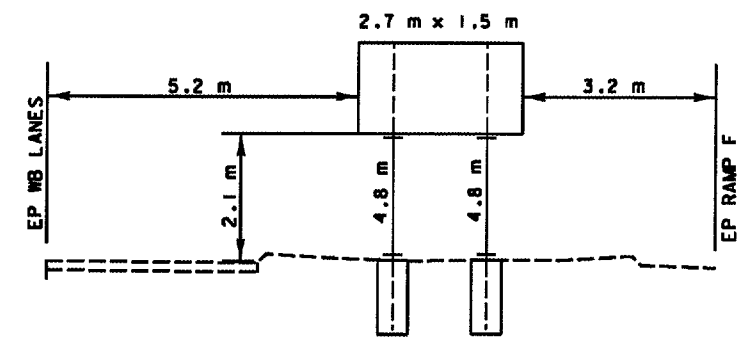
ELEV3



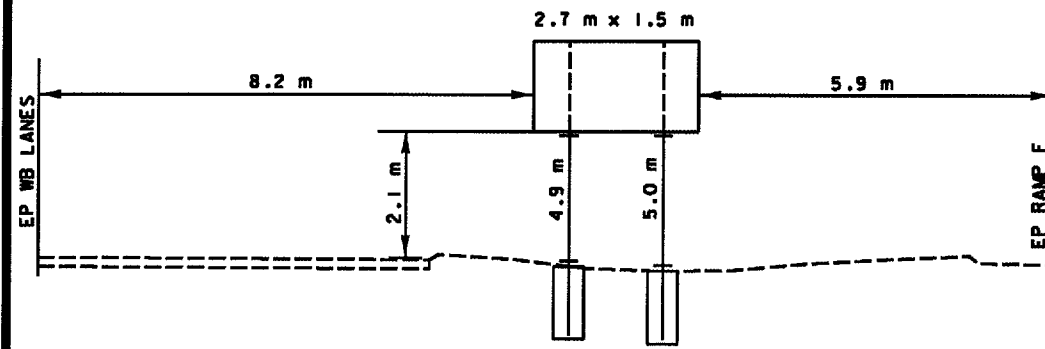
131 STA 21+737 RT, WB IR 90  
TYPE L - EMBEDMENT DEPTH 1.8 m



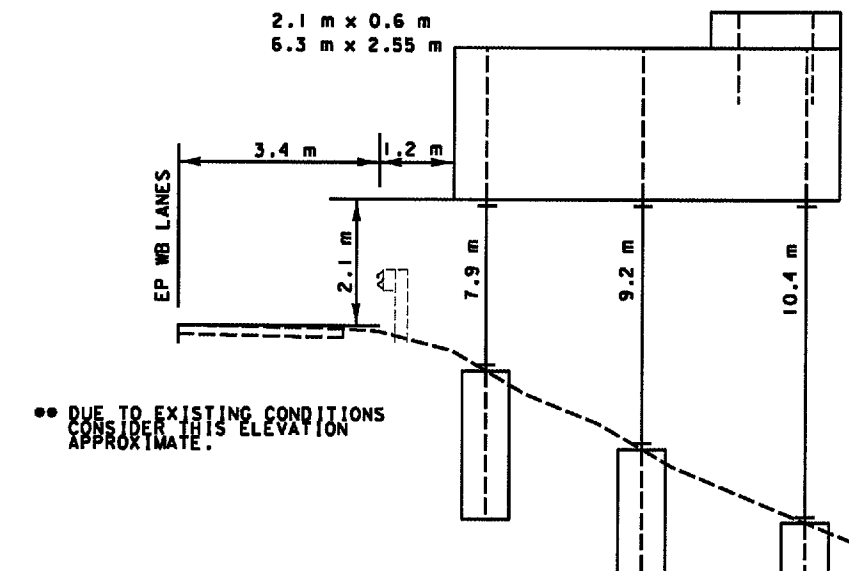
132 STA 21+419 RT, WB IR 90  
TYPE W10 X 22



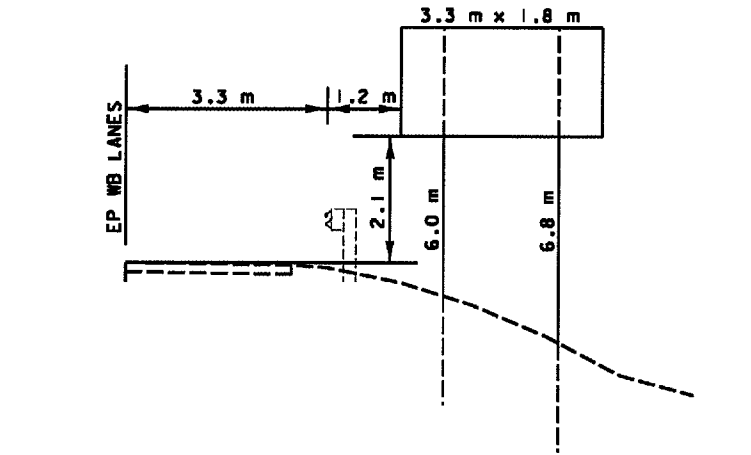
136 STA 21+132 RT, WB IR 90  
TYPE S4 X 7.7



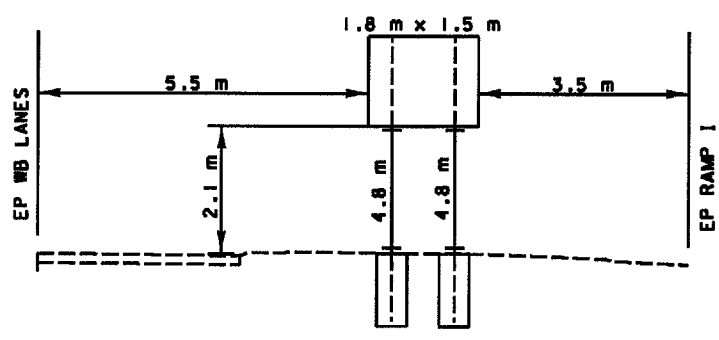
143 STA 20+649 RT, WB IR 90  
TYPE S4 X 7.7



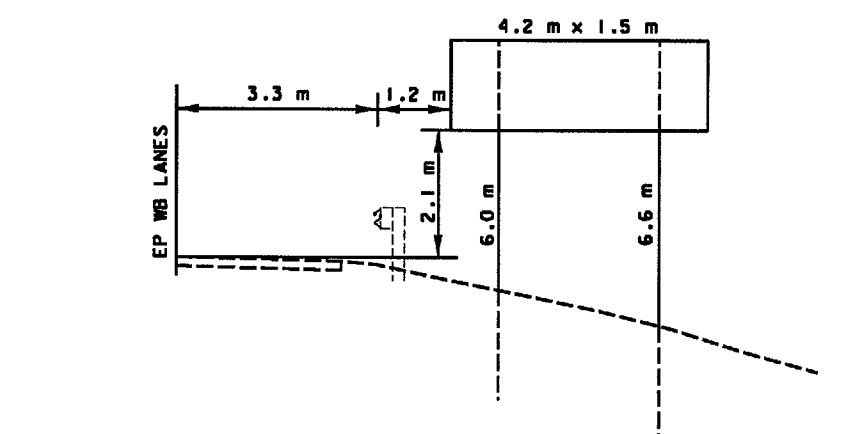
163 STA 16+765 RT, WB SR 2  
TYPE W12 X 30



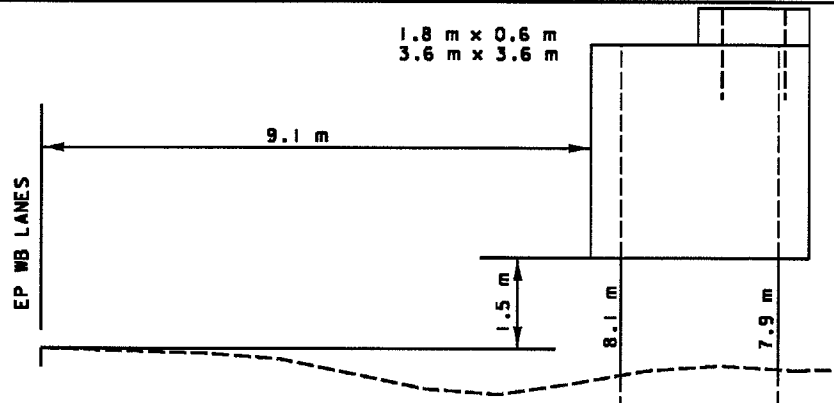
164 STA 16+521 RT, WB SR 2  
TYPE M - EMBEDMENT DEPTH 1.8 m



168 STA 15+879 RT, WB SR 2  
TYPE S4 X 7.7



175 STA 14+401 RT, WB SR 2  
TYPE M - EMBEDMENT DEPTH 1.8 m

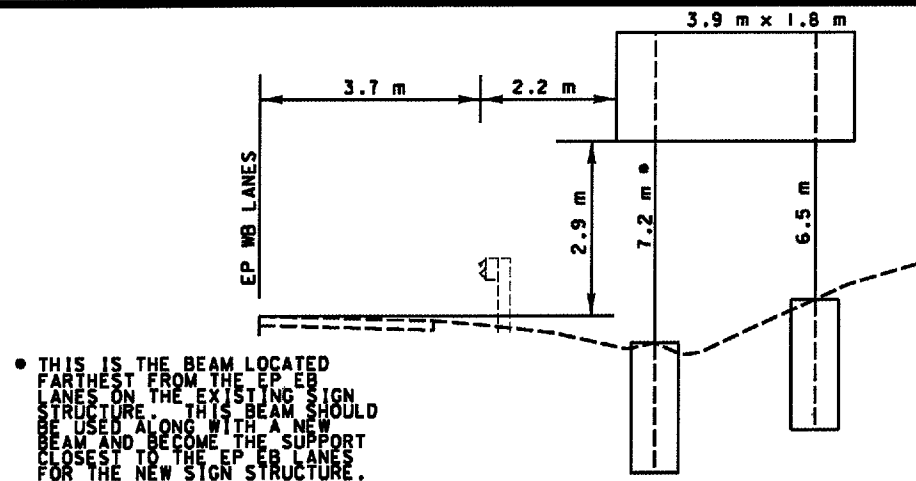


176 STA 14+225 RT, WB SR 2  
TYPE L - EMBEDMENT DEPTH 2.4 m

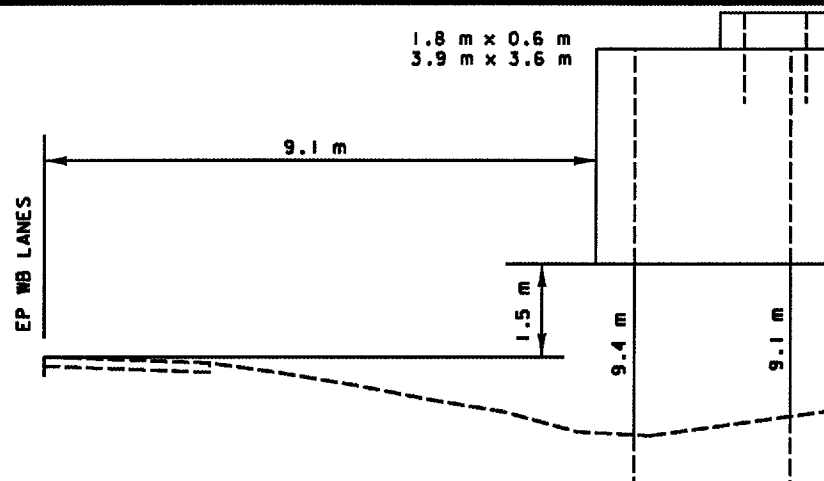
THIS IS THE BEAM LOCATED FARTEST FROM THE EP EB LANES ON THE EXISTING SIGN STRUCTURE. THIS BEAM SHOULD BE USED ALONG WITH A NEW BEAM AND BECOME THE SUPPORT CLOSEST TO THE EP EB LANES FOR THE NEW SIGN STRUCTURE.

•• DUE TO EXISTING CONDITIONS CONSIDER THIS ELEVATION APPROXIMATE.

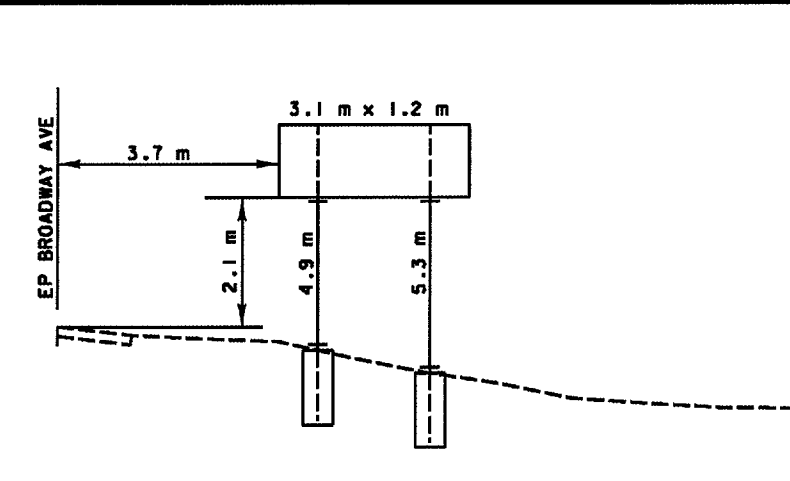
ELEV4



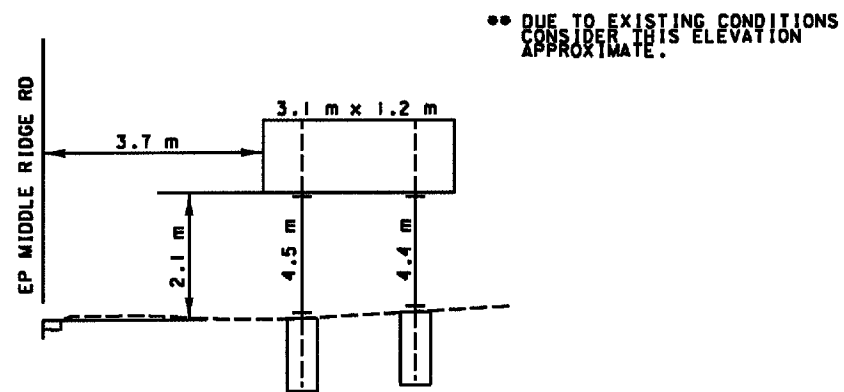
178 STA 13+321 RT, WB SR 2  
TYPE W10 X 22



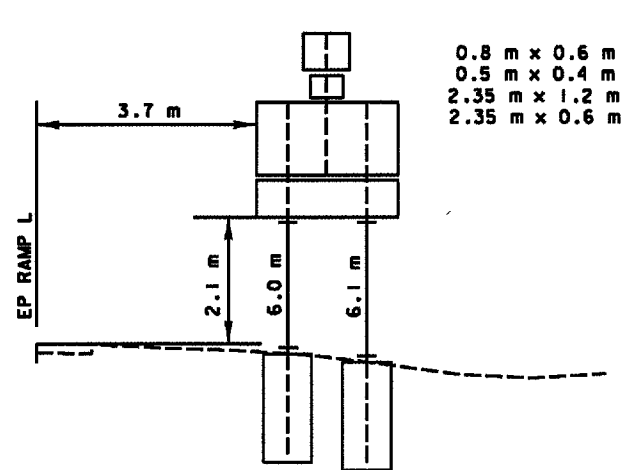
180 STA 13+055 RT, WB SR 2  
TYPE L - EMBEDMENT DEPTH 3.1 m



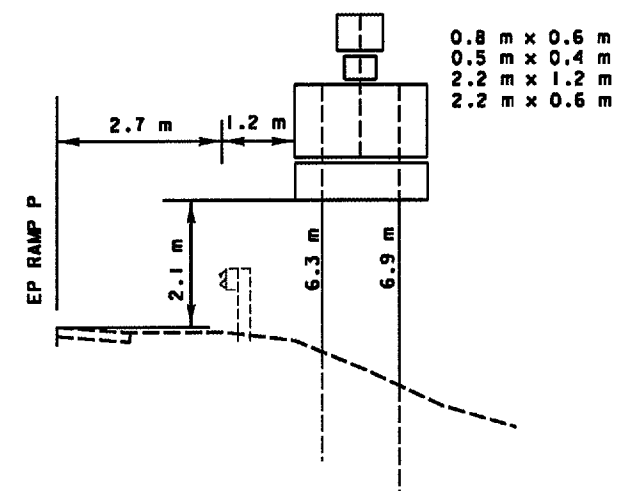
203 STA 1+810 RT, BROADWAY AVE  
TYPE S4 X 7.7



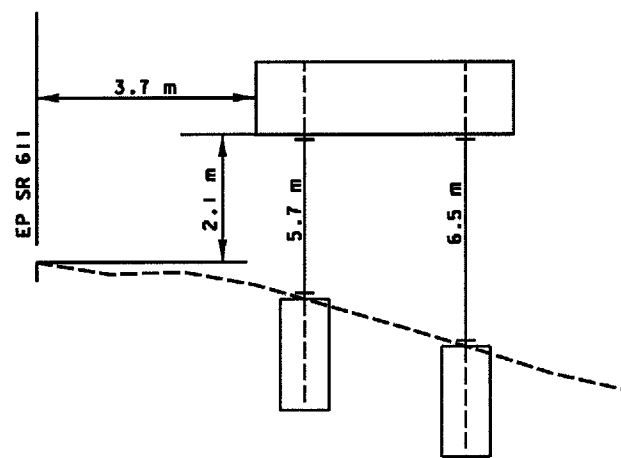
224 STA 1+337 RT, MIDDLE RIDGE RD  
TYPE S4 X 7.7



265 STA 24+657 RT, SR 254 RAMP L  
TYPE W10 X 12

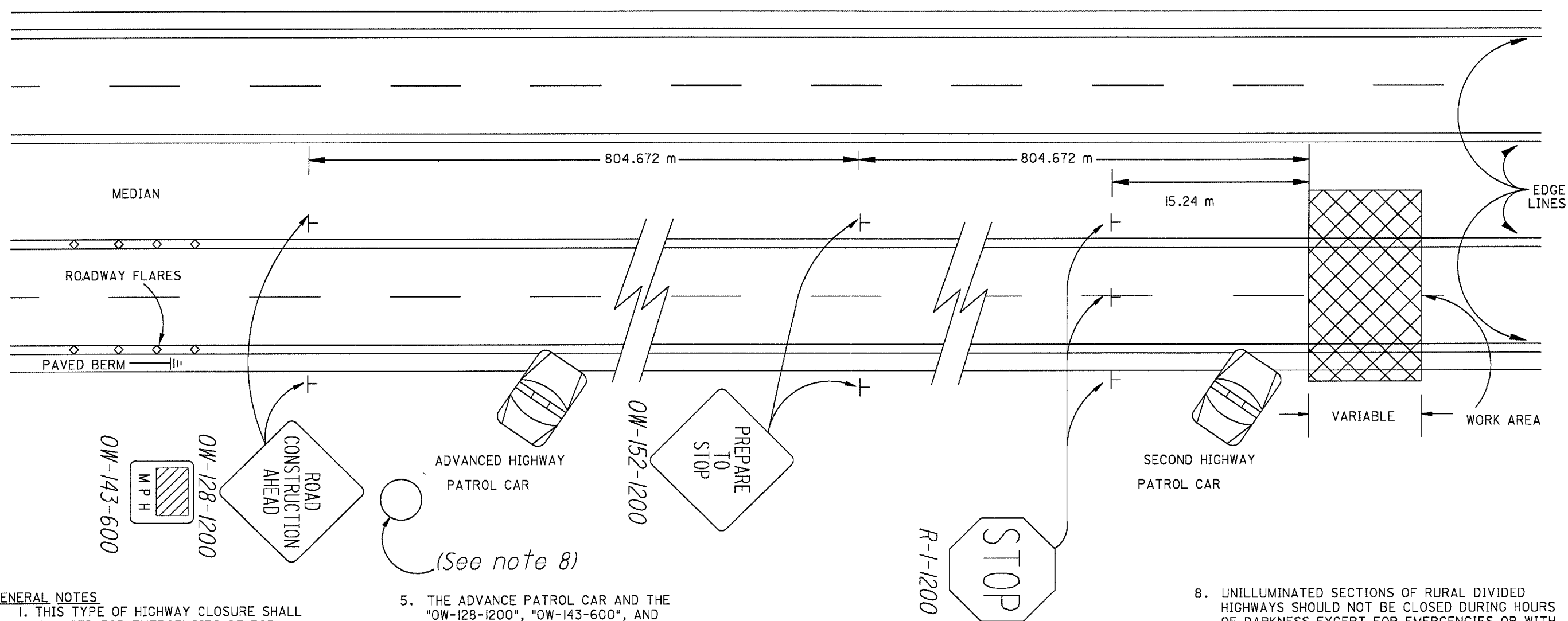


308 STA 29+733 RT, SR 611 RAMP P  
TYPE M - EMBEDMENT DEPTH 1.8 m



328 STA 7+032 RT, SR 611  
TYPE W10 X 12

ELEVS



**GENERAL NOTES**

1. THIS TYPE OF HIGHWAY CLOSURE SHALL BE USED FOR EMERGENCIES OF FOR CONSTRUCTION OPERATIONS WHEN THE DURATION OF CLOSURE WILL NOT EXCEED 15 MINUTES. AFTER THE RURAL DIVIDED HIGHWAY HAS BEEN CLOSED AND REOPENED VIA THIS PROCEDURE A MINIMUM PERIOD OF 30 MINUTES SHALL ELAPSE BEFORE ANOTHER SHORT DURATION CLOSURE, EXCEPT WITH APPROVAL OF THE ENGINEER.
2. AT LEAST TWO PATROLMEN AND TWO PATROL CARS SHALL BE PROVIDED ON EACH APPROACH TO THE CLOSURE. EACH PATROL CAR SHALL HAVE A ROOF MOUNTED ROTATING RED LIGHT OR A LIGHT BAR.
3. A MINIMUM OF FOUR FLARES SHALL BE BURNING CONTINUOUSLY ON EACH SIDE OF THE "OW-128-1200" SIGN DURING THE TIME THAT TRAFFIC IS STOPPED ON THE RURAL DIVIDED HIGHWAY.
4. ROAD CLOSURES ARE NOT PERMITTED ON HOLIDAYS, WEEKENDS OR BETWEEN THE HOURS OF 6 AM TO 9 AM, 11 AM TO 1 PM AND 3 PM TO 6 PM ON MONDAY THROUGH FRIDAY, EXCEPT BY PERMISSION OF THE ENGINEER.
5. THE ADVANCE PATROL CAR AND THE "OW-128-1200", "OW-143-600", AND "OW-152-1200" SIGNS SHALL BE MOVED BACK AS REQUIRED BY THE QUEUING OF STOPPED VEHICLES. NEW FLARES SHALL BE PLACED WHENEVER THE ADVANCE PATROL CAR IS REQUIRED TO RELOCATE.
6. TRAFFIC CONTROL FOR THE CLOSURE SHALL BE ACCOMPLISHED IN THE FOLLOWING ORDER:
  - A. ADVANCE PATROL CAR, LIGHTS, AND FLASHER ON; AT LEAST FOUR FLARES BURNING ON EACH SIDE OF ROADWAY.
  - B. "OW-128-1200" AND "OW-143-600" SIGNS ERECTED.
  - C. "OW-152-1200" SIGNS ERECTED.
  - D. SECOND PATROL CAR, LIGHTS AND FLASHERS ON.
  - E. R-1-1200 SIGNS ERECTED BY THE FLAGMEN WITH FLARE OF FLAG USED TO STOP TRAFFIC. THE ORDER OF ERECTION SHALL BE TOWARD THE MEDIAN SHOULDERS. IN THE FOLLOWING ORDER: RIGHT SHOULDER, THEN CENTER, THEN MEDIAN SHOULDER.
7. TRAFFIC CONTROL SHALL BE REMOVED IN THE FOLLOWING ORDER:
  - A. WITH TRAFFIC STOPPED ONE MAN WITH A FLARE OF FLAG SHOULD HOLD TRAFFIC AND OTHER FLAGMAN SHALL REMOVE THE "R-1-1200" SIGNS TOWARD THE RIGHT SHOULDER IN THE FOLLOWING ORDER: MEDIAN, THEN CENTER, THEN SIGN ON RIGHT SHOULDER.
  - B. AFTER ALL STOPPED VEHICLES HAVE STARTED MOVING, THE "OW-152-1200" SIGNS SHALL BE REMOVED. THESE SIGNS MAY BE COVERED IF RE-USE IS IMMINENT.
  - C. AFTER ALL CARS HAVE RESUMED APPROXIMATELY NORMAL SPEED, THE "OW-128-1200" AND "OW-143-600" SIGNS SHALL BE REMOVED. THESE SIGNS MAY BE COVERED IF RE-USE IS IMMINENT.
  - D. LIGHTS AND FLASHERS SHALL BE TURNED OFF ON BOTH PATROL CARS.
  - E. REMOVE ALL ROADWAY FLARES IF THEY ARE STILL BURNING.
8. UNILLUMINATED SECTIONS OF RURAL DIVIDED HIGHWAYS SHOULD NOT BE CLOSED DURING HOURS OF DARKNESS EXCEPT FOR EMERGENCIES OR WITH THE APPROVAL OF THE ENGINEER. WHEN A RURAL DIVIDED HIGHWAY MUST BE CLOSED DURING HOURS OF DARKNESS, A TYPE B HIGH INTENSITY FLASHING BARRICADE WARNING LIGHT SHALL BE USED ON EACH OW-128 AND OW-152 SIGN.
9. IF AN ENTRANCE RAMP IS LOCATED BETWEEN THE OW-128 AND R-1 SIGNS, THE "OW-128-1200", "OW-143-600", AND THE "OW-152-1200" SIGNS SHALL ALSO BE ERECTED ON THE RAMP SHOULDER.

(See note 8)

CLOSRD

**SIGNING AND PAVEMENT MARKING PLAN**

LOR-90-15.257  
LOR-2-15.289