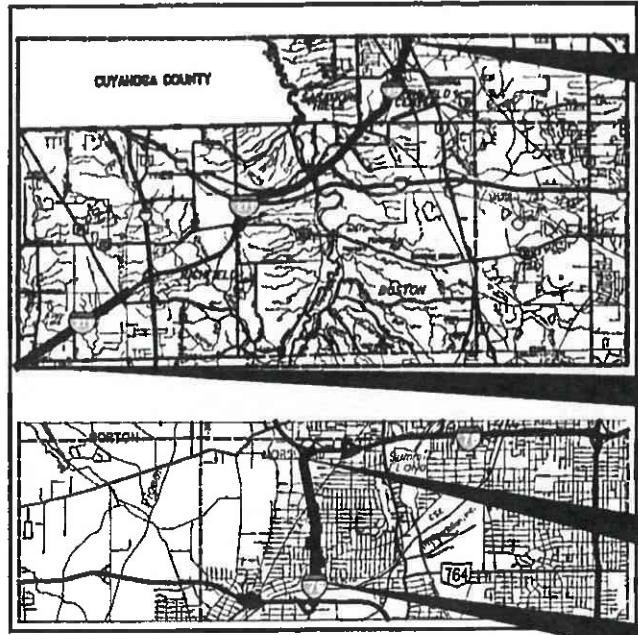


SUM - IR 76/VAR-06.90/VAR Signs  
 200120 PID - 105080  
 Dist 4 2/27/2020

Contract Proposal Available @  
 www.contracts.dot.state.oh.us/home

I:\ProjectData\SUM\105080\_SIGNS\Design\Roadway\Sheets\SIGNS\G100.dgn Sheet 11/27/2019 12:43:57 PM crees



END PROJECT  
 SLM 11.45  
 SUM-IR-271

BEGIN PROJECT  
 SLM 0.00  
 SUM-IR-271

END PROJECT  
 SLM 8.24  
 SUM-IR-76

BEGIN PROJECT  
 SLM 6.90  
 SUM-IR-76

STATE OF OHIO  
 DEPARTMENT OF TRANSPORTATION  
**SUM-76 / VAR-6.90 / VAR SIGNS**  
 BATH, BOSTON, NORTHFIELD CENTER  
 AND RICHFIELD TOWNSHIPS  
 CITIES OF GREEN, AKRON,  
 BARBERTON, AND RICHFIELD  
 SUMMIT COUNTY

**INDEX OF SHEETS:**

TITLE SHEET	1
GENERAL NOTES	2
MAINTENANCE OF TRAFFIC NOTES	3-6
GENERAL SUMMARY	7
I-271 SIGNING SUBSUMMARY	8-10
I-76 SIGNING SUBSUMMARY	11-12
I-77 SIGNING SUBSUMMARY	13
SR-8 SIGNING SUBSUMMARY	13A
I-271 SIGNING PLAN	14-20
I-76 SIGNING PLAN	21-22,22A
I-77 SIGNING PLAN	23-24,24A,24B
SR-8 SIGNING PLAN	24C
CROSS SECTIONS	25-30

**PROJECT DESCRIPTION**  
 FREEWAY SYSTEMATIC SIGN REPLACEMENTS ON SUM 76 FROM W. WILBETH RD TO MORSE ST. AND SUM-IR 271 FROM MEDINA COUNTY LINE TO BRECKSVILLE ROAD AND SR 303 TO SR 8. INCLUDES LEAD-IN SIGNS AND 2 OVERHEAD SIGNS ON I-77 AT SLM 23.92 & 24.15

**EARTH DISTURBED AREAS**  
 PROJECT EARTH DISTURBED AREA: N/A  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A  
 NOTICE OF INTENT EARTH DISTURBED AREA: N/A

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

**2019 SPECIFICATIONS**  
 THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVED THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 5-6 FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

**DESIGN DESIGNATION**  
 CURRENT ADT (2018) ..... 27000  
 DESIGN YEAR ADT (20 ) .....  
 DESIGN HOURLY VOLUME (20 ) .....  
 DIRECTIONAL DISTRIBUTION .....  
 TRUCKS (24 HOUR B&C) ..... 5500  
 DESIGN SPEED ..... 70  
 LEGAL SPEED ..... 65  
 DESIGN FUNCTIONAL CLASSIFICATION:  
 FREEWAYS AND INTERSTATES .....  
 NHS PROJECT ..... YES

**DESIGN EXCEPTIONS**  
 NONE



PLAN PREPARED BY:  
 ODOT DISTRICT 4, PLANNING & ENGINEERING  
 2088 S. ARLINGTON ROAD  
 AKRON, OH 44306

ENGINEERS SEAL:  
  
 SIGNED: *Rebecca MocarSKI*  
 DATE: 11-27-19

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
DM-4.3	1/15/16	TC-42.20	10/18/13	800-2019	10/18/19
DM-4.4	1/15/16	TC-51.H	1/15/16	821	4/20/12
		TC-52.10	10/18/13	832	10/19/18
TC-7.65	7/20/18	TC-52.20	7/20/18	921	4/20/12
TC-9.30	1/19/19			932	4/18/14
TC-12.30	1/19/19	MT-95.30	7/19/19		
TC-18.24	1/17/14	MT-95.31	7/19/19		
TC-21.10	7/19/19	MT-95.45	4/19/19		
TC-21.20	7/20/18	MT-97.10	4/19/19		
TC-22.20	1/17/14	MT-98.10	1/20/17		
TC-41.10	7/19/13	MT-98.22	1/20/17		
TC-41.20	10/18/13	MT-98.28	1/20/17		
TC-41.30	10/18/13	MT-98.29	7/19/19		
TC-41.40	10/18/13	MT-105.10	7/19/13		
TC-41.50	10/18/13				
TC-42.10	10/18/13				

**CONFORMED SET**

APPROVED: *[Signature]*  
 DATE: 11/27/19 DISTRICT DEPUTY DIRECTOR

APPROVED: *[Signature]*  
 DATE: 12/14/19 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. NON-FEDERAL  
 CONSTRUCTION PROJECT NO. 105080  
 RAILROAD INVOLVEMENT NONE  
 SUM-76 / VAR-6.90 / VAR SIGNS  
 1/30

**UTILITIES**

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS:

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEAD-QUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)  
OGPUPS 1-800-925-0988  
ODOT 330-786-2267 MICHELLE CHANEY

ODOT ITS LAB  
1606 WEST BROAD STREET  
COLUMBUS, OHIO 43223  
614-487-4113  
GEN.ITS.LAB@dot.ohio.gov

LOCATE REQUESTS SHALL BE EMAILED TO THE ODOT ITS LAB.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**CLEARING AND GRUBBING, AS PER PLAN**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN.

THE CONTRACTOR SHALL TRIM SHRUBS OR TREES PARTIALLY COVERING ANY SIGNS.

ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN.

**CROSS SECTIONS**

CROSS SECTIONS HAVE BEEN PROVIDED FOR OVERHEAD SIGNS. THE CONTRACTOR SHALL PLACE OVERHEAD SIGNS OVER LANES ACCORDING TO THESE SIGNS.

**GROUND AND OVERHEAD MOUNTED SIGNS**

GROUND AND OVERHEAD MOUNTED SIGNS ON EXISTING BEAMS/TRUSSES/CANTILEVERS SHALL BE INSTALLED AT THE SAME HEIGHT AS EXISTING SIGNS.

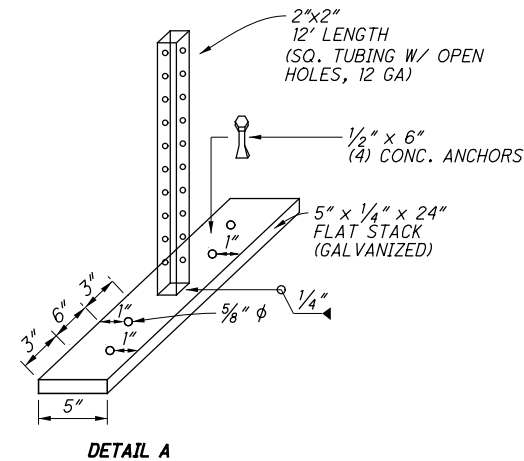
**SIGN ATTACHMENT ASSEMBLY, AS PER PLAN**

REFER TO STANDARD CONSTRUCTION DRAWING TC-9.30 FOR CENTER MOUNT OVERHEAD SIGN SUPPORTS ASSEMBLIES FOR S-27 AND S-30 ON SHEET 20.

**ITEM 630 SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED, AS PER PLAN**

THE CONTRACTOR SHALL USE CONCRETE BARRIER MOUNTED SIGN SUPPORTS, AS PER DETAIL A BELOW.

THE ABOVE WORK SHALL BE PAID FOR UNDER ITEM 630 SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED, AS PER PLAN AND SHALL INCLUDE ALL LABOR, BRACKETS AND MATERIALS REQUIRED TO COMPLETE THE WORK.



**INTERIM COMPLETION DATE FOR HOSPITAL SIGNS**

THE CONTRACTOR SHALL HAVE THE HOSPITAL SIGNS ON SHEETS 21, 22A & 24A-C INSTALLED BY JUNE 30, 2020.

I:\Project+Data\SUM\05080\_SIGNS\Design\Roadway\Sheets\05080\_GN001.dgn\_Sheet 2/5/2020 2:00:59 PM rblsesi

CALCULATED  
NAR  
CHECKED  
RMB

**GENERAL NOTES**

**SUM-76 / VAR-6.90 / VAR  
SIGNS**

**MAINTENANCE OF TRAFFIC**

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. 4 OR MORE LANE ROADS: A MINIMUM OF ONE TWELVE FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT DURING CONSTRUCTION OF THE WORK.

3 OR MORE LANE ROADS: A MINIMUM OF ONE TEN FOOT BIDIRECTIONAL LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT DURING CONSTRUCTION OF THE WORK.

2. LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.

3. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL FLAGS, BARRICADES, SIGNS, SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS, WATCHERS AND INCIDENTALS RELATED THERETO.

4. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS ONE [1] MILE.

5. ONLY DURING OFF-PEAK PERIODS (i.e ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.

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

**TRAFFIC CONTROL INSPECTOR**

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

**WORK SCHEDULE/NOTIFICATION**

ALL WORK SHALL BE COMPLETED ON ONE ROUTE PRIOR TO BEGINNING WORK ON SUBSEQUENT ROUTES.

THE CONTRACTOR SHALL NOTIFY THE DISTRICT TRAFFIC OFFICE (330-786-2267) A MINIMUM OF 2 DAYS BEFORE BEGINNING WORK ON A ROUTE AND SHALL PROVIDE NOTICE WHEN WORK ON EACH ROUTE IS COMPLETE.

**COOPERATION BETWEEN CONTRACTORS**

THE CONTRACTOR SHALL BE ADVISED THAT PROJECTS MAY BE ONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECTS. IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECEIVE DAILY APPROVALS FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA, OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

**ITEM 614, MAINTAINING TRAFFIC (TIME LIMITATION ON A DETOUR)**

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 1 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 5-6. THESE DETOURED RAMPS CANNOT BE CLOSED CONCURRENTLY. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$2,000 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

**LANE CLOSURES (I-76, I-77, I-271)**

DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AS PER THE PERMITTED LANE CLOSURE CHART. THE PERMITTED LANE CLOSURE CHART USED FOR THIS PROJECT SHALL BE THE MOST CURRENT CHART AVAILABLE ON THE DATE THIS PROJECT SELLS.

THE CHART CAN BE FOUND AT: <http://plcm.dot.state.oh.us>

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THE REQUIREMENTS IN THE CHART, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$5000 PER HOUR OR PORTION THEREOF THAT THE LANE REDUCTION REMAINS BEYOND THE SPECIFIED LIMIT.

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
ROAD & RAMP CLOSURES	>= 2WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERNS CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

**DETOUR NOTIFICATION (CITY OF AKRON)**

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148) AND THE CITY OF AKRON (330-375-2355) EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH THE DETOUR SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

**ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)**

NOTICE OF CLOSURE SIGNS (W20-H13), SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
ROAD & RAMP CLOSURE	>= 2WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

WILL BE  
 CLOSED  
 FOR \_\_\_\_\_ DAYS  
 INFO: (330)-786-2208

W20-H13-60

**SPECIAL EVENT**

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING EVENTS HAPPENING AT BLOSSOM MUSIC CENTER.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$3,000 FOR EACH HOUR THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

I:\Project+Data\SUM\05080\_Signs\Roadway\Design\Roadway\Sheets\05080\_MN001.dgn Sheet 2/4/2020 2:36:18 PM jfltzsim

CALCULATED  
JRF  
CHECKED  
RMB

**MAINTENANCE OF TRAFFIC NOTES**

**SUM-76 / VAR-6.90 / VAR  
SIGNS**

I:\Project+Data\SUM\05080\_SIGNS\Design\Roadway\Sheets\05080\_MN001.dgn Sheet2 2/11/2020 3:03:40 PM rbisesi

**ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN**

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON SHEET(S) 5 & 6 OF THE PLAN. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

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

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

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

(THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.) THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

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

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

614 PORTABLE CHANGEABLE MESSAGE SIGN,  
AS PER PLAN, 7 SIGN MONTH

**ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS**

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE ODOT INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE ODOT, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

IN GENERAL LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONE.

THE LEOS WORK AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

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

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 100 HOURS

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

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.



**A** ROAD CLOSED  
R11-2-48  
ON TYPE III BARRICADE

**B** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. EXIT 19 RAMP CLOSED  
2. USE IR 77 NORTH

**C** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. RAMP TO KENMORE CLOSED  
2. CONTINUE ON IR-77 N

**D** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. DETOUR KENMORE BLVD  
2. USE EXIT 130

**E** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. DETOUR KENMORE BLVD  
2. TURN RIGHT

**F** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. DETOUR KENMORE BLVD  
2. CONTINUE ON IR-77 S

**G** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. DETOUR KENMORE BLVD  
2. USE EXIT 129

**H** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. DETOUR KENMORE BLVD  
2. USE EXIT 19

**DETOUR ROUTE FOR: RAMP G**

← OFFICIAL DETOUR ROUTE: IR 77 N/FREDERIC BLVD./SR 261/IR 77 S →

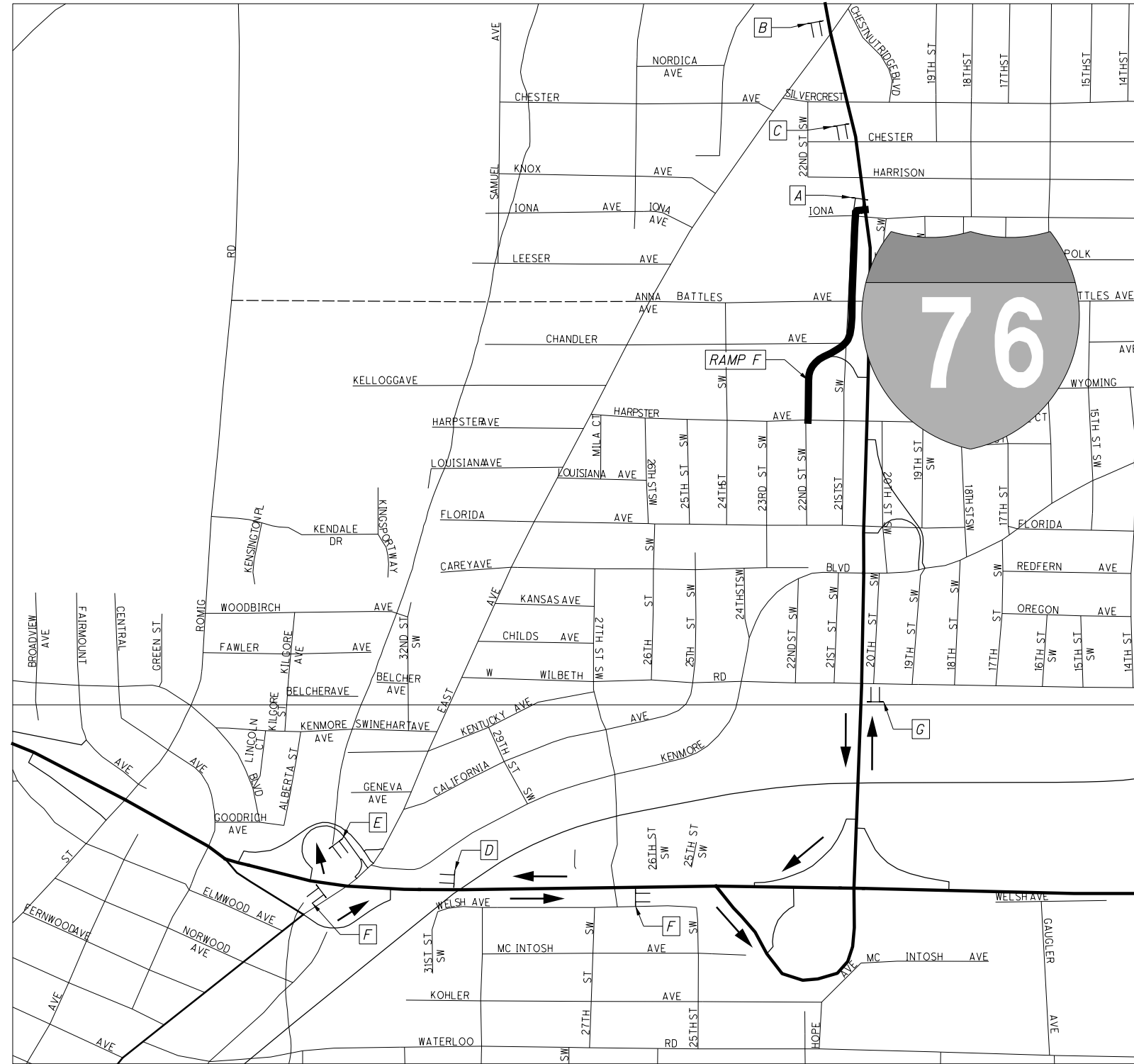


NOT TO SCALE

REFER TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 6H-8 (TYPICAL APPLICATION 8), FOR SIGN SPACING.

# ON TYPE III BARRICADE WITH TYPE B FLASHER MOUNTED PER MT 101.60

C-28



**A** ROAD CLOSED  
R11-2-48  
ON TYPE III BARRICADE

**B** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. EXIT 19 RAMP CLOSED  
2. USE IR-76 W RAMP

**C** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. RAMP TO KENMORE CLOSED  
2. CONTINUE ON IR-76 W

**D** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. DETOUR KENMORE BLVD  
2. USE EXIT 19

**E** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. DETOUR KENMORE BLVD  
2. TURN RIGHT

**F** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. DETOUR KENMORE BLVD  
2. CONTINUE ON IR-76 E

**G** PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES:  
1. DETOUR KENMORE BLVD  
2. USE EXIT 19

**DETOUR ROUTE FOR: RAMP F**  
←← OFFICIAL DETOUR ROUTE: IR 76 W/WOOSTER RD./IR 76 E →→



NOT TO SCALE

REFER TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 6H-8 (TYPICAL APPLICATION 8), FOR SIGN SPACING.

# ON TYPE III BARRICADE WITH TYPE B FLASHER MOUNTED PER MT 101.60

I:\Project+Data\SUM\05080\_Signs\Design\Roadway\Signs\05080\_MN001.dgn Sheet4 2/4/2020 2:36:22 PM jfitzsim

I:\ProjectData\SUM\05080\_Signs\Roadway\Design\Signs\05080\_ggn\_Sheet\_2/12/2020\_8:50:54 AM btexter

SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
2		4				8	9	10	11	12	13	13A	01/NFP/O T	EXT	TOTAL				
<b>ROADWAY</b>																			
LS													LS	201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN	2
<b>EROSION CONTROL</b>																			
													3,000	832	30000	3,000	EACH	EROSION CONTROL	
<b>TRAFFIC CONTROL</b>																			
						2				2	1		5	625	32000	5	EACH	GROUND ROD	
						36	77	19					132	630	02100	132	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
						116	192.5	84	213		192		797.5	630	03100	797.5	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
									64	32			96	630	06400	96	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	
						72							72	630	06500	72	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9	
									2				2	630	08600	2	EACH	SIGN POST REFLECTOR (RED)	
									2				2	630	08600	2	EACH	SIGN POST REFLECTOR (YELLOW)	
						4			4	2			10	630	09000	10	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION	
										1			1	630	20400	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 4	
										1	1		2	630	20600	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 6	
						1							1	630	35500	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 6	
						7			14	9	4		34	630	75000	34	EACH	SIGN ATTACHMENT ASSEMBLY	
										8			8	630	75001	8	EACH	SIGN ATTACHMENT ASSEMBLY, AS PER PLAN	2
										5			5	630	79500	5	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
									7				7	630	79611	7	EACH	SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED, AS PER PLAN	2
						73	126	62	174	41.8	60		536.8	630	80100	536.8	SF	SIGN, FLAT SHEET	
						768	637	371	124	30			1,930	630	80200	1,930	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
									598	497	294.5	87.5	1,477	630	80224	1,477	SF	SIGN, OVERHEAD EXTRUSHEET	
										10	5	7	22	630	82000	22	EACH	SIGN BACKING ASSEMBLY	
						4			4	2			10	630	84500	10	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
						2				2	1		5	630	84510	5	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
						21	21	12	12	8			74	630	84900	74	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
						6	7	2		1			16	630	85400	16	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	
						14	23	8	15				60	630	86002	60	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
						4			4	2			10	630	86102	10	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
										2	1		3	630	86310	3	EACH	REMOVAL OF STRUCTURE MOUNTED SIGN AND DISPOSAL	
						4			8	4		5	21	630	87400	21	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
										5			5	630	87500	5	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
						1							1	630	89802	1	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-7.65	
											1		1	630	97700	1	EACH	SIGNING, MISC.: REMOVAL OF REMAINS OF SIGN SUPPORT	13
<b>MAINTENANCE OF TRAFFIC</b>																			
		100											100	614	11110	100	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		7											7	614	18600	7	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN	
<b>INCIDENTALS</b>																			
													LS	614	11000	LS		MAINTAINING TRAFFIC	
													6	619	16010	6	MNTH	FIELD OFFICE, TYPE B	
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

**GENERAL SUMMARY**

**SUM-76 / VAR-6.90 / VAR**

**SIGNS**

REF NO.	SHEET NO.	SLM	SIDE	CODE *PLYWOOD # YELLOW/GREEN ## WHITE ON BROWN	SIZE (INCHES)	630	630	630	630	630	630	630	630	630	630	630	630	630	625	630																					
						FT	FT	FT	EACH	EACH	SF	SF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
SUM-271																																									
S-0	14	0.00	RT	I-H2h	48x72							24			1																										
S-1	14	0.02	CENTER	R5-11	36x36		27				18				2		2																								
				R3-4	36x36						18				2																										
S-2	14	0.42	LT	D10-1	10x18	9					1.25				1		1																								
S-2a	14	0.42	RT	D10-1	10x18	9					1.25				1		1																								
S-3			NOT	USED																																					
S-4	14	0.74	RT	D5-H2	120x60							50				1																									
	14			D-SPECIAL											1																										
S-5	14	0.90	RT	D5-H2a	72x72			36	2			36			2		1		2																						
	14			D-SPECIAL											1																										
S-6	14	1.03	LT	W4-1R	48x48		30					16			1		2																								
S-7	14	1.16	RT	W4-1R	48x48		30					16			1		2																								
S-8	15	1.28	LT	D5-H2a	72x72			36	2			36			2		1		2																						
				SPECIAL											1																										
S-9	15	1.42	RT	D14-H4	48x30										1		2																								
S-10	15	1.44	RT	D10-1	10x18	9					1.25				1		1																								
S-10a	15	1.44	LT	D10-1	10x18	9					1.25				1		1																								
S-11	15	1.54	LT	D5-H1a	120x60							50				1																									
	15			D-SPECIAL											1																										
S-12	15	1.79	OH	E1-H5P	84x30							17.5	2					1		1		2	1																		
	15			E1-2	132x108					3		99						1																							
S-13	15	1.79	OH	E1-H5P	72x30							15						1																							
	15			E1-2	216x108					4		162						1																							
S-14	15	1.89	LT	E7-H1	180x84							105				1																									
	15			D-SPECIAL											1																										
S-15	15	1.95	RT	NOT USED																																					
S-16	15	2.02	RT	I-H2a	72x36		29					18			1		2																								
S-17	15	2.22	RT	E1-H5P	72x30							15			1																										
	15			E1-2	216x72							108																													
	15			D-SPECIAL											1																										
S-18	THRU	S-41	NOT	USED																																					
S-42	16	6.64	LT	E1-2	96x48							32			1																										
TOTALS CARRIED TO GENERAL SUMMARY						36.0	116.0	72.0	4	7	73	768	2	4	21	6	14	4	4	1	2	1.0																			

NOTE: Quantities on this row are doubled  
NOTE: Quantities on this row are doubled

CALCULATED	
JRF	
CHECKED	
RMB	
<b>IR-271 SIGNING SUBSUMMARY</b>	
<b>SUM-76 / VAR-6.90 / VAR SIGN</b>	
8	30



I:\Project+Data\SUM105080\_SIGNS\Design\Roadway\Sheets\105080\_IC271.dgn Sheet 03 2/11/2020 10:25:16 AM r\bsesf

REF NO.	SHEET NO.	SLM	SIDE	CODE *PLYWOOD # YELLOW/GREEN ## WHITE ON BROWN	SIZE (INCHES)	630	630	630	630	630	630																											
						GROUND MOUNTED SUPPORT, NO. 2 POST	GROUND MOUNTED SUPPORT, NO. 3 POST		SIGN, FLAT SHEET	SIGN, GROUND MOUNTED EXTRUSHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL																									
						FT	FT		SF	SF	EACH	EACH	EACH																									
S-43	16	6.85	RT	E7-H1	168x84					98	1																											
S-44	16	6.89	LT	W8-13	48x48		32		16	1		2																										
S-45	17	7.28	LT	E1-H5P	84x30					17.5	1																											
	17			E1-2	156x144					156	1																											
S-46	17	7.47	LT	D10-2	12x36	9.5			3	1		1																										
S-46A	17	7.47	RT	D10-2	12x36	10.5			3	1		1																										
S-47	17	7.47	RT	D14-H4						1		2																										
S-48	17	7.66	RT	R8-7	48x36		28		12	1		2																										
S-49	17	7.84	RT	W8-13	48x48		32		16	1		2																										
S-50	17	7.99	RT	D3-H6	96x36					24	1																											
S-51	17	8.29	LT	D3-H1	96x36					24	1																											
S-52	17	8.42	LT	D10-2	12x36	9.5			3	1		1																										
S-53	17	8.43	RT	D10-2	12x36	9.5			3	1		1																										
S-54	17	8.45	LT	W8-13	48x48		32		16	1		2																										
S-55	18	8.76	CENTER	R3-4	36x36		13.5		9	1		1																										
	18			R5-11	36x24				6	1																												
S-56	18	8.77	CENTER	R3-4	36x36		13.5		9	1		1																										
	18			R5-11	36x24				6	1																												
S-57	18	9.41	LT	D14-H4			13.5			1		2																										
	18			D10-2	12x36	9.5			3	1																												
S-58	18	9.43	RT	D10-2	12x36	9.5			3	1		1																										
S-59			NOT	USED																																		
S-60	19	10.41	LT	D10-2	12x36	9.5			3	1		1																										
S-61	19	10.42	RT	D10-2	12x36	9.5			3	1		1																										
S-62	19	10.54	RT	E1-H5P	84x30					17.5	1																											
	19			E1-2	156x144					168	1																											
S-63	19	10.75	LT	R8-7	48x36		28		12	1		2																										
S-64	19	10.79	RT		132x60					55	1																											
S-65	19	10.93	LT	E7-H1	132x84					77	1																											
TOTALS CARRIED TO GENERAL SUMMARY						77.0	192.5		126.0	637	21	7	23																									

CALCULATED	9
	30
JRF	
CHECKED	
RMB	
<b>IR-271 SIGNING SUBSUMMARY</b>	
<b>SUM-76 / VAR-6.90 / VAR SIGNS</b>	

REF NO.	SHEET NO.	SLM	SIDE	CODE *PLYWOOD # YELLOW/GREEN ## WHITE ON BROWN	SIZE (INCHES)	630	630	630	630	630	630	630	630	630	630																							
						GROUND MOUNTED SUPPORT, NO. 2 POST	GROUND MOUNTED SUPPORT, NO. 3 POST	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	BREAKAWAY STRUCTURAL BEAM CONNECTION	SIGN, FLAT SHEET	SIGN, GROUND MOUNTED EXTRUSHEET	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL																						
						FT	FT	FT	EACH	SF	SF	EACH	EACH	EACH	EACH	EACH																						
S-66	20	11.02	CENTER	R3-4	36x36					9			1		1																							
	20			R5-11	36x24					6			1																									
S-67	20	11.03	CENTER	R3-4	36x36					9			1		1																							
	20			R5-11	36x24					6			1																									
S-68	20	11.07	RT	W8-13	48x48					16			1		2																							
S-69	20	11.10	RT	E1-H5P	84x30								1																									
	20			E1-2	156x144									1																								
	20			D9-13aP	60x24								1																									
S-70	20	11.13	LT	NOT USED																																		
S-71	20	11.37	LT	M3-3	30x12								1		2																							
	20			M1-1	36x30								1																									
S-72	20	11.41	LT	D10-2	12x36	9.5				3			1		1																							
S-73	20	11.41	RT	D10-2	12x36	9.5				3			1		1																							
S-74	20	11.45	RT	E1-H5P	84x30								1																									
	20			E1-2	204x120									1																								
TOTALS CARRIED TO GENERAL SUMMARY						19.0	84.0			62	371		12	2	8																							

\\D04F5004\drive\ProjectData\SUM\05080\_SIGNS\Design\Roadway\Sheets\05080\_TC076.dgn Sheet 01 2/4/2020 2:38:18 PM Jfitzsim

REF NO.	SHEET NO.	SLM	SIDE	CODE	*PLYWOOD # YELLOW/GREEN ## WHITE ON BROWN	SIZE (INCHES)	630	630	630	630	630	630	630	630	630	630	630	630	630																
GROUND MOUNTED SUPPORT, NO. 3 POST	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	SIGN POST REFLECTOR (RED)	SIGN POST REFLECTOR (YELLOW)	BREAKAWAY STRUCTURAL BEAM CONNECTION	SIGN ATTACHMENT ASSEMBLY	SIGN, FLAT SHEET	SIGN, GROUND MOUNTED EXTRUSHEET	SIGN, OVERHEAD EXTRUSHEET	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED, AS PER PLAN																					
FT	FT	EACH	EACH	EACH	EACH	SF	SF	SF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH																
SUM-76																																			
S-1	21	7.02	RT	W13-2	48x60	29						20				1	2																		
S-2 THRU 4, S-9, S-11, S-12, S-19, S-22, S-24 NOT USED																																			
S-5	21	7.08	OH	E1-H5P	84x30						2				17.5																				
	21			E1-2	168x108						3				126																				
S-6	21	7.09	CL	D10-5	18x60							7.5																							
S-7	21	7.11	RT	E5-H1a	72x60		32			2					30			2		1	2														
S-8	21	7.22	RT	W4-1R	48x48	23						16																							
S-9	21	7.25	LT	R1-2	48x48	28			2			6.9									1	1													
S-10	21	7.27	CL	D10-4	18x54							6.75																							
	21	7.27	CL	D10-4	18x54							6.75																							
S-10A	21	7.30	LT	W4-1R	48x48	29						16									1	2													
S-13	21	7.47	CL	D10-5	18x60							7.5																							
S-13	21	7.47	CL	D10-5	18x60							7.5																							
S-13A	21	7.51	LT	E5-H1a	72x60		32			2					30			2		1															
S-14	21	7.52	RT	R2-4a	48x96										32						1														
S-14A	21	7.60	OH	E1-H5P	84x30										17.5																				
	21			E1-2	228x72						3				114																				
S-15	21	7.74	LT	E1-H5P	84x30										17.5																				
	21			E1-2	216x96						3				144																				
S-16	21	7.97	LT	R2-4a	48x96										32						1														
S-17	21	7.99	LT	E1-H5P	84x30										17.5																				
	21			E1-2	216x96						3				144																				
S-18	21	8.02	CL	D10-5	18x60							7.5																							
S-20	21	8.04	CL	D10-5	18x60							7.5																							
S-20A	21	8.20	CL	D10-4	18x54							6.75																							
S-21	21	8.11	LT	W4-3R	48x48	23						16									1	2													
S-22	21	8.11	LT	W13-7	48x84	35						26									1	2													
S-23	21	8.21	LT	W1-8L	30X36	23						7.5									1	1													
S-24	21	8.21	LT	W1-8L	30X36	23						7.5									1	1													
TOTALS CARRIED TO GENERAL SUMMARY							213.0	64.0	2.0	2.0	4.0	14.0	174	124	598	4	12	15	4	8	7														

**IR-76 SIGNING SUBSUMMARY**

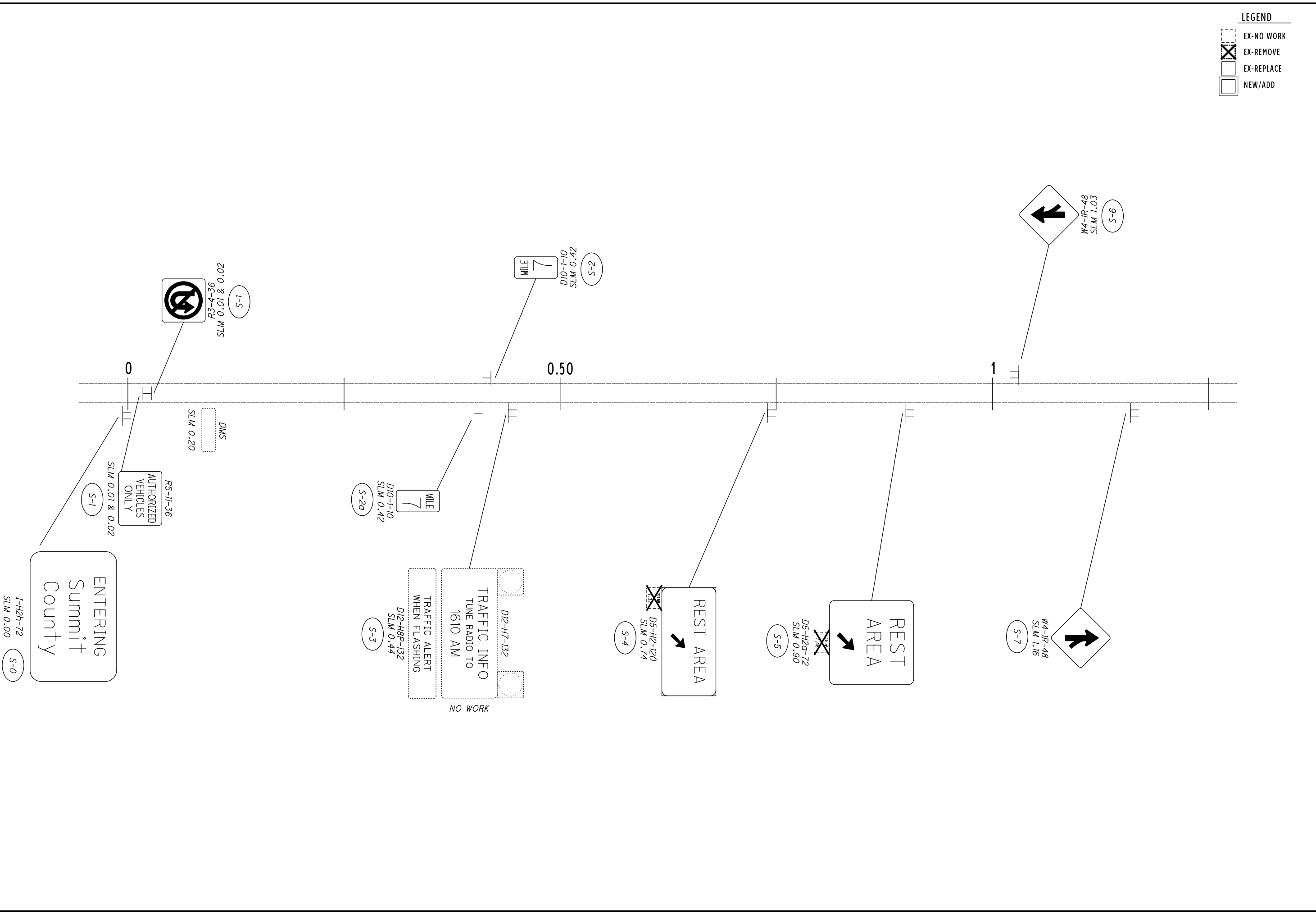
**SUM-76 / VAR-6.90 / VAR  
SIGNS**

CALCULATED  
JRF  
CHECKED  
RMB









**LEGEND**

- EX-NO WORK
- EX-REMOVE
- EX-REPLACE
- NEW/ADD

CALCULATED  
NAR  
CHECKED  
RMB

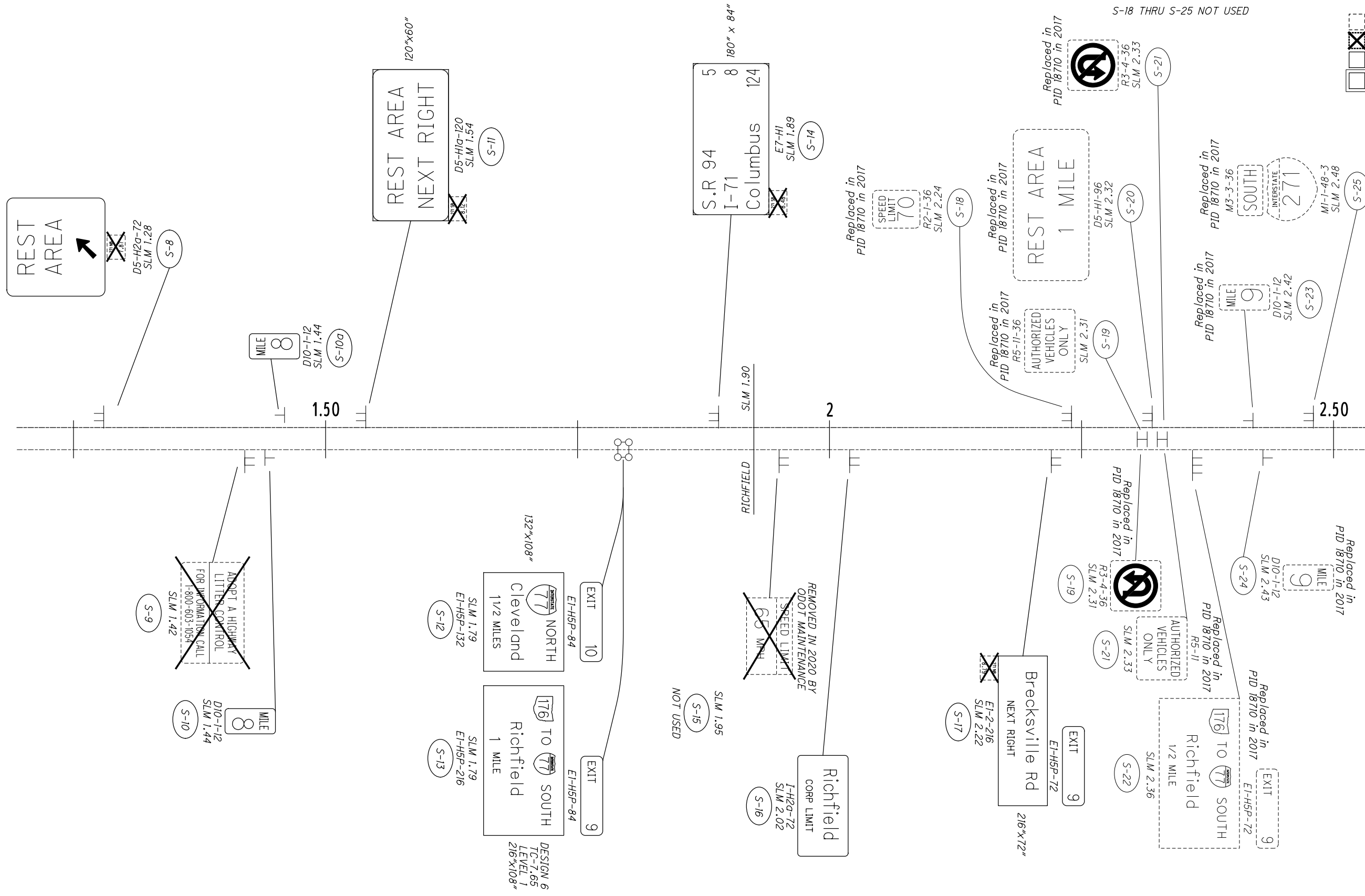
0  
0  
0  
HORIZONTAL  
SCALE IN FEET

**SIGNING PLAN**

**SUM-IR 271 (SLM 0.00 TO 1.25)**

**SUM-76 / VAR-6.90 / VAR**

**SIGNS**



S-18 THRU S-25 NOT USED

**LEGEND**

- EX-NO WORK
- X EX-REMOVE
- EX-REPLACE
- NEW/ADD

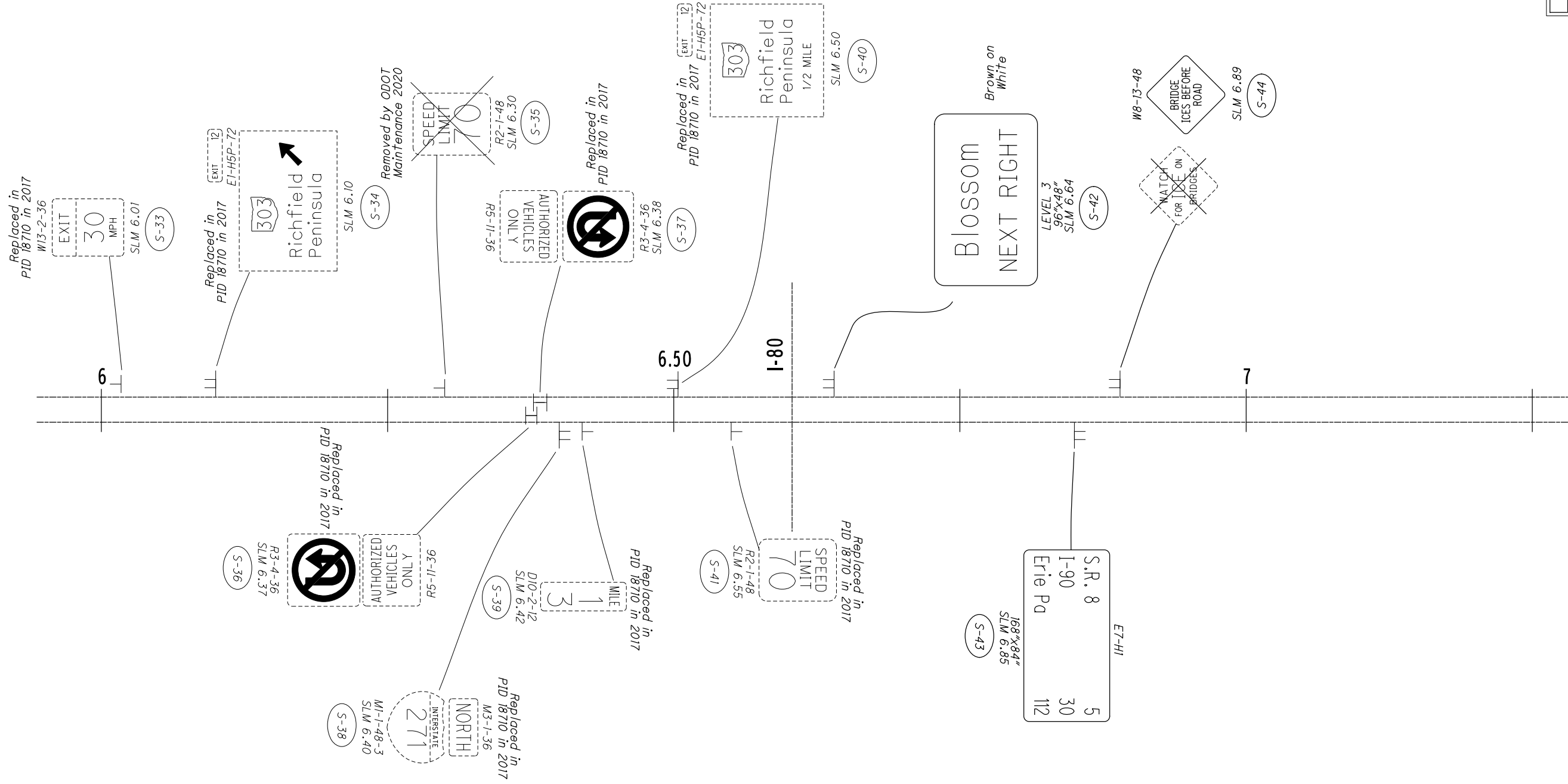
CALCULATED 0  
 NAR 0  
 CHECKED 0  
 RMB 0

0 0 0  
 HORIZONTAL SCALE IN FEET

**SIGNING PLAN**  
**SUM-IR 271 (SLM 1.25 TO 2.50)**

**SUM-76 VAR-9.90 VAR** / **9.90 VAR**  
**SIGNS**





S-33 THRU S-41 NOT USED

**LEGEND**

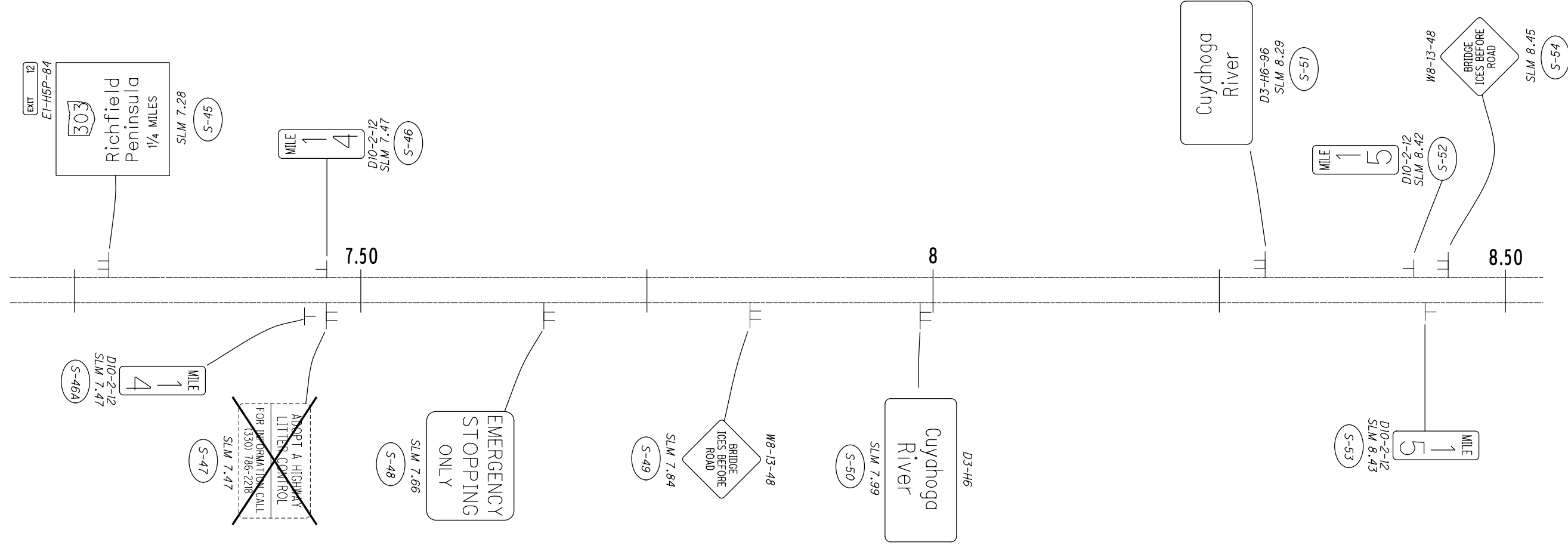
- EX-NO WORK
- EX-REMOVE
- EX-REPLACE
- NEW/ADD

CALCULATED  
NAR  
CHECKED  
RMB

0 0 0  
HORIZONTAL  
SCALE IN FEET

**SIGNING PLAN**  
**SUM-IR 271 (SLM 6.03 TO 7.25)**

**SUM-76 VAR-6.90/VAR**  
**SIGNS**



**LEGEND**

- EX-NO WORK
- EX-REMOVE
- EX-REPLACE
- NEW/ADD

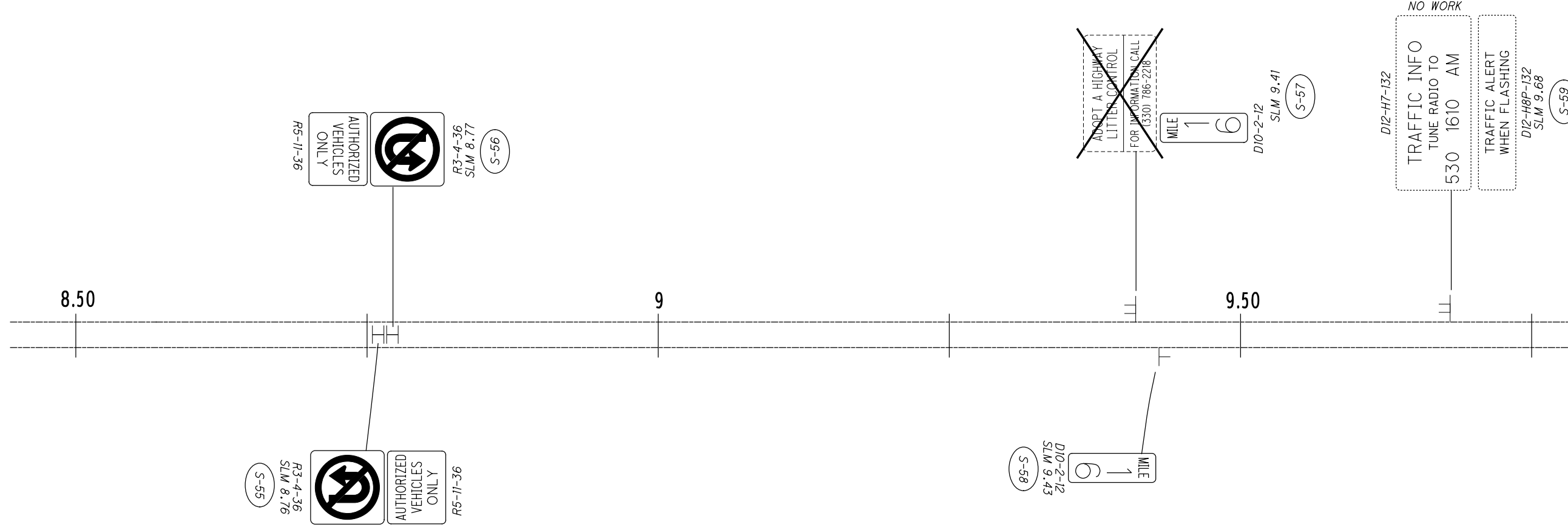
CALCULATED  
NAR

CHECKED  
RMB

0 0 0  
HORIZONTAL  
SCALE IN FEET

**SIGNING PLAN**  
**SUM-IR 271 (SLM 7.25 TO 8.50)**

**SUM-76 VAR-6.90 / VAR**  
**SIGNS**



**LEGEND**

	EX-NO WORK
	EX-REMOVE
	EX-REPLACE
	NEW/ADD

CALCULATED  
NAR

CHECKED  
RMB

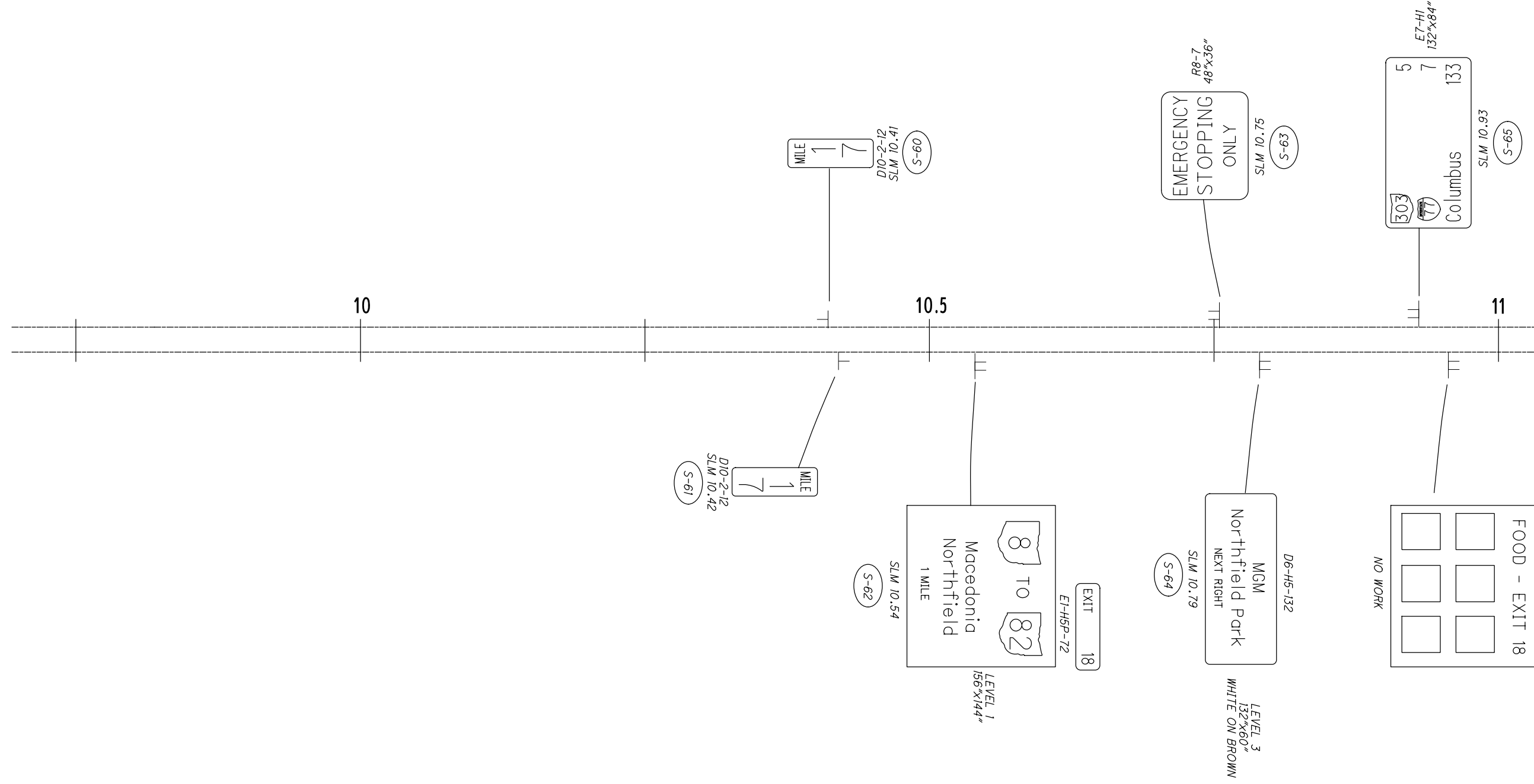
0 0 0  
HORIZONTAL  
SCALE IN FEET

**SIGNING PLAN**

**SUM-IR 271 (SLM 8.50 TO 9.75)**

**SUM-76 / VAR-6.90 / VAR**

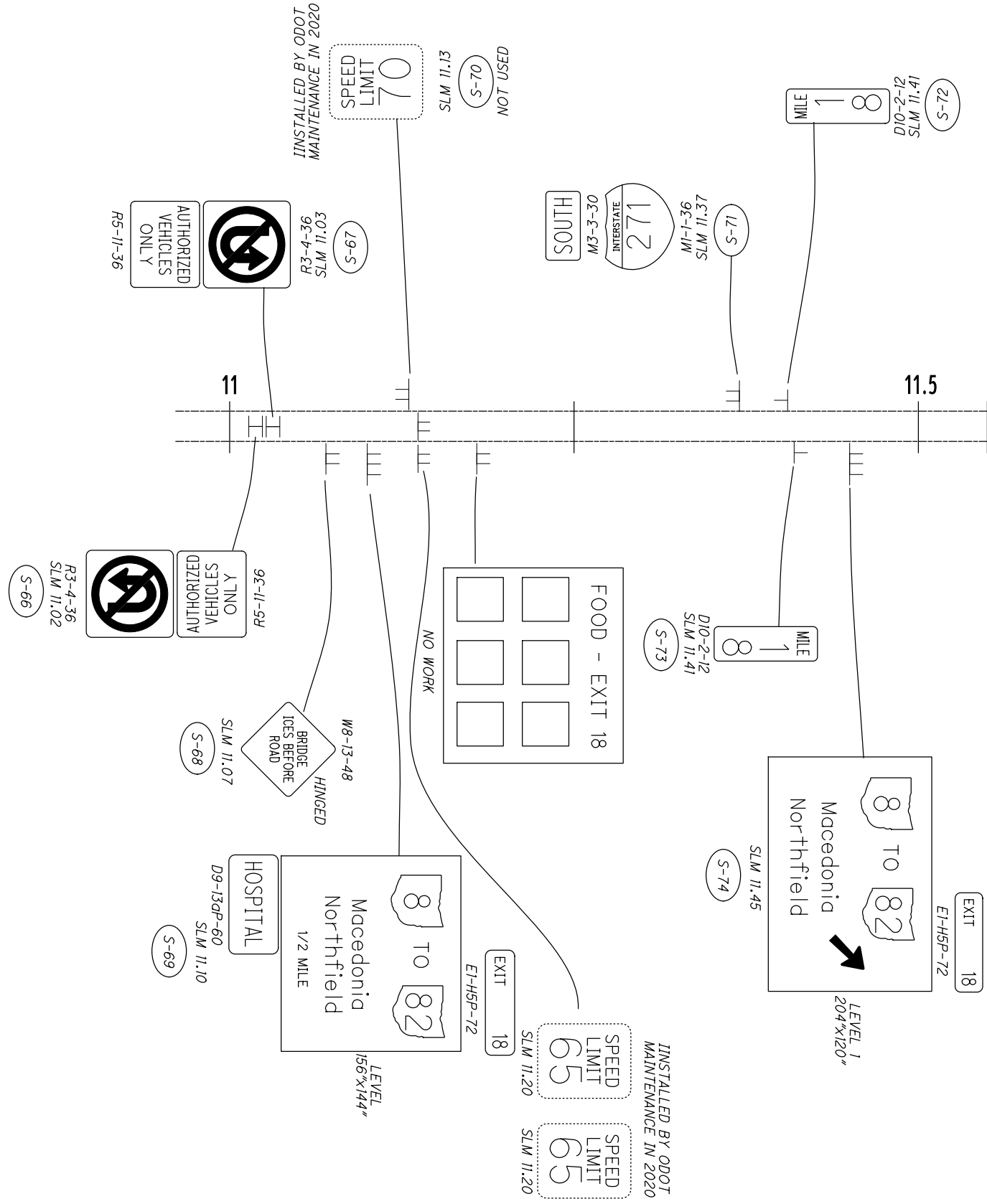
**SIGNS**



**LEGEND**

- EX-NO WORK
- EX-REMOVE
- EX-REPLACE
- NEW/ADD





**LEGEND**

	EX-NO WORK
	EX-REMOVE
	EX-REPLACE
	NEW/ADD

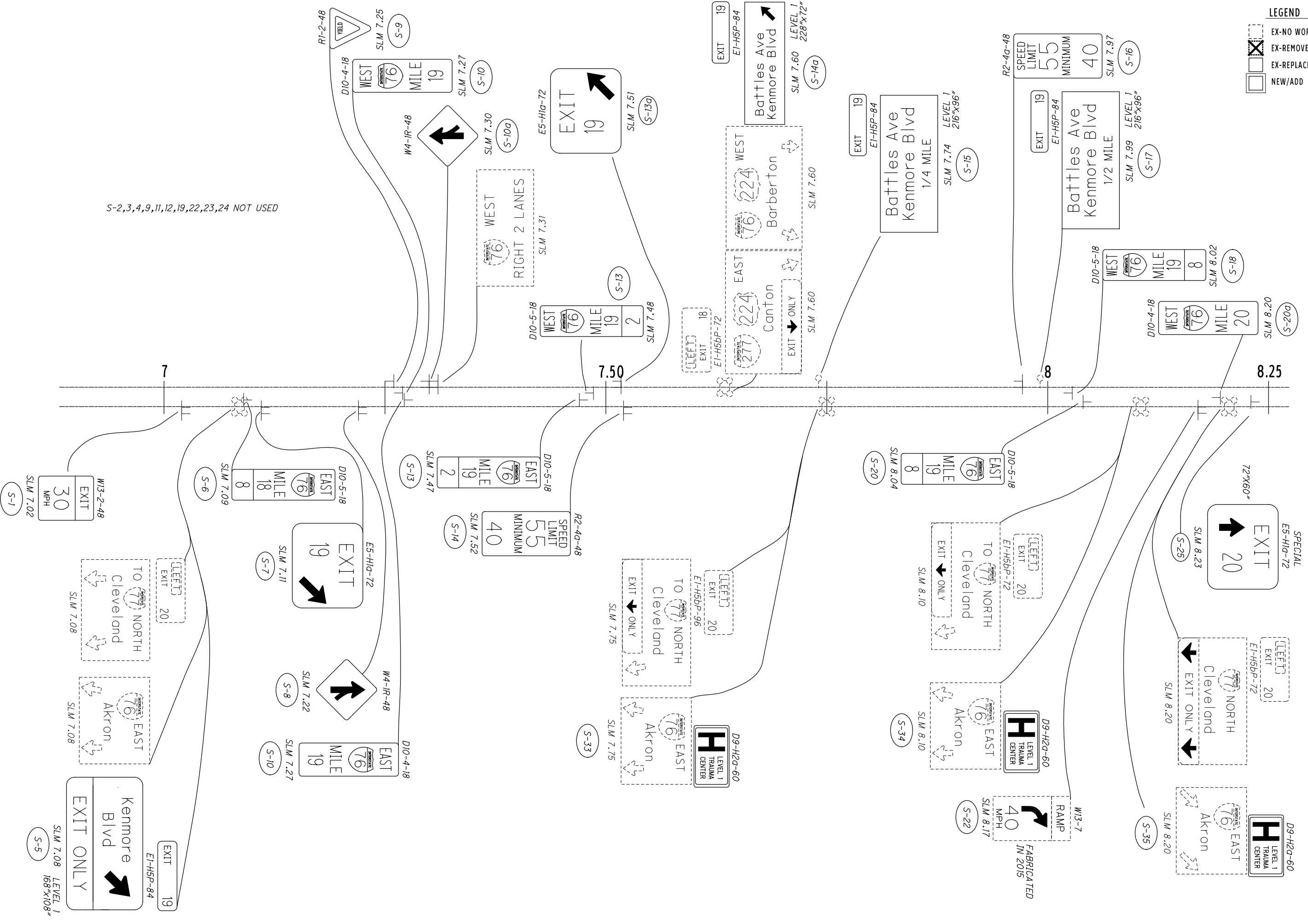
CALCULATED JRF  
CHECKED RMB

0 0 0  
HORIZONTAL SCALE IN FEET

**SIGNING PLAN**  
**SUM-IR 271 (SLM 11.00 TO 11.55)**

**SUM-76 VAR-6.90 / VAR**  
**SIGNS**

S-2,3,4,9,11,12,19,22,23,24 NOT USED



**LEGEND**

- EX-NO WORK
- EX-REMOVE
- EX-REPLACE
- NEW/ADD

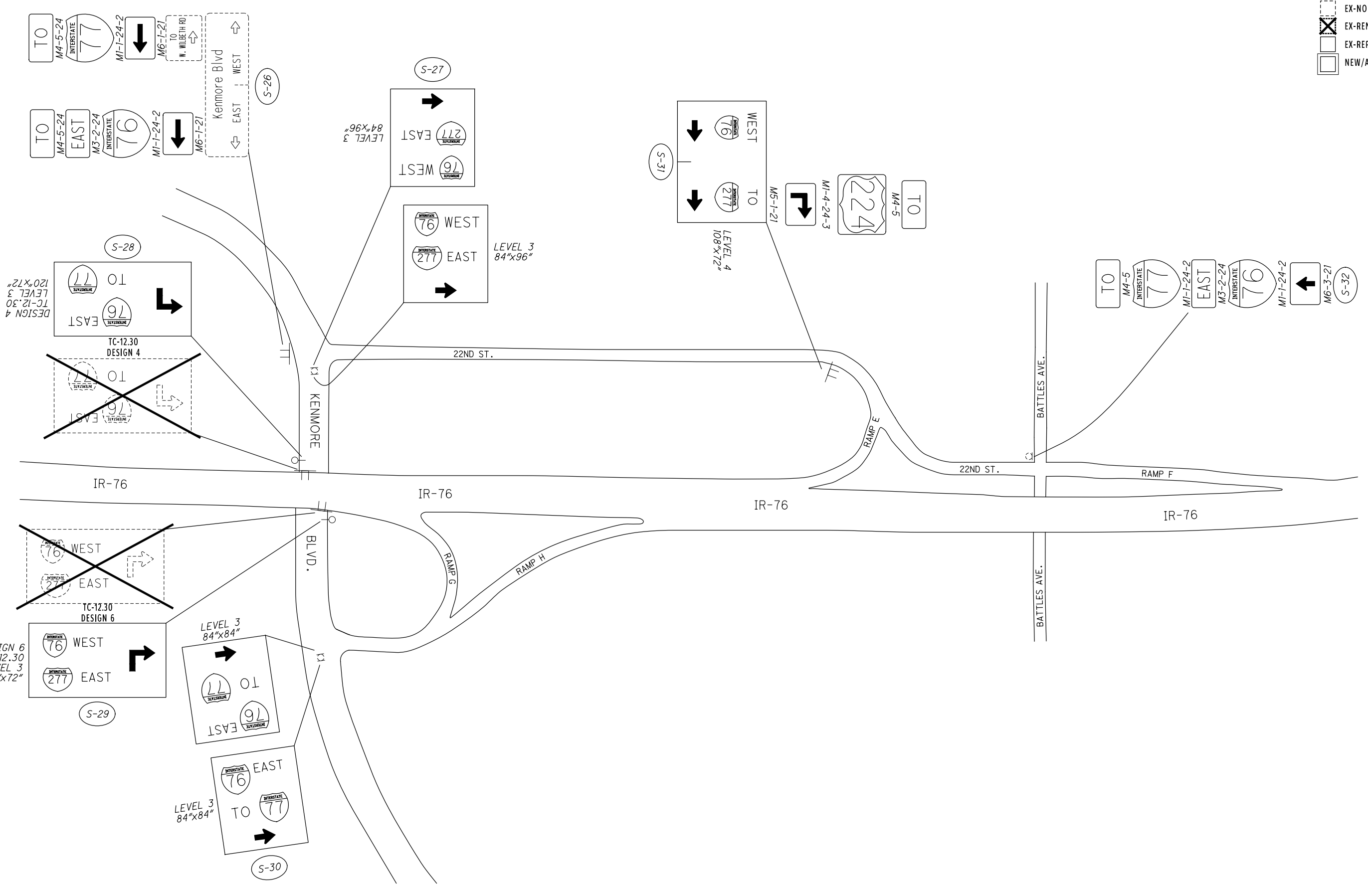
CALCULATED JRF CHECKED RMB

HORIZONTAL SCALE IN FEET

**SIGNING PLAN**  
**SUM-IR 76 (SLM 6.90 TO 8.25)**

**SUM-76-VAR-6.90-VAR** / **96-76-VAR** SIGNS

\\D04F5004\drive\ProjectData\SUM\05080\_SIGNS\Design\_Roadway\_Sheets\05080\_IP076.dgn Sheet 02 2/4/2020 2:40:18 PM jfitzsim



**LEGEND**

- EX-NO WORK
- X EX-REMOVE
- EX-REPLACE
- NEW/ADD

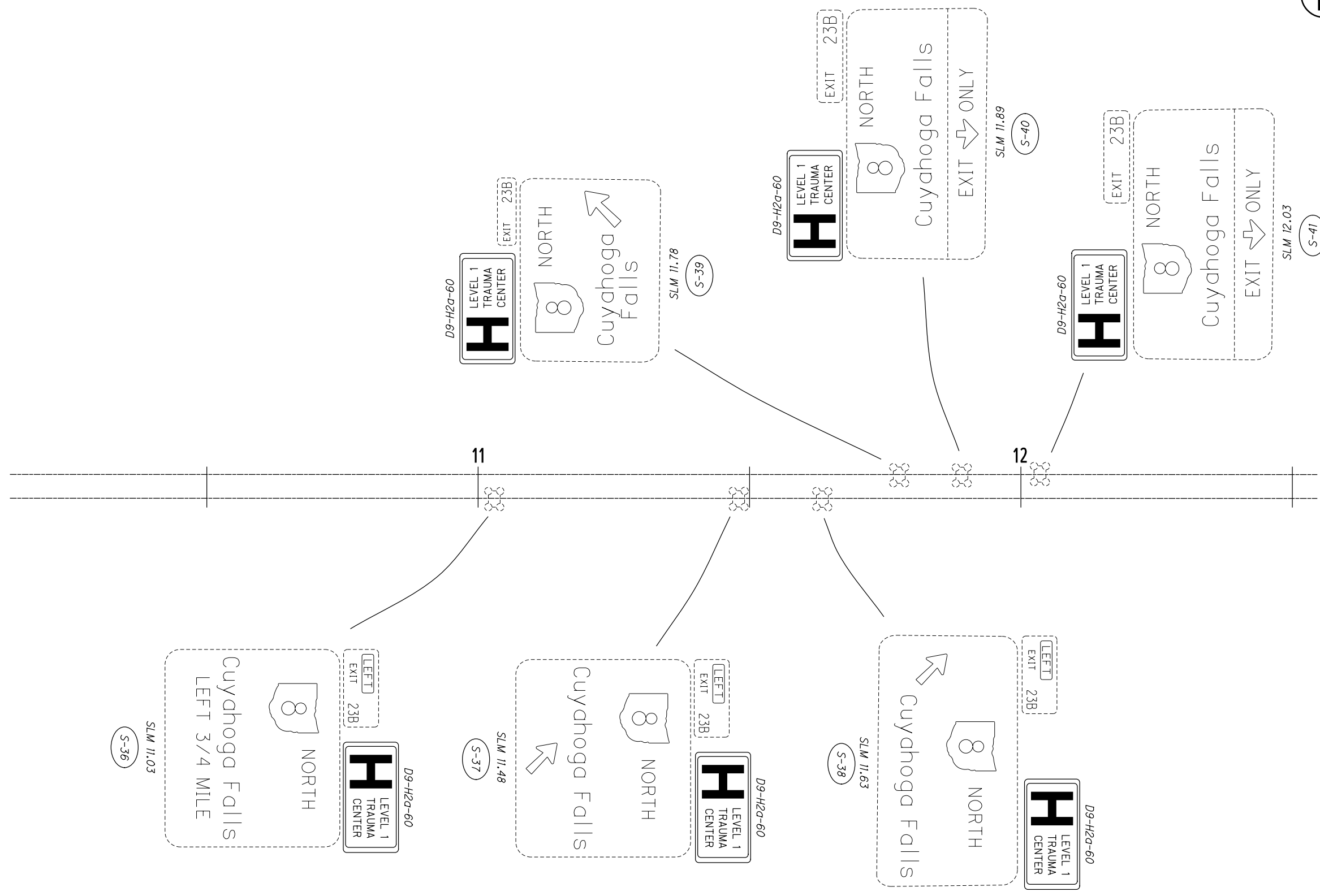
CALCULATED  
NAR  
CHECKED  
RMB

0 0 0  
HORIZONTAL  
SCALE IN FEET

**N**

**SIGNING PLAN**  
**SUM-IR 76, KENMORE BLVD. & BATTLES AVE.**

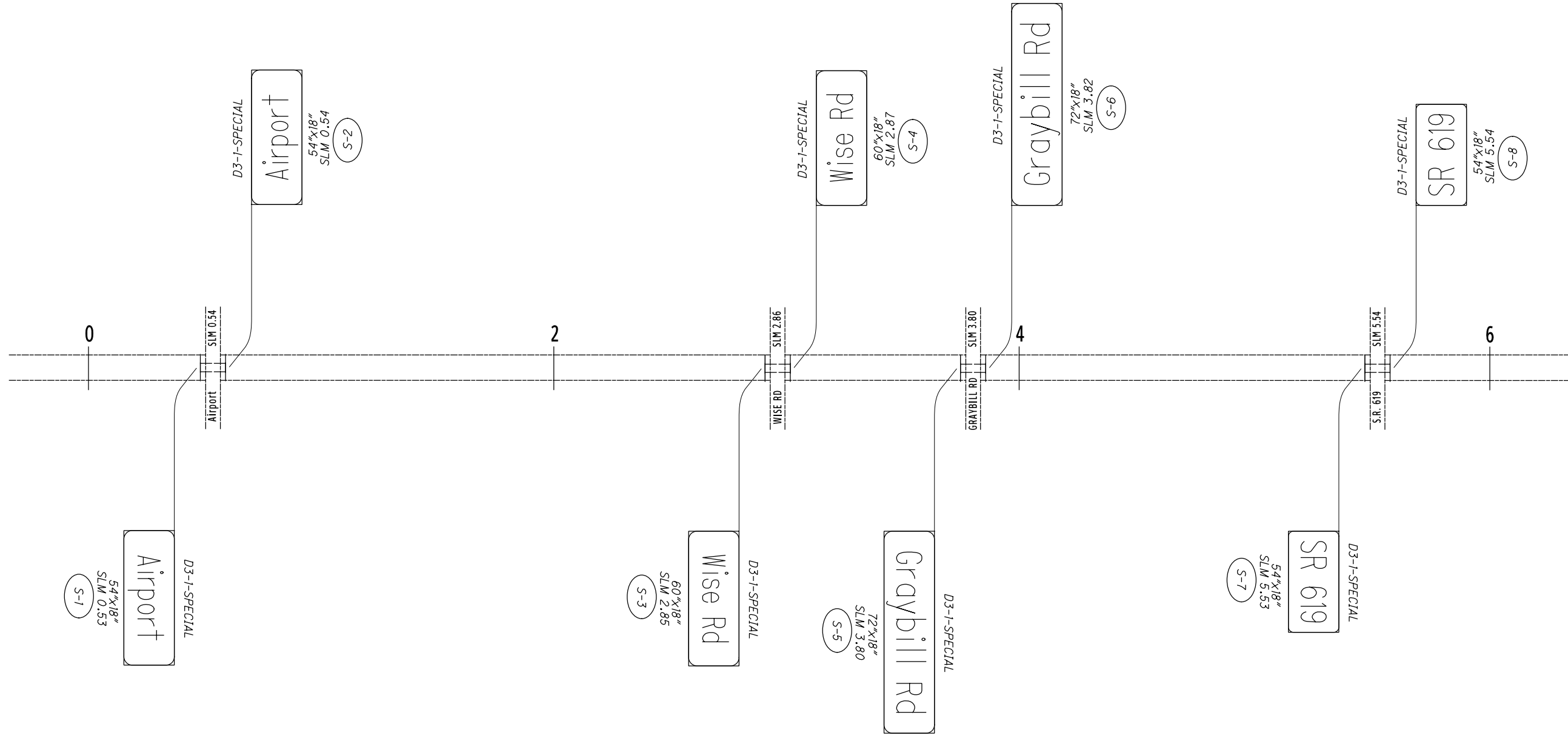
**SUM-76 / VAR-6.90 / VAR**  
**SIGNS**



**LEGEND**

	EX-NO WORK
	EX-REMOVE
	EX-REPLACE
	NEW/ADD



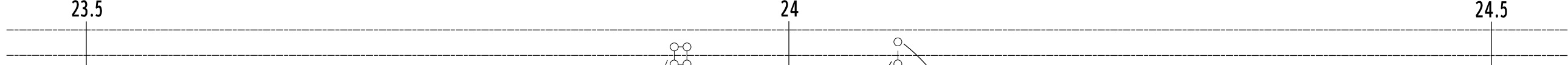


**LEGEND**

	EX-NO WORK
	EX-REMOVE
	EX-REPLACE
	NEW/ADD



LEFT LANE ENDS  
3/4 MILE







W9-H4L-240  
LEFT LANE ENDS  
MERGE RIGHT  
240'x72"  
SLM 23.92  
S-9

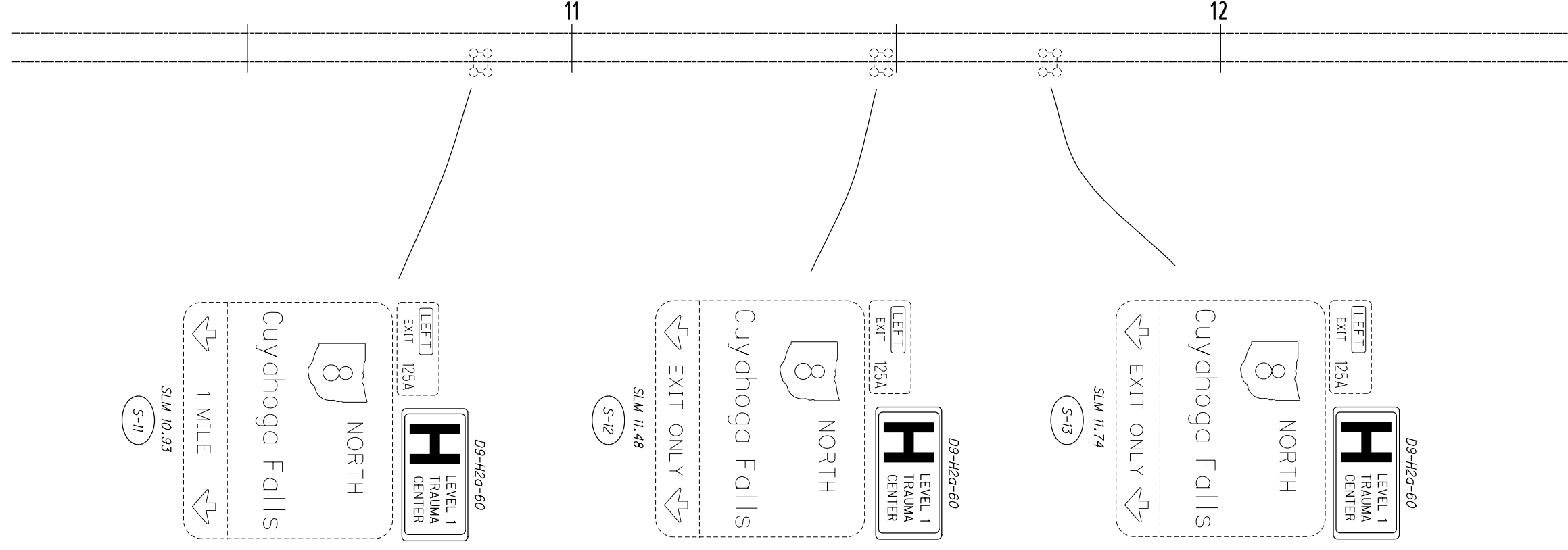
~~LEFT LANE ENDS  
1/4 MILE~~

EXIT 138  
E1-HSP-96  
96x30  
GHENT RD  
NEXT RIGHT  
144'x72"  
SLM 24.15  
S-10  
DESIGN 6  
TC-12.30  
LEVEL 1

~~LANE ENDS  
MERGE  
RIGHT~~

**LEGEND**

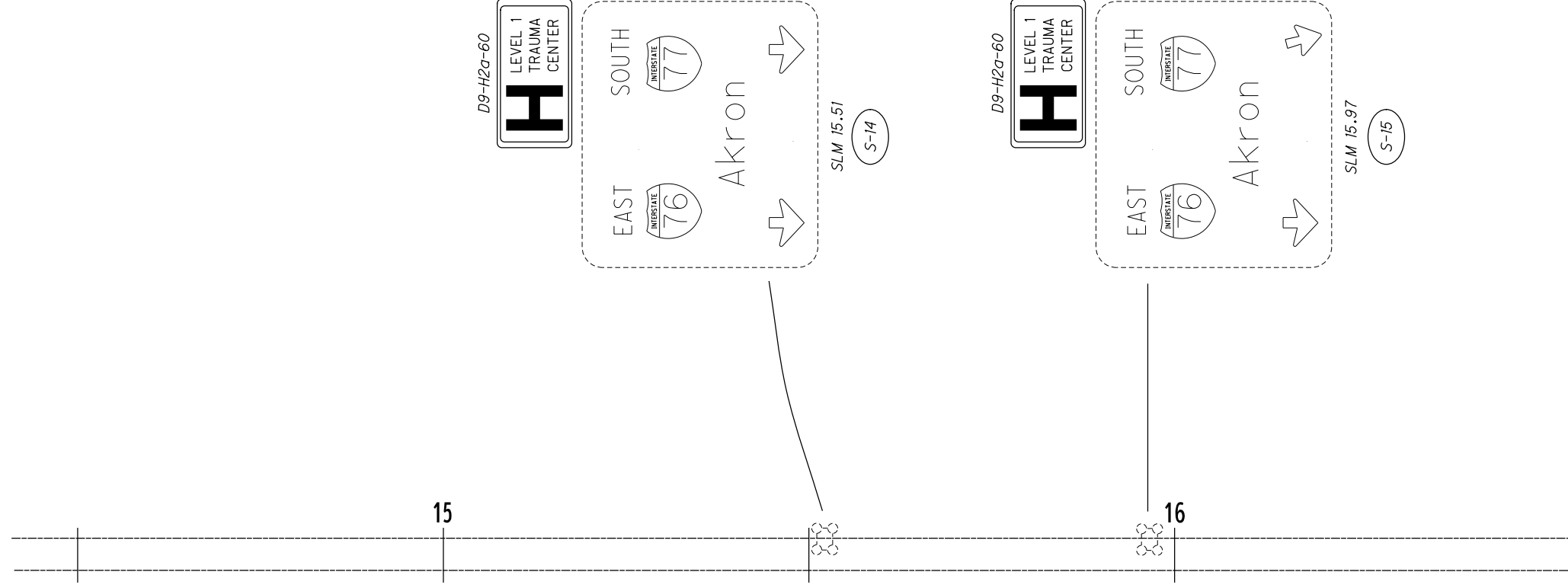
-  EX-NO WORK
-  EX-REMOVE
-  EX-REPLACE
-  NEW/ADD



**LEGEND**

	EX-NO WORK
	EX-REMOVE
	EX-REPLACE
	NEW/ADD

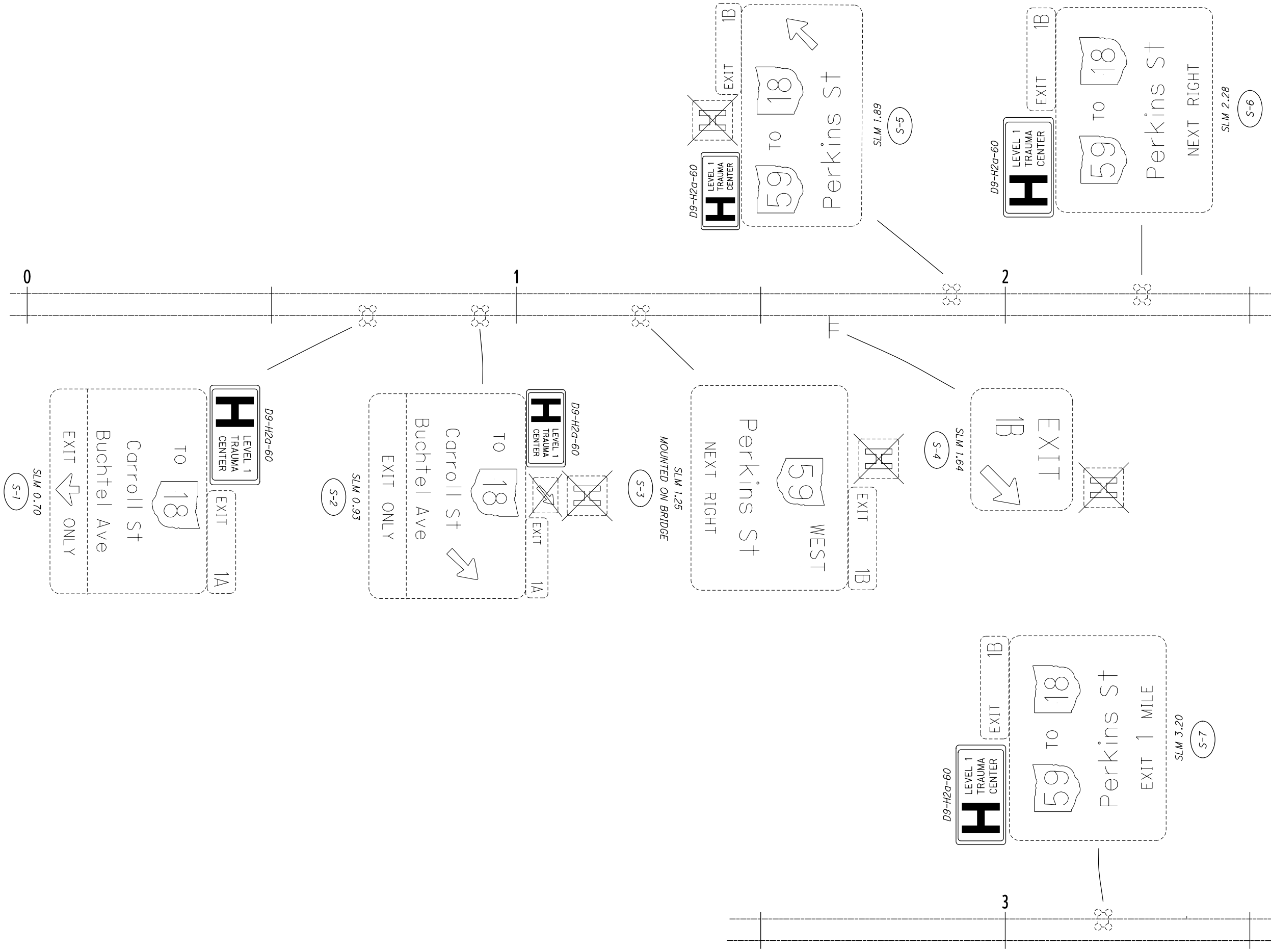
<p><b>SUM-76 VAR-6.90 VAR</b></p> <p><b>SIGNS</b></p>	<p><b>PROPOSED SIGN UPGRADE - IR 77</b></p>	
	<p>CALCULATED</p> <p>JRF</p> <p>CHECKED</p> <p>AC</p>	<p>24A</p> <p>30</p>



**LEGEND**

	EX-NO WORK
	EX-REMOVE
	EX-REPLACE
	NEW/ADD

	<b>SUM - 76 / VAR - 6.90 / VAR SIGNS</b>	<b>PROPOSED SIGN UPGRADE - IR 77</b>
	CALCULATED JRF CHECKED AC	



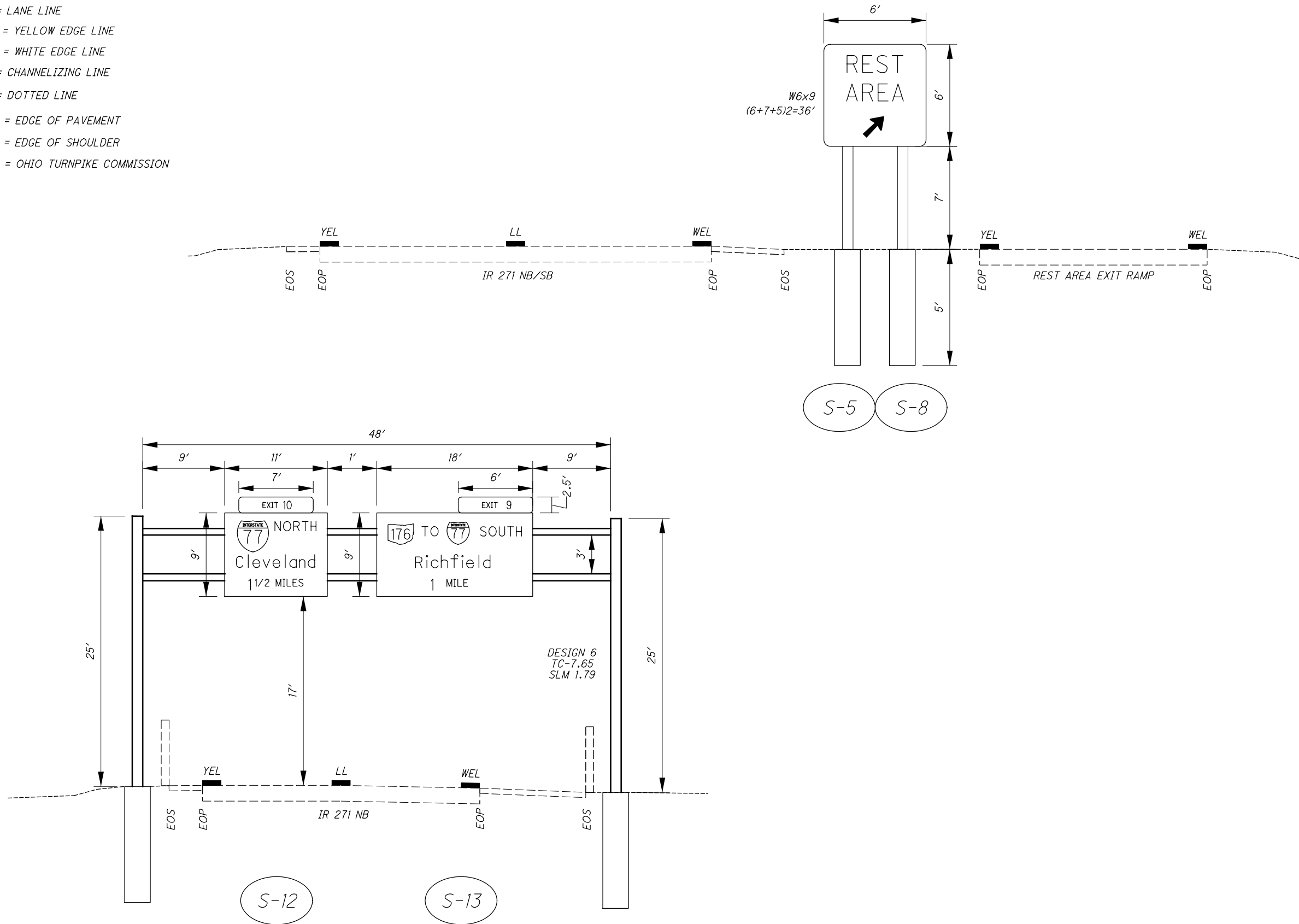
**LEGEND**

	EX-NO WORK
	EX-REMOVE
	EX-REPLACE
	NEW/ADD

SEEDING	
END WIDTH	SO. YDS.

**LEGEND**

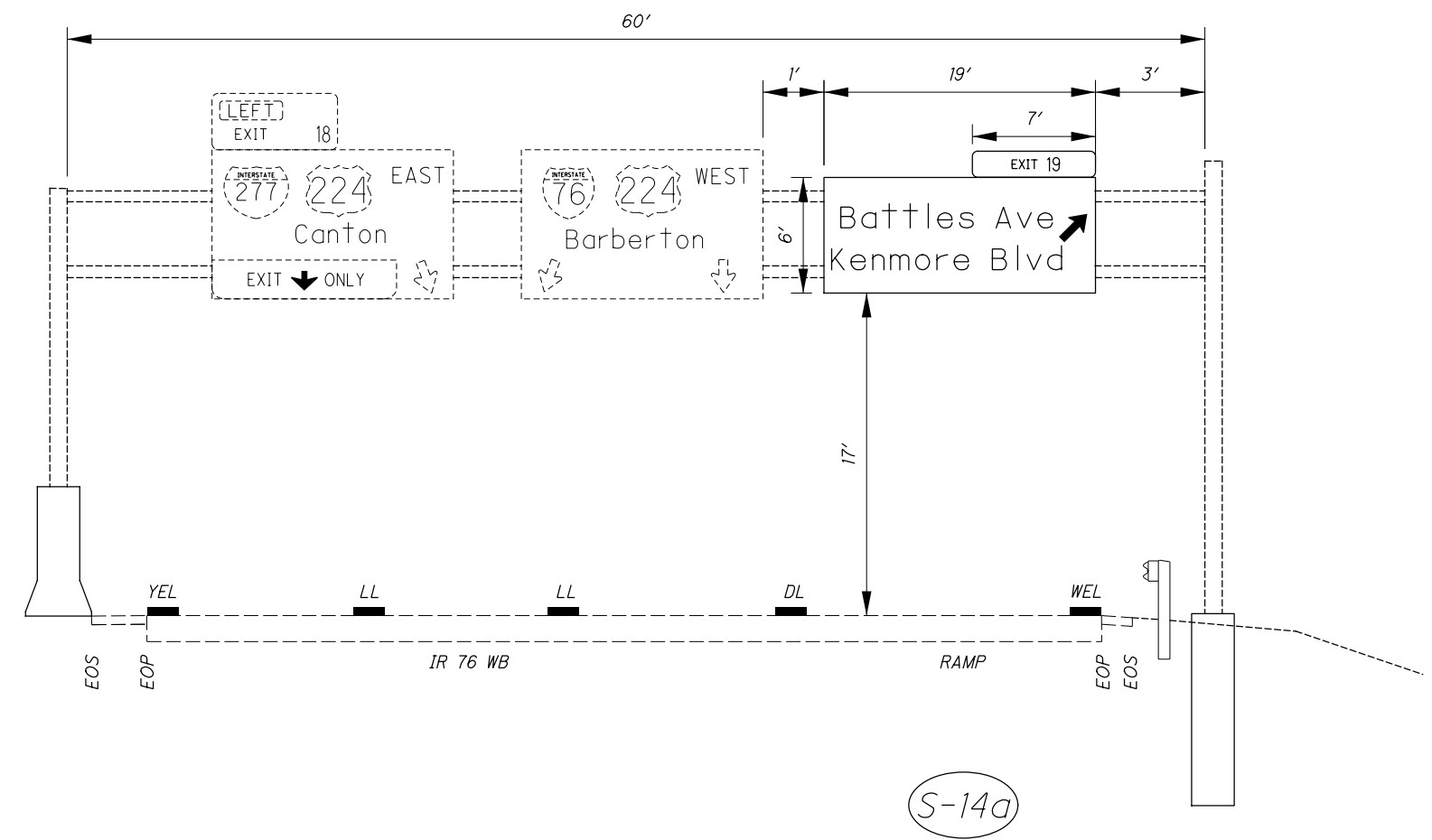
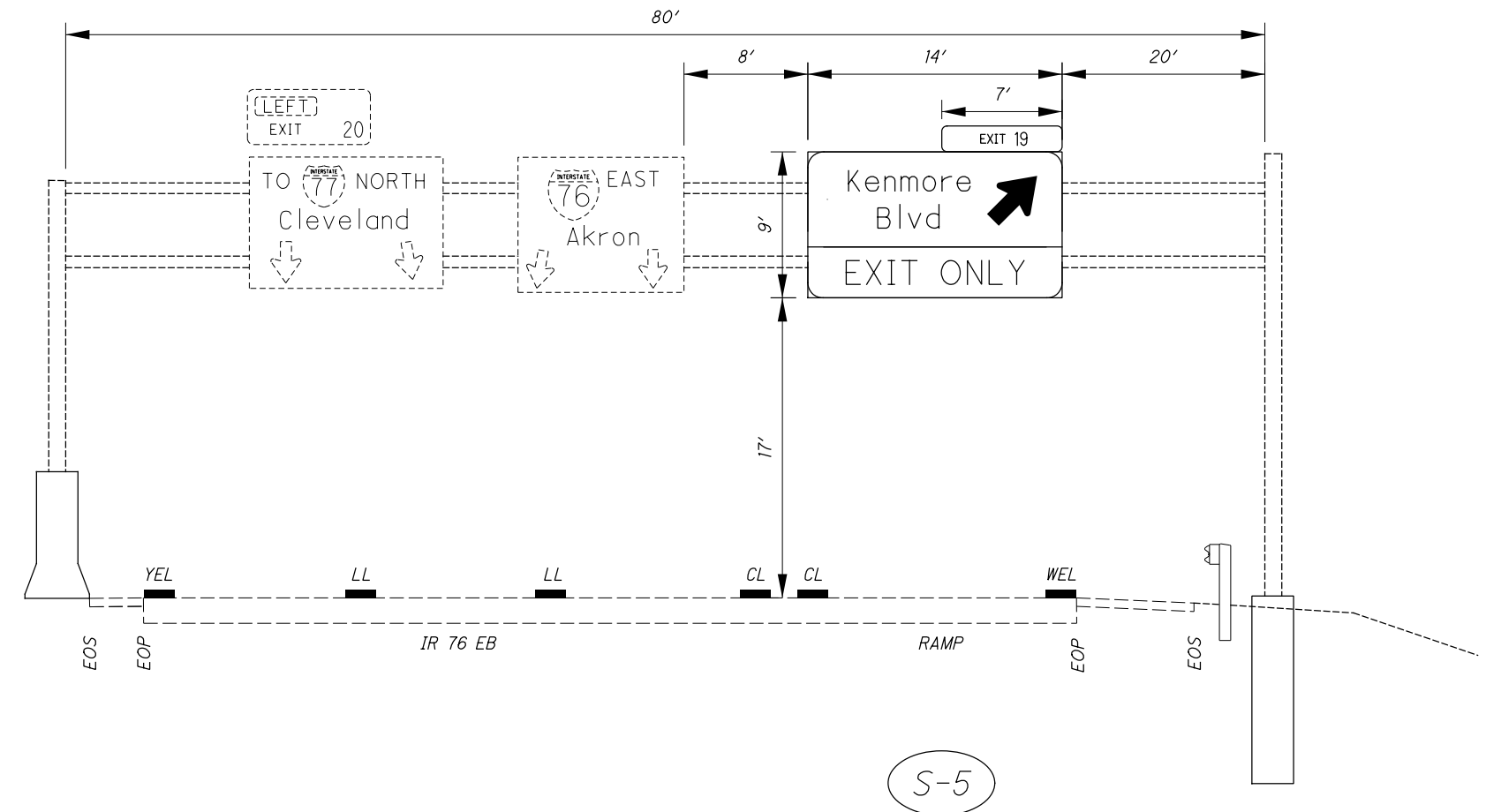
- LL = LANE LINE
- YEL = YELLOW EDGE LINE
- WEL = WHITE EDGE LINE
- CL = CHANNELIZING LINE
- DL = DOTTED LINE
- EOP = EDGE OF PAVEMENT
- EOS = EDGE OF SHOULDER
- OTC = OHIO TURNPIKE COMMISSION



END AREA	VOLUME	CALCULATED	CHECKED	RMB
<b>CROSS SECTIONS SIGNS</b>				
<b>SUM-76 / VAR-6.90 / VAR SIGNS</b>				
25 30				

SEEDING  
END WIDTH SO. YDS.  
I:\ProjectData\SUM\05080\_SIGNS\Design\Roadway\Sheets\05080\_IP\_Cross Sections.dgn Sheet 76 (I) 2/4/2020 2:40:23 PM jfitzsim

- LEGEND
- LL = LANE LINE
  - YEL = YELLOW EDGE LINE
  - WEL = WHITE EDGE LINE
  - CL = CHANNELIZING LINE
  - DL = DOTTED LINE
  - EOP = EDGE OF PAVEMENT
  - EOS = EDGE OF SHOULDER
  - OTC = OHIO TURNPIKE COMMISSION



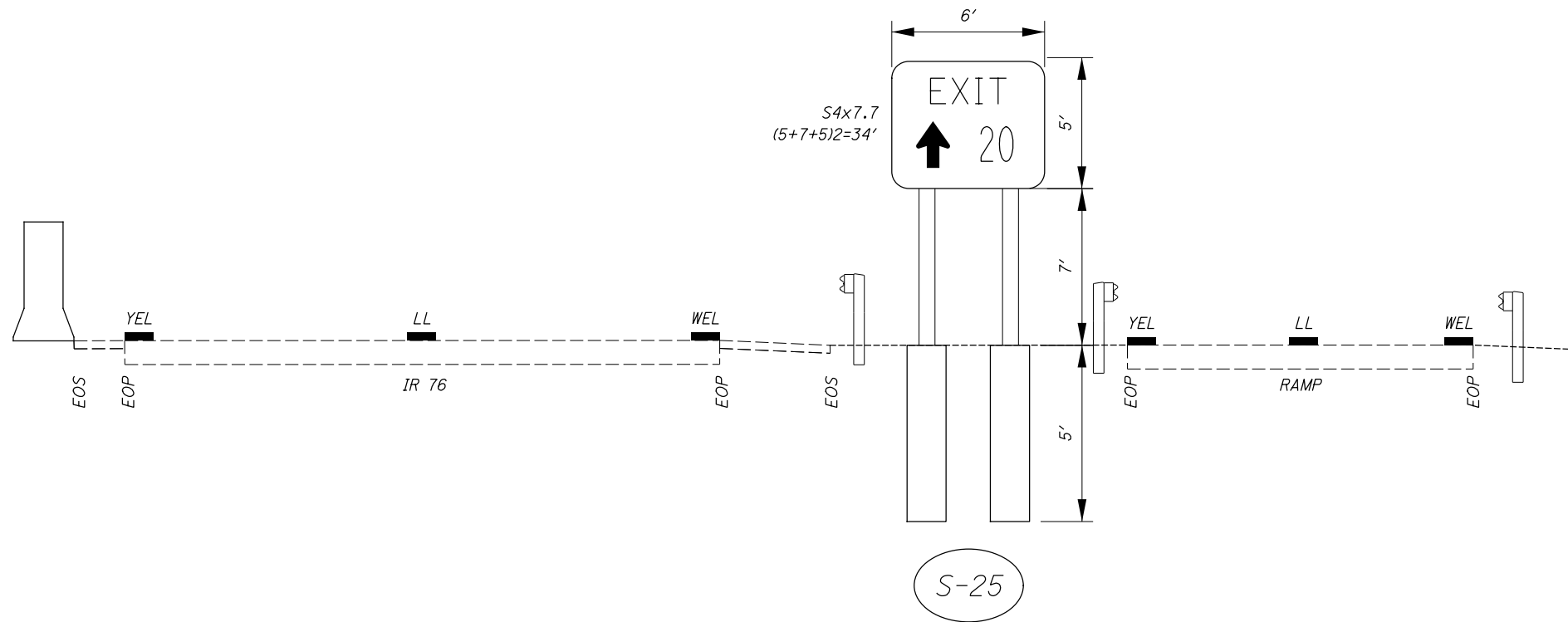
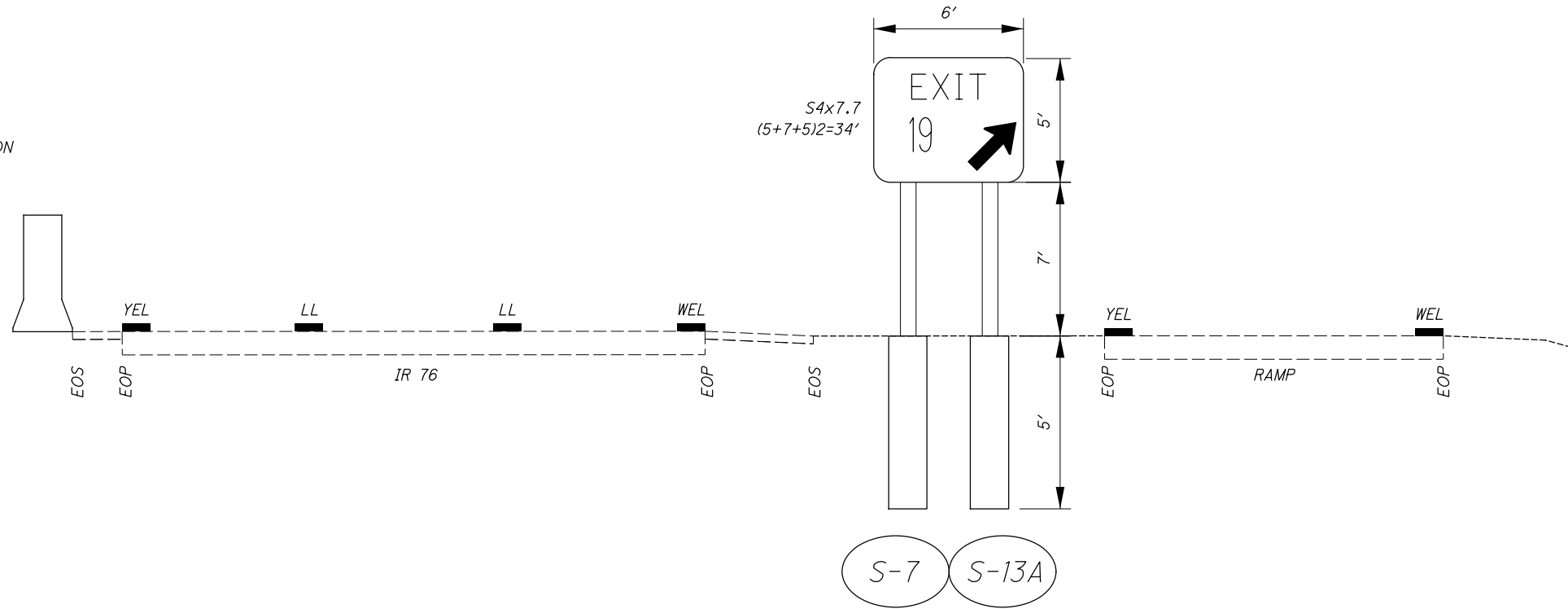
END AREA		VOLUME		CALCULATED CMR	CHECKED RMB
CUT	FILL	CUT	FILL		
<b>CROSS SECTIONS SIGNS</b>					
<b>SUM-76 / VAR-6.90 / VAR SIGNS</b>					
26 30					

I:\Project+Data\SUM\05080\_SIGNS\Design\Roadway\Sheets\05080\_TP\_Cross\_Sections.dgn Sheet 76 (2) 2/4/2020 2:40:23 PM Jfitzsim

SEEDING	
END WIDTH	SO. YDS.

LEGEND

- LL = LANE LINE
- YEL = YELLOW EDGE LINE
- WEL = WHITE EDGE LINE
- CL = CHANNELIZING LINE
- DL = DOTTED LINE
- EOP = EDGE OF PAVEMENT
- EOS = EDGE OF SHOULDER
- OTC = OHIO TURNPIKE COMMISSION



END AREA	VOLUME	CALCULATED	CHECKED	RMB		
					CUT	FILL
<b>CROSS SECTIONS SIGNS</b>						
<b>SUM-76 / VAR-6.90 / VAR SIGNS</b>						
<table border="1"> <tr> <td>27</td> </tr> <tr> <td>30</td> </tr> </table>					27	30
27						
30						



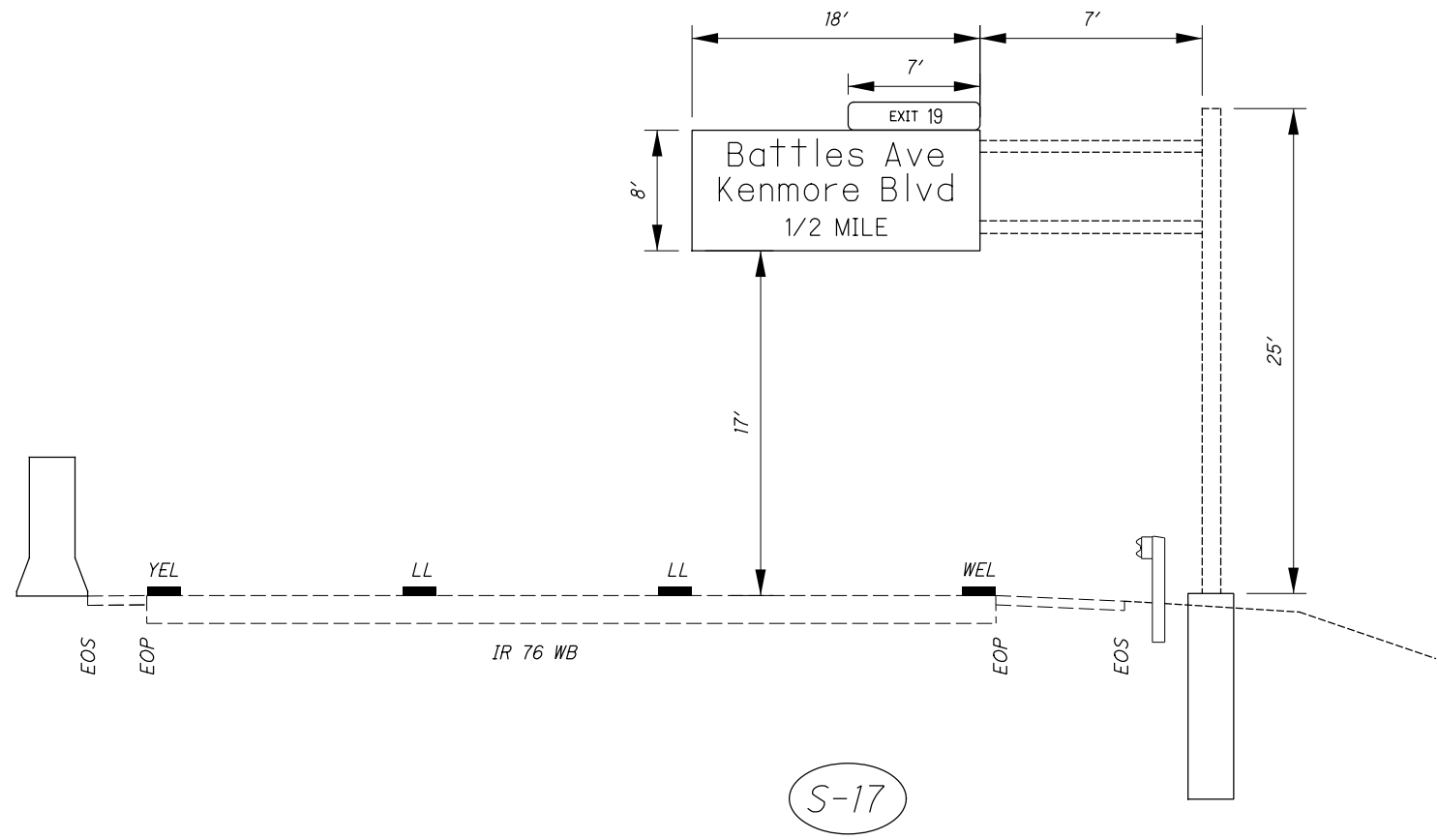
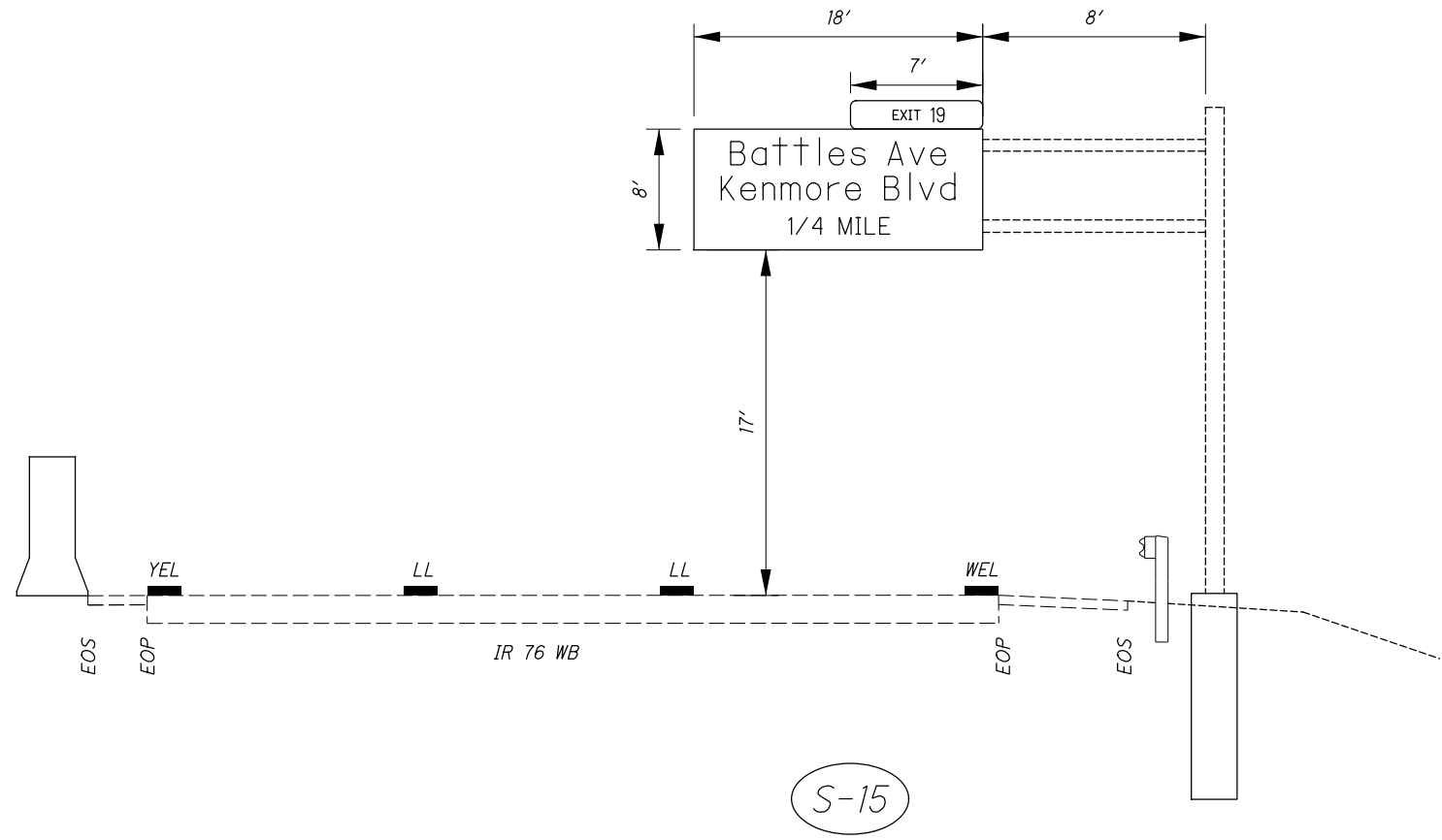
I:\ProjectData\SUM\05080\_SIGNS\Design\Roadway\Sheets\05080\_IP\_Cross\_Sections.dgn Sheet 76 (3) 2/4/2020 2:40:24 PM jfitzsim

SEEDING

END WIDTH	SO. YDS.

LEGEND

- LL = LANE LINE
- YEL = YELLOW EDGE LINE
- WEL = WHITE EDGE LINE
- CL = CHANNELIZING LINE
- DL = DOTTED LINE
- EOP = EDGE OF PAVEMENT
- EOS = EDGE OF SHOULDER
- OTC = OHIO TURNPIKE COMMISSION



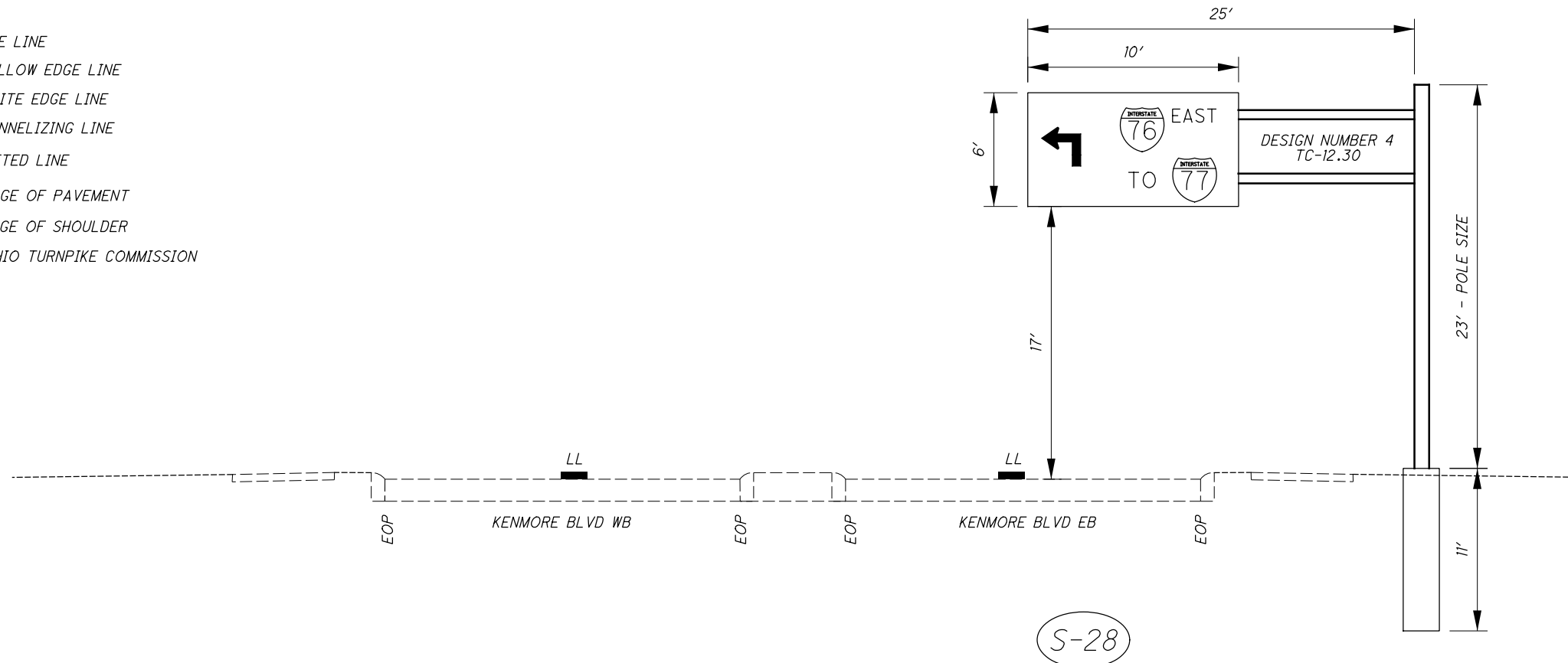
END AREA		VOLUME		CALCULATED CMR	CHECKED RMB
CUT	FILL	CUT	FILL		
<b>CROSS SECTIONS SIGNS</b>					
<b>SUM-76 / VAR-6.90 / VAR SIGNS</b>					
28 30					

I:\Project+Data\SUM\05080\_SIGNS\Roadway\Sheets\05080\_IP\_Cross\_Sections.dgn Sheet 76 (T) 2/4/2020 2:40:24 PM jfitzsim

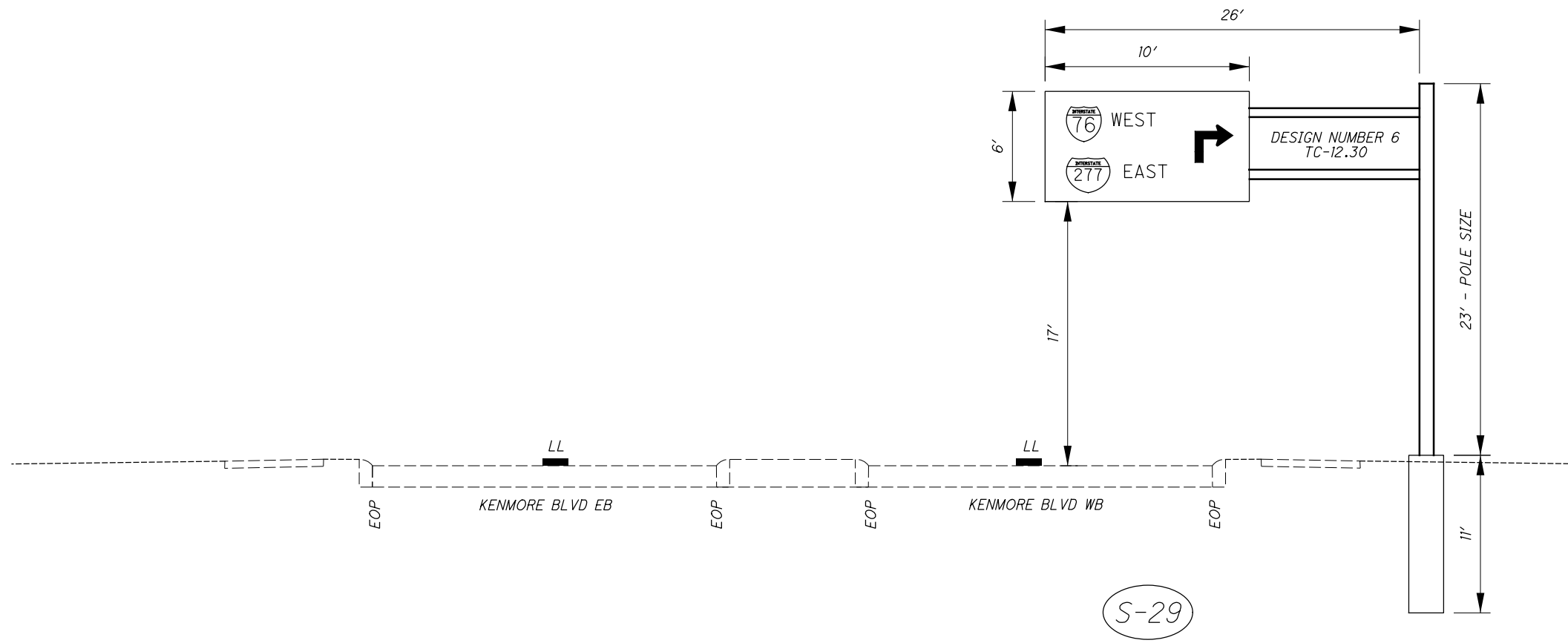
SEEDING	
END WIDTH	SO. YDS.

LEGEND

- LL = LANE LINE
- YEL = YELLOW EDGE LINE
- WEL = WHITE EDGE LINE
- CL = CHANNELIZING LINE
- DL = DOTTED LINE
- EOP = EDGE OF PAVEMENT
- EOS = EDGE OF SHOULDER
- OTC = OHIO TURNPIKE COMMISSION



S-28



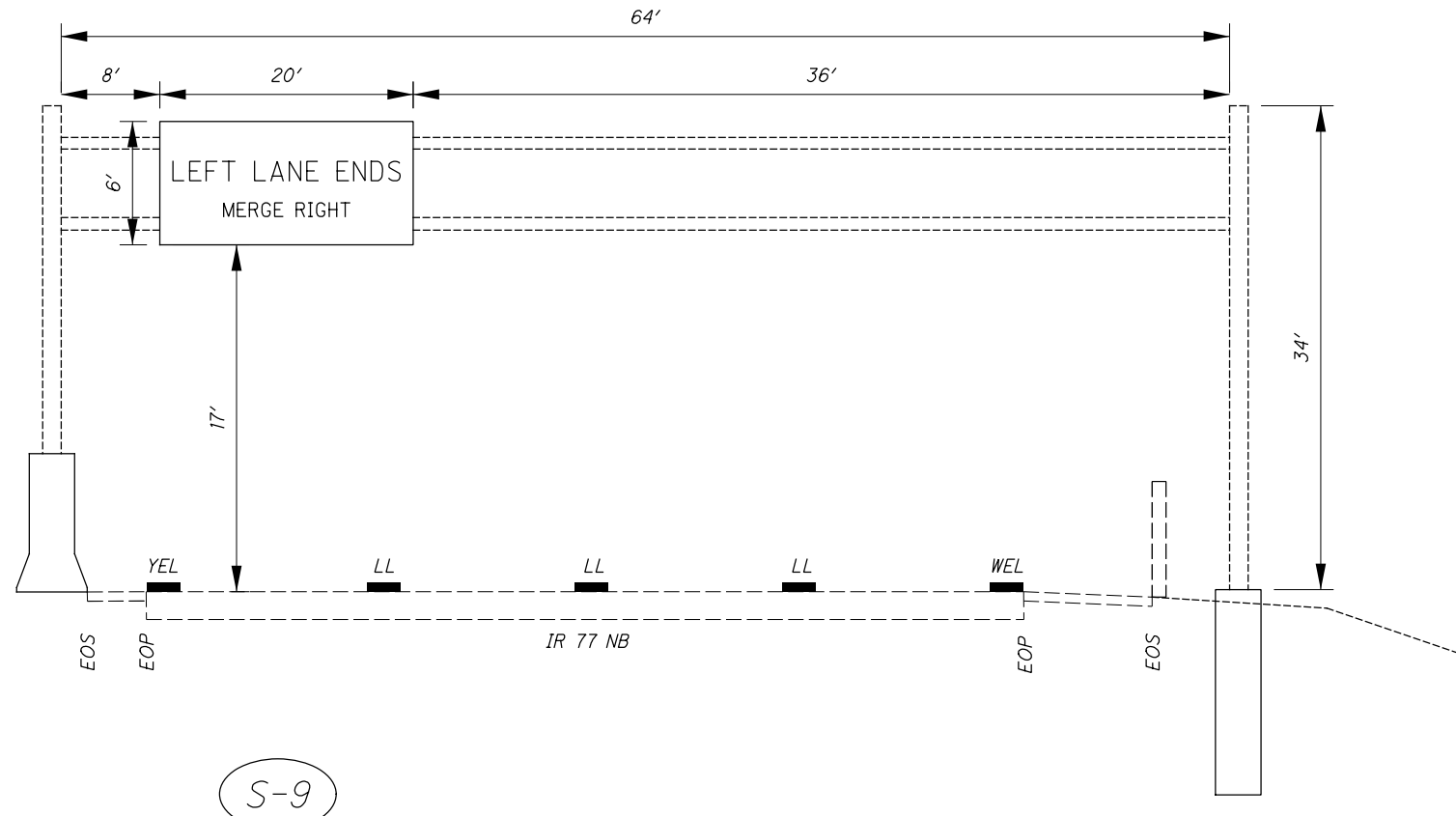
S-29

END AREA	VOLUME	CALCULATED	CHECKED	RMB
<b>CROSS SECTIONS SIGNS</b>				
<b>SUM-76 / VAR-6.90 / VAR SIGNS</b>				
29 30				

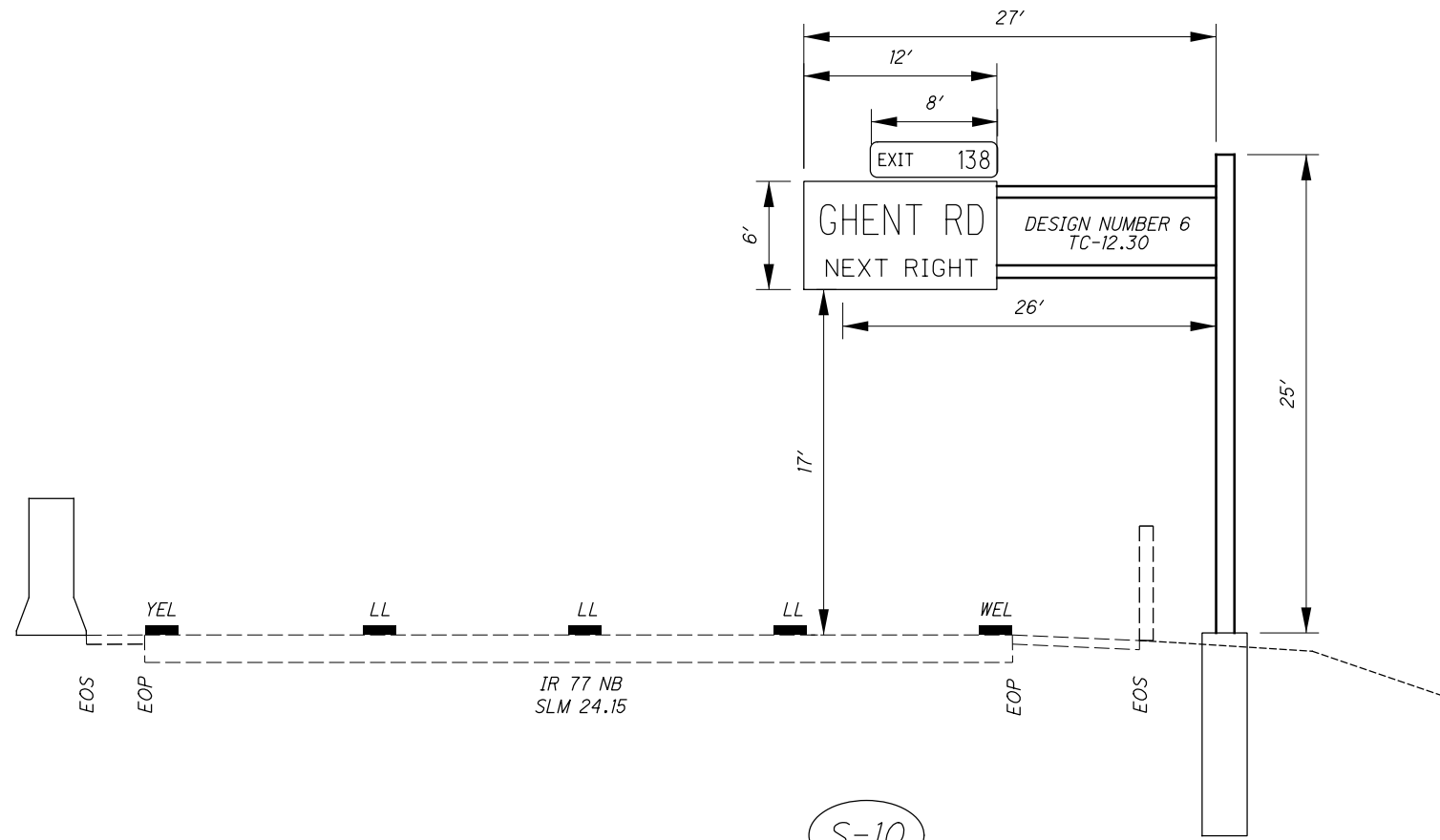
SEEDING	
END WIDTH	SO. YDS.

**LEGEND**

- LL = LANE LINE
- YEL = YELLOW EDGE LINE
- WEL = WHITE EDGE LINE
- CL = CENTER LINE
- DL = DOTTED LINE
- EOP = EDGE OF PAVEMENT
- EOS = EDGE OF SHOULDER
- OTC = OHIO TURNPIKE COMMISSION



S-9



S-10

END AREA		VOLUME		CALCULATED CMR	CHECKED RMB
CUT	FILL	CUT	FILL		

**CROSS SECTIONS  
SIGNS**

**SUM-76 / VAR-6.90 / VAR  
SIGNS**

30
30