



**Overhead Sign Support**

	CRS	Description
1	RIC-71-6.061	SUP0133022 - Cantilever - Remove and replace the existing support and foundation. Remove and replace the existing signs.
2	HUR-39008-0.00	SUP0131025 -Cantilever - Remove and replace the existing support and foundations. Remove and reuse the existing sign.
3	LOR-10-0.708	Sup0045436 -Cantilever - Remove and replace the existing support and foundations. Remove and reuse the existing signs.
4	LOR-10-6.291	Sup0045445 - Box Truss - Remove and replace the existing support and foundations. Remove and reuse the existing signs.
5	LOR-20-15.298	SUP0133103 - Bridge Mounted - Remove the existing bridge mounted sign and support. Install a new ground mounted sign and I-beam support.
6	LOR-2-1.522	SUP0055775 - Bridge Mounted - Remove the existing bridge mounted sign and support. Reuse the existing sign (if size correct) Install a new ground mounted I-beam support.
7	LOR-2-7.438	SUP0052039 - Bridge Mounted - Remove and replace the existing bridge mounted sign and support. Remove and replace the existing sign.
8	LOR-57-19.161	Sup0132874 - Box Truss - Remove and replace the existing support and foundations. Remove and reuse the existing sign SGN0197558. Remove and replace the existing sign - SGN0196189 with updated TOLL (black on yellow). See attached existing plan for additional information.
9	LOR-113-12.642	SUP0049814 - Box Truss - Remove and replace the existing support and foundations. Remove and reuse the existing signs.
10	RIC-309-6.158	SUP0064914 - Box Truss - Remove the existing support, foundations, and signs. Remove the existing guardrail and concrete barrier. Install a new ground mounted sign and I-beam support in the median for SR 309 and on the south side for SR 401.
11	RIC-309-6.158	SUP0064838 - Box Truss - Remove the existing support, foundations, and signs. Remove the existing guardrail and concrete barrier. Install a new ground mounted sign and I-beam support in the median for SR 309 and on the south side for SR 401.

# Project Scope

PID

116636

Project Name

D03 Overhead Sign Support Project

## Maintenance of Traffic (MOT)

MOT Item 1 of 1	MOT Type	Lane Closure	Feature	Sign Supports	Coordination Needed	Yes
	CRS	D-03 Various	Duration	(Days)	Municipality	See Below
	Disincentive	Lane Closure	\$50/min for PLCS locations, \$8,500/day for holiday/event	(Amt.)	Work Zone Speed Zone	Yes
				PLCS	No	
	MOT Exception	No		(Desc.)	LEO No. of Hours	16

**Conflict**

**Description**

**Route**

**Dates to Avoid**

Include note: Include note to coordinate with any other active projects

Comments

RIC -71-6.06: follow PLCS (include 8 LEO hours per day of work)  
 HUR-18 (Ramp 39008): maintain one lane of traffic in each direction  
 LOR-2-1.52: follow PLCS (coordinate with Vermilion)  
 LOR-2-7.44: follow PLCS (coordinate with Amherst)  
 LOR-10-0.71: follow PLCS  
 LOR-10-6.29: follow PLCS (include 8 LEO hours per day of work)  
 LOR-20-15.30: follow PLCS  
 LOR-57-19.16: maintain one lane of traffic in each direction (coordinate with Elyria), no lane closures 7am-9am and 2pm-6pm  
 LOR-113-12.64: maintain one lane of traffic in each direction (coordinate with Elyria)  
 RIC-309-6.16: maintain one lane of traffic in each direction (coordinate with Ontario)  
 RIC-309-6.25: maintain one lane of traffic in each direction (coordinate with Ontario)

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## Environmental

Environ. Category	Code	Responsibility																				
<b>C1</b>	I	In-House	D03 Overhead Sign Support Project																			
	T	OES Task Order																				
	C	Consultant Services																				
	-	Not Applicable																				
<b>Cultural</b>	Section 106 - Scoping Request Form (*)		I	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Phase 1 Hist./Arch. Survey Rpt. (If Auth.)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Phase 1 Arch. Survey Report (If Auth.)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
<b>Forms</b>	Determination Request Form		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Individual Section 4(f) Eval.		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Section 6(f) Documentation		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
<b>Ecology</b>	Ecological Exempt Form (*)		I	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Level 1 Ecological Survey Reports		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	UNIONID Mussel Survey Report		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Sole Source Aquifer Coordination		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Farmland Conversion Impact Rating Form		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
<b>Waterway Permits</b>	Overhead Sign Support Improvements at various locations		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Concp. Stream/Wetland Mitg. Rpts.		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Section 404/401 Applications		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	USACE Pre-Constr. Notification (PCN) Applications		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Ohio EPA Isol. Wetland Permit Pre-Act. Notif. (PAN)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Coastguard Section 9 Application		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	ACOE Section 10 Permit		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Floodplain Permit Application		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Floodplain Coordination		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Coastal Waterway Permit		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	<b>Site</b>	Regulated Mat. Review (RMR) (*)		I	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Phase 1 Env. Site Assess. Rpt. (If Auth.)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Asbestos Survey/Inspection		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	<b>Air</b>	Ozone Analysis		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		MSAT Analysis		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
PM 2.5 Analysis		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
<b>Noise</b>	Traffic Noise Analysis Report		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Noise Barrier Public Involvement Summary		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Public Involvement Plan		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
<b>Public</b>	Public Meeting Activities		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Public Announce. (webpage, article, news release)		I	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Underserved Population Outreach		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

Any Known Env. Concerns (ex. historic properties on Nat. Reg., wetlands, underground storage tanks, stream reloc.)  
 There is no anticipated tree removal on this project. The majority of the structures are being removed and replaced in the same location. Two structures are to be removed from bridge structures and moved to ground mounted signs. The ground mounted signs are to be situated to avoid tree removal.

# Project Scope

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116636

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## Right-of-Way

R/W Site 1 of 1

Feature CRS   
 Feature Type

		Responsibility	
R/W Type	<input type="text" value="Existing R/W"/>	Titles	<input type="text" value="Not Anticipated"/>
Known Relocations?	<input type="text" value="No"/>	Appraisal	<input type="text" value="Not Anticipated"/>
Access Modification Req'd?	<input type="text" value="No"/>	Appraisal Review	<input type="text" value="Not Anticipated"/>
Estimated No. of Parcels	<input type="text" value="0"/>	R/W Acquisition Services	<input type="text" value="Not Anticipated"/>
Estimated No. of Owners	<input type="text" value="0"/>	R/W Acquisition Cost Est.	<input type="text" value="Not Anticipated"/>
Land Use	<input type="text"/>	R/W Plans	<input type="text" value="Not Anticipated"/>

Comments

Reason for Additional R/W

## Survey

Survey Site 1 of 1

CRS  Asset Type  Surveyor

Monumentation  
Mapping  
Topo

	Count	Responsibility
Type 'A' Control Monument	<input type="text"/> Monuments	<input type="text" value="Dsgn Consultant"/>
Type 'B' Control Monument	<input type="text"/> Monuments	<input type="text" value="Dsgn Consultant"/>
Mon. Recovery for Existing CL and R/W	<input type="text"/> Miles	<input type="text" value="Dsgn Consultant"/>
Monument Recovery for Property Lines	<input type="text"/> Owners	<input type="text" value="Dsgn Consultant"/>
Stake R/W for Acquisition/Utilities/Tree Clearing	<input type="text"/> Owners	<input type="text" value="Dsgn Consultant"/>
Pin New R/W Following Construction	<input type="text"/> Owners	<input type="text" value="Dsgn Consultant"/>
Base Mapping (and Field Verify)	<input type="text"/> Tenths of a Mile	<input type="text" value="Dsgn Consultant"/>
Est. Prop. Lines, Tax ID, Owners on Map	<input type="text"/> Owners	<input type="text" value="Dsgn Consultant"/>
Property Owner Notification	<input type="text"/> Owners	<input type="text" value="Dsgn Consultant"/>
Soil Boring Staking	<input type="text"/> Borings	<input type="text" value="Dsgn Consultant"/>
Intersects <input type="text" value="Select..."/>	<input type="text"/> Tenths of a Mile	<input type="text" value="Dsgn Consultant"/>
Topo for <input type="text" value="Other Topographic Survey"/>	Length Width <input type="text"/>	<input type="text" value="Tenths of a Mile"/>
		<input type="text" value="Select..."/>

Comments

1. Type "B" monument - benchmark established for each location.
2. Soil borings to be staked where applicable.
3. Strip topographic surveys - generally 25' each direction from the overhead sign structure along the road path and 25' minimum from the edges of pavement. Vertical elevations to be provided of any overhead utilites especially on RIC 309.

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## Utilities

Utilities 1 of 1

Location Various sites D03  
Asset D03 Overhead Sign Supports

Name of Utility	Location/Description	Buried	Aerial	SUE Needed?	R/W Needed?	Reimbursable?
Power		...	...	...	...	...
Phone		...	...	...	...	...
Gas		...	...	...	...	...
Cable		...	...	...	...	...
Water		...	...	...	...	...
Sanitary		...	...	...	...	...
Comm.		...	...	...	...	...

Comments Highway contractor to contact 811 for a list of utilities at each location.

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116636

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## Legislation and Coordination

Leg.	Legislation Type	County	Municipality	Submission Date
	LETTER OF NOTIFICATION	LORAIN	AMHERST	
	CONSENT	LORAIN	ELYRIA	
	CONSENT	LORAIN	NORTH RIDGEVILLE	
	CONSENT	LORAIN	VERMILION	
	CONSENT	RICHLAND	ONTARIO	

Coordination	FAA	Yes	Railroad	No
	Detour Coordination	No	Floodplain	No
	Innovative Contracting	No	Bike Route or Trail within Project Limits	No
	Maintenance Agreement	No	Assets in Maintenance Agreement	
	Tree Removal	No	Type of Tree Removal Contract	n/a

Local  
 Comments  
 FAA notes to be added to the plans.

## Project Schedule

Project Schedule	Date		Date	
		Field Review Date	9/1/2026	Stage 2 Plans - Submitted
	9/18/2025	In-House Scope Meeting	10/1/2026	Stage 2 Plans - Complete
		<b>Project Initiation Package</b>	-	Compliance R/W Review Approv
	11/7/2025	<b>Initial Project Scope Complete</b>	-	Final R/W Plans - Approved
	-	Programmatic Date	-	R/W Authorized
	1/1/2026	Authorized Design Consultant	-	Waterway Permit Det.-Submit
	2/1/2026	Survey Deliverables Complete	-	404/401 Permits Submitted
	-	<b>Feasibility Study - Approved</b>	11/1/2026	Stage 3 Plans - Submitted
	-	<b>Alternative Evaluation Report - Appr.</b>	12/1/2026	Stage 3 Plans - Complete
	-	Preferred Alternative Approval	-	R/W Acquisition Complete
	2/1/2026	Begin In-House Detailed Design	12/15/2026	District R/W Certification
	2/1/2026	<b>NEPA Start Date</b>	-	Final Tracings Submitted
	-	Pre-Stage 1 - Submitted	12/15/2026	Final Tracings Complete
	3/1/2026	Pre-Stage 1 - Complete	1/1/2027	Plan Package Received in C.O.
		<b>Stage 1 Plans - Submitted</b>	4/1/2027	Sale Date
		<b>Stage 1 Plans - Approved</b>	4/1/2027	Award Date
	-	Preliminary R/W Plans - Approved	5/1/2027	Estimated Begin Construction
8/1/2026	<b>Environmental Doc. Approved</b>	10/31/2027	Estimated End Construction	

TED Office Required Milestones - All Projects

TED Office Required Milestones - >20M Projects

District Required Milestones - All Projects

Milestone not needed for all projects

Comments

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PID

116636

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D03 Overhead Sign Support Project

## Funding

Split / Priority	Name	Plan Split Code	Funding Source 1		Funding Source 1		Cost
			Source 1	Source 2	Source 1	Source 2	
			%	Fund	%	Fund	
1 / 1	CO CO Contr 01	01/NFP	100	4PS7	-	-	\$850,000.00
	<i>Descr:</i> <span style="float: right;">Other</span>						

## Funding Summary

Project Phase	Funding Source / Description	Percent (%)			FY	Phase Estimate (\$)
		Fed	State	Local		
Preliminary Engineering						
Environmental	PE Env GES 01	0	100	0	27	\$85,000.00
Detailed Design	PE Dtl Dsgn GES	0	100	0	27	\$15,000.00
Right of Way Services						
Right of Way Acquisition						
Utilities Reimbursement						
Construction Contract	CO CO Contr 01	0	100	0	27	\$850,000.00
Construction Engineering	CO CO Engr 01	0	100	0	27	\$35,000.00
<b>Total</b>						<b>\$985,000.00</b>

# Project Scope

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116636

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D03 Overhead Sign Support Project

## Map



OVERALL SITE MAP

# Project Scope

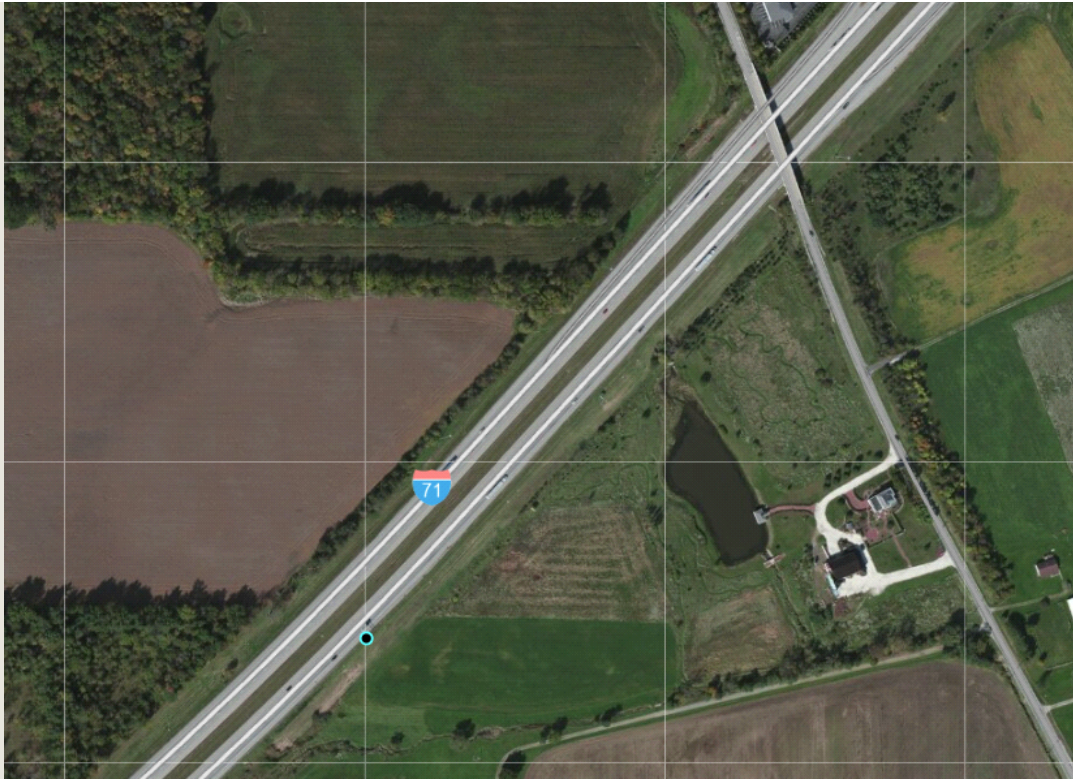
PID

116636

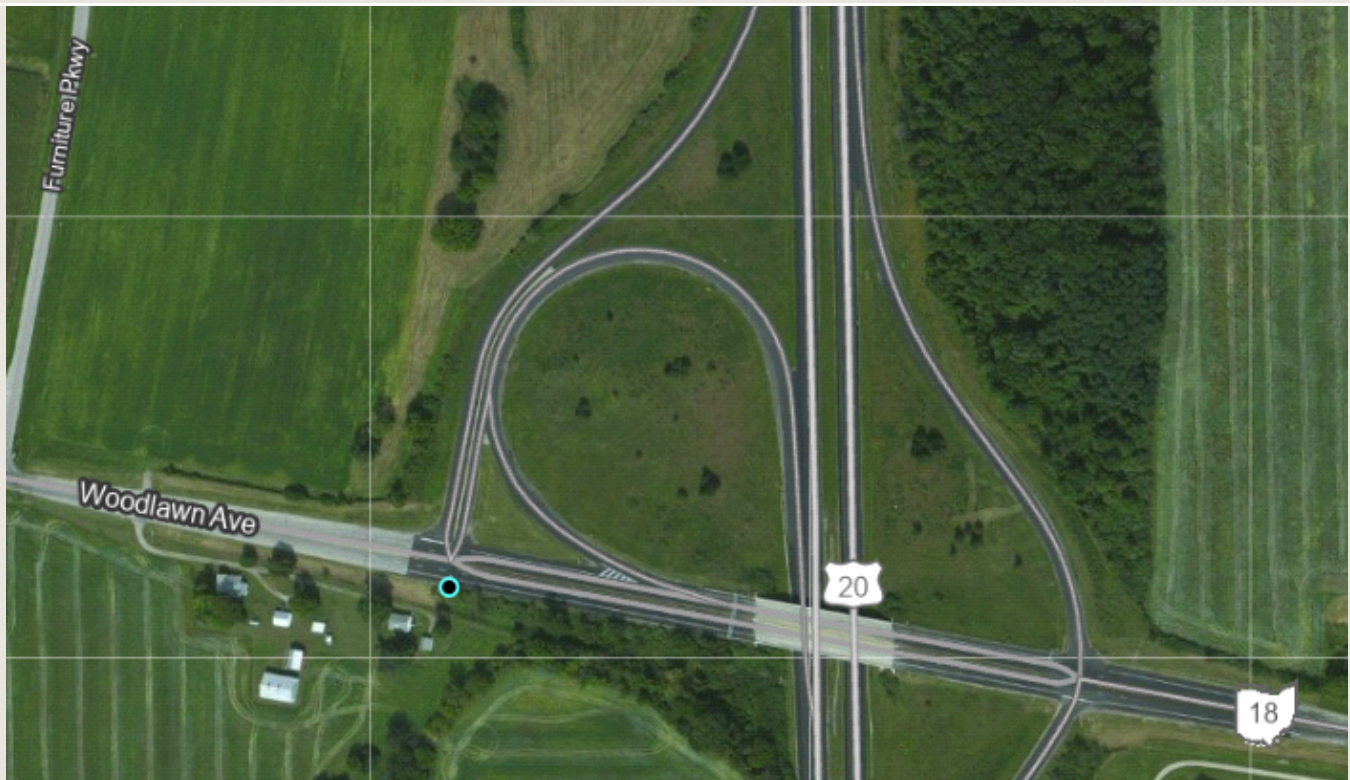
Project  
Name

D03 Overhead Sign Support Project

Map (continued)



ASD-71-7.277 - SUP0054153



HUR-39008-0.00 - SUP0131025

# Project Scope

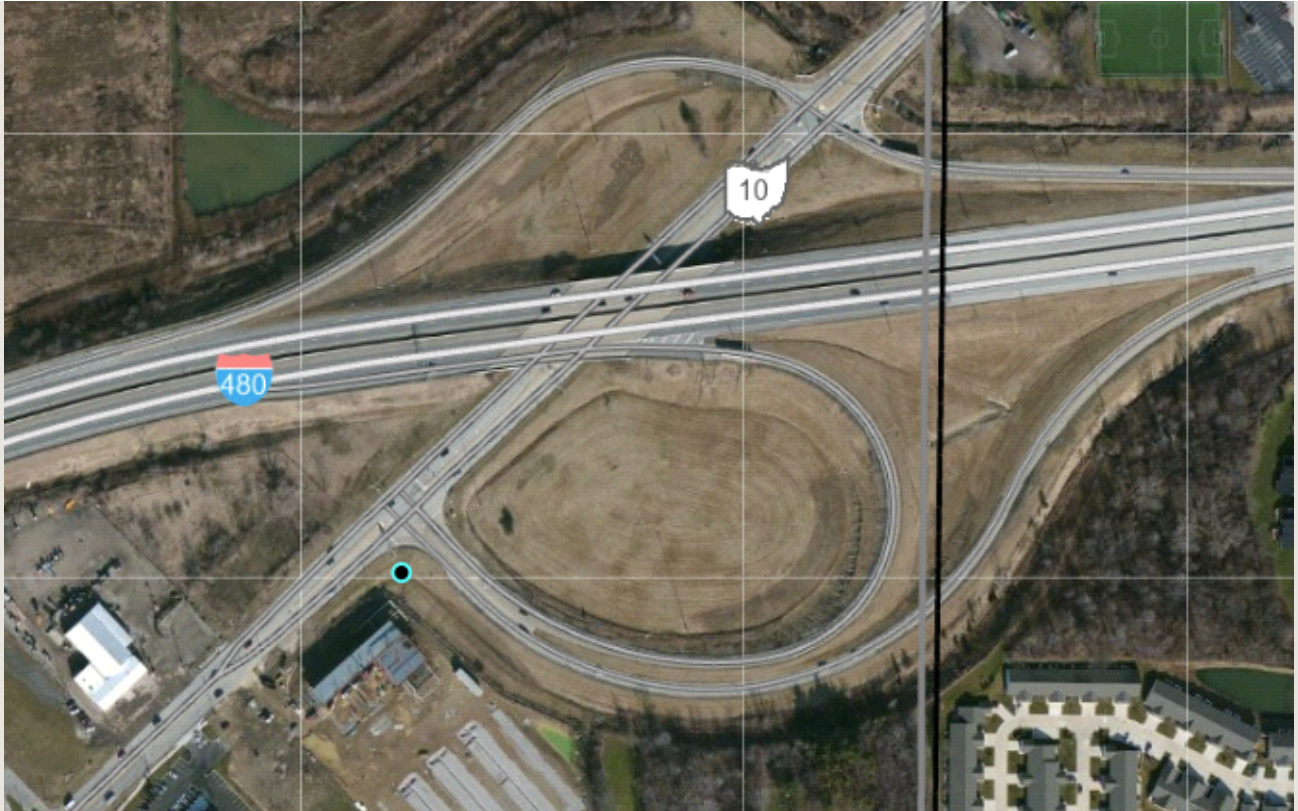
PID

116636

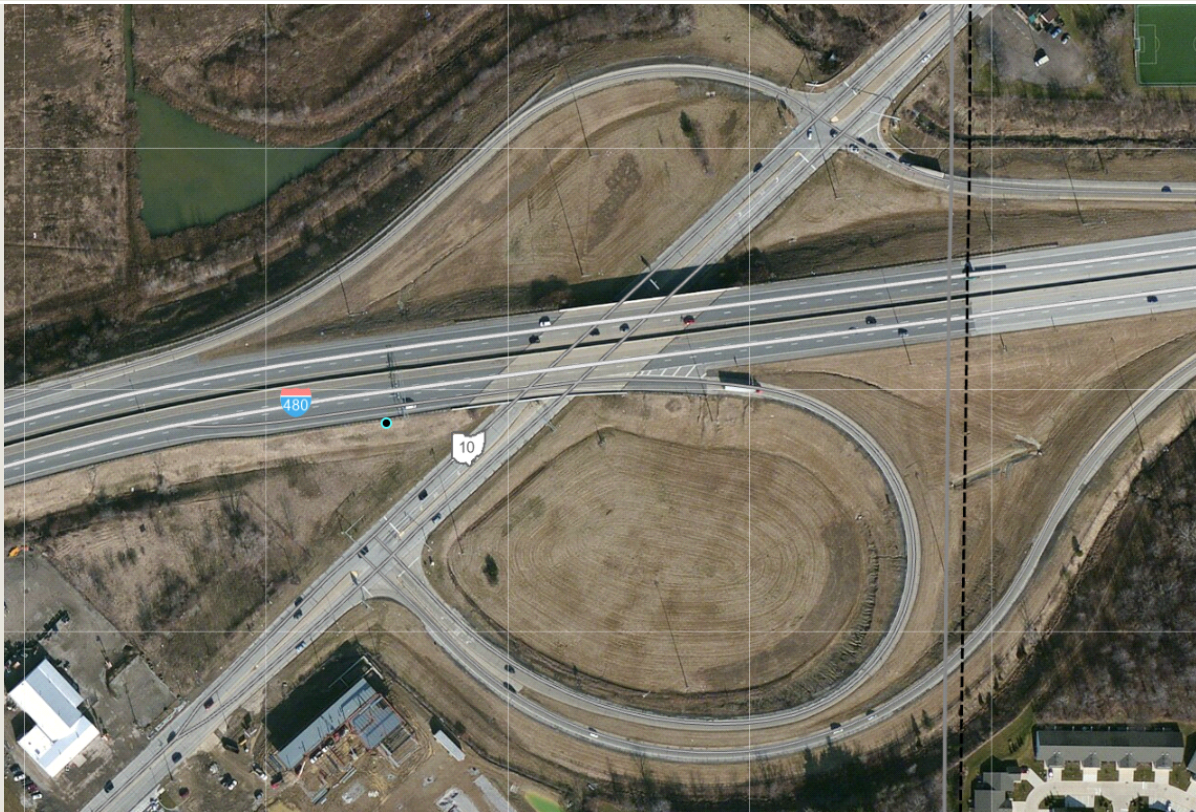
Project  
Name

D03 Overhead Sign Support Project

Map (continued)



LOR-10-0.708 - SUP0045436



LOR-10-6.291 - SUP0045445

# Project Scope

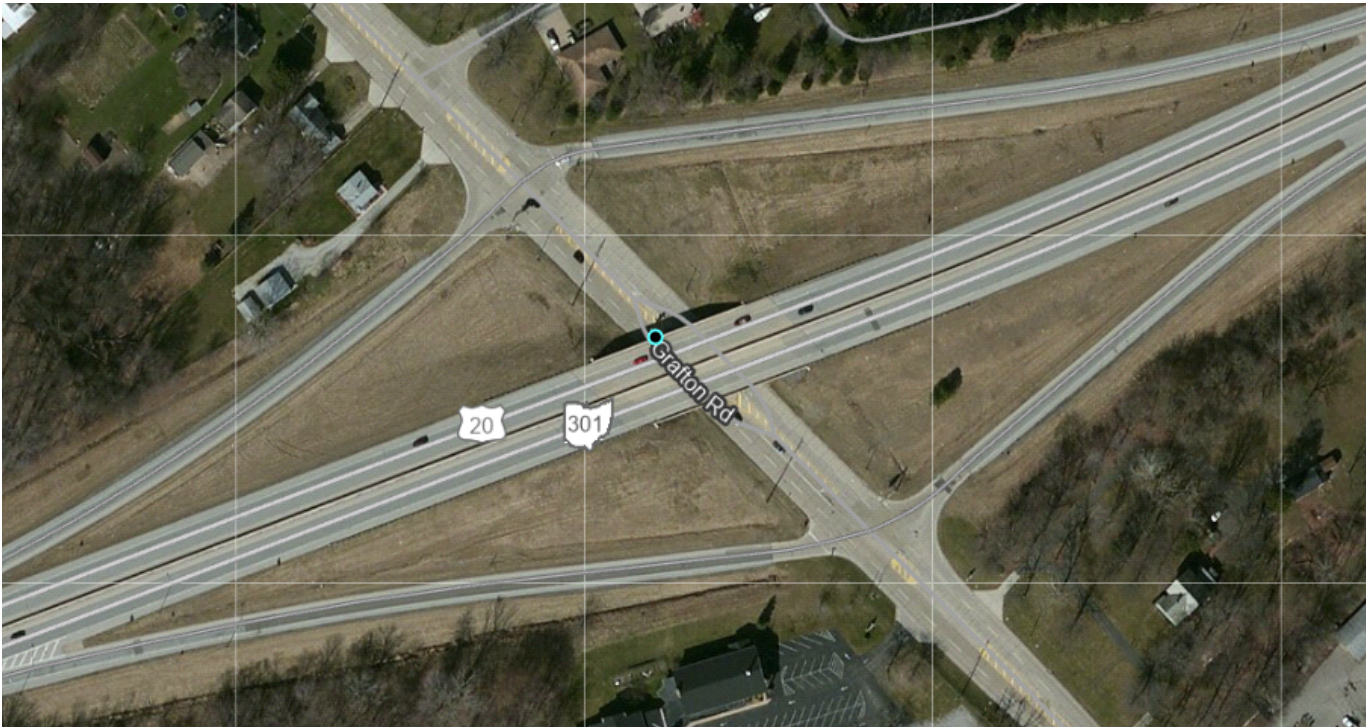
PID

116636

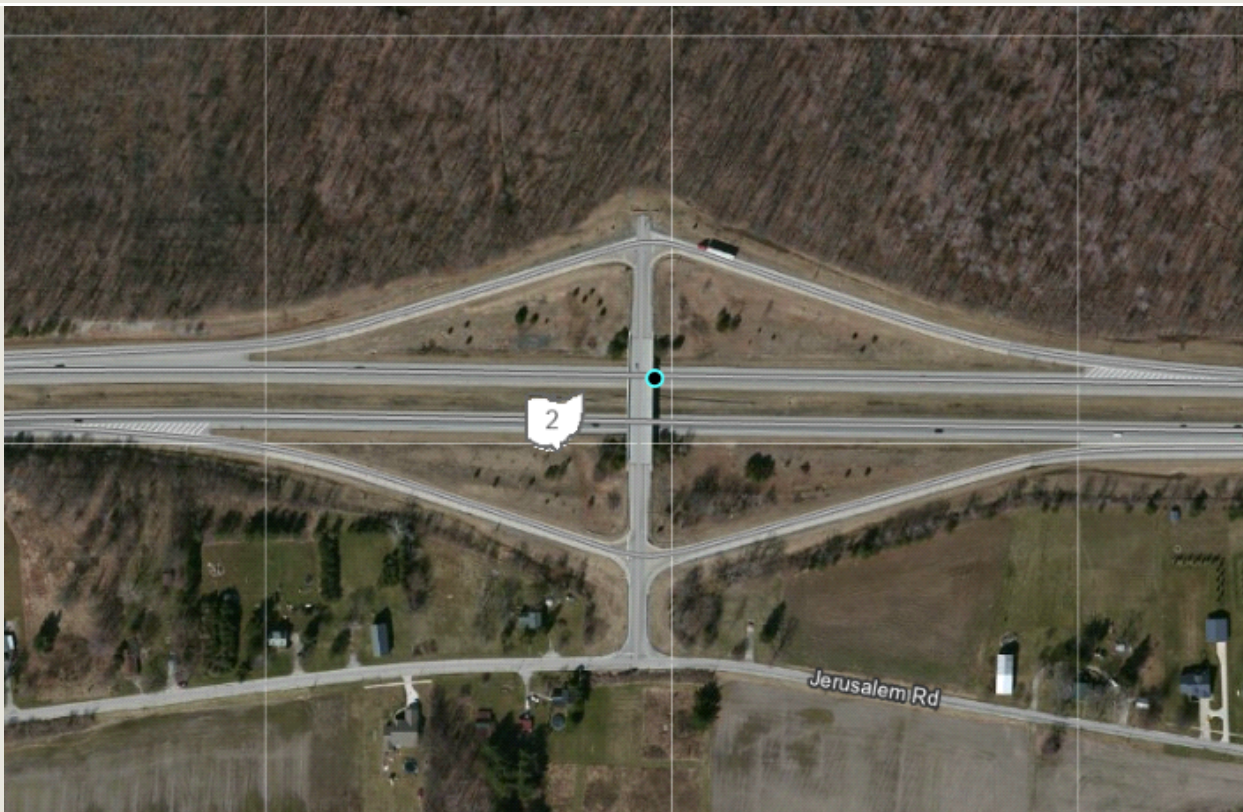
Project Name

D03 Overhead Sign Support Project

Map (continued)



LOR-20-15.298 - SUP0133103



LOR-2-1.522 - SUP0055775

**Project Scope**

PID

116636

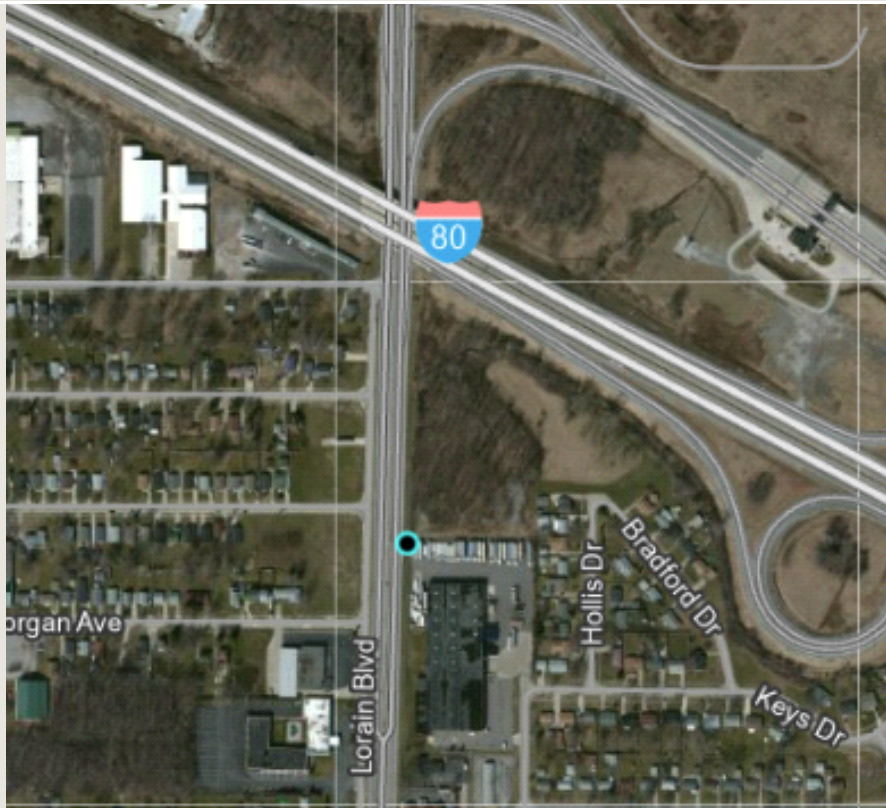
Project  
Name

D03 Overhead Sign Support Project

Map (continued)



LOR-2-7.438 - SUP0052039



LOR-57-19.161 - SUP0132874

# Project Scope

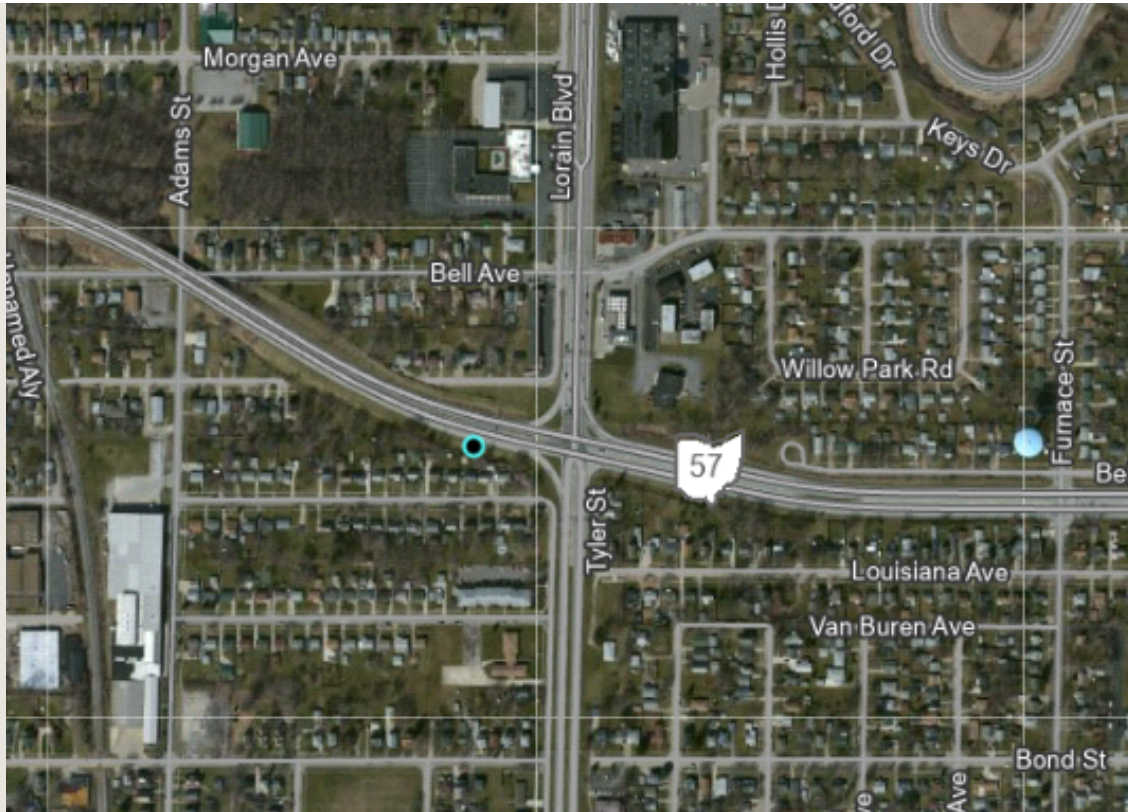
PID

116636

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D03 Overhead Sign Support Project

Map (continued)



LOR-113-12.642 - SUP0049814

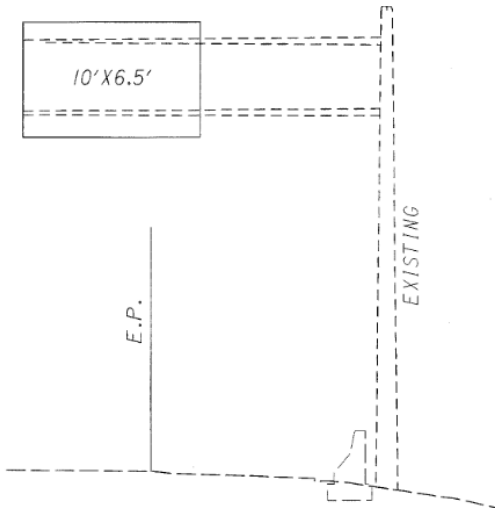
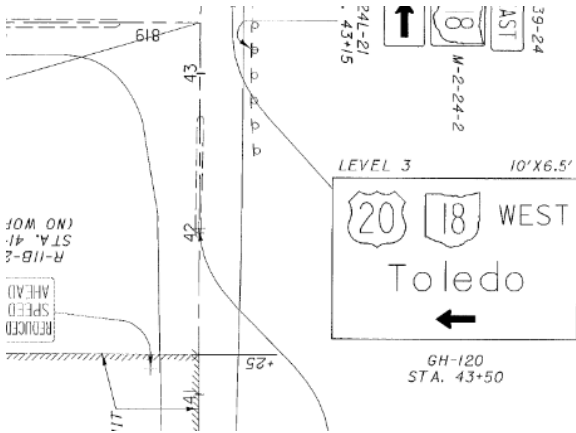


RIC-309-6.158 - SUP0064914





HUR-39008-0.00 SUP0131025  
 SIGN REPLACEMENT PLAN:  
 D03-20319-HUR-00020-0.98-2001-00  
 PLAN SHEET PAGE: 39  
 DETAIL SHEET PAGE: 54  
 SIGN SUB-SUMMARY PAGE: 80  
 PROPOSED WORK: REMOVE AND  
 REPLACE SUPPORT AND FOUNDATION

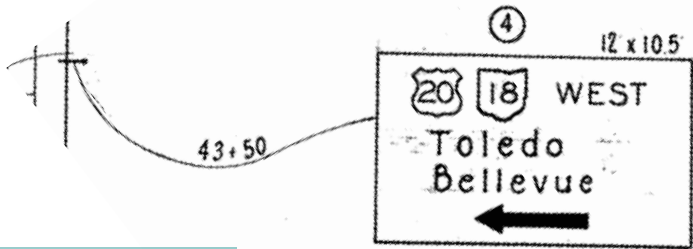


674 STA. 43+50 RT, EB SR 18

39	54	674	SR 18, EB	43+50 RT	GH-120	120X78	65.0
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SGN0194340  
 Sign Category Miscellaneous (Guide)  
 Sign Code Other  
 Additional Sign Text 20 18 WEST / TOLEDO / ←(M2-H6)  
 Mount Position Overhead  
 Travel Direction East  
 Blank Material Extrusheet  
 Sign Width (Inches) NONE PROVIDED  
 Sign Height (Inches) NONE PROVIDED  
 Sign Area (Sq Ft) NONE PROVIDED

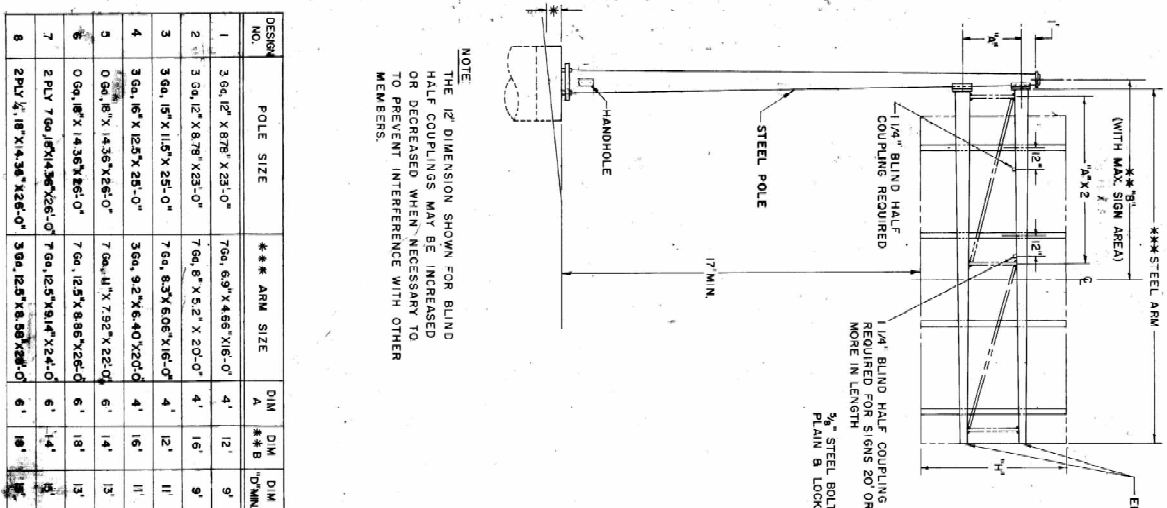
ORIGINAL PLAN HAD THE FOLLOWING  
 INFORMATION:  
 xxxxx-HUR-18-15.01-1968  
 PLAN SHEET PAGE: 70  
 DETAIL SHEET PAGE: 79A



**REMOVE AND REUSE THE  
 EXISTING SIGN.**

OVERHEAD SIGN SUPPORT

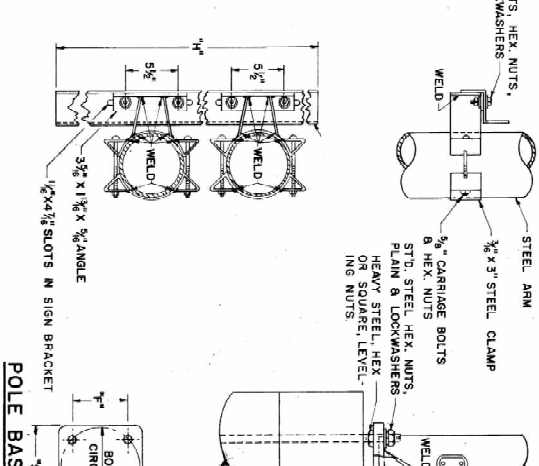
Big No. 1224



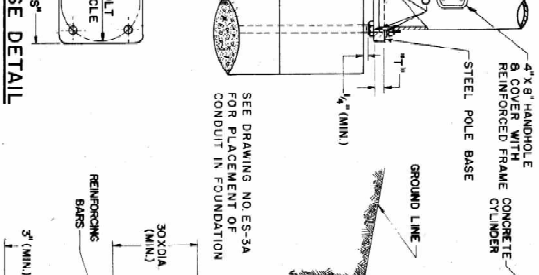
DESIGN NO. POLE SIZE \*\*\* ARM SIZE DIM A DIM B DIM C DIM D DIM E DIM F DIM G DIM H DIM I DIM J DIM K DIM L DIM M DIM N DIM O DIM P DIM Q DIM R DIM S DIM T ANCHOR BOLT SIZE MAX SIGN SIZE REINFORCING BARS

DESIGN NO.	POLE SIZE	*** ARM SIZE	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	DIM H	DIM I	DIM J	DIM K	DIM L	DIM M	DIM N	DIM O	DIM P	DIM Q	DIM R	DIM S	DIM T	ANCHOR BOLT SIZE	MAX SIGN SIZE	REINFORCING BARS
1	3 6/8" x 12" x 23'-0"	7 6/8" x 6 3/4" x 16'-0"	4'	12'	9'	3'-0"	11 1/2"	7 3/4"	17"	2"	16"	1 1/2" x 8 1/2"	8 0	3 1/2"	12								1 1/2" x 8 1/2"	8 0	3 1/2"
2	3 3/4" x 12" x 23'-0"	7 6/8" x 6 3/4" x 16'-0"	4'	12'	9'	3'-0"	11 1/2"	7 3/4"	17"	2"	16"	1 1/2" x 8 1/2"	8 0	3 1/2"	12								1 1/2" x 8 1/2"	8 0	3 1/2"
3	3 6/8" x 12" x 25'-0"	7 6/8" x 6 3/4" x 20'-0"	4'	12'	9'	3'-0"	11 1/2"	7 3/4"	17"	2"	16"	1 1/2" x 8 1/2"	8 0	3 1/2"	12								1 1/2" x 8 1/2"	8 0	3 1/2"
4	3 6/8" x 12" x 25'-0"	7 6/8" x 6 3/4" x 20'-0"	4'	12'	9'	3'-0"	11 1/2"	7 3/4"	17"	2"	16"	1 1/2" x 8 1/2"	8 0	3 1/2"	12								1 1/2" x 8 1/2"	8 0	3 1/2"
5	3 6/8" x 12" x 25'-0"	7 6/8" x 6 3/4" x 20'-0"	4'	12'	9'	3'-0"	11 1/2"	7 3/4"	17"	2"	16"	1 1/2" x 8 1/2"	8 0	3 1/2"	12								1 1/2" x 8 1/2"	8 0	3 1/2"
6	3 6/8" x 12" x 25'-0"	7 6/8" x 6 3/4" x 20'-0"	4'	12'	9'	3'-0"	11 1/2"	7 3/4"	17"	2"	16"	1 1/2" x 8 1/2"	8 0	3 1/2"	12								1 1/2" x 8 1/2"	8 0	3 1/2"
7	3 6/8" x 12" x 25'-0"	7 6/8" x 6 3/4" x 20'-0"	4'	12'	9'	3'-0"	11 1/2"	7 3/4"	17"	2"	16"	1 1/2" x 8 1/2"	8 0	3 1/2"	12								1 1/2" x 8 1/2"	8 0	3 1/2"
8	3 6/8" x 12" x 25'-0"	7 6/8" x 6 3/4" x 20'-0"	4'	12'	9'	3'-0"	11 1/2"	7 3/4"	17"	2"	16"	1 1/2" x 8 1/2"	8 0	3 1/2"	12								1 1/2" x 8 1/2"	8 0	3 1/2"

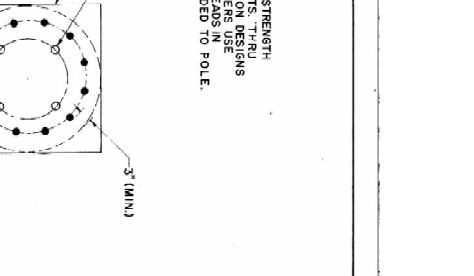
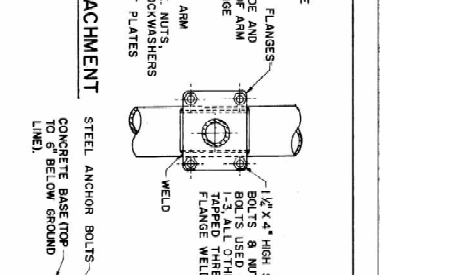
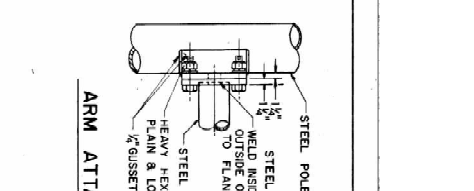
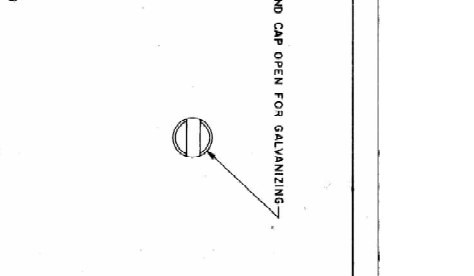
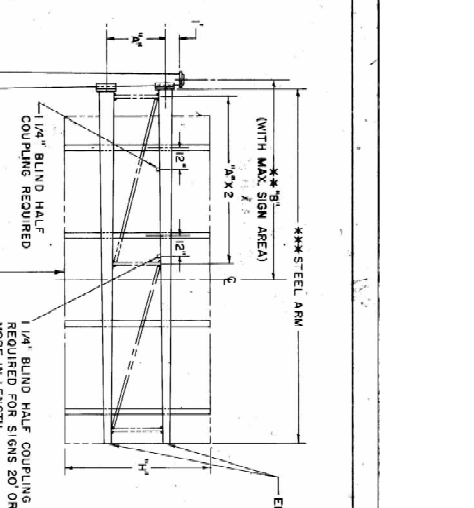
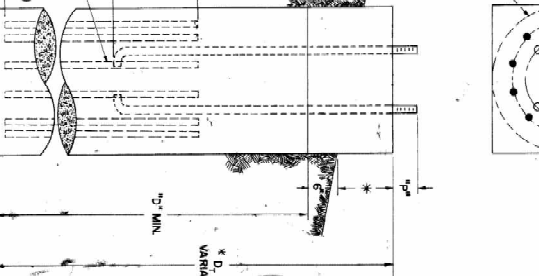
ARM ATTACHMENT DETAIL



POLE BASE DETAIL



FOUNDATION DETAIL



NOTES

1. FABRICATION-ALL PORTIONS OF THE SIGN SUPPORT INCLUDING SIGN ATTACHMENTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATIONS A-153 AND A-153-1. THE CONCRETE SHALL BE GALVANIZED IN ACCORDANCE WITH THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS FOR PAYMENT.

2. FOUNDATION-THE TOP ELEVATION OF FOUNDATION SHALL BE VARIED SO AS TO MAINTAIN A MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE SIGN AND THE HIGHEST SNOW.

3. ERECTION-VALUES OF "D" MAY BE EXCEEDED PROVIDED THE DISTANCE FROM "D" OF POLE TO THE AREA TIMES "D" DOES NOT EXCEED THE AREA TIMES "D".

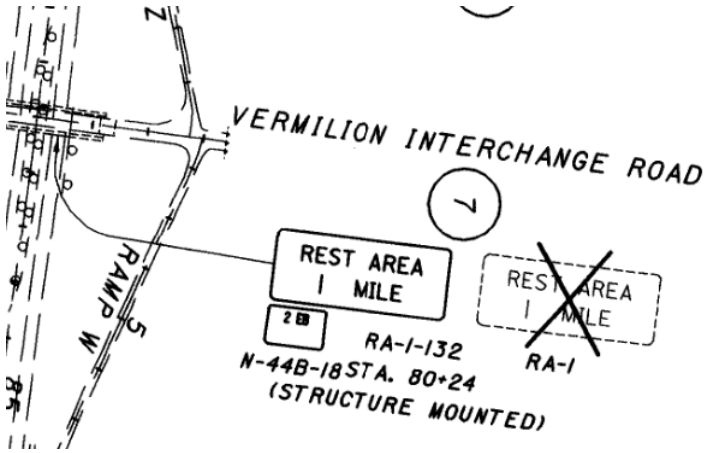
4. ARMS 20' LONG OR LONGER ARE TO BE WELDED TO THE POLE WITH 5/8" X 3/4" WELDS WELDED TO THE GUSSET PLATES.

5. MATERIAL-STEEL POLE BASES, FLANGES AND CAPS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION TO 30 GRADE B. HIGH STRENGTH STEEL BOLTS SHALL CONFORM TO ASTM SPECIFICATION A193. ANCHOR BOLTS SHALL HAVE A MINIMUM YIELD STRENGTH OF 45,000 PSI.

6. SOILS-THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY). FOR POOR SOIL CONDITIONS, INCREASE "D" 50% MORE OR WET SAND, 50% IN SILTY SOILS, 100% IN SOFT CLAY, AND FROM 75% TO 90% SILT, DEPENDING ON OVERSAND ACTION.

7. REINFORCING STEEL-REINFORCING STEEL IN TABLE SHALL BE INSTALLED WHEN "D" EXCEEDS ANCHOR BOLT LENGTH BY MORE THAN 1 FT. AND PLACEMENT OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR STEEL FOR SIGN SUPPORT FOUNDATIONS.

LOR-2-1.522 SUP0055775  
 PLAN: D03-25761-LOR-00002-0.97-2003-00  
 PLAN SHEET PAGE: 10  
 SIGN SUB-SUMMARY PAGE: 24  
 PROPOSED WORK: REMOVE BRIDGE MOUNTED SUPPORT. INSTALL GROUND MOUNTED STRUCTURE. LOCATE IN A LOCATION WHERE TREES WILL NOT BE REMOVED.



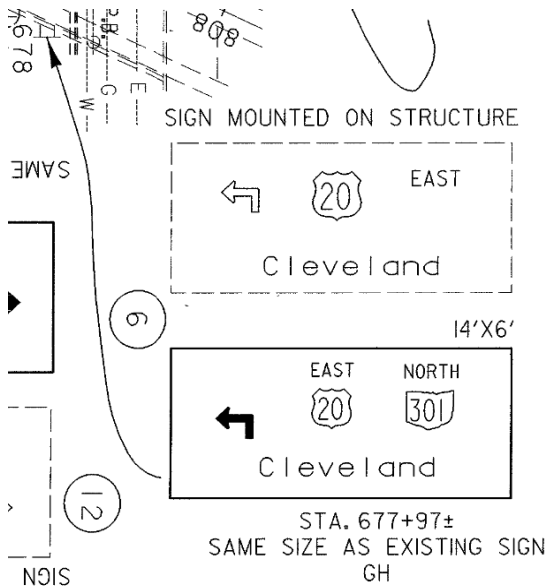
**REMOVE AND REUSE THE EXISTING SIGN.**

10	7	S.R. 2, WB	80+24, Structure Mounted	RA-1-132 N-44B-18 RA-1	132X54 18X12	49.5	1.5
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SGN0079095  
 Sign Category Directional (Guide)  
 Sign Code D5-H1-132  
 Additional Sign Text REST AREA / 1 MILE  
 Mount Position Overhead  
 Travel Direction West  
 Blank Material Extrusheet  
 Sign Width (Inches)120  
 Sign Height (Inches)84  
 Sign Area (Sq Ft)70.00

SGN0529710  
 Sign Category Other  
 Sign Code  
 Additional Sign Text 2 WB 1.52  
 Mount Position Overhead  
 Travel Direction West  
 Blank Material Flat Sheet-Aluminum  
 Sign Width (Inches)12  
 Sign Height (Inches)12  
 Sign Area (Sq Ft)1.00

LOR-20-15.298 SUP0133103  
 PLAN: 4009-LOR-20-12.59-1997  
 PLAN SHEET PAGE: 120  
 SIGN SUB-SUMMARY PAGE: 107  
 PROPOSED WORK: REMOVE BRIDGE MOUNTED SUPPORT. INSTALL GROUND MOUNTED STRUCTURE. LOCATE IN A LOCATION WHERE TREES WILL NOT BE REMOVED.

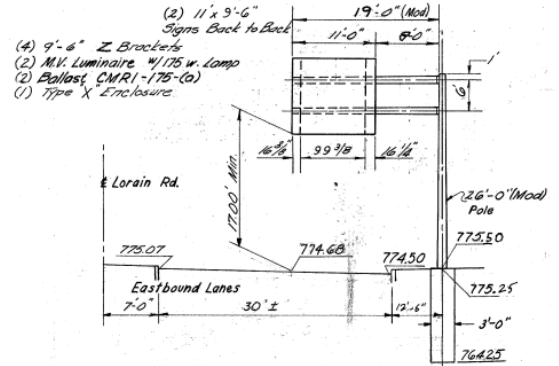
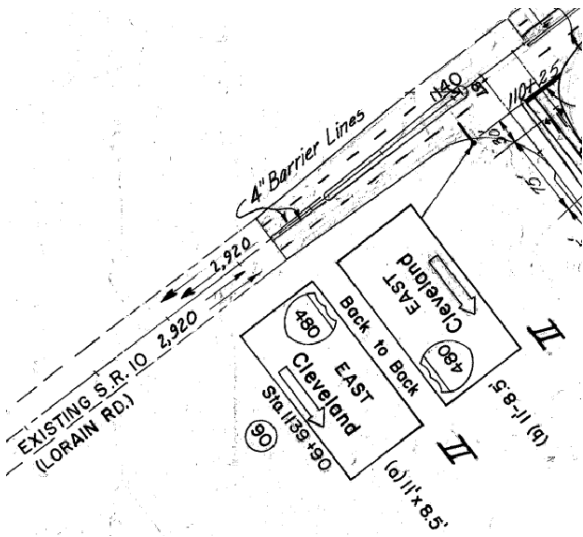


**REMOVE AND REPLACE THE EXISTING SIGN.**

36	120	6	CRAFTON	STA. 677+97± RT.	G11	168 X 72 #	84	84
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SGN0196418  
 Sign Category Miscellaneous (Guide)  
 Sign Code E1-H5P Exit Number Panel  
 Additional Sign Text EAST 20 NORTH 301  
 CLEVELAND  
 Mount Position Overhead  
 Travel Direction South  
 Blank Material Extrusheet  
 Sign Width (Inches)168  
 Sign Height (Inches)96  
 Sign Area (Sq Ft)112.00

LOR-10-0.708 SUP0045436  
 PLAN: xxxxx-LOR-480-0-1978  
 PLAN SHEET PAGE: 202  
 DETAIL SHEET PAGE: 207  
 SUB-SUMMARY SHEET PAGE: 194  
 PROPOSED WORK: REMOVE AND REPLACE SUPPORT AND FOUNDATION



90 Sta. 1139+90 Lorain Rd. E.B.  
 844 No. 12.30, Des. No. 5 Mod.  
 26'-0" Pole, 20'-0" Arms

Support No	Station	Normal Project	844												625		844		Support No
			1/4" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6	1/2" x 1/2" Des. No. 6		
85	45+00 @ I-480 E.B.																		85
85	65+25 @ I-480 W.B.																		85
87	74+75 @ I-480 W.B.																		87
70	75+10 @ I-480 E.B.																		70
88	91+00 @ I-480 E.B.																		88
90	1139+90 @ Lor. Rd. E.B.																		90
91	1143+90 @ Lor. Rd. E.B.																		91
92	1146+90 @ Lor. Rd. W.B.																		92
93	1149+85 @ Lor. Rd. W.B.																		93
71	1159+10 @ Lor. Rd. W.B.																		71
72	1164+40 @ Lor. Rd. W.B.																		72
1	87+40 @ I-480 E.B.																		1
1-A	87+40 @ I-480 E.B.																		1-A
2-A	92+40 @ I-480 E.B.																		2-A
3	8+25 @ I-480 E.B.																		3
4	38+00 @ I-480 W.B.																		4
Normal Project																			
100% State of Ohio Project Total																			

SGN0078940  
 Additional Sign Text 480 EAST CLEVELAND—  
 Mount Position Overhead  
 Travel Direction South  
 Blank Material Extrusheet  
 Sign Width (Inches) 132  
 Sign Height (Inches) 102  
 Sign Area (Sq Ft) 93.50

SGN0078940  
 Additional Sign Text 480 EAST CLEVELAND  
 Mount Position Overhead  
 Travel Direction North  
 Blank Material Extrusheet  
 Sign Width (Inches) 132  
 Sign Height (Inches) 106  
 Sign Area (Sq Ft) 97.17



NOTE: THERE IS NO SIGN INFORMATION ON THE AIRPORT SIGN AND ARROW.



REMOVE AND REUSE ALL OF THE EXISTING SIGNS.



LOR-10-6.291 SUP0045445

(CONTINUED)



SGN0083949  
Sign Category Miscellaneous (Guide)  
Sign Code E6-2  
Additional Sign Text IR 480 EAST/CLEVELAND  
Mount Position Overhead  
Travel Direction East  
Blank Material Extrusheet  
Sign Width (Inches)156  
Sign Height (Inches)96  
Sign Area (Sq Ft)104.00



SGN0486216  
Sign Category Markers (Guide)  
Sign Code M3-2 EAST  
Additional Sign Text East  
Mount Position Overhead  
Travel Direction East  
Blank Material Flat Sheet-Aluminum  
Sign Width (Inches)36  
Sign Height (Inches)18  
Sign Area (Sq Ft)4.50

SGN0486210  
Sign Category Markers (Guide)  
Sign Code M1-5-2 State Route Marker (2 digits)  
Additional Sign Text 10  
Mount Position Overhead  
Travel Direction East  
Blank Material Flat Sheet-Aluminum  
Sign Width (Inches)36  
Sign Height (Inches)36  
Sign Area (Sq Ft)9.00



SGN0083349  
Sign Category Directional (Guide)  
Sign Code D3-H4 Advance Road Name  
Additional Sign Text STEARNS ROAD/1 1/2 MILES  
Mount Position Overhead  
Travel Direction East  
Blank Material Extrusheet  
Sign Width (Inches)196  
Sign Height (Inches)84  
Sign Area (Sq Ft)114.33



**REMOVE AND REUSE ALL OF THE EXISTING SIGNS.**

SGN0082577  
Sign Category Miscellaneous (Guide)  
Sign Code E1-H5P Exit Number Panel  
Additional Sign Text EXIT 3  
Mount Position Overhead  
Travel Direction East  
Blank Material Extrusheet  
Sign Width (Inches)72  
Sign Height (Inches)24  
Sign Area (Sq Ft)12.00



SGN0486211  
Sign Category Warning  
Sign Code W13-7 Combination Horizontal  
Alignment Advisory Ramp Speed  
Additional Sign Text Exit 30 mph  
Mount Position Overhead  
Travel Direction East  
Blank Material Flat Sheet-Aluminum  
Sign Width (Inches)36  
Sign Height (Inches)60  
Sign Area (Sq Ft)15.00



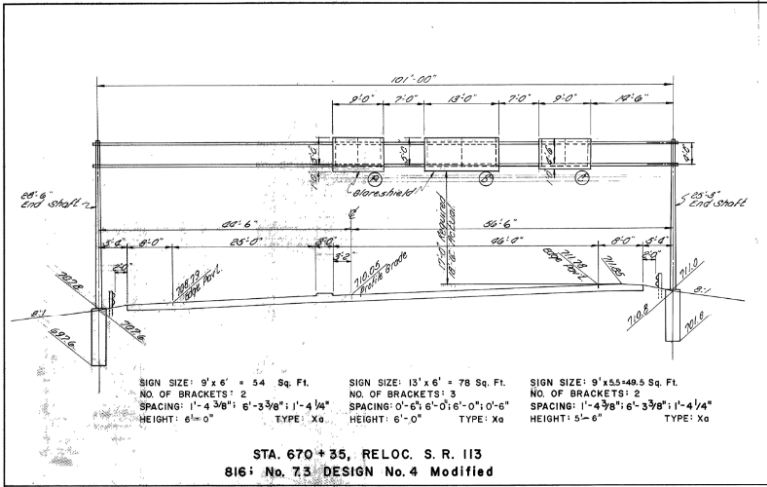
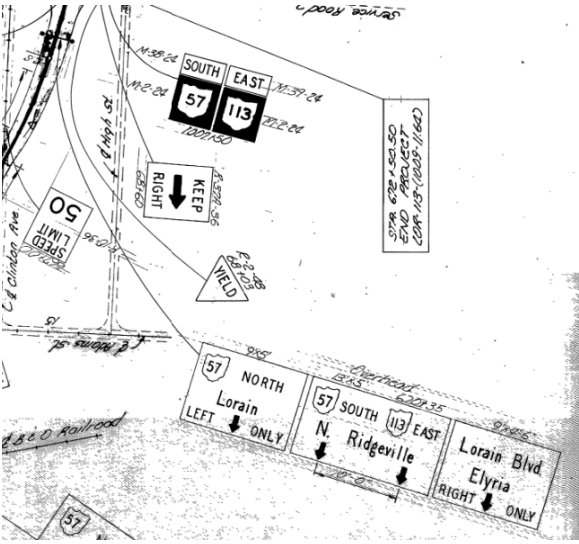
SGN0084306  
Sign Category Miscellaneous (Guide)  
Sign Code E1-H5P Exit Number Panel  
Additional Sign Text EXIT 2  
Mount Position Overhead  
Travel Direction East  
Blank Material Extrusheet  
Sign Width (Inches)72  
Sign Height (Inches)24  
Sign Area (Sq Ft)12.00

SGN0082930  
Sign Category Miscellaneous (Guide)  
Sign Code  
Additional Sign Text Lorain Rd 017  
Mount Position Overhead  
Travel Direction East  
Blank Material Extrusheet  
Sign Width (Inches)252  
Sign Height (Inches)120  
Sign Area (Sq Ft)210.00





LOR-113-12.642 SUP0049814  
 PLAN: 43(69)\_LOR-113-10.09-11.69  
 PLAN SHEET PAGE: 170  
 DETAIL SHEET PAGE: 172  
 STANDARD DETAIL SHEET PAGE: 175  
 PROPOSED WORK: REMOVE AND REPLACE SUPPORT AND FOUNDATION



**REMOVE AND REUSE ALL OF THE EXISTING SIGNS.**



SGN0084007  
 Sign Category Miscellaneous (Guide)  
 Sign Code  
 Additional Sign Text SR 57 NORTH/LORAIN/LEFT V ONLY  
 Mount Position Overhead  
 Travel Direction East  
 Blank Material Extrusheet  
 Sign Width (Inches)108  
 Sign Height (Inches)78  
 Sign Area (Sq Ft)58.50



SGN0486191  
 Sign Category Miscellaneous (Guide)  
 Sign Code E11-1d EXIT (arrow) ONLY  
 Additional Sign Text Exit ↓ Only  
 Mount Position Overhead  
 Travel Direction East  
 Blank Material Extrusheet



SGN0084468  
 Sign Category Miscellaneous (Guide)  
 Sign Code  
 Additional Sign Text LORAIN BLVD/ELYRIA/RIGHT V ONLY  
 Mount Position Overhead  
 Travel Direction East  
 Blank Material Extrusheet  
 Sign Width (Inches)120  
 Sign Height (Inches)66  
 Sign Area (Sq Ft)55.00

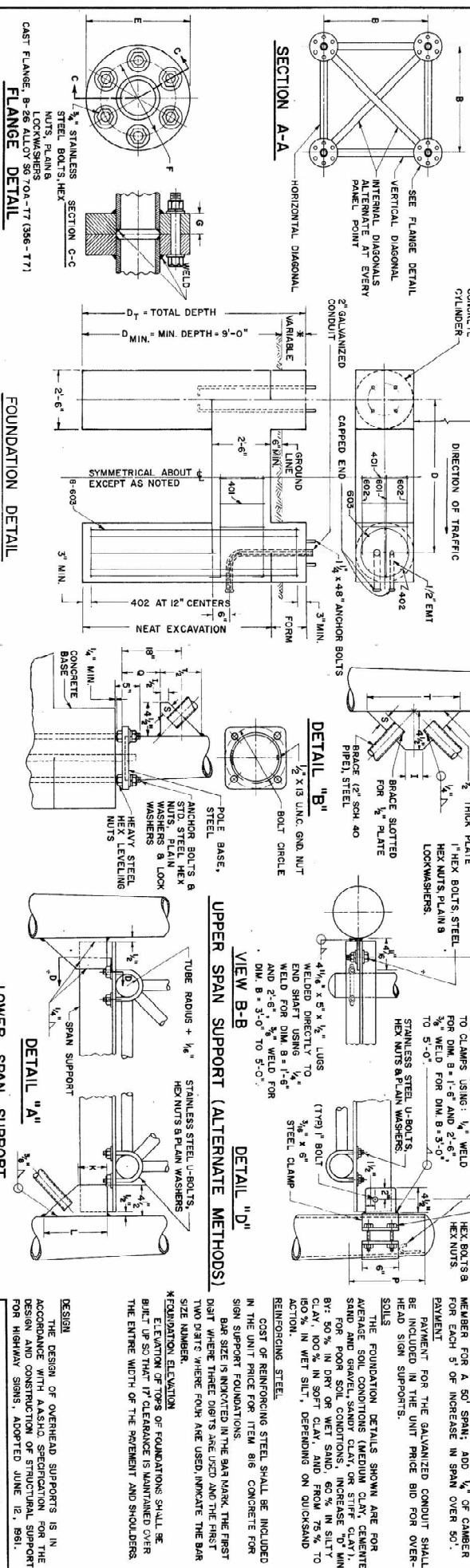
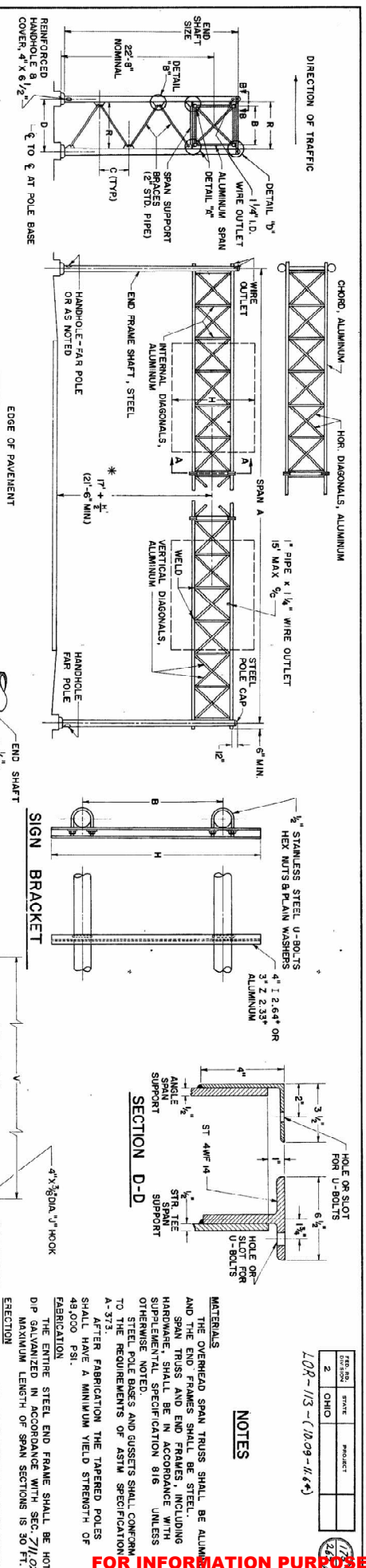


SGN0486190  
 Sign Category Miscellaneous (Guide)  
 Sign Code E11-1d EXIT (arrow) ONLY  
 Additional Sign Text Exit ↓ Only  
 Mount Position Overhead  
 Travel Direction East  
 Blank Material Extrusheet

**REMOVE AND REUSE ALL OF THE EXISTING SIGNS.**



SGN0083088  
 Sign Category Miscellaneous (Guide)  
 Sign Code E6-2  
 Additional Sign Text SR 57 SOUTH  
 SR 113 EAST/N.RIDGEVILLE/V V  
 Mount Position Overhead  
 Travel Direction East  
 Blank Material Extrusheet  
 Sign Width (Inches)144  
 Sign Height (Inches)78  
 Sign Area (Sq Ft)78.00



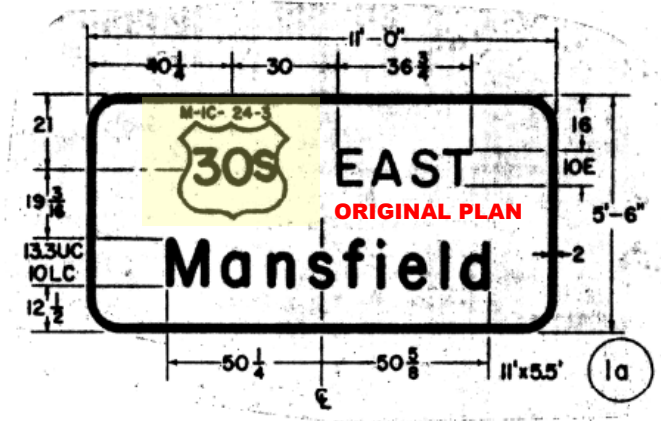
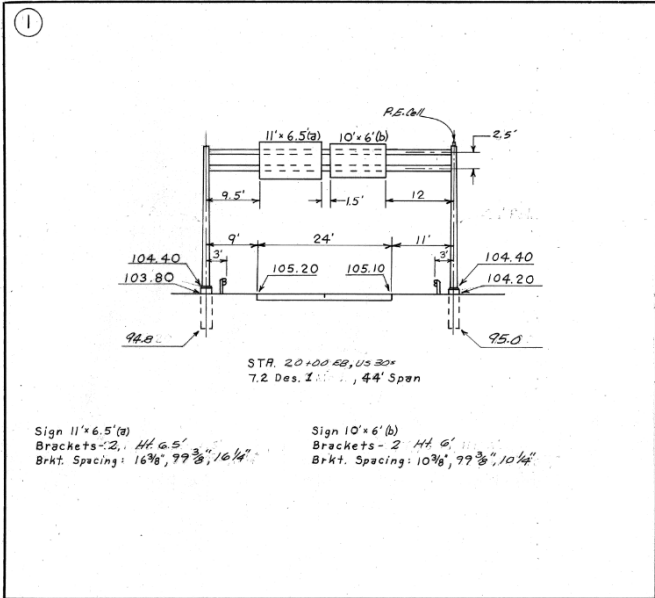
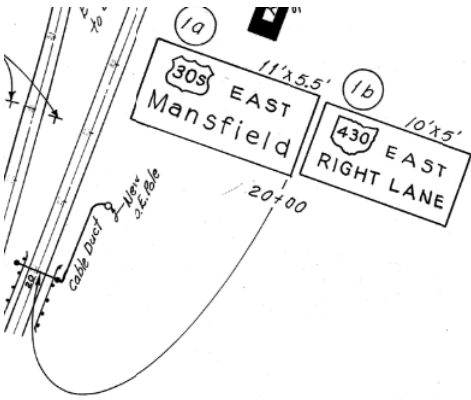
DESIGN NO.	SPAN A	B	C	D	E	END SHAF	BRACE LENGTH	F	G	I	K	L	P	Q	R	S	T	U	V	BOLT CIRCLE	SPAN SUPPORT	CHORDS	NON-CENTRAL DIAGONAL	VERTICAL DIAGONAL	REINFORCEMENT SCHEDULE
1	50' thru 65'	3'-0"	4'-11 1/2"	4'-6"	7'	8' x 4.5" x 25'-0" 36A	5'-10 1/2"	5 1/2"	1 1/4"	3 1/2"	4 3/4"	8"	12"	6 5/8"	5 3/4"	1 1/2"	10"	5"	3'-3 3/8"	11"	SPLIT TEE 3'-8"	3 1/2" x 1.88"	1.660" x 1.40"	1.660" x 1.40"	401 12 @ C
2	56' thru 80'	3'-0"	4'-11 1/2"	4'-6"	9 1/2"	8' x 4.5" x 25'-0" 36A	5'-10 1/2"	7 1/2"	1 3/8"	3 1/2"	4 3/4"	8"	12"	6 5/8"	5 3/4"	1 1/2"	10"	5"	3'-3 3/8"	11"	SPLIT TEE 3'-8"	4 1/2" x 1.88"	1.900" x 1.45"	1.660" x 1.40"	402 12 @ C
3	61' thru 90'	4'-0"	4'-10 1/2"	5'-7"	9 1/4"	8' x 6.25" x 25'-0" 36A	6'-7 1/8"	7 1/2"	1 3/8"	3 1/2"	4 3/4"	8"	12"	6 5/8"	5 3/4"	1 1/2"	10"	5"	4'-0 5/8"	11"	SPLIT TEE 4'-10"	4 1/2" x 1.88"	1.900" x 1.45"	1.900" x 1.45"	601 4
4	91' thru 105'	4'-0"	4'-10 1/2"	5'-7"	9 1/4"	8' x 6.25" x 25'-0" 36A	6'-7 1/8"	7 1/2"	1 3/8"	3 1/2"	4 3/4"	8"	12"	6 5/8"	5 3/4"	1 1/2"	10"	5"	4'-0 5/8"	11"	SPLIT TEE 4'-10"	4 1/2" x 1.88"	2" x 1.88"	1.900" x 1.45"	602 4

300 SQ. FT. SIGN AREA  
 OVERHEAD SIGN SUPPORT, 816 NO. 7.3

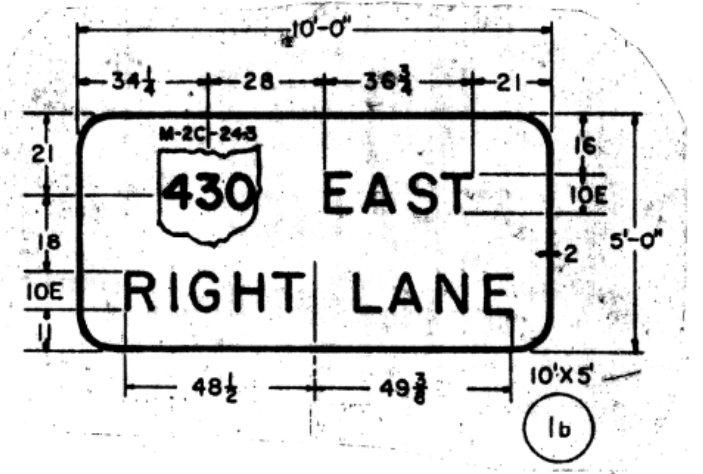
OHIO DEPARTMENT OF HIGHWAYS  
 BUREAU OF TRAFFIC  
 APPROVED: [Signature]  
 ENGINEER OF TRAFFIC  
 DATE: 7-25-52  
 5-5-54  
 1-24-49  
 816  
 No. 7.3

NOTES  
 1. THE OVERHEAD SPAN TRUSS SHALL BE ALUMINUM AND THE END FRAMES SHALL BE STEEL.  
 2. SPAN TRUSS AND END FRAMES INCLUDING HARDWARE SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 816 UNLESS OTHERWISE NOTED.  
 3. STEEL POLE BASES AND GUSSETS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-373.  
 4. AFTER FABRICATION THE TAPERED POLES SHALL HAVE A MINIMUM YIELD STRENGTH OF 45,000 PSI.  
 5. THE ENTIRE STEEL END FRAME SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SEC. 711.02 MAXIMUM LENGTH OF SPAN SECTIONS IS 50 FT.  
 6. ERECTION  
 7. USE A MINIMUM OF 1" CAMBER IN SPAN TRUSS MEMBER FOR A 50' SPAN; ADD 1/4" OF CAMBER FOR EACH 5' OF INCREASE IN SPAN OVER 50'.  
 8. PAYMENT FOR THE GALVANIZED CONDUIT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS.  
 9. THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND, OR GRAVEL SANDY CLAY, OR SILTY CLAY).  
 10. FOR POOR SOIL CONDITIONS (WEAK SAND, CLAY, OR SILTY CLAY, OR SILTY CLAY, OR FROM 75% TO 100% IN WET SILT, DEPENDING ON QUICKSAND REINFORCING STEEL.  
 11. COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS.  
 12. BAR SIZE IS INDICATED IN THE BAR MARK, THE FIRST DIGIT WHERE THREE DIGITS ARE USED AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER.  
 13. FOUNDATION ELEVATION  
 14. ELEVATION OF TOPS OF FOUNDATIONS SHALL BE BUILT UP SO THAT 17" CLEARANCE IS MAINTAINED OVER THE ENTIRE WIDTH OF THE PAVEMENT AND SHOULDERS.

RIC-309-6.158 SUP0064914  
 PLAN: ARCHIVED 03-219R RIC-030-0.00 (1968)  
 PLAN SHEET PAGE: 11  
 DETAIL SHEET PAGE: 49  
 STANDARD DETAIL SHEET PAGE: 40  
 SIGN DETAIL SHEET PAGE: 103  
 SUB-SUMMARY SHEET PAGE: 37-38  
 PROPOSED WORK: BOX TRUSS - REMOVE EXISTING SUPPORT, FOUNDATIONS, AND SIGNS. GUARDRAIL AND CONCRETE WALL TO BE REMOVED AS APPLICABLE. INSTALL GROUND MOUNTED SIGNS. SR 309 IN THE MEDIAN AND SR 430 ON THE SOUTH SIDE OF THE ROADWAY.



**REMOVE THE EXISTING SIGNS.**

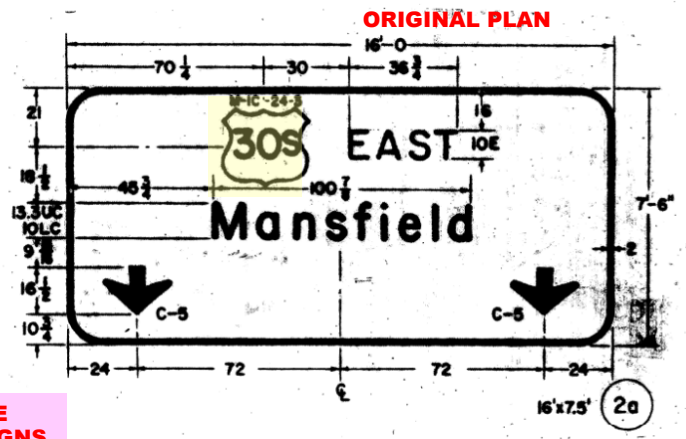
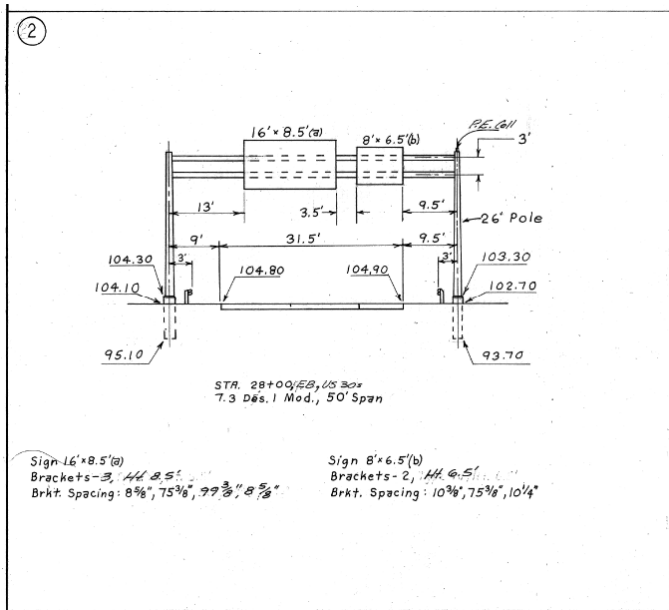
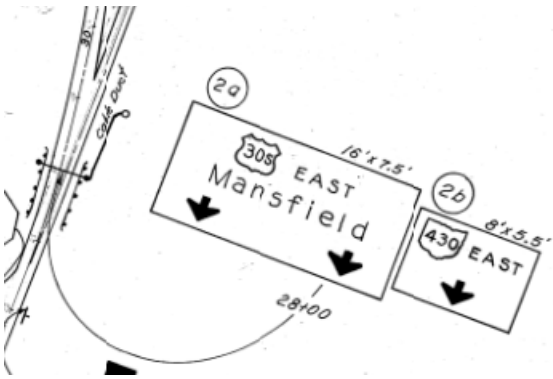


SGN0104071  
 Sign Category Miscellaneous (Guide)  
 Sign Code Other  
 Additional Sign Text (E1-H1)309 EAST / MANSFIELD  
 Mount Position Overhead  
 Travel Direction East  
 Blank Material Extrusheet  
 Sign Width (Inches)132  
 Sign Height (Inches)84  
 Sign Area (Sq Ft)77.00

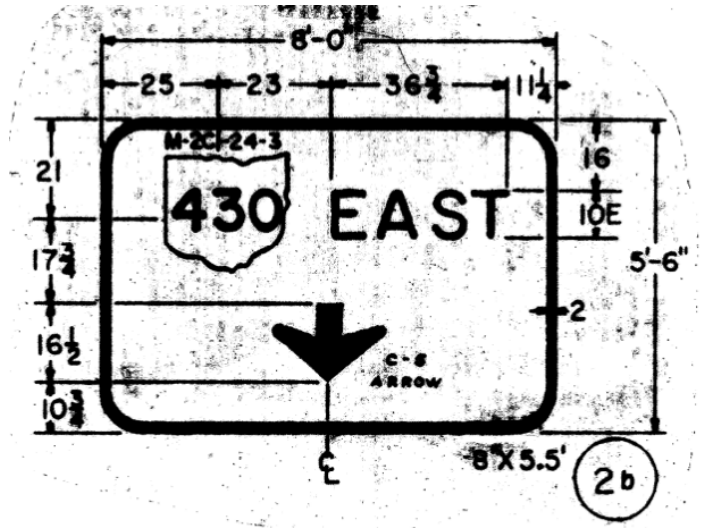




RIC-309-6.325 SUP0064838  
 PLAN: ARCHIVED 03-219R RIC-030-0.00 (1968)  
 PLAN SHEET PAGE: 11  
 DETAIL SHEET PAGE: 49  
 STANDARD DETAIL SHEET PAGE: 41  
 SIGN DETAIL SHEET PAGE: 103  
 SUB-SUMMARY SHEET PAGE: 37-38  
 PROPOSED WORK: BOX TRUSS - REMOVE EXISTING SUPPORT, FOUNDATIONS, AND SIGNS. GUARDRAIL AND CONCRETE WALL TO BE REMOVED AS APPLICABLE. INSTALL GROUND MOUNTED SIGNS. SR 309 IN THE MEDIAN AND SR 430 ON THE SOUTH SIDE OF THE ROADWAY.



**REMOVE THE EXISTING SIGNS.**



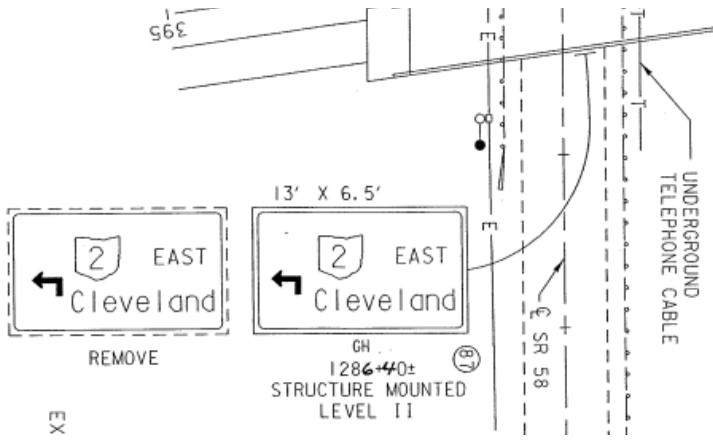
SGN0104750  
 Sign Category Miscellaneous (Guide)  
 Sign Code E6-2  
 Additional Sign Text 309 EAST / MANSFIELD ↓ ↓  
 Mount Position Overhead  
 Travel Direction East  
 Blank Material Extrusheet  
 Sign Width (Inches) 192  
 Sign Height (Inches) 108  
 Sign Area (Sq Ft) 144.00



SGN0105446  
Sign Category Miscellaneous (Guide)  
Sign Code Other  
Additional Sign Text 430 EAST ↓ (E6-2)  
Mount Position Overhead  
Travel Direction East  
Blank Material Extrusheet  
Sign Width (Inches)120  
Sign Height (Inches)84  
Sign Area (Sq Ft)70.00

**REMOVE THE  
EXISTING SIGNS.**

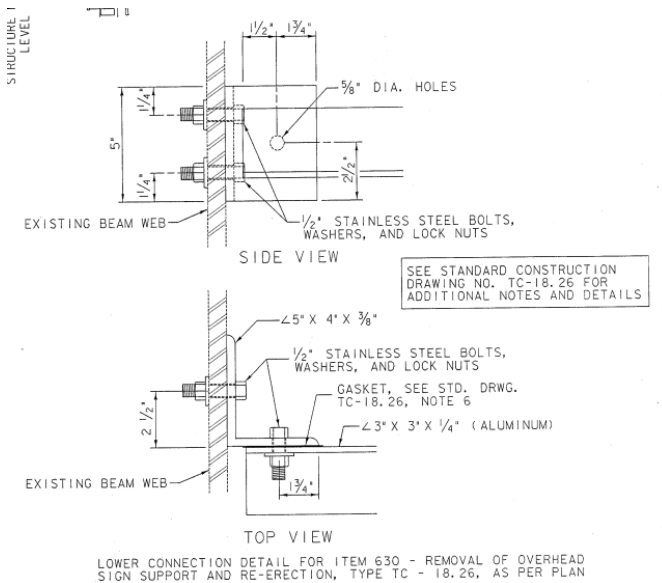




LOR-2-7.438 SUP0052039  
 PLAN: 7106-LOR-2-3.5-1994.pdf  
 PLAN SHEET PAGE: 101  
 DETAIL SHEET PAGE: 101  
 QUANTITY TAKEOFF SHEET PAGE: 94  
 PROPOSED WORK: REMOVE BRIDGE MOUNTED SUPPORT AND REPLACE WITH BRIDGE MOUNTED SUPPORT.

THE INTENT IS TO INSTALL A BRIDGE MOUNTED SUPPORT STRUCTURE THAT IS MOUNTED AS ORIGINALLY SHOWN IN THE PLANS.

DETAIL ON SHEET 101 REFERENCE TC-18.26 (NEXT 2 PAGES) THE DETAIL WAS RETIRED. ARCHIVE VERSION ATTACHED.



LOWER CONNECTION DETAIL FOR ITEM 630 - REMOVAL OF OVERHEAD SIGN SUPPORT AND RE-ERECTION, TYPE TC - 18.26, AS PER PLAN

87	SR 58	1286+40 LT, SB	GH	156X90*	97.5	97.5
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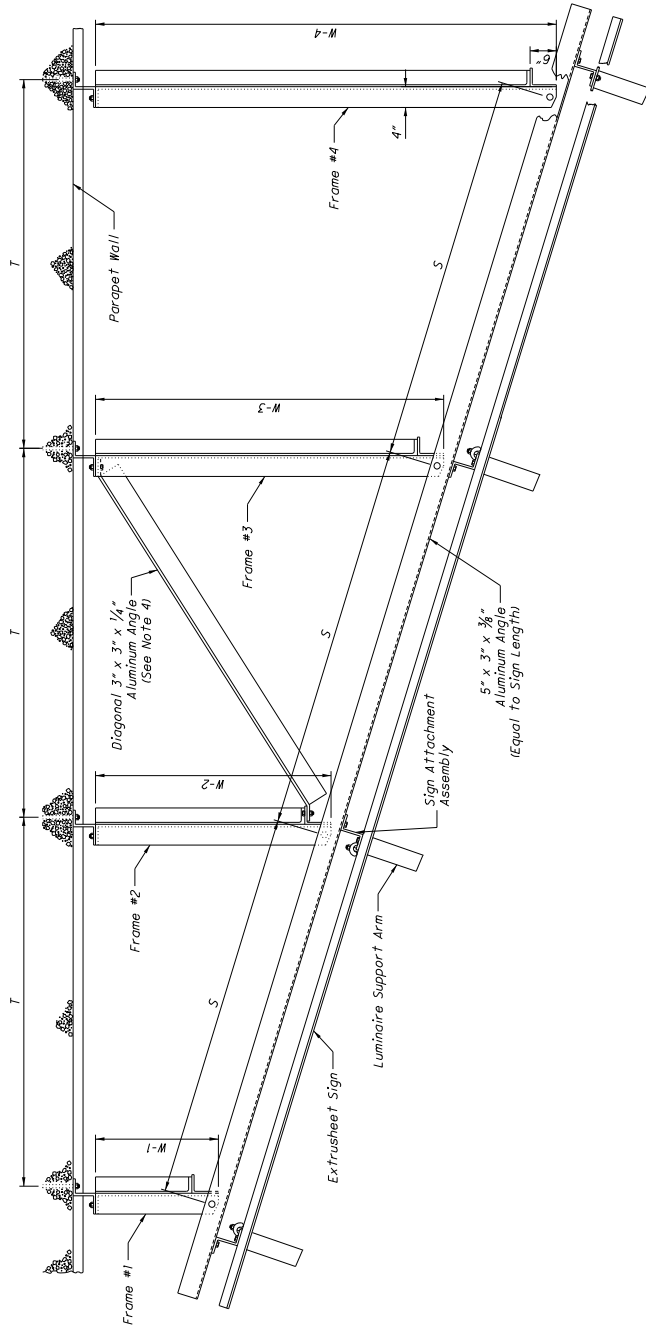


**REMOVE AND REPLACE THE EXISTING SIGN.**

SGN0530522  
 Sign Category Regulatory  
 Sign Code  
 Additional Sign Text SR-2 EAST Cleveland  
 Mount Position Overhead  
 Travel Direction South  
 Blank Material Extrusheet  
 Sign Width (Inches)168  
 Sign Height (Inches)90  
 Sign Area (Sq Ft)105.00

**NOTES:**

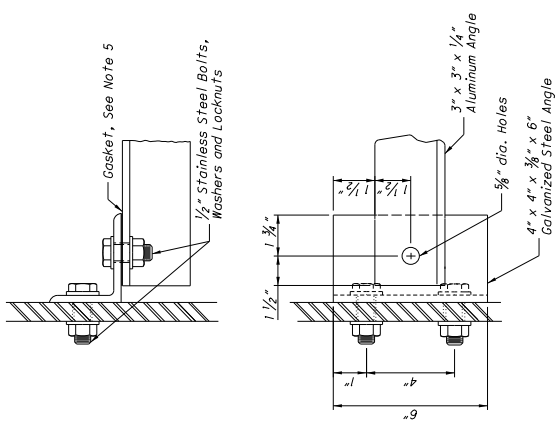
1. This support is intended for use with concrete bridge railing parapet types shown on Standard Construction Drawings (SCDs) BR-1, BR-2-98, and SBR-1-99.
2. On pre-cast concrete beam bridges, attach the angle to the beam with two 1/2" expansion double anchors in the beam. The bases of the expansion anchors in prestressed beams shall be approved by the Engineer prior to any field drilling.
3. For sign attachment assemblies to be furnished with this support, see SCD TC-22.20.
4. Only two 3" x 3" x 1/4" min. angle size horizontal diagonal braces are required per sign. Attach braces to the center bolt on Z-Bar "A" and the bottom bolt of Z-Bar "B". Bolt the other ends of the braces at the corresponding elevation on the front frame member.
5. All hardware, including expansion bolts, shall be stainless steel.
6. Diagonal bracing shall be 3" x 3" x 1/4" minimum angle for all frames.
7. Prevent contact between aluminum and galvanized parts with a minimum 1/16" thick chloroprene gasket or approved equal. Also install a gasket between galvanized steel and concrete.
8. Install all frames at the same elevation by adjusting their position on Z-Bar "A" and "B", regardless of bridge slope.
9. Bolt all diagonals with one 1/2" stainless steel bolt with washers and locknuts or weld 1/4" fillet weld, minimum 4" long at each end.
10. On slab bridges or with signs 6' or less in height, mount Z-Bar "B" as low as possible on the face of the concrete.
11. For bridge clearance above roadway of less than 17', the clearance above bottom of bridge shall be 3' minimum without, or 15' minimum with, sign lighting fixtures.
12. The outer flange of the sign attachment assembly aluminum zee brackets may be oriented in either direction. However, at least one zee bracket per each individual sign shall be oriented with the outer flange in the opposite direction of the others.
13. Parapet design may vary.



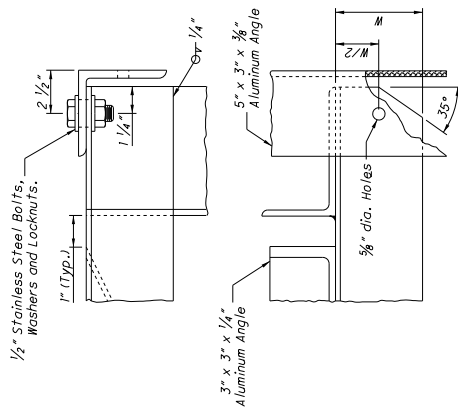
DESIGN NO.	NO. OF FRAMES	FRAME WIDTH				#1	FRAME MEMBER SIZE			S	T	SKEW	SIGN LENGTH	DESIGN NO.
		W-1	W-2	W-3	W-4		#2	#3	#4					
1	2	3'-1/2"				3" x 3" x 1/4"			4'-0"	3'-10 3/8"	15°	4'-To 6'	1	
2	2					3" x 3" x 1/4"			6'-0"	6'-0"		7'-To 12'	2	
3	3	3'-6 3/8"				4" x 4" x 1/4"			2 @ 6'-0"	5'-9 1/2"		13'-To 19'	3	
4	4		5'-1 1/4"			6" x 4" x 3/8"			3 @ 6'-0"	5'-9 1/2"		20'-To 25'	4	
5	2	3'-7 1/8"				4" x 4" x 1/4"			6'-0"	3'-7 1/8"		4'-To 6'	5	
6	2	4'-5 1/4"				3" x 3" x 1/4"			2 @ 6'-0"	5'-5 3/4"		7'-To 12'	6	
7	3	4'-3 1/2"				4" x 4" x 1/4"			4'-0"	3'-3 1/8"		13'-To 15'	7	
8	2	5'-5 3/8"				6" x 4" x 3/8"			6'-0"	4'-11"		4'-To 6'	8	
9	2	6'-7 1/8"				6" x 4" x 3/8"			8'-0"	6'-6 3/8"		7'-To 11'	9	
10	2											12'-To 15'	10	

THIS DRAWING REPLACES TC-18-26 DATED 10-18-2013.

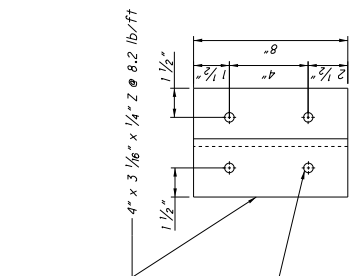
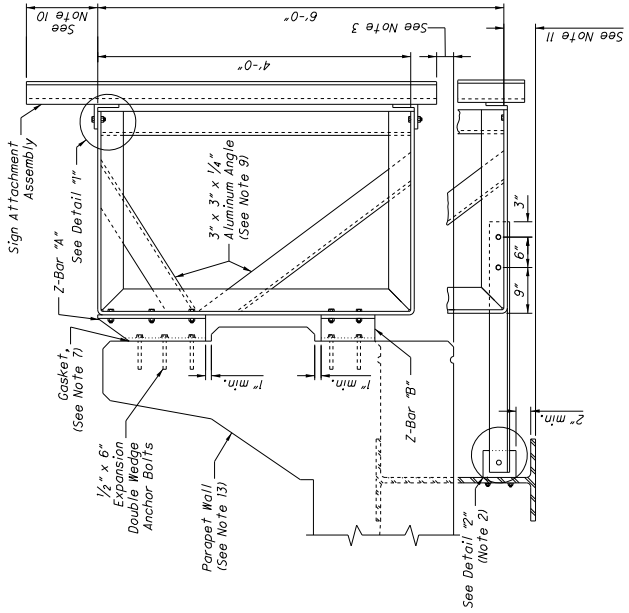
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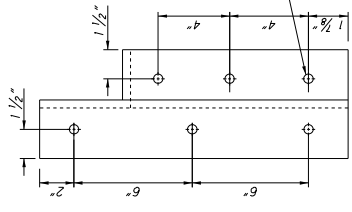
DETAIL "2"



DETAIL "1"



Z-BAR "B"  
(GALVANIZED STEEL)



Z-BAR "A"  
(GALVANIZED STEEL)

