

LOCATION MAP

LATITUDE: 41°26'11" LONGITUDE 81°3'5"

DESIGNER	
JRS	
REVIEWER	
SEH 4/22/2026	
PROJECT ID	
RS-MID-V-2026	
SHEET	TOTAL
P.3	29

UTILITIES

THE CONTRACTOR SHALL CONTACT OHIO811 A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCING ANY WORK. CALL 8-1-1 OR (800) 362-2764 OR GO TO [HTTPS://OUPS.ORG/](https://oups.org/). THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER, OR ADJACENT TO, THE WORK AREA. LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC:	GAS:	GAS:	GAS:
ILLUMINATING COMPANY 7755 AUBURN ROAD CONCORD, OH 44077 (440) 358-4944	ENBRIDGE GAS OHIO 320 SPRINGSIDE DR SUITE 320 AKRON, OHIO 44333 (330) 664-2409	NORTHERN INDUSTRIAL ENERGY DEVELOPMENT 9010 TYLER BOULEVARD MENTOR, OH 44060 PHONE: (440) 255-1945	NORTHEAST OHIO NATURAL GAS 5640 LANCASTER-NEWARK RD NE PLEASANTVILLE, OH 43148 PHONE: (880) 237-2099

CABLE:
KINETIC (FORMERLY WINDSTREAM)
205 S. HAMB DEN STREET
CHARDON, OH 44024
PHONE: (440) 285-5474

WHEN ANY WORK IS BEING PERFORMED OR CONSTRUCTION TRAFFIC IS ON ADAMS ROAD SECTION B THE CONTRACTOR SHALL CONTACT NORTHERN INDUSTRIAL ENERGY DEVELOPMENT AND RECEIVE APPROVAL PRIOR TO. NORTHERN INDUSTRIAL ENERGY DEVELOPMENT REQUIRES A REPRESENTATIVE TO BE ON SITE AT ALL TIMES.

LOCAL OFFICIALS

THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT, POLICE AND OTHER APPROPRIATE AGENCIES THAT MAY REQUIRE THE USE OF THE ROAD DURING EMERGENCY SITUATIONS. IF ANY AREA BECOMES INACCESSIBLE AT ANY TIME, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE AGENCIES OF THESE LOCATIONS. THE CONTRACTOR SHALL SCHEDULE HIS WORK AND COORDINATE WITH LOCAL SCHOOLS AS LISTED BELOW TO ACCOMMODATE THE PICK-UP AND DELIVERY OF SCHOOL STUDENTS IF APPLICABLE.

GEAUGA COUNTY SHERIFF 12450 MERRITT ROAD CHARDON, OH 44024 (440) 279-2009	STATE HIGHWAY PATROL 530 CENTER STREET CHARDON, OH 44024 (440) 286-6612	GEAUGA TRANSIT 12555 MERRITT ROAD CHARDON, OH 44024 (440) 279-2150
--	--	---

THE METZENBAUM CENTER 8200 CEDAR ROAD CHESTERLAND, OH 44026 (440) 729-9406	USPS - MIDDLEFIELD 15993 E HIGH ST MIDDLEFIELD, OH 44062-9800 (440) 632-0192	CARDINAL LSD 14785 THOMPSON AVENUE MIDDLEFIELD, OH 44062 (440) 632-0261
---	---	--

MIDDLEFIELD ROAD DEPT. 15228 MADISON RD MIDDLEFIELD, OH 44062 (440) 632-5095	MIDDLEFIELD FIRE DEPT. 14860 N. STATE AVENUE MIDDLEFIELD OH, 44062 (440) 632-1907	MIDDLEFIELD POLICE DEPT. 14860 N. STATE AVENUE MIDDLEFIELD OH, 44062 (440) 632-3538
---	--	--

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE CONTRACTORS MONTHLY INVOICES.

PRECONSTRUCTION MEETING

A PRE-CONSTRUCTION CONFERENCE WILL BE SCHEDULED BY THE ENGINEER WITH THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE OF OPERATIONS FOR APPROVAL 24 HOURS PRIOR TO THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST SEVEN (7) DAYS IN ADVANCE OF THE BEGINNING OF CONSTRUCTION, SO THE ENGINEER MAY SCHEDULE THE INSPECTION.

GENERAL NOTES

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	P.5
TOTAL	29

SEQUENCE OF CONSTRUCTION

UNLESS APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND PROSECUTE THE WORK IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION:

1. PRE-CONSTRUCTION MEETING
2. TRAFFIC MAINTENANCE INSTALL / MOBILIZATION
3. PAVEMENT REPAIRS
4. INTERMEDIATE ASPHALT COURSE
5. GUARDRAIL
6. DRIVEWAYS
7. CHIP SEAL WITH 67 (DELAY 30 DAYS AFTER THE COMPLETION OF INTERMEDIATE ASPHALT COURSE)
8. CHIP SEAL WITH 8
9. COMPACTED AGGREGATE BERM
10. MAILBOX ADJUSTMENT
11. SEAL JOINTS
12. PERMANENT PAVEMENT MARKINGS
13. INCIDENTALS / PUNCH LIST

ITEM 202 - WEARING COURSE REMOVED, AS PER PLAN

BUTT JOINTS, PER ODOT SCD BP-3.1, SHALL BE REQUIRED AT THE LOCATIONS LISTED BELOW. THE EXACT LOCATIONS OF ALL BUTT JOINTS WILL BE MARKED IN THE FIELD BY THE ENGINEER. THE EXISTING PAVEMENT SHALL BE GROUND TRANSVERSELY, USING A SELF-PROPELLED GRINDER AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL REMOVE ALL GRINDINGS FROM THE JOB SITE AND THOROUGHLY SWEEP THE ROADWAY BEFORE OPENING IT UP TO TRAFFIC.

ADAMS ROAD AT OLD STATE ROAD	70 SY
BRIDGE ROAD AT ADAMS ROAD	68 SY
ADAMS ROAD AT SR 528	78 SY
SWINE CREEK WEST OF ADAMS ROAD	38 SY
SWINE CREEK WEST OF BRIDGE GEA-T0119-1.01	31 SY

ITEM 202 - GUARDRAIL REMOVED

THIS WORK SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE REMOVAL OF EXISTING GUARDRAIL, POSTS, ANCHOR ASSEMBLIES, TERMINAL ASSEMBLIES AND FOUNDATIONS, AND ALL APPURTENANCES. EXISTING POST HOLES SHALL BE FILLED AND COMPACTED WITH SUITABLE MATERIAL.

ITEM 202 - PAVEMENT REMOVED (DRIVEWAYS)

THE CONTRACTOR SHALL REMOVE PAVEMENT AT ASPHALT AND CONCRETE DRIVEWAYS MARKED BY THE ENGINEER. A FULL-DEPTH DOUBLE SAW-CUT SHALL BE MADE AT THE REMOVAL LIMITS. CARE SHALL BE TAKEN TO NOT DAMAGE ADJACENT PAVEMENT. THE TRENCH LEFT BY THE REMOVAL OPERATION SHALL BE TEMPORARILY FILLED WITH SUITABLE MATERIAL IN ORDER TO MAINTAIN ACCESS. PAVEMENT REMOVAL LIMITS WILL BE CLEARLY MARKED BY THE ENGINEER.

THE COST TO SAWCUT, REMOVE ASPHALT AND SUBGRADE MATERIALS TO THE PROPER DEPTH, REMOVE WASTE MATERIALS, SUBGRADE COMPACTION, TEMPORARY MATERIALS FOR ACCESS RAMPS AND MAINTENANCE SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM. INSTALL ACCESS RAMPS AT THE TIME OF THE REMOVAL OF THE ASPHALT.

GENERAL NOTES

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.6	29

ITEM 253 - PAVEMENT REPAIR

THIS ITEM SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIAL NECESSARY TO REMOVE AND REPLACE THE EXISTING ASPHALT PAVEMENT AND BASE, AS MARKED BY THE ENGINEER. THE ASPHALT PAVEMENT AND BASE IN THE REPAIR AREAS SHALL BE REMOVED BY THE GRINDING OR SAW CUTTING METHODS WITHOUT DISPLACING OR DAMAGING THE REMAINING PAVEMENT. THE EXCAVATED TRENCH SHALL BE COMPACTED UTILIZING APPROVED COMPACTION EQUIPMENT. ALL FACES ADJOINING THE EXISTING PAVEMENT SHALL BE CLEANED AND THOROUGHLY COATED WITH AN APPROVED LIQUID ASPHALT MATERIAL. THE CONTRACTOR SHALL USE ITEM 301 ASPHALT CONCRETE BASE TO REPLACE THE EXCAVATED MATERIAL. THE COST OF THE MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM. THE WORK ZONE SHALL FOLLOW THE SPECIFICATIONS SET FORTH IN ODOT SCD MT-97.12 WITH CONES TO SEPARATE TRAFFIC FROM THE PAVEMENT REPAIR TRENCHES. CONES SHALL BE PLACED ALONG THE ENTIRE LENGTH OF THE WORK ZONE, NOT AT ISOLATED REPAIR LOCATIONS.

GENERAL NOTES

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.7	29

SWNE CREEK ROAD (TR-0119)

#	Lane	Start	Width	Stop	Length	Depth	CY
47	L	46+30	4	46+59	29	4"	1.4
48	R	47+50	4	48+75	125	4"	6.2
49	C	48+60	4	48+85	25	4"	1.2
50	R	49+95	4	50+10	15	4"	0.7
51	R	50+55	4	50+65	10	4"	0.5
52	R	51+05	4	51+25	20	4"	1.0
53	R	51+40	4	51+50	10	4"	0.5
54	R	52+00	4	52+45	45	4"	2.2
55	R	52+45	6	52+60	15	4"	1.1
56	R	52+60	4	52+90	30	4"	1.5
57	L	52+70	7	53+15	45	4"	3.9
BRIDGE BR-0119-1.01							
TOTAL:							157.9

GENERAL NOTES

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.9	29

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E SHALL CONSIST OF FURNISHING ANY OF THE MGS TYPE E GUARDRAIL END TERMINALS AS LISTED ON ODOT'S OFFICE OF ROADWAY ENGINEERING'S WEB PAGE UNDER ROADWAY SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. THE FACE OF THE MGS TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER C&MS 730.19. IT SHALL BE STRIPED IN THE SAME MANNER AS TYPE 3 OBJECT MARKERS. REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4" ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AT AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT FROM THE EDGE OF THE SHOULDER. ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4" ABOVE THE GROUND LINE. ON SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4" ABOVE THE GROUND LINE.

PAYMENT FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT, AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE T

THE TYPE T ANCHOR ASSEMBLIES ARE TO BE CONSTRUCTED AS PER ODOT SCD MGS-4.2 AND SHALL BE USED TO TERMINATE A GUARDRAIL RUN AT DRIVEWAYS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

ITEM 617 - COMPACTED AGGREGATE (RAP)

THE CONTRACTOR SHALL PLACE THE STABILIZED SHOULDER BACK UP MATERIAL AS SHOWN IN THE TYPICAL SECTION. THE MATERIAL PLACEMENT SHALL NOT TAKE PLACE WITHIN A TWENTY-FOUR-HOUR (24HR) PERIOD OF TIME, BUT NOT MORE THAN SEVENTY-TWO HOURS (72HRS), AFTER THE PLACEMENT OF THE SURFACE COURSE. THE ROADWAY SHALL BE SWEEPED AFTER THE PLACEMENT OF MATERIAL AND PRIOR TO COMPACTION. THE CONTRACTOR SHALL USE TWO ROLLERS TO COMPACT THE SHOULDER MATERIAL. SEAL ASPHALT JOINTS AT DRIVEWAY AND INTERSECTION APRONS AFTER COMPLETING THIS ITEM.

THE CONTRACTOR SHALL WIDEN THE STABILIZED SHOULDER AT MAILBOX LOCATIONS, AS DIRECTED BY THE ENGINEER, TO PROVIDE FOR SAFE APPROACHES FOR MAIL DELIVERY VEHICLES. THE CONTRACTOR SHALL EXTEND SHOULDER MATERIAL INTO AND ALONG DRIVEWAY APPROACHES TO SERVE AS A SHOULDER TO THE DRIVE APRON. THE DRIVEWAY BACKUP SHALL EXTEND TO THE DRIVE PIPE ALIGNMENT, DITCH LINE, END OF NEW DRIVE APRON OR AS DIRECTED BY THE ENGINEER. FOR EXISTING GRAVEL DRIVEWAYS, THIS ITEM SHALL ALSO SERVE AS THE TRANSITION FROM THE NEW APRON TO THE EXISTING GRAVEL DRIVE.

ITEM 626 - BARRIER REFLECTORS, TYPE 3 BIDIRECTIONAL

BARRIER REFLECTORS, TYPE 3 BIDIRECTIONAL SHALL BE FURNISHED AND INSTALLED AT APPROXIMATELY FIFTY-FOOT (50') INTERVALS ON THE PROPOSED GUARDRAIL SECTIONS.

ITEM 644 - STOP LINE

STOP LINES, PER ODOT SCD TC-71.10, SHALL BE PLACED AS LISTED AT THE LOCATIONS BELOW. THE ENGINEER WILL MARK THE EXACT LOCATION.

ADAMS ROAD AT OLD STATE ROAD	20 FT
ADAMS ROAD NORTHBOUND AT SWINE CREEK ROAD	15 FT
ADAMS ROAD SOUTHBOUND AT SWINE CREEK ROAD	15 FT
BRIDGE ROAD AT ADAMS ROAD	10 FT
ADAMS ROAD AT SR 528	20 FT

GENERAL NOTES

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.14	29

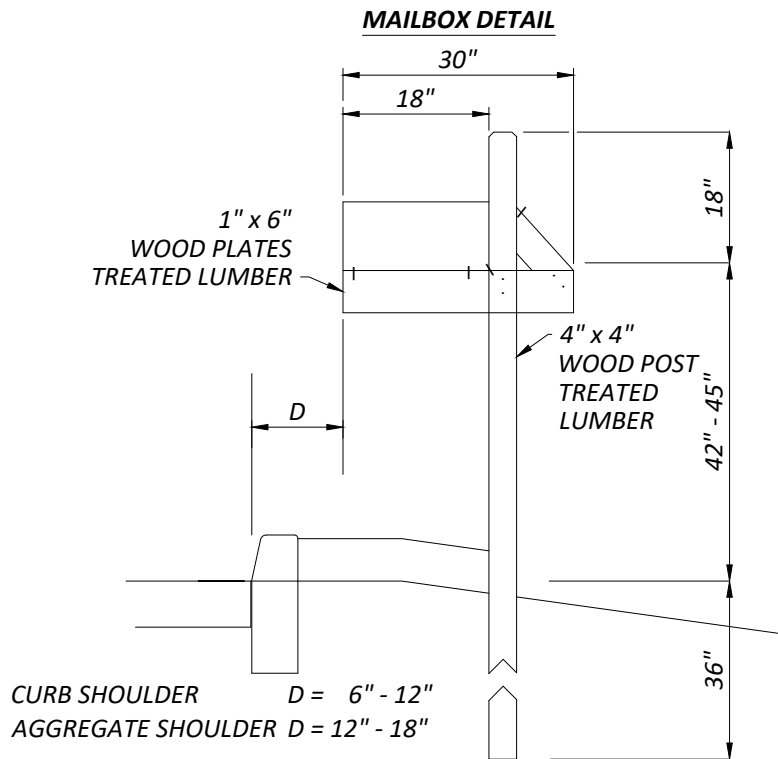
ITEM SPECIAL - MAILBOX ASSEMBLY, REMOVED AND RESET

AS DIRECTED BY THE ENGINEER, THIS WORK SHALL CONSIST OF REMOVING AND RESETTING EXISTING MAILBOX ASSEMBLIES PER THE MAILBOX DETAIL. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL MAILBOXES FOR THE DURATION OF THE PROJECT.

IF THE ENGINEER DETERMINES THE EXISTING SUPPORT UNUSABLE, THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW MAILBOX SUPPORT AND PROPERLY DISPOSE OF THE EXISTING SUPPORT.

SET OR DRIVE POSTS PLUMB IN A MANNER THAT PREVENTS BATTERING OR DISTORTION OF POSTS. ATTACHMENT HARDWARE (PLATES, BOLTS, ETC.) SHALL BE MADE OF COMMERCIAL-GRADE STEEL. COATED DECK SCREWS SHALL BE USED. SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION. NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST. THE CONTRACTOR SHALL SECURELY ATTACH THE MAILBOX TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (SCREWS, NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION. IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE RESIDENT, OR BY OTHERS, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT.

DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY ASSEMBLY DAMAGED BY IMPROPER HANDLING BY THE CONTRACTOR WITH AN EQUAL ASSEMBLY AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POSTMASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.



GENERAL NOTES

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.15	29

SWINE CREEK ROAD	0.68 MILES	860 VEHICLES PER DAY
ADAMS ROAD	0.79 MILES	700 VEHICLES PER DAY

ITEM 614 - MAINTAINING TRAFFIC

TRAFFIC SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH AT LEAST TWO (2) EMPLOYEES TO SERVE AS TRAFFIC CONTROL FLAGGERS AND THE WORK ZONE SHALL FOLLOW THE SPECIFICATIONS SET FORTH IN ODOT SCD MT-97.12 UNLESS NOTED OTHERWISE. IN ORDER TO PROPERLY MAINTAIN TRAFFIC, THE CONTRACTOR SHALL USE ADDITIONAL FLAGGERS WHEN WORKING AT THE INTERSECTIONS OF ADJACENT ROADS.

ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR. ADDITIONAL SIGNS MAY BE REQUIRED AND INSTALLED AS DIRECTED BY THE ENGINEER. ROAD WORK SIGNS (W20-1) AND ADVANCE STREET NAME PLAQUES (W16-8P) SHALL BE PLACED IN ADVANCE OF AND ON ALL APPROACHES TO THE PROJECT. BUMP (W8-1) SIGNS SHALL BE PLACED IN EACH DIRECTION AT ALL BUTT JOINT LOCATIONS.

AFTER THE PLACEMENT OF THE INTERMEDIATE COURSE, THE CONTRACTOR SHALL INSTALL LOW SHOULDER SIGNS (W8-9) AT THE PROJECT BEGINNING AND ENDING LOCATIONS AND THE INTERSECTING SIDE ROADS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD). THE CONTRACTOR SHALL FREQUENTLY REVIEW ALL PROJECT SIGNING FOR COMPLIANCE WITH THE PLANS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SHALL IMMEDIATELY CORRECT DEFECTS FOUND TO ENSURE THE SAFETY OF THE TRAVELING PUBLIC. PAYMENT FOR ALL LABOR, TRAFFIC CONTROL DEVICES, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR THIS ITEM UNLESS SEPARATELY ITEMIZED IN THE PLAN.

“LOOSE STONE/GRAVEL” (W8-7) AND “FRESH TAR” (W21-2) SIGNS SHALL BE PLACED AT THE BEGINNING AND END LOCATIONS OF THE PROJECT.

THE CONTRACTOR SHALL TEMPORARILY CLOSE THE ROADWAY TO THROUGH TRAFFIC AS NECESSARY TO PERFORM THE CHIP SEAL OPERATION. THE CONTRACTOR SHALL FURNISH AT LEAST THREE EMPLOYEES TO SERVE AS TRAFFIC CONTROL FLAGGERS. A FLAGGER SHALL BE PLACED AT EACH END OF THE TEMPORARILY CLOSED SECTION AND ONE FLAGGER SHALL BE USED TO MAINTAIN RESIDENTIAL TRAFFIC. ROAD ACCESS SHALL BE RESTORED AT THE END OF EACH WORKDAY.

MAINTENANCE OF TRAFFIC

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.16	29

THE PRECISION (SIGNIFICANT DECIMAL PLACE) FOR INDIVIDUAL CONTRACT ITEMS WILL BE PAID BASED ON THE PRECISION PROVIDED IN THE GENERAL SUMMARY. THIS SHALL SUPERSEDE THE PRECISION PROVIDED IN THE BID PROPOSAL SHOULD ANY DISCREPANCY OCCUR.

ROAD TOTALS		CONTINGENCY	ITEM	GRAND TOTAL	UNIT	DESCRIPTION
TR-0119	TR-0512					
SWINE CREEK ROAD	ADAMS ROAD					
69	148	18	202	235	SY	WEARING COURSE REMOVED, AS PER PLAN
263	223	0	202	486	FT	GUARDRAIL REMOVED
156	61	83	202	300	SY	PAVEMENT REMOVED (DRIVEWAYS)
158.0	235.0	17.0	253	410.0	CY	PAVEMENT REPAIR
20.0	8.0	7.0	301	35.0	CY	ASPHALT CONCRETE BASE, PG64-22, (449), (DRIVEWAYS), AS PER PLAN
813	884	78	407	1775	GAL	NON-TRACKING TACK COAT
6200	6757	393	422	13350	GAL	EMULSION, CHIP SEAL, POLYMER MODIFIED, CRS-2P, AS PER PLAN
76.0	82.0	12.0	422	170.0	CY	AGGREGATE, CHIP SEAL, NO. 67 LIMESTONE, AS PER PLAN
76.0	82.0	12.0	422	170.0	CY	AGGREGATE, CHIP SEAL, NO. 8 LIMESTONE, AS PER PLAN
492.0	537.0	31.0	441	1060.0	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22
14.0	13.0	8.0	441	35.0	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 (DRIVEWAYS)
775.0	687.5	0	606	1462.5	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
2	6	0	606	8	EACH	ANCHOR ASSEMBLY, MGS TYPE E
6	2	0	606	8	EACH	ANCHOR ASSEMBLY, MGS TYPE T
			614	1	LS	MAINTAINING TRAFFIC
83.0	97.0	10.0	617	190.0	CY	COMPACTED AGGREGATE (RAP)
			624	1	LS	MOBILIZATION
20	22	0	626	42	EACH	BARRIER REFLECTORS, TYPE 3 BIDIRECTIONAL
0	80	0	644	80	FT	STOP LINE
16	21	0	SPEC	37	EACH	MAILBOX ASSEMBLY, REMOVED AND RESET
			SPEC	1	LS	CONTRACT PERFORMANCE BOND AND PREMIUM

GENERAL SUMMARY

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.17	29

ITEM 407 - NON-TRACKING TACK COAT

SWINE CREEK ROAD

SWINE CREEK ROAD AT ADAMS ROAD	REF. INTERSECTION DETAIL P.22	AREA = 523 SY
NORMAL SECTION	LENGTH = 3470 FT AVE. WIDTH = 21.53 FT	AREA = 8,302 SY
SWINE CREEK ROAD AT BRIDGE T0119-1.01	REF. INTERSECTION DETAIL P.22	AREA = 31 SY
		<u>ROAD SUBTOTAL = 8,856 SY</u>

ADAMS ROAD

ADAMS ROAD AT OLD STATE ROAD	REF. INTERSECTION DETAIL P.21	AREA = 70 SY
NORMAL SECTION	LENGTH = 4055 FT AVE. WIDTH = 20.82 FT	AREA = 9,381 SY
ADAMS ROAD AT BRIDGE ROAD	REF. INTERSECTION DETAIL P.21	AREA = 124 SY
ADAMS ROAD AT SR 528	REF. INTERSECTION DETAIL P.21	AREA = 78 SY
		<u>ROAD SUBTOTAL = 9,653 SY</u>

DRIVEWAYS

SWINE CREEK ROAD	AREA = 323 SY
ADAMS ROAD	AREA = 297 SY

TOTAL = ((8,856 + 9,653) SY x (0.09) GAL/SY) + (323 + 297) SY x (0.05) GAL/SY = 1697 GAL

USE = 1775 GAL

ITEM 422 - EMULSION, CHIP SEAL, POLYMER MODIFIED, CRS-2P, AS PER PLAN

SWINE CREEK ROAD

SWINE CREEK ROAD AT ADAMS ROAD	REF. INTERSECTION DETAIL P.22	AREA = 523 SY
NORMAL SECTION	LENGTH = 3470 FT AVE. WIDTH = 21.53 FT	AREA = 8,302 SY
SWINE CREEK ROAD AT BRIDGE T0119-1.01	REF. INTERSECTION DETAIL P.22	AREA = 31 SY
		<u>ROAD SUBTOTAL = 8,856 SY</u>

ADAMS ROAD

ADAMS ROAD AT OLD STATE ROAD	REF. INTERSECTION DETAIL P.21	AREA = 70 SY
NORMAL SECTION	LENGTH = 4055 FT AVE. WIDTH = 20.82 FT	AREA = 9,381 SY
ADAMS ROAD AT BRIDGE ROAD	REF. INTERSECTION DETAIL P.21	AREA = 124 SY
ADAMS ROAD AT SR 528	REF. INTERSECTION DETAIL P.21	AREA = 78 SY
		<u>ROAD SUBTOTAL = 9,653 SY</u>

TOTAL = (8,856 + 9,653) SY x (0.35+0.35) GAL/SY = 12957 GAL

USE = 13350 GAL

ITEM 422 - AGGREGATE, CHIP SEAL, NO. 67 LIMESTONE, AS PER PLAN

SWINE CREEK ROAD

SWINE CREEK ROAD AT ADAMS ROAD	REF. INTERSECTION DETAIL P.22	AREA = 523 SY
NORMAL SECTION	LENGTH = 3470 FT AVE. WIDTH = 21.53 FT	AREA = 8,302 SY
SWINE CREEK ROAD AT BRIDGE T0119-1.01	REF. INTERSECTION DETAIL P.22	AREA = 31 SY
		<u>ROAD SUBTOTAL = 8,856 SY</u>

ADAMS ROAD

ADAMS ROAD AT OLD STATE ROAD	REF. INTERSECTION DETAIL P.21	AREA = 70 SY
NORMAL SECTION	LENGTH = 4055 FT AVE. WIDTH = 20.82 FT	AREA = 9,381 SY
ADAMS ROAD AT BRIDGE ROAD	REF. INTERSECTION DETAIL P.21	AREA = 124 SY
ADAMS ROAD AT SR 528	REF. INTERSECTION DETAIL P.21	AREA = 78 SY
		<u>ROAD SUBTOTAL = 9,653 SY</u>

TOTAL = (8,856 + 9,653) SY x (0.0085) CY/SY = 158 CY

USE = 170 CY

CALCULATIONS

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.19	29

ITEM 422 - AGGREGATE, CHIP SEAL, NO. 8 LIMESTONE, AS PER PLAN

SWINE CREEK ROAD

SWINE CREEK ROAD AT ADAMS ROAD	REF. INTERSECTION DETAIL P.22	AREA = 523 SY
NORMAL SECTION	LENGTH = 3470 FT AVE. WIDTH = 21.53 FT	AREA = 8,302 SY
SWINE CREEK ROAD AT BRIDGE T0119-1.01	REF. INTERSECTION DETAIL P.22	AREA = 31 SY
		ROAD SUBTOTAL = 8,856 SY

ADAMS ROAD

ADAMS ROAD AT OLD STATE ROAD	REF. INTERSECTION DETAIL P.21	AREA = 70 SY
NORMAL SECTION	LENGTH = 4055 FT AVE. WIDTH = 20.82 FT	AREA = 9,381 SY
ADAMS ROAD AT BRIDGE ROAD	REF. INTERSECTION DETAIL P.21	AREA = 124 SY
ADAMS ROAD AT SR 528	REF. INTERSECTION DETAIL P.21	AREA = 78 SY
		ROAD SUBTOTAL = 9,653 SY

TOTAL = (8,856 + 9,653) SY x (0.0085) GAL/SY = 158 CY

USE = 170 CY

ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22

SWINE CREEK ROAD

SWINE CREEK ROAD AT ADAMS ROAD	REF. INTERSECTION DETAIL P.22	AREA = 523 SY
NORMAL SECTION	LENGTH = 3470 FT AVE. WIDTH = 21.53 FT	AREA = 8,302 SY
SWINE CREEK ROAD AT BRIDGE T0119-1.01	REF. INTERSECTION DETAIL P.22	AREA = 31 SY
		ROAD SUBTOTAL = 8,856 SY

ADAMS ROAD

ADAMS ROAD AT OLD STATE ROAD	REF. INTERSECTION DETAIL P.21	AREA = 70 SY
NORMAL SECTION	LENGTH = 4055 FT AVE. WIDTH = 20.82 FT	AREA = 9,381 SY
ADAMS ROAD AT BRIDGE ROAD	REF. INTERSECTION DETAIL P.21	AREA = 124 SY
ADAMS ROAD AT SR 528	REF. INTERSECTION DETAIL P.21	AREA = 78 SY
		ROAD SUBTOTAL = 9,653 SY

DEPTH = 2.0 INCH

TOTAL = (8856 + 9653) SY x 2.0 INCH / 36 = 1029 CY

USE = 1060 CY

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 (DRIVEWAYS)

APPROXIMATE QUANTITIES PROVIDED, EXACT LIMITS TO BE MARKED IN THE FIELD BY THE ENGINEER

SWINE CREEK ROAD (16 EACH DRIVEWAYS)	AREA = 297 SY	DEPTH = 1.5 INCH	VOLUME = 13 CY
ADAMS ROAD (15 EACH DRIVEWAYS)	AREA = 323 SY	DEPTH = 1.5 INCH	VOLUME = 14 CY
			USE = 35 CY

CALCULATIONS

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.20	29

ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS

SWINE CREEK ROAD

SLM 0.63 LENGTH = 275 FT
SLM 0.71 LENGTH = 112.5 FT
SLM 0.76 LENGTH = 387.5 FT

ADAMS ROAD

SLM 0.33 LENGTH = 375 FT
SLM 0.57 LENGTH = 312.5 FT

USE = 1462.5 FT

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

SWINE CREEK ROAD

SLM 0.63 QTY. = 1 EACH
SLM 0.71 QTY. = 1 EACH

ADAMS ROAD

SLM 0.33 QTY. = 2 EACH
SLM 0.57 QTY. = 4 EACH

USE = 8 EACH

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE T

SWINE CREEK ROAD

SLM 0.63 QTY. = 3 EACH
SLM 0.71 QTY. = 1 EACH
SLM 0.76 QTY. = 2 EACH

ADAMS ROAD

SLM 0.33 QTY. = 2 EACH

USE = 8 EACH

ITEM 617 - COMPACTED AGGREGATE (RAP)

SWINE CREEK ROAD

NORMAL SECTION LENGTH = 3580 FT x 2 SIDES = 7160 FT

ADAMS ROAD

NORMAL SECTION LENGTH = 4165 FT x 2 SIDES = 8330 FT

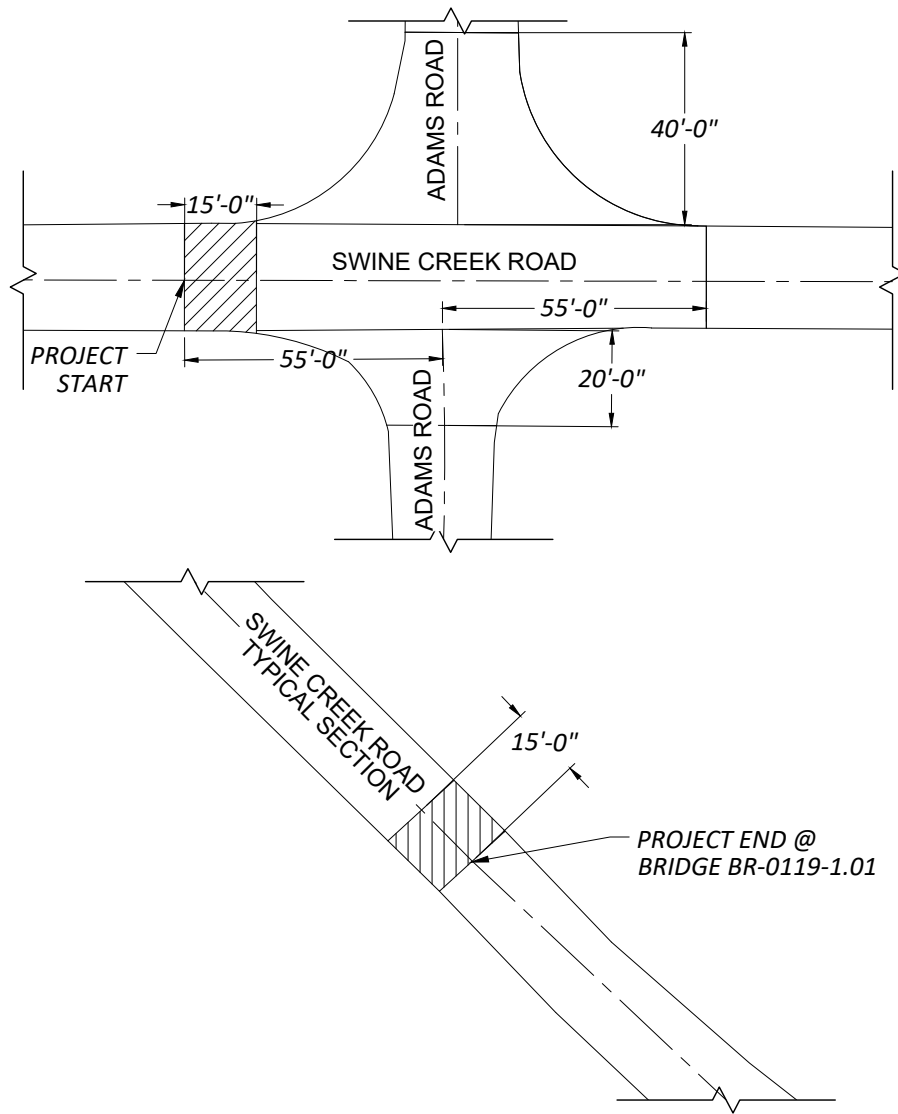
WIDTH = 1.5 FT DEPTH = 2.5 INCH

SUBTOTAL = (7160 + 8330) FT x 1.5 FT x 2.5 INCH / 324 = 180 CY

USE = 190 CY

CALCULATIONS

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.21	29



INTERSECTION DETAILS - SWINE CREEK ROAD

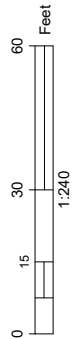
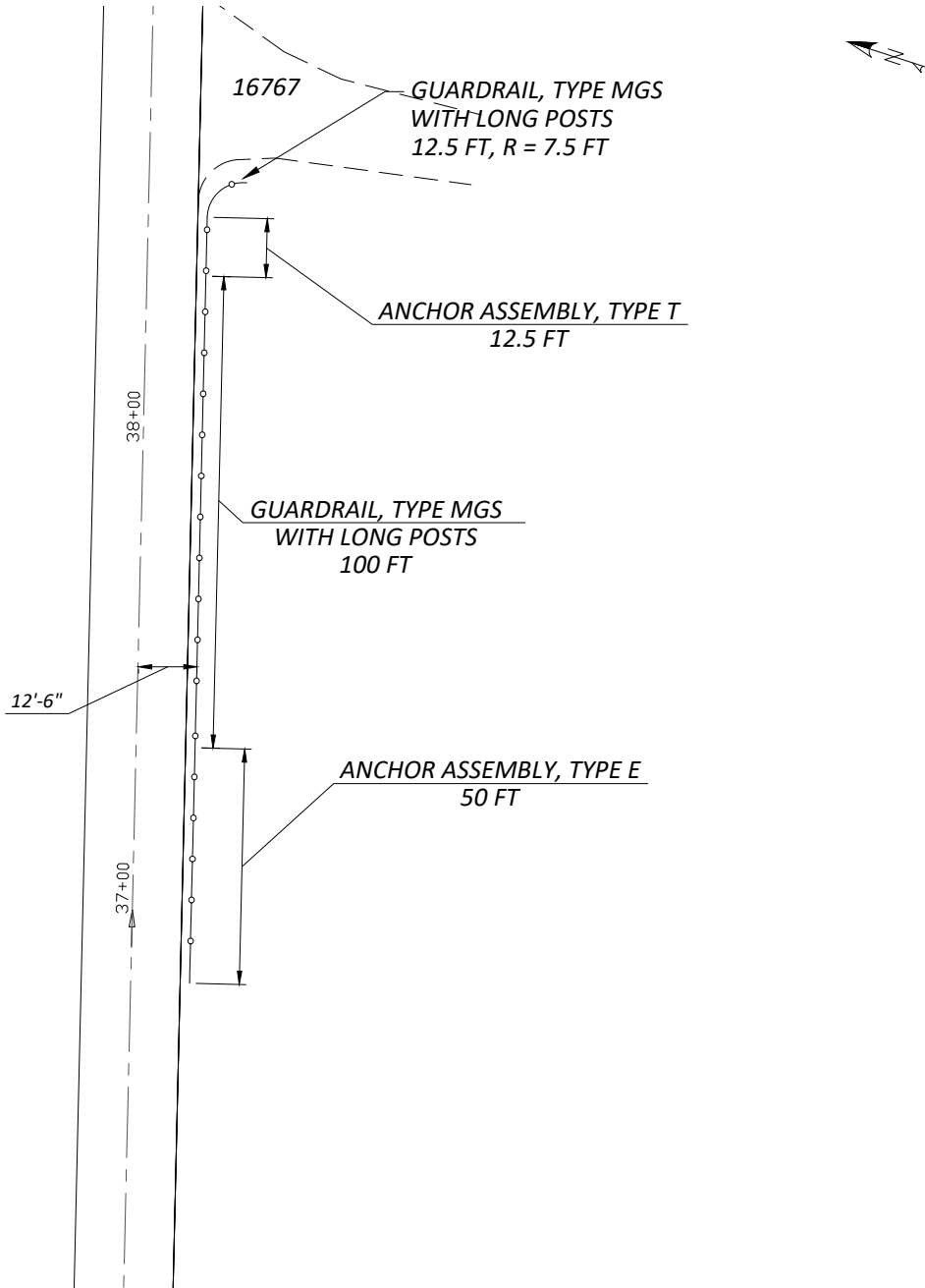
LEGEND

MILL, INTERMEDIATE ASPHALT, AND CHIP SEAL

DESCRIPTION	LENGTH L	TOTAL AREA	PROPOSED ITEMS			
			202		441	
			DEPTH	SY	DEPTH	CY
SWINE CREEK ROAD @ ADAMS ROAD	15	38	WEARING COURSE REMOVED, AS PER PLAN 2.00"	38	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22 2.00"	2.2
SWINE CREEK @ BRIDGE T0119-1.01	15	31	2.00"	31	2.00"	1.7

TOTALS CARRIED TO CALCULATIONS SHEETS

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	P.24
TOTAL	29

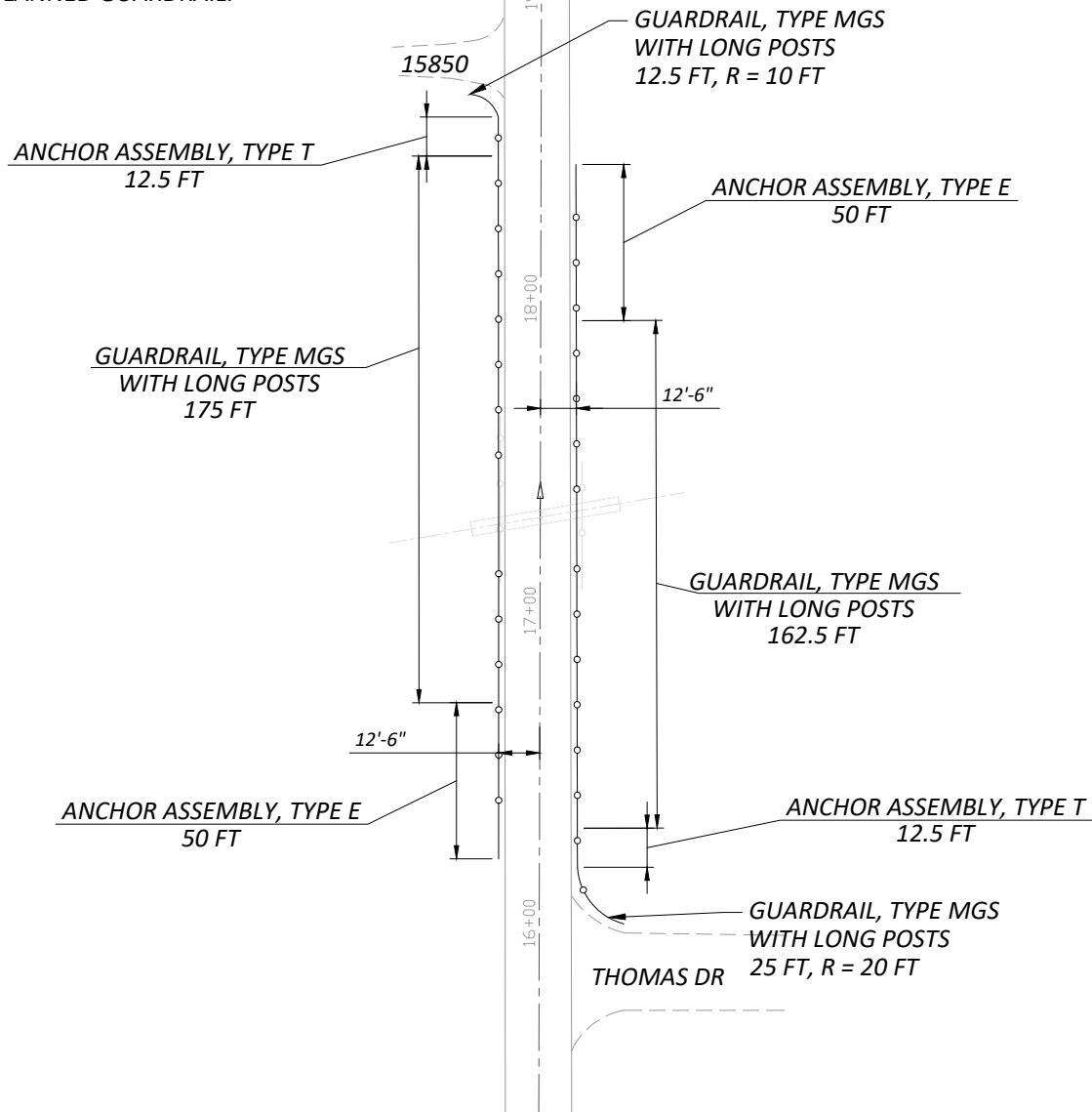


GUARDRAIL DETAIL - SWINE CREEK ROAD

GUARDRAIL LOCATION	LANE	STATION	PROPOSED ITEMS			
			606	606	606	626
			GUARDRAIL, TYPE MGS WITH LONG POSTS	ANCHOR ASSEMBLY, MGS, TYPE E	ANCHOR ASSEMBLY, MGS, TYPE T	BARRIER REFLECTORS, TYPE 3 BIDIRECTIONAL
			FT	EACH	EACH	EACH
SWINE CREEK SLM 0.71	EB	36+80 - 38+50	112.5	1	1	4
TOTALS CARRIED TO CALCULATIONS SHEETS						

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.26	29

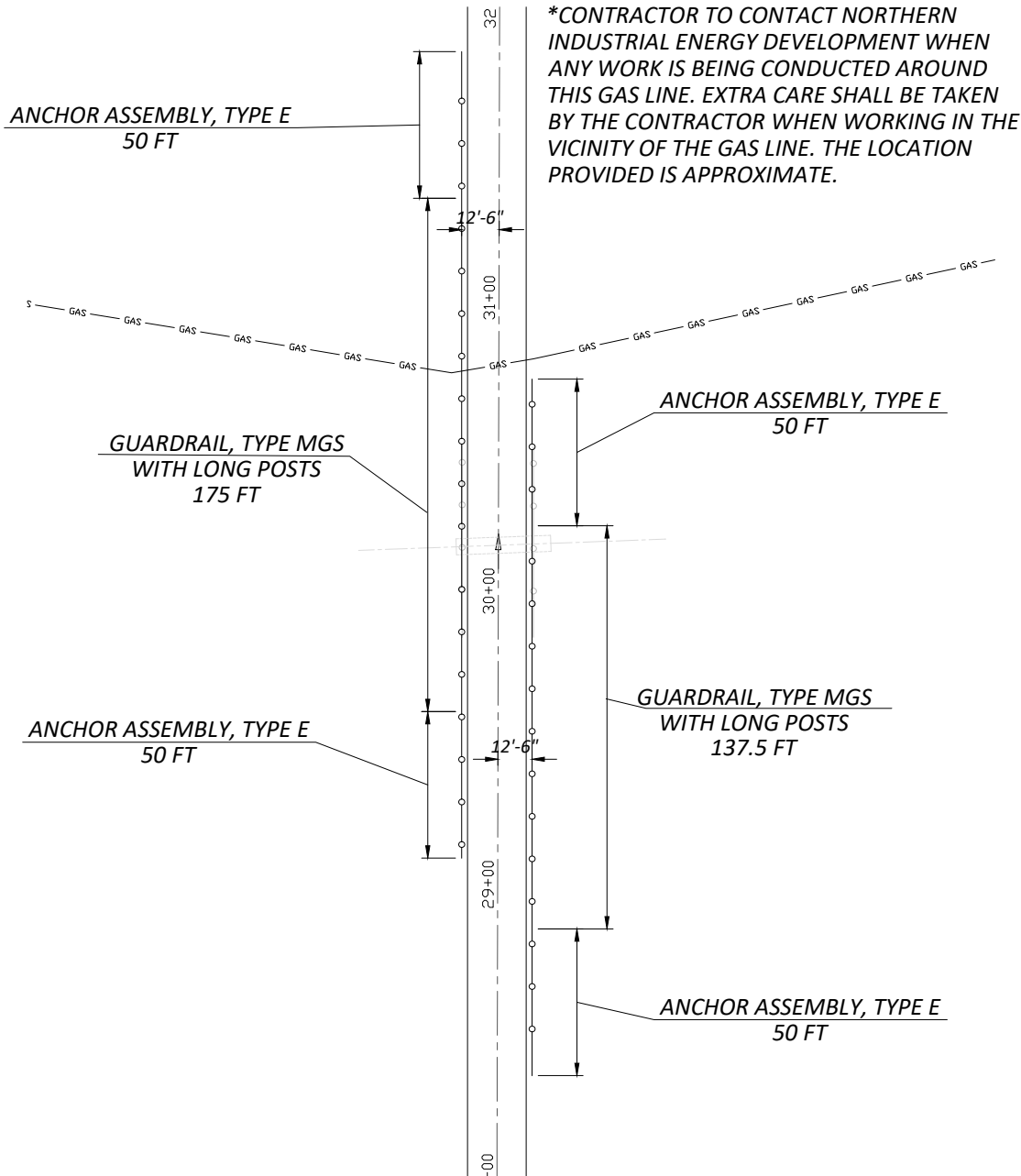
*CONTRACTOR TO REMOVE AND RESET MAILBOX AT 15850 TO BE PAID UNDER ITEM SPEC MAILBOX ASSEMBLY, REMOVED AND RESET. THIS WILL ALLOW FOR THE PROPER INSTALLATION OF PLANNED GUARDRAIL.



GUARDRAIL DETAIL - ADAMS ROAD

GUARDRAIL LOCATION	LANE	STATION	PROPOSED ITEMS				
			202	606	606	606	626
			GUARDRAIL REMOVE	GUARDRAIL, TYPE MGS WITH LONG POSTS	ANCHOR ASSEMBLY, MGS, TYPE E	ANCHOR ASSEMBLY, MGS, TYPE T	BARRIER REFLECTORS, TYPE 3 BIDIRECTIONAL
			FT	FT	EACH	EACH	EACH
ADAMS ROAD SLM 0.33	NB	16+00 - 18+43	40	187.5	1	1	5
	SB	16+20 - 18+65	53	187.5	1	1	5
TOTALS CARRIED TO CALCULATIONS SHEETS							

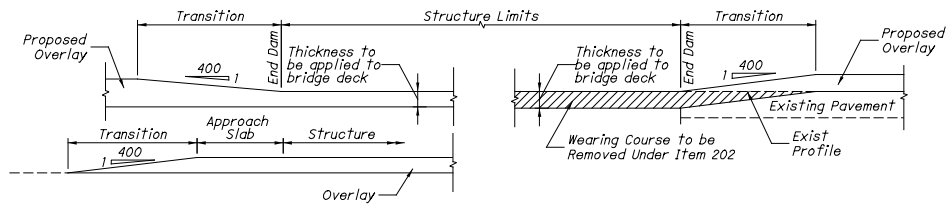
DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	TOTAL
P.28	29



GUARDRAIL DETAIL - ADAMS ROAD

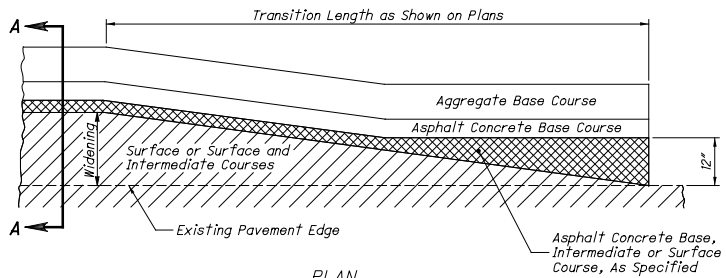
GUARDRAIL LOCATION	LANE	STATION	PROPOSED ITEMS			
			202	606	606	626
			GUARDRAIL REMOVE	GUARDRAIL, TYPE MGS WITH LONG POSTS	ANCHOR ASSEMBLY, MGS, TYPE E	BARRIER REFLECTORS, TYPE 3 BIDIRECTIONAL
ADAMS ROAD SLM 0.57	NB	28+35 - 31+22	65	137.5	2	6
	SB	29+09 - 31+84	65	175	2	6
TOTALS CARRIED TO CALCULATIONS SHEETS			FT	FT	EACH	EACH

DESIGNER	JRS
REVIEWER	SEH 4/22/2026
PROJECT ID	RS-MID-V-2026
SHEET	P.29
TOTAL	29



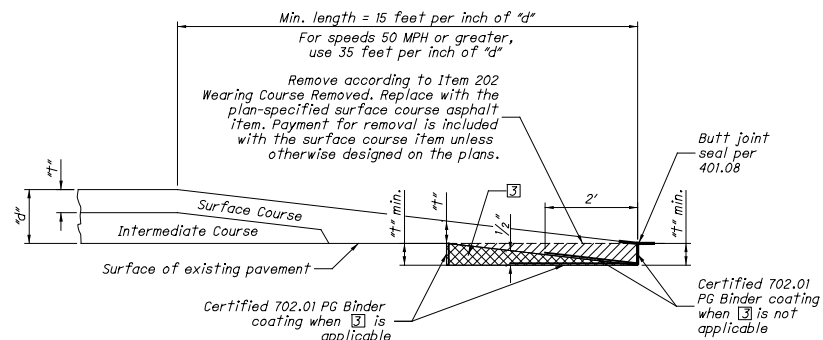
Details assume non-settled approach slabs. Smoothing of the profile for Settlement is required per plan grades or as directed by the Engineer.

TRANSITIONING AT STRUCTURES

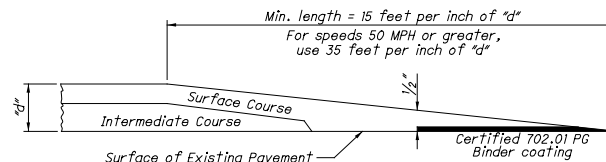


PLAN

MERGING EDGE OF PAVEMENT WIDENING WITH EDGE OF EXISTING PAVEMENT



Butt Joint



Taper End

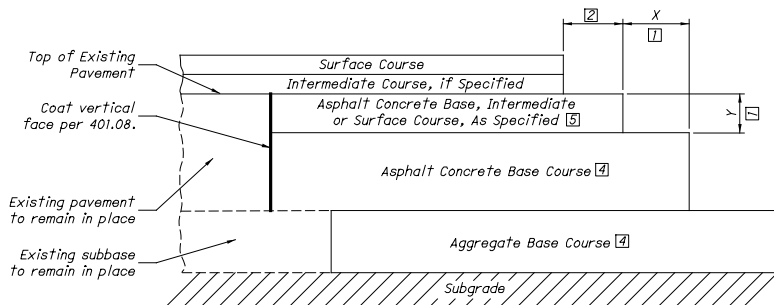
NOTE: Butt joint is required unless the taper end is specified in the plans or approved by the Engineer

BUTT JOINTS AND TAPER ENDS

Values for "d" and "d" are obtained from the plans.

LEGEND

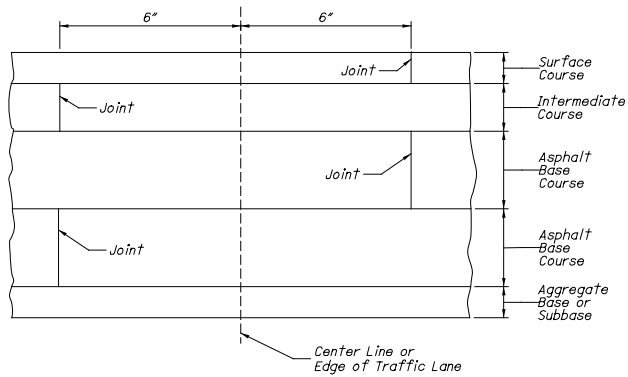
- [1] The extended width (X) of a base or subbase lift shall be equal to the depth (Y) of the overlying lift or 6", whichever is greater, or as shown on the plans.
- [2] The extended width shall be equal to the combined thickness of the surface and intermediate courses, or 4", whichever is greater.
- [3] Permissible removal and replacement.
- [4] The bottom of the proposed Asphalt Concrete Base course and Aggregate Base course may not align with the existing pavement or subbase as shown. Ensure the widening subgrade is at or below the existing subgrade to ensure proper drainage.
- [5] Construct the lift shown so that the compacted surface slightly exceeds the elevation of the top of the existing pavement.



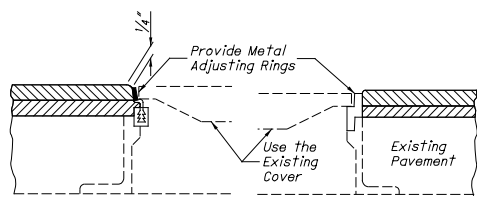
SECTION A-A

COURSE DETAIL FOR WIDENING

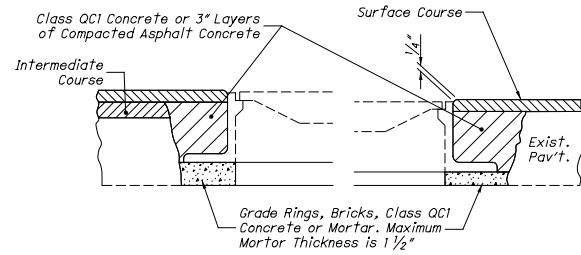
Note: Do not use this detail for cold longitudinal joints required by phasing for maintenance of traffic.



LAPPING LONGITUDINAL JOINTS
(see notes)

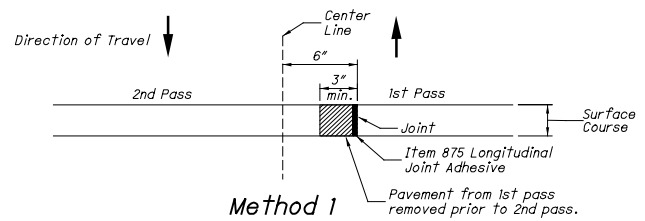


Using Metal Adjusting Rings

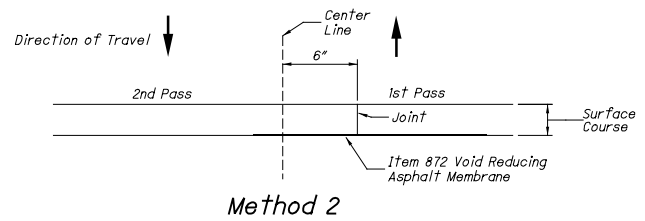


Using Concrete or Mortar

MANHOLES ADJUSTED TO GRADE

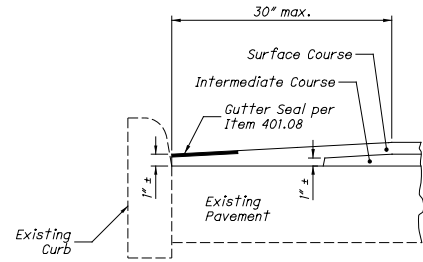


Method 1



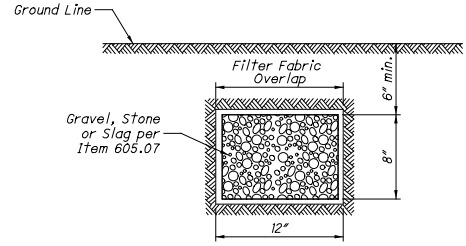
Method 2

LONGITUDINAL JOINT PREPARATION
(if specified)



GUTTER FINISH

Special care shall be taken during construction to obtain maximum compaction of asphalt concrete in gutters.



AGGREGATE DRAIN

Aggregate drains to be placed where and as directed by Engineer. Provide Filter Fabric when specified as a separate pay item.

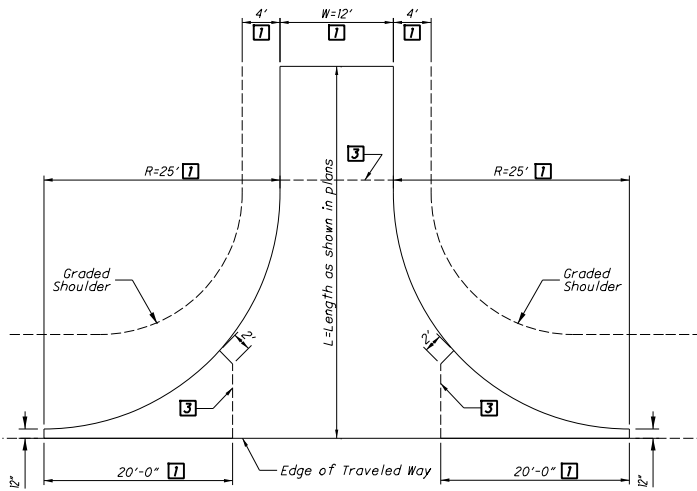
NOTES

GENERAL: Lap all longitudinal joints as shown regardless of the number of courses being placed. Do not construct a longitudinal joint directly above and in line with the longitudinal joint of previously placed material.

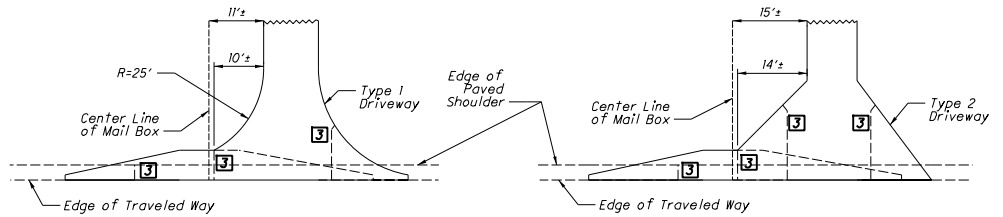
METAL ADJUSTING RINGS:
 Metal adjusting rings shall:
 (a) Attach securely to the existing frame by welding or mechanical devices;
 (b) Consist either of cast metal having an integral rim and seat, or be fabricated metal with a sturdy connection between the seat and rim; and
 (c) Provide an even seat for the manhole cover.
 In addition, the adjusting ring type shall be a design acceptable to the local governmental agency responsible for street and sewer maintenance. Any installation unacceptable to the Engineer shall be replaced by the Contractor at his expense.

PAYMENT: The Department will pay for manholes adjusted to grade using Item 611 Manhole, Catch Basin, or Inlet Adjusted To Grade. The Department will pay for longitudinal joint preparation using Item 874 Longitudinal Joint Preparation.

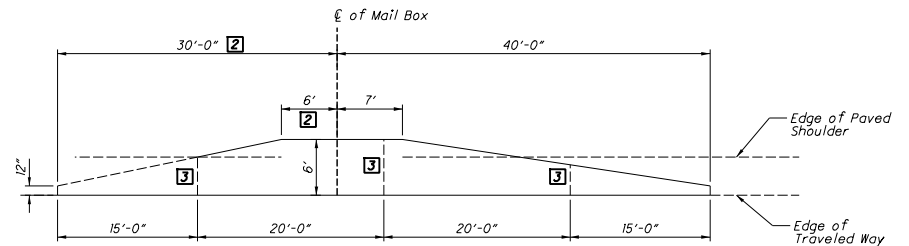
OFFICE OF PAVEMENT ENGINEERING	
REVISIONS	10-19-2007 01-20-2012 04-20-2012 07-18-2014 10-18-2019 01-17-2020 01-21-2022 01-19-2024
STDS ENGINEER	W. Feehan
STATE OF OHIO OFFICE OF PAVEMENT ENGINEERING ADMINISTRATOR	Craig E. Landefeld
ASPHALT PAVING	
DESIGN AGENCY	
SCD NUMBER	BP-3.1
SHEET	TOTAL
P.2	2



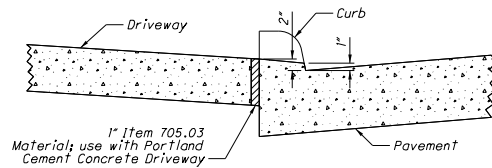
TYPE 1 DRIVEWAY



COMBINED DRIVEWAY & MAIL BOX APPROACH

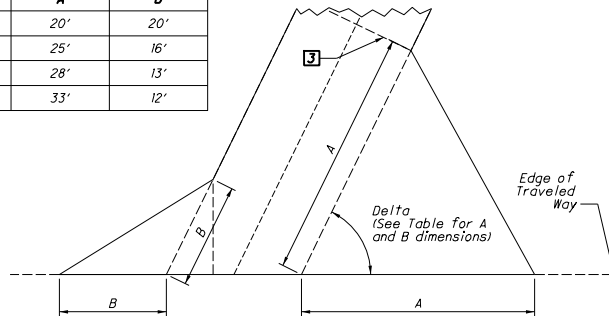


TYPICAL MAIL BOX APPROACH



DROP CURB DETAILS AT DRIVEWAYS

Delta	A	B
80° to 90°	20'	20'
75° to 85°	25'	16'
65° to 75°	28'	13'
55° to 65°	33'	12'



TYPE 2 SKEWED DRIVEWAY

Transition from Standard Curb Section to Drop Curb Section to be made in 18" distance from Driveway

NOTES

GENERAL: The design details shown here shall govern the construction of driveways unless otherwise shown in the project plans.

The pavement type and thickness shall be specified in the project plans.

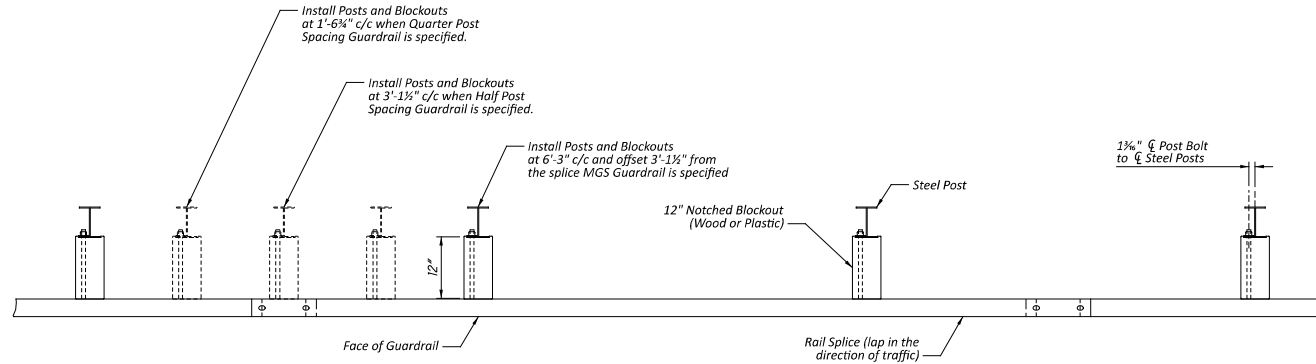
Driveway and mail box approaches shall be combined when feasible.

JOINTS: Impressed joints for portland cement concrete driveways shall be 1/4" minimum width by 3" depth and shall be sealed with Item 705.04 or ASTM D 1850.

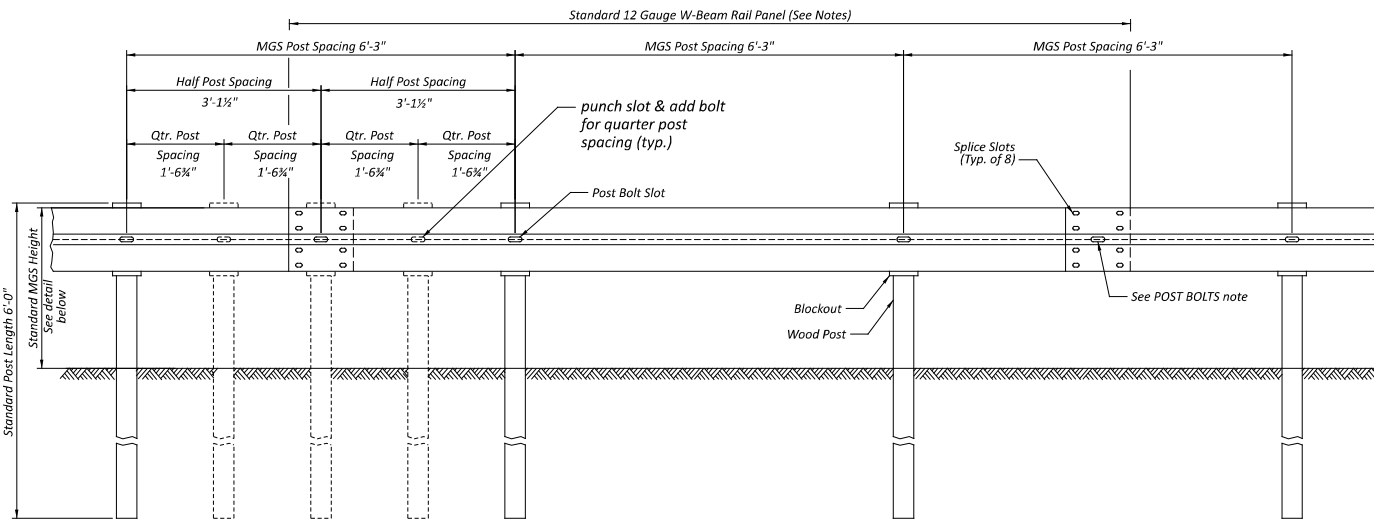
In addition to the joints shown here, impressed joints without tie bars shall be placed in portland cement concrete driveways at intervals not to exceed 17' in the portion of the driveway beyond the flare.

LEGEND

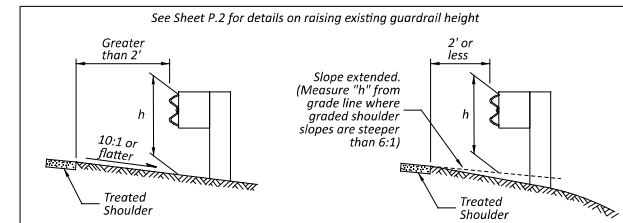
- 1 Unless otherwise shown in the plans.
- 2 Add 3' for each additional Mail Box
- 3 Impressed Joint without Tie Bars for Portland Cement Surface



PLAN VIEW
(Steel Posts shown)



ELEVATION
(Wood Posts shown)



MEASURING GUARDRAIL HEIGHT

NOTES

RAIL: Use W-Beam rail meeting the requirements of CMS 606.02. Either 13'-6 1/2" long (12'-6" between splices) or 26'-1/2" long (25'-0" between splices) rail sections may be used. See sheet P.3 for details

POSTS: Posts may be round wood, rectangular wood, or steel. A consistent post material shall be used for mainline posts of the same length unless otherwise specified in the plans or permitted by the Engineer. See sheet P.2 for details.

Wood post shall be fabricated and pressure-treated for approved species as per CMS 710.12. Bore bolt holes and, if required, trim the tops of posts after the posts are set. Exposed wood in result of boring holes or trimming posts shall be treated with copper naphthanate or other AWWA standard MA approved chemical.

Half-post and quarter-post spacing sections shall be constructed with steel posts.

Posts shall not be set in concrete, at any depth. See sheet P.5 for details on setting posts in asphalt, rocky terrain, and vegetation control strips.

See sheets P.6-P.7 for details on culvert mounted posts.

BLOCKOUTS: Blockout dimensions are dependent on post used, see sheet P.2. Wood Blockouts are to be pressure treated as specified in CMS 710.14. Bore bolt holes. Approved Alternate blockouts may be used in lieu of the wood blockouts shown. See the Approved Products List posted on Office of Roadway Engineering's website.

Half-post spacing sections require a 10" (height) blockout for each post spaced at 3'-1 1/2" c/c. See sheet P.2 for details. Quarter-post spacing sections require a 14" (height) blockout for each post spaced at 1'-6 3/4".

When terminating double-sided barrier guardrail with an impact attenuator, use reduced 8" deep blockouts on the last # posts on the barrier design to accommodate the narrower widths of the attenuators.

WASHERS: Install appropriate sized standard galvanized steel washers on the nut side of bolts installed on wood posts. Beam washers are not to be used.

POST BOLTS: The post bolt is not required at mid-span rail splice locations, but the contractor may install a bolt here to aid in installation. The bolt may remain in place when the splice is not within the pay limits of an end treatment.

GUARDRAIL HEIGHT: For initial installation, construct the guardrail within ±1" of the standard 31" height to the top of W-Beam rail. When subsequent projects, such as resurfacing, affect the height of existing guardrail, adjustment is not required if the finished height is within ±3" of the standard height.

DELINEATION: For Barrier Reflectors see CMS 626.

PAYMENT: MGS guardrail is paid in feet per Item 606 - Guardrail, Type MGS.

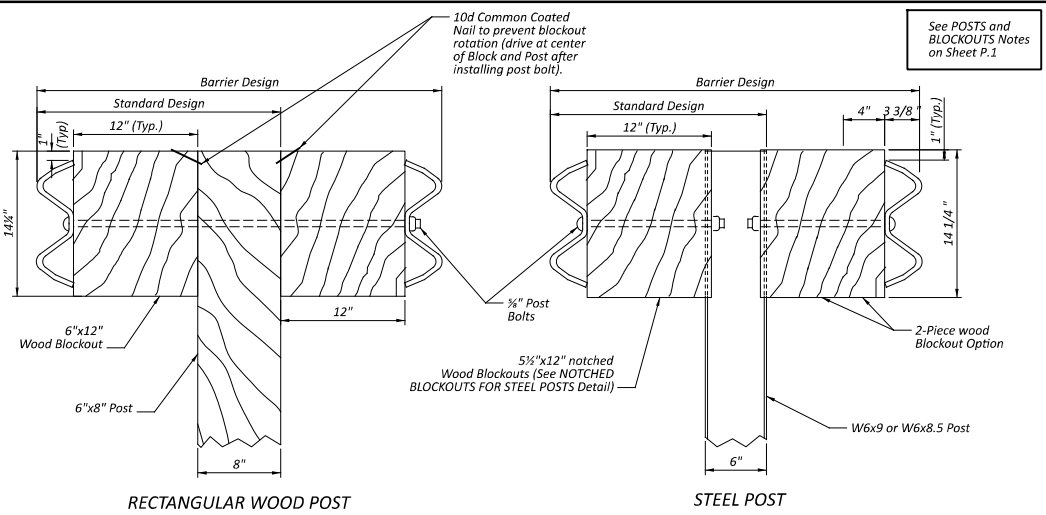
MGS with Long Posts is paid in feet per Item 606 - Guardrail, Type MGS With Long Posts

MGS with Half or Quarter Post Spacing is paid in feet per Item 606 - Guardrail, Type MGS Half Post Spacing or Item 606 - Guardrail, Type MGS Quarter Post Spacing

Double sided MGS (barrier design) is paid in feet per Item 606 - Guardrail, Barrier Design, Type MGS

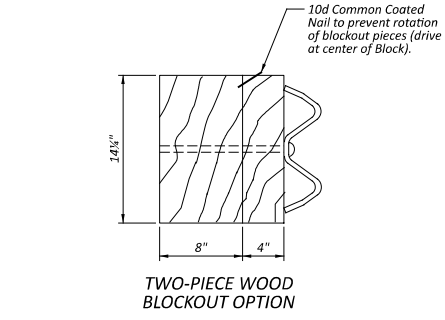


MGS-2.1
 MODEL: Sheet 2 IMPRISHE: 3622 (in.) DATE: 12/26/2023 TIME: 2:08:44 PM PRTDRV: OHDOT_PDF.plt66 PRTBL: OHDOT_PDF.plt66 USER: Andrew.Holloway@dot.ohio.gov WORKSPACE: OHDOT\CD\PROJECT_PIS_SCD_PRODUCT\Overhead\Designer: 24.00.00.205
 p:\1\ohdot\piv\benley.com\ohdot\piv\2023\Document\03_Summary\PI5_SCD\Revised\Working Folder\026200_JanMGS-2.1_2026-01-16.dgn



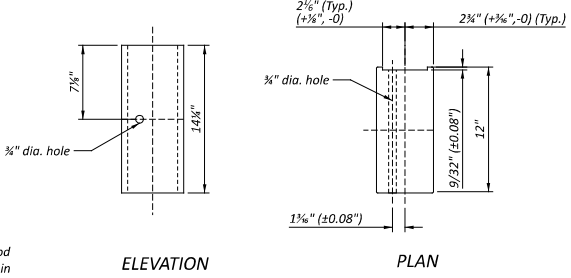
RECTANGULAR WOOD POST

STEEL POST

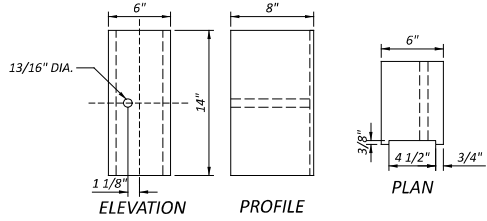


TWO-PIECE WOOD BLOCKOUT OPTION

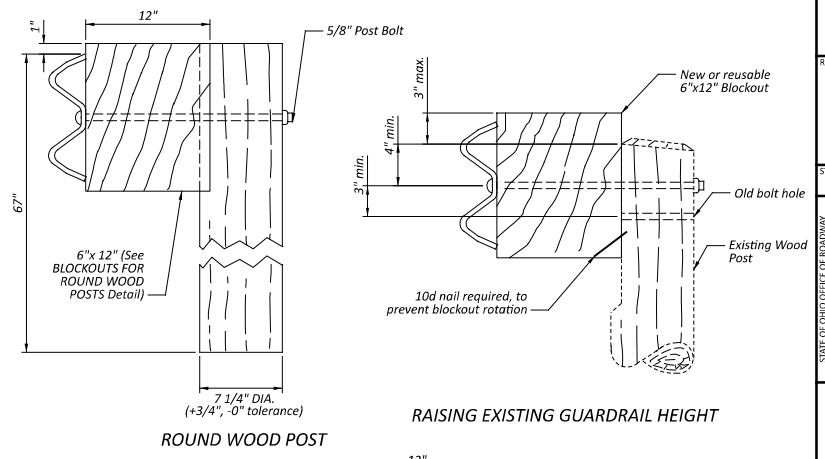
STEEL BEAM POSTS				
Size	Beam depth	Flange width	Flange thickness	Web thickness
Rolled W6x8.5	5.8"	3.94"	0.193"	0.170"
Rolled W6x9	5.9"	3.94"	0.215"	0.170"
Welded 6x8.5	6.0"	3.94"	0.193"	0.170"
Welded 6x9	6.0"	3.94"	0.215"	0.170"



NOTCHED BLOCKOUTS FOR STEEL POSTS

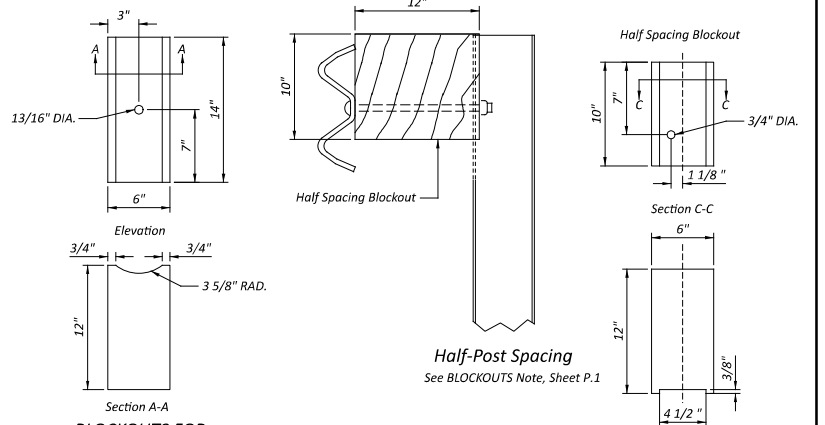


BLOCKOUT FOR TOP MOUNTED CULVERT DETAIL #1



ROUND WOOD POST

RAISING EXISTING GUARDRAIL HEIGHT



BLOCKOUTS FOR ROUND WOOD POSTS

Half-Post Spacing

NOTES

POSTS: The standard post length is 6'-0" (+3", -0" tolerance) for steel and rectangular wood posts. Round wood posts shall be 5'-8" (+3", -0" tolerance) in length. Post type shall remain consistent along the length of a run of MGS; do not use round wood posts if a portion of the run requires long posts.

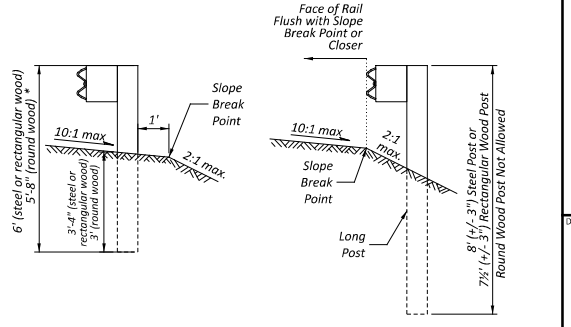
POST EMBEDMENT DEPTH: Standard embedment depth is 3'-4" minimum for steel and rectangular wood posts. Embedment depth shall be 3'-0" for round wooden posts.

Do not drive posts located over a culvert with less than 4'-3" of cover; instead set in drilled or dug holes. Where site constraints prohibit the post from being placed at least one foot in front of the slope break point, use longer posts as shown in the Guardrail Post Length and Position Detail. The face of the rail may not be beyond the slope break point.

SPECIAL POST MOUNTINGS: Install posts located over a drainage inlet or structure with a cover of less than 3'-4" as shown in the FOOTING ANCHOR Detail on Sheet P.4.

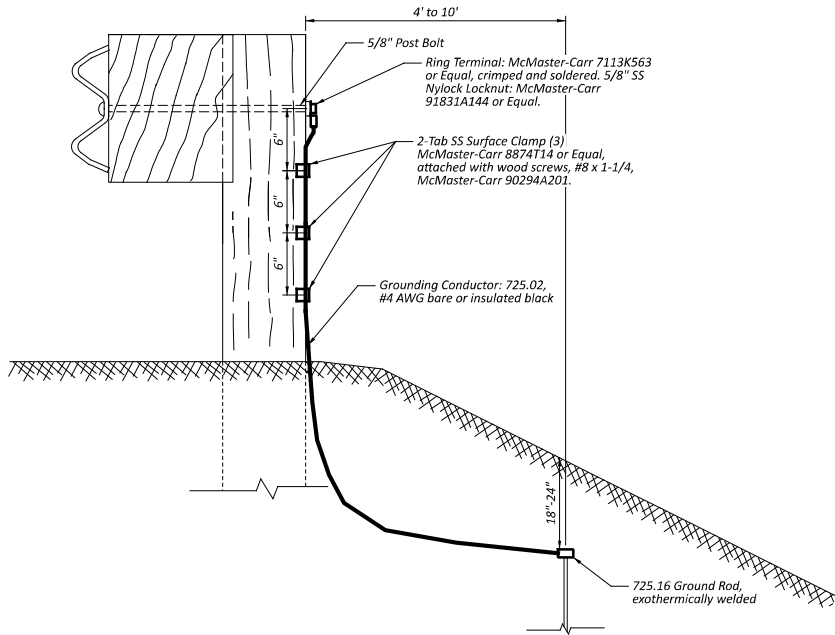
ANCHORS: Holes shall comply with CMS 51.0. Use non-shrink, nonmetallic grout per CMS 705.20.

PROTECTIVE COATING: In lieu of the complying with CMS 710.06, coat expansion shields, anchors and concrete insert anchor assemblies embedded in concrete in accordance with ASTM A 153 or be of stainless steel. Any bolts screwed into these devices shall meet CMS 710.06.



GUARDRAIL POST LENGTH AND POSITION

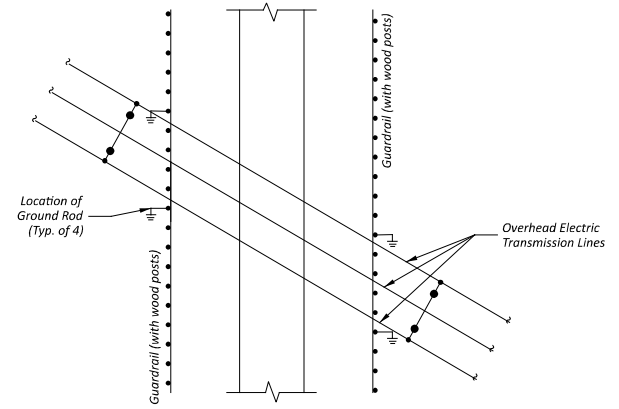
WOOD POST GROUNDING DETAIL
 ROUND (SHOWN) OR RECTANGULAR WOOD POSTS



NOTES:

GENERAL: Apply two coats of insulating varnish over exothermic welds and exposed cable.

PAYMENT: Guardrail grounds will be paid for at the unit price bid for **Item 625 - Ground Rod, Each.**



GUARDRAIL GROUNDS AT TRANSMISSION/SUB-TRANSMISSION LINES CROSSING

Ground Rod Installation Guidelines

	Transmission/Sub-Transmission Power Lines (≥69kV)	Distribution/Service Power Lines (<69kV)
Cross alignment of guardrail with wood posts	Install Ground Rods per Guardrail Grounds at Transmission Lines Crossing Detail	No Ground Rods required
Run Parallel to the guardrail with wood posts (within 50' measured horizontally of guardrail alignment)	Install (1) Ground Rod at the center of the run	No Ground Rods required

MG5-2.1

MODEL: Sheet 4 PAPER: SIZE: 34x22 (in.) DATE: 11/17/2024 TIME: 10:43:46 AM PLOTTER: CHD07_PDF_PLOT6 PENTBL: CHD07_PEN: INI USER: Andrew.Holloway@dot.ohio.gov WORKSPACE: CHD07CEL02 WORKSET: PHS_SCD PRODUCT: OjerebusDesign 24.00.00.205 P:\1\2\10\dot\p\h\chd07\p\h_scd\document\03\Standard\PHS_SCD\Roadway\Working Folder\02\02\01_Jan\MG5-2.1_2024-01-16.dgn

OFFICE OF ROADWAY ENGINEERING

REVISIONS

01-19-2018
 01-17-2025
 07-18-2025
 01-16-2026

STDS ENGINEER
 A. Holloway

STATE OF OHIO OFFICE OF ROADWAY ENGINEERING ADMINISTRATOR
 Adam Koenig

MIDWEST GUARDRAIL SYSTEM,
 STANDARD TYPE MGS
 GROUNDING DETAILS

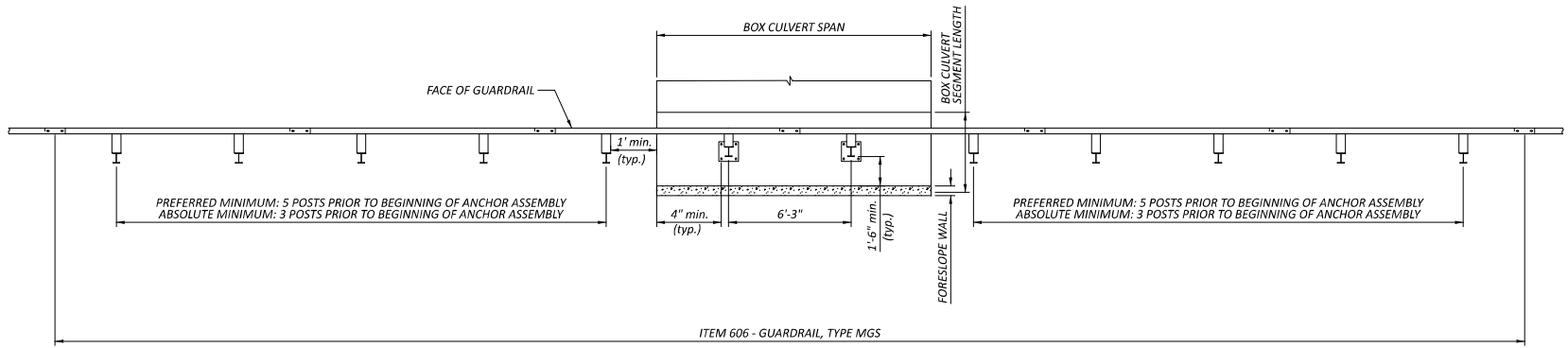
DESIGN AGENCY



SCD NUMBER
 MGS-2.1

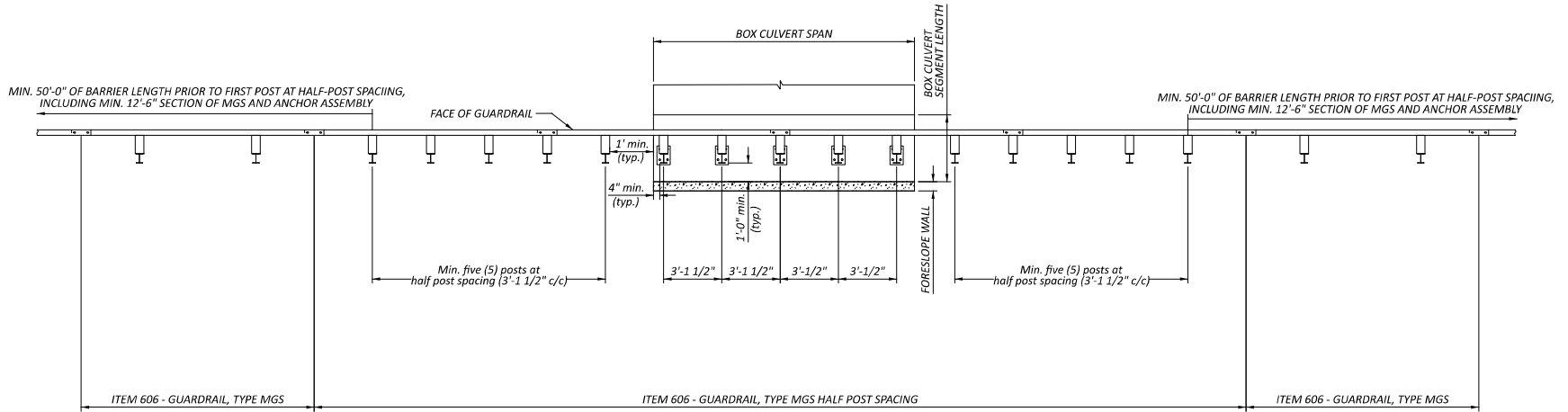
SHEET TOTAL
 P.4 7

TOP MOUNTED CULVERT DETAIL #1
PLAN VIEW



ITEM 606 - GUARDRAIL, TYPE MGS

TOP MOUNTED CULVERT DETAIL #2
PLAN VIEW



ITEM 606 - GUARDRAIL, TYPE MGS

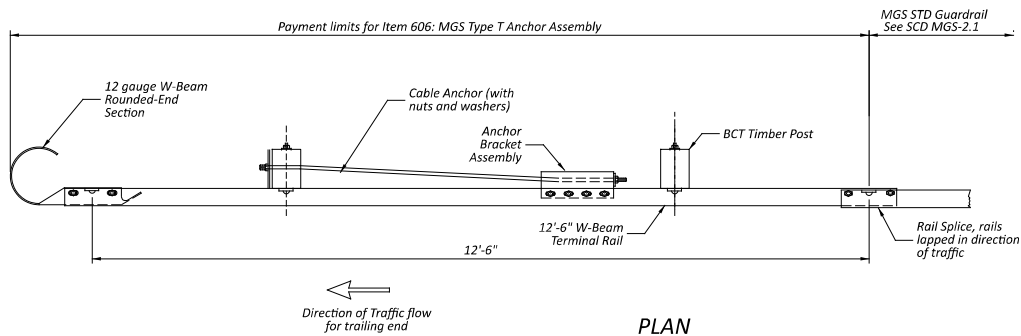
MIN. 12'-6\"/>

ITEM 606 - GUARDRAIL, TYPE MGS HALF POST SPACING

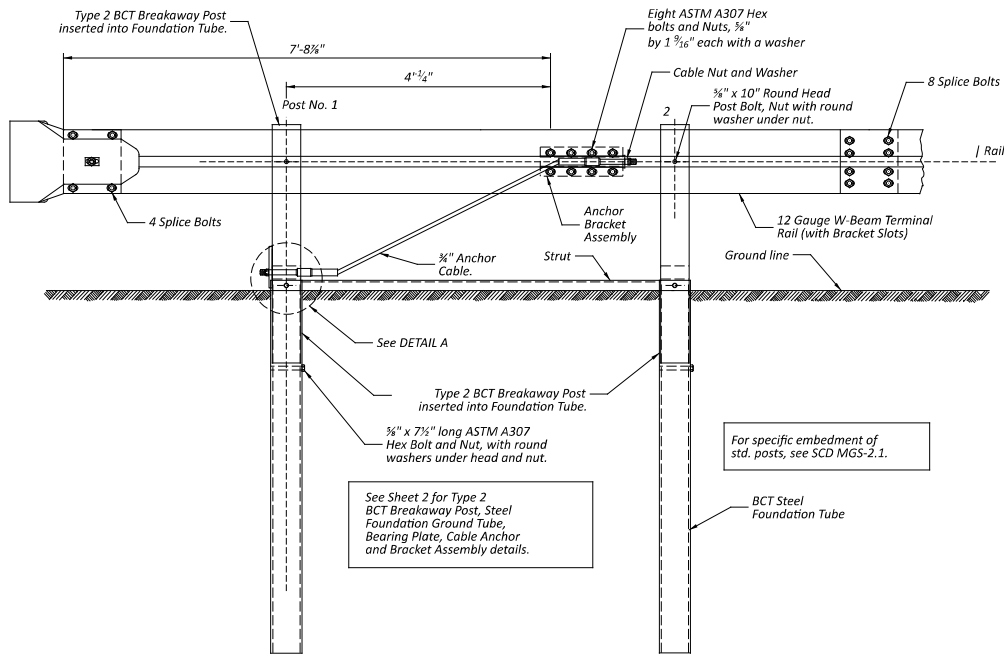
ITEM 606 - GUARDRAIL, TYPE MGS

MIN. 12'-6\"/>

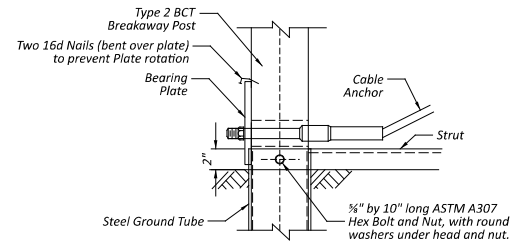




PLAN



DETAIL A



NOTES

APPLICATION: Use Type T Anchor Assemblies on the trailing end of guardrail runs, located outside of the clear zone of opposing traffic. The assembly is 12'-6" long; post #1 of the Type T shall be set 25' beyond the trailing end of the hazard.

For termination requirements at driveways, and side road approaches and Terminals at Structures, see Location & Design Manual, Volume 1, Figure 603-3.

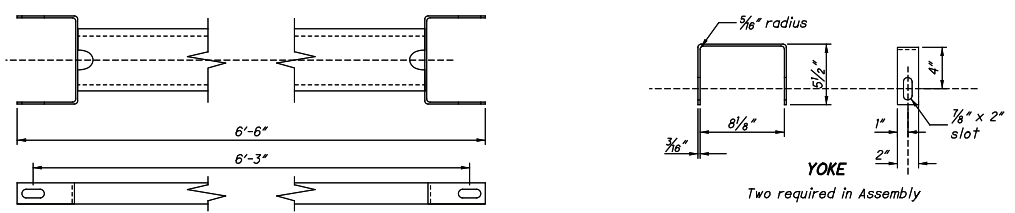
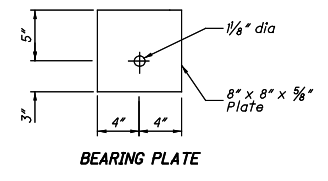
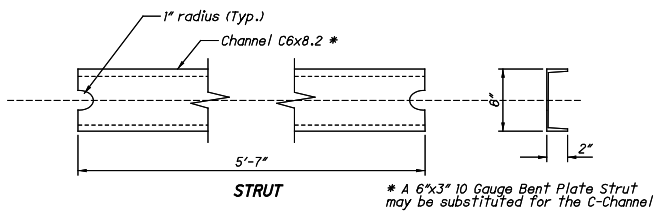
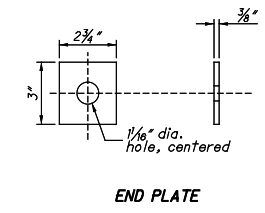
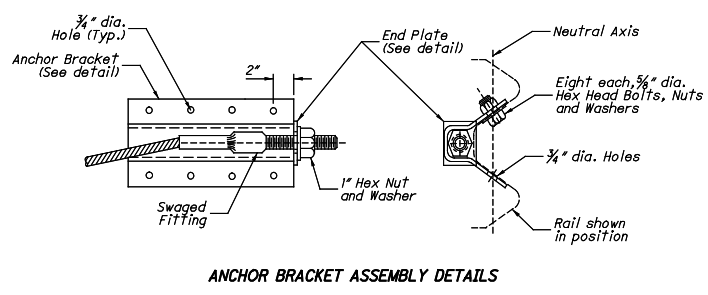
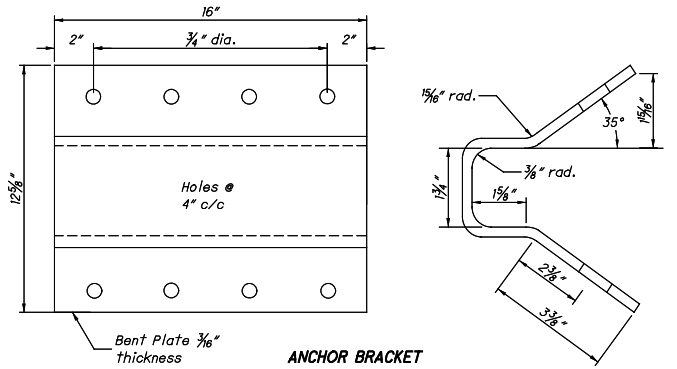
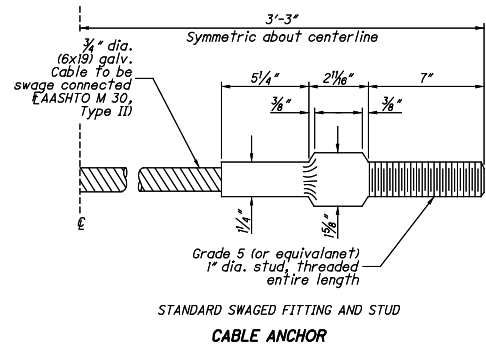
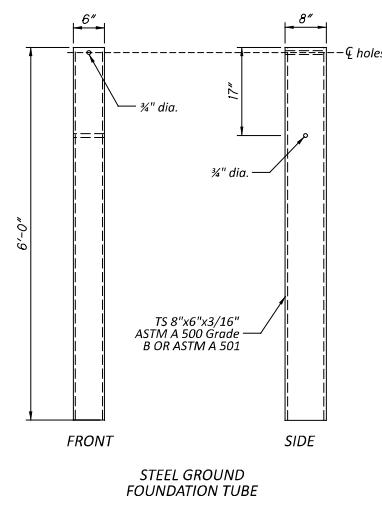
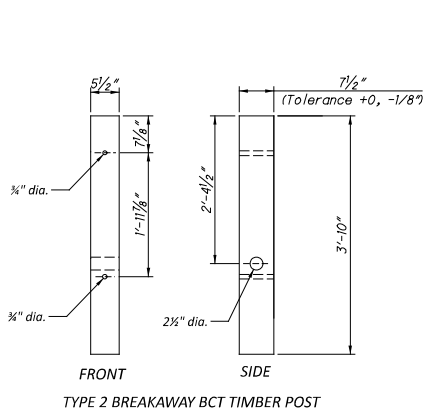
MATERIALS: See Sheet 2 for parts used on this anchor, including the Type 2 BCT Breakaway Posts, Steel Ground Foundation Tube, Bearing Plate, Cable Anchor, and Bracket Assembly. See MGS-2.1 for the Rounded W-Beam End Section.

Bearing Plate is ASTM A709 Grade 36. Steel Ground Foundation Tube shall be ASTM A500, Grade B, and meet CMS 707.10. All angles, channels and plates shall meet CMS 711.01. All structural steel shall be galvanized as specified in CMS 711.02. All bolt washers indicated are standard galvanized steel of the appropriate size.

For components on this anchor that are not detailed on SCD MGS-2.1, see part descriptions in the AASHTO/AGC/ARTBA Standardized Hardware Guide.

PAYMENT: All equipment, labor and materials, including the W-Beam Rounded End Section and the W-Beam Terminal Rail for the 12'-6" anchor assembly shall be included in the unit price bid for Item 606 - Anchor Assembly, MGS Type T, Each.

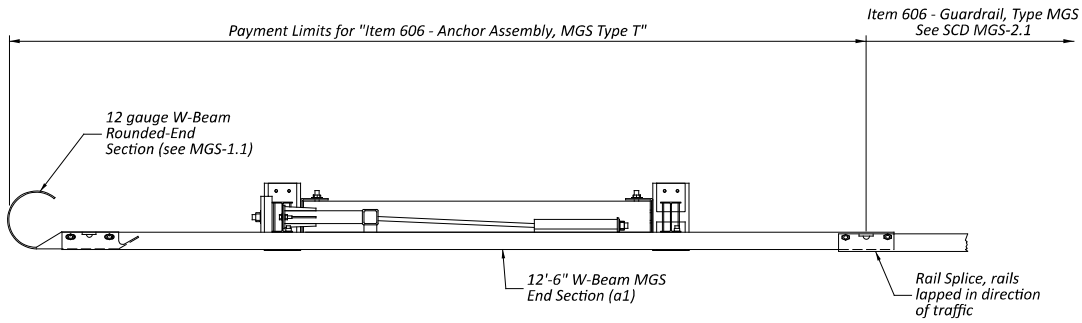




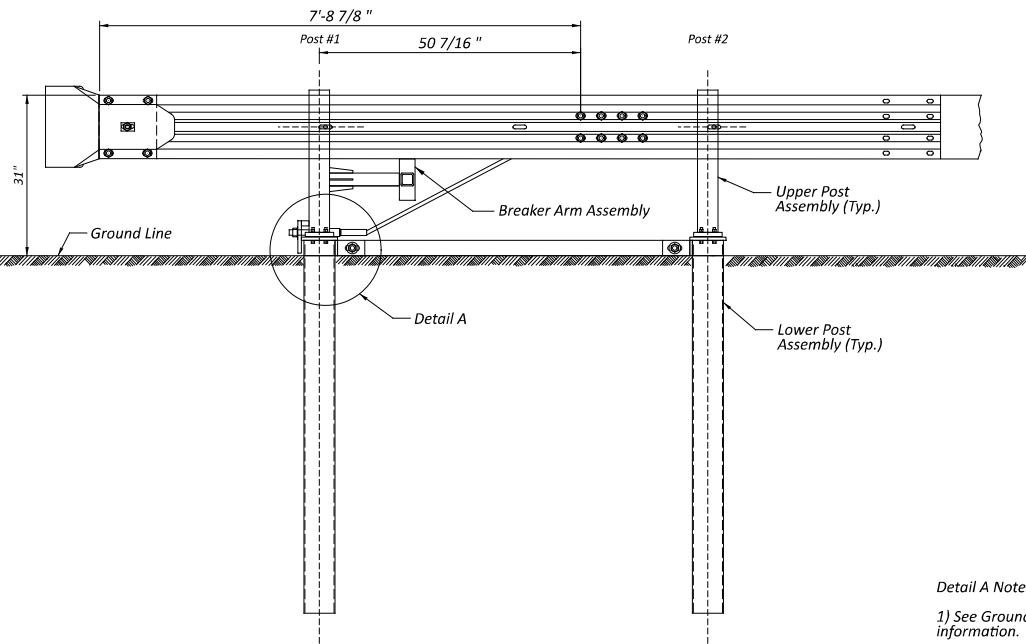
Channel legs shown down. For opposite hand, install Channel legs up.
 STRUT AND YOKE ASSEMBLY

THIS DRAWING REPLACES MGS-4.2 DATED 1-17-2025.

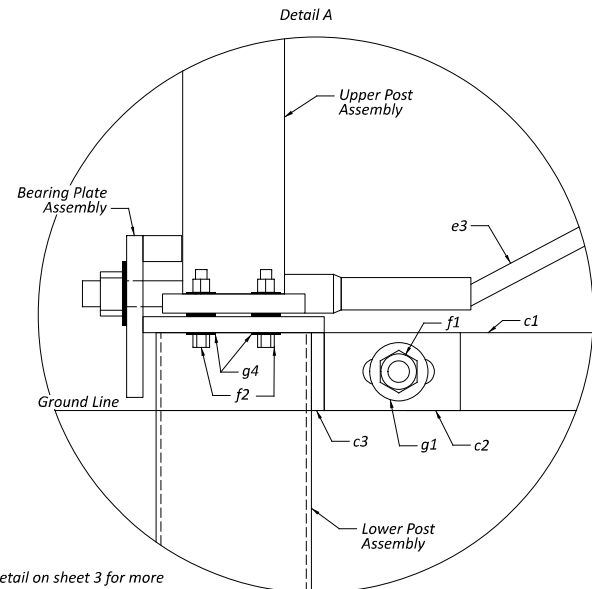
OFFICE OF ROADWAY ENGINEERING
REVISIONS
07-19-2013 01-17-2025 07-18-2025
STDS ENGINEER A. Holloway
STATE OF OHIO OFFICE OF ROADWAY ENGINEERING ADMINISTRATOR
Adam Koenig
STANDARD ROADWAY CONSTRUCTION DRAWING MIDWEST GUARDRAIL SYSTEM TYPE T ANCHOR ASSEMBLY (WOOD POST SYSTEM)
DESIGN AGENCY
SCD NUMBER MGS-4.2
SHEET TOTAL P.2 7



PLAN VIEW



ELEVATION VIEW



Detail A Notes:

- 1) See Ground Strut Connection Detail on sheet 3 for more information.
- 2) Part c3 is a spacer between part c2 and the lower post assembly.

NOTES

APPLICATION: Use Type T Anchor Assemblies on the trailing end of guardrail runs, located outside of the clear zone of opposing traffic. The assembly is 12'-6" long; post #1 of the Type T shall be set 25' beyond the trailing end of the hazard.

For termination requirements at driveways, and side road approaches and Terminals at Structures, see Location & Design Manual, Volume 1, Figure 603-3.

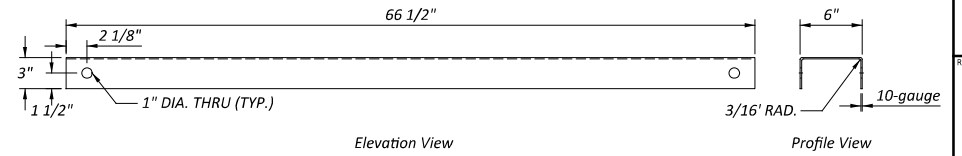
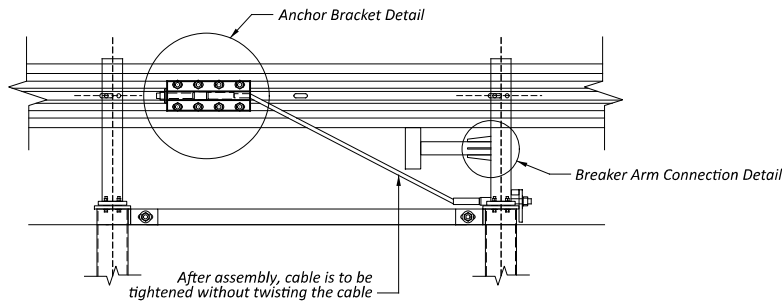
MATERIALS: See SCD MGS-1.1 for details for the Rounded W-Beam End Section. See sheet 6 for a bill of materials.

PAYMENT: All equipment, labor and materials, including the W-Beam Rounded End Section and the W-Beam Terminal Rail Section for the 12'-6" anchor assembly shall be included in the unit price bid for Item 606 - Anchor Assembly, MGS Type T, Each.

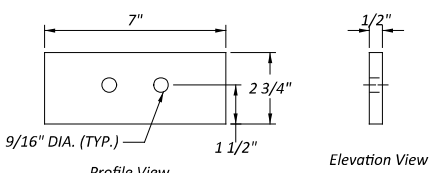




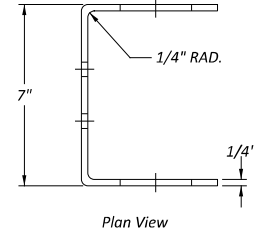
THIS DRAWING REPLACES MGS-4.2 DATED 1-17-2025.



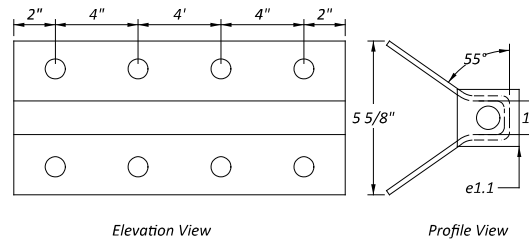
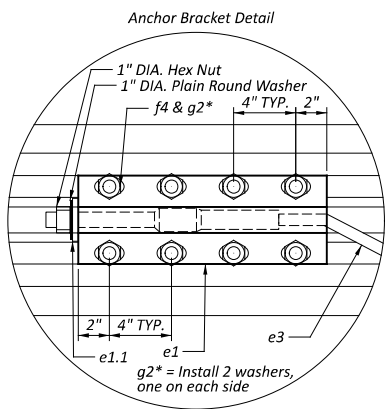
Ground Strut Channel (c1)



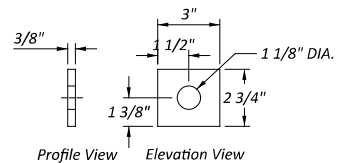
7" x 2 3/4" x 1/2" Steel Plate (c3)



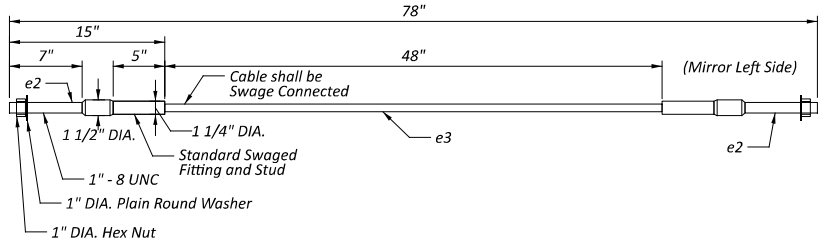
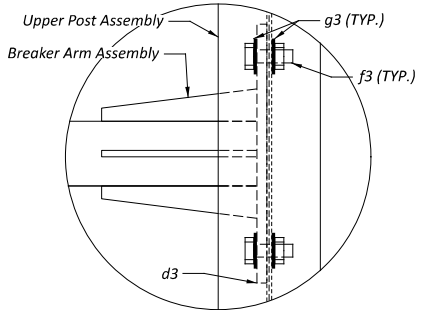
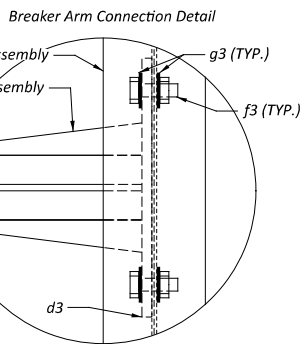
17" x 3" x 1/4" Bent Steel Plate (c2)



Anchor Bracket (e1)

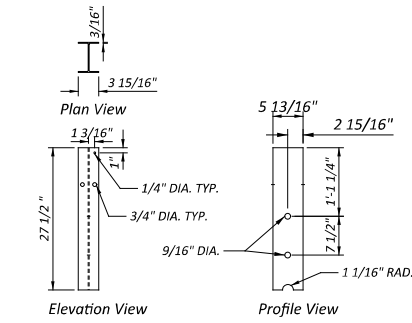
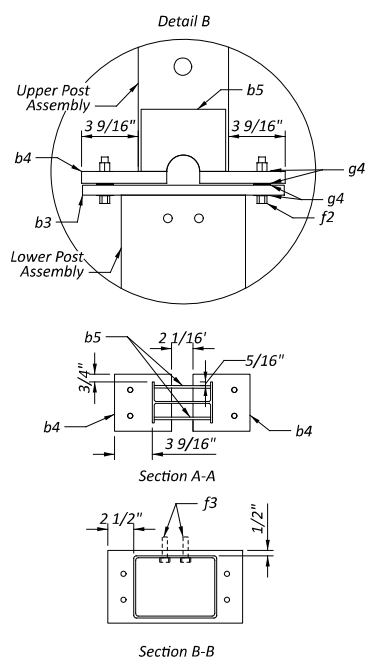
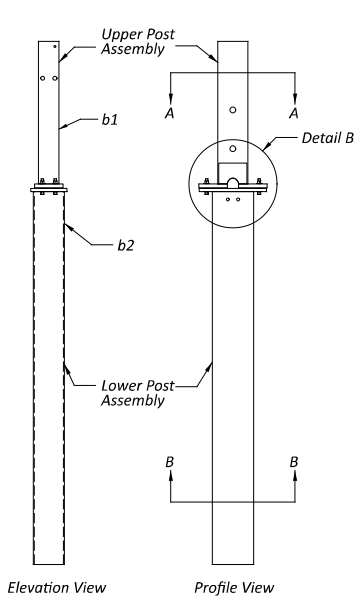


Anchor Bracket End Plate (e1.1)

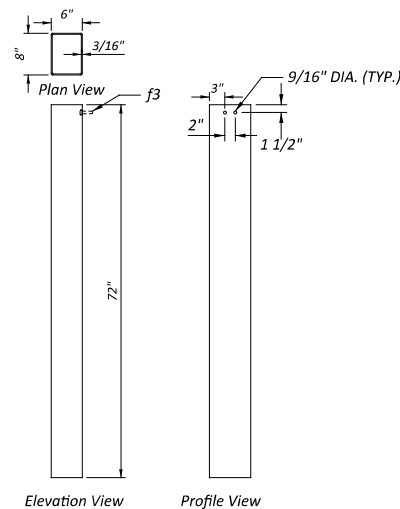


Cable Assembly (e2 & e3)

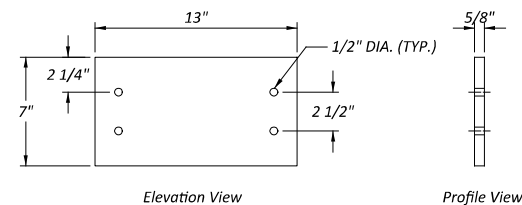
MGS-4.2



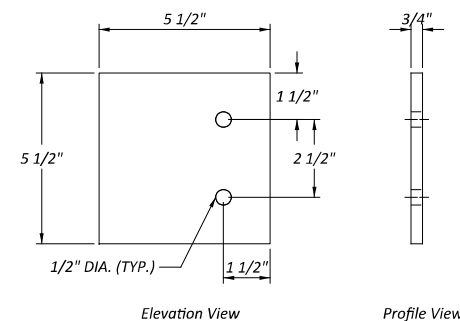
Upper Post (b1)



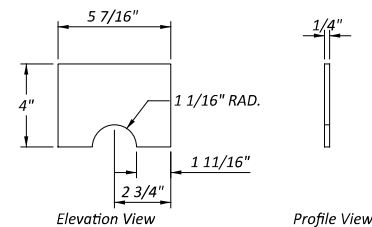
Foundation Tube (b2)



13" x 7" x 5/8" Steel Plate (b3)



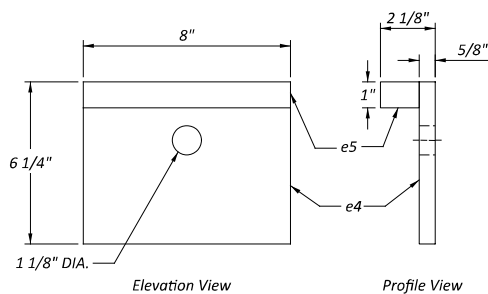
5 1/2" x 5 1/2" x 3/4" Steel Plate (b4)



5 7/16" x 4" x 1/4" Steel Plate (b5)

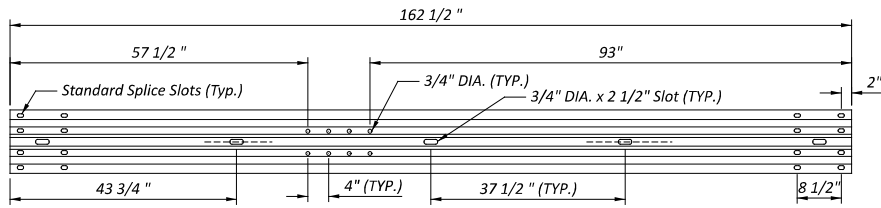
Notes:

- 1) Connection hardware hidden in Section A-A and Section B-B for clarity.
- 2) Lower post assembly hidden in Section A-A for clarity.
- 3) Vertical through-bolts (part f2) are to be torqued to approx. 60-75 ft-lb.

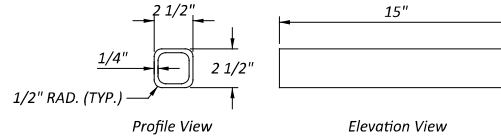


Bearing Plate Assembly (e4 & e5)

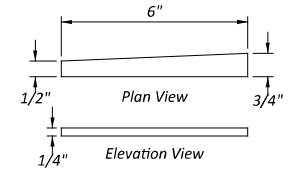




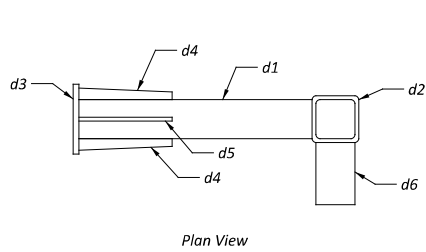
12'-6" W-Beam MGS End Section (a1)



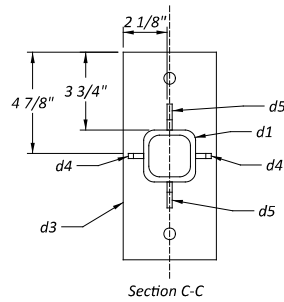
HSS 2 1/2" x 2 1/2" x 1/4",
15" Long Square Tube (d1)



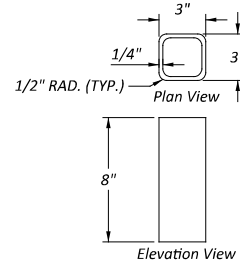
6" x 3/4" x 1/4" Gusset (d4)



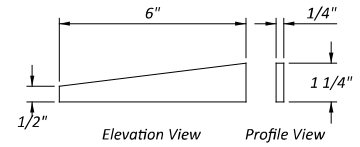
Plan View



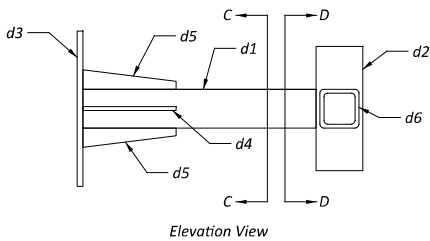
Section C-C



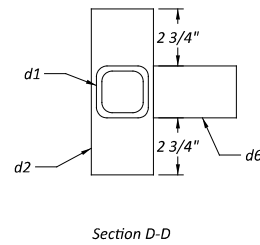
HSS 3" x 3" x 1/4",
8" Long Square Tube (d2)



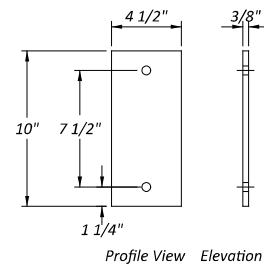
6" x 1 1/4" x 1/4" Gusset (d5)



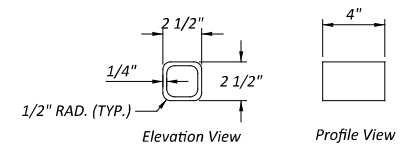
Elevation View



Section D-D



10" x 4 1/2" x 3/8" Plate (d3)



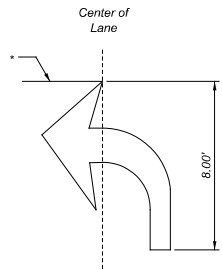
HSS 2 1/2" x 2 1/2" x 1/4",
4" Long Square Tube (d6)

Breaker Arm Assembly (d1, d2, d3, d4, d5, d6)

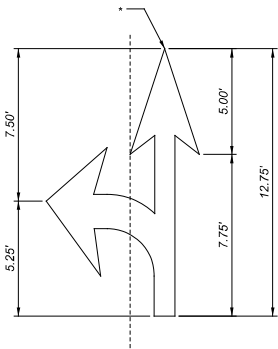


BILL OF MATERIALS (INCLUDED FOR REFERENCE)					
Part	Quantity (for reference)	Description	Material Spec.	Treatment Spec.	Hardware Guide
a1	1	12'-6" W-Beam MGS End Section	AASHTO M180	ASTM A123 or A653	-
-	1	12 gauge W-Beam Rounded End Section		See MGS-2.1	
b1	2	W6x8.5 or W6x9, 27 1/2" Long Steel Post	ASTM A992	-	-
b2	2	TS 8" x 6" x 3/16", 72" Long Foundation Tube	ASTM A500 Gr. B	-	-
b3	2	13" x 7" x 5/8" Steel Plate	ASTM A36	-	-
b4	4	5 1/2" x 5 1/2" x 3/4" Steel Plate	ASTM A36	-	-
b5	4	5 7/16" x 4" x 1/4" Steel Plate	ASTM A36	-	-
c1	1	66 1/2" x 11 3/4" x 10-gauge Bent Steel Channel Strut	ASTM A36	ASTM A123	-
c2	2	17" x 3" x 1/4" Bent Steel Plate	ASTM A36	ASTM A123	-
c3	2	7" x 2 3/4" x 1/2" Steel Plate	ASTM A36	ASTM A123	-
d1	1	HSS 2 1/2" x 2 1/2" x 1/4", 15" Long Square Tube	ASTM A500 Gr. B	-	-
d2	1	HSS 3" x 3" x 1/4", 8" Long Square Tube	ASTM A500 Gr. B	-	-
d3	1	10" x 4 1/2" x 3/8" Plate	ASTM A36	-	-
d4	2	6" x 3/4" x 1/4" Gusset	ASTM A36	-	-
d5	2	6" x 1 1/4" x 1/4" Gusset	ASTM A36	-	-
d6	1	HSS 2 1/2" x 2 1/2" x 1/4", 4" Long Square Tube	ASTM A500 Gr. B	-	-
e1	1	Anchor Bracket Assembly	ASTM A36	ASTM A123	FPA01
e1.1	1	Anchor Bracket End Plate	ASTM A36	ASTM A123	-
e2	2	Anchor Cable End Swaged Fitting	Fitting - ASTM A576 Gr. 1035 Stud - ASTM F568 Class C	Fitting - ASTM A153 Stud - ASTM A153 or B695	-
e3	1	Anchor Cable Assembly	-	-	FCA01
e4	1	8" x 6 1/4" x 5/8" Bearing Plate Base	ASTM A36	-	FPB01
e5	1	8" x 1 1/2" x 1" Bearing Plate Flange	ASTM A36	-	-
f1	2	7/8" - 9 UNC, 8 1/2" Long Hex Head Bolt and Nut	Bolt - ASTM A307 Gr. A or equivalent Nut - ASTM A563A or equivalent	ASTM A123 or B695 Class 55 or F2329	-
f2	8	7/16" - 14 UNC, 2 1/2" Long Fully Threaded Hex Top Bolt and Nut	Bolt - ASTM A449 or equivalent Nut - ASTM A563DH or equivalent	ASTM A123 or B695 Class 55 or F2329	FBX12b
f3	6	1/2" - 13 UNC, 2" Long Hex Bolt and Nut	ASTM A563A or equivalent	ASTM A123 or B695 Class 55 or F2329	FNX24a
f4	8	5/8" - 11 UNC, 1 1/2" Long Hex Head Bolt and Nut	Bolt - ASTM A307 Gr. A or equivalent Nut - ASTM A563A or equivalent	ASTM A123 or B695 Class 55 or F2329	FBX16a
-	2	5/8" - 11 UNC, 1 1/4" Long Guardrail Bolt and Nut	Bolt - ASTM A307 Gr. A Nut - ASTM A563A	ASTM A123 or B695 Class 55 or F2329	FBB01
-	2	1" Dia. Plain Round Washer	ASTM F844	ASTM A123 or A153 or F2329	FWC24a
g1	4	7/8" Dia. Plain Round Washer	ASTM F844	ASTM A123 or A153 or F2329	-
g2	16	5/8" Dia. Plain Round Washer	ASTM F844	ASTM A123 or A153 or F2329	FWC16a
g3	8	1/2" Dia. Plain Round Washer	ASTM F844	ASTM A123 or A153 or F2329	FWC14a
g4	32	7/16" Dia. Plain Round Washer	ASTM F844	ASTM A123 or A153 or F2329	FWC12a

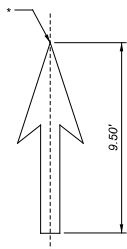




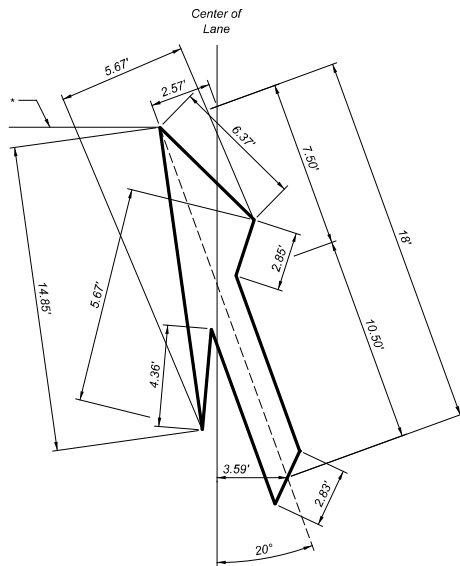
TURN ARROW
(Right Arrow Opposite)



TURN AND THROUGH ARROW
(Three-Headed Directional Arrows Can be Achieved by the Combination of Turn Arrows.)



THROUGH ARROW

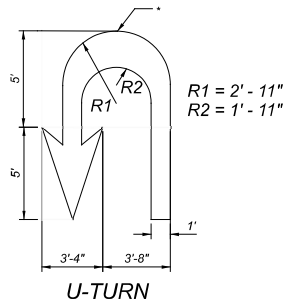


LANE-REDUCTION ARROW (RIGHT)
(For Left Lane, Use Mirror Image)

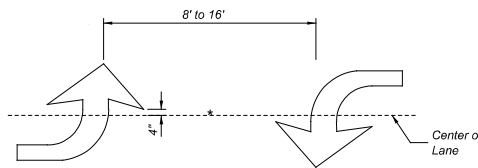
TABLE 1 - LANE-USE ARROWS

ARROW TYPE	SIZE (FT)	AREA (SQ FT)
Turn Arrow	8.00	17
Through Arrow	9.50	13
Turn and Through Arrow	12.75	28
Lane-Reduction Arrow	18.00	46

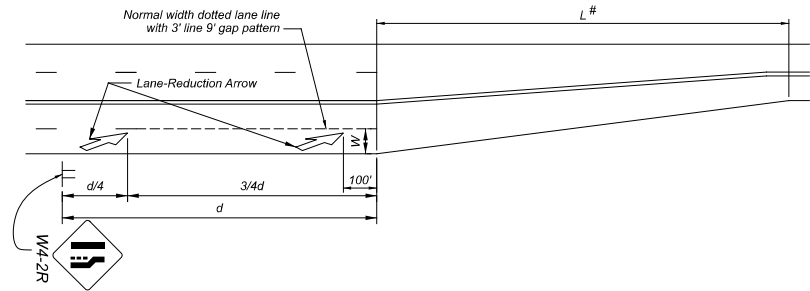
* - Indicates Station Reference Point



U-TURN



TWO-WAY LEFT-TURN ARROWS
(See Note 6)



Speed (S) (MPH)	Lane Width (W) (FT)	Taper Length (L) # (FT)	Advance Warning Distance (d) (FT)
25	12	125	325
30	12	180	460
35	12	245	565
40	12	320	670
45	12	540	775
50	12	600	885
55	12	660	990
60	12	720	1100
65	12	780	1200
70	12	840	1250

LANE-REDUCTION ARROW MARKING DETAIL
(See Note 8)

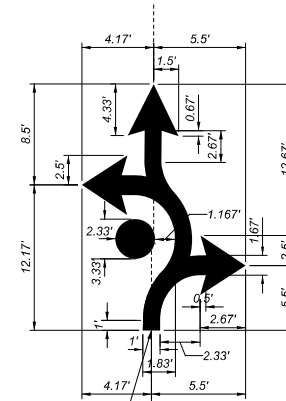
Taper Length (L) shown is for 12 foot lane width (W).
Use formula for other lane widths.

S - Posted, 85th-percentile or statutory speed, in MPH
W - Lane width or offset, in feet

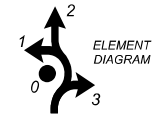
L - Taper length in feet for Speed < 45 MPH = $WS^2/60$

L - Taper length in feet for Speed > 45 MPH = WS

d - Advance Warning Distance, in feet



FISH-HOOK ARROW (ROUNDBOUTS)



OVERALL DIMENSIONS		
ELEMENTS INCLUDED	OVERALL WIDTH	OVERALL HEIGHT
1	6.5'	14.67'
1 & 2	6.5'	20.67'
1 & 3	9.67'	14.67'
1, 2 & 3	9.67'	20.67'
0 & 2*	4.5'	20.67'
0, 2 & 3*	7.67'	20.67'
2	3.833'	20.67'
2 & 3	7.0'	20.67'
3	6.0'	8.0'

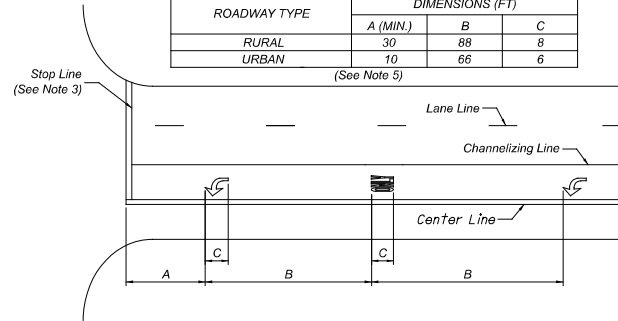
* THE DOT (ELEMENT 0) IS ONLY USED IN SYMBOLS FOR THE LEFTMOST LANE.



TABLE 4 - LANE USE MARKINGS

ROADWAY TYPE	DIMENSIONS (FT)		
	A (MIN.)	B	C
RURAL	30	88	8
URBAN	10	66	6

(See Note 5)



SHARED-USE PATH AND BIKEWAY MARKINGS

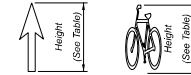
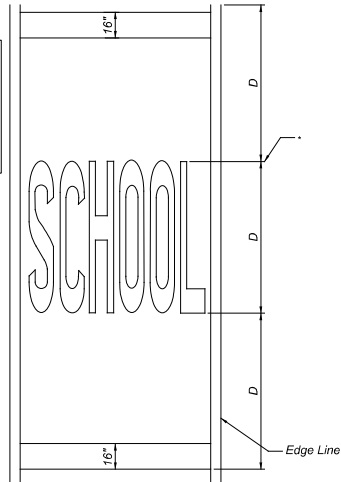
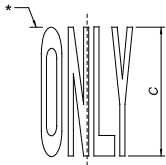


TABLE 1 - BIKEWAY MARKINGS

FACILITY TYPE	HEIGHT (FEET)	STRAIGHT ARROW	AREA (SQUARE FEET)			
			BIKE SYMBOL	HWY	XING	FXR SYMBOL
SHARED USE PATH	4	----	----	5	6	----
	10	----	----	----	----	16
BICYCLE LANE	6	6	5	----	16	----
ROADWAY-URBAN	6	5	5	----	16	----
ROADWAY-RURAL	8	7	7	----	21	----



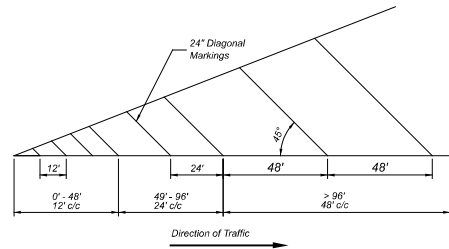
SCHOOL WORD MARKING
 (See Note 1)



ONLY WORD MARKING
 (See Note 4)

TABLE 3 - WORDS (SQ FT)

WORD	HEIGHT (C, D)		
	URBAN	RURAL	MULTI-LANE
ONLY (C)	17	23	N/A
SCHOOL (D)	27	37	90



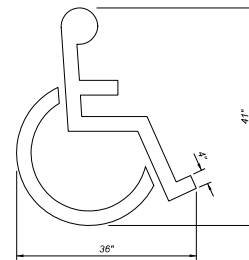
TYPICAL SPACING DETAIL FOR 24" DIAGONAL MARKINGS

(Chevron Markings, Including a Spacing Table, are Shown on SCD TC-72.20.)

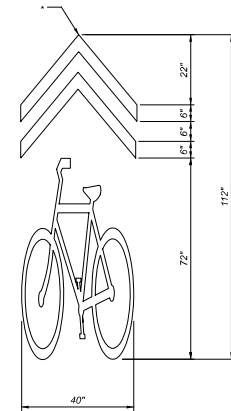
* - Indicates Station Reference Point

TABLE 2 - HANDICAP, BIKE & CHEVRON MARKINGS

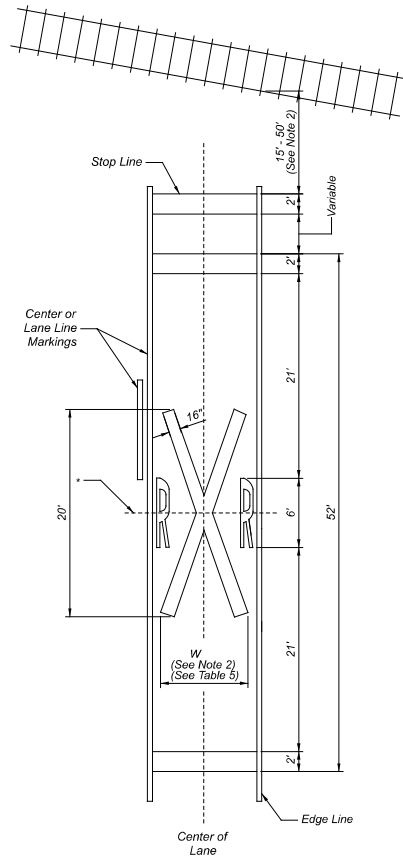
SYMBOL	HEIGHT (IN)	WIDTH (IN)	AREA (SQ FT)
HANDICAP	41	36	2.7
BIKE	72	40	16
CHEVRON	40	40	3.3 (.83 x 4)



HANDICAP SYMBOL MARKING




SHARED LANE MARKING
 (See Note 7)

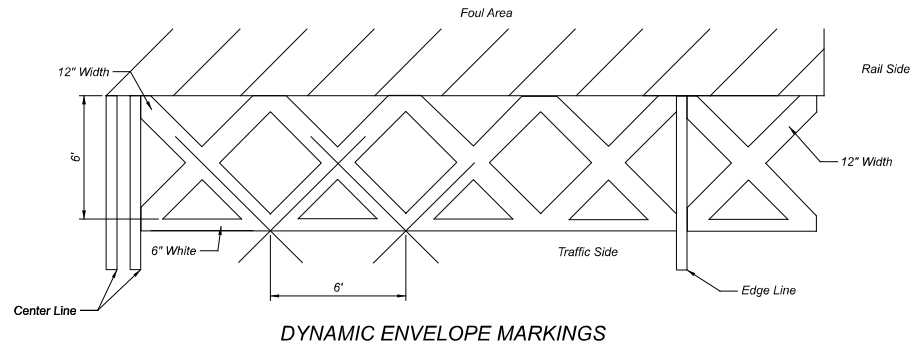


RAILROAD SYMBOL MARKING

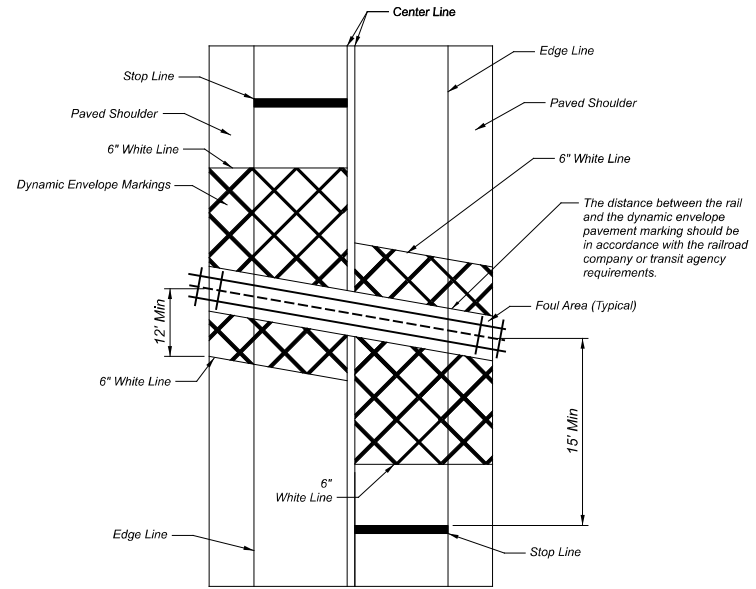
(See Note 2)

TABLE 5 - R X R SYMBOL

	WIDTH (W) (FT)	8	9	10	11	12
	AREA (SQ FT)		67	68	70	71



DYNAMIC ENVELOPE MARKINGS



DYNAMIC ENVELOPE AND DO NOT OCCUPY INTERSECTION MARKINGS LAYOUT



NOTES:

SCHOOL Marking

- 1A. The SCHOOL markings shall be installed on all paved approaches in advance of all School Zones.
- 1B. The SCHOOL markings should be placed at least 100' in advance of the School Zone. The preferred placement of the SCHOOL marking is adjacent to the School Zone Advance sign.
- 1C. On two-way, two-lane highways the following shall apply:
 - 1.) When the approach lane to the School Zone is 11' or more in width -
 - a.) The SCHOOL word marking and transverse lines shall be contained in, and centered in, the lane.
 - b.) The character height shall be 6' for urban areas and 8' for rural areas.
 - 2.) When the approach lane to the School Zone is less than 11' in width -
 - a.) One installation of the SCHOOL word marking and transverse lines shall extend across both lanes of traffic.
 - b.) The characters shall be 10' in height.
- 1D. On multi-lane approaches the following shall apply -
 - 1.) When the approach lanes to the School Zone are 11' or more in width -
 - a.) The SCHOOL word marking and transverse lines shall be contained in, and centered in, each lane. The character height shall be 6' for urban areas and 8' for rural areas.
 - 2.) When the approach lanes to the School Zone are less than 11' in width -
 - a.) One installation of the SCHOOL word marking shall extend to the width of two approach lanes.
 - b.) Transverse lines shall extend across all approach lanes of traffic.
 - c.) The characters shall be 10' in height.
- 1E. Center or lane lines shall not pass through the SCHOOL word marking.
- 1F. 6' and 8' high SCHOOL word marking shall be marked with 4" strokes.
10' high SCHOOL word marking shall be marked with 8" strokes.
- 1G. The area of the transverse lines varies with the width of the pavement; therefore, the area must be added to the value in Table 3 (sheet 2).

Railroad Crossing Markings

- 2A. On multi-lane approaches, markings shall be as follows -
 - a.) The RXR symbol shall be placed in each approach lane.
 - b.) Transverse lines used with the railroad symbols shall extend across all approach lanes.
- 2B. The railroad symbol should be located so that the Railroad Advance Warning (W10-1) sign is within the two transverse boundary lines of the railroad symbol.
- 2C. The stop line shall be located for best sight distance between 15' - 50' of the near edge of the tracks.
- 2D. The stop line shall be approximately 8' from a gate (if present).
- 2E. Width (W) of the "X" will vary according to the lane width.
- 2F. The height of the "R" shall be 6'.
- 2G. The area of the transverse lines and stop lines varies with the width of the pavement; therefore the area must be added to the value in Table 5 (sheet 3).
- 2H. Dynamic Envelope Markings consist of a 6-inch white channelizing line placed a minimum of 6-feet away and parallel to the nearest outside edge of rail at a highway-rail grade crossing. The Dynamic Envelope Markings also consists of 12-inch white diagonal markings arranged at 6-foot centers in a 6-foot by 6-foot "X" layout (sheet 3).

Stop Line Marking

- 3A. Except as specified in Notes 3B and 3C, the stop line should be placed as follows:
 - a.) The stop line should be placed where cross-corner vision is maximum.
 - b.) In no case shall the stop line be placed more than 30' or less than 4' from the nearest edge of the intersecting roadway.
 - c.) For normal intersections the maximum distance should be 10'.
- 3B. If a marked crosswalk is present the stop lines should be placed 4' in advance of, and parallel to, the nearest crosswalk line.
- 3C. For signalized intersections the stop line should be placed at a minimum distance of 40' from the nearest signal head.

ONLY Word Marking

- 4A. The ONLY word marking is optional.
- 4B. Where used, the spacing between ONLY and arrow markings should be based on Table 4 (sheet 2).
- 4C. When lane-use arrow markings are used and the ONLY marking is not, an additional lane-use arrow should be used in its place to retain the spacing as shown in Table 4 (sheet 2).

Lane-Use Arrow Markings

- 5A. Lane-use arrow markings are optional except where a through traffic lane(s) approaching an intersection becomes a mandatory turn lane(s).
- 5B. Where used, the spacing between markings should be based on Table 4 (sheet 2). However, based on the turn lane length, the spacing between the markings may be adjusted.

Two-Way Left-Turn Only (TWLTO) Arrows

- 6A. Arrow sets should be longitudinally spaced at intervals of:
 - a.) 500' - 1000' for speeds less than or equal to 40 mph.
 - b.) 1000' - 1500' for speeds over 40 mph
- 6B. In addition, an arrow set should be placed:
 - a.) 100' - 200' from the near edge of an intersecting roadway, or
 - b.) Inside both ends of TWLTO lanes.

Shared Lane Marking

- 7A. When chevron markings are used, its area must be added to the value of the bike symbol markings (see Table 2 on sheet 1).
- 7B. When used, the shared lane marking should be placed immediately after an intersection and spaced at intervals not greater than 250' thereafter.

Lane-Reduction Arrow Markings

- 8A. Lane-reduction arrow markings should be placed where a lane reduction transition occurs on a roadway as follows:
 - a.) Lane-reduction arrow markings may be placed for speeds of less than 45 mph, if determined to be appropriate based on engineering judgement. Lane-reduction arrow markings should be placed for speeds of 45 mph or over.
 - b.) Lane-reduction arrow markings may be placed in long acceleration lanes.
 - c.) Where lane-reduction arrows are used, they should be placed as follows:
 - i.) First lane-reduction arrow 100' in advance of the 'Begin Taper' point.
 - ii.) Second lane-reduction arrow placed at the 3/4d point.

Handicap Symbol Markings

- 9A. For the handicap symbol marking, a blue background and white border shall not be used.



STATE WAGE RATES

(2026)

Updated 04/21/2026

Prevailing Wage Determination Cover Letter

County:

Determination Date: 04-21-2026

Expiration Date: 07-19-2026

THE FOLLOWING PAGES ARE PREVAILING RATES OF WAGES ON PUBLIC IMPROVEMENTS FAIRLY ESTIMATED TO BE MORE THAN THE AMOUNT IN O.R.C. SEC. 4115.03 (b) (1) or (2), AS APPLICABLE.

Section 4115.05 provides, in part: "Where contracts are not awarded or construction undertaken within ninety days from the date of the establishment of the prevailing wages, there shall be a redetermination of the prevailing rate of wages before the contract is awarded." The expiration date of this wage schedule is listed above for your convenience only. This wage determination is not intended as a blanket determination to be used for all projects during this period without prior approval of this Department.

Section 4115.04, Ohio Revised Code provides, in part: "Such schedule of wages shall be attached to and made a part of the specifications for the work, and shall be printed on the bidding blanks where the work is done by contract..."

The contract between the letting authority and the successful bidder shall contain a statement requiring that mechanics and laborers be paid a prevailing rate of wage as required in Section 4115.06, Ohio Revised Code. The contractor or subcontractor is required to file with the contracting public authority upon completion of the project and prior to final payment therefore an affidavit stating that he has fully complied with Chapter 4115 of the Ohio Revised Code.

The wage rates contained in this schedule are the "Prevailing Wages" as defined by Section 4115.03, Ohio Revised Code (the basic hourly rates plus certain fringe benefits). These rates and fringes shall be a minimum to be paid under a contract regulated by Chapter 4115 of the Ohio Revised Code by contractors and subcontractors. The prevailing wage rates contained in this schedule include the effective dates and wage rates currently on file. In cases where future effective dates are not included in this schedule, modifications to the wage schedule will be furnished to the Prevailing Wage Coordinator appointed by the public authority as soon as prevailing wage rates increases are received by this office.

"There shall be posted in a prominent and accessible place on the site of work a legible statement of the Schedule of Wage Rates specified in the contract to the various classifications of laborers, workmen, and mechanics employed, said statement to remain posted during the life of such contract." Section 4115.07, Ohio Revised Code.

Apprentices will be permitted to work only under a bona fide apprenticeship program if such program exists and if such program is registered with the Ohio Apprenticeship Council.

Section 4115.071 provides that no later than ten days before the first payment of wages is due to any employee of any contractor or subcontractor working on a contract regulated by Chapter 4115, Ohio Revised Code, the contracting public authority shall appoint one of his own employees to act as the prevailing wage coordinator for said contract. The duties of the prevailing wage coordinator are outlined in Section 4115.071 of the Ohio Revised Code.

Section 4115.05 provides for an escalator in the prevailing wage rate. Each time a new rate is established, that rate is required to be paid on all ongoing public improvement projects.

A further requirement of Section 4115.05 of the Ohio Revised Code is: "On the occasion of the first pay date under a contract, the contractor shall furnish each employee not covered by a collective bargaining agreement or understanding between employers and bona fide organizations of Labor with individual written notification of the job classification to which the employee is assigned, the prevailing wage determined to be applicable to that classification, separated into the hourly rate of pay and the fringe payments, and the identity of the prevailing wage Coordinator appointed by the public authority. The contractor or subcontractor shall furnish the same notification to each affected employee every time the job classification of the employee is changed."

Work performed in connection with the installation of modular furniture may be subject to prevailing wage.

THIS PACKET IS NOT TO BE SEPARATED BUT IS TO REMAIN COMPLETE AS IT IS SUBMITTED TO YOU. (Reference guidelines and forms are included in this packet to be helpful in the compliance of the Prevailing Wage law.)

Prevailing Wage Rate Skilled Crafts

Name of Union: Bricklayer Local 23 Heavy Hwy (A)

Type of Rate: Commercial

Change #:
LCN01-2026ib

Craft:
Bricklayer

Effective Date:
3/25/2026

Effective Date:
3/25/2026

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason Bricklayer Sewer Water Works A	\$34.56		\$10.20	\$9.68	\$0.56	\$0.00	\$1.30	\$0.00	\$0.00	\$0.00	\$56.30	\$73.58
Apprentice	BHR	Percent										
1st year	\$24.19	\$70.00	\$10.20	\$9.68	\$0.56	\$0.00	\$1.30	\$0.00	\$0.00	\$0.00	\$45.93	\$58.03
2nd year	\$27.65	\$80.00	\$10.20	\$9.68	\$0.56	\$0.00	\$1.30	\$0.00	\$0.00	\$0.00	\$49.39	\$63.21
3rd year	\$31.10	\$90.00	\$10.20	\$9.68	\$0.56	\$0.00	\$1.30	\$0.00	\$0.00	\$0.00	\$52.84	\$68.39

(*)Special Calculation Note :

This rate is not for building construction.

This rate applies only to the Cement Masons. All other Bricklaying, PCC, Stone, Tile, Marble, Refractory, Industrial and all other applicable work performed will be performed under the applicable rates for those contracts.

Ratio :

- 3 Journeymen to 1 Apprentice
- 6 Journeymen to 2 Apprentice
- 9 Journeymen to 3 Apprentice
- 12 Journeymen to 4 Apprentice
- 15 Journeymen to 5 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Adams, Allen, Ashland, Ashtabula, Athens, Auglaize, Belmont, Brown, Butler, Carroll, Champaign, Clark, Clermont, Clinton, Columbiana, Coshocton, Crawford, Cuyahoga, Darke, Defiance, Delaware, Erie, Fairfield, Fayette, Franklin, Fulton, Gallia, Geauga, Greene, Guernsey, Hamilton, Hancock, Hardin, Harrison, Henry, Highland, Hocking, Holmes, Huron, Jackson, Jefferson, Knox, Lake, Lawrence, Licking, Logan, Lorain, Lucas, Madison, Mahoning, Marion, Medina, Meigs, Mercer, Miami, Monroe, Montgomery, Morgan, Morrow, Muskingum, Noble, Ottawa, Paulding, Perry, Pickaway, Pike, Portage, Preble, Putnam, Richland, Ross, Sandusky, Scioto, Seneca, Shelby, Stark, Summit, Trumbull, Tuscarawas, Union, Van Wert, Vinton, Warren, Washington, Wayne

Special Jurisdictional Note :

Details :

Bricklayer Local 23 Heavy Hwy (A): Highway Construction, Sewer, Waterworks And Utility Construction, Industrial & Building Site Heavy Construction, Airport Construction Or Railroad Construction Work.

Bricklayer Local 23 Heavy Hwy (B): Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work ,Pollution Control, Sewer Plant, Waste Plant, & Water Treatment Facilities, Construction.

Prevailing Wage Rate Skilled Crafts

Name of Union: Carpenter Hev Hwy Zone NHH C1-B

Type of Rate: Commercial

Change #:
LCN01-2025ib

Craft:
Carpenter

Effective Date:
6/18/2025

Effective Date:
6/18/2025

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Carpenter	\$38.57		\$8.90	\$10.98	\$0.72	\$0.00	\$3.92	\$0.14	\$0.00	\$0.00	\$63.23	\$82.52
Apprentice	BHR	Percent										
1st 3 Months	\$23.14	\$60.00	\$8.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$32.04	\$43.61
2nd 3 Months	\$23.14	\$60.00	\$8.90	\$0.00	\$0.72	\$0.00	\$3.92	\$0.14	\$0.00	\$0.00	\$36.82	\$48.39
2nd 6 Months	\$25.07	\$65.00	\$8.90	\$0.00	\$0.72	\$0.00	\$3.92	\$0.14	\$0.00	\$0.00	\$38.75	\$51.29
3rd 6 Months	\$27.00	\$70.00	\$8.90	\$0.00	\$0.72	\$0.00	\$3.92	\$0.14	\$0.00	\$0.00	\$40.68	\$54.18
4th 6 Months	\$28.93	\$75.00	\$8.90	\$0.00	\$0.72	\$0.00	\$3.92	\$0.14	\$0.00	\$0.00	\$42.61	\$57.07
5th 6 Months	\$30.86	\$80.00	\$8.90	\$8.78	\$0.72	\$0.00	\$3.92	\$0.14	\$0.00	\$0.00	\$53.32	\$68.74
6th 6 Months	\$32.78	\$85.00	\$8.90	\$9.33	\$0.72	\$0.00	\$3.92	\$0.14	\$0.00	\$0.00	\$55.79	\$72.19
7th 6 Months	\$34.71	\$90.00	\$8.90	\$9.88	\$0.72	\$0.00	\$3.92	\$0.14	\$0.00	\$0.00	\$58.27	\$75.63
8th 6 Months	\$36.64	\$95.00	\$8.90	\$10.43	\$0.72	\$0.00	\$3.92	\$0.14	\$0.00	\$0.00	\$60.75	\$79.07

(*)Special Calculation Note :

Other: Training

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Ashtabula, Cuyahoga, Geauga, Lake

Special Jurisdictional Note :

Details :

Any construction work as performed within the definitions listed here below, all of which, taken together are "Heavy-Highway Construction" work: "HIGHWAY CONSTRUCTION" work is defined as work performed to provide a facility to accommodate vehicular or pedestrian traffic and includes, but is not limited to, the construction of all streets, roads, expressways, turnpikes, bridges, drainage structures, grade separations, parking lots, rest areas, alleys, sidewalks, guardrails, fences, and sound barriers, but shall not include construction of buildings. "AIRPORT CONSTRUCTION" work is defined as including site preparation, grading, paving, drainage, fences, sidewalks, driveways, parking areas and similar work incidental to the construction of airfields but shall not include the construction of buildings. "HEAVY CONSTRUCTION" work is defined as including, but not limited to grade separations, foundations (does not include building foundations), abutments, retaining walls, shafts, tunnels, subways, elevators, drainage projects, flood control projects, reclamation projects, reservoirs, water supply projects, water development projects, hydro-electric development, utility transmission lines, including right-of-way clearing, locks, dams, dikes, levees, revetments, channels, channel cutoffs, intakes, dredging projects, jetties, breakwater, docks, harbors; and all municipal and utility construction except construction classified as building construction. "RAILROAD CONSTRUCTION" work is defined as including, grading, drainage, placing of rails, crossties, ballast and the construction of bridges, and other incidentals for railroads, street railways construction projects and rapid transit system projects, but shall not include the construction of buildings. "SEWER WATERWORKS AND UTILITY CONSTRUCTION" work is defined as including construction of all storm sewers, sanitary sewers, supplying and distributing waterlines, gas lines, telephone and television conduit, underground electrical lines, and similar utility construction. Main waterline and trunk sewers connecting water works and/or sewage disposal plants are included within this definition. "SUPPORTIVE EXCAVATION AND DEEP FOUNDATIONS" work is all driven and drilled foundations within the building site. "POWER PLANT SITE" work is defined as all work which is inside the property line, but outside the actual building construction. Such work shall include, but is not limited to, the grading and installation of sewer lines, drainage lines, gas lines, telephone and television conduit, underground electrical lines and similar utility construction, parking lots, bridges, roads, streets, sidewalks, reservoirs, ash pits, storage tanks, ramps and other such construction work performed on the work site, but shall not include the actual excavation for the buildings, foundations or footers or construction of the buildings. "POLLUTION CONTROL, SEWAGE PLANT, WASTE PLANT AND WATER TREATMENT FACILITIES CONSTRUCTION" WORK shall be all work in construction of pumping stations, waste and sewage disposal plants, incinerator plants, water treatment plants, filtration plants, solid waste disposal and similar pollution control facilities. "SOLAR & WIND FARM" WORK is considered "HEAVY CONSTRUCTION" and includes all work in the construction of solar fields/farms and wind fields/farms (not installations on buildings).

Prevailing Wage Rate Skilled Crafts

Name of Union: Carpenter Pile Driver Hev Hwy Zone NHH P2-B

Type of Rate: Commercial

Change #:
LCN01-2025ib

Craft:
Carpenter

Effective Date:
6/18/2025

Effective Date:
6/18/2025

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Carpenter Pile Driver	\$36.34		\$8.85	\$11.33	\$0.72	\$0.00	\$6.48	\$0.19	\$0.00	\$0.00	\$63.91	\$82.08
Diver	\$54.51		\$8.85	\$11.33	\$0.72	\$0.00	\$6.48	\$0.19	\$0.00	\$0.00	\$82.08	\$109.34
Certified Welder	\$37.39		\$8.85	\$11.33	\$0.72	\$0.00	\$6.48	\$0.19	\$0.00	\$0.00	\$64.96	\$83.66
Apprentice	BHR	Percent										
1st 6 months	\$21.80	\$60.00	\$8.85	\$11.33	\$0.72	\$0.00	\$6.48	\$0.19	\$0.00	\$0.00	\$49.37	\$60.28
2nd 6 months	\$23.62	\$65.00	\$8.85	\$11.33	\$0.72	\$0.00	\$6.48	\$0.19	\$0.00	\$0.00	\$51.19	\$63.00
3rd 6 months	\$25.44	\$70.00	\$8.85	\$11.33	\$0.72	\$0.00	\$6.48	\$0.19	\$0.00	\$0.00	\$53.01	\$65.73
4th 6 months	\$27.26	\$75.00	\$8.85	\$11.33	\$0.72	\$0.00	\$6.48	\$0.19	\$0.00	\$0.00	\$54.83	\$68.45
5th 6 months	\$29.07	\$80.00	\$8.85	\$11.33	\$0.72	\$0.00	\$6.48	\$0.19	\$0.00	\$0.00	\$56.64	\$71.18
6th 6 months	\$30.89	\$85.00	\$8.85	\$11.33	\$0.72	\$0.00	\$6.48	\$0.19	\$0.00	\$0.00	\$58.46	\$73.90
7th 6 months	\$32.71	\$90.00	\$8.85	\$11.33	\$0.72	\$0.00	\$6.48	\$0.19	\$0.00	\$0.00	\$60.28	\$76.63
8th 6 months	\$34.52	\$95.00	\$8.85	\$11.33	\$0.72	\$0.00	\$6.48	\$0.19	\$0.00	\$0.00	\$62.09	\$79.35

(*)Special Calculation Note :

*Other is Training

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Ashland, Ashtabula, Cuyahoga, Erie, Geauga, Huron, Lake, Lorain, Medina, Portage, Richland, Summit

Special Jurisdictional Note :

Details :

Pile Drivers duties shall include but not limited to: Pile driving, milling, fashioning, joining assembling, erecting, fastening, or dismantling of all material of wood, plastic, metal, fiber, cork and composition and all other substitute materials: pile driving, cutting, fitting and placing of lagging, and the handling, cleaning, erecting, installing and dismantling of machinery, equipment and erecting pre-engineered metal buildings. Pile Drivers work but not limited to: unloading, assembling, erection, repairs, operation, signaling, dismantling and reloading all equipment that is used for pile driving including pile butts is defined as sheeting or scrap piling. Underwater work that may be required in connection with the installation of piling. The driver and his tender work as a team and shall arrive at their own financial arrangements with the contractor. Any configuration of wood, steel, concrete or composite that is jetted, driven or vibrated onto the ground by conventional pile driving equipment for the purpose of supporting a future load that may be permanent or temporary. The construction of all wharves and docks, including the fabrication and installation of floating docks. Driving bracing, plumbing, cutting off and capping of all piling whether wood, metal, pipe piling or composite, loading, unloading, erecting, framing, dismantling, moving and handling of pile driving equipment piling used in the construction and repair of all wharves, docks, piers, trestles, caissons, cofferdams and erection of all sea walls and breakwaters. All underwater and marine work on bulkheads, wharves, docks, shipyards, caissons, piers, bridges, pipeline, work, viaducts, marine cable and trestles, as well as salvage and reclamation work where divers are employed. Rate shall include carpenters, acoustic and ceiling installers, drywall installers, pile drivers and floorlayers.

Prevailing Wage Rate Skilled Crafts

Name of Union: Cement Mason Local 404 Hev Hwy

Type of Rate: Commercial

Change #:
LCN01-2025ib

Craft:
Cement Mason

Effective Date:
5/1/2025

Effective Date:
5/1/2025

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason	\$36.29		\$9.20	\$7.85	\$0.75	\$0.00	\$3.00	\$0.07	\$0.00	\$0.00	\$57.16	\$75.31
Apprentice	BHR	Percent										
1st Year	\$25.40	\$70.00	\$9.20	\$7.85	\$0.75	\$0.00	\$3.00	\$0.07	\$0.00	\$0.00	\$46.27	\$58.97
2nd Year	\$29.03	\$80.00	\$9.20	\$7.85	\$0.75	\$0.00	\$3.00	\$0.07	\$0.00	\$0.00	\$49.90	\$64.42
3rd Year	\$32.66	\$90.00	\$9.20	\$7.85	\$0.75	\$0.00	\$3.00	\$0.07	\$0.00	\$0.00	\$53.53	\$69.86
4th Year	\$34.48	\$95.00	\$9.20	\$7.85	\$0.75	\$0.00	\$3.00	\$0.07	\$0.00	\$0.00	\$55.35	\$72.58

(*)Special Calculation Note :

Other: International Training Fund

Ratio :

1 Journeyman to 1 Apprentice 2 Journeymen to 1 Apprentice thereafter

Jurisdiction (* denotes special jurisdictional note) :

Ashtabula, Cuyahoga, Geauga, Lake, Lorain

Special Jurisdictional Note :

Details :

Highway Construction, Sewer, Waterworks And Utility Construction, Industrial & Building Site, Heavy Construction, Airport Construction Or Railroad Construction Work, Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work, Pollution Control, Sewer Plant, Waste & Water Plant, Water Treatment Facilities Construction.

Prevailing Wage Rate Skilled Crafts

Name of Union: Electrical Local 71 Outside Utility Power

Type of Rate: Commercial

Change #:
LCN01-2026ib

Craft:
Electrical

Effective Date:
1/7/2026

Effective Date:
1/7/2026

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Electrical Lineman	\$52.03		\$7.50	\$1.56	\$0.52	\$0.00	\$12.49	\$1.00	\$0.00	\$0.00	\$75.10	\$101.12
Substation Technician	\$52.03		\$7.50	\$1.56	\$0.50	\$0.00	\$12.49	\$1.00	\$0.00	\$0.00	\$75.08	\$101.09
Cable Splicer	\$54.50		\$7.50	\$1.64	\$0.55	\$0.00	\$13.08	\$1.00	\$0.00	\$0.00	\$78.27	\$105.52
Operator A	\$46.61		\$7.50	\$1.40	\$0.47	\$0.00	\$11.19	\$1.00	\$0.00	\$0.00	\$68.17	\$91.47
Operator B	\$41.17		\$7.50	\$1.23	\$0.41	\$0.00	\$9.87	\$1.00	\$0.00	\$0.00	\$61.18	\$81.77
Operator C	\$33.00		\$7.50	\$0.99	\$0.33	\$0.00	\$7.92	\$1.00	\$0.00	\$0.00	\$50.74	\$67.24
Groundman 0-12 months Exp	\$26.02		\$7.50	\$0.78	\$0.26	\$0.00	\$6.24	\$1.00	\$0.00	\$0.00	\$41.80	\$54.81
Groundman 0-12 months Exp w/CDL	\$28.62		\$7.50	\$0.86	\$0.29	\$0.00	\$6.87	\$1.00	\$0.00	\$0.00	\$45.14	\$59.45
Groundman 1 yr or more	\$28.62		\$7.50	\$0.86	\$0.29	\$0.00	\$6.87	\$1.00	\$0.00	\$0.00	\$45.14	\$59.45
Groundman 1 yr or more w/CDL	\$33.82		\$7.50	\$1.01	\$0.34	\$0.00	\$8.12	\$1.00	\$0.00	\$0.00	\$51.79	\$68.70
Equipment Mechanic A	\$41.17		\$7.50	\$1.23	\$0.41	\$0.00	\$9.87	\$1.00	\$0.00	\$0.00	\$61.18	\$81.77
Equipment Mechanic B	\$37.09		\$7.50	\$1.11	\$0.37	\$0.00	\$8.90	\$1.00	\$0.00	\$0.00	\$55.97	\$74.52
Equipment Mechanic C	\$33.00		\$7.50	\$0.99	\$0.33	\$0.00	\$7.92	\$1.00	\$0.00	\$0.00	\$50.74	\$67.24
Line Truck w/auger	\$36.40		\$7.50	\$1.09	\$0.36	\$0.00	\$8.71	\$1.00	\$0.00	\$0.00	\$55.06	\$73.26
Apprentice	BHR	Percent										
1st 1000 hrs	\$31.22	\$60.00	\$7.50	\$0.94	\$0.31	\$0.00	\$7.49	\$1.00	\$0.00	\$0.00	\$48.46	\$64.07
2nd 1000 hrs	\$33.82	\$65.00	\$7.50	\$1.01	\$0.34	\$0.00	\$8.12	\$1.00	\$0.00	\$0.00	\$51.79	\$68.70
3rd 1000 hrs	\$36.42	\$70.00	\$7.50	\$1.09	\$0.36	\$0.00	\$8.74	\$1.00	\$0.00	\$0.00	\$55.11	\$73.32

4th 1000 hrs	\$39.02	\$75.00	\$7.50	\$1.17	\$0.39	\$0.00	\$9.37	\$1.00	\$0.00	\$0.00	\$58.45	\$77.96
5th 1000 hrs	\$41.62	\$80.00	\$7.50	\$1.25	\$0.44	\$0.00	\$9.99	\$1.00	\$0.00	\$0.00	\$61.80	\$82.61
6th 1000 hrs	\$44.23	\$85.00	\$7.50	\$1.33	\$0.44	\$0.00	\$10.61	\$1.00	\$0.00	\$0.00	\$65.11	\$87.22
7th 1000 hrs	\$46.83	\$90.00	\$7.50	\$1.40	\$0.47	\$0.00	\$11.24	\$1.00	\$0.00	\$0.00	\$68.44	\$91.86

(*)Special Calculation Note :

Other: Health Reimbursement Account

Ratio :

(1) Journeyman Lineman to (1) Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Adams, Ashland, Ashtabula, Athens, Auglaize, Belmont, Brown, Butler, Carroll, Champaign, Clark, Clermont, Clinton, Columbiana, Coshocton, Crawford, Cuyahoga, Darke, Delaware, Fairfield, Fayette, Franklin, Gallia, Geauga, Greene, Guernsey, Hamilton, Harrison, Highland, Hocking, Holmes, Jackson, Jefferson, Knox, Lake, Lawrence, Licking, Logan, Lorain, Madison, Mahoning, Marion, Medina, Meigs, Mercer, Miami, Monroe, Montgomery, Morgan, Morrow, Muskingum, Noble, Perry, Pickaway, Pike, Portage, Preble, Richland, Ross, Scioto, Shelby, Stark, Summit, Trumbull, Tuscarawas, Union, Vinton, Warren, Washington, Wayne

Special Jurisdictional Note :

Details :

Operator "A": John Henry Rock Drill, D-6 (or equivalent) and above, Trackhoe Digger, (320 Track excavator), Cranes (greater than 25 tons and less than 45 tons).
 Operator "B": Cranes (greater than 6 tons and up to 25 tons), Backhoes, Road Tractor, Dozer up to D-5, Pressure Digger- wheeled or tracked, all Tension wire Stringing equipment.
 Operator "C": Trench, Backhoe, Riding type vibratory Compactor, Ground Rod Driver, Boom Truck (6 ton & below), Skid Steer Loaders, Material Handler.

Prevailing Wage Rate Skilled Crafts

Name of Union: Ironworker Local 17

Type of Rate: Commercial

Change #:
LCN01-2020fb

Craft:
Ironworker

Effective Date:
12/24/2020

Effective Date:
12/24/2020

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Ironworker	\$33.83		\$7.94	\$10.00	\$0.67	\$2.10	\$4.50	\$0.00	\$0.00	\$0.00	\$59.04	\$75.96
Apprentice	BHR	Percent										
1st 6 Months	\$16.92	\$50.00	\$7.94	\$10.00	\$0.67	\$2.10	\$4.50	\$0.00	\$0.00	\$0.00	\$42.13	\$50.58
2nd 6 Months	\$18.61	\$55.00	\$7.94	\$10.00	\$0.67	\$2.10	\$4.50	\$0.00	\$0.00	\$0.00	\$43.82	\$53.12
2nd Year 1st 6 Months	\$23.68	\$70.00	\$7.94	\$10.00	\$0.67	\$2.10	\$4.50	\$0.00	\$0.00	\$0.00	\$48.89	\$60.73
2nd Year 2nd 6 Months	\$25.37	\$75.00	\$7.94	\$10.00	\$0.67	\$2.10	\$4.50	\$0.00	\$0.00	\$0.00	\$50.58	\$63.27
3rd Year 1st 6 Months	\$27.06	\$80.00	\$7.94	\$10.00	\$0.67	\$2.10	\$4.50	\$0.00	\$0.00	\$0.00	\$52.27	\$65.81
3rd Year 2nd 6 Months	\$28.76	\$85.00	\$7.94	\$10.00	\$0.67	\$2.10	\$4.50	\$0.00	\$0.00	\$0.00	\$53.97	\$68.34
4th Year 1st 6 Months	\$30.45	\$90.00	\$7.94	\$10.00	\$0.67	\$2.10	\$4.50	\$0.00	\$0.00	\$0.00	\$55.66	\$70.88
4th Year 2nd 6 Months	\$32.14	\$95.00	\$7.94	\$10.00	\$0.67	\$2.10	\$4.50	\$0.00	\$0.00	\$0.00	\$57.35	\$73.42

(*)Special Calculation Note :

No special calculations for this skilled craft wage rate are required at this time.

Ratio :

4 Journeymen to 1 Apprentice on Structural Work 3 Journeymen to 1 Apprentice on Rod Work 2 Journeymen to 1 Apprentice on Finishing, Steel Sash, Stairway and Ornamental Work 1 Apprentice for every Sheeting Gang 1 Journeymen to 2 Apprentice Roadway Signage and Sound Barriers 2 Journeymen to 2 Apprentice Unloading and Erection of Light Gauge Metal Trusses

Jurisdiction (* denotes special jurisdictional note) :

Ashtabula, Cuyahoga, Erie, Geauga, Huron, Lake, Lorain, Medina, Portage, Summit

Special Jurisdictional Note :

West Boundary Line :Sandusky, Ohio: Boundary lines between Local 17 & Local 55 are as follows: Columbus Ave north to Sandusky Bay (and/or Lake Erie): Columbus Ave South to present Route 4: Route 4 South to present Route 99: from Route 99 south to old Route 224-all territory to the west of the boundary line to be the jurisdiction of Local 55.All territory to the East of the boundary line to be the jurisdiction of Local 17.Kelly's Island to be within jurisdiction of Local 17.All bridges,tunnels,viaducts,etc, relative to these boundary lines shall be the jurisdiction of Local 17 South Boundary Line:Canton, Ohio: Boundary lines between Local 17 & Local 550 are as follows: All territory north of old Route 224 line to be the jurisdiction of Local 17. All bridges,tunnels,viaducts,signs,etc, relative to old Route 224 line to be within the jurisdiction of Local 17. All territory south of old Route 224 line is to be within the jurisdiction of Local 550, except for everything within the city limits of Barberton which shall be the jurisdiction of Local 17. Reading from West to East: Route old 224 line: Greenwich Ave-Wooster Road or East Ave. Route old 224 line: New 224 line including Cloverleaf: East Waterloo Road: New 224 line-Attwood Road-Old 224. This will be considered to be the old Route 224 line,except for the city limits of Barberton, Ohio which shall be the jurisdiction of Local 17 Southeast Boundary : Between local 17 and Local 207 are as follows: West of a line from Middlefield to Shalersville to Deerfield, shall be under the jurisdiction of local 17. East of a line from Middlefield, to Shalersville to Deerfield, shall be under the jurisdiction of Local 207. Local 17 & Local 207 have agreed that the Ohio County of Ashtabula shall be as follows: Everything North of Route 6, starting at the Geauga County line, proceeding east to State Route 45, shall be under the jurisdiction of Local 17. Everything South, starting at the Geauga County line shall be under local 207. North Boundary: The East boundary line and the West boundary line continuing North halfway across Lake Erie.

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Labor HevHwy 1B

Type of Rate: Commercial

Change #:
LCN02-2025ib

Craft:
Laborer

Effective Date:
6/11/2025

Effective Date:
6/11/2025

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Laborer Group 1	\$38.93		\$8.60	\$4.45	\$0.45	\$0.00	\$2.50	\$0.00	\$0.10	\$0.00	\$55.03	\$74.50
Group 2	\$39.10		\$8.60	\$4.45	\$0.45	\$0.00	\$2.50	\$0.00	\$0.10	\$0.00	\$55.20	\$74.75
Group 3	\$39.43		\$8.60	\$4.45	\$0.45	\$0.00	\$2.50	\$0.00	\$0.10	\$0.00	\$55.53	\$75.25
Group 4	\$39.88		\$8.60	\$4.45	\$0.45	\$0.00	\$2.50	\$0.00	\$0.10	\$0.00	\$55.98	\$75.92
Watch Person	\$32.00		\$8.60	\$4.45	\$0.45	\$0.00	\$2.50	\$0.00	\$0.10	\$0.00	\$48.10	\$64.10
Apprentice	BHR	Percent										
0-1000 hrs	\$31.14	\$80.00	\$8.60	\$4.45	\$0.45	\$0.00	\$2.50	\$0.00	\$0.10	\$0.00	\$47.24	\$62.82
1001-2000 hrs	\$33.09	\$85.00	\$8.60	\$4.45	\$0.45	\$0.00	\$2.50	\$0.00	\$0.10	\$0.00	\$49.19	\$65.74
2001-3000 hrs	\$35.04	\$90.00	\$8.60	\$4.45	\$0.45	\$0.00	\$2.50	\$0.00	\$0.10	\$0.00	\$51.14	\$68.66
3001-4000 hrs	\$36.98	\$95.00	\$8.60	\$4.45	\$0.45	\$0.00	\$2.50	\$0.00	\$0.10	\$0.00	\$53.08	\$71.58
More than 4000 hrs	\$38.93	\$100.00	\$8.60	\$4.45	\$0.45	\$0.00	\$2.50	\$0.00	\$0.10	\$0.00	\$55.03	\$74.50

(*)Special Calculation Note :

Watchman have no Apprentices. Tunnel Laborer rate with air-pressurized add \$1.00 to the above wage rate
Commercial Driver's License – Any Laborer required to utilize a valid Commercial Driver's License (CDL), are in compliance with necessary FMCSA regulations and approved by the Contractor to operate a Commercial Motor Vehicle (CMV), shall be paid one dollar (\$1.00) per hour above the base rate for the entirety of their working shift.

Ratio :

1 Journeymen to 1 Apprentice 3 Journeymen to 1 Apprentice thereafter

Jurisdiction (* denotes special jurisdictional note) :

Cuyahoga, Geauga

Special Jurisdictional Note :

Hod Carriers and Common Laborers - Heavy, Highway, Sewer, Waterworks, Utility, Airport, Railroad, Industrial and Building Site

Details :

Group 1 Laborer (Construction); Plant Laborer or Yardman, Right-of-way Laborer, Landscape Laborer, Highway Lighting Worker, Signalization Worker, (Swimming) Pool Construction Laborer, Utility Man, *Bridge Man, Handyman, Joint Setter, Flagperson, Carpenter Helper, Waterproofing Laborer, Slurry Seal, Seal Coating, Surface Treatment or Road Mix Laborer, Riprap Laborer & Grouter, Asphalt Laborer, Dump Man (batch trucks), Guardrail & Fence Installer, Mesh Handler & Placer, Concrete Curing Applicator, Scaffold Erector, Sign Installer, Hazardous Waste (level D), Diver Helper, Zone Person and Traffic Control. *Bridge Man will perform work as per the October 31, 1949, memorandum on concrete forms, by and between the United Brotherhood of Carpenters and Joiners of America and the Laborers' International Union of North America, which states in; "the moving, cleaning, oiling and carrying to the next point of erection, and the stripping of forms which are not to be re-used, and forms on all flat arch work shall be done by members of the Laborers' International Union of North America." Group 2 Asphalt Raker, Screwman or Paver, Concrete Puddler, Kettle Man (pipeline), All Machine-Driven Tools (Gas, Electric, Air), Mason Tender, Brick Paver, Mortar Mixer, Skid Steer, Sheeting & Shoring Person, Surface Grinder Person, Screedperson, Water Blast, Hand Held Wand, Power Buggy or Power Wheelbarrow, Paint Striper, Plastic fusing Machine Operator, Rodding Machine Operator, Pug Mill Operator, Operator of All Vacuum Devices Wet or Dry, Handling of all Pumps 4 inches and under (gas, air or electric), Diver, Form Setter, Bottom Person, Welder Helper (pipeline), Concrete Saw Person, Cutting with Burning Torch, Pipe Layer, Hand Spiker (railroad), Underground Person (working in sewer and waterline, cleaning, repairing and reconditioning). Tunnel Laborer (without air), Caisson, Cofferdam (below 25 feet deep), Air Track and Wagon Drill, Sandblaster Nozzle Person, Hazardous Waste (level B), ***Lead Abatement, Hazardous Waste (level C) ***Includes the erecting of structures for the removal, including the encapsulation and containment of Lead abatement process. Group 3 Blast and Powder Person, Muckers will be defined as shovel men working directly with the miners, Wrencher (mechanical joints & utility pipeline), Yarnier, Top Lander, Hazardous Waste (level A), Concrete Specialist, Curb Setter and Cutter, Grade Checker, Concrete Crew in Tunnels. Utility pipeline Tappers, Waterline, Caulker, Signal Person will receive the rate equal to the rate paid the Laborer classification for which the Laborer is signaling. Group 4 Miner, Welder, Gunite Nozzle Person A.) The Watchperson shall be responsible to patrol and maintain a safe traffic zone including but not limited to barrels, cones, signs, arrow boards, message boards etc. The responsibility of a watchperson is to see that the equipment, job and office trailer etc. are secure.

Prevailing Wage Rate Skilled Crafts

Name of Union: Operating Engineers - HevHwy Zone I

Type of Rate: Commercial

Change #:
LCN01-2025ib

Craft:
Operating Engineer

Effective Date:
5/1/2025

Effective Date:
5/1/2025

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Operator Class A	\$47.33		\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$64.23	\$87.90
Operator Class B	\$47.23		\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$64.13	\$87.75
Operator Class C	\$46.19		\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$63.09	\$86.19
Operator Class D	\$44.97		\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$61.87	\$84.36
Operator Class E	\$39.68		\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$56.58	\$76.42
Master Mechanic	\$48.33		\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$65.23	\$89.40
Lift Director	\$48.33		\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$65.23	\$89.40
Crane and Mobile Concrete Pump 150' - 179'	\$47.83		\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$64.73	\$88.65
Crane and Mobile Concrete Pump 180' - 249'	\$48.33		\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$65.23	\$89.40
Crane and Mobile Concrete Pump 250' and Over	\$48.58		\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$65.48	\$89.77
Apprentice	BHR	Percent										
1st Year	\$23.67	\$50.00	\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$40.57	\$52.40
2nd Year	\$28.40	\$60.00	\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$45.30	\$59.50
3rd Year	\$33.13	\$70.00	\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$50.03	\$66.60
4th Year	\$37.86	\$80.00	\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.10	\$54.76	\$73.70
Field Mech Trainee	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1st year	\$28.40	\$60.00	\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$45.30	\$59.50
2nd year	\$33.13	\$70.00	\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$50.03	\$66.60
3rd year	\$37.86	\$80.00	\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$54.76	\$73.70
4th year	\$42.60	\$90.00	\$9.51	\$6.25	\$0.95	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$59.50	\$80.80

(*)Special Calculation Note :

Other: Education & Safety Fund Misc: National Training

Ratio :

For every (3) Operating Engineer Journeymen employed by the company, there may be employed (1) Registered Apprentice or Trainee Engineer through the referral when they are available. An Apprentice, while employed as part of a crew per Article VIII, paragraph 68 will not be subject to the apprenticeship ratios in this collective bargaining agreement

Jurisdiction (* denotes special jurisdictional note) :

Ashtabula, Cuyahoga, Erie, Geauga, Lake, Lorain, Medina, Portage, Summit

Special Jurisdictional Note :

Details :

**Apprentices will receive a 10% increase on top of the percentages listed above provided they are operating mobile equipment.

Class A - Air Compressors on Steel Erection; Asphalt Plant Engineers (Cleveland District Only); Barrier Moving Machine; Boiler Operators, Compressor Operators, or Generators, when mounted on a rig; Boom Trucks (all types); Cableways; Cherry Pickers; Combination- Concrete Mixers & Towers; Concrete Plants (over 4 yd capacity); Concrete Pumps; Cranes (all types); Compact Cranes track or rubber over 4,000 pounds capacity; Cranes self-erecting stationary, track or truck; Derricks (all types); Draglines; Dredges dipper, clam or suction; Elevating Graders or Euclid Loaders; Floating Equipment (all types); Gradalls; Helicopter Crew (Operator- hoist or winch); Hoes (all types); Hoisting Engines; Hoisting Engines, on shaft or tunnel work; Hydraulic Gantry (lifting system); Industrial-type Tractors; Jet Engine Dryer (D8 or D9) diesel Tractors; Locomotives (standard gauge); Maintenance Operators/Technicians (class A); Mixers, paving (single or double drum); Mucking Machines; Multiple Scrapers; Piledriving Machines (all types); Power Shovels, Prentice Loader; Quad 9 (double pusher); Rail Tamper (with automatic lifting and aligning device); Refrigerating Machines (freezer operation); Rotary Drills, on caisson work; Rough Terrain Fork Lift with winch/hoist; Side Booms; Slip Form Pavers; Survey Crew Party Chiefs; Tower Derricks; Tree Shredders; Trench Machines (over 24" wide); Truck Mounted Concrete Pumps; Tug Boats; Tunnel Machines and /or Mining Machines; Wheel Excavators.

Class B - Asphalt Pavers; Automatic Subgrade Machines, self-propelled (CMI-type); Bobcat-type and /or Skid Steer Loader with hoe attachment greater than 7000 lbs.; Boring Machine Operators (more than 48 inches); Bulldozers; Concrete Saws, Vermeer type; Endloaders; Horizontal Directional Drill (50,000 ft. lbs. thrust and over); Hydro Milling Machine; Kolman-type Loaders (production type-dirt); Lead Greasemen; Lighting and Traffic Signal Installation Equipment includes all groups or classifications; Maintenance Operators/Technicians, Class B - Material Transfer Equipment (shuttle buggy) Asphalt; Pettibone-Rail Equipment; Power Graders; Power Scrapers; Push Cats; Rotomills (all), Grinders and Planners of all types, Groovers (excluding walk-behinds); Trench Machines (24 inch wide and under).

Class C - A-Frames; Air Compressors, on tunnel work (low Pressure); Articulating/straight bed end dumps if assigned (minus \$4.00 per hour); Asphalt Plant Engineers (Portage and Summit Counties only); Bobcat-type and/or skid steer loader with or without attachments; Drones; Highway Drills (all types); HydroVac/Excavator (when a second person is needed, the rate of pay will be "Class E"); Locomotives (narrow gauge); Material Hoist/Elevators; Mixers, concrete (more than one bag capacity); Mixers, one bag capacity (side loader); Power Boilers (over 15 lbs. pressure); Pump Operators (installing or operating well Points); Pumps (4 inch and over discharge); Railroad Tie Inserter/Remover; Rollers, Asphalt; Rotovator (lime-soil Stabilizer); Switch & Tie Tampers (without lifting and aligning device); Utilities Operators, (small equipment); Welding Machines and Generators.

Class D – Backfillers and Tampers; Ballast Re-locator; Bar and Joint Installing Machines; Batch Plant Operators; Boring Machine Operators (48 inch or less); Bull Floats; Burlap and Curing Machines; Concrete Plants (capacity 4 yds. and under); Concrete Saws (multiple); Conveyors (highway); Crushers; Deckhands; Farm type tractors, with attachments (highway); Finishing Machines; Firemen, Floating Equipment (all types); Fork Lifts (highway), except masonry; Form Trenchers; Hydro Hammers; Hydro Seeders; Pavement Breakers (hydraulic or cable); Plant Mixers; Post Drivers; Post Hole Diggers; Power Brush Burners; Power Form Handling Equipment; Road Widening Trenchers; Rollers (brick, grade, macadam); Self-Propelled Power Spreaders; Self-Propelled Sub-Graders; Steam Firemen; Survey Instrument men; Tractors, pulling sheepsfoot rollers or graders; Vibratory Compactors, with integral power.

Class E - Compressors (portable, Sewer, Heavy and Highway); Cranes-Compact, track or rubber under 4,000 pound capacity; Drum Firemen (asphalt plant); Fueling and greasing (Primary Operator with Specialized CDL Endorsement Add \$3.00/hr); Generators; Inboard-Outboard Motor Boat Launches; Masonry Fork Lifts; Oil Heaters (asphalt plant); Oilers/Helpers; Power Driven Heaters (oil fired); Power Scrubbers; Power Sweepers; Pumps (under 4 inch discharge); Signalperson; Survey Rodmen or Chairmen; Tire Repairmen; VAC/ALLS.

Master Mechanic - Master Mechanic

Cranes and Mobile Concrete Pumps 150' -179' - Boom & Jib 150 - 179 feet
Cranes and Mobile Concrete Pumps 180' - 249' - Boom & Jib 180 - 249 feet
Cranes and Mobile Concrete Pumps 250' and over - Boom & Jib 250 feet or over

Prevailing Wage Rate Skilled Crafts

Name of Union: Painter Local 707 HvyHwy

Type of Rate: Commercial

Change #:
LCN01-2025ib

Craft:
Painter

Effective Date:
7/16/2025

Effective Date:
7/16/2025

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Class 1: Bridge Blaster	\$41.71	\$9.52	\$6.08	\$0.45	\$0.00	\$4.15	\$0.00	\$0.00	\$0.00	\$61.91	\$82.77
Class 2: Bridge Painter, Rigger, Containment Builder, Spot Blaster	\$38.91	\$9.52	\$6.08	\$0.45	\$0.00	\$4.15	\$0.00	\$0.00	\$0.00	\$59.11	\$78.56
Class 3: Equipment Operator/ Field Mechanic, Grit Reclamation, Paint Mixer, Traffic Control Boat Person, Driver (0-5 Years Exp.)	\$31.71	\$9.52	\$6.08	\$0.45	\$0.00	\$4.15	\$0.00	\$0.00	\$0.00	\$51.91	\$67.77
Class 3: Equipment Operator/ Field Mechanic, Grit Reclamation, Paint Mixer, Traffic Control Boat Person, Driver (5 Plus Years Exp.)	\$34.71	\$9.52	\$6.08	\$0.45	\$0.00	\$4.15	\$0.00	\$0.00	\$0.00	\$54.91	\$72.27
Class 4: Concrete Sealing, Concrete Blasting/ Power Washing/ Etc	\$30.71	\$9.52	\$6.08	\$0.45	\$0.00	\$4.15	\$0.00	\$0.00	\$0.00	\$50.91	\$66.27

Class 5: Quality Control/Q uality Assurance , Traffic Safety, Competen t Person	\$34.71		\$9.52	\$6.08	\$0.45	\$0.00	\$4.15	\$0.00	\$0.00	\$0.00	\$54.91	\$72.27
Apprentice	BHR	Percent										
1st Year	\$27.11	\$65.00	\$9.52	\$1.64	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38.72	\$52.27
2nd Year	\$31.28	\$75.00	\$9.52	\$2.25	\$0.45	\$0.00	\$2.91	\$0.00	\$0.00	\$0.00	\$46.41	\$62.05
3rd Year	\$35.45	\$85.00	\$9.52	\$2.70	\$0.45	\$0.00	\$3.32	\$0.00	\$0.00	\$0.00	\$51.44	\$69.17

(*)Special Calculation Note :

Apprentice pay based on percentage of above appropriate classification.

Application of Catalytic materials under class 3 hazardous per MSDS- add .65 per hour to the above Job Classification basic hourly rate.

Application of Catalytic materials under class 4 hazardous per MSDS- add 1.00 per hour to the above Job Classification basic hourly rate.

Ratio :

1 Apprentice to 1 Journeyman

Jurisdiction (* denotes special jurisdictional note) :

Ashtabula, Cuyahoga, Geauga, Lake, Lorain, Portage*, Summit*

Special Jurisdictional Note :

Portage & Summit North of the East-West Turnpike.

Details :

Painter Bridge Class 2 is Defined as; Bridge Painter, Rigger, Containment Builder

Concrete Sealing: on highway work, scaling of concrete surfaces, the treating and sealing of bridge decks, the painting and staining of concrete, including the abutments, barricades, noise barriers, lane dividers, etc.

Prevailing Wage Rate Skilled Crafts

Name of Union: Pipefitter Local 120

Type of Rate: Commercial

Change #:
LCN01-2025ib

Craft:
Pipefitter

Effective Date:
6/11/2025

Effective Date:
6/11/2025

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Pipefitter	\$49.17		\$13.05	\$11.80	\$1.27	\$0.00	\$3.50	\$0.20	\$0.00	\$0.00	\$78.99	\$103.58
Apprentice	BHR	Percent										
1st year	\$23.83	\$48.46	\$5.70	\$0.00	\$1.27	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30.80	\$42.71
2nd year	\$24.57	\$49.97	\$12.23	\$7.20	\$1.27	\$0.00	\$0.88	\$0.20	\$0.00	\$0.00	\$46.35	\$58.64
3rd year	\$28.45	\$57.86	\$12.23	\$7.20	\$1.27	\$0.00	\$0.88	\$0.20	\$0.00	\$0.00	\$50.23	\$64.45
4th year	\$33.89	\$68.92	\$12.23	\$7.20	\$1.27	\$0.00	\$0.88	\$0.20	\$0.00	\$0.00	\$55.67	\$72.61
5th year	\$37.78	\$76.84	\$12.23	\$7.20	\$1.27	\$0.00	\$0.88	\$0.20	\$0.00	\$0.00	\$59.56	\$78.45

(*)Special Calculation Note :

OTHER: SUPPLEMENTAL UNEMPLOYMENT BENEFITS

Ratio :

1 Journeyman to 1 Apprentice 2-4 Journeymen to 2 Apprentices 5-7 Journeymen to 3 Apprentices 3 to 1 on jobs with 12 or more journeymen

Jurisdiction (* denotes special jurisdictional note) :

Ashtabula, Cuyahoga, Geauga, Lake, Medina*, Summit*

Special Jurisdictional Note :

Summit County - North of State Route 303 including work within the corporate limits of the City of Hudson, that portion of Medina County North of State Route 18 and Smith Road and including work within the corporate limits of the City of Medina.

Details :

Under pipefitter duties shall include - steam and hot water heating boilers and related controls such as automatic feedwater and low water cut-offs, safety relief valves and gas trains; steam regulators, traps, steam valves, steam heaters, steam and hot water heating coils; feedwater lines to boilers, condensate pumps, condensate tanks and related piping to boilers, expansion tanks and controls on hot water heating systems; refrigeration and air conditioning systems that are separate from one another and are connected through piping; install, calibrate and maintain pneumatic temperature controls and piping for heating and cooling devices; piping, pumps and controls on the fluent water system in water treatment plants; hose cabinets and automatic fire sprinkler systems; underground water supply piping and devices; all fire stopping of piping systems; to operate a pipe cutting machine, to thread pipe by machine or hand dies; to do oxyacetylene and electric welding on iron and steel pipes when required; to perform other tasks when assigned.

Prevailing Wage Rate Skilled Crafts

Name of Union: Plumber Local 55

Type of Rate: Commercial

Change #:
LCN01-2025ib

Craft:
Plumber

Effective Date:
5/21/2025

Effective Date:
5/21/2025

Classification	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Plumber	\$44.86		\$12.87	\$9.63	\$1.23	\$0.00	\$7.10	\$0.20	\$0.00	\$0.00	\$75.89	\$98.32
Shopman (When in the field)	\$24.69		\$9.50	\$5.59	\$0.10	\$0.00	\$3.85	\$0.00	\$0.00	\$0.00	\$43.73	\$56.08
Plumber Light Commercial Journeymen	\$29.42		\$9.18	\$2.28	\$0.69	\$0.00	\$3.58	\$0.20	\$0.00	\$0.00	\$45.35	\$60.06
Apprentice Light Commercial Trainee	\$		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
0-3 Months	\$14.84		\$0.00	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.34	\$22.76
4-6 Months	\$15.03		\$3.69	\$0.00	\$0.46	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.18	\$26.70
7-12 Months	\$15.32		\$4.42	\$0.33	\$0.63	\$0.00	\$1.13	\$0.00	\$0.00	\$0.00	\$21.83	\$29.49
2nd Year	\$16.67		\$4.49	\$0.35	\$0.65	\$0.00	\$1.20	\$0.00	\$0.00	\$0.00	\$23.36	\$31.70
3rd Year	\$18.03		\$4.55	\$0.36	\$0.68	\$0.00	\$1.28	\$0.00	\$0.00	\$0.00	\$24.90	\$33.92
Apprentice	BHR	Percent										
1-6 Months	\$19.80	\$44.14	\$7.39	\$0.24	\$0.95	\$0.00	\$1.56	\$0.00	\$0.00	\$0.00	\$29.94	\$39.84
7-12 Months	\$22.50	\$50.15	\$7.61	\$0.44	\$1.00	\$0.00	\$2.01	\$0.20	\$0.00	\$0.00	\$33.76	\$45.01
2nd year 1-6	\$24.07	\$53.65	\$8.37	\$0.85	\$1.05	\$0.00	\$3.06	\$0.20	\$0.00	\$0.00	\$37.60	\$49.63
2nd year 7-12	\$25.01	\$55.76	\$8.55	\$2.85	\$1.05	\$0.00	\$3.78	\$0.20	\$0.00	\$0.00	\$41.44	\$53.95
3rd year 1-6	\$28.09	\$62.61	\$9.08	\$2.80	\$1.05	\$0.00	\$4.00	\$0.20	\$0.00	\$0.00	\$45.22	\$59.26
3rd year 7-12	\$30.24	\$67.40	\$9.32	\$3.63	\$1.05	\$0.00	\$4.62	\$0.20	\$0.00	\$0.00	\$49.06	\$64.17
4th year	\$33.02	\$73.60	\$9.57	\$4.07	\$1.05	\$0.00	\$4.98	\$0.20	\$0.00	\$0.00	\$52.89	\$69.40
5th year	\$35.83	\$79.88	\$9.81	\$4.51	\$1.05	\$0.00	\$5.33	\$0.20	\$0.00	\$0.00	\$56.73	\$74.65

(*)Special Calculation Note :

OTHER IS: SUPPLEMENTAL UNEMPLOYMENT

Ratio :

1 Journeyman 1 Apprentice 2 Journeymen to 1 Apprentice thereafter Light Commercial Ratio 1-2 Journeymen to 1 Trainee 3 Journeymen to 2 Trainees 4-5 Journeymen to 3 Trainees 6-8 Journeymen to 4 Trainees 9-10 Journeymen to 5 Trainees 11-13 Journeymen to 6 Trainees

Jurisdiction (* denotes special jurisdictional note) :

Ashtabula, Cuyahoga, Geauga, Lake, Medina*, Summit*

Special Jurisdictional Note :

Summit County - North of State Route 303 including work within the corporate limits of the City of Hudson, that portion of Medina County North of Route 18 and Smith Road and the corporate limits of the City of Medina.

Details :

The Plumber Shopman will have charge of the Employer's shop and warehouse containing plumbing and heating supplies and equipment, and perform such duties as are customarily required by a Plumber or a Plumber's Shopman, including casual delivery of tools and equipment necessary for installation of Plumbing and Heating facilities. One field shopman per shop may be hired after employing the 1st apprentice, and a second field shopman per shop may be hired after employing the 5th apprentice. These shopmen may work in the field performing primarily non-mechanical work. The plumber shopman's duties do not include the installation of plumbing. The Plumber Light Commercial Rate can be used for the following: Any private construction project covered by this agreement shall be eligible for designation as a Market Recovery Project (Lt Commercial). The Market Recovery (Lt Commercial) wage rate shall be determined project specific by the business manager. The Market Recovery rate (Lt Commercial) may be utilized on all new, repair, remodeling, alteration, and/or maintenance (interior and exterior) of "Private Enterprise Projects"; including office buildings, service buildings, retail establishments, churches, motels/hotels, and strip shopping centers which fall under this agreement.

Prevailing Wage Rate Skilled Crafts

Name of Union: Truck Driver Local 436 - HevHwy Class 1

Type of Rate: Commercial

Change #:
LCN02-2025ib

Craft:
Truck Driver

Effective Date:
5/28/2025

Effective Date:
5/28/2025

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Truck Driver CLASS 1	\$34.92		\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$54.62	\$72.08
Apprentice	BHR	Percent										
First 6 months	\$27.94	\$80.00	\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$47.64	\$61.60
7-12 months	\$29.68	\$85.00	\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$49.38	\$64.22
13-18 months	\$31.43	\$90.00	\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$51.13	\$66.84
19-24 months	\$33.17	\$95.00	\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$52.87	\$69.46
25-30 months	\$34.92	\$100.00	\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$54.62	\$72.08

(*)Special Calculation Note :

Ratio :

3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Cuyahoga, Geauga, Lake

Special Jurisdictional Note :

Details :

CLASS 1: Drivers on trucks, including but not limited to: 4-wheel service trucks; 4-wheel dump trucks; batch trucks; drivers on tandems; truck sweepers (not to include power sweepers and scrubbers) Drivers on tractor – trailer combinations including but not limited to the following: Semi-tractor trucks; pole trailers; ready-mix trucks; fuel trucks; all trucks five (5) axle and over; drivers on belly dumps; truck mechanics (when needed).

Prevailing Wage Rate Skilled Crafts

Name of Union: Truck Driver Local 436 - HevHwy Class 2

Type of Rate: Commercial

Change #:
LCN02-2025ib

Craft:
Truck Driver

Effective Date:
5/28/2025

Effective Date:
5/28/2025

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Truck Driver CLASS 2	\$35.73		\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$55.43	\$73.30
Apprentice	BHR	Percent										
First 6 months	\$28.58	\$80.00	\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$48.28	\$62.58
7-12 months	\$30.37	\$85.00	\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50.07	\$65.26
13-18 months	\$32.16	\$90.00	\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$51.86	\$67.94
19-24 months	\$33.94	\$95.00	\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$53.64	\$70.62
25-30 months	\$35.73	\$100.00	\$9.25	\$10.05	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$55.43	\$73.30

(*)Special Calculation Note :

Ratio :

3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Cuyahoga, Geauga, Lake

Special Jurisdictional Note :

Details :

CLASS 2: Drivers on articulated dump trucks; rigid-frame rock trucks; distributor trucks; low boys/drag driver on the construction site only and heavy duty equipment (irrespective of load carried) when used exclusively for transportation on the construction site only.