

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**MOT-75-(10.44)(10.78)**

CITY OF DAYTON  
MONTGOMERY COUNTY

PROJECT DESCRIPTION

REMOVAL AND REPLACEMENT OF THE CONCRETE DECK OF THE MOT-75-1044 STRUCTURE OVER CARILLON BLVD AND THE GREAT MIAMI RIVER. SUPERSTRUCTURE REPLACEMENT OF THE MOT-75-1078 STRUCTURE OVER EDWIN C. MOSES BLVD. APPROACH SLAB REPLACEMENT FOR EACH STRUCTURE, GUIDE SIGN REPLACEMENT ALONG EDWIN C. MOSES BLVD, REMOVAL OF THE TURNAROUND LOCATED AT THE EDWIN C. MOSES BLVD. INTERCHANGE, AND REPLACEMENT OF MEDIAN BARRIER WALL. RESURFACING OF I.R. 75 AND THE EDWIN C. MOSES BLVD INTERCHANGE RAMP.

PROJECT EARTH DISTURBED AREA: 1.89 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 1.00 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: 4.9 ACRES

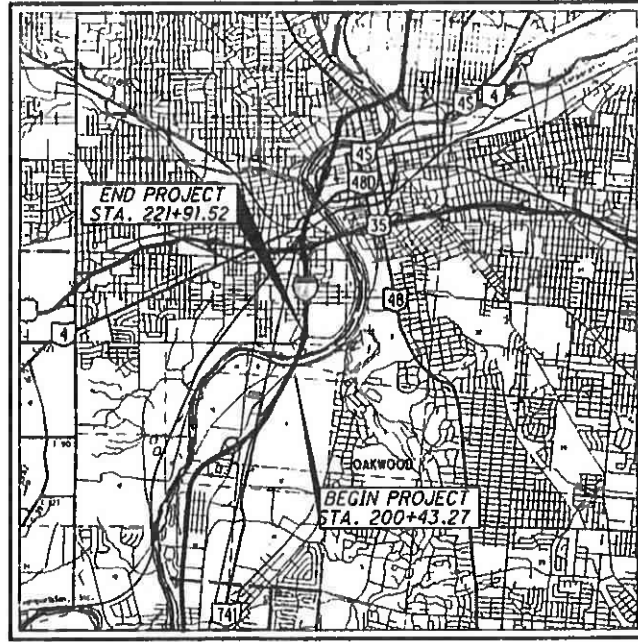
LIMITED ACCESS

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

2019 SPECIFICATIONS

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

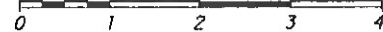
I HEREBY APPROVED THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



LOCATION MAP

LATITUDE: 39°43'52" LONGITUDE: 84°12'21"

SCALE IN MILES



PORTION TO BE IMPROVED	-----
INTERSTATE HIGHWAY	-----
FEDERAL ROUTES	-----
STATE ROUTES	-----
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

DESIGN DESIGNATION

CURRENT ADT (2019)	119,000
DESIGN YEAR ADT (2039)	131,000
DESIGN HOURLY VOLUME (2039)	12,000
DIRECTIONAL DISTRIBUTION	53%
TRUCKS (24 HOUR B&C)	20%
DESIGN SPEED	60 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
URBAN INTERSTATE	
NHS PROJECT	YES

DESIGN EXCEPTIONS

SUPERELEVATION - APPROVED 11/7/16  
SHOWN ON SHEETS 2-6-7-8

**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

**OHIO Utilities Protection SERVICE**  
Call Before You Dig  
1-800-362-2164  
(Non-members must be called directly)

**OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE**  
1-800-925-0988

PLAN PREPARED BY:



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ENGINEERS SEAL:  
FOR SHEETS 178-192

STATE OF OHIO  
REGISTERED PROFESSIONAL ENGINEER  
MARK E. MOELLMAN  
E-48120

SIGNED: [Signature]  
DATE: 2/13/20

ENGINEERS SEAL:  
FOR SHEETS 193-340

STATE OF OHIO  
REGISTERED PROFESSIONAL ENGINEER  
DAVID F. TRAINI  
E-48751

SIGNED: [Signature]  
DATE: 2/13/20

ENGINEERS SEAL:  
FOR SHEETS 1-177

STATE OF OHIO  
REGISTERED PROFESSIONAL ENGINEER  
BRENT B. DOWNING  
#E-EX2866

SIGNED: [Signature]  
DATE: 2/13/20

STATE OF OHIO  
REGISTERED PROFESSIONAL ENGINEER  
BRENT B. DOWNING  
#E-EX2866

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS			
BP-3.1	01/17/20	MGS-4.3	1/18/13	VFP-1-90	7/20/18	MT-95.31	7/19/19	MT-103.10	1/19/18	TC-65.11	7/21/17	800-2019	4/17/20	GEPA DEMO
		MGS-5.2	7/15/16			MT-95.40	1/17/20	MT-104.10	10/16/15	TC-72.20	7/20/18	808	1/18/19	1/28/09
I-2.1	1/15/16	MGS-5.3	7/15/16	HL-10.11	7/19/19	MT-95.41	1/17/20	MT-105.10	1/17/20			813	10/18/18	
I-2.2	7/19/19	MGS-6.1	1/19/18	HL-10.12	1/20/17	MT-95.45	1/17/20	MT-110.10	7/19/13			814	7/15/16	WPC
				HL-10.13	1/17/20	MT-95.72	1/17/20					821	4/20/12	6/15/18
DM-1.1	7/21/17	RM-4.1	1/17/20	HL-20.11	4/21/17	MT-98.10	1/17/20	TC-7.65	7/20/18			832	10/18/18	
DM-1.2	1/18/13	RM-4.2	1/17/20	HL-20.13	1/19/18	MT-98.11	1/17/20	TC-9.10	1/19/18			845	4/20/18	
DM-2.1	1/18/13	RM-4.3	7/18/14	HL-30.11	7/19/19	MT-98.20	4/19/19	TC-12.30	1/19/18					
DM-4.1	7/20/18	RM-4.4	7/19/19	HL-30.31	1/17/20	MT-98.21	1/17/20	TC-21.10	7/19/19			908	10/20/17	
DM-4.3	1/15/16	RM-4.6	7/19/13	HL-30.32	1/17/20	MT-98.22	1/17/20	TC-21.20	7/20/18			913	4/21/17	
DM-4.4	1/15/16			HL-30.33	1/17/20	MT-98.29	1/17/20	TC-21.50	7/15/16			914	7/15/16	
		A-1-69	7/19/02	HL-30.41	1/19/18	MT-98.30	7/19/19	TC-41.10	7/19/13			921	4/20/12	
BP-5.1	1/18/19	AS-1-15	7/17/15	HL-40.10	1/20/17	MT-99.20	4/19/19	TC-41.20	10/18/13					
BP-9.1	1/18/19	AS-2-15	1/18/19	HL-40.20	1/17/20	MT-99.30	1/17/20	TC-41.30	10/18/13					
		GSD-1-96	7/19/02	HL-50.11	1/16/15	MT-101.60	1/17/20	TC-42.10	10/18/13					
F-1.1	7/19/13	HW-2.1	7/20/18	HL-50.21	1/18/19	MT-101.70	1/17/20	TC-42.20	10/18/13					
		HW-2.2	7/20/18	HL-60.11	7/21/17	MT-101.75	1/17/20	TC-51.11	1/15/16					
MGS-1.1	1/19/18	PCB-91	1/18/13	HL-60.12	7/15/16	MT-101.80	1/17/20	TC-51.12	1/15/16					
MGS-2.1	1/19/18	SBR-1-13	7/20/18	HL-60.21	7/20/18	MT-101.90	7/21/17	TC-52.10	10/18/13					
MGS-3.1	1/19/18	SBR-2-13	7/20/18	HL-60.31	1/17/20	MT-102.10	1/17/20	TC-52.20	7/20/18					
MGS-3.2	1/18/13	SICD-1-96	7/18/14			MT-102.20	4/19/19	TC-61.30	7/19/19					
MGS-4.2	7/19/13	SICD-2-14	7/18/14	MT-95.30	7/19/19	MT-102.30	10/16/15	TC-65.10	1/17/14					

APPROVED: [Signature] DISTRICT DEPUTY DIRECTOR  
DATE: 2/13/20

APPROVED: [Signature] DIRECTOR, DEPARTMENT OF TRANSPORTATION  
DATE: 3/5/20

MOT - IR - 75 - (10.44)(10.78)  
200341  
PID - 91606  
Dist 7  
07/02/2020

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

FEDERAL PROJECT NO.  
E120(723)

PID NO.  
91606

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
NONE

MOT-75-(10.44)(10.78)

1  
348

**ITEM 614, MAINTAINING TRAFFIC**

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

1. A MINIMUM OF THREE ELEVEN FOOT LANES OF TRAFFIC IN EACH DIRECTION ON IR 75 SHALL BE MAINTAINED BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, OR ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC. A REDUCTION IN THE NUMBER OF LANES ON IR 75 IS PERMITTED AS LONG AS IT IS IN COMPLIANCE WITH THE NOTES LISTED HEREIN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN 72 HOURS PRIOR TO A SCHEDULED DISRUPTION OF TRAFFIC.

2. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON CARILLON BLVD EXCEPT FOR 15 MINUTE INTERVALS WHEN TRAFFIC MAY BE STOPPED FROM 8 PM TO 6 AM ON WEEKDAYS OR WEEKENDS (FOR BRIDGE DECK REMOVAL, THE PLACEMENT OF BEAMS, ETC.). LANE RESTRICTIONS DESCRIBED ABOVE SHALL BE APPROVED BY THE ENGINEER. SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$125 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

3. TWO LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON EDWIN C. MOSES BLVD EXCEPT FOR NIGHTLY RIGHT LANE CLOSURES FROM 8 PM TO 6 AM, AND FOR 15 MINUTE INTERVALS WHEN TRAFFIC MAY BE STOPPED FROM 8 PM TO 6 AM ON WEEKDAYS OR WEEKENDS (FOR BRIDGE DECK REMOVAL, THE PLACEMENT OF BEAMS, ETC.). LANE CLOSURES SHALL BE PER STANDARD CONSTRUCTION DRAWING MT-95.31. ALL DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES. LANE RESTRICTIONS WILL NOT BE PERMITTED DURING SCHEDULED EVENTS AT UNIVERSITY OF DAYTON ARENA. LANE RESTRICTIONS DESCRIBED ABOVE SHALL BE APPROVED BY THE ENGINEER. SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$125 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

4. ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON IR 75 RAMPS EXCEPT DURING PERIODS APPROVED BY THE ENGINEER OR AS PERMITTED BY THE NOTES HERE IN. SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$125 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

5. ALL EXISTING LANES, INCLUDING RAMPS, SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE FINAL ALIGNMENT BY OCTOBER 15, 2022

SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS AND TIME FRAMES LISTED ABOVE, A DISINCENTIVE SHALL BE ASSESSED DURING THE TIME FRAMES IN THE AMOUNT OF \$10,000 PER CALENDAR DAY PER THE NOTE ON SHEET 19.

6. NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES AND RAMPS SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING
NCAA BASKETBALL TOURNAMENT AT UNIVERSITY OF DAYTON	

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

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$125 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

7. LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

8. NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

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

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

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN SHALL LIST A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THE FOLLOWING PHONE NUMBER FOR ODOT DISTRICT 7 SHALL BE USED: (888) 200-9919

ROAD WILL BE CLOSED MMM-DD FOR XX DAYS  
INFO: 888-200-9919

W20-H13-60

9. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 100 CU. YD.

10. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC AS SHOWN IN THE PLANS.

11. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN IN THE PLANS.

12. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**PERMITTED LANE CLOSURES**

LANE CLOSURES ON IR 75 SHALL ONLY BE IMPLEMENTED AT THE TIMES LISTED ON THE OHIO DEPARTMENT OF TRANSPORTATION'S PERMITTED LANE CLOSURES WEB SITE WHICH IS LOCATED AT:

<http://plcm.dot.state.oh.us/>

THE PERMITTED CLOSURE TIMES LISTED ON THE WEBSITE, 14 CALENDAR DAYS PRIOR TO THE BID LETTING DATE, SHALL BE IN EFFECT FOR THIS PROJECT.

NO WORK WITHIN ACTIVE TRAVEL LANES OR WHICH WILL SLOW TRAFFIC IS PERMITTED AT ANY OTHER TIMES. SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$125 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

**ITEM 614, REPLACEMENT SIGN**

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 20 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

**ITEM 614, REPLACEMENT DRUM**

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 50 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

**WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)**

R11-H5A-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUTDOWNS.

THE SIGNS ON THE MAINLINE SHALL BE DUAL MOUNTED UNLESS NOT PHYSICALLY POSSIBLE. THE FIRST SIGN SHALL BE PLACED BETWEEN THE ROAD WORK AHEAD (W20-I) SIGN AND THE NEXT SIGN IN THE SEQUENCE. SIGNS SHALL BE ERECTED ON EACH ENTRANCE RAMP AND EVERY 2 MILES THROUGH THE CONSTRUCTION WORK LIMITS. SIGNS ON THE MAINLINE SHALL BE R11-H5A-48. SIGNS USED ON THE RAMPS SHALL BE R11-H5A-24. R11-H5A-24 SIGNS MAY BE USED IN THE MEDIAN IN LIEU OF R11-H5A-48 SIGNS IF IT IS NOT PHYSICALLY POSSIBLE TO PROVIDE R11-H5A-48 SIGNS IN THE MEDIAN.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF C&MS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 11 EACH

P:\91606\roadway\sheet\91606GG002.dgn Sheet 6/25/2020 2:53:09 PM stobe

SHEET NUM.										PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED MJC CHECKED BBD	
OFFICE CALCS		12		13		123	125		163	180	01/BRO/BR	02/IMS/BR								03/IMS/PV
							0.27						0.27	602	20000	0.27	CY	CONCRETE MASONRY		
		25											25	605	13300	25	FT	6" UNCLASSIFIED PIPE UNDERDRAINS		
										160			160	611	00400	160	FT	4" CONDUIT, TYPE E		
		25										25	611	01500	25	FT	6" CONDUIT, TYPE F			
							430					430	611	05900	430	FT	15" CONDUIT, TYPE B			
							44					44	611	06700	44	FT	15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21			
							4					4	611	99110	4	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1			
							1					1	611	99111	1	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN		13	
							1					1	611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE			
		4										4	611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET			
												100	252	01500	100	FT	FULL DEPTH PAVEMENT SAWING			
97,299												97,299	254	01000	97,299	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"			
11,797												11,797	254	01000	11,797	SY	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH			
245		15		5								265	301	46000	265	CY	ASPHALT CONCRETE BASE, PG64-22			
1,222												1,222	302	46000	1,222	CY	ASPHALT CONCRETE BASE, PG64-22			
646							3					649	304	20000	649	CY	AGGREGATE BASE			
12,578												12,578	407	10000	12,578	GAL	TACK COAT			
178												178	408	10000	178	GAL	PRIME COAT			
3,503												3,503	442	00100	3,503	CY	ANTI-SEGREGATION EQUIPMENT			
4,618		5										4,618	442	10000	4,618	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)			
855												855	442	20200	855	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)			
							115					115	609	24510	115	FT	CURB, TYPE 4-C			
							35					35	609	54000	35	SY	6" CONCRETE TRAFFIC ISLAND			
75												75	617	10100	75	CY	COMPACTED AGGREGATE			
2.59												2.59	618	40600	2.59	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)			
										762		762	514	27710	762	FT	FIELD PAINTING, MISC.:LIGHTING CONDUIT AND REPAIR		179	
										10		10	625	00450	10	EACH	CONNECTION, FUSED PULL APART			
										23		23	625	00481	23	EACH	CONNECTION, UNFUSED PERMANENT, AS PER PLAN		178	
										5		5	625	10490	5	EACH	LIGHT POLE, CONVENTIONAL, DESIGN A8BB41.7			
										20		20	625	10614	20	EACH	LIGHT POLE ANCHOR BOLTS ON STRUCTURE			
										10,182		10,182	625	23200	10,182	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE			
										1,570		1,570	625	23300	1,570	FT	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE			
										505		505	625	23400	505	FT	NO. 10 AWG POLE AND BRACKET CABLE			
										420		420	625	25300	420	FT	CONDUIT, 1-1/2", 725.04			
										1,694		1,694	625	25400	1,694	FT	CONDUIT, 2", 725.04			
										1,725		1,725	625	25500	1,725	FT	CONDUIT, 3", 725.04			
										10		10	625	26251	10	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN, HPS		178	
										18		18	625	27503	18	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, WALL MOUNTED		178	
										1,532		1,532	625	29002	1,532	FT	TRENCH, 24" DEEP			
										28		28	625	29901	28	EACH	JUNCTION BOX, AS PER PLAN		179	
										6		6	625	29940	6	EACH	BARRIER JUNCTION BOX			
										8		8	625	30700	8	EACH	PULL BOX, 725.08, 18"			
								9		2		11	625	32000	11	EACH	GROUND ROD			
										2		2	625	33000	2	EACH	STRUCTURE GROUNDING SYSTEM			
										2		2	625	34001	2	EACH	POWER SERVICE, AS PER PLAN		178	

GENERAL SUMMARY

MOT - 75 - (10.44)(10.78)

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SHEET NUM.				PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
				01/BRO/BR	02/IMS/BR	03/IMS/PV						
	201											
	LS			LS			202	11203	LS		STRUCTURE OVER 20 FOOT SPAN (MOT-75-1044C)	
	669			669			202	22900	669	SY	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN APPROACH SLAB REMOVED	198,202,204 215-224
	LS			LS			503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
	LS			LS			503	21300	LS		UNCLASSIFIED EXCAVATION	
	978			978			504	11101	978	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (SECTION MODULUS = 21.5 IN3/FT)	218-219
	1,441			1,441			504	11101	1,441	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (SECTION MODULUS = 33.5 IN3/FT)	221-222
	1,216,251			1,216,251			509	10000	1,216,251	LB	EPOXY COATED REINFORCING STEEL	
	500			500			509	20000	500	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
	366			366			510	10000	366	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
	3,761			3,761			511	34446	3,761	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK	
	752			752			511	34450	752	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	
	129			129			511	44110	129	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	
	33			33			511	53014	33	CY	CLASS QC3 CONCRETE, MISC.:MODULAR EXPANSION JOINT, AS PER PLAN	278
	3,669			3,669			512	10100	3,669	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
	17			17			512	33000	17	SY	TYPE 2 WATERPROOFING	
	29,676			29,676			513	10201	29,676	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN	198,240
	235,606			235,606			513	10281	235,606	LB	STRUCTURAL STEEL MEMBERS, LEVEL 4, AS PER PLAN	237
	286			286			513	17001	286	FT	STRUCTURAL STEEL MEMBERS, MODULAR EXPANSION JOINT, LEVEL UF, AS PER PLAN	198-199,214-217
	52,614			52,614			513	20000	52,614	EACH	WELDED STUD SHEAR CONNECTORS	
	LS			LS			513	95020	LS		STRUCTURAL STEEL, MISC.:TEMPORARY SUPPORT OF EXISTING STRUCTURE	238
	11,720			11,720			514	00050	11,720	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	
	11,720			11,720			514	00057	11,720	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN	239
	22,878			22,878			514	00060	22,878	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
	22,878			22,878			514	00066	22,878	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	
	1			1			514	10000	1	EACH	FINAL INSPECTION REPAIR	
	396			396			516	13200	396	SF	1/2" PREFORMED EXPANSION JOINT FILLER	
	198			198			516	13600	198	SF	1" PREFORMED EXPANSION JOINT FILLER	
	15			15			516	44101	15	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 2.2988" WITH 23" x 28" x 1.625" LOAD PLATE)	232
	16			16			516	44101	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 2.2988" WITH 23" x 28" x 1.875" LOAD PLATE)	232
	30			30			516	44201	30	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 23" x 28" x 1.5625" LOAD PLATE)	233
	32			32			516	44201	32	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 23" x 28" x 1.8125" LOAD PLATE)	233
	15			15			516	44201	15	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 23" x 28" x 0.5" LOAD PLATE)	234
	17			17			516	44201	17	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 23" x 28" x 1.0" LOAD PLATE)	234
	7			7			516	44201	7	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 18" x 28" x 3.375" LOAD PLATE)	235
	8			8			516	44201	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 18" x 28" x 3.875" LOAD PLATE)	235
	LS			LS			516	47000	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE	
	33			33			518	12301	33	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN	247
	179			179			518	21201	179	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN	224-231
	307			307			518	40000	307	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
	136			136			518	40011	136	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	227-231
	693			693			526	25011	693	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15'), AS PER PLAN	273
	160			160			526	90020	160	SY	TYPE B INSTALLATION	
	262			262			607	39900	262	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC	

GENERAL SUMMARY

MOT-75-(10.44)(10.78)

SHEET NUM.				PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED MJC CHECKED BBD
				01/BRO/BR	02/IMS/BR	03/IMS/PV							
288													
LS					LS		202	11203	LS		STRUCTURE OVER 20 FOOT SPAN (MOT-75-1078C)		
642					642		202	22900	642	SY	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	287,298-304,314-317	
588					588		202	32800	588	SY	APPROACH SLAB REMOVED		
											CONCRETE SLOPE PROTECTION REMOVED		
LS					LS		503	11100	LS		COFFERDAMS AND EXCAVATION BRACING		
LS					LS		503	21300	LS		UNCLASSIFIED EXCAVATION		
LS					LS		505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION		
320					320		507	00500	320	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		
360					360		507	00550	360	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		
209,938					209,938		509	10000	209,938	LB	EPOXY COATED REINFORCING STEEL		
716					716		510	10000	716	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		
4					4		511	33501	4	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN		326
819					819		511	34446	819	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		
208					208		511	34450	208	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)		
27					27		511	41010	27	CY	CLASS QC1 CONCRETE, PIER ABOVE FOOTINGS		
126					126		511	43510	126	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING		
1,750					1,750		512	10100	1,750	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
14					14		512	33000	14	SY	TYPE 2 WATERPROOFING		
725,675					725,675		513	10260	725,675	LB	STRUCTURAL STEEL MEMBERS, LEVEL 3		
10,620					10,620		513	20000	10,620	EACH	WELDED STUD SHEAR CONNECTORS		
35,834					35,834		514	00060	35,834	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT		
35,834					35,834		514	00066	35,834	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT		
32					32		516	13200	32	SF	1/2" PREFORMED EXPANSION JOINT FILLER		
48					48		516	13900	48	SF	2" PREFORMED EXPANSION JOINT FILLER		
273					273		516	14020	273	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL		
36					36		516	44101	36	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11" x 15" x 2.948" WITH 12" x 16" x 1.5" LOAD PLATE)		321
36					36		516	44201	36	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (13" x 19" x 3.398" WITH 14" x 20" x 1.5" LOAD PLATE)		321
11					11		518	12301	11	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN		328
207					207		518	21200	207	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		
285					285		518	40000	285	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		
62					62		518	40011	62	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN		308,312
1					1		523	20000	1	EACH	DYNAMIC LOAD TESTING		
640					640		526	25001	640	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN		338
640					640		526	90020	640	SY	TYPE B INSTALLATION		
1,081					1,081		601	21000	1,081	SY	CONCRETE SLOPE PROTECTION		
406					406		607	39900	406	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC		

GENERAL SUMMARY

MOT-75-(10.44)(10.78)

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**CAUSEWAY NOTES**

THE FOLLOWING REQUIREMENTS OF THE CMS AND SUPPLEMENTAL SPECIFICATION 832.07 DO NOT APPLY FOR WORK ASSOCIATED WITH THE CAUSEWAY CONSTRUCTION SHOWN IN THE PLANS. SEE SHEET 158 FOR THE CAUSEWAY PLAN.

1. PRIOR TO THE INITIATION OF ANY IN-STREAM WORK, ESTABLISH A MONUMENT UPSTREAM OF PROPOSED TEMPORARY CROSSING OR TEMPORARY CONSTRUCTION ACCESS FILL TO VISUALLY MONITOR THE WATER ELEVATION IN THE WATERWAY WHERE THE FILL IS PERMITTED. MAINTAIN THE MONUMENT THROUGHOUT THE PROJECT. PROVIDE A VISUAL MARK ON THE MONUMENT THAT IDENTIFIES THE ELEVATION 1 FOOT ABOVE THE ORDINARY HIGH WATER MARK (OHWM). IF THE OHWM IS NOT SHOWN ON THE PLANS, THE DEPARTMENT WILL ESTABLISH THE OHWM BASED ON THE DEFINITION OF OHWM (832.02) OR THE PEAK DISCHARGE FROM THE 2 YEAR EVENT, USING THE METHOD DESCRIBED IN THE MOST CURRENT VERSION OF THE DEPARTMENT'S LOCATION AND DESIGN MANUAL VOLUME II.

2. REMOVED

3. IF THE POOL ELEVATION OF THE WATERWAY EXCEEDS THE 1 FOOT ABOVE THE OHWM ELEVATION AS READ FROM THE MONUMENT, THE CONTRACTOR IS ENTITLED TO AN EXCUSABLE, NON-COMPENSABLE DELAY IN ACCORDANCE WITH SECTION 108.06 OF THE CONSTRUCTION & MATERIALS SPECIFICATIONS.

4. CONSTRUCT THE CAUSEWAY AND ACCESS FILLS TO A WATER ELEVATION AT LEAST 1 FOOT (0.3 M) ABOVE THE OHWM. IF THE CAUSEWAY FILLS MORE THAN ONE-THIRD THE WIDTH OF THE STREAM, THEN USE CULVERT PIPES TO ALLOW THE MOVEMENT OF AQUATIC LIFE.

THE FOLLOWING REQUIREMENTS ARE IN ADDITION TO THE WATERWAY SPECIAL PROVISIONS, CMS AND SS832 REQUIREMENTS FOR THE CAUSEWAY SHOWN ON THIS PLAN.

1. PRIOR TO THE INITIATION OF ANY IN-STREAM WORK, ESTABLISH A MONUMENT UPSTREAM OF PROPOSED CAUSEWAY TO VISUALLY MONITOR THE WATER ELEVATION IN THE WATERWAY WHERE THE CAUSEWAY IS PERMITTED. MAINTAIN THE MONUMENT THROUGHOUT THE PROJECT. PROVIDE A VISUAL MARK ON THE MONUMENT THAT IDENTIFIES THE ELEVATION OF THE ORDINARY HIGH WATER MARK (OHWM) AND ELEVATION 718.6.

2. FOLLOW THE REQUIREMENTS IN ITEM 502 FOR STRUCTURES FOR MAINTAINING TRAFFIC AND IN ITEM 503 FOR COFFERDAMS AND EXCAVATION BRACING AND ANY MODIFICATIONS TO THESE ITEMS AS SHOWN IN THE PLANS. THE DEPARTMENT WILL NOT PAY FOR REPAIR AND MAINTENANCE OF TAFS ASSOCIATED WITH ITEMS 502 AND 503 AS A RESULT OF SURFACE WATER ELEVATION EXCEEDING 718.60. COMPENSATION FOR DAMAGES ASSOCIATED WITH WATERWAY FLOWS WILL BE PROVIDED AS DESCRIBED IN ITEMS 502 AND 503.

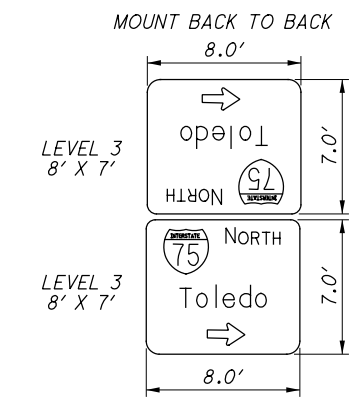
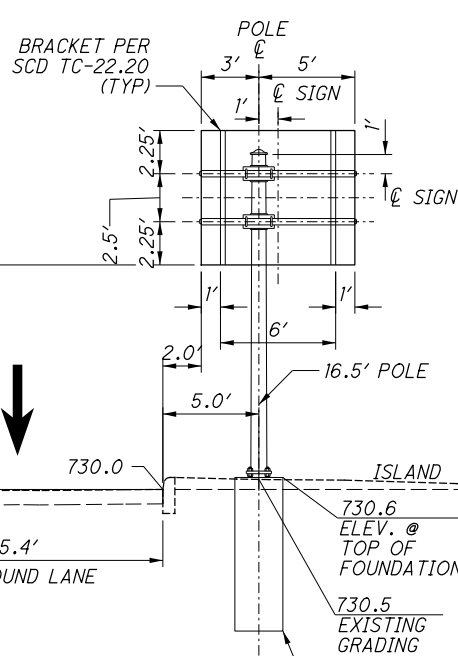
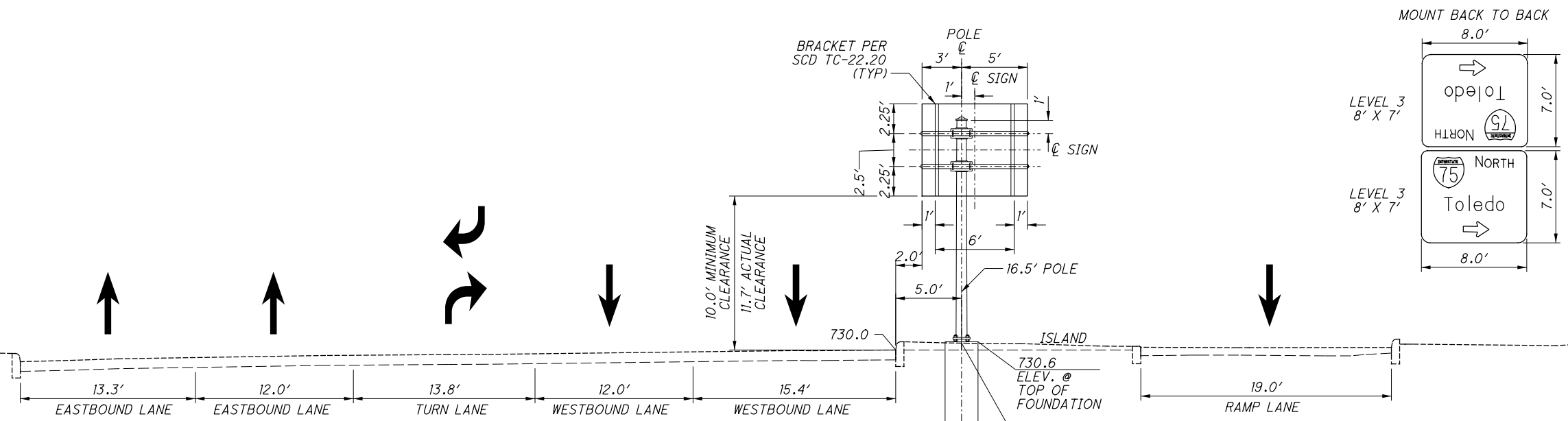
3. IF THE POOL ELEVATION OF THE WATERWAY EXCEEDS 718.6, AS READ FROM THE ELEVATION MONUMENT, THE CONTRACTOR IS ENTITLED TO AN EXCUSABLE, NON-COMPENSABLE DELAY IN ACCORDANCE WITH SECTION 108.06 OF THE CONSTRUCTION & MATERIALS SPECIFICATIONS.

4. A COMPLETE SPAN OF THE WATERWAY IS NOT ALLOWED WITH THE CAUSEWAY. A MINIMUM OF 115-FEET, AS MEASURED PARALLEL WITH THE ROADWAY CENTERLINE, SHALL REMAIN OPEN AND FREE OF CAUSEWAY MATERIAL AT ALL TIMES. THE CONTRACTOR SHALL PHASE WORK IN ORDER TO MAINTAIN THE REQUIRED OPENING AT ALL TIMES.

5. CAUSEWAY MATERIAL MAY NOT EXCEED ELEVATION 717.0 WITHIN THE LIMITS OF THE WATERWAY.

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EX LA-R/W



STA. 14+10 - EDWIN C. MOSES BLVD.  
 DESIGN TC-9.10  
 DESIGN 2  
 16.5' POLE, 8' ARMS

(OHS-6)

NOTE: THE CONTRACTOR SHALL INSTALL THE PROPOSED SUPPORT IN THE SAME LOCATION AS THE EXISTING SUPPORT. ANY DAMAGE TO THE EXISTING CONCRETE ISLAND AS A RESULT OF THE INSTALLATION OR REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

0	5	10
2.5' HORIZONTAL SCALE IN FEET		
CALCULATED	MJC	CHECKED
		BBD

**SIGN ELEVATION DETAIL**  
**OHS-6 - STA. 14+10**

**MOT-75-(10.44)(10.78)**



**625, LIGHT POLE ANCHOR BOLTS ON STRUCTURES**

WHEN A LIGHT POLE IS MOUNTED ON THE MEDIAN OF A BRIDGE, PARAPET OR ON A RETAINING WALL, THE REQUIRED ANCHOR BOLTS MAY DIFFER IN LENGTH AND/OR SHAPE FROM THOSE REQUIRED WHEN THE POLE IS MOUNTED ON A CAST-IN-PLACE DRILLED SHAFT FOUNDATION. THE COST DIFFERENTIAL FOR FURNISHING SUCH BOLTS IS INCLUDED HEREIN.

IN ADDITION, THERE IS NO FOUNDATION CONSTRUCTION ITEM IN WHICH TO INCLUDE THE SETTING OF THE ANCHOR BOLTS. THUS, THE SETTING OF THE ANCHOR BOLTS INTO THE MEDIAN RAILING OR PILASTER IS ALSO PART OF THIS WORK.

PAYMENT WILL BE MADE AT EACH SUCH POLE LOCATION AT THE UNIT PRICE BID FOR EACH C&MS ITEM 625, "LIGHT POLE ANCHOR BOLTS ON STRUCTURE" AND SHALL BE FULL COMPENSATION FOR FURNISHING AND PLACING THE SET OF ANCHOR BOLTS REQUIRED.

**PADLOCKS AND KEYS**

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYPED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

**UNDERDRAINS FOR PULL BOXES**

REFERENCE IS MADE TO STANDARD CONSTRUCTION DRAWINGS FOR DETAILS ON DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE A SATISFACTORY OUTLET DOES NOT EXCEED 20 FEET. AN ESTIMATED QUANTITY OF 160 FEET OF ITEM 611 - 4" CONDUIT, TYPE E, IS INCLUDED IN THE GENERAL SUMMARY FOR THIS PURPOSE.

**625, LUMINAIRE REMOVED, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF ITEM 625, THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING UNDERPASS LUMINAIRES AND LIGHTING SYSTEM INCLUDING ALL CABLE, CONDUITS, AND CONDUIT SUPPORTS THAT ARE TO BE ABANDONED BY THE NEW SYSTEM UNDER THIS PROJECT. CONDUIT THAT IS BURIED UNDERGROUND OR ENCASED IN CONCRETE DOES NOT NEED TO BE REMOVED.

PAYMENT FOR THIS ITEM SHALL INCLUDE ALL NECESSARY LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO REMOVE THE EXISTING LIGHTING SYSTEM INDICATED IN THE PLANS.

**625, LUMINAIRE, CONVENTIONAL, HPS, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS WITH AN IES II-M-SC DISTRIBUTION AND 250 WATT HIGH PRESSURE SODIUM LAMPS SHALL BE AMERICAN ELECTRIC "SERIES I25" WITH PHOTOMETRIC DISTRIBUTION AE3849I (ADJUST LUMEN VALUE FOR 250W HPS), COOPER "OVX" WITH PHOTOMETRIC DISTRIBUTION OVX25SXX2DF (ADJUST LUMEN VALUE FOR 250W HPS), GENERAL ELECTRIC "M-400" WITH PHOTOMETRIC DISTRIBUTION 1014 (ADJUST LUMEN VALUE FOR 250W HPS), OR EQUAL AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, "LUMINAIRE, CONVENTIONAL, HPS, AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

**625, LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, WALL MOUNTED**

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR UNDERPASS LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES FOR UNDERPASS LIGHTING UNITS SHALL BE GENERAL ELECTRIC "EVOLVE N-SERIES (EWN) EWNXC4540INGRAYFR, 7181 LUMENSASYMETRIC FORWARD, HOLOPHANE "WALL PACK IV" W4P LED 10C 700 40K T3M" 2183 LUMENS WALL MOUNT, ELECTROMATIC AR-SERIES F2E MOUNT, LE3T4S084EF2E0XSOH 6593 LUMENS (T4S), COOPER LIGHTING "WALPAK SERIES" WKP6BLEDEUGLBIK10K7040BDU, OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRES FOR UNDERPASS LIGHTING UNIT WHICH ARE WALL MOUNTED SHALL BE FURNISHED WITH AN INTEGRAL FUSE HOLDER AND 10-AMPERE FUSES. THE LIGHTING UNITS SHALL BE BLACK AND EQUIPPED WITH BIRD SPIKES.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER ITEM 625, "LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

**625, CONNECTION, UNFUSED PERMANENT, AS PER PLAN**

FURNISH AND INSTALL A SPLICE KIT CONFORMING TO THE REQUIREMENTS OF 625.18 AND 725.15E. IN ADDITION, THE SPLICE KIT SHALL HAVE A RIGID TRANSPARENT SPLICE ENCLOSURE AND THE EPOXY USED SHALL BE NON-SHRINKING.

THIS ITEM IS ONLY NEEDED WHEN A TIE-IN SITUATION EXISTS WHERE AN EXISTING CABLE IS SPLICED TO A NEW CABLE. WHEN ALL NEW LEAD-IN WIRE IS SPECIFIED IN THE PLAN, THIS ITEM OF WORK IS NOT REQUIRED.

PAYMENT FOR THIS ITEM SHALL INCLUDE ALL NECESSARY LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO PROVIDE FOR ITEM 625, CONNECTION, UNFUSED PERMANENT, AS PER PLAN. BASIS OF PAYMENT WILL BE AT CONTRACT BID PRICE PER EACH.

**625, POWER SERVICE, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

DAYTON POWER AND LIGHT  
1900 DRYDEN RD, DAYTON, OH 45439  
(937) 331-4132  
MICHAEL KOHR

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

**SPECIAL, MAINTAIN EXISTING LIGHTING**

EXISTING ROADWAYS WHICH ARE TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION OF THIS PROJECT AND WHICH ARE LIGHTED SHALL HAVE THE LIGHTING MAINTAINED AS DESCRIBED HEREIN.

BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF THE EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. DURING THIS INSPECTION, A WRITTEN RECORD OF THE CONDITION OF EXISTING LIGHTING SHALL BE MADE BY ODOT'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL LUMINAIRES WHICH ARE NOT IN WORKING ORDER, INDIVIDUAL POLES WHICH ARE NOT STANDING, AND INDIVIDUAL CIRCUITS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR.

IF, AS A RESULT OF THIS INSPECTION, IT IS DETERMINED THAT THE CONDITION OF THE EXISTING SYSTEM IS BELOW THAT REQUIRED FOR THE SAFETY OF THE TRAVELING PUBLIC, THEN THE MAINTAINING AGENCY SHALL MAKE THE REPAIRS NECESSARY TO RETURN THE SYSTEM TO AN ACCEPTABLE CONDITION. FOLLOWING THESE REPAIRS, THE SYSTEM SHALL AGAIN BE INSPECTED AND A REPORT SHALL BE MADE AND SIGNED AS OUTLINED HEREIN.

WHEN THE EXISTING SYSTEM IS IN AN ACCEPTABLE CONDITION, IT SHALL BE TURNED OVER TO THE CONTRACTOR WHO SHALL THEN BE REQUIRED TO MAINTAIN THE EXISTING LIGHTING TO THE CONDITION OUTLINED IN THIS REPORT WITH THE EXCEPTION OF KNOCKDOWNS DUE TO TRAFFIC ACCIDENTS.

REPLACEMENT OF KNOCKED DOWNED UNITS SHALL BE DONE ONLY WHEN THE ENGINEER HAS DETERMINED THAT THE REPLACEMENT OF THE KNOCKED DOWN UNIT IS NECESSARY AND SHALL BE PAID SEPARATELY ON A UNIT BASIS.

BETTERMENTS SHALL BE COVERED IN ITEMS OF WORK PERTAINING TO THE CONSTRUCTION OF PERMANENT IMPROVEMENT.

WHEN THE SEQUENCE OF CONSTRUCTION ACTIVITIES REQUIRES, OR SHOULD THE CONTRACTOR DESIRE, THE REMOVAL OF THE EXISTING LIGHTING BEFORE THE NEW LIGHTING IS OPERATIONAL, THE CONTRACTOR IS NOT REQUIRED TO PROVIDE TEMPORARY LIGHTING OF THIS PORTION OF THE ROADWAY.

ALL MATERIALS NECESSARY TO COMPLETE THE TEMPORARY LIGHTING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WHEN NO LONGER NEEDED, THE TEMPORARY LIGHTING INSTALLATION SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

THE MAINTAINING AGENCY WILL PAY FOR ELECTRICAL ENERGY CONSUMED BY EXISTING POWER SERVICES AND BY PROPOSED PERMANENT POWER SERVICES AFTER ACCEPTANCE OF THE LIGHTING WORK. THE CONTRACTOR WILL PAY FOR ELECTRICAL ENERGY, INSTALLATION, REMOVAL AND MAINTENANCE OF ANY TEMPORARY POWER SERVICES.

CROSSOVERS: THE EXISTING LIGHTING CIRCUITS IN THE MEDIAN SHALL BE MAINTAINED DURING THE MAINTENANCE OF TRAFFIC PHASES. THE EXISTING LIGHTING CIRCUITS IN THE MEDIAN LIGHTING CONDUITS SHALL BE RELOCATED AND MAINTAINED DURING ALL MOT PHASES. THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRIC UTILITY TO DEENERGIZE THE EXISTING CIRCUITS AND ENERGIZE TEMPORARY CIRCUIT CONNECTION MADE BY THE CONTRACTOR. MAXIMUM CIRCUIT OUTAGE TO BE 12 HOURS.

EXISTING LOW MAST LIGHT POLES AND LUMINAIRES REMOVED SHALL BE STORED FOR REINSTALLATION ON NEW LIGHT POLE FOUNDATIONS. THE CONVENTIONAL LIGHT POLES AND LUMINAIRES REMOVED SHALL PROPERLY BE DISPOSED OF BY THE CONTRACTOR.

THE LUMP SUM BID FOR ITEM SPECIAL - MAINTAIN EXISTING LIGHTING, SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS, INCIDENTALS, AND TEMPORARY POWER SERVICES NECESSARY TO MAINTAIN THE EXISTING LIGHTING AS SPECIFIED HEREIN.

CALCULATED  
MEM  
CHECKED  
M/JM

LIGHTING GENERAL NOTES

MOT - 75 - (10.44) (10.78)

178  
348

SHEET NUMBER										PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
								178	181	182								
													514	27710	762	FT	FIELD PAINTING, MISC.: LIGHTING CONDUIT AND REPAIR	179
										762								
										160			611	00400	160	FT	4" CONDUIT, TYPE E	
													625	00450	10	EACH	CONNECTION, FUSED PULL APART	
													625	00481	23	EACH	CONNECTION, UNFUSED PERMANENT, AS PER PLAN	178
													625	10490	5	EACH	LIGHT POLE, CONVENTIONAL, DESIGN A8BB41.7	
													625	10614	20	EACH	LIGHT POLE ANCHOR BOLTS ON STRUCTURE	
													625	23200	10,182	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
													625	23300	1,570	FT	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE	
													625	23400	505	FT	NO. 10 AWG POLE AND BRACKET CABLE	
													625	25300	420	FT	CONDUIT, 1-1/2", 725.04	
													625	25400	1,694	FT	CONDUIT, 2", 725.04	
													625	25500	1,725	FT	CONDUIT, 3", 725.04	
													625	26251	10	EACH	LUMINAIRE, CONVENTIONAL, HPS, AS PER PLAN	178
													625	27503	18	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, WALL MOUNTED	178
													625	29002	1,532	FT	TRENCH, 24" DEEP	
													625	29901	28	EACH	JUNCTION BOX, AS PER PLAN	179
													625	29940	6	EACH	BARRIER JUNCTION BOX	
													625	30700	8	EACH	PULL BOX 725.08, 18"	
													625	32000	2	EACH	GROUND ROD	
													625	33000	2	EACH	STRUCTURE GROUNDING SYSTEM	
													625	34001	2	EACH	POWER SERVICE, AS PER PLAN	178
													625	34450	2	EACH	CONTROL CENTER CABINET, COMPLETE	
													625	36000	1,532	FT	PLASTIC CAUTION TAPE	
													625	37101	2	EACH	SERVICE TO UNDERPASS LIGHTING, AS PER PLAN	179
													625	40000	LS		SPECIAL-MAINTAIN EXISTING LIGHTING	178
													625	75400	4	EACH	LIGHT POLE REMOVED	
													625	75507	26	EACH	LUMINAIRE REMOVED, AS PER PLAN	178
													625	75801	4	EACH	DISCONNECT CIRCUIT, AS PER PLAN	179

**LIGHTING GENERAL SUMMARY**

CALCULATED  
MEM  
CHECKED  
ASW

**MOT-75-10.44)(10.78)**

MADE BY: GMW DATE: 7/16/2017  
 CHECKED BY: DTA DATE: 7/17/2017

ESTIMATED QUANTITIES

STRUCTURAL FILE NUMBER: 5707056

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	6, 10, 12, AND 23 THRU 31 OF 91
202	22900	669	SY	APPROACH SLAB REMOVED				669	
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING	LUMP				
503	21300	LUMP		UNCLASSIFIED EXCAVATION	LUMP				
504	11101	978	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (SECTION MODULUS = 21.5 IN3/FT)	978				26 AND 27 OF 91
504	11101	1,441	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (SECTION MODULUS = 33.5 IN3/FT)	1,441				29 AND 30 OF 91
509	10000	1,216,251	LB	EPOXY COATED REINFORCING STEEL	22,827		1,190,601	2,823	
509	20000	500	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	500				
510	10000	366	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	366				
511	34446	3,761	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			3,761		
511	34450	752	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			718	34	
511	44110	129	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	129				
511	53014	33	CY	CLASS QC3 CONCRETE, MISC.: MODULAR EXPANSION JOINT, AS PER PLAN				33	86 OF 91
512	10100	3,669	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	441		3,228		
512	33000	17	SY	TYPE 2 WATERPROOFING	17				
513	10201	29,676	LB	STRUCTURAL STEEL MEMBERS, LEVEL UP, AS PER PLAN			29,676		6 AND 48 OF 91
513	10281	235,606	LB	STRUCTURAL STEEL MEMBERS, LEVEL 4, AS PER PLAN			235,606		45 OF 91
513	17001	286	FT	STRUCTURAL STEEL MEMBERS, MODULAR EXPANSION JOINT, LEVEL UP, AS PER PLAN			286		6, 7, AND 84 THRU 87 OF 91
513	20000	52,614	EACH	WELDED STUD SHEAR CONNECTORS			52,614		
513	95020	LUMP		STRUCTURAL STEEL, MISC.: TEMPORARY SUPPORT OF EXISTING STRUCTURE			LUMP		46 OF 91
514	00050	11,720	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			11,720		
514	00057	11,720	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN			11,720		47 OF 91
514	00060	22,878	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			22,878		
514	00066	22,878	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			22,878		
514	10000	1	EACH	FINAL INSPECTION REPAIR			1		
516	13200	396	SF	1/2" PREFORMED EXPANSION JOINT FILLER	44			352	
516	13600	198	SF	1" PREFORMED EXPANSION JOINT FILLER				198	
516	44101	15	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 2.2988" WITH 23" x 28" x 1.625" LOAD PLATE)	15				40 OF 91
516	44101	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 2.2988" WITH 23" x 28" x 1.875" LOAD PLATE)	16				40 OF 91
516	44201	30	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 23" x 28" x 1.5625" LOAD PLATE)		30			41 OF 91
516	44201	32	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 23" x 28" x 1.8125" LOAD PLATE)		32			41 OF 91
516	44201	15	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 23" x 28" x 0.5" LOAD PLATE)		15			42 OF 91
516	44201	17	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 23" x 28" x 1.0" LOAD PLATE)		17			42 OF 91
516	44201	7	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 18" x 28" x 3.375" LOAD PLATE)		7			43 OF 91
516	44201	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17" x 22" x 3.3232" WITH 18" x 28" x 3.875" LOAD PLATE)		8			43 OF 91
516	47000	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE				LUMP	
518	12301	33	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN			33		55 OF 91
518	21201	179	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN	179				32 THRU 39 OF 91
518	40000	307	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	307				
518	40011	136	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	136				35 AND 39 OF 91
526	25011	693	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15'), AS PER PLAN				693	83 OF 91
526	90020	160	SY	TYPE B INSTALLATION				160	
607	39900	262	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC			262		

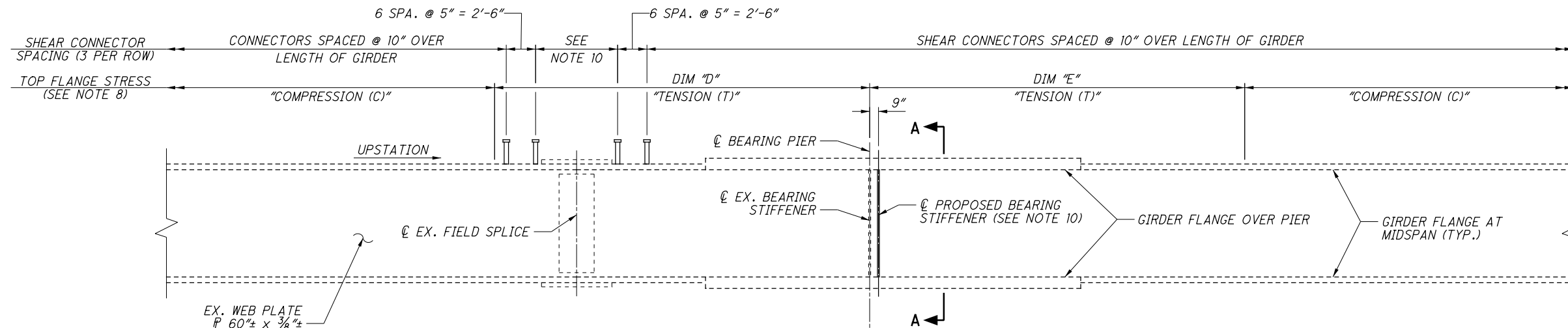


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 STRUCTURE FILE NUMBER: 5707056  
 DRAWN: GMW  
 CHECKED: CJW

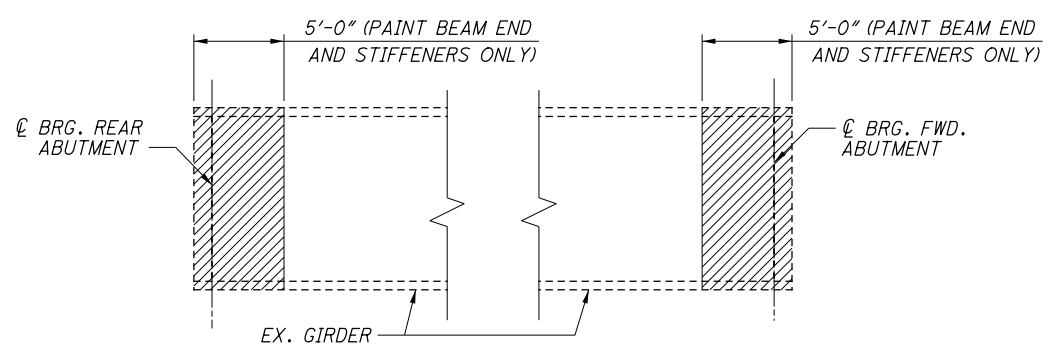
ESTIMATED QUANTITIES  
 BRIDGE NO. MOT-75-1044  
 OVER THE GREAT MIAMI RIVER AND CARILLON BOULEVARD

MOT-75-(10.44)(10.78)  
 PID No. 91606

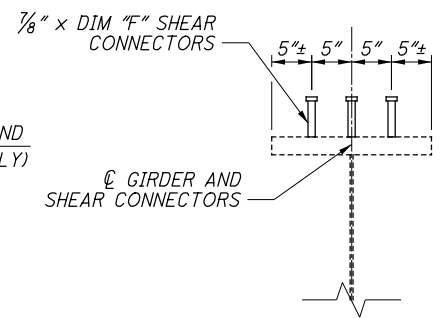
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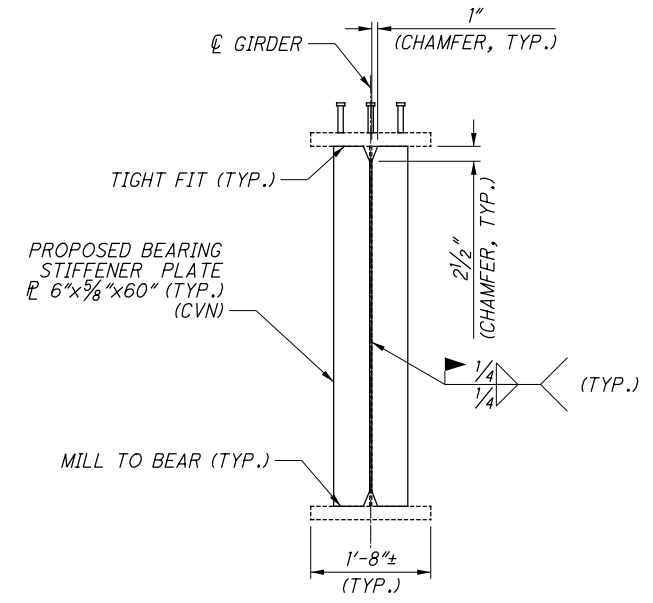
**PARTIAL GIRDER ELEVATION**  
 (TYPICAL ALL GIRDERS AND ALL PIERS)  
 (PIERS 1, 2, 3, 5, 6, AND 7 SHOWN)  
 (TRANSVERSE STIFFENERS NOT SHOWN FOR CLARITY)



**PARTIAL GIRDER ELEVATION - BEAM END PAINTING**  
 (TYPICAL ALL GIRDERS @ FWD. AND REAR ABUTMENTS)



**SHEAR CONNECTOR DETAIL**



**SECTION A-A**

SHEAR CONNECTOR DATA		
GIRDER	CONNECTOR HEIGHT, DIM "F"	CONNECTOR QUANTITY
A	6"	3,315
B	6"	1,089
C	6"	2,559
D	6"	3,345
E	6"	3,348
F	6"	3,351
G	6"	3,357
H	6"	3,360
J	6"	3,363
K	6"	3,366
L	6"	3,369
M	6"	3,375
N	6"	3,378
O	6"	3,381
P	6"	3,387
Q	6"	1,578
R	6"	3,396

GIRDER	PIER 1		PIER 2		PIER 3		PIER 4		PIER 5		PIER 6		PIER 7	
	DIM "D"	DIM "E"	DIM "D"	DIM "E"	DIM "D"	DIM "E"	DIM "D"	DIM "E"	DIM "D"	DIM "E"	DIM "D"	DIM "E"	DIM "D"	DIM "E"
A	27'-4"	34'-1"	26'-5"	25'-3"	29'-0"	27'-11"	22'-11"	23'-2"	29'-4"	29'-4"	21'-4"	27'-4"	33'-3"	23'-0"
B	-	-	-	-	-	-	-	-	-	-	21'-5"	26'-3"	32'-5"	22'-10"
C	-	-	22'-5"	22'-4"	28'-5"	28'-5"	22'-5"	22'-9"	29'-4"	29'-6"	21'-6"	27'-6"	33'-8"	23'-2"
D	27'-3"	34'-0"	31'-2"	25'-5"	29'-2"	28'-6"	22'-11"	23'-0"	28'-9"	29'-1"	22'-1"	28'-9"	34'-7"	23'-6"
E	27'-4"	34'-2"	27'-3"	25'-9"	29'-0"	28'-3"	22'-7"	22'-9"	28'-10"	29'-3"	22'-2"	28'-10"	34'-6"	23'-6"
F	27'-4"	34'-2"	27'-3"	25'-10"	29'-0"	28'-4"	22'-7"	22'-9"	28'-11"	29'-2"	22'-4"	29'-0"	34'-8"	23'-7"
G	27'-4"	34'-2"	27'-3"	25'-9"	29'-0"	28'-2"	22'-6"	22'-9"	29'-0"	29'-3"	22'-4"	29'-1"	34'-11"	23'-9"
H	27'-4"	34'-2"	27'-3"	25'-9"	29'-1"	28'-4"	22'-6"	22'-9"	29'-1"	29'-2"	22'-5"	29'-4"	34'-10"	23'-1"
J	27'-4"	34'-2"	27'-3"	25'-10"	29'-1"	28'-3"	22'-6"	22'-9"	29'-2"	29'-2"	22'-7"	29'-5"	34'-11"	23'-10"
K	27'-4"	34'-2"	27'-5"	25'-9"	29'-3"	28'-3"	22'-6"	22'-9"	29'-4"	29'-1"	22'-6"	29'-5"	35'-1"	24'-0"
L	27'-4"	34'-2"	27'-3"	25'-9"	29'-1"	28'-2"	22'-6"	22'-9"	29'-4"	29'-3"	22'-8"	29'-6"	35'-2"	23'-11"
M	27'-4"	34'-2"	27'-3"	25'-9"	29'-1"	28'-4"	22'-5"	22'-9"	28'-11"	29'-2"	22'-9"	29'-6"	35'-6"	25'-5"
N	27'-4"	34'-2"	27'-3"	25'-10"	29'-1"	28'-2"	22'-5"	22'-9"	29'-6"	29'-2"	22'-9"	29'-10"	35'-4"	24'-1"
O	27'-4"	34'-2"	27'-3"	25'-9"	29'-1"	28'-3"	22'-5"	22'-9"	29'-7"	29'-3"	22'-10"	29'-10"	35'-5"	24'-2"
P	27'-4"	34'-2"	27'-3"	25'-9"	29'-0"	28'-3"	22'-8"	23'-1"	29'-9"	29'-0"	22'-8"	29'-5"	35'-2"	24'-2"
Q	-	-	-	-	-	-	-	-	29'-8"	29'-10"	22'-6"	29'-5"	36'-5"	24'-11"
R	27'-4"	34'-1"	27'-3"	25'-9"	28'-10"	28'-2"	23'-5"	23'-2"	29'-7"	29'-10"	22'-8"	29'-3"	35'-2"	24'-2"

**LEGEND:**

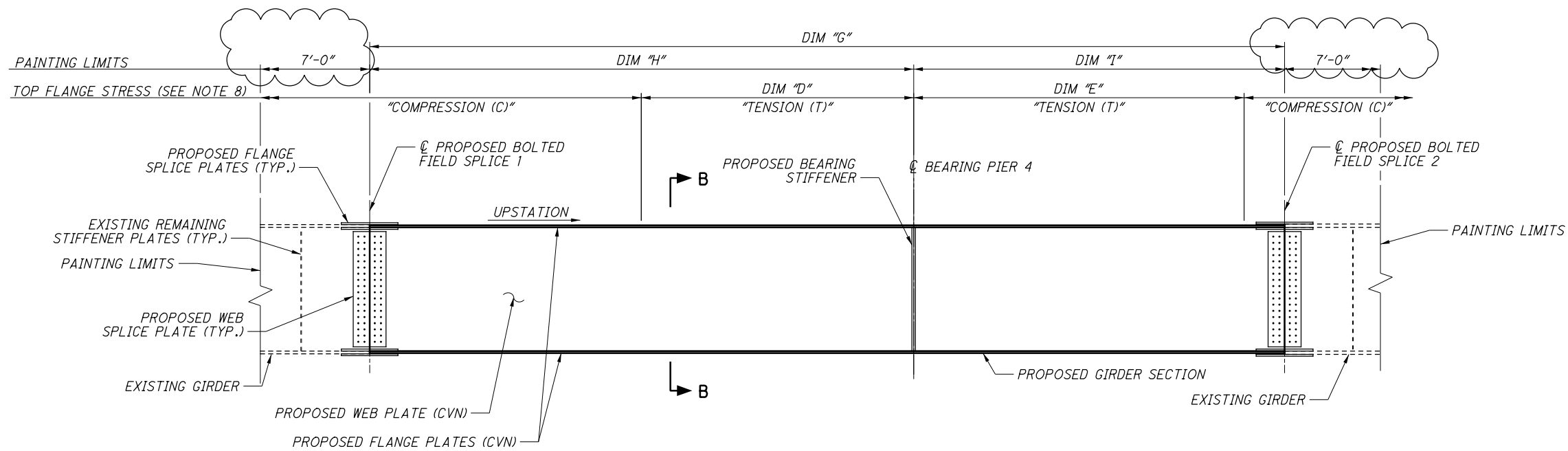
REPAINT BEAM ENDS PER ITEM 514

**NOTES:**

- ALL DIMENSIONS SHOWN ARE HORIZONTAL.
- PAINT THE ENTIRE SURFACE AREA OF ALL NEW STRUCTURAL STEEL AS PER ITEM 514. PAINT EXISTING STRUCTURAL STEEL TO THE LIMITS SHOWN IN THE PLANS AS PER ITEM 514. STEEL FOR THE PROPOSED BEARING ASSEMBLIES SHALL NOT BE PAINTED.
- ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50.
- FOR FRAMING PLAN, SEE SHEET [44/91].
- FOR CROSSFRAME DETAILS, SEE SHEET [48/91].
- FOR BEARING DETAILS, SEE SHEET [40/91] THRU [43/91].
- FOR BOLTED FIELD SPLICE DETAILS, SEE SHEET [47/91].
- WELD ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA BEAM FLANGES DESIGNATED "COMPRESSION (C)". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION (T)". FILLET WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" FOR THICKNESS UP TO 3/4" OR 5/16" FOR GREATER THAN 3/4" THICK.
- SHEAR CONNECTORS SHALL NOT BE WELDED TO SPLICE PLATES. IN THE REGION OF A SPLICE, SHEAR CONNECTORS SHALL BE INSTALLED TO WITHIN 2" OF THE SPLICE PLATE.
- PROPOSED BEARING STIFFENERS ARE TO BE INSTALLED TO EXISTING GIRDER SECTIONS AT ALL BEARING LOCATIONS AT PIERS 1, 2, 3, 5, 6, AND 7. FOR PIER 4 STIFFENER DETAILS, SEE SHEET [46/91]. WORK IS TO BE PERFORMED WHEN DECK IS REMOVED.
- THE CONTRACTOR SHALL MOVE PROPOSED SHEAR STUDS WHICH AS DETAILED WOULD INTERFERE WITH PLACEMENT OF THE PROPOSED SCUPPERS. SHEAR STUDS TO BE MOVED SHALL BE PLACED WITHIN 2" OF THE PROPOSED SCUPPERS. FOR PROPOSED SCUPPER DETAILS, SEE SHEET [55/91].
- CVN: WHERE A SHAPE OR PLATE IS DESIGNATED (CVN), FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 7H-Q1.
- ALL LABOR, MATERIALS, TESTING AND INCIDENTALS REQUIRED REPAIR THE PAINT ON THE EXISTING STRUCTURAL STEEL DUE TO THE INSTALLATION OF BEARING STIFFENERS AT PIERS 1, 2, 3, 5, 6, AND 7 SHALL BE PAID FOR UNDER ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 4, AS PER PLAN.
- PAINT FOR THE PROPOSED BEARING STIFFENERS AT PIERS 1, 2, 3, 5, 6, AND 7 SHALL BE INCLUDED UNDER ITEM 516 FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT AND ITEM 516 - FIELD PAINTING OF STRUCTURAL STEEL FINISH COAT.

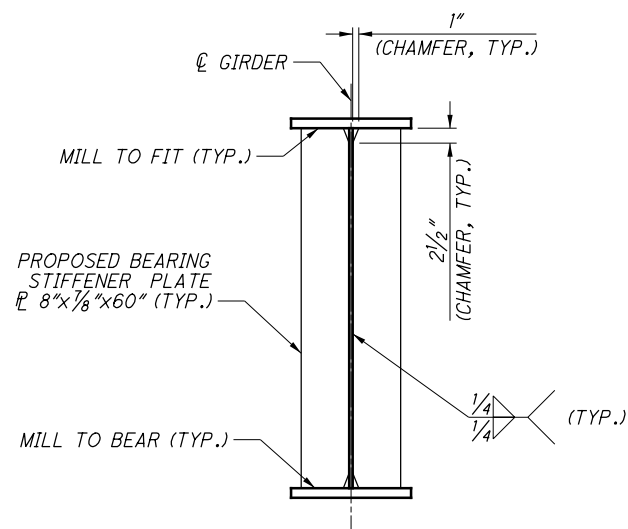
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**ELEVATION OF PROPOSED GIRDER SECTION**

(TYPICAL GIRDERS A, C THRU P, AND R)  
 (ALL DIMENSIONS ARE ALONG GIRDER CENTERLINES, NOT @ I.R. 75)  
 (ALL DIMENSIONS MEASURED FROM SPLICE @S)



**SECTION B-B**

**NOTES:**

1. PAINT THE ENTIRE SURFACE AREA OF ALL NEW STRUCTURAL STEEL AS PER ITEM 514. PAINT EXISTING STRUCTURAL STEEL TO THE LIMITS SHOWN IN THE PLANS AS PER ITEM 514. STEEL FOR THE PROPOSED BEARING ASSEMBLIES SHALL NOT BE PAINTED. SEE SHEET [47/91] FOR PAINTING OF THE BOLTED SPLICE CONNECTIONS.
2. ALL PROPOSED STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50.
3. FOR HINGE REMOVAL DETAILS AND FRAMING PLAN SEE, SHEETS [24/91] AND [25/91].
4. FOR PARTIAL FRAMING PLAN AND CROSSFRAME DETAILS, SEE SHEETS [44/91] AND [48/91].
5. FOR SPLICE PLATE DETAILS, SEE SHEET [47/91].
6. FOR SHEAR CONNECTOR DETAILS, SEE SHEET [45/91].
7. CVN: WHERE A SHAPE OR PLATE IS DESIGNATED (CVN), FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01.
8. WELD ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA BEAM FLANGES DESIGNATED "COMPRESSION (C)". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION (T)". FILLET WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" THICKNESS UP TO 3/4" OR 3/16" FOR GREATER THAN 3/4" THICK. FOR DIMENSIONS "D" AND "E", SEE SHEET [45/91].

**ERECTION NOTES:**

ALL DIMENSIONS FOR THE PROPOSED SPLICED PLATE GIRDERS ARE MARKED WITH "±" DUE TO UNCERTAINTIES REGARDING THE ACTUAL GEOMETRY AND FIT-UP ALIGNMENT AT THE HINGE.

THE DIMENSIONS USE THE FOLLOWING ASSUMPTIONS: EQUAL GAPS ALONG THE HINGES BETWEEN BEAM AND GIRDER ENDS AT THE DESIGN OPENING AND TEMPERATURE; AND THE BEAMS AND GIRDERS ARE ERECTED AS PER THE PLAN ANGLES, TAPERS AND GRADE.

ACTUAL CONDITIONS MAY NOT EXACTLY MATCH THE ORIGINAL PLANS, THEREFORE ALL PROPOSED DIMENSIONS SHALL BE CAREFULLY FIELD VERIFIED.

GIRDER HINGE REPLACEMENTS ARE TO BE FULLY COMPLETED FOR ONE GIRDER AT A TIME.

A BRIEF, SUGGESTED SEQUENCE OF ERECTION IS AS FOLLOWS FOR EACH PHASE:

I. PRIOR TO DECK REMOVAL AND STEEL FABRICATION, SURVEY AND MEASURE HEIGHTS, LENGTHS, DOG-LEG BEND ANGLES, FLANGE THICKNESSES AND ANY OTHER NECESSARY MEASUREMENTS FOR ALL GIRDERS.

II. FABRICATE THE NEW GIRDERS PER THE MEASUREMENTS, EXCEPT THE GIRDER LENGTH IS TO BE 1/4" LONGER THAN NECESSARY. DRILL BOLT HOLES IN PROPOSED GIRDERS.

III. REMOVE A 50' LONG PORTION OF THE DECK CENTERED ON THE GIRDER SECTIONS TO BE REMOVED. THE REST OF THE DECK BETWEEN PIERS 2 AND 6 SHALL REMAIN IN PLACE DURING GIRDER ERECTION.

IV. INSTALL A TEMPORARY SUPPORT BEAM ON EACH SIDE OF PIER 4 SPANNING ALL GIRDERS INVOLVED IN THE CURRENT CONSTRUCTION PHASE. TEMPORARY SUPPORT BEAMS SHALL BE POSITIONED AND FASTENED TO SUPPORT THE CANTILEVERED BEAM SEGMENTS DURING REMOVAL AND REPLACEMENT OF EACH GIRDER SEGMENT.

THE FOLLOWING SEQUENCE SHOULD BE REPEATED FOR EACH GIRDER (ONE AT A TIME):

V. TAKE LAST LENGTH MEASUREMENTS AND MAKE THE FINAL ADJUSTMENT TO THE NEW GIRDER AND DRILL BOLT HOLES.

VI. REMOVE THE EXISTING GIRDER AND ROLLER SEGMENT AFTER DELIVERY OF THE NEW REPLACEMENT GIRDER SEGMENT.

VII. ATTACH ONE SIDE OF SPLICE PLATES AND FIT THE NEW GIRDER IN PLACE. SPLICE PLATES SHALL FIRST BE ALIGNED USING A MINIMUM OF TWO BARREL PINS. THEN BOLTS SHALL BE INSTALLED SNUG BUT NOT TIGHTENED. USE THE SPLICE PLATES AS A TEMPLATE TO MARK THE BOLT HOLE LOCATIONS IN THE EXISTING BEAMS AND GIRDERS. REMOVE THE SPLICE PLATE AND DRILL HOLES.

VIII. PLACE ALL OF THE SPLICE PLATES IN POSITION AND COMPLETE THE BOLTED CONNECTIONS.

IX. JACK AND RAISE THE SUPERSTRUCTURE. INSTALL NEW BEARINGS.

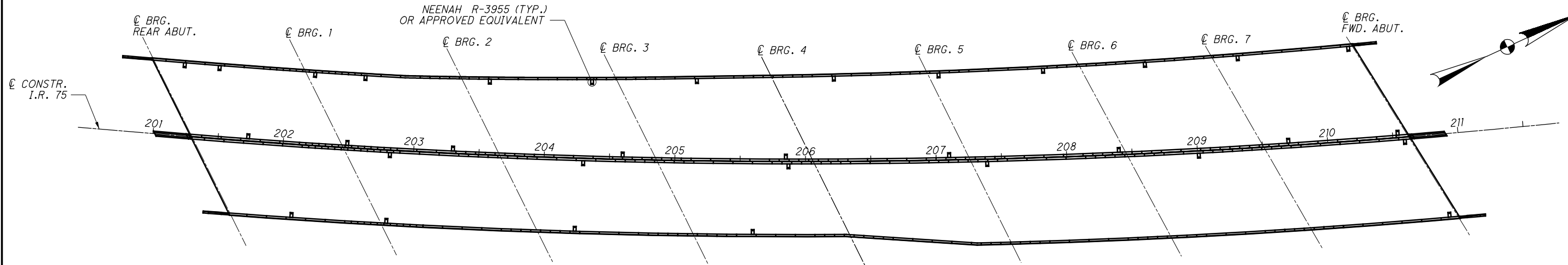
BEARING AND HINGE REPLACEMENT SHALL BE COMPLETED WITHIN 45 CONSECUTIVE CALENDAR DAYS FOR EACH PHASE. FAILURE TO COMPLETE THE WORK IN THIS TIME FRAME WILL RESULT IN LIQUIDATED DAMAGES BEING ASSESSED PER CMS 108.07.

THE CONTRACTOR MAY PROPOSE AN ALTERNATE SEQUENCE AS PART OF THEIR REQUIRED BEAM INSTALLATION PROCEDURE PURSUANT TO C&MS 501.05.B.4 AT NO ADDITIONAL COST TO THE DEPARTMENT.

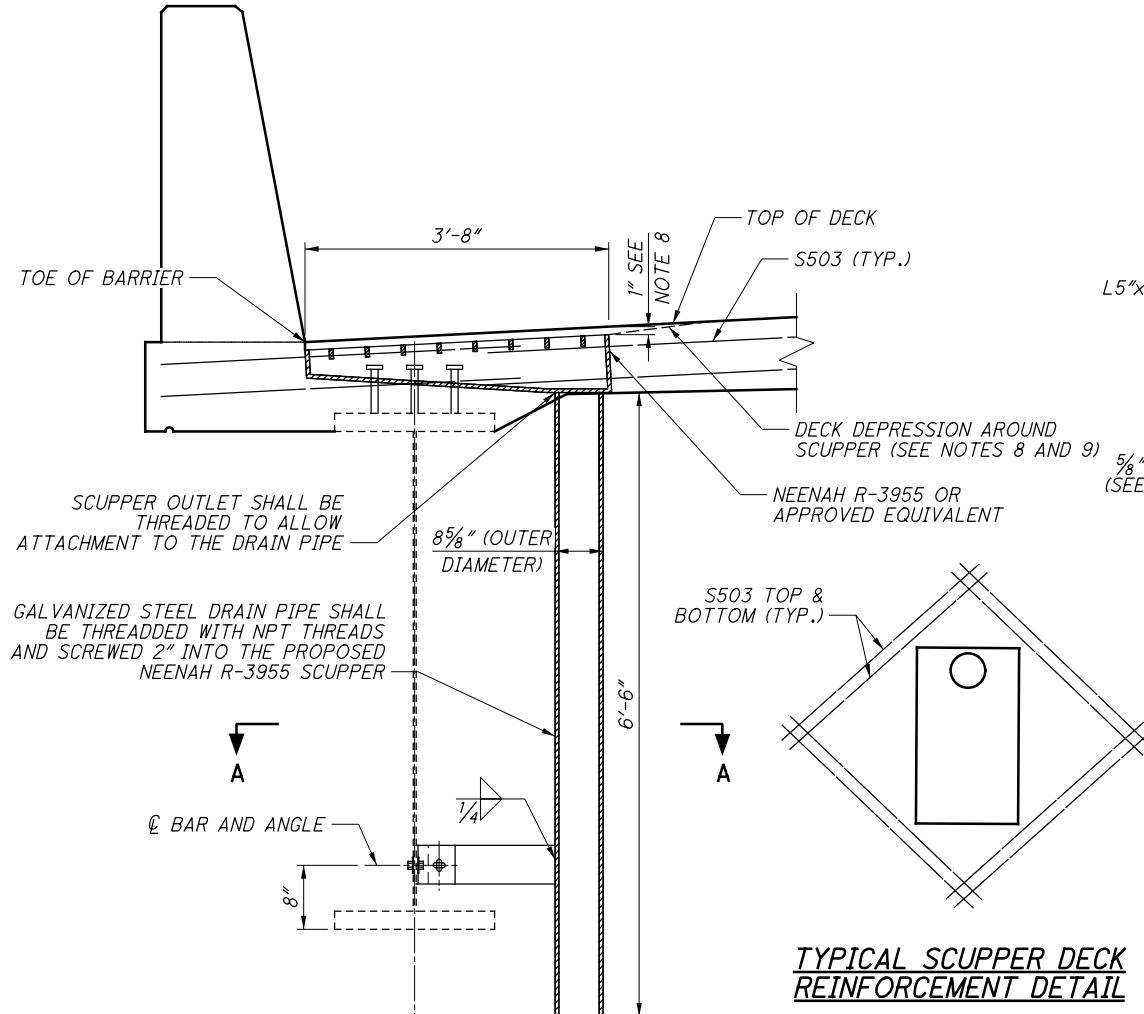
	PROPOSED GIRDER INFORMATION					CONTRACTOR'S FIELD MEASURED DIMENSIONS		
	DIM 'G'	DIM 'H'	DIM 'I'	FLANGE PLATES	WEB PLATE	DIM 'G'	DIM 'H'	DIM 'I'
GIRDER A	37'-8 7/8"±	22'-8 1/2"±	15'-0 3/8"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER C	37'-9 1/8"±	22'-8 5/8"±	15'-0 1/2"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER D	37'-10 1/2"±	22'-10 1/16"±	15'-0 7/16"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER E	37'-10 1/2"±	22'-10 1/16"±	15'-0 7/16"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER F	37'-10 1/2"±	22'-10 1/16"±	15'-0 7/16"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER G	37'-10 1/2"±	22'-10 1/16"±	15'-0 7/16"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER H	37'-10 1/2"±	22'-10 1/16"±	15'-0 7/16"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER J	37'-10 1/2"±	22'-10 1/16"±	15'-0 7/16"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER K	37'-10 1/2"±	22'-10 1/16"±	15'-0 7/16"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER L	37'-10 1/2"±	22'-10 1/16"±	15'-0 7/16"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER M	37'-10 1/2"±	22'-10 1/16"±	15'-0 7/16"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER N	37'-10 1/2"±	22'-10 1/16"±	15'-0 7/16"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER O	37'-10 1/2"±	22'-10 1/16"±	15'-0 7/16"±	PL 20" x 1" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER P	32'-10 1/2"±	22'-10 3/16"±	10'-0 5/16"±	PL 20" x 1 1/8" (CVN)	PL 60" x 9/16" (CVN)			
GIRDER R	33'-3"±	23'-3 11/16"±	9'-11 5/16"±	PL 20" x 1 1/8" (CVN)	PL 60" x 9/16" (CVN)			

P:\91606\structures\MOT075\_1044C\sheets\075\_1044CMD001.dgn 6/24/2020 3:56:50 PM gantonios

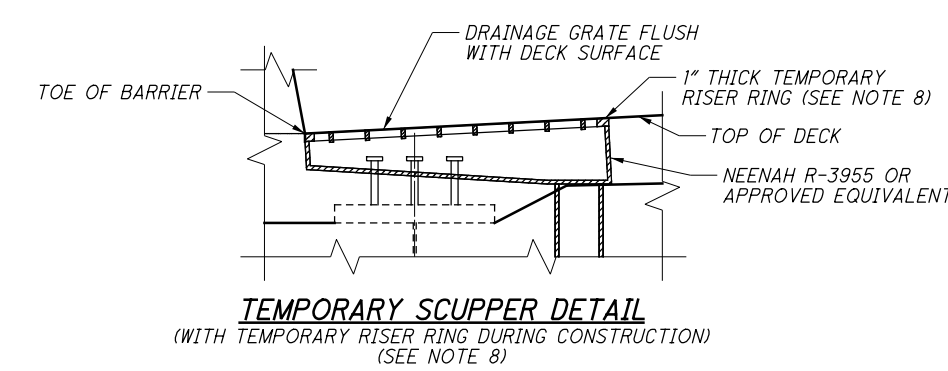
P:\91606\structures\MOT075\_1044\csheets\075\_1044CMD002.dgn 6/24/2020 3:56:52 PM gantonios



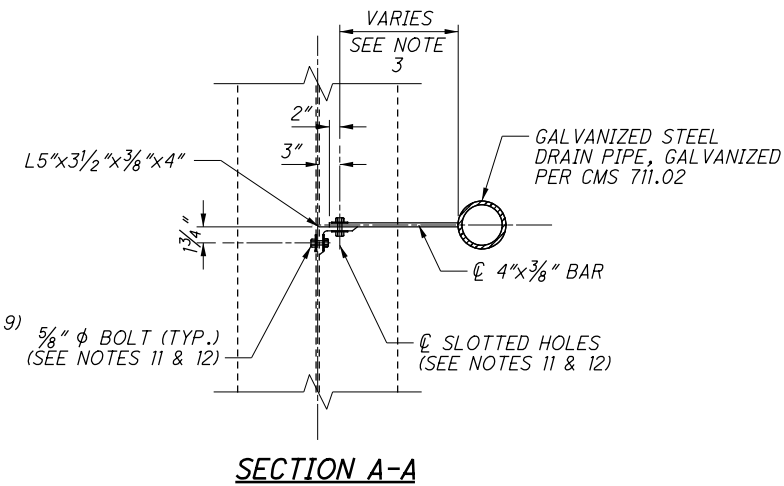
PLAN - PROPOSED SCUPPER LOCATIONS



FINAL SCUPPER DETAIL  
(FINAL CONFIGURATION)



TEMPORARY SCUPPER DETAIL  
(WITH TEMPORARY RISER RING DURING CONSTRUCTION)  
(SEE NOTE 8)



SECTION A-A

SCUPPER, LEFT BRIDGE - EXTERIOR SHOULDER	
STATION	SCUPPER FEATURE
201+20.00	*
201+47.00	*
202+21.00	*
202+60.00	*
203+56.00	*
204+35.00	*
205+16.00	*
206+22.00	*
207+03.00	*
207+84.00	*
208+63.00	*
209+35.00	**
210+21.00	**

SCUPPER, LEFT BRIDGE - INTERIOR SHOULDER	
STATION	SCUPPER FEATURE
201+73.00	*
202+49.00	*
203+30.00	*
204+60.00	*
205+85.00	*
207+10.00	*
208+40.00	*
209+70.00	*
210+54.00	*

SCUPPER, RIGHT BRIDGE - INTERIOR SHOULDER	
STATION	SCUPPER FEATURE
202+82.00	**
204+30.00	**
205+87.00	**
207+39.00	**
209+01.00	**
210+59.00	**

SCUPPER, RIGHT BRIDGE - EXTERIOR SHOULDER	
STATION	SCUPPER FEATURE
202+10.00	*
202+82.00	*
204+25.00	*
205+60.00	*
210+88.00	**

**LEGEND:**

- \* - DESIGNATES SCUPPERS THAT REQUIRE TEMPORARY RISER DURING CONSTRUCTION, SEE NOTE 8
- \*\* - DESIGNATES SCUPPERS THAT DO NOT REQUIRE TEMPORARY RISER DURING CONSTRUCTION, SEE NOTE 9

**NOTES:**

- THE CONTRACTOR SHALL MOVE SHEAR STUDS ON PROPOSED BEAMS AS NECESSARY IN ORDER TO AVOID PROPOSED SCUPPERS.
- FOR MORE INFORMATION NOT SHOWN, SEE ODOT STANDARD DRAWING GSD-1-96.
- LENGTH OF THE 4" x 3/8" BAR IS TO BE FIELD MEASURED PRIOR TO FABRICATION.
- ALL LABOR, MATERIALS, AND INCIDENTALS (INCLUDING EXISTING PAINT TO BE REPAIRED) NECESSARY TO FURNISH THE SCUPPER DRAINAGE SYSTEM AND THE GALVANIZED DRAIN PIPE IN TEMPORARY AND FINAL CONDITIONS SHALL BE PAID FOR UNDER ITEM 518 - SCUPPERS, INCLUDING SUPPORTS AS PER PLAN.
- FOR PHASE CONSTRUCTION SEQUENCING, SEE SHEETS 10/91 THRU 13/91.
- SCUPPERS SHALL BE ANCHORED TO STEEL BEAMS AND ANCHORING SHALL BE APPROVED BY ENGINEER PRIOR TO DECK PLACEMENT.
- FIELD CUT DECK REINFORCING AS NECESSARY TO ALLOW SCUPPER INSTALLATION. PAYMENT TO BE INCLUDED WITH ITEM 518 - SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN.
- SCUPPERS REQUIRING A TEMPORARY RISER RING SHALL BE INSTALLED WITH A SPACER RING OR SIMILAR DEVICE WHICH WILL ELEVATE THE GRATE TO BE FLUSH WITH THE ROADWAY SURFACE DURING CONSTRUCTION AND MAINTENANCE OF TRAFFIC. UPON COMPLETION OF CONSTRUCTION, THE SPACER RING OR SIMILAR DEVICE SHALL BE REMOVED AND THE FINAL DRAINAGE GRATE SURFACE SHALL BE DEPRESSED RELATIVE TO THE DECK SURFACE AS SHOWN. CONTRACTOR SHALL GRIND A DEPRESSION IN THE DECK CONCRETE AROUND THE SCUPPER TO ALLOW WATER TO FLOW INTO THE SCUPPER. THIS SHALL BE PAID FOR UNDER ITEM 518, SCUPPER, MISC.: (NEENAH R-3955 OR SIMILAR). SCUPPERS NOT REQUIRING A TEMPORARY RISER RING SHALL BE INSTALLED NORMALLY AND BE INSTALLED DEPRESSED RELATIVE TO THE DECK SURFACE AS SHOWN.
- FOR SCUPPERS NOT REQUIRING A TEMPORARY RISER RING, THE STANDARD DEPRESSION AT SCUPPER LOCATIONS SHOULD BE FORMED DURING DECK PLACEMENT.
- TO ORDER THE PROPOSED R-3955 SCUPPERS WITH RISER RINGS FROM NEENAH, THE CONTRACTOR MAY CONTACT LINETTA HAYWOOD WITH NEENAH BY PHONE OR EMAIL AT 614-562-7130 OR LINETTA.HAYWOOD@NEENAHENTERPRISES.COM. MAKE REFERENCE TO NEENAH CUSTOM DRAWINGS T2808 THROUGH T2810. COORDINATE WITH NEENAH TO ENSURE ALL SCUPPERS AND THE PROPOSED 8" DRAIN PIPES ARE PROPERLY THREADED TO MATE WITH EACH OTHER.
- THE SIZE OF THE SLOTTED HOLES SHALL BE 1/16" x 1 9/16". THE SLOT SHALL BE HORIZONTAL IN THE 4" x 3/8" BAR AND VERTICAL IN THE ANGLE. BOLTS SHALL BE 5/8" DIAMETER A325 TYPE 1, GALVANIZED, WITH HEX NUT AND TWO WASHERS. TIGHTEN ACCORDING TO 513.
- THE BOLTS SHALL BE 5/8" DIAMETER A325 TYPE 1 GALVANIZED. EACH ASSEMBLY SHALL INCLUDE A BOLT, NUT AND TWO WASHERS. TIGHTEN ACCORDING TO 513. AFTER THE DECK CONCRETE HAS BEEN POURED, FIELD DRILL THE 1 3/16" DIAMETER HOLE IN THE WEB.

**E.L. ROBINSON ENGINEERING**  
1801 Walmark Drive, Suite 310 - Columbus, Ohio 43215  
www.elrobinsonengineering.com

DATE: 7/2017  
DFT: STRUCTURE FILE NUMBER: 5707056

DESIGNED: TAS  
CHECKED: MRV

REVIEWED: DFT  
DFT: STRUCTURE FILE NUMBER: 5707056

DRAWN: FTB  
REVISED:

PROPOSED SCUPPER DETAILS  
BRIDGE NO. MOT-75-1044  
OVER THE GREAT MIAMI RIVER AND CARILLON BOULEVARD

MOT-75-(10.44)(10.78)  
PID No. 91606

55/91  
247  
348



MADE BY: GMW DATE: 7/16/2017  
 CHECKED BY: LAH DATE: 7/17/2017

ESTIMATED QUANTITIES

STRUCTURAL FILE NUMBER: 5707080

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	4, 15 TO 21, AND 31 TO 34 OF 57
202	22900	642	SY	APPROACH SLAB REMOVED				642	
202	32800	588	SY	CONCRETE SLOPE PROTECTION REMOVED				588	
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING	LUMP				
503	21300	LUMP		UNCLASSIFIED EXCAVATION	LUMP				
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION	LUMP				
507	00500	320	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	320				
507	00550	360	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	360				
509	10000	209,938	LB	EPOXY COATED REINFORCING STEEL	10,154	4,970	189,448	5,366	
510	10000	716	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	390	326			
511	33501	4	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	4				43 OF 57
511	34446	819	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			819		
511	34450	208	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			157	51	
511	41010	27	CY	CLASS QC1 CONCRETE, PIER ABOVE FOOTINGS		27			
511	43510	126	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING	126				
512	10100	1,750	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	138	641	971		
512	33000	14	SY	TYPE 2 WATERPROOFING	14				
513	10260	725,675	LB	STRUCTURAL STEEL MEMBERS, LEVEL 3			725,675		
513	20000	10,620	EACH	WELDED STUD SHEAR CONNECTORS			10,620		
514	00060	35,834	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			35,834		
514	00066	35,834	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			35,834		
516	13200	32	SF	1/2" PREFORMED EXPANSION JOINT FILLER	32				
516	13900	48	SF	2" PREFORMED EXPANSION JOINT FILLER	48				
516	14020	273	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	273				
516	44101	36	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11" x 15" x 2.948" WITH 12" x 16" x 1.5" LOAD PLATE)			36		38 OF 57
516	44201	36	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (13" x 19" x 3.398" WITH 14" x 20" x 1.5" LOAD PLATE)			36		38 OF 57
518	12301	11	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN			11		45 OF 57
518	21200	207	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	207				
518	40000	285	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	285				
518	40011	62	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	62				25 AND 29 OF 57
523	20000	1	EACH	DYNAMIC LOAD TESTING	1				
526	25001	640	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN				640	55 OF 57
526	90020	134	SY	TYPE B INSTALLATION				134	
601	21000	1,081	SY	CONCRETE SLOPE PROTECTION				1,081	
607	39900	406	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC			406		



DATE: 7/2017  
 STRUCTURE FILE NUMBER: 5707080

DESIGNED: GMW  
 CHECKED: CJW

DRAWN: GMW  
 REVISION: DFT

ESTIMATED QUANTITIES  
 BRIDGE NO. MOT-75-1078  
 OVER EDWIN C. MOSES BOULEVARD

MOT-75-(10.44)(10.78)  
 PID No. 91606