LOCATION MAP

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DESIGN DESIGNATION

7910
660
65 MPH
65 MPH
<i>NO</i>

DESIGN EXCEPTIONS

NONE

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

SCI-52-35.72

GREEN TOWNSHIP SCIOTO COUNTY

INDEX OF SHEETS:

TITLE SHEET	1				
GENERAL NOTES	2				
MAINTENANCE OF TRAFFIC					
ESTIMATED QUANTITIES					
SITE PLAN	5				
FRAMING PLAN AND TRANSVERSE SECTION	6				
BEAM DETAILS	7				

PROJECT DESCRIPTION

REPAIR OF COLLISION DAMAGES TO BRIDGE NO. SCI-52-3572 BY MEANS OF HEAT STRAIGHTENING AND ASSOCIATED REPAIR WORK.

EARTH DISTURBED AREAS

N/A ACRES PROJECT EARTH DISTURBED AREA: (MAINTENANCE PROJECT) ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A ACRES (MAINTENANCE PROJECT)

NOTICE OF INTENT EARTH DISTURBED AREA: N/A ACRES (MAINTENANCE PROJECT)

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.

2010 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.

DATE 12/17/12 DISTRICT DEPUTY DIRECTOR

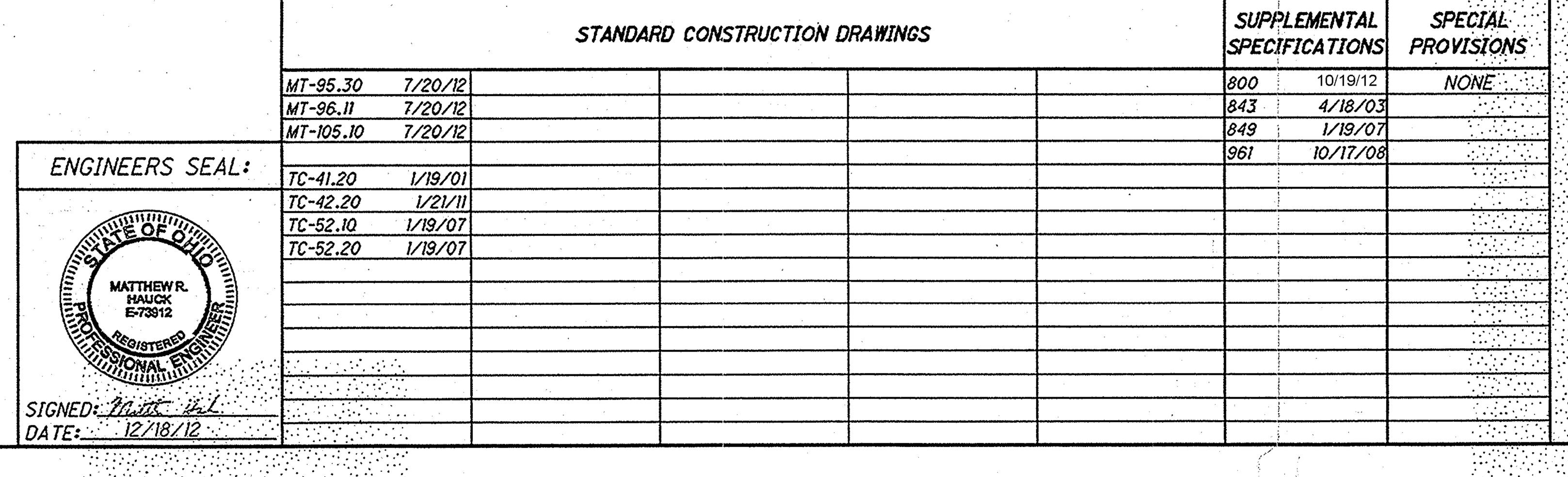
TRANSPORTATION

UNDERGROUND UTILITIES CONTACT BOTH SERVICES CALL TWO WORKING DAYS BEFORE YOU DIG 1-800-362-2764 (TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

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

> PLAN PREPARED BY: STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 9 ENGINEERING



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.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THIS PLAN PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY. THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02, AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR

THE HAUNCH AREAS OF THE DAMAGED BEAMS SHALL BE PATCHED WITH TROWELABLE MORTAR IF THE SIDE OF THE TOP FLANGE IS EXPOSED.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE SQ FT CONTRACT PRICE FOR ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO PERFORM THIS WORK.

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN

ALL REQUIREMENTS OF CMS 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD-FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING TO 513.06 OR SUPPLY THE ENGINEER WITH "AS BUILT" DRAWINGS MEETING 513.06 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE DELIVERED MATERIALS. SUPPLY A COPY OF THE DRAWINGS. STAMPED, SEALED AND DATED, ACCORDING TO S1002, TO THE STRUCTURAL, WELDING, AND METALS SECTION OF THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES. THE MEMBERS INCLUDED IN THIS ITEM ARE THE $3\times3\times\frac{5}{16}$ ANGLES FOR CROSS FRAMES, THE $\frac{5}{8}$ " imes 1'-0" imes 5'-0" PLATE AND THE 1" imes 1'-0" imes5'-0" PLATE FOR BEAM 1.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE POUND UNIT PRICE FOR ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS)

AN ESTIMATED QUANTITY IS PROVIDED IN THE GENERAL SUMMARY, FOR REMOVAL OF SECONDARY MEMBERS AS DETERMINED BY FIELD INSPECTION ACCORDING TO ITEM 849, DAMAGE ASSESSMENT OR AS DIRECTED BY THE ENGINEER. SUPPORT THE EXISTING MAIN MEMBERS ACCORIDING TO ITEM 849, STRAIGHTENING WORK PLAN. FLAME OR SAW CUT THE EXISTING MEMBERS TO WITHIN 1/8 INCH OF THE EXISTING MAIN MATERIAL USING A MECHANICAL GUIDE ACCORDING TO CMS 513.12. PROVIDE SHIELDING AS NECESSARY TO PREVENT DAMAGE TO MAIN OR SECONDARY MATERIALS THAT REMAIN. GRIND THE EXISTING MAIN OR SECONDARY MEMBERS SMOOTH IN PREPARATION FOR COMPLETE PENETRATION OR FILLET WELDING, PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL (TO ACCOMADATE THE PROPOSED REPLACEMENT MATERIALS). DETERMINE FINAL QUANTITIES BY FIELD MEASUREMENTS.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE EACH UNIT PRICE FOR ITEM 202 - PORTIONS OF STRUCTURE REMOVED. AS PER PLAN (SECONDARY MEMBERS), AND SHALL INCLUDE ALL LABOR. TOOLS. EQUIPMENT. MATERIALS. AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN, (THREE COAT)

1.0 DESCRIPTION:

THIS ITEM CONSISTS OF FIELD PAINTING STRUCTURAL STEEL PREVIOUSLY COATED WITH A NEWER EXISTING OZEU OR IZEU PAINT SYSTEM OR UNPAINTED WEATHERING STEEL TO CORRECT DAMAGE BY COLLISION OR CORROSION. THIS WORK CONSIST OF PERFORMING SURFACE PREPARATION AND APPLYING A THREE-COAT PAINT SYSTEM TO THE PREPARED STEEL AND FEATHERED REMOVAL AREAS OF EXISTING OZEU OR IZEU PAINT SYSTEMS OR UNPAINTED WEATHERING STEEL.

2.0 GENERAL:

CMS 514.05 THROUGH 514.10 AND 514.13.D APPLY UNLESS MODIFIED BY THESE NOTES.

3.0 WASHING EXISTING OZEU OR IZEU PAINTED SURFACES OR UNPAINTED WEATHERING STEEL: CLEAN SURFACES TO BE COATED WITH LOW PRESSURE WATER CLEANING TO REMOVE ALL DIRT, DEBRIS, ANIMAL EXCREMENT, SALT CONTAMINANTS AND OTHER ACCUMULATED FOREIGN MATERIAL IN ACCORDANCE WITH SSPC-SPI2 (LP WC), LOW PRESSURE WATER CLEANING. THE PRESSURE WASHER SHALL BE CAPABLE OF ACHIEVING AT LEAST 2000 POUNDS PER SOUARE INCH AT THE NOZZLE. WHEN USING THE POWER WASHING EOUIPMENT, THE NOZZLE SHALL BE MAINTAINED NO MORE THAN 10 INCHES FROM THE SURFACE. SUPPLY AND USE POTABLE WATER. PROVIDE TO THE ENGINEER A LETTER OF WRITTEN ACCEPTANCE FOR ANY BIODEGRADABLE DETERGENTS OR CLEANERS USED IN CONJUNCTION WITH THIS METHOD.

COLLECT AND CONTAIN WATER AND DEBRIS REMOVED DURING WASHING OPERATIONS ABOVE WATER FEATURES IN CONFORMANCE WITH CMS 514.08 AND CMS 514.13.D FOR ANY DEBRIS. CREATE SETTLEMENT COLLECTION BASINS AND STRAIN ALL WASH WATER ABOVE LAND FEATURES AS NECESSARY TO PRODUCE VISIBLY CLEAR WATER AND COMPLY WITH CMS 514.08 AND CBMS 514.13.D FOR ANY DEBRIS.

4.0 SURFACE PREPARATION:

AFTER THE PRESSURE WASHED SURFACE HAS DRIED, REMOVE EXISTING PAINT COATING TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER ACCORDING TO: SSPC-SP 11, POWER TOOL CLEANING TO BARE METAL, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL

ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN, (THREE COAT) (CONT.)

SURFACES SHOWN IN SSPC-VIS 3; SSPC SP6, COMMERCIAL BLAST CLEANING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 1: OR SSPC SP12 UHP WJ-4. ULTRAHIGH-PRESSURE WATER JETTING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 4. SUPPLY BLAST WATER CONTAINING A COMMERCIALLY AVAILABLE RUST INHIBITOR AT A DOSAGE THAT PREVENTS FLASH RUSTING FOR 12 HOURS AND DOCUMENTED AS ACCEPTABLE TO THE COATING'S MANUFACTURER. THE ENGINEER WILL USE THE SSPC-VIS 1, SSPC-VIS 3 OR SSPC-VIS 4 TO DETERMINE THE ACCEPTANCE OF THE SURFACE PREPARATION. FEATHER THE EXISTING PAINT TO EXPOSE A MINIMUM OF $\frac{1}{2}$ INCH OF EACH COAT. CONTAIN AND DISPOSE DISPOSE OF WASTE GENERATED BY THE CLEANING ACCORDING TO CMS 514.13.D.

ROUND ALL EXPOSED CORNERS OF MAIN MATERIAL TO BE PAINTED AS NECESSARY TO ACHIEVE A 1/16 INCH RADIUS OR EOUIVALENT FLAT SURFACE AT A 45 DEGREE ANGLE.

5.0 FIELD PAINTING:

APPLY THE PRIME, INTERMEDIATE AND FINISH COATS OF THE THREE-COAT PAINT SYSTEM SPECIFIED IN CMS 708.02. ACCORDING TO CMS 514.15, 514.16, 514.17, 514.19 AND 514.20 TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER. TINT THE FINISH COAT TO APPROXIMATELY THE SAME COLOR AS THE EXISTING FINISH COLOR, UNPAINTED WEATHERING STEEL OR AS DESIGNATED IN THE CONTRACT. MATCH THE COLOR TO THE ENGINEERS SATISFACTION. THE ENGINEER WILL DETERMINE THE PRIME AND INTERMEDIATE COAT THICKNESS USING A TYPE 2 MAGNETIC GAGE AT SPOT LOCATIONS. THE PRIME, INTERMEDIATE, AND FINISH COAT OF PAINT SHALL MEET THE MINIMUM DRY FILM THICKNESS REQUIREMENTS OF CMS 514.20.

APPLY PAINT AS FOLLOWS:

A. APPLY THE PRIME COAT ONLY TO THE PREPARED SURFACE OF THE BARE STEEL AND THE EXISTING PRIME COAT EXPOSED BY FEATHERING. DO NOT APPLY THE PRIME COAT TO THE ADJACENT INTERMEDIATE COAT.

B. APPLY CAULK AFTER PRIMING

C. APPLY THE INTERMEDIATE COAT TO THE NEW PRIME COAT AND TO THE EXISTING INTERMEDIATE COATS THAT ARE EXPOSED BY FEATHERING.

D. APPLY THE FINISH COAT TO THE NEW INTERMEDIATE COAT AND TO THE EXISTING FINISH COATS THAT ARE EXPOSED BY FEATHERING.

AT THE PERIMETER OF THE REPAIR AREA. APPLY THE PRIME. INTERMEDIATE AND FINISH COATS WITH A BRUSH. IN LIEU OF BRUSHING THE CONTRACTOR MAY DOUBLE MASK AREAS NOT TO BE COATED AND SPRAY TO FEATHERED REMOVAL LINES.

BLEND REPAIR AREAS WITH THE ADJACENT COATING TO PROVIDE A FINISHED SURFACE IN THE PATCHED AREAS THAT IS SMOOTH AND HAS AN EVEN PROFILE WITH THE ADJACENT SURFACE.

6.0 MEASUREMENT:

THE DEPARTMENT WILL MEASURE FIELD PAINTING OF DAMAGED STRUCTURAL STEEL. AS PER PLAN BY THE NUMBER OF SOUARE FEET OF STRUCTURAL STEEL PAINTED.

THE DEPARTMENT WILL DETERMINE THE SURFACE AREA BY TAKING EXACT FIELD MEASUREMENTS OF ALL PAINTED SURFACES AND CALCULATIONS.

ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN, (THREE COAT) (CONT.)

7.0 BASIS OF PAYMENT: THE DEPARTMENT WILL PAY FOR ACCEPTED OUANTITIES AT THE SQ FT CONTRACT PRICES AS FOLLOWS:

THE DEPARTMENT MAY CONSIDER PAINT AS ELIGIBLE FOR PAYMENT FOR MATERIAL ON-HAND AS SPECIFIED IN 109.10. HOWEVER. ONLY PAINT THAT THE CONTRACTOR CAN PROVE TO THE ENGINEER WILL BE USED DURING THE CONSTRUCTION SEASON IS ELIGIBLE FOR PAYMENT. THE CONTRACTOR SHALL PROVIDE THE ENGINEER CALCULATIONS INDICATING THE TOTAL SOUARE FEET OF STEEL TO BE PAINTED DURING THE CONSTRUCTION SEASON. THE CONTRACTOR SHALL ALSO PROVIDE CALCULATIONS SHOWING THE TOTAL NUMBER OF GALLONS REOUIRED.

IF THE CONTRACTOR CAUSES DAMAGE OR INJURY TO PUBLIC OR PRIVATE PROPERTY. THE DEPARTMENT WILL NOT PAY FOR RESTORING THE PROPERTY TO ITS ORIGINAL CONDITION.

THE DEPARTMENT WILL NOT PAY FOR REPAIRING ADJACENT COATINGS DAMAGED DURING THE WASHING, POWER TOOL CLEANING OR BLAST CLEANING OPERATION.

THE DEPARTMENT WILL NOT PAY FOR REMOVING AND REPLACING AN AREA OF COATING BECAUSE A SPOT OR MAXIMUM AVERAGE THICKNESS EXCEEDS THE MAXIMUM SPOT THICKNESS.

THE DEPARTMENT WILL NOT PAY FOR ADDITIONAL TESTING REQUIRED BY ANY HAULER, TREATMENT FACILITY, DISPOSAL FACILITY OR LANDFILL.

THE DEPARTMENT WILL NOT PAY FOR ACCESSING, INSPECTING, AND REPAIRING AREAS THAT ARE NOT FOUND TO BE IN CONFORMANCE WITH THE SPECFICATIONS AND PERTINENT CONTRACT DOCUMENTS.

ALL OTHER REQUIREMENTS OF THIS FIELD PAINTING SPECIFICATION ARE CONSIDERED INCIDENTAL TO THE WORK.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE SQ FT UNIT PRICE FOR ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COATS) AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 513 - STRUCTURAL STEEL, MISC.: BEAM REPAIR

THIS ITEM CONSIST OF REMOVING A 5' (FOOT) LONG BY 1'-5/6" HIGH SECTION OF BEAM 1 AFTER ITEM 849, STRAIGHTENING DAMAGED MEMBERS HAS BEEN PREFORMED ON THE BEAMS. LOCATE THE SECTION OF THE BEAM AS DETIALED ON SHEET 7 WHERE THE FLANGE HAS BEEN HIT AND WHERE SECTION LOSS IN THE WEB HAS OCCURED. REMOVE THE SECTION OF BEAM AS DESCRIBED IN ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

ONCE THE DAMAGED SECTION OF BEAM HAS BEEN REMOVED. PREFORM ITEM 513, STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN AS DETAILED ON SHEET 8.

ALSO INDUCED UNDER THIS PAY ITEM IS THE PAINT REMOVAL, INSPECTION AND WELDING OF THE MOMENT PLATE OF BEAM 4 AS INDICATED ON SHEET 7.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE LUMP UNIT PRICE FOR ITEM 513 - STRUCTURAL STEEL, MISC.: BEAM REPAIR AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS. AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK UNLESS SEPARATELY ITEMIZED IN THE PLANS.

ITEM 614. MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT ON U.S.R. 52. NO WORK SHALL BE BE PERFORMED OVER AN OPEN LANE OF TRAFFIC.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY THE USE OF THE EXISTING PAVEMENT AND TEMPORARY TRAFFIC SIGNALS ON CR 7. ODOT HAS ALREADY PLACED TEMPORARY TRAFFIC CONTROL ON CR 7, INCLUDING BARRELS, PAVEMENT MARKINGS AND TEMPORARY SIGNALS.

THE CONTRACTOR SHALL REMOVE THE BARRELS, SIGNS AND TEMPORARY SIGNALS FOR STORAGE IN A MANNER AS NOT TO DAMAGE THE EQUIPMENT. ONCE REMOVED IT SHALL BE SET ASIDE TO BE PICKED UP BY ODOT. ONE (1) DAY PRIOR TO THE REMOVAL OF THE EQUIPMENT, CONTACT THE SCIOTO COUNTY MAINTENANCE GARAGE AT (740)259-2144 AND THEY WILL PICK UP THE EQUIPMENT AND REMOVE IT FROM THE PROJECT SITE.

THE CONTRACTOR SHALL RECREATE THE MAINTENANCE OF TRAFFIC CONFIGURATION THAT WAS PUT IN PLACE BY ODOT. UTILIZING THE TEMPORARY PAVEMENT MARKINGS. PLACE TEMPORARY SIGNALS AND BARRELS AS THEY WERE BY ODOT. IN ADDITION, THE CONTRACTOR SHALL PLACE ALL SIGNING AS REQUIRED IN STD. DWG. MT-96.11.

BEFORE THE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAME(S) AND TELEPHONE NUMBER(S) OF A PERSON OR PERSONS WHO CAN BE CONTACTED TWENTY-FOUR (24) HOURS PER DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION AND ALL INTERESTED POLICE AGENCIES. THIS PERSON OR PERSONS SHALL BE RESPONSIBLE FOR PLACING OR REPLACING NECESSARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR WILL ADVISE THE DISTRICT PUBLIC INFORMATION OFFICER AT (740) 774-8834, OR FAX (740) 773-2710 SEVEN (7) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE PROJECT ENGINEER WILL PROVIDE ASSISTANCE/ CLARIFICATION FOR ANY QUESTIONS.

THE CONTRACTOR SHALL ARRANGE FOR ALL MAINTENANCE OF TRAFFIC OPERATIONS SUCH THAT THERE WILL BE NO OBSTRUCTIONS TO THE CONTINUOUS FLOW OF TRAFFIC ON U.S.R. 52. ALL INTERSECTIONS AND DRIVEWAYS SHALL BE OPEN TO TRAFFIC AT ALL TIMES UNLESS OTHERWISE SHOWN IN THE PLAN.

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.

SUGGESTED SEQUENCE OF WORK:

STAGE 1

MAINTAIN TRAFFIC ON U.S.R. 52 IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING MT-95.30. ALL LANES SHALL BE REOPENED TO TRAFFIC DURING PERIODS WHEN THE CONTRACTOR IS NOT WORKING.

MAINTAIN TRAFFIC ON CR 7 AS DESCRIBED WITHIN THE PLANS. CLOSURES ON THIS ROUTE WILL BE ALLOWED BETWEEN THE HOURS OF 9 A.M. AND 2 P.M. DAILY FOR A MAXIMUM OF 15 WORKING DAYS.

COMPLETE ALL ITEMS OF WORK ASSOCIATED WITH BRIDGE NO. SCI-52-3572 WITH THE EXCEPTION OF ITEM 514, FIELD PAINTING OF DAMAGED STRUCTURAL STEEL. AS PER PLAN (THREE COAT).

UPON COMPLETION OF THE WORK OUTLINED ABOVE, REMOVE ALL ITEMS OF TEMPORARY TRAFFIC CONTROL ASSOCIATED WITH CR 7.

STAGE I SHALL HAVE AN INTERIM COMPLETION DATE OF 2/22/13 AND DISINCENTIVES SHALL BE \$1,000 PER DAY FOR EACH CALENDAR DAY STAGE I REMAINS IN PLACE BEYOND THE INTERIM COMPLETION DATE AS PER CMS 108.07.

STAGE 2

MAINTAIN TRAFFIC ON U.S.R. 52 IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING MT-95.30. ALL LANES SHALL BE REOPENED TO TRAFFIC DURING PERIODS WHEN THE CONTRACTOR IS NOT WORKING.

COMPLETE ITEM 514. FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT).

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 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 REQUIRED TO PREFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

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

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

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

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

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

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

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS. TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP). IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/ DECELERATION LANE FOR THE VEHICLE. THE LEO WILL NOT BE REQUIRED.

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

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

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT. IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE

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

AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE. THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RE-TURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

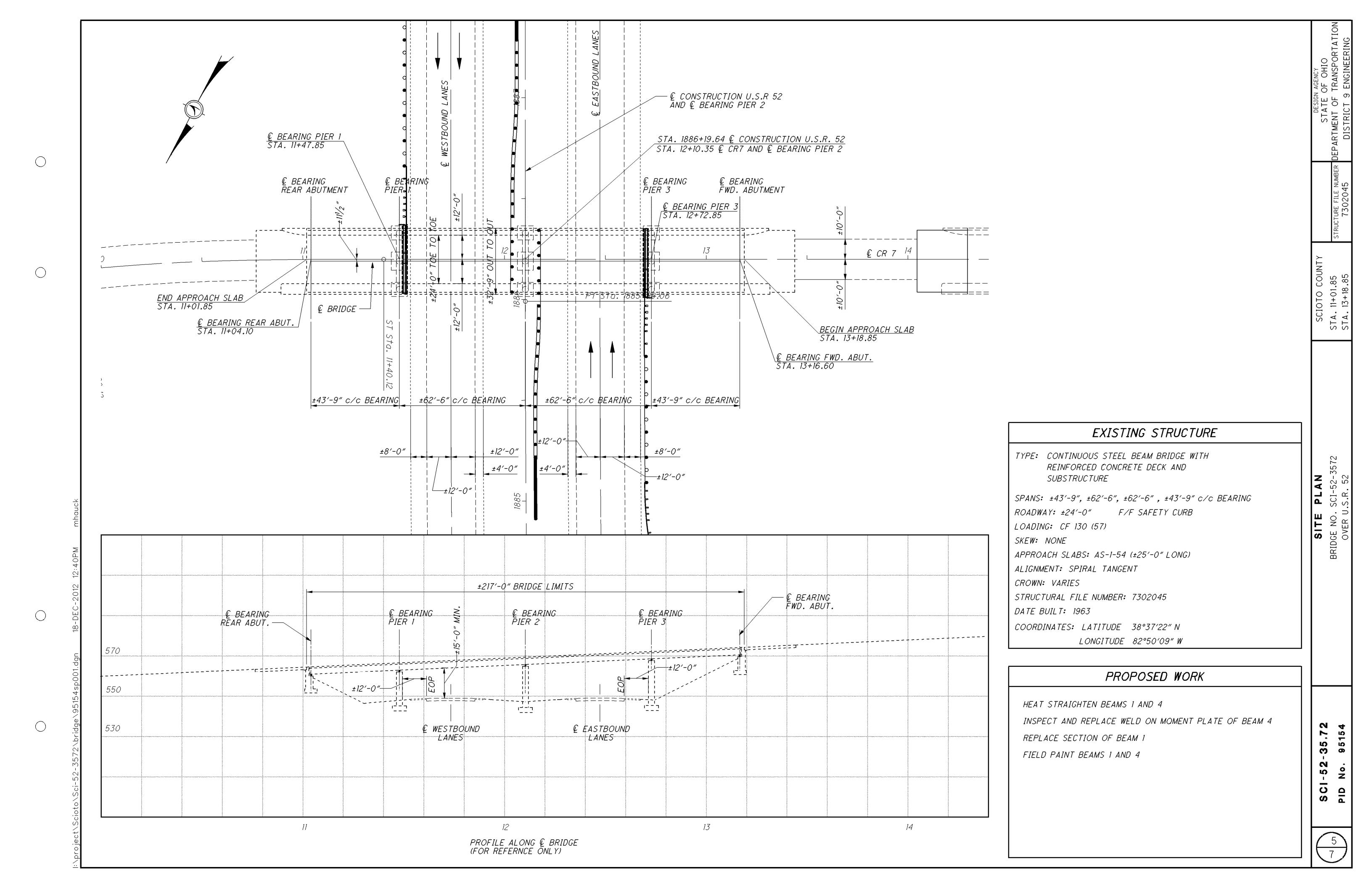
LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINT-ENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

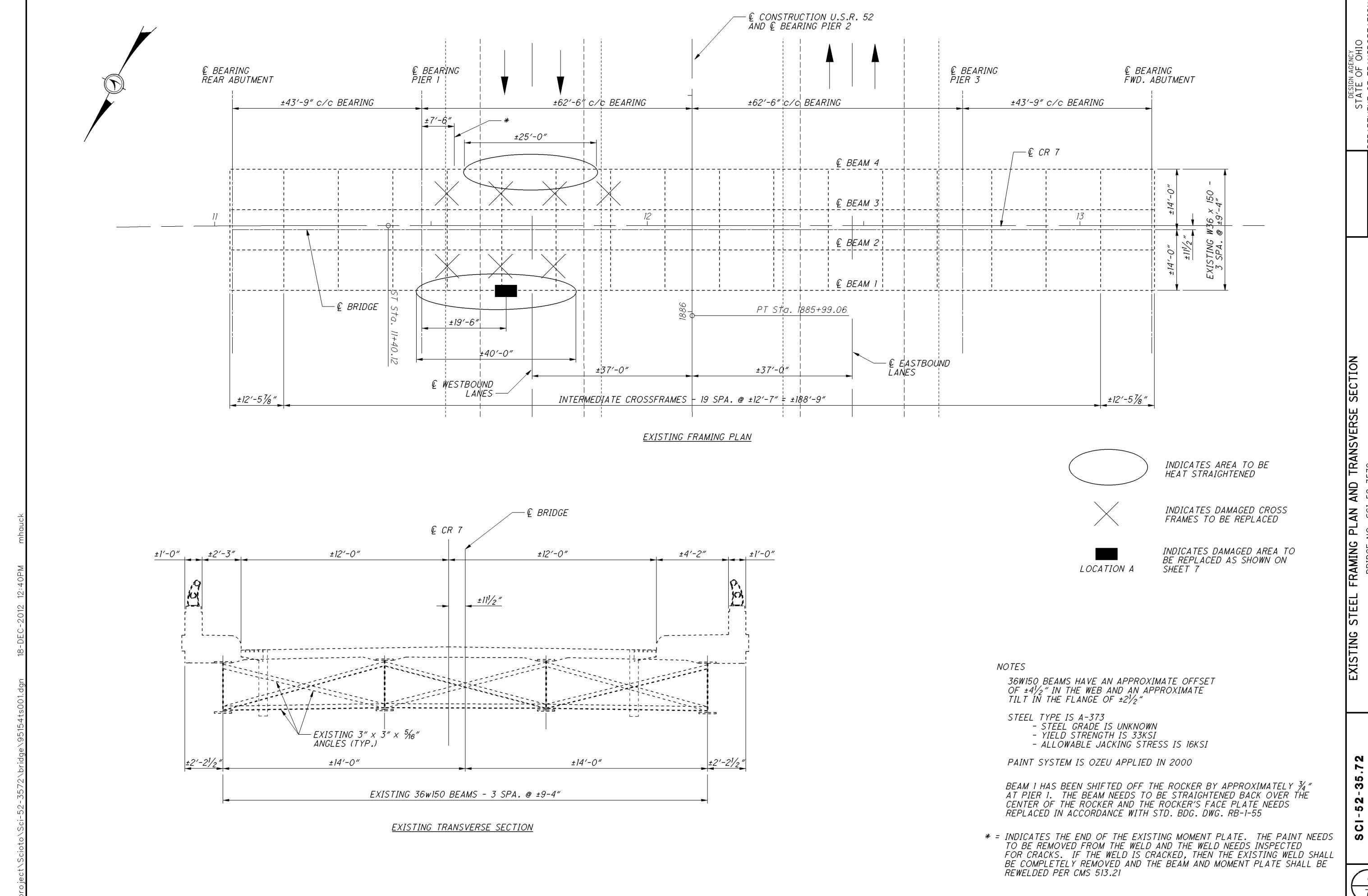
ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 40 HOURS

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

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

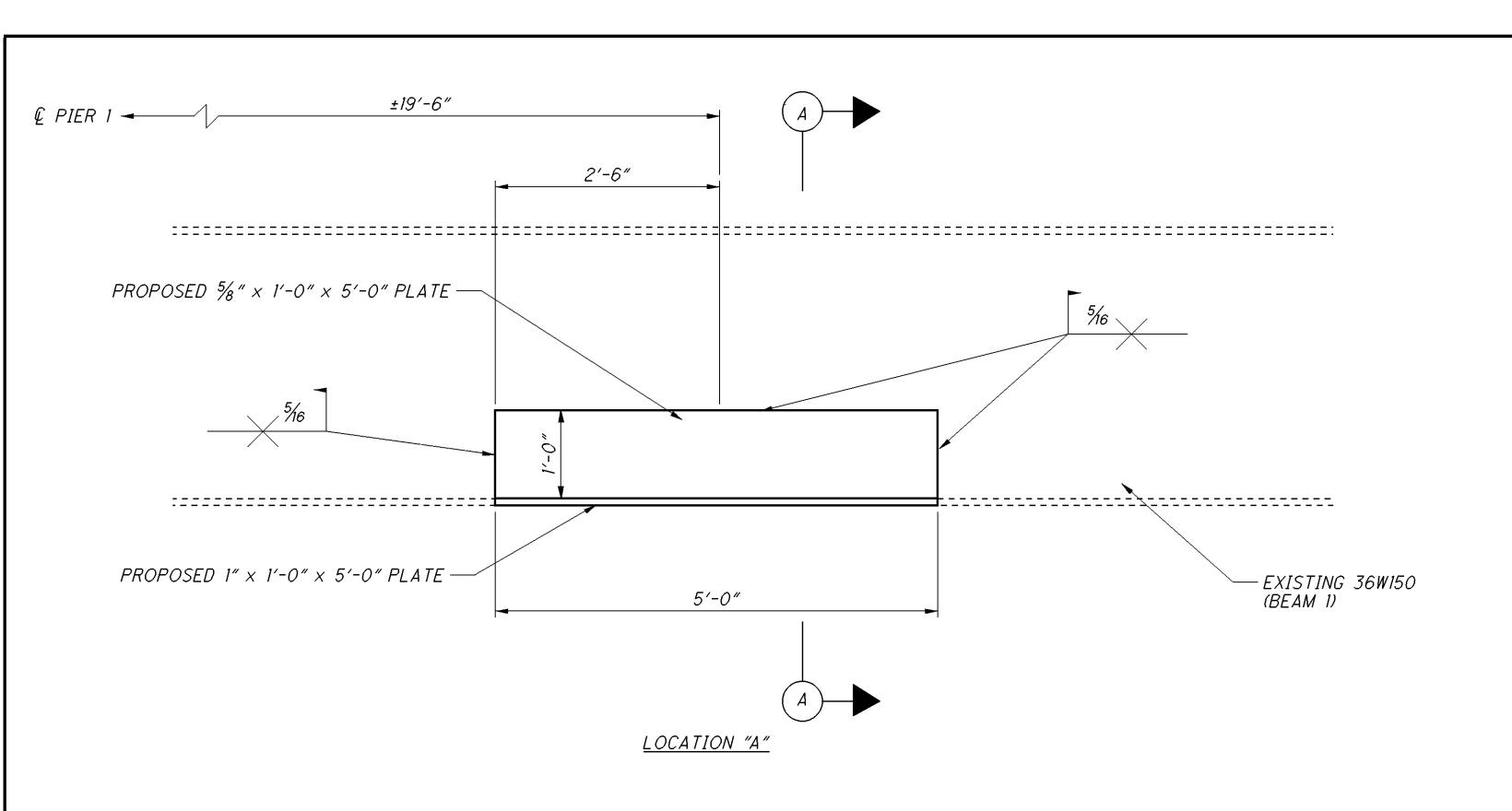
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					10	000	115.01	10	5400		
					12 40	202 512	11501 10600	12	EACH FT	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS) CONCRETE REPAIR BY EPOXY INJECTION	
 ±29' PER LOCATIO	ION x 7 LOCA	 A <i>TIONS x 6.10 LB</i>			1,719	513	10201	1,719	POUND	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN	
					100%	513	95020	LUMP		STRUCTURAL STEEL, MISC.: BEAM REPAIR	
36WF150: ±8.72' F	PERIMETER X	±65' LENGTH = 5	566.8 SQ FT + × 1' PERIMETER = 196 SQ FT		763	514	20001	763	SQ FT	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT)	
4NGLES: ±28' PER	R LOCATION	X / LOCATIONS >	x I PERIMETER = 196 SQ FT		, 00			, , , ,	Ju , ,	TILLE TAINTING OF BAMACLE STREET, AS TENTEAN (TIMEL GOAT)	
± 20′ x .5′ x 2 S	_ SIDES OF BEA	 AM = 20 SO FT			20	843	50001	20	SQ FT	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN	
					100%	849	10000	LUMP		DAMAGE ASSESSMENT	
					100%	849	10500	LUMP		SURFACE PREPARATION	
± 0.1 HR/FT x 65	5′ = 6.5 HOU	<i>R</i>			7	849	10600	7	HOUR	REPAIRING DAMAGED MEMBERS BY GRINDING	
					100%	849	10700	LUMP		STRAIGHTENING DAMAGED MEMBERS	
										MATHEMANIOS OS TOASSIO	
										MAINTENANCE OF TRAFFIC	
		40			40	614	11110	40	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
	+ +										
i					100%	614	11000	LUMP		MAINTAINING TRAFFIC	
		l		· · · · · · · · · · · · · · · · · · ·	,,,,,,	. =		. 1 [//VII		1 N/A DV D A DV DV C	
					100%	624	10000	LUMP		MOBILIZATION	





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WELDING REQUIREMENTS

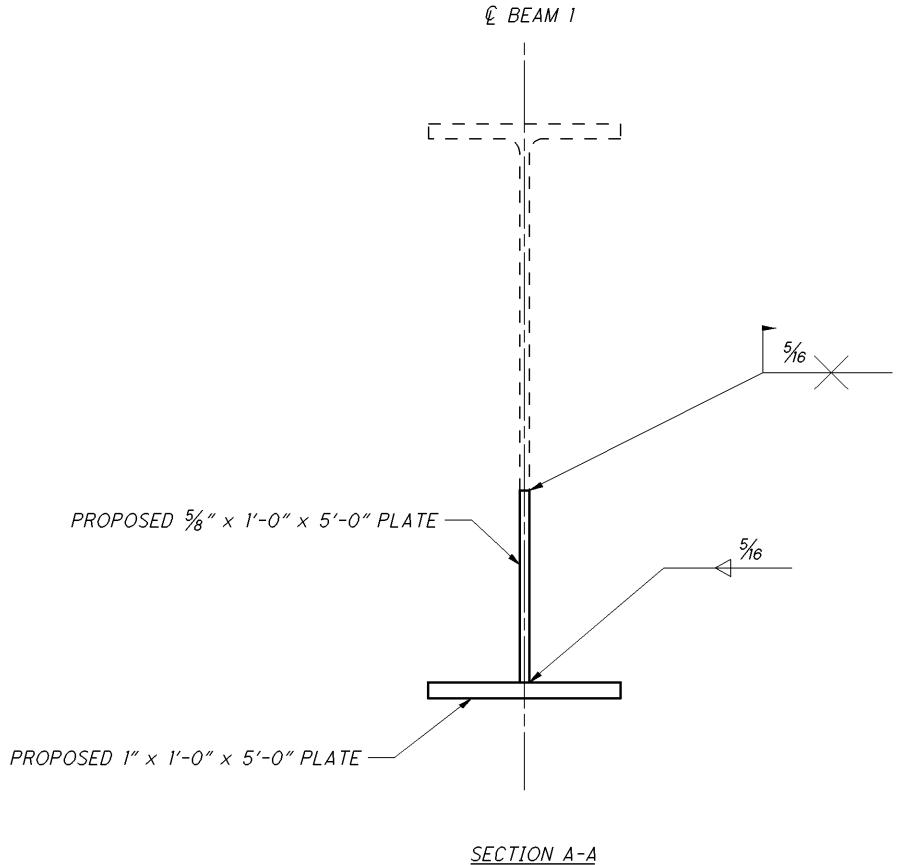
FULL PENETRATION WELDS

PREPARE THE DAMAGED MATERIAL FOR WELDING, PROVIDE RUNOFF TABS FOR ALL COMPLETE PENETRATION WELDS. PERFORMING COMPLETE PENETRATION WELDS ACCORDING TO CMS 513 USING APPROVED
ELECTRODES, PROCEDURES AND WELDERS. REMOVE RUNOFF TABS AND
GRIND THE COMPLETED EDGES SMOOTH. GRIND THE COMPLETED WELDS
SMOOTH AND FLUSH WITH THE ADJACENT SURFACES TO PROVIDE A SURFACE
FINISH ACCORDING TO ANSI B46.1 OF 250 MIL. DO NOT OVER GRIND
AS TO REDUCE MATERIAL THICKNESS OR WIDTH OF THE NEW OR
EXISTING MATERIALS. PREPARE ALL REENTRANT CORNERS WITH A ONE
INCH RADIUS. REMOVE WELDING, START STOP DISCONTINUITIES. RADIOGRAPHIC TEST THE FINISHED WELDS ACCORDING TO CMS 513.25A AND SUBMIT COPIES OF THE REPORT TO THE ENGINEER. THE ENGINEER MAY OBTAIN TECHNICAL ASSISTANCE FROM THE OFFICE OF MATERIALS MANAGEMENT.

FILLET WELDS

PREPARE THE DAMAGED MATERIAL FOR WELDING, PERFORMING 5/6 INCH FILLET WELDS ACCORDING TO CMS 513 USING APPROVED ELECTRODES, PROCEDURES AND WELDERS. MAGNETIC PARTICLE INSPECT ALL FILLET WELDS ACCORDING TO CMS 513.25B. THE ENGINEER MAY OBTAIN TECHNICAL ASSISTANCE FROM THE OFFICE OF MATERIALS MANAGEMENT.

ALL TOOLS, LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLÉTE THE ABOVE WORK SHALL BE INCLUDED FOR PAYMENT WITH ITEM 513, STRUCTURAL STEEL, MISC .: BEAM REPAIR UNLESS SEPARATELY ITEMIZEĎ IN THE PLANS.



35.7 51 2 10 $\overline{\mathbf{c}}$ SC PID

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