ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING,

PRIOR TO THE START OF ROADWAY OPERATIONS, THE CONTRACTOR SHALL REFERENCE THE LENGTH OF THE PROJECT ON BOTH SIDES OF THE ROADWAY, IN A MANNER SATISFACTORY TO THE ENGINEER. THE PAVEMENT SHALL BE REFERENCED IN 1000' INCREMENTS, OR IN INCREMENTS ACCEPTABLE TO THE ENGINEER, IN A SEMI-PERMANENT CONDITION

PERMANENT PAVEMENT MARKINGS

THE CONTRACTOR SHALL REFERENCE ALL PAVEMENT MARKINGS INCLUDING AUXILIARY PAVEMENT MARKINGS BEFORE THE START OF CONSTRUCTION, M.O.T. OPERATIONS AND/OR RESURFACING OPERATION. THIS WILL BE NECESSARY ASSURE TO CORRECT PLACEMENT OF MARKINGS IN ORIGINAL LOCATIONS.

PAYMENT FOR THIS OPERATION SHALL BE INCLUDED WITH EACH RESPECTIVE PAVEMENT MARKING ITEM.

WATERWAY IMPACTS

THE CONTRACTOR SHALL NOT BE PERMITTED TO PLACE ANY TYPE OF CONSTRUCTION EQUIPMENT IN THE WATERWAY TO PERFORM ANY OF THE PROPOSED WORK. THE PROJECT THEREFORE HAS NO WATERWAY PERMIT.

NON-USE OF ASBESTOS-CONTAINING MATERIALS

THE CONTRACTOR SHALL AT NO TIME INCORPORATE ANY MATERIALS WHICH ARE COMPOSED OF OR CONTAIN ANY AMOUNT OF ASBESTOS. THE SUBSTITUTION OF MATERIALS WHICH CONTAIN ANY AMOUNTS OF ASBESTOS WILL IN NO CIRCUMSTANCES BE ACCEPTABLE. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF CERTIFICATION ASSERTING THAT NO ASBESTOS CONTAINING MATERIALS WERE USED IN ANY PORTION OF THE CONSTRUCTION.

CONSTRUCTION NOISE

ACTIVITIES AND RESIDENTIAL LAND USE WITHIN 200 FEET OF THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES IN VIOLATION OF LOCAL NOISE ORDINANCES. IN ADDITION, DO NOT OPERATE BETWEEN 7:30 PM AND 7:00 AM ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

MAINTAINING ITS DURING CONSTRUCTION

THE CONTRACTOR SHALL MAINTAIN ALL PREEXISTING OR NEWLY INSTALLED PERMANENT ITS/TRAFFIC DEVICES AND INFRASTRUCTURE DURING CONSTRUCTION ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SEEDING AND MULCHING 312 SY 659, REPAIR SEEDING AND MULCHING 16 SY

659, COMMERCIAL FERTILIZER 0.4 TON 659, LIME 0.6 ACRES 659. WATER 1.7 MGAL

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ASBESTOS ABATEMENT

AN ASBESTOS SURVEY FOR SFN's 3104923 SCHEDULED FOR RENOVATION WORK WAS CONDUCTED ON 07/29/2025 BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. THE ASBESTOS SURVEY DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS ON THIS STRUCTURE.

AN ASBESTOS SURVEY FOR SFN's 3104990, 3105008, 3105024, & 3105083 SCHEDULED FOR RENOVATION WORK WAS CONDUCTED ON 08/13/2025 BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. THE ASBESTOS SURVEY DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS ON ANY OF THESE STRUCTURES.

ELECTRONIC SUBMISSION:

THE CONTRACTOR SHALL SUBMIT ELECTRONICALLY TO OEPA A COMPLETED NOTIFICATION OF DEMOLITION & RENOVATION FORM (NDRF) AND APPLICABLE FEES ALONG WITH THE ASBESTOS SURVEY REPORT. THE COMPLETED NDRF MUST BE SUBMITTED TO OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION AND RENOVATION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR RETAINING AN ELECTRONIC COPY OF THE NDRF (IN PDF FORM) FOR SUBMISSION TO THE DISTRICT ENVIRONMENTAL STAFF AND ONE HARD COPY TO THE PROJECT

(GO TO THE OEPA E-BUSINESS CENTER AND SUBMIT THE DNRF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT)

HARD COPY SUBMISSION:

THE CONTRACTOR MAY ELECT TO SUBMIT A HARD COPY OF THE COMPLETED NDRF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT TO THE FOLLOWING:

ASBESTOS PROGRAM OHIO EPA. DAPC P.O. BOX 1049 COLUMBUS, OHIO 43216-1049 ASBESTOS PROGRAM OHIO EPA, DAPC 50 W TOWN ST, SUITE 700 COLUMBUS, OHIO 43215

IF THE CONTRACTOR ELECTS TO SUBMIT A HARD COPY TO OEPA THEY ARE RESPONSIBLE FOR RETAINING A HARD COPY OF THE NDRF FOR SUBMISSION TO THE DISTRICT ENVIRONMENTAL STAFF AND A HARD COPY TO THE PROJECT ENGINEER.

BASIS OF PAYMENT

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

690E71000 ASBESTOS ABATEMENT: WORK INVOLVING ASBESTOS CONTAINING MATERIALS - LUMP SUM

COORDINATION BETWEEN CONTRACTORS

THE CONTRACTOR OF HAM-SR126-VAR (PID 112991) WILL BE REQUIRED TO COORDINATE WORK WITH PROJECT HAM-126-6.86 (PID 110008) AND HAM-126-15.68 (PID 120995).

THE WORK ON PID 110008 INVOLVES RESURFACING SR126 WEST OF INTERSTATE 75. THIS PROJECT IS ANTICIPATED TO TAKE PLACE IN CALENDAR YEAR 2026.

THE WORK ON PID 120995 INVOLVES RESURFACING SR126 FROM SLM 15.652 TO INTERSTATE 71 ALONG WITH MINOR STRUCTURE WORK. THIS PROJECT IS ANTICIPATED TO TAKE PLACE IN CALENDAR YEAR 2026.

WORK AND MOT ON PID 120995 GOVERNS AND CONTROLS.

WORK ON HAM-126-1818 (SFN 3105083 – PLAINFIELD ROAD OVER SR 126) THAT IMPACTS TRAFFIC AND/OR THE SHOULDERS ON SR126 OR THE WORK ON PID 120995 IS NOT PERMITTED TO START UNTIL 10/01/2026 UNLESS PERMISSION IS GRANTED FROM THE PROJECT ENGINEER. THE INTENT IS TO LIMIT THE WORK CONFLICTS IN THE SAME AREAS ON PID 112991 AND PID

PLEASE BE REMINDED OF THE REQUIREMENTS OF THE CONTRACT, INCLUDING, BUT LIMITED TOO C&MS 105.08.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL VERTICAL POSITIONING ORTHOMETRIC HEIGHT DATUM: NAVD 88 GEOID: 12B

MOUNT POINT 2011 HORIZONTAL POSITIONING REFERENCE FRAME: NAV 83 ELLIPSOID: GRS80

MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO SOUTH ZONE *SPC 3402* COMBINED SCALE FACTOR: 1.00000 ORIGIN OF COORDINATE

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY

MIGRATORY BIRD PROTECTION: SWALLOWS

ECOLOGICAL STUDIES IDENTIFIED SWALLOW NESTS ON THE HAM SR-126 14.06 (SFN: 3104923). IF CONSTRUCTION ACTIVITIES WILL OCCUR BETWEEN MAY 1 AND AUGUST 31 ON THIS STRUCTURE, INSPECT THE STRUCTURE FOR EVIDENCE OF AN ACTIVE BIRD NEST CONTAINING AN EGG OR CHICK PRIOR TO STARTING WORK. PROVIDE WRITTEN CONFIRMATION OF THE INSPECTION, INCLUDING A STATEMENT WHETHER AN ACTIVE NEST WAS FOUND, TO THE ENGINEER. IF NO NESTS ARE ENCOUNTERED DURING THE INSPECTION, OR IF ONLY INACTIVE NESTS THAT DO NOT CONTAIN AN EGG OR CHICK ARE ENCOUNTERED, PROCEED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR MAY REMOVE AND DESTROY INACTIVE NESTS. THE CONTRACTOR MAY INSTALL EXCLUSION MEASURES BETWEEN AUGUST 31 AND MAY 1 TO PREVENT MIGRATORY BIRDS FROM NESTING ON THE STRUCTURE. PROJECTS PERFORMING CONSTRUCTION ACTIVITIES BETWEEN THE DATES OF SEPTEMBER 1 AND APRIL 30 DO NOT REQUIRE AN INSPECTION FOR MIGRATORY BIRDS OR AVOIDANCE MEASURES. IF AN ACTIVE NEST CONTAINING AN EGG OR CHICK IS ENCOUNTERED, AVOID IMPACTS TO THE NEST UNTIL ALL DEVELOPING BIRDS ARE ABLE TO INDEPENDENTLY FLY FROM THE NEST. IF AN ACTIVE NEST CONTAINING AN EGG OR CHICK CANNOT BE AVOIDED, CONTACT THE ENGINEER AT LEAST 4 WEEKS PRIOR DESTROYING AN ACTIVE NEST SO THE DISTRICT ENVIRONMENTAL COORDINATOR (DEC) CAN OBTAIN A DEPREDATION PERMIT FROM THE U.S. FISH AND WILDLIFE SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND COMPLETING ALL TASKS RELATED TO OBTAINING THE DEPREDATION PERMIT EXCEPT FOR DIRECT COORDINATION WITH THE MIGRATORY BIRD REGIONAL PERMIT OFFICE. DO NOT PROCEED WITH ACTIVITIES THAT WILL IMPACT AN ACTIVE NEST UNTIL THE DEC CONFIRMS THE DEPREDATION PERMIT IS RECEIVED.

DEMOLITION DEBRIS

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DEMOLITION DEBRIS FROM ENTERING THE STREAM OR FALLING ONTO TRAFFIC LANES. ANY MATERIAL THAT DOES FALL INTO THE STREAM OR ONTO TRAFFIC LANES SHALL BE IMMEDIATELY

REMOVED AT THE CONTRACTOR'S EXPENSE. DAMAGE TO VEHICLES AS A RESULT OF FALLING DEMOLITION DEBRIS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. WHILE PAINTING OR SEALING ANY PORTION OF THE BRIDGE STRUCTURES, AN APPROPRIATE APRON WILL BE UTILIZED TO PREVENT DEBRIS, PAINT OVER SPRAY, AND SEALANTS FROM ENTERING INTO THE STREAMS OR AFFECTING VEHICULAR/PEDESTRIAN TRAFFIC AND/OR PROTECTED AREAS.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A SOFTSTOP TYPE OF THE MASH 2016 TYPE E TANGENETIAL END TREATMENTS FOR TYPE MGS GUARDRAIL AS LISTED UNDER "PRODUCTS ACCEPTED FOR NEW INSTALLATIONS" ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON ROADWAY ENGINEERING'S WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH SOLID FLUORESCENT YELLOW REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

WHEN THE FACE OF THE ADJACENT (ATTACHED) GUARDRAIL IS LESS THAN 4' OFFSET FROM THE PROPOSED EDGE LINE, AND PERMITTING SITE CONDITIONS EXIST: THE PROPOSED TYPE E ANCHOR ASSEMBLY SHALL BE INSTALLED AT A CONSISTENT FLARE RATE THROUGH THE FULL LENGTH OF THE SYSTEM. THE FLARE RATE SHALL BE A MAXIMUM OF 25:1 (RESULTING IN A 2' OFFSET). THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SHOP DRAWINGS, PRODUCT INSTALLATION MANUAL/GUIDANCE, AND AS DIRECTED BY THE ENGINEER.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016), SOFTSTOP EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

CLEARING AND GRUBBING, AS PER PLAN

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

REMOVE ANY TREES, BRUSH, OR STUMPS NOT SPECIFICALLY MARKED FOR REMOVAL IF LOCATED UNDER OR WITHIN TWENTY FEET OF THE BRIDGE STRUCTURES. THE REMOVAL OF DEBRIS FROM AROUND THE PIERS AND ABUTMENTS AS DIRECTED BY THE ENGINEER AS WELL AS REMOVAL OF VEGETATION ON STRUCTURES SHALL ALSO BE INCLUDED WITH THIS ITEM FOR PAYMENT. REMOVE ALL VINES GROWING ON THE STRUCTURE(S).

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



CAH JDO 07-02-25

112991

03 57

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR

ALTAFIBER

221 E. 4TH STREET, BLDG. 121-900 CINCINNATI, OH 45201

CHARTER COMMUNICATIONS 10920 KENWOOD ROAD BLUE ASH, OH 45242

CITY OF BLUE ASH 4343 COOPER ROAD BLUE ASH, OHIO WILL DAVIS (513) 745-8536

CITY OF CINCINNATI TRAFFIC 801 PLUM STREET, ROOM 320 CINCINNATI, OH 45202 ANDREW CARTER 513-378-6190

CITY OF CINCINNATI STORM SEWER

SmuPlanReview@Cincinnati-Oh.gov

4747 SPRING GROVE AVENUE CINCINNATI, OH 45232

CITY OF CINCINNATI WATER 4747 SPRING GROVE AVENUE CINCINNATI, OH 45232 DAN LOUIS 513-352-3723

CITY OF READING 1000 MARKET STREET READING, OH 45215 DARRELL COURTNEY

513-733-5180

6182 JOHNSON ROAD FLUSHING, MI 48433 PAUL BECKER 815-557-8416 pbecker@cogentco.com

2010 DANA AVE CINCINNATI, OH 45207 SHANE ERHART 513-508-9609

Shane.Erhart@Duke-Energy.com

126-VAR

HAM-SR

DUKE ENERGY GAS/SOUTHERN CROSS 139 EAST 4TH STREET, ROOM 460A

LUMEN 20 N MECHANIC STREET LEBANON, OH 45036 relocations@lumen.com

8800 GOVERNOR HILL DRIVE CINCINNATI, OH 45249 STEPHEN HOWELL 513-839-3486 stephen.howell@verizon.com

ODOT ITS LAB 1606 WEST BROAD STREET COLUMBUS, OH 43223 614-387-4113 CEN.ITS.LAB@dot.ohio.gov

ODOT D8 TRAFFIC 505 S SR 741 LEBANON, OH 45036 JIM JUDD 513-933-6692 jim.judd@dot.ohio.gov

SOUTHWESTERN OHIO WATER 600 SHEPHERD AVE., SUITE 1 CINCINNATI, OH 45215 MIKE FAVIN 513-489-4844 Mike.Flavin@fuse.net

UNIVERSITY OF CINCINNATI 3000 GLENDORA AVENUE CINCINNATI, OH 45221 MIKE HOFMANN 513-556-5151 michael.hofmann@uc.edu

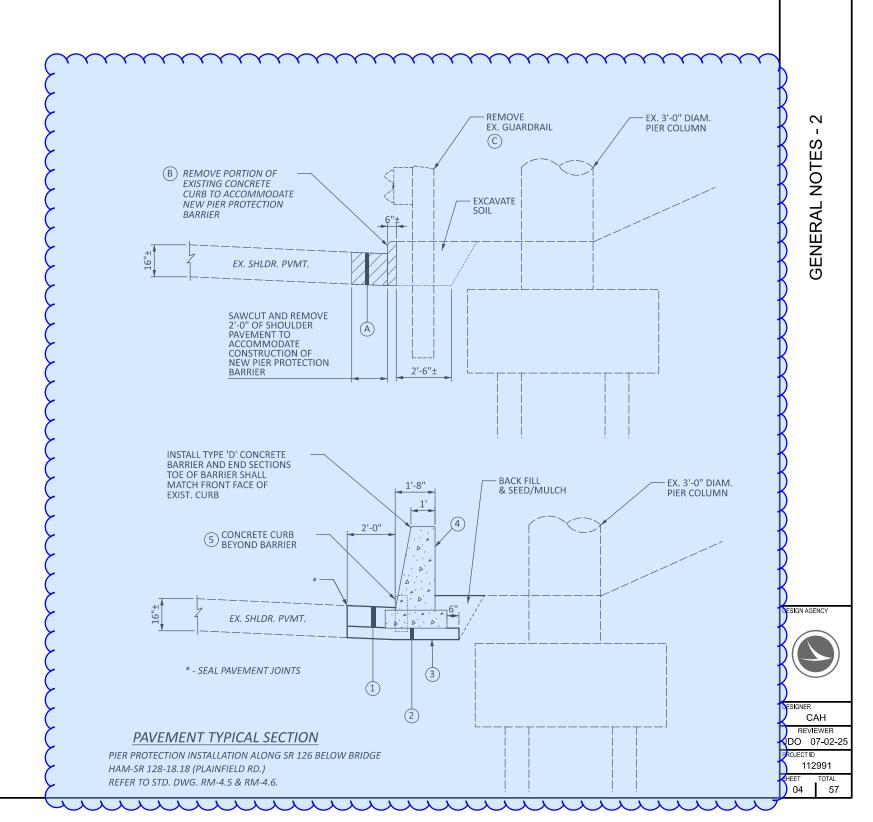
WINDSTREAM ENTERPRISES 1925 ENTERPRISE PKWY. TWINSBURG, OH 44087 DOUGLAS H NELISSE 330-650-7663 doug.nelisse@windstream.com

LEGEND

EXISTING

- (A) EX. ASPHALT
- (B) EX. CONCRETE CURB (ROUNDED EDGE)
- (C) EX. TYPE 5 GUARDRAIL

- **PROPOSED**
- (1) ITEM 452 10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QS MS
- 2 ITEM 304 6" AGGREGATE BASE
- (3) ITEM 204 SUBGRADE COMPACTION
- (4) CONCRETE BARRIER, SINGLE SLOPE, REINFORCED, TYPE D, AS PER PLAN
- (5) CONCRETE CURB, TYPE 4-C, AS PER PLAN



DL-Southern-Ohio-Outside-Plant@charter.com

wdavis@blueash.com

Andrew.carter@cincinnati-oh.gov

225 WEST GALBRAITH ROAD CINCINNATI, OH 45215

CITY OF CINCINNATI SEWER

MSDUtilityReview@cincinnati-oh.gov

daniel.louis@gcww.cincinnati-oh.gov

dcourtney@readingohio.org

COGENT COMMUNICATIONS

DUKE ENERGY ELECTRIC

CINCINNATI, OH 45202 OH/KYHouseBill@duke-energy.com

					SH	EET NUMBER						PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
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				2								2	622	25000	2	EACH	CONCRETE BARRIER END SECTION, TYPE D	
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				6								6	626	00110	6	EACH	BARRIER REFLECTOR, TYPE 2 (UNI-DIRECTIONAL)	
																	STRUCTURE REPAIR (HAM-126-1406)	13
																	STRUCTURE REPAIR (HAM-126-1530)	13
																	STRUCTURE REPAIR (HAM-126-1543)	13
																	STRUCTURE REPAIR (HAM-126-1555)	14
																	CERTIFICATION DEDAID (MAAA 400 4040)	
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REF NO.	COUNTY	ROUTE	LOG F (STAT	POINT TONS)	SIDE	GUARDRAIL REMOVED	CURB REMOVED, AS PER PLAN	DEMOVED	GUARDRAIL TYPE MGS	BRIDGE TERMINAL ASSEMBLY, MGS TYPE 1	ANCHOR ASSEMBLY, MGS TYPE E	CURB, TYPE 4-C	CONCRETE BARRIER, TYPE D	CONCRETE BARRIER END SECTION, TYPE D	CONCRETE BARRIER, END ANCHORAGE REINFORCED TYPE D	BARRIER REFLECTOR (TYPE 1) UNI- DIRECTIONAL	BARRIER REFLECTOR (TYPE 2) UNI- DIRECTIONAL	NOTES	SHEET REF
			FROM	TO		FT	FT	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH		
GR-1	HAM	126-18.18	195+20.00	198+65.00	LT	300.0	29.0	1	150.0	1	1	19	84	1	1	4	3	PIER PROTECTION ALONG SR 126	
GR2	HAM	126-18.18	193+02.00	196+51.00	RT	300.0	29.0	1	125.0	1	1	19	108	1	1	5	3	PIER PROTECTION ALONG SR 126	
TOTALS CARRIED TO GENERAL SUMMARY 600.0		600.0	58	2	275.0	2	2	38	192	2	2	9	6						

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			T					202	204	304	452	203	203
DESCRIPTION		NT (STA.)	LENGTH OR AVERAGE LENGTH (L)	BEGIN WIDTH	END WIDTH	AVERAGE WIDTH (W)	(A = L x W	PAVEMENT REMOVED, ASPHALT	SUBGRADE COMPACTION	6" AGGREGATE BASE	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	EXCAVATION	EMBANKMENT
	FROM	то	FT	FT	FT	FT	SQ FT	SQ YD	SQ YD	CU YD	SQ YD	CU YD	CU YD
S.R. 126			-				<u> </u>						
S.R. 126							\rightarrow					-	
ILL DEDTIL ACRUALT (LT. CHI DD. TO INCTALL DIED DROTECTION & TYPE 4.C. CHIDD)			+				 (-	+	
L DEPTH ASPHALT (LT. SHLDR. TO INSTALL PIER PROTECTION & TYPE 4-C CURB)	405140.00	400.05.00	247.00	2.00	2.00	2.00	604.00	77.44					
PAVEMENT REMOVED	195+18.00	198+65.00	347.00	2.00	2.00	2.00	694.00	77.11			77.44		
CONCRETE PAVEMENT	195+18.00	198+65.00	347.00	2.00	2.00	2.00	394.00			25.70	77.11		
AGGREGATE BASE	195+18.00	198+65.00	347.00	4.00 4.50	4.00 4.50	4.00	388.00 561.50		170 50	25.70			
SUBGRADE COMPACTION EXCAVATION	195+18.00 195+18.00	198+65.00 198+65.00	347.00 347.00	4.50 5.50	4.50 5.50	4.50 5.50	1908.50		173.50			58.90	
BACKFILL	195+18.00	198+65.00	347.00	3.50	3.50	3.50	214.50					38.90	37.48
DAUNFILL	193710.00	190700.00	347.00	3.50	3.30	3.50	214.50						37.40
LL DEPTH ASPHALT (RT. SHLDR. TO INSTALL PIER PROTECTION & TYPE 4-C CURB)	+	 	+	 	 	 	 (_						
PAVEMENT REMOVED	193+02.00	196+53.00	351.00	2.00	2.00	2.00	702.00	78.00					
CONCRETE PAVEMENT	193+02.00	196+53.00	351.00	2.00	2.00	2.00	702.00	70.00			78.00		
AGGREGATE BASE	193+02.00	196+53.00	351.00	2.00	4.00	4.00	404.00			26.00	70.00		
SUBGRADE COMPACTION	193+02.00	196+53.00	351.00	2.00	4.50	4.50	579.50		175.50	20.00			
EXCAVATION	193+02.00	196+53.00	351.00	5.50	5.50	5.50	1930.50		170.00			59.58	
BACKFILL	193+02.00	196+53.00	351.00	3.50	3.50	3.50	228.50					33.30	37.92
DAORITEE	133102.00	130 133.00	331.00	3.50	3.30	3.30	220.00						01.02
TOTALS CARRIED	TO GENERAL	. SUMMARY	1	1	1	ı	-	155	349	52	155	118	75
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NOTES:

EARTHWORK AND PAVEMENT QUANTITIES ARE ASSOCIATED
 WITH PIER PROTECTION BARRIER INSTALLATION.



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HAM-SR

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

BR-1-13 DATED (REVISED) 1/17/14 BR-2-15 DATED (REVISED) 7/19/24 EXJ-4-87 DATED (REVISED) 1/19/24 GSD-1-19 DATED (REVISED) 7/19/24 PCB-91 DATED (REVISED) 7/17/20 RB-1-55 DATED (REVISED) 7/19/24 DATED (REVISED) 1/17/25

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S): SS 844 DATED 1/17/25

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPOR-TATION OFFICIALS, 2023 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS WORK CONSISTS OF THE REMOVAL OF PORTIONS OF CONCRETE DECKS OR PARAPETS INCLUDING SIDEWALKS, CONCRETE BRIDGE RAILINGS, METAL RAILINGS, DECK JOINTS AND/OR OTHER APPURTENANCES FROM STEEL SUPPORTING SYSTEMS (BEAMS, GIRDERS, CROSS-FRAMES, ETC.). THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CARE-FULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING IS PERMITTED, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUT-TING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFES-SIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER S APPROVAL BEFORE PERFORMING REPAIR.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (PRESTRESSED BOX BEAM, I-BEAM, STEEL BEAM STEEL GIRDER, ETC.), THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EX-CEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRI-MARY STRUCTURAL MEMBERS. DUE TO THE POSSIBLE PRESENCE OF ATTACHMENTS (E.G., FINISHING MACHINE, SCUPPER AND FORM SUPPORTS, ETC.) TO EXISTING STRUCTURAL MEMBERS, PERFORM WORK CAREFULLY DURING DECK REMOVAL TO AVOID DAMAGING STRUCTURAL MEMBERS THAT ARE TO REMAIN. REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER OBTAIN THE ENGINEER S APPROVAL BEFORE PERFORMING REPAIR.

DECK REMOVALS - COMPOSITE DECK DESIGNS STEEL SUPERSTRUCTURES: DUE TO THE PRESENCE OF WELDED STUDS TO THE EXISTING STRUCTURAL STEEL, SUBMIT A DETAILED PROCE-DURE OF THE DECK REMOVAL TO THE ENGINEER AT LEAST 7 DAYS BEFORE CONSTRUCTION BEGINS. DEPARTMENT ACCEPTANCE IS NOT REQUIRED. THE PROCEDURE SHALL INCLUDE ALL DETAILS, EQUIP-MENT AND METHODS TO BE USED FOR REMOVAL OF THE CONCRETE OVER THE FLANGES AND AROUND THE STUDS. REPLACE OR REPAIR MAIN STEEL AND STUDS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFOR-MING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER S APPROVAL BEFORE PERFORMING REPAIR.

CUT LINE CONSTRUCTION JOINT PREPARATION SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

SUBSTRUCTURE CONCRETE REMOVAL REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE CONTRACTOR SHALL ADHERE TO ALL HAMMER WEIGHT RESTRICTIONS NOTED IN THE PLANS. OTHERWISE, THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

EXISTING WELDED ATTACHMENTS: REMOVE EXISTING WELDED ATTACHMENTS (E.G., FINISHING MACHINE AND FORM SUPPORTS; AND SUPPORTS FOR SCUPPERS AND BULB ANGLES WHICH ARE TO BE REMOVED) LOCATED IN THE DESIGNATED TENSION PORTIONS OF THE TOP FLANGES OF EXISTING STEEL MEMBERS AND GRIND THE FLANGE SURFACES SMOOTH. CAREFULLY GRIND PARALLEL TO THE FLANGES.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 - PORTIONS OF STRUCTURE REMOV-ED, AS PER PLAN. FOR MODIFICATIONS TO OR EXTENSIONS OF EXISTING CONCRETE SUBSTRUCTURE MEMBERS, INCLUDE THE FOLLOWING NOTES IN AN ITEM 202, ASPER PLAN NOTE.

MAXIMUM REMOVAL LIMITS

SOUND THE CONCRETE TO DETERMINE THE LIMITS OF THE CONCRETE TO BE REMOVED AND COMPARE THESE LIMITS TO THE AREAS SHOWN IN THE PLANS. IF NEW AREAS ARE DISCOVERED OR IF THE DIMENSIONS OF THE PLAN AREAS INCREASE BY MORE THAN 25% IN ANY DIRECTION, DOCU-MENT THE AREAS AND NOTIFY THE ENGINEER FOR EVALUATION TWO WEEKS PRIOR TO REMOVAL. THE ENGINEER WILL DETER-MIN IF PATCHING IN DISCRETE SECTIONS/STAGES IN IS NEEDED OR IF THE INSTALLATION OF TEMPORARY FALSWORK

INSTALLATION OF EXPANSION JOINT SEAL

DURING INSTALLATION OF THE SUPPORT/ARMOR FOR THE SUPERSTRUCTURE SIDE OF THE EXPANSION JOINT SEAL, OBSERVE THE SEATING OF BEAMS ON BEARINGS TO ASSURE THAT THE REQUIREMENTS OF CM&S 516 ARE MET.

PROPOSED WORK HAM-126-1406 (SFN 3104923) WHICH CARRIES EB SR 126 OVER MILL CREEK.

- ZONE PAINT STRUCTURAL STEEL PER 514 OZEU SPECIFICATIONS. COLOR SHALL BE LIGHT GREEN, FEDERAL COLOR FS-595C-14277 FOR A DISTANCE OF 10 FEET FROM THE EAST EXPANSION JOINT.
- 2. REPLACE EAST ABUTMENT BEARINGS WITH ELASTOMERIC
- REMOVE BIRDS NEST ATTACHED TO BRIDGE THAT INTERFERE WITH WORK PRIOR TO RESTRICTED NESTING SEASON. INCLUDED WITH ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN FOR PAYMENT.
- CLEAR AND GRUB WITH IN 20 FEET OF THE STRUCTURE.
- RESTRICT PAINTING/SCAFFOLDING FOR THIS STRUCTURE TO SUMMER MONTHS (JUNE 1st THRU SEPTEMBER 15th) AS FLOODWATER REACHES BEAMS REGULARLY.
- REMOVE SMASHED PORTION OF 6" CMP BRIDGE DRAINAGE THAT OUTLETS THROUGH THE SLOPE PROTECTION LEAVING A COPED END. ATTACH AN ANIMAL GUARD JUST WITHIN THE REMAINING FULL SECTION OF THE CMP PIPE.

HAM-126-1530 (SFN 3104990) WHICH CARRIES GALBRAITH RD **AND SIDEWALK OVER SR 126**

- 1. PAINT STRUCTURAL STEEL WITH PER 514 OZEU SPECIFICATIONS. COLOR SHALL BE LIGHT GREEN, FEDERAL COLOR FS-595C-14277.
- REPLACE ABUTMENT BEARINGS WITH ELASTOMERIC BEARINGS.
- PATCH DETERIORATED PORTIONS OF CONCRETE SUBSTRUCTURE AND CONCRETE BARRIER WITH 519 PATCHING. FOR AREAS LARGER THAN 5 SQ FEET, INCLUDE ANODE PER ON DETERIORATED PIER COLUMNS AREAS, WRAP THE
- CIRCUMFERENCE OF THE PIER COLUMN TO 2 FEET ABOVE THE REPAIR AREA (UNLESS SURFACE IS OBSTRUCTED BY BARRIER, CAP, ETC.) WITH FIBER REINFORCED POLYMER (FRP). ADDITIONALLY, WRAP THE TOP 2 FEET OF ALL SINGLE PIER
- SEAL CONCRETE SURFACES ON THE SUPERSTRUCTURE, PIERS, AND ABUTMENTS WITH EPOXY URETHANE SEALER. SEAL BRIDGE SIDEWALK WITH NON-EPOXY.
- CLEAR AND GRUB WITH IN 20 FEET OF THE STRUCTURE.
- PATCH TOP OF ABUTMENT BACKWALLS PER PROPOSAL NOTE
- REPAIR CRACKED WELDS IN THE REAR AND FORWARD EXPANSION JOINT ARMOR AND/OR GLAND RETAINERS USING **FULL PENETRATION WELDS.**

HAM-126-1543 (SFN 3105008) WHICH CARRIES A RAMP FROM WESTBOUND SR 126 TO GALBRAITH RD OVER SR 126

- 1. PAINT STRUCTURAL STEEL WITH PER 514 OZEU SPECIFICATIONS. COLOR SHALL BE LIGHT GREEN, FEDERAL COLOR FS-595C-14277.
- REPLACE ABUTMENT BEARINGS WITH ELASTOMERIC BEARINGS. 2.
- PATCH DETERIORATED PORTIONS OF CONCRETE SUBSTRUCTURE WITH 519 PATCHING. FOR AREAS LARGER THAN 5 SQ FEET, INCLUDE ANODE PER SS 844. ON DETERIORATED PIER COLUMNS AREAS, WRAP THE CIRCUMFERENCE OF THE PIER COLUMN TO 2 FEET ABOVE THE REPAIR AREA (UNLESS SURFACE IS OBSTRUCTED BY BARRIER, CAP, ETC.) WITH FIBER REINFORCED POLYMER (FRP).
- SEAL CONCRETE SURFACES ON THE SUPERSTRUCTURE, PIERS, AND ABUTMENTS WITH EPOXY-URETHANE SEALER.
- CLEAR AND GRUB WITH IN 20 FEET OF THE STRUCTURE.

HAM-126-1555 (SFN 3105024) WHICH CARRIES KNOLLCREST DRIVE OVER SR 126

- PAINT STRUCTURAL STEEL WITH PER 514 OZEU SPECIFICATIONS. COLOR SHALL BE LIGHT GREEN, FEDERAL
- REPLACE ABUTMENT BEARINGS WITH ELASTOMERIC BFARINGS.
- PATCH DETERIORATED PORTIONS OF CONCRETE SUBSTRUCTURE WITH 519 PATCHING. FOR AREAS LARGER THAN 5 SQ FEET, INCLUDE ANODE PER SS 844. ON DETERIORATED PIER COLUMNS AREAS, WRAP THE CIRCUMFERENCE OF THE PIER COLUMN TO 2 FEET ABOVE THE REPAIR AREA WITH FIBER REINFORCED POLYMER (FRP) UNLESS SURFACE IS OBSTRUCTED BY BARRIER, CAP,
- SEAL CONCRETE SURFACES ON THE SUPERSTRUCTURE, PIERS, AND ABUTMENTS WITH EPOXY URETHANE SEALER.
- CLEAR AND GRUB WITH IN 20 FEET OF THE STRUCTURE.
- 6. PLUG OPEN UTILITY CONDUITS WITH GROUT.

HAM-126-1818 (SFN 3105083) WHICH CARRIES PLAINFIELD RD

- PAINT STRUCTURAL STEEL WITH PER 514 OZEU SPECIFICATIONS. COLOR SHALL BE LIGHT BLUE, FEDERAL COLOR FS-595C-15526.
- REPLACE PORTIONS OF THE BARRIER THAT ARE DETERIORATED ON BOTH SIDES WITH FULL THICKNESS CONCRETE. PATCH DETERIORATED AREAS OF THE CONCRETE BARRIER THAT ARE ONLY DETERIORATED ON ONE SIDE, AND DETERIORATED PORTIONS OF THE SUBSTRUCTURE WITH 519 PATCHING. FOR AREAS LARGER THAN 5 SQ FEET, INCLUDE ANODE PER SS 844.
 - ON DETERIORATED PIER COLUMNS AREAS, WRAP THE CIRCUMFERENCE OF THE PIER COLUMN TO 2 FEET ABOVE THE REPAIR AREA WITH FIBER REINFORCED POLYMER (FRP) UNLESS SURFACE IS OBSTRUCTED BY BARRIER, CAP, ETC.
- PROTECT EXISTING PIER COLUMNS (LOCATED WITHIN 5' OF SR 126 CURB) WITH CONCRETE BARRIER
- SEAL CONCRETE SURFACES ON THE SUPERSTRUCTURE, PIERS. AND ABUTMENTS WITH EPOXY URETHANE SEALER.
- REPLACE THE DAMAGE SIDEWALK AROUND THE NORTH EAST
- REPLACE SECTIONS OF DAMAGED ALUMINUM RAILING ON THE EAST SIDE OF THE BRIDGE. REPLACE MISSING BOLTS AND WASHERS FOR THE RAILING ANCHOR BOLTS ON THE NORTHEAST WINGWALL.
- CLEAR AND GRUB WITHIN 20 FEET OF THE STRUCTURE, EXCEPT THAT THE MULCHED/LANDSCAPED AREAS SHALL NOT
- WORK AT THIS BRIDGE SHALL NOT BEGIN UNTIL 10/1/26. REFER TO "COORDINATION BETWEEN CONTRACTORS" NOTE ON SHEET 3.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS 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 C&MS, SECTIONS 102.05, 105.02, AND/OR 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.

3104923



DESIGNER	CHECKER
CAH	GTF
REVI	EWER
RSK 0	7-07-25
PROJECT ID	
112	2991
SUBSET	TOTAL
1 2	2
SHEET	TOTAL

ITEM 510, DOWEL HOLES, AS PER PLAN:

INSTALL GALVANIZED DOWEL BARS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR BLACK REBAR PUBLISHED IN THE ICC-ES REPORTS LISTED BELOW.

THE HOLES FOR THE ADHESIVE ANCHORS SHALL BE DRILLED WITH A HAMMER DRILL AND CARBIDE BIT. PRIOR TO THE INSTALLATION OF THE ANCHORS, THE HOLES SHALL BE CLEANED AND DRIED IN A MANNER CONSISTENT WITH THE MANUFACTURER'S REQUIREMENTS FOR DRY CONCRETE.

SELECT FROM ONE OF THE FOLLOWING APPROVED PRODUCTS:

HILTI HIT-HY 200 ADHESIVE ANCHORS ICC-ES REPORT ESR-3187)

DEWALT PURE110+ EPOXY ADHESIVE ANCHOR SYSTEM (ICC-ES REPORT ESR-3298)

SIMPSON STRONG-TIE SET-3G EPOXY ADHESIVE ANCHORS ICC-ES REPORT ESR-4057)

ATC ULTRABOND HS-1CC ADHESIVE ANCHOR SYSTEM (ICC-ES REPORT ESR-4094)

THE MANUFACTURER'S INSTALLATION INSTRUCTION PUBLISHED IN THE ICC-ES REPORTS FOR ACCEPTABLE PRODUCTS ARE AVAILABLE AT:

https://icc-es.org/evaluation-report-program/

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY- URETHANE) EPOXY-URETHANE SEALING OF THE STRUCTURE AS SHOWN IN THE PLANS SHALL BE COMPLETED IMMEDIATELY AFTER THE BRIDGE REPAIRS ARE COMPLETED. SEALING COLOR SHALL BE FEDERAL COLOR 17778 (LIGHT NEUTRAL).

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIRE-MENTS DEFINED IN THE PROJECT PLANS. SUBMIT CON-STRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR A DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDIGE BEARINGS CONTACT AREAS SHALL MEET THE REQUIREMENTS OF CM&S 516.07B. IF THIS REQUIREMENT IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE PROPER SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

SCUPPER, MISC.: DEBRIS REMOVAL

REMOVE ALL DIRT AND DEBRIS FROM SCUPPERS TO ENSURE POSITIVE DECK DRAINAGE. DIRT AND DEBRIS THAT IS COLLECTED SHALL BE DISPOSED OF PROPERLY. ENSURE THAT REMOVED MATERIAL WILL NOT FALL ONTO TRAFFIC.

ITEM 844 - GALVANIC ANODES PROTECTION, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 519, INSTALL
GALVANIC ANODES IN REPAIR AREAS 5 SQUARE FEET IN SIZE
OR GREATER. REPAIR CONCRETE SHALL BE HYDRAULIC
CEMENT-BASED MATERIAL WITH A ELECTRICAL RESISTIVITY
LESS THAN 50,000 OHM-CM ACCORDING TO ASTM C 1760. DO
NOT USE NON- CONDUCTIVE REPAIR MATERIALS SUCH AS
MAGNESIUM AMMONIUM PHOSPHATE CONCRETE AND EPOXY
MORTARS OR BONDING AGENTS. CONCRETE MIXES
CONTAINING HIGH LEVELS OF SUPPLEMENTARY CEMENTITIOUS
MATERIALS SUCH AS SILICA FUME, GROUND/GRANULATED BLAST
FURNACE SLAG, LATEX, FLY ASH OR METAKAOLIN MAY NOT
MEET THE RESISTIVITY REQUIREMENT.

THE GALVANIC ANODE SIZE AND SPACING IS BASED ON ACHIEVING A CURRENT DENSITY FOR THE EXTREMELY HIGH CORROSION RISK CATEGORY WITH A 20 YEAR INSTALLATION. SUPPLY ANODES WITH A MINIMUM CORE OF 160 GRAMS OF ZINC. DISTRIBUTE ANODES AT 12" ON CENTER MAX. (2 ANODES MINIMUM PER SELECTED REPAIR AREA).

DESIGN YEAR FOR THE INSTALLATION IS 2025.

ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY
THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION.
THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN
PLACE. REPLACE ALL EXISTING REINFORCING STEEL
BARS WHICH ARE TO BE INCORPORATED INTO THE NEW
WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE
UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW
REINFORCING STEEL OF THE SAME SIZE AND COATING
AT NO COST TO THE DEPARTMENT.

ITEM 509 - UNCOATED STEEL REINFORCING

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DE-SIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER

PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE: HIGH-PRESSURE WATER BLASTING WITH, OR WITHOUT, ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT OR VACUUM ABRASIVE BLASTING.

BRIDGE RAILING REMOVED, AS PER PLAN

REMOVE EXISTING RAILING AS NEEDED TO PERFORM PARAPET REPAIRS. ONCE REPAIRS ARE COMPLETED, RE-INSTALL RAILING. PROVIDE

THE FRP SHALL EXTEND 12" BEYOND THE PATCH LIMITS.

ITEM 519 - COMPOSITE FIBER REINFORCED POLYMER WRAP (FRP) PRIOR TO APPLICATION OF THE CONCRETE SEALER, CONCRETE PATCHES ON THE EXTERIOR OF THE BRIDGE SUPERSTRUCTURE THAT ARE LOCATED OVER TRAFFIC LANES AND SHOULDERS SHALL BE COVERED WITH ONE

LAYER OF CARBON COMPOSITE FIBER REINFORCED POLYMER WRAP (FRP).

ONE LAYER OF CARBON COMPOSITE FRP SHALL ALSO BE APPLIED TO CONCRETE PATCHES AT BRIDGE PIERS AS SHOWN IN THE PLANS. FRP SHALL WRAP THE ENTIRE CIRCUMFRENCE OF THE PIER COLUMNS EXCEPT WHERE THERE ARE CONFILCTS WITH EXISTING CONCRETE BARRIER.

ITEM 519 - COMPOSITE FIBER REINFORCED POLYMER WRAP (FRP) - cont'd

WHENEVER POSSIBLE. HOWEVER, THE FRP SHALL NOT EXTEND BELOW THE TOP OF CONCRETE BARRIER PIER PROTECTION IF IMMEDIATELY ADJACENT TO OR ENCASING THE PIER COLUMN. THE FRP SHALL NOT EXTEND BELOW THE GROUND LINE IF CONCRETE BARRIER PIER PROTECTION IS NOT IMMEDIATELY ADJACENT TO THE PIER COLUMN.

FRP SHALL ADHERE TO THE REQUIREMENTS OF PN 519. THE FRP
IS CONSIDERED NON-STRUCTURAL AND IS PROVIDED FOR
CONTAINMENT ONLY. NO STRESS REQUIREMENTS SHALL APPLY.
THE CONTRACTOR MAY CHOOSE THE ORIENTATION THAT THE FRP SHALL
BE APPLIED TO THE CONCRETE. THE FRP SHALL BE COVERED WITH
EPOXY -URETHANE SEALER WITHIN THIRTY (30) CALENDAR DAYS.

TTEM 517 - ALUMINUM RAILING, AS PER PLAN

REPLACE EXISTING DAMAGED RAILING WITH NEW RAILING IF
POSSIBLE. ODOT ACKNOWLEDGES THAT THERE IS LIMITED AVAILABLE
MANUFACTURING FOR TYPE 'C' DOUBLE TUBE PEDESTRIAN RAILING PER
OLD CONSTRUCTION STANDARD A-1-57. IF NEW MANUFACTURING IS NOT
POSSIBLE, ODOT WILL ACCEPT SALVAGED RAILING IN GOOD CONDITION
OR REFURBISHMENT OF THE EXISTING RAILING BACK TO GOOD CONDITION.

REPLACEMENT MATERIAL SHALL BE AS FOLLOWS:

CAST ALUMINUM POSTS SHALL BE A356 (PREVIOUSLY ASTM SG70B).
ALL RAILING TUBES SHALL END WITH A CAP. RAILING SHALL BE IN
LENGTHS OF NOT LESS THAN TWO PANELS ON ABUTMENTS AND
AT ENDS OF SUPERSTRUCTURES AND NOT LESS THAN THREE PANELS
ELSEWHERE. MINIMUM RAILING THICKNESS SHALL BE 3/16". THE
EXTREME OUTER SURFACE OF CAST RAILING POSTS SHALL BE
GIVEN A 60 GRIT FINISH.

FOR REFURBISHMENT, RE-SHAPING AND WELDING OF BENT OR SALVAGED PORTIONS OF RAILING BACK TO GOOD CONDITION SHALL BE ALLOWED.

REPLACE MISSING ANCHOR BOLT NUTS AND WASHERS.

MATERIAL, EQUIPMENT, LABOR AND ANY MISCELANEOUS ITEMS REQUIRED FOR REMOVAL, STORAGE AND RE-ERECTION OF END SECTIONS OF EXISTING ALUMINUM RAILING AS WELL AS COMPLETE REPLACEMENT AND/OR REFURBISHMENT OF DAMAGED RAILING SECTIONS WHERE SHOWN SHALL BE INCLUDED WITH ITEM 517 - ALUMINUM RAILING, AS PER PLAN FOR PAYMENT.

ITEM 513 - STRUCTURAL STEEL, MISC.: REMOVE AND RE-ERECT CROSSFRAME MEMBERS

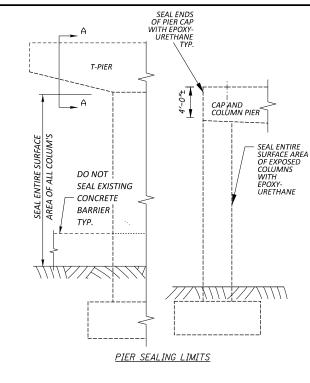
REMOVE BOTTOM INTERMEDIATE CROSSFRAME MEMBERS ATTACHED TO THE BEARING STIFFENERS AS NEEDED TO MAKE ROOM FOR INSTALLATION OF NEW BEARING ANCHOR BOLTS. RE-ATTACH THE EXISTING CROSSFRAME MEMBERS USING 5/16" FILLET WELDS.

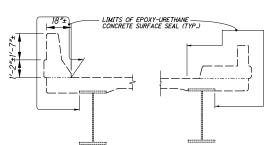
ITEM 513 - STRUCTURAL STEEL, MISC.: WELD CRACKED EXPANSION JOINT ARMOR

RECONNECT CRACKED PORTIONS OF EXISTING EXPANSION JOINT ARMOR OR RETAINERS LISING COMPLETE PENETRATION WELDS

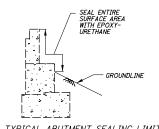
LEVELING OF BEARING SEAT

PRIOR TO INSTALLING THE REPALCEMENT BEARINGS, THE CONTRACTOR SHALL ENSURE THAT THE EXISTING BEARING SEATS ARE LEVEL. IF NOT, THE CONTRACTOR SHALL LEVEL THE CONCRETE BEARING SEAT EITHER BY GRINDING OR BY APPLICATION OF A TROWELABLE MORTAR PER SS843. THE CONTRACTOR SHALL TAKE INTO ACCOUNT A LEVEL BEARING SEAT WHEN DETERMINING THEIR MEASUREMENTS FOR THE HEIGHT OF THE PROPOSED HP SECTION. THE BEARING SEAT SHALL BE LEVEL FOR THE ENTIRE WIDTH OF THE BEARING SEAT AND FOR A DIMENSION 2" PAST THE END OF THE MASONRY PLATE ALONG THE LENGTH OF THE ABUTMENT/PIER. ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS REQUIRED TO COMPLETE THIS TASK SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 511 - CONCRETE, MISC.: LE VELING OF BEARING SEAT (EACH).

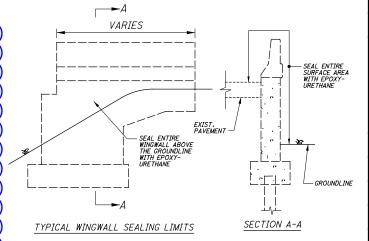




LIMITS OF SUPERSTRUCTURE CONCRETE SEALING



TYPICAL ABUTMENT SEALING LIMITS





RSK 07-07-25

112991

2

STRUCTURE NOTES BRIDGE No.: VARIE

SFN VARIES
DESIGN AGENCY
DESIGNER CHECKER CAH GTF
REVIEWER RSK 07-07-25
PROJECTID 112991
SUBSET TOTAL 2
SHEET TOTAL 57

					STRUCTURE REPAIR (HAM-126-1406) (SFN: 3104923)			100% 01/NHS FUNDING			
	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUTMENT	PIERS	SUPERSTRUCTURE	GENERAL	REFERENCE	
\sim	202	11203	LS	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	LUMP	~~~	LUMP	\sim	11	
. `	510	10001	14	EACH	BOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT, AS PER PEAN	1 1 1 Y	<u> </u>	, , , , ,	• • • •	Y 1½ Y	`)
~	511	81300	7	EACH	CONCRETE, MISC.: LEVELING BEARING SEAT	7)
Ų	513	10200	532	L LB	STRUCTURAL STEEL MEMBERS, LEVEL UIT STRUCTURAL STEEL, MISC.: REMOVE AND RE-ERECT CROSSFRAME MEMBERS	LUL	ىب	<u> </u>	سس	لىد	
	513	95020	LS	LUMP	STRUCTURAL STEEL, MISC.: REMOVE AND RE-ERECT CROSSFRAME MEMBERS			LUMP		12	
	514	00050	2945	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			2,945			
	514	00056	2945	SF	FIELD PAINTING EXISTING STRUCTURAL STEEL, PRIME COAT			2,945			
	514	00060	2945	SF SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			2,945			
	514 514	00066	2945		GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			2,945			
	514	00504 10000	2	MNHR EACH	FINAL INSPECTION REPAIR			2 2			
	514	10000		EACH	FINAL INSPECTION REPAIR			2			
	516	43400	7	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE)			7			
	310	43400	,	LACIT	(16" DIAMETER x 4.33" TALL WITH 17" DIAMETER x 1.5" LOAD PLATE AND 19"x25"x1.5" MASONRY PLATE)			,			
	516	47001	LS	LUMP	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			LUMP		12	
	518	12500	10	EACH	SCUPPER, MISC: DEBRIS REMOVAL			10		12	
	010	12000		27.01.							
				-							
				T =	STRUCTURE REPAIR (HAM-126-1530) (SFN: 3104990)			100% 01/NHS FUNDING			
	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION PORTIONS OF STRUCTURE REMOVED, OVER 30 FOOT SPAN, AS RED BLAN	ABUTMENT	PIERS	SUPERSTRUCTURE	GENERAL	REFERENCE	
\sim	202	11203	LS 24	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	LUMP	~~~	LUMP		11	\sim
	510	10001		EACH	DOWEL HOLESWITH NON-SARINK, NON-METALLICGROUT, AS PER PLAN		, , , ,	V V V V V	, , , ,	12	')
(.	511	81300	12	EACH	CONCRETE, MISC.: LEVELING BEARING SEAT	12		1 1 047 1	1 100 1		, 1
V	512	10100	245		SEALING OF CONCRETE SURFACES (NON-EPOXY) SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)			17	28		
	512 512	10100 74000	2281 2281	SY SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	724 724	370 370	853 853	334 334	12	
	512	10200	912	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF	/24	3/0	912	334		
	513	95020	LS	LUMP	STRUCTURAL STEEL, MISC.: REMOVE AND RE-ERECT CROSSFRAME MEMBERS			LUMP		12	
	513	95020	LS	LUMP	STRUCTURAL STEEL, MISC.: REMOVE AND RE-ERECT CROSSPRAINE MEMBERS STRUCTURAL STEEL, MISC.: WELD CRACKED EXPANSION JOINT ARMOR			LUMP		12	
	313	95020	LS	LOIVIP	STRUCTURAL STEEL, WISC WELD CRACKED EXPANSION JOINT ANNION			LUMP		12	
	514	00050	52512	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			52,512			
	514	00056	52512	SF	FIELD PAINTING EXISTING STRUCTURAL STEEL, PRIME COAT			52,512			
	514	00050	52512	SF	FIELD PAINTING EXISTING STRUCTURAL STEEL, INTERMEDIATE COAT			52,512			
	514	00066	52512	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			52,512			
	514	00504	39	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			39			
	514	10000	23	EACH	FINAL INSPECTION REPAIR			23			
		10000	20	E/(CIT	THE REST CONTROL OF THE PARTY O			20			
	516	43300	12	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE)			12			
					(16" DIAMETER x 3.63" WITH 17" DIAMETER x 1.5" LOAD PLATE AND 19"x25"x1.5" MASONRY PLATE)						
	516	47001	LS	LUMP	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			LUMP		12	
	519	00100	1152	SF	COMPOSITE FIBER WRAP SYSTEM		1152			12	
	519	11101	241	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	68	150	23		12	
	519	12300	14	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	14					
	844	20001	15	EACH	GALVANIC ANODE PROTECTION, AS PER PLAN	5	10			12	
					STRUCTURE REPAIR (HAM-126-1543) (SFN: 3105008)			100% 01/NHS FUNDING)		
	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION DESCRIPTION	ABUTMENT	PIERS	SUPERSTRUCTURE	GENERAL	REFERENCE	
_	202	_11203	_ LS _	LUMP		LUMP	. 12110		- TILLING	11	
\bigcirc	510	10001	16	EACH	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN DOWEL HÖLES WITH NON-SHRINK, NON-METALLIC GROUT, AS PER PLAN	16		LUMP		12	~
>	511	81300	8	EACH	CONCRETE, MISC.: LEVELING BEARING SEAT	8					
	512	10100	1058	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	198	276	584	1 1	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	, ,
	512	74000	1058 1058	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	198	276	584 584	\sim	~~~	
	513	10200	608	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			608			
	513	95020	LS	LUMP	STRUCTURAL STEEL, MISC.: REMOVE AND RE-ERECT CROSSFRAME MEMBERS			LUMP		12	
	514	00050	13148	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			13,148			
	514	00056	13148	SF	FIELD PAINTING EXISTING STRUCTURAL STEEL, PRIME COAT			13,148			
	514	00060	13148	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			13,148			
	514	00066	13148	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			13,148			
	514	00504	16	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			16			
	514	10000	6	EACH	FINAL INSPECTION REPAIR			6			
	516	44100	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12" DIAMETER x 2.37" TALL WITH			8			
					14" DIAMETER x 1.5" LOAD PLATE AND 19.375"x19.125"x1.5" MASONRY PLATE)						
	516	47001	LS	LUMP	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			LUMP		12	
	519	00100	387	SF	COMPOSITE FIBER WRAP SYSTEM		387				
	519	11101	152	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	29	123			12	
	844	20001	10	EACH	GALVANIC ANODE PROTECTION, AS PER PLAN	4	6			12	
	1							1			

HAM-SR 126-VAR

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/7/2025 TIME: 4:31:54 PM USER: choward4
pw:\text{Pohiochipodor-pw-02/Documents/01 Active Projects/District 08/Hamilton/11/296

	TIME: 4:35
r	DATE: 11/7/2025
HAINI-OK 20-VAI	MODEL: Sheet PAPERSIZE: 17x11 (in.) I

		•		STRUCTURE REPAIR (HAM-126-1555) (SFN: 3105024)			(100% 01/NHS FUNDING)		1
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUTMENT	PIERS	SUPERSTRUCTURE	GENERAL	REFERENCE	1
202	11203	LS	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	LUMP		LUMP		11	
202	70000	12	FT	FILL AND PLUG EXISTING CONDUIT	12			(12	L
Y 510	Y 10001Y	Y Y ₂₀ Y	Y YEACH Y	DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT, AS PER PLAN	Y 20 Y	YYY	Y Y Y Y Y	Y Y Y Y	Y 12 Y	Y
511	81300	10	EACH	CONCRETE, MISC.: LEVELING BEARING SEAT	10					
512	10100	<u>126</u>	L X X	SEALING OF CONCRETE SURFACES (EPOXYYURETHANE) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	192	361	V 714V V			V
512	74000	1267	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	192	361	714			
513	10200	760	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			760			
513	95020	LS	LUMP	STRUCTURAL STEEL, MISC.: REMOVE AND RE-ERECT CROSSFRAME MEMBERS			LUMP		12	
										1
514	00050	20901	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			20,901			1
514	00056	20901	SF	FIELD PAINTING EXISTING STRUCTURAL STEEL, PRIME COAT			20,901			1
514	00060	20901	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			20,901			
514	00066	20901	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			20,901			1
514	00504	25	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			25			
514	10000	9	EACH	FINAL INSPECTION REPAIR			9			
										1
516	44101	10	EACH	ELASTOMERIC BEARING WITH STEEL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (13"x13" x 2.77" TALL WITH			10			1
				14"x14"x 1.5" LOAD PLATE AND 14"x23"x1.5" MASONRY PLATE)						
516	47001	LS	LUMP	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			LUMP		12	1
519	00100	321	SF	COMPOSITE FIBER WRAP SYSTEM		321			12	
519	11101	130	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	35	95			12	1
519	12300	5	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	5					1
844	20001	6	EACH	GALVANIC ANODE PROTECTION, AS PER PLAN		6			12	

				STRUCTURE REPAIR (HAM-126-1818) (SFN: 3105083)		(100% 01/NHS FUNDING)						
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUTMENT	PIERS	SUPERSTRUCTURE	GENERAL	REFERENCE			
202	11203	LS	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	LUMP		LUMP		11			
202	38501	20	FT	BRIDGE RAILING REMOVED, AS PER PLAN			20		12			
202	75267	25	FT	VANDAL PROTECTION FENCE REMOVED AND RESET, AS PER PLAN			25		12			
511	34410	1	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			1					
512	10050	230	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)			174	56				
512	10100	687	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	272		293	122	12			
512	74000	793	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	272		399	122				
514	00050	21844	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			21,844					
514	00056	21844	SF	FIELD PAINTING EXISTING STRUCTURAL STEEL, PRIME COAT			21,844					
514	00060	21844	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			21,844					
514	00066	21844	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			21,844					
514	00504	29	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			29					
514	10000	10	EACH	FINAL INSPECTION REPAIR			10					
517	75001	20	FT	RAILING, ALUMINUM, AS PER PLAN			20		12			
519	00100	66	SF	COMPOSITE FIBER WRAP SYSTEM			66		12			
519	11101	621	SY	PATCHING CONCRETE STRUCTURE, AS PER PLAN	75	2	385	159	12			

VARIES DESIGN AGENCY



DESIGNER CHECKER
CAH GTF

REVIEWER
RSK 07-07-25

PROJECT ID
112991

SUBSET TOTAL
2 2

SHEET TOTAL
14 57

3104923

CAH

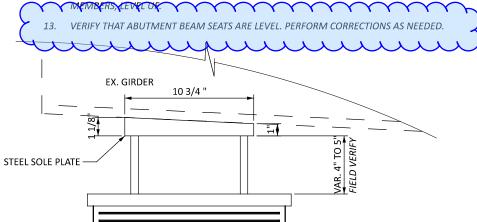
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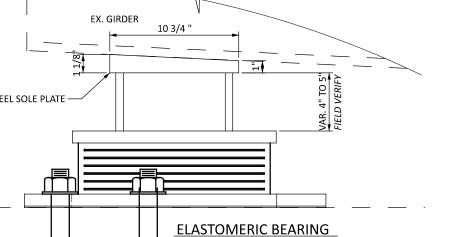
112991

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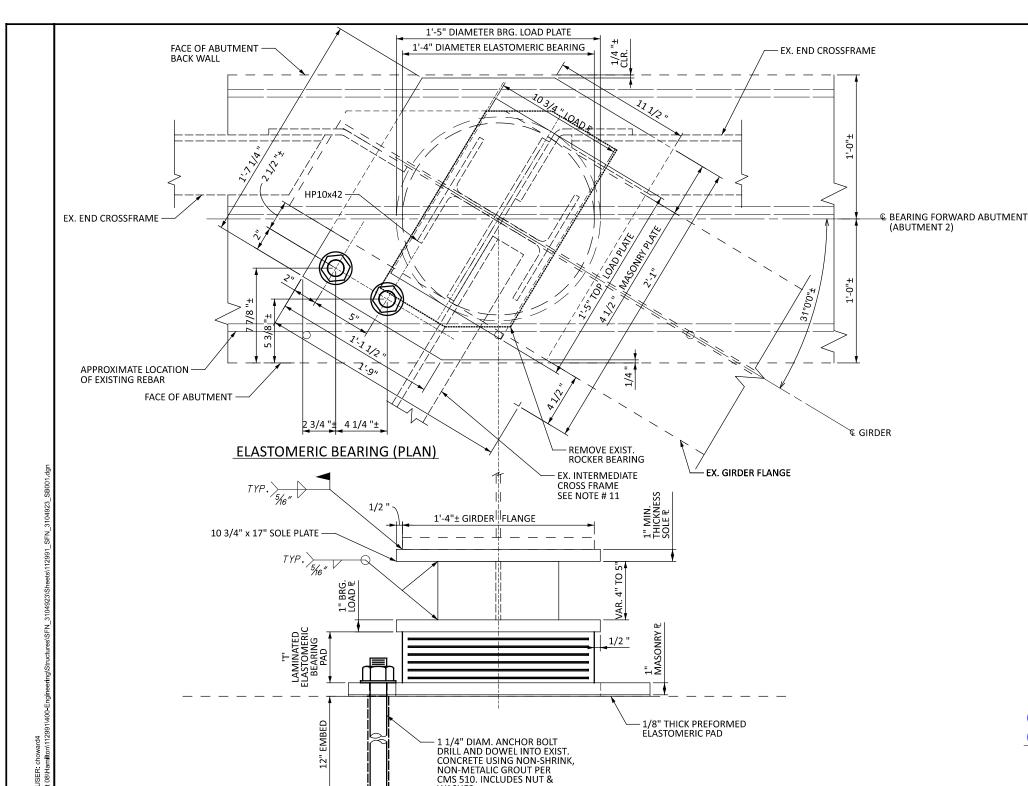
VULCANIZED LOAD PLATES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR PAYMENT. PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR ITEM 516

REMOVE AND RE-ATTACH INTERMEDIATE CROSSFRAMES AS NEEDED IF THEY INTERFERE WITH BEARING INSTALLATION. 12. THE HP SECTION AND SOLE PLATE ARE PAID FOR UNDER ITEM 513 - STRUCTURAL STEEL





SIDE VIEW



ELASTOMERIC BEARING PAD DATA FOR EXISTING BEAMS HP10x42 SUPPORT POST HEIGHT (INCH) **ELASTOMERIC PAD** BRIDGE NO. SUB-**BRIDGE MEMBER** NO. OF **LAMINATES** STRUCTURE INTER. **LAYERS** NO. THICK. 4.33" 0.30" EXPANSION 58.13 71.70 129.83 VAR. 4" TO 5' HAM-126-1406 FWD. ABUTMENT EXIST. GIRDERS 1 THRU 7 0.55" 0.1046"

ELASTOMERIC BEARING (FRONT VIEW)

ti = THICKNESS OF INTERNAL ELASTOMER LAYER

te = THICKNESS OF EXTERNAL ELASTOMER LAYER

■ W/O IMPACT

126-VAR HAM-SR

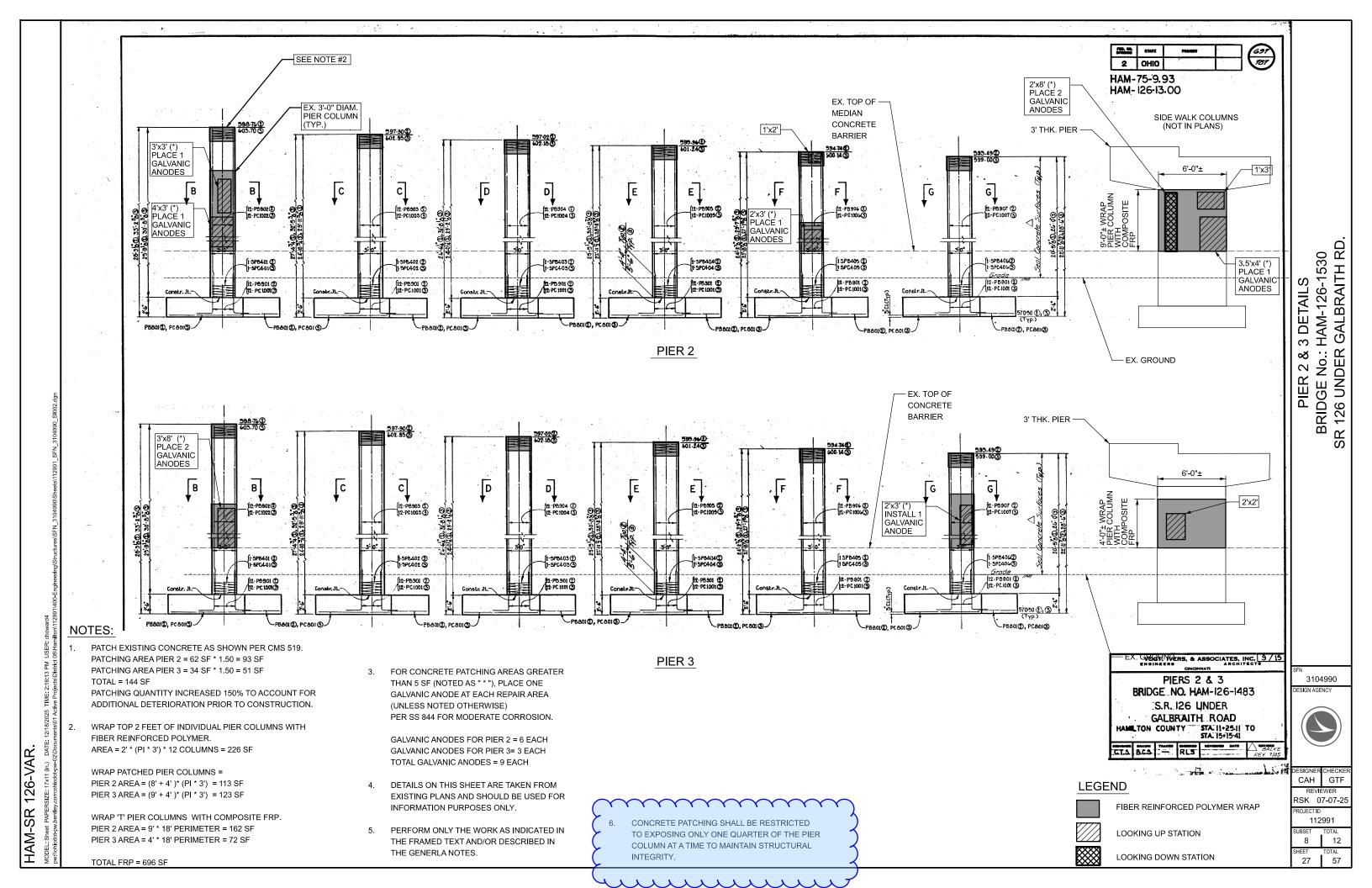
LONGITUDINAL SLOPE FORWARD ABUT. = $0.01 \, \text{FT/FT} \pm (\text{CONTRACTOR SHALL FIELD VERIFY})$

STEEL FOR BEARING LOAD PLATES AND MASONRY PLATE SHALL BE A709 GRADE 50. LOAD AND MASONRY PLATES AND HP SECTION SHALL BE PAINTED SIMILAR TO THE GIRDERS. PAYMENT INCLUDED IN ITEM 514.

NOTES:

- APPROACH SLAB AND ABUTMENT BACKWALL ONTO THE DECK AT EACH END OF THE BRIDGE

- ALL COSTS FOR MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS (i.e. SURVEY, ETC.) NECESSARY TO FURNISH AND INSTALL THE LAMINATED ELASTOMERIC BEARINGS WITH ELASTOMERIC BEARING PADS WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS



NOTES:

- STEEL FOR BEARING LOAD PLATE AND MASONRY PLATE SHALL BE A709 GRADE 50. LOAD AND MASONRY PLATES AND HP SECTION SHALL BE PAINTED SIMILAR TO THE GIRDERS. PAYMENT INCLUDED IN ITEM 514.
- THE ELASTOMER FOR THE ELASTOMERIC BEARINGS SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED UNDER DIVISION I, SECTION 14.6.6 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
- THE STEEL LOAD PLATE AND MASONRY PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS.
- SEE SHEET 2 OF 15 FOR QUANTITIES AND SHEET 10 OF 15 FOR FRAMING PLAN.
- THE CONTRACTOR SHALL VERIFY THAT THERE IS A SMOOTH TRANSITION FROM THE APPROACH SLAB AND ABUTMENT BACKWALL ONTO THE DECK AT EACH END OF THE BRIDGE ONCE THE BEARING WORK IS COMPLETED.
- WELDING OF THE LOAD PLATE TO THE HP SECTION SHALL BE CONTROLLED SO THAT THE PLATE TEMPERATURE AT THE ELASTOMERIC BONDED SURFACE DOES NOT EXCEED 300°F AS DETERMINED BY USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
- LONGITUDINAL ROADWAY SLOPE SHALL BE ACCOMODATED THROUGH BEVEL OF THE ENTIRE TOP OF THE HP SUPPORT SECTIONS.
- IN ADDITION TO THE REQUIREMENTS OF 516 AND THE DETAILS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY NECESSARY SHIMS TO PROVIDE A SNUG FIT BETWEEN THE BEARING DEVICE AND BEARING SEAT. ANY BEARING SHIMS PROVIDED SHALL BE THE SAME MATERIAL AS THE PROPOSED STEEL LOAD PLATE. SHIM PLATE FOOT PRINT SHALL MATCH THE ELASTOMERIC BEARING PAD DIMENSIONS TO ALLOW FOR FIELD WELDING TO THE LOAD PLATE USING 5/16" FILLET WELD AROUND THE ENTIRE PERIMETER OF THE SHIM PLATE.

THE CONTRACTOR SHALL ASSURE THAT ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS OR BEARING DEVICES ARE FLOATING. PRIOR TO BEARING PLACEMENT THE CONTRACTOR SHALL GRIND SMOOTH ALL EXISTING WELDS ON THE BOTTOM FLANGE OF THE GIRDER.

THE GIRDER SEAT HEIGHTS LISTED IN THE PLANS ARE PROVIDED FOR INFORMATION PURPOSES ONLY AND SHALL BE CONSIDERED TENTATIVE. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY THE EXISTING BOTTOM OF GIRDER AND GIRDER SEAT ELEVATIONS PRIOR TO THE JACKING OPERATIONS. THE CONTRACTOR IS TO SUBMIT THE VERIFIED ELEVATIONS TO THE DISTRICT 8 ENGINEER PRIOR TO THE JACKING OPERATIONS. APPROVAL OF THE ELEVATIONS IS NOT REQUIRED.

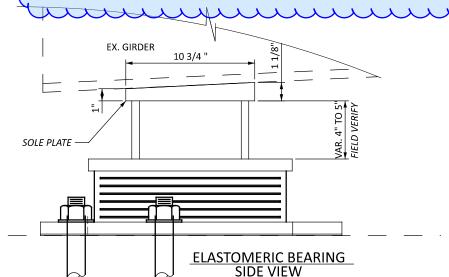
THE CONTRACTOR IS TO DETERMINE THE HEIGHT OF PROPOSED HP SECTION BY SUBTRACTING THE LOAD PLATE, MASONRY PLATE AND ELASTOMERIC BEARING THICKNESS FROM THE CONTRACTOR MEASURED DIFFERENCE BETWEEN BOTTOM OF EXISTING GIRDER ELEVATION AND EXISTING GIRDER SEAT ELEVATION AT EACH BEARING LOCATION. ANY SHIMS NEEDED AS A RESULT OF THE CONTRACTOR'S ERROR WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE AND WILL NEED TO BE APPROVED BY THE ENGINEER. IF REQUIRED, ONLY ONE BEARING SHIM WILL BE ALLOWED PER BEARING AND MUST BE INSTALLED ABOVE THE LOAD PLATE.

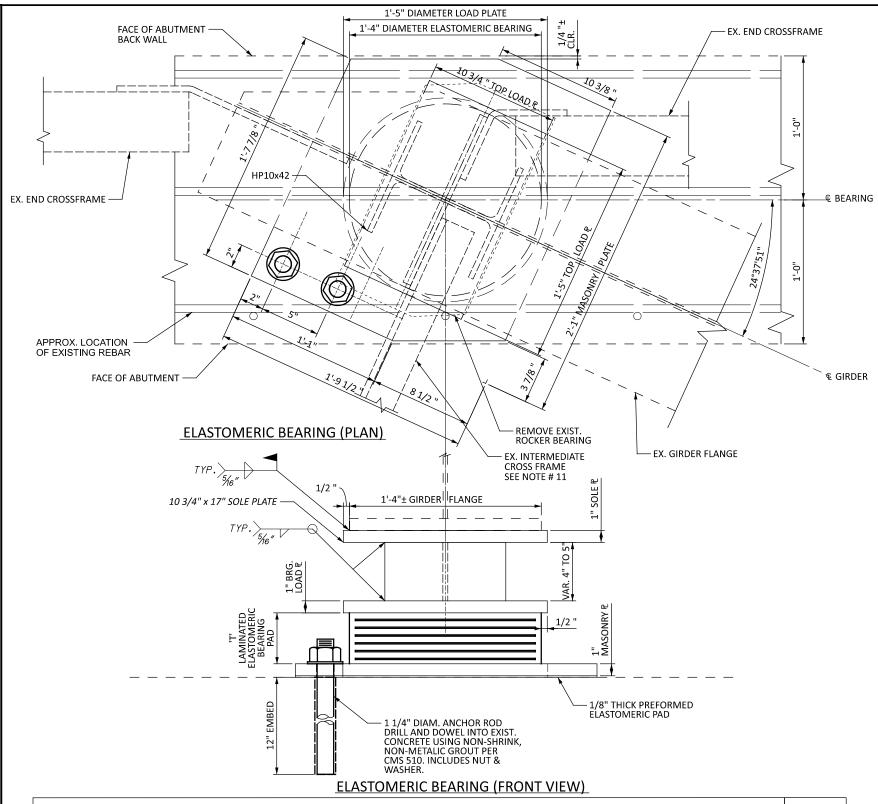
- ALL COSTS FOR MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS (i.e. SURVEY, ETC.) NECESSARY TO FURNISH AND INSTALL THE LAMINATED ELASTOMERIC BEARINGS WITH VULCANIZED LOAD PLATES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR PAYMENT. PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR ITEM 516 ELASTOMERIC BEARING PADS WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS
- REMOVE AND RE-ATTACH INTERMEDIATE CROSSFRAMES AS NEEDED IF THEY INTERFERE

THE HP SECTION AND SOLE PLATE ARE PAID FOR UNDER ITEM 513 - STRUCTURAL STEEL

MEMBERS LEWEL DE.

13. VERIFY THAT ABUTMENT BEAM SEATS ARE LEVEL. PERFORM CORRECTIONS AS NEEDED.





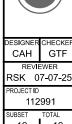
BRIDGE NO. SUB-STRUCTURE BRIDGE MEMBER T NO. OF INTER. LAYERS NO. OF INTER. LAYERS T NO. OF INTER. LAYERS INTER. LAYERS NO. OF INTER. LAYERS INTER. LAYERS INTER. LAYERS NO. OF INTER. LAYERS INTER. LAYERS INTER. LAYERS INTER. LAYERS NO. OF INTER. LAYERS IN		ELASTOMERIC BEARING PAD DATA FOR EXISTING BEAMS														
HAM-126-1530 REAR ABUTMENT EXIST. BEAMS 1 THRU 6 3.63" 5 0.55" 0.25" 6 0.1046" EXPANSION 37.56 70.5 108.06 VAR. 5" TO 6"						ELASTON	1ERIC PAD				REAC	TIONS	5	2 OST ICH)		
HAM-126-1530 REAR ABUTMENT EXIST. BEAMS 1 THRU 6 3.63" 5 0.55" 0.25" 6 0.1046" EXPANSION 37.56 70.5 108.06 VAR. 5" TO 6"	BRIDGE NO.		BRIDGE MEMBER	т	INTER.	ti	te	LAN	MINATES	ТҮРЕ		LIVE LOAD (KIPS)	MAXIMUN DESIGN LOAD (K)	HP10x4: UPPORT P HEIGHT (IN		
					LATERS			INO.	THICK.					0,2		
HAM-74-1292R FWD. ABUTMENT EXIST. BEAMS 1 THRU 6 3.63" 5 0.55" 0.25" 6 0.1046" EXPANSION 53.65 75.70 129.35 VAR. 5" TO 6"	HAM-126-1530	REAR ABUTMENT	EXIST. BEAMS 1 THRU 6	3.63"	5	0.55"	0.25"	6	0.1046"	EXPANSION	37.56	70.5	108.06	VAR. 5" TO 6"		
	HAM-74-1292R	FWD. ABUTMENT	EXIST. BEAMS 1 THRU 6	3.63"	5	0.55"	0.25"	6	0.1046"	EXPANSION	53.65	75.70	129.35	VAR. 5" TO 6"		

LONGITUDINAL SLOPE EACH ABUT. = $0.0556 \, FT/FT \pm (CONTRACTOR SHALL FIELD VERIFY)$

126-VAR

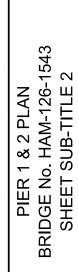
HAM-SR

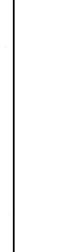
ti = THICKNESS OF INTERNAL ELASTOMER LAYER te = THICKNESS OF EXTERNAL ELASTOMER LAYER ■ W/O IMPACT

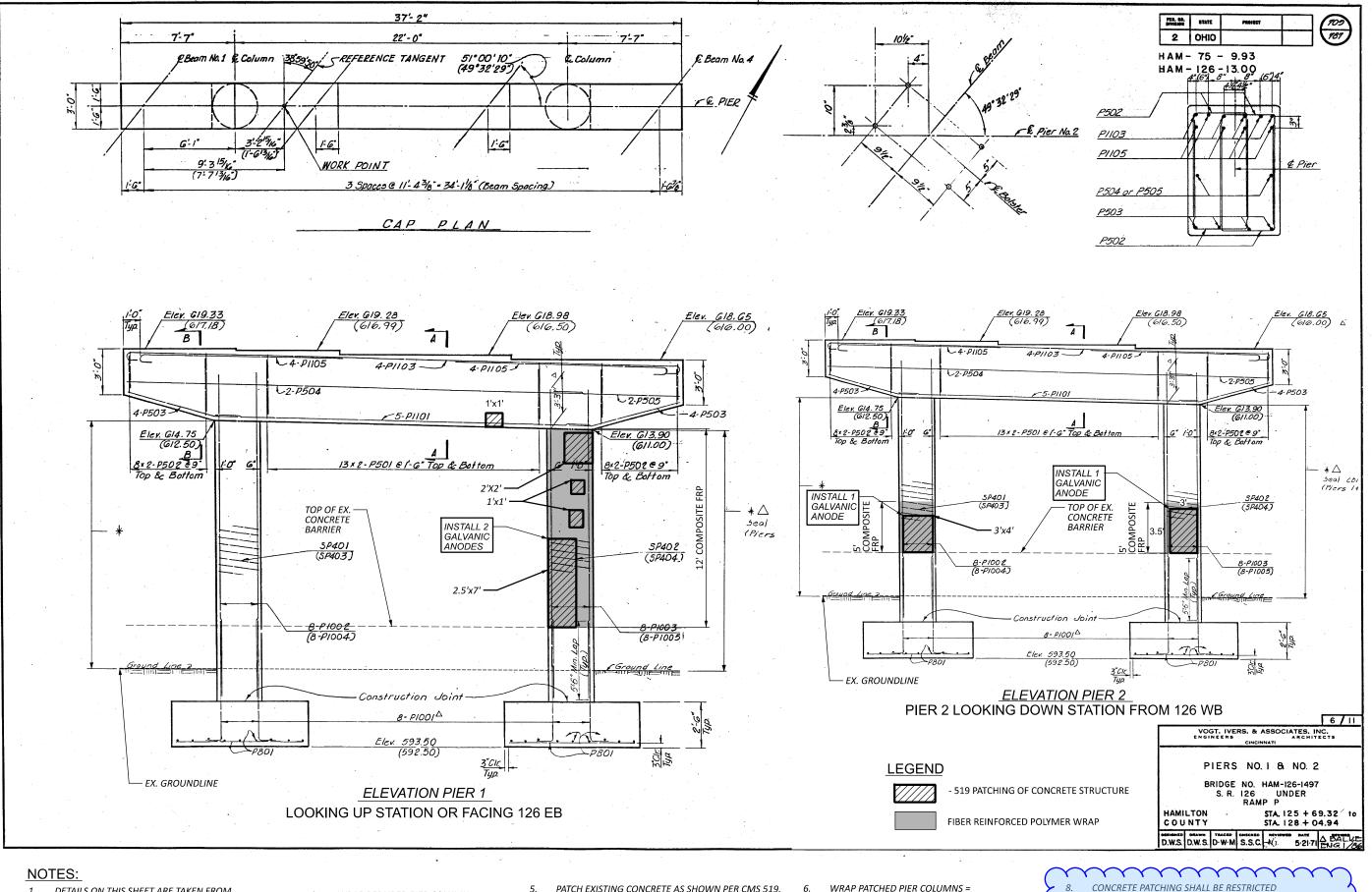


3104990

31







 DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY.

HAM-SR 126-VAR.

- 2. PERFORM ONLY THE WORK AS INDICATED IN THE FRAMED TEXT AND/OR DESCRIBED IN THE GENERLA NOTES.
- 3. WRAP REPAIRED PIER COLUMN WITH ONE LAYER OF COMPOSITE FIBER WRAP.
- 4. SEAL ALL EXPOSED PIER CONCRETE EXCEPT TOP OF PIER CAP WITH EPOXY-URETHANE.
- PATCH EXISTING CONCRETE AS SHOWN PER CMS 519.

 PATCHING AREA PIER 1 = 25 SF * 1.50 = 38 SF

 PATCHING AREA PIER 2 = 23 SF * 1.50 = 35 SF

 TOTAL = 73 SF

 PATCHING QUANTITY INCREASED 150% TO ACCOUNT FOR

ADDITIONAL DETERIORATION PRIOR TO CONSTRUCTION.

WRAP PATCHED PIER COLUMNS = PIER 1 AREA = (5')* (PI * 3') = 48 SF PIER 2 AREA = (5')* (PI * 3') = 48 SF

TOTAL FRP = 96 SF

7. TOTAL QUANTITY OF GALVANIC ANODES = 4 EACH

SFN
3105008
DESIGN AGENCY

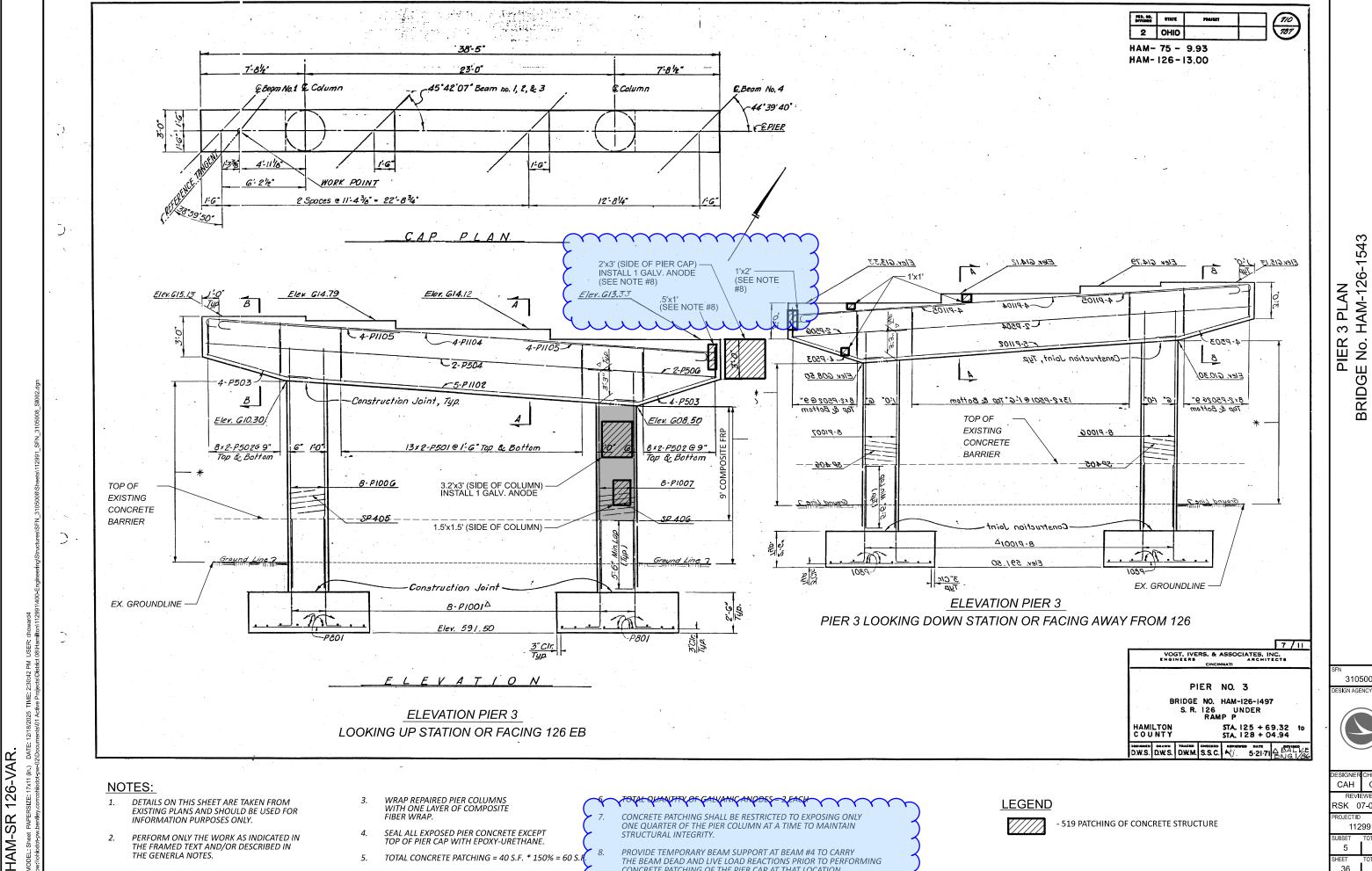


DESIGNER CHECKER
CAH GTF
REVIEWER
RSK 07-07-25
PROJECT ID
112991
SUBSET TOTAL
4 8
SHEET TOTAL
35 57

TO EXPOSING ONLY ONE QUARTER OF THE PIER

COLUMN AT A TIME TO MAINTAIN STRUCTURAL

INTEGRITY.



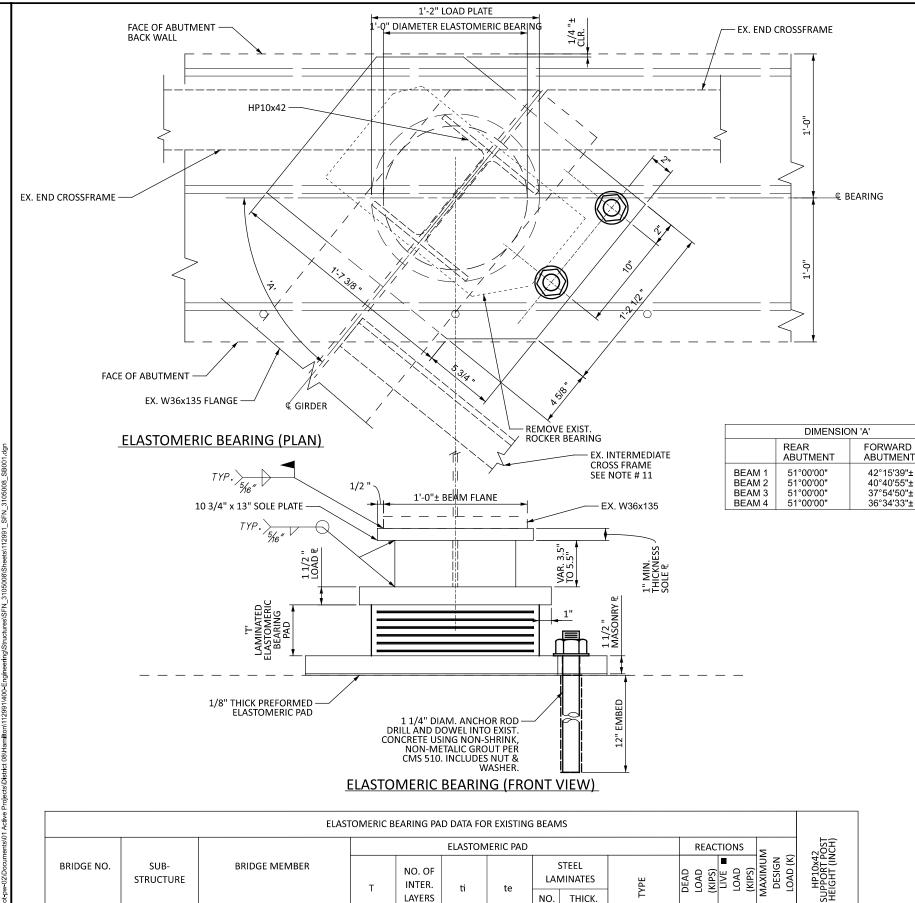
CONCRETE PATCHING OF THE PIER CAP AT THAT LOCATION.

PIER 3 PLAN BRIDGE No. HAM-126-1543 126 UNDER WB RAMP TO GALBRAITH RD.

3105008



CAH GTF RSK 07-07-25 112991 36 J



NOTES:

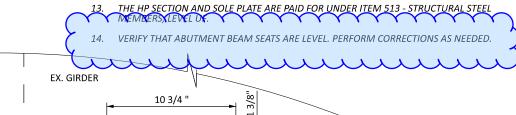
- STEEL FOR BEARING LOAD PLATE AND MASONRY PLATE SHALL BE A709 GRADE 50. LOAD AND MASONRY PLATES AND HP SECTION SHALL BE PAINTED SIMILAR TO THE GIRDERS. PAYMENT INCLUDED IN ITEM 514.
- 2. THE ELASTOMER FOR THE ELASTOMERIC BEARINGS SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED UNDER DIVISION I, SECTION 14.6.6 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
- THE STEEL LOAD PLATE AND MASONRY PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS.
- SEE SHEET 10 FOR QUANTITIES AND SHEET 32 FOR FRAMING PLAN.
- THE CONTRACTOR SHALL VERIFY THAT THERE IS A SMOOTH TRANSITION FROM THE APPROACH SLAB AND ABUTMENT BACKWALL ONTO THE DECK AT EACH END OF THE BRIDGE ONCE THE BEARING WORK IS COMPLETED.
- WELDING OF THE LOAD PLATE TO THE HP SECTION SHALL BE CONTROLLED SO THAT THE PLATE TEMPERATURE AT THE ELASTOMERIC BONDED SURFACE DOES NOT EXCEED 300°F AS DETERMINED BY USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
- LONGITUDINAL ROADWAY SLOPE SHALL BE ACCOMODATED THROUGH BEVEL OF THE ENTIRE TOP OF THE HP SUPPORT SECTIONS. CONTRACTOR SHALL FIELD VERIFY.
- IN ADDITION TO THE REQUIREMENTS OF 516 AND THE DETAILS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY NECESSARY SHIMS TO PROVIDE A SNUG FIT BETWEEN THE BEARING DEVICE AND BEARING SEAT. ANY BEARING SHIMS PROVIDED SHALL BE THE SAME MATERIAL AS THE PROPOSED STEEL LOAD PLATE. SHIM PLATE FOOT PRINT SHALL MATCH THE ELASTOMERIC BEARING PAD DIMENSIONS TO ALLOW FOR FIELD WELDING TO THE LOAD PLATE USING 5/16" FILLET WELD AROUND THE ENTIRE PERIMETER OF THE SHIM PLATE.

THE CONTRACTOR SHALL ASSURE THAT ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS OR BEARING DEVICES ARE FLOATING. PRIOR TO BEARING PLACEMENT THE CONTRACTOR SHALL GRIND SMOOTH ALL EXISTING WELDS ON THE BOTTOM FLANGE OF THE GIRDER.

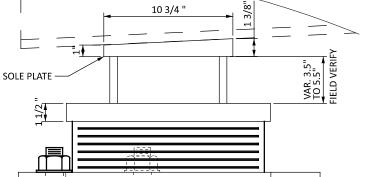
THE GIRDER SEAT HEIGHTS LISTED IN THE PLANS ARE PROVIDED FOR INFORMATION PURPOSES ONLY AND SHALL BE CONSIDERED TENTATIVE. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY THE EXISTING BOTTOM OF GIRDER AND GIRDER SEAT ELEVATIONS PRIOR TO THE JACKING OPERATIONS. THE CONTRACTOR IS TO SUBMIT THE VERIFIED ELEVATIONS TO THE DISTRICT 8 ENGINEER PRIOR TO THE JACKING OPERATIONS. APPROVAL OF THE ELEVATIONS IS NOT REQUIRED.

THE CONTRACTOR IS TO DETERMINE THE HEIGHT OF PROPOSED HP SECTION BY SUBTRACTING THE SOLE PLATE, LOAD PLATE, MASONRY PLATE AND ELASTOMERIC BEARING THICKNESS FROM THE CONTRÁCTOR MEASÚRED DIFFERENCE BETWEEN BOTTOM OF EXISTING GIRDER ELEVATION AND EXISTING GIRDER SEAT ELEVATION AT EACH BEARING LOCATION. ANY SHIMS NEEDED AS A RESULT OF THE CONTRACTOR'S ERROR WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE AND WILL NEED TO BE APPROVED BY THE ENGINEER. IF REQUIRED, ONLY ONE BEARING SHIM WILL BE ALLOWED PER BEARING AND MUST BE INSTALLED ABOVE THE LOAD PLATE.

- ALL COSTS FOR MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS (i.e. SURVEY, ETC.) NECESSARY TO FURNISH AND INSTALL THE LAMINATED ELASTOMERIC BEARINGS WITH VULCANIZED LOAD PLATES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR PAYMENT. PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR ITEM 516 -ELASTOMERIC BEARING PADS WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS
- 11. CONTRACTOR SHALL FIELD VERIFY DIMENSION 'A' PRIOR TO BEARING FABRICATION.
- REMOVE AND RE-ATTACH INTERMEDIATE CROSSFRAMES AS NEEDED IF THEY INTERFERE WITH BEARING INSTALLATION.



ELASTOMERIC BEARING SIDE VIEW



3105008



112991

39

87.50 ■ W/O IMPACT

87.50

VAR. 5" TO 6

VAR. 5" TO 6

58.50

58.50

29.00

29.00

126-VAR HAM-SR

HAM-126-1543 REAR ABUTMENT

HAM-126-1543 FWD. ABUTMENT

(CONTRACTOR SHALL FIELD VERIFY)

LONGITUDINAL SLOPE EACH ABUT. = 0.0344 FT/FT±

0.40" 0.25"

0.40"

2.37

2.37"

4

EXIST. BEAMS 1 THRU 4

EXIST. BEAMS 1 THRU 4

0.25"

ti = THICKNESS OF INTERNAL ELASTOMER LAYER

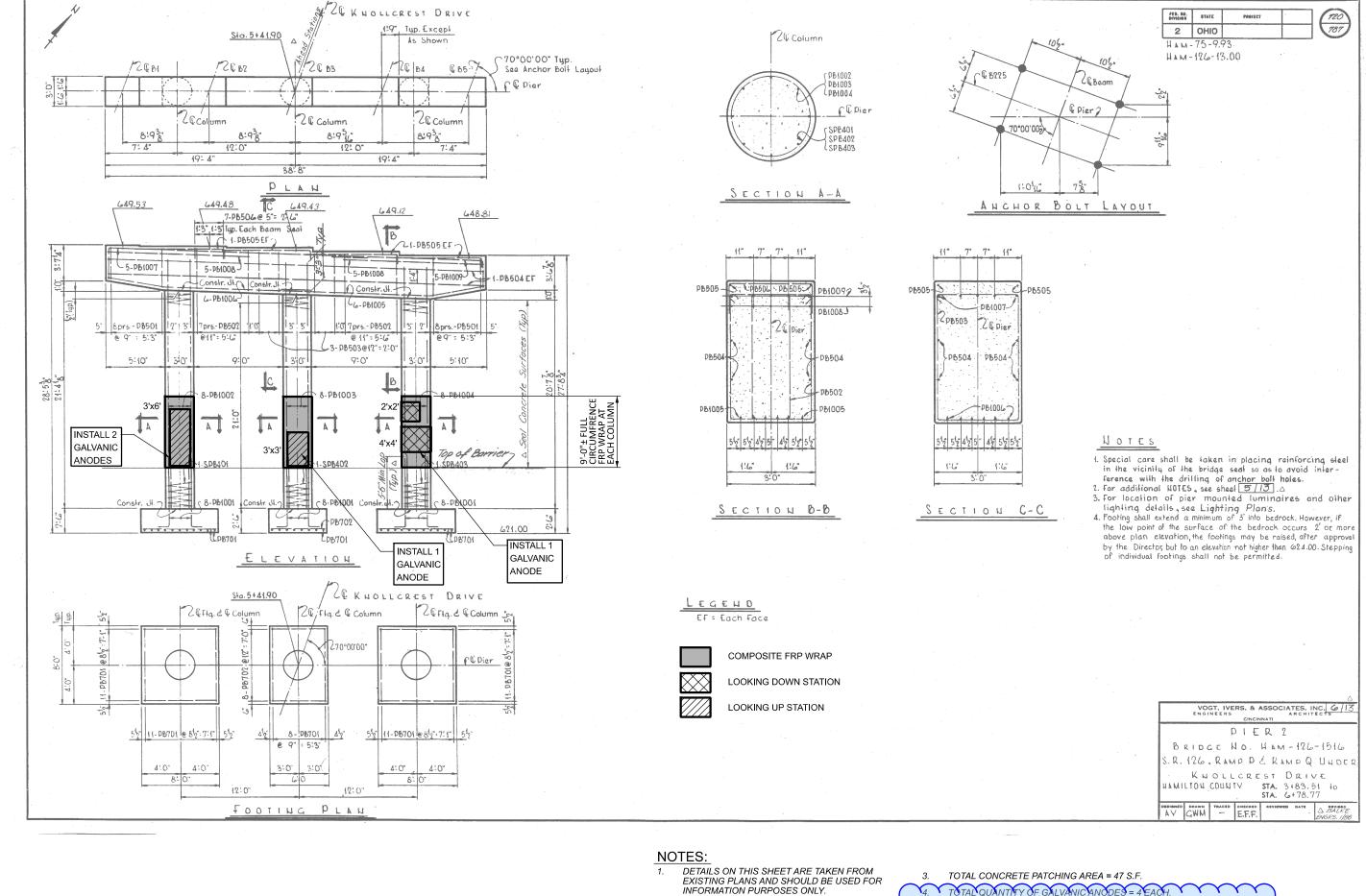
0.1046

0.1046"

EXPANSION

EXPANSION

te = THICKNESS OF EXTERNAL ELASTOMER LAYER



12/18/2025 TIME: 2:33:44 PM

HAM-SR 126-VAR.

RD PIER 2 PLAN BRIDGE No. HAM-126-1555 126 UNDER KNOLLCREST I SR

3105024

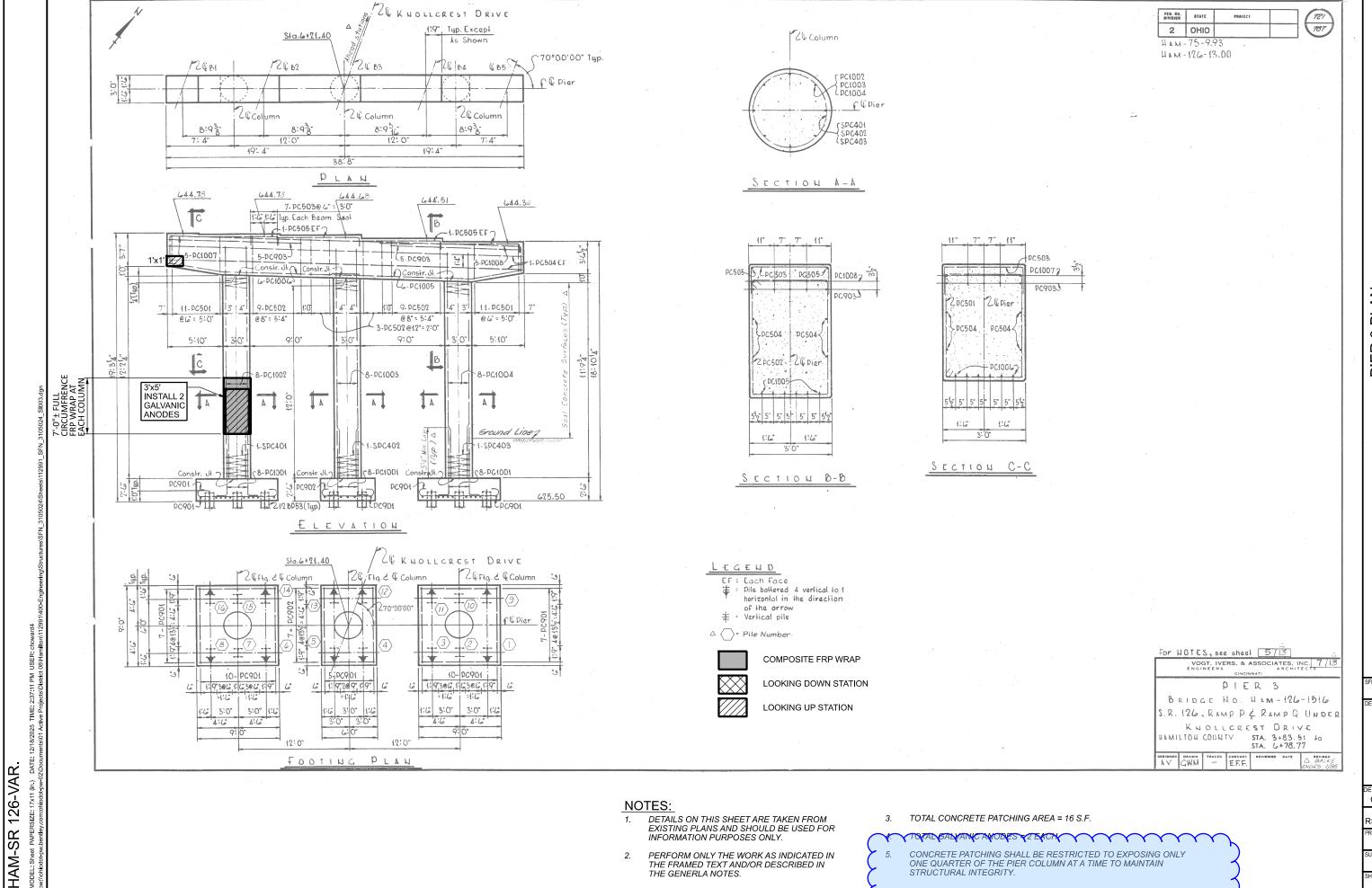


CAH GTF RSK 07-07-25 112991 5 TOTAL **57** 44

CONCRETE PATCHING SHALL BE RESTRICTED TO EXPOSING ONLY ONE QUARTER OF THE PIER COLUMN AT A TIME TO MAINTAIN

STRUCTURAL INTEGRITY.

- INFORMATION PURPOSES ONLY.
- PERFORM ONLY THE WORK AS INDICATED IN THE FRAMED TEXT AND/OR DESCRIBED IN THE GENERLA NOTES.



THE FRAMED TEXT AND/OR DESCRIBED IN

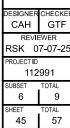
STRUCTURAL INTEGRITY.

THE GENERLA NOTES.

RD PIER 3 PLAN BRIDGE No. HAM-126-1555 126 UNDER KNOLLCREST I SR

3105024



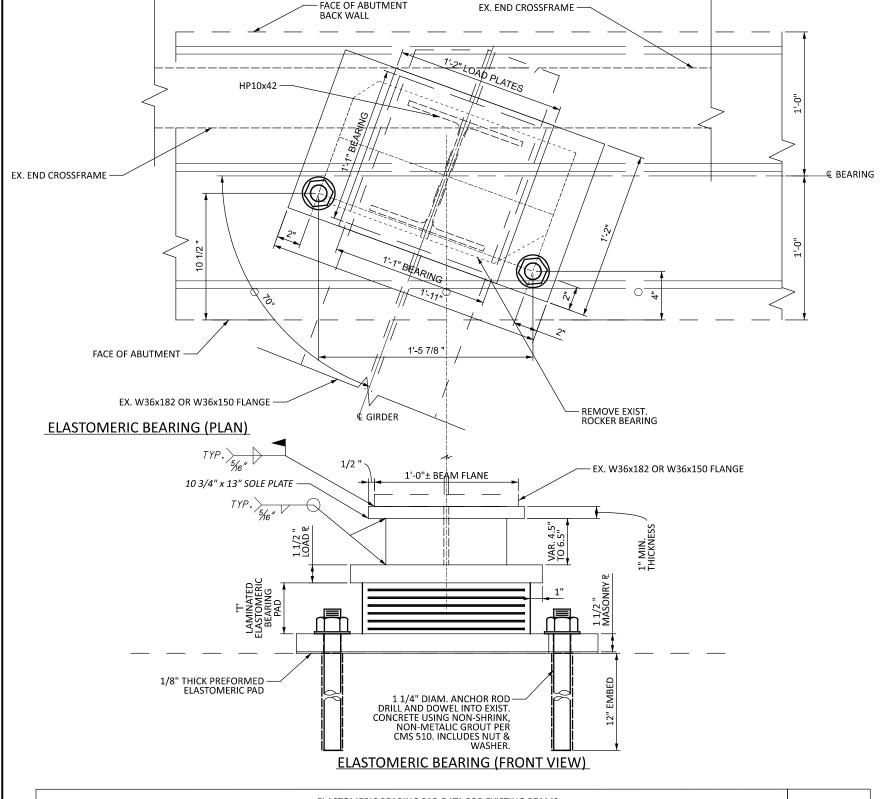


SHEET 45

126-VAR

HAM-SR

(CONTRACTOR SHALL FIELD VERIFY)



FACE OF ABUTMENT

	ELASTOMERIC BEARING PAD DATA FOR EXISTING BEAMS													
					ELASTON	1ERIC PAD				REAC	TIONS	5 _	OST (CH)	
BRIDGE NO.	SUB- STRUCTURE	BRIDGE MEMBER	Т	NO. OF INTER.	ti	te		STEEL MINATES	YPE	DEAD LOAD (KIPS)	1> < L	1AXIMUN DESIGN LOAD (K)	HP10x42 SUPPORT POST HEIGHT (INCH)	
				LAYERS			NO.	THICK.	<u></u> ⊢			2	SH	
HAM-126-1555	REAR ABUTMENT	EXIST. BEAMS 1 THRU 4	2.77"	4	0.50"	0.25"	5	0.1046"	EXPANSION	32.20	64.10	96.30	VAR. 4.5" TO 6.5"	
HAM-126-1555	FWD. ABUTMENT	EXIST. BEAMS 1 THRU 4	2.77"	4	0.50"	0.25"	5	0.1046"	EXPANSION	23.60	59.50	83.10	VAR. 4.5" TO 6.5"	
LONGITUDINAL	SLODE EVOR VBILL	- 0.06 ET/ET+												

ti = THICKNESS OF INTERNAL ELASTOMER LAYER te = THICKNESS OF EXTERNAL ELASTOMER LAYER ■ W/O IMPACT

NOTES:

- STEEL FOR BEARING LOAD PLATE AND MASONRY PLATE SHALL BE A709 GRADE 50. LOAD AND MASONRY PLATES AND HP SECTION SHALL BE PAINTED SIMILAR TO THE GIRDERS. PAYMENT INCLUDED IN ITEM 514.
- THE ELASTOMER FOR THE ELASTOMERIC BEARINGS SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED UNDER DIVISION I, SECTION 14.6.6 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
- THE STEEL LOAD PLATE AND MASONRY PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS.
- SEE SHEET 11 FOR QUANTITIES AND SHEET 41 FOR FRAMING PLAN.
- THE CONTRACTOR SHALL VERIFY THAT THERE IS A SMOOTH TRANSITION FROM THE APPROACH SLAB AND ABUTMENT BACKWALL ONTO THE DECK AT EACH END OF THE BRIDGE ONCE THE BEARING WORK IS COMPLETED.
- WELDING OF THE LOAD PLATE TO THE HP SECTION SHALL BE CONTROLLED SO THAT THE PLATE TEMPERATURE AT THE ELASTOMERIC BONDED SURFACE DOES NOT EXCEED 300°F AS DETERMINED BY USE OF PYROMETRIC STICKS OR OTHER
- LONGITUDINAL ROADWAY SLOPE SHALL BE ACCOMODATED THROUGH BEVEL OF THE ENTIRE TOP OF THE HP SUPPORT SECTIONS. CONTRACTOR SHALL FIELD VERIFY.
- IN ADDITION TO THE REQUIREMENTS OF 516 AND THE DETAILS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY NECESSARY SHIMS TO PROVIDE A SNUG FIT BETWEEN THE BEARING DEVICE AND BEARING SEAT. ANY BEARING SHIMS PROVIDED SHALL BE THE SAME MATERIAL AS THE PROPOSED STEEL LOAD PLATE. SHIM PLATE FOOT PRINT SHALL MATCH THE ELASTOMERIC BEARING PAD DIMENSIONS TO ALLOW FOR FIELD WELDING TO THE LOAD PLATE USING 5/16" FILLET WELD AROUND THE ENTIRE PERIMETER OF THE SHIM PLATE.

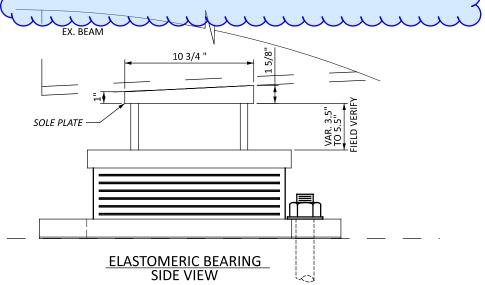
THE CONTRACTOR SHALL ASSURE THAT ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS OR BEARING DEVICES ARE FLOATING. PRIOR TO BEARING PLACEMENT THE CONTRACTOR SHALL GRIND SMOOTH ALL EXISTING WELDS ON THE BOTTOM FLANGE OF THE GIRDER.

THE GIRDER SEAT HEIGHTS LISTED IN THE PLANS ARE PROVIDED FOR INFORMATION PURPOSES ONLY AND SHALL BE CONSIDERED TENTATIVE. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY THE EXISTING BOTTOM OF GIRDER AND GIRDER SEAT ELEVATIONS PRIOR TO THE JACKING OPERATIONS. THE CONTRACTOR IS TO SUBMIT THE VERIFIED ELEVATIONS TO THE DISTRICT 8 ENGINEER PRIOR TO THE JACKING OPERATIONS. APPROVAL OF THE ELEVATIONS IS NOT REQUIRED.

THE CONTRACTOR IS TO DETERMINE THE HEIGHT OF PROPOSED HP SECTION BY SUBTRACTING THE SOLE PLATE, LOAD PLATE, MASONRY PLATE AND ELASTOMERIC BEARING THICKNESS FROM THE CONTRACTOR MEASURED DIFFERENCE BETWEEN BOTTOM OF EXISTING GIRDER ELEVATION AND EXISTING GIRDER SEAT ELEVATION AT EACH BEARING LOCATION. ANY SHIMS NEEDED AS A RESULT OF THE CONTRACTOR'S ERROR WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE AND WILL NEED TO BE APPROVED BY THE ENGINEER. IF REQUIRED, ONLY ONE BEARING SHIM WILL BE ALLOWED PER BEARING AND MUST BE INSTALLED ABOVE THE LOAD PLATE.

- ALL COSTS FOR MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS (i.e. SURVEY ALL COSTS FOR MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS (I.E. SORVET, ETC.) NECESSARY TO FURNISH AND INSTALL THE LAMINATED ELASTOMERIC BEARINGS WITH VULCANIZED LOAD PLATES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR PAYMENT. PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR ITEM 516 - ELASTOMERIC BEARING PADS WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS
- CONTRACTOR SHALL FIELD VERIFY DIMENSION 'A' PRIOR TO BEARING FABRICATION.
- THE HP SECTION AND SOLE PLATE ARE PAID FOR UNDER ITEM 513 STRUCTURAL STEEL





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