

UTILITIES

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

- BUTLER RURAL ELECTRIC COOPERATIVE, INC.
3888 STILLWELL BECKETT ROAD
OXFORD, OH 45056
513-867-4438 (RAY BRUNNER)
RAYB@BUTLERRURAL.COOP
- ALTA FIBER
221 E. 4TH ST, BLDG. 121-900
CINCINNATI, OH 45201
513-566-3154 (DERRICK BROWN)
DERRICK.BROWN@ALTA FIBER.COM
EMAIL PLANS TO ROADPROJECTS@ALTA FIBER.COM
- TALLGRASS ENERGY PARTNERS, LP
370 VAN GORDON STREET
LAKEWOOD, COLORADO 80228-1519
303-763-3417 (GREGG MCALEXANDER)
GREGG.MCALEXANDER@TALLGRASSENERGYLP.COM
- ENTERPRISE PRODUCTS OPERATING LLC
9420 W. SAM HOUSTON PKWY. NORTH
HOUSTON, TEXAS 77064
281-887-3312 (REBECCA CURRY)
LAND_ENCROACHMENTS@EPROD.COM
- TEXAS EASTERN TRANSMISSION (SPECTRA ENERGY)
1157 SR 122 WEST
LEBANON, OH 45036
(O) 513-933-6023 (RAY CLARKE)
(C) 937-901-4154
RAYMOND.CLARKE@ENBRIDGE.COM
- SOUTHWEST REGIONAL WATER DISTRICT
3640 OLD OXFORD HIGHWAY
HAMILTON, OH 45013
513-863-0828 (TOM PUCKETT)
PUCKETTT@SWWATER.ORG
- DUKE ENERGY ELECTRIC (DISTRIBUTION)
2010 DANA AVE
CINCINNATI, OH 45207
513-514-8209 (CHRIS TEPE)
CHRIS.TEPE@DUKE-ENERGY.COM
- LEVEL 3 COMMUNICATIONS
1025 ELDORADO BLVD.
BROOMFIELD, CO 80021
RELO@LEVEL3.COM

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. THIS PROJECT WILL COMPLY WITH ALL LOCAL NOISE ORDINANCES.

COORDINATION BETWEEN CONTRACTORS

THE CONSTRUCTION AT BUT-126-0308 MAY REQUIRE THE CONTRACTOR TO COORDINATE WITH THE ADJACENT PROJECT, PID 116204.

PID 116204 WILL CLOSE SR 126 IMMEDIATELY WEST OF WEAVER ROAD AND DETOUR TRAFFIC.

COOPERATION WITH THE ENGINEER, INSPECTORS, AND ALL OTHER CONTRACTORS ON OR ADJACENT TO THE PROJECT IS REQUIRED, AS PER CMS 105.08.

SEEDING AND MULCHING

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

- 659, SEEDING AND MULCHING 1215 SQ. YD.
- 659, REPAIR SEEDING AND MULCHING 61 SQ. YD.
- 659, COMMERCIAL FERTILIZER 0.16 TON
- 659, LIME 0.25 ACRES
- 659, WATER 6.7 M. GAL.
- 659, MOWING 2.7 M. SQ.FT.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL DUE TO CONTRACTOR ACTIVITY 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.

PERMANENT PAVEMENT MARKINGS

THE CONTRACTOR SHALL REFERENCE ALL PAVEMENT MARKINGS WITHIN THE WORK LIMITS BEFORE THE REMOVAL OF CONFLICTING PAVEMENT MARKINGS NECESSARY TO IMPLEMENT THE MAINTENANCE OF TRAFFIC PHASES. THIS WILL BE NECESSARY TO ASSURE CORRECT PLACEMENT OF MARKINGS IN THEIR ORIGINAL LOCATIONS.

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

CLEARING AND GRUBBING

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. 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.

SOLE SOURCE AQUIFER

THIS PROJECT IS LOCATED WITHIN THE GREATER MIAMI SOLE SOURCE AQUIFER. USE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS. DO NOT STORE FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. MAINTAIN A SPILL KIT ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. IMMEDIATELY MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS), CONTACT MORGAN TOWNSHIP VOL. FIRE DEPARTMENT (513-738-4513) IF ON SR 126, THE CROSBY TOWNSHIP FIRE DEPARTMENT (513-738-1830) IF ON SR 128, OR THE OHIO EPA'S SPILLS HOTLINE 1-800-282-9378 FOR CLEAN-UP OF THE SPILL.

DESIGN AGENCY	
DESIGNER	GTF
REVIEWER	JDO
PROJECT ID	113009
SHEET	TOTAL
2	12

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

- DBR-2-73 REVISED 7/19/2002
- DBR-3-11 REVISED 7/15/2011
- PCB-91 REVISED 7/17/2020

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

SS843 DATED 1/19/2024

DESIGN DATA

CONCRETE CLASS QC5:
 COMPRESSIVE STRENGTH 4.5 KSI (DECK PATCHING)

EXISTING STRUCTURE PLANS

THE EXISTING STRUCTURE PLANS ARE AVAILABLE ONLINE THROUGH THE FOLLOWING WEBSITE:
<ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/BUT-113009/Reference%20Files/>

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL PERTINENT EXISTING DRAWINGS AND DETAILS RELEVANT TO THIS PROJECT.

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 CMS SECTION 102.05, 105.02 AND 513.04.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

THIS WORK INCLUDES THE REMOVAL OF THE FOLLOWING:
 EXISTING W-BEAM PORTION OF BRIDGE RAIL ON BOTH SIDES OF BRIDGE No.: BUT-126-0309, PREFORMED COMPRESSION JOINT SEAL BETWEEN THE BACKWALL AND APPROACH SLAB AT BOTH ENDS OF BRIDGE No.: BUT-126-0309 & PREFORMED COMPRESSION JOINT SEAL BETWEEN THE BACKWALL AND APPROACH SLAB AT BOTH ENDS OF BRIDGE No.: HAM-128-1005.

DEEP BEAM RETROFIT RAILING, AS PER PLAN

PROVIDE AN UPGRADE RETROFIT TO THE EXISTING DEEP BEAM BRIDGE GUARDRAIL SYSTEM PER DBR-3-11. IN ADDITION TO THE REQUIREMENTS OF DBR-3-11, REMOVE THE EXISTING W-BEAM PORTION OF THE BRIDGE RAILING ON BOTH SIDES OF THE BRIDGE AND REPLACE WITH NEW W-BEAM RAIL SECTIONS.

ERECT RAIL ELEMENTS PER C&MS 606. FURNISH W-BEAM RAIL AND HARDWARD ACCORDING C&MS 710.06

PAYMENT FOR THIS WORK SHALL INCLUDE ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO PROVIDE THE UPGRADE RETROFIT TO THE EXISTING DEEP BEAM BRIDGE GUARDRAIL SYSTEM AS DESCRIBED ABOVE.

ESTIMATED QUANTITIES - STRUCTURE No.: BUT-126-0308 (SFN: 0902446) (01/STR/47 FUNDING SPLIT)										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SHEET	
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP		6
512	10100	250	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	138	13	99			
512	74000	238	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	138	13	87			
514	00050	7742	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			7,742			
514	00056	7742	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			7,742			
514	00060	7742	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			7,742			
514	00066	7742	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			7,742			
514	00504	14	MNHR	GRINDING FINNS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			14			
514	10000	4	EACH	FINAL INSPECTION REPAIR			4			
516	31000	146	FT	JOINT SEALER, HOT APPLIED 705.04	146					
517	75601	375	FT	DEEP BEAM BRIDGE RETROFIT RAILING, AS PER PLAN			375			6
519	12300	29	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B			29			
625	33000	2	EACH	STRUCTURE GROUNDING SYSTEM					2	
843	50000	8	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR			8			

ESTIMATED QUANTITIES - STRUCTURE No.: HAM-128-1005 (SFN: 3104486) (01/STR/47 FUNDING SPLIT)										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SHEET	
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP		6
512	10100	650	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	96	222	332			
512	74000	650	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	96	222	332			
514	00050	9370	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			9,370			
514	00056	9370	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			9,370			
514	00060	9370	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			9,370			
514	00066	9370	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			9,370			
514	00504	17	MNHR	GRINDING FINNS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			17			
514	10000	6	EACH	FINAL INSPECTION REPAIR			6			
516	31000	98	FT	JOINT SEALER, HOT APPLIED 705.04	98					
621	54000	8	EACH	RAISED PAVEMENT MARKER REMOVED					8	
621	00100	8	EACH	RPM					8	
644	00104	0.05	MILE	EDGE LINE, 6"					0.05	
644	00300	0.05	MILE	CENTER LINE					0.05	
646	10010	0.05	MILE	EDGE LINE, 6"					0.05	
646	10200	0.05	MILE	CENTER LINE					0.05	

SFN 0902446
 3104486

DESIGN AGENCY



DESIGNER CHECKER

GTF BP

REVIEWER

CAH 10-28-24

PROJECT ID

113009

SUBSET TOTAL

1 1

SHEET TOTAL

6 12

NOTES

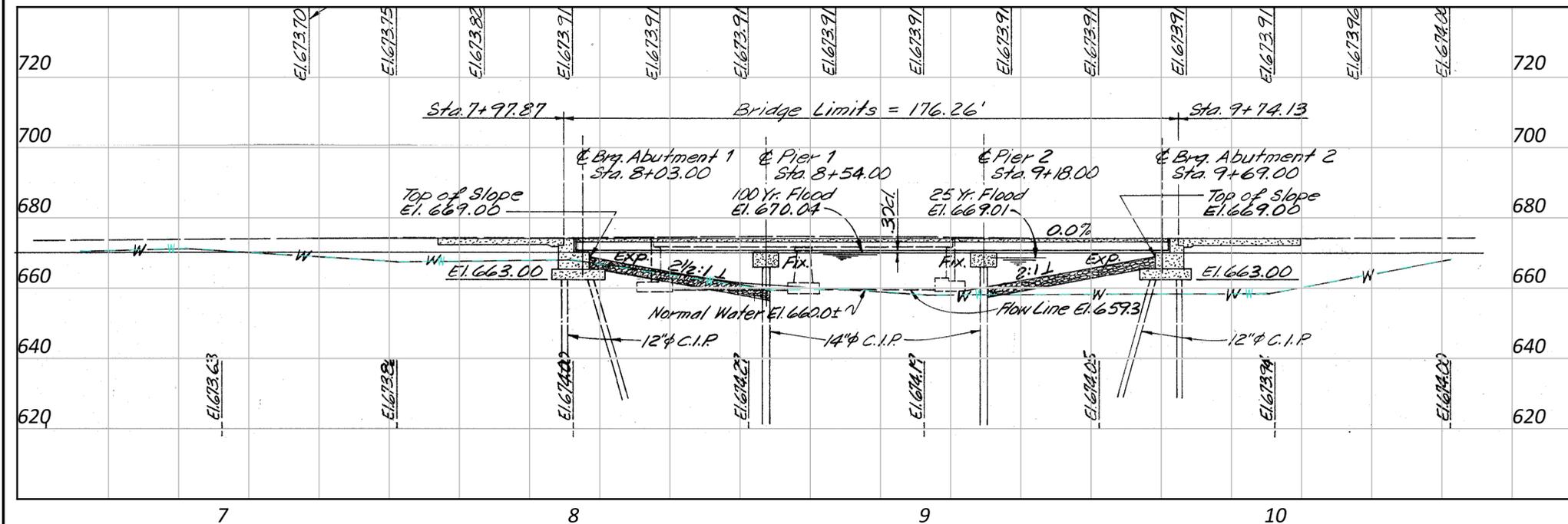
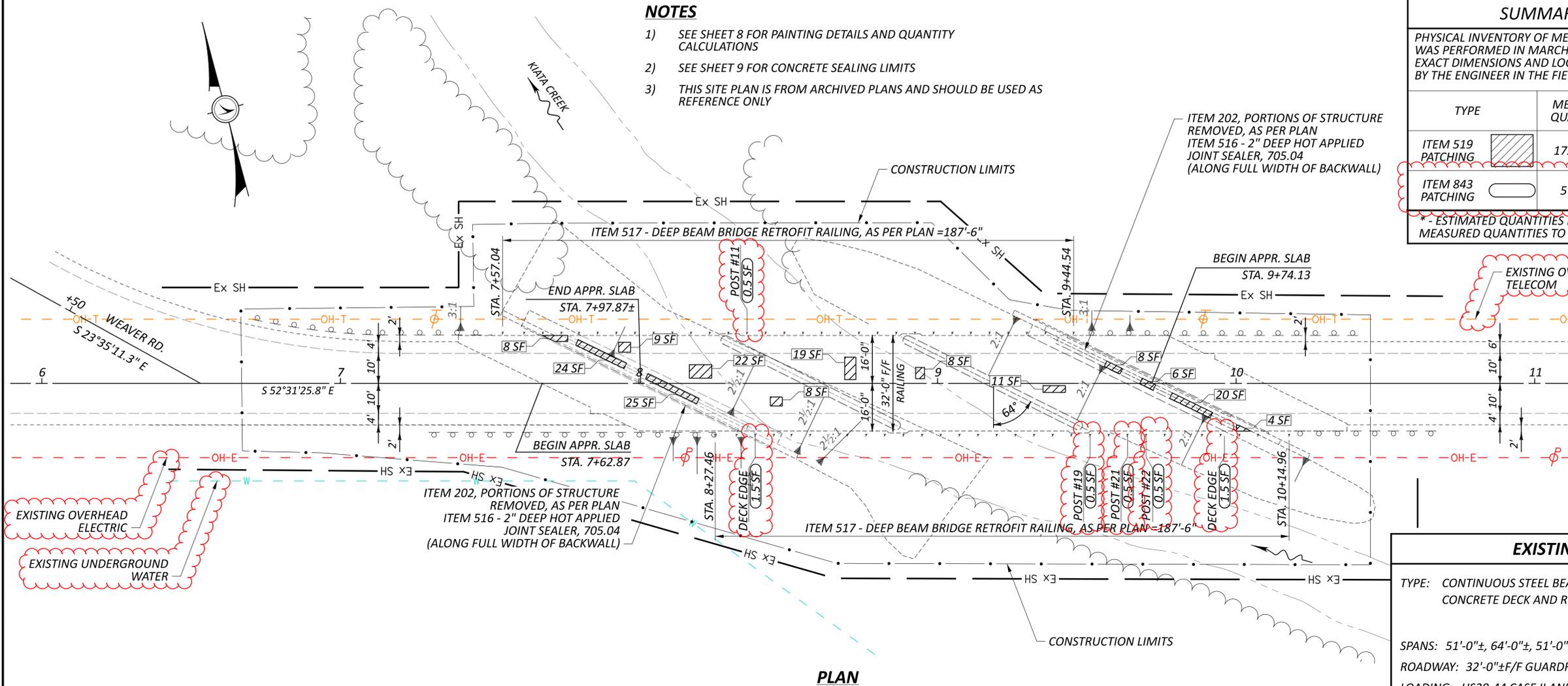
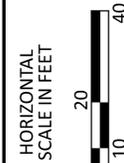
- 1) SEE SHEET 8 FOR PAINTING DETAILS AND QUANTITY CALCULATIONS
- 2) SEE SHEET 9 FOR CONCRETE SEALING LIMITS
- 3) THIS SITE PLAN IS FROM ARCHIVED PLANS AND SHOULD BE USED AS REFERENCE ONLY

SUMMARY OF REPAIR AREAS

PHYSICAL INVENTORY OF MEASURED QUANTITIES OF DETERIORATION WAS PERFORMED IN MARCH OF 2023. EXACT DIMENSIONS AND LOCATIONS OF REPAIRS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD FOR FINAL PAY QUANTITIES.

TYPE	MEASURED QUANTITIES	ESTIMATING FACTOR*	ESTIMATED QUANTITIES
ITEM 519 PATCHING	172 SQ. FT.	1.5	258 SQ. FT.
ITEM 843 PATCHING	5 SQ. FT.	1.5	7.5 SQ. FT.

* - ESTIMATED QUANTITIES HAVE BEEN INCREASED BY 50% OVER MEASURED QUANTITIES TO ALLOW FOR ADDITIONAL DETERIORATION.



PROFILE ALONG & S.R. 126

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL BEAMS WITH COMPOSITE REINFORCED CONCRETE DECK AND REINFORCED CONCRETE SUBSTRUCTURE

SPANS: 51'-0"±, 64'-0"±, 51'-0"±
 ROADWAY: 32'-0"± F/F GUARDRAIL
 LOADING: HS20-44 CASE II AND ALT. MILITARY LOADING
 SKEW: 64° R.F.
 WEARING SURFACE: 1" MONOLITHIC CONCRETE
 APPROACH SLABS: AS-1-81 (35' LONG)
 ALIGNMENT: TANGENT
 CROWN: NORMAL
 STRUCTURE FILE NUMBER: 0902446
 DATE BUILT: 7/1/1993
 DISPOSITION: SEE PROPOSED WORK
 DECK AREA: 5632 SF
 COORDINATES: LATITUDE 39° 21' 50.61"
 LONGITUDE 84° 46' 26.58"

PROPOSED WORK

- 1) PAINT THE EXISTING STRUCTURAL STEEL (A588) PER OZEU 514 SPECIFICATIONS. COLOR SHALL BE BLUE, FEDERAL COLOR FS-595C-15526.
- 2) PATCH THE UNSOUND PORTIONS OF THE WEARING SURFACE PER PROPOSAL NOTE 512, TYPE B.
- 3) RETROFIT THE RAILING PER DBR-3-11. REPLACE THE W-RAIL THE ENTIRE LENGTH OF THE BRIDGE ON BOTH SIDES.
- 4) PATCH DECK EDGE AROUND POST ANCHORAGE WITH TROWELABLE MORTAR PER SS 843.
- 5) REMOVE THE COMPRESSION SEAL BETWEEN THE BACKWALL AND APPROACH SLAB. REPLACE WITH A 2" DEEP x 1" WIDE HOT APPLIED JOINT SEALER, 705.04
- 6) PREPARE CONCRETE SURFACES, INCLUDING REMOVAL OF ALL EXISTING CONCRETE SEALERS, AND SEAL CONCRETE SURFACES WITH EPOXY-URETHANE SEALER AS INDICATED IN THE PLANS AND PER CMS 512.

SITE PLAN
BRIDGE No.: BUT-126-0308
STATE ROUTE 126 OVER KIATA CREEK

SFN	0902446
DESIGN AGENCY	
DESIGNER	GTF
CHECKER	SRK
REVIEWER	CAH
PROJECT ID	113009
SUBSET	1
TOTAL	3
SHEET	7
TOTAL	12