

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

SUM - 091 - 14.49

CITY OF HUDSON
SUMMIT COUNTY

PROJECT DESCRIPTION

PARTIAL BRIDGE REPLACEMENT OF THE WESTERN PORTION OF THE STRUCTURE OVER A TRIBUTARY OF BRANDYWINE CREEK. THE PROJECT INCLUDES CURB RELOCATION ON THE WEST SIDE AND RESURFACING TO ACCOMMODATE A NEW MULTI-USE PATH ON THE WEST SIDE.

PROJECT EARTH DISTURBED AREA: 0.48 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.125 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A NOI NOT REQUIRED

2019 SPECIFICATIONS

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

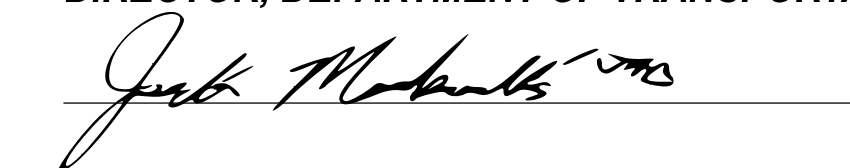
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 13 & 19, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

ADA DESIGN WAIVER

NONE REQUIRED

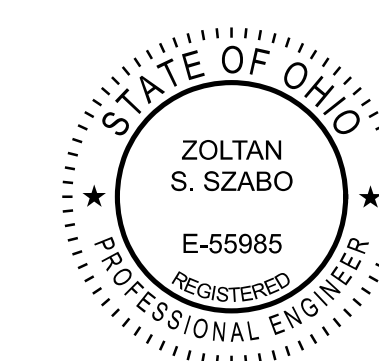
DISTRICT DEPUTY DIRECTOR

DIRECTOR, DEPARTMENT OF TRANSPORTATION



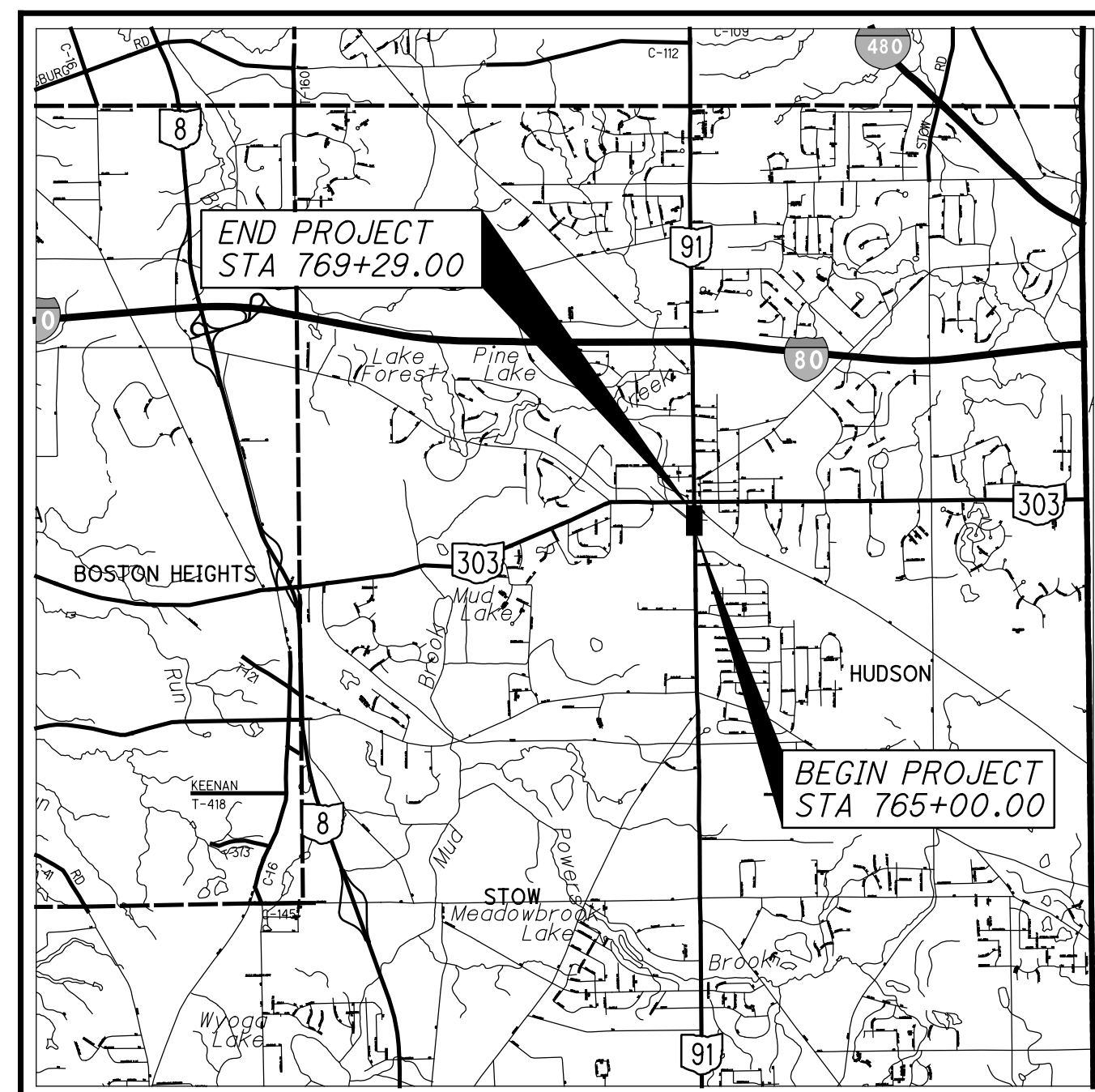
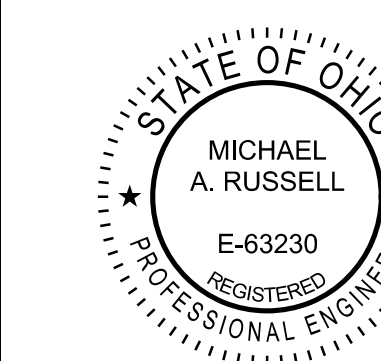
ENGINEER'S SEAL

ROADWAY



ENGINEER'S SEAL

BRIDGE



LOCATION MAP

LATITUDE: 41°14'18" LONGITUDE: 81°26'26"



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

DESIGN DESIGNATION

| | |
|-----------------------------------|--------|
| CURRENT ADT (2023) | 15,500 |
| DESIGN YEAR ADT (2043) | 15,500 |
| DESIGN HOURLY VOLUME (2043) | 1,400 |
| DIRECTIONAL DISTRIBUTION | 55% |
| TRUCKS (24 HOUR B&C) | 5% |
| DESIGN SPEED | 35 MPH |
| LEGAL SPEED | 25 MPH |
| DESIGN FUNCTIONAL CLASSIFICATION: | |
| 03 PRINCIPAL ARTERIAL (URBAN) | |
| NHS PROJECT | YES |

| | | |
|-------------------|---------------|--------------|
| DESIGN EXCEPTIONS | APPROVAL DATE | SHEET NUMBER |
| BRIDGE RAILING | 06/28/22 | 47 |

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:

M
M
MOTT
MACDONALD

18013 CLEVELAND PARKWAY DRIVE, SUITE 200, CLEVELAND, OHIO 44133
PHONE: (216) 335-3640
FAX: (216) 285-2816

INDEX OF SHEETS:

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| BP-2.1 | 1/21/22 | TC-41.20 | 10/18/13 | 800-2019 SEE PROPOSAL | ASBESTOS SURVEY |
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| | | | | 940 4/17/15 | 3/16/21 |
| CB-3 | 7/16/21 | MT-95.60 | 4/19/19 | | |
| CB-3A | 7/16/21 | MT-95.61 | 4/19/19 | | |
| CB-6 | 1/21/22 | MT-97.10 | 4/19/19 | | |
| | | MT-97.12 | 1/20/17 | | |
| DM-1.1 | 7/17/20 | MT-99.20 | 4/19/19 | | |
| DM-1.2 | 7/16/21 | MT-101.60 | 1/17/20 | | |
| DM-4.3 | 1/15/16 | MT-101.90 | 7/17/20 | | |
| DM-4.4 | 1/15/16 | MT-105.10 | 1/17/20 | | |
| | | MT-110.10 | 7/19/13 | | |

FEDERAL PROJECT NO. E180(752)
CONSTRUCTION PROJECT NO. 106136
RAILROAD INVOLVEMENT NORFOLK SOUTHERN
SUM - 091 - 14.49

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RAILROAD

ITEM 900 - FLAGGING SERVICES

FLAGGING FOR WORK ON RAILROAD RIGHT OF WAY SHALL BE COORDINATED, OBTAINED AND PAID FOR BY THE CONTRACTOR. FLAGGING SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER REQUIRED BY THE NORFOLK SOUTHERN SPECIAL PROVISIONS FOR THE PROTECTION OF RAILWAY INTEREST. NORFOLK SOUTHERN SHALL APPROVE THE FLAGGING SERVICE PROVIDER AND THEIR STAFF.

NORFOLK SOUTHERN HAS THE SOLE AUTHORITY TO DETERMINE THE NEED FOR PROTECTION SERVICES TO PROTECT ITS OPERATIONS IN GENERAL. THE REQUIREMENTS OF SUCH SERVICES WILL BE WHENEVER THE CONTRACTOR'S PERSONNEL OR EQUIPMENT ARE OR ARE LIKELY TO BE, WORKING ON THE RAILROAD'S RIGHT OF WAY, OR ACROSS, OVER, ADJACENT TO, OR UNDER A TRACK, OR WHEN SUCH WORK HAS DISTURBED OR IS LIKELY TO DISTURB A RAILROAD STRUCTURE OR THE RAILROAD ROADBED OR SURFACE AND ALIGNMENT OF ANY TRACK TO SUCH EXTENT THAT THE MOVEMENT OF TRAINS MUST BE CONTROLLED BY FLAGGING.

THE TOTAL DOLLARS IN THE ESTIMATED QUANTITIES IS BASED UPON AN ESTIMATE OF TOTAL FLAGGING DOLLARS NEEDED TO COMPLETE THE PLANNED WORK.

ONLY THE FOLLOWING CERTIFIED FLAGGING PROVIDERS ARE ACCEPTABLE BY NORFOLK SOUTHERN:

RAILROAD CONSULTANTS
STEVE LLOYD (VP BUSINESS DEVELOPMENT)
(615) 542-8901

RAILPROS
1320 GREENWAY DR., SUITE 490
IRVING, TX 75038
(877) 315-0513
<http://www.railpros.com/services-category/field-services/>

PAYMENT FOR CERTIFIED FLAGGING PROVIDERS WILL BE MADE PER ITEM 900E001000, EACH, RAILROAD FLAGGING SERVICES BASED UPON THE INVOICES RECEIVED FROM THE FLAGGING SERVICE FOR THE DOLLARS USED, INCLUDING A FIVE PERCENT MARKUP FOR CONTRACTOR OVERHEAD FOR ADMINISTERING THE CONTRACT WITH THE FLAGGING SERVICE.

IN THE EVENT THE PROJECT IS DELAYED DUE TO RAILROAD FLAGGER AVAILABILITY, THE CONTRACTOR WILL PROVIDE DOCUMENTATION SUPPORTING THEIR EFFORTS TO SCHEDULE A FLAGGER FROM THE FLAGGING SERVICE.

CALCULATED
ODOT
CHECKED
MAR

GENERAL NOTES

SUM - 091 - 14.49

STRUCTURE NOTES

ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:

DESCRIPTION:

IN ADDITION TO REMOVING THE EXISTING STRUCTURE, THIS WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING BARN STONES COMPRISING THE ABUTMENTS OF THE EXISTING STRUCTURE. THE BARN STONES ARE APPROXIMATELY 30 INCHES BY 30 INCHES AND VARY IN LENGTH FROM LESS THAN 3 FEET TO MORE THAN 8 FEET LONG.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:
LUMP

ITEM 202 - BRIDGE RAILING REMOVED FOR REUSE, AS PER PLAN:

DESCRIPTION:

THIS WORK SHALL CONSIST OF REMOVING AND STORING THE EXISTING ALUMINUM BRIDGE RAIL FOR REUSE IN THE PROPOSED PARAPET.

RAILING DAMAGED DURING REMOVAL AND/OR WHILE IN THE CONTRACTOR'S CUSTODY SHALL BE REPLACED IN-KIND BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT.

MEASUREMENT AND PAYMENT:

THE DEPARTMENT WILL MEASURE THE LINEAR FOOT QUANTITY OF BRIDGE RAIL REMOVED AND STORED. THIS SHALL INCLUDE ALL TOOLS, LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THIS ITEM OF WORK AS DESCRIBED, AND TO THE SATISFACTION OF THE ENGINEER.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN:

FURNISH STEEL SHEET PILING PER AASHTO M 202 (ASTM A328) (MINIMUM YIELD POINT 39 KSI) WITH MINIMUM SECTION MODULUS OF 10 CUBIC INCHES PER FOOT.

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF EXCAVATIONS. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN. NO ADDITIONAL PAYMENT WILL BE MADE FOR PROVIDING AN ALTERNATE DESIGN.

ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN:

DESCRIPTION:

IN ADDITION TO THE REQUIREMENTS OF C&MS 509, THIS SHALL INCLUDE PROVIDING HEADED DOWELS ON THOSE REINFORCING BARS SO DESIGNATED IN THE REINFORCING STEEL SCHEDULE.

HEADED DOWELS SHALL DEVELOP THE MINIMUM SPECIFIED TENSILE STRENGTH OF THE REINFORCING BAR PER ASTM A970, "STANDARD SPECIFICATION FOR HEADED STEEL BARS FOR CONCRETE REINFORCEMENT", CLASS A OR HA. PRIOR TO ORDERING, SUBMIT FOR APPROVAL INDEPENDENT LABORATORY TESTING CERTIFICATION CONFORMING TO THE INTERNATIONAL CODE COUNCIL (ICC) THAT THE PRODUCT(S) MEET THIS REQUIREMENT.

HEADED DOWELS MAY BE COLD-SWAGED, FORGED, OR WELDED.

ACCEPTABLE PRODUCTS INCLUDE:

BUTTONHEAD BNH, 5AB
BARSPLICE PRODUCTS, INC.
DAYTON, OH
937-275-8700
WWW.BARSPLICE.COM

D158F PLAIN END ANCHOR (5AB)
DAYTON SUPERIOR
MIAMISBURG, OH
888-977-9600
WWW.DAYTONSUPERIOR.COM

HRC 555 SERIES T-HEAD
HEADED REINFORCEMENT CORP.
FOUNTAIN VALLEY, CA
714-557-1455
WWW.HRC-USA.COM

EPOXY COAT ALL HEADED DOWELS AFTER HEAD INSTALLATION/FABRICATION.

MEASUREMENT AND PAYMENT:

THE DEPARTMENT WILL MEASURE THE POUNDS OF EPOXY COATED REINFORCING STEEL INCORPORATED INTO THE WORK. THIS SHALL INCLUDE ALL TOOLS, LABOR, MATERIALS, AND

EQUIPMENT NECESSARY TO COMPLETE THIS ITEM OF WORK AS DESCRIBED, AND TO THE SATISFACTION OF THE ENGINEER.

ITEM 517 – RAILING, MISC.: REINSTALL BRIDGE RAILING:

DESCRIPTION:

THIS WORK SHALL CONSIST OF REINSTALLING THE BRIDGE RAILING REMOVED AND STORED FOR RE-USE.

CORE OR FORM HOLES IN THE TOP OF THE PARAPET AS NECESSARY TO RECEIVE THE RAILING. HOLES TO BE 1/4" LARGER THAN THE POST DIAGONAL DIMENSION.

INSTALL THE RAILING PLUMB AND CENTERED ON THE CONCRETE PARAPET; AS WELL AS TO THE SAME ELEVATION, AND IN LINE WITH, THE ADJACENT RAILING.

GROUT IN PLACE WITH NON-SHRINK NON-METALLIC GROUT PER C&MS 510.

WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY REPLACE THE ALUMINUM RAIL WITH ANOTHER THAT MATCHES THE EXISTING RAIL'S CONFIGURATION, DETAILS, AND FINISH; AND IS PROVIDED BY THE SAME SUPPLIER AS THE ORIGINAL.

MEASUREMENT AND PAYMENT:

THE DEPARTMENT WILL MEASURE THE LINEAR FOOT QUANTITY OF REINSTALLED BRIDGE RAILING INCORPORATED INTO THE WORK. THIS SHALL INCLUDE ALL TOOLS, LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THIS ITEM OF WORK AS DESCRIBED, AND TO THE SATISFACTION OF THE ENGINEER.

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER:

DESCRIPTION:

REPLACE ALL CHANNEL EROSION PROTECTION DISTURBED BY THE WORK WITH TYPE B ROCK CHANNEL PROTECTION (RCP) 48" DEEP WITH AN AGGREGATE FILTER INCLUDING ANY SUBGRADE PREPARATION REQUIRED TO PROVIDE SOLID BEARING OF THE RCP AND FILTER PER C&MS 601.

AN ADDITIONAL 25% CONTINGENCY IS INCLUDED IN THE QUANTITIES ESTIMATED.

MEASUREMENT AND PAYMENT:

THE DEPARTMENT WILL MEASURE THE CUBIC YARDS OF TYPE A ROCK CHANNEL PROTECTION WITH AGGREGATE FILTER INCORPORATED INTO THE WORK. THIS SHALL INCLUDE ALL TOOLS, LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THIS ITEM OF WORK AS DESCRIBED, AND TO THE SATISFACTION OF THE ENGINEER.

ITEM 611 - 14' x 8' CONDUIT, TYPE A, 706.05, AS PER PLAN, DESIGN COVER 0-2 FT:

DESCRIPTION:

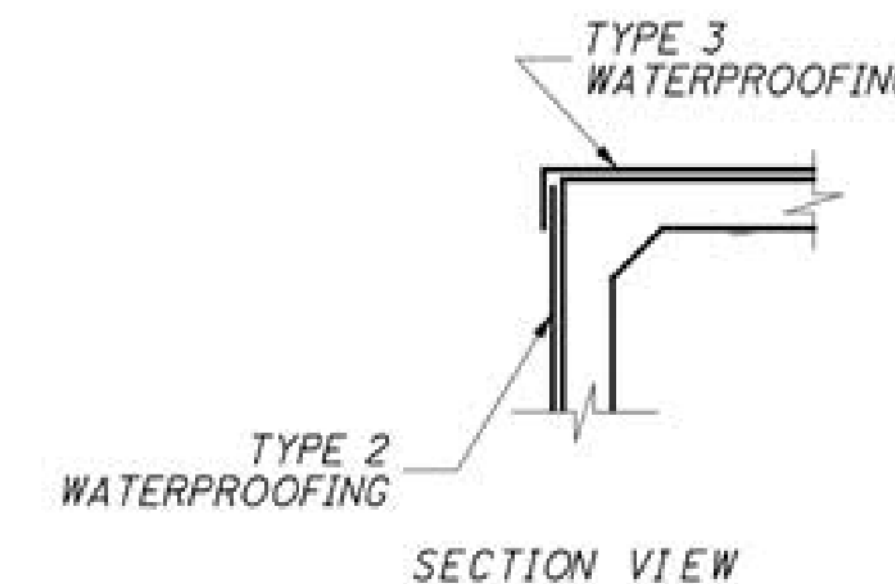
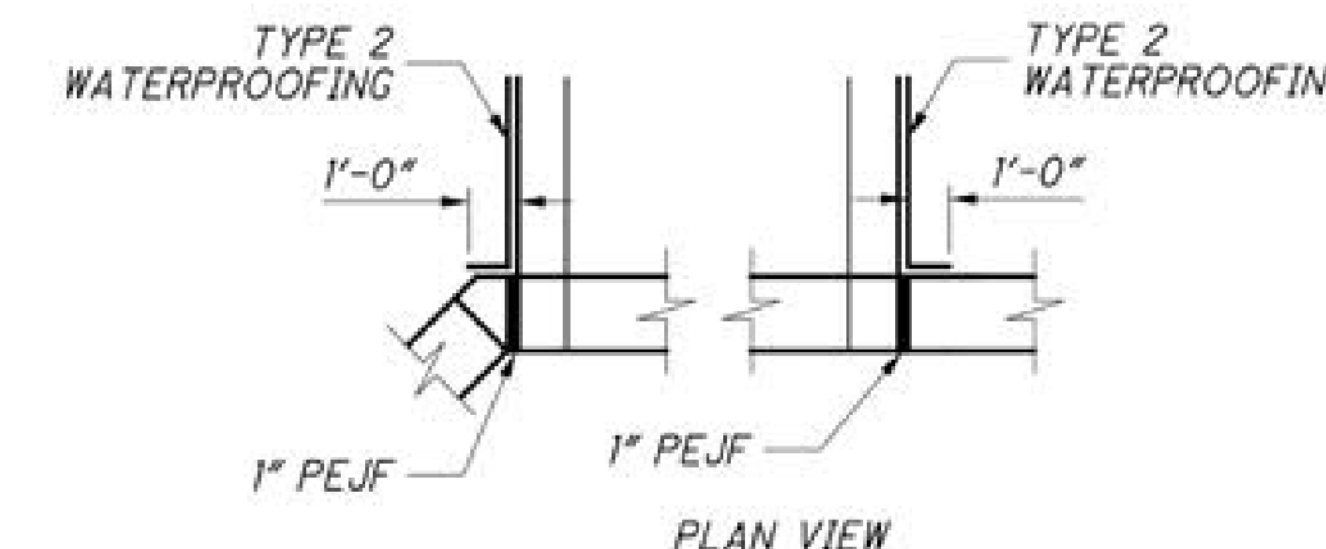
IN ADDITION TO THE REQUIREMENTS OF C&MS 611 AND SUPPLEMENTAL SPECIFICATION 940, THIS SHALL INCLUDE PROVIDING SKEWED ENDS TO THE FIRST AND LAST UNIT AS SHOWN IN THE PLANS TO PROVIDE A UNIFORM WIDTH TO THE CAST-IN-PLACE CONCRETE CLOSURES AT EITHER END OF THE BOX CULVERT. BEVELED FACES OF THESE UNITS MAY BE LEFT SMOOTH.

THIS SHALL ALSO INCLUDE PROVIDING COMPACTED FILL IN ANY VOIDS LEFT FROM REMOVALS BELOW AND TO THE SUBGRADE, BEDDING, AND BACKFILL PER 611.06.

WATERPROOFING:

TYPE 2 WATERPROOFING, PER CMS 512.09 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

TYPE 3 WATERPROOFING, PER CMS 512.10 AND 711.29 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 3 WATERPROOFING.



WATERPROOFING DETAILS

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STRUCTURE NOTES 2 OF 2

BRIDGE NO. SUM-91-14.54
OVER BRANDYWINE CREEK TRIBUTARY

SUM-091-14.49

PID No. 106136

3/9

42/58

DESIGN AGENCY
1803 CLEVELAND PKWY.
SUITE 200
CLEVELAND, OH 44135

M
MOTT
MACDONALD

DATE
11/24/20

REVIEWED
RLD
STRUCTURE FILE NUMBER
7707290

DRAWN
MAR
REVISED

DESIGNED
MAR
CHECKED
LAG

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DES. BY: MMR

CHK. BY: MAR

ESTIMATED STRUCTURAL QUANTITIES (CARRIED TO GENERAL SUMMARY)

FUNDING

| ITEM | EXT. | TOTAL | UNIT | DESCRIPTION | FTGS. | BOX | SUPER. | GEN. | SHEET REF. | 01/NHS /04 | 02/NHS /28/HUDS | 03/NHS /04/HUDS |
|------|-------|-------|------|--|-------|-----|--------|------|------------|------------|-----------------|-----------------|
| 202 | 11201 | LUMP | | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | | | | LS | 3 / 9 | LUMP | | |
| 202 | 23500 | 76 | SY | WEARING COURSE REMOVED | | | 76 | | | 76 | | |
| 202 | 38603 | 18 | FT | BRIDGE RAILING REMOVED FOR REUSE, AS PER PLAN | | | 18 | | 3 / 9 | | 18 | |
| 203 | 10000 | 36 | CY | EXCAVATION | | 36 | | | | 36 | | |
| 203 | 35120 | 36 | CY | GRANULAR MATERIAL, TYPE C (703.16) | | 36 | | | | 36 | | |
| 204 | 50000 | 72 | SY | GEOTEXTILE FABRIC | | 72 | | | | 72 | | |
| 503 | 11101 | LUMP | | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN | | | | LS | 3 / 9 | LUMP | | |
| 503 | 21100 | 320 | CY | UNCLASSIFIED EXCAVATION | | | | 320 | | 320 | | |
| 509 | 10001 | 2,782 | LB | EPOXY COATED REINFORCING STEEL, AS PER PLAN | 1,666 | 314 | 802 | | 3 / 9 | 2,782 | | |
| 510 | 10000 | 131 | EACH | DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT | 6 | 93 | 32 | | | 131 | | |
| 511 | 34410 | 6 | CY | CLASS QC2 CONCRETE, SUPERSTRUCTURE | | 6 | | | | 6 | | |
| 511 | 34448 | 2 | CY | CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET) | | | 2 | | | 2 | | |
| 511 | 46510 | 19 | CY | CLASS QC1 CONCRETE, FOOTING | 19 | | | | | 19 | | |
| 511 | 51510 | 9 | CY | CLASS QC2 CONCRETE, SIDEWALK | | | 9 | | | 9 | | |
| 512 | 10100 | 45 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | | 6 | 39 | | | 45 | | |
| 512 | 33000 | 85 | SY | TYPE 2 WATERPROOFING | | 85 | | | | 85 | | |
| 512 | 33010 | 136 | SY | TYPE 3 WATERPROOFING | | 136 | | | | 136 | | |
| 516 | 13200 | 59 | SF | 1/2" PREFORMED EXPANSION JOINT FILLER | | 30 | 29 | | | 59 | | |
| 516 | 13600 | 30 | SF | 1" PREFORMED EXPANSION JOINT FILLER | 30 | | | | | 30 | | |
| 517 | 76300 | 18 | FT | RAILING, MISC.: REINSTALL BRIDGE RAILING | | | 18 | | 3 / 9 | | 18 | |
| 601 | 32110 | 22 | CY | ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER | | 22 | | | | 22 | | |
| 611 | 96331 | 36 | FT | 14' X 8' CONDUIT, TYPE A, 706.05, AS PER PLAN, DESIGN COVER 0-2 FT | | 36 | | | 3 / 9 | 36 | | |

DESIGN AGENCY
18013 CLEVELAND PKWY.
SUITE 200
CLEVELAND, OH 44135

DATE
11/24/20

REVIEWED
RLD
STRUCTURE FILE NUMBER
7707290

DRAWN
MAR
REVISED

DESIGNED
MAR
CHECKED
LAG

STRUCTURE QUANTITIES
BRIDGE NO. SUM-91-14-54
OVER BRANDYWINE CREEK TRIBUTARY

SUM-091-14.49
PID No. 106136

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58