| SHEET NUM. | | | | | | | | | | PART. | | | | ITEM | ITEM EXT | GRAND TOTAL | UNIT | DESCRIPTION | SEE SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 12 | 14 | | | | | | | | 01/S<2/14 | 02/S<2/04 | 03/NFA/04 | 04/NFA/04 | | | | | | |
| | | | | | | | | | | | | | | | | | | **ROADWAY** | |
| | | | | | | | | | | LS | LS | | | 201 | 11000 | LS | | CLEARING AND GRUBBING | 3 |
| | | | | | | | | | | | | | | | | | | **EROSION CONTROL** | |
| | | | | | | | | | | 1,000 | 1,000 | | | 832 | 30000 | 2,000 | EACH | EROSION CONTROL | |
| | | | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (RIC-42-1632)** | |
| 18 | | | | | | | | | | 18 | | | | 202 | 11501 | 18 | EACH | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (FASCIA STONES) | 3 |
| LS | | | | | | | | | | LS | | | | 202 | 11201 | LS | | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (KNEE WALL) | 3 |
| LS | | | | | | | | | | LS | | | | 503 | 11100 | LS | | COFFERDAMS AND EXCAVATION BRACING | |
| 1,866 | | | | | | | | | | 1,866 | | | | 509 | 10001 | 1,866 | LB | EPOXY COATED REINFORCING STEEL, AS PER PLAN | 4 |
| 222 | | | | | | | | | | 222 | | | | 510 | 10000 | 222 | EACH | DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT | |
| 200 | | | | | | | | | | 200 | | | | 512 | 10600 | 200 | FT | CONCRETE REPAIR BY EPOXY INJECTION | |
| 18 | | | | | | | | | | 18 | | | | SPECIAL | 53000400 | 18 | EACH | STRUCTURES: RESET STONE MASONRY | 3 |
| 50 | | | | | | | | | | 50 | | | | 602 | 20001 | 50 | CY | CONCRETE MASONRY, AS PER PLAN | 10 |
| | | | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (RIC-430-0535)** | |
| | 19 | | | | | | | | | | 19 | | | 202 | 11301 | 19 | CY | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (EXISTING INVERT BOTTOM) | 3 |
| | 6 | | | | | | | | | | 6 | | | 202 | 35100 | 6 | FT | PIPE REMOVED, 24" AND UNDER | |
| | LS | | | | | | | | | | LS | | | 503 | 11100 | LS | | COFFERDAMS AND EXCAVATION BRACING | |
| | 39 | | | | | | | | | | 39 | | | 602 | 20001 | 39 | CY | CONCRETE MASONRY, AS PER PLAN | 4 |
| | 6 | | | | | | | | | | 6 | | | 611 | 04401 | 6 | FT | 12" CONDUIT, TYPE B, AS PER PLAN, 707.65 | 4 |
| | | | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (RIC-430-0219)** | |
| | | 8 | | | | | | | | | 8 | | | 202 | 11301 | 8 | CY | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | 4 |
| | | 170 | | | | | | | | | | 110 | 60 | SPECIAL | 20270130 | 170 | FT | PIPE CLEANOUT OVER 48" | 3 |
| | | LS | | | | | | | | | LS | | | 503 | 11100 | LS | | COFFERDAMS AND EXCAVATION BRACING | |
| | | 854 | | | | | | | | | 854 | | | 509 | 10001 | 854 | LB | EPOXY COATED REINFORCING STEEL, AS PER PLAN | 4 |
| | | 272 | | | | | | | | | 272 | | | 510 | 10000 | 272 | EACH | DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT | |
| | | 25 | | | | | | | | | 25 | | | 602 | 20001 | 25 | CY | CONCRETE MASONRY, AS PER PLAN | 4 |
| | | 172 | | | | | | | | | | 112 | 60 | 611 | 96551 | 172 | FT | FIELD PAVING OF EXISTING PIPE, AS PER PLAN (78" X 108" CMP ARCH) | 4 |
| | | 93 | | | | | | | | | | 93 | | 611 | 96551 | 93 | FT | FIELD PAVING OF EXISTING PIPE, AS PER PLAN (DEFORMED 102" CMP) | 4 |
| | | 3 | | | | | | | | | 1 | 1 | 1 | SPECIAL | 61196650 | 3 | CY | GROUTING VOIDS AROUND CORRUGATED METAL PIPES | 4 |
| | | | | | | | | | | | | | | | | | | **MAINTENANCE OF TRAFFIC** | |
| | | | | | | | | | | 16 | 32 | | | 614 | 11110 | 48 | HOUR | LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE | 6 |
| | | | | | | | | | | 4 | 4 | | | 614 | 18601 | 8 | SNMT | PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN | 5 |
| | | | | | | | | | | | | | | | | | | **INCIDENTALS** | |
| | | | | | | | | | | LS | LS | | | 614 | 11000 | LS | | MAINTAINING TRAFFIC | |
| | | | | | | | | | | 3 | 3 | | | 619 | 16000 | 6 | MNTH | FIELD OFFICE, TYPE A | |
| | | | | | | | | | | LS | LS | | | 623 | 10000 | LS | | CONSTRUCTION LAYOUT STAKES AND SURVEYING | |
| | | | | | | | | | | LS | LS | | | 624 | 10000 | LS | | MOBILIZATION | |

GENERAL SUMMARY

RIC-BH-FY2023

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 1/19/2023 TIME: 2:39:04 PM USER: graham1
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Richland\100079\400-Engineering\Roadway\Sheets\100079_GG001.dgn

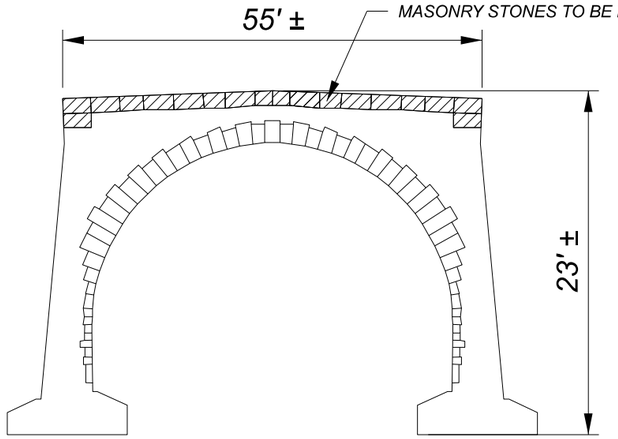
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM FOUR

DESIGNER
KCK

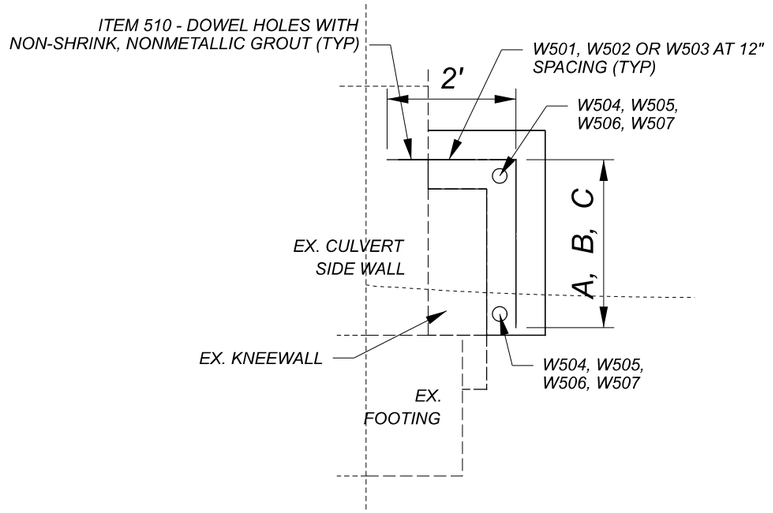
REVIEWER
TPG 08-2021

PROJECT ID
100079

SHEET P.07 TOTAL 27




ELEVATION OF INTAKE (NORTH) OF STRUCTURE
WINGWALLS NOT SHOWN




KNEE WALL REINFORCMENT DETAIL

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (FASCIA STONES)

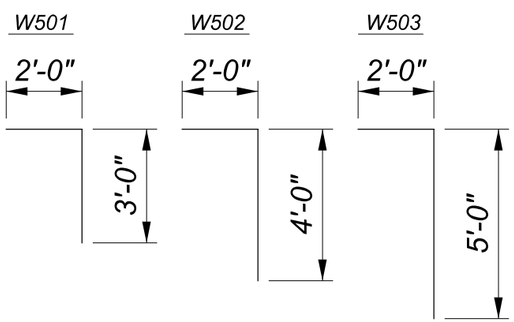
## STRUCTURE QUANTITIES

| ITEM | QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|
| 202 | 18 | EACH | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (FASCIA STONES) |
| 202 | LS | LS | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (KNEEWALL) |
| 503 | LS | LS | COFFERDAMS AND EXCAVATION BRACING |
| 509 | 1866 | LB | EPOXY COATED REINFORCING STEEL, AS PER PLAN |
| 510 | 222 | EACH | DOWEL HOLES WITH NON-SHRINK, NONMETALLIC GROUT |
| 512 | 200 | FT | CONCRETE REPAIR BY EPOXY INJECTION |
| 602 | 50 | CY | CONCRETE MASONRY, AS PER PLAN |
| SPECIAL | 18 | EACH | STRUCTURES: RESET STONE MASONRY |

ALL QUANTITIES CARRIED TO THE GENERAL SUMMARY

## BAR CHART

| MARK | TYPE | LENGTH (FEET) | | | QTY NEEDED | WEIGHT (LBS) | |
|---|---|---|---|---|---|---|---|
| | | HORIZ | VERTICAL | OVERALL | | EACH | TOTAL |
| W501 | BENT | 2.00 | 3.00 | 5.00 | 65 | 5.22 | 339 |
| W502 | BENT | 2.00 | 4.00 | 6.00 | 114 | 6.26 | 714 |
| W503 | BENT | 2.00 | 6.00 | 8.00 | 43 | 8.34 | 359 |
| W504 | STR | | | 106.80 | 2 | 111.39 | 223 |
| W505 | STR | | | 32.47 | 2 | 33.86 | 68 |
| W506 | STR | | | 56.89 | 2 | 59.33 | 119 |
| W507 | STR | | | 21.05 | 2 | 21.96 | 44 |




NOTES:

1. INJECT EPOXY INTO HORIZONTAL CRACKS THROUGHOUT THE INTERIOR OF THE STRUCTURE THAT ARE 5'-6' ABOVE WATER LINE AS DETERMINED BY THE ENGINEER.
2. PROPOSED KNEE WALL SHALL BE 1 FOOT WIDER THAN EXISTING AND BEGIN 4 INCHES BELOW EXISTING WEEPHOLES. PROPSED KNEE WALL SHALL EXTEND TO A VARYING DEPTH MEETING THE BEDROCK ENCAPSULATING THE EXISTING KNEE WALL.
3. REINFORCMENT STEEL SHALL BE PLACED CENTERED IN THE PROPOSED CONCRETE KNEE WALL POURS (INCIDENTAL TO CONCRETE MASONRY).
4. "L" SHAPED REINFORCMENT STEEL SHALL BE DOWELED 4 INCHES INTO THE EXISTING WALL TO SECURE PROPOSED KNEE WALL. DOWEL HOLES SHALL BE MADE CENETERED ON THE STONE FACE WITH REGARD TO THE SPACING DETAILED ON SHEET 9.

STRUCTURE DETAILS
RIC-42-1632
CARRYING US 42 OVER FLEMMING CREEK

SFN 7002971
DESIGN AGENCY
DESIGNER TPG | CHECKER XXX
REVIEWER XXX MM-DD-YY
PROJECT ID 100079
SUBSET 3 | TOTAL 3
SHEET P.10 | TOTAL 27

RIC-BH-FY2023

MODEL: Sheet 3 PAPERSIZE: 17x11 (in.) DATE: 1/19/2023 TIME: 2:39:18 PM USER: tgraham1
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Richland\100079\400-Engineering\Structures\SFN_7002971\Sheets\100079_SFN_7002971_SG001.dgn