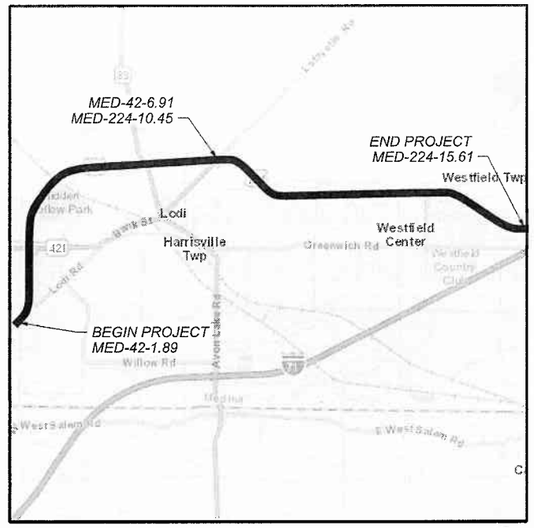
MED - US-US 42-01.89
210531 PID - 79761
Dist 3 11/18/2021




**LOCATION MAP**

*LATITUDE: 41°2'48" LONGITUDE: 81°59'38"*

*PORTION TO BE IMPROVED* ----------

# STATE OF OHIO
# DEPARTMENT OF TRANSPORTATION

# MED-42-1.89
# MED-224-(6.25)(10.45)

## VILLAGE OF WESTFIELD CENTER

## HARRISVILLE TOWNSHIP
## WESTFIELD TOWNSHIP

## MEDINA COUNTY

**INDEX OF SHEETS:**



***FEDERAL PROJECT NUMBER***

E170083

***RAILROAD INVOLVEMENT***

CSX, WHEELING & LAKE ERIE

***PROJECT DESCRIPTION***

*THIS PROJECT INCLUDES PAVEMENT REPAIRS, PLANING AND PAVING WITH ASPHALT CONCRETE, BRIDGE MAINTENANCE, GUARDRAIL REPAIR, AND REPLACING PAVEMENT MARKINGS.*

***EARTH DISTURBED AREAS***

| | |
|---|---|
| *PROJECT EARTH DISTURBED AREA:* | *N/A ACRES** |
| *ESTIMATED CONTRACTOR EARTH DISTURBED AREA:* | *N/A ACRES** |
| *NOTICE OF INTENT EARTH DISTURBED AREA:* | *N/A ACRES** |

** = MAINTENANCE PROJECT*

***LIMITED ACCESS***

*THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.*

***2019 SPECIFICATIONS***

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

***DESIGN DESIGNATIONS: SEE SHEET 2***

***DESIGN EXCEPTIONS***

*NONE REQUIRED*

***ADA DESIGN WAIVERS***

*NONE REQUIRED*

*PLANS PREPARED BY:*

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT THREE ENGINEERING

*I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 17-22.*

*APPROVED* _____ *DISTRICT DEPUTY DIRECTOR*
*DATE* 06/30/21

*APPROVED* _____ *DIRECTOR, DEPARTMENT OF TRANSPORTATION*
*DATE* 8/17/2021

**UNDERGROUND UTILITIES**
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

*ENGINEER'S SEAL:*

STATE OF OHIO
KARLA R. BOHMER
E-76834
REGISTERED PROFESSIONAL ENGINEER

*SIGNED:* Karla R. Bohmer
*DATE:* 6/30/21

**STANDARD CONSTRUCTION DRAWINGS**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AS-1-15 | 7/17/15 | MGS-1.1 | 1/19/18 | MT-95.30 | 7/19/19 | MT-101.60 | 1/17/20 | TC-41.20 | 10/18/13 | 800 | 7/16/21 |
| DBR-2-73 | 7/19/02 | MGS-2.1 | 1/19/18 | MT-95.40 | 1/17/20 | MT-101.70 | 1/17/20 | TC-42.20 | 10/18/13 | 807 | 7/17/20 |
| DBR-3-11 | 7/15/11 | MGS-3.1 | 1/19/18 | MT-95.45 | 1/17/20 | MT-101.75 | 1/17/20 | TC-52.10 | 10/18/13 | 808 | 1/18/19 |
| EXJ-4-87 | 1/19/18 | MGS-3.2 | 1/18/13 | MT-95.50 | 7/21/17 | MT-101.90 | 7/17/20 | TC-52.20 | 1/15/21 | 821 | 4/20/12 |
| | | MGS-4.2 | 7/19/13 | MT-96.11 | 4/16/21 | MT-102.20 | 4/19/19 | TC-61.30 | 7/19/19 | 830 | 7/19/19 |
| BP-2.1 | 7/17/15 | MGS-4.3 | 1/18/13 | MT-96.20 | 7/15/16 | MT-104.10 | 10/16/15 | TC-64.10 | 1/17/20 | 832 | 10/19/18 |
| BP-2.2 | 1/15/21 | MGS-6.1 | 1/19/18 | MT-96.26 | 1/18/19 | MT-105.10 | 1/17/20 | TC-65.10 | 1/17/14 | 848 | 1/15/21 |
| BP-2.5 | 7/19/13 | MGS-6.2 | 7/19/19 | MT-97.12 | 1/20/17 | | | TC-65.11 | 7/21/17 | 850 | 4/16/21 |
| BP-3.1 | 1/17/20 | | | MT-98.10 | 1/17/20 | | | TC-71.10 | 1/19/18 | 872 | 4/17/20 |
| BP-3.2 | 1/18/19 | RM-4.6 | 7/19/13 | MT-98.11 | 1/17/20 | | | TC-72.20 | 7/20/18 | 873 | 4/16/21 |
| BP-6.1 | 7/19/13 | | | MT-98.20 | 4/19/19 | | | TC-73.20 | 1/17/20 | 874 | 4/17/20 |
| BP-9.1 | 1/18/19 | | | MT-98.22 | 1/17/20 | | | | | 875 | 1/18/19 |
| | | | | MT-98.28 | 1/17/20 | | | | | **SPECIAL PROVISIONS** | |
| DM-4.1 | 7/17/20 | | | MT-98.29 | 1/17/20 | | | | | | |
| DM-4.3 | 1/15/16 | | | MT-99.20 | 4/19/19 | | | | | | |
| DM-4.4 | 1/15/16 | | | MT-99.50 | 1/17/20 | | | | | | |

**SUPPLEMENTAL SPECIFICATIONS**

TITLE SHEET

| | |
|---|---|
| DESIGN AGENCY | DISTRICT 3 |
| | ENGINEERING TEAM TWO |
| DESIGNER | ACM |
| REVIEWER | KRB 6-30-21 |
| PROJECT ID | 79761 |
| SHEET | 1 |
| TOTAL | 79 |

Contract Proposal available @ www.contracts.dot.state.oh.us

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 7/12/2021 TIME: 12:50:51 PM USER: jlowery
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\179761_GT001.dgn

**ITEM 614 – MAINTAINING TRAFFIC (GENERAL)**

2-LANE: MAINTAIN ONE 10' LANE OF TRAFFIC AT ALL TIMES.

4-LANE: MAINTAIN ONE 11' LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES.

SUBMIT, IN WRITING, A SCHEDULE OF OPERATIONS TO THE ENGINEER AND RECEIVE APPROVAL BEFORE WORK IS STARTED ON THE PROJECT. PRIOR TO BEGINNING WORK, COORDINATE THE MAINTENANCE OF TRAFFIC OPERATIONS WITH THE LOCAL STATE HIGHWAY PATROL.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION WITH THE LATEST REVISIONS. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**COORDINATION OF WORK BETWEEN CONTRACTORS**

THE CONTRACTOR SHOULD BE AWARE THAT THERE MAY BE OTHER WORK BEING PERFORMED BY A SEPARATE CONTRACT. MED-42-6.10 (PID 102624) IS A CULVERT REPAIR PROJECT AND IS SCHEDULED TO BEGIN WORK IN THE 2022 CONSTRUCTION SEASON AFTER AUGUST 31, 2022. COORDINATION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

**INTERIM COMPLETION DATE**

DUE TO THE ANTICIPATED CULVERT REPAIR WORK AT MED-42-6.10 TO BE PERFORMED BY A SEPARATE CONTRACT, THE CONTRACTOR SHALL PERFORM ALL PAVEMENT REPAIRS AND PAVING WORK, UP THROUGH THE SURFACE COURSE, ON EASTBOUND MED-42 SLM 1.89 TO SLM 6.91 WITH AN INTERIM COMPLETION DATE OF AUGUST 31, 2022. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE FEE OF $5,000 PER DAY.

**SEQUENCE OF PAVING WORK**

1. CLOSE RIGHT LANE. PLANE, PERFORM PAVEMENT REPAIRS AND PAVE OUTSIDE SHOULDER UP TO SURFACE COURSE.
2. CLOSE LEFT LANE. PLANE, PERFORM PAVEMENT REPAIRS AND PAVE LEFT LANE AND INSIDE SHOULDER UP TO INTERMEDIATE COURSE.
3. CLOSE RIGHT LANE. PLANE, PERFORM PAVEMENT REPAIRS AND PAVE RIGHT LANE UP TO SURFACE COURSE.
4. CLOSE LEFT LANE. PAVE LEFT LANE AND INSIDE SHOULDER WITH SURFACE COURSE.

**BUTT JOINTS**

DO NOT CUT BUTT JOINTS AND ALLOW THEM TO BE LEFT OPEN TO TRAFFIC. FILL THE BUTT JOINTS WITH A TEMPORARY ASPHALT CONCRETE WEDGE USING ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC IN ACCORDANCE WITH THE TAPER RATES SET FORTH IN SCD BP-3.1.

ERECT AND MAINTAIN CONSTRUCTION "BUMP" (W8-1-36) AND "ADVISORY SPEED" (W13-1-24) SIGNS DURING THE PERIOD THE BUTT JOINT IS LEFT OPEN. PAYMENT FOR THESE SIGNS WILL BE MADE UNDER THE LUMP SUM BID PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

**CONTRACTOR EQUIPMENT ACCESS AND WORK OPERATIONS**

IN ADDITION TO THE REQUIREMENTS OF SECTION 614 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS THE FOLLOWING SHALL APPLY:

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAVEL WHERE PRACTICAL. A FLAGGER SHALL BE USED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM.

THE CONTRACTOR SHALL ARRANGE CONSTRUCTION OPERATIONS SO AS TO PREVENT ANY INTERFERENCE TO THE CONTINUOUS FLOW OF TRAFFIC. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO THE CLOSED LANES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

**LANE CLOSURE DISINCENTIVE**

A LANE CLOSURE IS DEFINED AS ANY RESTRICTION OF A LANE OF TRAFFIC INCLUDING, BUT NOT LIMITED TO, SET UP AND TEAR DOWN OF TRAFFIC CONTROL ZONES. THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE IN THE AMOUNT OF $50 PER MINUTE THAT LANES ARE CLOSED TOR TRAFFIC DURING TIMES DESIGNATED AS "LANE CLOSURE NOT PERMITTED" AS STATED IN THESE PLANS AND ON THE ODOT PLCM WEB SITE AT http://plcm.dot.state.oh.us.

**MAINTENANCE OF TRAFFIC FOR MARKING PAVEMENT REPAIRS**

PROVIDE LANE CLOSURES AS PER THE MAINTENANCE OF TRAFFIC NOTES IN THESE PLANS A MINIMUM OF 24 HOURS PRIOR TO PERFORMING PAVEMENT REPAIRS TO ALLOW THE ENGINEER TO IDENTIFY AND MARK THE AREAS OF THE PAVEMENT IN NEED OF REPAIRS.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NEEDED TO PERFORM THE ABOVE LISTED WORK IS CONSIDERED INCIDENTAL TO MAINTAINING TRAFFIC ON THE PROJECT AND WILL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 – MAINTAINING TRAFFIC.

**LIMITATION ON WORK ZONE LENGTH**

LIMITATIONS ON WORK ZONE LENGTH SHALL BE IMPLEMENTED SO AS TO NOT CREATE CONGESTION AND UN-NEEDED STRAIN ON TRAFFIC AND TRAFFIC FACILITIES. THE MAXIMUM WORK ZONE LENGTH SHALL BE SIX (6) MILES, SUBJECT TO MODIFICATION BY THE ENGINEER. CONSECUTIVE WORK ZONES ARE ALLOWED WITH A MINIMUM DISTANCE OF TWO (2) MILES REQUIRED BETWEEN WORK ZONE AREAS.

**ITEM 614 – MAINTAINING TRAFFIC (LANE CLOSURE/REDUCTION REQUIRED)**

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN FIVE (5) CALENDAR DAYS, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

**NOTIFICATION TIME TABLE**

| ITEM | DURATION OF CLOSURE | NOTICE DUE TO PERMITS AND PIO* |
|---|---|---|
| RAMP AND/OR ROAD CLOSURES | 2 WEEKS OR GREATER | 21 CALENDAR DAYS |
| | 12 HOURS TO 2 WEEKS | 14 CALENDAR DAYS |
| | 12 HOURS OR LESS | 4 BUSINESS DAYS |
| LANE CLOSURES AND RESTRICTIONS | 2 WEEKS OR GREATER | 14 CALENDAR DAYS |
| | LESS THAN 2 WEEKS | 5 BUSINESS DAYS |
| START OF CONSTRUCTION AND TRAFFIC PATTERN CHANGES | N/A | 14 CALENDAR DAYS |

* - PRIOR TO CLOSURE DATE, UNLESS NOTED OTHERWISE

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

**ITEM 614 – MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)**

THIS REQUIREMENT SHALL ONLY APPLY TO THE PROPOSED RAMP DETOURS, SIGNALIZED CLOSURE AND CONCRETE REPAIRS AT THE LAKE ROAD INTERSECTION.

NO WORK SHALL BE PERFORMED, AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS — FOURTH OF JULY
NEW YEARS DAY — LABOR DAY
MEMORIAL DAY — THANKSGIVING

THE PERIOD OF TIME THAT LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

| DAY OF HOLIDAY OR EVENT | TIME ALL LANES MUST BE OPEN TO TRAFFIC |
|---|---|
| SUNDAY | 12:00N FRIDAY THROUGH 6:00 AM MONDAY |
| MONDAY | 12:00N FRIDAY THROUGH 6:00 AM TUESDAY |
| TUESDAY | 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY |
| WEDNESDAY | 12:00N TUESDAY THROUGH 6:00 AM THURSDAY |
| THURSDAY | 12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY |
| THANKSGIVING | 6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY |
| FRIDAY | 12:00N THURSDAY THROUGH 6:00 AM MONDAY |
| SATURDAY | 12:00N FRIDAY THROUGH 6:00 AM MONDAY |

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF $50 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

**ITEM 614 – MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)**

NOTICE OF CLOSURE SIGNS (W20-H14) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLAT SHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.] THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

| NOTICE OF CLOSURE SIGN TIME TABLE | | |
|---|---|---|
| ITEM | DURATION OF CLOSURE | SIGN DISPLAYED TO PUBLIC |
| RAMP AND ROAD CLOSURES | ≥ 2 WEEKS | 14 CALENDAR DAYS* |
| | > 12 HOURS & < 2 WEEKS | 7 CALENDAR DAYS* |
| | < 12 HOURS | 2 BUSINESS DAYS* |

* DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H14 SIGN LISTS THE NAME OF THE DEPARTMENT, i.e. "THE OHIO DEPT. OF TRANS."

**ITEM 614 – MAINTAINING TRAFFIC (ESTIMATED QUANTITIES)**

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC. INCLUDE THE COST FOR THE REMOVAL OF ALL MAINTENANCE OF TRAFFIC MATERIALS IN THE CONTRACT BID PRICE FOR EACH ITEM BELOW. REMOVE THE MATERIALS AT THE DIRECTION OF THE ENGINEER WHEN NO LONGER OPERATIONALLY NEEDED.

ITEM 614 – ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
01/NHS/PV – 40 CU YD
01/STR/PV – 10 CU YD

**ITEM 614 – MAINTAINING TRAFFIC (SIGNS AND BARRICADES)**

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS FOLLOWS OR AS PER THE ENGINEER.

**PLACEMENT OF ASPHALT CONCRETE**

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

**WORK ZONE MARKINGS AND SIGNS**

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11. MARKING QUANTITIES ARE AS LISTED ON THE RPM AND PAVEMENT MARKING SUBSUMMARY.

WORK ZONE MARKING SIGN: (W8-H12A-36) NO EDGE LINE — 6 EACH
WORK ZONE MARKING SIGN: (R4-1-24) DO NOT PASS — 4 EACH
WORK ZONE MARKING SIGN: (R4-2-24) PASS WITH CARE — 3 EACH
TOTAL: — 02/STR/PV - 13 EACH

**DETOUR SIGNING**

THE FOLLOWING QUANTITY IS INCLUDED FOR THE CONTRACTOR TO PROVIDE THE DETOUR SIGNING AS SHOWN AS PER 614.06(B):

ITEM 614 – DETOUR SIGNING — LUMP (01/NHS/PV), LUMP (03/NHS/BR), LUMP (04/STR/BR)

**ITEM 614 – REPLACEMENT SIGN**

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

THIS ITEM IS TO BE CONSIDERED INCIDENTAL TO MAINTAINING TRAFFIC ON THE PROJECT AND WILL BE PAID FOR UNDER THE LUMP SUM CONTRACT BID PRICE FOR ITEM 614 – MAINTAINING TRAFFIC. IT SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED SIGNS, HARDDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY: DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER: JLL
REVIEWER: SRO 7-6-21
PROJECT ID: 79761
SHEET 14 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)
MODEL: MOT NOTES 1 PAPERSIZE: 17X11 (in.) DATE: 10/27/2021 TIME: 3:09:38 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761400-Engineering\Roadway\Sheets\79761_GN001.dgn

| SHEET NUM. | | | | | PART. | | | | | | ITEM | ITEM EXT | GRAND TOTAL | UNIT | DESCRIPTION | SEE SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 51 | 52 | 53 | 56 | 01/NHS/PV | 02/STR/PV | 03/NHS/BR | 04/STR/BR | 05/SAF/OT | 06/SAF/OT | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | **TRAFFIC CONTROL** | |
| | | | 1,732 | | 1,396 | 336 | | | | | 621 | 00100 | 1,732 | EACH | RPM | |
| | | | 1,755 | | 1,414 | 341 | | | | | 621 | 54000 | 1,755 | EACH | RAISED PAVEMENT MARKER REMOVED | |
| 296 | | | | | 278 | 18 | | | | | 626 | 00110 | 296 | EACH | BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL | |
| | 16.52 | 19.4 | | | 34.8 | 1.12 | | | | | 642 | 30030 | 35.92 | MILE | REMOVAL OF PAVEMENT MARKING (EXISTING EDGE LINE) | |
| | 250 | 358 | | | 172 | 436 | | | | | 644 | 00500 | 608 | FT | STOP LINE | |
| | | | | | | | | | | | | | | | | |
| | 685 | 216 | | | 393 | 508 | | | | | 644 | 00700 | 901 | FT | TRANSVERSE/DIAGONAL LINE | |
| | 10 | 14 | | | 8 | 16 | | | | | 644 | 01300 | 24 | EACH | LANE ARROW | |
| | 6 | 2 | | | 6 | 2 | | | | | 644 | 01360 | 8 | EACH | WRONG WAY ARROW | |
| | 2 | | | | 2 | | | | | | 644 | 40000 | 2 | EACH | SPEED MEASUREMENT MARKING | |
| | | 113 | | | | 113 | | | | | 646 | 10400 | 113 | FT | STOP LINE | |
| | | | | | | | | | | | | | | | | |
| | | 24 | | | | 24 | | | | | 646 | 10800 | 24 | SF | ISLAND MARKING | |
| | | 25 | | | | 25 | | | | | 646 | 20300 | 25 | EACH | LANE ARROW | |
| | 0.67 | 1.38 | | | | | | | 2.05 | | 807 | 12010 | 2.05 | MILE | WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6" | |
| | 0.33 | 0.66 | | | | | | | 0.99 | | 807 | 12110 | 0.99 | MILE | WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6" | |
| | 0.04 | | | | | | | | 0.04 | | 807 | 12200 | 0.04 | MILE | WET REFLECTIVE EPOXY PAVEMENT MARKING, CENTER LINE | |
| | | | | | | | | | | | | | | | | |
| | | 2,552 | | | | | | | 2,552 | | 807 | 12300 | 2,552 | FT | WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 8" | |
| | 19.09 | 20.63 | | | | | | | 39.72 | | 807 | 14010 | 39.72 | MILE | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" | |
| | 8.11 | 9.8 | | | | | | | 17.91 | | 807 | 14110 | 17.91 | MILE | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6" | |
| | 0.85 | | | | | | | | 0.85 | | 807 | 14200 | 0.85 | MILE | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CENTER LINE | |
| | 1,918 | 3,448 | | | | | | | 5,366 | | 807 | 14300 | 5,366 | FT | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 8" | |
| | | | | | | | | | | | | | | | | |
| | | 1,455 | | | | | | | 1,455 | | 807 | 14410 | 1,455 | FT | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6" | |
| | 1.7 | | | | | | | | 1.7 | | 850 | 10000 | 1.7 | MILE | GROOVING FOR 4" RECESSED PAVEMENT MARKING, (ASPHALT) | |
| | 27.2 | 30.43 | | | | | | | 57.63 | | 850 | 10010 | 57.63 | MILE | GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) | |
| | | 1,455 | | | | | | | 1,455 | | 850 | 10110 | 1,455 | FT | GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) | |
| | 1,918 | 3,448 | | | | | | | 5,366 | | 850 | 10120 | 5,366 | FT | GROOVING FOR 8" RECESSED PAVEMENT MARKING, (ASPHALT) | |
| | | | | | | | | | | | | | | | | |
| | 0.08 | | | | | | | | 0.08 | | 850 | 20000 | 0.08 | MILE | GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE) | |
| | 1 | 2.04 | | | | | | | 3.04 | | 850 | 20010 | 3.04 | MILE | GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE) | |
| | | 2,552 | | | | | | | 2,552 | | 850 | 20120 | 2,552 | FT | GROOVING FOR 8" RECESSED PAVEMENT MARKING, (CONCRETE) | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-42-2.61)** | |
| | | | | 32 | | | | 32 | | | 512 | 10300 | 32 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN | |
| | | | | 5 | | | | 5 | | | 516 | 45305 | 5 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN | 55 |
| | | | | LS | | | | LS | | | 516 | 47001 | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN | 55 |
| | | | | 300 | | | | 300 | | | 517 | 75600 | 300 | FT | DEEP BEAM BRIDGE RETROFIT RAILING | |
| | | | | 300 | | | | 300 | | | 517 | 76300 | 300 | FT | RAILING, MISC.:DEEP BEAM RAILING PANELS | 55 |
| | | | | | | | | | | | | | | | | |
| | | | | 709 | | | | 709 | | | 848 | 10001 | 709 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2.25 INCH THICK) | 55 |
| | | | | 709 | | | | 709 | | | 848 | 20000 | 709 | SY | SURFACE PREPARATION USING HYDRODEMOLITION | |
| | | | | 22 | | | | 22 | | | 848 | 30001 | 22 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN | 55 |
| | | | | 40 | | | | 40 | | | 848 | 50000 | 40 | SY | HAND CHIPPING | |
| | | | | LS | | | | LS | | | 848 | 50100 | LS | | TEST SLAB | |
| | | | | | | | | | | | | | | | | |
| | | | | 709 | | | | 709 | | | 848 | 50320 | 709 | SY | EXISTING CONCRETE OVERLAY REMOVED (2 INCH NOMINAL THICKNESS) | |
| | | | | 398 | | | | 398 | | | 848 | 50340 | 398 | SY | REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-42-3.10 L)** | |
| | | | | 52 | | | 52 | | | | 202 | 32000 | 52 | FT | CURB REMOVED | |
| | | | | 100 | | | 100 | | | | 202 | 32600 | 100 | FT | GUTTER REMOVED | |
| | | | | 256 | | | 256 | | | | 202 | 98200 | 256 | FT | REMOVAL MISC.: DECK OVERHANG | 54 |
| | | | | 66 | | | 66 | | | | 202 | 98200 | 66 | FT | REMOVAL MISC.:JOINT SEALER | 54 |
| | | | | 829 | | | 829 | | | | 509 | 10001 | 829 | LB | EPOXY COATED REINFORCING STEEL, AS PER PLAN | 55 |
| | | | | | | | | | | | | | | | | |
| | | | | 100 | | | 100 | | | | 509 | 20001 | 100 | LB | REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN | 54 |
| | | | | 256 | | | 256 | | | | 511 | 81100 | 256 | FT | CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG | 55 |
| | | | | 90 | | | 90 | | | | 512 | 10100 | 90 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | |
| | | | | 28 | | | 28 | | | | 512 | 10300 | 28 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN | |
| | | | | 66 | | | 66 | | | | 516 | 31000 | 66 | FT | JOINT SEALER | |
| | | | | | | | | | | | | | | | | |
| | | | | 4 | | | 4 | | | | 516 | 45305 | 4 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN | 55 |
| | | | | LS | | | LS | | | | 516 | 47001 | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN | 55 |
| | | | | 33 | | | 33 | | | | 519 | 11100 | 33 | SF | PATCHING CONCRETE STRUCTURE | |
| | | | | 12 | | | 12 | | | | SPECIAL | 51912510 | 12 | SY | PATCHING CONCRETE BRIDGE DECK, TYPE B | 55 |

GENERAL SUMMARY

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER JLL

REVIEWER KRB 7-7-21

PROJECT ID 79761

SHEET 24 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

| SHEET NUM. | | | | | | PART. | | | | | | ITEM | ITEM EXT | GRAND TOTAL | UNIT | DESCRIPTION | SEE SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 32 | 51 | 52 | 53 | 56 | 01/NHS/PV | 02/STR/PV | 03/NHS/BR | 04/STR/BR | 05/SAF/OT | 06/SAF/OT | | | | | | |
| | | | | | 25 | | | 25 | | | | 601 | 27000 | 25 | CY | DUMPED ROCK FILL, TYPE C | |
| | | | | | 474 | | | 474 | | | | 848 | 10001 | 474 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK) | 55 |
| | | | | | 474 | | | 474 | | | | 848 | 20000 | 474 | SY | SURFACE PREPARATION USING HYDRODEMOLITION | |
| | | | | | 9 | | | 9 | | | | 848 | 30001 | 9 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN | 55 |
| | | | | | 27 | | | 27 | | | | 848 | 50000 | 27 | SY | HAND CHIPPING | |
| | | | | | | | | | | | | | | | | | |
| | | | | | LS | | | LS | | | | 848 | 50100 | LS | | TEST SLAB | |
| | | | | | 2 | | | 2 | | | | 848 | 50200 | 2 | CY | FULL-DEPTH REPAIR | |
| | | | | | 474 | | | 474 | | | | 848 | 50320 | 474 | SY | EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS) | |
| | | | | | 266 | | | 266 | | | | 848 | 50340 | 266 | SY | REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY | |
| | | | | | 240 | | | 240 | | | | SPECIAL | 51900100 | 240 | SF | COMPOSITE FIBER WRAP SYSTEM | 55 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-42-3.10 R)** | |
| | | | | | 52 | | | 52 | | | | 202 | 32000 | 52 | FT | CURB REMOVED | |
| | | | | | 100 | | | 100 | | | | 202 | 32600 | 100 | FT | GUTTER REMOVED | |
| | | | | | 256 | | | 256 | | | | 202 | 98200 | 256 | FT | REMOVAL MISC.: DECK OVERHANG | 54 |
| | | | | | 90 | | | 90 | | | | 202 | 98200 | 90 | FT | REMOVAL MISC.:JOINT SEALER | 54 |
| | | | | | 829 | | | 829 | | | | 509 | 10001 | 829 | LB | EPOXY COATED REINFORCING STEEL, AS PER PLAN | 55 |
| | | | | | | | | | | | | | | | | | |
| | | | | | 100 | | | 100 | | | | 509 | 20001 | 100 | LB | REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN | 54 |
| | | | | | 256 | | | 256 | | | | 511 | 81100 | 256 | FT | CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG | 55 |
| | | | | | 90 | | | 90 | | | | 512 | 10100 | 90 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | |
| | | | | | 28 | | | 28 | | | | 512 | 10300 | 28 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN | |
| | | | | | 90 | | | 90 | | | | 516 | 31000 | 90 | FT | JOINT SEALER | |
| | | | | | | | | | | | | | | | | | |
| | | | | | 3 | | | 3 | | | | 516 | 45305 | 3 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN | 55 |
| | | | | | LS | | | LS | | | | 516 | 47001 | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN | 55 |
| | | | | | 38 | | | 38 | | | | 519 | 11100 | 38 | SF | PATCHING CONCRETE STRUCTURE | |
| | | | | | 18 | | | 18 | | | | 601 | 21060 | 18 | SY | TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT | |
| | | | | | 25 | | | 25 | | | | 601 | 27000 | 25 | CY | DUMPED ROCK FILL, TYPE C | |
| | | | | | | | | | | | | | | | | | |
| | | | | | 644 | | | 644 | | | | 848 | 10001 | 644 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK) | 55 |
| | | | | | 644 | | | 644 | | | | 848 | 20000 | 644 | SY | SURFACE PREPARATION USING HYDRODEMOLITION | |
| | | | | | 13 | | | 13 | | | | 848 | 30001 | 13 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN | 55 |
| | | | | | 36 | | | 36 | | | | 848 | 50000 | 36 | SY | HAND CHIPPING | |
| | | | | | LS | | | LS | | | | 848 | 50100 | LS | | TEST SLAB | |
| | | | | | 4 | | | 4 | | | | 848 | 50200 | 4 | CY | FULL-DEPTH REPAIR | |
| | | | | | 644 | | | 644 | | | | 848 | 50320 | 644 | SY | EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS) | |
| | | | | | 361 | | | 361 | | | | 848 | 50340 | 361 | SY | REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY | |
| | | | | | 240 | | | 240 | | | | SPECIAL | 51900100 | 240 | SF | COMPOSITE FIBER WRAP SYSTEM | 55 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-42-4.60 L)** | |
| | | | | | 1 | | | 1 | | | | 202 | 11301 | 1 | CY | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | 54 |
| | | | | | 94 | | | 94 | | | | 202 | 98200 | 94 | FT | REMOVAL MISC.:JOINT SEALER | 54 |
| | | | | | 1 | | | 1 | | | | 511 | 46010 | 1 | CY | CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING | |
| | | | | | 26 | | | 26 | | | | 512 | 10300 | 26 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN | |
| | | | | | 94 | | | 94 | | | | 516 | 31000 | 94 | FT | JOINT SEALER | |
| | | | | | | | | | | | | | | | | | |
| | | | | | 238 | | | 238 | | | | 517 | 75600 | 238 | FT | DEEP BEAM BRIDGE RETROFIT RAILING | |
| | | | | | 238 | | | 238 | | | | 517 | 76300 | 238 | FT | RAILING, MISC.:DEEP BEAM RAILING PANELS | 55 |
| | | | | | 6 | | | 6 | | | | 519 | 11100 | 6 | SF | PATCHING CONCRETE STRUCTURE | |
| | | | | | 2 | | | 2 | | | | SPECIAL | 51912510 | 2 | SY | PATCHING CONCRETE BRIDGE DECK, TYPE B | 55 |
| | | | | | 574 | | | 574 | | | | 848 | 10001 | 574 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK) | 55 |
| | | | | | | | | | | | | | | | | | |
| | | | | | 574 | | | 574 | | | | 848 | 20000 | 574 | SY | SURFACE PREPARATION USING HYDRODEMOLITION | |
| | | | | | 11 | | | 11 | | | | 848 | 30001 | 11 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN | 55 |
| | | | | | 32 | | | 32 | | | | 848 | 50000 | 32 | SY | HAND CHIPPING | |
| | | | | | LS | | | LS | | | | 848 | 50100 | LS | | TEST SLAB | |
| | | | | | 12 | | | 12 | | | | 848 | 50200 | 12 | CY | FULL-DEPTH REPAIR | |
| | | | | | | | | | | | | | | | | | |
| | | | | | 574 | | | 574 | | | | 848 | 50320 | 574 | SY | EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS) | |
| | | | | | 322 | | | 322 | | | | 848 | 50340 | 322 | SY | REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY | |

GENERAL SUMMARY

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM3 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 4:05:56 PM USER: kslay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_GG001.dgn

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER JLL
REVIEWER KRB 7-7-21
PROJECT ID 79761
SHEET 25 TOTAL 79

| SHEET NUM. | | | | | | PART. | | | | | | ITEM | ITEM EXT | GRAND TOTAL | UNIT | DESCRIPTION | SEE SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 32 | 51 | 52 | 53 | 56 | 01/NHS/PV | 02/STR/PV | 03/NHS/BR | 04/STR/BR | 05/SAF/OT | 06/SAF/OT | | | | | | |
| | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-42-4.60 R)** | |
| | | | | | 1 | | | 1 | | | | 202 | 11301 | 1 | CY | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | 54 |
| | | | | | 94 | | | 94 | | | | 202 | 98200 | 94 | FT | REMOVAL MISC.:JOINT SEALER | 54 |
| | | | | | ~~1~~ | | | ~~1~~ | | | | ~~511~~ | ~~46010~~ | ~~1~~ | ~~CY~~ | ~~CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING~~ | |
| | | | | | ~~26~~ | | | ~~26~~ | | | | ~~512~~ | ~~10300~~ | ~~26~~ | ~~SY~~ | ~~SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN~~ | |
| | | | | | ~~94~~ | | | ~~94~~ | | | | ~~516~~ | ~~31000~~ | ~~94~~ | ~~FT~~ | ~~JOINT SEALER~~ | |
| | | | | | 238 | | | 238 | | | | 517 | 75600 | 238 | FT | DEEP BEAM BRIDGE RETROFIT RAILING | |
| | | | | | 238 | | | 238 | | | | 517 | 76300 | 238 | FT | RAILING, MISC.:DEEP BEAM RAILING PANELS | 55 |
| | | | | | ~~24~~ | | | ~~24~~ | | | | ~~519~~ | ~~11100~~ | ~~24~~ | ~~SF~~ | ~~PATCHING CONCRETE STRUCTURE~~ | |
| | | | | | ~~4~~ | | | ~~4~~ | | | | ~~SPECIAL~~ | ~~51912510~~ | ~~4~~ | ~~SY~~ | ~~PATCHING CONCRETE BRIDGE DECK, TYPE B~~ | ~~55~~ |
| | | | | | 574 | | | 574 | | | | 848 | 10001 | 574 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.5 INCH THICK) | 55 |
| | | | | | 574 | | | 574 | | | | 848 | 20000 | 574 | SY | SURFACE PREPARATION USING HYDRODEMOLITION | |
| | | | | | 11 | | | 11 | | | | 848 | 30001 | 11 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN | 55 |
| | | | | | 32 | | | 32 | | | | 848 | 50000 | 32 | SY | HAND CHIPPING | |
| | | | | | LS | | | LS | | | | 848 | 50100 | LS | | TEST SLAB | |
| | | | | | 8 | | | 8 | | | | 848 | 50200 | 8 | CY | FULL-DEPTH REPAIR | |
| | | | | | ~~574~~ | | | ~~574~~ | | | | ~~848~~ | ~~50320~~ | ~~574~~ | ~~SY~~ | ~~EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS)~~ | |
| | | | | | ~~322~~ | | | ~~322~~ | | | | ~~848~~ | ~~50340~~ | ~~322~~ | ~~SY~~ | ~~REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY~~ | |
| | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-42-5.39 L)** | |
| | | | | | 80 | | | 80 | | | | 202 | 98200 | 80 | FT | REMOVAL MISC.:JOINT SEALER | 54 |
| | | | | | 800 | | | 800 | | | | 512 | 10300 | 800 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN | |
| | | | | | 80 | | | 80 | | | | 516 | 31000 | 80 | FT | JOINT SEALER | |
| | | | | | 425 | | | 425 | | | | 517 | 75600 | 425 | FT | DEEP BEAM BRIDGE RETROFIT RAILING | |
| | | | | | 425 | | | 425 | | | | 517 | 76300 | 425 | FT | RAILING, MISC.:DEEP BEAM RAILING PANELS | 55 |
| | | | | | ~~28~~ | | | ~~28~~ | | | | ~~519~~ | ~~11100~~ | ~~28~~ | ~~SF~~ | ~~PATCHING CONCRETE STRUCTURE~~ | |
| | | | | | ~~18~~ | | | ~~18~~ | | | | ~~SPECIAL~~ | ~~51912510~~ | ~~18~~ | ~~SY~~ | ~~PATCHING CONCRETE BRIDGE DECK, TYPE B~~ | ~~55~~ |
| | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-42-5.39 R)** | |
| | | | | | 80 | | | 80 | | | | 202 | 98200 | 80 | FT | REMOVAL MISC.:JOINT SEALER | 54 |
| | | | | | 800 | | | 800 | | | | 512 | 10300 | 800 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN | |
| | | | | | 80 | | | 80 | | | | 516 | 31000 | 80 | FT | JOINT SEALER | |
| | | | | | 425 | | | 425 | | | | 517 | 75600 | 425 | FT | DEEP BEAM BRIDGE RETROFIT RAILING | |
| | | | | | 425 | | | 425 | | | | 517 | 76300 | 425 | FT | RAILING, MISC.:DEEP BEAM RAILING PANELS | 55 |
| | | | | | ~~10~~ | | | ~~10~~ | | | | ~~519~~ | ~~11100~~ | ~~10~~ | ~~SF~~ | ~~PATCHING CONCRETE STRUCTURE~~ | |
| | | | | | ~~9~~ | | | ~~9~~ | | | | ~~SPECIAL~~ | ~~51912510~~ | ~~9~~ | ~~SY~~ | ~~PATCHING CONCRETE BRIDGE DECK, TYPE B~~ | ~~55~~ |
| | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-42-5.89 L)** | |
| | | | | | 94 | | | 94 | | | | 202 | 98200 | 94 | FT | REMOVAL MISC.:JOINT SEALER | 54 |
| | | | | | 605 | | | 605 | | | | 512 | 10300 | 605 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN | |
| | | | | | 94 | | | 94 | | | | 516 | 31000 | 94 | FT | JOINT SEALER | |
| | | | | | 2 | | | 2 | | | | 516 | 45305 | 2 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN | 55 |
| | | | | | LS | | | LS | | | | 516 | 47001 | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN | 55 |
| | | | | | 250 | | | 250 | | | | 517 | 75600 | 250 | FT | DEEP BEAM BRIDGE RETROFIT RAILING | |
| | | | | | 250 | | | 250 | | | | 517 | 76300 | 250 | FT | RAILING, MISC.:DEEP BEAM RAILING PANELS | 55 |
| | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-42-5.89 R)** | |
| | | | | | 141 | | | 141 | | | | 202 | 98200 | 141 | FT | REMOVAL MISC.:JOINT SEALER | 54 |
| | | | | | 605 | | | 605 | | | | 512 | 10300 | 605 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN | |
| | | | | | 47 | | | 47 | | | | 516 | 10000 | 47 | FT | PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL | |
| | | | | | 94 | | | 94 | | | | 516 | 31000 | 94 | FT | JOINT SEALER | |
| | | | | | 2 | | | 2 | | | | 516 | 45305 | 2 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN | 55 |
| | | | | | LS | | | LS | | | | 516 | 47001 | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN | 55 |
| | | | | | 250 | | | 250 | | | | 517 | 75600 | 250 | FT | DEEP BEAM BRIDGE RETROFIT RAILING | |
| | | | | | 250 | | | 250 | | | | 517 | 76300 | 250 | FT | RAILING, MISC.:DEEP BEAM RAILING PANELS | 55 |
| | | | | | 3 | | | 3 | | | | 519 | 11100 | 3 | SF | PATCHING CONCRETE STRUCTURE | |

GENERAL SUMMARY

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM4 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 4:16:23 PM USER: ksalley
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_GG001.dgn

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 26 TOTAL 79

| SHEET NUM. | | | | | | PART. | | | | | | ITEM | ITEM EXT | GRAND TOTAL | UNIT | DESCRIPTION | SEE SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 32 | 51 | 52 | 53 | 56 | 01/NHS/PV | 02/STR/PV | 03/NHS/BR | 04/STR/BR | 05/SAF/OT | 06/SAF/OT | | | | | | |
| | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-42-7.14)** | |
| | | | | | 12 | | | | 12 | | | 202 | 11301 | 12 | CY | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | 54 |
| | | | | | 7 | | | | 7 | | | 511 | 21521 | 7 | CY | CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION) | 55 |
| | | | | | 5 | | | | 5 | | | 511 | 45711 | 5 | CY | CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION) | 55 |
| | | | | | 8 | | | | 8 | | | 512 | 10100 | 8 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | |
| | | | | | 10 | | | | 10 | | | 513 | 21000 | 10 | EACH | TRIMMING OF BEAM END | |
| | | | | | 104 | | | | 104 | | | 516 | 11211 | 104 | FT | STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN | 55 |
| | | | | | 72 | | | | 72 | | | 516 | 31000 | 72 | FT | JOINT SEALER | |
| | | | | | 4 | | | | 4 | | | 516 | 45305 | 4 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN | 55 |
| | | | | | LS | | | | LS | | | 516 | 47001 | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN | 55 |
| | | | | | 141 | | | | 141 | | | 519 | 11100 | 141 | SF | PATCHING CONCRETE STRUCTURE | |
| | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-83-4.36)** | |
| | | | | | 76 | | | 76 | | | | 202 | 32600 | 76 | FT | GUTTER REMOVED | |
| | | | | | 12 | | | 12 | | | | 519 | 11100 | 12 | SF | PATCHING CONCRETE STRUCTURE | |
| | | | | | 21 | | | 21 | | | | 601 | 27000 | 21 | CY | DUMPED ROCK FILL, TYPE C | |
| | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-224-12.76 L)** | |
| | | | | | 80 | | | 80 | | | | 202 | 98200 | 80 | FT | REMOVAL MISC.:JOINT SEALER | 54 |
| | | | | | 28 | | | 28 | | | | 512 | 10300 | 28 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN | |
| | | | | | 80 | | | 80 | | | | 516 | 31000 | 80 | FT | JOINT SEALER | |
| | | | | | 1 | | | 1 | | | | 516 | 45305 | 1 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN | 55 |
| | | | | | LS | | | LS | | | | 516 | 47001 | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN | 55 |
| | | | | | 262.5 | | | 262.5 | | | | 517 | 75600 | 262.5 | FT | DEEP BEAM BRIDGE RETROFIT RAILING | |
| | | | | | 262.5 | | | 262.5 | | | | 517 | 76300 | 262.5 | FT | RAILING, MISC.:DEEP BEAM RAILING PANELS | 55 |
| | | | | | 21 | | | 21 | | | | 519 | 11100 | 21 | SF | PATCHING CONCRETE STRUCTURE | |
| | | | | | 3 | | | 3 | | | | SPECIAL | 51912510 | 3 | SY | PATCHING CONCRETE BRIDGE DECK, TYPE B | 55 |
| | | | | | 558 | | | 558 | | | | 848 | 10001 | 558 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK) | 55 |
| | | | | | 558 | | | 558 | | | | 848 | 20000 | 558 | SY | SURFACE PREPARATION USING HYDRODEMOLITION | |
| | | | | | 17 | | | 17 | | | | 848 | 30001 | 17 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN | 55 |
| | | | | | 31 | | | 31 | | | | 848 | 50000 | 31 | SY | HAND CHIPPING | |
| | | | | | LS | | | LS | | | | 848 | 50100 | LS | | TEST SLAB | |
| | | | | | 2 | | | 2 | | | | 848 | 50200 | 2 | CY | FULL-DEPTH REPAIR | |
| | | | | | 558 | | | 558 | | | | 848 | 50320 | 558 | SY | EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS) | |
| | | | | | 313 | | | 313 | | | | 848 | 50340 | 313 | SY | REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY | |
| | | | | | | | | | | | | | | | | **STRUCTURE REPAIR (MED-224-12.76 R)** | |
| | | | | | 8 | | | 8 | | | | 202 | 11301 | 8 | CY | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | 54 |
| | | | | | 88 | | | 88 | | | | 202 | 98200 | 88 | FT | REMOVAL MISC.:JOINT SEALER | 54 |
| | | | | | 2 | | | 2 | | | | 511 | 21521 | 2 | CY | CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION) | 55 |
| | | | | | 3 | | | 3 | | | | 511 | 45711 | 3 | CY | CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION) | 55 |
| | | | | | 3 | | | 3 | | | | 511 | 46010 | 3 | CY | CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING | |
| | | | | | 40 | | | 40 | | | | 512 | 10300 | 40 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN | |
| | | | | | 44 | | | 44 | | | | 516 | 11211 | 44 | FT | STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN | 55 |
| | | | | | 88 | | | 88 | | | | 516 | 31000 | 88 | FT | JOINT SEALER | |
| | | | | | 5 | | | 5 | | | | 516 | 45305 | 5 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN | 55 |
| | | | | | LS | | | LS | | | | 516 | 47001 | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN | 55 |
| | | | | | 262.5 | | | 262.5 | | | | 517 | 75600 | 262.5 | FT | DEEP BEAM BRIDGE RETROFIT RAILING | |
| | | | | | 262.5 | | | 262.5 | | | | 517 | 76300 | 262.5 | FT | RAILING, MISC.:DEEP BEAM RAILING PANELS | 55 |
| | | | | | 7 | | | 7 | | | | SPECIAL | 51912510 | 7 | SY | PATCHING CONCRETE BRIDGE DECK, TYPE B | 55 |
| | | | | | 858 | | | 858 | | | | 848 | 10001 | 858 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK) | 55 |
| | | | | | 858 | | | 858 | | | | 848 | 20000 | 858 | SY | SURFACE PREPARATION USING HYDRODEMOLITION | |
| | | | | | 27 | | | 27 | | | | 848 | 30001 | 27 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN | 55 |
| | | | | | 48 | | | 48 | | | | 848 | 50000 | 48 | SY | HAND CHIPPING | |
| | | | | | LS | | | LS | | | | 848 | 50100 | LS | | TEST SLAB | |
| | | | | | 5 | | | 5 | | | | 848 | 50200 | 5 | CY | FULL-DEPTH REPAIR | |
| | | | | | 858 | | | 858 | | | | 848 | 50320 | 858 | SY | EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS) | |
| | | | | | 481 | | | 481 | | | | 848 | 50340 | 481 | SY | REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY | |

GENERAL SUMMARY

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM5 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 4:20:49 PM USER: ksalley
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400=Engineering\Roadway\Sheets\79761_GG001.dgn

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 27 TOTAL 79

| SHEET NUM. | | | | | | PART. | | | | | | ITEM | ITEM EXT | GRAND TOTAL | UNIT | DESCRIPTION | SEE SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15 | 16 | 51 | 52 | 61 | 01/NHS/PV | 02/STR/PV | 03/NHS/BR | 04/STR/BR | 05/SAF/OT | 06/SAF/OT | | | | | | |
| | | | | | | | | | | | | | | | | **MAINTENANCE OF TRAFFIC** | |
| | | 500 | | | | 500 | | | | | | 614 | 11110 | 500 | HOUR | LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE | |
| | 12 | | | | 2 | | | 12 | 2 | | | 614 | 12380 | 14 | EACH | WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) | |
| LS | | | | | | LS | | LS | LS | | | 614 | 12420 | LS | | DETOUR SIGNING | |
| 13 | | | | | | | 13 | | | | | 614 | 12460 | 13 | EACH | WORK ZONE MARKING SIGN | |
| 50 | | | | | | 40 | 10 | | | | | 614 | 13000 | 50 | CY | ASPHALT CONCRETE FOR MAINTAINING TRAFFIC | |
| | | | | | | | | | | | | | | | | | |
| | 48 | | | | 11 | | | 48 | 11 | | | 614 | 13310 | 59 | EACH | BARRIER REFLECTOR, TYPE 1 (ONE-WAY) | |
| | 48 | | | | 11 | | | 48 | 11 | | | 614 | 13350 | 59 | EACH | OBJECT MARKER, ONE WAY | |
| | 36 | | | | | 36 | | | | | | 614 | 18601 | 36 | SNMT | PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN | 15 |
| | | | 25.32 | 29.91 | | 23.7 | 31.53 | | | | | 614 | 20560 | 55.23 | MILE | WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT | |
| | | | | | 0.19 | | | | 0.19 | | | 614 | 21200 | 0.19 | MILE | WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I | |
| | | | | | | | | | | | | | | | | | |
| | | | 2.67 | | | | 2.67 | | | | | 614 | 21550 | 2.67 | MILE | WORK ZONE CENTER LINE, CLASS III, 642 PAINT | |
| | | | | | 0.42 | | | | 0.42 | | | 614 | 22210 | 0.42 | MILE | WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I | |
| | | | 53.94 | 62.91 | | 51.06 | 65.79 | | | | | 614 | 22360 | 116.85 | MILE | WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT | |
| | | | 5,754 | 11,544 | | 5,637 | 11,661 | | | | | 614 | 23680 | 17,298 | FT | WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT | |
| | | | | | 24 | | | | 24 | | | 614 | 26400 | 24 | FT | WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I | |
| | | | | | | | | | | | | | | | | | |
| | | | 237 | 475 | | 192 | 520 | | | | | 614 | 26610 | 712 | FT | WORK ZONE STOP LINE, CLASS III, 642 PAINT | |
| | 2,280 | | | | 550 | | | 2,280 | 550 | | | 622 | 41100 | 2,830 | FT | PORTABLE BARRIER, UNANCHORED | |
| | 132 | | | | | 132 | | | | | | 808 | 18700 | 132 | SNMT | DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | **INCIDENTALS** | |
| | | | | | | LS | LS | LS | LS | LS | LS | 614 | 11000 | LS | | MAINTAINING TRAFFIC | |
| | | | | | | 8 | 1 | | | | | 619 | 16020 | 9 | MNTH | FIELD OFFICE, TYPE C | |
| | | | | | | LS | LS | LS | LS | LS | LS | 623 | 10000 | LS | | CONSTRUCTION LAYOUT STAKES AND SURVEYING | |
| | | | | | | LS | LS | LS | LS | LS | LS | 624 | 10000 | LS | | MOBILIZATION | |

GENERAL SUMMARY

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM6 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 4:24:33 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_GG001.dgn

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 28 | TOTAL 79

**STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS**

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

AS-1-15 (REVISED 7/7/2015)
DBR-2-73 (REVISED 7/19/2002)
DBR-3-11 (REVISED 7/15/2011)
EXJ-4-87 (REVISED 1/19/2018)

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

800 DATED 4/16/2021
832 DATED 10/19/2018
848 DATED 1/15/2021

**DESIGN SPECIFICATIONS**

DESIGN SPECIFICATIONS: THIS STRUCTURE WORK CONFORMS TO THE 8TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2017 AND THE ODOT BRIDGE DESIGN MANUAL.

**EXISTING PLANS**

THE FOLLOWING EXISTING PLANS MAY BE INSPECTED IN THE ODOT DISTRICT 3 OFFICE IN ASHLAND, OHIO.

| STRUCTURE | PLAN NAME | DATE |
|---|---|---|
| MED-42-2.61 | MED-42-1.89/MED-224-10.45<br>MED-42-1.89 | 1989<br>1956 |
| MED-42-3.10 L/R | | |
| MED-42-4.60 L/R | | |
| MED-42-5.39 L/R | | |
| MED-42-5.89 L/R | | |
| MED-42-7.14 | | |
| MED-83-4.36 | | |
| MED-224-12.76 L/R | MED-42-1.89/MED-224-10.45<br>MED-224-10.67 | 1989<br>1962 |

**DECK PROTECTION METHOD**

MICRO SILICA MODIFIED CONCRETE OVERLAY
SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN

**UTILITIES**

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

**EXISTING STRUCTURE VERIFICATION**

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

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

**IN-STREAM WORK RESTRICTION**

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID CONSTRUCTION IN AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING STREAMS OR WETLANDS. ANY MATERIAL THAT DOES FALL INTO STREAMS OR WETLANDS SHALL BE REMOVED AS SOON AS POSSIBLE.

ALL PROJECTS INVOLVING JURISDICTIONAL WATERS OF THE UNITED STATES (STREAMS, RIVERS, NON-ISOLATED WETLANDS) AND/OR ISOLATED WETLANDS ARE SUBJECT TO REGULATION UNDER SECTIONS 404 AND 401 OF THE CLEAN WATER ACT, AND POSSIBLY OHIO EPA ISOLATED WETLAND LAW. IT IS ANTICIPATED THAT NO IN-STREAM WORK, OR WORK UNDER THE STREAM'S ORDINARY HIGH WATER MARK (OHWM) WILL BE NEEDED. THEREFORE NO WATERWAY PERMITS HAVE BEEN GRANTED AND NO IN-STREAM WORK IS ALLOWED.

SHOULD WORK (EITHER TEMPORARY OR PERMANENT) IN THE STREAM BE NEEDED; IT WILL REQUIRE A PERMIT AND AUTHORIZATION BY THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE). THE CONTRACTOR SHALL NOT UTILIZE FILLS BELOW OHWM UNTIL SUCH ACTIVITY IS AUTHORIZED BY THE USACE. DETAILS OF THIS REQUIREMENT ARE DESCRIBED IN ODOT'S SUPPLEMENTAL SPECIFICATION 832.09.

USACE DEFINITION OF OHWM – THE ORDINARY HIGH WATER MARK IS THE LINE ON THE SHORES ESTABLISHED BY THE FLUCTUATIONS OF WATER AND INDICATED BY PHYSICAL CHARACTERISTICS SUCH AS A CLEAR, NATURAL LINE IMPRESSED ON THE BANKS; SHELVING; CHANGES IN THE CHARACTER OF THE SOIL; DESTRUCTION OF TERRESTRIAL VEGETATION; THE PRESENCE OF LITTER AND DEBRIS; OR THE APPROPROATE MEANS THAT CONSIDER THE CHARACTERISTICS OF THE SURROUNDING AREAS.

**EXISTING REINFORCING STEEL**

EXISTING REINFORCING STEEL, WHEN SHOWN, IS DETAILED FOR REPRESENTATION PURPOSES ONLY. IT IS NOT DETAILED TO SCALE. WHEN PERFORMING ALL REPAIR OR PATCHING WORK, TAKE UTMOST CARE TO NOT DAMAGE THE EXISTING REINFORCING STEEL. SHOULD THE EXISTING REINFORCING STEEL BE DAMAGED IN THE COURSE OF PERFORMING THE WORK, REPLACE THE DAMAGED STEEL AT NO COST TO THE DEPARTMENT. COST FOR THE ABOVE WORK WILL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE REPAIR OR PATCHING ITEM.

**PLACING ASPHALT CONCRETE FEATHERING ON APPROACHES TO BRIDGES**

SPECIAL CARE SHALL BE TAKEN WHEN PLACING THE ASPHALT CONCRETE BUTT JOINT TO CREATE A SMOOTH TRANSITION FROM THE EXISTING APPROACH PAVEMENT TO THE BRIDGE DECK OR APPROACH SLAB. THE CONTRACTOR'S ATTENTION IS CALLED TO STANDARD DRAWING BP-3.1 FOR REQUIRED TOLERANCES.

**PAVING AT STRUCTURES**

STRUCTURES MED-42-2.47, MED-42-3.10 L/R, MED-42-4.60 L/R, MED-42-5.39 L/R, MED-42-5.89 L/R, MED-224-12.76 L/R
SUSPEND AND RESUME PAVING AT CONCRETE BRIDGE DECK AND APPROACH SLABS.

STRUCTURE MED-42-2.61
SUSPEND AND RESUME PAVING AT CONCRETE BRIDGE DECK. PLANE EXISTING ASPHALT (VARIABLE DEPTH) AND PAVE 1.5" SURFACE COURSE ONLY ON THE APPROACH SLABS. TAPER THE PLANING FROM 3.25" TO 1.50" IN 50' TO THE APPROACH SLABS.

STRUCTURES MED-42-3.21, MED-42-4.32, MED-83-4.36, MED-42-7.14
PLANE AND PAVE SAME AS ROADWAY UNDERNEATH STRUCTURE TO MAINTAIN EXISTING VERTICAL CLEARANCE.

AT STRUCTURE MED-42-3.21 (UNDER CSX), THE CONTRACTOR SHALL PROVIDE CSX WITH VERTICAL CLEARANCE MEASUREMENTS BEFORE ALL PAVING OPERATIONS UNDER THE BRIDGE BEGIN AND AFTER ALL PAVING OPERATIONS UNDER THE BRIDGE ARE COMPLETED.

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

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES. 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 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 HAMERS 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. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

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. PRIOR TO THE CONCRETE PLACEMENT, ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSR AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRE, 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. FIELD COAT EXPOSED EXISTING REINFORCING STEEL WITH EPOXY. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER CUBIC YARD OF ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

**ITEM 202 – REMOVAL, MISC.: DECK OVERHANG**

THIS ITEM SHALL INCLUDE THE INSPECTION AND REMOVAL OF DAMAGED CONCRETE AND REINFORCING STEEL ALONG DECK EDGES UNDER PARAPETS. UNLESS OTHERWISE SPECIFIED IN THIS NOTE, REMOVAL SHALL BE PERFORMED ACCORDING TO C&MS 519.03.

WITH THE ENGINEER, INSPECT DECK EDGES FOR DAMAGED CONCRETE AND EXPOSED OR CORRODED REINFORCING STEEL. REMOVE UNSOUND CONCRETE UP TO THE FULL THICKNESS OF THE DECK, TO A MINIMUM DEPTH OF 4", AND A MAXIMUM DEPTH OF 6". WHERE CONCRETE HAS ALREADY DETERIORATED PAST 6" IN DEPTH, REMOVE LOOSE CONCRETE AND PREPARE SURFACES AS DESCRIBED HEREIN. PROVIDE A NEAT SAWCUT ON THE BOTTOM OF THE DECK OVERHANG. REMOVE EXPOSED LONGITUDINAL REINFORCING STEEL NO LONGER EMBEDDED IN THE DECK CONCRETE.

WHERE PORTIONS OF THE DECK EDGE ARE DETERMINED TO BE SOUND, EXPOSE A SUFFICIENT LENGTH OF REINFORCING STEEL EXTENDING FROM THE SOUND PORTION TO PERMIT A LAP SPLICE (36" MIN. FOR #5 BAR, 43" MIN. FOR #6 BAR) WITH REPLACEMENT STEEL. IF FIELD CONDITIONS DO NOT PERMIT THIS MINIMUM LENGTH TO BE PROVIDED, OBTAIN THE ENGINEER'S APPROVAL FOR AN ALTERNATE CONNECTION METHOD OR EXCEPTION TO THIS MINIMUM VALUE.

REMOVE ALL HEAVY CORROSION AND SCALE FROM THE REINFORCING BARS WITH WIRE BRUSH OR ABRASIVE BLASTING. A MINOR AMOUNT OR TIGHTLY ADHERED RUST MAY BE LEFT IN PLACE.

DO NOT REMOVE MORE THAN 18 CONTINUOUS LINEAR FEET OF A SINGLE DECK EDGE AT A TIME. DISTANCE BETWEEN REPAIRS BEING SIMULTANEOUSLY CONDUCTED ON A SINGLE DECK EDGE SHALL NOT BE LESS THAN 18'. ALLOW A MINIMUM CURE TIME AS DIRECTED IN C&MS 511.14 PRIOR TO BEGINNING ADJACENT REPAIRS.

REMOVAL AND REINSTALLATION OF BRIDGE MOUNTED SIGNS SHALL BE INCIDENTAL. ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR THE WORK DESCRIBED ABOVE SHALL BE PAID UNDER THE CONTRACT BID PRICE PER LINEAR FOOT FOR ITEM 202 – REMOVAL, MISC.: DECK EDGE.

**ITEM 202 – REMOVAL MISC.: JOINT SEALER**

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING JOINT SEALER LOCATED BETWEEN THE APPROACH SLAB AND THE DECK OR BACKWALL.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM, WHICH WILL INCLUDE ALL LABOR EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**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 EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO C&MS 709.00.

PROVIDE CONTINUITY BETWEEN SEGMENTS OF NEW REINFORCING STEEL BY MEANS OF EPOXY-COATED MECHANICAL CONNECTORS. THE WEIGHT OF MECHANICAL CONNECTORS IS NOT INCLUDED IN THE PAY QUANTITY AND IS CONSIDERED INCIDENTAL TO THIS ITEM OF WORK.

PROVIDE CONTINUITY BETWEEN SEGMENTS OF EXISTING AND NEW REINFORCING STEEL BY MEANS OF A LAP SPLICE (36" MIN., FOR #5 BAR, 43" MIN. FOR #6 BAR) OR METHOD APPROVED BY THE ENGINEER.

PAYMENT FOR THE ABOVE SHALL BE MADE AT THE UNIT BID PRICE PER POUND FOR ITEM 509 – REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN, AND WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE THE WORK.

STRUCTURE NOTES
NOTES APPLYING TO ALL STRUCTURES LOCATED ON THIS PROJECT

SFN VARIOUS
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 54 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet1 PAPERSIZE: 17x11 (in.) DATE: 10/29/2021 TIME: 12:03:43 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_SN001.dgn

**ITEM 509 – EPOXY COATED REINFORCING STEEL, AS PER PLAN**

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO C&MS 709.00.
PROVIDE CONTINUITY BETWEEN SEGMENTS OF NEW REINFORCING STEEL BY MEANS OF EPOXY-COAED MECHANICAL CONNECTORS. THE WEIGHT OF MECHANICAL CONNECTORS IS NOT INCLUDED IN THE PAY QUANTITY AND IS CONSIDERED INCIDENTAL TO THIS ITEM OF WORK.

PROVIDE CONTINUITY BETWEEN SEGMENTS OF EXISTING AND NEW REINFORCING STEEL BY MEANS OF A LAP SPLICE (36" MIN. FOR #5 BAR, 43" MIN. FOR #6 BAR) OR METHOD APPROVED BY THE ENGINEER.

PAYMENT FOR THE ABOVE SHALL BE MADE AT THE UNIT BID PRICE PER POUND FOR ITEM 509 – EPOXY COATED REINFORCING STEEL, AS PER PLAN, AND WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NEEDED TO COMPLETE THE WORK.

**ITEM 511 – CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION)**
**ITEM 511 – CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION)**

THIS ITEM SHALL BE USED AT LOCATIONS INDICATED IN THE PLANS.

THE COARSE AGGREGATE SHALL BE LIMESTONE.

ALL EXISTNG SURFACES WITH WHICH THE CONCRETE IS TO BOND SHALL BE CLEANED BY ABRASIVE BLASTING. THESE SURFACES SHALL BE MADE FREE OF SPALLS, LAITANCE, PAINT, RUST, AND OTHER CONTAMINANTS DETRIMENTAL TO ACHIEVING AN ADEQUATE BOND.

PAYMENT FOR THE ABOVE SHALL BE MADE AT THE UNIT PRICE PER CUBIC YARD FOR THE ABOVE LISTED ITEMS AND WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE THE WORK.

**ITEM 511 – CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG**

THIS ITEM SHALL BE USED TO REBUILD DAMAGED DECK EDGES UNDER PARAPETS AT LOCATIONS SPECIFIED IN THESE PLANS. LOCATIONS TO BE REBUILT SHOULD FIRST BE PREPARED ACCORDING TO THE PROVISIONS OF ITEM 202 – REMOVAL, MISC.: DECK OVERHANG AND THIS NOTE.

THIS WORK SHALL COMPLY WITH ALL REQUIREMENTS OF C&MS 455, QUALITY CONTROL PLAN, TESTING AND ASSURANCE FOR QC/QA CONCRETE.

FURNISH MATERIALS CONFORMING TO THE C&MS SECTIONS SHOWN BELOW:

| | |
|---|---|
| CONCRETE, QC SCC (CLASS 1) | 499, 511 |
| DOWELS | 709.01, 709.03 OR 709.05 |
| REINFORCING STEEL | AS SPECIFIED IN THE PLANS |
| WELDED STEEL WIRE FABRIC | 709.10 OR 709.12 |

IN ADDITION TO THE REQUIREMENTS SHOWN ABOVE, MAXIMUM CONCRETE AGGREGATE SIZE SHALL BE #8.

PROVIDE LONGITUDINAL REINFORCING STEEL AS SPECIFIED BY ITEM 509 – EPOXY COATED REINFORCING STEEL, AS PER PLAN. SECURELY FASTEN THE REPLACEMENT STEEL TO THE EXISTING REINFORCING STEEL IN THE ORIGINAL STRUCTURE EXPOSED IN REMOVING UNSOUND CONCRETE. IF NO EXISTING REINFORCING STEEL IS EXPOSED OR IT IS NOT PRACTICAL TO FASTEN THE REPLACEMENT REINFORCING STEEL TO THE EXISTING STEEL, INSTALL DOWEL OR EXPANSION BOLTS AT A DISTANCE NOT TO EXCEED 18-INCH CENTERS IN BOTH DIRECTIONS, AND FASTEN THE REPLACEMENT STEEL TO THESE DOWELS OR BOLTS.

WELDED STEEL WIRE FABRIC SHALL BE 2" X 2" AND WIRE SIZE NUMBER W 0.9. COVER THE ENTIRE AREA OF THE REPAIR WITH THE FABRIC, AND PLACE AND HOLD THE FABRIC APPROXIMATELY 1" FROM THE COMPLETED EXPOSED SURFACE OF THE PATCH. SECURELY FASTEN THE FABRIC TO THE REINFORCING STEEL IN THE ORIGINAL STRUCTURE EXPOSED IN REMOVING UNSOUND CONCRETE, OR REPLACEMENT REINFORCING STEEL ALREADY SECURED. IF NO REINFORCING STEEL IS EXPOSED OR IT IS NOT PRACTICAL TO FASTEN THE FABRIC TO EXPOSED STEEL, INSTALL DOWEL OR EXPANSION BOLTS AT A DISTANCE NOT TO EXCEED 18-INCH CENTERS IN BOTH DIRECTIONS, AND FASTEN THE FABRIC TO THESE DOWELS OR BOLTS.

ALL EXISTING SURFACES WITH WHICH THE CONCRETE IS TO BOND SHALL BE PREPARED ACCORDING TO C&MS 520.10.

PLACE CONCRETE ACCORDING TO C&MS 519.06.

PROVIDE APPROPRIATE MEASURES TO CONTAIN AND PREVENT ANY DEBRIS FROM FALLING INTO STREAMS, ROADWAYS, OR RAIL LINES DURING PERFORMANCE OF THIS WORK.

PAYMENT FOR THE ABOVE SHALL BE MADE AT THE UNIT BID PRICE PER LINEAR FOOT FOR ITEM 511 – CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG, AND WILL INCLUDE ALL LABOR EQUIPMENT, MATERIALS, AND INCIDENTALS NEEDED TO COMPLETE THE WORK UNLES SSEPARATELY ITEMIZED IN THESE PLANS.

**ITEM 516 – STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN**

THIS ITEM SHALL BE USED ON STRUCTURES MED-42-7.14 AND MED-224-12.76R. THE WORK INVOLVES TRIMMING EXISTING CROSSFRAME CHANNEL AS NEEDED FOR PROPOSED MC 12X45 CHANNELS TO BE WELDED TO EXISTING PLATES. SEE DETAILS ON SHEET 59.

PAYMENT FOR ALL THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**ITEM 516 – REFURBISH BEARING DEVICE, AS PER PLAN**

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN BRIDGE BEARINGS AS WELL AS THEIR CLEANING AND PAINTING. INCLUDED SHALL BE THE DISASSEMBLY OF THE BEARINGS, HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (C&MS 711.21), INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT, REALIGNMENT OF THE UPPER BEARING PLATE BY REMOVING EXISTING WELDS AND REWELDING SO THAT THE BEARINGS ARE VERTICALLY ALIGNED AT 60° f, LUBRICATING SLIDING SURFACES, AND REASSEMBLY OF THE BEARINGS. ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS AND/OR BEARING DEVICES ARE "FLOATING." THIS ITEM SHALL INCLUDE PAINTING OF THE FINISH COAT TO MATCH THE EXISTING COLOR, TO THE SATISFACTION OF THE ENGINEER. AT NO ADDITIONAL COST TO THE STATE, THE CONTRACTOR MAY INSTALL NEW BEARINGS OF THE SAME TYPE AS THE EXISTING IN PLACE OF REFURBISHING THE BEARINGS. ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516 – REFURBISH BEARING DEVICE, AS PER PLAN.

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

THIS WORK CONSISTS OF THE FOLLOWING:

- RAISING OR REPOSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS – BEARING RESETS (MED-42-2.61, MED-42-3.10 L/R, MED-42-5.89 L/R, MED-224-12.76 L/R)

SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. THE CONTRACTOR SHALL PREPARE ALL TEMPORARY SUPPORT PLANS, JACKING PLANS, AND CONSTRUCTION SEQUENCES ASSOCIATED WITH THE ABOVE DESCRIBED WORK. MAIN LOAD CARRYING MEMBERS SHALL BE ADEQUATELY SUPPORTED DURING CONSTRUCTION OPERATIONS SUCH THAT THE EXISTING STRUCTURE SHALL INCUR NO DAMAGE.

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 SEPARATEFROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH CMS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOCY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT MPAY FOR THE REPAIR COSTS TO ENSURE FULL 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.

**ITEM 517 – RAILING, MISC.: DEEP BEAM RAILING PANELS**

THIS ITEM SHALL INCLUDE THE REMOVAL AND REPLACEMENT OF THE EXISTING DEEP BEAM RAILING PANELS. THE REMOVAL AND REPLACEMENT OF ALL BOLTS AND HARDWARE NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THIS ITEM. THE EXISTING TUBULAR BACKUP IS TO BE RETAINED. THE RAIL ELEMENTS SHALL BE OF THE SAME TYPE AND SIZE AS THE EXISTING RAILING. THEY SHALL BE PLACED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING DBR-2-73.

**ITEM 519 – SPECIAL - COMPOSITE FIBER WRAP SYSTEM**

THIS ITEM SHALL BE USED WHERE DECK EDGE REPAIRS ARE PERFORMED ON STRUCTURES PASSING OVER ROADWAYS. THE WRAP SHALL COVER THE LENGTH OF THE SHOULDERS AND LANES OF PAVEMENT UNDERNEATH AND USE A WIDTH OF 3' (1' ADHERED TO THE SOFFIT AND 2' ADHERED TO THE OUTSIDE OF THE BARRIER).

SEE PROPOSAL NOTE 519 FOR ADDITIONAL DETAILS.

PAYMENT FOR ALL THE ABOVE ITEMS WILL BE MADE AT THE UNIT BID PRICE PER SQUARE FOOT AND IS TO INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NEEDED TO COMPLETE THE ABOVE WORK.

**ITEM 623 – CONSTRUCTION LAYOUT STAKES, AS PER PLAN**

AFTER COMPLETION OF ALL WORK, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG EACH FASCIA BEAM AT THE EDHE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURBEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS. WHERE THE OFOT DISTRICT 12 VERTICAL CLEARANCESURVEY FORM IS NOT APPLICABLE, THE MEASUREMENTS SHALL BE DOCUMENTED ON A CONTRACTOR-DEVELOPED FORM THAT CLOSELY RESEMBES THE ODOT DISTRICT 12 VERTIVAL CLEARANCE SURVEY FORM AND ACCURATELY DEPICTS THE BRIDGE AND BELOW LANE AND SHOULDER CONFIGURATION. THE COMPLETED FORM SHALL BEAR THE STAMP OR SEAL OF THE OHIO ROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM CAN BE DOWNLOADED FROM THE FOLLOWING WEBSITE:

HTTP://WWW.DOT.STATE.OH.US/DISTRICTS/D12/HIGHWAYMANAGEMENT/PAGES/PERMITS.ASPX

AT STRUCTURE MED-42-3.21 (UNDER CSX), THE CONTRACTOR SHALL PROVIDE CSX WITH VERTICAL CLEARANCE MEASUREMENTS BEFORE ALL PAVING OPERATIONS UNDER THE BRIDGE BEGIN AND AFTER ALL PAVING OPERATIONS UNDER THE BRIDGE ARE COMPLETED.

**ITEM 848 – MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN**
**ITEM 848 – MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN**

EACH ITEM SHALL BE USED AT THE LOCATIONS INDICATED IN THE PLANS.

THE COARSE AGGREGATE SHALL BE LIMESTONE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID FOR EACH OF THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**ITEM SPECIAL – PATCHING CONCRETE BRIDGE DECK – TYPE B**

USE THIS ITEM AT THE LOCATIONS INDICATED IN THE PLANS. QUANTITIES SHOWN IN THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. EXACT DIMENSIONS AND LOCATIONS OF REPAIRS SHALL BE DETERMINED BY THE ENGINEER.

SEE PROPOSAL NOTE 512 FOR ADDITIONAL DETAILS.

PAYMENT FOR ALL THE ABOVE ITEMS WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD AND IS TO INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE THE ABOVE WORK.

STRUCTURE NOTES
NOTES APPLYING TO ALL STRUCTURES LOCATED ON THIS PROJECT

SFN
VARIOUS
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 2 | TOTAL 2
SHEET 55 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)
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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761400-Engineering\Roadway\Sheets\79761_SN001.dgn

| ITEM | EXTENSION | QUANTITY | | | | | | | | | | | | | TOTAL | UNIT | DESCRIPTION | REFERENCE SHEET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MED-42-2.61 | MED-42-3.10 | | MED-42-4.60 | | MED-42-5.39 | | MED-42-5.89 | | MED-42-7.14 | MED-83-4.36 | MED-224-12.76 | | | | | |
| | | | LEFT | RIGHT | LEFT | RIGHT | LEFT | RIGHT | LEFT | RIGHT | | | LEFT | RIGHT | | | | |
| 202 | 11301 | | | | 1 | 1 | | | | | 12 | | | 8 | 22 | CY | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | 54 |
| 202 | 32000 | | 52 | 52 | | | | | | | | | | | 104 | FT | CURB REMOVED | |
| 202 | 32600 | | 100 | 100 | | | | | | | | 76 | | | 276 | FT | GUTTER REMOVED | |
| 202 | 98200 | | 256 | 256 | | | | | | | | | | | 512 | FT | REMOVAL, MISC.: DECK OVERHANG | 54 |
| 202 | 98200 | | 66 | 90 | 94 | 94 | 80 | 80 | 94 | 141 | | | 80 | 88 | 907 | FT | REMOVAL, MISC.: JOINT SEALER | 54 |
| | | | | | | | | | | | | | | | | | | |
| 509 | 10001 | | 829 | 829 | | | | | | | | | | | 1,658 | LB | EPOXY COATED REINFORCING STEEL, AS PER PLAN | 55 |
| 509 | 20001 | | 100 | 100 | | | | | | | | | | | 200 | LB | REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCEMENT STEEL, AS PER PLAN | 54 |
| 511 | 21521 | | | | | | | | | | 7 | | | 2 | 9 | CY | CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION) | 55 |
| 511 | 45711 | | | | | | | | | | 5 | | | 3 | 8 | CY | CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION) | 55 |
| 511 | 46010 | | | | 1 | 1 | | | | | | | | 3 | 5 | CY | CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING | |
| | | | | | | | | | | | | | | | | | | |
| 511 | 81100 | | 256 | 256 | | | | | | | | | | | 512 | FT | CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG | 55 |
| 512 | 10100 | | 90 | 90 | | | | | | | 8 | | | | 188 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | |
| 512 | 10300 | 32 | 28 | 28 | 26 | 26 | 800 | 800 | 605 | 605 | | | 28 | 40 | 3,018 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN | |
| 513 | 21000 | | | | | | | | | | 10 | | | | 10 | EACH | TRIMMING OF BEAM END | |
| 516 | 10000 | | | | | | | | | 47 | | | | | 47 | FT | PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL | |
| | | | | | | | | | | | | | | | | | | |
| 516 | 11211 | | | | | | | | | | 104 | | | 44 | 148 | FT | STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN | 55 |
| 516 | 31000 | | 66 | 90 | 94 | 94 | 80 | 80 | 94 | 94 | 72 | | 80 | 88 | 932 | FT | JOINT SEALER | |
| 516 | 45305 | 5 | 4 | 3 | | | | | 2 | 2 | 4 | | 1 | 5 | 26 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN | 55 |
| 516 | 47001 | LS | LS | LS | | | | | LS | LS | LS | | LS | LS | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN | 55 |
| 517 | 75600 | 300 | | | 238 | 238 | 425 | 425 | 250 | 250 | | | 262.5 | 262.5 | 2,651 | FT | DEEP BEAM BRIDGE RETROFIT RAILING | |
| | | | | | | | | | | | | | | | | | | |
| 517 | 76200 | 300 | | | 238 | 238 | 425 | 425 | 250 | 250 | | | 262.5 | 262.5 | 2,651 | FT | RAILING, MISC.: DEEP BEAM RAILING PANELS | 55 |
| SPECIAL | 519E00100 | | 240 | 240 | | | | | | | | | | | 480 | SF | COMPOSITE FIBER WRAP SYSTEM | 55 |
| 519 | 11100 | | 33 | 38 | 6 | 24 | 28 | 10 | | 3 | 141 | 12 | 21 | | 316 | SF | PATCHING CONCRETE STRUCTURE | |
| 601 | 21060 | | | 18 | | | | | | | | | | | 18 | SY | TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT | |
| 601 | 27000 | | 25 | 25 | | | | | | | | 21 | | | 71 | CY | DUMPED ROCK FILL, TYPE C | |
| | | | | | | | | | | | | | | | | | | |
| 848 | 10001 | 709 | 474 | 644 | 574 | 574 | | | | | | | 558 | 858 | 4,391 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (VARIABLE THICKNESS) | 55 |
| 848 | 20000 | 709 | 474 | 644 | 574 | 574 | | | | | | | 558 | 858 | 4,391 | SY | SURFACE PREPARATION USING HYDRODEMOLITION | |
| 848 | 30001 | 22 | 9 | 13 | 11 | 11 | | | | | | | 17 | 27 | 110 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN | 55 |
| 848 | 50000 | 40 | 27 | 36 | 32 | 32 | | | | | | | 31 | 48 | 246 | SY | HAND CHIPPING | |
| 848 | 50100 | LS | LS | LS | LS | LS | | | | | | | LS | LS | LS | | TEST SLAB | |
| | | | | | | | | | | | | | | | | | | |
| 848 | 50200 | | 2 | 3 | 12 | 8 | | | | | | | 2 | 5 | 33 | CY | FULL DEPTH REPAIR | |
| 848 | 50320 | 709 | 474 | 644 | 574 | 574 | | | | | | | 558 | 858 | 4,391 | SY | EXISTING CONCRETE OVERLAY REMOVED (VARIABLE THICKNESS) | |
| 848 | 50340 | 398 | 266 | 361 | 322 | 322 | | | | | | | 313 | 481 | 2,463 | SY | REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY | |
| | | | | | | | | | | | | | | | | | | |
| SPECIAL | 519E12510 | | 12 | | 2 | 4 | 18 | 9 | | | | | 3 | 7 | 55 | SY | PATCHING CONCRETE BRIDGE DECK, TYPE B | 55 |

STRUCTURE SUMMARY
STRUCTURE SUMMARY FOR ALL STRUCTURES ON THIS PROJECT

SFN
VARIOUS

DESIGN AGENCY
DISTRICT 3

ENGINEERING TEAM TWO

| DESIGNER | CHECKER |
|---|---|
| JLL | KRB |

REVIEWER
KAK 7-6-21

PROJECT ID
79761

| SUBSET | TOTAL |
|---|---|
| 1 | 1 |

| SHEET | TOTAL |
|---|---|
| 56 | 79 |

MED-42-1.89/MED-224-(6.25)(10.45)
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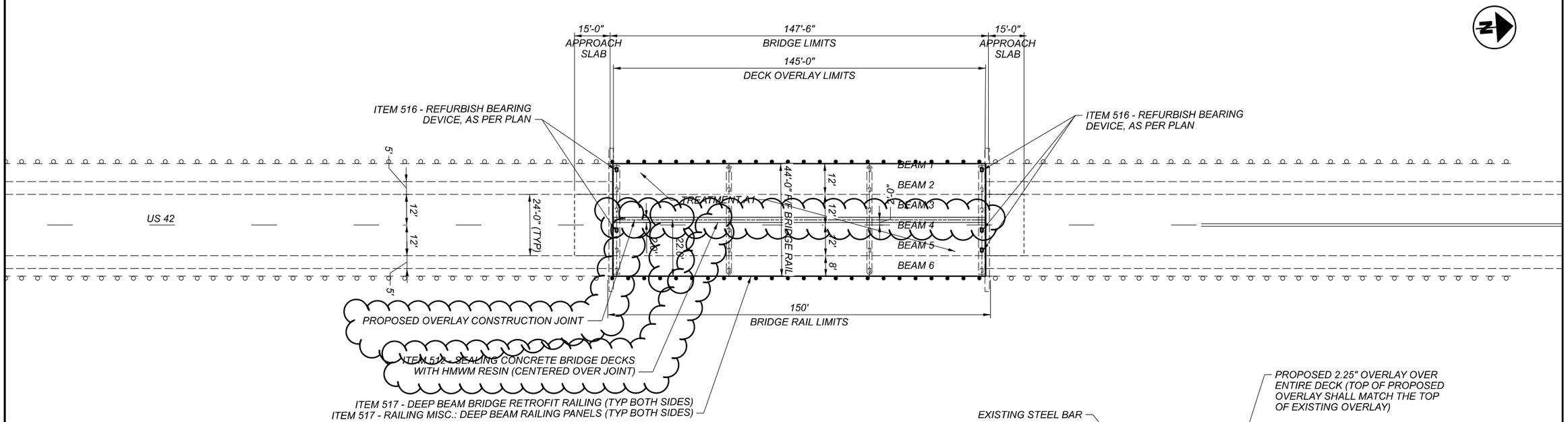


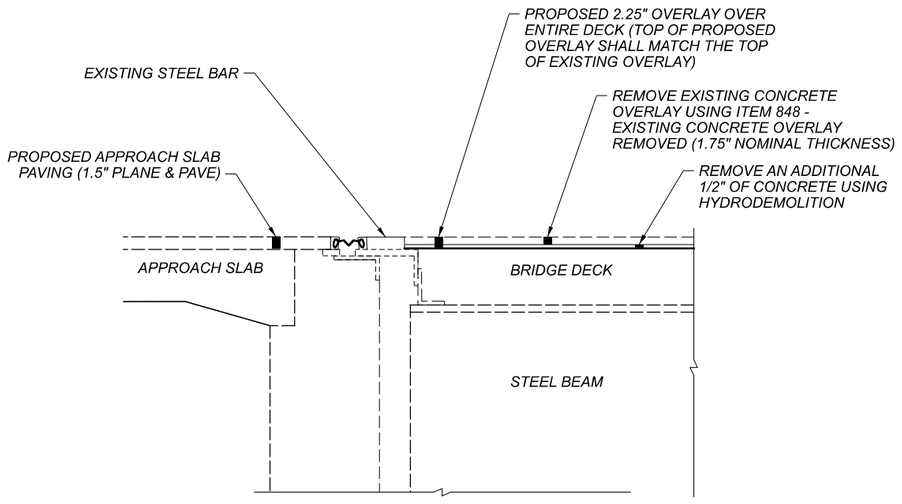


## BEAM/JOINT DETAIL

NOTES:

1.) REFURBISH BEARINGS #1 AND #4 ON THE REAR ABUTMENT AND #1, #4 AND #5 ON THE FORWARD ABUTMENT.

2.) SEE SUPPLEMENTAL SPECIFICATION 848 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET.

3.) USE EXTREME CARE WHEN PERFORMING ALL ITEMS THAT REQUIRE ANY REMOVAL OF THE EXISTING STRUCTURE AS TO NOT DAMAGE ANY EXISTING REINFORCING STEEL; THE REINFORCING STEEL IS TO REMAIN IN PLACE AND NOT BE REMOVED IN THE REMOVAL PROCESS. CLEAN EXPOSED REINFORCING STEEL AS PER ITEM 848 WHERE APPLICABLE AND DEEMED NECESSARY BY THE ENGINEER. SHOULD ANY REINFORCING STEEL BE DAMAGED AS A RESULT OF ANY WORK PERFORMED, REPAIR OR REPLACE THE DAMAGED AREA AS DIRECTED.

4.) ACCORDING TO CURRENT CORING DATA, THE TOP MAT OF THE EXISTING REINFORCING STEEL IS 3 INCHES BELOW THE CURRENT SURFACE.

5.) PREPARE A SECTION 2 FEET WIDE OVER THE LENGTH OF THE BRIDGE DECK, CENTERED OVER THE PROPOSED CONSTRUCTION JOINT, AND SEAL USING ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN.

| ITEM | QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|
| 512 | 32 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN |
| 516 | 5 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN |
| 516 | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN |
| 517 | 300 | FT | DEEP BEAM BRIDGE RETROFIT RAILING |
| 517 | 300 | FT | RAILING MISC.: DEEP BEAM RAILING PANELS |
| 848 | 709 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2.25" THICK) |
| 848 | 709 | SY | SURFACE PREPARATION USING HYDRODEMOLITION |
| 848 | 22 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN |
| 848 | 40 | SY | HAND CHIPPING |
| 848 | LS | | TEST SLAB |
| 848 | 709 | SY | EXISTING CONCRETE OVERLAY REMOVED (1.75" NOMINAL THICKNESS) |
| 848 | 398 | SY | REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY |

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

STRUCTURE DETAILS
MED-42-2.61
STRUCTURE OVER WEST FORK OF EAST BRANCH BLACK RIVER

SFN 5200938
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER KRB | CHECKER XXX
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 3
SHEET 60 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

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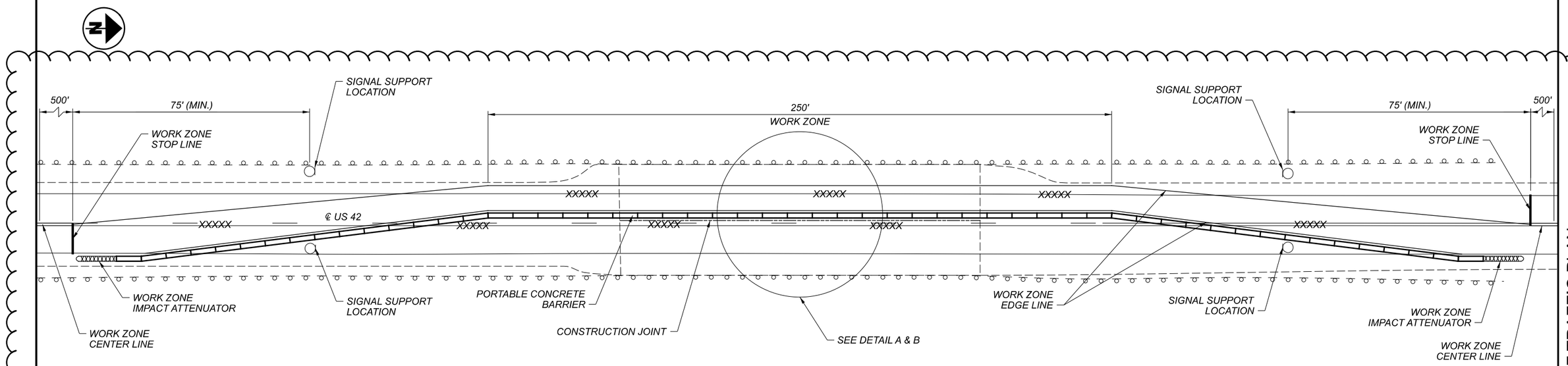
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Structures\SFN_5200938\Sheets\79761_SFN_5200938_SG001.dgn




# MOT DETAIL

PHASE A - SHOWN
PHASE B - SIMILAR

**FULLY-ACTUATED OPERATION OF WORK ZONE TRAFFIC SIGNAL**

THE WORK ZONE SIGNAL CONTROL REQUIRED FOR THIS PROJECT AND SHOWN ON THIS SHEET AND TRAFFIC SCDS MT- 96.11, 96.20 AND 96.26 SHALL BE FULLY TRAFFIC-ACTUATED AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE INITIAL CONTROLLER TIMING SHALL BE AS FOLLOWS:

| | PHASE | |
|---|---|---|
| | MED-42-2.61 | |
| | 1 MAINLINE (NORTHBOUND) | 2 MAINLINE (SOUTHBOUND) |
| MIN. GREEN | 27 | 27 |
| EXTENSION | 4 | 4 |
| MAX. GREEN | 30 | 30 |
| YELLOW | 5 | 5 |
| ALL RED | 13 | 13 |
| RECALL | OFF | OFF |

PROVIDE TIMING APPROPRIATE FOR THE SIGNAL LOCATION UNDER CONSIDERATION. TYPICAL FLOW RATES ARE DISPLAYED IN TABLE 697-2 IN THE ODOT TRAFFIC ENGINEERING MANUAL (TEM).

THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN A TRAFFIC DETECTOR ON EACH TRAFFIC APPROACH WHICH WILL RELIABLY DETECT ALL LEGAL TRAFFIC APPROACHING (BUT NOT LEAVING) THE SIGNAL AS IT PASSES OR WAITS IN THE DESIGNATED DETECTOR ZONE SHOWN IN THE PLANS. DETECTOR DESIGNS WHICH DO NOT PROVIDE RELIABLE DETECTION, FREE FROM FALSE CALLS, SHALL BE IMMEDIATELY REPLACED BY THE CONTRACTOR.

ESTIMATED QUANTITIES (04/STR/BR)

| ITEM | QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|
| 614 | 2 | EACH | WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) |
| 614 | 11 | EACH | BARRIER REFLECTOR, TYPE 1 (ONE-WAY) |
| 614 | 11 | EACH | OBJECT MARKER, ONE WAY |
| 614 | 0.19 | MILE | WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I |
| 614 | 0.42 | MILE | WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I |
| 614 | 24 | FT | WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I |
| 622 | 550 | FT | PORTABLE BARRIER, UNANCHORED |

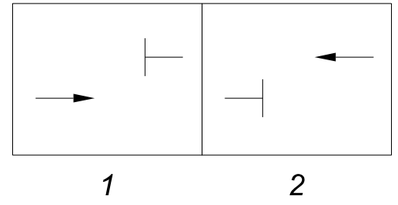
ALL QUANTITIES CARRIED TO THE GENERAL SUMMARY

NOTES:
1.) FOR ADDITIONAL DETAILS, SEE SCDs MT-96.11, MT-96.20, MT-96.26 AND ALSO SUPPLEMENTAL SPECIFICATION 961.

2.) ACCESS TO ALL DRIVES SHALL BE MAINTAINED AT ALL TIMES.

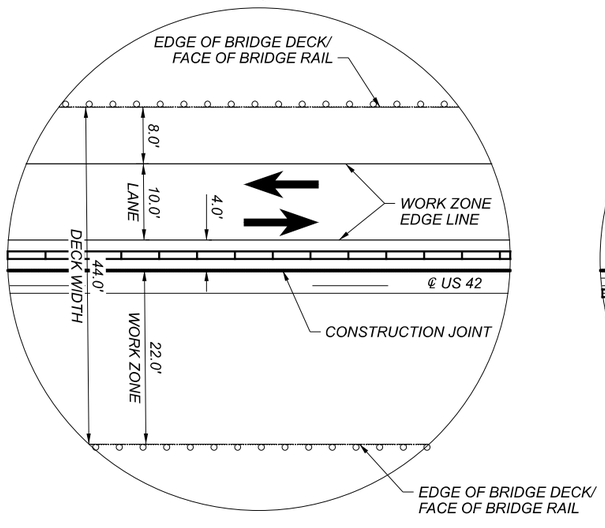
3.) SEE SHEET 51 FOR REPLACEMENT PAVEMENT MARKING ITEMS AND QUANTITIES.

## SIGNAL PHASING DIAGRAM



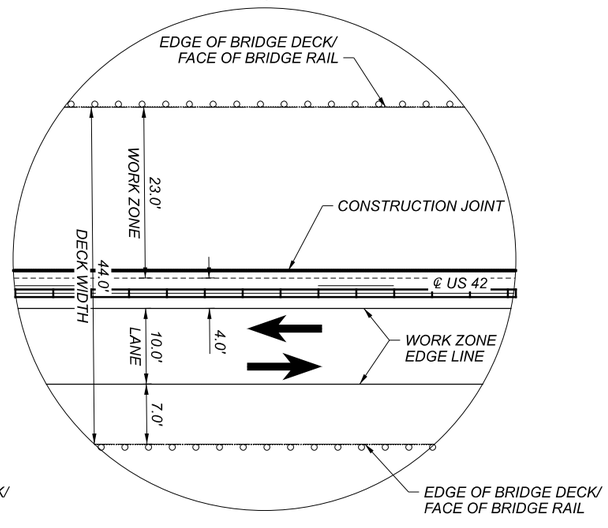

## DETAIL A

PHASE A




## DETAIL B

PHASE B

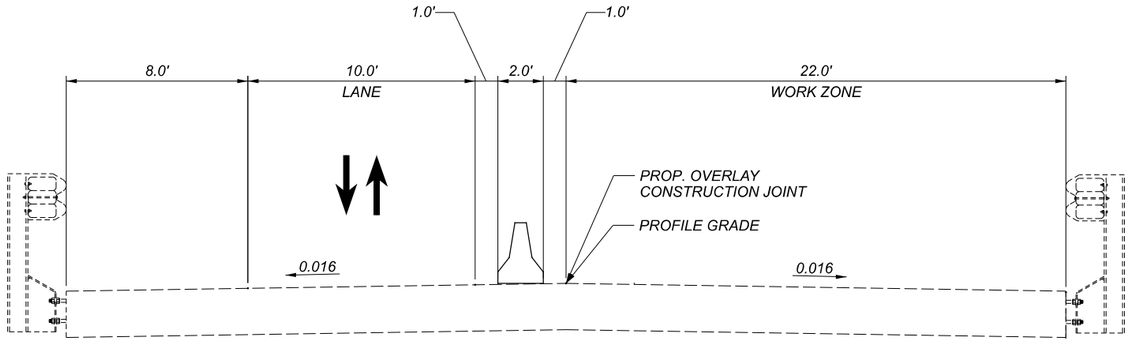



MAINTENANCE OF TRAFFIC PLAN
MED-42-2.61
STRUCTURE OVER WEST FORK OF EAST BRANCH BLACK RIVER

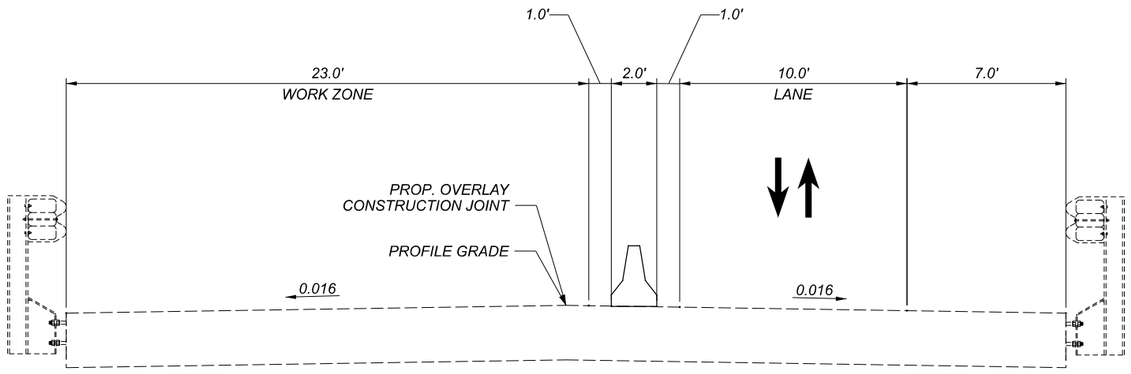
SFN 5200938
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER SRO
REVIEWER KRB 7-6-21
PROJECT ID 79761
SUBSET 2 | TOTAL 3
SHEET 61 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: MOT Details PAPERSIZE: 17x11 (in.) DATE: 10/27/2021 TIME: 1:53:47 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Structures\SFN_5200938\Sheets\79761_SFN_5200938_SG001.dgn




TYPICAL SECTION - MOT PHASE A



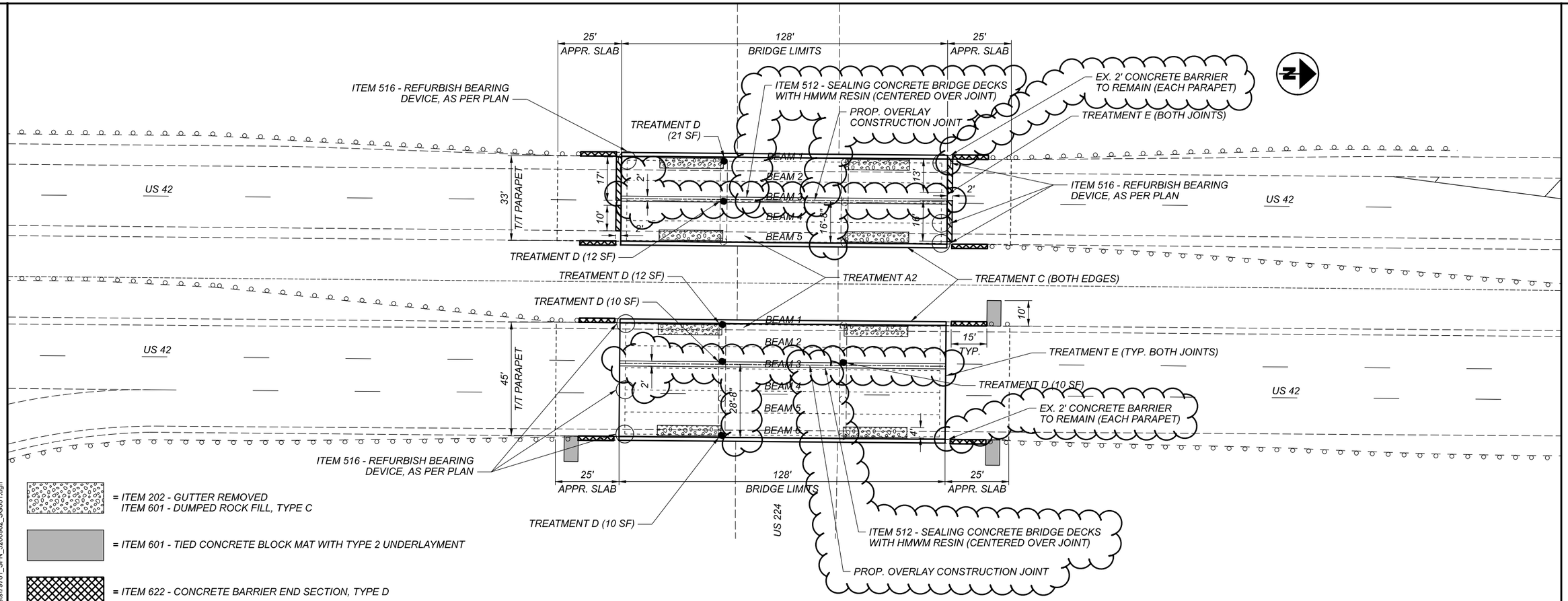

TYPICAL SECTION - MOT PHASE B

MAINTENANCE OF TRAFFIC PLAN
MED-42-2.61
STRUCTURE OVER WEST FORK OF EAST BRANCH BLACK RIVER

SFN 5200938
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER XXX
REVIEWER KRB MM-DD-YY
PROJECT ID 79761
SUBSET 3 | TOTAL 3
SHEET 61A | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: MOT Details 2 PAPERSIZE: 17x11 (in.) DATE: 10/27/2021 TIME: 1:45:31 PM USER: ksalley
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Structures\SFN_5200938\Sheets\79761_SFN_5200938_SG001.dgn




= ITEM 202 - GUTTER REMOVED
ITEM 601 - DUMPED ROCK FILL, TYPE C

= ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT

= ITEM 622 - CONCRETE BARRIER END SECTION, TYPE D

= ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK, TYPE B

| ITEM | MED-42-3.10 L | MED-42-3.10 R | TOTAL QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|---|---|
| 202 | 52 | 52 | 104 | FT | CURB REMOVED |
| 202 | 100 | 100 | 200 | FT | GUTTER REMOVED |
| 202 | 256 | 256 | 512 | FT | REMOVAL, MISC.: DECK OVERHANG |
| 202 | 66 | 90 | 156 | FT | REMOVAL, MISC.: JOINT SEALER |
| 509 | 829 | 829 | 1,658 | LB | EPOXY COATED REINFORCING STEEL, AS PER PLAN |
| 509 | 100 | 100 | 200 | LB | REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCEMENT STEEL, AS PER PLAN |
| 511 | 256 | 256 | 512 | FT | CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG |
| 512 | 90 | 90 | 180 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |
| 512 | 28 | 28 | 57 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN |
| 516 | 66 | 90 | 156 | FT | JOINT SEALER |
| 516 | 4 | 3 | 7 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN |
| 516 | LS | LS | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN |
| SPECIAL | 240 | 240 | 480 | SF | COMPOSITE FIBER WRAP SYSTEM |
| 519 | 33 | 38 | 71 | SF | PATCHING CONCRETE STRUCTURE |
| 601 | | 18 | 18 | SY | TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT |
| 601 | 25 | 25 | 50 | CY | DUMPED ROCK FILL, TYPE C |
| 848 | 474 | 644 | 1,118 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75" THICK) |
| 848 | 474 | 644 | 1,118 | SY | SURFACE PREPARATION USING HYDRODEMOLITION |
| 848 | 9 | 13 | 22 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN |
| 848 | 27 | 36 | 63 | SY | HAND CHIPPING |
| 848 | LS | LS | LS | | TEST SLAB |
| 848 | 2 | 4 | 6 | CY | FULL DEPTH REPAIR |
| 848 | 474 | 644 | 1,118 | SY | EXISTING CONCRETE OVERLAY REMOVED (1.25" NOMINAL THICKNESS) |
| 848 | 266 | 361 | 627 | SY | REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY |
| SPECIAL | 12 | | 12 | SY | PATCHING CONCRETE BRIDGE DECK, TYPE B |

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

NOTES:

1.) MED-42-3.10L
REFURBISH BEARING #1 ON THE REAR ABUTMENT, AND BEARINGS #1, #4 AND #5 ON THE FORWARD ABUTMENT. JACK AND SHIM AS NECESSARY TO ALLOW ELEVATION OF EXPANSION JOINT ARMOR ON DECK SIDE TO MATCH ELEVATION OF JOINT ARMOR ON BACKWALL SIDE.

2.) MED-42-3.10R
REFURBISH BEARING #1 ON THE REAR ABUTMENT. SHIM AS NECESSARY TO ALLOW ELEVATION OF EXPANSION JOINT ARMOR ON DECK SIDE TO MATCH ELEVATION OF JOINT ARMOR ON BACKWALL SIDE.

3.) SEE SUPPLEMENTAL SPECIFICATION 848 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET.

4.) PERFORM ALL JOINT SEALING AFTER ALL REPAIR WORK HAS BEEN COMPLETED.

5.) USE EXTREME CARE WHEN PERFORMING ALL ITEMS THAT REQUIRE ANY REMOVAL OF THE EXISTING STRUCTURE AS TO NOT DAMAGE ANY EXISTING REINFORCING STEEL; THE REINFORCING STEEL IS TO REMAIN IN PLACE AND NOT BE REMOVED IN THE REMOVAL PROCESS. CLEAN EXPOSED REINFORCING STEEL AS PER ITEM 848 WHERE APPLICABLE AND DEEMED NECESSARY BY THE ENGINEER. SHOULD ANY REINFORCING STEEL BE DAMAGED AS A RESULT OF ANY WORK PERFORMED, REPAIR OR REPLACE THE DAMAGED AREA AS DIRECTED.

6.) ACCORDING TO CURRENT CORING DATA, THE TOP MAT OF THE EXISTING REINFORCING STEEL IS 3.25 INCHES BELOW THE CURRENT SURFACE.

7.) SEE ROADWAY SUB-SUMMARY FOR CONCRETE BARRIER END SECTION, TYPE D PAYMENT INFORMATION.

8.) PERFORM PIER COLUMN REPAIRS USING ITEM 519 - PATCHING CONCRETE STRUCTURE.

9.) ADDITIONAL QUANTITY OF 15 SQUARE YARDS (EACH STRUCTURE) OF ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) HAS BEEN ADDED TO TOUCH UP DAMAGED AREAS OF THE EXISTING PARAPETS THAT HAVE PREVIOUSLY BEEN SEALED.

10.) PREPARE A SECTION 2 FEET WIDE OVER THE LENGTH OF THE BRIDGE DECK, CENTERED OVER THE PROPOSED CONSTRUCTION JOINT, AND SEAL USING ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN.

STRUCTURE DETAILS
MED-42-3.10 (L/R)
OVER US 224

SFN 5200962
SFN 5200997
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 62 | TOTAL 79

MED-42-1.89/MED-42-(6.25)(10.45)

MODEL: Details 1 PAPERSIZE: 17x11 (in.) DATE: 10/29/2021 TIME: 11:16:08 AM USER: ksalay
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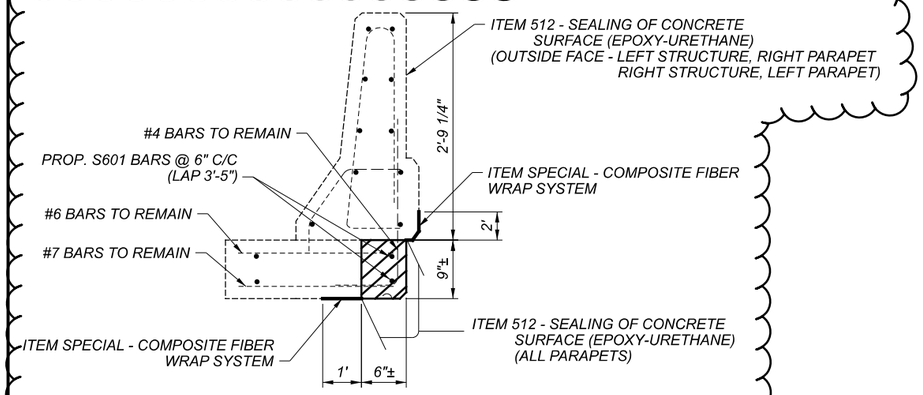
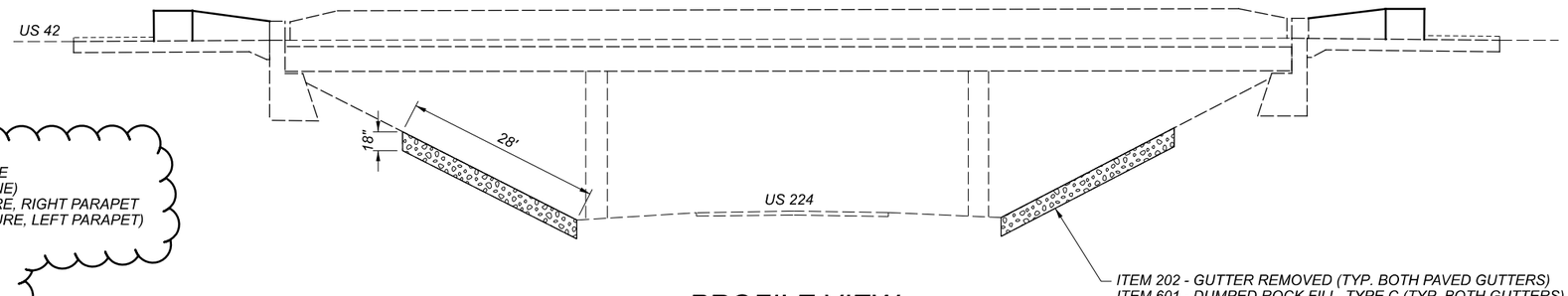
| REINFORCING STEEL | | | | | |
|---|---|---|---|---|---|
| BAR MARK | NUMBER | LENGTH | TYPE | EACH SIDE | WEIGHT |
| | | | | | |
| S601 | 8 | 34'-6" | STR. | 4 | 1,658 |
| | | | | | |



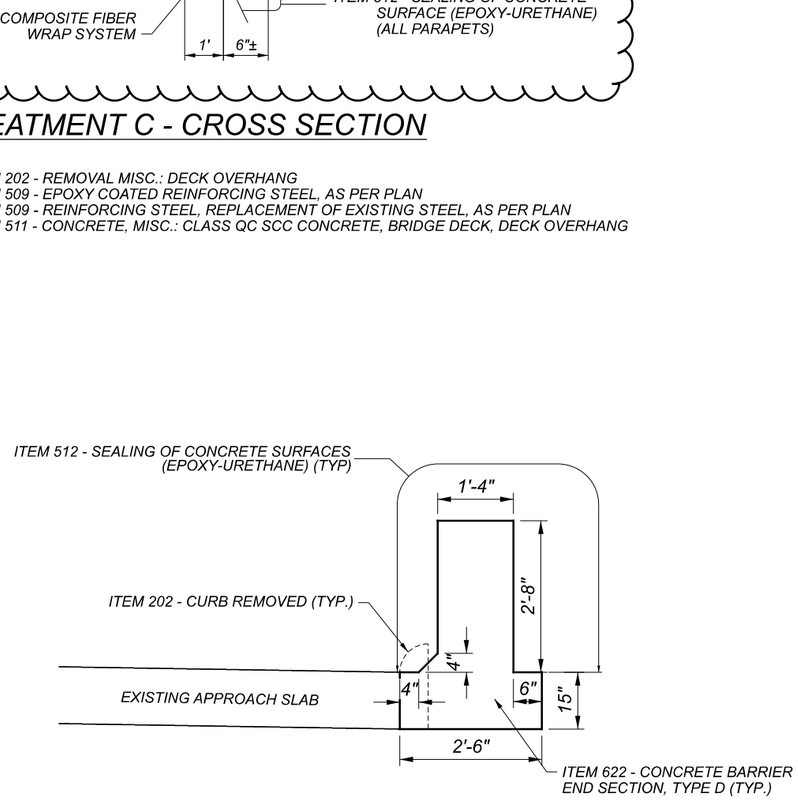

## TREATMENT C - CROSS SECTION

ITEM 202 - REMOVAL MISC.: DECK OVERHANG
ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN
ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING STEEL, AS PER PLAN
ITEM 511 - CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG



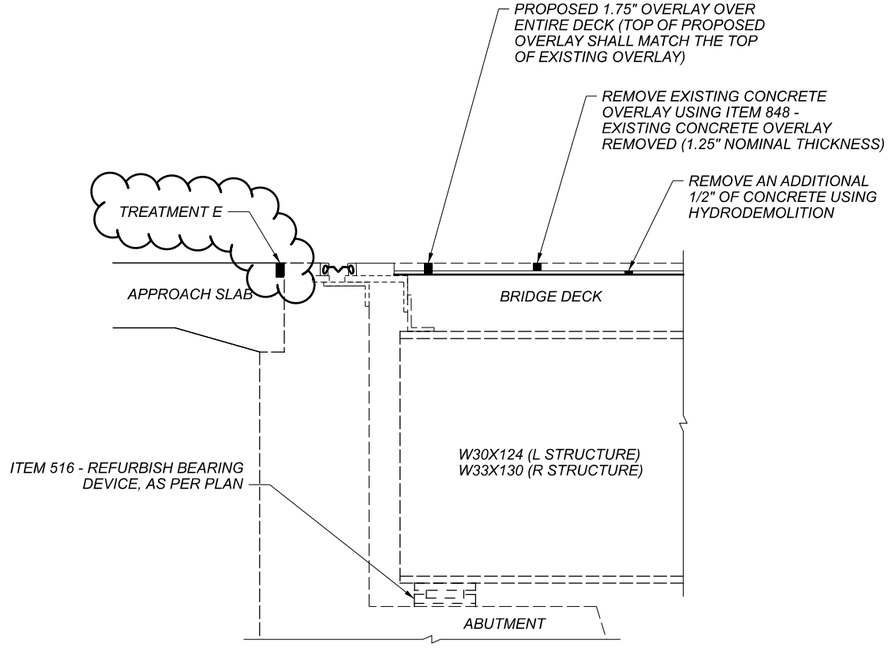

## PROFILE VIEW

BOTH STRUCTURES SIMILAR
EXISTING/PROPOSED GUARDRAIL NOT SHOWN




## CONCRETE BARRIER END SECTION DETAIL

REINFORCING STEEL NOT SHOWN FOR CLARITY



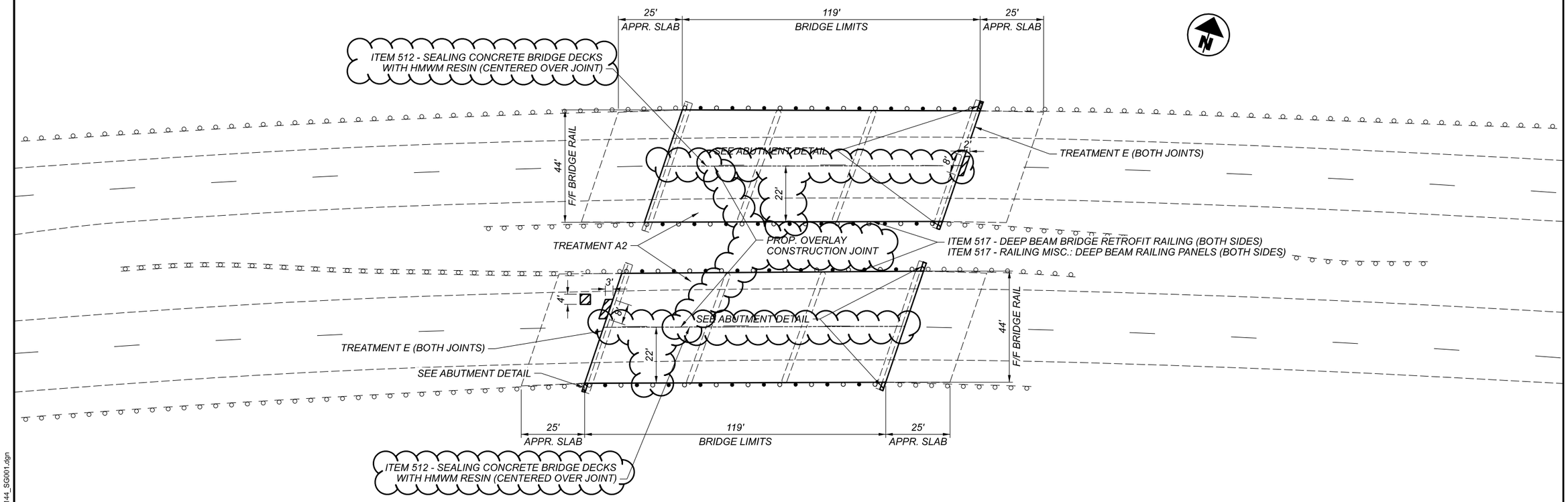

## BEAM/JOINT DETAIL

STRUCTURE DETAILS
MED-42-3.10 (L/R)
OVER US 224

| | |
|---|---|
| SFN | 5200962 |
| SFN | 5200997 |
| DESIGN AGENCY | DISTRICT 3 |
| | ENGINEERING TEAM TWO |
| DESIGNER | JLL |
| CHECKER | KRB |
| REVIEWER | KAK 7-6-21 |
| PROJECT ID | 79761 |
| SUBSET | 2 |
| TOTAL | 2 |
| SHEET | 63 |
| TOTAL | 79 |

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Details 2 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 4:30:43 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Structures\SFN_5200962\Sheets\79761_SFN_5200962_SG001.dgn




= ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK, TYPE B

NOTES:

1.) SEE SUPPLEMENTAL SPECIFICATION 848 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET.

2.) PERFORM ALL JOINT SEALING AFTER ALL REPAIR WORK HAS BEEN COMPLETED.

3.) USE EXTREME CARE WHEN PERFORMING ALL ITEMS THAT REQUIRE ANY REMOVAL OF THE EXISTING STRUCTURE AS TO NOT DAMAGE ANY EXISTING REINFORCING STEEL; THE REINFORCING STEEL IS TO REMAIN IN PLACE AND NOT BE REMOVED IN THE REMOVAL PROCESS. CLEAN EXPOSED REINFORCING STEEL AS PER ITEM 848 WHERE APPLICABLE AND DEEMED NECESSARY BY THE ENGINEER. SHOULD ANY REINFORCING STEEL BE DAMAGED AS A RESULT OF ANY WORK PERFORMED, REPAIR OR REPLACE THE DAMAGED AREA AS DIRECTED.

4.) ACCORDING TO CURRENT OCRING DATA, THE TOP MAT OF THE EXISTING REINFORCING STEEL IS 3.75 INCHES BELOW THE CURRENT SURFACE.

5.) SEE SHEET 2 FOR ABUTMENT AND BEAM/JOINT DETAILS.

6.) PREPARE A SECTION 2 FEET WIDE OVER THE LENGTH OF THE BRIDGE DECK, CENTERED OVER THE PROPOSED CONSTRUCTION JOINT, AND SEAL USING ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN.

| ITEM | MED-42-4.60 | | TOTAL QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|---|---|
| | L | R | | | |
| 202 | 1 | 1 | 2 | CY | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN |
| 202 | 94 | 94 | 188 | FT | REMOVAL, MISC.: JOINT SEALER |
| 511 | 1 | 1 | 2 | CY | CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING |
| 512 | 26 | 26 | 53 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN |
| 516 | 94 | 94 | 188 | FT | JOINT SEALER |
| 517 | 238 | 238 | 476 | FT | DEEP BEAM BRIDGE RETROFIT RAILING |
| 517 | 238 | 238 | 476 | FT | RAILING MISC.: DEEP BEAM RAILING PANELS |
| 519 | 6 | 24 | 30 | SF | PATCHING CONCRETE STRUCTURE |
| 848 | 574 | 574 | 1,148 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75" THICK) |
| 848 | 574 | 574 | 1,148 | SY | SURFACE PREPARATION USING HYDRODEMOLITION |
| 848 | 11 | 11 | 22 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN |
| 848 | 32 | 32 | 64 | SY | HAND CHIPPING |
| 848 | LS | LS | LS | | TEST SLAB |
| 848 | 12 | 8 | 20 | CY | FULL DEPTH REPAIR |
| 848 | 574 | 574 | 1,148 | SY | EXISTING CONCRETE OVERLAY REMOVED (1.25" NOMINAL THICKNESS) |
| 848 | 322 | 322 | 644 | SY | REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY |
| SPECIAL | 2 | 4 | 6 | SY | PATCHING CONCRETE BRIDGE DECK, TYPE B |

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

# STRUCTURE DETAILS
## MED-42-4.60 (L/R)
## TWIN STRUCTURES OVER WEST FORK RIVER

SFN 5201144
SFN 5201179
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 64 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Details1 PAPERSIZE: 17x11 (in.) DATE: 10/29/2021 TIME: 11:22:46 AM USER: ksalay
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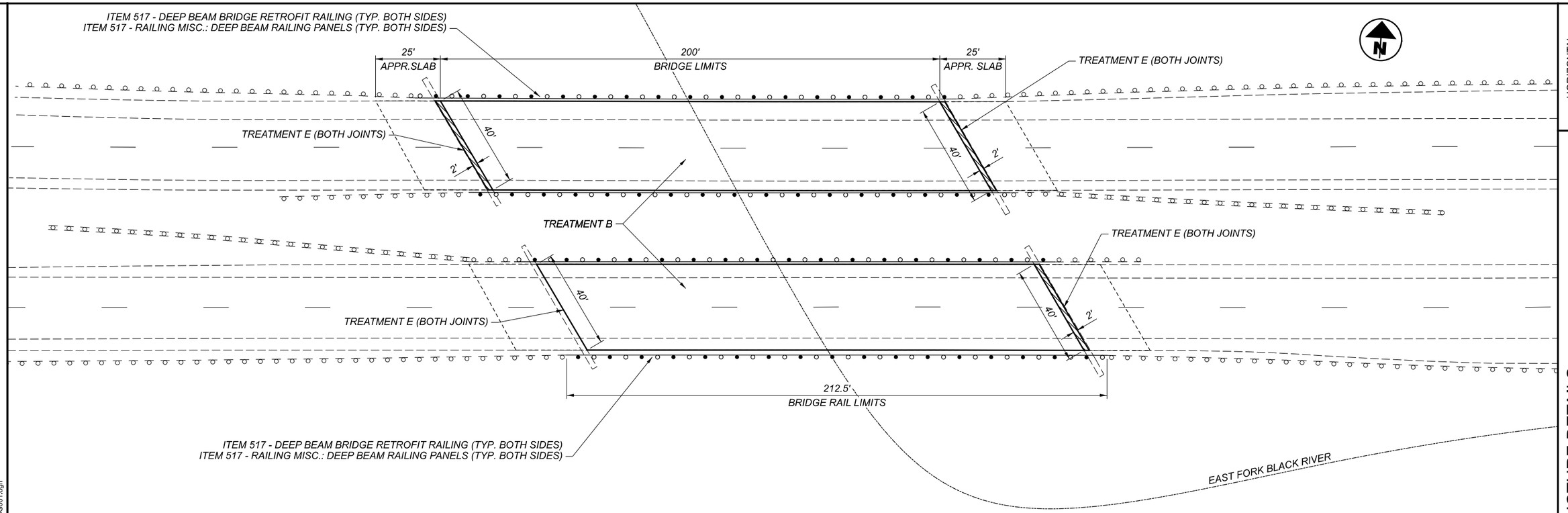



= ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK, TYPE B

NOTES:

1.) SEE SHEET 2 FOR ABUTMENT PATCH DETAILS.

| ITEM | MED-42-5.39 | | TOTAL QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|---|---|
| | L | R | | | |
| 202 | 80 | 80 | 160 | FT | REMOVAL, MISC.: JOINT SEALER |
| 512 | 800 | 800 | 1,600 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN |
| 516 | 80 | 80 | 160 | FT | JOINT SEALER |
| 517 | 425 | 425 | 850 | FT | DEEP BEAM BRIDGE RETROFIT RAILING |
| 517 | 425 | 425 | 850 | FT | RAILING MISC.: DEEP BEAM RAILING PANELS |
| 519 | 28 | 10 | 38 | SF | PATCHING CONCRETE STRUCTURE |
| SPECIAL | 18 | 9 | 27 | SY | PATCHING CONCRETE BRIDGE DECK, TYPE B |

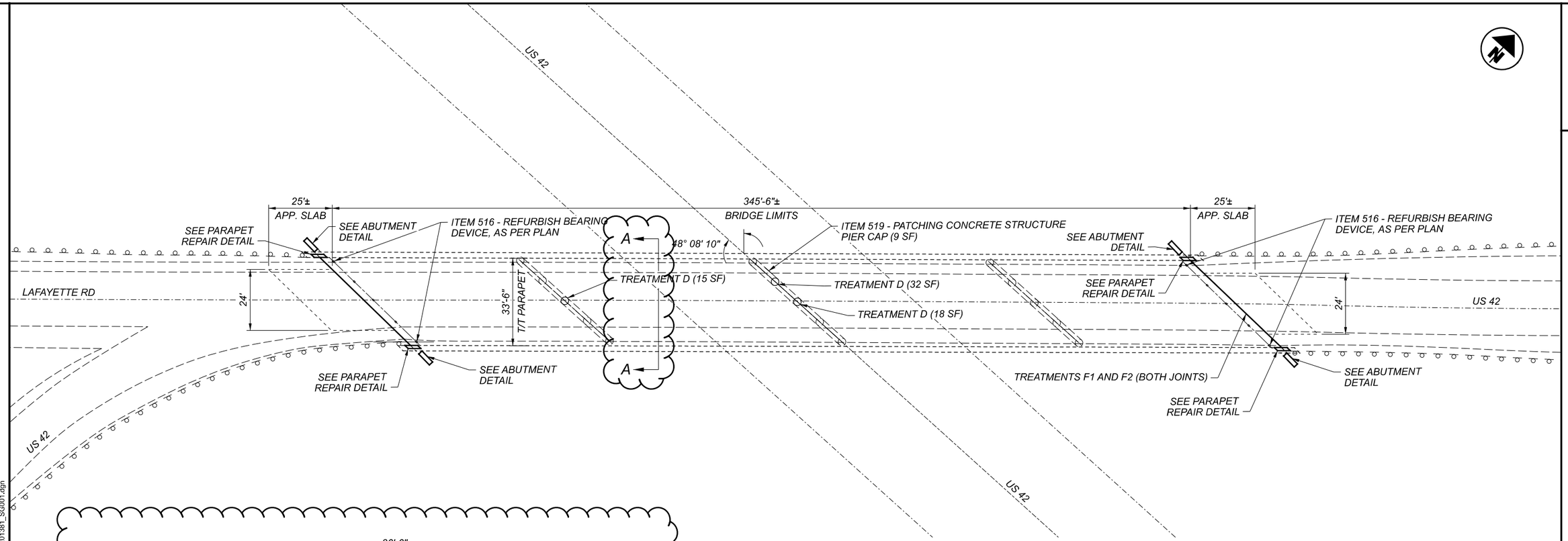
ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

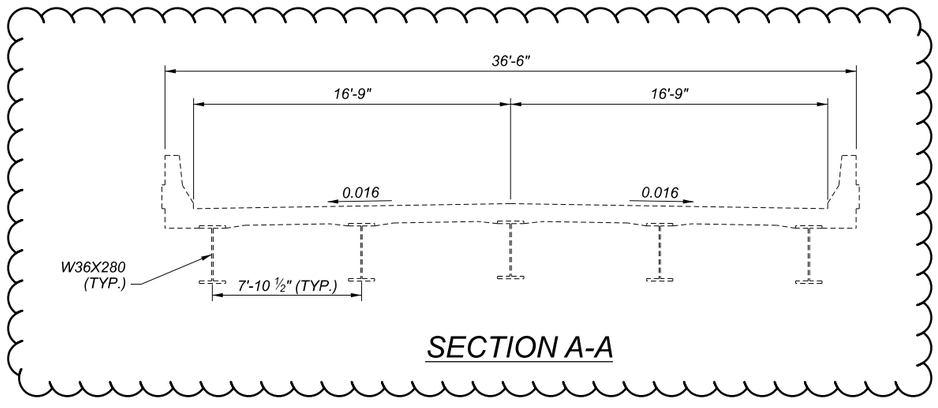
HORIZONTAL SCALE IN FEET
0 10 20 40

# STRUCTURE DETAILS
## MED-42-5.39 (L/R)
## TWIN STRUCTURES OVER EAST FORK BLACK RIVER

SFN 5201209
SFN 5201233
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER TPG | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 66 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)




## SECTION A-A

NOTES:

1.) REFURBISH BEARINGS #1 AND #5 ON THE REAR ABUTMENT AND #1 AND #5 ON THE FORWARD ABUTMENT.

2.) USE EXTREME CARE WHEN PERFORMING ALL ITEMS THAT REQUIRE ANY REMOVAL OF THE EXISTING STRUCTURE AS TO NOT DAMAGE ANY EXISTING REINFORCING STEEL; THE REINFORCING STEEL IS TO REMAIN IN PLACE AND NOT BE REMOVED IN THE REMOVAL PROCESS. SHOULD ANY REINFORCING STEEL BE DAMAGED AS A RESULT OF ANY WORK PERFORMED, REPAIR OR REPLACE THE DAMAGED AREA AS DIRECTED.

3.) PERFORM PIER COLUMN REPAIRS USING ITEM 519 - PATCHING CONCRETE STRUCTURE. SEAL PIER COLUMN REPAIR AREAS WITH A GRAY SEALER TO MATCH THE EXISTING SEALER ON THE PIER COLUMNS USING ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).

4.) SEE SHEET 2 FOR ABUTMENT AND PARAPET REPAIR DETAILS.

5.) TRIM EXISTING BEAM ENDS TO PROVIDE 3" CLEARANCE FROM THE EXISTING BACKWALL FOR THE EXPANSION JOINT REPLACEMENT, USING ITEM 513 - TRIMMING OF BEAM END.

| ITEM | QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|
| 202 | 12 | CY | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN |
| 511 | 7 | CY | CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION) |
| 511 | 5 | CY | CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION) |
| 512 | 8 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |
| 513 | 10 | EACH | TRIMMING OF BEAM END |
| 516 | 164 | FT | STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN |
| 516 | 72 | FT | JOINT SEALER |
| 516 | 4 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN |
| 516 | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN |
| 519 | 141 | SF | PATCHING CONCRETE STRUCTURE |

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

HORIZONTAL SCALE IN FEET
0 10 20 40

# STRUCTURE DETAILS
## MED-42-7.14
## STRUCTURE OVER MED-42-0687

SFN 5201381
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER KRB | CHECKER XXX
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 69 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Details1 PAPERSIZE: 17x11 (in.) DATE: 10/29/2021 TIME: 2:07:29 PM USER: ksilay
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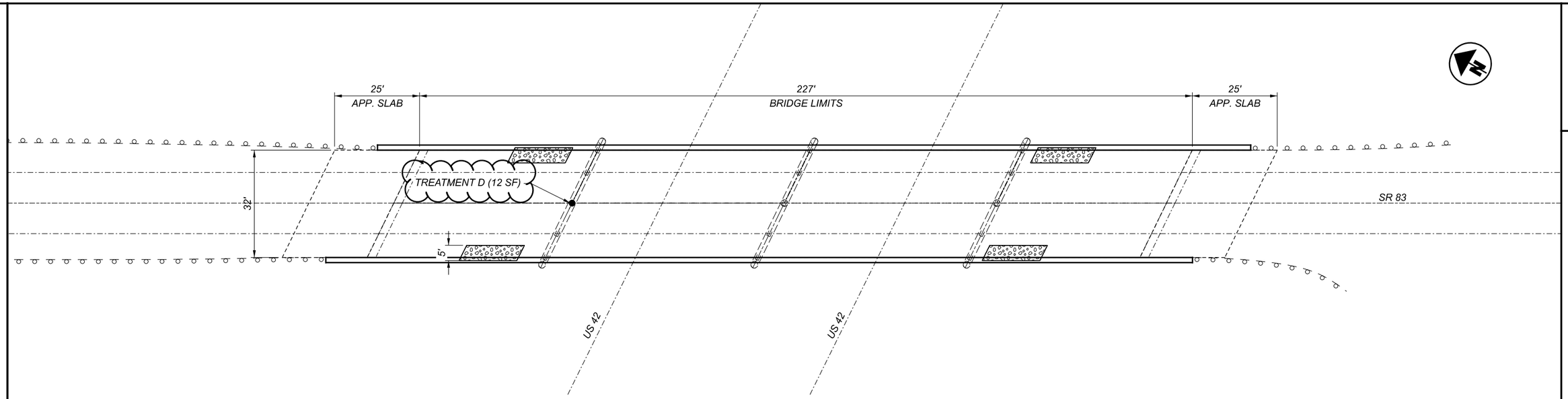
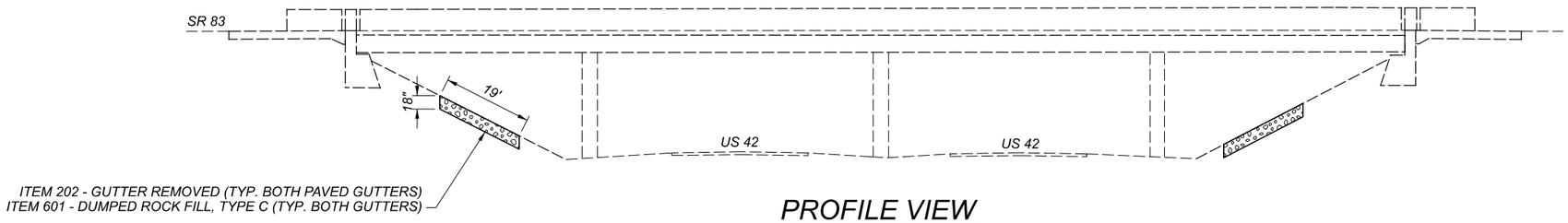



PLAN VIEW




PROFILE VIEW

EXISTING GUARDRAIL NOT SHOWN

| ITEM | QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|
| 202 | 76 | FT | GUTTER REMOVED |
| 519 | 12 | SF | PATCHING CONCRETE STRUCTURE |
| 601 | 21 | CY | DUMPED ROCK FILL, TYPE C |

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

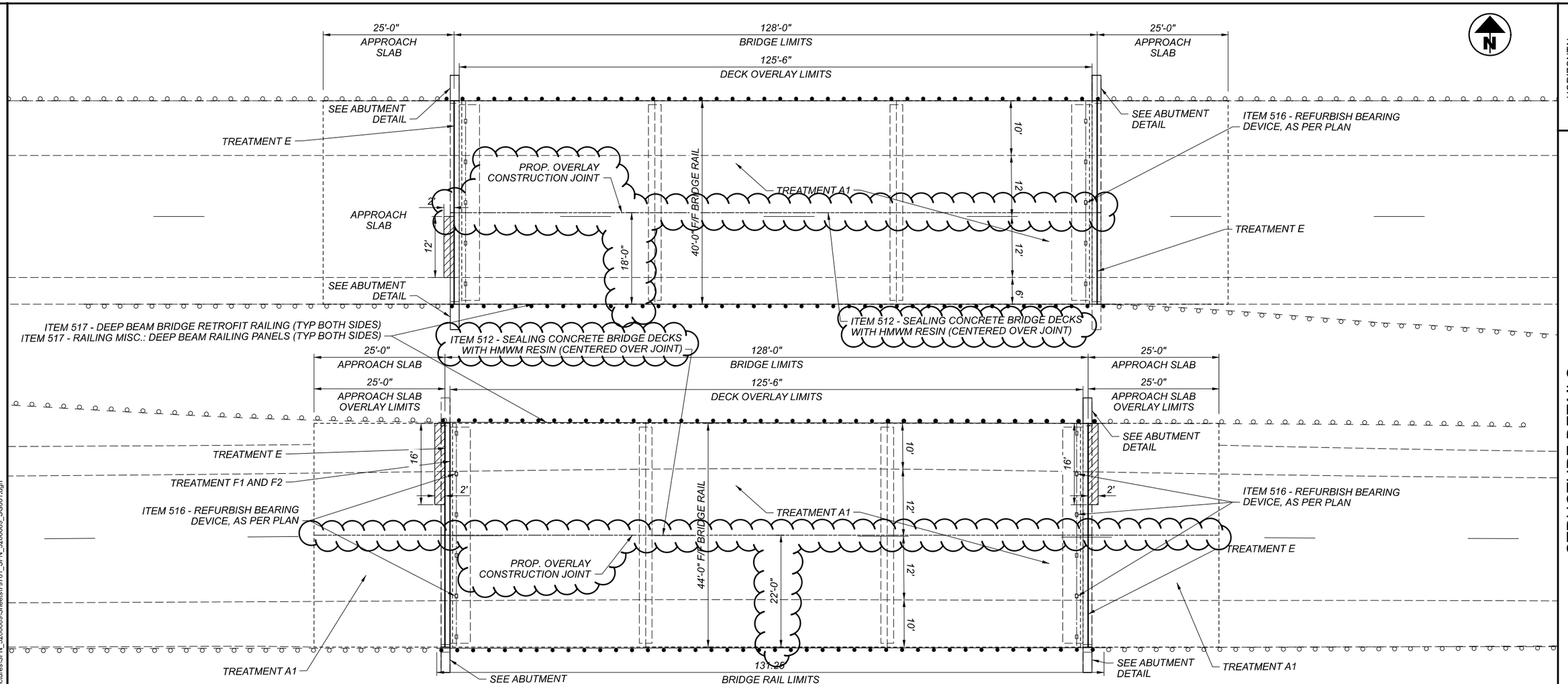
HORIZONTAL SCALE IN FEET
0 7.5 15 30

STRUCTURE DETAILS
MED-83-4.34
STRUCTURE OVER US-42

SFN 5205220
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER TPG | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 1
SHEET 71 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: DETAIL SHEET 1 PAPERSIZE: 17x11 (in.) DATE: 10/28/2021 TIME: 11:04:04 AM USER: ksalby
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Structures\SFN_5205220\Sheets\79761_SFN_5205220_SG001.dgn




ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK, TYPE B

NOTES:

1.) MED-224-1276L:
REFURBISH BEARING #3 ON THE FORWARD ABUTMENT.

MED-224-1276R:
REFURBISH BEARINGS #2 AND #5 ON THE REAR ABUTMENT AND #2, #3 AND #5 ON THE FORWARD ABUTMENT.

2.) SEE SUPPLEMENTAL SPECIFICATION 848 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET.

3.) PERFORM ALL JOINT SEALING AFTER ALL REPAIR WORK HAS BEEN COMPLETED.

4.) USE EXTREME CARE WHEN PERFORMING ALL ITEMS THAT REQUIRE ANY REMOVAL OF THE EXISTING STRUCTURE AS TO NOT DAMAGE ANY EXISTING REINFORCING STEEL; THE REINFORCING STEEL IS TO REMAIN IN PLACE AND NOT BE REMOVED IN THE REMOVAL PROCESS. CLEAN EXPOSED REINFORCING STEEL AS PER ITEM 848 WHERE APPLICABLE AND DEEMED NECESSARY BY THE ENGINEER. SHOULD ANY REINFORCING STEEL BE DAMAGED AS A RESULT OF ANY WORK PERFORMED, REPAIR OR REPLACE THE DAMAGED AREA AS DIRECTED.

5.) ACCORDING TO CURRENT CORING DATA, THE TOP MAT OF THE EXISTING REINFORCING STEEL IS 3 INCHES BELOW THE CURRENT SURFACE.

6.) SEE SHEET 2 FOR ABUTMENT AND BEAM/JOINT DETAILS.

7.) PREPARE A SECTION 2 FEET WIDE OVER THE LENGTH OF THE BRIDGE DECK FOR STRUCTURE MED-224-1276L AND OVER THE LENGTH OF THE BRIDGE DECK AND APPROACH SLABS FOR STRUCTURE MED-224-1276R, CENTERED OVER THE PROPOSED CONSTRUCTION JOINT, AND SEAL USING ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN.

| ITEM | MED-224-12.76 L | MED-224-12.76 R | TOTAL QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|---|---|
| 202 | | 8 | 8 | CY | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN |
| 202 | 80 | 88 | 168 | FT | REMOVAL, MISC.: JOINT SEALER |
| 511 | | 2 | 2 | CY | CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION) |
| 511 | | 3 | 3 | CY | CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION) |
| 511 | | 3 | 3 | CY | CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING |
| 512 | 28 | 40 | 68 | SY | SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN |
| 516 | | 44 | 44 | FT | STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN |
| 516 | 80 | 88 | 168 | FT | JOINT SEALER |
| 516 | 1 | 5 | 6 | EACH | REFURBISH BEARING DEVICE, AS PER PLAN |
| 516 | LS | LS | LS | | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN |
| 517 | 262.5 | 262.5 | 525 | FT | DEEP BEAM BRIDGE RETROFIT RAILING |
| 517 | 262.5 | 262.5 | 525 | FT | RAILING MISC.: DEEP BEAM RAILING PANELS |
| 519 | 21 | | 21 | SF | PATCHING CONCRETE STRUCTURE |
| 848 | 558 | 858 | 1,416 | SY | MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75" THICK) |
| 848 | 558 | 858 | 1,416 | SY | SURFACE PREPARATION USING HYDRODEMOLITION |
| 848 | 17 | 27 | 44 | CY | MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN |
| 848 | 31 | 48 | 79 | SY | HAND CHIPPING |
| 848 | LS | LS | LS | | TEST SLAB |
| 848 | 2 | 5 | 7 | CY | FULL DEPTH REPAIR |
| 848 | 558 | 858 | 1,416 | SY | EXISTING CONCRETE OVERLAY REMOVED (1.25" NOMINAL THICKNESS) |
| 848 | 313 | 481 | 794 | SY | REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY |
| SPECIAL | 3 | 7 | 10 | SY | PATCHING CONCRETE BRIDGE DECK, TYPE B |

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

HORIZONTAL SCALE IN FEET
0 5 10 20

# STRUCTURE DETAILS
## MED-224-12.76 (L/R)
## TWIN STRUCTURES OVER CAMEL CREEK

SFN 5206669
SFN 5206693
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER KRB | CHECKER XXX
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 72 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Details1 PAPERSIZE: 17x11 (in.) DATE: 10/29/2021 TIME: 11:28:01 AM USER: ksalley
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Structures\SFN_5206669\Sheets\79761_SFN_5206669_SG001.dgn