

GENERAL NOTES

UTILITIES

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

CITY OF CONNEAUT PUBLIC WORKS
(BRIDGE STREET LIGHTING)
285 16TH STREET
CONNEAUT, OHIO 44030
(440) 593-7430
ATTN: JOE DIBELL

THE ILLUMINATING COMPANY
6896 MILLER RD., SUITE 101
BRECKSVILLE, OH 44141
(440) 546-8706
ATTN: JOHN ZASSICK

GREAT WAVE COMMUNICATIONS
224 STATE ST.
CONNEAUT, OH 44030
(440) 593-7100
ATTN: DON ZAPPITELLI

DOMINION ENERGY OHIO
320 SPRINGSIDE DRIVE, SUITE 320
AKRON, OH 44333
(330) 664-2409
ATTN: BILL SNYDER

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED BY THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.
WORK LIMITS

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

ITEM 201, CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

STRUCTURE PAINTING/SEALING OPERATIONS

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT OR OTHER MATERIALS USED TO REPAIR, CLEAN, PAINT, SEAL OR TREAT ANY STRUCTURE FROM ENTERING CONNEAUT CREEK AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

CONSTRUCTION NOISE

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

ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M

THE USE OF VIBRATORY COMPACTION EQUIPMENT IS PROHIBITED.

703.05 DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

THE USE OF GRAVEL FOR COARSE VIRGIN AGGREGATE IS PROHIBITED.

IN ADDITION TO THE GUTTER SEALING REQUIREMENTS SPECIFIED ON SCD BP-3.1 AND IN 401.15, TH CONTRACTOR SHALL SEAL THE FOLLOWING LOCATIONS:

- ALL CASTINGS INCLUDING BUT NOT LIMITED TO MONUMENTS, MANHOLES, WATER VALVES, CATCH BASINS, CURB INTLETS.
- BUTT JOINTS AND FEATHER JOINTS INCLUDING BRIDGE APPROACHES.
- BUTT JOINT BETWEEN PAVED SHOULDER AND DRIVEWAY ASPHALT AND TAPERED EDGE WHEN FEATHERING TO AN EXISTING ASPHALT DRIVEWAY.
- PERIMETER OF ALL PAVEMENT REPAIRS OR OTHER ASPHALT INLAYS WHEN PAVEMENT REPAIRS/INLAYS ARE NOT OVERLAID WITH AN ASPHALT CONCRETE SURFACE COURSE.

THE MATERIAL USED SHALL BE A CERTIFIED 702.01 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2 INCHES.

ANY ADDITIONAL COSTS ASSOCIATED WITH THE WORK IDENTIFIED IN THIS NOTE SHALL BE INCLUDED IN THE APPROPRIATE ASPHALT CONCRETE SURFACE COURSE ITEM OF WORK.

ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) AS PER PLAN, PG64-22

THE USE OF VIBRATORY COMPACTION EQUIPMENT IS PROHIBITED.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

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

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

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

STREAM AVOIDANCE - CONNEAUT CREEK

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR IMPACT CONNEAUT CREEK. NO EXCAVATION, GRADING OR FILLING OPERATIONS SHALL BE PREFORMED IN CONNEAUT CREEK. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE CONSTRUCTION EQUIPMENT AND/OR MATERIALS IN CONNEAUT CREEK.

ITEM 606 - MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN:

THIS ITEM SHALL CONSIST OF FURNISHING TERMINAL ASSEMBLIES WITH RADII SHOWN ON SHEET 11 OF 24.

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CALCULATED
SAT
CHECKED
EJT

GENERAL NOTES

ATB-US-20-21.86
CENTER ROAD

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| SHEET NUM. | | | | | | | | | | | PART. | ITEM | ITEM | GRAND | UNIT | DESCRIPTION | SEE SHEET NO. | CALCULATED | SAT | CHECKED | EJT | | | |
|------------|----|----|---|---|----|--|--|--|--|--|-----------|---------|----------|-------|------|--|---------------|------------|-----|---------|-----|--|--|--|
| | 4 | 6 | 8 | 9 | 12 | | | | | | 02/BRF/BR | | EXT | TOTAL | | | | | | | | | | |
| | LS | | | | | | | | | | LS | 201 | 11000 | LS | | ROADWAY | | | | | | | | |
| | | | | | | | | | | | 27 | 202 | 23000 | 27 | SY | CLEARING AND GRUBBING | | | | | | | | |
| | | | | | | | | | | | 225 | 202 | 38000 | 225 | FT | PAVEMENT REMOVED | | | | | | | | |
| | | | | | | | | | | | 3 | 202 | 42000 | 3 | EACH | GUARDRAIL REMOVED | | | | | | | | |
| | | | | | | | | | | | 11 | 203 | 10000 | 11 | CY | ANCHOR ASSEMBLY REMOVED, TYPE A | | | | | | | | |
| | | | | | | | | | | | 48 | 204 | 10000 | 48 | SY | EXCAVATION | | | | | | | | |
| | | | | | | | | | | | 63 | 606 | 15050 | 63 | FT | SUBGRADE COMPACTION | | | | | | | | |
| | | | | | | | | | | | 3 | 606 | 26150 | 3 | EACH | GUARDRAIL, TYPE MGS | | | | | | | | |
| | | | | | | | | | | | 2 | 606 | 35002 | 2 | EACH | ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016 | | | | | | | | |
| | | | | | | | | | | | 2 | 606 | 35003 | 2 | EACH | MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 | | | | | | | | |
| | | | | | | | | | | | 2 | 606 | 35003 | 2 | EACH | MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN | | | | | 4 | | | |
| | | | | | | | | | | | 1,000 | 832 | 30000 | 1,000 | EACH | EROSION CONTROL | | | | | | | | |
| | | | | | | | | | | | | | | | | PAVEMENT | | | | | | | | |
| | | | | | | | | | | | 11 | 304 | 20000 | 11 | CY | AGGREGATE BASE | | | | | | | | |
| | | | | | | | | | | | 5 | 407 | 10000 | 5 | GAL | TACK COAT | | | | | | | | |
| | | | | | | | | | | | 72 | 409 | 30000 | 72 | FT | SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS | | | | | | | | |
| | | | | | | | | | | | 2 | 441 | 50101 | 2 | CY | ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M | | | | | 4 | | | |
| | | | | | | | | | | | 5 | 441 | 50301 | 5 | CY | ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN, PG64-22 | | | | | 4 | | | |
| | | | | | | | | | | | | | | | | STRUCTURE OVER 20 FOOT SPAN (SFN 0461296) | | | | | | | | |
| | | | | | | | | | | | 23 | 202 | 22901 | 23 | SY | APPROACH SLAB REMOVED, AS PER PLAN | | | | | 12 | | | |
| | | | | | | | | | | | 405 | 202 | 23501 | 405 | SY | WEARING COURSE REMOVED, AS PER PLAN | | | | | 12 | | | |
| | | | | | | | | | | | 325 | 202 | 38500 | 325 | FT | BRIDGE RAILING REMOVED | | | | | | | | |
| | | | | | | | | | | | 52 | 407 | 10000 | 52 | GAL | TACK COAT | | | | | | | | |
| | | | | | | | | | | | 15 | 441 | 50101 | 15 | CY | ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M | | | | | 12 | | | |
| | | | | | | | | | | | 27 | 441 | 50301 | 27 | CY | ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN, PG64-22 | | | | | 12 | | | |
| | | | | | | | | | | | 50 | 509 | 20000 | 50 | LB | REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL | | | | | | | | |
| | | | | | | | | | | | 104 | 512 | 10100 | 104 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | | | | | | | | |
| | | | | | | | | | | | 410 | 512 | 33010 | 410 | SY | TYPE 3 WATERPROOFING | | | | | | | | |
| | | | | | | | | | | | 24 | 516 | 31000 | 24 | FT | JOINT SEALER | | | | | | | | |
| | | | | | | | | | | | 325 | 517 | 72307 | 325 | FT | RAILING (DEEP BEAM RAIL WITH STEEL TUBULAR BACKUP AND TYPE 2 STEEL POSTS), AS PER PLAN | | | | | 12 | | | |
| | | | | | | | | | | | 373 | SPECIAL | 51822300 | 373 | FT | STEEL DRIP STRIP | | | | | 22 | | | |
| | | | | | | | | | | | 68 | 519 | 11100 | 68 | SF | PATCHING CONCRETE STRUCTURE | | | | | | | | |
| | | | | | | | | | | | 23 | 526 | 25001 | 23 | SY | REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN | | | | | 12 | | | |
| | | | | | | | | | | | 249 | SPECIAL | 53000600 | 249 | SF | STRUCTURES: STONE MASONRY REPAIR | | | | | 13 | | | |
| | | | | | | | | | | | 2 | SPECIAL | 53001100 | 2 | CY | STRUCTURES: STONE MASONRY REPLACEMENT | | | | | 13 | | | |
| | | | | | | | | | | | 712 | SPECIAL | 53001300 | 712 | FT | STRUCTURES: MASONRY REPOINTING | | | | | 13 | | | |
| | | | | | | | | | | | | | | | | MAINTENANCE OF TRAFFIC | | | | | | | | |
| | | 5 | | | | | | | | | 5 | 410 | 12000 | 5 | CY | TRAFFIC COMPACTED SURFACE, TYPE A OR B | | | | | | | | |
| | | LS | | | | | | | | | LS | 614 | 12420 | LS | | DETOUR SIGNING | | | | | | | | |
| | | 5 | | | | | | | | | 5 | 614 | 13000 | 5 | CY | ASPHALT CONCRETE FOR MAINTAINING TRAFFIC | | | | | | | | |
| | | 4 | | | | | | | | | 4 | 614 | 18601 | 4 | SNMT | PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN | | | | | 6 | | | |
| | | 10 | | | | | | | | | 10 | 616 | 10000 | 10 | MGAL | WATER | | | | | | | | |
| | | LS | | | | | | | | | LS | 614 | 11000 | LS | | INCIDENTALS | | | | | | | | |
| | | | | | | | | | | | LS | 623 | 10000 | LS | | MAINTAINING TRAFFIC | | | | | | | | |
| | | | | | | | | | | | LS | 623 | 10000 | LS | | CONSTRUCTION LAYOUT STAKES AND SURVEYING | | | | | | | | |
| | | | | | | | | | | | LS | 624 | 10000 | LS | | MOBILIZATION | | | | | | | | |

GENERAL SUMMARY

**ATB-US-20-21.86
CENTER ROAD**

| REF NO. | SHEET NO. | STATION TO STATION | | SIDE | 202 | 202 | 203 | 606 | 606 | 606 | 606 |
|-----------------------------------|-----------|--------------------|----------|-------|-------------------------|--|------------------|---------------------------|---|---|---|
| | | FROM | TO | | GUARDRAIL REMOVED FT | ANCHOR ASSEMBLY REMOVED, TYPE A EACH | EXCAVATION CY | GUARDRAIL, TYPE MGS FT | ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016 EACH | MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 EACH | MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN EACH |
| R1 | 11 | 9+62 | 9+88 | LT | | 1 | | | | | |
| R2 | 11 | 9+88 | 10+25.5 | LT | 37.5 | | | | | | |
| R3 | 11 | 11+88 | 12+50.5 | LT | 62.5 | | | | | | |
| R4 | 11 | 12+50.5 | 12+77.5 | LT | | 1 | | | | | |
| R5 | 11 | 9+50.5 | 10+25.5 | RT | 75 | | | | | | |
| R6 | 11 | 11+88 | 12+38 | RT | 50 | | | | | | |
| R7 | 11 | 12+38 | 12+64 | RT | | 1 | | | | | |
| GR-1 | 11 | 9+48.5 | 10+00.5 | LT | | | | | 1 | | |
| GR-2 | 11 | 10+00.5 | 10+25.5 | LT | | | | | | | 1 |
| GR-3 | 11 | 11+88 | 12+13 | LT | | | | | | | 1 |
| GR-4 | 11 | 12+13 | 12+25.50 | LT | | | | 12.5 | | | |
| GR-5 | 11 | 12+25.50 | 12+78 | LT | | | | 1 | | | |
| GR-6 | 11 | 9+50.5 | 10+00.5 | RT | | | | 50 | | | |
| GR-7 | 11 | 10+00.5 | 10+25.5 | RT | | | | | | 1 | |
| GR-8 | 11 | 11+88 | 12+13 | RT | | | | | | 1 | |
| GR-9 | 11 | 12+13 | 12+65 | RT | | | | | 1 | | |
| EXC-1 | 11 | 11+79.29 | 11+87.29 | LT/RT | | | 4 | | | | |
| EXC-2 | 11 | 11+87.29 | 11+97.29 | LT/RT | | | 7 | | | | |
| TOTALS CARRIED TO GENERAL SUMMARY | | | | | 225 | 3 | 11 | 63 | 3 | 2 | 2 |

NOTE: STATIONS ON THIS TABLE ARE REFERENCED FROM THE FIRST AND LAST BRIDGE GUARDRAIL POSTS ON A BOX BEAM. THE ANCHOR BOLTS FOR THESE POSTS ARE BEING INCORPORATED IN THE NEW WORK. (SEE GENERAL PLAN SHEET 10 OF 24 FOR THESE STATIONS)

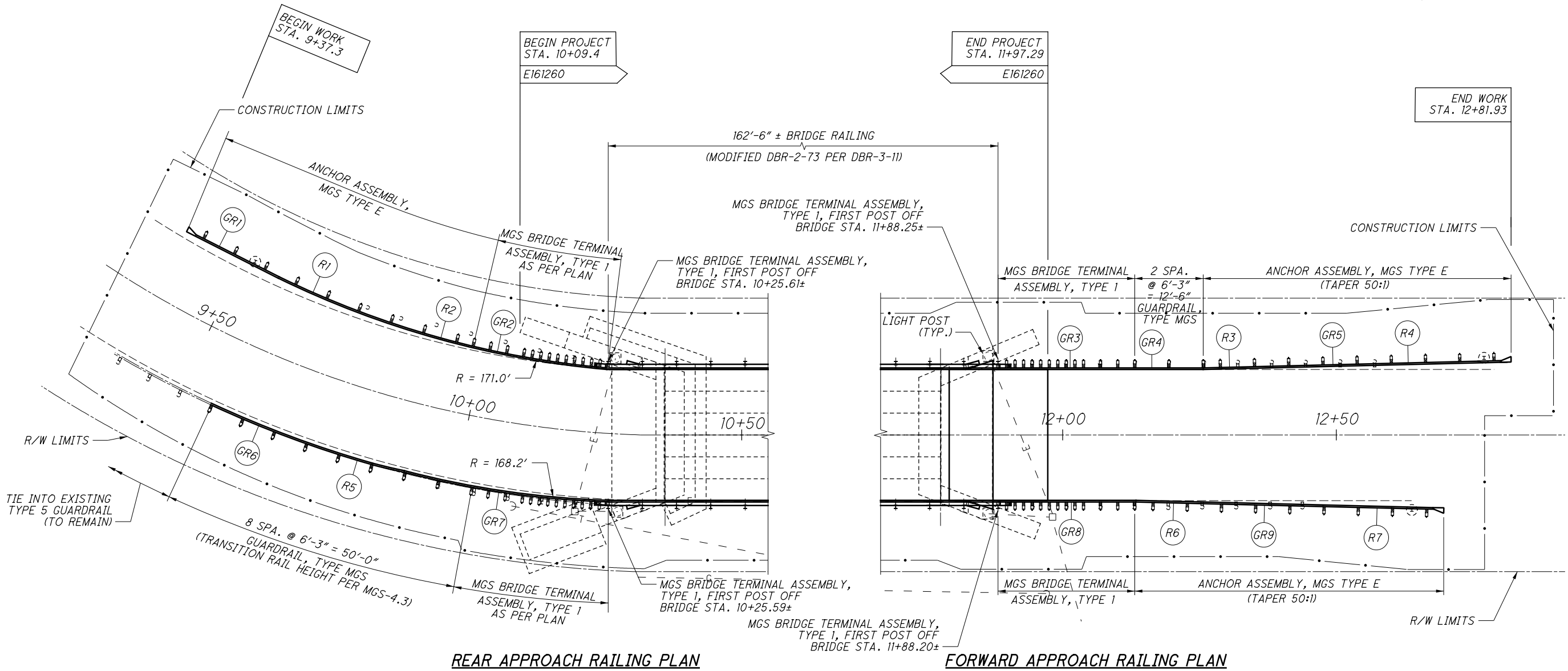
ITEM 203 - EXCAVATION

EXC-1: FROM STA. 11+79.29 TO STA. 11+87.29 = 8.0'
 AREA= 0.5 X (24.0' + 27.2') X 8.0' = 204.8 SF
 VOLUME= 204.8 SF X 0.5' = 102.4 CF ÷ 27 = 4 CY

EXC-2: FROM STA. 11+87.29 TO STA. 11+97.29 = 10.0'
 AREA= 10.0' X 24.0' = 240.0 SF
 VOLUME= 240.0 SF X 0.75' = 180.0 CF ÷ 27 = 7 CY

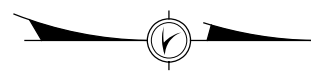
EXCAVATION TOTAL= 4 CY + 7 CY = 11 CY

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REAR APPROACH RAILING PLAN

FORWARD APPROACH RAILING PLAN



| | | | |
|--|----------|----------------|----------------------------------|
| DESIGN AGENCY GT your design partner engineers consultants planners XXX | REVIEWED | DATE | STRUCTURE FILE NUMBER 0461296 |
| | TAB | 11/13/20 | |
| DRAWN | SAT | CHECKED | REVISIONS |
| XXX | XXX | JPR | XXX |
| APPROACH ROADWAY GUARDRAIL POST LAYOUT | | | |
| BRIDGE ATB-CENTER-0000 REHABILITATION OVER CONNEAUT CREEK | | | |
| ATB-US-20-21.86 | | PID No. 989903 | |
| 2 / 15 | | 11 / 24 | |