

PLAN ABBREVIATIONS

THE FOLLOWING LIST OF ABBREVIATION DEFINITIONS IS USED FOR THIS PLAN SET:

<u>ABBREVIATION</u>	<u>DESCRIPTION</u>
ATG	ADJUSTED TO GRADE
AA	ANCHOR ASSEMBLY
APP	AS PER PLAN
ASPH.	ASPHAL T
AVE.	A VENUE
B	BASELINE
ВМ	BENCH MARK
BL VD.	BOULEVARD
BTA	BRIDGE TERMINAL ASSEMBLY
СВ	CATCH BASIN
<u>£</u>	CENTERLINE
COMM.	COMMERCIAL
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT'D	CONTINUED
CORP.	CORPORATION
CMP	CORRUGATED METAL PIPE
CU YD	CUBIC YARD
CI CS	COMPINED SEWER
CS DIST.	COMBINED SEWER DISTANCE
DND	DO NOT DISTURB
DR.	DRIVE/DRIVEWAY
EA.	EACH
EDA	EARTH DISTURBED AREA
EB	EASTBOUND
EL EL	EDGE LINE
EOI	END OF INFORMATION
EORI	END OF RECORDED INFORMATION
EOP	EDGE OF PAVEMENT
EOS	EDGE OF SHOULDER
ELEC.	ELECTRIC
ELEV.	ELEVATION
EST.	ESTIMATE/ESTIMATED
EXC.	EXCAVATION
EX.	EXISTING
FT.	FEET
FH	FIRE HYDRANT
E	FLOW LINE
FM	FORCE MAIN
FSAN	FORCE MAIN SANITARY
GR	GUARDRAIL
HW	HEADWALL
HWY.	HIGHWAY
IN.	INCHES
INT.	INTERSECTION
INV.	INVERT
IR ITC	INTERSTATE ROUTE INTELLIGENT TRANSPORTATION
ITS	
I ON	SYSTEMS LENGTH OF NEED
LON LIN.	LINEAR
MOT	MAINTENANCE OF TRAFFIC
MH	MANHOLE MANHOLE
MAX.	MAXIMUM
MGS	MIDWEST GUARDRAIL SYSTEM
MI.	MILE(S)
MIN.	MINIMUM
MO.	MONTH(S)
N N	NORTH
NB	NORTHBOUND
NE	NORTHEAST
NW	NORTHWEST
NO.	NUMBER
N.T.S.	NOT TO SCALE
	OVERHEAD
OVHD.	
OVHD. PVMT	PAVEMENT

PLAN ABBREVIATIONS (CONT'D)

ADDDEVIATION	DESCRIPTION
<u>ABBREVIATION</u>	DESCRIPTION
PCB	PORTABLE CONCRETE BARRIER
PG	PROFILE GRADE
PGL PE	PROFILE GRADE LINE
_	PROPERTY LINE
PROP.	PROPOSED STATE OF THE PROPOSED
QL	(SUE) QUALITY LEVEL
RAD.	RADIUS
REF.	REFERENCE
REINF.	REINFORCED
RMVD.	REMOVED
RES.	RESIDENTIAL
RD.	ROAD
RCP	ROCK CHANNEL PROTECTION
RNDG.	ROUNDING
RTG	RECONSTRUCTED TO GRADE
SAN.	SANITARY
SEC.	SECTION
SHT.	SHEET
SHLDR.	SHOULDER
S	SOUTH
SB	SOUTHBOUND
SE	SOUTHEAST
SR	STATE ROUTE
SW	SOUTHWEST
SQ FT	SQUARE FEET
SQ YD	SQUARE YARD
STD.	STANDARD
STA.	STATION
ST.	STREET
STM	STORM
STRUCT.	STRUCTURE
TELE.	TELEPHONE
TEMP.	TEMPORARY
TBR	TO BE REMOVED
TBRR	TO BE REMOVED AND RELOCATED
TOT.	TOTAL
TWP.	TOWNSHIP
TYP.	TYPICAL
US	UNITED STATES ROUTE
VAR.	VARIABLE/VARIES
VC	VERTICAL CURVE
V.C.	VERTICAL CLEARANCE
Vdes	DESIGN SPEED
WM	WATER MAIN
WV	WATER VALVE
WB	WESTBOUND

REFERENCE BALLOONS

(C#)) HORIZONTAL	CURVE	(₽	OR	Q)

HORIZONTAL SPIRAL (₩ OR Ç)

PROPOSED BARRIER ITEM

PROPOSED CURB OR CURB & GUTTER ITEM

PROPOSED GUARDRAIL ITEM

PROPOSED REMOVAL ITEM (ROADWAY RELATED)

PROPOSED PAVEMENT ITEM

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(D#)	PROPOSED	DRAINAGE	ITEM
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PROPOSED REMOVAL ITEM (DRAINAGE RELATED)

EROSION CONTROL

PROPOSED WATER ITEM

ITEM

PROPOSED SAWCUT ITEM

PROPOSED SANITARY

UTILITIES

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

LISTED BELOW ARE THE UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOEGETHER WITH THEIR RESPECTIVE OWNERS

ELECTRIC SOUTH CENTRAL POWER 2780 COONPATH RD NE LANCASTER, OHIO 43130 ATTN: KEVIN CARO (740) 785-6110

ELECTRIC DUKE ENERGY ELECTRIC 2010 DANA AVE CINCINNATI, OHIO 45207 ATTN: SHANE FRHART (513) 508-9609

TELECOMMUNICATIONS CHARTER COMMUNICATIONS 10920 KENWOOD ROAD CICINNATI, OHIO 45242 ATTN: JOSEPH ANGEL (513) 233-5705

TELECOMMUNICATIONS FRONTIER COMMUNICATIONS 241 S. NELSON AVE WILMINGTON, OHIO 45177 ATTN: DAVID LONGWORTH (937) 283-5735

SEWER & WATER VILLAGE OF MT. ORAB P.O. BOX 466 MT. ORAB, OHIO 45154 ATTN: ERÍC STEPHAN (937) 444-2657

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: STATIC GNSS

MONUMENT TYPE: TYPE A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88

GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011) (EPOCH:2010.0000) ELLIPSOID: GRS80 MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE COMBINED SCALE FACTOR: 0.999913057559645 ORIGIN OF COORDINATE SYSTEM: 0.0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

PROPOSED UNDERDRAIN ITEM UNITS ARE IN U.S. SURVEY FEET.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1 AND AT THE LOCATIONS SHOWN IN THE R/W PLANS.

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 8AM AND 10PM, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. 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.

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.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PRIVATE USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION BOUIPMENT, VATYMAXIMUM OPERAYING HEIGHTY, SHAYLLYYYY EXCEED A HEIGHT OF 100 FT FOR WORK NEAR THE BRIDGE OR 50 FT ELSEWHERE. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT REQUIREMENT, COORDINATION WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. FOR PRIVATE USE AIRPORTS OR HELIPORTS, COORDINATE WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL COORDINATION IS MET AND DOCUMENTATION HAS BEEN FURNISHED TO THE PROJECT ENGINEER. IF COORDINATION IS NOT OBTAINED, THEN THE PROJECT ENGINEER WILL HAVE THE AUTHORITY TO PROVIDE RESTRICTIONS AS REQUIRED.

MERCY MT. ORAB HOSPITAL ROBERT FRANCIS 154 HFAI TH PARTNERS CIR MOUNT ORAB, OH, 45154-8611 (513) 585-5036

OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF AVIATION 2829 W. DUBLIN-GRANVILLE RD. COLUMBUS, OH 43235 (614) 387-2356

THE FOLLOWING AERONAUTICAL STUDIES HAVE BEEN FILED WITH THE FAA.

2023-AGL-29-OE 2023-AGL-30-OE 2023-AGL-31-0E 2023-AGL-32-OF 2023-AGL-1155-OE 2023-AGL-1315-OE

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ROADWAY NOTES

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

EXISTING UTILITIES AND SUBGRADE TREATMENT

THE CONTRACTOR SHALL VERIFY THE DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AND SEWERS WITHIN THE PROPOSED PAVEMENT LIMITS TO ENSURE NO UTILITIES OR SEWERS ARE IMPACTED OR DAMAGED DURING CEMENT STABILIZATION AND/OR UNDERCUT ACTIVITIES. THE CONTRACTOR SHALL LOCATE AND TAKE CARE TO FLAG ALL EXISTING UTILITIES WITHIN THE PROPOSED PAVEMENT LIMITS PRIOR TO PERFORMING CEMENT STABILIZATION OR UNDERCUT, AS DESIGNATED IN THE PLANS. SHOULD THE CONTRACTOR ENCOUNTER A POTENTIAL UTILITY CONFLICT, THE CONTRACTOR SHALL NOTIFY PROJECT ENGINEER AND STOP CEMENT STABILIZATION/UNDERCUT ACTIVITIES AT THE CONFLICT LOCATION IMMEDIATELY.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED, HOWEVER THERE MAY BE ADDITIONAL TREES OF THESE SIZES WITHIN HEAVILY WOODED AREAS. UNLESS SPECIFICALLY MARKED IN THE PLANS AS DO NOT DISTURB OR TO REMAIN, ALL VEGETATION AND TREES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND PAID FOR UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING.

SIZES NO. TREES 18" 15

SOME TREES HAVE BEEN CUT ALREADY WITHIN THE PROJECT AREA.
AN OUTLINE OF THE AREA WITHIN THE PROJECT WHERE THE TREES)
HAVE BEEN CUT IS SHOWN ON SHEET 2. FOR THE TREES THAT
HAVE BEEN CUT, ONLY THE TOPS WERE CUT. BOTH THE REMAINING
TOPS AND STUMPS SHALL BE REMOVED AND PAID FOR UNDER THE
LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING.

UNSUITABLE SUBGRADES

ALTHOUGH GLOBAL LIME STABILIZATION IS PROPOSED FOR THE PROJECT, THERE ARE LOCATIONS THAT MAY FAIL THE PROOF ROLL DUE TO THE LIME NOT BEING COMPATIBLE WITH A-4b (SILT) SOIL, AND THEREFORE NOT PROVIDE ADEQUATE STABILIZATION. THE FOLLOWING AREAS HAVE BEEN IDENTIFIED AS HAVING A HIGHER PROBABILITY OF THIS OCCURRING:

RAMP NE - STA. 612+00 TO STA. 615+00 RAMP SE - STA. 811+00 TO STA. 814+00 HOMAN WAY - STA. 331+00 TO 337+00

IF THE PROOF ROLL DOES FAIL, THE LIMITS OF THE FAILED PROOF ROLL SHALL BE UNDERCUT TO A DEPTH OF 36 INCHES WITH ITEM 204 GEOTEXTILE FABRIC PLACED AT THE BASE OF THE EXCAVATION AND BACK FILLED WITH ITEM 204 GRANULAR MATERIAL TYPE B OR C. THE FAILED PROOF ROLL AND FINAL LIMITS OF UNDERCUT SHALL BE APPROVED BY THE ENGINEER. THE FOLLOWING QUANTITIES ARE PROVIDED AS A CONTINGENCY SHOULD THIS OCCUR:

ITEM 204 - EXCAVATION OF SUBGRADE 2,500 CY ITEM 204 - GRANULAR EMBANKMENT, AS PER PLAN 2,500 CY ITEM 204 - GEOTEXTILE FABRIC 3,500 SY

ITEM 203 EMBANKMENT, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS SECTION 203, EMBANKMENT AT BRIDGE APPROACHES SHALL BE PLACED AND COMPACTED IN 6" LIFTS. THIS REQUIREMENT PERTAINS TO THE FOLLOWING LIMITS:

BRUCE LUNSFORD WAY STA. 411+95.43 TO STA. 412+33.53 BRUCE LUNSFORD WAY STA. 414+32.00 TO STA. 415+01.93

PAYMENT FOR PLACING THE EMBANKMENT AS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 203- EMBANKMENT, AS PER PLAN

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

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.

ITEM 617 - COMPACTED AGGREGATE

THE FOLLOWING ESTIMATED QUANTITY OF ITEM 617 - COMPACTED AGGREGATE HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE TO FILL ANY LOW BERM AREAS AS DESIGNATED BY THE ENGINEER.

ITEM 617 - COMPACTED AGGREGATE

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 21 HOURS

SHEETING & BRACING

ANY SHEETING AND BRACING USED BY THE CONTRACTOR AND NOT OTHERWISE CALLED FOR IN THE PLANS SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. NO SEPARATE PAYMENT SHALL BE MADE FOR SHEETING AND BRACING. AT ALL TIMES THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE IN A MANNER THAT IS SAFE TO ALL WORKERS AND THE GENERAL TRAVELING PUBLIC. ALL OSHA REQUIREMENTS SHALL BE UPHELD AND SOUND SAFETY PRACTICES SHALL BE EXERCISED AT ALL TIMES. REMOVAL OF SHEETING AND BRACING ITEMS UPON COMPLETION OF WORK WILL BE REQUIRED AS DIRECTED BY ODOT REPRESENTATIVES.

EXISTING STRUCTURE REMOVED

THE EXISTING STRUCTURE TO BE REMOVED ALONG HOMAN WAY NEAR THE PROPOSED 20×4 BOX CULVERT (STA. 308+90 LT) IS A 15-FOOT SPAN × 10-FOOT WIDE CONCRETE SLAB WITH ABUTMENTS. ENTIRE STRUCTURE SHALL BE REMOVED AND DISPOSED OF UNDER THE LUMP SUM BID PRICE OF ITEM 202 - STRUCTURE REMOVED AND INCLUDE ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED.

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEFI

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

BILLBÖARDS'

150 CY

FOUR BILLBOARDS EXIST ON THE NORTH SIDE OF SR 32 FROM APPRXIMATELY STATION 193+00 LT TO STATION 202+00 LT. THE EXISTING BILLBOARD OWNERS WILL BE REMOVING THESE BILLBOARDS AND ALL ACCESSORIES BY MAY 15, 2023. THE FOUNDATIONS WILL BE REMOVED TO THREE FEET BELOW GRADE. ALL WORK TO BE PERFORMED BY OTHERS.

THE CONSTRUCTION PLANS AND ITEMS HAVE BEEN UPDATED TO REFLECT THIS. THE FINAL RIGHT OF WAY PLANS STILL HAVE THE BILLBOARD IN THE SUMMARY OF ADDITIONAL RIGHT OF WAY TABLE AND CALL THEM OUT IN THE PLAN SHEETS AS TO BE REMOVED.

ITEM 202 - REMOVAL MISC.: PRIVATE SIGN REMOVED

THIS ITEM SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF EXISTING PRIVATE SIGNS, ALONG WITH ANY ASSOCIATED ELECTRICAL FACILITIES AND FOUNDATIONS WITHIN THE CONSTRUCTION LIMITS TO A MINIMUM OF 3 FEET BELOW THE EXISTING GROUND.

PAYMENT FOR THIS ITEM SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH ITEM 202 REMOVAL MISC.: PRIVATE SIGN REMOVED AND SHALL INCLUDE ALL LABOR, MATERIAL AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM AS NOTED.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS DO NOT INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED LEMBANKMENT AREAS AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05

PAVEMENT NOTES

CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. IN ALL CASES, THE PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES INCLUDING THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING

WHERE NEW CONCRETE IS PLACED ADJACENT TO EXISTING CONCRETE, PROVIDE CONTRACTION JOINTS IN THE NEW CONCRETE TO FORM CONTINUOUS JOINTS WITH THOSE IN THE EXISTING CONCRETE. THE MAXIMUM DISTANCE BETWEEN THE JOINTS IN THE NEW CONCRETE ARE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2, IF NECESSARY, ADDITIONAL JOINTS MAY BE PROVIDED IN THE NEW CONCRETE AT APPROXIMATELY EQUAL INTERVALS BETWEEN EXISTING JOINTS THAT EXCEED THE MAXIMUM SPACING.

BUTT JOINTS

AT THE START OR END OF ALL FULL-DEPTH PAVEMENT SECTIONS SHOWN IN THE PLANS, CONTRACTOR SHALL PROVIDE A BUTT JOINT PER SCD BP-3.1.

UNDERDRAIN CONNECTIONS AT SAWCUTS

AT THE START, END OR WIDENING OF ALL FULL-DEPTH PAVEMENT SECTIONS SHOWN IN THE PLANS, CONTRACTOR SHALL CONNECT PROPOSED UNDERDRAINS TO EXISTING AND ENSURE POSITIVE DRAINAGE IS MAINTAINED.

ITEM 442 - ANTI-SEGREGATION EQUIPMENT

PROVIDE ANTI-SEGREGATION EQUIPMENT FOR ALL COURSES OF UNIFORM THICKNESS IN ACCORDANCE WITH CMS 401.12. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 441 - ANTI-SEGREGATION EQUIPMENT 1,117 CY
ITEM 442 - ANTI-SEGREGATION EQUIPMENT 3,196 CY

ITEM 897 - PATCHING PLANED SURFACE

THE FOLLOWING ESTIMATED QUANTITY OF 20% OF THE PLANED SURFACE HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR PATCHING PLANED SURFACE AS DESIGNATED BY THE FNGINFFR.

ITEM 254 - PATCHING PLANED SURFACE 15,000SY

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

ITEM 302 - ASPHALT CONCRETE BASE, PG64-22 8 CY

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, 1 CY TYPE 1, (448), PG64-22

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 5 CY 12.5MM, TYPE A (447)

THE ABOVE QUANTITIES ARE BASED ON A 302 THICKNESS OF 6 INCHES FOR LOCAL ROADS AND 9 INCHES FOR SR-32; MATCH THE EXISTING WEARING COURSE DEPTH. PAVEMENT RESTORATION WIDTH SHALL INCLUDE THE MINIMUM REQUIRED TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH. PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

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<u>ITEM 614 - MAINTAINING TRAFFIC</u>

A MINIMUM OF I LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED ON SR32 AND A MINIMUM OF I LANE TWO-WAY VIA TEMPORARY TRAFFIC SIGNAL SHALL BE MAINTAINED ON BROOKS-MALOTT ROAD, BRAPWELL WEST ROAD AND BODMAN ROAD AT ALL TIMES BY USE OF THE EXISTING PAVEMENT OR THE COMPLETED PAVEMENT EXCEPT AS NOTED BELOW.

A MINIMUM OF I LANE SHALL BE MAINTAINED ON BROOKS-MALOTT ROAD, EXCEPT WHEN IT IS CLOSED IN MOT PHASE I AND DETOURED AS SHOWN ON SHEET 26 .

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 A REASONABLE TIME FRAME, 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.

THERE SHALL BE AN INTERIM COMPLETION DATE OF 10/31/2024 THAT INCLUDES THE COMPLETION OF ALL CONSTRUCTION WORK EXCEPT FOR THE FINAL SURFACE COURSE ON ALL ROADWAYS AND THE MILLING AND RESURFACING ON SR-32.

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. 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.

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

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS EXCEPT SR32 MAY STILL BE I LANE IN EACH DIRECTION:

HOLIDAYS CHRISTMAS FOURTH OF JULY NEW YEAR'S EVE LABOR DAY MEMORIAL DAY THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY 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
THURSDAY (THANKSGIVING ONLY)	6:00AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

DRUM REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

NOTICE OF CLOSURE SIGN

NOTICE OF CLOSURE SIGNS (W20-Hi3) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

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.

	NOTIFICATION TIME FRAME	TABLE
ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 6 COMMUNICATIONS OFFICE
ROAD AND	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
RAMP CLOSURES	> 12 HOURS AND < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES/	>= 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
RESTRICTIONS	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-HI3 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616 - WATER 1,000 M. GAL.

ITEM 614 - REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDNACE 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 USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANITY OF 50 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - REPLACEMENT DRUM

DRUMS 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 DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 100 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY.

WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER(S)	COUNTY-ROUTE- SECTIONS	DIRECTIONS
WZ-	BRO-32-2.52-4.48	EB/WB

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN

WORK ZONE SPEED ZONES (WZSZS) CONT'D

THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

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THE FOLLOWING ESIMATED QUANTITY'S HAVE BEEN CARRIED TO THE SUBSUMMARY.

ITEM 808, DIGITAL SPEEL LIMIT (DSL) SIGN ASSEMBLY 52 SNMT ASSUMING 4 DSL SIGN ASSEMBLIES FOR 13 MONTHS

ITEM 614. WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

BRIDGE BEAM PLACEMENT

FOLLOW SCD MT-99.60 FOR MAINTENANCE OF TRAFFIC TO INSTALL THE BRIDGE BEAMS OVER SR32.

PAYMENT FOR THIS WORK INCLUDING THE LEOS AND PCMSS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 -MAINTAINING TRAFFIC.

					SH	IEET N	UM.					PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SE SHE
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			1,142									1,142	202	23000	1,142		PAVEMENT REMOVED, AS PER PLAN	13
			1,172	284								284	202	35100	284		PIPE REMOVED, 24" AND UNDER	+ '
				207								207	202	33700	204		I II C NEMOVED, 24 AND GNOEN	
				18								18	202	35200	18	FT	PIPE REMOVED, OVER 24"	
			1									1	202	53100	1		MAILBOX REMOVED	
				2								2	202	58100	2		CATCH BASIN REMOVED	
				1								1	202	58500	1		CATCH BASIN ABANDONED	
	50											50	SPECIAL	20270110	50	FT	PIPE CLEANOUT, 24" AND UNDER	1
	50											50	SPECIAL	20270120	50		PIPE CLEANOUT, 27" TO 48"	1
			7,775					$+\infty$	$+\infty$			7,775	202~	75000	7,775	FI	FENCE REMOVED	$d\sim$
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		8					1000					9090	202	98100	800	LEACH \	REMOVAL MISC: INSPECTION WELL	$\mathcal{I} \mathcal{I}$
			1									1	202	98100	1	EACH	REMOVAL MISC.: PRIVATE SIGN REMOVED	16
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,500												2,500	204	21001	2,500		GRANULAR EMBANKMENT, AS PER PLAN	1
21												21	204	45000	21	HOUR	PROOF ROLLING	+ '
,500												3,500	204	50000	3,500		GEOTEXTILE FABRIC	1
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							60,795					60,795	206	10020	60,795	SY	LIME STABILIZED SUBGRADE, 14 INCHES DEEP	
							1,836					1,836	206	10300	1,836	TON	LIME	
							60,795					60,795	206	11000	60,795	SY	CURING COAT	
												LS	206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
			5 , 175									5,175	606	15050	5 , 175	FT	GUARDRAIL, TYPE MGS	
			10									10	606	26150	10		ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
			8									8	606	26550	8		ANCHOR ASSEMBLY, MGS TYPE T	
			2									2	606	35002	2		MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
			2									2	606	35102	2		MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
			10,188									10,188	607	15000	10,188	FT	FENCE, TYPE 47	_
		0.500										0.500	207	00000	0.500	<u></u>	SCHOOL HISSO TEHROOLDY CONSTRUCTION SCHOOL	.
		6,500										6,500	607	98000	6,500		FENCE, MISC.: TEMPORARY CONSTRUCTION FENCE	1
			1				1			6		6	623 SPECIAL	38500 69050100	6		MONUMENT ASSEMBLY MAILBOX SUPPORT SYSTEM, SINGLE	١.,
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		20		59	T	T -		1				79	601	32200	79		ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
					4,565		1	1				4,565	601	45050	4,565		BIORETENTION CELL	
							1											
	3											3	659	00100	3	EACH	SOIL ANALYSIS TEST	
	21,300											21,300	659	00300	21,300	CY	TOPSOIL	
					3,222				191,891			195,113	659	10000	195,113	SY	SEEDING AND MULCHING	
	9,595				1	1	1	1	1	$oxed{oxed}$		9,595	659	14000	9,595		REPAIR SEEDING AND MULCHING	
	9,595											9,595	659	15000	9,595	SY	INTER-SEEDING	
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	25.91		1				1					25.91	659	20000	25.91	TON	COMMERCIAL FERTILIZER	
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	432		1			-	1	1				432	659	40000	432	MSF	MOWING	-
			1	125		1	1	1				125	670	00710	125	SY	DITCH EROSION PROTECTION MAT, TYPE B	-
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			-		3,222	-	1	1.0				3,222	671	15000	3,222		EROSION CONTROL MAT, TYPE A	-
			1		1	+	+	LS	1			LS	832	15000	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	_
			1		!	1	1	LS LS	1			LS LS	832 832	15002 15010	LS LS		STORM WATER POLLUTION PREVENTION INSPECTIONS STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	+
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					SHEET	NUM.	_			PA	RT.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET	
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				0.8 0.84							0.8	807 807	12010 12010	0.8 0.84	MILE MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6", WHITE WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6", YELLOW		
				3.84							3.84	807	14010	3.84	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6", WHITE		-
				4.16							4.16	807	14010	4.16	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6", YELLOW		1
				4.16							4.16	807	14110	4.16	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"		
											1 105	227	11710	4 405		WET DESIGNATIVE THEOLOGIC POTTS BUILDING AND AND ADDRESS OF THE ADVISOR OF THE AD		_
				4,185				_			4,185	807	14310	4,185	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"		_
				2,470 10.08							2,470 10.08	807 850	14430 10010	2,470 10.08	FT MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 12" GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)		-
				2,470				+			2,470	850	10130	2,470	FT	GROOVING FOR 6 RECESSED PAVEMENT MARKING, (ASPHALT) GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)		-
				1.64							1.64	850	20010	1.64	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)		1
																,		
																TRAFFIC SIGNALS		_
					1					1 1		632	90101	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	454	_
																STRUCTURE OVER 20 FOOT SPAN (BRO-HOMAN-00.098)		\dashv
						LS				LS		503	11100	LS		COFFERDAMS AND EXCAVATION BRACING		_
						LS				LS		503	21300	LS		UNCLASSIFIED EXCAVATION		
						4,716				4,716		509	10000	4,716	LB	EPOXY COATED STEEL REINFORCEMENT		
						8				8		511	46011	8	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	466	
						37				37		511	46510	37	CY	CLASS QC1 CONCRETE, FOOTING		4
						3				3	1	511	46610	3	СҮ	CLASS QC1 CONCRETE, HEADWALL		\dashv
						60				60	+	511 512	10100	60	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	+	\dashv
						259				259		512	33000	259	SY	TYPE 2 WATERPROOFING		-
						30				30		516	13600	30	SF	1" PREFORMED EXPANSION JOINT FILLER		
-						5				5		518	21200	5	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		
						34				34		601	32200	34	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER		
						64				64		611	96492	64	FT	20' X 4' CONDUIT, TYPE A, 706.05		\dashv
																STRUCTURE OVER 20 FOOT SPAN (BRO-32-0363)		-
																FOR BRIDGE AND WALL QUANTITIES, SEE SHEETS 474 & 503		1
																,		
																MAINTENANCE OF TRAFFIC		
		100	1.000							100		614	11110	100	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		_
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	4		0							4		614	12484	4	EACH	WORK ZONE INFACT ATTENDATOR, 24 WIDE HAZARDS, (UNIDIRECTIONAL)		-
50	<u> </u>									50		614	12500	50	EACH	REPLACEMENT SIGN		1
100			61							100 61		614 614	12600 13310	100 61	EACH	REPLACEMENT DRUM BARRIER REFLECTOR, TYPE 1, ONE WAY		_
			4					+		4		614	13312	4	EACH EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY		-
			65							65		614	13350	65	EACH	OBJECT MARKER, ONE WAY		
	4									4		614	18601	4	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	20	
		8.3	2.57							8.3		614	20550	8.3	MILE	WORK ZONE LANE LINE, CLASS III, 4", 642 PAINT		_
			0.57 10.38							0.57		614 614	21100 22110	0.57 10.38	MILE MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT		-
-		14.7	10.50							14.7		614	22350	14.7		WORK ZONE EDGE LINE, CLASS II, 6", 642 PAINT WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT		
		77.7	2,198							2,198		614	23200	2,198	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT		╁
		4,632								4,632		614	23680	4,632	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT		
			8,716							8,716		614	24202	8,716	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT		_
		4,952	C 4							4,952		614	24610	4,952	FT	WORK ZONE DOTTED LINE, CLASS III, 4", 642 PAINT		4
,000			64							1,000		614 616	26200 10000	64 1,000	FT MGAL	WORK ZONE STOP LINE, CLASS I, 642 PAINT WATER		-
,000										1,000		010	10000	1,000	WGAL	WATEN		-
			3,051							3,051		622	41100	3,051	FT	PORTABLE BARRIER, UNANCHORED		1
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LS										LS 30		614 619	11000	LS 30	MNTH	MAINTAINING TRAFFIC FIELD OFFICE, TYPE B		-
						 					1		16010	- 15	IVIIV I H	CONSTRUCTION LAYOUT STAKES AND SURVEYING	+	\dashv
										15 2 LS	$\uparrow \sim$	623 623	10000	30 LS LS	\sim	CONSTRUCTION LAYOUT STAKES AND SUBVEYING PROVIDING ELECTRONIC INSTRUMENTATION		\dashv
										> LS		623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT		╁
										>								1
										45,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	623 624	51,000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT MOBILIZATION		_ t
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.								101	0 0) VE) VED () <u>\$</u>)E 1	(9) (9)	MGS	TERMINAL TYPE 1	RMI!	47	4-C	UC 4R)		
8	8						SPL	REA	REMOVED	V VEI	REMOVED	REMOVED]		TYPE	.Y, MGS 2016)	>	7.7	77	TYPE		STA VIT		JR7
	Щ		STATIO	OT NO	STATION			SE.		REMOVED, PLAN	×			@;; (_	MBL SH	MBL 7	GE 'Y'	GE,	F	TYPE	SA	(ADJUSTED RADE	NGL
REI	単							,TU	MEN		BO,	ENCE		MISC.: PRIVAT	RAI	ASSEMBL E (MASH	ASSEMBLY,	RID	RID	ICE,	<i>B</i> ,	PEC DE	BOX	SUPPORT
	SHE						9	RUC	P A VEMENT	EN1	MAILBOX	FEA () 7	IARDRAIL,	7 A.	7 A	S B.	MGS BRIDGE ASSEMBLY,	FENCE,	CURB,	E /	É E	8
							FUNDING	ST	7	PAVEMENT	2			OVAL	1/13	ANCHOR	ANCHOR	MGS BRIDGE ASSEMBLY,	MG.			MANHOLE RECONSTRUC GRADE (SANITAR	VALVE	МАІГВОХ
										PAI			_	REMO		1WC	1WC					NAN	2	M
								LS	SY	SY	EACH	FT	-	EACH	FT	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH
D1	10.7	147+53.69	S 25.00′ RT	SR 32 EB/		25.00′ LT	01/SAF/OT		847.1				-	5										
R1 F1	103	149+00.00	159.38' LT			128.72′ LT	01/SAF/01		041.1				-							351			+	
F2	103	149+13.97	129.53′ RT	TO	152+50.53	128.13′ RT	01/SAF/OT					\ \ \ \ \	-	2						336				
F3	104	165+24.92	146.64′ LT			168.95′ LT	01/SAF/OT					4.507	-	\mathbb{R}						1,680				
RF1	104	165+24.92	146.64′ LT	ТО	209+06.24	135.56′ LT	01/SAF/OT					4,587	>	\mathbb{K}									+	
R2	104	165+95.00	53.00′ LT		182+10.00	53.00′ LT	01/SAF/OT		1682.4				-	K										
R3		173+00.00	53.00′ RT			53.00′ RT	01/SAF/OT		1000.3			1	-	5						471				
F4 RF2	105 105	179+48.20 179+48.20	127.65′ RT 127.65′ RT		184+14.78 208+11.66	187.02′ RT 116.56′ RT	01/SAF/OT 01/SAF/OT					2,864	-							471			+	
GR1	106	189+72.00	10.00′ RT	TO	191+87.50	10.00'RT	01/SAF/OT					2,001			150.0	1	1							
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F 5	10 /	200+03.01	144.43 K1	10	200+11.00	110.56 K1	UI/SAF/UI						-							729			+	
R7		200+45.00	53.50′ RT		215+10.00	54.50′ RT	01/SAF/OT		1385.4				-	2										
₹8 ~	~1Q~~	201+17,00	53,25′LT	→ ₩	211+00-00	52-25' LT	9145AE/QI	1	957.1			 	-	$\langle \cdot \cdot \cdot $										
-		203+63.39	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	209+06.24	135.56° LT	TOTAL TOTAL	/				 	-	$\langle \cdot \cdot \cdot $						544			+	+ + + + + + + + + + + + + + + + + + + +
R10	108	211+24.02	25.00′ RT	10	226+82.71	24.5′ LT	01/SAF/OT		3776.3				-	K						011			+	
													-	K										
F7	108	218+11.98	144.38′	TO	221+18.05	148.02′ LT	01/SAF/OT					 	-	К						306			+	
			BRUCE	E LUNSFO	ORD WAY								-										+	
F8		403+43.63			408+39.10	103.07′ LT								2						524				
F9		403+43.96			408+65.81		01/SAF/OT						-	2	100 5					526				
GR4 GR5		407+57.50 405+82.00	19.00′ LT 19.00′ RT		409+31.41 409+20.29	29.25' LT 24.97' RT	01/SAF/OT					 	=	2	162.5 287.5	1	1						+	
GR6		410+23.20	27.04′ RT			15.00′ RT	01/SAF/OT					 	-	 	150.0	'		1					+	
													-	K										
GR7	128	410+30.76	26.92′ LT		411+95.15		01/SAF/0T					\rightarrow	-	K	162.5				1		05.0			
C1 C2	128 128	411+70.00	15.00′ LT 15.00′ RT		411+95.15 411+97.77	15.00° LT	01/SAF/OT 01/SAF/OT					+	-	Κ							25.2 27.8		+	
C3		414+37.68	15.00′ LT		414+65.00	15.00′ LT	01/SAF/OT					\downarrow	-	5							27.3		+	
C4	130	414+40.30	15.00′ RT		414+65.00	15.00′ RT	01/SAF/OT														24.7			
GR8	130	414+37.68	15.00′ LT	TO	416+11.80	27 O1/ I T	01/SAF/OT					+ (-	>	150.0			1				-	+	
GR9	130	414+31.00	15.00′ RT		416+04.25	26.92' RT						+ (-	\forall	162.5			'	1				+	+ + + + + + + + + + + + + + + + + + + +
GR10	130	417+14.09	24.94′ LT	TO	421+03.00	19.00′ LT	01/SAF/OT						-	K I	337.5	1								
GR11		417+03.44	29.30′ RT		419+03.10	19.00′ RT	01/SAF/OT					1 7		K T	187.5		1			070				
F10	130	417+53.49	203.63' LI	10	423+00.00	53.00′ LT	UI/SAF/UT					+>	-	K						630			+	
F11	130	417+56.15	128.84′ RT	ТО	422+99.94	53.00′ RT	01/SAF/OT						-	K						554			<u> </u>	
													-	5										
R21	112	500+72.75		RAMP NW	W		01/SAF/OT					+ (-	1									+	
F12		503+24.93	62.98′ LT		511+37.90	102.98′ LT	01/SAF/OT					(-	 						842			+	
GR12	113	508+93.15	8.00′ LT	TO	513+13.64	59.09′ LT	01/SAF/OT							2	437.5		1							
GR13	114	510+54.00	22.00′ RT	TO	513+11.58	43.20′ RT	01/SAF/OT				1	+>	-	\mathbb{K}	250.0		1						+	
			I	RAMP NE			1						-	5										
GR14 GR15		600+29.30 600+26.92	48.44′ LT 57.75′ RT		605+53.00 604+67.00	8.00′ LT 22.00′ LT	01/SAF/OT				1	+ (-	\mathbb{R}	487.5 400.0	1							+	
F13		601+29.07			612+08.63	55.98' LT							-	<u> </u>	100.0					1,081				
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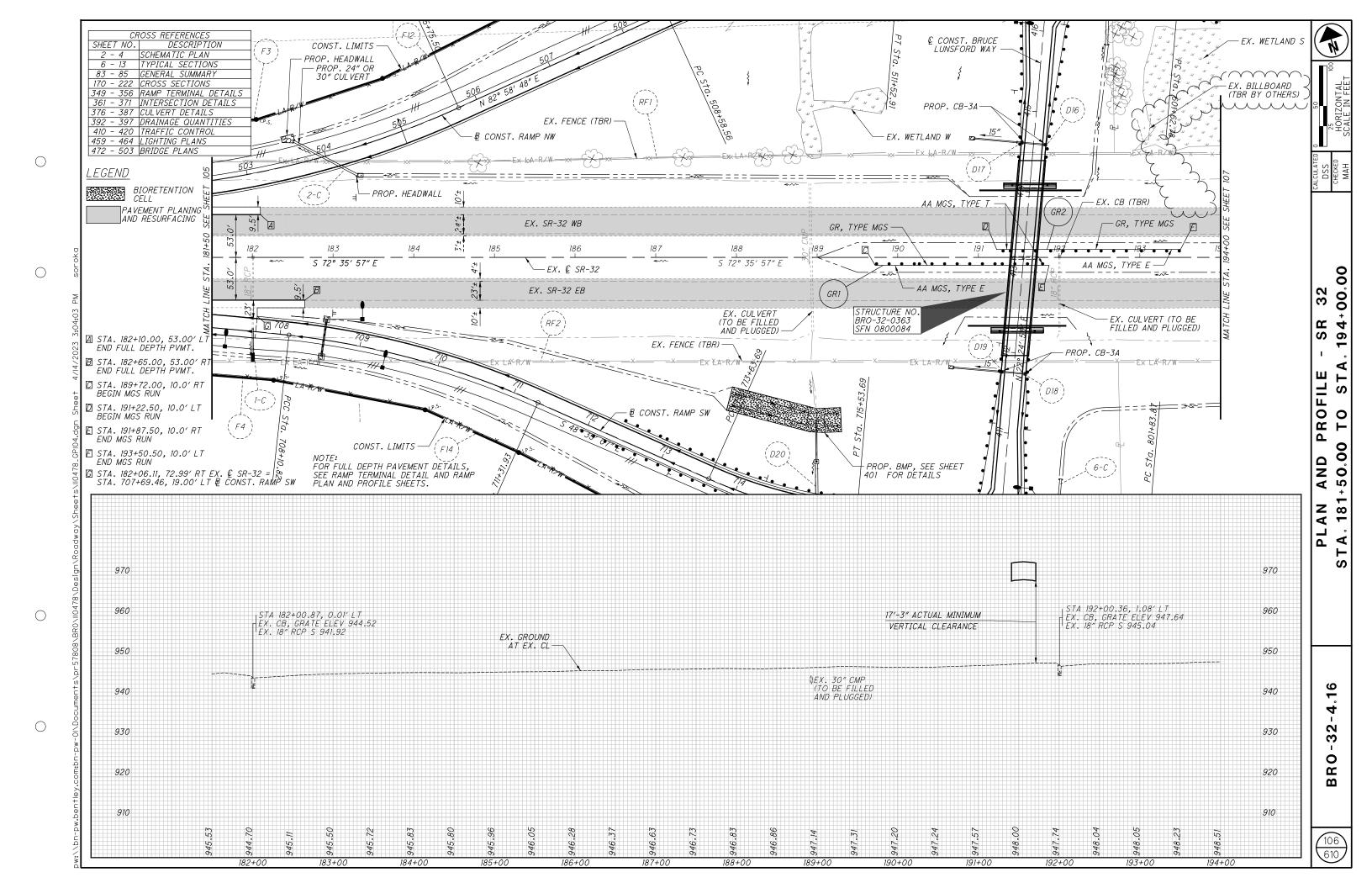
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REF NO.	SHEET NO.		STATION	N TO S	STATION		FUNDING SPLIT #	STRUCTURE REMOVED 02	PAVEMENT REMOVED	PAVEMENT REMOVED, AS PER	HDAY REMOVED 202	FENCE REMOVED		REMOVAL MISC.: PRIVATE SIGN SO REMOVED	GUARDRAIL, TYPE MGS	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	ANCHOR ASSEMBLY, MGS TYPE 99	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	FENCE, TYPE 47	LA CURB, TYPE 4-C 609	MANHOLE RECONSTRUCTED TO GRADE (SANITARY)	CHDE BOX ADJUSTED TO GRADE	SPECIAL SINGLE SINGLE	
								LS	31	31	EACH	F1 (Y EACH	F I	EACH	EACH	EACH	EALH	FI	FI	EAUH	EACH	EACH	
GR16 F14 GR17 RF3	120 120 121 121	711+94.50 710+00.28 712+39.00 715+71.17	8.00' RT 55.21' RT 22.00' LT 147.28' RT	RAMP SW TO TO TO TO	717+02.72 716+28.91 717+05.06 801+60.65	48.59′ RT 140.90′ RT 50.76′ LT 107.46′ RT	01/SAF/OT 01/SAF/OT 01/SAF/OT 01/SAF/OT					324			475.0 425.0	1				676					
GR18 GR19 F15	122 122 122	800+24.97 800+27.04 801+03.11	59.71′ RT 43.20′ LT 114.19′ RT	RAMP SE TO TO	804+35.50 802+97.93 810+00.04	8.00′ RT 22.00′ LT 47.99′ RT	01/SAF/OT 01/SAF/OT 01/SAF/OT						-		425.0 262.5		1			938					
R16 RD15 R17 GR3	138 139 145 156	HOMAN WAY 303+66.86 308+82.20 330+84.65 362+58.00	60.00′ LT 60.00′ LT 32.00′ LT 19.00′ RT	TO TO TO TO	313+15.20 308+99.12 331+17.16 364+59.00	60.00′ LT 60.00′ LT 38.00′ LT 19.00′ RT	01/SAF/OT 01/SAF/OT 01/SAF/OT 01/SAF/OT	LS		1096.8					100	2									
W1 SS1 MB1	138 156 156	303+82.67 364+85.70 365+65.00	28.54′ RT 23.22′ RT 17.00′ RT	ТО	365+67.00	15.70′ RT	01/SAF/OT 01/SAF/OT 01/SAF/OT				1		-		100	2						1	1	1	
R22	160	MERCY BLVD 57+16.78 BODMAN RD	+83.05		57+75.57	35.25′ LT	01/SAF/OT		109				•												
R11 R12	103 103 BF 109	20+65.00 17+91.00 ROOKS-MALOTT R 14+70.78	0.00' RT 0.00' RT D 0.00' RT	TO TO	24+62.01 19+35.00	0.00′ RT 0.00′ RT	01/SAF/OT 01/SAF/OT 01/SAF/OT		1257.1 620.9 3508.4																
R14 R15	109 109	20+65.00 25+98.13	0.00′ RT 13.48′ LT	TO	25+30.99 27+46.81	5.00′ RT 6.00′ RT	01/SAF/OT 01/SAF/OT		1405.0 246.8				-												
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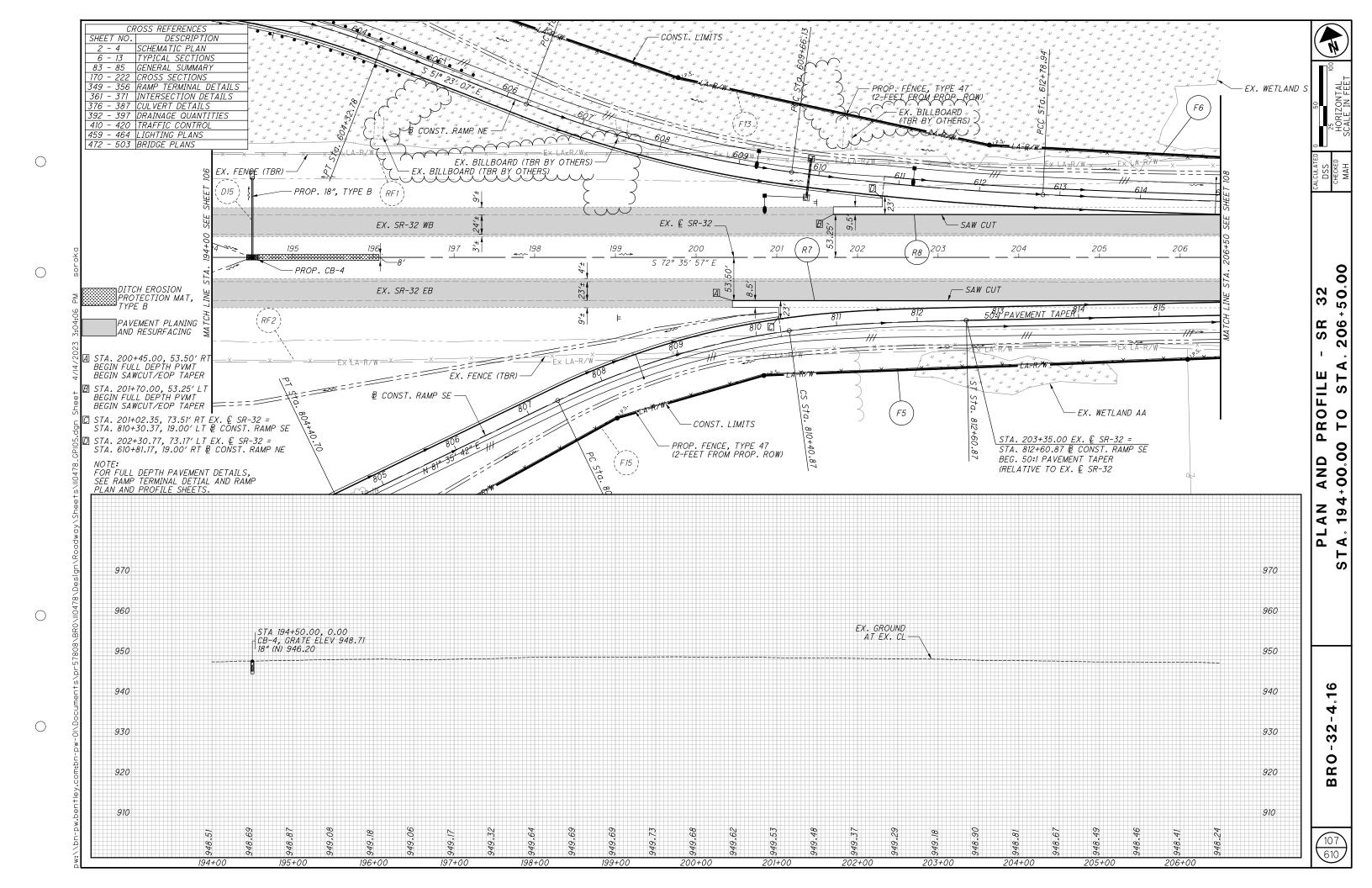
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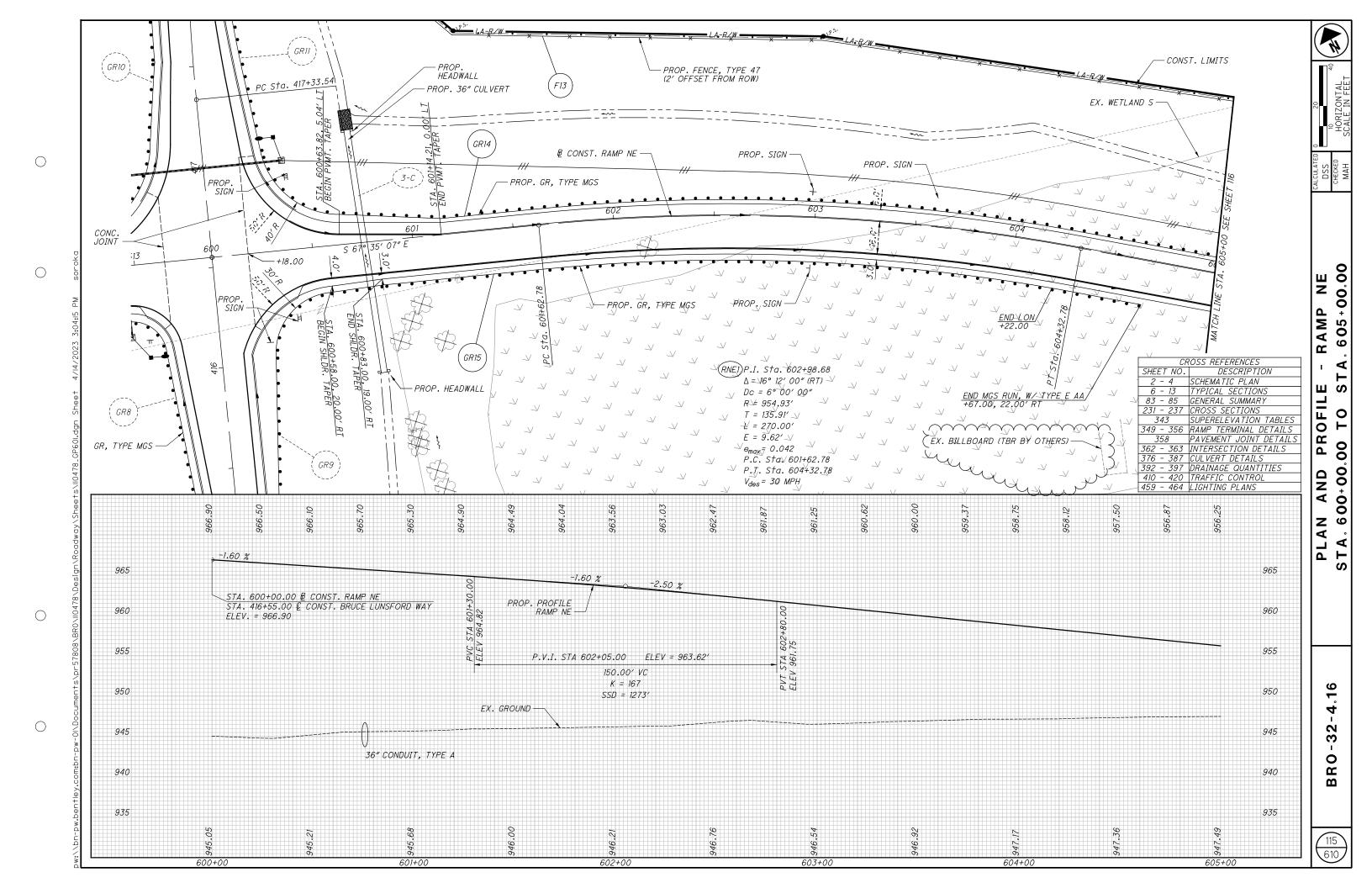
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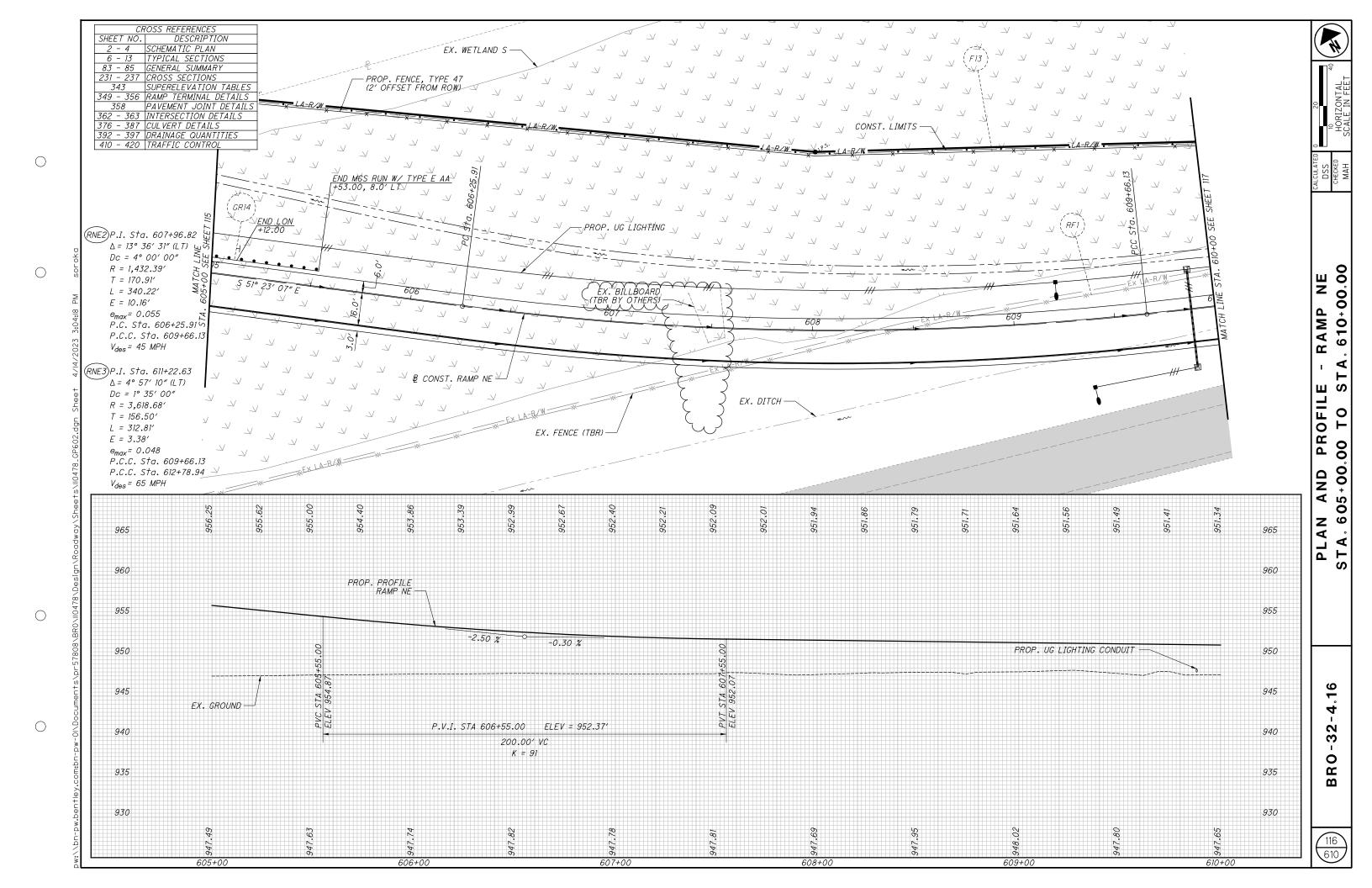
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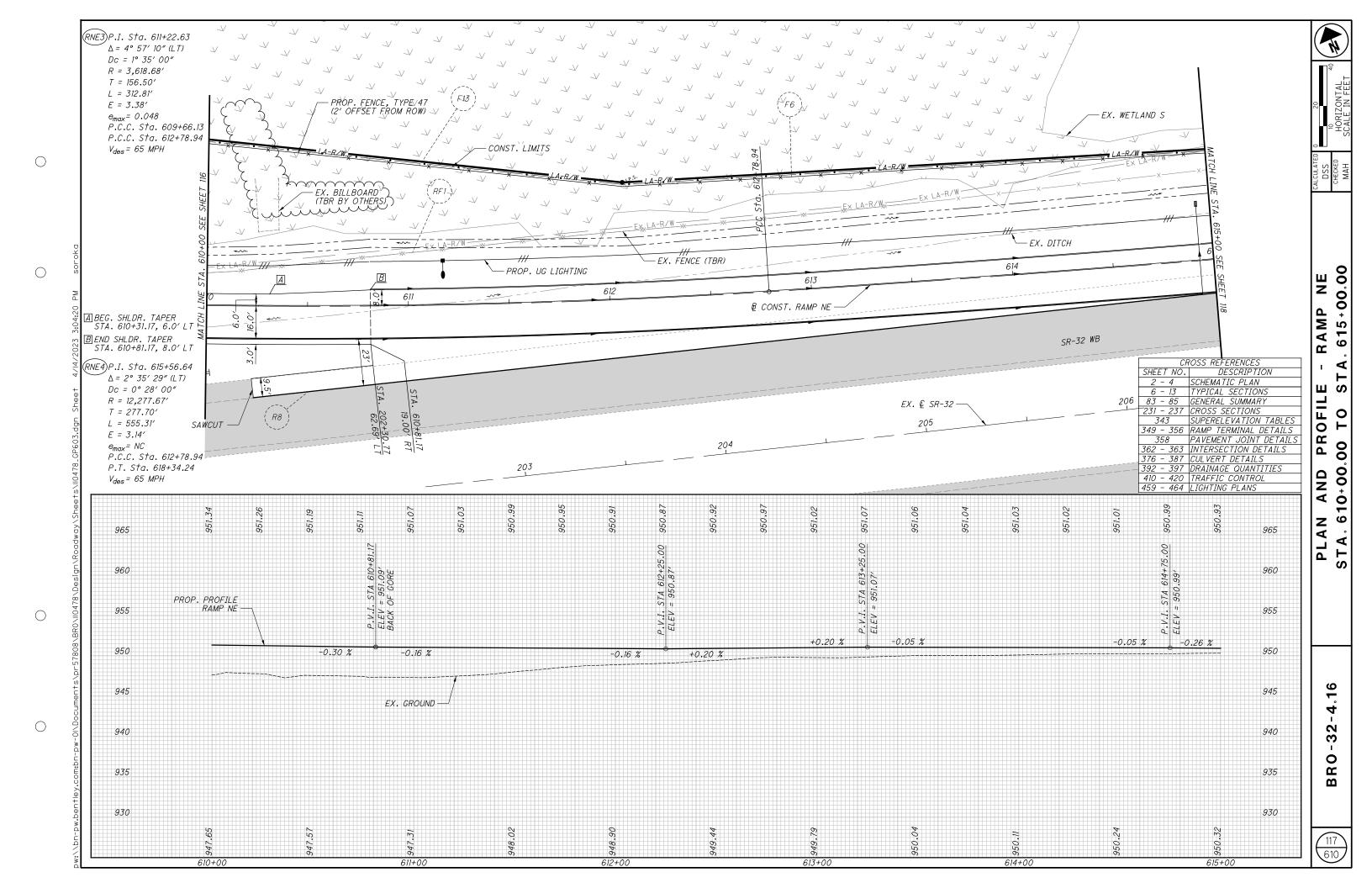
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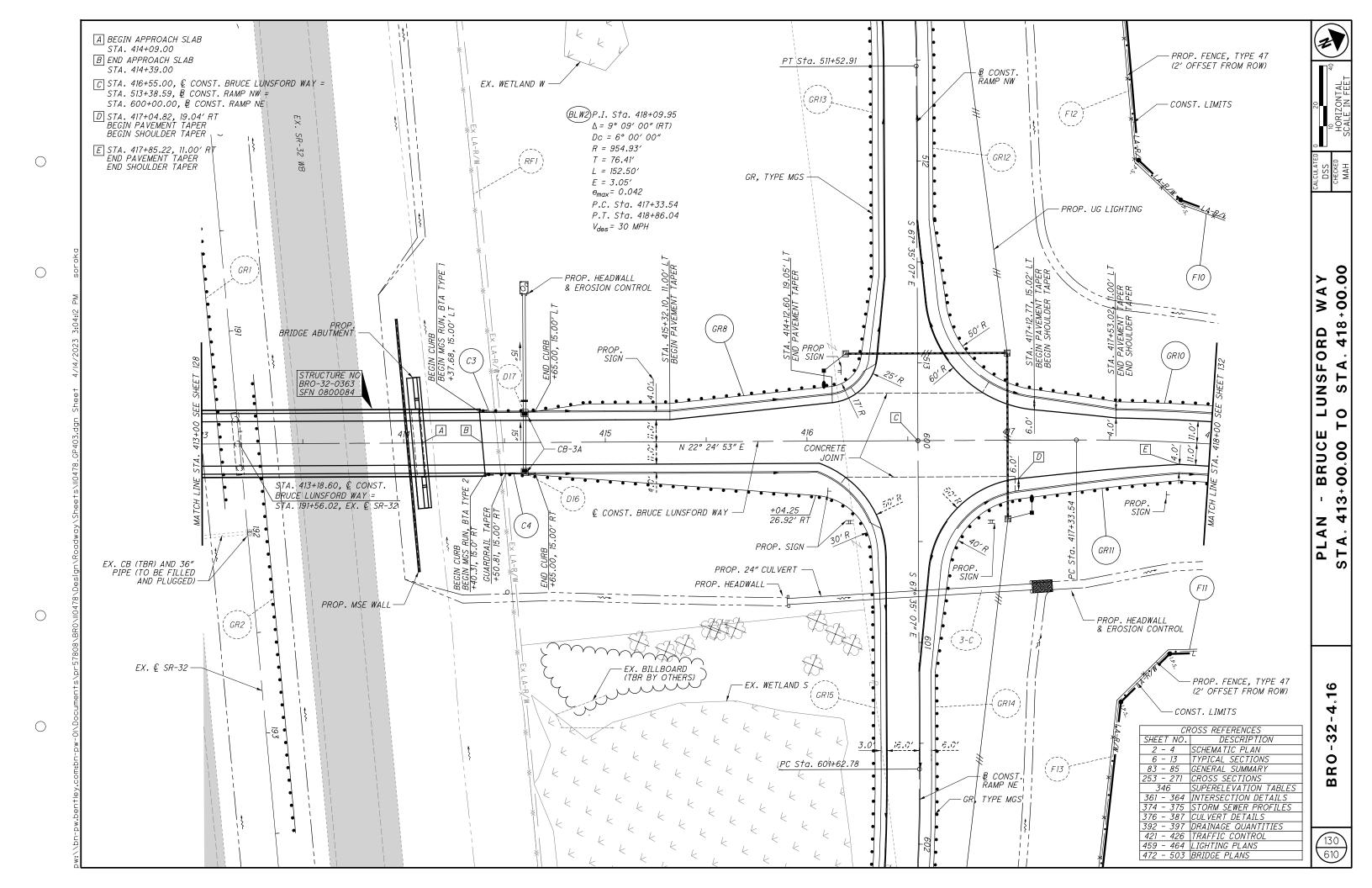












AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS: 840 DATED 1-17-20 846 DATED 4-17-15

<u>DESIGN SPECIFICATIONS:</u>
THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

<u>OPERATIONAL IMPORTANCE:</u> A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

FUTURE WEARING SURFACE (FWS) OF 60 PSF

<u>DESIGN DATA:</u>
CONCRETE CLASS OC2 WITH QC/QA - COMPRESSIVE STRENGTH 4.5 KSI
(SUPERSTRUCTURE INCLUDING ABUTMENT, INTERMEDIATE AND PIER DIAPHRAGMS, AND

CONCRETE CLASS QC1 WITH QC/QA- COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

REINFORCING STEEL - GRADE 60. MINIMUM YIELD STRENGTH 60 KSI STRUCTURAL STEEL - ASTM A709 GRADE 50 - YIELD STRENGTH 50 KSI (BEARING HP SECTION AND LOAD PLATE)

CONCRETE FOR PRESTRESSED I-BEAMS: COMPRESSIVE STRENGTH (FINAL) - 9 KSI COMPRESSIVE STRENGTH (RELEASE) - 7 KSI CONCRETE INTERMEDIATE DIAPHRAGMS SHALL BE USED

WELDED WIRE FABRIC: YIELD STRENGTH - 70 KSI

PRESTRESSING STRAND: ASTM A416 GRADE 270 ULTIMATE STRENGTH = 270 KSI STRAND AREA = .217 SQ. IN. INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

DECK PROTECTION METHOD: EPOXY COATED REINFORCING STEEL 2½ IN CONCRETE COVER

MONOLITHIC WEARING SURFACE:
MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH

ITEM 203 - EMBANKMENT, AS PER PLAN SEE ROADWAY GENERAL NOTES FOR DETAILS

PILE DESIGN LOADS (ULTIMATE BEARING VALUE):
THE ULTIMATE BEARING VALUE IS 267 KIPS PER PILE FOR THE REAR AND FORWARD ABUTMENT PILES. THE ULTIMATE BEARING VALUE IS 343 KIPS PER PILE FOR THE

REAR ABUTMENT PILES: (16)-PILES, 12" \$\phi\$ C.I.P., 50 FT LONG (ORDER LENGTH)

FORWARD ABUTMENT PILES: (16)-PILES, 12" \$\phi\$ C.I.P., 55 FT LONG (ORDER LENGTH)

PIER PILES: (12)-PILES, 14" \$\phi\$ C.I.P., 40 FT LONG (ORDER LENGTH)

3 DYNAMIC LOAD TESTING ITEMS (2 FOR 12" \$\phi\$ C.I.P. & 1 FOR 14" \$\phi\$ C.I.P.)

PILE DRIVING CONSTRAINTS:
PRIOR TO DRIVING ABUTMENT PILES TO THE ULTIMATE BEARING VALUE (UBV),
CONSTRUCT THE MSE WALL AND THE BRIDGE APPROACH EMBANKMENT BEHIND THE
ABUTMENT UP TO THE BOTTOM OF THE FOOTING FOR A MINIMUM DISTANCE OF 200
FEET BEHIND EACH ABUTMENT. THE CONTRACTOR MAY PRE-DRIVE ABUTMENT PILES
BEFORE CONSTRUCTING MSE WALLS. PRE-DRIVING CONSISTS OF INSTALLING THE
ABUTMENT PILES IN TO THE SOIL ONLY AS FAR AS NECESSARY SO THAT THE PILE
WILL REMAIN VERTICAL DURING MSE WALL CONSTRUCTION. IF PRE-DRIVING PILES,
INSTALL PILE SLEEVES AROUND PILES BEFORE CONSTRUCTIOR THE MSE WALL. AT OUT OF THE PILE SIFEVE TO LEAST THREE FEET OF PILE MUST EXTEND ABOVE THE TOP OF THE PILE SLEEVE TO MEET THE REQUIREMENTS OF CMS 507.09 REGARDING SPLICES. DO NOT DRIVE MEET THE REQUIREMENTS OF CMS 507.09 REGARDING SPLICES. DO NOT DRIVE ABUTMENT PILES TO THE EOID UNTIL AFTER THE ABOVE REQUIRED MSE WALL AND EMBANKMENT HAVE BEEN CONSTRUCTED AND A 90 CALENDAR DAY WAITING PERIOD HAS ELAPSED. THE ENGINEER MAY ADJUST THE LENGTH OF THE WAITING PERIOD BASED ON SETTLEMENT PLATFORM READINGS. AFTER THE SPECIFIED WAITING PERIOD HAS ELAPSED, DRIVE ABUTMENT PILES TO THE EOID. IN ORDER TO REMOVE ANY NEGATIVE SKIN FRICTION THAT HAS DEVELOPED DURING THE WAITING PERIOD, DRIVE EACH ABUTMENT PILE A DISTANCE OF AT LEAST 0.5 INCH.

PILE DRIVING CONSTRAINTS CONTINUED:
IF NOT PRE-DRIVING ABUTMENT PILES, INSTALL THE ABUTMENT PILES THROUGH PILE
SLEEVES AFTER THE ABOVE REQUIRED MSE WALL AND EMBANKMENT HAVE BEEN CONSTRUCTED AND THE SPECIFIED WAITING PERIOD HAS ELAPSED.

PILES DRIVEN TO INITIAL DRIVE RESISTANCE WITH PILE/SOIL SETUP:
THE ULTIMATE BEARING VALUE (UBV) IS 267 KIPS PER PILE FOR THE 12" \$\phi\$ C.I.P.
REAR AND FORWARD ABUTMENT PILES. THE UBV IS 343 KIPS PER PILE FOR THE 14" \$\phi\$
C.I.P. PIER PILES. PART OF THE UBV WILL BE ACHIEVED THROUGH PILE/SOIL
SETUP, WHICH IS A TIME DEPENDENT INCREASE IN RESISTANCE THAT OCCURS IN SOME

NOTIFY THE ENGINEER AT LEAST 5 DAYS BEFORE DRIVING PILES SO THAT THE ENGINEER CAN NOTIFY THE DISTRICT GEOTECHNICAL ENGINEER, THE OFFICE OF CONSTRUCTION ADMINISTRATION, AND THE OFFICE OF GEOTECHNICAL

DRIVE THE FIRST TWO PILES IN EACH ABUTMENT TO AN END OF INITIAL DRIVE RESISTANCE (EOID) OF 193 KIPS. DRIVE THE FIRST TWO PILES IN THE PIER TO AN EOID OF 244 KIPS. PERFORM DYNAMIC LOAD TESTING ON BOTH PILES WHILE DRIVING. AFTER THE INITIAL DRIVE, CEASE ALL DRIVING OPERATIONS AT THE SUBSTRUCTURE FOR A PERIOD OF 7 DAYS. INCLUDE THE WAITING PERIOD AS A SEPARATE ACTIVITY IN THE PROGRESS SCHEDULE. AFTER THE WAITING PERIOD, PERFORM PILE RESTRIKES ON BOTH PILES IN EACH SUBSTRUCTURE (ONE RESTRIKE AS PER PLAN PAY ITEM PER

SUBMIT ALL TEST RESULTS TO THE ENGINEER. IF THE RESTRIKE TEST RESULTS INDICATE THAT BOTH PILES ACHIEVED THE REQUIRED UBV, USE THE INITIAL DRIVE DYNAMIC LOAD TESTING AND EOID TO ESTABLISH DRIVING CRITERIA FOR INSTALLATION OF THE REMAINING PILES IN THE SUBSTRUCTURE ACCORDING TO C&MS 507.05 AND 523.04.

IF THE RESTRIKE TEST RESULTS INDICATE THAT EITHER OF THE TWO PILES DID NOT ACHIEVE THE REQUIRED UBV, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE ENGINEER CAN NOTIFY THE DISTRICT GEOTECHNICAL ENGINEER, THE OFFICE OF CONSTRUCTION ADMINISTRATION, AND THE OFFICE OF GEOTECHNICAL ENGINEERING. THE ENGINEER WILL REVIEW THE TEST RESULTS AND ESTABLISH DRIVING CRITERIA FOR THE PILING IN THE SUBSTRUCTURE WITH THE ASSISTANCE OF THE DISTRICT GEOTECHNICAL ENGINEER, THE OFFICE OF CONSTRUCTION ADMINISTRATION, AND THE OFFICE OF GEOTECHNICAL ENGINEERING.

DRIVE ALL PILES IN THE SUBSTRUCTURE TO THE ESTABLISHED DRIVING CRITERIA. THE DEPARTMENT WILL PAY FOR SPLICING OF THE PILES BEYOND THE ESTIMATED LENGTH PROVIDED IN THE PLANS UNDER C&MS 109.05 WITH A NEGOTIATED PRICE PER SPLICE.

THIS PLAN NOTE INCLUDES A QUANTITY OF ONE EACH ITEM 523 DYNAMIC LOAD TESTING, AS PER PLAN AND A QUANTITY OF ONE EACH ITEM 523 RESTRIKE, AS PER PLAN PER EACH SUBSTRUCTURE UNIT.

DECK PLACEMENT DESIGN ASSUMPTIONS:
THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE
FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS
RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE

PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

1) AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.3 KIPS.
2) A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103 IN.
3) A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 IN.
4) A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65 IN.

ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK:
THIS ITEM SHALL INCLUDE THE BRIDGE DECK, REAR AND FORWARD ABUTMENT
DIAPHRAGMS, PIER DIAPHRAGM, AND THE EXPANDED POLYSTYRENE FILLER USED TO FORM THE BOTTOM OF THE DIAPHRAGMS.

ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY):
BRIDGE ABUTMENTS, WINGWALLS, AND PARAPET SURFACES AS SHOWN IN THE PLANS
AND ALL EXPOSED CONCRETE SURFACES OF THE PIER EXCEPT FOR THE TOP OF PIER CAP SHALL BE SEALED WITH NON-EPOXY SEALER PER ITEM 512.

ITEM 507 - 12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED, AS PER

PLAN: THE STEEL FOR THE CAST-IN-PLACE PILE SHALL HAVE A WALL THICKNESS OF 0.312 INCHES FOR ASTM A 252 GRADE 3 STEEL.

ITEM 507 - 14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED, AS PER THE STEEL FOR THE CAST-IN-PLACE PILE SHALL HAVE A WALL THICKNESS OF 0.400

<u>PILE DRIVING:</u>
THE MINIMUM RATED ENERGY OF THE HAMMER USED TO INSTALL THE PILES SHALL BE

43.24 FOOT-KIPS. ENSURE THAT THE STRESSES IN THE PILES DURING DRIVING DO

NOT EXCEED 45 KIPS PER SQUARE INCH.

INCHES FOR ASTM A 252 GRADE 3 STEEL.

EXPLANATION OF THE ALTERNATES:
PYLON ALTERNATE I IS FOR ABUTMENT WINGWALLS INCLUDING THE AESTHETIC PYLONS. PYLON ALTERNATE 2 IS FOR ABUTMENT WINGWALLS WITHOUT THE AESTHETIC PYLONS.

VANDAL PROTECTION FENCE ALTERNATE 1 IS FOR VANDAL PROTECTION FENCE INCLUDING THE AESTHETIC LETTERS.

VANDAL PROTECTION FENCE ALTERNATE 2 IS FOR VANDAL PROTECTION FENCE WITHOUT THE AESTHETIC LETTERS.

PROPRIETARY RETAINING WALL DATA: THE PROPRIETARY WALL SUPPLIER SHALL DESIGN THE INTERNAL STABILITY OF A MECHANICALLY STABILIZED EARTH (MSE) WALL IN ACCORDANCE WITH SS840 TO SUPPORT THE ABUTMENT. THE DESIGN FOR INTERNAL STABILITY SHALL INCLUDE A NOMINAL (I.E. UNFACTORED) HORIZONTAL STRIP LOAD DUE TO FRICTION (FR) FROM THE SUPERSTRUCTURE OF 1.97 K/FT APPLIED PERPENDICULAR TO THE FACE OF WALL AT THE BASE OF THE CONCRETE FOOTING. THIS STRIP LOAD DOES NOT INCLUDE EARTH PRESSURE LOADS FROM THE ABUTMENT BACKFILL. HOWEVER, THE PROPRIETARY WALL SUPPLIER SHALL INCLUDE EARTH PRESSURE LOADS FROM THE ABUTMENT BACKFILL IN THE DESIGN

ITEM 607, FENCE, VANDAL PROTECTION FENCE, 6' STRAIGHT COATED FABRIC, AS PER PLAN

A STEEL FENCE SHALL BE CONSTRUCTED ACROSS THE STRUCTURE AS SHOWN ON THE PLANS. ALL PARTS OF THE FENCE (WITH THE EXCEPTION OF THE COATED FABRIC) SHALL BE GALVANIZED PER CMS 711.02, EXCEPT THAT FENCE ELEMENTS SHALL NOT BE POST TREATED WITH WATER QUENCHING OR CHROMATE CONVERSION COATED.

PRIOR TO GALVANIZING, ALL CORNERS OF THERMALLY CUT OR SHEARED EDGES SHALL HAVE A 1/16 INCH RADIUS OR EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE. VENT HOLES WHERE REQUIRED FOR GALVANIZING SHALL BE DETAILED BY THE FABRICATOR AND PLACED IN THE UNDERSIDE OF THE

AFTER GALVANIZATION, ZINC HIGH SPOTS SUCH AS METAL DRIP LINE AND OTHERS THAT WOULD DETRACT FROM THE PAINT APPEARANCE SHALL BE MADE FLUSH WITH THE SURROUNDING SURFACE BY SSPC SP2 OR SP3. CARE SHALL BE TAKEN THAT THE BASE GALVANIZED COATING IS NOT REMOVED. REPAIRED AREAS SHALL BE CHECKED FOR REQUIRED COATING

GALVANIZED COATINGS DAMAGED IN THE SHOP SHALL BE REPAIRED PER ASTM A780 METHOD A3. GALVANIZED COATINGS DAMAGED IN THE FIELD SHALL BE REPAIRED PER ASTM A780 METHOD A1.

AFTER REMOVING HIGH SPOTS THE GALVANIZED COATING SHALL BE CLEANED PER SSPC SP-1. THE CLEANING SOLUTION SHALL BE AN ALKALINE SOLUTION WITH A PH RANGING FROM A MINIMUM OF 11 TO A MAXIMUM OF 12. THIS SOLUTION CAN BE APPLIED BY IMMERSION, SPRAY OR SOFT NYLON BRUSH. FOLLOW CLEANING WITH A HOT WATER OR HOT PRESSURE WASHER RINSE, INDIVIDUAL PIECES SHALL BE SEPERATED AND POSITIONED TO FACILITATE DRAINAGE AND DRYING. THE PIECES SHALL BE COMPLETELY DRY BEFORE PROCEEDING.

AFTER CLEANING, THE PIECES SHALL BE ABRASIVE BLASTED PER SSPC-SP7 BRUSH-OFF BLAST CLEANING. THE BLASTING OPERATION SHALL ROUGHEN THE GALVANIZED SURFACE TO AN ANGULAR SURFACE PROFILE OF O.25 TO O.50 MILS. THE BLASTING EQUIPMENT, TECHNIQUE AND ABRASIVE MATERIAL SHALL BE SELECTED TO PROVIDE FOR THE SPECIFIED SURFACE PROFILE WITHOUT REMOVAL OF ZINC LAYERS. THE FINAL ZINC MILLAGE SHALL NOT BE LESS THAN 3.0 MILS. ALL ABRASIVE RESIDUE SHALL BE REMOVED WITH CLEAN COMPRESSED AIR OR OTHER METHODS ACCEPTABLE TO THE DEPARTMENT, FIELD CONNECTION AREAS SHALL HAVE A UNIFORM GALVANIZED COATING FREE OF LOCAL EXCESSIVE ROUGHNESS WHICH WOULD PREVENT THE FIELD CONNECTIONS FROM MAKING INTIMATE

ALL PARTS OF THE FENCE (EXCLUDING THE COATED FABRIC) SHALL BE SHOP PAINTED AFTER GALVANIZING. AFTER OBTAINING AN ACCEPTABLE SURFACE PROFILE, SHOP APPLY A TWO COAT PAINT SYSTEM CONSISTING SURFACE PROFILE, SHOP APPLY A TWO COAT PAINT SYSTEM CONSISTING OF EPOXY INTERMEDIATE COAT AND A URETHANE FINISH COAT. THE FINISH COAT OF ALL FENCE COMPONENTS SHALL MATCH FEDERAL COLOR STANDARD NO. 595B-27040 (BLACK). EXCEPT THAT THE AESTHETIC LETTERS, IF BEING PROVIDED, OUTSIDE FACE OF LETTERS (THAT SIDE WHICH IS VIEWED FROM SR 32) SHALL MATCH SHERWIN WILLIAMS COLOR CODE SW 6757 (TAME TEAL). THE OPPOSITE FACE OF THE LETTERS SHALL MATCH THE COLOR OF THE FENCE; FEDERAL COLOR STANDARD NO. 595B-27040 (BLACK).

THE EPOXY INTERMEDIATE COATING SHALL BE APPLIED WITHIN 24 HOURS OF THE BRUSH-OFF BLASTING.

THE FENCE FABRIC SHALL BE 1" DIAMOND MESH FABRIC, AND SHALL BE GALVANIZED AND COATED AS DESCRIBED IN STANDARD DRAWING VPF-1-90. EXCEPT THAT THE PVC COATING SHALL CLOSELY APPROACH FEDERAL COLOR STANDARD NO. 595B-27040 (BLACK).

EXPOSED SURFACES OF ALL NUTS, BOLTS, AND ANCHOR BOLTS USED TO ASSEMBLE THE FENCE SHALL BE GALVANIZED AND FIELD PAINTED TO MATCH FENCE COMPONENTS.

ALL LABOR, EQUIPMENT AND MATERIALS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED WITH THEM 607, VANDAL PROTECTION FENCE, 6'
STRAIGHT, COATED FABRIC, AS PER PLAN (WITH AESTHETIC LETTERS)
- (ALTERNATE 1) OR ITEM 607, VANDAL PROTECTION FENCE, 6' STRAIGHT,
COATED FABRIC (WITHOUT AESTHETIC LETTERS) (ALTERNATE 2). ₩ ₩

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L NOTES 12-0363 OVER STAT GENERAL BRO-32-

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ESTIMATED QUANTITIES

DESCRIPTION

UNIT

ITEM

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ITEM EXT.

0 STANDARD ABBREVIATIONS LIST: APPROX. = APPROXIMATE A.S. = APPROACH SLAB	BURGESS & I	Engineers ■ Architects ■ soss REED ROAD, COLUMBUS, OH
BOT. = BOTTOM BRG. = BEARINGS BRGS. = BEARINGS B.S. = BOTH SIDES BTWN. = BETWEEN c/c = CENTER-TO-CENTER C.J. = CONSTRUCTION JOINT CIP = CAST-IN-PLACE CLR. = CLEAR CMS OR C&MS = CONSTRUCTION AND	REVIEWED DATE JCS 1/11/21	STRUCTURE FILE NUMBER
MATERIALS SPECIFICATIONS CONSTR. = CONSTRUCTION DIA. = DIAMETER EB = EAST BOUND E.F. = EACH FACE	DRAWN JFM	REVISED
EL. OR ELEV. = ELEVATION EMBED. = EMBEDMENT EQ. = EQUAL EST. = ESTIMATE EXIST. = EXISTING	DESIGNED OD/JFM	CHECKED
EXP. = EXPANSION F.A. = FORWARD ABUTMENT F.F. = FAR FACE FWD = FORWARD LT. = LEFT MAX. = MAXIMUM N.F. = NEAR FACE NPCPP = NON-PERFORATED CORRUGATED PLASTIC PIPE O/O = OUT-TO-OUT PCPP = PERFORMED EXPANSION JOINT FILLER P.G. = PROFILE GRADE P.S. = PRESTRESSED P.V.I. = POINT OF VERTICAL INTERSECTION R.A. = REAR ABUTMENT RT. = RIGHT SHLD. = SHOULDER SHT. = SHEET SI OR SO. IN. = SQUARE INCHES S.O. = SERIES OF SPA. = SPACES SR = STATE ROUTE STA. = STATION STD. DWG. = STANDARD DRAWING SYMM. = SYMMETRICAL TYP. = TYPICAL TXB = TOP AND BOTTOM T/R = TOP OF ROCK	ESTIMATED QUANTITIES	BRO-32-0363 RRHGE HINSEORD WAY OVER STATE ROHTE 32

DATE

GENERAL

ODW/JFM 10/15/2020

SUPERSTR.

ABUTMENTS

PIER

CHK'D

01/SAF/OT

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112

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12697

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04/NFP/OT

DATE

10/15/2020

SHT. REF.

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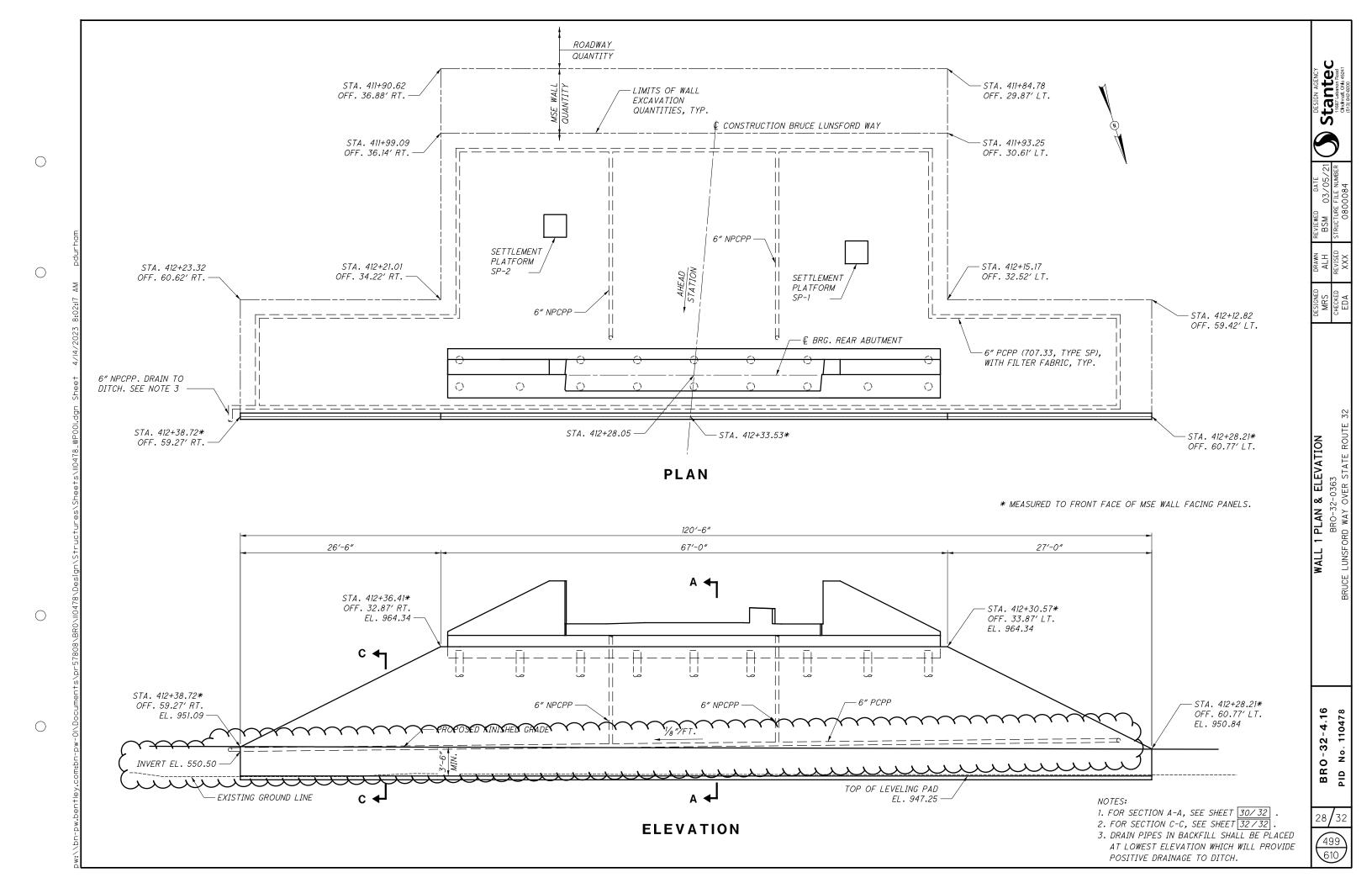
23 , 24

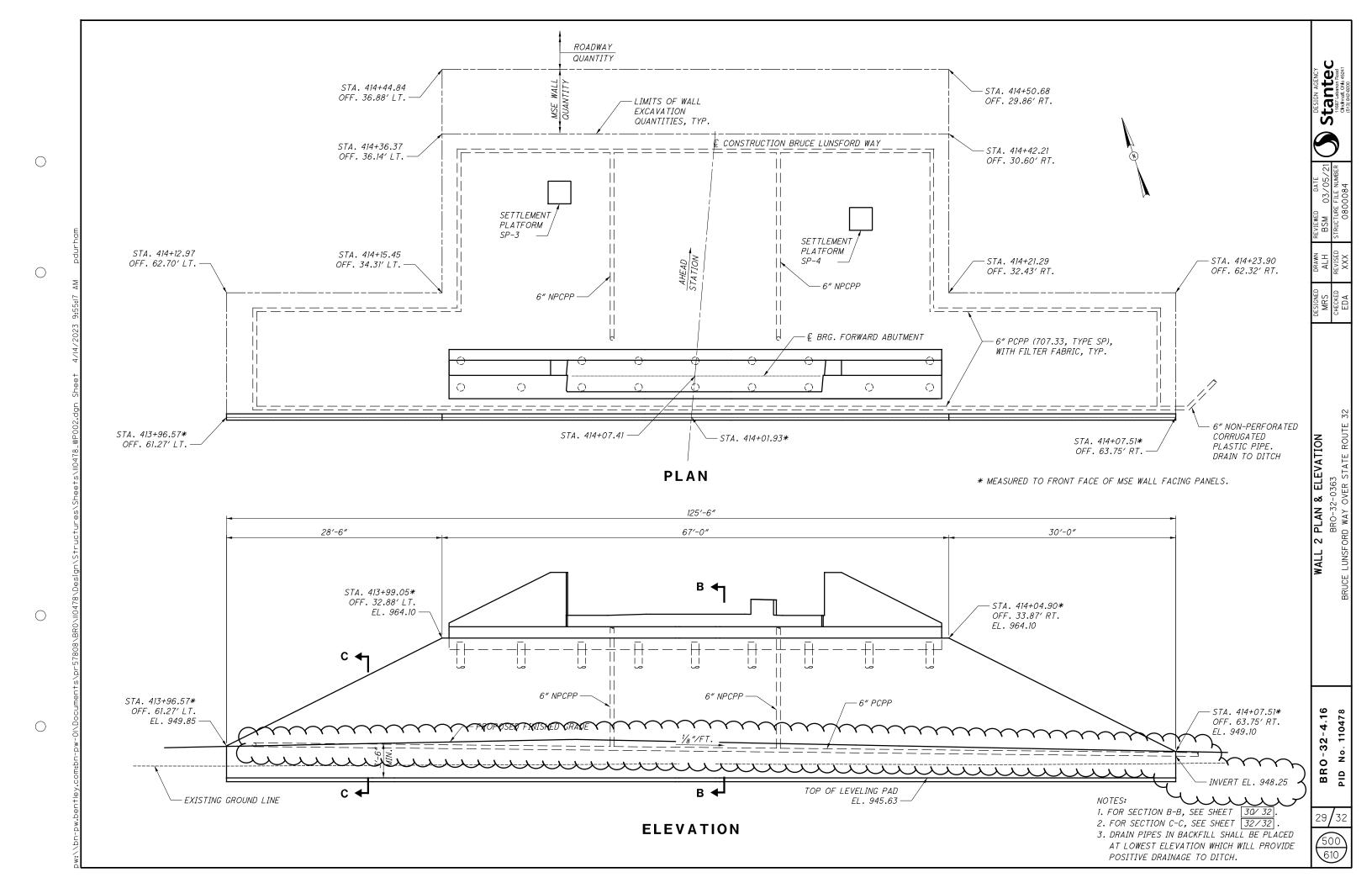
T/R = TOP OF ROCK t/t = TOE-TO-TOE UBV = ULTIMATE BEARING VALUE U.N.O. = UNLESS NOTED OTHERWISE VAR. = VARIES

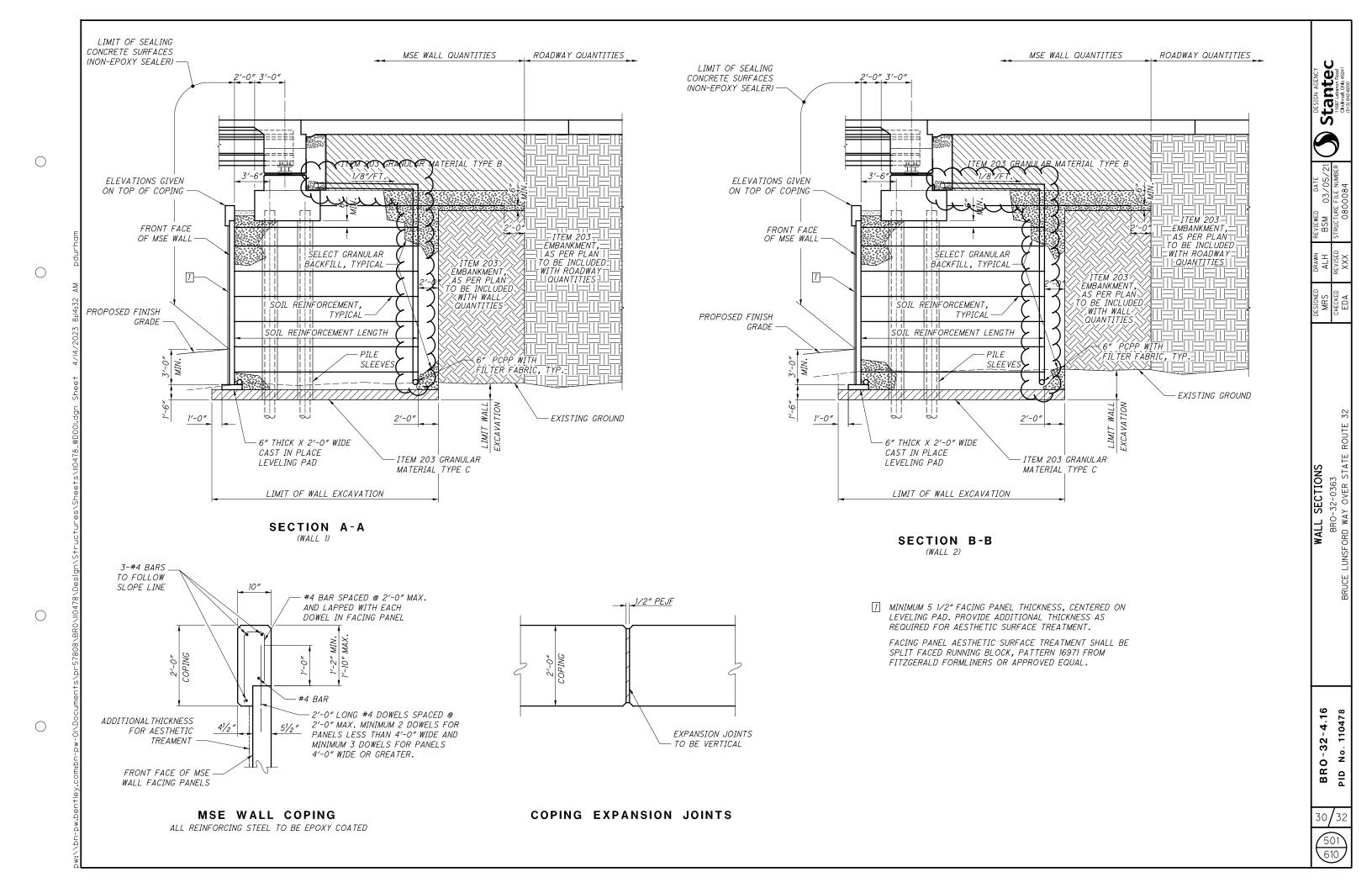
WWR = WELDED WIRE REINFORCEMENT

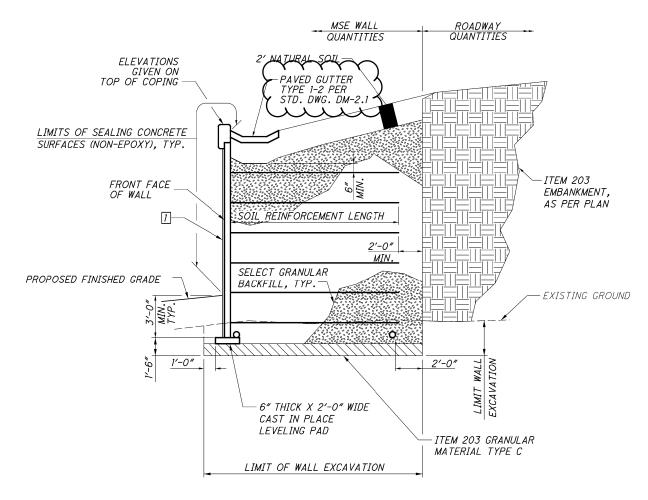
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NIPLE B = Planner









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SECTION C-C

MINIMUM 5 1/2" FACING PANEL THICKNESS, CENTERED ON LEVELING PAD. PROVIDE ADDITIONAL THICKNESS AS REQUIRED FOR AESTHETIC SURFACE TREATMENT.

FACING PANEL AESTHETIC SURFACE TREATMENT SHALL BE SPLIT FACED RUNNING BLOCK, PATTERN 16971 FROM FITZGERALD FORMLINERS OR APPROVED EQUAL.

	ESTIMATED QUANTITIES-WALL1							
	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SHEET #		
	203	20001	387	CY	EMBANKMENT, AS PER PLAN	32		
	203	35110	194	CY	GRANULAR MATERIAL, TYPE B			
	203	65000	2	EA	SPECIAL - SETTLEMENT PLATFORM	31		
	503	11100	LUMP	LS	COFFERDAMS AND EXCAVATION BRACING			
	512	10050	164	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)			
	\searrow							
Y	601	37500	60	FT	PAVED GUTTER, TYPE 1-2			
(N84D	2000	\702	VSFV.	MECHANICALLY STABILIZED EARTH WALL			
	840	21000	164	CY	WALL EXCAVATION			
	840	22000	394	SY	FOUNDATION PREPARATION			
	840	23000	1938	CY	SELECT GRANULAR BACKFILL			
	840	23050	135	CY	NATURAL SOIL			
	840	25010	309) FT	6" DRAINAGE PIPE, PERFORATED			
	840	25020 4	125) FT	6" DRAINAGE PIPE, NON-PERFORATED			
	840	26000	\J2X	FT	CONCRETE COPING			
	840	26050	1702	SF	AESTHETIC SURFACE TREATMENT			
	V840	X7080 Y	V2.5 (V PAY	ONESTAE AGSTANCEY			
Y	840	28000	LUMP	LS	SGB INSPECTION AND COMPACTION TESTING			
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	ESTIMATED QUANTITIES-WALL 2							
IT	ЕМ	EXTENSION	TOTAL	UNIT	DESCRIPTION	SHEET #		
20	23	20001	382	CY	EMBANKMENT, AS PER PLAN	32		
20	23	35110	194	CY	GRANULAR MATERIAL, TYPE B			
20	23	65000	2	EA	SPECIAL - SETTLEMENT PLATFORM	31		
50	23	11100	LUMP	LS	COFFERDAMS AND EXCAVATION BRACING			
5.	12	10050	182	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)			
				$\gamma\gamma$	M S			
60	01	37500	66	FT	PAVED GUTTER, TYPE 1-2			
₩	を	200box	71880	لحوك	MECHANICALLY STABILIZED CARTH WALL			
84	40	21000	393	CY	WALL EXCAVATION			
84	40	22000	411	SY	FOUNDATION PREPARATION			
84	40	23000	2031	CY	SELECT GRANULAR BACKFILL			
84	40	23050	164	CY	NATURAL SOIL			
84	40	25010	312) FT	6" DRAINAGE PIPE, PERFORATED			
84	40	25020 😽	128) FT	6" DRAINAGE PIPE, NON-PERFORATED			
84	40	26000	132°	FT	CONCRETE COPING			
84	40	26050	1890	SF	AESTHETIC SURFACE TREATMENT			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	XX	\$7000V	Y2:8	(VAY)	ON-SINE ASSISTANCEY			
Y 84	40	28000	LUMP	LS	SGB INSPECTION AND COMPACTION TESTING			
J	\sum		$\overline{\mathcal{I}}$					

MSE WALL NOTES:

- 1. MSE WALLS SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 840.
- 2. CONCRETE FACING PANELS SHALL NOT BE INSTALLED UNTIL BACKFILL MATERIAL HAS UNDERGONE THE SPECIFIED WAITING PERIOD TO ACCOMMODATE ANTICIPATED SETTLEMENT (SEE SETTLEMENT PLATFORM NOTES, SHEET 31/610).
- 3. FOR ITEM 203 EMBANKMENT, AS PER PLAN, SEE ROADWAY GENERAL NOTES FOR DETAILS.