

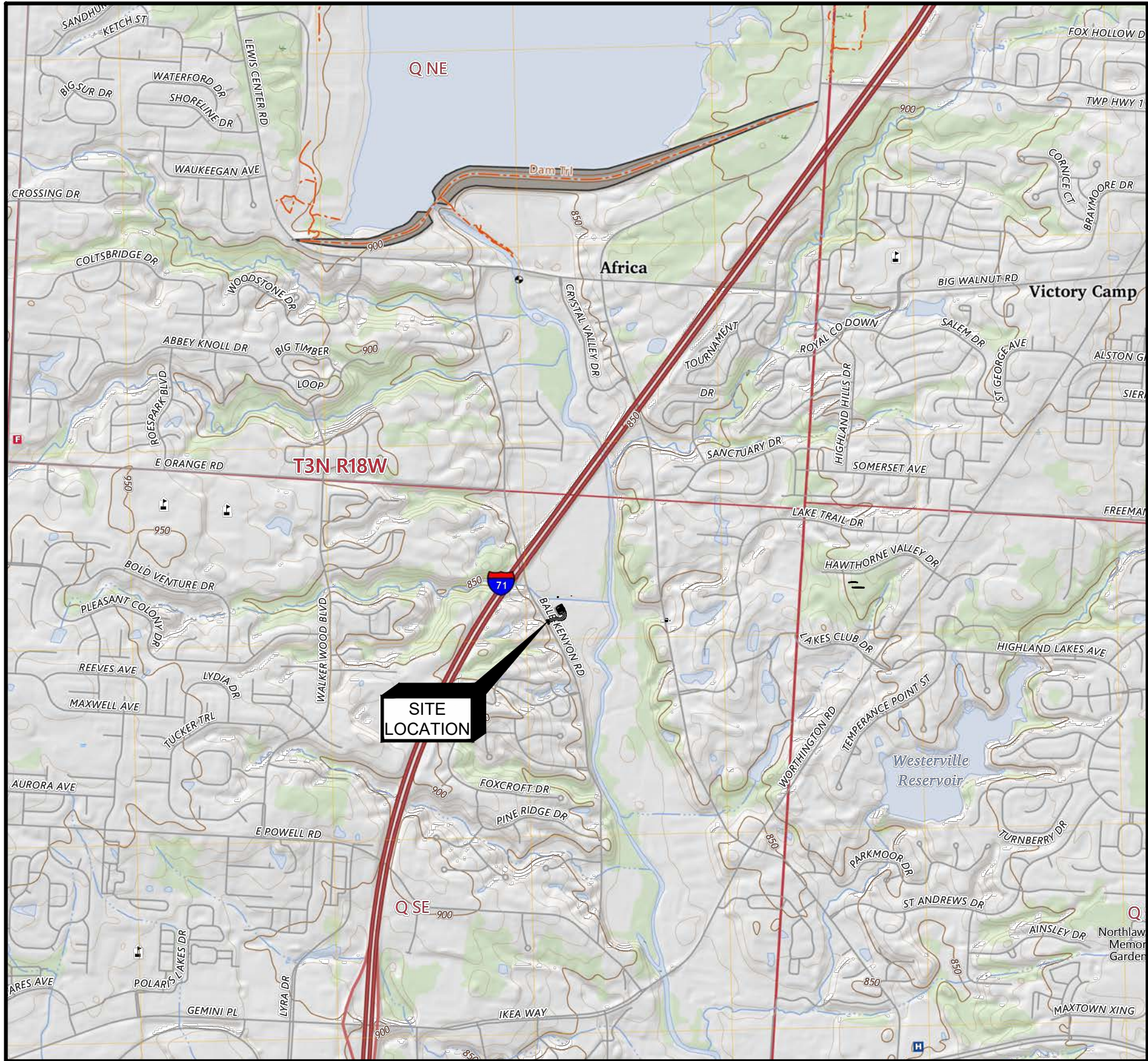
PRESERVATION PARKS OF DELAWARE COUNTY

MCCAMMON CREEK PARK

EAST AREA PARKING LOT AND PEDESTRIAN BRIDGE PROJECT

JUNE 2025

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SITE LOCATION
Parcel ID: 31841201004000
Lewis Center, OH 43035

PROJECT ENGINEER

BRIAN W. TORNES
PHONE (614) 459-2050



330 RUSH ALLEY
SUITE 700
COLUMBUS, OH 43215

VICINITY MAP

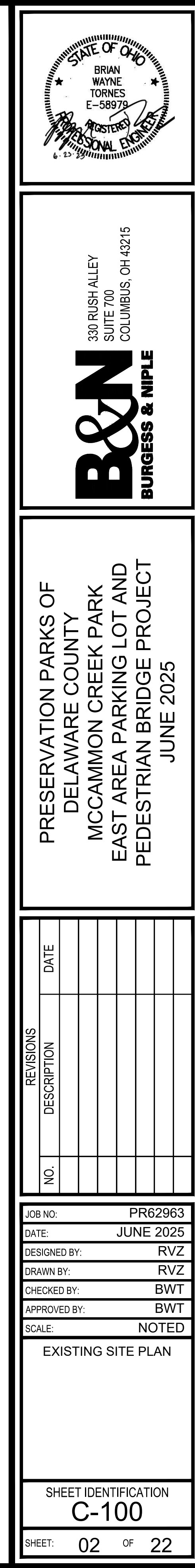
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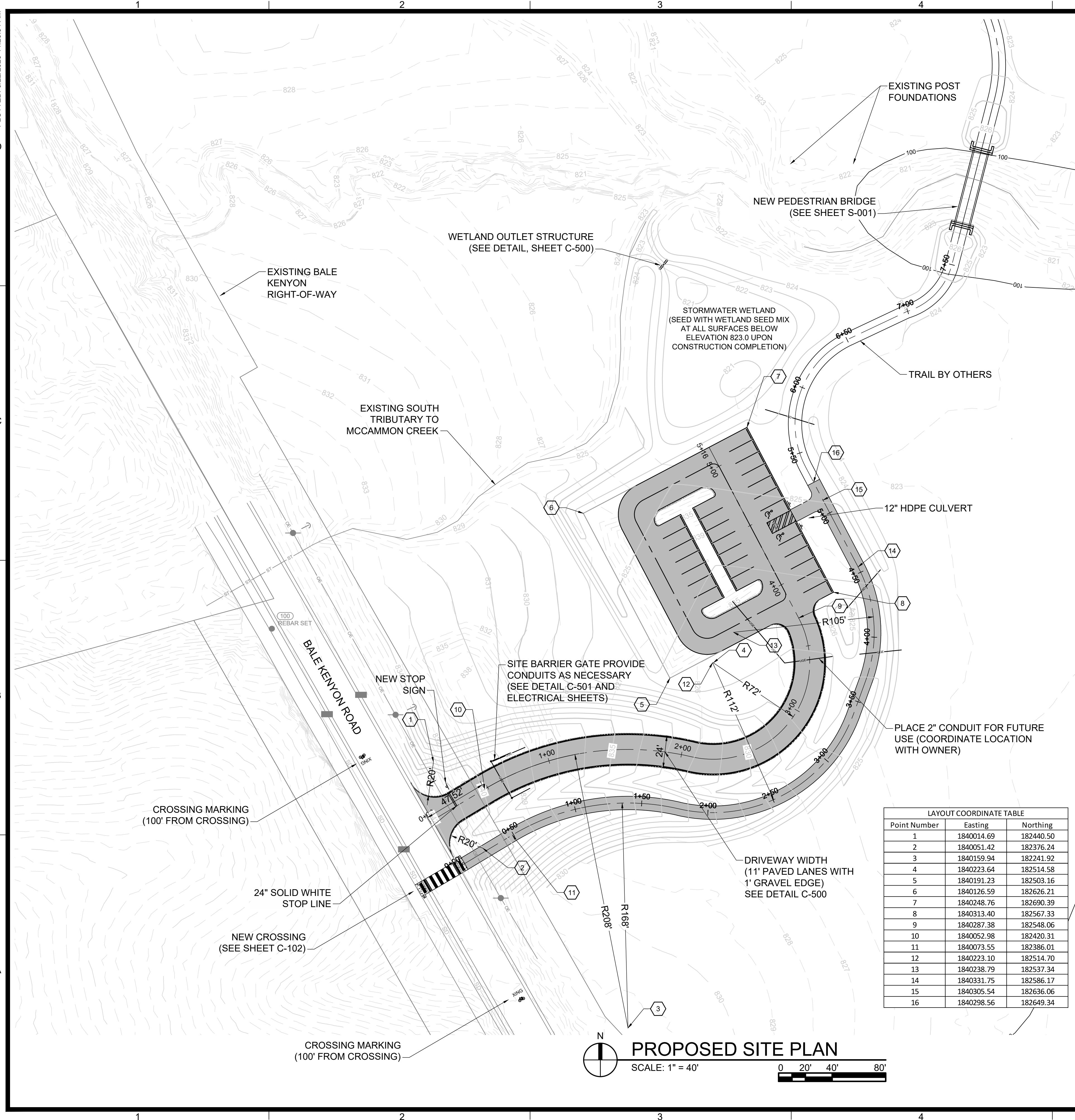
UNDERGROUND UTILITIES

2 WORKING DAYS
BEFORE YOU DIG

CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY



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GENERAL:

- SITE SECURITY AND SAFETY.** CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SECURITY AND SAFETY WITHIN THE WORK LIMITS THROUGH OUT CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE BARRICADES, CONSTRUCTION FENCING, SIGNAGE, SECURED TOOL BOXES AND STORAGE CONTAINERS AS NECESSARY TO SECURE THE SITE AND THEIR EQUIPMENT/TOOLS.
- SEDIMENT AND EROSION CONTROL.** CONTRACTOR SHALL FURNISH AND INSTALL THE SITE SEDIMENT AND EROSION CONTROL MEASURES PRIOR TO COMMENCEMENT OF EARTH MOVING ACTIVITIES AS SHOWN ON SHEET C-104.
- CONSTRUCTION UTILITIES.** CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY UTILITIES (PHONE, ELECTRIC, WATER, SEWER, GAS) AS NECESSARY FOR THEM TO COMPLETE THE PROJECT AS SHOWN. ALL TEMPORARY UTILITY EXTENSIONS, TRUCKING COSTS, TAP FEES, SERVICE FEES, GENERATORS, STORAGE TANKS, AND OTHER COSTS ASSOCIATED WITH PROVIDING SUCH UTILITIES TO THE JOB SITE SHALL BE AT THE CONTRACTORS EXPENSE AND INCLUDED IN THE PRICE BID FOR THE WORK.
- PERMITS.** APPROVALS WILL BE OBTAINED FROM THE COUNTY ENGINEER'S OFFICE FOR THE PROPOSED DRIVEWAY CONNECTION TO BALE KENYON ROAD AND MANAGEMENT OF STORMWATER ON THE SITE. COVERAGE UNDER THE OHIO ENVIRONMENTAL PROTECTION AGENCY'S GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FOR CONSTRUCTION STORMWATER DISCHARGE WILL ALSO BE OBTAINED. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THESE PERMITS/APPROVALS AS SHOWN ON THE PLANS OR SPECIFIED WITHIN THE PERMITS/APPROVALS.
- TRAFFIC CONTROL.** FOR THE DRIVEWAY CONNECTION TO BALE KENYON ROAD, THE CONTRACTOR SHALL PROVIDE TEMPORARY TRAFFIC CONTROL, INCLUDING SIGNS AND FLAGGERS AS APPROPRIATE WHEN WORKING WITHIN 10 FT. OF THE BALE KENYON ROADWAY. APPROVAL OF THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE OBTAINED FROM THE DELAWARE COUNTY ENGINEER'S OFFICE.
- THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING A MAINTENANCE OF TRAFFIC PLAN FOR ALL WORK IN OR ADJACENT TO BALE KENYON ROAD AND SHALL OBTAIN NECESSARY PERMITS/APPROVALS FROM THE COUNTY ENGINEER'S OFFICE AND ORANGE TOWNSHIP PRIOR TO WORK WITHIN THE ROAD RIGHT OF WAY.**
- PROJECT MEETINGS.** CONTRACTOR SHALL CONDUCT WEEKLY CONSTRUCTION PROGRESS MEETINGS WITH THE OWNER TO REVIEW CONSTRUCTION PROGRESS, QUESTIONS OR ISSUES THAT HAVE BEEN IDENTIFIED, AND THE ANTICIPATED WORK SCHEDULE.
- CONSTRUCTION SUBMITTALS.** CONTRACTOR SHALL SUBMIT ELECTRONICALLY IN .PDF FORMAT TO THE OWNER AND/OR ENGINEER FOR REVIEW THE FOLLOWING CONSTRUCTION SUBMITTALS:
 - EMBANKMENT AND BACKFILL FIELD DENSITY AND COMPACTION TEST RESULTS/REPORTS FROM A TESTING LABORATORY RETAINED BY THE CONTRACTOR THAT IS APPROVED BY THE OWNER.
 - PROPOSED AGGREGATE AND ASPHALT MATERIAL PRODUCT DATA SHEETS, INCLUDING CONFIRMATION OF ODOT APPROVAL OF ACCEPTANCE/CONFORMANCE OF THE PROPOSED SUPPLIER AND MATERIAL WITH THE APPROPRIATE ODOT SPECIFICATIONS FOR EMBANKMENT, AGGREGATES, ASPHALT SEED/MULCH, GEOTEXTILES, AND PAVEMENT MARKINGS.
 - PROPOSED MATERIALS AND INSTALLATION SHOP DRAWINGS FOR THE SIGNS, GUARD POSTS, STORM SEWERS, SEEDING, SILT FENCING, PAVEMENT MARKING.
 - MARKED-UP CONSTRUCTION DRAWINGS SHOWING THE AS-BUILT CONDITIONS INCLUDING CHANGES TO THE ORIGINAL DESIGN AND ANY UTILITIES OR ITEMS DISCOVERED DURING CONSTRUCTION THAT WERE NOT SHOWN ON THE ORIGINAL PLANS.
- ODOT SPECIFICATIONS.** THE REFERENCED ODOT SPECIFICATION ITEM NUMBERS, INCLUDING THOSE CROSS REFERENCED WITHIN THE NOTED ODOT ITEM NUMBER, SHALL BE WITHIN THE LATEST EDITION OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND CONSIDERED A PART OF THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL ASPECTS OF THE REFERENCED ODOT SPECIFICATIONS EXCEPT THAT THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETAINING AN APPROVED MATERIALS TESTING LABORATORY THAT IS ACCEPTABLE TO THE OWNER. THE COSTS FOR ALL MATERIAL TESTING REFERENCED IN THE ODOT SPECIFICATIONS SHALL BE COMPLETED BY THE CONTRACTOR'S TESTING LABORATORY AND THE COSTS FOR SUCH TESTING INCLUDED IN THE CONTRACTOR'S BID. AT A MINIMUM THIS SHALL INCLUDE THE FOLLOWING:
 - OBSERVATION BY A REPRESENTATIVE OF THE TESTING LABORATORY CONTINUOUSLY DURING ALL PLACEMENT AND COMPACTION ACTIVITIES ARE OCCURRING ON-SITE, INCLUDING PAVING OPERATIONS, TO DETERMINE COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS.
 - MOISTURE DENSITY RELATIONSHIP OF ALL MATERIALS TO BE COMPACTED.
 - FIELD MOISTURE AND DENSITY (ASTM D 1556 OR D 2922) OF THE PAVED AREAS TO VERIFY THE STRENGTH AND DEGREE OF COMPACTION BEING OBTAINED. CONDUCT SUCH TEST AT A MINIMUM OF ONE FIELD DENSITY TEST FOR EVERY 2,000 SQUARE FEET, BUT IN NO CASE LESS THAN THREE. FOR EMBANKMENTS ONE FIELD DENSITY TEST SHALL BE CONDUCTED AT A MINIMUM OF ONCE EVERY 50 CUBIC YARDS OR FRACTION THEREOF BEING INSTALLED, AND AT LEAST ONE TEST PER LIFT.
- SUGRADE PREPARATION.** IF THE SUBGRADE, BACKFILL, OR EMBANKMENT IS BELOW SPECIFIED DENSITY PROVIDE ADDITIONAL COMPACTION AND TESTING AT NO ADDITIONAL COST TO THE OWNER.
- SETTLING.** WHERE SETTILING IS MEASURABLE OR OBSERVABLE DURING THE PROJECT WARRANTY PERIOD, REMOVE THE SURFACE (PAVEMENT, LAWN OR OTHER FINISH) ADD BACKFILL, COMPACT, AND REPLACE THE SURFACE AT NO COST TO THE OWNER.

SEEDDED AREAS:

- GRADING AND SEEDING.** ALL AREAS DISTURBED OR DAMAGED BY THESE CONSTRUCTION ACTIVITIES, WHICH ARE NOT OTHERWISE NOTED TO BE COVERED WITH GRAVEL OR PAVEMENT SHALL BE FINISH GRADED. GRADING SHALL BE PROVIDED TO ENSURE POSITIVE SITE DRAINAGE AWAY FROM STRUCTURES, BUILDINGS, AND DRIVEWAYS AND BE SUCH THAT THERE WILL BE NO PONDING OR STANDING WATER FOLLOWING PRECIPITATION EVENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING AREAS WITHIN 10 FEET OF ALL NEW PAVED AREAS. SEEDING AND MULCHING SHALL BE IN ACCORDANCE WITH ODOT ITEM 659, CLASS 4A NATIVE GRASS SEED MIX.
- TOPSOIL SHALL BE REMOVED AND TEMPORARILY STOCKPILED ON SITE FROM UNDER ALL EMBANKMENT AND PAVED AREAS. SUCH TOPSOIL SHALL BE REUSED ON THE SURFACE TO ACHIEVE FINISHED GRADE OF AREAS TO BE SEEDDED. PROVIDE A MINIMUM OF 4-INCHES OF TOPSOIL AT THE SURFACE OF ALL AREAS TO BE SEEDDED. REMOVE ROCK AND OTHER FOREIGN MATERIAL 3 INCHES OR GREATER IN ANY DIMENSION FROM THE TOPSOIL.**
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE SEEDDED AREAS AND THE MULCH UNTIL SUCH TIME THAT THE SPECIFIED SEEDING HAS GERMINATED AND IS ALIVE AND HEALTHY WITH FULL COVERAGE OF THE SEEDDED AREA. FERTILIZE, WATER AND RESEED/MULCH, AS NECESSARY TO ENSURE FULL COVERAGE OF THE PROPOSED VEGETATION.**
- WETLAND SEED MIX.** SEED THE WETLAND AREA WITH SEED MIX ERNMX 120 @ 20 LB/ACRE.

PAVING NOTES:

- SUBGRADE COMPACTION.** ALL PAVEMENT SUBGRADES SHALL BE COMPACTED TO A DEPTH OF 12 INCHES. SUBGRADE SOILS WITH A MAXIMUM DRY DENSITY OF LESS THAN 100 POUNDS PER CUBIC FOOT ARE CONSIDERED UNSUITABLE FOR USE IN THE UPPER 12 INCHES BELOW PAVEMENT AND SHALL BE REPLACED WITH SUITABLE MATERIAL WHEN ENCOUNTERED IN THE UPPER 12 INCHES. SOIL SUBGRADE WITH A MAXIMUM DRY DENSITY OF 100 TO 105 POUNDS PER CUBIC FOOT SHALL BE COMPACTED TO NOT LESS THAN 102 PERCENT OF MAXIMUM DRY DENSITY. ALL OTHER SUBGRADE SOILS SHALL BE COMPACTED TO NOT LESS THAN 100 PERCENT OF MAXIMUM DRY DENSITY. MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND 3 PERCENTAGE POINTS ABOVE OPTIMUM.
- PROOF ROLLING.** FOLLOWING SUBGRADE COMPACTION, THE CONTRACTOR SHALL PROOF ROLL ALL PAVEMENT SUBGRADES IN ACCORDANCE WITH ODOT ITEM 203.14, EXCEPT THAT A PNEUMATIC TIRE VEHICLE WITH A MINIMUM GROSS LOAD OF 25 TONS MAY BE USED IN PLACE OF THE EQUIPMENT SPECIFIED BY ODOT ITEM 203.14. THE EXPOSED SUBGRADE SHALL BE ROLLED WITH AT LEAST 2 COVERAGES OF THE VEHICLE. ANY SOFT OR WEAK AREAS SHALL BE REMOVED AND CORRECTED PER ODOT ITEM 203.13.

OFF-SITE SOIL:

- AN ADDITIONAL 1,500 CY OF SOIL WILL BE DELIVERED TO THE SITE BY ORANGE TOWNSHIP FOR USE BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT OF THE SOIL WHERE NEEDED TO COMPLETE THE WORK AS SHOWN. ANY EXCESS SOIL SHALL BE STOCKPILED/SPOILED ON-SITE IN A LANDSCAPING BERM AS DIRECTED BY THE OWNER.**



330 RUSH ALLEY
SUITE 700
COLUMBUS, OH 43215

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JUNE 2025

NO.	REVISIONS DESCRIPTION	DATE

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DATE:	JUNE 2025
DESIGNED BY:	RVZ
DRAWN BY:	RVZ
CHECKED BY:	BWT
APPROVED BY:	BWT
SCALE:	NOTED

PROPOSED SITE PLAN

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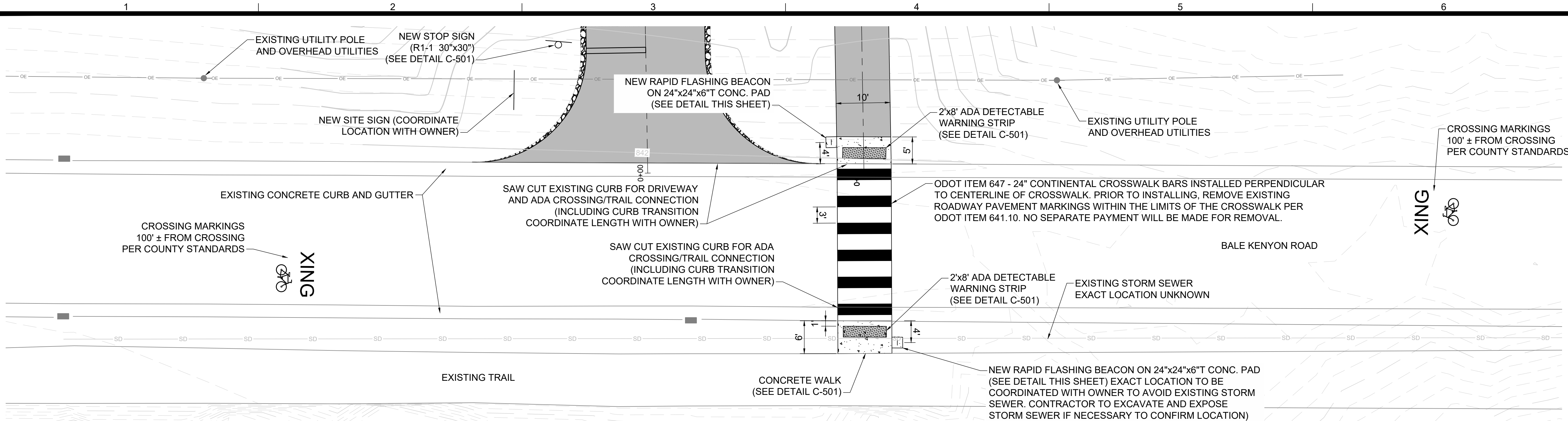
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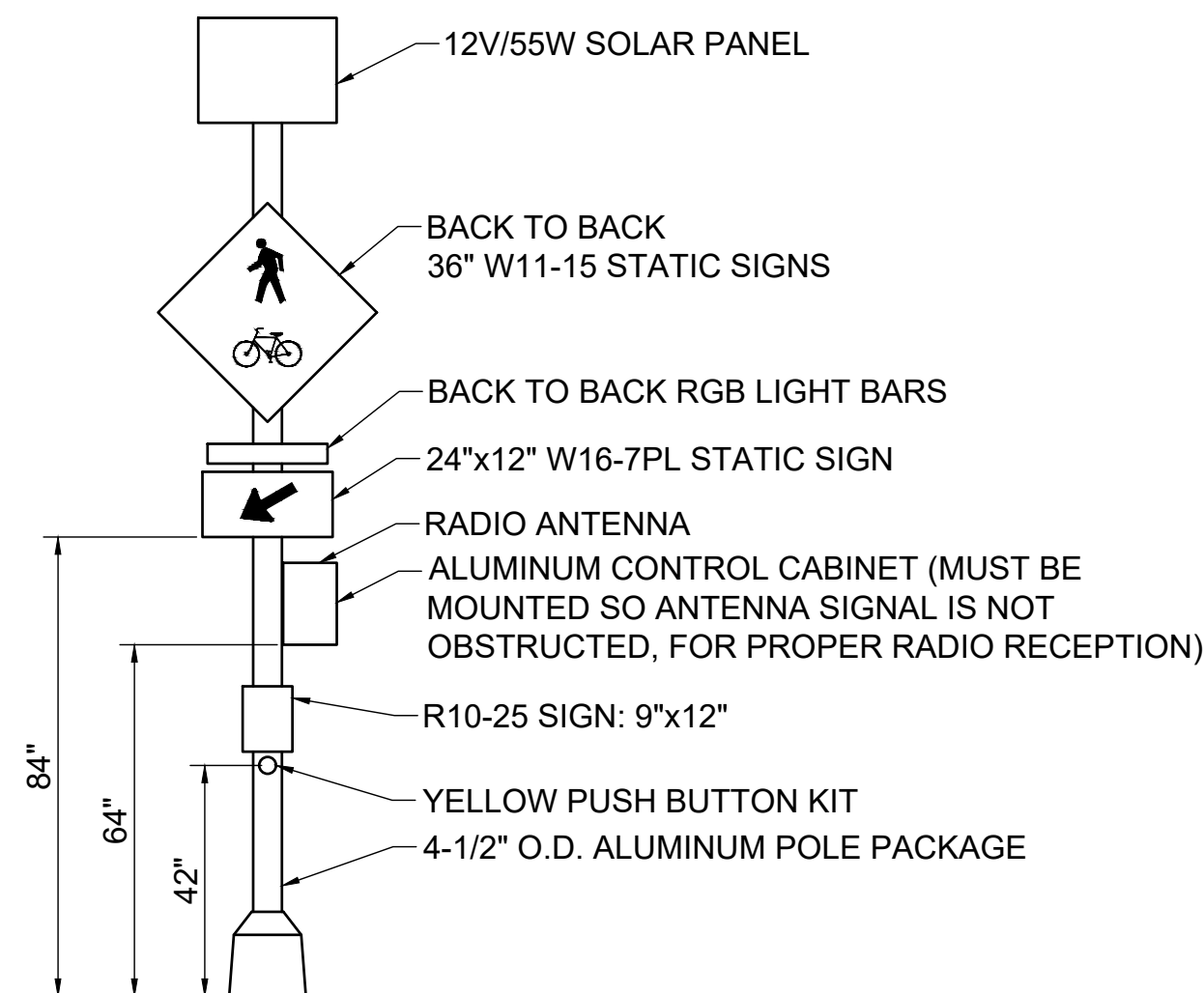


PROPOSED CROSSING PLAN
SCALE: 1" = 10'

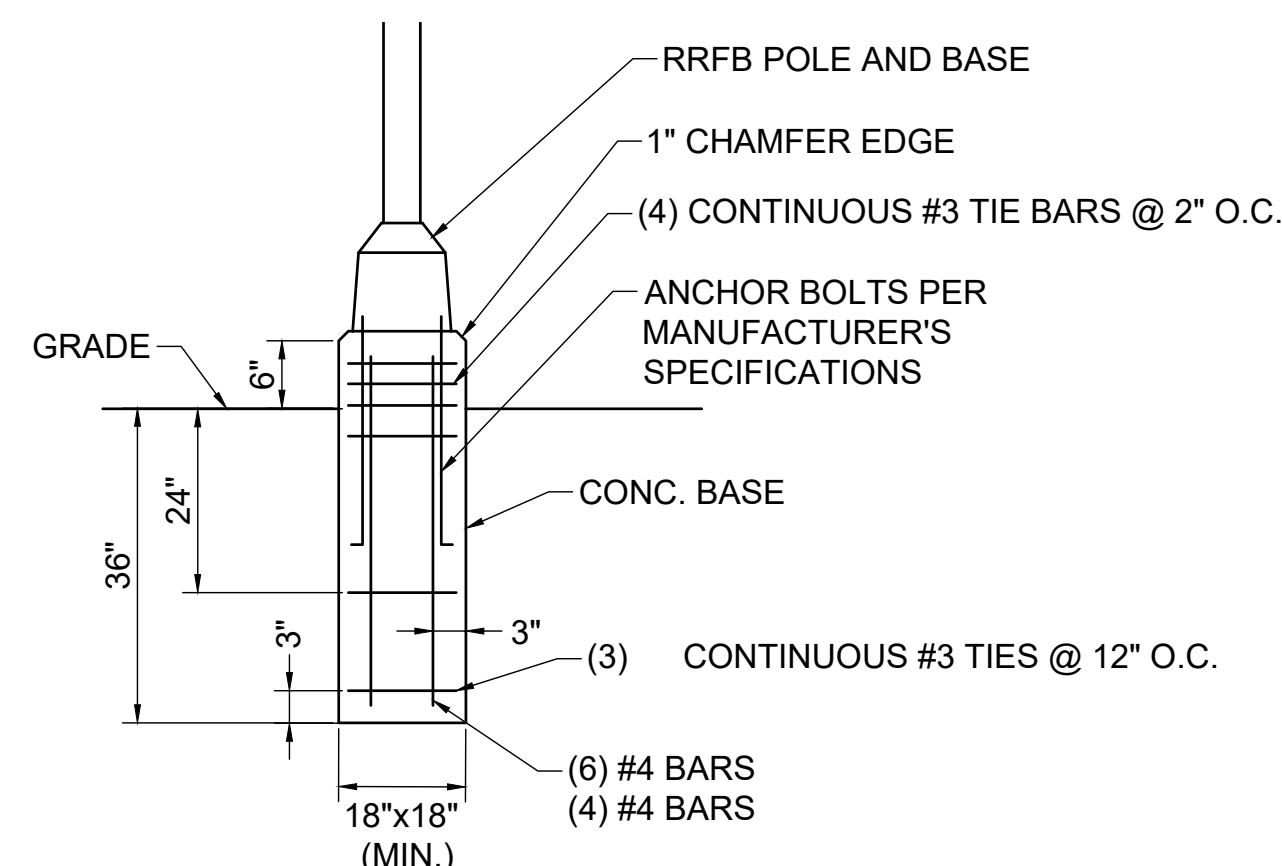
ITEM SPECIAL-SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLIES & FOUNDATIONS COMPLETE

- THE PRIMARY FUNCTION OF THE RRFB CROSSWALK SYSTEM IS TO PROVIDE A HIGHLY VISIBLE, ENHANCED WARNING FOR THE PURPOSE OF ALERTING ROAD USERS FROM BOTH TRAFFIC DIRECTIONS OF THE ACTIVE PEDESTRIAN AND BICYCLE CROSSING
- THE MANUFACTURER SHALL PROVIDE COMPONENTS FOR A SOLAR POWERED WARNING RRFB CROSSWALK SYSTEMS. COMPONENTS INCLUDE: RRFB LIGHT BARS, BULLDOG PUSH BUTTONS WITH AUDIBLE INDICATORS, SOLAR PANELS, CONTROL CABINETS WITH FLASH CONTROLLERS, WIRELESS TRANSCIEVERS, AND BATTERIES, MOUNDING HARDWARE, STATIC SIGNAGE, AND POLE PACKAGES.
- ACTIVE VEHICLE WARNING INDICATORS SHALL BE VISIBLE IN A DIRECT LINE OF SIGHT AT DISTANCES OVER 1000 FEET DURING THE DAY AND OVER 1 MILE AT NIGHT.
- EACH PEDESTRIAN CROSSWALK SYSTEM SHALL CONSIST OF THE FOLLOWING:
 - 2 SEPARATE SIGN ASSEMBLIES, ONE INSTALLED ON EACH SIDE OF THE ROADWAY.
 - RRFB LIGHT BAR WARNING ASSEMBLIES
 - SOLAR POWERED CON TROLL CABINETS WITH FLASH CONTROLLERS AND WIRELESS TRANSCIEVERS.
 - 55W SOLAR PANELS
 - 48 AH BATTERIES
 - PUSH BUTTON ACTIVATIONS WITH RED LED AND BEEP CONFIRMATION WHEN PRESSED.
 - FOUNDATIONS FOR EACH POLE/PEDESTAL.
 - ALL MOUNTING AND OTHER HARDWARE.
 - ALL SIGNAGE AS SHOWN OR DESCRIBED HEREIN (COLOR TO BE DG3FY, EXCEPT FOR R10-25, WHICH IS WHITE).
- UPON ACTIVATION BY PUSH BUTTON, THE RRFB CONTROLLERS SHALL ACTIVATE ALL RRFB LIGHT BARS IN THE SYSTEM SIMULTANEOUSLY, RRFB LIGHT BARS SHALL FLASH SYNCHRONOUSLY AND THEN CEASE OPERATION AFTER A PROGRAMMABLE TIMEOUT.
- THE CONTROL CABINET SHALL BE NEMA 3R, 15 TALL X 12.5 WIDE X 9.9 DEEP AND CONSTRUCTED OF 0.08 THICK ALUMINUM. TO PROMOTE AIRFLOW, THE CABINET SHALL BE VENTED WITH SCREENING INCLUDED ON ALL VENTS AND DRAINS TO PREVENT INSECTS AND OTHER FOREIGN MATTER FROM ENTERING. THE CABINET SHALL INCLUDE AT LEAST TWO (2) TAMPER-RESISTANT STAINLESS STEEL HINGES AND A REPLACEABLE #2 TRAFFIC LOCK WITH KEYS (4 SETS TO BE PROVIDED). THE CABINET SHALL INCLUDE A REMOVABLE CONTROL PANEL TO WHICH ALL CONTROL CIRCUIT COMPONENTS EITHER MOUNT OR CONNECT. ALL MATERIALS USED IN THE CONSTRUCTION OR MOUNTING OF THE CONTROL CABINET SHALL BE APPLIED TO THE EXTERIOR OF THE CABINET AND INCLUDE SYSTEM SPECIFIC INFORMATION INCLUDING MODEL NUMBER, SERIAL NUMBER, DATE OF MANUFACTURE, AS WELL AS ANY APPLICABLE REGULATORY COMPLIANCE INFORMATION.
- THE RRFB PROGRAMMABLE FLASH CONTROLLER SHALL BE HOUSED IN THE CONTROL CABINET AND SHALL INCLUDE INTEGRATED CONSTANT-CURRENT LED DRIVERS WITH A MINIMUM OF TWO-CHANNEL OUTPUT FOR DRIVING ONE OR TWO RRFB UNITS, SHALL AUTOMATICALLY ADJUST EH LED DRIVE CURRENT CONTROL TO OPTIMIZE BRIGHTNESS FOR AMBIENT LIGHTING CONDITIONS DETERMINED BY THE PHOTOTRANSISTOR INPUT, SHALL INCLUDE AT LEAS TWO (2) GENERAL PURPOSE INPUTS AND OUTPUTS, SHALL BE INDEPENDENTLY REPLACEABLE OF TO THE CONTROL PANEL COMPONENTS, SHALL BE ABLE TO MONITOR INTERNAL TEMPERATURE, SHALL HAVE CAPABILITY OF RS232 COMMUNICATION FOR PROGRAMMING WITH WINDOWS-BASED SOFTWARE, AND SHALL BE CAPABLE OF OPERATING BETWEEN THE TEMPERATURES OF -40 F TO +176 F.
- THE SYSTEM SHALL OPERATE WIRELESSLY AT 900 MHZ, UTILIZING FREQUENCY HOPPING SPREAD SPECTRUM TECHNOLOGY TO MINIMIZE THE EFFECTS OF EXTERNAL RF INTERFERENCE. EACH UNIT SHALL BE CAPABLE OF OPERATING AS THE GATEWAY OR THE NODE/REPEATER. THE SYSTEM COMPONENTS SHALL BE SYNCHRONIZED TO OPERATE WITHIN 120 MSEC OF ONE ANOTHER AND REMAIN SYNCHRONIZED THROUGHOUT THE DURATION OF THE FLASH CYCLE. THE SYSTEM SHALL OPERATE ON A LICENSE-FREE ISM BAND, SHALL COMPLY WITH PART 15 PF FCC RULES, SHALL OPERATE FROM 3.3VDC TO 15VDC, AND SHALL BE REPLACEABLE INDEPENDENTLY OF OTHER COMPONENTS.
- THE SOLAR CHARGE CONTROLLER SHALL AUTOMATICALLY PROVIDE LOW VOLTAGE DISCONNECT TO PROTECT BATTERIES WHEN NEEDED, SHALL AUTOMATICALLY PROVIDE LOAD RECONNECTION ONCE BATTERY LEVELS HAVE BE RESTORED TO ACCEPTABLE LEVELS, SHALL PROTECT AGAINST AND AUTOMATICALLY RECOVER FROM SHORT CIRCUIT, OVERLOAD, REVERSE POLARITY, HIGH TEMPERATURE, LIGHTING AND TRANSIENT SURGE, AS WELL AS VOLTAGE SPIKES. THE UNIT SHALL OPERATE BETWEEN -40 F TO +140 F. THE UNIT SHALL BE INDEPENDENTLY REPLACEABLE OF OTHER CONTROL PANEL COMPONENT.

- THE SOLAR PANEL SHALL OPERATE AT 12VDC NOMINAL WITH A MAXIMUM OUTPUT RATING OF 55 WATTS. IT SHALL OPERATE BETWEEN -40 F TO +194 F. THE PANEL SHALL BE CONSTRUCTED OF AN ANODIZED ALUMINUM FRAM, HIGH-TRANSMISSION 1 /8 TEMPERED GLASS, SILICON CELLS ENCAPSULATE DIN DOUBLE-LAYER EVA, AND WITH A WHITE POLYMER BACKING. THE PANELS SHALL BE AFFIXED TO A POLE TOP BRACKET THAT ALLOWS AN ADJUSTABLE ANGLE TO PROVIDE MAXIMUM INSOLATION EXPOSURE. THE PANEL SHALL BE IEC61215, TUV, AND UL 1703 CERTIFIED. ALL SOLAR PANEL FASTENERS SHALL BE ANTI-VANDAL POINT-TYPE SET SCREWS. FOUR (4) WRENCHES SHALL BE PROVIDED.
- THE BATTERIES SHALL HAVE A NOMINAL OUTPUT VOLTAGE OF 12VDC WITH A CAPACITY OF 48AH. THEY SHALL BE HOUSED IN THE CONTROL CABINET. THEY SHALL BE RECHARGEABLE TYPE ABSORBENT GLASS MAT. THEY SHALL BE SEALED AND SPILL-PROOF. THEY SHALL BE FUSED FOR SHORT CIRCUIT PROTECTION. BATTERIES SHALL BE REPLACEABLE INDEPENDENTLY FROM OTHER COMPONENTS.
- THE RRFB LIGHT BAR SHALL BE IN CONFORMANCE WITH ALL APPLICABLE FHGWA MUTCD STANDARDS AND GUIDELINES AND SHALL MEET OR EXCEED THE REQUIREMENTS SPECIFIED IN FHWA MEMORANDUM IA-21, INTERIM APPROVAL FOR OPTIONAL USE OF PEDESTRIAN-ACTUATED (RRBS) AT UNCONTROLLED MARKED CROSSWALKS. EACH LIGHT BAR SHALL INCLUDE TWO (2) RAPIDLY AND ALTERNATELY FLASHING RECTANGULAR YELLOW LED ARRAY VEHICLE INDICATIONS AND ONE SIDE-MOUNTED YELLOW LED ARRAY PEDESTRIAN INDICATIONS. THE LED ARRAYS SHALL BE DESIGNED, LOCATED AND OPERATED IN ACCORDANCE WITH THE DETAILED REQUIRED AS SPECIFIED IN THESE PLANS. WHEN ACTIVATED, THE LIGHT SHALL BE VISIBLE FROM AT LEAST 1000 FEET DURING THE DAY AND AT LEAST 1 MILE AT NIGHT. THE LIGHT BAR SHALL BE HOUSED IN A DURABLE CORROSION-RESISTANT, POWDER COATED ALUMINUM WITH STAINLESS STEEL VANDAL RESISTANT FASTENERS. THE UNITS SHALL HAVE ENCLOSED COMPONENTS THAT ARE MODULAR IN DESIGN WHEREBY ANY COMPONENT CAN BE EASILY REPLACED WITHOUT HAVING TO UNINSTALL THE RRFB ASSEMBLY. THE OVERALL DIMENSION SHALL BE APPROXIMATELY 23.6 WIDE X 3.8 HIGH X 1.4 DEEP.
- THE PUSH BUTTONS SHALL BE VANDAL RESISTANT AND ADA COMPLIANT, HAVE A SHALL OPERATING VOLTAGE OF 12-36VDC, AND HAVE A PEAK CURRENT DRAW OF APPROXIMATELY 350MH AND LOW IDLE CURRENT OF APPROXIMATELY 1.2 MA, AND OPERATE FROM -30 F TO +165 F. ACTIVATION CONFIRMATION SHALL BE VIA RED LED AND BEEP CONFIRMATION WHEN BUTTON IS PRESSED. THE BUTTON SHALL BE 316 STAINLESS STEEL. THE HOUSING SHALL BE ALUMINUM POWDER-COATED (YELLOW). THE APPROXIMATE SIZE IS 3.5 IN DIAMETER BY 1 DEEP.
- STATIC WARNING SIGNS SHALL HAVE MUTCD COMPLIANT SIGN LEGEND
- THE POLE (PEDESTAL) PACKAGE SHALL INCLUDE A 14-FOOT WALL TALL SCH 40 ALUMINUM POLE AND BASE WITH 8.5 SQUARE HAND-HOLE AND COVER (TP-358 CAST ALUMINUM THAT MOUNTS ON A 5000 PSI CONCRETE FOUNDATION).
- A 3-YEAR MANUFACTURER'S UNCONDITIONAL WARRANTY SHALL BE PROVIDED AGAINST ALL DEFECTS IN MATERIAL AND WORKMANSHIP.
- MANUFACTURER/SUPPLIER: TAPCO, INC., OR EQUAL.



2 SOLAR POWERED RRFB ASSEMBLY
SCALE: NOT TO SCALE



1 SOLAR POWERED RRFB FOUNDATION
SCALE: NOT TO SCALE



330 RUSH ALLEY
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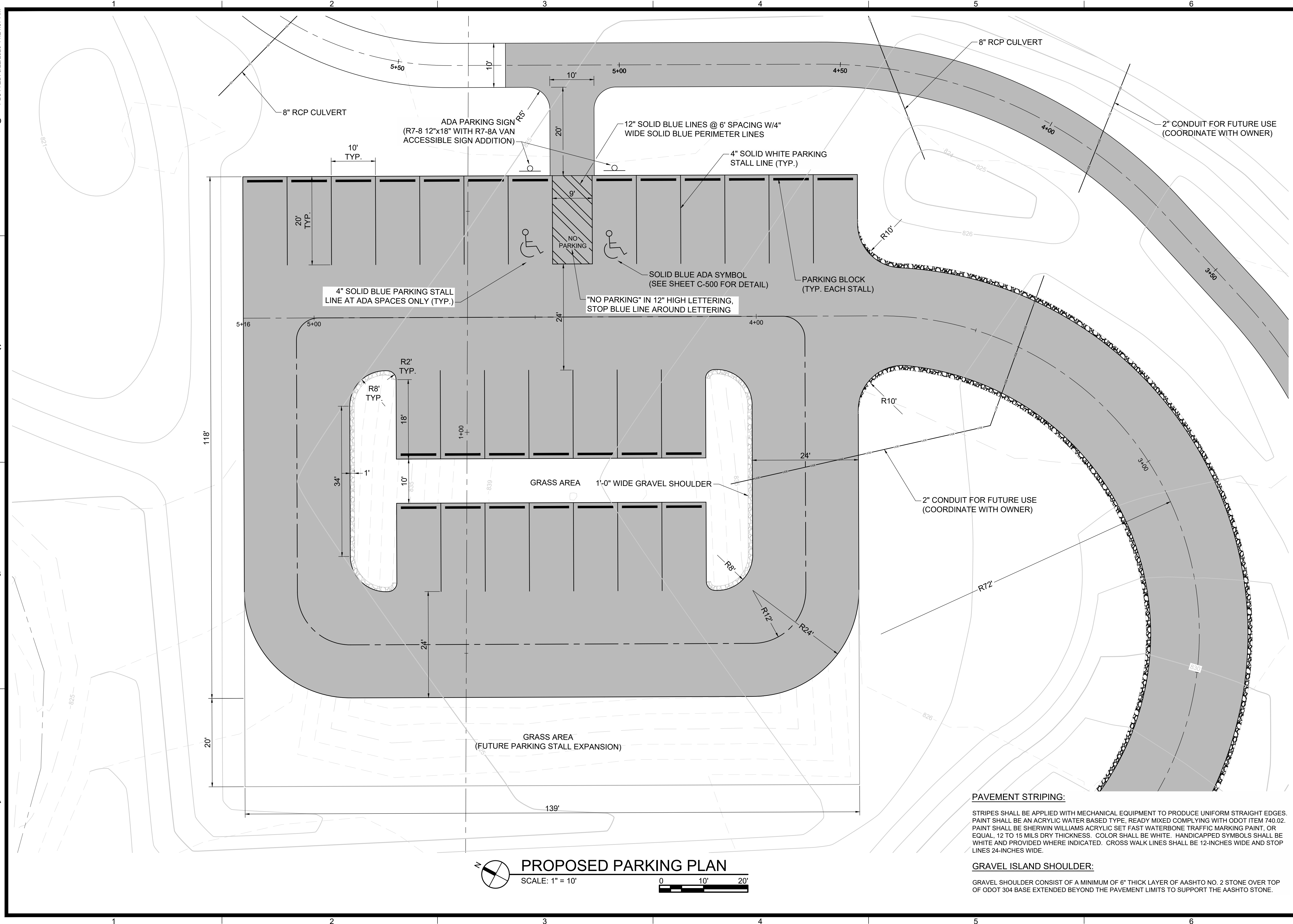
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DRAWN BY:	RVZ
CHECKED BY:	BWT
APPROVED BY:	BWT
SCALE:	NOTED

PROPOSED BALE KENYON
CROSSING

SHEET IDENTIFICATION
C-102

SHEET: **04** OF **22**

P:\PR62963\06 CAD\Sheets\C-103 PARKING LOT PLAN.dwg 6/13/2025 1:03:30 PM Ryan VanZandt PLOTTED: 6/22/2025 11:24:57 AM



PROPOSED PARKING PLAN
SCALE: 1" = 10'

PAVEMENT STRIPING:
STRIPES SHALL BE APPLIED WITH MECHANICAL EQUIPMENT TO PRODUCE UNIFORM STRAIGHT EDGES. PAINT SHALL BE AN ACRYLIC WATER BASED TYPE, READY MIXED COMPLYING WITH ODOT ITEM 740.02. PAINT SHALL BE SHERWIN WILLIAMS ACRYLIC SET FAST WATERBORNE TRAFFIC MARKING PAINT, OR EQUAL, 12 TO 15 MILS DRY THICKNESS. COLOR SHALL BE WHITE. HANDICAPPED SYMBOLS SHALL BE WHITE AND PROVIDED WHERE INDICATED. CROSS WALK LINES SHALL BE 12-INCHES WIDE AND STOP LINES 24-INCHES WIDE.

GRAVEL ISLAND SHOULDER:
GRAVEL SHOULDER CONSIST OF A MINIMUM OF 6" THICK LAYER OF AASHTO NO. 2 STONE OVER TOP OF ODOT 304 BASE EXTENDED BEYOND THE PAVEMENT LIMITS TO SUPPORT THE AASHTO STONE.

STATE OF OHIO
BRIAN WAYNE TORNES
E-58979
PROFESSIONAL ENGINEER
6-23-20

330 RUSH ALLEY
SUITE 700
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PARKING LOT PLAN

SHEET IDENTIFICATION

C-103

SHEET: 05 OF 22

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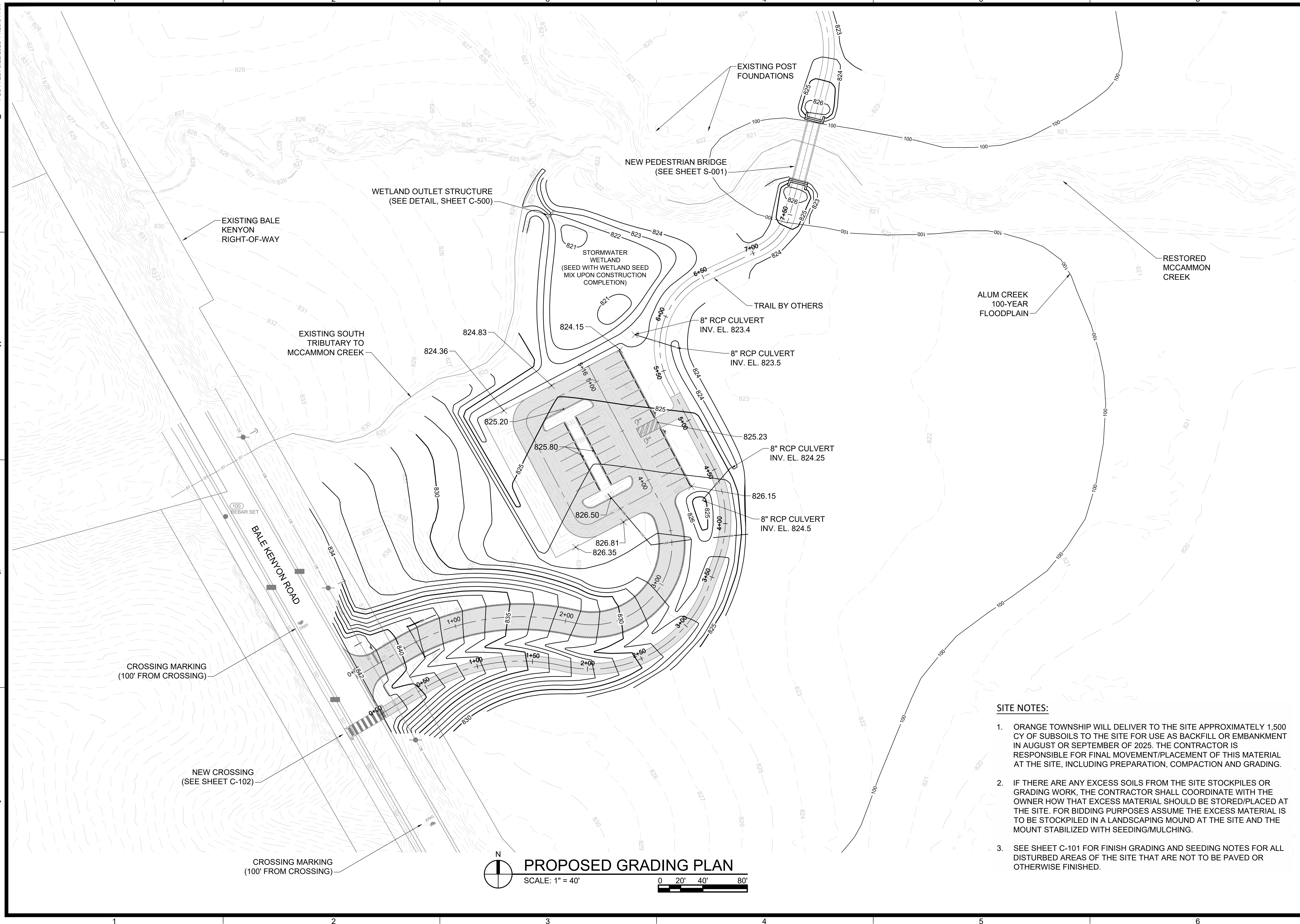
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SITE NOTES:

- ORANGE TOWNSHIP WILL DELIVER TO THE SITE APPROXIMATELY 1,500 CY OF SUBSOILS TO THE SITE FOR USE AS BACKFILL OR EMBANKMENT IN AUGUST OR SEPTEMBER OF 2025. THE CONTRACTOR IS RESPONSIBLE FOR FINAL MOVEMENT/PLACEMENT OF THIS MATERIAL AT THE SITE, INCLUDING PREPARATION, COMPACTION AND GRADING.
- IF THERE ARE ANY EXCESS SOILS FROM THE SITE STOCKPILES OR GRADING WORK, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER HOW THAT EXCESS MATERIAL SHOULD BE STORED/PLACED AT THE SITE. FOR BIDDING PURPOSES ASSUME THE EXCESS MATERIAL IS TO BE STOCKPILED IN A LANDSCAPING MOUND AT THE SITE AND THE MOUNT STABILIZED WITH SEEDING/MULCHING.
- SEE SHEET C-101 FOR FINISH GRADING AND SEEDING NOTES FOR ALL DISTURBED AREAS OF THE SITE THAT ARE NOT TO BE PAVED OR OTHERWISE FINISHED.



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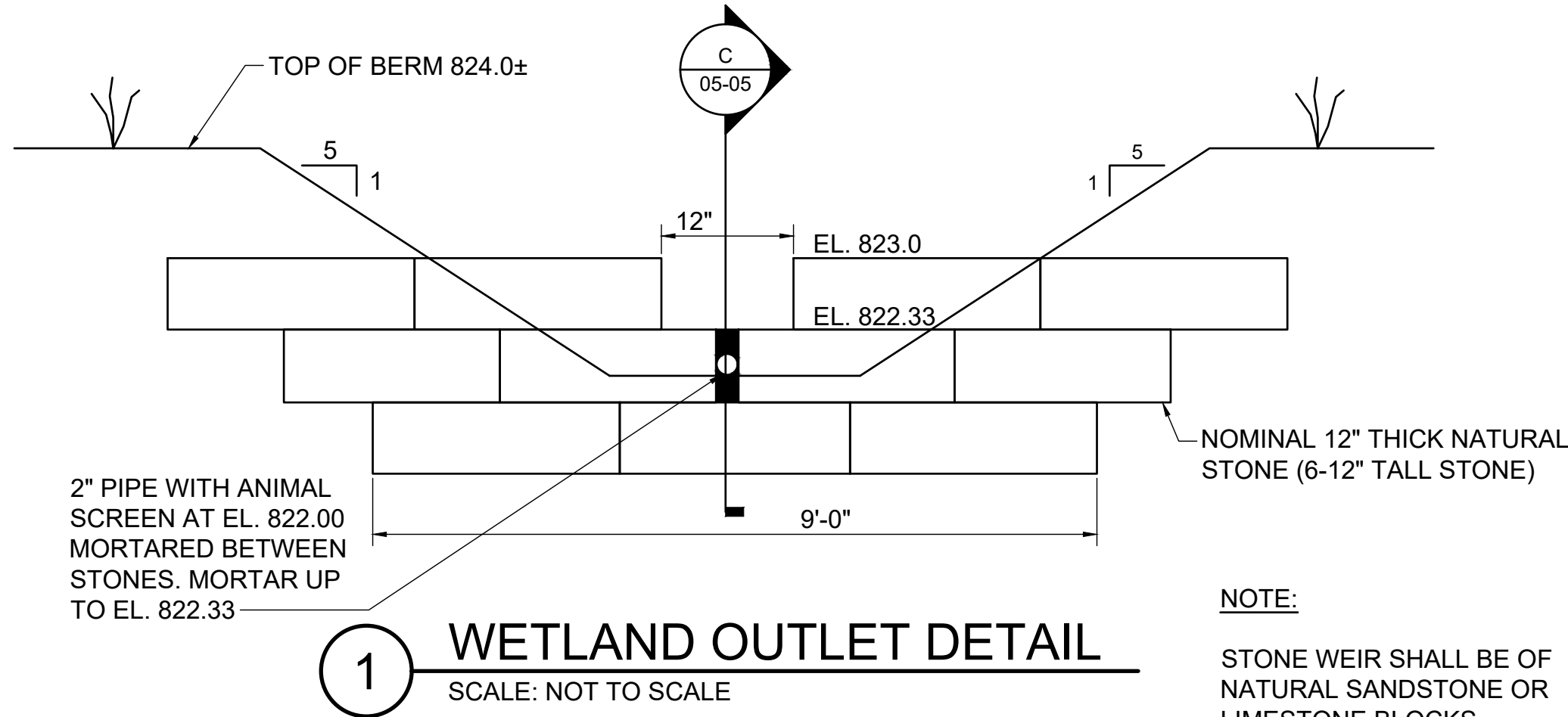
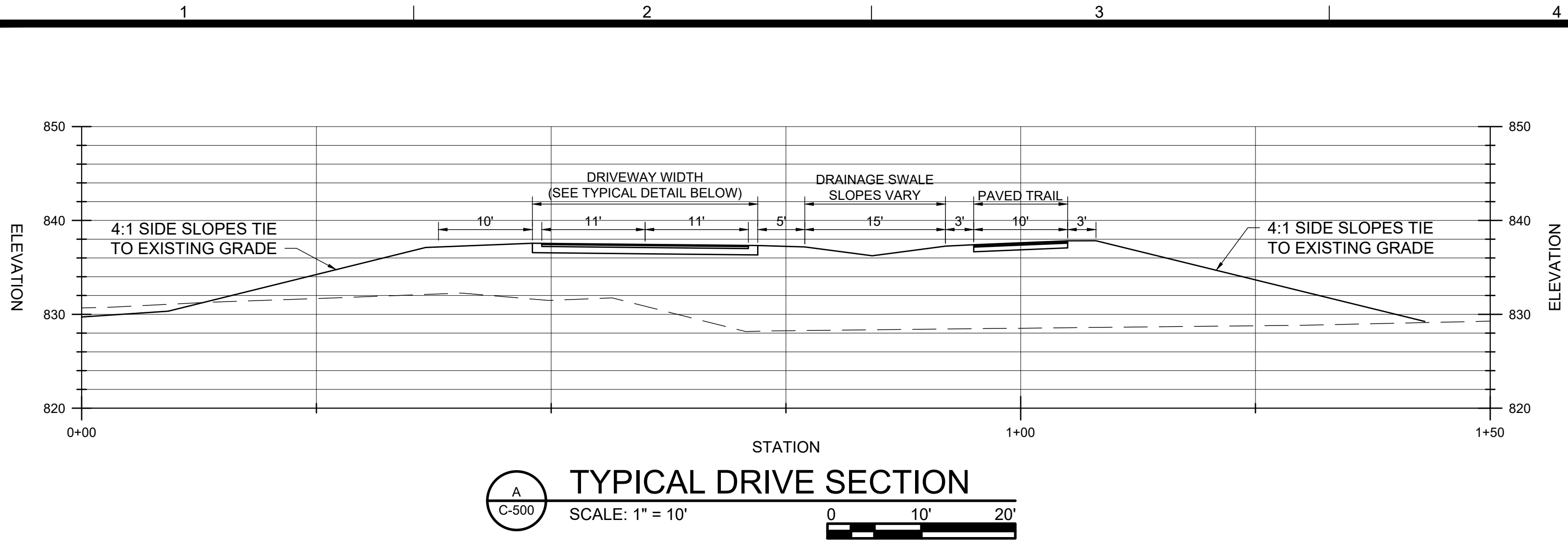
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DRAWN BY:	RVZ
CHECKED BY:	BWT
APPROVED BY:	BWT
SCALE:	NOTED

PROPOSED GRADING PLAN

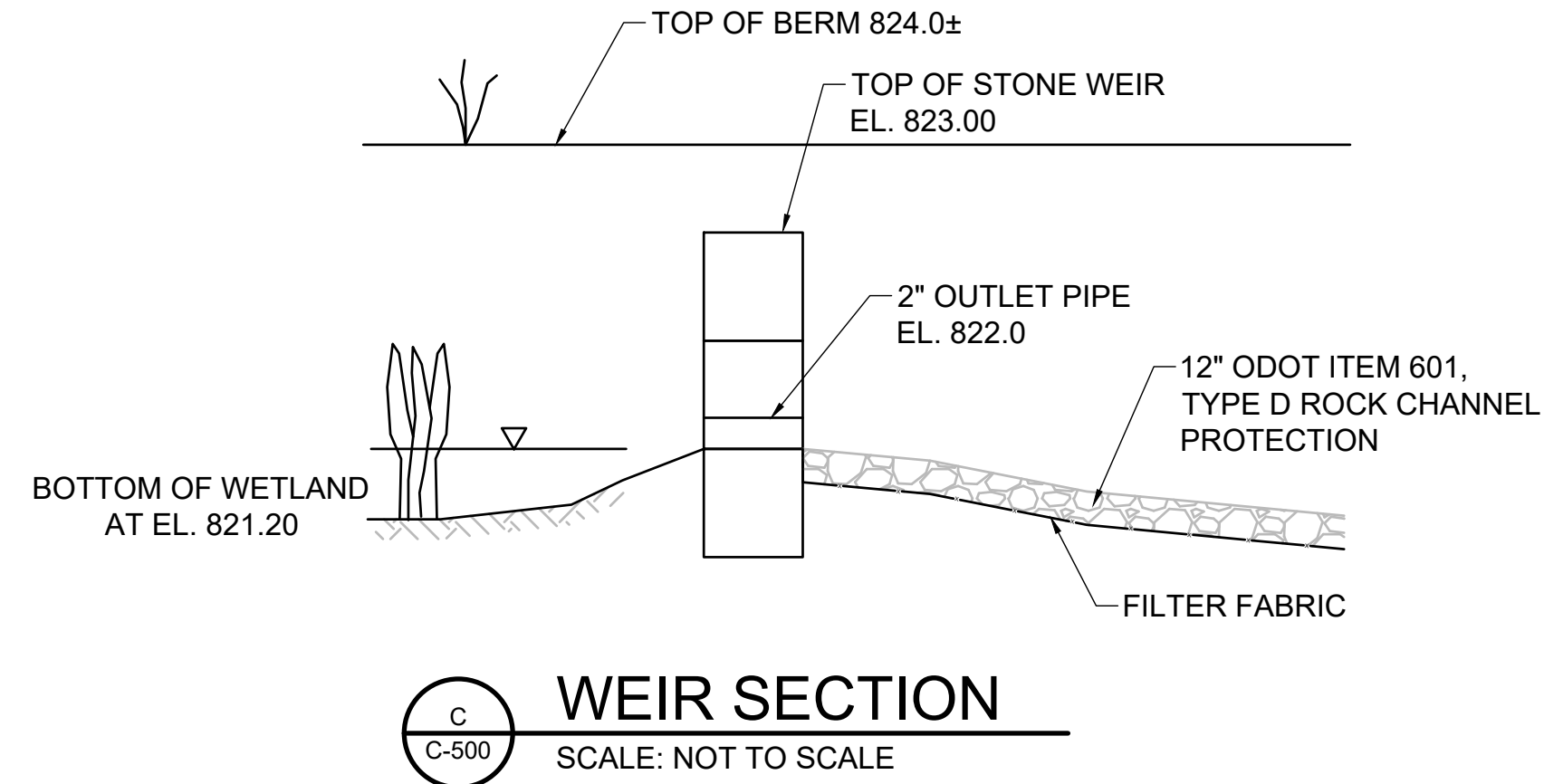
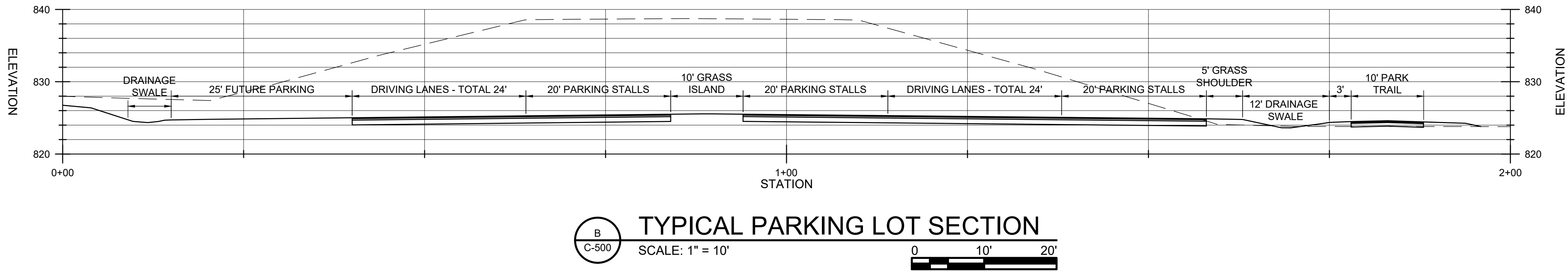
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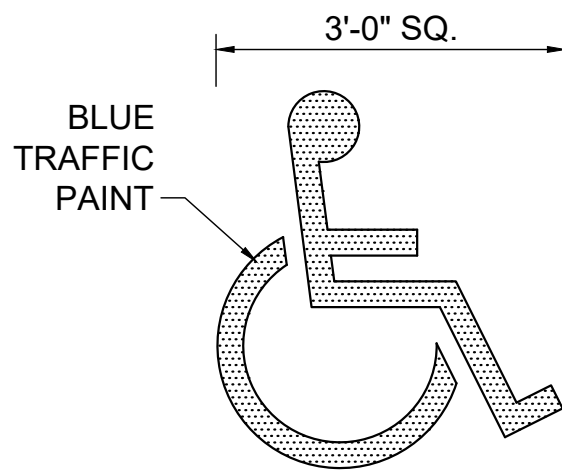
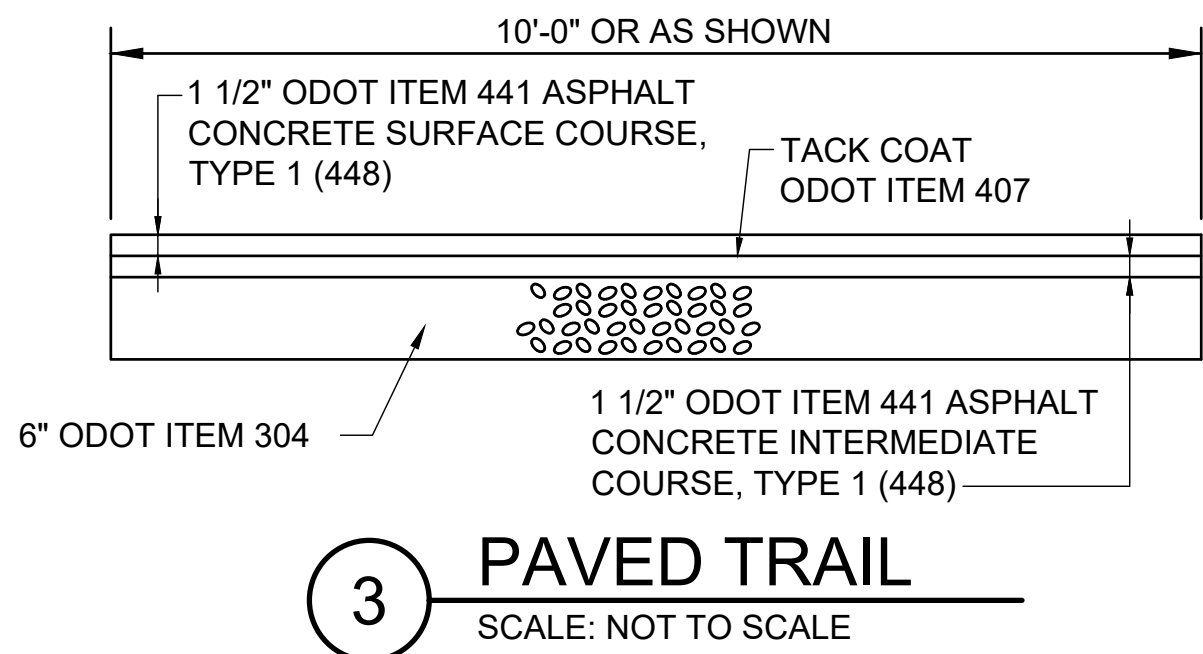
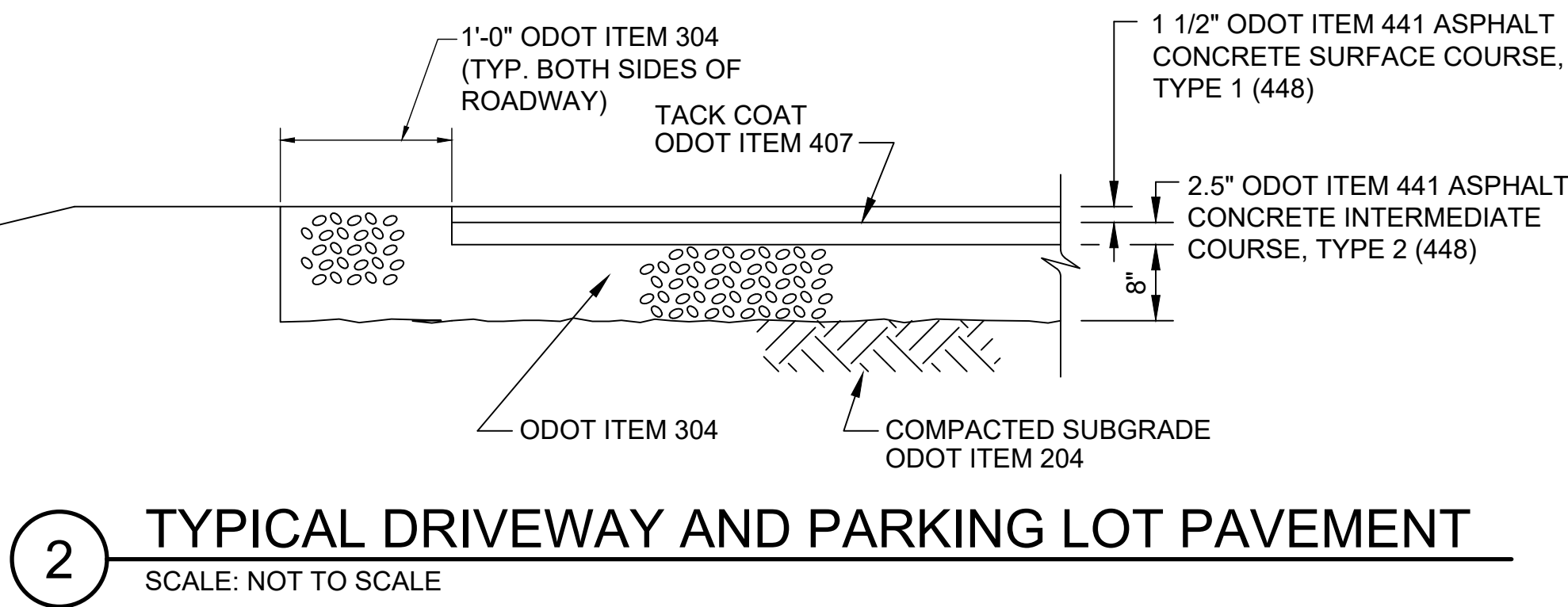
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4 ADA STALL MARKINGS
SCALE: NOT TO SCALE



330 RUSH ALLEY
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PEDESTRIAN BRIDGE PROJECT
JUNE 2025

REVISIONS	NO.	DESCRIPTION	DATE

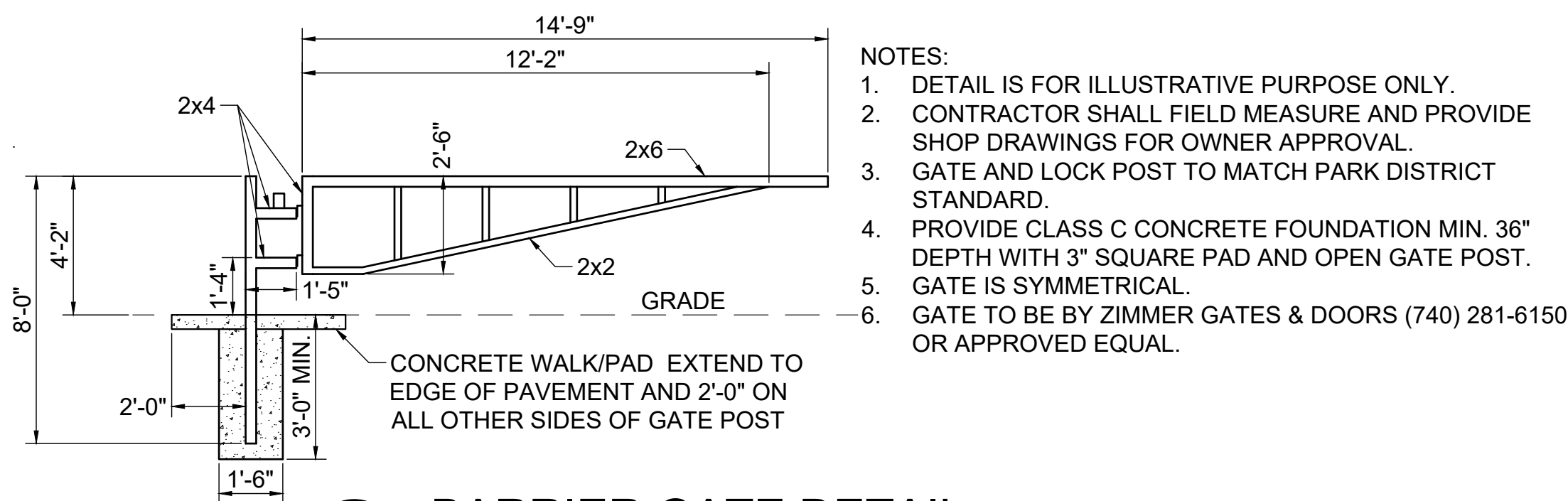
JOB NO:	PR62963
DATE:	JUNE 2025
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APPROVED BY:	BWT
SCALE:	NOTED

SITE DETAILS

SHEET IDENTIFICATION
C-500

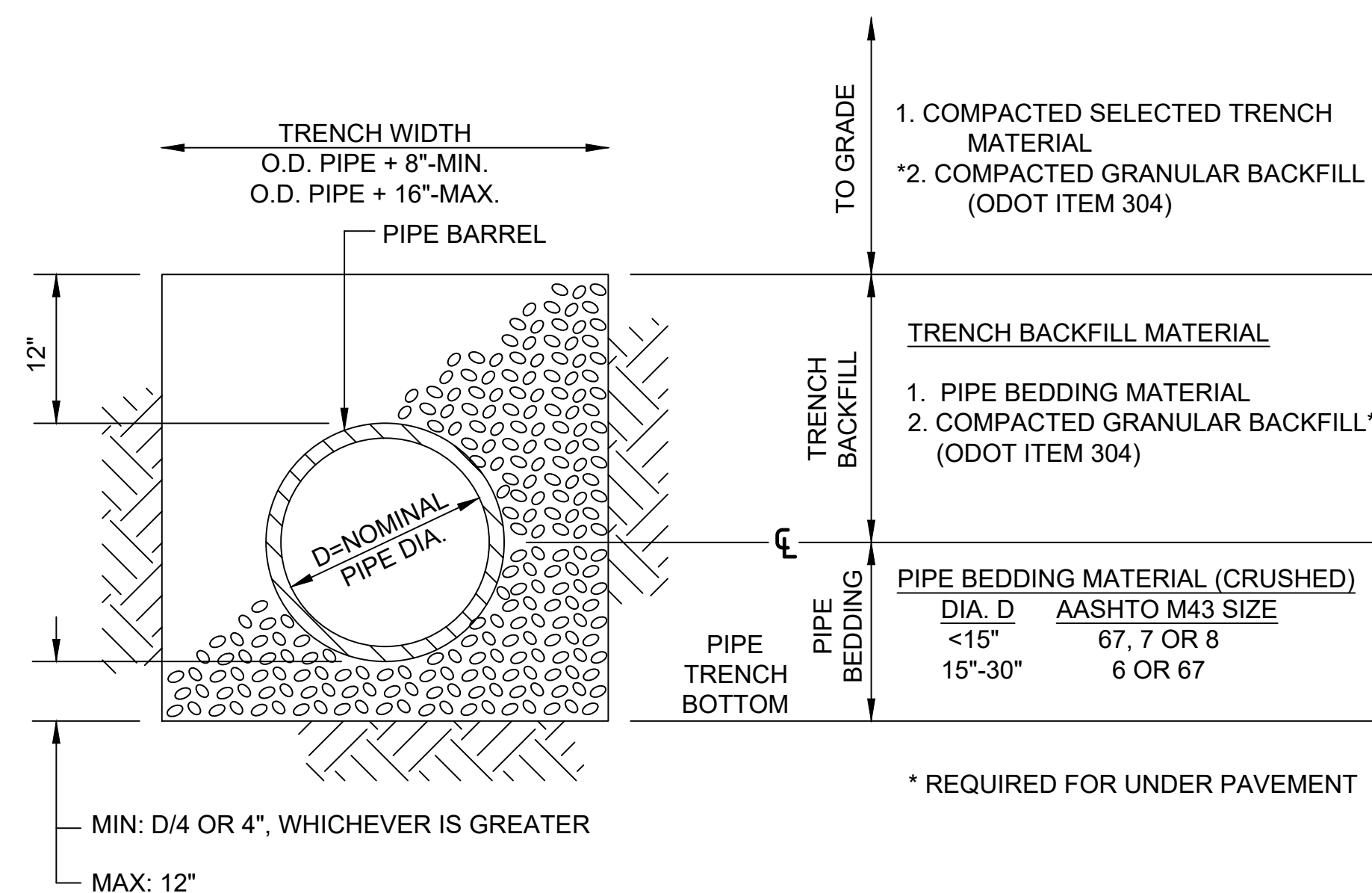
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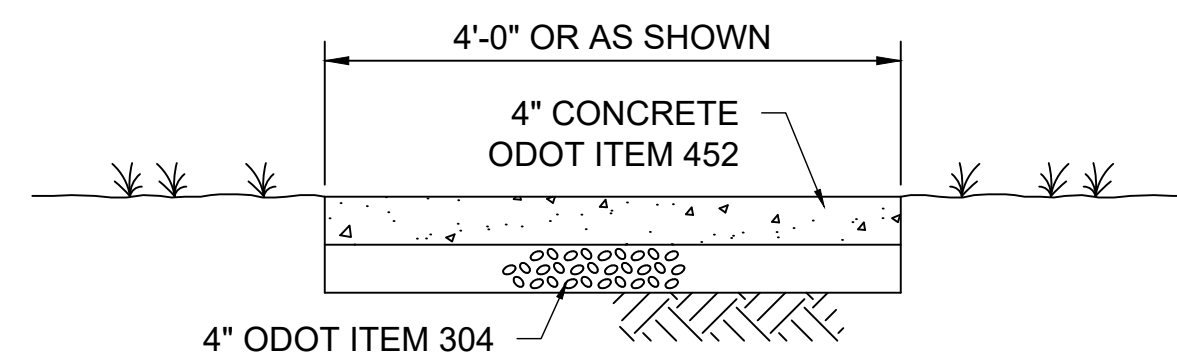


3 BARRIER GATE DETAIL

SCALE: NOT TO SCALE



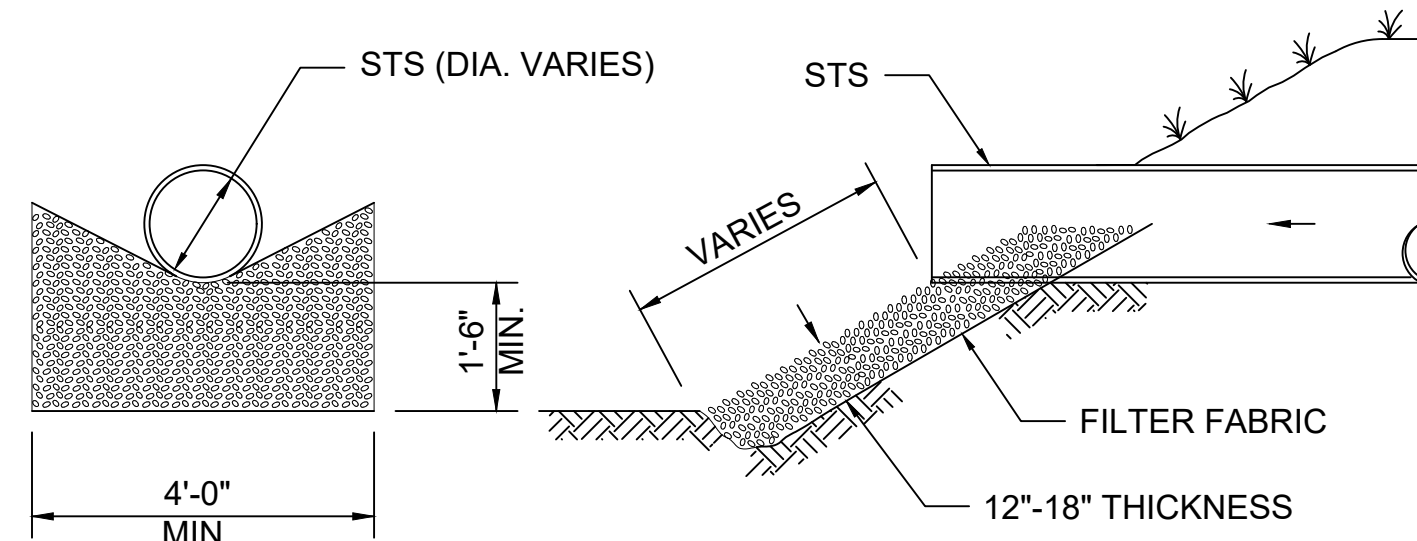
6 TYPICAL SEWER PIPE INSTALLATION



NOTE:
SCORE CONCRETE EVERY 4'-0". PROVIDE 1/2" PRE-MOLDED EXPANSION
JOINT WITH JOINT SEALER EVERY 20'-0" AND WHERE ABUTTING STEPS,
EXISTING WALKS, BUILDING, AND STRUCTURAL MEMBERS.

2 TYPICAL CONCRETE WALK DETAIL

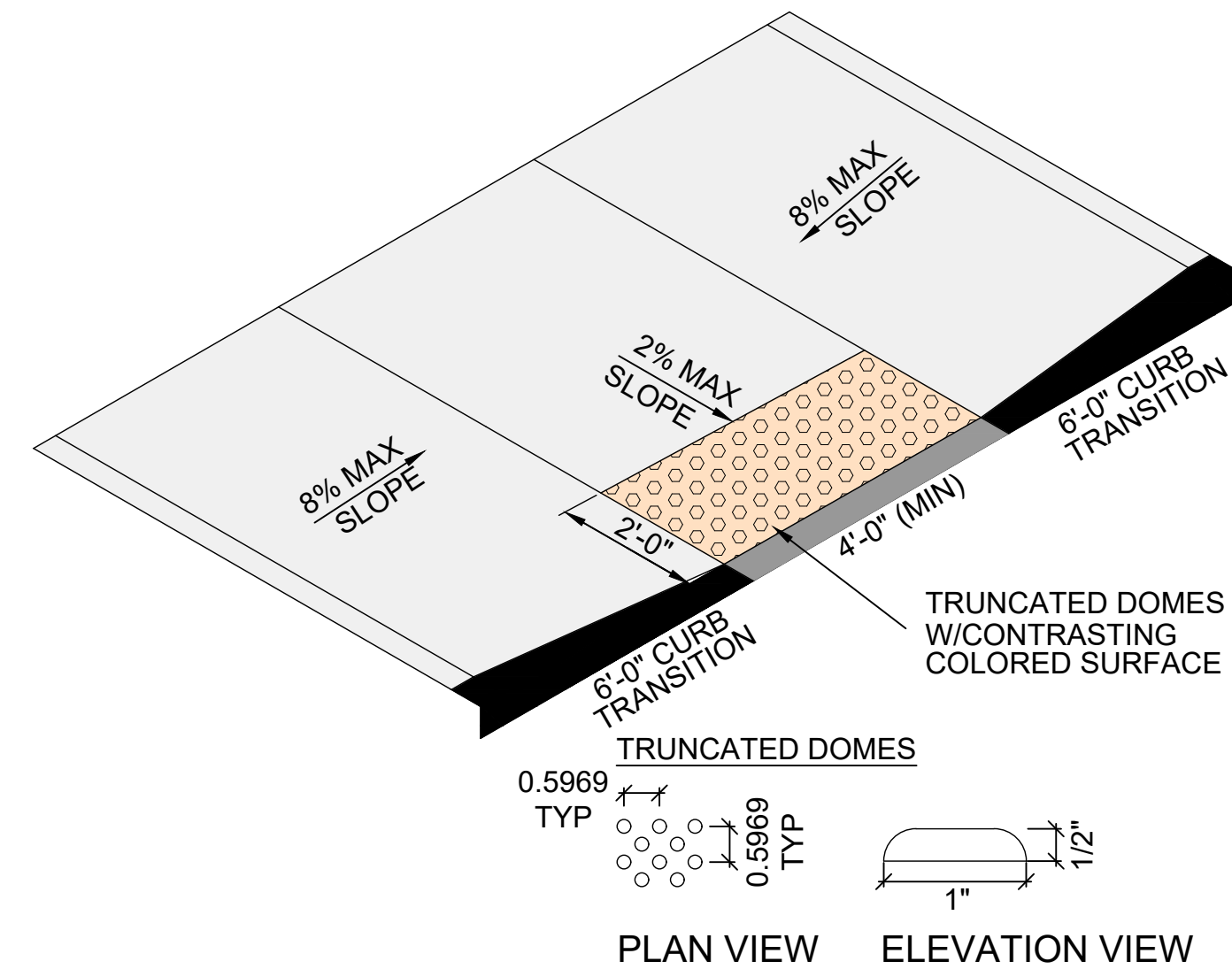
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NOTE:

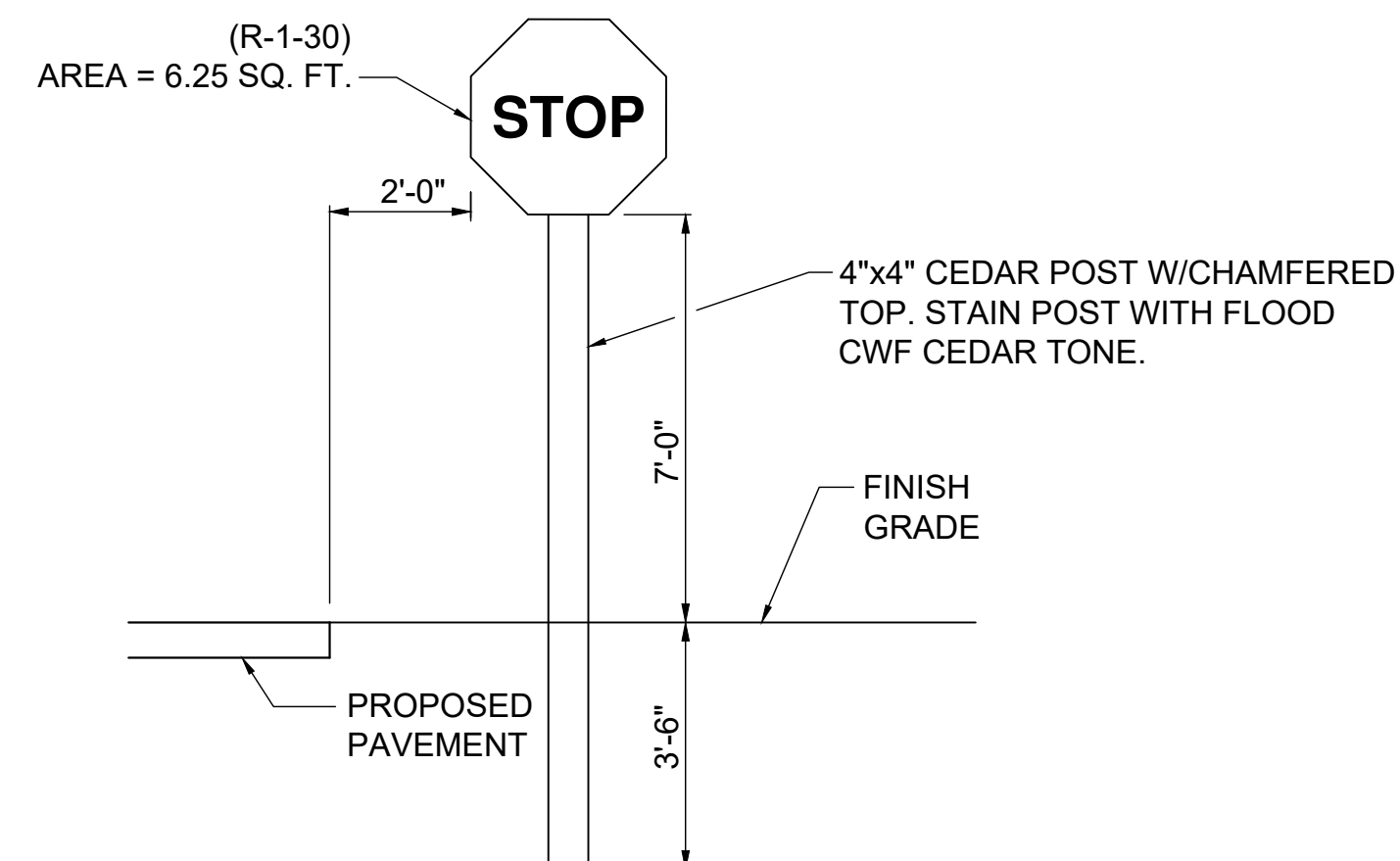
SLOPE PROTECTION SHALL CONSIST OF CRUSHED LIMESTONE WITH A FILTER FABRIC BED MEETING THE REQUIREMENTS OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) SPECIFICATION ITEM 601.09, TYPE C.

5 SLOPE PROTECTION DETAIL
SCALE: NOT TO SCALE



1 SIDEWALK ADA TRANSITION

SCALE: NOT TO SCALE



4 TYPICAL SIGN PLACEMENT

SCALE: NOT TO SCALE



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JOB NO:	PR62963
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APPROVED BY:	XXX
SCALE:	NOTED

SITE DETAILS

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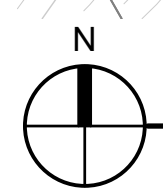
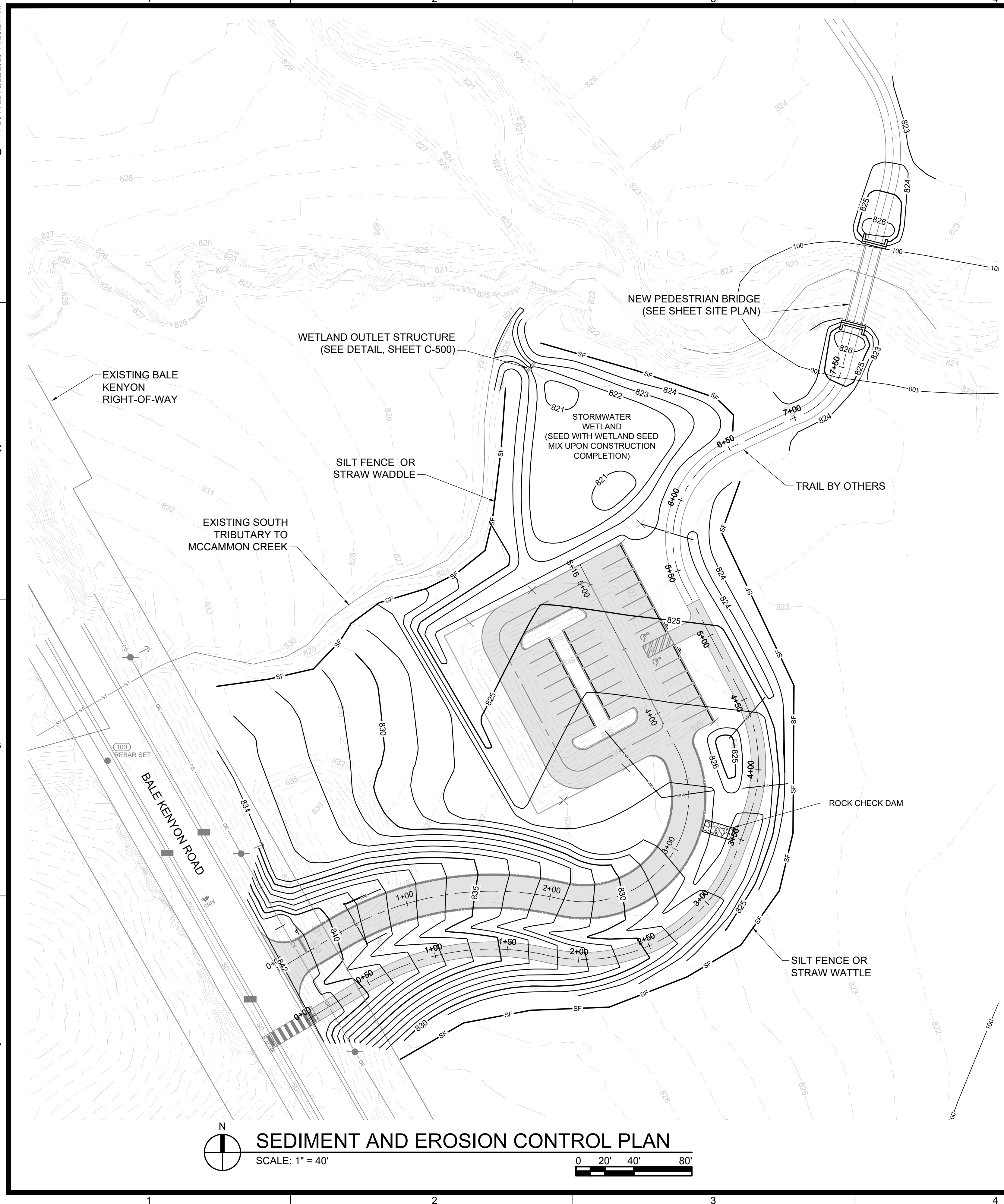
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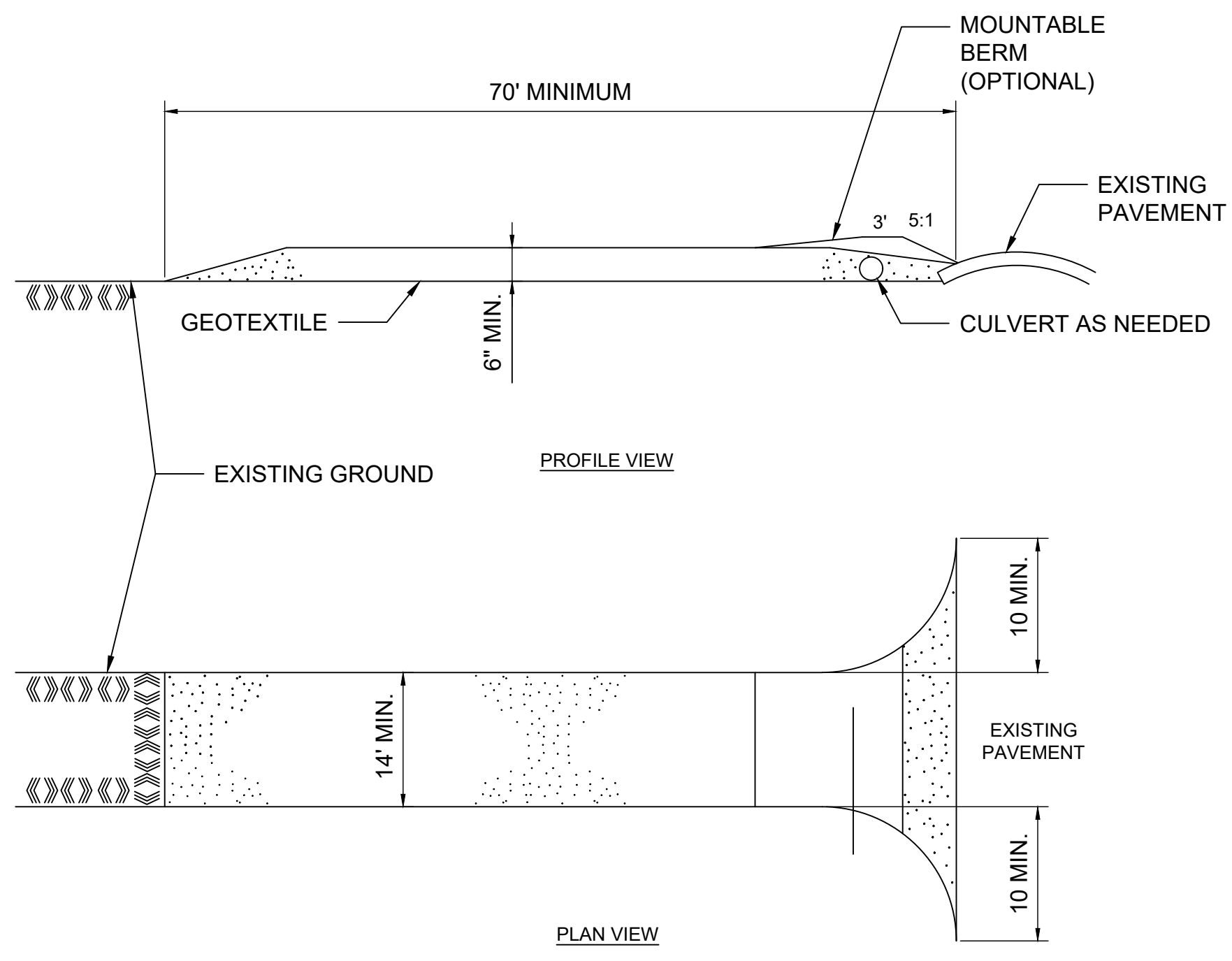
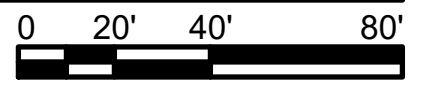
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SEDIMENT AND EROSION CONTROL PLAN
SCALE: 1" = 40'



STABILIZED CONSTRUCTION ENTRANCE
SCALE: NOT TO SCALE



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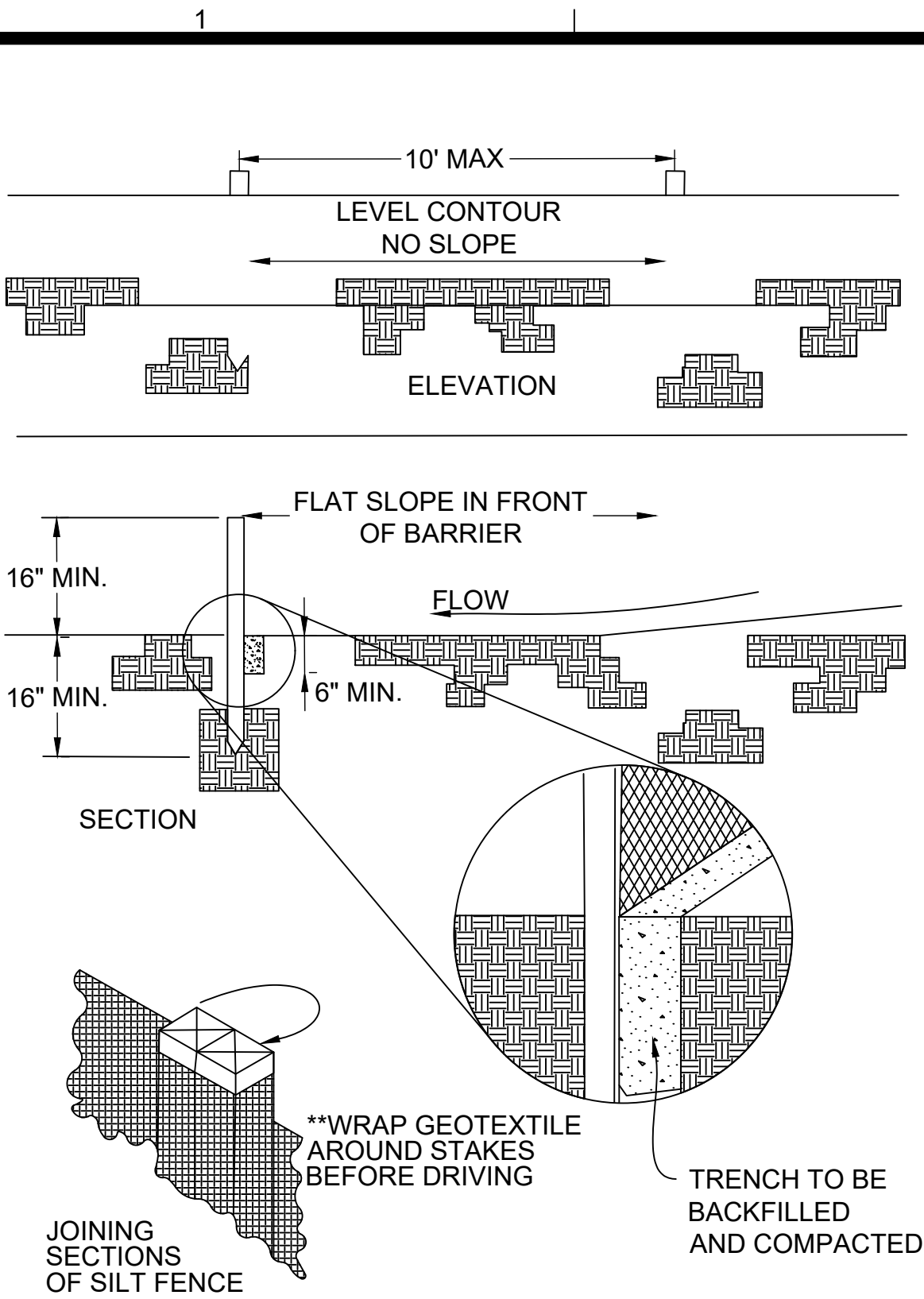
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SCALE:	NOTED

SEDIMENT AND EROSION
CONTROL PLAN

SHEET IDENTIFICATION
SW-001
SHEET: 09 OF 22

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SILT FENCE DETAIL
SCALE: NOT TO SCALE

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UP-SLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UP-SLOPE SLIGHTLY SO THE WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UP-SLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWN-SLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.

TABLE 6.3.2 MINIMUM CRITERIA FOR SILT FENCE FABRIC (000T,2002)

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS.	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS. (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	≤0.84 MM	ASTM D 4751
MINIMUM PERMITIVITY	1X10-2 SEC. -1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND, (SEE DETAILS).
10. MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

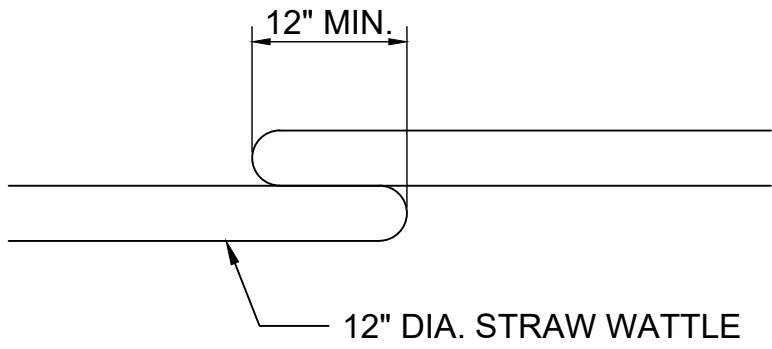
SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHAN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.

SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

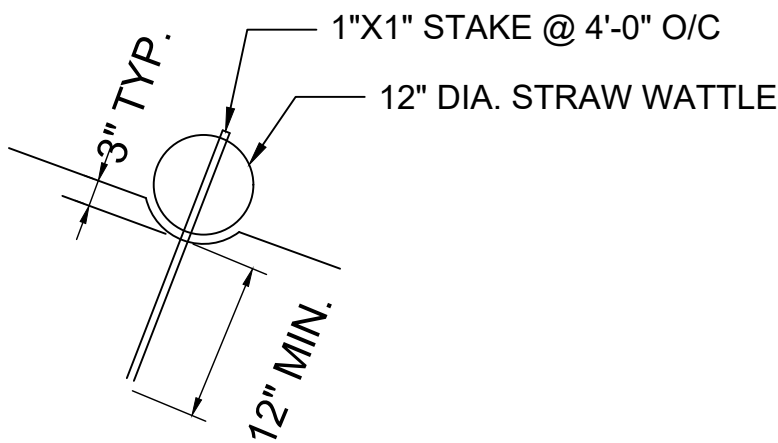
CRITERIA FOR SILT FENCE MATERIALS

1. FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2 IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 166 INCHES INTO GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.

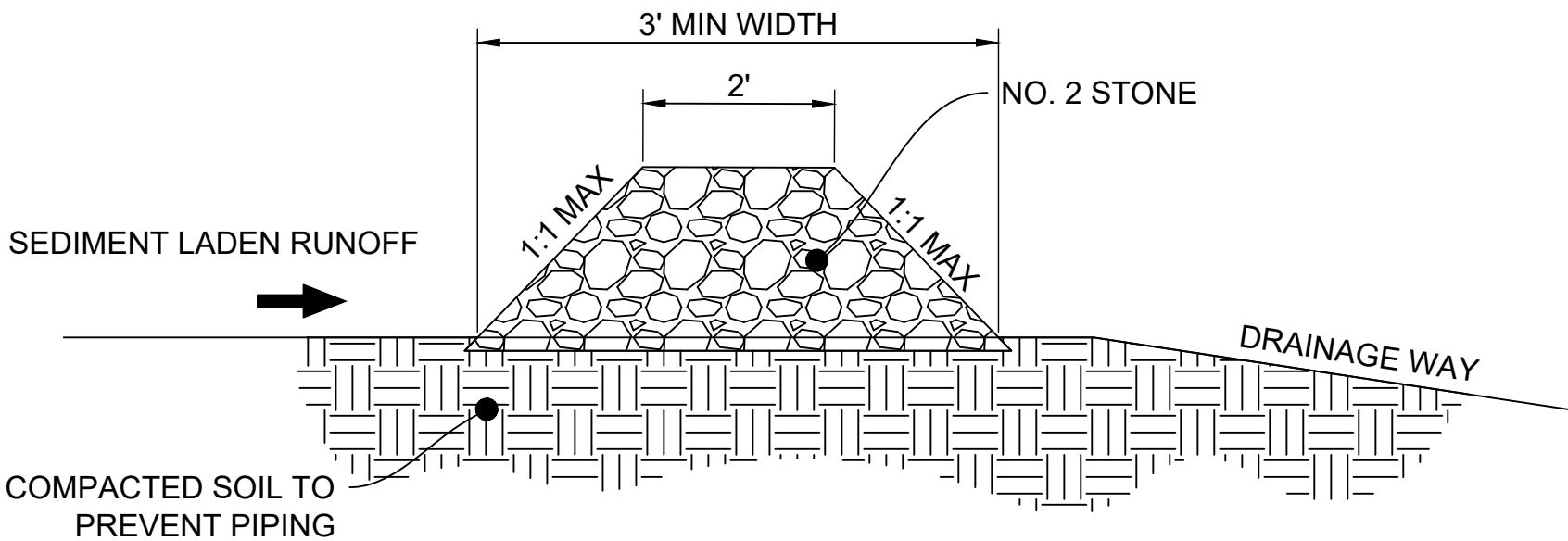
2. SILT FENCE - SEE CHART BELOW.



ADJACENT WATTLE DETAIL
SCALE: NOT TO SCALE



STRAW WATTLE DETAIL
SCALE: NOT TO SCALE



INSTALL ROCK FILTER PER ITEM 601.09
(6" BED OF AGGREGATE CONFORMING TO 703.19)

MAINTENANCE:

1. AGGREGATE CHECK DAMS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
2. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED CHECK DAMS, END RUNS AND UNDERCUTTING BENEATH DAMS.
3. NECESSARY REPAIRS TO CHECK DAMS SHALL BE ACCOMPLISHED PROMPTLY.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE AGGREGATE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDDED.

ROCK DITCH CHECK

SCALE: 1" = 2'



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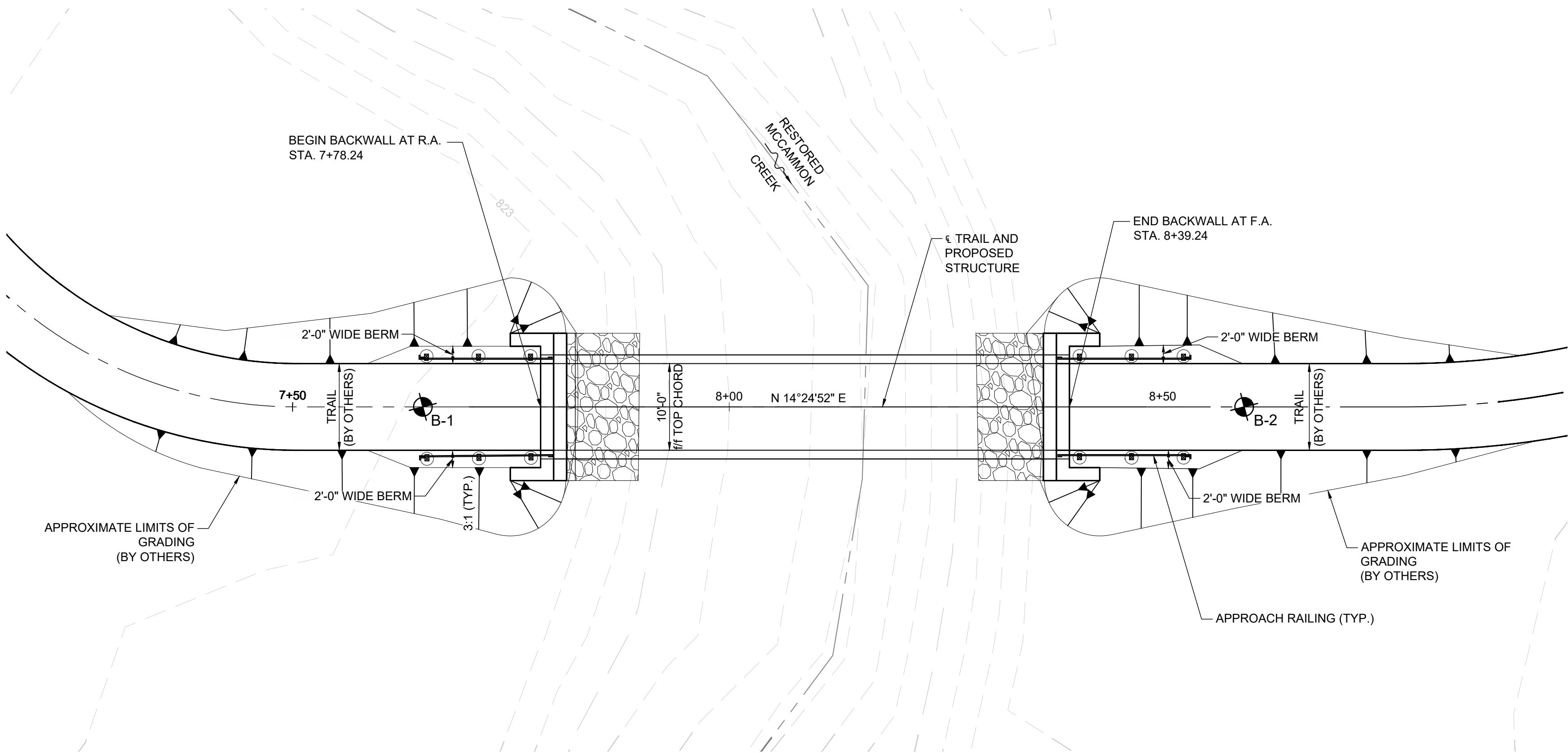
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SEDIMENT AND EROSION
CONTROL DETAILS

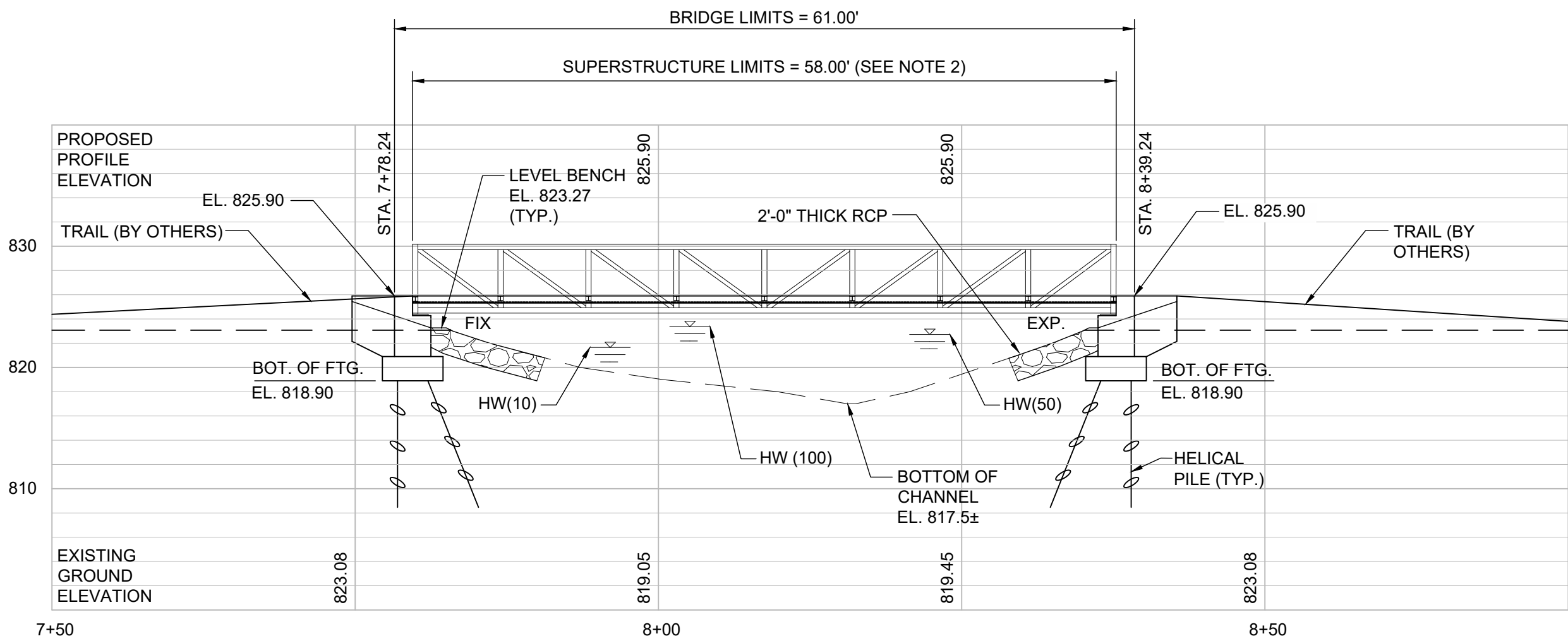
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SW-003

SHEET: 11 OF 22

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PLAN - PEDESTRIAN BRIDGE OVER MCCAMMON CREEK
SCALE: 1" = 10'



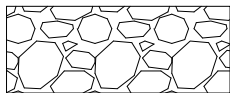
PROFILE - PEDESTRIAN BRIDGE OVER MCCAMMON CREEK
SCALE: 1" = 10'

NOTES:

1. BRIDGE LENGTH SHOWN IS FACE-TO-FACE ABUTMENT BACKWALL. TRUSS CHORD AND DIAGONAL LAYOUT SHALL BE SIMILAR TO THE LAYOUT SHOWN.

LEGEND:

PROJECT BORING LOCATION



ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (2'-0" THICK)

PROJECT BORING LOCATIONS AND TOP OF ROCK ELEVATIONS

BORING	ALIGNMENT	APPROX. STATION	APPROX. OFFSET	T.O.R. ELEVATION
B-1	CL PROP. STRUCTURE	7+64.65	0.00'	NOT FOUND
B-2	CL PROP. STRUCTURE	8+59.40	0.00'	NOT FOUND

PROPOSED STRUCTURE

TYPE: PREFABRICATED STEEL TRUSS WITH REINFORCED CONCRETE ABUTMENTS ON HELICAL PILES.
SPANS: SINGLE SPAN, 61'-0" (BACK TO BACK OF BACKWALLS), 58'-0" (OUT TO OUT OF BRIDGE)
ROADWAY: 10'-0" o/o DECK
LOADING: AASHTO PEDESTRIAN LIVE LOAD (0.09 KSF) OR H5 TRUCK
SKEW: 0°
ALIGNMENT: TANGENT
DECK: COMPOSITE OR PLASTIC LUMBER
APPROACH SLABS: NONE
CROWN: NONE
COORDINATES: LATITUDE: 40°10'03.33" N
LONGITUDE: 82°57'29.87" W

HYDRAULIC DATA:

DRAINAGE AREA = 0.72 SQUARE MILES

WATER SURFACE ELEVATIONS:

HW (10) EL. = 821.93
HW (50) EL. = 822.71
HW (100) EL. = 823.70

LIST OF ABBREVIATIONS:

BOT. = BOTTOM
C.J. = CONSTRUCTION JOINT
CLR. = CLEARANCE
CONST. = CONSTRUCTION
DIA. = DIAMETER
E.F. = EACH FACE
EL. = ELEVATION
EX. = EXISTING
EXP. = EXPANSION
F.A. = FORWARD ABUTMENT
FTG. = FOOTING
MAX. = MAXIMUM
MIN. = MINIMUM
NPCPP = NONPERFORATED CORRUGATED PLASTIC PIPE
o/o = OUT TO OUT
PCPP = PERFORATED CORRUGATED PLASTIC PIPE
PROP. = PROPOSED
RCP = ROCK CHANNEL PROTECTION
R.A. = REAR ABUTMENT
STA. = STATION
T&B = TOP AND BOTTOM
T.O.R. = TOP OF ROCK
TYP. = TYPICAL
U.N.O. = UNLESS NOTED OTHERWISE



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APPROVED BY:	
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STRUCTURE
SITE PLAN

SHEET IDENTIFICATION
S-001

SHEET: 12 OF 22

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GENERAL NOTES:

SPECIAL PROVISIONS:

REFER TO THE SPECIAL PROVISION - HELICAL PILE FOUNDATIONS MCCAMMON CREEK PARK.

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 10th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), 2024, THE AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2009 WITH CURRENT INTERIMS, THE ODOT BRIDGE DESIGN MANUAL, 2020 AND THE GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, 4th EDITION, 2012.

OPERATIONAL IMPORTANCE:

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.

DESIGN LOADING:

THE BRIDGE DESIGN SHALL BE BASED ON A COMBINATION OF THE FOLLOWING LOADS WHICH WILL PRODUCE MAXIMUM LOADS/STRESSES:

- ONE AASHTO H5 TRUCK. CONSIDERATION OF DYNAMIC LOADING IS NOT REQUIRED.
- A PEDESTRIAN LIVE LOAD OF 90 PSF NOT TO BE USED IN CONJUNCTION WITH THE H5 TRUCK LOADING.

IN ADDITION TO THE LOADS ABOVE, THE BRIDGE DESIGN SHALL INCLUDE WIND LOAD ON THE FULL HEIGHT OF THE BRIDGE, AS IF ENCLOSED (PER 3.4 OF AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES AND 3.8.1 OF ASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS) AND CONCURRENT 20 PSF VERTICAL WIND FORCE APPLIED TO THE WIDTH OF THE BRIDGE.

ABUTMENT DESIGN LOADS:

THE FOLLOWING UNFACTORED BEARING REACTIONS WERE USED FOR THE DESIGN OF THE ABUTMENTS:

- DEAD LOAD = 15,600 LBS PER BEARING (VERTICAL)
- UNIFORM LIVE LOAD = 13,500 LBS PER BEARING (VERTICAL)
- VEHICLE LOAD = 5,000 LBS PER BEARING (VERTICAL)
- THERMAL LOAD = 1,900 LBS PER BEARING (LONGITUDINAL)
- WIND = +-1,925 LBS PER BEARING (VERTICAL)
- = 6,000 LBS PER ABUTMENT (HORIZONTAL)

DESIGN DATA:

HELICAL PILES - SEE SPECIAL PROVISIONS

- CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (ABUTMENTS)
- EPOXY COATED REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI
- STRUCTURAL STEEL - OPEN SHAPES AND PLATES - ASTM A709 AND/OR ASTM A588, ASTM A242, ASTM A606 GRADE 50W (SELF WEATHERING, UNPAINTED)
- CLOSED SHAPES/TUBES - ASTM A847 GRADE 50W (SELF WEATHERING, UNPAINTED)

ITEM 507 - PILING, MISC.: HELICAL PILES:

SEE SPECIAL PROVISION FOR ADDITIONAL REQUIREMENTS

- HELICAL SCREW PILES SHALL BE MANUFACTURED BY CHANCE CIVIL CONSTRUCTION, RAM JACK, MACLEAN-DIXIE OR APPROVED EQUAL.
- PILES SHALL BE INSTALLED BY MANUFACTURER'S AUTHORIZED INSTALLATION CONTRACTOR WHO HAS SATISFIED THE CERTIFICATION REQUIREMENTS RELATING TO THE TECHNICAL ASPECTS OF THE PRODUCT AND THE INSTALLATION TECHNIQUES.
- ALL HELICAL PILES SHALL BE HOT-DIP GALVANIZED.
- INSTALLATION TORQUE SHALL BE MONITORED THROUGHOUT THE INSTALLATION PROCESS.
- HELICAL PILES SHALL BE INSTALLED TO THE MINIMUM TORQUE VALUE REQUIRED TO PROVIDE THE LOAD CAPACITIES SHOWN ON THE PLANS.
- APPROPRIATE HELICAL PILE SELECTION WILL CONSIDER LRFD FACTORED DESIGN LOADS AND FACTORED GEOTECHNICAL RESISTANCE (OR ASD DESIGN LOADS WITH FACTOR OF SAFETY = 2), SOIL PARAMETERS AND THE INSTALLATION TORQUE VS. CAPACITY EQUATION AS PER THE MANUFACTURER'S RECOMMENDATIONS. MOST MANUFACTURER'S PILE TABLES ARE BASED ON ALLOWABLE STRESS DESIGN (ASD). THE GEOTECHNICAL RESISTANCE FACTOR IS 0.4 FOR LRFD DESIGN AND CAN BE 0.7 FOR LRFD AFTER PILE TEST IS PERFORMED.
- DESIGN OF THE HELICAL SCREW PILES AND ANCHORS SHALL BE SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OHIO.

HELICAL PILE DATA SUMMARY:

- PILE TYPE: ROUND SHAFT HELICAL PILE
- SHAFT MATERIAL: RS4500 (4.5" O.D. SCHEDULE 80)
- HELICAL CONFIGURATION: 10"/12"/14" HELICES
- MINIMUM PILE LENGTH: 20'-0" (VERTICAL PILES)
- 22'-0" (BATTERED PILES)
- MINIMUM CAPACITY: 100.0 KIPS NOMINAL RESISTANCE IN LRFD
- FACTORED BEARING RESISTANCE: 04.xNOMINAL RESISTANCE = 40.0 KIPS IN LRFD

HELICAL PILE LOADS:

- THE TOTAL LRFD FACTORED AXIAL LOAD IS 28.4 KIPS PER PILE
- THE TOTAL ASD AXIAL LOAD IS 20.5 KIPS PER PILE

THE TOTAL LRFD FACTORED OR ASD LATERAL LOAD IS 9.7 KIPS REGISTERED BY 1 BATTERED PILE.

THE LRFD DESIGN TORQUE REQUIRED IS 12.7 K-FT FOR PILE DETAILS IN THIS SET OF PLANS. APPROVED EQUAL DESIGN MAY YIELD DIFFERENT DESIGN TORQUE.

PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR ITEM 507 - PILING MISC., HELICAL PILES, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN CONFORMANCE WITH THESE REQUIREMENTS.

ITEM 507 - PILING, MISC.: HELICAL PILE PRE-PRODUCTION LOAD TEST:

SEE SPECIAL PROVISION FOR ADDITIONAL REQUIREMENTS.

PERFORM PRE-PRODUCTION LOAD TEST TO CONFIRM HELICAL PILE DESIGN AND INSTALLATION PARAMETERS PER THE SPECIFICATIONS.

PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR ITEM 507 - PILING MISC.: HELICAL PILE PRE-PRODUCTION LOAD TEST, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN CONFORMANCE WITH THESE REQUIREMENTS.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

TINT SO THAT THE FINAL COLOR IS FEDERAL COLOR STANDARD NO. 17778 - LIGHT NEUTRAL.

ITEM 530 - SPECIAL - STRUCTURES: ENGINEERED DECKING:

THE DECK SHALL BE CONSTRUCTED USING COMPOSITE DECKING, PVC DECKING, OR PLASTIC LUMBER. TIMBER DECKING WILL NOT BE ACCEPTED.

ONE SIZE OF BOARD SHALL BE USED FOR THE ENTIRE DECK LENGTH. THE DECK BOARDS SHALL SPAN THE BRIDGE TRANSVERSELY. ONE BOARD SHALL TRANSVERSE THE ENTIRE WIDTH OF THE DECK. ABUTTED PARTIAL BOARD LENGTHS OR SPLICED BOARDS WILL NOT BE ACCEPTED.

CONTRACTOR SHALL ENSURE THAT THE DECK BOARDS CAN RESIST THE UNIFORM LIVE LOAD AND VEHICLE LIVE LOAD LISTED IN THESE GENERAL NOTES. IF NECESSARY, THE CONTRACTOR MAY USE MORE LONGITUDINAL MEMBERS, AT A UNIFORM SPACING, TO SUPPORT THE DECK. SEE SECTION 2.0 OF THE ITEM 530 - SPECIAL - STRUCTURES: PREFABRICATED TRUSS.

DECKING COLOR SHALL BE LIGHT GRAY. FINAL DECKING COLOR SHALL BE APPROVED BY THE ENGINEER PRIOR TO ORDERING ANY MATERIALS.

CONTRACTOR SHALL INSTALL THE DECKING USING WEATHER-RESISTANT FASTENERS. FASTENER SYSTEMS SUPPLIED BY THE DECKING SUPPLIER ARE ACCEPTABLE.

ALL LABOR, EQUIPMENT, AND MATERIALS NEEDED TO FURNISH AND INSTALL THE ENGINEERED DECKING SHALL BE INCLUDED WITH ITEM 530 - SPECIAL - STRUCTURES: ENGINEERED DECKING.

GENERAL:

UNLESS NOTED OTHERWISE, PERFORM WORK IN ACCORDANCE WITH OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS), DATED JANUARY 2023. REFERENCES TO THE "DEPARTMENT" OR "DEPARTMENT PERSONNEL" IN THE SPECIFICATIONS SHALL BE REPLACED WITH THE PRESERVATION PARKS OF DELAWARE COUNTY OR THEIR DESIGNATED REPRESENTATIVE. REFERENCES TO THE "ENGINEER" IN THESE NOTES REFER TO THE DESIGNATED REPRESENTATIVE OF THE PRESERVATION PARKS OF DELAWARE COUNTY.

ITEM 530 - SPECIAL - STRUCTURES: PREFABRICATED TRUSS

1.0 GENERAL

DESIGN, FABRICATE, SUPPLY, AND ERECT A STEEL PONY TRUSS PEDESTRIAN BRIDGE SUPERSTRUCTURE AS NOTED HEREIN AND SHOWN ON THE PLANS. ANY NOTES OR SPECIFICATIONS LISTED HEREIN AND SHOWN ON THE PLANS SHALL BE REGARDED AS MINIMUM STANDARDS FOR DESIGN AND CONSTRUCTION.

2.0 DESIGN

STRUCTURAL DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OHIO AND DONE WITH RECOGNIZED ENGINEERING PRACTICES AND PRINCIPLES. DESIGN LOADS SHALL BE AS STIPULATED IN THE NOTE TITLED "DESIGN LOADING". SUPERSTRUCTURE DESIGN, INCLUDING THE DESIGN OF ALL CONNECTIONS, SHALL CONFORM TO THE AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES WITH CURRENT INTERIMS.

THE BRIDGE MANUFACTURER SHALL DESIGN THE PONY TRUSS TO CONFORM TO THE DIMENSIONS SPECIFIED IN THESE NOTES AND SHOWN ON SHEET S-001. THE LAYOUT OF TRUSS CHORDS, VERTICALS AND DIAGONALS SHALL BE SIMILAR TO THE LAYOUT SHOWN ON SHEET S-001. NO ALTERNATE TRUSS CONFIGURATIONS WILL BE ACCEPTED. THE BRIDGE MANUFACTURER SHALL DETERMINE THE SHAPES OF THE TRUSS MEMBERS (OPEN SHAPES AND PLATES OR TUBES) AND DESIGN CONNECTIONS BETWEEN TRUSS MEMBERS (BOLTED OR WELDED, WITH OR WITHOUT GUSSET PLATES). MAIN LOAD CARRYING TENSION MEMBERS SHALL MEET THE CHARPY-V NOTCH TOUGHNESS REQUIREMENTS PER ASTM A673.

THE BRIDGE MANUFACTURER SHALL DESIGN BEARINGS AND JOINTS TO WITHSTAND THE LOADS AND TO ALLOW THE NECESSARY EXPANSION AND CONTRACTION. BEARINGS SHALL BE FIXED AT REAR ABUTMENT AND SHALL BE DESIGNED TO ALLOW MOVEMENT UNDER THERMAL EXPANSION OR CONTRACTION AT THE FORWARD ABUTMENT. BEARINGS AND JOINTS SHALL MEET THE REQUIREMENTS OF C&MS 516. THE TOP SURFACE OF THE EXPANSION JOINT SHALL BE NON-SLIP AND COMPLY WITH ADA GUIDELINES WHEN INSTALLED.

THE BRIDGE MANUFACTURER SHALL DESIGN THE BRIDGE SPAN WITH A VERTICAL CAMBER AT MIDSPAN EQUAL TO 100% OF THE FULL DEAD LOAD DEFLECTION, INCLUDING THE WEIGHT OF THE DECK. DEFLECTIONS SHALL BE INVESTIGATED AT THE SERVICE LIMIT STATE IN ACCORDANCE WITH AASHTO LRFD. THE DEFLECTION OF THE BRIDGE DUE TO THE UNFACTORED PEDESTRIAN LIVE LOAD SHALL NOT EXCEED 1/360 OF THE SPAN LENGTH.

THE BRIDGE MANUFACTURER SHALL DETERMINE THE LOCATION, QUANTITY, DIAMETER, GRADE, FINISH (CORROSION RESISTANT HOT DIP GALVANIZED STEEL OR STAINLESS STEEL) AND EMBEDMENT OF BEARING ANCHOR BOLTS DESIGNED TO RESIST ALL HORIZONTAL AND UPLIFT FORCES TO BE TRANSFERRED FROM THE SUPERSTRUCTURE TO THE SUBSTRUCTURE. SUBSTRUCTURE DESIGN AND BEAM SEAT ELEVATIONS SHOWN ON THE PLANS ARE BASED ON ASSUMED VERTICAL DIMENSIONS FROM THE FINISHED DECK TO THE CONCRETE BEARING SEATS. THE BRIDGE MANUFACTURER SHALL USE STEEL PLATES AS NEEDED TO ACCOUNT FOR DIFFERENCES BETWEEN THE REQUIRED SEAT ELEVATION AND THE ACTUAL SEAT ELEVATION.

PROVIDE LONGITUDINAL MEMBERS BELOW THE DECK TO SUPPORT THE DECK PLANKS. SPACE MEMBERS AT NO MORE THAN 2'-0" CENTER TO CENTER. DECK BOARDS WILL ATTACH DIRECTLY TO THE LONGITUDINAL MEMBERS.

THE BRIDGE MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE RAILING AS SPECIFIED IN THESE NOTES AND SHOWN ON THE PLANS (SHEET S-006). THE BRIDGE MANUFACTURER SHALL DESIGN THE TAB SYSTEM FOR CONNECTING THE U-EDGING TO THE TRUSS MEMBERS AND DECKING AS SPECIFIED ON THE RAILING DETAILS SHEET. THE BRIDGE MANUFACTURER SHALL ENSURE THAT ANY OPENINGS BETWEEN HORIZONTAL OR VERTICAL MEMBERS ON RAILINGS SHOULD BE LESS THAN 6" MEASURED FROM THE TOP OF THE DECK). THE MESH PANELS SHALL BE PROVIDED BY THE BRIDGE MANUFACTURER.

THE BRIDGE MANUFACTURER SHALL PROVIDE WRITTEN INSPECTION AND MAINTENANCE PROCEDURES TO BE FOLLOWED TO THE BRIDGE OWNER.

3.0 DIMENSIONS

- THE BRIDGE SHALL HAVE THE FOLLOWING GEOMETRY:
- OUT TO OUT OF DECK: 10'-0"
- OUT TO OUT OF BRIDGE: 58'-0" (EQUAL WIDTH PANELS)
- SUPERSTRUCTURE DEPTH (BEAM SEAT DEPTH): 1'-7½" (TOP OF DECK TO BEARING SEAT)
- HEIGHT: TOP OF TRUSS TOP CHORD SHALL BE 48" ABOVE THE DECK

4.0 MATERIALS

PROVIDE STRUCTURAL STEEL AS STIPULATED IN THE NOTE TITLED "DESIGN DATA". IF APPLICABLE, MAKE FIELD SPLICES AND CONNECTIONS USING HIGH STRENGTH FASTENERS, HEAVY HEX NUTS AND WASHERS SUITABLE FOR WEATHERING STEEL APPLICATIONS AND SATISFYING ASTM A325.

RAILING WIRE MESH PANELS SHALL BE 2" x 2" SQUARE WIRE MESH, OPENING SIZE 1.8130" x 1.8130", WELDED, 0.187" THICK (6 ½" GAUGE) WIRE DIAMETER, WITH GALVANIZED FINISH. U-EDGING SHALL BE CARBON STEEL, HOT ROLLED, 11 GAUGE (0.1196" THICK), TYPE 438 (3/8" OPENING x 1" WIDTH), WITH GALVANIZED FINISH. A SINGLE, ONE PIECE MESH PANEL SHALL INFILL THE ENTIRE AREA WITHIN U-EDGING IN EACH TRUSS BAY.

5.0 FABRICATION

THE FABRICATOR SHALL MEET LEVEL 6 QUALIFICATIONS PER C&MS 513.03.

IF APPLICABLE, WELDS FOR MAIN STRUCTURAL MEMBERS SHALL BE MADE USING E70 OR E80 WELDING ELECTRODES WITH SIMILAR WEATHERING CHARACTERISTICS AS THE BASE MATERIAL. FILLER METAL SHALL BE IN ACCORDANCE WITH THE APPLICABLE AWS FILLER METAL SPECIFICATION. WELDING SHALL CONFORM TO THE APPROPRIATE ANSI/AWS PROVISIONS.

WELDERS SHALL BE PROPERLY ACCREDITED EXPERIENCED OPERATORS, EACH OF WHOM SHALL SUBMIT CERTIFICATION OF SATISFACTORILY PASSING AWS STANDARD QUALIFICATION TESTS FOR ALL POSITIONS WITH UNLIMITED BASE METAL THICKNESS AND HAVE AT LEAST 6 MONTHS EXPERIENCE AND HAVE DEMONSTRATED THE ABILITY TO MAKE UNIFORM GOOD WELDS MEETING THE SIZE AND TYPE OF WELD REQUIRED. WELDING AND WELD PROCEDURE QUALIFICATION TESTS SHALL CONFORM TO AWS PROVISIONS.

ALL WELDS, INCLUDING TAB SYSTEM WELDS, AND BOLTED CONNECTIONS SHALL BE PERFORMED IN THE SHOP WHENEVER POSSIBLE. THE NUMBER OF UNASSEMBLED BRIDGE PIECES AND COMPONENTS TO BE DELIVERED TO THE SITE SHALL BE MINIMIZED.

THE BRIDGE SHALL BE INSPECTED BY A CERTIFIED WELD INSPECTOR (CWI) THAT IS QUALIFIED UNDER THE AWS QC-1 PROGRAM. THIS INSPECTION SHALL INCLUDE AS A MINIMUM REQUIREMENT THE FOLLOWING ITEMS, IF APPLICABLE: REVIEW OF SHOP DRAWINGS, WELD PROCEDURES, WELDER QUALIFICATIONS AND WELD TEST REPORTS, VISUAL INSPECTION OF WELDS AND VERIFICATION OF OVERALL DIMENSIONS AND GEOMETRY OF BRIDGE. A REPORT SHALL BE PRODUCED INDICATING THE ABOVE ITEMS WERE REVIEWED. THE REPORT SHALL BE SIGNED BY THE CWI, SIGNIFYING COMPLIANCE WITH THE APPLICABLE AWS CODES.

THE FABRICATOR SHALL PROVIDE WEEP HOLES IN ANY TRUSS STRUCTURAL MEMBER WHICH COULD HOLD WATER EITHER DURING CONSTRUCTION OR DURING SERVICE. WEEP HOLES SHALL PROVIDE POSITIVE DRAINAGE AND SHALL BE LOCATED AT THE LOWEST POINT OF THE MEMBER.

6.0 SUBMITTALS

THE BRIDGE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL DESIGN CALCULATIONS FOR THE STEEL STRUCTURE, BEARINGS, AND JOINTS ACCORDING TO C&MS 501.04, 501.05 AND 513.06. THE BRIDGE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS TO THE ENGINEER AND TO THE CONTRACTOR FOR ACCEPTANCE PRIOR TO BEGINNING FABRICATION.

SHOP DRAWINGS SHALL BE UNIQUE DRAWINGS PREPARED TO ILLUSTRATE THE SPECIFIC PORTION OF THE WORK TO BE DONE. ALL RELATIVE DESIGN INFORMATION INCLUDING BUT NOT LIMITED TO GOVERNING CODES, DESIGN PARAMETERS, MEMBER SIZES, MATERIAL PROPERTIES, BRIDGE REACTIONS, SHOP AND FIELD CONNECTION DETAILS, DECK DETAILS, RAILING DETAILS AND ANY DIMENSIONS RELATED TO SUBSTRUCTURES AND GENERAL NOTES SHALL BE CLEARLY SPECIFIED ON THE DRAWINGS. SHOP DRAWINGS SHALL BE ACCURATELY PREPARED BY SKILLED DRAFTERS AND SHALL BE COMPLETE IN EVERY RESPECT. DRAWINGS SHALL HAVE CROSS-REFERENCED DETAILS AND SHEET NUMBERS.

AS PART OF THE PREFABRICATED BRIDGE SHOP DRAWINGS SUBMITTAL, SUBMIT STRUCTURAL DESIGN CALCULATIONS. STRUCTURAL CALCULATIONS FOR THE BRIDGE SUPERSTRUCTURE SHALL INCLUDE ALL DESIGN INFORMATION NECESSARY TO DETERMINE THE STRUCTURAL ADEQUACY OF THE BRIDGE. CALCULATIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OHIO.

THE OWNER MUST PROVIDE A WRITTEN ACCEPTANCE LETTER OF SHOP DRAWINGS TO CONFIRM TYPE, STYLE AND GENERAL APPEARANCE OF PREFABRICATED STRUCTURE IN ACCORDANCE WITH CONTRACT DOCUMENTS.

WRITTEN ACCEPTANCE FROM ENGINEER, OWNER AND CONTRACTOR MUST BE PROVIDED PRIOR TO INITIATING FABRICATION.

MILL TEST REPORTS:

CONTRACTOR SHALL PROVIDE WRITTEN ACCEPTANCE OF MILL TEST REPORTS FROM SUPPLIER SHOWING COMPLIANCE WITH C&MS 711.01.

7.0 DELIVERY AND ERECTION

THE BRIDGE MANUFACTURER SHALL BE RESPONSIBLE FOR SUPPLYING THE PREFABRICATED STEEL TRUSS, BEARING DEVICES, JOINTS AND RAILING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL OTHER MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK AS SHOWN ON THESE PLANS AND AS DIRECTED BY THE BRIDGE MANUFACTURER.

THE CONTRACTOR SHALL COORDINATE WITH THE BRIDGE MANUFACTURER AND THE OWNER REGARDING THE DELIVERY AND ERECTION SCHEDULE. HAULING PERMITS AND FREIGHT CHARGES SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. DELIVERY TO THE JOB SITE SHALL BE BY TRUCKS BY MEANS OF GOOD HAUL ROADS UNLESS SPECIFIED OTHERWISE. THE BRIDGE MANUFACTURER SHALL PROVIDE DETAILED, WRITTEN INSTRUCTION PROCEDURES FOR PROPER LIFTING AND SPLICING/BOLTING/ATTACHMENT OF BRIDGE COMPONENTS. THE CONTRACTOR SHALL PROVIDE A DETAILED WRITTEN ERECTION PLAN TO THE ENGINEER. THE CONTRACTOR SHALL VERIFY THAT THE PREFABRICATED BRIDGE CAN ACCOMMODATE SUBSTRUCTURE DIMENSIONS, WIDTHS AND ELEVATIONS AS SHOWN ON THESE PLANS. IF ANY ADJUSTMENTS ARE REQUIRED, THEY SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND CONSTRUCTING THE DECK AFTER THE PREFABRICATED TRUSS HAS BEEN SECURED TO THE ABUTMENTS. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE PREFABRICATED BRIDGE MANUFACTURER AND THESE PLANS.

THE CONTRACTOR SHALL COORDINATE WITH THE BRIDGE FABRICATOR TO OBTAIN ADEQUATE EQUIPMENT TO ERECT, LIFT AND INSTALL THE PREFABRICATED BRIDGE. THIS INCLUDES SPREADER BEAMS IF REQUIRED TO ENSURE THAT NO PORTION OF THE OF THE BRIDGE IS OVERSTRESSED DURING INSTALLATION OF THE STRUCTURE.

8.0 PAYMENT

PAYMENT FOR THE PREFABRICATED STEEL TRUSS SHALL BE MADE AT A LUMP SUM BID PRICE AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS: PREFABRICATED STEEL TRUSS, BEARING DEVICES AND JOINTS, AND RAILING. PAYMENT SHALL INCLUDE ALL MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS DESCRIBED IN THESE NOTES AND SHOWN ON THE PLANS.

THE OWNER SHALL NOT BE RESPONSIBLE FOR ADDED EXPENSE DUE TO UNAVOIDABLE DELAYS SUCH AS INCLEMENT WEATHER, DELAYS IN PERMITS, RE-ROUTING BY PUBLIC AGENCIES, ETC.

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C WITH FILTER FABRIC, AS PER PLAN

ROCK CHANNEL PROTECTION BROKEN STONE SHALL BE SANDSTONE.



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PRESERVATION PARKS OF
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MCCAMMON CREEK PARK
EAST AREA PARKING LOT AND
PEDESTRIAN BRIDGE PROJECT
JUNE 2025

NO.	DESCRIPTION	DATE	REVISIONS			

JOB NO:	PR62963
DATE:	JUNE 2025
DESIGNED BY:	BWC
DRAWN BY:	AAA
CHECKED BY:	JMK
APPROVED BY:	
SCALE:	NOTED

STRUCTURE
GENERAL NOTES

SHEET IDENTIFICATION
S-002

SHEET: 13 OF 22

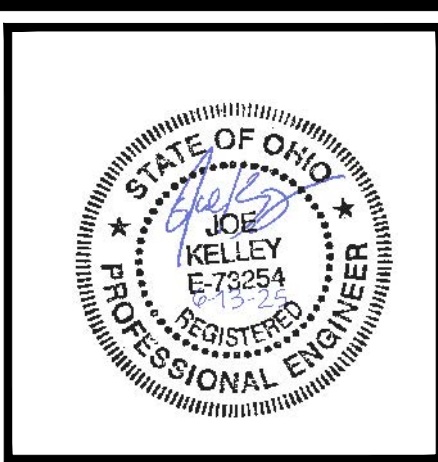
D

C

B

A

ESTIMATED QUANTITIES				CALC	DATE	CHK'D	DATE
				BWC	6/11/25	JMK	6/12/25
ITEM	EXTENSION	UNIT	DESCRIPTION	SUBSTR.	SUPERSTR.	GENERAL	PAGE NUMBER
503	21100	CY	UNCLASSIFIED EXCAVATION	44			
507	98000	FT	PILING, MISC.: HELICAL PILES	332			S-002
507	98010	EACH	PILING, MISC.: HELICAL PILES PRE-PRODUCTION LOAD TEST	1			S-002
509	10000	POUND	EPOXY COATED REINFORCING STEEL	3149			
511	43510	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING	32			
512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	27			
517	76300	FT	RAILING, MISC.: TIMBER APPROACH RAILING			64	S-007
518	21200	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	10			
518	40000	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	28			
518	40012	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE	52			
530	00200	LS	SPECIAL - STRUCTURES: PREFABRICATED STEEL TRUSS		LS		S-002
530	00600	SF	SPECIAL - STRUCTURES: ENGINEERED DECKING		580		S-002
601	32201	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, AS PER PLAN			21	S-002
624	10000	LS	MOBILIZATION			LS	



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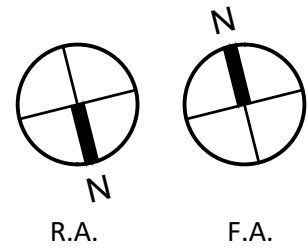
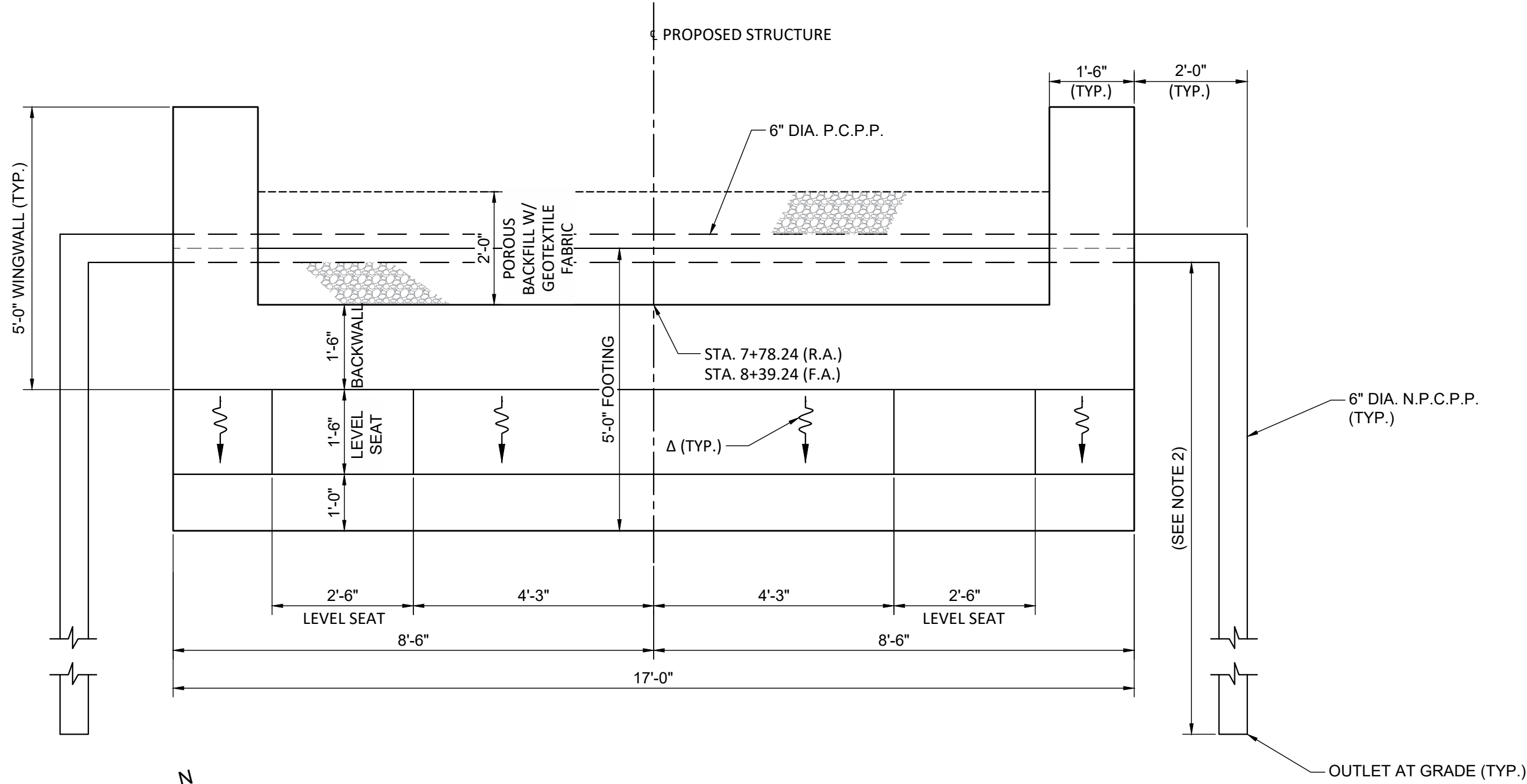
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STRUCTURE
ESTIMATED
QUANTITIES

SHEET IDENTIFICATION
S-003

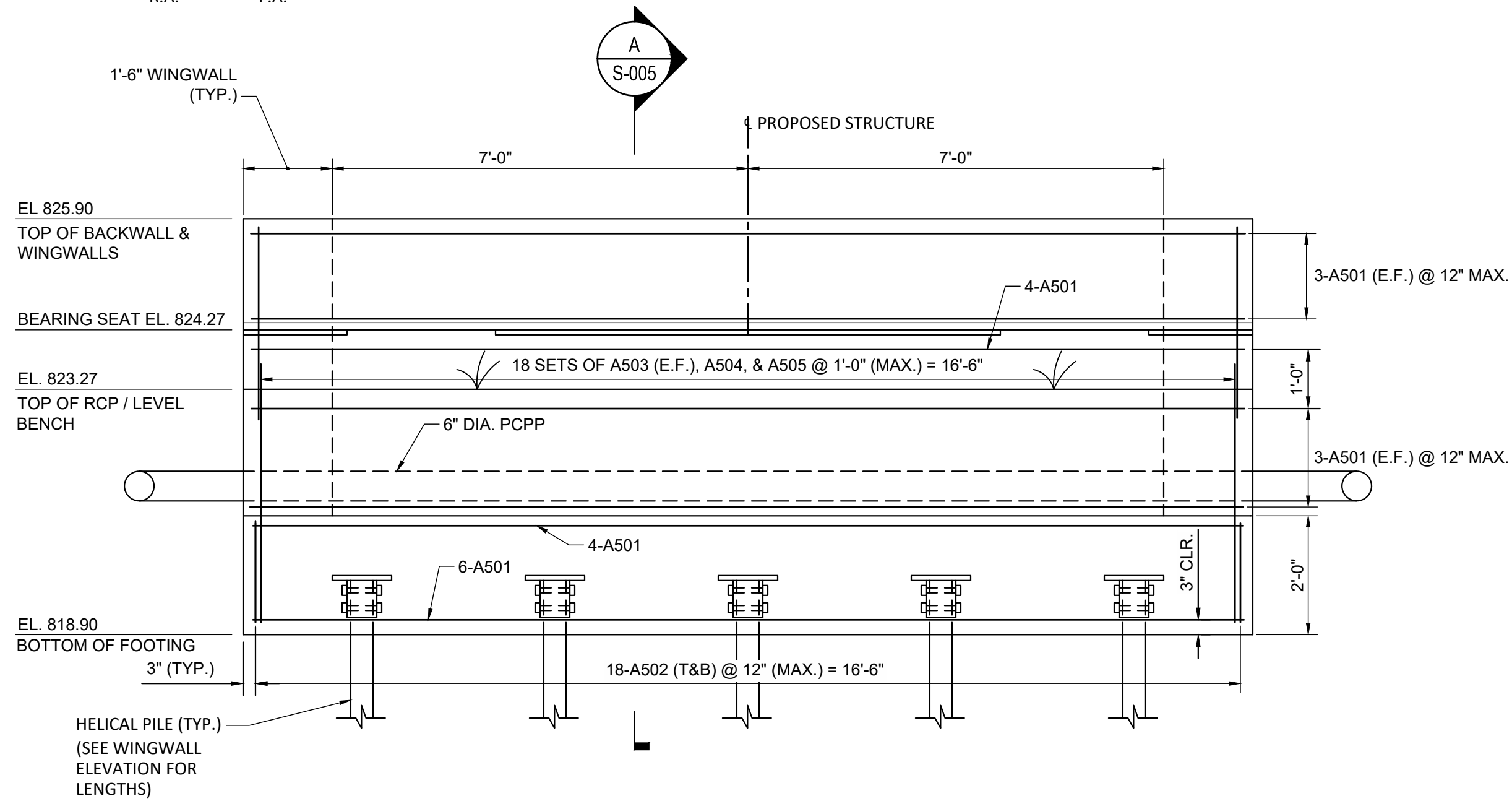
SHEET: 14 OF 22

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C
B
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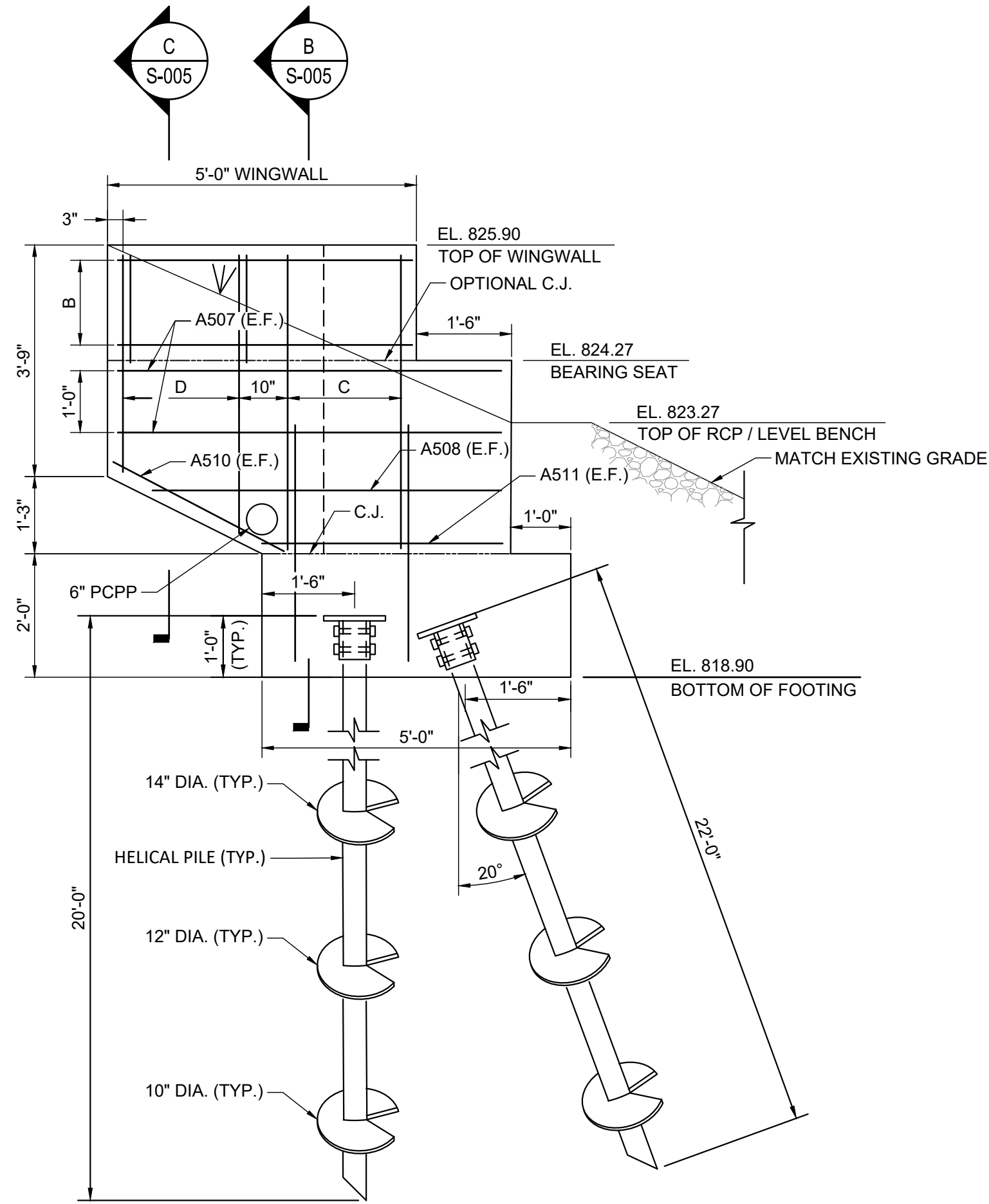
ABUTMENT PLAN

SCALE: 1/2" = 1'-0"
(REAR ABUTMENT SHOWN, FORWARD
ABUTMENT SIMILAR)



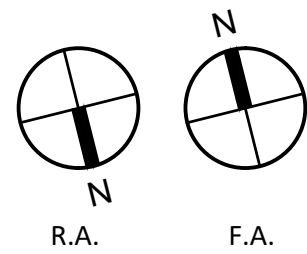
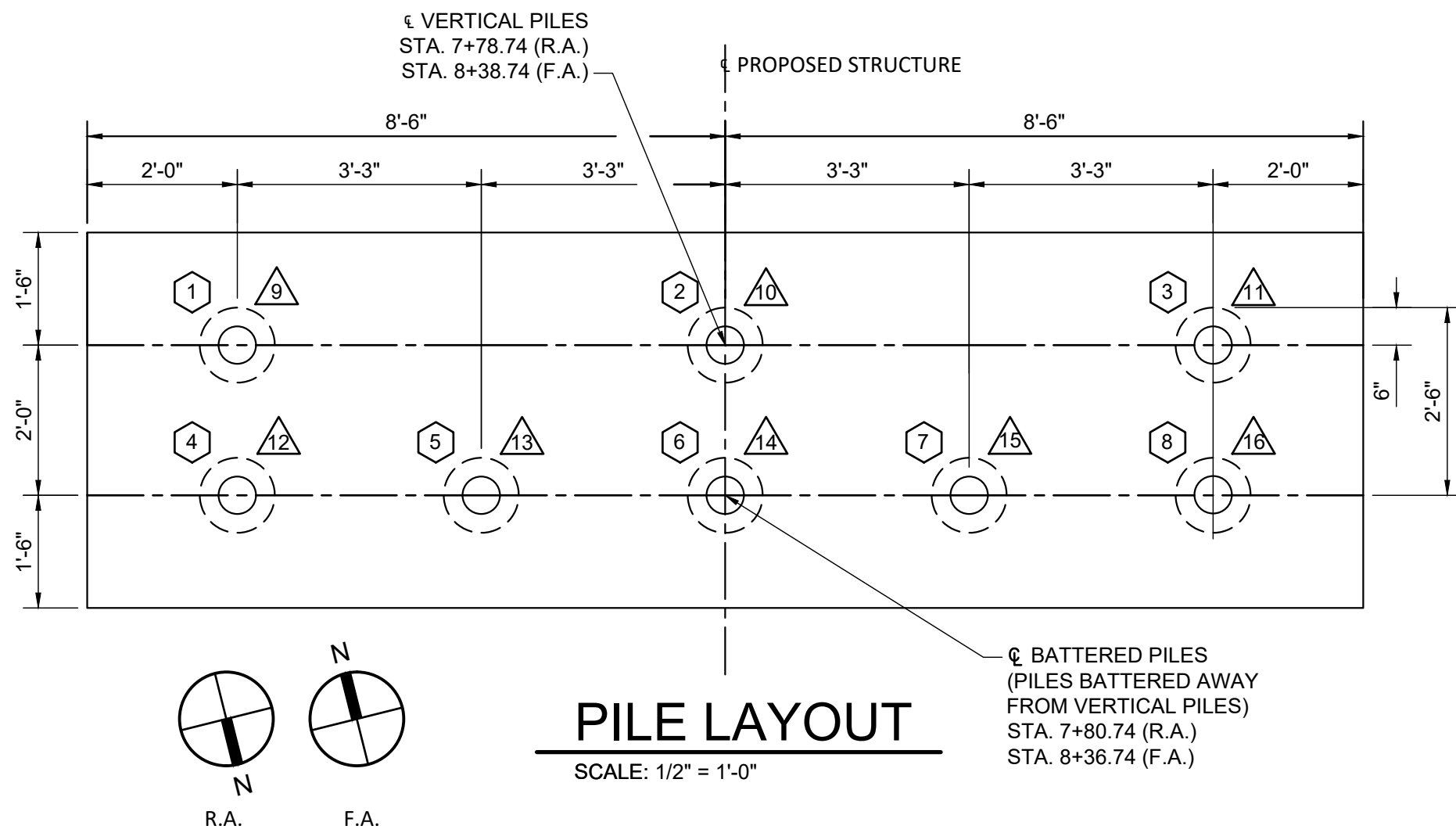
ABUTMENT ELEVATION

SCALE: 1/2" = 1'-0"



WINGWALL ELEVATION

SCALE: 1/2" = 1'-0"
(ABUTMENT AND FOOTING REINFORCING NOT SHOWN)
(REAR ABUTMENT SHOWN, FORWARD ABUTMENT SIMILAR)



PILE LAYOUT

SCALE: 1/2" = 1'-0"

LEGEND:

- Δ = 1" SLOPE BETWEEN LEVEL SEATS AND OUTSIDE OF LEVEL SEATS
B = 3-A506 (E.F.) @ EQ. SPA.
C = 3 SETS OF A503 (E.F.) & A504 (TOP) @ 12" (MAX.) = 1'-10"
D = 1 S.O. 3-A509 @ 12" (MAX.) = 1'-10"
⊗ = PILE NUMBER AT R.A.
⊗ = PILE NUMBER AT F.A.

NOTES:

1. NPCPP LENGTHS SHALL BE AS FOLLOWS:
RA: 12'-0"
FA: 10'-0"
2. MINIMUM LAP LENGTH FOR #5 BAR SHALL BE 2'-1"
3. THE MINIMUM CONCRETE COVER SHALL BE 2" UNLESS NOTED OTHERWISE.



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STRUCTURE
ABUTMENT DETAILS - 1

SHEET IDENTIFICATION
S-004

SHEET: 15 OF 22



SCALE: 1/2" = 1'-0"
(ALL BARS NORMAL TO THE
SECTION ARE A501 BARS)



SCALE: 1/2" = 1'-0"
(FOOTING REINFORCING NOT SHOWN)



SCALE: 1/2" = 1'-0"

* = POROUS BACKFILL WITH GEOTEXTILE FABRIC (SEE NOTE 1)

$\Delta = 1"$ SLOPE BETWEEN BEARING SEATS

$\Delta\Delta$ = LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

E = 4-A501 SPACED AS SHOWN (TOP)
6-A501 @ 12" (MAX.) = 4'-6" (BOTTOM)

1. TURN GEOTEXTILE FABRIC UP 6" AT BASE AND DOWN 6" AT TOP OF BACKWALL AND WINGWALLS.

2. BEARING ANCHOR BOLT LOCATIONS SHALL BE COORDINATED WITH THE PREFABRICATED BRIDGE MANUFACTURER. ANCHORS SHALL BE EITHER CAST-IN-PLACE OR POST-INSTALLED AS DIRECTED BY THE BRIDGE MANUFACTURER. REINFORCING STEEL IN THE VICINITY OF ANCHORS SHALL BE ADJUSTED TO AVOID INTERFERENCE.

3. MINIMUM LAP LENGTH FOR #5 BAR SHALL BE 2'-1"

4. THE MINIMUM CONCRETE COVER SHALL BE 2" UNLESS NOTED OTHERWISE.

[illegible]

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SCALE:	NOTED

SHEET IDENTIFICATION
S-005

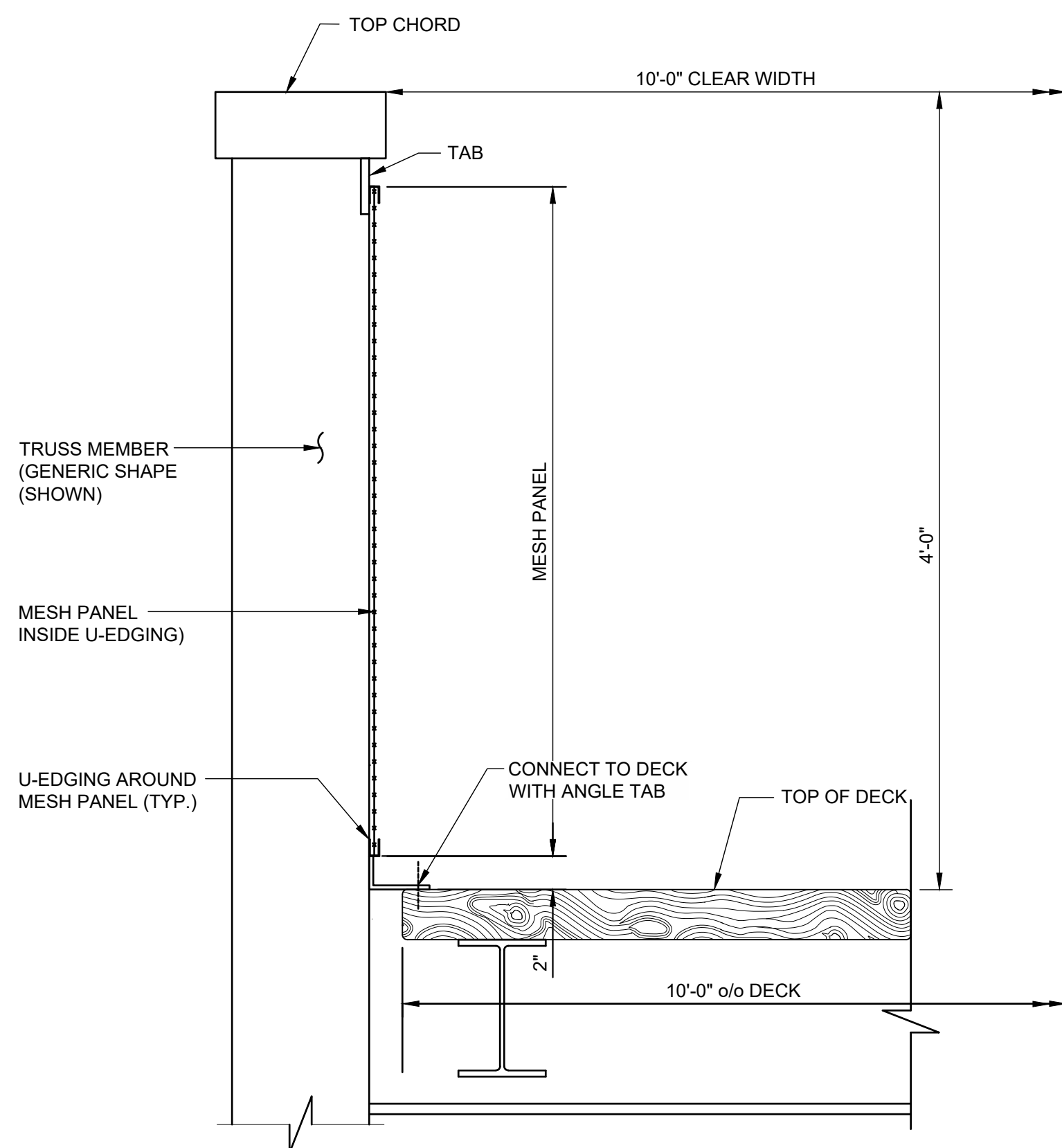
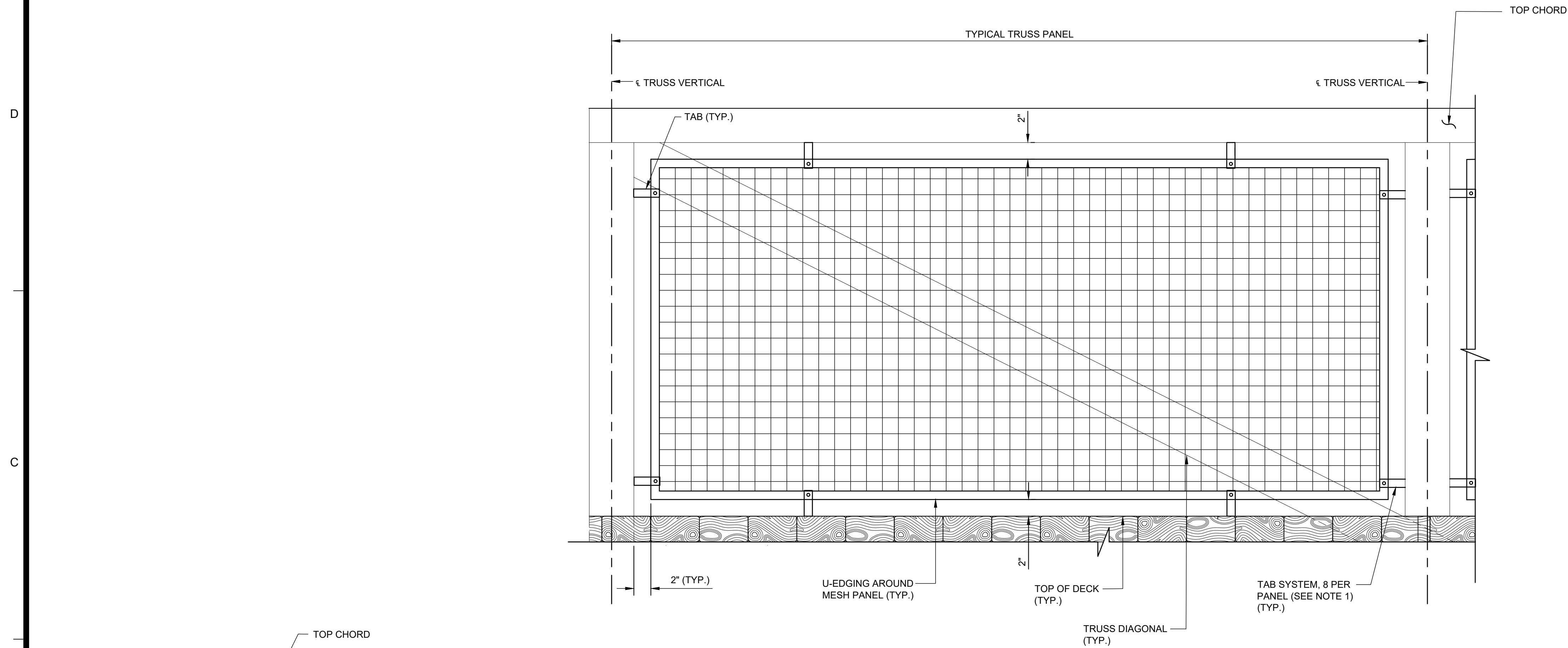
SHEET: 16 OF 22



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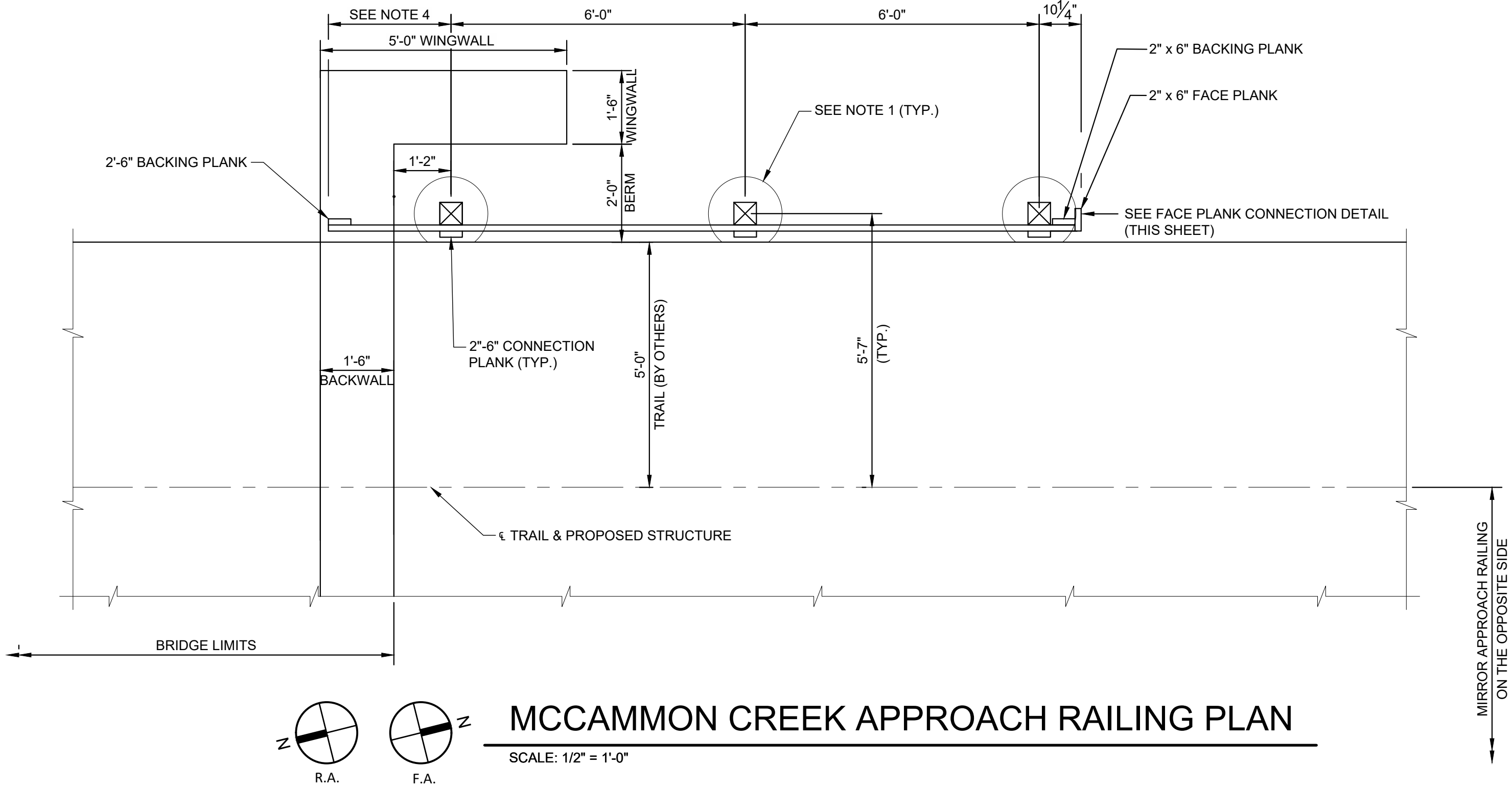
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APPROVED BY:	
SCALE:	NOTED

STRUCTURE RAILING DETAILS

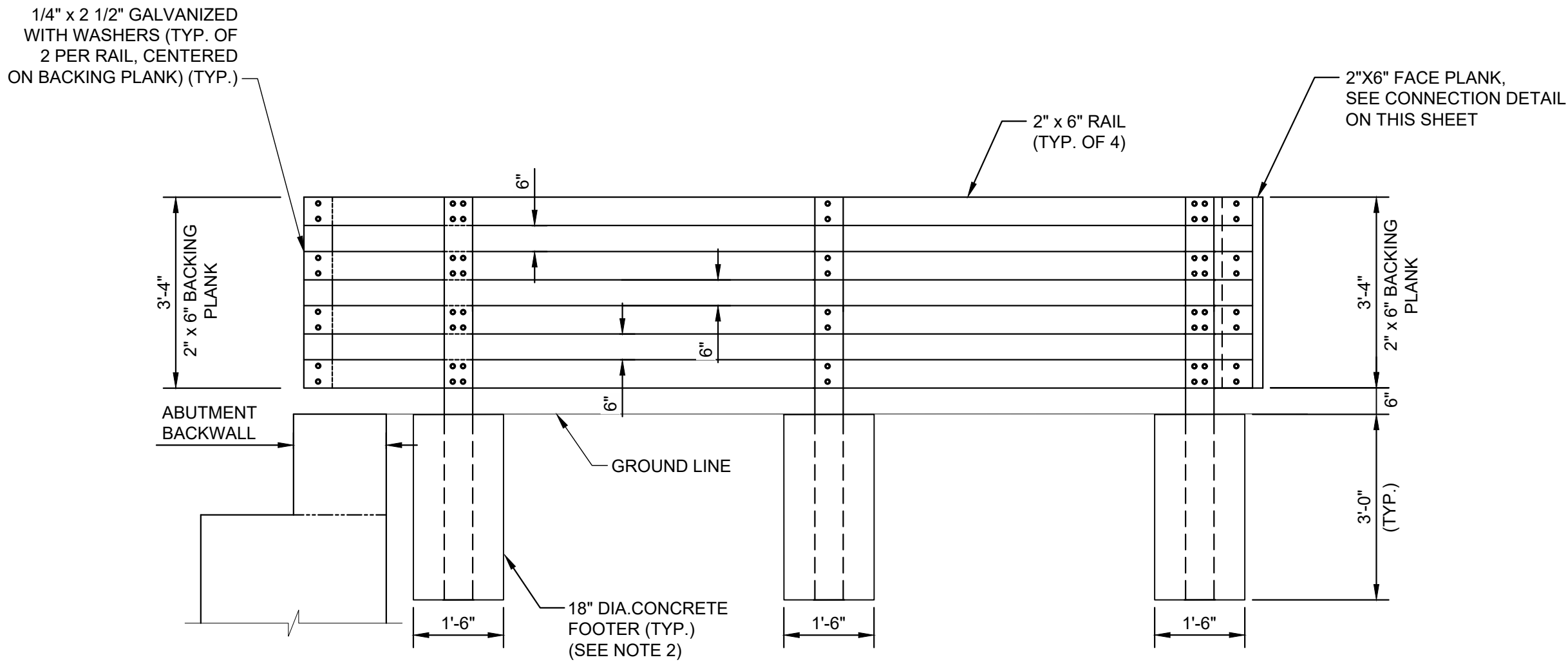
SHEET IDENTIFICATION
S-006

SHEET: 17 OF 22



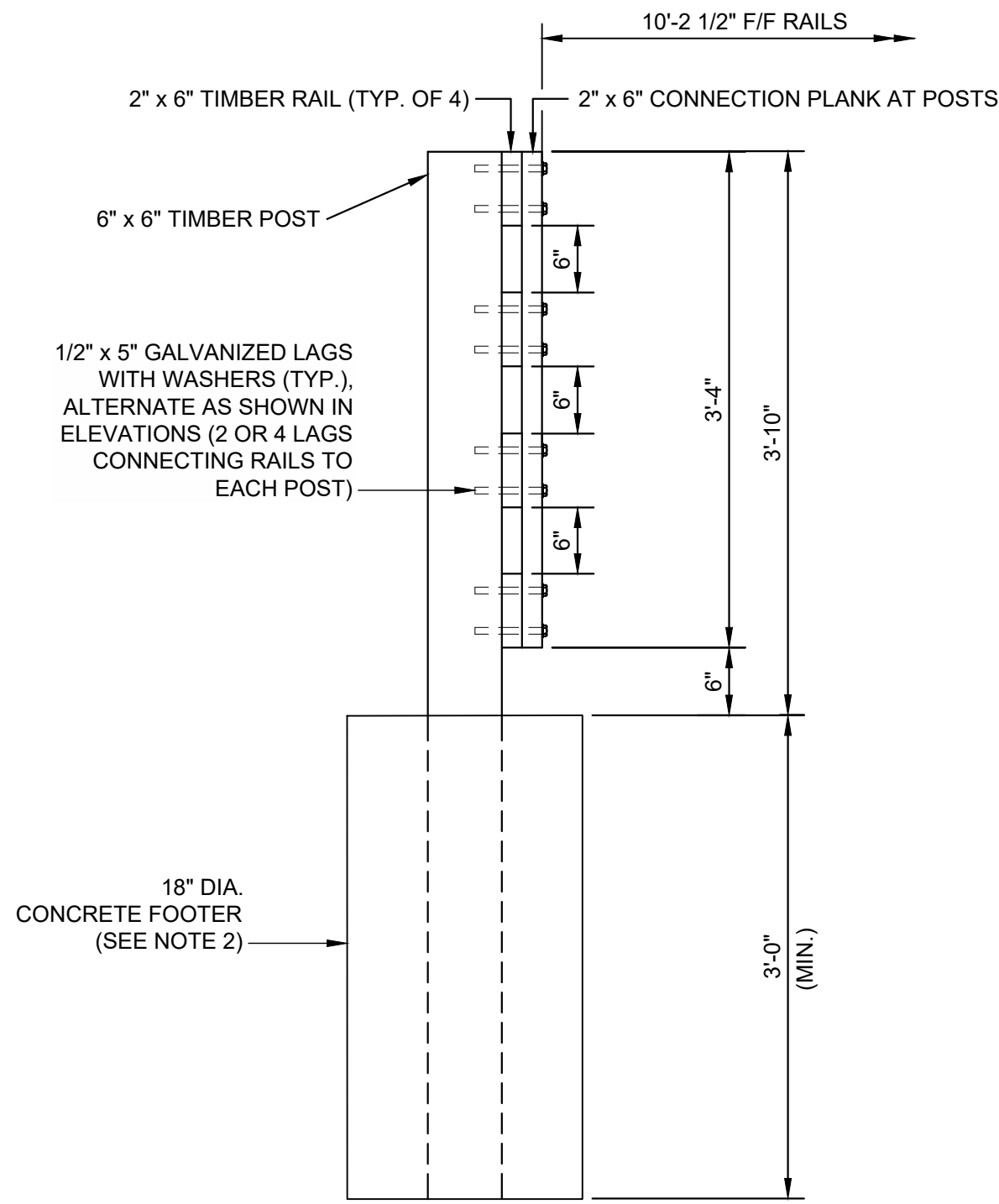
MCCAMMON CREEK APPROACH RAILING PLAN

SCALE: 1/2" = 1'-0"



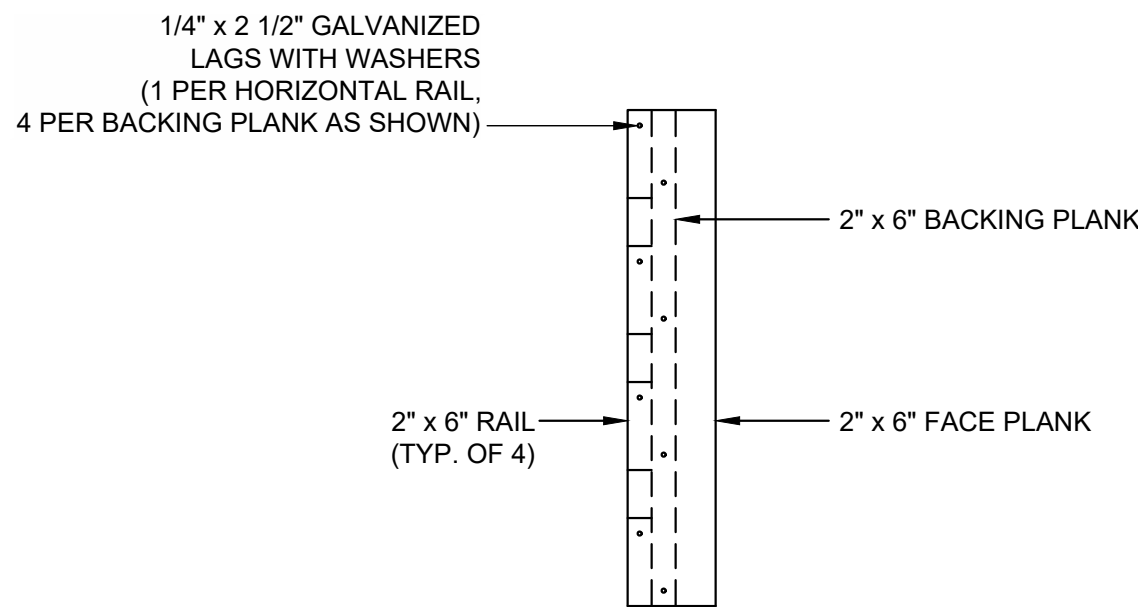
APPROACH RAILING ELEVATION

SCALE: 1/2" = 1'-0"



APPROACH RAILING SECTION

SCALE: 1" = 1'-0"

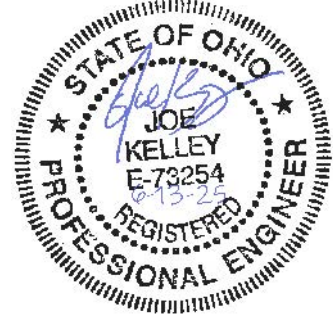


FACE PLANK CONNECTION DETAIL

SCALE: 1" = 1'-0"

NOTES:

- FORM FOR THE CONCRETE POST FOOTER SHALL BE CLIPPED AS SHOWN FOR THE TOP 6" OF THE FORM.
- CONCRETE FOR THE POST FOOTERS SHALL BE CLASS QC1 PER C&MS 511 AND 499.
- ALL FASTENERS SHALL BE GALVANIZED ASTM A307, OR ASTM A36.
- DIMENSION SHALL BE DETERMINED BASED ON TERMINATION OF RAILING AT 2" FROM THE BRIDGE END.
- LUMBER SHALL BE SOUTHERN YELLOW PINE NO. 2 OR BETTER, ACCORDING TO THE SOUTHERN PINE INSPECTION BUREAU (SPIB), SEASONED AT 19% MOISTURE CONTENT. EACH PIECE SHALL BE FACTORY-MARKED WITH GRADE STAMP OF INSPECTION AGENCY VERIFYING COMPLIANCE WITH GRADING RULE REQUIREMENTS AND IDENTIFYING GRADING AGENCY, GRADE, SPECIES, MOISTURE CONTENT AND MILL. ALL LUMBER SHALL BE TREATED PER C&MS 712.06.
- RAIL SPLICES SHALL NOT BE PERMITTED. EACH RAIL SHALL BE A SINGLE PLANK.
- CONCRETE FORMS, CONCRETE, TIMBER, AND HARDWARE SHALL BE INCLUDED WITH ITEM 517 - RAILING, MISC.: TIMBER APPROACH RAILING.



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APPROVED BY:	
SCALE:	NOTED

STRUCTURE
APPROACH
RAILING DETAILS

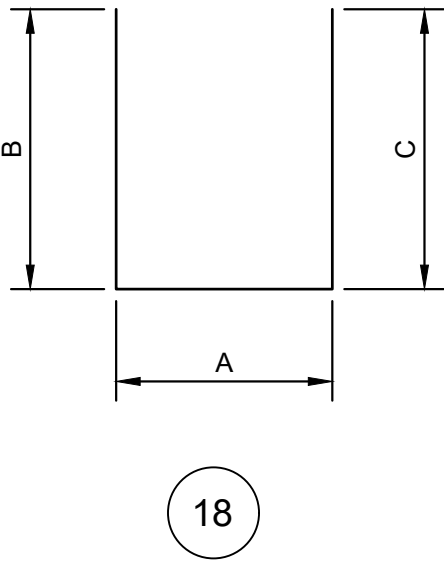
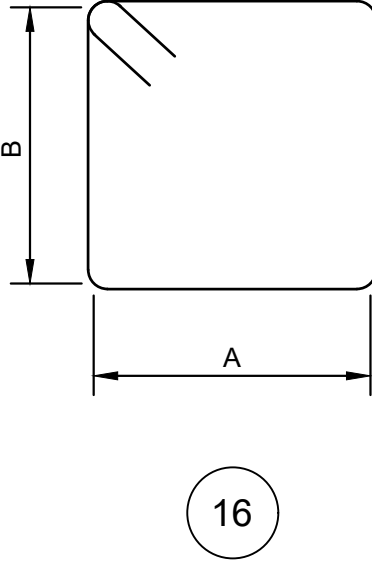
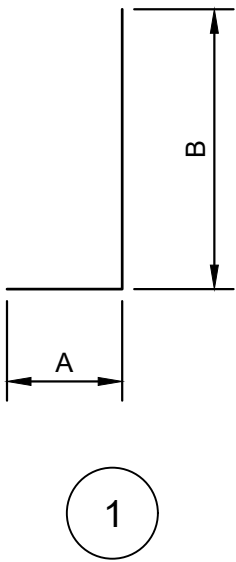
SHEET IDENTIFICATION
S-007

SHEET: 18 OF 22

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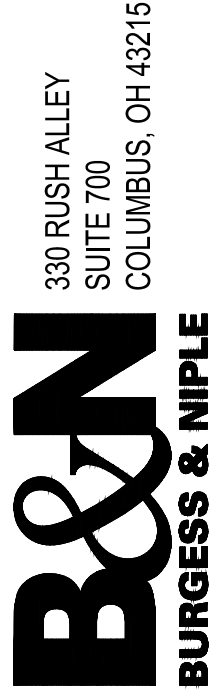
P:\PR62963\06 CAD\Sheets\S-008 STRUCTURE REINFORCING STEEL LIST.dwg 6/22/2025 11:15:03 AM Ryan VanZandt

REINFORCING STEEL LIST										
MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E/RAD.	INCR.
A501	52	16'-8"	904	STR.						
A502	72	7'-7"	569	18	4'-8"	1'-7"	1'-7"			
A503	96	5'-7"	559	1	0'-10"	4'-10"				
A504	48	8'-1"	405	18	1'-2"	3'-7"	3'-7"			
A505	36	6'-7"	247	18	2'-8"	2'-1"	2'-1"			
A506	24	4'-8"	117	STR.						
A507	16	6'-2"	103	STR.						
A508	8	6'-0"	50	STR.						
	4	9'-9"			1'-2"	3'-5"				
A509	S.O.	TO	138	16	TO	TO				1'-3"
	3	12'-3"			1'-2"	4'-8"				
A510	8	2'-10"	24	STR.						
A511	8	4'-0"	33	STR.						
		TOTAL	3149							



- NOTES
- ALL REINFORCING STEEL SHALL BE EPOXY COATED.
 - BAR SIZE: THE BAR SIZE IS INDICATED IN THE BAR MARK. THE MARK BEGINS WITH TWO OR THREE LETTERS OR NUMBERS THAT IDENTIFY THE BAR LOCATION. THE NEXT ONE OR TWO DIGITS INDICATE THE BAR SIZE, AND THE REMAINING TWO DIGITS ARE THE SEQUENCE NUMBER.

EXAMPLE: A501
A = ABUTMENT BAR
5 = #5 BAR
01 = BAR SEQUENCE NUMBER 1
 - BAR DIMENSIONS SHOWN ARE OUT-TO-OUT UNLESS OTHERWISE INDICATED.
 - STR. IN THE BAR TYPE COLUMN INDICATES A STRAIGHT BAR.
 - INCR. INDICATES THE LENGTH INCREMENT FOR SERIES BARS.



PRESERVATION PARKS OF
DELAWARE COUNTY
MCCAMMON CREEK PARK
EAST AREA PARKING LOT AND
PEDESTRIAN BRIDGE PROJECT
JUNE 2025

REVISIONS		DATE
NO.	DESCRIPTION	

JOB NO:	PR62963
DATE:	JUNE 2025
DESIGNED BY:	BWC
DRAWN BY:	AAA
CHECKED BY:	JMK
APPROVED BY:	
SCALE:	NOTED
STRUCTURE REINFORCING STEEL LIST	

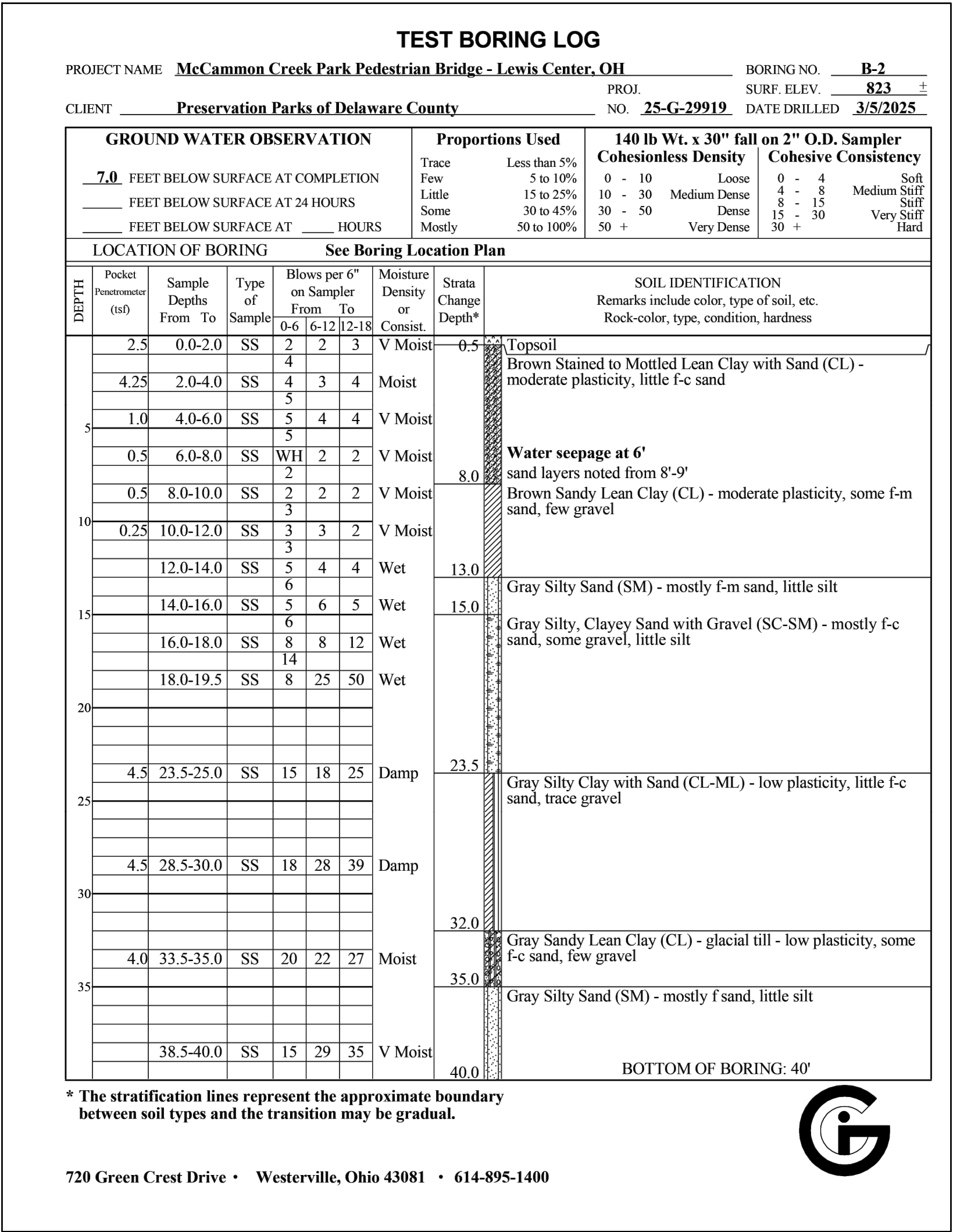
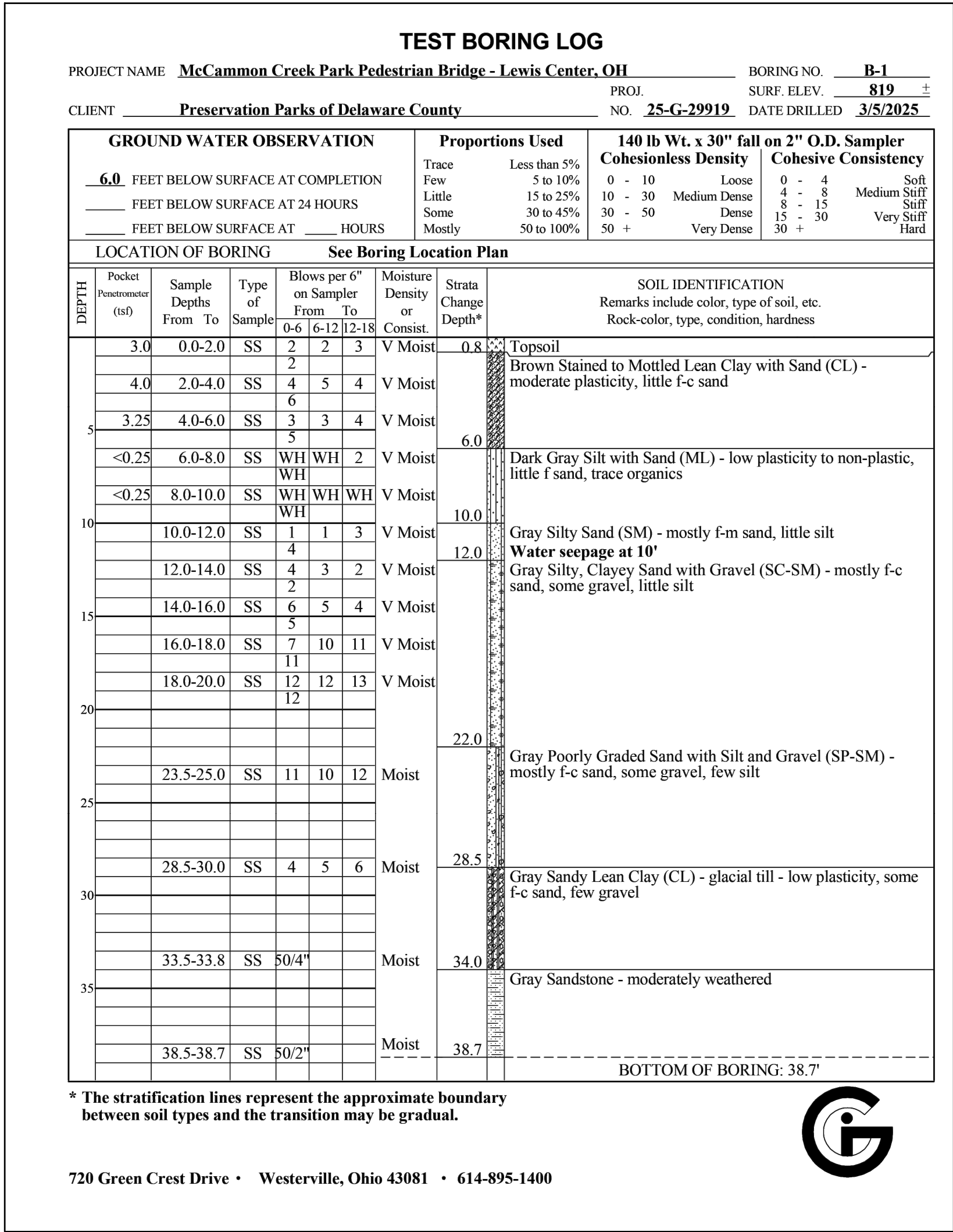
SHEET IDENTIFICATION S-008	
SHEET:	19 OF 22

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PRESERVATION PARKS OF
DELAWARE COUNTY
MCCAMMON CREEK PARK
EAST AREA PARKING LOT AND
PEDESTRIAN BRIDGE PROJECT
JUNE 2025

[illegible]

JOB NO:	PR62963
DATE:	JUNE 2025
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DRAWN BY:	AAA
CHECKED BY:	JMK
APPROVED BY:	
SCALE:	NOTED

SHEET IDENTIFICATION
S-009

SHEET: **20** OF **22**

B&N
BURGESS & NIPLE

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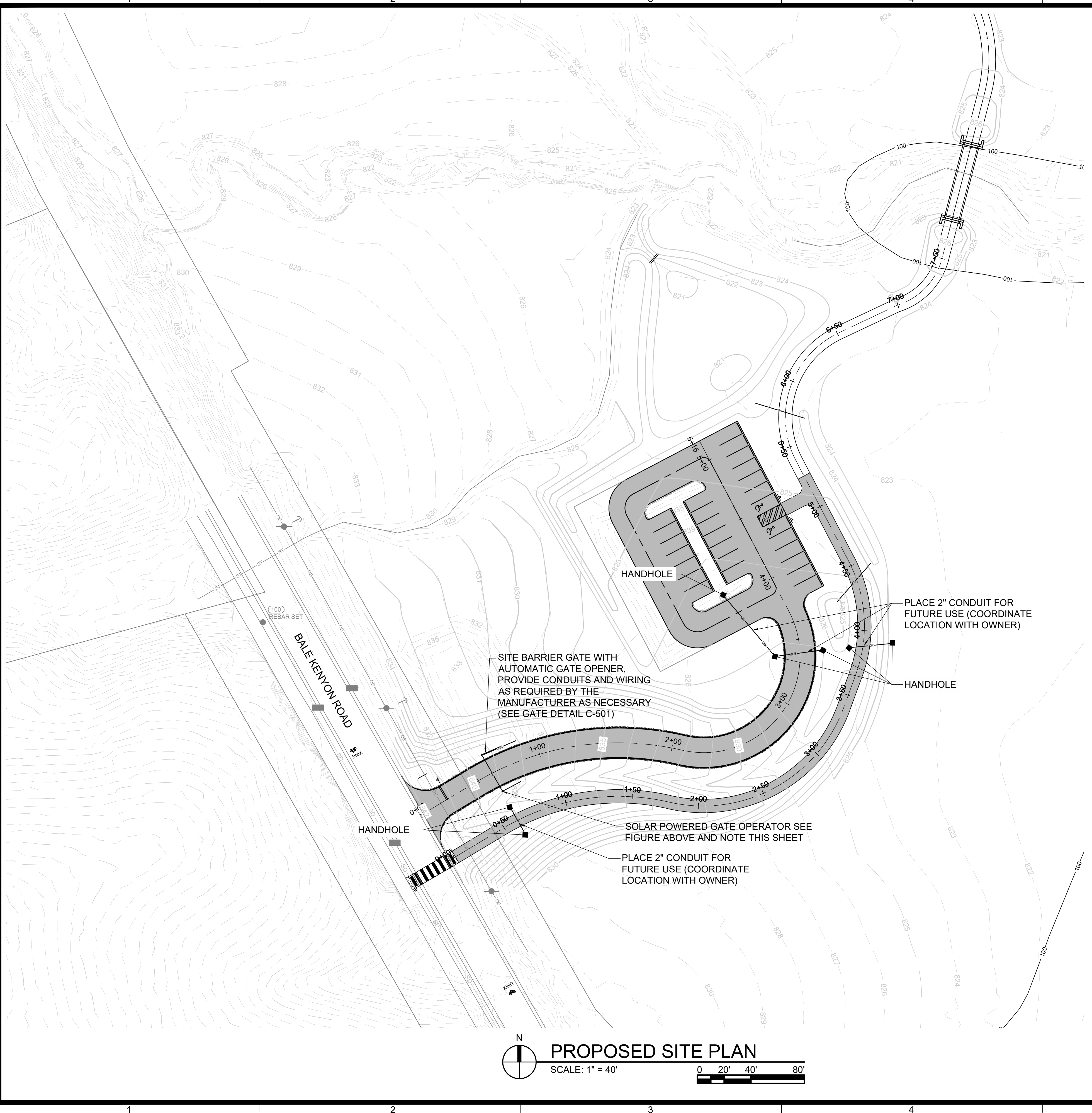
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SPECIAL ITEM: SOLAR POWERED GATE OPERATOR:

1. PROVIDE SOLAR POWERED GATE OPERATOR, LIFTMASTER LA412XL OR EQUAL WITH ACCESSORIES LISTED BELOW TO PROVIDE A COMPLETE OPERATIONAL SYSTEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ROUTE CONDUCTORS IN 3/4" UNO PVC CONDUIT SUITABLE FOR DIRECT BURIAL AND SUNLIGHT RESISTANT.



CONDUIT TO AUTOMATIC GATE OPENER EXIT SENSOR



1" CONDUIT UNDER ROADWAY TO SECONDARY OPENER.

AUTO OPENER PARTS LIST

- LA412XL-MC PRIMARY SOLAR OPERATOR
- LA412 SECONDARY OPENER
- 20W UPGRADED SOLAR PACKAGE
- 12V35AH UPGRADED BATTERY
- LV 7 DAY TIMER
- FT50 EXIT SENSOR
- WIRELESS KEYPAD
- BYPASS TOGGLE SWITCH

SOLAR POWERED GATE OPERATOR
SCALE: NOT TO SCALE

LEGEND

- ASPHALT PAVEMENT
- CONCRETE WALK
- PEDESTRIAN BRIDGE



B&N
BURGESS & NIPLE
330 RUSH ALLEY
SUITE 700
COLUMBUS, OH 43215

PRESERVATION PARKS OF
DELAWARE COUNTY
MCCAMMON CREEK PARK
EAST AREA PARKING LOT AND
PEDESTRIAN BRIDGE PROJECT
JUNE 2025

NO.	REVISIONS DESCRIPTION	DATE

JOB NO:	PR62963
DATE:	JUNE 2025
DESIGNED BY:	JVW
DRAWN BY:	AC
CHECKED BY:	CN
APPROVED BY:	CN
SCALE:	NOTED
ELECTRICAL SITE PLAN	

SHEET IDENTIFICATION	
E-100	
SHEET:	21 OF 22

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SECTION 26 01 00 - ELECTRICAL GENERAL PROVISIONS

THE PROVISIONS OF THE INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, ALTERNATES, AND ADDENDA ARE A PART OF THIS SPECIFICATION. ELECTRICAL, CIVIL, STRUCTURAL, AND ALL OTHER DRAWINGS AS WELL AS THE SPECIFICATIONS FOR ALL THE DIVISIONS SHALL BE DEFINED AS THE CONTRACT DOCUMENTS. CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS PRIOR TO BIDDING FOR ADDITIONAL PROJECT REQUIREMENTS WHICH MAY AFFECT WORK UNDER THIS DIVISION.

VISIT THE SITE OF THE WORK AND BECOME FAMILIAR WITH THE CONDITIONS AFFECTING THE INSTALLATION. SUBMISSION OF A PROPOSAL SHALL PRESUPPOSE KNOWLEDGE OF SUCH CONDITIONS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED WHERE EXTRA LABOR OR MATERIALS ARE REQUIRED BECAUSE OF IGNORANCE OF THESE CONDITIONS.

DEFINITIONS:

"CONTRACTOR" AS USED WITHIN THE CONTEXT OF THE ELECTRICAL CONTRACT DOCUMENTS SHALL EXPLICITLY REFER TO THE "ELECTRICAL CONTRACTOR" AND THE ELECTRICAL CONTRACTOR'S "SUBCONTRACTORS".

THE TERM "FURNISH" SHALL MEAN TO SUPPLY AND DELIVERY TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.

THE TERM "INSTALL" SHALL MEAN WORK WHICH INCLUDES THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS.

THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

THE TERM "EQUAL" SHALL MEAN TO MEET OR EXCEED THE STANDARDS OF THE SPECIFIED PRODUCTS OR LISTED MANUFACTURERS.

THE TERM "CONTRACT DOCUMENTS" SHALL REFER TO THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS FOR ALL DIVISIONS INCLUDED IN THE PROJECT.

INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, SERVICES AND PERMITS NECESSARY FOR THE PROPER COMPLETION OF ALL ELECTRICAL WORK SHOWN. ITEMS OMITTED, BUT NECESSARY, TO MAKE THE ELECTRICAL SYSTEMS COMPLETE AND WORKABLE SHALL BE UNDERSTOOD TO FORM PART OF THE WORK. SECURE AND PAY FOR PERMITS AND INSPECTIONS REQUIRED FOR ELECTRICAL WORK.

IT IS THE PURPOSE OF THE ELECTRICAL DRAWINGS TO INDICATE THE APPROXIMATE LOCATION OF ALL EQUIPMENT, DEVICES, ETC. ASCERTAIN EXACT LOCATIONS AND ARRANGE WORK ACCORDINGLY. THE RIGHT IS RESERVED TO EFFECT REASONABLE CHANGES IN THE LOCATION OF DEVICES UP TO THE TIME OF ROUGHING-IN, WITHOUT ADDITIONAL COST TO THE OWNER. CHANGES IN LOCATION OF DEVICES RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THE CONTRACT DRAWING OR SPECIFICATION REQUIREMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

INCLUDE ALL TESTING, TEST REPORTS, SYSTEM PROGRAMMING AND WARRANTIES FOR EACH SYSTEM AS OUTLINED ELSEWHERE IN THESE SPECIFICATIONS.

WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF LOCAL AND STATE CODES, AS WELL AS THE NATIONAL ELECTRICAL CODE (NEC), AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

CONSULT THE DRAWINGS, PRODUCT DATA AND SHOP DRAWINGS COVERING THE WORK FOR VARIOUS OTHER TRADES, THE FIELD LAYOUTS OF THE CONTRACTORS FOR THE TRADE AND MAKE ADJUSTMENTS ACCORDINGLY IN LAYING OUT THE ELECTRICAL WORK.

WARRANT THAT EQUIPMENT AND ALL WORK IS INSTALLED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE AND THAT ALL EQUIPMENT WILL MEET THE REQUIREMENTS SPECIFIED. GUARANTEE AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS. REPAIR OR REPLACE ANY DEFECTIVE WORK, MATERIAL OR EQUIPMENT WITHIN ONE YEAR FROM DATE OF FORMAL WRITTEN ACCEPTANCE BY THE OWNER. LONGER PRODUCT WARRANTIES PROVIDED BY INDIVIDUAL EQUIPMENT MANUFACTURERS SHALL SUPERSEDE THIS ONE YEAR GUARANTEE. HOWEVER, THE CONTRACTOR SHALL MAINTAIN THE ONE YEAR WORKMANSHIP AND MATERIALS GUARANTEE FOR INSTALLATION OF SUCH EQUIPMENT. COORDINATE GUARANTEE AND WARRANTY REQUIREMENTS WITH DIVISION 1 SPECIFICATIONS.

EQUIPMENT AND MATERIALS USED ON THIS PROJECT SHALL BE NEW AND U.L. LABELED FOR THE APPLICATION.

PREPARE SHOP DRAWINGS AND PRODUCT DATA, TO INCLUDE DIMENSIONED DRAWINGS AND WIRING DIAGRAMS, FOR GATE OPERATOR AND ALL OTHER SPECIFIED SYSTEMS AND COMPONENTS. THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL PRIOR TO SUBMISSION, AND CHECK FOR COMPLIANCE WITH CONTRACT DOCUMENTS. THE SUBMITTALS WILL BE REVIEWED ONLY FOR GENERAL COMPLIANCE AND NOT FOR DIMENSIONS, QUANTITIES, ETC. THE SUBMITTALS THAT ARE RETURNED SHALL BE USED FOR PROCUREMENT. THE RESPONSIBILITY OF CORRECT PROCUREMENT REMAINS SOLELY WITH THE CONTRACTOR. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS AND DEVIATIONS FROM THE CONTRACT REQUIREMENTS. IF THE SUBMITTAL SHOWS VARIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS FOR ANY REASON, THE CONTRACTOR SHALL MAKE MENTION OF SUCH VARIATION IN THE LETTER OF TRANSMITTAL. THE CONTRACTOR SHALL NOTE IN RED ON THE SUBMITTAL ANY CHANGE IN DESIGN OR DIMENSION ON THE ITEMS SUBMITTED INCLUDING CHANGES MADE BY THE MANUFACTURER WHICH MAY DIFFER FROM CATALOG INFORMATION. WHERE CONTENTS OF SUBMITTAL LITERATURE INCLUDES DATA NOT PERTINENT TO THE SUBMITTAL, CLEARLY INDICATE WHICH PORTION OF CONTENT IS BEING SUBMITTED FOR REVIEW. WHERE ADDITIONAL INSTALLATION DRAWINGS, WIRING DIAGRAMS OR OTHER DRAWINGS ARE SPECIFIED AS A PART OF THE SUBMITTAL, THEY SHALL BE SUBMITTED AT THE SAME TIME WITH SHOP DRAWINGS AND PRODUCT DATA. PARTIAL SUBMITTALS ARE NOT ACCEPTABLE. SUBMITTALS THAT DO NOT BEAR THE CONTRACTOR'S APPROVAL STAMP WILL BE RETURNED WITHOUT ACTION. THE CONTRACTOR SHALL KEEP ONE COMPLETE SET OF THE CONTRACT DRAWINGS ON THE PROJECT SITE ON WHICH SHALL BE RECORDED ANY DEVIATIONS OR CHANGES FROM SUCH CONTRACT DRAWINGS MADE DURING CONSTRUCTION. THE UPDATED CONTRACT DRAWINGS SHALL BECOME "RECORD DRAWINGS" OF THE COMPLETED CONSTRUCTION. AFTER THE PROJECT IS COMPLETED, THE RECORD DRAWINGS SHALL BE DELIVERED TO THE ARCHITECT IN GOOD CONDITION, AS A PERMANENT RECORD OF THE INSTALLATION AS CONSTRUCTED. REFER TO DIVISION 1 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO RECORD DRAWINGS.

IDENTIFY SPARE CONDUITS AND CONDUIT STUBS AS FOLLOWS: IDENTIFY SYSTEM AND/OR PURPOSE AT SOURCE, IF POSSIBLE, AND AT TERMINATION END. ALSO, AT TERMINATION END, INDICATE LOCATION OF CONDUIT ORIGINATION.

AFTER INSTALLATION, TEST FOR GROUNDS, SHORT CIRCUITS AND PROPER FUNCTION OF EACH NEW SYSTEM AND RELATED WIRING. FAULTS IN THE INSTALLATION SHALL BE CORRECTED.

INSULATION RESISTANCE TESTS SHALL BE MADE ON THE NEW ELECTRICAL SYSTEM WITH AN APPROVED MEGOHMMETER.

A GROUND CONTINUITY TEST SHALL BE MADE ON THE ENTIRE GROUNDING SYSTEM FROM THE SERVICE TO EVERY NEW OUTLET.

AFTER ALL TESTS AND ADJUSTMENTS HAVE BEEN COMPLETED, CLEAN ALL EQUIPMENT LEAVING EVERYTHING IN WORKING ORDER AT THE COMPLETION OF THIS WORK. CLEAN DEVICE COVERPLATES, PANEL AND CABINET INTERIORS AND EXTERIORS, ETC., OF DIRT, DUST, DEBRIS AND PAINT, AFTER ALL OTHER TRADES HAVE COMPLETED THEIR WORK.

SECTION 26 03 00 - ELECTRICAL BASIC MATERIALS AND METHODS

RACEWAYS:

EXTERIOR UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. SUCH CONDUIT SHALL BE ENCASED IN CONCRETE UNDER DRIVES OR ROADWAYS, WITH A 3" ENVELOPE, MINIMUM.

WIRING DEVICES:

WIRE AND CABLE FOR BRANCH CIRCUITS AND FOR FEEDERS SHALL BE 90°C, 600 VOLT, TYPE THHN/THWN, COPPER ONLY, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. TYPE XHHW SHALL ALSO BE ACCEPTABLE FOR FEEDERS. MINIMUM SIZE FOR BRANCH CIRCUITS SHALL BE #12. ALL 600 VOLT WIRING SHALL BE IN CONDUIT. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR WITH ALL BRANCH CIRCUITS.

IDENTIFY WIRE AND CABLE FOR BRANCH CIRCUITS AS CALLED FOR IN THE NATIONAL ELECTRICAL CODE.

ALL HARDWARE, SUPPORTS, HANGERS, BRACKETS, ANGLE IRON, CHANNELS, RODS AND CLAMPS NECESSARY TO INSTALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED TO SUIT THE FIELD CONDITIONS AND THE APPLICATIONS INTENDED AS SHOWN ON THE DRAWINGS.

STATE OF OHIO
COLLEEN M. NELSON
E-80924
06/20/2025
REGISTERED
PROFESSIONAL ENGINEER

330 RUSH ALLEY
SUITE 700
COLUMBUS, OH 43215
B&N
BURGESS & NIPLE

PRESERVATION PARKS OF DELAWARE
COUNTY
MCCAMMON CREEK PARK
EAST AREA PARKING LOT AND
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CHECKED BY: CN

APPROVED BY: CN

SCALE: NOTED

ELECTRICAL SPECIFICATIONS

SHEET IDENTIFICATION
E-101

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