



Know what's below. Call before you dig.

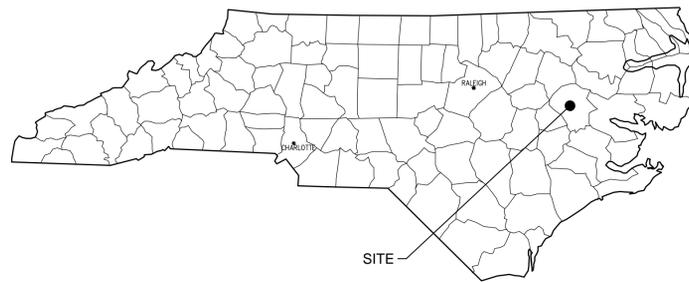
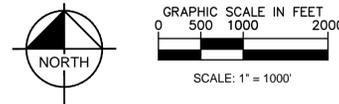
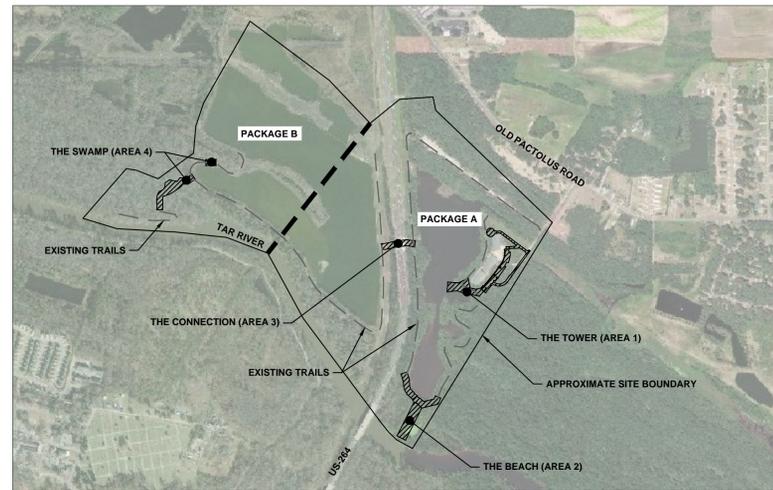
CONSTRUCTION DOCUMENTS FOR WILDWOOD PARK - TOWER AND TRAILS

BID PACKAGE B1

CITY OF GREENVILLE
RECREATION & PARKS DEPARTMENT
2000 CEDAR LANE
GREENVILLE, NC 27858
PITT COUNTY

OVERALL SITE DATA	
MUNICIPALITY:	CITY OF GREENVILLE
OWNER:	CITY OF GREENVILLE, PO BOX 7207 GREENVILLE, NC 27835
LAND USE CLASSIFICATION:	(6) RECREATIONAL/ENTERTAINMENT
TOTAL PARCEL ACREAGE:	566 ACRES
TOTAL SITE ACREAGE:	283 ACRES
PROPOSED TOWER GROSS FLOOR AREA:	1,023 SF (0.02 ACRES)
PROPOSED TOWER HEIGHT:	120 FEET (12 STORIES)
TOTAL PARKING:	N/A
TOTAL ACCESSIBLE PARKING:	N/A
TOTAL AREA DISTURBED:	1.83 ACRES
EXISTING IMPERVIOUS AREA:	134,600 SF (3.09 ACRES)
PROPOSED IMPERVIOUS AREA:	22,652 SF (0.52 ACRES)
TOTAL IMPERVIOUS AREA:	157,252 SF (3.61 ACRES)
WATERSHED:	JOHNSON MILL/PARKERS CREEK /TAR-PAMLICO WATERSHED

PARCEL DATA					
PARCEL	1	2	3	4	5
NCPIN:	4698725454	4698536478	4698436559	4698432018	4698635909
PARCEL NUMBER:	086710	022504	035488	024274	028993
OWNER:	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE
PHYSICAL ADDRESS:	3450 BLUE HERON DR	0 NE GREENVILLE BV	0 OLD PACTOLUS RD	0 OLD PACTOLUS RD	1000 MUMFORD RD
LEGAL DESCRIPTION:	PHILLIP E. CARROLL	BOYD	TRIPP	RED BANKS (PITT #37)	RIVER PARK NORTH
MAP/BLOCK/LOT	4698-15-72-5454-000	4698-15-53-6478-000	4698-14-43-6559-000	4698-14-43-2018-000	4698-15-63-5909-000
DEED REFERENCE	DB. 4012 PG. 124	DB. 4049 PG. 261	DB. 4049 PG. 261	DB. 4049 PG. 261	NOT FOUND
CURRENT ZONING	HEAVY COMMERCIAL	OFFICE-RESIDENTIAL	OFFICE-RESIDENTIAL	OFFICE-RESIDENTIAL	INDUSTRY
CENSUS TRACT:	800	800	800	800	800
PARCEL ACREAGE:	101	137	28	7	293
APPROXIMATE IMPERVIOUS AREA:	3.09 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC

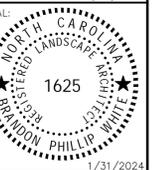


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No.	REVISIONS	DATE	BY
8	IFC PACKAGE B1	05/17/24	ADC
7	ISSUED FOR CONSTRUCTION	1/31/24	DAW
6	CITY OF GREENVILLE - TRC - 3RD SUBMITTAL	12/01/22	ASA
5	ISSUED FOR BID	8/02/22	ASA

Kimley-Horn
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KHA PROJECT	012654010
DATE	1/31/2024
SCALE AS SHOWN	AS SHOWN
DESIGNED BY	MRG
DRAWN BY	ASA
CHECKED BY	JDK

COVER SHEET

WILDWOOD PARK - TOWER AND TRAILS BID PACKAGE B1 PREPARED FOR CITY OF GREENVILLE

PROJECT DESIGN TEAM

OWNER/DEVELOPER

CITY OF GREENVILLE
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City of Greenville Site Plan Approval	
Date _____	
<input type="checkbox"/> Approved	<input type="checkbox"/> Approved as Noted
Zoning	Engineering
Surveyor/Floodplain	Inspections
Fire/Rescue	GUC electric
GUC water/sewer	GUC gas
NCDOT	Vegetation
Traffic Services	Notes
*Site plan approval ONLY. Engineer/Architect/Surveyor shall be responsible for adequacy of design, errors or omissions in the plans. All plans shall meet all specifications, standards and applicable regulations.	

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GENERAL CONSTRUCTION NOTES



Know what's below.
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1. ALL MAJOR AND MINOR CONSTRUCTION SHALL CONFORM TO THE CITY OF GREENVILLE AND ALL CITY ORDINANCES AND COMMISSION MUNICIPAL CODES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIAL AND LABOR NECESSARY TO COMPLETE THE PROJECT AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE UNDERGROUND OR AERIAL UTILITIES WITHIN OR ADJACENT TO THE PROJECT PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES AND THE CITY OF GREENVILLE AND GREENVILLE UTILITIES COMMISSION PRIOR TO BEGINNING CONSTRUCTION. AN INFORMAL LIST OF UTILITY CONTACTS ARE AS FOLLOWS:
ELECTRIC - BRIAN MURPHY
PHONE: 252-329-4416
GAS - JASON CYPHERS
PHONE: 252-551-3313
DRAINAGE - KENDALL PARAMORE
PHONE: 252-524-4000
WATER AND SANITARY SEWER- MICKEY TRIPP
PHONE: 252-551-1555
FIRE - BRYANT BEDDARD
PHONE: 252-329-4416

4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER GRADE BY THE CONTRACTOR PRIOR TO AND AFTER PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS PROJECT.

5. THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY RECORDS AND PLANS AND ARE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING AND CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL PRESERVE AND PROTECT PUBLIC UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT CONTRACTOR'S EXPENSE. THE ARCHITECT/ENGINEER SHALL BE IMMEDIATELY NOTIFIED WHEN PROPOSED GRADES CONFLICT WITH EXISTING UTILITIES.

6. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND DEPTH OF ALL FRANCHISE UTILITY SERVICES AND ANY REQUIRED RELOCATIONS AND/OR EXTENSIONS.

7. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO OWNER'S PROPERTY OR ANY ADJACENT PROPERTIES, INCLUDING, BUT NOT LIMITED TO FENCES, WALLS, PAVEMENT, GRASS, TREES, AND LAWN SPRINKLER AND IRRIGATION SYSTEMS AT NO COST TO THE OWNER, OR OWNER'S AGENTS.

8. THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL SURPLUS MATERIALS, SPOILS, AND DEBRIS OFF SITE. THIS WORK IS INCIDENTAL TO THE CONTRACT.

9. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.

10. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.

11. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ARCHITECT/ENGINEER.

12. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER, ARCHITECT AND ENGINEER. ALLIANCE GEOTECHNICAL GROUP WILL PROVIDE TESTING FOR CONSTRUCTION.

13. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUMS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. CONTRACTOR SHALL IMMEDIATELY REPORT DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

14. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.

15. REFER TO EXISTING CONDITIONS AND DEMOLITION PLAN SHEETS FOR ALL TREE REMOVAL REQUIREMENTS.

16. CONTRACTOR ADJUSTMENTS TO SPOT GRADES TO MAINTAIN POSITIVE DRAINAGE IS ALLOWED WITH THE PRIOR APPROVAL OF THE ARCHITECT / ENGINEER.

17. THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES UNLESS NOTED OTHERWISE.

18. CONTRACTOR STAGING AREA TO BE AGREED UPON BY OWNER PRIOR TO CONSTRUCTION.

19. ALL EXISTING CONCRETE PAVING, SIDEWALK, STRUCTURES AND CURBS NOTED FOR DEMOLITION SHALL BE REMOVED IN THEIR ENTIRETY AND DISPOSED OF BY THE CONTRACTOR, OFFSITE UNLESS OTHERWISE DIRECTED BY THE OWNER, ARCHITECT / ENGINEER.

20. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE AS-BUILT PLANS IDENTIFYING ALL DEVIATIONS OR VARIATIONS OF ORIGINAL PLANS.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. THIS OR ANY OTHER MEANS OF CONTROL SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING MEASURES TO MINIMIZE DAMAGE TO TREE LIMBS, TREE TRUNKS, AND TREE ROOTS ALONG THE ROUTE OF THE PROJECT. ALL SUCH MEASURES SHALL BE CONSIDERED AS INCIDENTAL WORK INCLUDED IN THE CONTRACT UNIT PRICE BID FOR APPLICABLE SITE WORK OR STRUCTURE INSTALLATION. WHEN CONSTRUCTION PASSES BY OR CLOSE TO TREES, THE CONTRACTOR SHALL ERECT TEMPORARY CONSTRUCTION FENCE TO LIMIT ACTIVITY OUTSIDE OF THE EASEMENT IN THE TREE AREAS. NO PARKING WILL BE ALLOWED UNDER DRIP LINE OR MINIMUM OF TEN (10) FEET OF ANY TREE TO REMAIN. CONTRACTOR SHALL INSPECT EACH WORK SITE IN ADVANCE AND ARRANGE TO HAVE ANY TREE LIMBS PRUNED THAT MIGHT BE DAMAGED BY EQUIPMENT OPERATIONS. THE OWNER SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY TREE TRIMMING WORK. NOTHING SHALL BE STORED OVER THE TREE ROOT SYSTEM WITHIN THE DRIP LINE AREA OF ANY TREE. THE CONTRACTOR SHALL EMPLOY A QUALIFIED LANDSCAPER FOR ALL THE WORK REQUIRED FOR TREE CARE TO ENSURE UTILIZATION OF THE BEST AGRICULTURAL PRACTICES AND PROCEDURES.

GRADING NOTES

- ALL PUBLIC WORKS CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL DESIGN AND TECHNICAL CONSTRUCTION STANDARDS.
 - CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES BEFORE CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
 - UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE AS-BUILT PLANS IDENTIFYING ALL DEVIATIONS OR VARIATIONS OF ORIGINAL PLANS.
 - ALL SPOT ELEVATIONS ARE PROPOSED PAVEMENT, OR TOP OF GRADE ELEVATIONS UNLESS OTHERWISE NOTED. TO = TOP OF CURB, EX = EXIST. GRADE, FF = FINISH FLOOR, ME = MATCH EXISTING, TD = TOP OF DRAIN, TW = TOP OF WALL, BW = BOTTOM OF WALL, TS = TOP OF STAIRS
 - THE CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES WHICH ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION.
 - REFERENCE GEOTECH REPORT AND SPECIFICATIONS PREPARED BY FALCON ENGINEERING, DATED OCTOBER 27, 2021 FOR BUILDING SLAB, POOL, PAVEMENT PREPARATION, COMPACTION, AND ALL EARTHWORK OPERATIONS.
 - THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE GEOTECHNICAL ENGINEER'S SPECIFICATIONS. ANY FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
 - ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH. THE AREAS SHALL THEN BE SEEDED, IRRIGATED, AND STABILIZED AS INDICATED IN THE PLANS AND SPECIFICATIONS, AND MAINTAINED UNTIL SOIL IS STABILIZED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE CONSTRUCTION SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE STABILIZED AND MULCHED AS SHOWN ON THE LANDSCAPE, GRADING, AND EROSION CONTROL PLANS.
- ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE INDICATED.

ACCESSIBILITY NOTES

- ALL ACCESSIBLE SPACES AND ACCESSIBLE ROUTES SHALL COMPLY WITH THE CITY OF GREENVILLE AND NORTH CAROLINA ACCESSIBILITY STANDARDS AND CITY REQUIREMENTS.
- PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.
- EACH ACCESSIBLE PARKING SPACE SHALL BE DESIGNATED AS RESERVED BY A VERTICALLY MOUNTED OR SUSPENDED SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. VAN ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY.
- (A) CHARACTERS AND SYMBOLS ON SUCH SIGNS SHALL BE LOCATED 60" (1525 MM) MINIMUM ABOVE THE GROUND, FLOOR, OR PAVING SURFACE SO THEY CANNOT BE OBTURED BY A VEHICLE PARKED IN THE SPACE.
- (B) SIGNS LOCATED WITHIN AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE LATEST STANDARDS.
- (C) CHARACTERS AND SYMBOLS ON OVERHEAD SIGNS SHALL COMPLY WITH THE LATEST STANDARDS.
- SLOPES OF CURB RAMPS SHALL COMPLY WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20.
- ALL ACCESSIBLE RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKING SHALL CONFORM TO ADA, LATEST EDITION.
- CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD CONSTRUCTION DETAIL AND SPECIFICATIONS.
- PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA AND SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FLARES.
- CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH, CONNECTION.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKING FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SPACES, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINTED AND PAVEMENT MARKINGS SHALL ADHERE TO CITY AND OWNER STANDARDS.
- BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS WALKS, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL, IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 20 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.
- CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDER WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.

RECORD DRAWING NOTES:

- RECORD DRAWING CERTIFICATIONS REQUIRED FOR THIS PROJECT INCLUDES, BUT MAY NOT BE LIMITED TO WATER AND SEWER MAINS, STORM DRAINAGE PIPING, STORMWATER CONTROL MEASURES AND INDIVIDUAL WATER AND SEWER SERVICE LOCATIONS. ALL RECORD DRAWING DATA SHALL BE PROVIDED BY THE CONTRACTOR PRIOR THE ISSUANCE OF CERTIFICATE OF OCCUPANCY PER CITY OF GREENVILLE, NCDOT, AND NCDCEQ REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ALL SURVEY DATA REQUIRED BY THE CITY OF GREENVILLE, NCDOT, NCFMIP AND NCDCEQ IN ORDER TO PREPARE THE RECORD DRAWING CERTIFICATIONS. RECORD DRAWINGS SHALL BE PREPARED AND CERTIFIED BY A NORTH CAROLINA LICENSED SURVEYOR IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY ITEMS INCLUDING ANY TESTING, REPORTS OR CERTIFICATION DOCUMENTS REQUIRED BY GOVERNING JURISDICTIONS TO PROPERLY CLOSE OUT THE PROJECT BEFORE IT CAN BE DEEMED COMPLETE.

ABBREVIATIONS

*NOT ALL ABBREVIATIONS MAY BE USED FOR THIS PROJECT.

CO - CLEAN OUT	DIP- DUCTILE IRON PIPE
DI - DROP INLET	STRM - STORM
YI - YARD INLET	MH - MANHOLE
EX - EXISTING	SD - STORM DRAIN
ME - MATCH EXISTING	RD - ROOF DRAIN
FE5 - FLARED-END SECTION	TC - TOP OF CONCRETE
LOD - LIMITS OF DISTURBANCE	CI - CAST IRON PIPE
PVC - POLYVINYL CHLORIDE	TW - TOP OF WALL
RCP - REINFORCED CONCRETE PIPE	BW - BOTTOM OF WALL
TYP. - TYPICAL	PIV - POST INDICATOR VALVE

STORM DRAINAGE NOTES

- ALL STORM SEWER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
- THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
- THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING STORM SEWER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY STORM SEWER, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.
- FLOW LINE, TOP-OF-CURB, RIM, THROAT, AND GRATE ELEVATIONS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE GRADING PLAN AND FIELD CONDITIONS PRIOR TO THEIR INSTALLATION.
- ALL PUBLIC STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
- ALL PRIVATE STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
- ALL PVC TO RCP CONNECTIONS AND ALL STORM PIPE CONNECTIONS ENTERING STRUCTURES OR OTHER STORM PIPES SHALL HAVE A CONCRETE COLLAR AND BE GROUTED TO ASSURE THE CONNECTION IS WATERTIGHT.
- ALL PUBLIC STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. PRIVATE STORM SEWER LINES 18-INCHES AND GREATER SHALL BE CLASS III RCP OR OTHER APPROVED MATERIAL.
- WHERE COVER EXCEEDS 20-FEET OR IS LESS THAN 2-FEET, CLASS IV RCP SHALL BE USED.
- IF CONTRACTOR PROPOSES TO USE HDPE OR PVC IN LIEU OF RCP FOR PRIVATE STORM SEWER, CONTRACTOR SHALL SUBMIT TECHNICAL DATA TO THE OWNER, ENGINEER AND CITY ENGINEER/INSPECTOR FOR APPROVAL PRIOR TO ORDERING THE MATERIAL. ANY PROPOSED HDPE AND PVC SHALL BE WATERTIGHT.
- EMBEDMENT FOR ALL STORM SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF NORTH CAROLINA, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.
- THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.
- RIM ELEVATIONS FOR STORM CATCH BASINS ARE MEASURED TO THE GUTTER FLOW LINE.
- THE LOCATIONS OF STORM SEWER STRUCTURES SHOWN ON THESE PLANS (AND PROVIDED IN ASSOCIATED CAD FILES) ARE APPROXIMATE. THE CONTRACTOR SHALL STAKE ALL CURB INLET STRUCTURES SUCH THAT INLET TOPS ALIGN HORIZONTALLY WITH PROPOSED CURB LOCATIONS (PER DETAIL, IF PROVIDED). WHERE PROPOSED STORM SEWERS TIE TO EXISTING STRUCTURES, PIPES, ETC., THE CONTRACTOR SHALL FIELD ADJUST PROPOSED STORM SEWERS TO MATCH THE LOCATIONS OF THESE EXISTING FEATURES.

EROSION CONTROL NOTES

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES (NCDENR) AND NCDCEQ EROSION AND SEDIMENT CONTROL REGULATIONS.
- ALL CONSTRUCTION SHALL COMPLY WITH NCDCEQ STANDARDS AND SPECIFICATIONS.
- ALL CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
- ALL EROSION CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE NORTH CAROLINA SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE. STABILIZE DISTURBED AREAS WITH TEMPORARY VEGETATION. DENUDED AREAS MUST BE SEEDED WITHIN FOURTEEN (14) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
- INSTALL ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT RUNOFF.
- WHERE POSSIBLE, EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE.
- ALL EXCAVATED SOILS NOT NEEDED ON SITE FOR BACKFILL OPERATIONS SHALL BE TAKEN OFF SITE AND LEGALLY DISPOSED OF. NO SOIL CAN BE REMOVED FROM SITE WITHOUT EHS APPROVAL. REFER TO THE PROJECT'S SITE SOIL MANAGEMENT PROGRAM.
- PROVIDE EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SOIL FROM GETTING OFF SITE OR INTO EXISTING DRAINAGE STRUCTURES. SOIL PILES AND CONTRACTOR STAGING AND MATERIALS LAY DOWN AREAS SHOULD BE A MINIMUM OF 50' AWAY FROM ANY STORM DRAIN OR WATERCOURSE.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO THE NCDCEQ FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- CONTRACTOR TO ENSURE THAT SEDIMENT LADEN RUNOFF DOES NOT LEAVE SITE LIMITS OR ENTER PROTECTED AREAS. ANY SEDIMENT DEPOSITED BEYOND DISTURBED AREA WITHIN SITE LIMITS SHALL BE REMOVED.
- ALL EROSION CONTROL MEASURES AND DEVICES SHALL BE IN ACCORDANCE WITH STATE AND LOCAL EROSION CONTROL REGULATIONS.
- ALL DISTURBED AREAS WHERE WORK HAS CEASED SHALL BE STABILIZED WITHIN 14 DAYS UNLESS OTHERWISE NOTED.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY (7) CALENDAR DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS 1 INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
- WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
- WHEN THE CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED FOR ADDITIONAL CONTRACTOR LAYDOWN AREA. CONTRACTOR TO COORDINATE WITH ENGINEER DURING CONSTRUCTION.
- ROLLED EROSION CONTROL PRODUCTS (RECP'S) SHOULD BE USED TO AID PERMANENT VEGETATED STABILIZATION OF SLOPES 2:1 OR GREATER AND WITH MORE THAN 10' OF VERTICAL RELIEF. RECP'S SHOULD ALSO BE USED WHEN MULCH CANNOT BE ADEQUATELY TACKED AND WHERE IMMEDIATE GROUND COVER IS REQUIRED TO PREVENT EROSION DAMAGE.
- CONCRETE WASHOUT MUST BE LOCATED AT LEAST 50 FEET FROM ANY STORM DRAIN, AND THAT CONCRETE DUST/WASTE/WASTEWATER MAY NOT BE RELEASED TO THE STORM DRAIN, INCLUDING RINSING CONCRETE TRUCK CHUTES.
- ALL STOCKPILES TO REMAIN COVERED EXCEPT WHILE IN USE.
- DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET. DEWATERING DIRECTLY TO THE STORM DRAINS IS PROHIBITED.
- ALL HANDLING PROCEDURES SHALL BE IN ACCORDANCE TO NCG010000 PART II SECTION F.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NCDENR EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION. NO SEDIMENT AND EROSION CONTROL MEASURE SHALL BE REMOVED WITHOUT INSPECTOR APPROVAL.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY CONTRACTOR ONCE STABILIZATION OR A SUFFICIENT GROUND COVER HAS BEEN ESTABLISHED OR AS DIRECTED BY THE ENGINEER. NCDCEQ INSPECTOR'S FINAL APPROVAL IS REQUIRED.
- STABILIZATION MEASURES SHALL BE APPLIED TO STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

EROSION CONTROL NOTES

- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING UPON FIELD CONDITIONS.
- LIMITS OF GRADING SHOWN ON THE PLAN ARE MAXIMUM LIMITS FOR EROSION CONTROL PURPOSES ONLY. SURVEYOR TO DETERMINE ACTUAL LIMIT.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE NCDCEQ EROSION CONTROL ORDINANCE, AND IS SUBJECT TO A FINE.
- GRADING MORE THAN 1 ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE NCDCEQ EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- TEMPORARY CONSTRUCTION ENTRANCES SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREAS. TWO TO THREE INCH STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
- ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 21 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- THIS PROJECT IS LOCATED IN THE TAR/PAMLICO RIVER BASIN.

CITY OF GREENVILLE GENERAL NOTES

- CITY OR NCDOT DRIVEWAY PERMIT REQUIRED. ANY ENCRoACHMENT AGREEMENTS SHALL BE APPROVED BEFORE INSTALLATION.
- AN UNUSED DRIVEWAY MUST BE CLOSED IN ACCORDANCE WITH THE CITY OF GREENVILLE'S DRIVEWAY ORDINANCE.
- CONTRACTOR MUST NOTIFY ONE-CALL CENTER INC. (NC ONE-CALL) (811) AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION OR TRENCHING TO HAVE ALL UNDERGROUND UTILITIES LOCATED.
- ALL REQUIRED IMPROVEMENTS SHALL CONFORM TO THE CITY OF GREENVILLE MANUAL OF STANDARD DESIGNS AND DETAILS (MSDD).
- CONTRACTOR SHALL NOTIFY PUBLIC WORKS, STREET MAINTENANCE DIVISION 48 HOURS PRIOR TO MAKING CONNECTION TO EXISTING STORM DRAINS LOCATED WITHIN PUBLIC STORM DRAINAGE EASEMENTS OR RIGHT-OF-WAY.
- THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. THIS PROPERTY IS LOCATED IN ZONE "AE" AS SHOWN ON FIRM PANEL NUMBER 3720468800K, COMMUNITY NUMBER 370191, INDEX DATE 7/7/2014.
- LANE CLOSURES ON THOROUGHFARE ROADS ARE ONLY PERMITTED BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE TRAFFIC ENGINEER. IN ADDITION, THERE WILL BE NO LANE CLOSURES ON HOLIDAYS INCLUDING THE DAY BEFORE OR AFTER SAID HOLIDAY. A TRAFFIC CONTROL PLAN PREPARED IN ACCORDANCE WITH THE NCDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES IS REQUIRED FOR ALL LANE CLOSURES AND MUST BE APPROVED BY THE TRAFFIC ENGINEER.
- ANY LAND DISTURBING ACTIVITY WHICH WILL UNCOVER MORE THAN ONE (1) ACRE, OR IF ANY PORTION OF THE PROPERTY IS LOCATED IN THE FLOODWAY, SHALL OBTAIN SOIL EROSION AND SEDIMENTATION CONTROL PLAN APPROVAL OF THE CITY ENGINEER PRIOR TO INITIATION OF SUCH ACTIVITY.
- ANY LAND DISTURBING ACTIVITY THAT RESULTS IN A NET INCREASE OF IMPERVIOUS AREA AND DISTURBS GREATER OR EQUAL TO ½ ACRE FOR NON-SINGLE FAMILY RESIDENTIAL, SHALL OBTAIN APPROVAL OF A STORMWATER MANAGEMENT PLAN PRIOR TO INITIATION OF SUCH ACTIVITY.

VEGETATION NOTES

- EXISTING VEGETATION SHALL BE PROTECTED TO THE GREATEST EXTENT PRACTICABLE AND SHALL BE CREDITED TOWARDS THE REQUIREMENTS OF THE CITY OF GREENVILLE'S ZONING ORDINANCE.
- ALL CONTINUOUS STANDS OF VEGETATION SHALL BE PROTECTED AND HAVE BEEN IDENTIFIED HEREIN.
- ALL INFRASTRUCTURE REQUIRING ADDITIONAL VEGETATION (I.E. PARKING LOTS, BUILDINGS, ETC) HAVE BEEN REVIEWED AND PERMITTED UNDER A SEPARATE SUBMITTAL.
- ALL BUFFERS SHALL BE LEFT UNDISTURBED AND EXISTING VEGETATION SHALL COUNT TOWARDS ANY AND ALL REQUIREMENTS.

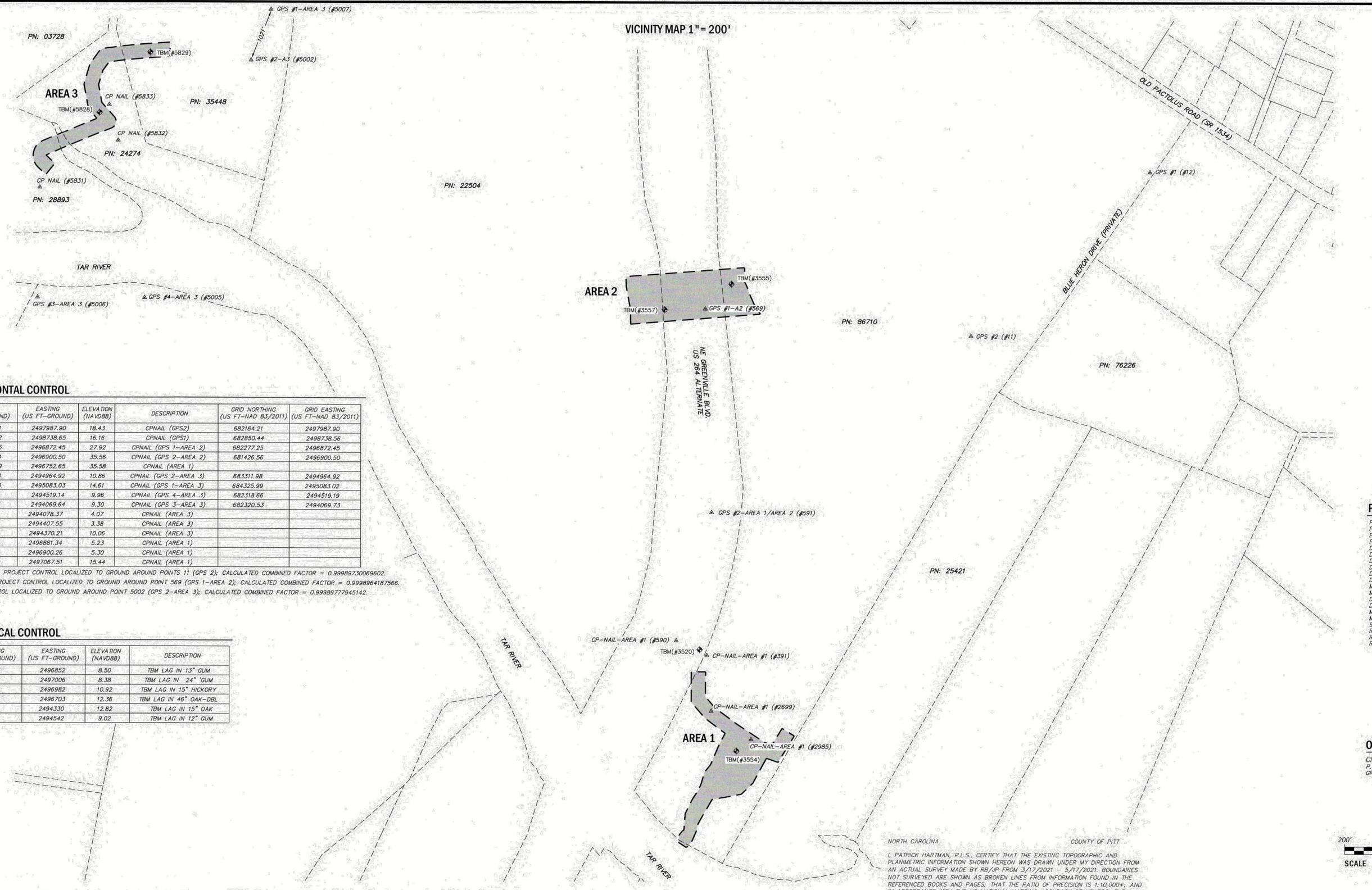
LIMITS OF DISTURBANCE NOTE:

CONTRACTOR SHALL ESTABLISH LIMITS OF DISTURBANCE AT A MINIMUM OF (FIFTY) 50'-0" INTERVALS. LIMITS OF ALIGNMENT STAKING SHALL BE VERIFIED BY ENGINEER AND/OR LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. LIMITS SHALL BE CLEARLY MARKED IN THE FIELD AND SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION.

SURVEY NOTE:
ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY RIVERS & ASSOCIATES, INC. DATED 05/17/21 LOCATED AT 107 EAST SECOND STREET GREENVILLE, NC 27688 PHONE: 252-752-4135.

KHA PROJECT 012654010		DATE 1/31/2024	SCALE AS SHOWN	DESIGNED BY MRC	DRAWN BY ASA	CHECKED BY JDK	1/31/2024
KIMLEY-HORN & ASSOCIATES, INC. 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601 PHONE: 919-677-2000 FAX: 919-677-2050 WWW.KIMLEY-HORN.COM		© 2024 KIMLEY-HORN AND ASSOCIATES, INC. 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601 PHONE: 919-677-2000 FAX: 919-677-2050 WWW.KIMLEY-HORN.COM		KIMLEY-HORN		#1-010	
WILWOOD PARK - TOWER AND TRAILS BID PACKAGE B PREPARED FOR CITY OF GREENVILLE		GREENVILLE NC		SHEET NUMBER C0.1		DATE	

VICINITY MAP 1" = 200'



SURVEY HORIZONTAL CONTROL

POINT	NORTHING (US FT-GROUND)	EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION	GRID NORTHING (US FT-NAD 83/2011)	GRID EASTING (US FT-NAD 83/2011)
11	682164.21	2497987.90	18.43	CPNAIL (GPS2)	682164.21	2497987.90
12	682850.52	2498738.65	16.16	CPNAIL (GPS1)	682850.44	2498738.56
569	682277.25	2496872.45	27.92	CPNAIL (GPS 1-AREA 2)	682277.25	2496872.45
591	681426.44	2496900.50	35.56	CPNAIL (GPS 2-AREA 2)	681426.56	2496900.50
590	680889.89	2496752.65	35.58	CPNAIL (AREA 1)		
5002	683311.98	2494964.92	10.86	CPNAIL (GPS 2-AREA 3)	683311.98	2494964.92
5007	684326.10	2495083.03	14.61	CPNAIL (GPS 1-AREA 3)	684325.99	2495083.02
5005	682318.55	2494519.14	9.96	CPNAIL (GPS 4-AREA 3)	682318.66	2494519.19
5006	682320.43	2494069.64	9.30	CPNAIL (GPS 3-AREA 3)	682320.53	2494069.73
5831	682778.99	2494078.37	4.07	CPNAIL (AREA 3)		
5832	682974.90	2494407.55	3.38	CPNAIL (AREA 3)		
5833	683125.88	2494370.21	10.06	CPNAIL (AREA 3)		
391	680828.47	2496881.34	5.23	CPNAIL (AREA 1)		
2699	680597.25	2496900.26	5.30	CPNAIL (AREA 1)		
2885	680479.72	2497067.51	15.44	CPNAIL (AREA 1)		

ORIGINAL SHELTER AREA PROJECT CONTROL LOCALIZED TO GROUND AROUND POINT 11 (GPS 2); CALCULATED COMBINED FACTOR = 0.99989730069602.
 AREA 1 AND AREA 2 PROJECT CONTROL LOCALIZED TO GROUND AROUND POINT 569 (GPS 1-AREA 2); CALCULATED COMBINED FACTOR = 0.9998964187566.
 AREA 3 PROJECT CONTROL LOCALIZED TO GROUND AROUND POINT 5002 (GPS 2-AREA 3); CALCULATED COMBINED FACTOR = 0.9998977945142.

SURVEY VERTICAL CONTROL

POINT	NORTHING (US FT-GROUND)	EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION
3520	680853	2496852	8.50	TBM LAG IN 13" GUM
3554	680431	2497006	8.38	TBM LAG IN 24" GUM
3555	682382	2496982	10.92	TBM LAG IN 15" HICKORY
3557	682273	2496703	12.36	TBM LAG IN 46" OAK-DBL
5828	683093	2494330	12.82	TBM LAG IN 15" OAK
5829	683344	2494542	9.02	TBM LAG IN 12" GUM

NOTES

- ALL DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS.
- NO POINTS SET UNLESS OTHERWISE INDICATED.
- THESE PROPERTIES ARE LOCATED WITHIN FEMA FLOODWAY AND A "ZONE AE" (AREAS DETERMINED TO BE INSIDE THE 1% ANNUAL CHANCE FLOODPLAIN), AS DETERMINED FROM FIRM MAP NUMBER 3720468800K, EFFECTIVE JULY 7, 2014. BASE FLOOD ELEVATIONS = 21.5 - 20.4 FEET +/- (NAVD88)
- ELEVATIONS AND CONTOURS SHOWN ARE BASED ON NAVD88 DATUM. VERTICAL CONTROL ESTABLISHED FROM MULTIPLE NCGS RTN OBSERVATIONS (CLASS C). CONTOURS BELOW THE WATER SURFACE, IN RIPRAP AREA, AND LOW AREAS ALONG THE TAR RIVER (DUE TO INCONSISTENT TERRAIN FEATURES) MAY EXCEED THE 1/2" ALLOWABLE ERROR.
- THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE COMMITMENT REPORT. RIVERS AND ASSOCIATES DOES NOT CLAIM THAT ALL MATTERS OF RECORD WHICH MAY OR MAY NOT AFFECT THIS PROPERTY ARE SHOWN HEREON.
- PROPERTY SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS OF WAY, RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD.
- UTILITIES: UNDERGROUND UTILITIES PLOTTED FROM PRIOR SURVEYS AND MAPS PROVIDED BY OTHERS AS NOTED. ACTUAL LOCATIONS MAY VARY. OTHER UTILITIES MAY EXIST. SURVEYOR CANNOT PROVIDE ACCURACY OF UNDERGROUND UTILITIES. CONTRACTOR SHOULD CONTACT NCB11 AT 1-800-832-4949 TO HAVE UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING. NCB11 TICKETS: NO TICKETS WERE REQUESTED.
- UTILITIES: THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN ARE COMPRISED OF ALL SUCH UTILITIES IN THE AREA OF SURVEY EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES HEREBY CERTIFY THAT ALL UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY UNCOVERED AND LOCATED ANY UNDERGROUND UTILITIES.
- PIPE INVERTS SHOWN HEREON WERE OBTAINED WITHOUT CONFINED SPACE ENTRY BY THE MOST PRACTICAL METHODS AVAILABLE TO THE SURVEYOR.
- WETLANDS WERE DELINEATED BY KIMLEY HORN'S ENVIRONMENTAL SPECIALIST ON 4/16/2021. RIPARIAN BUFFER LOCATION IS SURVEYOR'S INTERPRETATION OF INFORMATION PROVIDED BY THE CITY OF GREENVILLE. THE LOCATION MAY CHANGE BASED ON ENVIRONMENTAL SPECIALIST'S SITE DETERMINATION.

SHEET INDEX

#	DESCRIPTION
1	COVER/NOTES/SURVEY VICINITY LOCATION
2	AREA 2 - TOPOGRAPHIC SURVEY/SPOT ELEVATIONS
3	AREA 1 - TOPOGRAPHIC SURVEY/SPOT ELEVATIONS
4	AREA 3 - TOPOGRAPHIC SURVEY/SPOT ELEVATIONS

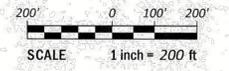
NORTH CAROLINA COUNTY OF PITT
 I, PATRICK HARTMAN, P.L.S., CERTIFY THAT THE EXISTING TOPOGRAPHIC AND PLANIMETRIC INFORMATION SHOWN HEREON WAS DRAWN UNDER MY DIRECTION FROM AN ACTUAL SURVEY MADE BY RB/JP FROM 3/17/2021 - 5/17/2021. BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES FROM INFORMATION FOUND IN THE REFERENCED BOOKS AND PAGES; THAT THE RATIO OF PRECISION IS 1:10,000+; AND IN ACCORDANCE WITH THE US NATIONAL MAPPING ACCURACY STANDARDS, THE MAXIMUM VERTICAL ERROR IS NOT GREATER THAN ONE HALF THE CONTOUR INTERVAL EXCEPT AS NOTED (SEE NOTE 4); AND HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED AT THE SITE BY NCGS RTN SOLUTION.
 1) CLASS OF SURVEY: CLASS A (HORZ.) CLASS C (VERT.)
 2) POSITIONAL ACCURACY: 2 CM(HORZ.)
 3) TYPE OF GPS FIELD PROCEDURE: NCGS RTN
 4) DATE OF SURVEY WORK: 3/17/2021-05/17/2021
 5) DATUM/EPOCH: NAD83/2011
 6) PUBLISHED CONTROL/FIXED CONTROL: NCGS RTN OR AS NOTED
 7) GEOID MODEL: 2012B
 8) COMBINED GRID FACTOR: AS NOTED
 9) UNITS: US SURVEY FEET
 WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 17TH DAY OF MAY, 2021.
 PROFESSIONAL LAND SURVEYOR LICENSE NO. L-4262

REFERENCES:

- P.N. 35488
- P.N. 24274
- P.N. 22504
- P.N. 86710
- D.B. 3663 PG. 527
- D.B. 4049 PG. 261
- D.B. Q41 PG. 206
- D.B. Z39 PG. 161
- D.B. W39 PG. 460
- D.B. 340 PG. 337
- M.B. 22 PG. 25
- M.B. 24 PG. 125
- D.B. M 43 PG. 384
- D.B. 696 PG. 437
- M.B. 60 PG. 174
- M.B. 37 PG. 5
- STATE HIGHWAY PLAN 6.8017568
- RIVERS DRAWING W-1520
- RIVERS DRAWING W-2682
- RIVERS DRAWING W-2731

OWNER

CITY OF GREENVILLE
 P.O. BOX 7207
 GREENVILLE, NC 27804



REVISIONS: -

NC License: F-0334
Rivers
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**TOPOGRAPHIC SURVEY FOR
 KIMLEY-HORN & CITY OF GREENVILLE
 OF
 A PORTION OF THE FUTURE
 WILDWOOD PARK
 CITY OF GREENVILLE, PACTOLUS TOWNSHIP, PITT COUNTY, NC**

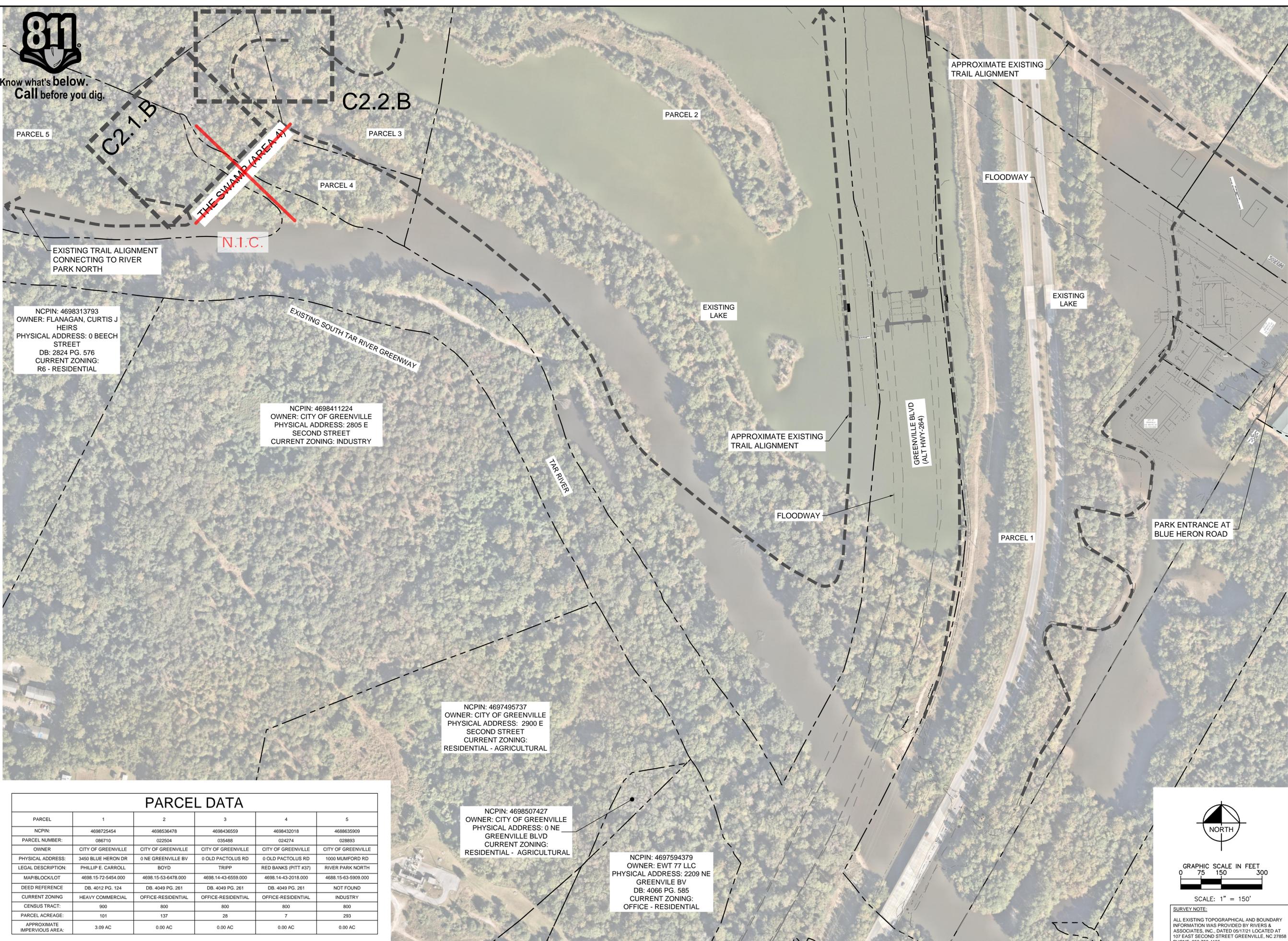
SURVEY RB/JP DRAFT PH/MS	SCALE 1" = 200'	DRAWING NO. W-3927	PROJECT NO. 2021019	SHEET 1 OF 4
DESIGN	CHECK PMH			

DATE 5/17/21

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Know what's below.
Call before you dig.



PARCEL 5
C2.1.B
EXISTING TRAIL ALIGNMENT CONNECTING TO RIVER PARK NORTH

NCPIN: 4698313793
OWNER: FLANAGAN, CURTIS J HEIRS
PHYSICAL ADDRESS: 0 BEECH STREET
DB: 2824 PG. 576
CURRENT ZONING: R6 - RESIDENTIAL

NCPIN: 4698411224
OWNER: CITY OF GREENVILLE
PHYSICAL ADDRESS: 2805 E SECOND STREET
CURRENT ZONING: INDUSTRY

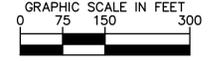
NCPIN: 4697495737
OWNER: CITY OF GREENVILLE
PHYSICAL ADDRESS: 2900 E SECOND STREET
CURRENT ZONING: RESIDENTIAL - AGRICULTURAL

NCPIN: 4698507427
OWNER: CITY OF GREENVILLE
PHYSICAL ADDRESS: 0 NE GREENVILLE BLVD
CURRENT ZONING: RESIDENTIAL - AGRICULTURAL

NCPIN: 4697594379
OWNER: EWT 77 LLC
PHYSICAL ADDRESS: 2209 NE GREENVILLE BV
DB: 4066 PG. 585
CURRENT ZONING: OFFICE - RESIDENTIAL

PARCEL DATA

PARCEL	1	2	3	4	5
NCPIN:	4698725454	4698536478	4698436559	4698432018	4688635909
PARCEL NUMBER:	086710	022504	035488	024274	028893
OWNER:	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE
PHYSICAL ADDRESS:	3450 BLUE HERON DR	0 NE GREENVILLE BV	0 OLD PACTOLUS RD	0 OLD PACTOLUS RD	1000 MUMFORD RD
LEGAL DESCRIPTION:	PHILLIP E. CARROLL	BOYD	TRIPP	RED BANKS (PITT #37)	RIVER PARK NORTH
MAP/BLOCK/LOT	4698.15-72-5454.000	4698.15-53-6478.000	4698.14-43-6559.000	4698.14-43-2018.000	4688.15-63-5909.000
DEED REFERENCE	DB. 4012 PG. 124	DB. 4049 PG. 261	DB. 4049 PG. 261	DB. 4049 PG. 261	NOT FOUND
CURRENT ZONING	HEAVY COMMERCIAL	OFFICE-RESIDENTIAL	OFFICE-RESIDENTIAL	OFFICE-RESIDENTIAL	INDUSTRY
CENSUS TRACT:	900	800	800	800	800
PARCEL ACREAGE:	101	137	28	7	293
APPROXIMATE IMPERVIOUS AREA:	3.09 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC



SCALE: 1" = 150'

SURVEY NOTE:
ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY RIVERS & ASSOCIATES, INC., DATED 05/17/21 LOCATED AT 107 EAST SECOND STREET GREENVILLE, NC 27688 PHONE: 252-752-4135.

No.	REVISIONS	DATE
8	IFC PACKAGE B1	05/17/24 ADC
7	ISSUED FOR CONSTRUCTION	1/31/24 DAW
6	CITY OF GREENVILLE - TRC - 3RD SUBMITTAL	12/01/22 ASA
5	ISSUED FOR BID	8/02/22 ASA

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PHONE: 919-677-2000 FAX: 919-677-2050
WWW.KIMLEY-HORN.COM
#-0102



KHA PROJECT	012654010
DATE	1/31/2024
SCALE	AS SHOWN
DESIGNED BY	MRC
DRAWN BY	ASA
CHECKED BY	JDK

**OVERALL
DEMOLITION AND
EROSION CONTROL
PLAN**

WILWOOD PARK -
TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE

GREENVILLE
SHEET NUMBER
C2.0.B



Know what's below.
Call before you dig.

LIMITS OF DISTURBANCE NOTE:
CONTRACTOR SHALL ESTABLISH LIMITS OF DISTURBANCE AT A MINIMUM OF (FIFTY) 50'-0" INTERVALS. LIMITS OF ALIGNMENT STAKINGS SHALL BE VERIFIED BY ENGINEER AND/OR LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. LIMITS SHALL BE CLEARLY MARKED IN THE FIELD AND SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION.

PHASE 1 CONSTRUCTION SEQUENCE

- THE FOLLOWING PHASE 1 CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.
- OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM NCDEQ.
 - SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH NCDEQ EROSION CONTROL INSPECTOR TO DISCUSS EROSION CONTROL MEASURES.
 - CONTRACTOR TO INSTALL SILT FENCE, TREE PROTECTION FENCE, AND OTHER EROSION CONTROL MEASURES AS SHOWN ON PLANS. CONTRACTOR TO CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
 - INSTALL TEMPORARY CONSTRUCTION ACCESS ROADS AND TURN AROUND AREAS AND TEMPORARY STREAM CROSSING TO PROVIDE ACCESS TO CONSTRUCTION SITE AREAS. CONTRACTOR TO CLEAR ONLY AS NECESSARY TO INSTALL THESE MEASURES.
 - CONTRACTOR TO ACCESS BRIDGE AND CULVERT LOCATIONS USING PROPOSED PATH FOOTPRINT. USE MUD MATS IN WETLAND AREAS AND OTHER LOW AREAS TO LIMIT IMPACTS.
 - CALL FOR ON-SITE INSPECTION BY INSPECTOR ONCE ALL EROSION CONTROL MEASURES ARE INSTALLED.
 - UPON APPROVAL AND RECEIPT OF USACE NATIONWIDE PERMIT #14 AND NCDWR GENERAL WATER QUALITY CERTIFICATION #4135, CLEARING AND DEMOLITION MAY BEGIN. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY. EROSION CONTROL MEASURES SHALL BE RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 50% OF DESIGN DEPTH.
 - INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 1/2" OR GREATER OR EVERY SEVEN (7) CALENDAR DAYS.
 - ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPARTMENT OF AGRICULTURE, AND CITY OF GREENVILLE EROSION CONTROL ORDINANCE.

NOTES

- REFER TO THIS SHEET AND GENERAL NOTES SHEET C0.1 FOR GENERAL EROSION CONTROL NOTES AND MAINTENANCE AND SEEDBED PREPARATION AND SEEDING SCHEDULE.
- THIS PROJECT HAS COMBINED INFORMATION FROM PREVIOUS PHASING PLANS TO PROVIDE CONTEXT. REFER TO PLANS BY RIVERS & ASSOCIATES WITH THE ADVENTURE PARK PROJECT. ALL INFORMATION WHICH DOES NOT EXIST IN THE FIELD TODAY, BUT HAS BEEN DEPICTED AS 'EXISTING CONDITIONS' HEREIN SHALL BE BROUGHT TO THE ENGINEER OR LANDSCAPE ARCHITECT'S ATTENTION PRIOR TO CONSTRUCTION.
- SEE ENVIRONMENTAL PERMITS PACKAGE FOR EXTENTS OF ALL ENVIRONMENTAL IMPACTS AND REPORTS. REPORT INCLUDES OPEN WATER, WETLAND, AND BUFFER IMPACTS, TEMPORARY AND PERMANENT.

LEGEND

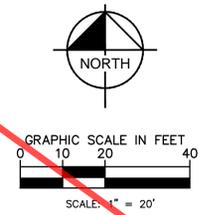
	CONTOURS		R	RADIUS
	DEPRESSED CONTOUR		A	ARC LENGTH
	BOUNDARY LINE		B	CHORD BEARING
	RIGHT OF WAY (R/W)		C	CHORD LENGTH
	STORM DRAINAGE		NPF 0	NO POINT FOUND
	GS PARCEL LINE		EIP 0	EXISTING IRON PIPE
	TOE OF BANK (DITCH)		EIR 0	EXISTING IRON REBAR
	TOP OF BANK (DITCH)		PVC	POLY-VINYL CHLORIDE
	CENTERLINE OF DITCH		PVCT	PVC TRUSS PIPE
	OVERHEAD ELECTRIC LINE		DI	DRAINAGE INLET
	EASEMENT LINE		ORN	ORNAMENTAL TREE
	WATER LINE (WL)		CP	CONCRETE PIPE
	SANITARY SEWER LINE (SS)		P.N.	PARCEL NUMBER
	GAS LINE		M.B.	MAP BOOK
	UNDERGROUND COMMUNICATION		D.B.	DEED BOOK
	WOODS LINE		PG.	PAGE
	BUILDING		EL.	ELEVATION
	JOINT ROADWAY EASEMENT		INV.	INVERT
	SANITARY SEWER EASEMENT		TYP.	TYPICAL
	DRAINAGE EASEMENT		CONC.	CONCRETE
	UTILITY EASEMENT		+50.00 CP	CRUSHED ROCK
	CONCRETE		+50.00 BC	BACK OF CURB
	ASPHALT			
	RIPRAP			

DEMOLITION AND EROSION CONTROL LEGEND

	PROPERTY LINE
	LIMITS OF DISTURBANCE
	DEMOLISH SITE ITEM
	SILT FENCE
	TREE PROTECTION FENCE
	DEMOLISH SITE ITEM/TREE TO BE REMOVED
	CONCRETE WASHOUT STATION
	NATURAL TRAIL TO BE REMOVED
	PERMANENT WETLAND DISTURBANCE
	TEMPORARY WETLAND DISTURBANCE
	TEMPORARY/PERMANENT OPEN WATER DISTURBANCE (SEE NOTE #3)
	SPOIL PILE TO BE REMOVED
	TEMPORARY HEAVY DUTY GRAVEL CONSTRUCTION ACCESS
	20' FIRE ACCESS DRIVE

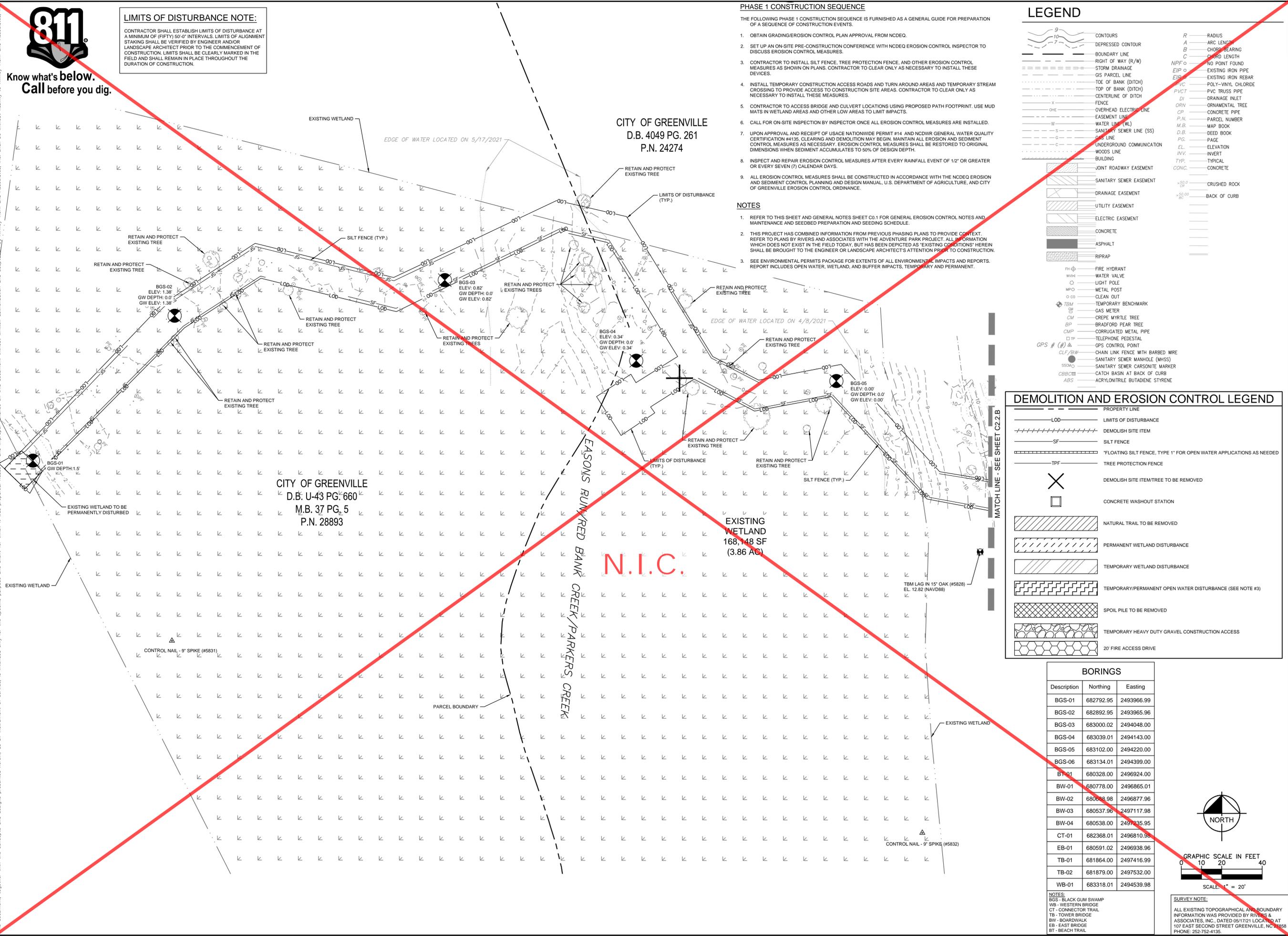
BORINGS

Description	Northing	Easting
BGS-01	682792.95	2493966.99
BGS-02	682892.95	2493965.96
BGS-03	683000.02	2494048.00
BGS-04	683039.01	2494143.00
BGS-05	683102.00	2494220.00
BGS-06	683134.01	2494399.00
BT-01	680328.00	2496924.00
BW-01	680778.00	2496865.01
BW-02	680688.98	2496877.96
BW-03	680537.96	2497117.98
BW-04	680538.00	2497235.95
CT-01	682368.01	2496810.98
EB-01	680591.02	2496938.96
TB-01	681864.00	2497416.99
TB-02	681879.00	2497532.00
WB-01	683318.01	2494539.98



NOTES:
 BGS - BLACK GUM SWAMP
 WB - WESTERN BRIDGE
 CT - CONNECTOR TRAIL
 TB - TOWER BRIDGE
 BW - BOARDWALK
 EB - EAST BRIDGE
 BT - BEACH TRAIL

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 WWW.KIMLEY-HORN.COM #1-0102

DEMOLITION AND PH 1 EROSION CONTROL PLAN - THE SWAMP

WILDWOOD PARK - TOWER AND TRAILS BID PACKAGE B PREPARED FOR CITY OF GREENVILLE

GREENVILLE

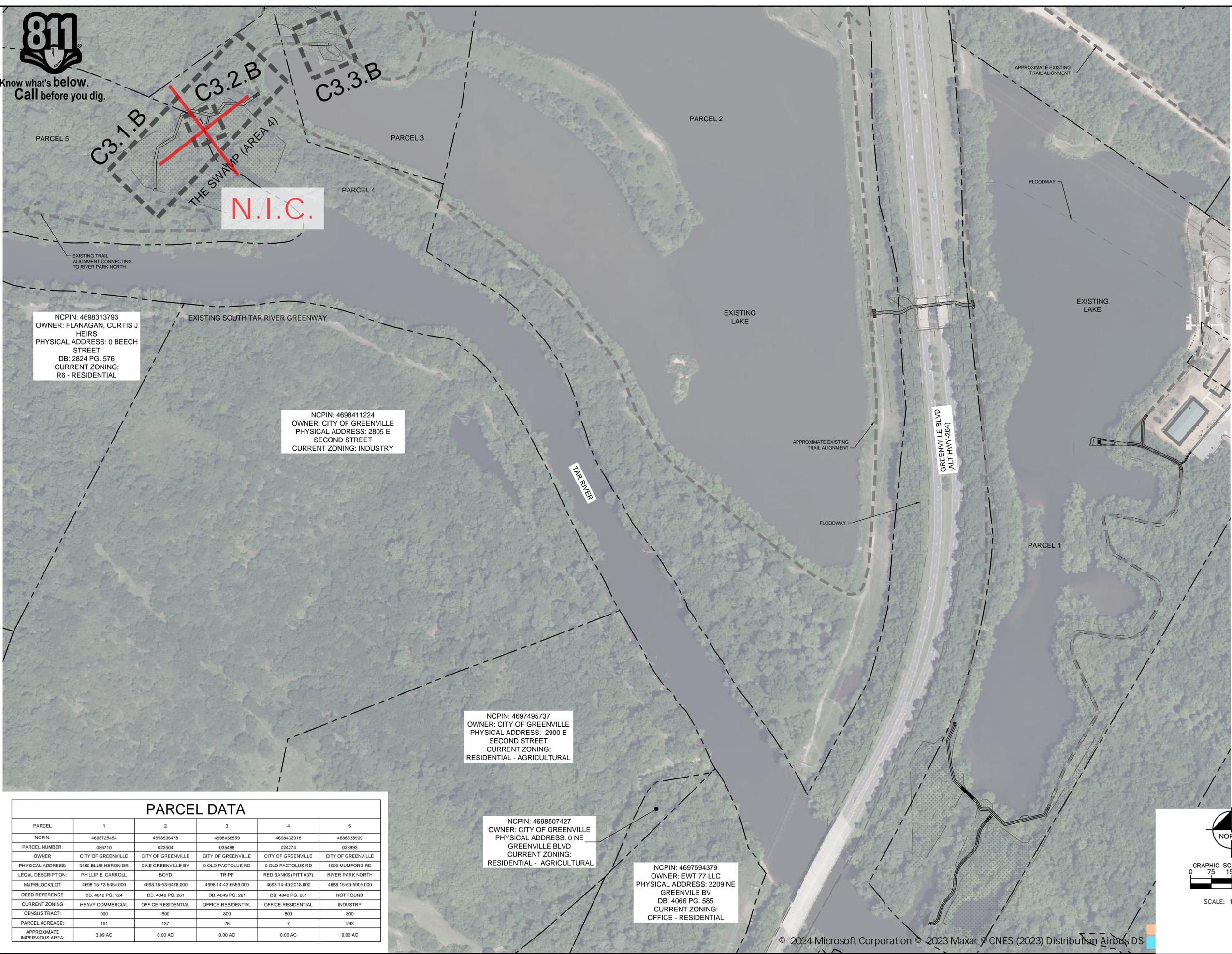
C2.1.B

PROJECT NO.	012654010
DATE	1/31/2024
SCALE	AS SHOWN
DESIGNED BY	MRC
DRAWN BY	ASA
CHECKED BY	JDK
DATE	1/31/2024
ISSUED FOR CONSTRUCTION	1/31/24
ISSUED FOR BID	12/01/22
ISSUED FOR PERMITS	8/02/22
ISSUED FOR ASA	ASA
ISSUED FOR DAW	DAW
ISSUED FOR ADC	ADC
ISSUED FOR 8 IFC PACKAGE B1	05/17/24

Plotted By: Cullinon, Alex. Sheet: SHEL:WILDWOOD PARK - OBSERVATION TOWER AND TRAILS - BID PACKAGE B - LAYOUT: C3.0.B OVERALL SITE PLAN. May 15, 2024. 03:30:23pm. \\kimley-horn.com\CL_RALI\GAL\LEVA\012654010_Wildwood_Park_Walkways_Tower_Planning_Phase\P10_CAD_Files\PlanSheets\Bid_Package_B\B1\C3.0_OVERALL_SITE_PLAN.dwg. This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



Know what's below.
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NCPIN: 4698313793
 OWNER: FLANAGAN, CURTIS J HEIRS
 PHYSICAL ADDRESS: 0 BEECH STREET
 DB: 2824 PG. 576
 CURRENT ZONING: R6 - RESIDENTIAL

NCPIN: 4698411224
 OWNER: CITY OF GREENVILLE
 PHYSICAL ADDRESS: 2805 E SECOND STREET
 CURRENT ZONING: INDUSTRY

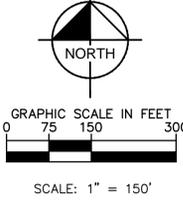
NCPIN: 4697495737
 OWNER: CITY OF GREENVILLE
 PHYSICAL ADDRESS: 2900 E SECOND STREET
 CURRENT ZONING: RESIDENTIAL - AGRICULTURAL

NCPIN: 4698507427
 OWNER: CITY OF GREENVILLE
 PHYSICAL ADDRESS: 0 NE GREENVILLE BLVD
 CURRENT ZONING: RESIDENTIAL - AGRICULTURAL

NCPIN: 4697594379
 OWNER: EWT 77 LLC
 PHYSICAL ADDRESS: 2209 NE GREENVILLE BV
 DB: 4066 PG. 585
 CURRENT ZONING: OFFICE - RESIDENTIAL

PARCEL DATA

PARCEL	1	2	3	4	5
NCPIN:	4698725454	4698536478	4698436559	4698432018	4688635909
PARCEL NUMBER:	086710	022504	035488	024274	028893
OWNER:	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE
PHYSICAL ADDRESS:	3450 BLUE HERON DR	0 NE GREENVILLE BV	0 OLD PACTOLUS RD	0 OLD PACTOLUS RD	1000 MUMFORD RD
LEGAL DESCRIPTION:	PHILLIP E. CARROLL	BOYD	TRIPP	RED BANKS (PITT #37)	RIVER PARK NORTH
MAP/BLOCK/LOT	4698.15-72-5454.000	4698.15-53-6478.000	4698.14-43-6559.000	4698.14-43-2018.000	4688.15-63-5909.000
DEED REFERENCE	DB. 4012 PG. 124	DB. 4049 PG. 261	DB. 4049 PG. 261	DB. 4049 PG. 261	NOT FOUND
CURRENT ZONING	HEAVY COMMERCIAL	OFFICE-RESIDENTIAL	OFFICE-RESIDENTIAL	OFFICE-RESIDENTIAL	INDUSTRY
CENSUS TRACT:	900	800	800	800	800
PARCEL ACREAGE:	101	137	28	7	293
APPROXIMATE IMPERVIOUS AREA:	3.09 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC



No.	REVISIONS	DATE
8	IFC PACKAGE B1	05/17/24 ADC
7	ISSUED FOR CONSTRUCTION	1/31/24 DAW
6	CITY OF GREENVILLE - TRC - 3RD SUBMITTAL	12/01/22 ASA
5	ISSUED FOR BID	8/02/22 ASA

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 WWW.KIMLEY-HORN.COM
 #F-0102



KHA PROJECT: 012654010
 DATE: 1/31/2024
 SCALE: AS SHOWN
 DESIGNED BY: MRC
 DRAWN BY: ASA
 CHECKED BY: JDK

OVERALL SITE PLAN

WILDWOOD PARK - TOWER AND TRAILS
 BID PACKAGE B
 PREPARED FOR
 CITY OF GREENVILLE

SHEET NUMBER
C3.0.B



Know what's below.
Call before you dig.

SITE LEGEND	
	EXISTING CONTOUR
	WATER EDGE LINE
	LIMITS OF DISTURBANCE
	SILT FENCE
	ADA ACCESSIBLE ROUTE
	FIELD WALK PINK FLAGGING
	WETLAND
	PRE-FABRICATED BRIDGE
	BOARDWALK
	CONCRETE SIDEWALK
	HEAVY DUTY GRAVEL PAVEMENT FOR 20' FIRE ACCESS DRIVE
	TEMPORARY HEAVY DUTY GRAVEL

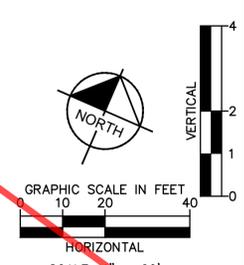
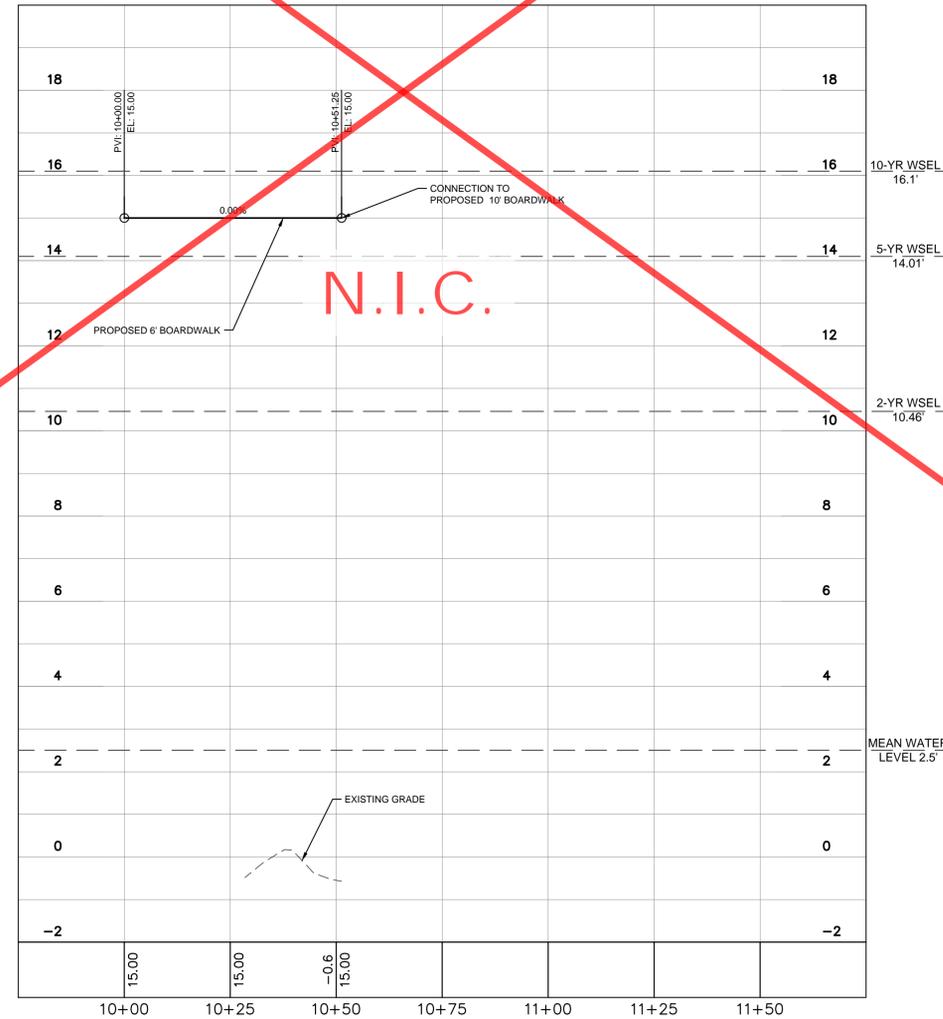
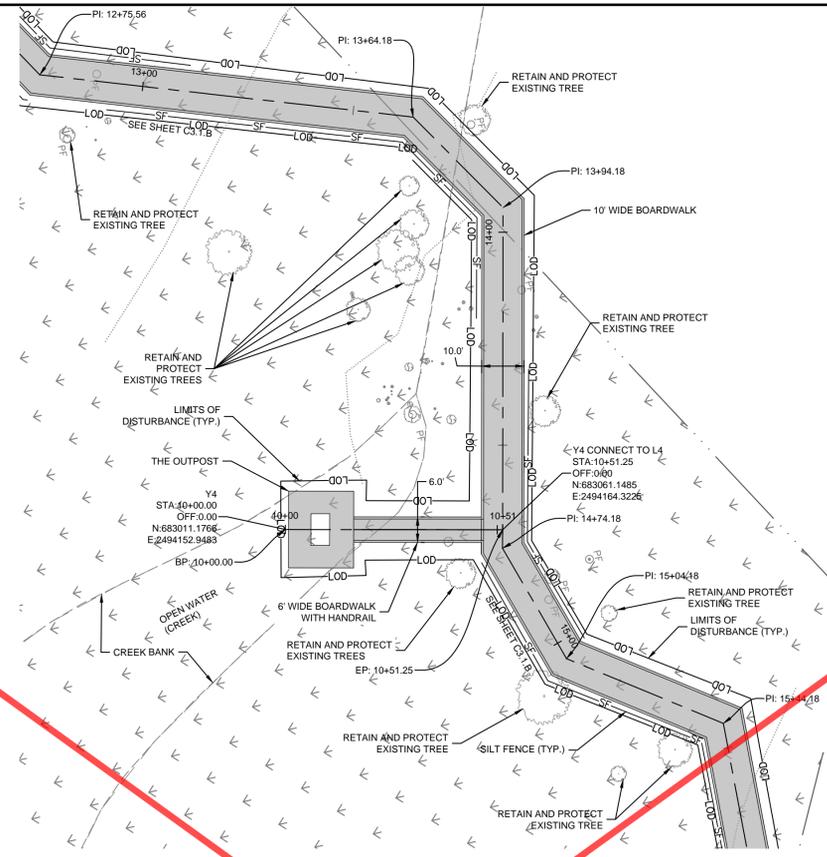
PHASE 2 CONSTRUCTION SEQUENCE

THE FOLLOWING PHASE 2 CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.

- BEGIN MASS GRADING OF PROPOSED SIDEWALKS AND TRAILS. MAINTAIN EROSION CONTROL DEVICES AS NEEDED.
- CONSTRUCT BOARDWALKS, PRE-FABRICATED BRIDGES, AND PROPOSED SIDEWALKS AS SHOWN ON PLANS.
- WHILE IMPROVEMENTS ARE BEING INSTALLED, CONTRACTOR IS TO STABILIZE ALL DISTURBED AREAS AND STREAM BANK SLOPES USING EROSION CONTROL MATTING, SEEDING, AND MULCH TO MAINTAIN A DENSE VEGETATIVE COVER.
- UPON RECEIPT OF BUILDING PERMIT, CONSTRUCT OBSERVATION TOWER AS SHOWN ON ARCHITECTURAL PLANS. CONTRACTOR TO PROVIDE CONSTRUCTION SEQUENCE FOR CRANE ACCESS AND OPERATIONS AND MATERIAL LAY-DOWN AREA.
- INSPECT AND REPAIR EROSION CONTROL MEASURE AFTER EVERY RAINFALL EVENT OF 1/2" OR GREATER OR EVERY SEVEN (7) CALENDAR DAYS.
- REMOVE TEMPORARY CONSTRUCTION ACCESSES UPON PROJECT COMPLETION.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL NCDEQ INSPECTORS FOR INSPECTIONS.
- REMOVE TEMPORARY EROSION CONTROL MEASURES AND SEED OR STABILIZE ANY RESULTING BARE AREAS.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY NCDEQ INSPECTOR.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPARTMENT OF AGRICULTURE, AND CITY OF GREENVILLE EROSION CONTROL ORDINANCE.

NOTES

- REFER TO THIS SHEET, EROSION CONTROL DETAILS SHEETS AND GENERAL NOTES SHEET FOR GENERAL EROSION CONTROL NOTES AND MAINTENANCE AND SEEDBED PREPARATION AND SEEDING SCHEDULE.



SURVEY NOTE:
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No.	REVISIONS	DATE	BY
8	IFC PACKAGE BI	05/17/24	ADC
7	ISSUED FOR CONSTRUCTION	1/31/24	DAW
6	CITY OF GREENVILLE - TRC - 3RD SUBMITTAL	12/01/22	ASA
5	ISSUED FOR BID	8/02/22	ASA

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#-0102



KHA PROJECT	012654010
DATE	1/31/2024
SCALE	AS SHOWN
DESIGNED BY	MRC
DRAWN BY	ASA
CHECKED BY	JDK

**PLAN AND PROFILE -
THE SWAMP (AREA 4)**

**WILDWOOD PARK -
TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE**

GREENVILLE NC
SHEET NUMBER
C3.2.B



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Plotted by: cadman, Inc. - Sheet Set: WILWOOD PARK - OBSERVATION TOWER AND TRAILS - BID PACKAGE B - LAYOUT C3.3.B PLAN AND PROFILE - THE SWAMP (AREA 4) - MAY 15, 2024 - 03:31:02pm - www.kimley-horn.com - 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601 - PHONE: 919-677-2000 FAX: 919-677-2050 - WWW.KIMLEY-HORN.COM - # - 0102

SITE LEGEND	
	EXISTING CONTOUR
	WATER EDGE LINE
	LOD
	LIMITS OF DISTURBANCE
	SF
	SILT FENCE
	ADA ACCESSIBLE ROUTE
	FIELD WALK PINK FLAGGING
	WETLAND
	PRE-FABRICATED BRIDGE
	BOARDWALK
	CONCRETE SIDEWALK
	HEAVY DUTY GRAVEL PAVEMENT FOR 20' FIRE ACCESS DRIVE
	TEMPORARY HEAVY DUTY GRAVEL

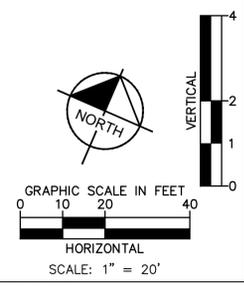
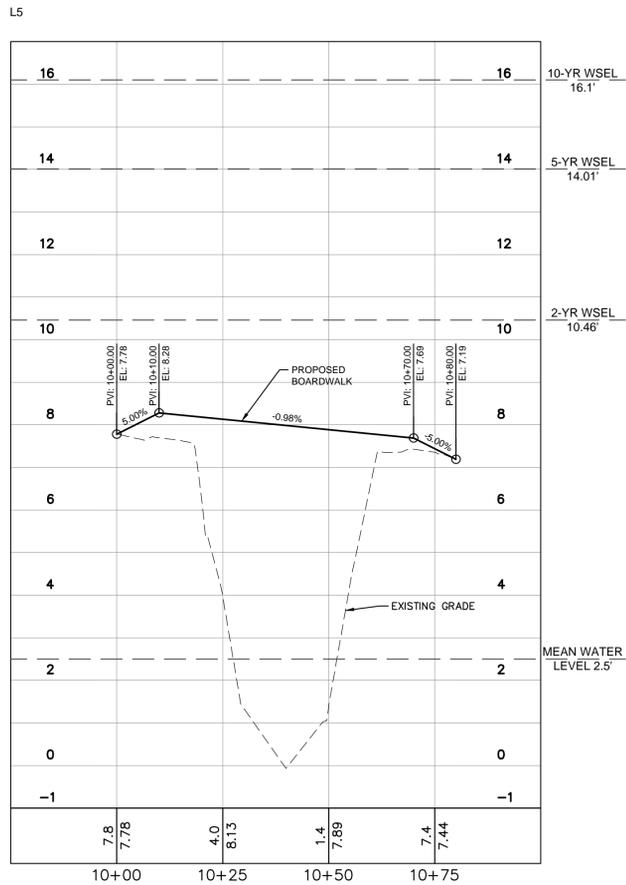
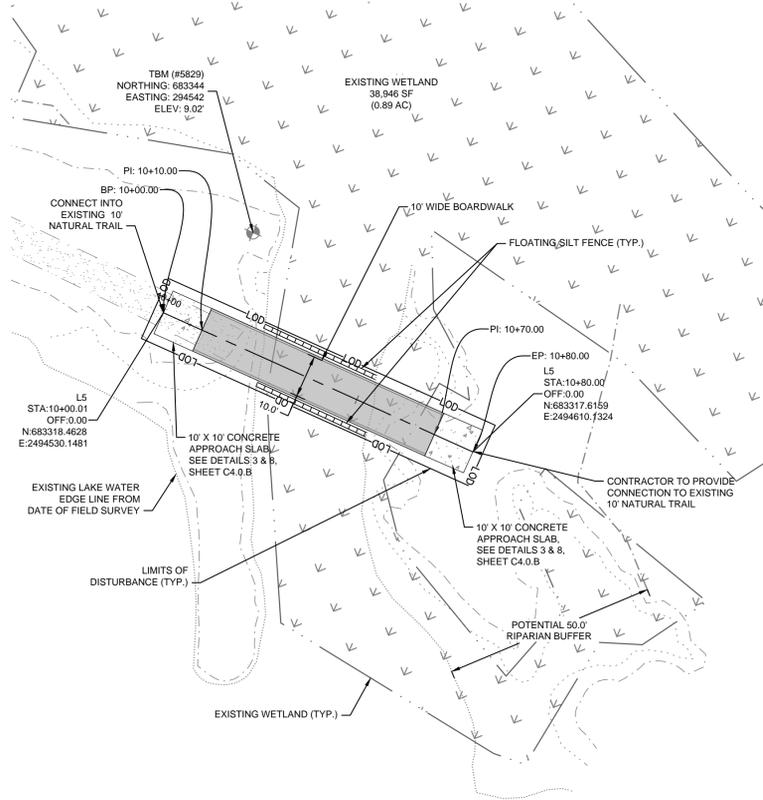
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- WHILE IMPROVEMENTS ARE BEING INSTALLED, CONTRACTOR IS TO STABILIZE ALL DISTURBED AREAS AND STREAM BANK SLOPES USING EROSION CONTROL MATTING, SEEDING, AND MULCH TO MAINTAIN A DENSE VEGETATIVE COVER.
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- REMOVE TEMPORARY CONSTRUCTION ACCESSES UPON PROJECT COMPLETION.
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- REMOVE TEMPORARY EROSION CONTROL MEASURES AND SEED OR STABILIZE ANY RESULTING BARE AREAS.
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NOTES

- REFER TO THIS SHEET, EROSION CONTROL DETAILS SHEETS AND GENERAL NOTES SHEET FOR GENERAL EROSION CONTROL NOTES AND MAINTENANCE AND SEEDBED PREPARATION AND SEEDING SCHEDULE.



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No.	REVISIONS	DATE
8	IFC PACKAGE B1	05/17/24
7	ISSUED FOR CONSTRUCTION	1/31/24
6	CITY OF GREENVILLE - TRC - 3RD SUBMITTAL	12/01/22
5	ISSUED FOR BID	8/02/22

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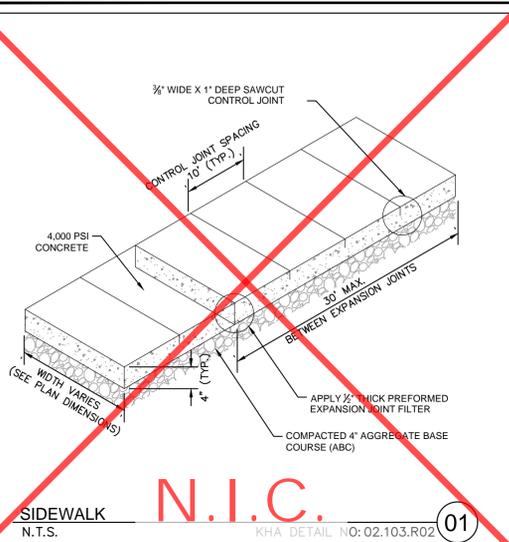
KHA PROJECT	012654010
DATE	1/31/2024
SCALE	AS SHOWN
DESIGNED BY	MRC
DRAWN BY	ASA
CHECKED BY	JDK

PLAN AND PROFILE - THE SWAMP (AREA 4)

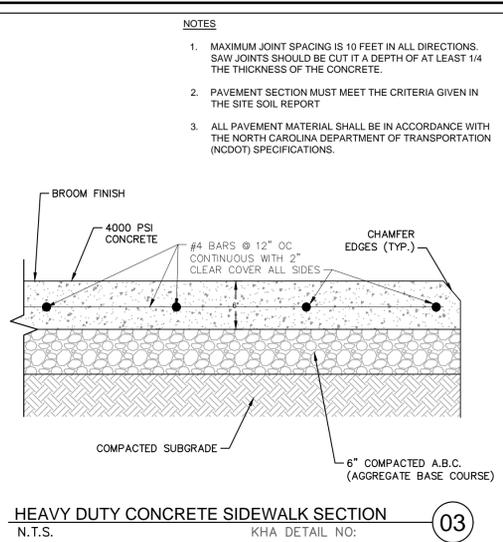
WILWOOD PARK - OBSERVATION TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE

GREENVILLE NC
SHEET NUMBER
C3.3.B

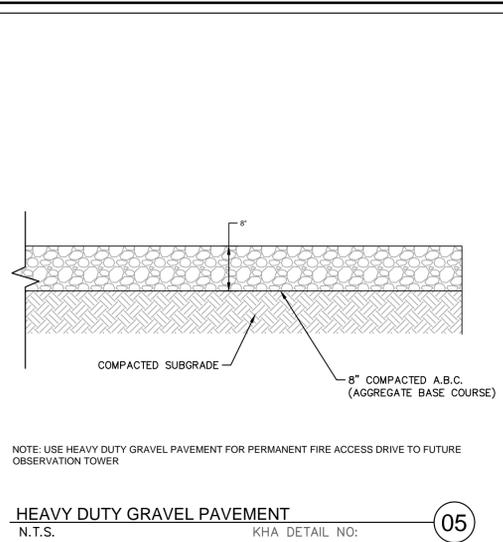
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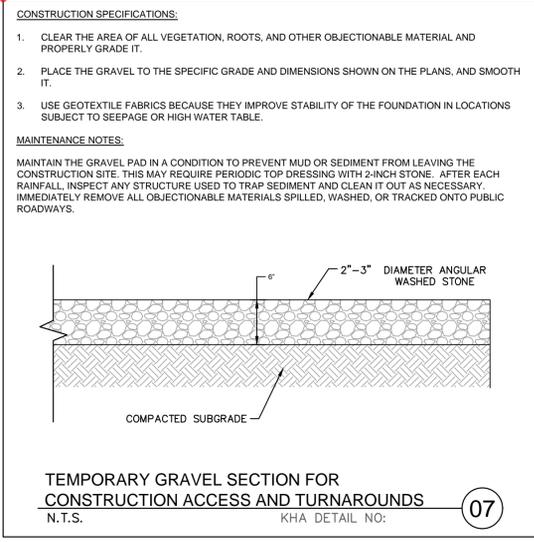
SIDEWALK
N.T.S. **N.I.C.** KHA DETAIL NO: 02.103.R02 **01**



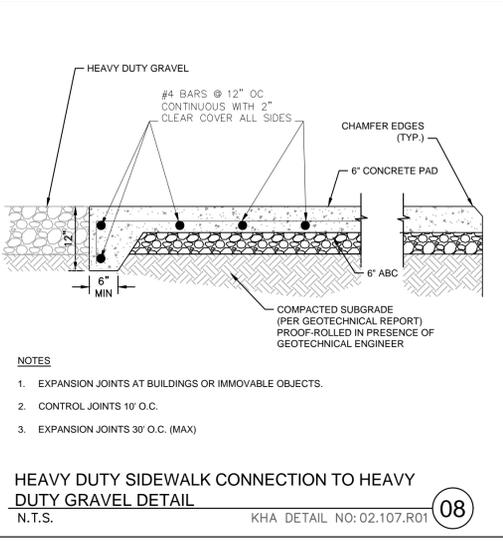
HEAVY DUTY CONCRETE SIDEWALK SECTION
N.T.S. KHA DETAIL NO: **03**



HEAVY DUTY GRAVEL PAVEMENT
N.T.S. KHA DETAIL NO: **05**



TEMPORARY GRAVEL SECTION FOR CONSTRUCTION ACCESS AND TURNAROUNDS
N.T.S. KHA DETAIL NO: **07**



HEAVY DUTY SIDEWALK CONNECTION TO HEAVY DUTY GRAVEL DETAIL
N.T.S. KHA DETAIL NO: 02.107.R01 **08**

- NOTES**
- MAXIMUM JOINT SPACING IS 10 FEET IN ALL DIRECTIONS. SAW JOINTS SHOULD BE CUT TO A DEPTH OF AT LEAST 1/4 THE THICKNESS OF THE CONCRETE.
 - PAVEMENT SECTION MUST MEET THE CRITERIA GIVEN IN THE SITE SOIL REPORT
 - ALL PAVEMENT MATERIAL SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) SPECIFICATIONS.

NOTE: USE HEAVY DUTY GRAVEL PAVEMENT FOR PERMANENT FIRE ACCESS DRIVE TO FUTURE OBSERVATION TOWER

No.	REVISIONS	DATE	BY
8	IFC PACKAGE B1	05/17/24	ADC
7	ISSUED FOR CONSTRUCTION	1/31/24	DAW
6	CITY OF GREENVILLE - TRC - 3RD SUBMITTAL	12/01/22	ASA
5	ISSUED FOR BID	8/02/22	ASA

Kimley-Horn

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#-0102



KHA PROJECT	012654010
DATE	1/31/2024
SCALE	AS SHOWN
DESIGNED BY	MRC
DRAWN BY	ASA
CHECKED BY	JDK

WILWOOD PARK - TOWER AND TRAILS BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE

GREENVILLE NC

SIDEWALK DETAILS

SHEET NUMBER
C4.0.B

SURVEY NOTE:
ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY RIVERS & ASSOCIATES, INC. DATED 05/17/21 LOCATED AT 107 EAST SECOND STREET GREENVILLE, NC 27888 PHONE: 252-752-4135.

This document, together with the concepts and designs presented herein, is an instrument of service, is intended only for the specific purpose and client for which it was prepared. Review of and reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT
Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HOW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HOW Zones -10 days for Falls Lake Watershed
(d) Slopes 3:1 to 4:1	14	
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HOW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulch and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulch and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to resist erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

- POLYACRYLAMIDES (PAMS) AND FLOCCULANTS**
- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
 - Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
 - Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
 - Provide ponding area for containment of treated Stormwater before discharging offsite.
 - Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

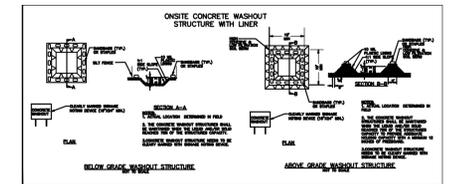
- EQUIPMENT AND VEHICLE MAINTENANCE**
- Maintain vehicles and equipment to prevent discharge of fluids.
 - Provide drip pans under any stored equipment.
 - Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
 - Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
 - Remove leaking vehicles and construction equipment from service until the problem has been corrected.
 - Bring used fluids, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

- LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**
- Never bury or burn waste. Place litter and debris in approved waste containers.
 - Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
 - Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
 - Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
 - Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
 - Anchor all lightweight items in waste containers during times of high winds.
 - Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
 - Dispose waste off-site at an approved disposal facility.
 - On business days, clean up and dispose of waste in designated waste containers.

- PAINT AND OTHER LIQUID WASTE**
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
 - Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
 - Contain liquid wastes in a controlled area.
 - Containment must be labeled, sized and placed appropriately for the needs of site.
 - Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

- PORTABLE TOILETS**
- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind sill fence or place on a gravel pad and surround with sand bags.
 - Provide stacking or anchoring of portable toilets during periods of high winds or in high traffic areas.
 - Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

- EARTHEN STOCKPILE MANAGEMENT**
- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
 - Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
 - Provide stable stone access point when feasible.
 - Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



- CONCRETE WASHOUTS**
- Do not discharge concrete or cement slurry from the site.
 - Dispose of, or recycle, settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
 - Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter sill fence.
 - Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
 - Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
 - Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
 - Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
 - Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
 - Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
 - At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

- HERBICIDES, PESTICIDES AND RODENTICIDES**
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
 - Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
 - Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
 - Do not stockpile these materials onsite.

- HAZARDOUS AND TOXIC WASTE**
- Create designated hazardous waste collection areas on-site.
 - Place hazardous waste containers under cover or in secondary containment.
 - Do not store hazardous chemicals, drums or bagged materials directly on the ground.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION
Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. If a storm event of equal or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual daily rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero". The permittee may use another rain-measuring device approved by the Division.
(2) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken, if any.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the discharge outfall inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken, if any.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the perimeter inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken, if any.
(5) Streams or wetlands onsite (where applicable)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the stream or wetland inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken, if any.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&S measures, clearing and grubbing, installation of storm drainage facilities, completion of all land disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

The approved E&S Plan as well as any approved deviation shall be kept on the site. The approved E&S Plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&S plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&S Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&S Plan.	Initial and date each E&S Measure on a copy of the approved E&S Plan or complete, date and sign an inspection report that lists each E&S Measure shown on the approved E&S Plan. This documentation is required upon the initial installation of the E&S Measures or if the E&S Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&S Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&S Plan.	Initial and date a copy of the approved E&S Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&S Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&S Measures.	Initial and date a copy of the approved E&S Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation
In addition to the E&S Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This general permit as well as the certificate of coverage, after it is received.
- Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- All data used to complete the Notice of Intent and other inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

Occurrences that must be reported
Permittees shall report the following occurrences:
(a) Visible sediment deposition in a stream or wetland.
(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143.215.85.
(d) Anticipated bypasses and unanticipated bypasses.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

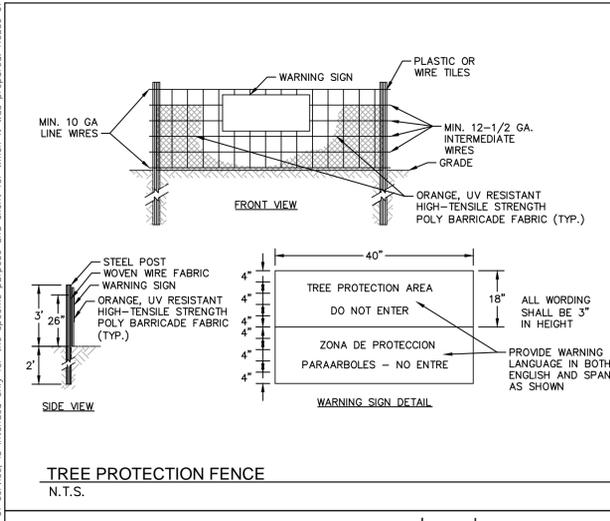
Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours , an oral or electronic notification. • Within 7 calendar days , a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per item 1(b)-(c) above	• Within 24 hours , an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 hours , an oral or electronic notification.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(6)]	• Within 7 calendar days , a report that contains a description of the noncompliance, and its causes, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue, and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(l)(6)]. • Division staff may waive the requirement for a written report on a case-by-case basis.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

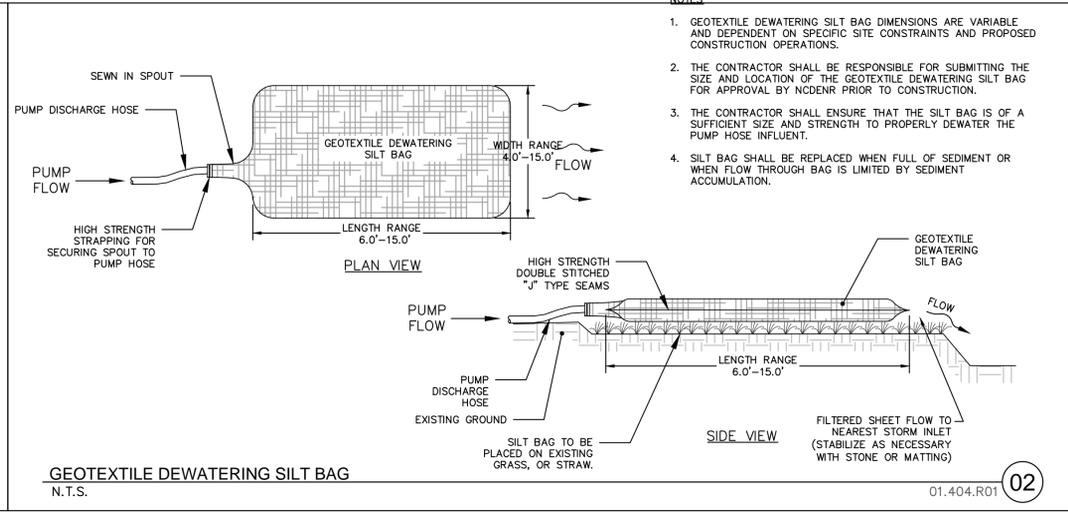
EFFECTIVE: 04/01/19

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

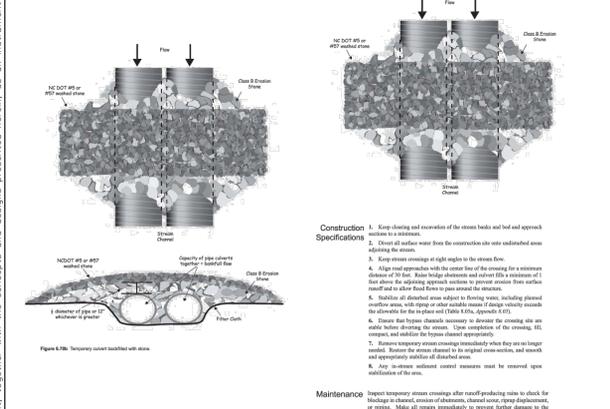
EFFECTIVE: 04/01/19



- NOTES**
- TREE PROTECTION FENCING MUST BE INSTALLED AT A MINIMUM RADIUS OF THE CRITICAL ROOT ZONE (CRZ) OF TREES. (CRZ DEFINED AS RADIUS x 1.25' (FT) PER INCH AT DBH FROM TRUNK OF TREE).
 - IF CONSTRUCTION OCCURS WITHIN THE CRZ AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
 - THE TREE PROTECTION FENCING MUST NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT.
 - THERE WILL BE ZERO TOLERANCE FOR STORING OR PARKING VEHICLES, SUPPLIES, OR EQUIPMENT UNDER PROTECTED TREES.
 - IMPACT PROTECTION DEVICES MUST BE REMOVED AFTER CONSTRUCTION.
 - WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS SHOWN.
 - SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS, PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
 - ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.
 - SHOULD THE FABRIC OF A PROTECTION FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, CONTRACTOR SHALL REPLACE IT PROMPTLY.



- NOTES**
- GEOTEXTILE DEWATERING SILT BAG DIMENSIONS ARE VARIABLE AND DEPENDENT ON SPECIFIC SITE CONSTRAINTS AND PROPOSED CONSTRUCTION OPERATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE SIZE AND LOCATION OF THE GEOTEXTILE DEWATERING SILT BAG FOR APPROVAL BY NCDNR PRIOR TO CONSTRUCTION.
 - THE CONTRACTOR SHALL ENSURE THAT THE SILT BAG IS OF A SUFFICIENT SIZE AND STRENGTH TO PROPERLY DEWATER THE PUMP HOSE INFLUENT.
 - SILT BAG SHALL BE REPLACED WHEN FULL OF SEDIMENT OR WHEN FLOW THROUGH BAG IS LIMITED BY SEDIMENT ACCUMULATION.
- CONSTRUCTION SPECIFICATIONS:**
- CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
 - PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
 - PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
 - USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.
- MAINTENANCE NOTES:**
MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.
- TEMPORARY CONSTRUCTION ENTRANCE**
N.T.S. KHA DETAIL NO: 01.101.R02



- MAINTENANCE NOTES:**
IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED AND MAINTAINED DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. ANY SEDIMENT THAT HAS BEEN TRANSPORTED BEYOND THE PROJECT LIMITS SHALL BE REMOVED. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:
- CONSTRUCTION ENTRANCE:**
INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
- SILT FENCE:**
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- SILT FENCE GRAVEL OUTLET:**
INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.

SELF MONITORING AND INSPECTION NOTIFICATION

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS BECAME EFFECTIVE OCTOBER 1, 2010. TO SIMPLIFY DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, A COMBINED FORM IS NOW AVAILABLE. THE NEW FORM WAS DEVELOPED TO SATISFY THE REQUIREMENTS OF THE SEDIMENTATION POLLUTION CONTROL ACT AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. NCG 010000. BEGINNING AUGUST 1, 2013, THE DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES IS RESPONSIBLE FOR ADMINISTERING BOTH THE SPCA AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. NCG 010000. THE COMBINED FORM SHOULD MAKE IT EASIER TO COMPLY WITH SELF-INSPECTION REQUIREMENTS. THE COMBINED SELF-MONITORING FORM IS AVAILABLE AS A PDF AND WORD DOCUMENT FROM THE LAND QUALITY WEB SITE.

https://files.nc.gov/ncdeq/Energy%20Mineral%20and%20Land%20Resources/Stormwater/NCG010000_Final_Permit_2019_04_01.pdf

IF YOU HAVE QUESTIONS, PLEASE CONTACT THE LAND QUALITY SECTION AT NCDEQ REGIONAL OFFICE.

NCDEQ TEMPORARY STREAM CROSSING DETAIL INFORMATION
N.T.S.

04

SURVEY NOTE:
ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY RIVERS & ASSOCIATES, INC. DATED 05/17/21 LOCATED AT 107 EAST SECOND STREET GREENVILLE, NC 27688 PHONE: 252-752-4135.

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#F-0102

REVISIONS

NO.	DATE	BY
5	8/02/22	ASA
6	12/01/22	ASA
7	1/31/24	DAW
8	05/17/24	ADC

PROJECT INFORMATION

ISSUED FOR SUBMITTAL	TRC - 3RD SUBMITTAL
ISSUED FOR BID	
DATE	

SCALE:
KHA PROJECT 012654010
DATE 1/31/2024
SCALE AS SHOWN
DESIGNED BY MRC
DRAWN BY ASA
CHECKED BY JDK

EROSION CONTROL DETAILS

WILWOOD PARK - TOWER AND TRAILS BID PACKAGE B PREPARED FOR CITY OF GREENVILLE

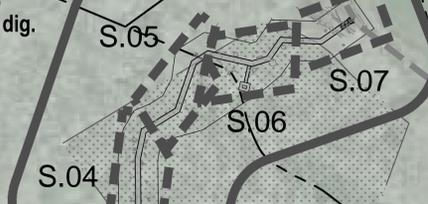
GREENVILLE

SHEET NUMBER C4.2.B

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Know what's below.
Call before you dig.



STRUCTURE #3
"THE SWAMP"
BID PACKAGE B

~~STRUCTURE #2
"THE SWAMP"
BID PACKAGE B~~

N.I.C.

~~STRUCTURE #1
"THE BEACH"
BID PACKAGE A~~

N.I.C.

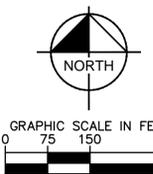
SOUTH TAR RIVER GREENWAY

TAR RIVER

EXISTING LAKE

US-264

EXISTING LAKE



No.	REVISIONS	DATE	BY
8	IFC PACKAGE B1	5/17/24	ADC
7	ISSUED FOR CONSTRUCTION	1/31/24	DAW
6	CITY OF GREENVILLE - TRC - 3RD SUBMITTAL	12/01/22	ASA
5	ISSUED FOR BID	8/02/22	ASA

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KHA PROJECT	012654010
DATE	1/31/2024
SCALE	AS SHOWN
DESIGNED BY	BMK
DRAWN BY	JJK
CHECKED BY	MDM

STRUCTURE LOCATIONS

WILDWOOD PARK -
TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE
GREENVILLE NC

SHEET NUMBER
S.03.B

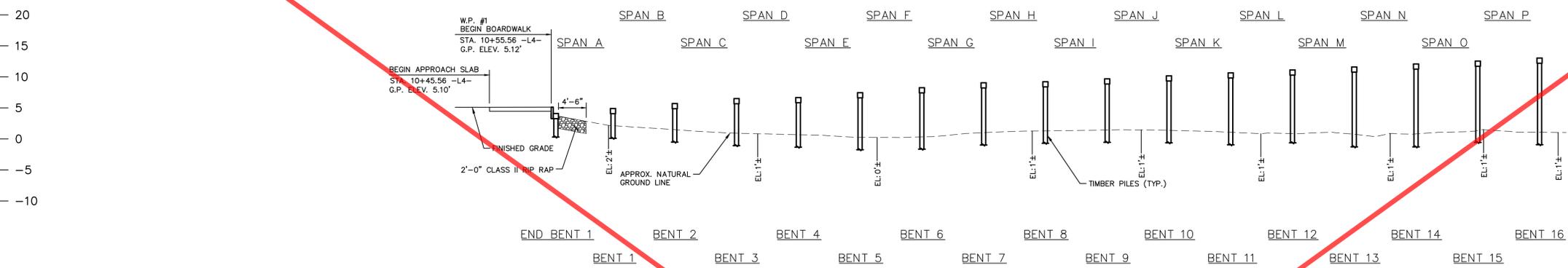
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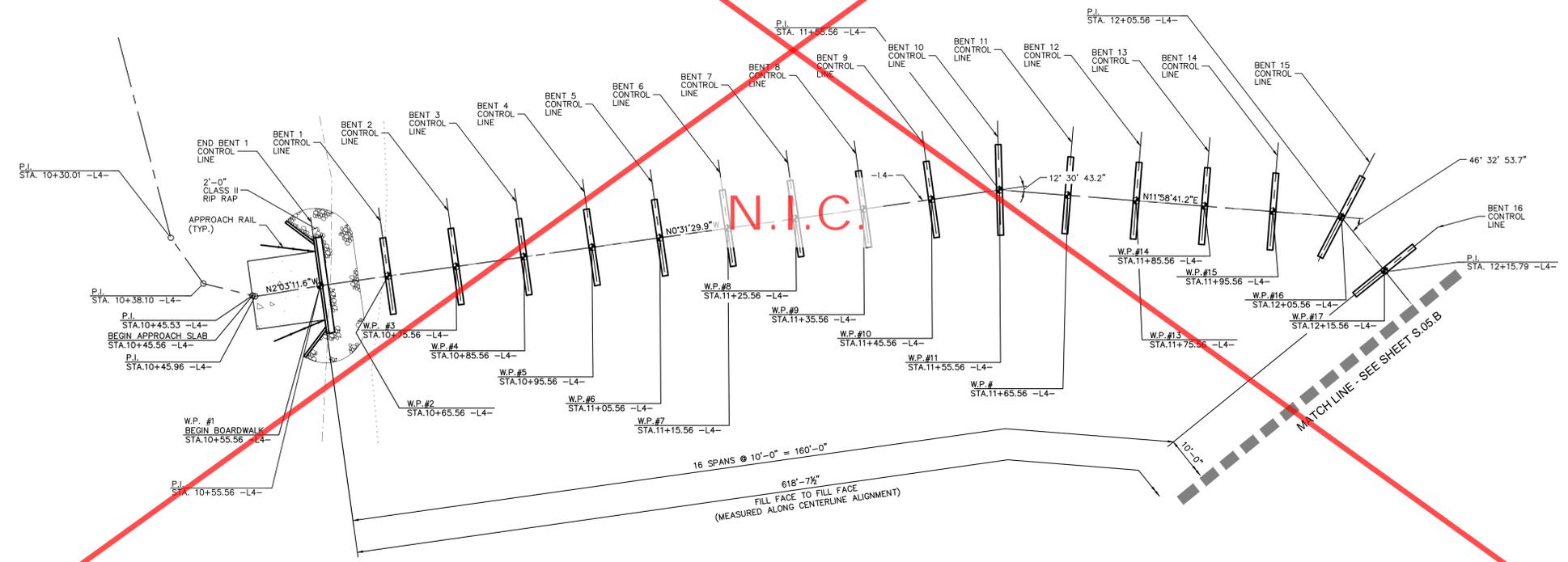
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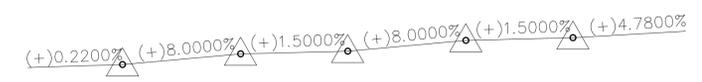
11+00 12+00



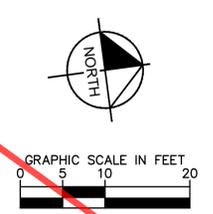
SECTION ALONG -L4-
(SECTIONS @ BENTS AND END BENTS ARE @ RIGHT ANGLES)
(LONGITUDINAL BRACING NOT SHOWN FOR CLARITY)



PLAN
(PILES NOT SHOWN IN PLAN VIEW)



PVI STA.	EL.	V.C.	PVI STA.	EL.	V.C.	PVI STA.	EL.	V.C.	PVI STA.	EL.	V.C.	PVI STA.	EL.	V.C.
10+55.56 -L4-	5.12'	0'	10+85.56 -L4-	7.52'	0'	10+95.56 -L4-	7.67'	0'	11+25.56 -L4-	10.07'	0'	11+35.56 -L4-	10.22'	0'



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7	ISSUED FOR CONSTRUCTION	1/31/24	DAW
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DATE	1/31/2024
SCALE	AS SHOWN
DESIGNED BY	BMK
DRAWN BY	JK
CHECKED BY	MDM

**PLAN AND PROFILE -
THE SWAMP (AREA 4)
(STRUCTURE #2)**

WILDWOOD PARK -
TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE

GREENVILLE NC
SHEET NUMBER
S.04.B

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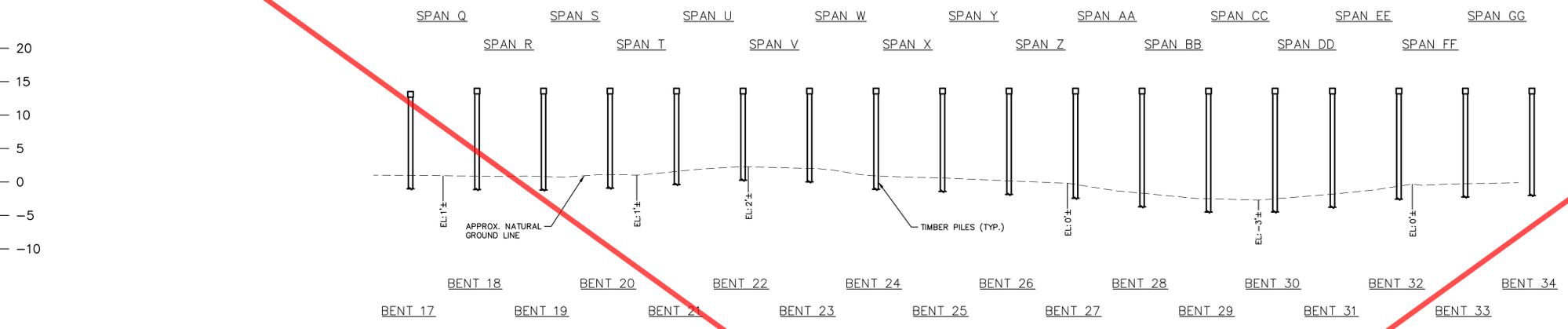


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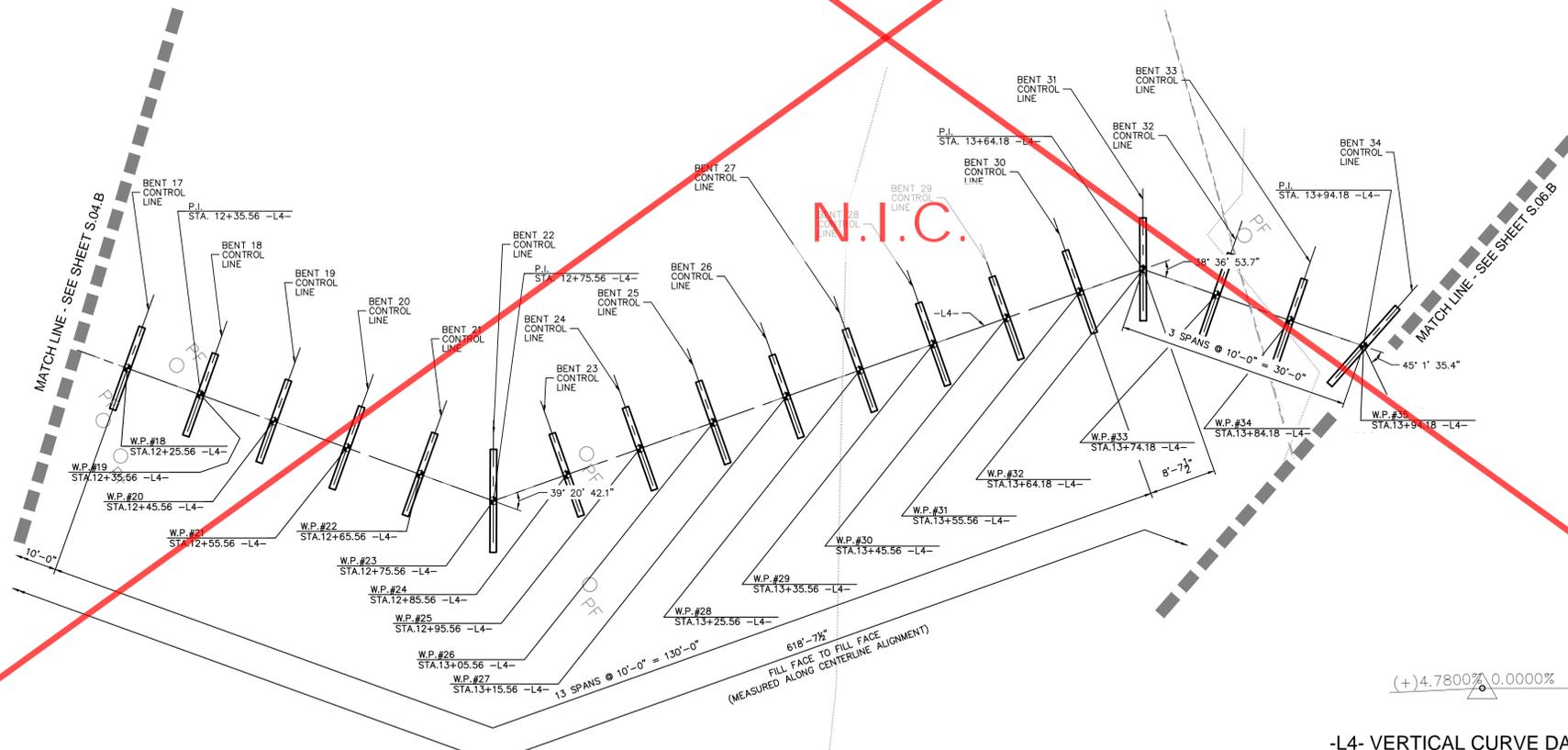
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13+00

14+00



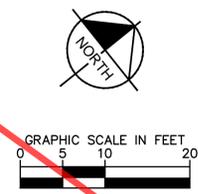
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 (SECTIONS @ BENTS AND END BENTS ARE @ RIGHT ANGLES)
 (LONGITUDINAL BRACING NOT SHOWN FOR CLARITY)



PLAN
 (PILES NOT SHOWN IN PLAN VIEW)

-L4- VERTICAL CURVE DATA

PVI STA. = 12+35.56 -L4-
 EL. = 15.00'
 V.C. = 0'



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KHA PROJECT	012654010
DATE	1/31/2024
SCALE	AS SHOWN
DESIGNED BY	BMK
DRAWN BY	JJK
CHECKED BY	MDM

**PLAN AND PROFILE -
 THE SWAMP (AREA 4)
 (STRUCTURE #2)**

WILDWOOD PARK -
 TOWER AND TRAILS
 BID PACKAGE B
 PREPARED FOR
 CITY OF GREENVILLE

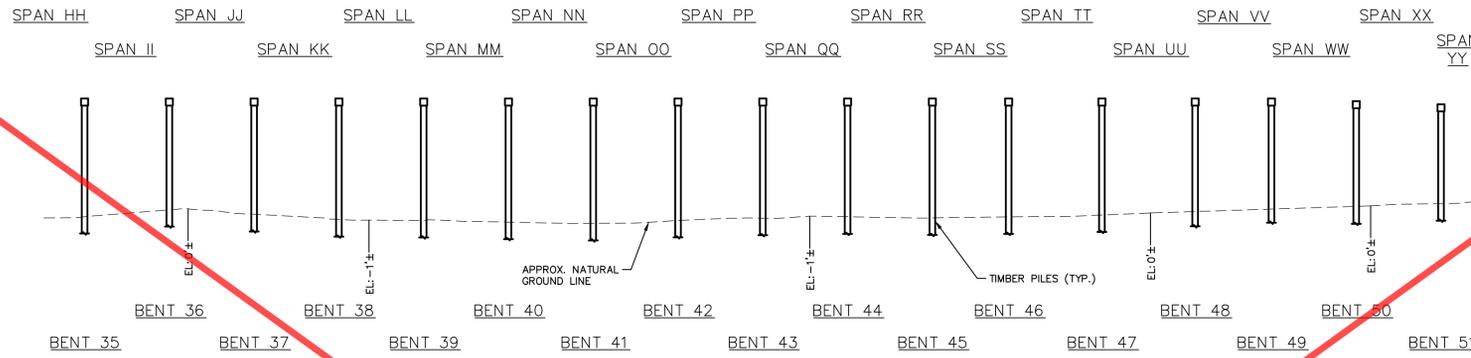
GREENVILLE, NC
 SHEET NUMBER
S.05.B

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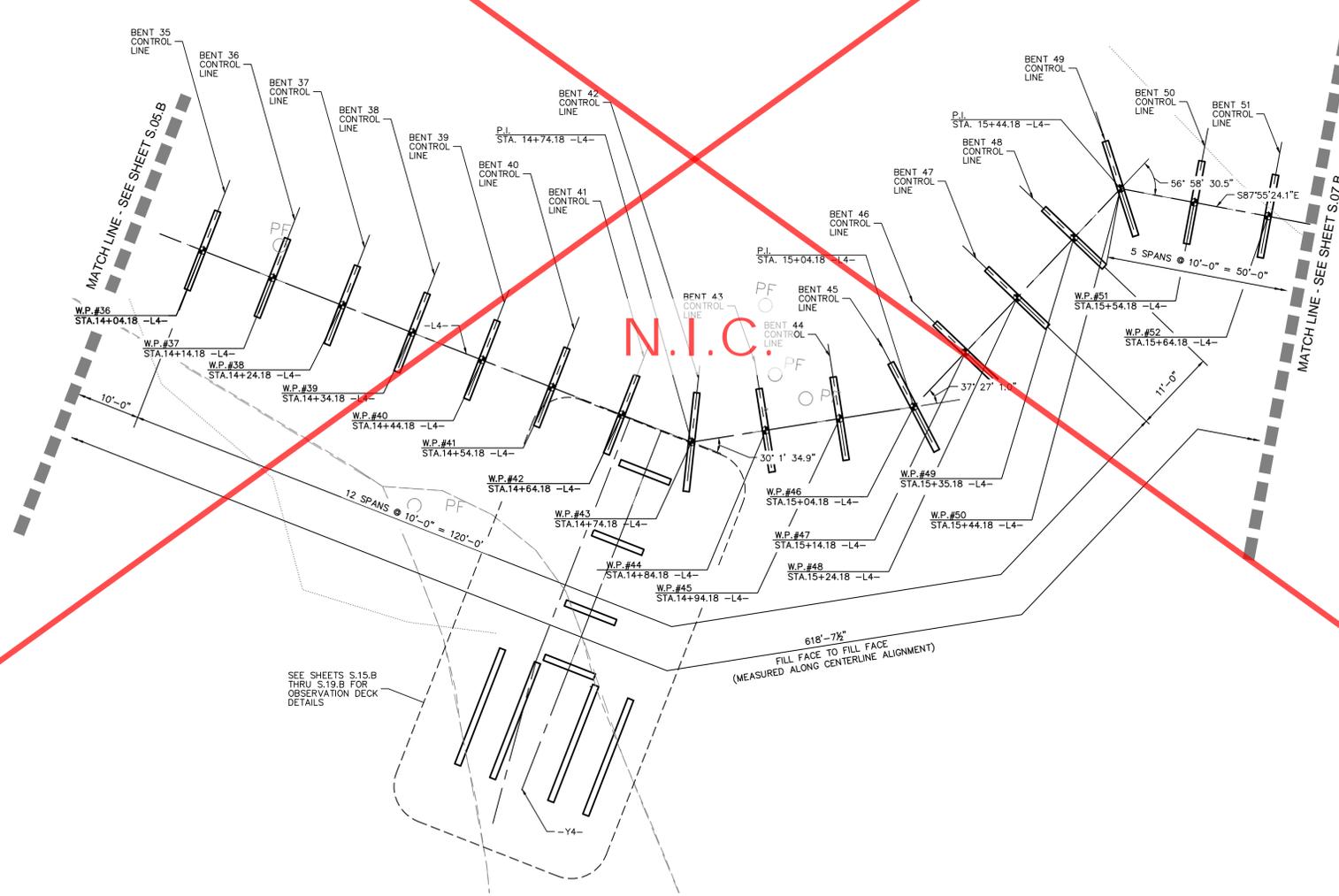
Know what's below.
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14+00 15+00

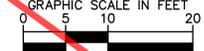


SECTION ALONG -L4-
(SECTIONS @ BENTS AND END BENTS ARE @ RIGHT ANGLES)
(LONGITUDINAL BRACING NOT SHOWN FOR CLARITY)

0.0000% (-)3.5000%
-L4- VERTICAL CURVE DATA
PVI STA. = 15+44.18 -L2-
EL. = 15.00'
V.C. = 0'



PLAN
(PILES NOT SHOWN IN PLAN VIEW)



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DESIGNED BY	BMK	CHECKED BY	MDM
DRAWN BY	JJK		

PLAN AND PROFILE -
THE SWAMP (AREA 4)
(STRUCTURE #2)

WILDWOOD PARK -
TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE
GREENVILLE NC

SHEET NUMBER
S.06.B

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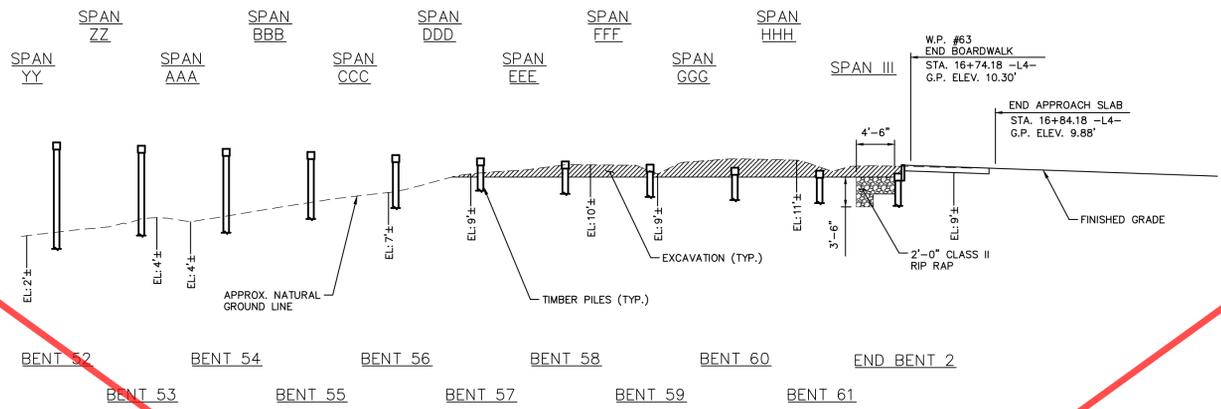
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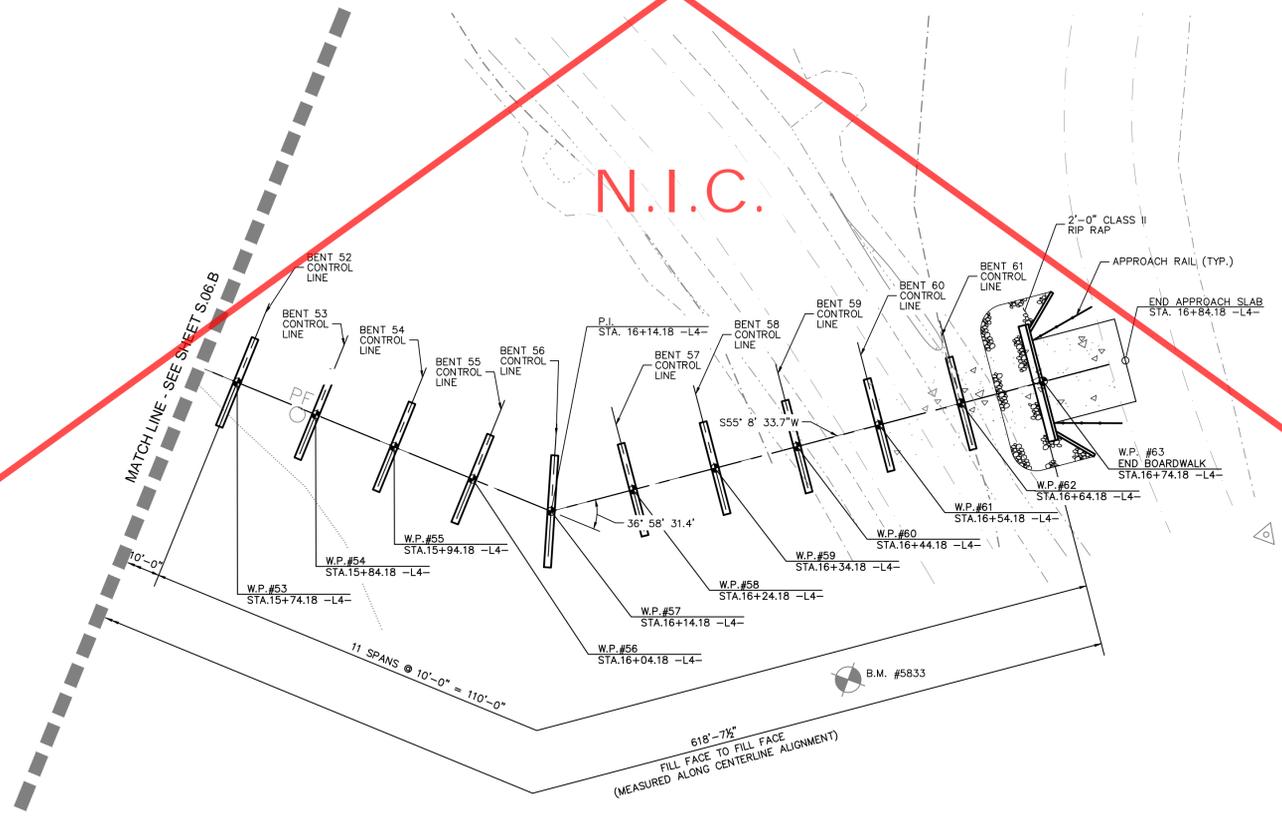


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(SECTIONS @ BENTS AND END BENTS ARE @ RIGHT ANGLES)
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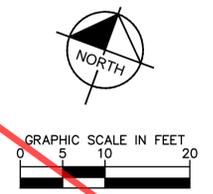
(-)3.5000% (-)4.2300%

-L4- VERTICAL CURVE DATA

PVI STA. = 16+54.18 -L4-
EL. = 11.14'
V.C. = 0'



PLAN
(PILES NOT SHOWN IN PLAN VIEW)



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SCALE	AS SHOWN
DESIGNED BY	BMK
DRAWN BY	JJK
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**PLAN AND PROFILE -
THE SWAMP (AREA 4)
(STRUCTURE #2)**

WILDWOOD PARK -
TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE
NC

SHEET NUMBER
S.07.B

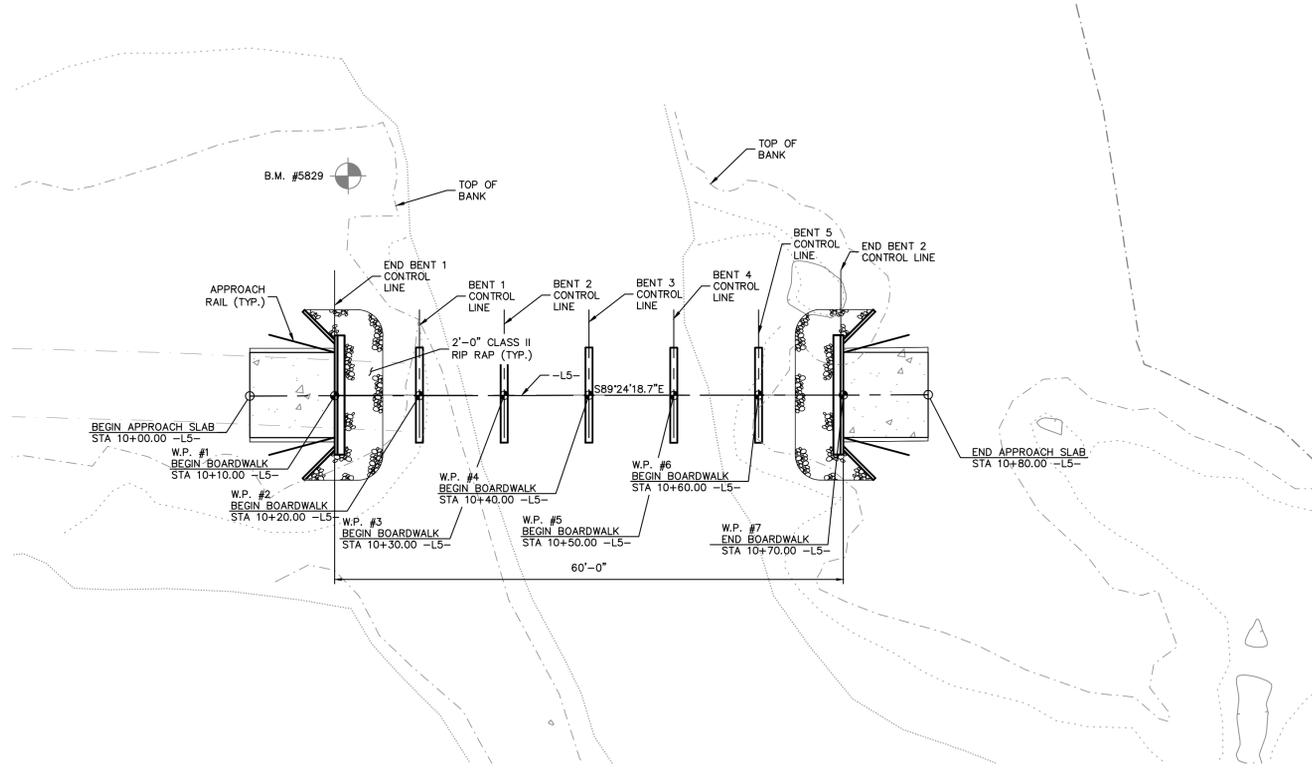
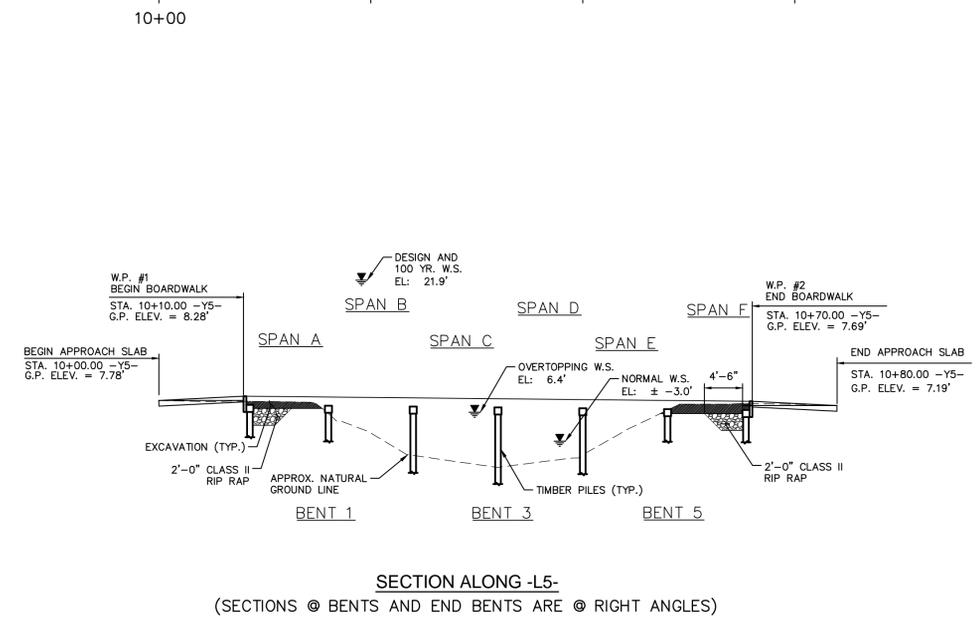
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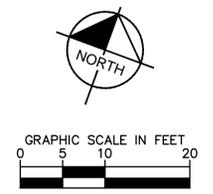


PLAN
(PILES NOT SHOWN IN PLAN VIEW)



-L5- VERTICAL CURVE DATA

PVI STA. = 10+10.00 -L5- PVI STA. = 10+70.00 -L5-
 EL. = 8.28' EL. = 7.69'
 V.C. = 0' V.C. = 0'



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5	ISSUED FOR BID	8/02/22

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KHA PROJECT	012654010
DATE	1/31/2024
SCALE	AS SHOWN
DESIGNED BY	BMK
DRAWN BY	JK
CHECKED BY	MDM

**PLAN AND PROFILE -
 THE SWAMP (AREA 4)
 (STRUCTURE #3)**

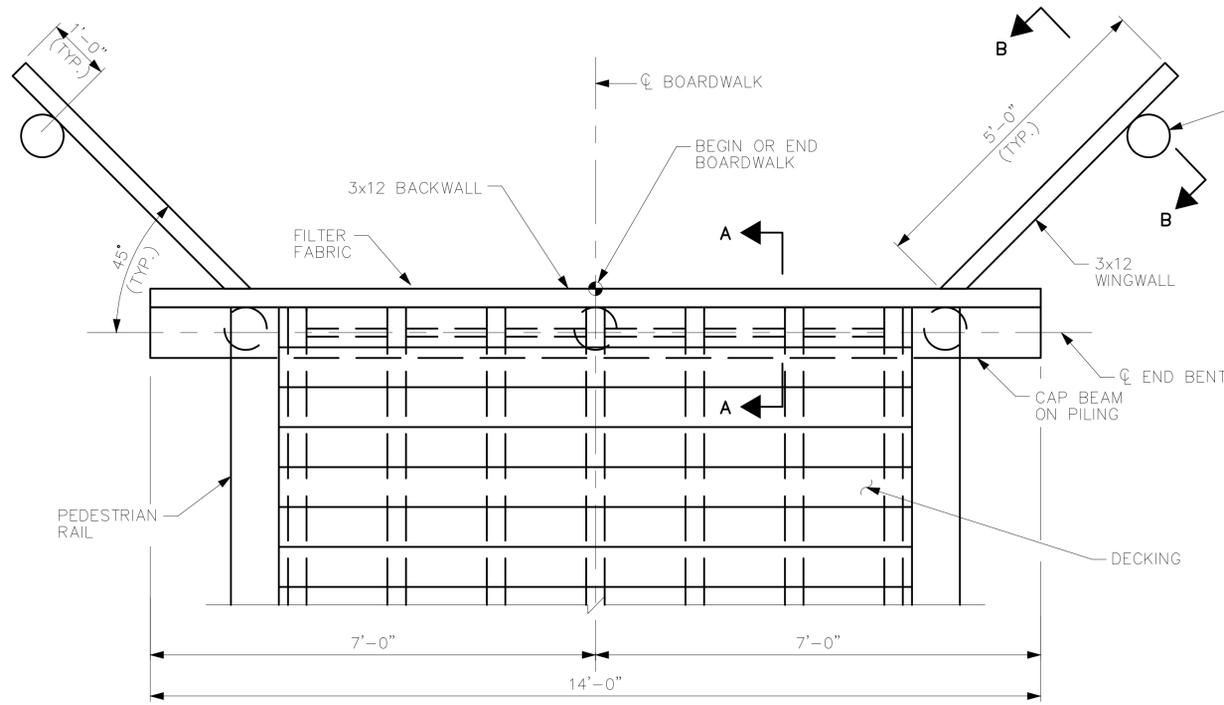
WILDWOOD PARK -
 TOWER AND TRAILS
 BID PACKAGE B
 PREPARED FOR
 CITY OF GREENVILLE
 GREENVILLE NC

SHEET NUMBER
S.08.B

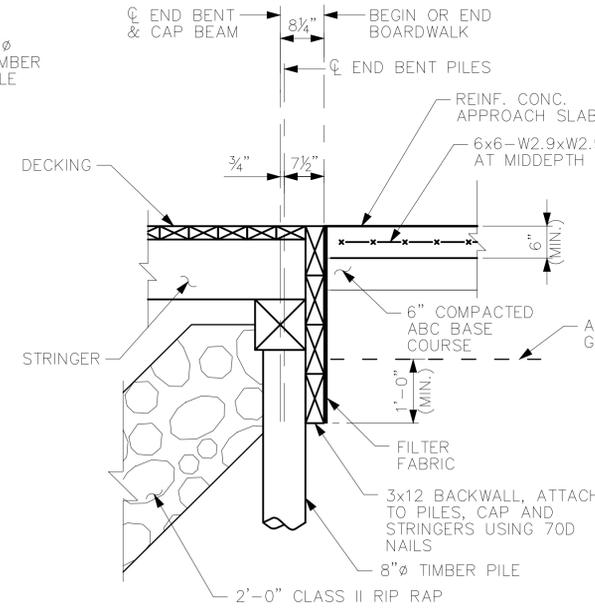
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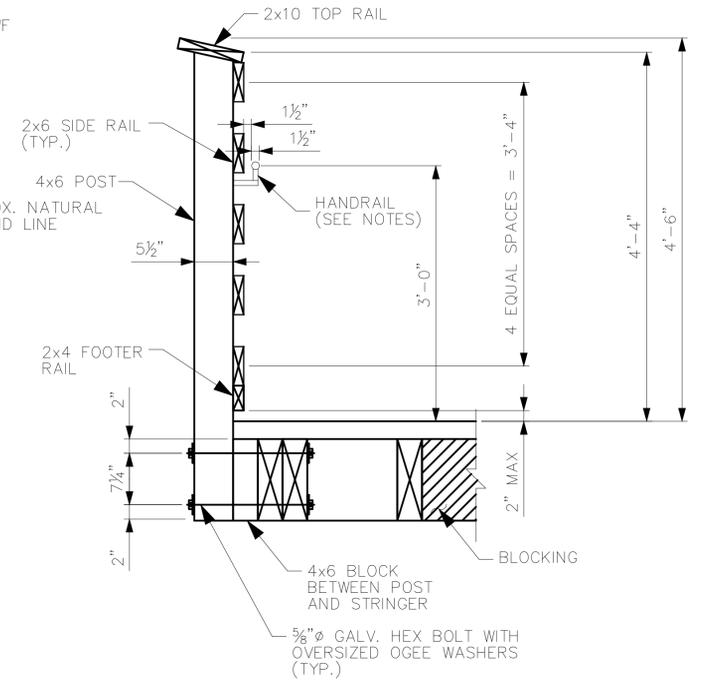
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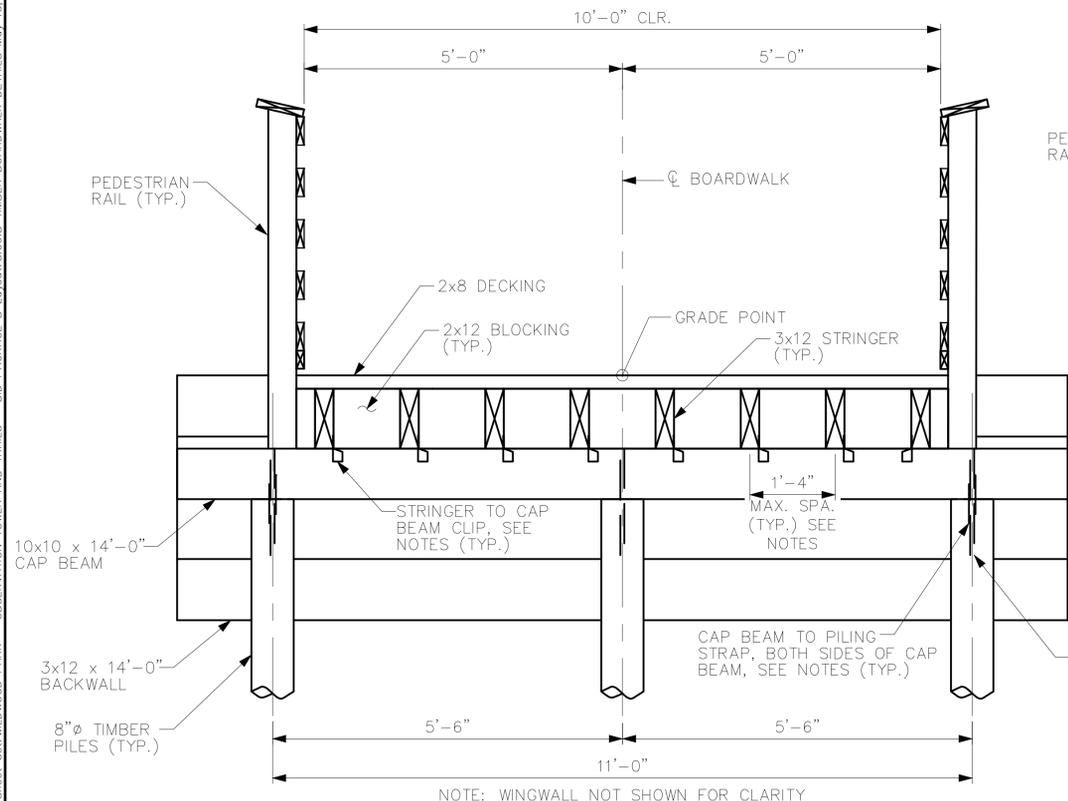
TIMBER BOARDWALK END BENT PLAN



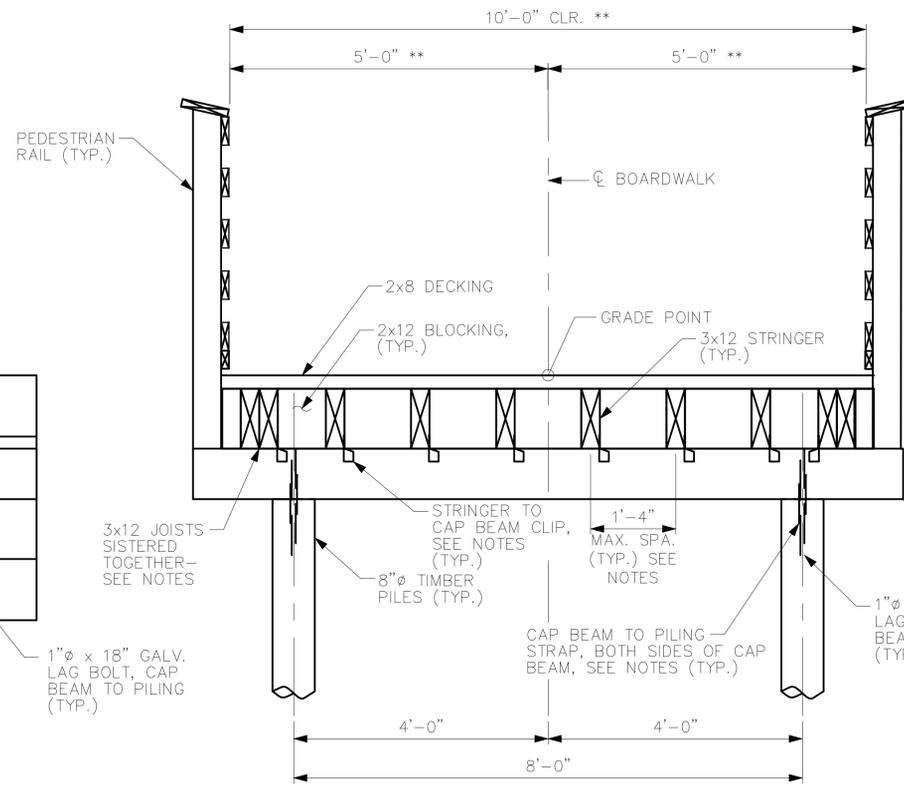
SECTION A-A
(RAILING NOT SHOWN FOR CLARITY)



PEDESTRIAN RAIL DETAIL



TIMBER BOARDWALK END BENT ELEVATION



TIMBER BOARDWALK BENT ELEVATION

** DIMENSIONS VARY FOR BENTS LOCATED AT BOARDWALK TURNS. CAP BEAM SIZE INCREASES TO 10x10x13'-2". CLEAR DISTANCE BETWEEN RAILINGS VARIES FOR THESE LOCATIONS BUT SHALL NOT BE LESS THAN 10'-0".
-L2- BENTS AT TURNS: BENT 6, BENT 8, BENT 15, BENT 21, BENT 28, BENT 31, BENT 34, BENT 43, BENT 59.
-L4- BENTS AT TURNS: BENT 10, BENT 15, BENT 22, BENT 31, BENT 34, BENT 42, BENT 45, BENT 49, BENT 56.

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NOTES

STRINGER TO CAP BEAM CLIP SHALL BE:
1. SIMPSON STRONG TIE LTS12
2. USP TIE RT4
3. OR APPROVED EQUAL

CAP BEAM TO PILING STRAP SHALL BE:
1. SIMPSON MSTA12 FLAT STRAP
2. USP MSTA12 FLAT STRAP
3. OR APPROVED EQUAL

TIMBER PILES SHALL HAVE MINIMUM TIP DIAMETER OF 8"

STRINGERS MAY BE SPACED AS NECESSARY WITHOUT EXCEEDING DECKING SPAN OF 1'-4".

FOR ANY INDIVIDUAL JOIST SPANS EXCEEDING 10'-0", TWO (2) 3x12 JOISTS SISTERED TOGETHER SHALL BE REQUIRED.

HANDRAIL IS REQUIRED AT SECTIONS OF BOARDWALK WHERE GRADE IS EQUAL TO OR GREATER THAN 5%. HANDRAIL SHALL COMPLY WITH GOVERNING ADA GUIDELINES. HANDRAIL SHALL BE GALVANIZED STEEL OR AN APPROVED ALTERNATIVE.

NO.	REVISIONS	DATE
8	IFC PACKAGE BI	5/17/24
7	ISSUED FOR CONSTRUCTION	1/31/24
6	CITY OF GREENVILLE - TRC - 3RD SUBMITTAL	12/01/22
5	ISSUED FOR BID	8/02/22
		ASA
		BY

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KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
012654010	1/31/2024	AS SHOWN	BMK	JJK	MDM

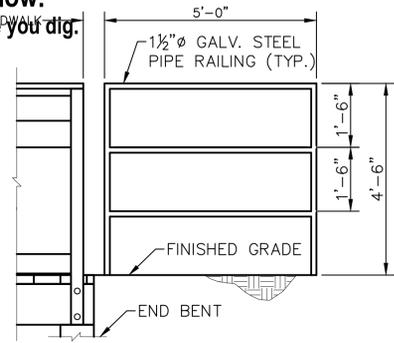
TIMBER BOARDWALK DETAILS

WILDWOOD PARK - TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE

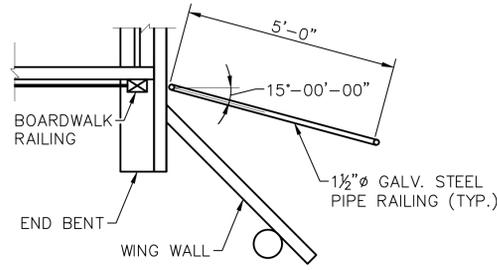
Plotted By: Cullinan, Alex Sheet Set: WILDWOOD PARK - OBSERVATION TOWER AND TRAILS - BID PACKAGE B - Layout: S.09.B - Timber Boardwalk Details May 15, 2024 03:34:34pm \\kimley-horn.com\CL_RAL\LD\VA\012654010 - Wildwood Park - Walkways - Tower - Walkways - Bid Package B\BLS\0918



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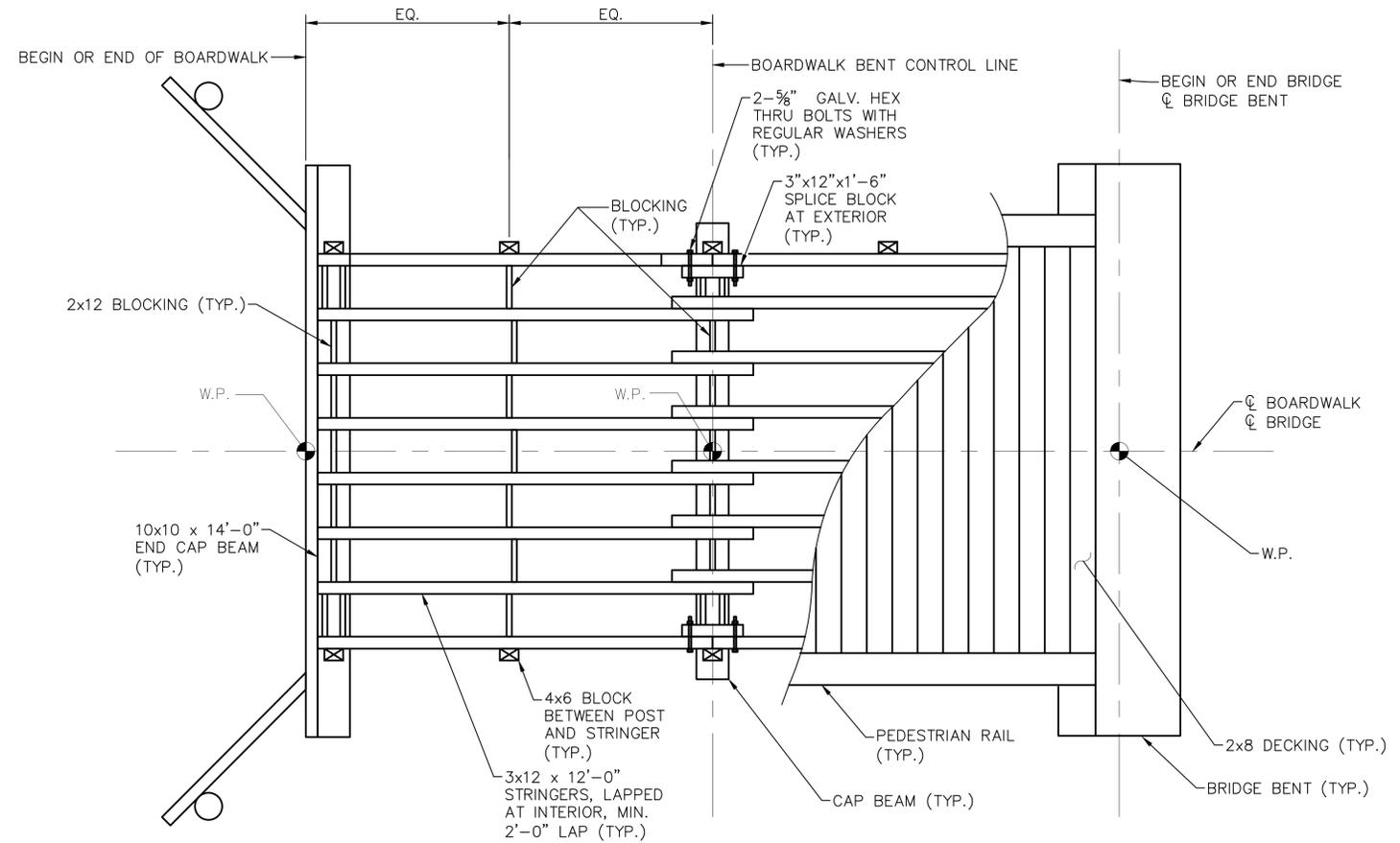


ELEVATION

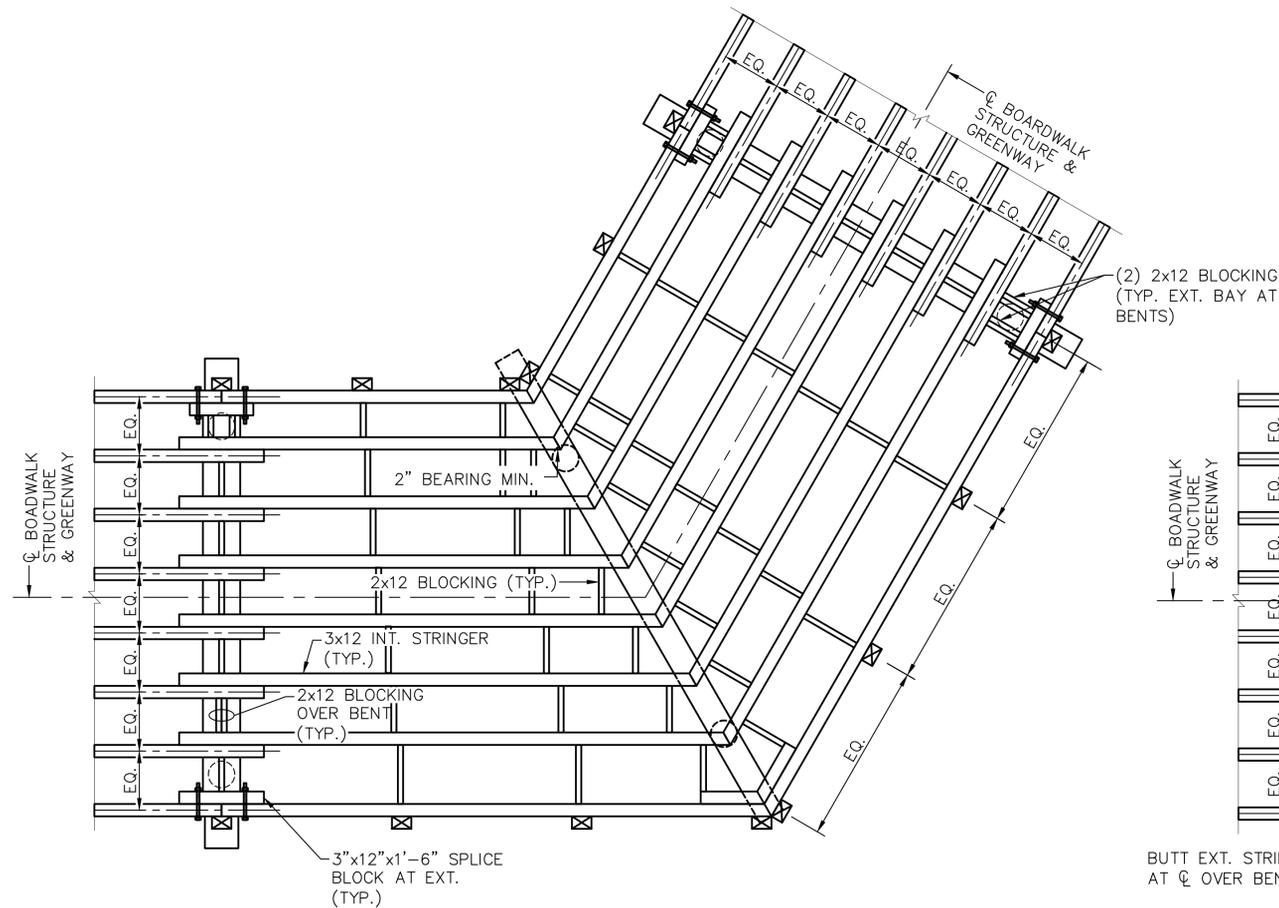


PLAN

TYPICAL APPROACH RAIL

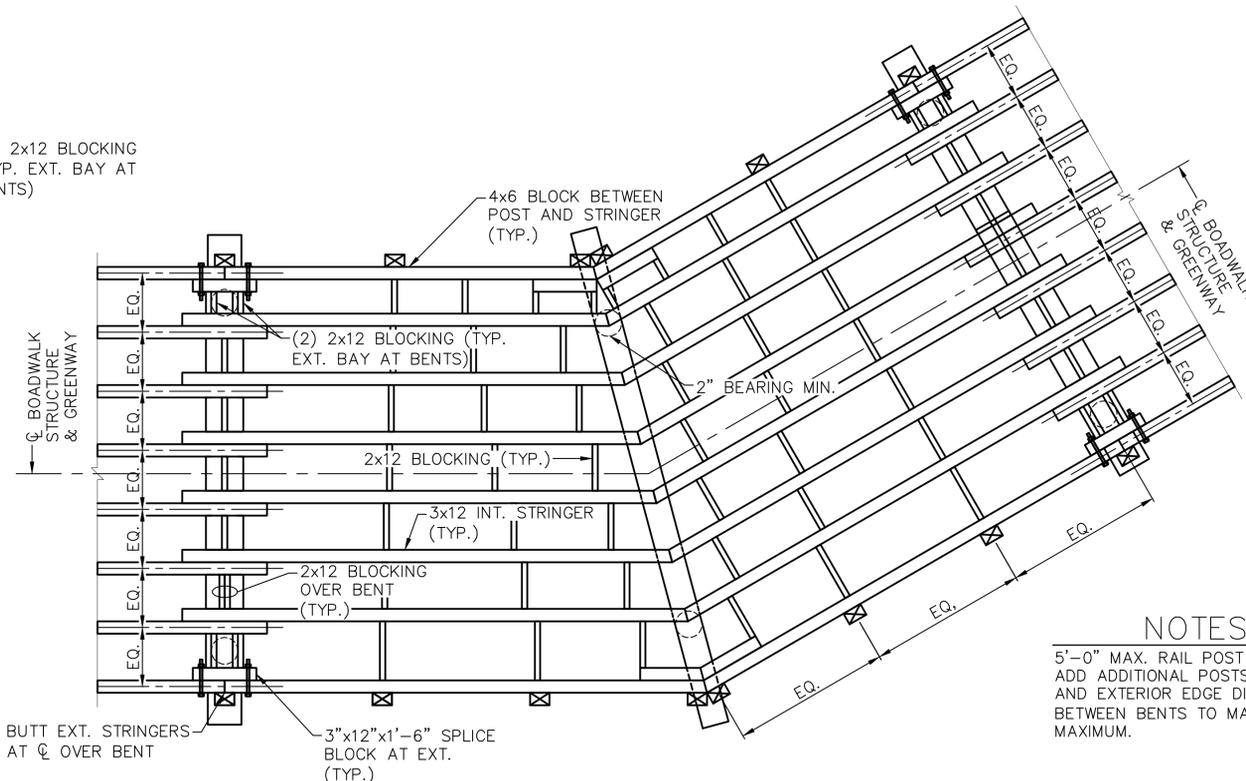


TIMBER BOARDWALK DECK FRAMING PLAN



FRAMING AT >30° TURN

NOTE:
WHERE INDIVIDUAL JOIST SPANS EXCEED 10'-0",
TWO (2) 3x12 JOISTS SISTERED TOGETHER SHALL
BE REQUIRED.



FRAMING AT <30° TURN

NOTE:
WHERE INDIVIDUAL JOIST SPANS EXCEED 10'-0",
TWO (2) 3x12 JOISTS SISTERED TOGETHER SHALL
BE REQUIRED.

NOTES
5'-0" MAX. RAIL POST SPACING.
ADD ADDITIONAL POSTS FOR SPANS
AND EXTERIOR EDGE DISTANCES
BETWEEN BENTS TO MAINTAIN 5'-0"
MAXIMUM.

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8	IFC PACKAGE B1	5/17/24	ADC	
7	ISSUED FOR CONSTRUCTION	1/31/24	DAW	
6	CITY OF GREENVILLE - TRC - 3RD SUBMITTAL	12/01/22	ASA	
5	ISSUED FOR BID	8/02/22	ASA	
No.				DATE
				BY

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KHA PROJECT	012654010	DATE	1/31/2024	SCALE	AS SHOWN	DESIGNED BY	BMK	DRAWN BY	JJK	CHECKED BY	MDW	DATE	5/31/2024
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TIMBER BOARDWALK
FRAMING DETAILS

WILDWOOD PARK -
TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE
GREENVILLE NC

SHEET NUMBER
S.10.B

Plotted By: Cullinan, Alex. Sheet Set: WILDWOOD PARK - OBSERVATION TOWER AND TRAILS - BID PACKAGE B. Layout: S.I.D.B. TIMBER BOARDWALK FRAMING DETAILS. Max. 15. 2024. 03:34:40pm. \\kimley-horn.com\CL-RALLY\AL-DEV\012654010-Wildwood_Park-Walkways-Tower-Planning-Phase\PI0-CAD-Files\PlanSheets\Bid-Package-B\B1-S10.B

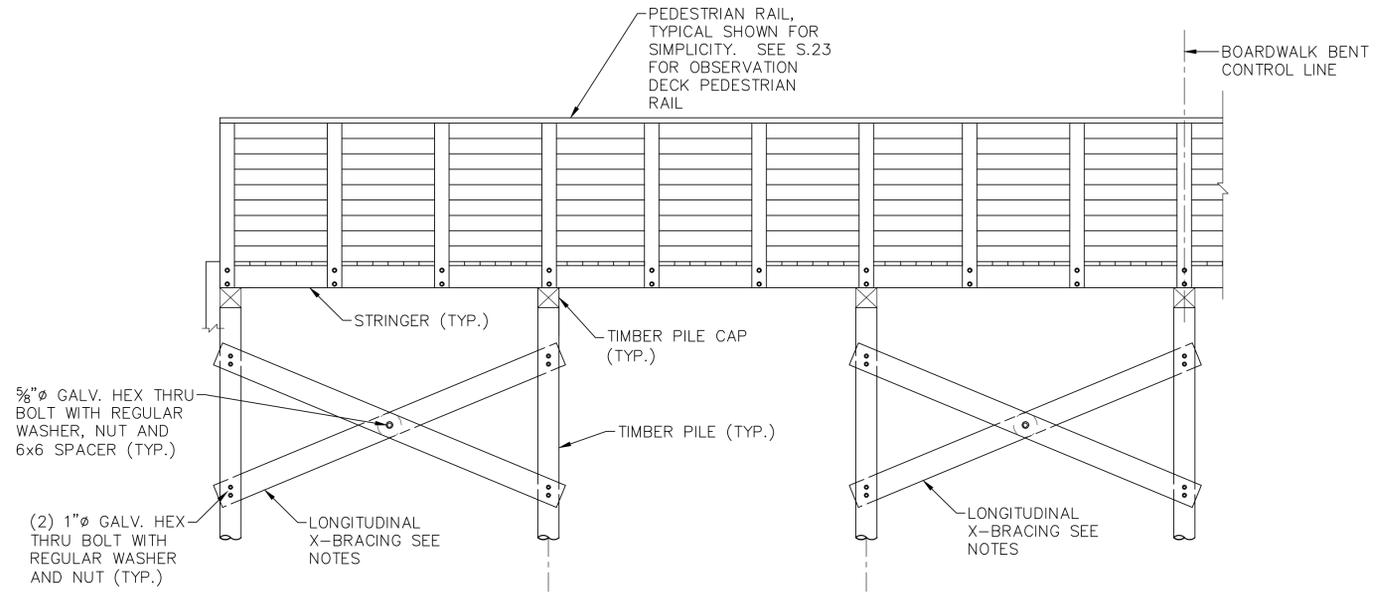


Know what's below.
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FOUNDATION AND BRACING REQUIREMENTS							
ALIGNMENT	BENT NO.	PILE TYPE	NO. PILES (PER SUBSTRUCTURE UNIT), EA.	FOUNDATION TYPE	ESTIMATED PILE LENGTH (PER PILE), FT.	LATERAL BRACING (DETAIL B)	LONGITUDINAL BRACING (DETAIL A)
-L4- (THE SWAMP)	END BENT 1	8" DIA. TIMBER	3	1	35	NO	NO
	1 - 4	8" DIA. TIMBER	2	2	40	NO	NO
	5 - 9	8" DIA. TIMBER	2	2	40	YES	NO
	10	8" DIA. TIMBER	2	3	45	YES	NO
	11 - 13	8" DIA. TIMBER	2	2	40	YES	YES
	14	8" DIA. TIMBER	2	4	50	YES	YES
	15	8" DIA. TIMBER	2	3	45	YES	YES
	16 - 23	8" DIA. TIMBER	2	4	50	YES	YES
	24	8" DIA. TIMBER	2	3	45	YES	YES
	25 - 32	8" DIA. TIMBER	2	4	50	YES	YES
	33	8" DIA. TIMBER	2	5	55	YES	YES
	34 - 43	8" DIA. TIMBER	2	4	50	YES	YES
	44	8" DIA. TIMBER	2	5	55	YES	YES
	45 - 46	8" DIA. TIMBER	2	4	50	YES	YES
	47	8" DIA. TIMBER	2	5	55	YES	YES
	48 - 50	8" DIA. TIMBER	2	4	50	YES	YES
	51	8" DIA. TIMBER	2	5	55	YES	YES
	52 - 53	8" DIA. TIMBER	2	4	50	YES	YES
	54	8" DIA. TIMBER	2	2	40	YES	YES
	55 - 56	8" DIA. TIMBER	2	2	40	YES	NO
57	8" DIA. TIMBER	2	2	40	NO	NO	
58	8" DIA. TIMBER	2	3	45	NO	NO	
59 - 61	8" DIA. TIMBER	2	2	40	NO	NO	
END BENT 2	8" DIA. TIMBER	3	1	35	NO	NO	
-Y4- (THE SWAMP)	1 - 4	8" DIA. TIMBER	4	6	50	YES **	YES **
	5 - 8	8" DIA. TIMBER	2	4	50	YES **	YES **
-L5- (THE SWAMP)	END BENT 1	8" DIA. TIMBER	3	1	35	NO	NO
	1	8" DIA. TIMBER	2	2	40	NO	NO
	2-4	8" DIA. TIMBER	2	2	40	YES	NO
	5	8" DIA. TIMBER	2	2	40	NO	NO
END BENT 2	8" DIA. TIMBER	3	1	35	NO	NO	

** TWO ROWS OF BRACING REQUIRED; SEE 'DETAIL C' THIS SHEET.

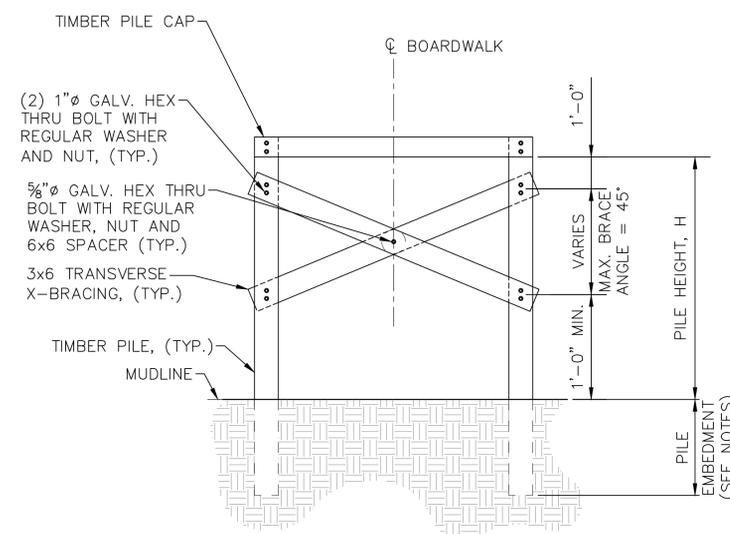
N.I.C.



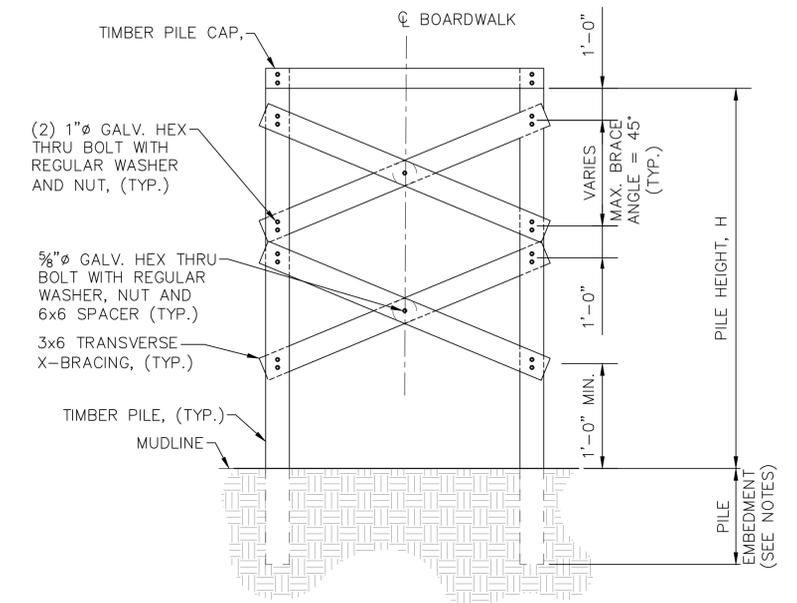
NOTES:

1. PROVIDE LONGITUDINAL 3x6 X-BRACING ON EACH SIDE OF BOARDWALK WHEN DICTATED IN "FOUNDATION AND BRACING REQUIREMENT" TABLE.
2. WHERE REQUIRED, PROVIDE TWO ROWS OF LONGITUDINAL BRACING SIMILAR TO 'DETAIL C'.

DETAIL A - LONGITUDINAL BRACING



DETAIL B - LATERAL BRACING



DETAIL C - LATERAL BRACING

NOTES:

1. SEE GEOTECHNICAL REPORT FOR FOUNDATION TYPE INFORMATION AND MINIMUM PILE EMBEDMENT.
2. PROVIDE MIN CLEARANCE OF 7x BOLT DIAMETER FROM BOLT TO END OF BRACING.
3. WHERE BRACES ARE REQUIRED, BRACE ANGLE TO BE MAXIMIZED UP TO 45°.

SURVEY NOTE:

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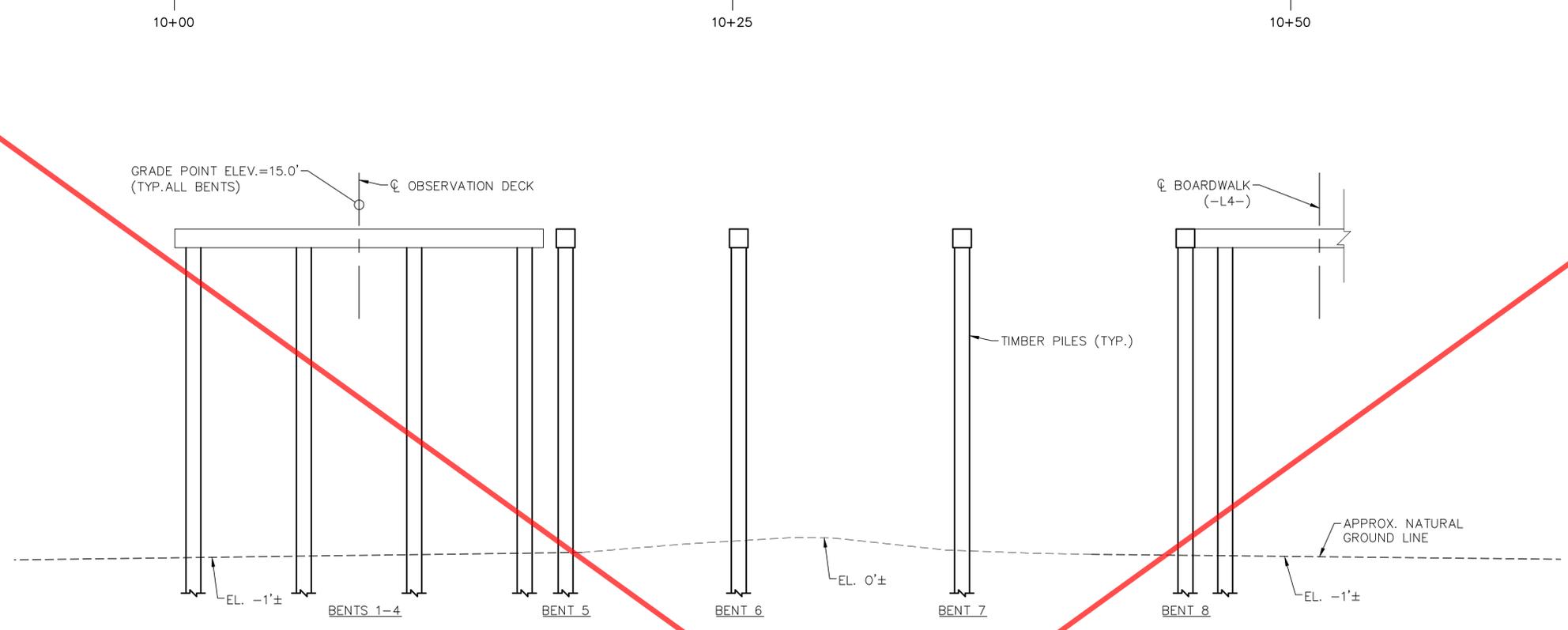
TIMBER BOARDWALK BRACING DETAILS

WILDWOOD PARK - TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE
GREENVILLE NC

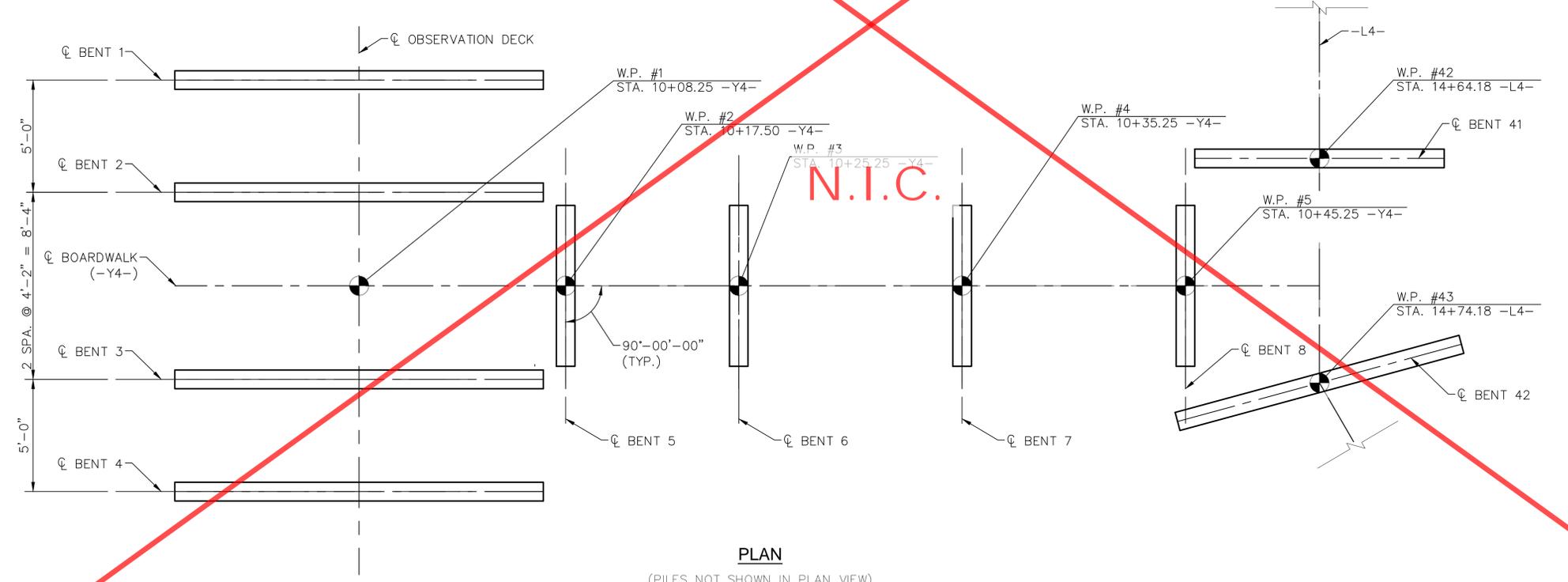


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15
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13
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-1
-2
-3
-4
-5



SECTION ALONG OBSERVATION DECK (-Y4-)
(SECTIONS @ BENTS ARE @ RIGHT ANGLES)
(LONGITUDINAL BRACING NOT SHOWN FOR CLARITY)



PLAN
(PILES NOT SHOWN IN PLAN VIEW)

8	IFC PACKAGE BI	5/17/24	ADC
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OBSERVATION DECK DETAILS

WILDWOOD PARK -
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BID PACKAGE B
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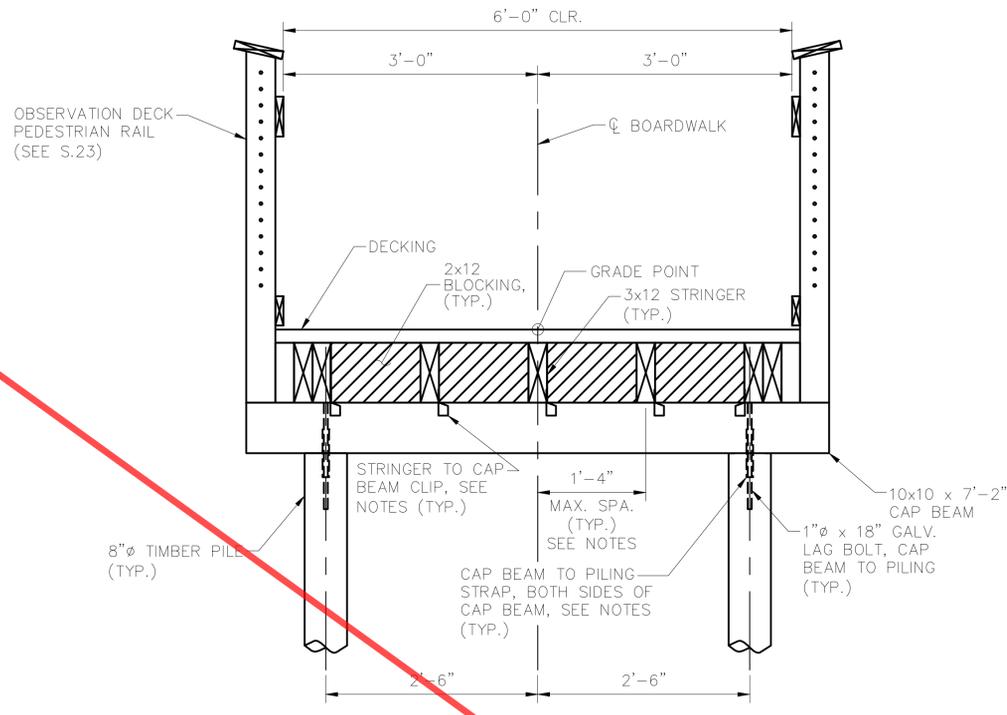


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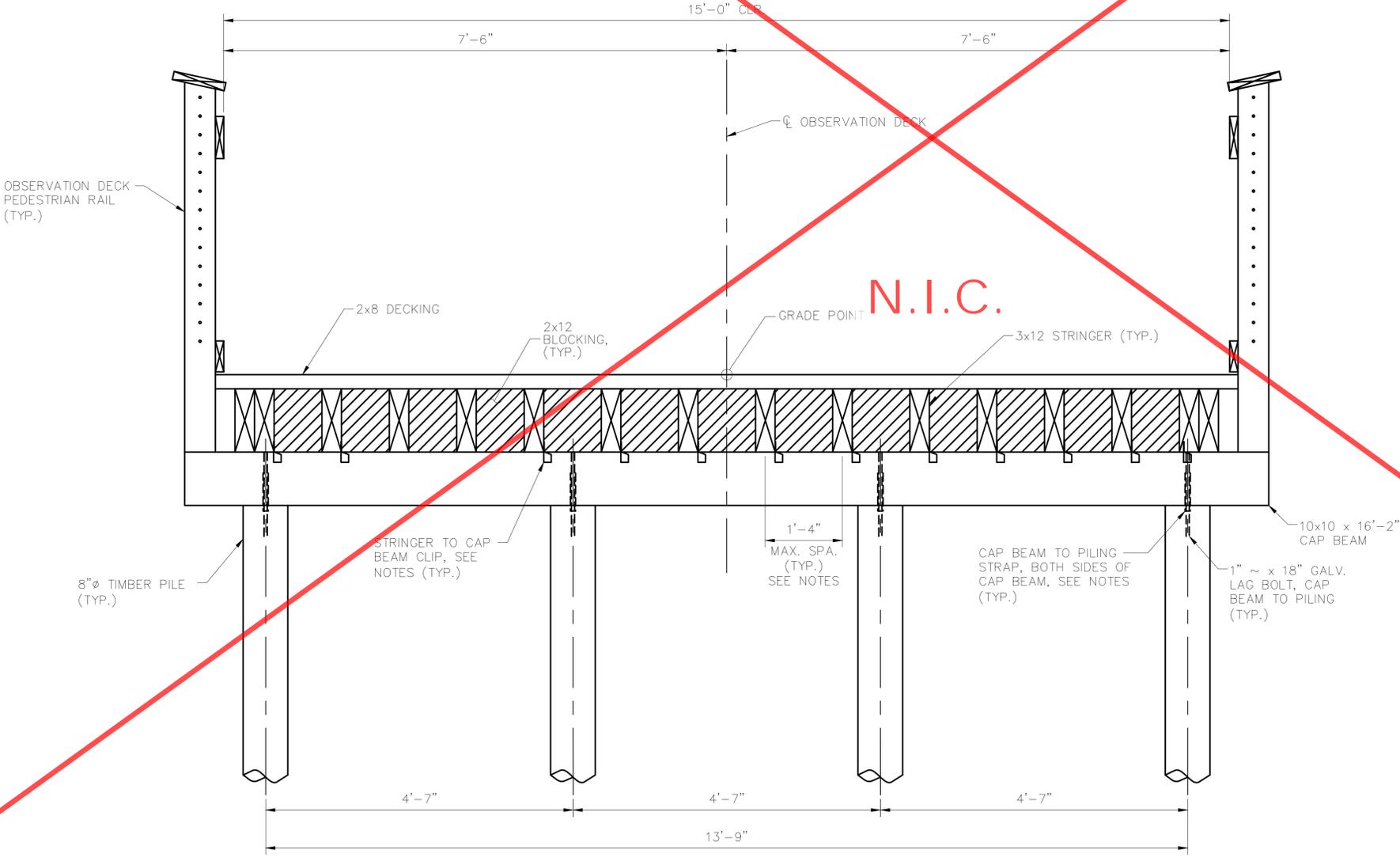


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TIMBER BOARDWALK BENT ELEVATION

BENTS 2 THROUGH 8



TIMBER OBSERVATION DECK BENT ELEVATION

N.I.C.

NOTES

- STRINGER TO CAP BEAM CLIP SHALL BE:
 1. SIMPSON STRONG TIE LTS12
 2. USP TIE RT4
 3. OR APPROVED EQUAL
- CAP BEAM TO PILING STRAP SHALL BE:
 1. SIMPSON MSTA12 FLAT STRAP
 2. USP MSTA12 FLAT STRAP
 3. OR APPROVED EQUAL
- STRINGERS MAY BE SPACED AS NECESSARY, WITHOUT EXCEEDING DECKING SPAN OF 1'-4".
- FOR ANY INDIVIDUAL JOIST SPANS EXCEEDING 10'-0", TWO (2) 3x12 JOISTS SISTERED TOGETHER SHALL BE REQUIRED.

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OBSERVATION DECK DETAILS

WILDWOOD PARK - TOWER AND TRAILS
BID PACKAGE B
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CITY OF GREENVILLE

GREENVILLE NC
SHEET NUMBER
S.16.B

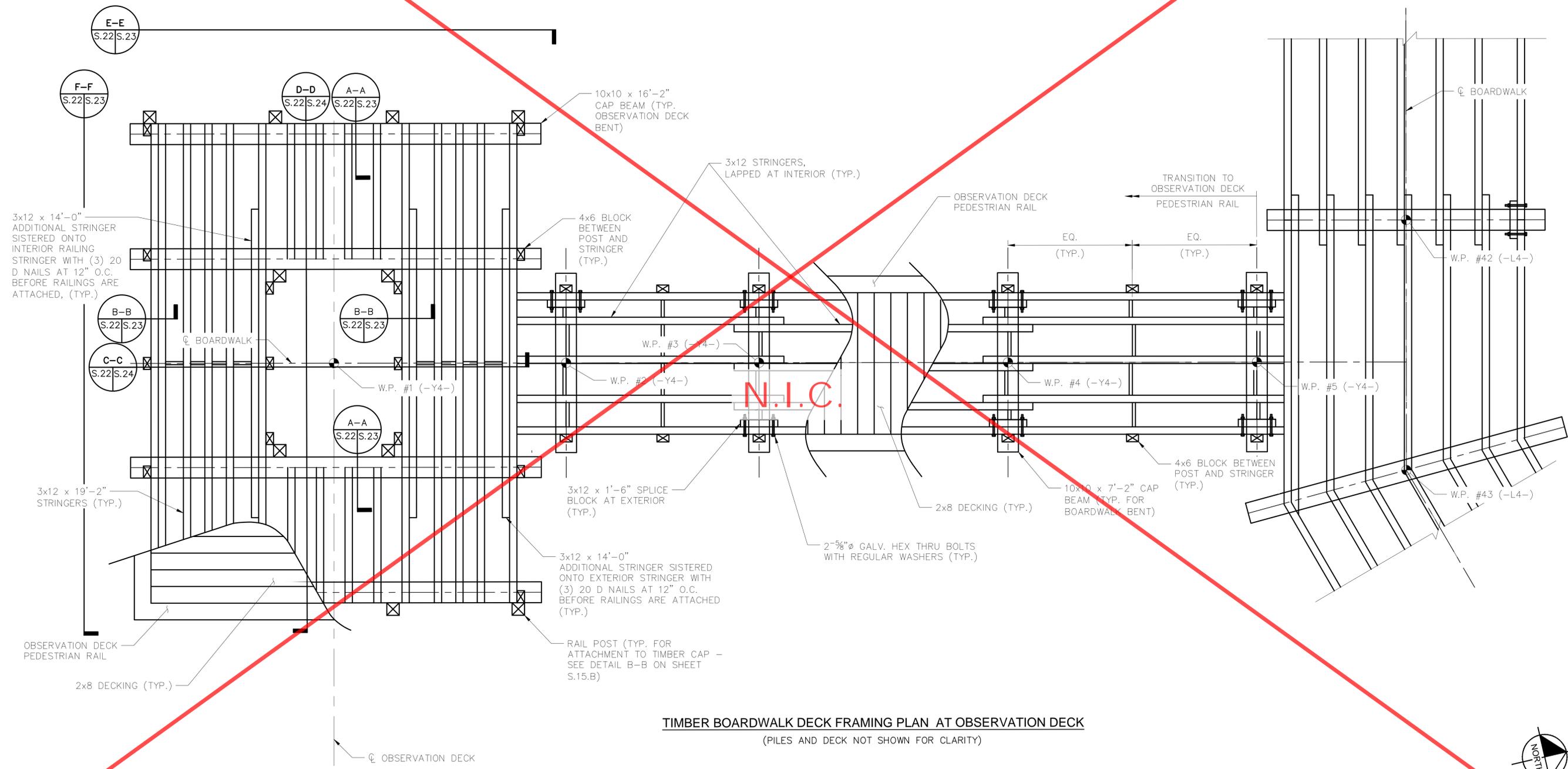
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TIMBER BOARDWALK DECK FRAMING PLAN AT OBSERVATION DECK
(PILES AND DECK NOT SHOWN FOR CLARITY)



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CHECKED BY: MDW
DATE: 5/31/2024

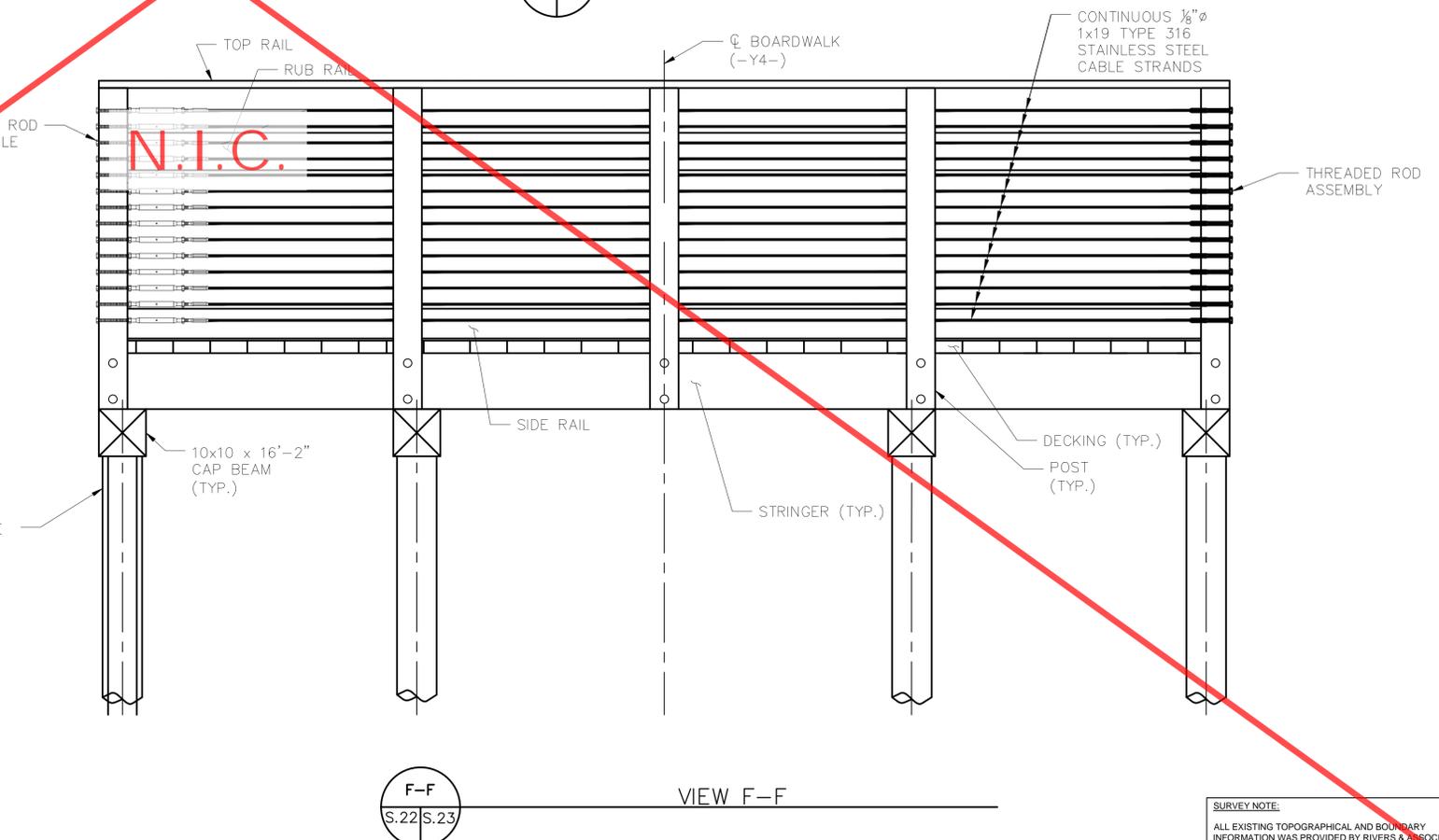
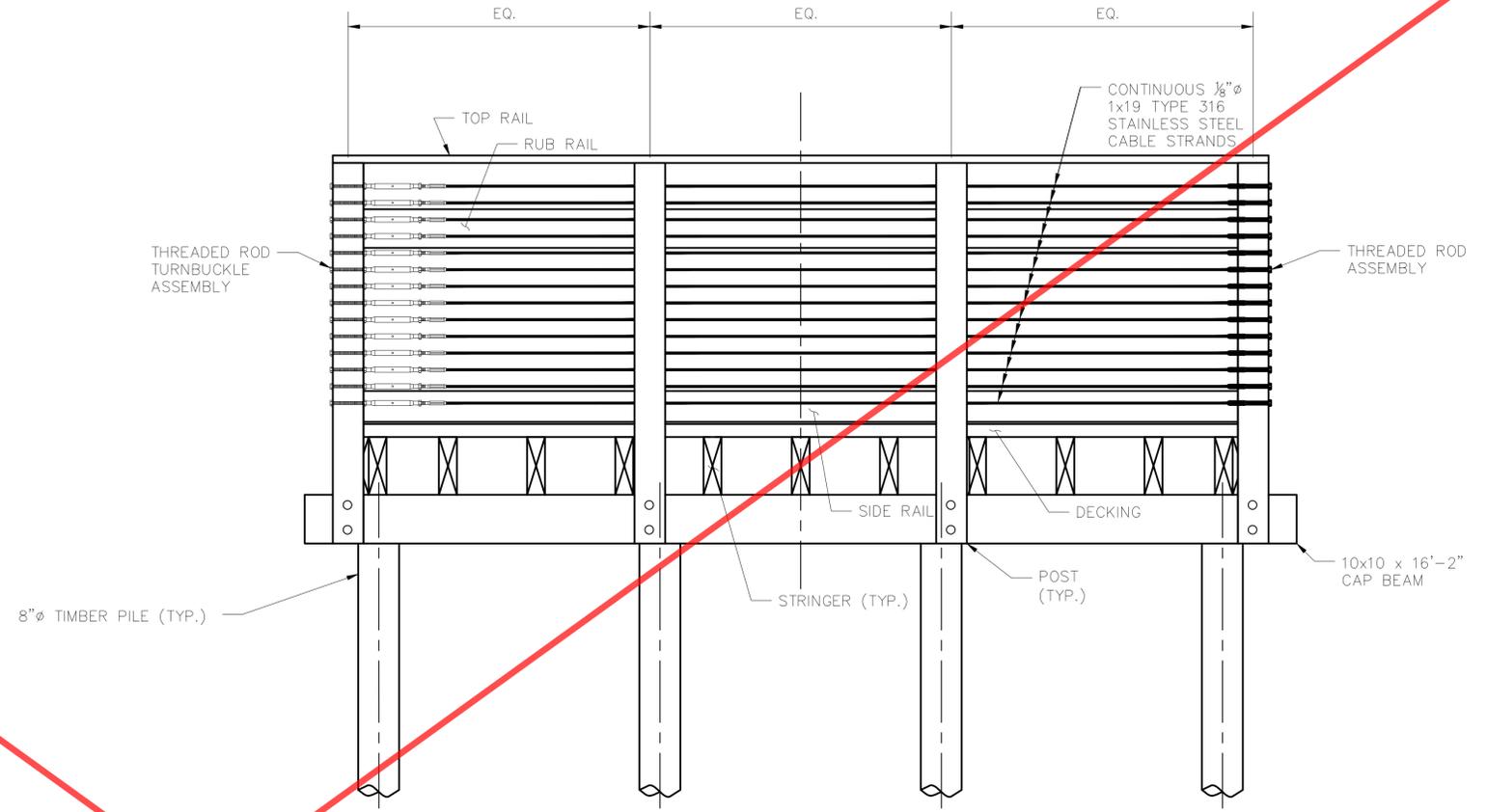
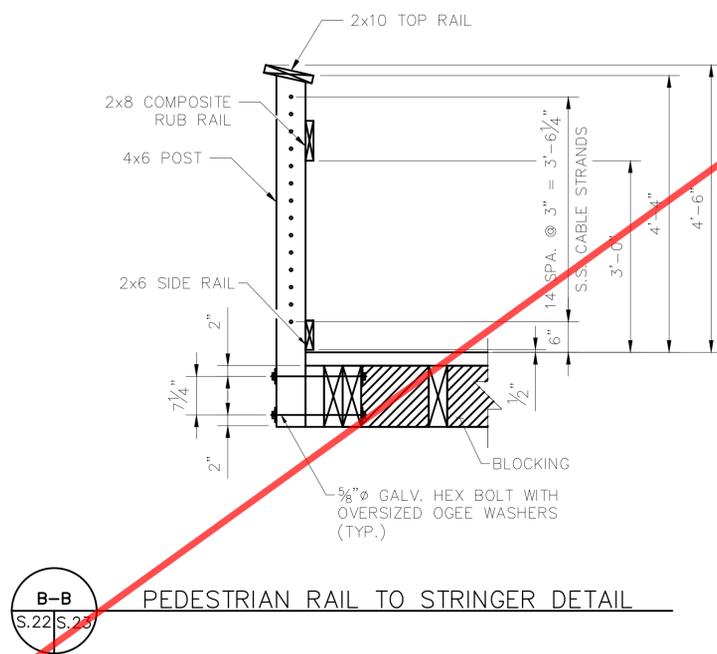
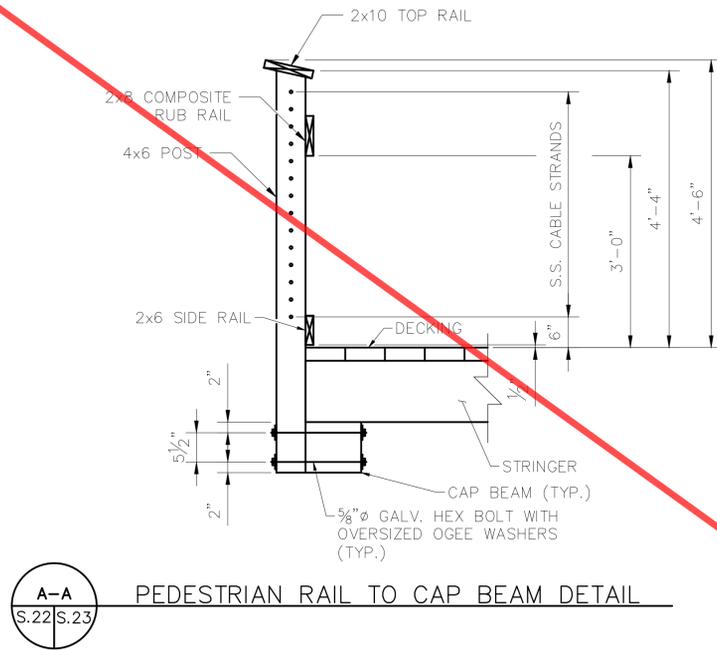
**OBSERVATION DECK
DETAILS**

WILDWOOD PARK -
TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE

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**OBSERVATION DECK
DETAILS**

WILDWOOD PARK -
TOWER AND TRAILS
BID PACKAGE B
PREPARED FOR
CITY OF GREENVILLE

GREENVILLE NC
SHEET NUMBER
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DESIGN DATA:

SPECIFICATIONS - - - - - A.A.S.H.T.O. (CURRENT)
LIVE LOAD - - - - - SEE PLANS
IMPACT ALLOWANCE - - - - - SEE A.A.S.H.T.O.
STRESS IN EXTREME FIBER OF
STRUCTURAL STEEL - AASHTO M270 GRADE 36 - - - 20,000 LBS. PER SQ. IN.
- AASHTO M270 GRADE 50W - - - 27,000 LBS. PER SQ. IN.
- AASHTO M270 GRADE 50 - - - 27,000 LBS. PER SQ. IN.
REINFORCING STEEL IN TENSION - GRADE 60 - - - - 24,000 LBS. PER SQ. IN
CONCRETE IN COMPRESSION - - - - - 1,200 LBS. PER SQ. IN.
CONCRETE IN SHEAR - - - - - SEE A.A.S.H.T.O.
STRUCTURAL TIMBER - TREATED OR UNTREATED
EXTREME FIBER STRESS - - - - 1,800 LBS. PER SQ. IN.
COMPRESSION PERPENDICULAR TO GRAIN OF TIMBER - - 375 LBS. PER SQ. IN.
EQUIVALENT FLUID PRESSURE OF EARTH - - - - - 30 LBS. PER CU. FT. (MINIMUM)

MATERIAL AND WORKMANSHIP:

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2018 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE N. C. DEPARTMENT OF TRANSPORTATION.

STEEL SHEET PILING FOR PERMANENT OR TEMPORARY APPLICATIONS SHALL BE HOT ROLLED.

CONCRETE:

UNLESS OTHERWISE REQUIRED ON PLANS, CLASS A CONCRETE SHALL BE USED FOR ALL PORTIONS OF ALL STRUCTURES WITH THE EXCEPTION THAT: CLASS AA CONCRETE SHALL BE USED IN BRIDGE SUPERSTRUCTURES, ABUTMENT BACKWALLS, AND APPROACH SLABS; AND CLASS B CONCRETE SHALL BE USED FOR SLOPE PROTECTION AND RIP RAP.

CONCRETE CHAMFERS:

UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED 3/4" WITH THE FOLLOWING EXCEPTIONS: TOP CORNERS OF CURBS MAY BE ROUNDED TO 1 1/2" RADIUS WHICH IS BUILT INTO CURB FORMS; CORNERS OF TRANSVERSE FLOOR EXPANSION JOINTS SHALL BE ROUNDED WITH A 1/4" FINISHING TOOL UNLESS OTHERWISE REQUIRED ON PLANS; AND CORNERS OF EXPANSION JOINTS IN THE ROADWAY FACES AND TOPS OF CURBS AND SIDEWALKS SHALL BE ROUNDED TO A 1/4" RADIUS WITH A FINISHING STONE OR TOOL UNLESS OTHERWISE REQUIRED ON PLANS.

DOWELS:

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL BE EMBEDDED AT LEAST 12" INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

STANDARD NOTES

ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT, ETC. IN CASTING SUPERSTRUCTURES:

BRIDGES SHALL BE BUILT ON THE GRADE OR VERTICAL CURVE SHOWN ON PLANS. SLABS, CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE.

ALL DIMENSIONS WHICH ARE GIVEN IN SECTION AND ARE AFFECTED BY DEAD LOAD DEFLECTIONS ARE DIMENSIONS AT CENTER LINE OF BEARING UNLESS OTHERWISE NOTED ON PLANS. IN SETTING FORMS FOR STEEL BEAM BRIDGES AND PRESTRESSED CONCRETE GIRDER BRIDGES, ADJUSTMENTS SHALL BE MADE DUE TO THE DEAD LOAD DEFLECTIONS FOR THE ELEVATIONS SHOWN. WHERE BLOCKS ARE SHOWN OVER BEAMS FOR BUILDING UP TO THE SLAB, THE VERTICAL DIMENSIONS OF THE BLOCKS SHALL BE ADJUSTED BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER. WHERE BOTTOM OF SLAB IS IN LINE WITH BOTTOM OF TOP FLANGES, DEPTH OF SLAB BETWEEN BEARINGS SHALL BE ADJUSTED TO COMPENSATE FOR DEAD LOAD DEFLECTION, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER.

IN SETTING FALSEWORK AND FORMS FOR REINFORCED CONCRETE SPANS, AN ALLOWANCE SHALL BE MADE FOR DEAD LOAD DEFLECTIONS, SETTLEMENT OF FALSEWORK, AND PERMANENT CAMBER WHICH SHALL BE PROVIDED FOR IN ADDITION TO THE ELEVATIONS SHOWN. AFTER REMOVAL OF THE FALSEWORK, THE FINISHED STRUCTURES SHALL CONFORM TO THE PROFILE AND ELEVATIONS SHOWN ON THE PLANS AND CONSTRUCTION ELEVATIONS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR FALSEWORK OR FORMS FOR BRIDGE SUPERSTRUCTURE AND ANY STRUCTURE OR PARTS OF A STRUCTURE AS NOTED ON THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION OF THE FALSEWORK OR FORMS IS STARTED.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE DEFORMED. DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE INDICATED IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE OUT TO OUT AS INDICATED ON PLANS.

WIRE BAR SUPPORTS SHALL BE PROVIDED FOR REINFORCING STEEL WHERE INDICATED ON THE PLANS. WHEN BAR SUPPORT PIECES ARE PLACED IN CONTINUOUS LINES, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING WIRES SHALL BE LAPPED TO LOCK LEGS ON ADJOINING PIECES.

STRUCTURAL STEEL:

AT THE CONTRACTOR'S OPTION, HE MAY SUBSTITUTE 7/8"Ø SHEAR STUDS FOR THE 3/4"Ø STUDS SPECIFIED ON THE PLANS. THIS SUBSTITUTION SHALL BE MADE AT THE RATE OF 3 - 7/8"Ø STUDS FOR 4 - 3/4"Ø STUDS, AND STUD SPACING CHANGES SHALL BE MADE AS NECESSARY TO PROVIDE THE SAME EQUIVALENT NUMBER OF 7/8"Ø STUDS ALONG THE BEAM AS SHOWN FOR 3/4"Ø STUDS BASED ON THE RATIO OF 3 - 7/8"Ø STUDS FOR 4 - 3/4"Ø STUDS. STUDS OF THE LENGTH SPECIFIED ON THE PLANS MUST BE PROVIDED. THE MAXIMUM SPACING SHALL BE 2'-0".

EXCEPT AT THE INTERIOR SUPPORTS OF CONTINUOUS BEAMS WHERE THE COVER PLATE IS IN CONTACT WITH BEARING PLATE, THE CONTRACTOR MAY, AT HIS OPTION, SUBSTITUTE FOR THE COVER PLATES DESIGNATED ON THE PLANS COVER PLATES OF THE EQUIVALENT AREA PROVIDED THESE PLATES ARE AT LEAST 3/16" IN THICKNESS AND DO NOT EXCEED A WIDTH EQUAL TO THE FLANGE WIDTH LESS 2" OR A THICKNESS EQUAL TO 2 TIMES THE FLANGE THICKNESS. THE SIZE OF FILLET WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ANSI/AASHTO/AWS " BRIDGE WELDING CODE". ELECTROSLAG WELDING WILL NOT BE PERMITTED.

WITH THE SOLE EXCEPTION OF EDGES AT SURFACES WHICH BEAR ON OTHER SURFACES, ALL SHARP EDGES AND ENDS OF SHAPES AND PLATES SHALL BE SLIGHTLY ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 1/8" OR EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE PRIOR TO PAINTING, GALVANIZING, OR METALLIZING.

HANDRAILS AND POSTS:

METAL STANDARDS AND FACES OF THE CONCRETE END POSTS FOR THE METAL RAIL SHALL BE SET NORMAL TO THE GRADE OF THE CURB, UNLESS OTHERWISE SHOWN ON PLANS. THE METAL RAIL AND TOPS OF CONCRETE POSTS USED WITH THE ALUMINUM RAIL SHALL BE BUILT PARALLEL TO THE GRADE OF THE CURB.

METAL HANDRAILS SHALL BE IN ACCORDANCE WITH THE PLANS. RAILS SHALL BE AS MANUFACTURED FOR BRIDGE RAILING. CASTINGS SHALL BE OF A UNIFORM APPEARANCE. FINIS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE OBTAINED. CASTINGS WITH DISCOLORATIONS OR OF NON-UNIFORM COLORING WILL NOT BE ACCEPTED. CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

SPECIAL NOTES:

GENERALLY, IN CASE OF DISCREPANCY, THIS STANDARD SHEET OF NOTES SHALL GOVERN OVER THE SPECIFICATIONS, BUT THE REMAINDER OF THE PLANS SHALL GOVERN OVER NOTES HEREON, AND SPECIAL PROVISIONS SHALL GOVERN OVER ALL. SEE SPECIFICATIONS ARTICLE 105-4.

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Table with project details: KHA PROJECT 012654010, DATE 1/31/2024, SCALE AS SHOWN, DESIGNED BY BMK, DRAWN BY JJK, CHECKED BY MDW.

STRUCTURAL STANDARD NOTES

WILDWOOD PARK - TOWER AND TRAILS BID PACKAGE B PREPARED FOR CITY OF GREENVILLE GREENVILLE NC

SHEET NUMBER S.20.B

Plotted By: Cullinan, Alex Sheet Set: WILDWOOD PARK - OBSERVATION TOWER AND TRAILS - BID PACKAGE B Layout: S.20.B STRUCTURAL STANDARD NOTES May 15, 2024 03:35:42pm \\kimley-horn.com\CL\RALLY\24\LDVV\012654010_Wildwood-Park-Walkway-Tower-Planning-Phase\PI0_CAD Files\PlanSheets\Bid Package B\B1\17B