

MARCH 1, 2024



TITLE/GENERAL	
C0.0	COVER

SITE — CIVIL ENGINEERING & LANDSCAPE ARCHITECTURE	
L0.0	COMPOSITE PLAN
L0.1	DEMOLITION, TREE PROTECTION, PLAN (WEST)
L0.2	DEMOLITION, TREE PROTECTION, PLAN (EAST)
L1.0	SITE PLAN (WEST)
L1.1	SITE PLAN (EAST)
L1.2	LAYOUT PLAN (WEST)
L1.3	LAYOUT PLAN (EAST)
L2.0	GRADING, DRAINAGE & EC PLAN (WEST)
L2.1	GRADING, DRAINAGE & EC PLAN (EAST)
L2.2	GRADING & DRAINAGE ENLARGEMENT
L2.3	NGG01 CONSTRUCTION SEQUENCE, GRADING & EC NOTES
L2.4	NGG01 SELF-INSPECTION, RECORDKEEPING & REPORTING
L2.5	NGG01 GROUND STABILIZATION & MATERIALS HANDLING
L2.6	TREE PROTECTION, EC AND DRAINAGE DETAILS
L4.0	PLANTING PLAN (WEST)
L4.1	PLANTING PLAN (EAST)
L5.0	ALTERNATES
L6.0	SITE DETAILS
C3.0	COMPOSITE UTILITY PLAN
C3.1	SEPTIC FIELD PLAN (FORCE MAIN)
C3.2	UTILITY DETAILS (FORCE MAIN)
C3.3	UTILITY DETAILS (WATER)

SITE — ELECTRICAL	
E0.1	ELECTRICAL LEAD SHEET
E1.1	ELECTRICAL SITE POWER & LIGHTING PLAN
E1.2	ELECTRICAL PANEL SCHEDULES, ONE LINE DIAGRAM & DETAILS
E1.3	ELECTRICAL DETAILS
E1.4	ELECTRICAL EQUIPMENT RACK & DETAILS

BUILDING — ARCHITECTURE	
BSC1	BUILDING CODE SUMMARY
A1	FLOOR PLAN & SCHEDULES
A2	REFLECTED CEILING PLAN & ROOF PLAN
A3	EXTERIOR ELEVATIONS
A4	SECTIONS

BUILDING — PLUMBING, MECHANICAL & ELECTRICAL	
P101	WASTE PLAN AND RISER DETAILS
P102	WATER PLAN & SCHEDULES, NOTES
M101	MECHANICAL PLAN
E101	POWER PLAN
E102	LIGHTING PLAN



OWNER / DEVELOPER
CITY OF GREENVILLE RECREATION & PARKS
PO BOX 7207
GREENVILLE, NC 27858
CONTACT: MARK NOTTINGHAM, PARKS PLANNER
252-329-4242
mnottingham@greenvillenc.gov



SITE DATA		
(a)	TOTAL AREA IN SITE	101.36 ACRES
(b)	TOTAL AREA DISTURBED	3.9 AC. (166,767 SF)
(c)	CURRENT ZONING	CH
LAND USE CLASSIFICATION		2- PUBLIC PARK
(d)	SUBDIVISION NAME, BLOCK & LOT	N/A
	TAX MAP AND PARCEL NUMBER	86710
STREET ADDRESS		3450 BLUE HERON DR.
(e)	ACREAGE IN COMMON AREA	N/A
(f)	ACREAGE IN RECREATION AREA	N/A
(g)	TOTAL NUMBER OF UNITS / BEDROOMS	N/A
(h)	GROSS FLOOR AREA	192.50 SF
(i)	BUILDING LOT COVERAGE (EXISTING FOR ENTIRE SITE)	29,342 SF
	BUILDING LOT COVERAGE (EXISTING FOR PROJECT LIMITS)	0 SF
	BUILDING LOT COVERAGE (PROPOSED RESTROOM)	192.50 SF
(j)	BUILDING HEIGHT (FEET & STORIES)	12 FT / 1 STORY
(k)	TOTAL NUMBER OF PARKING SPACES REQUIRED FOR RECREATIONAL USE	40
	TOTAL NUMBER OF PARKING SPACES (EXISTING GRAVEL)	0
	TOTAL NUMBER OF PARKING SPACES PROVIDED	52
(l)	TOTAL NUMBER OF ACCESSIBLE PARKING SPACES (EXISTING)	0
	TOTAL NUMBER OF ACCESSIBLE PARKING SPACES (REQUIRED)	3
(m)	TOTAL SQUARE FEET OF IMPERVIOUS AREA (EXISTING WITHIN LOD)	11,560 SF
	TOTAL SQUARE FEET OF IMPERVIOUS AREA (PROPOSED WITHIN LOD)	43,565 SF

CITY OF GREENVILLE SITE PLAN APPROVAL	
DATE _____	
☐ Approved Noted _____	☐ Approved as _____
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/Landscape Architect/Surveyor shall be responsible for adequacy of design, errors, omissions in the plans. All plans shall meet all specifications, standards and applicable regulations.	

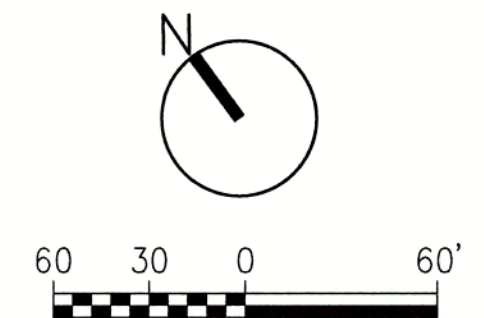
PARKING REQUIREMENTS PER ARTICLE O, CITY OF GREENVILLE, NC ZONING REGULATIONS:

COMMERCIAL RECREATION (OUTDOOR): 1 SPACE / 3 CUSTOMARY UNITS OF MEASUREMENT FOR THE PARTICULAR USE
9,000 SF OF PLAY AREA
PLUS 10 SPACES FOR WAITING = 40**
PLUS 1 SPACE / EMPLOYEE = 0***
40

* STANDARD SET BY NATURAL RESOURCE CENTER FOR HEALTH AND SAFETY IN CHILD CARE AND EARLY EDUCATION (NRC) SUGGESTS MAXIMUM PLAYGROUND OCCUPANCY RATE OF 1 CHILD / 75 SF.
([HTTPS:// NRCKIDS.ORG/CFOC/DATABASE/6](https://nrckids.org/cfoc/database/6))

** 9,000 SF PLAY AREA / 75 SF = 120 UNITS
120 UNITS / 3 = 40

*** WAIVED BASED UPON PUBLIC PLAYGROUND USE.

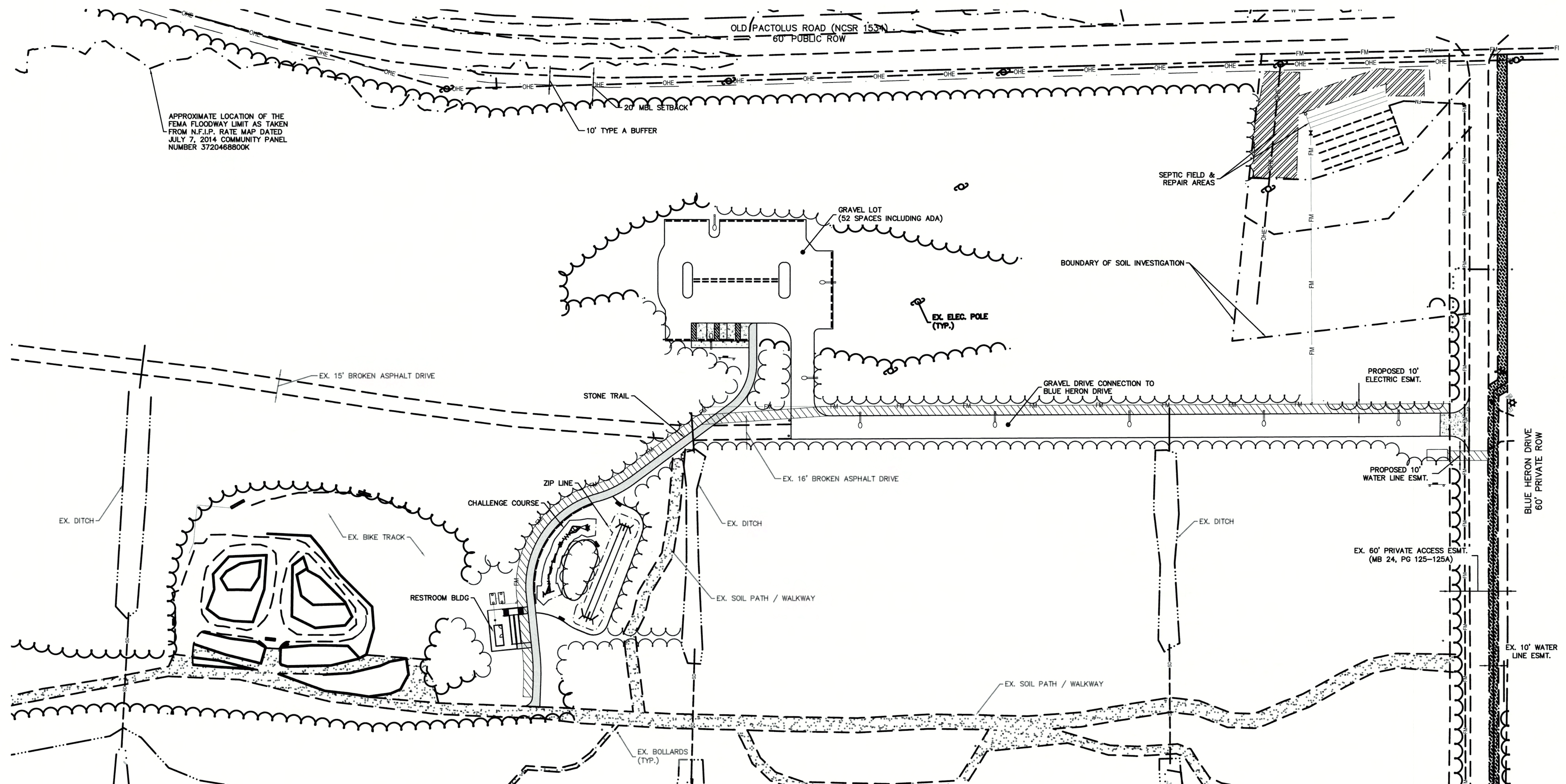


<u>OVERALL LEGEND:</u>	
	EXISTING LIGHT POLE
-- FM --	EXISTING FORCE MAIN
	EXISTING UTILITY POLE
	EXISTING WATER HYDRANT
-- W --	EXISTING WATER LINE
	EXISTING WATER VALVE
-- ONE --	OVERHEAD ELECTRIC
	REVISED SEPTIC AREAS
TEL	TELEPHONE STRUCTURE
T	TRANSFORMER

STATE OF NORTH CAROLINA PITT COUNTY

I, WILLIAM B. HILLIARD, CERTIFY THAT THIS
PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL
SURVEY MADE UNDER MY SUPERVISION; (DEED DESCRIPTION
RECORDED IN BOOK PAGE), THAT THE RATIO
OF PRECISION AS CALCULATED IS 1:10,000; THAT THIS PLAT
WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF
PRACTICE. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION
NUMBER AND SEAL THIS DAY OF , 20 .

L - 4509



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Fax 919.784.9331

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NC Architectural License No. 50213
NC Landscape Architectural License
No. C-427

[illegible]

EG PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE



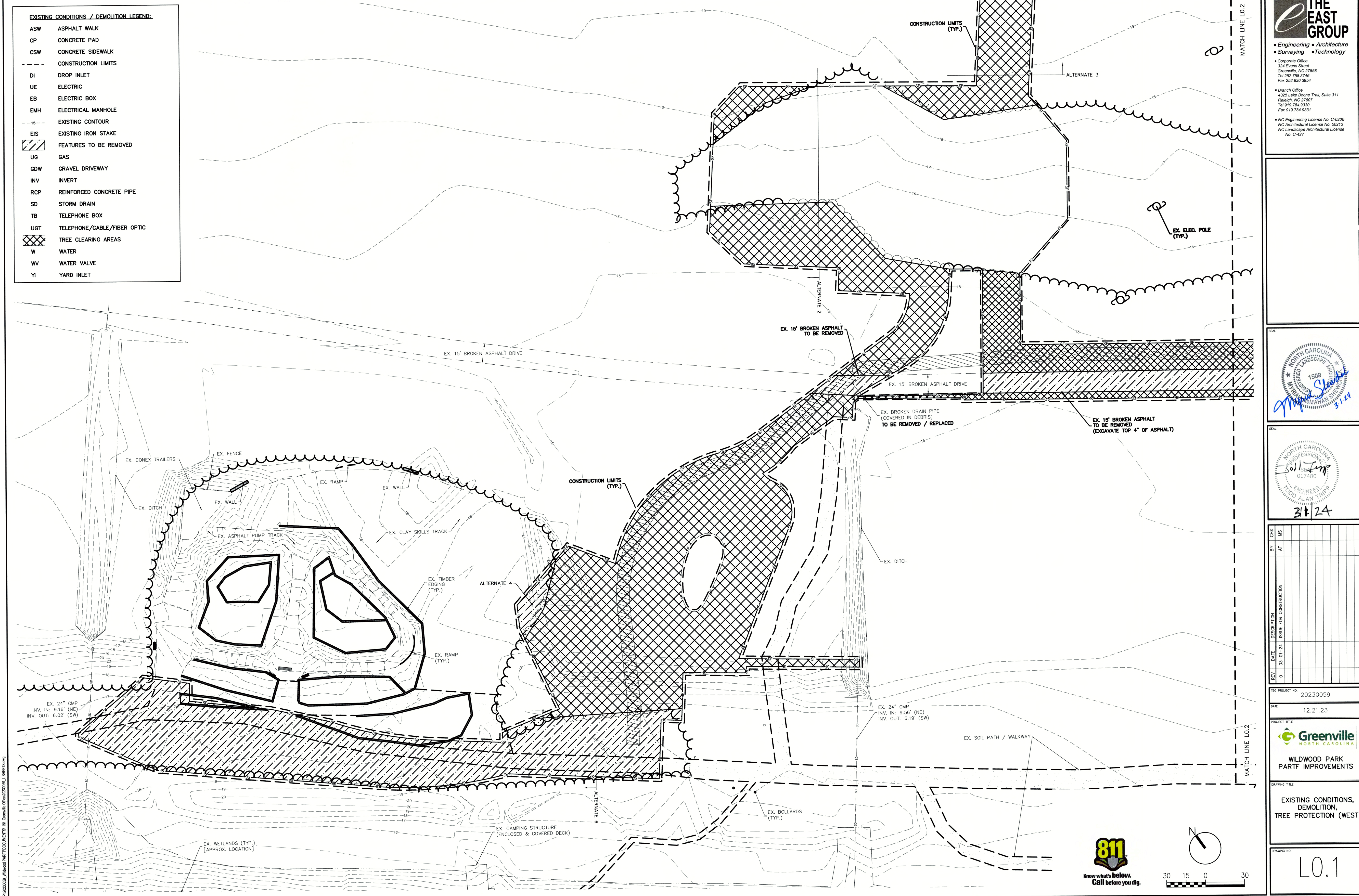
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

COMPOSITE PLAN

DRAWING NO.

0.0



H:\P\20230059 - Wildwood Park Part I Improvements.dwg, J:\Greenville Office\20230059 - L1 SHEETS.dwg

EXISTING CONDITIONS / DEMOLITION LEGEND:

- ASW ASPHALT WALK
- CP CONCRETE PAD
- CSW CONCRETE SIDEWALK
- CONSTRUCTION LIMITS
- DI DROP INLET
- UE ELECTRIC
- EB ELECTRIC BOX
- EMH ELECTRICAL MANHOLE
- - - - EXISTING CONTOUR
- EIS EXISTING IRON STAKE
- [Hatched Box] FEATURES TO BE REMOVED
- UG GAS
- GDW GRAVEL DRIVEWAY
- INV INVERT
- RCP REINFORCED CONCRETE PIPE
- SD STORM DRAIN
- TB TELEPHONE BOX
- UGT TELEPHONE/CABLE/FIBER OPTIC
- [Cross-hatched Box] TREE CLEARING AREAS
- W WATER
- WV WATER VALVE
- YI YARD INLET

THE EAST GROUP

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SEAL

SEAL

REV	DATE	DESCRIPTION	BY	CHK	MS
0	03-01-24	ISSUE FOR CONSTRUCTION	AF		

TED PROJECT NO. 20230059

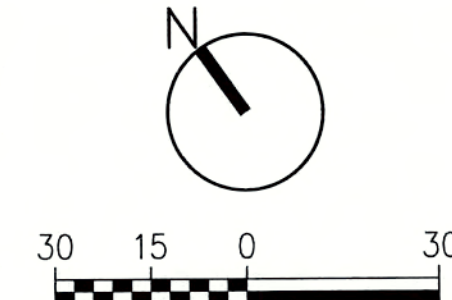
DATE: 12.21.23

Greenville
NORTH CAROLINA

WILDWOOD PARK
PART I IMPROVEMENTS

DRAWING TITLE
EXISTING CONDITIONS,
DEMOLITION,
TREE PROTECTION (WEST)

DRAWING NO.
L0.1



GENERAL NOTES:

1. SITE SHALL MEET ALL RELATED ACCESSIBILITY REQUIREMENTS.
2. ACCESSIBLE ROUTE IS PROPOSED FROM ACCESSIBLE PARKING SPACES TO RESTROOM AND PLAYGROUND.
3. NO WATERBODIES SUBJECT TO TAR PAM/LICO BUFFER RULES EXIST WITHIN THE DISTURBED LIMITS OF THE PROJECT AREA.
4. THIS PROJECT DOES NOT DISTURB WETLANDS.
5. THIS PROJECT DISTURBS MORE THAN 1-ACRE AND WILL REQUIRE A SOIL EROSION AND SEDIMENTATION CONTROL PERMIT.
6. THIS PROJECT DOES NOT INCREASE THE RATE OF RUNOFF MORE THAN 10%. A CITY OF GREENVILLE STORMWATER PERMIT IS NOT INCLUDED OR ANTICIPATED TO BE NEEDED.
7. CITY OR NCDOT DRIVEWAY PERMIT IS REQUIRED FOR THIS PROJECT. ANY ENCROACHMENT AGREEMENTS SHALL BE APPROVED BEFORE INSTALLATION.
8. ANY UNUSED DRIVEWAY MUST BE CLOSED IN ACCORDANCE WITH THE CITY OF GREENVILLE'S DRIVEWAY ORDINANCE.
9. 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.
10. ALL REQUIRED IMPROVEMENTS SHALL CONFORM TO THE 2023 CITY OF GREENVILLE MANUAL OF STANDARD DESIGNS AND DETAILS (MSDD).
11. CONTRACTOR SHALL NOTIFY CITY OF GREENVILLE ENGINEERING DEPARTMENT AT 252-329-4888, 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING STORM DRAINS LOCATED WITHIN PUBIC STORM DRAINAGE EASEMENTS OR RIGHT-OF-WAY.
12. THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. THIS PROPERTY IS LOCATED IN ZONE(S) 4E, AS SHOWN ON FIRM PANEL NUMBER 3720468800K, COMMUNITY NUMBER 370191, INDEX DATE 7/7/14 (BFE= 20.4).

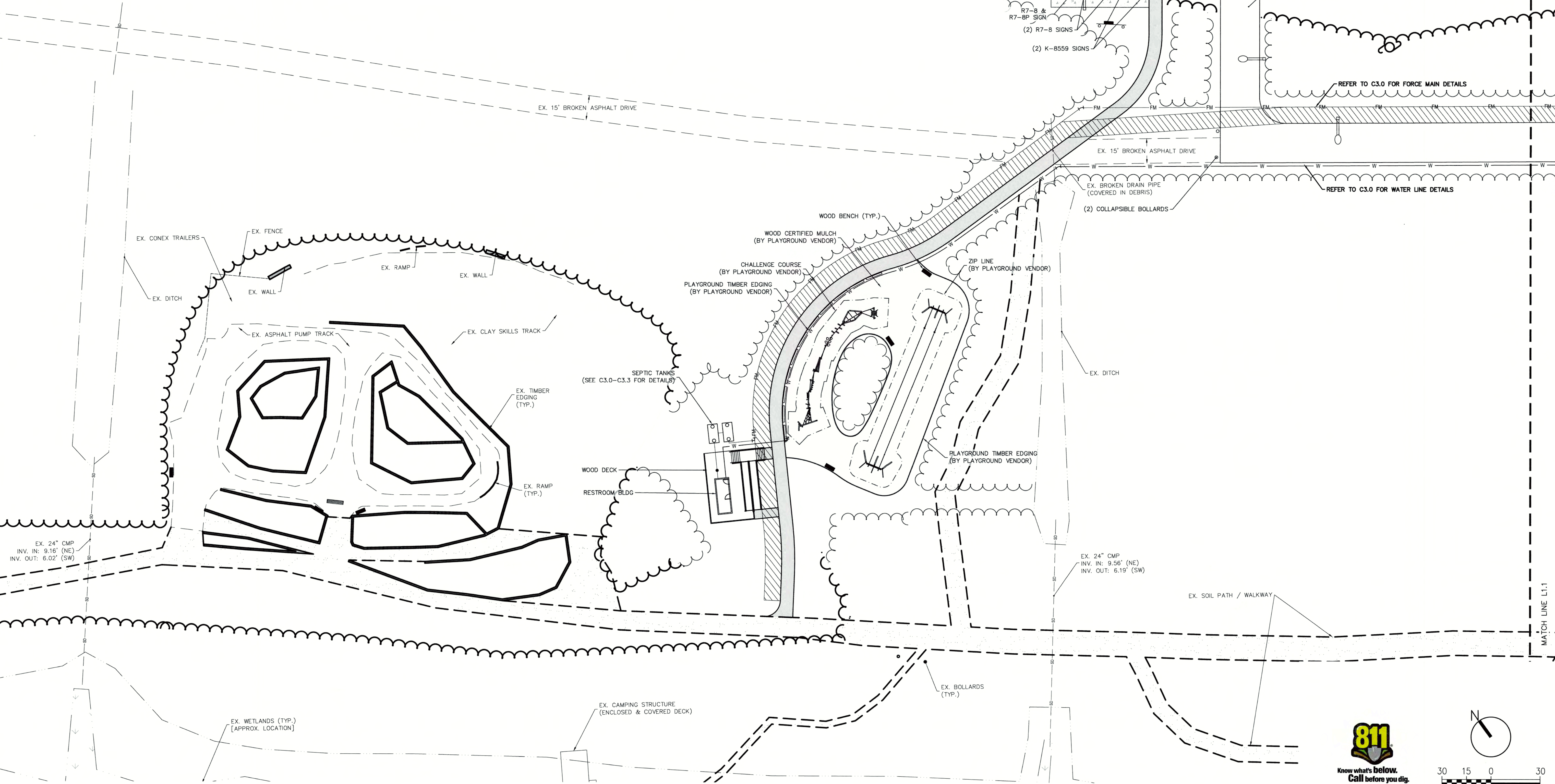
13. LANE CLOSURES ON THOROUGHFARE ROADS ARE ONLY PERMITTED BETWEEN THE HOURS OF 9:00AM AND 4:00PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE TRAFFIC ENGINEER. IN ADDITION, THERE WILL BE NO LANE CLOSURES ON HOLIDAYS INCLUDING THE DAY BEFORE OR AFTER SAID HOLIDAY. A TRAFFIC CONTROL PLAN 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.
14. ALL SITE LIGHTING SHALL COMPLY WITH THE LIGHTING STANDARDS FOR THE CITY OF GREENVILLE.
15. CONTACT CITY OF GREENVILLE ENGINEERING DEPARTMENT AT 252-329-4888 FOR PRE-POUR INSPECTION PRIOR TO POURING CONCRETE IN RIGHT OF WAY.
16. REFUSE COLLECTION METHOD: PUBLIC SERVICE. CARDBOARD IS NOT ACCEPTED BY THE LANDFILL.

CARDBOARD (RECYCLE) CONTAINER SITES (PADS) OR OTHER OUTSIDE STORAGE/STACKING (RECYCLE) AREAS SHALL BE LOCATED.

RESIDENTIAL: PUBLIC SERVICE REQUIRED PER TITLE 6, CHAPTER 3 OF THE CITY CODE.

NON-RESIDENTIAL: PRIVATE SERVICE ONLY. THE APPLICANT SHALL, AT THE TIME OF APPLICATION, SPECIFY THE METHOD OF PRIVATE REFUSE DISPOSAL. SERVICEABLE CONTAINER SITES (PADS) SHALL BE LOCATED FOR IMMEDIATE OR FUTURE USE REGARDLESS OF THE DISPOSAL OPTION.

THE LOCATION(S) AND DESIGN DETAILS FOR SUCH CONTAINER SITES (PADS) SHALL BE APPROVED BY THE CITY ENGINEER IN ACCORDANCE WITH THE MANUAL OF STANDARDS, DESIGNS AND DETAILS.
17. UNLESS SHOWN HEREON, NO ENCROACHMENT OF ANY TYPE, INCLUDING CLEARING, FILLING, EXCAVATION, GRADING, NEW CONSTRUCTION, SUBSTANTIAL IMPROVEMENTS, OR OTHER TYPES OF DEVELOPMENT ARE PERMITTED IN THE FLOODWAY AS DENOTED ON THIS PLAN UNLESS A "NO-RISE CERTIFICATION" IS PROVIDED IN ACCORDANCE WITH THE FLOOD DAMAGE PREVENTION ORDINANCE.
18. NEW BUILDINGS MUST COMPLY WITH NC FIRE CODE SECTION 510 - EMERGENCY RESPONDER RADIO COVERAGE.
19. SEE ELECTRICAL SHEETS FOR ELECTRICAL COORDINATION.



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REG. PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE



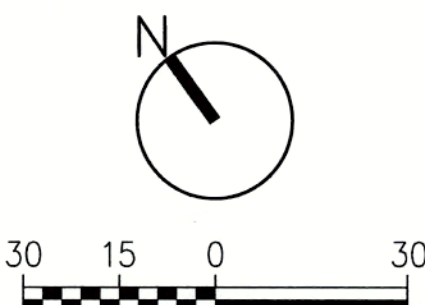
WILDWOOD PARK
PART I IMPROVEMENTS

DRAWING TITLE

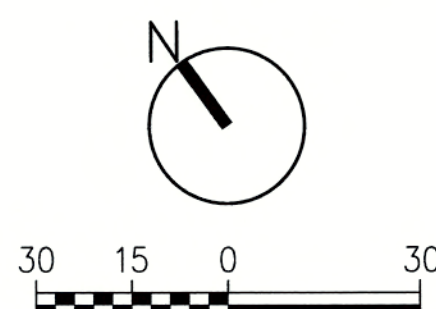
SITE PLAN (WEST)

DRAWING NO.

L1.0

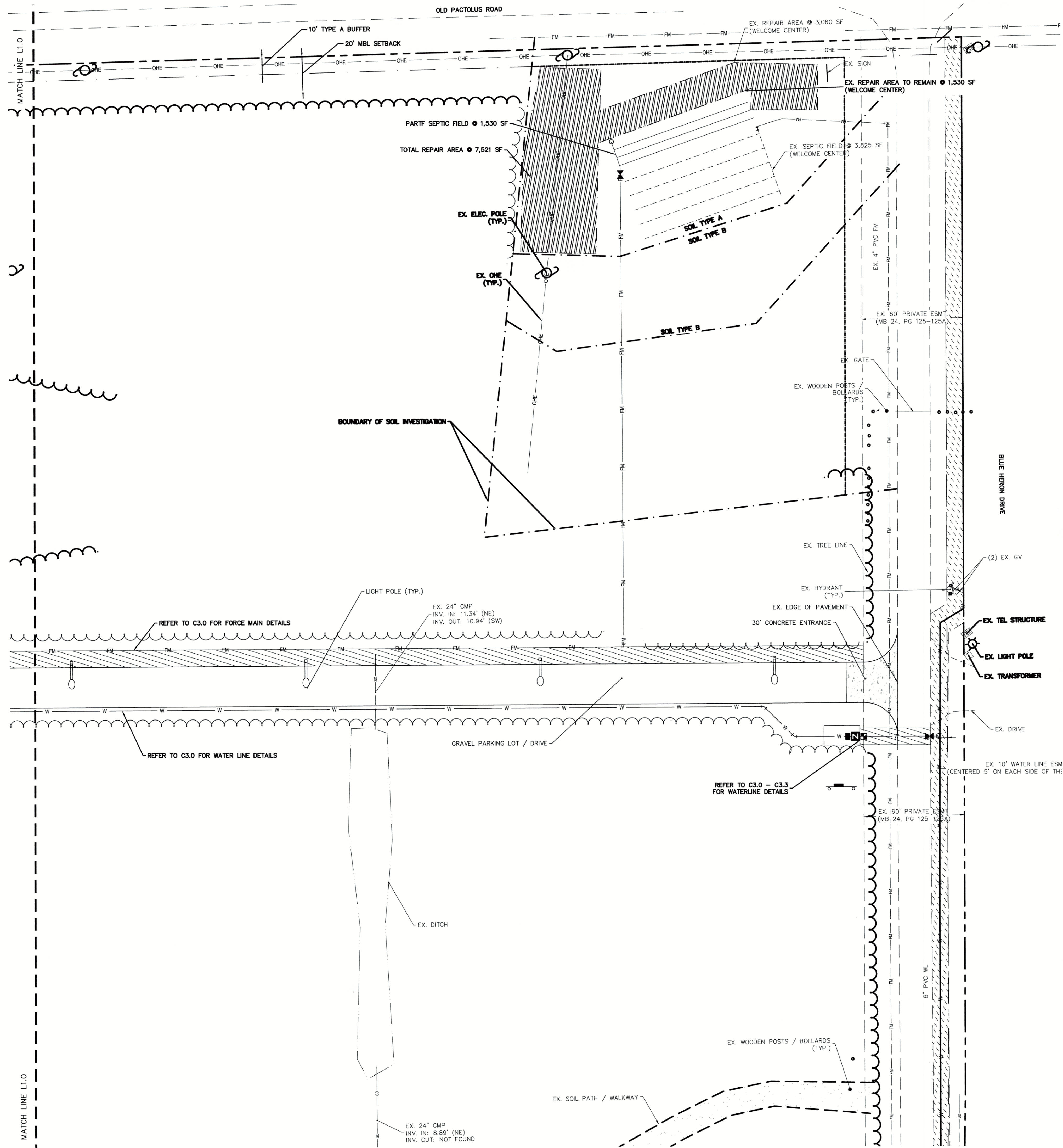


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LEGEND:

ADDITIONAL REPAIR AREA (SEPTIC)

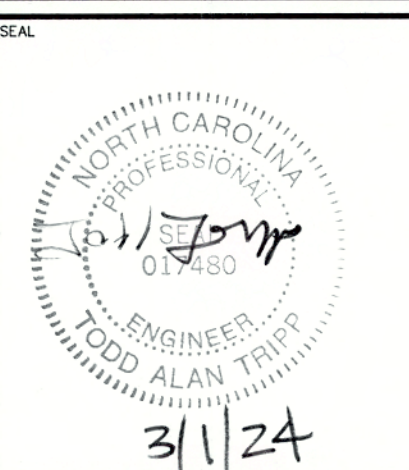


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TGS PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE



WILDWOOD PARK
PARTI IMPROVEMENTS

DRAWING TITLE

SITE PLAN (EAST)

DRAWING NO.

L1.1

[illegible]

PROJECT NO. 20230059

DATE: 12.21.23

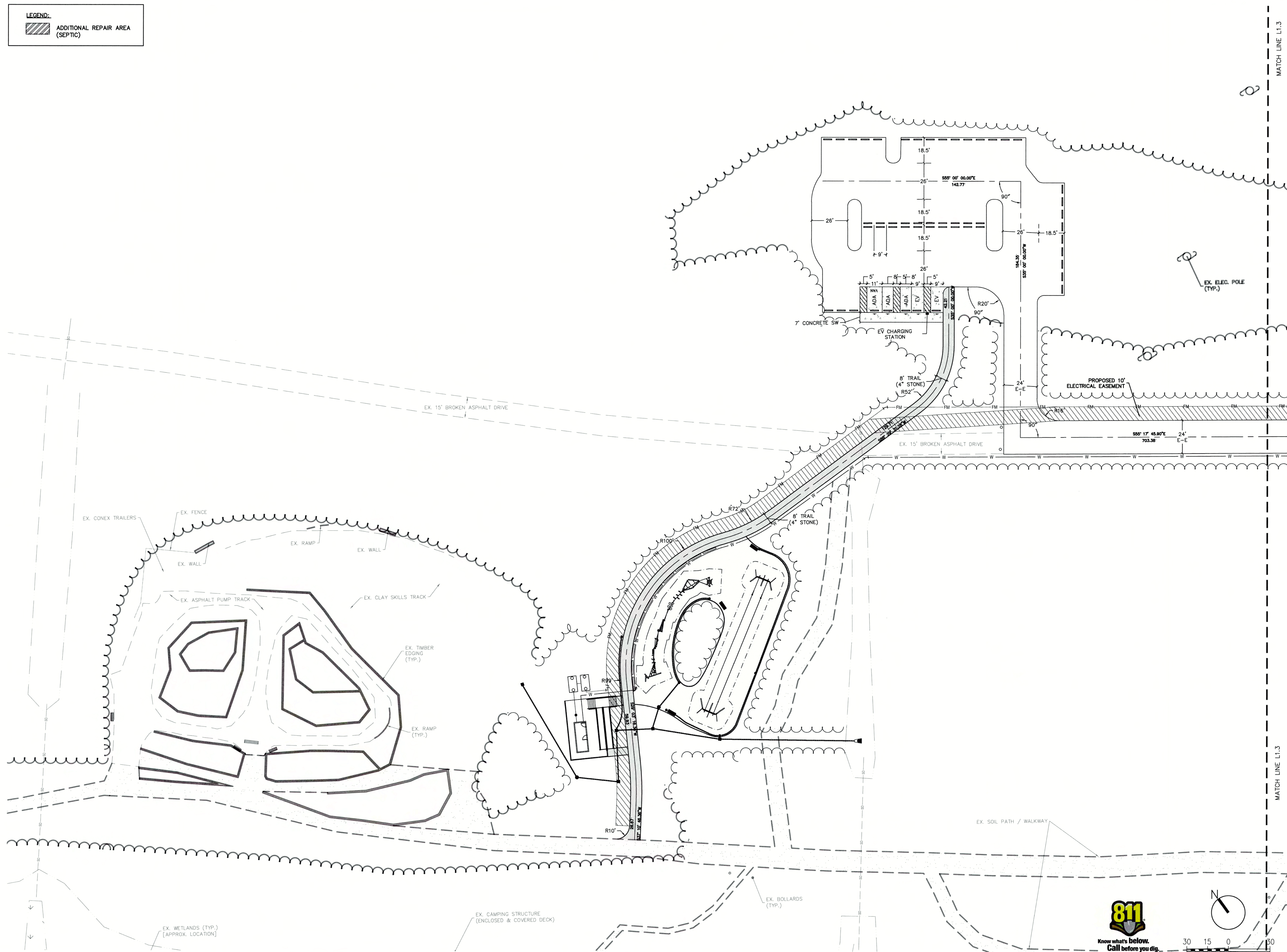


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LAYOUT PLAN (WEST)

DRAWING NO.

L1.2

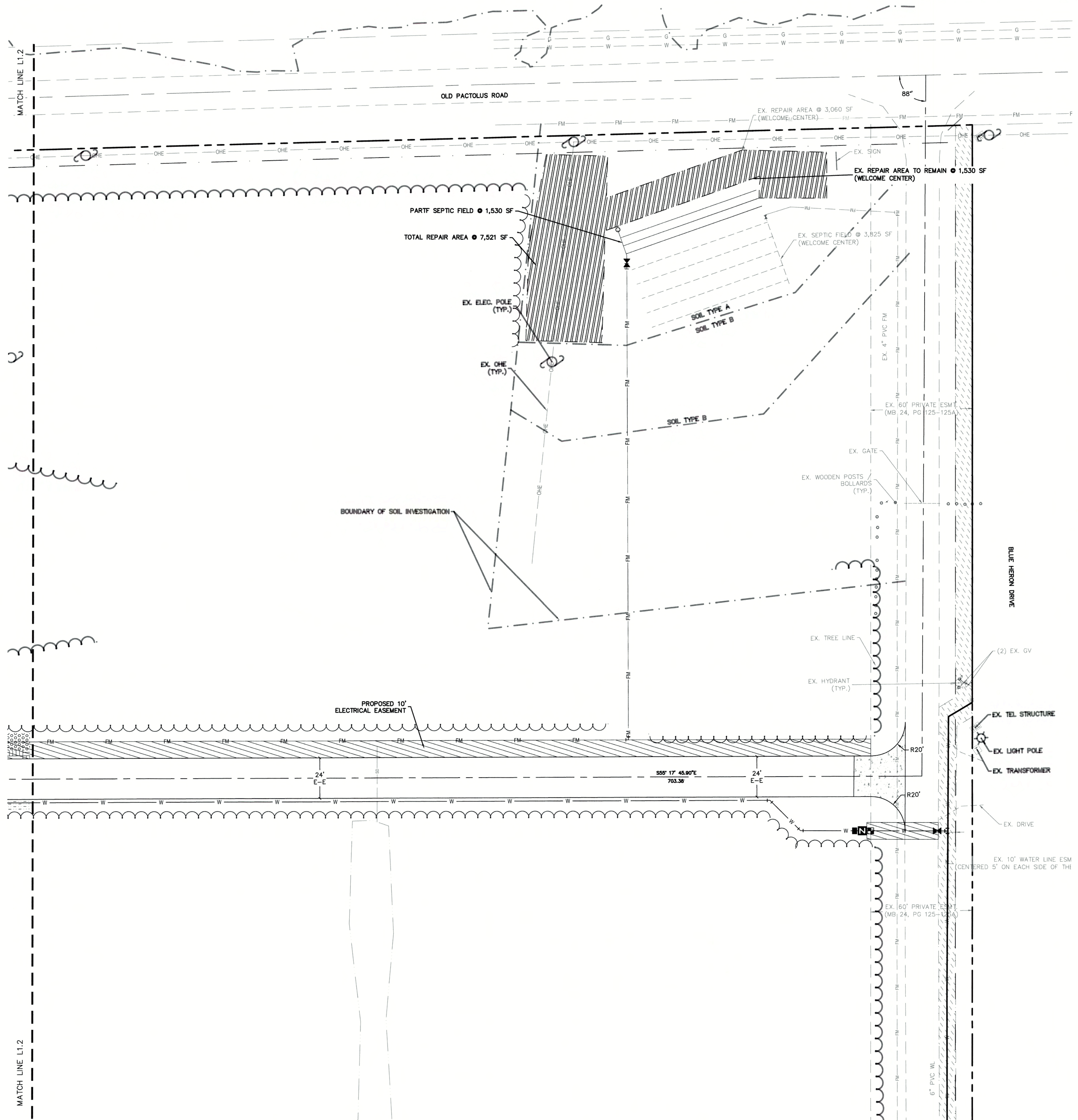


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LEGEND:



ADDITIONAL REPAIR AREA
(SEPTIC)

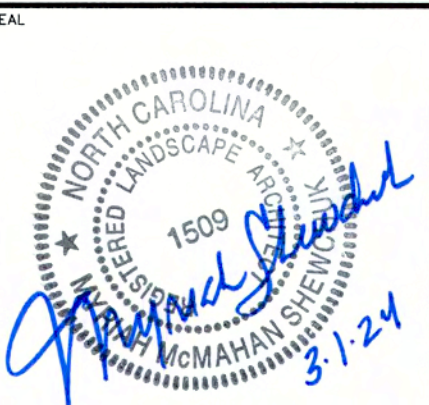


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TED PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE
 Greenville
NORTH CAROLINA

WILDWOOD PARK
PART I IMPROVEMENTS

DRAWING TITLE

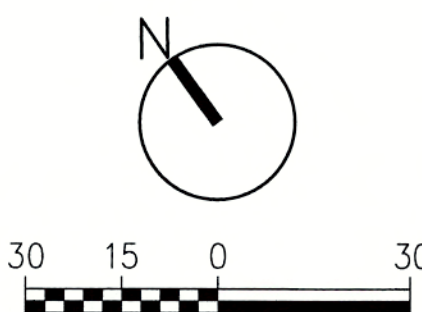
LAYOUT PLAN (EAST)

DRAWING NO.

L1.3



Know what's below.
Call before you dig.



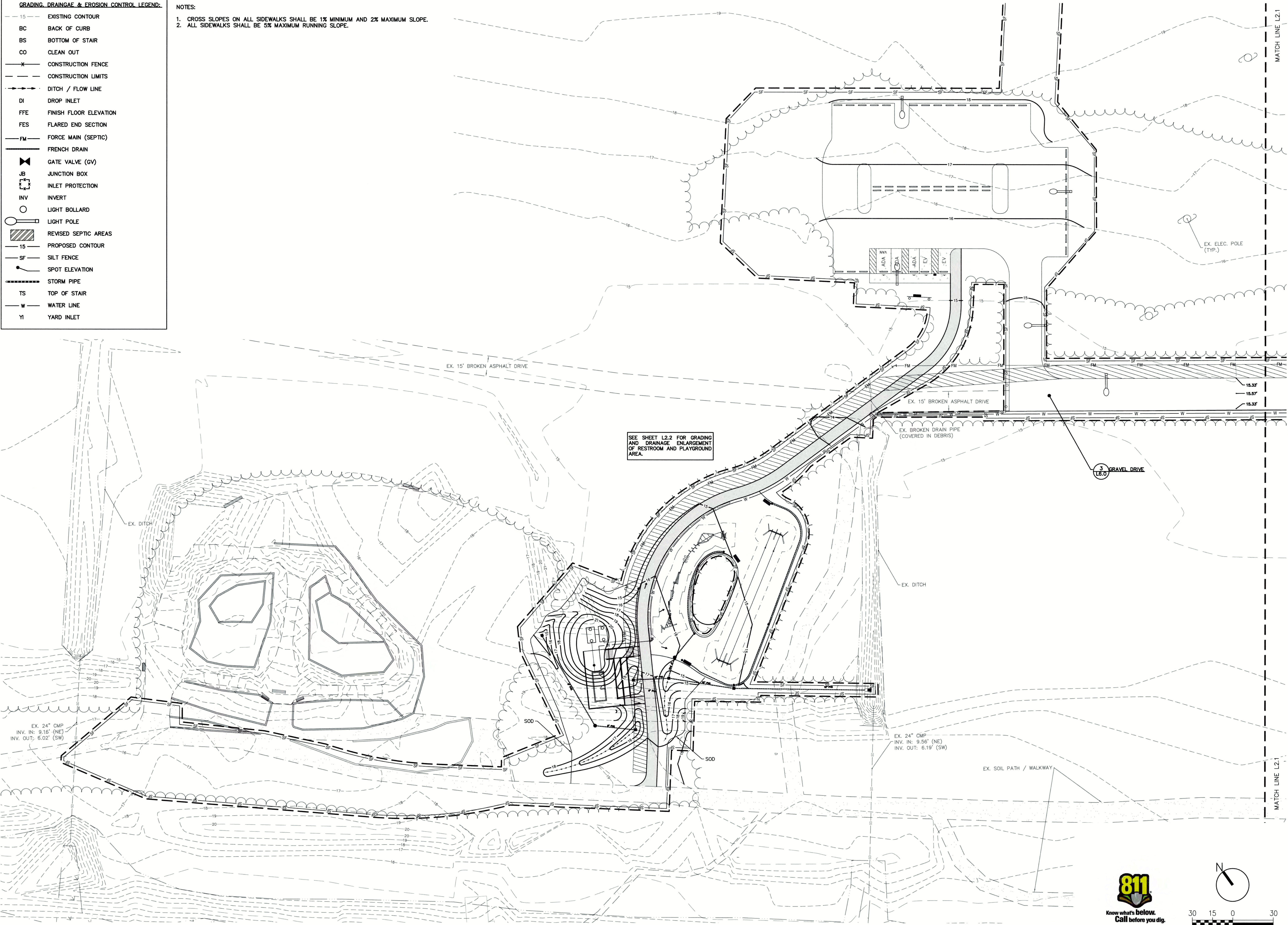
GRADING, DRAINAGE & EROSION CONTROL LEGEND:

- 15 EXISTING CONTOUR
- BC BACK OF CURB
- BS BOTTOM OF STAIR
- CO CLEAN OUT
- X CONSTRUCTION FENCE
- CONSTRUCTION LIMITS
- DITCH / FLOW LINE
- DI DROP INLET
- FFE FINISH FLOOR ELEVATION
- FES FLARED END SECTION
- FM FORCE MAIN (SEPTIC)
- FRENCH DRAIN
- GATE VALVE (GV)
- JUNCTION BOX
- INLET PROTECTION
- INV INVERT
- LIGHT BOLLARD
- LIGHT POLE
- REVISED SEPTIC AREAS
- 15 PROPOSED CONTOUR
- SF SILT FENCE
- SPOT ELEVATION
- STORM PIPE
- TS TOP OF STAIR
- W WATER LINE
- YI YARD INLET

NOTES:

1. CROSS SLOPES ON ALL SIDEWALKS SHALL BE 1% MINIMUM AND 2% MAXIMUM SLOPE.

2. ALL SIDEWALKS SHALL BE 5% MAXIMUM RUNNING SLOPE.



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SEAL

NORTH CAROLINA
LANDSCAPE ARCHITECT
1509
3-1-24

FOR CIVIL ONLY

NORTH CAROLINA
PROFESSIONAL
ENGINEER
3/1/24

REV	DATE	DESCRIPTION	BY	CHK	MS
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Greenville
NORTH CAROLINA

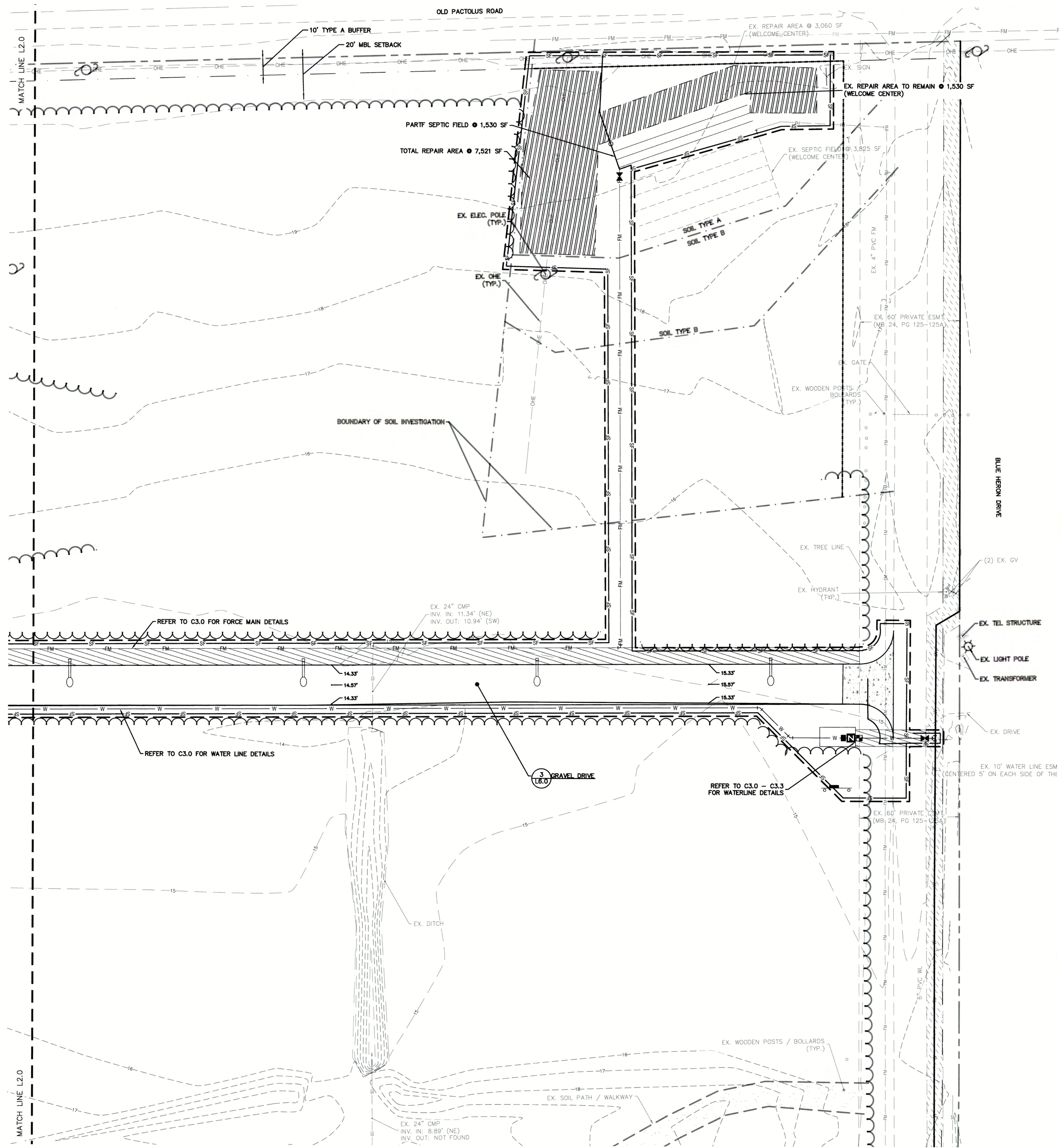
WILDWOOD PARK
PART II IMPROVEMENTS

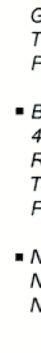
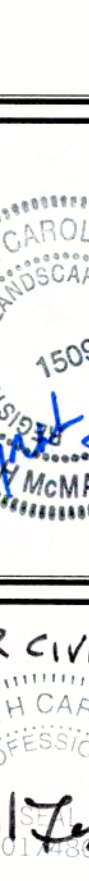
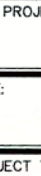
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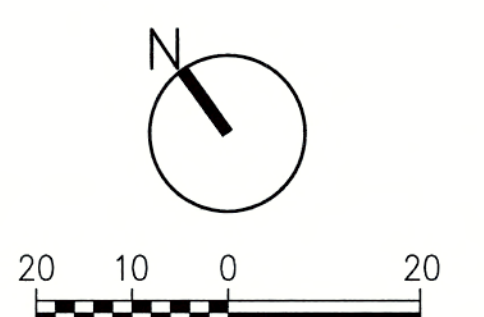
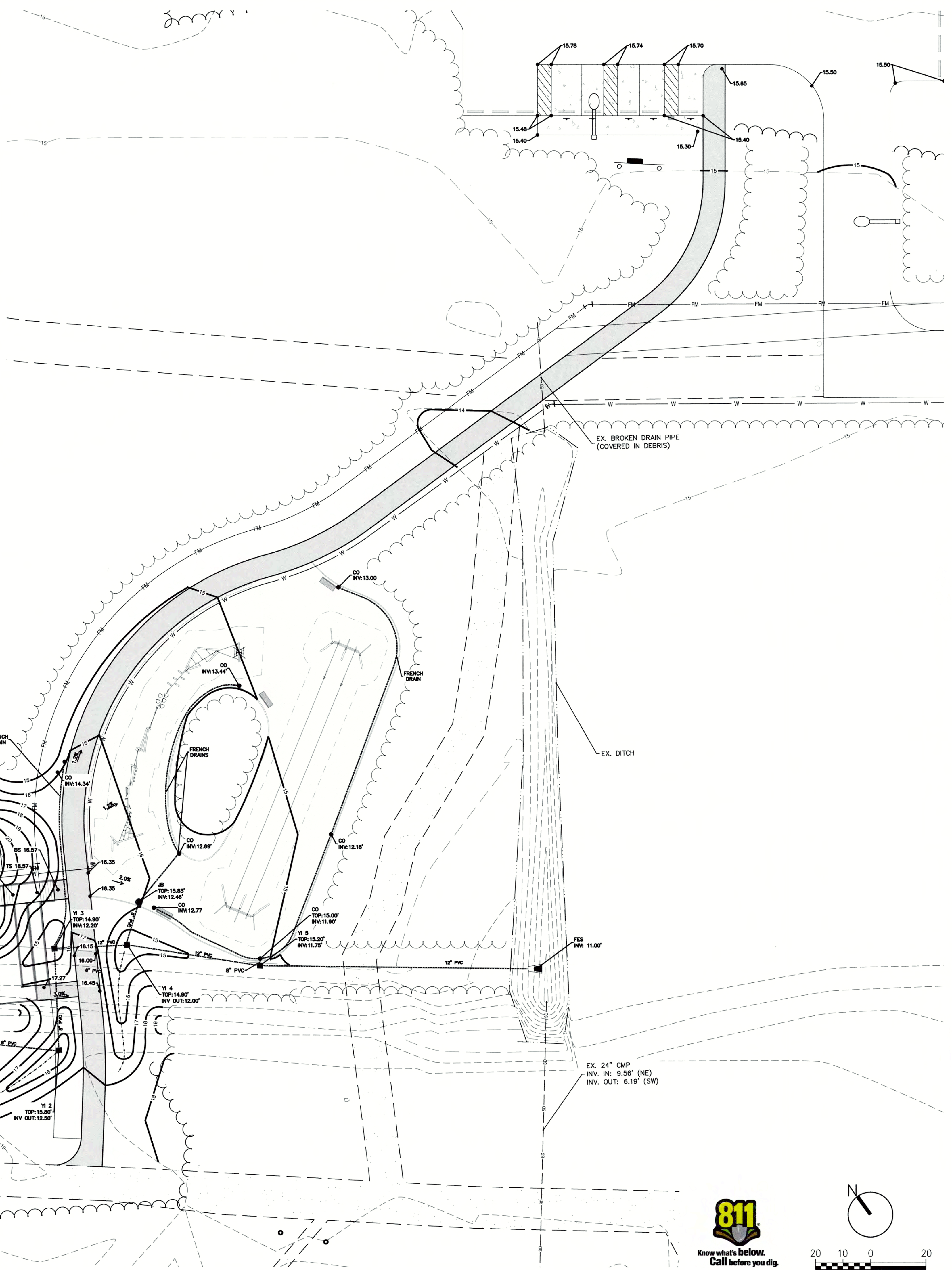
GRADING, DRAINAGE &
EC PLAN (WEST)

DRAWING NO.

L2.0



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 <i>Trippe</i> 3/1/24							
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CHK	BY	REV	DESCRIPTION	DATE	MS	AF	
		0	ISSUE FOR CONSTRUCTION	03-01-24			
REG PROJECT NO.							20230059
DATE:							12.21.23
PROJECT TITLE							 Greenville NORTH CAROLINA WILDWOOD PARK PARTI IMPROVEMENTS
DRAWING TITLE							GRADING, DRAINAGE & EC PLAN (EAST)
DRAWING NO.							L2.1



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CONSTRUCTION SEQUENCE

1. OBTAIN AND POST A COPY OF THE CERTIFICATE OF EROSION AND SEDIMENT CONTROL PLAN APPROVAL. NOTIFY THE NCDEQ AT 252-946-6481 PRIOR TO COMMENCING CONSTRUCTION.
2. DISTURB LAND ONLY AS NECESSARY TO INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES AS NEEDED OR AS DIRECTED BY THE ENGINEER.
3. PERFORM SITE CLEARING AND DEMOLITION, IN ACCORDANCE WITH PLANS, AND DISPOSE OF DEBRIS AT AN APPROVED SITE. PRIOR TO AND DURING DEMOLITION PHASE INSTALL APPROPRIATE EROSION AND SEDIMENTATION CONTROL MEASURES.
4. TRANSITION EROSION CONTROL MEASURES FROM DEMOLITION PHASE TO GRADING PHASE AND INSTALL MEASURES IN THE APPROPRIATE AREAS AND BEGIN GRADING THE SITE.
5. BEGIN EXCAVATION FOR UNDERGROUND CONSTRUCTION. CONSTRUCT UNDERGROUND IMPROVEMENTS.
6. INSTALL DRAINAGE INLETS AND STORM DRAINAGE PIPING WITH TEMPORARY INLET PROTECTION.
7. BEGIN PLACING FILL MATERIAL ON THE BUILDING SITES AND IN REQUIRED AREAS PER PLANS.
8. INSTALL UTILITY MAINS, SEPTIC SYSTEM, AND SEPTIC FIELDS.
9. CONSTRUCT BUILDING AND ASSOCIATED IMPROVEMENTS.
10. MAINTAIN EROSION AND SEDIMENTATION MEASURES DURING CONSTRUCTION. CHECK THE MEASURES FOR FAILURE AND AVAILABLE SEDIMENT STORAGE AFTER EACH SIGNIFICANT RAINFALL EVENT.
11. COORDINATE WITH LANDSCAPE ARCHITECT AND PLAYGROUND VENDOR TO SET FOOTINGS FOR PLAY EQUIPMENT PER THEIR LOCATION ON PLANS.
12. COMPLETE CONSTRUCTION OF SITE IMPROVEMENTS.
13. MULCH AND SEED ALL DISTURBED AREAS. ANY SLOPES LEFT EXPOSED WILL WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
14. COMPLETE CONSTRUCTION OF ALL PROPOSED IMPROVEMENTS.
15. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE 80%± PERMANENT VEGETATION STABILIZATION IS ESTABLISHED.
16. TIME OF EXPOSURE IS APPROXIMATELY 6 MONTHS OR UNTIL COMPLETION AND STABILIZATION OF THE SITE. CONTRACTOR SHALL PREPARE FOR MAINTENANCE OF THE SITE EROSION AND SEDIMENTATION MEASURES APPROPRIATE FOR THE EXPECTED DURATION.

CITY OF GREENVILLE EROSION NOTES:

1. SCHEDULING OF A PRECONSTRUCTION CONFERENCE WITH THE ENGINEERING DIVISION IS REQUIRED PRIOR TO INITIATING LAND DISTURBING ACTIVITIES. FOR SCHEDULING PLEASE CALL (252) 329-4467. A 24-HOUR NOTICE IS REQUIRED. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING THE CITY OF THE DATE OF LAND DISTURBING ACTIVITY.
2. NO LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MEASURES MAY PROCEED UNTIL EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY CITY OF GREENVILLE.
3. SEED AND MULCHING OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 14 WORKING DAYS OF COMPLETING ANY PHASE OF GRADING.
4. CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH 0.5" OVER 24-HOUR PERIOD RAINFALL EVENT. FAILURE TO KEEP EROSION CONTROL DEVICES IN GOOD WORKING ORDER MAY RESULT IN ISSUANCE OF A STOP WORK ORDER OR CIVIL PENALTIES UP TO \$5,000 PER DAY OF VIOLATION. STIES UTILIZING SEDIMENT TRAPS MUST ALSO SPECIFY A MAXIMUM DEPTH OF SEDIMENT PRIOR TO CLEAN OUT.
5. THE CITY ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE.
6. ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATIONS, AND RULES. IN ADDITION, LOCAL CITY AND COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND-DISTURBING ACTIVITY. APPROVAL BY THE CITY DOES NOT SUPERCEDE ANY OTHER PERMIT OR APPROVAL. -PLEASE BE ADVISED OF THE RULES TO PROTECT AND MAINTAIN EXISTING BUFFERS ALONG WATERCOURSES IN THE NEUSE AND TAR RIVER BASINS. THESE RULES ARE ENFORCED BY THE DIVISION OF WATER QUALITY (DWQ). DIRECT ANY QUESTIONS ABOUT THE APPLICABILITY OF THESE RULES TO YOUR PROJECT TO THE REGIONAL WATER QUALITY SUPERVISOR, WASHINGTON REGIONAL OFFICE AT (252) 946-6481.
7. ALL DEWATERING OPERATIONS SHALL BE FILTERED PRIOR TO LEAVING THE SITE.
8. ALL STREETS SHOULD BE SWEEPED AS NEEDED BUT AT LEAST WEEKLY TO CONTROL SEDIMENT FROM LEAVING THE SITE DURING GRADING ACTIVITIES.

GRADING NOTES:

1. ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM FILL AREAS PRIOR TO PLACING FILL. ANY QUESTIONABLE OR UNSUITABLE SOIL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. AFTER STRIPPING TOPSOIL AND PRIOR TO PLACING FILL, IT IS RECOMMENDED THAT ALL BUILDING AREAS BE ROLLED WITH A VIBRATORY ROLLER TO CONSOLIDATE LOOSE SOILS IN THE UPPER SUBGRADE. COMPACTION TEST RESULTS OF AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY WILL BE REQUIRED PRIOR TO ENGINEER'S APPROVAL FOR FILL PLACEMENT. CONTRACTOR SHALL CONTACT THE ENGINEER AND SCHEDULE A PROOF ROLL FOR SUBGRADE AND WHEN AGGREGATE BASE COURSE HAS BEEN INSTALLED.
3. ALL FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).
4. ALL CULVERT CLEANOUT MUST BE DONE SUCH THAT THE SEDIMENT IS EITHER EXTRACTED OR BLOWN UPSTREAM FOR CLEANUP. UNDER NO CIRCUMSTANCES SHALL SEDIMENT BE BLOWN DOWNSTREAM.
5. GRADING CONTRACTOR SHALL TEMPORARY SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS WITHIN 14 DAYS OF COMPLETION OF GRADING WORK. UPON COMPLETION OF THE PROJECT, THE GENERAL CONTRACTOR SHALL INSTALL PERMANENT SEEDING AS OUTLINED IN THE SPECIFICATIONS. ALL DRAINAGE PIPES SHALL BE CLEANED BY THE GENERAL CONTRACTOR TO REMOVE ANY SEDIMENTS THAT HAVE ACCUMULATED.
6. ALL PLANTING AREAS SHALL BE BACKFILLED WITH TOPSOIL AND RAKED DOWN, REMOVING ALL CLOUDS AND ROOTS, AND LEFT READY FOR SEEDING AND PLANTING.

SEED BED PREPERATION NOTES

1. SCARIFY SOIL TO A DEPTH OF THREE (3) INCHES AND WORK INTO A SATISFACTORY SEED BED BY DISKING, USE OF CULTIPACKERS, HARROWS, DRAGS AND OTHER APPROVED MEANS.
2. PREPARATION OUTLINED ABOVE SHALL NOT BE DONE WHEN THE SOIL IS FROZEN, WET OR OTHERWISE IN AN UNFAVORABLE CONDITION.
3. BEGIN AND COMPLETE SEEDING OPERATIONS AS OUTLINED AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, BUT IN NO EVENT LATER THAN 14 CALENDAR DAYS AFTER COMPLETION OF FINAL GRADING.
4. SEEDING AND MULCHING OPERATIONS SHALL NOT BEGIN UNTIL ELECTRICAL SERVICE HAS BEEN INSTALLED WITHIN THE PROJECT, UNLESS DIRECTED BY THE ARCHITECT/ENGINEER.
5. DISTRIBUTE LIME AND FERTILIZER, UNIFORMLY OVER SEED BED AND HARROW, RAKE, OR OTHERWISE WORK SAME INTO SEED BEDS.
6. DISTRIBUTE SEED UNIFORMLY OVER SEED BED. COVER SEED LIGHTLY AFTER SEEDING.
7. NO LIME, FERTILIZER, OR SEED SHALL BE APPLIED DURING A STRONG WIND, WHEN SOIL IS WET OR OTHERWISE UNWORKABLE. SHOULD RAIN FOLLOW SEEDING BEFORE ROLLING IS BEGUN, THE BED SHALL NOT BE ROLLED.

TEMPORARY SEEDING

DATE	APR 15-AUG 14	GERMAN MILLET	50 LBS/ACRE
	AUG 15-APR 14	RYE (GRAIN)	50 LBS/ACRE
YEAR ROUND	FERTILIZER 10-20-20	400 LBS/ACRE	ANALYSIS

VEGETATIVE PLAN:

VEGETATIVE COVER SHALL BE IN ACCORDANCE WITH THE SEEDING SCHEDULE AND THE FOLLOWING SPECIFICATION SECTIONS:
SECTION 02110 SITE CLEARING
SECTION 02120 EROSION & POLLUTION CONTROL
SECTION 02228 CLEAN-UP & SEEDING

GROUND STABILIZATION		
SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
* PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
* HIGH QUALITY WATER (H2O) ZONES	7 DAYS	NONE
* SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
* SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
* ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND H2O ZONES)

SEEDING AND MULCHING

ALL ROADWAY AREAS			
MARCH 1 - AUGUST 31	50#	SEPTEMBER 1 - FEBRUARY 28	50#
10#	TALL FESCUE	10#	TALL FESCUE
25#	CENTPEDE	35#	CENTPEDE
500#	BERMUDAGRASS (HULLED)	500#	BERMUDAGRASS (HULLED)
4000#	FERTILIZER	4000#	FERTILIZER
	LIMESTONE		LIMESTONE

WATER AND BORROW LOCATIONS			
MARCH 1 - AUGUST 31	75#	SEPTEMBER 1 - FEBRUARY 28	75#
25#	TALL FESCUE	35#	TALL FESCUE
500#	BERMUDAGRASS (HULLED)	500#	BERMUDAGRASS (HULLED)
4000#	FERTILIZER	4000#	FERTILIZER
	LIMESTONE		LIMESTONE
NOTE: 50# OF BAHAGRASS MAY BE SUBSTITUTED FOR EITHER CENTPEDE OR BERMUDAGRASS ONLY UPON ENGINEER'S REQUEST.			

MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND INTEGRITY FOLLOWING EVERY 0.5" OVER 24-HOUR PERIOD RAINFALL EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES 0.5 FT DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
3. EROSION CONTROL MATTING SHALL BE MAINTAINED UNTIL ALL WORK IS COMPLETE. AREAS SHALL BE RESEEDD AND MATTING SHALL BE REPLACED AS NEEDED.
4. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE / EXIT WILL BE INSPECTED PERIODICALLY. WHEN MUD BEGINS TO BUILD UP, THE ENTRANCE SHALL BE BLADED OFF TO REMOVE THE MUD. ADD NEW STONE TO ENTRANCE, AS NEEDED.
5. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATION IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
6. INSPECT DOUGHNUT INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2-INCH OF GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT FROM THE SEDIMENT POOL AREA WHEN THE VOLUME IS DECREASED BY HALF.
7. EMPTY INLET SEDIMENT BAG IF MORE THAN HALF FILLED WITH SEDIMENT AND DEBRIS, OR AS DIRECTED. REPLACE BAG IF TORN OR PUNCTURED TO >1/2" DIAMETER ON LOWER HALF OF BAG.

NPDES INSPECTION REQUIREMENTS:

1. MUST KEEP A RAIN GAUGE ON THE PROJECT SITE.
2. DEDICATED DEMOLITION AND OTHER WASTE AREAS AND EARTHEN MATERIAL STOCKPILES MUST BE LOCATED AT LEAST 50' FORM STORM DRAINS OR STREAMS UNLESS NO ALTERNATIVE IS FEASIBLE.
3. MUST INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN A HALF-INCH (DURING A 24 HOUR PERIOD). MUST TAKE IMMEDIATE CORRECTIVE ACTION FOR ANY DEVICE FAILURE.
4. MUST INSPECT ALL OUTLETS WHERE STORMWATER RUNOFF LEAVES THE SITE AND EVALUATE THE EFFECT ON NEARBY STREAMS OR WETLANDS.
5. CORRECTIVE ACTION MUST BE TAKEN IF SEDIMENT IS DEPOSITED OFF-SITE OR INTO A STREAM OR WETLAND, OR CAUSES A VISIBLE INCREASE IN TURBIDITY OF ANY WATERBODY.
6. MUST KEEP RECORDS OF THESE INSPECTIONS AND ANY CORRECTIVE ACTIONS TAKEN.



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■ Surveying ■ Technology

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NC Architectural License No. 50213
NC Landscape Architectural License
No. C-427

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DESCRIPTION

ISSUE FOR CONSTRUCTION

DATE

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03-01-24

REG PROJECT NO.

20230059

DATE

12.21.23

PROJECT TITLE

Greenville

NORTH CAROLINA

WILDWOOD PARK

PARTF IMPROVEMENTS

DRAWING TITLE

NCG01 CONSTRUCTION

SEQUENCE GRADING, AND

EROSION CONTROL NOTES

DRAWING NO.

L2.3

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. In addition, when a storm event of equal to 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-day 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-monitoring device approved by the Division.
(2) E&SC 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. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(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 outfalls 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.
(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	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC 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 II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC 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&SC plan.	Initial and date a copy of the approved E&SC 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&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for 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 twelve months. 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.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all 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

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- 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).
- 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.
- Anticipated bypasses and unanticipated bypasses.
- 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 Department's Environmental Emergency Center personnel at (800) 858-0368.

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. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	Within 24 hours, an oral or electronic notification. 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 reoccurrence 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 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19



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No. C-427

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			ISSUE FOR CONSTRUCTION	03-01-24							

FIG PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE
 WILDWOOD PARK
PART F IMPROVEMENTS

DRAWING TITLE
NCG01 SELF INSPECTION,
RECORD KEEPING AND
REPORTING

DRAWING NO.

L2.4

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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 (HQW) 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
(d) Slopes 3:1 to 4:1	14	-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 HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW 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 land 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

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
- Temporary grass seed covered with straw or other mulches 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 mulches 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 restrain 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 fuels, 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

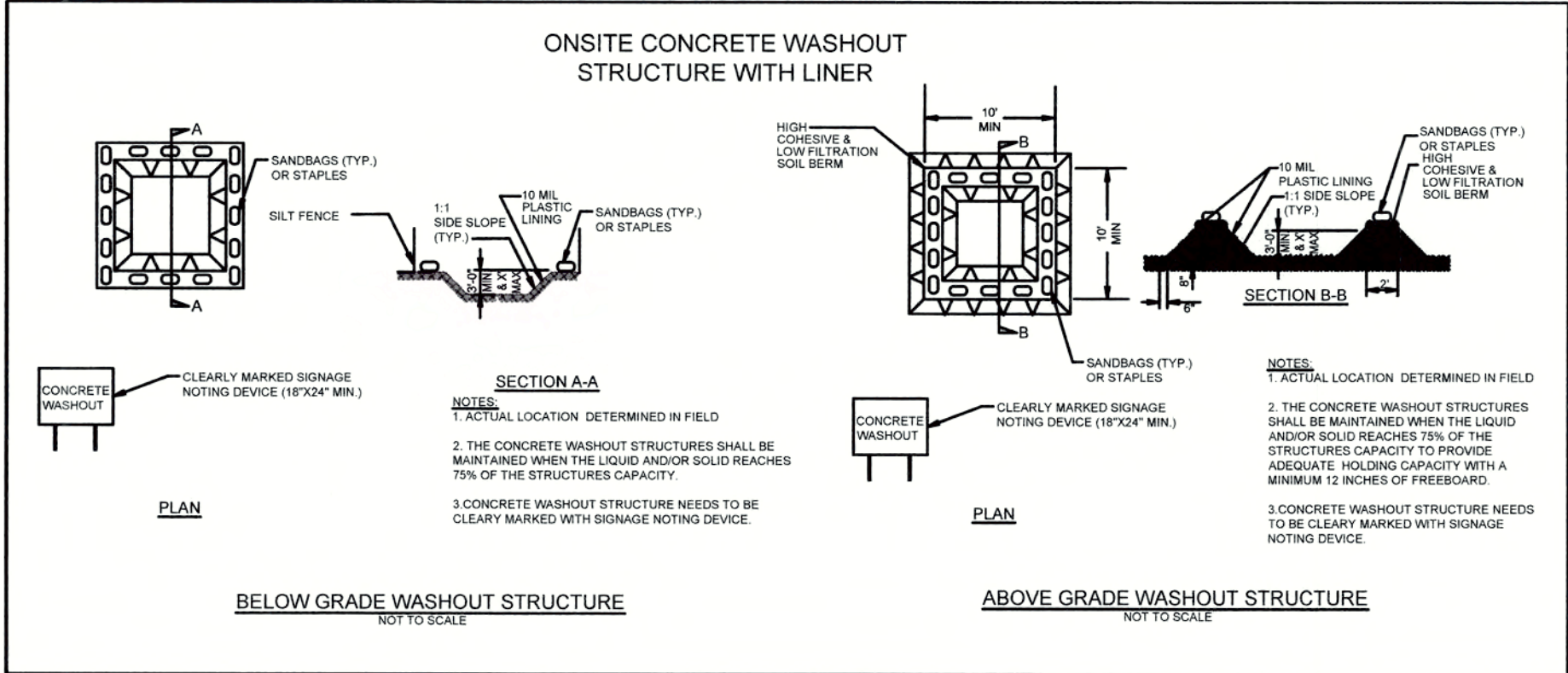
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, 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 silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot 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 silt 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.



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SEAL

SEAL



REV	DATE	DESCRIPTION	BY	CHK	MS
0	03-01-24	ISSUE FOR CONSTRUCTION	AF		

REG PROJECT NO. 20230059

DATE 12.21.23

PROJECT TITLE



WILDWOOD PARK
PART I IMPROVEMENTS

DRAWING TITLE

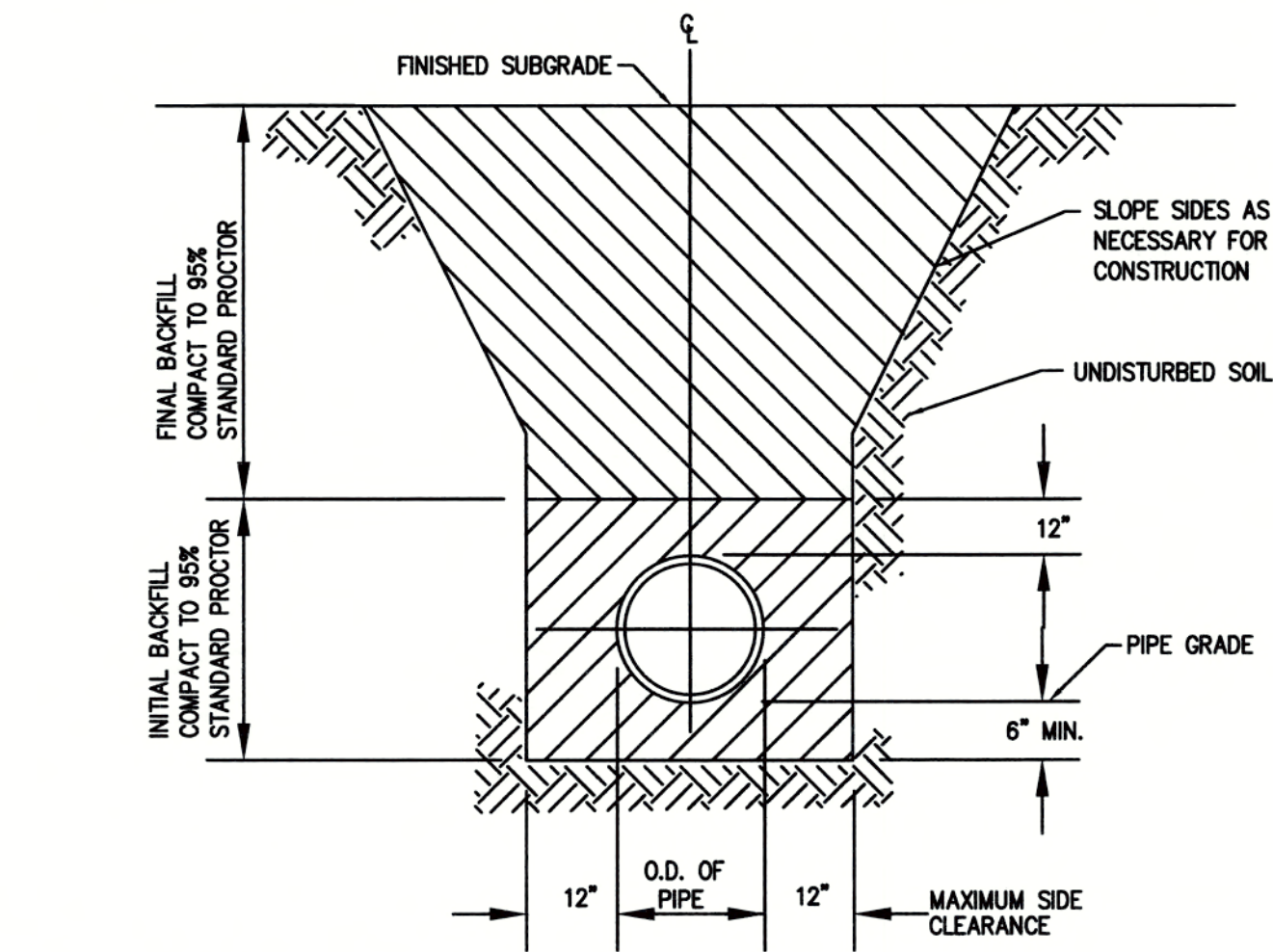
NCG01 GROUND
STABILIZATION AND
MATERIALS HANDLING

DRAWING NO.

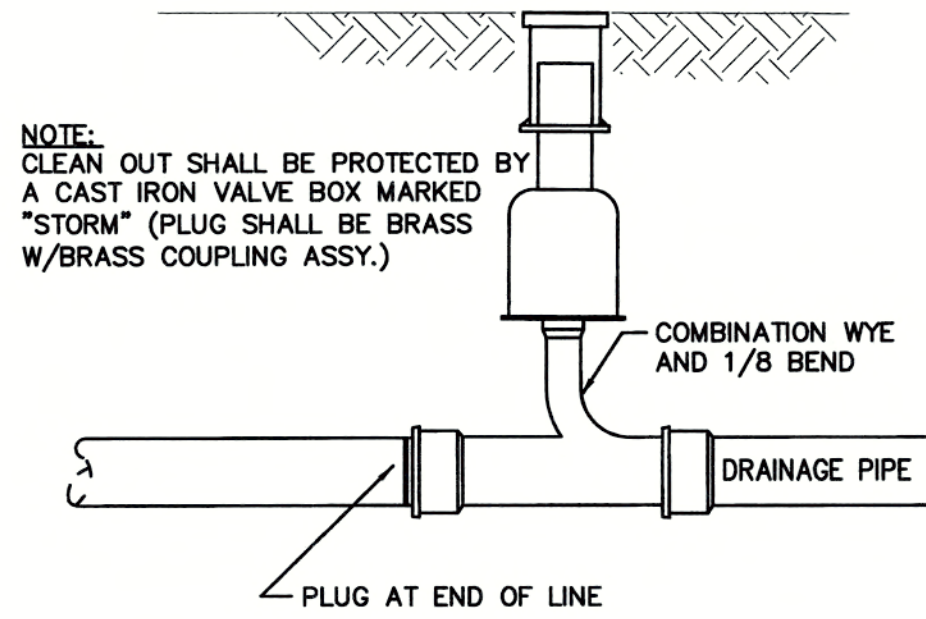
L2.5

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

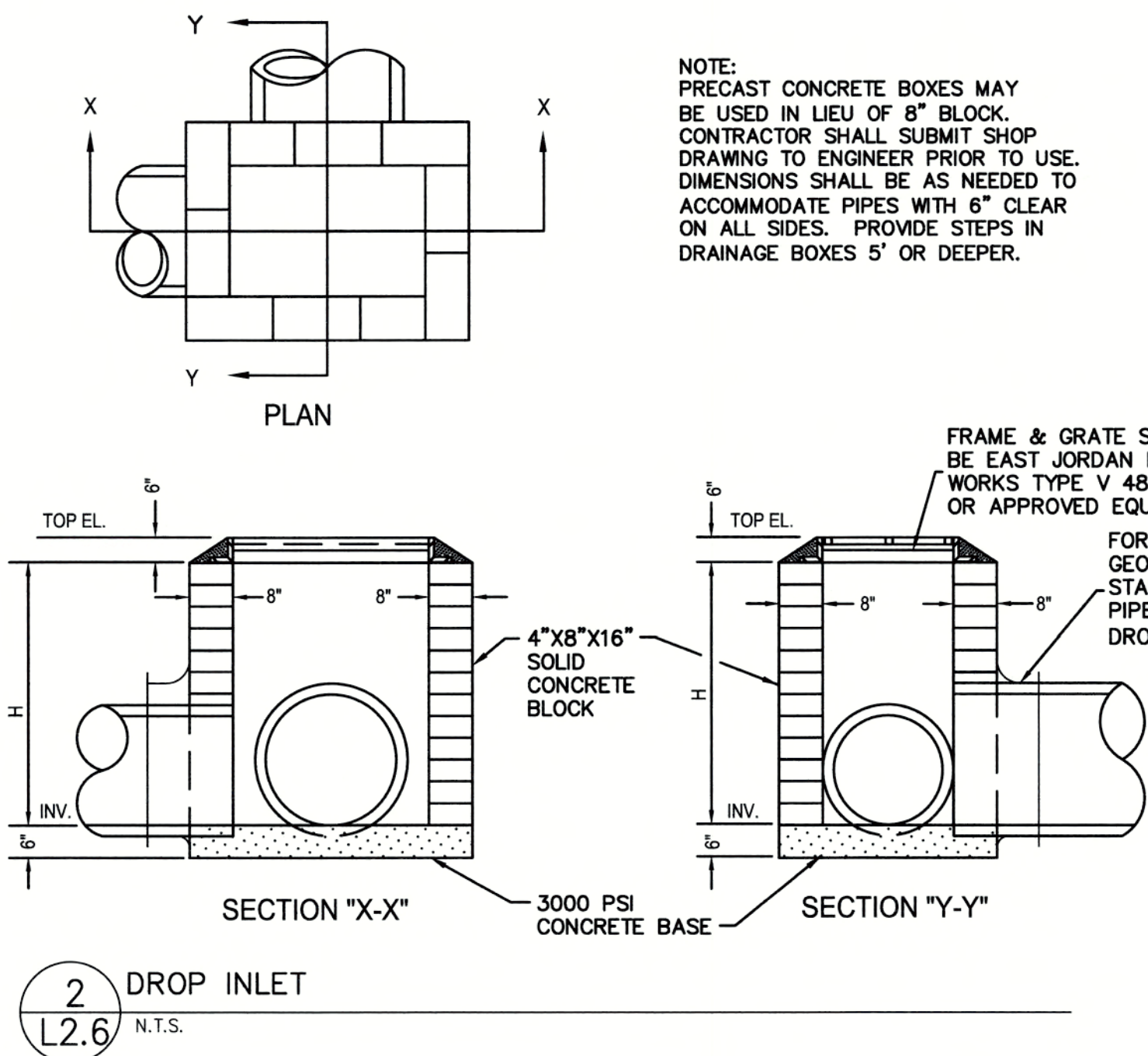
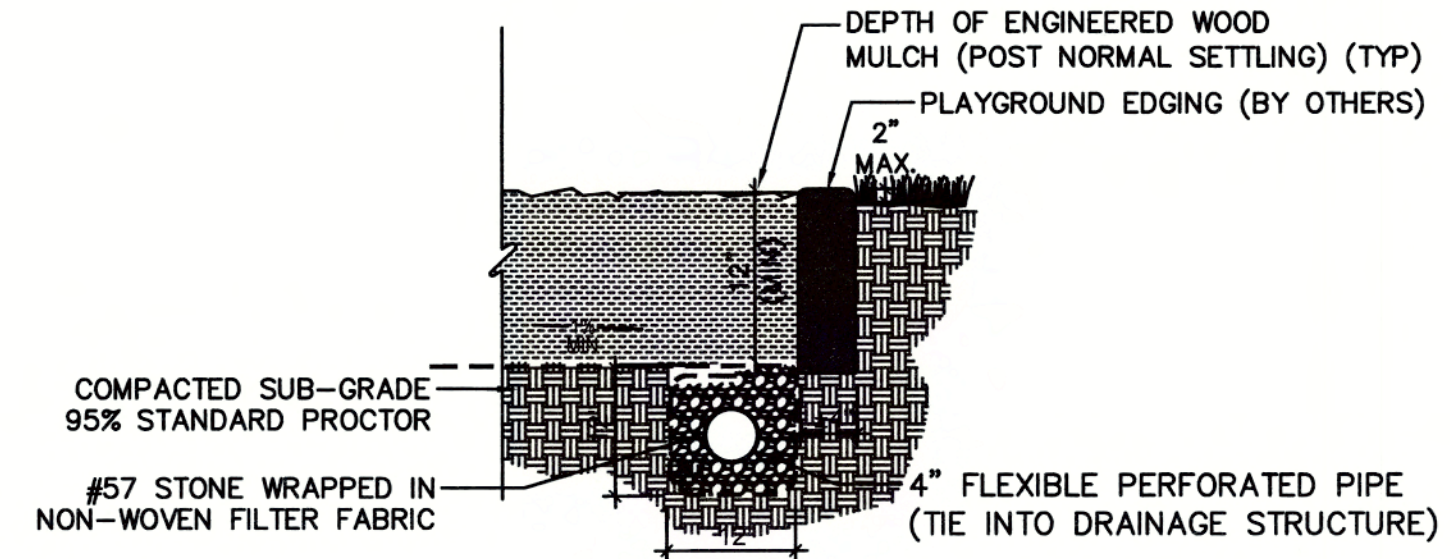
EFFECTIVE: 04/01/19



4
L2.6
N.T.S.

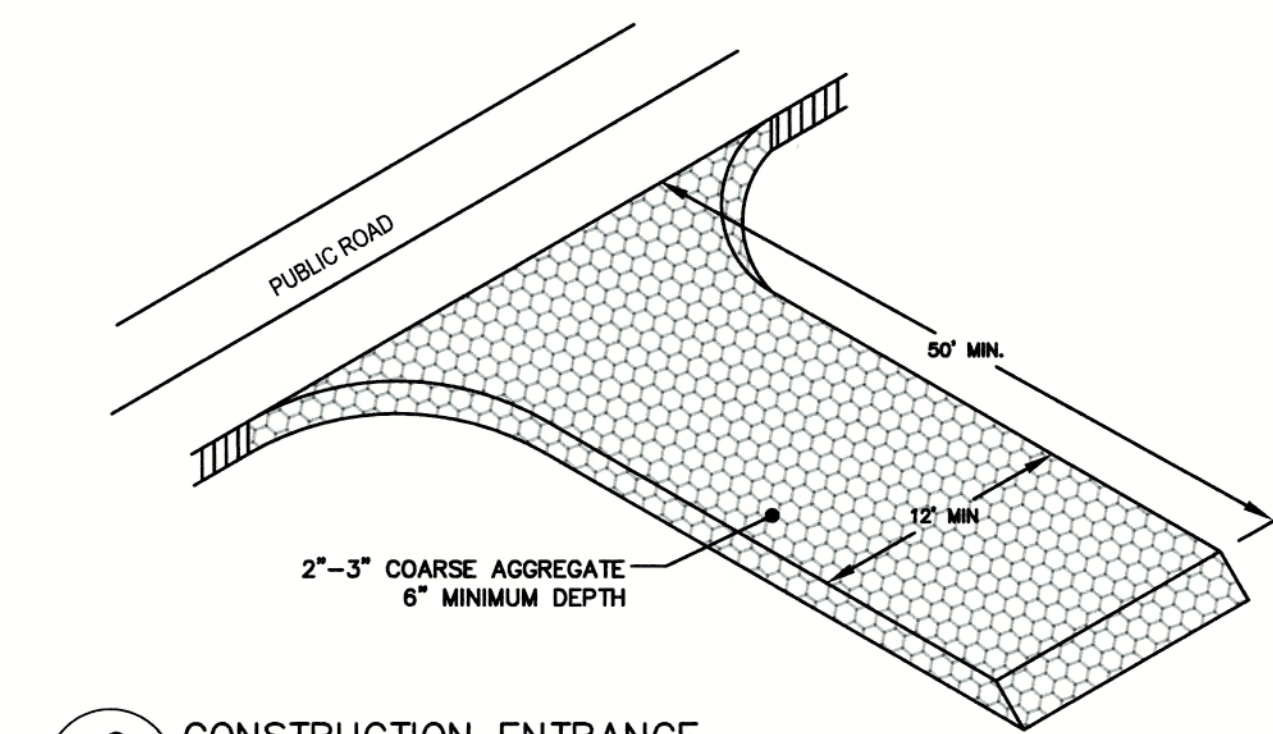
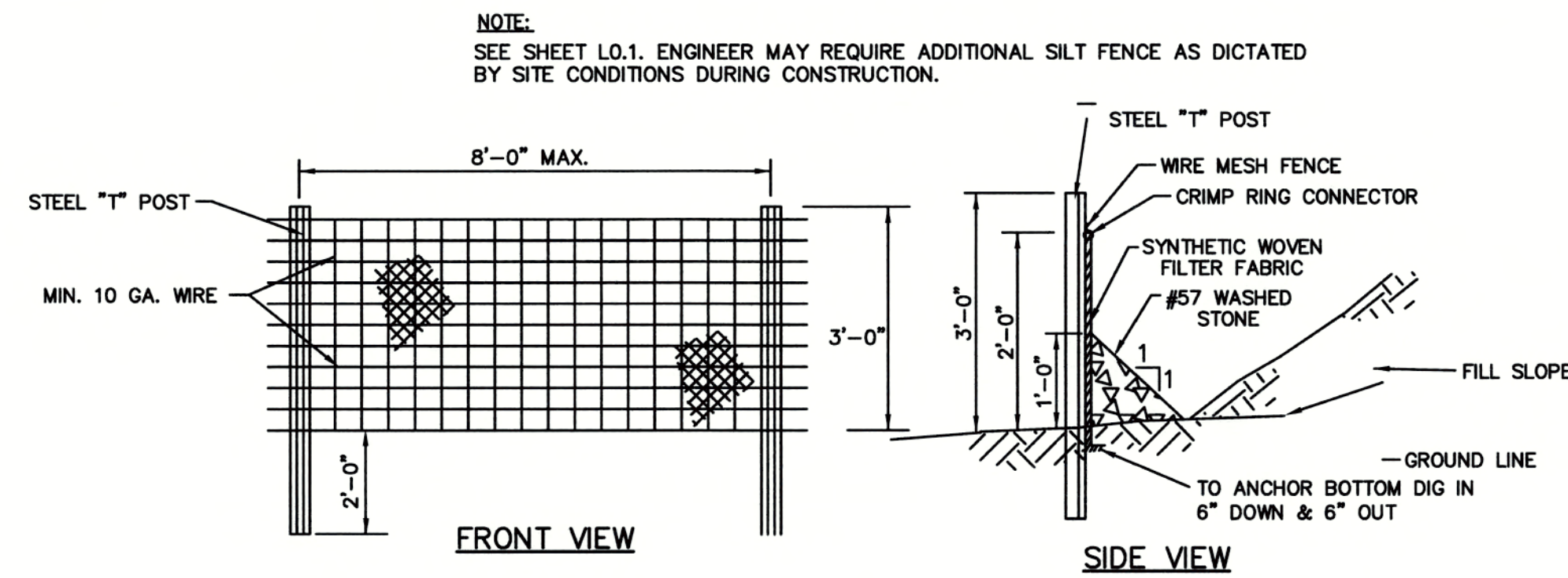
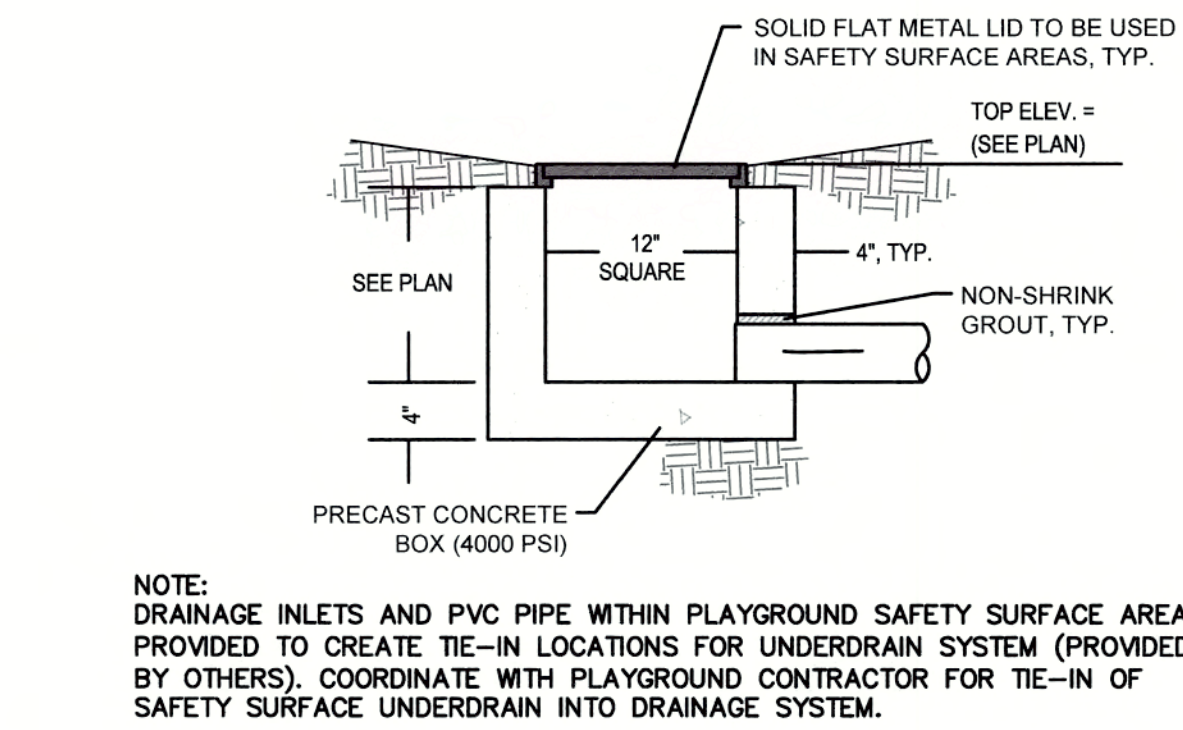
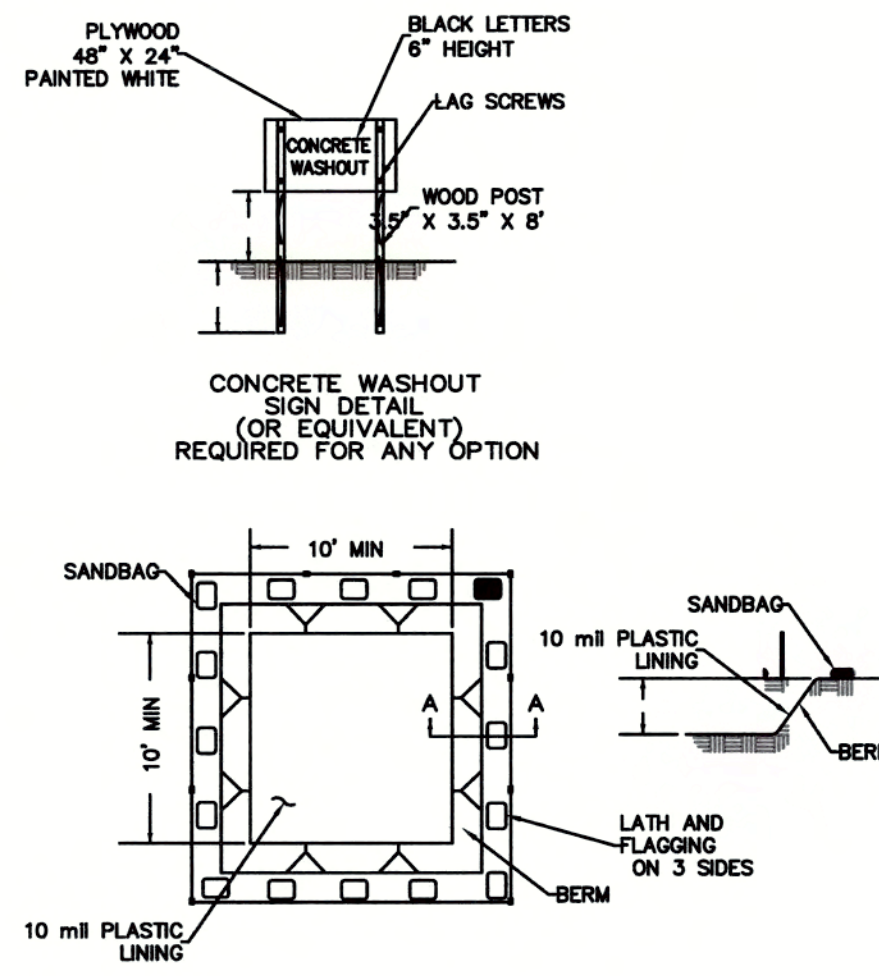
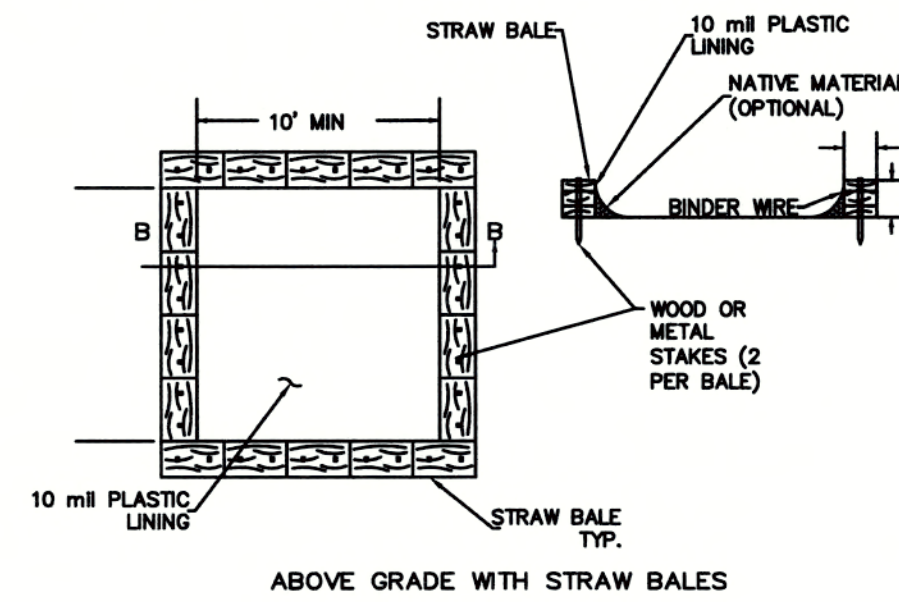


7
L2.6
N.T.S.



- NOTES:
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD BUT NOT WITHIN 50 FT OF A PROPOSED/ EXISTING CATCH BASIN AND/ OR INLETS, TOP OF PERENNIAL STREAM, SURFACE WATER BODY, OR WETLAND.
 2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED IN CLOSE PROXIMITY OF THE AREA AND SHALL BE CLEARLY VISIBLE.
 3. GEOMEMBRANE BASIN LINER SHALL CONSIST OF A POLYPROPYLENE OR POLYETHYLENE 10 MIL THICK GEOMEMBRANE.
 4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

- MAINTENANCE:
1. MAINTAIN WASHOUT STRUCTURE TO PROVIDE ADEQUATE CAPACITY PLUS A MINIMUM OF 12 INCHES. REMOVE AND DISPOSE HARDENED CONCRETE AND RETURN THE STRUCTURE TO A FUNCTIONAL CONDITION AFTER REACHING 75% CAPACITY.
 2. INSPECT WASHOUT STRUCTURE FOR DAMAGE AND MAINTAIN FOR EFFECTIVENESS WEEKLY.
 3. REMOVE CONCRETE STRUCTURE AND SIGN ON PROJECT COMPLETION, DISPOSE CONCRETE IN APPROVED LANDFILL SITE OR RECYCLE.
 4. GRADE THE EARTH MATERIAL TO MATCH EXISTING CONTOURS AND SEED ACCORDINGLY TO PLANT SCHEDULE. MULCH AREA ACCORDINGLY.
 5. PROVIDE 2" SAND LAYER TO CONCRETE WASHOUT PIT.



REV	DATE	DESCRIPTION	BY	CHK	MS
0	03-01-24	ISSUE FOR CONSTRUCTION	AF	MS	

TED PROJECT NO.	20230059
DATE:	12.21.23
PROJECT TITLE	Wildwood Park Part I Improvements
DRAWING TITLE	Tree Protection, Erosion Control & Drainage Details

DRAWING NO.
L2.6

TURFGRASS SOD NOTES

Certification – The Contractor shall furnish and install Certified 'TifTuf' Bermuda Sod, grown from certified high quality seed of local origin. Sod shall be inspected by the official certification agency of the state to assure satisfactory genetic identity and purity, overall high quality and freedom from noxious weeds and excessive amounts of other crop and weedy plants at time of harvest. Sod must meet the published state standards for certification. Install only between September and May inclusive.

Material – Sod should be of uniform thickness, approximately 1" plus or minus 1/4" at the time of cutting. Sod should be vigorous and dense and be able to retain its own shape and weight when suspended vertically with a firm grasp from the upper 10% of the strip. Broken pads or torn and uneven ends will not be acceptable. Only moist, fresh unheated sod should be used. Sod should be harvested, delivered and installed within a period of 16 hours.

Soil Amendments – All fertilizers shall be uniform in composition, free flowing and suitable for application with approved equipment. Fertilizer application rates shall be determined by soil tests. Distribute evenly over area to be sodded. Lime and fertilizer shall be uniformly mixed into the top 2 inches of soil by discing, harrowing or other approved methods.

The final determination of the use and application rates of all soil amendments including fertilizers, low and high pH correction materials shall be based upon recommendations of the state agricultural extension service for the variety of turfgrass being specified.

Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet using 10–20–10 or equivalent. In addition, 300 pounds 38–0–0 per acre or equivalent of slow release nitrogen shall be used in lieu of top dressing. Apply limestone (equivalent of 50 percent calcium plus magnesium oxides) as follows:

Work pulverized dolomitic limestone lime and fertilizer into the soil as nearly as practical to a depth of 4 inches with a disc, springtooth harrow or other suitable equipment. The final harrowing or discing operation should be on the general contour. Continue tillage until a reasonable uniform, fine seedbed is prepared.

TOPSOIL: Topsoil used shall be fertile agricultural soil; typical for locality; capable of sustaining vigorous plant growth; taken from drained sites; free of subsoil, stones, clay or impurities, plants, weeds and roots; pH value minimum 5.4, maximum 7.0; organic content 5 to 7 percent.

All seed and sod areas shall have a minimum 6" of topsoil applied (depth after rolling).

Soil Preparation – Remove from the surface all objects that would prevent good sod to soil contact and remove all other debris such as wire, rocks, tree roots, pieces of concrete, clods, lumps or other unsuitable material. Inspect site just before sodding. If traffic has left the soil compacted, the area must be retilled and firmed as above.

Installation – Place sod strips with snug even joints that are staggered open, spaces invite erosion. Roll or tamp sod immediately following placement to insure solid contact or foot mat and soil surface. Do not overlap sod. All joints should be butted tightly in order to prevent voids, which would cause drying of the roots.

Slopes – Sod strips shall be laid on the contour, never up and down the slope. Starting at the bottom of the slope, and working up on steep slopes, the use of ladders will facilitate the work and prevent damage to the sod. During periods of high temperature, lightly irrigate the soil immediately prior to laying the sod.

On slopes greater than 3 to 1, secure sod to surface soil with wood pegs, wire staples, or split shingles (8 to 10 inches long by 3/4 inch wide). When surface water cannot be diverted from flowing over the face of the slope, provide a capping strip of heavy jute or plastic netting, properly secured, along the crown of the slope and edges to provide extra protection against lifting and undercutting of the sod. The same technique can be used to anchor sod in water-carrying channels and other critical area. Wire staples must be used to anchor netting in channel work.

Watering – immediately following installation, sod should be watered until moisture penetrates the soil layer beneath sod to a depth of 4 inches. The Contractor shall insure the maintenance of optimum moisture for at least two weeks.

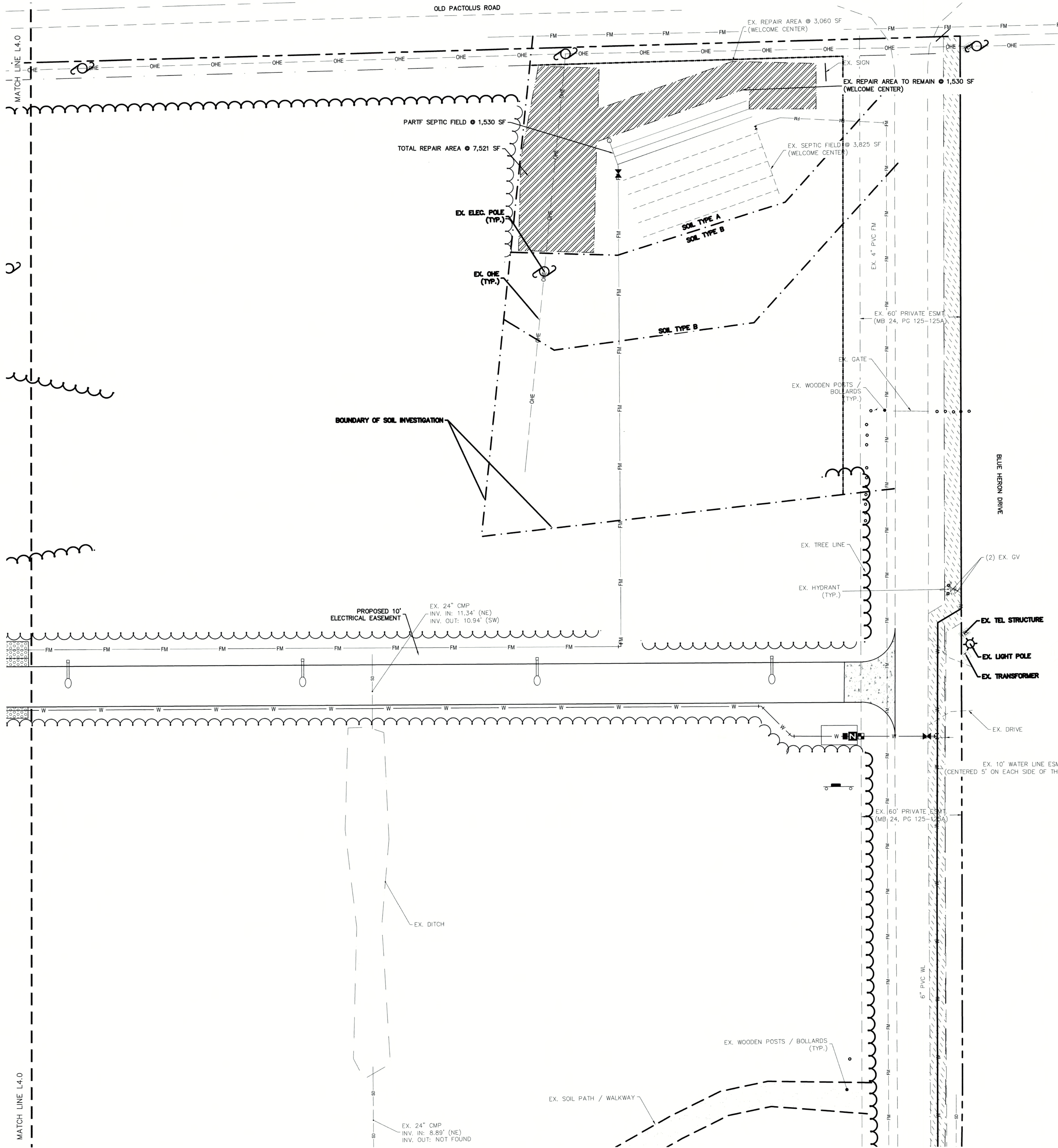
Topdressing – if slow release nitrogen (300 pounds 38–0–0 per acre or equivalent) is used in addition to suggested fertilizer, then a follow-up of topdressing is not mandatory. Sod will require an application of fertilizer such as 10–20–10 or equivalent at 400 pounds per acre or 10 pounds per 1,000 square feet.

Protection – The Contractor shall provide adequate protection for lawn areas at all times against damage of any kind during installation or other related operations. Such protection shall be maintained from the completion of site preparation to the completion of Contract work.

Mowing – Turfgrass shall be allowed to grow to a height of 3 inches prior to the first mowing. The grass shall be properly mowed to a height of 2 to 2 1/2 inches. Never, in any case, cut more than 1/3 the height of the grass. The Contractor shall be responsible for at least the first 2 mowings and any other mowing necessary until final acceptance.

Guarantee – The Contractor shall guarantee that upon completion and acceptance of the work, all portions thereof will be in accordance with the Contract and specifications. The same condition shall remain for a period of one year. The Contractor shall further warrant that during the period of the guarantee, he will make good any defects to the work and all damage caused to property of the Owner by such defects or by the work required to remedy such defects.

LEGEND:
REVISED SEPTIC AREAS



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SEAL
NORTH CAROLINA
LANDSCAPE ARCHITECT
1800
J. M. MOHAWAN
3-1-24

REV	DATE	DESCRIPTION
0	03-01-24	ISSUE FOR CONSTRUCTION

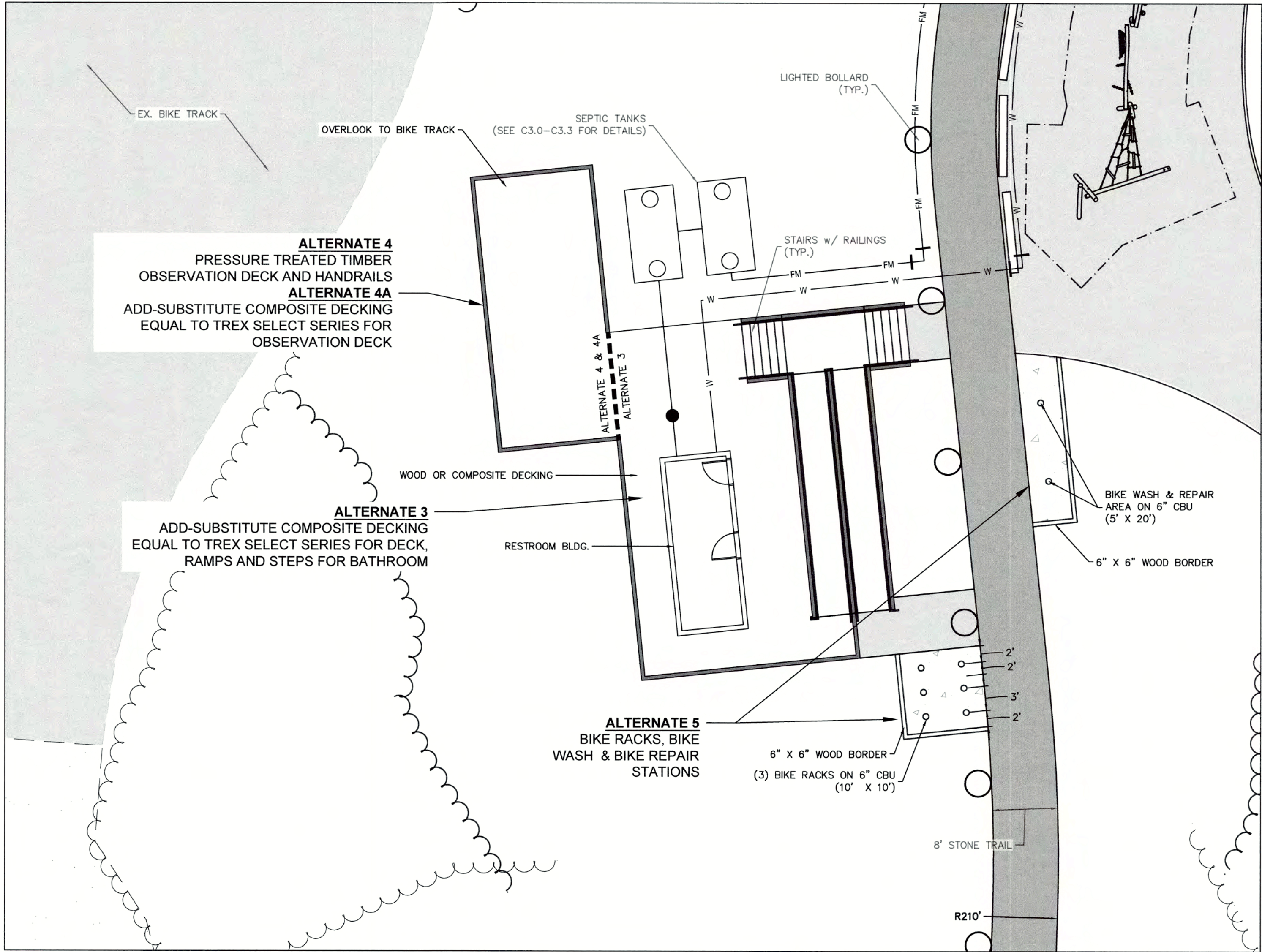
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DATE: 12.21.23

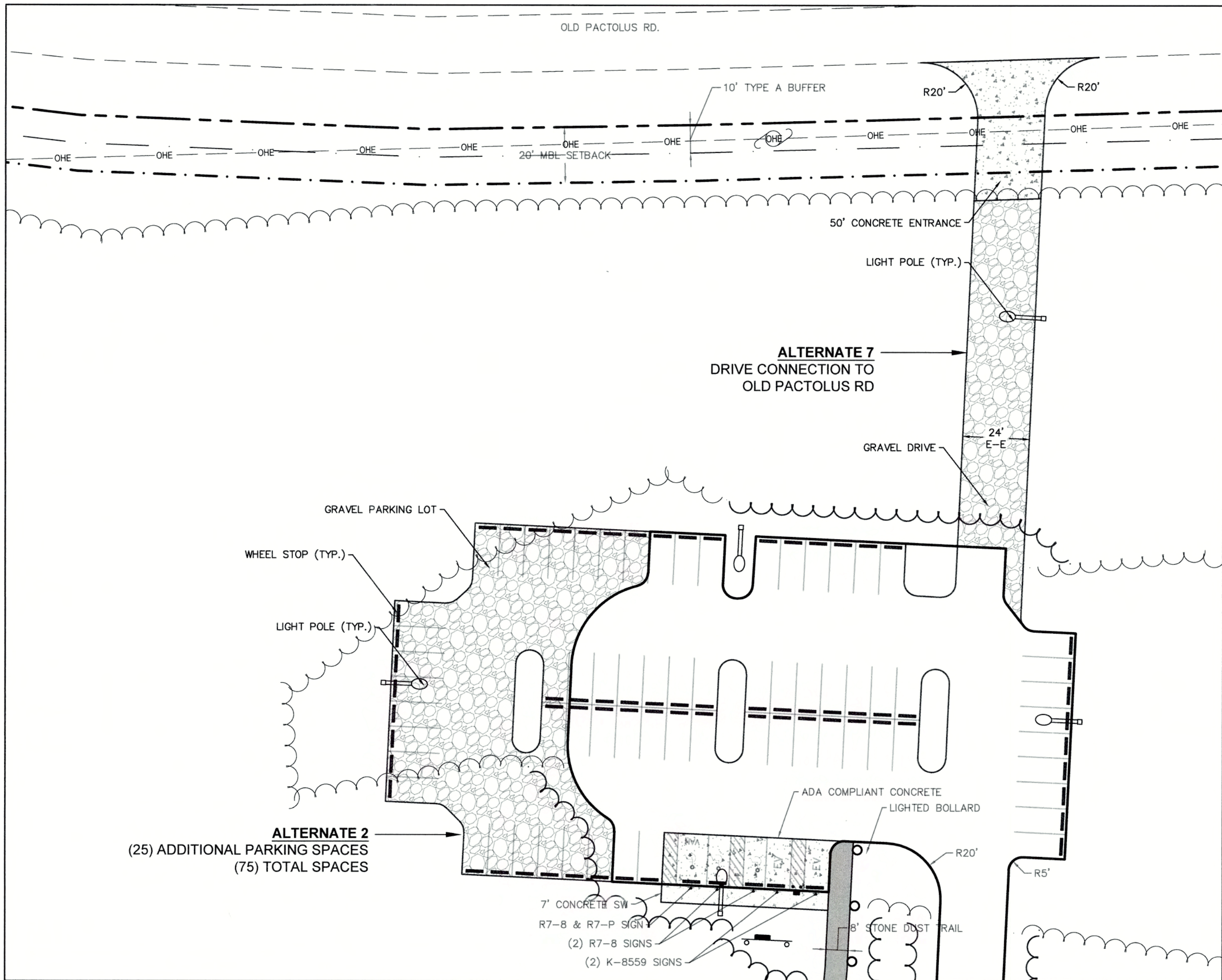
PROJECT TITLE
Greenville
NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
PLANTING PLAN (EAST)

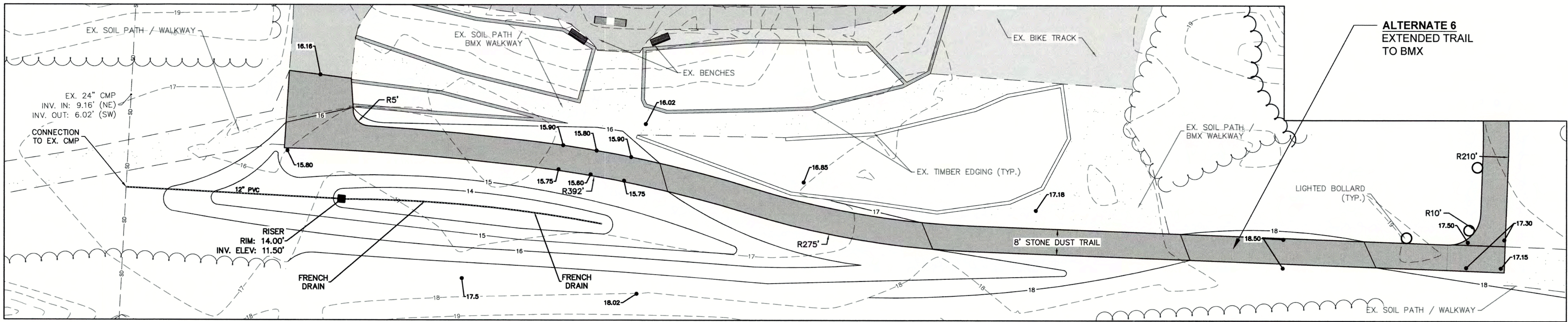
DRAWING NO.
L4.1



ALTERNATES: PRESSURE TREATED TIMBER DECK & SITE FURNISHINGS
SCALE: 1" = 10'



ALTERNATES: DRIVE TO OLD PACTOLUS RD & ADDITIONAL PARKING
SCALE: 1" = 30'



EXTENDED TRAIL TO THE BMX WITH DRAINAGE FEATURES
SCALE: 1" = 20'

GENERAL NOTE:
REFER TO ELECTRICAL SHEETS FOR ALTERNATE 1.



SCALE AS NOTED ABOVE



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No. C-427



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PROJECT NO. 20230059

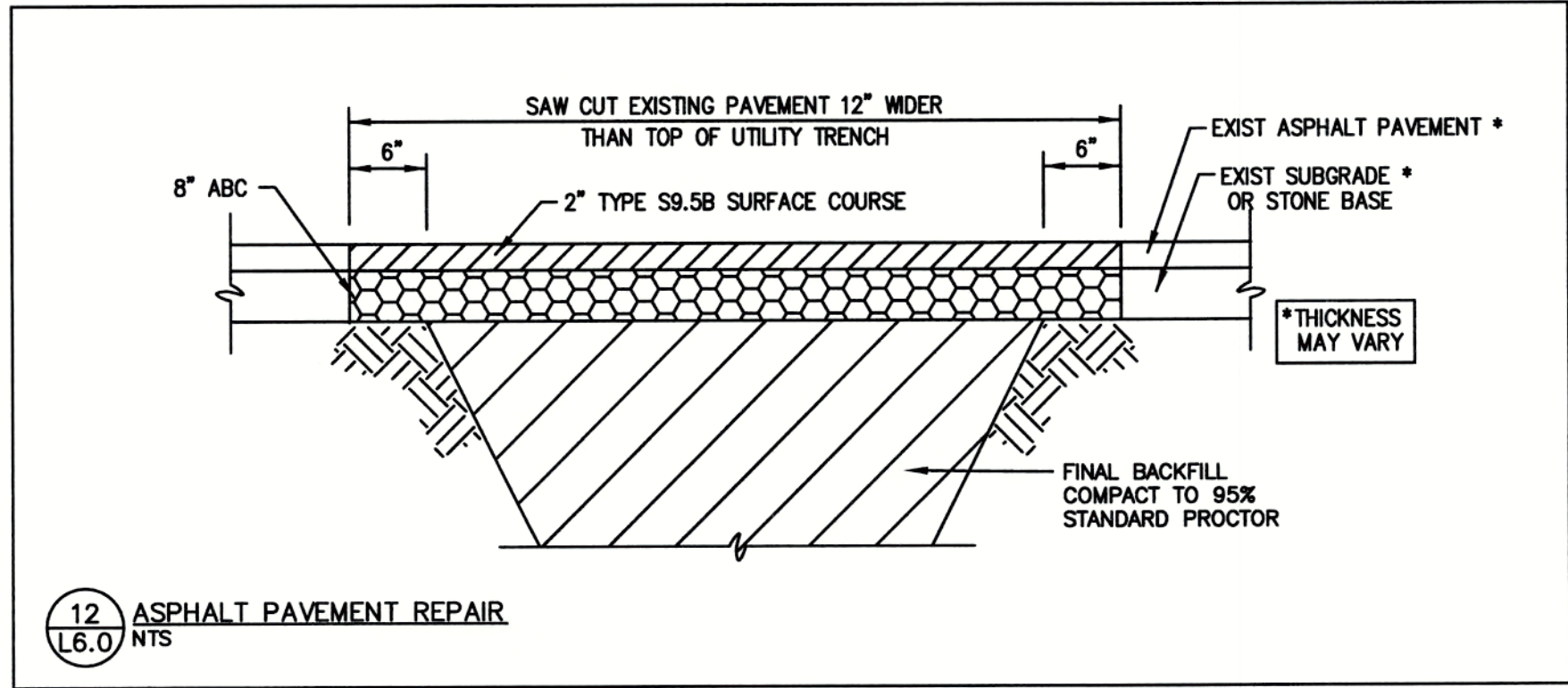
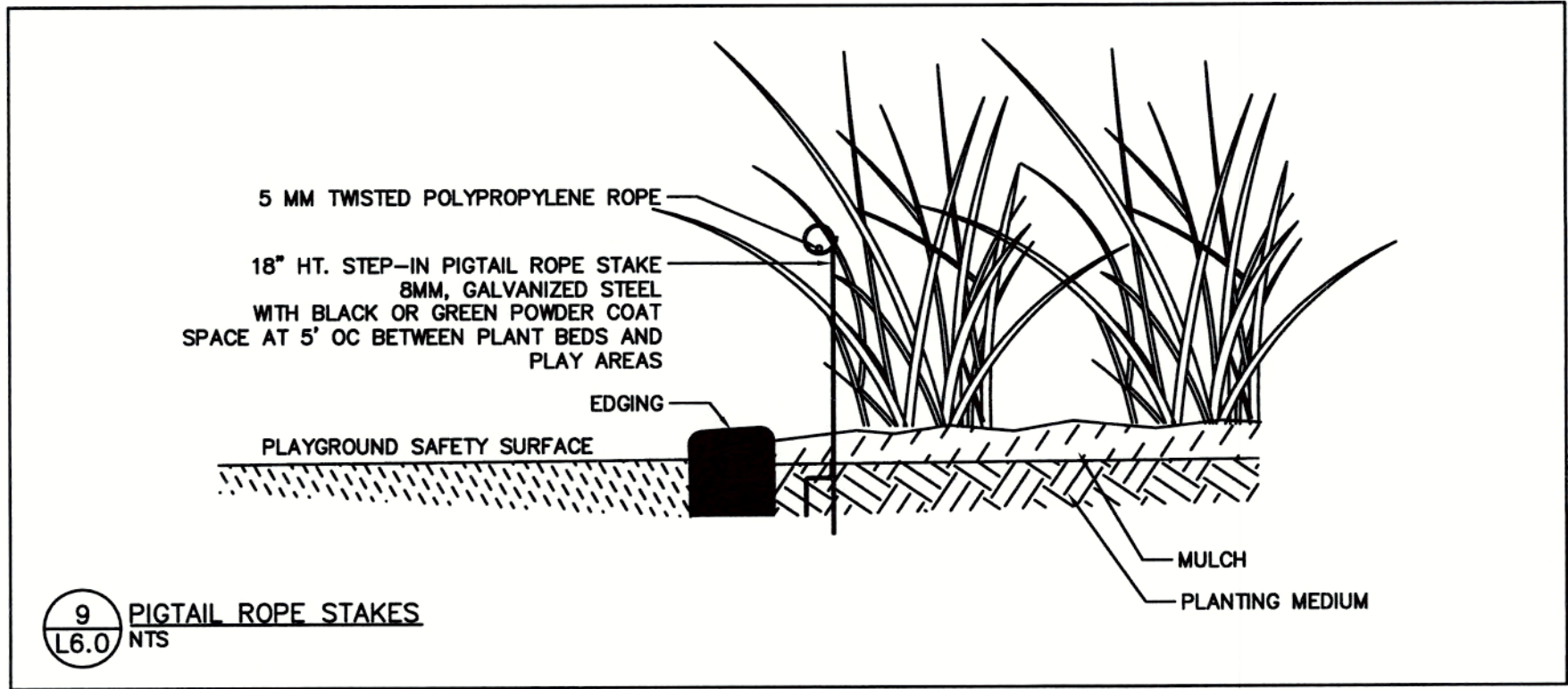
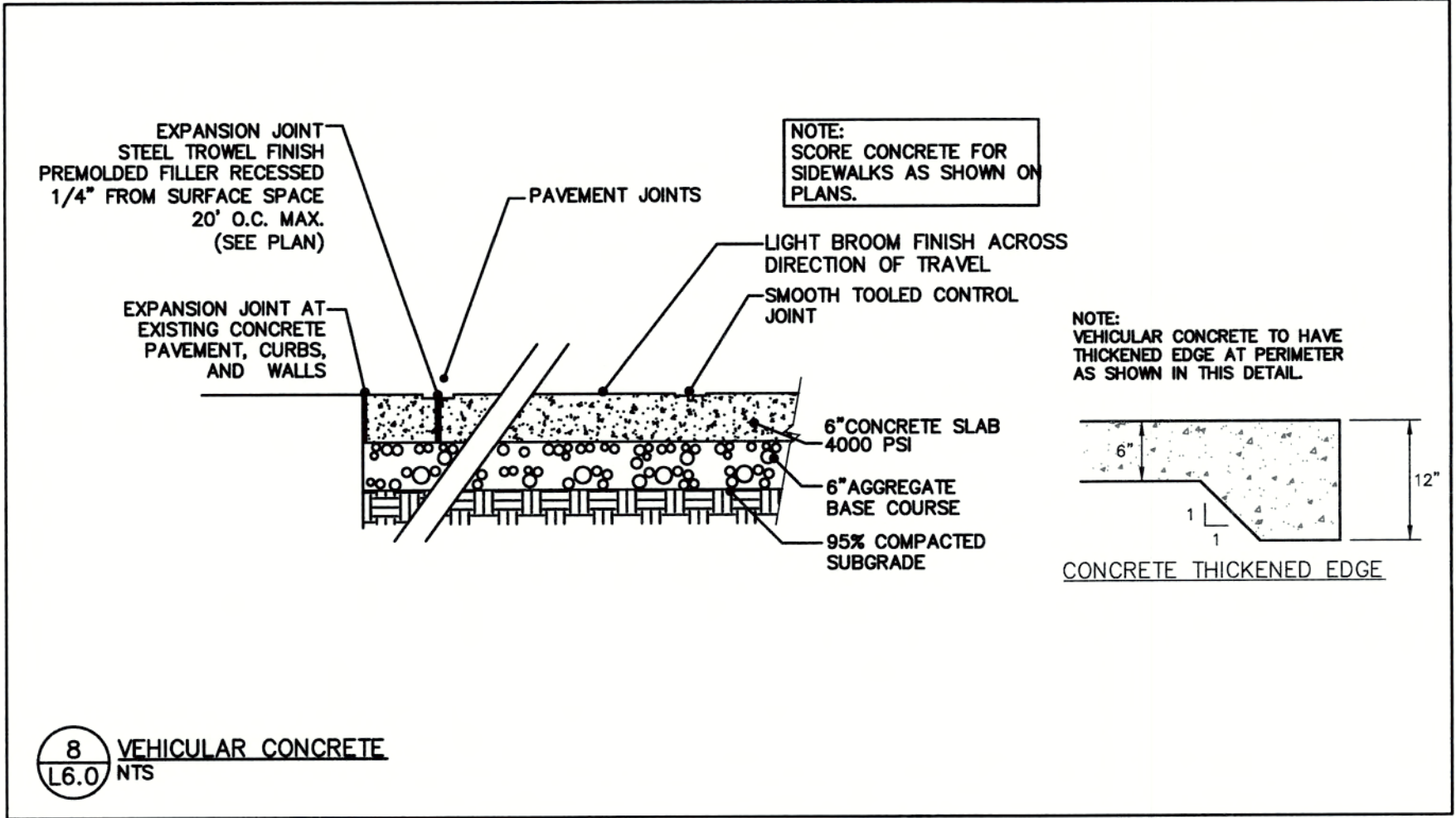
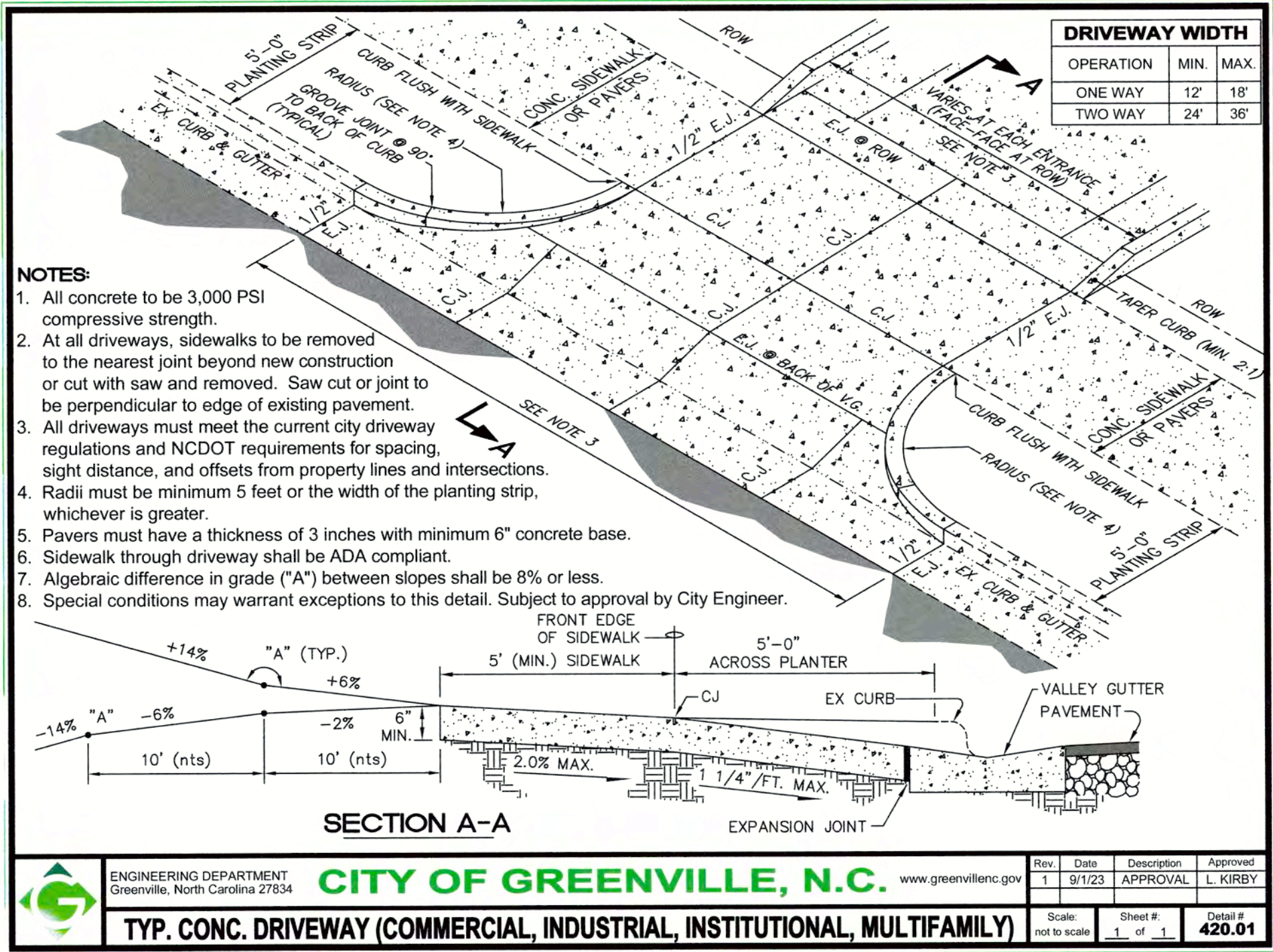
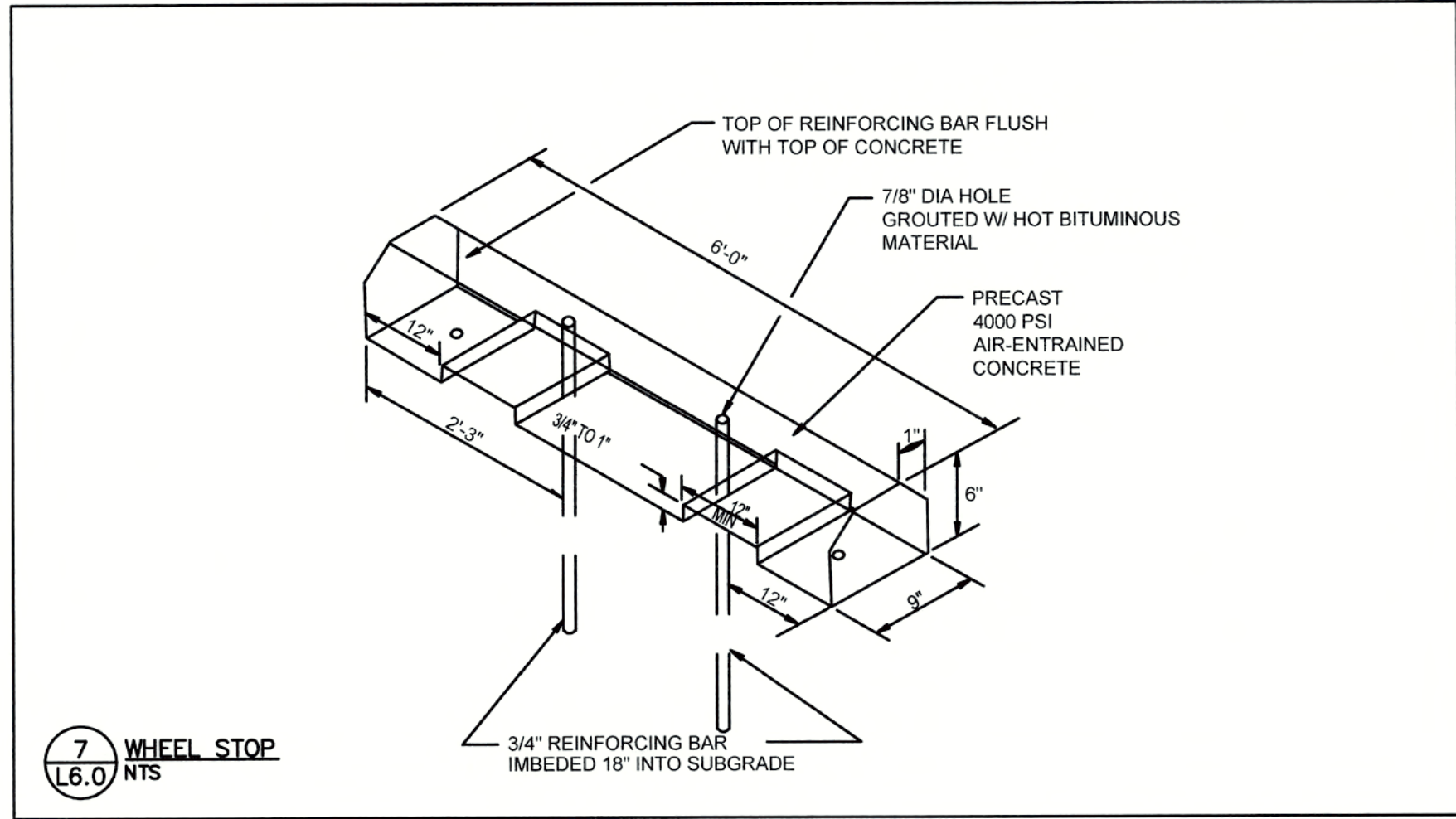
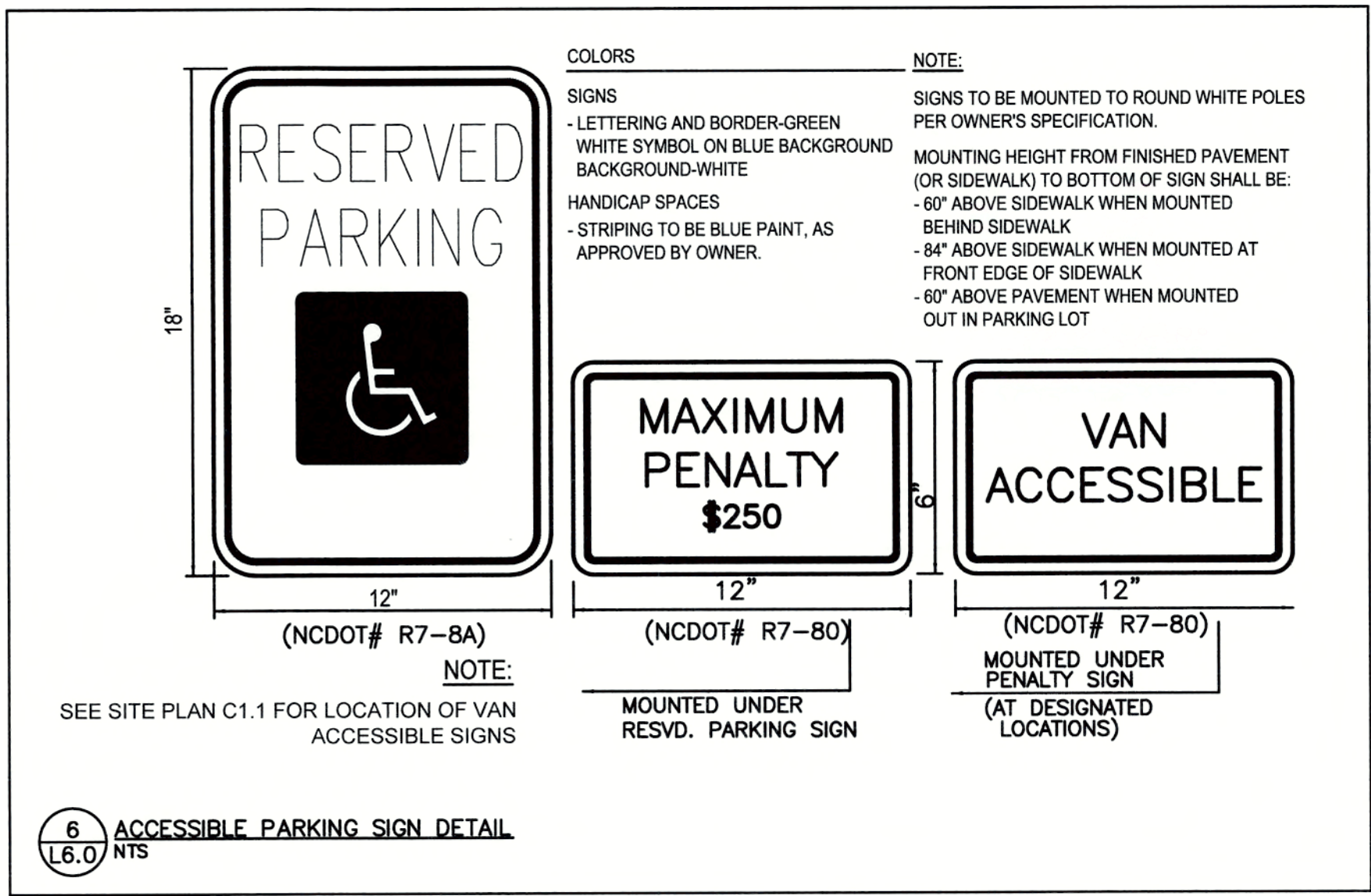
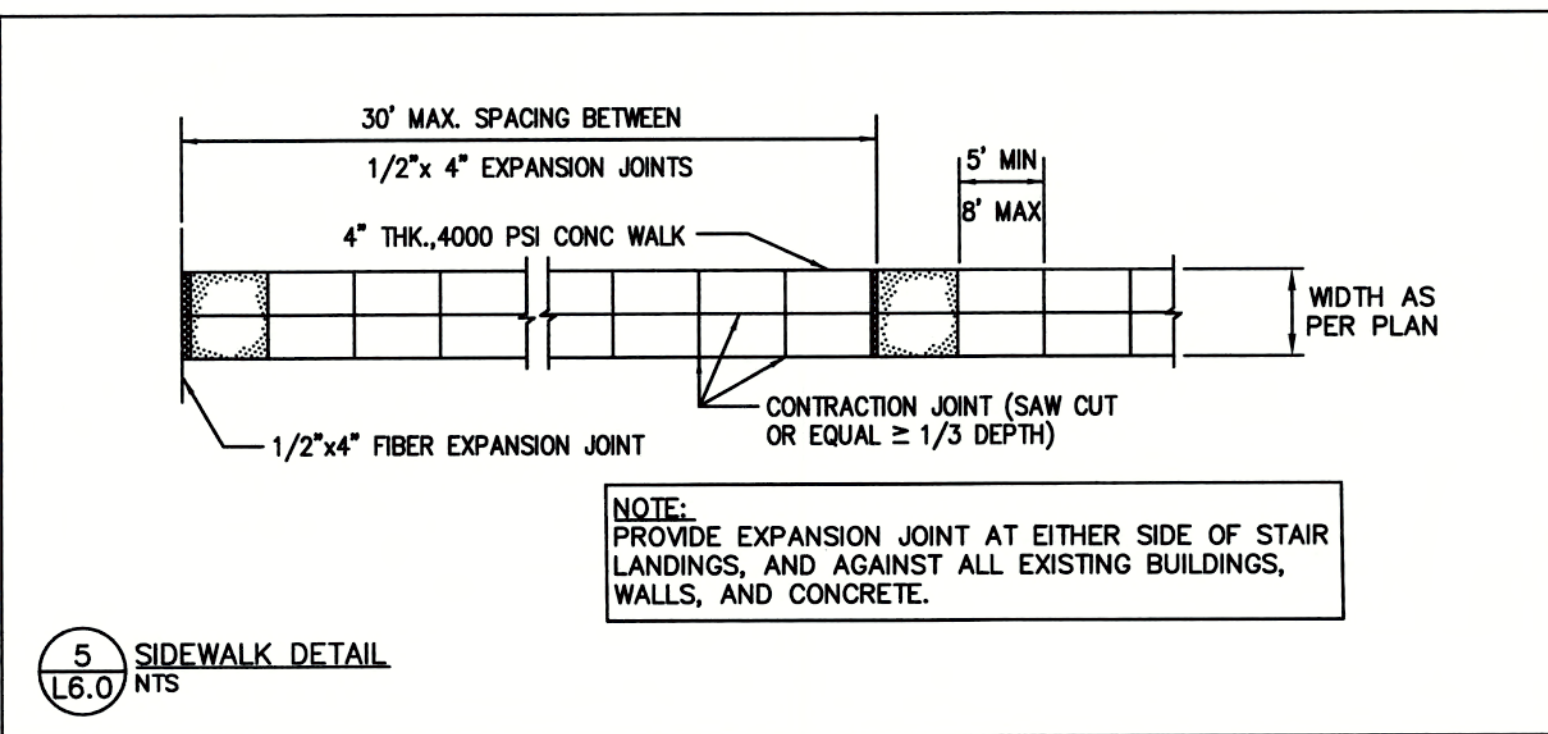
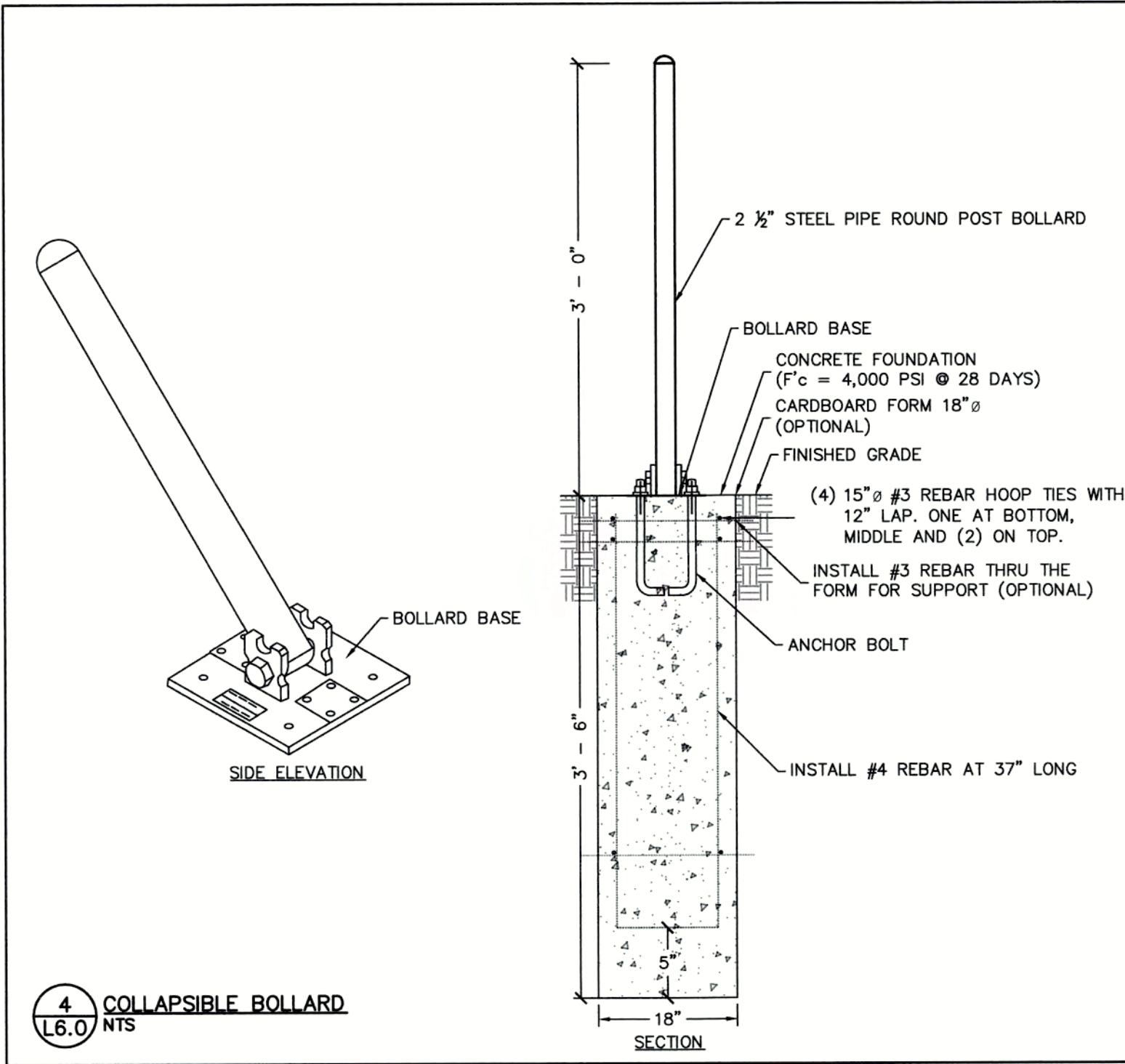
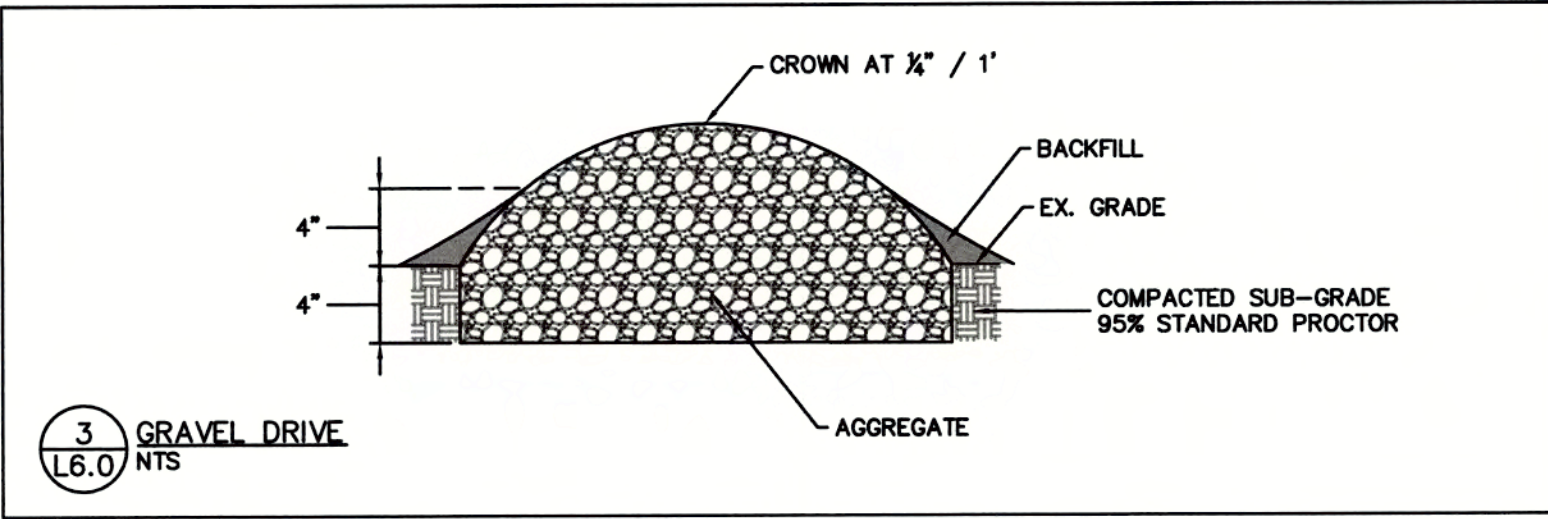
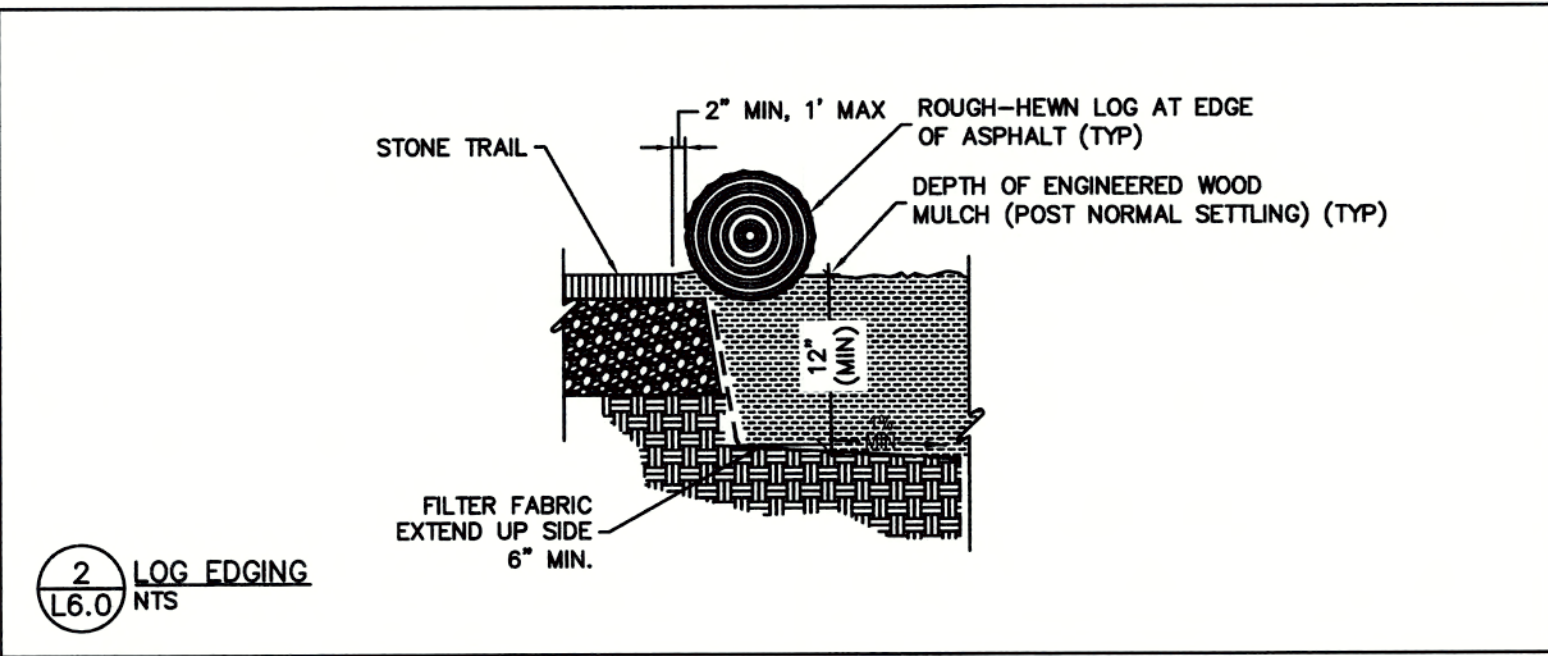
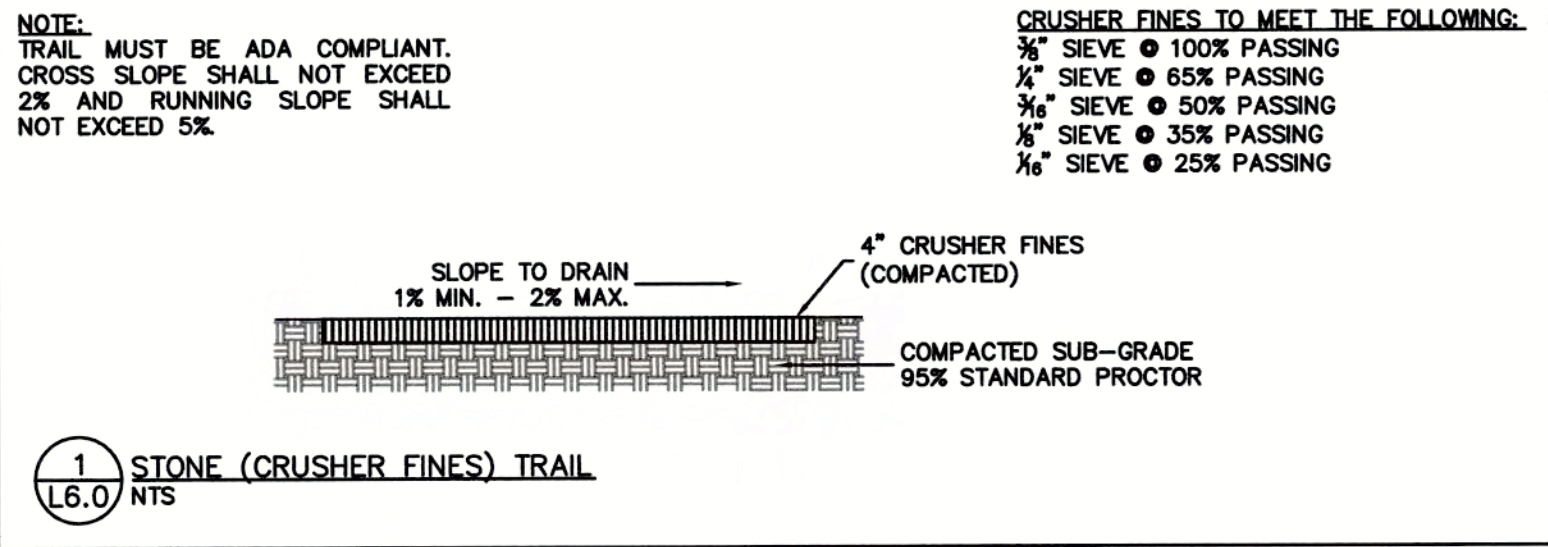
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WILDWOOD PARK
PART I IMPROVEMENTS

DRAWING TITLE
ALTERNATES

DRAWING NO.
L5.0



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DESCRIPTION	DATE	ISSUE FOR CONSTRUCTION
03-01-24		
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TES: PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE:

Greenville
NORTH CAROLINA

WILDWOOD PARK
PART I IMPROVEMENTS

DRAWING TITLE:

SITE DETAILS

DRAWING NO.:

L6.0

Diagram illustrating the sanitary sewerage system layout. The system includes a RESTROOM BLDG. (Restroom Building) and two 2,000 GAL. PUMP TANKS (2,000 Gallon Pump Tanks). The pump tanks are connected to the restroom building via 2" PVC WL (2-inch PVC Wastewater Line). The system also features 2" PVC FM (2-inch PVC Force Main) and 2" PVC WL (2-inch PVC Wastewater Line) sections. A 90° BEND @ 2" (90-degree Bend at 2-inch) is indicated. The diagram shows the flow path from the restroom building through the pump tanks and into the sewer line, which runs parallel to a road labeled "RD 1000".

- CHLORINATION TAP & BACTERIOLOGICAL SAMPLE POINT (BSP)**
- TEMPORARY CHLORINATION TAPS AND BACTERIOLOGICAL SAMPLE POINTS SHALL BE CONSTRUCTED OF THE SAME MATERIALS AS ONE INCH WATER SERVICES. TEMPORARY APPURTENANCES SHALL BE INSTALLED SUCH THAT THE ANGLE BALL VALVE IS SECURELY LOCATED 36" MIN. ABOVE FINISH GRADE. UPON APPROVAL OF FINAL BACTERIOLOGICAL SAMPLES THE TUBING AND ANGLE BALL VALVE SHALL BE REMOVED, THE CORPORATION STOP CLOSED AND A CAP PLACED ON THE CORPORATION STOP.

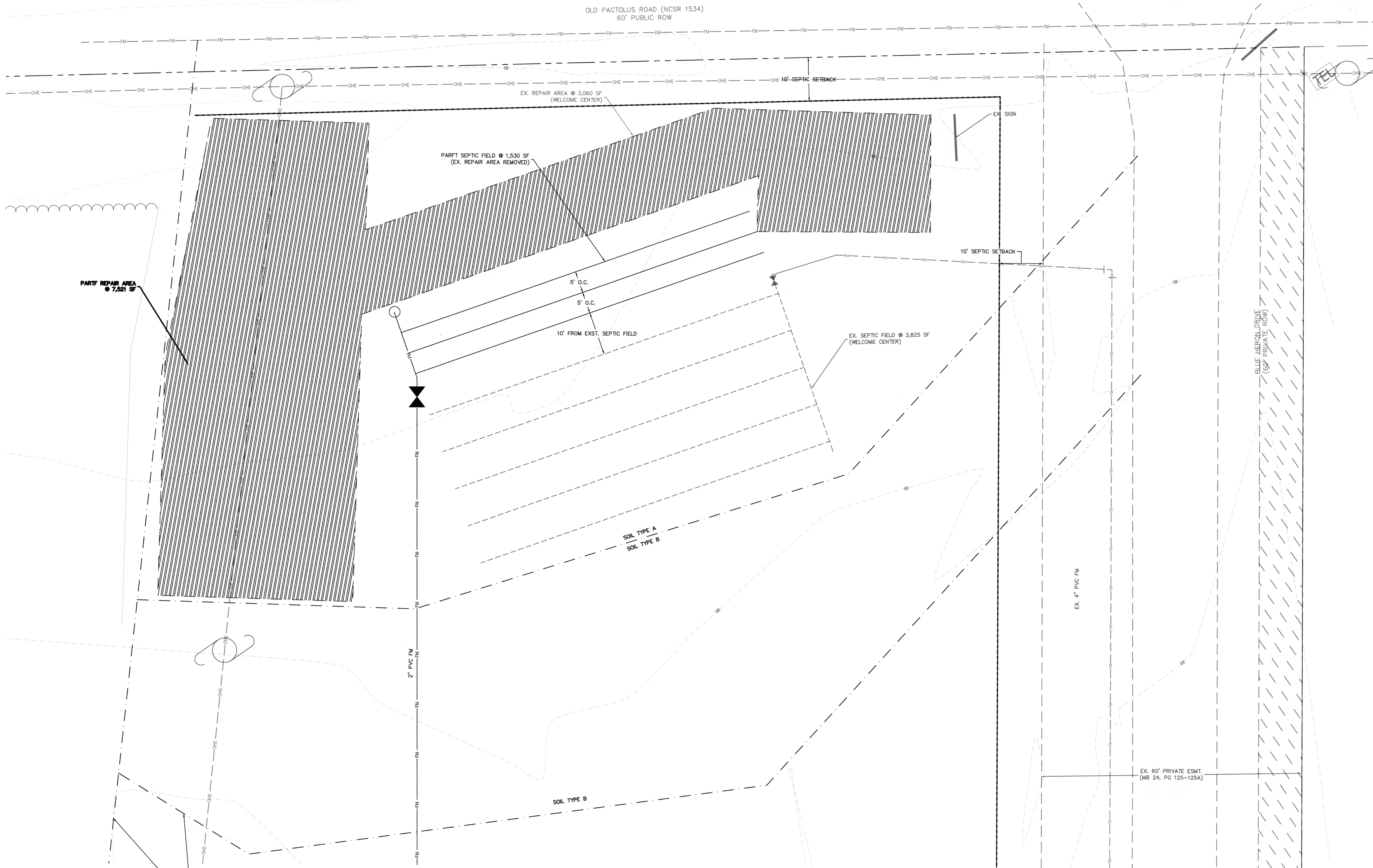
OLD PACTOLUS ROAD (NCSR 1534)
60' PUBLIC ROW



DRAWING NO.

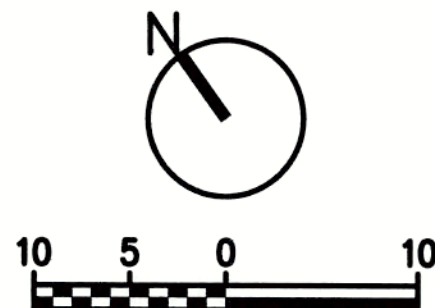
C3.0

\\P12020059 - Wildwood Park Part I Documents - N. Greenville - 06-20-2020 - C SHEETS.dwg



SEPTIC LEGEND:	
	ADDITIONAL REPAIR AREA (SEPTIC)
	SOIL TYPES

SEPTIC CALCULATIONS	
EXISTING (WELCOME CENTER)	
SEPTIC FIELD:	3,825 SF
REPAIR AREA:	3,060 SF
PART I IMPROVEMENTS	
SEPTIC FIELD:	1,530 SF
EXISTING REPAIR AREA REMOVED:	1,530 SF
PART I REPAIR AREA REQUIRED:	5,355 SF
PART I REPAIR AREA PROVIDED:	5,991 SF
TOTAL SEPTIC AREA:	5,355 SF
TOTAL REPAIR AREA:	7,521 SF

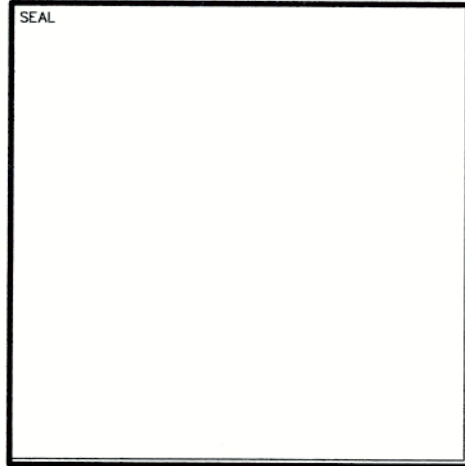


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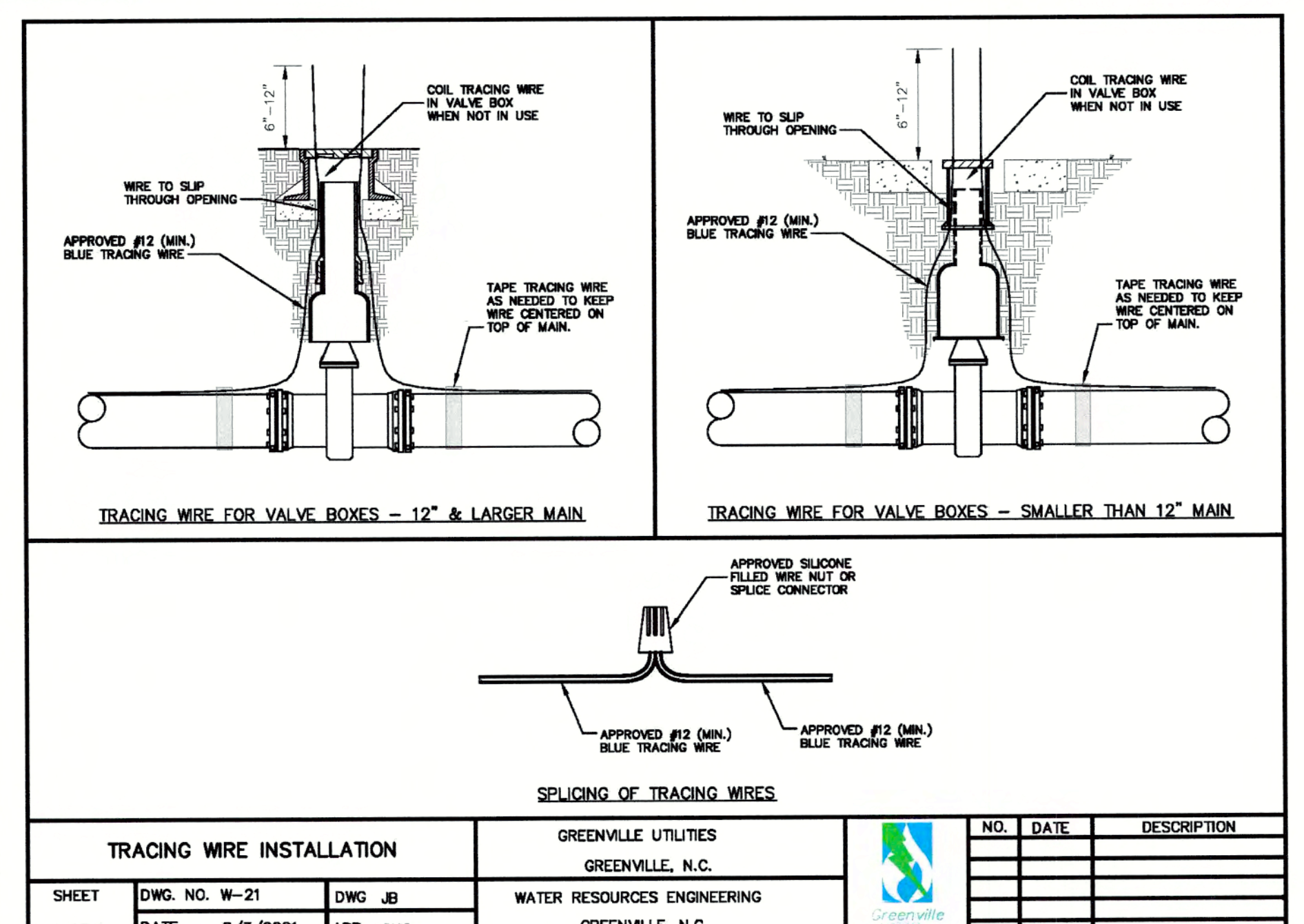
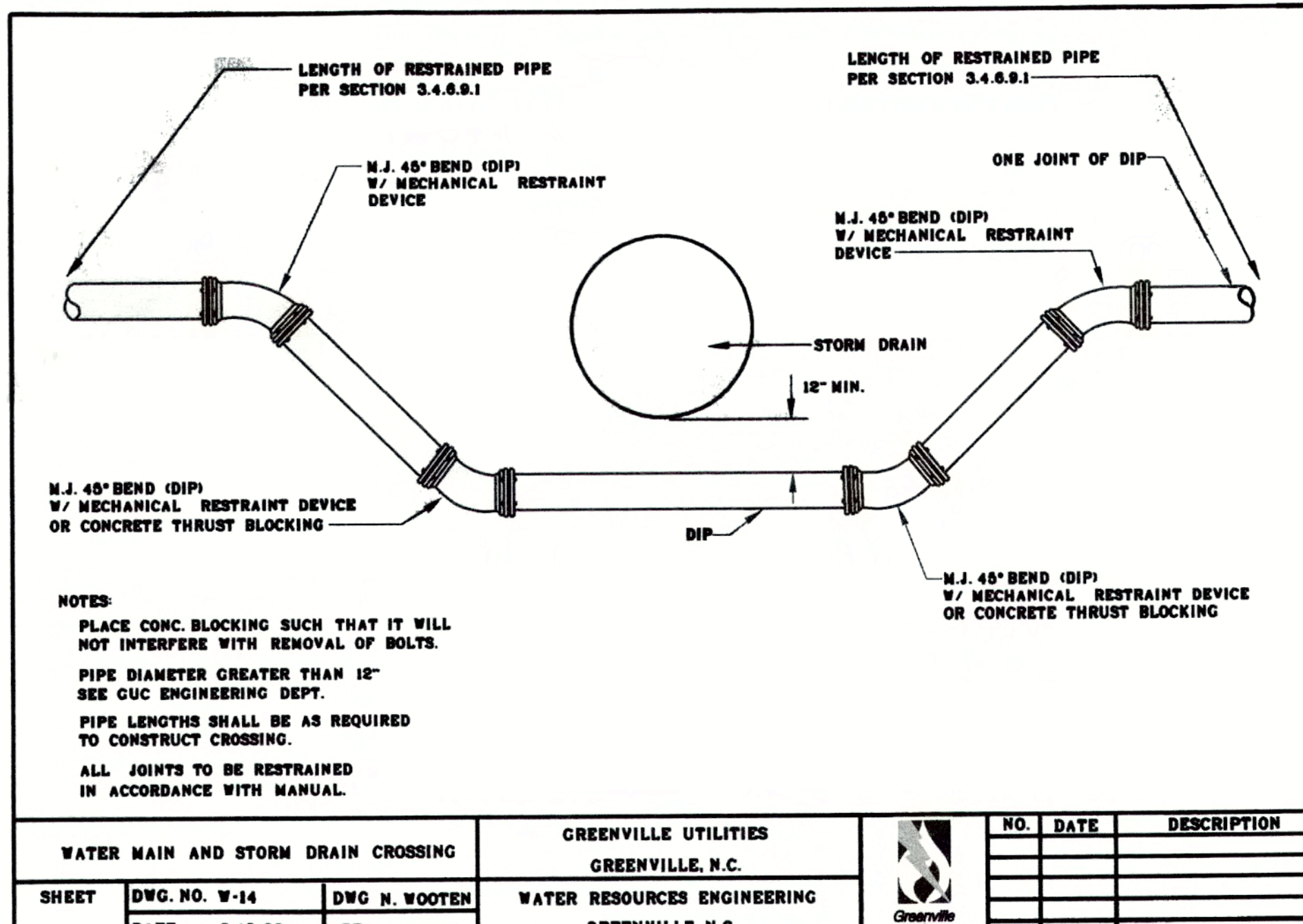
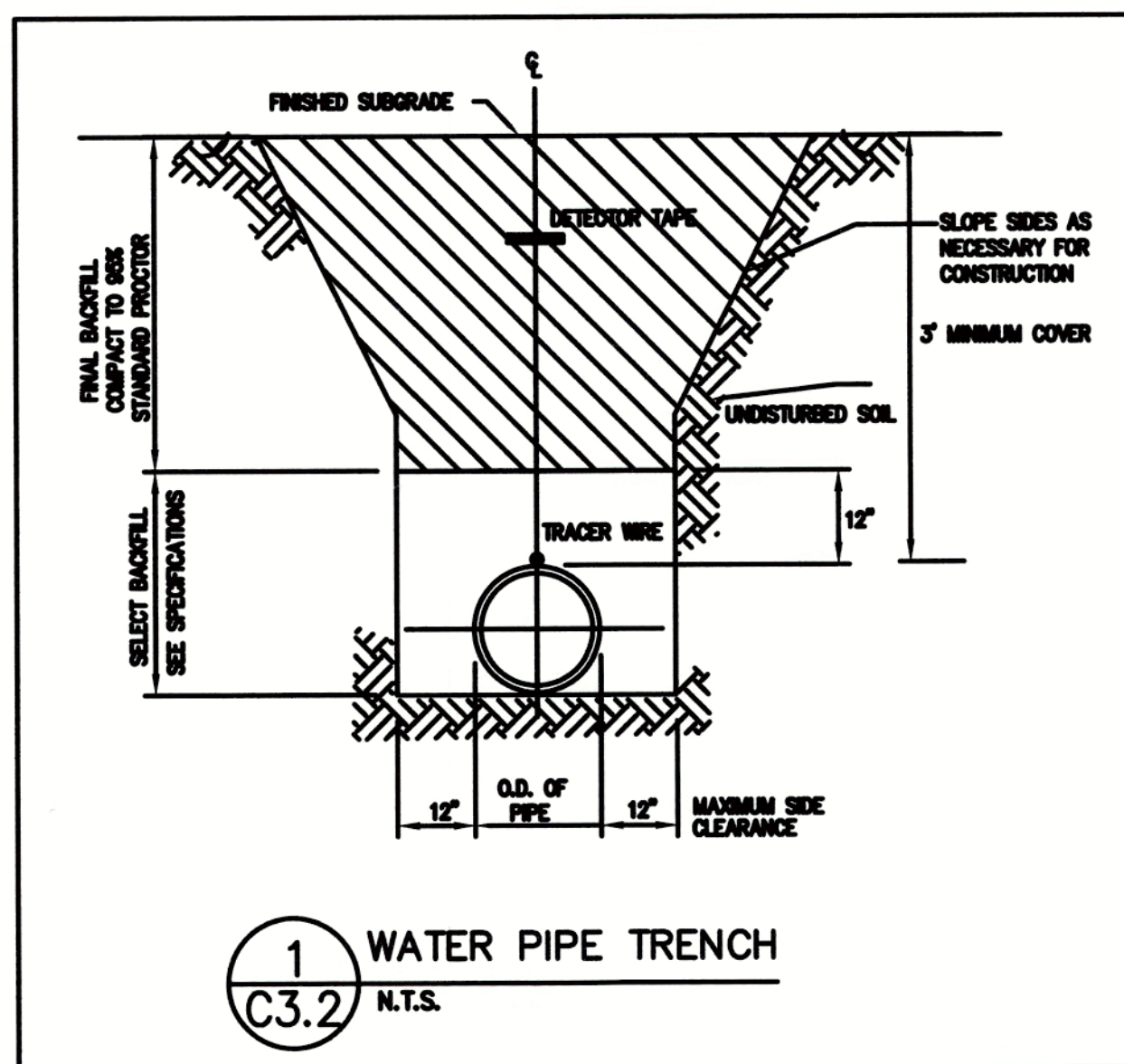
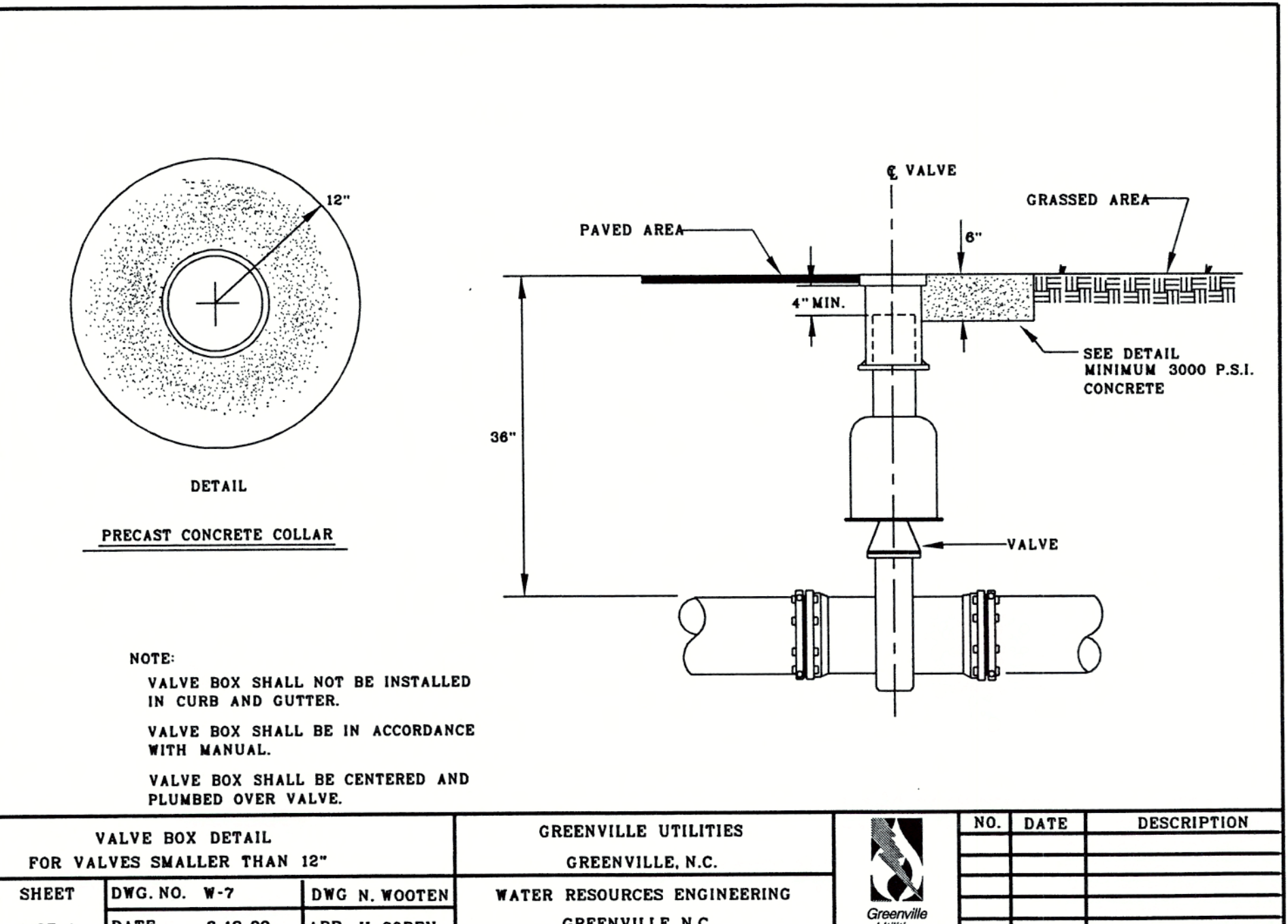
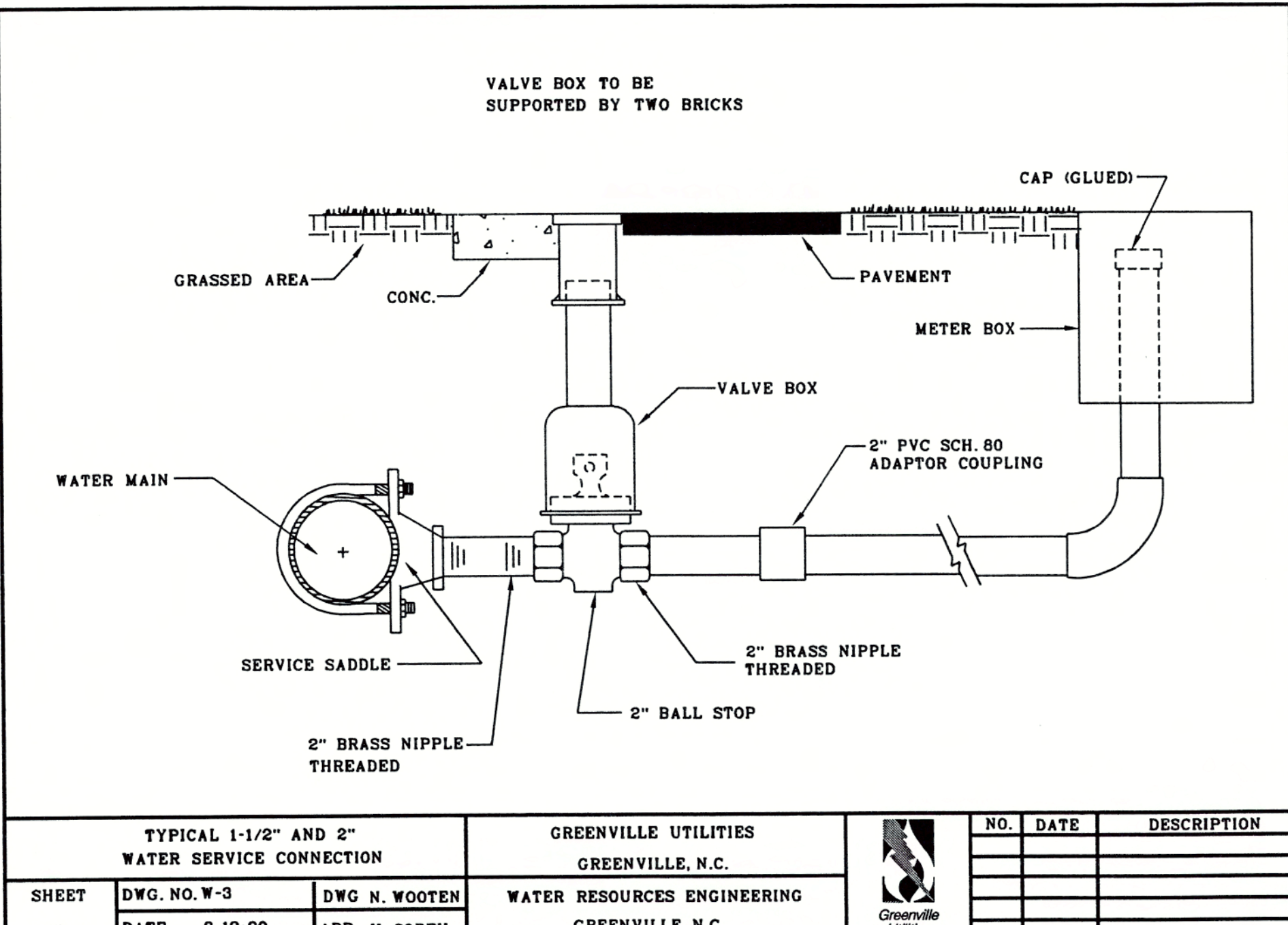
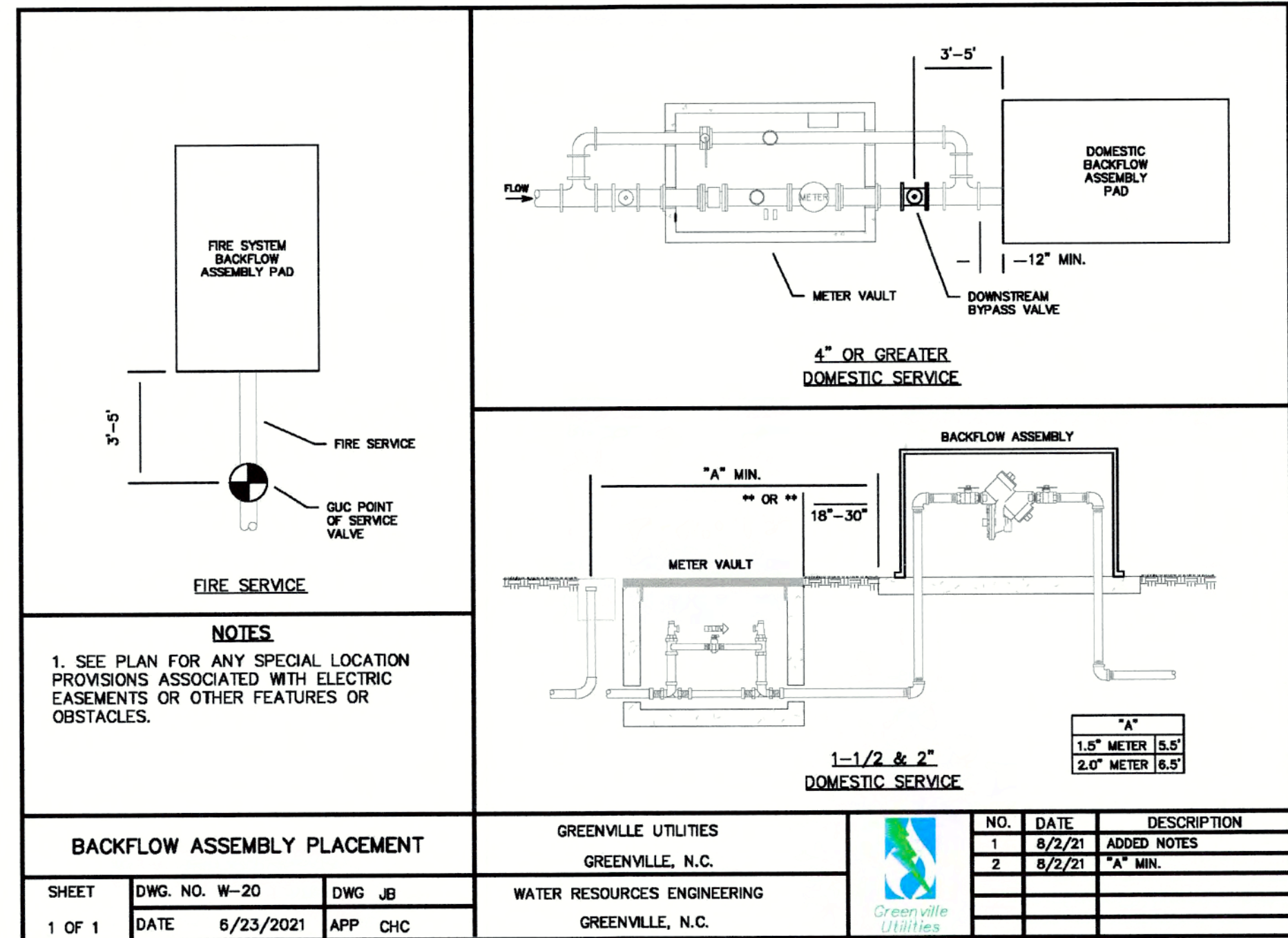
DATE: 12.21.23

PROJECT TITLE
Greenville
NORTH CAROLINA

WILDWOOD PARK
PART I IMPROVEMENTS

DRAWING TITLE
**SEPTIC FIELD PLAN
(FORCE MAIN)**

DRAWING NO: C3.1



- INSTALLATION NOTES:**
- POUR THRUST COLLAR. (LET SET FOR 72 HOURS MINIMUM)
 - CLOSE EXISTING VALVE AT OLD PACTOLUS ROAD.
 - INSTALL NEW VALVE. (GRIPPED TO EXISTING PIPE)
 - OPEN VALVE AT ROAD AND FLUSH WELL.
 - LAY NEW MAIN. (WITH NEW VALVE CLOSED)

SEAL

SEAL



REV	DATE	DESCRIPTION	BY	CHK	MS
0	03-01-24	ISSUE FOR CONSTRUCTION			

TEC PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE



WILDWOOD PARK PARTI IMPROVEMENTS

DRAWING TITLE

UTILITY DETAILS (WATER)

DRAWING NO.

C3.2



C3.3

(C3.3)



C3.3

C3



(C3.3)

SECTION



C3.3

PL

S

(C3.3)

LEGEND

- # LEGEND
- GROUND FAULT INTERRUPTED DUPLEX RECEPTACLE, 20 AMP, 120VAC. WHERE SHOWN, "WP UO" INDICATES WEATHER PROOF IN USE COVER.
- SINGLE POINT ELECTRICAL CONNECTION TO PACKAGED ELECTRICAL EQUIPMENT.
- JUNCTION BOX/DEVICE BOX WITH COVER. LOCATE AS REQUIRED FOR EQUIPMENT SERVED.
- BOLLARD LIGHT FIXTURE. "XX" INDICATES FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE.
- AREA POLE LIGHT PROVIDED & INSTALLED BY GUC. SHOWN FOR COORDINATION PURPOSES ONLY.
- GROUNDING ELECTRODE. ELECTRODE SHALL BE 3/4" DIA. X 10' LONG COPPER CLAD STEEL.
- DEVICE AS INDICATED.
- ELECTRICAL PANEL, SURFACE MOUNTED, TOP OF PANEL 72" AFF UNO. "XXXX" INDICATES PANEL TAG.
- ELECTRICAL PANEL, FLUSH MOUNTED, TOP OF PANEL 72" AFF UNO. "XXXX" INDICATES PANEL TAG.
- REFERENCE TO ENLARGED PLAN, ELEVATION, SECTION, OR DETAIL TOP SECTION INDICATES ENLARGED PLAN, ELEVATION, SECTION OR DETAIL NUMBER. BOTTOM SECTION INDICATES DRAWING ON WHICH ENLARGED PLAN, ELEVATION, SECTION OR DETAIL APPEARS.
- NOTE NUMBER, WHERE "#" INDICATES NOTE NUMBER.
- HOMERUN TO PANELBOARD.
- XXXX-XX INDICATES PANELBOARD & CIRCUIT NUMBER (1 #10 LINE, 1 #10 NEUTRAL, 1 #10 GND, 1" C, UNO.)
- HOMERUN TO PANELBOARD.
- XXXX-XX,XX INDICATES PANELBOARD & CIRCUIT NUMBER (2 #10, 1 #10 GND, UNO, 1" C, UNO.)
- UNSWITCHED CIRCUIT (2 #10, 1 #10 GND, 1" C, UNO.)
- SWITCHED CIRCUIT (2 #10, 1 #10 GND, 1" C, UNO.)
- GROUND, EXTEND AND CONNECT TO APPROVED GROUND.

ELECTRICAL LOAD SUMMARY

ELECTRICAL LOAD SUMMARY

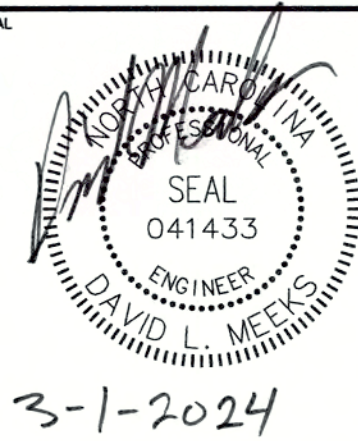
NOTES:
1. LOAD DATA TO BE COMPLETED ONCE PREFAB UNIT SHOP DRAWINGS HAVE BEEN SUBMITTED AND APPROVED.

ELECTRICAL DRAWING INDEX

E0.1	ELECTRICAL LEAD SHEET
E1.1	ELECTRICAL SITE POWER & LIGHTING PLAN
E1.2	ELECTRICAL PANEL SCHEDULES & ONE LINE DIAGRAM
E1.3	ELECTRICAL DETAILS
E1.4	ELECTRICAL EQUIPMENT RACK & DETAILS

TYPE	DESCRIPTION	MANUFACTURER / CATALOG NUMBER	VOLTS	QTY.	TYPE	WATTS	COLOR	REMARKS
B1	WALL BACK, LED, 4000K, DIA-CAST ALUMINUM HOUSING, TEMPERED GLASS LENS, SURFACE MOUNTED, WET LOCATION RATED, IP66, SUITABLE FOR MOUNTING WITHIN 4 FEET OF THE GROUND, DARK BRONZE FINISH.	RAB SLIM12-N OR EQUAL	120		LED	12	4000K	SEE DETAIL 1/E1.3.

NOTES:
1. MANUFACTURER INDICATED FOR LEVEL OF QUALITY, FEATURES AND SIZE REQUIREMENTS. EQUAL PRODUCTS BY OTHER MANUFACTURERS ACCEPTABLE.



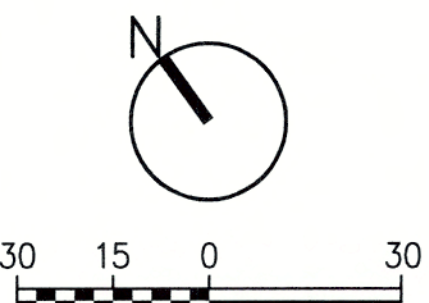
TEC PROJECT NO.	20230059
DATE:	08.31.23
PROJECT TITLE	 Greenville NORTH CAROLINA
	WILDWOOD PARK PARTF IMPROVEMENTS
DRAWING TITLE	ELECTRICAL LEAD SHEET
DRAWING NO.	E0.1

-

[illegible]

SITE POWER & LIGHTING PLAN

E1 1



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NOTES

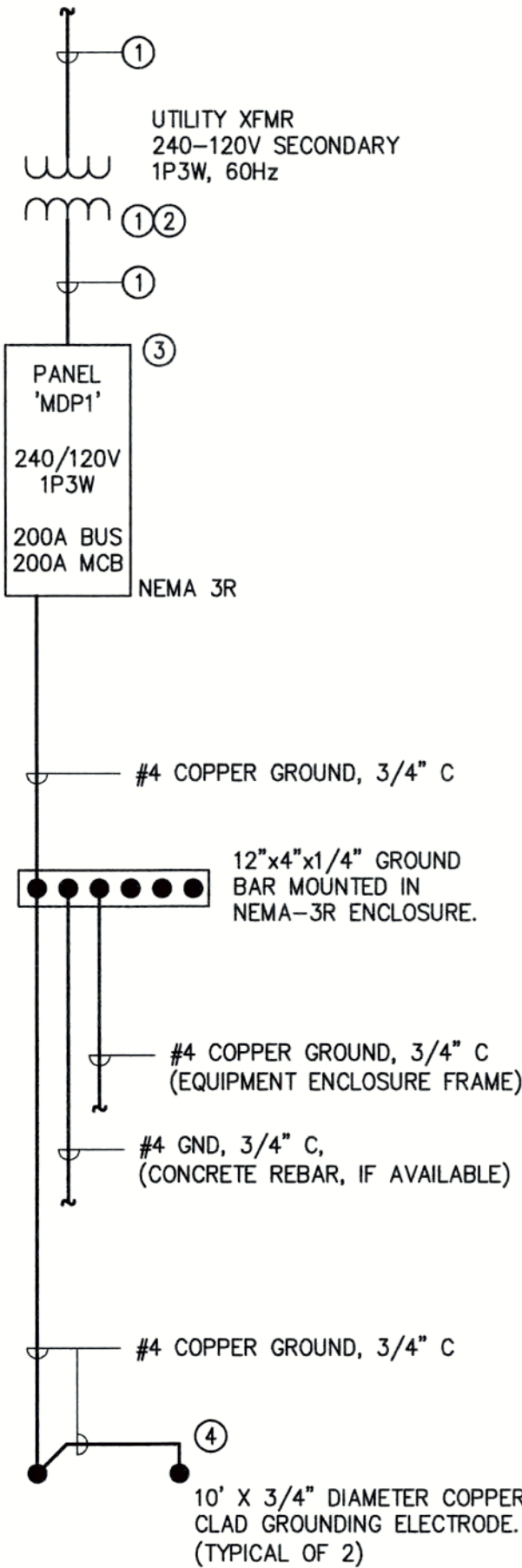
- 1

EC SHALL COORDINATE INSTALLATION W/ UTILITY COMPANY FOR ALL UTILITY SERVICE REQUIREMENTS. ~~UNLESS DIRECTED OTHERWISE BY UTILITY COMPANY,~~ UTILITY COMPANY TO PROVIDE SECONDARY WIRING & CONDUIT FROM UTILITY TRANSFORMER TO MDPL, FINAL CONNECTIONS AT MDPL BY UTILITY COMPANY.
- 2

EC SHALL COORDINATE UTILITY TRANSFORMER LOCATION WITH GC AND UTILITY COMPANY.
- 3

THE MAXIMUM AVAILABLE FAULT CURRENT AT THE ELECTRICAL UTILITY COMPANY'S POINT OF DELIVERY (TRANSFORMER SECONDARY) IS 3,721 SYMMETRICAL RMS AMPS. THE FAULT CURRENT VALUE WAS PROVIDED BY THE ELECTRICAL UTILITY COMPANY ON 09-15-2023. PROVIDE A LABEL ON THE FRONT OF THE SE RATED DISCONNECT SWITCH PER NEC 110.24.
- 4

GROUNDING ELECTRODE SHALL BE 3/4" DIA. X 10' LONG COPPER CLAD STEEL. CONNECTION TO CONDUCTOR SHALL BE EXOTHERMIC WELD.



1
E1.2
NTS
ELECTRICAL RISER DIAGRAM

NOTES

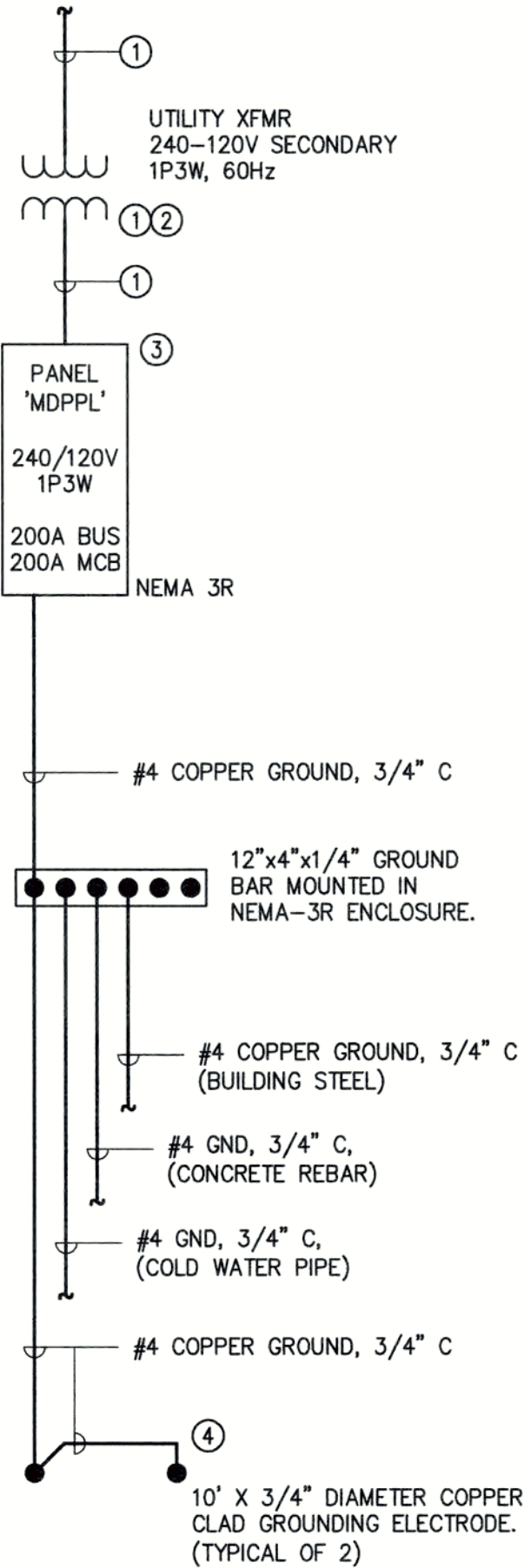
- 1

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2
E1.2
NTS
ELECTRICAL RISER DIAGRAM

NOTES

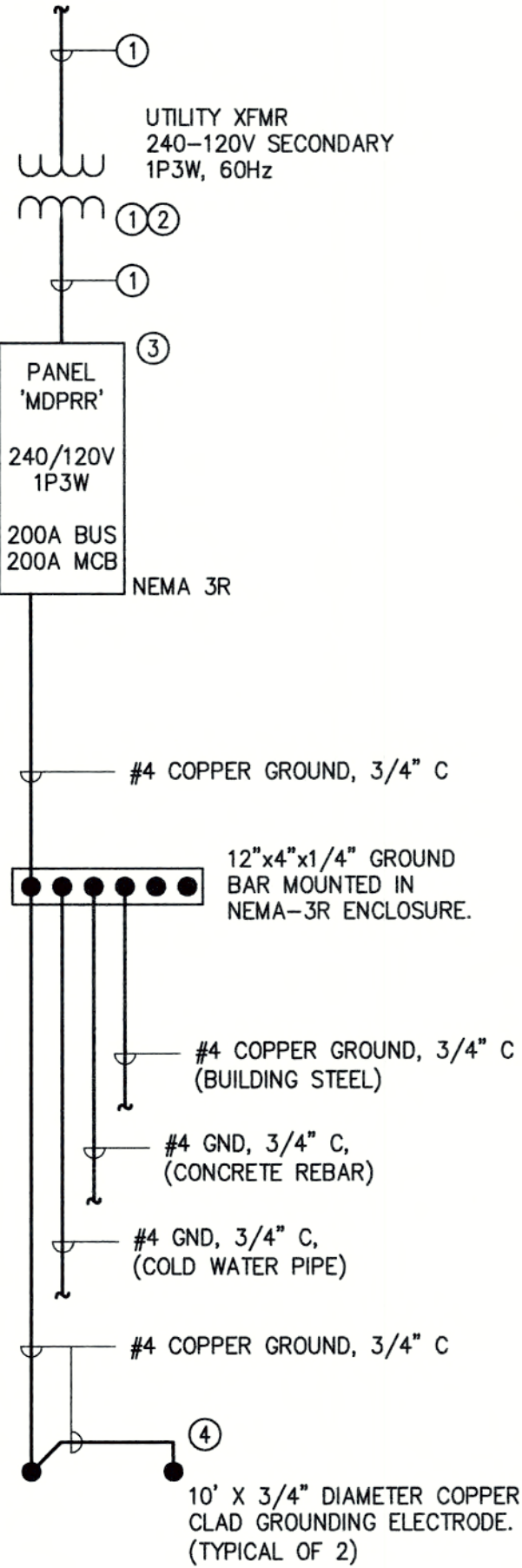
- 1

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- 4

GROUNDING ELECTRODE SHALL BE 3/4" DIA. X 10' LONG COPPER CLAD STEEL. CONNECTION TO CONDUCTOR SHALL BE EXOTHERMIC WELD.



3
E1.2
NTS
ELECTRICAL RISER DIAGRAM

PANELBOARD			MDP1			VOLTAGE: ☒ 240/120V, 1 PHASE, 3 WIRE								
MOUNTING: ☐ FLUSH ☒ SURFACE		MAIN: ☐ LUGS ONLY ☒ MAIN BREAKER		BUS: 200 A TRIP: 200 A		☐ TOP ☒ BOTTOM		NEUTRAL: ☐ NONE ☒ 50% ☒ 100%						
COVER: ☒ DOOR WITH LOCK ☐ DOOR WITHOUT LOCK				☒ WITH HINGABLE COVER ☐ WITHOUT HINGABLE COVER		ALL BRANCH BREAKERS 20A 1 POLE UNLESS NOTED OTHERWISE U/L LISTED BREAKER INTERRUPTING CAPACITY: 22,000 A RMS. SYM. MIN.								
DESCRIPTION	LOAD	CKT NO.		CKT NO.	DESCRIPTION	LOAD	PHASE LOAD (AMPS)							
							L1	L2						
SPACE	0.0	1		2	RECEPTACLE - EQUIPMENT RACK	1.5	1.5							
SPACE	0.0	3		4	RECEPTACLE - HOT BOX	10.0		10.0						
SPACE	0.0	5		6	SPARE	0.0	0.0							
SPACE	0.0	7		8	SPARE	0.0		0.0						
SPACE	0.0	9		10	SPACE	0.0	0.0							
SPACE	0.0	11		12	SPACE	0.0		0.0						
SPACE	0.0	13		14	SPACE	0.0	0.0							
SPACE	0.0	15		16	SPACE	0.0		0.0						
SPACE	0.0	17		18	SPACE	0.0	0.0							
SPACE	0.0	19		20	SPACE	0.0		0.0						
SPACE	0.0	21		22	SPACE	0.0	0.0							
SPACE	0.0	23		24	SPACE	0.0		0.0						
SPACE	0.0	25		26	SPACE	0.0	0.0							
SPACE	0.0	27		28	TVSS (SEE NOTE 3)	0.0		0.0						
SPACE	0.0	29		30		0.0	0.0							
PANELBOARD LOCATION: HOT BOX				MANUFACTURER: _____										
_____				MODEL/CAT. NO.: _____										
_____				FEED: SEE ELECTRICAL ONE LINE DIAGRAM										
				<table border="1"><tr><td>TOTAL</td><td>L1</td><td>1.5</td></tr><tr><td>TOTAL</td><td>L2</td><td>10.0</td></tr></table>					TOTAL	L1	1.5	TOTAL	L2	10.0
TOTAL	L1	1.5												
TOTAL	L2	10.0												
KEY: MULTIPOLE BREAKER GFI BREAKER LOCKOFF ATTACH SWITCH DUTY														
PADLOCK ATTACH HACR HID RATED ARC FAULT														

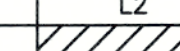
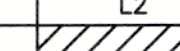
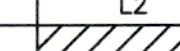
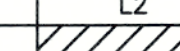
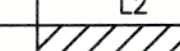
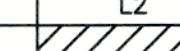
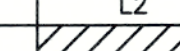
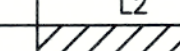
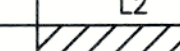
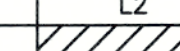
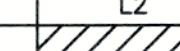
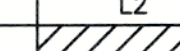
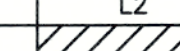
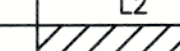
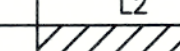
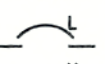
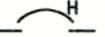
- NOTES:
- 1

COMBINATION METER-PANEL SERVICE ENTRANCE DEVICE.
- 2

PROVIDE WITH NEMA-3R ENCLOSURE.
- 3

PROVIDE WITH SPD, SURGE CURRENT CAPACITY 36KA.
- 4

ALL PENETRATIONS SHALL BE MADE ON THE BOTTOM OF THE ENCLOSURE, TOP OR SIDE PENETRATIONS NOT ALLOWED.

PANELBOARD MDPL				VOLTAGE: ☒ 240/120V, 1 PHASE, 3 WIRE											
MOUNTING: ☐ FLUSH ☒ SURFACE		MAIN: ☐ LUGS ONLY ☒ MAIN BREAKER		BUS: 200 A TRIP: 200 A		☐ TOP ☒ BOTTOM		NEUTRAL: ☐ NONE ☒ 50% ☒ 100%							
COVER: ☒ DOOR WITH LOCK ☐ DOOR WITHOUT LOCK				☒ WITH HINGABLE COVER ☐ WITHOUT HINGABLE COVER		ALL BRANCH BREAKERS 20A 1 POLE UNLESS NOTED OTHERWISE U/L LISTED BREAKER INTERRUPTING CAPACITY: 22,000 A RMS. SYM. MIN.									
DESCRIPTION		LOAD	CKT NO.		CKT NO.	DESCRIPTION		LOAD	PHASE LOAD (AMPS)						
									L1	L2					
SPACE		0.0	1		2	RECEPTACLE - EQUIPMENT RACK		1.5	1.5						
SPACE		0.0	3		4	SPARE		0.0		0.0					
SPACE		0.0	5		6	SPARE		0.0	0.0						
SPACE		0.0	7		8	SPARE		0.0		0.0					
SPACE		0.0	9		10	SPACE		0.0	0.0						
SPACE		0.0	11		12	SPACE		0.0		0.0					
SPACE		0.0	13		14	SPACE		0.0	0.0						
SPACE		0.0	15		16	SPACE		0.0		0.0					
SPACE		0.0	17		18	SPACE		0.0	0.0						
SPACE		0.0	19		20	SPACE		0.0		0.0					
SPACE		0.0	21		22	SPACE		0.0	0.0						
SPACE		0.0	23		24	SPACE		0.0		0.0					
SPACE		0.0	25		26	SPACE		0.0	0.0						
SPACE		0.0	27		28	TVSS (SEE NOTE 3)		0.0		0.0					
SPACE		0.0	29		30			0.0	0.0						
PANELBOARD LOCATION: PARKING LOT				MANUFACTURER: _____											
_____				MODEL/CAT. NO.: _____											
_____				FEED: SEE ELECTRICAL ONE LINE DIAGRAM											
_____				<table border="1"><tr><td>TOTAL</td><td>L1</td><td>1.5</td></tr><tr><td>TOTAL</td><td>L2</td><td>0.0</td></tr></table>						TOTAL	L1	1.5	TOTAL	L2	0.0
TOTAL	L1	1.5													
TOTAL	L2	0.0													
KEY:  MULTIPOLE BREAKER				 GFI BREAKER		 LOCKOFF ATTACH		 SWITCH DUTY							
				 PADLOCK ATTACH		 HACR		 HID RATED							
				 ARC FAULT											

- NOTES:
- 1

COMBINATION METER-PANEL SERVICE ENTRANCE DEVICE.
- 2

PROVIDE WITH NEMA-3R ENCLOSURE.
- 3

PROVIDE WITH SPD, SURGE CURRENT CAPACITY 36KA.
- 4

ALL PENETRATIONS SHALL BE MADE ON THE BOTTOM OF THE ENCLOSURE, TOP OR SIDE PENETRATIONS NOT ALLOWED.

PANELBOARD			MDPRR			VOLTAGE: ☒ 240/120V, 1 PHASE, 3 WIRE				
MOUNTING: ☐ FLUSH ☒ SURFACE		MAIN: ☐ LUGS ONLY ☒ MAIN BREAKER		BUS: 200 A TRIP: 200 A		☐ TOP ☒ BOTTOM		NEUTRAL: ☐ NONE ☒ 50% ☒ 100%		
COVER: ☒ DOOR WITH LOCK ☐ DOOR WITHOUT LOCK				☒ WITH HINGABLE COVER ☐ WITHOUT HINGABLE COVER		ALL BRANCH BREAKERS 20A 1 POLE UNLESS NOTED OTHERWISE U/L LISTED BREAKER INTERRUPTING CAPACITY: 22,000 A RMS. SYM. MIN.				
DESCRIPTION	LOAD	CKT NO.		CKT NO.	DESCRIPTION	LOAD	PHASE LOAD (AMPS)			
							L1	L2		
SPACE	0.0	1		2	TIME CLOCK	1.0	1.0			
SPACE	0.0	3		4	PATHWAY LIGHTS	2.5		2.5		
SPACE	0.0	5		6	SPACE	0.0	0.0			
SPACE	0.0	7		8	SPACE	0.0		0.0		
SPACE	0.0	9		10	SPACE	0.0	0.0			
SPACE	0.0	11		12	SPACE	0.0		0.0		
SPACE	0.0	13		14	SPACE	0.0	0.0			
SPACE	0.0	15		16	SPACE	0.0		0.0		
SPACE	0.0	17		18	SPACE	0.0	0.0			
SPACE	0.0	19		20	SPACE	0.0		0.0		
SPACE	0.0	21		22	SPACE	0.0	0.0			
SPACE	0.0	23		24	SEWER LIFT STATION (SEE NOTE 3)	24.0		24.0		
SPACE	0.0	25		26		24.0	24.0			
SPACE	0.0	27		28		0.0		0.0		
SPACE	0.0	29		30	RESERVED FOR TVSS	0.0				
						0.0	0.0			
PANELBOARD LOCATION: RESTROOM				MANUFACTURER: _____				TOTAL L1 25.0		
MODEL/CAT. NO.: _____				FEED: SEE ELECTRICAL ONE LINE DIAGRAM				TOTAL L2 26.5		
KEY: MULTIPOLE BREAKER GFI BREAKER LOCKOFF ATTACH SWITCH DUTY HID RATED ARC FAULT										

- NOTES:
- 1

COMBINATION METER-PANEL SERVICE ENTRANCE DEVICE.
- 2

NEMA-3R
- 3

PROVIDE & INSTALL BREAKER IS NOT SUPPLIED WITH PANEL.

THE EAST GROUP

Engineering Architecture
Surveying Technology

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Tel 919.784.9330
Fax 919.784.9331

NC Engineering License No. C-0206
NC Architectural License No. 90213
NC Landscape Architectural License
No. C-427

SEAL

3-1-2024

SEAL

CHK	BY	DATE	DESCRIPTION
			95% CONSTRUCTION DOCUMENTS
			REVISED 95% CDs
			ISSUE FOR CONSTRUCTION

TEC PROJECT NO. 20230059

DATE: 08.31.23

PROJECT TITLE

Greenville
NORTH CAROLINA

WILDWOOD PARK
PART I IMPROVEMENTS

DRAWING TITLE

ELECTRICAL
PANEL SCHEDULES,
ONE LINE DIAGRAM
& DETAILS

DRAWING NO.

E1.2



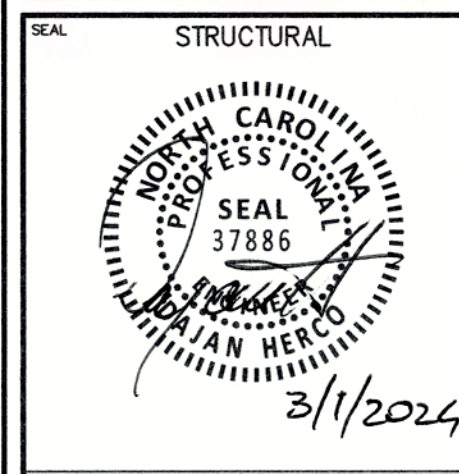
-
- 120VAC (MDPRR-2)
- TIME CLOCK
- TCA
- H-O-A
- 100X
- X00
- CRA
- C
- MDP RR-4
- SPARE
- SPARE
- SPARE
- LOAD CONTACTS
- LIGHTS - PATHWAY
- SPARE
- SPARE



THE EAST GROUP

- **Engineering** ■ **Architecture**
- **Surveying** ■ **Technology**

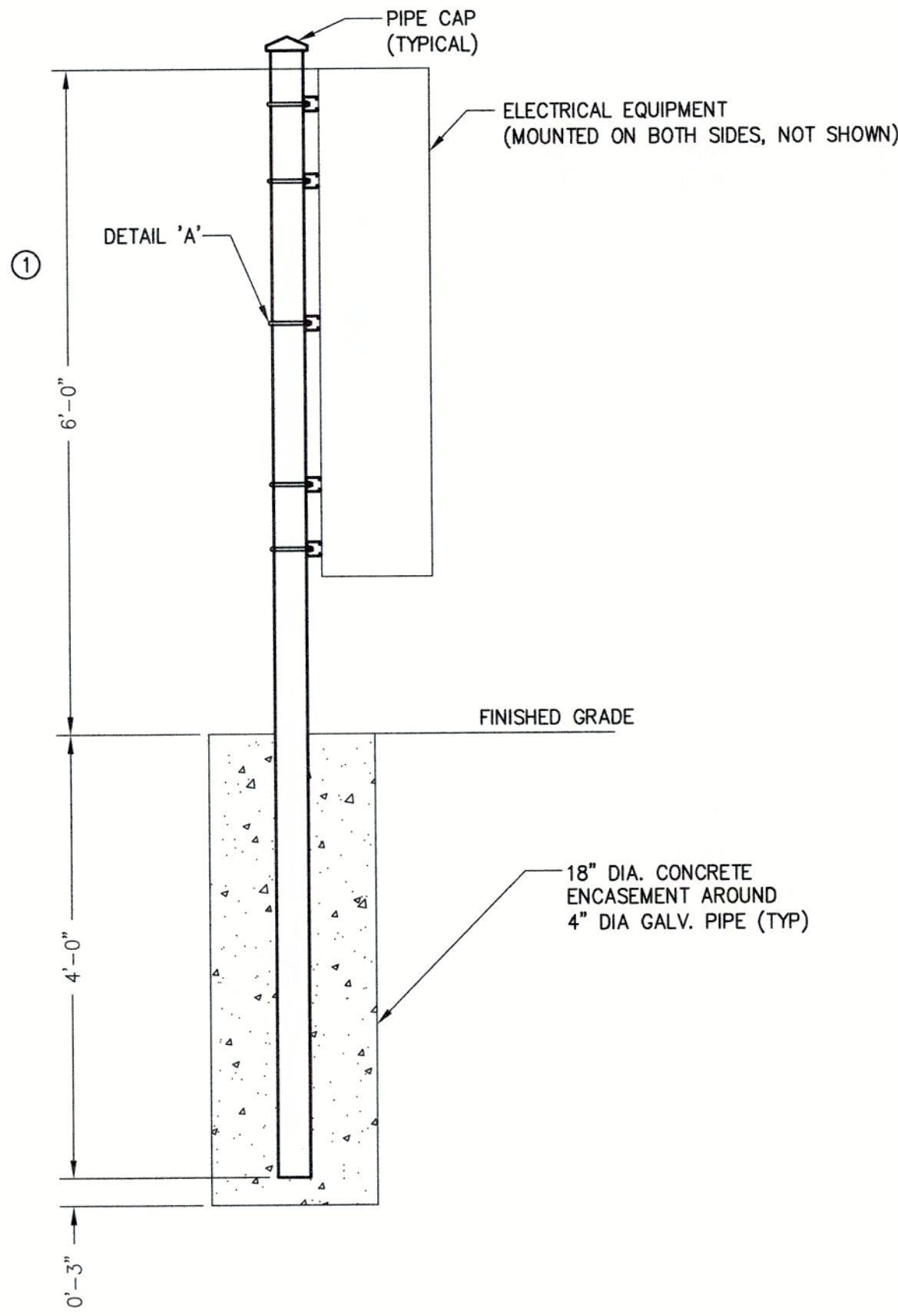
- **Corporate Office**
324 Evans Street
Greenville, NC 27858
Tel 252 758 3746
Fax 252 630 3954
- **Branch Office**
4325 Lake Boone Trail, Suite 311
Raleigh, NC 27607
Tel 919 784 9330
Fax 919 784 9331
- **NC Engineering License No. C-2206**
NC Architectural License No. 50013
NC Landscape Architectural License
No. C-427



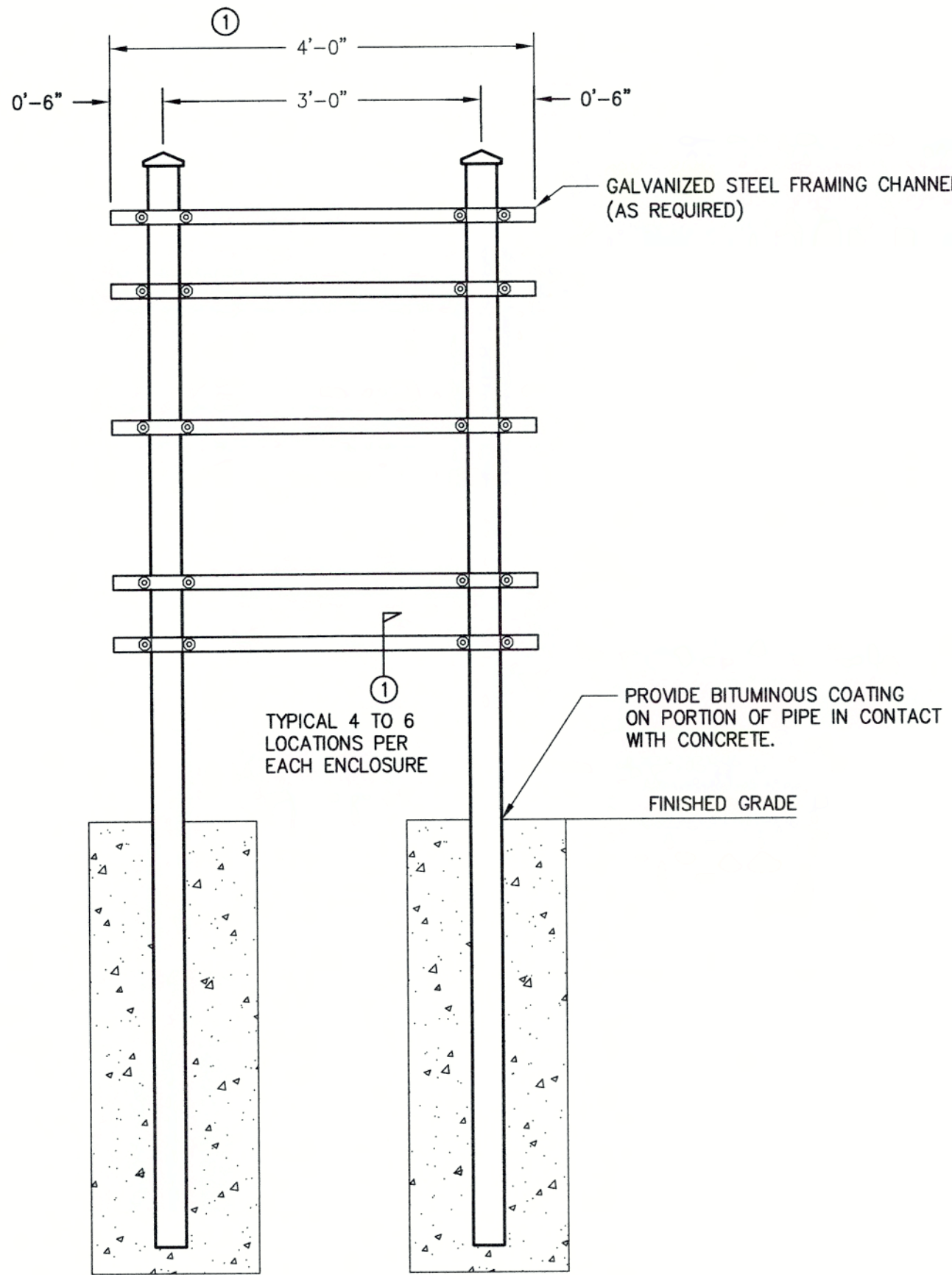
TEG PROJECT NO.	20230059
DATE	08.31.23
PROJECT TITLE	 Greenville NORTH CAROLINA
	WILLOW PARK PART I IMPROVEMENTS
DRAWING TITLE	ELECTRICAL DETAILS
DRAWING NO.	

E1.3

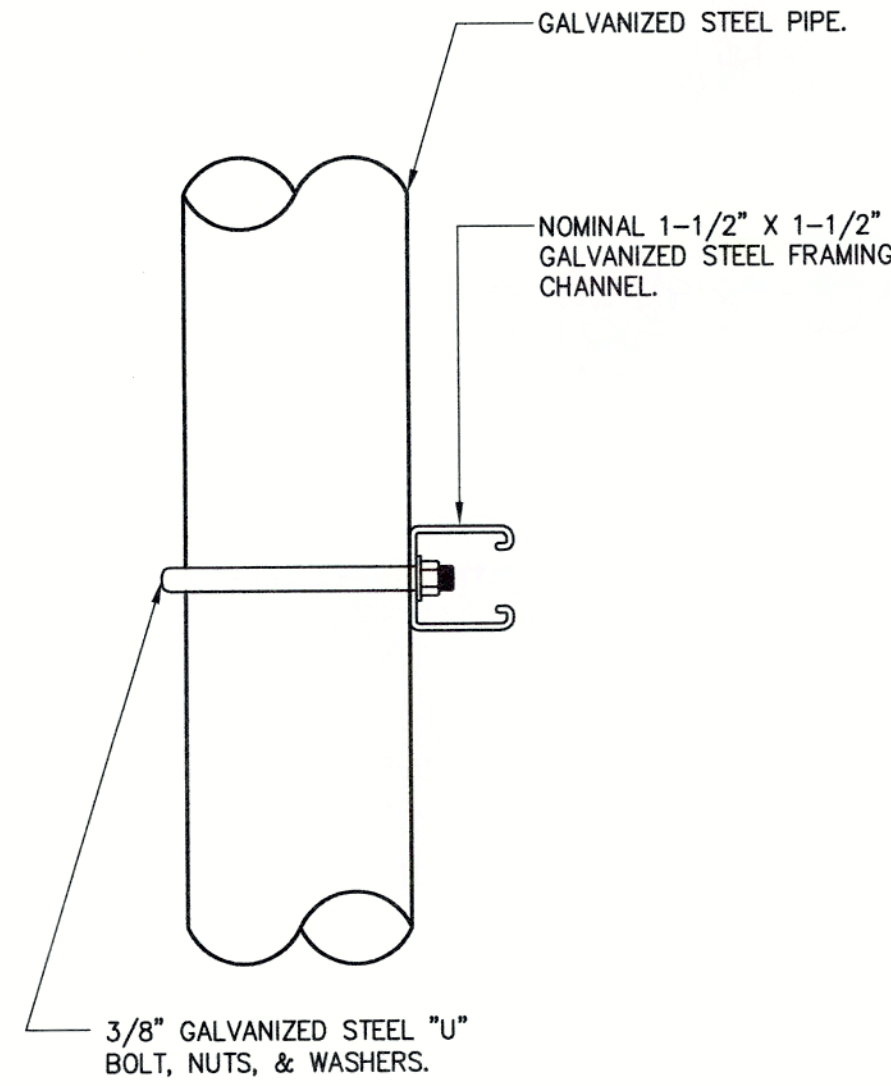
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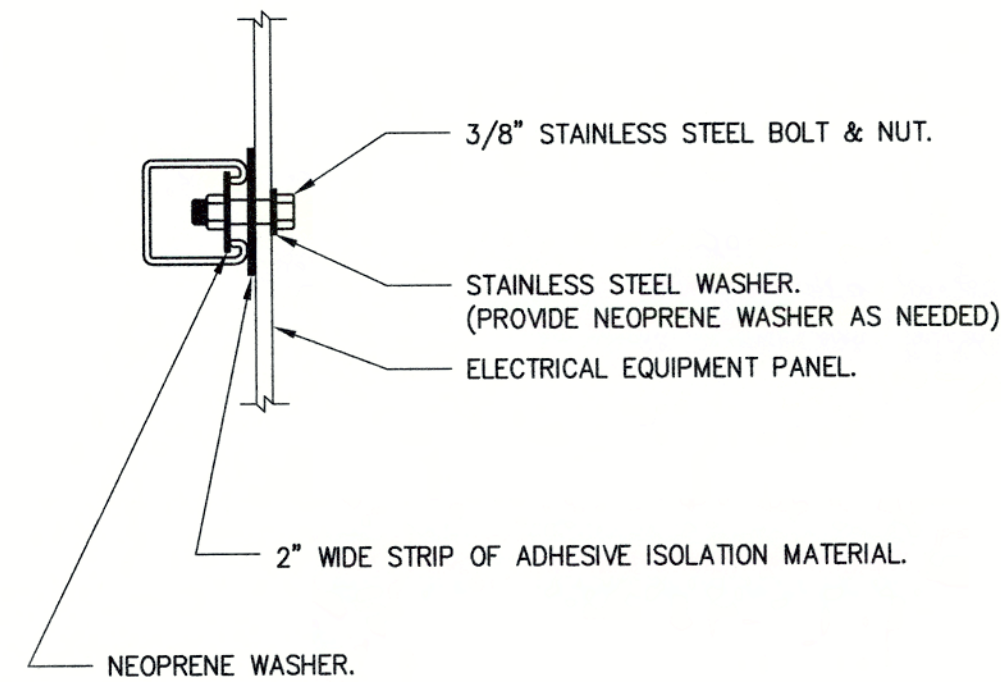
SIDE VIEW



FRONT VIEW



DETAIL - 'A'
(TYPICAL)



SECTION - 1

DETAIL STRUCTURAL NOTES:

1. CONCRETE SHALL HAVE 3000 PSI MINIMUM 28-DAY COMPRESSION STRENGTH.
2. AFTER THE FOUNDATION IS FORMED AND POURED, THE SOIL AROUND THE BASE SHALL BE BACKFILLED AND COMPACTED TO ACHIEVE 98% COMPACTION (STANDARD PROCTOR METHOD).
3. SEE PLAN DWGS. FOR LOCATIONS OF EQUIPMENT RACKS.

NOTES

- ① DIMENSION FOR OVERALL EQUIPMENT MOUNTING RACK WIDTH AND HEIGHT IS SHOWN FOR REFERENCE PURPOSES ONLY. ACTUAL WIDTH AND HEIGHT SHALL BE SIZED PER EQUIPMENT AND SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. IN NO CASE SHALL THE EQUIPMENT MOUNTING RACK WIDTH BE LESS THAN 4'-0" IN WIDTH.

REV	DATE	DESCRIPTION	BY	CHK
A	8-31-23	95% CONSTRUCTION DOCUMENTS	DLM	DLM
B	10-05-23	REVISED 95% CDs	DLM	DLM
O	03-01-24	ISSUE FOR CONSTRUCTION	DLM	DLM

TEG PROJECT NO. 20230059

DATE: 08.31.23

PROJECT TITLE
Greenville
NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
**ELECTRICAL
EQUIPMENT RACK
& DETAILS**

DRAWING NO.
E1.4

Name of Project: WILDWOOD PARK PART II IMPROVEMENTS

Address: 3450 BLUE HERON DR. GREENVILLE, NC Zip Code: 27834

Proposed Use: RESTROOMS

Owner or Authorized Agent: BW Architecture Phone No. 252-355-1300 e-mail: brad@bwarchitecture.info

Owned by: ☒ City/County ☐ Private ☐ State

Code Enforcement Jurisdiction: ☒ City ☐ County ☐ State

LEAD DESIGN PROFESSIONAL:		Bradley C. Williams, AIA			
Designer	Firm	Name	License #	Telephone #	E-mail
Civil	Bradley Architecture	Bradley Williams	NC 10568	252-355-1300	brad@bwilliamschute.com
Oil	The East Group, P.A.	Michelle Clements	NC 029422	(252) 738-3746	michelle.clements@wilson@engrsource
Electrical	Engineering Source	D. Wilson Pou	NC 021993	(252) 439-0338	wilson@engrsource
Fire Alarm	N/A				
Plumbing	Engineering Source	D. Wilson Pou	NC 021993	(252) 439-0338	wilson@engrsource
Mechanical	Engineering Source	D. Wilson Pou	NC 021993	(252) 439-0338	wilson@engrsource
Sprinkler-Standpipe	N/A				
Structural	Engineering	Mark Roy	NC 17348	(252)-321-6027	mark.roy@praengine
Retaining Walls>5' High/N/A	N/A				
Other					

2012 EDITION OF NC CODE FOR:		☒ New Construction	☐ Addition	☐ Upfit
EXISTING:	☐ Reconstruction	☐ Alteration	☐ Repair	☐ Renovation (Existing Bldg)
CONSTRUCTED	(date) _____	ORIGINAL USE(S)	(Ch. 3)	N/A
RENOVATED	(date) _____	CURRENT USE(S)	(Ch. 3)	N/A
		PROPOSED USE(S)	(Ch. 3)	RESTROOMS

BUILDING DATA			
Construction Type:	☐ I-A	☐ II-A	☐ III-A
	☐ I-B	☐ II-B	☐ IV (Sanctuary)
			☒ V-A
Sprinklers:	☒ No	☐ Partial	☐ III-B
	☐ Yes	☐ Class	☒ V-B
Standpipes:	☒ No	☐ I	☐ II
	☐ Yes	☐ III	☐ Wet
Fire District:	☒ No	☐ Yes (Primary)	☐ Dry
		Flood Hazard Area:	☒ No
			☐ Yes
Gross Building Area:			
Floor	Existing (SQ FT)	New (SQ FT)	Sub-Total
First Floor		2,182 s.f.	2,182 s.f.
TOTAL		2,182 s.f.	2,182 s.f.

Primary Occupancy:

Assembly	☐ A-1	☐ A-2	☐ A-3	☐ A-4	☐ A-5
	☒ Business				
	☐ Educational				
Factory	☐ F-1 Moderate	☐ F-2 Low			
Hazardous	☐ H-1 Detonate	☐ H-2 Deflagrate	☐ H-3 Combust	☐ H-4 Health	☐ H-5 HPI
Institutional	☐ I-1	☐ I-2	☐ I-3	☐ I-4	
	☐ I-3 Condition		☐ 1	☐ 2	☐ 3
	☐ Mercantile		☐ 4	☐ 5	
Residential	☐ R-1	☐ R-2	☐ R-3	☐ R-4	
Storage	☐ S-1 Moderate	☐ S-2 Low		☐ High-Piled	
	☐ Utility and Miscellaneous				

Accessory Occupancy:

Assembly	☐ A-1	☐ A-2	☐ A-3	☐ A-4	☐ A-5
	☐ Business				
	☐ Educational				
Factory	☐ F-1 Moderate	☐ F-2 Low			
Hazardous	☐ H-1 Detonate	☐ H-2 Deflagrate	☐ H-3 Combust	☐ H-4 Health	☐ H-5 HPI
Institutional	☐ I-1	☐ I-2	☐ I-3	☐ I-4	
	☐ I-3 Condition		☐ 1	☐ 2	☐ 3
	☐ Mercantile		☐ 4	☐ 5	
Residential	☐ R-1	☐ R-2	☐ R-3	☐ R-4	
Storage	☒ S-1 Moderate	☐ S-2 Low	☐ High-Piled		
	☐ Utility and Miscellaneous				

Incidental Uses (Table 508.2.5): N/A

- ☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input
- ☐ Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
- ☐ Refrigerant machine room
- ☐ Hydrogen cutoff rooms, not classified as Group H
- ☐ Incinerator rooms
- ☐ Paint shops, not classified as Group H, located in occupancies other than Group F
- ☐ Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
- ☐ Laundry rooms over 100 square feet
- ☐ Group I-3 cells equipped with padded surfaces
- ☐ Group I-2 waste and linen collection rooms
- ☐ Waste and linen collection rooms over 100 square feet
- ☐ Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies.
- ☐ Rooms containing fire pumps
- ☐ Group I-2 storage rooms over 100 square feet
- ☐ Group I-2 commercial kitchens
- ☐ Group I-2 laundries equal to or less than 100 square feet
- ☐ Group I-2 rooms or spaces that contain fuel-fired heating equipment

Special Provision ☐ 509.2 ☐ 509.3 ☐ 509.4 ☐ 509.5 ☐ 509.6 ☐ 509.7 ☐ 509.8 ☐ 509.9

Mixed Occupancy: ☐ No ☒ Yes Separation: Hr: Exception:

☐ Incidental Use Separation (508.2.5)

This Separation is not exempt as a Non-Separated Use (see exceptions)

☒ Non-Separated Use (508.3)
The required type of construction of the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations

For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

<u>Actual Area of Occupancy A</u>	+	<u>Actual Area of Occupancy B</u>		$\leq$	1
<u>Allowable Area of Occupancy A</u>		<u>Allowable Area of Occupancy B</u>			
<u>0</u>	+	<u>0</u>	=	<u>0</u>	$\leq$ 1.00

[illegible]

- 1 Frontage area increases from Section 506.2 are computed thus: N/A
 - a. Perimeter which fronts a public way or open space having 20 feet minimum width = n/a (F)
 - b. Total Building Perimeter = $(P) n/a$
 - c. Ratio $(F/P) = (F/P) n/a$
 - d. $W =$ Minimum width of public way = $(W) 30'$
 - e. Percent of frontage increase $I_f = 100 [F/P - 0.25] \times W/30 = (\%) n/a$
- 2 The sprinkler increase per Section 506.3 is as follows:
 - a. Multi-story building $I_s = 200$ percent
 - b. Single-story building $I_s = 300$ percent
- 3 Unlimited area applicable under conditions of Sections 507.
- 4 Maximum Building Area = total number of stories in the building $\times E$ (506.4)
- 5 The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE	
Type of Construction	Type VB		Type VB	602.2	
Building Height in Feet	Feet 40'	Feet = H+20' =	N/A	14'-0"	Table 503
Building Height in Stories	Stories 1	Stories + 1 =	N/A	1	Table 503

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL NO. AND SHEET NO.	DESIGN NO. FOR RATED ASSEMBLY	DESIGN NO. FOR RATED PENETRATION	DESIGN NO. FOR RATED JOINTS
		REQ'D	PROVIDED (WITH REDUCTION)				
Structural frame, including columns, girders, trusses	NA						
Bearing walls	≥ 30						
Exterior	≥ 30						
North	≥ 30						
East	≥ 30						
West	≥ 30						
South	≥ 30						
Interior	N/A						
Nonbearing walls and partitions Exterior							
North	N/A						
East	N/A						
West	N/A						
South	N/A						
Interior	N/A						
Floor construction including support beams and joist	N/A						
Roof construction including support beams and joist	N/A						
Shafts - Exit	N/A						
Shafts - Other	N/A						
Corridor Separation	N/A						
Occupancy Separation	N/A						
Party/Fire Wall Separation	N/A						
Smoke Barrier Separation	N/A						
Tenant Separation	N/A						
Incidental Use Separation	N/A						

LIFE SAFETY SYSTEM REQUIREMENTS			
Emergency Lighting:	☐	No	☒ Yes
Exit Signs:	☐	No	☒ Yes
Fire Alarm:	☒	No	☐ Yes
Smoke Detection Systems:	☒	No	☐ Yes
Panic Hardware:	☒	No	☐ Yes
Life Safety Systems Generator:	☒	No	☐ Yes

Life Safety Plan Sheet # NA

☐ Fire and/or smoke rated wall locations (Chapter 7)

☐ Assumed and real property line locations

☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)

☐ Existing structures within 30' of the proposed building

☐ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)

☐ Occupant loads for each area

☐ Exit access travel distances (1016)

☐ Common path of travel distances (1014.3 & 1028.8)

☐ Dead end lengths (1018.4)

☐ Clear exit widths for each exit door

☐ Maximum calculated occupant load capacity each each exit door can accommodate based on egress width (1)

☐ Actual occupant load for each exit door

☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation

☐ Location of doors with panic hardware (1008.1.10)

☐ Location of doors with delayed egress locks and the amount of delay (1008.1.9.7)

☐ Location of doors with electromagnetic egress locks (1008.1.9.8)

☐ Location of doors equipped with hold-open devices

☐ Location of emergency escape windows (1029)

☐ The square footage of each fire area (902)

☐ The square footage of each smoke compartment (407.4)

☐ Note any code exceptions or table notes that may have been utilized regarding the items above.

[illegible]

ACCESSIBLE DWELLING UNITS (SECTION 1107)	NA
--	----

ACCESSIBLE PARKING	NA
--------------------	----

STRUCTURAL DESIGN SEE STRUCTURAL PLANS

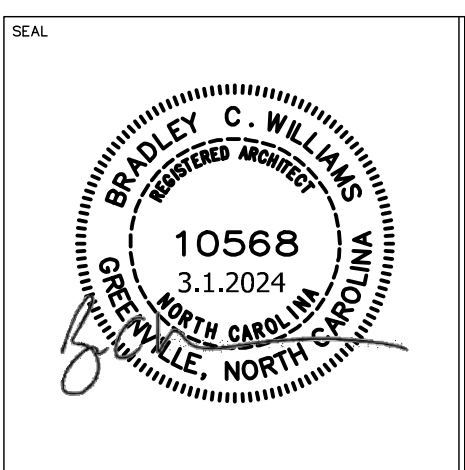
USE B	WATERCLOSETS		URINALS	LAVATORIES		SHOWERS/ TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE
NEW	1	1	0	1	1		1	1
REQUIRED	1	1	0	1	1		1	1

SPECIAL Approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc..., describe below)

ENERGY SUMMARY SEE MECHANICAL PLANS

MECHANICAL SUMMARY SEE MECHANICAL PLANS

ELECTRICAL SUMMARY SEE ELECTRICAL PLANS

[illegible]

TEG PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE



WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

BCS SHEET

DRAWING NO.

BCS1

ALTERNATE BIDS

3. SHALL BE THE AMOUNT ADDED TO THE BASE BID TO SUBSTITUTE COMPOSITE DECKING EQUAL TO TREX SELECT SERIES (1" GROOVED EDGE BOARD WITH CONCEALED FASTENER SYSTEM) IN PLACE OF PRESSURE TREATED DECKING WHERE SHOWN IN PLANS AND DETAILS (DECK, STAIR, ETC.).
4. SHALL BE THE AMOUNT ADDED TO THE BASE BID TO CONSTRUCT THE OBSERVATION DECK AREA WHERE SHOWN ON THE PLANS (INCLUDING RAILS, SHADE STRUCTURE, FOOTINGS, AND ALL COMPONENTS FOR A COMPLETE INSTALLATION).
- 4A. SHALL BE THE AMOUNT ADDED TO THE BASE BID TO CONSTRUCT THE OBSERVATION DECK AREA TO SUBSTITUTE COMPOSITE DECKING EQUAL TO TREX SELECT SERIES (1" GROOVED EDGE BOARD WITH CONCEALED FASTENER SYSTEM) IN PLACE OF PRESSURE TREATED DECKING WHERE SHOWN IN PLANS AND DETAILS (DECK, STAIR, ETC.).

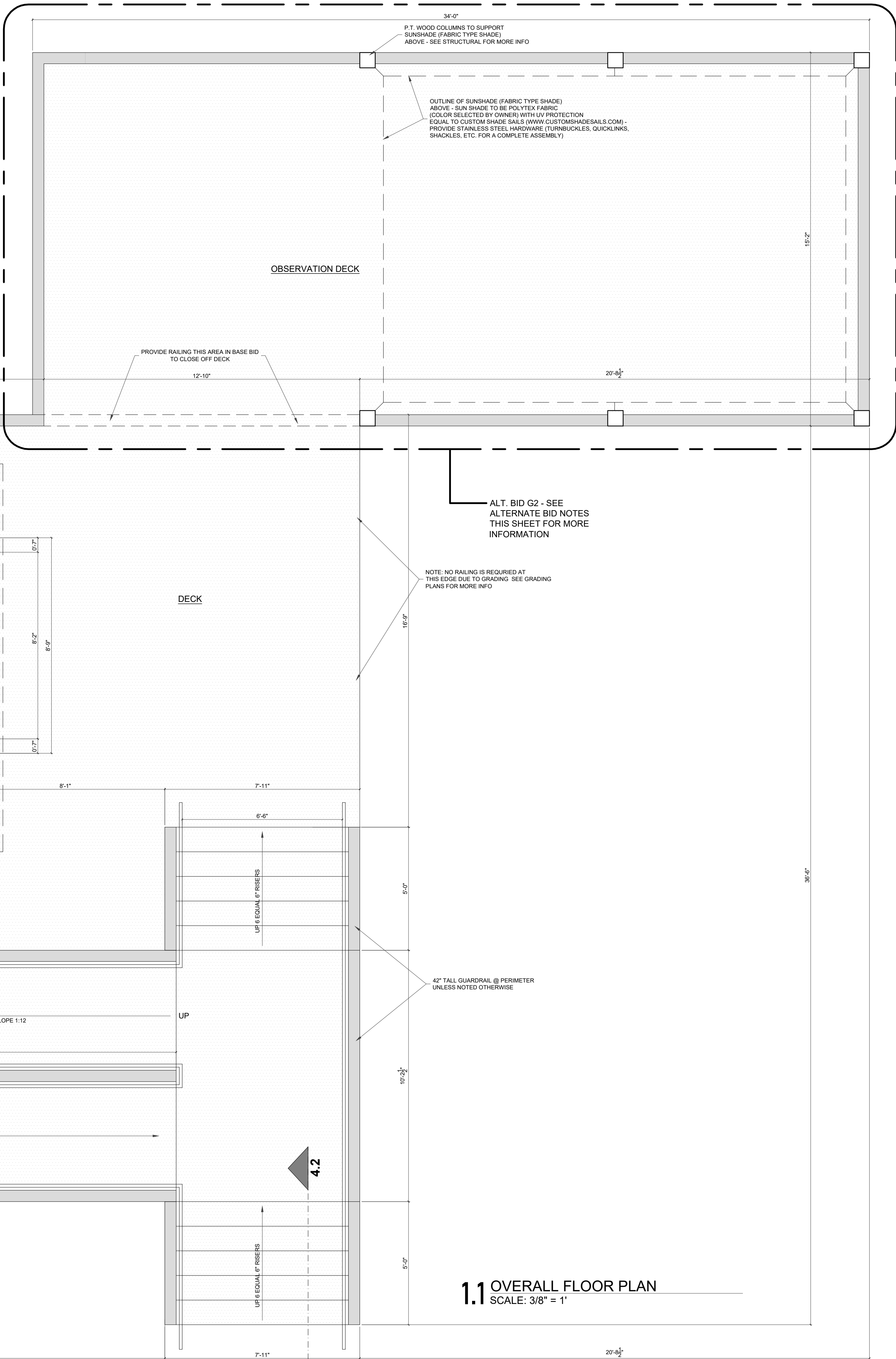
NOTE: SEE PROJECT MANUAL FOR ALL OTHER NON-BUILDING ALTERNATE BIDS

1. DO NOT SCALE THE DRAWINGS. NOTIFY ARCHITECT PRIOR TO COMMENCING WORK IF DIMENSIONAL DISCREPANCIES ARE FOUND.
2. THE CONTRACTOR AND SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS INDICATED OR SHOWN ON THE PLANS OR INDICATED BY EXISTING CONDITIONS AND SHALL REPORT ANY DISCREPANCY AND/OR EXISTING CONDITIONS THAT RESTRICT OR PROHIBIT PROVIDING CRITICAL DIMENSIONS IMMEDIATELY TO THE ARCHITECT AND/OR ENGINEER. VERIFICATION SHALL BE PERFORMED PRIOR TO COMMENCING ANY AND ALL WORK AND PRIOR TO ORDERING OR INSTALLING MATERIALS AND EQUIPMENT.
3. ALL CONSTRUCTION SHALL BE IN FULL COMPLIANCE WITH THE CURRENT EDITION ALL FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES.
4. GC SHALL COORDINATE WITH MC AND EC BEFORE INSTALLATION OF ALL EQUIPMENT, FIXTURES & FITTINGS TO AVOID CONFLICT AND NOTIFY ARCHITECT OR ENGINEER OF ANY CONFLICTS.
5. ALL NEW INTERIOR WALL CONSTRUCTION IS 2 x 4 WOOD STUD FRAMING WITH 5/8" GYPBOARD AT EACH SIDE, UNLESS NOTED OTHERWISE.
6. ALL INTERIOR WALLS TO BE INSULATED WITH R-13 SOUND ATTENUATION BATT.
7. ALL DRAWINGS ARE DEVELOPED TO CONVEY AND COMMUNICATE DESIGN INTENT, ANY SPECIAL SHAPES, TRIMS, MOLDINGS, FASTENERS, CONNECTIONS OR NECESSARY COMPONENTS NOT INDICATED SHALL BE PROVIDED AT THE CONTRACTORS EXPENSE IN ORDER TO PROVIDE A COMPLETE AND TOTAL ASSEMBLY.
8. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMAL RESULTS FOR ALL WORK, PRODUCTS, INSTALLATIONS, ETC.
9. GC SHALL INSTALL 2x6 BLOCKING IN THE WALL FOR ALL WALL HUNG ACCESSORIES, INCLUDING GRAB BARS, MIRRORS, CHANGING TABLES, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, HAND DRYERS ETC. AS REQUIRED.
10. FIRE BLOCKING SHALL BE INSTALLED AS REQUIRED TO CUT OFF CONCEALED HORIZONTAL AND VERTICAL DRAFT OPENINGS. LOCATIONS INCLUDE VERTICALLY AT THE CEILING AND FLOOR LEVEL, HORIZONTALLY AT INTERVALS NOT TO EXCEED 10' BETWEEN CONCEALED HORIZONTAL OPENINGS. FLOOR JOISTS CREATED BY FLOOR JOISTS, TRUSSES, AT SOFFITS, DROPPED CEILING AND SIMILAR CONDITIONS. BETWEEN STAIRWAY STRINGERS, WITHIN SPACES OF EXTERIOR WALL FINISHES, AND OTHER TRIM ELEMENTS AT 20' INTERVALS OF 20'-0" SO THAT NO SPACE WILL EXCEED 100 SQ. FT.
11. WHETHER NOTED OR NOT IN DRAWINGS, ALL WOOD MATERIAL USED OUTSIDE OF BUILDING OR OUTSIDE OF BUILDING ENVELOPE SHALL BE PRESSURE TREATED MATERIAL.

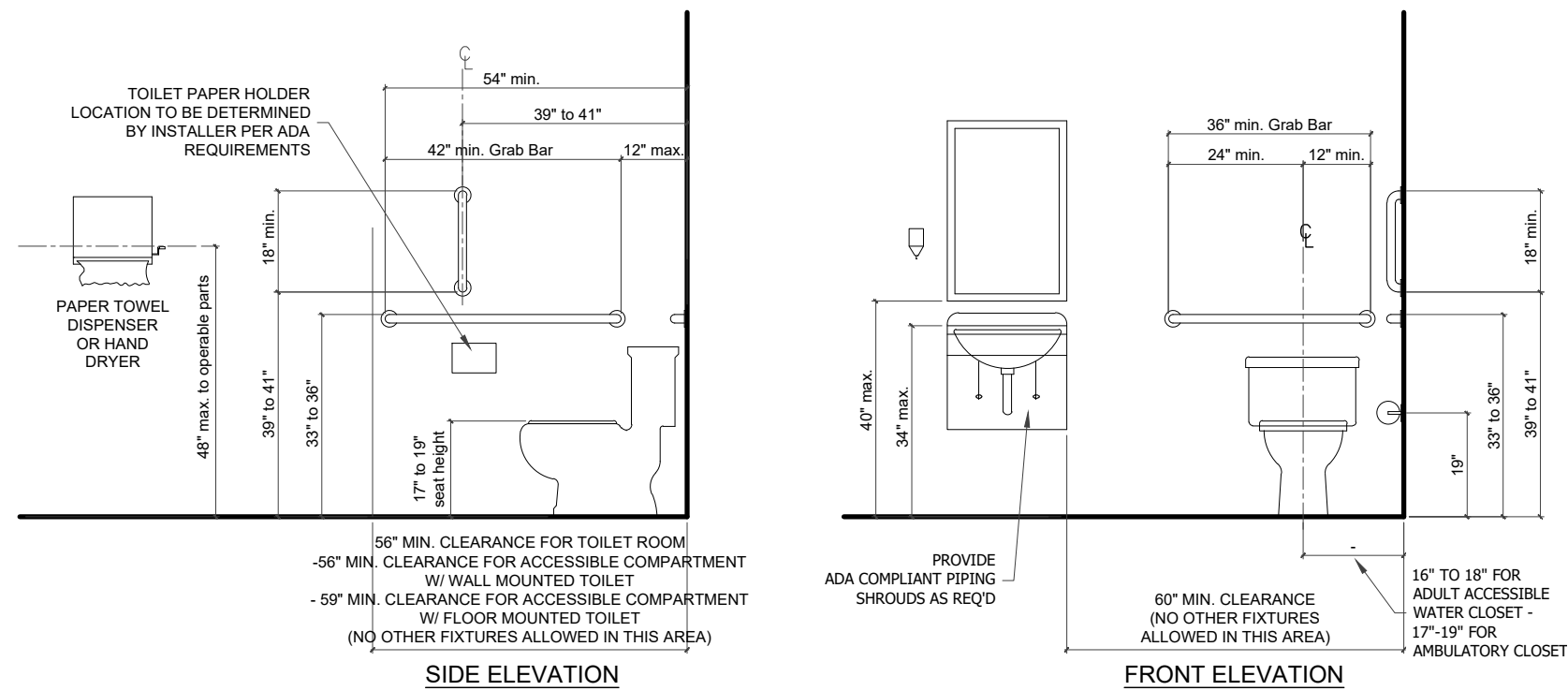
WALL LEGEND	
	NEW 2 x 4 WOOD FRAMED STUD WALLS
	NEW 2 x 6 WOOD FRAMED STUD WALLS

ROOM FINISH SCHEDULE						
ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CEILING HT.
101	FAMILY RESTROOM	LVT/LVP	RUBBER BASE	FRP / STAINED BEADBOARD	PAINTED M.R. GYP	VARIES
102	CUSTODIAL	LVT/LVP	RUBBER BASE	PAINTED M.R. GYP	PAINTED M.R. GYP	VARIES
103	FAMILY RESTROOM	LVT/LVP	RUBBER BASE	FRP / STAINED BEADBOARD	PAINTED M.R. GYP	VARIES

NOTES
 (1) OWNER TO VERIFY ALL FINISHES PRIOR TO ORDERING OF ANY MATERIALS
 (2) LVT TO BE FULLY GLUED (FULL SPREAD) MIN. 2.5 MM THICK, 20 MIL WEAR LAYER WITH 10 YEAR HEAVY COMMERCIAL WARRANTY

[illegible]

TEC PROJECT NO.	
ARCHITECT PROJECT NO.	
PROJECT TITLE	 Greenville NORTH CAROLINA
	WILDWOOD PARK PART IMPROVEMENTS
DRAWING TITLE	FLOOR PLAN & SCHEDULES
DRAWING NO.	

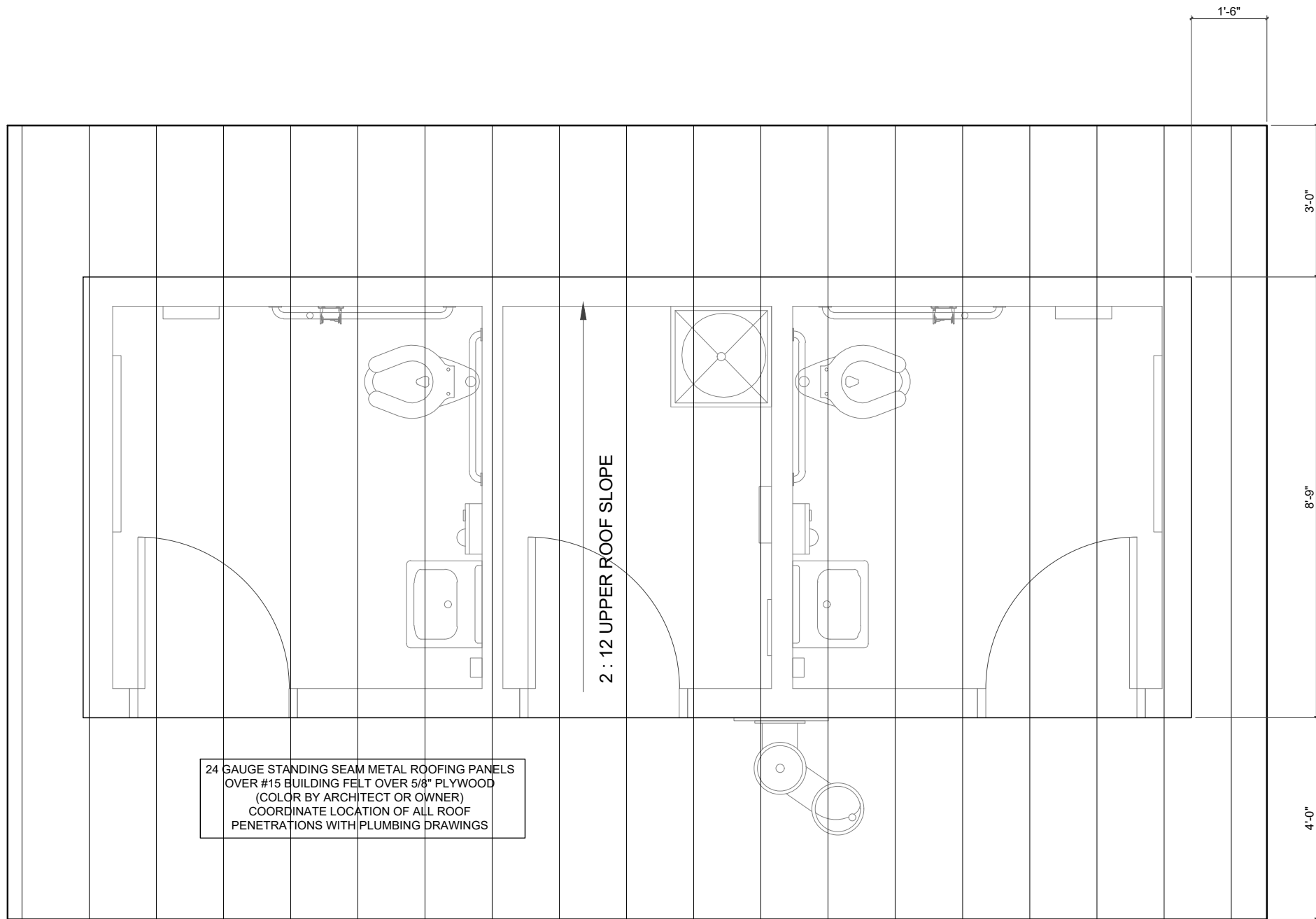


NOTE 1: ABOVE DRAWINGS AND DIMENSIONS ARE FOR ADULT FIXTURES AND RESTROOMS ONLY.

2.4 TYPICAL ACCESSIBLE RESTROOM DETAILS

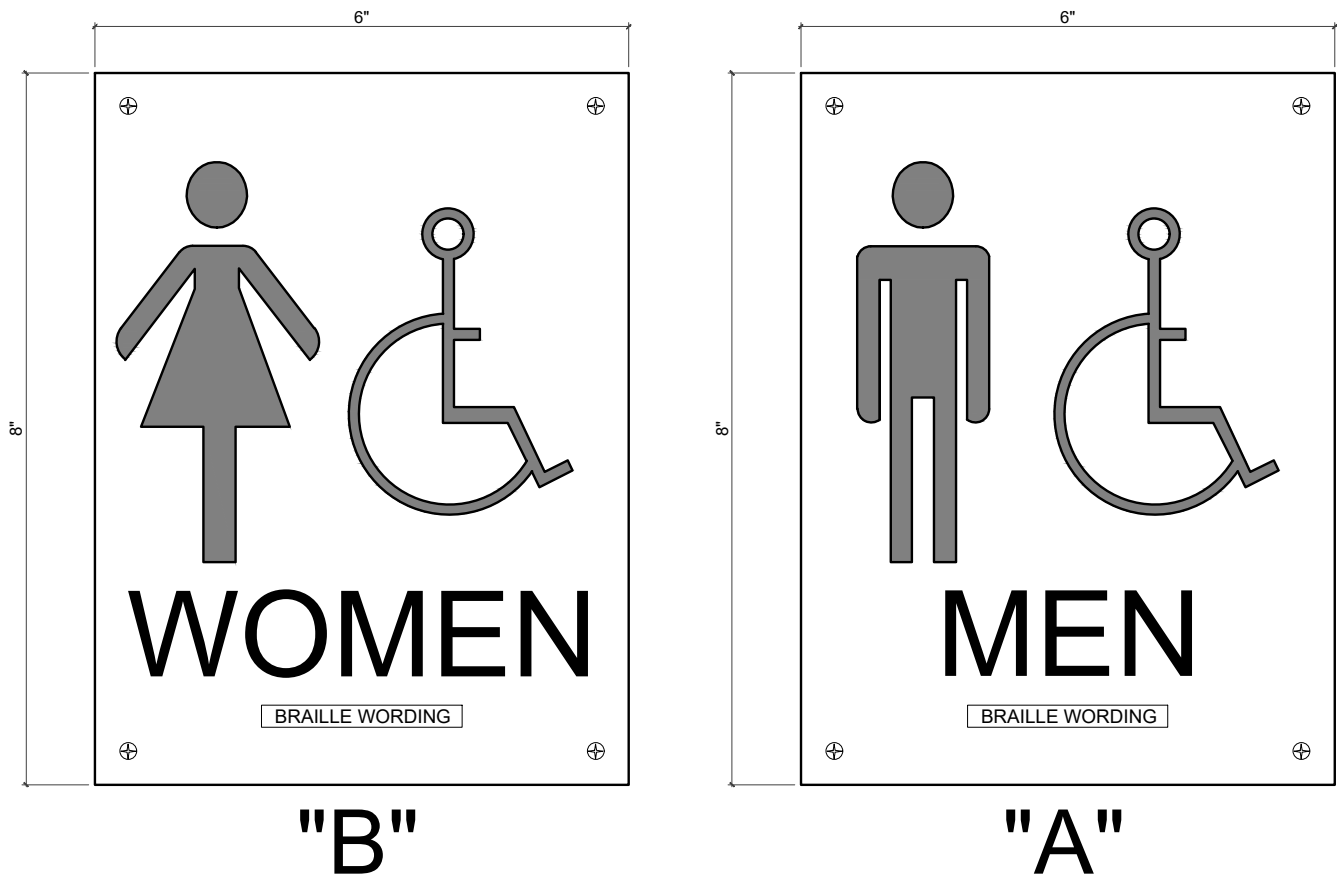
SCALE: NTS

- GENERAL ROOF PLAN NOTES**
1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL VERTICAL ROOF DRAIN LEADERS AND HORIZONTAL DRAINAGE PIPING SYSTEMS TO STORM SEWER CATCH BASINS. PIPE AROUND STRUCTURE AS REQUIRED
 2. PROVIDE CLEANOUTS AT ALL PIPING ELBOWS AT 80' INTERVALS FOR HORIZONTAL DRAINAGE PIPES 4" TO 6" NOMINAL DIAMETER. AT 100' INTERVALS FOR HORIZONTAL DRAINAGE PIPES 8" AND ABOVE
 3. REFER TO PLUMBING DRAWINGS AND MECHANICAL PLANS FOR ROOF PENETRATION LOCATIONS. GENERAL CONTRACTOR IS RESPONSIBLE FOR FLASHING ALL ROOF PENETRATIONS BY OTHER PRIME CONTRACTORS
 4. GENERAL CONTRACTOR TO PRIME AND PAINT (2) COATS ALL VENTS, PIPES, AND FLUES EXTENDING THROUGH ROOF. MATCHING COLOR. CHEMICALLY CLEAN METAL AND PRIME GALVANIZED METAL WITH SPECIAL PRIMER AS SPECIFIED



2.2 ROOF PLAN

SCALE: 3/8" = 1'



Bathroom signage shall be solid one piece phenolic plastic materials, sand etched raised graphics, attached to walls with (4) screws each, ADA compliant.
Provide Mohawk Signs Series 200A Sand Etched Format D signs or equivalent by Best Signs.

2.3 EXTERIOR SIGNAGE

SCALE: NTS

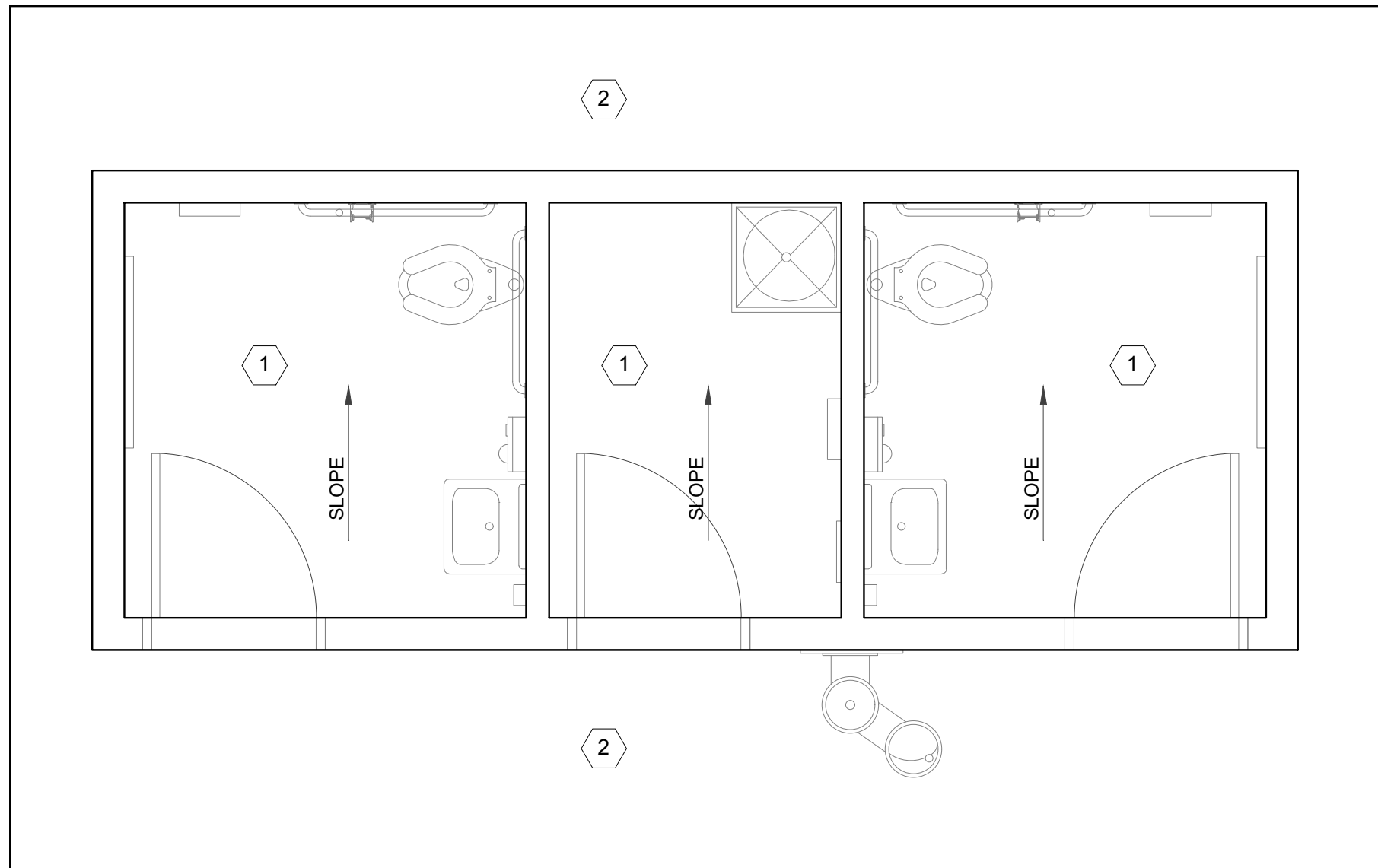
LEGEND - REFLECTED CEILING PLAN

- 1 INDICATES: CEILING TYPE - SEE CEILING FINISH SCHEDULE
- WALLS (FRAMING AND GYPBOARD) RUN TIGHT TO ROOF DECK

- NOTES:**
1. REFLECTED CEILING PLAN IS PROVIDED FOR THE PURPOSES OF ARCHITECTURAL LAYOUT AND MATERIAL IDENTIFICATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL EQUIPMENT AND FIXTURE LOCATIONS
 2. SHADED WALLS INDICATE WALLS RUN TIGHT TO ROOF DECK 6" METAL STUDS TYPICAL U.O.N.

RCP SCHEDULE

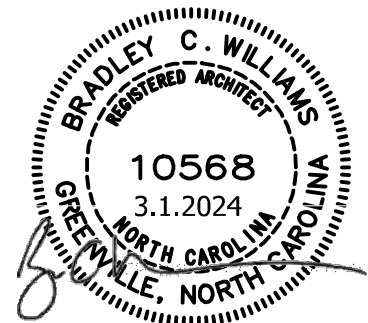
TYPE	DESCRIPTION
1	5/8" PAINTED MOISTURE RESISTANT GYPBOARD CEILING
2	STAINED CEDAR 1 X 8 TONGUE AND GROOVE WOOD CEILING



2.1 REFLECTED CEILING PLAN

SCALE: 3/8" = 1'

SEAL



CHK

BY

DESCRIPTION

DATE

REV

PROJECT NO.

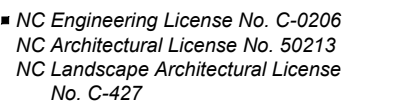
ARCHITECT PROJECT NO.

PROJECT TITLE

DRAWING TITLE

REFLECTED CEILING
PLAN & ROOF PLAN

DRAWING NO.



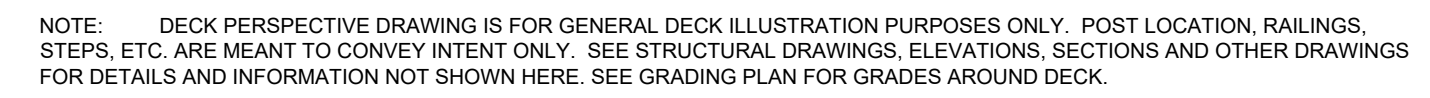
NOTE: SEE PROJECT MANUAL FOR ALL OTHER NON-BUILDING ALTERNATE BIDS

NOTE 1: ALL OUTSIDE CORNER TRIM TO BE PREFINISHED ALUMINUM WITH 1" EXPOSURE SIMILAR TO TAYMLN XTREME TRIM OR EASY TRIM

NOTE 2: ALL INSIDE CORNER TRIM TO BE PREFINISHED ALUMINUM WITH 5/8" EXPOSURE SIMILAR TO TAYMLN XTREME TRIM OR EASY TRIM

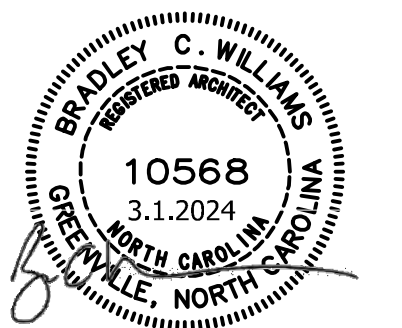
NOTE 3: ALL J-MOLD TRIM AT HEAD CONDITIONS TO BE PREFINISHED ALUMINUM WITH 3/8" EXPOSURE SIMILAR TO TAYMLN XTREME TRIM OR EASY TRIM

NOTE 4: ALL SIDING TO SIDING TRANSITION TRIM TO BE PREFINISHED ALUMINUM WITH 1" EXPOSURE SIMILAR TO TAYMLN XTREME TRIM OR EASY TRIM



SCALE: NTS



[illegible]

PROJECT NO. _____

TEST PROJECT NO. _____

PROJECT TITLE



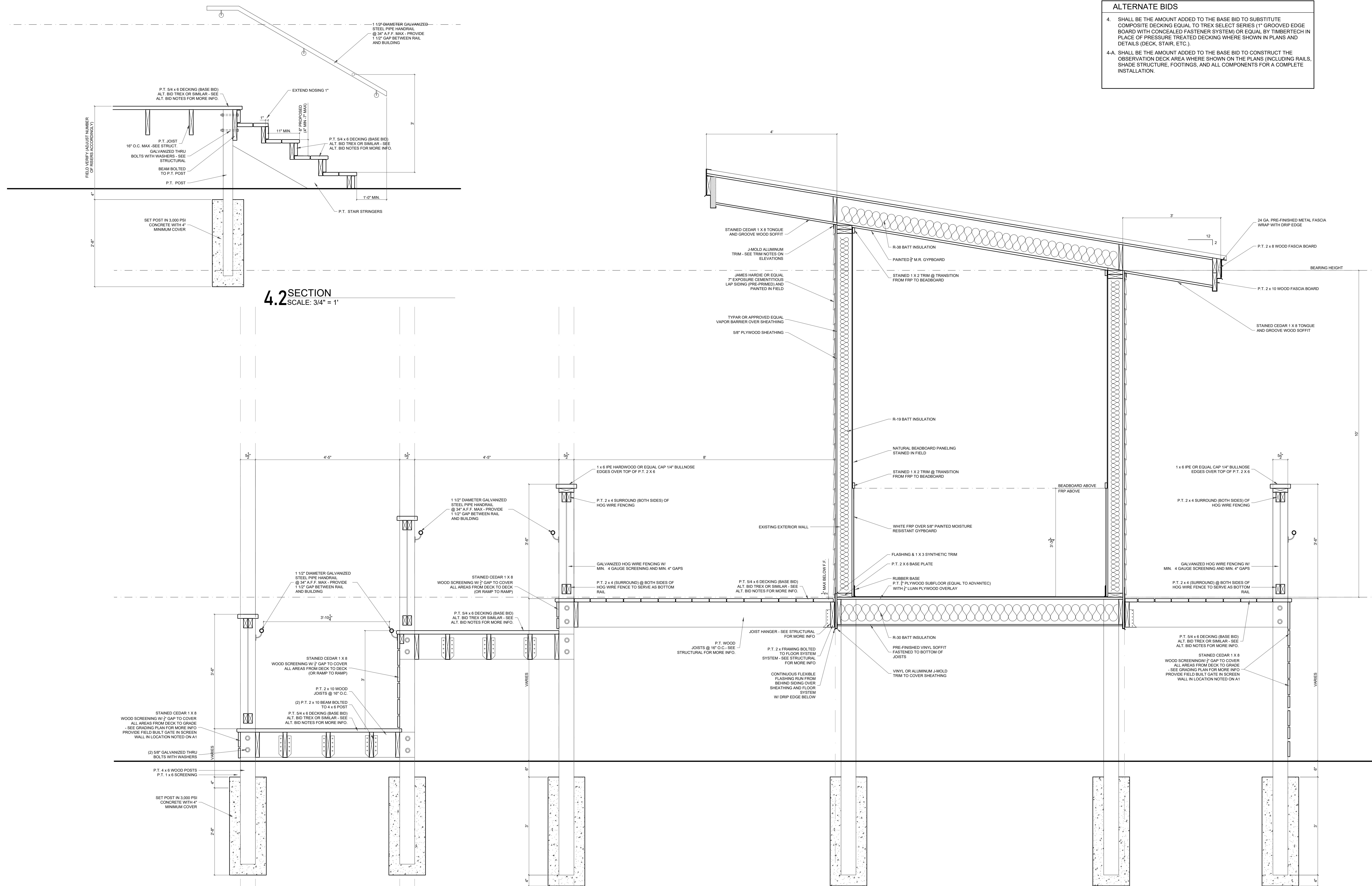
WILDWOOD PARK
PART F IMPROVEMENTS

WORKING TITLE

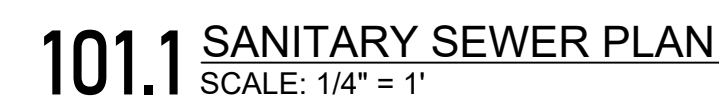
CTIONS

ING NO.

A4



4.1 SECTION
SCALE: 3/4" = 1'



THE EAST GROUP

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- Surveying ■ Technology

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[illegible]

PROJECT NO.	
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TEST PROJECT NO.

PROJECT TITLE	
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WILDWOOD PARK
PARTF IMPROVEMENTS

WASTE PLAN
& RISER, DETAILS

INQ NO.	
---------	--

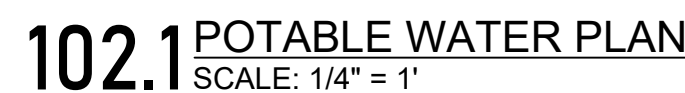
P101

ENGINEERING
S O U R C E of NC, P.A.



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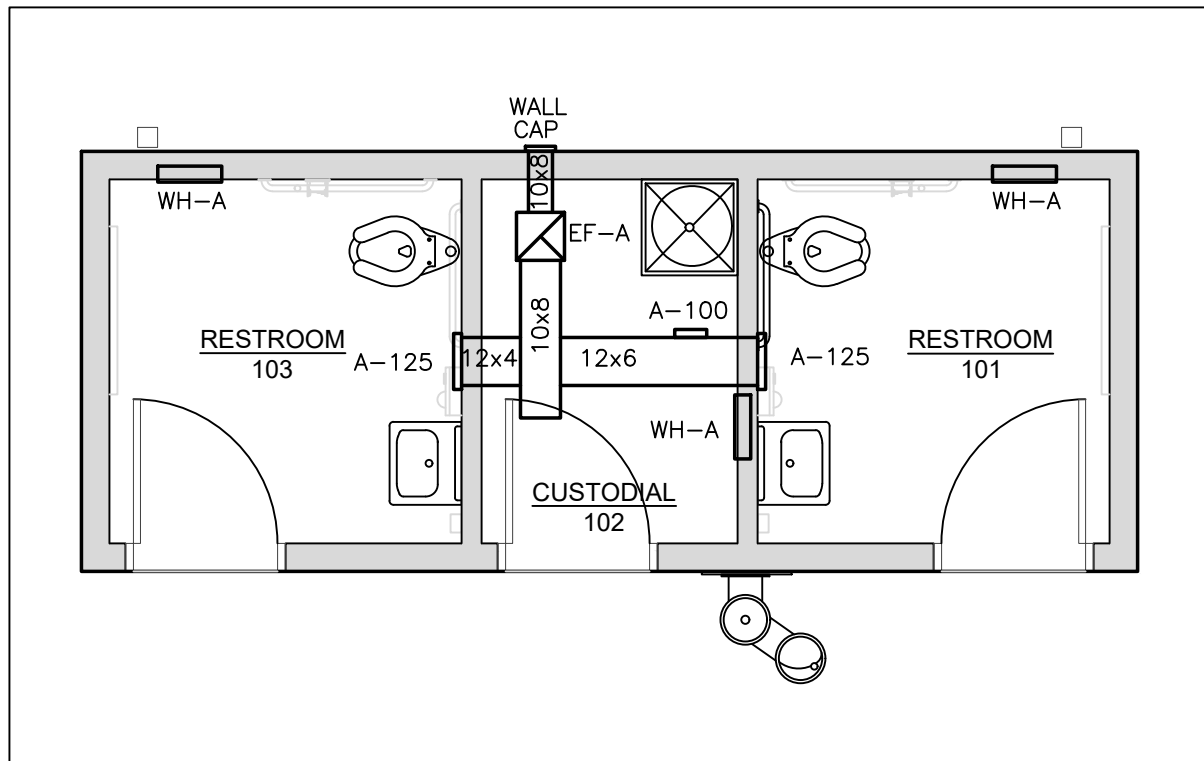
FIXTURE CALCULATIONS JUSTIFICATION OCCUPANCY = OUTDOOR PARK/RECREATION AREA		MINIMUM PLUMBING FIXTURES FROM TABLE 403.1	
<u>ESTIMATED LOAD FOR OCCUPANT CALC.:</u> TOTAL PEOPLE: 50 PEOPLE			TOTAL REQUIRED TOTAL PROVIDED
		MALES	1 WC 1 LAVATORY 1 WC 1 LAVATORY
DIVISION OF FACILITIES PER TABLE 403.4: MALE: 50% FEMALE: 50% 50 x 0.5 = 25 FEMALE 50 - 25 = 25 MALE		ES24002 ENGINEERING S O U R C E O F N C P A DRINKING FOUNTAIN 1 DF	
ES Project	102-A2 Regency Blvd. Greensville, NC 27834 E-Mail Address: generalmail@engrsource.com Web (252) 439-0338 • Fax (252) 439-0462 • Tlm (C)-1873		

*MODEL NUMBERS ARE PROVIDED TO ESTABLISH A LEVEL OF QUALITY. EQUAL QUALITY PRODUCTS ARE ACCEPTABLE.

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MECHANICAL GENERAL NOTES:

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE NC BUILDING CODE & CONTR. SHALL NOTIFY ENGINEER IN WRITING REGARDING ANY CODE DISCREPANCIES FOUND ON PLANS. CONTR. IS RESPONSIBLE FOR PERMITS, INSPECTIONS AND FEES.
2. SYSTEMS INDICATED ON PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL PROVIDE NECESSARY HANGERS, FASTENERS ETC. TO PROVIDE A COMPLETE AND WORKING SYSTEM.
3. CONTRACTOR SHALL SEAL ALL DUCTWORK WITH A PAINT ON MASTIC. ALL WALL PENETRATIONS SHALL BE SEALED AIR TIGHT.
4. CONTRACTOR SHALL FIELD MEASURE ACTUAL INSTALLED CONDITIONS AND COORDINATE DUCT SIZES PRIOR TO FABRICATION OR INSTALLATION OF EQUIP. & DUCTWORK.
5. CONTRACTOR SHALL COORDINATE ALL DUCTWORK, DIFFUSER AND GRILLE LOCATION WITH OTHER CEILING MOUNTED DEVICES SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN.
6. CONTRACTOR SHALL INSTALL BALANCING DAMPERS IN EACH BRANCH DUCT TO PROVIDE PROPER AIRFLOW TO EACH ZONE.
7. LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0" A.F.F. (CENTER OF BOX FOR GYP BRD, TOP OF BOX FOR MASONRY) IN LOCATION INDICATED ON PLANS.
8. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
9. CONTRACTOR SHALL COORDINATE ALL ROOF AND FLOOR PENETRATION LOCATIONS AND SIZES.
10. FABRICATE AND INSTALL ALL DUCT WORK PER SMACNA 1.5" W.C. PRESSURE. ALL ELBOWS SHALL HAVE 1.5R CENTERLINE. ALL DUCT UNDER SLAB SHALL BE FIBERGLASS.
11. ALL FLEXIBLE ROUND DUCT SHALL BE PRE-INSULATED DOUBLE WALLED WITH SPIRAL METAL RIB, AND SHALL HAVE MIN. RESISTANCE VALUE OF R-6. MAXIMUM LENGTH SHALL BE 10'-0" UNLESS SHOWN SPECIFICALLY OTHERWISE IN PLAN. SECURE ENDS WITH NYLON BANDS AND TAPE.
12. ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED WITH A MINIMUM OF 2-3/16" ¾ LB. OR 2" OF 1.0 LB. DENSITY FIBERGLASS WRAP. PIPING INSULATION (REFRIGERANT OR WATER) SHALL BE A MINIMUM OF 1-1/2" THICK OR PER LATEST NC ENERGY CODE, WHICHEVER IS GREATER.
13. ALL DUCTWORK AND PIPING SHALL BE CONCEALED ABOVE CEILINGS, TRUSSES AND SOFFITS EXCEPT IN MECHANICAL ROOMS, UTILITY PLATFORMS AND WHERE NOTED OTHERWISE.
14. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING & CONNECTIONS TO HIS EQUIPMENT. COOR'D. FEEDER AND FUSE SIZES FOR SPECIFIC EQUIPMENT PROVIDED WITH ELECTRICIAN. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL WORK AND EQUIPMENT REQUIRED TO PROVIDE FEEDERS FOR EQUIPMENT THAT EXCEEDS THE AMP RATINGS LISTED IN THE SCHEDULE.
15. MECHANICAL CONTRACTOR MAY USE ROUND DUCT OF EQUIV. AREA IN LIEU OF RECTANGULAR. COOR'D. ROUND DUCT SIZES W/ ENGR. USE INSULATED DOUBLE WALLED SPIRAL DUCT WITH PAINT GRIP FINISH WHERE DUCT IS TO BE EXPOSED.
16. MECHANICAL CONTRACTOR SHALL PROVIDE ENGR. WITH AN AIR BALANCE REPORT INDICATING INITIAL AND FINAL READINGS AT EACH DIFFUSER AND TOTAL CFM PER UNIT, INCLUDE IN DOCUMENTS PROVIDED TO OWNER AT JOB CLOSEOUT.
17. MECHANICAL CONTRACTOR SHALL LABEL ALL EQUIPMENT WITH ENGRAVED PLASTIC LAMINATE, SCREWED TO PIECE OF EQUIPMENT.
18. MECHANICAL CONTRACTOR SHALL NOT ALLOW DUCTWORK TO CONTACT LAY-IN LIGHT FIXTURES. ROUTE ACCORDINGLY.



101.1 MECHANICAL PLAN

SCALE: 1/4" = 1'

AIR DISTRIBUTION						
MARK	MAX. CFM	FRAME	NECK SIZE	MODEL	MANUF.	REMARKS
A	250	SIDEWALL	14X6	630D	PRICE	2,4,5,6
B	200	SIDEWALL	10X6	630D	PRICE	2,4,5,6

1. ALL T-BAR GRILLES SHALL HAVE 24"x24" FACE.
2. NC SHALL NOT EXCEED NC 25.
3. MAX. SP SUPPLY - 0.10" W.G.
4. MAX. SP RETURN - 0.05" W.G.
5. ALL RUN-OUTS AND FLEX TO BE EQUAL TO NECK SIZE FOR SUPPLY.
6. PROVIDE ALUMINUM GRILLE WITH OBD BALANCING DAMPER IN THROAT.
7. CONTRACTOR SHALL INSULATE BACK OF SUPPLY GRILLE PAN.

ELECTRIC WALL HEATER SCHEDULE							
MARK	WATTS	VOLTAGE/PHASE	MAKE/MODEL	AMP DRAW	CFM	BTU OUTPUT	NOTES
WH-A	750	120/1	MARKEL-E3321TD-RP	6.25	175	2,560	1,2

1. PROVIDE WITH UNIT MOUNTED THERMOSTAT & RECESSED WALL MOUNT.
2. PROVIDE WITH UNIT MOUNTED CIRCUIT BREAKER

FAN SCHEDULE									
SYMBOL	MANUF./MODEL	SERVICE	TYPE ASSEMBLY	CFM	SP (IN. W.G.)	DRIVE TYPE	WATTS	VOLT/PH	REMARKS
EF-A	GREENHECK/CSP-A390	EXHAUST	IN-LINE	350	.125	DIRECT	135	120/1	1,2,3,4

1. BACKDRAFT DAMPER.
2. UNIT MOUNTED DISCONNECT SWITCH.
3. ROUTE 8"Ø DUCT TO EXTERIOR WALL, PROVIDE WITH WALL CAP.
4. EQUALS BY CARNES, PENN, ILG AND BROAN ARE ACCEPTABLE.

MECHANICAL LEGEND

- G.C. GEN. CONTR.
E.C. ELEC. CONTR.
P.C. PLUMB. CONTR.
AFF ABOVE FINISH FLOOR
AFG ABOVE FINISH GRADE
18x16 WRAPPED RIGID DUCT
INSULATED FLEXIBLE DUCT
SUPPLY DIFFUSER
RETURN AIR GRILLE
CEILING EXHAUST GRILLE OR FAN
T AHU-1 THERMOSTAT & UNIT SERVED.
H AHU-1 HUMIDISTAT & UNIT SERVED.
A-400 DIFFUSER TYPE-CFM
MANUAL DAMPER
SD DUCT MOUNTED SMOKE DETECTOR
SD CEILING MOUNTED SMOKE DETECTOR
FIRE ALARM HORN/STROBE (SEE GENERAL NOTES)
CONN. TO EXIST.
G GAS PIPING
FD SPRING LOADED FIRE DAMPER
AHU-1 CO2 SENSOR (800 PPM) & UNIT SERVED.
T TWIST TIMER SWITCH
M 120V MOTORIZED DAMPER
AHU-1 CO & NO SENSOR & UNIT SERVED. CONSPESC CN50-CO20

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
METHOD OF COMPLIANCE:

PREScriptive ☒ ENERGY COST BUDGET ☐

CLIMATE ZONE: IBC - 3

THERMAL ZONE

WINTER DRY BULB: 18°F

SUMMER DRY BULB: 93°F

INTERIOR DESIGN CONDITIONS

WINTER DRY BULB: 70°F

SUMMER DRY BULB: 75°F

RELATIVE HUMIDITY: 50%

BUILDING HEATING LOAD: 7,758 BTU

BUILDING COOLING LOAD: N/A

MECHANICAL SPACE CONDITIONING SYSTEM

UNITARY

DESCRIPTION OF UNIT: ELECTRIC UNIT HEATER

HEATING EFFICIENCY: 3.0 COP

COOLING EFFICIENCY: N/A

HEAT OUTPUT OF UNIT: SEE SCHEDULE

COOLING OUTPUT OF UNIT: SEE SCHEDULE

BOILER

TOTAL BOILER OUTPUT: (If oversized, state reason)

CHILLER

TOTAL CHILLER OUTPUT: (If oversized, state reason)

LIST EQUIPMENT EFFICIENCIES

EQUIPMENT SCHEDULES WITH MOTORS (Not used for mechanical systems)

MOTOR HORSEPOWER:

NUMBER OF PHASES:

MINIMUM EFFICIENCY:

MOTOR TYPE:

OF POLES:

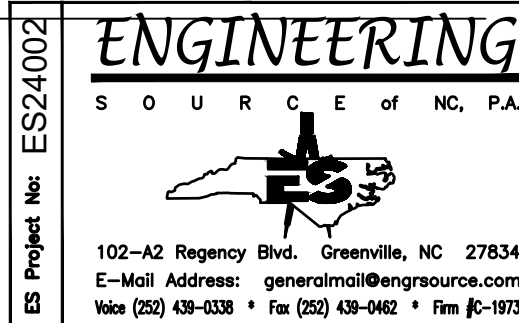
DESIGNER STATEMENT:

mechanical systems, service systems and equipment requirements of the 2012 North Carolina Energy Conservation Code.

SIGNED:

NAME: D. Wilson Pou, P.E.

TITLE: Owner/Engineer



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SEAL

CHK

BY

DESCRIPTION

DATE

REV

TED PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE

Greenville
NORTH CAROLINA

WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

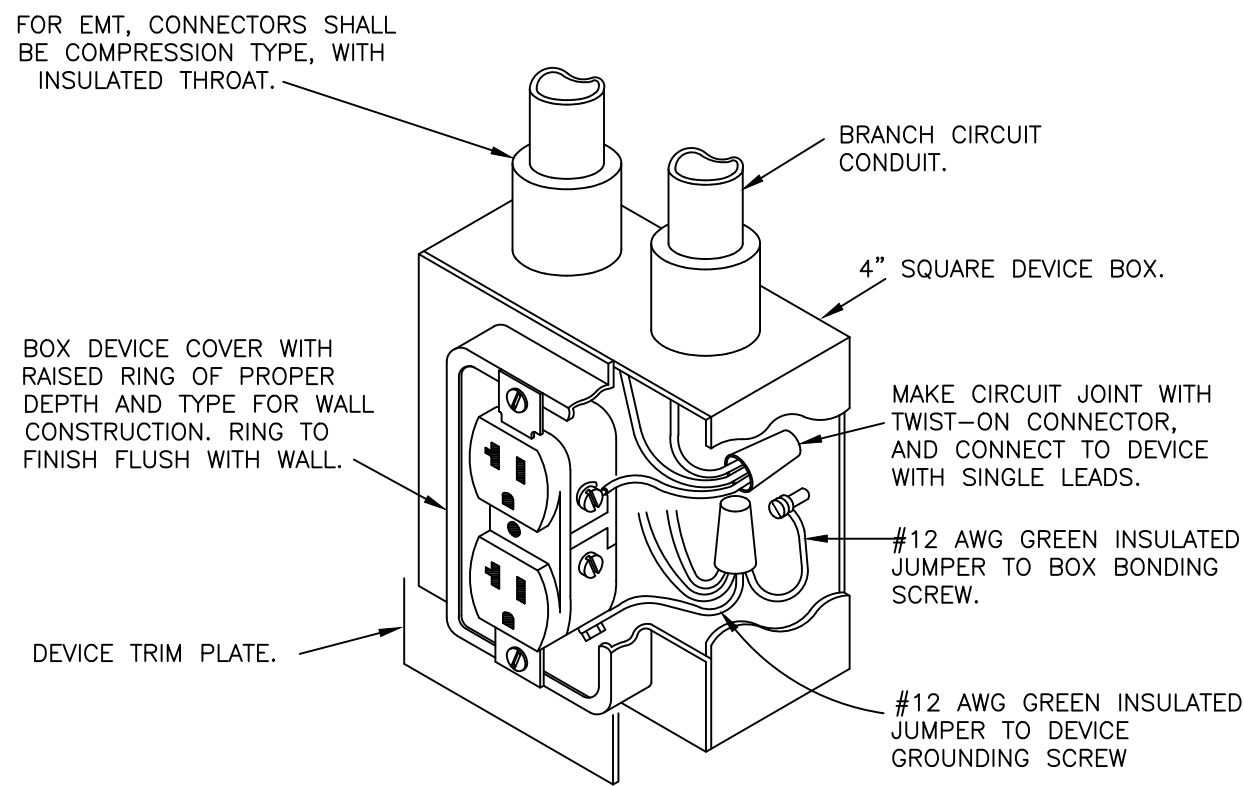
SHEET NAME

DRAWING NO.

M101

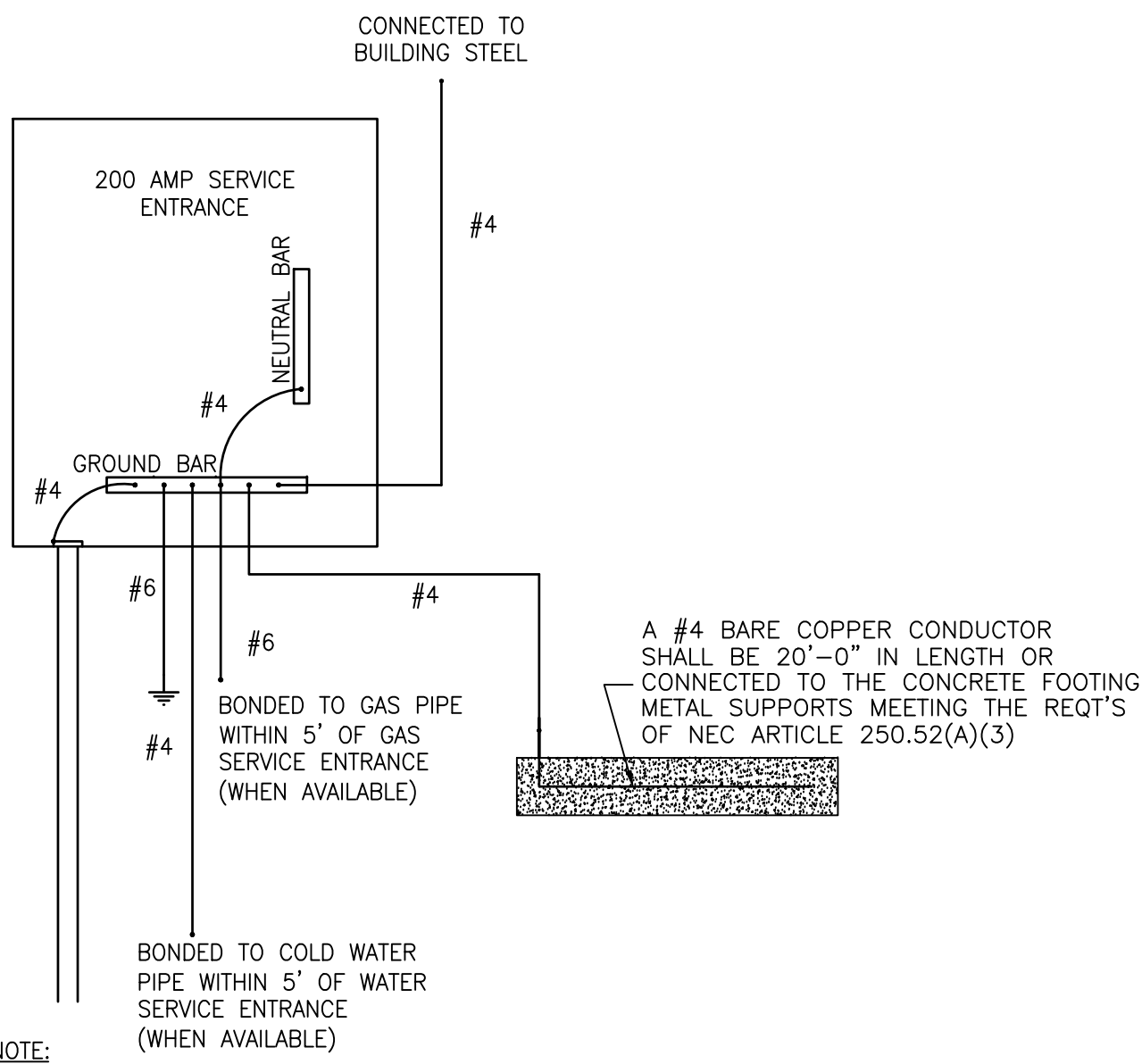
ELECTRICAL NOTES:

- DO NOT SCALE THESE DRAWINGS; REFER TO LARGEST SCALE ARCHITECTURAL PLANS.
- THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO SHOW MINOR DETAILS AND EXACT LOCATIONS. DESIGN ADJUSTMENTS SHALL BE ANTICIPATED BY THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NEC/NFPA 70. CONTRACTOR SHALL NOTIFY ENGINEER REGARDING ANY CODE DISCREPANCIES SHOWN ON PLAN. ANY PERMIT OR INSPECTION FEES ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL INSTALL, GROUND AND BOND SYSTEM PER THE NEC.
- CONTRACTOR SHALL NOT PUT MORE THAN SIX (6) DUPLEX RECEPTACLES ON ANY GIVEN 1P-20A CIRCUIT UNLESS SHOWN OTHERWISE.
- MINIMUM WIRE SIZE SHALL BE #12 AWG., MINIMUM CONDUIT SIZE SHALL BE 3/4".
- CONTRACTOR SHALL COORDINATE TELEPHONE AND DATA OUTLETS REQUIRED WITH OWNER PRIOR TO GYP. BOARD BEING INSTALLED.
- CONDUCTORS SHALL BE TYPE THHN, THWN, OR THW. BRANCH CIRCUIT CONDUCTOR SHALL NOT BE SMALLER THAN No. 12 AWG., EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. HOME RUNS ORIGINATING MORE THAN 80' AT 120V FROM PANEL LOCATION SHALL BE No. 10 AWG MINIMUM SIZE. WIRES No. 10 AWG AND SMALLER SHALL BE SOLID; WIRES No. 8 AWG AND LARGER SHALL BE STRANDED, PROVISIONS OF SECTION 210-5 COLOR CODE, NEC, SHALL BE STRICTLY COMPLIED WITH AND BE CONSISTENT THROUGHOUT ENTIRE SYSTEM.
- CABLE LOCATED IN PLENUMS SHALL BE PLENUM-RATED.
- LIGHTING SWITCHES, RECEPTACLES AND/OR DATA OUTLETS SHALL NOT BE MOUNTED BACK TO BACK IN ANY WALL.
- ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH 2008 NEC TABLE 250-122. HASHMARK FOR GROUNDING CONDUCTOR IS NOT INDICATED ON THESE DRAWINGS. RACEWAY SHALL NOT BE USED AS EQUIPMENT GROUND.
- IN ADDITION TO MECHANICAL FASTENING TO CEILING TRACK, SUPPORT LIGHT FIXTURES AT EACH CORNER INDEPENDENTLY OF SUSPENDED CEILING, WHEN PRESENT, WITH 12 GAUGE WIRE. CONNECT TO STRUCTURAL SYSTEM OF BUILDING.
- ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL EMPTY CONDUIT SHALL HAVE A PULL WIRE.
- EXTERIOR EXPOSED BRANCH CIRCUITS SHALL BE IN RIGID CONDUIT. INTERIOR EXPOSED CIRCUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT). EMT SHALL BE COLD-ROLLED STEEL TUBING w/A COATING ON THE OUTSIDE AND PROTECTED ON THE INSIDE BY A ZINC, ENAMEL, OR EQUIVALENT CORROSION RESISTANT COATING AND CONFORMING TO THE REQUIREMENTS OF ANSI C 80.3-1996 OR LATER EDITION. ALL UNDERGROUND CONDUIT SHALL BE UL LISTED SCHD 40 PVC CONFORMING TO ARTICLES 352 & 300 OF THE NEC. WHERE SCHD 40 PVC IS INSTALLED BELOW GRADE OR UNDER FLOOR SLABS, THE ELBOWS REQUIRED TO TURN THE RACEWAY UP INTO CABINETS, EQUIPMENT, ETC., SHALL BE OF RIGID STEEL AND SHALL CONTINUE AS RIGID STEEL TO THE CABINET, EQUIPMENT, ETC. FEEDER CIRCUITS SHALL BE IN CONDUIT. E.C. MAY USE M.C. CABLE FOR CONCEALED BRANCH CIRCUITS.
- ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER.
- ALL 1P-20A CIRCUITS SHALL BE 2-#12 & 1-#12G IN 3/4" U.N.O.
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL VOLUMES OF THE NCSBC, INSPECTORS HAVING JURISDICTION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- EACH PIECE OF ELECTRICAL GEAR, EQUIPMENT, ETC., SHALL BEAR A "UL" LABEL.
- ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT ELECTRICAL ITEMS.
- ALL EMERGENCY AND EXIT LIGHTS SHALL BE CONNECTED TO THE UNINTERRUPTED SIDE OF THE LOCAL LIGHTING CIRCUIT.
- INSTALL ENGRAVED PHENOLIC LABELS ON ALL ELECTRICAL GEAR, DISCONNECTS, ETC. FASTEN WITH SCREW FASTENERS.
- E.C. SHALL INSTALL HEAVY DUTY NEMA-1 DISCONNECTS AT ALL INTERIOR LOCATIONS INDICATED AND HEAVY DUTY NEMA-3R DISCONNECTS AT ALL EXTERIOR LOCATIONS INDICATED ON THESE DRAWINGS.
- VERIFY WITH OWNER LOCATION/TYPE OF ALL FIXTURES, PANEL BOXES, OUTLET PLACEMENT, ETC. BY HOLDING AN ELECTRICAL WALK THROUGH ON THE BUILDING SITE ONCE FRAMING IS COMPLETED.
- ELECTRICAL BOXES INSTALLED IN U.L. RATED WALLS SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY OTHER ELECTRICAL BOX IN THAT WALL.
- E.C. SHALL INSTALL ALL DEVICES AT MOUNTING HEIGHTS TO MEET ANSI 117 REQUIREMENTS FOR ACCESSIBILITY.



TYPICAL DUPLEX RECEPTACLE INSTALLATION

SCALE: NONE

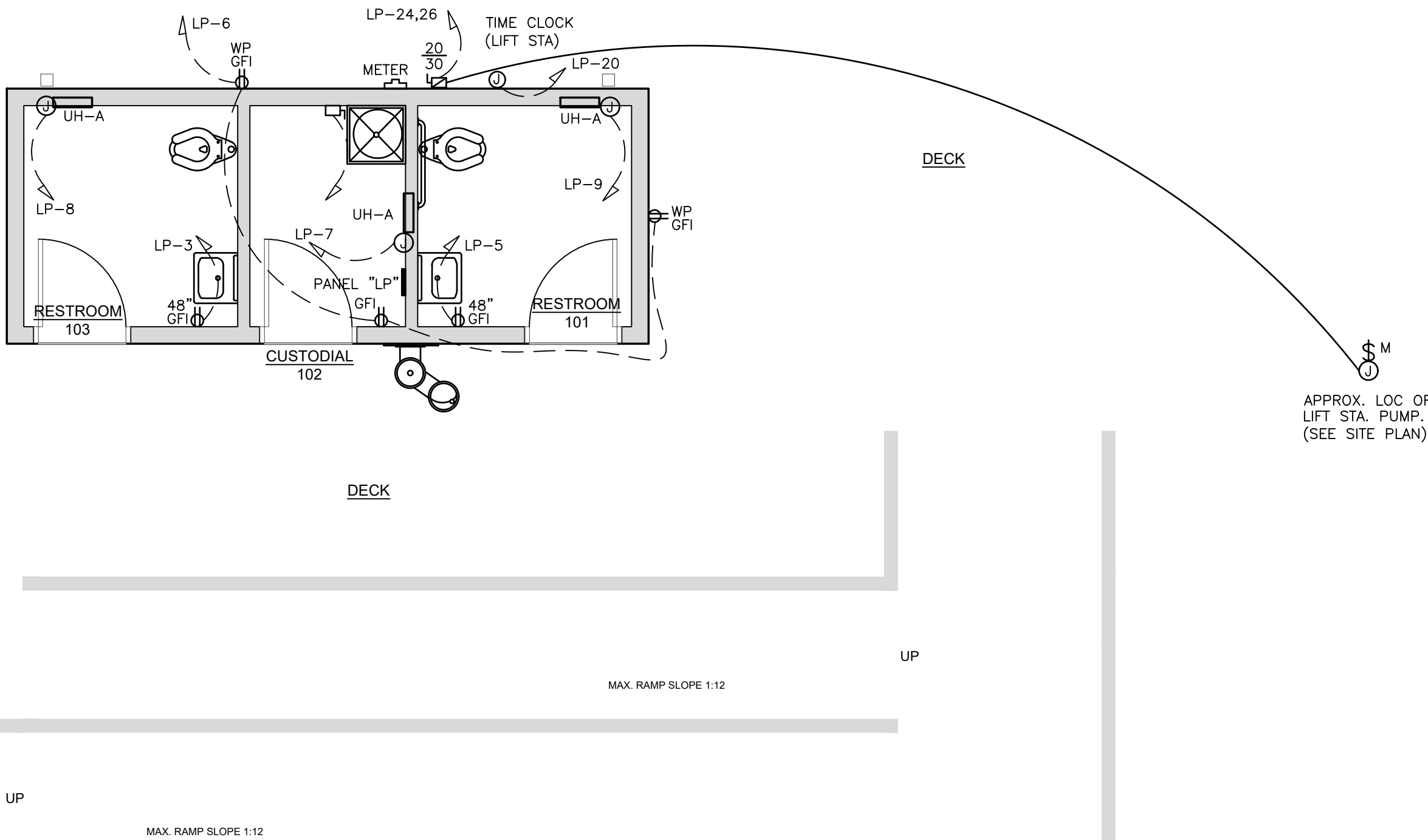


NOTE:

- THIS DRAWING ONLY SHOWS GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS. ALL CONDUITS SHALL ALSO HAVE EQUIPMENT GROUNDING CONDUCTORS SIZED PER NEC AND DRAWINGS.
- BONDING OF GAS PIPE IS TO EQUALIZE POTENTIAL OF GAS PIPE ONLY, AS REQ'D BY N.E.C. & VOLUME VI OF NCBC.

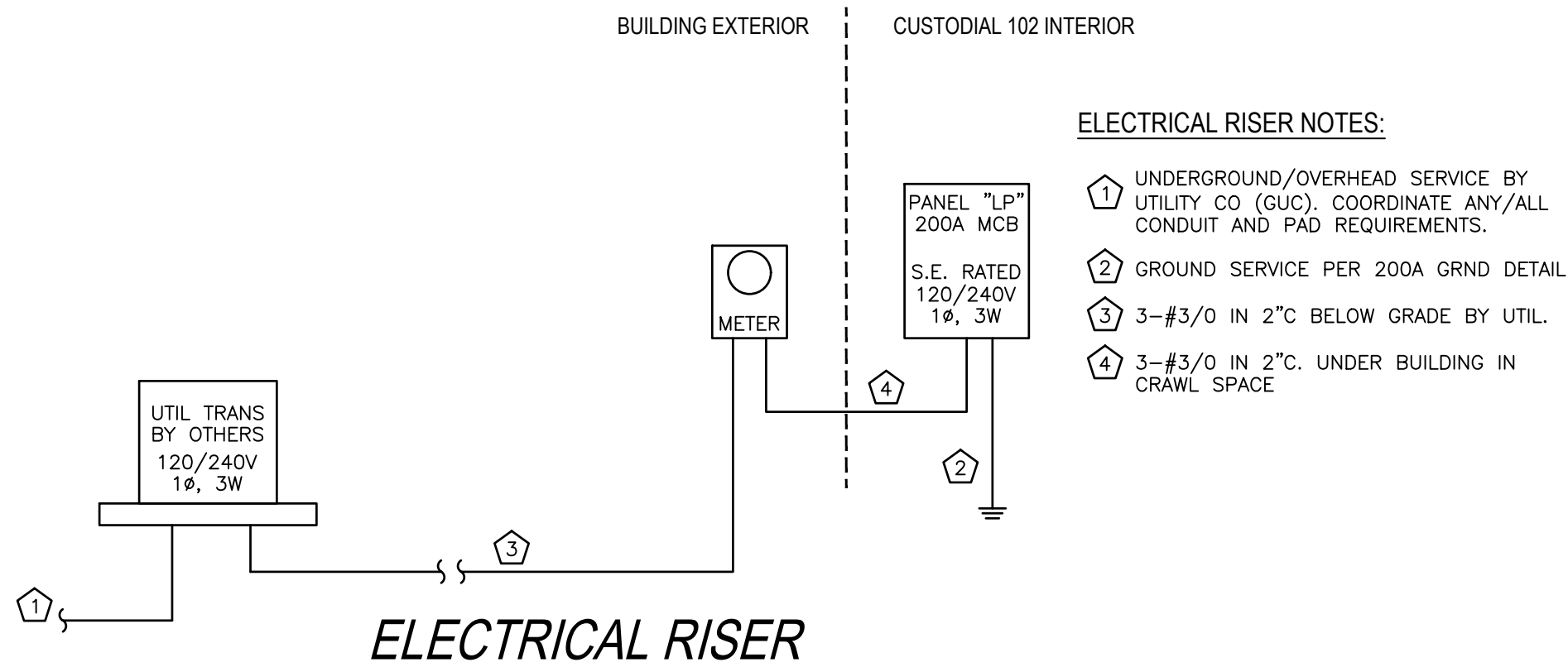
200A SERVICE ENTRANCE GROUNDING DETAIL

SCALE: NTS



101.1 POWER PLAN

SCALE: 1/4" = 1'



ELECTRICAL RISER NOTES:

- UNDERGROUND/OVERHEAD SERVICE BY UTILITY CO (GUC). COORDINATE ANY/ALL CONDUIT AND PAD REQUIREMENTS.
- GROUND SERVICE PER 200A GRND DETAIL
- 3-#3/0 IN 2" C. BELOW GRADE BY UTIL.
- 3-#3/0 IN 2" C. UNDER BUILDING IN CRAWL SPACE

LP DEMAND LOAD CALCS					
LIGHTING	0.28	KVAX	100	%	= 0.3 KVA
RECEPTAC TOTAL	1.00	KVA			
1ST	10.00	KVAX	100	%	= 1.0 KVA
REMAIN	0.00	KVAX	50	%	= 0.0 KVA
MOTORS	5.80	KVAX	100	%	= 5.8 KVA
A/C	0.00	KVAX	100	%	= 0.0 KVA
HEATING	2.25	KVAX	100	%	= 2.3 KVA
INTERLOCKED LOADS		KVAX	100	%	= 0.0 KVA
KITCHEN	0.00	KVAX	65	%	= 0.0 KVA
MISCELLANEOUS	3.30	KVAX	100	%	= 3.3 KVA
TOTAL					= 12.6 KVA

PANELBOARD SCHEDULE - 'LP'																																		
MAIN: 200A MCB					VOLTAGE 240/120					PHASE: 1					WIRE: 3					MOUNTING: SURFACE					A/C: 10,000					NOTES:				
LOAD (KVA)		PHASE		LOAD (KVA)		PHASE		LOAD (KVA)		PHASE		LOAD (KVA)		PHASE		LOAD (KVA)		PHASE		LOAD (KVA)		PHASE		LOAD (KVA)										
CTK #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #					
1	20	1	12 3/4"	3/4"	LIGHTING INTERIOR	0.1						0.1			0.2										LIGHTING - EXTERIOR	3/4"	10	1	30	2				
3	20	1	12 3/4"	3/4"	RECEPT - RR 103		0.2																	0.2	CONTACTOR (LC-1)	3/4"	12	1	20	4				
5	20	1	12 3/4"	3/4"	RECEPT - RR 101		0.2									0.6								RECEPT - CUST/EXTER	3/4"	12	1	20	6					
7	20	1	12 3/4"	3/4"	UNIT HEATER 102				0.8															0.8	UNIT HEATER 103	3/4"	12	1	20	8				
9	20	1	12 3/4"	3/4"	UNIT HEATER 101				0.8																EVH	3/4"	10	2	30	10				
11	20	1	12 3/4"	3/4"	SPARE																			1.5						12				
13	20	1	12 3/4"	3/4"	SPARE																			1.5						14				
15	20	1	12 3/4"	3/4"	SPARE																				SPARE	3/4"	12	1	20	16				
17	20	1	12 3/4"	3/4"	SPARE																				SPARE	3/4"	12	1	20	18				
19	20	1	12 3/4"	3/4"	SPARE																				* TIME CLOCK (LIFT STA)	3/4"	12	1	20	20				
21					SPACE																				* PATHWAY BOLLARD LTS	3/4"	12	1	20	22				
23					SPACE											2.9									* SEWER LIFT PUMP	3/4"	8	2	40	24				
25					SPACE											2.9									(2 - 2HP MOTORS)					26				
27					SPACE																				SPACE					28				
29					SPACE																				SPACE					30				
LIGHTING (KVA):						0.3		0.1	0.4	0.0	0.0	1.5	0.0	0.1		0.2	0.6	5.8	0.0	0.8	0.0	3.2		CONNECTED LOAD (KVA):						12.6				
RECEPTACLES (KVA):						1.0																			DEMAND LOAD (KVA):						12.6			
MOTORS (KVA):						5.8																												
A/C (KVA):						0.0																			CONNECTED LOAD (AMPS):						52.6			
HEATING (KVA):						2.3																			DEMAND LOAD (AMPS):						52.6			
KITCHEN (KVA):						0.0																												
MISCELLANEOUS (KVA):						3.3																			AMPCACITY REQUIRED:						52.9			
NOTES: *SEE CIVIL SITE DRAWING E1.1 AND FIELD VERIFY EXACT LIFT STA. ELECTRICAL REQUIREMENTS WITH NAME PLATE DATA AND ADJUST BREAKER & FEEDER AS NECESSARY.																																		

