Greenville
NORTH CAROLINA

WILDWOOD PARK
PARTF IMPROVEMENTS

TEG PROJECT NO. 20230059

ISSUE FOR CONSTRUCTION

MARCH 1, 2024

REVISED MARCH 14, 2024

THE EAST GROUP

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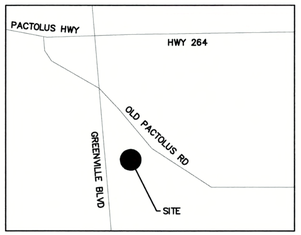
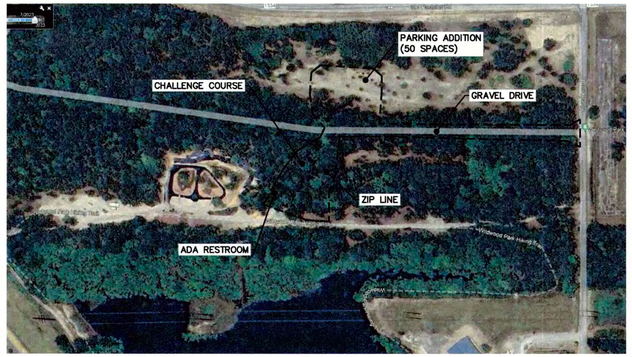


VICINITY

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 ☐ Approved as Noted_____

Zoning	Engineering
Surveyor/Floodplain	Inspections
Fire/Rescue	GUC Electric
GUC Water/Sewer	GUC Gas
NCDOT	Vegetation
Traffic Services	Notes

* Site plan approval ONLY. Engineer/Architect/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)

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

*** WAIVED BASED UPON PUBLIC PLAYGROUND USE.

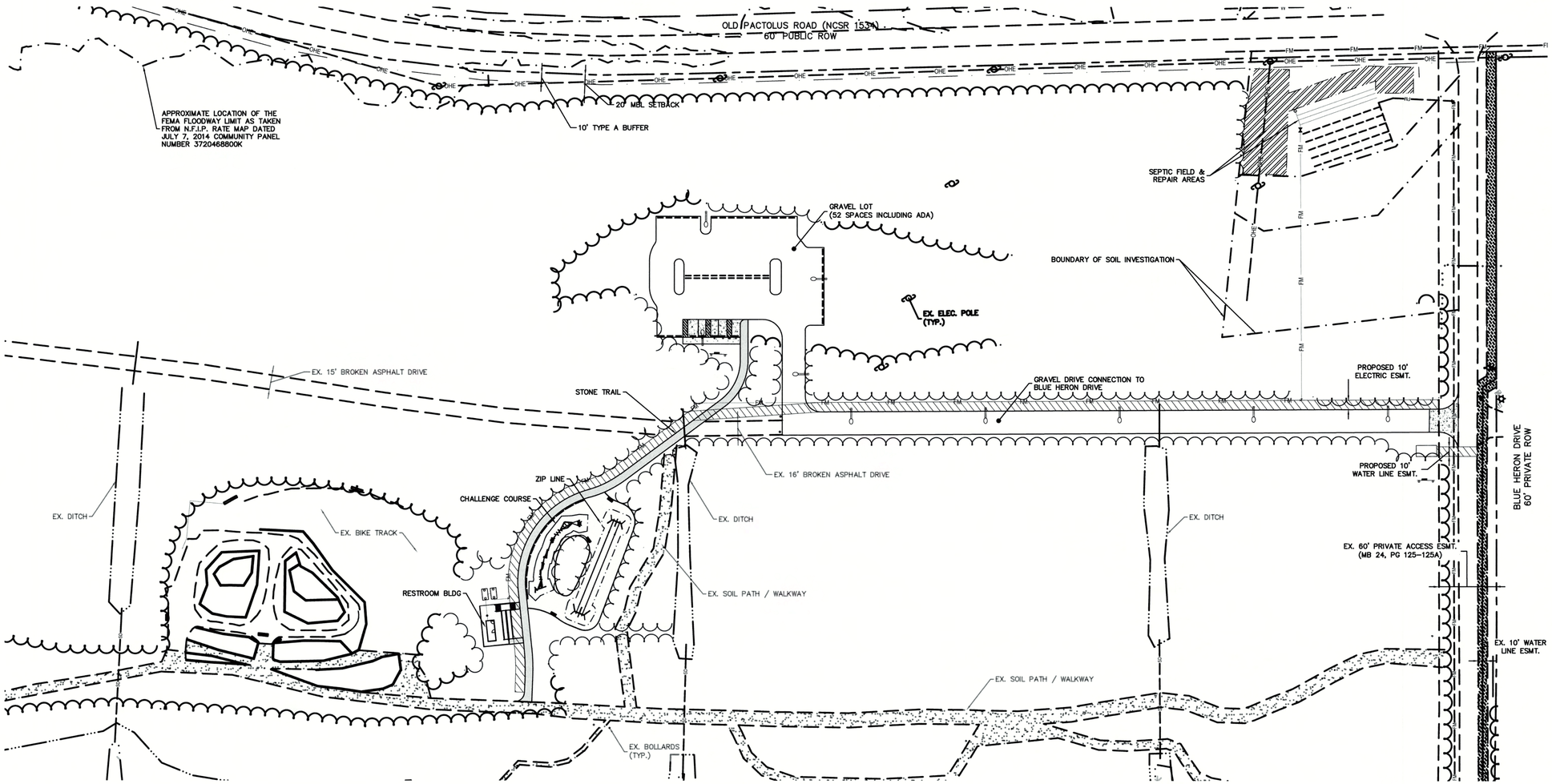
OVERALL LEGEND:

- EXISTING LIGHT POLE
- EXISTING FORCE MAIN
- EXISTING UTILITY POLE
- EXISTING WATER HYDRANT
- EXISTING WATER LINE
- EXISTING WATER VALVE
- OVERHEAD ELECTRIC
- REVISED SEPTIC AREAS
- TELEPHONE STRUCTURE
- 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



N

60 30 0 60'

THE EAST GROUP
▪ Engineering ▪ Architecture
▪ Surveying ▪ Technology
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NC Architectural License No. 50213
NC Landscape Architectural License No. C-427

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1509 3.1.24

SEAL

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

TEG PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
COMPOSITE PLAN

DRAWING NO.
L0.0

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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
--15--	EXISTING CONTOUR
EIS	EXISTING IRON STAKE
	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
	TREE CLEARING AREAS
W	WATER
WV	WATER VALVE
YI	YARD INLET

CONSTRUCTION LIMITS (TYP.)

ALTERNATE 3

MATCH LINE L0.2

EX. ELEC. POLE (TYP.)

ALTERNATE 2

EX. 15' BROKEN ASPHALT TO BE REMOVED

EX. 15' BROKEN ASPHALT DRIVE

EX. BROKEN DRAIN PIPE (COVERED IN DEBRIS) TO BE REMOVED / REPLACED

EX. 15' BROKEN ASPHALT TO BE REMOVED (EXCAVATE TOP 4" OF ASPHALT)

EX. CONEX TRAILERS

EX. FENCE

EX. RAMP

EX. WALL

EX. WALL

EX. DITCH

EX. ASPHALT PUMP TRACK

EX. CLAY SKILLS TRACK

CONSTRUCTION LIMITS (TYP.)

EX. TIMBER EDGING (TYP.)

ALTERNATE 4

EX. RAMP (TYP.)

EX. DITCH

EX. 24" CMP
INV. IN: 9.16' (NE)
INV. OUT: 6.02' (SW)

EX. 24" CMP
INV. IN: 9.56' (NE)
INV. OUT: 6.19' (SW)

EX. SOIL PATH / WALKWAY

MATCH LINE L0.2

ALTERNATE 6

EX. BOLLARDS (TYP.)

EX. CAMPING STRUCTURE (ENCLOSED & COVERED DECK)

EX. WETLANDS (TYP.) [APPROX. LOCATION]

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N

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Fax 919.784.9331

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

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1509 MEGHAN SHEWMAKER 3.1.24

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER 017480 TODD ALAN TRIPP 3/1/24

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

TEC PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE

Greenville NORTH CAROLINA

WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

EXISTING CONDITIONS, DEMOLITION, TREE PROTECTION (WEST)

DRAWING NO. L0.1

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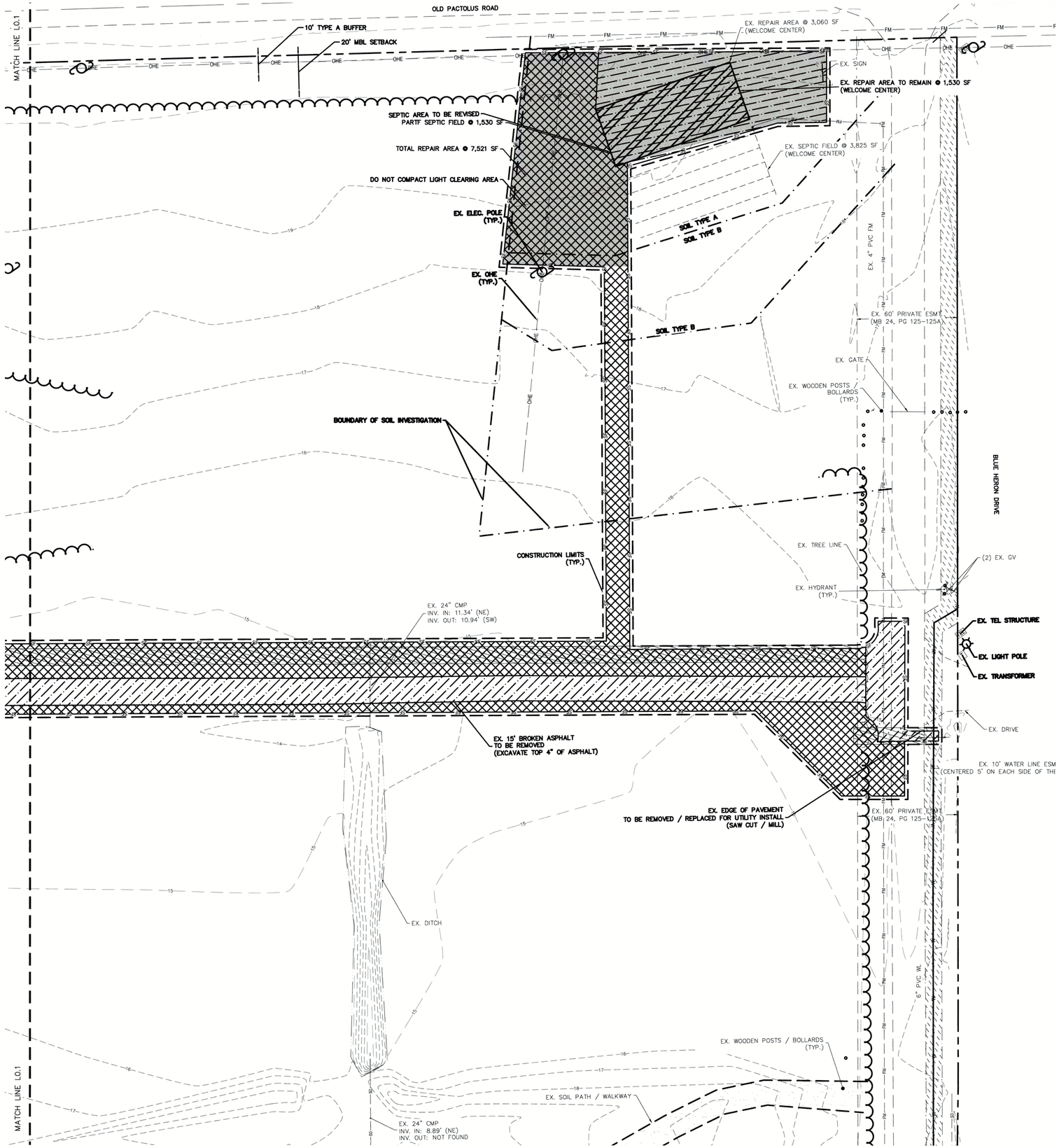
EXISTING CONDITIONS / DEMOLITION LEGEND:

ASW	ASPHALT WALK
CP	CONCRETE PAD
CSW	CONCRETE SIDEWALK
- - - -	CONSTRUCTION LIMITS
DI	DROP INLET
EB	ELECTRIC BOX
EMH	ELECTRICAL MANHOLE
--15--	EXISTING CONTOUR
EIS	EXISTING IRON STAKE
	EXISTING REPAIR AREA (SEPTIC)
EX.	EXISTING
	FEATURES TO BE REMOVED
GDW	GRAVEL DRIVEWAY
INV	INVERT
	LIGHT CLEARING AREA (SEPTIC FIELDS)
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
TB	TELEPHONE BOX
TYP.	TYPICAL
UE	ELECTRIC
UG	GAS
UGT	TELEPHONE/CABLE/FIBER OPTIC
	TREE CLEARING AREAS
W	WATER
WV	WATER VALVE
YI	YARD INLET



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SEAL
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1570 JOHN McMAHAN SHERROD
3-1-24

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NORTH CAROLINA PROFESSIONAL ENGINEER TODD ALAN TRIPP
3/1/24

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PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK PARTF IMPROVEMENTS

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

DRAWING NO.
L0.2

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GENERAL NOTES:

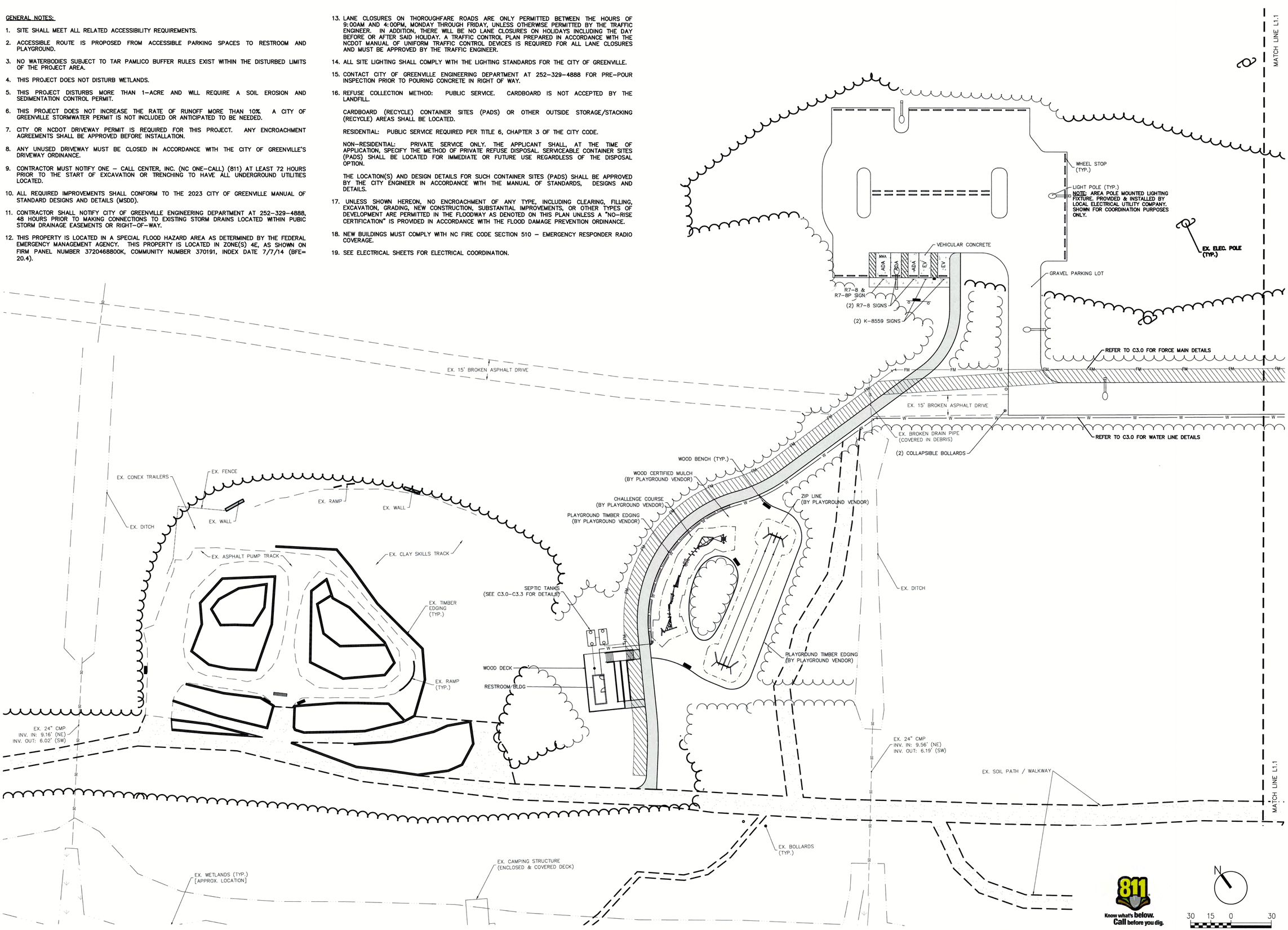
1. SITE SHALL MEET ALL RELATED ACCESSIBILITY REQUIREMENTS.
2. ACCESSIBLE ROUTE IS PROPOSED FROM ACCESSIBLE PARKING SPACES TO RESTROOM AND PLAYGROUND.
3. NO WATERBODIES SUBJECT TO TAR PAMLICO BUFFER RULES EXIST WITHIN THE DISTURBED LIMITS OF THE PROJECT AREA.
4. THIS PROJECT DOES NOT DISTURB WETLANDS.
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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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1509 McMAHAN SWINSON
3.1.24

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NORTH CAROLINA PROFESSIONAL ENGINEER TODD ALAN TRIPP
3/1/24

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Greenville NORTH CAROLINA
WILDWOOD PARK PARTF IMPROVEMENTS

DRAWING TITLE
SITE PLAN (WEST)

DRAWING NO. L1.0

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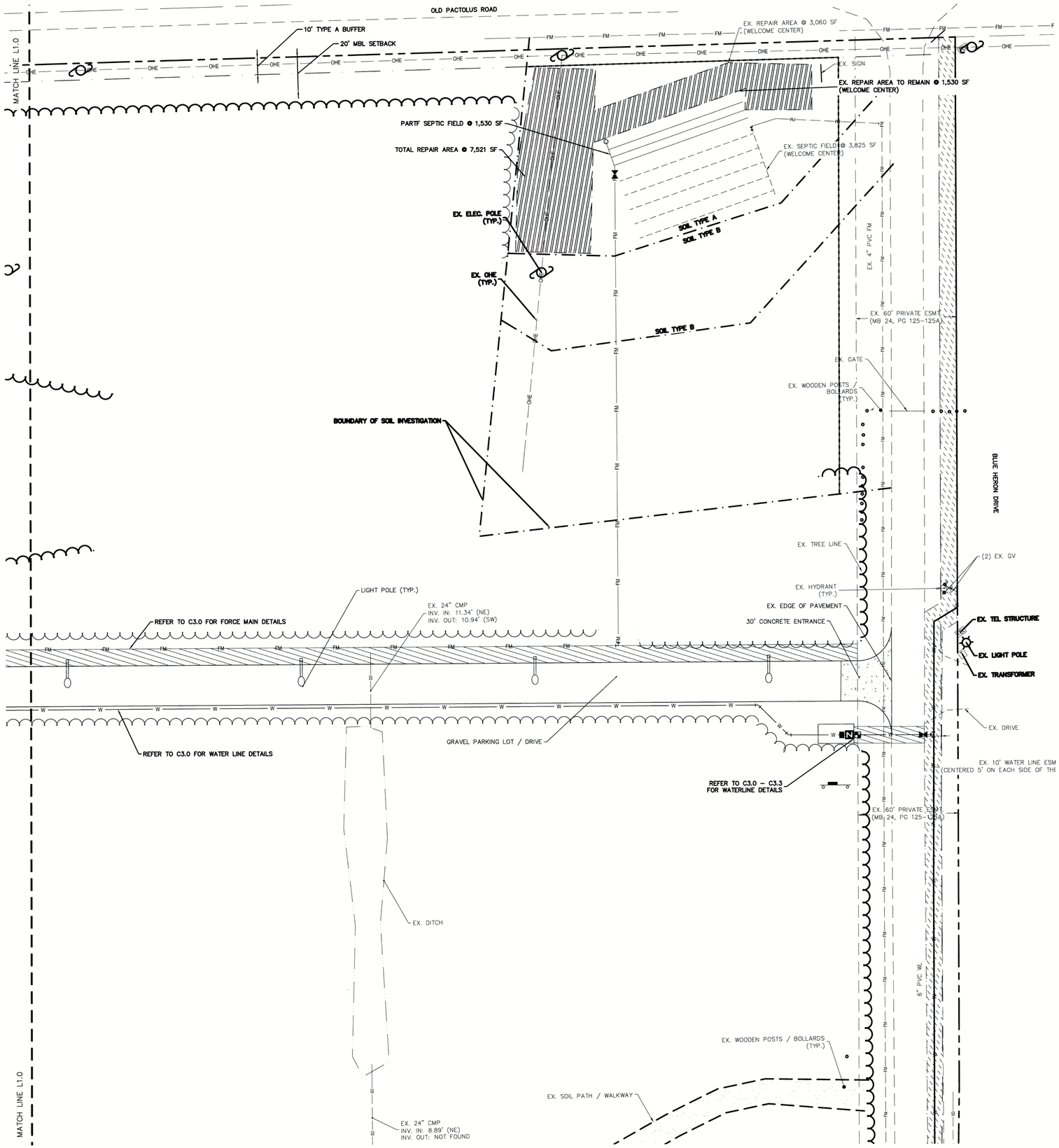
LEGEND:

ADDITIONAL REPAIR AREA (SEPTIC)



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  NC Landscape Architectural License No. C-427

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1509 MATTHEW SHEARIN 3-1-24

SEAL

NORTH CAROLINA PROFESSIONAL 017450 ENGINEER TODD ALAN TRIPP 3/1/24

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Greenville NORTH CAROLINA

WILDWOOD PARK PARTF IMPROVEMENTS

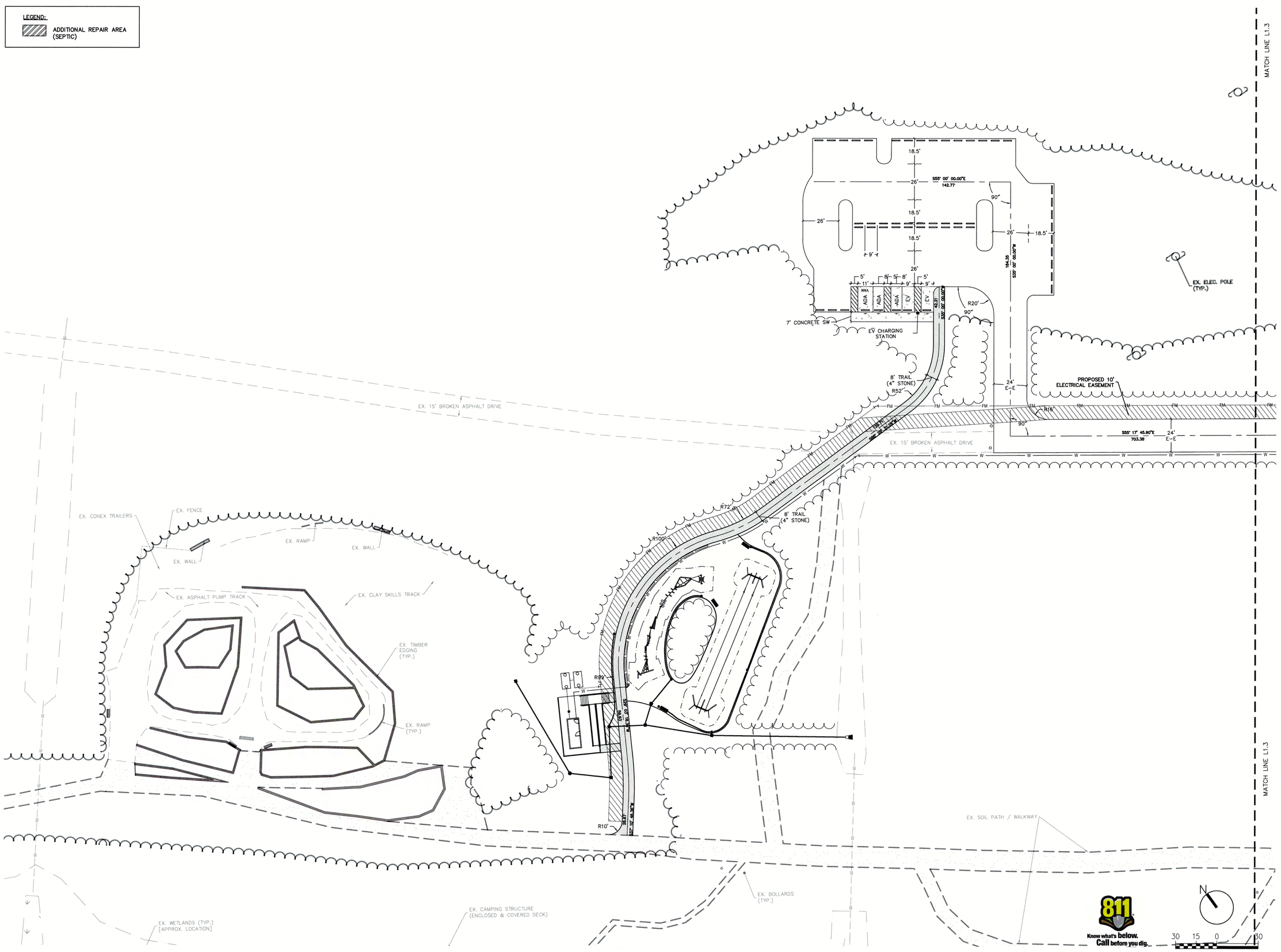
DRAWING TITLE

SITE PLAN (EAST)

DRAWING NO. L1.1

LEGEND:

ADDITIONAL REPAIR AREA (SEPTIC)



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SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1509 McMAHAN SHEWMAKE 3.1.24

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER 017480 TODD ALAN TRIPP 3/1/24

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WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

LAYOUT PLAN (WEST)

DRAWING NO.

L1.2

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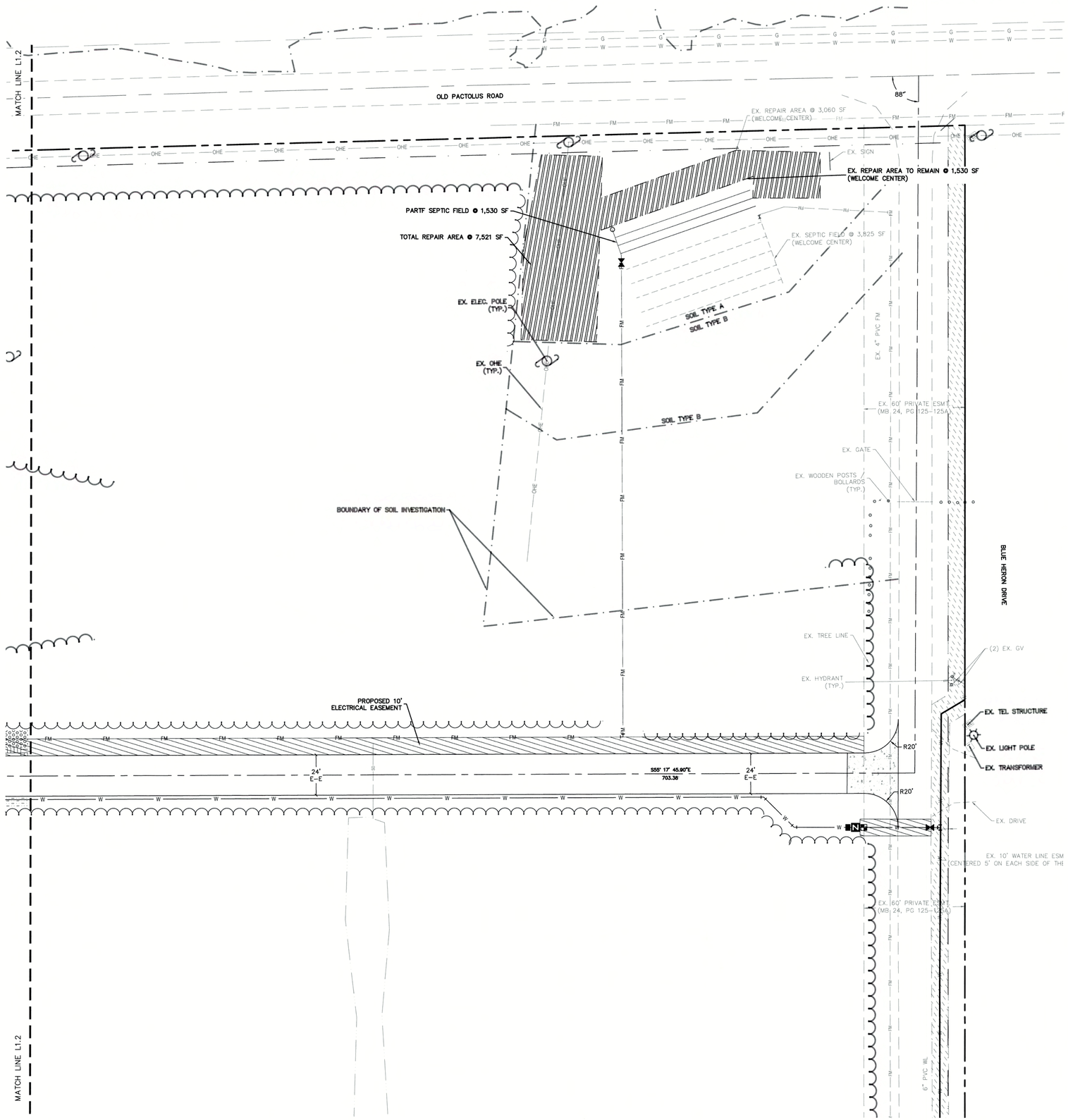
LEGEND:

ADDITIONAL REPAIR AREA (SEPTIC)



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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1509 JAMES MCMAHAN SHEWMAKE 3.1.24

SEAL

NORTH CAROLINA PROFESSIONAL 017480 ENGINEER TODD ALAN TRI 3/1/24

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DRAWING TITLE
LAYOUT PLAN (EAST)

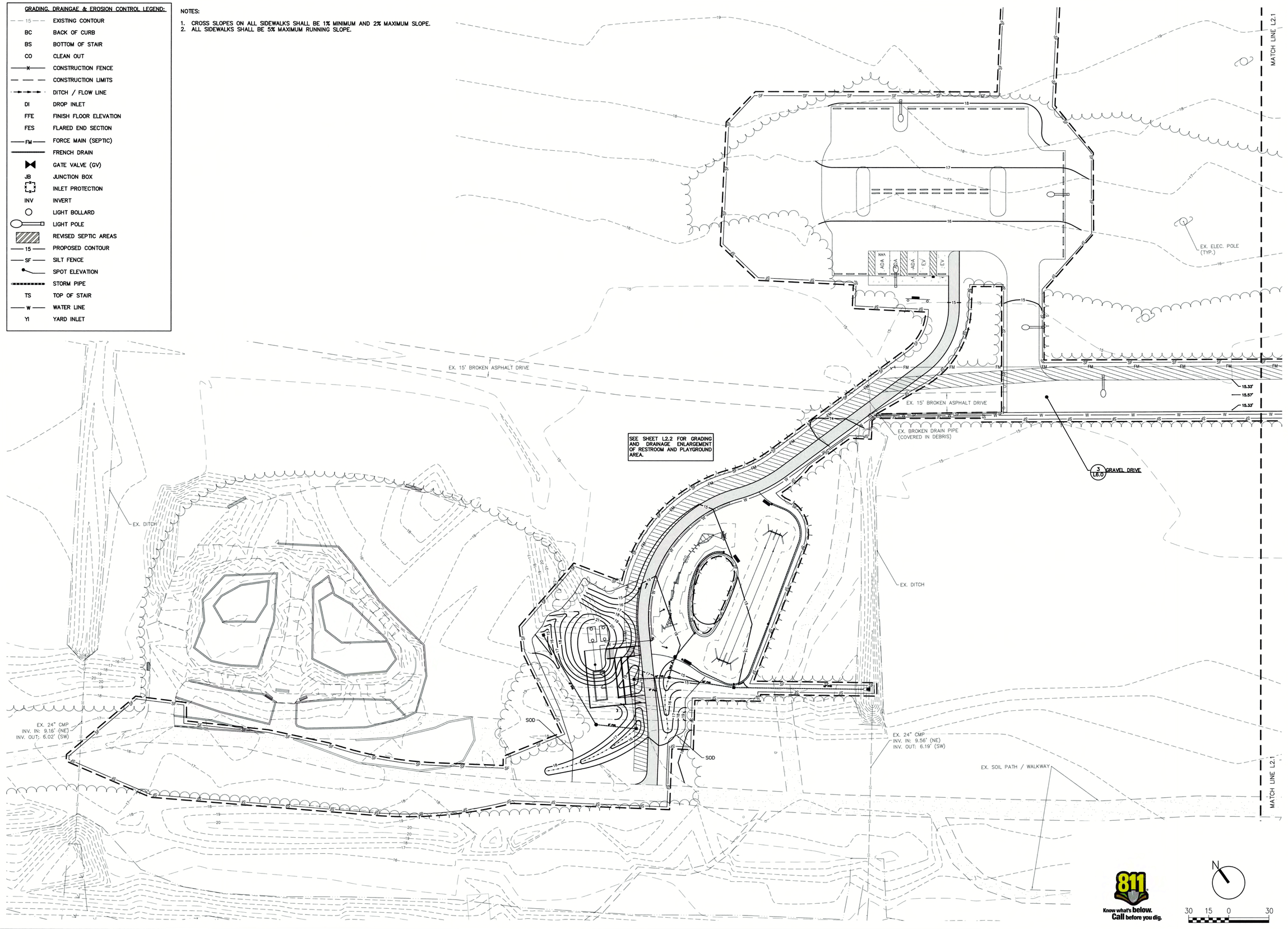
DRAWING NO.
L1.3

GRADING, DRAINGAE & 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)
JB	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 REGISTERED LANDSCAPE ARCHITECT 1509 McMAHAN SIMONS 3.1.24

SEAL

FOR CIVIL ONLY
NORTH CAROLINA PROFESSIONAL ENGINEER 017488 TODD A. TRIPP
3/1/24

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

TEG PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE

Greenville NORTH CAROLINA

WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

GRADING, DRAINAGE & EC PLAN (WEST)

DRAWING NO.

L2.0

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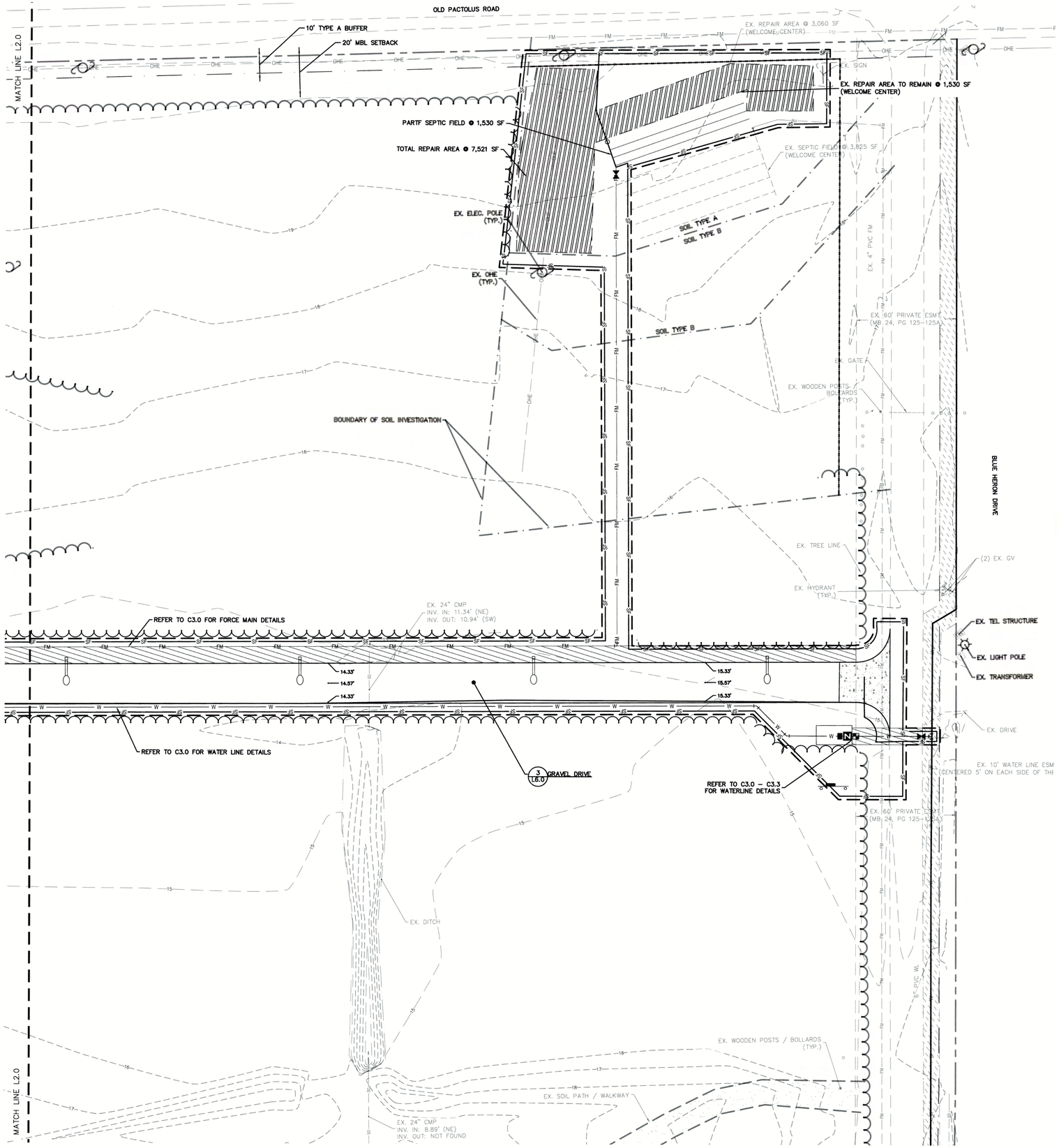
GRADING, DRAINGAE & EROSION CONTROL LEGEND:

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)
JB	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



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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1509 FRANK L. McMAHAN SHOEMYEN
3.1.24

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NORTH CAROLINA PROFESSIONAL ENGINEER TODD ALAN TRIPP
3/1/24

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TEG PROJECT NO.
20230059

DATE:
12.21.23

PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK PARTF IMPROVEMENTS

DRAWING TITLE
GRADING, DRAINAGE& EC PLAN (EAST)

DRAWING NO.
L2.1

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GRADING, DRAINGAE & 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
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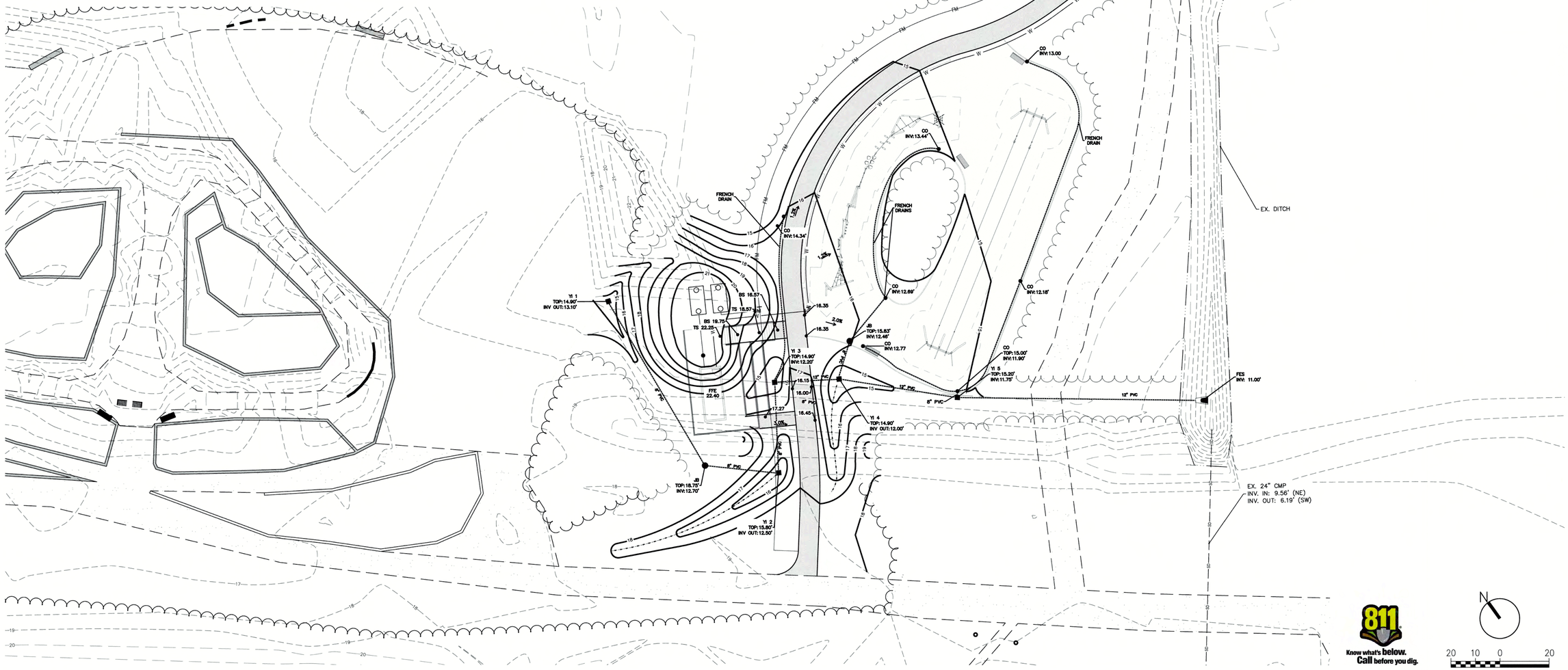

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1509 McMAHAN SHEPHERD 3.1.24

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NORTH CAROLINA PROFESSIONAL ENGINEER 017484 TODD ALAN TRIPP 3/1/24

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TEG PROJECT NO.
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DATE:
12.21.23

PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
GRADING & DRAINAGE ENLARGEMENT

DRAWING NO.
L2.2

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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 SWEPT 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 CLODS 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 ANALYSIS	400 LBS/ACRE

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 (HQW) 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 HQW ZONES)

SEEDING AND MULCHING

ALL ROADWAY AREAS

MARCH 1 – AUGUST 31		SEPTEMBER 1 – FEBRUARY 28	
50#	TALL FESCUE	50#	TALL FESCUE
10#	CENTIPEDE	10#	CENTIPEDE
25#	BERMUDAGRASS (HULLED)	35#	BERMUDAGRASS (HULLED)
500#	FERTILIZER	500#	FERTILIZER
4000#	LIMESTONE	4000#	LIMESTONE

WATER AND BORROW LOCATIONS

MARCH 1 – AUGUST 31		SEPTEMBER 1 – FEBRUARY 28	
75#	TALL FESCUE	75#	TALL FESCUE
25#	BERMUDAGRASS (HULLED)	35#	BERMUDAGRASS (HULLED)
500#	FERTILIZER	500#	FERTILIZER
4000#	LIMESTONE	4000#	LIMESTONE

NOTE: 50# OF BAHIAGRASS MAY BE SUBSTITUTED FOR EITHER CENTIPEDE 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 RESEEDED 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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NORTH CAROLINA PROFESSIONAL ENGINEER TODD ALAN TRIPP
3/1/24

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

TEG 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

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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 un-attended 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 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:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) 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:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the 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.

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:

(a) 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,
(b) 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,
(c) 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,
(d) 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,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) 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.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

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

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER TODD ALAN TRIPP
3/1/24

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

TEG PROJECT NO: 20230059
DATE: 12.21.23
PROJECT TITLE: Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF 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

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

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. 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

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. 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.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

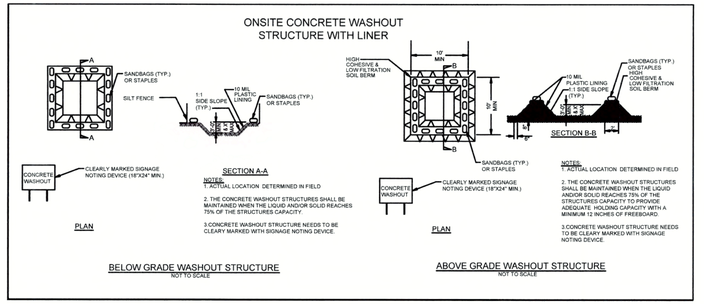
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled,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

PORTABLE TOILETS

1. 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.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. 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

1. 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.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. 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

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. 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.
3. 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.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

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SEAL

SEAL
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Todd Tripp
3/1/24

REV	DATE	DESCRIPTION	BY	CHK
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TEG PROJECT NO. 20230059
DATE: 12.21.23
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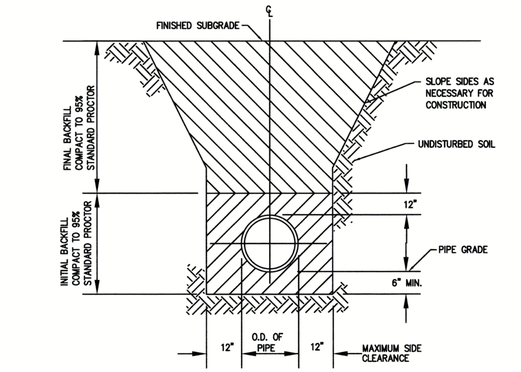
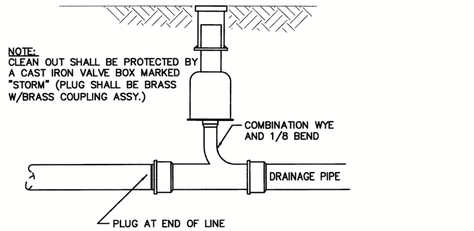
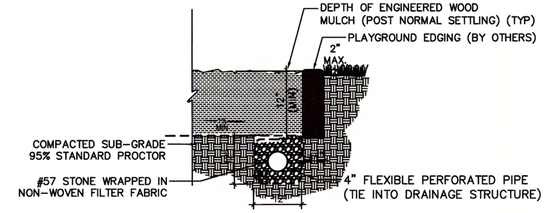
Greenville NORTH CAROLINA
WILDWOOD PARK PARTF IMPROVEMENTS
DRAWING TITLE
NCG01 GROUND STABILIZATION AND MATERIALS HANDLING
DRAWING NO. L2.5



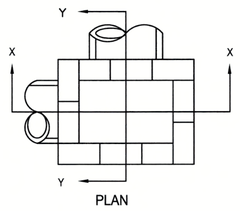
1 L2.6 STORM DRAIN TRENCH
N.T.S.



4 L2.6 CLEAN OUT
N.T.S.

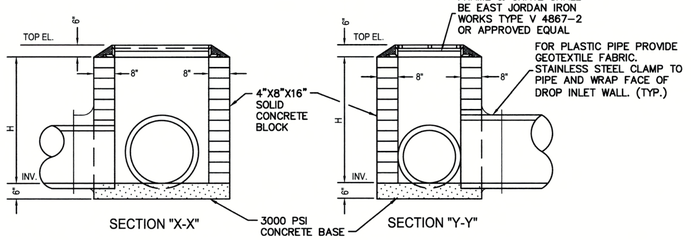


7 L2.6 FRENCH DRAIN BELOW WOOD FIBER MULCH (BOTTOM OF SLOPE CONDITION, AT PLAYGROUND EDGING)
NTS



PLAN

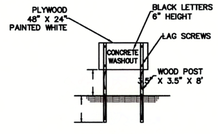
NOTE:
PRECAST CONCRETE BOXES MAY BE USED IN LIEU OF 8" BLOCK. CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO USE. DIMENSIONS SHALL BE AS NEEDED TO ACCOMMODATE PIPES WITH 6" CLEAR ON ALL SIDES. PROVIDE STEPS IN DRAINAGE BOXES 5' OR DEEPER.



2 L2.6 DROP INLET
N.T.S.

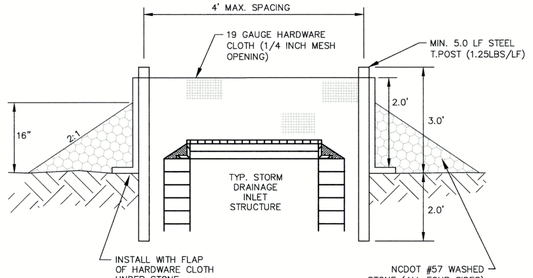
NOTES:
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD BUT NOT WITHIN 50FT OF A PROPOSED/ EXISTING CATCH BASIN AND/ OR INLETS, TOP OF BANK OF PERENNIAL STREAM, SURFACE WATER BODY, OR WETLAND.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED IN CLOSE PROXIMITY OF THE AREA AND SHALL BE CLEARLY VISIBLE.
3. GEOMEMBRANE BASIN LINER SHALL CONSIST OF A POLYPROPLENE 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.

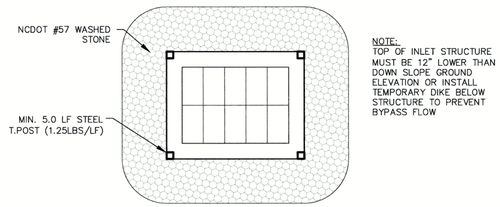
MAINTENANCE:
1. MAINTAIN WASHOUT STRUCTURE TO PROVIDE ADEQUATE CAPACITY PLUS A MINIMUM OF 12 INCHES. REMOVE AND DISPOSE HARDENED CONCRETE AND RETURN THE STRUCTURE TO A FUNCTIONAL CONDITION AFTER REACHING 75% CAPACITY.
2. INSPECT WASHOUT STRUCTURE FOR DAMAGE AND MAINTAIN FOR EFFECTIVENESS WEEKLY.
3. REMOVE 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.



CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT) REQUIRED FOR ANY OPTION

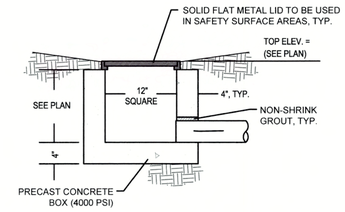
5 L2.6 CONCRETE WASHOUT DETAIL
N.T.S.





NOTE:
TOP OF INLET STRUCTURE MUST BE 12" LOWER THAN DOWN SLOPE GROUND ELEVATION OR INSTALL TEMPORARY DIKE BELOW STRUCTURE TO PREVENT BYPASS FLOW

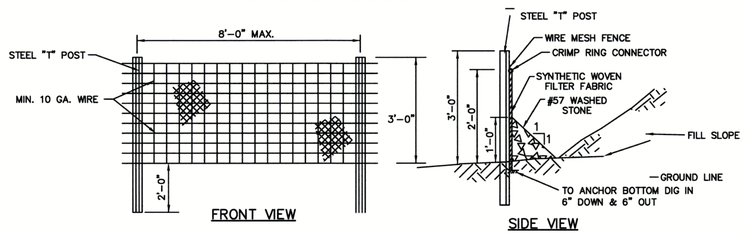
8 L2.6 HARDWARE CLOTH & GRAVEL INLET PROTECTION
N.T.S.



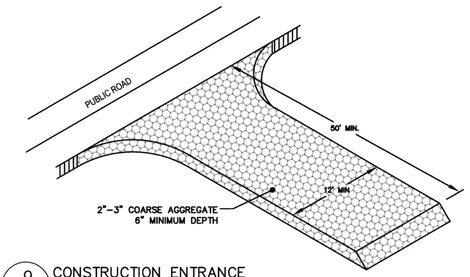
NOTE:
DRAINAGE INLETS AND PVC PIPE WITHIN PLAYGROUND SAFETY SURFACE AREA PROVIDED TO CREATE TIE-IN LOCATIONS FOR UNDERDRAIN SYSTEM (PROVIDED BY OTHERS). COORDINATE WITH PLAYGROUND CONTRACTOR FOR TIE-IN OF SAFETY SURFACE UNDERDRAIN INTO DRAINAGE SYSTEM.

3 L2.6 YARD INLET
N.T.S.

NOTE:
SEE SHEET L0.1. ENGINEER MAY REQUIRE ADDITIONAL SILT FENCE AS DICTATED BY SITE CONDITIONS DURING CONSTRUCTION.



6 L2.6 SILT FENCE
N.T.S.



9 L2.6 CONSTRUCTION ENTRANCE
N.T.S.

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■ Surveying ■ Technology
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NC Architectural License No. 50213
NC Landscape Architectural License No. C-427

SEAL
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1509 FRANK MORGAN STEWART
3-1-24

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NORTH CAROLINA PROFESSIONAL ENGINEER 017460 TODD ALAN TRIPP
3/1/24

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

TEG PROJECT NO. 20230059
DATE: 12.21.23
PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK PARTF IMPROVEMENTS
DRAWING TITLE
TREE PROTECTION, EROSION CONTROL & DRAINAGE DETAILS
DRAWING NO. L2.6

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PLANTING NOTES

The Contractor shall furnish plant material shown on the drawings, as specified and as indicated on the plant list. The Owner or his/her authorized representative shall be notified prior to the beginning of planting operations.

PRE-CONSTRUCTION CONFERENCE: Prior to commencing plant and irrigation installation, a Pre-Construction Conference shall be held. Attendees shall include Owner, General Contractor, Landscape and Irrigation Contractor(s) and Project Consultant or their designated representatives.

STANDARDS: All plants shall be in accordance with the American Standard For Nursery Stock, latest edition, published by the American Association of Nurserymen, Inc. with regard to sizing and description.

QUALITY: All plants shall be nursery grown and hardy under climatic conditions similar to those in the locality of the project. All plants shall be typical of their species or variety and shall have a normal habit of growth. They shall be sound, healthy and vigorous, well branched and densely foliated when in leaf. They should be free of disease and insect pests, eggs or larvae. They shall have healthy, well-developed root system.

SUBSTITUTIONS: When plants of a specified kind or size are not available within a reasonable distance, the contractor may make substitutions upon request, if approved by the Project Consultant. Proposal for substitution of plant material shall be submitted at least 10 days prior to the final bid date for consideration.

SIZE: All plants shall conform to all measurements specified on the plant list unless otherwise authorized in writing by the Project Consultant.

PRUNING: Each tree and shrub shall be pruned in accordance with American Association of Nurserymen, Inc. standards to preserve the natural character of the plant. All dead wood or suckers and all broken or badly bruised branches shall be removed.

ROOT SYSTEMS: Ball & burlap plants shall be dug with firm natural balls of earth of diameter and depth to include most of the fibrous roots. Container grown stock shall have been grown in a container long enough for the root system to have developed sufficiently to hold its soil together firm and whole. No plants shall be loose in container or ball.

PROTECTION: Root balls trunks, branches and foliage of plants shall be adequately protected at all times from sun and drying wind or frost. Plants with broken root balls or excessive damage to the crown shall be replaced, in kind, prior to installation.

MULCH: Immediately following plant installations all tree and shrub planting pits shall be covered with three-inch (3") layer of non-dyed, triple shredded mulch. Ornamental Grasses and Perennial Flowers shall be covered with two-inch (2") larger Final grade of mulch shall be ½" below adjacent surface or steel edging to prohibit washout or migration of mulch to adjacent surface.

ANTI-DESICCANT SPRAY: Trees and when planted in leaf shall be treated with anti-desiccant such as "Wilt-Proof".

TOPSOIL: Topsoil used shall be fertile agricultural soil; typical for locality; capable of sustaining vigorous plant growth; taken from drained sites; free of subsoil, rocks, 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).
- All groundcover and ornamental grasses shall have a minimum 12" of topsoil applied (depth after rolling).
- All tree and shrub beds shall have a minimum 18" of topsoil applied (depth after rolling).

STAKING & GUYING: Trees shall be staked and guyed as is detailed on the drawings and according to accepted industry practice, only when directed by Project Consultant.

LAYOUT: The contractor shall layout with identifiable stakes , the location of all plants and the the arrangement and outlines of planting beds as indicated on the drawings. Prior to any excavation of plant pits or preparation of plant beds, the Project Consultant shall approve the layout of planting. All planting shall be at the locations indicated on the drawings. The Contractor shall be responsible for planting at the correct grades, alignment and layout of planting beds. Minor adjustments to tree locations may be necessary due to field conditions and final grading. The Contractor shall notify the Project Consultant if major adjustments are anticipated.

ADVERSE CONDITIONS: The contractor shall notify the Project Consultant in writing of any soil or drainage conditions which the Contractor considers detrimental to plant growth. The documented conditions shall include a proposal for correcting the situation, including any change in cost, for review and acceptance by the Project Consultant.

QUANTITY: The quantity of plants in the Plant Schedule is for general reference only. The Contractor shall obtain quantities for pricing by compiling numbers from the plants illustrated on the drawings. Should there be a discrepancy between the drawings and the plant schedule, the quantities illustrated on the drawings shall take precedence.

GUARANTEE: The Contractor shall guarantee all plant material for a full year from the date of initial acceptance. It is the Contractors responsibility to monitor the project during the guarantee period and notify the Owner in writing if problems are occurring or situations developed that appear detrimental to the plant material. Any plant material that is 25% dead or more shall be considered dead and must be replaced at no charge to the Owner. A tree is considered dead when the main leader has died back or there is 25% of the crown dead.

CITY OF GREENVILLE PLANTING NOTES:

A. MINIMUM PLANT SIZES SHALL BE IN ACCORDANCE WITH THE ZONING REGULATIONS AS FOLLOWS:

PLANTING MATERIAL TYPE	MINIMUM PLANTING SIZE
1. LARGE TREE -SINGLE STEM	10' (HEIGHT) AND 2" CAL.
MULTI-STEM	10' (HEIGHT)
2. SMALL TREE	8' (HEIGHT) AND 1.5" CAL.
3. SHRUB	18" (HEIGHT) EXCEPT AS PROVIDED UNDER 9-4-267

B. ALL REQUIRED PLANT MATERIAL (LARGE AND SMALL TREES, SHRUBS) LOCATED IN A SCREENING BUFFERYARD (C,D,E &F) SHALL BE EVERGREEN.

C. NO PORTION OF ANY PARKING AREA, INCLUDING ANY DRIVEWAY, PARKING SPACE, DRIVE AISLE OR TURNING AREA, SHALL BE LOCATED MORE THAN THIRTY (30) FEET FROM AN ON-SITE SMALL TREE OR MORE THAN SEVENTY-FIVE (75) FEET FROM AN ON-SITE LARGE TREE. FOR PURPOSES OF THIS SECTION, THE MEASUREMENT SHALL BE FROM THE FARTHEST EDGE OF THE SUBJECT AREA TO THE CENTER OF THE BASE OF THE CLOSEST QUALIFYING TREE.

D. SITE PLAN APPROVAL FROM THE RESPECTIVE EASEMENT HOLDER SHALL BE CONSTRUED AS APPROVAL OF ALL ENCROACHMENTS, AS SHOWN. ON THIS PLAN. (SEE NOTE ON ITEM 1.D.)

E. THE FOLLOWING VEGETATION MATERIALS, AS LISTED BY COMMON NAME, SHALL CONSTITUTE NOT MORE THAN TWENTY-FIVE (25) PERCENT OF THE TOTAL REQUIREMENT FOR THE SPECIFIC CATEGORY:

LARGE TREE CATEGORY:	RIVER BIRCH
SMALL TREE CATEGORY:	ARISTOCRAT PEAR, BRADFORD PEAR CAPITOL PEAR, CLEVELAND SELECT PEAR
EVERGREEN SHRUB CATEGORY:	RED TIP PHOTINIA

F. DUMPSTER/COMPACTOR SHALL BE SCREENED ON 3 SIDES IN ACCORDANCE WITH SECTION 9-4-268 (h) OF THE CITY CODE.

G. EXISTING SUBSTITUTE VEGETATION MATERIALS HAVE BEEN NOTED INCLUDING THEIR SPECIFIC LOCATION(S), TYPE(S), AND SIZE(S).

H. EXISTING SUBSTITUTE VEGETATION MATERIAL SHALL BE PROTECTED FROM SITE DEVELOPMENT ACTIVITIES IN ACCORDANCE WITH SECTION 9-4-265 (F) OF THE CITY CODE.

I. NO LARGE TREES TO BE PLANTED WITHIN SANITARY SEWER OR WATERLINE EASEMENTS.

J. PARKING LOT AREA TO BE SCREENED IN ACCORDANCE WITH SECTION 9-4-268(L)9 OF THE CITY CODE. PARKING AREA SCREENING SHALL BE INSTALLED WITHIN A 10 FOOT AREA ADJACENT TO AND EXTENDING THE FULL STREET SIDE WIDTH OF ALL PARKING AREAS WHICH FRONT A PUBLIC OR PRIVATE STREET.

K. MINIMUM OF 3 FEET CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE BUILDING CODE.

L. VEGETATION WITHIN 10' OF BUILDING SHALL NOT COUNT TOWARD SITE REQUIREMENTS.

VEGETATION REQUIREMENTS PER ARTICLE P, CITY OF GREENVILLE, NC ZONING REGULATIONS

A. REQUIRED VEGETATION PER ACRE FOR 3.9 ACRE SITE:

LARGE TREES (5 x 3.9 ACRE) = 20
(2) SHOWN AND (18) EXISTING 2" CAL./10' HT. TREES

SMALL TREES (10 x 3.9 ACRE) = 39
(0) SHOWN AND (20) EXISTING 2" CAL./10' HT. TREES
SUBSTITUTED FOR (39) SMALL TREES

SHRUBS (25 x 3.9 ACRE) = 98
(0) SHOWN AND (20) EXISTING 2" CAL./10' HT. TREES
SUBSTITUTED FOR (98) SHRUBS

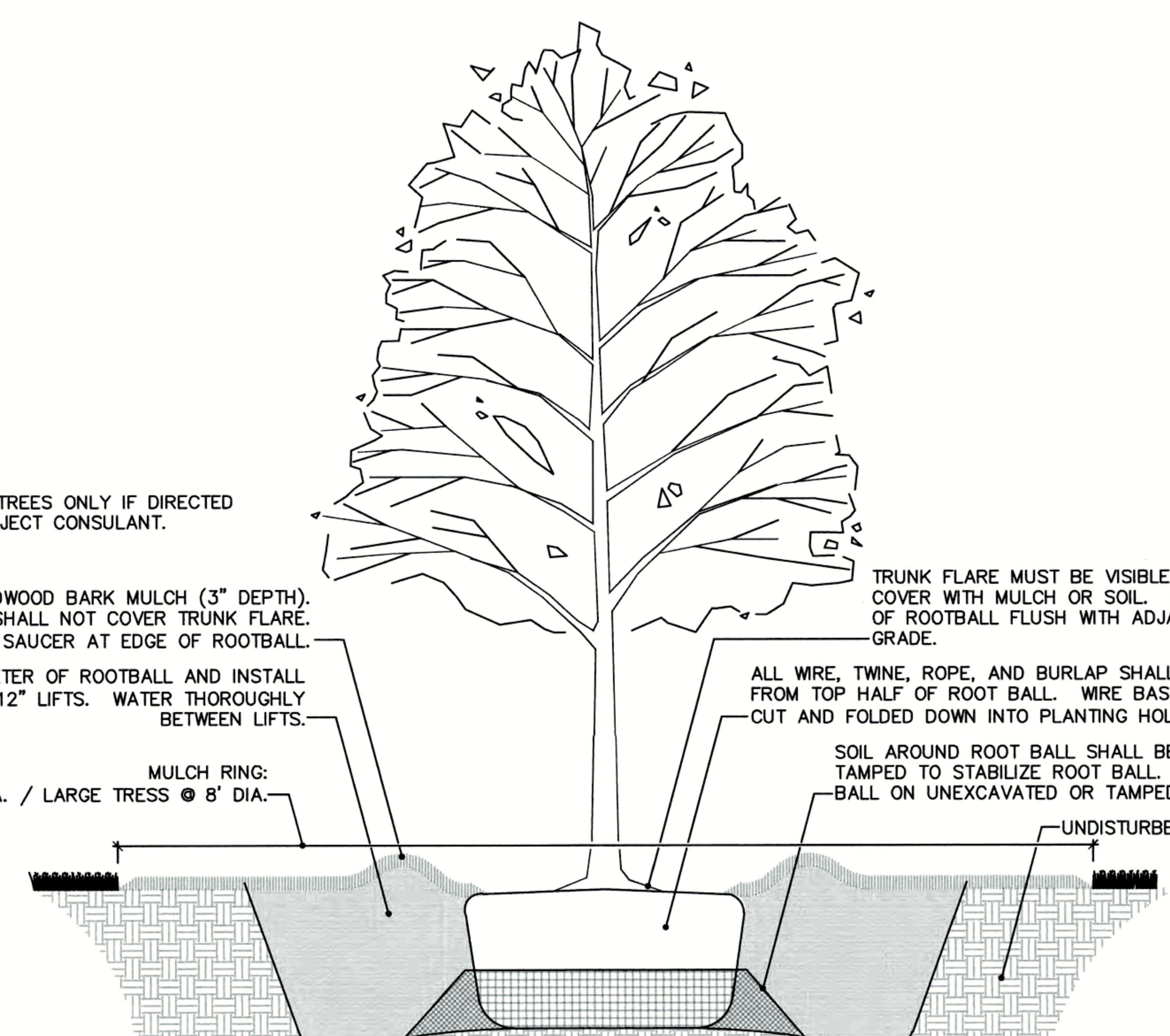
PROPOSED VEGETATION SUBSTITUTIONS:

- * EXISTING 2" CAL. OR MORE, BUT LESS THAN 6" CAL., LARGE TREES (10' MIN. HT.) FOR (2) SMALL TREES OR (5) SHRUBS.
- * PROJECT AREA INCLUDES APPROXIMATELY 0.10 ACRES OF WOODS (60+ 2" CALIPER / 10'+ HT. TREES) THAT WILL NOT BE DISTURBED.

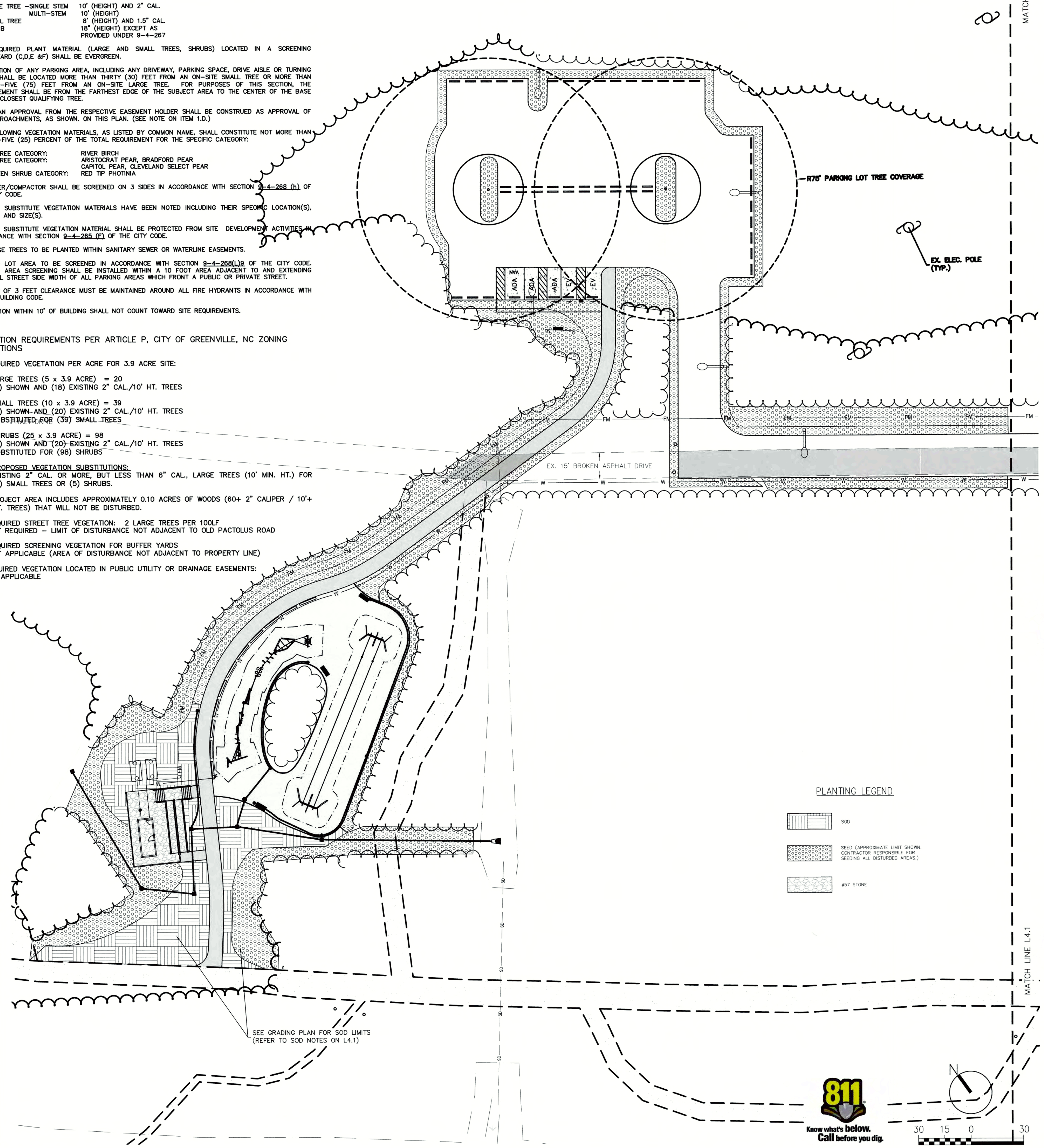
B. REQUIRED STREET TREE VEGETATION: 2 LARGE TREES PER 100LF
NOT REQUIRED - LIMIT OF DISTURBANCE NOT ADJACENT TO OLD PACTOLUS ROAD

C. REQUIRED SCREENING VEGETATION FOR BUFFER YARDS
NOT APPLICABLE (AREA OF DISTURBANCE NOT ADJACENT TO PROPERTY LINE)

D. REQUIRED VEGETATION LOCATED IN PUBLIC UTILITY OR DRAINAGE EASEMENTS:
NOT APPLICABLE



1 / L4.0 TREE PLANTING DETAIL
N.T.S.



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SEAL

SEAL: NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1508 MYRIAH McMAHAN SHEWCHUK — 3.1.24

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

TEG PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE: Greenville NORTH CAROLINA — WILDWOOD PARK PARTF IMPROVEMENTS

DRAWING TITLE: PLANTING PLAN (WEST)

DRAWING NO. L4.0

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.

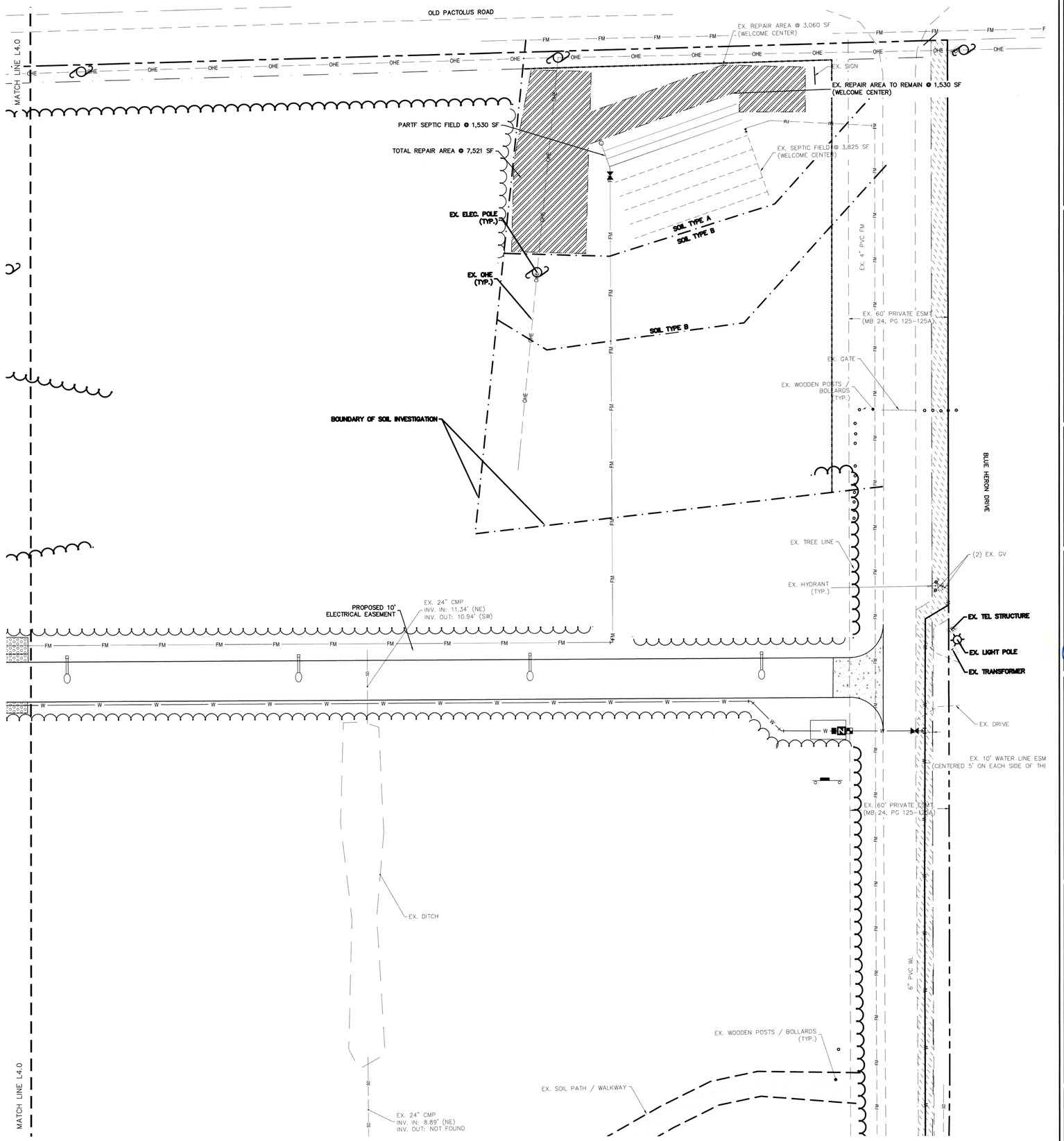
Protection – The Contractor shall provide adequate protection for lawn areas at all times against damage of any kind during installation or other related operations. Such protection shall be maintained from the completion of site preparation to the completion of Contract work.

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 ½ 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



811 Know what's below. Call before you dig.

N

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  NC Landscape Architectural License No. C-427

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1500 Kristen McMahan Greenway 3-1-24

REV	DATE	DESCRIPTION	BY	CHK
0	03-07-24	ISSUE FOR CONSTRUCTION	AF	MS

TEG PROJECT NO: 20230059

DATE: 12.21.23

PROJECT TITLE: Greenville NORTH CAROLINA
WILDWOOD PARK PARTF IMPROVEMENTS

DRAWING TITLE: PLANTING PLAN (EAST)

DRAWING NO: L4.1

17

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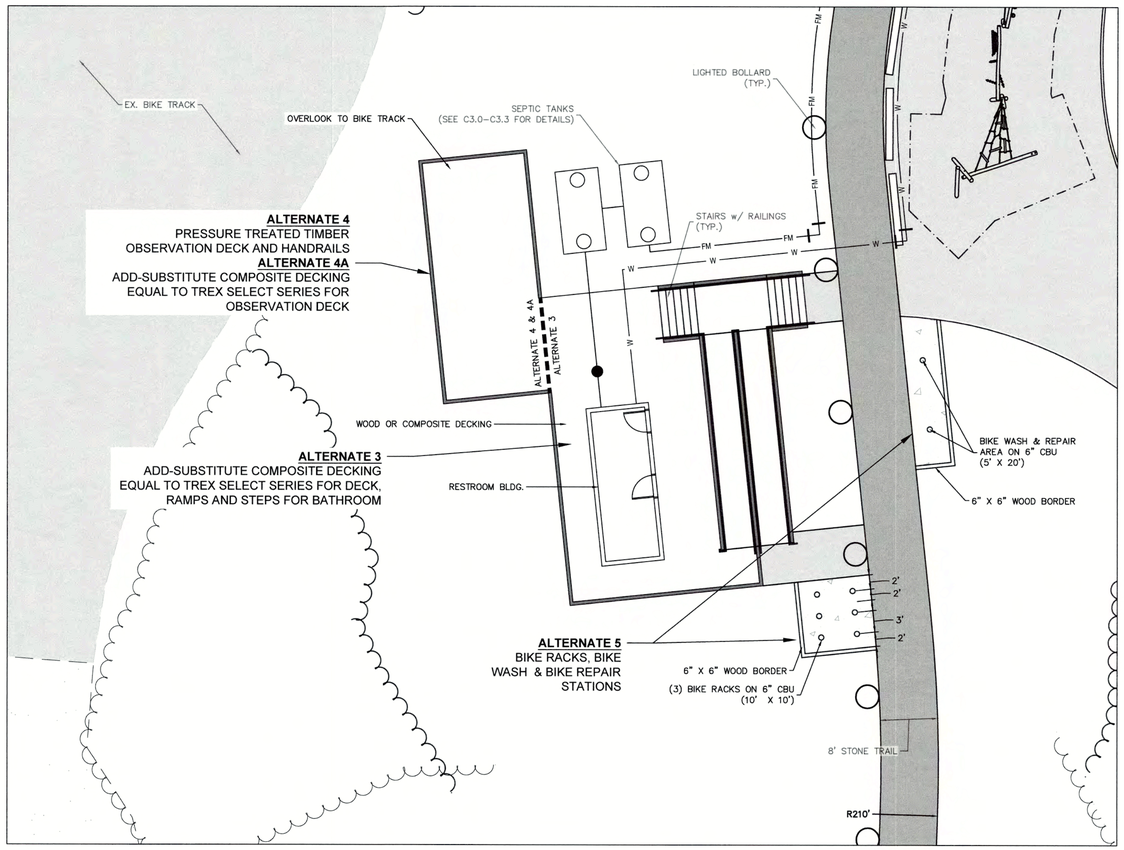
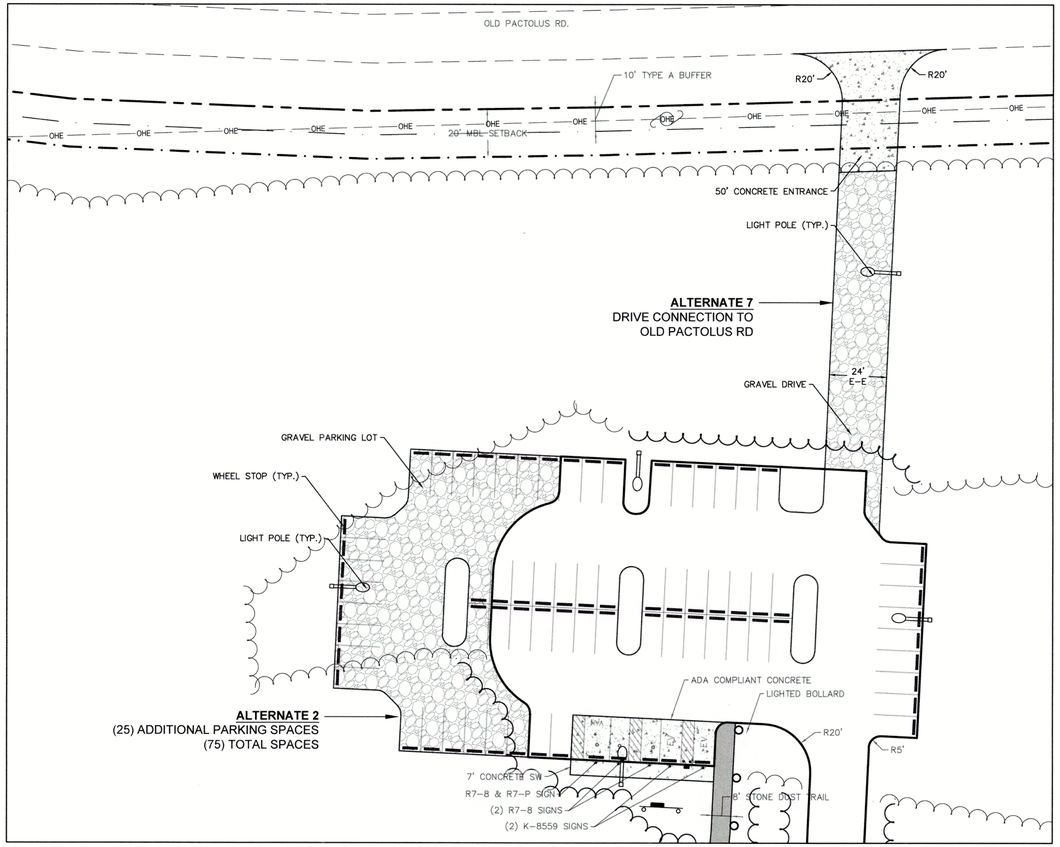
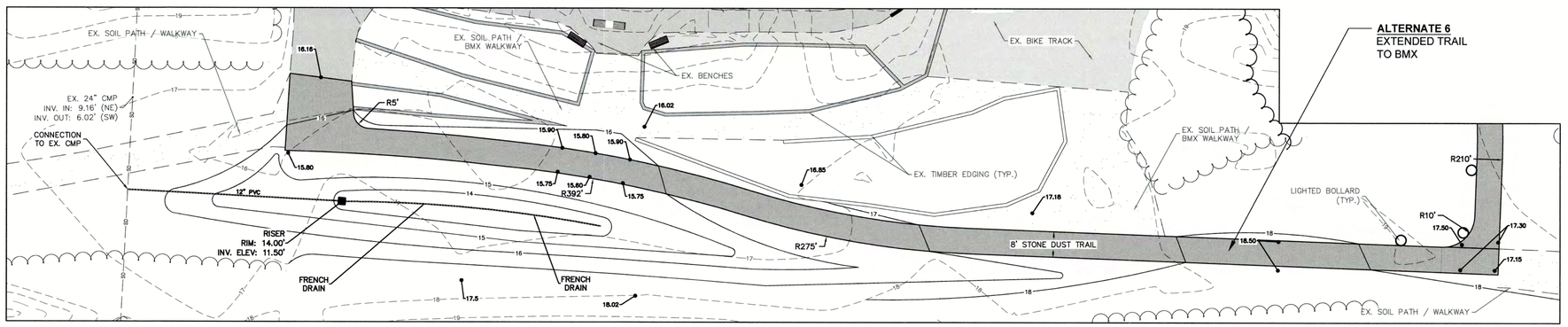


ALTERNATES: PRESSURE TREATED TIMBER DECK & SITE FURNISHINGS
SCALE: 1" = 10'



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.

N
SCALE AS NOTED ABOVE

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SEAL
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1509 JOHN McMAHAN
3-1-24

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER TODD ALAN TRIER
3/1/24

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

TEG PROJECT NO.
20230059

DATE:
12.21.23

PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
ALTERNATES

DRAWING NO.
L5.0

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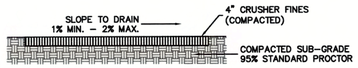
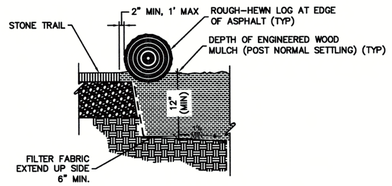
NOTE:
TRAIL MUST BE ADA COMPLIANT.
CROSS SLOPE SHALL NOT EXCEED 2% AND RUNNING SLOPE SHALL NOT EXCEED 5%

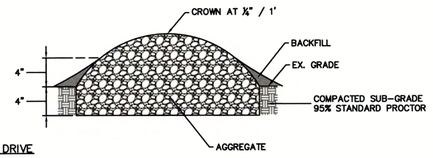
CRUSHER FINES TO MEET THE FOLLOWING:
⅜" SIEVE ● 100% PASSING
¼" SIEVE ● 65% PASSING
#4 SIEVE ● 50% PASSING
#8 SIEVE ● 35% PASSING
#16 SIEVE ● 25% PASSING



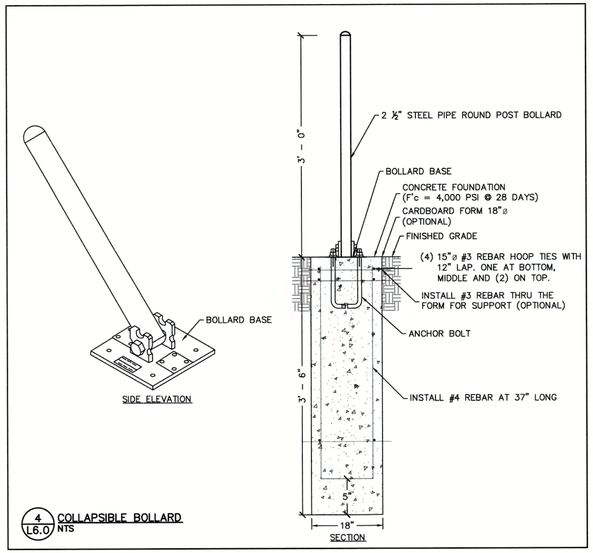
1 L6.0 STONE (CRUSHER FINES) TRAIL
NTS



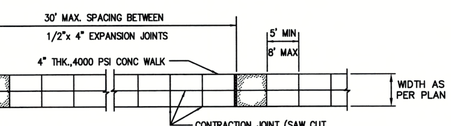
2 L6.0 LOG EDGING
NTS



3 L6.0 GRAVEL DRIVE
NTS



4 L6.0 COLLAPSIBLE BOLLARD
NTS



NOTE:
PROVIDE EXPANSION JOINT AT EITHER SIDE OF STAIR LANDINGS, AND AGAINST ALL EXISTING BUILDINGS, WALLS, AND CONCRETE.

5 L6.0 SIDEWALK DETAIL
NTS

COLORS
SIGNS
- LETTERING AND BORDER-GREEN WHITE SYMBOL ON BLUE BACKGROUND BACKGROUND-WHITE

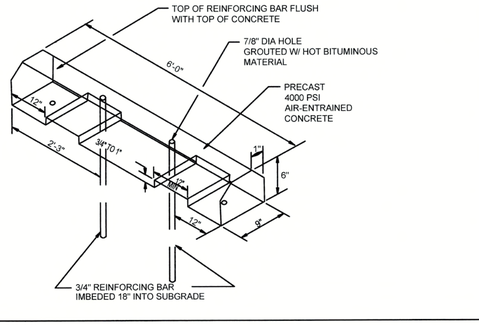
HANDICAP SPACES
- STRIPING TO BE BLUE PAINT, AS APPROVED BY OWNER.

NOTE:
SIGNS TO BE MOUNTED TO ROUND WHITE POLES PER OWNER'S SPECIFICATION.

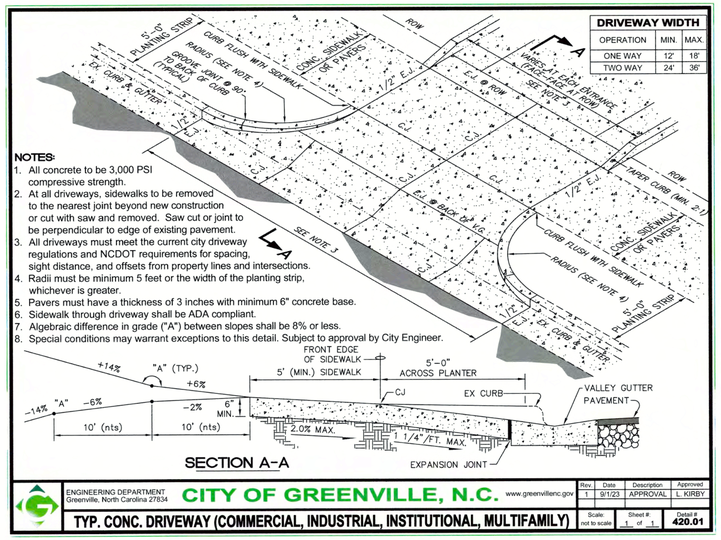
MOUNTING HEIGHT FROM FINISHED PAVEMENT (OR SIDEWALK) TO BOTTOM OF SIGN SHALL BE:
- 60" ABOVE SIDEWALK WHEN MOUNTED BEHIND SIDEWALK
- 84" ABOVE SIDEWALK WHEN MOUNTED AT FRONT EDGE OF SIDEWALK
- 60" ABOVE PAVEMENT WHEN MOUNTED OUT IN PARKING LOT

NOTE:
SEE SITE PLAN C1.1 FOR LOCATION OF VAN ACCESSIBLE SIGNS

6 L6.0 ACCESSIBLE PARKING SIGN DETAIL
NTS



7 L6.0 WHEEL STOP
NTS



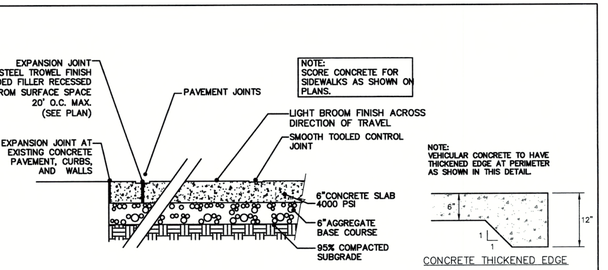
NOTES:
1. All concrete to be 3,000 PSI compressive strength.
2. At all driveways, sidewalks to be removed to the nearest joint beyond new construction or cut with saw and removed. Saw cut or joint to be perpendicular to edge of existing pavement.
3. All driveways must meet the current city driveway regulations and NCDOT requirements for spacing, sight distance, and offsets from property lines and intersections.
4. Radii must be minimum 5 feet or the width of the planting strip, whichever is greater.
5. Pavers must have a thickness of 3 inches with minimum 6" concrete base.
6. Sidewalk through driveway shall be ADA compliant.
7. Algebraic difference in grade ("A") between slopes shall be 8% or less.
8. Special conditions may warrant exceptions to this detail. Subject to approval by City Engineer.

ENGINEERING DEPARTMENT
Greenville, North Carolina 27834
CITY OF GREENVILLE, N.C.
www.greenvillenc.gov

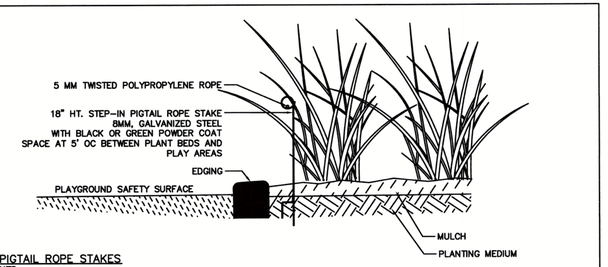
TYP. CONC. DRIVEWAY (COMMERCIAL, INDUSTRIAL, INSTITUTIONAL, MULTIFAMILY)

Rev.	Date	Description	Approved
1	9/1/23	APPROVAL	L. KIRBY

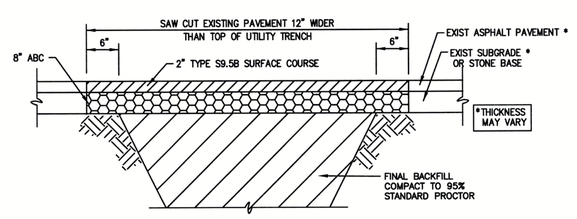
Scale: not to scale | Sheet # 1 of 1 | Detail # 420.01



8 L6.0 VEHICULAR CONCRETE
NTS



9 L6.0 PIGTAIL ROPE STAKES
NTS



12 L6.0 ASPHALT PAVEMENT REPAIR
NTS

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1509 TARAH McMAHAN KIRBY
3.1.24

SEAL
For Civil ONLY
NORTH CAROLINA PROFESSIONAL ENGINEER TODD ALAN TRIPP
3/1/24

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

TEG PROJECT NO. 20230059
DATE: 12.21.23
PROJECT TITLE: Greenville NORTH CAROLINA
WILDWOOD PARK PARTF IMPROVEMENTS
DRAWING TITLE: SITE DETAILS
DRAWING NO. L6.0

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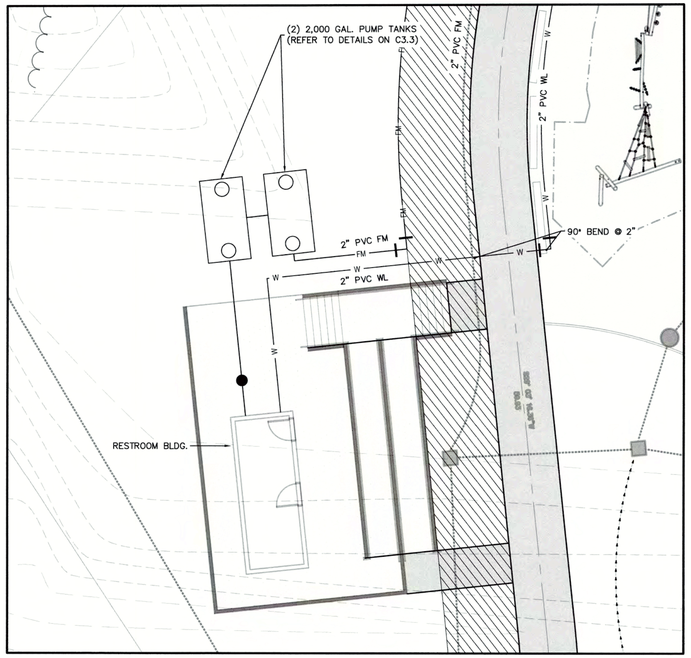
UTILITY LEGEND:

CO	CLEAN OUT
— x —	CONSTRUCTION FENCE
	CONSTRUCTION LIMITS
	DITCH / FLOW LINE
— 15 —	EXISTING CONTOUR
— FM —	FORCE MAIN
	FRENCH DRAIN
	GATE VALVE
— 15 —	PROPOSED CONTOUR
	ADDITIONAL REPAIR AREA (SEPTIC)
	STORM PIPE
— E —	UNDERGROUND ELECTRIC LINE
— W —	WATER LINE (WL)



N

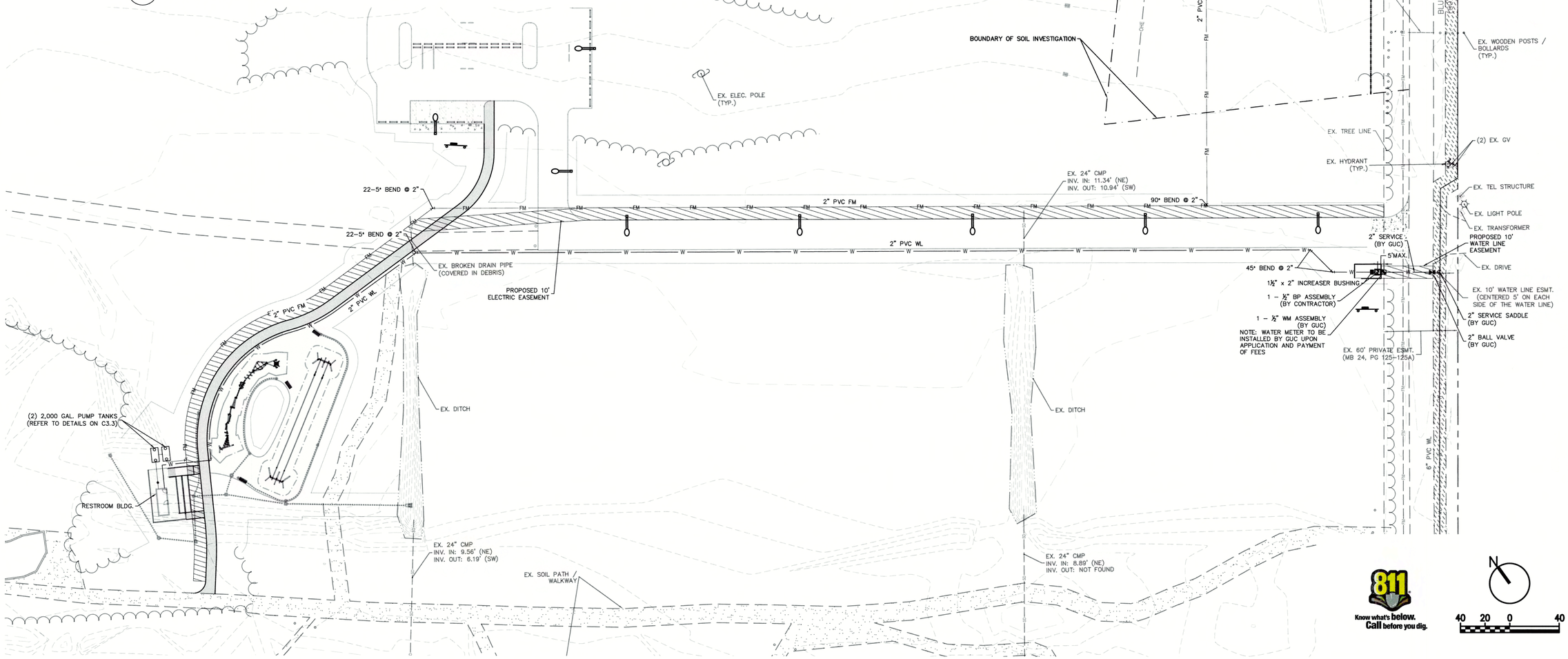
RESTROOM BUILDING (UTILITY DETAIL)
SCALE: 1" = 10'

UTILITY NOTES:

1. LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND COORDINATE CONNECTION WITH PROPER AUTHORITIES. CALL NC ONE-CALL CENTER, INC. AT 811 48 HOURS BEFORE ANY EXCAVATION IS BEGUN.
2. AS OF JAN. 1, 1986, ANYONE DIGGING WITH MECHANIZED EQUIPMENT IN HIGHWAY RIGHT-OF-WAY, PRIVATE UTILITY EASEMENTS, OR PUBLIC SPACES WILL BE REQUIRED BY NORTH CAROLINA LAW TO GIVE NOTICE OF THE PROPOSED EXCAVATION TO ALL EXISTING AREA UTILITIES AT LEAST 3 WORKING DAYS BEFORE STARTING TO DIG. THE UTILITY OWNER IS TO LOCATE ITS FACILITIES IN THE AREA OF THE PROPOSED EXCAVATION. UTILITY MEMBERS OF NC ONECALL CAN BE CONTACTED AT 811.
3. CONTRACTOR SHALL NOTIFY UTILITIES ENGINEER 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION. CONTRACTOR TO COORDINATE ALL EXISTING UTILITY TIE INS WITH THE UTILITY ENGINEER.
4. CONTRACTOR SHALL MAINTAIN COMPREHENSIVE (DEPTH AND HORIZONTAL LOCATIONS) FIELD "AS-BUILTS" FOR ALL INSTALLATIONS AND SUBMIT TO THE ENGINEER.
5. ALL PERMITS AND FEES REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
6. SEE SHEET L2.1 FOR INFORMATION ON GRADING.

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.



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SEAL

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NORTH CAROLINA PROFESSIONAL ENGINEER TODD ALAN TRIPP 017480
3/1/24

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

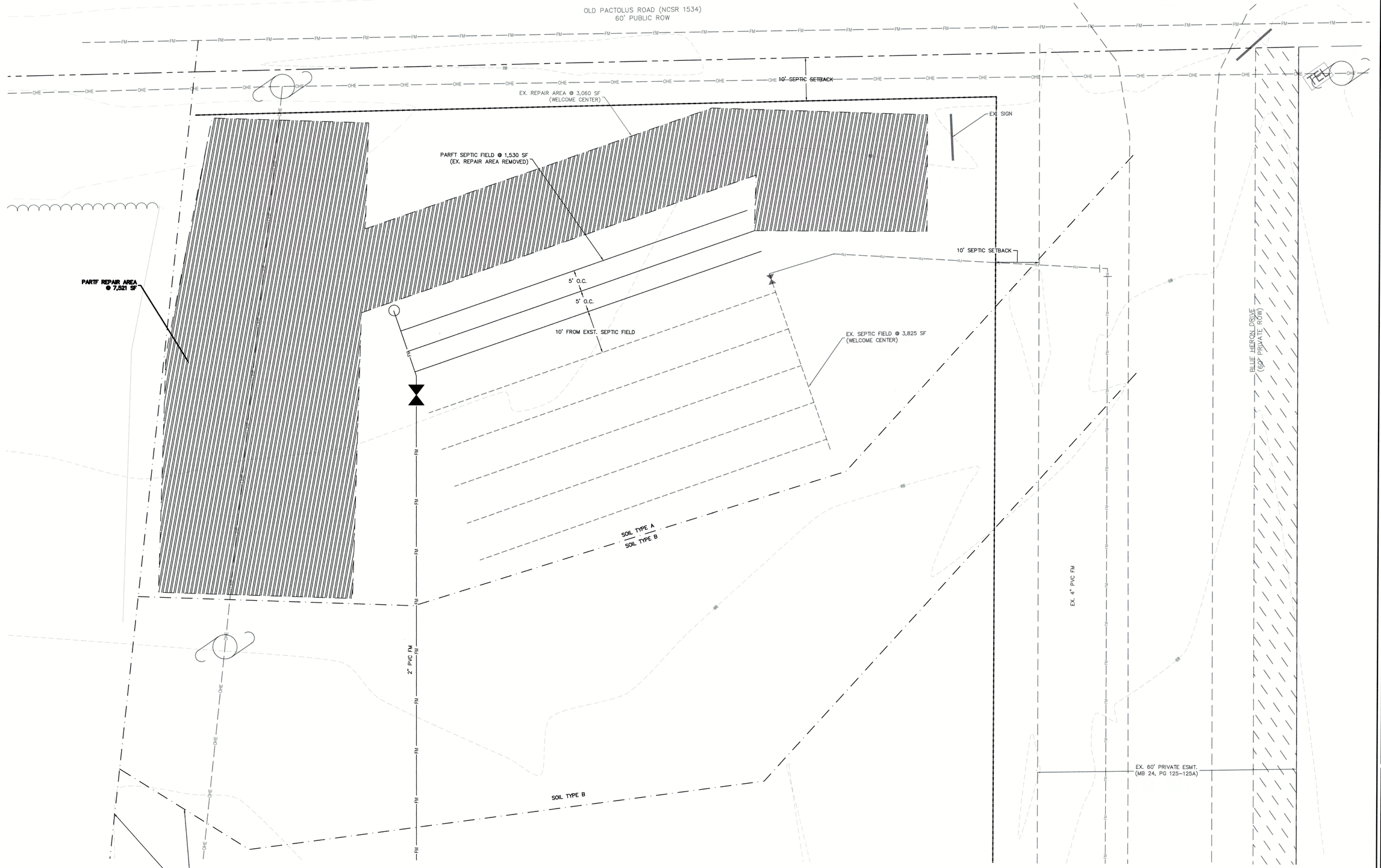
TEG PROJECT NO.
20230059

DATE:
12.21.23

PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
COMPOSITE UTILITY PLAN

DRAWING NO.
C3.0



SEPTIC LEGEND:

- ADDITIONAL REPAIR AREA (SEPTIC)
- SOIL TYPES

SEPTIC CALCULATIONS

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

811 Know what's below. Call before you dig.

N

10 5 0 10

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SEAL

NORTH CAROLINA PROFESSIONAL 017480 ENGINEER TODD ALAN TRIPP
3/1/24

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

TEG PROJECT NO. 20230059

DATE: 12.21.23

PROJECT TITLE

Greenville NORTH CAROLINA

WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

SEPTIC FIELD PLAN (FORCE MAIN)

DRAWING NO.

C3.1

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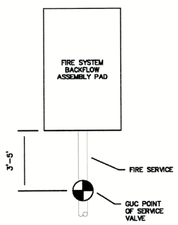
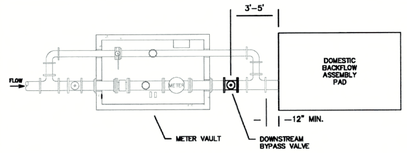
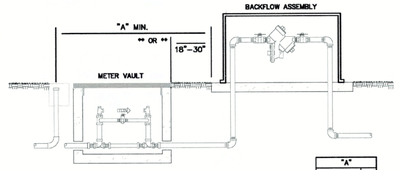


FIRE SERVICE



4" OR GREATER
DOMESTIC SERVICE



"A"	
1.5" METER	5.5'
2.0" METER	6.5'

1-1/2 & 2"
DOMESTIC SERVICE

NOTES

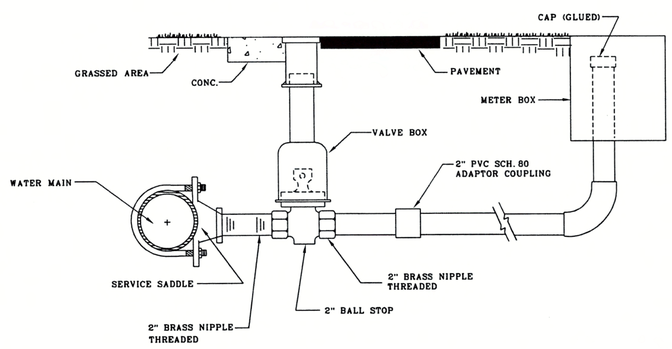
1. SEE PLAN FOR ANY SPECIAL LOCATION PROVISIONS ASSOCIATED WITH ELECTRIC EASEMENTS OR OTHER FEATURES OR OBSTACLES.

BACKFLOW ASSEMBLY PLACEMENT		
SHEET 1 OF 1	DWG. NO. W-20	DWG JB
	DATE 6/23/2021	APP CHC

GREENVILLE UTILITIES
GREENVILLE, N.C.
WATER RESOURCES ENGINEERING
GREENVILLE, N.C.

NO.	DATE	DESCRIPTION
1	8/2/21	ADDED NOTES
2	8/2/21	"A" MIN.

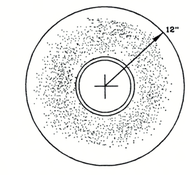
VALVE BOX TO BE
SUPPORTED BY TWO BRICKS



TYPICAL 1-1/2" AND 2" WATER SERVICE CONNECTION		
SHEET 1 OF 1	DWG. NO. W-3	DWG N. WOOTEN
	DATE 3-12-99	APP H. COREY

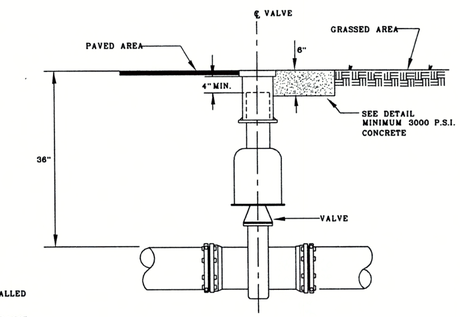
GREENVILLE UTILITIES
GREENVILLE, N.C.
WATER RESOURCES ENGINEERING
GREENVILLE, N.C.

NO.	DATE	DESCRIPTION



DETAIL

PRECAST CONCRETE COLLAR

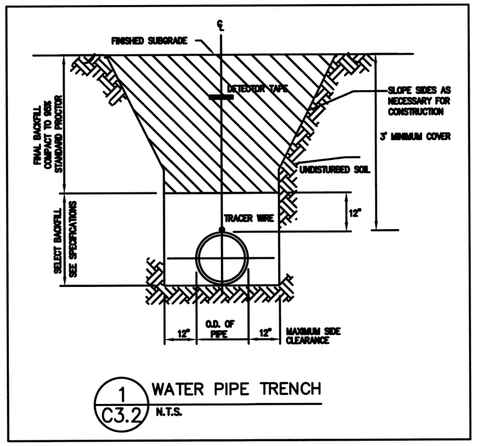


NOTE:
VALVE BOX SHALL NOT BE INSTALLED IN CURB AND GUTTER.
VALVE BOX SHALL BE IN ACCORDANCE WITH MANUAL.
VALVE BOX SHALL BE CENTERED AND PLUMBED OVER VALVE.

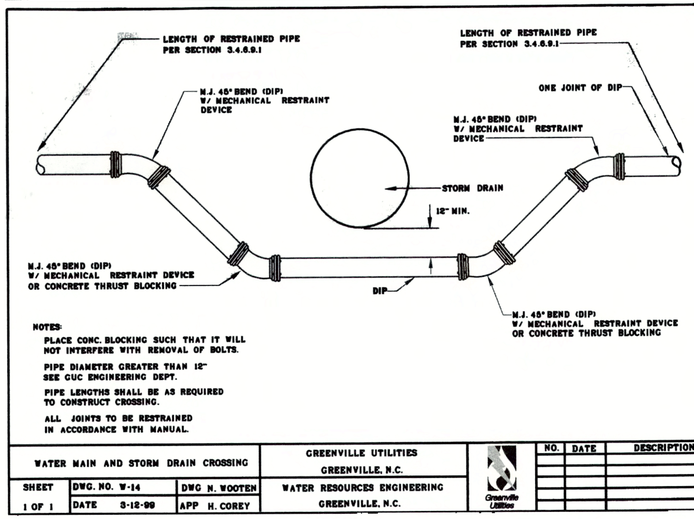
VALVE BOX DETAIL FOR VALVES SMALLER THAN 12"		
SHEET 1 OF 1	DWG. NO. W-7	DWG N. WOOTEN
	DATE 3-12-99	APP H. COREY

GREENVILLE UTILITIES
GREENVILLE, N.C.
WATER RESOURCES ENGINEERING
GREENVILLE, N.C.

NO.	DATE	DESCRIPTION



1 / C3.2 WATER PIPE TRENCH
N.T.S.

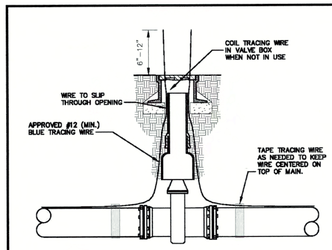


NOTES:
PLACE CONC. BLOCKING SUCH THAT IT WILL NOT INTERFERE WITH REMOVAL OF BOLTS.
PIPE DIAMETER GREATER THAN 12" SEE CUC ENGINEERING DEPT.
PIPE LENGTHS SHALL BE AS REQUIRED TO CONSTRUCT CROSSING.
ALL JOINTS TO BE RESTRAINED IN ACCORDANCE WITH MANUAL.

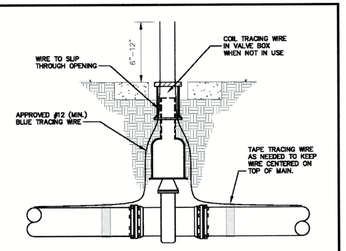
WATER MAIN AND STORM DRAIN CROSSING		
SHEET 1 OF 1	DWG. NO. W-14	DWG N. WOOTEN
	DATE 3-12-99	APP H. COREY

GREENVILLE UTILITIES
GREENVILLE, N.C.
WATER RESOURCES ENGINEERING
GREENVILLE, N.C.

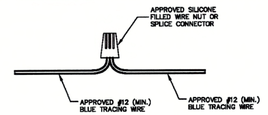
NO.	DATE	DESCRIPTION



TRACING WIRE FOR VALVE BOXES – 12" & LARGER MAIN



TRACING WIRE FOR VALVE BOXES – SMALLER THAN 12" MAIN



SPLICING OF TRACING WIRES

TRACING WIRE INSTALLATION		
SHEET 1 OF 1	DWG. NO. W-21	DWG JB
	DATE 8/3/2021	APP CHC

GREENVILLE UTILITIES
GREENVILLE, N.C.
WATER RESOURCES ENGINEERING
GREENVILLE, N.C.

NO.	DATE	DESCRIPTION

INSTALLATION NOTES:

1. POUR THRUST COLLAR. (LET SET FOR 72 HOURS MINIMUM)
2. CLOSE EXISTING VALVE AT OLD PACTOLUS ROAD.
3. INSTALL NEW VALVE. (GRIPPED TO EXISTING PIPE)
4. OPEN VALVE AT ROAD AND FLUSH WELL.
5. LAY NEW MAIN. (WITH NEW VALVE CLOSED)

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SEAL

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NORTH CAROLINA PROFESSIONAL SEAL 017480 ENGINEER CODY ALAN TRIPP
3/1/24

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

TEG PROJECT NO. 20230059
DATE: 12.21.23
PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS
DRAWING TITLE
UTILITY DETAILS
(WATER)
DRAWING NO.
C3.2

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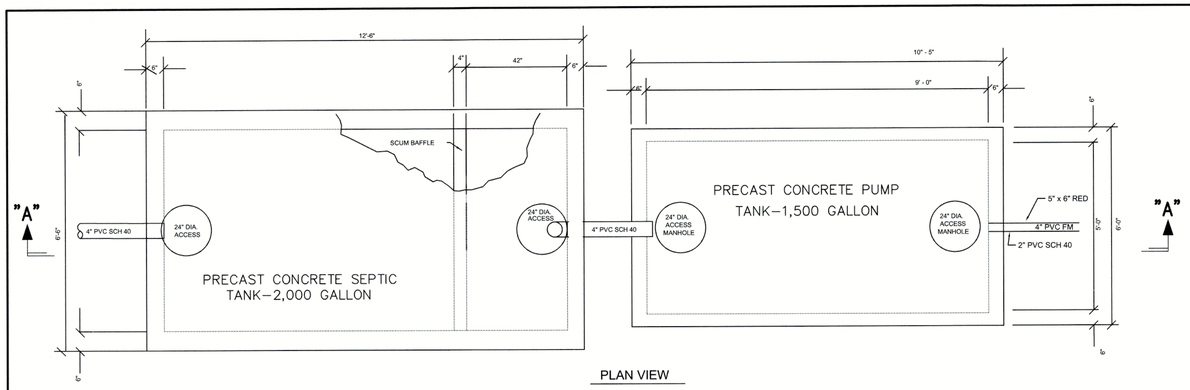
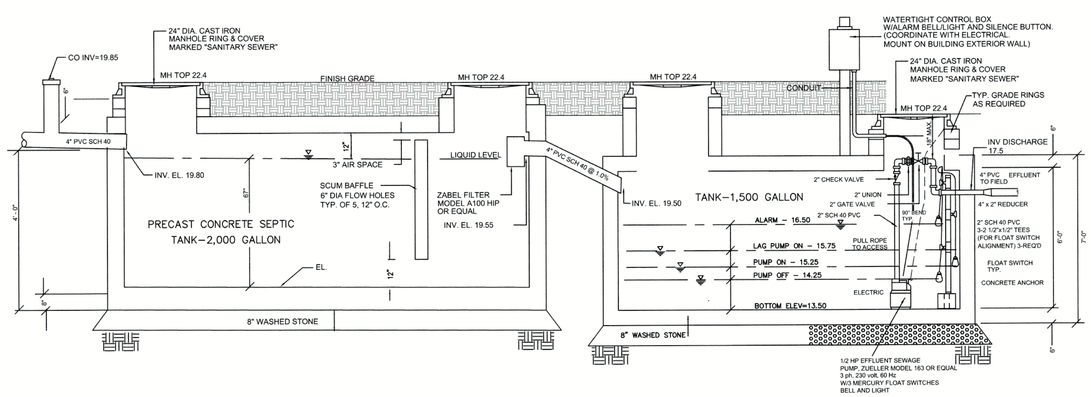


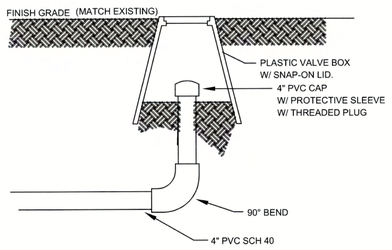
PLAN VIEW

1 C3.3 2,000 GALLON SEPTIC TANK DETAIL
N.T.S.

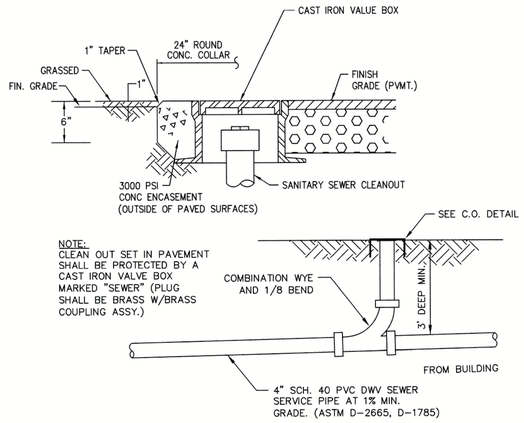
2 C3.3 1,500 GALLON PUMP TANK DETAIL
N.T.S.



SECTION A-A

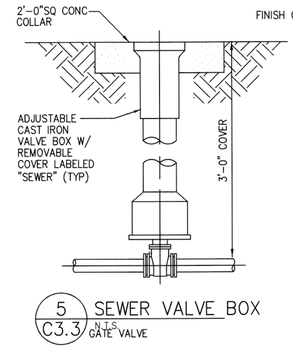


3 C3.3 TURNED UP END–DETAIL
N.T.S.

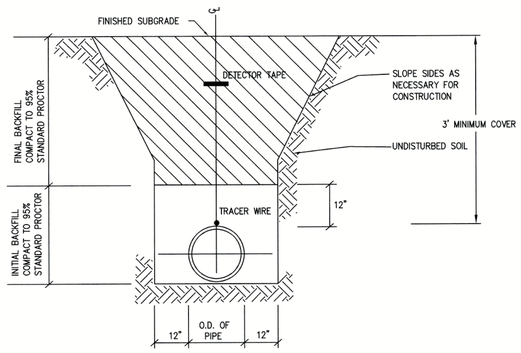


NOTE:
SEWER SERVICE TRENCH SHALL BE COMPACTED TO 95% STANDARD PROCTOR.

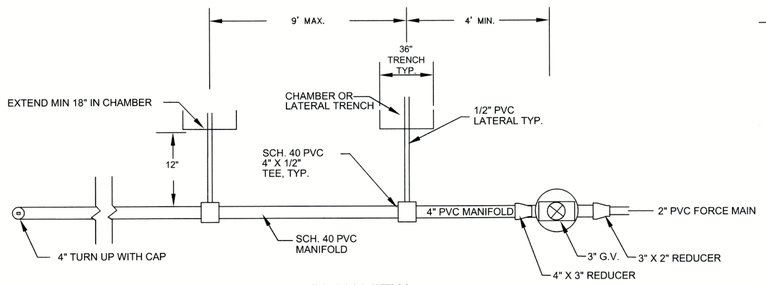
4 C3.3 SEWER CLEANOUT DETAIL
N.T.S.



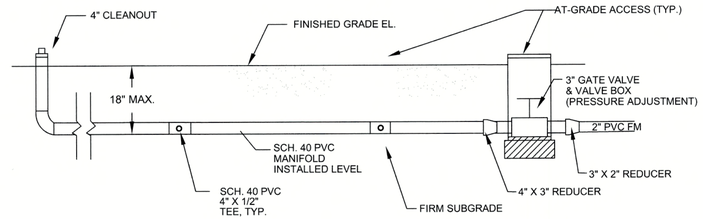
5 C3.3 SEWER VALVE BOX
N.T.S.
GATE VALVE



6 C3.3 SEWER TRENCH DETAIL
N.T.S.



PLAN VIEW



SECTION VIEW

7 C3.3 MANIFOLD DETAIL
N.T.S.

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NORTH CAROLINA PROFESSIONAL SEAL 017480 ENGINEER TODD ALAN TRIPP
3/1/24

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

TEG PROJECT NO. 20230059
DATE: 12.21.23
PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK PARTF IMPROVEMENTS
DRAWING TITLE
UTILITY DETAILS (FORCE MAIN)
DRAWING NO.
C3.3

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ELECTRICAL GENERAL NOTES

1. EC SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT AND NATURE OF THE WORK REQUIRED. ANY DIFFICULTIES IN COMPLYING WITH THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER PRIOR TO SUBMITTING A BID.
2. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT, AND PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF COMPLETE ELECTRICAL WORK WITHIN THE INTENT OF, AND AS INDICATED ON, THE DRAWINGS AND AS HEREIN SPECIFIED.
3. CONTRACTOR'S QUALIFICATIONS: IT IS ASSUMED THE CONTRACTOR HAS HAD SUFFICIENT GENERAL KNOWLEDGE AND EXPERIENCE TO ANTICIPATE THE NEEDS OF CONSTRUCTION OF THIS NATURE. THE CONTRACTOR SHALL PROVIDE ALL ITEMS REQUIRED TO COMPLETE THE CONSTRUCTION IN ACCORDANCE WITH REASONABLE INTERPRETATION OF THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
4. THE DESIGN CONTAINED IN THE CONTRACT DOCUMENTS IS BASED ON EQUIPMENT BY SPECIFIC MANUFACTURERS. SUBSTITUTION REQUESTS BY THE EC MAY ONLY BE MADE PRIOR TO SUBMITTING A BID AND WILL BE REVIEWED AT THE DISCRETION OF THE ENGINEER. WHEN ANY EQUIPMENT IS PROVIDED BY MANUFACTURERS OTHER THAN THOSE SPECIFIED, THE EC SHALL BE RESPONSIBLE FOR VERIFYING THAT SUCH EQUIPMENT WILL MEET THE DESIGN INTENT (DIMENSIONS, CAPACITIES, ELECTRICAL REQUIREMENTS, ETC.). ANY ADDITIONAL COSTS ASSOCIATED WITH PROVIDING SUCH EQUIPMENT, INCLUDING BUT NOT LIMITED TO INCREASING THE CAPACITY OF ELECTRICAL SERVICES (DISCONNECTS, BREAKERS, WIRING, CONDUIT, ETC.), INCREASING HOUSEKEEPING PAD SIZES, PROVIDING ADDITIONAL STRUCTURAL SUPPORT OR INSTALLATION OF EQUIPMENT IN DIFFERENT LOCATIONS THAN INDICATED ON THE DRAWINGS SHALL BE INCLUDED IN THE EC'S BID.
5. EC SHALL OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TESTS, ETC. AS REQUIRED FOR PROPER EXECUTION AND COMPLETION OF THE WORK.
6. EC SHALL COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES. NO ALLOWANCES WILL BE MADE ON THE EC'S BEHALF FOR FAILURE TO COORDINATE WITH OTHER TRADES. ANY COORDINATION CONFLICTS WHICH ARISE SHALL BE IMMEDIATELY REPORTED TO THE GC AND OWNER'S REPRESENTATIVE.
7. EC SHALL BE RESPONSIBLE FOR ALL SAW-CUTS, CORE-DRILLS, AND PENETRATIONS. EC SHALL PATCH FLOORS, WALLS, PARTITIONS, CEILINGS, ROOFS, AND OTHER SURFACES AS REQUIRED TO RESTORE TO INITIAL CONDITIONS FOR CONDUIT OR OTHER INSTALLATIONS.
8. EC SHALL SEAL ALL PENETRATIONS THROUGH NEW AND EXISTING WALLS, FLOORS, ROOFS, CHASES, ETC. DUE TO ANY DEMOLITION OR NEW WORK IN ORDER TO MAINTAIN THE INTEGRITY OF THE SYSTEM (SMOKE RATED, SMOKE PARTITIONS, FIRE RATED, ETC.).
9. EC SHALL PROVIDE APPROPRIATE SEALING WITH APPROVED MATERIAL WHERE RACEWAY PASSES FROM INTERIOR TO EXTERIOR OF A BUILDING.
10. EC SHALL PROVIDE AND INSTALL ALL PHENOLIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT & DEVICES. LABEL SHALL INDICATE PANEL AND CIRCUIT NUMBER SUPPLYING POWER TO THE DEVICE. EC SHALL PROVIDE REQUIRED SIGNS FOR PANELS, SWITCHGEAR, STARTERS, VFDS, AND ETC. NAMEPLATES TO BE MECHANICALLY SECURED WITH NON-FERROUS FASTENERS.
11. EC SHALL PROVIDE AND INSTALL ALL WARNING AND CAUTION SIGNS AS REQUIRED BY NEC & NFPA 70E FOR SWITCHBOARDS, PANELBOARDS, ETC., INCLUDING BUT NOT LIMITED TO, "WARNING – ARC FLASH HAZARD – APPROPRIATE PPE REQUIRED".
12. ALL AFF DIMENSIONS ARE REFERENCED TO CENTER OF EQUIPMENT/DEVICE UNO.
13. EACH RECEPTACLE CIRCUIT AND LIGHTING CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. ENSURE COMPLIANCE WITH NEC REGARDING ALLOWABLE AMPACITIES AND DERATING (ADJUSTMENT) FACTORS ON INSTALLATION OF CONDUIT AND CONDUCTORS.
14. UPON MODIFICATION OR CONNECTION TO EXISTING SYSTEMS, POWER AND/OR SECONDARY SYSTEMS SHALL NOT BE INTERRUPTED WITHOUT PRIOR CONSENT OF OWNER AND A DEFINITE UNDERSTANDING OF THE DURATION OF THE OUTAGE.
15. ALL CONDUCTORS SHALL BE INSULATED COPPER UNLESS NOTED OTHERWISE. CONDUCTORS #10 AND SMALLER SHALL BE SOLID; CONDUCTOR #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS SHALL BE THWN-2 OR XHHW-2, 90° C RATED.
16. ALL 240V/120V POWER WIRING INSULATION SHALL BE COLOR CODED (NO EXCEPTIONS). PHASE A-BLACK; PHASE B-RED; NEUTRAL-WHITE; TRAVELERS-PURPLE; AND GROUNDING CONDUCTORS-GREEN. COLOR CODED TAPE NOT ALLOWED.
17. WIRING DEVICES SHALL BE 20 AMP MINIMUM AND SHALL BE OF THE GROUNDING TYPE, WITH HEX-HEAD GREEN GROUNDING SCREW, TO BE CONNECTED TO THE GREEN GROUND CONDUCTOR. SELF-GROUNDING TYPE IS NOT ACCEPTABLE. RECEPTACLES SHALL BE GENERAL USE MEETING NEMA WD 1, NEMA WD 6, DSCC W-C-596G, AND UL-498 AND SHALL BE APPROVED THIRD-PARTY LISTED.
18. INSIDE CONDUITS SHALL BE EMT, IMC, OR RMC. CONNECTIONS TO VIBRATING EQUIPMENT SHALL BE LFMC.
19. OUTSIDE ABOVE GROUND CONDUITS SHALL BE RMC. CONNECTIONS TO VIBRATING EQUIPMENT SHALL BE LFMC.
20. CONDUITS MOUNTED 8'-0" AFF OR LESS. WHERE SUBJECT TO PHYSICAL DAMAGE, THE PORTION OF CONDUIT MOUNTED BELOW 8'-0" AFF SHALL BE RMC.
21. UNDERGROUND CONDUITS SHALL BE RIGID GALVANIZED STEEL (RMC) OR PVC SCHEDULE 40 ONLY. ALL BENDS SHALL BE RIGID GALVANIZED STEEL. ALL CONCRETE SLAB PENETRATIONS SHALL BE RIGID GALVANIZED STEEL AND CONDUIT SHALL EXTEND AT A MINIMUM OF 1'-0" PAST TOP OF CONCERT SLAB. UNDERGROUND STEEL CONDUIT SHALL BE WRAPPED WITH BITUMEN TAPE TO 0'-6" ABOVE FINISHED GRADE.
22. UNDERGROUND PVC CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 36" BELOW FINISHED GRADE WITH DETECTABLE BURIAL TAPE. CHANGE FROM PVC TO RIGID GALVANIZED STEEL CONDUIT PRIOR TO TURNING UP AT ANY LOCATION. ALL EXCAVATION (DIGGING, TRENCHING, BACK FILLING, ETC.) SHALL BE PROVIDED BY CONTRACTOR. BOND RIGID GALVANIZED STEEL CONDUIT TO GROUND.
23. ALL NON-METALLIC CONDUIT INSTALLED UNDERGROUND SHALL HAVE A TRACER WIRE INSTALLED ON THE TOP SIDE OF EACH CONDUIT. THE TRACER WIRE SHALL BE #12 COPPER-CLAD STEEL REINFORCED SINGLE CONDUCTOR WIRE INSULATED WITH ORANGE COLORED HDPE INSULATION (30 MILS) EQUAL TO COPPERHEAD INDUSTRIES BRAND. THE TRACER WIRE SHALL BE CONTINUOUS ALONG THE ENTIRE LENGTH OF THE CONDUIT AND SHALL TERMINATE WITH WATERPROOF CONNECTORS. PROVIDE 24" OF EXCESS TRACER WIRE IN EACH PULL BOX OR CONDUIT END.
24. ELECTRICAL CONTRACTOR SHALL LOCATE ELECTRICAL CONDUITS OUTSIDE THE DRIP LINE OF EXISTING TREES TO THE GREATEST EXTEND POSSIBLE.
25. EMT CONDUIT COUPLINGS, CONNECTORS, AND FITTINGS SHALL BE STEEL HEXAGONAL COMPRESSION TYPE ONLY. SET SCREW COUPLINGS, CONNECTORS, AND FITTINGS SHALL NOT BE ALLOWED.
26. WHERE INSTALLING CONDUITS, BOXES, EQUIPMENT, ETC., IN WET OR DAMP LOCATIONS, INSTALL CONDUITS, BOXES, EQUIPMENT, ETC. AT A MINIMUM OF 1/4-INCH FROM THE MOUNTING SURFACE WITH CLAMP BACKS OR STRUT.
27. EXISTING CONDITIONS THAT ARE NOT INDICATED TO BE DEMOLISHED, BUT ARE DAMAGED AS A RESULT OF THE WORK SHALL BE REPAIRED OR REPLACED BY THE EC TO MATCH EXISTING ADJACENT CONDITIONS.
28. THE EC SHALL KEEP THE CONSTRUCTION AREA AND SURROUNDING AREAS FREE FROM THE ACCUMULATION OF WASTE MATERIALS AND DEBRIS CAUSED BY THE WORK.
29. EC SHALL VERIFY EXISTING CONDITIONS PRIOR TO EXECUTION OF THE WORK. SOME OR ALL INFORMATION ABOUT EXISTING CONDITIONS SHOWN ON THE DRAWINGS MAY BE BASED SOLELY ON EXISTING RECORD DRAWINGS AND MAY OR MAY NOT HAVE BEEN VERIFIED BY THE ARCHITECT OR ENGINEER.
30. ALL MATERIALS SHALL BE NEW AND SHALL BEAR THE 3RD PARTY LISTED APPROVAL FOR THEIR INSTALLED APPLICATION. THIRD PARTY AGENCIES SHALL BE AMONGST THOSE ACCREDITED BY THE NCBCC (NORTH CAROLINA BUILDING CODE COUNCIL) TO LABEL ELECTRICAL & MECHANICAL EQUIPMENT.
31. FOR ALL ELECTRICAL CIRCUITS, EC SHALL IDENTIFY THE CIRCUIT NUMBER IN THE DESIGNATED PANEL. SHALL MARK THE CIRCUIT NUMBER ON THE DRAWINGS, AND SHALL TURN OVER THE MARKED DRAWINGS TO OWNER. EC SHALL UPDATE THE PANEL SCHEDULES UPON COMPLETION OF CONSTRUCTION. IN THE EVENT THE PANEL(S) DO NOT HAVE ADEQUATE SPARE CIRCUITS OR CAPACITY, EC SHALL NOTIFY OWNER FOR RESOLUTION OF ISSUE.
32. NEW AND EXISTING PANEL SCHEDULES SHALL BE UPDATED (TYPED-ONLY) UPON COMPLETION OF THE WORK TO ACCURATELY INDICATE INSTALLED CONDITIONS.
33. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL COORDINATE LOCATING EXISTING UNDERGROUND UTILITIES WITH OWNER, OWNER'S ON-SITE ENGINEER, AND NC ONE CALL (811) PRIOR TO ANY WORK.
34. EC SHALL BE LICENSED IN NC, AND SHALL INSTALL ALL ELECTRICAL EQUIPMENT, WIRING, DEVICES, ETC. AS PER NEC, AND OTHER APPLICABLE STATE AND LOCAL CODES.
35. ALL EQUIPMENT ENCLOSURE PENETRATIONS SHALL BE ON THE BOTTOM OF THE ENCLOSURE. PENETRATIONS ARE NOT ALLOWED ON THE TOP OR SIDE OF THE ENCLOSURE.
36. CONTRACTOR SHALL PROVIDE CIRCUIT IDENTIFICATION LABELS AT EACH POLE MOUNTED LIGHTING FIXTURE POLE LOCATION & AT EACH GROUND MOUNTED PULL BOX LOCATION. LABELS SHALL BE INSTALLED ON THE OUTSIDE OF EACH LIGHT FIXTURE POLE, INSIDE EACH LIGHT FIXTURE POLE BASE AT THE HAND HOLE, & INSIDE EACH PULL BOX. WHERE MORE THAN ONE SET OF CIRCUITS ARE SHARED IN A CONDUIT/PULLBOX, SEPARATE EACH CIRCUIT SET & PROVIDE A SEPARATE LABELS FOR EACH CIRCUIT SET. LABEL & ATTACHMENT SHALL BE SUITABLE FOR THE ENVIRONMENT INSTALLED. LABEL INFORMATION SHALL INCLUDE 1) BUILDING FED FROM, 2) PANEL ID, 3) CIRCUIT NUMBER(S), & 4) LOAD DESCRIPTION. FOR EXAMPLE:
    - LINE 1: REST ROOM BUILDING
    - LINE 2: PANEL MDPRR
    - LINE 3: CIRCUIT TBD
    - LINE 4: PARKING LOT- RESTROOM PATHWAY

LEGEND

- WP / IU — GROUND FAULT INTERRUPTED DUPLEX RECEPTACLE, 20 AMP, 120VAC. WHERE SHOWN, "WP IU" INDICATES WEATHER PROOF IN USE COVER.
- SINGLE POINT ELECTRICAL CONNECTION TO PACKAGED ELECTRICAL EQUIPMENT.
- J — JUNCTION BOX/DEVICE BOX WITH COVER. LOCATE AS REQUIRED FOR EQUIPMENT SERVED.
- XX — 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.
- XXXX — ELECTRICAL PANEL, SURFACE MOUNTED, TOP OF PANEL 72" AFF UNO. "XXXX" INDICATES PANEL TAG.
- XXXX — ELECTRICAL PANEL, FLUSH MOUNTED, TOP OF PANEL 72" AFF UNO. "XXXX" INDICATES PANEL TAG.
- # / E#.# — 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.
- XXXX-XX — HOMERUN TO PANELBOARD. XXXX-XX INDICATES PANELBOARD & CIRCUIT NUMBER (1 #10 LINE, 1 #10 NEUTRAL, 1 #10 GND, 1" C, UNO.)
- XXXX-XX,XX — 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
MDP1

	VA LOAD
ELECTRICAL:	
INTERIOR LIGHTS	0
EXTERIOR LIGHTS	0
EMERGENCY LIGHTS	0
RECEPTACLES	180
	180
PLUMBING:	
NONE	0
	0
MECHANICAL:	
NONE	0
	0
EQUIPMENT:	
HOT BOX	1,200
	1,200
MISCELLANEOUS:	
NONE	0
	0
LARGEST MOTOR:	
25% OF 0 VA	0
TOTAL – VA	**1,380**

1,380 VA / 240VAC = 5.75 AMPS
5.75 AMPS * 1.25% = 7.2 AMPS

ELECTRICAL LOAD SUMMARY
MDPPL

	VA LOAD
ELECTRICAL:	
INTERIOR LIGHTS	0
EXTERIOR LIGHTS	0
EMERGENCY LIGHTS	0
RECEPTACLES	180
	180
PLUMBING:	
NONE	0
	0
MECHANICAL:	
NONE	0
	0
EQUIPMENT:	
NONE	0
	0
	0
MISCELLANEOUS:	
NONE	0
	0
LARGEST MOTOR:	
25% OF 0 VA	0
TOTAL – VA	**180**

180 VA / 240VAC = 0.75 AMPS
0.75 AMPS * 1.25% = 1 AMPS

ELECTRICAL LOAD SUMMARY
MDPRR

	VA LOAD
ELECTRICAL:	
INTERIOR LIGHTS	0
EXTERIOR LIGHTS	300
EMERGENCY LIGHTS	0
RECEPTACLES	0
	0
PLUMBING:	
NONE	0
	0
MECHANICAL:	
NONE	0
	0
EQUIPMENT:	
SEWER LIFT STATION, TWO 2HP MOTORS	5,760
	5,760
MISCELLANEOUS:	
NONE	0
	0
LARGEST MOTOR:	
25% OF 0 VA	0
TOTAL – VA	**0**

xxxxx VA / 240VAC = XX AMPS
XX AMPS * 1.25% = XX AMPS

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

ABBREVIATIONS

A	AMPS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BKR	BREAKER
BOC	BOTTOM OF CONDUIT
C	CONDUIT
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
ETR	EXISTING TO REMAIN
EX	EXISTING
FMC	FLEXIBLE METAL CONDUIT
FT	FEET
GC	GENERAL CONTRACTOR
GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
IN	INCHES
IU	IN USE
ISO GND	ISOLATED GROUND
LFMC	LIQUID FLEXIBLE METAL CONDUIT
LTS	LIGHTS
N	NEUTRAL
NTS	NOT TO SCALE
OLC#	OUTSIDE LIGHTING CONTACTOR, # INDICATES NUMBER
PH	PHASE
RL	RELOCATED
RMC	RIGID METAL CONDUIT
TC#	TIME CLOCK, # INDICATES NUMBER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VA	VOLT AMPS
VAC	VOLTS AC
WP	WEATHER PROOF
XFMR	TRANSFORMER

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

LIGHTING FIXTURE SCHEDULE

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.

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Surveying ▪ Technology
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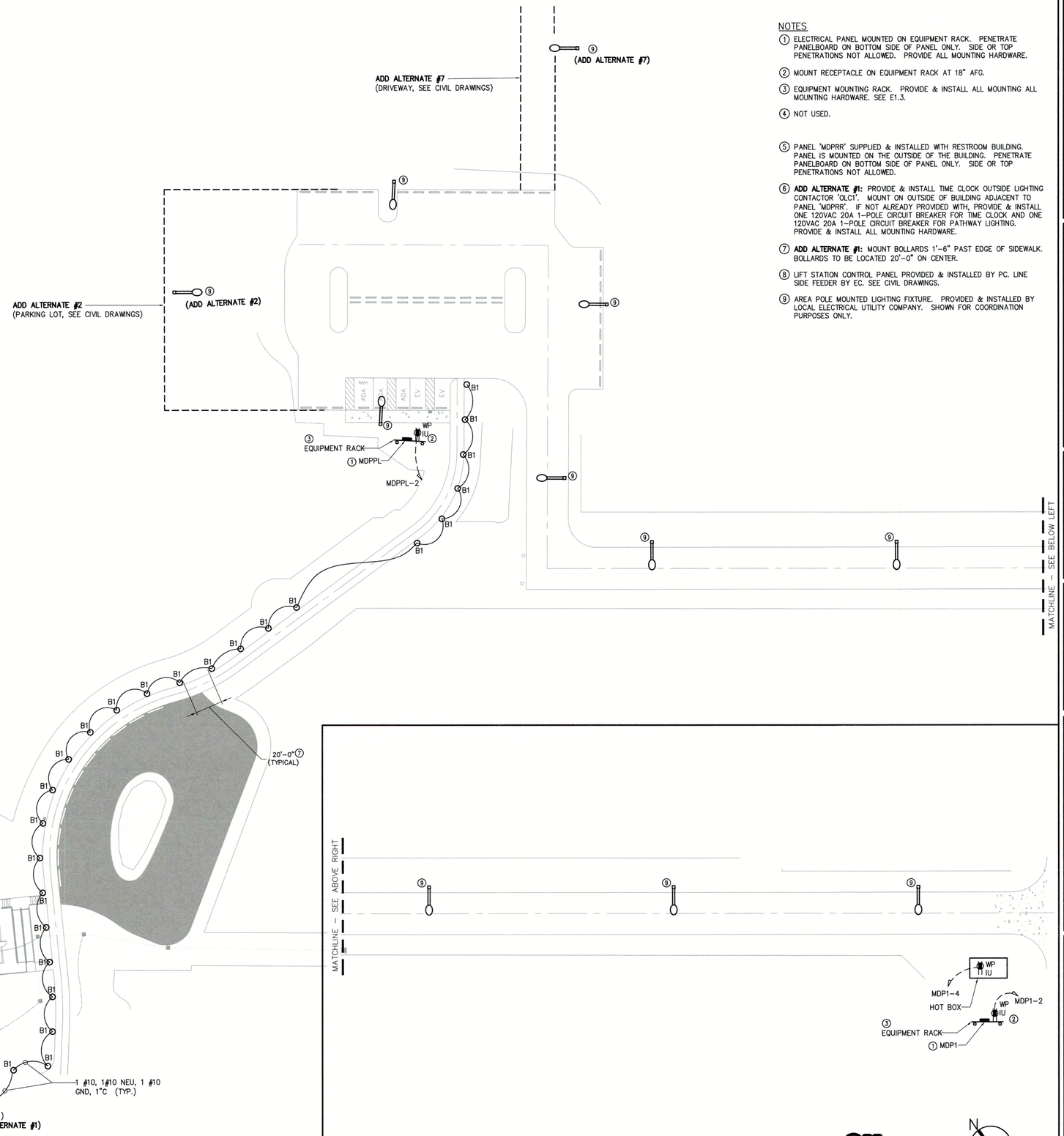
  NC Architectural License No. 50213
  NC Landscape Architectural License No. C-427

SEAL
NORTH CAROLINA REGISTERED
SEAL 041433
ENGINEER
DAVID L. MEEKS
3-1-2024

REV	DATE	DESCRIPTION	BY	CHK
A	8-31-23	95% CONSTRUCTION DOCUMENTS	DLM	
B	10-05-23	REVISED 95% CDs	DLM	
0	03-01-24	ISSUE FOR CONSTRUCTION	DLM	

TEG 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



NOTES

1. ELECTRICAL PANEL MOUNTED ON EQUIPMENT RACK. PENETRATE PANELBOARD ON BOTTOM SIDE OF PANEL ONLY. SIDE OR TOP PENETRATIONS NOT ALLOWED. PROVIDE ALL MOUNTING HARDWARE.
2. MOUNT RECEPTACLE ON EQUIPMENT RACK AT 18" AFG.
3. EQUIPMENT MOUNTING RACK. PROVIDE & INSTALL ALL MOUNTING ALL MOUNTING HARDWARE. SEE E1.3.
4. NOT USED.
5. PANEL 'MDPRR' SUPPLIED & INSTALLED WITH RESTROOM BUILDING. PANEL IS MOUNTED ON THE OUTSIDE OF THE BUILDING. PENETRATE PANELBOARD ON BOTTOM SIDE OF PANEL ONLY. SIDE OR TOP PENETRATIONS NOT ALLOWED.
6. **ADD ALTERNATE #1:** PROVIDE & INSTALL TIME CLOCK OUTSIDE LIGHTING CONTACTOR 'OLC1'. MOUNT ON OUTSIDE OF BUILDING ADJACENT TO PANEL 'MDPRR'. IF NOT ALREADY PROVIDED WITH, PROVIDE & INSTALL ONE 120VAC 20A 1-POLE CIRCUIT BREAKER FOR TIME CLOCK AND ONE 120VAC 20A 1-POLE CIRCUIT BREAKER FOR PATHWAY LIGHTING. PROVIDE & INSTALL ALL MOUNTING HARDWARE.
7. **ADD ALTERNATE #1:** MOUNT BOLLARDS 1'-6" PAST EDGE OF SIDEWALK. BOLLARDS TO BE LOCATED 20'-0" ON CENTER.
8. LIFT STATION CONTROL PANEL PROVIDED & INSTALLED BY PC. LINE SIDE FEEDER BY EC. SEE CIVIL DRAWINGS.
9. AREA POLE MOUNTED LIGHTING FIXTURE. PROVIDED & INSTALLED BY LOCAL ELECTRICAL UTILITY COMPANY. SHOWN FOR COORDINATION PURPOSES ONLY.

1 E1.1 ELECTRICAL SITE POWER & LIGHTING PLAN
1"=30'-0"

2 E1.1 ELECTRICAL SITE POWER & LIGHTING PLAN
1"=30'-0"

Know what's below. Call before you dig.

30 15 0 30

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SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 041433 ENGINEER DAVID L. MEEKS
3-1-2024

SEAL

REV	DATE	DESCRIPTION	BY	CHK
A	8-31-23	95% CONSTRUCTION DOCUMENTS		DLM
B	10-05-23	REVISED 95% CDs		DLM
0	03-01-24	ISSUE FOR CONSTRUCTION		DLM

TEG PROJECT NO. 20230059

DATE: 08.31.23

PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
ELECTRICAL
SITE POWER
& LIGHTING PLAN

DRAWING NO. E1.1

PANELBOARD MDP1 | VOLTAGE: ☒ 240/120V., 1 PHASE, 3 WIRE

MOUNTING: ☐ FLUSH ☒ SURFACE | MAIN: ☐ LUGS ONLY ☒ MAIN BREAKER | BUS: 200 A TRIP: 200 A | FRAME: ____ 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	PHASE LOAD (AMPS) 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

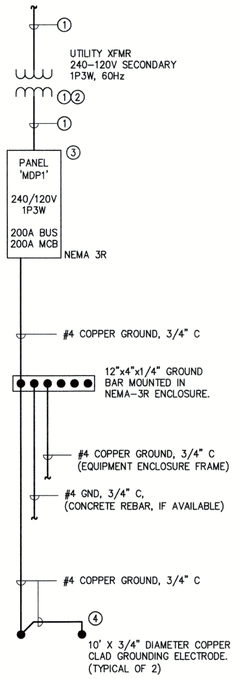
TOTAL L1	1.5
TOTAL L2	10.0

KEY: MULTIPOLE BREAKER (XX) | GFI BREAKER (G) | LOCKOFF ATTACH (L) | SWITCH DUTY (SW) | PADLOCK ATTACH (P) | HACR (H) | HID RATED (HD) | ARC FAULT (A)

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.

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 MDPPL, FINAL CONNECTIONS AT MDPPL 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 ELECTRICAL RISER DIAGRAM
NTS

PANELBOARD MDPPL | VOLTAGE: ☒ 240/120V., 1 PHASE, 3 WIRE

MOUNTING: ☐ FLUSH ☒ SURFACE | MAIN: ☐ LUGS ONLY ☒ MAIN BREAKER | BUS: 200 A TRIP: 200 A | FRAME: ____ 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	PHASE LOAD (AMPS) 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

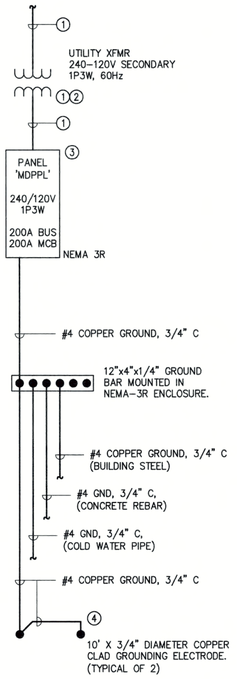
TOTAL L1	1.5
TOTAL L2	0.0

KEY: MULTIPOLE BREAKER (XX) | GFI BREAKER (G) | LOCKOFF ATTACH (L) | SWITCH DUTY (SW) | PADLOCK ATTACH (P) | HACR (H) | HID RATED (HD) | ARC FAULT (A)

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.

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 MDPPL, FINAL CONNECTIONS AT MDPPL 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.



2 E1.2 ELECTRICAL RISER DIAGRAM
NTS

PANEL PROVIDED WITH RESTROOM BUILDING

PANELBOARD MDPRR | VOLTAGE: ☒ 240/120V., 1 PHASE, 3 WIRE

MOUNTING: ☐ FLUSH ☒ SURFACE | MAIN: ☐ LUGS ONLY ☒ MAIN BREAKER | BUS: 200 A TRIP: 200 A | FRAME: ____ 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	PHASE LOAD (AMPS) 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	HD	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	RESERVED FOR TVSS	0.0		0.0
SPACE	0.0	29		30		0.0	0.0	

PANELBOARD LOCATION: RESTROOM | MANUFACTURER: ____ | MODEL/CAT. NO.: ____ | FEED: SEE ELECTRICAL ONE LINE DIAGRAM

TOTAL L1	25.0
TOTAL L2	26.5

KEY: MULTIPOLE BREAKER (XX) | GFI BREAKER (G) | LOCKOFF ATTACH (L) | SWITCH DUTY (SW) | PADLOCK ATTACH (P) | HACR (H) | HID RATED (HD) | ARC FAULT (A)

NOTES:
1. COMBINATION METER–PANEL SERVICE ENTRANCE DEVICE.
2. NEMA–3R
3. PROVIDE & INSTALL BREAKER IS NOT SUPPLIED WITH PANEL.

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 MDPPL, FINAL CONNECTIONS AT MDPPL BY UTILITY COMPANY.
2. EC SHALL COORDINATE UTILITY TRANSFORMER LOCATION WITH GC AND UTILITY COMPANY.
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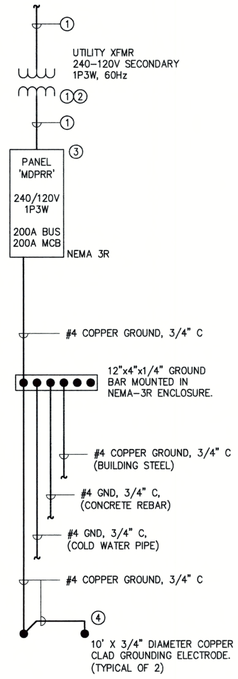
4. GROUNDING ELECTRODE SHALL BE 3/4" DIA. X 10' LONG COPPER CLAD STEEL. CONNECTION TO CONDUCTOR SHALL BE EXOTHERMIC WELD.



3 E1.2 ELECTRICAL RISER DIAGRAM
NTS

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SEAL
NORTH CAROLINA PROFESSIONAL SEAL 041433 ENGINEER DAVID L. MEEKS
3-1-2024

SEAL

REV	DATE	DESCRIPTION	BY
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CHK

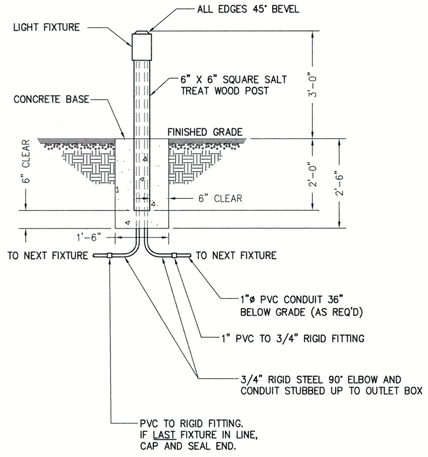
TEG PROJECT NO. 20230059

DATE: 08.31.23

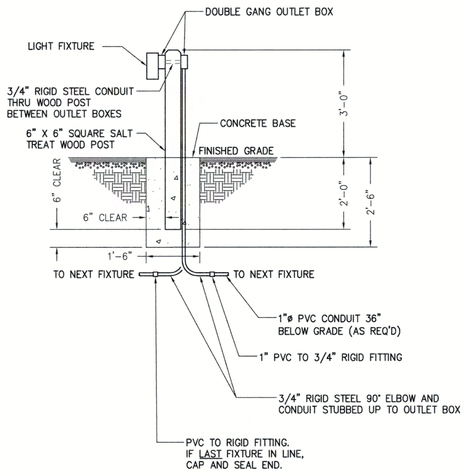
PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
ELECTRICAL
PANEL SCHEDULES,
ONE LINE DIAGRAM
& DETAILS

DRAWING NO. E1.2



FRONT ELEVATION VIEW

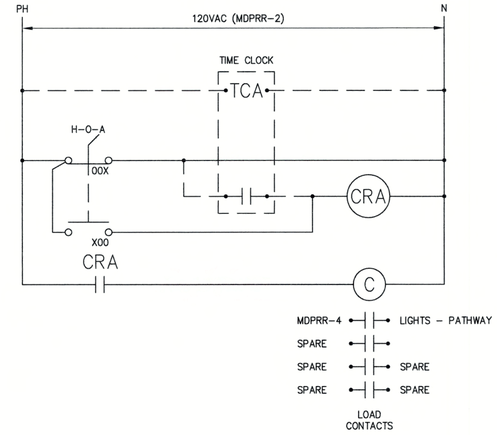


SIDE ELEVATION VIEW

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 BOLLARD BASES.

1 / E1.3 TYPICAL FIXTURE & WOOD BOLLARD DETAIL
NTS - (FIXTURE: 'B1')



2 / E1.3 OLC1 - OUTSIDE LIGHTING CONTACTOR DIAGRAM
NTS - OUTSIDE RESTROOM

MISCELLANEOUS EQUIPMENT SCHEDULE

DESCRIPTION	MANUFACTURER AND MODEL NUMBER
COMBINATION METER-SERVICE ENTRANCE DEVICE; METER/PANELBOARD UNIT, 240/120 VAC, 1 PHASE, 3 WIRE, RAIN-PROOF, MINIMUM 30 SPACES SEE PANEL SCHEDULE FOR MAIN LUG OR MAIN CIRCUIT BREAKER, NUMBER, SIZE, TYPE OF CIRCUIT BREAKERS, AND ADDITIONAL REQUIREMENTS. (PANEL MDP1, MDPPL)	SQUARE-D - QC3040M200S SIEMENS - MC3042B1200RC OR EQUAL
1/4" X 4" X 12" COPPER GROUND BAR WITH PUNCHED LUG HOLES, 2 STANDOFFS AND 2 INSULATORS	ADVANCED LIGHTNING TECHNOLOGY - 3822-5-12 OR EQUAL
18"x18"x8" NEMA 3R METAL ENCLOSURE (FOR MOUNTING GROUND BAR)	
20 AMP, 125 VOLT, NEMA 5-20R, FLUSH MOUNT GFCI RECEPTACLE W/ LED INDICATOR LIGHT, GROUNDING, WEATHER RESISTANT AND TAMPER RESISTANT LISTED, WHITE	LEVITON - GFWR2-W OR EQUAL
WEATHERPROOF SINGLE GANG BOX, GRAY, HEAVY DIE-CAST ALUMINUM, 3 HOLE 3/4", 1 HOLE IN BACK, 1 HOLE EACH END, UL LISTED FOR WET AND/OR DAMP LOCATIONS WITH APPROPRIATE COVER. (USED AT MDPPL & AT HOT BOX)	LEGRAND - WPB33 OR EQUAL
SINGLE GANG DIA-CAST ALUMINUM WEATHERPROOF WHILE-IN-USE, COVER, GRAY, UL LISTED FOR "EXTRA-DUTY" APPLICATIONS, PADLOCKABLE. (PLASTIC UNIT NOT ALLOWED)	HUBBLE - WP26E OR EQUAL
TIME CLOCK, ASTRONOMIC 7-DAY/365 DAY 1-CIRCUIT ELECTRONIC CONTROL, 120-277 VAC, SPDT, SURFACE MOUNT OUTDOOR METAL ENCLOSURE. (FOR OLC1)	INTERMATIC - ET2815CR OR EQUAL
LIGHTING CONTACTOR, 4-POLE, 120VAC COIL, ELECTRICALLY HELD, HAND-OFF-AUTO SWITCH, NEMA 12/3R SURFACE MOUNT ENCLOSURE (OLC1)	SQUARE-D - 8903-LA40-V02-C OR EQUAL

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NC Landscape Architectural License No. C-427

SEAL ELECTRICAL
NORTH CAROLINA PROFESSIONAL SEAL 041433 ENGINEER DAVID L. MEEKS
3-1-2024

SEAL STRUCTURAL
NORTH CAROLINA PROFESSIONAL SEAL 37886 ENGINEER BRIAN HERLIHY
3/1/2024

REV	DATE	DESCRIPTION	BY	CHK
A	8-31-23	95% CONSTRUCTION DOCUMENTS		DLM
B	10-05-23	REVISED 95% CDs		DLM
0	03-01-24	ISSUE FOR CONSTRUCTION		DLM

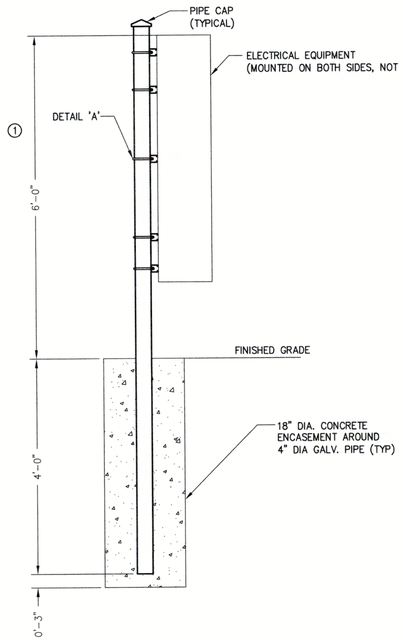
TEG PROJECT NO. 20230059

DATE: 08.31.23

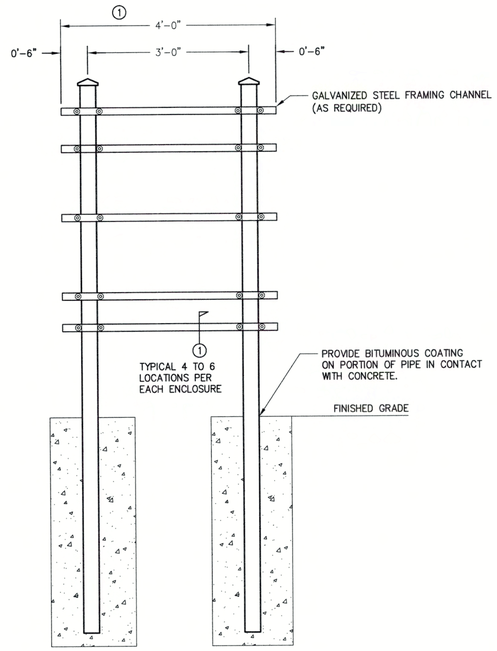
PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
ELECTRICAL DETAILS

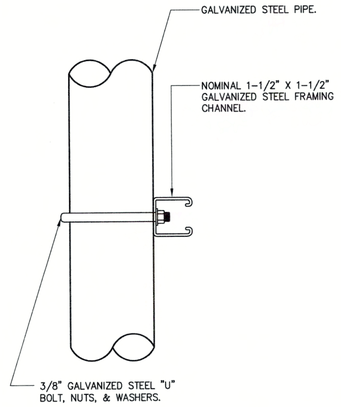
DRAWING NO. E1.3



SIDE VIEW



FRONT VIEW



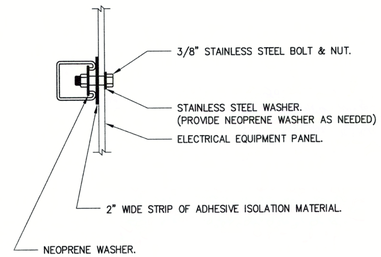
DETAIL – 'A'
(TYPICAL)

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.



SECTION – 1

1 / E1.4 EQUIPMENT RACK DETAILS
3/4"=1'-0"

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No. C-427

SEAL
ELECTRICAL
NORTH CAROLINA PROFESSIONAL SEAL 041433 ENGINEER DAVID L. MEEKS
3-1-2024

SEAL
STRUCTURAL
NORTH CAROLINA PROFESSIONAL SEAL 37886 ENGINEER BRIAN HERLOCK
3/1/2024

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

2018 APPENDIX B - Building Code Summary

Name of Project: WILDWOOD PARK PARTF 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: [X] City/County [ ] Private [ ] State

Code Enforcement Jurisdiction: [X] City [ ] County [ ] State

LEAD DESIGN PROFESSIONAL: Bradley C. Williams, AIA

Designer	Firm	Name	License #	Telephone #	E-mail
Architectural	BW Architecture	Bradley Williams	NC 10568	252.355.1300	brad@bwarchitecture.info
Civil	The East Group, P.A.	Michelle Clements	NC 029422	(252) 758-3746	michelle.clements@eastgroup.com
Electrical	Engineering Source	D. Wilson Pou	NC 021993	(252) 439-0338	wilson@engrsource.com
Fire Alarm	N/A				
Plumbing	Engineering Source	D. Wilson Pou	NC 021993	(252) 439-0338	wilson@engrsource.com
Mechanical	Engineering Source	D. Wilson Pou	NC 021993	(252) 439-0338	wilson@engrsource.com
Sprinkler-Standpipe	N/A				
Structural	RPA Engineering	Mark Roy	NC 17348	(252)-321-6027	mark.roy@rpaengineering.com
Retaining Walls>5' High	N/A				
Other	N/A				

2012 EDITION OF NC CODE FOR: [X] 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 [ ] IV (Sanctuary) [ ] V-A
[ ] I-B [ ] II-B [ ] III-B [X] V-B

Sprinklers: [X] No [ ] Partial [ ] Yes [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D

Standpipes: [X] No [ ] Yes Class [ ] I [ ] II [ ] III [ ] Wet [ ] Dry

Fire District: [X] No [ ] Yes (Primary) Flood Hazard Area: [X] 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.

ALLOWABLE AREA

Primary Occupancy:

Assembly: [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [ ] A-5
[X] Business
[ ] Educational
Factory: [ ] F-1 Moderate [ ] F-2 Low
Hazardous: [ ] H-1 Detonate [ ] H-2 Deflagrate [ ] H-3 Combust [ ] H-4 Health [ ] H-5 HPM
Institutional: [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-3 Condition [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
[ ] Mercantile
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 HPM
Institutional: [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-3 Condition [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
[ ] Mercantile
Residential: [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
Storage: [X] 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 Uses: N/A [ ] 402 [ ] 403 [ ] 404 [ ] 405 [ ] 406 [ ] 407 [ ] 408 [ ] 409 [ ] 410 [ ] 411 [ ] 412 [ ] 413 [ ] 414 [ ] 415 [ ] 416 [ ] 417 [ ] 418 [ ] 419 [ ] 420 [ ] 421 [ ] 422 [ ] 423 [ ] 424 [ ] 425 [ ] 426 [ ] 427

Special Provision [ ] 509.2 [ ] 509.3 [ ] 509.4 [ ] 509.5 [ ] 509.6 [ ] 509.7 [ ] 509.8 [ ] 509.9

Mixed Occupancy: [ ] No [X] Yes Separation: Hr: Exception:

[ ] Incidental Use Separation (508.2.5)

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

[X] 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.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{0}{0} + \frac{0}{0} = 0 \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 AREA 5	(C) AREA FOR FRONTAGE INCREASE 1	(D) AREA FOR SPRINKLER INCREASE 2	(E) ALLOWABLE AREA OR UNLIMITED 3	(F) MAXIMUM BUILDING AREA 4
1	BUSINESS	192	9,000	N/A	N/A	N/A	9,000

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] x 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 x 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 HEIGHT

	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

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEP. DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (WITH REDUCTION)	DETAIL NO. AND SHEET NO.	DESIGN NO. FOR RATED ASSEMBLY	DESIGN NO. FOR RATED PENETRATION	DESIGN NO. FOR RATED JOINTS
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	[X] Yes
Exit Signs:	[ ] No	[X] Yes
Fire Alarm:	[X] No	[ ] Yes
Smoke Detection Systems:	[X] No	[ ] Yes
Panic Hardware:	[X] No	[ ] Yes
Life Safety Systems Generator:	[X] No	[ ] Yes

LIFE SAFETY PLAN REQUIREMENTS

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 (1005.1)
- [ ] 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.

OCCUPANCY CALCULATIONS - SEE LIFE SAFETY PLAN BELOW

USE GROUP OR SPACE DESCRIPTION	AREA sq. ft.	AREA PER OCCUPANT sq. ft	NUMBER OF OCCUPANTS	

ACCESSIBLE DWELLING UNITS (SECTION 1107) NA

ACCESSIBLE PARKING NA

STRUCTURAL DESIGN SEE STRUCTURAL PLANS

PLUMBING FIXTURE REQUIREMENTS (Table 2902.1)

USE B	WATERCLOSETS MALE	WATERCLOSETS FEMALE	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS 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

Drawing Index

COVER SHEET / BUILDING CODE SUMMERY

A1 FLOOR PLAN / SCHEDULES / NOTES
A2 REFLECTED CEILING PLAN / ROOF PLAN
A3 EXTERIOR ELEVATIONS
A4 SECTIONS/DETAILS

P101 WASTE PIPING PLAN / RISER DIAGRAM
P102 WATER PIPING PLAN/ FIXTURE SCHEDULE

M101 MECHANICAL PLAN / NOTES / SCHEDULES / DETAILS

E101 POWER PLAN / ELECTRICAL SCHEDULE / DETAILS / NOTES
E102 LIGHTING PLAN / SCHEDULE

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BW ARCHITECTURE, PLLC

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100 A OAKMONT DR.
GREENVILLE, NC 27858
252.355.1300

SEAL

BRADLEY C. WILLIAMS REGISTERED ARCHITECT 10568 3.1.2024 NORTH CAROLINA GREENVILLE, NORTH CAROLINA

REV	DATE	DESCRIPTION	BY	CHK

TEG PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE

Greenville NORTH CAROLINA

WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

BCS SHEET

DRAWING NO.

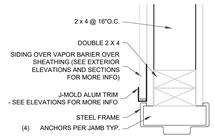
BCS1

DOOR SCHEDULE

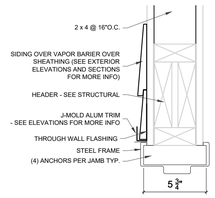
NUMBERS	DOORS SIZE	DOORS DOOR TYPE		FRAME		CLOSER	CLOSER W/ BACKSTOP	DEADBOLT LOCK	ENTRY LOCK	PASSAGE SET	OFFICE LOCKSET	PUSH / PULL	FLOOR / CEILING BOLT	WALL STOP	OVERHEAD STOP	CARD READER	PANIC DEVICE	KICK PLATE	THRESHOLD	WEATHER-STRIPPING	SMOKE SEAL	KEYED MULLION	MAGNETIC HOLD OPEN	
101A	1.75 x 3070	HM-1	HOLLOW METAL	HOLLOW METAL			X	X				X						X	X	X				NOTE 6
102A	1.75 x 3070	HM-1	HOLLOW METAL	HOLLOW METAL			X	X				X						X	X	X				
103A	1.75 x 3070	HM-1	HOLLOW METAL	HOLLOW METAL			X	X				X						X	X	X				NOTE 6

NOTES
(1) ALL DOORS TO BE PROVIDED WITH APPROVED HINGES
(2) ALL STEEL FRAMES TO BE PROVIDED WITH SILENCERS
(3) ALL EXTERIOR DOORS TO BE PROVIDED WITH WEATHERSTRIPPING AND HEAVY DUTY ALUM. THRESHOLDS
(4) PROVIDE SOLID WOOD BLOCKING FOR DOOR STOPS AND HOLD OPEN DEVICES
(5) EXIT DEVICES AT EXTERIOR DOORS TO BE NL WITH PULL
(6) PROVIDE PROGRAMMABLE ELECTROMAGNETIC LOCK

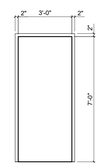
ALL HARDWARE TO BE PURCHASED THROUGH A $4,000 ALLOWANCE TO BE INCLUDED IN THE BASE BID.
OWNER TO VERIFY ALL HARDWARE AND DOOR SIZES PRIOR TO GC ORDERING OF ANY DOORS, HARDWARE, ETC.



EXT. DOOR JAMB COND.



EXT. DOOR HEAD COND.



HM-1
HOLLOW METAL DOOR IN STEEL FRAME

TOILET ACCESSORY SCHEDULE

MARK	MODEL	DESCRIPTION	REMARKS
HD	XLERATOR eco XL-BW-ECO	ELECTRIC HAND DRYER	G.C. TO PROVIDE BLOCKING AND INSTALL
PT	BOBRICK B-2974	PAPER TOWEL HOLDER	G.C. TO PROVIDE BLOCKING AND INSTALL
TPH	BOBRICK B-2888	TOILET PAPER HOLDER	G.C. TO PROVIDE BLOCKING AND INSTALL
SD	BOBRICK 818615	SOAP DISPENSER	G.C. TO PROVIDE BLOCKING AND INSTALL
GBV18	BOBRICK B-6806x18"	18" VERTICAL GRAB BAR	G.C. TO PROVIDE BLOCKING AND INSTALL
GB36	BOBRICK B-6806x36"	36" GRAB BAR	G.C. TO PROVIDE BLOCKING AND INSTALL
GB42	BOBRICK B-6806x42"	42" GRAB BAR	G.C. TO PROVIDE BLOCKING AND INSTALL
MR36	BOBRICK B-165 2436	LAMINATED GLASS MIRROR W/ S.S. CHANNEL MOLD	G.C. TO PROVIDE BLOCKING AND INSTALL
CT	BOBRICK KB200-00	HORIZONTAL, WALL MOUNTED CHANGING STATION	G.C. TO PROVIDE BLOCKING AND INSTALL

NOTES
(1) PROVIDE 2 x BLOCKING FOR ALL TOILET ACCESSORIES (INCLUDING OWNER AND GC PROVIDED ITEMS)
(2) SEE INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS

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

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

ALLOWANCES

1. GC TO PROVIDE $4,000 HARDWARE ALLOWANCE IN BASED BID FOR PURCHASE OF ALL DOOR HARDWARE. NOTE: LABOR FOR INSTALLATION SHALL BE INCLUDED IN BASE BID.

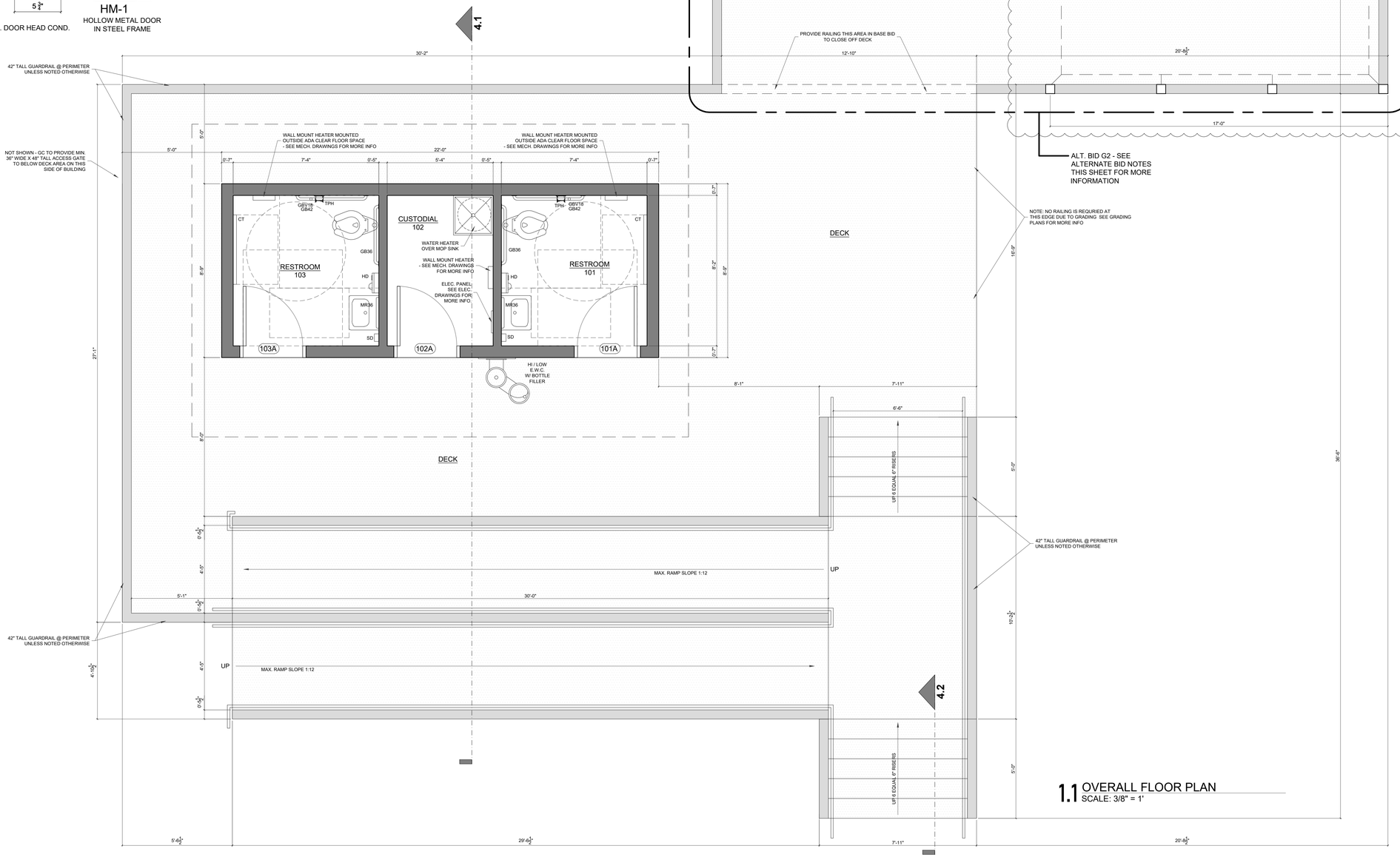
GENERAL NOTES

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 DISCREPANCIES 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 BATTS
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 OPTIMUM RESULTS FOR ALL WORK, PRODUCTS, INSTALLATIONS, ETC.
9. GC SHALL INSTALL 2x 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 VERTICAL AND HORIZONTAL SPACES 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 MAX 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



1.1 OVERALL FLOOR PLAN
SCALE: 3/8" = 1'

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SEAL

BRADLEY C. WILLIAMS
REGISTERED ARCHITECT
10568
3.1.2024
NORTH CAROLINA
GREENVILLE, NORTH CAROLINA

REV.	DATE	DESCRIPTION	BY	CHK
1	3.12.24	FRAMING REVISION		

TEG PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE

Greenville NORTH CAROLINA

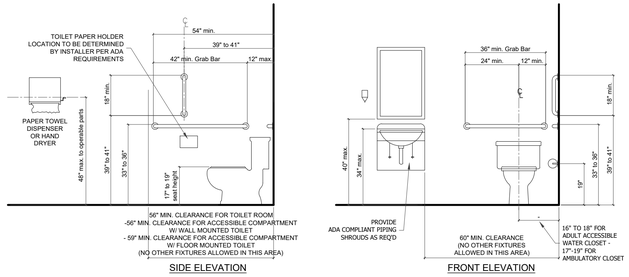
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

FLOOR PLAN & SCHEDULES

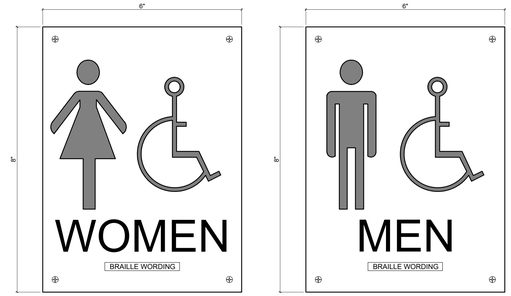
DRAWING NO.

A1



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

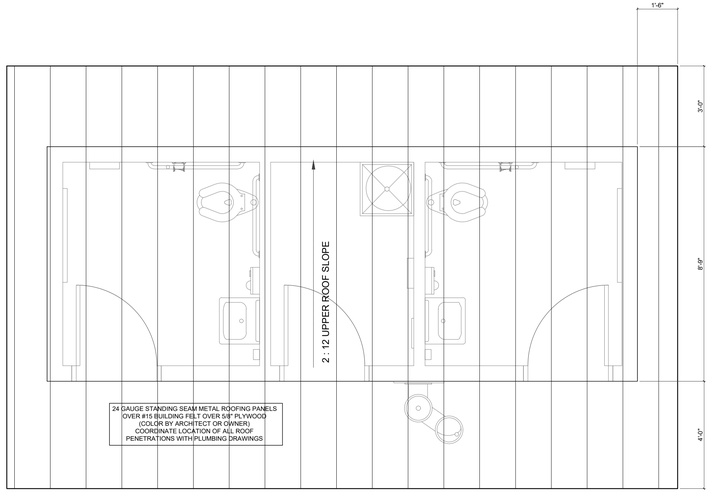
2.4 TYPICAL ACCESSIBLE RESTROOM DETAILS
SCALE: NTS



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

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 CONCTRACTOR 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

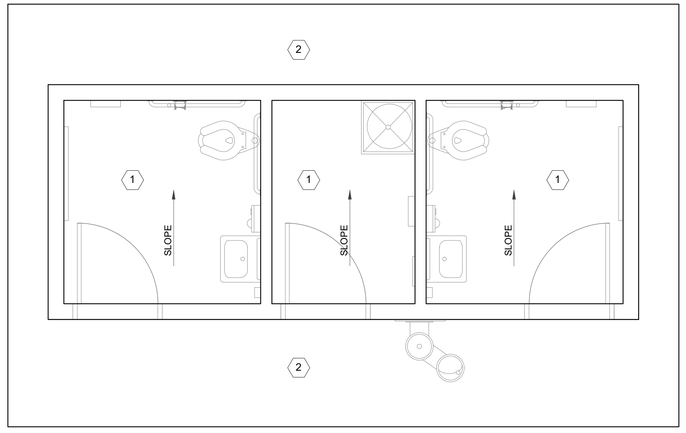


2.2 ROOF PLAN
SCALE: 3/8" = 1'

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'

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SEAL

BRADLEY C. WILLIAMS
REGISTERED ARCHITECT
10568
3.1.2024
NORTH CAROLINA
GREENVILLE, NORTH CAROLINA

REV	DATE	DESCRIPTION	BY	CHK

TEG PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE

Greenville NORTH CAROLINA

WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

REFLECTED CEILLING PLAN & ROOF PLAN

DRAWING NO.

A2

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.)..

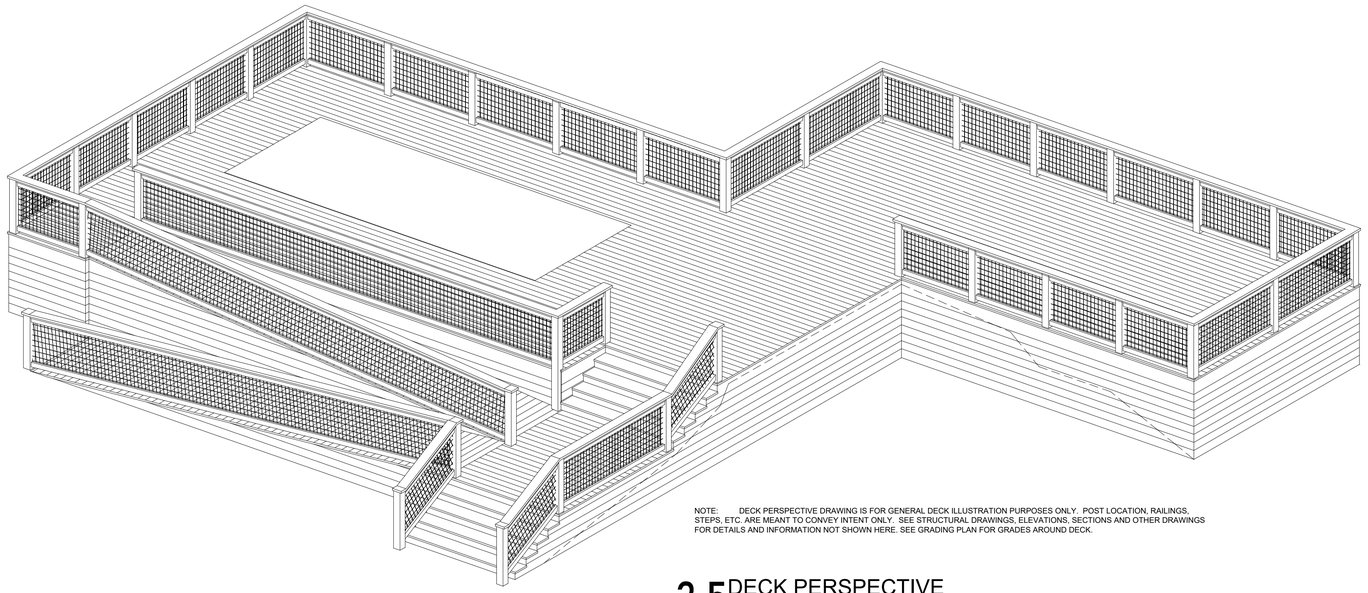
NOTE: SEE PROJECT MANUAL FOR ALL OTHER NON-BUILDING ALTERNATE BIDS

SIDING SCHEDULE

7" LAP CEMENTITIOUS SIDING BY NICHIHA, JAMES HARDIE OR EQUAL

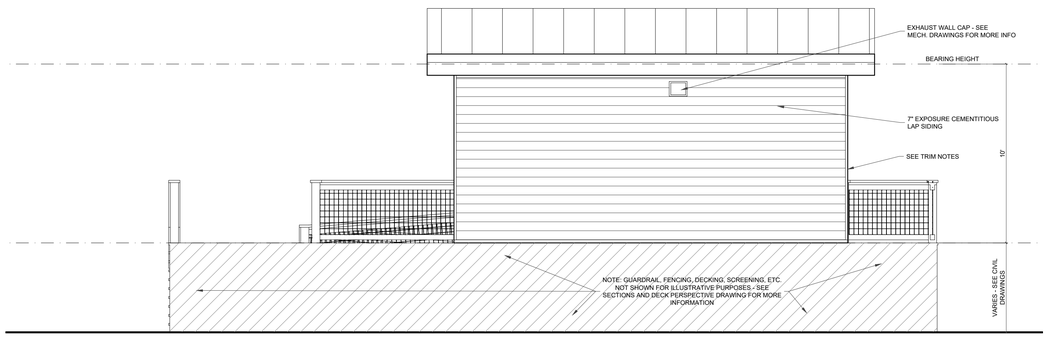
TRIM NOTES:

NOTE 1: ALL OUTSIDE CORNER TRIM TO BE PREFINISHED ALUMINUM WITH 1" EXPOSURE SIMILAR TO TAMYLN XTREME TRIM OR EASY TRIM
NOTE 2: ALL INSIDE CORNER TRIM TO BE PREFINISHED ALUMINUM WITH 5/8" EXPOSURE SIMILAR TO TAMYLN XTREME TRIM OR EASY TRIM
NOTE 3: ALL J-MOLD TRIM AT HEAD CONDITIONS TO BE PREFINISHED ALUMINUM WITH 3/8" EXPOSURE SIMILAR TO TAMYLN XTREME TRIM OR EASY TRIM
NOTE 4: ALL SIDING TO SIDING TRANSITION TRIM TO BE PREFINISHED ALUMINUM WITH 1" EXPOSURE SIMILAR TO TAMYLN XTREME TRIM OR EASY TRIM

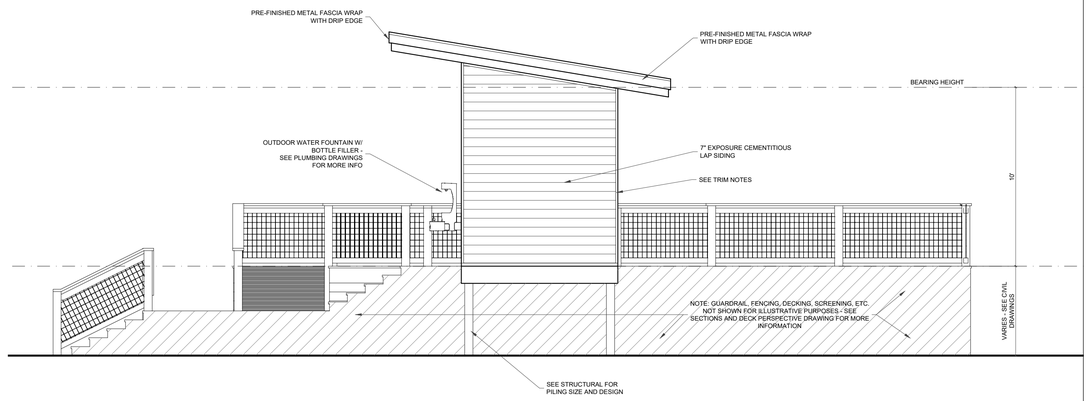


NOTE: DECK PERSPECTIVE DRAWING IS FOR GENERAL DECK ILLUSTRATION PURPOSES ONLY. POST LOCATION, RAILINGS, STEPS, ETC. ARE MEANT TO CONVEY INTENT ONLY. SEE STRUCTURAL DRAWINGS, ELEVATIONS, SECTIONS AND OTHER DRAWINGS FOR DETAILS AND INFORMATION NOT SHOWN HERE. SEE GRADING PLAN FOR GRADES AROUND DECK.

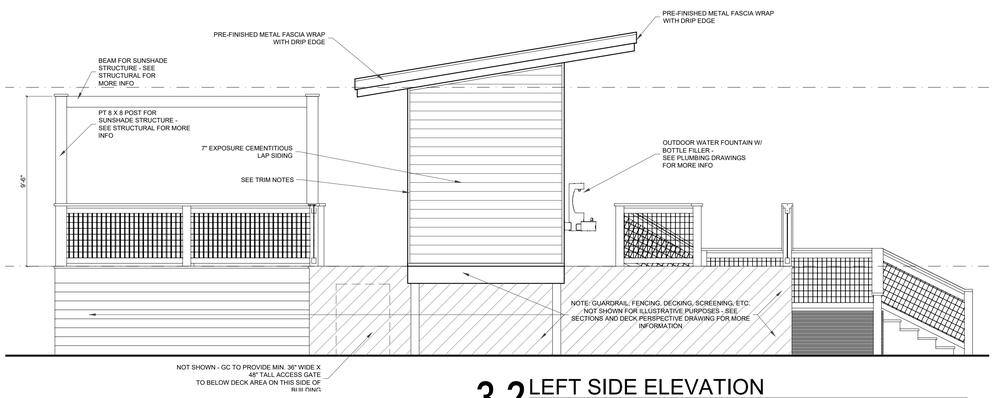
3.5 DECK PERSPECTIVE
SCALE: NTS



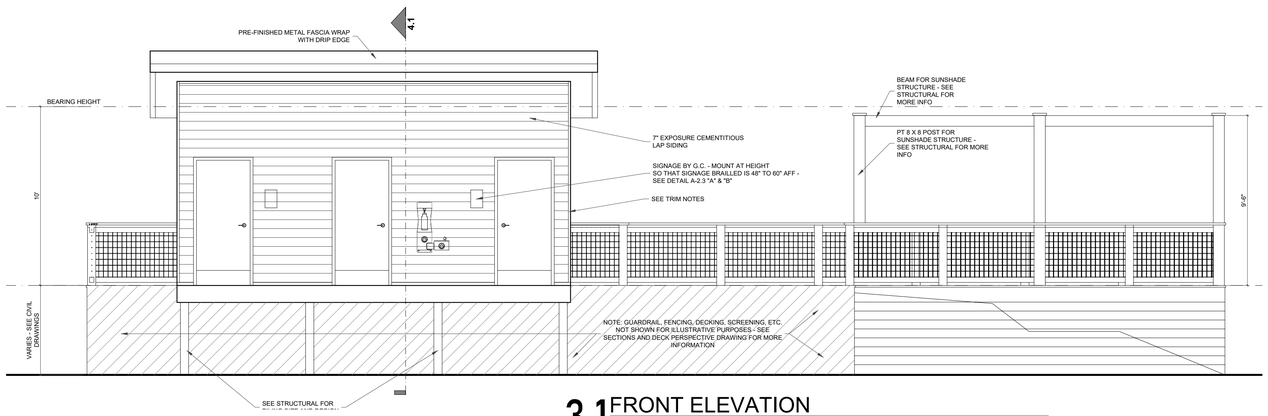
3.4 REAR ELEVATION
SCALE: 1/4" = 1'



3.3 RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'



3.2 LEFT SIDE ELEVATION
SCALE: 1/4" = 1'



3.1 FRONT ELEVATION
SCALE: 1/4" = 1'

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BRADLEY C. WILLIAMS
REGISTERED ARCHITECT
10568
3.1.2024
NORTH CAROLINA
GREENVILLE, NORTH CAROLINA

REV	DATE	DESCRIPTION	BY	CHK

TEG PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE

Greenville NORTH CAROLINA

WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

EXTERIOR ELEVATIONS

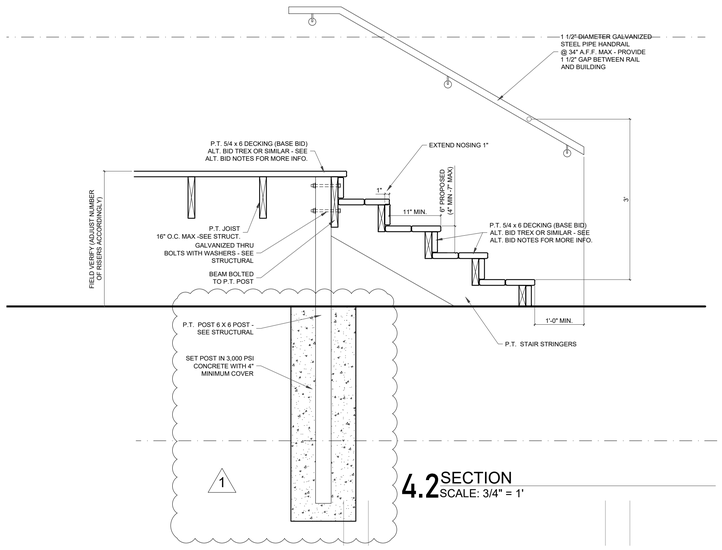
DRAWING NO.

A3

ALTERNATE BIDS

4. 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) OR EQUAL BY TIMBERTECH IN PLACE OF PRESSURE TREATED DECKING WHERE SHOWN IN PLANS AND DETAILS (DECK, STAIR, ETC.).

4-A. 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.



4.2 SECTION
SCALE: 3/4" = 1'

4.1 SECTION
SCALE: 3/4" = 1'

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REV	DATE	DESCRIPTION	BY	CHK
1	3.12.24	FOUNDATION AND FRAMING REVISIONS		

TEG PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE

Greenville NORTH CAROLINA

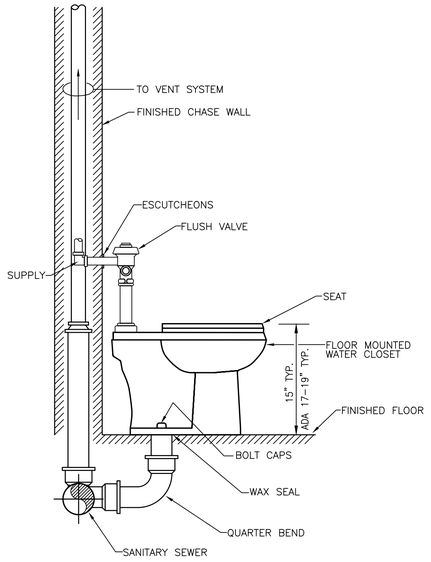
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

SECTIONS

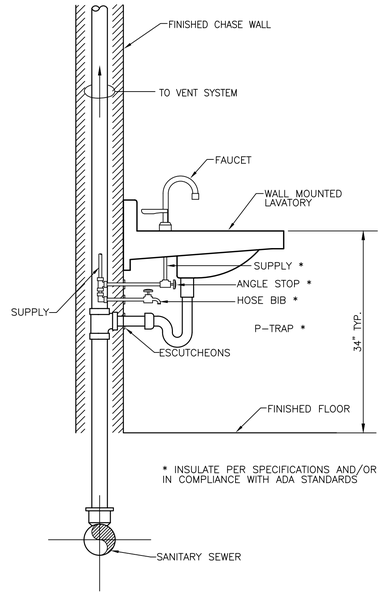
DRAWING NO.

A4



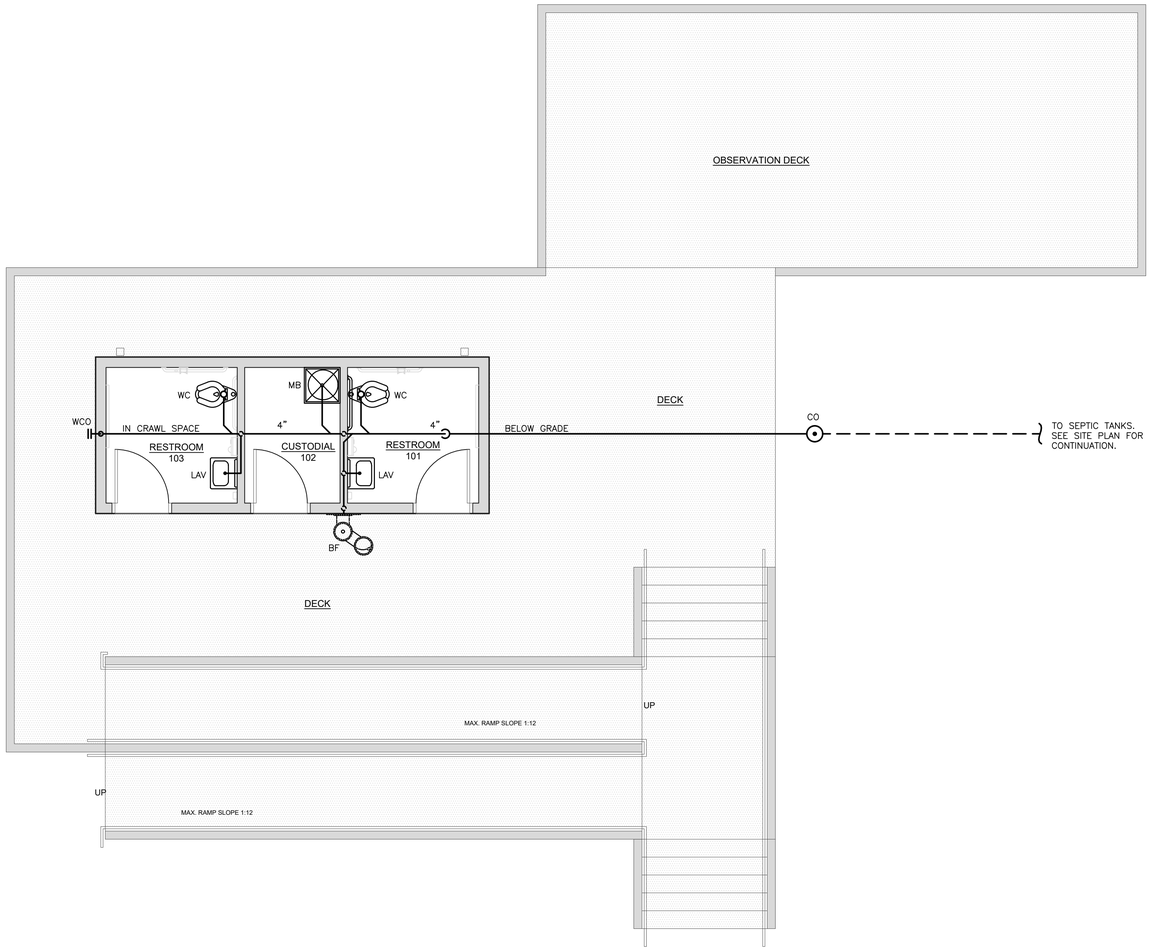
WATER CLOSET

SCALE: N.T.S.



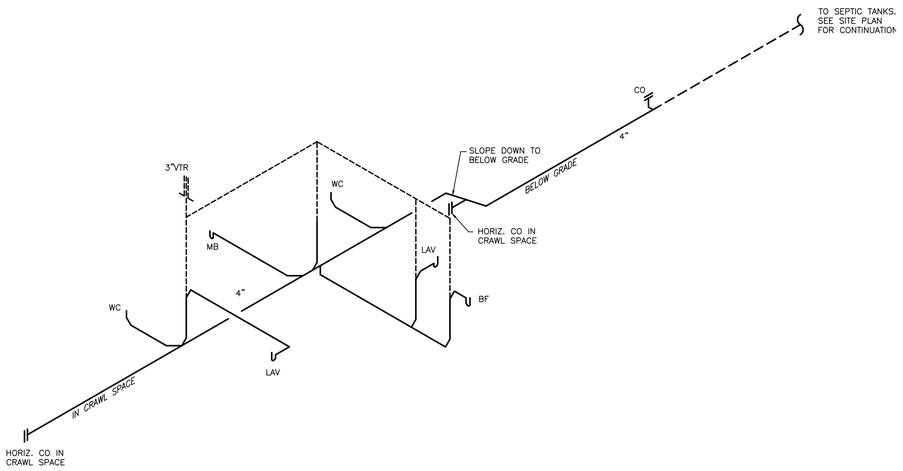
LAVATORY - WALL MOUNTED

SCALE: N.T.S.



101.1 SANITARY SEWER PLAN

SCALE: 1/4" = 1'



101.2 DWV RISER DIAGRAM

SCALE: N.T.S

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SEAL

REV.	DATE	DESCRIPTION	BY	CHK

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ARCHITECT PROJECT NO.

PROJECT TITLE

Greenville NORTH CAROLINA

WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

WASTE PLAN
& RISER,DETAILS

DRAWING NO.

P101

ES Project No: ES24002

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102-A2 Regency Blvd. Greenville, NC 27834
E-Mail Address: generalmail@engrsource.com
Voice (252) 439-0338 * Fax (252) 439-0462 * Firm #C-1973

NORTH CAROLINA SEAL 027923 ENGINEER D. WILSON ROU 3/1/24

PLUMBING GENERAL NOTES:

1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH N.C. PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.

2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, TEES, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.

3. THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.

4. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC. (COST SHALL BE PASSED THROUGH TO OWNER).

5. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.

6. ALL DOMESTIC WATER PIPING SHOWN IS ABOVE BETWEEN FLOOR JOIST/WITHIN WALLS, AND IN CRAWL SPACES UNLESS OTHERWISE NOTED.

7. ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE CPVC OR FLEXIBLE PLASTIC TUBING (PEX). PIPING BELOW SLAB SHALL BE SOFT COPPER TUBING, 10'-0" MINIMUM, WITH NO JOINTS WHERE COPPER TUBING IS TO BE UTILIZED AS THE ELECTRICAL SYSTEM GROUNDING ELECTRODE. COORDINATE WITH E.C.

8. ALL WATER PIPING SHALL BE INSULATED WITH PREFORMED FIBERGLASS TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK. INSTALL SADLES AS REQUIRED IN ALL LOCATIONS TO PREVENT COMPRESSION OF INSULATION.

9. ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY, FULL PORT, CHROME PLATED BALL. TEFLON SEATS 150 # WSP, FOR SIZES 1/2" THRU 2". PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.

10. ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.

11. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D 2665. ALL JOINTS SHALL BE SOLVENT WELDED TYPE CONFORMING TO ASTM D 2665/2949/3034, ASTM F 891, CSA B182.2,CSA CAN/CSA-B182.4

12. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY NC PLUMBING CODE AND MANUFACTURERS RECOMMENDATIONS.

13. ALL PIPING PENETRATIONS THRU NEW AND EXISTING WALLS SHALL BE SEALED TO EQUAL RATING OF THE NEW/EXISTING WALL.

14. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER N.C. PLUMBING CODE.

15. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPING WITH ALL STRUCTURAL FOUNDATIONS, P.C. SHALL COORDINATE ALL UNDER SLAB PLUMBING WITH ELEVATION INVERTS WITH THE SITE UTILITY INVERTS.

16. ALL EXPOSED WATER SUPPLY AND WASTE LINES UNDER OPEN SINKS/LAVATORIES SHALL HAVE PROTECTIVE DEVICES INSTALLED TO MEET LATEST NCSBC AND ADA REQUIREMENTS.

17. THE ENTIRE PLUMBING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH NC PLUMBING CODE.

18. ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.

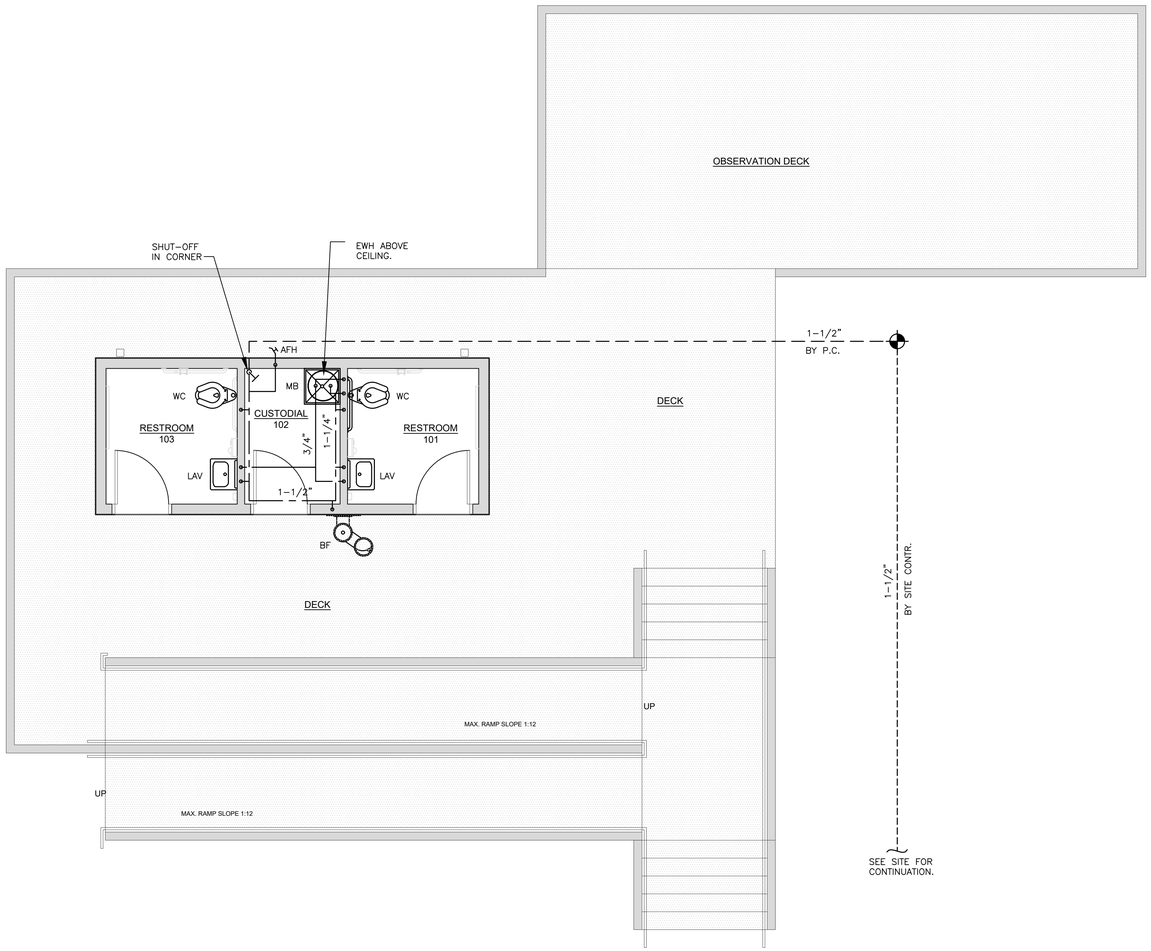
19. WATER HEATERS SHALL COMPLY WITH N.C ENERGY CODE SECTION 504 OF THE NC BUILDING CODE

20. ALL FLOOR DRAINS, HUB DRAINS, AND FLOOR SINKS SHALL HAVE TRAP PRIMERS OR HOSE BIBBS, INSTALLED AS SPECIFIED IN THE N.C. PLUMBING CODE SECTION 412.6.

21. P.C. SHALL VERIFY AND SET THE MAXIMUM OUTLET TEMPERATURES AT ALL NON-COMMERCIAL KITCHEN EQUIPMENT INCLUDING HAND SINKS LOCATED IN THE KITCHEN TO NOT EXCEED 120°F BY INSTALLATION OF POINT OF USE ANTI-SCALD MIXING VALVES IF NECESSARY.

22. ALL ACCESS COVERS INCLUDING BUT NOT LIMITED TO IN-GRADE CLEANOUTS, MANHOLES, AND WATER METER BOXES SHALL BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE SPECIFIED

23. P.C. SHALL PROTECT ALL PLUMBING PIPE AS IT COMES UP THROUGH CONCRETE PER SECTION 305.1 OF THE N.C. PLUMBING CODE.



102.1 POTABLE WATER PLAN
SCALE: 1/4" = 1'

FIXTURE UNIT REQUIREMENTS

POTABLE WATER SUPPLY	32.7 GPM USE 1-1/2" SERVICE
WASTE	13.0 FU USE 4" SERVICE

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	FINISH	COLD	HOT	VENT	WASTE	ADA
WC	WATER CLOSET – KOHLER HIGHCLIFF UNIVERSAL HEIGHT EL 1.6 ELONGATED FLUSH VALVE WC	WHITE			2"	4"	YES
	SEAT – KOHLER K-4666-SA ANTI-MICROBIAL OPEN FRONT SEAT W/ SELF SUSTAINING CHECK HINGE	WHITE					YES
	FLUSH VALVE – ZURN TOUCHLESS FLUSHOMETER WITH MANUAL OVERRIDE ZER6000AV-TM-WS1 OR EQUAL	CHROME	1"				
LAV	LAVATORY – KOHLER "HUDSON" WALL HUNG LAVATORY MODEL NO. K-2867 ENAMELD CAST IRON				2"	3"	
	FAUCET – MOEN 8414 SINGLE HANDLE FAUCET		3/4"	3/4"			
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION.)						
MB	MOP SINK – E.L. MUSTEE 10" MOP SINK M# 63M				2"	3"	
	FAUCET – STERN WILLIAMS MOP SINK FAUCET M# T-10-VB		3/4"	3/4"			
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION.)						
BF	BOTTLE FILLING STATION WALL MOUNT WITH SINGLE FOUNTAIN NON-FILTERED NON-REFRIGERATED	BY ARCH.	3/4"		1-1/2"	2"	YES
	ELKAY OUTDOOR EZH20 BOTTLE FILLING STATION: MODEL# LK4408BF						
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS).						
AFH	WALL HYDRANT – WOODFORD SANITARY AUTOMATIC DRAINING FREEZELESS M# B65	CHROME	3/4"				
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)						
CO	CLEAN-OUT IN FLOOR – ZURN MODEL # ZN-1444-BP WITH INSIDE CAULK CONNECTION	BRONZE				3"	
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)						
WCO	WALL-CLEAN-OUT – ZURN M# ZN-1441-BP	BRONZE					
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)					2"	

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

EWH SCHEDULE

TAG	LOCATION	CAP	ELEMENT	TEMP	RCVY @ 60° RISE	MFR / MODEL no.	ELECT'L	NOTES
EWH	CUSTODIAL 102 ABOVE CEILING	20	3000 W	110	20 GAL	A.O. SMITH No. DEL-40	208V 1ø 21.6A	1,3,4,5

NOTES:
1) STATE INDUSTRIES, LOCHINVAR, OR RHEEM/RUUD MEETING OR EXCEEDING SPECIFICATIONS ARE ACCEPTABLE SUBSTITUTES
2) PROVIDE BRONZE BODY RECIRCULATION PUMP RATED FOR 8 GPM @ 10' HEAD, 1/12 hp, 115V, B&G No. LR-158 OR EQUAL BY TACO OR ARMSTRONG.
3) PROVIDE EWH WITH NON-SIMULTANEOUS DUAL ELEMENTS SIZED AS SPECIFIED
4) SEE DETAIL FOR ACCESSORIES
5) WATER HEATER SHALL COMPLY WITH SECTION 504 OF THE NORTH CAROLINA ENERGY CODE.

ABBREVIATIONS:
CAP = STORAGE CAPACITY (gal)
ELEMENT = (qty) WATTAGE
TEMP = HW OUTPUT TEMPERATURE (deg F)
RCVY = RECOVERY @ 100 deg F RISE (gph)
POU = POINT OF USE WATER HEATER

FIXTURE CALCULATIONS JUSTIFICATION

OCCUPANCY = OUTDOOR PARK/RECREATION AREA

ESTIMATED LOAD FOR OCCUPANT CALC.:
TOTAL PEOPLE: 50 PEOPLE

DIVISION OF FACILITIES PER TABLE 403.4:
MALE: 50%
FEMALE: 50%
50 x 0.5 = 25 FEMALE
50 – 25 = 25 MALE

	MINIMUM PLUMBING FIXTURES FROM TABLE 403.1	
	TOTAL REQUIRED	TOTAL PROVIDED
MALES	1 WC 1 LAVATORY	1 WC 1 LAVATORY
FEMALES	1 WC 1 LAVATORY	1 WC 1 LAVATORY
DRINKING FOUNTAIN	1 DF	1 DF

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SEAL

REV	DATE	DESCRIPTION	BY	CHK

TEG PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
WATER PLAN & SCHEDULES, NOTES

DRAWING NO.
P102

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ES Project No: ES24002

JOHN CARL WILSON 021993 REGISTERED PROFESSIONAL ENGINEER 3/11/24

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.

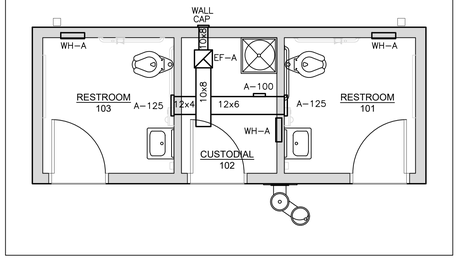
14. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING & CONNECTIONS TO HIS EQUIPMENT. COOR'D. FEEDER AND FUSE SIZES FOR SPECIFIC EQUIPMENT PROVIDED WITH ELECTRICIAN. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL WORK AND EQUIPMENT REQUIRED TO PROVIDE FEEDERS FOR EQUIPMENT THAT EXCEEDS 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
C AHU–1	CO2 SENSOR (800 PPM) & UNIT SERVED.
$T	TWIST TIMER SWITCH
M	120V MOTORIZED DAMPER
CN AHU–1	CO & NO SENSOR & UNIT SERVED. CONSPEC CN50–CON02

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: D. Wilson Pou

NAME: D. Wilson Pou, P.E.

TITLE: Owner/Engineer

ES Project No: ES24002

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NORTH CAROLINA SEAL 021997 ENGINEER D. WILSON POU 3/1/24

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SEAL

REV	DATE	DESCRIPTION	BY	CHK

TEG PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
SHEET NAME

DRAWING NO.
M101

ELECTRICAL NOTES:

1. DO NOT SCALE THESE DRAWINGS; REFER TO LARGEST SCALE ARCHITECTURAL PLANS.

2. 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.

3. 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.

4. CONTRACTOR SHALL INSTALL, GROUND AND BOND SYSTEM PER THE NEC.

5. CONTRACTOR SHALL NOT PUT MORE THAN SIX (6) DUPLEX RECEPTACLES ON ANY GIVEN 1P–20A CIRCUIT UNLESS SHOWN OTHERWISE.

6. MINIMUM WIRE SIZE SHALL BE #12 AWG., MINIMUM CONDUIT SIZE SHALL BE 3/4".

7. CONTRACTOR SHALL COORDINATE TELEPHONE AND DATA OUTLETS REQUIRED WITH OWNER PRIOR TO GYP. BOARD BEING INSTALLED.

8. 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.

9. CABLE LOCATED IN PLENUMS SHALL BE PLENUM–RATED.

10. LIGHTING SWITCHES, RECEPTACLES AND/OR DATA OUTLETS SHALL NOT BE MOUNTED BACK TO BACK IN ANY WALL.

11. 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.

12. 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.

13. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL EMPTY CONDUIT SHALL HAVE A PULL WIRE.

14. 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.

15. ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER.

16. ALL 1P–20A CIRCUITS SHALL BE 2–#12 & 1–#12G IN 3/4"C U.N.O.

17. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL VOLUMES OF THE NCSBC, INSPECTORS HAVING JURISDICTION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.

18. EACH PIECE OF ELECTRICAL GEAR, EQUIPMENT, ETC., SHALL BEAR A "UL" LABEL.

19. ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT ELECTRICAL ITEMS.

20. ALL EMERGENCY AND EXIT LIGHTS SHALL BE CONNECTED TO THE UNINTERRUPTED SIDE OF THE LOCAL LIGHTING CIRCUIT.

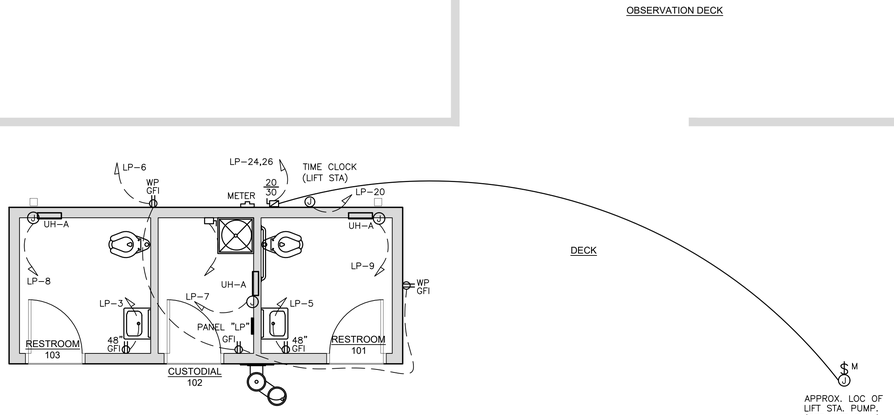
21. INSTALL ENGRAVED PHENOLIC LABELS ON ALL ELECTRICAL GEAR, DISCONNECTS, ETC. FASTEN WITH SCREW FASTENERS.

22. 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.

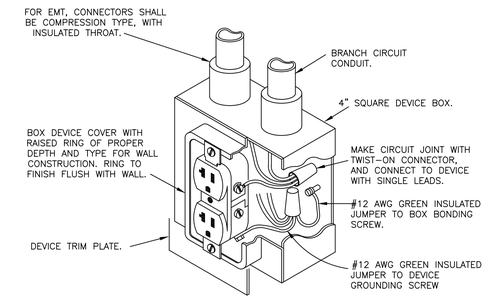
23. VERIFY WITH OWNER LOCATION/TYPE OF ALL FIXTURES, PANEL BOXES, OUTLET PLACEMENT, ETC. BY HOLDING AN ELECTRICAL WALK THROUGH ON THE BUILDING SITE ONCE FRAMING IS COMPLETED.

24. ELECTRICAL BOXES INSTALLED IN U.L. RATED WALLS SHALL BE LOCATED A MINIMUM OF 2'–0" FROM ANY OTHER ELECTRICAL BOX IN THAT WALL.

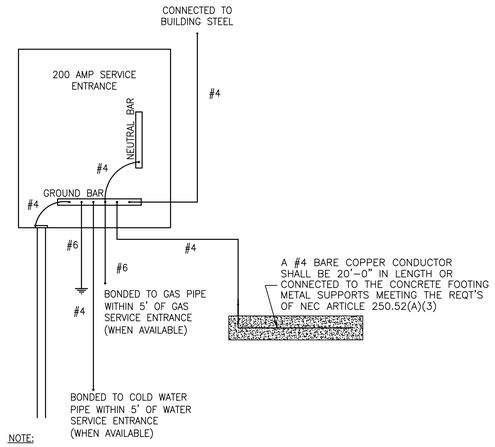
25. E.C. SHALL INSTALL ALL DEVICES AT MOUNTING HEIGHTS TO MEET ANSI 117 REQUIREMENTS FOR ACCESSIBILITY.



101.1 POWER PLAN
SCALE: 1/4" = 1'

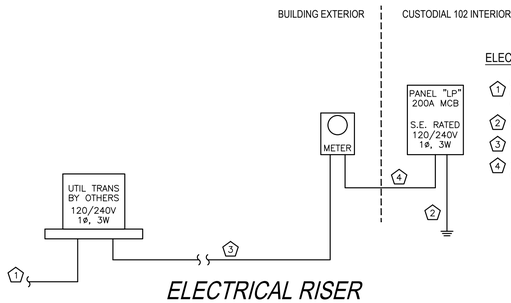


TYPICAL DUPLEX RECEPTACLE INSTALLATION
SCALE: NONE



NOTE:
1. THIS DRAWING ONLY SHOWS GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS. ALL CONDUITS SHALL ALSO HAVE EQUIPMENT GROUNDING CONDUCTORS SIZED PER NEC AND DRAWINGS.
2. 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



ELECTRICAL RISER

ELECTRICAL RISER NOTES:
1. UNDERGROUND/OVERHEAD SERVICE BY UTILITY CO (GUC). COORDINATE ANY/ALL CONDUIT AND PAD REQUIREMENTS.
2. GROUND SERVICE PER 200A GRND DETAIL
3. 3–#3/0 IN 2"C BELOW GRADE BY UTIL.
4. 3–#3/0 IN 2"C. UNDER BUILDING IN CRAWL SPACE

LP DEMAND LOAD CALCS

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

PANELBOARD SCHEDULE - 'LP'

MAIN: 200A MCB — VOLTAGE 240/120 — PHASE: 1 — WIRE: 3 — MOUNTING: SURFACE — AIC: 10,000 — NOTES:

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A	PHASE B	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	3/4"	LIGHTING INTERIOR	0.1						0.1			0.2							LIGHTING - EXTERIOR	3/4"	10	1	30	2
3	20	1	12	3/4"	RECEPT - RR 103		0.2														0.2	CONTACTOR (LC-1)	3/4"	12	1	20	4
5	20	1	12	3/4"	RECEPT - RR 101		0.2									0.6						RECEPT - CUST/EXTER	3/4"	12	1	20	6
7	20	1	12	3/4"	UNIT HEATER 102					0.8									0.8			UNIT HEATER 103	3/4"	12	1	20	8
9	20	1	12	3/4"	UNIT HEATER 101					0.8											1.5	EWH	3/4"	10	2	30	10
11	20	1	12	3/4"	SPARE																1.5						12
13	20	1	12	3/4"	SPARE																	SPARE	3/4"	12	1	20	14
15	20	1	12	3/4"	SPARE																	SPARE	3/4"	12	1	20	16
17	20	1	12	3/4"	SPARE																	SPARE	3/4"	12	1	20	18
19	20	1	12	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
RECEPTACLES (KVA):	1.0				
MOTORS (KVA):	5.8				
A/C (KVA):	0.0				
HEATING (KVA):	2.3				
KITCHEN (KVA):	0.0				
MISCELLANEOUS (KVA):	3.3				

1.5	0.0	0.1	0.0	0.0	3.2	CONNECTED LOAD (KVA):								12.6
						DEMAND LOAD (KVA):								12.6
PHASE A	6	53.1												
PHASE B	6	52.1				CONNECTED LOAD (AMPS):								52.6
KVA	AMPS					DEMAND LOAD (AMPS):								52.6
						AMPACITY 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.

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SEAL

REV	DATE	DESCRIPTION	BY	CHK

TEG PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE
POWER PLAN

DRAWING NO.
E101

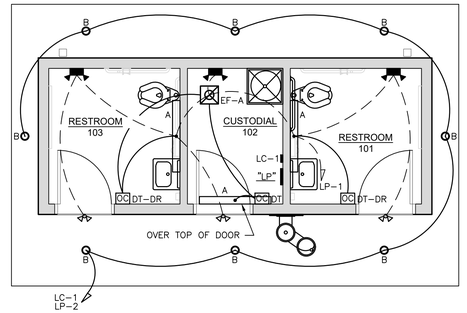
LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	VOLTS	WATTS	B.F.
A	4' WALL MOUNTED DIRECT/INDIRECT LED LIGHT FIXTURE, NO DIMMING, SW TOGETHER. PROVIDE WILLIAMS – WMAUD–4–L20U/40D–8–40–AF–UNV OR EQUAL	LED	120	35	–
B	4.5" SHALLOW PLENUM UL LISTED LED DOWN LIGHT FIXTURE WITH ANGLED TRIM. DIRECT ANGLED TRIM TO WASH BUILDING EXTERIOR. WILLIAMS – 4PR–TL–L20–8–4000K–A–WIDE OR EQUAL	LED	120	22	–
	WALL MOUNTED DOOR LIGHT WITH DIE–CAST ALUMINUM HOUSING. PROVIDE WITH UL LISTED, 90 MINUTE, EMERGENCY BACK–UP BATTERY SYSTEM. PROVIDE WITH UL LISTING FOR WET LOCATION MOUNTING. 2 LAMPS MEETING NFPA 101. PROVIDE SURELIGHTS#: SELW–25–BZ OR EQUAL	2–6W XENON WEDGE–BASED	120/ 6V	12W	N/A
	DECORATIVE EMERGENCY WALL PACK SURELIGHTS – AEL2–46–WH–SD	2–5.4W LED	120/ 6V	12	N/A

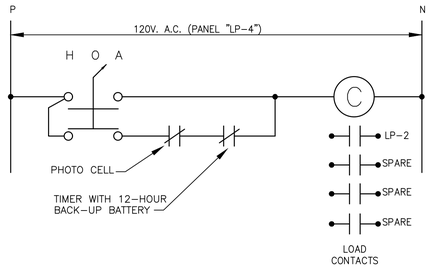
ELECTRICAL LEGEND (REFER TO MOUNTING HEIGHT SCHEDULE FOR MOUNTING HEIGHT INFORMATION)

- FLUORESCENT LIGHT FIXTURE, 2x4 FT.
- FLUORESCENT LIGHT FIXTURE NIGHT LIGHT
- FLUORESCENT STRIP LIGHT, 8 FT.
- FLUORESCENT STRIP LIGHT, 4 FT.
- FLUORESCENT LIGHT FIXTURE, 1x4 FT.
- FLUORESCENT LIGHT FIXTURE, 2'x2'
- POLE MOUNTED LIGHT FIXTURE, AS SPECIFIED (LIGHT)
- FLUORESCENT LIGHT FIXTURE WALL SCONCE
- OWNER SELECTED PENDANT MOUNTED
- EXTERIOR TWO–HEAD LIGHT
- EXTERIOR DOOR LIGHT
- LIGHT AND EXHAUST FAN COMBINATION
- EXHAUST FAN
- H.I.D. LIGHT FIXTURE, AS SPECIFIED.
- RECESSED OR SURFACE MOUNTED ROUND FIXTURE
- RECESSED NIGHT LIGHT
- WALL PACK
- BOLLARD EXTERIOR LIGHT
- EXTERIOR GROUND MOUNTED FLOOD LIGHT
- JUNCTION BOX
- TELEPHONE OUTLET WITH COVER SEE DETAIL FOR INSTALLATION INSTRUCTIONS.
- DATA/LAN OUTLET WITH COVER. SEE DETAIL FOR INSTALLATION INSTRUCTIONS.
- EXIT LIGHT
- EMERGENCY EXIT LIGHT
- EMERGENCY LIGHT WALL MOUNTED UNLESS NOTED OTHERWISE.
- DUPLEX RECEPTACLE, 20 AMP, 120 V., "SPEC. GRADE"
- 220 V. RECEPTACLE, MATCH APPLIANCE PLUG
- FLUSH MOUNTED FLOOR DUPLEX RECEPTACLE
- FLUSH MOUNTED FLOOR DATA/LAN OUTLET
- QUAD RECEPTACLE, 20 AMP, 120 V., "SPEC. GRADE"

- $ WALL SWITCH, SINGLE POLE, 20 AMP, 120 V., "SPEC. GRADE"
- $D WALL SWITCH, DIMMER, 20 AMP, 120 V., "SPEC. GRADE"
- $3 WALL SWITCH, 3–WAY, 20 AMP, 120 V., "SPEC. GRADE"
- $M MANUAL MOTOR STARTER, 20A, 120V
- $$ DOUBLE GANG WALL SWITCH, 20 AMP, 120V., "SPEC. GRADE"
- NON–FUSED DISCONNECT SWITCH, 240V, 30A, U.N.O.
- FUSED DISCONNECT SWITCH (FUSE – DISCONNECT FUSE SIZE; FRAME – DISCONNECT FRAME SIZE)
- P FIRE ALARM MANUAL PULL STATION
- FIRE ALARM HORN/STROBE
- FIRE ALARM STROBE
- S SMOKE DETECTOR
- H HEAT DETECTOR, CEILING MOUNTED
- SD DUCT SMOKE DETECTOR
- FACP FIRE ALARM CONTROL PANEL, FLUSH MOUNTED.
- GROUND – EXTEND AND CONNECT TO APPROVED GROUND
- ELECTRICAL PANEL – SURFACE MOUNTED.
- ELECTRICAL PANEL – FLUSH MOUNTED.
- UNSWITCHED CIRCUIT, 2#12 & 1 #12 G. IN 3/4" C., U.N.O.
- SWITCHED CIRCUIT
- ?–# PANEL NAME–CIRCUIT #
- WP WEATHER PROOF
- GFI GROUND FAULT INTERRUPTER
- A.F.F. ABOVE FINISHED FLOOR
- NL NIGHT LIGHT
- U.N.O. UNLESS NOTED OTHERWISE
- IG ISOLATED GROUND
- LC LIGHTING CONTACTOR
- EWC ELECTRIC WATER COOLER
- AC ABOVE COUNTER
- BC BELOW COUNTER
- EX EXISTING
- ETR EXISTING TO REMAIN
- ER EXISTING TO BE RELOCATED



102.1 LIGHTING PLAN
SCALE: 1/4" = 1'



LIGHTING CONTACTOR DETAIL
SCALE: NTS

OC. SENSOR SCHEDULE

TYPE	DESCRIPTION
PIR	PASSIVE INFRARED –WALL MOUNT – WATT STOPPER #PW–100 – HUBBLE #LH–IR –CEILING MOUNT – WATT STOPPER #CI–305 W/BZ–150 PPAK – HUBBLE OMNI–IR–UVPP
US	ULTRASONIC –WALL MOUNT – WATT STOPPER #UW–100 – HUBBLE #LH–US –CEILING MOUNT – WATT STOPPER #UT–305 W/BZ–150 PPAK – HUBBLE #OMNI–US–UVPP
DT DT–DR	DUAL TECHNOLOGY –WALL MOUNT – WATT STOPPER #DW–100 – HUBBLE #LH–MT –WALL MOUNT DUAL RELAY – WATT STOPPER #DW–200 – HUBBLE #LH–MT–D2 –CEILING MOUNT – WATT STOPPER #DT–305 W/BZ–150 PPAK – HUBBLE #OMNI–DT–UVPP
TIME	PUSH BUTTON TIMER –WALL MOUNT – WATT STOPPER #TS–400 – HUBBLE #TD–200

* ALL OCCUPANCY SENSORS SPECIFICED USE 120/277V AC POWER. EQUALS ACCEPTED, MAKE AND MODEL USED TO SET STANDARD OF PERFORMANCE & QUALITY.

* ALL OCCUPANCY SENSORS INSTALLED ARE WALL MOUNTED, CIRCUITED PER PLANS.

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

ENERGY CODE: PRESCRIPTIVE ☒ PERFORMANCE ☐
ASHRAE 90.1: PRESCRIPTIVE ☐ PERFORMANCE ☐

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)
NUMBER OF LAMPS IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)
BALLAST TYPE IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)
NUMBER OF BALLASTS IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)
TOTAL WATTAGE PER FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)

TOTAL INTERIOR WATTAGE SPECIFIED .VS. ALLOWED: *** 120W VS. 171W ***
EXTERIOR LIGHTING ZONE: **3**
EXTERIOR LIGHTING WATTAGE SPECIFIED .VS. ALLOWED: **** 160W VS. 183W ****

ADDITIONAL PRESCRIPTIVE COMPLIANCE

- ☐ C406.2 More Efficient HVAC Equipment Performance
- ☒ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On–Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the North Carolina Building Code, Energy Conservation Code.

SIGNED: D. Wilson Pou
NAME: D. WILSON POU, P.E.
TITLE: PROFESSIONAL ENGINEER

ES Project No: ES240102

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SEAL

REV	DATE	DESCRIPTION	BY	CHK

TEG PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE

Greenville NORTH CAROLINA

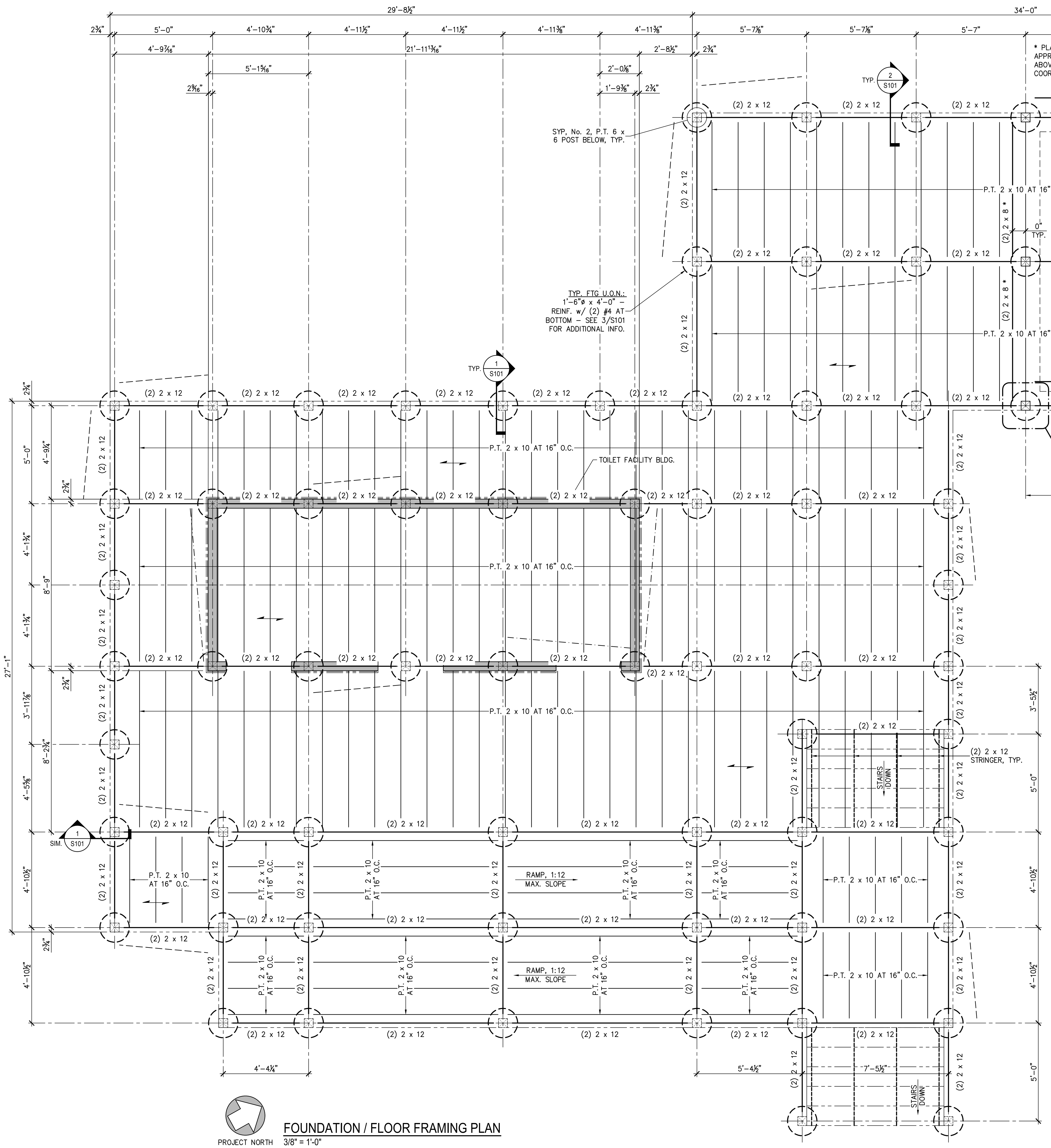
WILDWOOD PARK
PARTF IMPROVEMENTS

DRAWING TITLE

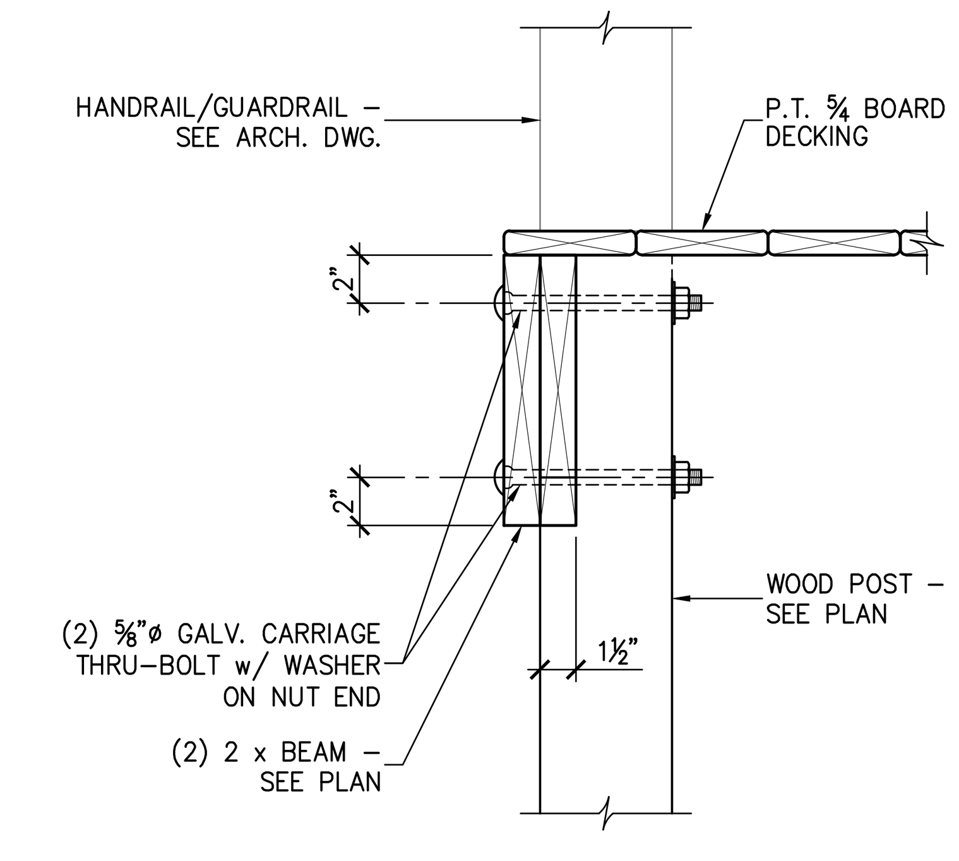
LIGHTING PLAN

DRAWING NO.

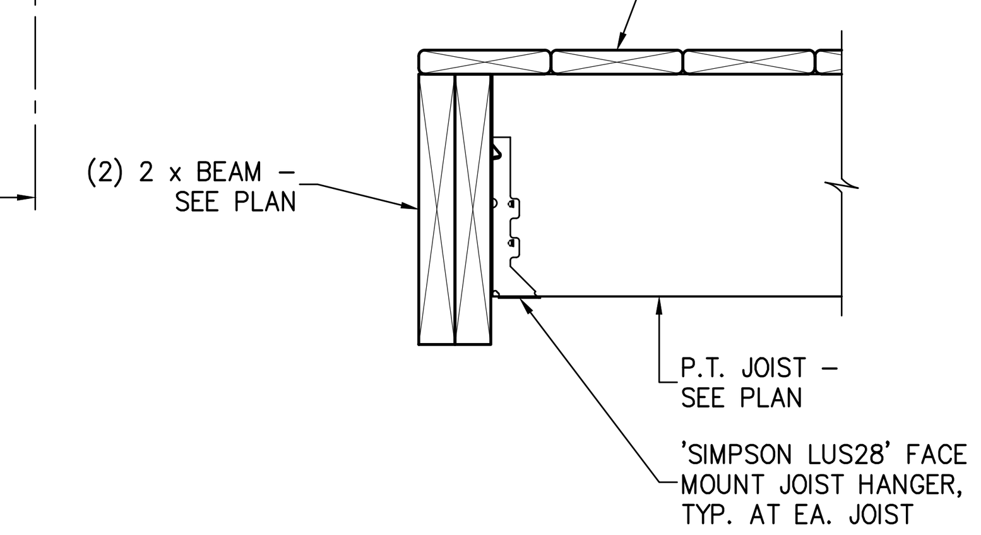
E102



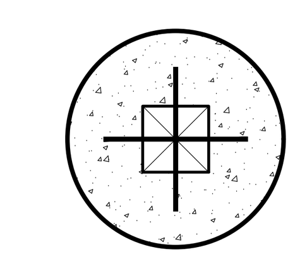
FOUNDATION / FLOOR FRAMING PLAN
3/8" = 1'-0"



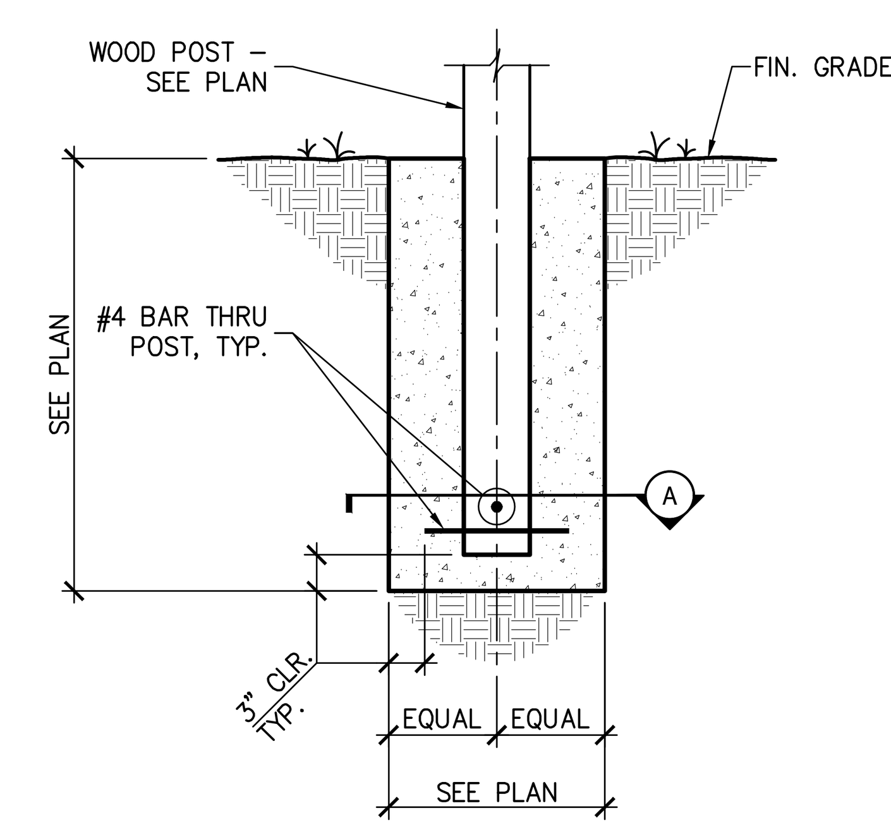
1 / S101 SECTION - TYP. GIRDER/ BEAM CONN. TO WOOD POST
1 1/2" = 1'-0"



2 / S101 SECTION - TYP. JOIST CONN. TO WOOD POST
1 1/2" = 1'-0"



SECTION 'A'



3 / S101 SECTION - TYP. POST FTG.
N.T.S.

FOUNDATION/FLOOR FRAMING PLAN LEGEND

Symbol	Description
(dashed circle)	DENOTES WOOD COLUMN CONCRETE FOOTING – SEE PLAN FOR ADDITIONAL INFORMATION
(dotted square)	6 x 6 P.T. WOOD POST BELOW DECK LEVEL – SEE PLAN FOR ADDITIONAL INFORMATION
(crossed square)	6 x 6 P.T. WOOD POST ABOVE DECK LEVEL – SEE PLAN FOR ADDITIONAL INFORMATION
(hatched wall)	DENOTES A LOAD BEARING STUD WALL – SEE FOUNDATION DETAILS FOR ADDITIONAL INFORMATION
(dashed line)	DENOTES DIAGONAL BRACING BETWEEN POSTS FROM GRADE LEVEL TO UNDERSIDE OF DECK – FASTEN TO POSTS WITH (1) 5/8"ø CARRIAGE BOLT AT EACH END OF BRACE
(dash-dot line)	DENOTES DIAGONAL BRACING BETWEEN POSTS FROM SILL PLATE TO TOP PLATE OF TOILET BUILDING – FASTEN TO POSTS WITH (1) 5/8"ø CARRIAGE BOLT AT EACH END OF BRACE
(arrow)	DENOTES DIRECTION OF DECK SPAN
U.O.N.	DENOTES 'UNLESS OTHERWISE NOTED'

FOUNDATION/FLOOR FRAMING PLAN NOTES:

1. SEE SHEET S102 FOR GENERAL STRUCTURAL NOTES & SCHEDULES.
2. DIMENSIONS SHOWN WITH '±' ARE EXISTING AND ARE SUBJECT TO FIELD VERIFICATION PRIOR TO ACCEPTANCE AS VALID.
3. COORDINATE FLOOR OPENINGS WITH MECHANICAL AND PLUMBING DRAWINGS.

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SEAL
NORTH CAROLINA PROFESSIONAL SEAL 17348 ENGINEER

REV	DATE	DESCRIPTION	BY	CHK

TEG PROJECT NO.
ARCHITECT PROJECT NO.
PROJECT TITLE

Greenville NORTH CAROLINA

WILDWOOD PARK PARTF IMPROVEMENTS

DRAWING TITLE

FOUNDATION PLAN, PLAN LEGEND, PLAN NOTES, SECTIONS & DETAILS

DRAWING NO.

S101

GENERAL STRUCTURAL NOTES:

1. **GENERAL NOTES**
   - 1.1. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
   - 1.2. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS NOT HEREIN INDICATED.
   - 1.3. COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS.
   - 1.4. VERIFY ALL FLOOR AND ROOF OPENING SIZES AND LOCATIONS, EQUIPMENT PAD SIZES AND LOCATIONS, ANCHOR BOLT LAYOUTS, ETCETERA, WITH EQUIPMENT SELECTED.
   - 1.5. VERIFY STRUCTURE LOCATION AND ORIENTATION WITH OWNER AND LOT SETBACK REQUIREMENTS BEFORE ANY CONSTRUCTION IS STARTED ON THE PROJECT.
   - 1.6. CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION DIMENSIONS WHICH IMPACT NEW CONSTRUCTION PRIOR TO FABRICATING ANY REBAR, STEEL, TRUSSES, ETCETERA.
   - 1.7. DO NOT CUT, NOTCH, OR OTHERWISE MODIFY ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
   - 1.8. CUTTING OF STEEL MEMBERS AND INSTALLATION OF HOLES IN STEEL MEMBERS SHALL BE DONE BY CUTTING OR DRILLING. DO NOT USE TORCHES FOR CUTTING UNLESS APPROVED BY THE ENGINEER OF RECORD.
   - 1.9. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL SHORING REQUIRED TO SUPPORT NEW AND EXISTING STRUCTURAL ELEMENTS.
   - 1.10. THE STRUCTURE IS DESIGNED FOR 125 WIND VELOCITY AND 100 PSF UNIFORM LIVE LOAD (FLOOR).

2. **FOUNDATION**
   - 2.1. ALL FOOTINGS SHALL BE ON UNDISTURBED SOIL OR 98% COMPACTED FILL PER ASTM D698.
   - 2.2. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL.
   - 2.3. EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES AND BOTTOMS TEMPORARILY LINED WITH 6 MIL. POLYETHYLENE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HRS OF THE EXCAVATION OF THE FOOTING.
   - 2.4. ADVERSE FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION SUCH AS SOFT SOILS, ORGANIC MATTER, ETCETERA, SHALL BE REPORTED TO THE ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
   - 2.5. IF UNDERMINING OF FOOTINGS OCCURS, FILL VOIDS WITH LEAN CONCRETE MIX. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.

3. **CONCRETE**
   - 3.1. ALL PLACED CONCRETE, SHALL HAVE NORMAL WEIGHT COARSE AGGREGATES UNLESS OTHERWISE NOTED, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH ($f'c$) AT 28 DAYS AS SHOWN ON THE CONCRETE MATERIALS SCHEDULE.
   - 3.2. GROUT FOR BASE PLATES SHALL BE NON-METTALIC, NON-SHRINKABLE GROUT, AND SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH, AT 28 DAYS, OF 5000 PSI.
   - 3.3. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
   - 3.4. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH ¾" x 45 DEGREE CHAMFER, UNLESS OTHERWISE NOTED.
   - 3.5. HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS, AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED, WITH A CLASS B TENSION SPLICE, AT CORNERS AND INTERSECTIONS. TOP BAR CRITERIA SHALL APPLY IF 12" OR MORE OF FRESH CONCRETE IS PLACED BELOW BAR.
   - 3.6. SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING / DAMPPROOFING DETAILS.
   - 3.7. ALL DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   - 3.8. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF FLOOR FINISHES.
   - 3.9. SEE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR ADDITIONAL WALL / SLAB OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
   - 3.10. ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
   - 3.11. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
   - 3.12. DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
   - 3.13. IN-PLACE REINFORCING STEEL, SHALL BE REVIEWED BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
   - 3.14. AT CORNERS AND INTERSECTIONS, PROVIDE BARS OF THE SAME NUMBER AND SIZE AS THE LONGITUDINAL BARS IN THE FOOTING.
   - 3.15. CONCRETE MATERIALS SHALL BE AS FOLLOWS:
     - 3.15.1. USE TYPE I/II PORTLAND CEMENT CONFORMING TO ASTM C150
     - 3.15.2. AGGREGATE SHALL CONFORM TO ASTM C33 (FINE AND COURSE AGGREGATES)
     - 3.15.3. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260
     - 3.15.4. PLASTICIZER CAN BE USED TO IMPROVE WORKABILITY IF REQUIRED
   - 3.16. CONCRETE MIX DESIGN:
     - 3.16.1. MAXIMUM WATER/CEMENT RATIO – 0.50 FOR SLAB, 0.55 FOR FOOTINGS AND OTHER CONCRETE UNLESS OTHERWISE NOTED.
     - 3.16.2. SLUMP SHALL BE 4 INCHES TO 6 INCHES (WITHOUT PLASTICIZER)
     - 3.16.3. AIR ENTRAINMENT SHALL BE 4% TO 6% (EXTERIOR CONCRETE)
   - 3.17. CONCRETE SLAB SHALL BE CURED USING A WATER-BASED CURING COMPOUND. CURING COMPOUND SHALL BE APPLIED TO ALL HORIZONTAL SURFACES. ONCE THE SURFACE WATER DISSIPATES AND THE SURFACE IS NOT MARRED BY WALKING, APPLY PER MANUFACTURER'S SPECIFICATIONS.
   - 3.18. CONDUCT SLUMP, AIR, AND STRENGTH TESTS OF CONCRETE IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:
     - 3.18.1. SECURE SAMPLES IN ACCORDANCE WITH "METHOD OF SAMPLING FRESH CONCRETE" (ASTM C 172). MOLD AND CURE FIVE SPECIMENS FROM EACH SAMPLE IN ACCORDANCE WITH "METHOD OF MAKING ANS CURING CONCRETE COMPRESSION AND FLEXURE SPECIMENS IN THE FIELD" (ASTM C 31). FIVE SPECIMENS COMPRISE ONE TEST. TEST TWO SPECIMENS AT 7 DAYS (ASTM C 39). TEST TWO SPECIMENS AT 28 DAYS IN ACCORDANCE WITH "METHOD OF TEST FOR COMPRESSIVE STRENGTH OF MOLDED CONCRETE CYLINDERS" (ASTM C 39). TEST EVALUATION SHALL BE CONDUCTED IN ACCORDANCE WITH PROVISIONS OF ACI 318-14. KEEP ONE SPECIMEN IN RESERVE.
     - 3.18.2. MAKE ONE STRENGTH TEST FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF FOR EACH MIX DESIGN OF CONCRETE PLACED IN ONE DAY, EXCEPT THAT IN NO CASE SHALL A GIVEN MIX DESIGN BE REPRESENTED BY LESS THAN THREE TESTS.

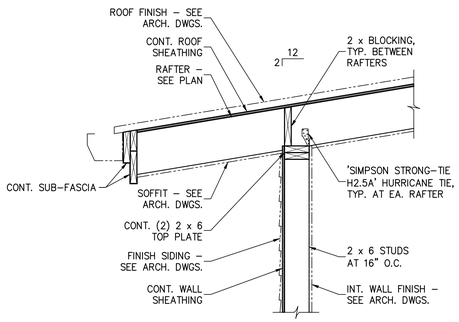
4. **WOOD FRAMING**
   - 4.1. ALL STRUCTURAL WOOD MEMBERS SHALL BE No. 2 SOUTHERN YELLOW PINE, 19% MAXIMUM MOISTURE CONTENT, UNLESS OTHERWISE NOTED. INTERIOR NON BEARING PARTITIONS MAY BE No. 2 SPRUCE (SPF).
   - 4.2. ALL WOOD FRAMING, DIRECTLY EXPOSED TO WEATHER, OR IN DIRECT CONTACT WITH MASONRY, SOIL OR CONCRETE, SHALL BE PRESSURE TREATED, UNLESS OTHERWISE NOTED.
   - 4.3. ALL LVLs, DIRECTLY EXPOSED TO WEATHER, OR IN DIRECT CONTACT WITH MASONRY, SOIL OR CONCRETE, SHALL BE EXTERIOR GRADE, UNLESS NOTED OTHERWISE.
   - 4.4. ALL METAL CONNECTORS SHALL BE HOT DIP GALVANIZED. INSTALL ALL CONNECTORS PER THE MANUFACTURER'S RECOMMENDATIONS. METAL CONNECTOR DESIGNATIONS INDICATED ON PLANS, ARE FOR 'SIMPSON STRONG-TIE' ANCHORS. ANCHORS FROM OTHER MANUFACTURERS MAY BE USED, PROVIDED THEY HAVE EQUIVALENT STRENGTH.
   - 4.5. ALL NAILED CONNECTIONS SHALL BE IN ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE TABLE 2304.10.1, SEE 2018 NCBC – FASTENING SCHEDULE, UNLESS OTHERWISE NOTED.
   - 4.6. FRAMING CONNECTIONS THAT ARE BOLTED OR SCREWED, SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD.
   - 4.7. PROVIDE STUDS AND HEADERS AT ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS AS FOLLOWS, UNLESS OTHERWISE NOTED:

OPENING WIDTH	STUDS	HEADER
0'-0" TO 6'-0"	2 KING STUDS, 1 JACK STUD	(2) 2 x 10 AT 2 x 4 WALL (3) 2 x 10 AT 2 x 6 WALL
6'-1" TO 8'-0"	2 KING STUDS, 2 JACK STUDS	(2) 2 x 10 AT 2 x 4 WALL (3) 2 x 10 AT 2 x 6 WALL
8'-1" TO 12'-0"	3 KING STUDS, 2 JACK STUDS	(2) 2 x 12 AT 2 x 4 WALL (3) 2 x 12 AT 2 x 6 WALL

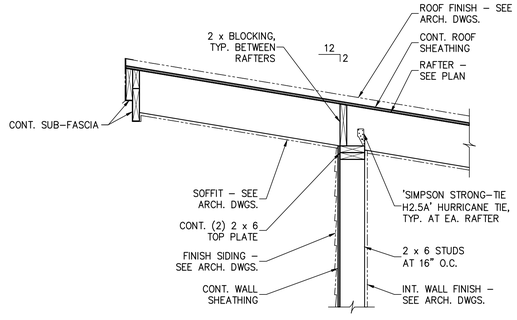
5. **WOOD DECKING/SHEATHING**
   - 5.1. WALL SHEATHING SHALL BE 15/32" PLYWOOD OR ORIENTED STRAND BOARD (OSB), UNLESS OTHERWISE NOTED. ATTACH WALL SHEATHING TO FRAMING WITH 10d NAILS AT 4" O.C. AT PANEL EDGES AND 12" O.C. AT INTERIOR MEMBERS. PROVIDE SOLID BLOCKING AT PANEL EDGES (48" O.C.).
   - 5.2. ROOF SHEATHING SHALL BE 19/32" PLYWOOD OR ORIENTED STRAND BOARD (OSB), UNLESS OTHERWISE NOTED. ATTACH ROOF SHEATHING TO FRAMING WITH 8d NAILS AT 4" O.C. AT PANEL EDGES AND 12" O.C. AT INTERIOR MEMBERS.

EXPOSED CONCRETE FINISH SCHEDULE

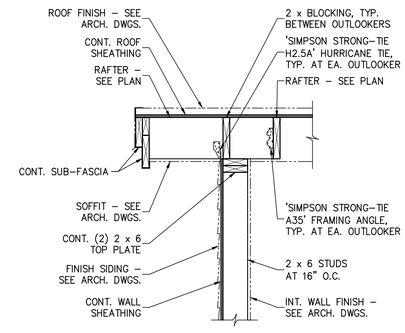
AREA	FINISH	COMMENTS
ALL EXTERIOR WALLS, CURBS, UNLESS OTHERWISE NOTED	SMOOTH FORM	–
EXTERIOR CONCRETE PAVEMENT, SIDEWALKS	COARSE BROOM	–
SLAB ON GRADE	TROWEL	–
EXT. EQUIP. PADS	COARSE BROOM	–
EXTERIOR STAIRS	COARSE BROOM	–
–	–	–



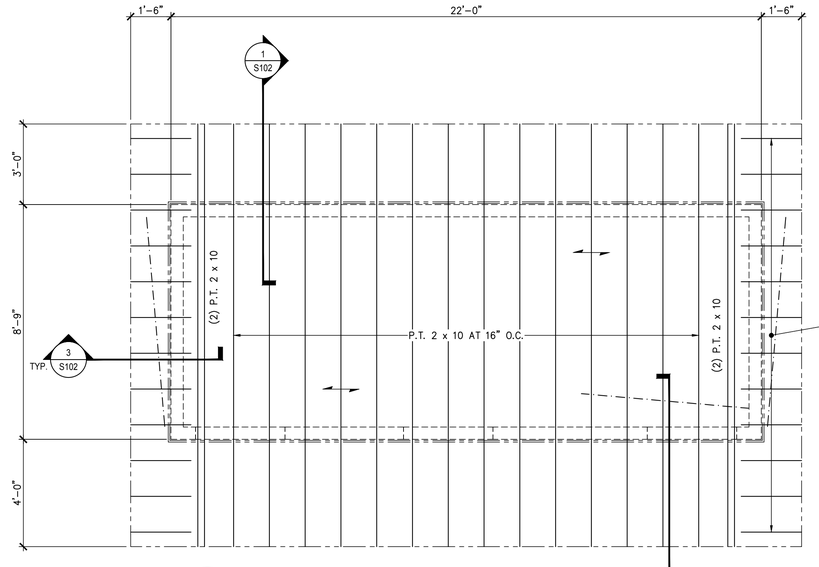
1 S102 SECTION - TYP. LOW EAVE RAFTER BRG.
N.T.S.



2 S102 SECTION - TYP. HIGH EAVE RAFTER BRG.
N.T.S.



3 S102 SECTION - TYP. END WALL OUTLOOKER BRG.
N.T.S.



PROJECT NORTH

ROOF FRAMING PLAN - TOILET BUILDING
3/8" = 1'-0"

ROOF FRAMING PLAN LEGEND	
	DENOTES DIRECTION OF DECK SPAN
U.O.N.	DENOTES 'UNLESS OTHERWISE NOTED'

ROOF FRAMING PLAN NOTES:

1. SEE THIS SHEET GENERAL STRUCTURAL NOTES AND SCHEDULES.
2. DIMENSIONS SHOWN WITH '±' ARE EXISTING AND ARE SUBJECT TO FIELD VERIFICATION PRIOR TO ACCEPTANCE AS VALID.
3. COORDINATE ROOF OPENINGS WITH MECHANICAL AND PLUMBING DRAWINGS.

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SEAL
NORTH CAROLINA PROFESSIONAL SEAL 17348 ENGINEER
SCOTT ALLEN ROY

REV	DESCRIPTION	DATE	BY	CHK

TEG PROJECT NO.

ARCHITECT PROJECT NO.

PROJECT TITLE
Greenville NORTH CAROLINA
WILDWOOD PARK PARTF IMPROVEMENTS

DRAWING TITLE
ROOF FRAMING PLAN – TOILET BLDG., PLAN LEGEND, PLAN NOTES, SECTIONS & DETAILS

DRAWING NO.
S102