



# WILDWOOD PARK WELCOME CENTER AND PLAYGROUND SITE

TEG PROJECT NO. 20220005

ISSUED FOR BID  
MAY 27, 2022



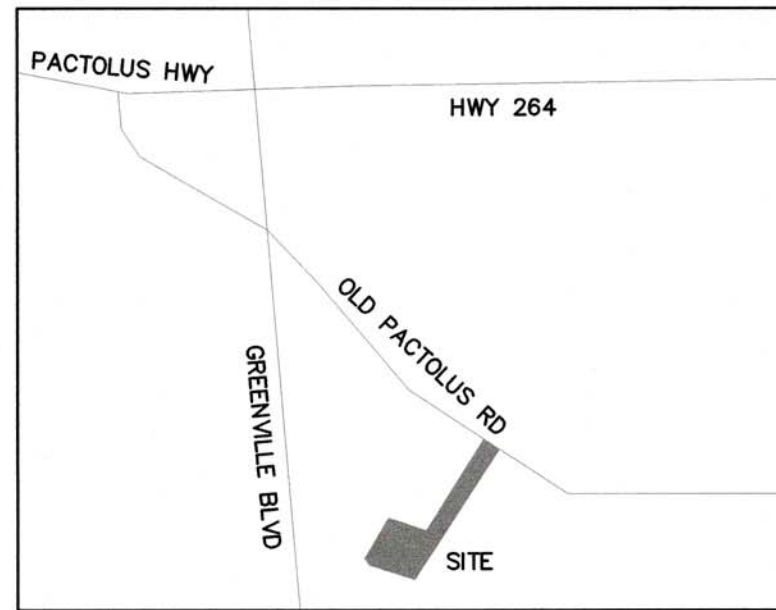
**RPA ENGINEERING, P.A.**  
Structural Engineering Solutions  
Engineering License Certificate No. C-2734  
102 Regency Blvd. Phone : 252-321-6027  
Suite A1 Fax : 252-355-2179  
Greenville, NC 27834



## DRAWING INDEX

TITLE/GENERAL	SITE (CIVIL ENGINEERING & LANDSCAPE ARCHITECTURAL)	ARCHITECTURAL	INTERIORS	STRUCTURAL	PLUMBING	MECHANICAL	ELECTRICAL
TITLE SHEET	L0.0 COMPOSITE PLAN L0.1 DEMOLITION, TREE PROTECTION, EROSION & SEDIMENTATION CONTROL PLAN L1.1 LAYOUT & MATERIALS PLAN AND PAVING ENLARGEMENTS L2.1 GRADING & DRAINAGE PLAN L3.0 CONSTRUCTION SEQUENCE, GRADING AND EROSION CONTROL NOTES L3.1 SELF INSPECTION, RECORD KEEPING AND REPORTING L3.2 GROUND STABILIZATION AND MATERIALS HANDLING L3.3 TREE PROTECTION, EROSION CONTROL AND STORM DRAINAGE DETAILS L3.4 SITE DETAILS L4.1 PLANTING PLAN AND SCHEDULE L4.2 PLANTING NOTES AND DETAILS C3.0 COMPOSITE UTILITY PLAN C3.1 UTILITY PLAN C4.1 UTILITY DETAILS - WATER C5.1 UTILITY DETAILS - SEWER	BC31.1 BUILDING CODE SUMMARY A1.1 FLOOR PLAN A2.1 REFLECTED CEILING PLAN / ROOF PLAN A3.1 EXTERIOR ELEVATIONS A4.1 INTERIOR ELEVATIONS A5.1 SECTIONS A6.1 SECTIONS A7.1 SECTIONS A8.1 SECTIONS	N/A	S1.1 FOUNDATION PLAN, PLAN LEGEND, & PLAN NOTES S1.2 LOW ROOF FRAMING PLAN & SECTIONS S1.3 HIGH ROOF FRAMING PLAN & SECTIONS S2.1 FOUNDATION SECTIONS & DETAILS S2.2 FOUNDATION DETAILS S3.1 STRUCT. DESIGN CRITERIA, GEN. STRUCT. NOTES, SCHEDULES & ROOF SECTION	P0.1 SCHEDULES AND DETAILS P1.1 WASTE PLAN P1.2 WATER PLAN	M1.1 MECHANICAL PLAN	E0.1 SCHEDULES & RISER E0.2 ELECTRICAL SITE PLAN E1.1 POWER PLAN E2.1 LIGHTING PLAN
			VENDOR	FIRE PROTECTION N/A			





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

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

L - 4509

LEGEND

- ECM = EXISTING CONCRETE MONUMENT
- EIP = EXISTING IRON PIPE
- EIS = EXISTING IRON STAKE
- NIP = NEW IRON PIPE
- NPK = NEW PK NAIL
- AC = ASBESTOS CONCRETE PIPE
- CI = CAST IRON
- CLF = CHAIN LINK FENCE
- CSW = CONCRETE SIDEWALK
- DIP = DUCTILE IRON PIPE
- GW = GUY WIRE
- MH = MANHOLE
- OT = OAK TREE
- PCT = PECAN TREE
- PP = POWER POLE
- RCP = REINFORCED CONCRETE PIPE
- SI = SIGN
- TO = TERRA COTA PIPE
- VC = VITRIFIED CONCRETE PIPE
- WV = WATER VALVE
- = NOT TO SCALE
- o = NO POINT SET
- E = OVERHEAD ELECTRIC
- SS = SEWER LINE
- SD = STORM DRAIN
- W = WATER LINE

SITE DATA	
(a) TOTAL AREA IN SITE	101.36 ACRES
(b) TOTAL AREA DISTURBED	1.76 ACRES
(c) CURRENT ZONING	CH
LAND USE CLASSIFICATION	2- PUBLIC PARK
(d) SUBDIVISION NAME, BLOCK & LOT	N/A
TAX MAP AND PARCEL NUMBER	86710 / 60-174
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	1,084 SF
(i) BUILDING LOT COVERAGE (EXISTING FOR ENTIRE SITE)	40,740 SF
BUILDING LOT COVERAGE (EXISTING FOR PROJECT LIMITS)	13,580 SF
BUILDING LOT COVERAGE (PROPOSED)	2,182 SF
(j) BUILDING HEIGHT (FEET & STORIES)	14'-2"
(k) TOTAL NUMBER OF PARKING SPACES (EXISTING (GRAVEL))	135 (INCLUDING 5 ADA SPACES)
TOTAL NUMBER OF PARKING SPACES (PROVIDED)	135 (EXISTING)
(l) TOTAL NUMBER OF ACCESSIBLE PARKING SPACES (EXISTING)	5
TOTAL NUMBER OF ACCESSIBLE PARKING SPACES (REQUIRED)	5
(m) TOTAL SQUARE FEET OF IMPERVIOUS AREA (EXISTING)	66,200
TOTAL SQUARE FEET OF IMPERVIOUS AREA (PROPOSED)	60,845

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
NC DOT	Vegetation
Traffic Services	Notes

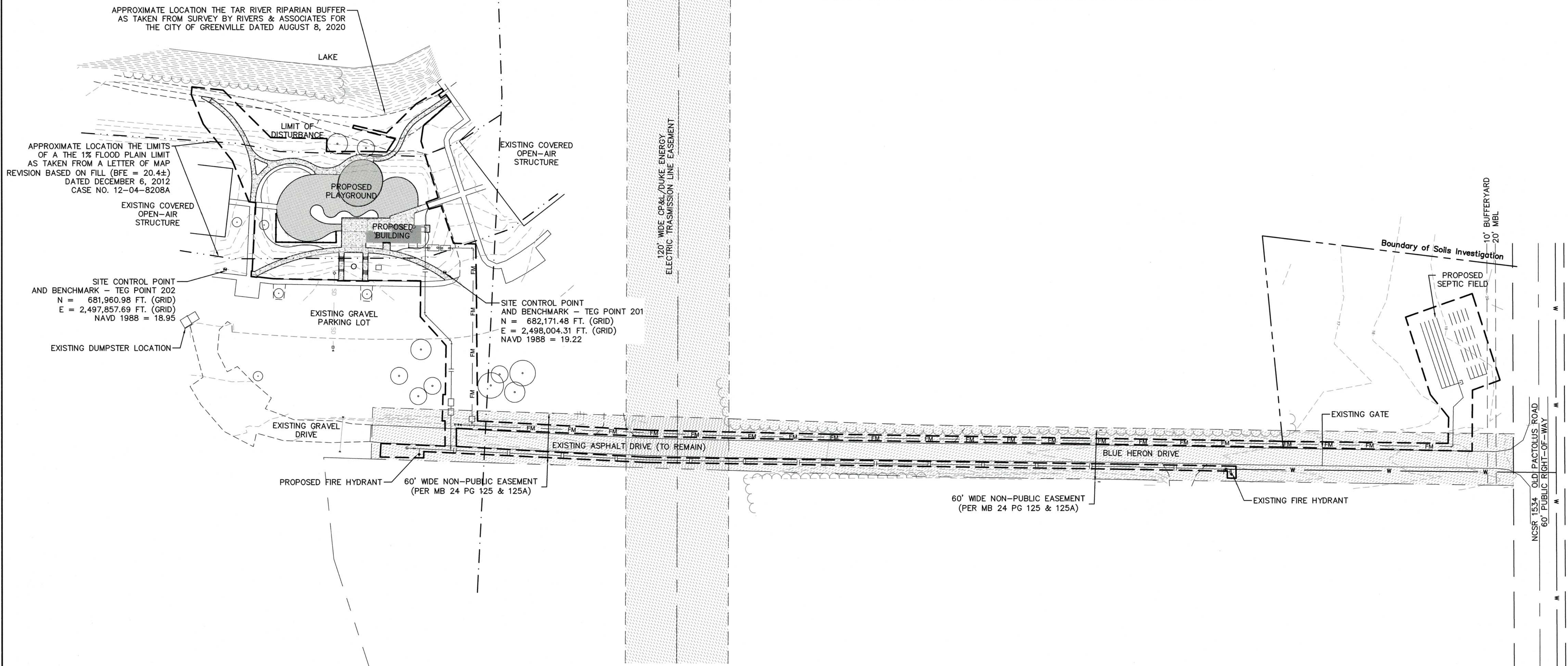
\* Site plan approval ONLY. Engineer/Architect/Landscape Architect/Surveyor shall be responsible for adequacy of design, errors, omissions in the plans. All plans shall meet all specifications, standards and applicable regulations.

**THE EAST GROUP**  
 Engineering Architecture  
 Surveying Technology

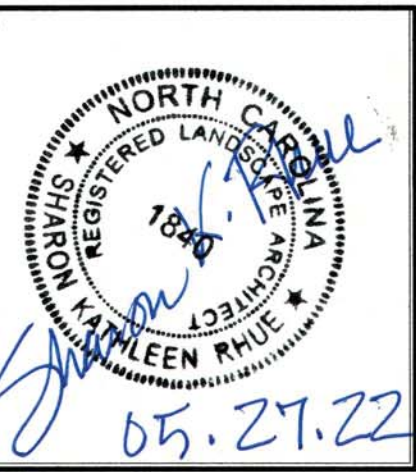
Corporate Office  
 324 Evans Street  
 Greenville, NC 27858  
 Tel 252.758.3748  
 Fax 252.830.9554

Branch Office  
 4325 Lake Boone Trail, Suite 311  
 Raleigh, NC 27607  
 Tel 919.784.9330  
 Fax 919.784.9331

NC Engineering License No. C-0306  
 NC Architectural License No. 50213  
 NC Landscape Architectural License No. C-427



This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. © Copyright, The East Group, P.A. 2021.



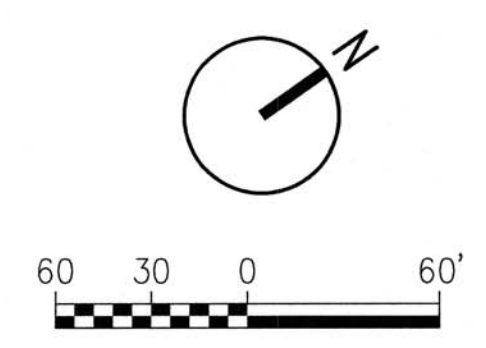
**PRELIMINARY**  
 DO NOT USE FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
A	04/29/22	85% OWNER REVIEW
B	05/13/22	ISSUE FOR C.O.G. SITE PLAN REVIEW
C	05/27/22	ISSUE FOR BID

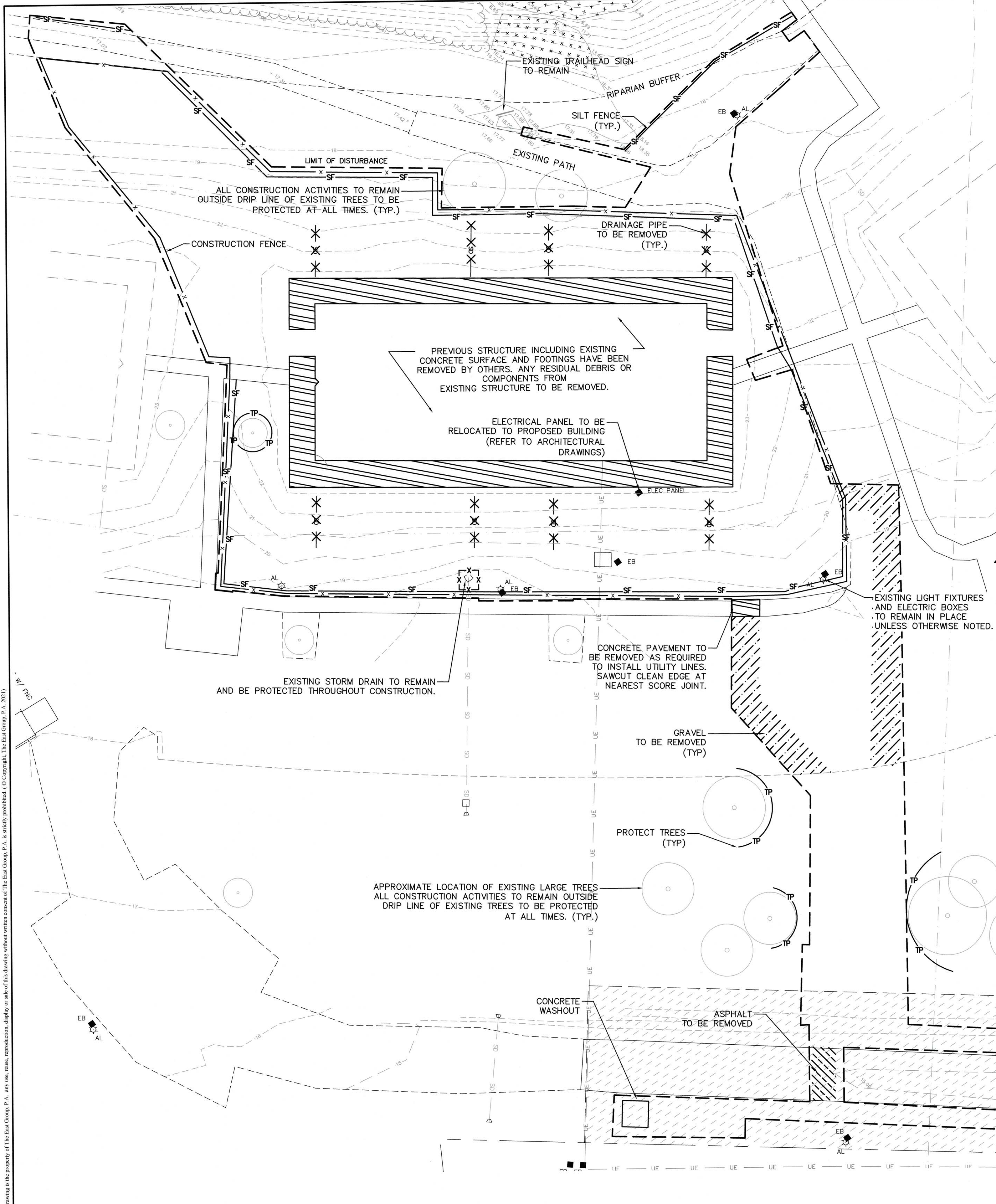
PROJECT TITLE  
**Greenville**  
 NORTH CAROLINA  
 WILDWOOD PARK WELCOME CENTER & PLAYGROUND SITE

DRAWING TITLE  
 COMPOSITE PLAN

DRAWING NO.  
**L0.0**





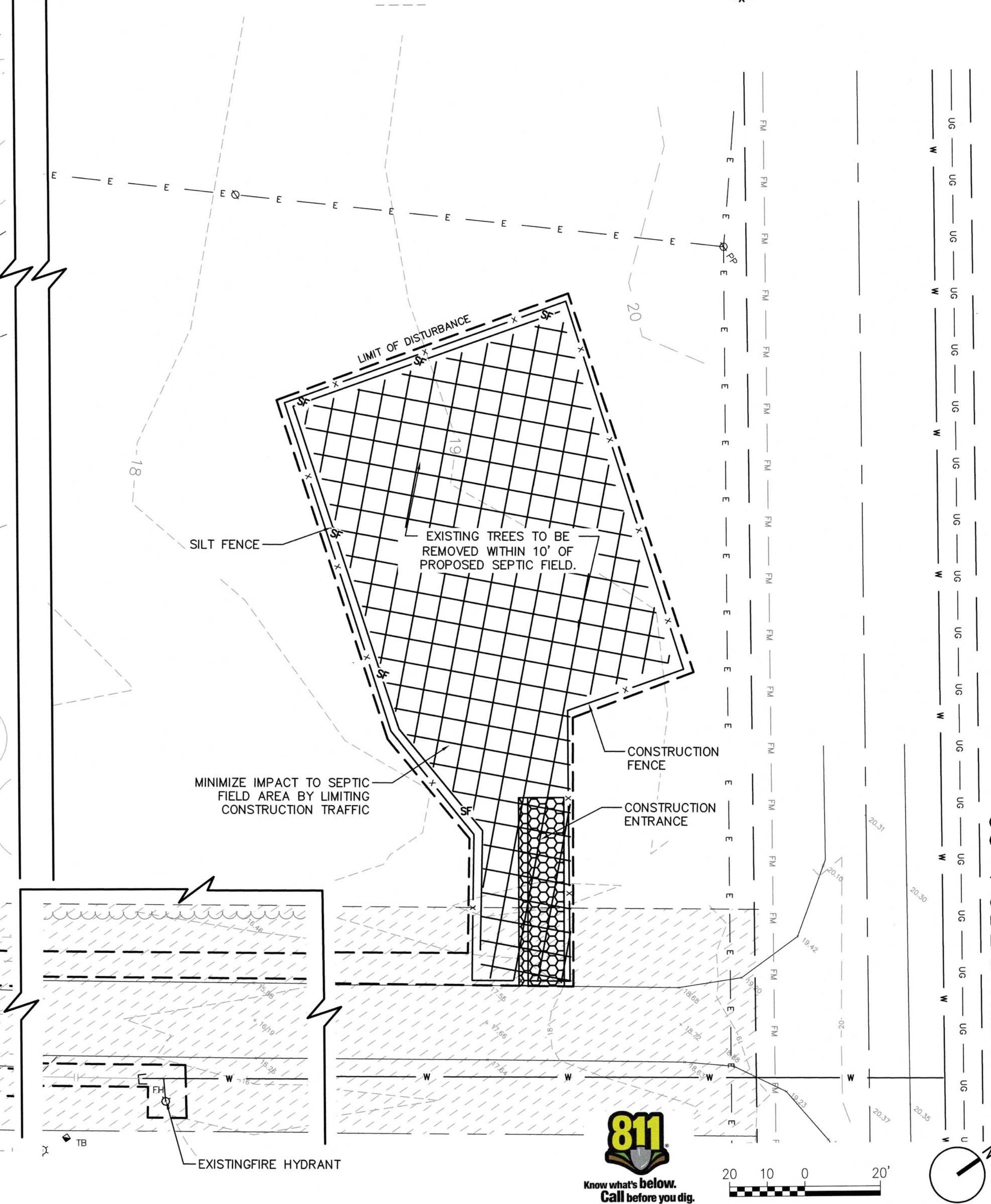


**EXISTING MATERIALS LEGEND:**

AL	AREA LIGHT	RPZ	REDUCED PRESSURE ZONE
ASW	ASPHALT WALK	SD	STORM DRAIN
BNCH	BENCH	SI	SIGN
CP	CONCRETE PAD	SMH	SANITARY MANHOLE
CIP	CAST IRON PIPE	SS	SANITARY SEWER
CSW	CONCRETE SIDEWALK	TBM	TEMPORARY BENCH MARK
DI	DROP INLET	TB	TELEPHONE BOX
EB	ELECTRIC BOX	TYP.	TYPICAL
EIS	EXISTING IRON STAKE	UE	ELECTRIC
EMH	ELECTRICAL MANHOLE	UG	GAS
EPK	EXISTING PK NAIL	UGT	TELEPHONE/CABLE/FIBER OPTIC
EK	EXISTING	W	WATER
GDW	GRAVEL DRIVEWAY	WV	WATER VALVE
INV	INVERT	YI	YARD INLET
RCP	REINFORCED CONCRETE PIPE		EXISTING CONTOUR

**DEMOLITION & EROSION CONTROL LEGEND:**

	PROJECT LIMIT
	REMOVE CONCRETE
	REMOVE ASPHALT
	REMOVE GRAVEL
	TREE PROTECTION
	SILT FENCE
	CONSTRUCTION FENCE
	INLET PROTECTION

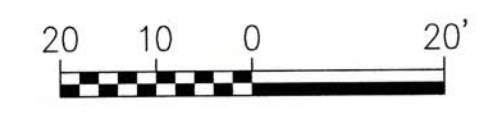


**PRELIMINARY**  
 DO NOT USE FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK
A	04.28.22	50% OWNER REVIEW		
B	05.13.22	ISSUE FOR C.O.C. SITE PLAN REVIEW		
C	05.27.22	ISSUE FOR BID		

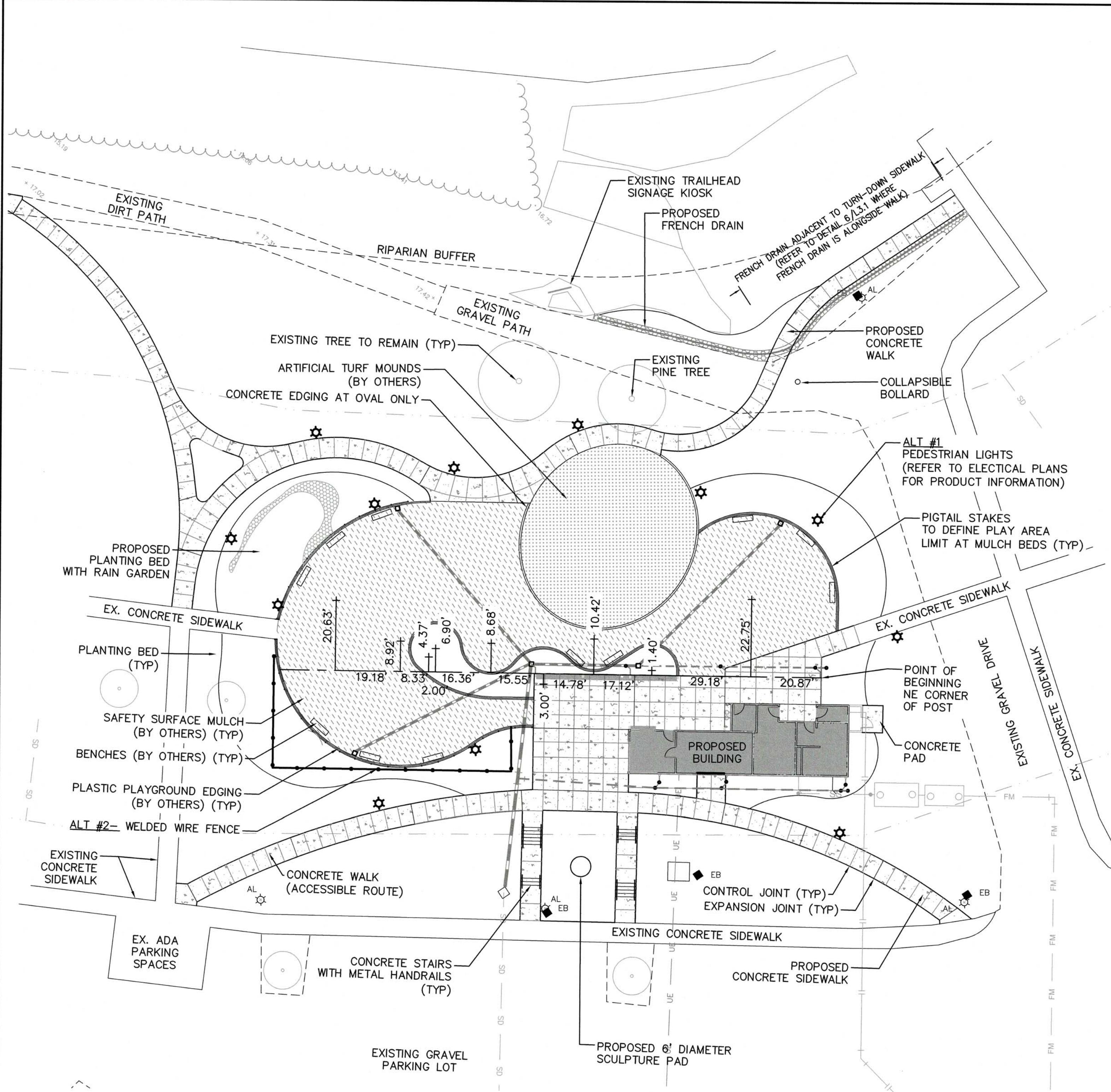
PROJECT NO. 60 PUBLIC RIGHT-OF-WAY  
 CLIENT PROJECT NO.  
 PROJECT TITLE  
**Greenville**  
 NORTH CAROLINA  
 WILDWOOD PARK  
 WELCOME CENTER  
 & PLAYGROUND SITE  
 DRAWING TITLE  
 EXISTING CONDITIONS,  
 DEMOLITION,  
 TREE PROTECTION,  
 EROSION & SEDIMENT  
 CONTROL PLAN

DRAWING NO. **L0.1**

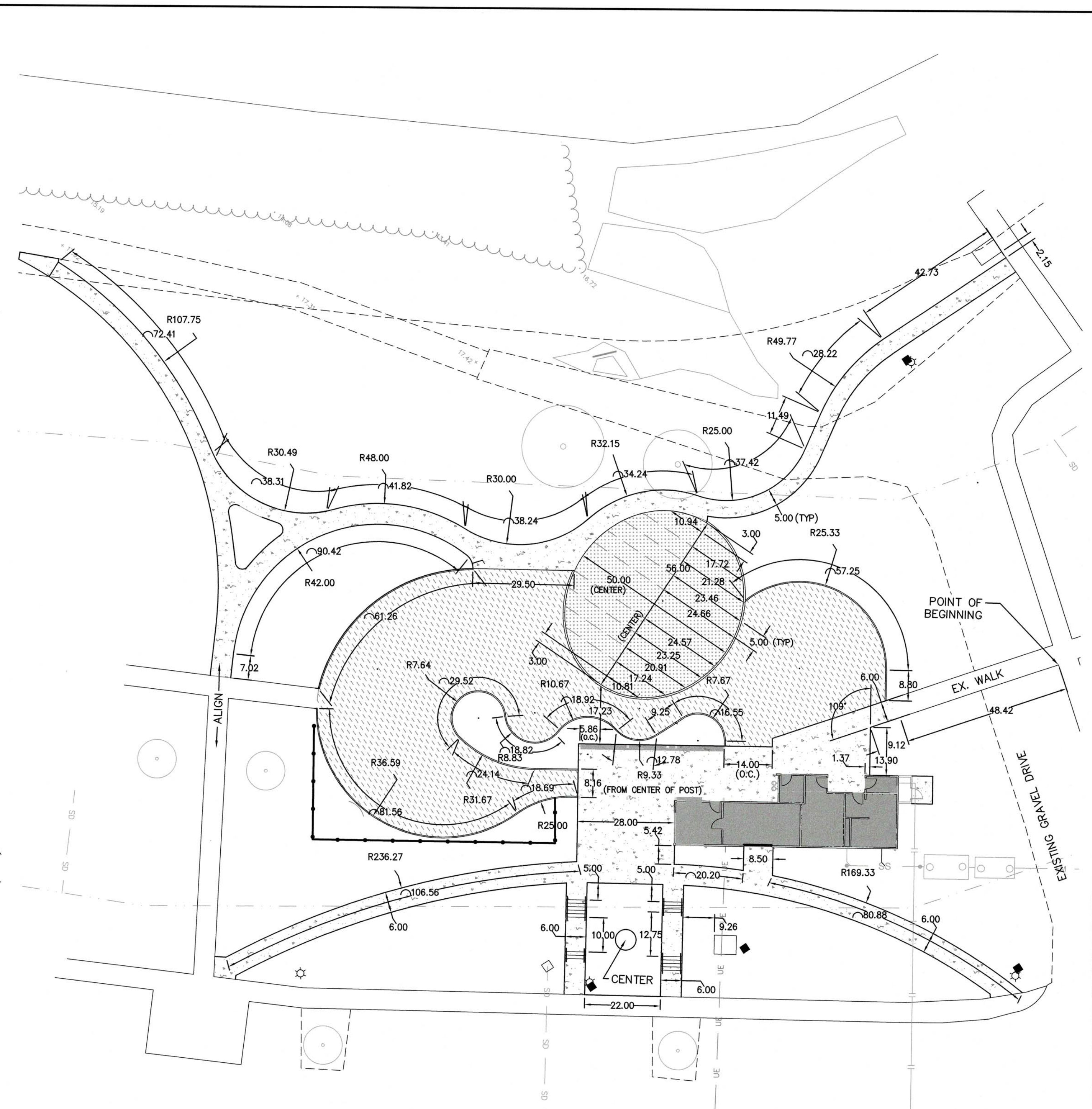


This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. © Copyright, The East Group, P.A. 2021





MATERIALS PLAN & RADIUS CENTER POINT LOCATIONS



LAYOUT PLAN



**GENERAL NOTES:**

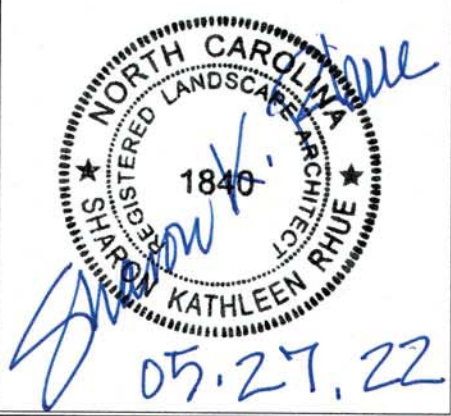
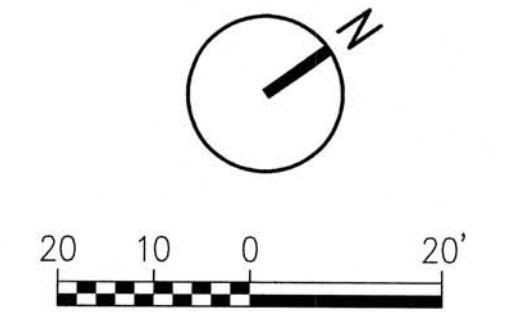
1. SITE SHALL MEET ALL RELATED ACCESSIBILITY REQUIREMENTS.
2. ACCESSIBLE ROUTE IS PROPOSED FROM EXISTING SIDEWALKS AND ACCESSIBLE PARKING SPACES TO WELCOME CENTER AND PLAYGROUND.
3. NO WATERBODIES SUBJECT TO TAR PAMLICO BUFFER RULES EXIST WITHIN THE DISTURBED LIMITS OF THE PROJECT AREA.
4. THIS PROJECT 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 NOT 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 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 PUBLIC 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= 22.2).
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.

**NOTE:**

PLAYGROUND EQUIPMENT, MULCH SAFETY SURFACE AND ASSOCIATED UNDERDRAINS, AND PLASTIC PLAYGROUND EDGING TO BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE ACCESS, SEQUENCE, AND INSTALLATION WITH PLAYGROUND CONTRACTOR.

SITE LIGHTING LOCATIONS MAY BE ADJUSTED BASED ON REVIEW OF PHOTOMETRIC DIAGRAM PROVIDED BY CONTRACTOR AS SHOP DRAWING. FINAL LIGHTING LOCATIONS SHALL BE COORDINATED WITH PROJECT LANDSCAPE ARCHITECT.



**PRELIMINARY**  
 DO NOT USE FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
A	04.29.22	ISSUE FOR OWNER REVIEW
B	05.13.22	ISSUE FOR COG. SITE PLAN REVIEW
C	05.27.22	ISSUE FOR BID

PROJECT NO. \_\_\_\_\_

CLIENT PROJECT NO. \_\_\_\_\_

PROJECT TITLE  

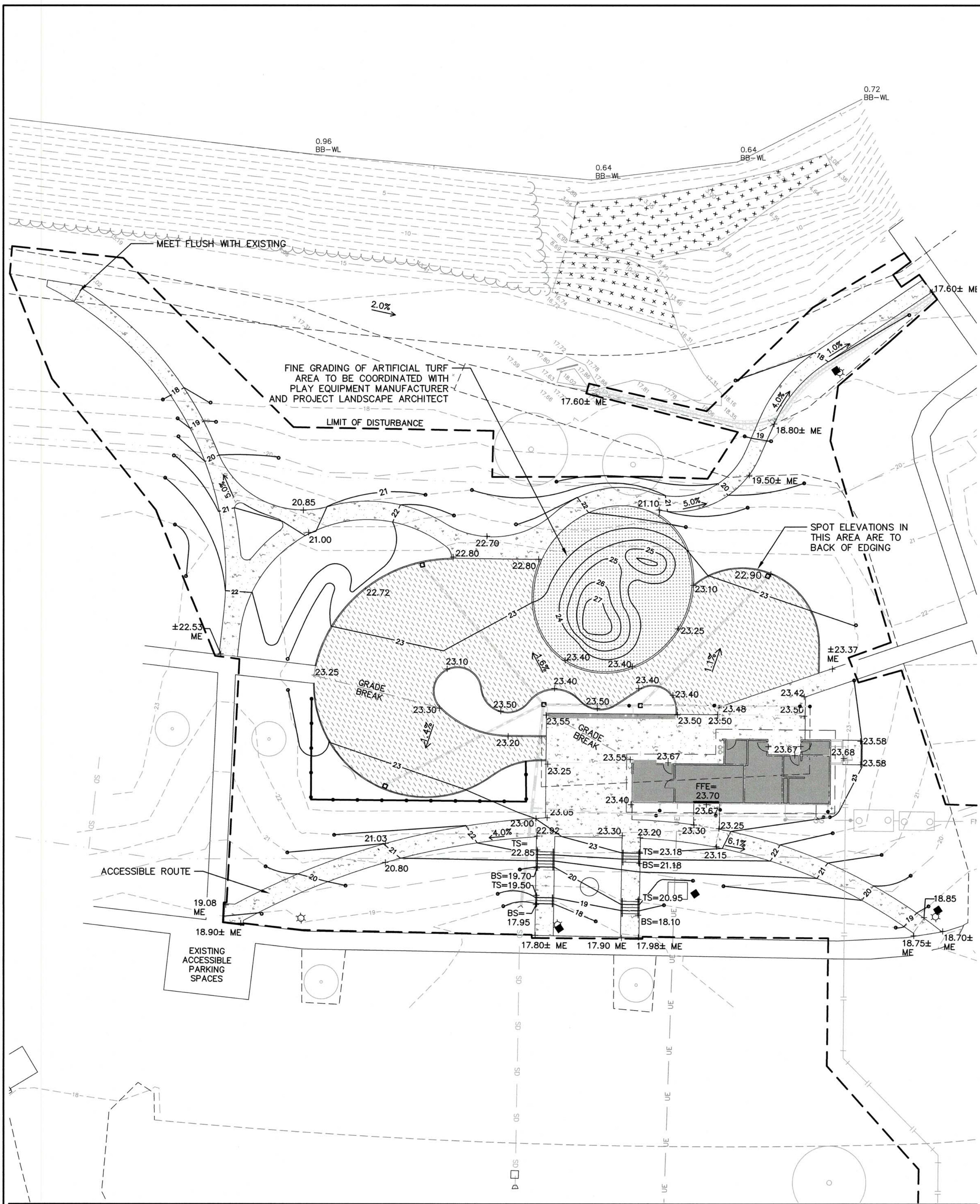
 WILDWOOD PARK  
 WELCOME CENTER  
 & PLAYGROUND SITE

DRAWING TITLE  
 LAYOUT & MATERIALS  
 PLAN

DRAWING NO.  
**L1.1**

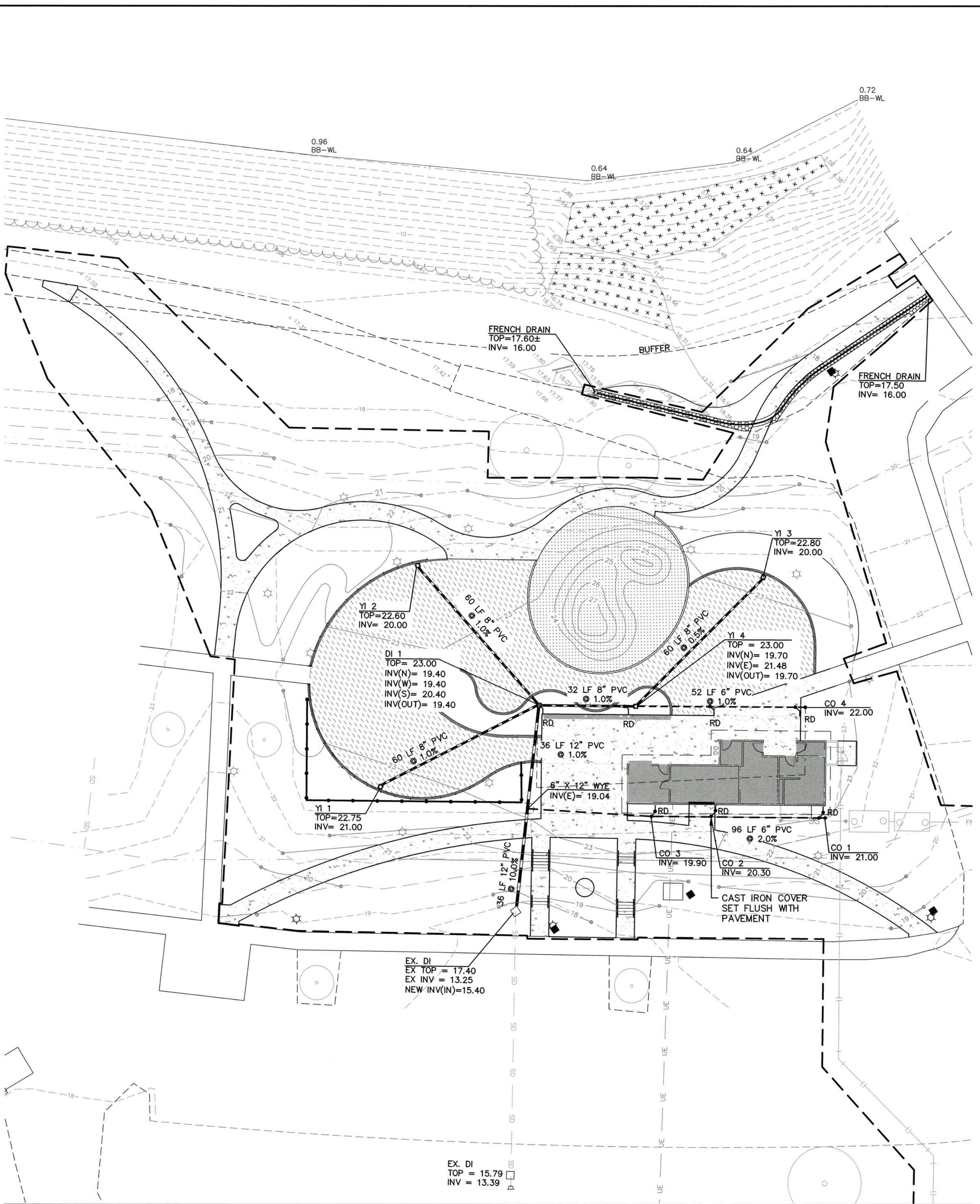
This drawing is the property of The East Group, P.A. and is to be used only for the project and site shown. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written consent of The East Group, P.A. © Copyright, The East Group, P.A. 2021.





**GRADING PLAN**

NOTE:  
 GRADES ARE SHOWN FOR TOP OF PLAYGROUND MULCH SAFETY SURFACE. CONTRACTOR TO COORDINATE GRADING OF SUB-SURFACE ELEVATIONS WITH PLAYGROUND CONTRACTOR.

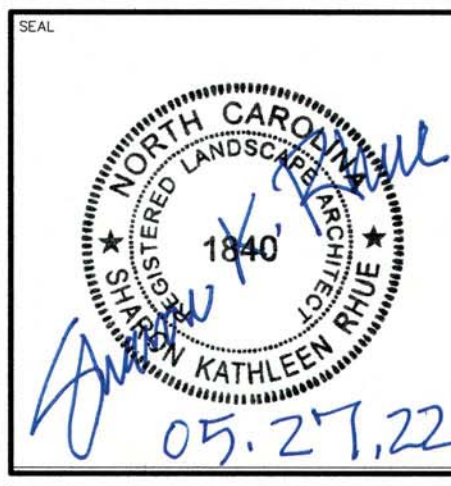
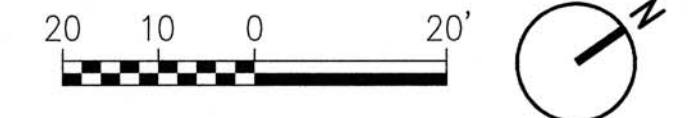


**DRAINAGE PLAN**

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 SHOWN ON THIS SHEET.

**GRADING & DRAINAGE KEY**

XX.XX	EXISTING SPOT ELEVATION
XX.XX	PROPOSED SPOT ELEVATION
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
FFE	FINISH FLOOR ELEVATION
TS	TOP OF STAIR
BS	BOTTOM OF STAIR
BC	BACK OF CURB
ME	MATCH EXISTING
NG	NATURAL GRADE
RD	ROOF DRAIN
DI	DROP INLET
YI	YARD INLET
FES	FLARED END SECTION
JB	JUNCTION BOX
CO	CLEAN OUT
INV	INVERT
---	GRADE BRAKE



**PRELIMINARY**  
 DO NOT USE FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
A	04.29.22	95% OWNER REVIEW
B	05.13.22	ISSUE FOR C.O.G. SITE PLAN REVIEW
C	05.27.22	ISSUE FOR BID

REG PROJECT NO.  
 CLIENT PROJECT NO.  
 PROJECT TITLE  
**Greenville**  
 NORTH CAROLINA  
 WILDWOOD PARK  
 WELCOME CENTER  
 & PLAYGROUND SITE  
 DRAWING TITLE  
**GRADING & DRAINAGE PLAN**  
 DRAWING NO.  
**L2.1**

This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. © Copyright, The East Group, P.A. 2021





**PRELIMINARY**  
DO NOT USE FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
A	04.29.22	95% OWNER REVIEW
B	05.13.22	ISSUE FOR C.O.G. SITE PLAN REVIEW
C	05.27.22	ISSUE FOR BID

TEC PROJECT NO.  
CLIENT PROJECT NO.



DRAWING TITLE  
**CONSTRUCTION SEQUENCE GRADING, AND EROSION CONTROL NOTES**

DRAWING NO.  
**L3.0**

**CONSTRUCTION SEQUENCE**

- OBTAIN AND POST A COPY OF THE CERTIFICATE OF EROSION AND SEDIMENT CONTROL PLAN APPROVAL. NOTIFY THE CITY OF GREENVILLE AT 252-329-4467 PRIOR TO COMMENCING CONSTRUCTION. A PRECONSTRUCTION MEETING MAY BE REQUIRED AT THE DISCRETION OF THE CITY.
- 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.
- 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.
- TRANSITION EROSION CONTROL MEASURES FROM DEMOLITION PHASE TO GRADING PHASE AND INSTALL MEASURES IN THE APPROPRIATE AREAS AND BEGIN GRADING THE SITE.
- BEGIN EXCAVATION FOR UNDERGROUND CONSTRUCTION. CONSTRUCT UNDERGROUND IMPROVEMENTS.
- INSTALL DRAINAGE INLETS AND STORM DRAINAGE PIPING WITH TEMPORARY INLET PROTECTION.
- BEGIN PLACING FILL MATERIAL ON THE BUILDING SITES AND IN REQUIRED AREAS PER PLANS.
- INSTALL UTILITY MAINS, SEPTIC SYSTEM, AND SEPTIC FIELDS.
- CONSTRUCT BUILDING AND ASSOCIATED IMPROVEMENTS.
- MAINTAIN EROSION AND SEDIMENTATION MEASURES DURING CONSTRUCTION. CHECK THE MEASURES FOR FAILURE AND AVAILABLE SEDIMENT STORAGE AFTER EACH SIGNIFICANT RAINFALL EVENT.
- COORDINATE WITH PLAYGROUND VENDOR TO SET FOOTINGS FOR PLAY EQUIPMENT PER THEIR LOCATION ON PLANS.
- COMPLETE CONSTRUCTION OF SITE IMPROVEMENTS.
- 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.
- COMPLETE CONSTRUCTION OF ALL PROPOSED IMPROVEMENTS.
- REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE 80%± PERMANENT VEGETATION STABILIZATION IS ESTABLISHED.
- 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:**

- 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.
- 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.
- 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.
- 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.
- THE CITY ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE.
- 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.
- ALL DEWATERING OPERATIONS SHALL BE FILTERED PRIOR TO LEAVING THE SITE.
- ALL STREETS SHOULD BE SWEEP AS NEEDED BUT AT LEAST WEEKLY TO CONTROL SEDIMENT FROM LEAVING THE SITE DURING GRADING ACTIVITIES.

**GRADING NOTES:**

- 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.
- 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.
- ALL FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).
- 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.
- 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.
- 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**

- 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.
- PREPARATION OUTLINED ABOVE SHALL NOT BE DONE WHEN THE SOIL IS FROZEN, WET OR OTHERWISE IN AN UNFAVORABLE CONDITION.
- 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.
- SEEDING AND MULCHING OPERATIONS SHALL NOT BEGIN UNTIL ELECTRICAL SERVICE HAS BEEN INSTALLED WITHIN THE PROJECT, UNLESS DIRECTED BY THE ARCHITECT/ENGINEER.
- DISTRIBUTE LIME AND FERTILIZER, UNIFORMLY OVER SEED BED AND HARROW, RAKE, OR OTHERWISE WORK SAME INTO SEED BEDS.
- DISTRIBUTE SEED UNIFORMLY OVER SEED BED. COVER SEED LIGHTLY AFTER SEEDING.
- 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	SEED	RATE
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#	CENTPEDE	10#	CENTPEDE
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 BAHIA GRASS MAY BE SUBSTITUTED FOR EITHER CENTPEDE OR BERMUDAGRASS UPON ENGINEER'S REQUEST.

**MAINTENANCE PLAN**

- 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.
- 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.
- EROSION CONTROL MATTING SHALL BE MAINTAINED UNTIL ALL WORK IS COMPLETE. AREAS SHALL BE RESEDED AND MATTING SHALL BE REPLACED AS NEEDED.
- 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.
- 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.
- 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.
- 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:**

- MUST KEEP A RAIN GAUGE ON THE PROJECT SITE.
- DEDICATED DEMOLITION AND OTHER WASTE AREAS AND EARTHEN MATERIAL STOCKPILES MUST BE LOCATED AT LEAST 50' FROM STORM DRAINS OR STREAMS UNLESS NO ALTERNATIVE IS FEASIBLE.
- 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.
- MUST INSPECT ALL OUTLETS WHERE STORMWATER RUNOFF LEAVES THE SITE AND EVALUATE THE EFFECT ON NEARBY STREAMS OR WETLANDS.
- 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.
- MUST KEEP RECORDS OF THESE INSPECTIONS AND ANY CORRECTIVE ACTIONS TAKEN.



**PART III  
 SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION A: SELF-INSPECTION**

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

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDCs)	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 during 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**

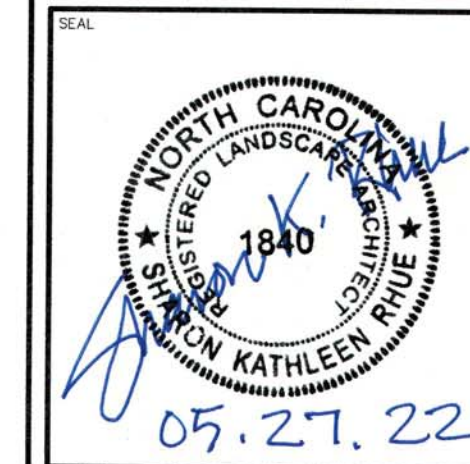
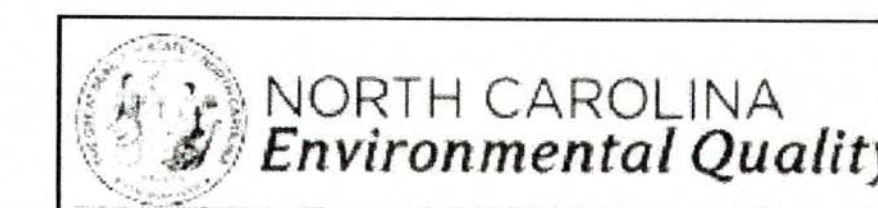
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, 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.</li> <li>• If the stream is named on the <b>NC 303(d) list</b> 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.</li> </ul>
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> </ul>
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> <li>• <b>A report at least ten days before the date of the bypass, if possible.</b> The report shall include an evaluation of the anticipated quality and effect of the bypass.</li> </ul>
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that includes an evaluation of the quality and effect of the bypass.</li> </ul>
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, 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)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul>

**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.



**PRELIMINARY**  
 DO NOT USE FOR CONSTRUCTION

REV	DATE	DESCRIPTION
A	04/29/22	ISSUE OWNER REVIEW
B	05/13/22	ISSUE FOR C.O.C. SITE PLAN REVIEW
C	05/27/22	ISSUE FOR BID

PROJECT NO.  
 CLIENT PROJECT NO.  
 PROJECT TITLE  
**Greenville**  
 NORTH CAROLINA  
 WILDWOOD PARK  
 WELCOME CENTER  
 & PLAYGROUND SITE

DRAWING TITLE  
 SELF INSPECTION, RECORD  
 KEEPING AND REPORTING

DRAWING NO.  
**L3.1**



**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
<ul style="list-style-type: none"> <li>• Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>• Hydroseeding</li> <li>• Rolled erosion control products with or without temporary grass seed</li> <li>• Appropriately applied straw or other mulch</li> <li>• Plastic sheeting</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>• Geotextile fabrics such as permanent soil reinforcement matting</li> <li>• Hydroseeding</li> <li>• Shrubs or other permanent plantings covered with mulch</li> <li>• Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>• Structural methods such as concrete, asphalt or retaining walls</li> <li>• Rolled erosion control products with grass seed</li> </ul>

**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**

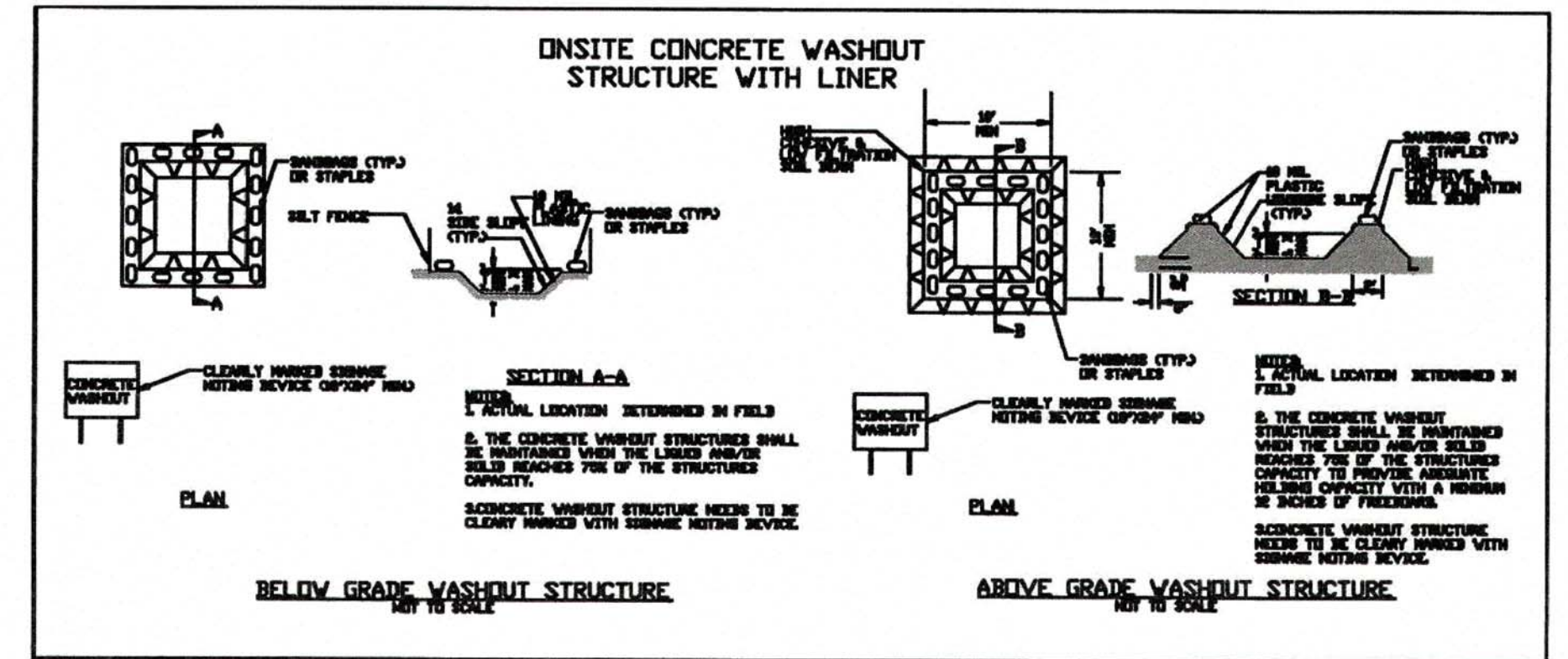
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, 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**

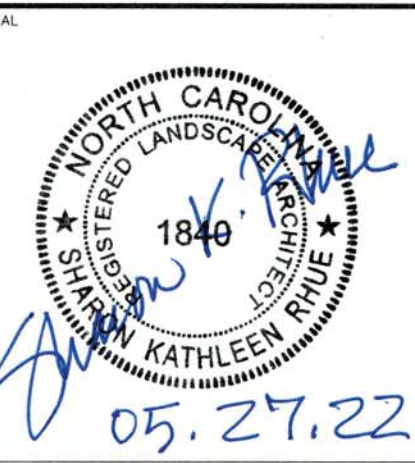
1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place 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.



**PRELIMINARY**  
DO NOT USE FOR CONSTRUCTION

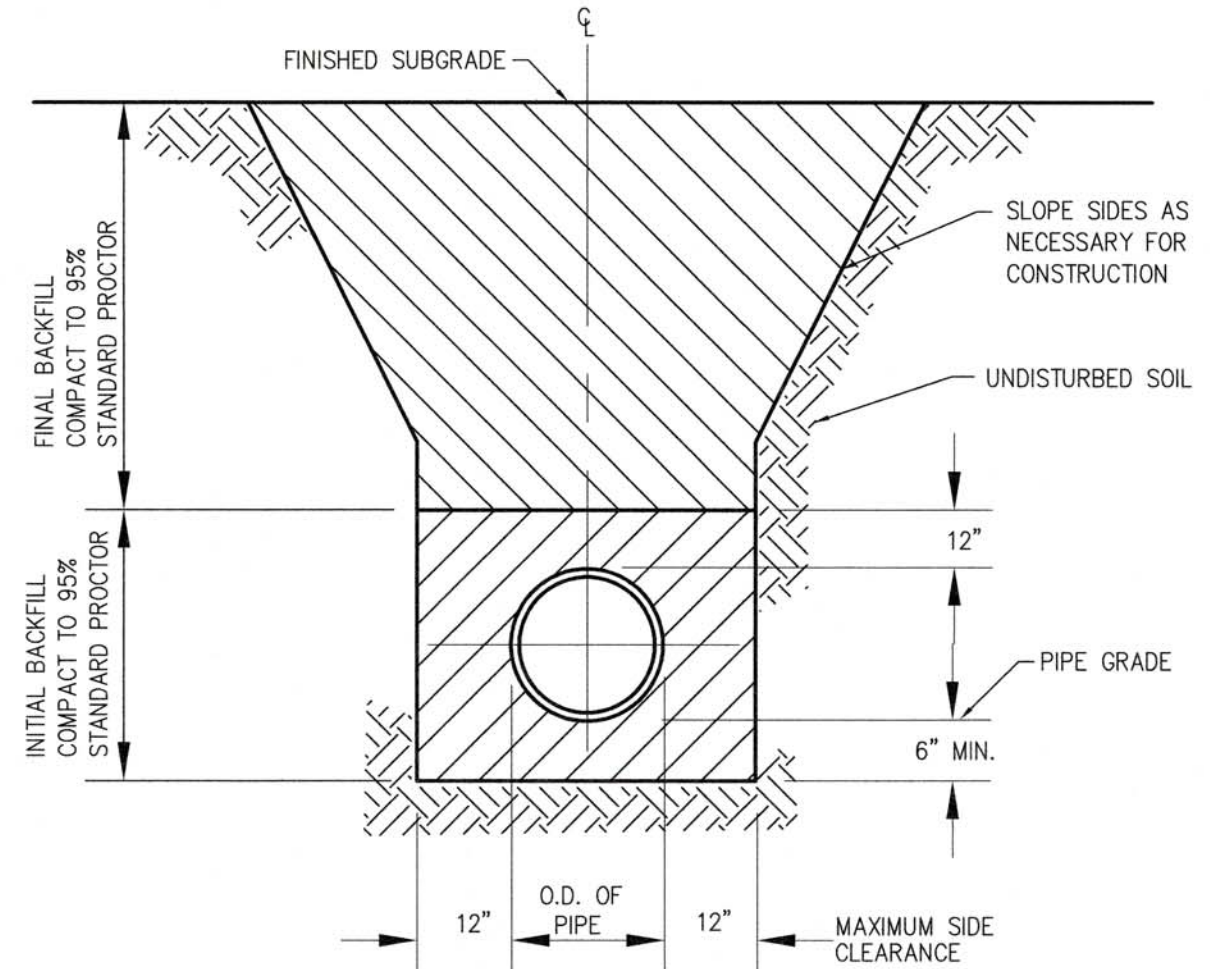
REV	DATE	DESCRIPTION	BY	CHK
A	04/29/22	95% OWNER REVIEW		
B	05/13/22	ISSUE FOR C.O.G. SITE PLAN REVIEW		
C	05/27/22	ISSUE FOR BID		

CLIENT PROJECT NO.  
 PROJECT TITLE  
**Greenville**  
 NORTH CAROLINA  
 WILDWOOD PARK  
 WELCOME CENTER  
 & PLAYGROUND SITE

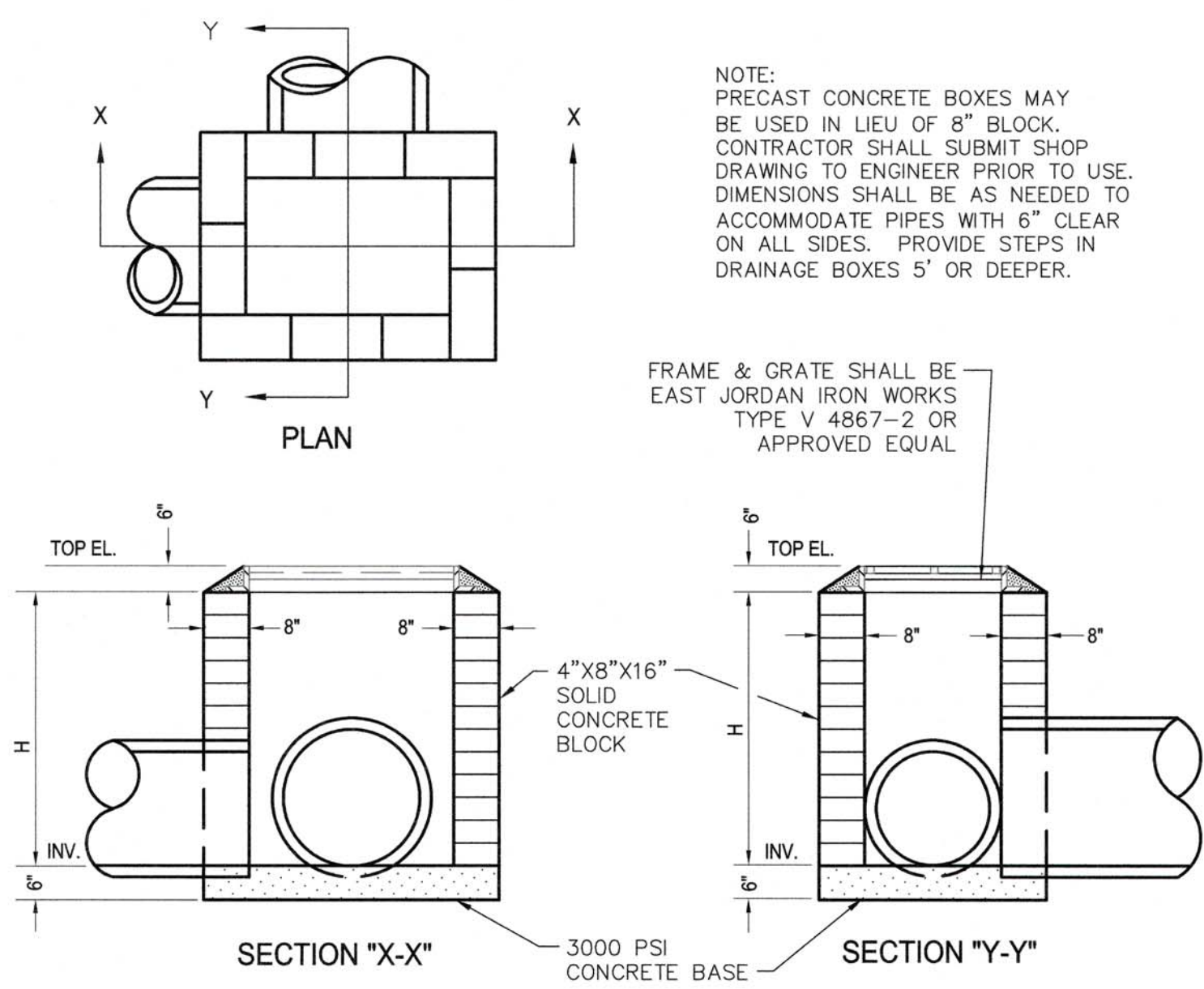
GROUND STABILIZATION AND MATERIALS HANDLING

This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. © Copyright, The East Group, P.A. 2021

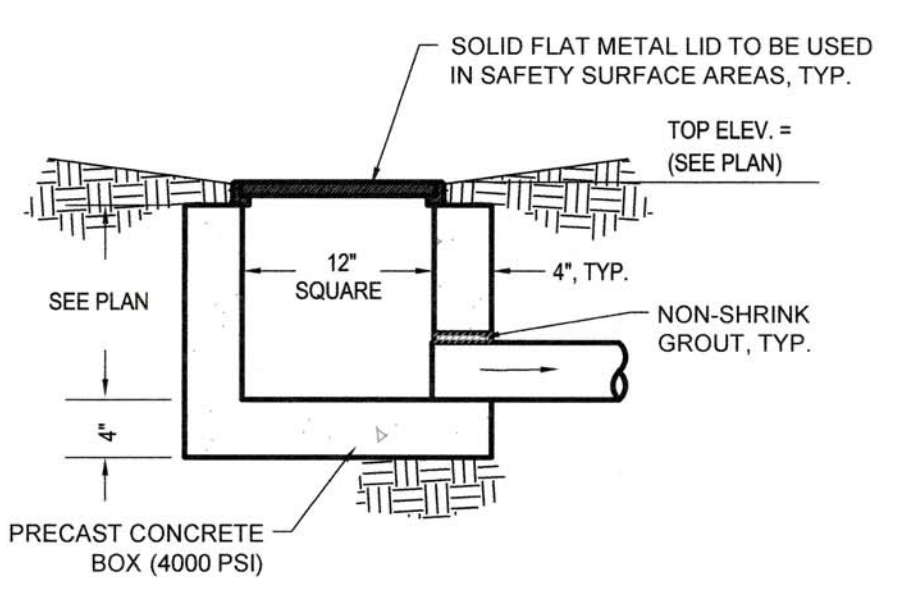




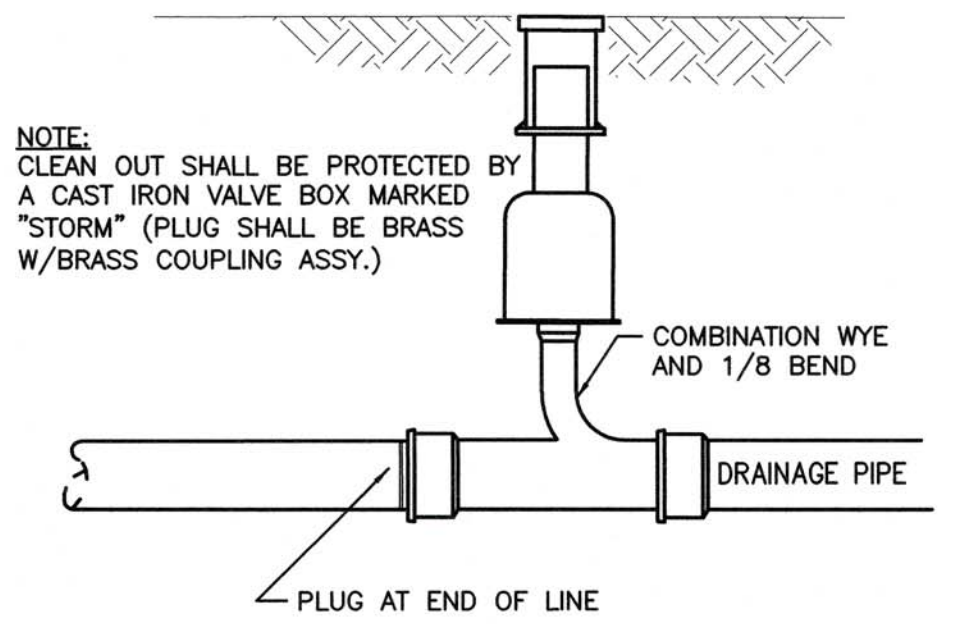
1 STORM DRAIN TRENCH  
L3.3 N.T.S.



2 DROP INLET  
L3.3 N.T.S.



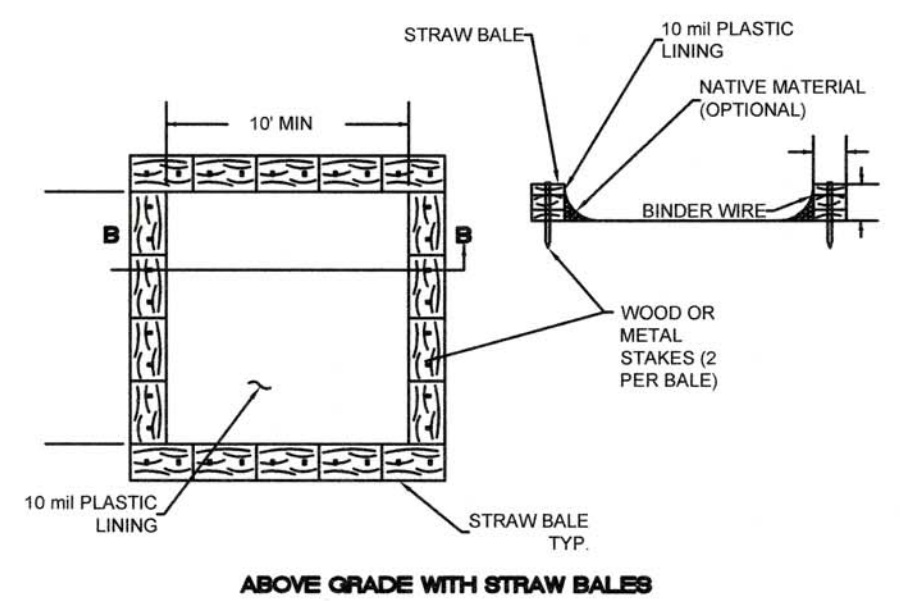
3 YARD INLET  
L3.3 N.T.S.



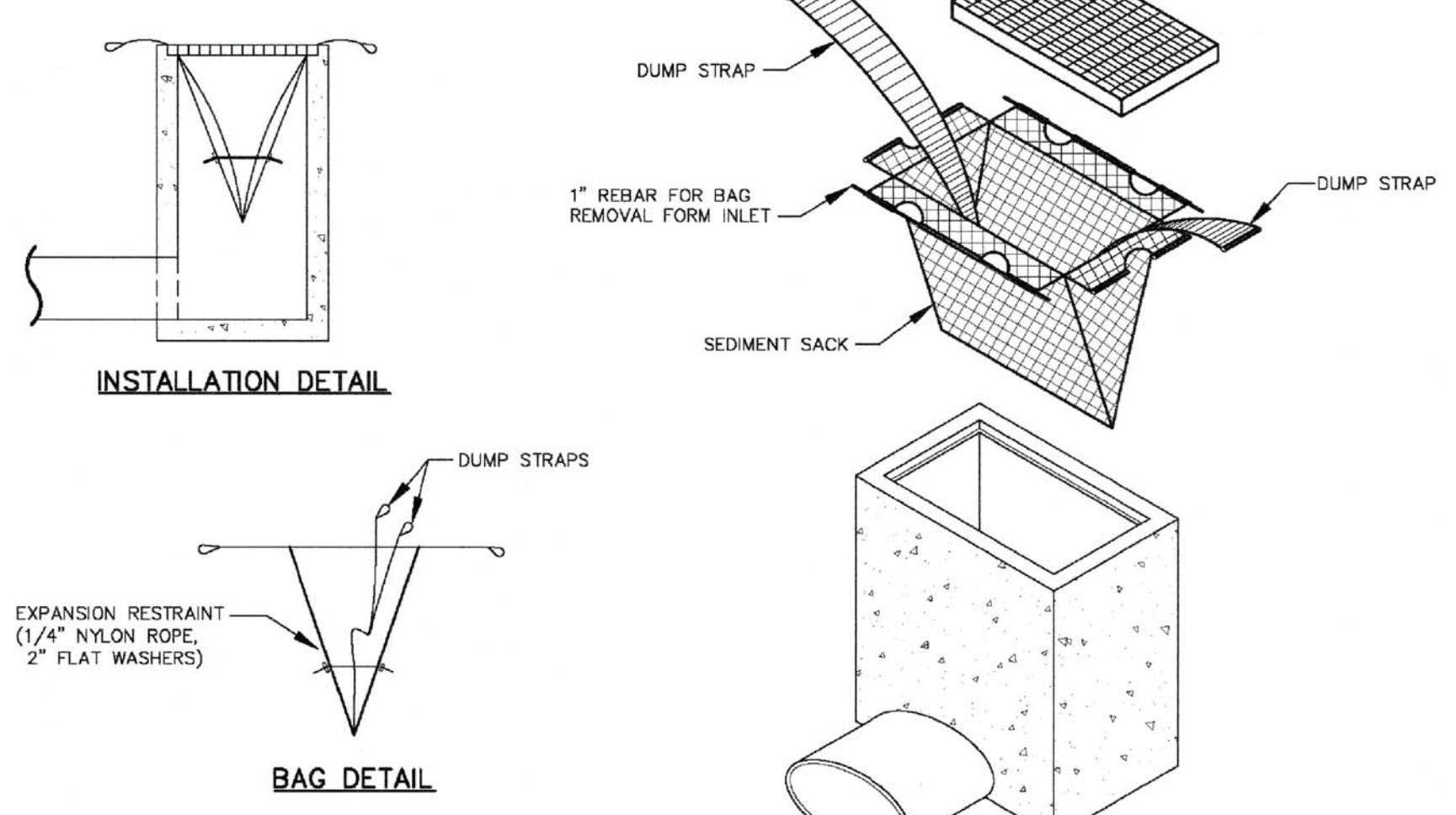
4 CLEAN OUT  
L3.3 N.T.S.

NOTES:  
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD BUT NOT WITHIN 50 FT OF A PROPOSED/ EXISTING CATCH BASIN AND/ OR INLETS, TOP OF 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 POLYPROPYLENE OR POLYETHYLENE 10 MIL THICK GEOMEMBRANE.  
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

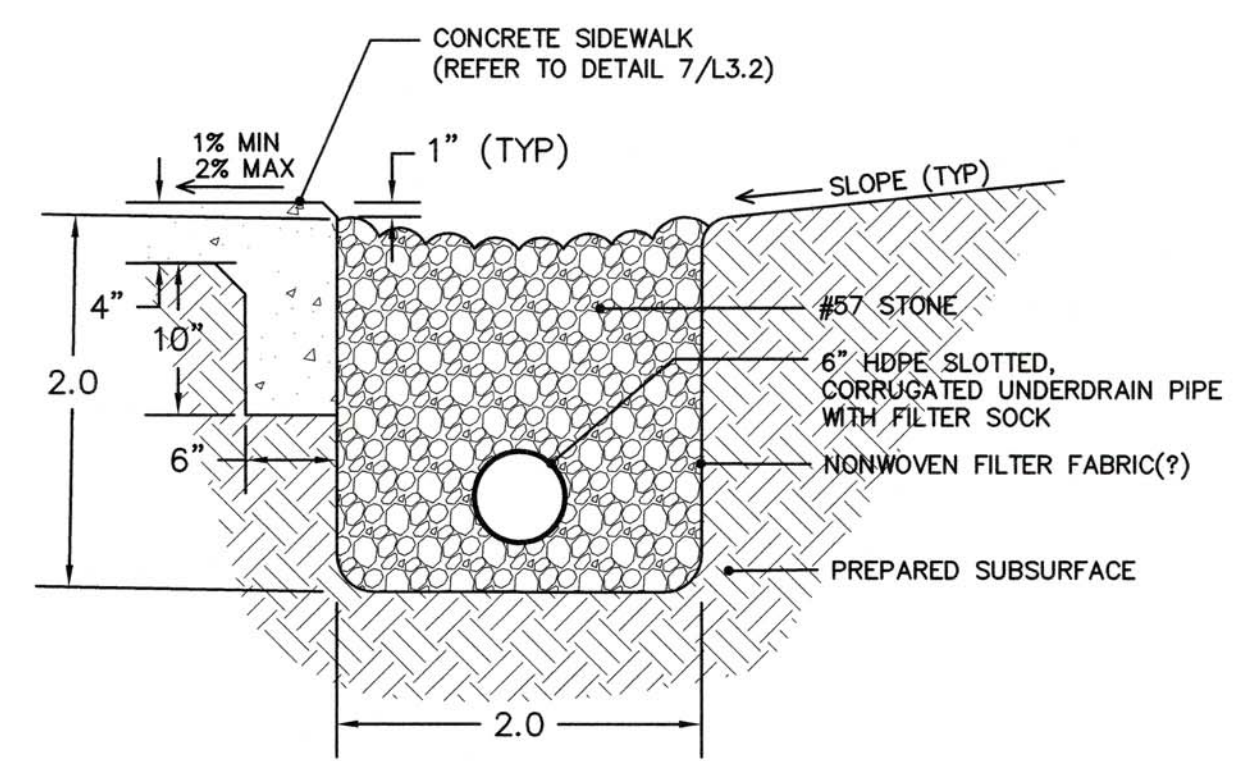
MAINTENANCE:  
1. MAINTAIN WASHOUT STRUCTURE TO PROVIDE ADEQUATE CAPACITY PLUS A MINIMUM OF 12 INCHES. REMOVE AND DISPOSE HARDENED CONCRETE AND RETURN THE STRUCTURE TO A FUNCTIONAL CONDITION AFTER REACHING 75% CAPACITY.  
2. INSPECT WASHOUT STRUCTURE FOR DAMAGE AND MAINTAIN FOR EFFECTIVENESS WEEKLY.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



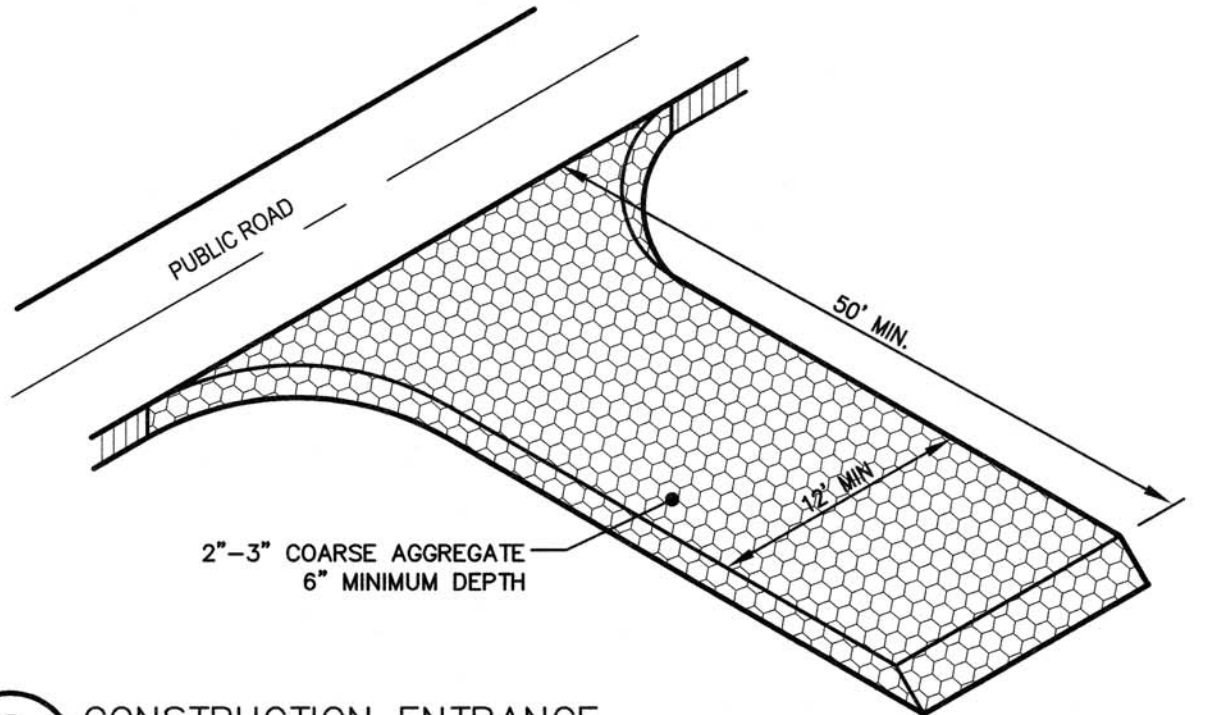
5 CONCRETE WASHOUT DETAIL  
L3.3 N.T.S.



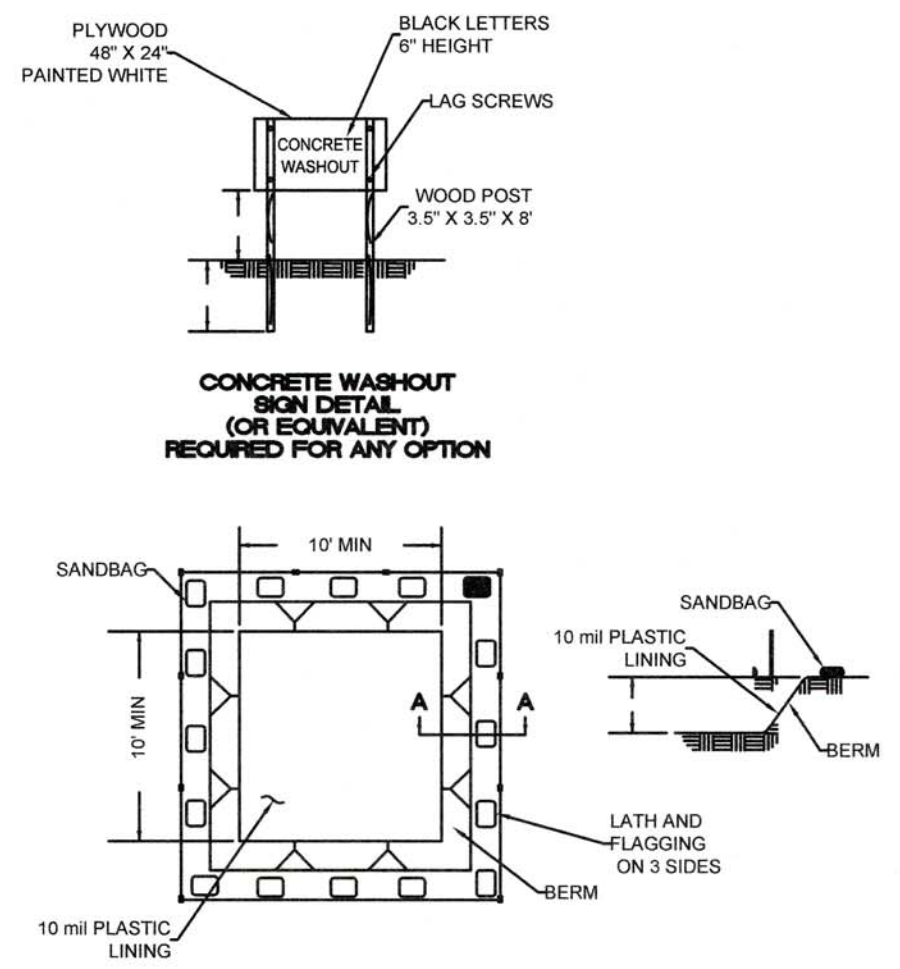
6 INLET SEDIMENT INSERT  
L3.3 N.T.S.



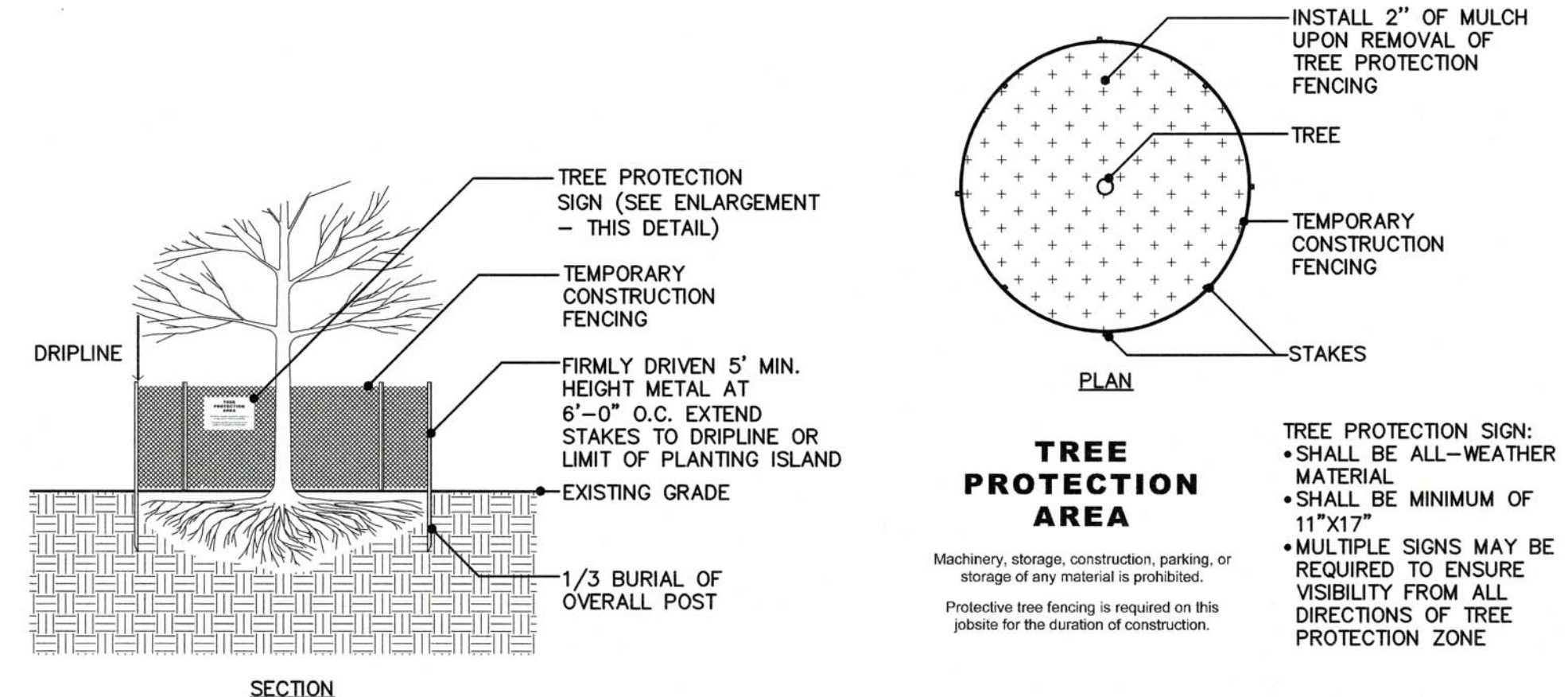
7 FRENCH DRAIN ADJACENT TO TURN-DOWN SIDEWALK  
L3.3 N.T.S.



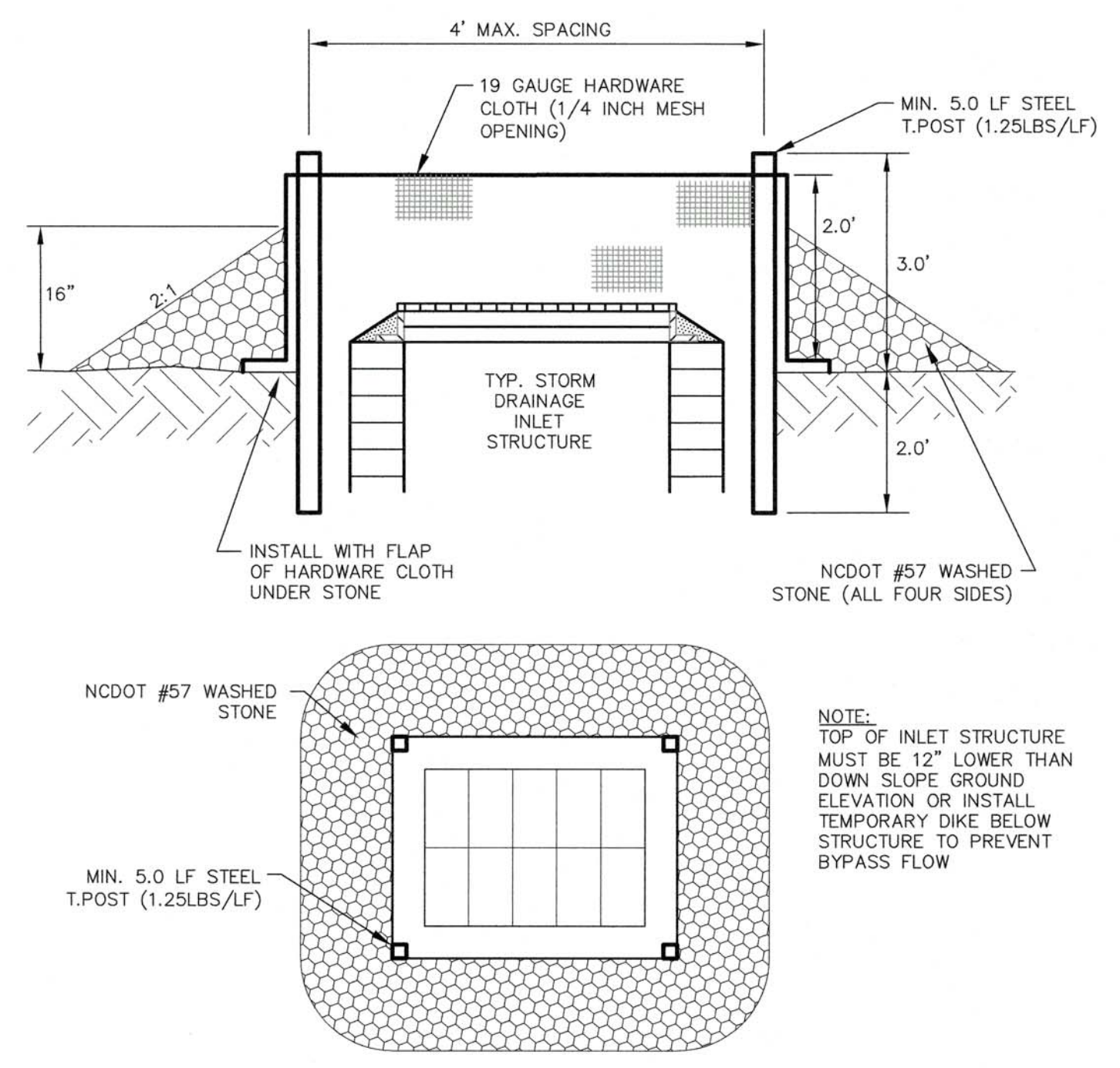
8 CONSTRUCTION ENTRANCE  
L3.3 N.T.S.



9 TREE PROTECTION FENCING  
L3.3 N.T.S.



10 SILT FENCE  
L3.3 N.T.S.



11 HARDWARE CLOTH & GRAVEL INLET PROTECTION  
L3.3 N.T.S.

**THE EAST GROUP**  
Engineering • Architecture  
Surveying • Technology  
Corporate Office  
324 Evans Street  
Greenville, NC 27858  
Tel 252.758.3746  
Fax 252.830.3954  
Branch Office  
4525 Lake Boone Trail, Suite 311  
Raleigh, NC 27607  
Tel 919.784.9330  
Fax 919.784.9331  
NC Engineering License No. C-0206  
NC Architectural License No. 50213  
NC Landscape Architectural License No. C-427

Professional Engineer Seal  
KATHLEEN PRUE  
05.27.22

**PRELIMINARY**  
DO NOT USE FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
A	04.29.22	98% OWNER REVIEW
B	05.13.22	ISSUE FOR C.O.G. SITE PLAN REVIEW
C	05.27.22	ISSUE FOR BID

TEG PROJECT NO.  
CLIENT PROJECT NO.

PROJECT TITLE  
**Greenville**  
NORTH CAROLINA

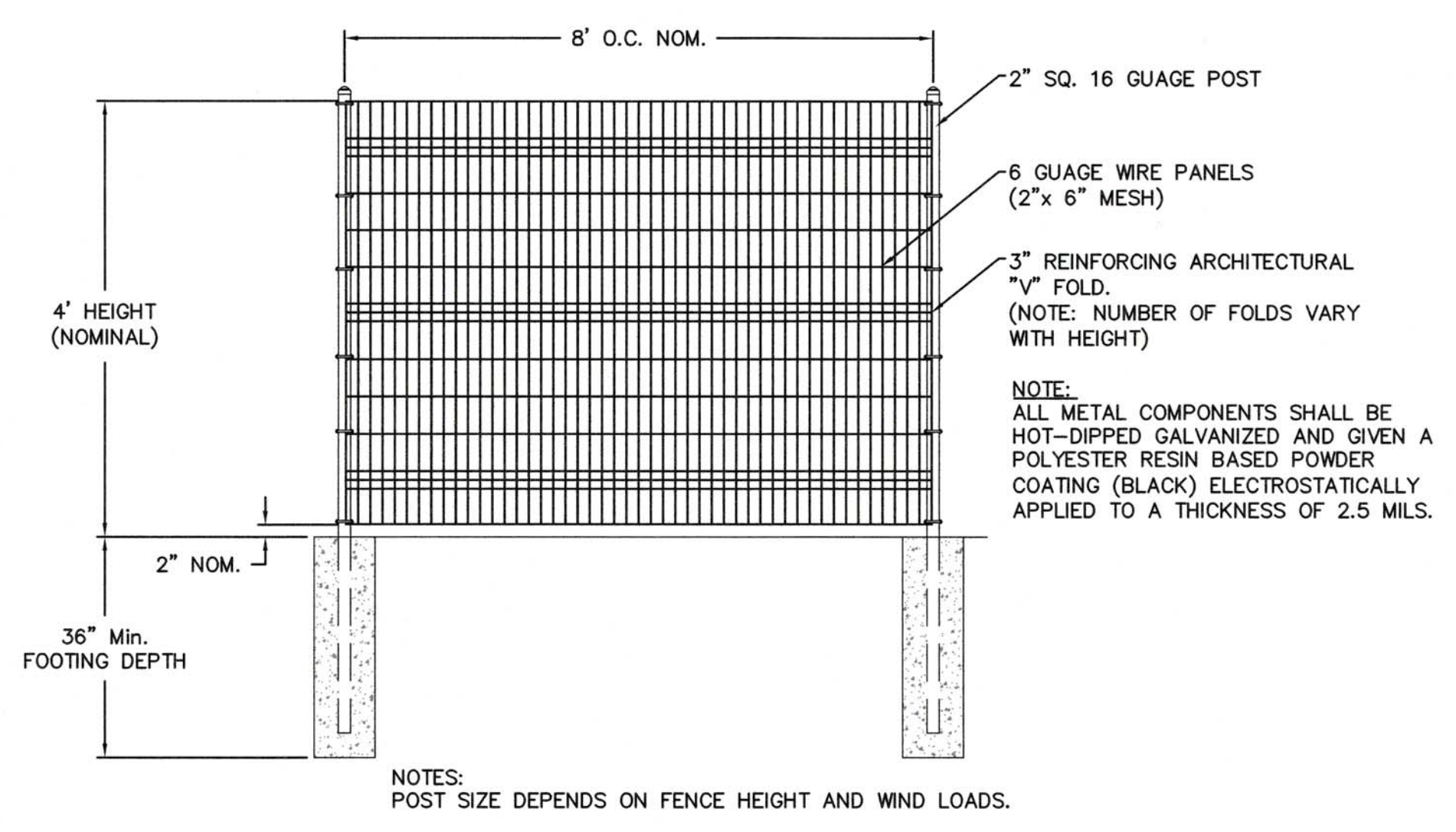
WILDWOOD PARK  
WELCOME CENTER  
& PLAYGROUND SITE

DRAWING TITLE  
**TREE PROTECTION,  
EROSION CONTROL  
& DRAINAGE  
DETAILS**

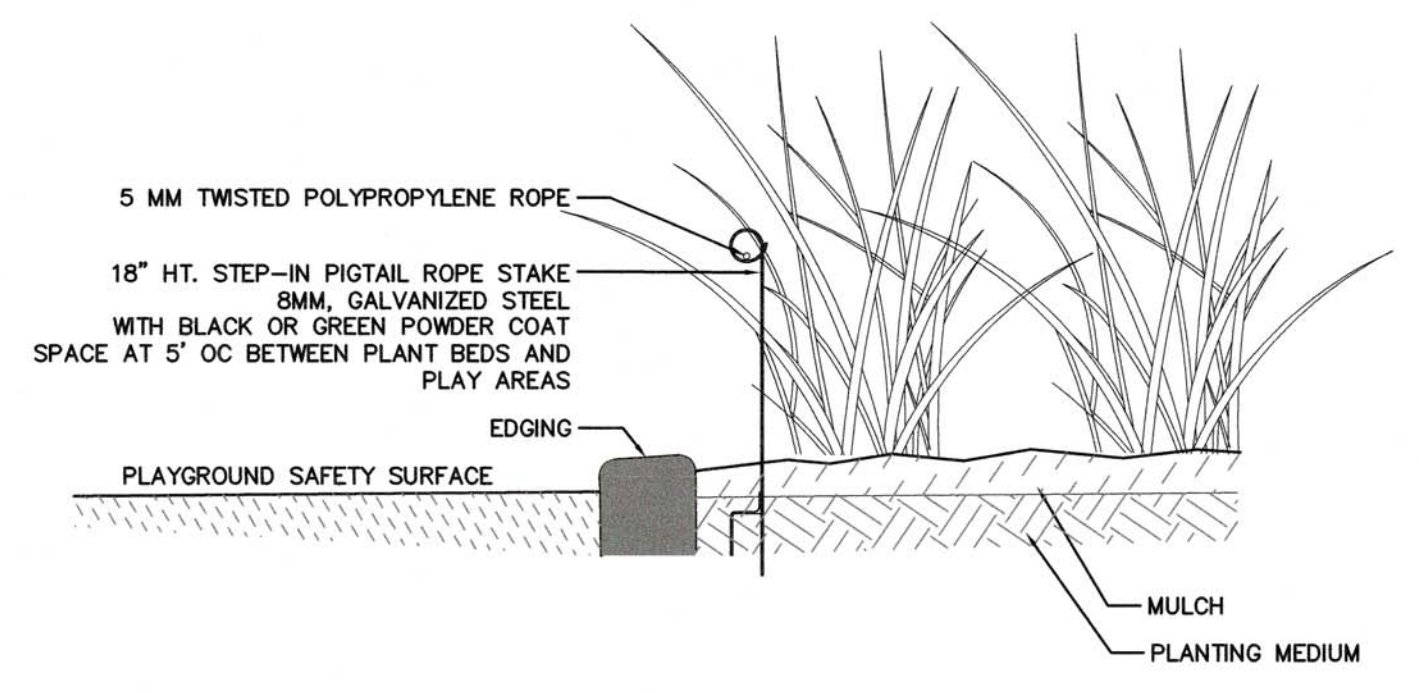
DRAWING NO.  
**L3.3**

This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. © Copyright, The East Group, P.A. 2021.

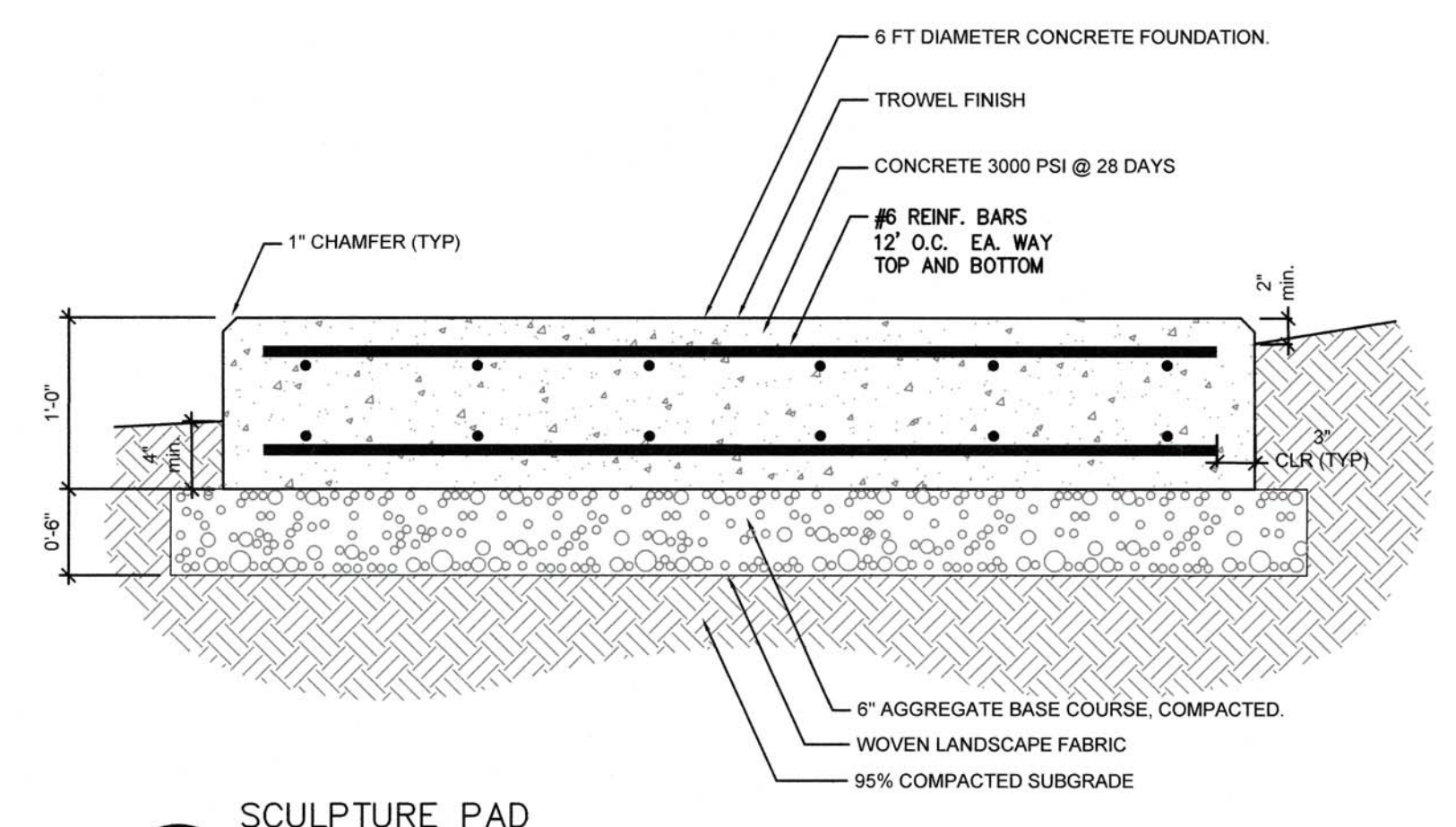




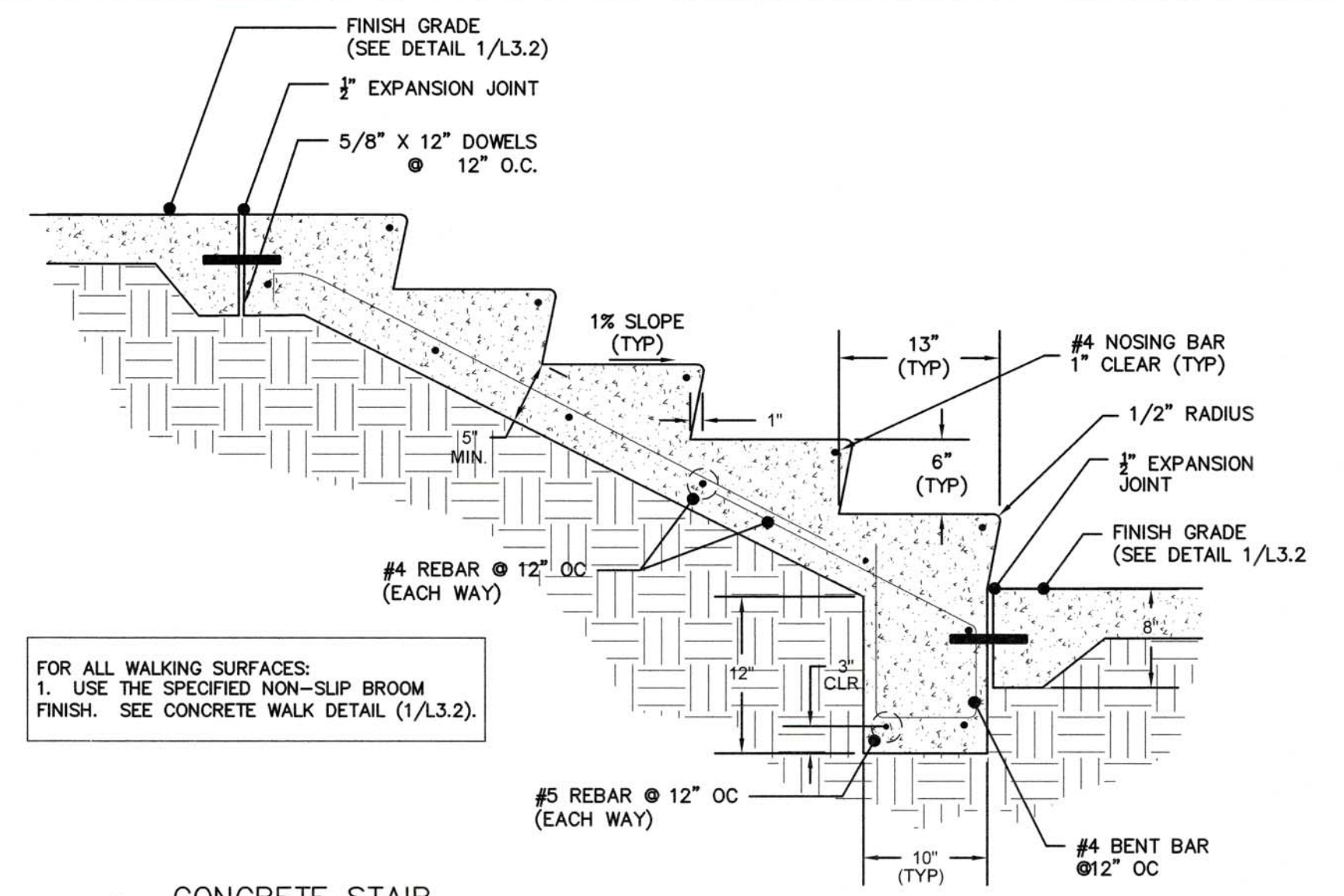
**1** WELDED WIRE FENCE (4' HEIGHT)  
 L3.4 NTS



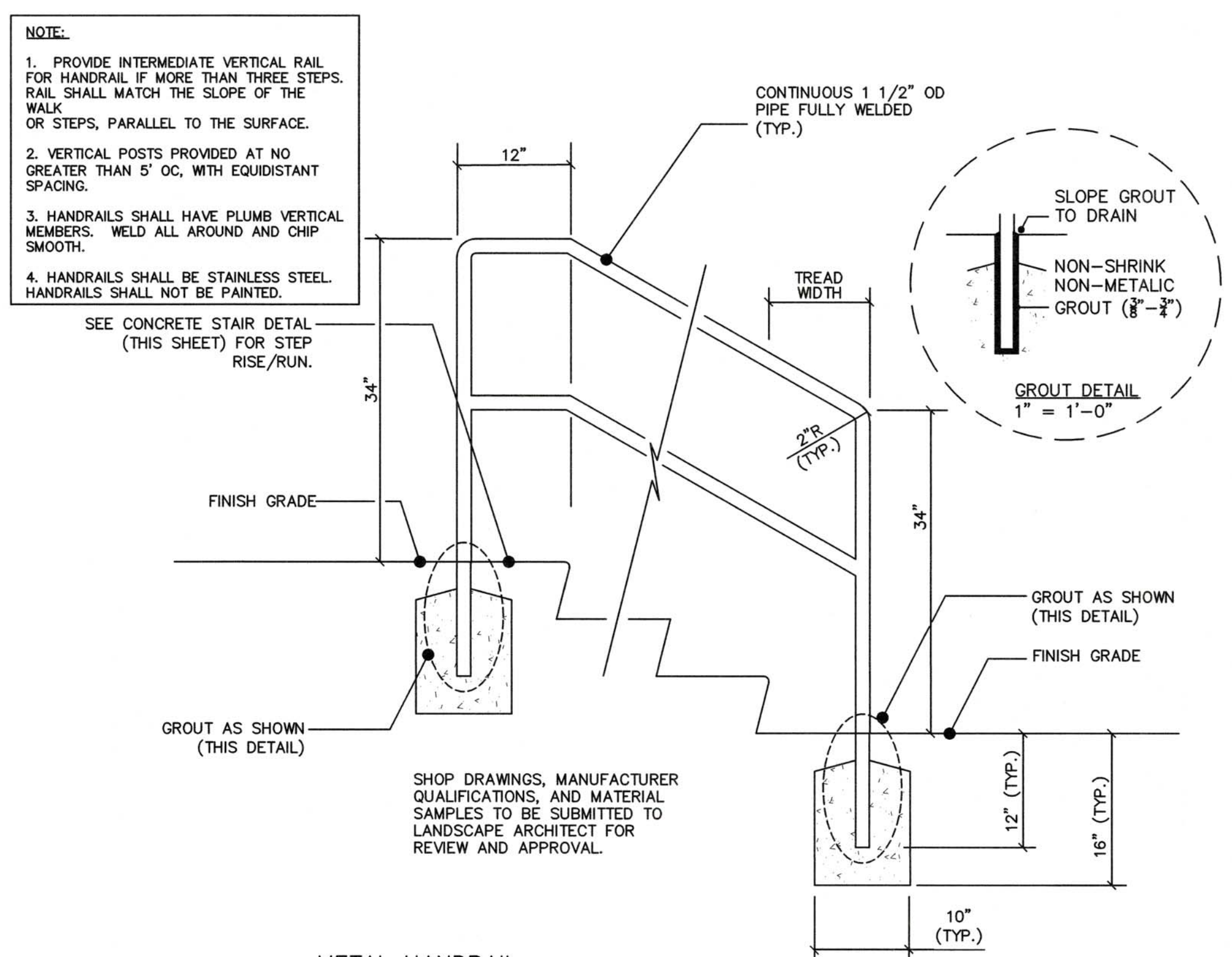
**2** PIGTAIL ROPE STAKES  
 L3.4 NTS



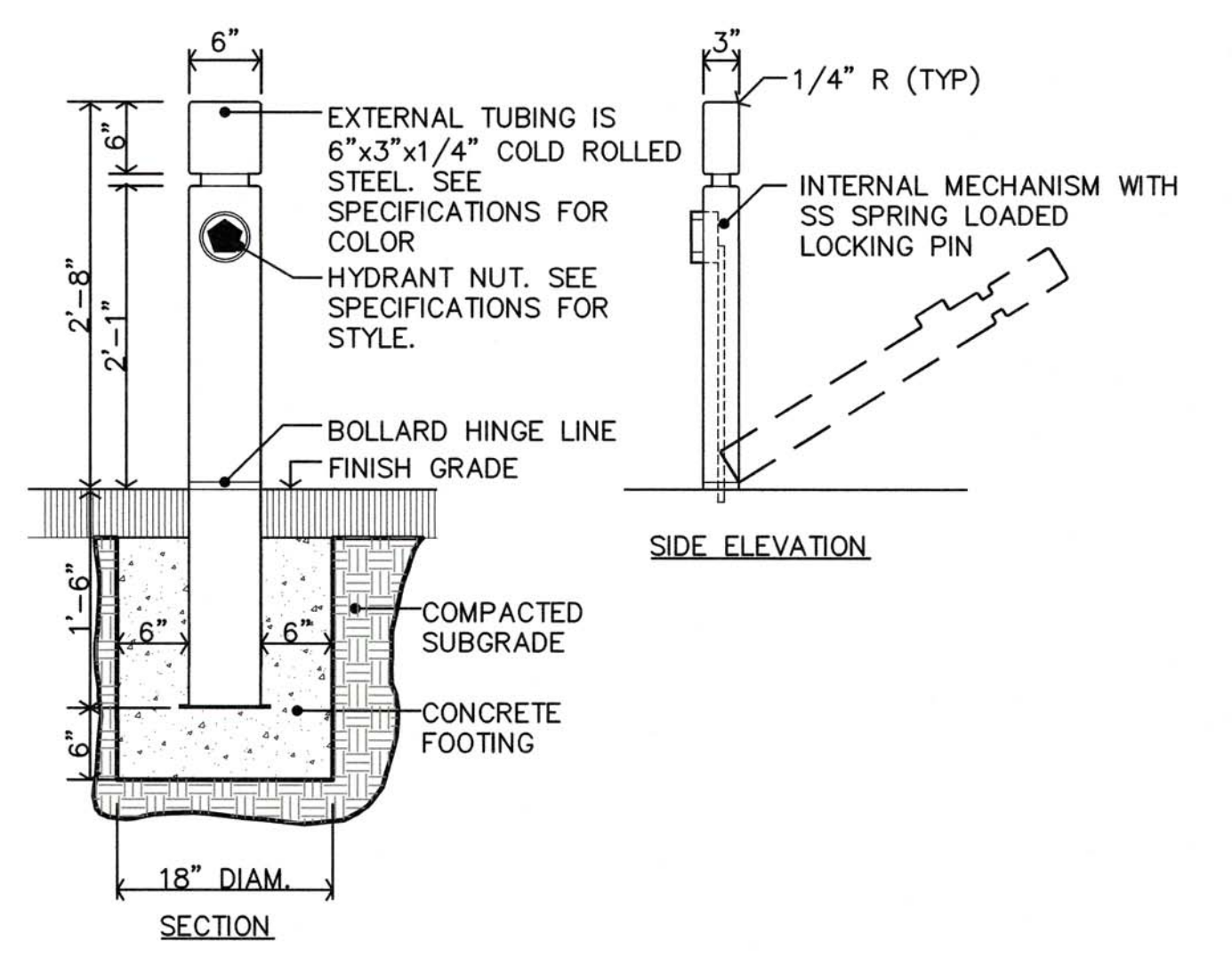
**3** SCULPTURE PAD (ON SLOPE)  
 L3.4 NTS



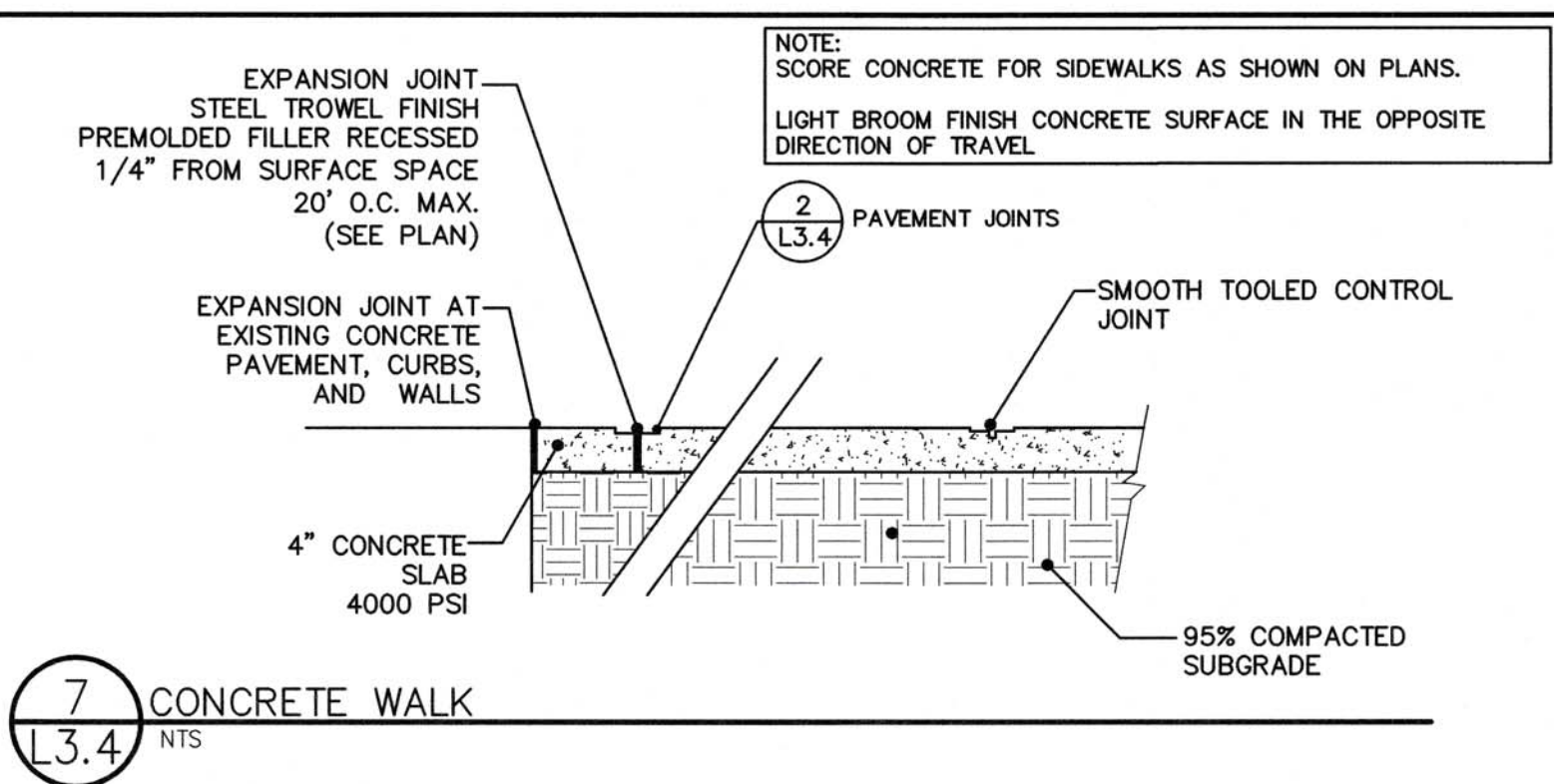
**4** CONCRETE STAIR (NUMBER OF STEPS VARIES)  
 L3.4 NTS



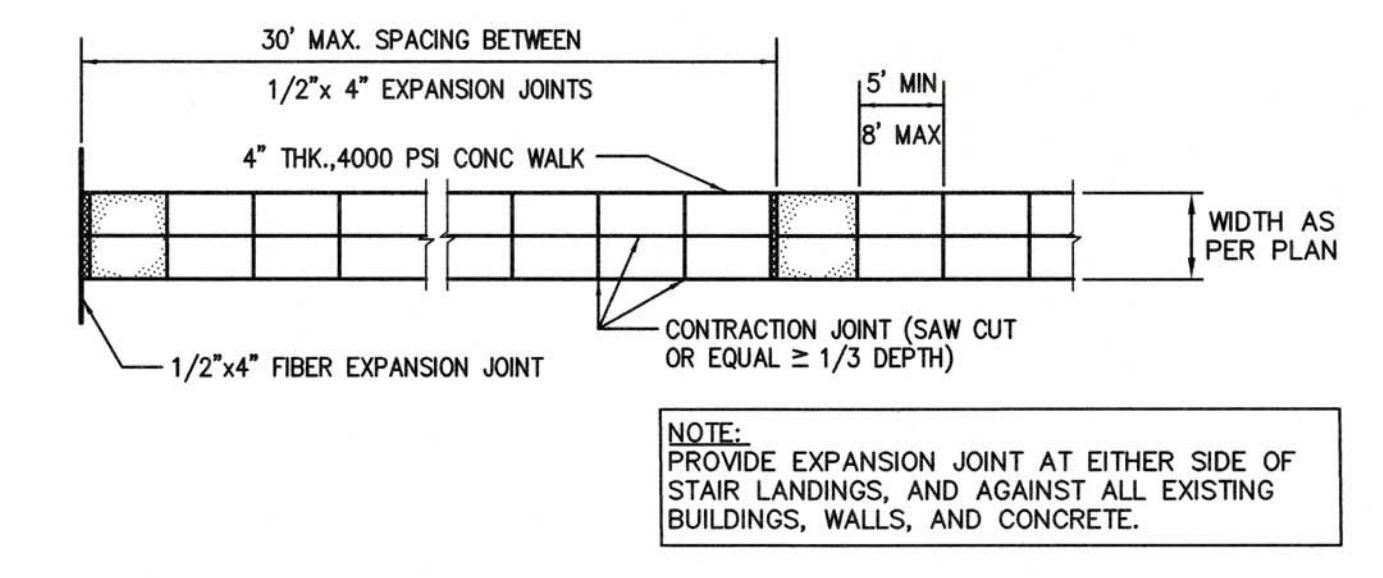
**5** METAL HANDRAIL (TO BE MOUNTED WITHIN CONCRETE STAIRS)  
 L3.4 NTS



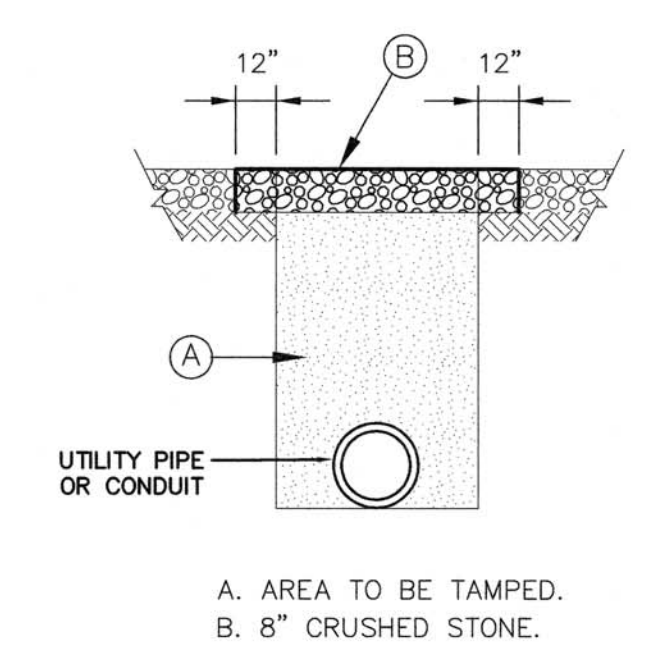
**6** COLLAPSIBLE BOLLARD  
 L3.4 NTS



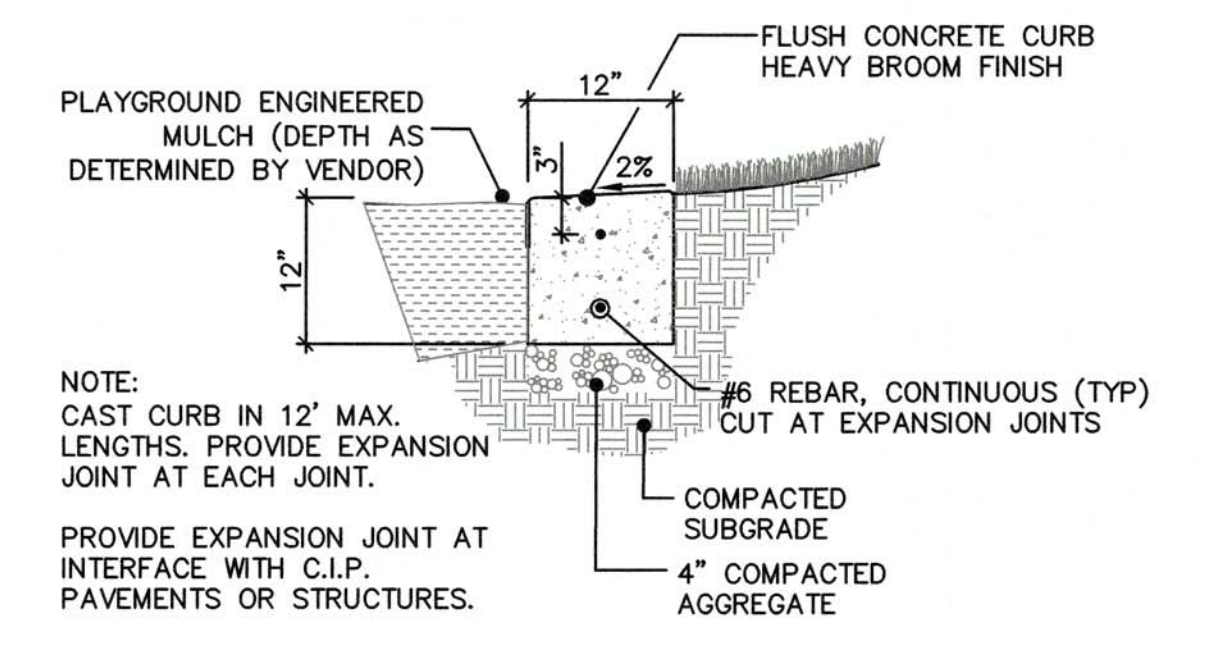
**7** CONCRETE WALK  
 L3.4 NTS



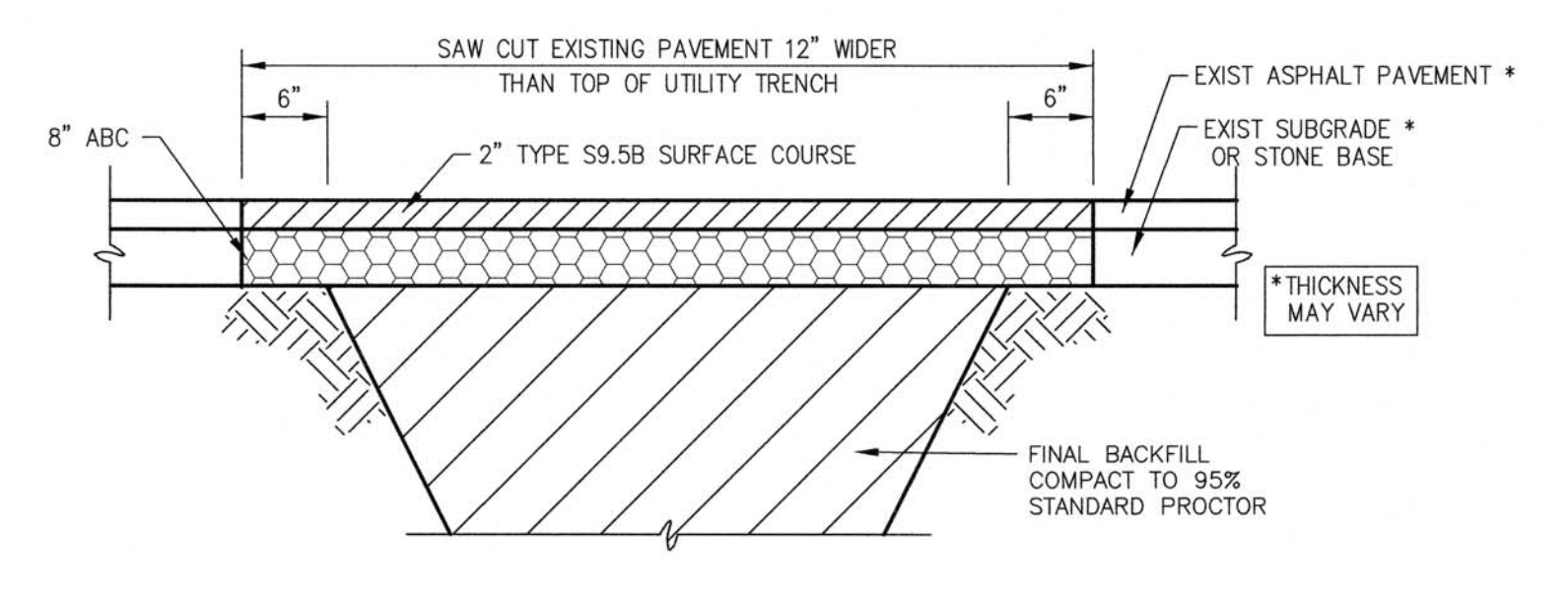
**8** SIDEWALK DETAIL  
 L3.4 NTS



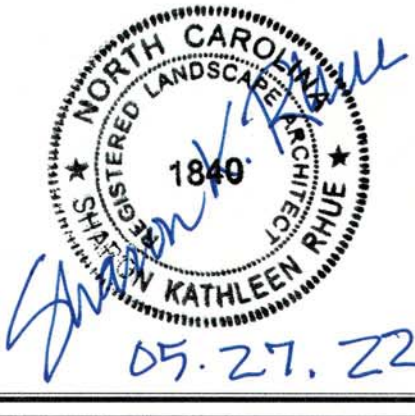
**9** GRAVEL DRIVE REPAIR  
 L3.4 NTS



**10** CONCRETE EDGING (AT OVAL ARTIFICIAL TURF AREA)  
 L3.4 NTS



**11** ASPHALT PAVEMENT REPAIR  
 L3.4 NTS



**PRELIMINARY**  
 DO NOT USE FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY	CHK
A	04.29.22	95% OWNER REVIEW		
B	05.13.22	ISSUE FOR C.O.G. SITE PLAN REVIEW		
C	05.27.22	ISSUE FOR BID		

PROJECT TITLE  
**Greenville**  
 NORTH CAROLINA  
 WILDWOOD PARK  
 WELCOME CENTER  
 & PLAYGROUND SITE

DRAWING TITLE  
 SITE DETAILS

DRAWING NO.  
**L3.4**



**PLANT SCHEDULE**

Symbol	Key	Quantity	Botanical Name (Common Name)	Height	Spread	Caliper	Cont.	Notes
--------	-----	----------	---------------------------------	--------	--------	---------	-------	-------

**CANOPY TREES**

	CC	3	<i>Carpinus caroliniana</i> (American Ironwood)	14' min	-	3.0" min.	-	Straight, single leader
	QP	6	<i>Quercus palustris</i> (Pin Oak)	14' min	-	4.0" cal.	-	Straight, single leader

**UNDERSTORY TREES**

	AL	3	<i>Amelanchier laevis</i> (Alleghany Serviceberry)	8' min	-	1.5" min.	-	Full crown, matching
	MV	4	<i>Magnolia virginiana</i> (Sweet Bay Magnolia)	6' min	-	-	#10 cont.	Full, matching

**SHRUBS**

	IS	35	<i>Ilex glabra 'Shamrock'</i> (Shamrock Inkberry)	24" min	24" min	-	#3 cont.	Full; Plant @ 3.5' oc
	IG	22	<i>Ilex glabra 'Gem Box'</i> (Gem Box Inkberry Holly)	15" min	18" min	-	#3 cont.	Full; Plant @ 2.5' oc
	VC	7	<i>Viburnum dentatum 'Christom'</i> (Blue Muffin Arrowwood Viburnum)	24" min	-	-	#3 cont.	Full; Plant @ 6' oc
	LH	9	<i>Itea virginica 'Little Henry®'</i> (Little Henry Sweetspire)	18" min	18" min	-	#3 cont.	Full; Plant @ 3.5' oc
	CA	6	<i>Callicarpa americana 'Atropurpurea'</i> (Purple Beautyberry)	18" min	18" min	-	#3 cont.	Full; Plant @ 5' oc
	CO	5	<i>Cephalanthus occidentalis 'Sputnik'</i> (Sputnik Buttonbush)	24" min	24" min	-	#3 cont.	Full; Plant @ 3' oc
	AA	2	<i>Aronia arbutifolia 'Brilliantissima'</i> (Chokeberry)	30" min	30" min	-	#3 cont.	Full; Plant @ 5' oc
	RG	37	<i>Rhus x 'Grow Low'</i> (Grow Low Sumac)	18" min	18" min	-	#3 cont.	Full; Plant @ 4' oc

**GRASSES AND PERENNIALS**

	AG	182	<i>Acorus gramineus 'Ogon'</i> (Ogon Sweet Flag)	-	-	-	#1 cont.	Full; Plant @ 1' oc
	PV	245	<i>Panicum virgatum 'Northwind'</i> (Upright Switchgrass)	-	-	-	#3 cont.	Full; Plant @ 3' oc
	EU	13	<i>Eupatorium 'Baby Joe'</i> (Dwarf Joe Pye Weed)	-	-	-	#1 cont.	Full; Plant @ 18" oc
	PA	19	<i>Pennisetum alopecuroides 'Foxtrot'</i> (Giant Fountain Grass)	-	-	-	#3 cont.	Full; Plant @ 5' oc
	RF	31	<i>Rudbeckia fulgida 'Goldsturm'</i> (Black-Eyed Susan)	-	-	-	#1 cont.	Full; Plant @ 18" oc
	HS	72	<i>Hemerocallis 'Stella d'Oro'</i> (Stella d'Oro Daylily)	-	-	-	#1 cont.	Full; Plant @ 18" oc
	PS	72	<i>Panicum virgatum 'Shenandoah'</i> (Shenandoah Switchgrass)	-	-	-	#1 cont.	Full; Plant @ 3' oc

**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.
2. SMALL TREE      MULTI-STEM      10' (HEIGHT)
3. SHRUB      8' (HEIGHT) AND 1.5" CAL.

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 (b) 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 (E) 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) 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 1.76 ACRE SITE:

LARGE TREES (5 x 1.76 ACRE) = 9 2 SHOWN  
SMALL TREES (10 x 1.76 ACRE) = 18 7 SHOWN\*  
SHRUBS (25 x 1.76 ACRE) = 44 44 SHOWN

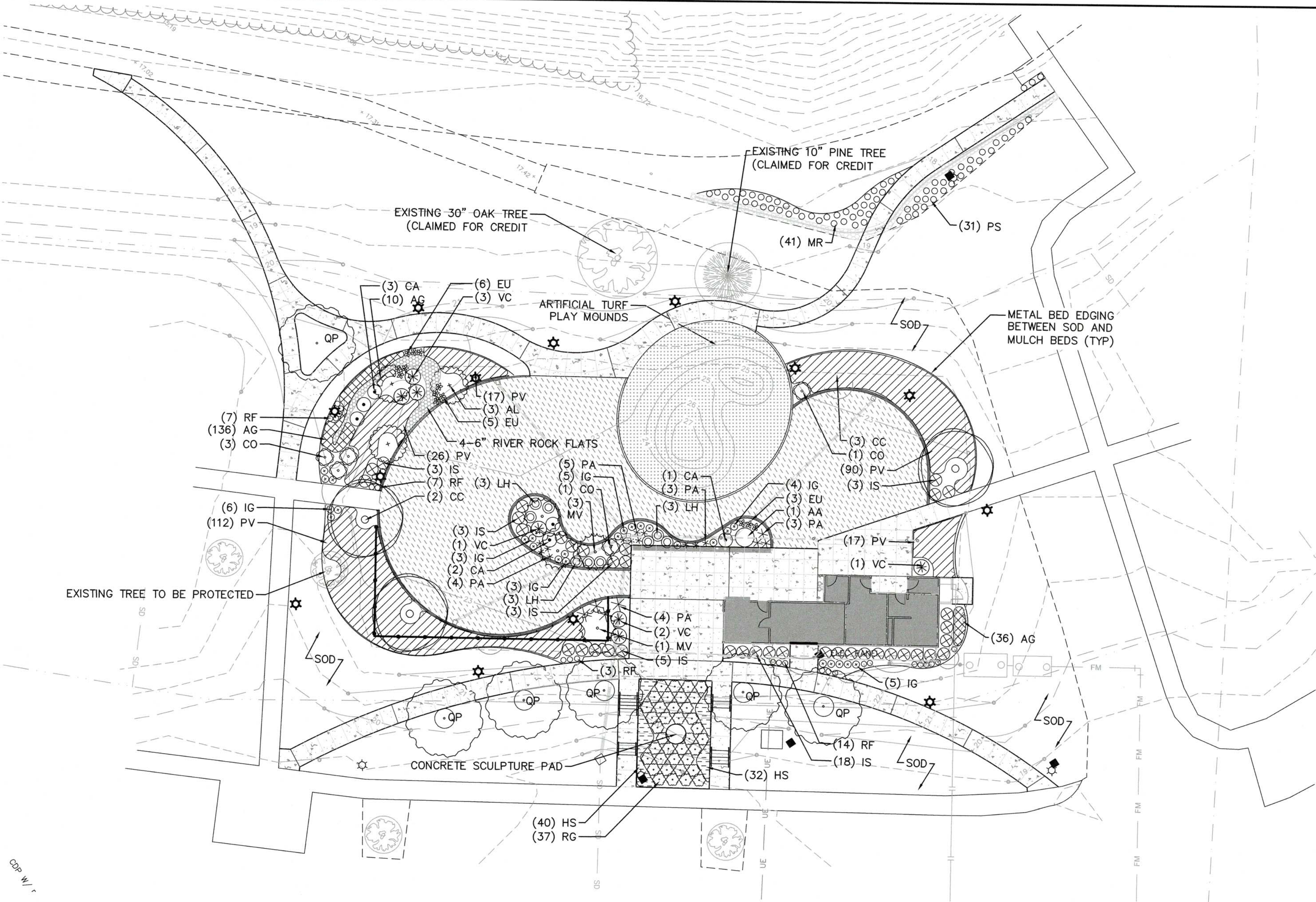
EXISTING VEGETATION CLAIMED PER SEC 9-4-265(D)(1):

\* ONE 10" PINE FOR 4 SMALL TREES  
ONE 4" REDBUD FOR 2 SMALL TREES  
ONE 30" OAK FOR 5 SMALL TREES

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 BUFFERYARDS: N/A  
(AREA OF DISTURBANCE NOT ADJACENT TO PROPERTY LINE)

D. REQUIRED VEGETATION LOCATED IN PUBLIC UTILITY OR DRAINAGE EASEMENTS: NONE



**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.
2. SMALL TREE      MULTI-STEM      10' (HEIGHT)
3. SHRUB      8' (HEIGHT) AND 1.5" CAL.

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 (b) 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 (E) 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) 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 1.76 ACRE SITE:

LARGE TREES (5 x 1.76 ACRE) = 9 2 SHOWN  
SMALL TREES (10 x 1.76 ACRE) = 18 7 SHOWN\*  
SHRUBS (25 x 1.76 ACRE) = 44 44 SHOWN

EXISTING VEGETATION CLAIMED PER SEC 9-4-265(D)(1):

\* ONE 10" PINE FOR 4 SMALL TREES  
ONE 4" REDBUD FOR 2 SMALL TREES  
ONE 30" OAK FOR 5 SMALL TREES

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 BUFFERYARDS: N/A  
(AREA OF DISTURBANCE NOT ADJACENT TO PROPERTY LINE)

D. REQUIRED VEGETATION LOCATED IN PUBLIC UTILITY OR DRAINAGE EASEMENTS: NONE

**PRELIMINARY**  
DO NOT USE FOR  
CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK
A	04.29.22	50% OWNER REVIEW		
B	05.13.22	ISSUE FOR C.O.G. SITE PLAN REVIEW		
C	05.27.22	ISSUE FOR BID		

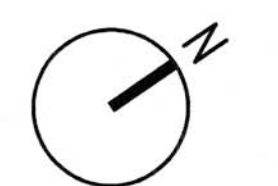
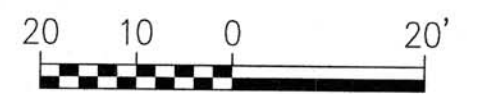
REG. PROJECT NO.  
CLIENT PROJECT NO.

PROJECT TITLE  
**Greenville**  
NORTH CAROLINA

WILDWOOD PARK  
WELCOME CENTER  
& PLAYGROUND SITE

DRAWING TITLE  
**PLANTING PLAN  
& SCHEDULE**

DRAWING NO.  
**L4.1**



This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. (© Copyright, The East Group, P.A., 2021)



**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 1/2" 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 arrangement and outlines of planting beds as indicated on the drawings. Prior to any excavation of plant pits or preparation of planting 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.

**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:

Soil Texture	Tons/Acre	Lbs/1000 sq ft
Clay and clay loam and high organic soil	4	180
Sandy loam, loam, silt loam	3	135
Loamy sand, sand	2	90

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 retiled and firmed as above.

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

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

On slopes greater than 3 to 1, secure sod to surface soil with wood pegs, wire staples, or split shingles (8 to 10 inches long by 3/4 inch wide). When surface water cannot be diverted from flowing over the face of the slope, provide a capping strip of

heavy jute or plastic netting, properly secured, along the crown of the slope and edges to provide extra protection against lifting and undercutting of the sod. The same technique can be used to anchor sod in water-carrying channels and other critical area. Wire staples must be used to anchor netting in channel work.

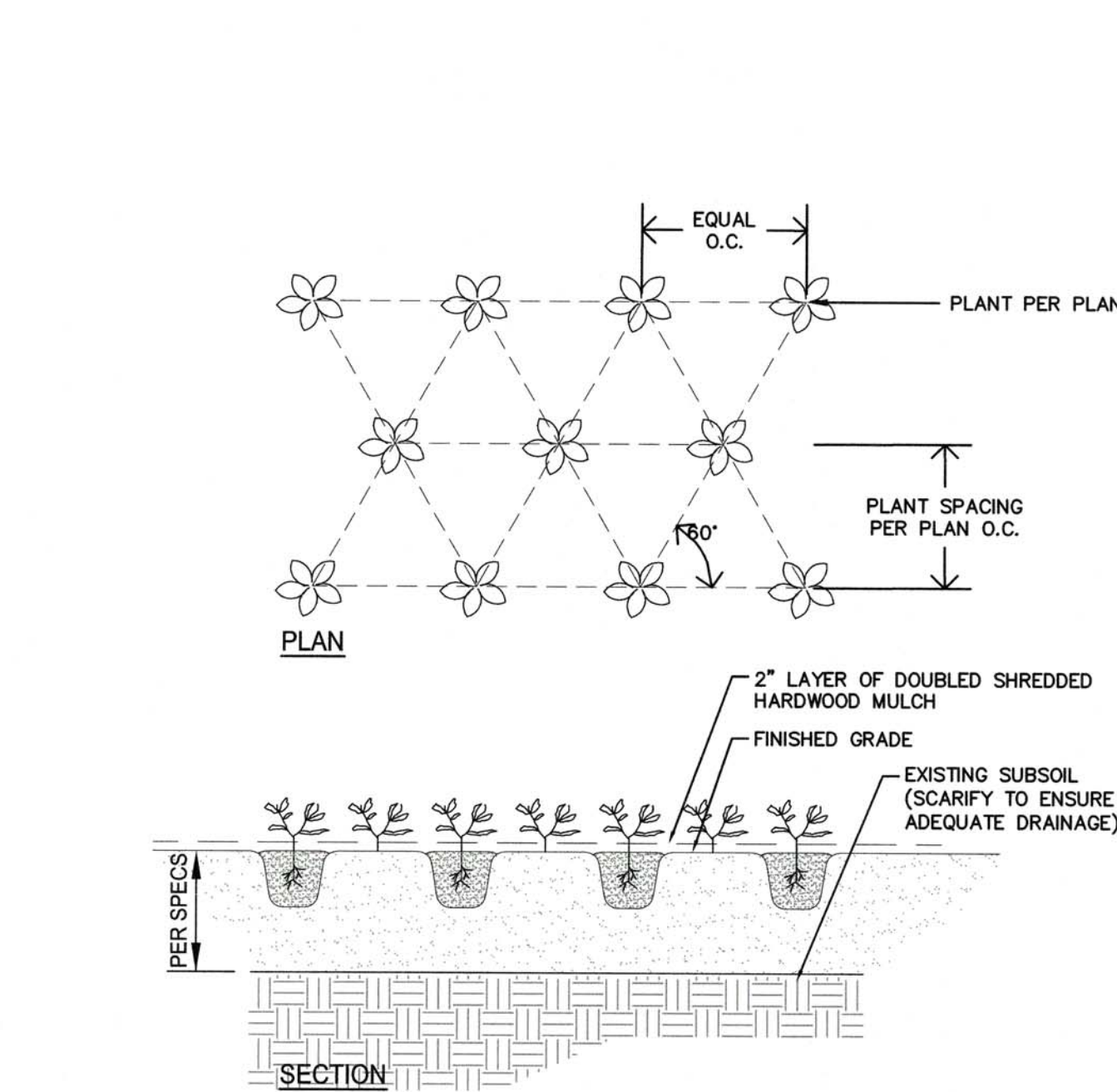
**Watering -** immediately following installation, sod should be watered until moisture penetrates the soil layer beneath sod to a depth of 4 inches. The Contractor shall insure the maintenance of optimum moisture for at least two weeks.

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

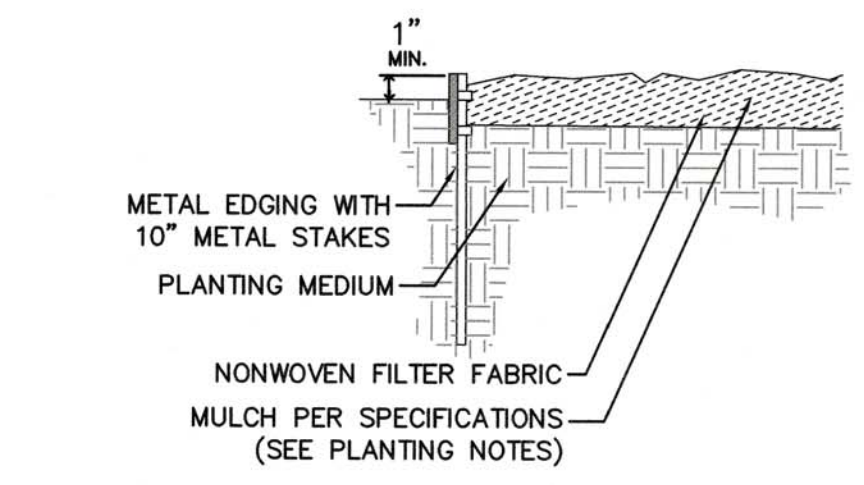
**Protection -** The Contractor shall provide adequate protection for lawn areas at all times against damage of any kind during installation or other related operations. Such protection shall be maintained from the completion of site preparation to the completion of Contract work.

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

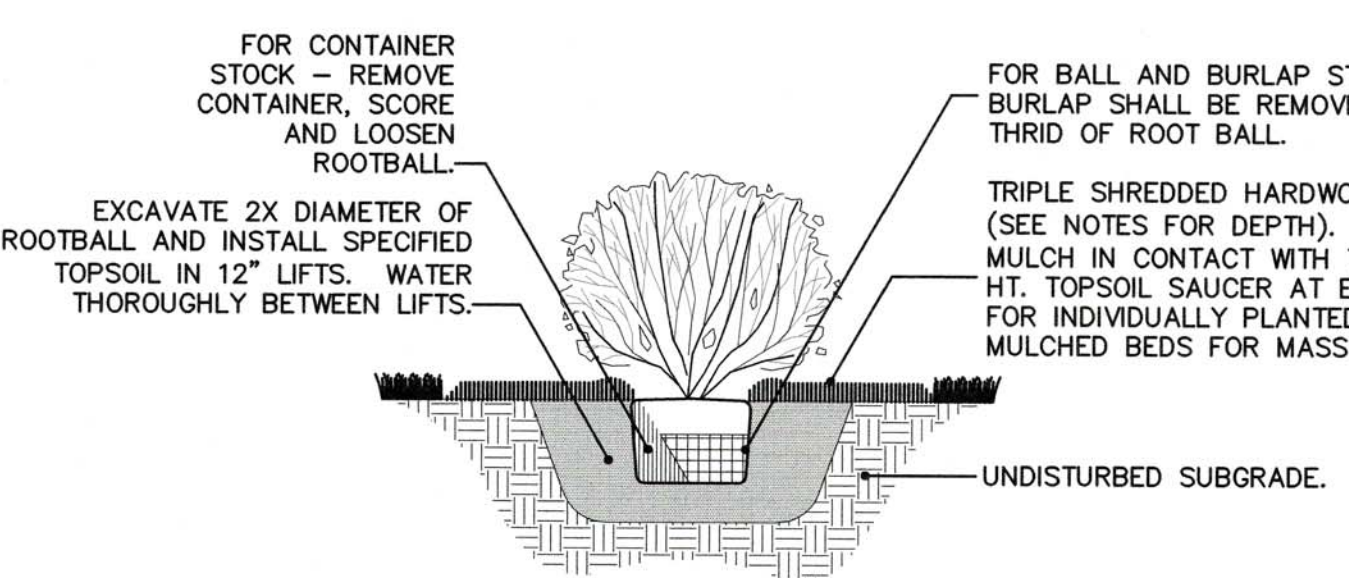
**Guarantee -** The Contractor shall guarantee that upon completion and acceptance of the work, all portions thereof will be in accordance with the Contract and specifications. The same condition shall remain for a period of one year. The Contractor shall further warrant that during the period of the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



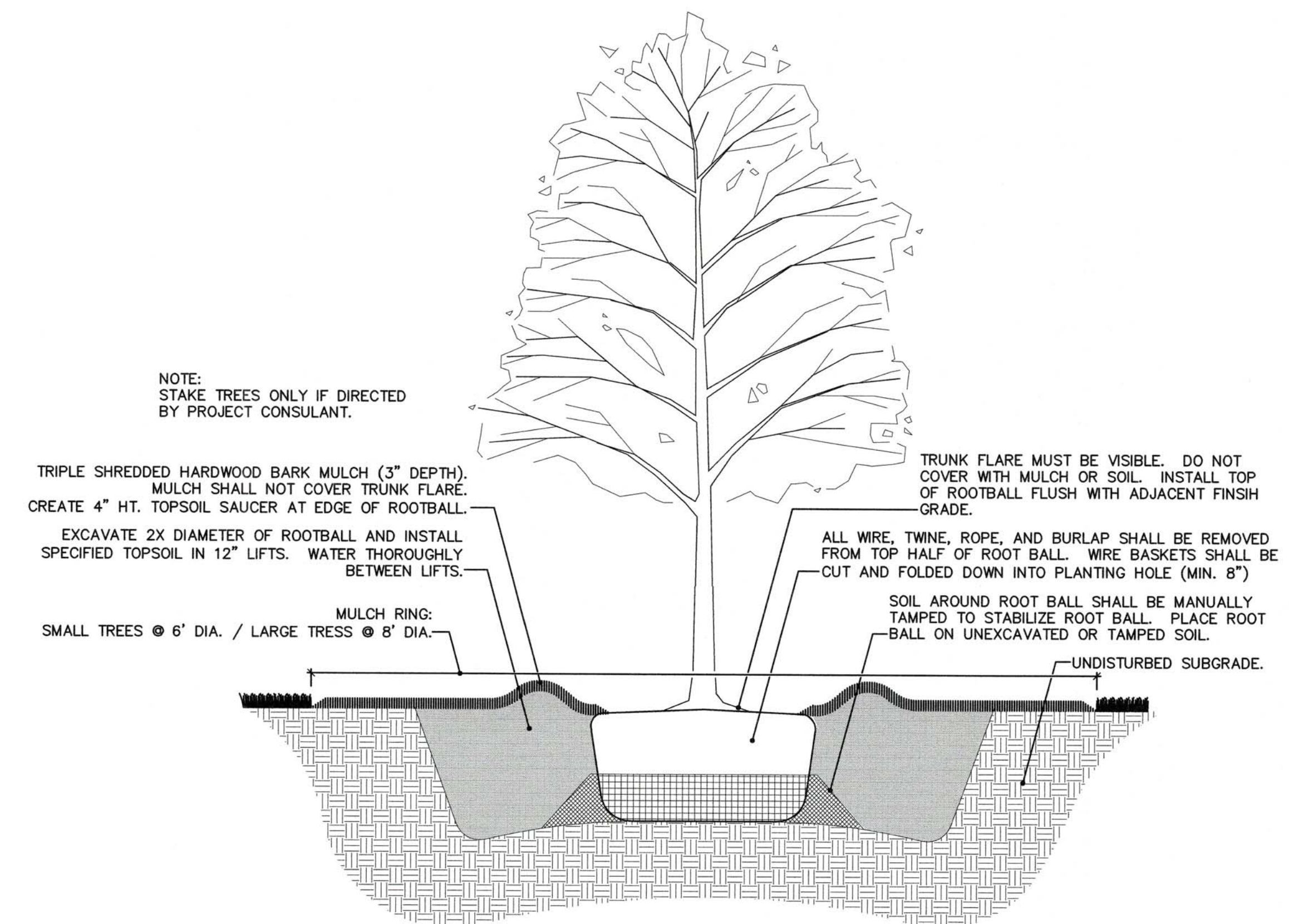
1 GROUNDCOVER/ GRASS PLANTING DETAIL  
L4.2 N.T.S.



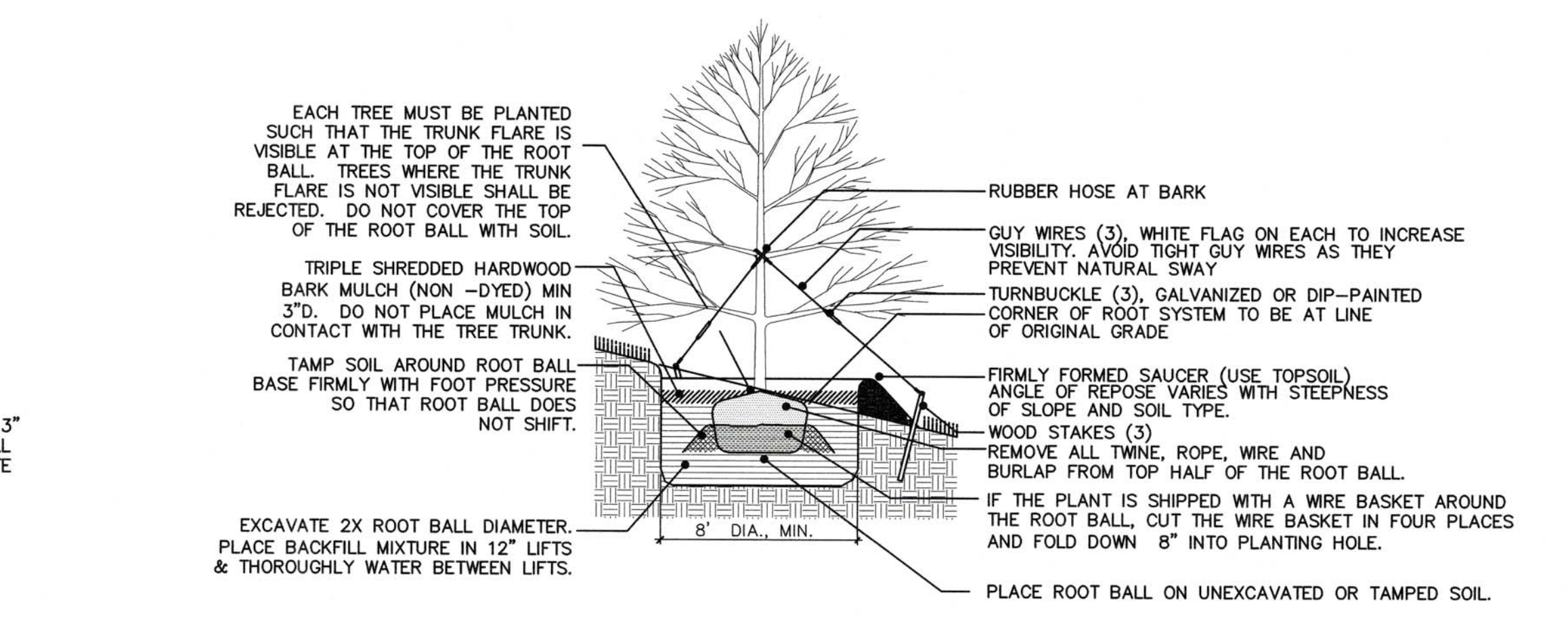
2 METAL PLANT BED EDGING  
L4.2 N.T.S.



3 SHRUB PLANTING DETAIL  
L4.2 N.T.S.



4 TREE PLANTING DETAIL  
L4.2 N.T.S.



5 TREE PLANTING ON SLOPE  
L4.2 N.T.S.

**THE EAST GROUP**  
 • Engineering • Architecture  
 • Surveying • Technology  
 • Corporate Office  
 324 Evans Street  
 Greenville, NC 27838  
 Tel 252.758.3746  
 Fax 252.830.3954  
 • Branch Office  
 4325 Lake Boone Trail, Suite 311  
 Raleigh, NC 27607  
 Tel 919.784.9330  
 Fax 919.784.9331  
 • NC Engineering License No. C-0206  
 NC Architectural License No. 50213  
 NC Landscape Architectural License No. C-427



**PRELIMINARY**  
DO NOT USE FOR CONSTRUCTION

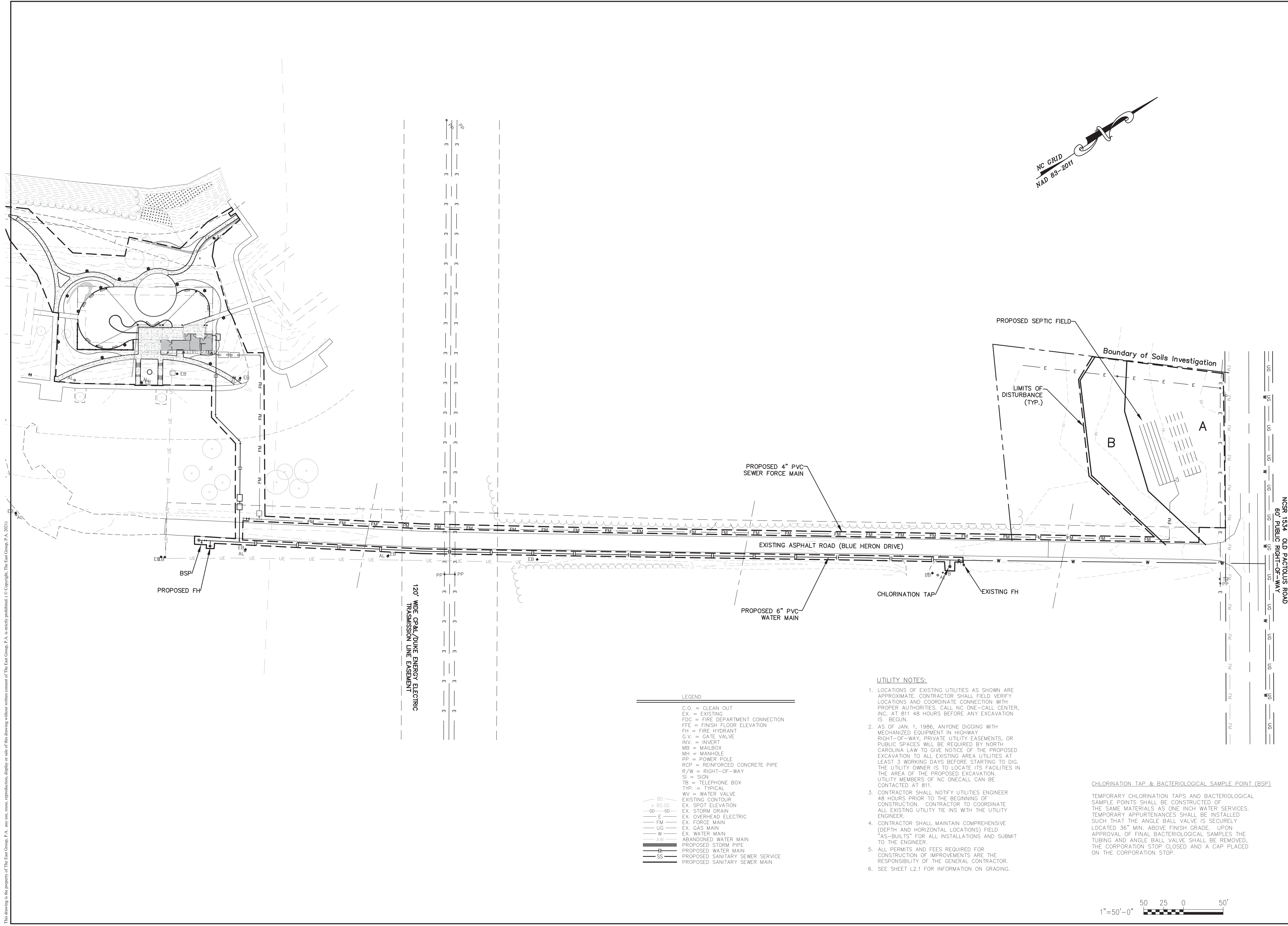
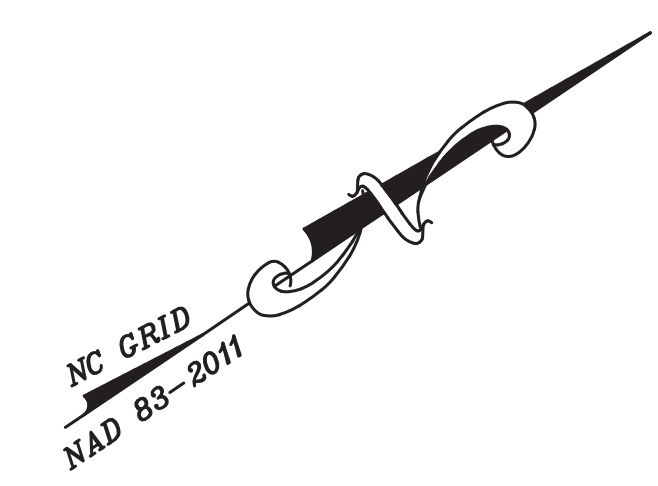
REV.	DATE	DESCRIPTION
A	04/29/22	5%K OWNER REVIEW
B	05/13/22	ISSUE FOR C.O.C. SITE PLAN REVIEW
C	05/27/22	ISSUE FOR BID

PROJECT TITLE  
**Greenville**  
 NORTH CAROLINA  
 WILDWOOD PARK  
 WELCOME CENTER  
 & PLAYGROUND SITE

DRAWING NO.  
**L4.2**

This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing, without written consent of The East Group, P.A. is strictly prohibited. (C Copyright, The East Group, P.A. 2021)





This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. (© Copyright, The East Group, P.A., 2021)

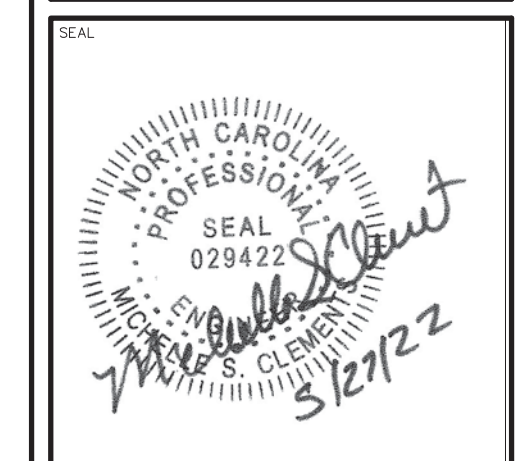
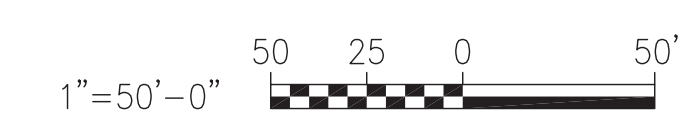
**LEGEND**

— C.O.	= CLEAN OUT
— EX.	= EXISTING
— FDC	= FIRE DEPARTMENT CONNECTION
— FFE	= FINISH FLOOR ELEVATION
— FH	= FIRE HYDRANT
— G.V.	= GATE VALVE
— INV.	= INVERT
— MB	= MAILBOX
— MH	= MANHOLE
— PP	= POWER POLE
— RCP	= REINFORCED CONCRETE PIPE
— R/W	= RIGHT-OF-WAY
— SI	= SIGN
— TB	= TELEPHONE BOX
— TYP.	= TYPICAL
— WV	= WATER VALVE
—	= EXISTING CONTOUR
—	= EX. SPOT ELEVATION
—	= EX. STORM DRAIN
— E	= EX. OVERHEAD ELECTRIC
— FM	= EX. FORCE MAIN
— UG	= EX. GAS MAIN
— W	= EX. WATER MAIN
— AW	= ABANDONED WATER MAIN
—	= PROPOSED STORM PIPE
—	= PROPOSED WATER MAIN
—	= PROPOSED SANITARY SEWER SERVICE
—	= PROPOSED SANITARY SEWER MAIN

- UTILITY NOTES:**
- 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.
  - 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.
  - 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.
  - CONTRACTOR SHALL MAINTAIN COMPREHENSIVE (DEPTH AND HORIZONTAL LOCATIONS) FIELD "AS-BUILTS" FOR ALL INSTALLATIONS AND SUBMIT TO THE ENGINEER.
  - ALL PERMITS AND FEES REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
  - 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.



**PRELIMINARY**  
 DO NOT USE FOR CONSTRUCTION

REV	DATE	DESCRIPTION	CHK	BY
A	04.29.22	ISSUE OWNER REVIEW		
B	05.13.22	ISSUE FOR SITE PLAN REVIEW		

PROJECT NO. 20220005  
 CLIENT PROJECT NO. ---

**Greenville**  
 NORTH CAROLINA

**WILDWOOD PARK WELCOME CENTER & PLAYGROUND SITE**

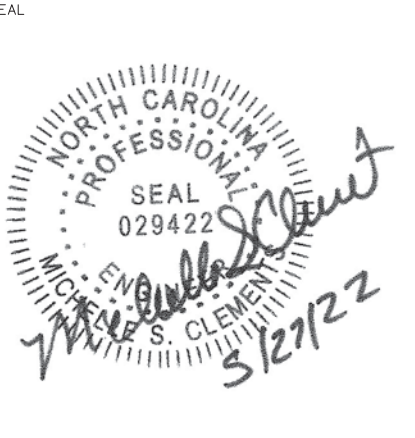
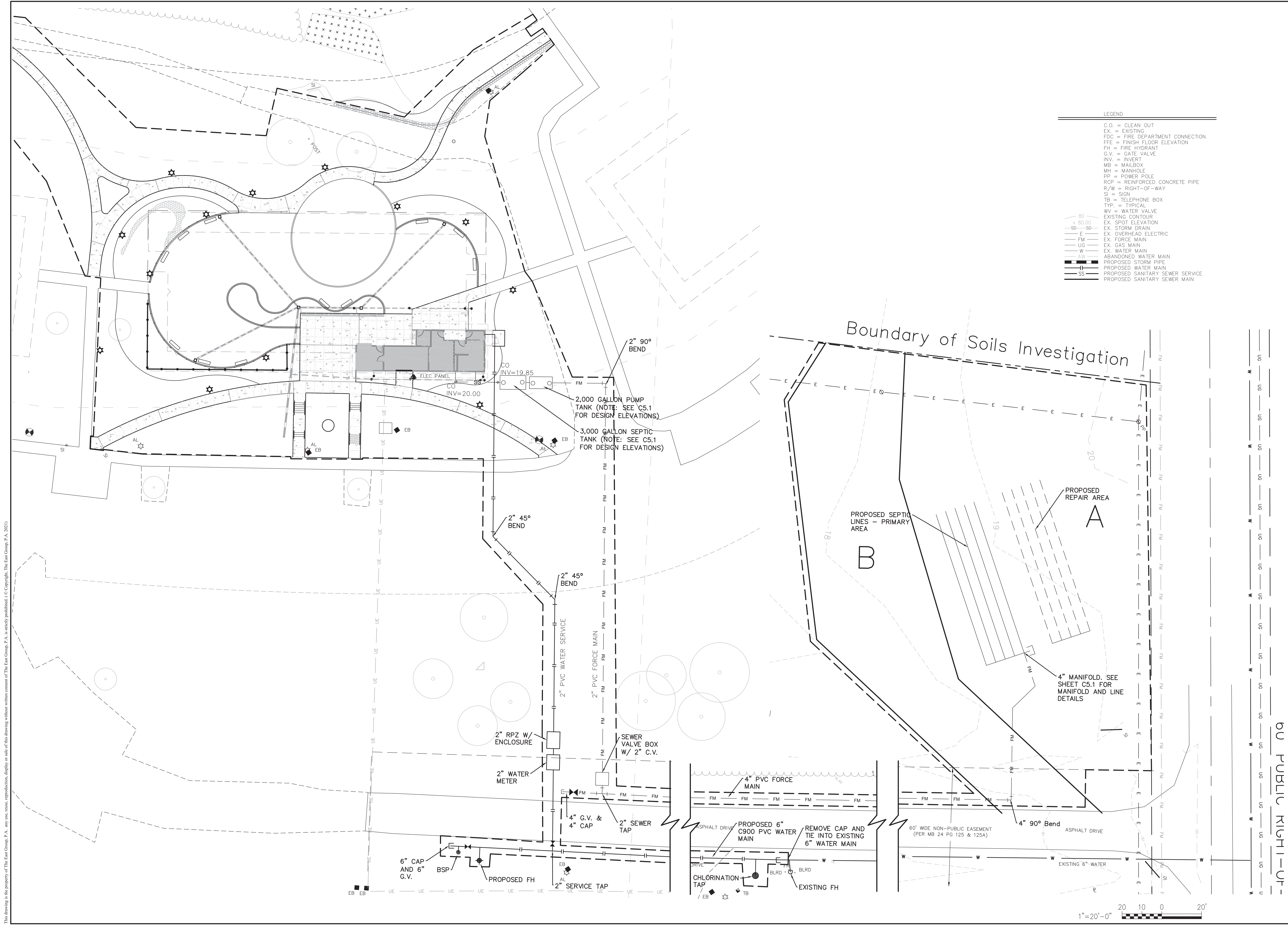
COMPOSITE UTILITY PLAN

DRAWING NO. **C3.1**  
 SHEET 12 OF 15



**LEGEND**

C.O.	=	CLEAN OUT
EX.	=	EXISTING
FDC	=	FIRE DEPARTMENT CONNECTION
FFE	=	FINISH FLOOR ELEVATION
FH	=	FIRE HYDRANT
G.V.	=	GATE VALVE
INV.	=	INVERT
MB	=	MANHOLE
MH	=	MANHOLE
PP	=	POWER POLE
RCP	=	REINFORCED CONCRETE PIPE
R/W	=	RIGHT-OF-WAY
SI	=	SIGN
TB	=	TELEPHONE BOX
TYP.	=	TYPICAL
WV	=	WATER VALVE
EX.	=	EXISTING CONTOUR
EX.	=	EXISTING STORM DRAIN
E	=	EX. OVERHEAD ELECTRIC
FM	=	EX. FORCE MAIN
UG	=	EX. GAS MAIN
W	=	EX. WATER MAIN
AW	=	ABANDONED WATER MAIN
---	=	PROPOSED STORM PIPE
---	=	PROPOSED WATER MAIN
---	=	PROPOSED SANITARY SEWER SERVICE
---	=	PROPOSED SANITARY SEWER MAIN



**PRELIMINARY**  
 DO NOT USE FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK
A	04.29.22	ISSUE OWNER REVIEW		
B	05.13.22	ISSUE FOR SITE PLAN REVIEW		

PROJECT NO. \_\_\_\_\_  
 CLIENT PROJECT NO. \_\_\_\_\_

**Greenville**  
 NORTH CAROLINA

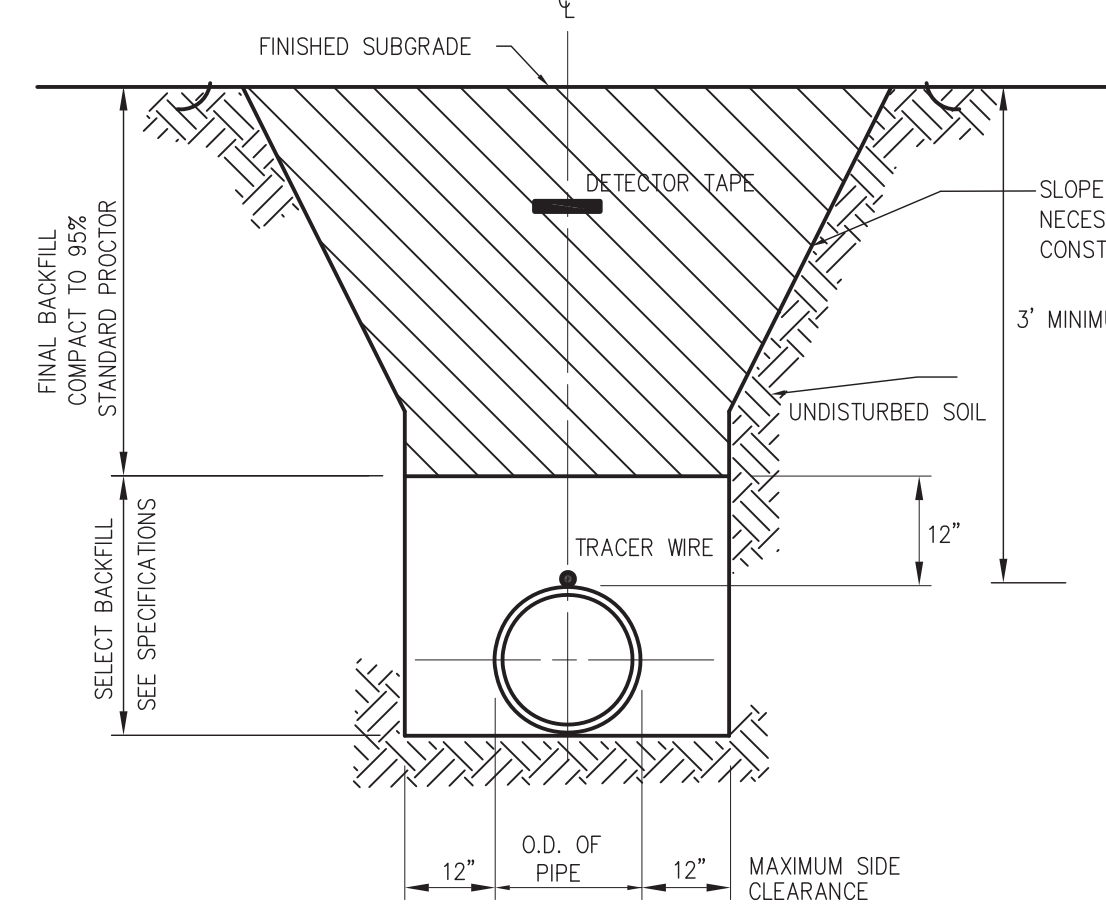
WILDWOOD PARK  
 WELCOME CENTER  
 & PLAYGROUND SITE

DRAWING TITLE  
**UTILITY PLAN**

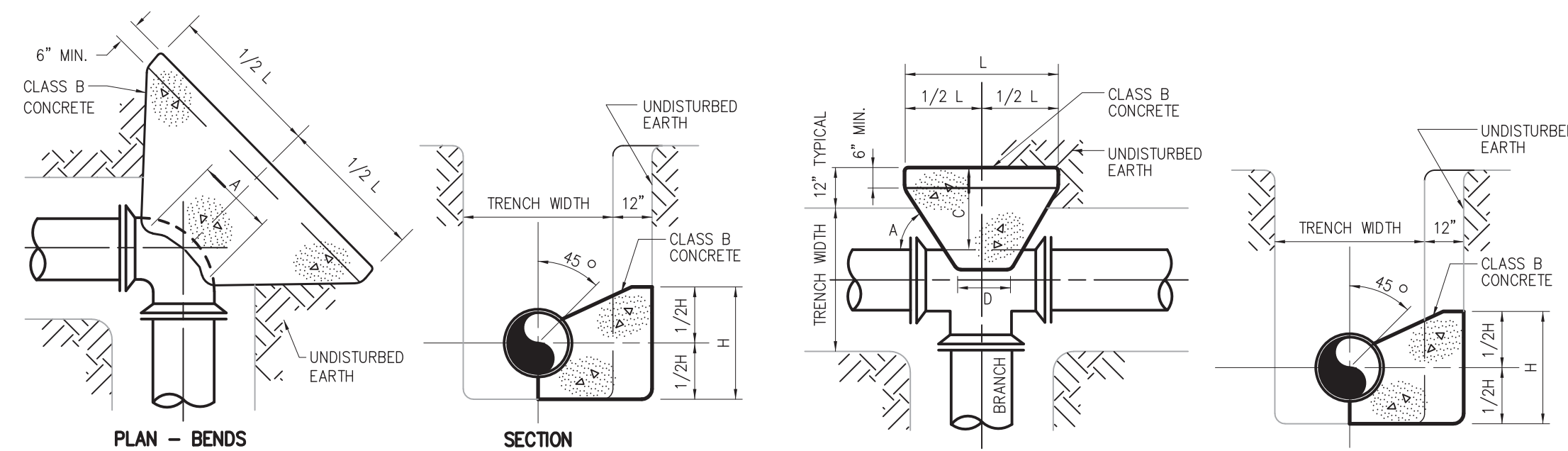
DRAWING NO.  
**C3.2**  
 SHEET 13 OF 15

This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. © Copyright, The East Group, P.A., 2021





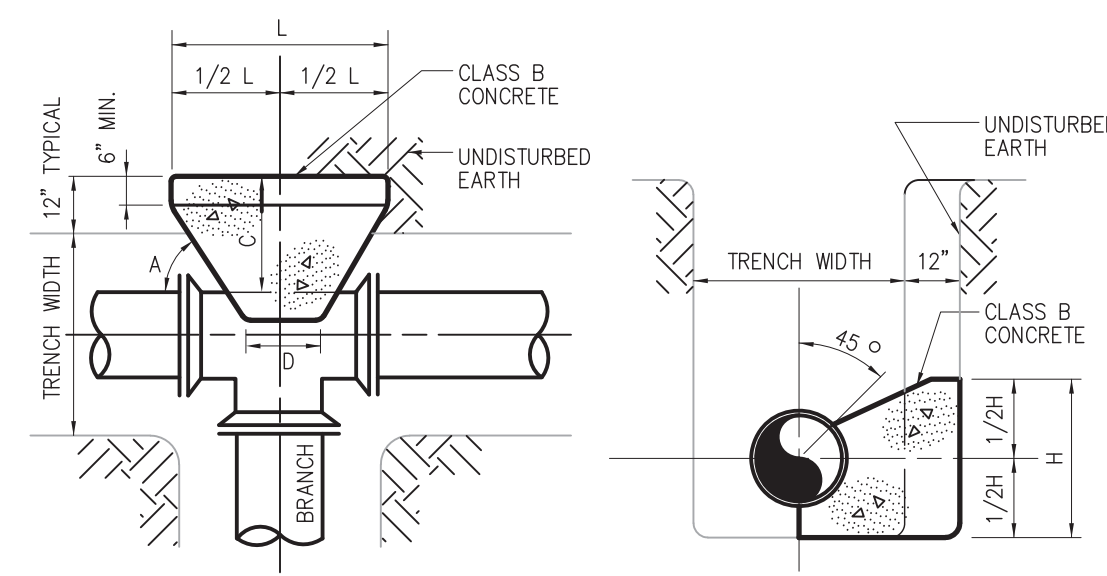
**1** WATER PIPE TRENCH  
 C4.1 N.T.S.



PIPE SIZE	BUTRESS DIMENSIONS					
	22 1/2 BENDS		45 BENDS		90 BENDS	
	L	H	L	H	L	H
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
8"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"

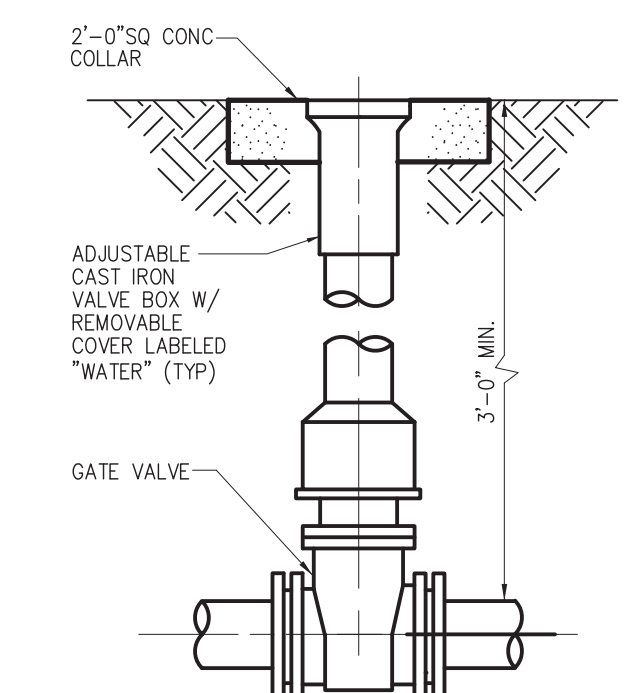
- NOTES:
- DIMENSION "A" SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH THE MECH. JOINT BOLTS.
  - THE SHAPE OF THE BACK OF THE BUTRESS MAY VARY AS LONG AS THE CONCRETE IS AGAINST FIRM, UNDISTURBED EARTH.
  - BUTRESS DIMENSIONS ARE BASED UPON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 P.S.I.

**2** THRUST BLOCKING  
 C4.1 N.T.S.

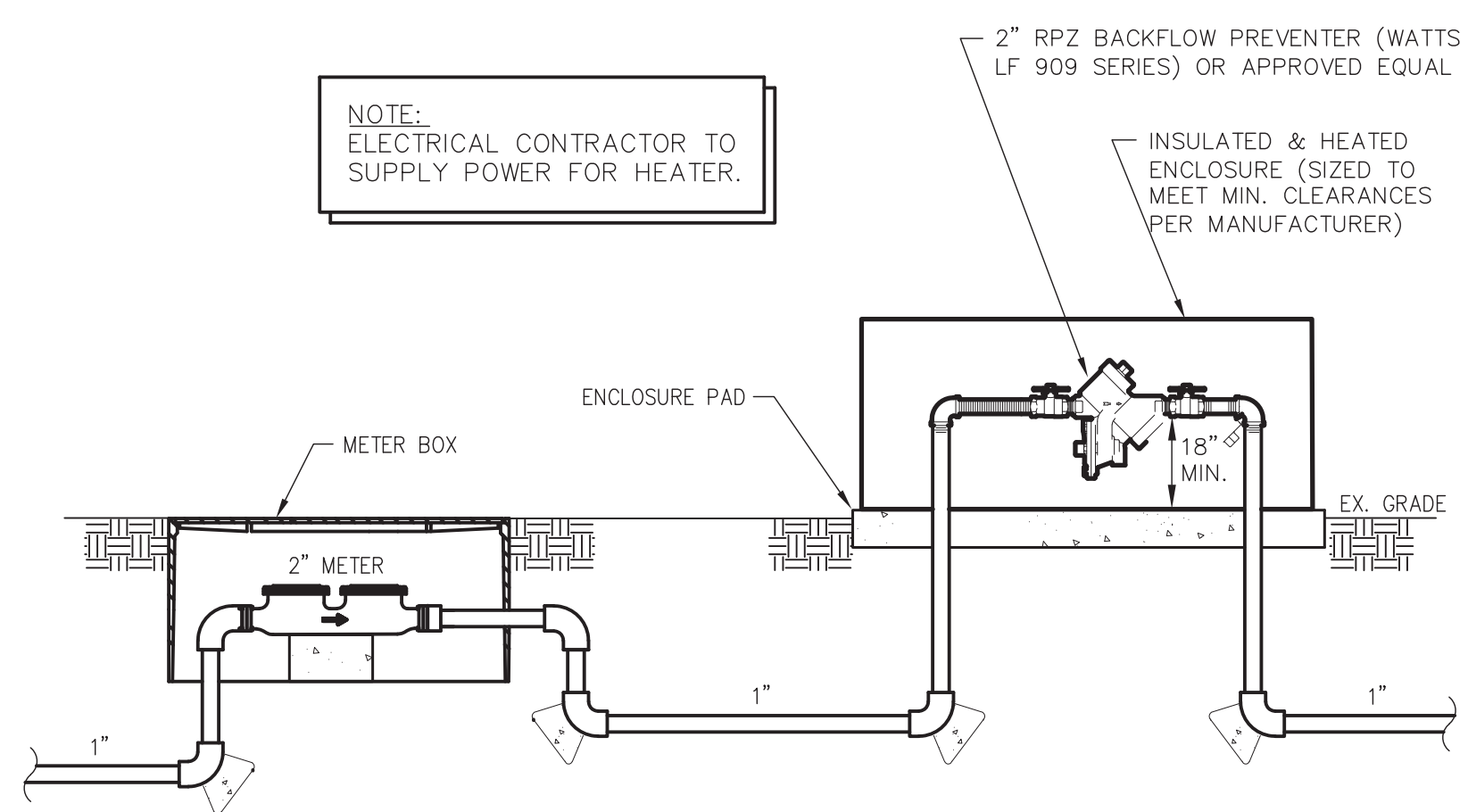


B. D.	BUTRESS DIMENSIONS			
	L	H	C	D
6"	1'-3"	1'-0"	SEE NOTE NO. 1	SEE NOTE NO. 2
8"	1'-6"	1'-4"	SEE NOTE NO. 1	SEE NOTE NO. 2
12"	2'-3"	2'-0"	SEE NOTE NO. 1	SEE NOTE NO. 2

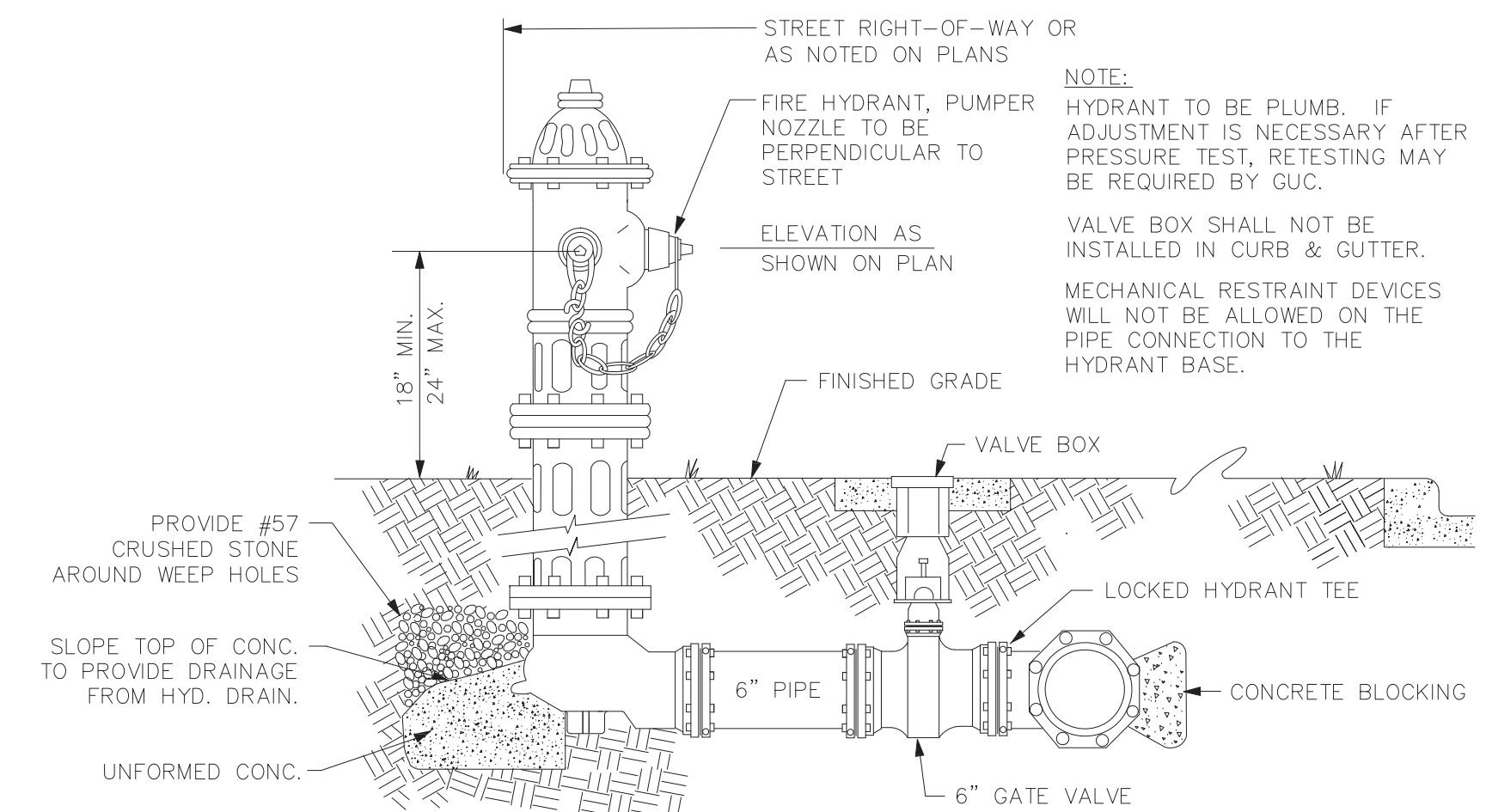
- NOTES:
- B. D. = BRANCH DIAMETER
- DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE "A" EQUAL TO OR GREATER THAN 45°.
  - DIMENSION "D" SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH THE MECHANICAL JOINTS.
  - BUTRESS DIMENSIONS ARE BASED UPON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 P.S.I.



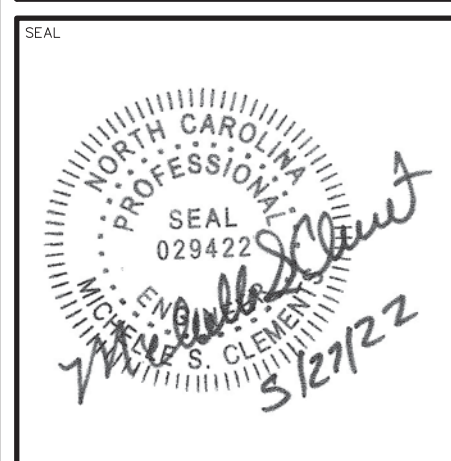
**3** VALVE BOX DETAIL  
 C4.1 N.T.S.



**4** WATER SERVICE DETAIL  
 C4.1 N.T.S.



**5** FIRE HYDRANT DETAIL  
 C4.1 N.T.S.



**PRELIMINARY**  
 DO NOT USE FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK
A	04.29.22	ISSUE OWNER REVIEW		
B	05.13.22	ISSUE FOR SITE PLAN REVIEW		

TGC PROJECT NO. 20220005

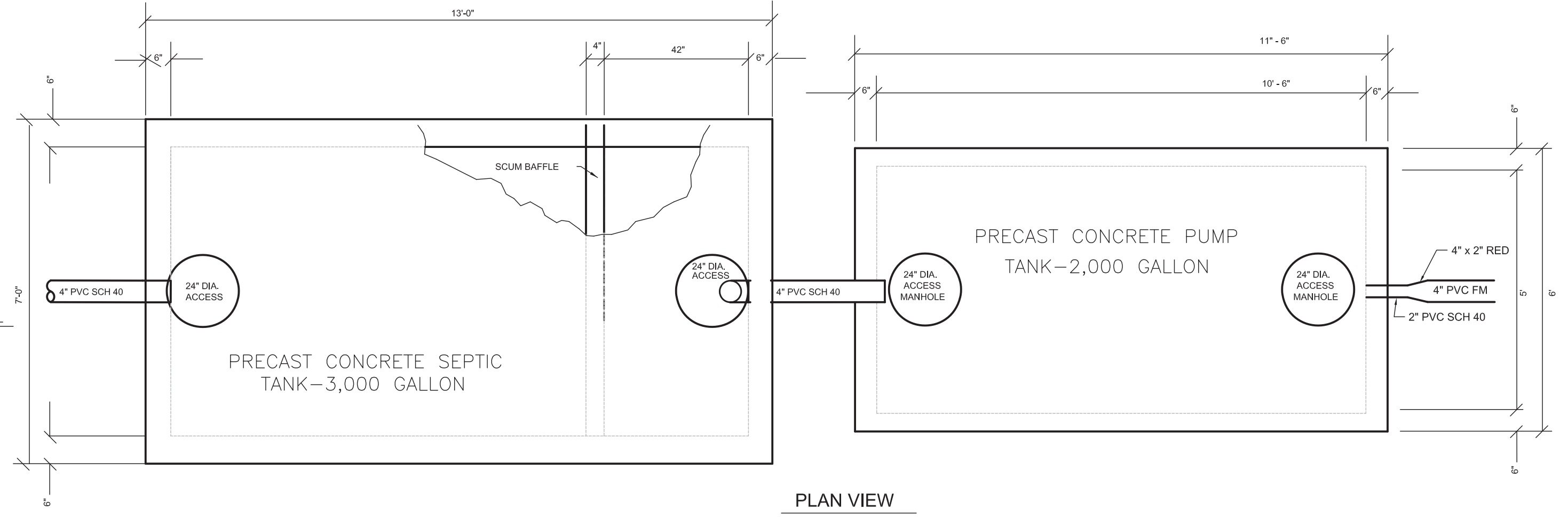
CLIENT PROJECT NO. ---

PROJECT TITLE  
**Greenville**  
 NORTH CAROLINA  
 WILDWOOD PARK  
 WELCOME CENTER  
 & PLAYGROUND SITE

DRAWING TITLE  
 UTILITY DETAILS  
 -WATER

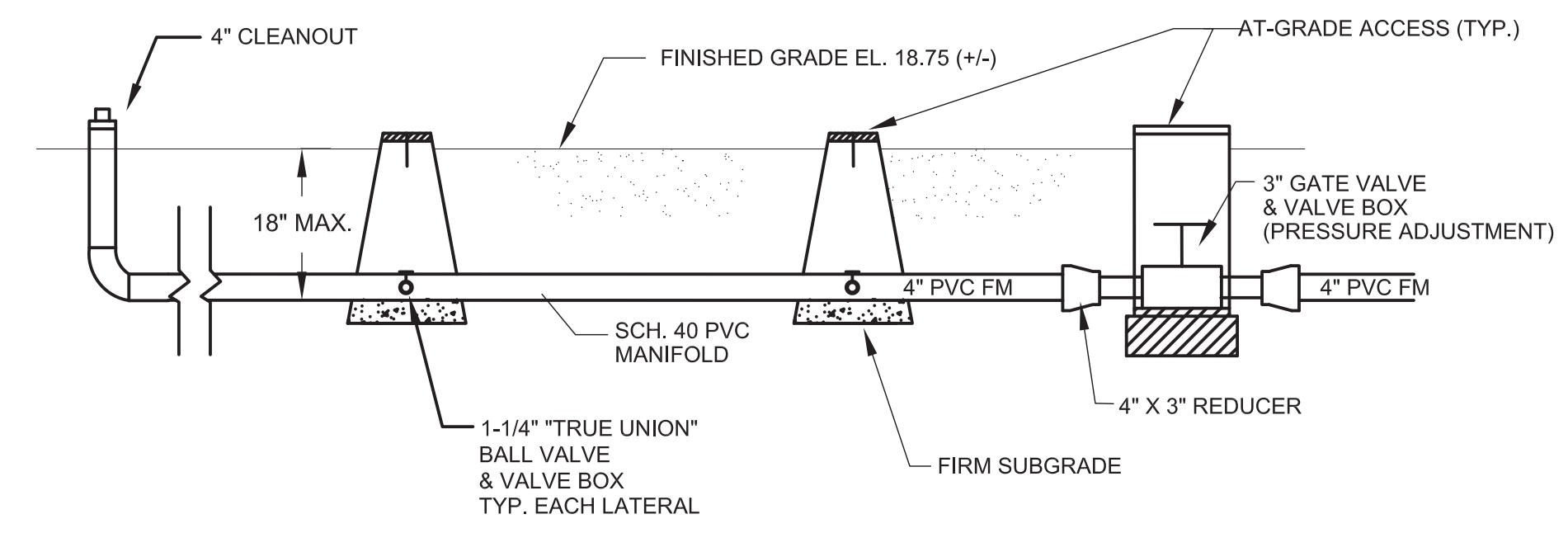
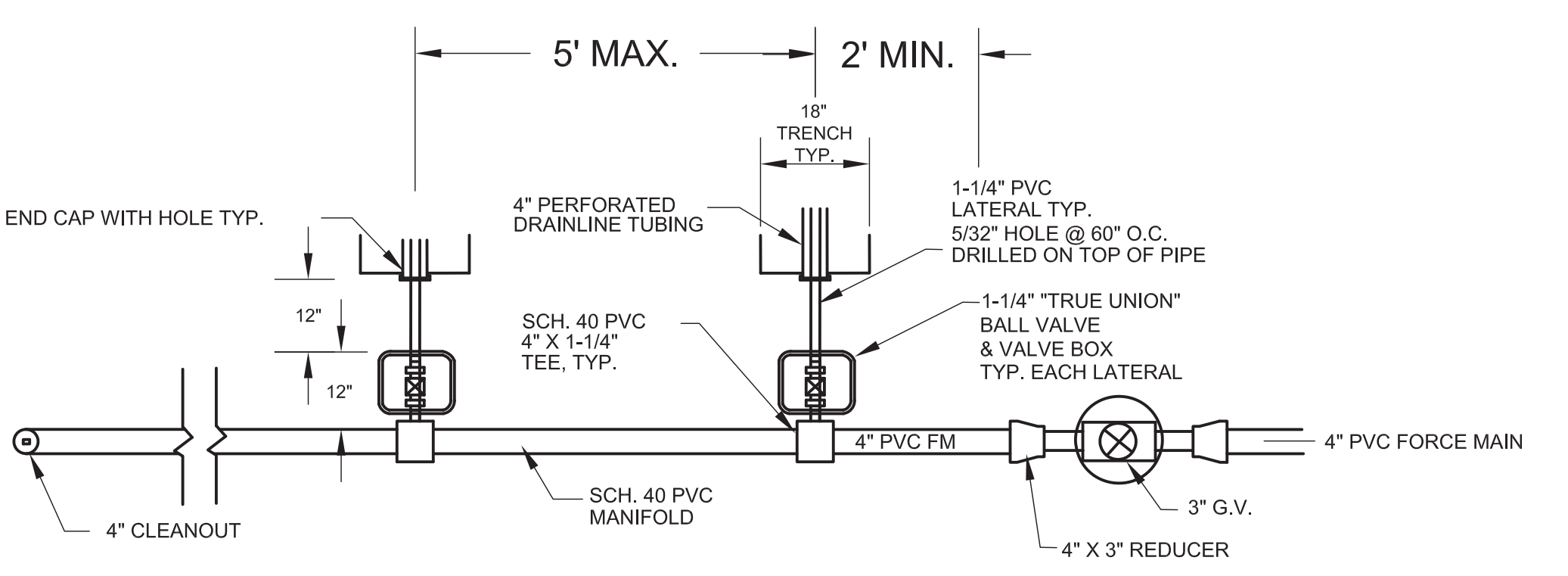
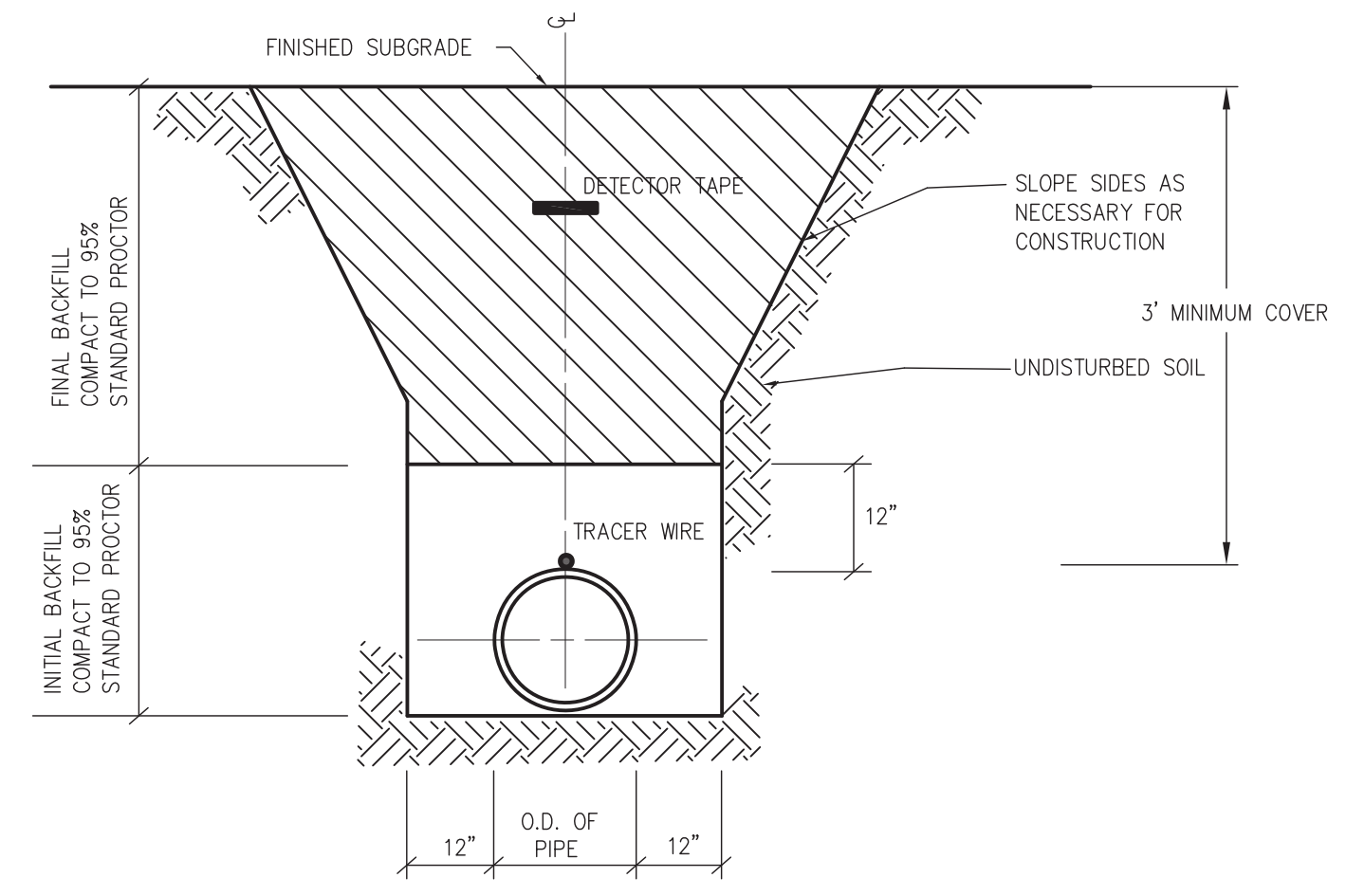
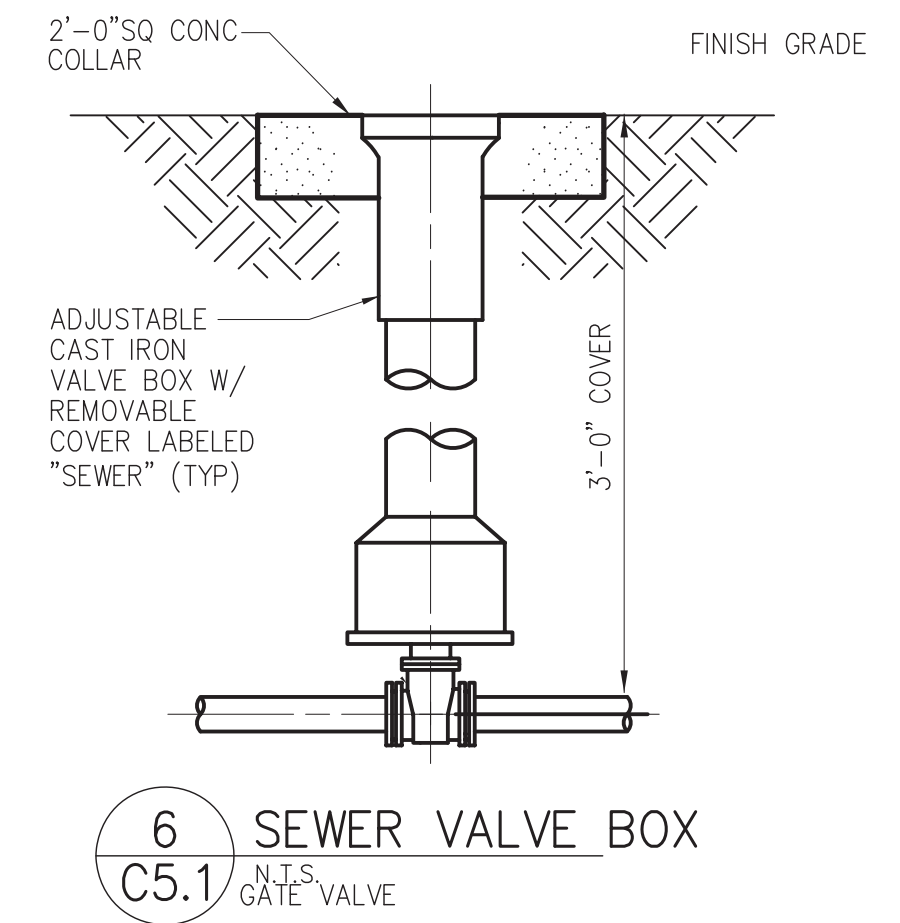
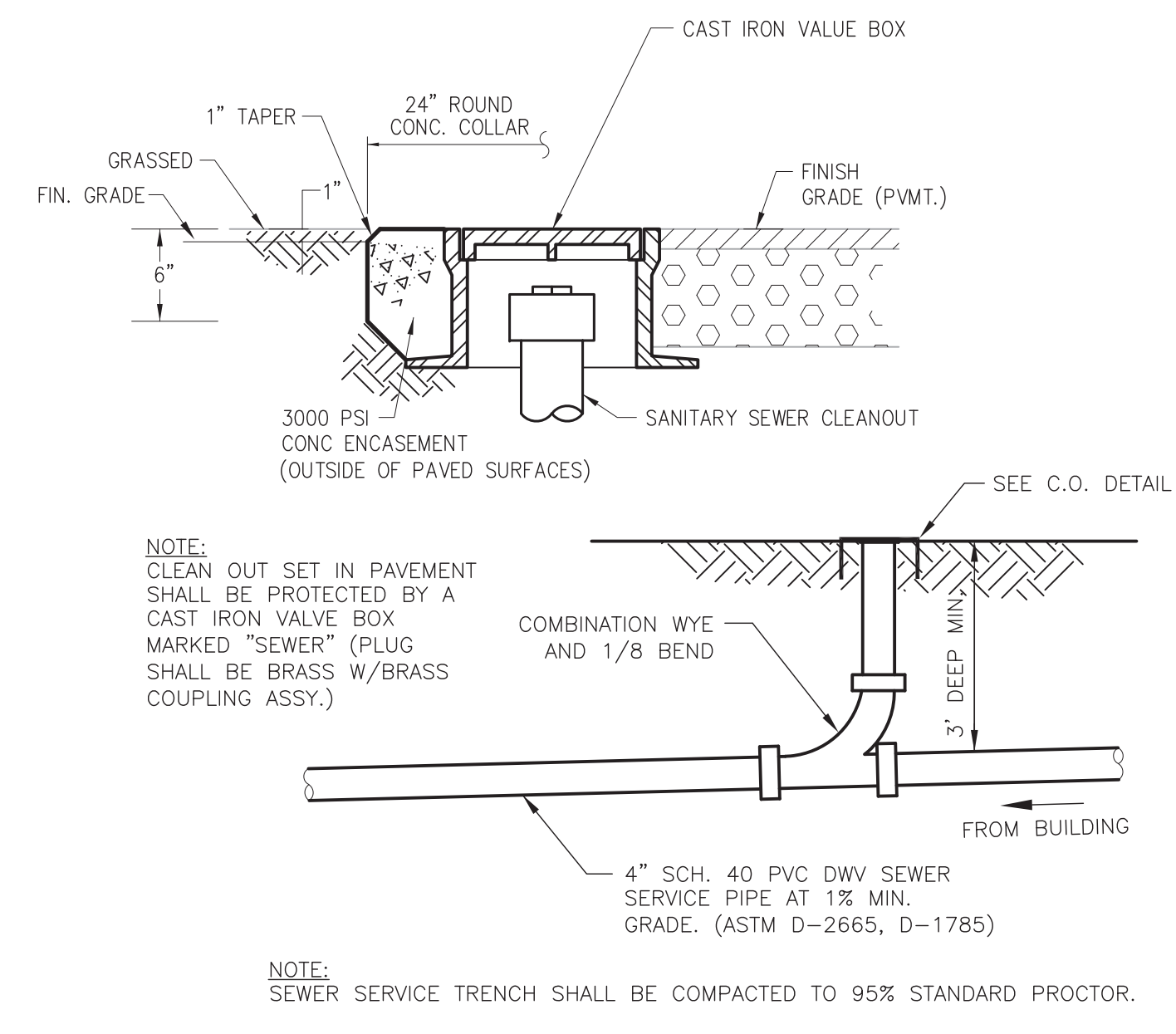
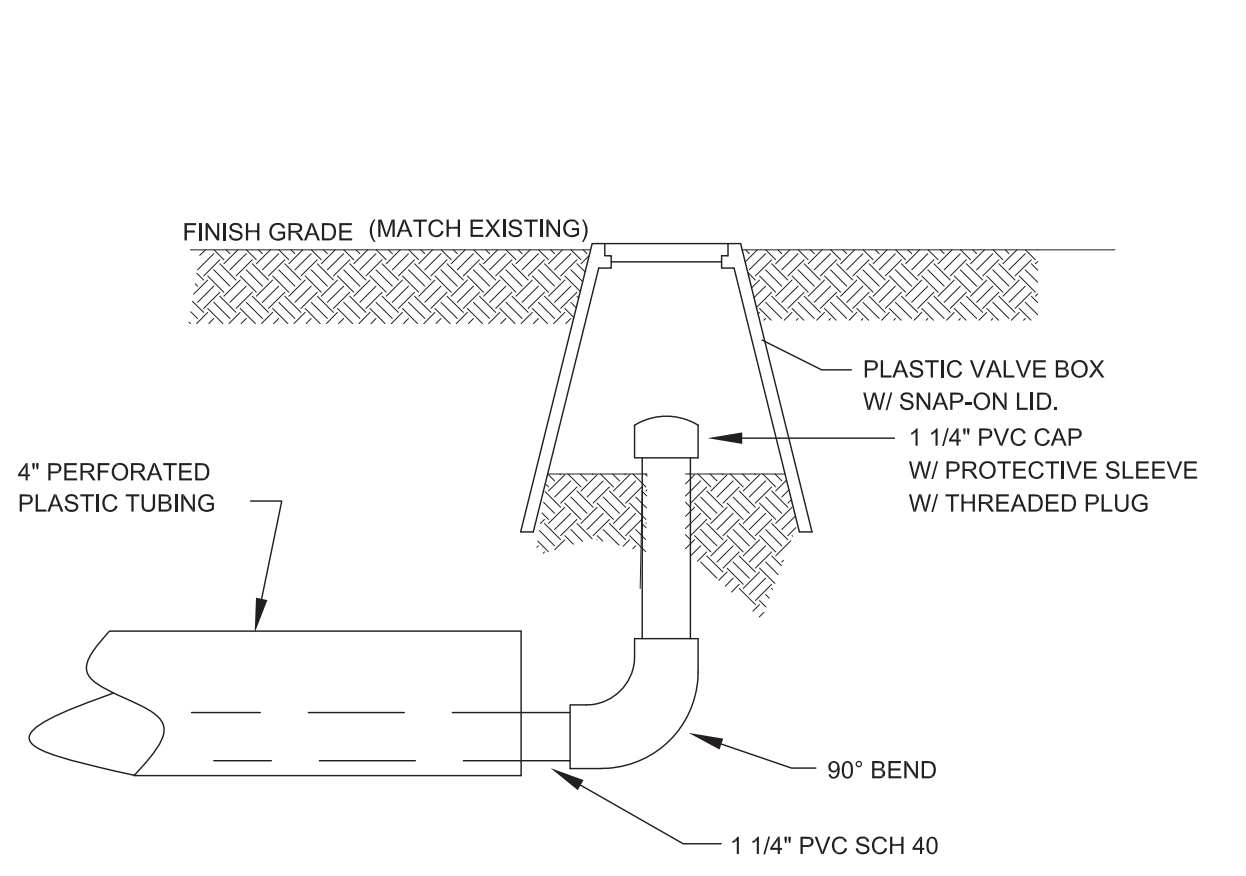
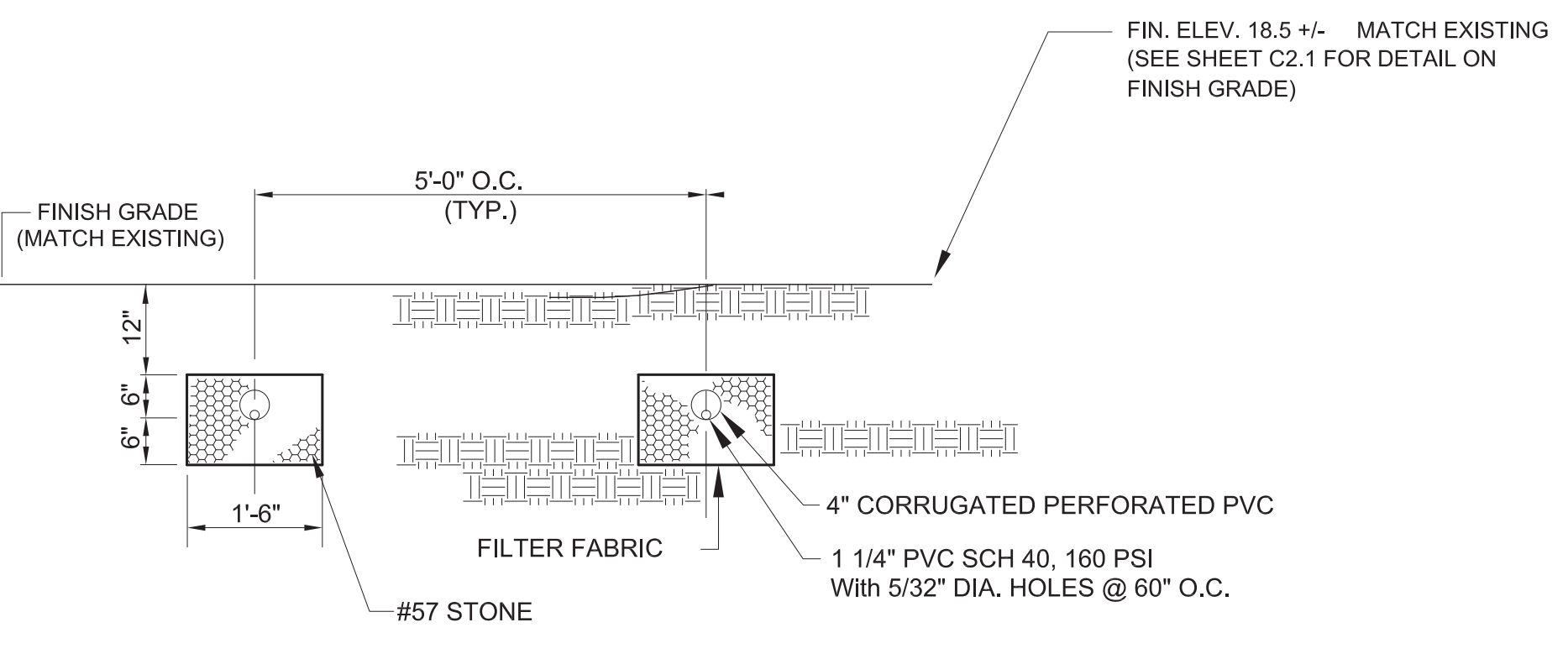
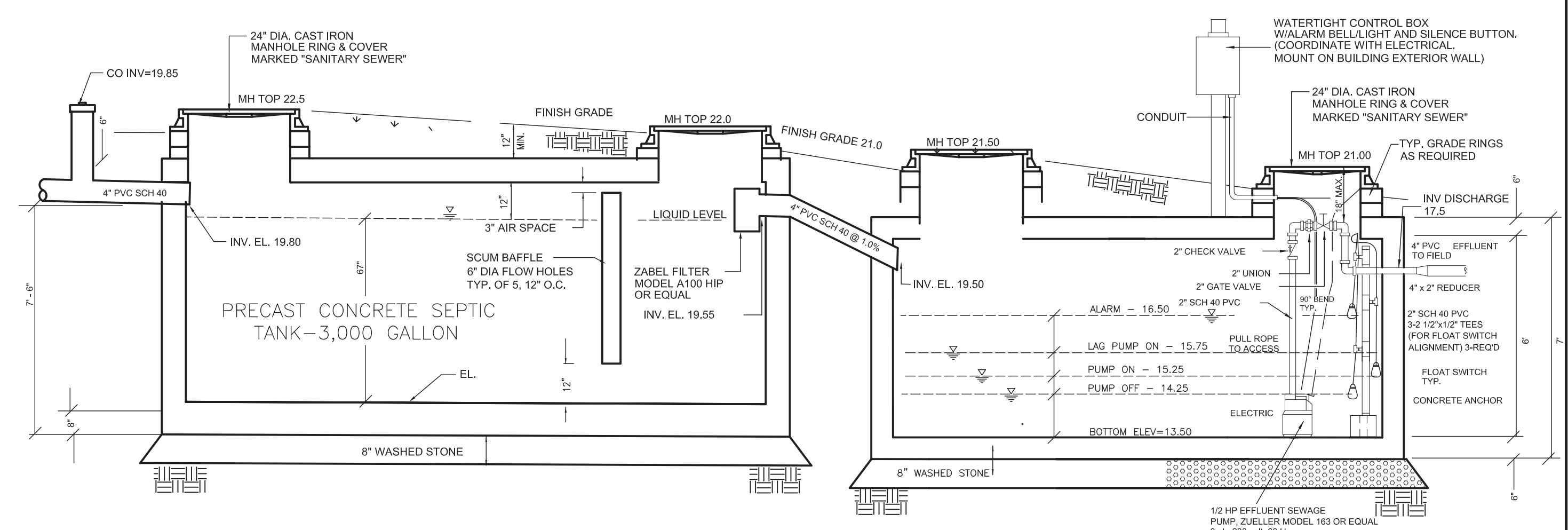
DRAWING NO.  
**C4.1**  
 SHEET 14 OF 15





1 3,000 GALLON SEPTIC TANK DETAIL  
 C5.1 N.T.S.

2 2,000 GALLON PUMP TANK DETAIL  
 C5.1 N.T.S.



**PRELIMINARY**  
 DO NOT USE FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	CHK.	BY.
A	04/29/22	95% OWNER REVIEW		
B	05/13/22	ISSUE FOR SITE PLAN REVIEW		

PROJECT NO. 20220005  
 CLIENT PROJECT NO. ---  
**Greenville NORTH CAROLINA**  
 WILDWOOD PARK WELCOME CENTER & PLAYGROUND SITE

UTILITY DETAILS - SEWER

This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. (© Copyright, The East Group, P.A., 2021)







- GENERAL NOTES**
- DO NOT SCALE THE DRAWINGS. NOTIFY ARCHITECT PRIOR TO COMMENCING WORK IF DIMENSIONAL DISCREPANCIES ARE FOUND.
  - 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.
  - ALL CONSTRUCTION SHALL BE IN FULL COMPLIANCE WITH THE CURRENT EDITION ALL FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES.
  - 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.
  - ALL NEW INTERIOR WALL CONSTRUCTION IS METAL STUD FRAMING WITH 5/8" GYPSBOARD AT EACH SIDE, UNLESS NOTED OTHERWISE.
  - ALL INTERIOR WALLS TO BE INSULATED WITH R-13 SOUND ATTENUATION BATTS.
  - 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.
  - MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS FOR ALL WORK, PRODUCTS, INSTALLATIONS, ETC.
  - GC TO VERIFY ALL ROUGH OPENING SIZES FOR MECH. CHASES WITH MC PRIOR TO CONSTRUCTION
  - GC SHALL COORDINATE ALL MILLWORK (BUILT-INS) LOCATIONS AND DETAILS WITH ALL SUBS TO AVOID PLUMBING, MECHANICAL, AND ELECTRICAL CONFLICTS
  - 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.
  - 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.

**DOOR SCHEDULE**

NUMBERS	DOORS			FRAME	CLOSER	CLOSER W/ BACKSTOP	DEADBOLT LOCK	ENTRY LOCK	PRIVACY LOCK	PASSAGE SET	OFFICE LOCKSET	FLOOR LULL	FLOOR LULL	FLOOR LULL	FLOOR LULL	OVERHEAD STOP	FLOOR STOP	PANIC DEVICE	KICK PLATE	THRESHOLD	WEATHERSTRIPPING	SNAG SEAL	MAGNETIC HOLD OPEN	
	SIZE	DOOR TYPE	MATERIAL																					
101A	1.75 x 3070	HM-1	HOLLOW METAL	HOLLOW METAL																				
102A	1.75 x 1860	HM-1	HOLLOW METAL	HOLLOW METAL	X	X	X																	
103A	1.75 x 3070	HM-1	HOLLOW METAL	HOLLOW METAL																				NOTE 6
104A	1.75 x 3070	HM-1	HOLLOW METAL	HOLLOW METAL	X	X						X	X								X	X		NOTE 6
105A	1.75 x 1860	HM-1	HOLLOW METAL	HOLLOW METAL	X	X						X	X								X	X		
106A	1.75 x 1860	HM-1	HOLLOW METAL	HOLLOW METAL	X	X						X	X								X	X		NOTE 6

**NOTES**

- ALL DOORS TO BE PROVIDED WITH APPROVED HINGES
- ALL STEEL FRAMES TO BE PROVIDED WITH SILENCERS
- ALL EXTERIOR DOORS TO BE PROVIDED WITH WEATHERSTRIPPING AND HEAVY DUTY ALUM. THRESHOLDS
- PROVIDE SOLID WOOD BLOCKING FOR DOOR STOPS AND HOLD OPEN DEVICES
- EXIT DEVICES AT EXTERIOR DOORS TO BE NL WITH PULL
- PROVIDE PROGRAMMABLE ELECTROMAGNETIC LOCK AS SPECIFIED

**OWNER TO VERIFY ALL HARDWARE AND DOOR SIZES PRIOR TO ORDERING OF ANY DOORS, HARDWARE, ETC.**

**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 WITH 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**

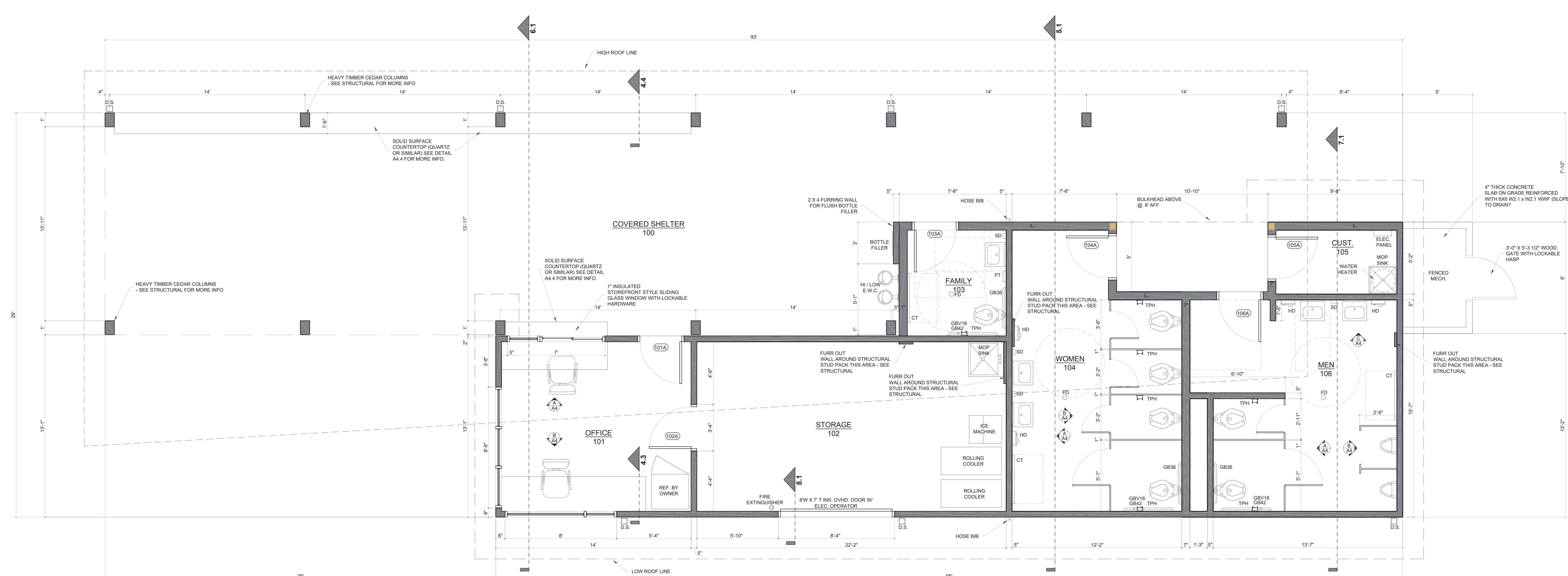
- PROVIDE 2 x BLOCKING FOR ALL TOILET ACCESSORIES (INCLUDING OWNER AND GC PROVIDED ITEMS)
- SEE INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS

**ROOM FINISH SCHEDULE**

ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CEILING HT.
100	COVERED SHELTER	CONCRETE	NA	NA	STAINED WOOD	VARIES
101	OFFICE	STAINED CONC.	RUBBER	PAINTED GYP.	PAINTED GYP	VARIES
102	STORAGE	SEALED CONCRETE	RUBBER BASE	PAINTED GYP.	PAINTED GYP	VARIES
103	FAMILY RESTROOM	STAINED CONC.	RUBBER	TILE / PAINTED M.R. GYP.	PAINTED M.R. GYP	VARIES
104	WOMEN'S RESTROOM	STAINED CONC.	RUBBER	TILE / PAINTED M.R. GYP.	PAINTED M.R. GYP	VARIES
105	CUSTODIAL	SEALED CONCRETE	RUBBER BASE	PAINTED M.R. GYP.	PAINTED M.R. GYP	VARIES
106	MEN'S RESTROOM	STAINED CONC.	RUBBER	TILE / PAINTED M.R. GYP.	PAINTED M.R. GYP	VARIES

**NOTES**

- OWNER TO VERIFY ALL FINISHES PRIOR TO ORDERING OF ANY MATERIALS
- WALL TILE IN RESTROOMS SHALL BE RUN TO 7'-2" AFF ON ALL WALLS



**WALL LEGEND**

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

WELCOME BUILDING = 1,084 SF  
 SHELTER = APPROX. 1,098 SF  
**1.1 FLOOR PLAN**  
 SCALE: 1/4" = 1'

**THE EAST GROUP**

Engineering Architecture  
 Surveying Technology

Corporate Office  
 324 Evans Street  
 Greenville, NC 27838  
 Tel 252.758.3746  
 Fax 252.830.3954

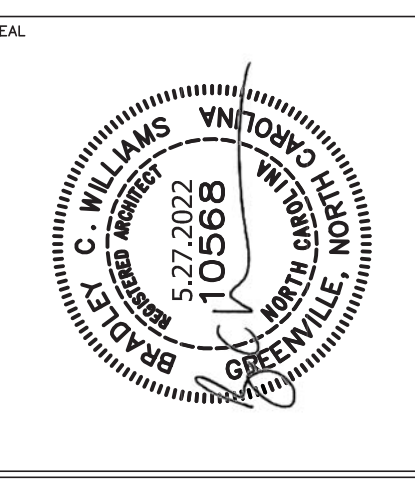
Branch Office  
 4325 Lake Boone Trail, Suite 311  
 Raleigh, NC 27607  
 Tel 919.784.8330  
 Fax 919.784.9331

NC Engineering License No. C-03006  
 NC Architectural License No. 50213  
 NC Landscape Architectural License No. C-427

**BWARCHITECTURE**  
 FORGING THE BUILT ENVIRONMENT

www.bwarchitecture.info  
 100 A OAKMONT DR.  
 GREENVILLE, NC 27858  
 252.355.1300

Documents are the exclusive property of BW Architecture, PLLC and may not be reproduced or used for any purpose without expressed written consent. Copyright © BW Architecture, PLLC.



REV	DATE	DESCRIPTION
A	4.29.22	50% OWNER REVIEW
B	05.27.22	ISSUE FOR BID

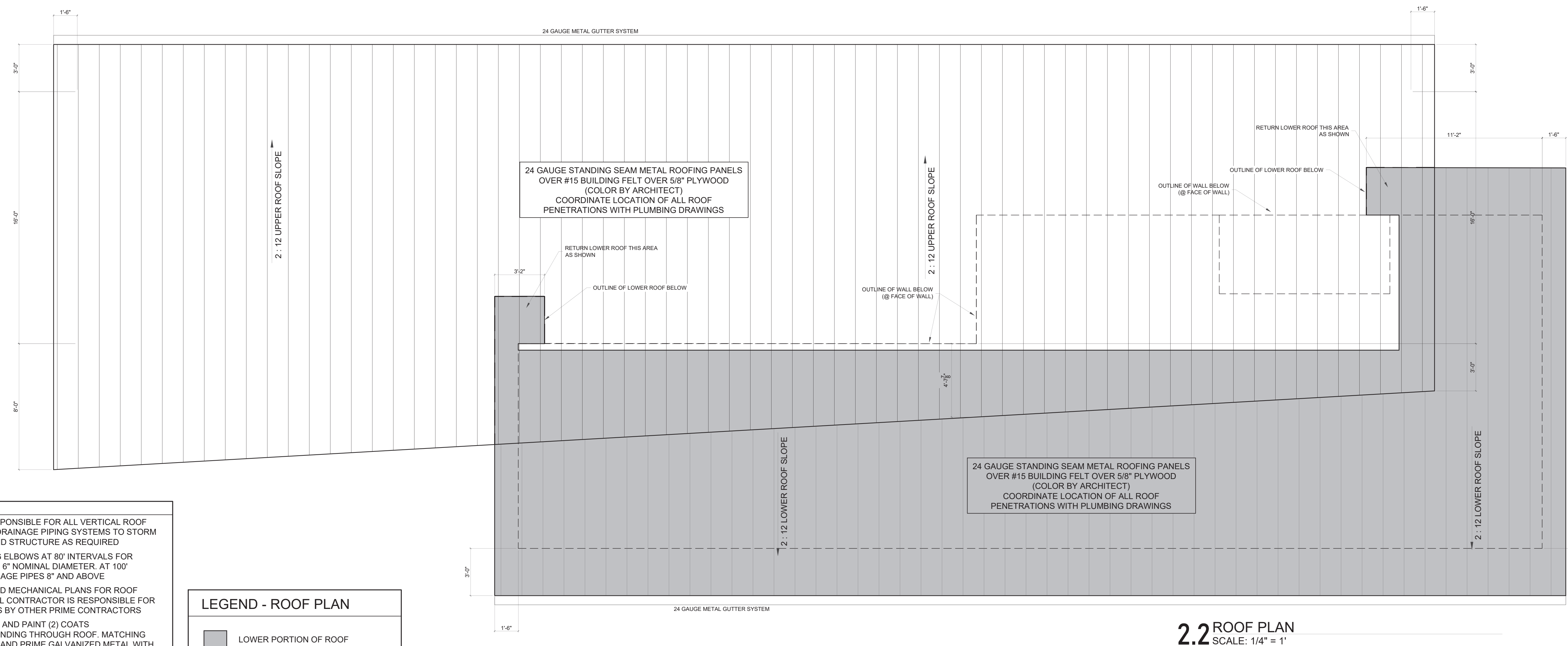
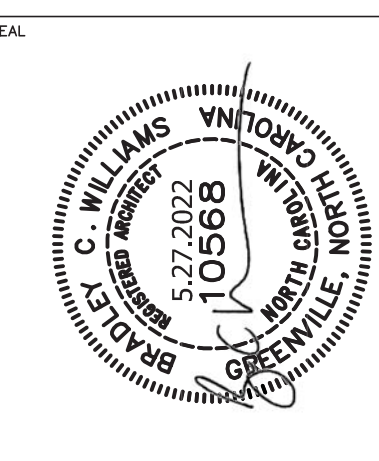
TED PROJECT NO.  
 CLIENT PROJECT NO.



**FLOOR PLAN**

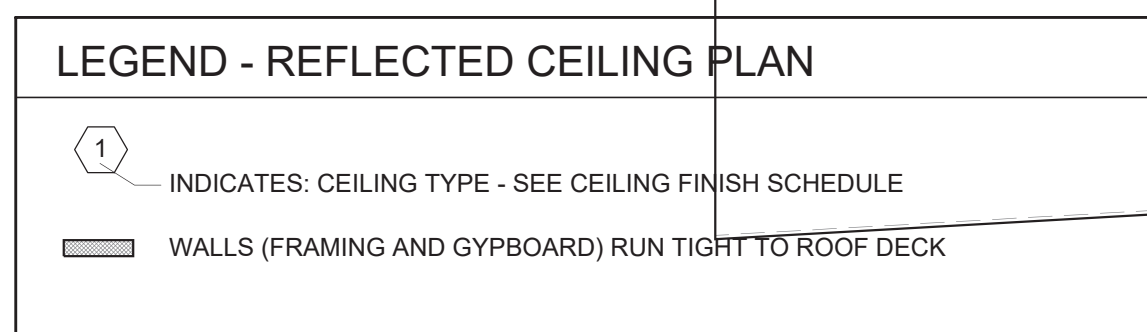
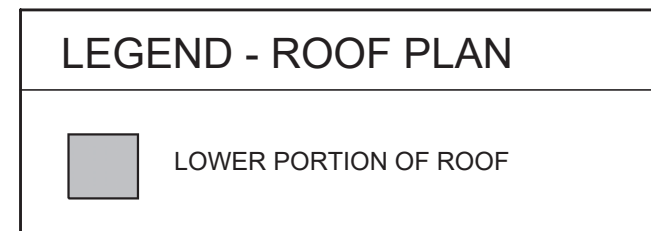
DRAWING NO.  
**A1.1**





**2.2 ROOF PLAN**  
SCALE: 1/4" = 1'

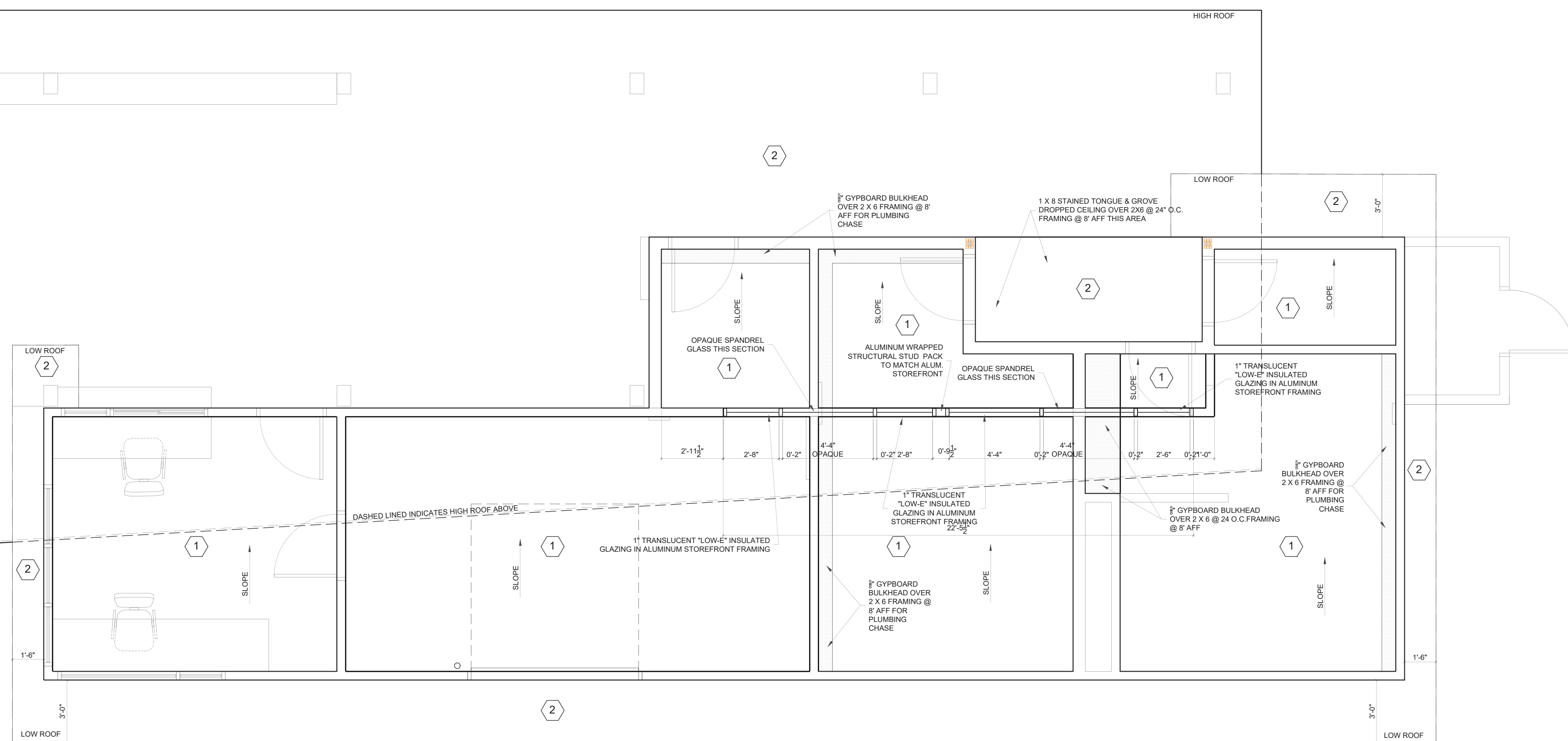
- GENERAL ROOF PLAN NOTES**
1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL VERTICAL ROOF DRAIN LEADERS AND HORIZONTAL DRAINAGE PIPING SYSTEMS TO STORM SEWER CATCH BASINS. PIPE AROUND STRUCTURE AS REQUIRED
  2. PROVIDE CLEANOUTS AT ALL PIPING ELBOWS AT 80' INTERVALS FOR HORIZONTAL DRAINAGE PIPES 4"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



- 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: 1/4" = 1'

REV	DATE	DESCRIPTION	CHK
A	4.29.22	BASE OWNER REVIEW	
B	05.27.22	ISSUE FOR BID	

TED PROJECT NO. \_\_\_\_\_

CLIENT PROJECT NO. \_\_\_\_\_



PROJECT TITLE  
WILDWOOD PARK  
WELCOME CENTER  
& PLAYGROUND SITE

DRAWING TITLE  
**REFLECTED CEILING  
PLAN / ROOF PLAN**



DRAWING NO.

**A2.1**



GLASS SCHEDULE	
TYPE	DESCRIPTION
T	TEMPERED
O	OPAQUE

NOTE: ALL GLASS IS 1" INSULATED STOREFRONT GLASS WITH LOW E COATING ON 3RD SURFACE

SIDING SCHEDULE	
	7" LAP CEMENTITIOUS SIDING BY NICHHA, JAMES HARDIE OR EQUAL
	RIFTSAWN RAINDRIP CEMENTITIOUS SIDING BY NICHHA OR EQUAL

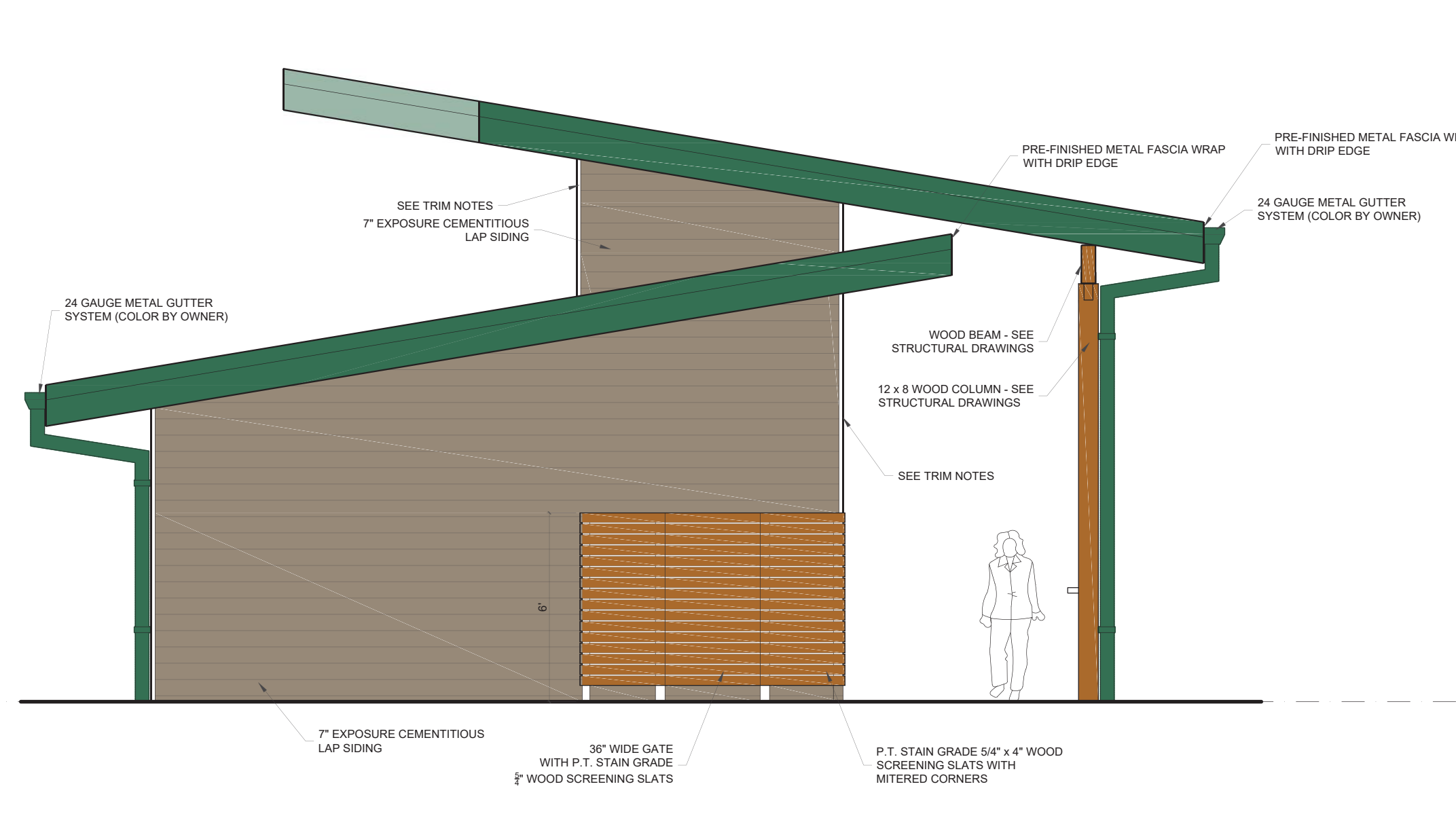
**TRIM NOTES:**

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

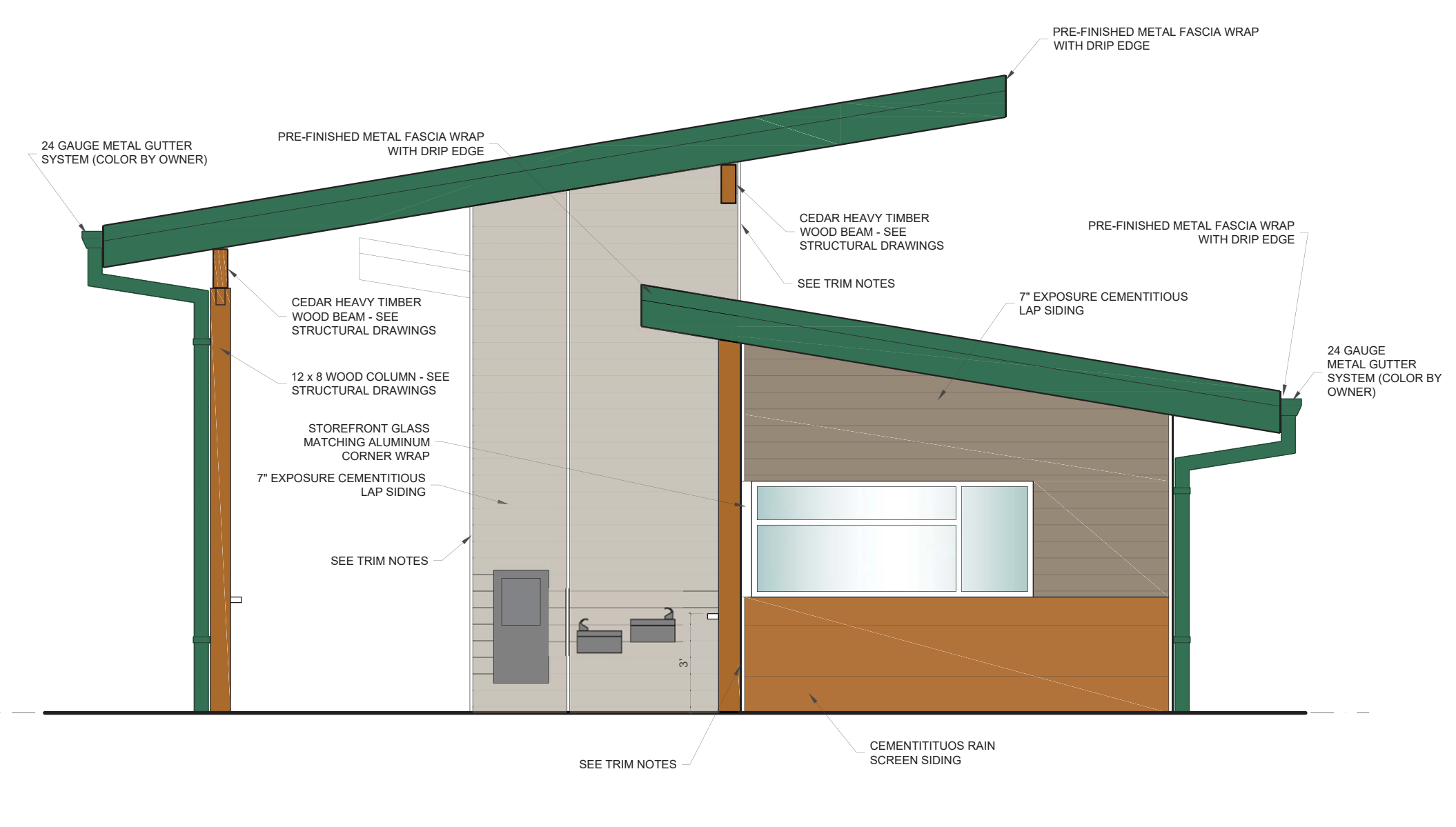
NOTE 2: ALL INSIDE CORNER TRIM TO BE PREFINISHED ALUMINUM WITH 5/8" EXPOSURE SIMILAR TO TMYLN XTREME TRIM OR EASY TRIM

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

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



**3.4 RIGHT SIDE ELEVATION**  
SCALE: 1/4" = 1'



**3.3 LEFT SIDE ELEVATION**  
SCALE: 1/4" = 1'



**3.2 FRONT (PARKING SIDE) ELEVATION**  
SCALE: 1/4" = 1'



**3.1 REAR (WATER SIDE) ELEVATION**  
SCALE: 1/4" = 1'

**THE EAST GROUP**

Engineering Architecture  
Surveying Technology

Corporate Office  
324 Evans Street  
Greenville, NC 27858  
Tel: 252.758.3748  
Fax: 252.830.3954

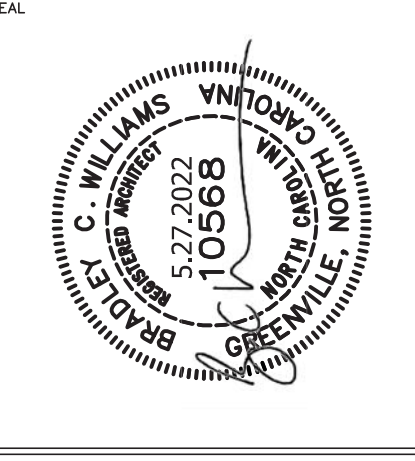
Branch Office  
4325 Lake Boone Trail, Suite 311  
Raleigh, NC 27607  
Tel: 919.784.9330  
Fax: 919.784.9331

NC Engineering License No. C-0306  
NC Architectural License No. 50213  
NC Landscape Architectural License No. C-427

**BWARCHITECTURE**  
FORGING THE BUILT ENVIRONMENT  
BY ARCHITECTURE, PLLC

www.bwarchitecture.info  
100 A OAKMONT DR.  
GREENVILLE, NC 27858  
252.355.1300

Documents are the exclusive property of BW Architecture, PLLC and may not be reproduced or used for any purpose without expressed written consent. Copyright © BW Architecture, PLLC.



REV	DATE	DESCRIPTION
A	02.27.22	ISSUE FOR BID
B	4.29.22	FOR OWNER REVIEW

TED PROJECT NO.  
CLIENT PROJECT NO.

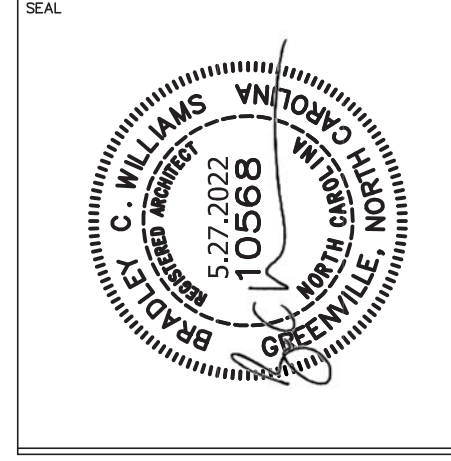
**Greenville**  
NORTH CAROLINA

WILDWOOD PARK  
WELCOME CENTER  
& PLAYGROUND SITE

DRAWING TITLE  
**EXTERIOR ELEVATIONS**

DRAWING NO.  
**A3.1**





REV	DATE	DESCRIPTION
A	4.29.22	BSR OWNER REVIEW
B	05.27.22	ISSUE FOR BID

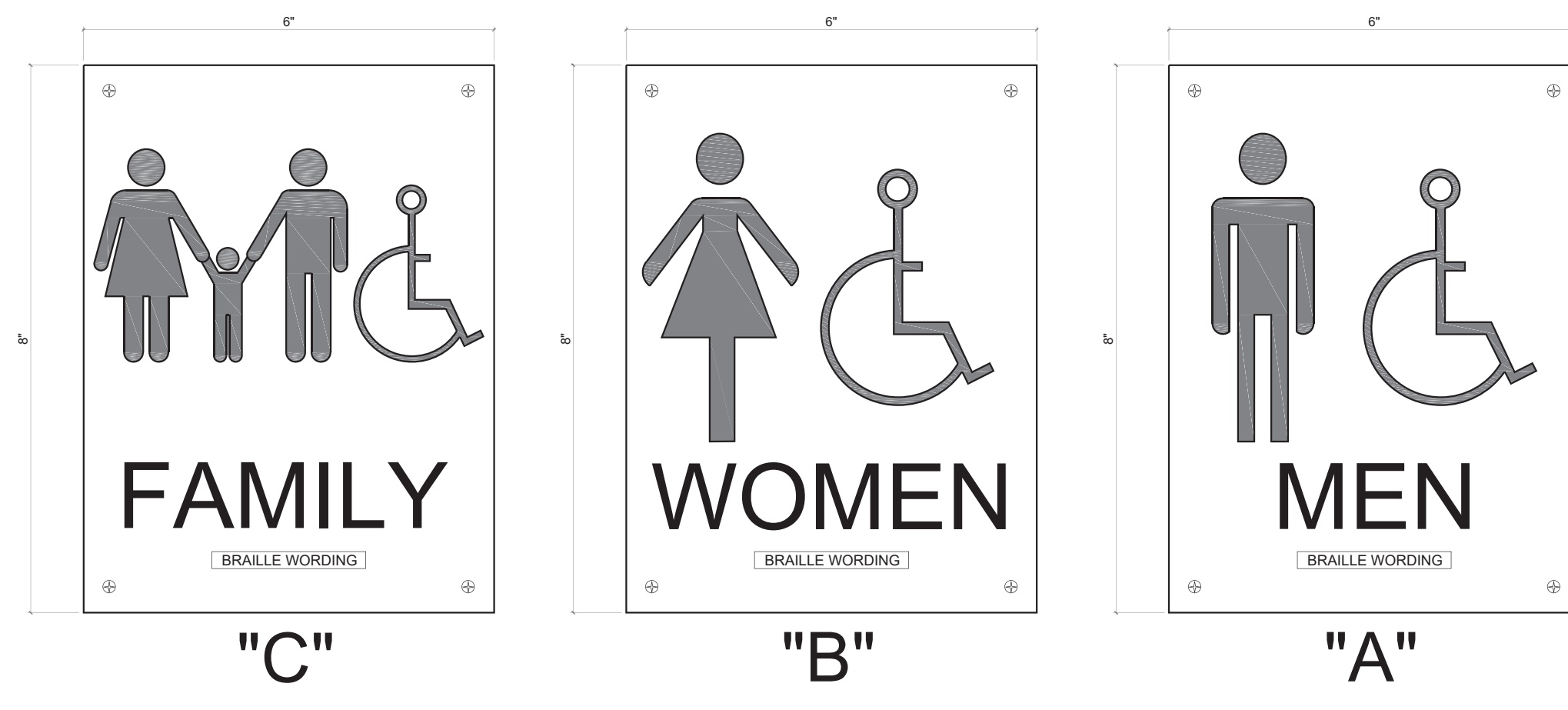
TED PROJECT NO.  
 CLIENT PROJECT NO.



PROJECT TITLE  
**WILDWOOD PARK WELCOME CENTER & PLAYGROUND SITE**

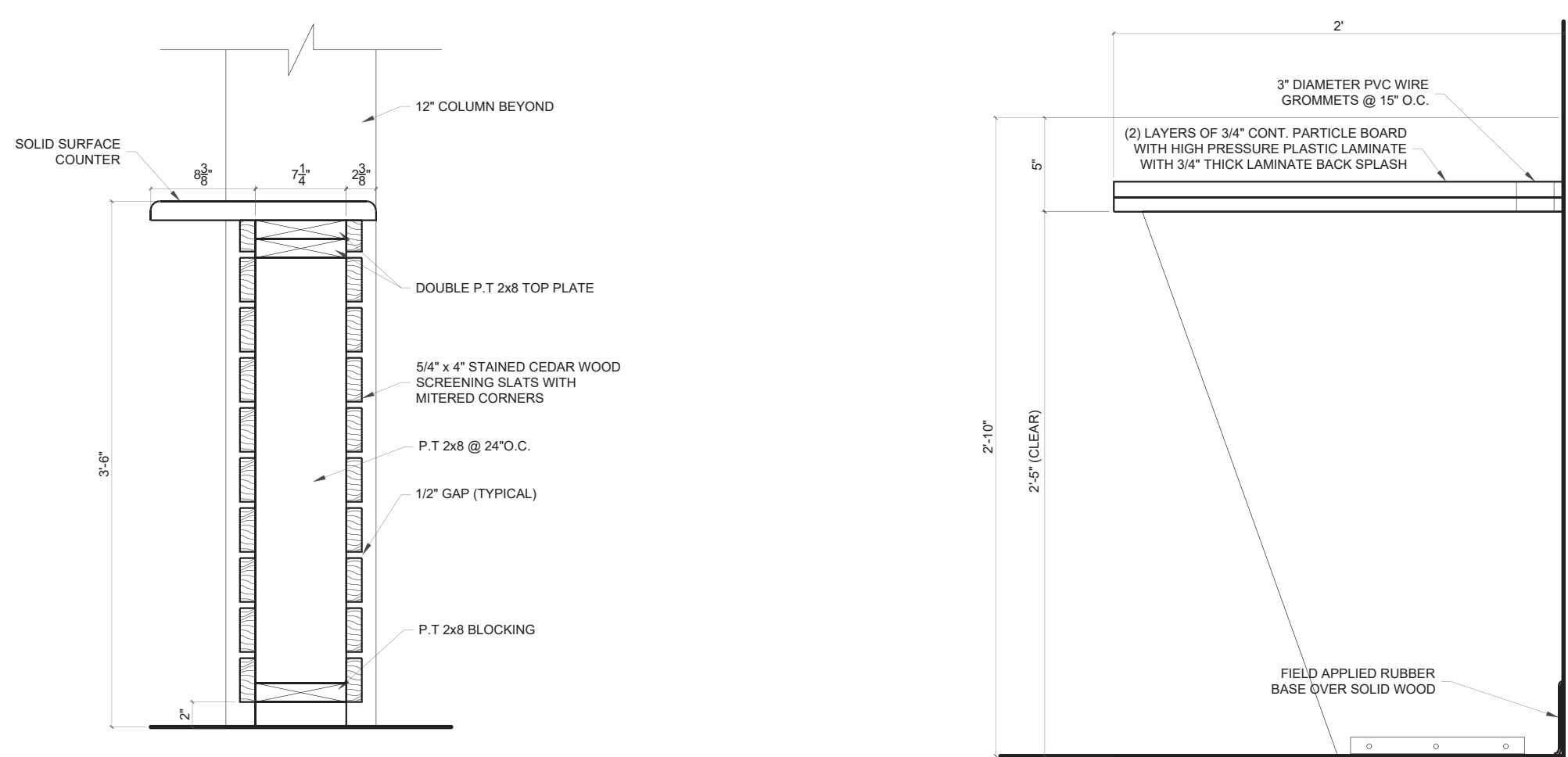
DRAWING TITLE  
**INTERIOR ELEVATIONS**

DRAWING NO.  
**A4.1**



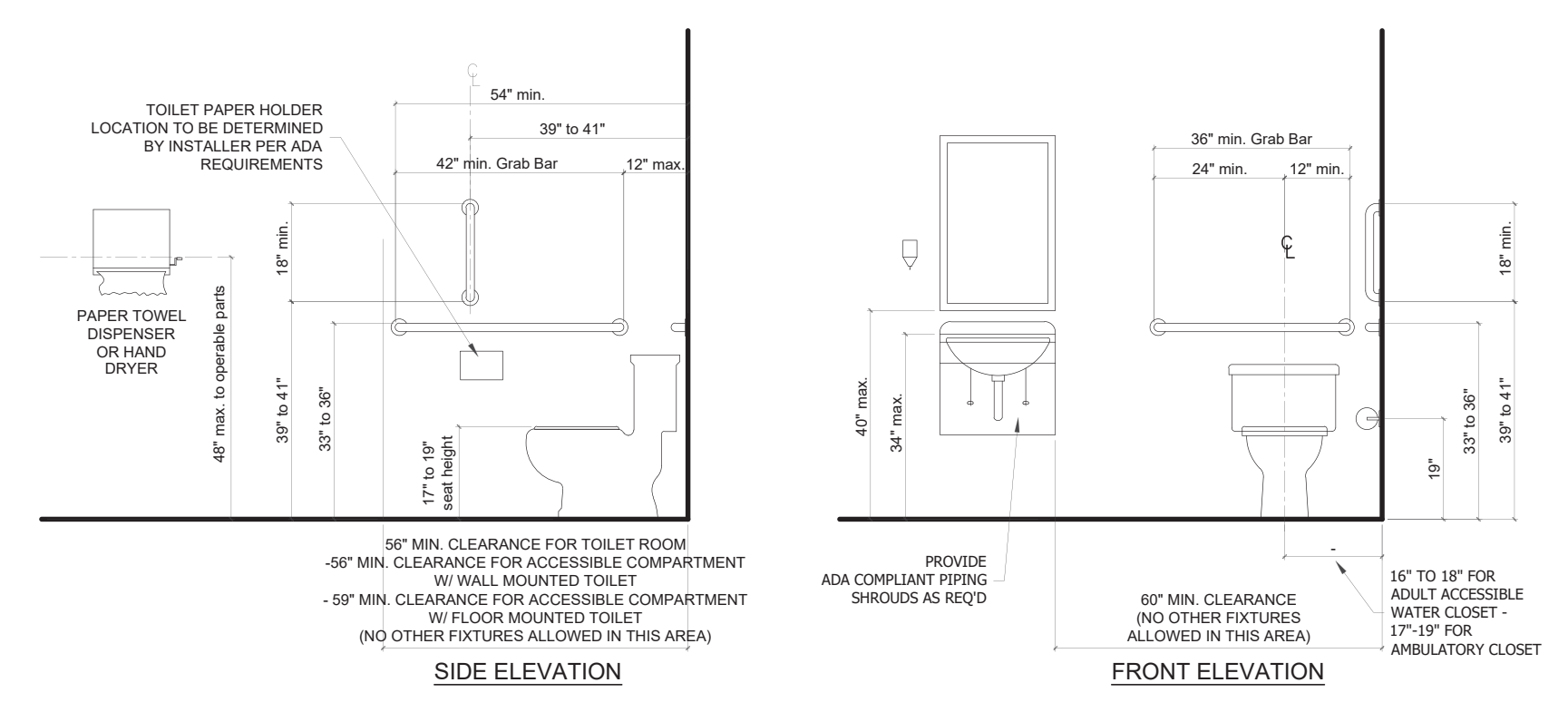
Bathroom signage shall be solid one piece phenolic plastic materials, sand etched raised graphics, attached to walls with (4) screws each, ADA compliant. Provide Mohawk Signs Series 200A Sand Etched Format D signs or equivalent by Best Signs.

**4.3 SIGNAGE DETAILS**  
 SCALE: N.T.S.



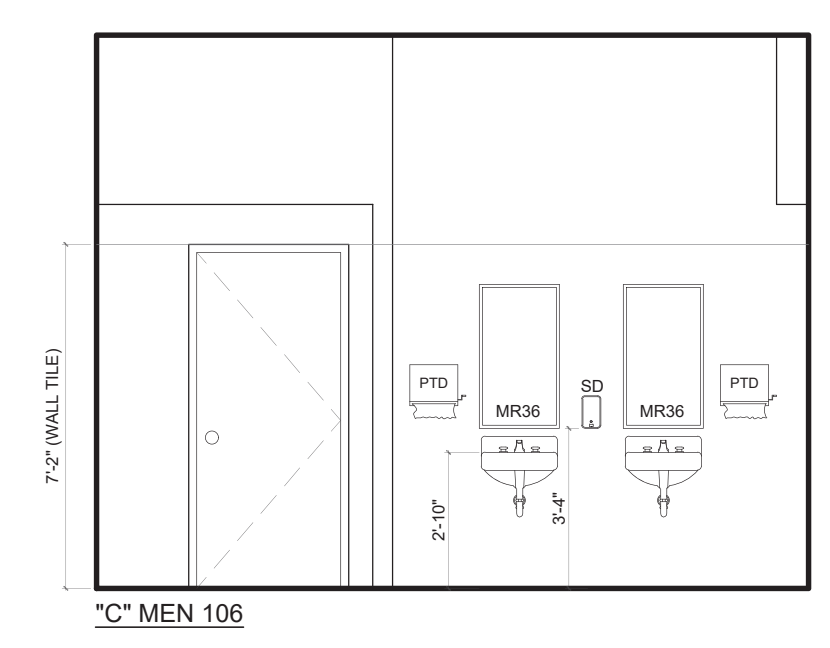
**4.4 MILLWORK DETAIL @ OFFICE 101**  
 SCALE: 1" = 1'

**4.3 MILLWORK DETAIL @ OFFICE 101**  
 SCALE: 1 1/2" = 1'

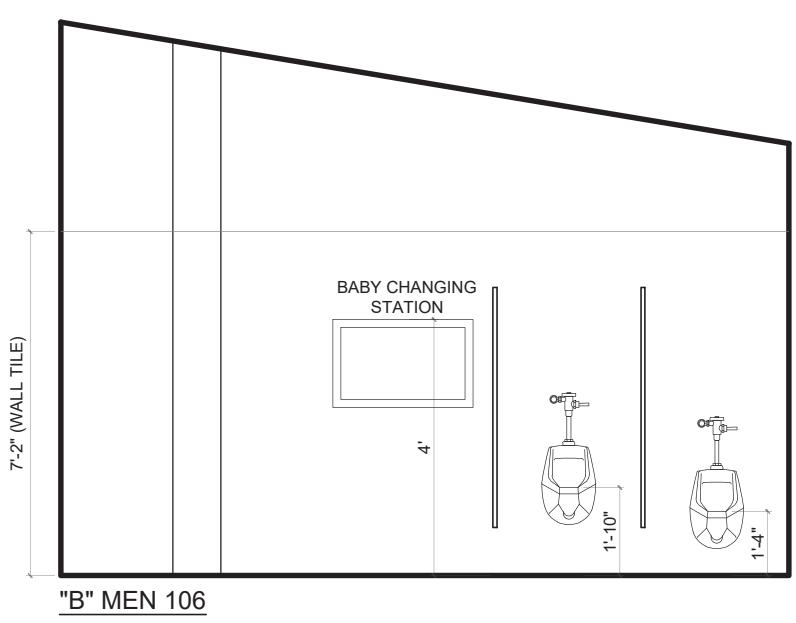


NOTE 1: ABOVE DRAWINGS AND DIMENSIONS ARE FOR ADULT FIXTURES AND RESTROOMS ONLY.  
 NOTE 2: ALL ACCESSIBLE TOILET STALLS SHALL BE EQUIPPED WITH SELF CLOSING DOORS.

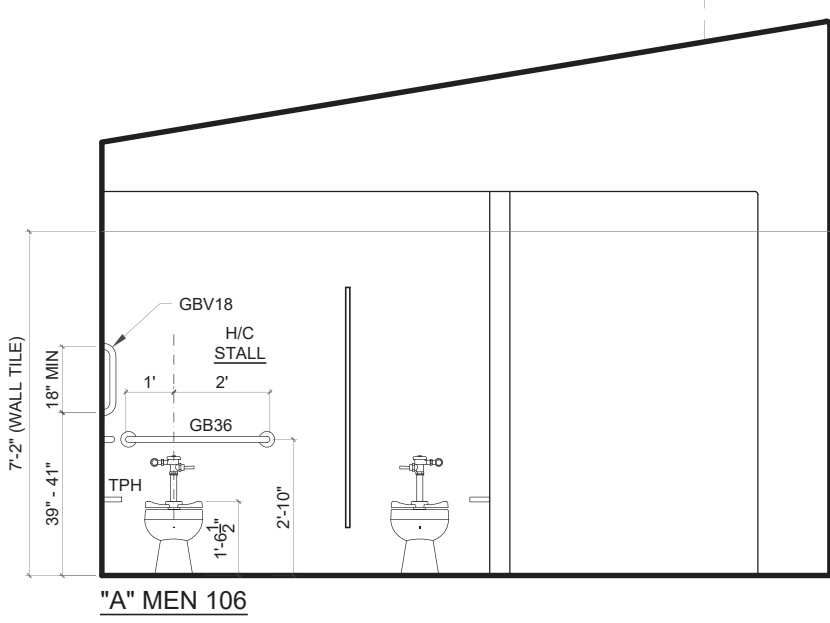
**4.2 TYPICAL ACCESSIBLE RESTROOM DETAILS**  
 SCALE: 1 1/2" = 1'



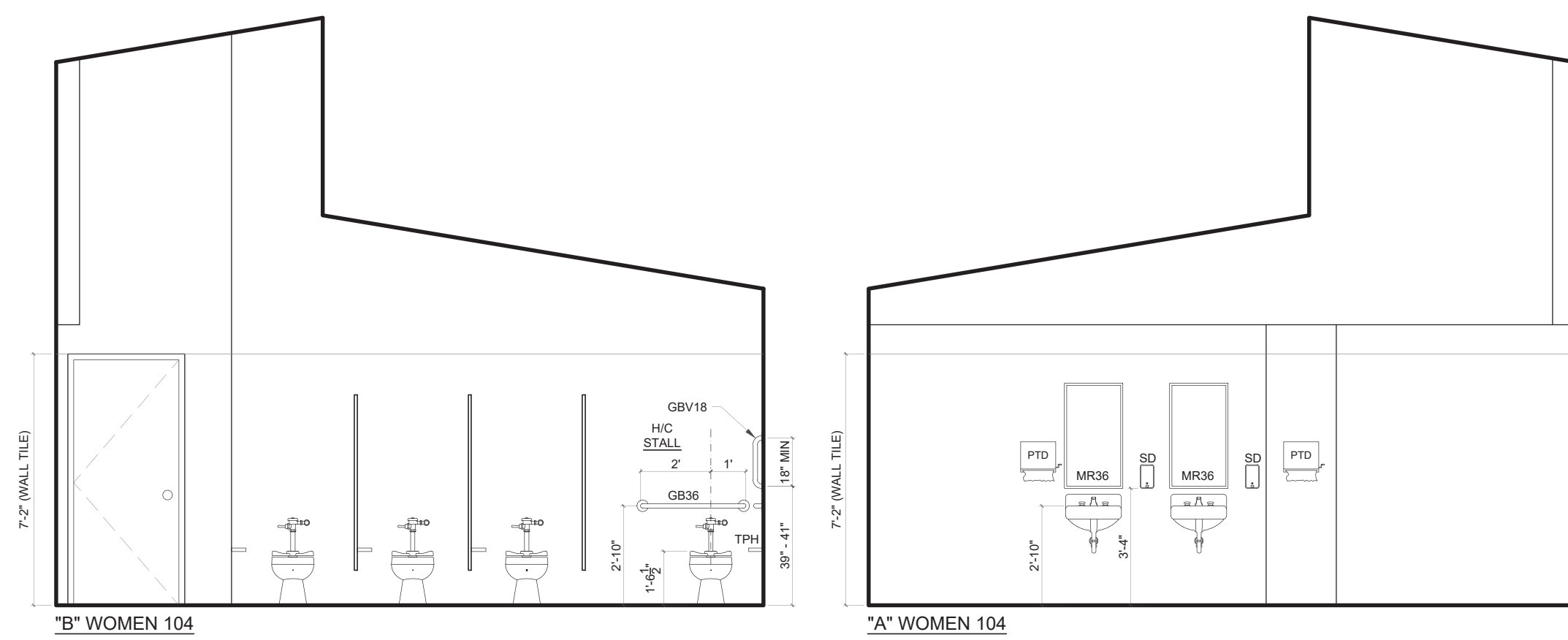
\*C\* MEN 106



\*B\* MEN 106

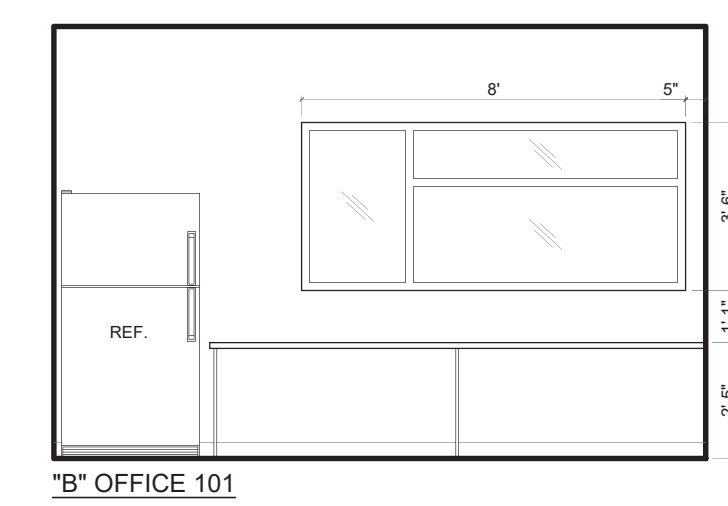


\*A\* MEN 106

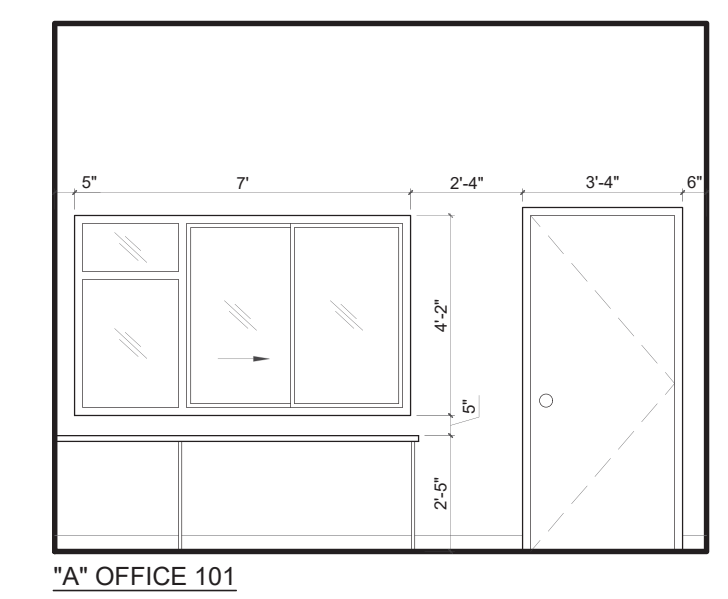


\*B\* WOMEN 104

\*A\* WOMEN 104



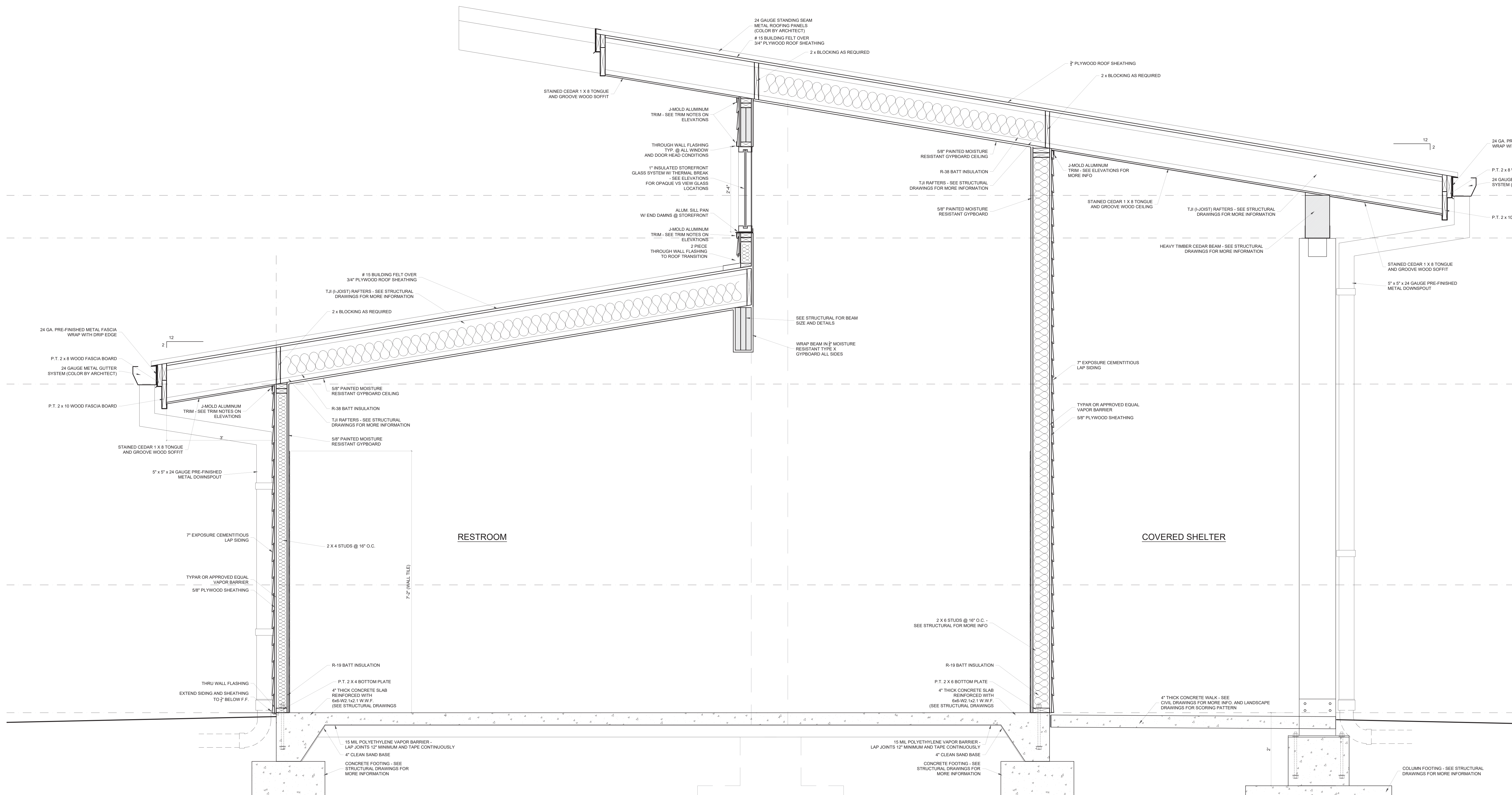
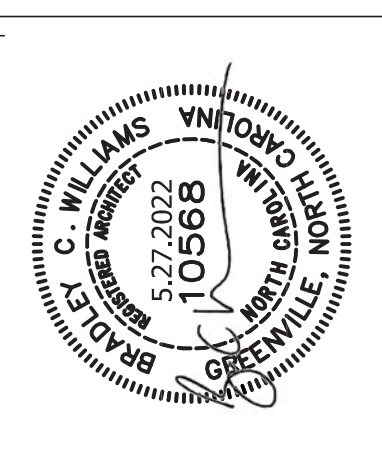
\*B\* OFFICE 101



\*A\* OFFICE 101

**4.1 INTERIOR ELEVATIONS**  
 SCALE: 1/4" = 1'





**5.1 SECTION**  
SCALE: 3/4" = 1'

REV	DATE	DESCRIPTION
A	4.29.22	BOOK OWNER REVIEW
B	05.27.22	ISSUE FOR BID

TED PROJECT NO.

CLIENT PROJECT NO.

PROJECT TITLE



WILDWOOD PARK  
WELCOME CENTER  
& PLAYGROUND SITE

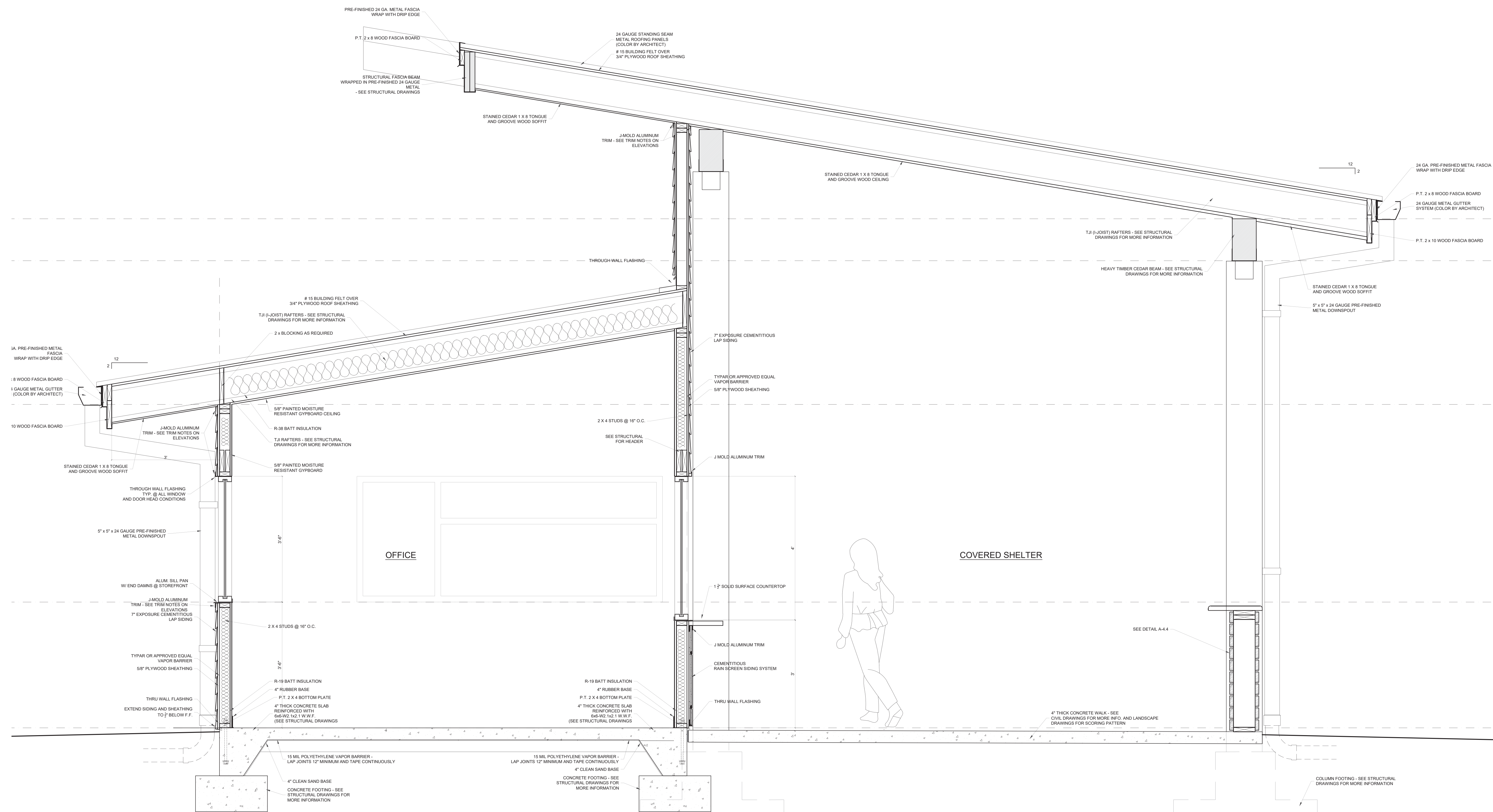
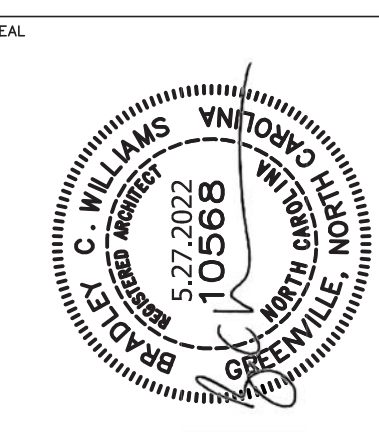
DRAWING TITLE

SECTIONS

DRAWING NO.

**A5.1**





**6.1 SECTION**  
SCALE: 3/4" = 1'

REV	DATE	DESCRIPTION
A	4.29.22	BOOK OWNER REVIEW
B	05.27.22	ISSUE FOR BID

TED PROJECT NO.

CLIENT PROJECT NO.

PROJECT TITLE



WILDWOOD PARK  
WELCOME CENTER  
& PLAYGROUND SITE

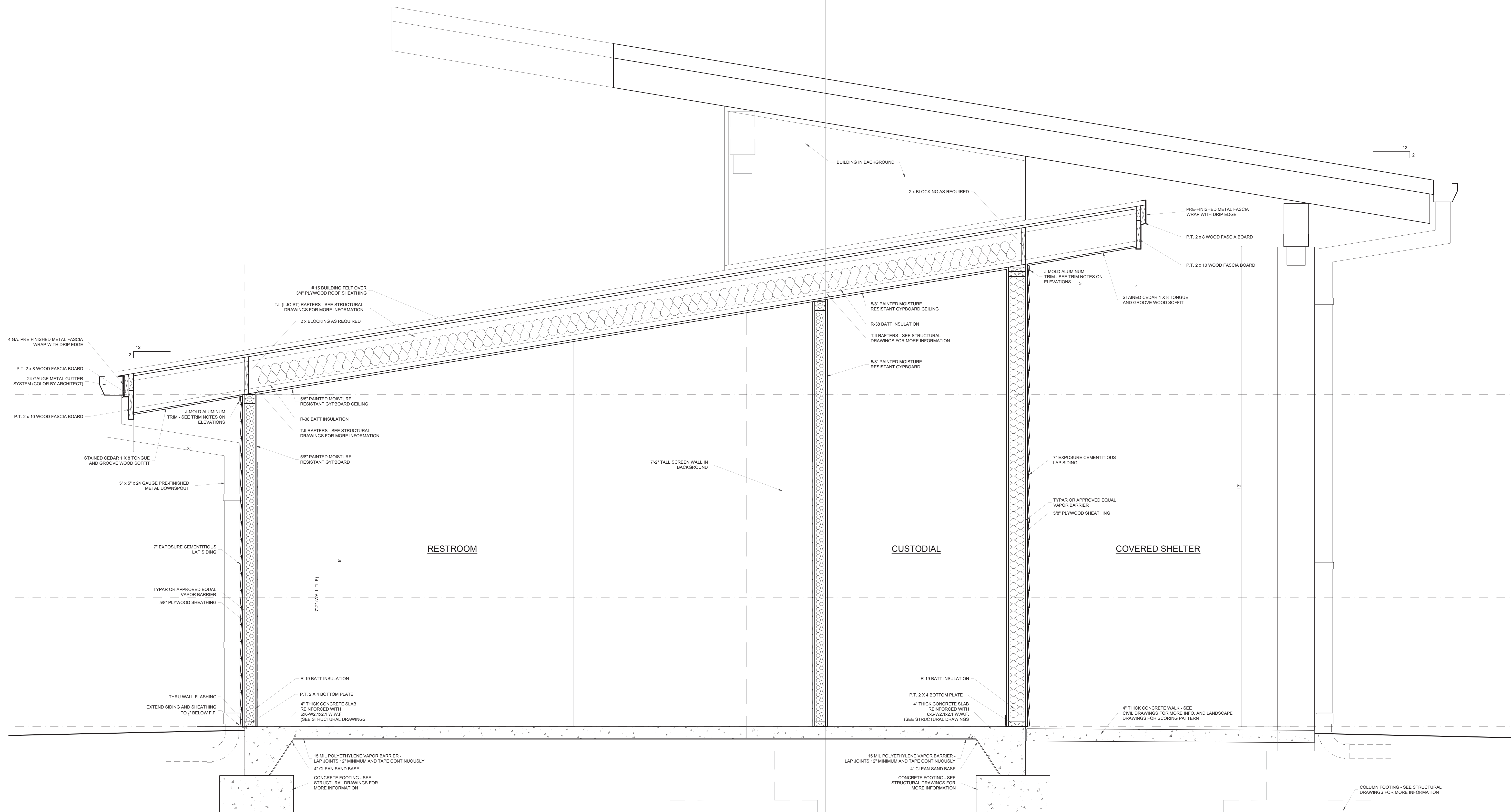
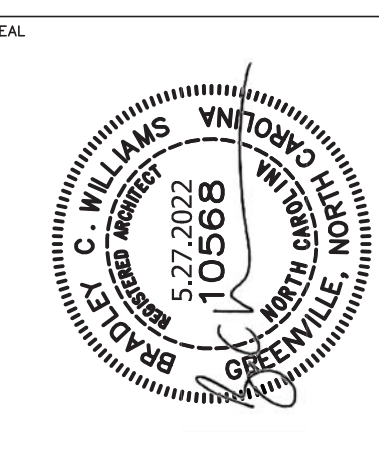
DRAWING TITLE

**SECTIONS**

DRAWING NO.

**A6.1**





**7.1 SECTION**  
SCALE: 3/4" = 1'

REV	DATE	DESCRIPTION
A	4.29.22	BASE OWNER REVIEW
B	05.27.22	ISSUE FOR BID

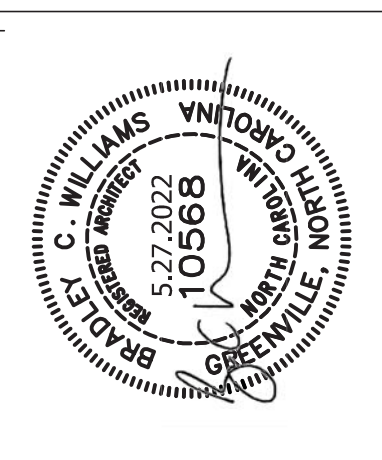
TED PROJECT NO.  
CLIENT PROJECT NO.

PROJECT TITLE  
**Greenville**  
NORTH CAROLINA  
WILDWOOD PARK  
WELCOME CENTER  
& PLAYGROUND SITE

DRAWING TITLE  
**SECTIONS**

DRAWING NO.  
**A7.1**





REV	DATE	DESCRIPTION	BY	CHK
A	4.29.22	BOOK OWNER REVIEW		
B	05.27.22	ISSUE FOR BID		

TED PROJECT NO.

CLIENT PROJECT NO.

PROJECT TITLE



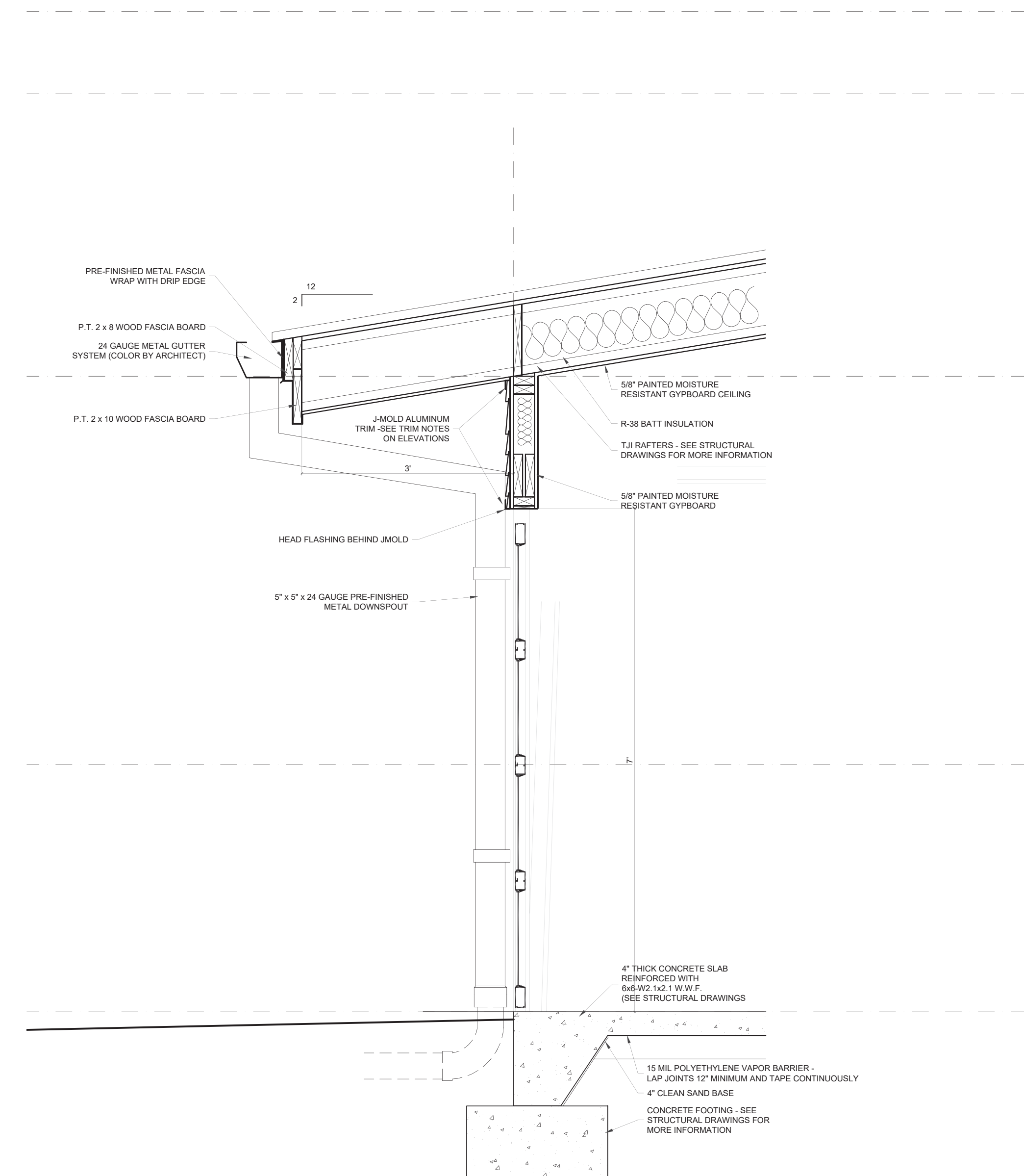
WILDWOOD PARK  
WELCOME CENTER  
& PLAYGROUND SITE

DRAWING TITLE

SECTIONS

DRAWING NO.

**A8.1**



**8.1 SECTION**  
SCALE: 3/4" = 1'

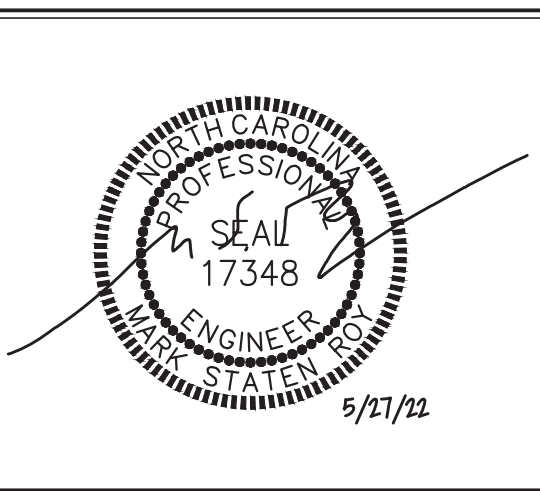


FOUNDATION PLAN LEGEND	
	DENOTES COLUMN CONCRETE SPREAD FOOTING WITH FOOTING MARK - SEE PLAN AND 2/S2.1 FOR SIZE AND REINFORCING
	DENOTES SLAB ON GRADE CONSTRUCTION OR SAWCUT CONTROL JOINT - SEE SECTIONS 5/S2.1 AND 6/S2.1 FOR ADDITIONAL INFORMATION
	DENOTES A WOOD LOAD BEARING WALL WITH 2 x 6 STUDS, SPACED AT 16" ON CENTER
	DENOTES A WOOD LOAD BEARING WALL WITH 2 x 4 STUDS, SPACED AT 12" ON CENTER
	DENOTES A WOOD LOAD BEARING WALL WITH 2 x 4 STUDS, SPACED AT 16" ON CENTER
	DENOTES A HOLD-DOWN WITH (3) GANGED STUDS AT EACH INDICATED LOCATION - SEE 2/S2.2 AND 5/S2.2 FOR ADDITIONAL INFORMATION
	DENOTES A LOCATION OF A STUD-PACK COLUMN CONSISTING OF (3) GANGED STUDS - USE 2 x 4 STUDS UNLESS OTHERWISE NOTED ON PLAN
U.O.N.	DENOTES 'UNLESS OTHERWISE NOTED'

FOUNDATION PLAN NOTES:

- SEE SHEET S3.1 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES & SCHEDULES.
- DIMENSIONS SHOWN WITH '±' ARE EXISTING AND ARE SUBJECT TO FIELD VERIFICATION PRIOR TO ACCEPTANCE AS VALID.
- TOP OF SLAB REFERENCE ELEVATION = 0'-0" UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SITE ELEVATIONS.
- CONCRETE FLOOR SLAB IS 4" THICK WITH 6 x 6 - W 2.1 x W 2.1 WELDED WIRE FABRIC, TYPICAL. PROVIDE 10 MIL VAPOR BARRIER AND 4" COMPACTED GRANULAR BASE UNDER SLAB.
- FOR FOOTING, BASE PLATE AND ANCHOR BOLT DETAIL, SEE SHEET S2.1.
- SEE ARCHITECTURAL PLANS FOR LOCATIONS OF COVERED SHELTER SLAB JOINTS.

**RPA ENGINEERING, P.A.**  
Structural Engineering Solutions  
Engineering License Certificate No. C-2734  
102 Regency Blvd.  
Greenville, NC 27834  
Phone: 252-321-6027  
Fax: 252-355-2179  
RPA Project No.: 20220066



REV	DATE	DESCRIPTION
A	04.29.22	95% OWNER REVIEW
B	05.27.22	ISSUE FOR BID

TEG PROJECT NO. 20220005

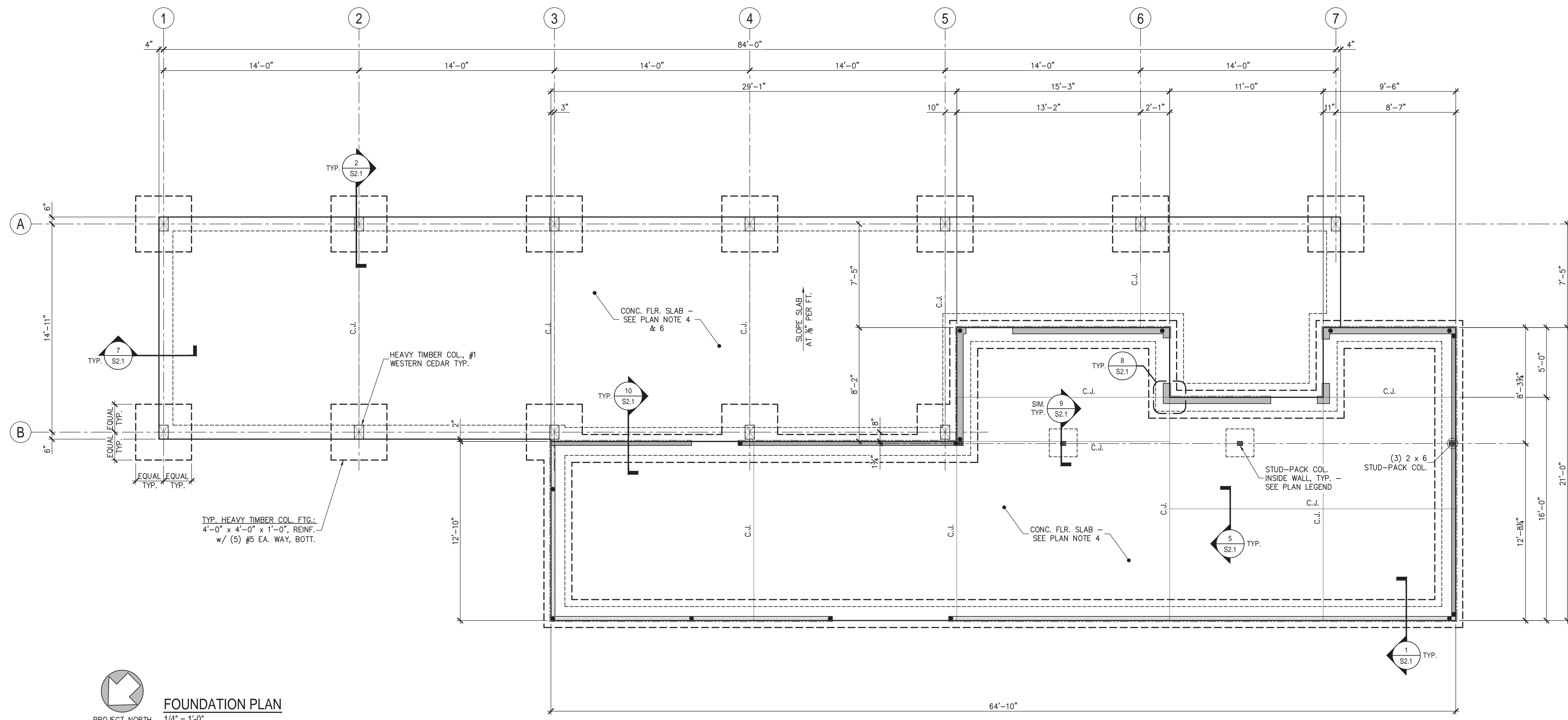
CLIENT PROJECT NO.

PROJECT TITLE  
**Greenville NORTH CAROLINA**  
WILDWOOD PARK WELCOME CENTER & PLAYGROUND SITE

DRAWING TITLE  
FOUNDATION PLAN, PLAN LEGEND & PLAN NOTES

DRAWING NO.

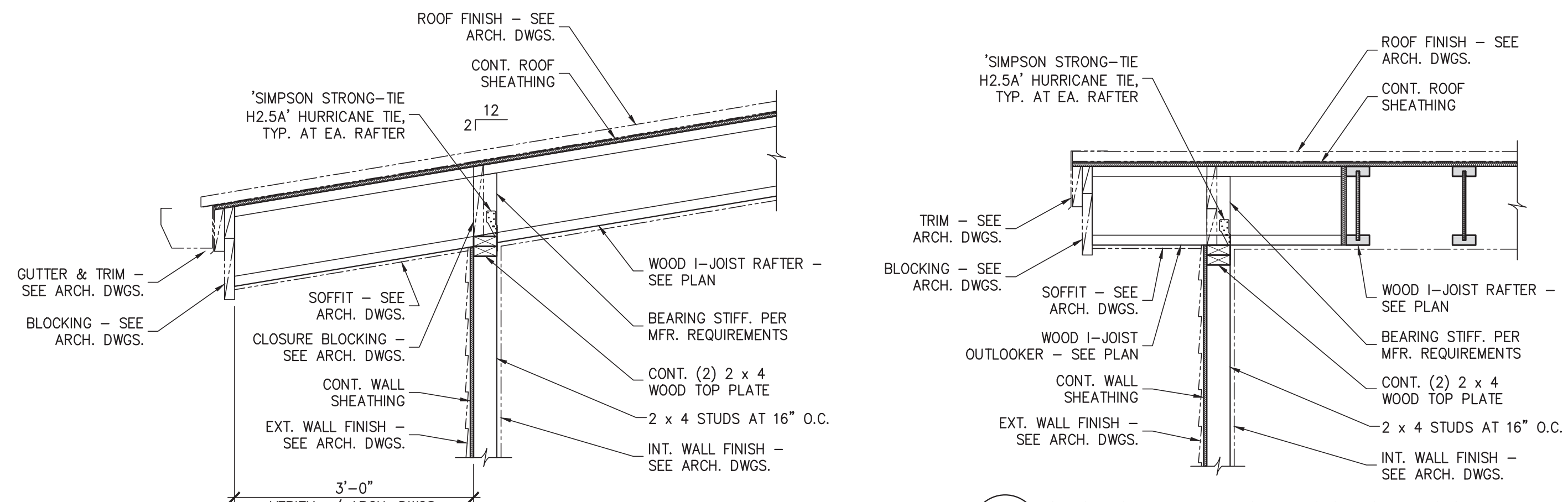
**S1.1**



PROJECT NORTH  
**FOUNDATION PLAN**  
1/4" = 1'-0"



**RPA ENGINEERING, P.A.**  
Structural Engineering Solutions  
Engineering License Certificate No. C-2734  
302 Regency Blvd.  
Greenville, NC 27834  
Phone: 252-321-0027  
Fax: 252-352-2179  
RPA Project No.: 2022066

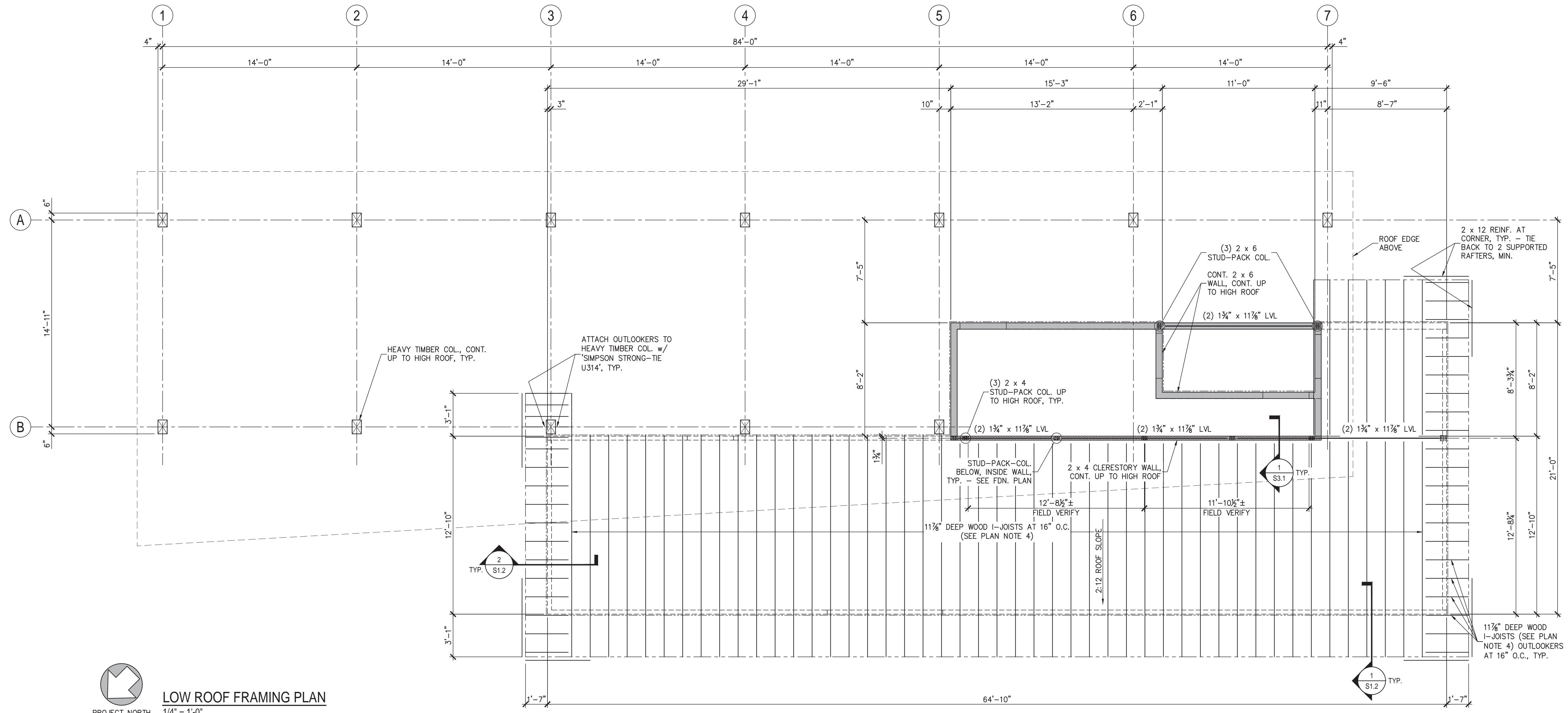


**1 SECTION - TYP. LOW EAVE ROOF**  
S1.2 N.T.S.

**2 SECTION - TYP. LOW ROOF OUTLOOKER**  
S1.2 N.T.S.

ROOF FRAMING PLAN LEGEND	
	DENOTES DIRECTION OF DECK SPAN
[+12'-4"]	DENOTES JOIST BEARING REFERENCE ELEVATION
	DENOTES A WOOD LOAD BEARING WALL WITH 2 x 6 STUDS, SPACED AT 16" ON CENTER
	DENOTES A WOOD LOAD BEARING WALL WITH 2 x 4 STUDS, SPACED AT 12" ON CENTER
LSV	DENOTES 'LONG SIDE VERTICAL'
U.O.N.	DENOTES 'UNLESS OTHERWISE NOTED'

- ROOF FRAMING PLAN NOTES:**
- SEE SHEET S3.1 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES AND SCHEDULES.
  - DIMENSIONS SHOWN WITH '±' ARE EXISTING AND ARE SUBJECT TO FIELD VERIFICATION PRIOR TO ACCEPTANCE AS VALID.
  - COORDINATE ROOF OPENINGS WITH MECHANICAL AND PLUMBING DRAWINGS.
  - WOOD I-JOISTS SHALL BE 'GEORGIA-PACIFIC W 40' OR EQUIVALENT UNLESS OTHERWISE NOTED ON THE PLAN.
  - HEAVY TIMBER BEAMS AND COLUMNS SHALL ALL BE NUMBER 1, WESTERN CEDAR.



**LOW ROOF FRAMING PLAN**  
PROJECT NORTH 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY	CHK
A	04.29.22	95% OWNER REVIEW		
B	05.27.22	ISSUE FOR BID		

TEG PROJECT NO. 20220005

CLIENT PROJECT NO.

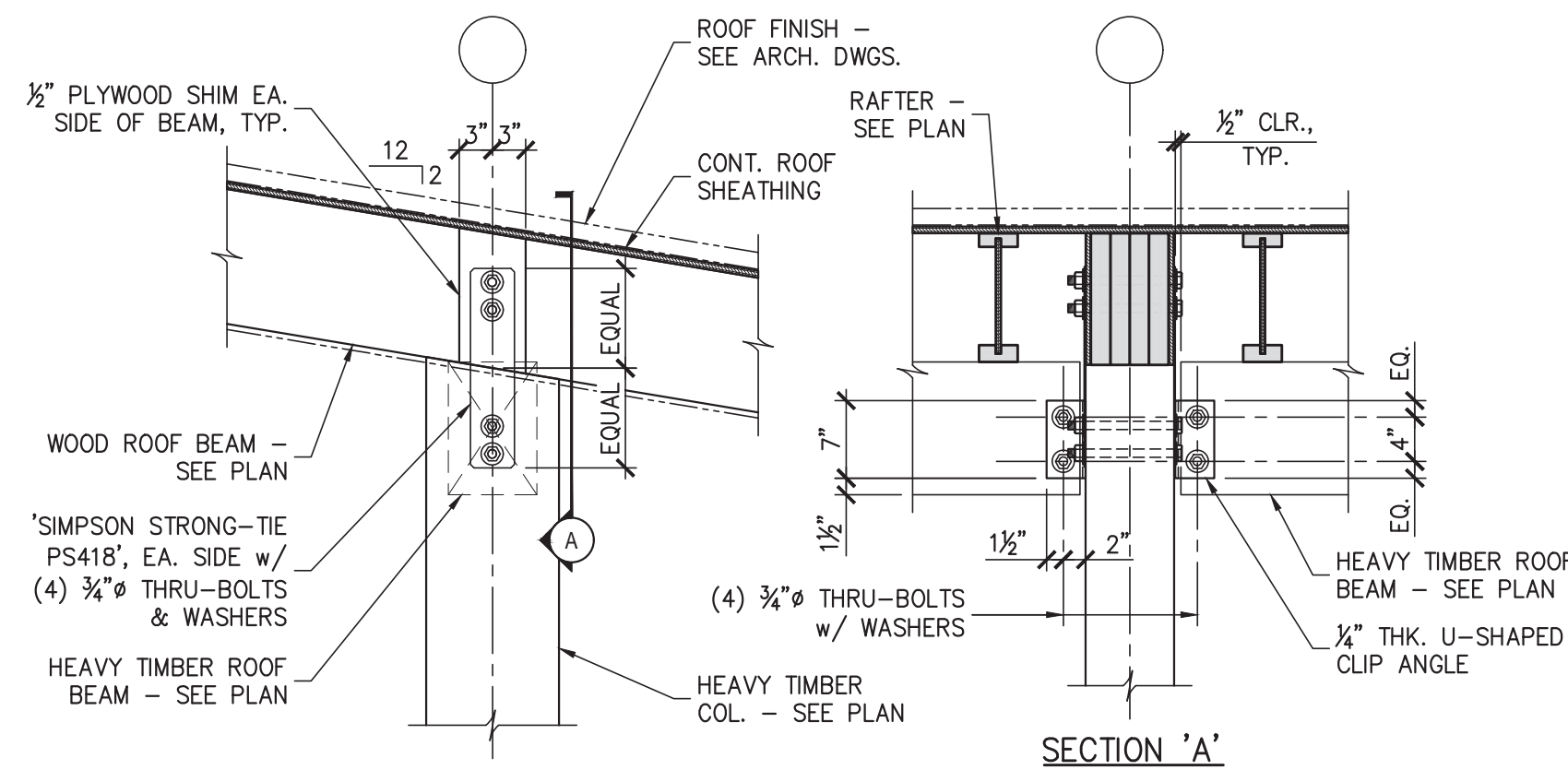
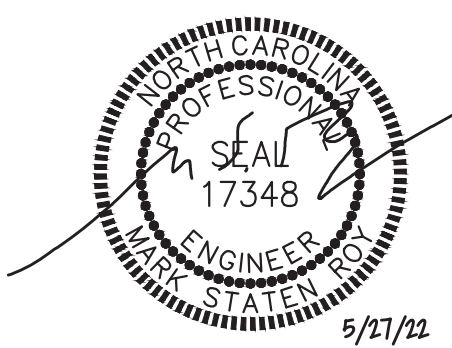
PROJECT TITLE  
**Greenville NORTH CAROLINA**  
WILDWOOD PARK WELCOME CENTER & PLAYGROUND SITE

DRAWING TITLE  
**LOW ROOF FRAMING PLAN & SECTIONS**

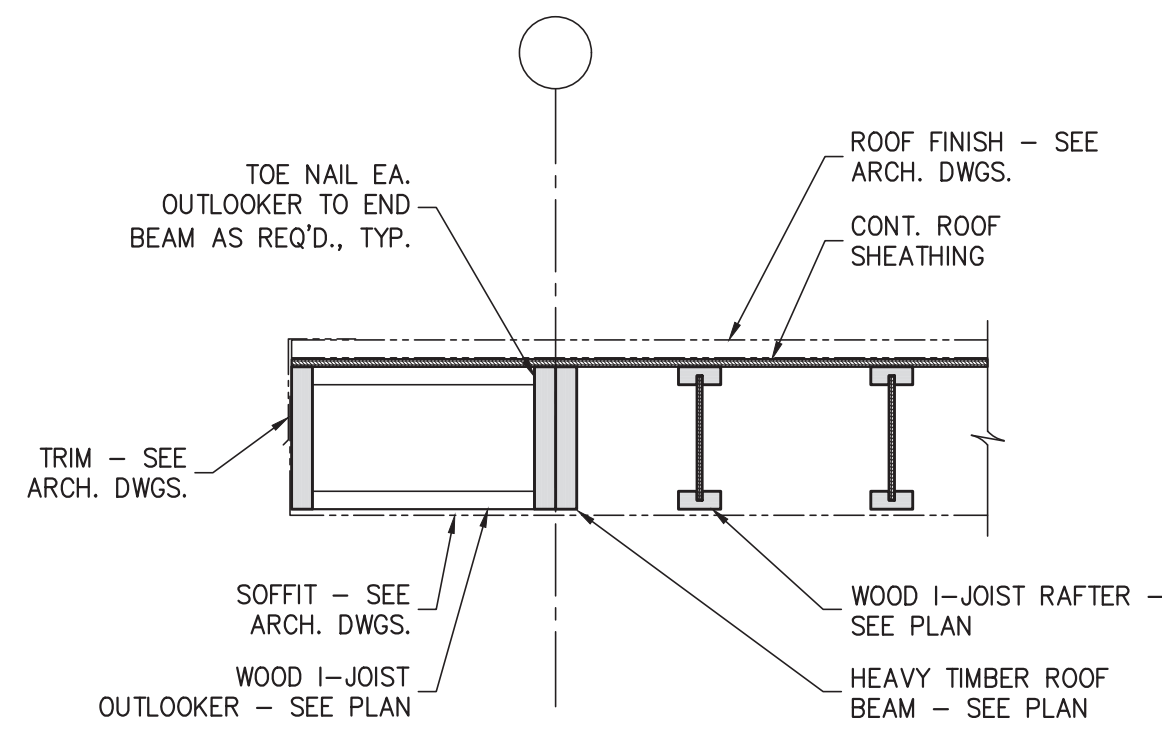
DRAWING NO.

**S1.2**

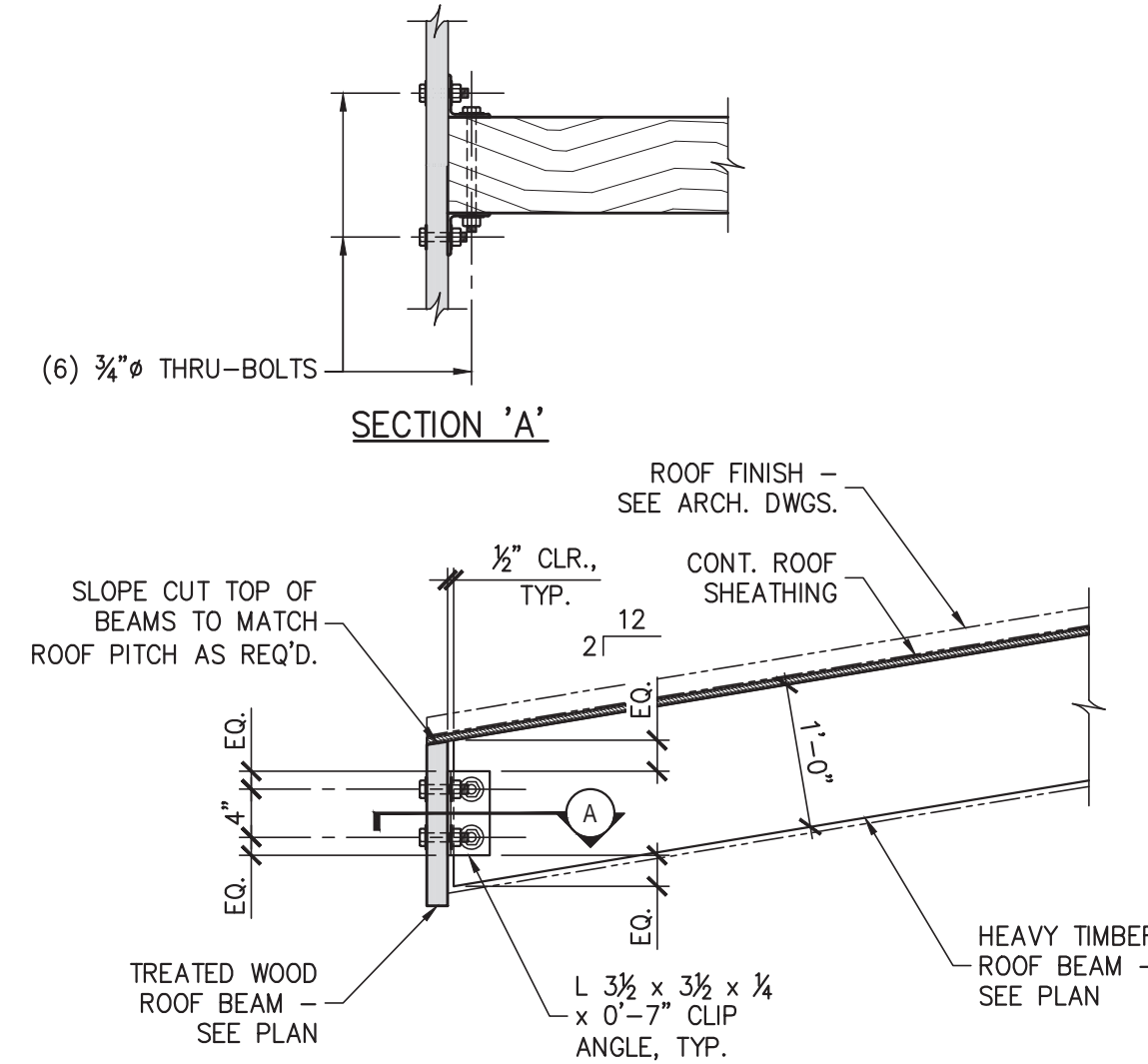




**1**  
S1.3  
SECTION - TYP. HEAVY TIMBER BEAM BRG. ON HEAVY TIMBER COL. N.T.S.



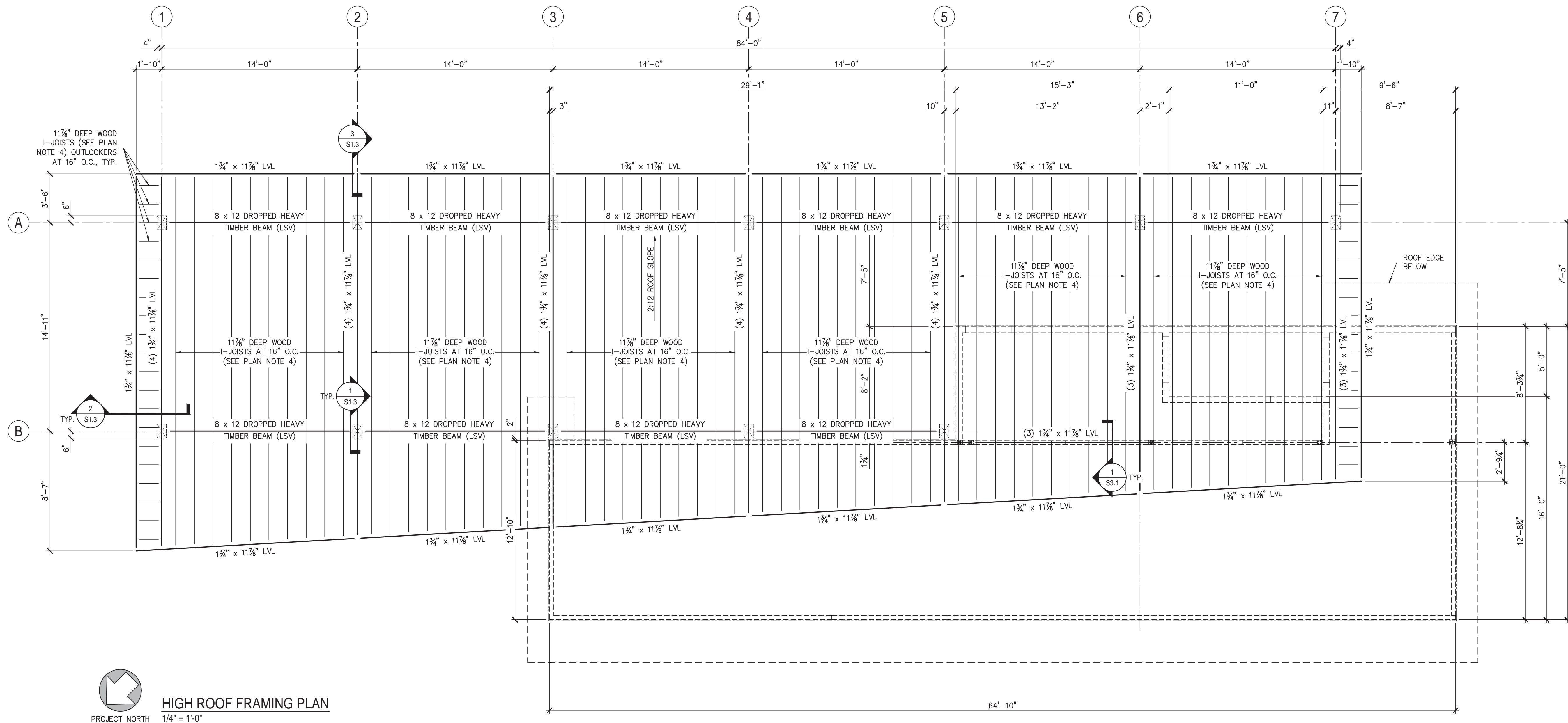
**2**  
S1.3  
SECTION - TYP. HIGH ROOF OUTLOOKER N.T.S.



**3**  
S1.3  
SECTION - TYP. LVL END BEAM CONN. TO HEAVY TIMBER ROOF BEAM N.T.S.

ROOF FRAMING PLAN LEGEND	
	DENOTES DIRECTION OF DECK SPAN
[+12'-4"]	DENOTES JOIST BEARING REFERENCE ELEVATION
	DENOTES A WOOD LOAD BEARING WALL WITH 2 x 6 STUDS, SPACED AT 16" ON CENTER
	DENOTES A WOOD LOAD BEARING WALL WITH 2 x 4 STUDS, SPACED AT 12" ON CENTER
LSV	DENOTES 'LONG SIDE VERTICAL'
U.O.N.	DENOTES 'UNLESS OTHERWISE NOTED'

- ROOF FRAMING PLAN NOTES:**
- SEE SHEET S3.1 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES AND SCHEDULES.
  - DIMENSIONS SHOWN WITH '±' ARE EXISTING AND ARE SUBJECT TO FIELD VERIFICATION PRIOR TO ACCEPTANCE AS VALID.
  - COORDINATE ROOF OPENINGS WITH MECHANICAL AND PLUMBING DRAWINGS.
  - WOOD I-JOISTS SHALL BE 'GEORGIA-PACIFIC W 40' OR EQUIVALENT UNLESS OTHERWISE NOTED ON THE PLAN.
  - HEAVY TIMBER BEAMS AND COLUMNS SHALL ALL BE NUMBER 1, WESTERN CEDAR.



**HIGH ROOF FRAMING PLAN**  
PROJECT NORTH 1/4" = 1'-0"

REV	DATE	DESCRIPTION
A	04.29.22	95% OWNER REVIEW
B	05.27.22	ISSUE FOR BID

TEG PROJECT NO. 20220005

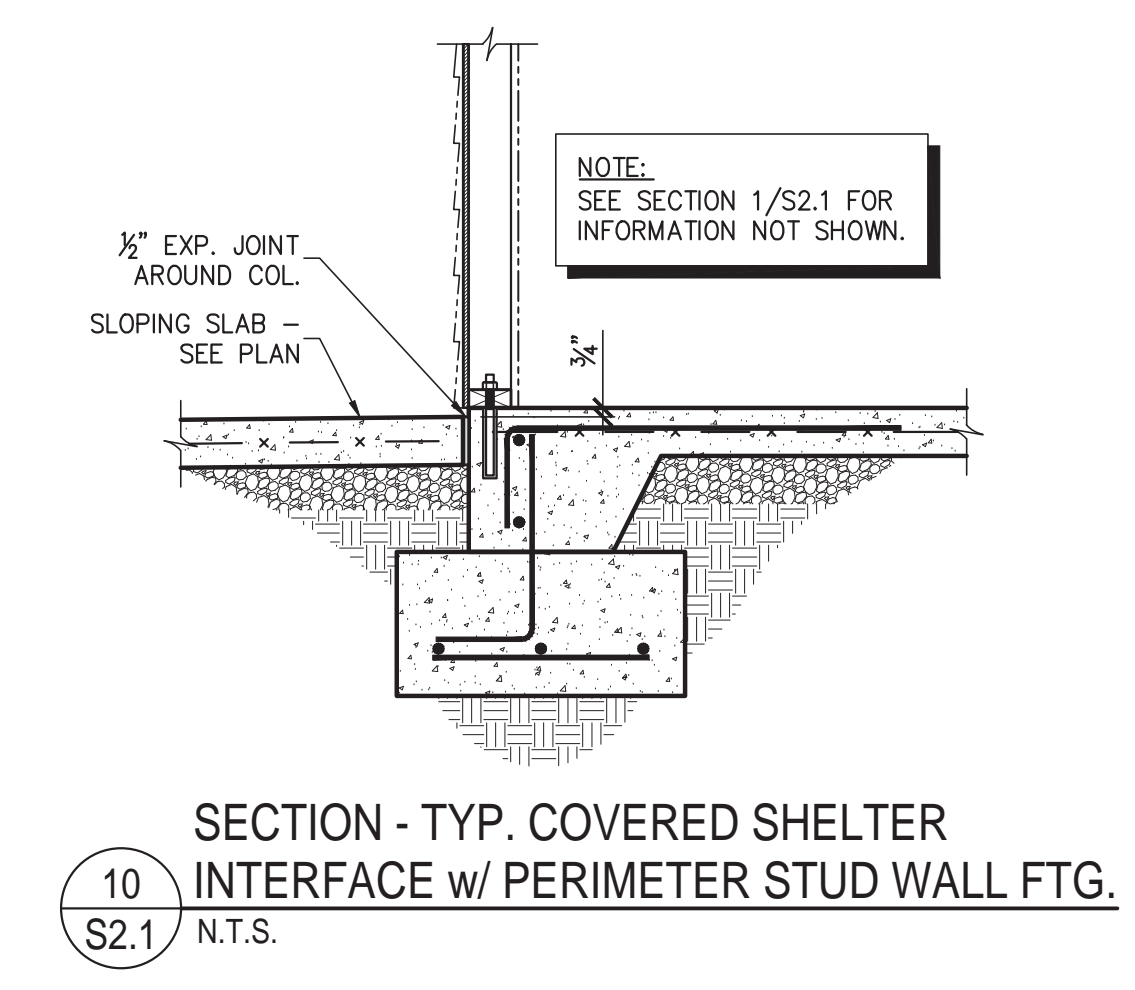
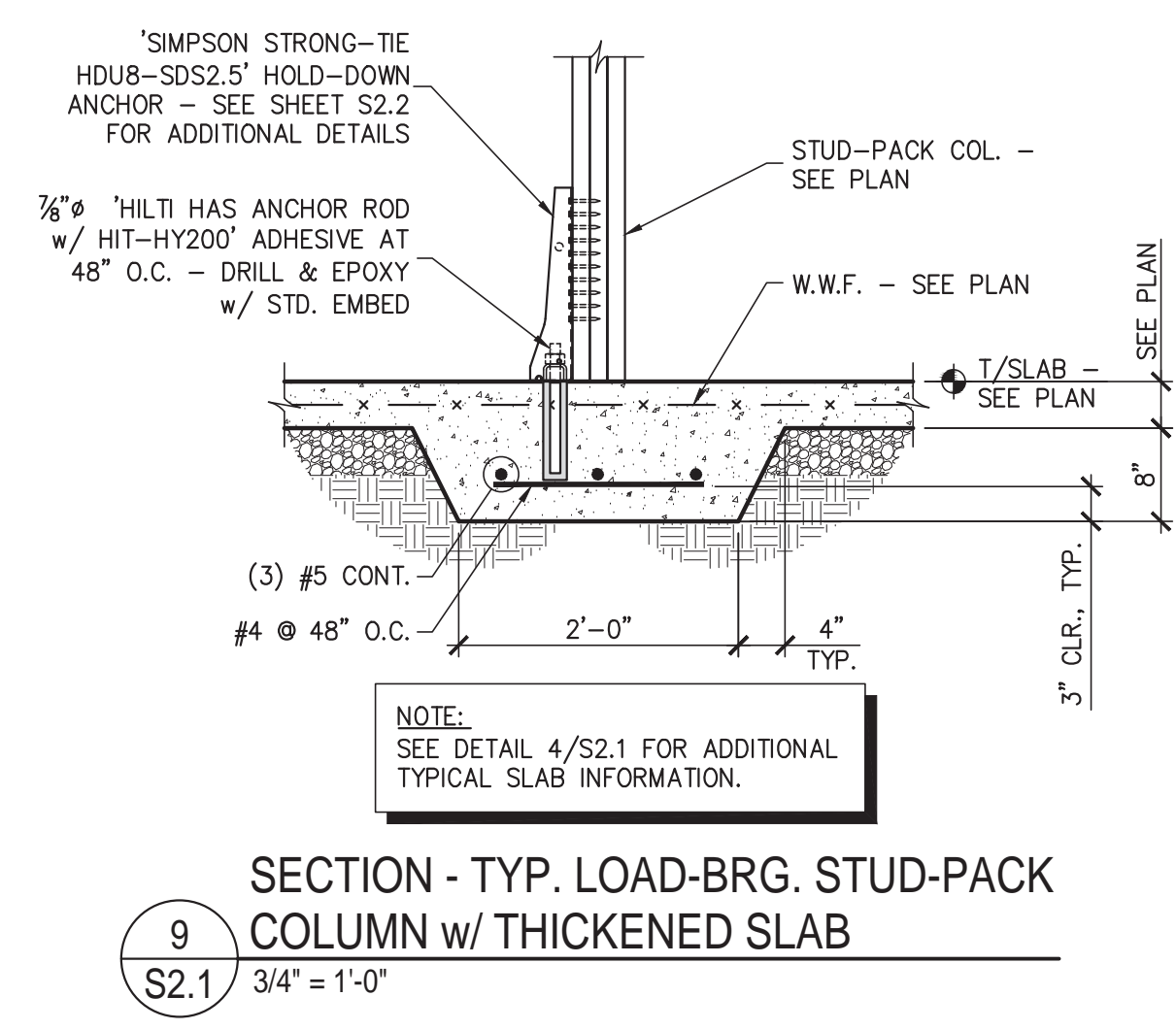
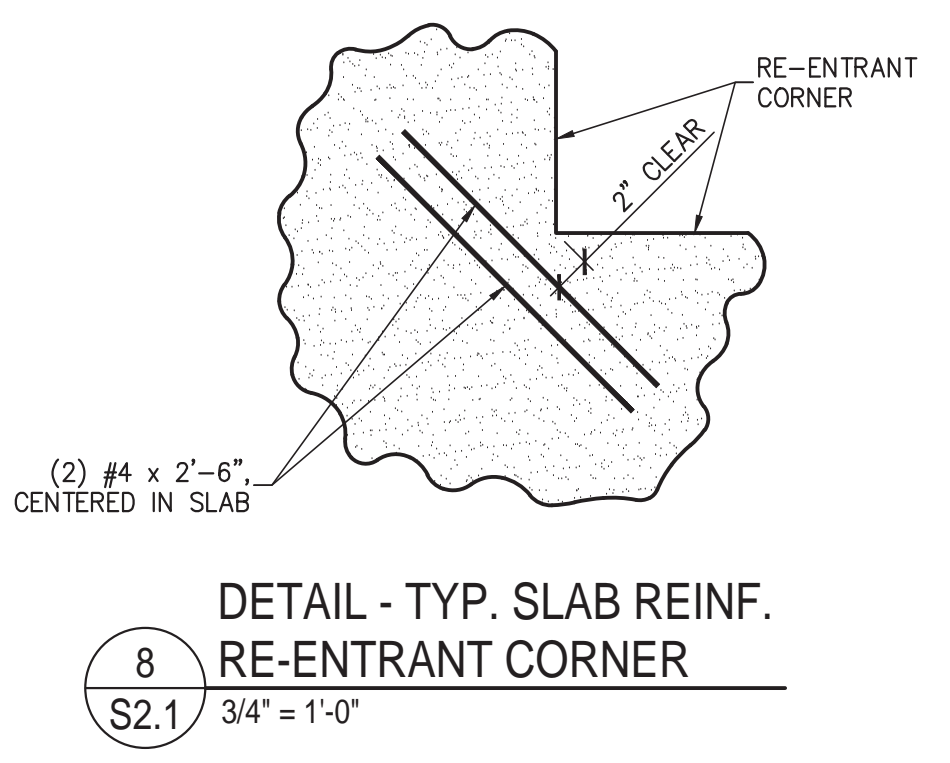
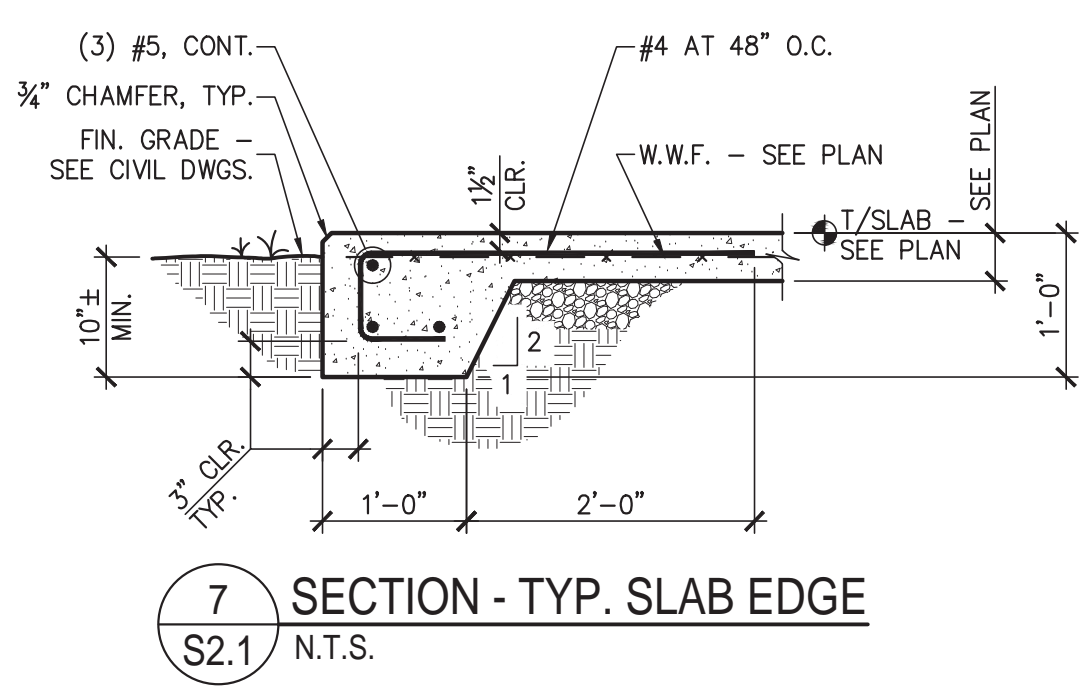
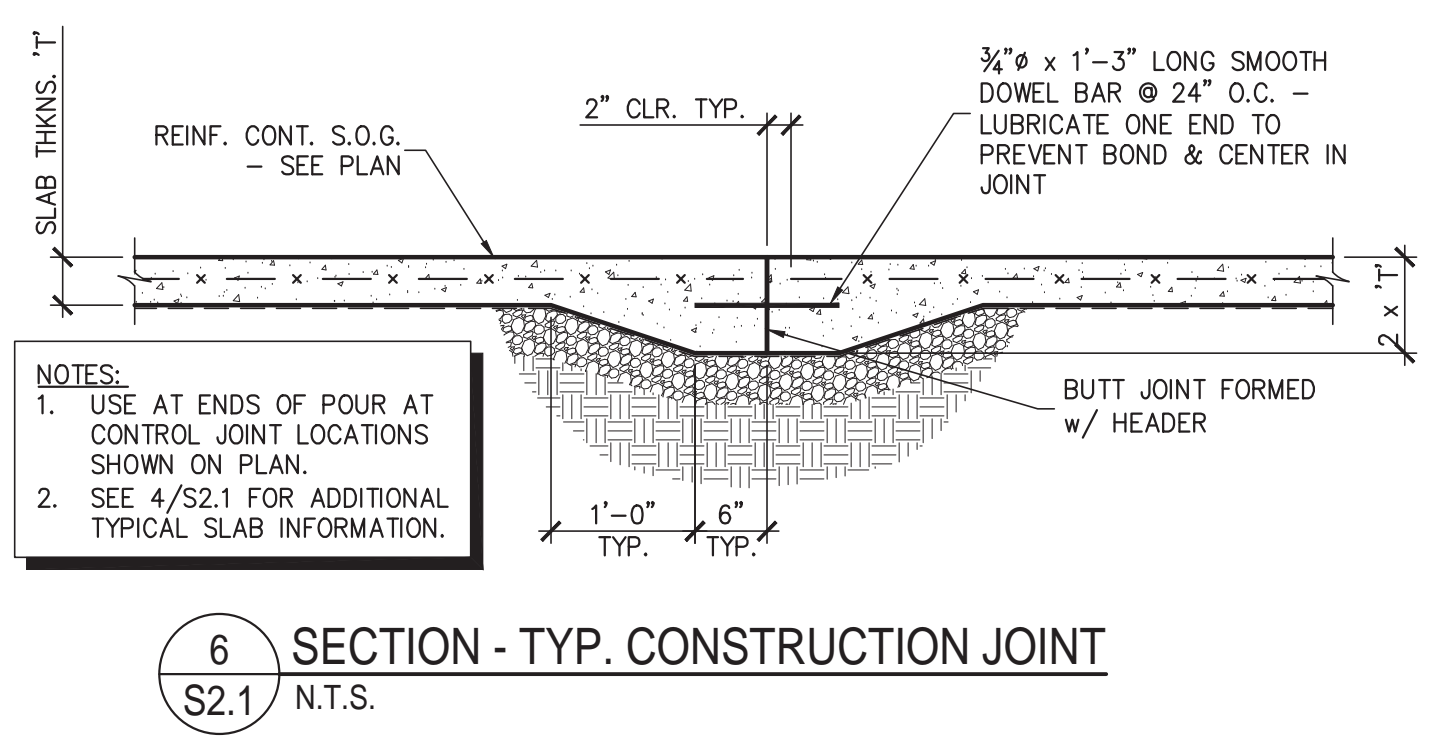
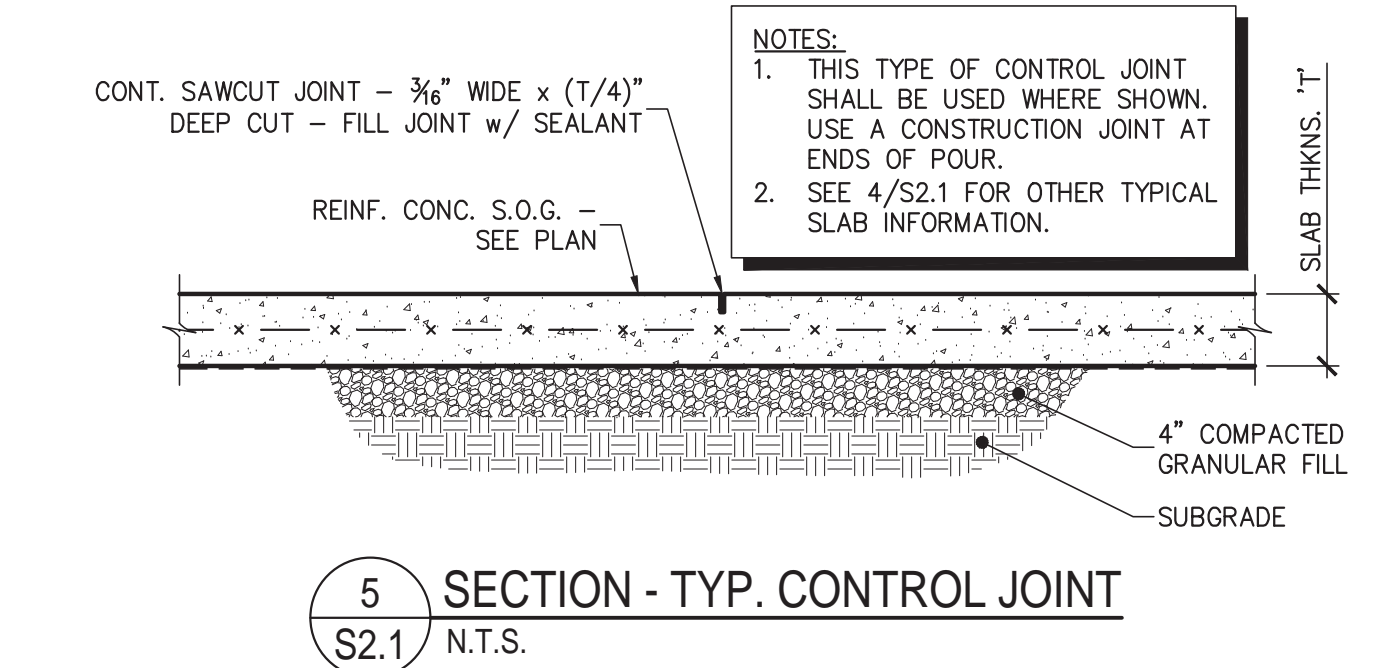
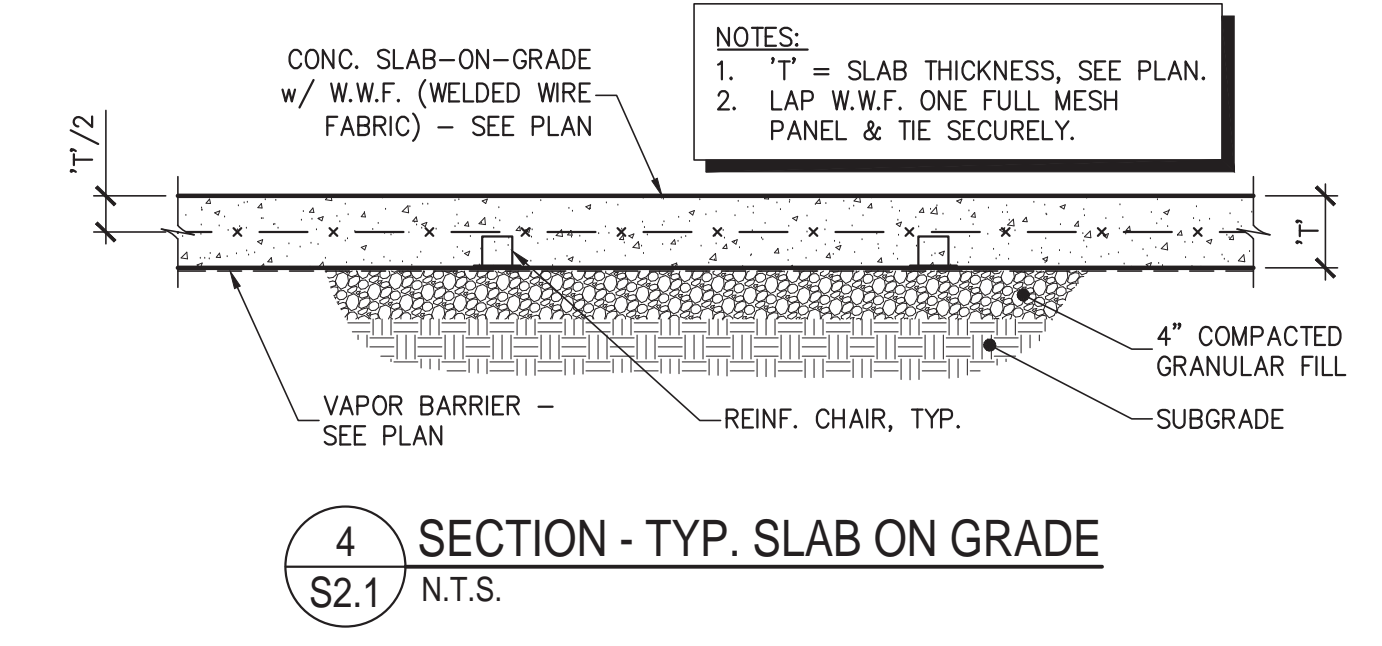
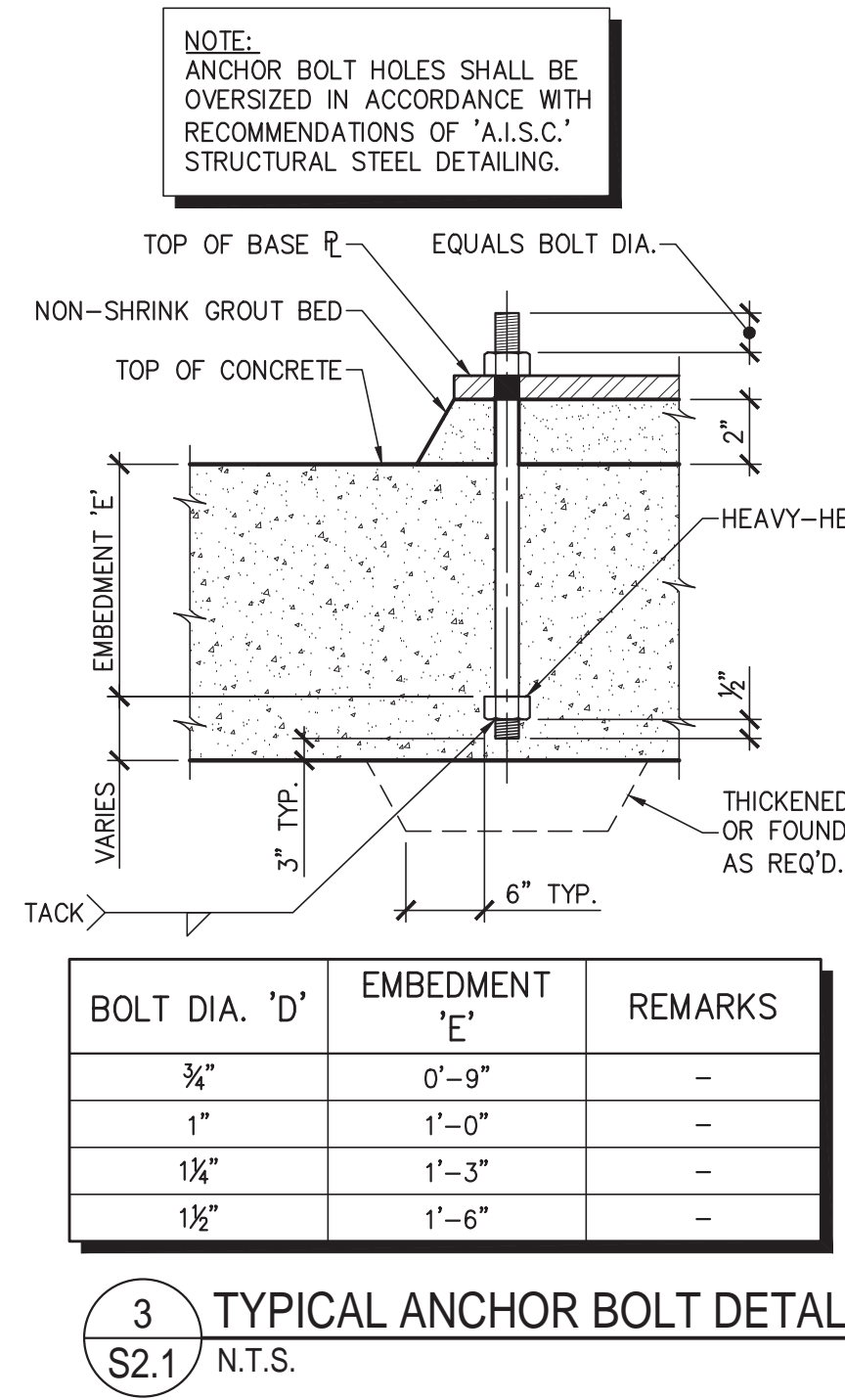
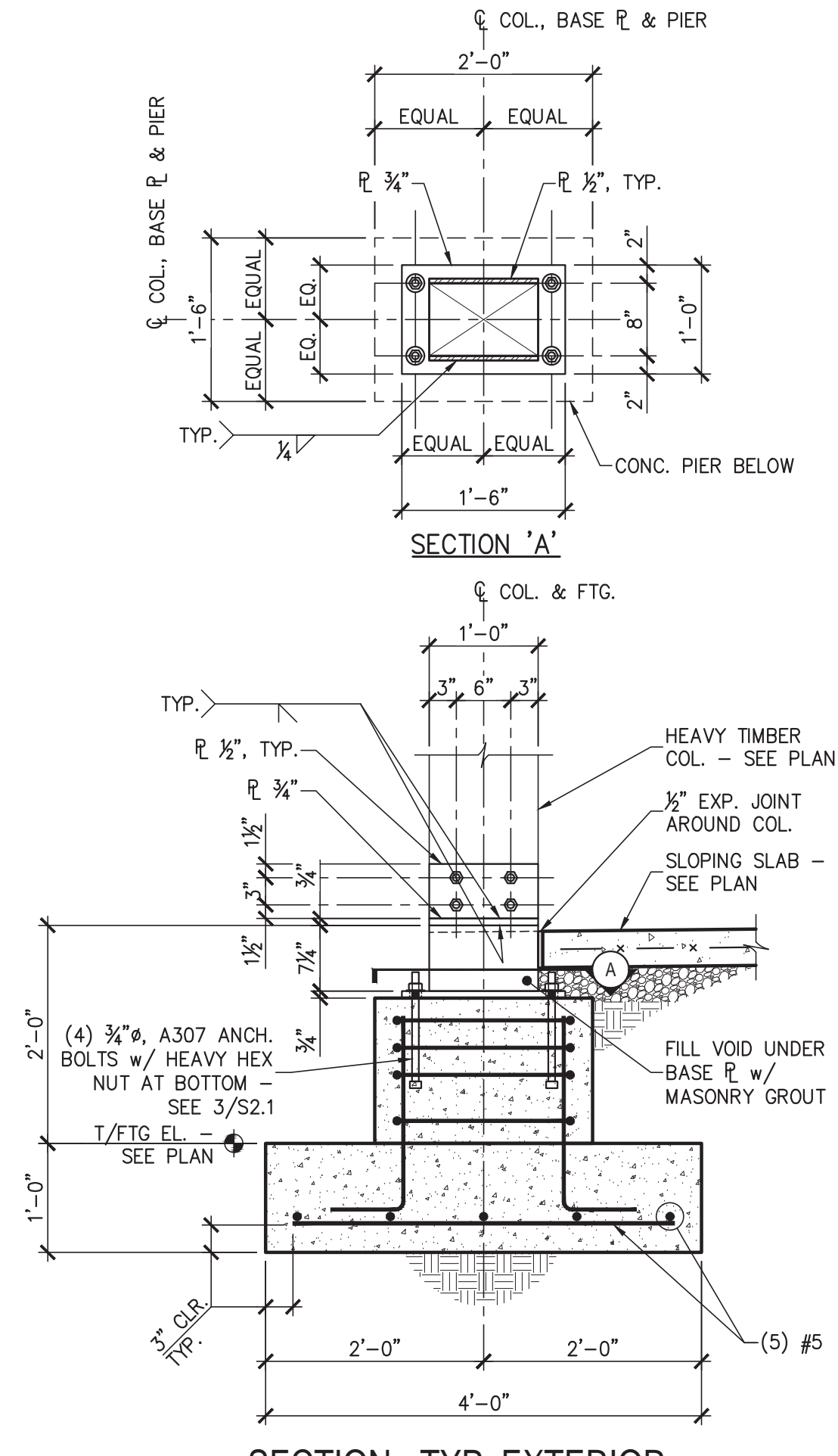
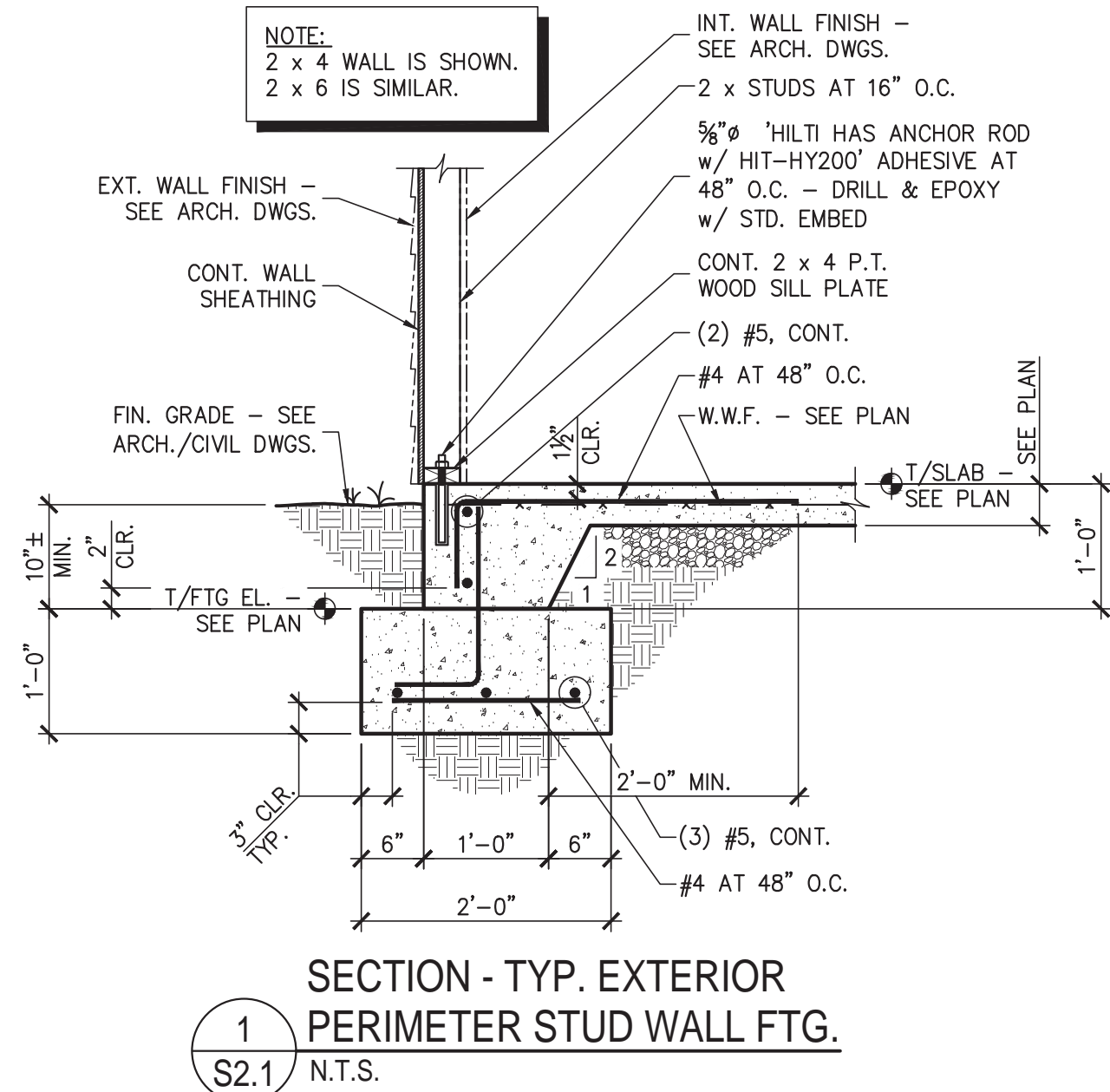
CLIENT PROJECT NO.

PROJECT TITLE  
  
**WILDWOOD PARK WELCOME CENTER & PLAYGROUND SITE**

DRAWING TITLE  
**HIGH ROOF FRAMING PLAN & SECTIONS**

DRAWING NO.  
**S1.3**





**THE EAST GROUP**

Engineering Architecture  
Surveying Technology

Corporate Office  
324 Evans Street  
Greenville, NC 27858  
Tel 252.758.3746 Fax 252.830.3954  
www.eastgroup.com

Branch Office  
4325 Lake Boone Trail, Suite 311  
Raleigh, NC 27607  
Tel 919.784.9330 Fax 919.784.9331

NC Engineering License No. C-0206  
NC Architectural License No. 50213  
NC Landscape Architectural License No. C-427

**RPA ENGINEERING, P.A.**

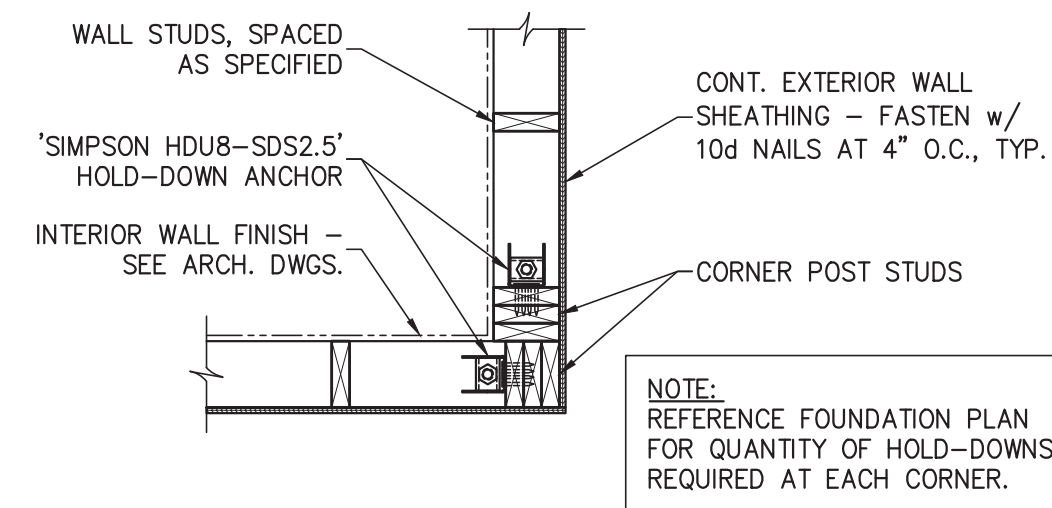
Structural Engineering Solutions  
Engineering License Certificate No. C-2734  
802 Regency Blvd.  
Greenville, NC 27834  
Phone: 252-321-6027  
Fax: 252-352-1179  
RPA Project No.: 20220666

REV	DATE	DESCRIPTION	BY	CHK
A	04.29.22	95% OWNER REVIEW		
B	05.27.22	ISSUE FOR BID		

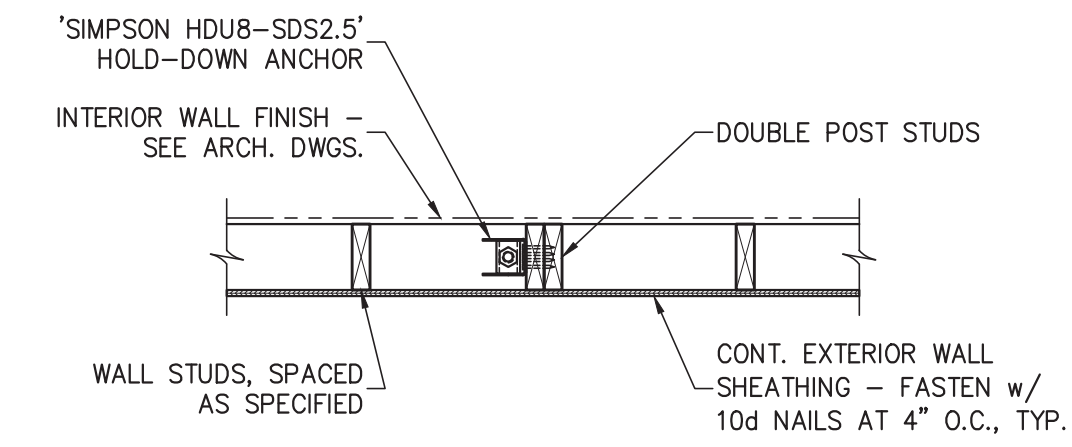
TEG PROJECT NO. 20220005  
CLIENT PROJECT NO.  
PROJECT TITLE  
**Greenville NORTH CAROLINA**  
WILDWOOD PARK WELCOME CENTER & PLAYGROUND SITE  
DRAWING TITLE  
**FOUNDATION SECTIONS & DETAILS**

DRAWING NO.  
**S2.1**

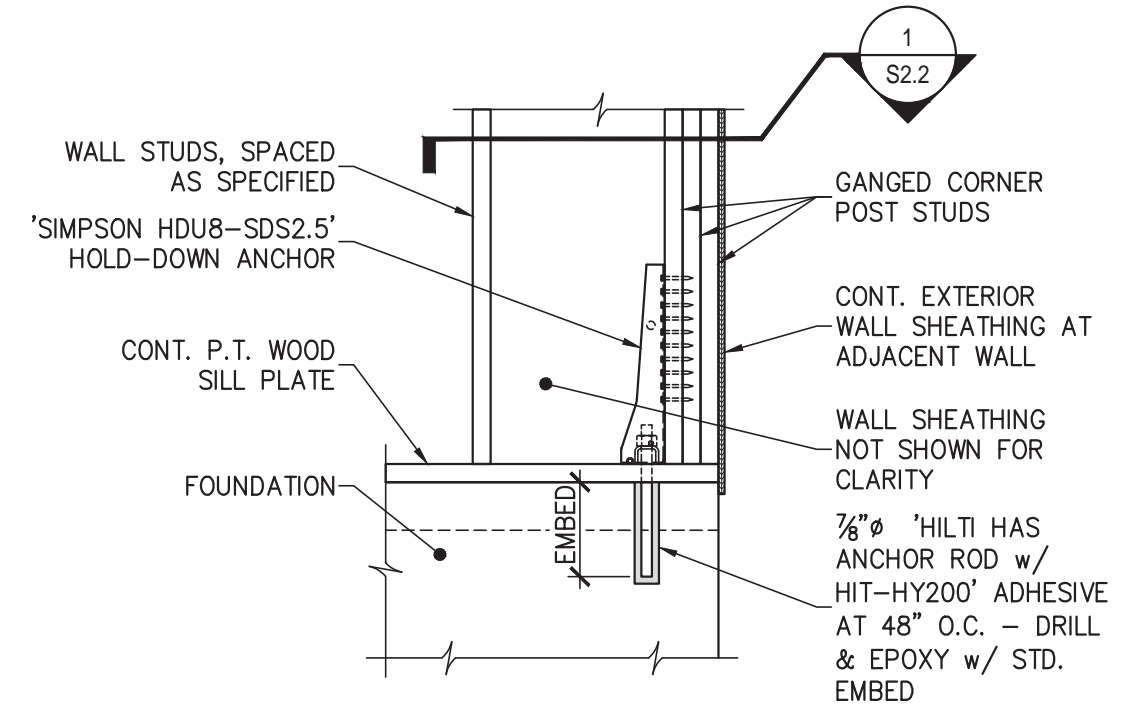




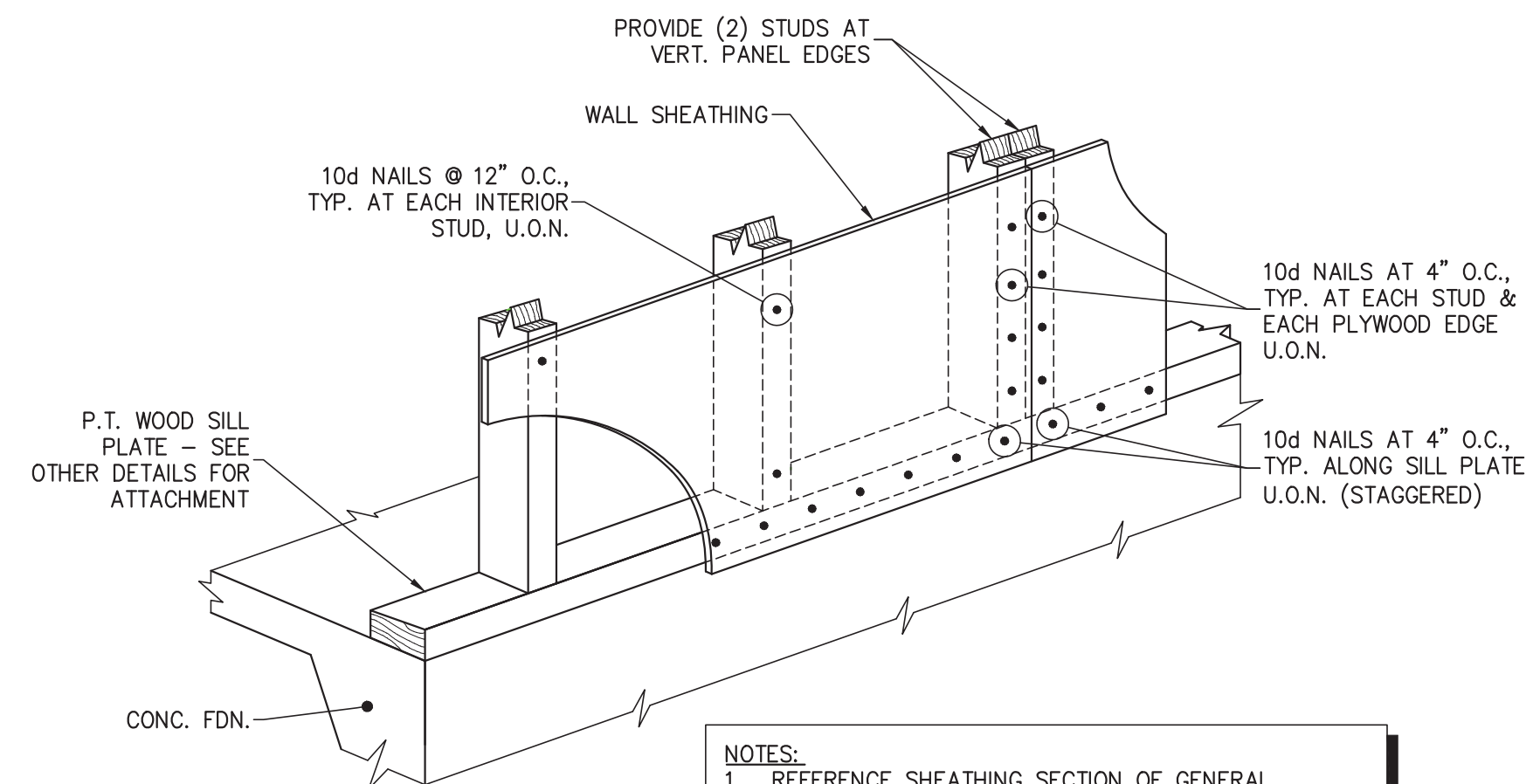
1  
S2.2  
3/4" = 1'-0"



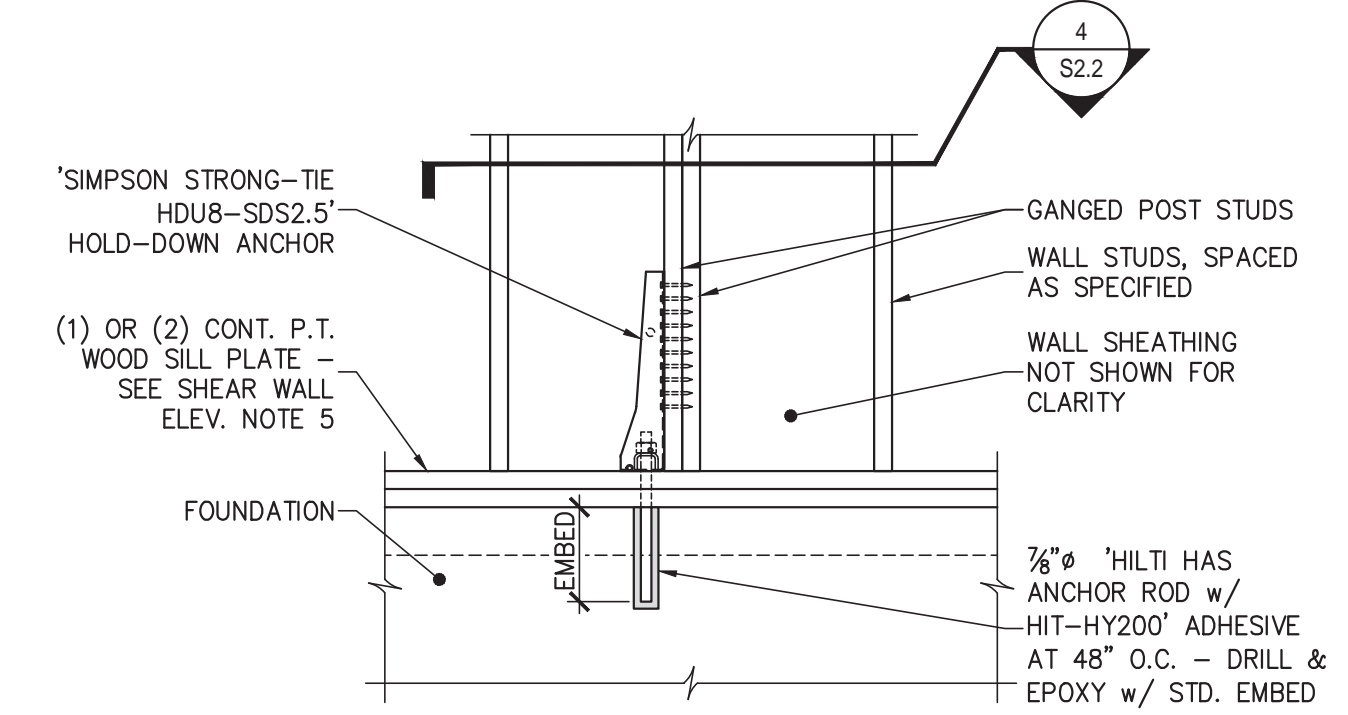
4  
S2.2  
N.T.S.



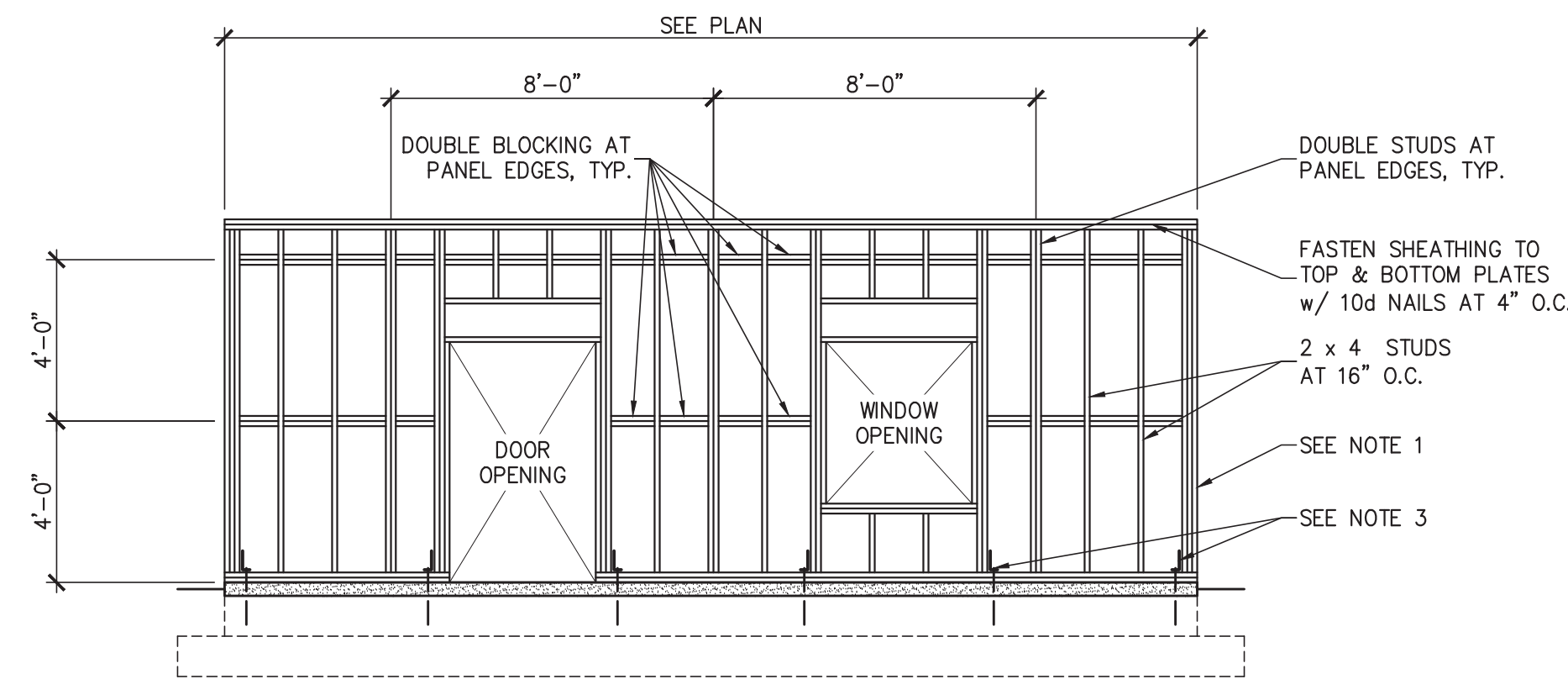
2  
S2.2  
3/4" = 1'-0"



3  
S2.2  
N.T.S.



5  
S2.2  
N.T.S.



6  
S2.2  
N.T.S.

- TYPICAL SHEAR WALL ELEVATION NOTES:**
- CORNER POSTS SHALL HAVE 3 STUDS MINIMUM.
  - ALL EXTERIOR STUD WALLS SHALL BE CONTINUOUSLY SHEATHED AND FASTENED AT PANEL EDGES AND 12" O.C. AT INTERIOR MEMBERS. SEE 3/S2.2. PROVIDE STUD BLOCKING AT 48" O.C. VERTICAL SPACING FOR PANEL JOINTS.
  - PROVIDE 'SIMPSON STRONG-TIE HDU8-SDS2.5' HOLD-DOWN ANCHORS AT EACH SIDE OF EACH CORNER OF BUILDING, AND AT WALL OPENINGS UNLESS OTHERWISE NOTED ON PLAN. SEE HOLD-DOWN DETAILS 2/S2.2 AND 5/S2.2. HOLD-DOWNS ARE NOT REQUIRED AT STEEL COLUMN LOCATIONS.
  - ALL EXTERIOR WALLS ARE SHEAR WALLS UNLESS OTHERWISE NOTED.
  - PROVIDE DOUBLE SILL PLATE IF NAIL SPACING IS LESS THAN 4" O.C AT PANEL EDGES. SEE GENERAL STRUCTURAL NOTES: WOOD DECKING/SHEATHING NOTES FOR NAIL SPACING.



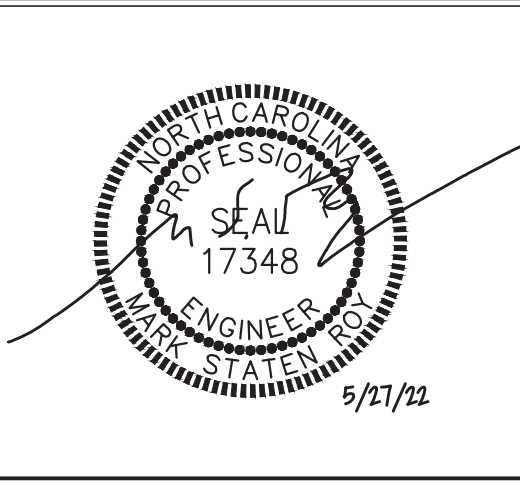
Engineering Architecture  
Surveying Technology

Corporate Office  
324 Evans Street  
Greenville, NC 27858  
Tel 252.758.3746 Fax 252.830.3954  
www.eastgroup.com

Branch Office  
4325 Lake Boone Trail, Suite 311  
Raleigh, NC 27607  
Tel 919.784.9330 Fax 919.784.9331

NC Engineering License No. C-0206  
NC Architectural License No. 50213  
NC Landscape Architectural License No. C-427

**RPA ENGINEERING, P.A.**  
Structural Engineering Solutions  
Engineering License Certificate No. C-2734  
102 Regency Blvd.  
Greenville, NC 27834  
Phone: 252-321-6027  
Fax: 252-352-1179  
RPA Project No.: 2022066



REV	DATE	DESCRIPTION	BY	CHK
A	04.29.22	95% OWNER REVIEW		
B	05.27.22	ISSUE FOR BID		

TEG PROJECT NO. 20220005

CLIENT PROJECT NO.

PROJECT TITLE  
  
 WILDWOOD PARK  
 WELCOME CENTER  
 & PLAYGROUND SITE

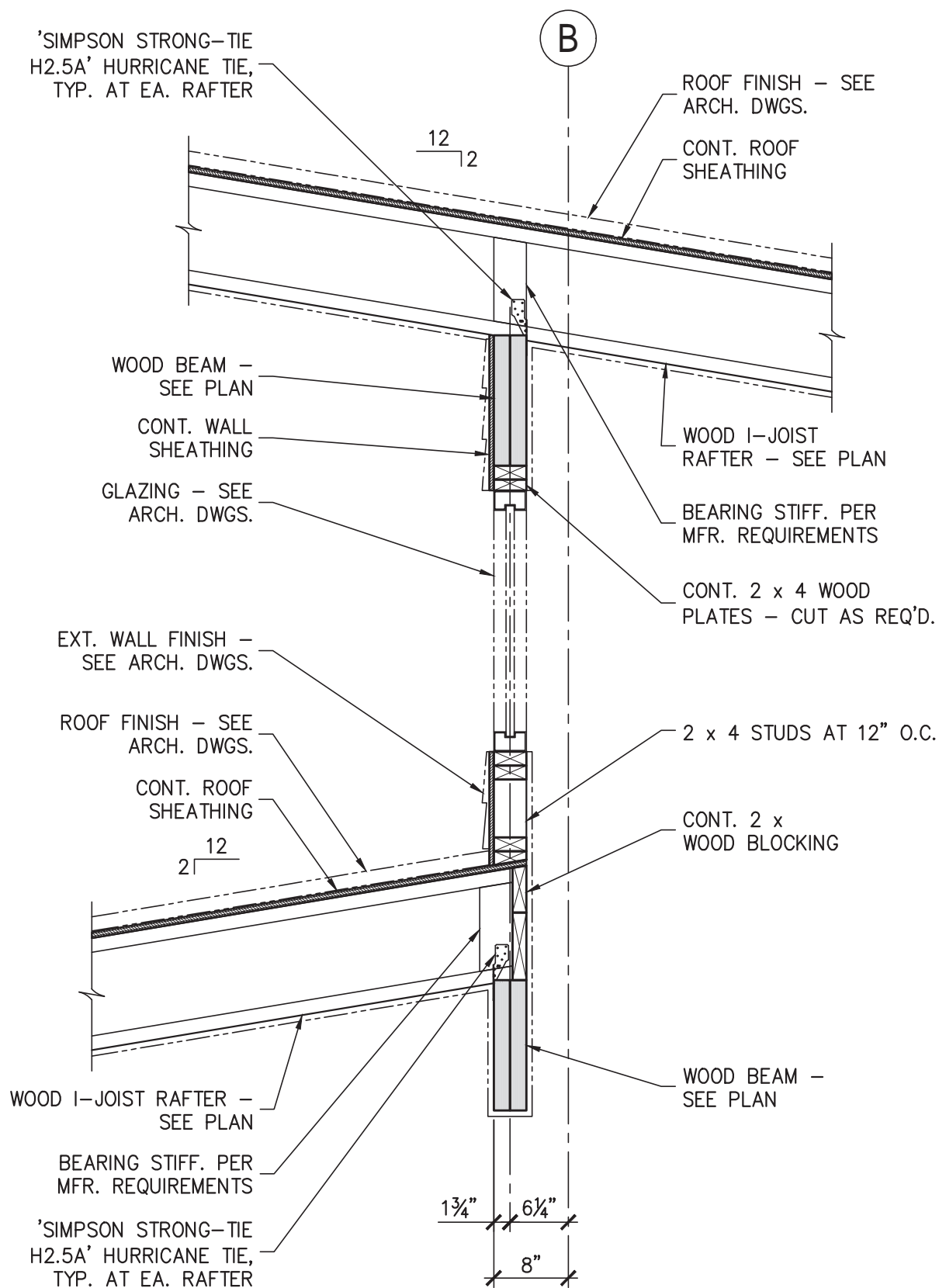
DRAWING TITLE

FOUNDATION DETAILS

DRAWING NO.

**S2.2**





1 SECTION - TYP. RAFTER BRG. AT CLERESTORY  
S3.1 N.T.S.

**STRUCTURAL DESIGN CRITERIA:**

- DESIGN LOADS:**
  - ROOF DEAD LOAD: MAX 4 PSF, MIN (FOR UPLIFT) 2 PSF
  - ROOFING AND INSULATION SHEATHING: 3 PSF
  - ROOF FRAMING: 5 PSF
  - PIPING, DUCT, ETC.: 3 PSF
- LIVE LOADS: ROOF LIVE LOAD - ALL AREAS GREATER OF 20 PSF MINIMUM OR SNOW LOAD; 1ST FLOOR LIVE LOAD - 100 PSF
- SNOW LOAD: GROUND SNOW LOAD = 10 PSF (GREENVILLE, NC); SNOW LOAD IMPORTANCE FACTOR: 1 = 1.0; SNOW EXPOSURE FACTOR = 1.0; SNOW THERMAL FACTOR = 1.0; ROOF SNOW LOAD = 7 PSF; BASIC DESIGN ROOF SNOW LOAD = 7.0 PSF
- WIND LOAD: BASIC WIND SPEED:  $V_{ult} = 121$  MPH (GREENVILLE, NC); RISK CATEGORY: III; WIND EXPOSURE CATEGORY: 'B' (ASCE 7-10); WIND BASE SHEAR (FOR MWFRS):  $V_x = 6K$ ,  $V_y = 31K$ ; INTERNAL PRESSURE COEFFICIENT:  $\pm 0.55$
- SEISMIC LOADS (N.C. STATE BLDG. CODE): SEISMIC IMPORTANCE FACTOR: 1 = 1.0; RISK CATEGORY: I, II, III, IV; COMPLIANCE WITH SECTION 1616.4 ONLY? YES, NO; SEISMIC DESIGN CATEGORY: A, B, C, D; MAPPED SPECTRAL RESPONSE ACCELERATION:  $S_s$  12.2%,  $S_1$  6.2%; SPECTRAL RESPONSE COEFFICIENTS:  $S_{ps}$  13.0%,  $S_{p1}$  9.9%; SEISMIC RESPONSE COEFFICIENT:  $C_s$  0.065; RESPONSE MODIFICATION FACTOR,  $R$  2.0 (LIGHT FRAMED WALLS WITH WOOD SHEATHING); SITE CLASSIFICATION: A, B, C, D, E, F

**CONCRETE MATERIALS SCHEDULE**

LOCATION	MINIMUM COMPRESSIVE STRENGTH (AT 28 DAYS)	REMARKS
FOUNDATIONS	3000 PSI	-
SLAB ON GRADE	4000 PSI	-
EQUIPMENT PADS	3000 PSI	-
MISCELLANEOUS	3000 PSI	-

**GENERAL STRUCTURAL NOTES:**

- GENERAL NOTES:**
  - 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.
  - THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS NOT HEREIN INDICATED.
  - COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS.
  - VERIFY ALL FLOOR AND ROOF OPENING SIZES AND LOCATIONS, EQUIPMENT PAD SIZES AND LOCATIONS, ANCHOR BOLT LAYOUTS, ETCETERA, WITH EQUIPMENT SELECTED.
  - VERIFY BUILDING LOCATION AND ORIENTATION WITH OWNER AND LOT SETBACK REQUIREMENTS BEFORE ANY CONSTRUCTION IS STARTED ON THE PROJECT.
  - CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION DIMENSIONS WHICH IMPACT NEW CONSTRUCTION PRIOR TO FABRICATING ANY REBAR, STEEL, TRUSSES, ETCETERA.
  - DO NOT CUT, NOTCH, OR OTHERWISE MODIFY ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
  - 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.
  - CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL SHORING REQUIRED TO SUPPORT NEW AND EXISTING STRUCTURAL ELEMENTS.
- FOUNDATION:**
  - ALL FOOTINGS SHALL BE ON UNDISTURBED SOIL OR 98% COMPACTED FILL PER ASTM D698.
  - NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIALS.
  - 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.
  - ADVERSE FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION SUCH AS SOFT SOILS, ORGANIC MATTER, ETCETERA, SHALL BE REPORTED TO THE ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED. IF UNDERMINING OF FOOTINGS OCCURS, FILL VOIDS WITH LEAN CONCRETE MIX. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.
- CONCRETE:**
  - 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.
  - GROUT FOR BASE PLATES SHALL BE NON-METALLIC, NON-SHRINKABLE GROUT, AND SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH, AT 28 DAYS, OF 5000 PSI.
  - NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
  - CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH  $3/4"$  x 45 DEGREE CHAMFER, UNLESS OTHERWISE NOTED.
  - 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.
  - SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING / DAMPPROOFING DETAILS.
  - ALL DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
  - SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF FLOOR FINISHES.
  - SEE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR ADDITIONAL WALL / SLAB OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
  - ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
  - WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
  - DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
  - IN-PLACE REINFORCING STEEL, SHALL BE REVIEWED BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
  - AT CORNERS AND INTERSECTIONS, PROVIDE BARS OF THE SAME NUMBER AND SIZE AS THE LONGITUDINAL BARS IN THE FOOTING.
  - CONCRETE MATERIALS SHALL BE AS FOLLOWS:
    - USE TYPE I/II PORTLAND CEMENT CONFORMING TO ASTM C150
    - AGGREGATE SHALL CONFORM TO ASTM C33 (FINE AND COARSE AGGREGATES)
    - AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260
    - PLASTICIZER CAN BE USED TO IMPROVE WORKABILITY IF REQUIRED
  - CONCRETE MIX DESIGN:
    - MAXIMUM WATER/CEMENT RATIO - 0.50 FOR SLAB, 0.55 FOR FOOTINGS AND OTHER CONCRETE UNLESS OTHERWISE NOTED
    - SLUMP SHALL BE 4 INCHES TO 6 INCHES (WITHOUT PLASTICIZER)
    - AIR ENTRAINMENT SHALL BE 4% TO 6% (EXTERIOR CONCRETE)
  - CONCRETE SLAB SHALL BE CURED USING A WATER-BASED CURING COMPOUND. CURING COMPOUND SHALL BE APPLIED TO ALL HORIZONTAL SURFACES. ONCE THE SURFACE WATER DISPAPATES AND THE SURFACE IS NOT MARRIED BY WALKING, APPLY PER MANUFACTURER'S SPECIFICATIONS.
  - CONDUCT SLUMP, AIR, AND STRENGTH TESTS OF CONCRETE IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:
    - 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 AND 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 318-05. KEEP ONE SPECIMEN IN RESERVE.
    - 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.
- STRUCTURAL STEEL:**
  - STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION, SHALL CONFORM TO THE "AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (MARCH 9, 2005), AND THE "AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (MARCH 18, 2005).
  - WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, AWS D1.1. ELECTRODES FOR SHOP AND FIELD WELDS, SHALL BE CLASS E70XX. ALL WELDING SHALL BE DONE BY QUALIFIED, CERTIFIED WELDERS PER THE ABOVE STANDARD.
  - ALL FILLET WELDS SHALL BE A MINIMUM OF  $1/4$  INCH, UNLESS OTHERWISE NOTED.
  - ALL STRUCTURAL STEEL SHAPES USED, SHALL BE IN ACCORDANCE WITH ASTM A992 SPECIFICATIONS ( $F_y = 50$  KSI). ALL STRUCTURAL TUBING USED, SHALL BE IN ACCORDANCE WITH ASTM A500, GRADE B ( $F_y = 46$  KSI). ALL PIPE USED, SHALL BE IN ACCORDANCE WITH ASTM A53 ( $F_y = 35$  KSI). ALL MISCELLANEOUS STEEL USED, SHALL BE IN ACCORDANCE WITH ASTM A36 ( $F_y = 36$  KSI).
  - ALL FIELD BOLTED CONNECTIONS, SHALL BE BEARING TYPE CONNECTIONS (THREADS INCLUDED IN THE SHEAR PLANE), WITH  $3/4$  DIAMETER, ASTM A325 HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED ON THE DRAWING. ALL BOLTS SHALL BE TIGHTENED TO A "SNUG-TIGHT" CONDITION, UNLESS OTHERWISE NOTED.
  - ALL STRUCTURAL STEEL WHICH IS TO BE SPRAYED WITH FIREPROOFING SHALL NOT BE PRIMED OR PAINTED. STEEL WHICH IS NOT SPRAYED WITH FIREPROOFING SHALL BE PRIMED AND PAINTED. DO NOT PAINT SURFACES TO BE EMBEDDED IN CONCRETE.
- WOOD FRAMING:**
  - 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).
  - ALL WOOD FRAMING, DIRECTLY EXPOSED TO WEATHER, OR IN DIRECT CONTACT WITH MASONRY, SOIL OR CONCRETE, SHALL BE PRESSURE TREATED, UNLESS OTHERWISE NOTED.
  - ALL LVLs, DIRECTLY EXPOSED TO WEATHER, OR IN DIRECT CONTACT WITH MASONRY, SOIL OR CONCRETE, SHALL BE EXTERIOR GRADE, UNLESS NOTED OTHERWISE.
  - 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.
  - ALL WALLED CONNECTIONS SHALL BE IN ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE TABLE 2304.9.1 - FASTENING SCHEDULE, UNLESS OTHERWISE NOTED.
  - FRAMING CONNECTIONS THAT ARE BOLTED OR SCREWED, SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD.
  - 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

- WOOD DECKING/SHEATHING:**
  - WALL SHEATHING SHALL BE  $1/2"$  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.).
  - ROOF SHEATHING SHALL BE  $1/2"$  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.
- WOOD I-JOIST FRAMING:**
  - THESE CONTRACT DOCUMENTS DO NOT SPECIFY ALL NECESSARY ACCESSORIES AND INSTALLATION INFORMATION FOR WOOD I-JOISTS. REFERENCE MANUFACTURER'S REQUIREMENTS FOR COMPONENTS NOT SHOWN.
  - SPECIFIED PRODUCTS SHALL BE DESIGNED AND MANUFACTURED TO THE STANDARD SET FORTH IN ICC ES REPORT No. "ESR-1153"
  - WOOD I-JOIST PRODUCTS SHALL BE DESIGNED TO FIT THE DIMENSIONS AND LOADS INDICATED ON THE PLANS.
  - SHOP DRAWINGS SHOWING LAYOUT AND DETAILS NECESSARY FOR DETERMINING FIT AND PLACEMENT IN THE BUILDING SHALL BE PROVIDED BY THE MANUFACTURER.
  - FABRICATION AND/OR CUTTING SHALL NOT PROCEED UNTIL THE ENGINEER OR RECORD HAS APPROVED THE SUBMITTAL PACKAGE.
  - STORED WOOD I-JOISTS SHALL BE PROTECTED FROM THE WEATHER PRIOR TO INSTALLATION. CARE SHALL BE EXERCISED DURING HANDLING TO AVOID ANY DAMAGE.
  - JOISTS ARE TO BE INSTALLED IN ACCORDANCE WITH THE PLANS AND ANY MANUFACTURER'S DRAWINGS, AND INSTALLATION RECOMMENDATIONS. TEMPORARY CONSTRUCTION LOADS THAT CAUSE STRESSES BEYOND DESIGN LIMITS ARE NOT PERMITTED. SAFETY BRACING SHALL BE PROVIDED BY THE INSTALLER TO KEEP THE JOISTS STRAIGHT AND PLUMB AS REQUIRED, AND TO ENSURE ADEQUATE LATERAL SUPPORT FOR EACH INDIVIDUAL JOIST MEMBER AND THE ENTIRE SYSTEM UNTIL THE SHEATHING MATERIAL IS APPLIED.
  - THE CONTRACTOR SHALL NOTIFY THE JOIST MANUFACTURER'S REPRESENTATIVE, PRIOR TO ENCLOSING THE JOIST, TO PROVIDE AN OPPORTUNITY FOR REVIEW OF THE INSTALLATION.

NOTE:  
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**CONCRETE REBAR SPLICE SCHEDULE**

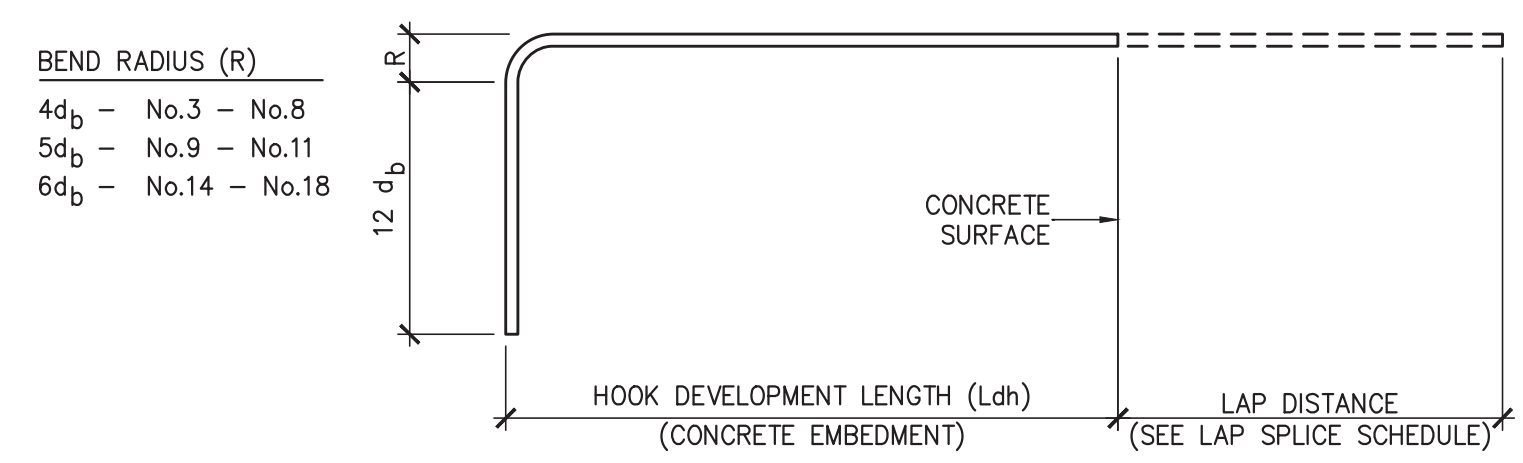
BAR SIZE	LAP LENGTH (in.)		
	$f'_c = 3000$ psi	$f'_c = 4000$ psi	$f'_c = 5000$ psi
#4	22	19	17
#5	28	24	21
#6	32	29	26
#7	48	42	37
#8	55	48	43
#9	62	54	48
#10	68	60	53
#11	76	66	59

- NOTES:
- CONCRETE IS NORMAL WEIGHT CONCRETE. IF LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LENGTHS IN TABLE BY 1.3.
  - BAR YIELD STRENGTH ( $f_y$ ) IS 60 KSI.
  - BAR SPACING AND COVER REQUIREMENTS OF ACI SECTION 25.4.2.2 ARE ASSUMED TO BE MET. IF NOT, MULTIPLY LENGTHS IN TABLE BY 1.5.
  - REDUCTION OF EXCESS REINFORCEMENT NOT TAKEN.
  - IF MORE THAN 12" OF FRESH CONCRETE IS CAST IN MEMBER BELOW HORIZONTAL SPLICE, MULTIPLY LENGTHS IN TABLE BY 1.3.

**EXPOSED CONCRETE FINISH SCHEDULE**

AREA	FINISH	COMMENTS
BASEMENT WALLS	SMOOTH FORM	SEE NOTE 1
ALL EXTERIOR WALLS, CURBS, UNLESS OTHERWISE NOTED	SMOOTH FORM	SEE NOTE 1
EXTERIOR CONCRETE PAVEMENT, SIDEWALKS	COARSE BROOM	SEE NOTE 1
SLAB ON GRADE	TROWEL	SEE NOTE 1
EXT. EQUIP. PADS	COARSE BROOM	SEE NOTE 1
EXTERIOR STAIRS	COARSE BROOM	SEE NOTE 1

- NOTES:
- SEE SPECIFICATIONS SECTION, '03300 CAST-IN-PLACE CONCRETE', FOR ADDITIONAL INFORMATION.



**STANDARD HOOKS IN TENSION (PER ACI 318-02)**

**HOOK DEVELOPMENT LENGTH Ldh (INCHES)**

BAR SIZE	$f'_c$ 3000 psi	$f'_c$ 4000 psi	$f'_c$ 5000 psi
#3	9	7	7
#4	11	10	9
#5	14	12	11
#6	17	15	13
#7	19	17	15
#8	22	19	17
#9	25	22	19
#10	28	24	22
#11	31	26	24

- NOTES:
- CONCRETE IS NORMAL WEIGHT CONCRETE. IF LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LENGTHS IN TABLE BY 1.3.
  - BAR YIELD STRENGTH ( $f_y$ ) IS 60 KSI.
  - SIDE COVER REQUIREMENTS OF ACI SECTION 25.4.3.2 ARE ASSUMED TO NOT BE MET.
  - TIE OR STIRRUP REQUIREMENTS OF ACI SECTION 25.4.3.2 ARE ASSUMED TO NOT BE MET.
  - REDUCTION OF EXCESS REINFORCEMENT IS NOT TAKEN.
  - HOOK DEVELOPMENT LENGTH IS VALID FOR 180° HOOKS ALSO.
- $d_b$  = BAR DIAMETER

**THE EAST GROUP**

Engineering Architecture  
Surveying Technology

Corporate Office  
324 Evans Street  
Greenville, NC 27858  
Tel 252.758.3746 Fax 252.830.3954  
www.eastgroup.com

Branch Office  
4325 Lake Boone Trail, Suite 311  
Raleigh, NC 27607  
Tel 919.784.9330 Fax 919.784.9331

NC Engineering License No. C-0206  
NC Architectural License No. 50213  
NC Landscape Architectural License No. C-427

**RPA ENGINEERING, P.A.**

Structural Engineering Solutions  
Engineering License Certificate No. C2734  
102 Regency Blvd.  
Greenville, NC 27834  
Phone: 252-321-6027  
Fax: 252-352-2179  
RPA Project No.: 2022066

Professional Engineer Seal  
17348  
5/21/22

REV	DATE	DESCRIPTION	CHK
A	04.29.22	95% OWNER REVIEW	
B	05.27.22	ISSUE FOR BID	

TEG PROJECT NO. 20220005

CLIENT PROJECT NO.

PROJECT TITLE

**Greenville NORTH CAROLINA**

WLDWODE PARK WELCOME CENTER & PLAYGROUND SITE

DRAWING TITLE  
**STRUCT. DESIGN CRITERIA, GEN. STRUCT. NOTES SCHEDULES & ROOF SECTION**

DRAWING NO.  
**S3.1**



**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 COPPER TUBING, CPVC OR FLEXIBLE PLASTIC TUBING (PEX). PIPING BELOW SLAB SHALL BE SOFT COPPER TUBING, 10'-0" MINIMUM, WITH NO JOINTS. COPPER TUBING BELOW GRADE SHALL BE UTILIZED AS THE ELECTRICAL SYSTEM GROUNDING ELECTRODE.
8. ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) 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 SADDLES 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. THE ENTIRE PLUMBING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH NC PLUMBING CODE.
17. ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.
18. 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.
19. 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.
20. P.C. SHALL PROTECT ALL PLUMBING PIPE AS IT COMES UP THROUGH CONCRETE PER SECTION 305.1 OF THE N.C. PLUMBING CODE.

FIXTURE CALCULATIONS JUSTIFICATION			
OCCUPANCY = BUSINESS	MINIMUM PLUMBING FIXTURES FROM TABLE 403.1		
		TOTAL REQUIRED	TOTAL PROVIDED
NET AREA FOR OCCUPANT CALC.: CAPACITY OF 4,400 SF SANCTUARY = 5 PEOPLE	MALES	1 WC 1 LAVATORY	2 WC 2 UR 2 LAV
DIVISION OF FACILITIES PER TABLE 403.4: MALE: 50% FEMALE: 50%	FEMALES	1 WC 1 LAVATORY	4 WC 2 LAV
5 x .5 = 2.5 FEMALE 5 - 2.5 = 2.5 MALE	DRINKING FOUNTAINS	1 FOUNTAIN	1 HI/LOW

FIXTURE UNIT REQUIREMENTS	
POTABLE WATER SUPPLY	67.6 GPM USE 4" SERVICE
WASTE	75.0 FU USE 4" SERVICE

EWH SCHEDULE								
TAG	LOCATION	CAP	ELEMENT	TEMP	RCVY @ 60° RISE	MFR / MODEL no.	ELECT'L	NOTES
WH	DUST. 105 ROOM	40	(2) 4500 W	110	31 GAL.	A.O. SMITH No. DEN-40	208V 1ø 21.7A	1,3,4,5

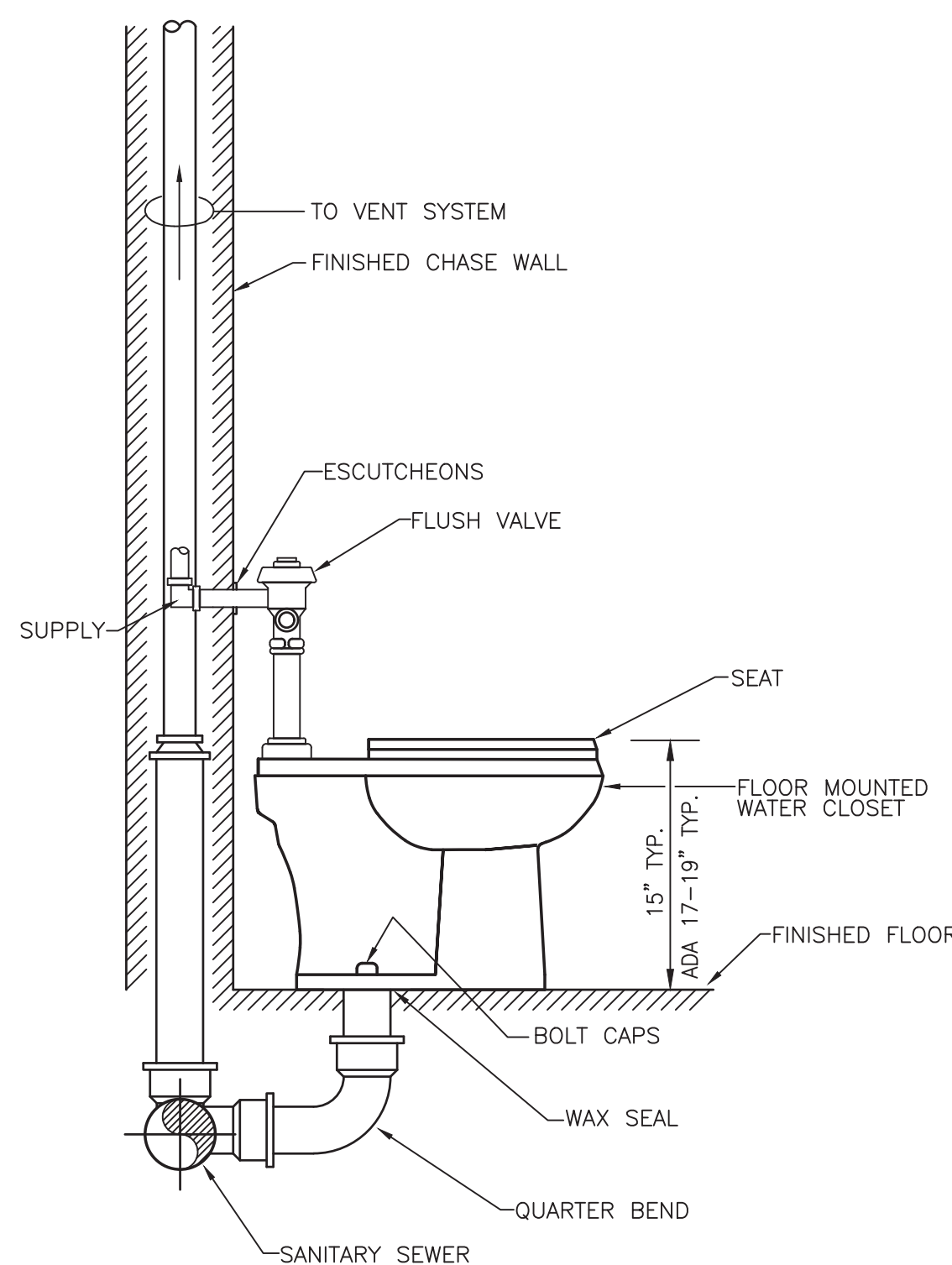
NOTES:  
 1) STATE INDUSTRIES, LOCHNVAR, OR RHEEM/RUID MEETING OR EXCEEDING SPECIFICATIONS ARE ACCEPTABLE SUBSTITUTES  
 2) PROVIDE BRASS BODY RECIRCULATION PUMP RATED FOR 8 GPM @ 10' HEAD, 1/12 hp, 115V, B&G No. LR-15B OR EQUAL BY TACO OR ARMSTRONG.  
 3) PROVIDE EWH WITH NON-SIMULTANEOUS DUAL ELEMENTS 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 (gpl)  
 ELEMENT = (qty) WATTAGE  
 TEMP = HW OUTPUT TEMPERATURE (deg F)  
 RCVY = RECOVERY @ 100 deg F RISE (gph)  
 POU = POINT OF USE WATER HEATER

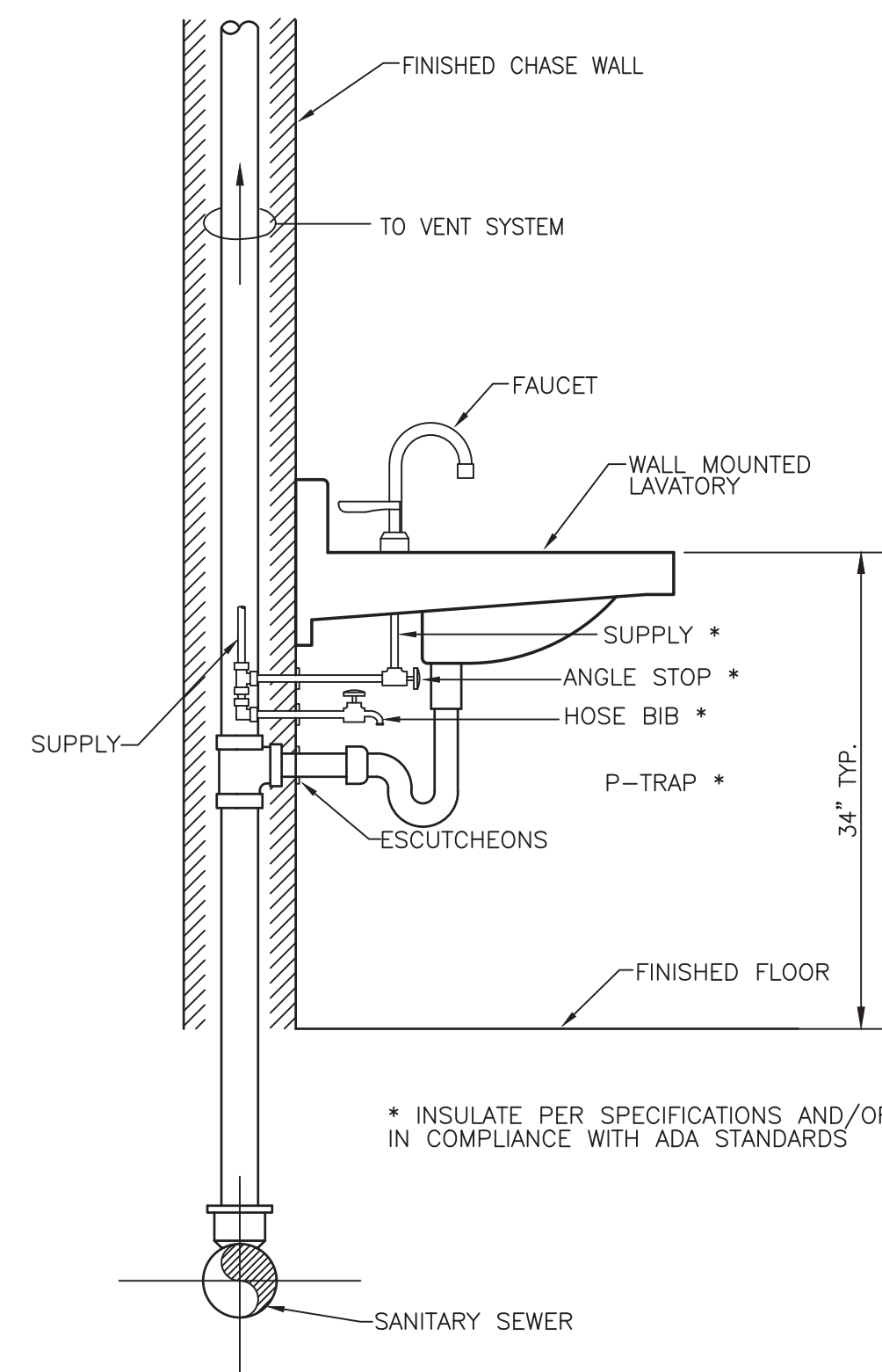
# PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	FINISH	COLD	HOT	VENT	WASTE	ADA
AFH	WALL HYDRANT - WOODFORD SANITARY AUTOMATIC DRAINING FREEZELESS M# B65 (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	CHROME	3/4"				
CO	CLEAN-OUT IN FLOOR - ZURN MODEL # ZN-1444-BP WITH INSIDE CAULK CONNECTION (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	BRONZE				3"	
BF	STAINLESS STEEL, REFRIGERATED, STANDALONE, IN WALL RECESSED BOTTLE FILLING STATION WITH MOUNTING FRAME AND VISUAL USER INTERFACE. ELKAY #LZWSMDK.	BY ARCH.	3/8"		1-1/2"	2"	YES
DF	NON-REFRIGERATED, BI-LEVEL, STAINLESS STEEL DRINKING FOUNTAIN, FACE-MOUNTED, ONE PIECE. CONTOUR-FORMED BASIN WITH ROUNDED CORNERS AND EDGES REDUCES SPATTER. ELKAY #EDFP217C.	BY ARCH.	3/8"		1-1/2"	2"	YES
FD	FLOOR DRAIN - ZURN M# ZN415B WITH TYPE "B" STRAINER (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)	NICK-BRNZ				3"	
LAV	LAVATORY - KOHLER "HUDSON" WALL HUNG LAVATORY MODEL NO. K-2867 ENAMELED CAST IRON FAUCET - MOEN NO. 8862 TWO-HANDLE METERING OR EQUAL BY KOHLER TRUEBRO HANDI LAV-GUARD INSULATION KIT M# 102W (OR EQUAL FROM MANUFACTURERS SPECIFICATIONS).	WHITE CHROME WHITE	- 1/2"	- 1/2"	1 1/2"	2"	YES YES
MB	MOP SINK - EL MUSTEE 24" X 36" MOP SINK M# 63M FAUCET - EL MUSTEE MOP SINK FAUCET M# 63.600A (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION.)		3/4"	3/4"		2"	3"
UR	URINAL - WHITE VITREOUS CHINA, WALL HUNG, KOHLER "FRESHMAN" K-4989-T-0 FLUSH VALVE - ZURN Z6003AV-WS1	WHITE CHROME			1-1/2"	2"	YES YES
WC	WATER CLOSET - TANK TYPE WHITE KOHLER "HIGHLINE" INGENIUM SYSTEM ELONGATED TOILET MODEL NO. K-3658 SEAT - KOHLER K-4666-SA ANTI-MICROBIAL OPEN FRONT SEAT W/ SELF SUSTAINING CHECK HINGE TRIP LEVER - POLISHED CHROME-WIDE SIDE OF STALL	WHITE WHITE CHROME				2" 3"	YES YES
WCO	WALL-CLEAN-OUT - ZURN M# ZN-1441-BP (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)	BRONZE					2"

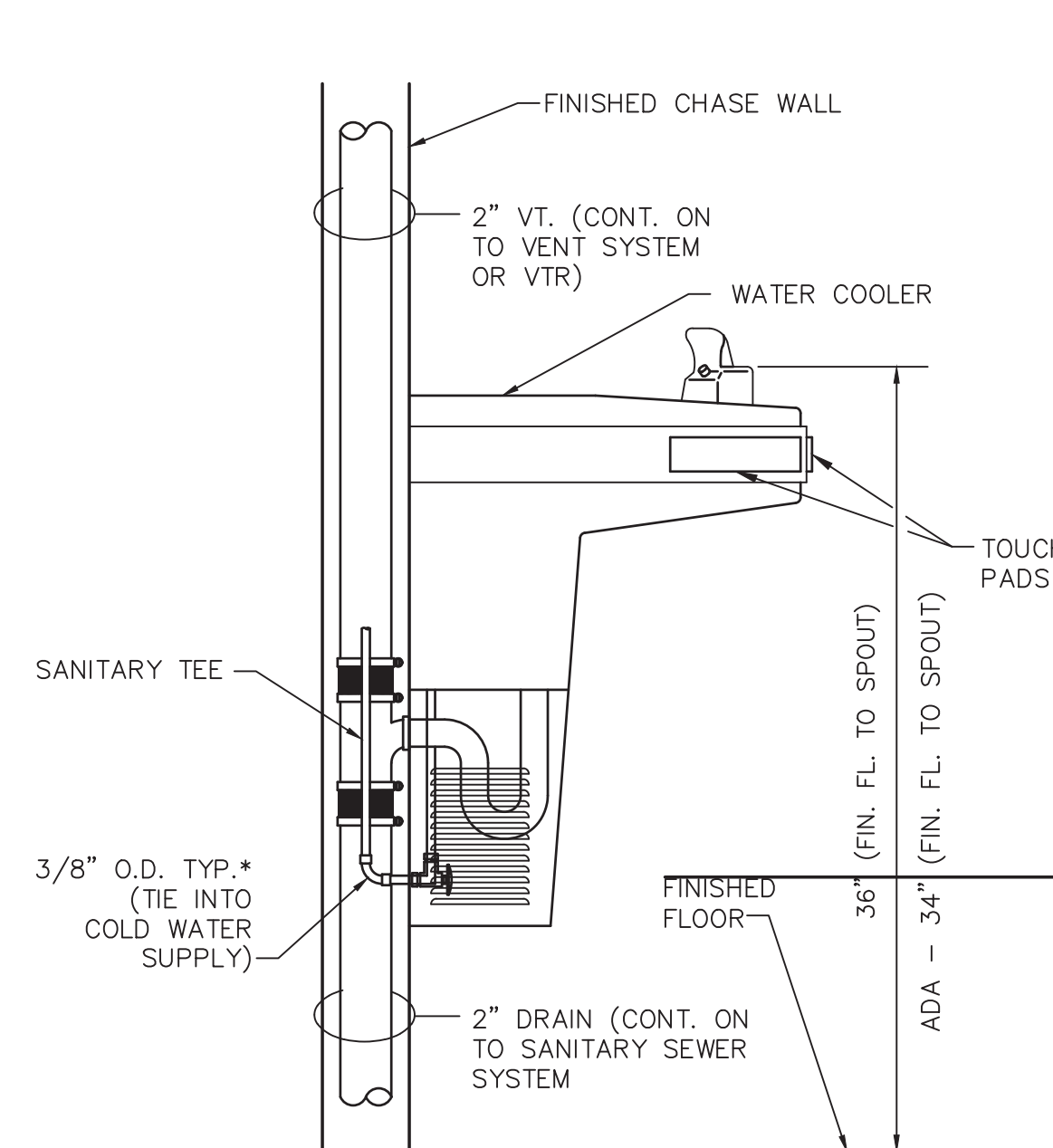
\*MODEL NUMBERS ARE PROVIDED TO ESTABLISH A LEVEL OF QUALITY. EQUAL QUALITY PRODUCTS ARE ACCEPTABLE.



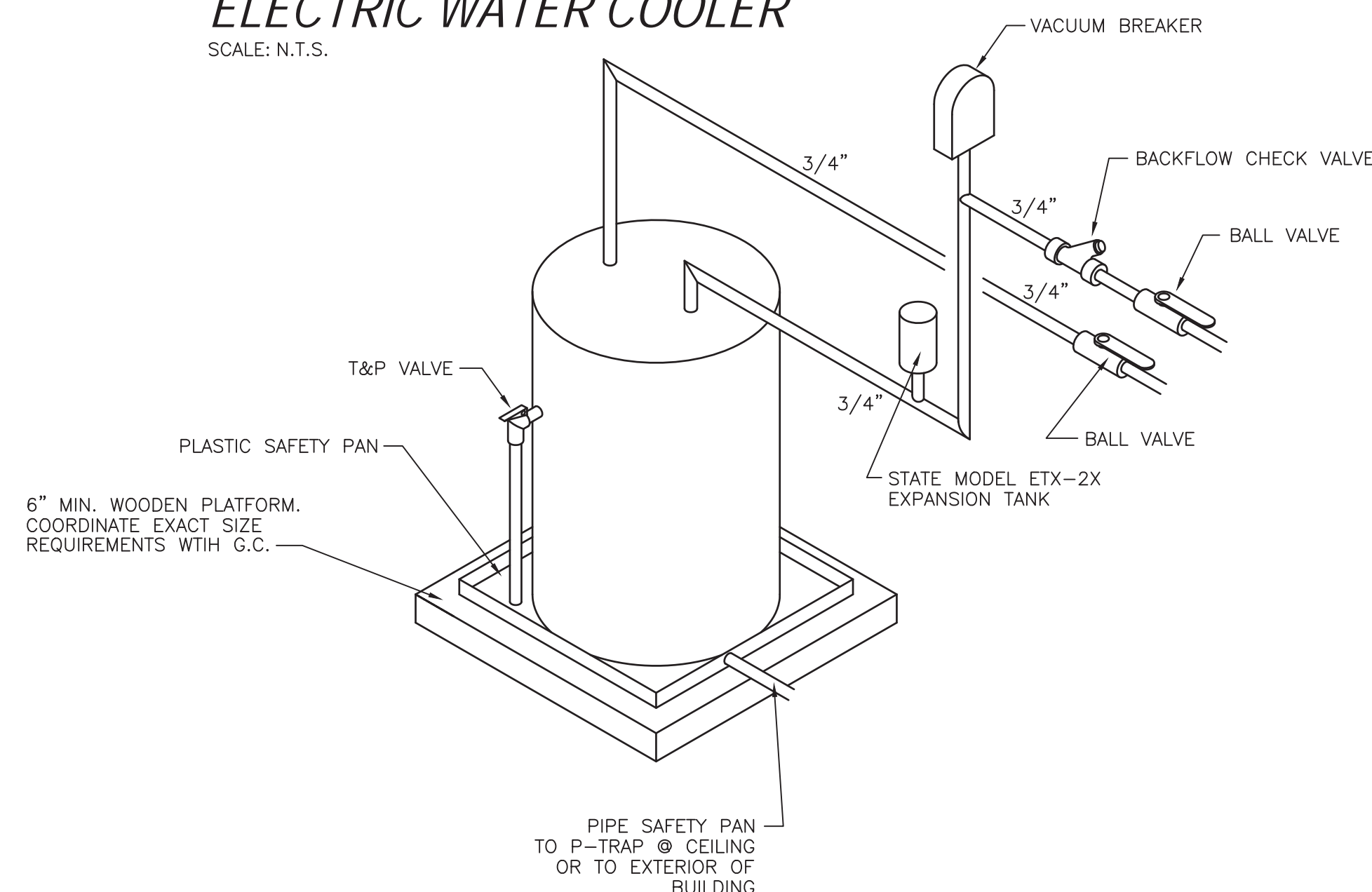
**WATER CLOSET**  
SCALE: N.T.S.



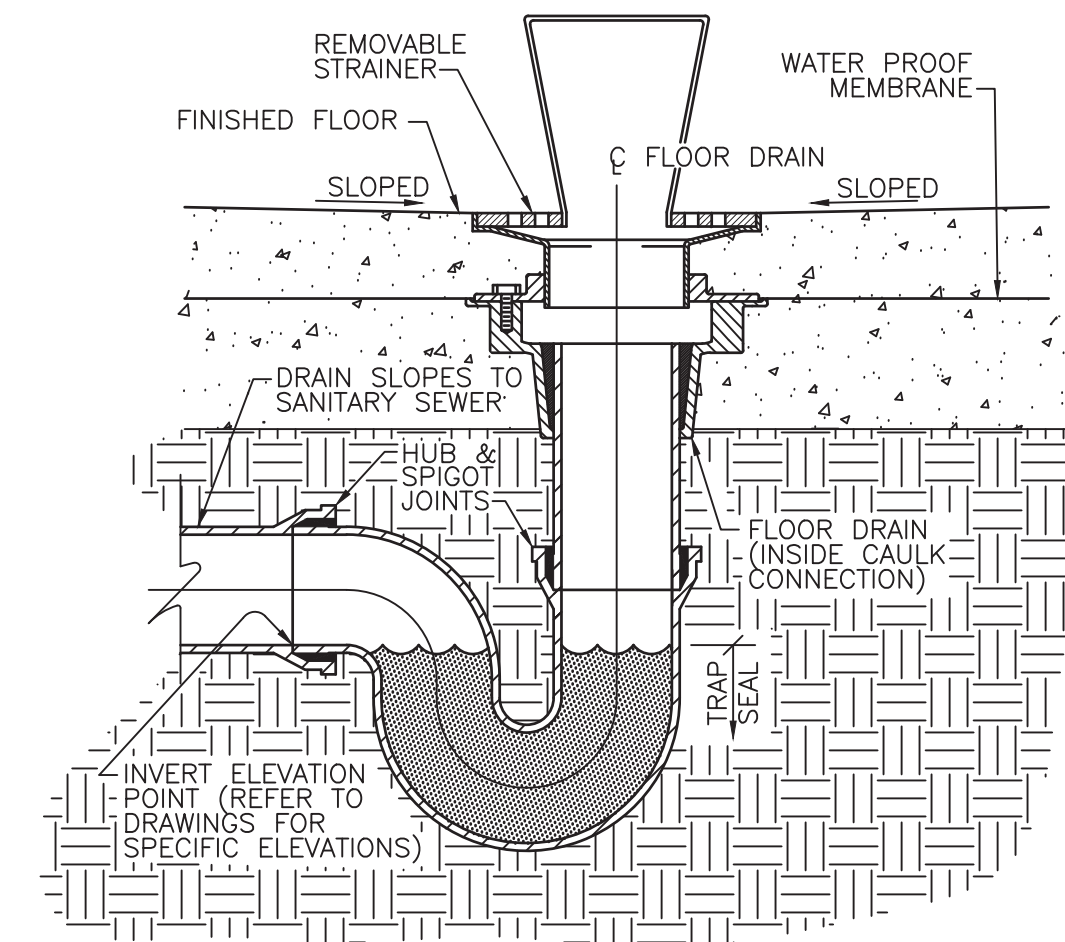
**LAVATORY - WALL MOUNTED**  
SCALE: N.T.S.



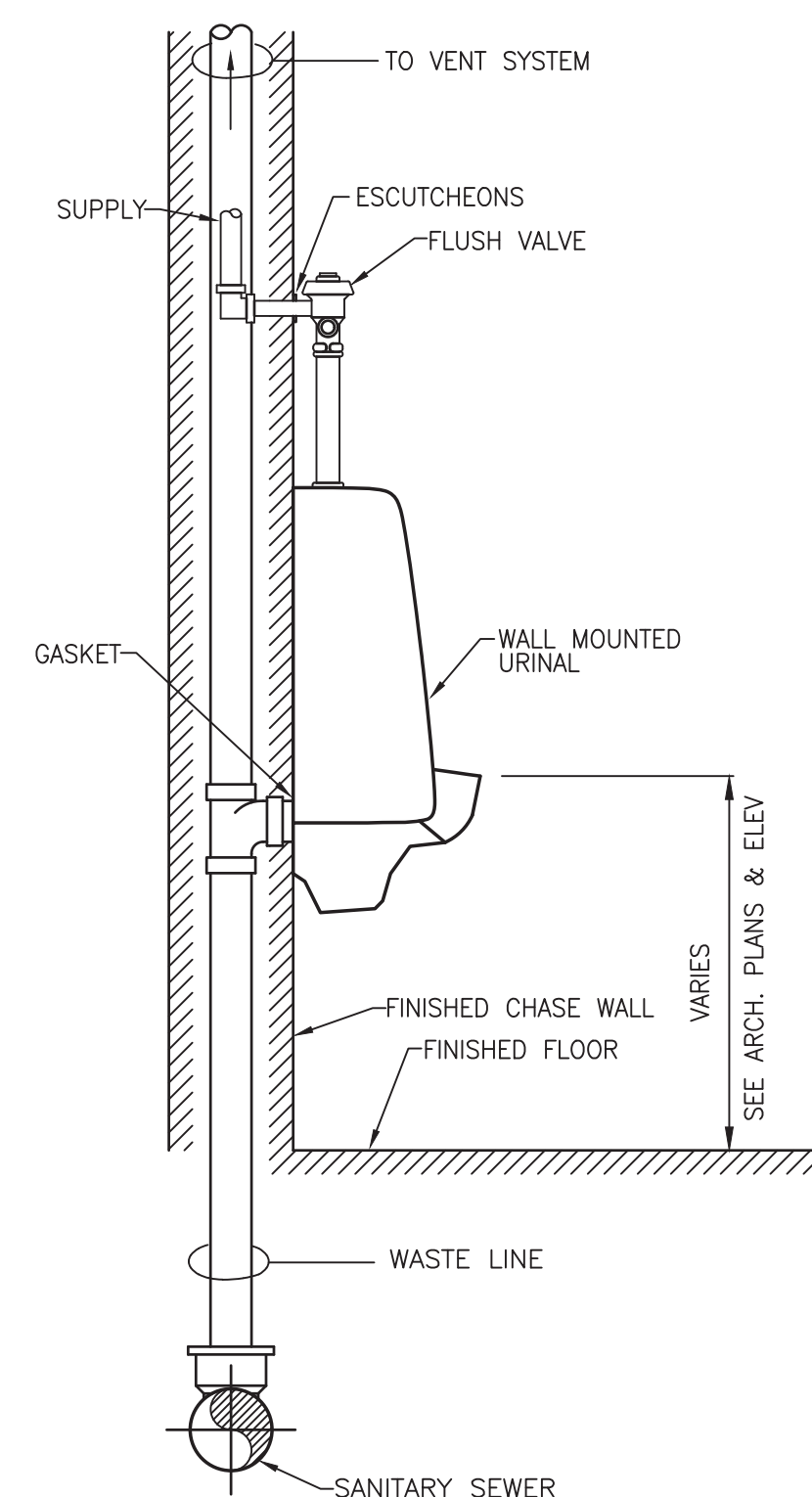
**ELECTRIC WATER COOLER**  
SCALE: N.T.S.



**ELECTRIC WATER HEATER**  
SCALE: N.T.S.



**HUB DRAIN**  
SCALE: N.T.S.



**URINAL**  
SCALE: N.T.S.

**THE EAST GROUP**  
 ■ Engineering ■ Architecture  
 ■ Surveying ■ Technology

Corporate Office  
 824 Evans Street  
 Greenville, NC 27858  
 Tel 252.758.3746  
 Fax 252.830.3954

Branch Office  
 4325 Lake Boone Trail, Suite 311  
 Raleigh, NC 27607  
 Tel 919.784.6330  
 Fax 919.784.6331

NC Engineering License No. C-03206  
 NC Architectural License No. 50213  
 NC Landscape Architectural License No. C-427

**ENGINEERING**  
 SURVEYORS OF N.C. P.A.

102-42 RENOXY HALL  
 Greenville, NC 27834  
 E-Mail Address: genn@theeastgroup.com  
 Phone: (252) 48-4833  
 Fax: (252) 48-4846

ES Project No: **ES2023**

Professional Engineer Seal for Wilson P. D.

Professional Engineer Seal for Wilson P. D.

REV.	DATE	DESCRIPTION
A	04.29.22	ISSUE OWNER REVIEW
B	05.27.22	ISSUED FOR BID

PROJECT NO. \_\_\_\_\_  
 CLIENT PROJECT NO. \_\_\_\_\_

**Greenville NORTH CAROLINA**  
 WILDWOOD PARK WELCOME CENTER

DRAWING TITLE  
 SCHEDULES AND DETAILS

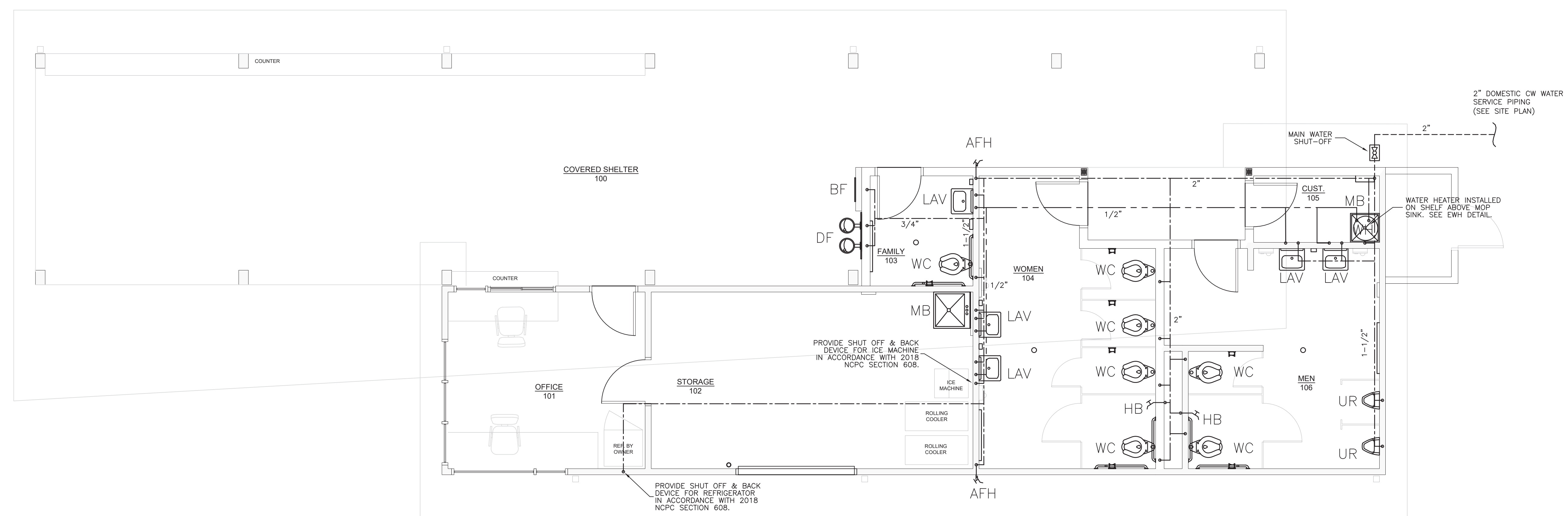
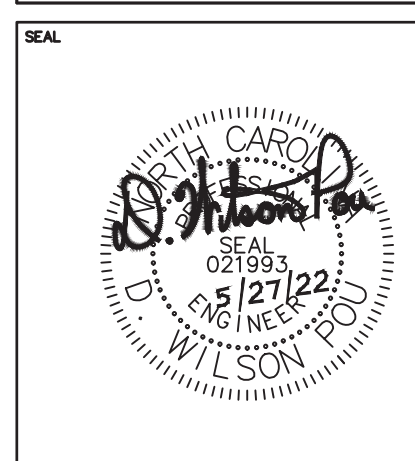
DRAWING NO.  
**P0.1**

This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. © Copyright, The East Group, P.A. 2021









**WATER PLAN**  
SCALE: 1/4"=1'-0"

**PLUMBING LEGEND**

- EXISTING SANITARY SEWER LINE
- SANITARY SEWER LINE
- GREASE WASTE LINE
- VENT
- COLD WATER
- EXISTING COLD WATER
- HOT WATER
- RECIRCULATING HOT WATER LOOP
- EXISTING HOT WATER
- VTR VENT THROUGH ROOF
- E.C. ELECTRICAL CONTRACTOR
- M.C. MECHANICAL CONTRACTOR
- G.C. GENERAL CONTRACTOR
- CO CLEAN OUT
- WCO WALL CLEAN OUT
- BALL VALVE
- CHECK VALVE
- UNION
- ELBOW UP
- ELBOW DOWN
- POINT OF NEW CONNECTION TO EXISTING
- HOT WATER RECIRCULATION PUMP
- CIRCUIT SETTER
- WATER HAMMER ARRESTOR (WHA)
- AAV AUTOMATIC AIR ADMITTANCE VALVE
- TMV THERMOSTATIC MIXING VALVE

REV.	DATE	DESCRIPTION	CHK.
A	04.29.22	ISSUE OWNER REVIEW	
B	05.27.22	ISSUED FOR BID	

TED PROJECT NO.

CLIENT PROJECT NO.

PROJECT TITLE  
**Greenville**  
NORTH CAROLINA  
WILDWOOD PARK  
WELCOME CENTER

DRAWING TITLE  
WATER PLAN

DRAWING NO.  
**P1.2**



FAN SCHEDULE									
SYMBOL	MANUF./MODEL	SERVICE	TYPE ASSEMBLY	CFM	SP (IN. W.G.)	DRIVE TYPE	WATTS	VOLT/PH	REMARKS
EF-1	GREENHECK/SP-A110	EXHAUST	CABINET	100	.125	DIRECT	49	120/1	1,2,5
EF-2	GREENHECK/CSP-A510	EXHAUST	IN-LINE	500	.200	DIRECT	217	120/1	1,2,4
EF-3	GREENHECK/CSP-A110	EXHAUST	IN-LINE	100	.125	DIRECT	49	120/1	1,2,3
EF-4	GREENHECK/SP-A110	EXHAUST	CABINET	100	.125	DIRECT	49	120/1	1,2,5

- BACKDRAFT DAMPER.
- UNIT MOUNTED DISCONNECT SWITCH.
- ROUTE 8" Ø DUCT TO EXTERIOR WALL, PROVIDE WITH WALL CAP.
- ROUTE 10" Ø DUCT TO ROOF CAP.
- ROUTE 6" Ø DUCT TO EXTERIOR WALL, PROVIDE WITH WALL CAP.
- EQUALS BY CARNES, PENN, ILG AND BROAN ARE ACCEPTABLE.

NCBC VENTILATION CALCULATIONS					
OCCUPANCY TYPE	SQ. FT.	O.A. PER SQ. FT.	# OF OCCUPANTS	O.A. PER PERSON	TOTAL O.A. CFM
OFFICE SPACE	165	0.06	1	5	15
STORAGE/WAREHOUSE	269	0.06	-	-	17
TOTAL REQUIRED FOR BUILDING					32
TOTAL PROVIDED FOR BUILDING					50

\*\*NATURAL VENTILATION IS OBTAINED FROM OPERABLE WINDOWS.\*\*

### MECHANICAL GENERAL NOTES:

- 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.
- SYSTEMS INDICATED ON PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL PROVIDE NECESSARY HANGERS, FASTENERS ETC. TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- CONTRACTOR SHALL SEAL ALL DUCTWORK WITH A PAINT ON MASTIC. ALL WALL PENETRATIONS SHALL BE SEALED AIR TIGHT.
- CONTRACTOR SHALL FIELD MEASURE ACTUAL INSTALLED CONDITIONS AND COORDINATE DUCT SIZES PRIOR TO FABRICATION OR INSTALLATION OF EQUIP. & DUCTWORK.
- CONTRACTOR SHALL COORDINATE ALL DUCTWORK, DIFFUSER AND GRILLE LOCATION WITH OTHER CEILING MOUNTED DEVICES SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN.
- CONTRACTOR SHALL INSTALL BALANCING DAMPERS IN EACH BRANCH DUCT TO PROVIDE PROPER AIRFLOW TO EACH ZONE.
- 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.
- ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
- CONTRACTOR SHALL COORDINATE ALL ROOF AND FLOOR PENETRATION LOCATIONS AND SIZES.
- 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.
- 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.
- ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED WITH A MINIMUM OF 2-3/16" 3/4 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.
- MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALUMINUM JACKET PROTECTIVE COVERING FOR ALL REFRIGERANT PIPE INSULATION INSTALLED ON THE BUILDING EXTERIOR.
- PROVIDE AUXILIARY CONDENSATE DRAIN PAN FOR ALL AIR HANDLING UNITS, FAN COIL UNITS, FURNACE WITH COOLING COIL, ETC. CONTRACTOR SHALL PROVIDE AND INSTALL WATER LEVEL FLOAT SWITCH IN AUXILIARY DRAIN PAN. FLOAT SWITCH SHALL SHUT DOWN INDOOR AND ASSOCIATED OUTDOOR UNIT WHEN ACTIVATED. DRAIN PAN OUTLET SHALL BE PIPED TO BUILDING EXTERIOR.
- CONDENSATE PIPE SHALL BE SCHEDULE 40 PVC OR HARD DRAWN COPPER. INSTALL WITH PROPER SLOPE AND NO SAGS. COPPER PIPE SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION. SCHEDULE 40 PVC PIPE SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION.
- ALL DUCTWORK AND PIPING SHALL BE CONCEALED ABOVE CEILINGS, TRUSSES AND SOFFITS EXCEPT IN MECHANICAL ROOMS, UTILITY PLATFORMS AND WHERE NOTED OTHERWISE.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING & CONNECTIONS TO HIS EQUIPMENT. COORD. 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.
- MECHANICAL CONTRACTOR MAY USE ROUND DUCT OF EQUIV. AREA IN LIEU OF RECTANGULAR. COORD. ROUND DUCT SIZES W/ ENGR. USE INSULATED DOUBLE WALLED SPIRAL DUCT WITH PAINT GRIP FINISH WHERE DUCT IS TO BE EXPOSED.
- 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.
- MECHANICAL CONTRACTOR SHALL LABEL ALL EQUIPMENT WITH ENGRAVED PLASTIC LAMINATE, SCREWED TO PIECE OF EQUIPMENT.
- UNIT CONTROLLER OR PROGRAMMABLE THERMOSTAT SHALL HAVE 7 DAY PROGRAMING, TIMED OVER-RIDE AND THE ABILITY TO RUN FANS IN OCCUP. MODE & CYCLE FANS IN UN-OCCUP. MODE.
- MECHANICAL CONTRACTOR SHALL CHANGE UNIT FILTERS AFTER EACH TWO WEEKS OF RUN TIME, AND SHALL LEAVE ONE CHANGE OF FILTERS FOR OWNER TO USE FOR NEXT FILTER CHANGE.
- MECHANICAL CONTRACTOR SHALL NOT ALLOW DUCTWORK TO CONTACT LAY-IN LIGHT FIXTURES. ROUTE ACCORDINGLY.
- PROVIDE HEAT PUMP WITH CONTROLS TO PREVENT HEAT STRIP FROM OPERATING WHEN OUTSIDE AIR TEMP. IS ABOVE 40F. (C403.2.4.1.1 NCEC)

MECHANICAL LEGEND	
G.C.	GEN. CONTR.
E.C.	ELEC. CONTR.
P.C.	PLUMB. CONTR.
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
	WRAPPED RIGID DUCT
	INSULATED FLEXIBLE DUCT
	SUPPLY DIFFUSER
	RETURN AIR GRILLE
	CEILING EXHAUST GRILLE OR FAN
	THERMOSTAT & UNIT SERVED.
A-400	DIFFUSER TYPE-CFM
	MANUAL DAMPER
	DUCT MOUNTED SMOKE DETECTOR
	FIRE ALARM HORN/STROBE (SEE GENERAL NOTES)
	CONN. TO EXIST.
	GAS PIPING
	SPRING LOADED FIRE DAMPER
	CO2 SENSOR (800 PPM) & UNIT SERVED.
	TWIST TIMER SWITCH
	120V MOTORIZED DAMPER

### 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: 50.4 MBH

BUILDING COOLING LOAD: 72.0 MBH

MECHANICAL SPACE CONDITIONING SYSTEM

UNITARY

DESCRIPTION OF UNIT: DUCTLESS SPLIT-SYSTEM HEAT PUMP

HEATING EFFICIENCY: 3.0 COP

COOLING EFFICIENCY: 19.0 SEER

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:

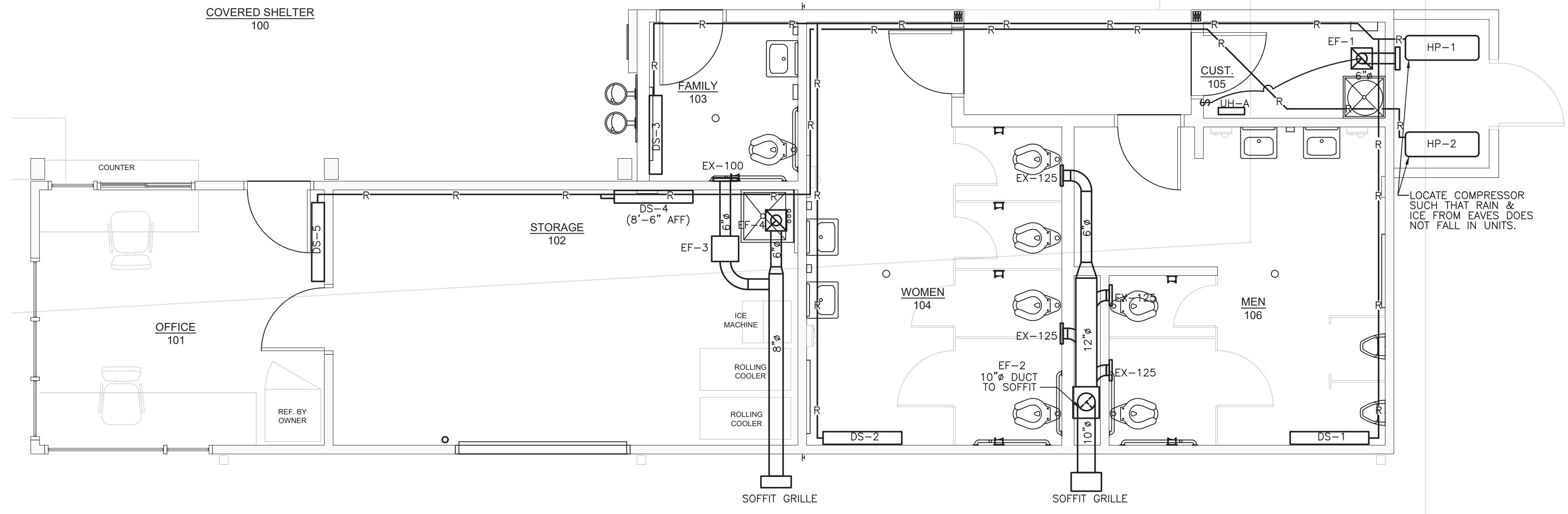
DESIGNER STATEMENT:

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

SIGNED: *D. Wilson Pou*

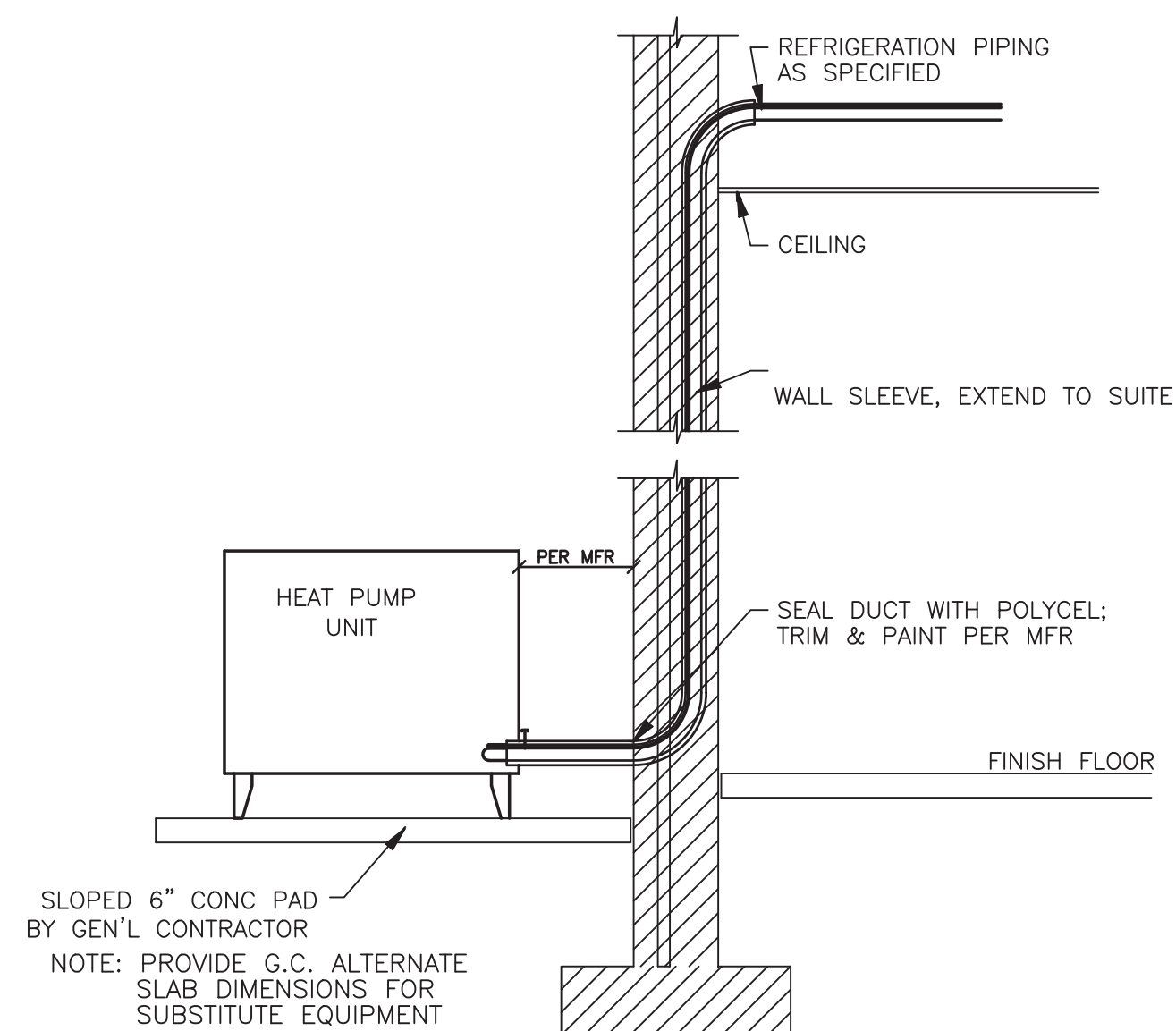
NAME: D. Wilson Pou, P.E.

TITLE: Owner/Engineer



### MECHANICAL PLAN

SCALE: 1/4"=1'-0"



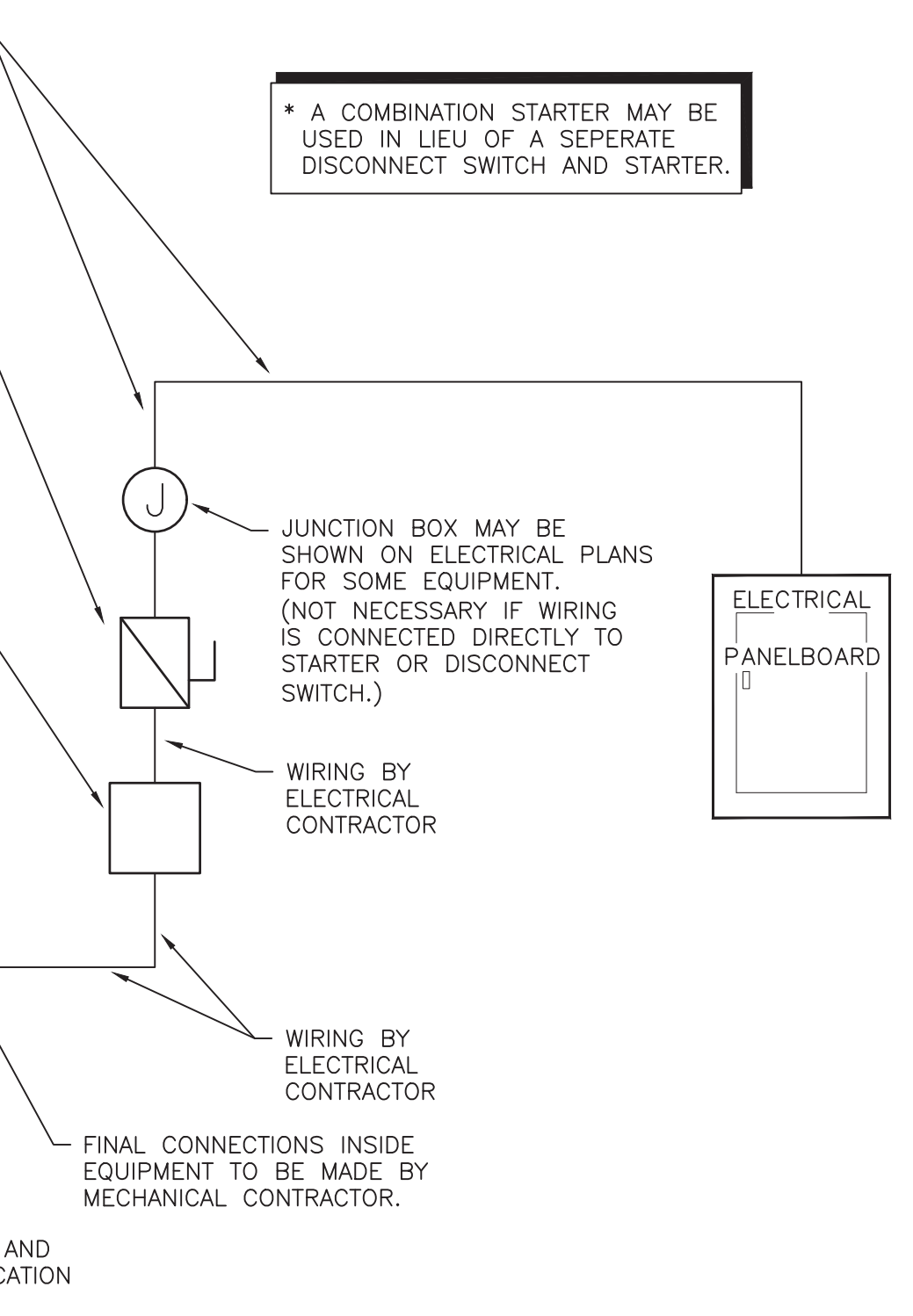
### HEAT PUMP INSTALLATION DETAIL

SCALE: NTS

BRANCH CIRCUIT AND CONDUIT BY ELECTRICAL CONTRACTOR. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES TO HVAC EQUIPMENT. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY WIRE AND BREAKER SIZE CHANGES WITH ELECTRICAL CONTRACTOR.

EXTERNALLY OR INTERNALLY MOUNTED DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE FUSES, AS REQUIRED.

EXTERNALLY MOUNTED STARTER FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. LINE AND LOAD SIDE CONNECTIONS BY ELECTRICAL CONTRACTOR. CONTROLS CONNECTIONS BY OTHERS. \*



### MECHANICAL EQUIPMENT ELECTRICAL CONNECTION DETAIL

SCALE: N.T.S.

AIR DISTRIBUTION						
MARK	MAX. CFM	FRAME	NECK SIZE	MODEL	MANUF.	REMARKS
EX	150	SIDEWALL	14X4	535	PRICE	1,2

- MAX. SP RETURN - 0.05" W.G.
- NC SHALL NOT EXCEED NC 25.

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

- PROVIDE WITH UNIT MOUNTED THERMOSTAT & UNIVERSAL WALL MOUNT BRACKET
- PROVIDE WITH UNIT MOUNTED CIRCUIT BREAKER

**THE EAST GROUP**  
 ■ Engineering ■ Architecture  
 ■ Surveying ■ Technology  
 Corporate Office  
 924 Evans Street  
 Greenville, NC 27858  
 Tel 252.758.3746  
 Fax 252.830.3954  
 Branch Office  
 4325 Lake Boone Trail, Suite 311  
 Raleigh, NC 27607  
 Tel 919.784.6330  
 Fax 919.784.6331  
 NC Engineering License No. C-0206  
 NC Architectural License No. 50213  
 NC Landscape Architectural License No. C-427

**ENGINEERING**  
 S O U R C E S O F N C P A  
 102-42 RENOXY HALL  
 Greenville, NC 27834  
 E-Mail Address: genn@theeastgroup.com  
 Phone: (252) 48-0333  
 Fax: (252) 48-0346  
 ES Project No: ES22023

DESCRIPTION: ASK OWNER REVIEW ISSUED FOR BID

REV	DATE	BY
A	04.29.22	
B	05.27.22	

CLIENT PROJECT NO:  
 PROJECT TITLE:  
**Greenville NORTH CAROLINA**  
 WILDWOOD PARK WELCOME CENTER  
 DRAWING TITLE:  
**MECHANICAL PLAN**

DRAWING NO:  
**M1.1**

This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. (C Copyright, The East Group, P.A. 2021)





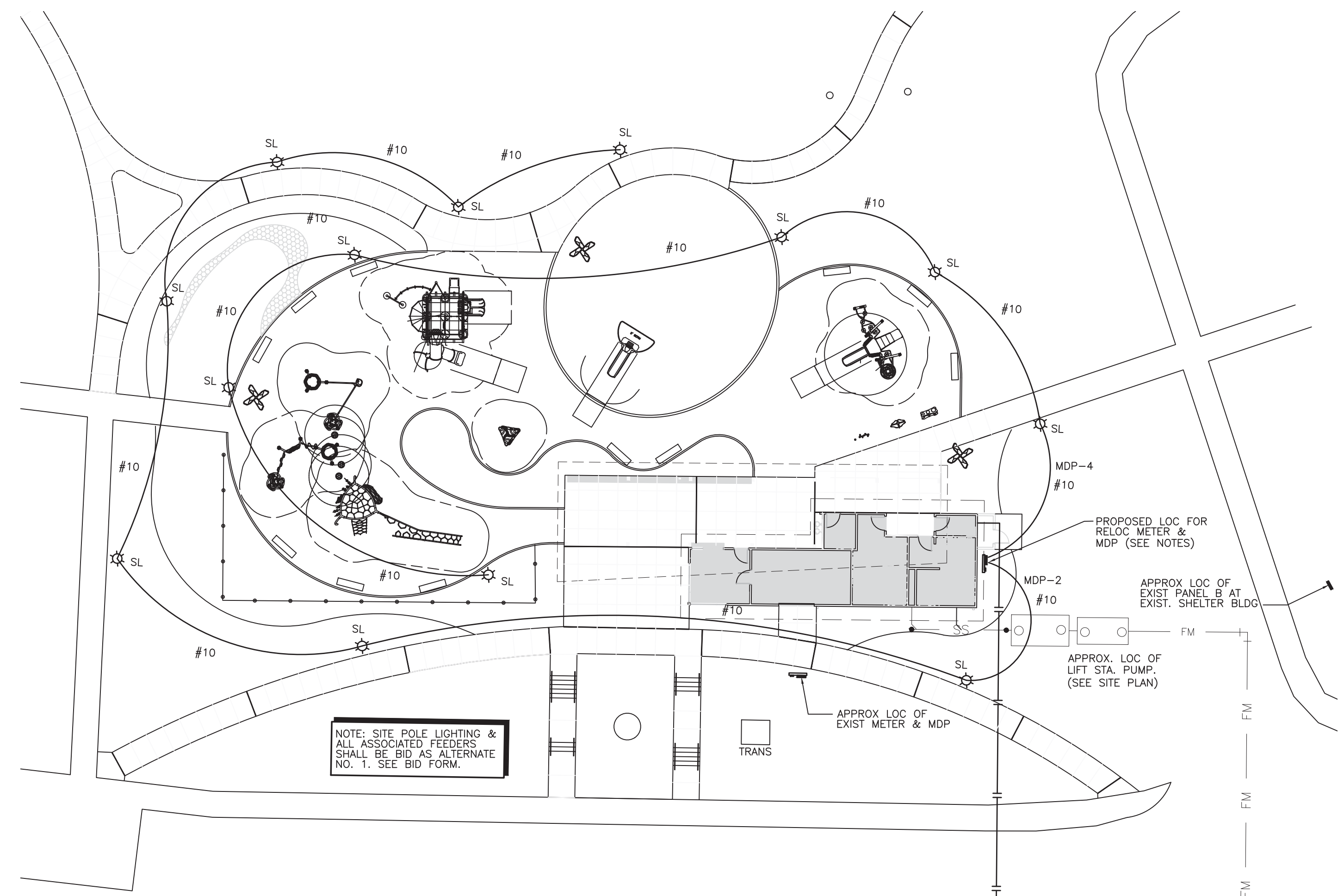




PANELBOARD SCHEDULE - "MDP" (EXISTING)																			
MAIN: 400A MCB		VOLTAGE: 208/120		PHASE: 3		WIRE: 4		MOUNTING: SURFACE		AIC: 22K		NOTES: EXISTING SIEMENS TYPE P1							
CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA)				LOAD (KVA)				COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #	
						LTG	REC	A/C	HTG	HTG	HTG	HTG	HTG						
1	20	1	12	3/4"	RECEPT													2	
3	20	1	12	3/4"	LIGHTS	1.0												4	
5	20	1	12	3/4"	SPARE													6	
7	20	1	12	3/4"	SPARE													8	
9	45	2	6	1"	208V-50A RECEPT	3.5												10	
11																		12	
13	20	1	12	3/4"	SPARE													14	
15	20	1	12	3/4"	SPARE													16	
17	20	1	12	3/4"	SPARE													18	
19	20	1	12	3/4"	SPARE													20	
21					SPACE													22	
23					SPACE													24	
25					SPACE													26	
27					SPACE													28	
29					SPACE													30	
31					SPACE													32	
33					SPACE													34	
35					SPACE													36	
37	200	3	3/0	2"	SUB-FEED FOR PNL "B"	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0					38	
39						0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0					40	
41						1.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0					42	
LIGHTING (KVA):						3.7												72.1	
RECEPTACLES (KVA):						39.1												58.5	
MOTORS (KVA):						0.5													
A/C (KVA):						11.2												200.1	
HEATING (KVA):						4.5												162.3	
KITCHEN (KVA):						0.0													
MISCELLANEOUS (KVA):						13.1													
NOTES:																			

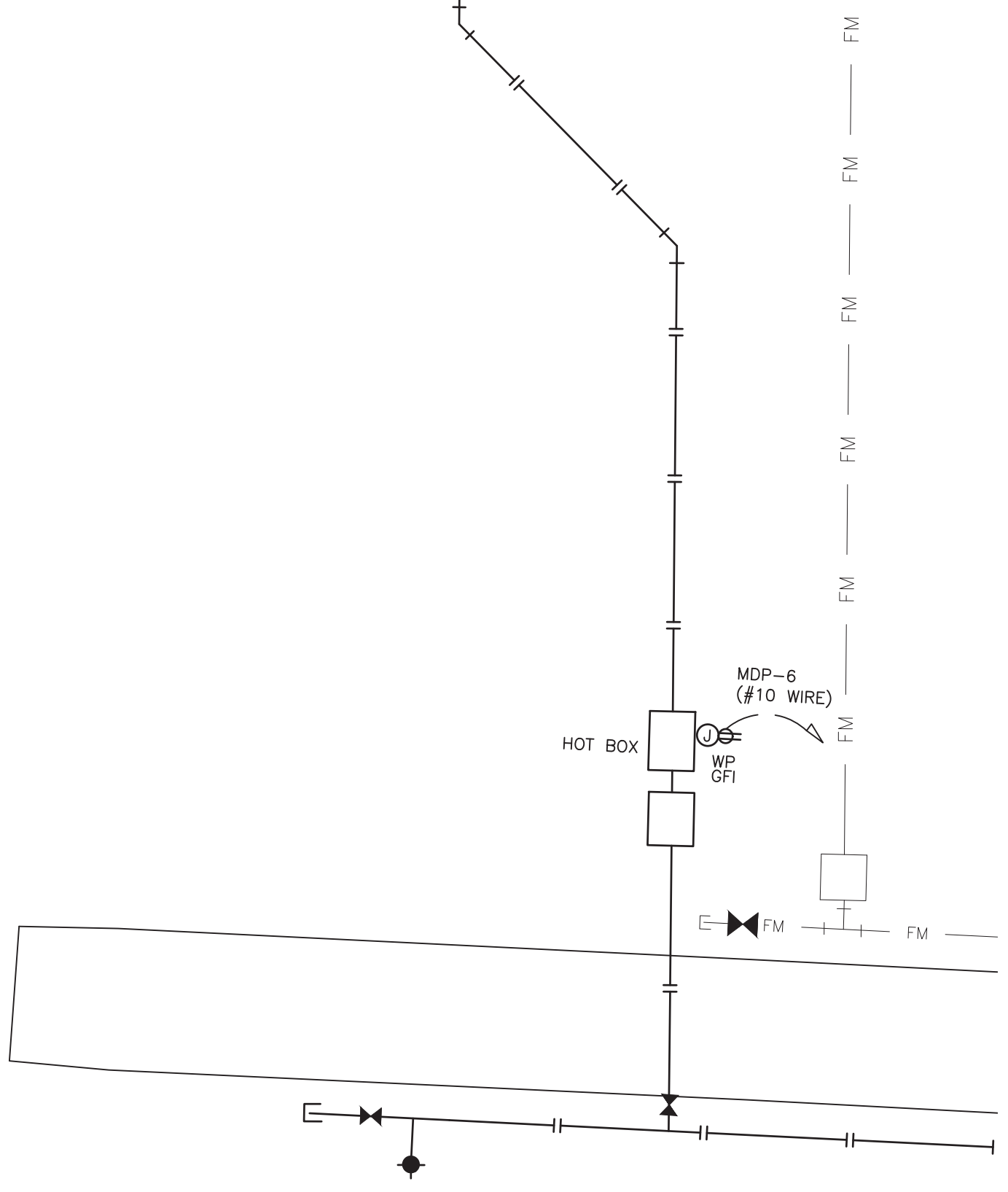
MDP DEMAND CALCS		
LIGHTING	3.68	KVA X 125 % = 4.6 KVA
RECEPTACLES TOTAL	39.10	KVA
1ST	10.00	KVA X 100 % = 10.0 KVA
REMAIN	29.10	KVA X 50 % = 14.6 KVA
MOTORS	0.50	KVA X 100 % = 0.5 KVA
A/C	11.23	KVA X 100 % = 11.2 KVA
HEATING	4.50	KVA X 100 % = 4.5 KVA
FUTURE	___	KVA X 100 % = 0.0 KVA
KITCHEN	0.00	KVA X 65 % = 0.0 KVA
MISCELLANEOUS	13.10	KVA X 100 % = 13.1 KVA
<b>TOTAL</b>	<b>=</b>	<b>162.3 amps = 58.5 KVA</b>

B DEMAND CALCS		
LIGHTING	1.00	KVA X 125 % = 1.3 KVA
RECEPTACLES TOTAL	20.20	KVA
1ST	10.00	KVA X 100 % = 10.0 KVA
REMAIN	10.20	KVA X 50 % = 5.1 KVA
MOTORS	0.00	KVA X 100 % = 0.0 KVA
A/C	0.00	KVA X 100 % = 0.0 KVA
HEATING	0.00	KVA X 100 % = 0.0 KVA
FUTURE	___	KVA X 100 % = 0.0 KVA
KITCHEN	0.00	KVA X 65 % = 0.0 KVA
MISCELLANEOUS	0.00	KVA X 100 % = 0.0 KVA
<b>TOTAL</b>	<b>=</b>	<b>45.4 amps = 16.4 KVA</b>



- ELECTRICAL SERVICE RELOCATION NOTES:**
- ELECTRICAL CONTRACTOR SHALL RELOCATE THE EXISTING 400A MDP, METER, ASSOCIATED EXISTING DEVICES AND RACK TO NEW LOCATION INDICATED.
  - RELOCATION MUST HAPPEN PRIOR TO START OF CONSTRUCTION OF THE WELCOME CENTER.
  - PULL NEW COPPER FEEDER (2 SETS OF 4-#3/0) FROM NEW LOCATION BACK TO EXISTING TRANSFORMER. COORD ALL WORK WITH GUC.
  - REUSE EXISTING CONDUCTORS SERVING PANEL "B" TO RECONNECT "B" BACK TO MDP IN ITS NEW LOCATION VIA A NEW PVC CONDUIT RACEWAY.
  - OTHER THAN A BRIEF SHUTDOWN DURING RELOCATION OF THE SERVICE PANEL "B" MUST STAY OPERATIONAL DURING CONSTRUCTION OF WELCOME CENTER.
  - EXISTING MDP SHALL FEED ANY NEW EXTERIOR CIRCUITS (SITE LIGHTING, HOTBOX, SEWER PUMP, ETC.) UTILIZE EXISTING 1P-20A SPARES WHERE POSSIBLE OR ADD NEW BREAKERS IF REQUIRED. EXISTING PANEL IS A SIEMENS TYPE P1 PANEL.

PANELBOARD SCHEDULE - "B" (EXISTING)																			
MAIN: 200A MCB		VOLTAGE: 208/120		PHASE: 3		WIRE: 4		MOUNTING: SURFACE		AIC: 22K		NOTES: EXIST SIEMENS TYPE P1							
CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA)				LOAD (KVA)				COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #	
						LTG	REC	A/C	HTG	HTG	HTG	HTG	HTG						
1	20	1	12	3/4"	SHELTER RECEPT													2	
3	20	1	12	3/4"	SHELTER RECEPT	0.7												4	
5	20	1	12	3/4"	SHELTER LIGHTS	1.0												6	
7	20	1	12	3/4"	SPARE													8	
9	50	2	6	1"	208V-50A RECEPT	4.0												10	
11																		12	
13	20	1	12	3/4"	SPARE													14	
15	20	1	12	3/4"	SPARE													16	
17	20	1	12	3/4"	SPARE													18	
19	20	1	12	3/4"	SPARE													20	
21	20	1	12	3/4"	SPARE													22	
23	20	1	12	3/4"	SPARE													24	
25					SPACE													26	
27					SPACE													28	
29					SPACE													30	
31					SPACE													32	
33					SPACE													34	
35					SPACE													36	
37					SPACE													38	
39					SPACE													40	
41					SPACE													42	
LIGHTING (KVA):						1.0												21.2	
RECEPTACLES (KVA):						20.2												16.4	
MOTORS (KVA):						0.0													
A/C (KVA):						0.0												58.8	
HEATING (KVA):						0.0												45.4	
KITCHEN (KVA):						0.0													
MISCELLANEOUS (KVA):						0.0													
NOTES:																			



**ELECTRICAL SITE PLAN**  
SCALE: 1"=20'-0"

This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. © Copyright, The East Group, P.A. 2021



REV	DATE	DESCRIPTION
A	04.29.22	ISSUED FOR BID
B	05.27.22	ISSUED FOR BID

PROJECT NO. \_\_\_\_\_

CLIENT PROJECT NO. \_\_\_\_\_

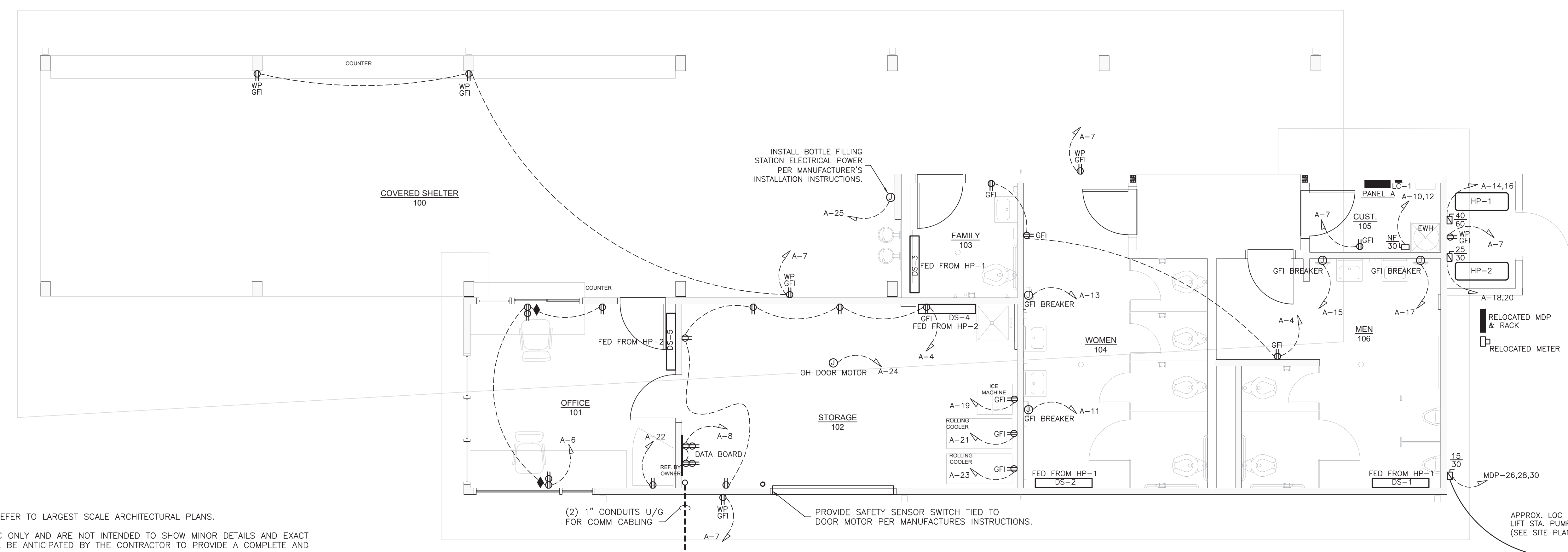
PROJECT TITLE

**Greenville**  
NORTH CAROLINA  
WILDWOOD PARK  
WELCOME CENTER

DRAWING TITLE  
**POWER PLAN**

DRAWING NO.

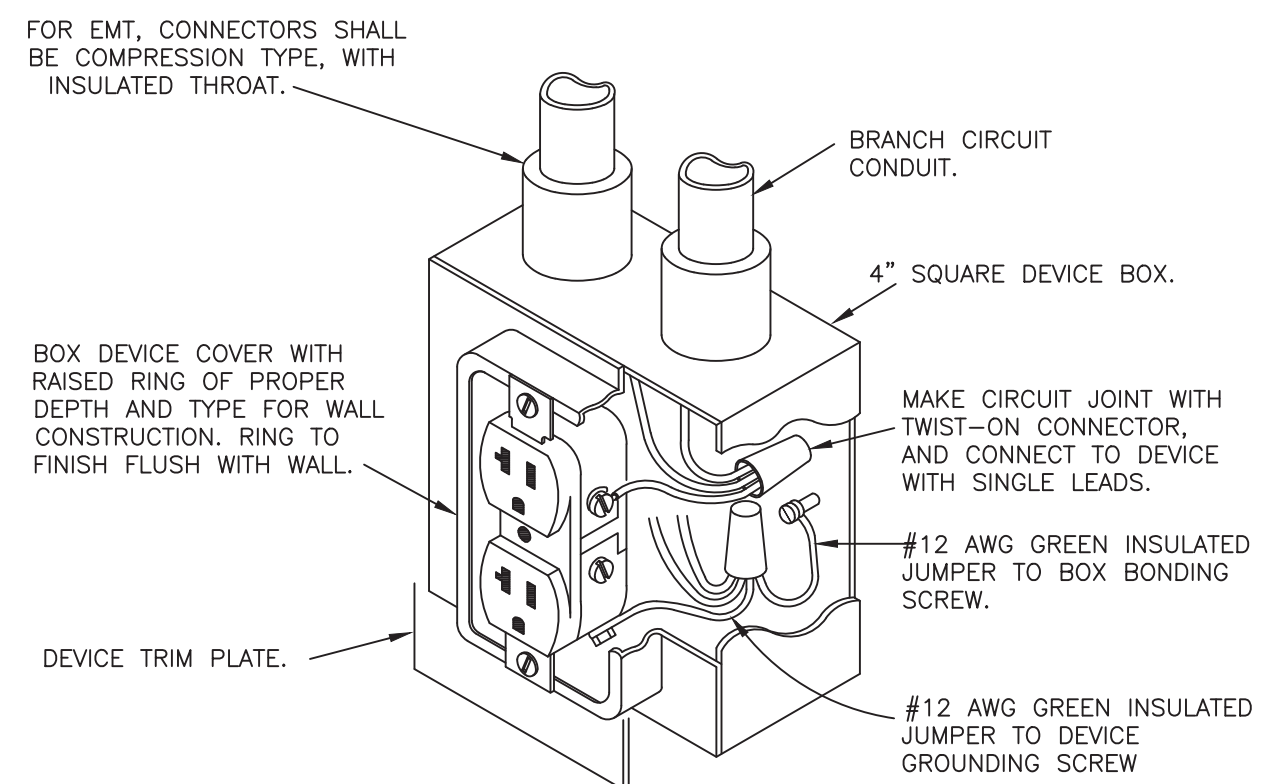
**E1.1**



**ELECTRICAL NOTES:**

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

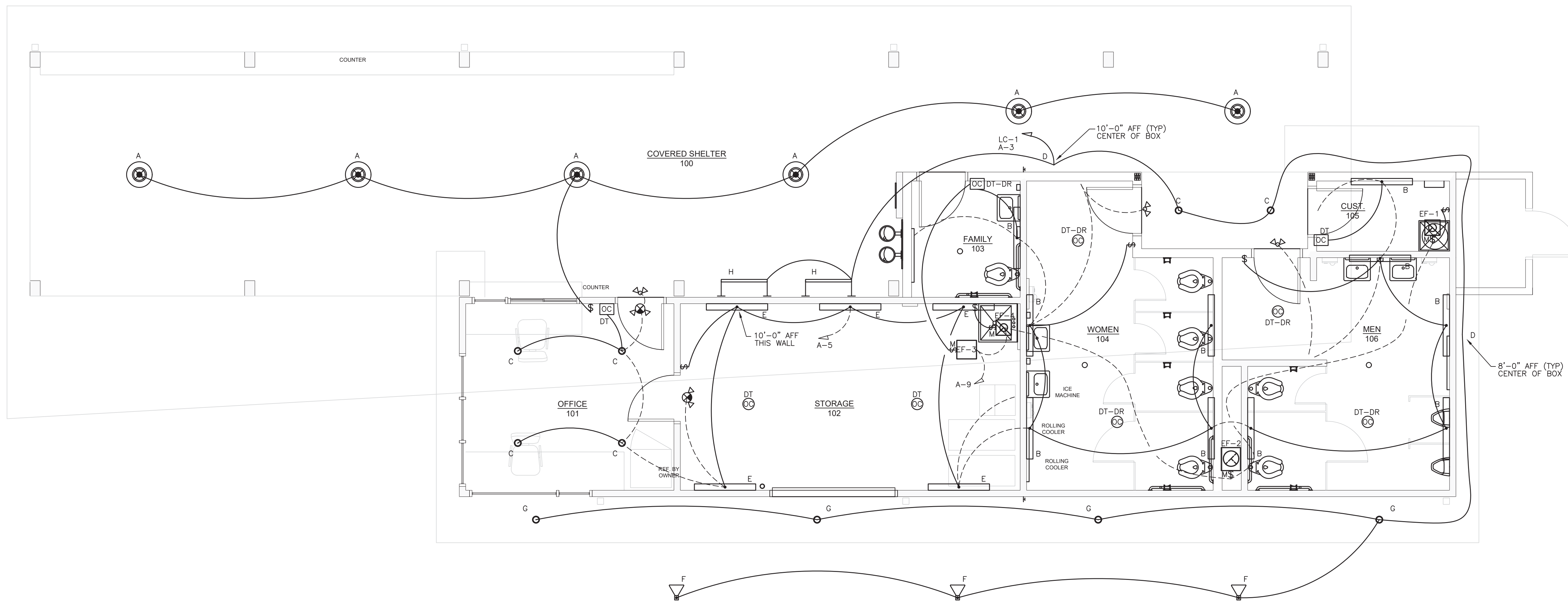
**POWER PLAN**  
SCALE: 1/4"=1'-0"



**TYPICAL DUPLEX RECEPTACLE INSTALLATION**  
SCALE: NONE

This drawing is the property of The East Group, P.A. any use, reuse, reproduction, display or sale of this drawing without written consent of The East Group, P.A. is strictly prohibited. © Copyright, The East Group, P.A. 2021

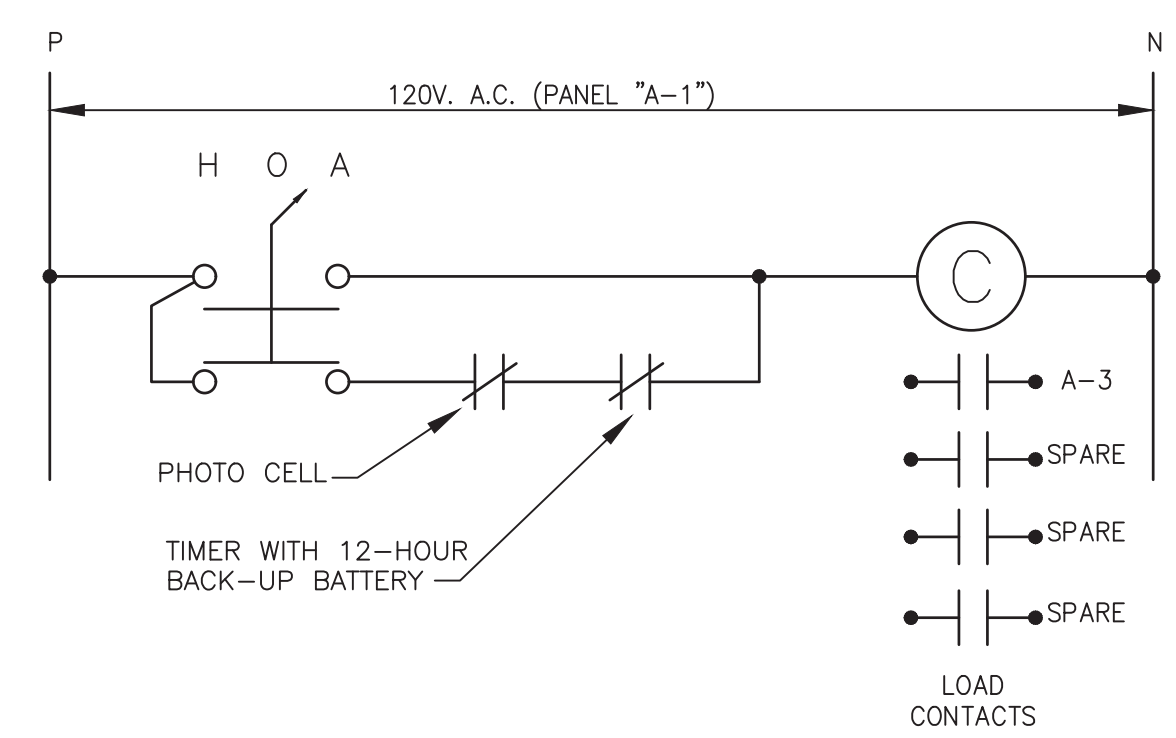




**LIGHTING PLAN**

SCALE: 1/4"=1'-0"

EXHAUST FAN EF-2 SERVING WOMENS 104 & MENS 106 SHALL BE CONTROLLED FROM DUAL RELAY ON OCCUPANCY SENSOR SO THAT FAN IS TURNED ON WHEN ENTERING EITHER RESTROOM.

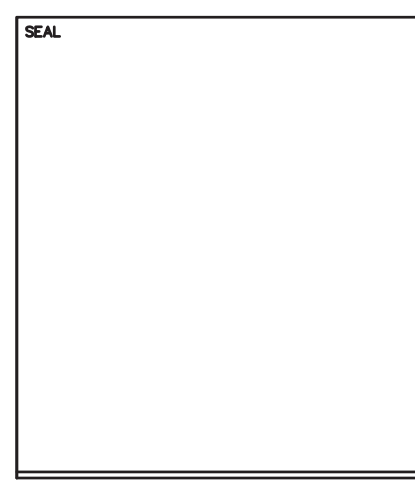
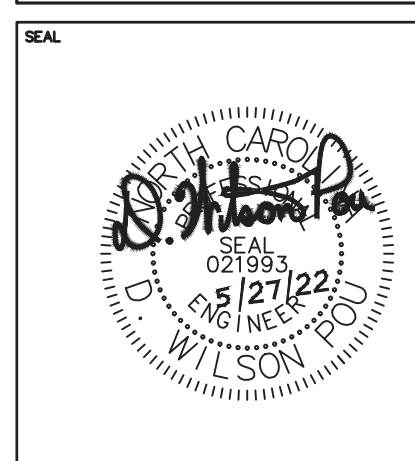


**LIGHTING CONTACTOR DETAIL**

SCALE: NTS

**LIGHT FIXTURE SCHEDULE**

TYPE	DESCRIPTION	LAMPS	VOLTS	WATTS	B.F.
A	DECORATIVE EXTERIOR LED PENDANT MOUNTED FIXTURE MODERN FORMS - PD-W1915BZ OR EQUAL	LED	120	12	-
B	4' WALL MOUNTED DIRECT WITH CLOSED TOP LED LIGHT FIXTURE WILLIAMS - WMA-4-L40-8-40-AF-CT-DRV-UNV OR EQUAL	LED	120	35	-
C	4.5" DOWN LIGHT FIXTURE WITH SLOPE CEILING ADAPTER. WILLIAMS - 4DR-TL-L40-8-4-SCA-DIM-UNV-L-W-CS OR EQUAL	LED	120	38	-
D	DECORATIVE EXTERIOR LED WALL PACK WAC LIGHTING - WP-LED119-50-ABZ	LED	120	19	-
E	4' SURFACE MOUNTED STRIP LED FIXTURE WITH LENS WILLIAMS - 75R-4-L50-8-40-DRV-UNV OR EQUAL	LED	120	45	-
F	GROUND MTD LED FLOOD LIGHT. COLOR BY ARCH. PROVIDE WILLIAMS - VF2-L70-740-MF-SR-CBA-UNV OR EQUAL	LED	120	65	-
G	6" RECESSED LED SOFFIT LIGHT, DAMP LOCATION RATED & 40K COLOR TEMP. PROVIDE WILLIAMS 6DR-L20-840-OW-UNV OR EQUAL	LED	120	18	-
H	WALL MOUNTED LED WALL ACCENT LIGHT, DAMP LOCATION AND 40K COLOR TEMP. PROVIDE LUMENPULSE LOGRO-120-36-40K-WW-WAM12-NO-CRC OR EQUAL	LED	120	28	-
SL	POLE MOUNTED SITE LIGHT. PROVIDE LUMINUS #MA20-L1W30R1-R2-UNV-PA416 OR EQUAL	LED	120	34	-
	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
	CEILING OR WALL MOUNTED EDGE LIT DECORATIVE LED EXIT LIGHT CONFORMING TO NFPA 101 STANDARDS, w/ BATTERY & SOLID STATE CHARGER, SELF DIAGNOSTICS w/ A TEST CYCLE EVERY 30 DAYS MINIMUM, SELF-CONTAINED, DOUBLE OR SINGLE WHITE FACE/BODY, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS, TEST SWITCH, & 120 MIN. EMERGENCY RUN TIME; EXIT SIGN SHALL HAVE 5 YEAR WARRANTY. PROVIDE SURELIGHTS #: EUS-70-G OR EQUAL	RED LED	120/6V	2	N/A
	DECORATIVE EMERGENCY WALL PACK SURELIGHTS - AEL2-46-WH-SD	2-5.4W LED	120/6V	12	N/A



REV	DATE	DESCRIPTION
A	04.29.22	ISSUE OWNER REVIEW
B	05.27.22	ISSUED FOR BID

PROJECT NO. \_\_\_\_\_

CLIENT PROJECT NO. \_\_\_\_\_

PROJECT TITLE  
**Greenville NORTH CAROLINA**

WILDWOOD PARK WELCOME CENTER

DRAWING TITLE  
**LIGHTING PLAN**

DRAWING NO.  
**E1.2**