# LEXINGTON PLANTATION POOL

# HARNETT COUNTY, NORTH CAROLINA

PARCEL DATA
OWNER/DEVELOPER:

VOLA, LLC PO BOX 1328 CARY, NC 27512

RA-20R

SETBACKS:

30' - FRONT SETBACK· IF STREET R/W IS 60' OR MORE 35' - FRONT SETBACK - IF STREET R/W IS LESS THAN 60' 25' - REAR SETBACK

20' - CORNER SETBACK 10' /5' SIDE SETBACK

9594-09-9184

### DEED REFERENCE: BOOK 2948, PAGE 429

FLOOD PLAIN INFO:

MAP NUMBER: 3710958400J EFFECTIVE DATE: OCT 3, 2006

PARCEL AREA: 3.61 ACRES LAND USE CLASS: COMPACT MIXED USE/LDR

PARKING: 44 STANDARD & 4 HANDICAP = 48 TOTAL SWIMMING: 1/15 sf OF POOL, 1200SF - 80 SWIMMERS MAX EST. WATER/SEWER USAGE: 10 GAL/DAY/SWIMMER - 800 GAL/DAY

- PARKING AREAS, DRIVE AISLES, ACCESS ROADS WILL HAVE AN
- ASPHALT OR CONCRETE SURFACE. PARKING AREAS AND DRIVE AISLES ARE REQUIRED TO BE
- SCREENED/LANDSCAPED. PROPOSED DISTURBED AREA IS UNDER ONE ACRE - NO EROSION CONTROL PLAN IS REQUIRED PER NCDEQ
- PROPERTY OWNER IS TO BE RESPONSIBLE FOR MAINTAINING PARKING AREAS, LANDSCAPING AND ALL OTHER SITE
- THIS DEVELOPMENT IS WITHIN THE FIVE MILE MILITARY CORRIDOR OVERLAY ZONE, AND MAY BE SUBJECT TO MILITARY TRAINING
- OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE
- PARKING AREAS, DRIVE AISLES, AND ALL LANDSCAPE BUFFERING. LANDSCAPE BUFFERING SHALL BE IN ACCORDANCE WITH THE HARNETT COUNTY ZONING ORDINANCE.
- PROJECT WILL BE SERVED BY HRW FOR WATER AND SEWER.
- THE WATER AND SEWER TAPS WILL BE INSTALLED BY PRIVATE
- PROPERTY IS NOT IN A WATERSHED DISTRICT.

# BUFFER REQUIREMENTS

ALL BUFFER TYPES SHALL INCLUDE:

- 1. A STAGGERED ROW OF LARGE MATURING TREES SPACED NOT MORE THAN 30 FEET APART; AND
- 2. LOW GROWING EVERGREEN SHRUBS, EVERGREEN GROUND COVER, OR MULCH COVERING THE BALANCE OF THE BUFFER AREA.

# TYPE "A"· (MINIMUM WIDTH OF 15 FEET)

OPTION 1: A ROW OF EVERGREEN SHRUBS PLACED NOT MORE THAN FOUR(4) TO SIX(6) FEET APART WHICH WILL GROW TO FORM A CONTINUOUS HEDGE OF AT LEAST SIX(6) FEET IN HEIGHT WITHIN TW0(2) YEARS OF PLANTING; OR

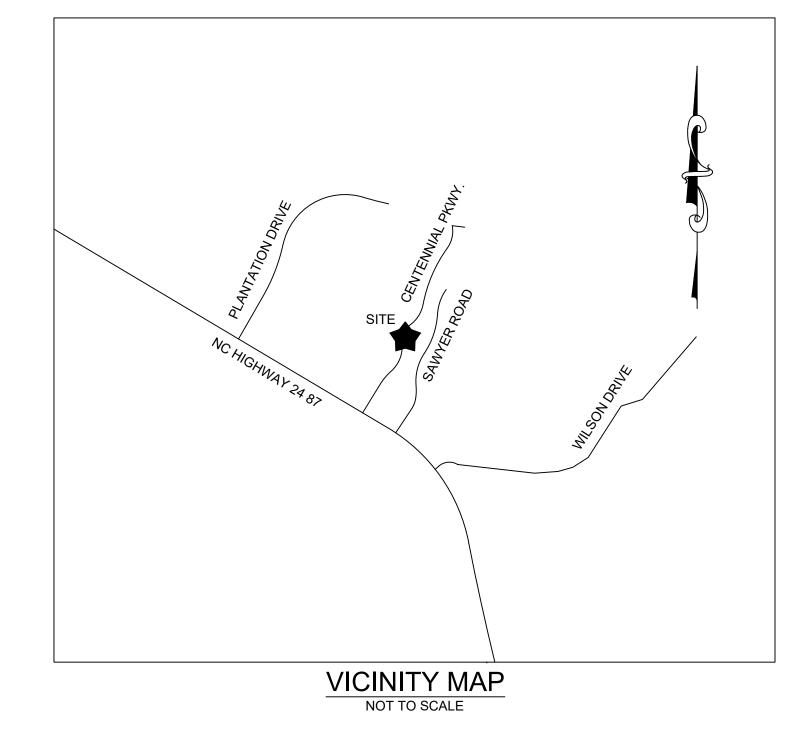
OPTION 2: A MASONRY WALL LOCATED WITHIN THE REQUIRED BUFFER AREA; SUCH WALL SHALL BE A MINIMUM HEIGHT OF SIX(B) FEET (ABOVE FINISHED GRADE); AND, IF A BLOCK WALL, IT SHALL BE PAINTED ON ALL SIDES; OR AN OPAQUE FENCE SIX(6) FEET IT

OPTION 3: A BERM MEETING THE REQUIREMENTS OF HARNETT

# TYPE "D" ·(MINIMUM WIDTH OF 15 FEET)

OPTION 1: A ROW OF EVERGREEN SHRUBS, 10 SHRUBS FOR EVERY REQUIRED LARGE MATURING TREE, PLACED NOT MORE FOUR(4) FEET APART WHICH WILL ROW TO FORM A CONTINUOUS HEDGE OF AT LEAST SIX (6) FEET IN HEIGHT WITHIN TWO(2) YEARS OF PLANTING; OR

OPTION 2: AN OPAQUE FENCE LOCATED WITHIN THE REQUIRED BUFFER AREA; SUCH FENCE SHALL. BE A MINIMUM HEIGHT IF SIX(B) FEET IN HEIGHT.



Sheet List Table					
Sheet Number	Sheet Title				
C1.0	COVER				
C2.0	GENERAL NOTES				
C2.1	ESC NOTES				
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C3.0	EXISTING CONDITIONS, DEMO, & ESC PLAN				
C4.0	SITE & UTILITY PLAN				
C5.0	GRADING PLAN				
C6.0	ESC & SITE DETAILS				
C7.0	HRW DETAILS				

DRAPER ADEN ASSOCIATES REVIEW THESE PLANS HAVE BEEN SUBJECTED TO TECHNICAL AND QUALITY REVIEWS BY:

NAME:		01.??.2022	
PROJECT DESIGNER	SIGNATURE	DATE	
NAME:		01.??.2022	
PROJECT MANAGER	SIGNATURE	DATE	
NAME:		01.??.2022	
QUALITY REVIEWER	SIGNATURE	DATE	





AS THE OWNER OF RECORD, I HEREBY FORMALLY CONSENT TO THE PROPOSED DEVELOPMENT SHOWN ON THIS SITE PLAN AND ALL REGULATIONS AND REQUIREMENTS OF THE HARNETT COUNTY ORDINANCES

OWNER SIGNATURE



ssociates

den

Draper

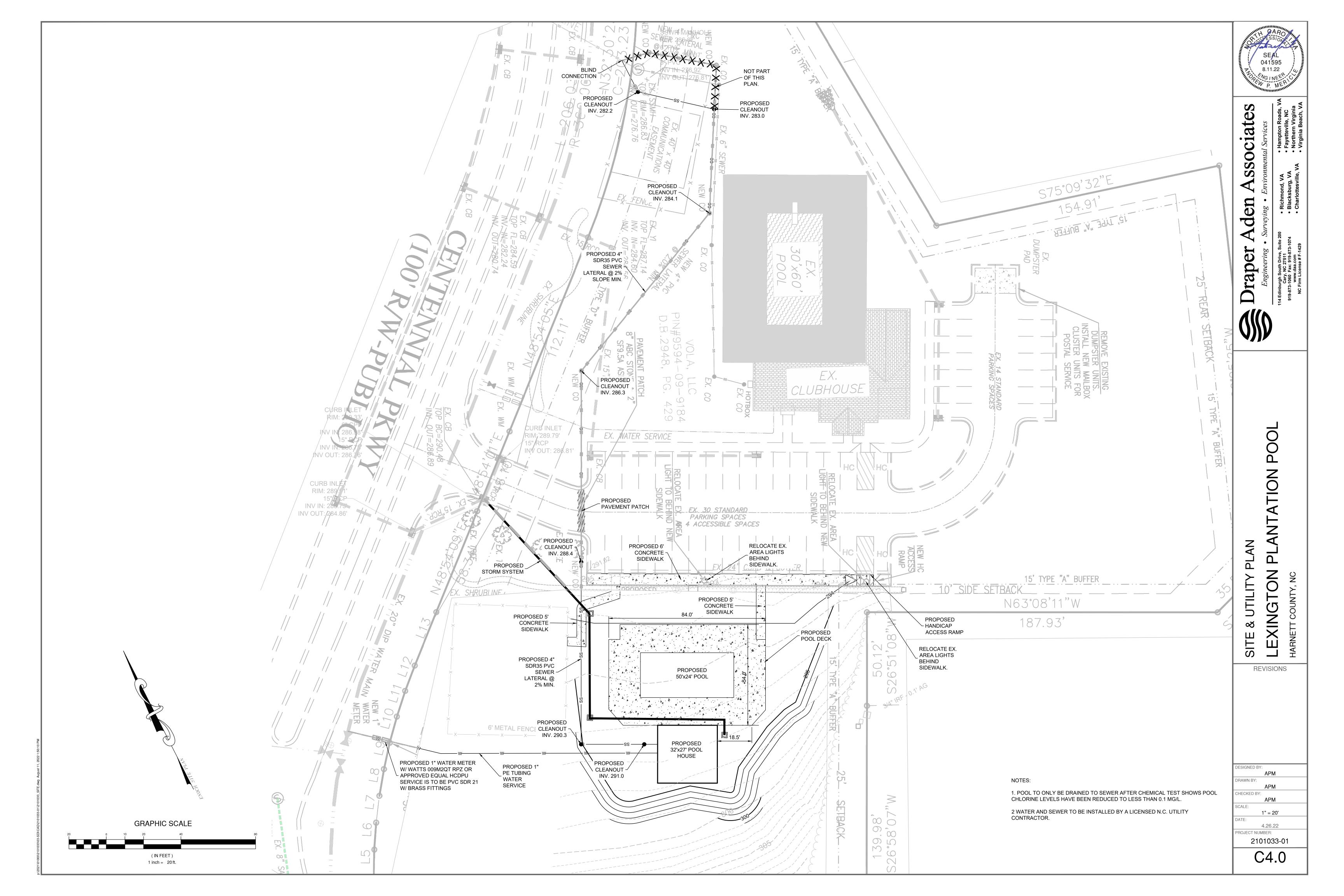
 $\triangleleft$ COVER

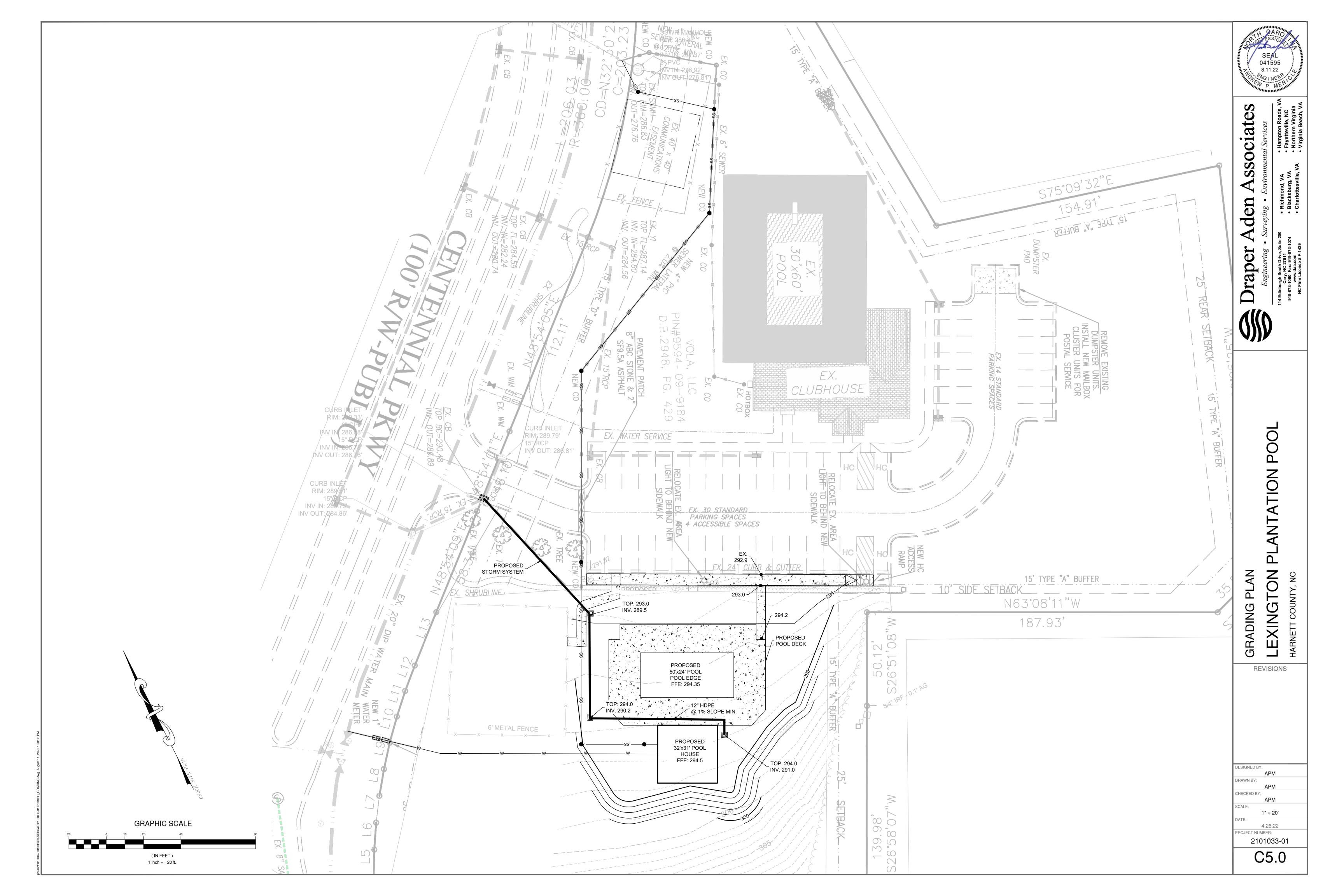
REVISIONS

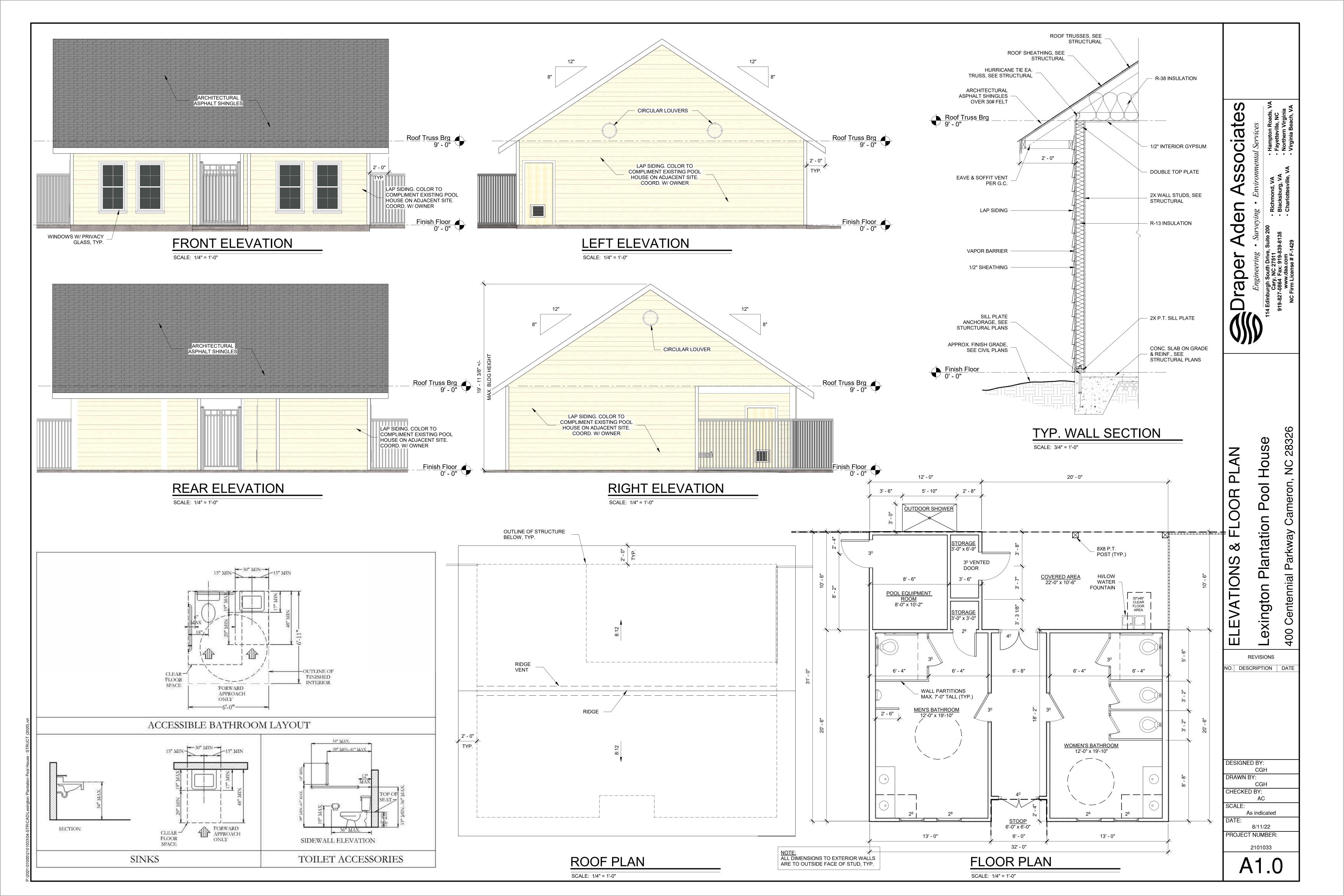
DESIGNED BY: DRAWN BY: CHECKED BY: SCALE: 4.26.22 PROJECT NUMBER:

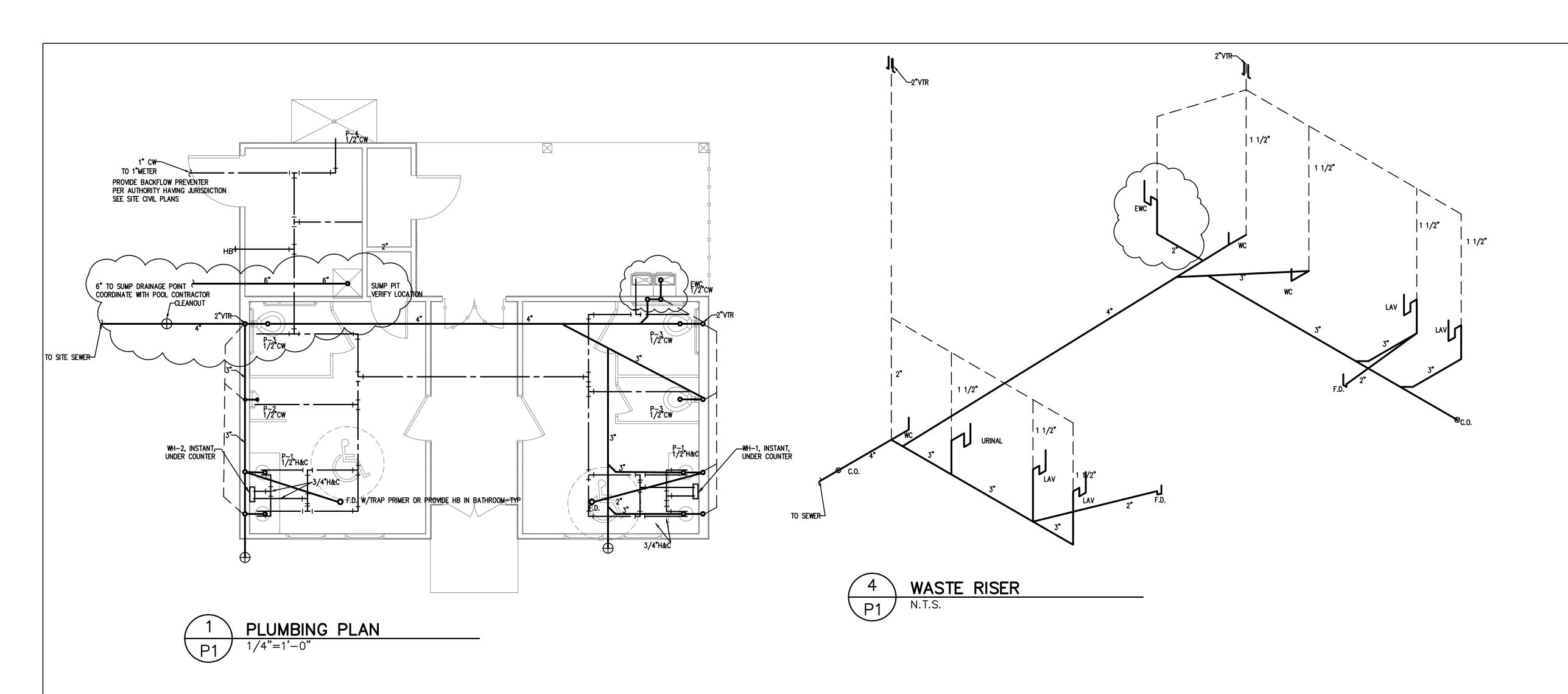
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2101033-01









ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.

ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE)
AND ABOVE GRADE TYPE "L" COPPER SUPPORTED AS REQUIRED AND SHALL BE
HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSI. ALL WATER PIPING AT WATER FIXTURES SHALL BE PROVIDED WITH 18" AIR CHAMBERS OR SHOCK ABSORBERS. STOPS SHALL BE PROVIDED ON HOT AND COLD WATER LINES. HOT WATER PIPING SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE PVC/PEX MAYBE SUBSTITUED FOR COPPER

SANITARY SEWER LINES SHALL BE PVC.

PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI GAS PIPING WILL BE SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE IRON SCREW-TYPE FITTINGS.

THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS
OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING
CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND ARCHITECTURAL SITE PLANS FOR WORK BY OTHERS.

LOCATION OF UTILITIES (WASTE AND WATER LINES, MANHOLES ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS

ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS

P1.

PLUMBING NOTES

Dec 22, 2021

Engineering

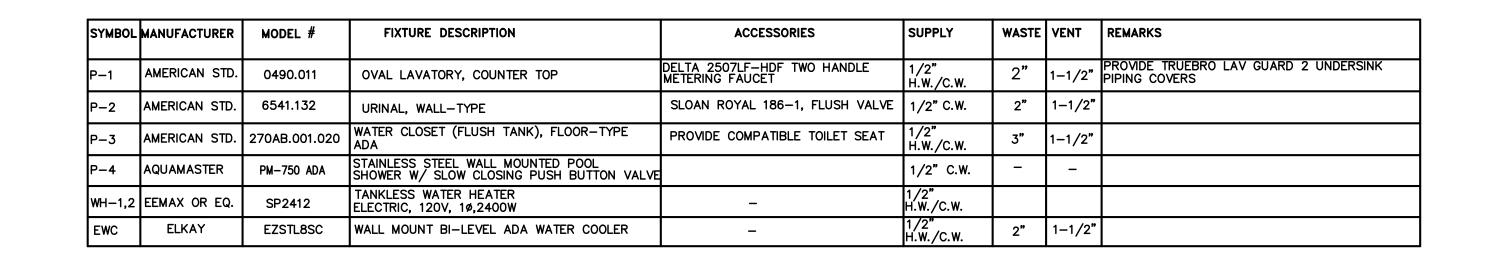
PLANTATION POOL HOUSE

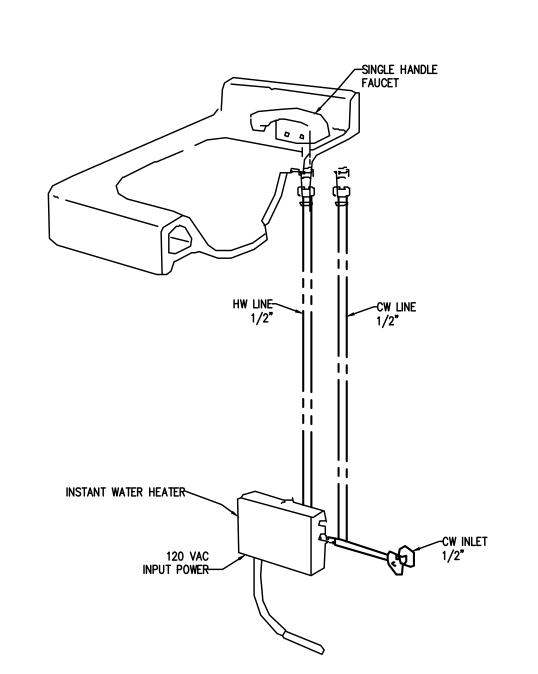
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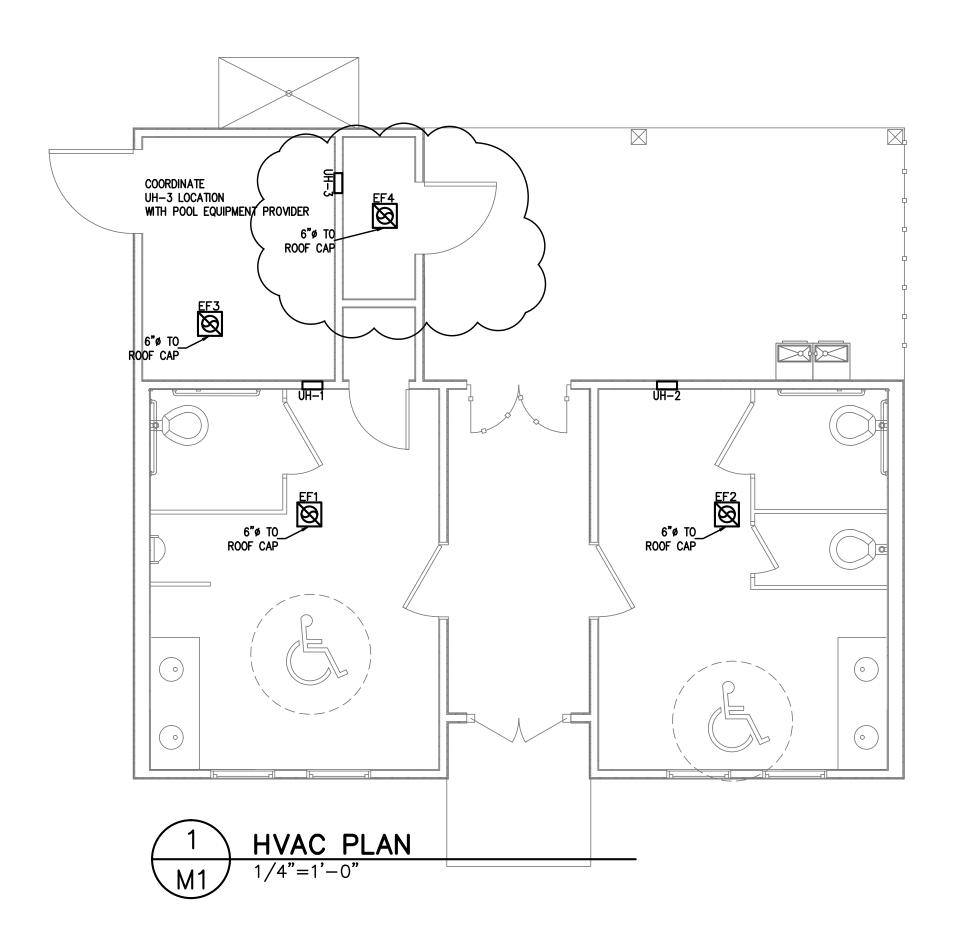
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SHEET NO:





INSTANT WATER HEATER DETAIL



### MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

### MECHANICALSUMMARY

### MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

### Thermal Zone 4A

winter dry bulb:  $18^{\Box}$ F summer dry bulb: 94<sup>□</sup>F

# Interior design conditions

winter dry bulb: \_\_75□F summer dry bulb: 75°F relative humidity: \_\_50%\_

### **Building heating load:** \_\_\_\_N/A\_\_\_ **Building cooling load:**

# **Mechanical Spacing Conditioning System**

Binary

Description of unit: N/Aheating efficiency: cooling efficiency: size category of units: N/A

Description of units: <u>ELECTRIC UNIT HEATERS</u>

heating efficiency: cooling efficiency:

size category of units: N/A

Size category. If oversized, state reason.: Chiller

Size category. If oversized, state reason.:

List equipment efficiencies: 14.0 SEER

SIGNED: \_

NAME: Christopher Locklear

TITLE: Engineer

FAN SCHEDULE											
MAI	₹K	LOCATION	SERVICE	СҒМ	S.P.	WATTS	RPM	VOLT	PHASE	DRIVE	REMARKS
EF:		CEILING	TOILETS	140	0.125"	185	980	120	1	DIRECT	CEILING MOUNTED FAN. PROVIDE W/B.D.D. AND ROOF CAP GREENHECK SPB-150 OR EQ. 6"ø TO ROOF/WALL CAP
EF3	,4	CEILING	POOL EQUIP.	120	.125"	52.5	1100	120	1	DIRECT	CEILING MOUNTED FAN. PROVIDE W/B.D.D. AND ROOF CAP GREENHECK SPA-125 OR EQ. 6"ø TO ROOF/WALL CAP

UNIT HEATER SCHEDULE

**#**12

FLA UNIT UNIT WOCP WIRE SIZE INPUT (DU. 75 C) BTU

UH-1,2,3 12.5 120 1 20

CAPACITIES

5,120

5,120

MFG & MODEL #

TPI CORP 305 SERIES WALL MTD. E3055T2DWB

OUTSIDE AIR CALCULATION -2018 NC MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz

	OCCUPANCY TYPE:	SF (Az)	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXAUST CFM REQUIRED
LECTRIC	POOL EQUIPMENT ROOM	61	0	0	0.12	7.32	81
UNIT	STORAGE/CHEMICALS	30	0	0	0.12	3.6	40
HEATERS	MENS RESTROOM	190	0	0	0	0	140
	WOMEN RESTROOM	190	0	0	0	0	140
	TOTAL CFM REQUIRED					10.92	401
	TOTAL CFM FURNISHED					10.92	401

ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 NC MECHANICAL CODE.

ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA. DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED. ALL SUPPLY AND RETURN DUCTS AND FLEX SHALL BE INSULATED WITH MIN. R-6.0 INSULATION UNLESS OTHERWISE NOTED IN THE DRAWING. ALL EXPOSED ROUND DUCT SHALL BE DOUBLE WALL INSULATED. EXPOSED RECTANGULAR DUCT SHALL BE INTERNALLY LINED WITH INSULATION ALL DUCTS SHALL BE AIR TIGHT, RIGID AND FREE FROM VIBRATION AND NOISE.
ALL LAP JOINTS SHALL BE IN THE DIRECTION OF FLOW. VOLUME OR SPLITTER DAMPERS
SHALL BE INSTALLED WHERE NECESSARY TO GUIDE AND CONTROL THE AIR FLOW.
PROVIDE SHEET METAL SLEEVES AND COLLARS WHERE DUCTS PASS THROUGH WALLS.

STRUCTURAL MEMBERS OF THE BUILDING SHALL NOT BE CUT IN ANY MANNER FOR THE INSTALLATION OF ANY EQUIPMENT UNLESS PRIOR APPROVAL IS OBTAINED FROM THE

MECHANICAL CONTRACTOR TO CONFIRM BREAKER/DISCONNECT SIZES OF HIS EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.

FURNISH AND INSTALL A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN DUCT OF THE A/C UNIT IN ACCORDANCE WITH 2018 NC MECHANICAL CODE. THE DETECTOR SHALL BE WIRED TO SHUT DOWN THE FAN IN THE EVENT THE DETECTOR IS ACTIVATED. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL THE DUCT DETECTOR AND RUN THE NECESSARY CONTROL WIRING FROM THE DETECTOR TO HIS EQUIPMENT. SMOKE DETECTORS ARE ONLY REQUIRED FOR UNITS SUPPLYING 2000 CFM OR MORE.

MECHANICAL CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT SYSTEM COMPLIANCE STATEMENT REQUIRES A WRITTEN T&B REPORT. FINAL PROJECT SIGNOFF WILL BE DENIED WITHOUT THIS REPORT

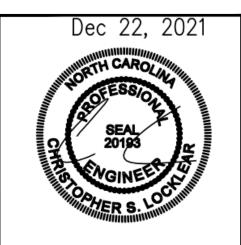
MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK WITH OTHER TRADES TO AVOID CONFLICTS.

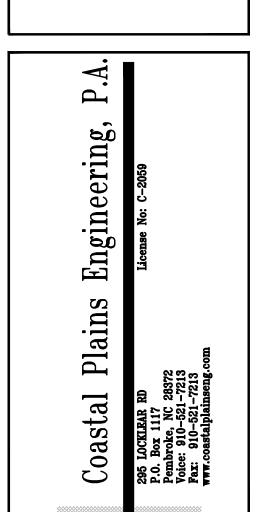
ALL EQUIPMENT MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK OR IN ACCORDANCE WITH THE PARTICULAR MANUFACTURER'S STANDARD GUARANTEE IF LONGER. ANY FAULTY MATERIAL OR WORKMANSHIP OR FAILURE OF ANY PART OF THE SYSTEM DURING NORMAL OPERATIONS UNDER THIS GUARANTEE SHALL BE CORRECTED WATER OF THE OWNER. WITHOUT COST TO THE OWNER.

ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

BUILDING CONTRACTOR SHALL PROVIDE PERMANENT ACCESS TO ROOF STRUCTURE FOR ACCESS TO MECHANICAL EQUIPMENT WHEN ROOF STRUCTURE IS GREATER THAN 16'-0" HIGH.







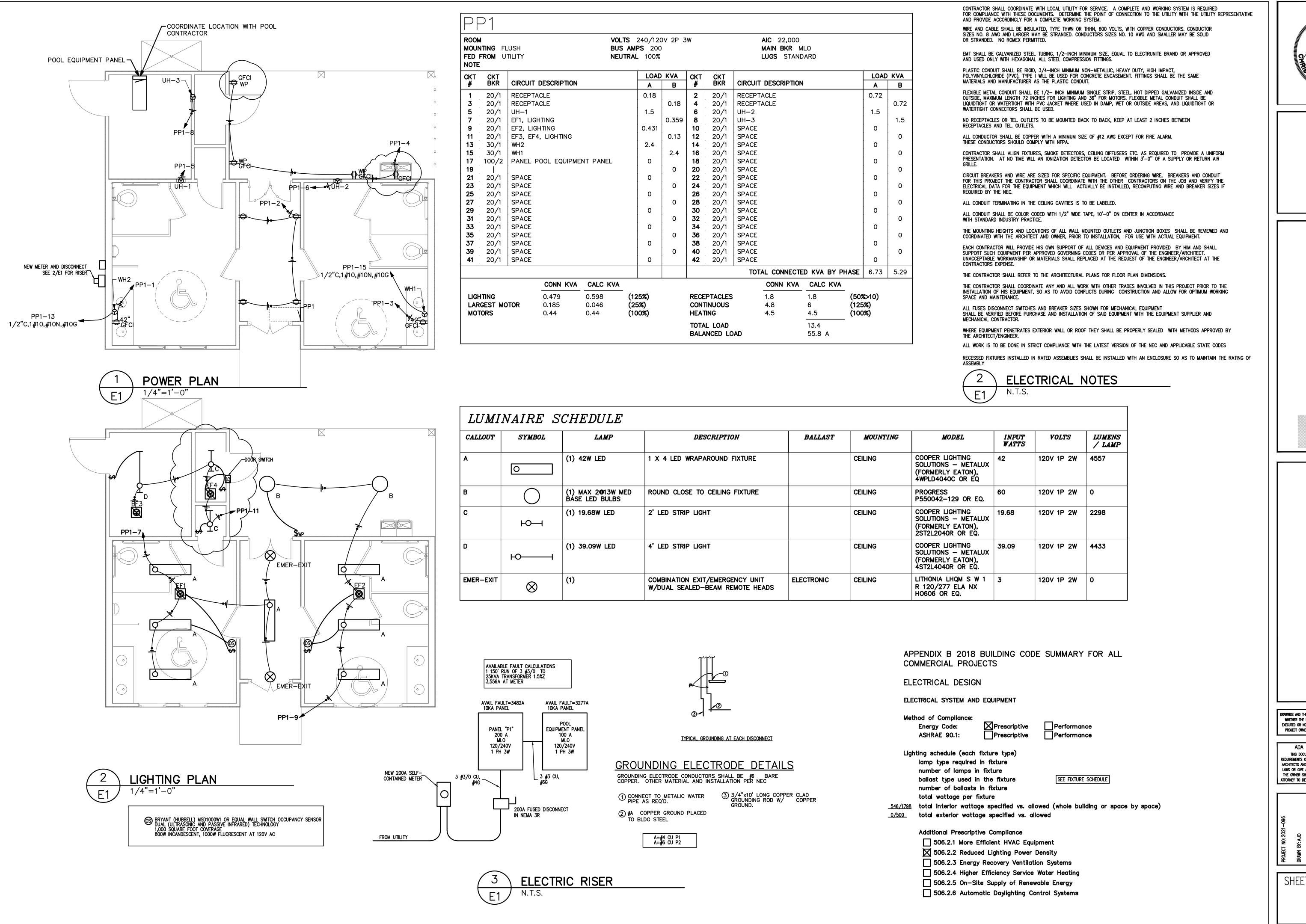
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Drawn By: AJO Date: Revisions:

SHEET NO: