

**2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Lexington Plantation Pool House
 Address: 400 Centennial Parkway Cameron, NC Zip Code 28326
 Owner/Authorized Agent: Village at Lexington Phone # (910) 484 - 5400 E-Mail jamie@littleandyoung.n
 Owned By: HOA City/County Private State
 Code Enforcement Jurisdiction: City County Harnett State

CONTACT: Christopher G. Herndon, PE CWI

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	<u>Draper Aden Associates</u>	<u>Andrew P. Mericle, PE</u>	<u>041595</u>	<u>(919) 827-0864</u>	<u>americle@daa.com</u>
Civil					
Electrical					
Fire Alarm					
Plumbing	<u>Coastal Plains Engineering, PA</u>	<u>Christopher S. Locklear, PE</u>	<u>020193</u>	<u>(910) 521-7213</u>	<u>coastalplainseng@gmail.com</u>
Mechanical					
Sprinkler-Standpipe					
Structural	<u>Draper Aden Associates</u>	<u>Christopher G. Herndon, PE CWI</u>	<u>043810</u>	<u>(919) 827-0864</u>	<u>cherndon@daa.com</u>
Retaining Walls >5' High					
Other					

(*Others* should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC CODE FOR: New Construction Addition Renovation
 1st Time Interior Completion
 Shell/Core
 Phased Construction - Shell/Core
 Renovation

2018 NC EXISTING BUILDING CODE: Prescriptive Repair Chapter 14
 Level I Level II Level III
 Historic Property Change of Use

CONSTRUCTED:(date) _____ **ORIGINAL OCCUPANCY(S)**(Ch. 3): _____
RENOVATED: (date) _____ **CURRENT OCCUPANCY(S)**(Ch. 3): _____

RISK CATEGORY (table 1604.5) Current: I II III IV
 Proposed: I II III IV

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes (Primary) **Flood Hazard Area:** No Yes
 Special Inspections Required: No Yes

2018 NC Administrative Code and Policies Appendix B for Building

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ FT)	SUB-TOTAL
6 th Floor				
5 th Floor				
4 th Floor				
3 rd Floor				
2 nd Floor				
Mezzanine				
1 st Floor		864		
Basement				
TOTAL				

ALLOWABLE AREA
Primary Occupancy Classification: SELECT ONE
 Assembly A-1 A-2 A-3 A-4 A-5
 Business
 Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1 Condition I-2 I-3 Condition I-4
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous

Accessory Occupancy Classification(s): _____
Incidental Uses (Table 509): _____
 Special Uses (Chapter 4 – List Code Sections): _____
 Special Provisions: (Chapter 5 – List Code Sections): _____
Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____
 Non-Separated Use (508.3)
 The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
 Separated Use (508.4) -
 See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

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

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STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ¹ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{1,3}
1	UTILITY	864	5,500		5,500

¹ Frontage area increases from Section 506.3 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
 b. Total Building Perimeter = _____ (P)
 c. Ratio (F/P) = _____ (F/P)
 d. W = Minimum width of public way = _____ (W)
 e. Percent of frontage increase $I_1 = 100 [F/P - 0.25] \times W/30 = \text{_____} (\%)$
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4
⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40	18.5	
Building Height in Stories (Table 504.4)	1	1	

¹ Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.
² The maximum height of air traffic control towers must comply with Table 412.3.1
³ The maximum height of open parking garages must comply with Table 406.5.4

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FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED * (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls		0					
Exterior		0					
North	114'						
East	77'						
West	186'						
South	102'						
Interior		0					
Nonbearing Walls and Partitions		0					
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions		0					
Floor Construction Including supporting beams and joists							
Floor Ceiling Assembly							
Column Supporting Floors							
Roof Construction, including supporting beams and joists		0					
Roof Ceiling Assembly							
Column Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PROPERTY LINES)	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

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114 Edinburgh South Drive, Suite 200
 919-827-0864, Fax: 919-839-8138
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 • Charlottesville, VA

APPENDIX B
 Lexington Plantation Pool House
 400 Centennial Parkway Cameron, NC 28326

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: CGH
 DRAWN BY: CGH
 CHECKED BY: AC
 SCALE:
 DATE: 12/21/21
 PROJECT NUMBER: 2101033

A0.1

DRAWING LIST

SHEET NUMBER	SHEET NAME
A0.1	APPENDIX B
A1.0	ELEVATIONS & FLOOR PLAN
LS1.0	LIFE SAFETY PLAN
S0.1	GENERAL NOTES
S0.2	APPENDIX B
S1.0	FOUNDATION & FRAMING PLANS

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(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	5' ACCESS AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS	URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
			MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
EXIST'G								
NEW	1	2		1	2	2	1	1
REQ'D								

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)

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LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes
 Exit Signs: No Yes
 Fire Alarm: No Yes
 Smoke Detection Systems: No Yes Partial
 Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LS1.0

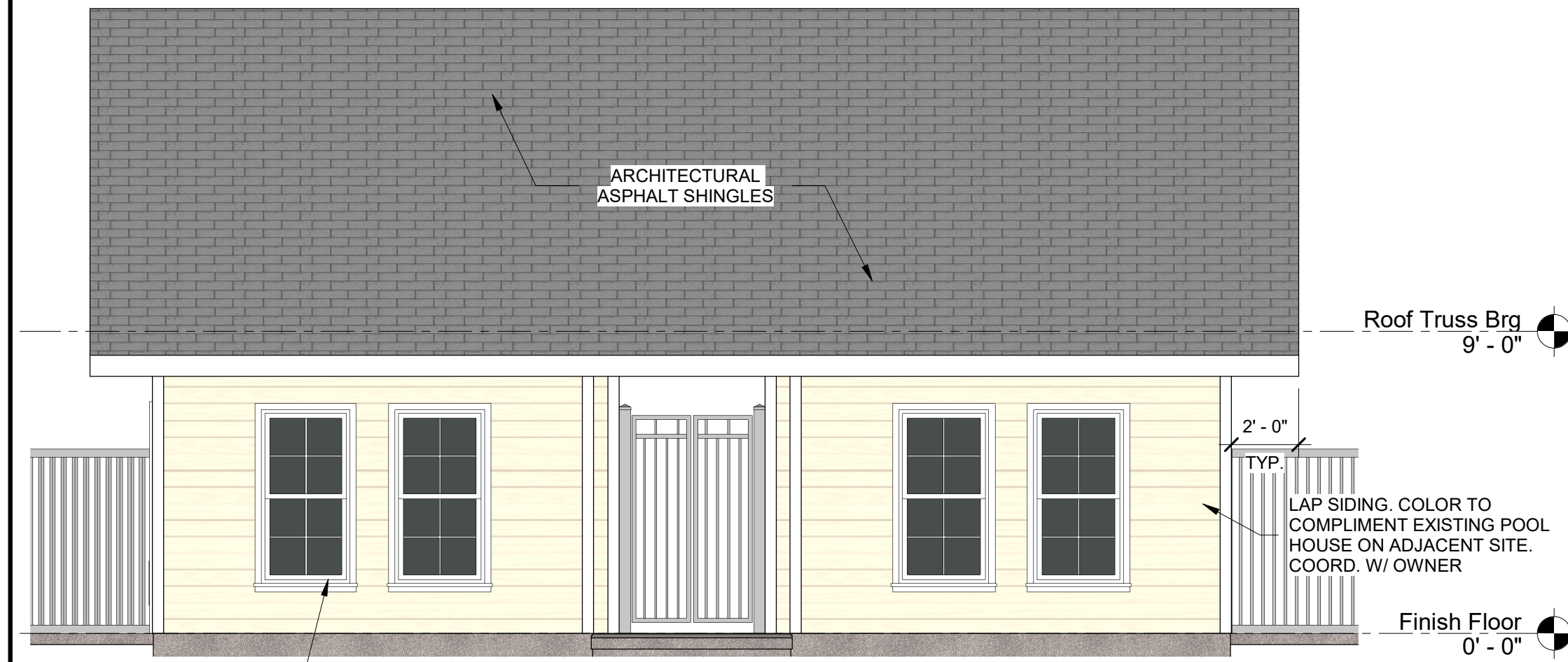
Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (if not on the site plan)
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (1006.2.1 & 2006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

Section/Table/Note	Title

ACCESSIBLE DWELLING UNITS (SECTION 1107)

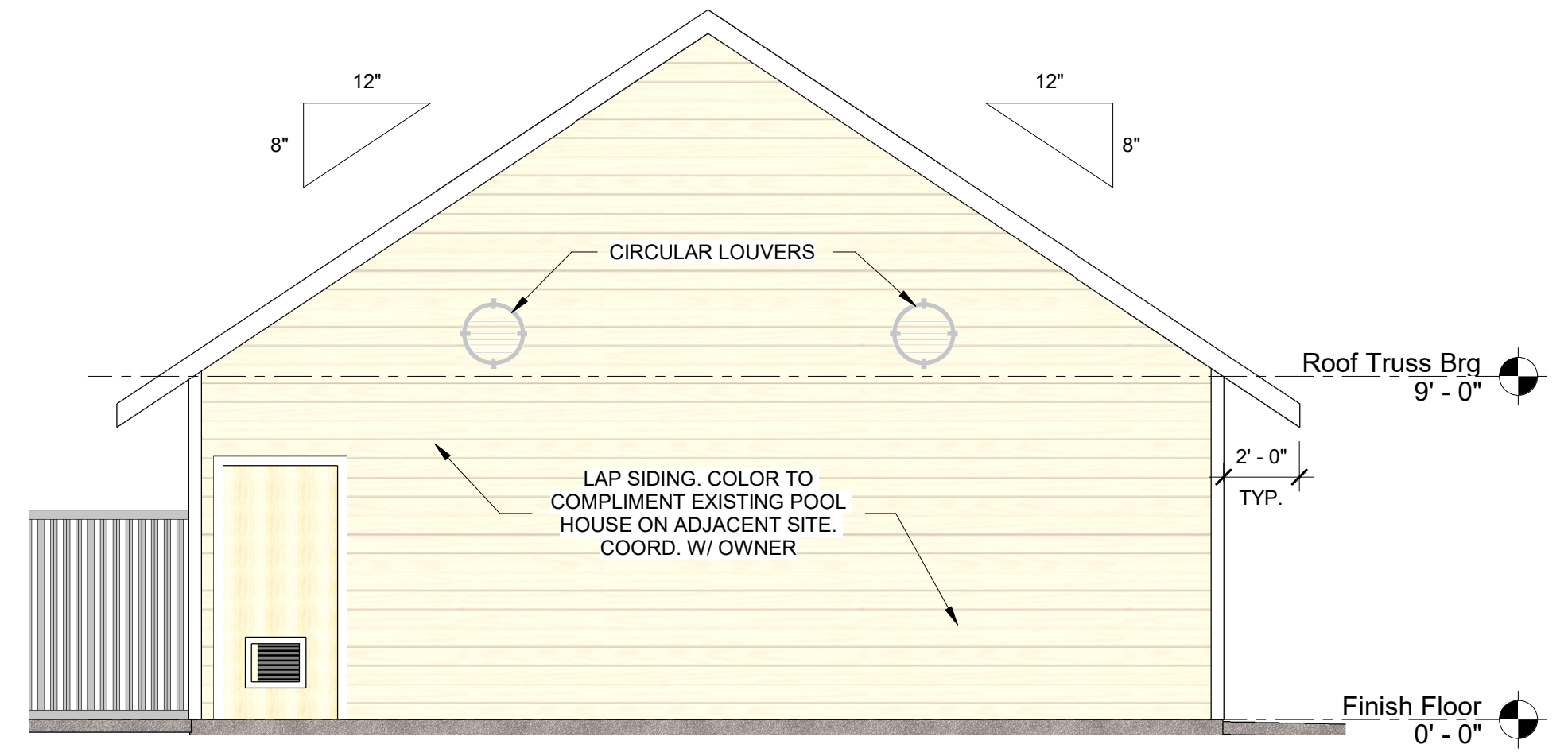
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

2018 NC Administrative Code and Policies Appendix B for Building



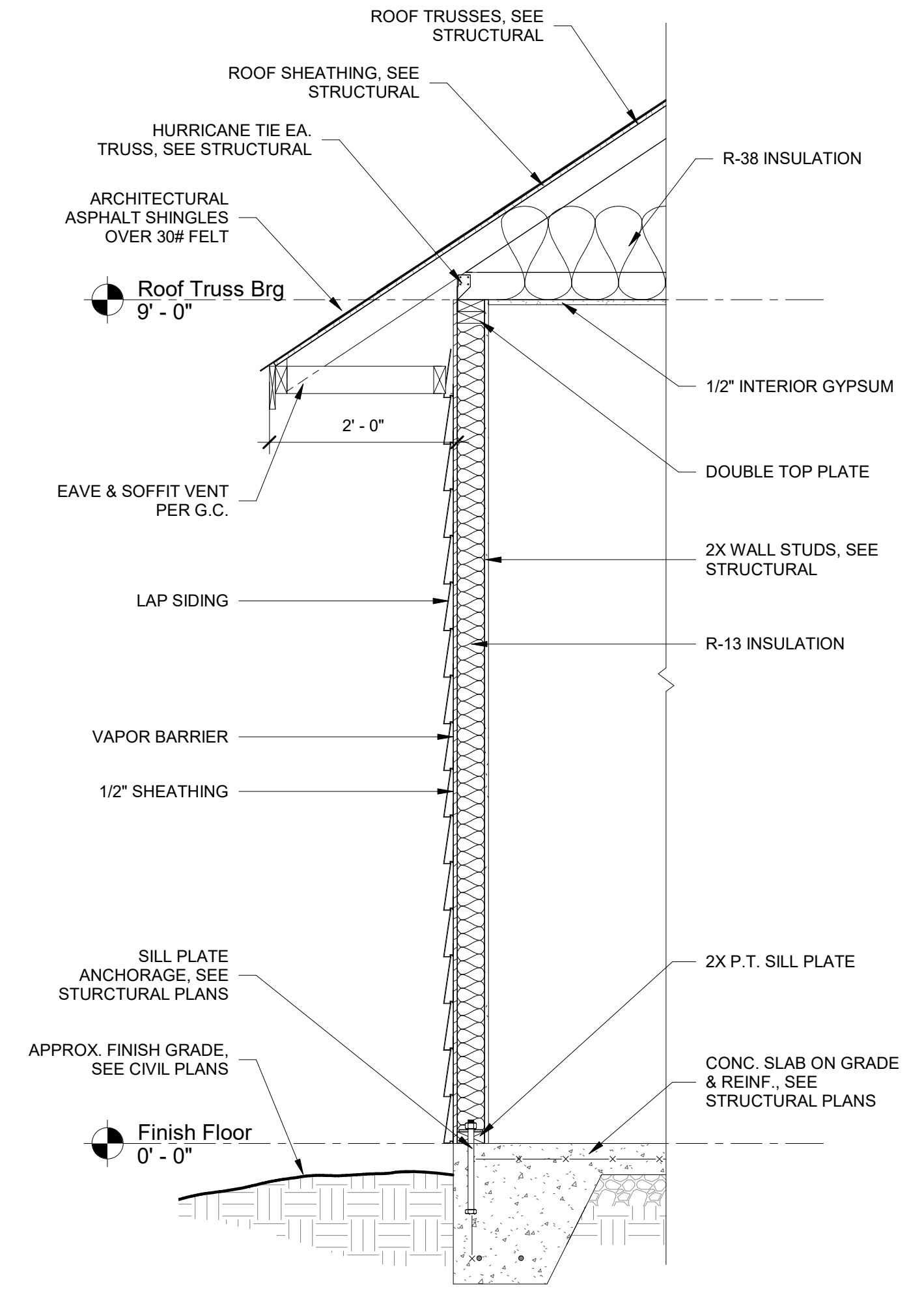
FRONT ELEVATION

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



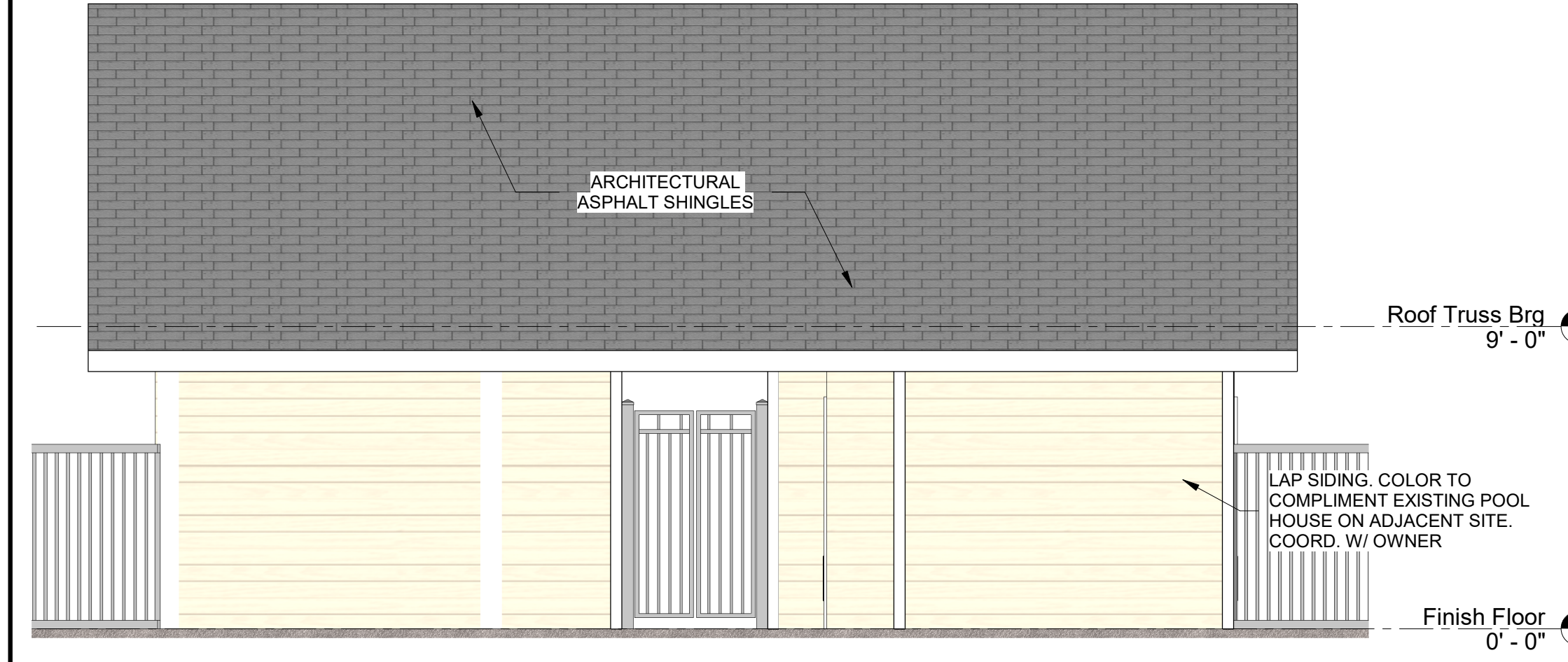
LEFT ELEVATION

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



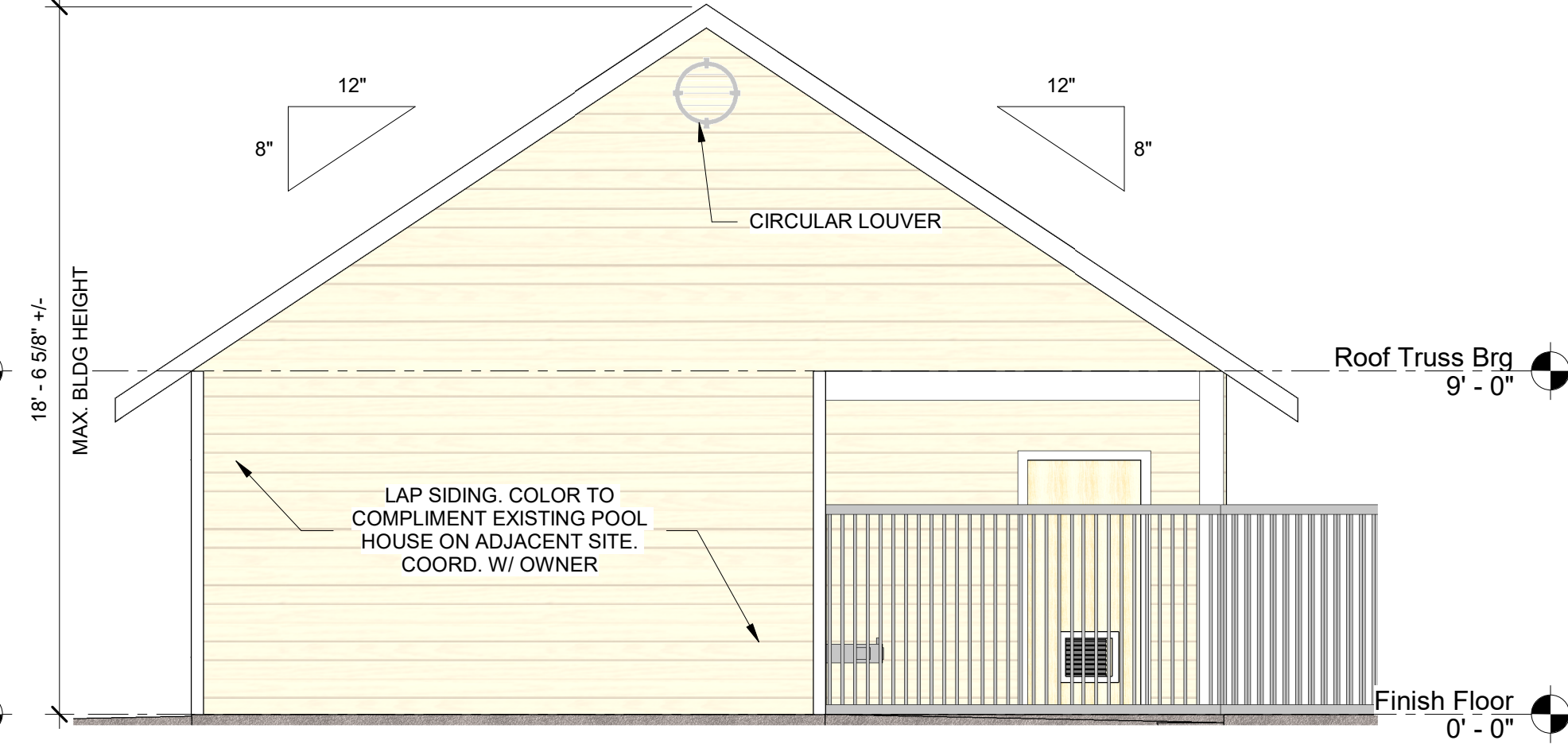
TYP. WALL SECTION

SCALE: 3/4" = 1'-0"



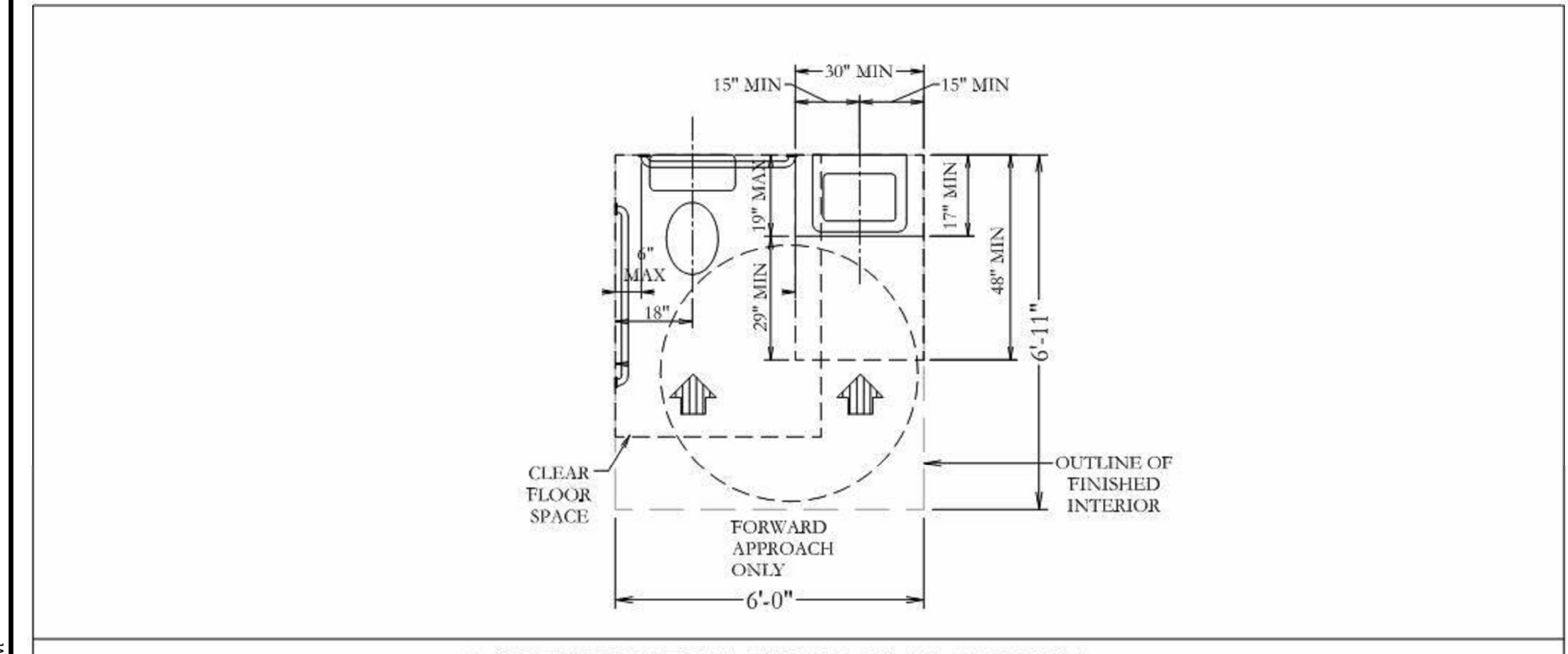
REAR ELEVATION

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

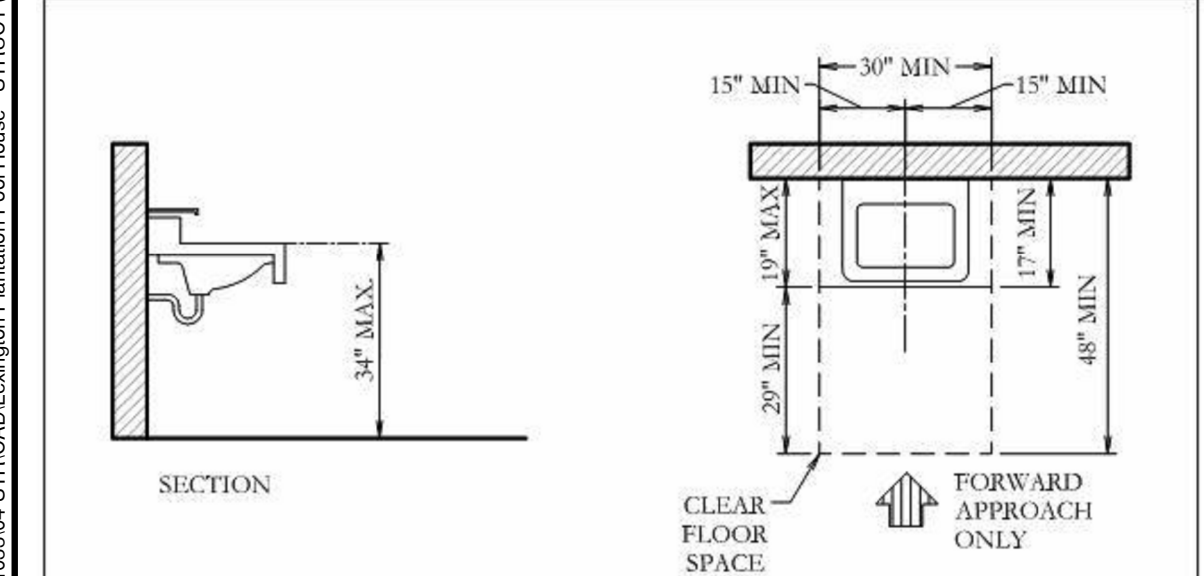


RIGHT ELEVATION

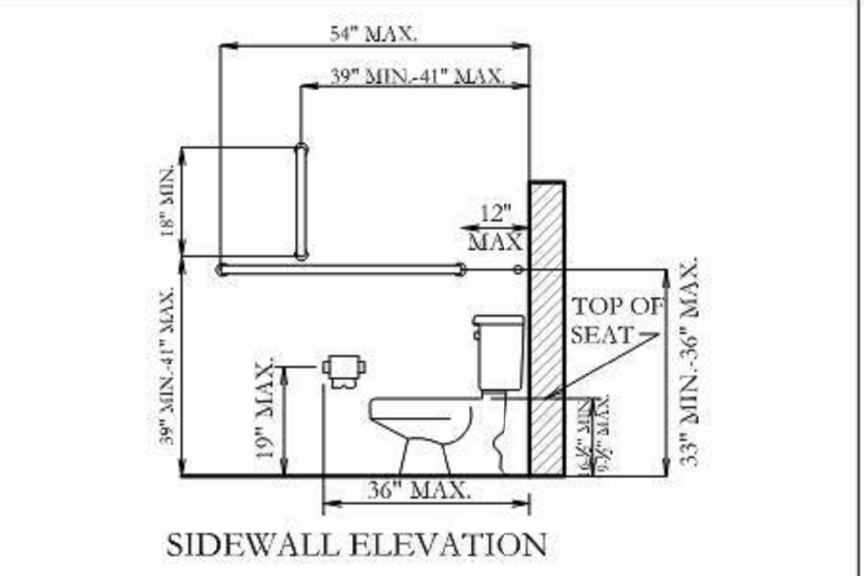
SCALE: 1/4" = 1'-0"



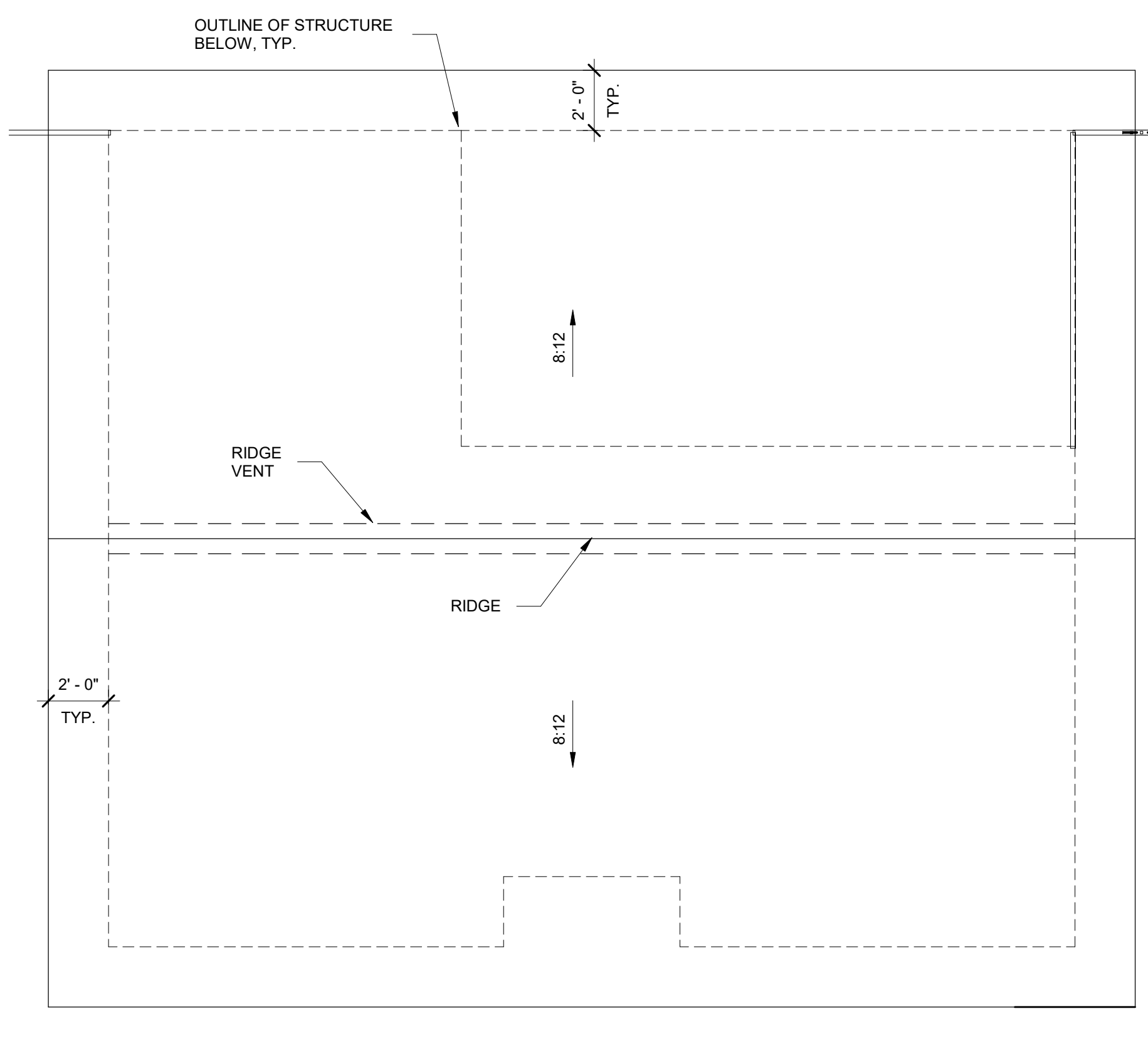
ACCESSIBLE BATHROOM LAYOUT



SINKS

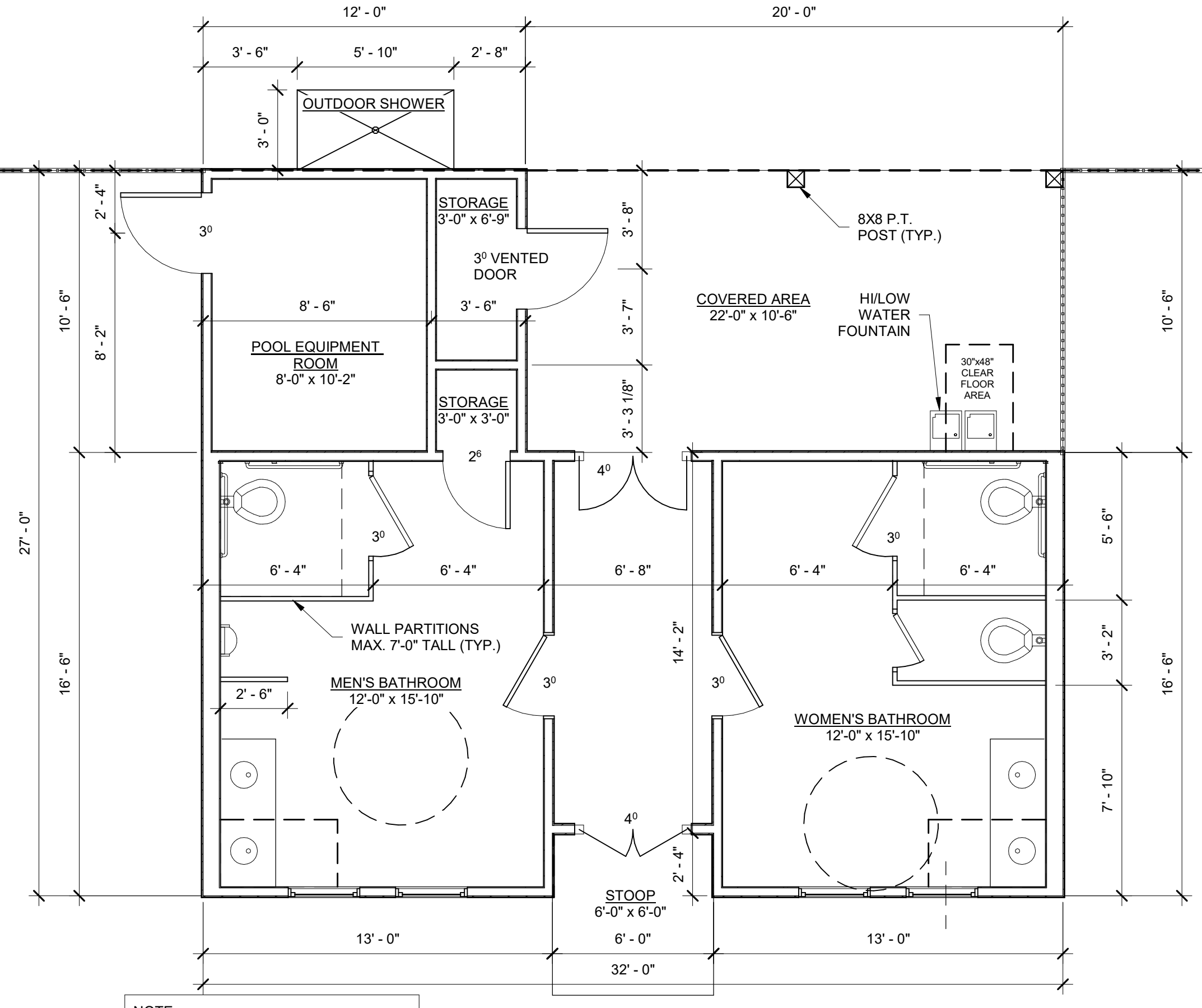


TOILET ACCESSORIES



ROOF PLAN

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



FLOOR PLAN

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

NOTE: ALL DIMENSIONS TO EXTERIOR WALLS ARE TO OUTSIDE FACE OF STUD, TYP.

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ELEVATIONS & FLOOR PLAN

Lexington Plantation Pool House

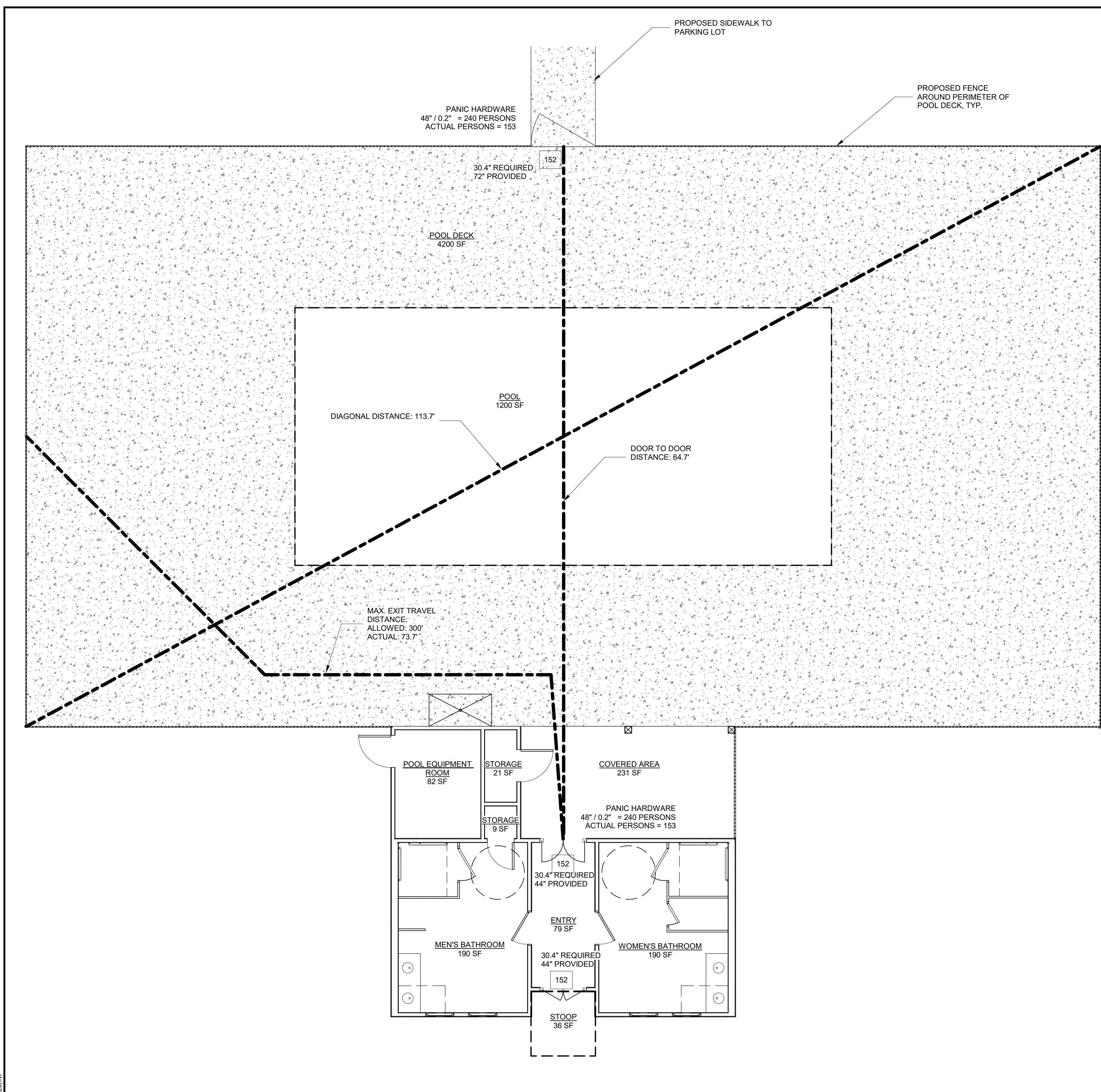
400 Centennial Parkway Cameron, NC 28326

REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: CGH
 DRAWN BY: CGH
 CHECKED BY: AC
 SCALE: As indicated
 DATE: 12/21/21
 PROJECT NUMBER: 2101033

A1.0

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LIFE SAFETY PLAN

SCALE: 3/16" = 1'-0"

BUILDING CODE NOTES:

- APPLICABLE CODES: 2018 NORTH CAROLINA STATE BUILDING CODE/ 2015 INTERNATIONAL BUILDING CODE
- OCCUPANCY CLASSIFICATION:**
PROPOSED BUILDING USE: ANCILLARY STRUCTURE TO SERVICE COMMUNITY POOL
PROPOSED CLASSIFICATION: U - UTILITY AND MISCELLANEOUS (POOL HOUSE)
A - ASSEMBLY (POOL & POOL DECK)
- CONSTRUCTION TYPE:**
PROPOSED: TYPE VB CONSTRUCTION, NON-SPRINKLERED
- HEIGHT AND AREA LIMITATIONS:**

AREA:			
TABULAR AREA (TABLE 506.2):		5,500 SF	
ALLOWABLE AREA (100% OPEN PERIMETER):		5,500 SF	
ACTUAL AREA:			
PROPOSED AREA:	GROSS SF	NET SF	
	864 GSF	471 NSF	
* NET SF = AREA INSIDE EXTERIOR WALLS			
HEIGHT:			
ALLOWABLE HEIGHT (TABLE 504.3):		40'-0" (1 STORY)	
PROPOSED HEIGHT:		18'-7" (1 STORY)	
- OCCUPANT LOAD:**

USE	SIZE	OCC'S PER SF	OCCS.
POOL	1,200 SF	1 OCC PER 50 SF	24
POOL DECK	4,200 SF	1 OCC PER 15 SF	280
			TOTAL: 304

NOTE: POOL HOUSE SQUARE FOOTAGE IS CONSIDERED NON-SIMULTANEOUS OCCUPANCY
- MEANS OF EGRESS:**

SPACE	EXITS REQ'D	EXITS PROVIDED
POOL + POOL DECK	2	2
ELEMENT	WIDTH REQ'D	WIDTH PROVIDED
POOL GATE TO PARKING LOT	30.4	72"
POOL GATES AT FRONT OF BLDG	30.4	44"

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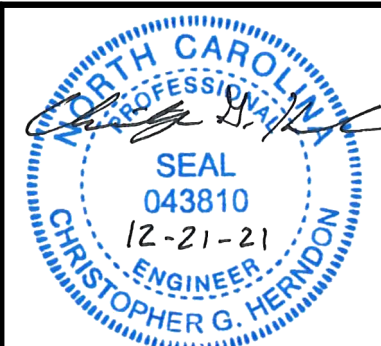
LIFE SAFETY PLAN
Lexington Plantation Pool House
 400 Centennial Parkway Cameron, NC 28326

REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: CGH
 DRAWN BY: CGH
 CHECKED BY:
 SCALE: As indicated
 DATE: 12/21/21
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LS1.0

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 114 Edinburgh North Drive, Suite 200 • Blacksburg, VA
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GENERAL NOTES
 Lexington Plantation Pool House
 400 Centennial Parkway Cameron, NC 28326

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: CGH
 DRAWN BY: CGH
 CHECKED BY: DWS
 SCALE: 12" = 1'-0"
 DATE: 12/21/21
 PROJECT NUMBER: 2101033

S0.1

GENERAL STRUCTURAL NOTES AND SPECIFICATIONS

DESIGN CRITERIA:

- DESIGNED UNDER THE PROVISIONS OF THE 2018 NORTH CAROLINA STATE BUILDING CODE/INTERNATIONAL BUILDING CODE(IBC) 2015/ASCE 7-10
- DESIGN LOADS:
 LIVE LOADS:
 ROOF LIVE LOAD = 20 PSF
 FIRST FLOOR SLAB ON GRADE = 100 PSF
 SNOW LOADS:
 DESIGN GROUND SNOW LOAD, Pg = 10 PSF
 SNOW EXPOSURE FACTOR, Ce = 1.0
 SNOW IMPORTANCE FACTOR, Is = 1.0??
 THERMAL FACTOR, Ct = 1.2
 FLAT ROOF SNOW LOAD, Pf = 8.4 PSF
 WIND LOAD (ULTIMATE):
 DESIGN WIND VELOCITY,V3S = 120 MPH
 RISK CATEGORY: II
 WIND IMPORTANCE FACTOR, Iw = 1.0
 EXPOSURE: C
 INTERNAL PRESSURE COEF. = ±0.18
 EDGE STRIP, a = 3 FT
 END ZONE, Za = 6 FT
 MAIN WINDFORCE RESISTING SYSTEM DESIGN PRESSURES:
 INTERIOR ZONE: WALL = 24.7 PSF
 ROOF = 17 PSF
 END ZONE: WALL = 31.1 PSF
 ROOF = 21.3 PSF
 COMPONENT AND CLADDING WIND PRESSURES: (A= 100 SF)
 NET ROOF UPLIFT AT CORNER = -36.7 PSF
 NET ROOF UPLIFT AT EDGE STRIP = -36.7 PSF
 NET ROOF UPLIFT AT INTERIOR = -31.4 PSF
 WALL PRESSURE AT CORNER = -42 PSF
 WALL PRESSURE AT INTERIOR = -34 PSF
WIND BASE SHEAR = 10.6 KIPS ULTIMATE (PLAN N-S)
 = 5.1 KIPS ULTIMATE (PLAN E-W)
 SEISMIC LOAD (ULTIMATE):
 SEISMIC SITE CLASSIFICATION: = D
 SEISMIC DESIGN CATEGORY: = C
 RISK CATEGORY: = II
 SEISMIC IMPORTANCE FACTOR, Ie = 1.0
 DESIGN EARTHQUAKE:
 Ss = 20.5 % g
 S1 = 9.3 % g
 Sds = 0.219g
 Sd1 = 0.149g
 SEISMIC ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE WITH DYNAMIC CHARACTERISTICS
 LATERAL FORCE RESISTING SYSTEM: LIGHT FRAME WOOD WALLS WITH STRUCTURAL WOOD SHEAR PANELS
 RESPONSE MODIFICATION COEFFICIENT, R = 6.5
 DEFLECTION AMPLIFICATION FACTOR, Cd = 4
SEISMIC BASE SHEAR = 1 KIPS ULTIMATE
WIND FORCE GOVERNS LATERAL DESIGN
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER TRADES DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL COMPARE AND VERIFY STRUCTURAL DRAWINGS AND SPECIFICATIONS w/ ARCHITECTURAL AND ALL OTHER TRADES DWGS., SPECIFICATIONS, AND REQUIREMENTS AND REPORT ANY DISCREPANCY TO THE STRUCTURAL ENGINEER AND DESIGN TEAM PRIOR TO DEMOLITION, FABRICATION, AND / OR INSTALLATION OF ANY STRUCTURAL MEMBERS.
- VERIFY NUMBER, SIZE, AND LOCATION OF ALL ROOF OPENINGS FROM APPROVED SHOP DRAWINGS.
- NO LOADS IN EXCESS OF DESIGN LOADS LISTED SHALL BE PLACED ON ANY AREA DURING CONSTRUCTION UNLESS ADEQUATE SHORING OR OTHER METHOD IS APPROVED TO SUPPORT THE EXCESSIVE LOADS. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE UNTIL PERMANENT BRACING IS COMPLETED.
- WHERE ALIGNMENT OF MATERIALS SUCH AS WALLS AND FACING MATERIALS WILL BE AFFECTED BY DEFLECTIONS AND ROTATIONS OF THE STRUCTURE DURING PLACEMENT OF THE MATERIALS, PROCEDURES SHALL BE USED WHICH WILL ASSURE THE CORRECT FINAL POSITIONS OF MATERIALS.
- ALL NOTES ON STRUCTURAL DRAWINGS SHALL BE ASSUMED TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS.
- SECTIONS AND DETAILS ARE TO BE USED IN ALL SIMILAR LOCATIONS UNLESS OTHERWISE SHOWN BY OTHER DETAILS AND/OR SECTIONS.
- SEE ARCHITECTURAL DRAWINGS FOR WEATHERPROOFING DETAILS.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION OF CONSTRUCTION OF THE PROJECT AND THEN, ONLY TO SUPPORT THE DESIGN LOADS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND FOR THE ADEQUACY OF THE STRUCTURE TO SUPPORT LOADS OCCURRING DURING CONSTRUCTION. FURNISH ALL TEMPORARY BRACING, SHORING, AND/OR SUPPORT AS REQUIRED.
- CHECK ALL DIMENSIONS AGAINST THE REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. RESOLVE APPARENT INCONSISTENCIES IN THE CONTRACT DOCUMENTS WITH THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK.
- PROMPTLY NOTIFY THE ENGINEER OF ANY STRUCTURAL MEMBER CALLED OUT ON THE ARCHITECTURAL, MECHANICAL, PLUMBING, OR ELECTRICAL DRAWINGS THAT IS NOT IDENTIFIED ON THE STRUCTURAL DRAWINGS.
- WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE ENTIRETY OF THE STRUCTURAL SUBMITTAL (CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, SPECIFICATIONS, SECTIONS, ETC.) THE STRICTEST REQUIREMENTS, AS INDICATED BY THE STRUCTURAL ENGINEER, SHALL GOVERN. U.N.O.

SUBMITTALS FOR APPROVAL:

- CONCRETE:**
- PRODUCT DATA:** FOR EACH TYPE OF PRODUCT.
 - DESIGN MIXTURES:** FOR EACH CONCRETE MIXTURE.
 - STEEL REINFORCEMENT SHOP DRAWINGS:** PLACING DRAWINGS THAT DETAIL FABRICATION, BENDING, AND PLACEMENT.
- WOOD PRE-ENGINEERED TRUSSES:**
- PRODUCT DATA:** FOR METAL-PLATE CONNECTORS, METAL TRUSS ACCESSORIES, AND FASTENERS.
 - SHOP DRAWINGS:** SHOW FABRICATION AND INSTALLATION DETAILS FOR TRUSSES.
 - SHOW LOCATION, PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED.
 - INDICATE SIZES, STRESS GRADES, AND SPECIES OF LUMBER.
 - INDICATE LOCATIONS OF PERMANENT BRACING REQUIRED TO PREVENT BUCKLING OF INDIVIDUAL TRUSS MEMBERS DUE TO DESIGN LOADS.
 - INDICATE LOCATIONS, SIZES, AND MATERIALS FOR PERMANENT BRACING REQUIRED TO PREVENT BUCKLING OF INDIVIDUAL TRUSS MEMBERS DUE TO DESIGN LOADS.
 - INDICATE TYPE, SIZE, MATERIAL, FINISH, DESIGN VALUES, ORIENTATION, AND LOCATION OF METAL CONNECTOR PLATES.
 - SHOW SPLICE DETAILS AND BEARING DETAILS.
 - DELEGATED-DESIGN SUBMITTAL:** FOR METAL-PLATE-CONNECTED WOOD TRUSSES INDICATED TO COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
- WOOD ENGINEERED CONSTRUCTION:**
- ENGINEERED WOOD PRODUCT DATA:** FOR EACH TYPE OF PRODUCT.
- WOOD EXTERIOR CARPENTRY:**
- PRODUCT DATA:** FOR PRESERVATIVE-TREATED WOOD PRODUCTS.

SPECIAL INSPECTIONS:

- SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 17 OF THE 2018 NORTH CAROLINA STATE BUILDING CODE. AN APPROVED SPECIAL INSPECTION AGENCY SHALL BE PROVIDED BY THE OWNER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL INSPECTION PROCEDURES WITH THE OWNER AND THE OWNER'S AGENT. A FINAL REPORT OF INSPECTIONS DOCUMENTING COMPLETION OF ALL WORK SHALL BE SUBMITTED TO THE CODE OFFICIAL.
- SPECIAL INSPECTIONS FOR CONCRETE CONSTRUCTION SHALL MEET REQUIREMENTS OF SECTION 1705.3 AND TABLE 1705.3.
- SPECIAL INSPECTIONS FOR WOOD CONSTRUCTION SHALL MEET REQUIREMENTS OF SECTION 1705.5.

DIVISION 3:

- CONCRETE NOTES:**
- ALL DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL, FORM WORK, MIXING, HANDLING, PLACING, FINISHING, AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH CURRENT EDITIONS OF ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315) AND ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318).
 - CONCRETE SHALL CONFORM TO ASTM C94. MINIMUM STRENGTH AT 28 DAYS SHALL BE 3000 PSI FOR FOOTING CONCRETE AND 4000 PSI FOR ALL OTHER CONCRETE. FOR CONCRETE OTHER THAN SLABS ON GRADE, MAXIMUM WATER-TO-CEMENT RATIO SHALL BE 0.60 WITH MAXIMUM SLUMP OF 4 INCHES. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4 INCH, AND ALL AGGREGATES SHALL CONFORM TO ASTM C33.
 - CONCRETE SLABS ON GRADE SHALL BE FINISHED TO THE FOLLOWING TOLERANCES:
 FF=25 FL=20
 MINIMUM LOCALIZED: FF=15 FL=10
 - EXTERIOR CONCRETE SHALL BE AIR ENTRAINED, AIR CONTENT TO BE BETWEEN 5 AND 7 PERCENT BY VOLUME.
 - ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 (S1), NEW BILLET STEEL DEFORMED BARS, GRADE 60. UNLESS NOTED OTHERWISE, ALL REINFORCING BAR SPLICES SHALL BE ACI CLASS B TENSION LAP SPLICES, U.N.O. WELDED WIRE FABRIC (W.W.F.) SHALL MEET ASTM A1064. MINIMUM W.W.F. LAP AT SPLICES SHALL BE 8 INCHES.
 - THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT NEAREST THE DESCRIBED SURFACE, UNLESS NOTED OTHERWISE:
 CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
 - COORDINATE LOCATIONS AND DEPTHS OF ALL FLOOR SLAB DEPRESSIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
 - UNLESS NOTED OTHERWISE, SLABS ON GRADE SHALL HAVE EITHER CONSTRUCTION JOINTS OR SAW CUT JOINTS SPACED SO THE JOINTS FORM PANELS IN THE SLAB WITH NO SLAB PANEL GREATER THAN 144 SQUARE FEET NOR MORE THAN 12 FEET IN ANY ONE DIRECTION. INSTALL SAW CUT CONSTRUCTION JOINTS AS SOON AS THE SLAB IS CAPABLE OF BEING SAWN WITHOUT RAVELING, BUT IN NO CASE LATER THAN 8 HOURS AFTER FINAL FINISHING BEGINS. CONTRACTOR TO SUBMIT ONE PLAN SHOWING CONSTRUCTION AND CONTROL JOINT LAYOUT FOR ALL SLABS ON GRADE.
 - INTERIOR SLAB CONCRETE SHALL RECEIVE A STEEL TROWEL FINISH. IMMEDIATELY FOLLOWING FINISHING, THE CONCRETE SHALL BE PROTECTED FROM PREMATURE OR EXCESSIVE DRYING, TEMPERATURE EXTREMES AND INJURY.
 - CAST SIX CYLINDERS OF EACH CONCRETE POUR. TEST TWO CYLINDERS SEVEN DAYS AFTER CASTING AND TWO 28 DAYS AFTER CASTING. HOLD TWO CYLINDERS FOR POSSIBLE TEST UNTIL 60 DAYS AFTER CASTING. DISPOSE OF CYLINDERS IF TEST IS NOT REQUESTED. SEND REPORTS TO ARCHITECT, CONTRACTOR AND STRUCTURAL ENGINEER.

DIVISION 5:

- POST INSTALLED ANCHORS AND DOWELS NOTES:**
- ANCHOR OR DOWEL CAPACITY USED IN CONSTRUCTION SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY THE MANUFACTURER OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.
 - INSTALL ANCHORS AND DOWELS STRICTLY IN ACCORDANCE WITH THE MANUFACTURER INSTRUCTIONS.
 - ANCHOR CAPACITY DEPENDS ON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH THE SPACING AND EDGE CLEARANCES INDICATED ON THE PROJECT DRAWINGS, AND MANUFACTURER REQUIREMENTS.
 - INSTALL ANCHORS AND DOWELS IN HOLES DRILLED PER MANUFACTURER REQUIREMENTS, TO DEPTH INDICATED, AND NOT LESS THAN MINIMUM EMBEDMENT DEPTH RECOMMENDED BY ADHESIVE MANUFACTURER. HOLES SHALL BE CLEANED AND BLOWN OUT PER MANUFACTURER REQUIREMENTS. HOLES SHALL BE KEPT FREE AND CLEAR OF DIRT, DEBRIS, AND MOISTURE UNTIL ADHESIVE AND DOWEL OR ANCHOR IS INSTALLED. ADHESIVE AND DOWELS OR ANCHORS SHALL BE INSTALLED DURING THE SAME WORK DAY THAT HOLES ARE CORED. CONTRACTOR SHALL PROVIDE CONTINUOUS INSPECTION DURING CORING AND INSTALLATION OF THE FIRST 10% OF ANCHORS INSTALLED, AFTER WHICH TIME PERIODIC INSPECTION SHALL BE PROVIDED.
 - ADHESIVE ANCHOR SHALL CONSIST OF THREADED ROD, NUT, WASHER, AND ADHESIVE.
 THREADED ROD: ASTM A36
 NUTS: ASTM A563
 WASHERS: ASTM F436
 ADHESIVE: SPECIFIED HILTI ADHESIVE, OR EQUAL.
 CORROSION PROTECTION: ROD, NUT, AND WASHER SHALL BE ZINC PLATED PER ASTM B633 FOR SERVICE CONDITION SC-1, OR ZINC COATED BY MECHANICAL PROCESS IN ACCORDANCE WITH ASTM B695.
 - ADHESIVE DOWEL SHALL CONSIST OF REINFORCING BAR AND ADHESIVE.
 REINFORCING BAR: ASTM A615 GRADE 60 DEFORMED BAR
 ADHESIVE: SPECIFIED HILTI ADHESIVE, OR EQUAL.
 - INSTALL SCREW ANCHORS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN PROCEDURES. SCREW ANCHORS SHALL BE EMBEDDED IN GROUDED MASONRY AND SHALL NOT BE INSTALLED IN MASONRY BED OR HEAD JOINTS. SCREW ANCHORS SHALL BE ZINC PLATED PER ASTM B633 FOR SERVICE CONDITION SC-1, OR ZINC COATED BY MECHANICAL PROCESS IN ACCORDANCE WITH ASTM B695.

DRAPER ADEN ASSOCIATES REVIEW

THESE PLANS HAVE BEEN SUBJECTED TO TECHNICAL AND QUALITY REVIEWS BY:

CHRISTOPHER G. HERNDON, PE		7/9/21
NAME: PRINTED	SIGNATURE	DATE
PROJECT ENGINEER		
CHRISTOPHER G. HERNDON, PE		7/9/21
NAME: PRINTED	SIGNATURE	DATE
PROJECT MANAGER		
DAVID W. SPRIGGS, PE		7/9/21
NAME: PRINTED	SIGNATURE	DATE
QUALITY REVIEWER		

**2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Lexington Plantation Pool House
 Address: 400 Centennial Parkway Cameron, NC Zip Code 28326
 Owner/Authorized Agent: Village at Lexington Phone # (910) 484 - 5400 E-Mail jamie@littleandyoung.net
 Owned By: HOA City/County Private State
 Code Enforcement Jurisdiction: City County Harnett State

CONTACT: Christopher G. Herndon, PE CWI

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				()	
Civil	<u>Draper Aden Associates</u>	<u>Andrew P. Mericle, PE</u>	<u>041595</u>	<u>(919) 827-0864</u>	<u>americle@daa.com</u>
Electrical				()	
Fire Alarm				()	
Plumbing	<u>Coastal Plains Engineering, PA</u>	<u>Christopher S. Locklear,</u>	<u>020193</u>	<u>(910) 521-7213</u>	<u>coastalplainseng@gmail.com</u>
Mechanical		<u>PE</u>		()	
Sprinkler-Standpipe				()	
Structural	<u>Draper Aden Associates</u>	<u>Christopher G. Herndon,</u>	<u>043810</u>	<u>(919) 827-0864</u>	<u>cherndon@daa.com</u>
Retaining Walls >5' High		<u>PE CWI</u>		()	
Other				()	

("Others" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC CODE FOR: New Construction Addition Renovation
 1st Time Interior Completion
 Shell/Core
 Phased Construction – Shell/Core
 Renovation

2018 NC EXISTING BUILDING CODE: Prescriptive Repair Chapter 14
 Alteration: Level I Level II Level III
 Historic Property Change of Use

CONSTRUCTED:(date) _____ ORIGINAL OCCUPANCY(S) (Ch. 3): _____
 RENOVATED: (date) _____ CURRENT OCCUPANCY(S) (Ch. 3): _____
RISK CATEGORY (table 1604.5) Current: I II III IV
 Proposed: I II III IV

BASIC BUILDING DATA
 Construction Type: I-A II-A III-A IV V-A
 (check all that apply) I-B II-B III-B V-B
 Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
 Standpipes: No Yes Class I II III Wet Dry
 Fire District: No Yes (Primary) **Flood Hazard Area:** No Yes
 Special Inspections Required: No Yes

2018 NC Administrative Code and Policies Appendix B for Building

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (Is) 1.0
 Seismic (Ie) 1.0

Live Loads: Roof 20 psf
 Mezzanine psf
 Floor 100 psf

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 120 mph (ASCE-7)
 Exposure Category C

SEISMIC DESIGN CATEGORY:

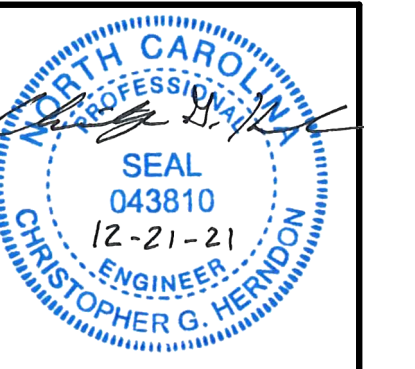
Provide the following Seismic Design Parameters:
 Risk Category (Table 1604.5) A B C D
 Spectral Response Acceleration S_s 20.5 %g S_i 9.3 %g
 Site Classification (ASCE 7) A B C D E F
 Data Source: Field Test Presumptive Historical Data
Basic structural system Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
 Simplified Equivalent Lateral Force Dynamic
Analysis Procedure: Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) _____ psf
 Presumptive Bearing capacity 2,000 psf
 Pile size, type, and capacity _____

2018 NC Administrative Code and Policies Appendix B for Building



Draper Aden Associates
Engineering • Surveying • Environmental Services

114 Edinburg South Drive, Suite 200 • Richmond, VA
 819-827-0864, Fax: 819-839-8138 • Blacksburg, VA
 www.daa.com • Charlottesville, VA
 NC Firm License # F-1429

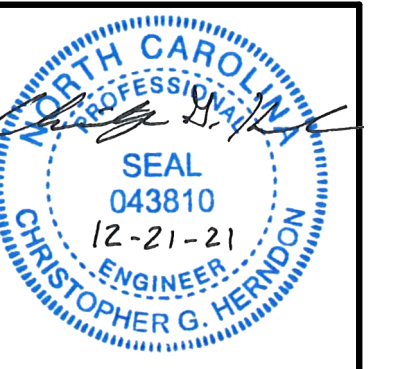
• Hampton Roads, VA
 • Fayetteville, NC
 • Northern Virginia
 • Virginia Beach, VA

APPENDIX B
Lexington Plantation Pool House
 400 Centennial Parkway Cameron, NC 28326

REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: CGH
 DRAWN BY: CGH
 CHECKED BY: DWS
 SCALE: _____
 DATE: 12/21/21
 PROJECT NUMBER: 2101033

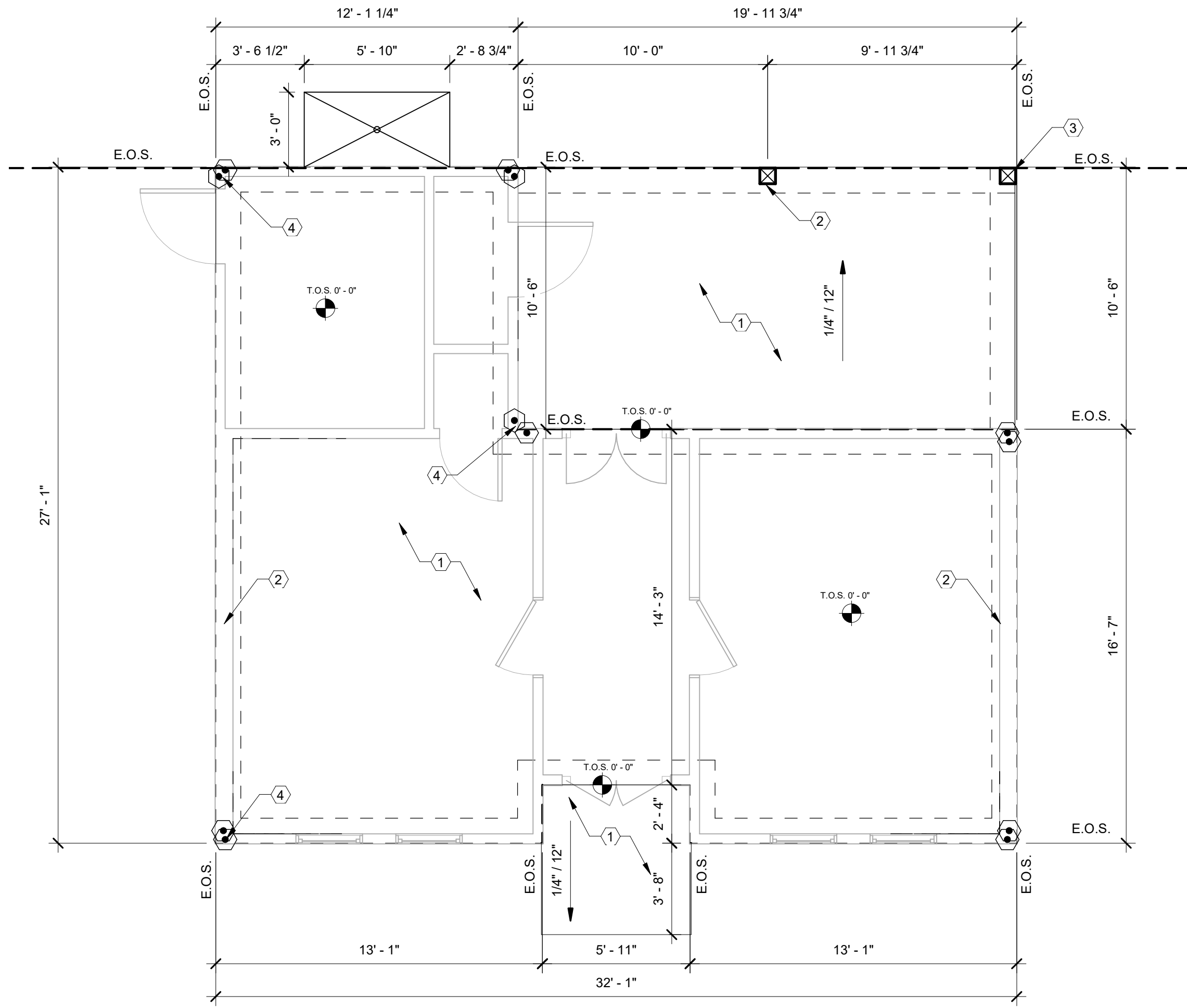
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 Engineering • Surveying • Environmental Services
 114 Edinborough South Drive, Suite 200 • Richmond, VA
 919-827-0684 • Fax: 919-539-8138 • www.daa.com
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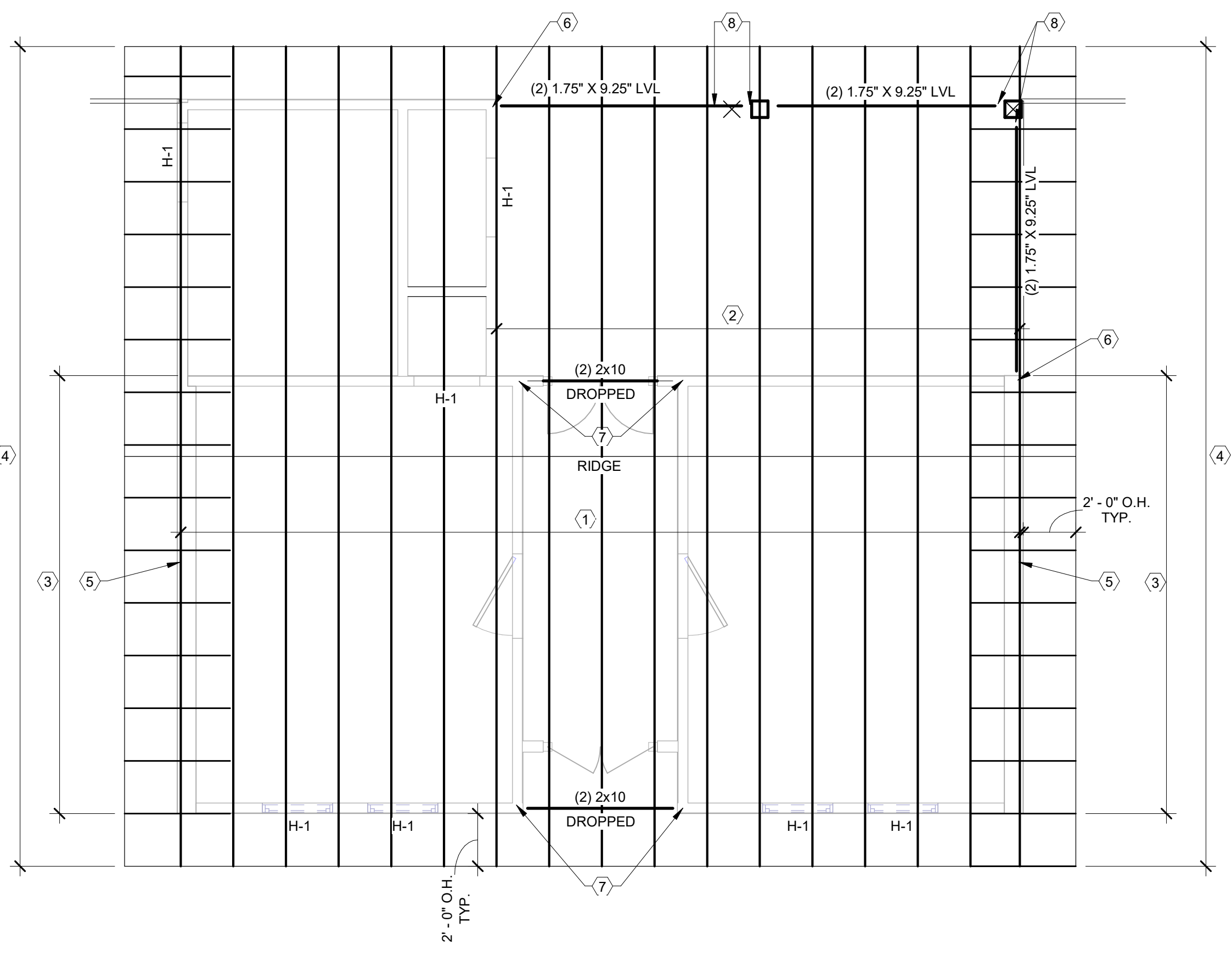
• Hampton Roads, VA
 • Fayetteville, NC
 • Blacksburg, VA
 • Northern Virginia
 • Charlottesville, VA
 • Virginia Beach, VA

FOUNDATION & FRAMING PLANS
 Lexington Plantation Pool House
 400 Centennial Parkway Cameron, NC 28326



FOUNDATION PLAN

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



FRAMING PLAN

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

FOUNDATION PLAN GENERAL NOTES:

- SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
- SEE ARCH. PLAN FOR TYPICAL WALL SECTION
- CONTRACTOR TO COORDINATE ALL DIMENSIONS, ELEVATIONS AND OPENINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO EXECUTING WORK.
- REFER TO GEOTECHNICAL REPORT FOR ALL SUBGRADE MATERIAL REQUIREMENTS.
- TYPICAL PERIMETER FOUNDATION CONSTRUCTION IS 18" DEEP BY 12" WIDE TURNDOWN SLAB REINFORCED W/ (2) #5 CONT., BOT..
- TYPICAL ANCHOR BOLT OF EXT. STUD WALL SILL PLATE: 5/8" DIA. ANCHOR BOLTS @ 6'-0"o.c. MAX. w/ MIN. 9" EMBEDMENT.
- TYPICAL LAP SPLICE FOR REBAR: 48 BAR DIAMETERS.

FOUNDATION PLAN KEYNOTES:

- 4" CONC. SLAB ON GRADE REINFORCED W/ 6X8-W1.4XW1.4 MID-DEPTH OVER 10 MIL VAPOR BARRIER ON 4" COMPACTED POROUS FILL.
- TURNDOWN SLAB AT PERIMETER, TYP. SEE "FOUNDATION PLAN GENERAL NOTES"
- 8X8 PRESSURE TREATED POST, TYP. SECURE TO CONC. SLAB W/ SIMPSON CPT88Z CONCEALED POST TIE W/ (2) 1/2"o HOT DIP GALVANIZED THREADED RODS W/ HILTI HIT-HY200 ADHESIVE, MIN. EMBED 6".
- SYMBOL DENOTES HOLD DOWN AT THIS LOCATION, TYP.. SEE "SHERWALL NOTE" THIS SHEET FOR MORE INFO
- OUTDOOR SHOWER, SLOPE TO DRAIN ALL SIDES, TYP.

NOTE:
 LATERAL BRACING SYSTEM - LIGHT FRAME WOOD WALLS WITH WOOD SHEAR PANELS

SHERWALL NOTE:
 ALL EXTERIOR WALLS TO BE CONSTRUCTED THUS:
 WALL STUDS & WALL SHEATHING PER "DESIGN ITEMS" THIS SHEET.
 5/8" DIA. ANCHOR BOLTS W/ 1/4"x3"x3" PLATE WASHERS TO BE INSTALLED @ 6'-0"o.c. (MAX.) & WITHIN 1'-0" (MAX.) FROM CORNERS & SILL PLATE SPLICE LOCATIONS.
 INSTALL (1) HDU2-SDS2.5 W/ DOUBLE STUD @ LOCATIONS INDICATED ON PLAN THUS:
 AT HOLD DOWN LOCATIONS, SECURE W/ 5/8" DIA. THREADED RODS W/ HILTI HIT-HY200 ADHESIVE W/ 9" EMBEDMENT INTO TURNDOWN SLAB.

FRAMING PLAN GENERAL NOTES:

- SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
- SEE ARCH. PLAN FOR TYPICAL WALL SECTION
- PROVIDE SOLID BLOCKING BETWEEN TRUSSES AT BEARING LOCATIONS @ 4'-0" O.C. (MAX), TYP.
- BRACE TOP OF ALL INTERIOR STUD WALLS TO STRUCTURE ABOVE.
- ALL WOOD IN CONTACT W/ CONCRETE OR EXPOSED TO WEATHER TO BE TREATED.
- COORDINATE BRIDGING REQUIREMENTS FOR PRE-ENGINEERED FRAMING W/ MANUFACTURER.

DESIGN ITEMS:

EXTERIOR WALLS:	2x4 STUDS @ 16"o.c. (MAX), U.N.O.
EXTERIOR WALL SHEATHING:	7/16" PLYWOOD SHEATHING (1-SIDED)
FASTENING:	8d NAILS @ 6"o.c. ALONG PANEL EDGES @ 12"o.c. AT INTERMEDIATE SUPPORTS
ROOF SHEATHING:	1/2" PLYWOOD
FASTENING:	8d NAILS @ 6"o.c. ALONG PANEL EDGES @ 12"o.c. AT INTERMEDIATE SUPPORTS

FRAMING PLAN KEYNOTES:

- PRE-ENGINEERED WOOD ROOF TRUSSES @ 2'-0" O.C. (MAX), TYP., U.N.O.
- ROOF TRUSSES BEAR ON WALL/BEAM BELOW, TYP. @ THIS LOCATION ONLY. PROVIDE FULL HEIGHT TRUSS BLOCKS PER MANUF. @ 2'-0" O.C. BTWN. TRUSSES TO TRANSFER LOAD TO SHEARWALL BELOW, TYP.
- 2X8 STUDS @ 1'-4" O.C. (MAX), TYP.
- 2X4 OUTRIGGERS @ 2'-0" O.C. (MAX), TYP.
- STEP DOWN GABLE END TRUSS TO ALLOW FOR 2X4 OUTRIGGERS
- (3) 2X STUDS UNDER PORCH BAND BRG. STUD SIZE TO MATCH WALL STUDS AT BEARING LOCATIONS
- (2) 2X4 STUDS AT BEAM BEARING LOCATION
- SECURE BEAMS TO COL. W/ SIMPSON HUC410 HANGERS, TYP.

ROOF CONNECTION SCHEDULE

CONDITION	CONNECTION REQ'D
ROOF TRUSSES @ 2'-0" O.C.	H2.5A
2X4 OUTRIGGERS TO STEP DOWN GABLE END TRUSS	H2.5A
2X4 OUTRIGGERS TO ROOF TRUSS	A35 CLIP

NOTES:
 - ALL HANGERS, STRAPS & TIES REFERENCED IN TABLE ABOVE ARE STANDARD CONNECTORS MANUFACTURED BY SIMPSON STRONG TIE. ALTERNATIVE HANGERS ARE TO BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION.
 - ALL CONNECTORS & FASTENERS EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL, TYP.

WOOD HEADER SCHEDULE

HEADER MARK	HEADER DESCRIPTION	SUPPORT EA. END
H-1	(2) 2X6	(2) JACK STUDS

NOTES:
 - ALL HEADERS TO BEAR ON A MIN. OF (2) JACK STUDS EA. END
 - FOR OPENINGS IN EXTERIOR WALLS UNDER 4'-0" USE (2) FULL HEIGHT STUDS EA. END
 - PROVIDE 2X4 PLATE TOP & BOT OF ALL HEADERS, TYP.
 - INSTALL 1/2" SHEATHING SPACER BETWEEN HEADER PLIES AS REQ'D, TYP.

ROOF TRUSSES TO BE PRE-ENGINEERED WOOD TRUSSES SPACED @ 2'-0"o.c. (MAX.) UNLESS NOTED OTHERWISE. SEE GENERAL STRUCTURAL NOTES FOR OTHER REQ. (TYP.)

NOTE:
 FINAL SIGNED AND SEALED TRUSS CALCULATIONS TO BE REVIEWED BY S.E.R. PRIOR TO FABRICATION FOR COORDINATION W/ BUILDING STRUCTURAL REQUIREMENTS.

NOTE:
 PROVIDE PERMANENT TRUSS BOTTOM CHORD BRACING: GYPSUM BOARD SHEATHING

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: CGH
 DRAWN BY: CGH
 CHECKED BY: DWS
 SCALE: As indicated
 DATE: 12/21/21
 PROJECT NUMBER: 2101033

S1.0



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 SUBSTITUTED FOR COPPER.

SANITARY SEWER LINES SHALL BE PVC.

PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI.

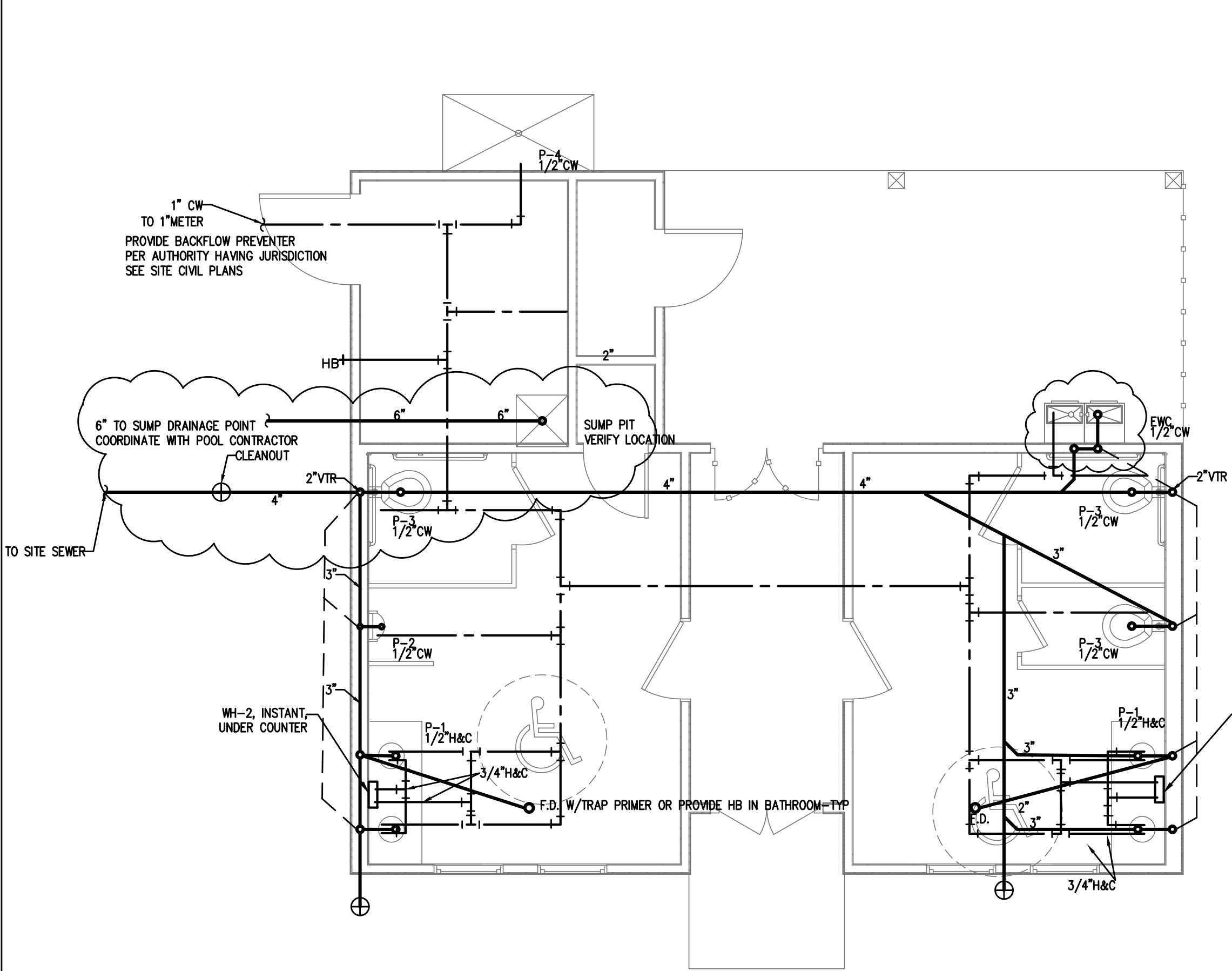
GAS PIPING WILL BE SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE IRON SCREW-TYPE FITTINGS.

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.

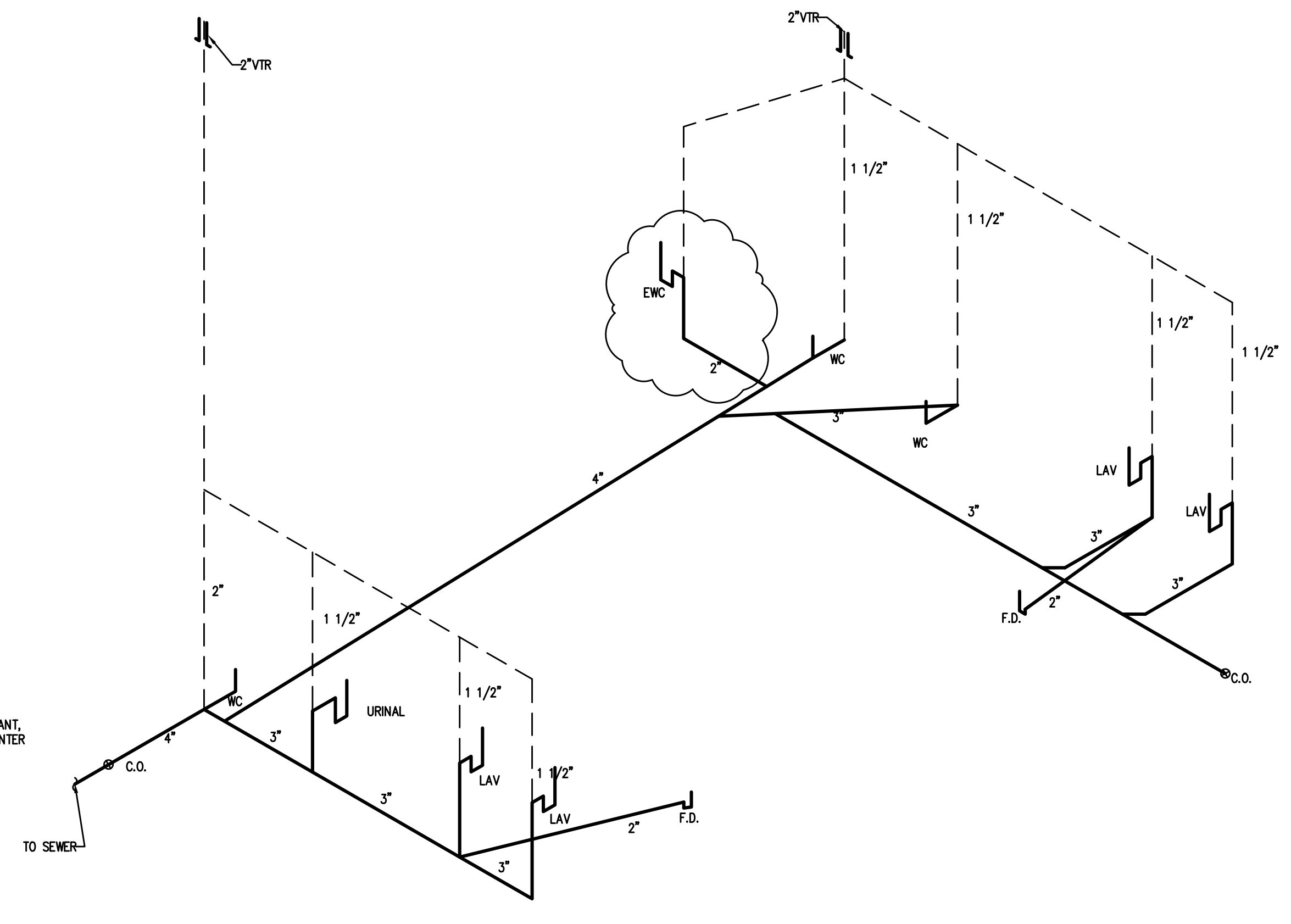
LOCATION OF UTILITIES (WASTE AND WATER LINES, MANHOLES ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED.

ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS.

2 PLUMBING NOTES
N.T.S.

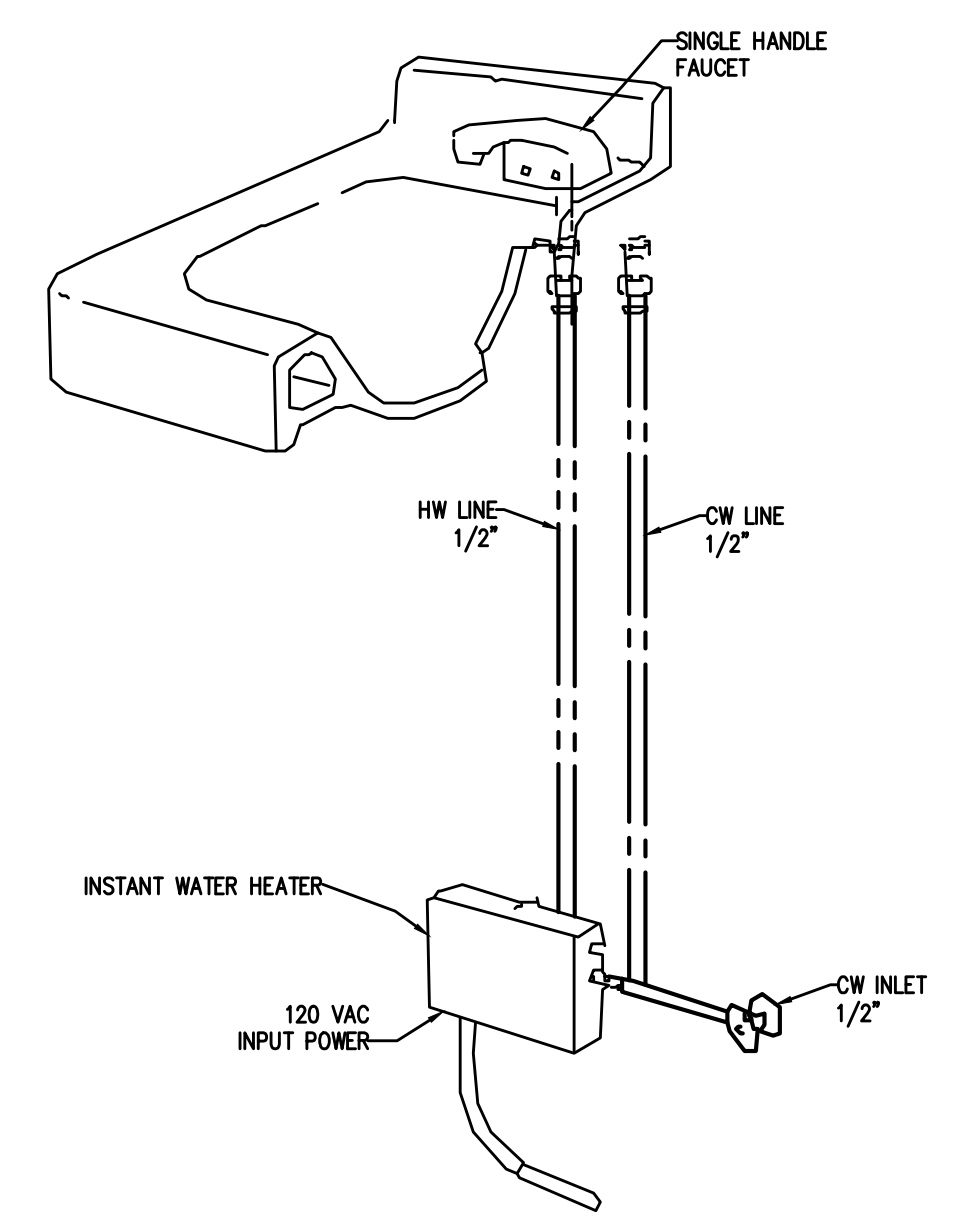


1 PLUMBING PLAN
1/4"=1'-0"



4 WASTE RISER
N.T.S.

SYMBOL	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	ACCESSORIES	SUPPLY	WASTE	VENT	REMARKS
P-1	AMERICAN STD.	0490.011	OVAL LAVATORY, COUNTER TOP	DELTA 2507LF-HDF TWO HANDLE METERING FAUCET	1/2" H.W./C.W.	2"	1-1/2"	PROVIDE TRUEBRO LAV GUARD 2 UNDERSINK PIPING COVERS
P-2	AMERICAN STD.	6541.132	URINAL, WALL-TYPE	SLOAN ROYAL 186-1, FLUSH VALVE	1/2" C.W.	2"	1-1/2"	
P-3	AMERICAN STD.	270AB.001.020	WATER CLOSET (FLUSH TANK), FLOOR-TYPE ADA	PROVIDE COMPATIBLE TOILET SEAT	1/2" H.W./C.W.	3"	1-1/2"	
P-4	AQUAMASTER	PM-750 ADA	STAINLESS STEEL WALL MOUNTED POOL SHOWER W/ SLOW CLOSING PUSH BUTTON VALVE		1/2" C.W.	-	-	
WH-1,2	EEMAX OR EQ.	SP2412	TANKLESS WATER HEATER ELECTRIC, 120V, 1Ø, 2400W	-	1/2" H.W./C.W.	-	-	
EWC	ELKAY	EZSTLBSC	WALL MOUNT BI-LEVEL ADA WATER COOLER	-	1/2" H.W./C.W.	2"	1-1/2"	



3 INSTANT WATER HEATER DETAIL
N.T.S.

Coastal Plains Engineering, P.A.
 License No: C-2050
 285 LOCKLEAR RD
 P.O. Box 1117 28572
 Wake Forest, NC 27157-1117
 Phone: 910-521-7213
 Fax: 910-521-7213
 www.coastalplainseng.com

LEXINGTON PLANTATION POOL HOUSE
 HARNETT COUNTY, NC

DRAWINGS AND THE DESIGN ARE THE PROPERTY OF THE ENGINEER. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS DECIDED OR NOT, THE DRAWINGS SHALL NOT BE USED BY THE PROJECT OWNER OR ANYONE ELSE FOR ANY OTHER PROJECT.

ADA AND LEGAL DISCLAIMER
 THIS DOCUMENT IS INTENDED TO COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). ARCHITECTS AND ENGINEERS ARE NOT LICENSED TO INTERPRET LAWS OR ONE SOURCE CONCERNING LAWS OR LEGAL MATTERS. THE OWNER SHOULD HAVE THIS DOCUMENT REVIEWED BY HIS ATTORNEY TO DETERMINE IF IT COMPLES ADA AND OTHER LAWS.

PROJECT NO: 2021-1068
 DRAWN BY: JLD
 DATE:
 REVISIONS:

SHEET NO:
P1

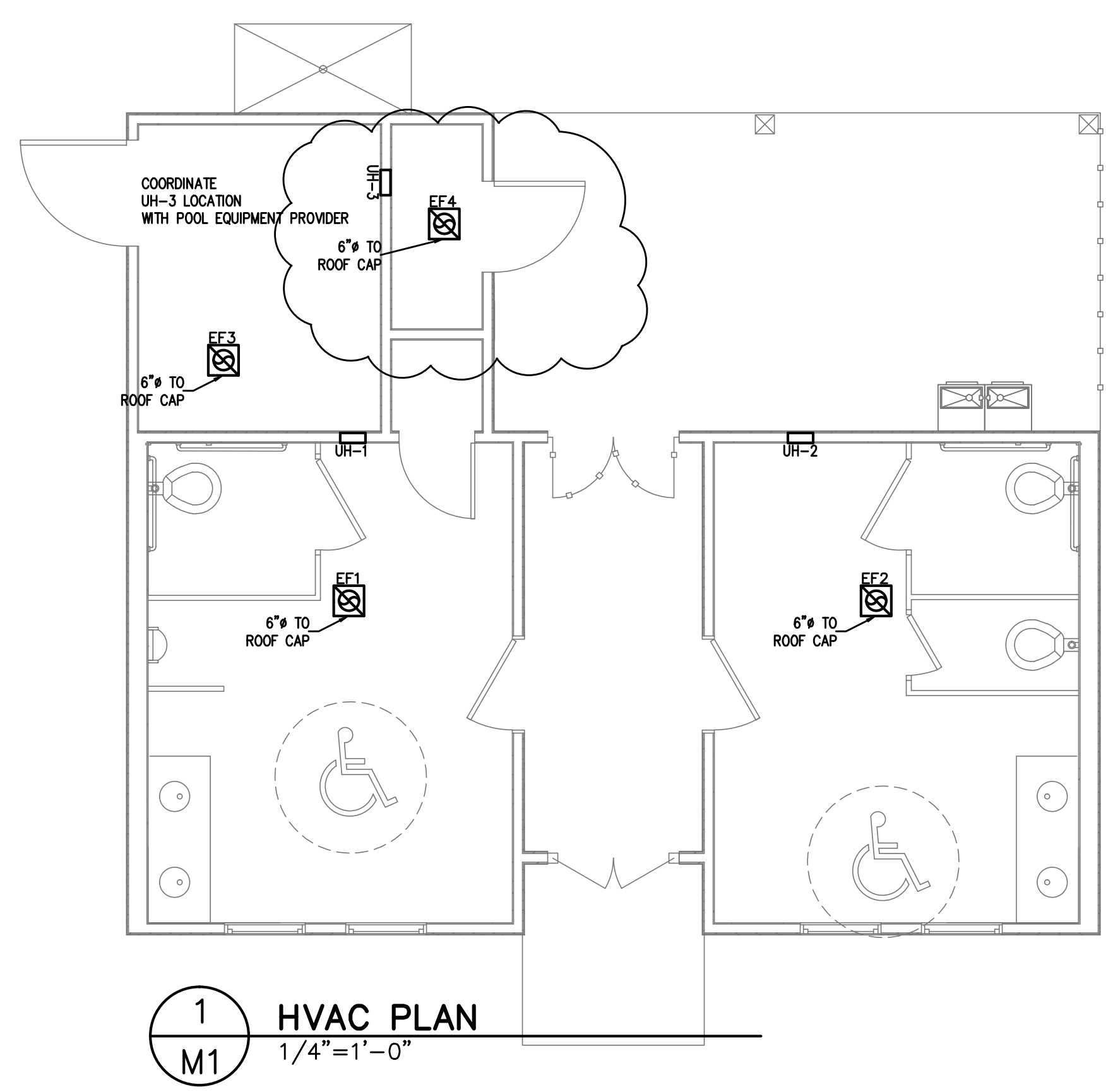


ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 NC MECHANICAL CODE.
 ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA. DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED. ALL SUPPLY AND RETURN DUCTS AND FLEX SHALL BE INSULATED WITH MIN. R-6.0 INSULATION UNLESS OTHERWISE 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 ARCHITECT.
 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 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.

2 HVAC NOTES
 M1 N.T.S.



1 HVAC PLAN
 M1 1/4"=1'-0"

MECHANICAL DESIGN
 (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone 4A
 winter dry bulb: 18°F
 summer dry bulb: 94°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: N/A

Mechanical Spacing Conditioning System
 Binary
 Description of unit: N/A
 heating efficiency: N/A
 cooling efficiency: N/A
 size category of units: N/A

Description of units: **ELECTRIC UNIT HEATERS**
 heating efficiency: N/A
 cooling efficiency: N/A
 size category of units: N/A

Boiler
 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										
MARK	LOCATION	SERVICE	CFM	S.P.	WATTS	RPM	VOLT	PHASE	DRIVE	REMARKS
EF1	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" TO ROOF/WALL CAP
EF2										
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" TO ROOF/WALL CAP

OUTSIDE AIR CALCULATION -2018 NC MECHANICAL CODE (TABLE 403.3.1.1) $V_{bz} = R_p P_z + R_a A_z$

OCCUPANCY TYPE:		SF (Az)	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED
ELECTRIC UNIT HEATERS	POOL EQUIPMENT ROOM	61	0	0	0.12	7.32	81
	STORAGE/CHEMICALS	30	0	0	0.12	3.6	40
	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

UNIT HEATER SCHEDULE							
CAPACITIES							
UNIT NO.	FLA	UNIT VOLT	UNIT PHASE	MOCP	WIRE SIZE (DU: 75 C)	INPUT BTU	OUTPUT BTU
UH-1,2,3	12.5	120	1	20	#12	5,120	5,120

Coastal Plains Engineering, P.A.
 License No: C-2050
 295 LOCKLEAR RD
 P.O. Box 1117 28572
 Raleigh, NC 27615
 Phone: 910-821-7213
 Fax: 910-821-7213
 www.coastalplainseng.com

LEXINGTON PLANTATION POOL HOUSE
 HARNETT COUNTY NC

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PROJECT NO: 2021-006
 DRAWN BY: JLD
 DATE: _____
 REVISIONS: _____

SHEET NO:
M1



Coastal Plains Engineering, P.A.
 295 LOCUSTAR RD
 P.O. Box 1117 28572
 Raleigh, NC 27604
 Phone: 910-821-7213
 Fax: 910-821-7213
 www.coastalplainseng.com
 License No. C-3090

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PROJECT NO: 2021-1068
 DRAWN BY: JLD
 DATE:
 REVISIONS:

SHEET NO:
E1

CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR SERVICE. A COMPLETE AND WORKING SYSTEM IS REQUIRED FOR COMPLIANCE WITH THESE DOCUMENTS. DETERMINE THE POINT OF CONNECTION TO THE UTILITY WITH THE UTILITY REPRESENTATIVE AND PROVIDE ACCORDINGLY FOR A COMPLETE WORKING SYSTEM.

WIRE AND CABLE SHALL BE INSULATED, TYPE THHN OR THWN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AWG AND LARGER MAY BE STRANDED. CONDUCTORS SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED. NO ROMEX PERMITTED.

EMT SHALL BE GALVANIZED STEEL TUBING, 1/2-INCH MINIMUM SIZE, EQUAL TO ELECTRUNITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSON FITTINGS.

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM NON-METALLIC, HEAVY DUTY, HIGH IMPACT, POLYVINYLCHLORIDE (PVC), TYPE 1 WILL BE USED FOR CONCRETE ENCASMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2-INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH 72 INCHES FOR LIGHTING AND 36" FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUDTIGHT OR WATERTIGHT WITH PVC JACKET WHERE USED IN DAMP, WET OR OUTSIDE AREAS, AND LIQUDTIGHT OR WATERTIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TEL. OUTLETS TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 2 INCHES BETWEEN RECEPTACLES AND TEL. OUTLETS.

ALL CONDUCTOR SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA.

CONTRACTOR SHALL ALIGN FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. AT NO TIME WILL AN IONIZATION DETECTOR BE LOCATED WITHIN 3'-0" OF A SUPPLY OR RETURN AIR GRILLE.

CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS AND CONDUIT FOR THIS PROJECT THE CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT WHICH WILL ACTUALLY BE INSTALLED, RECOMPUTING WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

ALL CONDUIT TERMINATING IN THE CEILING CAVITIES IS TO BE LABELED.

ALL CONDUIT SHALL BE COLOR CODED WITH 1/2" WIDE TAPE, 10'-0" ON CENTER IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER, PRIOR TO INSTALLATION. FOR USE WITH ACTUAL EQUIPMENT.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER/ARCHITECT. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER/ARCHITECT AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE.

ALL FUSES DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.

WHERE EQUIPMENT PENETRATES EXTERIOR WALL OR ROOF THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ARCHITECT/ENGINEER.

ALL WORK IS TO BE DONE IN STRICT COMPLIANCE WITH THE LATEST VERSION OF THE NEC AND APPLICABLE STATE CODES

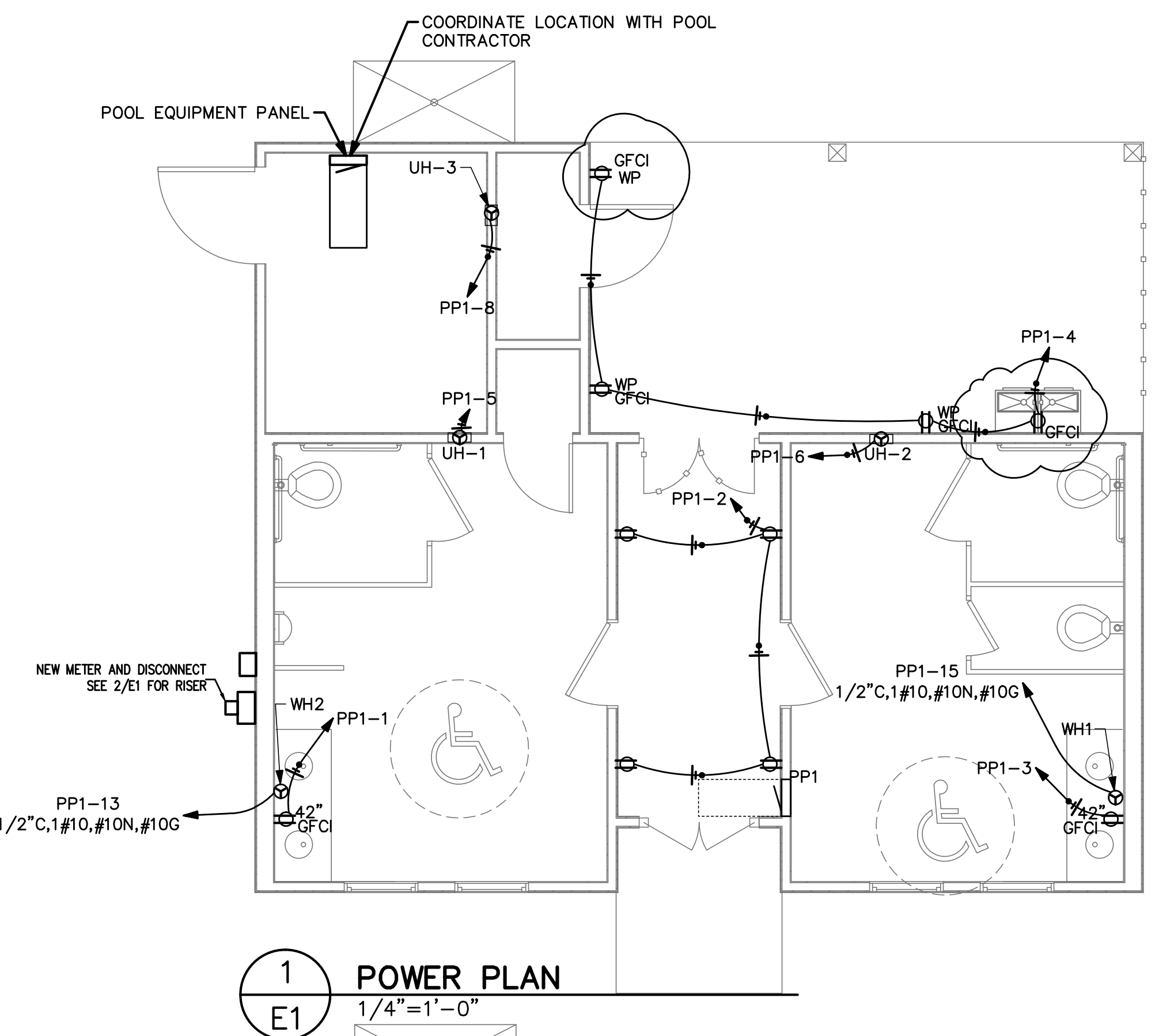
RECESSED FIXTURES INSTALLED IN RATED ASSEMBLIES SHALL BE INSTALLED WITH AN ENCLOSURE SO AS TO MAINTAIN THE RATING OF ASSEMBLY

PP1

ROOM	VOLTS 240/120V 2P 3W		AIC 22,000
MOUNTING	FLUSH	BUS AMPS 200	MAIN BKR MLO
FED FROM	UTILITY	NEUTRAL 100%	LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA	
			A	B				A	B
1	20/1	RECEPTACLE	0.18		2	20/1	RECEPTACLE	0.72	
3	20/1	RECEPTACLE		0.18	4	20/1	RECEPTACLE		0.72
5	20/1	UH-1	1.5		6	20/1	UH-2	1.5	
7	20/1	EF1, LIGHTING		0.359	8	20/1	UH-3		1.5
9	20/1	EF2, LIGHTING	0.431		10	20/1	SPACE	0	0
11	20/1	EF3, EF4, LIGHTING		0.13	12	20/1	SPACE	0	0
13	30/1	WH2	2.4		14	20/1	SPACE	0	0
15	30/1	WH1		2.4	16	20/1	SPACE	0	0
17	100/2	PANEL POOL EQUIPMENT PANEL	0	0	18	20/1	SPACE	0	0
19			0	0	20	20/1	SPACE	0	0
21	20/1	SPACE	0	0	22	20/1	SPACE	0	0
23	20/1	SPACE	0	0	24	20/1	SPACE	0	0
25	20/1	SPACE	0	0	26	20/1	SPACE	0	0
27	20/1	SPACE	0	0	28	20/1	SPACE	0	0
29	20/1	SPACE	0	0	30	20/1	SPACE	0	0
31	20/1	SPACE	0	0	32	20/1	SPACE	0	0
33	20/1	SPACE	0	0	34	20/1	SPACE	0	0
35	20/1	SPACE	0	0	36	20/1	SPACE	0	0
37	20/1	SPACE	0	0	38	20/1	SPACE	0	0
39	20/1	SPACE	0	0	40	20/1	SPACE	0	0
41	20/1	SPACE	0	0	42	20/1	SPACE	0	0

TOTAL CONNECTED KVA BY PHASE			A	B
LIGHTING	CONN KVA	CALC KVA	1.8	1.8
LARGEST MOTOR	0.479	0.598	(125%)	(50%>10)
MOTORS	0.185	0.046	(25%)	(125%)
	0.44	0.44	(100%)	
RECEPTACLES	CONN KVA	CALC KVA	4.8	6
CONTINUOUS	1.8	1.8	(50%>10)	
HEATING	4.5	4.5	(100%)	
TOTAL LOAD			13.4	
BALANCED LOAD			55.8 A	

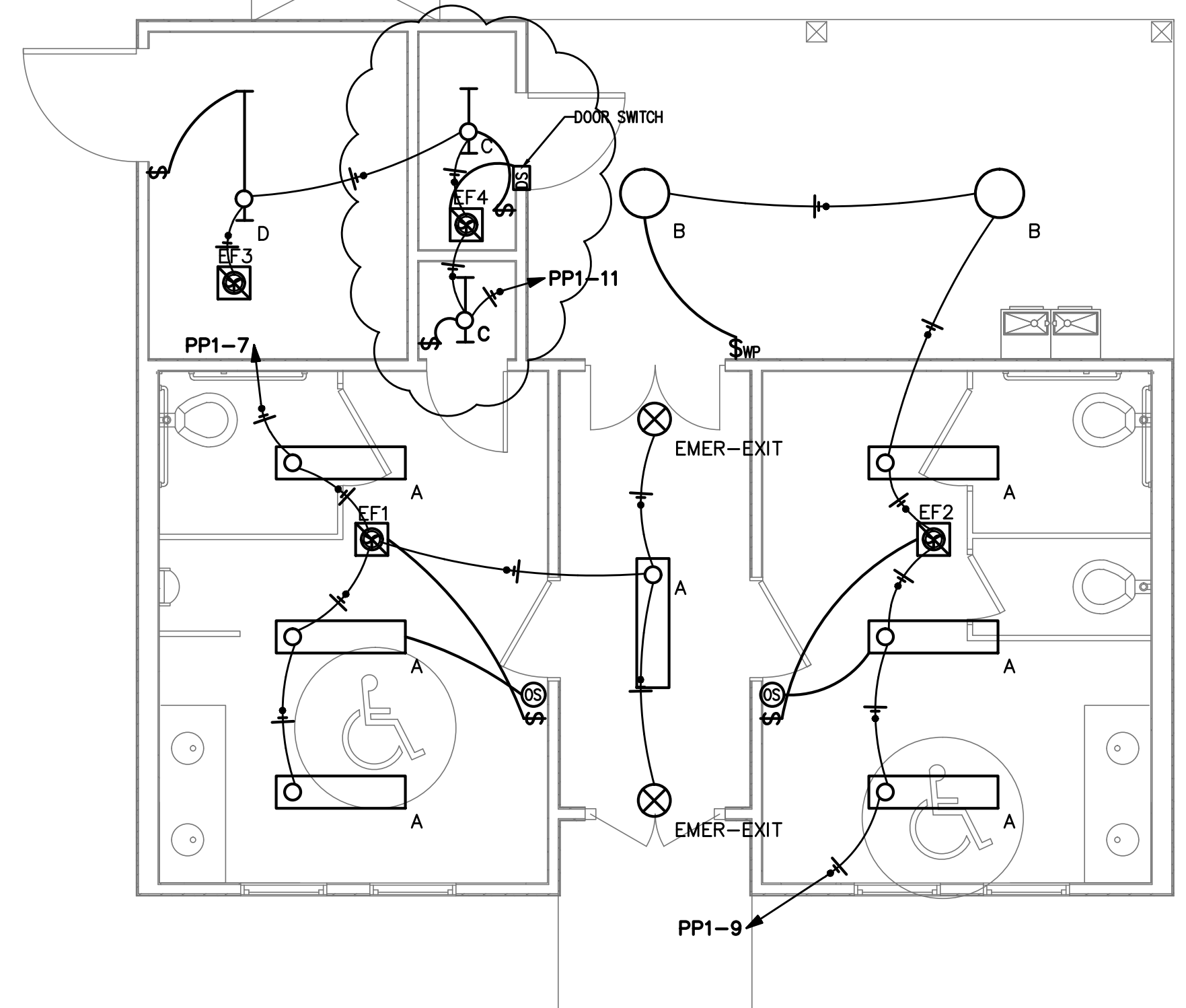


1 POWER PLAN
 1/4"=1'-0"

2 ELECTRICAL NOTES
 N.T.S.

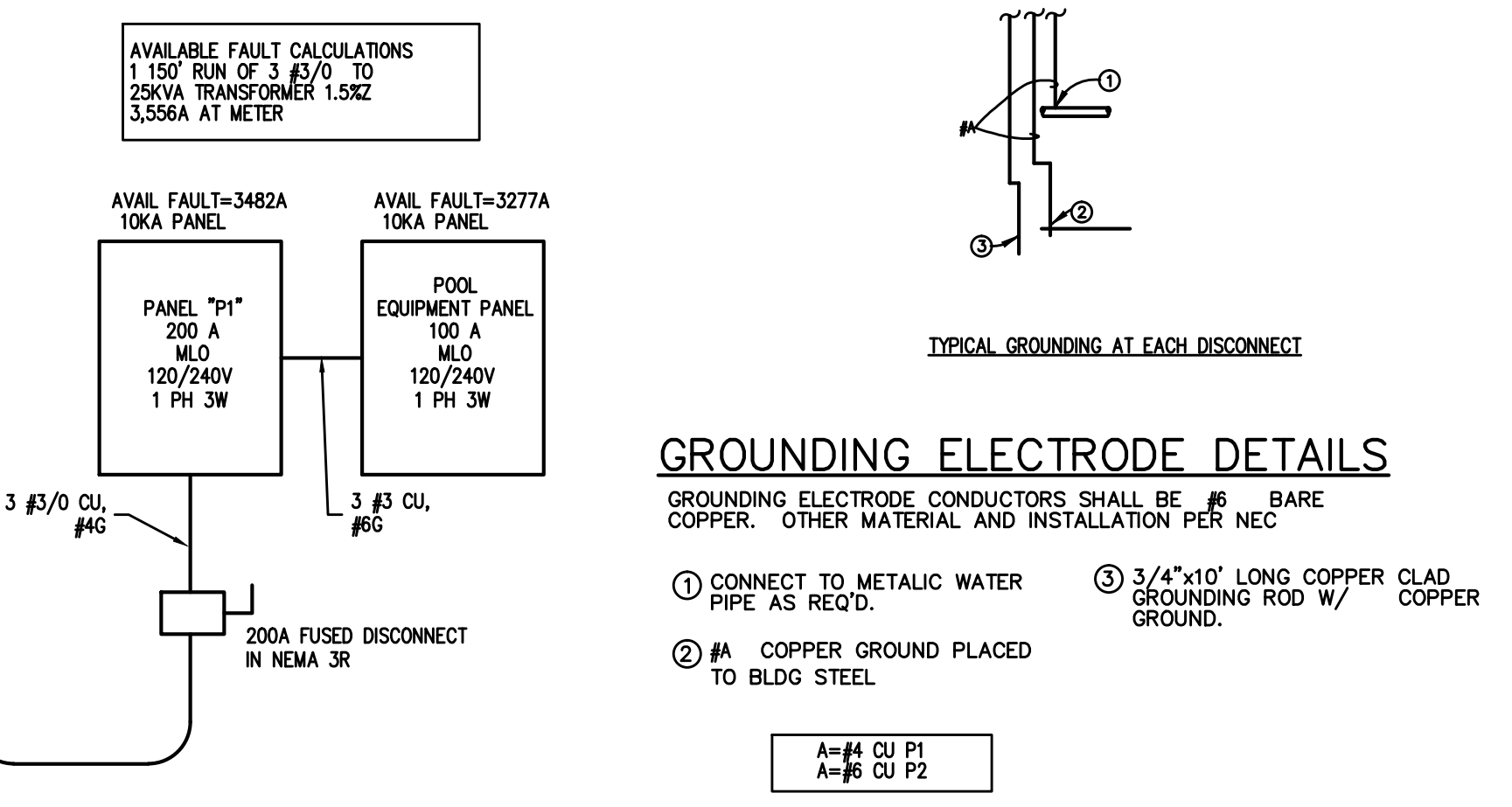
LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	LUMENS / LAMP
A	○	(1) 42W LED	1 X 4 LED WRAPAROUND FIXTURE		CEILING	COOPER LIGHTING SOLUTIONS - METALUX (FORMERLY EATON), 4WPLD4040C OR EQ	42	120V 1P 2W	4557
B	○	(1) MAX 2013W MED BASE LED BULBS	ROUND CLOSE TO CEILING FIXTURE		CEILING	PROGRESS P550042-129 OR EQ.	60	120V 1P 2W	0
C	— —	(1) 19.68W LED	2' LED STRIP LIGHT		CEILING	COOPER LIGHTING SOLUTIONS - METALUX (FORMERLY EATON), 2ST2L2040R OR EQ.	19.68	120V 1P 2W	2298
D	— —	(1) 39.09W LED	4' LED STRIP LIGHT		CEILING	COOPER LIGHTING SOLUTIONS - METALUX (FORMERLY EATON), 4ST2L4040R OR EQ.	39.09	120V 1P 2W	4433
EMER-EXIT	⊗	(1)	COMBINATION EXIT/EMERGENCY UNIT W/DUAL SEALED-BEAM REMOTE HEADS	ELECTRONIC	CEILING	LITHONIA LHQM S W 1 R 120/277 ELA NX H0606 OR EQ.	3	120V 1P 2W	0



2 LIGHTING PLAN
 1/4"=1'-0"

⊗ BRYANT (HUBBELL) MSD1000W1 OR EQUAL WALL SWITCH OCCUPANCY SENSOR DUAL (ULTRASONIC AND PASSIVE INFRARED) TECHNOLOGY 1,000 SQUARE FOOT COVERAGE 800W INCANDESCENT, 1000W FLUORESCENT AT 120V AC



3 ELECTRIC RISER
 N.T.S.

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:
 Energy Code: Prescriptive Performance
 ASHRAE 90.1: Prescriptive Performance

Lighting schedule (each fixture type)
 lamp type required in fixture
 number of lamps in fixture
 ballast type used in the fixture
 number of ballasts in fixture
 total wattage per fixture
 total interior wattage specified vs. allowed (whole building or space by space)
 total exterior wattage specified vs. allowed

SEE FIXTURE SCHEDULE

546/1798
 0/500

- Additional Prescriptive Compliance**
- 506.2.1 More Efficient HVAC Equipment
 - 506.2.2 Reduced Lighting Power Density
 - 506.2.3 Energy Recovery Ventilation Systems
 - 506.2.4 Higher Efficiency Service Water Heating
 - 506.2.5 On-Site Supply of Renewable Energy
 - 506.2.6 Automatic Daylighting Control Systems