

NORTH CAROLINA BUILDING CODE SUMMARY - NC 2018 BUILDING CODE

NAME OF PROJECT: A POOL FOR LEXINGTON PLANTATION
PROJECT ADDRESS: 400 CENTENNIAL PARKWAY, CAMERON, NORTH CAROLINA
OWNER / CONTACT: VILLAGE OF LEXINGTON HOA
PHONE #: TELEPHONE: 910.484.5400
EMAIL: jamie@litleandyoung.net

DESIGN PROFESSIONALS

CONTACT: ROBERT C. EVANS, ARCHITECT
DESIGNER FIRM NAME LICENSE # TELEPHONE # EMAIL
ARCHITECTURAL ROBERT C. EVANS, ARCHITECT ROBERT C. EVANS 6530 910.624.9259 rcearch@gmail.com

BUILDING CODE DATA

2018 NC BUILDING CODE: NEW BUILDING ADDITION RENOVATION NEW POOL
2018 NC EXISTING BUILDING CODE: EXISTING: PRESCRIPTIVE REPAIR CHAPTER 14
ALTERATION: LEVEL I LEVEL II LEVEL III
CURRENT: I II III IV
PROPOSED: I II III IV

BASIC BUILDING DATA

CONSTRUCTION TYPE: I-A II-A III-A IV-A V-A I-B II-B III-B IV-B V-B
SPRINKLERS: NO PARTIAL YES NFPA 13 NFPA 13R NFPA 13D
FIRE DISTRICT: NO YES FLOOD HAZARD AREA: NO YES
BUILDING HEIGHT: FEET NUMBER OF STORES UNLIMITED PER
MEZZANINE: NO YES
HIGH RISE: NO YES CENTRAL REFERENCE SHEET # (IF PROVIDED)
FLOOD HAZARD: NO YES
SPECIAL INSPECTION REQUIRED: NO YES CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS

ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION(S): 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 COMMON I 2 I-2 COMMON I 2 I-3 COMMON I 2 3 4 5
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: N/A
INCIDENTAL USES (Table 509): N/A
SPECIAL USES (CHAPTER 4-LIST CODE SECTIONS): N/A
SPECIAL PROVISIONS (CHAPTER 5-LIST CODE SECTIONS): N/A
MIXED OCCUPANCY: NO YES SEPARATION: HR EXCEPTION:

NON-SEPARATED MIXED OCCUPANCY (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.

Table with 5 columns: STORY NO., DESCRIPTION AND USE, (A) BLDG AREA PER STORY (ACTUAL), (B) TABLE 506.2\* AREA, (C) AREA FOR OPEN SPACE INCREASE 1,5, (E) ALLOWABLE AREA OR UNLIMITED 1,3

1 - FRONTAGE AREA INCREASES FROM SECTION 506.2.
2 - UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
3 - MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORES x D (MAXIMUM 3 STORES) (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

Table with 3 columns: BUILDING HEIGHT IN FEET (TABLE 504.3), BUILDING HEIGHT IN STORIES (TABLE 504.4), CODE REFERENCE

FIRE RESISTANCE RATINGS

Table with 7 columns: 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

PERCENTAGE OF WALL OPENINGS CALCULATIONS

Table with 5 columns: WALL, FIRE SEPARATION DISTANCE FROM PROPERTY LINE(S) (R/W), DEGREE OF OPENINGS PROTECTION TABLE 705.8, PERCENTAGE OF ALLOWABLE AREA, ACTUAL PERCENTAGE OF OPENING ON PLANS

LIFE SAFETY SYSTEMS

EMERGENCY LIGHTING: NO YES SMOKE DETECTION SYSTEM: NO YES
EXIT SIGNS: NO YES CARBON MONO. DETECTION: NO YES
FIRE ALARM: NO YES PANIC HARDWARE: NO YES

LIFE SAFETY PLAN AS
Check items that are applicable to this project:
Fire and/or smoke retard wall locations (Chapter 7)
Assumed and real property line locations
Exterior wall opening area with respect to assumed property lines (705.8)

Occupancy types for each area as it relates to occupant load calculations (Table 1004.1.1)
Occupant loads for each area
Exit access travel distance (1017)
Common path of travel distance (1008.2.1 & 1008.3.2(1))
Dead end lengths (1024)
Clear exit width 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
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 (407.5)
Note any code exceptions or table notes that may have been utilized regarding the items above

EXIT REQUIREMENTS

Table with 4 columns: FLOOR, ROOM OR SPACE DESIGNATION, MINIMUM NUMBER OF EXITS REQUIRED SHOWN ON PLANS, TRAVEL DISTANCE ALLOWABLE TRAVEL DISTANCE (TABLE 1004.2.4) ACTUAL TRAVEL DISTANCE SHOWN ON PLANS, ARRANGEMENT MEANS OF EGRESS 1,2 (SECTION 1004.1) REQUIRED ACTUAL DISTANCE BETWEEN EXIT DOORS SHOWN ON PLANS

1 Corridor dead ends (Section 1004.3.2.3)
2 Single exits (Table 1005.2.2)
3 Common path of travel (Section 1004.2.5)

ACCESSIBLE DWELLING UNITS (SECTION 1107)

Table with 7 columns: 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

ACCESSIBLE PARKING (SECTION 1106) N/A - SEE CIVIL PLANS

Table with 6 columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES REQUIRED PROVIDED, # OF ACCESSIBLE SPACES PROVIDED (REGULAR WITH 5' ACCESS AISLE, 132" ACCESS AISLE, 8' ACCESS AISLE), TOTAL # ACCESSIBLE PROVIDED

PLUMBING FIXTURE REQUIREMENTS N/A - SEE BUILDING PLANS

Table with 10 columns: USE, WATERCLOSETS, URINALS, LAVATORIES, SHOWERS/TUBS, DRINKING FOUNTAINS, NOTES & EXCEPTIONS

SPECIAL APPROVALS N/A

(Describe special approvals from local jurisdictions, County of State Department of Health, NC Department of Insurance, International Code Council, etc.)

ENERGY SUMMARY N/A

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: NO YES UNKNOWN
EXEMPT BUILDING: NO YES (CODE OR STATUTORY REF.)
CLIMATE ZONE: 3A 4A 5A
METHOD OF COMPLIANCE: ENERGY CODE: PERFORMANCE PRESCRIPTIVE
ASHRAE 90.1: PERFORMANCE PRESCRIPTIVE

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)

ROOF/CEILING ASSEMBLY: DESCRIPTION OF ASSEMBLY: U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION: SKYLIGHTS IN EACH ASSEMBLY: U-VALUE OF SKYLIGHT: TOTAL SQ. FT. OF SKYLIGHTS IN EACH ASSEMBLY:
EXTERIOR WALLS: DESCRIPTION OF ASSEMBLY: U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION: OPENINGS: U-VALUE OF ASSEMBLY: SOLAR HEAT GAIN COEFFICIENT: PROJECTION FACTOR: DOOR R-VALUE:
WALLS BELOW GRADE: DESCRIPTION OF ASSEMBLY: U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION:
FLOORS OVER UNCONDITIONED SPACE: DESCRIPTION OF ASSEMBLY: U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION:
FLOORS SLAB ON GRADE: DESCRIPTION OF ASSEMBLY: U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION: HORIZONTAL/VERTICAL REQUIREMENT: SLAB HEATED: YES NO

STRUCTURAL DESIGN N/A

DESIGN LOADS: IMPORTANCE FACTORS: SNOW SEISMIC
LIVE LOADS: ROOF MEZZANINE FLOOR
GROUND SNOW LOADS: psf
WIND LOADS: BASIC WIND SPEED mph (ASCE-7) EXPOSURE CATEGORY

SEISMIC DESIGN CATEGORY: A B C D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS: RISK CATEGORY (Table 1604.5): 1 2 3 4
SPECTRAL RESPONSE ACCELERATION: Sms: %g Sm1: %g
SITE CLASSIFICATION: A B C D E F
DATA SOURCE: FIELD TEST PRESUMPTIVE HISTORICAL DATA
BASIC STRUCTURAL SYSTEM: BEARING WALL BEARING WALL DUAL w/ SPECIAL MOMENT FRAME BUILDING FRAME DUAL w/ INTERMEDIATE R/C OR SPECIAL STEEL MOMENT FRAME INVERTED PENDULUM
ANALYSIS PROCEDURE: SIMPLIFIED EQUIVALENT LATERAL FORCE DYNAMIC
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED: YES NO

LATERAL DESIGN CONTROL: EARTHQUAKE WIND

SOIL BEARING CAPACITY: FIELD TEST: psf PRESUMPTIVE BEARING CAPACITY: psf
FILE SIZE, TYPE AND CAPACITY: psf

SPECIAL INSPECTIONS CHAPTER 17 N/A

SPECIAL INSPECTIONS SHALL BE CONDUCTED ON ALL PROJECTS THAT FALL WITHIN BUILDING CATEGORIES AND/OR CONTAIN ELEMENTS SUBJECT TO SPECIAL INSPECTIONS AS PRESCRIBED BY REVISED SECTION 1704.
To schedule the required preconstruction meeting with the City of Raleigh please call 807-5111
List whom will inspect the required special inspections
Fabricator of load bearing components -
Soil tests -
Concrete, caissons, piles, piers, precast -
Post tension concrete -
Modular construction -
Steel and connections, welds, bolts, anchors -
Fire spray tests -
Smoke control -
Seismic, wind designs, Quality Assurance -
Retaining wall -
Masonry -
Wood -
Alternate Methods -
EFIS -
Other (describe) -
Other (describe) -
Owner or agent -

ELECTRICAL SUMMARY N/A

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Prescriptive Performance Energy Cost Budget
Provide a standard riser diagram which indicates designated points for check metering.
Provide a standard panel schedule description which identifies different end use loads.
Lighting schedule
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
Total exterior wattage specified vs. allowed
Equipment schedules with motors (not used for mechanical systems)
Motor horsepower
Number of phases
Minimum efficiency
Motor type
# of poles



MECHANICAL SUMMARY N/A

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Method of Compliance: Prescriptive Performance Energy Cost Budget
THERMAL ZONE
Exterior design conditions
Winter dry bulb
Summer dry bulb
Interior design conditions
Winter dry bulb
Summer dry bulb
Relative humidity
BUILDING HEATING LOAD
BUILDING COOLING LOAD
MECHANICAL SPACING CONDITIONING SYSTEM
Unitary
Description of unit
Heating efficiency
Cooling efficiency
Heat output of unit
Cooling output of unit
Boiler
Total boiler output. If oversized, state reason.
Total chiller capacity. If oversized, state reason.
LIST EQUIPMENT EFFICIENCIES
EQUIPMENT SCHEDULES WITH MOTORS (mechanical systems)
Motor horsepower
Number of phases
Minimum efficiency
Motor type
# of poles

SHELL VARIABLE FORM N/A

Check each applicable line to match scope of work. Edit as necessary to provide clear detail of installation.
MECHANICAL:
No work
Equipment set with without power
Gas line
Trunk line installed with without outlets
Install complete operational system
Other
PLUMBING:
No work
Install water service and sewer
Install complete plumbing system
Install building drain and water distribution main with without branches
Other
SPRINKLER:
Install complete plumbing system
BUILDING:
Install slab partial complete
Install interior partitioning partial complete
Install demising walls
Install interior partitioning partial complete
Install ceilings
White box (additional interior completion permits are required for Certificate of Occupancy and power)
Other
ELECTRICAL:
House panel (CONNECTING TO)
Service laterals to meter centers/panels located on buildings
Demise wall and ceilings only
Conduit, duct, raceway, in slab
Power and lighting circuits to "J" Box
Install light fixtures
Install Heat/AC Elevator Generator Parking lot lighting
Install complete system
Other
Please Provide full information on any Alternative Methods and Means incorporated into the design of this project. Provide specific details and incorporate into plan submittal any supporting documents or agreement letters.

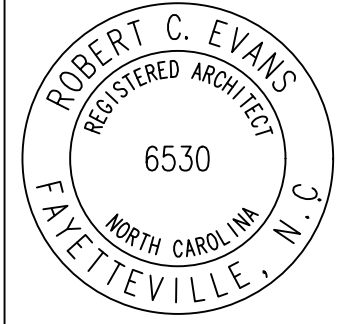
WALL LEGENDS N/A

FIRE PARTITIONS 709 FIRE WALLS 706 FIRE BARRIERS 707
SMOKE PARTITIONS 711 SMOKE BARRIERS 710 SHAFT ENCLOSURE 708

OCCUPANT CONTENT

POOL 1,200 sf / 50 = 24 PERSONS
DECK 3,184 sf / 15 = 212 PERSONS
TOTAL OCCUPANT CONTENT 236 PERSONS

Robert Charles Evans
REGISTERED ARCHITECT
6530
FAYETTEVILLE, NC
545 FRANK STREET, FAYETTEVILLE, NORTH CAROLINA 28403



09.06.22

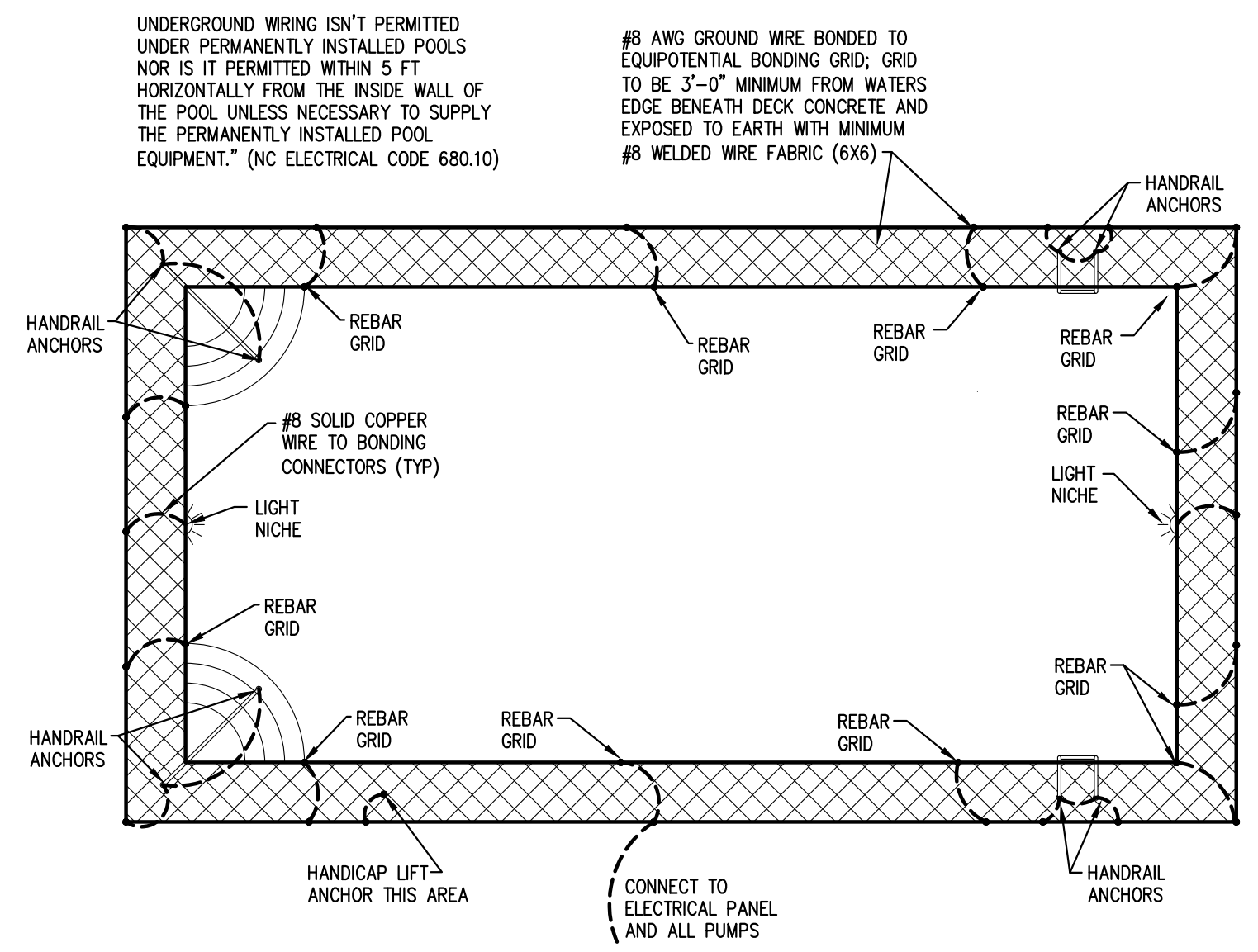
OWNERS: VILLAGE OF LEXINGTON HOA
LOCATION: LEXINGTON PLANTATION
400 CENTENNIAL PARKWAY
CAMERON, NC
SCALE: AS SHOWN
DATE: September 6, 2022

SHEET NO:

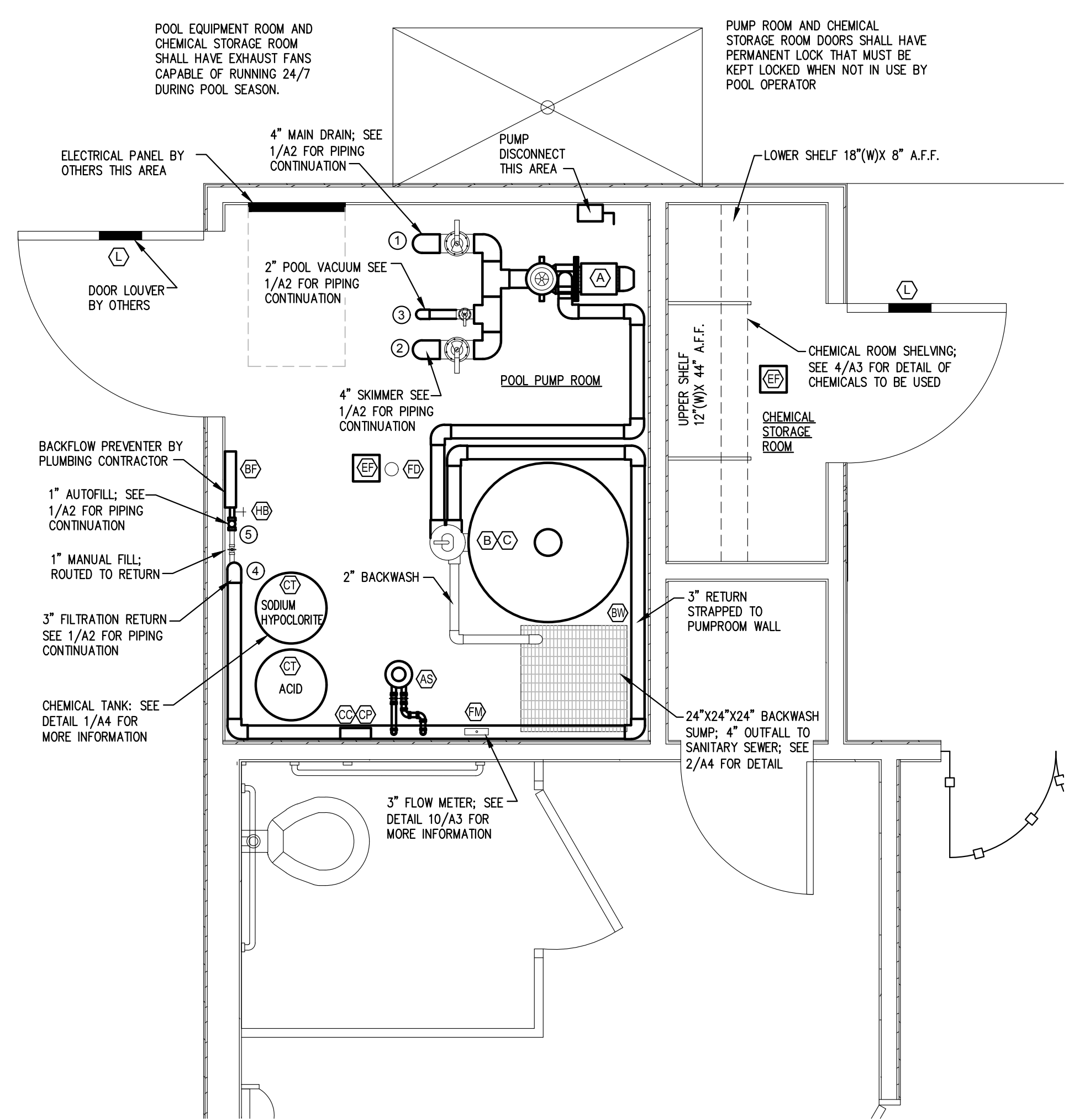




ELECTRICAL SCHEDULE						
ITEM	QTY	HP	WATTS	AMPS	VOLT	PHASE
POOL PUMP	1	3.0	3840	16	230	1Ø
LIGHTING	2	N/A	500 EQUIV.	-	120	
CHEMICAL SYSTEM PUMP	2	N/A	60	-	120AC/12VDC	
H/C LIFT	1	N/A	-	-	24DC	
H/C LIFT BATTERY CHARGER	1	N/A	-	-	120AC/24VDC	



3 EQUIPOTENTIAL BONDING  
 A2 SCALE: 1/8" = 1'-0"



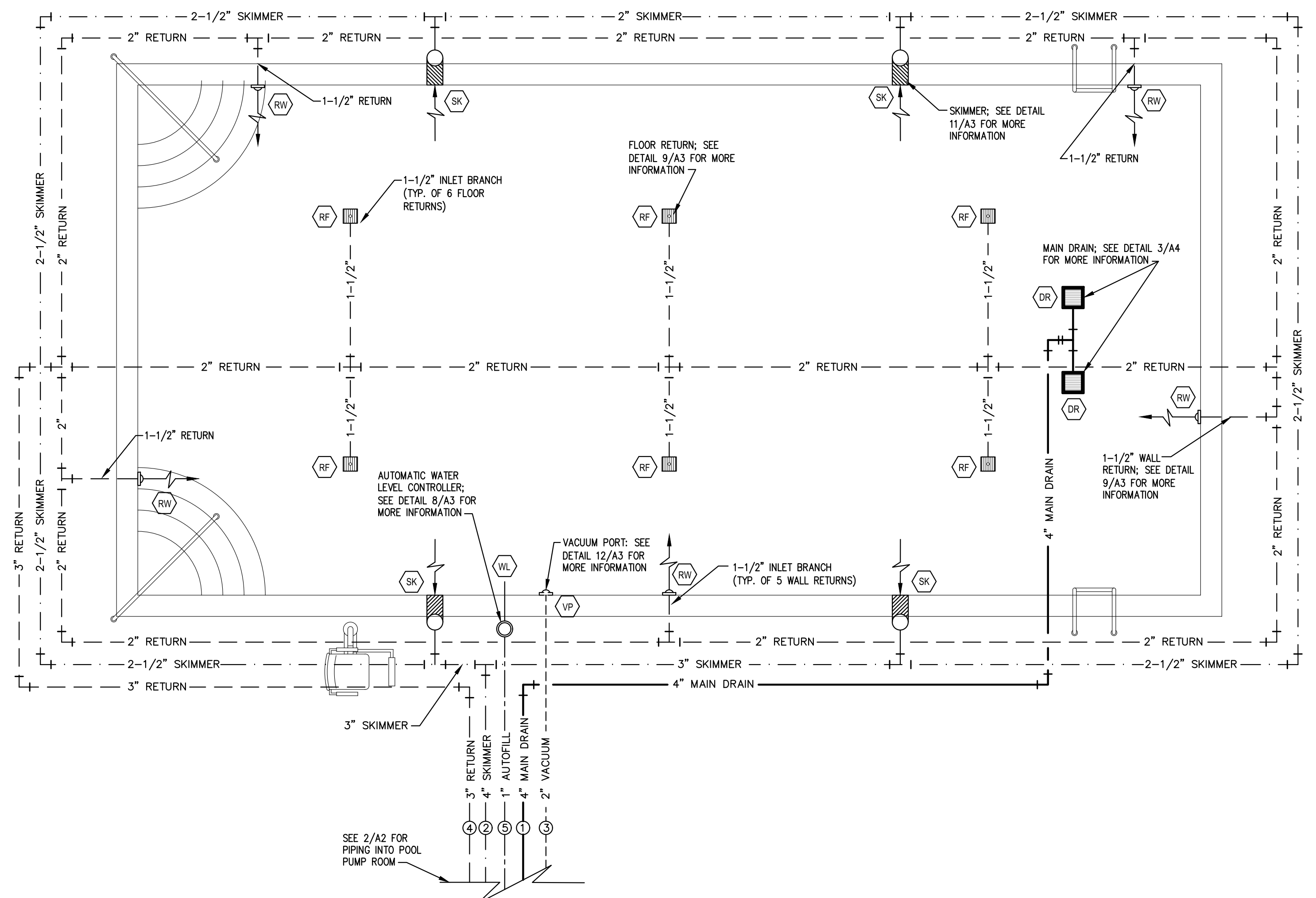
**POOL PUMP ROOM EQUIPMENT KEY**

TAG	DESCRIPTION
A	3.0 HP PENTAIR INTELLIFLO VSF CIRCULATION PUMP
AS	HC#3330 AUTO SANITIZER WITH FLOW INDICATOR (SECONDARY SYSTEM)
B	36" HI-RATE SAND FILTER PENTAIR TR-140C
BF	1" RPZ BACKFLOW PREVENTER BY G.C.
BT	300 BACKWASH HOLDING TANK WITH 30 GPM MAX TO BACKWASH SUMP
BW	24"x24"x24" BACKWASH SUMP WITH 6" OUTFALL PIPE TO SANITARY SEWER
C	2" MULTI-PORT SELECTOR VALVE
CC	CHEMICAL CONTROLLER
CP	CHEMICAL PUMP (ACID) RC 25/53
CT	15 GAL HDPE CHEMICAL TANK (ACID)
EF	POWER EXHAUST VENTILATORS (2) BY OTHERS
FM	3" FLOW METER
FD	2" FLOOR DRAIN TO SANITARY SEWER BY OTHERS
HB	3/4" HOSE BIB BY GENERAL CONTRACTOR
L	LOUVERS IN DOORS 12" X 12" +/-, SET NEAR BOTTOM OF DOORS. SALINE GENERATING SYSTEM TO INCLUDE ORP AND PH SENSORS, CONTROLS TO AUTOMATICALLY MAINTAIN CHLORINE AND PH LEVELS IN POOL (PRIMARY SYSTEM)
SG	

**POOL PUMP ROOM PIPING KEY**

TAG	DESCRIPTION
①	4" MAIN DRAIN WITH PVC BALL VALVE
②	4" SKIMMER WITH PVC BUTTERFLY VALVE
③	2" VACUUM WITH PVC BALL VALVE
④	3" RETURN
⑤	1" AUTO FILL LINE (DOMESTIC WATER SUPPLY BY G.C.)
⑥	1" MANUAL POOL FILL CONNECT TO POOL RETURN

2 PUMP/CHEMICAL STORAGE ROOMS  
 A2 SCALE: 1/2" = 1'-0"



1 POOL PIPING PLAN  
 A2 SCALE: 1/4" = 1'-0"

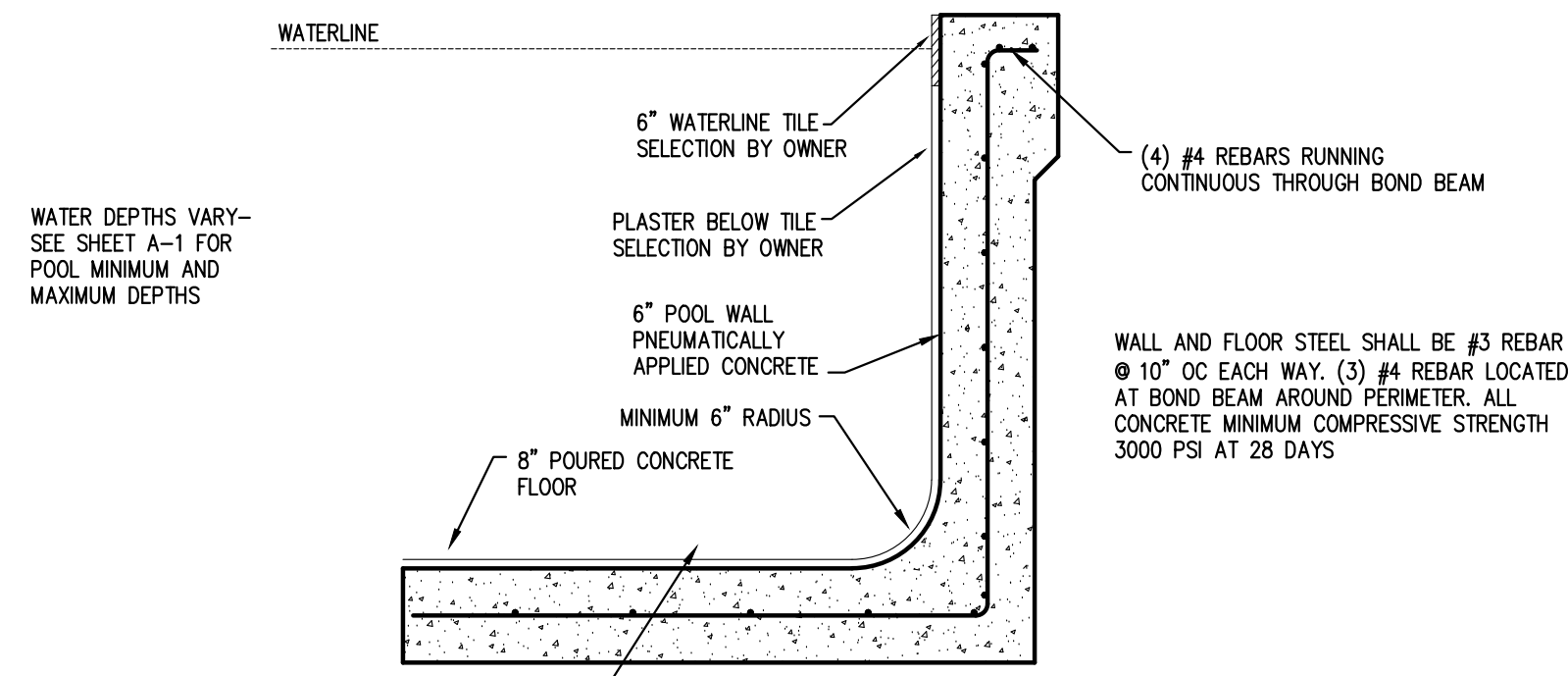
OWNERS:  
 VILLAGE OF LEXINGTON HOA  
 PO BOX 87209  
 FAYETTEVILLE NC 28304

LOCATION:  
 LEXINGTON PLANTATION  
 400 CENTENNIAL PARKWAY  
 CAMERON, NC

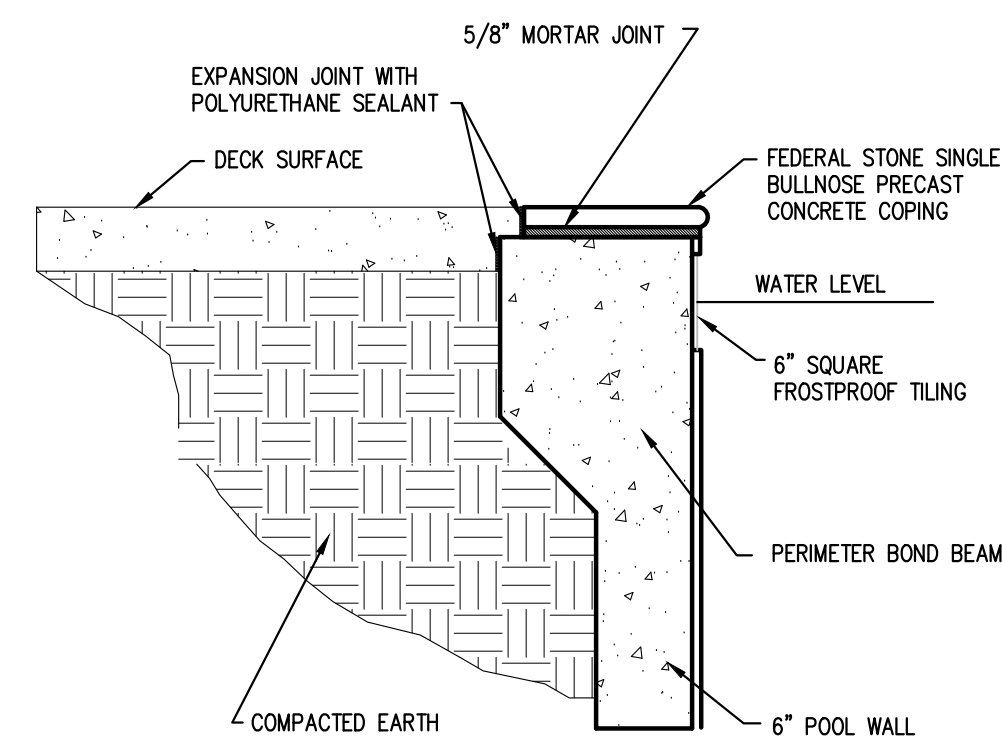
DATE:  
 AUG 11TH 2022

REVISIONS:  
 AS SHOWN

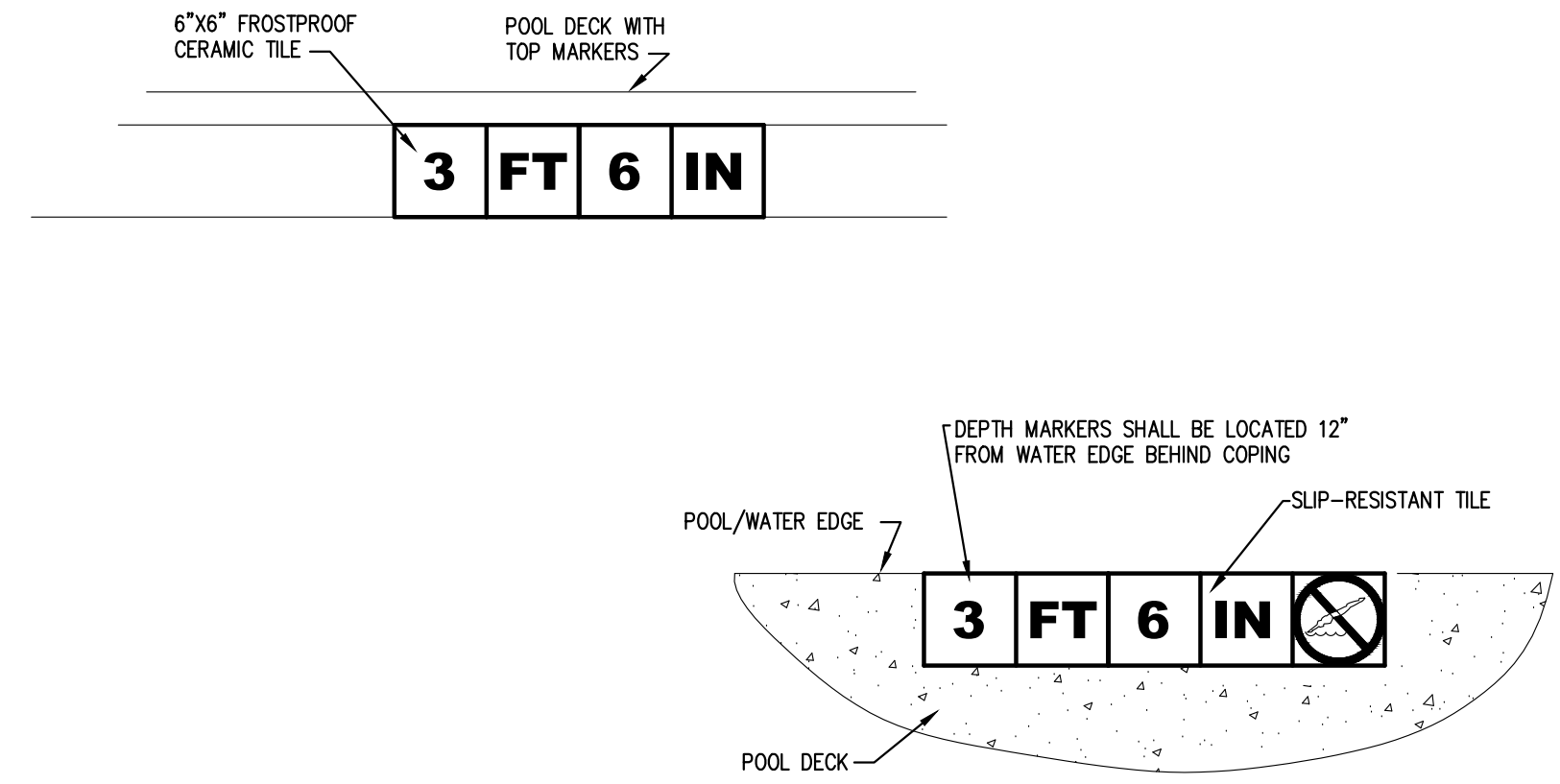
DRAWN:  
 J.PARRISH



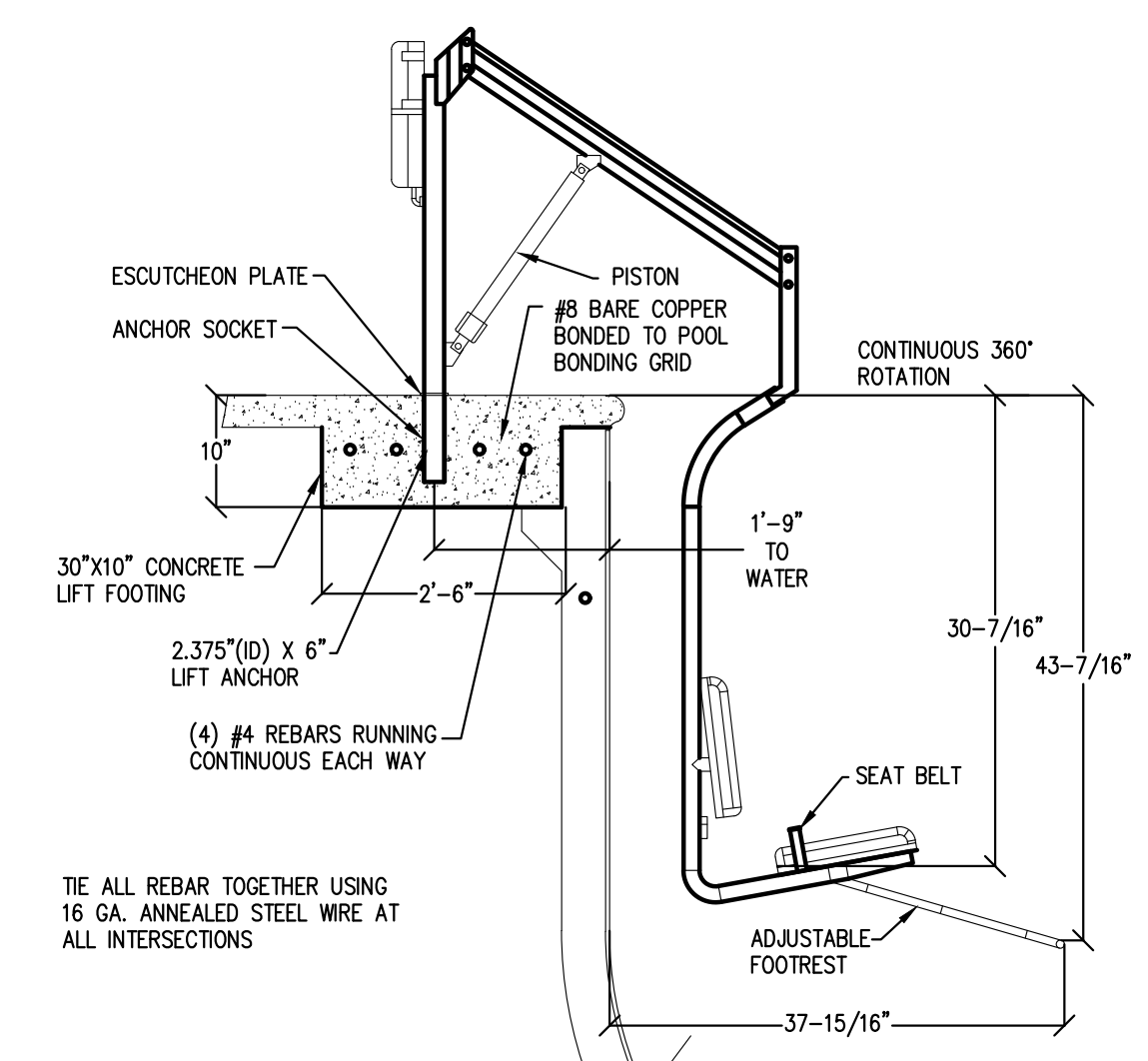
**1 POOL SECTION DETAIL**  
A3 SCALE: NOT TO SCALE



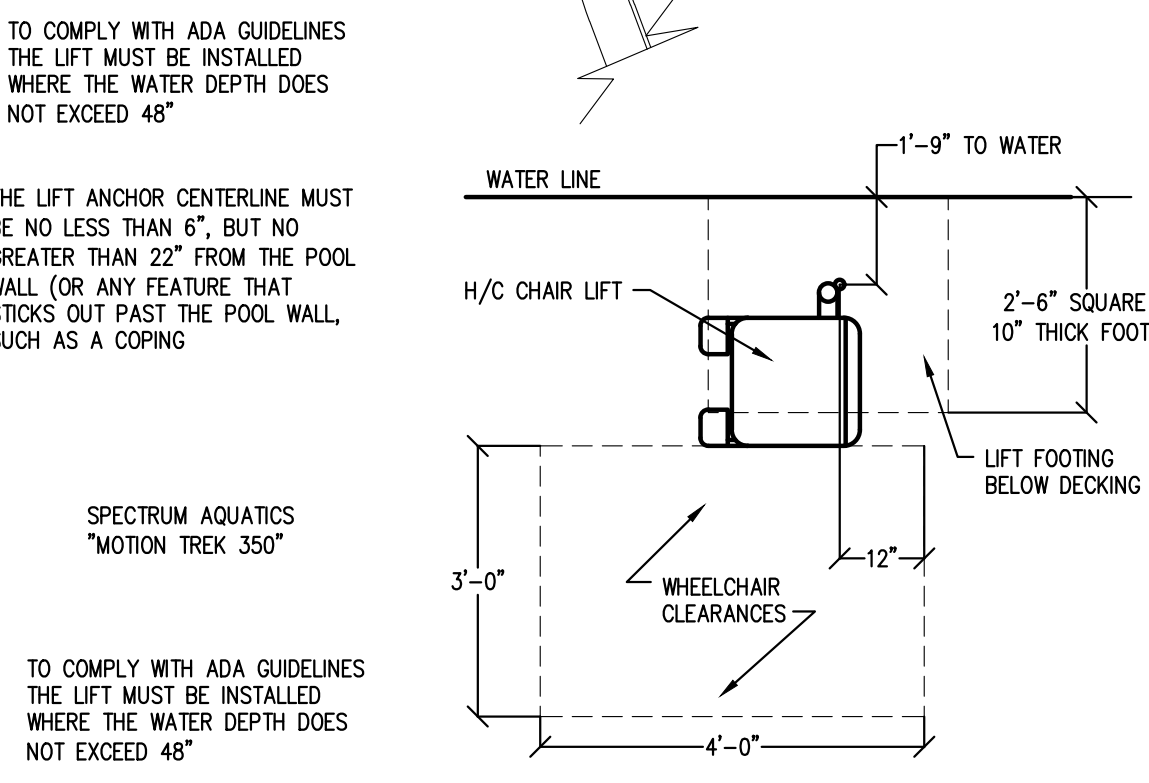
**2 COPING DETAIL**  
A3 SCALE: NOT TO SCALE



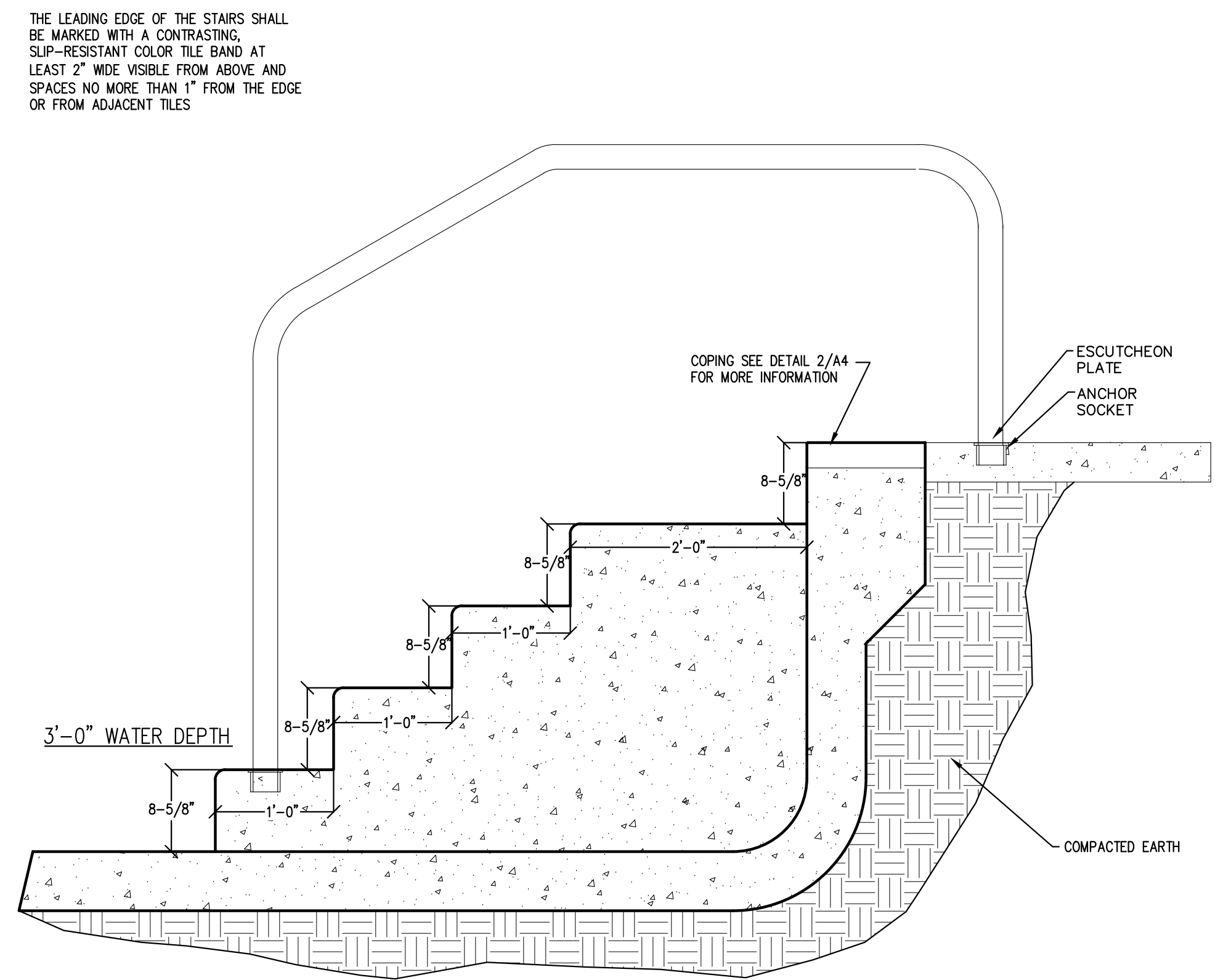
**3 DEPTH MARKER DETAIL**  
A3 SCALE: NOT TO SCALE



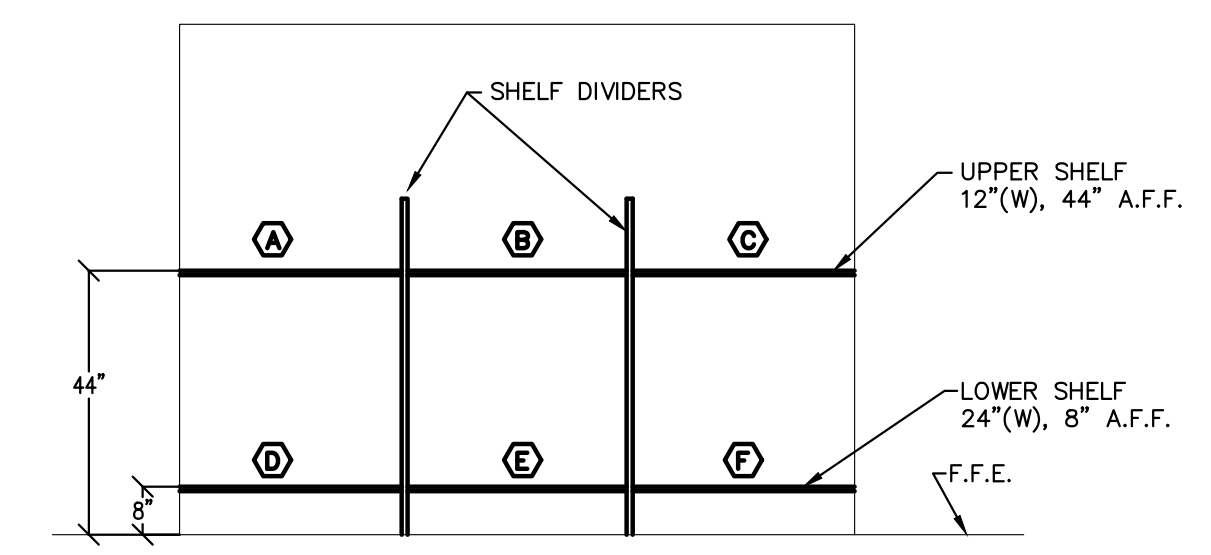
**5 HANDICAP LIFT DETAIL**  
A3 SCALE: NOT TO SCALE



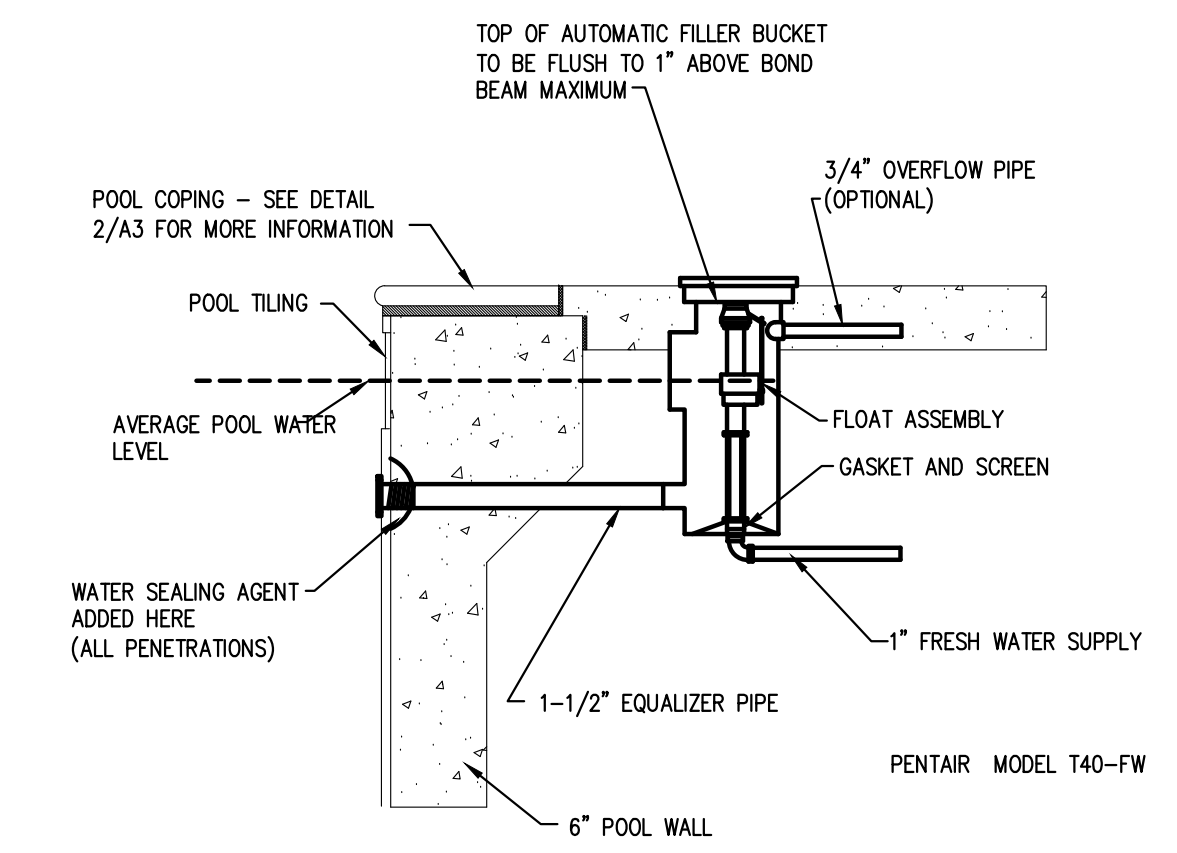
**6 LADDER DETAIL**  
A3 SCALE: NOT TO SCALE



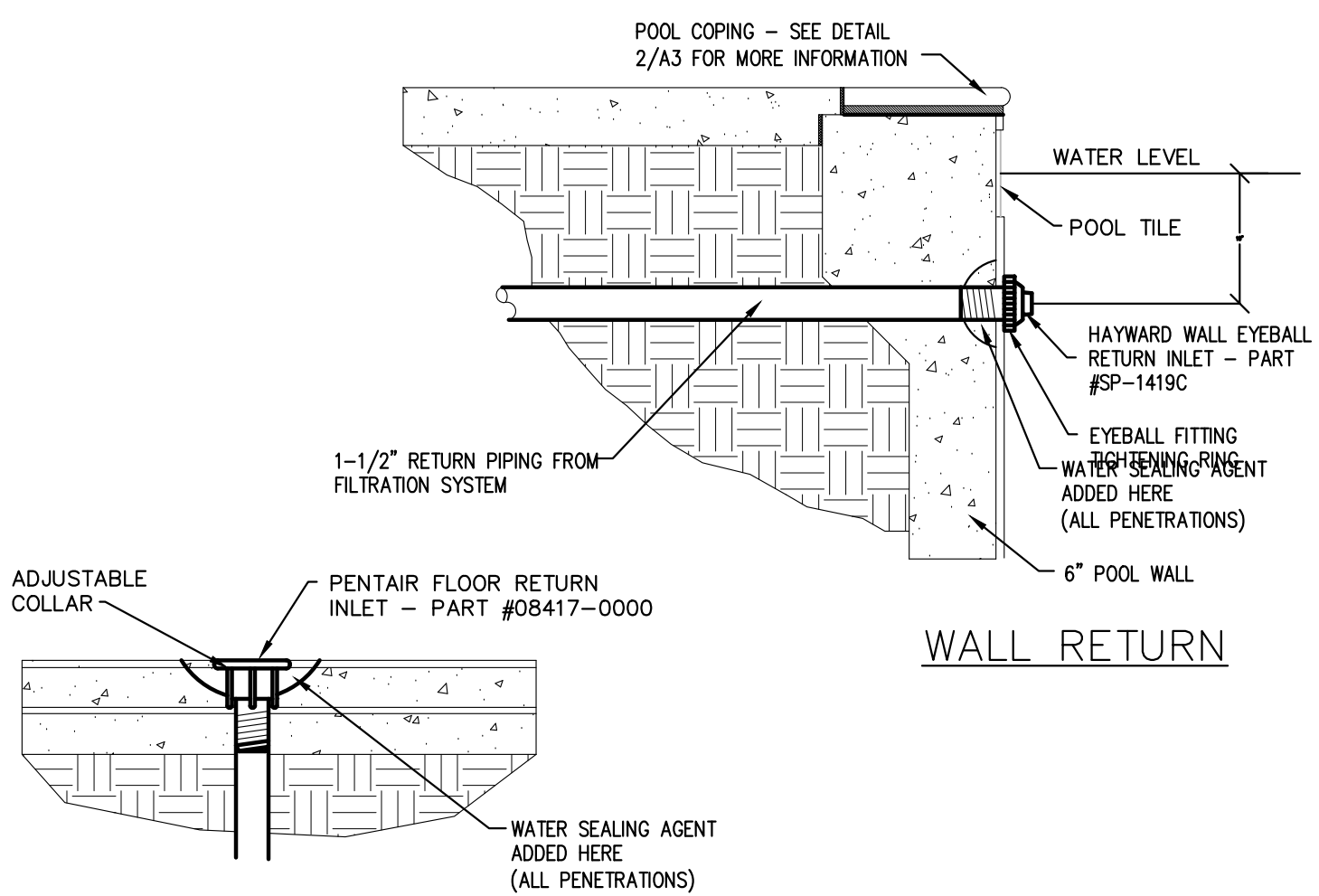
**7 MAIN STAIR DETAIL**  
A3 SCALE: NOT TO SCALE



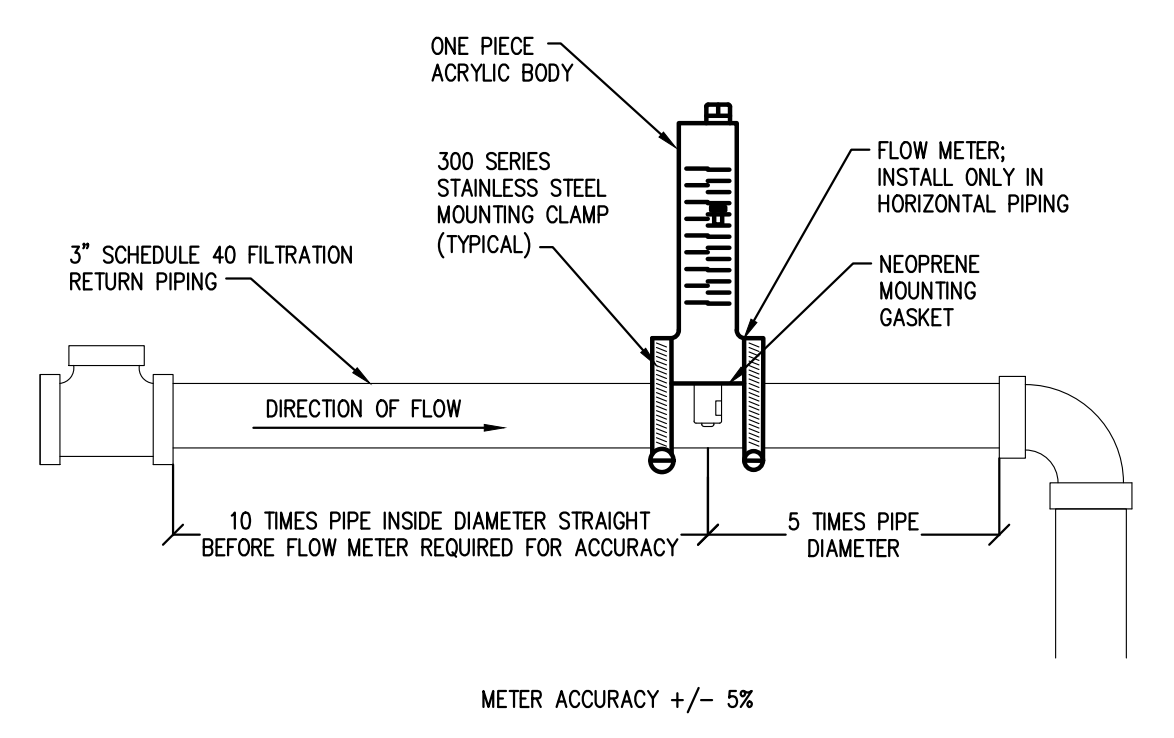
**4 CHEMICAL ROOM SHELVING DETAIL**  
A3 SCALE: NOT TO SCALE



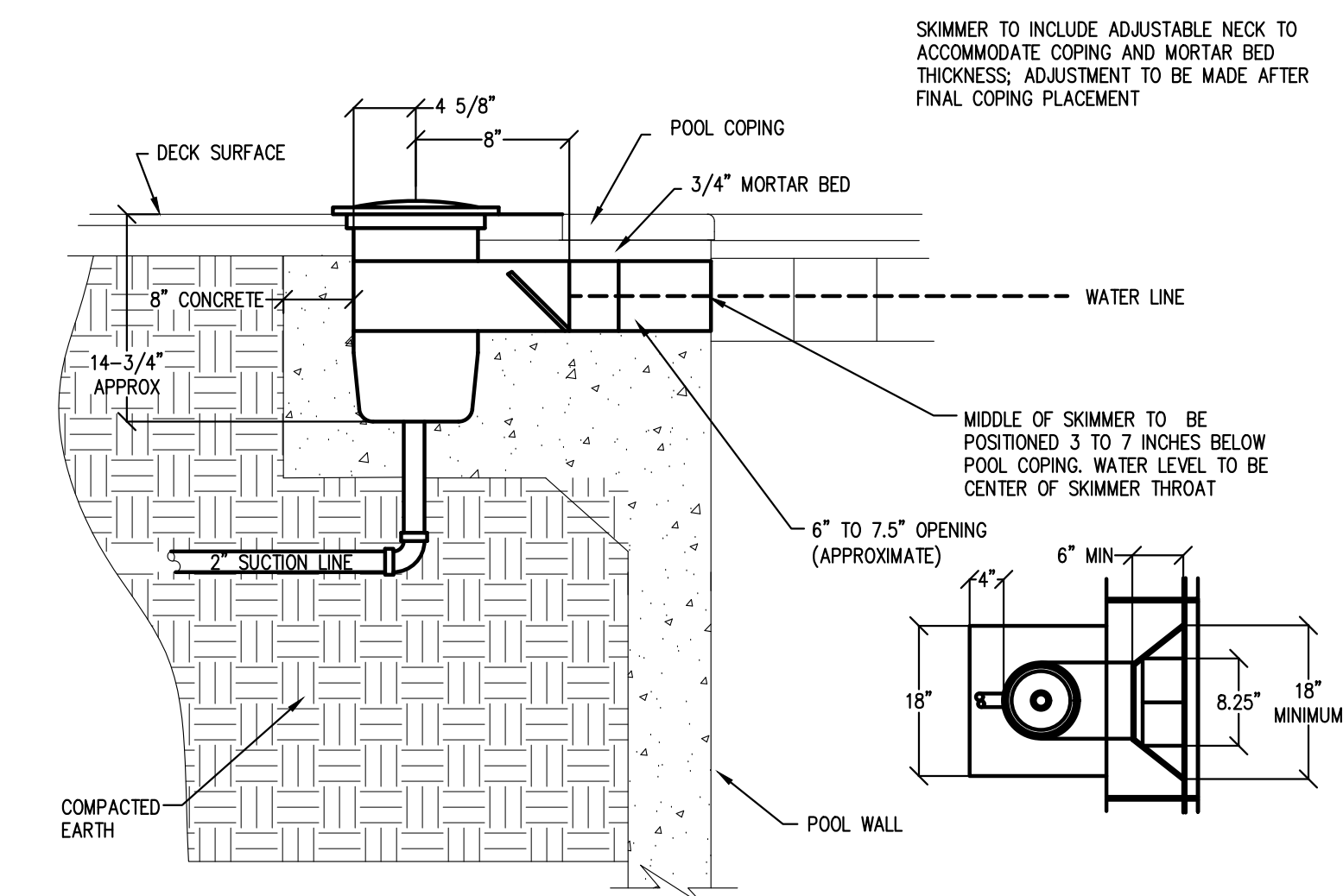
**8 AUTOMATIC WATER FILL DETAIL**  
A3 SCALE: NOT TO SCALE



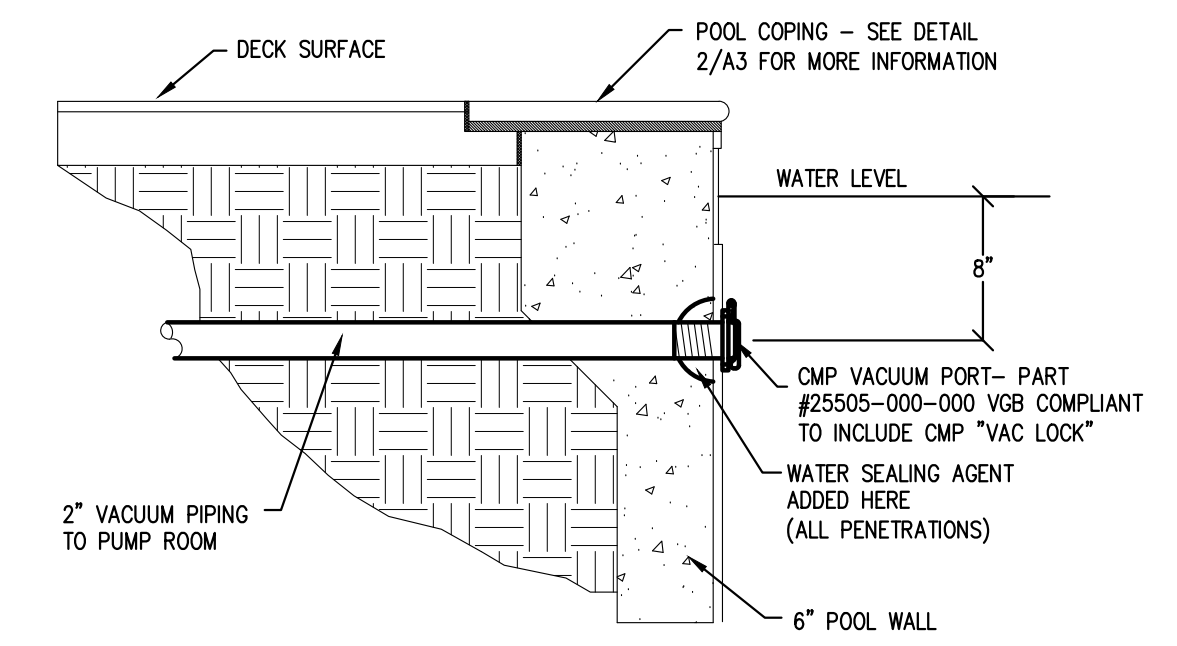
**9 WALL & FLOOR RETURN DETAIL**  
A3 SCALE: NOT TO SCALE



**10 HORIZONTAL FLOW METER DETAIL**  
A3 SCALE: NOT TO SCALE



**11 SKIMMER DETAIL**  
A3 SCALE: NOT TO SCALE



**12 VACUUM DETAIL**  
A3 SCALE: NOT TO SCALE

CHEMICAL ROOM SHELVING LAYOUT			
TAG	ITEM TYPE	ITEM DESCRIPTION	QUANTITY
A	MISC. SUPPLIES	MISC. SUPPLIES	VARIES
B	ANCILLARIES	GLB ALGIMYCIN 2000, STAINTRINE, ROBARB SUPER BLUE	1 GAL, 1 GAL, 1/2 GAL
C	MISC. SUPPLIES	TEST KITS, THERMOMETERS, CYANURIC ACID	N/A, N/A, 8 LBS
D	OXIDIZER	CALCIUM HYPOCHLORITE	100 LBS
E	PH LOWERING CHEMICALS	MURIATIC ACID	4 GALLONS
F	OXIDIZER	PROTEAM 3 PURETABS (TRICHLOR TABS)	100 LBS
G	BALANCING CHEMICALS	SODIUM BICARBONATE, SODA ASH, CALCIUM CHLORIDE	50 LBS BAGS EACH

SHELVING & DIVIDERS: WOODEN CONSTRUCTION

Robert Charles Evans  
REGISTERED ARCHITECT  
5530  
NORTH CAROLINA  
FAYETTEVILLE, N.C.



09.06.22

OWNERS: VILLAGE OF LEXINGTON HOA  
PO BOX 87209  
FAYETTEVILLE NC 28304

LOCATION: LEXINGTON PLANTATION  
400 CENTENNIAL PARKWAY  
CAMERON, NC

DATE: AUG 11TH 2022

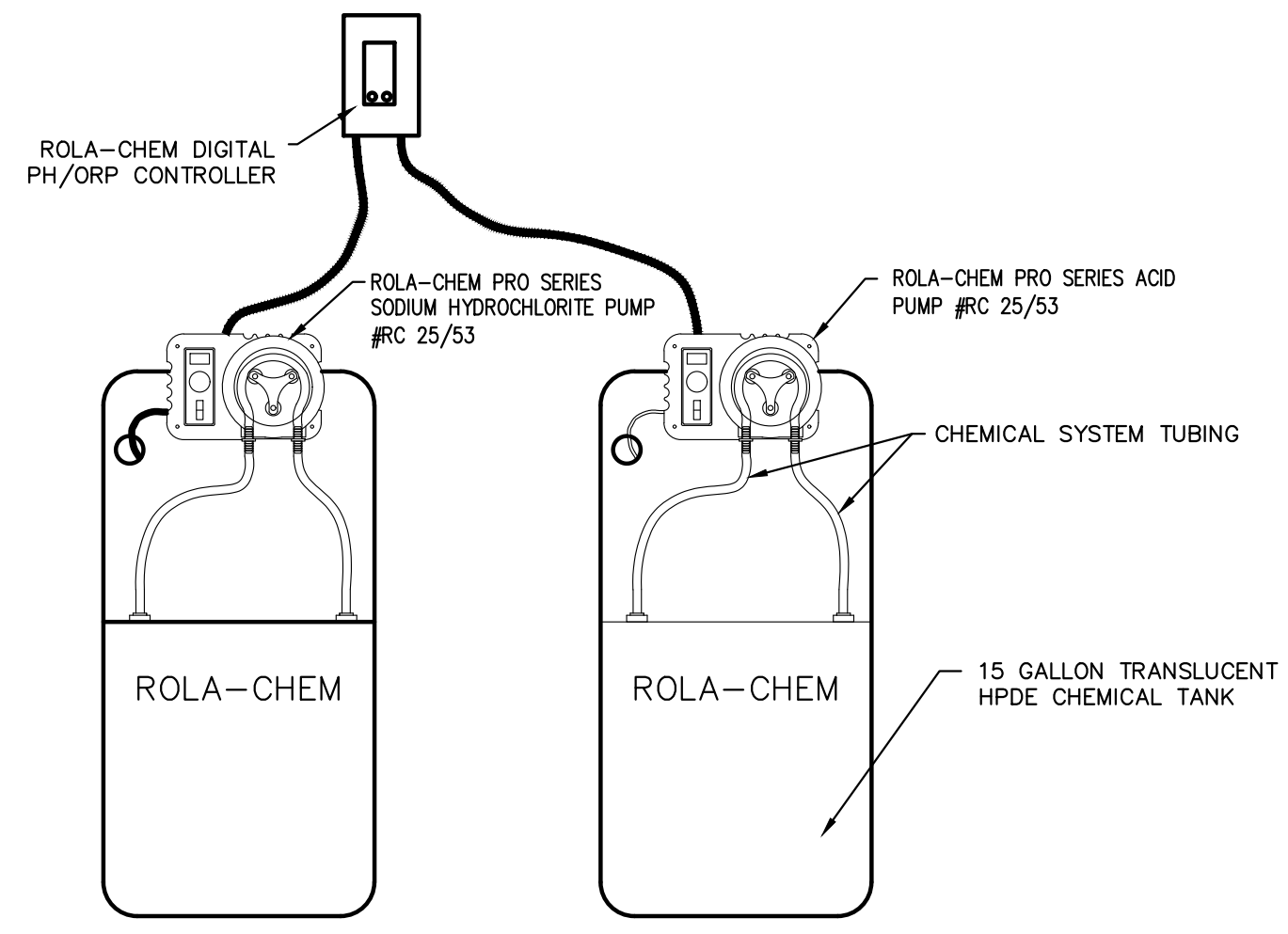
SCALE: AS SHOWN

DRAWN: J.PARRISH

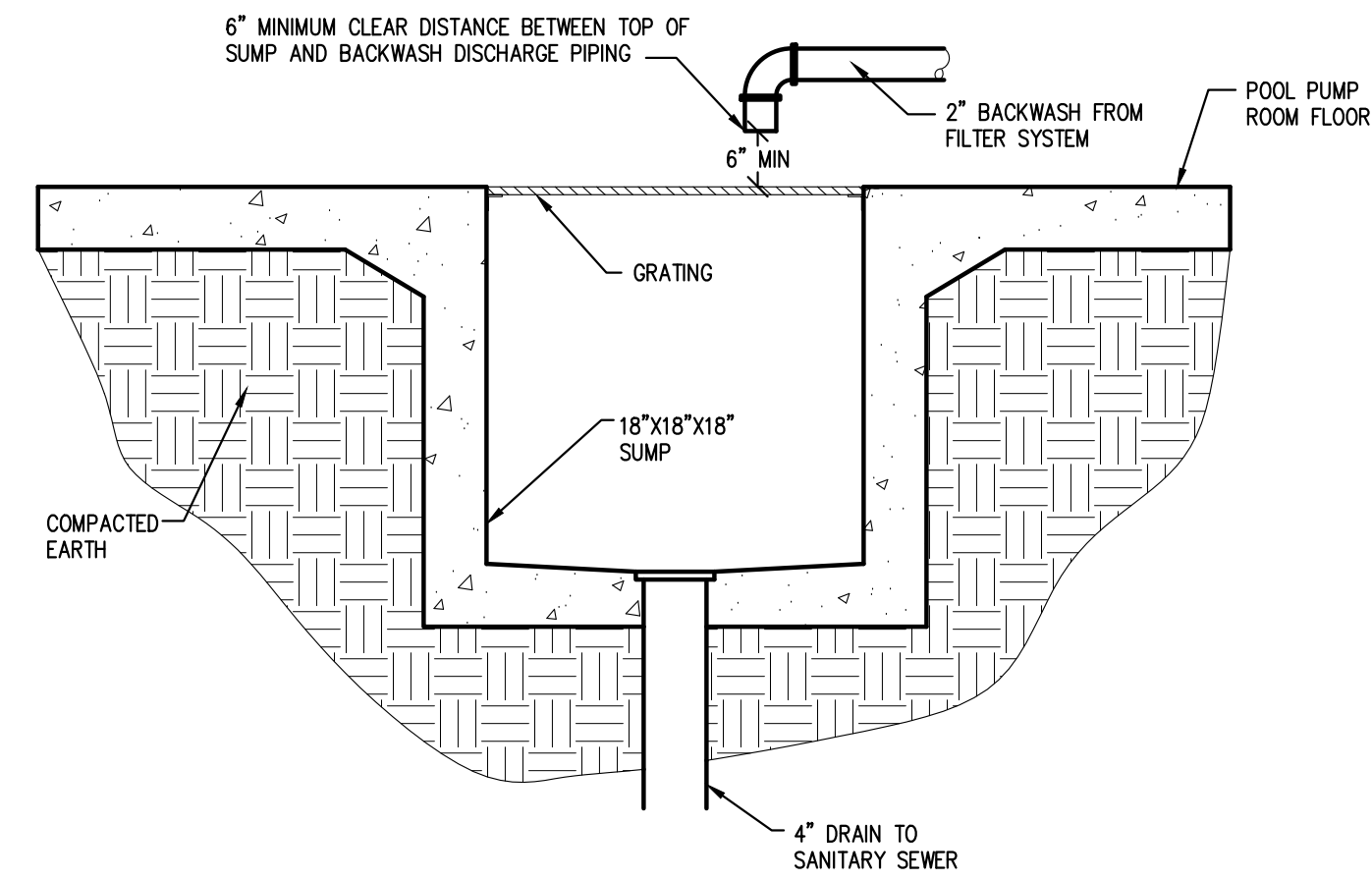
REVISIONS:

SHEET NO:

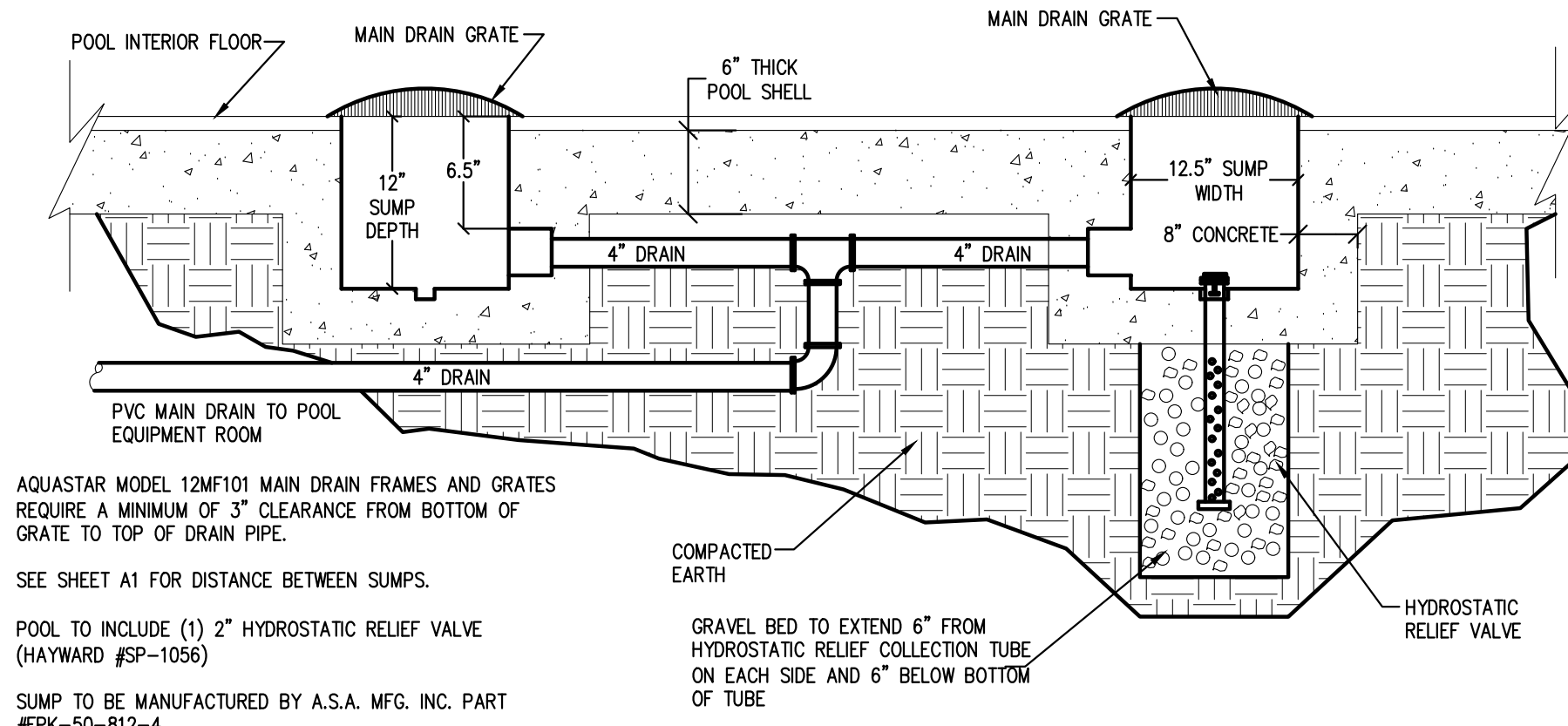
**A3**



**1**  
A4 2 TANK SANITATION DETAIL  
SCALE: NOT TO SCALE



**2**  
A4 SUMP DETAIL  
SCALE: NOT TO SCALE



AQUASTAR MODEL 12MF101 MAIN DRAIN FRAMES AND GRATES REQUIRE A MINIMUM OF 3" CLEARANCE FROM BOTTOM OF GRATE TO TOP OF DRAIN PIPE.

SEE SHEET A1 FOR DISTANCE BETWEEN SUMPS.

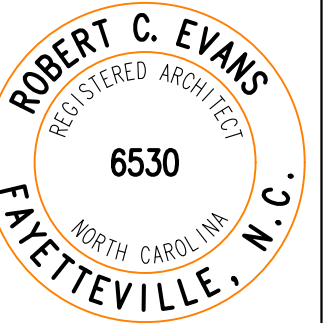
POOL TO INCLUDE (1) 2" HYDROSTATIC RELIEF VALVE (HAYWARD #SP-1056)

SUMP TO BE MANUFACTURED BY A.S.A. MFG. INC. PART #FK-50-812-4

TAG	SIZE	SERVICE	DRAIN OPENING	PIPE SIZE	SUMP SIZE	PART NUMBER
DR	12"x12"	MAIN DRAIN	71.2 SQ. IN. OPEN AREA; 274 GPM @ 1.2 FPS	4"	12" X 12.5"	AQUASTAR 12MF101

**3**  
A4 MAIN DRAIN/HYDROSTATIC RELIEF DETAIL  
SCALE: NOT TO SCALE

Robert Charles Evans  
2504 HAYFORD ROAD, SUITE 102, FAYETTEVILLE, NORTH CAROLINA



09.06.22

OWNERS: VILLAGE OF LEXINGTON HOA PO BOX 87209 FAYETTEVILLE NC 28304	LOCATION: LEXINGTON PLANTATION 400 CENTENNIAL PARKWAY CAMERON, NC	DATE: AUG 11TH 2022	REVISIONS:	SCALE: AS SHOWN	DRAWN: J.PARRISH






SHEET NO:

**A4**

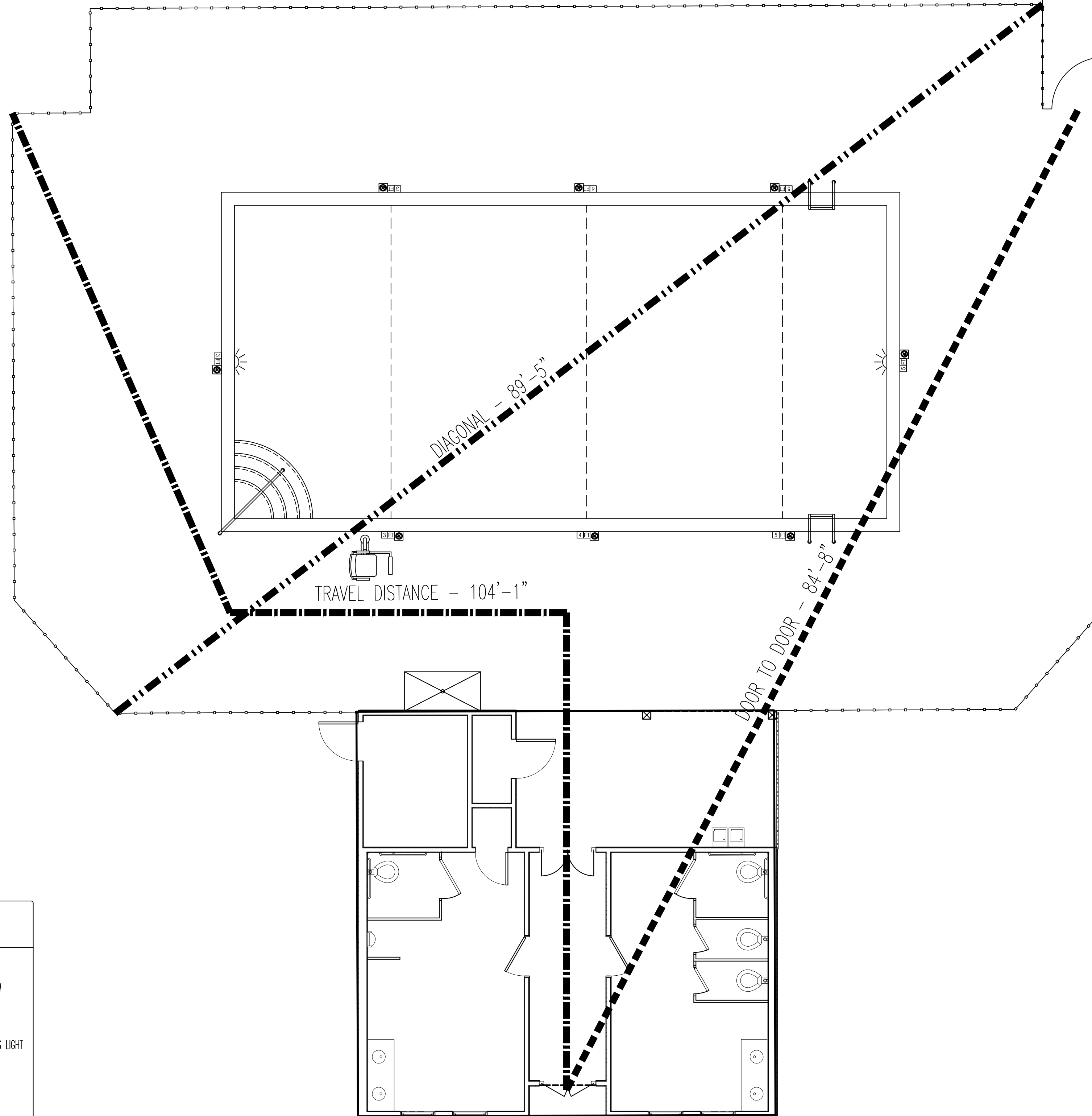
01 LIFE SAFETY PLAN  
 AO 3/16" = 1'-0"

OCCUPANT CONTENT

POOL	1,200 sf / 50 =	24 PERSONS
DECK	3,184 sf / 15 =	212 PERSONS
<b>TOTAL OCCUPANT CONTENT</b>		<b>236 PERSONS</b>

-  EXIT SIGN w/ DIRECTIONAL ARROW
-  EXIT SIGN
-  EXIT SIGN w/ EMERGENCY EGRESS LIGHT
-  EMERGENCY EGRESS LIGHT
-  ● FX FIRE EXTINGUISHER

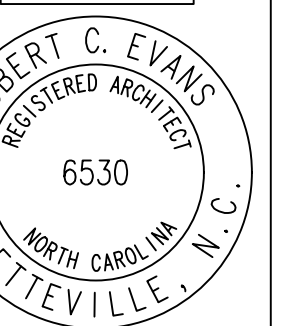
NOTES:  
 1. SEE ARCHITECTURAL BUILDING PLANS FOR LOCATION OF EXIT LIGHTS, EMERGENCY EGRESS LIGHTS AND FIRE EXTINGUISHERS.



PANIC HARDWARE  
 48" / 2" = 240 PERSONS  
 ACTUAL PERSONS = 118

PANIC HARDWARE  
 48" / 2" = 240 PERSONS  
 ACTUAL PERSONS = 118

Robert Charles Evans  
 645 PEARL STREET, FAYETTEVILLE, NORTH CAROLINA 28303



09.06.22

OWNERS:  
 VILLAGE OF LEXINGTON HOA  
 PO BOX 87209  
 FAYETTEVILLE, NC 28304

LOCATION:  
 LEXINGTON PLANTATION  
 400 CENTENNIAL PARKWAY  
 CAMERON, NC

DATE:  
 September 6, 2022

REVISIONS:

SCALE:  
 AS SHOWN

DRAWN:  
 J.PARRISH

SHEET NO:

A5

**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 Draper Aden Associates Andrew P. Mericle, PE 041595 (919) 827-0864 americle@daa.com  
 Civil ( ) ( ) ( )  
 Electrical ( ) ( ) ( )  
 Fire Alarm ( ) ( ) ( )  
 Plumbing Coastal Plains Engineering, PA Christopher S. Locklear 020193 (910) 521-7213 coastalplainseng@gmail.com  
 Mechanical PE ( ) ( ) ( )  
 Sprinkler-Standpipe ( ) ( ) ( )  
 Structural Draper Aden Associates Christopher G. Herndon 043810 (919) 827-0864 cherndon@daa.com  
 Retaining Walls >5' High PE CWI ( ) ( ) ( )  
 Other ( ) ( ) ( ) ( ) ( )  
 ("Others" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

**2018 NC CODE FOR:**  New Construction  Addition  Renovation  
 1<sup>st</sup> 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

Gross Building Area:				
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ FT)	SUB-TOTAL
6 <sup>th</sup> Floor				
5 <sup>th</sup> Floor				
4 <sup>th</sup> Floor				
3 <sup>rd</sup> Floor				
2 <sup>nd</sup> Floor				
Mezzanine				
1 <sup>st</sup> Floor		992		
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

**Necessary 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.

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

$$\text{---} + \text{---} + \dots = \text{---} \leq 1.00$$

2018 NC Administrative Code and Policies Appendix B for Building

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 <sup>4</sup> AREA	(C) AREA FOR FRONTAGE INCREASE <sup>1,5</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>2,3</sup>
1	UTILITY	992	5,500		5,500

<sup>1</sup> 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  $I_f = 100 [F/P - 0.25] \times W/30 = \text{---} (\%)$   
<sup>2</sup> Unlimited area applicable under conditions of Section 507.  
<sup>3</sup> Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).  
<sup>4</sup> The maximum area of open parking garages must comply with Table 406.5.4  
<sup>5</sup> 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	20	
Building Height in Stories (Table 504.4)	1	1	

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

2018 NC Administrative Code and Policies Appendix B for Building

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							

\* Indicate section number permitting reduction

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 (%)

2018 NC Administrative Code and Policies Appendix B for Building

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 • 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: AC  
 SCALE: \_\_\_\_\_  
 DATE: 8/11/22  
 PROJECT NUMBER: 2101033

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

**ENERGY REQUIREMENTS:**  
 The following data shall be considered minimum and any special attribute required to meet the **North Carolina Energy Conservation Code** shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code:  No  Yes (The remainder of this section is not applicable)  
 Exempt Building:  No  Yes (Provide Code or Statutory reference): U/M OCCUPANCY CLASSIFICATION  
**Climate Zone:**  3A  4A  5A  
**Method of Compliance: Energy Code**  Performance  Prescriptive  
 ASHRAE 90.1  Performance  Prescriptive  
 (If "Other" specify source here)                     

**THERMAL ENVELOPE (Prescriptive method only)**  
**Roof/Ceiling Assembly (each assembly)**  
 Description of assembly: \_\_\_\_\_  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_  
 Skylights in each assembly: \_\_\_\_\_  
 U-Value of skylight: \_\_\_\_\_  
 Total square footage of skylights in each assembly: \_\_\_\_\_  
**Exterior Walls (each assembly)**  
 Description of assembly: \_\_\_\_\_  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_  
 Openings (windows or doors with glazing)  
 U-Value of assembly: \_\_\_\_\_  
 Solar heat gain coefficient: \_\_\_\_\_  
 Projection factor: \_\_\_\_\_  
 Door R-Values: \_\_\_\_\_

**Walls below grade (each assembly)**  
 Description of assembly: \_\_\_\_\_  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_

**Floors over unconditioned space (each assembly)**  
 Description of assembly: \_\_\_\_\_  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_

**Floors slab on grade**  
 Description of assembly: \_\_\_\_\_  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_  
 Horizontal/Vertical requirement: \_\_\_\_\_  
 Slab Heated: \_\_\_\_\_

2018 NC Administrative Code and Policies Appendix B for Building

**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

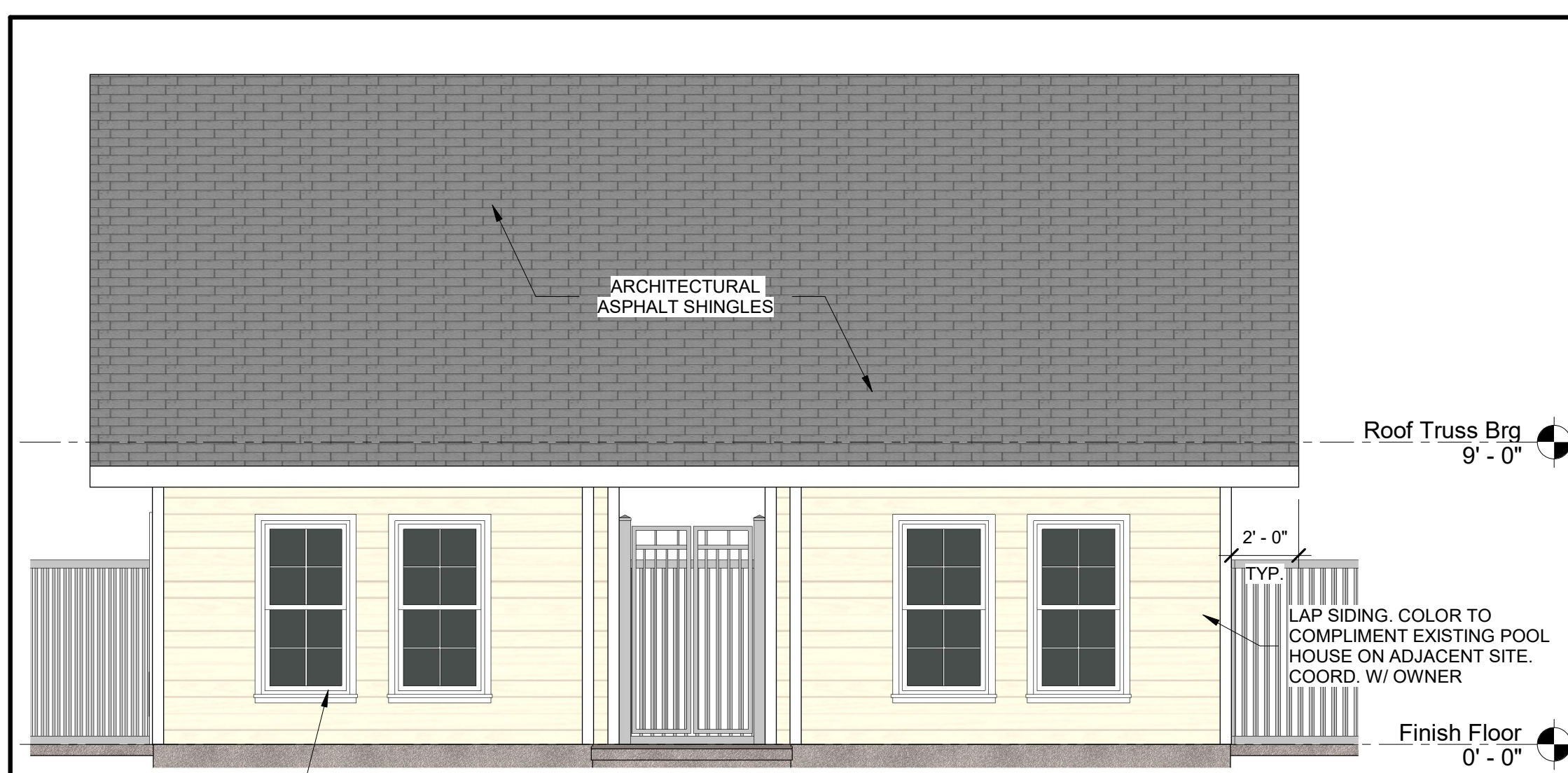
**ACCESSIBLE PARKING**  
 2018 NC Administrative Code and Policies Appendix B for Building

SECTION 1106						
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	W' ACCESS AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)										
USE	SPACE	WATERCLOSETS			LAVATORIES			SHOWERS / TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
EXIST'G										
NEW		1	3		1	2	2		1	1
REQ'D										

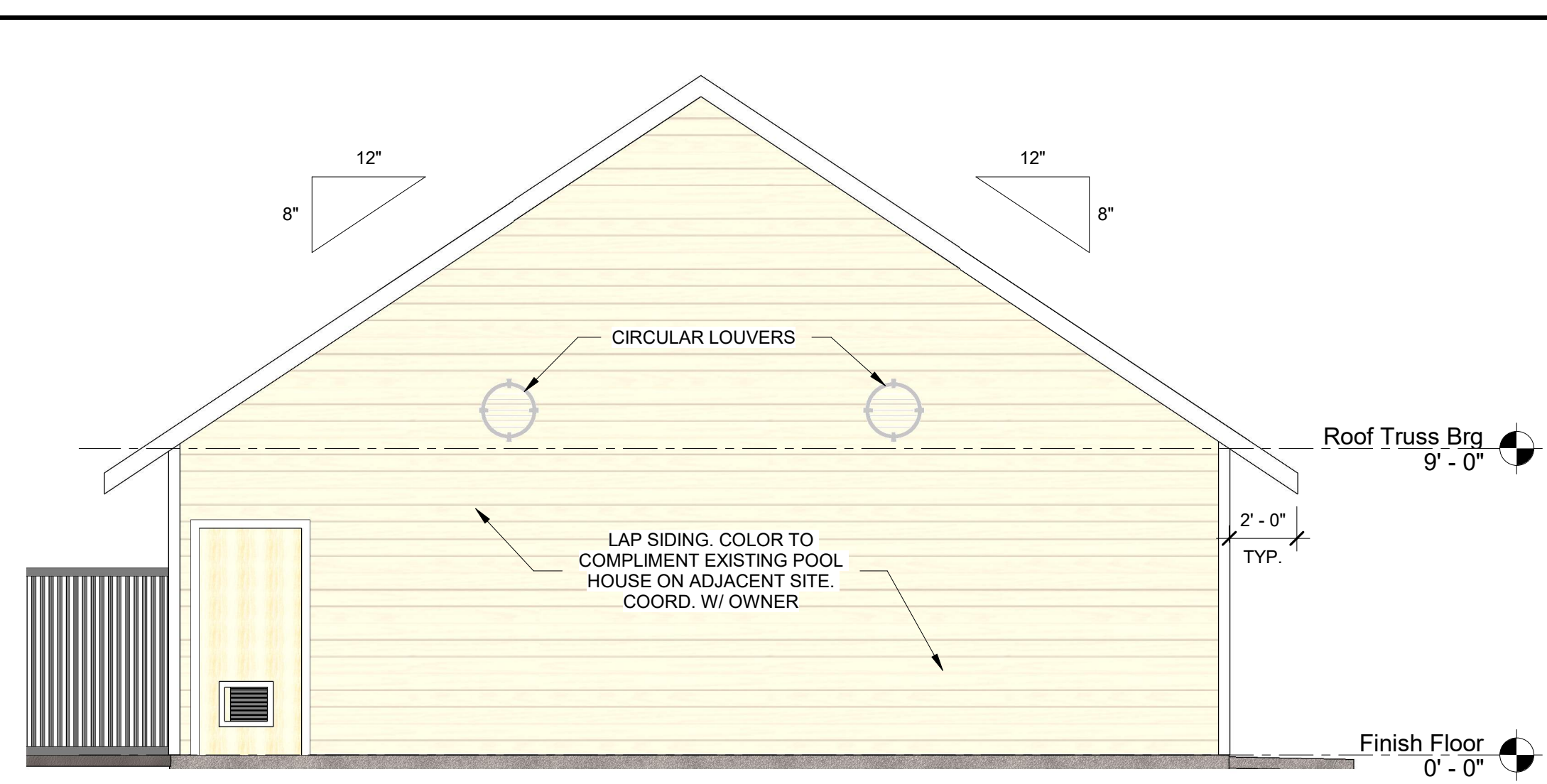
**SPECIAL APPROVALS**  
**Special approval:** (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

2018 NC Administrative Code and Policies Appendix B for Building



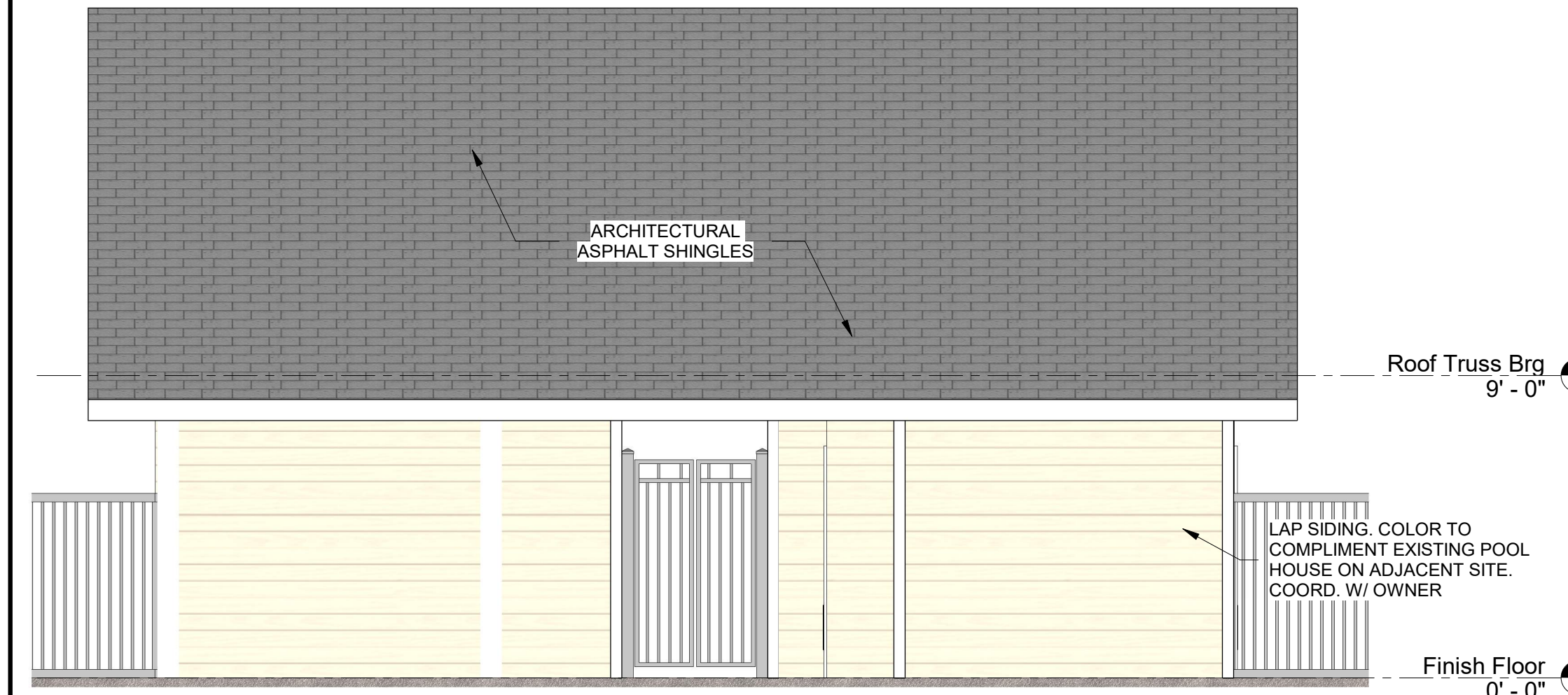
**FRONT ELEVATION**

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



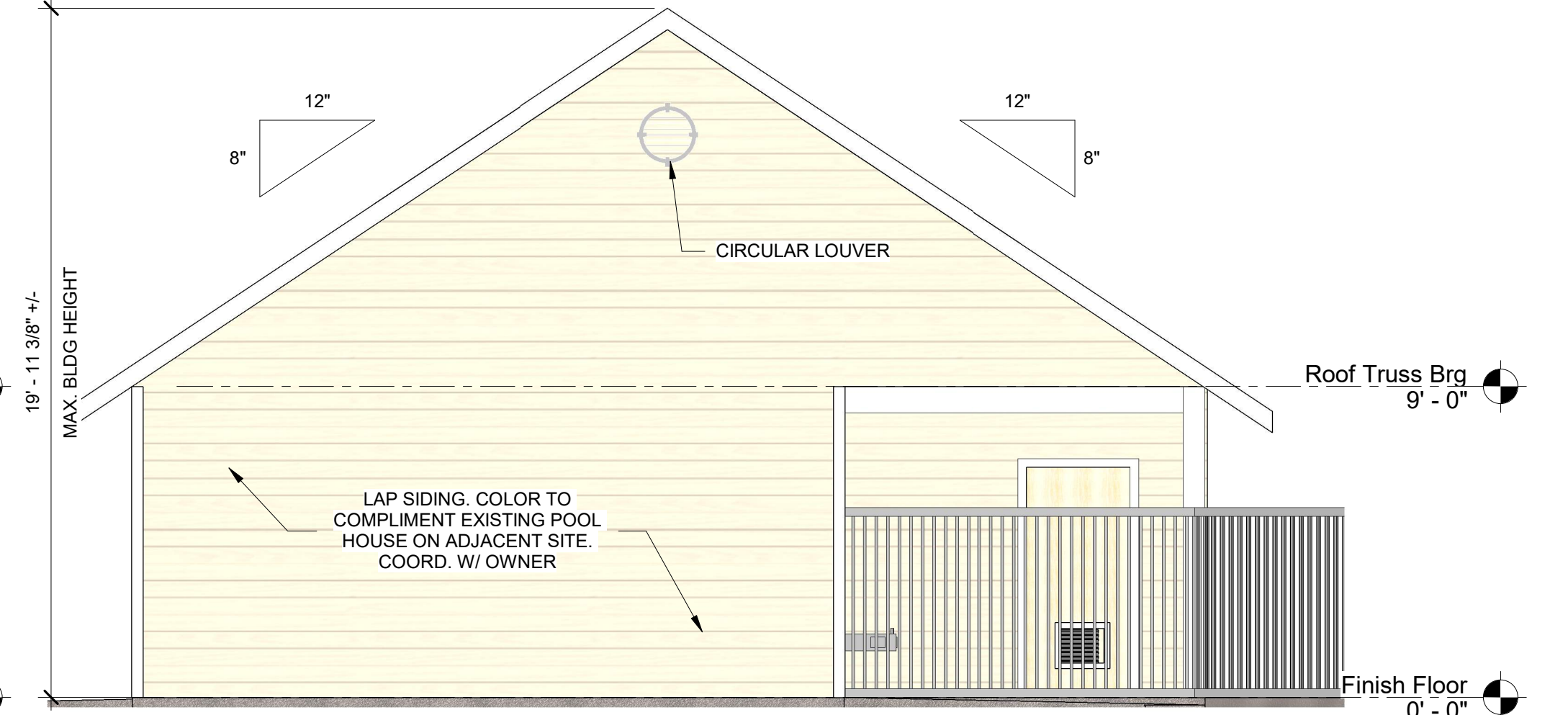
**LEFT ELEVATION**

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



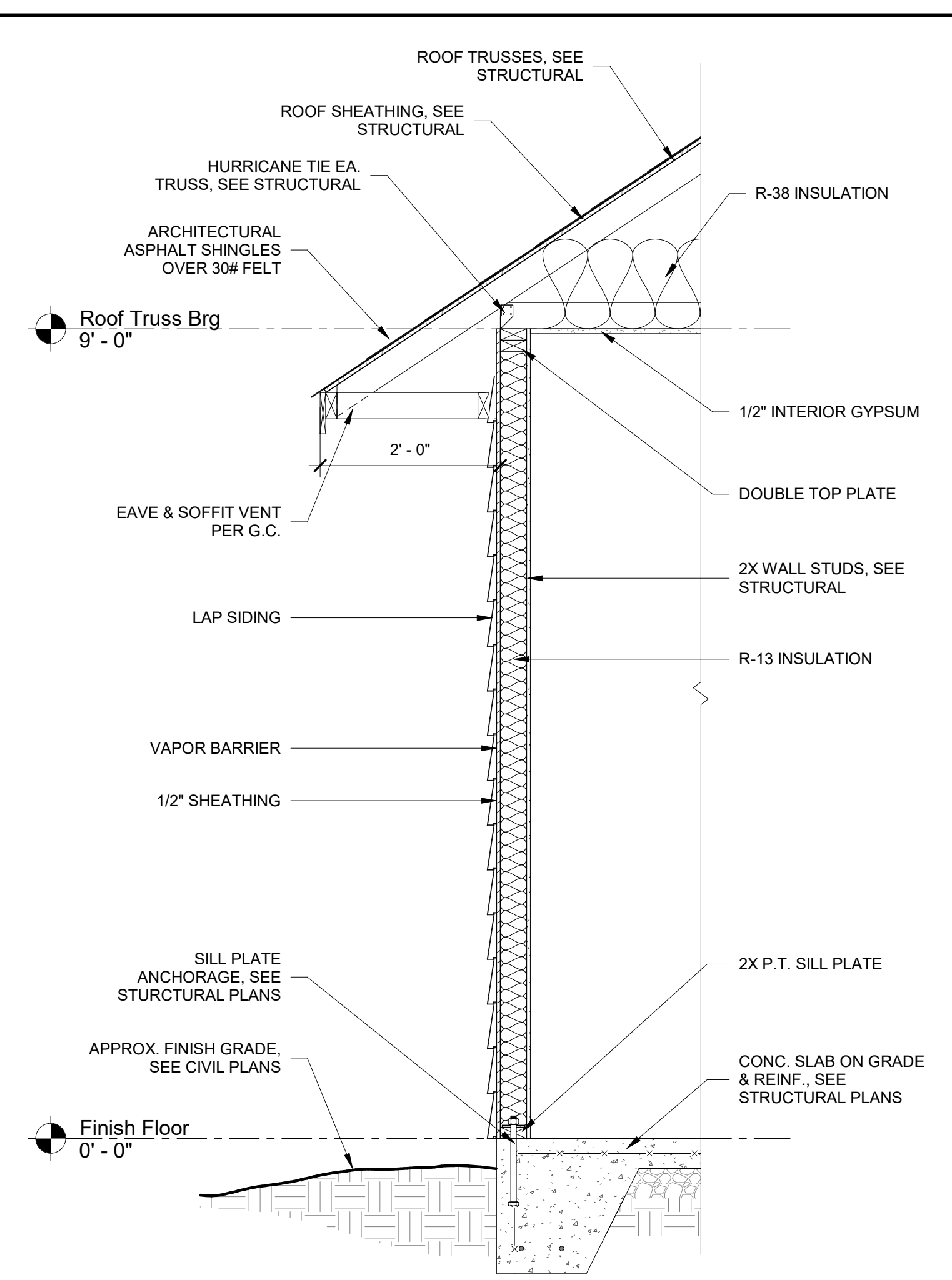
**REAR ELEVATION**

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



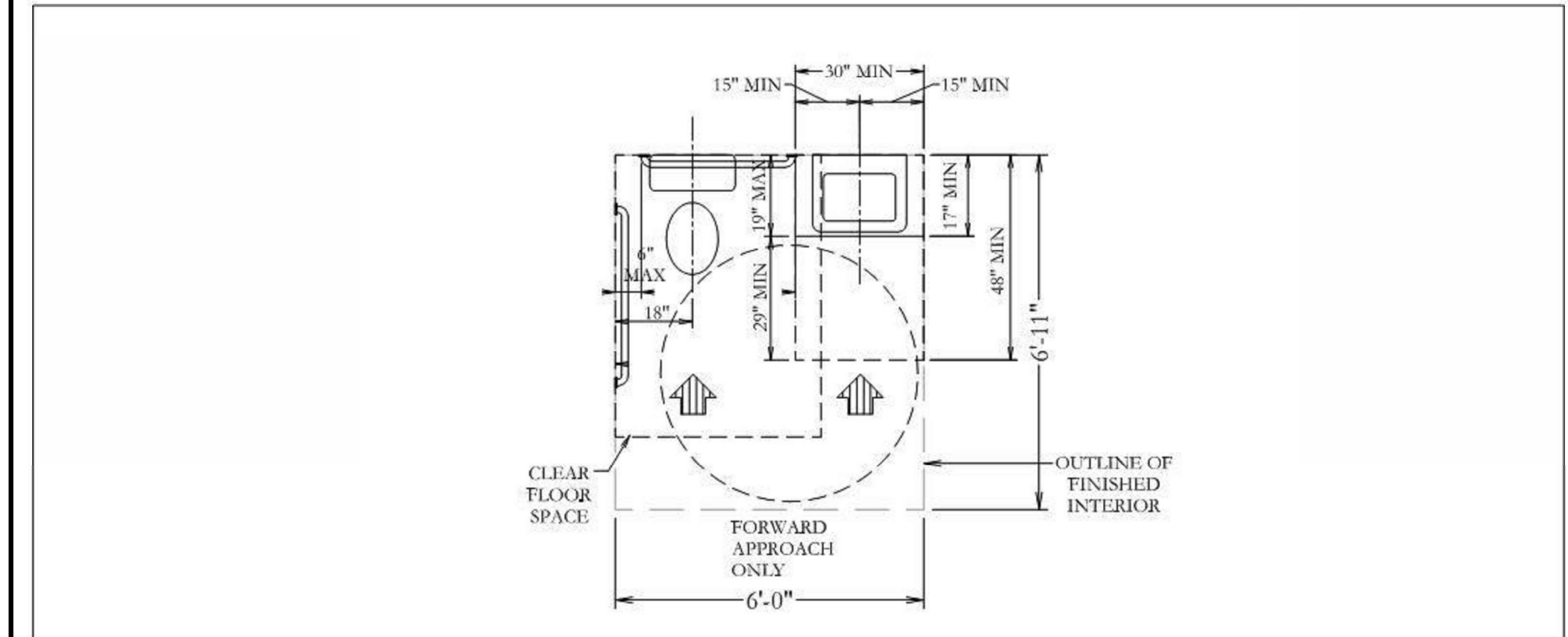
**RIGHT ELEVATION**

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

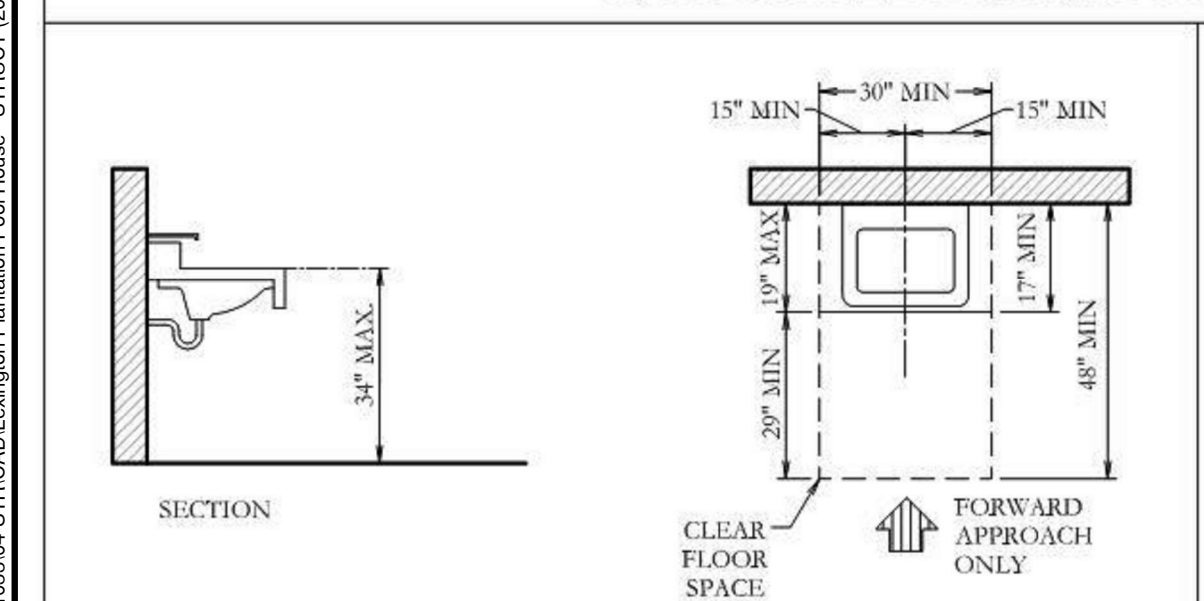


**TYP. WALL SECTION**

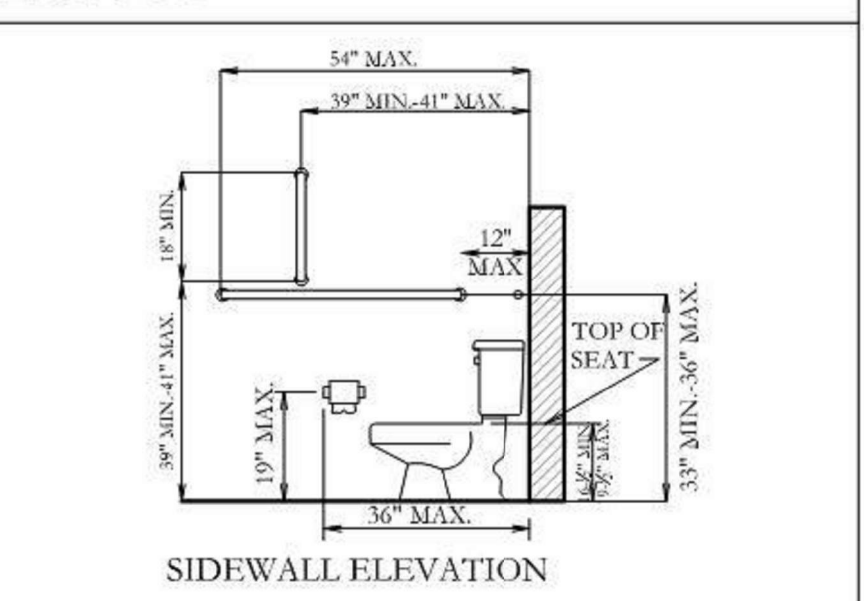
SCALE: 3/4" = 1'-0"



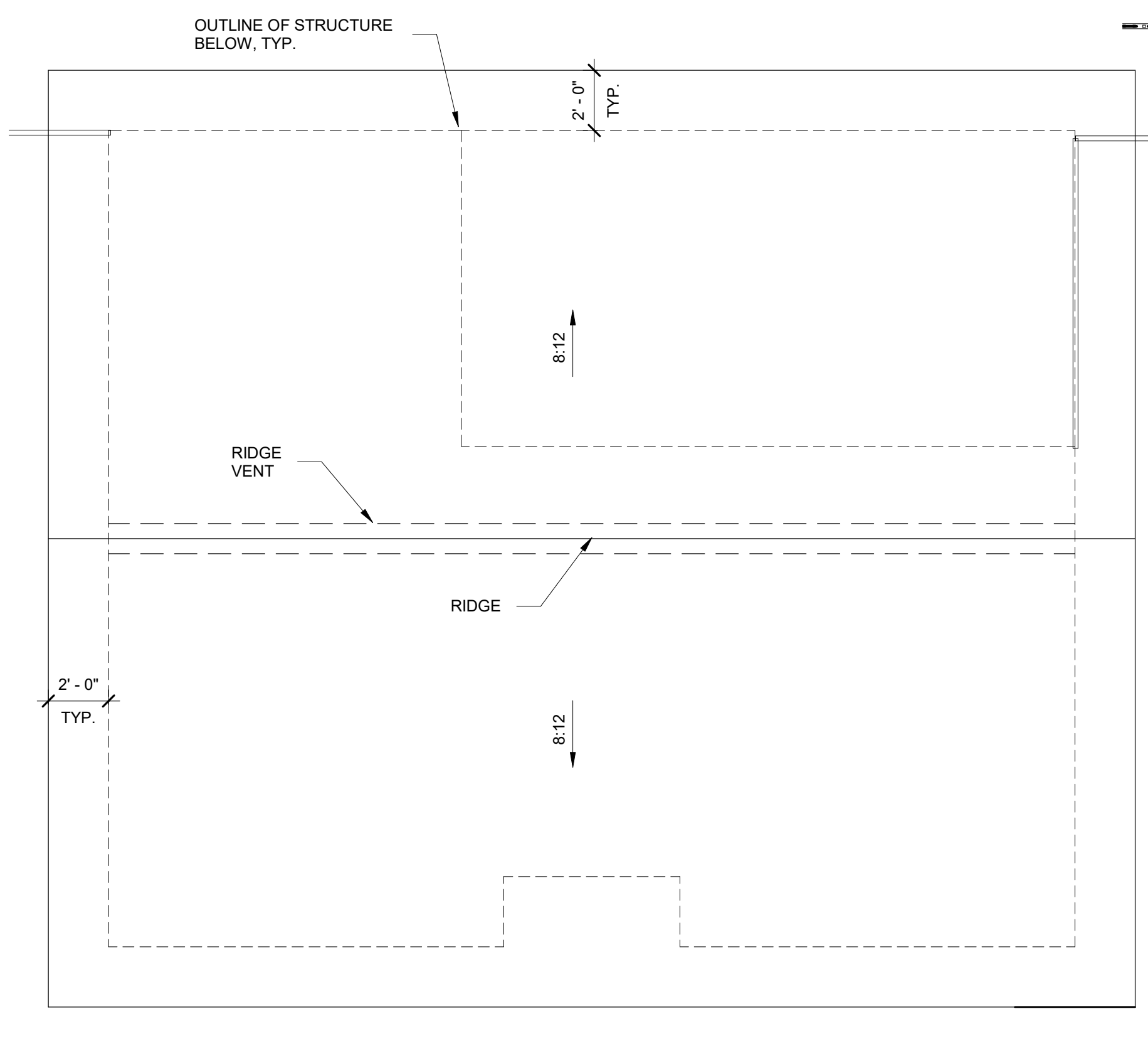
**ACCESSIBLE BATHROOM LAYOUT**



**SINKS**

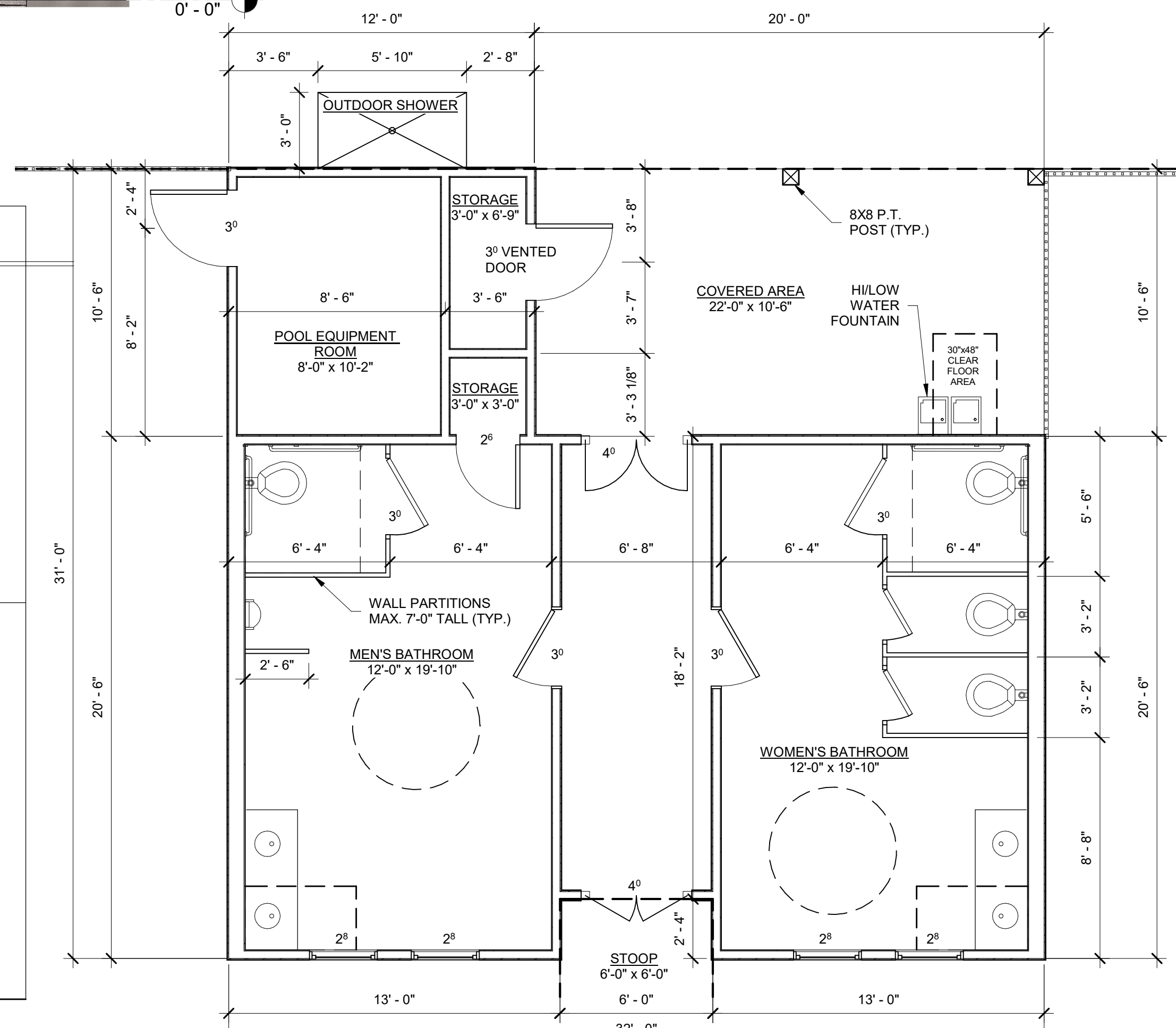


**TOILET ACCESSORIES**



**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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 • Northern Virginia  
 • Blacksburg, VA  
 • Charlottesville, VA  
 • Virginia Beach, VA  
 NC Firm License # F-1423

**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: 8/11/22  
 PROJECT NUMBER: 2101033

**A1.0**

P:\2021\10\2021\10\1033\04\STR\CADD\Lexington Plantation Pool House - STRUCT (2023).dwt



**BUILDING CODE NOTES:**

1. APPLICABLE CODES: 2018 NORTH CAROLINA STATE BUILDING CODE/ 2015 INTERNATIONAL BUILDING CODE
2. **OCCUPANCY CLASSIFICATION:**  
PROPOSED BUILDING USE: ANCILLARY STRUCTURE TO SERVICE COMMUNITY POOL  
PROPOSED CLASSIFICATION: U - UTILITY AND MISCELLANEOUS (POOL HOUSE)  
A - ASSEMBLY (POOL & POOL DECK)
3. **CONSTRUCTION TYPE:**  
PROPOSED: TYPE VB CONSTRUCTION, NON-SPRINKLERED
4. **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
992 GSF	588 NSF

  
\* NET SF = AREA INSIDE EXTERIOR WALLS  
  
**HEIGHT:**  
ALLOWABLE HEIGHT (TABLE 504.3): 40'-0" (1 STORY)  
PROPOSED HEIGHT: 20'-0" (1 STORY)
5. **OCCUPANT LOAD:**  

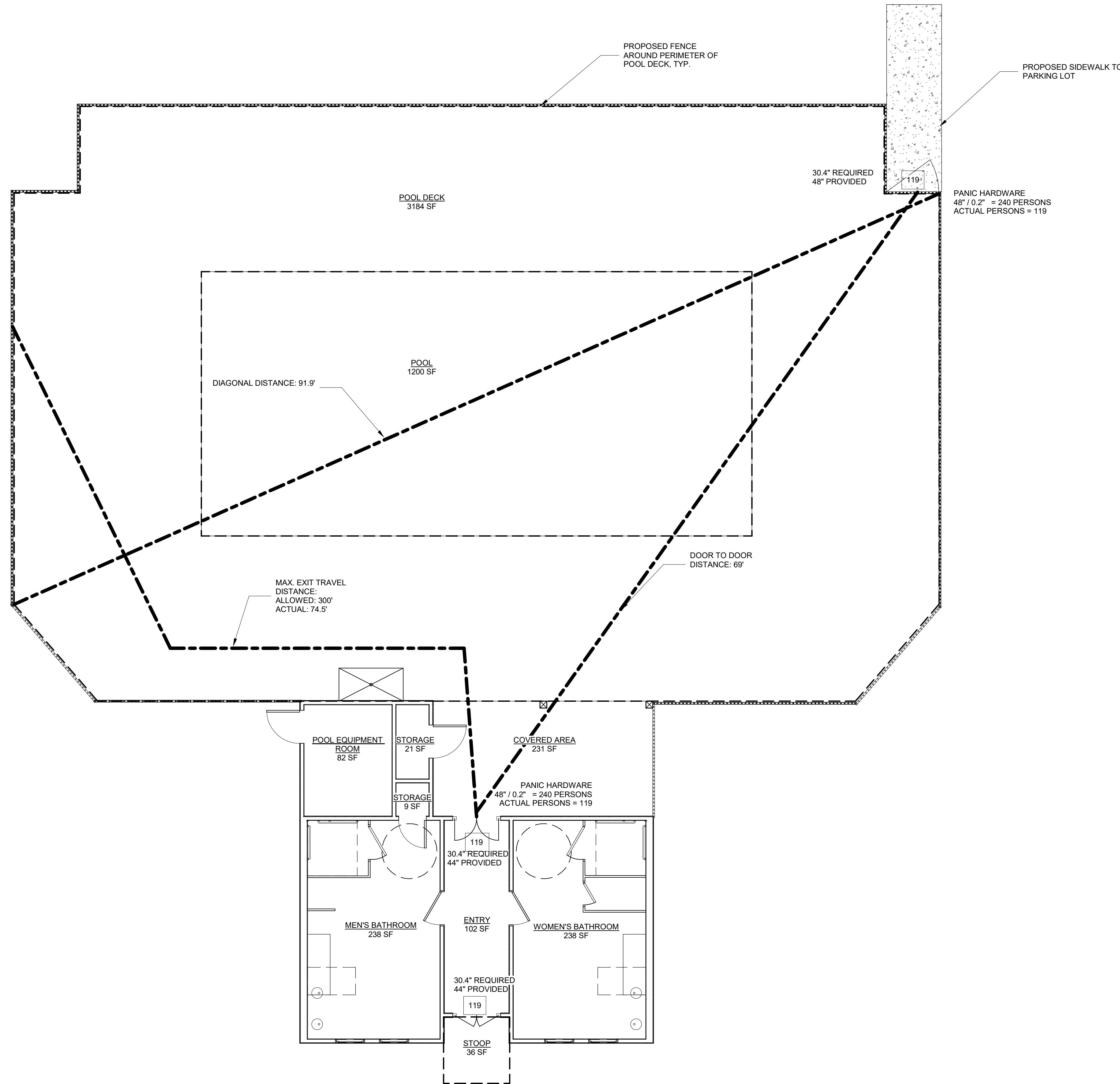
USE	SIZE	OCC'S PER SF	OCCS.
POOL	1,200 SF	1 OCC PER 50 SF	24
POOL DECK	3,184 SF	1 OCC PER 15 SF	213
			TOTAL: 237

  
NOTE: POOL HOUSE SQUARE FOOTAGE IS CONSIDERED NON-SIMULTANEOUS OCCUPANCY
6. **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	48"
POOL GATES AT FRONT OF BLDG	30.4	44"



**LIFE SAFETY PLAN**

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

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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: 8/11/22  
 PROJECT NUMBER: 2101033

**LS1.0**

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## 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.

## GENERAL STRUCTURAL NOTES AND SPECIFICATIONS

## 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 GROUTED 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		

## DIVISION 6:

### STRUCTURAL (ROUGH) CARPENTRY NOTES:

- WOOD FOR STUDS, BEAMS, JOISTS, HEADERS, AND PLATES SHALL BE NO. 2 SOUTHERN YELLOW PINE, WITH MOISTURE CONTENT NOT TO EXCEED 15%. ALL WOOD LINTELS AND HEADERS SHALL HAVE NO SPLITS.
- PLYWOOD SHALL BE APA RATED SHEATHING WITH EXTERIOR GLUE. WHERE ROOF SHEATHING PANEL EDGES ARE NOT BLOCKED, INSTALL (1) PLYWOOD SHEATHING CLIP AT EACH SPANNING PANEL EDGE.
- ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, GROUND, OR EXPOSED TO WEATHER / MOISTURE, SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD U1.
- WOOD ROOF TRUSSES SHALL BE DESIGNED AND FABRICATED BY A MEMBER FIRM OF THE TRUSS PLATE INSTITUTE TO CARRY THE FULL DEAD AND LIVE LOADS INDICATED AT THE INDICATED SPACINGS AND SPANS. TRUSSES SHALL BE SECURELY BRACED DURING ERECTION AS WELL AS WITH PERMANENT BRACING, SUCH THAT TRUSSES ARE PLUMB AND STRAIGHT UNDER ALL INDICATED DEAD, LIVE, AND LATERAL LOADS. ENGINEERING DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. SEE FRAMING NOTES.
- UNLESS NOTED OTHERWISE, ALL FASTENING TO STRUCTURAL WOOD SHALL BE IN ACCORDANCE WITH TABLE 2304.10.1 OF THE 2018 NORTH CAROLINA BUILDING CODE. CONNECTIONS OF TRUSSES TO WOOD PLATES OR NAILER BEARINGS SHALL BE WITH STANDARD SIMPSON "HURRICANE" ANCHORS OR EQUAL.
- WHERE INDICATED "MICROLLAM" LVL LUMBER SHALL BE EQUAL TO THAT AS MANUFACTURED BY THE TRUS JOIST CORPORATION, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S STANDARDS.

### PRE-ENGINEERED WOOD TRUSS NOTES:

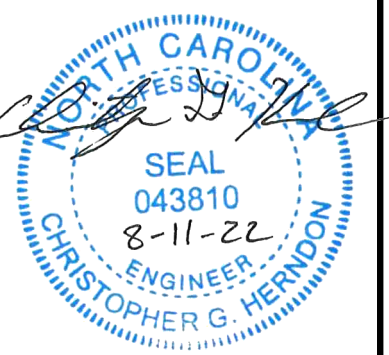
- REFER TO DESIGN CRITERIA NOTES IN CONJUNCTION WITH THESE NOTES.
- ALL ROOF MEMBERS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES, ETC. WOOD ROOF TRUSSES SHALL BE DESIGNED AND FABRICATED BY A MEMBER FIRM OF THE TRUSS PLATE INSTITUTE, TO CARRY THE FULL DEAD AND LIVE LOADS INDICATED AT THE INDICATED SPACINGS AND SPANS. TRUSSES SHALL BE SECURELY BRACED DURING ERECTION AS WELL AS WITH PERMANENT BRACING, SUCH THAT TRUSSES ARE PLUMB AND STRAIGHT UNDER ALL INDICATED DEAD, LIVE, AND LATERAL LOADS. ALL WOOD ROOF TRUSSES, METAL CONNECTORS, HANGERS, ETC., REQUIRED FOR THE COMPLETE ROOF FRAMING SYSTEM SHALL BE DESIGNED AND SPECIFIED BY TRUSS MANUFACTURER'S STRUCTURAL ENGINEER. TRUSS MANUFACTURER SHALL SUBMIT DETAILED SHOP DRAWINGS AND CALCULATIONS BEARING STRUCTURAL ENGINEER'S STAMP PRIOR TO FABRICATION.
- WOOD ROOF TRUSS SYSTEM SHALL BE FABRICATED TO PROVIDE THE ROOF LINES INDICATED ON THE ARCHITECTURAL PLANS, SECTIONS, AND ELEVATIONS.
- ROOF TRUSSES ARE NOT STABLE UNTIL PROPERLY BRACED AND SHEATHED. PROPER HANDLING, SAFETY PRECAUTIONS, AND TEMPORARY BRACING ARE THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY BRACING DURING CONSTRUCTION IS REQUIRED, AND SHALL BE PROVIDED BY CONTRACTOR. IN ADDITION TO THE PERMANENT BRACING NEEDED TO REDUCE BUCKLING LENGTH OF INDIVIDUAL MEMBER, CONTRACTOR SHALL ENSURE THAT ALL TRUSSES ARE STABLE AND PLUMB DURING INSTALLATION OF PERMANENT BRACING.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY BRACE ROOF FRAMING INCLUDING BOTH TEMPORARY AND PERMANENT BRACING, EVEN THOUGH ALL BRACING MAY NOT NECESSARILY BE SHOWN ON THESE DRAWINGS. BRACING SHOWN ON ROOF FRAMING PLAN, BUILDING CROSS SECTIONS, ETC., AND ROOF TRUSS MANUFACTURER'S SHOP DRAWINGS IS SPECIAL BRACING REQUIRED IN ADDITION TO NORMAL BRACING RECOMMENDATIONS.
- PERMANENT TRUSS TOP CHORD BRACING: PLYWOOD ROOF SHEATHING
- PERMANENT TRUSS CHORD BOTTOM CHORD BRACING: GYPSUM BOARD CEILING OR RIGID SOFFIT. PROVIDE CONTINUOUS 2x4 BOTTOM CHORD BRIDGING AT 10 FT. MAX ON CENTER WHERE GYPSUM BOARD CEILING OR RIGID SOFFIT DOES NOT EXIST. ANCHOR EACH END OF EACH LINE OF CONTINUOUS BOTTOM CHORD BRIDGING WITH DIAGONAL BRACING TO FORM A "BRACED BAY" ACROSS STRUCTURE IN THE PLANE OF THE BOTTOM CHORD.
- PERMANENT TRUSS VERTICAL WEB BRACING: 2x4 CROSS BRACING INSTALLED IN THE PLANE OF THE WEBS AS TRUSSES ARE ERECTED. AT EACH WEB REQUIRING BOTTOM CHORD BRIDGING, BUT NOT TO EXCEED 18 FOOT INTERVALS ALONG LENGTH OF TRUSS.
- TYPICAL BRACING MEMBERS TO BE 2x4 (MINIMUM) CONNECTED TO TRUSS WITH MIN. (2) 16d NAILS AT EACH TRUSS. MIN. LENGTH OF EACH BRACING MEMBER TO BE 8 FT. CROSS AND DIAGONAL BRACES TO RUN AT APPROXIMATELY 45 DEGREE ANGLES.
- ALL WOOD ROOF TRUSSES SHALL BE CONNECTED TO BEARING WALL TOP PLATES WITH "SIMPSON STRONG TIE" STANDARD METAL HURRICANE ANCHORS AT EACH END, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- PROVIDE AND INSTALL METAL H CLIPS AT ALL PLYWOOD BUTT JOINTS WHICH OCCUR BETWEEN ROOF TRUSSES OR RAFTERS WHICH ARE SPACED GREATER THAN 16"o.c.
- IT SHALL BE THE ROOF TRUSS MANUFACTURER'S RESPONSIBILITY TO VERIFY WITH THE GENERAL CONTRACTOR THE SIZES, WEIGHTS, AND LOCATIONS, ETC. OF ALL THE EQUIPMENT AND MATERIALS, SUCH AS HVAC EQUIPMENT AND ETC., TO BE LOCATED OR SUSPENDED BELOW ROOF TRUSSES, ETC. AND DESIGN TRUSSES TO SUPPORT THESE ADDITIONAL LOADS.
- COORDINATE WOOD TRUSS TAILS, CANTILEVERS, AND END DIMENSIONS WITH ARCHITECTURAL WALL SECTIONS AND EAVE DETAILS.
- TRUSS DESIGN LOADS U.N.O. OR SCHEDULED SHALL BE AS FOLLOWS:
 

TOP CHORD LIVE LOAD	20 PSF
BOTTOM CHORD LIVE LOAD	10 PSF (NON-ATTIC AREAS)
	20 PSF (OR WEIGHT OF MECHANICAL UNITS AS REQUIRED (ATTIC AREAS))
WIND UPLIFT	15 PSF (" OR PER TRUSS MANUFACTURER)
TOP CHORD DEAD LOAD	10 PSF
BOTTOM CHORD DEAD LOAD	10 PSF

## DIVISION 31:

### FOUNDATION EARTHWORK NOTES:

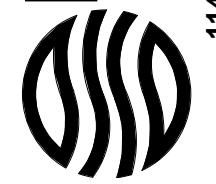
- FOUNDATION SIZES AND ELEVATIONS ARE BASED ON AN ASSUMED ALLOWABLE SAFE SOIL BEARING CAPACITY OF 2,000 PSF. FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR STRUCTURALLY COMPACTED FILL OF AT LEAST THIS WORKING SAFE CAPACITY. IF SOIL OF THIS QUALITY IS NOT FOUND AT THE ELEVATIONS INDICATED, FOOTINGS MAY NEED TO BE LOWERED OR ENLARGED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER.
- FOUNDATION PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH RECOMMENDATIONS MADE BY PROJECT GEOTECHNICAL ENGINEER.
- ALL STRUCTURALLY COMPACTED FILL SHALL BE OF MATERIAL CLASSIFIED CL, ML, SC, SM, SP, SW, GC, GM, OR GW ACCORDING TO ASTM D-2487. FREE FROM CLAY BALLS, TRASH, DEBRIS, OR OTHER DELETERIOUS MATTER.
- AFTER STRIPPING MATERIAL FROM AREA TO BE GRADED, REMOVE ALL UNSUITABLE MATERIAL FROM EXPOSED SUB-GRADE, SUCH AS DEBRIS, TRASH, ORGANIC MATTER, OR SOFT SOIL. SOIL SURFACES RECEIVING COMPACTED STRUCTURAL FILL SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. AREAS EXHIBITING EXCESSIVE PUMPING, WEAVING, OR RUTTING SHALL BE EXCAVATED AND REPLACED WITH COMPACTED STRUCTURAL FILL OR SCARIFIED, DRIED, AND RECOMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL.
- ALL FILL SHALL BE PLACED IN 6"-8" UNCOMPACTED LIFTS (MAXIMUM) AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR). THE MOISTURE CONTENT OF FILL AT TIME OF PLACEMENT SHALL BE WITHIN +/- 2% OF THE OPTIMUM MOISTURE CONTENT DETERMINED IN THE LABORATORY. COMPACTED FILL SUB-GRADES WITH A SLOPE GREATER THAN 4H:1V SHALL BE BENCHMARKED TO ALLOW PLACEMENT OF HORIZONTAL LIFTS.
- ALL FOUNDATION EXCAVATIONS SHALL BE OBSERVED BY THE PROJECT GEOTECHNICAL ENGINEER, AND APPROVED FOR FOOTINGS, PRIOR TO PLACING CONCRETE. ALL FOUNDATIONS SHALL BE CONCRETED PROMPTLY FOLLOWING INSPECTION.
- CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING CONSTRUCTION TO DIRECT WATER AWAY FROM FOUNDATION CONSTRUCTION AREAS. ANY SUB-GRADE SOILS WEAKENED BY THROUGH SATURATION OR DISTURBANCE SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
- CONTRACTOR SHALL COORDINATE EXTERIOR SITE WORK, INCLUDING STEPS, WALKS, WALLS, AND FINISHED GRADES, WITH FOUNDATION WORK.



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 NC Firm License # F-1429

• Hampton Roads, VA  
 • Fayetteville, NC  
 • Northern Virginia  
 • Charlottesville, VA  
 • Richmond, VA  
 • Blacksburg, VA



**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:	8/11/22	
PROJECT NUMBER:	2101033	

**S0.1**

**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:  HGA  City/County  Private  State  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, 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  
 1<sup>st</sup> 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  
 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:**  A  B  C  D

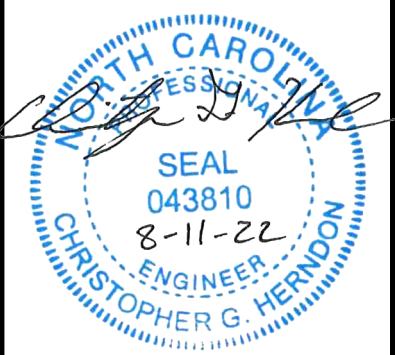
Provide the following Seismic Design Parameters:

**Risk Category** (Table 1604.5)  I  II  III  IV  
**Spectral Response Acceleration** S<sub>s</sub> 20.5 %g S<sub>1</sub> 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:**  Yes  No  
**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



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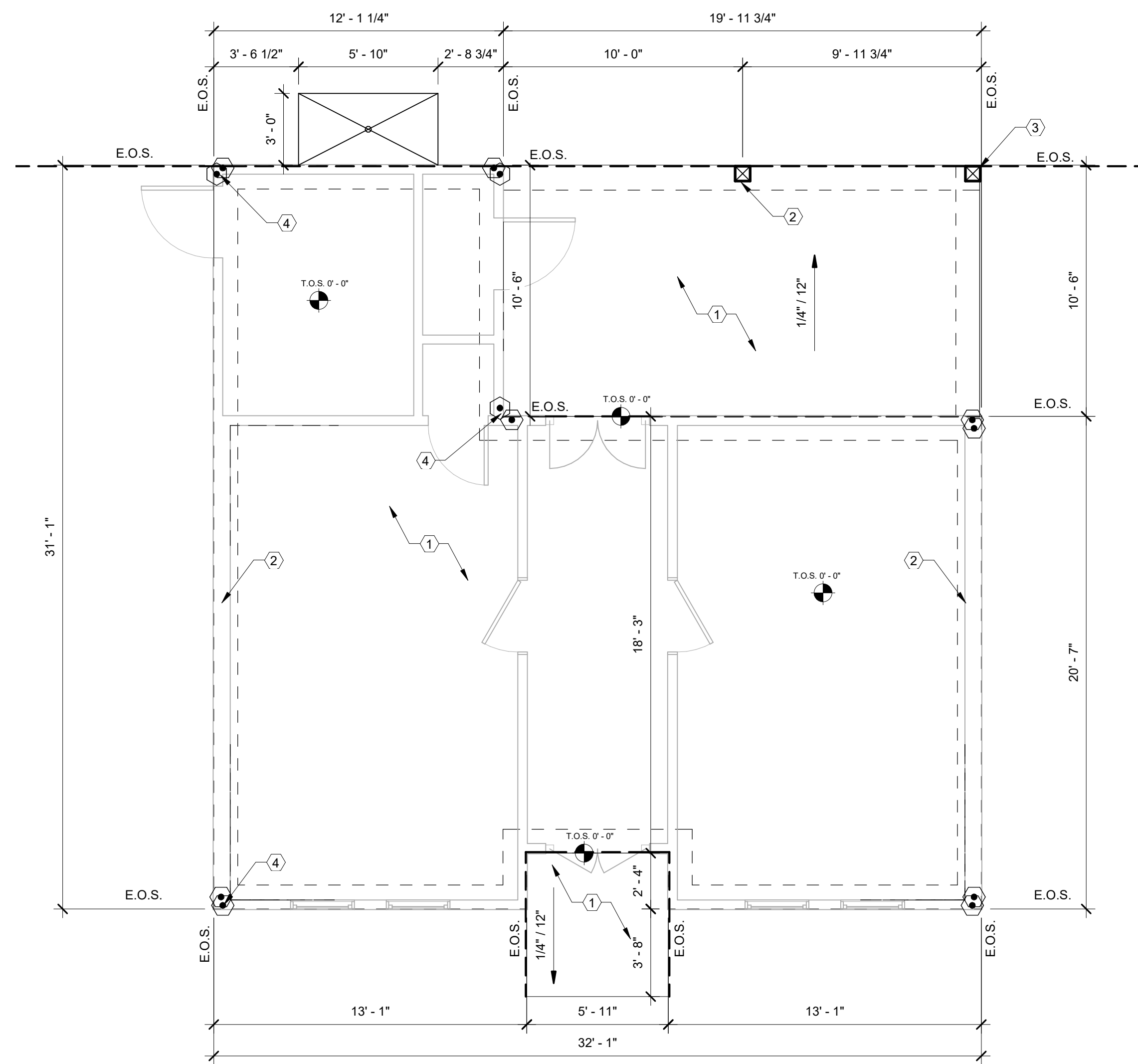
**APPENDIX B**  
**Lexington Plantation Pool House**  
 400 Centennial Parkway Cameron, NC 28326

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: CGH  
 DRAWN BY: CGH  
 CHECKED BY: DWS  
 SCALE:  
 DATE: 8/11/22  
 PROJECT NUMBER: 2101033

**S0.2**



### FOUNDATION 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:

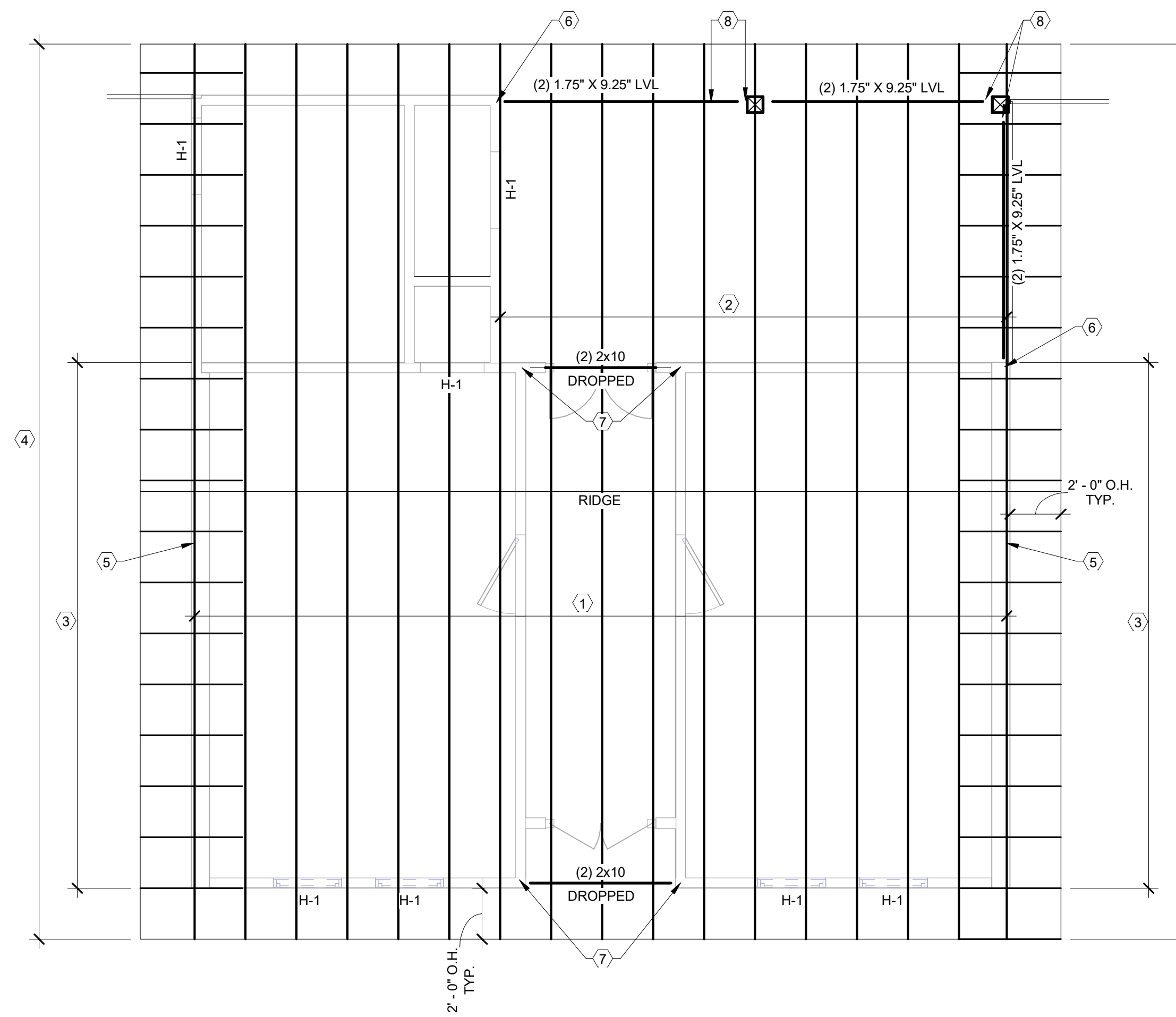
- 4" CONC. SLAB ON GRADE REINFORCED W/ 6X6-W1.4XW1.4 MID-DEPTH OVER 10 MIL VAPOR BARRIER ON 4" COMPACTED POROUS FILL.
- TURNDOWN SLAB AT PERIMETER, TYP. SEE "FOUNDATION PLAN GENERAL NOTES"
- 8X8 PRESSURE TREATED POST, TYP. SECURE TO CONC. SLAB W/ SIMPSON CPT88Z CONCEALED POST TIE W/ (2) 1/2" Ø HOT DIP 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

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

#### 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:

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

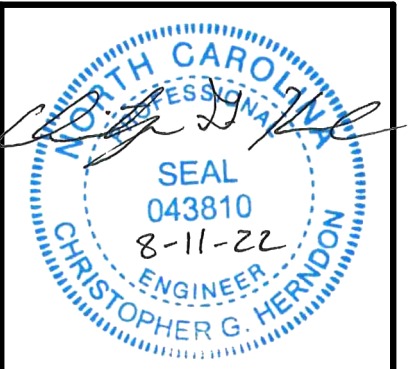
WOOD HEADER SCHEDULE		
HEADER MARK	HEADER DESCRIPTION	SUPPORT EA. END
H-1	(2) 2X6	(2) JACK STUDS

**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



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NC Firm License # F-1429

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

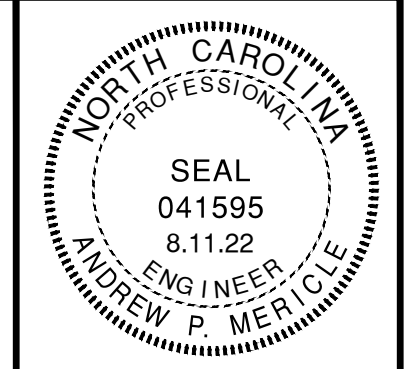
REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: CGH  
DRAWN BY: CGH  
CHECKED BY: DWS  
SCALE: As indicated  
DATE: 8/11/22  
PROJECT NUMBER: 2101033

**S1.0**

# LEXINGTON PLANTATION POOL

## HARNETT COUNTY, NORTH CAROLINA



**Draper Aden Associates**  
*Engineering • Surveying • Environmental Services*

114 Edinburg South Drive, Suite 200  
 Cary, NC 27511  
 919-473-1060 Fax: 919-473-1074  
 NC Firm License # F-1429

• Hampton Roads, VA  
 • Fayetteville, NC  
 • Northern Virginia  
 • Virginia Beach, VA  
 • Richmond, VA  
 • Blacksburg, VA  
 • Charlottesville, VA

**PARCEL DATA**  
 OWNER/DEVELOPER: VOLA, LLC  
 PO BOX 1328  
 CARY, NC 27512

**ZONING:** 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

**PIN:** 9594-09-9184

**DEED REFERENCE:** BOOK 2948, PAGE 429

**FLOOD PLAIN INFO:**  
 ZONE: X  
 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

- NOTES:**
- 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 APURTENANCES
  - THIS DEVELOPMENT IS WITHIN THE FIVE MILE MILITARY CORRIDOR OVERLAY ZONE, AND MAY BE SUBJECT TO MILITARY TRAINING ACTIVITIES.
  - 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 UTILITY CONTRACTOR.
  - 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.

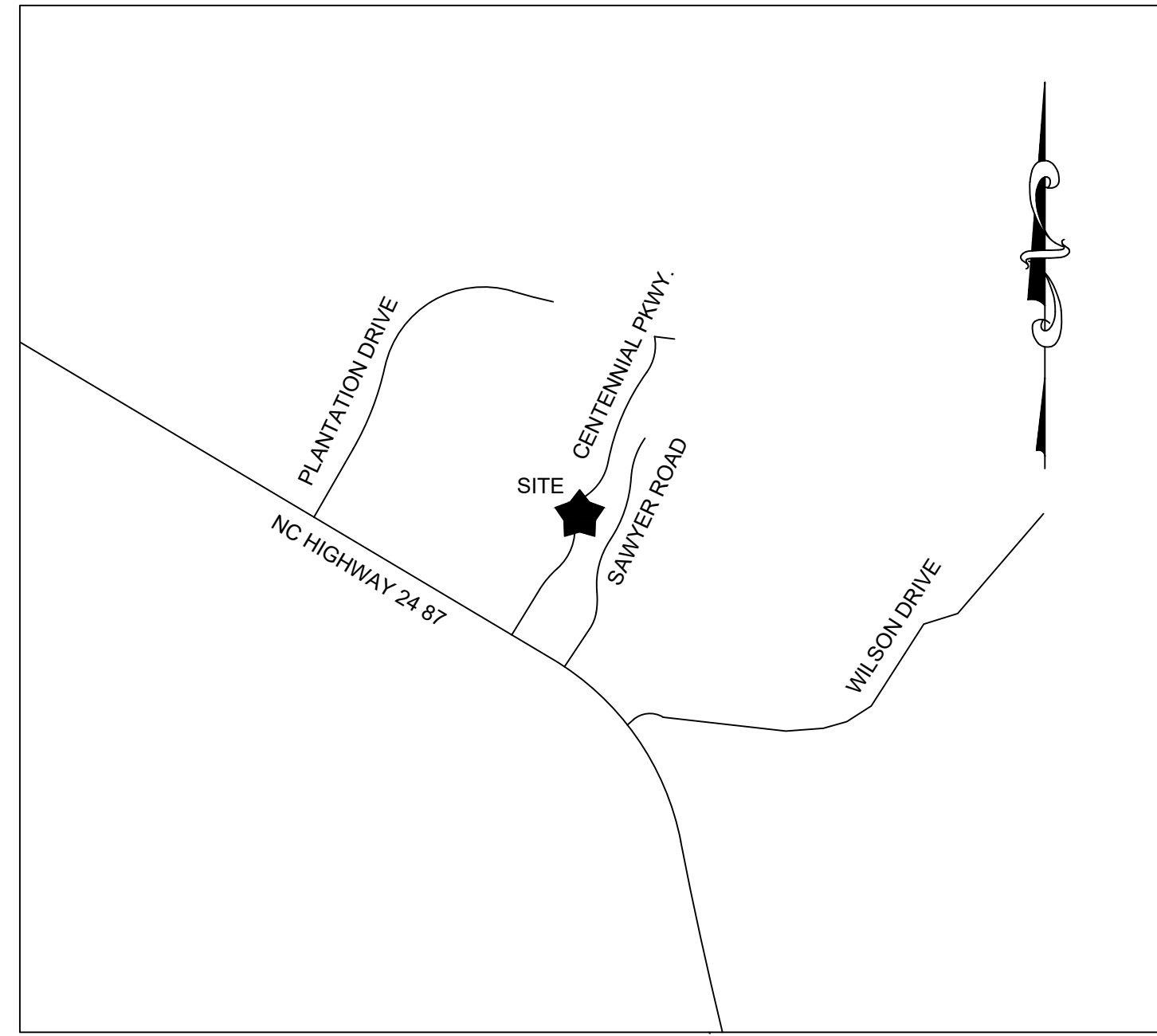
**TYPE "A" - (MINIMUM WIDTH OF 15 FEET)**  
 OPTION 1: A ROW OF EVERGREEN SHRUBS PLACED NOT MORE THAN FOUR(4) TO SIX(6) FEET APART WHICH WILL GROW TO FORM A CONTINUOUS HEDGE OF AT LEAST SIX(6) FEET IN HEIGHT WITHIN TWO(2) YEARS OF PLANTING; OR

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 HEIGHT.

OPTION 3: A BERM MEETING THE REQUIREMENTS OF HARNETT COUNTY UDO

**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.



**VICINITY MAP**  
NOT TO SCALE

Sheet List Table	
Sheet Number	Sheet Title
C1.0	COVER
C2.0	GENERAL NOTES
C2.1	ESC NOTES
C2.2	HRW NOTES
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

COVER  
**LEXINGTON PLANTATION POOL**  
 HARNETT COUNTY, NC

REVISIONS

DESIGNED BY:
DRAWN BY:
CHECKED BY:
SCALE: NONE
DATE: 4.26.22
PROJECT NUMBER: 2101033-01

**C1.0**

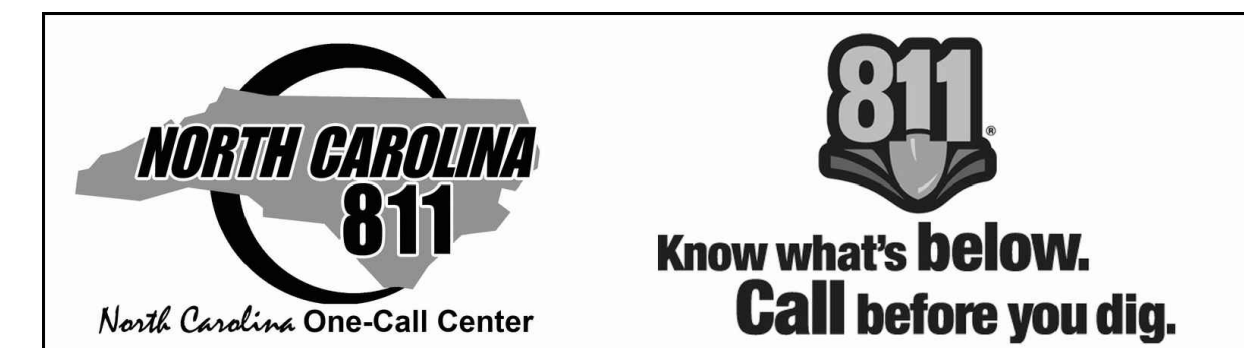
### DRAPER ADEN ASSOCIATES REVIEW

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

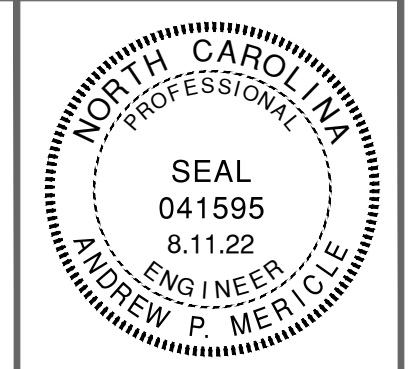
DATE \_\_\_\_\_ OWNER SIGNATURE \_\_\_\_\_











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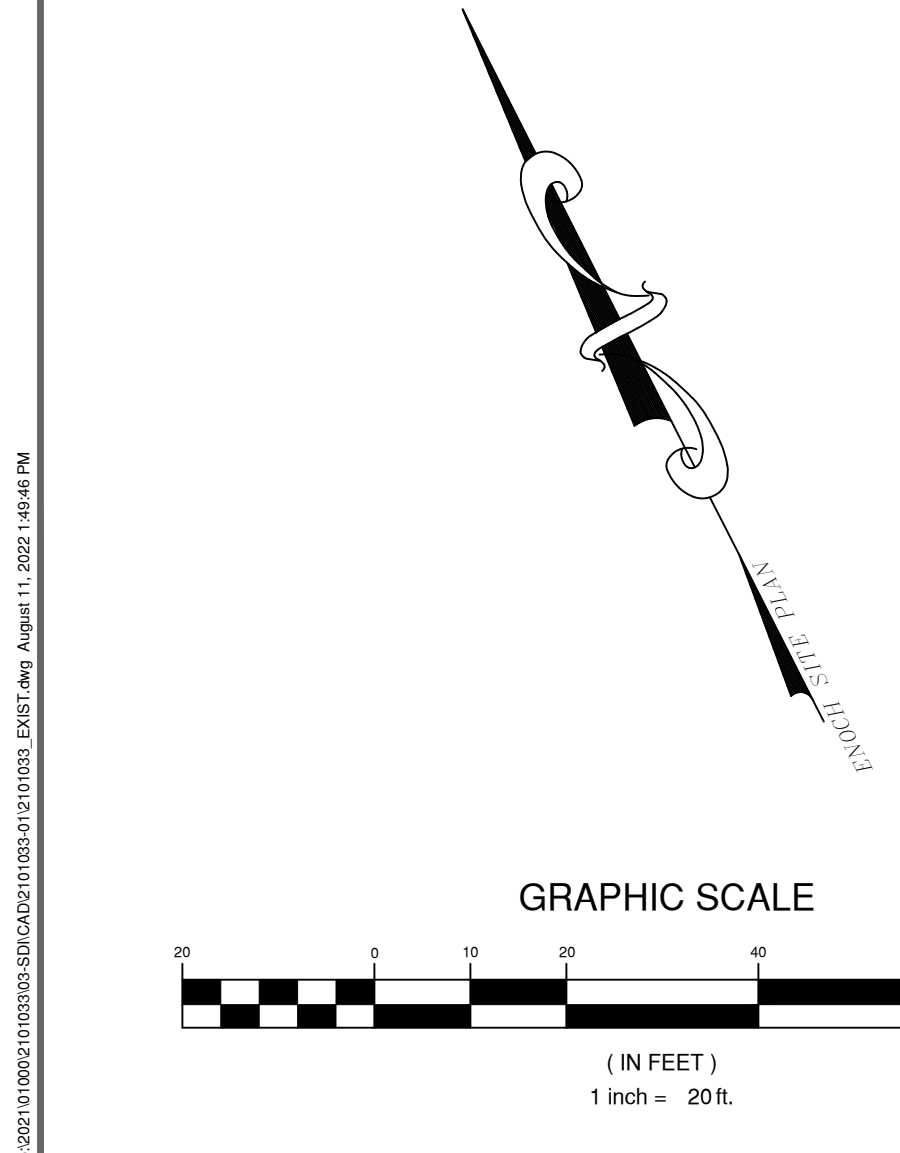
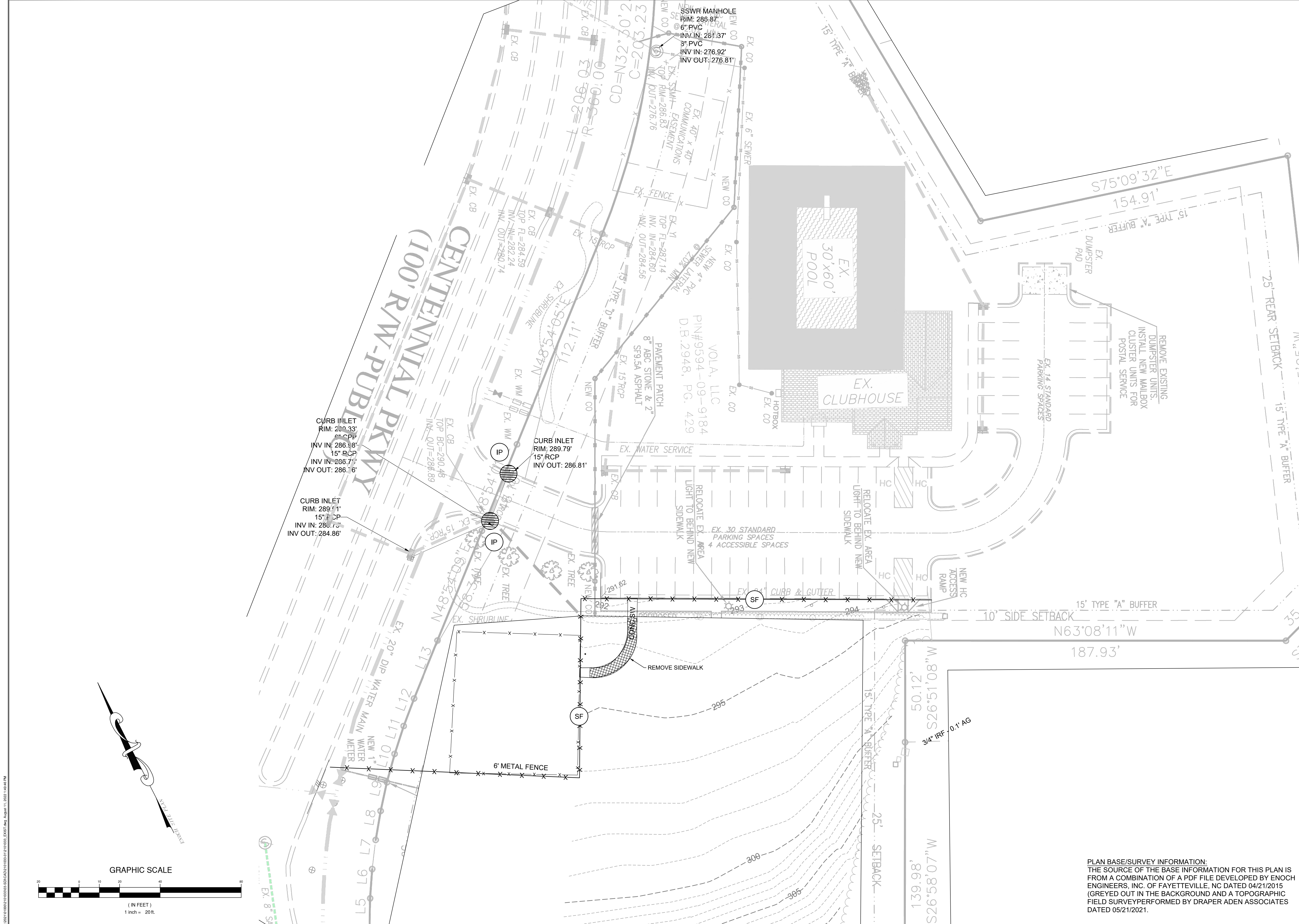
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- Northern Virginia
- Virginia Beach, VA
- Richmond, VA
- Blacksburg, VA
- Charlottesville, VA



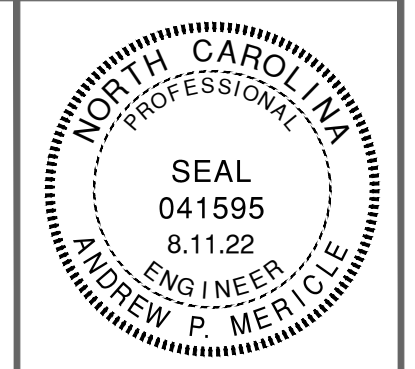
**EXISTING CONDITIONS, DEMO, & ESC PLAN**  
**LEXINGTON PLANTATION POOL**  
 HARNETT COUNTY, NC

REVISIONS	
DESIGNED BY:	APM
DRAWN BY:	APM
CHECKED BY:	APM
SCALE:	1" = 20'
DATE:	4.26.22
PROJECT NUMBER:	2101033-01
<b>C3.0</b>	

**PLAN BASE/SURVEY INFORMATION:**  
 THE SOURCE OF THE BASE INFORMATION FOR THIS PLAN IS FROM A COMBINATION OF A PDF FILE DEVELOPED BY ENOCH ENGINEERS, INC. OF FAYETTEVILLE, NC DATED 04/21/2015 (GREYED OUT IN THE BACKGROUND AND A TOPOGRAPHIC FIELD SURVEY PERFORMED BY DRAPER ADEN ASSOCIATES DATED 05/21/2021).



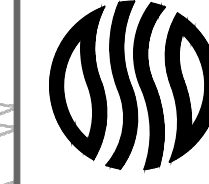
©2022 10/10/2022 10:50:53 AM C:\Users\apm\OneDrive\Documents\2101033-01\2101033-01.dwg August 11, 2022 1:49:44 PM



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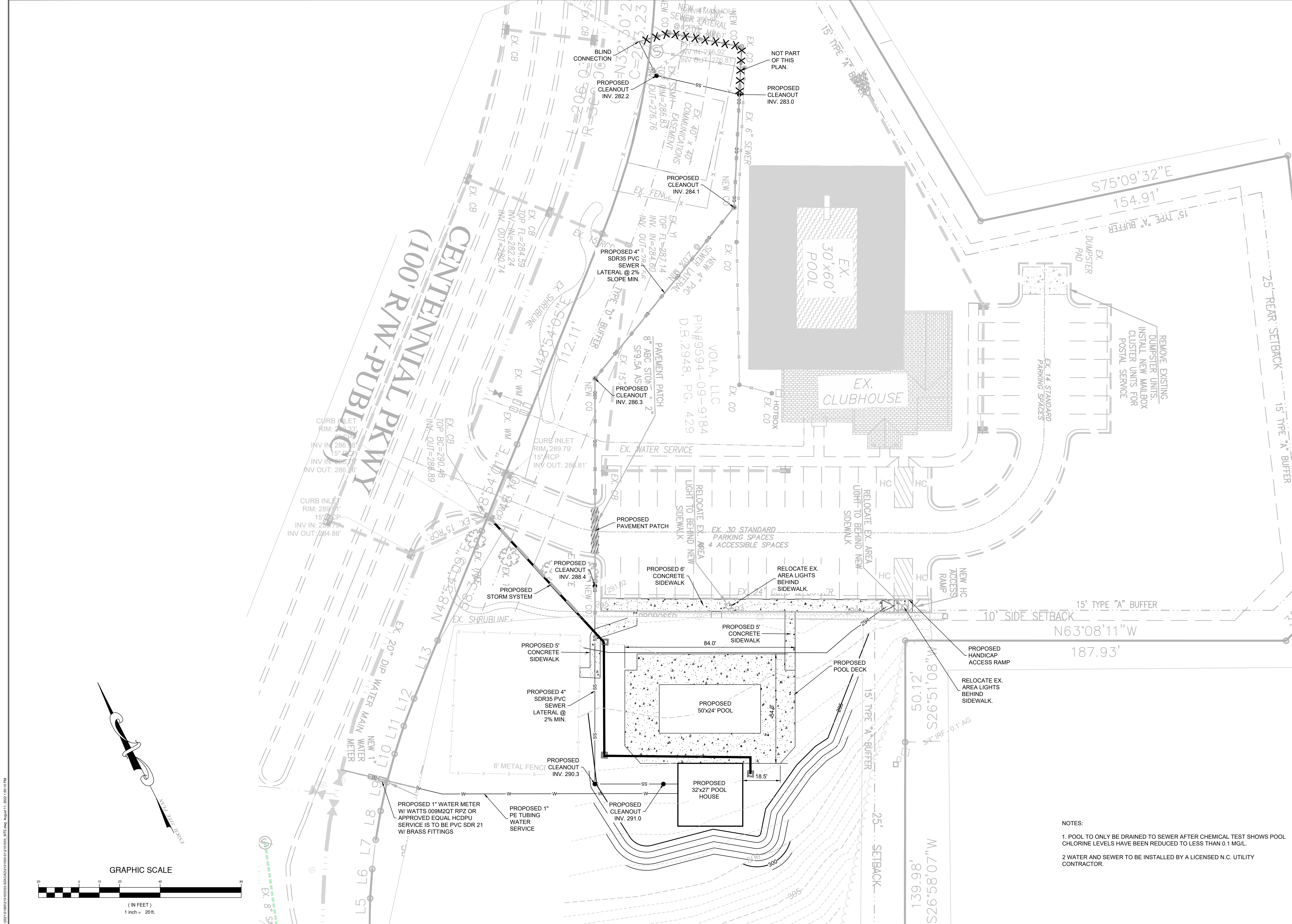
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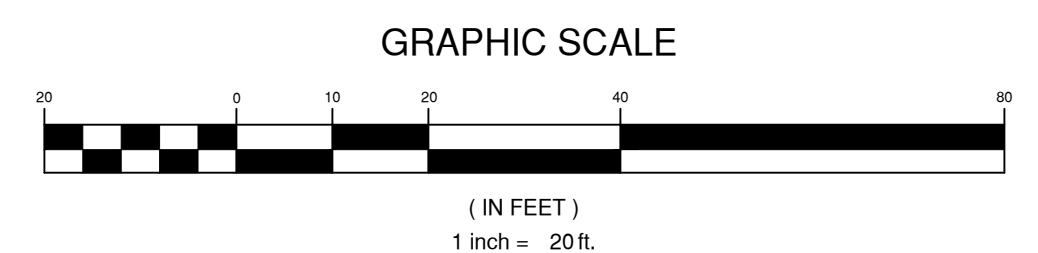
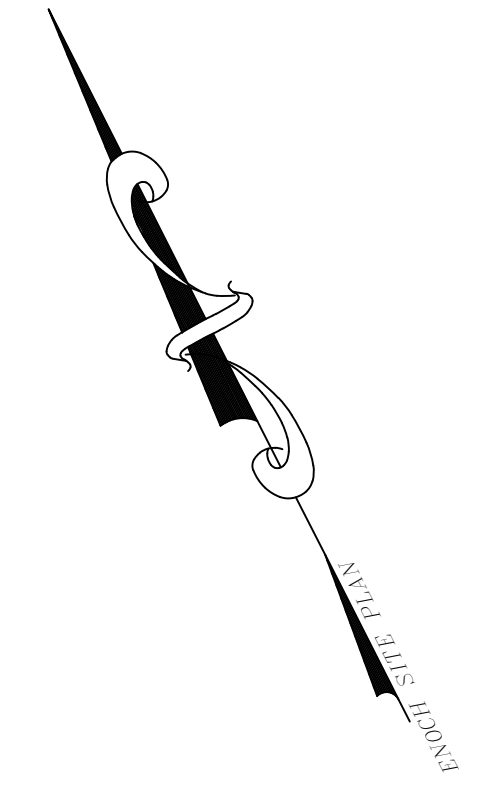
**SITE & UTILITY PLAN**  
**LEXINGTON PLANTATION POOL**  
 HARNETT COUNTY, NC

REVISIONS	
DESIGNED BY:	APM
DRAWN BY:	APM
CHECKED BY:	APM
SCALE:	1" = 20'
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<b>C4.0</b>	



**NOTES:**

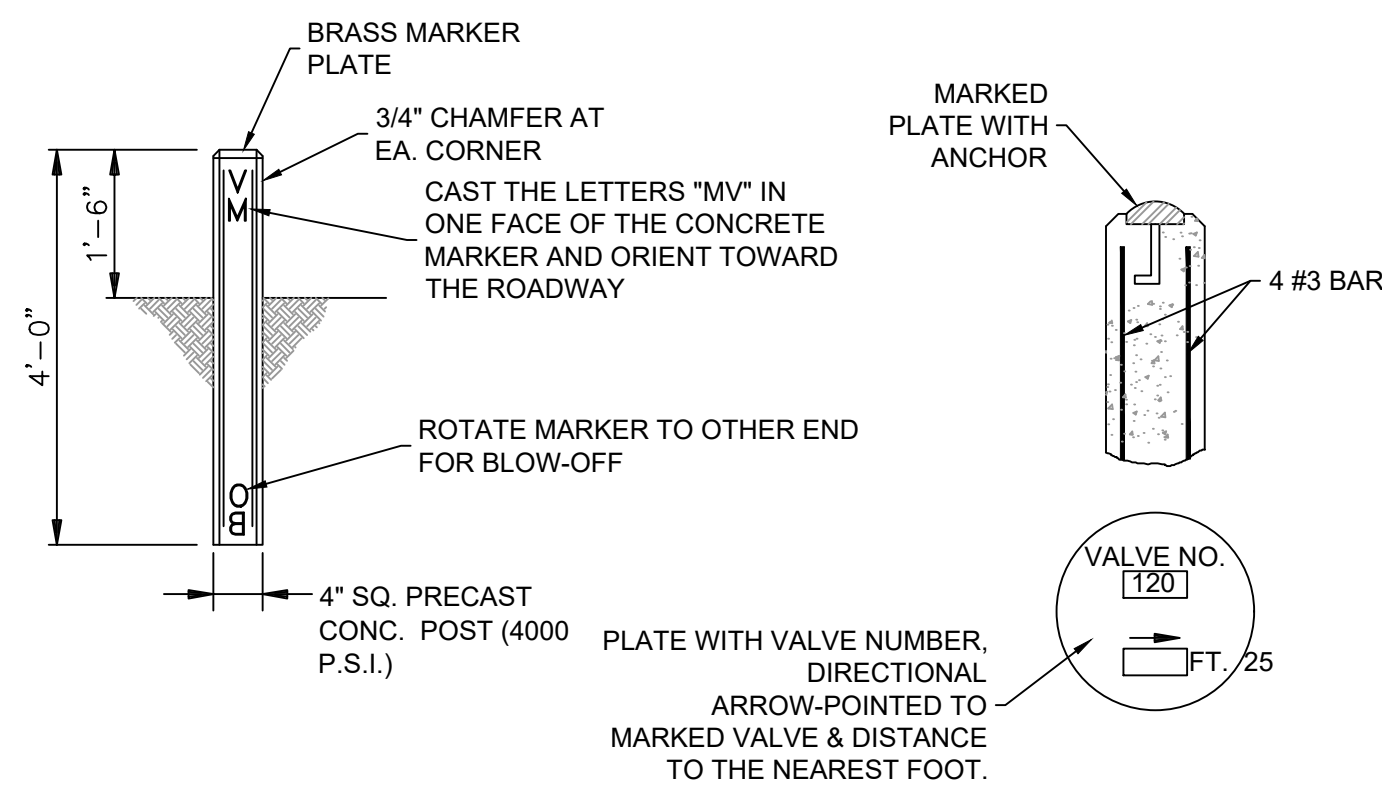
1. POOL TO ONLY BE DRAINED TO SEWER AFTER CHEMICAL TEST SHOWS POOL CHLORINE LEVELS HAVE BEEN REDUCED TO LESS THAN 0.1 MG/L.
2. WATER AND SEWER TO BE INSTALLED BY A LICENSED N.C. UTILITY CONTRACTOR.



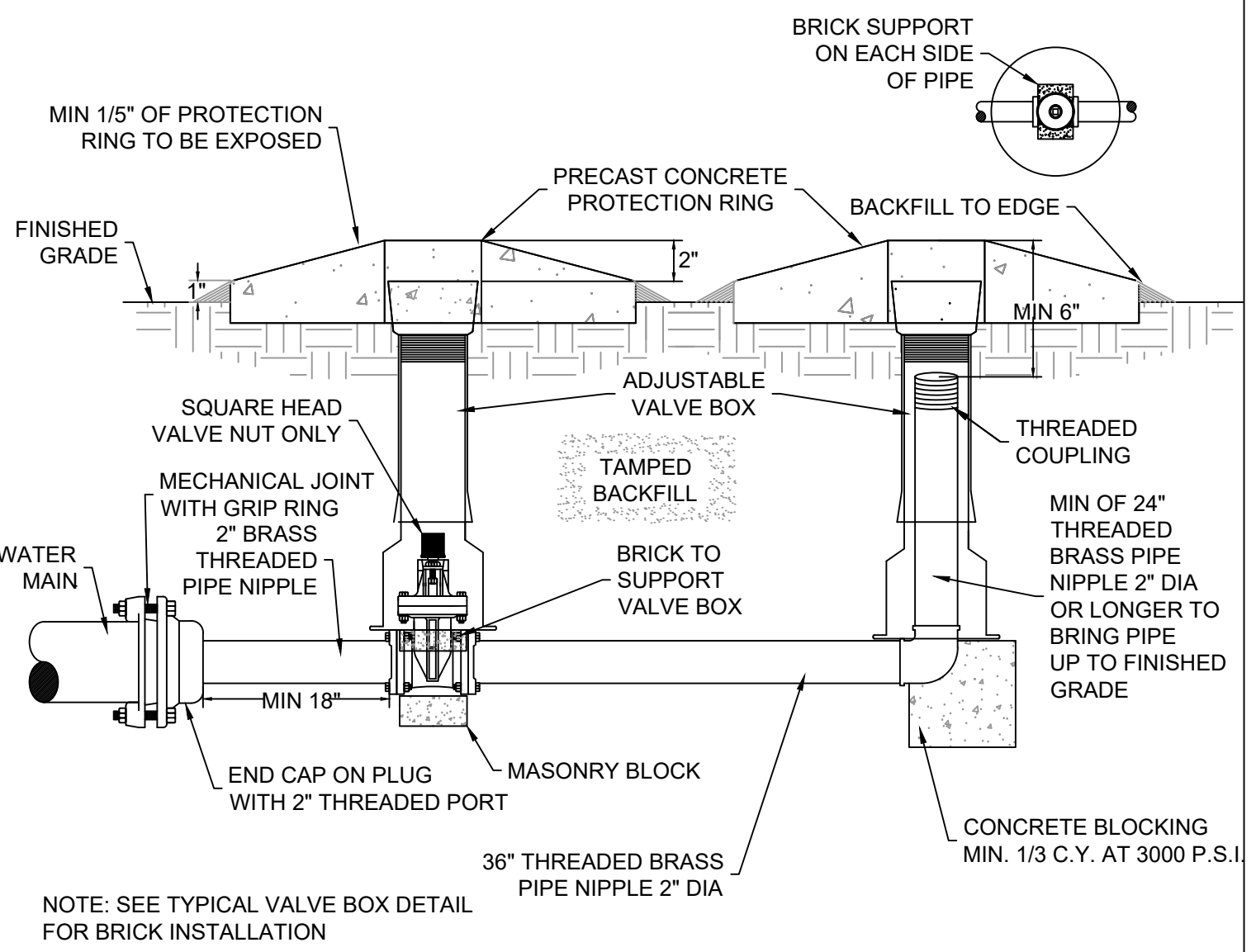
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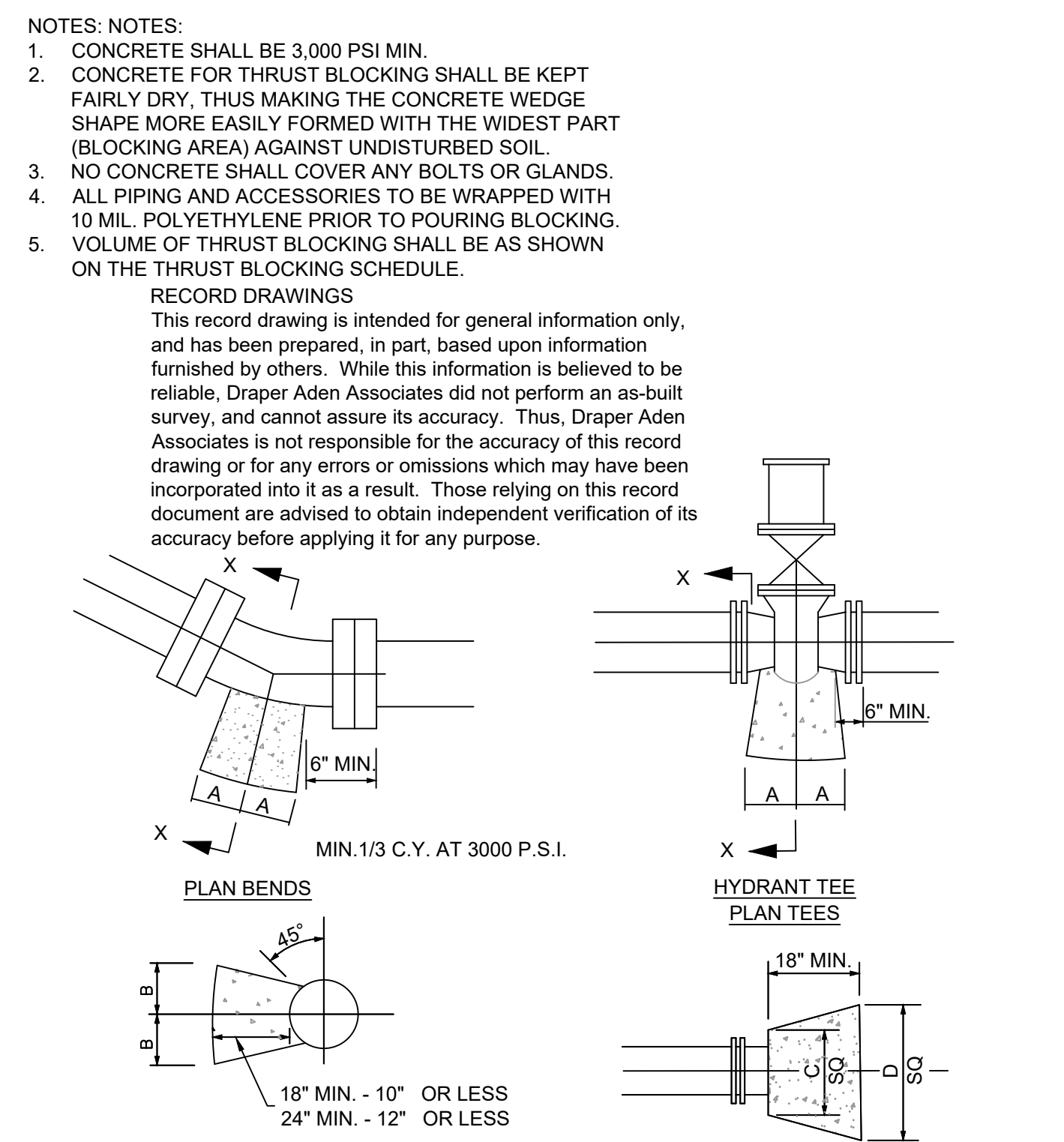




TYPICAL VALVE MARKER DETAIL W 1  
NOT TO SCALE

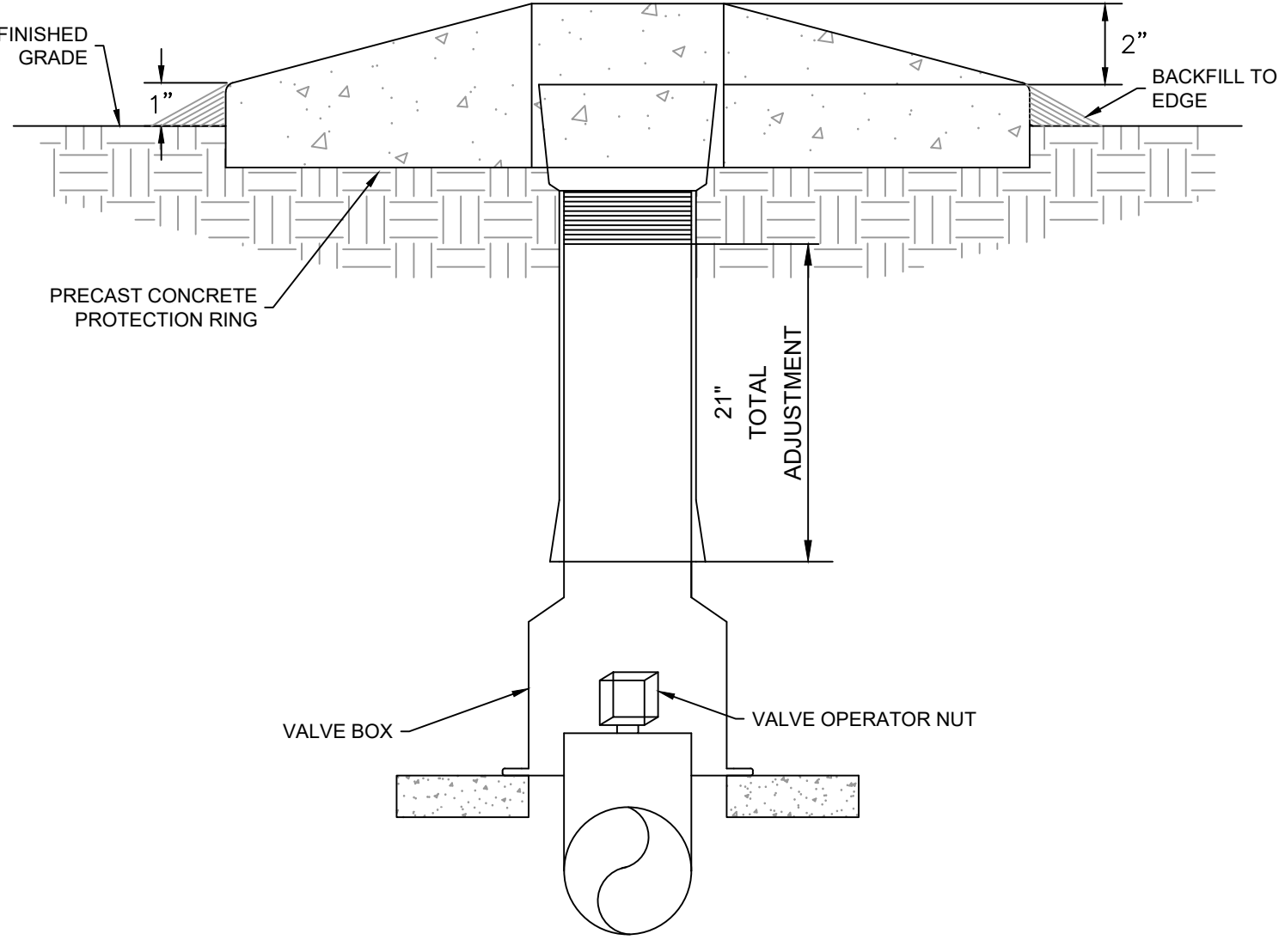


TYPICAL PERMANENT BLOW-OFF ASSEMBLY DETAIL W 4  
NOT TO SCALE

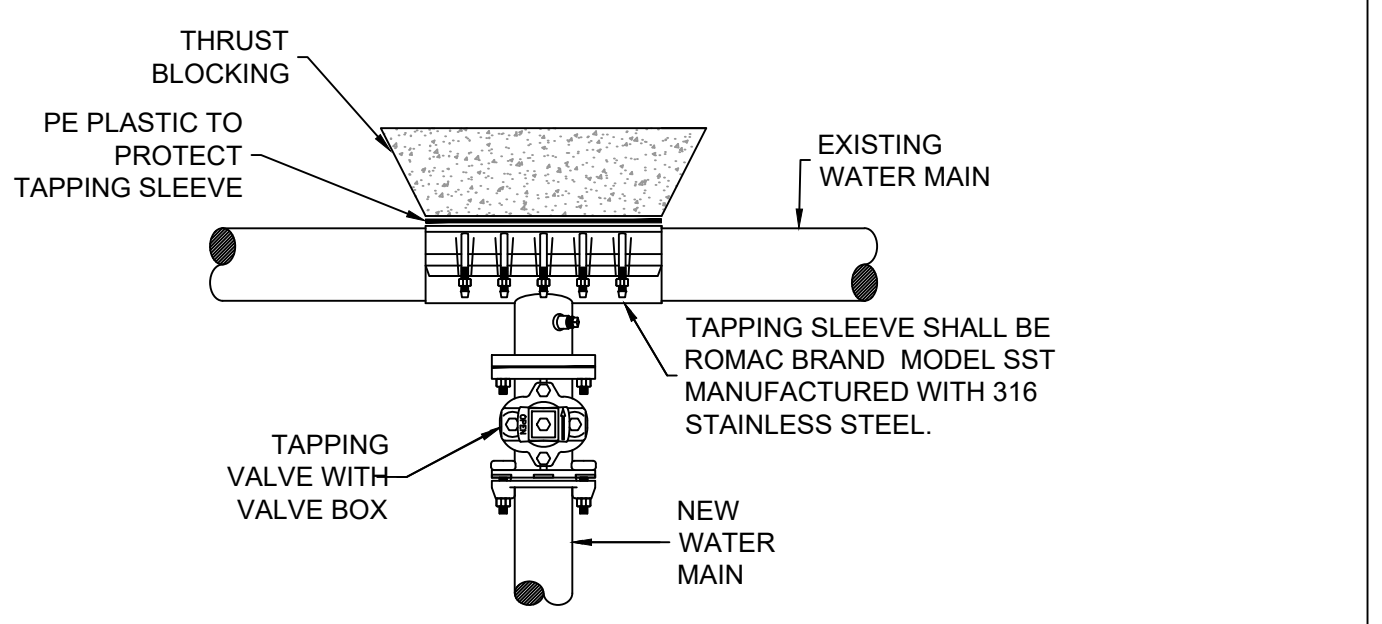


PIPE SIZE	90° BEND		45° BEND		22.5° BEND		11.25° BEND		TEE			PLUG	
	A	B	A	B	A	B	A	B	A	B	C		D
4"	8"	12"	8"	8"	6"	6"	6"	6"	6"	8"	9"	10"	16"
6"	10"	12"	8"	10"	8"	8"	8"	8"	10"	10"	12"	18"	
8"	15"	13"	10"	10"	8"	8"	8"	8"	10"	12"	12"	24"	
10"	16"	14"	10"	12"	6"	10"	6"	10"	11"	14"	14"	25"	
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"	
14"	22"	18"	14"	16"	10"	14"	10"	14"	16"	18"	18"	34"	
16"	26"	20"	16"	18"	12"	16"	12"	16"	18"	20"	20"	36"	

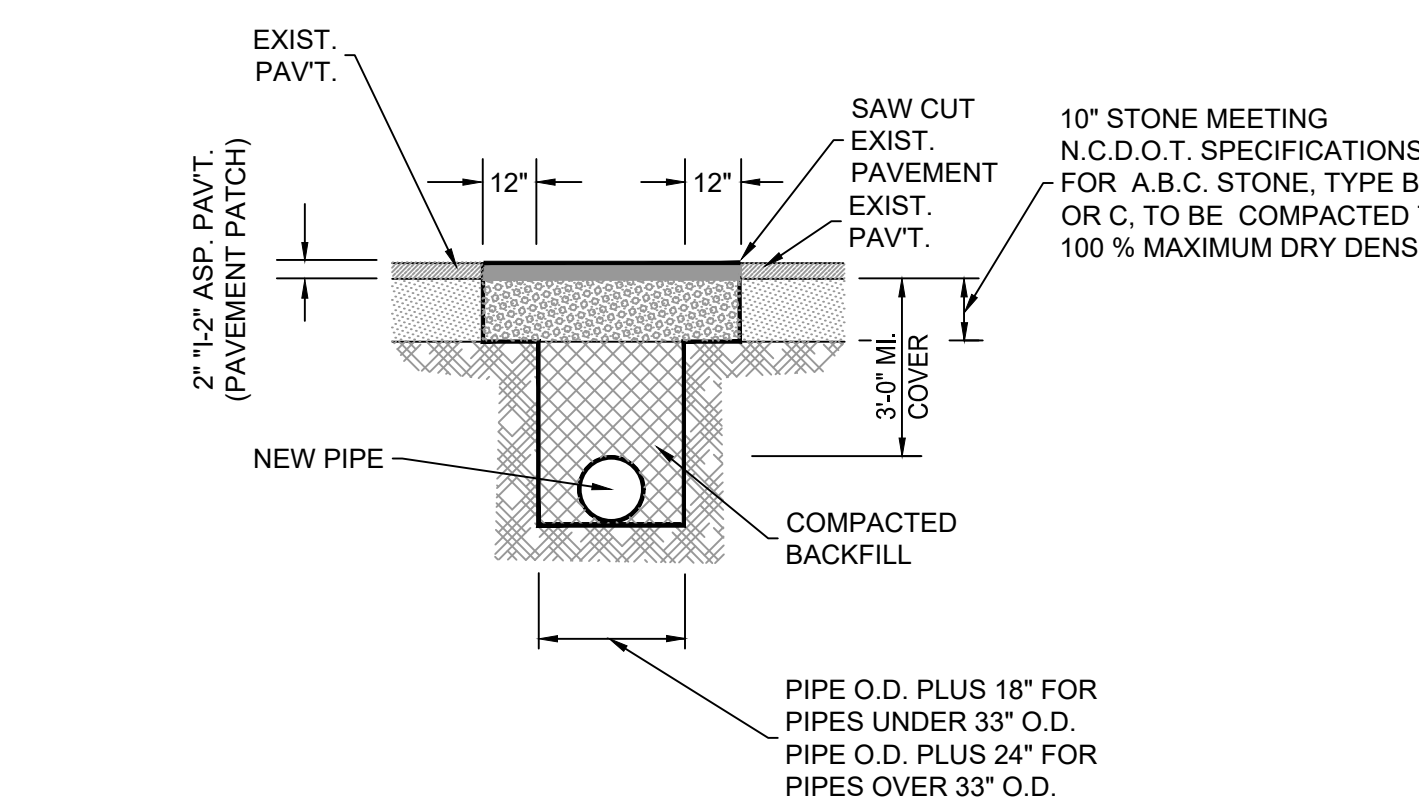
TYPICAL THRUST BLOCK DETAIL W 7  
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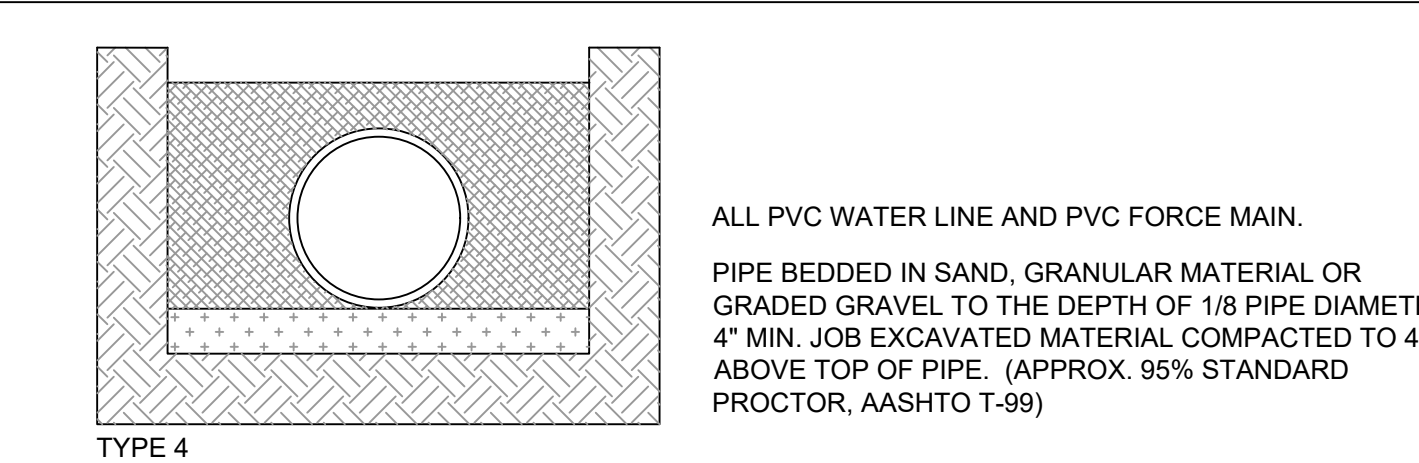
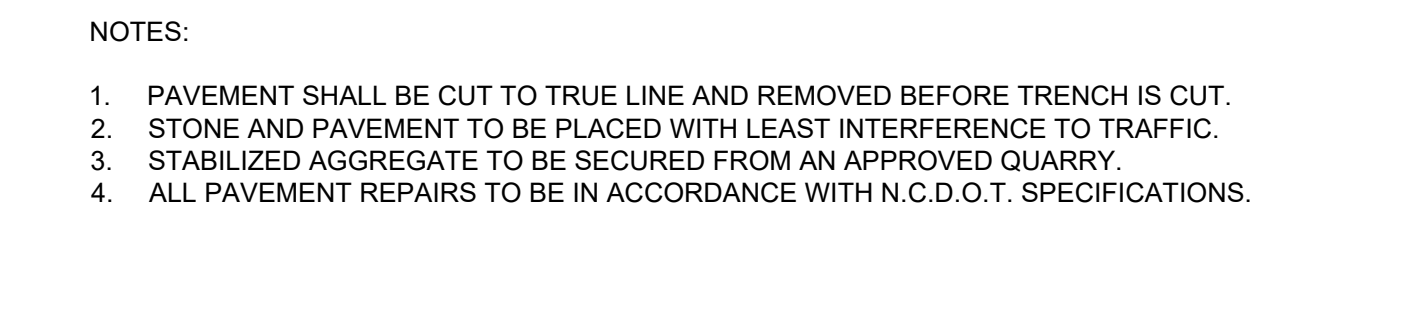
TYPICAL VALVE BOX DETAIL W 2  
NOT TO SCALE



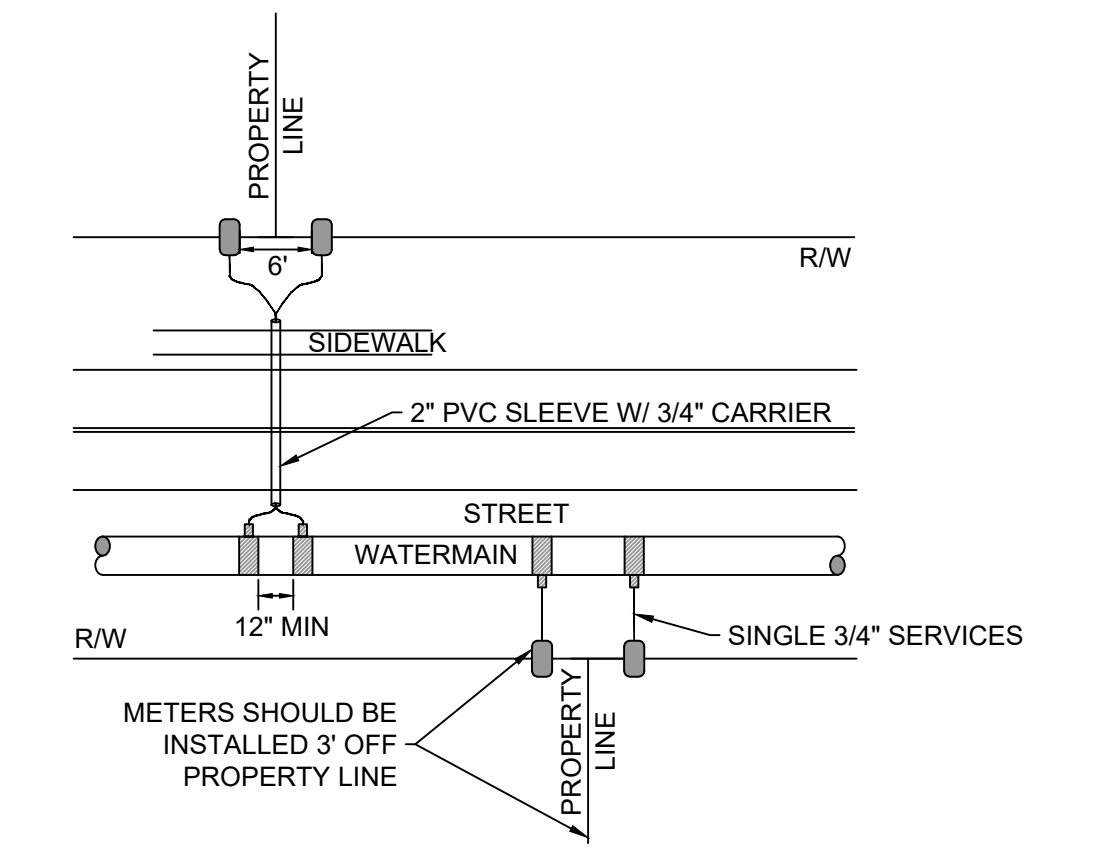
TYPICAL TAPPING SLEEVE AND VALVE ASSEMBLY DETAIL W 5  
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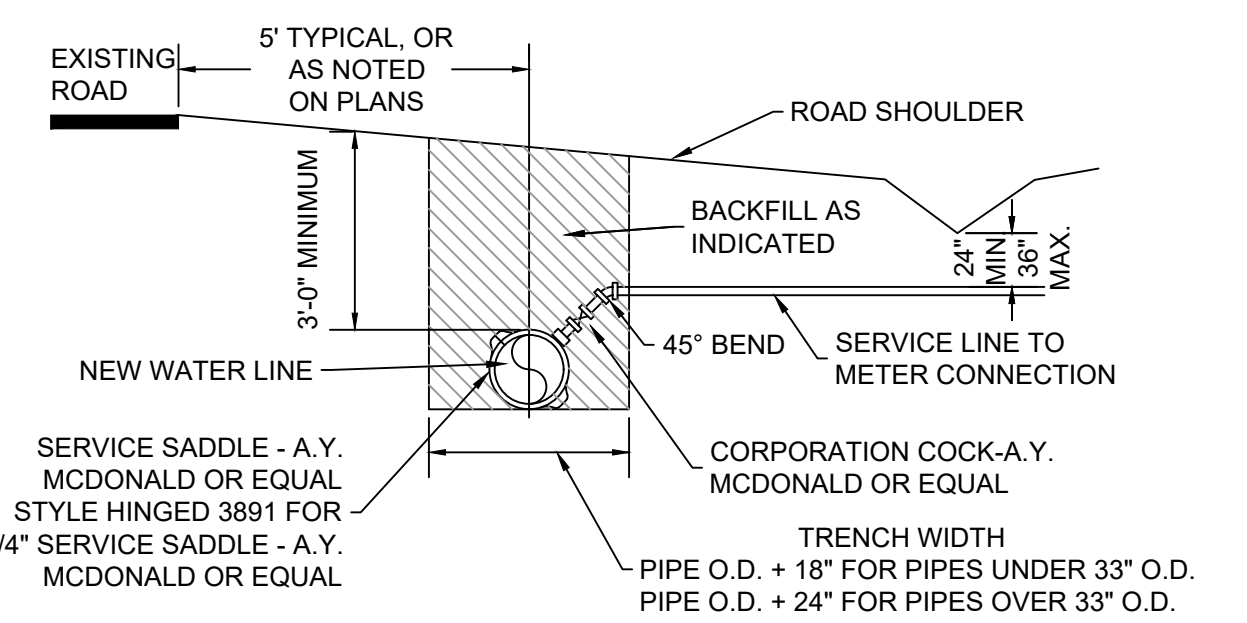
TYPICAL TRENCH IN BITUMINOUS SURFACE AREAS DETAIL W 10  
NOT TO SCALE



TYPICAL LAYING CONDITIONS DETAIL W 11  
NOT TO SCALE

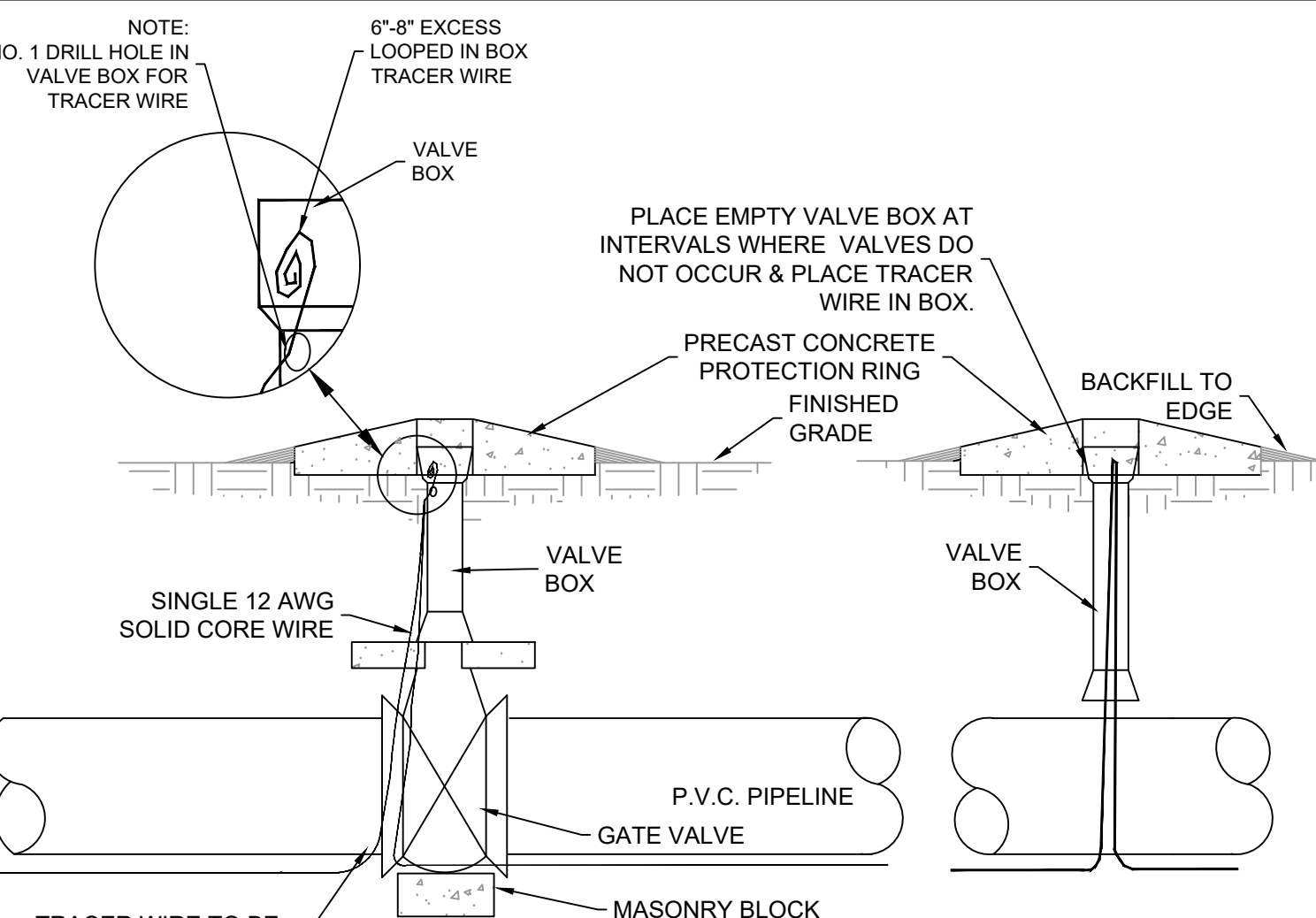


TYPICAL DOMESTIC WATER SERVICE INSTALLATION DETAIL W 12  
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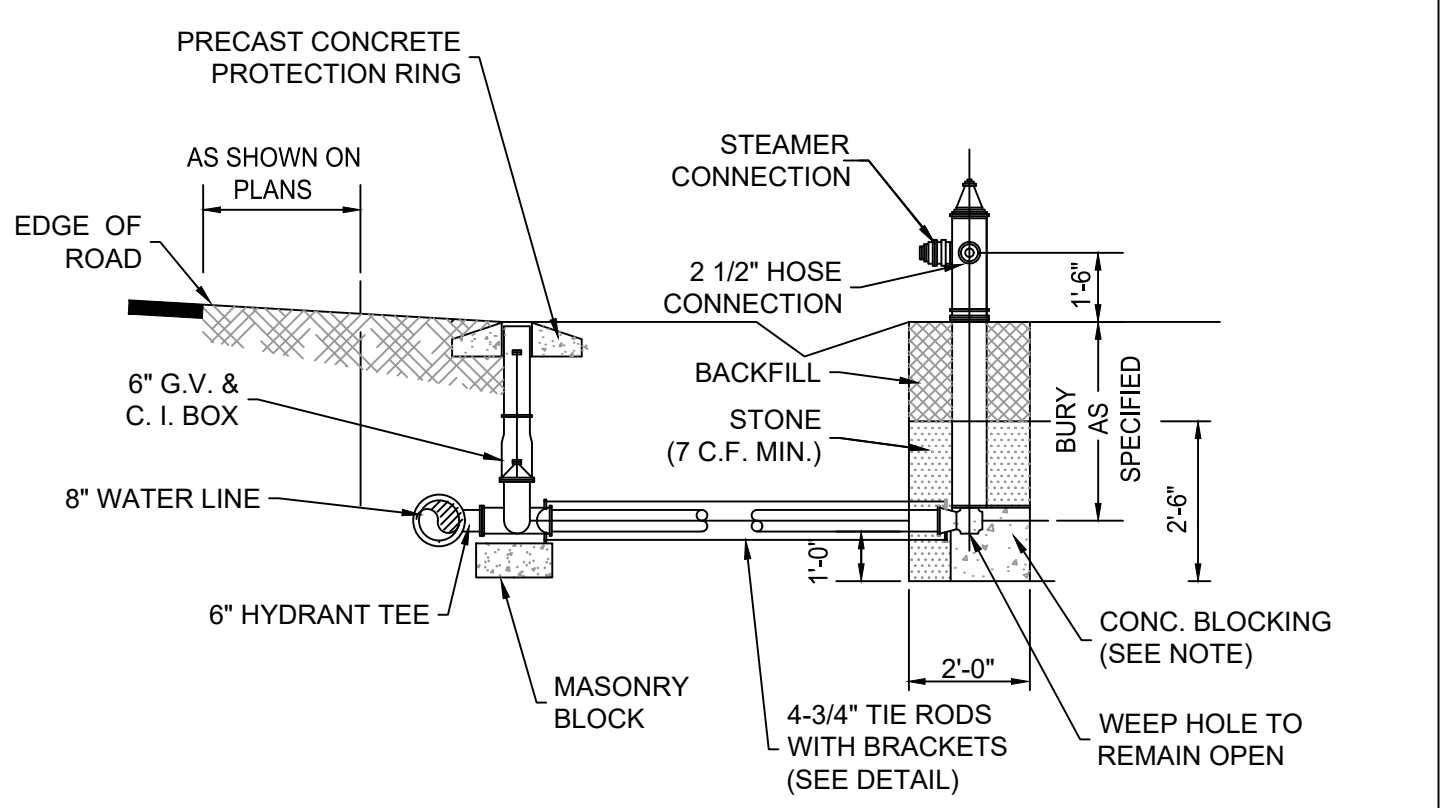


TYPICAL WATER SERVICE CONNECTION USING TAPPING SADDLE DETAIL W 13  
NOT TO SCALE

- NOTE:  
1. "SERVICE CONNECTION" IN PROPOSAL TO INCLUDE SERVICE SADDLE, 45° BEND, CORPORATION COCK AND ALL LABOR INVOLVED IN MAKING A COMPLETE SERVICE CONNECTION.  
2. SERVICE PIPING TO BE 3/4" SDR-9 PE TUBING  
3. ALL BRASS FITTINGS SHALL BE COMPRESSION TYPE

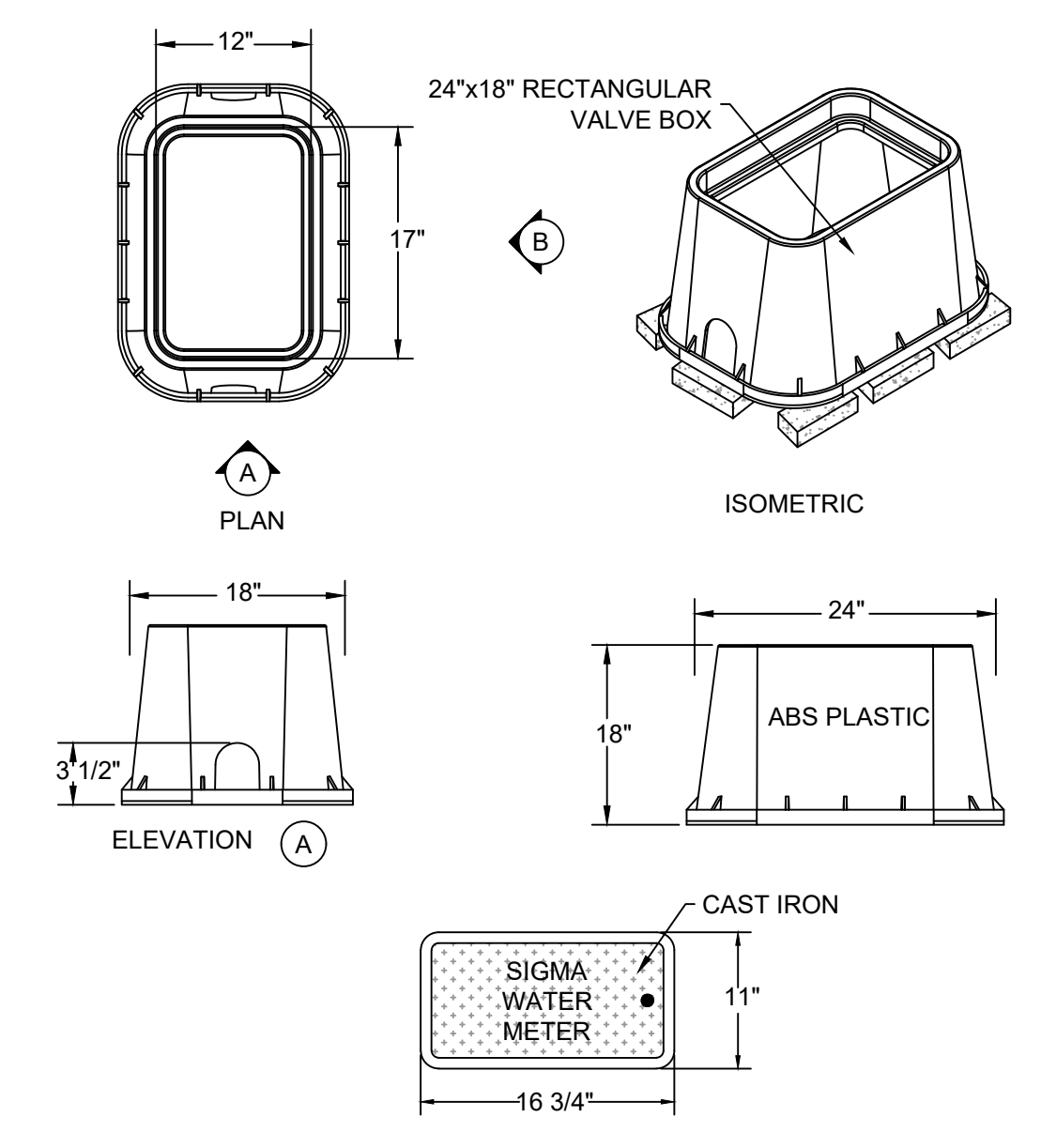


TYPICAL TRACER WIRE INSTALLATION DETAIL W 3  
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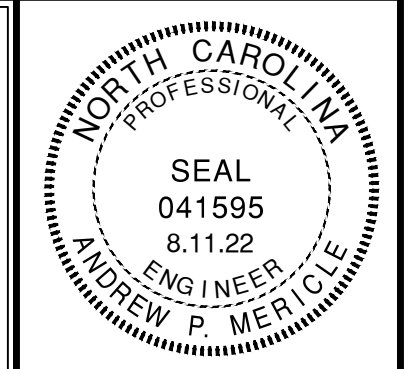


- NOTE:  
1. TIE HYDRANT TO MAIN LINE W/TIE RODS IN LIEU OF CONC. BLOCKING IN SANDY SOIL.  
2. MECHANICAL JOINTS USED WITH GRIP RINGS

TYPICAL HYDRANT INSTALLATION DETAIL W 6  
NOT TO SCALE



METER BOX DETAIL FOR 3/4" SERVICE W 15  
NOT TO SCALE



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• Blacksburg, VA  
• Charlottesville, VA



HRW DETAILS  
**LEXINGTON PLANTATION POOL**  
HARNETT COUNTY, NC

REVISIONS

DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SCALE:	NONE
DATE:	4.26.22
PROJECT NUMBER:	2101033-01

**C7.0**