

PLANS FOR:

PROVIDENCE CREEK AMENITY CENTER & POOL



P-0961



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 JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE CLIENT SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED TO THE ENGINEER. THE ENGINEER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED TO THE ENGINEER. THE ENGINEER SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS OF DRAWINGS.

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REVISION LOG

DATE	REVISED BY	REVISION
03/07/2023	NWS	REMOVED FIRE ALARM FROM APPENDIX B

NOTES

- ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT, INCLUDING ROOF GEOMETRY. JDS CONSULTING ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. ENGINEER TO BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.
- PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:
 - IF THESE PLANS ARE ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR 18 MONTHS FROM THE DATE ON THE SEAL, UNLESS ANY CODE-REQUIRED UPDATES ARE PLACED IN EFFECT BY THE MUNICIPALITY.
 - IF THESE PLANS ARE NOT ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR A CONDITIONAL, ONE-TIME USE FOR THE LOT OR ADDRESS SPECIFIED ON THE TITLE BLOCK.

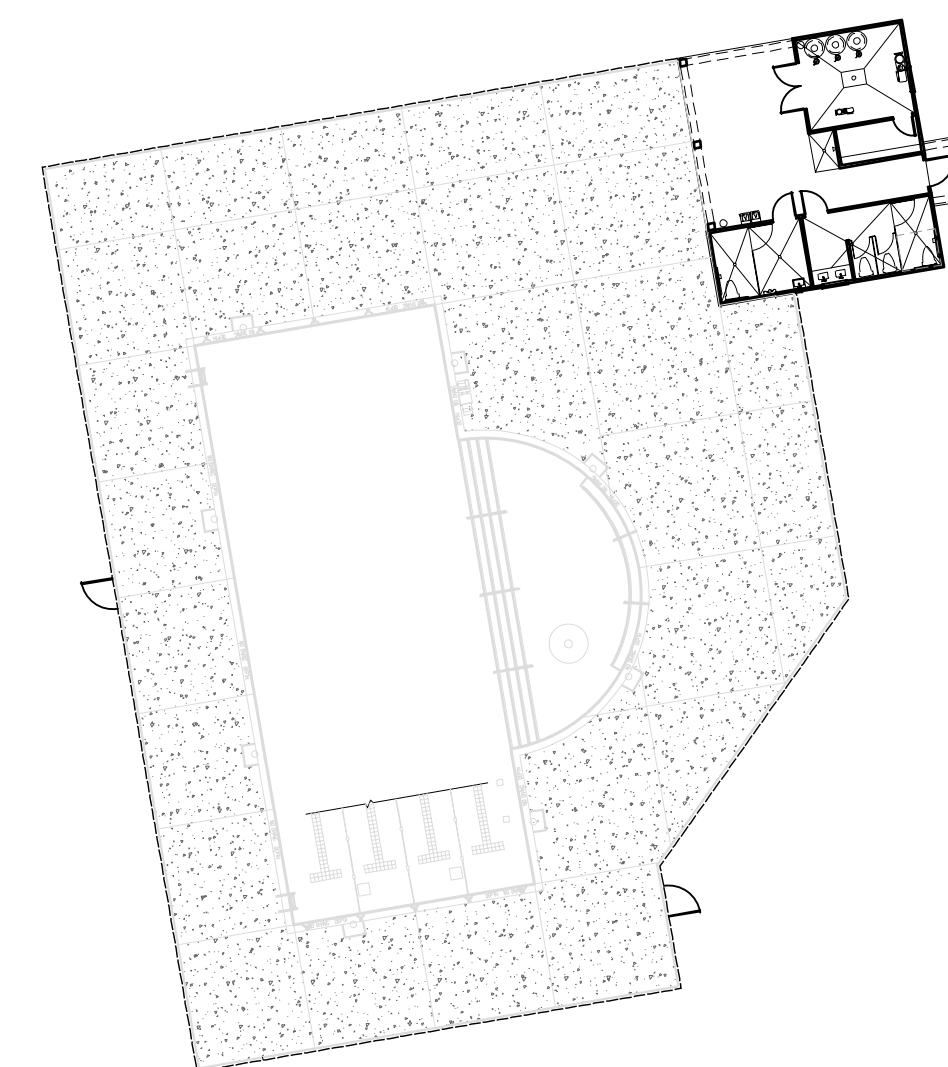
CODE

ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER:

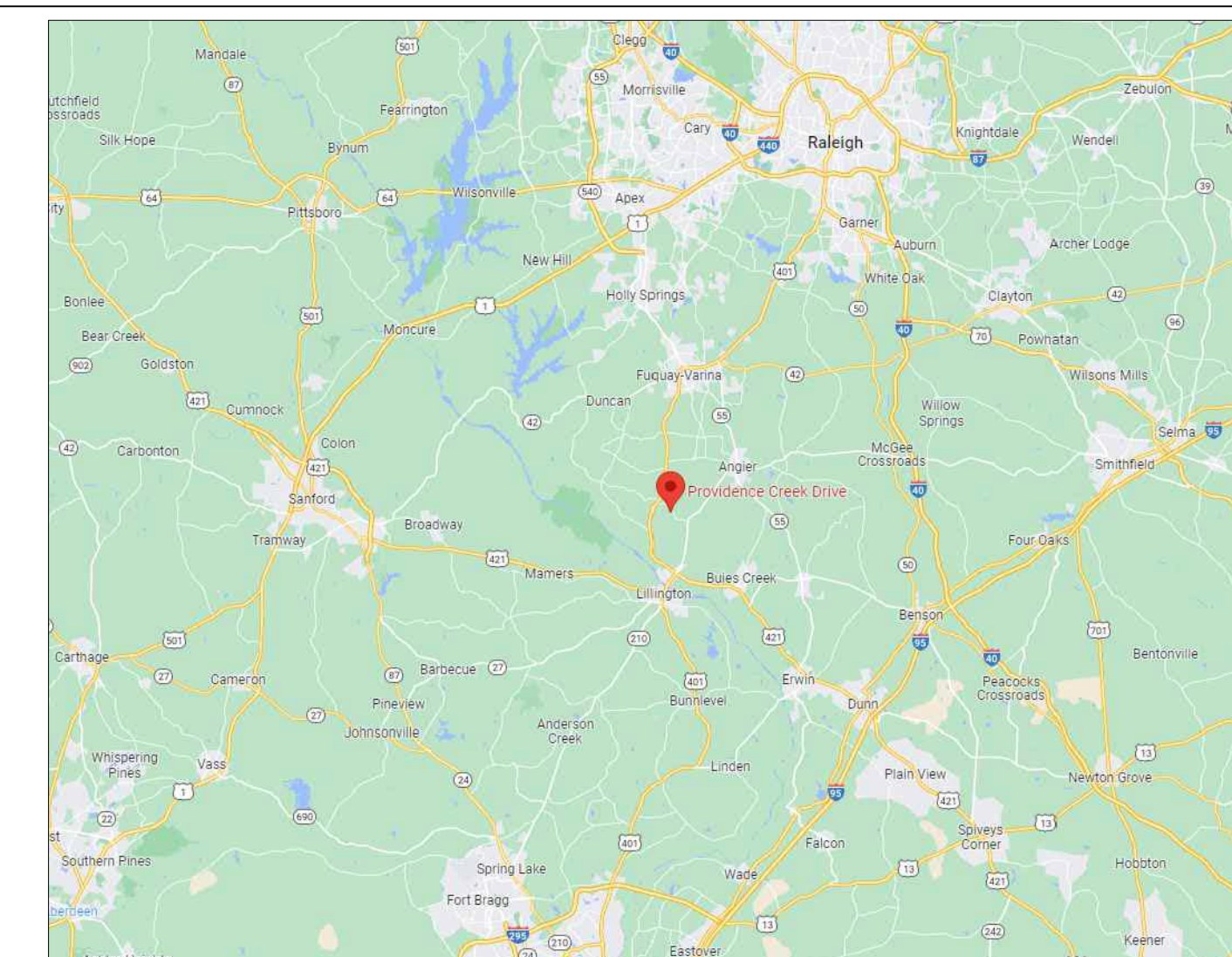
2018
 NORTH CAROLINA
 STATE BUILDING CODE:
 STATE BUILDING CODE

ENGINEER OF RECORD

JDS CONSULTING, PLLC
 ENGINEERING · DESIGN · ENERGY
 8600 'D' JERSEY COURT
 RALEIGH, NC 27617
 FIRM LIC. NO: P-0961
 PROJECT REFERENCE: 23900139



KEY PLAN
 SCALE: NTS



VICINITY MAP
 SCALE: NTS

CLIENT: **MATTAMY HOMES**

PROJECT: **PROVIDENCE CREEK AMENITY CENTER & POOL**

LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **23900139**

DATE: **03/07/2023** DRAWN BY: **FAB**

TITLE SHEET

T

ABBREVIATIONS

ABV	ABOVE	LVL	LAMINATED VENEER LUMBER
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ALT	ALTERNATE	MECH	MECHANICAL
BRG	BEARING	MFTR	MANUFACTURER
BSMT	BASEMENT	MIN	MINIMUM
CANT	CANTILEVER	NTS	NOT TO SCALE
CJ	CEILING JOIST	OA	OVERALL
CLG	CEILING	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	PT	PRESSURE TREATED
CO	CASED OPENING	R	RISER
COL	COLUMN	REF	REFRIGERATOR
CONC	CONCRETE	RFG	ROOFING
CONT	CONTINUOUS	RO	ROUGH OPENING
D	CLOTHES DRYER	RS	ROOF SUPPORT
DBL	DOUBLE	SC	STUD COLUMN
DIAM	DIAMETER	SF	SQUARE FOOT (FEET)
DJ	DOUBLE JOIST	SH	SHELF / SHELVES
DN	DOWN	SHGT	SHEATHING
DP	DEEP	SHW	SHOWER
DR	DOUBLE RAFTER	SIM	SIMILAR
DSP	DOUBLE STUD POCKET	SJ	SINGLE JOIST
EA	EACH	SJ	STUD POCKET
EE	EACH END	SPEC'D	SPECIFIED
EQ	EQUAL	SQ	SQUARE
EX	EXTERIOR	T	TREAD
FAU	FORCED-AIR UNIT	TEMP	TEMPERED GLASS
FDN	FOUNDATION	THK	THICK(NESS)
FF	FINISHED FLOOR	TJ	TRIPLE JOIST
FLR	FLOOR(ING)	TOC	TOP OF CURB / CONCRETE
FP	FIREPLACE	TR	TRIPLE RAFTER
FTG	FOOTING	TYP	TYPICAL
HB	HOSE BIBB	UNO	UNLESS NOTED OTHERWISE
HDR	HEADER	W	CLOTHES WASHER
HGR	HANGER	WH	WATER HEATER
JS	JACK STUD COLUMN	WWF	WELDED WIRE FABRIC
KS	KING STUD COLUMN	XJ	EXTRA JOIST

NOTE: ALL CHAPTERS, SECTIONS, TABLES, AND FIGURES CITED WITHOUT A PUBLICATION TITLE ARE FROM THE APPLICABLE BUILDING CODE (SEE TITLE SHEET).

GENERAL

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. FURTHERMORE, CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND SAFETY ON SITE. NOTIFY JDS CONSULTING IMMEDIATELY IF DISCREPANCIES ON PLAN EXIST.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
- NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
- OPENINGS 1'-4" OR LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SUCH OPENINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOADS APPLIED TO THE STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE APPLIED.
- FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS, UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE PROOFING METHODS AND MATERIALS.
- DO NOT SCALE THESE DRAWINGS; USE DIMENSIONS.

DESIGN CRITERIA

- BUILDING CODE: SEE TITLE SHEET
- ASSUMED SOIL BEARING-CAPACITY 2,000 PSF
- DESIGN LIVE LOADS
 - ROOF: 20 PSF
 - FLOOR (OFFICE) : 50 PSF
 - FLOOR (CORRIDOR) : 100 PSF
- SNOW LOADS
 - GROUND SNOW: 15 PSF
 - FLAT ROOF SNOW, Pf: 15 PSF
 - SNOW EXPOSURE FACTOR, Ce: 1.0
 - IMPORTANCE FACTOR, Is: 1.0
 - THERMAL FACTOR, Ct: 1.0
 - DRIFT SURCHARGE LOAD(S), Pd:
 - WIDTH OF SNOW DRIFT(S), w:
- WIND
 - ULTIMATE DESIGN WIND SPEED: 118 MPH
 - NOMINAL DESIGN WIND SPEED: 89 MPH
 - RISK CATEGORY: II
 - WIND EXPOSURE CATEGORY: B
 - INTERNAL PRESSURE COEFFICIENT: +/- 0.18
 - ROOF COMPONENTS AND CLADDING: + 10 PSF, - 31 PSF
 - WALL COMPONENTS AND CLADDING: + 18 PSF, - 20 PSF
- SEISMIC
 - RISK CATEGORY: II
 - IMPORTANCE FACTOR, Ie: 1.0
 - MAPPED SPECTRAL RESPONSE ACCELERATION, Ss: 0.116 g
 - MAPPED SPECTRAL RESPONSE ACCELERATION, S1: 0.058g
 - SITE CLASS: D
 - DESIGN SPECTRAL RESPONSE ACCELERATION, Sds: 0.23 g
 - DESIGN SPECTRAL RESPONSE ACCELERATION, Sd1: 0.14g
 - SEISMIC DESIGN CATEGORY: B
 - BASIC SEISMIC FORCE-RESISTING SYSTEM: STEEL MOMENT FRAME
 - DESIGN BASE SHEAR: V = 8 k
 - SEISMIC RESPONSE COEFFICIENT, Cs: 0.04
 - RESPONSE MODIFICATION COEFFICIENT, R: 6.5
 - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

FOUNDATION

- MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 POUNDS PER SQUARE FOOT (PSF). IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS EXIST.
- WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" OC AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS PER SECTION. SEE DRAWINGS FOR SPECIAL CONDITIONS.
- ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).

STRUCTURAL CONCRETE

- POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
- NORMAL-WEIGHT CONCRETE SHALL HAVE A MAXIMUM UNIT WEIGHT OF 145 POUNDS PER CUBIC FOOT (PCF), UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60, INCLUDING TIES AND STIRRUPS.
- MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
 - Unformed surfaces in contact with ground: 3"
 - Formed surfaces exposed to earth or weather: 2"
 - Formed surfaces not exposed to earth or weather: 1 1/2"
- REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE THE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
- PLUMBING, MECHANICAL, AND ELECTRICAL (PME) DRAWINGS SHALL BE REFERRED TO FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING THEIR RESPECTIVE ITEMS.
- MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM C1157.
- CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY SHALL BE AIR-ENTRAINED WHEN REQUIRED BY THE APPLICABLE CODE.
- WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

STRUCTURAL MASONRY

- COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS (CMU) SHALL BE 1,900 PSI ON NET AREA.
- MORTAR SHALL BE TYPE S AND COMPLY WITH ASTM INTERNATIONAL STANDARD C270.
- COMPRESSIVE STRENGTH OF MORTAR SHALL BE 1,800 PSI AT 28 DAYS.
- COMPRESSIVE STRENGTH OF MASONRY ASSEMBLAGE SHALL BE 1,500 PSI ON NET AREA.
- CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 530: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES* AND THE MASONRY SOCIETY PUBLICATION TMS 402/602: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES*.

STRUCTURAL STEEL

- STRUCTURAL STEEL WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A992. Fy = 50 KSI, UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL TUBE SHAPES SHALL CONFORM TO ASTM A500, GRADE B, Fy = 46 KSI, UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL PIPE SHAPES SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, Fy = 36 KSI, UNLESS NOTED OTHERWISE.
- ALL MISCELLANEOUS STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, Fy = 36 KSI, UNLESS NOTED OTHERWISE.
- ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO *AISC CODE OF STANDARD PRACTICE*, SECTION 10.
- BOLTS FOR BOLTED CONNECTIONS SHALL BE 3/4" DIAMETER, ASTM A325, TYPE N, SNUG TIGHT, UNLESS NOTED OTHERWISE.
- FABRICATOR SHALL DESIGN BEAM CONNECTIONS PER LOADS PROVIDED IN *AISC UNIFORM LOAD TABLES*, UNLESS NOTED OTHERWISE.
- ALL BEAMS AND GIRDERS SHALL HAVE THEIR ROLLING CAMBER PLACED UP.
- NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD. HOLES, SLOTS, CUTS, ETC. ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
- SPlicing OF STRUCTURAL STEEL MEMBERS, WHERE NOT DETAILED, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, UNLESS NOTED OTHERWISE.
- NO FINAL BOLTING OR WELDING SHALL BE DONE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.
- INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND. EQUIVALENT USP BRAND PRODUCTS ARE ACCEPTABLE.
- ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS, UNO.

STRUCTURAL WOOD

- ALL STRUCTURAL WOOD SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19%, UNLESS NOTED OTHERWISE.
- INTERIOR / TRIMMED FRAMING LUMBER SHALL BE #2 SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES (#2 SOUTHERN YELLOW PINE MAY BE SUBSTITUTED):

Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI
- FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN PROPERTIES:

Fb = 975 PSI Fv = 95 PSI E = 1.0E6 PSI
- LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:


Fb = 2600 PSI Fv = 285 PSI E = 1.9E6 PSI
- PSL STRUCTURAL MEMBERS TO BE PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2900 PSI Fv = 290 PSI E = 2.0E6 PSI
- LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2250 PSI Fv = 400 PSI E = 1.55E6 PSI
- REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.
- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.
- ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.
- NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.
- SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
- FACE OF WALL FRAMING TO BE FLUSH WITH FACE OF FOUNDATION WALLS, UNLESS NOTED OTHERWISE.
- ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.
- ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS:
 - SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION BEFORE CONSTRUCTION.
 - TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.
 - INSTALLATION OF THE SYSTEMS SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
 - TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE DRAWINGS.
- ALL BEAMS TO BE CONTINUOUSLY SUPPORTED Laterally AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS, UNO.
- WHEN A 4-PLY LVL BEAM IS USED, ATTACH WITH (1) 1/2" DIAMETER BOLT, 12" OC, STAGGERED TOP AND BOTTOM, 1 1/2" MIN FROM ENDS. ALTERNATE EQUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS SDS, SDW, OR TRUSSLOK SCREWS (SEE MANUFACTURER SPECIFICATIONS).
- FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).
- FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.
- PER SECTION 1604 OF THE APPLICABLE CODE (SEE TITLE SHEET), ANCHORAGE OF THE ROOF TO WALLS AND COLUMNS, AND OF WALLS AND COLUMNS TO FOUNDATIONS TO RESIST UPLIFT AND SLIDING FORCES, SHALL BE PROVIDED. REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM SHALL BE MET.

ROOF SYSTEMS

TRUSSED ROOF - STRUCTURAL NOTES

- FABRICATION AND ERECTION OF WOOD TRUSSES SHALL BE PER THE LATEST EDITION OF THE AMERICAN FOREST AND PAPER ASSOCIATION PUBLICATION *NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION*, AND ANSI/TPI 1.
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
-  DENOTES OVER-FRAMED AREA
- MINIMUM 7/16" OSB ROOF SHEATHING
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- TRUSS MANUFACTURER SHALL FURNISH SHOP DRAWINGS AND DESIGN CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL INDICATE TRUSS END REACTIONS FOR CONNECTION VERIFICATION BY ENGINEER-OF-RECORD.
- MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOE PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.
- WOOD MEMBERS SHALL NOT BE CUT FOR PLUMBING OR WIRING UNLESS DETAILED ON THE APPROVED SHOP DRAWINGS.

FASTENER SCHEDULE

CONNECTION	3" x 0.131" NAIL	3" x 0.120" NAIL
JOIST TO SILL PLATE	(4) TOE NAILS	(4) TOE NAILS
SOLE PLATE TO JOIST / BLOCKING	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)
STUD TO SOLE PLATE	(4) TOE NAILS	(4) TOE NAILS
TOP OR SOLE PLATE TO STUD	(3) FACE NAILS	(4) FACE NAILS
RIM JOIST OR BAND JOIST TO TOP PLATE OR SILL PLATE	TOE NAILS @ 6" OC	TOE NAILS @ 4" OC
BLOCKING BETWEEN JOISTS TO TOP PLATE OR SILL PLATE	(4) TOE NAILS	(4) TOE NAILS
DOUBLE STUD	NAILS @ 8" OC	NAILS @ 8" OC
DOUBLE TOP PLATES	NAILS @ 12" OC	NAILS @ 12" OC
DOUBLE TOP PLATES LAP (24" MIN LAP LENGTH)	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT
TOP PLATE LAP AT CORNERS AND INTERSECTING WALLS	(3) FACE NAILS	(3) FACE NAILS
OPEN-WEB TRUSS BOTTOM CHORD TO TOP PLATES OR SILL PLATE (PARALLEL TO WALL)	NAILS @ 6" OC	NAILS @ 4" OC
BOTTOM CHORD OF TRUSS TO TOP PLATES OR SILL PLATE (PERPENDICULAR TO WALL)	(3) TOE NAILS	(3) TOE NAILS

DETAILS AND NOTES ON DRAWINGS GOVERN.



P-0961



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CLIENT: **MATTAMY HOMES**
 PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
 LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**
 SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **23900139**

DATE: **03/07/2023** DRAWN BY: **FAB**

GENERAL NOTES

GN1.0

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy 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.

ENERGY SUMMARY

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): _____

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) **FIBERGLASS SHINGLES OVER WOOD SHEATHING**
Description of assembly: W/ R42 INSULATION AND 1/2" GWB.
U-Value of total assembly: 0.22
R-Value of insulation: R42
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly) **LAP SIDING, RIGID INSULATION, WOOD STUDS,**
Description of assembly: BATT INSULATION, 1/2" GWB.
U-Value of total assembly: 0.045
R-Value of insulation: R13+R7.5
Openings (windows or doors with glazing)
U-Value of assembly: ENTRANCE DOOR, 0.77
Solar heat gain coefficient: WINDOWS, 0.32
projection factor: 0.25
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: 4" THICK CONCRETE SLAB OVER 6MIL VAPOR BARRIER OVER 4" CRUSHED STONE BASE OVER COMPACTED EARTH FILL (ON GRADE)
U-Value of total assembly: 0.730
R-Value of insulation: R15
Horizontal/vertical requirement: 24" MIN. CONT. @ PERIMETER
slab heated: N/A

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

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0
Seismic (I_e) 1.0

Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor 100 psf

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed 116 mph (ASCE-7)
Exposure Category B

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_s 0.125 %g S₁ 0.065 %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

Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
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 2000 psf
Pile size, type, and capacity _____

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

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
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: _____
size category of unit: _____

Boiler
Size category. If oversized, state reason.: _____

Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

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

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

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

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

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)

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

SEE SHT.E1



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CLIENT: **MATTAMY HOMES**

PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**

LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

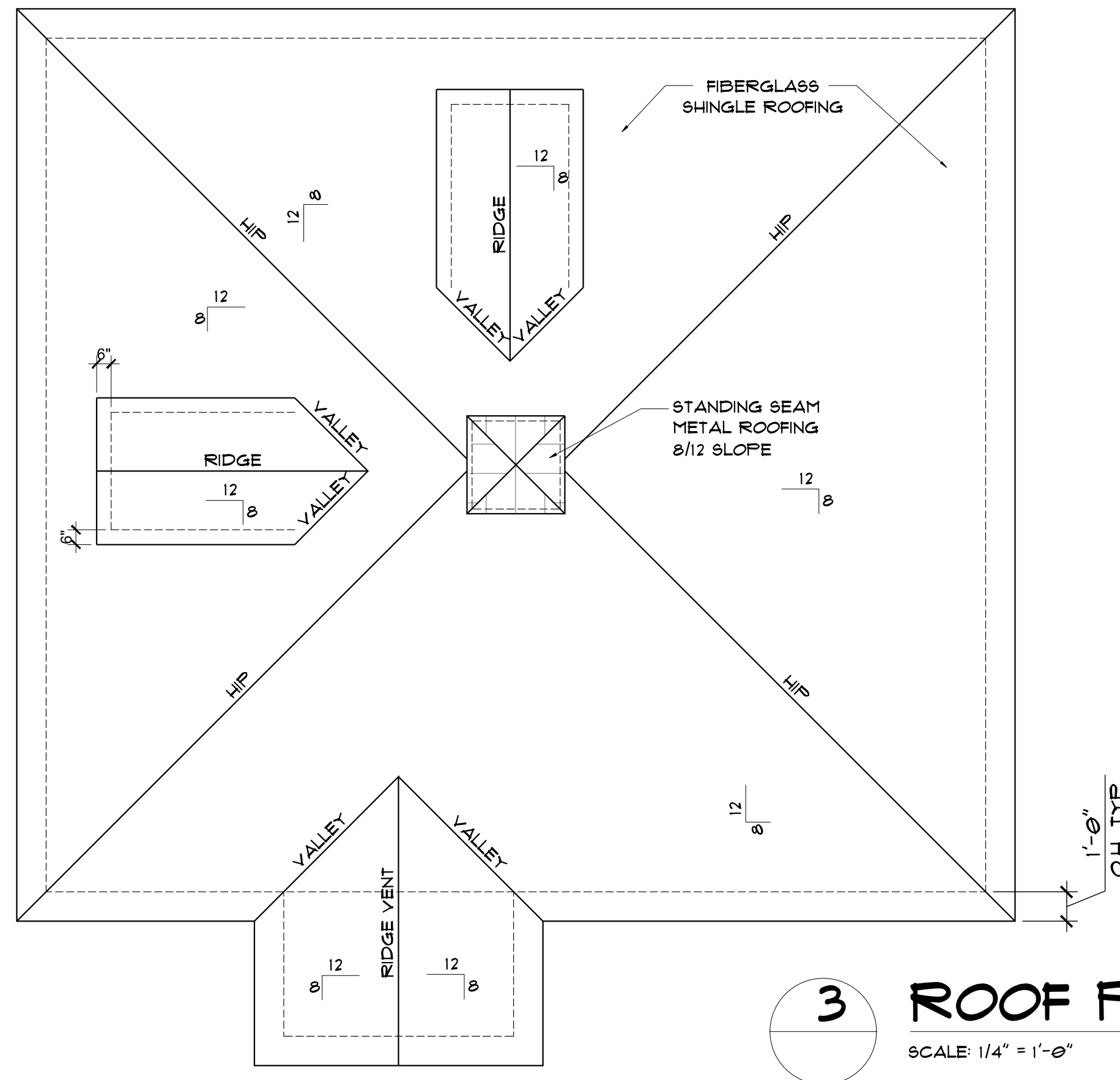
SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **23900139**

DATE: **03/07/2023** DRAWN BY: **FAB**

CODE SUMMARY

APP.B2



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

FINISH SCHEDULE

ROOM	WALLS	FLOOR	BASE	CEILING	CEILING HT.
MENS	CERAMIC TILE TO 48" A.F.F. FTD. GWB ABOVE	CERAMIC TILE	CER. TILE COVE	PAINTED GYP BD	8'-0"
WOMENS	CERAMIC TILE TO 48" A.F.F. FTD. GWB ABOVE	CERAMIC TILE	CER. TILE COVE	PAINTED GYP BD	8'-0"
PUMP ROOM	PAINTED M.R. GWB	SEALED CONCRETE	4: VINYL COVE	PAINTED M.R. BD	8'-0"
CHEM STORAGE	PAINTED M.R. GWB	SEALED CONCRETE	4: VINYL COVE	PAINTED M.R. BD	8'-0"
SHOWER	VINYL SIDING	SEALED CONCRETE	VINYL TRIM	VINYL SLAT	8'-0"

DOOR AND WINDOW SCHEDULE

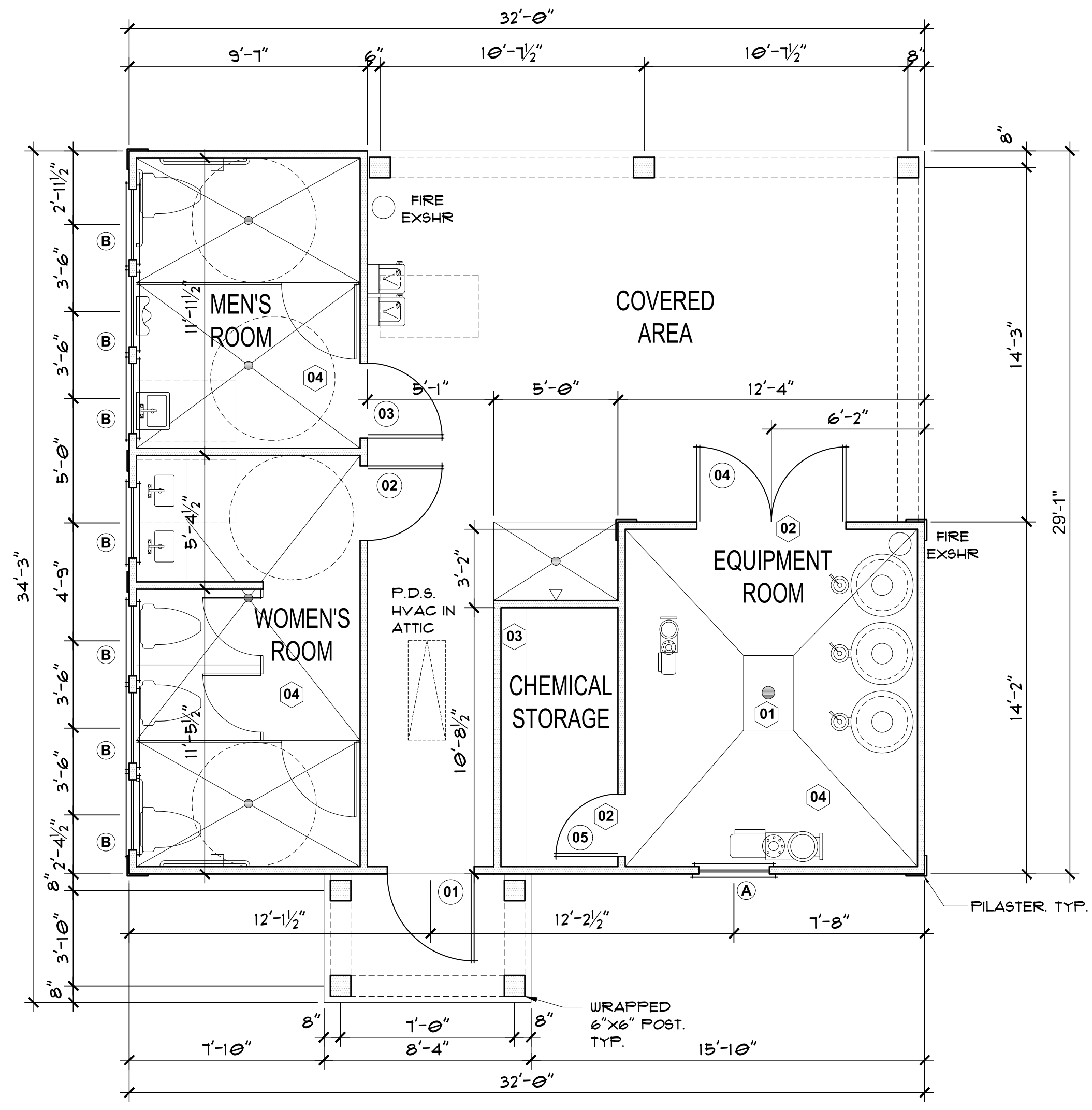
DOOR #	SIZE	TYPE	FRAME TYPE	HARDWARE	COMMENTS
01	3'-6" x 1'-0"	6 PANEL WOOD	HM	02	-
02	2'-6" x 1'-0"	6 PANEL WOOD	HM	01	BOTTOM PANEL TO BE LOUVERED
03	3'-0" x 1'-0"	6 PANEL WOOD	HM	01	BOTTOM PANEL TO BE LOUVERED
04	PAIR 3'-0" x 1'-0"	6 PANEL WOOD	HM	03	FULL LOUVERED DOOR
05	3'-0" x 1'-0"	6 PANEL WOOD	HM	04	BOTTOM PANEL TO BE LOUVERED
WINDOW A	34" x 54"	DOUBLE HUNG	WOOD		ADD OBSCURE GLAZING FILM
WINDOW B	34" x 16"	TRANSOM	WOOD		ADD OBSCURE GLAZING FILM

HARDWARE SETS

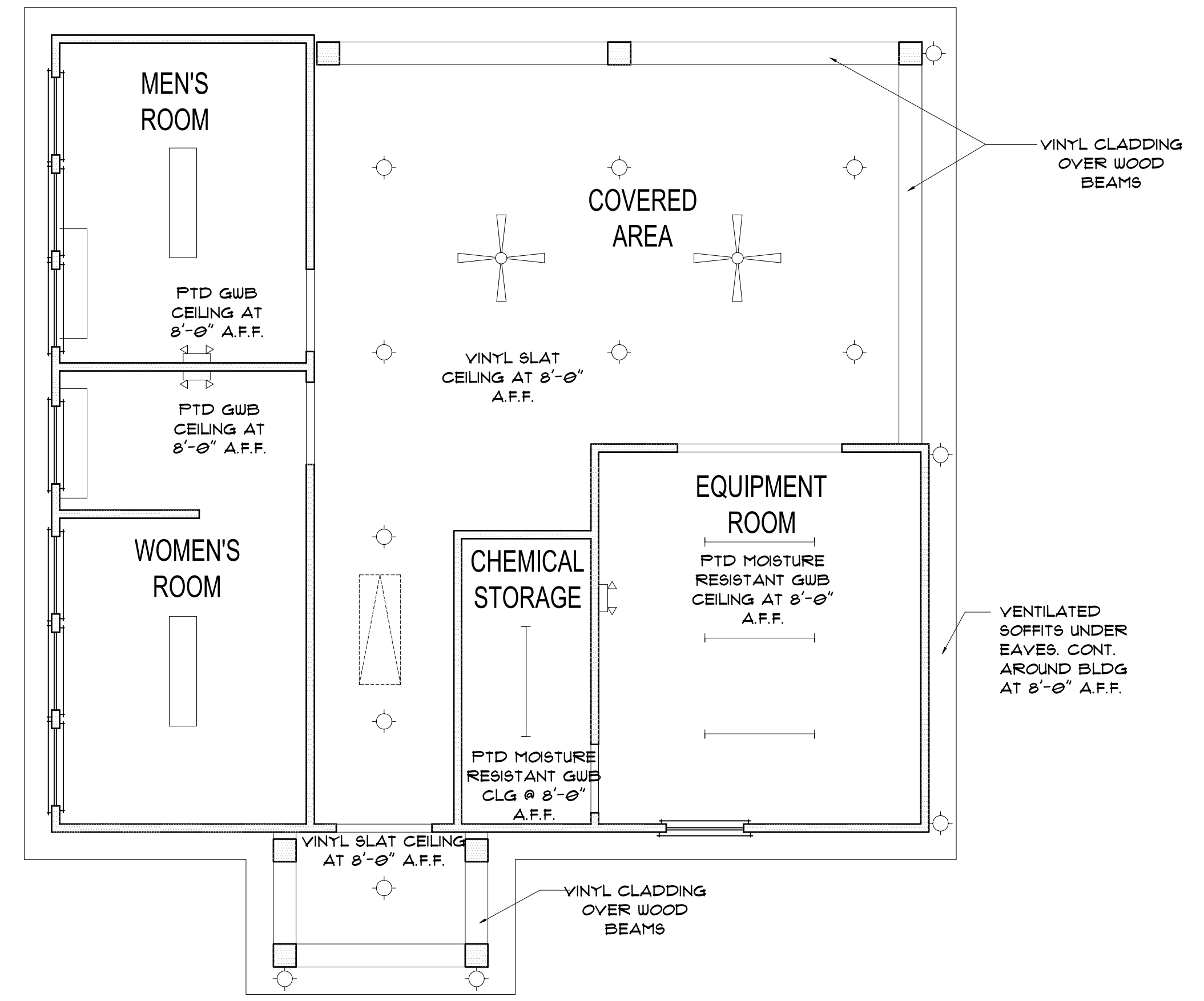
- 01 1 1/2 PR 4 1/2 x 4 1/2 96 BB BUTTS, PUSH PLATE, HC FULL, DEAD BOLT WITH HC LATCH ON INSIDE, CLOSER, THRESHOLD, MUTES AND WEATHERSTRIPPING, FLOOR STOP
- 02 1 1/2 PR 4 1/2 x 4 1/2 96 BB BUTTS, ENTRY DOOR LOCKSET WITH COMBINATION OR CARD READER, PANIC HARDWARE, THRESHOLD, MUTES AND WEATHERSTRIPPING
- 03 NOT USED
- 04 1 1/2 PR 4 1/2 x 4 1/2 96 BB BUTTS, PASSAGE DOOR LOCKSET, CLOSER, MUTES, WALL STOP
- 05 3 PR 4 1/2 x 4 1/2 96 BB BUTTS, PANIC BAR ON ACTIVE LEAF ON PUSH SIDE, ENTRY LOCKSET, TOP AND BOTTOM FLUSH BOLTS WITH SCREWS TO FIX INACTIVE LEAF IN CLOSED POSITION, CLOSERS, THRESHOLD, MUTES AND WEATHERSTRIPPING, FLOOR STOP

GENERAL NOTES

- 01 24" DEEP CONCRETE BUMP WITH 4" THICK WALLS AND FLOOR. COVER WITH 2" THICK FIBERGLASS GRATE. GRATE OPENINGS IN ON DIRECTION ARE NOT TO BE LESS THAN 1/2". SUPPORT GRATE WITH GALV. 2x2x1/4 ANCHORED TO WALLS WITH 1/2" DIA. X 2" LONG CONCRETE ANCHORS.
- 02 DOORS TO THE CHEMICAL STORAGE ROOM AND EQUIPMENT ROOM SHALL HAVE FLAGCARDS PER NFPA 704 ACCORDING TO THE HAZARDS PRESENT.
- 03 NON-CORROSIVE SHELF, SUPPORTED 16" ABOVE FLOOR ON 8" CMU'S
- 04 IN AREAS WITH FLOOR DRAINS, SLOPE FLOOR TO DRAIN



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



2 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



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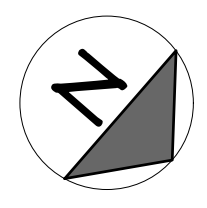
CLIENT: **MATTAMY HOMES**
PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

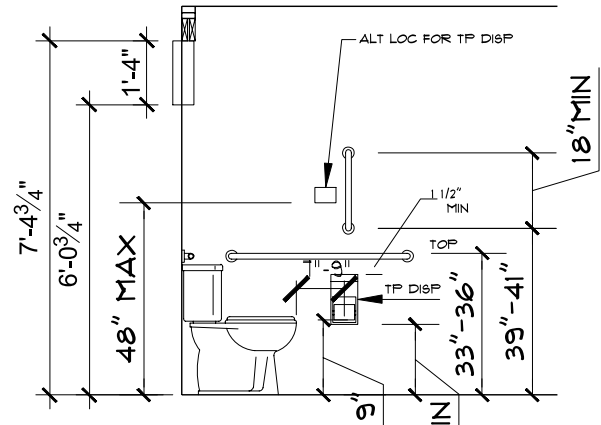
PROJECT NO.: **23900139**

DATE: **03/07/2023** DRAWN BY: **FAB**

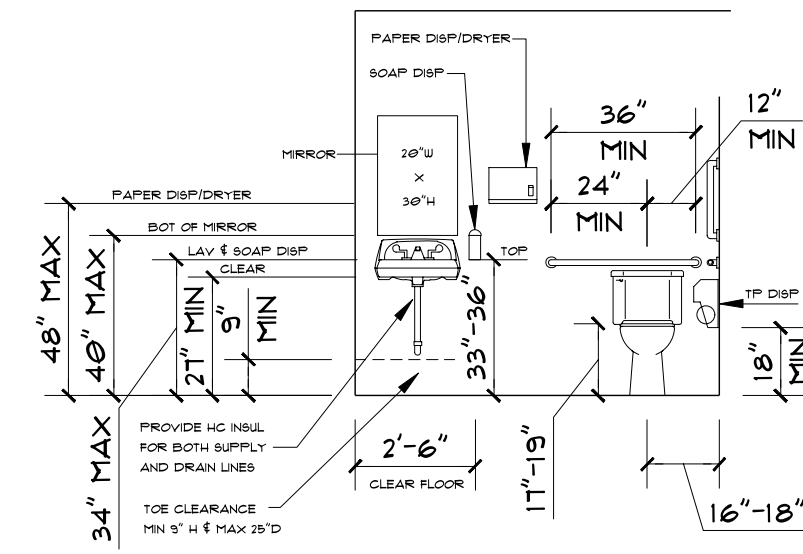
FLOOR PLAN, ROOF PLAN, RCP, SCHEDULES

B1.0

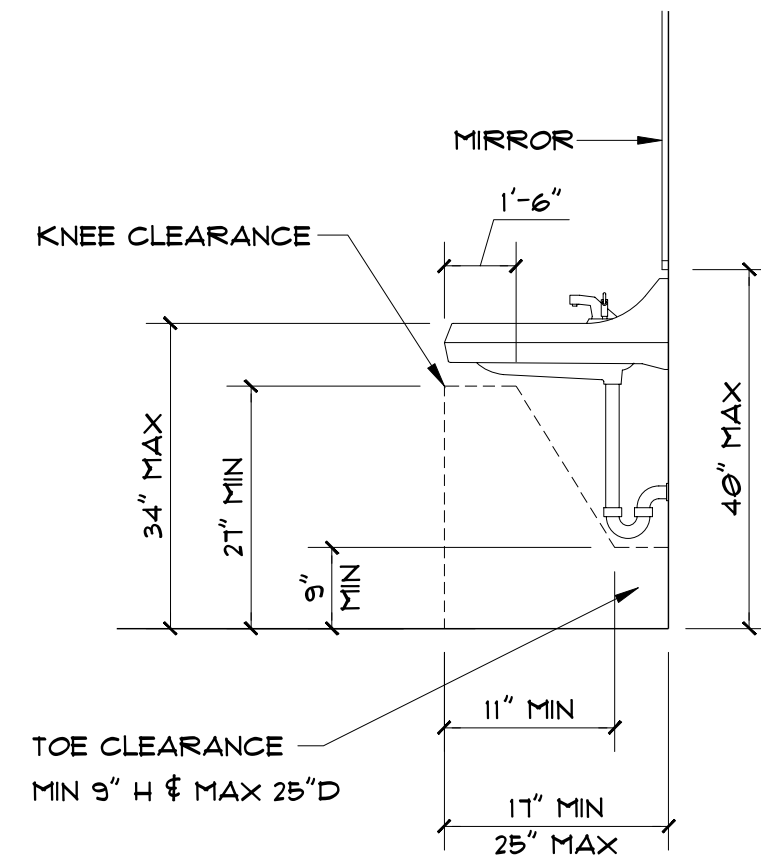




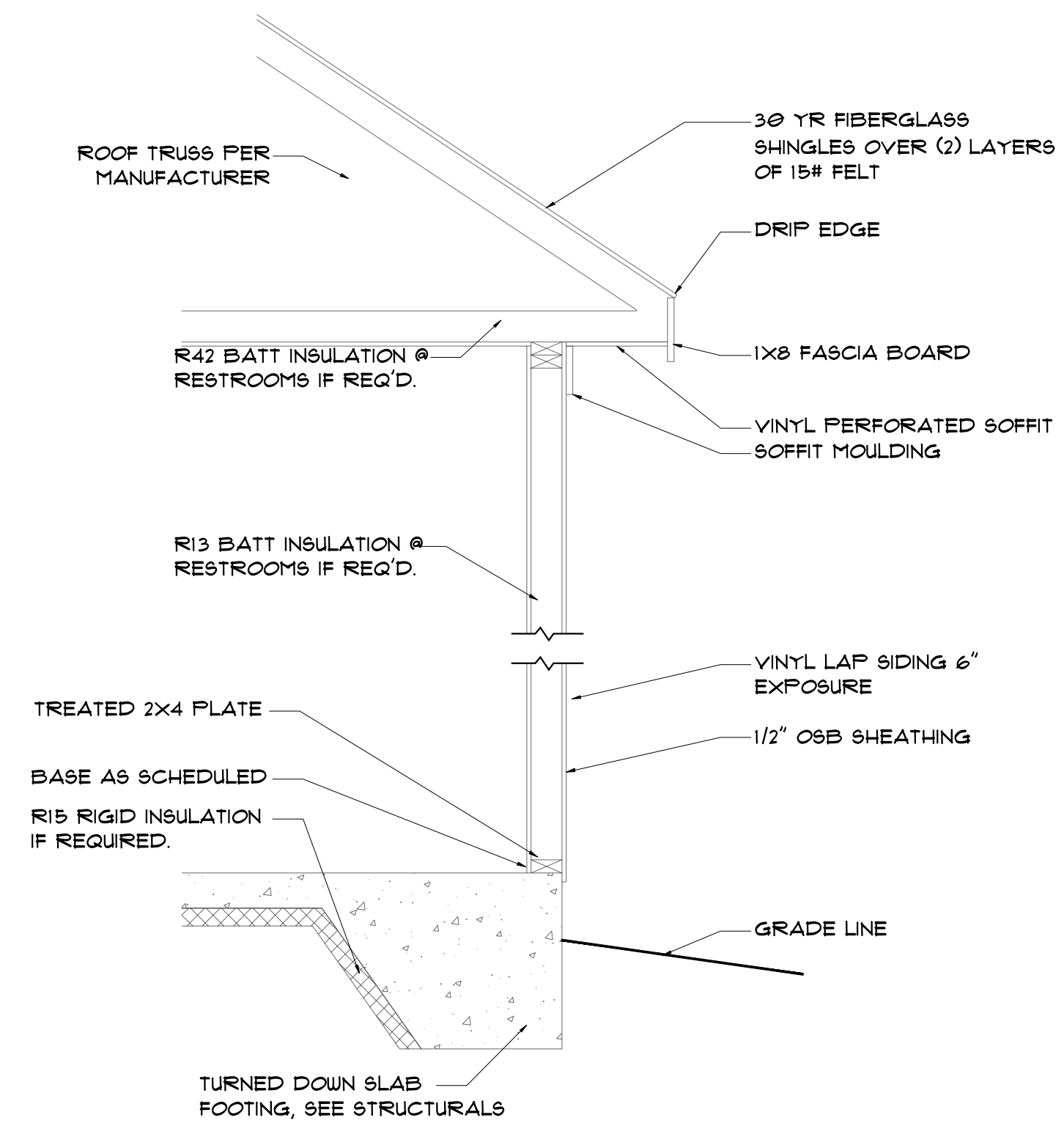
ELEVATION - 5



ELEVATION - 6



ELEVATION - 7



5 TYP. WALL SECTION
SCALE: 3/4" = 1'-0"

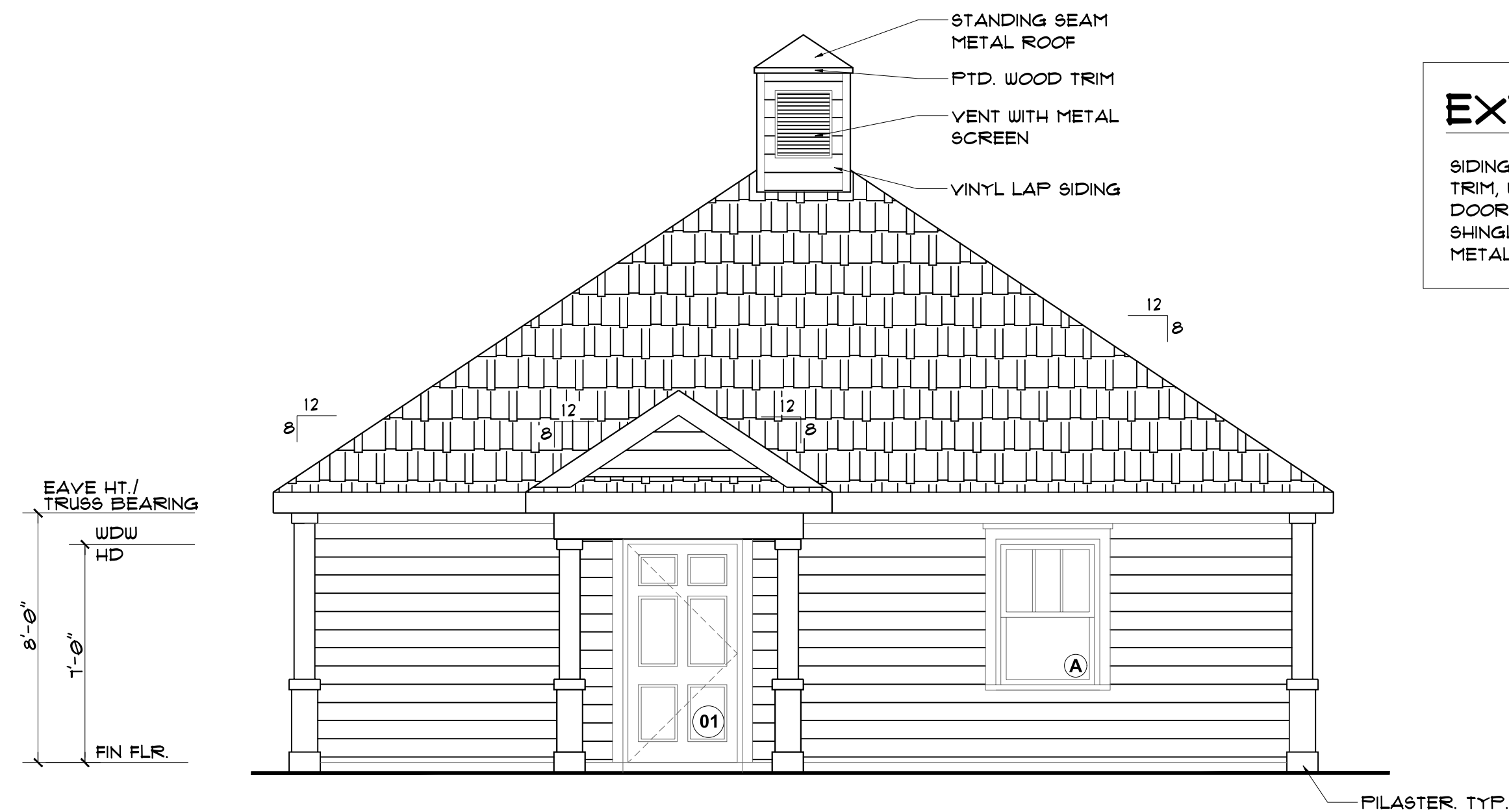
NOTE: FINISH DIMENSIONS

HC RESTROOM ELEVATIONS

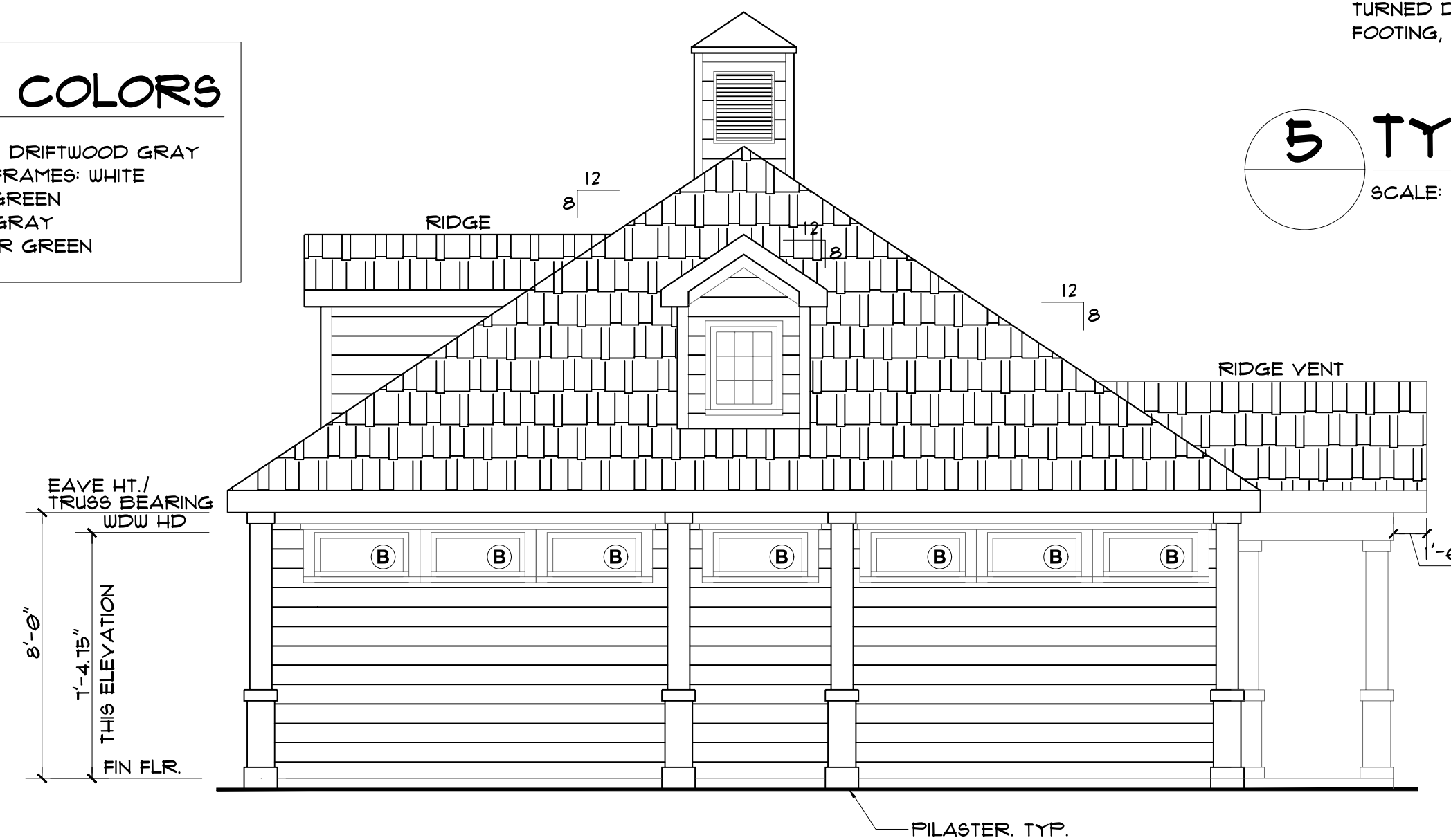
SCALE: N.T.S.

EXTERIOR COLORS

SIDING, COLUMN BASES: DRIFTWOOD GRAY
TRIM, WINDOWS, DOOR FRAMES: WHITE
DOOR LEAFS: HUNTER GREEN
SHINGLES: CHARCOAL GRAY
METAL ROOFING: HUNTER GREEN



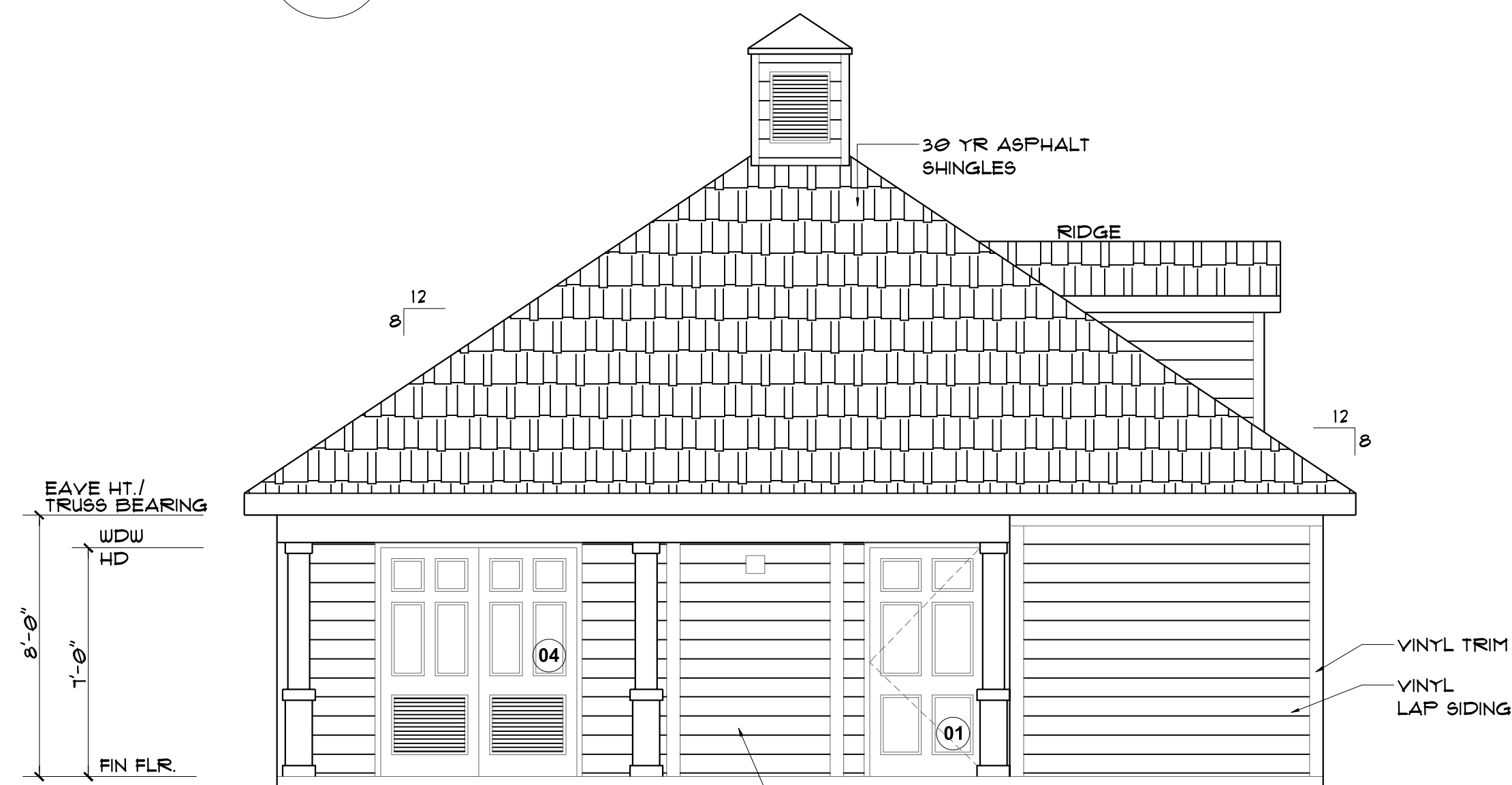
1 WEST ELEVATION
SCALE: 1/4" = 1'-0"



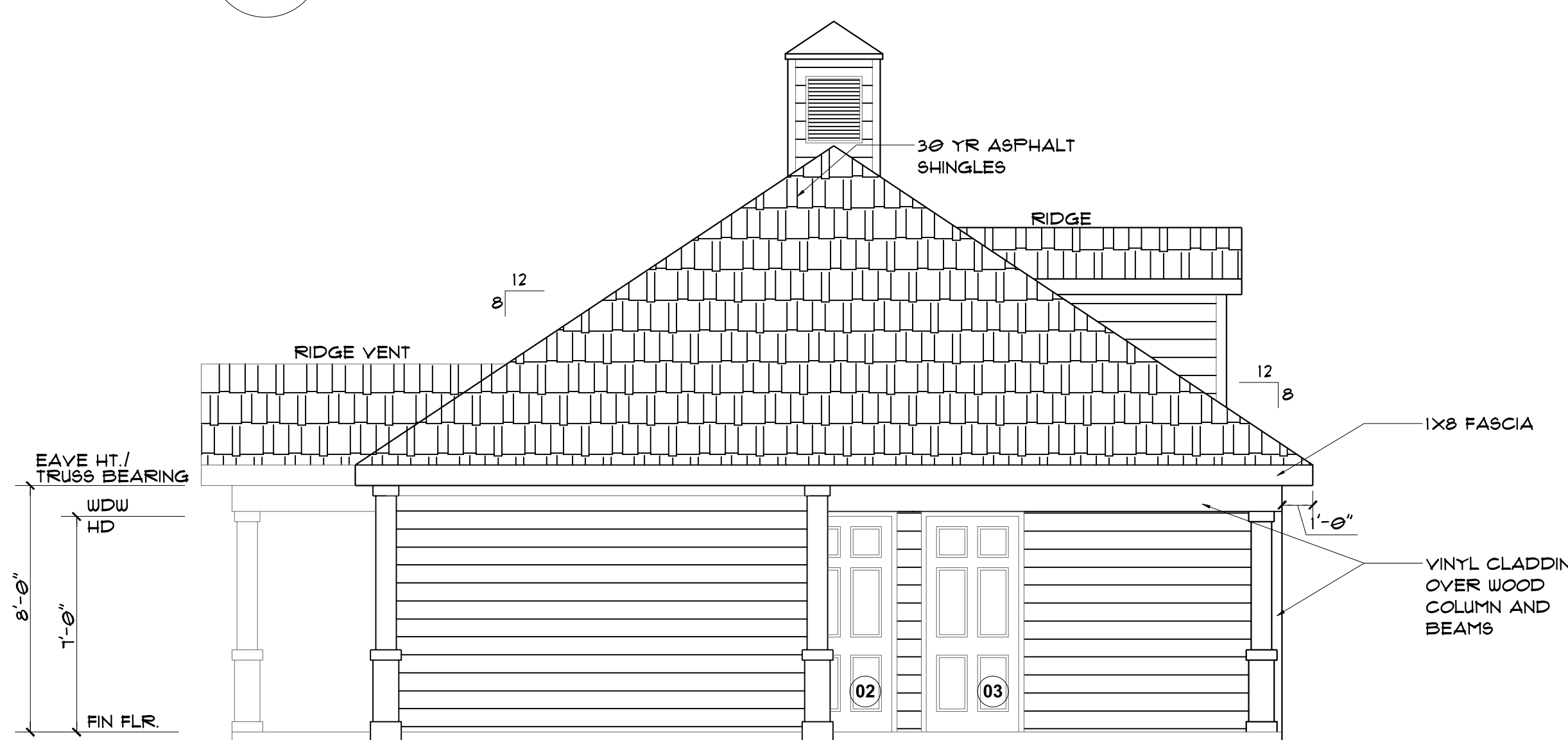
3 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

232 SF AREA EAST ELEVATION

5.0 SF AREA - WINDOW 1
5.0 SF AREA - WINDOW 2
5.0 SF AREA - WINDOW 3
5.0 SF AREA - WINDOW 4
5.0 SF AREA - WINDOW 5
5.0 SF AREA - WINDOW 6
5.4 SF AREA - COLUMN
5.4 SF AREA - COLUMN
6.6 SF AREA - DORMER GLAZING
5.4 SF AREA - FILASTER 1
5.4 SF AREA - FILASTER 2
5.4 SF AREA - FILASTER 3
5.4 SF AREA - FILASTER 4
14 SF AREA - TOTAL 31.8%



2 EAST ELEVATION
SCALE: 1/4" = 1'-0"



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



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CLIENT: **MATTAMY HOMES**
PROJECT: **PROVINCIE CREEK AMENITY CENTER & POOL**
LOCATION: **196 PROVINCIE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

PROJECT NO.: **23900139**

DATE: **03/07/2023** DRAWN BY: **FAB**

ELEVATIONS, RESTROOMS, WALL SECTION

B2.0

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED



P-0961

POOL DECK OCCUPANCY REQUIREMENTS

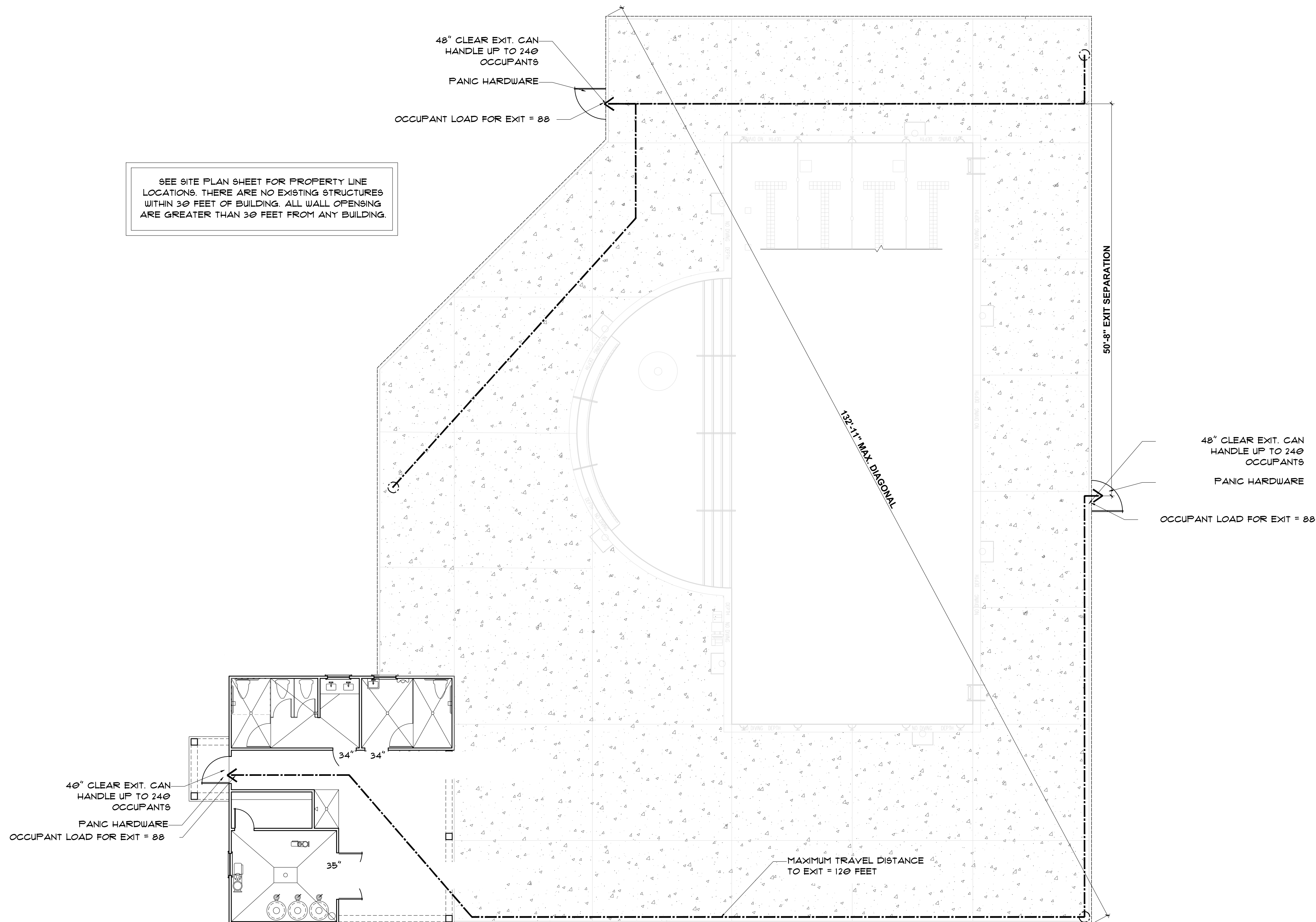
TOTAL POOL DECK AREA IS 4,734 SF. 8' MINIMUM UN-OCCUPIABLE AREA AROUND THE POOL IS 2,116 SF. GROSS POOL DECK FOR OCCUPANCY EXIT REQUIREMENTS IS 4,734 - 2,116 = 2,618 SF. DECK IS 2,618 SF AT 15 SF PER PERSON, DECK OCCUPANT LOAD IS 175.

COVERED AREA IS 421 SF. AT 15 SF PER PERSON, COVERED AREA OCCUPANT LOAD IS 28.

POOL AREA IS 2,969 SF. AT 50 SF PER PERSON, POOL OCCUPANT LOAD IS 60.

TOTAL OCCUPANT LOAD OF 263.2 EQUAL 33' OF EXIT REQUIRED. 3 EXITS REQ'D. MIN. OF 132" SHOWN ON PLAN.

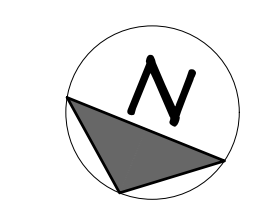
REQ'D EXIT SEPARATION EQUALS 1/2 THE 132" DIAGONAL, OR 66'. 66'-3" SHOWN ON PLANS.



SEE SITE PLAN SHEET FOR PROPERTY LINE LOCATIONS. THERE ARE NO EXISTING STRUCTURES WITHIN 30 FEET OF BUILDING. ALL WALL OPENINGS ARE GREATER THAN 30 FEET FROM ANY BUILDING.

1 LIFE SAFETY PLAN

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



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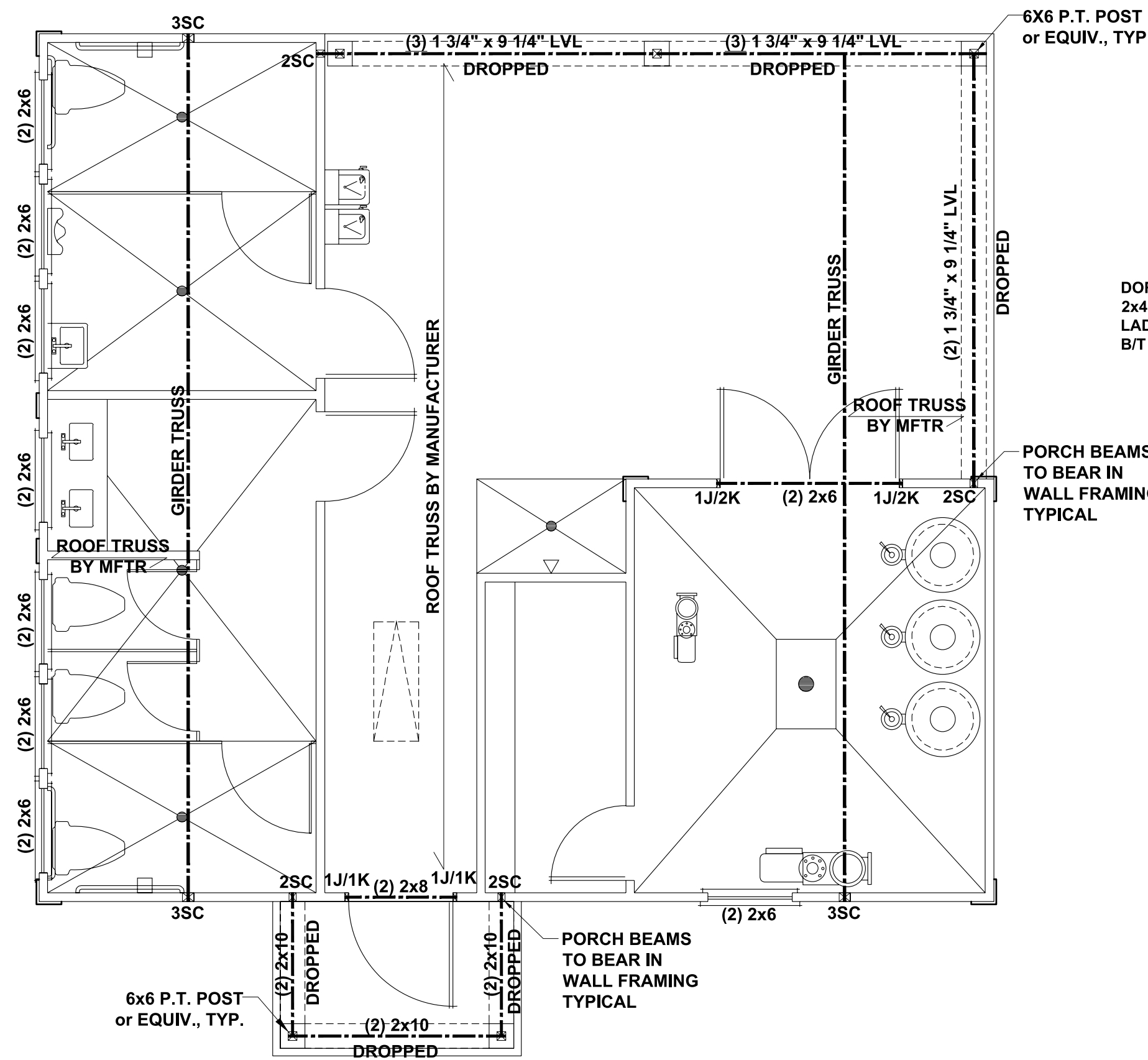
CLIENT:	MATTAMY HOMES
PROJECT:	PROVINCE CREEK AMENITY CENTER & POOL
LOCATION:	196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526
SCALE:	1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: 23900139

DATE: 03/07/2023 DRAWN BY: FAB

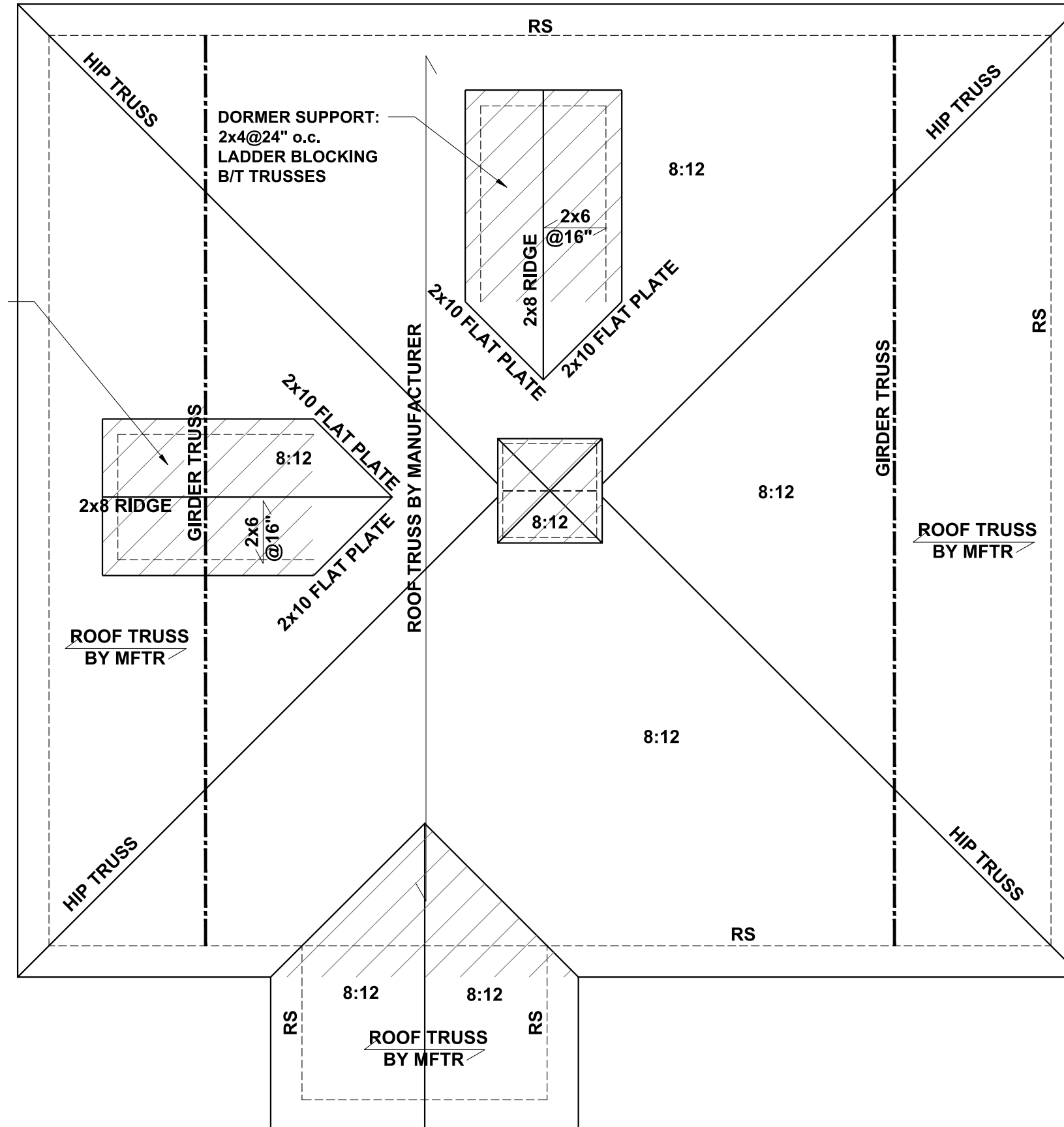
UL DETAILS

B2.1



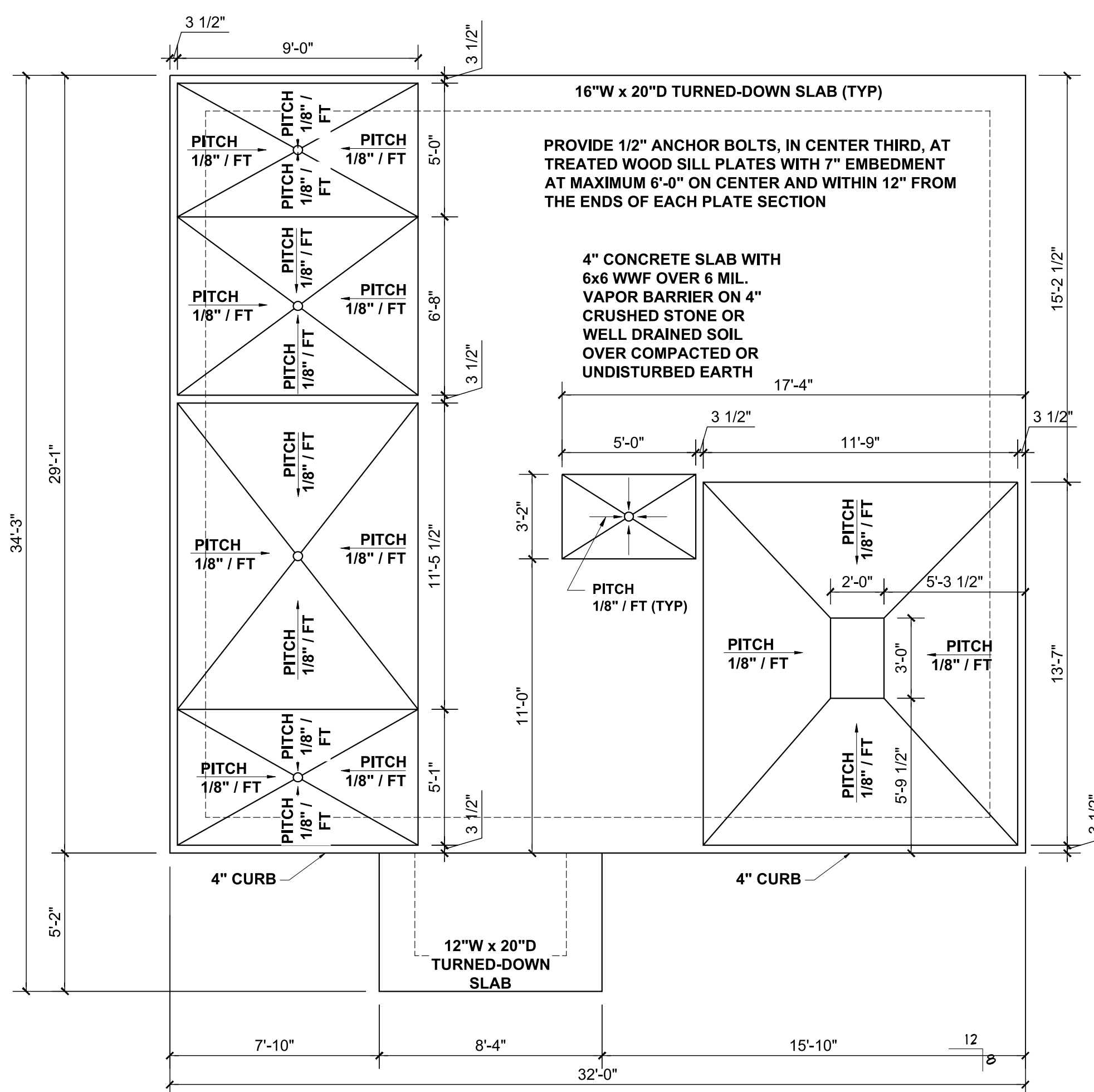
CEILING FRAMING PLAN

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



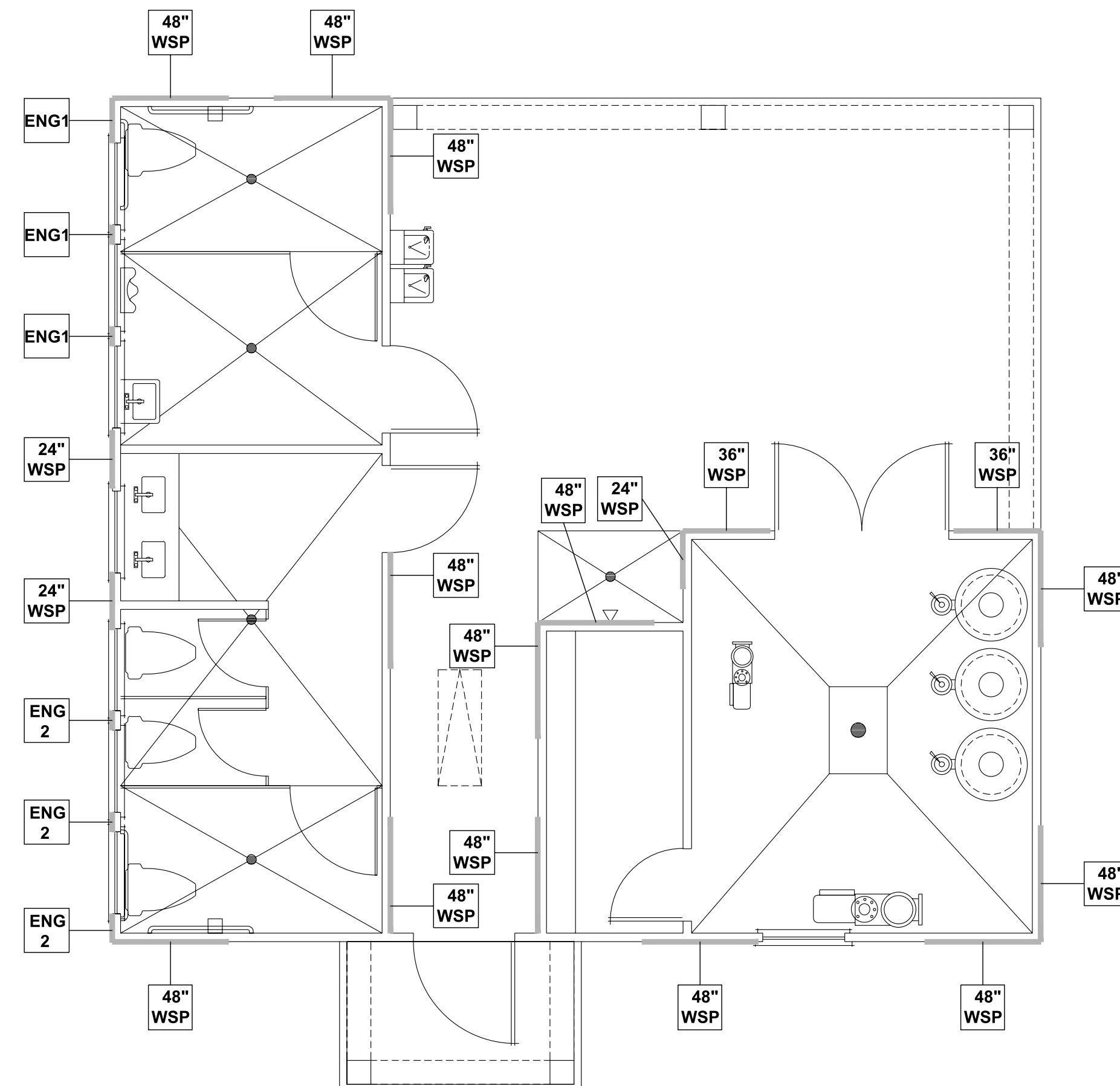
ROOF FRAMING PLAN

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



SLAB FOUNDATION PLAN

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

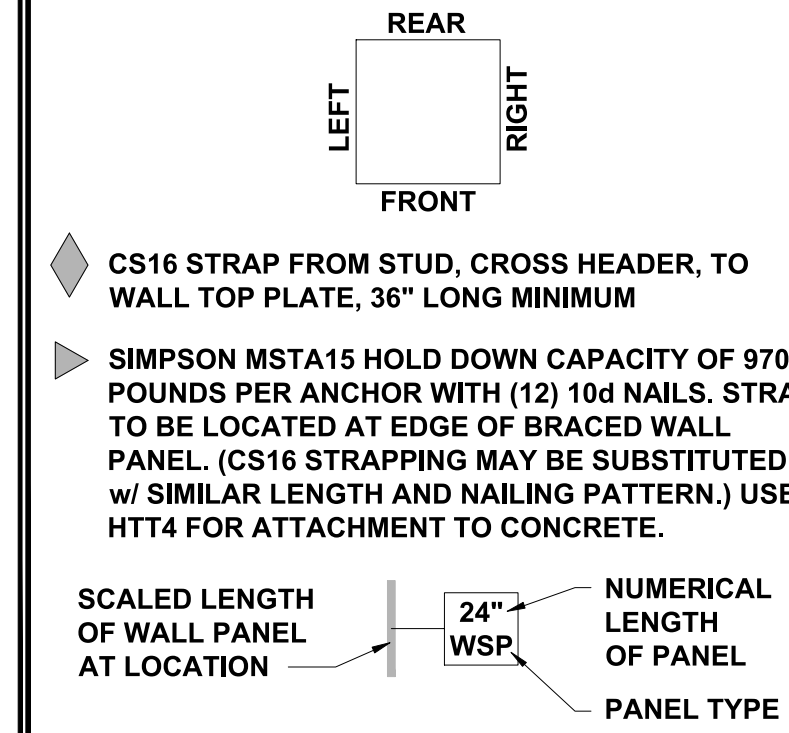


WALL BRACING PLAN

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

WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S).
- SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



ENGINEERED WALL SCHEDULE

- ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.
- ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.
- ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

BEAM & POINT LOAD LEGEND

- INTERIOR LOAD BEARING WALL
- ROOF RAFTER / TRUSS SUPPORT
- DOUBLE RAFTER / DOUBLE JOIST
- STRUCTURAL BEAM / GIRDER
- WINDOW / DOOR HEADER
- POINT LOAD TRANSFER
- POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

- ALL FRAMING TO BE #2 SPF MINIMUM.
- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
- ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).
- FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

TRUSSED ROOF - STRUCTURAL NOTES

- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- DENOTES OVER-FRAMED AREA
- MINIMUM 7/16" OSB ROOF SHEATHING
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

WALL BRACING NOTE:

WALLS WITH PROVIDED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	5.0 FT.	12.0 FT.
RIGHT	5.0 FT.	12.0 FT.
REAR	5.0 FT.	14.0 FT.
LEFT	5.0 FT.	N/A



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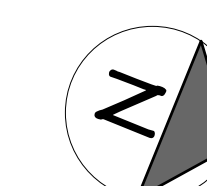
CLIENT: **MATTAMY HOMES**
PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

PROJECT NO: **23900139**

DATE: **03/07/2023** DRAWN BY: **FAB**

FIRST FLOOR FRAMING PLAN

S1.0



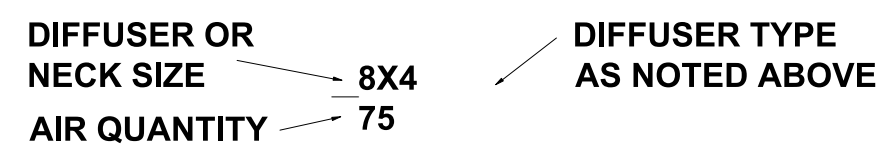
EXHAUST FAN SCHEDULE											
UNIT NO.	SERVICE	CFM	STATIC	RPM	TYPE	MIN. MOTOR HP & VOLTAGE	MAKE	MODEL #	DRIVE	CONTROL SCHEME	REMARKS
EF-1	RESTROOMS	225	0.1	1000	CEILING	813 WATTS/0.77A 120/1	GREENHECK	SP-A250	DIRECT	A	1-5
EF-2	PUMP ROOM	284	0.25	1577	IN-LINE	1/4 HP 120/1	GREENHECK	BSQ-70-4	BELT	B	1-6
EF-3	CHEM ROOM	129	0.25	1050	IN-LINE	1/4 HP 120/1	GREENHECK	BSQ-70-4	BELT	B	1-6

- NOTES**
- SCREEN
 - BACKDRAFT DAMPER
 - COLOR BY OWNER
 - INTEGRAL DISCONNECT SWITCH
 - SPEED CONTROLLER
 - CORROSION RESISTANT

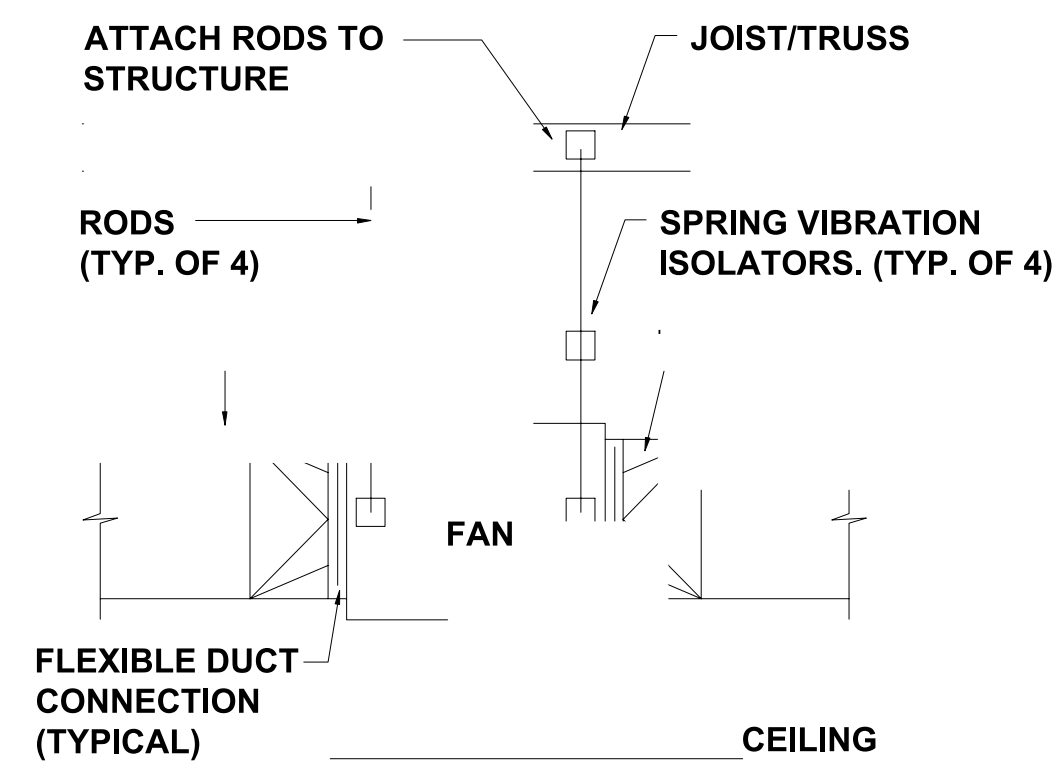
- CONTROL OPTIONS**
- CONTROL W/ ROOM LIGHTS
 - CONTINUOUS OPERATION

DIFFUSER SCHEDULE											
SYMBOL	CFM	NECK SIZE	MODULE SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MANUFACTURER & MODEL NO.	NOTES
A	AS NOTED	AS NOTED	12X12	SURFACE	EGGCRATE	NO	ALUM	RETURN	NOTE 2	TITUS 50F	1-3

- NOTES**
- DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:

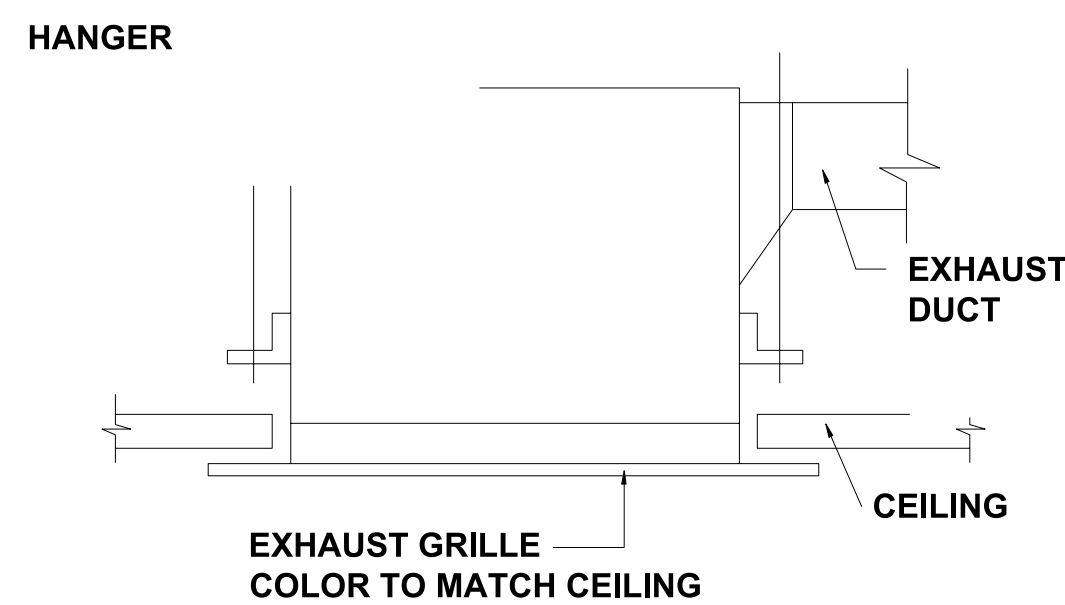


UNIT HEATER SCHEDULE									
TAG	LOCATION	TYPE	BTUH	ELECTRICAL DATA				MANUFACTURER & MODEL NO.	NOTES
				W	V	PH	HZ		
UH-1	BATHROOMS	ELEC	2,560	750	120	1	60	MARKEL E3321TTD-RP	ALL



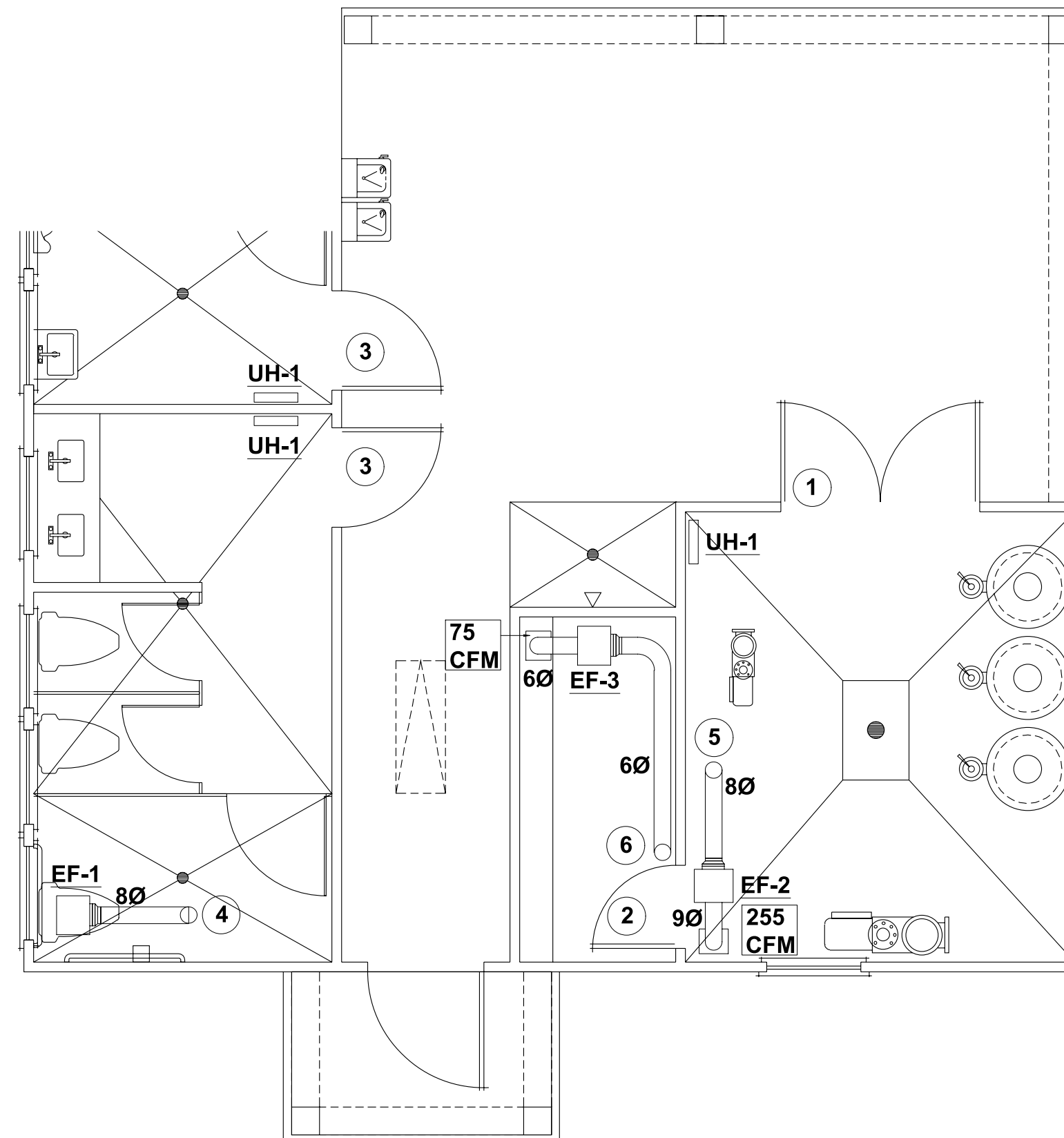
IN-LINE FAN DETAIL

NTS



EXHAUST FAN DETAIL

NTS



MECHANICAL FLOOR PLAN

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

MECHANICAL ABBREVIATIONS

- | | |
|-----|-----------------------|
| ABV | ABOVE |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| CFM | CUBIC FEET PER MINUTE |
| EF | ELECTRIC FAN |
| FA | FRESH AIR |
| HP | HEAT PUMP |
| TWH | INLINE WATER HEATER |

MECHANICAL GENERAL NOTES

- SCALE DRAWINGS. SEE ARCHITECTURAL PLANS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSER. DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST ASHRAE STANDARDS. ALL RECTANGULAR SUPPLY AND EXHAUST DUCTWORK AND ALL ROUND DUCT SHALL MEET REQUIREMENTS OF INTERNATIONAL ENERGY CODE SECTION 503.
- NSATE DRAIN PIPING SHALL BE HARD DRAWN R (TYPE 'L'), PVC ACCEPTED.
- FLASHING, DUCTS, VENTS, ETC. EXTENDING THROUGH ROOF AND CEILING SHALL BE FLASHED AND ROOF SHALL BE FLASHED IN A WATERPROOF MANNER. ALL PENETRATIONS IN WALLS OR CEILINGS THAT ARE FIRE RATED SHALL BE SEALED TO THE FIRE RATING OF WALL OR CEILING EVEN IF NOT SHOWN ON PLANS IN A UL LISTED METHOD.
- ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
 - ANY DEVICE REQUIRING A THERMOSTAT FOR CONTROL SHALL BE FURNISHED WITH A THERMOSTAT WHETHER INDICATED ON THE DRAWINGS OR NOT.
 - LOCATE ALL THERMOSTATS AND SWITCHES 48" AFF TO MEET ACCESSIBILITY CODE LATEST ADDITION.
 - MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS.
 - CONTRACTOR SHALL COORDINATE DESIGN DRAWINGS WITH ARCHITECTURAL DRAWINGS.

ADDITIONAL MECHANICAL NOTES

- CLEAR AREA DIMENSION. INTERIOR DUCT INSULATION MUST HAVE AN R-VALUE OF 5.0. ANY FLEX DUCT THAT RUNS OVER 10 FEET SHALL HAVE AN R-VALUE OF 6.0. ANY FLEX DUCT WHICH RUNS IN THE ATTIC SPACE SHALL HAVE AN R-VALUE OF 8.0. ALL DUCTWORK OUTSIDE BUILDING SHALL HAVE A MIN. R-8 VALUE.
- COORDINATE ELECTRICAL REQUIREMENTS OF THE UNITS WITH ELECTRICAL CONTRACTOR.
- PROVIDE RETURN AIR GRILL WITH FILTER.
- ALL EQUIPMENT AND DUCTWORK SHALL BE INSTALLED PER MANUFACTURER AND IN ACCORDANCE WITH STATE AND LOCAL CODES AS WELL AS SMACNA STANDARDS.
- ALL UNITS TO BE WIRED FOR SINGLE SOURCE POWER. ALL AHU SHALL HAVE AN AUTOMATIC SHUT DOWN SWITCH INSTALLED.
- BATHROOM TO BE EQUIPPED WITH EXHAUST FANS PROVIDED BY THE MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL DUCT TO OUTSIDE. FANS SHALL BE WIRED BY ELECTRICAL CONTRACTOR.
- MECHANICAL CONTRACTOR TO COORDINATE DUCTWORK LAYOUT WITH ALL TRADES.
- REFRIGERANT LINES TO BE SIZED BY MANUFACTURER FOR LENGTH OF RUN BETWEEN COIL AND CONDENSER.
- VERIFY THERMOSTAT LOCATIONS WITH OWNER.
- MECHANICAL SYSTEM TO BE BALANCED AND TESTED AFTER INSTALLATION TO ASSURE PROPER OPERATION.

POOL EXHAUST CALCULATIONS

PUMP ROOM
= 152 SQ FT X 10 FT = 1520 CU FT
10 AIR CHANGES/HOUR = 1520 X (10/60) = 254 CFM
(EF-2 PROVIDES 284 CFM)

CHEMICAL STORAGE ROOM
= 45 SQ FT X 10 FT = 450 CU FT
10 AIR CHANGES/HOUR = 450 X (10/60) = 75 CFM
(EF-3 PROVIDES 129 CFM)

TAGGED PLAN NOTES

- PUMP ROOM DOOR REQUIRES A MIN. FREE AREA OF 0.83 SQFT. FULL HEIGHT LOUVERED DOOR, SEE ARCH. PLANS FOR DOOR DETAILS.
- CHEMICAL STORAGE ROOM DOOR REQUIRES A MIN. FREE AREA OF 0.26 SQFT. DOOR LOUVER GRILLE, SEE ARCH. PLANS FOR DOOR DETAILS.
- BATHROOM DOOR REQUIRES A MIN. FREE AREA OF 0.45 SQFT. DOOR LOUVER GRILLE, SEE ARCH. PLANS FOR DOOR DETAILS.
- 80 EXH. DUCT TO EXHAUST THROUGH ROOF.
- 80 EXH. DUCT TO EXHAUST THROUGH ROOF. PROVIDE AIR TIGHT CONNECTION BETWEEN DUCT AND ROOF.
- 60 EXH. DUCT TO EXHAUST THROUGH ROOF. PROVIDE AIR TIGHT CONNECTION BETWEEN DUCT AND ROOF.



P-0961

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CLIENT: **MATTAMY HOMES**

PROJECT: **PROVIDENCE CREEK AMENITY CENTER & POOL**

LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO: **23900139**

DATE: **03/07/2023** DRAWN BY: **FAB**

MECHANICAL PLAN

M1.0

POOL NOTES

- ALL ELECTRICAL EQUIPMENT IN POOL AREA SHALL BE BONDED TOGETHER WITH #8 CU. GND. PER N.E.C. #680-26.
- ALL RECEPTACLES IN POOL AREA WITHIN 20' OF POOL AND IN POOL EQUIPMENT ROOM SHALL BE WEATHERPROOF G.F.C.I. TYPE.
- ELECTRICAL INSTALLATION IS TO BE IN COMPLIANCE WITH ARTICLE 680 OF THE N.E.C.
- THE FOLLOWING ITEMS ARE REQUIRED TO BE BONDED WITH #8 COPPER WIRE, OR AS OTHERWISE REQUIRED BY THE N.E.C. OR EQUIPMENT MANUFACTURERS:
 - ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING REINFORCING STEEL WITHIN 5' HORIZONTALLY OF THE POOL WALL IN ALL CONCRETE SLABS.
 - UNDERWATER LIGHT FIXTURES, INCLUDING FORMING SHELLS, MOUNTING BRACKETS AND JUNCTION BOXES AS REQUIRED.
 - HANDRAILS.
 - LADDERS.
 - PUMP MOTORS, FOR ALL POOLS.
 - WINDOW FRAMES, WHERE NOTED.
 - LIGHT FIXTURES ABOVE THE POOL AND WITHIN 5 FEET HORIZONTALLY OF THE POOL WALLS.
 - ANY OTHER METALLIC PARTS REQUIRED BY THE N.E.C.
- THE FOLLOWING ITEMS ARE REQUIRED TO BE GROUNDED WITH INSULATED #12 COPPER WIRE, OR AS OTHERWISE REQUIRED BY THE N.E.C. OR EQUIPMENT MANUFACTURERS:
 - UNDERWATER LIGHTING FIXTURES.
 - ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE CIRCULATION SYSTEM OF THE POOL.
 - ALL ELECTRICAL EQUIPMENT WITHIN 5 FEET OF THE POOL.
 - JUNCTION BOXES.
 - TRANSFORMER ENCLOSURES.
 - PANELBOARDS SUPPLYING POWER TO ANY EQUIPMENT ASSOCIATED WITH THE POOL OR SPRAY AREA.
 - GROUND FAULT INTERRUPT CIRCUITS.
- GROUNDING FOR POOL LIGHTS AND FOR PUMP MOTORS IS TO BE IN CONDUIT.
- ALL UNDERWATER LIGHT FIXTURES MUST BE SUBMERGED BEFORE BEING OPERATED.
- UNDERWATER LIGHT FIXTURES MUST BE REMOVABLE FROM THE WATER FOR RELAMPING OR NORMAL MAINTENANCE WITHOUT REQUIRING DRAINAGE OF THE POOL.
- NICHE LIGHT FIXTURES SHALL BE SUPPLIED WITH CORDS WHICH ARE LONG ENOUGH TO REACH THE DECK JUNCTION BOX WITHOUT INTERMEDIATE SPLICING. CONDUIT RUNS FROM EACH NICHE TO THE APPROPRIATE CONNECTION POINT (DECK BOX, SUBMERSIBLE JUNCTION BOX, ETC.) MUST BE AS DIRECT AS POSSIBLE AND A TOTAL LENGTH SHORTER THAN THE CORD WHEN PROPERLY INSTALLED. TO PROPERLY INSTALL FIXTURE AND CORD, LEAVE ENOUGH CORD IN THE NICHE SO THAT WHEN SERVICING IS REQUIRED THE FIXTURE CAN BE LIFTED ABOVE WATER LEVEL WITHOUT DRAINING THE POOL (WRAP EXTRA CORD LENGTH AROUND THE FIXTURE WHEN PLACING IN NICHE).
- WHEN RESEALING A FIXTURE (SUCH AS AFTER RELAMPING, ETC.) CARE MUST BE TAKEN TO TIGHTEN THE SCREWS OR BOLTS IN SUCH A FASHION AS TO CREATE EQUAL PRESSURE ON THE GASKET ALL THE WAY AROUND THE FIXTURE (FOLLOW MANUFACTURERS INSTRUCTIONS).
- ALL THREADED CONNECTIONS MUST BE MADE WITH NATIONAL TAPERED PIPE THREADS (N.P.T.) AND APPROVED THREAD SEALANT.

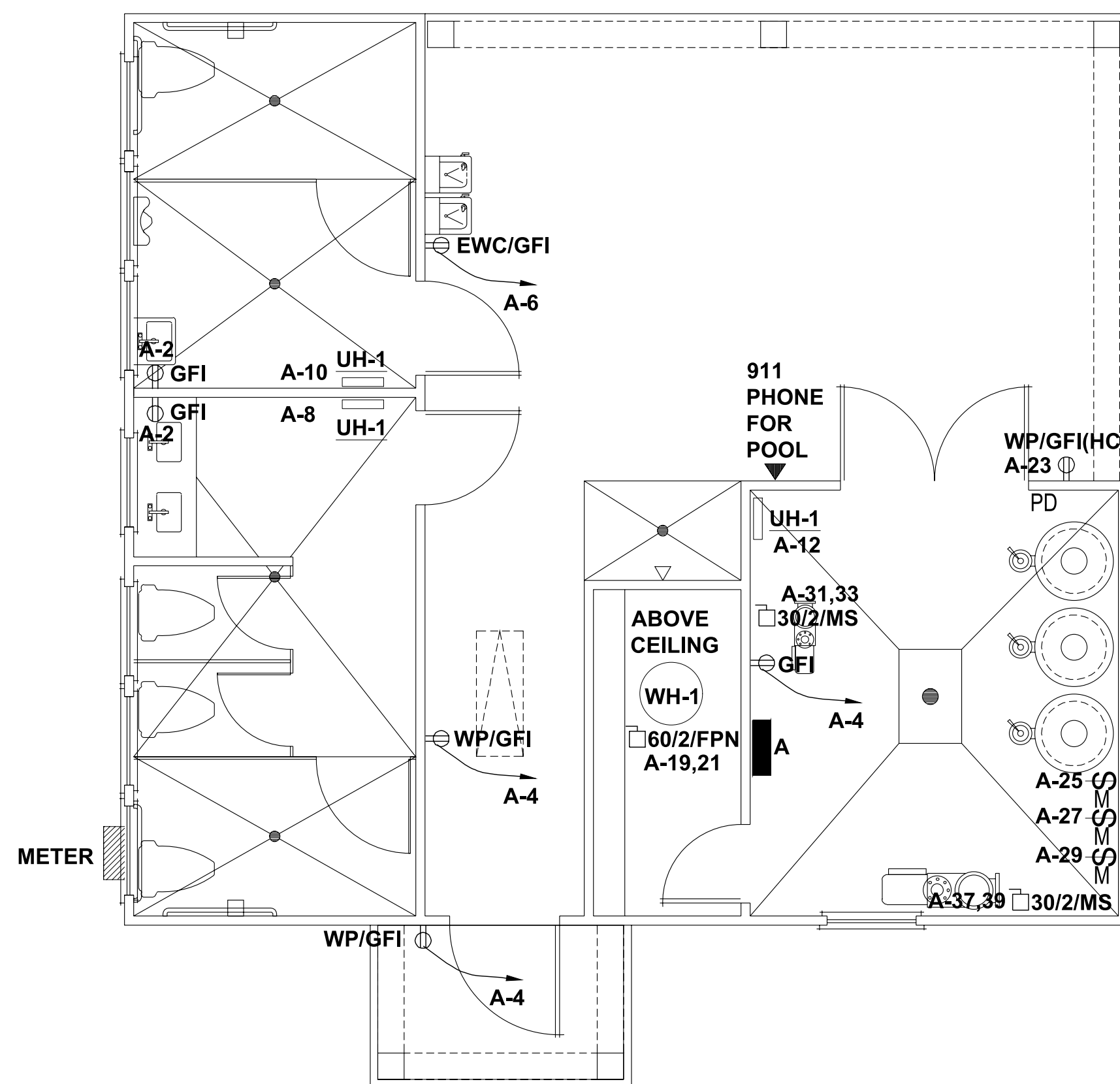
- AN APPROVED POTTING COMPOUND (LOW MELTING PARAFFIN OR RTV SILASTIC) MUST BE USED TO FILL THE ENTRY OF THE JUNCTION BOX TO PREVENT MOISTURE MIGRATION INTO THE CONDUIT. AFTER POTTING THE JUNCTION BOX, ATTACH THE COVER PLATE SO THAT IT IS WATERTIGHT.
- ALL METALLIC PIPING SYSTEMS ASSOCIATED WITH THE POOL MUST BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR OF THE BRANCH CIRCUIT SUPPLYING THE POOL.
- UNDERWATER TYPE SO AND ST CORD CANNOT BE SPLICED EXCEPT IN AN APPROVED UNDERWATER JUNCTION BOX OR UL LISTED UNDERWATER SPLICE KIT.
- MAXIMUM EXPOSED CORD LENGTH IS 10 FEET, ANY LENGTH BEYOND 10 FEET MUST BE PROTECTED BY CONDUIT.
- THE CONDUIT SYSTEM MUST BE WATERTIGHT FROM THE PANEL TO THE POOL.
- ALL CONDUITS EXPOSED TO MOISTURE (BELOW GROUND, IN THE POOL, ETC.) MUST BE OF A NON-CORROSIBLE MATERIAL.
- ALL POOL EQUIPMENT MOTORS SHALL BE PROVIDED WITH MOTOR STARTERS AS REQUIRED AND ALL CONTROL WIRING SHALL BE FURNISHED TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.

ELECTRICAL ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
CU	COPPER WIRE
EF	ELECTRIC FAN
EL	EMERGENCY LIGHTING
EM	EMERGENCY EXIT SIGN
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HP	HEAT PUMP
J	JUNCTION BOX
MCB	MINIATURE CIRCUIT BREAKER
PH	PHASE
OS	MOTION SENSOR
TWH	INLINE WATER HEATER

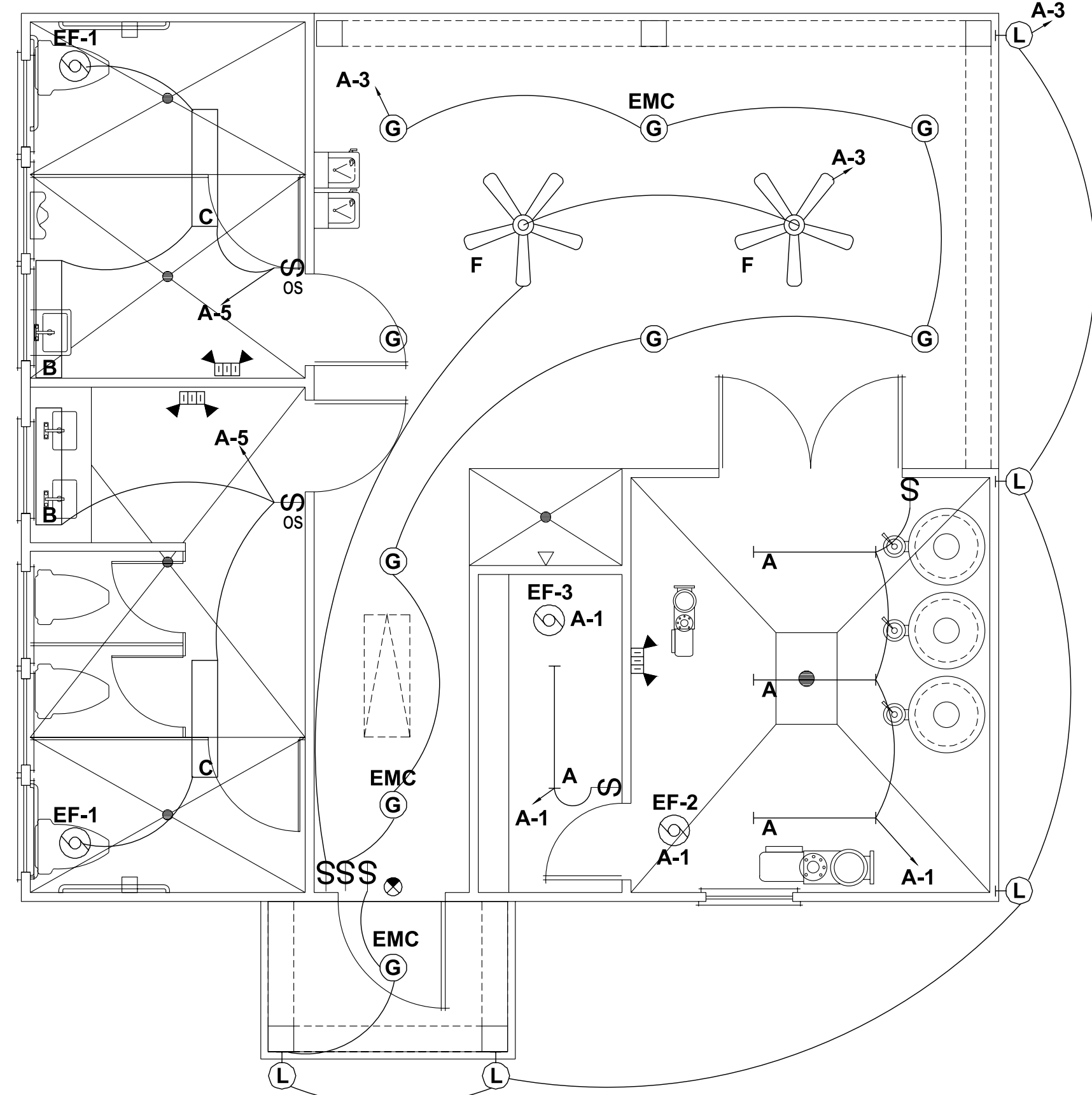
ELECTRICAL NOTES

- CAL CONTRACTOR IS TO REVIEW COMPLETE DRAWING SET BEFORE ANY WORK INSTALLATION IS STARTED.
- CAL CONTRACTOR IS TO REPORT ON ANY DISCREPANCY(S) TO ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION AND/OR SOLUTION.
- CAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK EXPLICITLY SHOWN AND IMPLIED UNLESS OTHERWISE NOTED.
- DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ELEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE REVERSED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL BE AS SHOWN.
- CAL CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES TO AVOID CONFLICTS AND MISTAKES, AND TO ENSURE OTHER TRADES PROVIDE MEASUREMENTS TO ACCOMMODATE ELECTRICAL WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF PENETRATIONS, ETC.)
- CAL CONTRACTOR TO VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO START-UP, NOTIFY ENGINEER OF ANY CHANGES AS MAY BE REQUIRED.
- FINAL ELECTRICAL CONNECTION(S) TO ALL EQUIPMENT, AND/OR FURNITURE (I.E. CUBICLES, WORKSTATIONS, ETC.) IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 - ALL CONDUCTORS SHALL BE COPPER AND TYPE NM #12AWG MINIMUM WIRE SIZES SHALL BE BASED ON 75 DEGREE WIRE & TERMINALS.
 - ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.
 - ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH ELECTRICAL UTILITY PRIOR TO PURCHASING DISTRIBUTION EQUIPMENT.
 - ALL EQUIPMENT AND COMPONENTS INSTALLED AS PART OF THIS FACILITY SHALL BE NEW U.L. LISTED AND LABELED, AND INSTALLED PER THE 2008 NEC, ANY JURISDICTIONAL REQUIREMENTS AND PER THE MANUFACTURERS REQUIREMENTS.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADE DISCIPLINE TO AVOID INTERFERENCE AND RE-WORK.
 - ALL CONDUCTORS TO BE INSTALLED UNDERGROUND SHALL BE INSTALLED 24" B.F.G AND IN SCHEDULE 40 PVC CONDUIT.
 - ALL FLUORESCENT LAMPS SHALL BE T-8 SP 41 OR APPROVED EQUAL LAMPS SHALL BE ENVIRONMENTALLY SAFE.
 - ELECTRICAL CONTRACTOR SHALL CHECK FOR ELIMINATE SHORTS PRIOR TO ENERGIZING CIRCUITS. FAILURE TO DO SO WILL RESULT IN REPAIRS TO BE MADE AT NO EXPENSE TO OWNERS OR REPRESENTATIVES.
 - ELECTRICAL CONTRACTORS OR DESIGNATED TELECOMMUNICATIONS SUBCONTRACTOR SHALL COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE COMPANY.
 - FIRESTOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS, AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING, PROVIDE A DEVICE(S) OR SYSTEM(S) WITH AN "F" RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL BATHROOM EXHAUST FAN MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL BATHROOM EXHAUST DUCTWORK.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAY SEALS TO MAIN DISTRIBUTION PANELS PER NEC 225.27.
 - ALL DEVICES TO BE INSTALLED FOR ADA ACCESSIBILITY PER ANSI A117.1
 - CONDUIT ENTERING COOLER AND FREEZER TO BE SEALED PER NEC 300.7
 - ELECTRICAL CONTRACTOR TO PROVIDE AIC PLAQUES PER NEC 110.24. WHERE APPLICABLE, PLAQUES SHALL ALSO INDICATE THAT THE BUILDING HAS TWO, OR MORE SERVICES IF TWO, OR MORE EXIST FOR THE BUILDING.
 - ALL EMERGENCY LIGHTS TO BE CONNECTED TO UNSWITCHED SIDE OF NEAREST LIGHT CIRCUIT.
 - ALL EXTERNAL LIGHTING TO BE CONNECTED TO TIMER AND PHOTO -CELL IF NOT INCLUDED.
 - WHENEVER AND WHEREVER APPLICABLE ALL OUTLETS/RECEPTICLES INSIDE OF ALL AMENITY STRUCTURES SHALL BE TAMPER RESISTANT.



ELECTRICAL FLOOR PLAN - POWER

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



ELECTRICAL FLOOR PLAN - LIGHTING

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

S	S	SWITCH, SINGLE POLE, 120/277V, 20A, 48" AFF, LEVITON 1221-2
S _M	S _M	120 V, 20A, MOTOR RATED TOGGLE SWITCH
OS		OCCUPANCY SENSOR SWITCH, 120/277V, 20A, 48" AFF
⊖		RECEPTACLE, DUPLEX, 120V, 20A, 18" AFF LEVITON TBR20 (TAMPER-RESISTANCE RECEPTACLE)
⊖ GFI		RECEPTACLE, DUPLEX GFI, 120V, 20A, ABOVE CABINET COUNTER TOP, GROUND FAULT INTERRUPTER LEVITON 6898 (EXTERIOR IN NEMA 3R ENCLOSURE)
⊖		EXHAUST FAN
⊖		CEILING MOUNTED FAN
■		ELECTRICAL PANEL
⊖		PROPOSED METER
⊖		HEAVY DUTY DISCONNECT SWITCH
⊖		LIGHTED EMERGENCY EXIT SIGN WITH BATTERY BACKUP
⊖		EMERGENCY LIGHTS WITH BATTERY BACKUP
⊖		WALL MOUNTED LIGHT
⊖		RECESSED LIGHT
⊖		RECESSED MOUNTED 2X4 FLUORESCENT STRIP
⊖		SURFACE MOUNTED FLUORESCENT STRIP



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CLIENT: **MATTAMY HOMES**
PROJECT: **PROVINCIE CREEK AMENITY CENTER & POOL**
LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

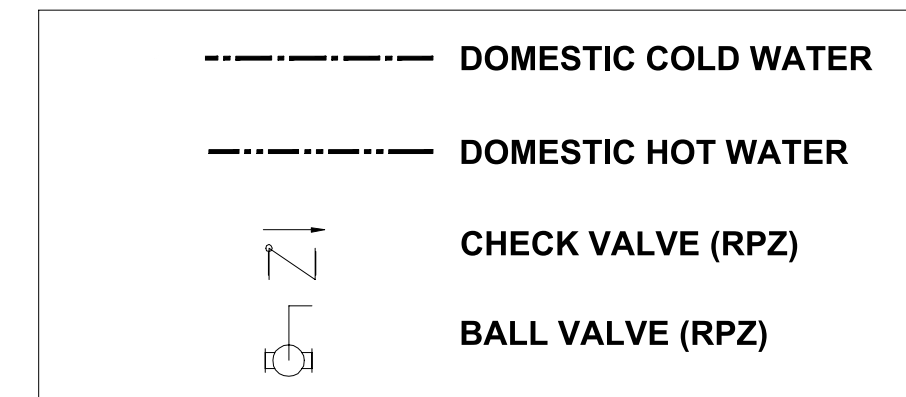
PROJECT NO.: **23900139**
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ELECTRICAL PLANS

E1.0

PLUMBING ABBREVIATIONS

- ABV ABOVE
- AFF ABOVE FINISHED FLOOR
- HB HOSE BIBB
- REF REFRIGERATOR
- RPZ BACK FLOW PREVENTER
- TWH INLINE WATER HEATER
- VTR VENT THRU ROOF



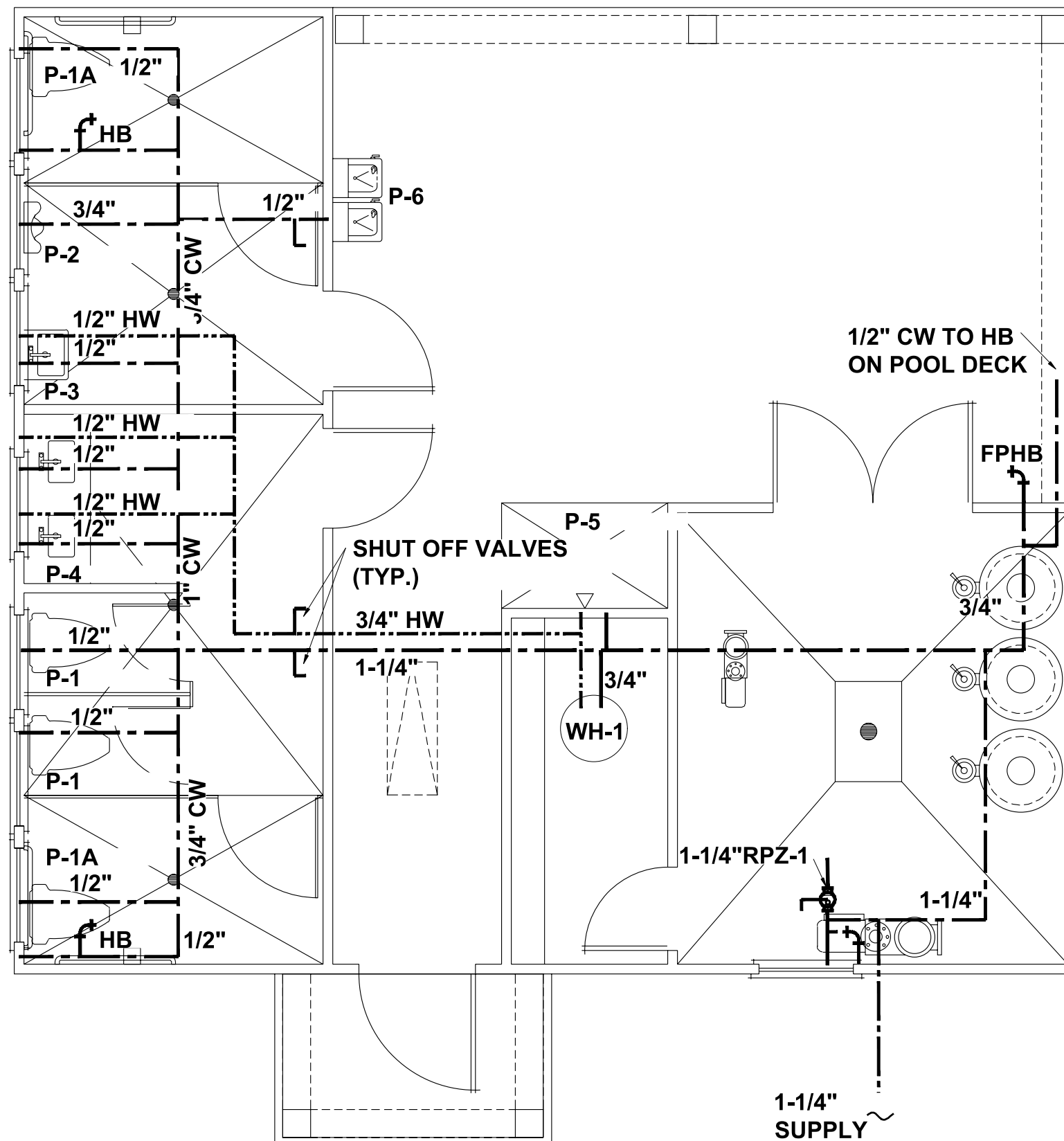
PLUMBING NOTES

1. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH THE APPROVED EDITIONS OF THE PLUMBING CODE, THE LOCAL ADMINISTRATIVE AUTHORITY AND APPLICABLE NFPA CODES. INSULATE DOMESTIC COLD & HOT WATER PIPING. PATCH EXISTING INSULATION WHERE DAMAGED UNDER CONSTRUCTION AND WHERE NEW CONNECTIONS ARE MADE.
2. THE CONTRACTOR SHALL APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. ACREAGE CHARGES, BONDS, PROPERTY ASSESSMENTS AND FACILITIES CHARGE SHALL NOT BE CONSTRUED TO BE A PART OF THIS CONTRACT.
3. ALL MATERIALS AND EQUIPMENT PROVIDED AND/OR INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF TURNOVER OF THE WORK TO THE OWNER.
4. THE PLUMBING CONTRACTOR SHALL COORDINATE WORK WITH THE CONTRACTORS OF OTHER TRADES, AND COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE CONDITIONS OF THE BUILDING PERMITS.
5. INSTALL ANY GAS PIPING IN ACCORDANCE WITH CURRENT GAS CODES, REQUIREMENTS OF LOCAL GAS SUPPLIER AND N.B.F.U.
6. DOMESTIC WATER PIPE AND FITTINGS INSIDE BUILDINGS SHALL BE TYPE L COPPER BELOW AND ABOVE GRADE, JOINTS SHALL BE 95/5 SOLDER.
7. FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING, PROVIDE A DEVICE(S) OR SYSTEM(S) PENETRATED.
8. ALL PLUMBING FIXTURES ARE THE BE EQUIPPED WITH WATER HAMMER ARRESTORS AS PER PLUMBING CODE 604.9. ARRESTORS ARE EXEMPT IF PLASTIC PIPE USED, PC 604.9 PLUMBING CONTRACTOR AND GENERAL CONTRACTOR TO VERIFY.
9. ALL PLUMBING MATERIALS USED WILL COMPLY WITH THE LATEST PLUMBING CODE.
 - A. ANY ABOVE-GROUND DRAINAGE AND VENT PIPING SHALL COMPLY WITH SECTION 702.1
 - B. ANY UNDERGROUND SANITARY DRAINAGE AND VENT PIPING SHALL COMPLY WITH SECTION 702.2.
 - C. ANY WATER SERVICE PIPE SHALL COMPLY WITH SECTION 605.3.
 - D. ANY WATER DISTRIBUTION PIPE SHALL COMPLY WITH SECTION 605.4.

MATERIAL SPECIFICATIONS

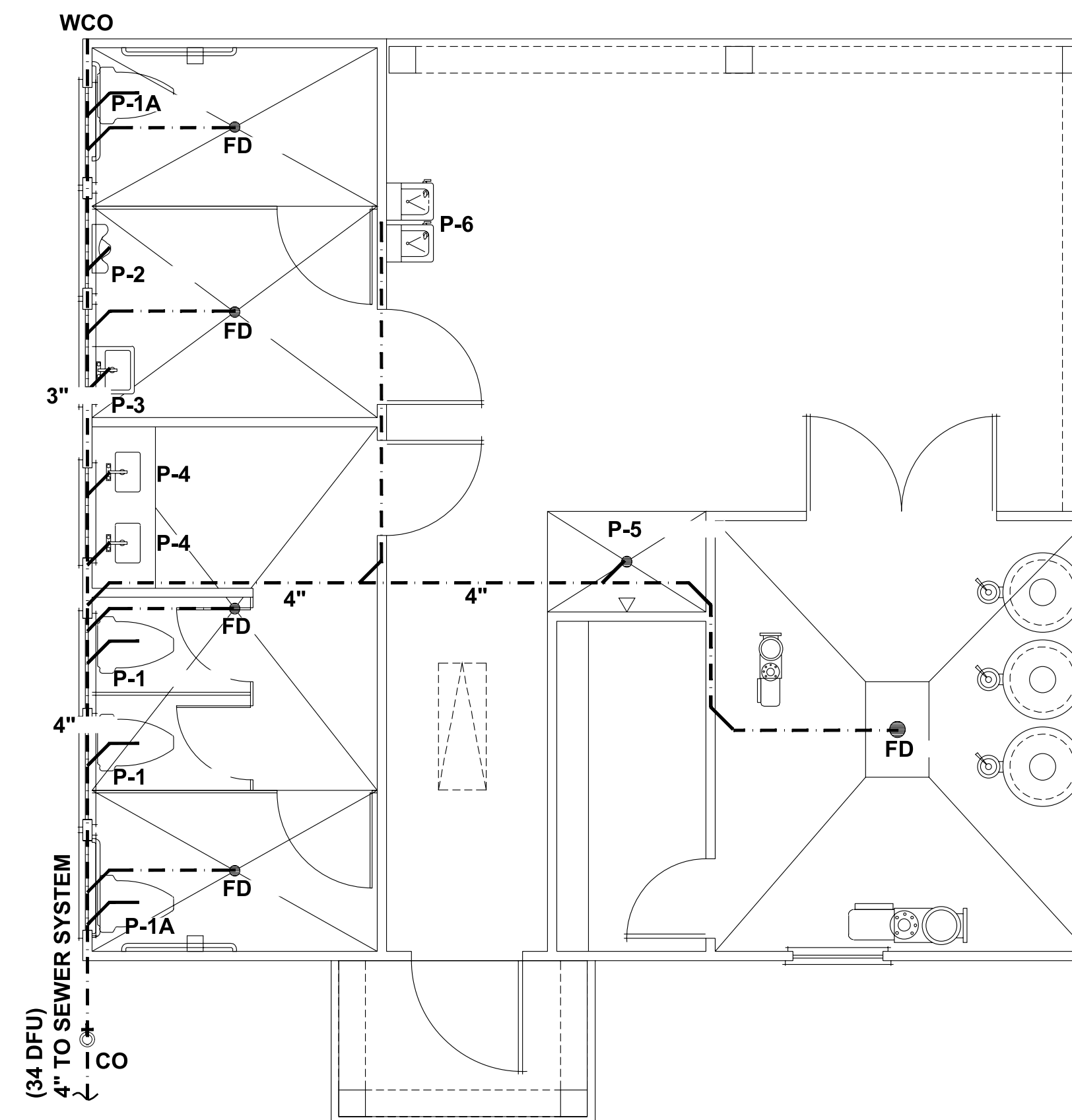
1. PIPE INSULATION: DG TURBOLIT FOAM PIPE INSULATION
2. WASTE: SCHEDULE 40 PVC
3. VENT: SCHEDULE 40 PVC
4. DOMESTIC WATER: COPPER / PEX / CPVC

SYMBOL	FIXTURE	TYPE	MANUFACT.	MODEL	MATERIAL	STYLE	FAUCET/VALVE				DRAIN		SUPPLIES AND STOPS	PIPE SIZES				MOUNTING	NOTES
							MANUFACT. MODEL NO.	SPOUT	HANDLES	CENTERS	TYPE	SIZE		WASTE	VENT	CW	HW		
P-1	WATER CLOSET	FLUSH TANK	AMERICAN STANDARD	2435.012	VITREOUS CHINA	STANDARD ELONGATED	-	-	-	-	-	MCGUIRE 185	3"	2"	1/2"	-	FLOOR	PROVIDE WITH OPEN FRONT SEAT WITH NO LID	
P-1A	WATER CLOSET	FLUSH TANK	AMERICAN STANDARD	2437.012	VITREOUS CHINA	ADA ELONGATED	-	-	-	-	-	MCGUIRE 185	3"	2"	1/2"	-	FLOOR	PROVIDE WITH OPEN FRONT SEAT WITH NO LID AT ADA HEIGHT	
P-2	URINAL	FLUSH VALVE	AMERICAN STANDARD	6541.132	VITREOUS CHINA	ADA ELONGATED	SLOAN ROYAL 186-1-ADA	-	-	-	-	-	3"	1-1/2"	3/4"	-	WALL	MOUNT AT REQUIRED ADA HEIGHT	
P-3	LAVATORY	WALL HUNG	AMERICAN STANDARD	355.012	VITREOUS CHINA	ADA COMPLIANT	MOEN 8894	CENTERSET	SINGLE LEVER	4"	GRID	1-1/2"	MCGUIRE 175	2"	1-1/2"	1/2"	1/2"	WALL HUNG	MOUNT AT ADA HEIGHT METERING FAUCET PROVIDE SHOCK ARRESTOR
P-4	LAVATORY	SINGLE COMP'T	AMERICAN STANDARD	476.028	VITREOUS CHINA	ADA OVAL	MOEN 8894	CENTERSET	SINGLE LEVER	4"	GRID	1-1/2"	MCGUIRE 175	2"	1-1/2"	1/2"	1/2"	COUNTER TOP	MOUNT AT ADA HEIGHT METERING FAUCET PROVIDE SHOCK ARRESTOR
P-5	SHOWER	BY G.C.	-	-	-	ADA 58"x38"	WM-442-ADA	-	SINGLE LEVER	-	INTEGRAL	2"	-	2"	1-1/2"	1/2"	1/2"	FLOOR	PRESSURE BALANCE VALVE, SHOWER HEAD, ARM, FLANGE, & DRAIN
P-6	WATER COOLER	DOUBLE STATION	ELKAY	VRCTLFR8SC	STAINLESS STEEL	ADA COMPLIANT	-	-	-	-	1-1/2"	MCGUIRE 165	2"	1-1/2"	1/2"	1/2"	WALL	MOUNT AT ADA HEIGHT FROST RESISTANT VANDAL RESISTANT	
WH-1	WATER HEATER	ELECTRIC	RHEEM	PROE38 S2 RH95	GLASS LINED	LOWBOY	-	-	-	-	-	-	-	-	3/4"	3/4"	PLATFORM	38 GALLONS, 6.0 KW, 240V, 1.28 GPM REC AT 90F RISE. DRAIN PAN. SET TO 105F	
FD	FLOOR DRAIN	SQAURE TOP	J.R.SMITH	2010	PVC	NIKALOY	-	-	-	-	-	-	-	-	-	-	FLOOR		
WCO	WALL CLEAN-OUT	ROUND COVER	J.R.SMITH	4472	PVC	S.S. COVER	-	-	-	-	-	-	-	-	-	-	WALL		
HB	HOSE BIBB	STANDARD	WOODFORD	24P	CAST BRASS	WALL FAUCET	-	-	LOOSE KEY	-	-	-	-	-	1/2"	-	WALL	W/ PERMANENT VACUUM BREAKER	
FPHB	HOSE BIBB	FREEZE PROOF	WOODFORD	25	CAST BRASS	WALL FAUCET	-	-	LOOSE KEY	-	-	-	-	-	1/2"	-	WALL	COORD. W/ WALL THICKNESS W/ PERMANENT VACUUM BREAKER	



SUPPLY PLAN

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



WASTE PLAN

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



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PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**

LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

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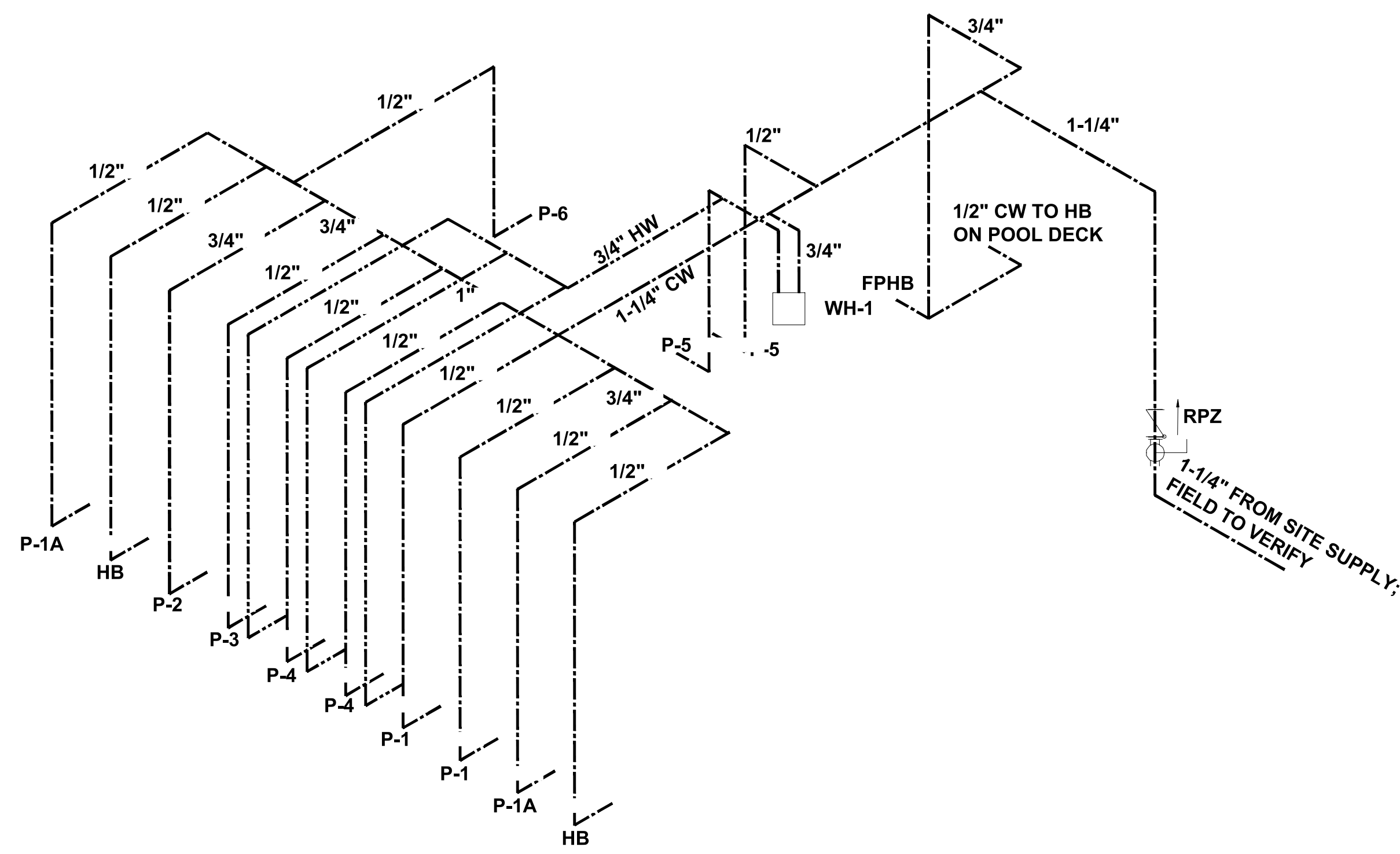
PLUMBING PLANS

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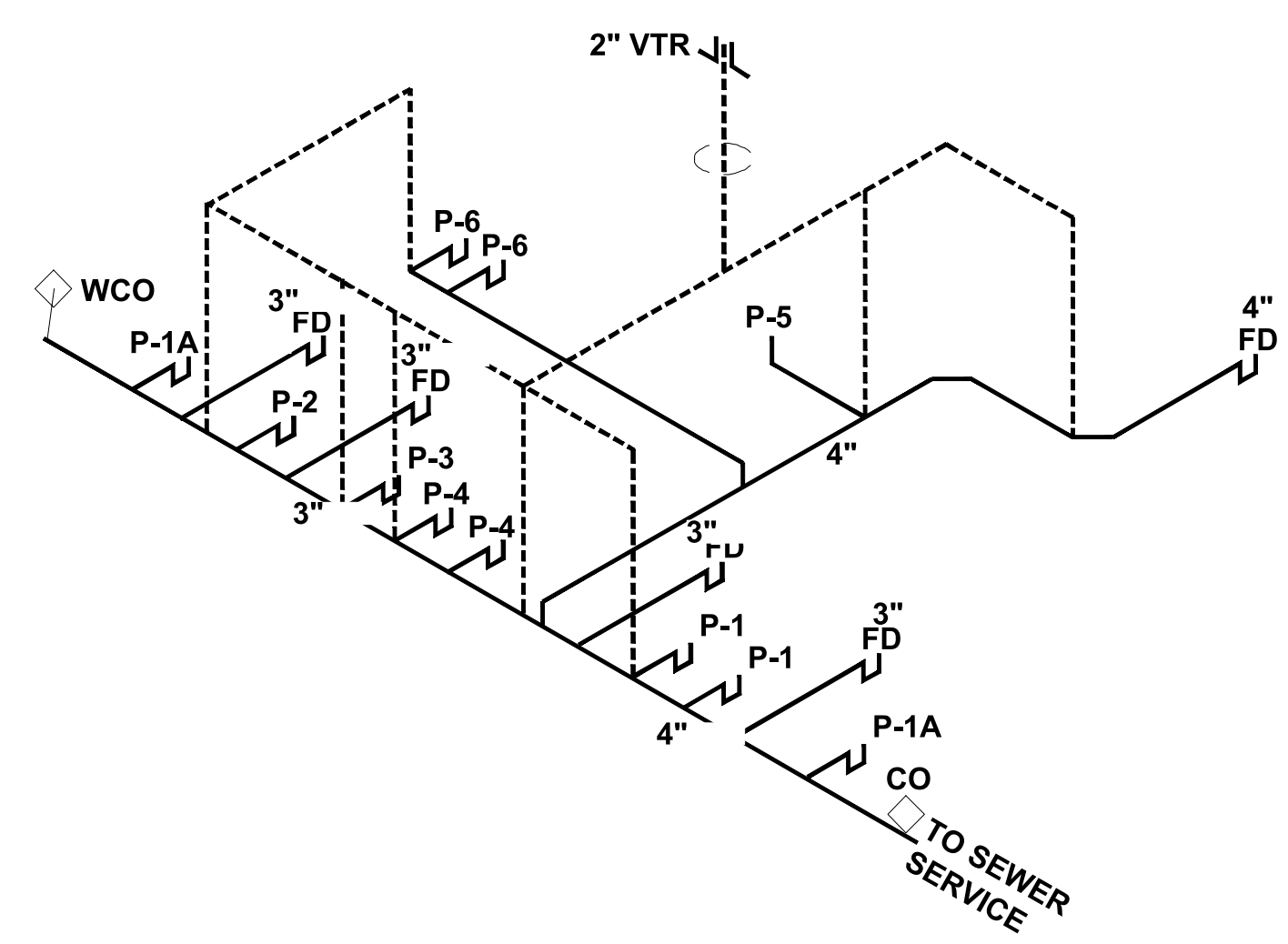


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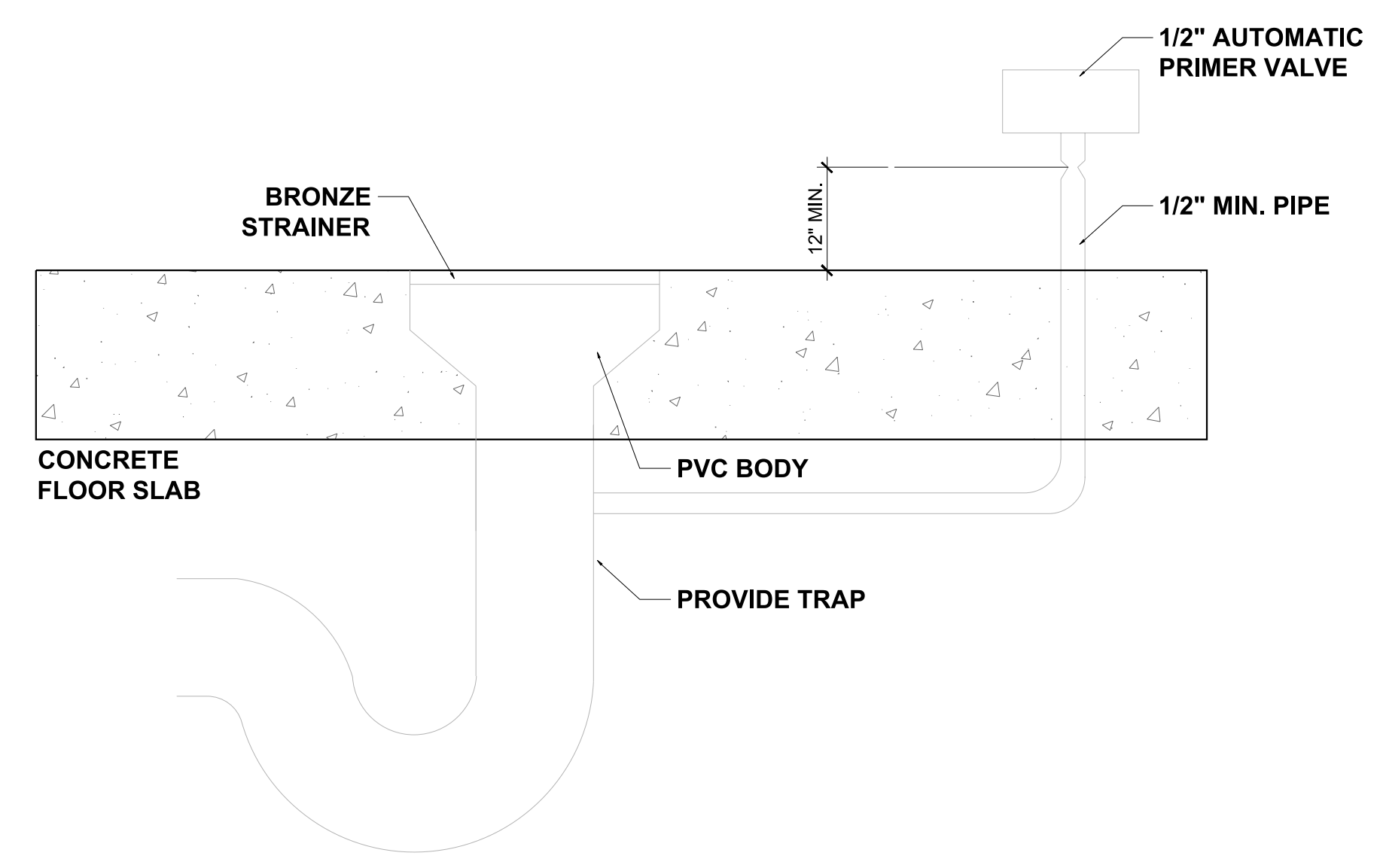
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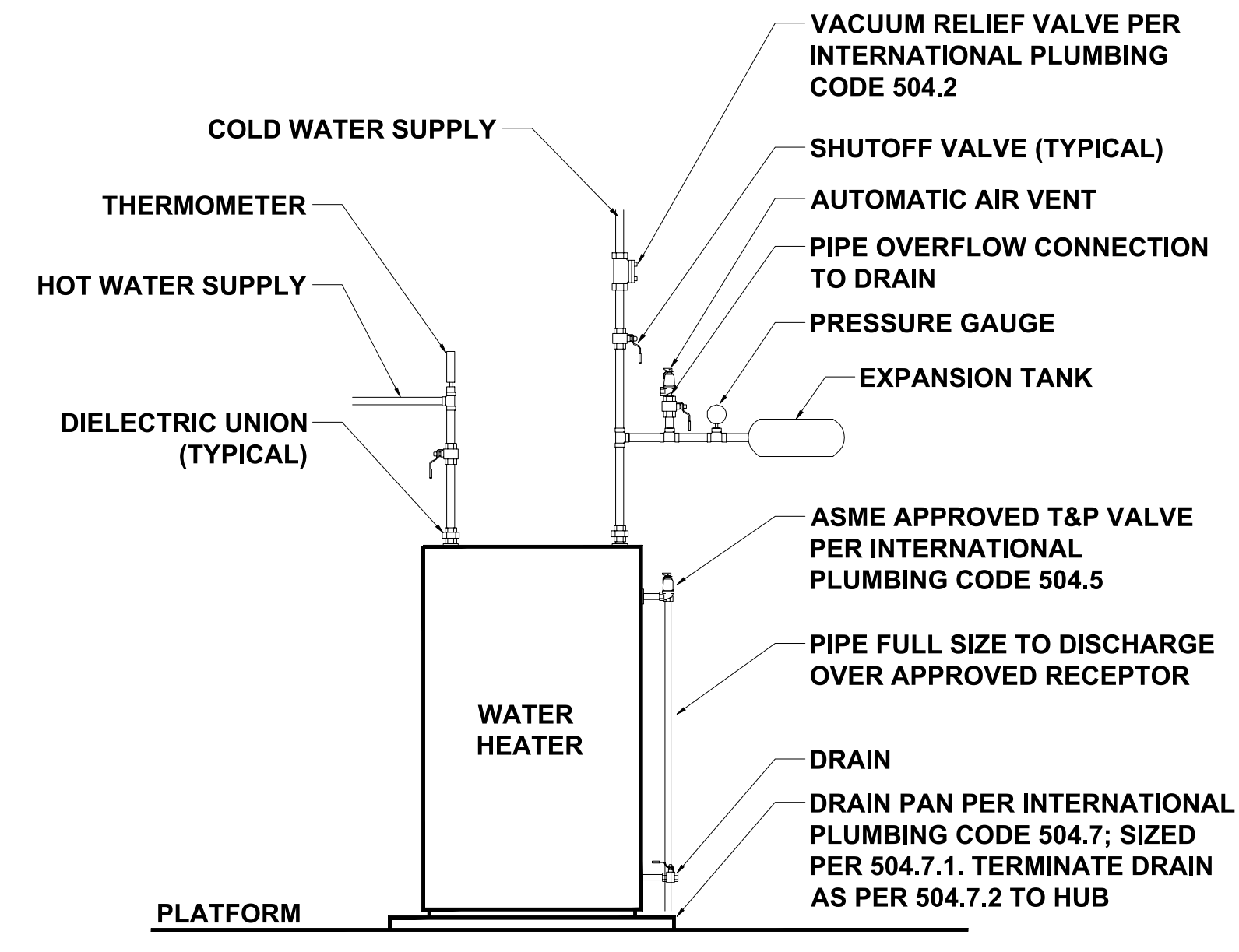
DOMESTIC WATER SUPPLY RISER



SS RISER



FLOOR DRAIN DETAIL



TYPICAL WATER TANK HEATER DETAIL

CLIENT: **MATTAMY HOMES**

PROJECT: **PROVINCIE CREEK AMENITY CENTER & POOL**

LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **23900139**

DATE: **03/07/2023** DRAWN BY: **FAB**

PLUMBING NOTES AND DETAILS

P1.1

POOL PIPING NOTES

- WHERE PIPE IS RUN UNDER FOOTINGS - PROVIDE SCHEDULE 40 PVC SLEEVE A MIN. OF 1'-0" BELOW THE BOTTOM OF THE FOOTER. SLEEVE ABOVE SLEEVE TO BE COMPACTED TO MIN. REQUIREMENTS FOR FOUNDATION SYSTEM.
- ALL POOL PIPE TO BE PRESSURE RATED SCHEDULE 40 PVC. PIPE CONNECTIONS TO SKIMMERS, VACUUM LINES AND INLETS TO BE WELDED.
- PROVIDE TILE OVERFLOW PIPE TO RUN TO DAYLIGHT OUTSIDE OF POOL DECK ENCLOSURE.
- ALL PIPE RUNS ARE SCHEMATIC. RUN PIPE TO MINIMIZE TRENCHING/EXCAVATION.
- ALL PIPES SHALL BE MARKED DESIGNATING FLOW DIRECTION AND IDENTITY.

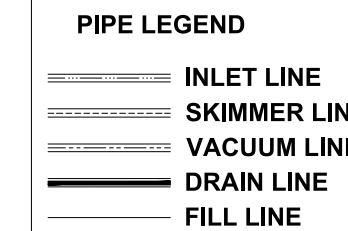
GENERAL NOTES - ELECTRICAL

- SEE ELECTRICAL PLANS BY OTHERS FOR ALL ELECTRICAL DESIGN, INCLUDING ELECTRICAL SPECIFICATIONS, CIRCUITING, AND CONNECTION OF ELECTRICAL DEVICES SCHEDULED ON THE POOL PLANS.
- THE SWIMMING POOL DESIGN INCLUDES, FOR INFORMATION ONLY, CUT SHEETS OF THE UNDERWATER LIGHT FIXTURES, POOL PUMPS AND OTHER POOL EQUIPMENT THAT REQUIRES AN ELECTRICAL CONNECTION, AND THE LOCATION OF THESE ITEMS OF EQUIPMENT.
- BOND ALL NON CURRENT CARRYING METALLIC PARTS RELATING TO POOL. SEE THE BONDING DETAIL ON THIS SHEET.
- AREA LIGHTING NOTE: AREA LIGHTING OF THE POOL DECK IS BY OTHERS.
 - AREA LIGHTING IS TO ILLUMINATE ALL PARTS OF THE POOL, THE WATER, THE DEPTH MARKERS, SIGNS, ENTRANCES, RESTROOMS, SAFETY EQUIPMENT AND THE REQUIRED DECK AREA AND WALKWAYS.
 - NIGHT SWIMMING IS NOT ALLOWED UNTIL AREA LIGHTING IS PROVIDED.
 - REQUIRED TO PROVIDE SUFFICIENT ILLUMINATION OF THE MAIN DRAINS OF THE POOL.
 - REQUIRED TO PROVIDE SUFFICIENT ILLUMINATION OF THE REQUIRED DECK AREA OF THE POOL SO THAT IT IS VISIBLE AT ALL TIMES THE POOL IS IN USE.
 - COORDINATE WITH LOCAL INSPECTOR FOR APPROVAL OF PROPOSED LIGHTING.

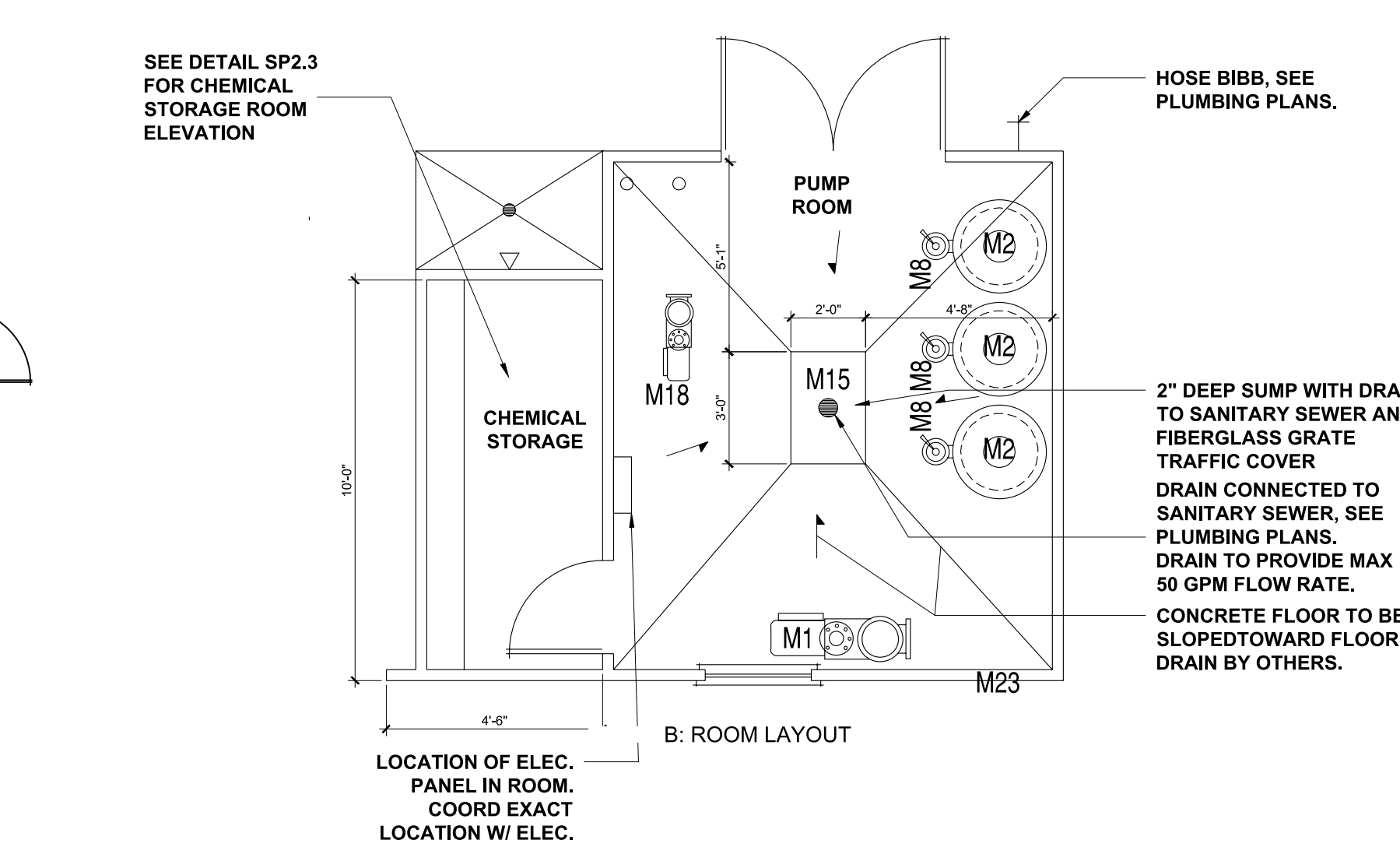
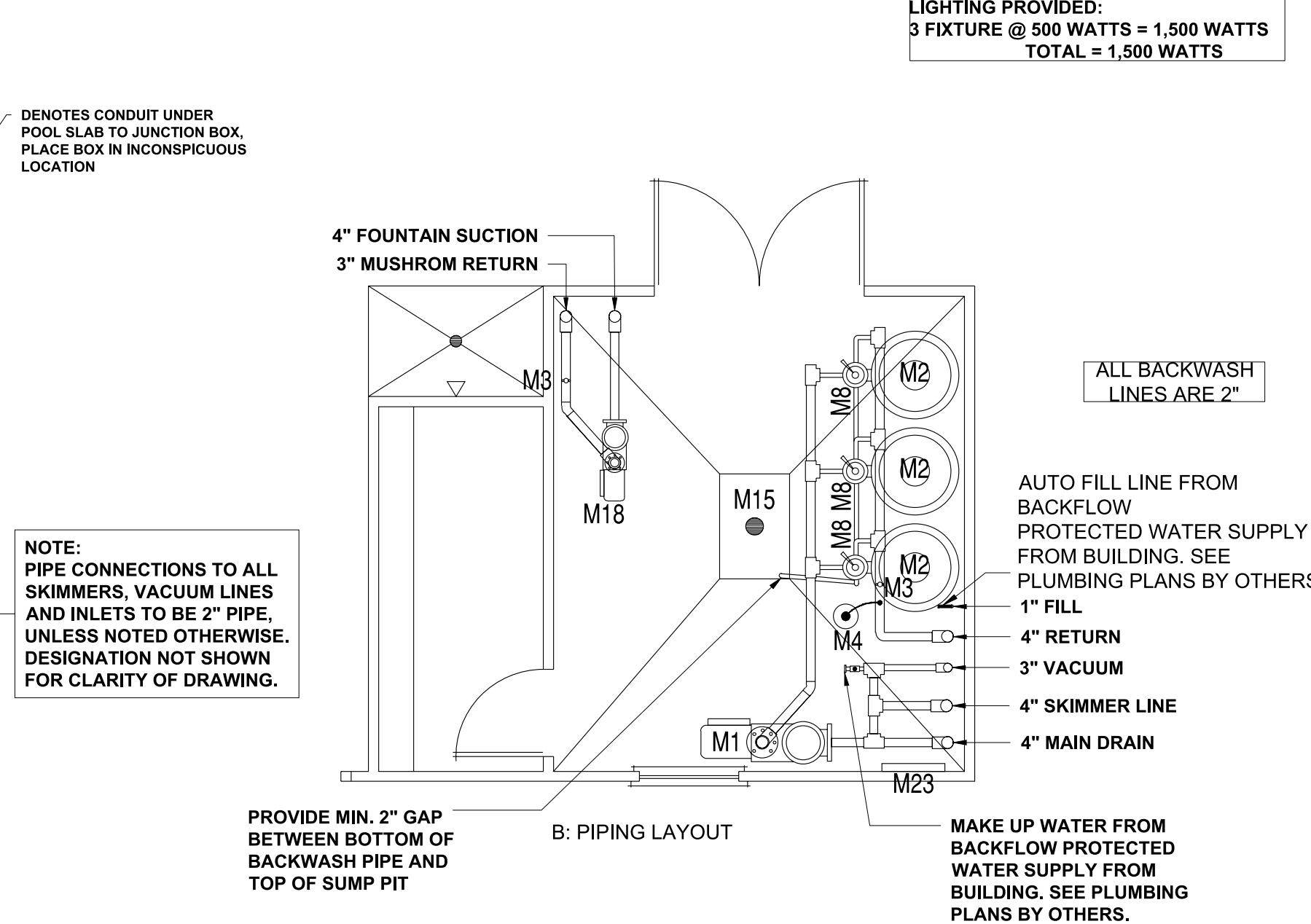
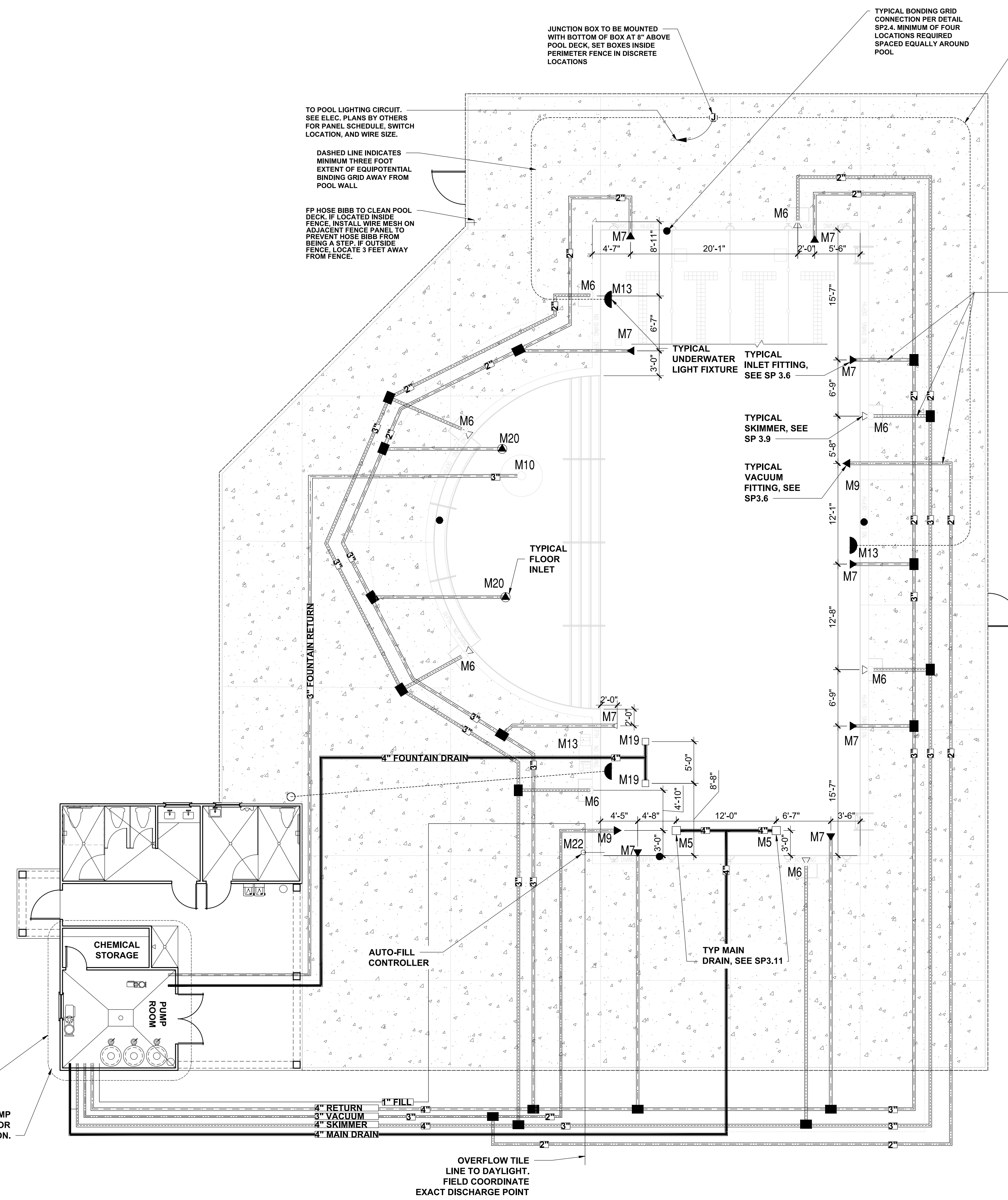
PUMP FLOW PIPE SIZE BASIS "DESIGN FLOW RATE"

OUTDOOR POOL: EQ500 PUMP FLOW AT 65 FEET OF WATER IS 220 GPM. WITH SPECIFIED 4" MAIN DRAIN, SKIMMER LINES, AND RETURN PIPING VELOCITIES ARE AT 5.9 FPS.

FEATURE PUMP: WFE-12 PUMP FLOW AT 65 FEET OF WATER IS 130 GPM. WITH SPECIFIED 4" MAIN DRAIN VELOCITY IS AT 3.8 FPS AND 3" RETURN PIPING VELOCITY IS AT 6.4 FPS



REQUIRED UNDERWATER LIGHTING FOR:
 MAIN POOL AREA:
 1698 SQ. FT. x 0.5 WATTS = 849 WATTS
LIGHTING PROVIDED:
 3 FIXTURE @ 500 WATTS = 1,500 WATTS
 TOTAL = 1,500 WATTS



ENLARGED PUMP ROOM LAYOUT
 SCALE: N.T.S.

SP1 .1 PIPING AND LIGHTING LAYOUT
 SCALE: 1/4" = 1'-0"



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CLIENT: **MATTAMY HOMES**
 PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
 LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

PROJECT NO.: **23900139**

DATE: **03/07/2023** DRAWN BY: **FAB**

POOL PIPING LAYOUT

SP1.0

CHEMICAL STORAGE NOTES

CHEMICAL STORAGE REQUIREMENTS FOR THE POOL AS FOLLOWS:
 5 SQ FT FOR FIRST 10,000 GALLONS OF POOL PLUS 1 SQ FT FOR EACH ADDITIONAL 3,000 GALLONS OF POOL UP TO 100,000 GALLONS OF STORAGE.
 5 SQ FT (FOR FIRST 10,000)
 +21.09 SQ FT (1 SQ FT PER 63,261/3000)
 =26.09 SQ FT REQUIRED
 CLUBHOUSE PROVIDES 45.0 SQ FT FOR CHEMICAL STORAGE.

POOL DECK OCCUPANCY REQUIREMENTS

TOTAL POOL DECK AREA IS 4,734 SF. 8' MINIMUM UN-OCCUPIABLE AREA AROUND THE POOL IS 2,116 SF. GROSS POOL DECK FOR OCCUPANCY EXIT REQUIREMENTS IS 4,734 - 2,116 = 2,618 SF.
 DECK IS 2,618 SF AT 15 SF PER PERSON. DECK OCCUPANT LOAD IS 175.
 COVERED AREA IS 421 SF. AT 15 SF PER PERSON. COVERED AREA OCCUPANT LOAD IS 28.
 POOL AREA IS 2,969 SF. AT 50 SF PER PERSON. POOL OCCUPANT LOAD IS 60.
 TOTAL OCCUPANT LOAD OF 2670.2 EQUAL 53' OF EXIT REQUIRED. 3 EXITS REQ'D. MIN. OF 132" SHOWN ON PLAN.
 REQ'D EXIT SEPARATION EQUALS 1/3 THE 133' DIAGONAL, OR 66'. SEE SHOWN ON PLANS.

GENERAL VENTILATION NOTES

PUMP ROOM - VERIFY VENTILATION OF THIS ROOM IS EITHER NATURAL CROSS DRAFT OR CONTINUOUS FORCED VENTILATION WHICH DIRECTS VENTED AIR AWAY FROM THE POOL AREA. IF FORCED VENTILATION EQUIPMENT IS USED, IT SHALL RUN CONTINUOUS AND NOT BE CONNECTED TO THE PUMP ROOM LIGHT SWITCH.
CHEMICAL ROOM - VERIFY VENTILATION OF THIS ROOM IS EITHER NATURAL CROSS DRAFT OR CONTINUOUS FORCED VENTILATION EQUIPMENT IS USED, IT SHALL RUN CONTINUOUS AND NOT BE CONNECTED TO THE CHEMICAL ROOM LIGHT SWITCH.

BATH HOUSE DATA

TOTAL BATHER LOAD = 198 (50%-50% SPLIT) - OUTDOOR POOL = 208 (15 = 198)
BATHHOUSE REQUIREMENTS:
 99 MEN, MIN FIXTURES REQUIRED ARE:
 -ONE URINAL
 -ONE WATER CLOSET
 99 WOMEN, MIN FIXTURES ARE:
 -TWO LAVATORIES
 -TWO WATER CLOSETS.
 2 SHOWERS ARE REQUIRED.

MAIN POOL DATA

POOL DIMENSIONS:	31'-2"x75'-1" w/ 20' RADIUS SEMI-CIRCLE
POOL DEPTHS:	9'-5"-0"
POOL VOLUME:	73,261 GALLONS
SURFACE AREA:	2,968 SF
PERIMETER:	235 LF
COPING:	CAST-IN-PLACE W/ BULLNOSE
MIN. FLOW RATE:	204 GPM
DESIGN FLOW RATE:	220 GPM
CONSTRUCTION:	GUNITE
FINISH:	NON-SLIP PLASTER
BATHER LOAD:	198 BATHERS
MAIN DRAINS:	(2), 4" MAIN DRAIN LINE
INLETS:	11 REQ'D 4" MAIN RETURN LINE
SKIMMERS:	8, 4" MAIN SKIMMER LINE
FILTER, TYPE:	HIGH RATE SAND
FILTER SIZE, PROV:	(3) @4.91 SF, 14.73 SF TOTAL
FILTER SIZE, REQ'D:	13.57 SF TOTAL
MEDIA CIRC. RATE:	15 GPM/SF
BACKWASH RATE:	15 GPM/SF
TURNOVER RATE:	6 HOURS.
BACKWASH TO:	SANITARY SEWER
FRESHWATER SOURCE:	IN-LINE, MANUAL FILL

PROVIDE SIGN STATING "WARNING NO LIFEGUARD ON DUTY" SEE POOL SIGN REQ'TS, SIGN "A"

PROVIDE SIGN STATING THAT NO DIVING IS ALLOWED IN POOL AREA. SEE POOL SIGN REQ'TS, SIGN "B"

PROVIDE SIGN FOR SHOWERING REQ'TS. SEE POOL SIGN REQ'TS, SIGN "C"

CONCRETE DECK NOTES

POOL DECK AREA IS 3,036 SF AND INCLUDES ONLY THE STIPPLED AREA ON THE PLAN.
 DECK ELEVATIONS ARE RELATIVE TO THE TOP OF DECK AT THE POOL EDGE. COORDINATION WITH THE SITE/CIVIL DRAWING MAY REQUIRE ADJUSTMENT OF THE ELEVATIONS.
 CONCRETE DECK TO HAVE LIGHT BROOM FINISH.
 KEEP CONCRETE SLABS DAMP FOR SEVEN (7) DAYS AFTER PLACEMENT.
 CONTROL JOINTS TO BE LET INTO CONCRETE AT A DEPTH OF 1/3 THE THICKNESS OF THE CONCRETE SLAB.

MAIN POOL EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	PRODUCT
M1	5 HP, SELF-PRIMING PUMP W/ MATCHING STRAINER, 220 GPM @ 65F. OF HEAD - PROVIDE A SPARE BASKET FOR STRAINER.	PENTAIR - W0500
M2	30" DIA., HIGH RATE SAND FILTER WITH 4.91 S.F. MEDIA	PENTAIR - TRITON II TR100
M3	FLOW RATE INDICATOR	BLUE-WHITE F/D/U-300
M4	EROSION CHLORINATOR	PENTAIR HC 3315
M5	MAIN DRAIN - 14"x14" SUMP AND COVER/GRATE AND 1/2" HYDROSTATIC RELIEF VALVE.	AQUASTAR 914xxx [SUMP P/N 9-4 SB]
M6	IN-GROUND SKIMMER	PENTAIR U3
M7	IN-WALL INLET W/ DIRECTIONAL FITTINGS	PENTAIR-542002
M8	MULTIPOINT VALVE	PENTAIR 261055
M9	IN-WALL VACUUM FITTING, W/ PLUG	HAYWARD W400AWHP
M10	5' MUSHROOM FOUNTAIN	NATURAL STRUCTURES 1800-18
M11	POOL HANDRAIL, 4' LONG	SRSMITH DMS101-MG
M12	POOL LADDER, 3 RUNG	SRSMITH-LF24-3B-MG
M13	500 WATT WHITE LIGHT WITH NICHE	PENTAIR-78456300
M14	IN-WALL CUP ANCHOR	PENTAIR-542044
M15	FLOOR DRAIN, CAST BODY, PVC COVER BY OTHERS - MAX. 50 GPM FLOW	SELECTED BY OWNER
M16	BACKSTROKE FLAG ANCHOR	SR SMITH MULTI-LIFT
M17	HANDICAPPED LIFT	SR SMITH MULTI-LIFT
M18	3HP FOUNTAIN PUMP w/ MATCHING STRAINER, 130 GPM @ 65 F. OF HEAD - PROVIDE A SPARE BASKET FOR STRAINER	PENTAIR-WFE-12
M19	12"x12" FOUNTAIN SUMP AND COVER	ASA FPK 50-812-4 AQUASTAR WAVE12
M20	POOL FLOOR INLET	PENTAIR 08417
M21	POOL HANDRAIL, 4' LONG, TWO BEND	SRSMITH 2HR-4-MG
M22	AUTOMATIC WATER LEVEL CONTROLLER	PENTAIR T40-FW
M23	POOL CONTROL PANEL	PENTAIR EASYTOUCH8

POOL CONTRACTOR SHALL VERIFY THAT POOL EQUIPMENT SCHEDULE AND CUT SHEETS MATCH BEFORE ORDERING ANY ITEMS OR EQUIPMENT

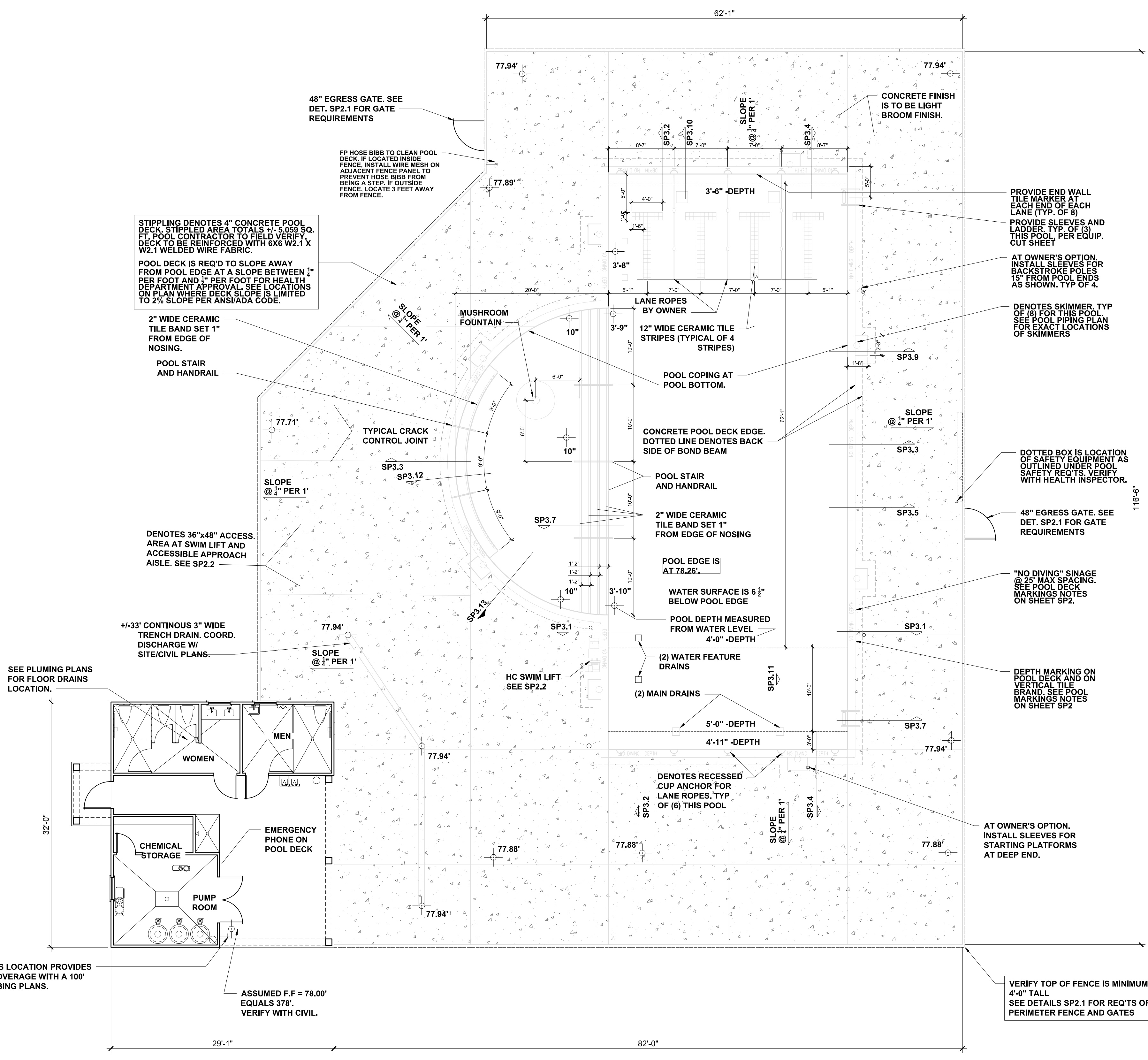


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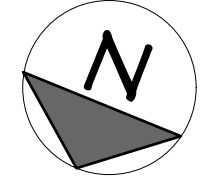
CLIENT: **MATTAMY HOMES**
 PROJECT: **PROVIDENCE CREEK AMENITY CENTER & POOL**
 LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

PROJECT NO.: **23900139**
 DATE: **03/07/2023** DRAWN BY: **FAB**

POOL LAYOUT
SP1.1



SWIMMING POOL LAYOUT
 SCALE: 1/4" = 1'-0"





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MATTAMY HOMES
 PROVIDENCE CREEK AMENITY CENTER & POOL
 196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526

CLIENT: MATTAMY HOMES
 PROJECT: PROVIDENCE CREEK AMENITY CENTER & POOL
 LOCATION: 196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526

PROJECT NO.: 23900139
 DATE: 03/07/2023
 DRAWN BY: FAB

SECTIONS & DETAILS
SP.2

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

POOL SAFETY REQUIREMENTS

PROVIDE SAFETY PROVISIONS PER SECTION .2530, THE MINIMUM BEING:

OUTDOOR POOL REQUIREMENTS:

- (2) 12' LONG, MIN., METAL POLE AND BODY HOOK SECURELY ATTACHED. THE POLE SHALL BE NON-TELESCOPING, NON-ADJUSTABLE & NON-COLLAPSIBLE.
- (2) U.S. COAST GUARD APPROVED RING BUOYS WITH 50'-0" OF 1" DIAMETER THROWING ROPE.

EMERGENCY TELEPHONE SERVICE:

- TELEPHONE CAPABLE OF DIRECTLY DIALING 911 OR OTHER EMERGENCY NOTIFICATION SYSTEM SHALL BE PROVIDED.
- THE TELEPHONE SHALL BE PERMANENTLY AFFIXED TO A LOCATION INSIDE THE POOL ENCLOSURE OR OUTSIDE THE ENCLOSURE WITHIN 75' OF THE BATHER ENTRANCE.
- THE TELEPHONE SHALL BE VISIBLE FROM WITH THE POOL ENCLOSURE OR A VISIBLE SIGN SHALL BE POSTED INDICATING THE LOCATION OF THE EMERGENCY PHONE.
- AT THE TELEPHONE - PROVIDE A SIGN WITH LEGIBLE LETTERS PROVIDING THE FOLLOWING INFORMATION:
 - DIALING INSTRUCTIONS
 - ADDRESS OF THE POOL LOCATION
 - TELEPHONE NUMBER OF THE POOL LOCATION

SEE POOL HOUSE PLANS BY OTHERS FOR EXACT LOCATION OF THE TELEPHONE SERVICE.

POOL SIGNAGE REQUIREMENTS

POOL SIGNAGE:

SIGN "A" - 4" TALL LETTERS

WARNING - NO LIFEGUARD ON DUTY

THIS SIGN IS TO BE POSTED IN THE MAIN POOL AREA. A MIN. OF (1) THIS PROJECT

SIGN "B" - 1" TALL LETTERS

POOL SAFETY RULES

- CHILDREN SHOULD NOT USE THE SWIMMING POOL WITHOUT ADULT SUPERVISION.
- ADULTS SHOULD NOT SWIM ALONE.
- PETS ARE PROHIBITED IN THE POOL AREA.
- GLASS CONTAINERS ARE PROHIBITED IN THE POOL AREA.
- NO DIVING IS ALLOWED IN POOL AREA.

SIGN "C" - PROVIDE A SIGN VISIBLE UPON ENTERING THE POOL ENCLOSURE DIRECTING POOL USERS TO SHOWER BEFORE ENTERING THE POOL.

SIGN "D" - PROVIDE A SIGN STATING "POOL CLOSED" FOR EVERY POOL ENTRANCE. VERIFY WITH FINAL POOL ENCLOSURE DESIGN FOR FINAL NUMBER OF ENTRANCES.

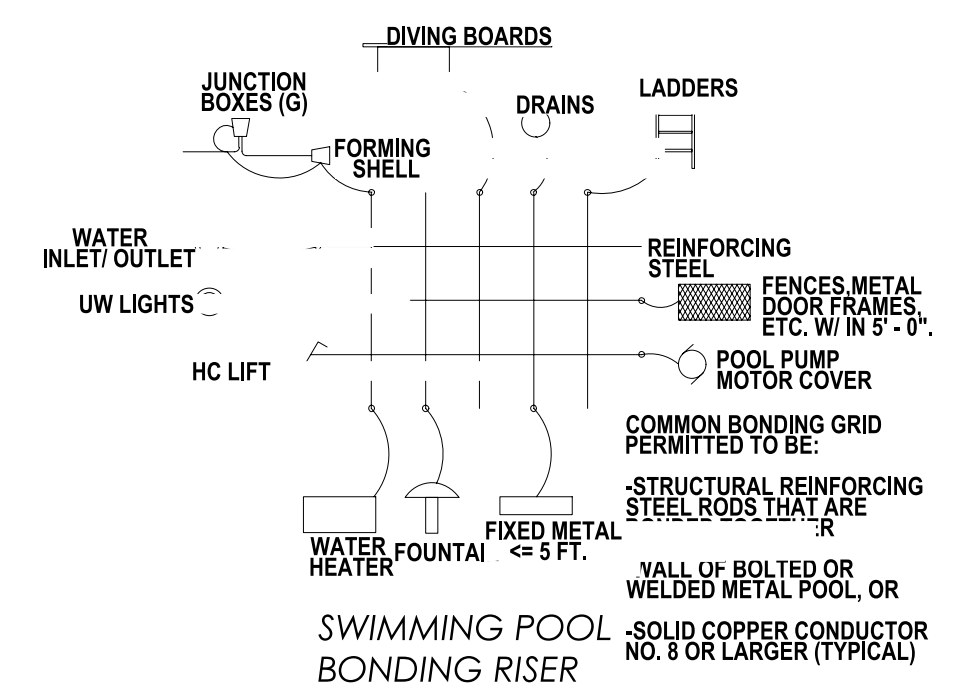
POOL DECK MARKINGS

DEPTH MARKINGS: IN LOCATIONS AS SHOWN ON THE DRAWINGS AND ADHERING TO THE FOLLOWING:

- LOCATED ON TOP OF POOL DECK AND AT OR ABOVE THE WATER SURFACE ON THE VERTICAL WALL.
- SHALL BE IN ARABIC NUMERALS AT LEAST 4" HIGH LETTER COLOR TO CONTRAST WITH BACKGROUND.
- MARKINGS IN POOL DECK SHALL PROVIDE A SLIP RESISTANT WALKING SURFACE.
- NOT TO EXCEED 25'-0" IN SPACING ALONG THE PERIMETER OF THE POOL.

"NO DIVING" MARKINGS: IN LOCATIONS AS SHOWN ON THE DRAWINGS AND ADHERING TO THE FOLLOWING:

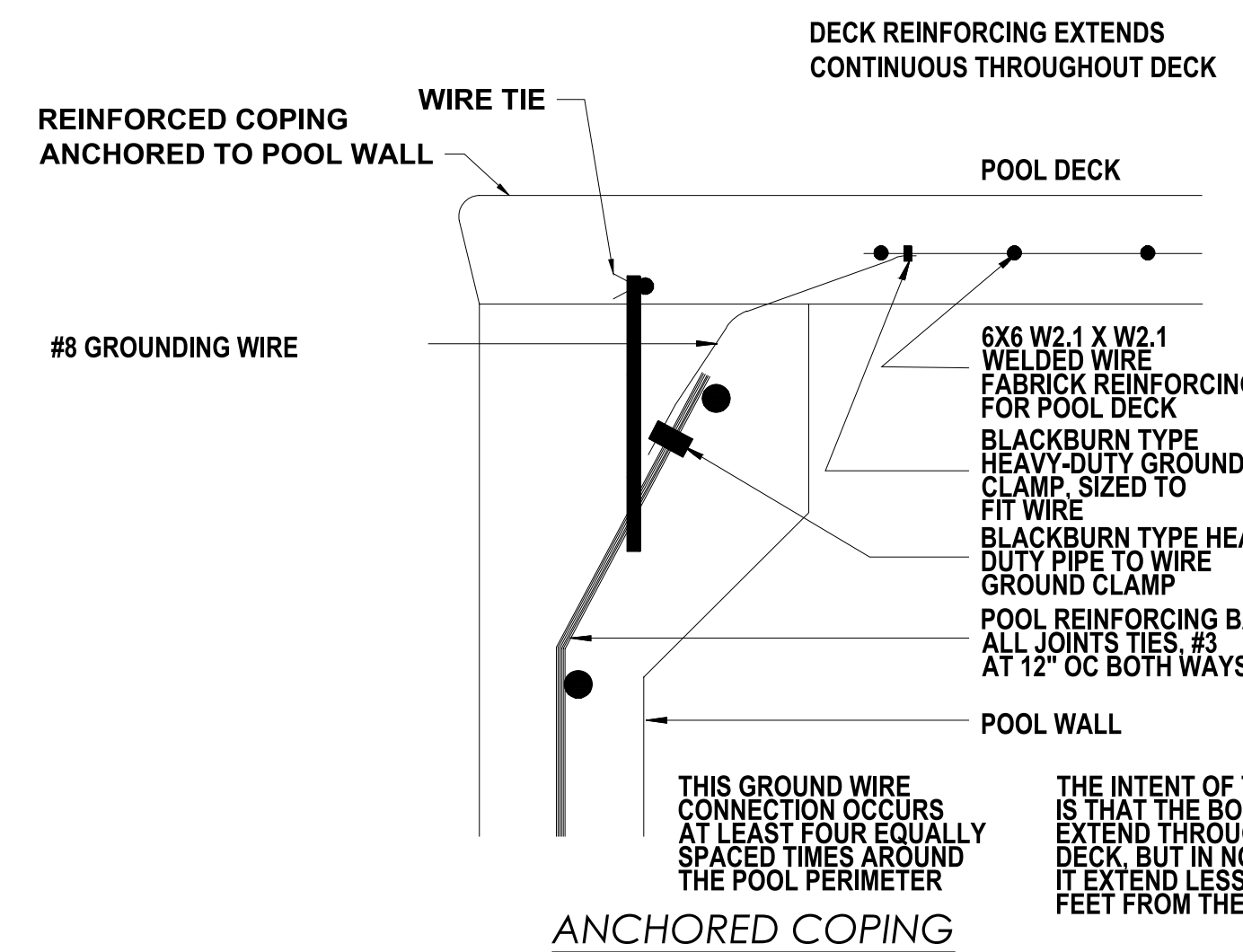
- NOT TO EXCEED 25'-0" IN SPACING.
- 2.A. DENOTED IN ONE OF THE FOLLOWING MANNERS:
 - CONSISTING OF THE WORDS "NO DIVING" IN LETTERS AT LEAST 4" HIGH AND OF A COLOR CONTRASTING WITH THE BACKGROUND.
 - AT LEAST A 6"x6" IN SIZE INTERNATIONAL SYMBOL FOR NO DIVING IN RED AND BLACK ON A WHITE BACKGROUND.
- MARKINGS IN POOL DECK SHALL PROVIDE A SLIP RESISTANT WALKING SURFACE.



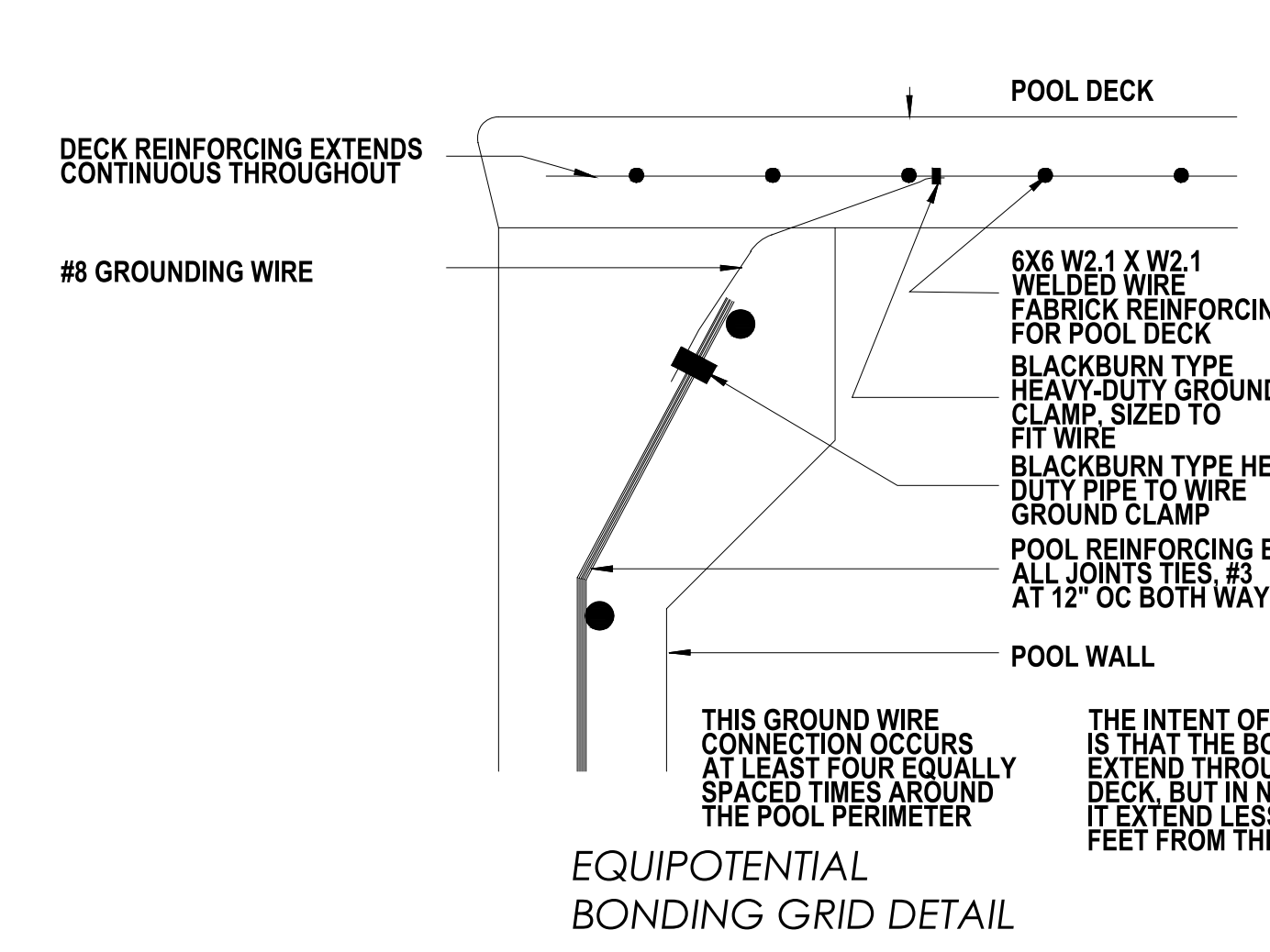
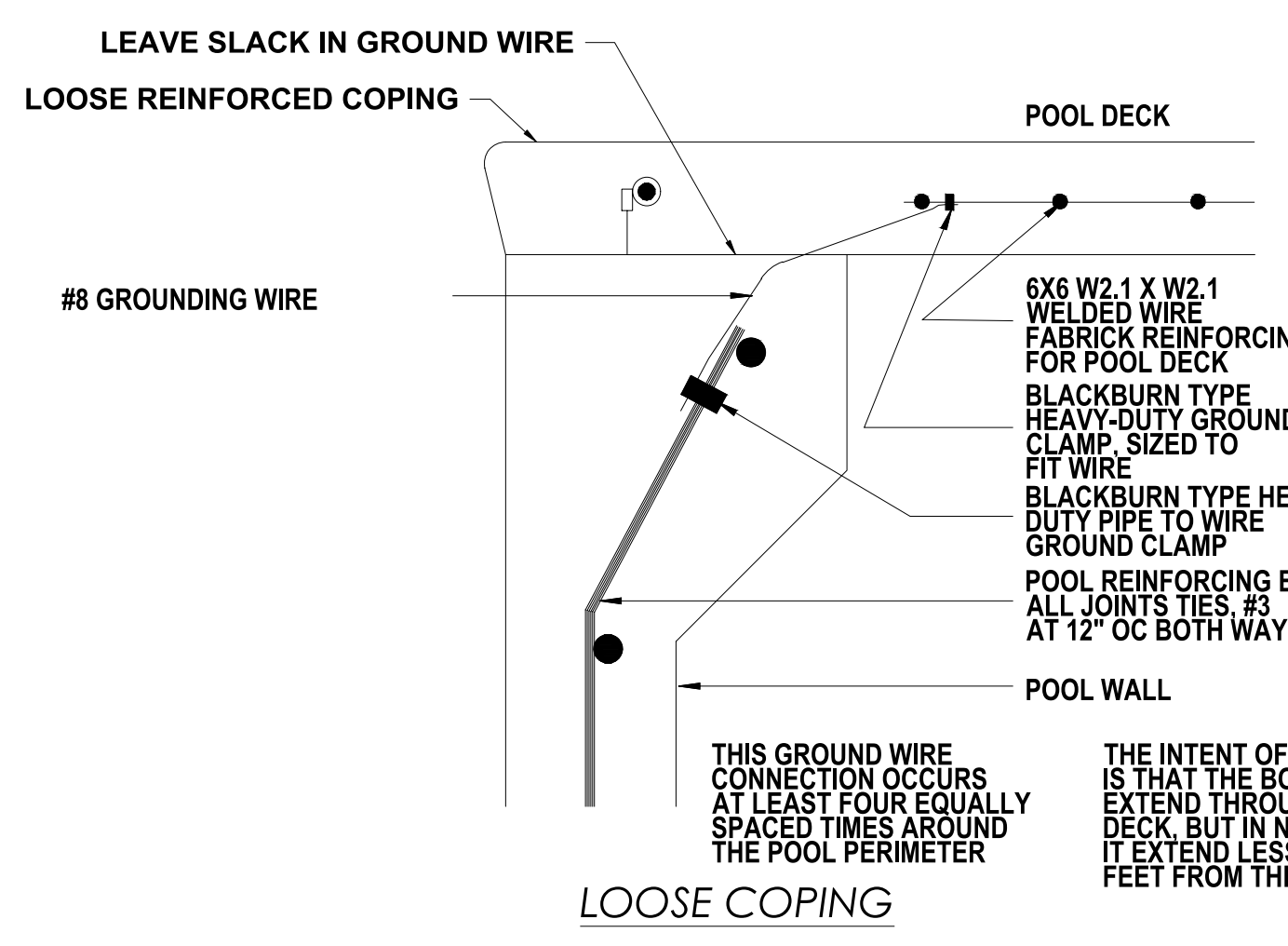
SWIMMING POOL BONDING RISER
 NOT TO SCALE

POOL REINFORCING SCHEDULE

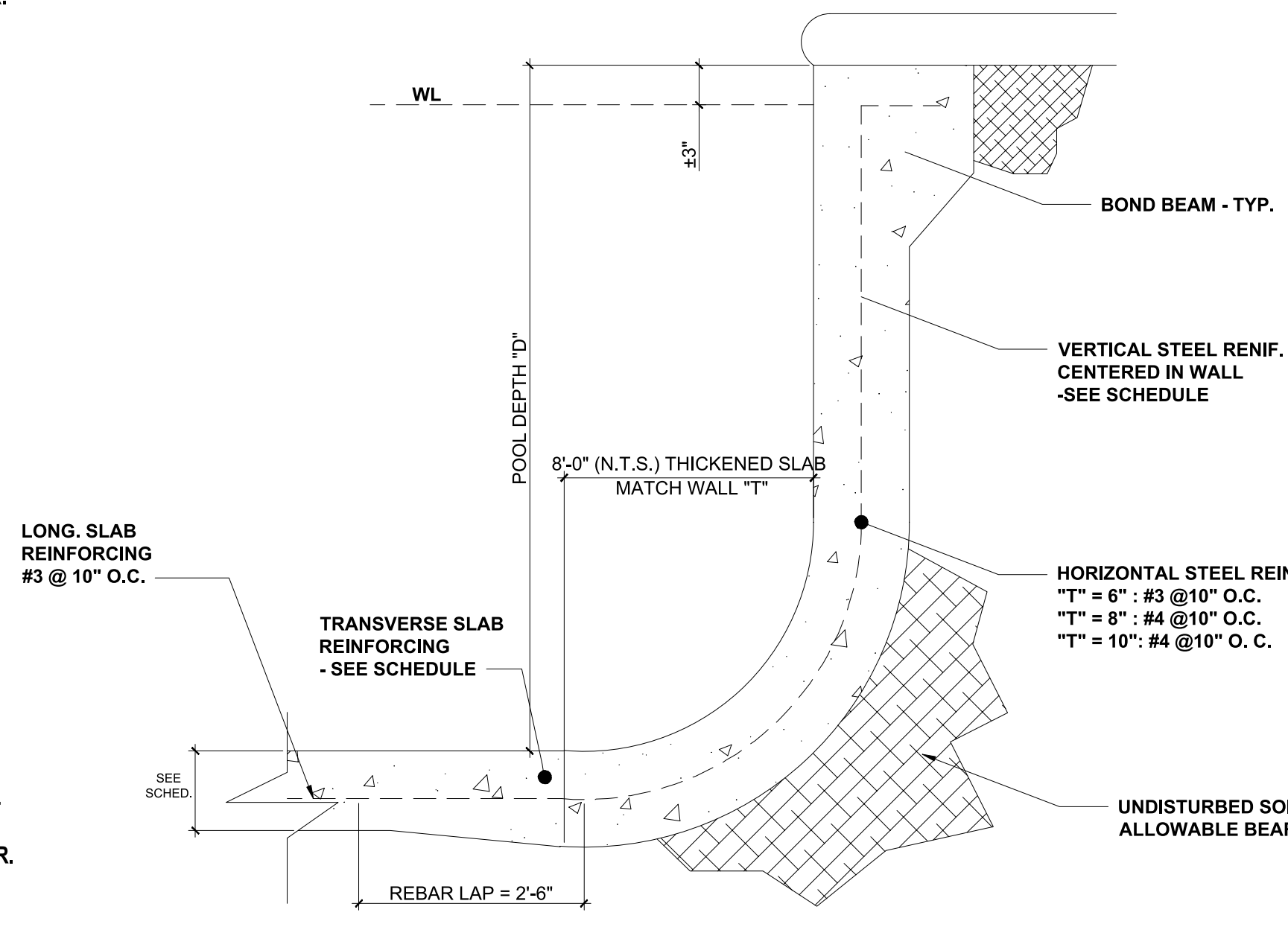
DEPTH D"	≤ 4'-0"	≤ 6'-0"	≤ 7'-6"	≤ 9'-0"	≤ 10'-0"
THICKNESS "T"	6"	8"	10"	10"	10"
VERTICAL STEEL	#3 @ 10" O.C.	#4 @ 10" O.C.	#5 @ 10" O.C.	#6 @ 10" O.C.	#7 @ 10" O.C.
SLAB	#3 @ 10" O.C.	#3 @ 10" O.C.	#4 @ 10" O.C.	#4 @ 10" O.C.	#4 @ 10" O.C.



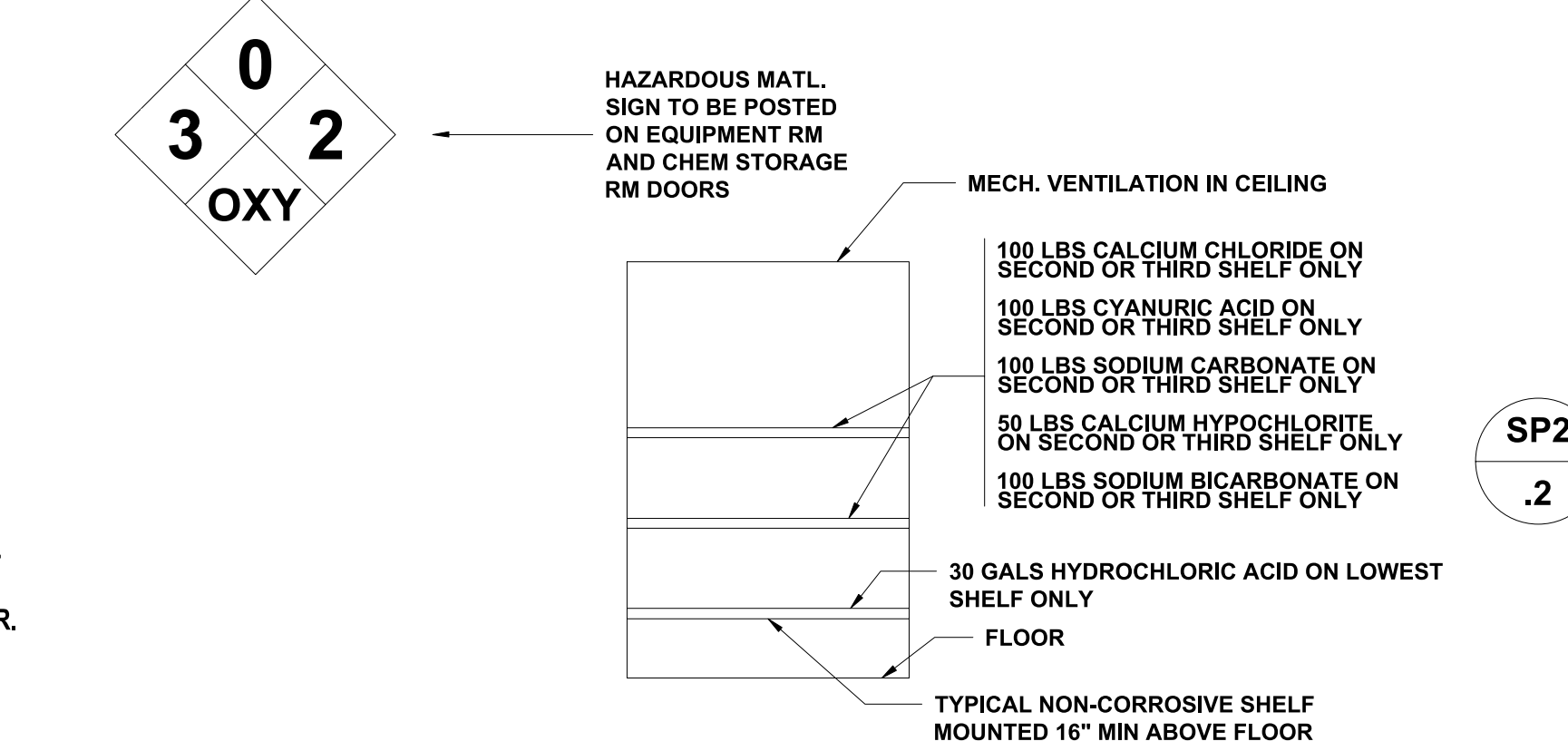
EQUIPOTENTIAL BONDING GRID DETAIL
 NOT TO SCALE



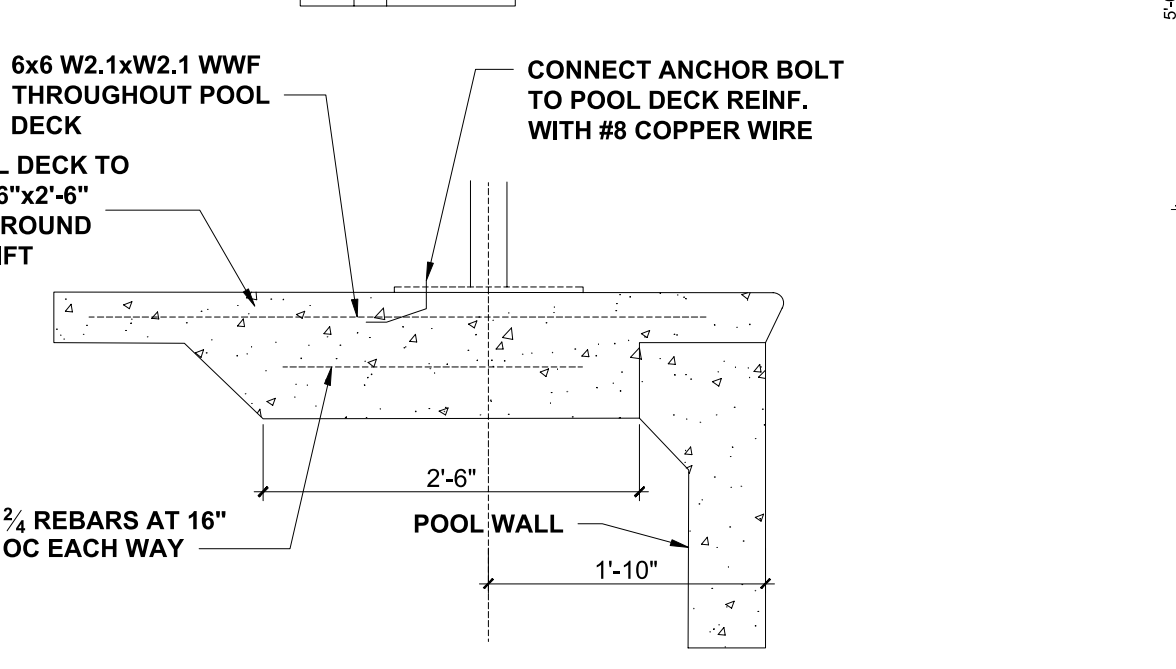
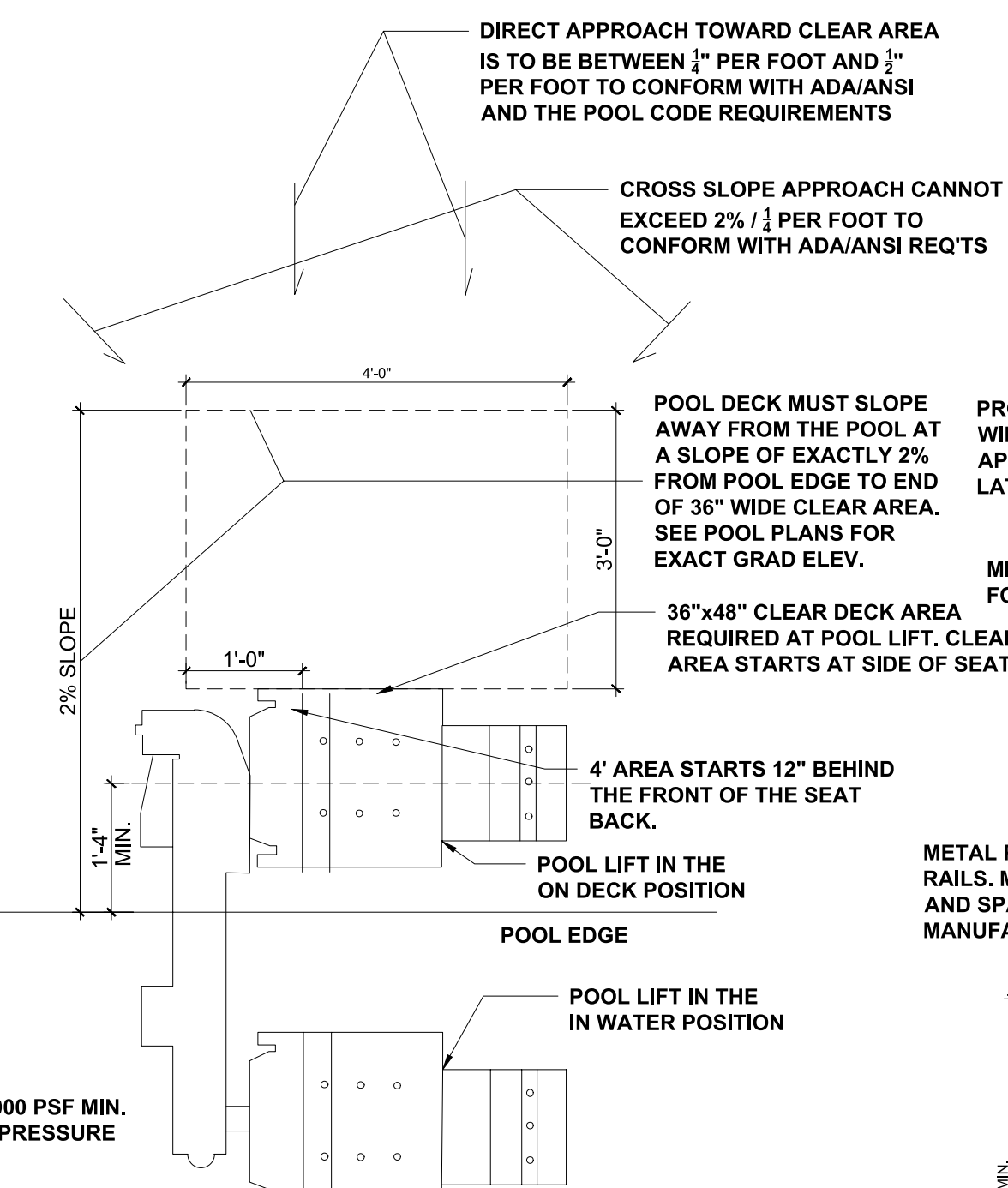
EQUIPOTENTIAL BONDING GRID DETAIL
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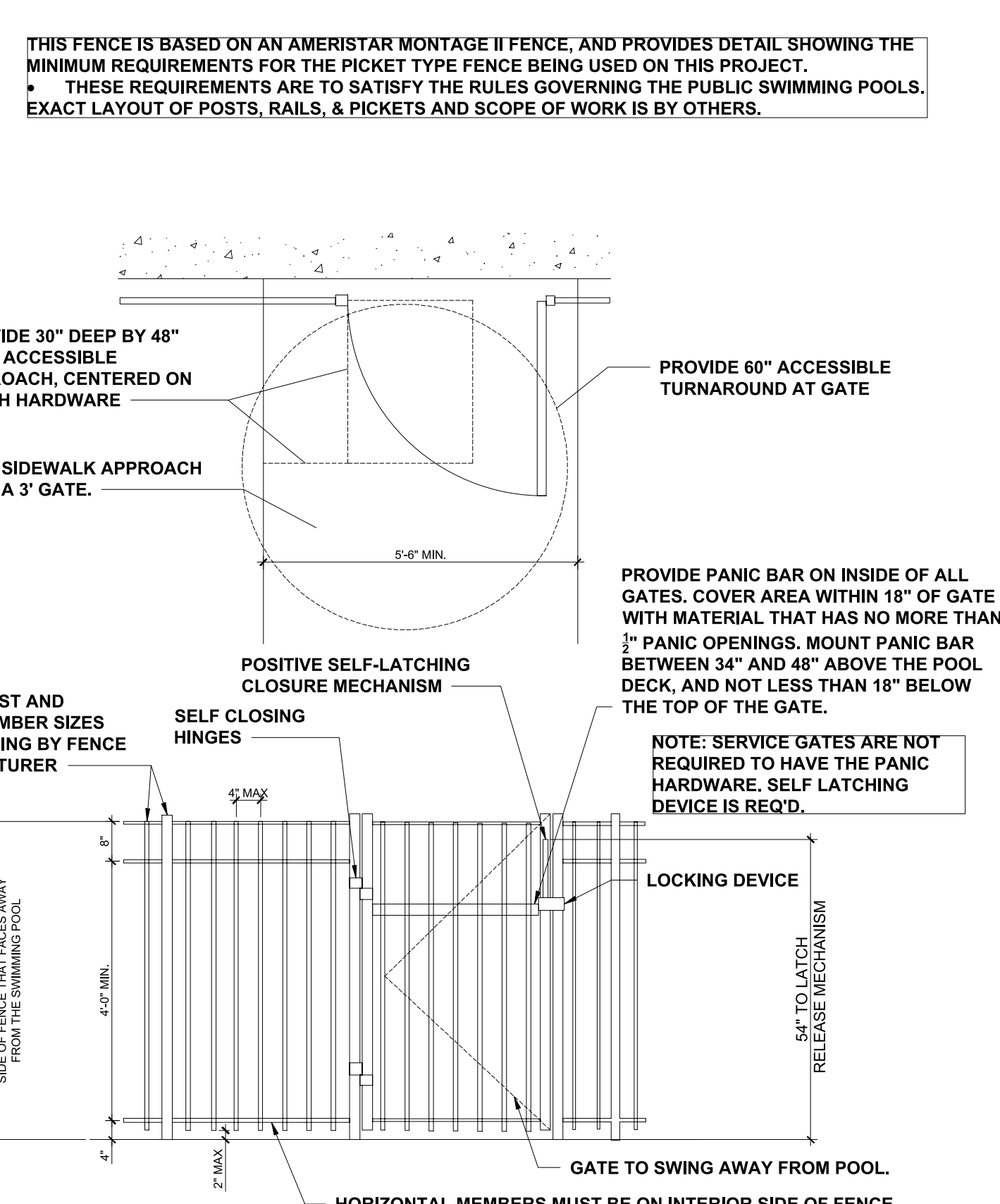
STRUCTURAL POOL SECTION
 NOT TO SCALE



CHEMICAL STORAGE ROOM ELEVATION
 SCALE: NTS



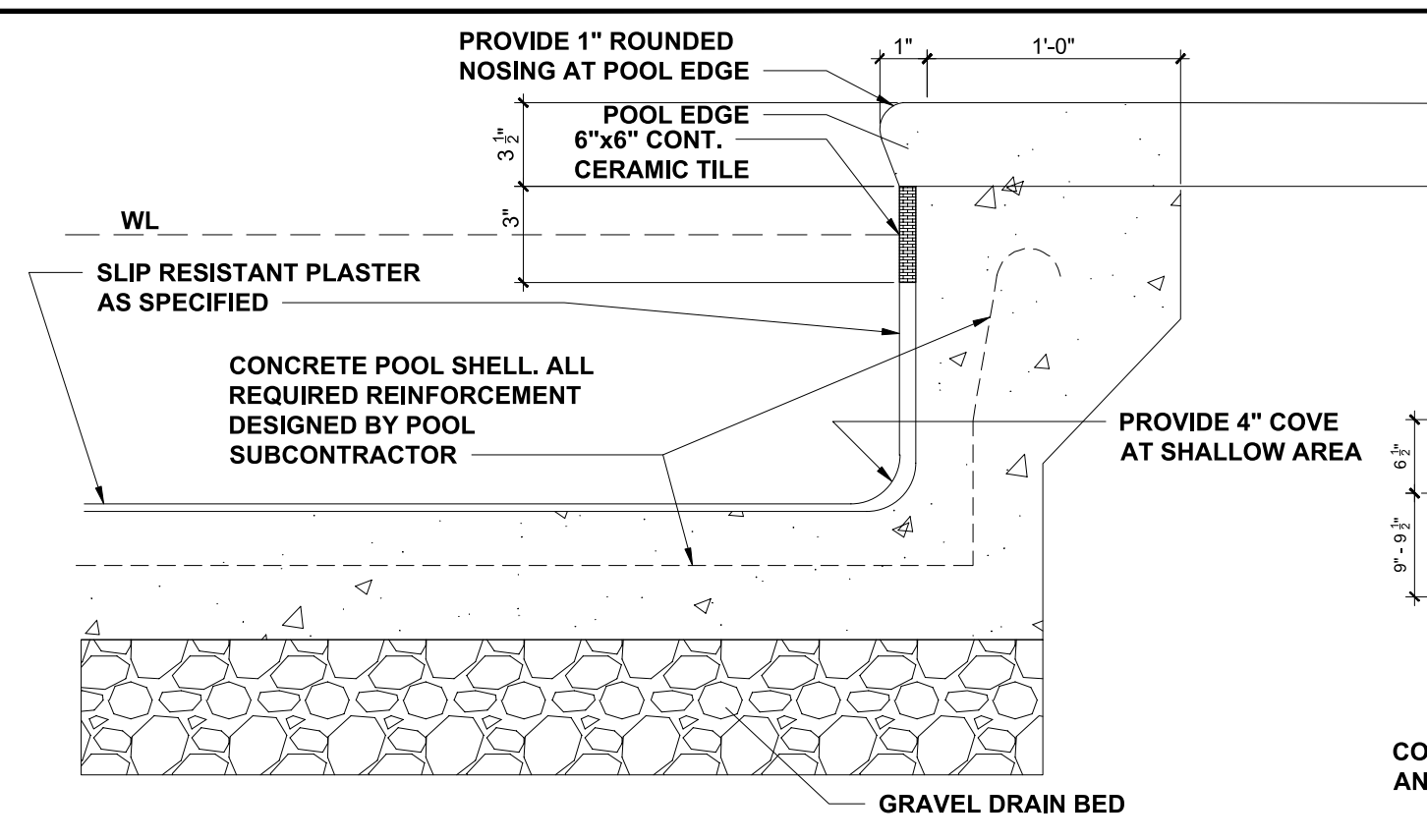
SWIM LIFT INST. DETAIL
 SCALE: NTS



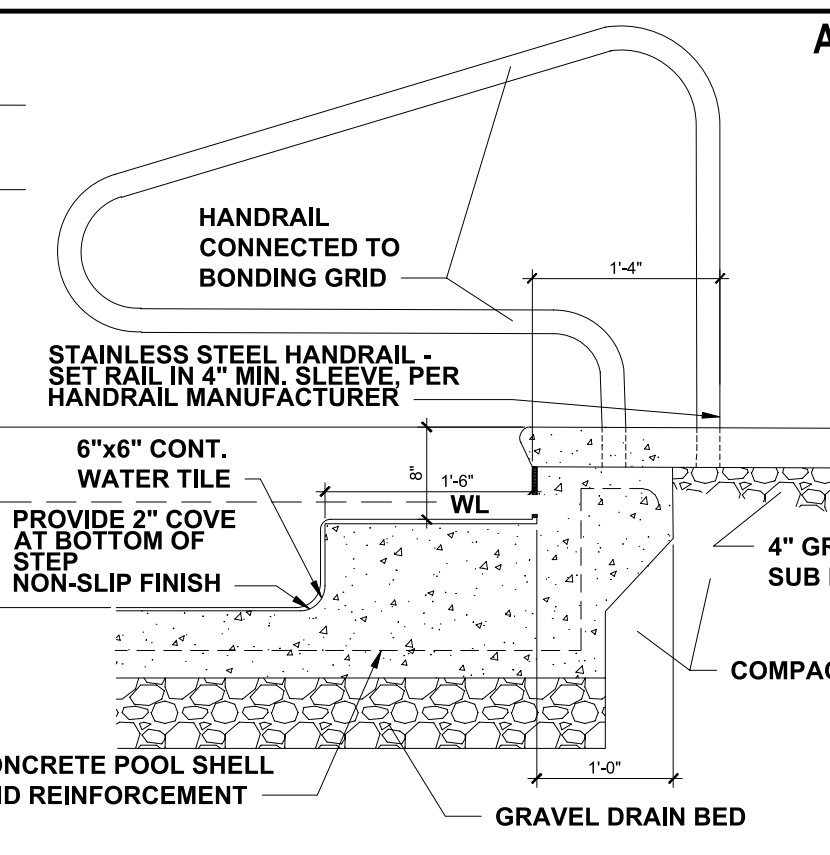
LOCKING DEVICE REQUIREMENTS:

- IF THE HEIGHT TO THE RELEASE MECHANISM OF THE SELF-LATCHING DEVICE IS LESS THAN 54" FROM THE BOTTOM OF THE GATE, THEN THE RELEASE MECHANISM SHALL REQUIRE THE USE OF A KEY, COMBINATION, OR CARD READER TO OPEN THE GATE.
- AN ALTERNATE LOCATION FOR THE RELEASE MECHANISM IS ON THE POOL SIDE OF THE GATE AT LEAST 3" BELOW THE TOP OF THE GATE, AND THE GATE AND FENCE SHALL HAVE NO OPENINGS GREATER THAN .5" WITHIN 18" OF THE RELEASE MECHANISM.

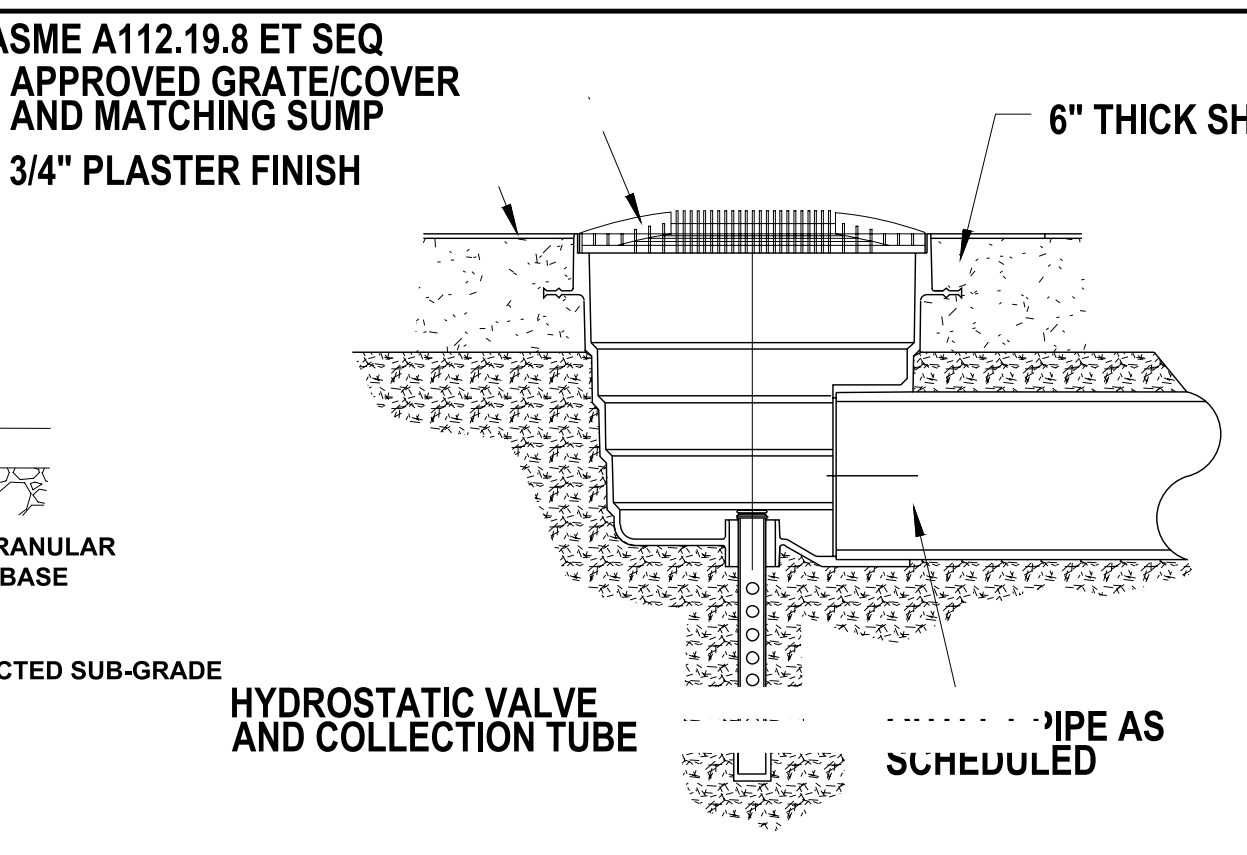
GATE AND FENCE DETAIL
 SCALE: NTS



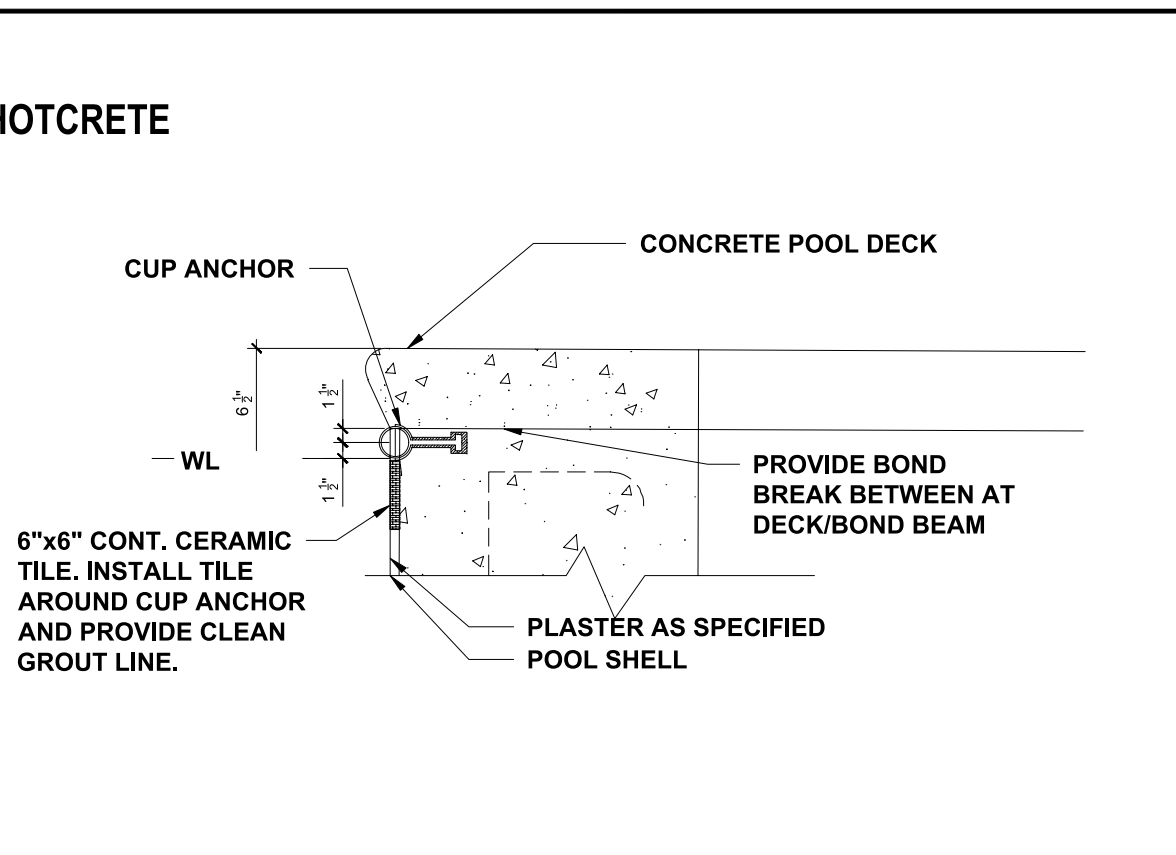
SP3 WALL SECTION
.13 SHALLOW WATER SCALE: NTS



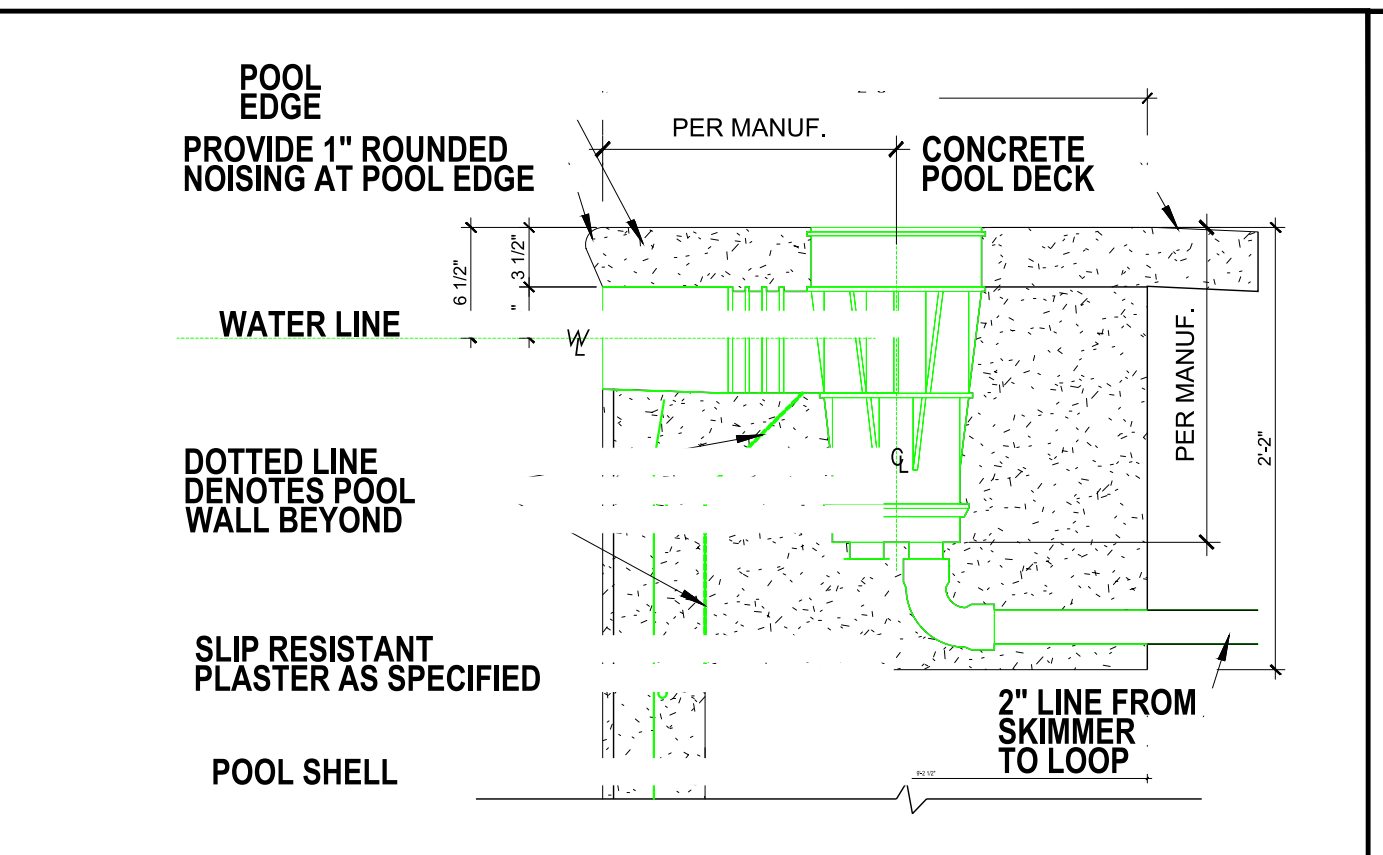
SP3 SHALLOW POOL WALL SECTION
.12 SCALE: NTS



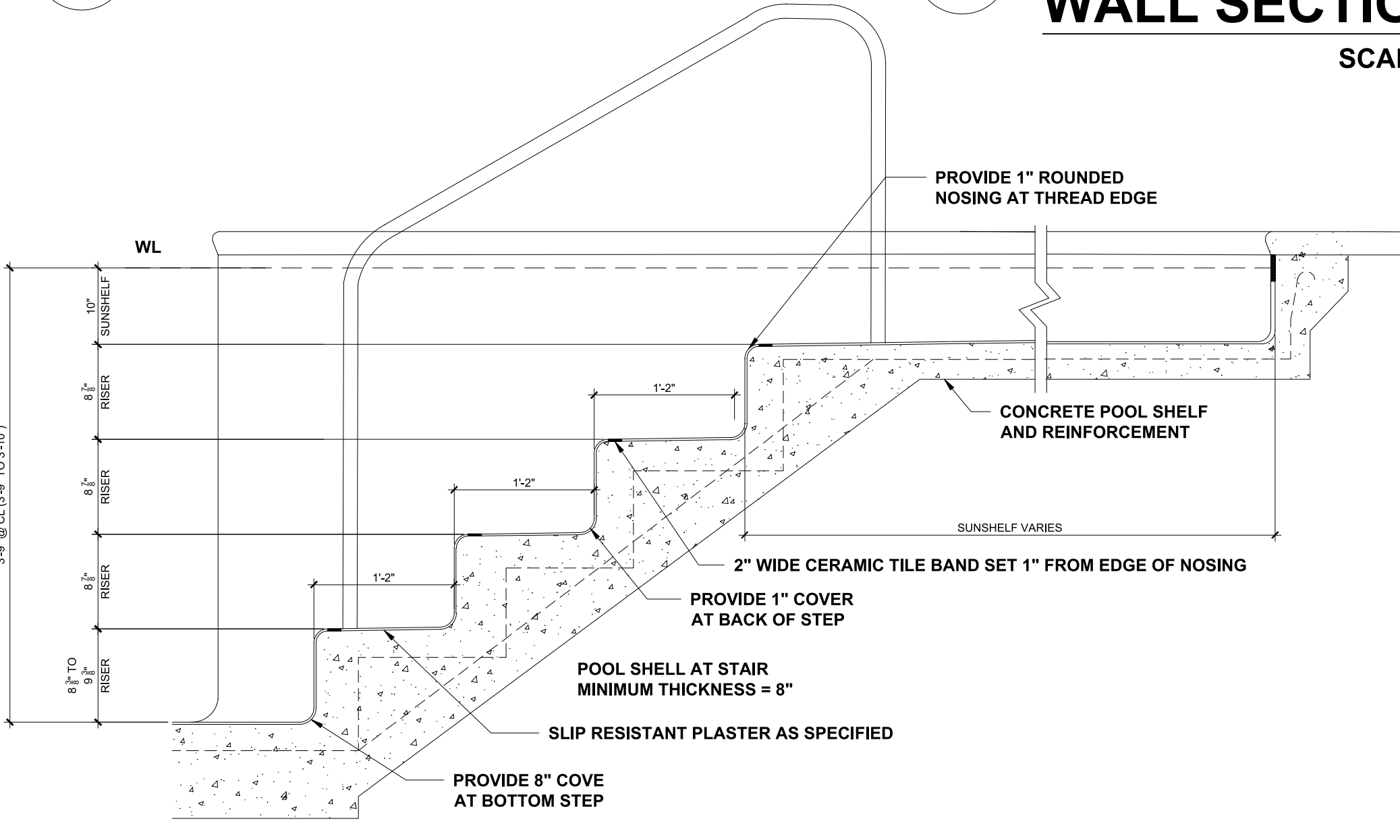
SP3 MAIN DRAIN DETAIL
.11 SCALE: NTS CONCRETE POOL DECK



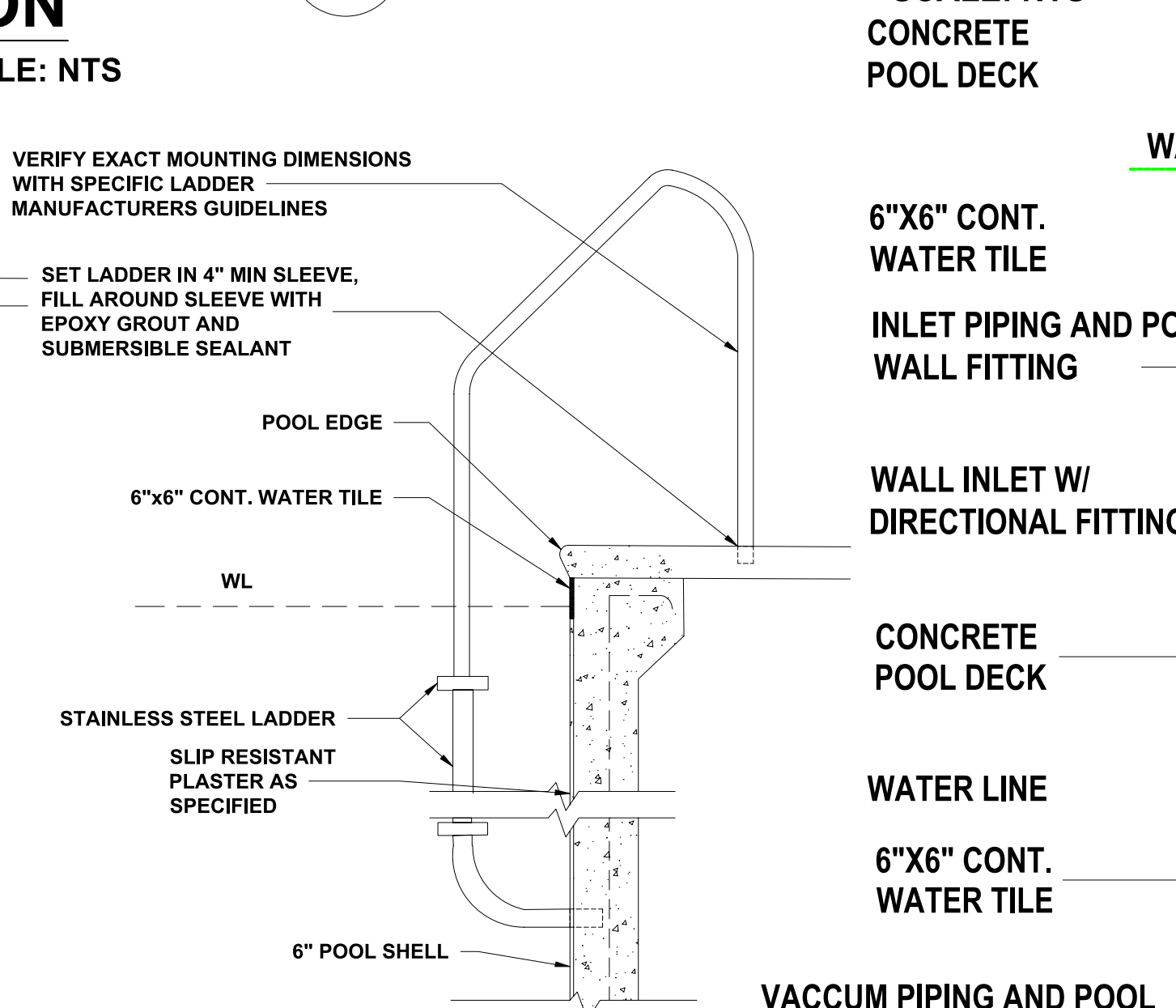
SP3 CUP ANCHOR DETAIL
.10 SCALE: NTS



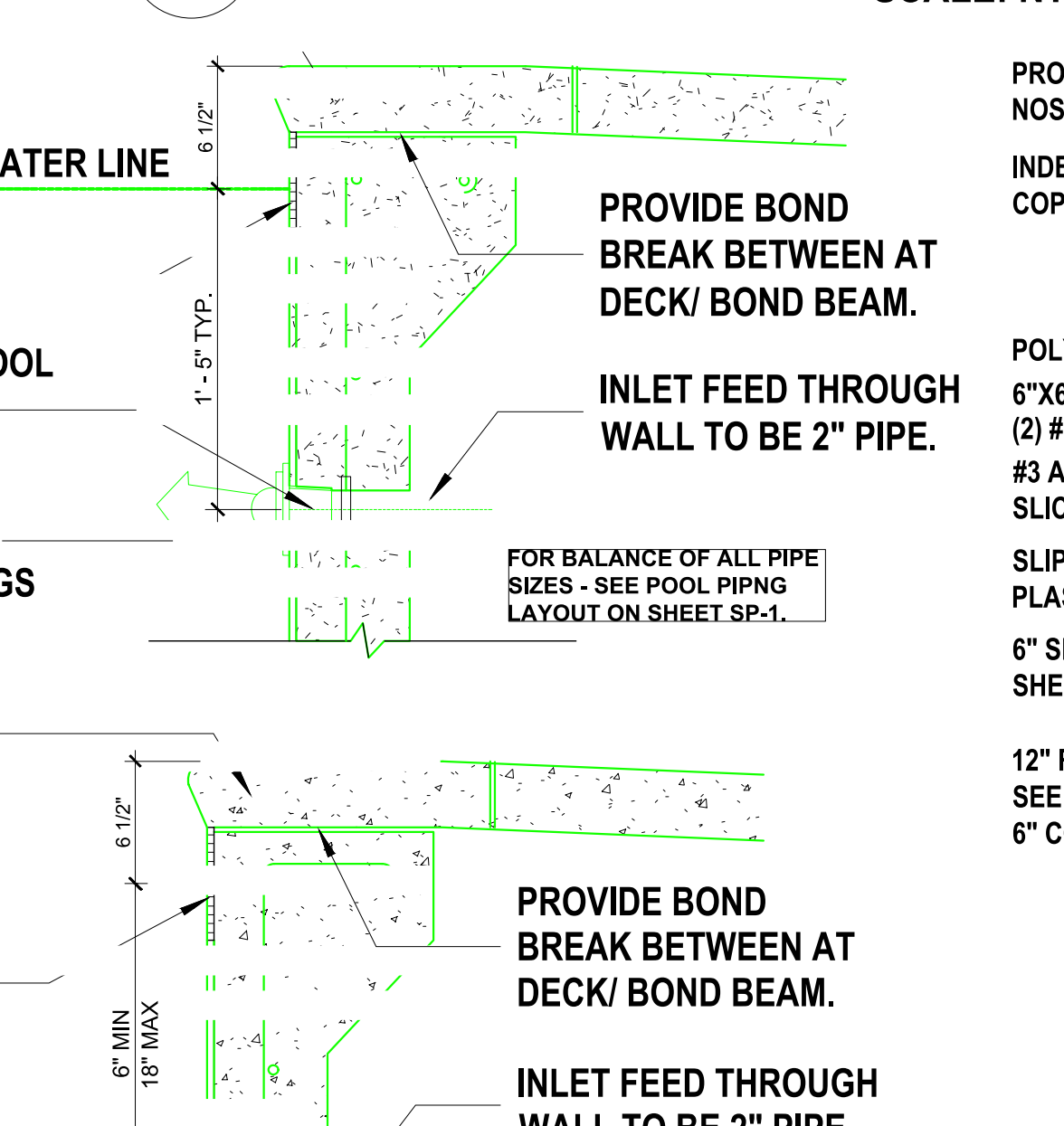
SP3 DETAIL - POOL SKIMMER
.9 SCALE: NTS



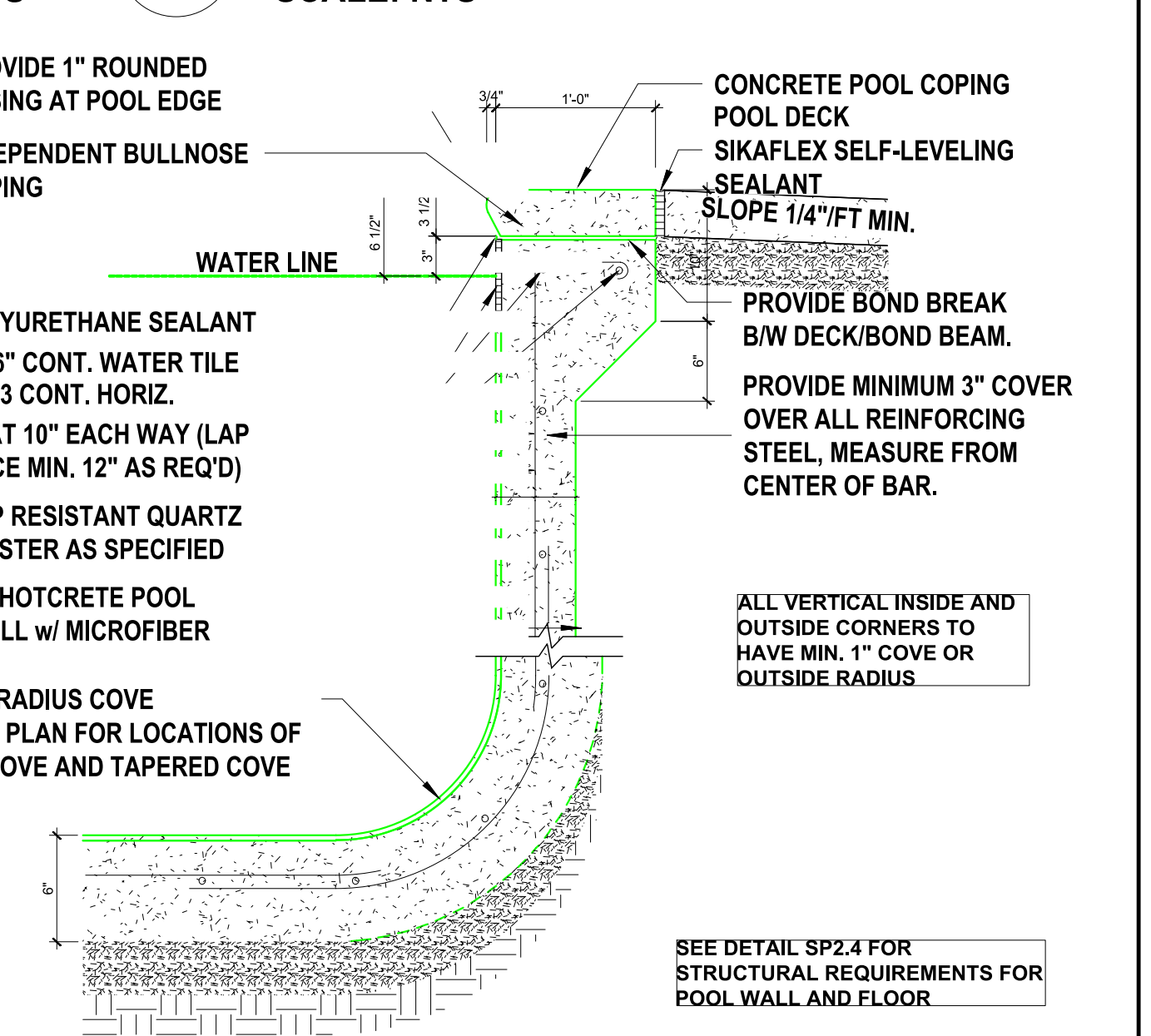
SP3 POOL STAIR DETAIL
.8 SCALE: NTS



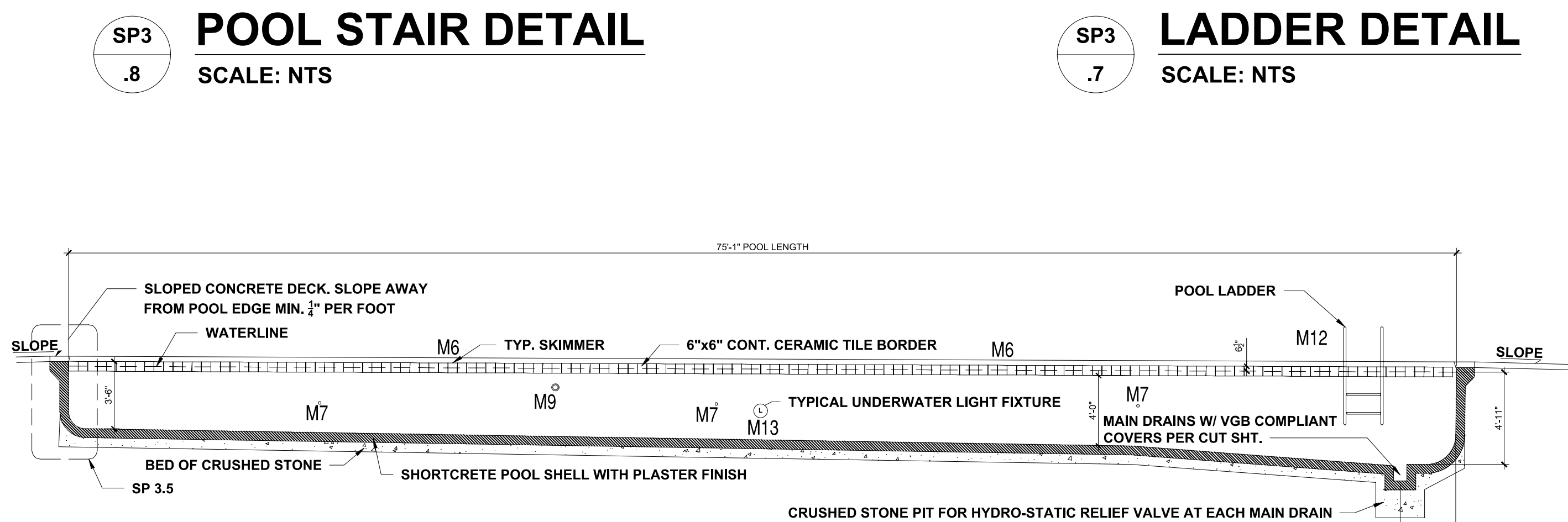
SP3 LADDER DETAIL
.7 SCALE: NTS



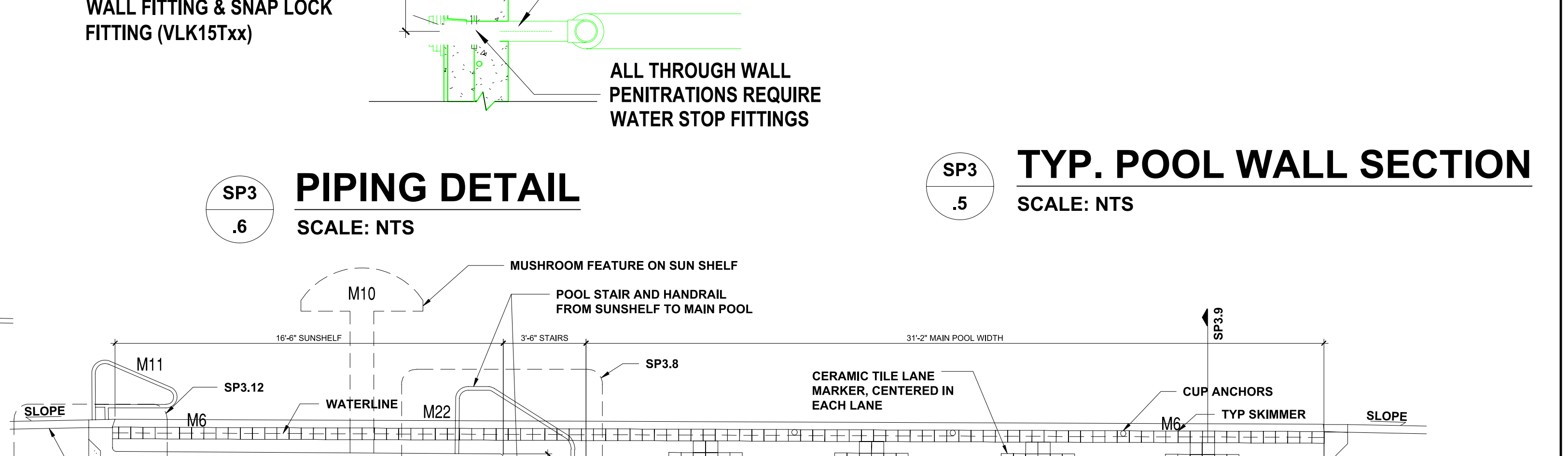
SP3 PIPING DETAIL
.6 SCALE: NTS



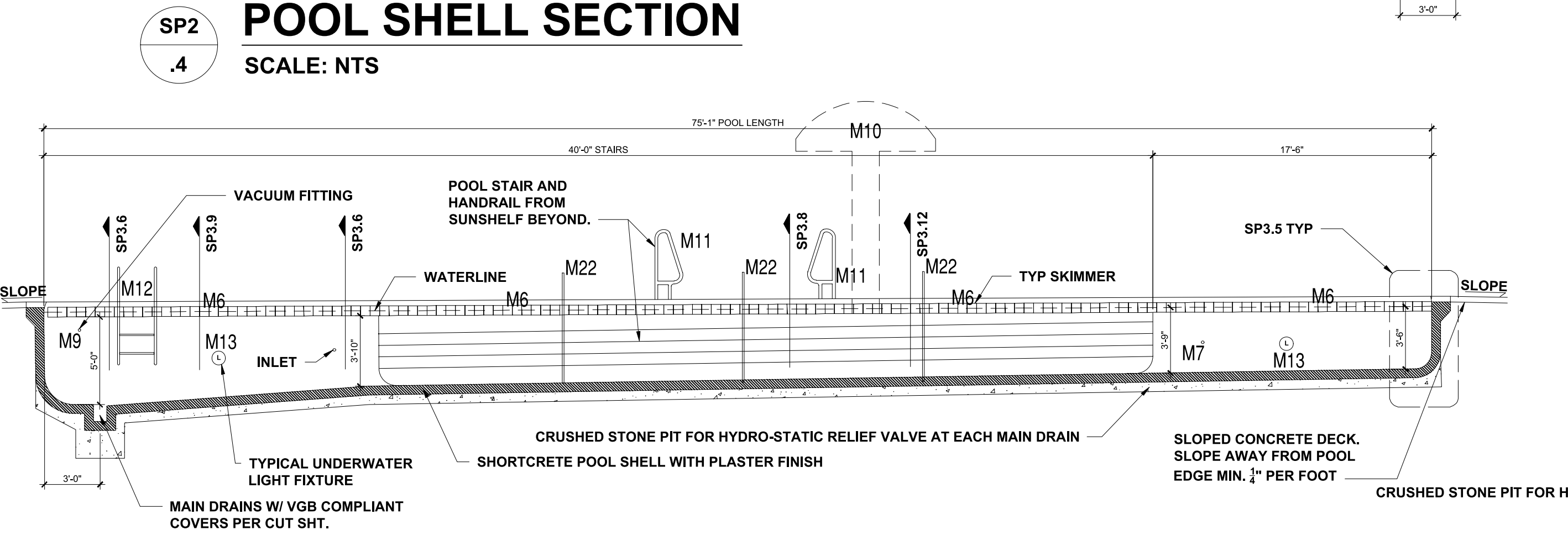
SP3 TYP. POOL WALL SECTION
.5 SCALE: NTS



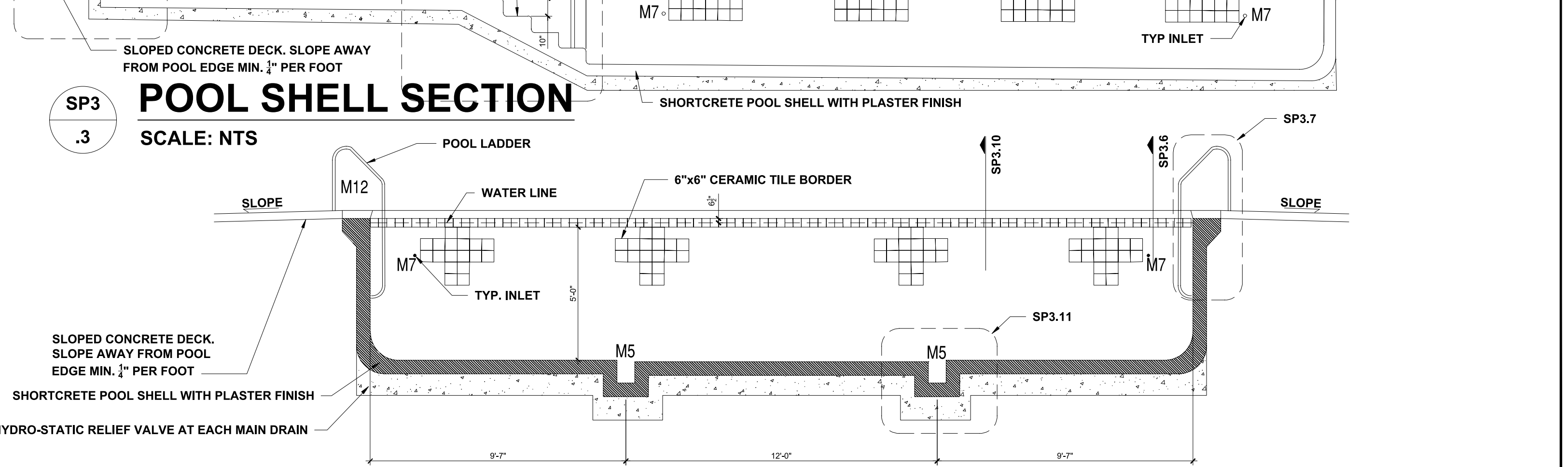
SP2 POOL SHELL SECTION
.4 SCALE: NTS



SP3 POOL SHELL SECTION
.3 SCALE: NTS



SP3 POOL SHELL SECTION
.2 SCALE: NTS



SP3 POOL SHELL SECTION
.1 SCALE: NTS

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North Carolina Professional Seal
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Professional Engineer
Matthew M. Cronin

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CLIENT: **MATTAMY HOMES**

PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**

LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

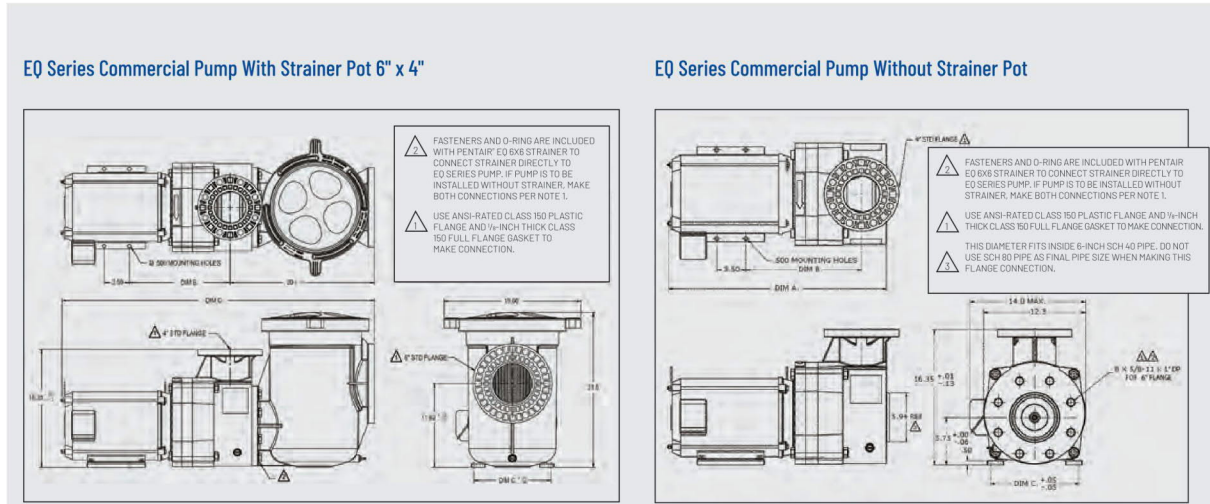
SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **23900139**

DATE: **03/07/2023** DRAWN BY: **FAB**

SECTIONS & DETAILS

SP.3



E0 Series Commercial Pump With Strainer Pot (6 inch x 4 inch)

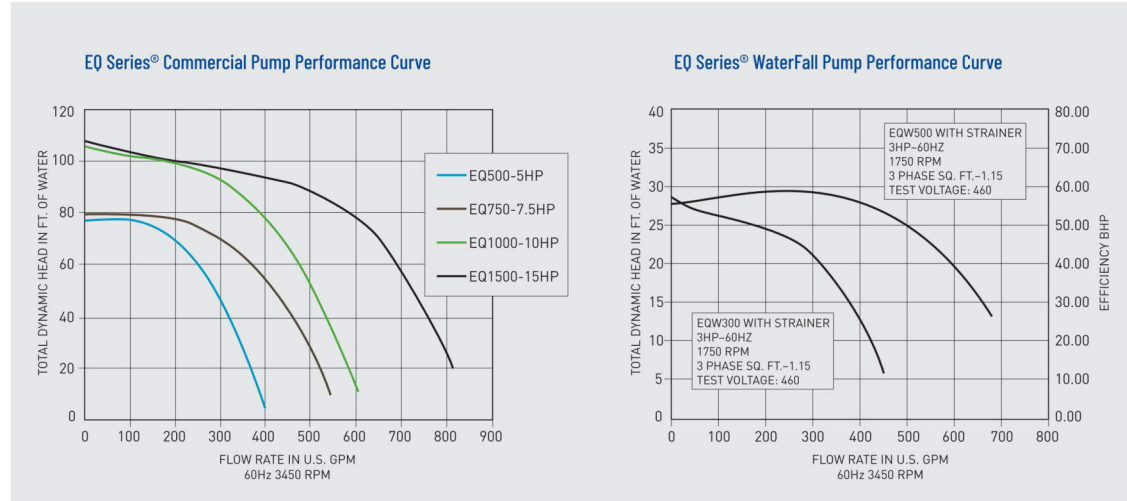
Part #	Part #	Description	Voltage	Amps	Phase	HP	Wt	Dim. A-DOP	Dim. A-TEFC	Dim. B	Dim. C	Dim. D-DOP	Dim. D-TEFC
340026		E0W 300 Water Fall	208-230/460	38/78	1	3	126	29.62	N/A	10.13	7.5	43.590	N/A
340027		E0W 300 Water Fall	208-230/460	8.4-7.9/33.9	3	3	106	23.32	N/A	10.16	7.5	40.094	N/A
340028		E0W 500 Water Fall	208-230/460	23.4	1	5	106	26.26	N/A	13.38	9.7	43.590	N/A
340029		E0W 500 Water Fall	208-230/460	18.8-12.7/6.4	3	5	106	23.24	24.59	13.31	9.7	40.094	45.25
340030		E0500	230	19.8	1	5	126	26.62	N/A	10.13	7.5	43.590	N/A
340031	340004	E0K600	208-230/460	13.5-12.3/6.2	3	5	108	23.22	24.68	10.16	7.5	40.094	45.25
340032		E0750	230	30.4	1	7.5	161	27.52	N/A	10.78	8.5	44.990	N/A
340033	340005	E0K900	208-230/460	20.1-18.3/9.1	3	7.5	116	24.50	28.08	10.16	7.5	45.660	45.32
340034	340006	E0K1000	208-230/460	27.1-24.3/12.2	3	10	148	28.31	28.81	10.78	8.5	43.290	46.79
340035	340007	E0K1500	208-230/460	40.0-38.0/17.8	3	15	161	28.31	28.81	10.78	8.5	43.290	46.79
340038		E01000	230	40.0	1	10	179	28.0	N/A	11.50	8.5	46.29	N/A

E0 Series Commercial Pump Without Strainer Pot (6 inch x 6 inch)

Part #	Part #	Description	Voltage	Amps	Phase	HP	Wt
340004		E0W 300 Water Fall	115/230	35/78	1	3	9.7
340006		E0W 300 Water Fall	208-230/460	8.4-7.9/33.9	3	3	7.7
340007		E0W 500 Water Fall	230	23.4	1	5	9.7
340008		E0W 500 Water Fall	208-230/460	13.8-12.7/6.4	3	5	7.7
340009		E0500	230	19.8	1	5	9.7
340020	340008	E0K600	208-230/460	13.5-12.3/6.2	3	5	7.7
340021		E0750	230	30.4	1	7.5	10.2
340022	340009	E0K900	208-230/460	20.1-18.3/9.1	3	7.5	8.7
340023		E01000	230	40.0	1	10	10.6
340024	340010	E0K1000	208-230/460	27.1-24.3/12.2	3	10	11.7
340024	340011	E0K1500	208-230/460	40.0-38.0/17.8	3	15	13.2

E0 Series Pumps are available in 575-V and 50-Hz models. Please contact your local sales representative or Pentair office for details.

M1



MATERIALS AND DESIGN

PUMP BODY
 Volume type, back-pull-out design.

- **Port Size**
 - 6-inch ANSI-rated 125 bolted flange suction port.¹
 - 4-inch ANSI-rated 125 bolted flange discharge port.¹
- **Material - Volume and Motor Adapter**
 - PP0 resin.
- **Impeller**
 - PP0 resin.
- **Base**
 - 6061 aluminum design, slotted for mounting ease.
- **Corrosion Prevention**
 - All-plastic pump for maximum hydraulic performance and corrosion prevention.

PUMP MAXIMUM THERMAL LIMITS
 - Ambient air temperature: 104 °F.
 - Liquid temperature: 104 °F.

MOTOR
 Standard JM type, Premium efficient CDP class F insulated. On TEFC options, 3MJ type, premium efficient, class F insulated.

- **Frame and Size**
 - NEMA-rated "C" frame.
- **Shaft**
 - 303 stainless steel construction.
- **Design**
 - 3-1/2 HP, 3,500 RPM, JM open drip-proof, continuous duty, three-phase and single-phase (5, 7.5, 10 HP), 5-1/2 HP, 3,500 RPM, JM TEFC, continuous duty, three-phase.
- **Bearings**
 - Double-shielded, single row, deep-groove type, permanently lubricated.
- **Thermal Overload Protection**
 - All models require external thermal overload protector.

HAIR AND LINT STRAINER

- **Material**
 - Separate bolt-on PP0 resin body with plastic basket, polycarbonate resin thermoplastic lid, and stainless steel bolts.
- **Size**
 - 6-inch, ANSI-rated 125 bolted flange suction and discharge ports.

¹Use ANSI-rated class 125 plastic flange and 1/2-inch thick class 125 full flange gasket to make connection.

M5, M19

A.S.A. MFG. INC.
 www.asamfg.com
 email: info@asamfg.com

14879 SW 11th St. Dunnellon, FL 34432
 352-465-0236
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HEAVY DUTY FIBERGLASS SUMPS

- Fast installation
- Rough sand exterior finish
- Durable smooth gelcoat interior
- No forming! No pouring!
- Premium fiberglass & resin for maximum structural strength
- Non-metallic - No grounding!
- 2" (p.c.x f.c.) fitting for hydro relief valve and pebble pipe
- "Quick Mount" hardware and sealant included
- Custom configurations fabricated - Call us today!
- Optional watertop flange

Legacy Flange Design

NSF (National Sanitation Foundation) Certified
VGB 2008 (Virginia Graeme Baker Pool and Spa Safety Act) Compliant

Fiberglass LEGACY SUMP Dimensions

Sump Size & Part #	A	B	C	D	E	F	Outlet Size (inches)	Grates (inches)	Notes
9" x 9" FPK-50-809	10.5	8.5	12	4.5	6.5	3"	List A	1"	1
12" x 12" FPK-50-812-4	14	12.5	12	4.5	6.5	3"	List B	1"	1
12" x 12" FPK-50-812-18-6	14	12.5	18	4.5	10	5.5"	List B	1"	1
18" x 18" FPK-50-818-6	20.5	18	20	4.5	10	5.5"	List C	1"	1
18" x 18" FPK-50-818-24-8	20.5	18	24	4.5	13.5	6.5"	List C	1"	1
24" x 24" FPK-50-824-10	27	24	30	4.5	17	11.5"	List D	1.2"	1,2

Notes:
 * See Sump Drawing above for ALL CRITICAL measurements
 ** See Component Drawing for details
 1. ASPEA113.19a.2008 dimensionally compliant
 2. See alternative A for full body with 1.3" Fig. 3
 3. Sumps with 1/2" outlet size are not listed

M2

Triton® II
 Fiberglass Sand Filter

The best reputation in the industry for all the right reasons:
 - Dependability and ease of operation and maintenance for a back-mount sandtrap
 - Superior filtration performance
 - Low pressure drop and low maintenance
 - Long service life
 - Easy to clean
 - Compact design
 - Low operating costs

M3

Blue-White Industries, Ltd.
 Engineering and Technical Data

F-300 U-300 D-300
 Pitot Tube Insertion Meters

Clamp-on Insertion Mount

Features:

- 1" through 12" pipe size
- Flow rates from 4 to 1900 GPM
- Resistant PVDF internal flow materials
- One piece machined acrylic body
- Mounts to existing pipe. No unions or adapters required.
- Models for mounting on horizontal or vertical pipe.
- Mounting clamp and gasket included.
- NSF Listed

Specifications:
 • 1/2 inch pipe size (ASTM-D-1785)
 • Accuracy: 1", 1.25", 1.5" and 2" pipe size: 0% of rate
 2.5", 3", 4", and 6" pipe size: 10% of rate
 • Max. Pipe Size: 75 PSIG (5.2 bar) at 70°F (21°C)
 • Fluid Temp Range: 0° to 190°F (-18 to 88°C @ 0 PSI)
 • Ambient Temp Range: 0° to 110°F (-18 to 43°C)
 • Note: Temperature and Pressure ratings for meter only. Actual pipe rating should be used.

Materials of Construction:
 Main Body: Cast Acrylic
 Gasket: Neoprene
 Fluit: PVDF
 Pipe Clamp: 316 Stainless Steel

Installation Requirements:
 Minimum Straight Pipe Length Requirements:
 • The meter accuracy is affected by disturbances such as pumps, elbows, valves, etc., in the flow stream. Install the meter in a straight run of pipe as far as possible from any disturbances.
 • Minimum Straight Pipe Length:
 - 4 inch: 20 inch (D" x 4") Minimum Outlet Pipe Length: 8 inch (D" x 4")
 - 6 inch: 30 inch (D" x 6") Minimum Outlet Pipe Length: 12 inch (D" x 6")

Mounting location:

- The meter is designed for unobstructed outdoor conditions.
- Gasket material must be installed at the vertical (center) position on horizontal pipe only.
- U-Gaskets must not be mounted on vertical pipe only.
- The pipe must be completely full of water at all times.
- Use the minimum straight length of pipe requirement chart above.
- The meter accuracy may be affected by flow direction only.
- Unobstructed meter inlet and outlet flow only.
- Excessive meter resistance does not occur.

M4

RAINBOW™
 HIGH CAPACITY CHLORINE/BROMINE FEEDERS

THE PERFORMANCE LEADER IN AUTOMATIC SANITIZATION FOR LARGE RESIDENTIAL AND COMMERCIAL POOLS

Models & Specifications:

Model	HC-3015	HC-3030	HC-3040
Part Number	R070715	R070730	R070740
Capacity	15 lb	30 lb	40 lb
Depth	8"	8"	8"
Maximum Clearance	22 1/2"	40 3/32"	51"
Capacity (lb)	15	30	40
Flow rate (GPM)	3.6	3.4	11.3
Flow rate (GPM) @ 2.00% Chlorine	2.8	4.4	3.0
Flow rate (GPM) @ 2.00% Bromine	4.8	7.9	5.7
Flow rate (GPM) @ 2.00% Chlorine	1.3	2.7	1.3
Flow rate (GPM) @ 2.00% Bromine	17.8	17.8	9.2
Outlet Rate, Chlorine	2.1	3.4	2.4
Outlet Rate, Bromine	1.8	3.0	5.4
Outlet Rate, Bromine	1.0	2.0	1.3
Maximum Pool Size @ 24 CFM Chlorine Feed	25,000	30,000	68,500
Maximum Pool Size @ 24 CFM Bromine Feed	95,200	146,000	292,000

AVAILABLE FROM: **PENTAIR**

AQUASTAR
 A Safe Drain in No Accident

12" x 12" Square "Wave" Anti-Entrapment Suction Outlet Cover and Frame

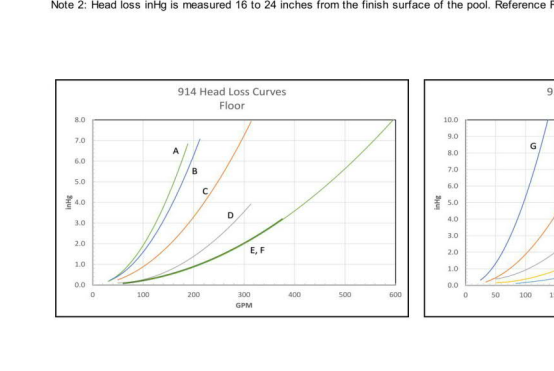
VGB Series
 The AquaStar line of suction outlet covers, compliant with the new Virginia Graeme-Baker Pool and Spa Safety Act (ASPE/ANSI A112.19.8a-2008)

Features:

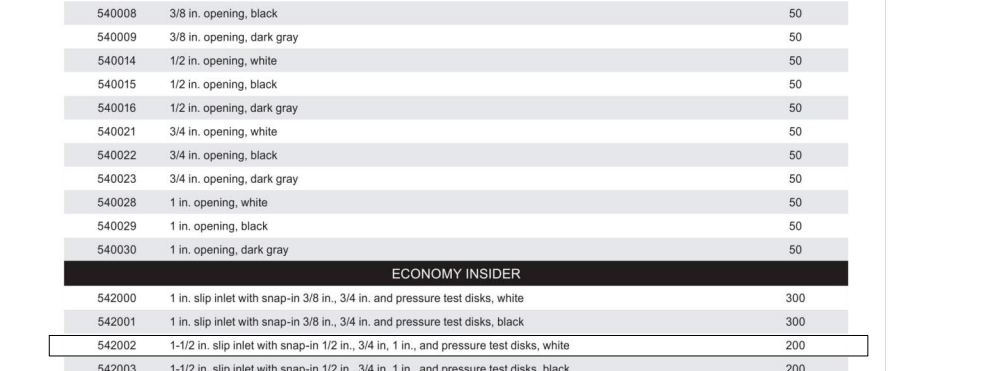
- Specially designed and engineered for ALL 1.0 and 1.5 GPM SIZES - great for gravity drain systems as well as direct suction.
- Features include:
 - Easy to install and maintain
 - Easy to clean
 - Easy to use
 - Easy to maintain
 - Easy to repair
 - Easy to service
 - Easy to clean
 - Easy to use
 - Easy to maintain
 - Easy to repair
 - Easy to service
 - Easy to clean
 - Easy to use
 - Easy to maintain
 - Easy to repair
 - Easy to service
 - Easy to clean
 - Easy to use
 - Easy to maintain
 - Easy to repair
 - Easy to service

Part # WAV120xx

M5



M7



M6

U-3 SKIMMERS
 SWIMQUIP® INGROUND SKIMMERS

Featured Highlights:

- Screw down lockable lid.
- 1-1/2" x 40mm slip or threaded ports.
- Optional equalizer valve.
- Compliant to AS1926.3

U-3 Skimmers feature a heavy-duty one-piece construction with sturdy external ribbing for superior strength. All U-3 Skimmers are made from high-strength ABS plastic.

Ordering Information:

Product	Description	Carton Dimensions (Inch)	Pallet Qty.	Carton Wt. (Lb)
08600-104L	U-3 Skimmer White w/White L&L Frame, 2 in. Slip with 1-1/2 in. Slip Reducers, Inc. Thread and Check Valve, Basket	39X26X14 1/2	24	4
08600-104R	U-3 Skimmer White w/White L&L Frame, 2 in. Slip with 1-1/2 in. Slip Reducers	39X26X14 1/2	24	4

Dimensions:



JDS Consulting
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 Email: info@jdsconsulting.net

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MATTAMY HOMES
 PROJECT: PROVINCE CREEK AMENITY CENTER & POOL
 LOCATION: 196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER OR AS NOTED

PROJECT NO: 23900139

DATE: 03/07/2023 **DRAWN BY: FAB**

DETAILS

SP.4

MAIN POOL EQUIPMENT SCHEDULE

Item	Description	Manufacturer / Model
M1	5 HP, SELF-PRIMING PUMP W/ MATCHING STRAINER, 220 GPM @65 F. OF HEAD - PROVIDE A SPARE BASKET FOR STRAINER.	PENTAIR - EQ500
M2	30" DIA., HIGH RATE SAND FILTER WITH 4.91 S.F. MEDIA	PENTAIR - TRITON II TR100
M3	FLOW RATE INDICATOR	BLUE-WHITE F/D/U-300
M4	EROSION CHLORINATOR	PENTAIR HC 3315
M5	MAIN DRAIN - 14" x 14" SUMP AND COVER/GRATE AND 1 1/2" HYDROSTATIC RELIEF VALVE	AQUASTAR 914xxx [SUMP P/N 9-4 SB]
M6	IN-GROUND SKIMMER	PENTAIR U3
M7	IN-WALL INLET W/ DIRECTIONAL FITTINGS	PENTAIR - 542002
M8	MULTIPOORT VALVE	PENTAIR 261055
M9	IN-WALL VACUUM FITTING, W/ PLUG	HAYWARD W400AHP
M10	5' MUSHROOM FOUNTAIN	NATURAL STRUCTURES 1800-18
M11	POOL HANDRAIL, 4' LONG	SRSMTTH DMS101-MG
M12	POOL LADDER, 3 RUNG	SRSMTTH LF24-38-MG
M13	500 WATT WHITE LIGHT WITH NICHE	PENTAIR-78456300
M14	IN-WALL CUP ANCHOR	PENTAIR-542044
M15	FLOOR DRAIN, CAST BODY, PVC COVER BY OTHERS - MAX. 50 GPM FLOW	
M16	BACKSTROKE FLAG ANCHOR	SELECTED BY OWNER
M17	HANDICAPPED LIFT	SR SMITH MULTI-LIFT
M18	3HP FOUNTAIN PUMP W/ MATCHING STRAINER, 130 GPM @ 65 F. OF HEAD - PROVIDE A SPARE BASKET FOR STRAINER	PENTAIR-WFE-12
M19	12"x12" FOUNTAIN SUMP AND COVER	ASA FPK 50-812-4 AQUASTAR WAV12
M20	POOL FLOOR INLET	PENTAIR 08417
M21	POOL HANDRAIL, 4" LONG, TWO BEND	SRSMTTH 2HR-4-MG
M22	AUTOMATIC WATER LEVEL CONTROLLER	PENTAIR T40-FW
M23	POOL CONTROL PANEL	PENTAIR EASYTOUCH 8

POOL CONTRACTOR SHALL VERIFY THAT POOL EQUIPMENT SCHEDULE AND CUT SHEETS MATCH BEFORE ORDERING ANY ITEMS OF EQUIPMENT

