



BERMELLO AJAMIL & PARTNERS • INC

Architecture • Engineering • Planning  
Interior Design • Landscape Architecture  
2601 South Bayside Drive  
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Miami, Florida 33133  
(305) 859-2050  
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PREPARED FOR OWNER:  
CITY OF KEY WEST, FL  
P. O. BOX 1409  
3140 FLAGLER AVENUE  
KEY WEST, FL 33041



PROJECT NAME:

**TRUMAN WATERFRONT PARK**

PROJECT LOCATION/ADDRESS:  
TRUMAN WATERFRONT PARK  
WEST OF FORT STREET AND THE  
TRUMAN ANNEX DEVELOPMENT,  
NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:

**PEREZ ENGINEERING & DEVELOPMENT, INC.**  
Certificate of Authorization No. 8579

1010 Kennedy Drive  
Suite 201  
Key West, Florida 33040  
(305) 293-9440  
Fax (305) 296-0243

PROFESSIONAL SEAL:

ALLEN E. PEREZ, P.E.  
FLORIDA REGISTERED ENGINEER  
51468

SUBMITTAL DESCRIPTION / MILESTONE:

**Permit Set  
September 30, 2015**

REVISIONS:

DRAWING SHEET INFORMATION

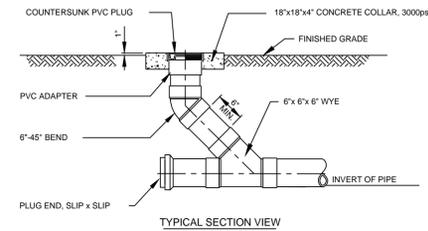
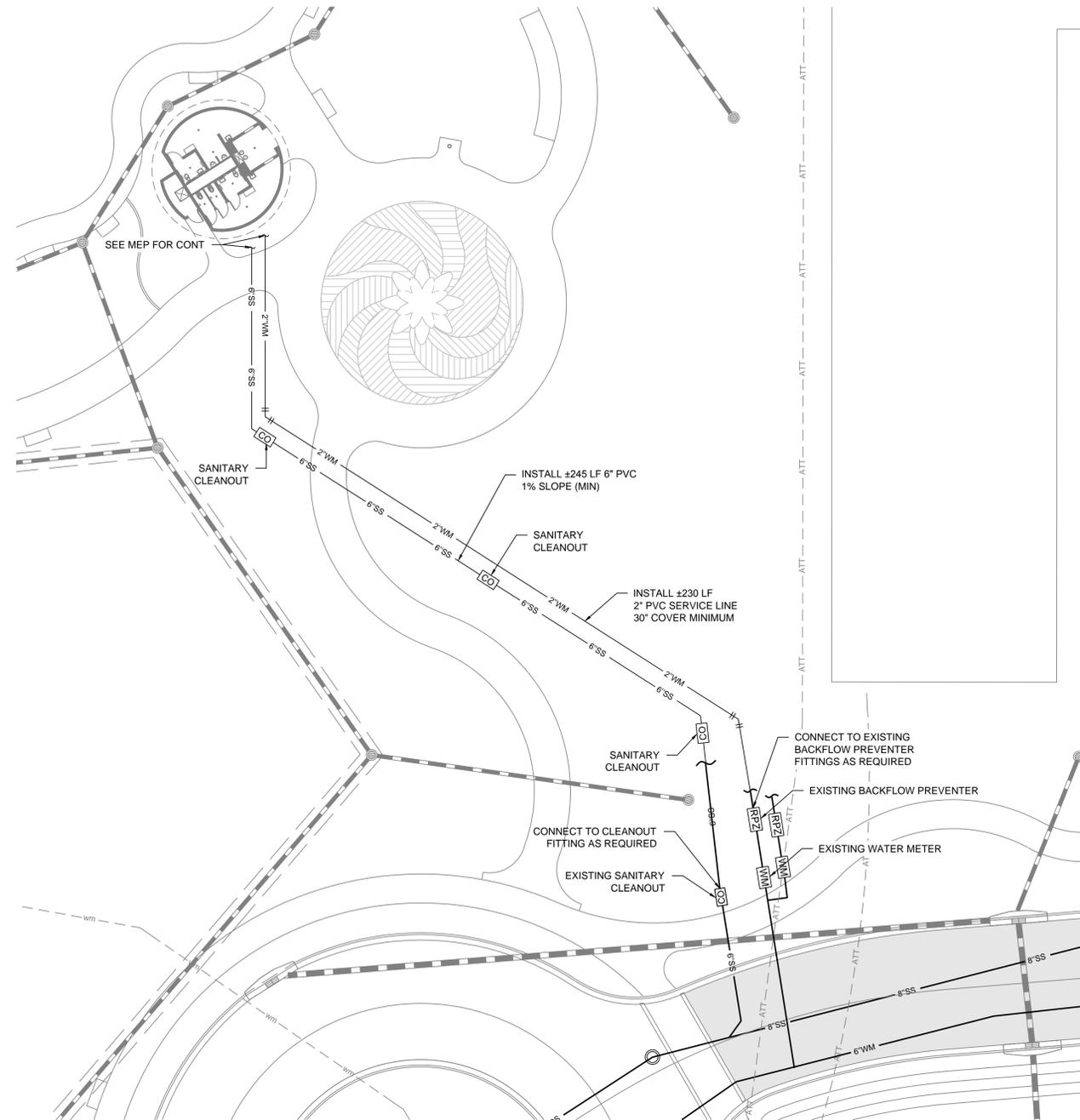
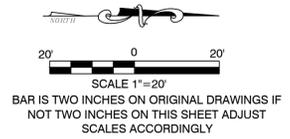
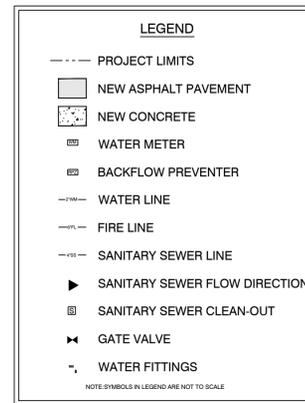
BA PROJECT NO.: 14041  
SCALE: 1" = 20'  
DATE: September 30, 2015  
DRAWN BY: BGO  
CHECKED BY: AEP  
CADD FILE:

DRAWING TITLE:

**UTILITY PLAN**

SHEET NO.

**C-1**



**NOTES:**

1. THIS SANITARY CLEAN OUT IS TO BE USED IN SODDED AREAS ONLY.
2. PLUG SHALL CONFORM TO ASTM D-3034, SDR-35, GASKETED.
3. WYE SHALL CONFORM TO ASTM D-3034, & NSF STANDARD #14.

**1 Sanitary Sewer Cleanout Detail: Non-Traffic Rated**  
NTS

- UTILITY NOTES:**
1. THE LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO OBTAIN ANY AVAILABLE RECORD DRAWINGS AND SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD. THE CONTRACTOR SHALL ANTICIPATE THAT SCANNING AND EXCAVATION USING LIGHT EQUIPMENT AND HAND METHODS WILL BE NECESSARY IN AREAS NEAR EXISTING UTILITIES AND STRUCTURES TO AVOID DAMAGING THESE FACILITIES.
  2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES IN THE FIELD PRIOR TO ORDERING NEW STRUCTURES AND PRIOR TO INSTALLING ANY NEW WORK THAT CROSSES OR CONNECTS TO EXISTING UTILITY SYSTEMS.
  3. ALL WATER MAIN WORK SHALL CONFORM TO THE LATEST FLORIDA KEY AQUEDUCT AUTHORITY'S STANDARDS AND SPECIFICATIONS.

**PLAN NOTES**

1 COMMERCIAL GRADE BATHROOM FIXTURES AND ACCESSORIES INCLUDING SINKS, LAVATORIES, MIRROR, SOAP DISPENSER, TOILET PAPER DISPENSER AND GRAB BARS. SEE SHEET A-03 FOR ADDITIONAL DETAILS AND ADA CLEARANCE REQUIREMENTS.

2 ROOM 003 IS A DEDICATED JANITOR'S STORAGE SPACE, NATURALLY VENTILATED. INTERIOR WALLS ARE PAINTED SCRATCH COAT FINISH ABOVE AND EPOXY FLOOR. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

3 NOA APPROVED FIBERGLASS DOORS AND FRAME. ALL ASSOCIATED HARDWARE TO BE NON-CORROSIVE MATERIAL INCLUDING ADA ACCESSIBLE THRESHOLD. SEE DOOR SCHEDULE.

4 ALUMINUM GRILL OVERHEAD DOOR INCLUDING TRACKS, COMPONENTS, ASSOCIATED FRAMING, FASTENERS, ETC. AS REQUIRED. REFER TO DOOR SCHEDULE. SEE DETAIL 4 / A-02.

5 UNLESS OTHERWISE NOTED, ALL BATHROOM INTERIOR CMU WALLS ARE TILE AT 7'-4" WITH PAINTED STUCCO FINISH ABOVE. EXTERIOR PERIMETER WALLS ENCLOSING BUILDING SHALL BE PAINTED SMOOTH FINISH. SEE DETAILS FOR ADDITIONAL INFORMATION.

6 NEW EPOXY COATING OVER CONCRETE FLOOR SLAB SLOPING TO FLOOR DRAIN. COATING TO MEET VOC REQUIREMENTS OF 100G/L MAX.

7 H.C. / ADA COMPLIANT HI-LO DRINKING FOUNTAIN WITH NO EXPOSED PLUMBING. CONTRACTOR TO INSTALL PIPING BEHIND WALL.

8 PHENOLIC RESTROOM PARTITION DOORS (3'-0" MIN. x 5'-0" HIGH) REFER TO DET 5/A-1.5 FOR MOUNTING HEIGHT.

9 MOP SERVICE SINK.

NOTES:  
CONTRACTOR TO COORDINATE WITH CITY AN ACCEPTABLE LOCATION FOR STAGING, EQUIPMENT AND LAY-DOWN AREA FOR ALL WORK.  
REFER TO STRUCTURAL PLANS FOR ADDITIONAL DETAILS AND NOTES NOT SHOWN IN THIS PLAN.

LEGEND:  
F.D. FLOOR DRAINS (REFER TO DETAILS SHEETS AXXX)

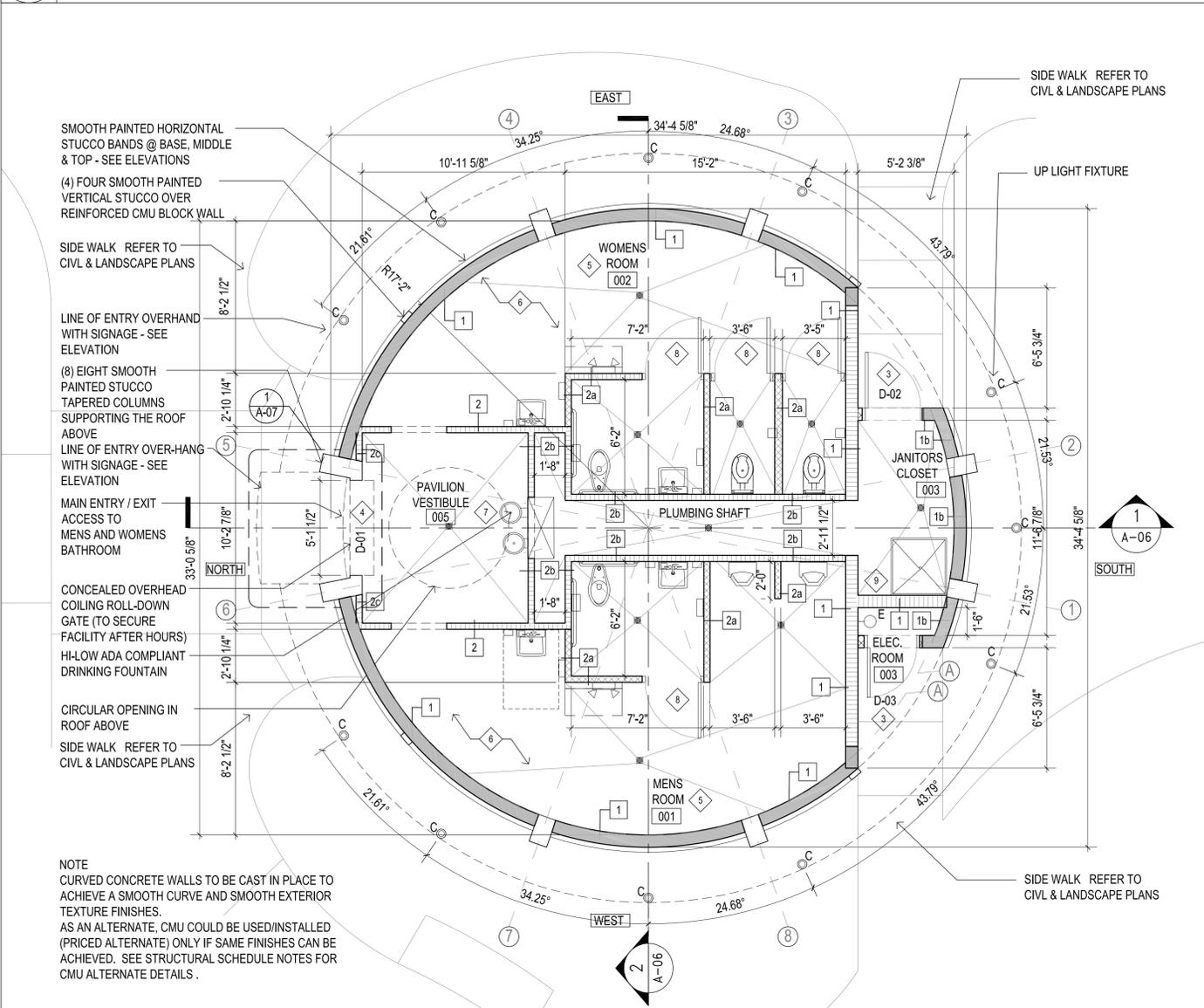
**ROOM FINISH SCHEDULE**

RM NO.	RM NAME	WALLS	FLOORS	BASE	CEILING	REMARKS
001	MENS	CT / PSW	ECF	CT	EXPOSED PHG	
002	WOMENS	CT / PSW	ECF	CT	EXPOSED PHG	
003	JANITORS CLOSET	CT / PSC	ECF	CT	EXPOSED PHG	
004	ELECTRICAL ROOM	PSC	ECF	N/A	EXPOSED PHG	
005	VESTIBULE	PSC	ECF	N/A	EXPOSED PHG	

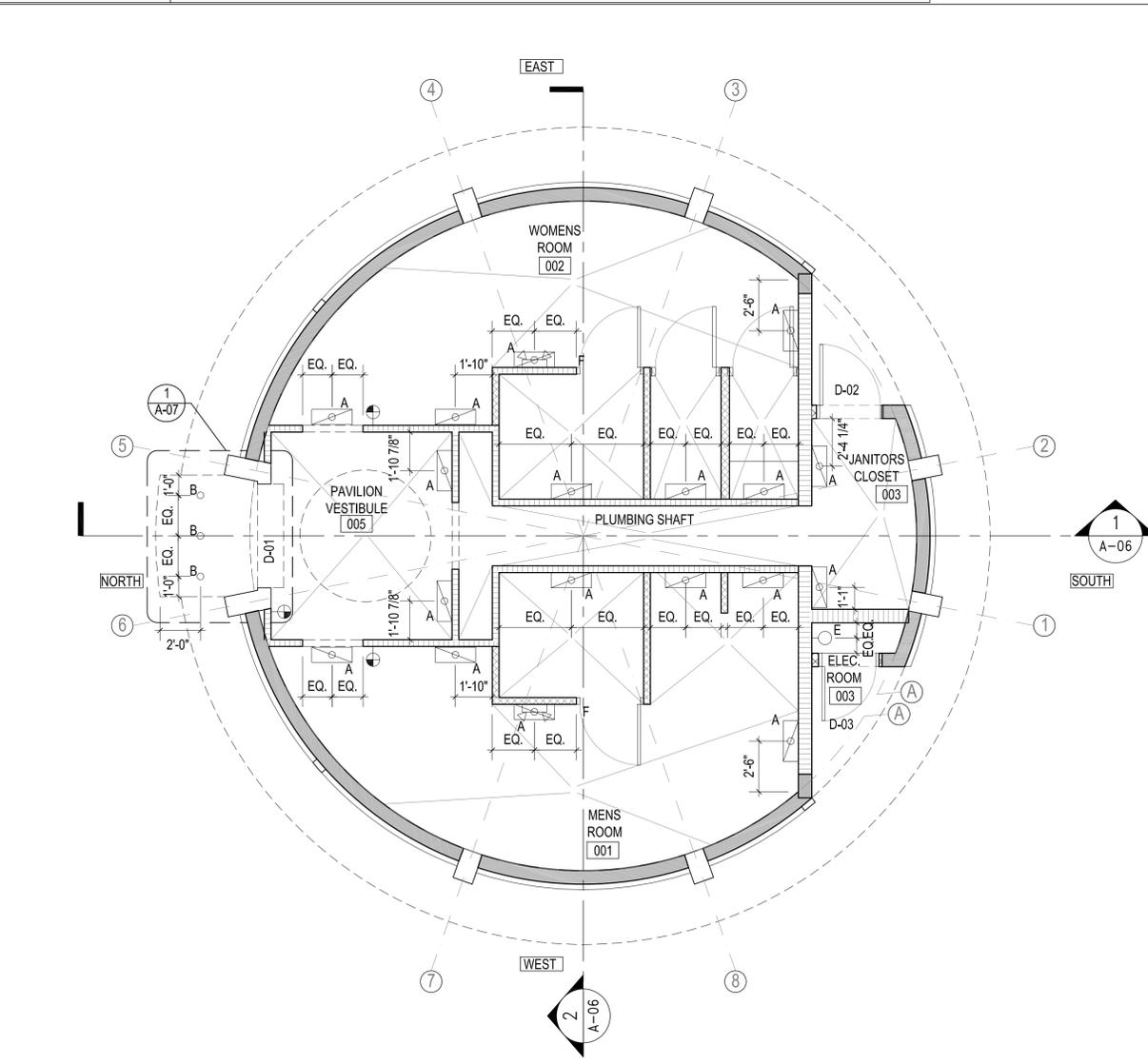
LEGEND:  
CT / PSC: 5'-4" OF SUBWAY WALL TILE WITH 2'-0" OF 4"x4" ABOVE WITH PAINTED SCRATCH COAT ABOVE  
CT / PSW: 5'-4" OF SUBWAY WALL TILE WITH 2'-0" OF 4" X 4" ABOVE WITH PAINTED STUCCO WALLS ABOVE  
ECF: EPOXY CONCRETE FLOOR  
EXPOSED PHG: NO CLG. / OPEN TO PTD. HIGH GLOSS SLAB ABOVE

NOTES:  
1. CEILING: UNDERSIDE OF CEILING SHALL BE A HIGH GLOSS PAINTED STUCCO FINISH WITH CONT. DRIP EDGE ON ALL SIDES.  
2. ALL TOP OF WALLS SHALL HAVE PAINTED STUCCO (SLOPE TO INSIDE)

**1 RESTROOM BUILDING - PLAN NOTES AND FINISH SCHEDULE**  
A-01 SCALE: 1/4" = 1'-0"



**2 RESTROOM BUILDING - FLOOR PLAN**  
A-01 SCALE: 1/4" = 1'-0"



**3 RESTROOM BUILDING - REFLECTED CEILING PLAN**  
A-01 SCALE: 1/4" = 1'-0"



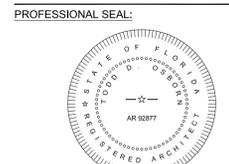
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SUB-CONSULTANT INFORMATION:



TODD D. OSBORN, R.A.  
FL. ARCHITECT REG. NO. AR 92877

SUBMITTAL DESCRIPTION / MILESTONE:  
**Permit Set  
September 30, 2015**

REVISIONS:

NO.	DESCRIPTION

DRAWING SHEET INFORMATION  
BA PROJECT NO.: 14041  
SCALE: AS NOTED  
DATE: September 30, 2015  
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**RESTROOM PAVILION  
FLOOR PLAN AND  
REFLECTED CEILING**  
SHEET NO.  
**A-01**



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DRAWING TITLE:  
**RESTROOM BUILDING  
ROOF PLAN -  
DOOR TYPES AND  
SCHEDULE**  
SHEET NO.

**A-02**

NOTES

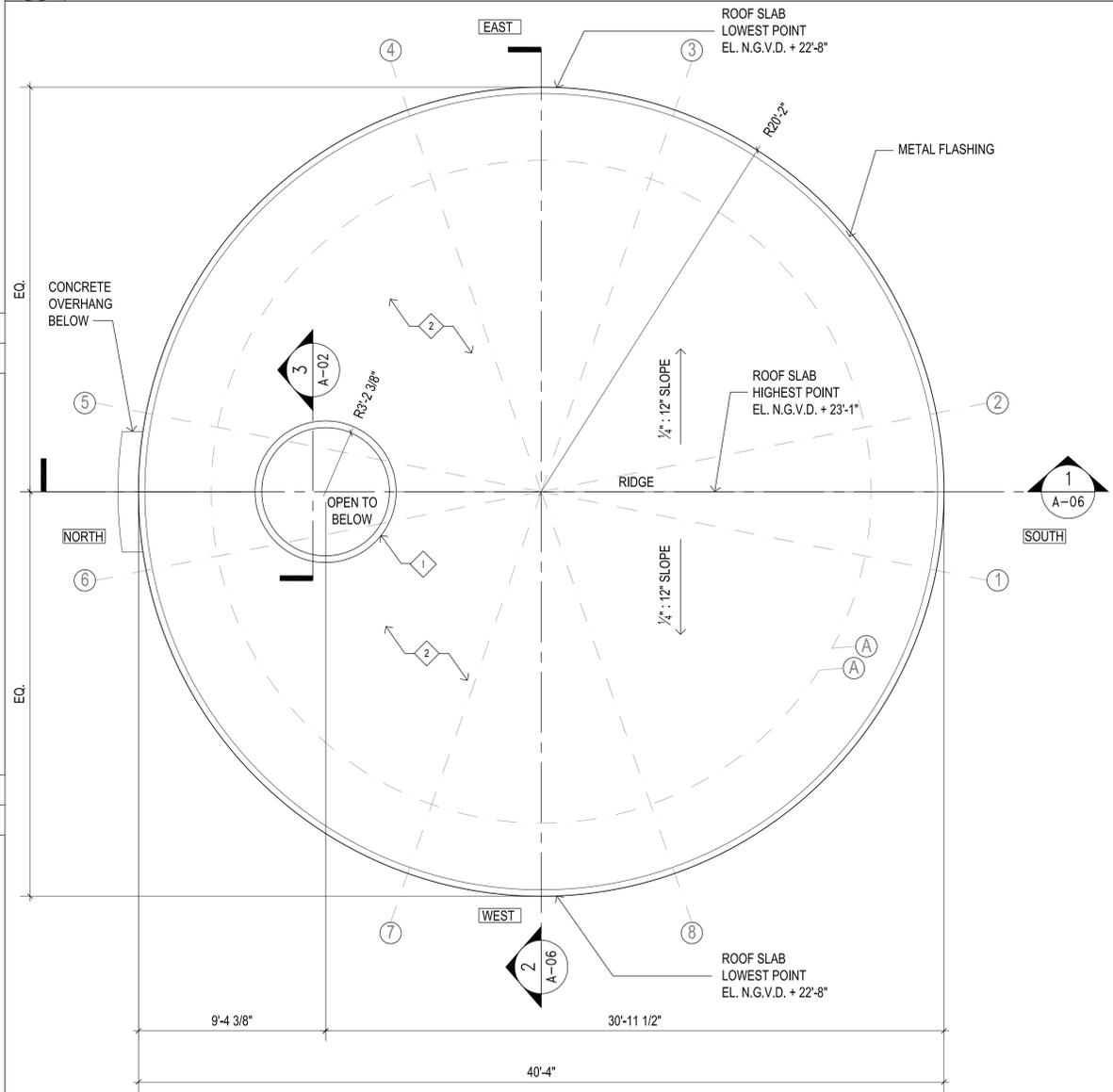
- 1 4" CONCRETE CURB - SEE STRUCTURAL.
- 2 REINFORCED CONCRETE ROOF WITH FLUID APPLIED WATERPROOF MEMBRANE ON TOP. SEE ROOF SLOPES.

SPECIAL NOTES:

- 1. CONTRACTOR TO COORDINATE WITH CITY AN ACCEPTABLE LOCATION FOR STAGING, EQUIPMENT AND LAY-DOWN AREA FOR ALL WORK.
- 2. REFER TO STRUCTURAL PLANS FOR ADDITIONAL DETAILS AND NOTES NOT SHOWN IN THIS PLAN.

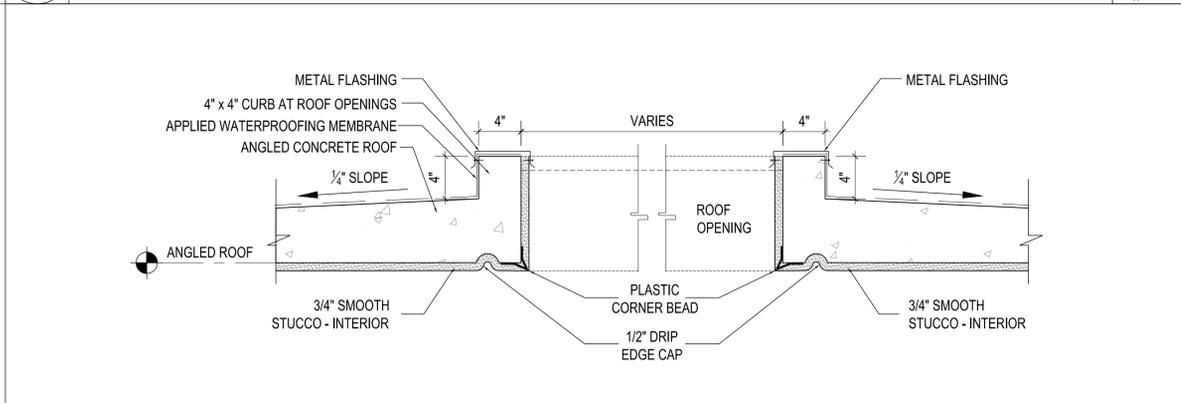
**1 RESTROOM BUILDING - ROOF PLAN NOTES**

A-02 SCALE: 1/4" = 1'-0"



**2 RESTROOM BUILDING - FLOOR PLAN**

A-02 SCALE: 1/4" = 1'-0"



**3 SECTION AT ROOF OPENING - TYPICAL**

A-02 SCALE: 1-1/2" = 1'-0"



D01 ALUMINUM UPWARD-COILING GRILL MANUAL PUSH-UP DOOR / F1  
(MODEL 670 BY OVERHEAD DOOR CORPORATION)

D02 / F2

**4 RESTROOM BUILDING - DOOR TYPES**

A-02 SCALE: 3/8" = 1' - 0"

DOOR SCHEDULE												
DOOR						FRAME						
NO.	MATERIAL	TYPE	LABEL	NOM. DOOR DIMEN.	PAINT	TYPE	MATERIAL	NOM. FRAME	JAMB	SILL	HDW.	PAINT
D-01	ALUM.GRILL	D01	-	5'-1.5" X 8'-0" X 1 3/4"	P-1	F1	ALUMINUM	5'-2" X 8'-0"				-
D-02	FIBERGLASS	D02	-	3'-0" X 8'-0" X 1 3/4"	P-1	F2	FIBERGLASS	3'-4" X 8'-0"			HW1	-
D-03	FIBERGLASS	D02	-	3'-0" X 8'-0" X 1 3/4"	P-1	F2	FIBERGLASS	3'-4" X 8'-0"			HW1	-

**5 DOOR SCHEDULE (SEE A-07 FOR DETAILS)**

A-02 SCALE: NTS

- HARDWARE SET E:
- LEVER STYLE LOCKSET
    - OUTSIDE AND INSIDE LEVER UNLOCKED
    - DEADLATCH
    - HEAVY DUTY
    - STAINLESS STEEL FINISH
    - ADA COMPLIANT
  - DEAD BOLT
    - THROWN OR RETRACTED BY OUTSIDE
  - MASTER KEY
    - BLANK PLATE INSIDE
    - HEAVY DUTY
    - STAINLESS STEEL FINISH
    - ADA COMPLIANT
  - STAINLESS STEEL AUTOMATIC CLOSER
  - STAINLESS STEEL HINGES
  - SILENCERS
- NOTE:  
ALL HARDWARE TO BE APPROPRIATE FOR SALT ENVIRONMENT.

**6 HARDWARE OUTLINE**

A-02 SCALE: NTS



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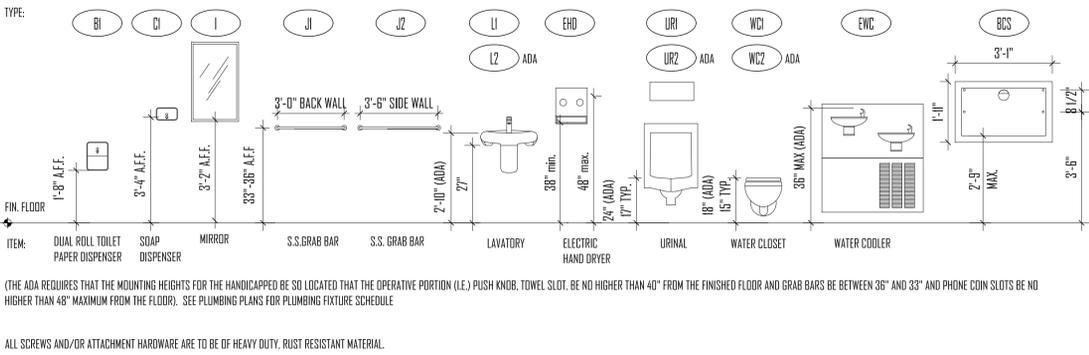
BA PROJECT NO.: 14041  
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CHECKED BY: TO

DRAWING TITLE:

FIXTURE & ACCESSORY  
FLOOR PLAN, NOTES,  
DETAILS & SCHEDULE

SHEET NO.

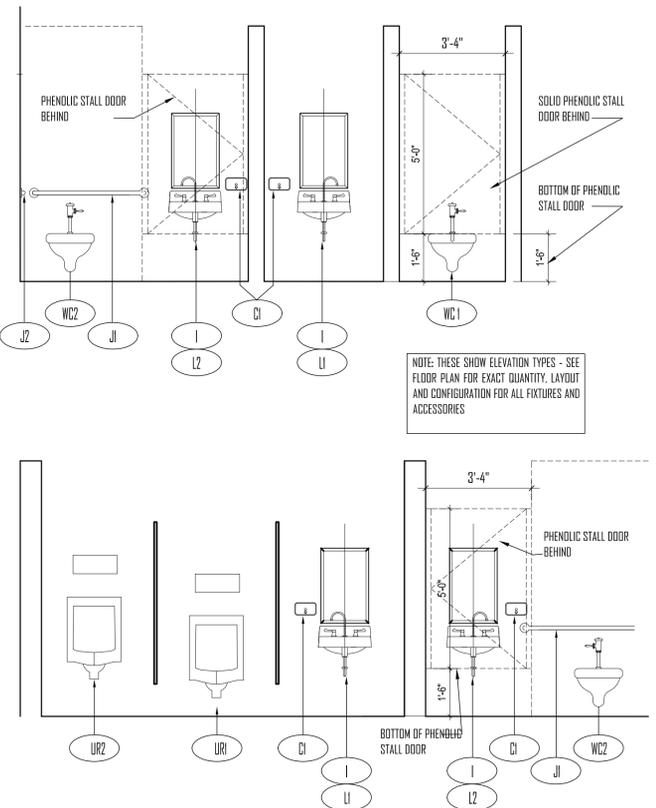
A-03



2 RESTROOM BUILDING-ACCESSORY SCHEDULE & PLUMBING MOUNTING HEIGHTS

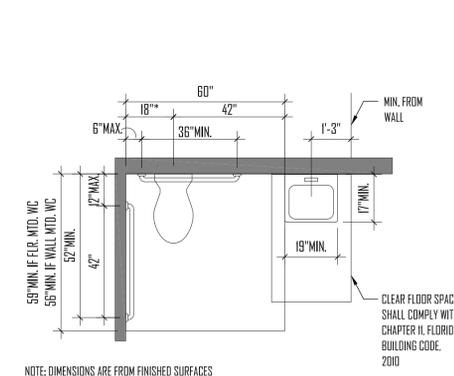
A-03 SCALE: 3/8" = 1' - 0"

Table with 3 columns: SYMBOL, ITEM, MANUFACTURE/MODEL. Lists items like Surface Mounted S.S. Dual Roll Toilet Paper Dispenser, Soap Dispenser, Mirror, Grab Bars, Lavatory, Hand Dryer, Urinal, Water Closet, Water Cooler, etc.



4 PLUMBING FIXTURE SCHEDULE

A-03 SCALE: NTS

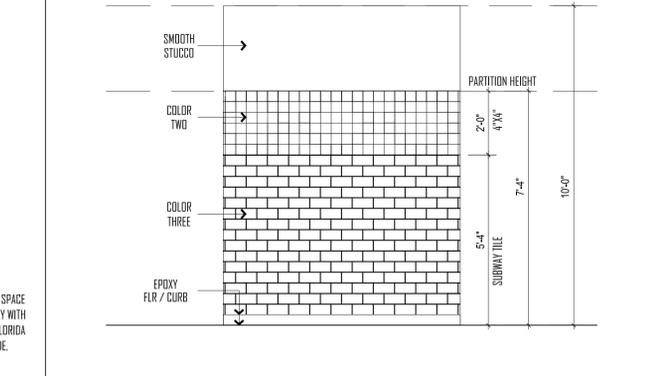


6 ADA MOUNTING DIMENSIONS

A-03 SCALE: 3/8" = 1' - 0"

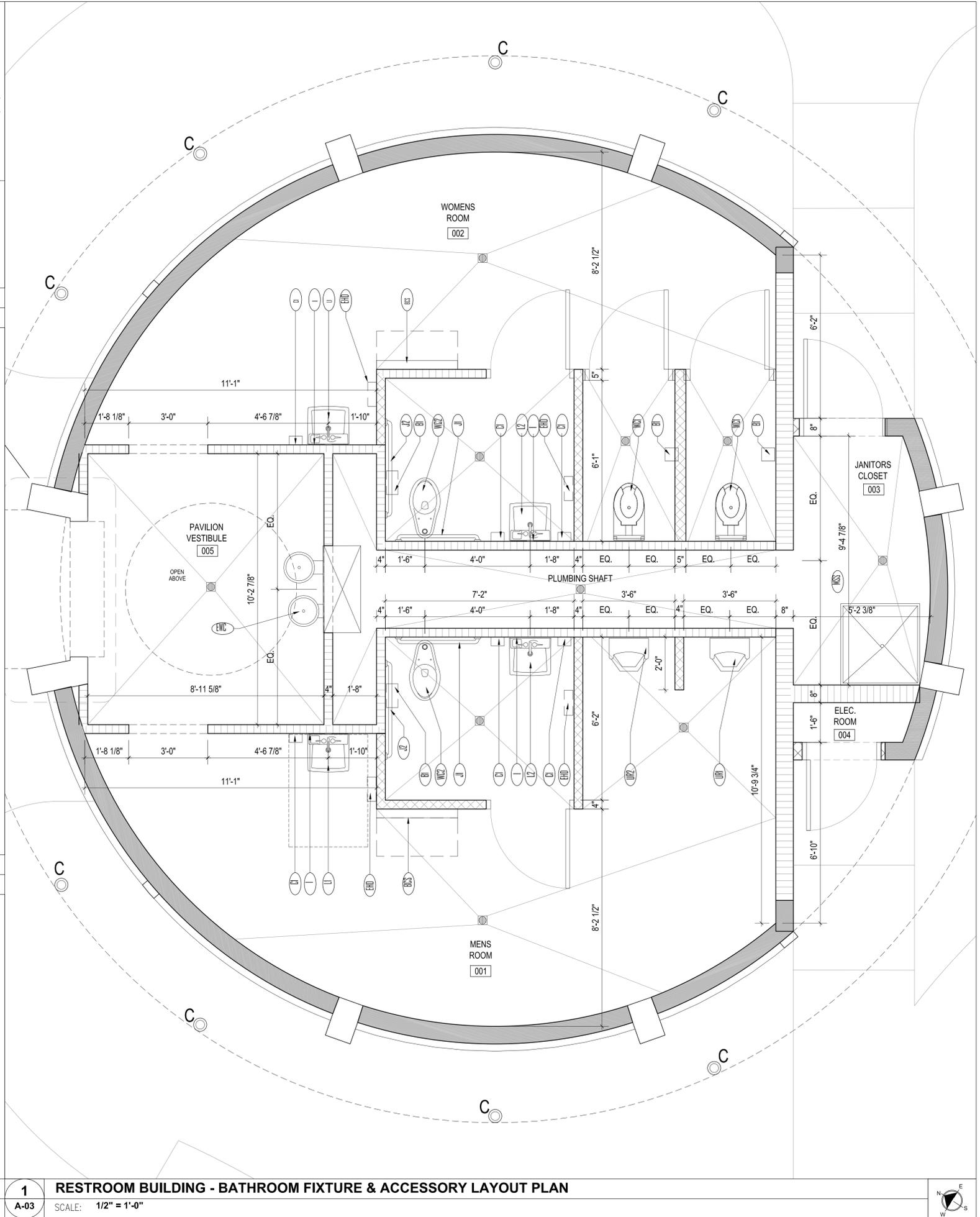
3 RESTROOM FIXTURE ELEVATIONS

A-03 SCALE: 3/8" = 1' - 0"



5 TYPICAL RESTROOM TILE ELEVATION

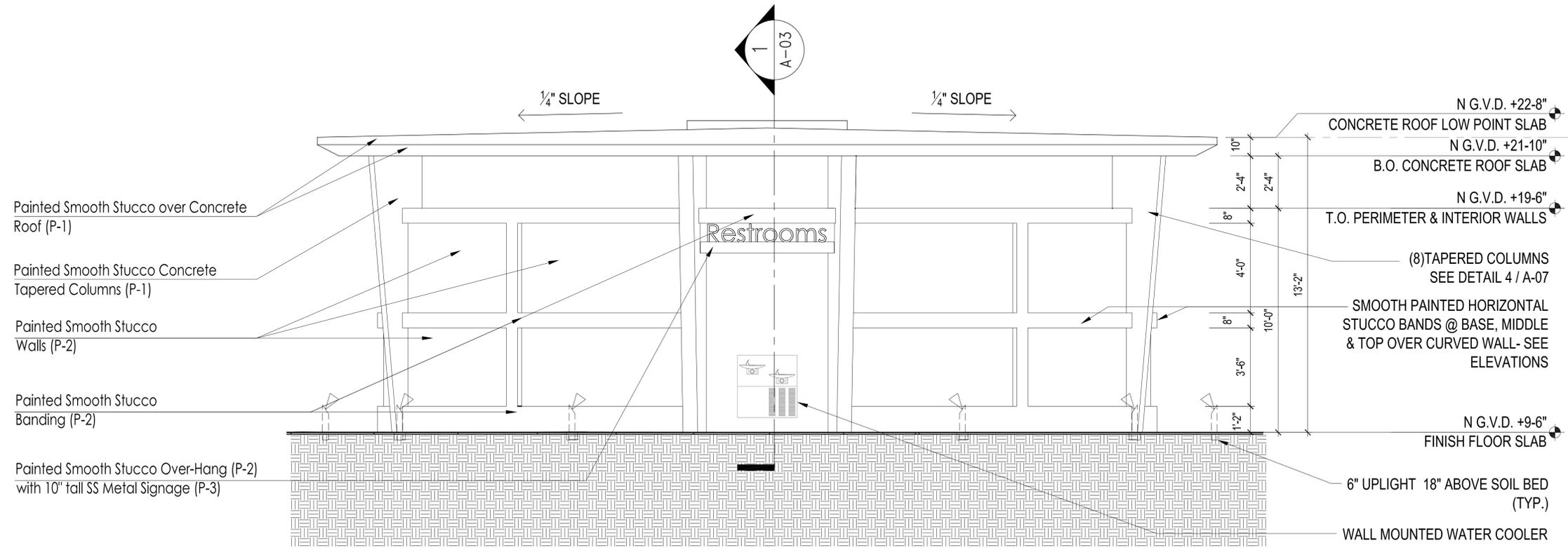
A-03 SCALE: 3/8" = 1' - 0"



1 RESTROOM BUILDING - BATHROOM FIXTURE & ACCESSORY LAYOUT PLAN

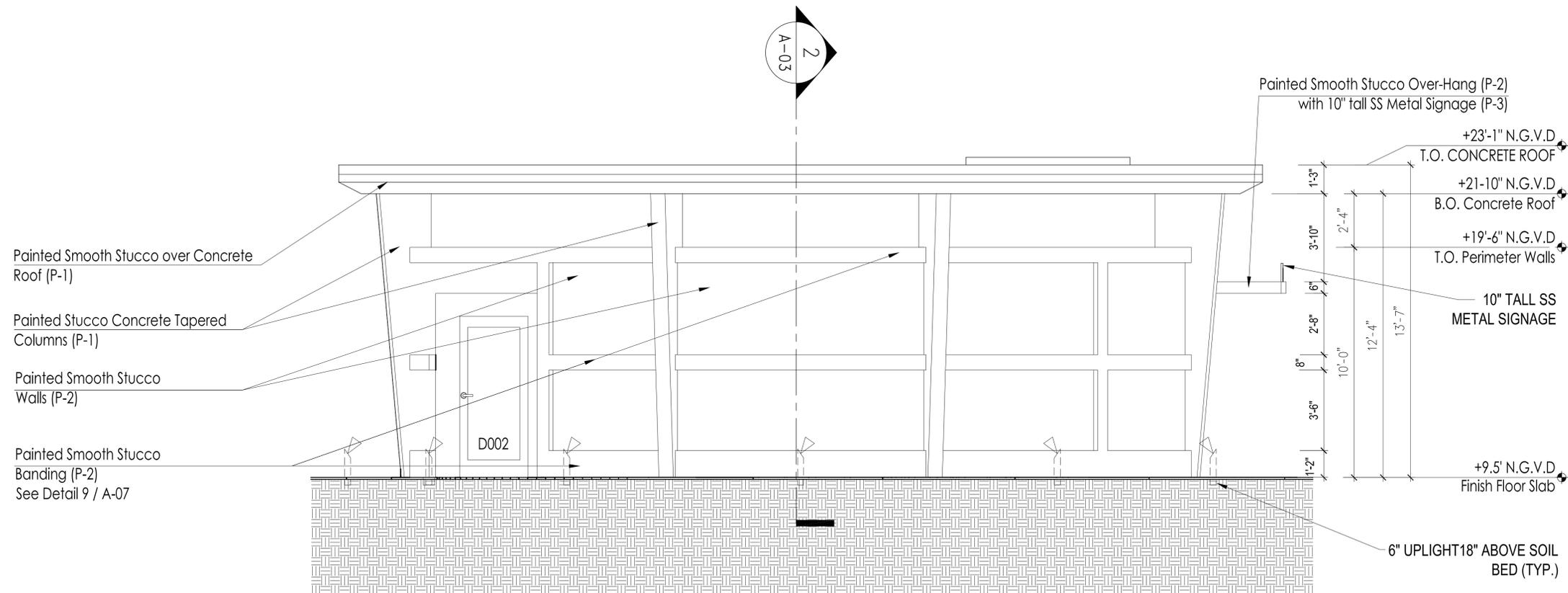
A-03 SCALE: 1/2" = 1' - 0"





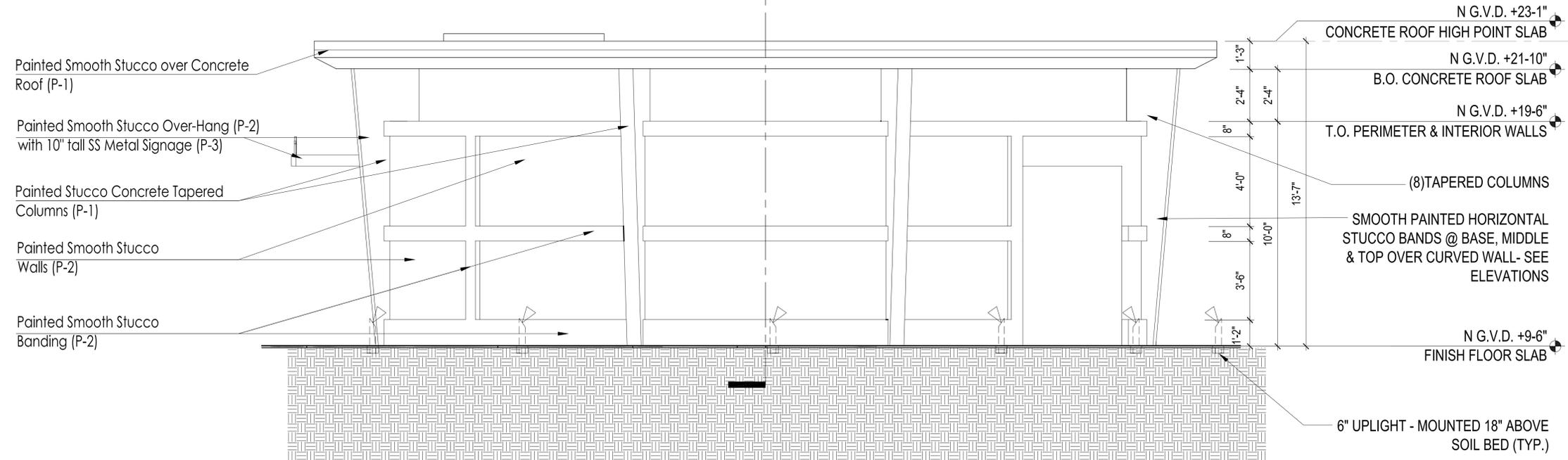
**1 BATHROOM PAVILION - NORTH ELEVATION**

A-04 SCALE: 3/8" = 1'-0"

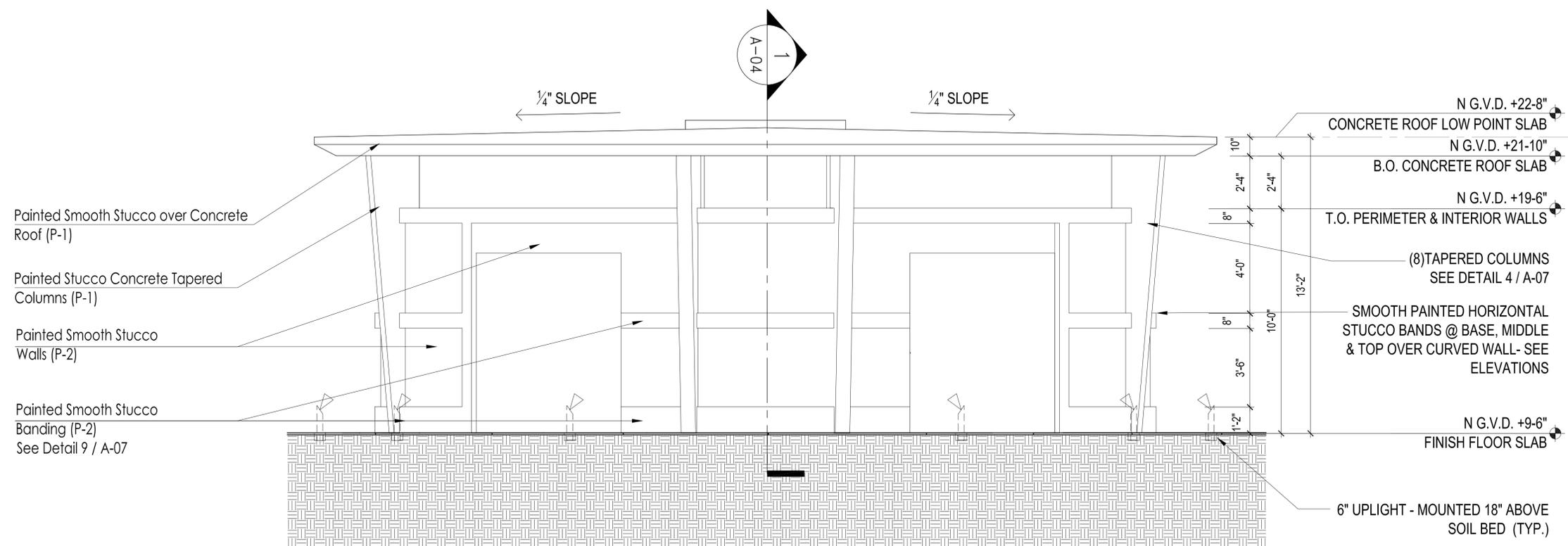


**2 BATHROOM PAVILION - EAST ELEVATION**

A-04 SCALE: 3/8" = 1'-0"



**1 BATHROOM PAVILION - WEST ELEVATION**  
A-05 SCALE: 3/8" = 1'-0"



**2 BATHROOM PAVILION - SOUTH ELEVATION**  
A-05 SCALE: 3/8" = 1'-0"



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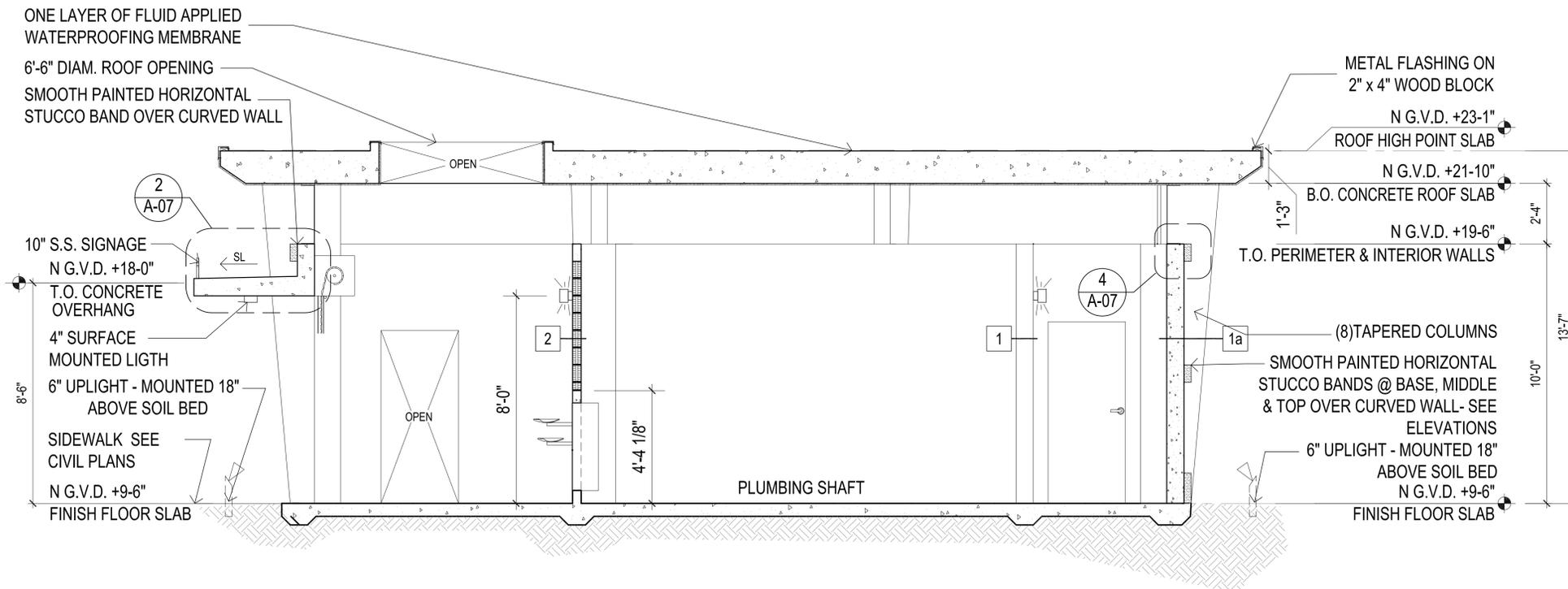
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**TRUMAN  
WATERFRONT  
PARK**

PROJECT LOCATION/ADDRESS:

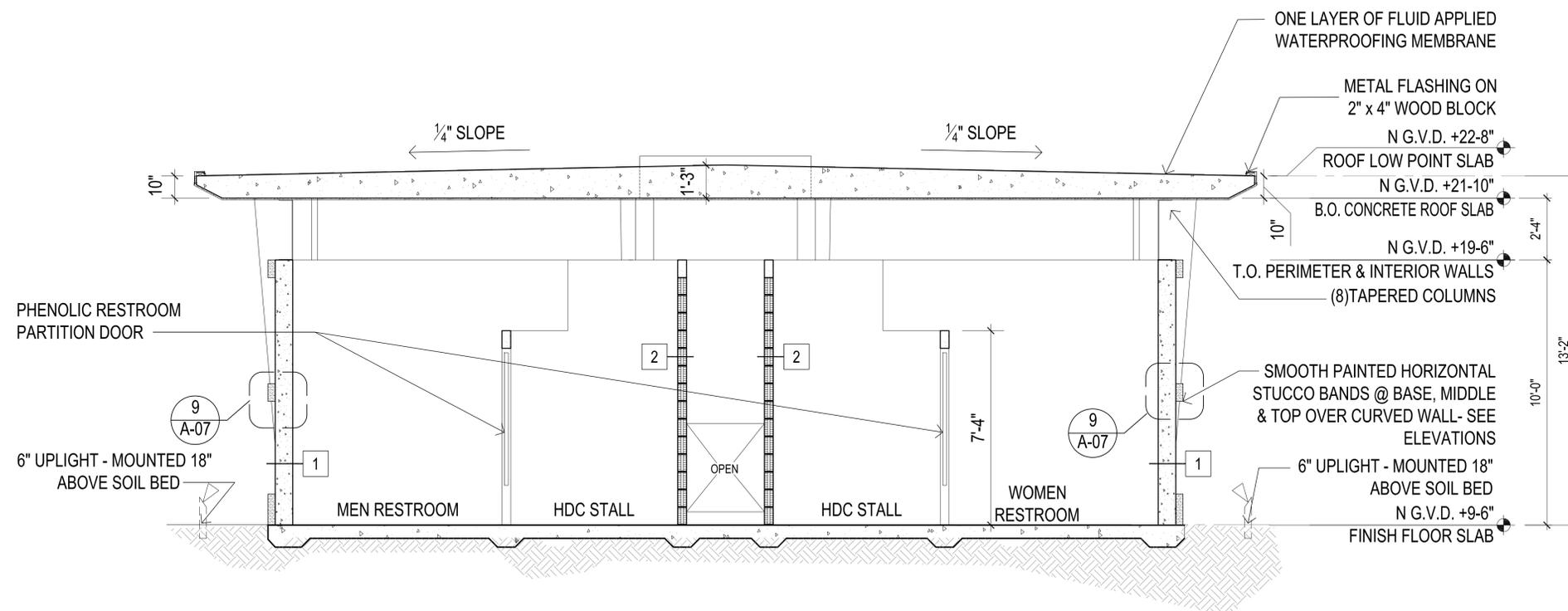
**TRUMAN WATERFRONT PARK**  
WEST OF FORT STREET AND THE  
TRUMAN ANNEX DEVELOPMENT,  
NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:



**1 BATHROOM PAVILION - SECTION 1**

A-06 SCALE: 3/8" = 1'-0"



**2 BATHROOM PAVILION - SECTION 2**

A-06 SCALE: 3/8" = 1'-0"

PROFESSIONAL SEAL:



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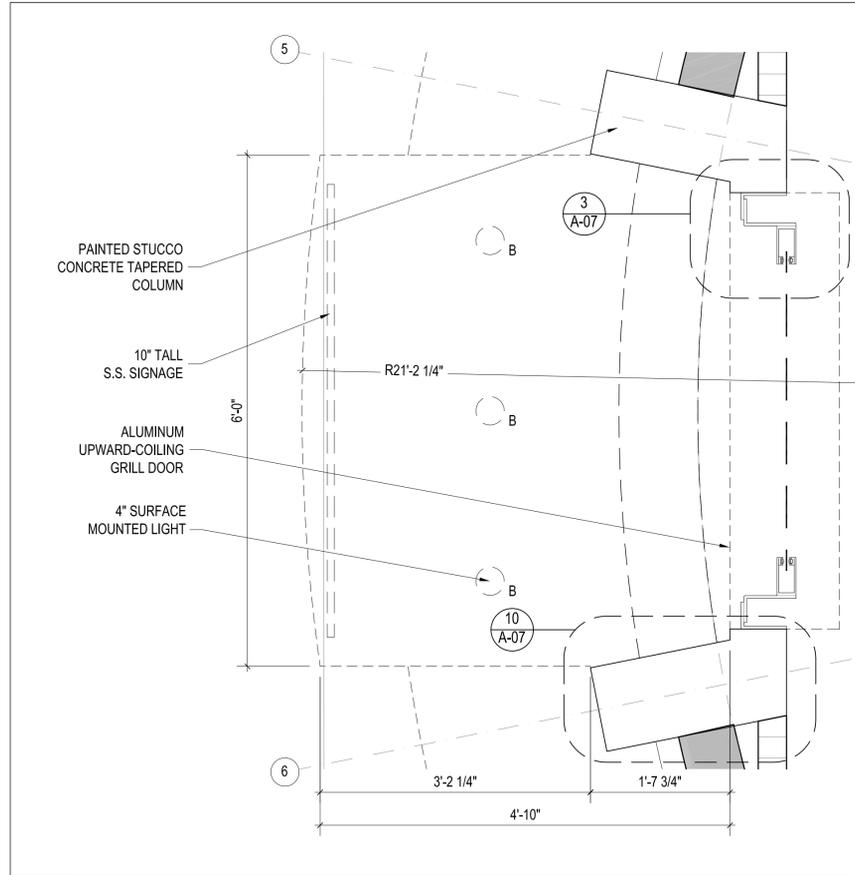
**RESTROOM BUILDING  
SECTIONS**

SHEET NO.

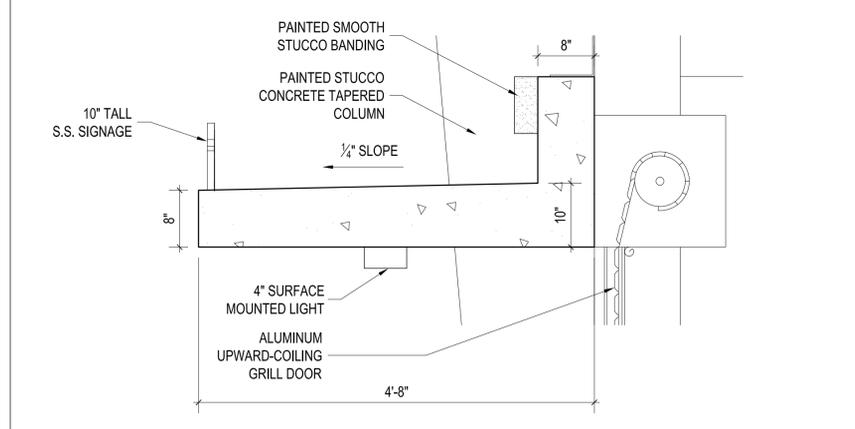
**A-06**



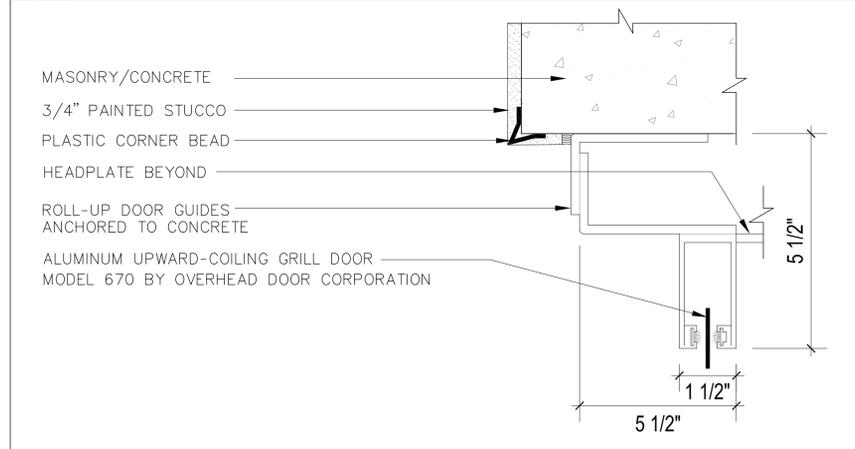

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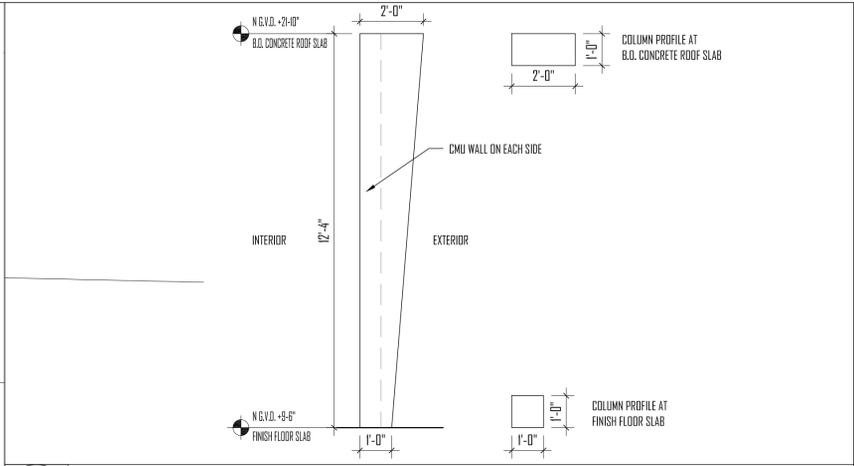
**1 PAVILION- CONCRETE OVERHANG DETAIL**  
A-07 SCALE: 1" = 1'-0"



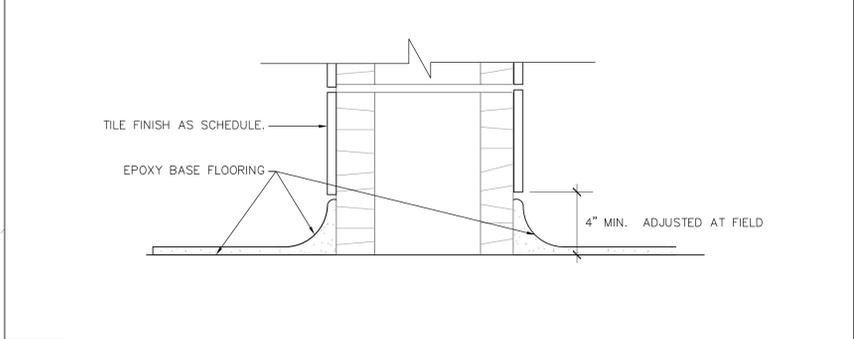
**2 CONCRETE OVERHANG SECTION DETAIL**  
A-07 SCALE: 1" = 1'-0"



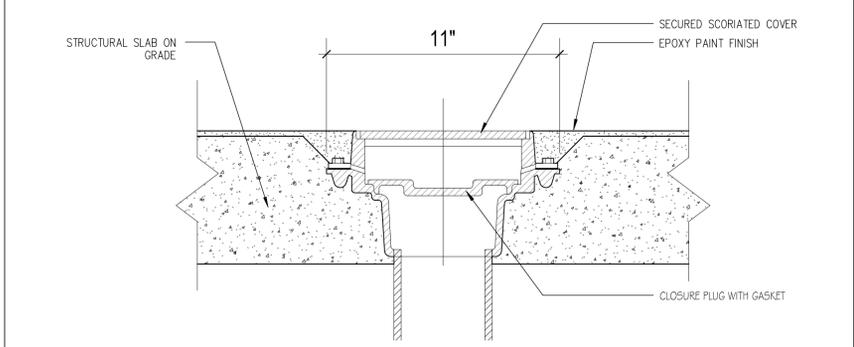
**3 ALUMINUM GRILL OVERHEAD DOORS D-01 - MASONRY/CONCRETE JAMB**  
A-07 SCALE: 3" = 1'-0"



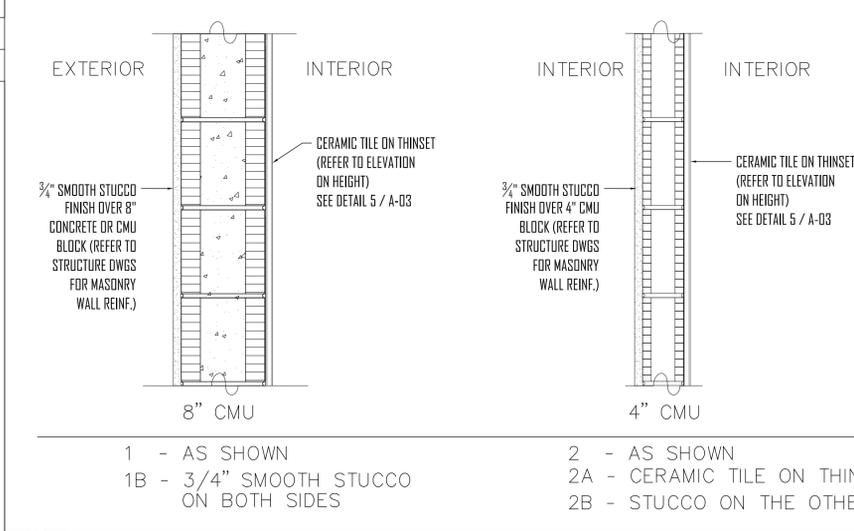
**4 CONCRETE TAPERED COLUMN DETAIL (TYP.)**  
A-07 SCALE: 3/8" = 1'-0"



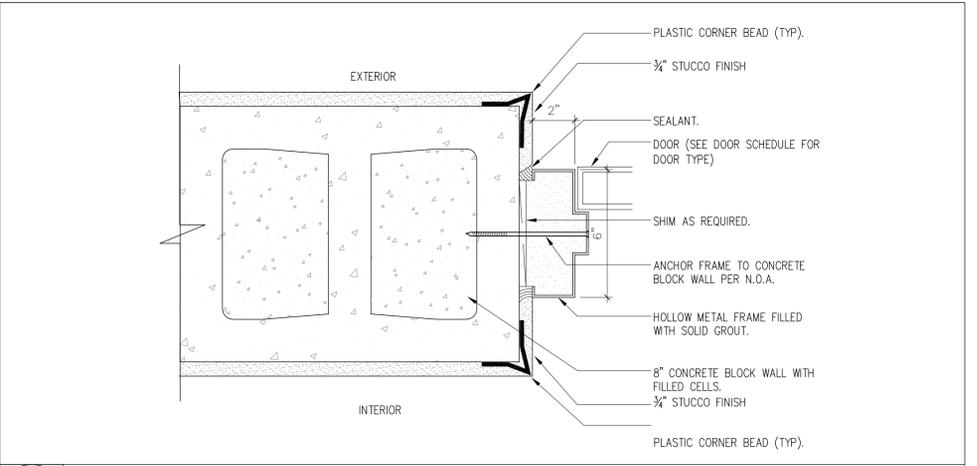
**5 COVE BASE DETAIL @ RESTROOM**  
A-07 SCALE: 3" = 1'-0"



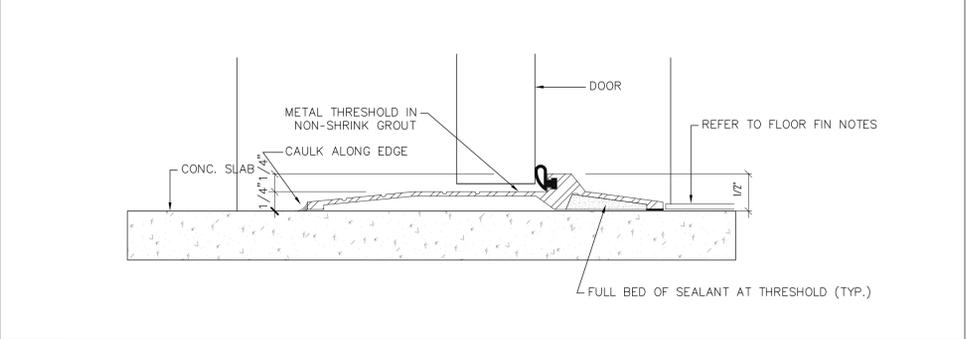
**6 (F.D.) FLOOR DRAIN SECTION**  
A-07 SCALE: 3" = 1'-0"



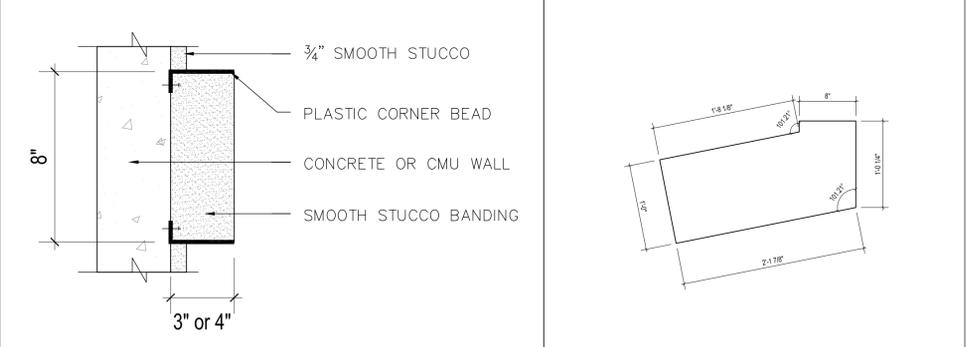
**11 RESTROOM BUILDING - WALL TYPES**  
A-07 SCALE: 1 1/2" = 1'-0"



**7 DOOR FRAME JAMB AND HEAD DETAIL**  
A-07 SCALE: 3" = 1'-0"



**8 DOOR THRESHOLD DETAIL**  
A-07 SCALE: 3" = 1'-0"



**9 STUCCO BANDING DETAIL**  
A-07 SCALE: 3" = 1'-0"



**10 COLUMN DETAIL AT ENTRY**  
A-07 SCALE: 3" = 1'-0"

**12 NOT USED**  
A-07 SCALE: 1 1/2" = 1'-0"



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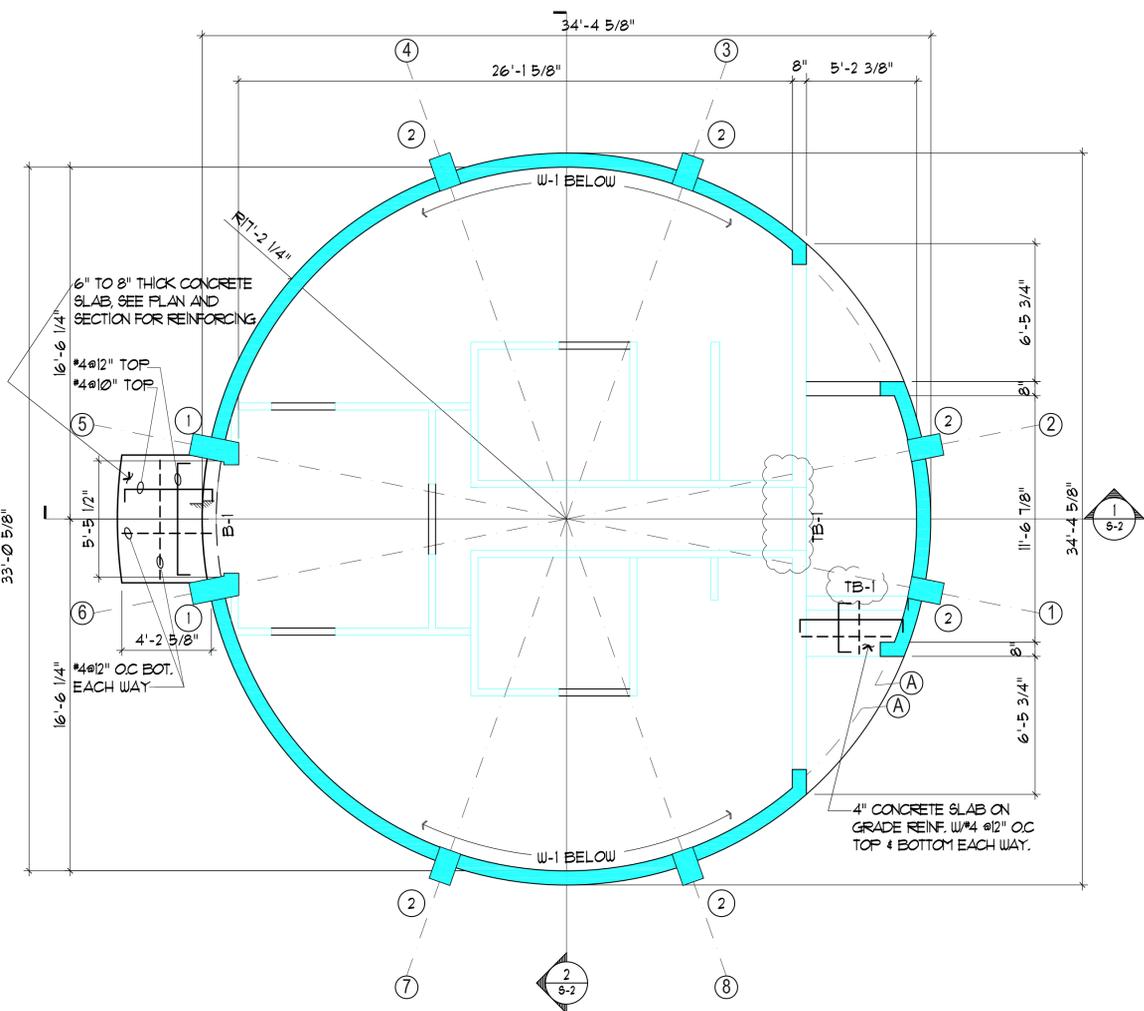
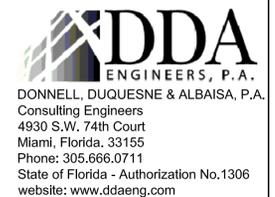
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DRAWING TITLE:

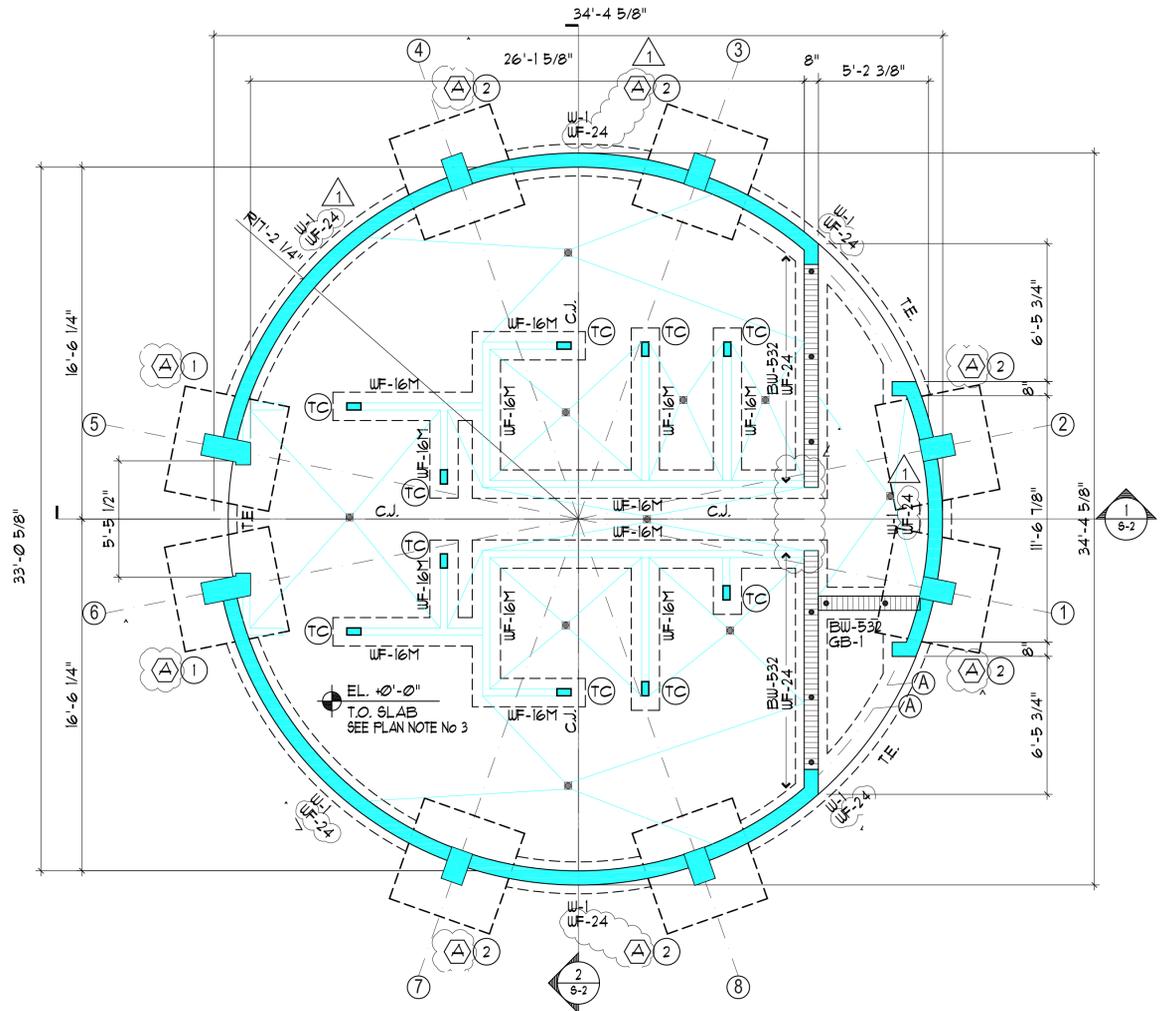
BATHROOM PAVILION  
FLOOR PLAN

SHEET NO.

**S-1.0**



**2 BATHROOM PAVILION - OVERHANG FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



**1 BATHROOM PAVILION - FOUNDATION AND GROUND FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

PLAN NOTES: GROUND FLOOR

- 1.- TOP OF SLAB ELEVATION = 0'-0" ± +3'-6" NGVD UNLESS OTHERWISE NOTED AS THIS ELEV.
- 2.- TOP OF FOOTING ELEVATION = -1'-0" UNLESS OTHERWISE NOTED AS THIS
- 3.- SLAB NOTE:  
SLAB NOTE: 4" CONCRETE SLAB ON 10 MIL VAPOR BARRIER OVER COMPACTED FILL, REINFORCED W/ 6x6- W1.4 x W1.4 W/WF. TYPICAL.  
C.J. DENOTES CONTROL JOINT, SEE DETAIL B/6-21
- 4.- COORDINATE ALL SLAB OPENINGS AND DEPRESSIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- 5.- HOUSEKEEPING PAD: (IF APPLICABLE)  
6" CONCRETE SLAB REINFORCED W/ 6x6-W2.9 x W2.9 WELDED WIRE FABRIC.
- 6.- FOR GENERAL STRUCTURAL NOTES, SEE SHEET S-2.0
- 7.- FOR COLUMN SCHEDULE, SEE SHEET S-21
- 8.- FOR BLOCK WALL SCHEDULE SEE SHEET S-21
- 9.- WALL LEGEND:  
DENOTES 8" MASONRY BEARING BLOCK WALL TYPE BW-532 AS SCHEDULED ON SHEET S-21  
CONCRETE WALL SEE SCHEDULE  
4" NON-STRUCTURAL CMU WALL.
- 10.- SIDEWALK SLAB: (SEE CIVIL DRAWINGS)  
4" CONCRETE SLAB ON COMPACTED FILL, REINFORCED W/ 6x6-W1.4 x W1.4 W/WF. TYPICAL.
- 11.- DENOTES COLUMN SYMBOL, SEE COLUMN SCHEDULE, SHEET S-21
- 12.- T.E. DENOTES 12"x8" DEEP THICKENED SLAB EDGE REINF. W/ (1) #4 TOP AND BOTTOM, TYP. AT ALL DISCONTINUOUS SLAB EDGES.
- 13.- WF-16M, DENOTES 16"x12" WALL FOOTING REINF. W/ 2% CONT. MONOLITHIC WITH THE SLAB ON GRADE.

**GENERAL STRUCTURAL NOTES**

**1. GENERAL:**

THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGISTS, BOLT HEADS, SLEEVES, DIMENSIONS, ETC. POTENTIAL CONFLICTS SHALL BE TRANSMITTED TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK. CONTRACTOR TO PROVIDE ADEQUATE TIME FOR RESPONSE FROM ARCHITECT/ENGINEER.

CONTRACTOR AGREES THAT HE WILL HOLD OWNER, ARCHITECT, ENGINEERS, AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, HARMLESS FROM ANY AND ALL DAMAGE AND CLAIMS WHICH MAY ARISE BY REASON OF ANY NEGLIGENCE ON THE PART OF THE CONTRACTOR, OR ANY OF HIS SUBCONTRACTORS, OR ANY MATERIAL AND EQUIPMENT SUPPLIERS, AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, IN THE PERFORMANCE OF THIS CONTRACT. IN CASE ANY ACTION IS BROUGHT AGAINST THE OWNER, OR ARCHITECT, OR ENGINEER, OR ANY OF THEIR EMPLOYEES OR AGENTS, CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DEFENSE THEREOF, TO THE FULL SATISFACTION OF THE LATTER PARTY.

**2. DESIGN LOADS: THE FOLLOWING SUPERIMPOSED LOADS WERE USED (UNO):**

**ROOF:**  
DEAD LOAD = 30 PSF  
LIVE LOAD = 30 PSF

**FLOOR:**  
DEAD LOAD = 5 PSF  
LIVE LOAD = 100 PSF

**WIND LOADS AS PER ASCE 7-10:** DESIGN WIND SPEED = 100 MPH  
EXPOSURE CATEGORY = D  
Kd = 0.85

DESIGN WIND PRESSURE ON ROOFING AS INDICATED ON THE DRAWINGS.

**3. SITE AND SOIL PREPARATION:**

GENERAL CONTRACTOR MUST PERFORM THE SITE PREPARATION AND EXCAVATION WORK IN ACCORDANCE WITH THE RECOMMENDATIONS ON SOILS AND FOUNDATIONS INVESTIGATION PREPARED BY: NUTTING ENGINEERS, THE GEOTECHNICAL ENGINEERS, PRIOR TO FOUNDATION WORK. A COPY OF THE SOIL REPORT DATED, DECEMBER 23, 2015, TO BE OBTAINED BY GENERAL CONTRACTOR FOR ANY ADDITIONAL INFORMATION PERTAINING THE FOUNDATIONS.

**4. FOUNDATIONS:**

BASED ON SOIL BORINGS AND RECOMMENDATIONS MADE BY NUTTING ENGINEERS, THE FOUNDATIONS HAVE BEEN DESIGNED WITH SMALL-LOW FOOTINGS FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF. GENERAL CONTRACTOR IS TO OBTAIN A COPY OF SOIL REPORT BY NUTTING ENGINEERS, DATED ON DECEMBER 23, 2015 TO COMPLETE THE SOIL PREPARATION INSTRUCTIONS.

**5. DEWATERING (IF APPLICABLE):**

MUST EVACUATE ALL WATER FROM WITHIN FORMWORK BEFORE PLACEMENT OF ANY CONCRETE. AFTER DEWATERING AND BEFORE PLACING CONCRETE, MUST RINSE THE REINFORCING STEEL CLEAN OF ALL DELETERIOUS MATERIAL IF PREVIOUSLY LEFT SUBMERGED.

**6. EXCAVATIONS:**

GENERAL CONTRACTOR TO NOT EXCAVATE ADJACENT TO OR NEAR NEW STRUCTURES AFTER THEY HAVE BEEN CONSTRUCTED. EXCAVATIONS FOR UTILITIES ADJACENT TO OR NEAR NEW STRUCTURES TO BE COMPLETED BEFORE THE NEW STRUCTURES ARE CONSTRUCTED. COORDINATE ALL UTILITIES WITH STRUCTURAL DRAWINGS. IF CONFLICTS EXIST CONTACT ARCHITECT AND STRUCTURAL ENGINEER.

GENERAL CONTRACTOR TO EXERCISE CAUTION DURING EXCAVATIONS ADJACENT TO THE EXISTING STRUCTURES. IF THERE EXISTS A DEVIATION OF THE EXISTING FOUNDATION FROM WHAT IS SHOWN IN THESE PLANS, CONTACT ARCHITECT AND STRUCTURAL ENGINEER.

LATERAL SUPPORT, AND FOR MAINTAINING THE INTEGRITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF THE CONSTRUCTION.

**7. SLABS ON FILL:**

FILL AND BACKFILL TO BE COMPACTED UNDER THE SUPERVISION OF A SPECIALTY ENGINEER TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY FOR ALL LAYERS AS VERIFIED BY FIELD DENSITY TESTS. TESTS SHALL BE MADE IN ACCORDANCE WITH METHODS OF TESTS FOR MOISTURE DENSITY RELATIONS OF SOILS, ASTM D-1551 MODIFIED TO USE 25 BLOBS ON FIVE LAYERS WITH A 10 POUND HAMMER DROPPING 18 INCHES. IN ADDITION, A MINIMUM OF ONE IN-PLACE FIELD DENSITY TEST SHALL BE PERFORMED FOR EACH 2500 SQUARE FEET, OR FRACTION THEREOF, FOR EACH LIFT OF COMPACTED SOIL, AND SUCH TESTING SHALL BE PERFORMED IN ACCORDANCE WITH EITHER ASTM D 1556, STANDARD TEST METHOD FOR DENSITY OF SOIL IN-PLACE BY THE SANDCONES OR ASTM D 2922, STANDARD TEST METHODS FOR DENSITY OF SOIL AND SOIL AGGREGATE IN PLACE BY NUCLEAR METHODS OR OTHER APPROVED METHODS. COMPACTION LAYERS NOT TO EXCEED 12". BACKFILL MATERIAL TO BE APPROVED BY SOIL ENGINEER. SLABS TO BE PLACED CONTINUOUSLY, HOWEVER, MUST BE SAW CUT SAME DAY IT IS PLACED AND LIMITED TO 200 SF, AND 15 FEET IN ANY DIRECTION. PROVIDE VAPOR BARRIER BELOW ALL SLABS ON FILL (10 MIL). REFER TO ARCHITECTURE FOR REQUIRED SOIL POISONING BENEATH ALL SLABS ON GRADE.

**8. CONCRETE (SHOP DRAWINGS REQUIRED):**

ALL CONCRETE TO ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 5000 PSI IN 28 DAYS AND W/C RATIO OF 0.4 AGGREGATES TO BE CLEAN AND WELL GRADED, MAXIMUM SIZE 1". CONCRETE SLUMP: 3" MIN. TO 5" MAX. VERTICAL CONCRETE DROP NOT TO EXCEED 8'.

**9. CONCRETE TESTING:**

AN INDEPENDENT TESTING LABORATORY, RETAINED BY THE CONTRACTOR, SHALL PERFORM THE FOLLOWING TESTS ON CAST-IN-PLACE CONCRETE:  
ASTM C 143 STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE  
ASTM C 39 STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS  
ONE TEST SHALL BE PERFORMED ON EACH CLASS OF CONCRETE PER EVERY 50 CUBIC YARDS, OR FRACTION THEREOF, PLACED PER DAY. PER EACH TYPE OF CONCRETE MIX, A SET OF FIVE CYLINDERS SHALL BE TAKEN. THE SAMPLES SHALL BE TESTED AT AGE OF 3 DAYS (ONE), 7 DAYS (ONE), 28 DAYS (TWO) AND 56 DAYS (REMAINING SAMPLE SHALL BE TESTED ONLY IF 28-DAY OLD CONCRETE FAILED TO ATTAIN ITS SPECIFIED DESIGN STRENGTH).

**10. REINFORCING STEEL (SHOP DRAWINGS REQUIRED):**

TO BE NEW HIGH STRENGTH STEEL DEFORMED AS PER ASTM A 305, AND CONFORMING TO ASTM A 615, GRADE 60 OR ASTM A 106, GRADE 60 WHERE WELDING IS ANTICIPATED. ALL REINFORCEMENT SHALL BE FREE OF SCALE, RUST OR OIL. REINFORCING STEEL TO BE DETAILED AND FABRICATED IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCING CONCRETE STRUCTURES", AND THE A.C.I. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318, LATEST EDITION. MECHANICAL OR WELDED SPLICES SHALL DEVELOP A MINIMUM OF 95 PERCENT OF THE SPECIFIED YIELD STRENGTH OF

**REQUIRED CLEAR CONCRETE COVER TO REINFORCEMENT**

FOOTINGS	3"	2"	3"
GRADE BEAMS	---	2"	2"
WALLS	---	---	1 1/2"
COLUMNS	---	---	1 1/2"
BEAMS	1 1/2"	1 1/2"	1 1/2"
SLABS	1"	1"	1"

ALL REINFORCEMENT SHALL BE SUPPORTED ON CHAIRS (SLAB-ON-GRADE, FOOTING OR PILE CAP REINFORCEMENT MAY BE SUPPORTED ON CONCRETE BRICKS). PROVIDE FULL TENSION SPLICE AT ALL REINFORCEMENT NOTED ON DRAWINGS AS CONTINUOUS. UNLESS DRAWINGS SPECIFICALLY CALL FOR HEAVIER REINFORCEMENT, FREE EDGES OF ALL CONCRETE SLABS (SLABS-ON-GRADE, REINFORCED OR POST-TENSIONED SLABS, STAIR SLABS, ETC.) SHALL BE REINFORCED WITH (1/4) CONT. TOP AND BOTTOM.

**11. CONSTRUCTION JOINTS (SHOP DRAWINGS REQUIRED):**

SLABS-ON-GRADE: LOCATION OF A CONSTRUCTION JOINT SHALL COINCIDE WITH THAT OF A CONTRACTION JOINT. PROVIDE A CONTINUOUS 1 1/2" DEEP x 1/2 DEPTH OF SLAB CONTINUOUS SHEAR KEY AT MID-DEPTH. PROVIDE RECESS ALONG TOP OF JOINT SIMILAR TO CONTRACTION JOINT. UNLESS NOTED OTHERWISE ON PLAN, DISCONTINUE SLAB REINFORCEMENT THROUGH THE JOINT. PROVIDE (1/4) CONT. PARALLEL TO JOINT WITHIN NEW SLAB (DISCONTINUE AT TRANSVERSE CONTRACTION JOINTS). CONSTRUCTION JOINTS TO HAVE A MAXIMUM SPACING OF 2 TO 3 TIMES THE SLAB THICKNESS.

**12. WELDED WIRE FABRIC:**

SHALL CONFORM TO ASTM A 185, AND BE FREE OF SCALE, RUST OR OIL. SPLICE SHEETS ONE-AND-A-HALF SPACE LENGTHS (MINIMUM).

**13. WEATHER RESISTANCE:**

TOP OF FLAT CONCRETE SURFACES REMAINING EXPOSED TO THE ELEMENTS THROUGHOUT THE LIFE OF THE STRUCTURE ARE TO BE TREATED WITH A CLEAR, NON-FLAMMABLE PENETRATING SEALER (STONEBORN PENETRATING SEALER 20, HYDROZO ENVIROSEAL 20 OR AN ENGINEER APPROVED SUBSTITUTE). COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION (COMPATIBILITY WITH FINISHES).

**14. PENETRATIONS:**

UNLESS CLEARLY SHOWN ON STRUCTURAL DRAWINGS, NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT A PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO IDENTIFY SUCH PENETRATIONS BASED ON INFORMATION PROVIDED BY ALL SUBCONTRACTORS AND TO SUBMIT DETAILED AND DIMENSIONED FLOOR PLANS TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY LABOR AND MATERIALS ASSOCIATED WITH ADDITIONAL REINFORCEMENT OF STRUCTURAL MEMBERS RESULTING FROM INTRODUCTION OF SUCH PENETRATIONS.

**15. MASONRY:**

- A. ALL CONCRETE BLOCK TO BE GRADE N-2, CONFORMING TO ASTM C-90, WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSF, AND A PRISM STRENGTH OF 1500 PSF (MINIMUM). MORTAR SHALL BE TYPE M, WITH A MINIMUM STRENGTH OF 2500 PSF (USE PORTLAND TYPE CEMENT). TEST MASONRY UNITS AND MORTAR BY TESTING LAB AT A RATE OF EVERY 1000 SQUARE FEET OF WALLS ERECTED.
- B. MASONRY WALLS SHALL BE REINFORCED HORIZONTALLY WITH 8 GAUGE DEFORMED GALVANIZED STEEL, SPACED AT 16" C/C VERT. EXTEND HORIZONTAL REINFORCING 4" INTO ADJACENT COLUMNS. PROVIDE TRUSS TYPE FOR NON-REINFORCED MASONRY AND LADDER TYPE FOR REINFORCED MASONRY.
- C. FOR VERTICAL REINFORCEMENT, SEE SCHEDULE AND LAP 48 BAR DIAMETERS MINIMUM. PROVIDE FULL BED OF MORTAR FOR REINFORCED MASONRY.
- D. AT ALL INTERIOR NON-BEARING BLOCK WALLS, MUST PROVIDE A TIE-BEAM 8" x 12", WITH FOUR #5 CONT. AND #3 TIES AT 48" C/C.
- E. PROVIDE CLEANOUTS WHEN GROUTING BLOCK CELLS, AND CLEAN OUT BLOCK CELLS OF ALL MORTAR DROPPINGS. MAXIMUM VERTICAL DROP FOR GROUTING IS 4'-0".
- F. AT THE END OF EACH DAY COVER ALL MASONRY WALLS.

**16. CONCRETE TIE COLUMNS (IF APPLICABLE):**

TIE COLUMNS SHALL BE CAST AGAINST PRE-ERECTED MASONRY WALLS. HORIZONTAL WALL REINFORCEMENT SHALL EXTEND 4" INTO CONCRETE TIE COLUMNS UNLESS SHOWN OTHERWISE. ALL TIE COLUMNS SHALL EXTEND TO THE UNDERSIDE OF SLAB/ BEAM OF THE FLOOR ABOVE (DO NOT TERMINATE AT INTERMEDIATE CONCRETE BEAMS OR TIE BEAMS AND SPLICE VERTICAL REINFORCEMENT 62 BAR DIAMETERS IF DISCONTINUED) WITH VERTICAL REINFORCEMENT CONTINUOUS THROUGH OR DEVELOPED INTO THE SLAB/BEAM.

**17. CONCRETE TIE BEAMS (IF APPLICABLE):**

TIE BEAMS SHALL BE CAST ON TOP OF PRE-ERECTED MASONRY WALLS. CORNER BARS SHALL BE PROVIDED AT ALL CORNERS AND INTERSECTIONS OF TIE BEAMS (MINIMUM LAP SPLICE 48 BAR DIA). ALL LONGITUDINAL TIE BEAM REINFORCEMENT SHALL BE CONTINUOUS THRU INTERMEDIATE TIE COLUMNS (MINIMUM SPLICE 62 BAR DIAMETERS) OR HOOK AT FAR FACE OF END TIE COLUMNS WHERE TIE BEAM TERMINATES AT CONCRETE COLUMN OR WALL. PROVIDE ONE #5 BAR x 4'-6" BETWEEN EACH PAIR OF LONGITUDINAL BARS (EPOXY 45" INTO CONCRETE AND ROUGHEN FACE OF CONCRETE TO 1/4" AMPLITUDE PRIOR TO PLACEMENT OF CONCRETE). WHERE REQUIRED, BOTTOM OF TIE BEAM MAY BE DROPPED TO SERVE AS A LINTEL WITH ADDITIONAL #5 HORIZONTAL BARS AT 12" C/C VERTICAL SPACING PROVIDED AT EACH FACE OF THE BEAM.

**18. LINTELS (IF APPLICABLE):**

UNLESS NOTED OTHERWISE ON THE DRAWINGS, CONCRETE LINTELS SPANNING OPENINGS UP TO 3'-4" IN WIDTH SHALL BE 8"x8" WITH (1/4) EF. AT MID-DEPTH, CONCRETE LINTELS SPANNING OPENINGS UP TO 1'-4" IN WIDTH SHALL BE 8"x8" WITH (2) #5 TOP AND BOTTOM AND #3 AT 12" C/C STIRRUPS. CONCRETE LINTELS SPANNING OPENINGS UP TO 12'-0" IN WIDTH SHALL BE 8"x16" WITH (2) #5 TOP AND BOTTOM AND #3 AT 6" C/C STIRRUPS. ALL LINTELS SHALL BEAR A MINIMUM OF 8" AT EACH END (12" FOR 16" DEEP LINTELS). PRECAST LINTELS SHALL BE NOTCHED AT ENDS IN ORDER TO FACILITATE PLACEMENT OF VERTICAL REINFORCEMENT IN MASONRY WALLS. LINTELS ADJUTING CONCRETE COLUMNS SHALL BE CAST IN PLACE. AT CONTRACTOR'S OPTION UTILIZED PRECAST LINTELS SHALL BE DESIGNED FOR GRAVITY AND LATERAL LOADS AS PER SOUTH FLORIDA BUILDING CODE. SHOP DRAWING SUBMITTAL, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, SHALL INCLUDE CALCULATIONS INDICATING CLEARLY VERTICAL AND HORIZONTAL ALLOWABLE LOAD CAPACITIES.

**19. SILLS (IF APPLICABLE):**

UNLESS NOTED OTHERWISE ON THE DRAWINGS, BOTTOM OF EACH OPENING WITHIN MASONRY WALL SHALL RECEIVE AN 8"x8" CAST-IN-PLACE CONCRETE SILL REINFORCED WITH (1/4) EF. AT MID-DEPTH, EACH END OF SILL AT OPENINGS EXCEEDING 5'-0" IN WIDTH SHALL HAVE A (1/2) x 2'-6" CENTER DOUEL (EPOXY 4" INTO ADJACENT MASONRY OR CONCRETE). SILLS AT OPENINGS EXCEEDING 8'-0" IN WIDTH SHALL BE 8"x12" WITH (2) #5 TOP AND BOTTOM AND #3 STIRRUPS AT 48" C/C.

**20. DETAILS AND SECTIONS:**

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL, AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, UNLESS A DIFFERENT DETAIL, OR SECTION, IS SHOWN.

**21. WINDOWS/SLIDING DOORS/OVERERS (SHOP DRAWINGS REQUIRED):**

WINDOWS/SLIDING DOORS/OVERERS WITH CONNECTIONS TO THE STRUCTURE SHALL BE DESIGNED BY THE SPECIALTY ENGINEER FOR LOADS AS PER THE FLORIDA BUILDING CODE (WITH CALCULATIONS). SHALL INCLUDE PLANS AND DETAILS CLEARLY INDICATING DESIGN LOADS, MATERIALS USED, FINISHES, FASTENERS AS WELL AS LOADS IMPOSED BY THE WINDOW/SLIDING GLASS DOOR/OVERER ON THE STRUCTURE SIDES OF ALL SLIDING GLASS DOORS AND FULL-HEIGHT WINDOWS SHALL BE DESIGNED AS MILLIONS AND BE CAPABLE OF SPANNING FULL-HEIGHT WITHOUT ASSISTANCE FROM ADJACENT CONCRETE/MASONRY (ALTHOUGH SUCH MILLIONS MAY BE DETAILED AS FASTENED TO SIDES OF OPENING).

**22. ANCHORING ADHESIVES:**

- ADHESIVE ANCHORS FOR USE IN CONCRETE SHALL:
- A) HAVE BEEN QUALIFIED IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308 FOR CRACKED AND UN-CRACKED CONCRETE RECOGNITION.
  - B) BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS PER ACI 318-II D.2.2.
  - C) BE INSTALLED IN DRY HOLES THAT ARE 1/8" LARGER THAN THE DIAMETER OF THE REINFORCING STEEL OR THREADED ROD UNLESS OTHERWISE NOTED IN THESE PLANS, OR UNLESS OTHERWISE NOTED IN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
  - D) HAVE A MAXIMUM IN-SERVICE SHORT-TERM TEMPERATURE OF 150°F, AND MAXIMUM IN-SERVICE LONG-TERM TEMPERATURE OF 110°F (ACI 318-II D.9.2.1).
- FOR ANCHORING REINFORCING STEEL OR THREADED ROD IN EXISTING CONCRETE USE "HIT-HY 200" BY HILTI, "SET-XP" OR "AT-XP" BY SIMPSON OR EQUAL. OTHER AVAILABLE ADHESIVES ARE MADE BY ITURED HEAD, ULTRA BOND OR FOWERS FASTENERS. DRILLED HOLES SHALL BE CLEANED BEFORE DISPENSING THE ADHESIVE PER THE MPII. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS SHALL BE INSTALLED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM IN ACCORDANCE WITH ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT, AND SHALL REQUIRE CONTINUOUS SPECIAL INSPECTION (ACI 318-II D.9.2.2 AND D.9.2.4).

**23. EXPANSION BLOTS:**

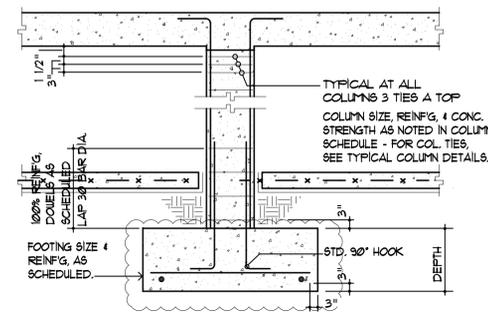
- EXPANSION BOLTS FOR USE IN CONCRETE SHALL:
- A) HAVE BEEN QUALIFIED IN ACCORDANCE WITH ACI 308.2 AND ICC-ES AC108 FOR CRACKED AND UN-CRACKED CONCRETE RECOGNITION.
  - B) BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). EXPANSION BOLTS NOTED IN PLANS SHALL BE "KUIK BOLT TZ" BY HILTI, "STRONG-BOLT 2" BY SIMPSON OR EQUAL. FOR SUBSTITUTION, SUBMIT TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.

**24. HEAVY DUTY SCREW ANCHORS:**

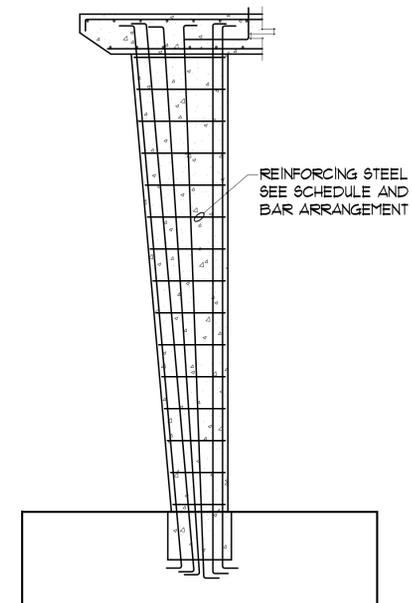
- SCREW ANCHORS FOR USE IN CONCRETE SHALL:
- A) HAVE BEEN QUALIFIED IN ACCORDANCE WITH ICC-ES AC108 FOR CRACKED AND UN-CRACKED CONCRETE RECOGNITION.
  - B) BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). SCREW ANCHORS NOTED IN PLANS SHALL BE "KUIK HUB-EZ" BY HILTI, "TITEN HD" BY SIMPSON OR EQUAL. FOR SUBSTITUTION, SUBMIT TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.

**25. SHOP DRAWINGS:**

NO SHOP DRAWING SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER'S REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING, AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR, AND STAMPED WITH THE CONTRACTOR'S APPROVAL SEAL. ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS, AS A RESULT OF CHECKING AND REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY ENGINEER, AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH SHOP DRAWINGS.



**TYPICAL COLUMN TO FOOTING DETAIL**  
N.T.S.



**DETAIL**  
S-20 SCALE: 3/8"=1'-0"



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P. O. BOX 1409  
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**PROJECT NAME:**

**TRUMAN WATERFRONT PARK**

**PROJECT LOCATION/ADDRESS:**

TRUMAN WATERFRONT PARK  
WEST OF FORT STREET AND THE  
TRUMAN ANNEX DEVELOPMENT,  
NORTH OF KEY WEST NAVAL BASE

**SUB-CONSULTANT INFORMATION:**

**PROFESSIONAL SEAL:**



**SUBMITTAL DESCRIPTION / MILESTONE:**

Permit Set  
September 30, 2015

**REVISIONS:**

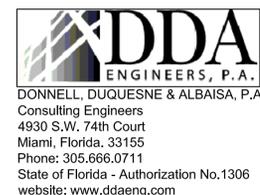
**DRAWING SHEET INFORMATION**

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BATHROOM PAVILION  
GENERAL NOTES

**SHEET NO.**





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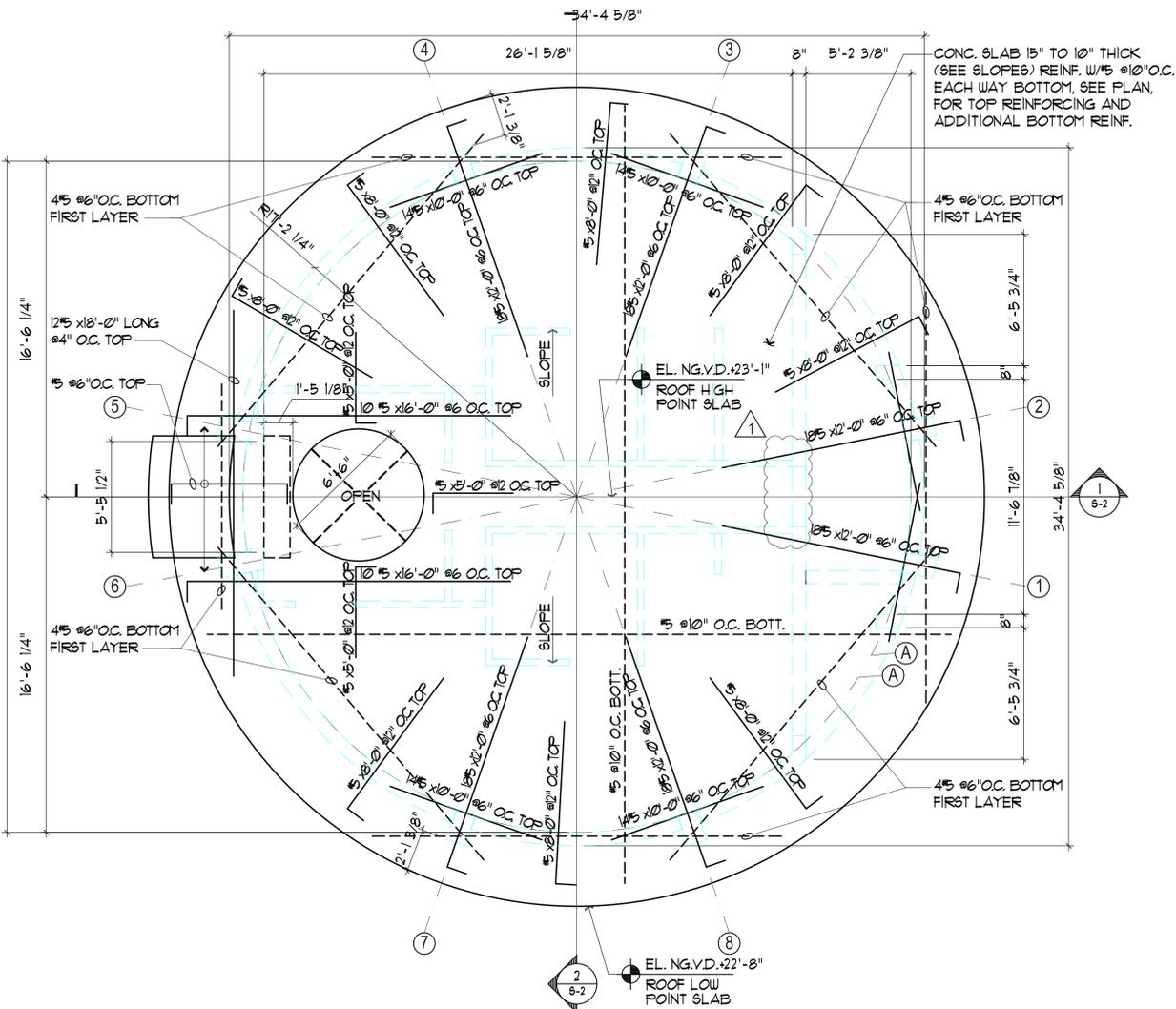
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FLOOR PLAN  
AND SECTIONS

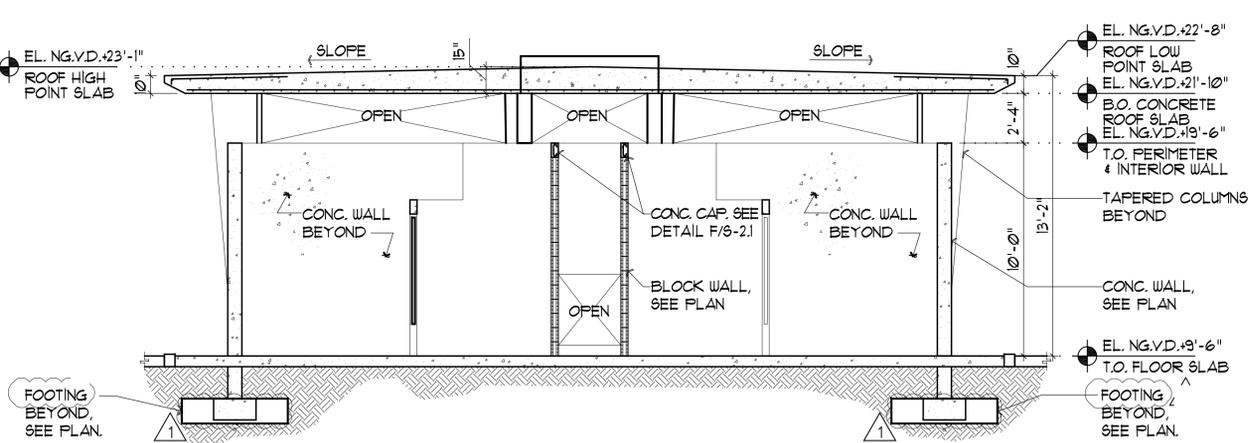
SHEET NO.

**S-1.1**



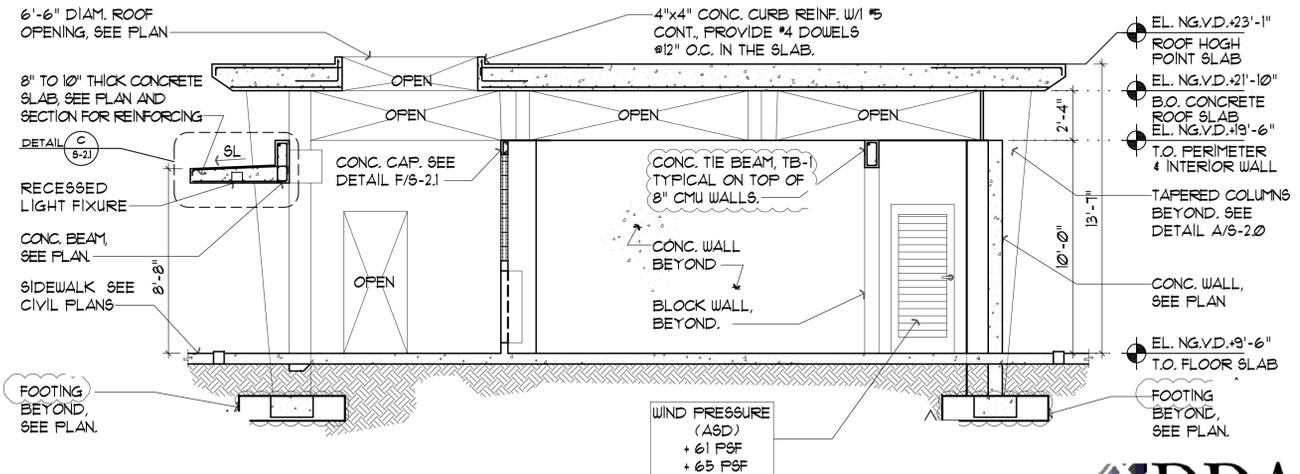
**1 BATHROOM PAVILION - ROOF FRAMING PLAN**

S-1.1 SCALE: 1/4" = 1'-0"



**2 BATHROOM PAVILION - SECTION 2**

S-1.1 SCALE: 1/4" = 1'-0"



**3 BATHROOM PAVILION - SECTION 3**

S-1.1 SCALE: 1/4" = 1'-0"

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PREPARED FOR/OWNER:  
CITY OF KEY WEST, FL  
P. O. BOX 1409  
3140 FLAGLER AVENUE  
KEY WEST, FL 33041



PROJECT NAME:

**TRUMAN WATERFRONT PARK**

PROJECT LOCATION/ADDRESS:  
TRUMAN WATERFRONT PARK  
WEST OF FORT STREET AND THE  
TRUMAN ANNEX DEVELOPMENT,  
NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:

PROFESSIONAL SEAL:



SUBMITTAL DESCRIPTION / MILESTONE:

Permit Set  
September 30, 2015

REVISIONS:

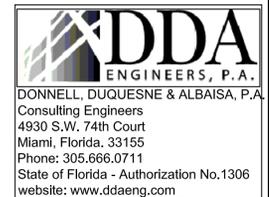
DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041  
SCALE: AS NOTED  
DATE: September 30, 2015  
DRAWN BY: UT  
CHECKED BY: TO

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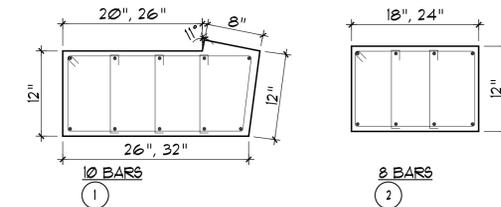
BATHROOM PAVILION  
SCHEDULES AND DETAILS

SHEET NO.



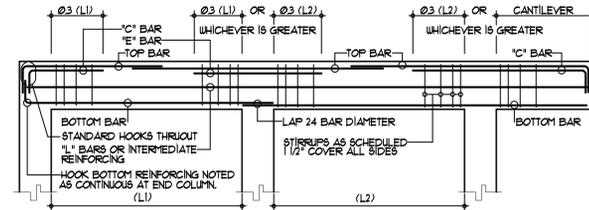
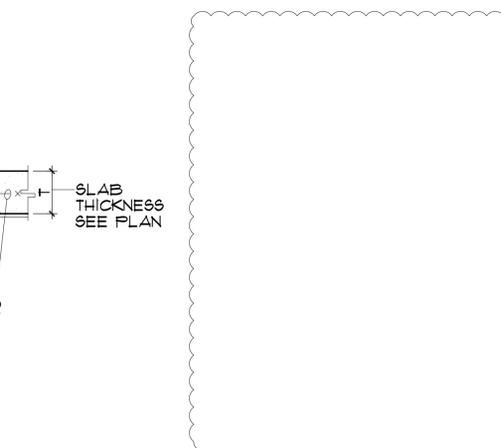
COLUMN SCHEDULE				
MARK	SIZE (IN)	REINFORCING		REMARKS
		VERTICAL	STIRRUPS	
①	12"x26"/32"	10-#6	#3@12"/c/c	SEE DETAIL A/5-20 AND BAR ARRANGEMENT
②	12"x18"/24"	8-#6	#3@12"/c/c	SEE DETAIL A/5-20 AND BAR ARRANGEMENT
(C)	4'x8"	2-#5	#3@8" HAIRPINS	TIE COLUMN

**COLUMN BAR-ARRANGEMENT DETAILS**



BLOCK WALL SCHEDULE				
MARK	THICKNESS	REINFORCEMENT		REMARKS
		VERTICAL	HORIZONTAL	
BW-532	8"	#5 @ 32"	9 GA LADDER TYPE #16"	

CONCRETE WALL SCHEDULE				
MARK	SIZE	VERTICAL REINFORCING	HORIZONTAL REINFORCING	REMARKS
W-1	8"	#4 @ 10" c/c	#4 @ 12" c/c	ALTERNATIVE TO W-1 IS A BLOCK WALL TYPE BW-532 WITH TB-1 AT TOP



**TYPICAL BEAM DIAGRAM**

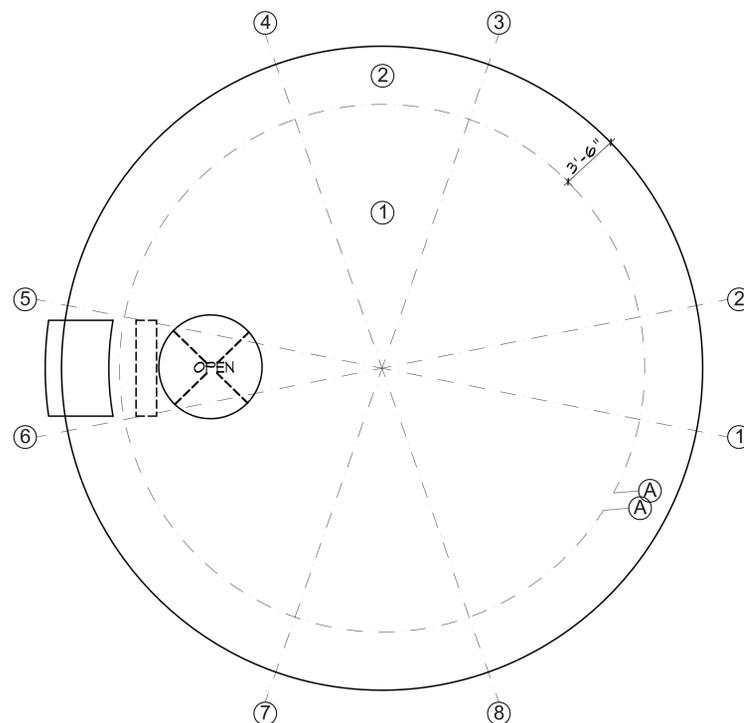
N.T.S.

NOTES:

- 1- "C" BARS ARE TOP BARS AT NON-CONTINUOUS ENDS.
- 2- "E" BARS ARE TOP BARS OVER RIGHT INTERIOR SUPPORTS.
- 3- TOP BARS CALLED FOR AS CONTINUOUS, WHEN SPICED, SHALL BE SPICED IN THE MIDDLE THIRD OF THE SPAN.
- 4- REFER TO INTERMEDIATE BEAM REINFORCING FOR ADDITIONAL REINFORCING.
- 5- PROVIDE AT ALL NON-BEARING BLOCK WALLS, A TIE-BEAM 8"x12" (MIN) WITH 2-#5 TOP AND BOTTOM (1) CONT. #3 TIES, 4 AT 12" c/c EACH END, BAL. AT 48" c/c. TIE-BEAMS MUST BE DOUBLED INTO WALLS AT EACH END, AT INTERSECTIONS, AT INTERMEDIATE POINTS.
- 6- PROVIDE 2-#5 CORNER BARS (EXTEND 30" IN EACH DIRECTION FROM CORNER) AT ALL NON-BEARING BLOCK WALLS.
- 7- "L" BARS ARE CONTINUOUS, EQUALLY SPACED AT EACH SIDE OF BEAM.

**WIND LOAD PRESSURES FOR ROOFING DESIGN**

ZONE	"A"	PRESSURE
①	3'-6"	-44 P.S.F.
②	3'-6"	-19 P.S.F.

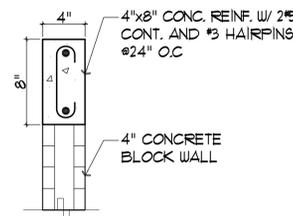


**ROOF UPLIFT DIAGRAM**

6-21 NO SCALE

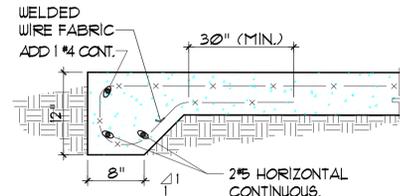
BEAM SCHEDULE										
MARK	TOP OF BEAM ELEV	SIZE (in)	REINFORCING					STIRRUPS No.	SPACING (in)	REMARKS
			B	T	C	E	L			
B-1	+9'-2"	12"x24"	3-#5	3-#5	-	-	1-#5	3 @	#6" c/c	HOOKED INTO COLUMNS AT EACH END
TB-1	+10'-0"	8"x12"	2-#5	2-#5				3 @	#24" o/c	TIE BEAM

CONCRETE FOOTING SCHEDULE			
MARK	SIZE	REINFORCEMENT	REMARKS
Ⓐ	5'-0" x 5'-0" x 1'-2"	(5)-#5 EACH WAY BOTTOM	
WF-24	24" x 12"	(3)-#5 CONT. LONG WAY. #4 @18" SHORT WAY.	WALL FOOTING
WF-16M	16" x 12"	(2)-#5 CONT.	MONOLITHIC WITH THE SLAB ON GRADE



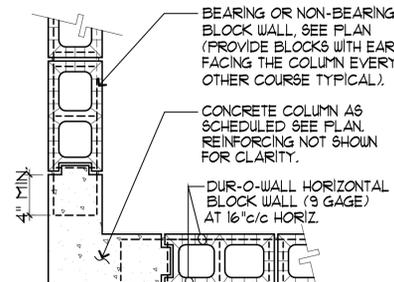
**F DETAIL**

6-21 NO SCALE



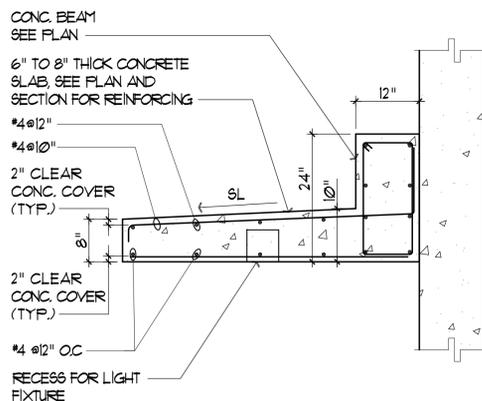
**E DETAIL**

6-21 NO SCALE



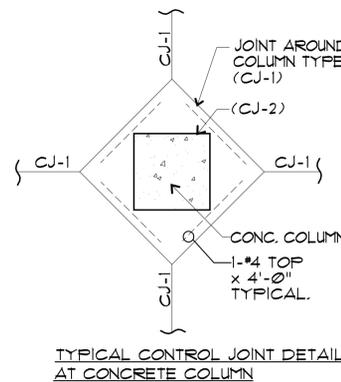
**D DETAIL**

6-21 NO SCALE



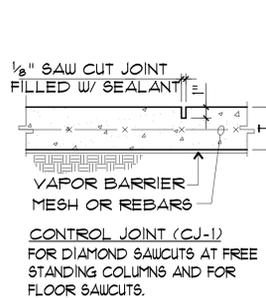
**C DETAIL**

6-21 NO SCALE



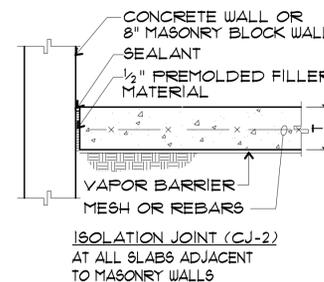
**B DETAIL**

6-21 NO SCALE



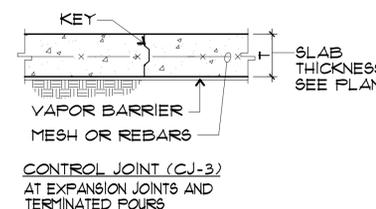
**A DETAIL**

6-21 NO SCALE



**G DETAIL**

6-21 NO SCALE



**H DETAIL**

6-21 NO SCALE



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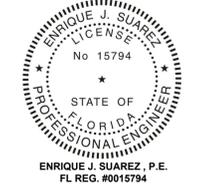
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FL REG. #0014104

PROFESSIONAL SEAL:



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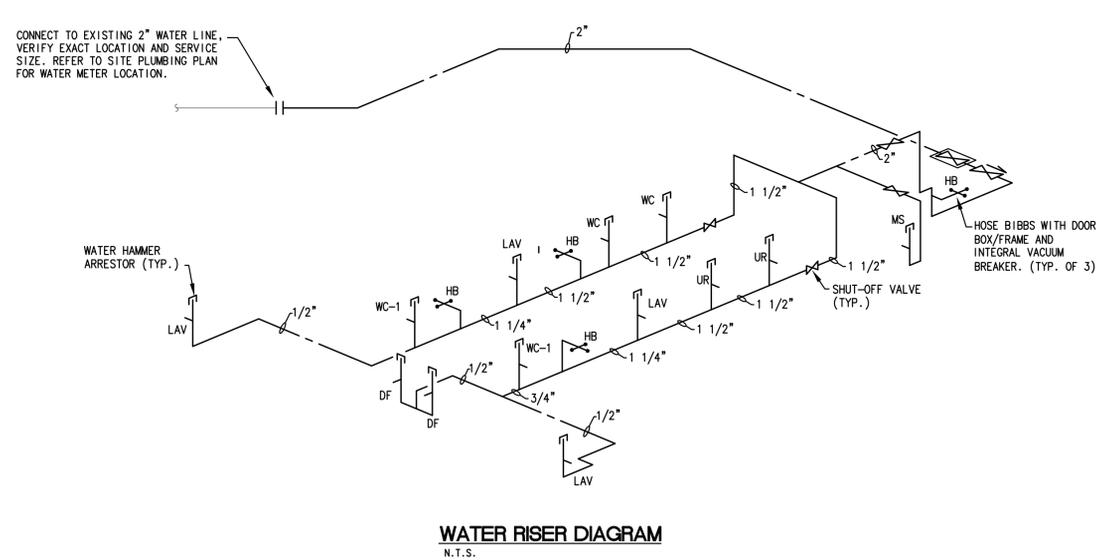
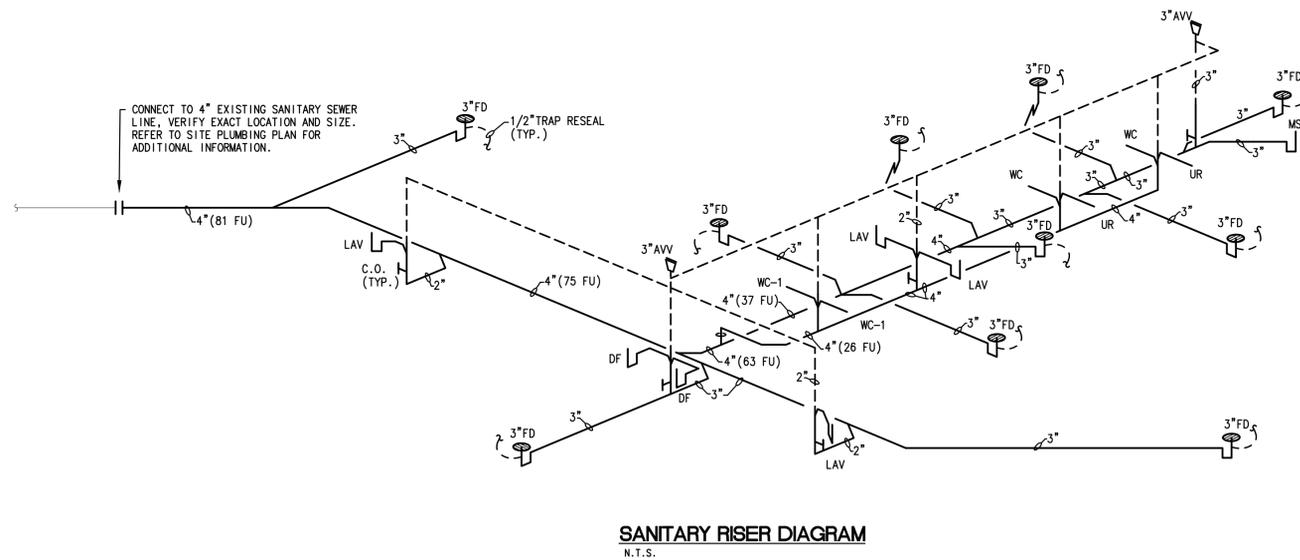
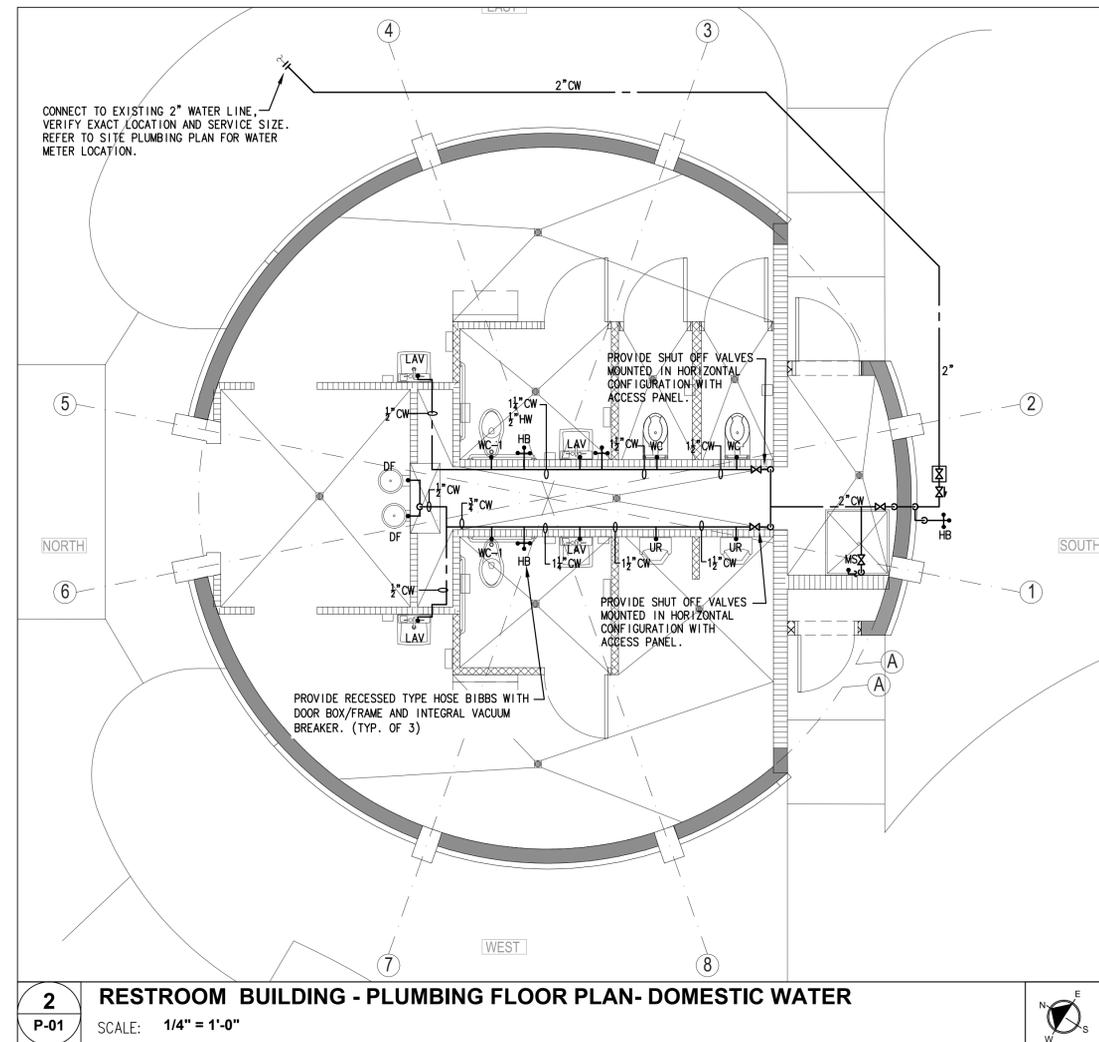
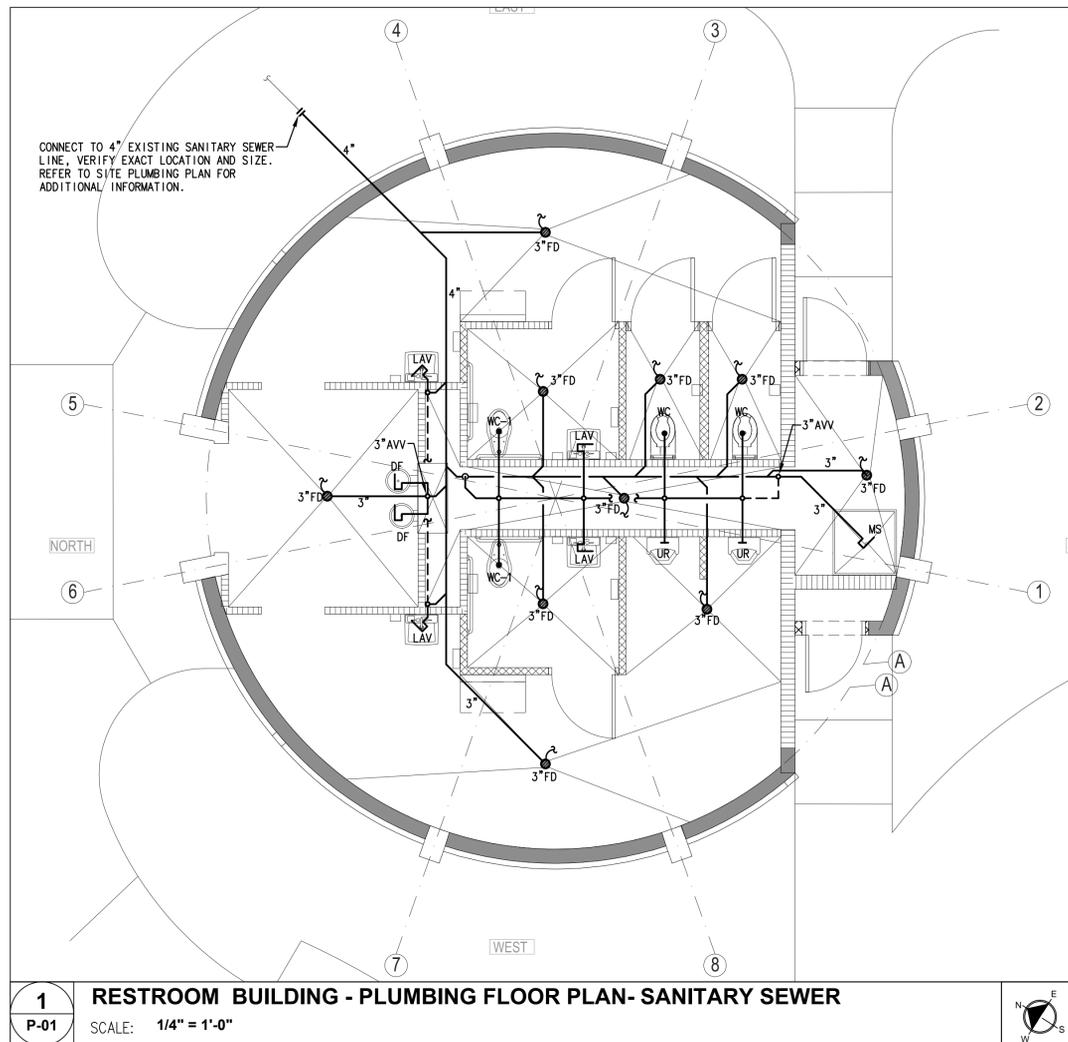
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CHECKED BY:

DRAWING TITLE:  
**RESTROOM PAVILION  
PLUMBING FLOOR PLAN**

SHEET NO.

**P-01**



PLUMBING FIXTURE SCHEDULE					
MARK	FIXTURE	MANUFACTURER & MODEL	OW HW WASTE	TRAP	REMARKS
WC	WATER CLOSET	(SELECTED BY ARCHITECT)	1" — 4"	INTEGRAL	
WC-1	WATER CLOSET (HANDICAP)	(SELECTED BY ARCHITECT)	1" — 4"	INTEGRAL	
LAV	LAVATORY	(SELECTED BY ARCHITECT)	1/2" 1/2" 1-1/2"	1-1/4"	
LAV-1	LAVATORY (HANDICAP)	(SELECTED BY ARCHITECT)	1/2" 1/2" 1-1/2"	1-1/4"	
UR	URINAL	(SELECTED BY ARCHITECT)	3/4" — 2"	INTEGRAL	
MS	MOP SINK	(SELECTED BY ARCHITECT)	1/2" 1/2" 3"	3"	
DF	DRINKING FOUNTAIN	(SELECTED BY ARCHITECT)	1/2" — 1-1/4"	1-1/4"	
HB	HOSE BIBB FOUNTAIN	(SELECTED BY ARCHITECT)	3/4" — —	—	

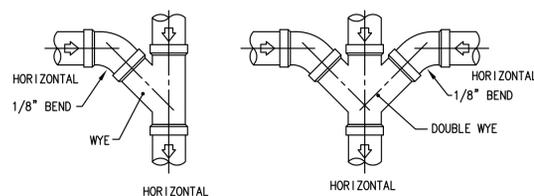
**NOTE:**

- REFER TO ARCHITECTURAL DRAWING A# FOR PLUMBING FIXTURES AND VALVES.
- ALL FIXTURES TO COMPLY WITH WATER CONSUMPTION RATES (FBC, PLUMBING TABLE 604.4).
- ALL FIXTURES TO COMPLY WITH (FBC, PLUMBING CHAPTER 4, SECTIONS 406 THRU 421).

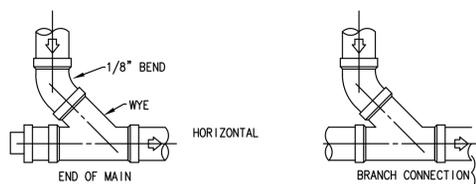
PLUMBING SYMBOL LEGEND	
SYMBOL	DESCRIPTION
—	SANITARY AND RAINWATER LINES
---	VENT LINE
SD	STORM DRAIN LINE
---	CONDENSATE LINE
C	COLD WATER LINE
---	HOT WATER LINE
---	HOT WATER RETURN LINE
F.C.O.	FLUSH CLEAN OUT
F.D.	FLOOR DRAIN
F.F.D.	FUNNEL FLOOR DRAIN
A.D.	AREA DRAIN
D.D.	DECK DRAIN
G.D.	GARAGE DRAIN
P.D.	PLANTER DRAIN
R.D.	ROOF DRAIN
C.O.	CLEAN OUT
VTR	VENT THRU ROOF
RWL	RAIN WATER LEADER
H.B.	HOSE BIBB
ABV	ABOVE
TYP	TYPICAL
DN	DOWN
—	SHUT OFF VALVE
—	CHECK VALVE
—	PRESSURE REDUCING VALVE
—	BALANCING VALVE
⊗	FLOOR DRAINS
⊗	FLOOR SINK
⊗	FLUSH CLEAN OUT
⊗	HOSE BIBB
—	GAS LINE

PLUMBING SPECIFICATIONS	
<b>A. RAINWATER, SANITARY WASTE AND VENT PIPING:</b>	<ol style="list-style-type: none"> <li>SHALL BE SPUN SERVICE WEIGHT CAST IRON NO-HUB PIPE AND FITTINGS FOR ABOVE GROUND, AND PUSH-ON JOINT WITH NEOPRENE GASKET FOR UNDERGROUND.</li> <li>ALTERNATE MATERIAL: PVC SCHEDULE 40, DW/PW, PRESSURE RATED TYPE PIPING WHEN NOT IN A/C RETURN AIR PLENUM. (NO FOAM CORE ALLOWED).</li> <li>ALL SANITARY HORIZONTAL PIPING SHALL BE SLOPED IN ACCORDANCE WITH FLORIDA BUILDING CODE REQUIREMENTS.</li> </ol>
<b>B. DOMESTIC WATER PIPING:</b>	<ol style="list-style-type: none"> <li>OW PIPING SHALL BE COPPER TYPE "L" WITH BRONZE OR WROUGHT COPPER SOLDER JOINT FITTINGS. JOINTS WITH 95/5 SOLDER, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.</li> <li>INSTALL CAPPED AIR CHAMBER AND MECHANICAL SHOCK ABSORBERS WHERE SHOWN ON WATER RISERS. CHAMBERS SHALL NOT BE LESS THAN 1/4" AND 18" HIGH.</li> <li>PROVIDE DIELECTRIC ISOLATION BETWEEN CONTACT OF DISSIMILAR METALS. C.P. ESCUTCHEON PLATES REQUIRED ON ALL WALL PENETRATIONS.</li> <li>PROVIDE SHUT-OFF VALVES AT EACH PLUMBING FIXTURE WATER SUPPLY.</li> </ol>
<b>C. HOT WATER AND HOT WATER RETURN PIPING INSULATION:</b>	<ol style="list-style-type: none"> <li>3/4" INCH THICK GLASS FIBER MOLDED INSULATION WITH FACTORY APPLIED FRJ JACKET WITH LONGITUDINAL LAP AND BUTT JOINT STRIPS WITH SELF SEALING ADHESIVE.</li> <li>PROVIDE DIELECTRIC ISOLATION BETWEEN CONTACT OF DISSIMILAR METALS.</li> </ol>
<b>D. PIPE HANGERS AND SUPPORTS:</b>	<ol style="list-style-type: none"> <li>PROVIDE ADJUSTABLE HANGERS, INSERTS AND SUPPLEMENTARY STEEL AS REQUIRED FOR PROPER SUPPORT OF PIPE LINES.</li> </ol>
<b>F. CLEANOUTS:</b>	<ol style="list-style-type: none"> <li>CLEANOUTS SHALL BE PROVIDED AND INSTALLED AT POINTS INDICATED BY "C.O." AND "F.C.O." ON DRAWINGS.</li> <li>CLEANOUT COVERS: <ul style="list-style-type: none"> <li>WALLS — JOSAM 8600-SS</li> <li>RESILIENT FLOORS — JOSAM 8480 FERRULE WITH 8640.</li> <li>CONCRETE FLOORS — JOSAM 8360</li> </ul> </li> </ol>
<b>G. MISCELLANEOUS PRODUCTS:</b>	<ol style="list-style-type: none"> <li>FLOOR DRAINS <ul style="list-style-type: none"> <li>RESTROOMS — JOSAM 30003-5A WITH NIKALOY TOP AND 1/4" PRIMER TAP.</li> <li>EQUIPMENT ROOMS JOSAM 30004-8A WITH NIKALOY TOP AND 1/4" PRIMER TAP.</li> </ul> </li> <li>AREA DRAINS (A.D.): JOSAM 23000 SERIES 14x SW. PROMENADE DRAIN WITH HEELPROOF, NICKEL-ALLOY GRATE.</li> <li>ROOF DRAINS (R.D.): JOSAM 2100 SERIES ROOF DRAIN.</li> </ol>
<b>I. EXECUTION:</b>	<ol style="list-style-type: none"> <li>ALL WATER PIPING SHALL BE TESTED AT 100 PSIG, STERILIZED AND FLUSHED BEFORE CONNECTION TO BUILDING SYSTEMS.</li> <li>SEE SPECIFICATION BOOK FOR ADDITIONAL DETAILED SPEC'S.</li> </ol>

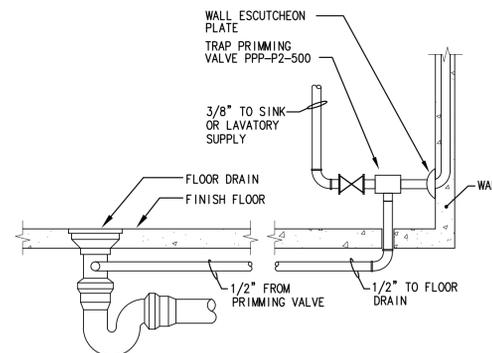
MAX FLOW RATES AND CONSUMPTIONS FOR PLUMBING FIXTURES AND FITURE FITTINGS AND APPLIANCES	
PLUMBING FIXTURE OR FIXTURE FITTING	MAX FLOW RATE OR QUANTITY
LAVATORY, PRIVATE	1.5 GPM @ 60PSI
LAVATORY, PUBLIC (METERING)	0.25 GAL/CYCLE
LAVATORY, PUBLIC (OTHERS)	0.5 GPM @ 60PSI
SINK FAUCET	1.5 GPM @ 60PSI
URINAL	WATERLESS OR (0.5 GAL/FLUSH)
WATER CLOSET	1.28 GAL/FLUSH



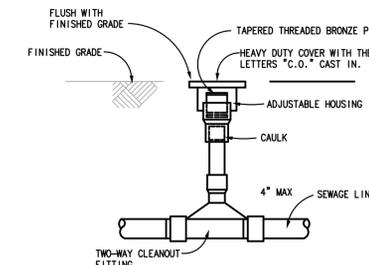
**TYPICAL SANITARY AND STORM DRAIN LINE CONNECTION WHEN FLOW DIRECTION IS HORIZONTAL TO HORIZONTAL.**  
N.T.S.



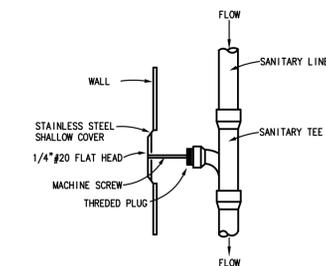
**TYPICAL SANITARY AND STORM DRAIN LINE CONNECTION WHEN FLOW DIRECTION IS VERTICAL TO HORIZONTAL.**  
N.T.S.



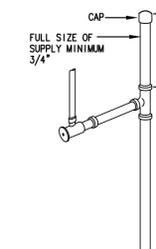
**SINGLE FLOOR DRAIN TRAP RESEAL FROM SINK OR LAVATORY**  
N.T.S.



**TWO WAY FLUSH CLEANOUT DETAIL**  
N.T.S.



**WALL CLEANOUT DETAIL**  
N.T.S.



**TYPICAL WATER HAMMER ARRESTOR DETAIL**  
N.T.S.



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CHECKED BY:

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**PLUMBING NOTES, DETAILS AND SCHEDULES.**

SHEET NO.

**P-02**



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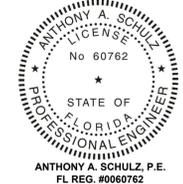
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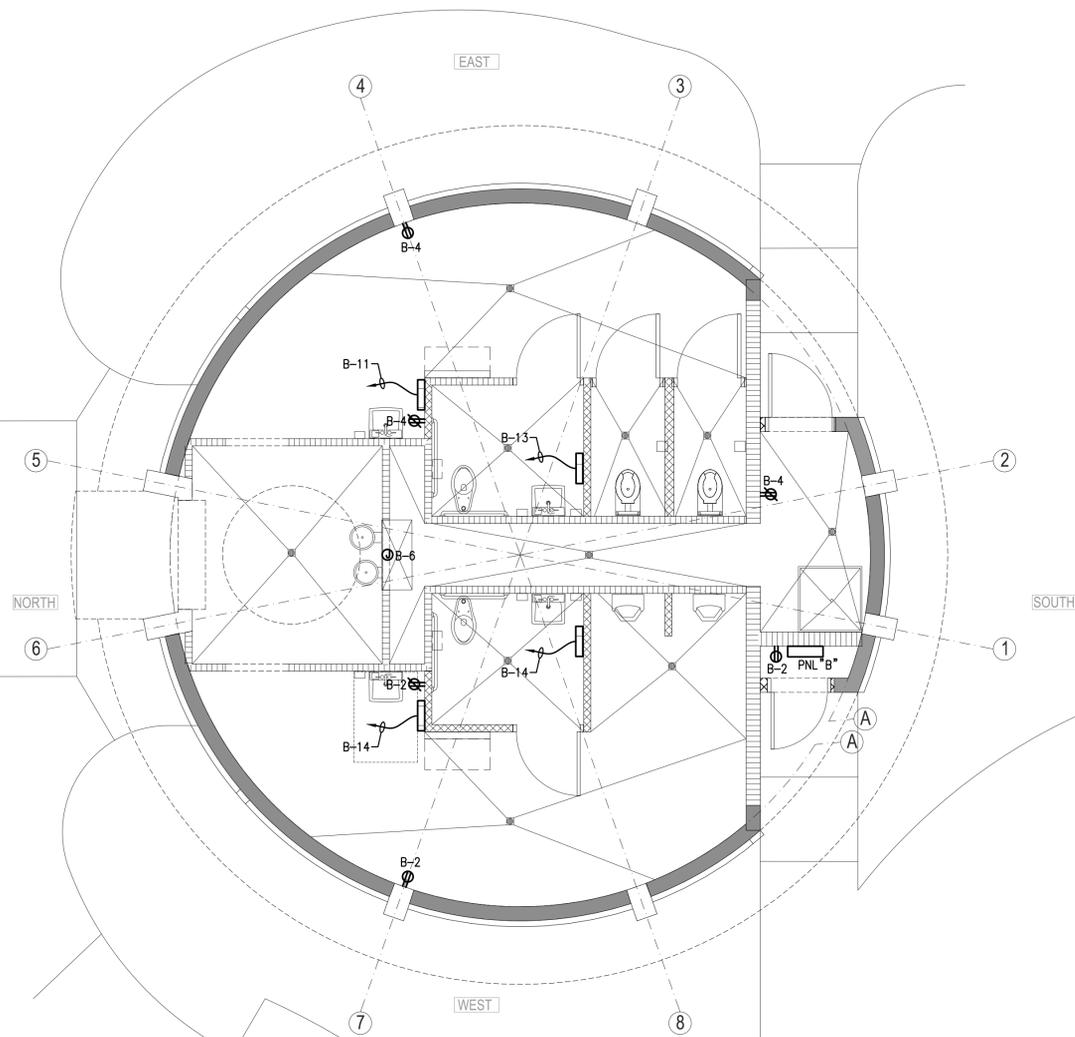
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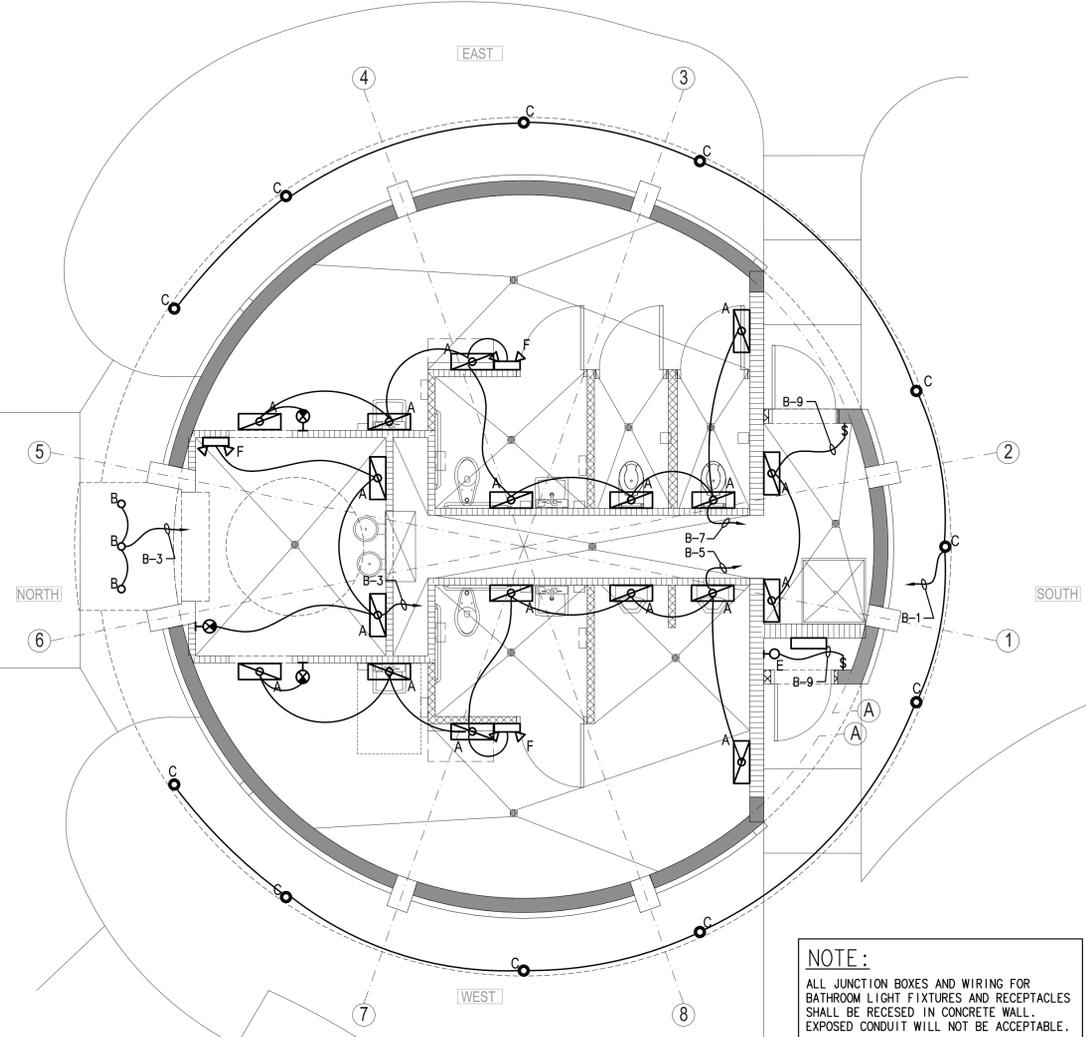
DRAWING TITLE:  
**RESTROOM PAVILION  
POWER AND  
LIGHTING PLAN**

SHEET NO.

**E-01**



**1 RESTROOM BUILDING - POWER FLOOR PLAN**  
E-01 SCALE: 1/4" = 1'-0"



**2 RESTROOM BUILDING - LIGHTING FLOOR PLAN**  
E-01 SCALE: 1/4" = 1'-0"

**NOTE:**  
ALL JUNCTION BOXES AND WIRING FOR  
BATHROOM LIGHT FIXTURES AND RECEPTACLES  
SHALL BE RECESSED IN CONCRETE WALL.  
EXPOSED CONDUIT WILL NOT BE ACCEPTABLE.

CIRCUIT DESIGNATION		PCB	AMP	VOLT	AMP.	WIRE / COND. SIZE	#	#	WIRE / COND. SIZE	VOLT	AMP.	WIRE / COND. SIZE	CIRCUIT DESIGNATION
EXTERIOR LIGHTS		1/20	600			2#12 & 1#26 - 1/2"	1	2	2#12 & 1#26 - 1/2"	540		1/20	RECEPTACLE
EXTERIOR LIGHTS					500		3	4	2#12 & 1#26 - 1/2"		540	1/20	RECEPTACLE
LIGHTS WOMENS ROOM			400				5	6	2#12 & 1#26 - 1/2"	600		1/20	DRINKING FOUNTAIN
LIGHTS MENS ROOM			400				7	8				1/20	SPARE
LIGHTS			300				9	10				1/20	SPARE
HAND DRYER				1725			11	12	2#12 & 1#26 - 1/2"	1725		1/20	HAND DRYER
HAND DRYER				1725			13	14		1725		1/20	HAND DRYER
SPACE		1/-					15	16				1/-	SPACE
							17	18					

PANEL ' B ' (FED FROM LOAD CENTER "LC5") TYPE: NQDD MOUNTING: SURFACE

VOLTAGE: 120/208V, 1Ø, 3W MAIN: 60A M.L.O.

PHASE A VA 5,890 KVA CONNECTED 10,780  
PHASE B VA 4,890 AMP CONNECTED 52

- THRU ASTRONOMIC TIME CLOCK.
- PROVIDE GFI BREAKER.

Type	Luminaire Description	Luminaire Location	Manufacturer and Catalog Number	Associated PDF Files	Volts	Lamp Information No.	Type/Base/Color/CRI	System Watt	Mounting	Finish	Remarks
A	24" LED UP/DN WALL MOUNT	RESTROOM	VISA LIGHTING CV1700 LCW1300 WH	TYPE A.pdf	120	N/A	3900 LUMENS, WHT LED ARRAY, 40K INCLUDED	42	WALL 7' AFF	WHITE	SUITABLE FOR INDOOR USE
B	2.8" DIA. SURFACE LED CYLINDER WITH REMOTE DRIVER	EXTERIOR CANOPY	INTER-LUX E96080-WH	TYPE B.pdf	120	N/A	240 LUMENS, WHT LED ARRAY, 40K INCLUDED	4	SURFACE	WHITE	SUITABLE FOR WET LOCATION
C	4640 18LED YOKE MOUNT WHITE LED ACCENT LIGHT	BLDG EXTERIOR	HYDREL 4640 18LED WHT41K MVOLT NSP YM SMSA18	TYPE C.pdf	MVOLT	N/A	1700 LUMENS, WHT LED ARRAY, 40K INCLUDED	19	IN-GROUND	STAINLESS STEEL	SUITABLE FOR WET LOCATION
D	VANDAL-PROOF LED EXIT SIGN WITH EMERGENCY BATTERY PACK	RESTROOMS	KENALL METDU MW R DT EL	TYPE D.pdf	DUAL	N/A	RED LED ARRAY INCLUDED	2	UNIVERSAL	WHITE	UL924, IP64 SUITABLE FOR WET LOCATION
E	LED WALL BRACKET	ELECTRICAL ROOM	LITHONIA FMML 13 8 40 WL	TYPE E.pdf	120	N/A	1985 LUMENS, WHT LED ARRAY, 40K INCLUDED	28	WALL 7' AFF	WHITE	SUITABLE FOR WET LOCATION
F	TWO HEAD LED EMERGENCY LIGHT	RESTROOMS	KENALL METEL 24N MW 2 12H DT PH	TYPE F.pdf	DUAL	2	12W HALOGEN INCLUDED	28	WALL 7' AFF	WHITE	UL924, IP64 SUITABLE FOR WET LOCATION

