

NEW RESTROOM / PAVILION
AT
JONES' PIER CONSERVATION AREA
FOR
INDIAN RIVER COUNTY PARKS
DIVISION

INDIAN RIVER COUNTY, FLORIDA

FEBRUARY 05, 2019
BID SET

STRUCTURAL ENGINEER
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INDEX OF DRAWINGS

<u>I/O</u>	<u>Dwg. No</u>	<u>Drawing Name</u>
<input checked="" type="checkbox"/>	A0.10	COVER SHEET / INDEX OF DRAWINGS

ARCHITECTURAL DRAWINGS

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<input checked="" type="checkbox"/>	A2.10	FLOOR PLAN, ROOF PLAN
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<input checked="" type="checkbox"/>	A4.10	SECTIONS

STRUCTURAL DRAWINGS

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<input checked="" type="checkbox"/>	S1	STRUCTURAL NOTES
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<input checked="" type="checkbox"/>	S3	ZONES, SECTIONS AND STRUCTURAL DETAILS

MEP DRAWINGS

<u>I/O</u>	<u>Dwg. No</u>	<u>Drawing Name</u>
<input checked="" type="checkbox"/>	EO.1	ELECTRICAL NOTES
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CODE REVIEW FOR A NEW PAVILION/RESTROOM TO LOCATED AT JONE'S PIER, INDIAN RIVER COUNTY, FLORIDA

ARCHITECT'S PROJECT #2018-23.002/2

FEBRUARY 5, 2019

SCOPE OF WORK

The proposed Building will be Single Story with of total area of 1,013.36 sq. ft. It will consist of a covered Pavilion and a single Men's and Women's Toilet Room separated by a Utility Room.

The construction will be stucco finish or concrete masonry units, concrete floor slab with a thickened edge, pre-engineered wood trusses with 5V crimp metal roof over a plywood deck (T-I). The pavilion will be supported by ten (10) 8"x8" WD posts. Utilities include water and electricity only.

REFERENCE CODES

Florida Building Code 2017 - Building
 Florida Building Code 2017 - Accessibility
 Florida Building Code 2017 - Plumbing
 Florida Fire Prevention Code - Sixth Edition

1) **USE AND OCCUPANCY CLASSIFICATION**
 FBC Assembly Group A; A-5; LSC 6.1.2; 12.1.2

2) **SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY**
 FBC CH. 4
 N/A

3) **GENERAL BUILDING HEIGHTS AND AREAS**
 FBC CH. 5

- I) **Building Height and Number of Stories**
 FBC 504, FBC TABLE 504.3
 Maximum Building Height Permitted = 40'
 Actual Building Height = 13'-6"
- II) **Allowable Number of Stories Above Grade Plane**
 FBC TABLE 504.4
 Maximum Number of Stories permitted = U.L.
 Actual Number of Stories = 1
- III) **Building Area**
 FBC 506; FBC TABLE 506.2
 Maximum Building area permitted = U.L.
 Actual Building area = 1,013.36 sq. ft.

IV) **Mixed Use and Occupancy**
 FBC 508; FBC TABLE 508.4
 N/A

V) **Incidental Uses**
 FBC 509; TABLE 509
 N/A

4) **TYPES OF CONSTRUCTION**
 FBC CH.6; FBC 602.5; Type V-B; LSC TABLE 12.1.6; Type V (000)

- I) **Fire-Resistance Rating Requirements for Building Elements (Hours)**
 - a) Bearing Walls (Interior and Exterior) = 0
 - b) Non-Bearing Walls/Partitions = 0
 - c) Roof Construction = 0
- II) **Fire-Resistance Rating Requirements for Exterior Walls Based on Fire Separation Requirements**
 FBC TABLE 602
 North, South, West & East > 30' = 0 Rating

5) **FIRE AND SMOKE PROTECTION FEATURES**
 FBC CH. 7

- I) **Exterior Walls**
 FBC 705
 - a) **Projections**
 FBC 705.2
 The only projections from exterior walls are the 2'-0" exposed roof rafter tails.
 - b) **Maximum Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening Protection**
 FBC TABLE 705.8
 North, South, West & East > 30' = No Limit
 - c) **Concealed Spaces**
 - i) **FBC 718; 718.2**
 Fire blocking not required, main roof structure exposed, not concealed.
 - ii) **Draftstopping in Attics**
 FBC 718.4.1; 718.4.3
 Roof area = 1,013.36 sq. ft. < 3,000 sq. ft. = Not Required

6) **INTERIOR FINISHES**
 FBC CH.8; FBC TABLE 803.11; LSC 12.3.3
 All Interior Walls and Ceilings to comply with the following Table:

Maximum Occupant Load; 800 ÷ 7 = 114

i) **Interior Wall and Ceiling Requirements by Occupancy.**

Group "A-5" Non-Sprinklered					
Interior Exit Stairways, Ramps and Exit Passageways	Corridors and Enclosures for Exit Access Stairways/Ramps		Rooms and Enclosed Spaces		
	Required	Provided	Required	Provided	Required
					C

Group C: Flame Spread Index 76-200
 Smoke Developed Index 0-45

ii) **Interior Floor Finish**
 FBC 804; 804.4.2; LSC 12.3.3.3
 Not less than Class II Critical Radiant Flux.

7) **FIRE PROTECTION SYSTEM**
 FBC CH.9

I) **Automatic Sprinkler Systems**
 FBC CH.9; FBC 903; 903.2.1.5; LSC 12.3.4.1.1
 N/A
 Area 800 sq. ft. < 1,000 sq. ft.
 Occupant Load; 1,013.36 ÷ 145 < 300

II) **Portable Fire Extinguishers**
 FBC 906
 N/A

III) **Fire Alarm and Detection Systems**
 FBC 907; LSC 12.3.4
 N/A
 Occupant Load 114 < 300

8) **MEANS OF EGRESS**
 FBC CH. 10; LSC 12.2

- I) **General Means of Egress**
 FBC 1003; 1003.2
 Means of Egress Ceiling Height: 8'-8" > 7'-6"
- II) **Occupant Load**
 FBC 1004; FBC Table 1004.1.2; LSC TABLE 7.3.1.2; 12.1.7
 Area of Pavilion; 800 sq. ft. ÷ 15 = 54 Occupants
- III) **Means of Egress Sizing**
 FBC 1005; 1005.3.2; LSC 12.2.2.2
 a) No Exit Doors located within the Pavilion.
 b) Remaining three (3) Doors are 36" W x 7'-0" H.
- IV) **Number of Exits and Exit Access Doorways**
 FBC 1006; FBC 1006.2.1
 a) The Pavilion is open on all four (4) sides.
 b) The Men's and Women's Toilet Room and the Utility Room have one Exit and a maximum Travel Distance of 8' < 75' - O.K.
- V) **Means of Egress Illumination**
 FBC 1008; LSC 7.8; 12.2.8

- i. **Illumination Required**
 FBC 1008.2; LSC 7.8; 12.2.8
 The Means of Egress including Exit Discharge will be illuminated at all times during Building Occupancy.
- ii. **Illumination Level Under Normal Power**
 FBC 1008.2.1
 Means of Egress Illumination level shall not be less than 1 Footcandle (11LUX) at the walking surface.
- iii. **Emergency Power for Illumination**
 FBC 1008.3; LSC 7.9; 12.2.9
 An Emergency Power Supply will be provided to illuminate all Means of Egress components. The Emergency Supply will provide power for a minimum of 90 minutes and will consist of storage batteries, Unit Equipment or an on-site Generator.

VI) **Accessible Means of Egress**
 FBC 1009; FBC 2017 - Accessibility

- a) **Accessible Routes**
 FBC 206
 Provide an accessible route from Parking areas to the covered Pavilion.
- b) **Parking Spaces**
 FBC 208
 See Civil Engineers Drawings.
- c) **Drinking Fountains**
 One (1) "Hi-Lo" combination provided.
- d) **Toilet Facilities and Bathing Facilities**
 FBC 213; 603
 Both Toilet Rooms comply with fixtures clear space requirements and maneuverability standards.
- e) **Doors, Gates and Turnstiles**
 FBC 1010; 1010.1.1; 1010.1.2; 1010.1.3
 i) Door sizes: 3'-0" W x 7'-0" H;
 ii) Door swing in Direction of Travel;
 iii) Side hinged Door type;
 iv) Door opening force:
 Not to exceed 5lbs. (22N);
 Door release @ 15 lbs. (67N) force
 Set in motion 30 lbs. (133N) force.

f) **Exit Signs**
 FBC 1013
 All Exit Access Doors to be clearly marked with an "Exit Sign".

g) **Exit Access**
 FBC 1016
 All Exit Access points lead directly to the Building exterior.

h) **Exit Access Travel Distance**
 FBC 1017; TABLE 1017.2; LSC 7.5
 Maximum Exit Access Travel Distance permitted = 200'
 Maximum Travel Distance to an Exit (See Life Safety Plan) = 43'

i) **Corridors**
 FBC 1020; LSC 12.3.6
 N/A

j) **Exit Discharge**
 FBC 1028
 All Exit discharge directly to the exterior of the Building.

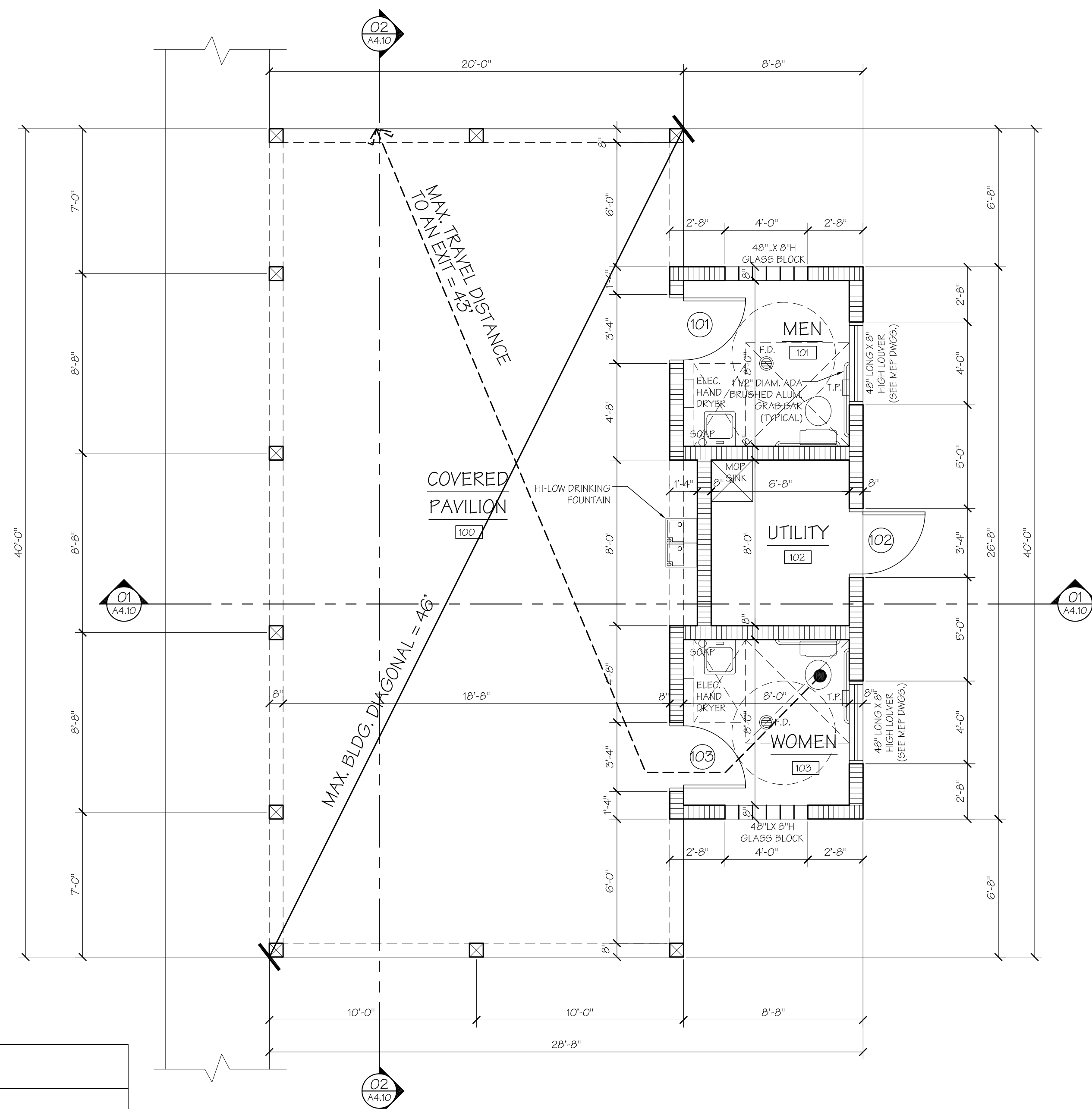
k) **Assembly**
 FBC 1029; LSC 12.2.3.6
 N/A

9) **Minimum Plumbing Fixture Count**
 FBC Table

Occupant Content: 54 Persons
 Potty Parity: 27 Male / 27 Female

Fixtures
 Water Closets: Male: 1 per 75;
 Female: 1 per 40;
 Lavatory: 1 per 150;
 Drinking Fountains: 1;
 Service Sinks: 1

	PLUMBING FIXTURE COUNT (OCCUPANCY A-5)							
	Water Closets		Lavatories		Drinking Fountains		Service Sinks	
	Required	Provided	Required	Provided	Required	Provided	Required	Provided
Male	1	1	1	1	1	1	1	1
Female	1	1	1	1	-	-	-	-



CONSTRUCTION LEGEND

[Pattern]	NEW 8" CONCRETE MASONRY UNITS INFILL
[Symbol]	8x8 WOOD POST
[Pattern]	48" LONG X 8" HIGH GLASS BLOCK @ 6" HEAD HEIGHT.
[Pattern]	48" LONG X 8" HIGH LOUVER @ 6" HEAD HEIGHT (SEE MEP DWGS.)

O1 LIFE SAFETY PLAN

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

Project:

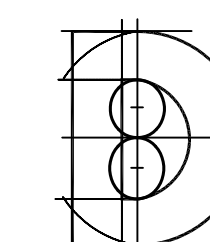
New Restroom/Pavillion
 at
 Jones' Pier
 for
 Indian River County Parks
 Division
 Indian River County, Florida

Key Plan:

Issues:

No.	Date:	Description:
A.	02/05/19	BID SET

Architect:



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Consultant:

Drawing Title:

CODE REVIEW / LIFE SAFETY

Reference North



Dwn: MT
 Chd: XREF
 AJD
 Project No.: 2018-23.002
 Sheet No.: .

Cert. No.: 12456

Date Signed:

A1.10

Project:

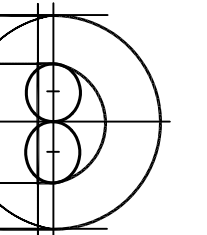
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B.	02/05/19	BID SET

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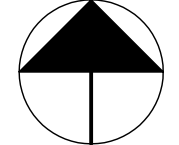
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PLANS

Reference North

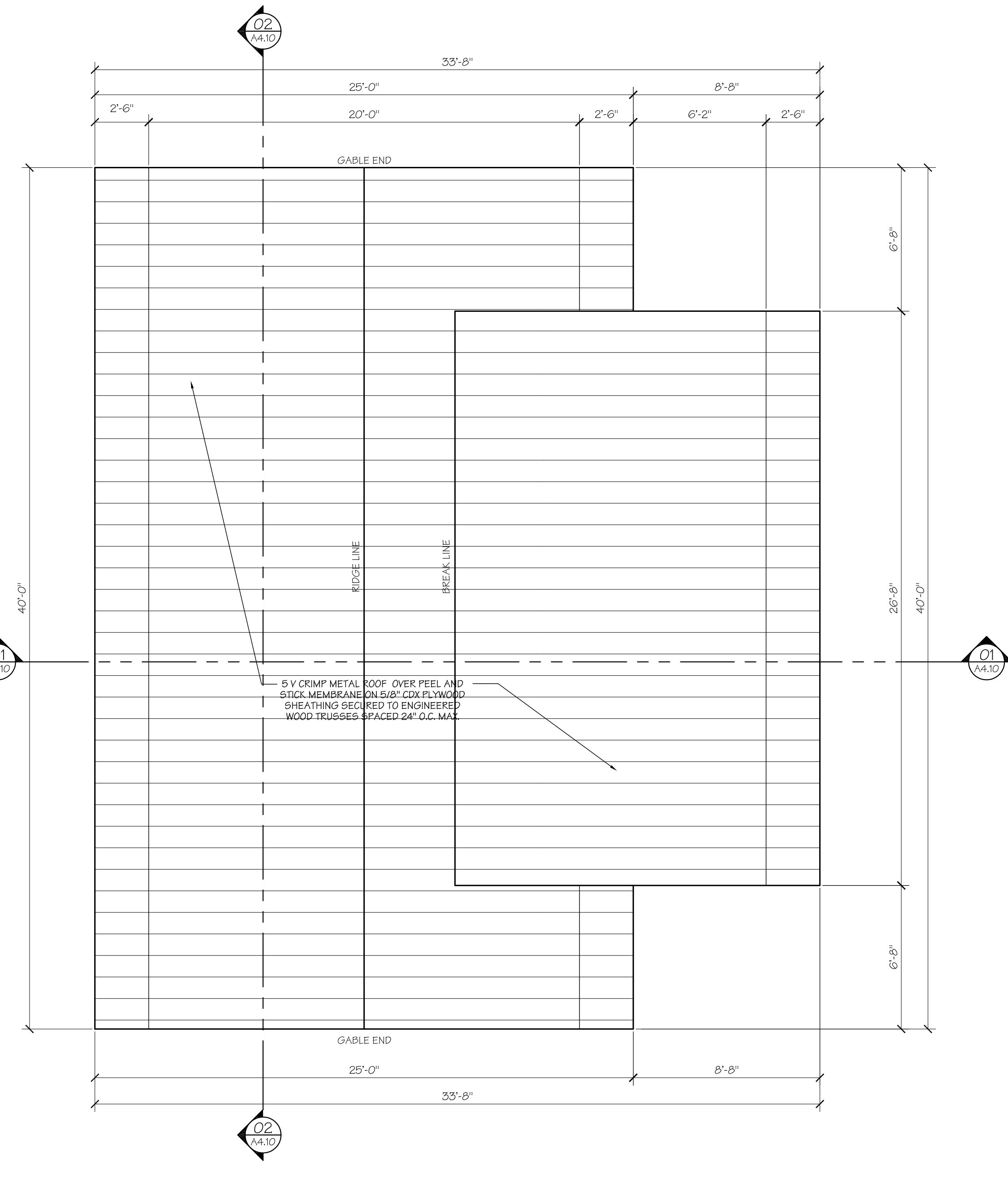
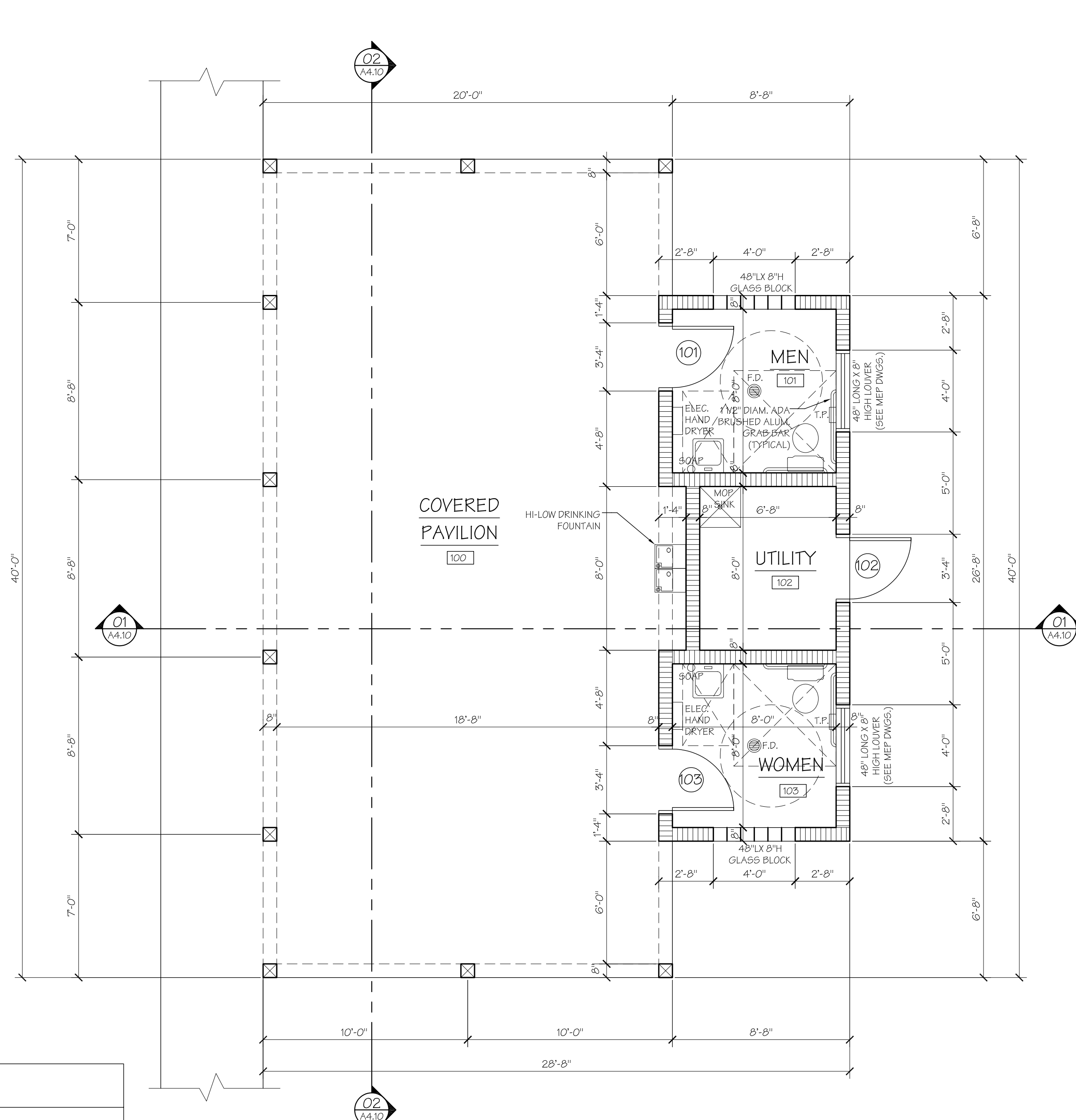


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Chd:	Plot File:
AJD	Sheet No.:
Project No.:	
2018-23.002	

Cert. No.: 12456

Date Signed:

A2.10



CONSTRUCTION LEGEND

	NEW 8" CONCRETE MASONRY UNITS INFILL
	8x8 WOOD POST
	48" LONG X 8" HIGH GLASS BLOCK @ 6'-8" HEAD HEIGHT.
	48" LONG X 8" HIGH LOUVER @ 6'-8" HEAD HEIGHT (SEE MEP DWGS.)

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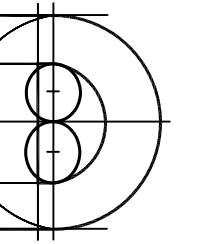
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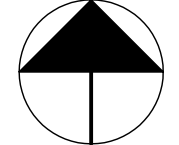
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Drawing Title:

ELEVATIONS

Reference North



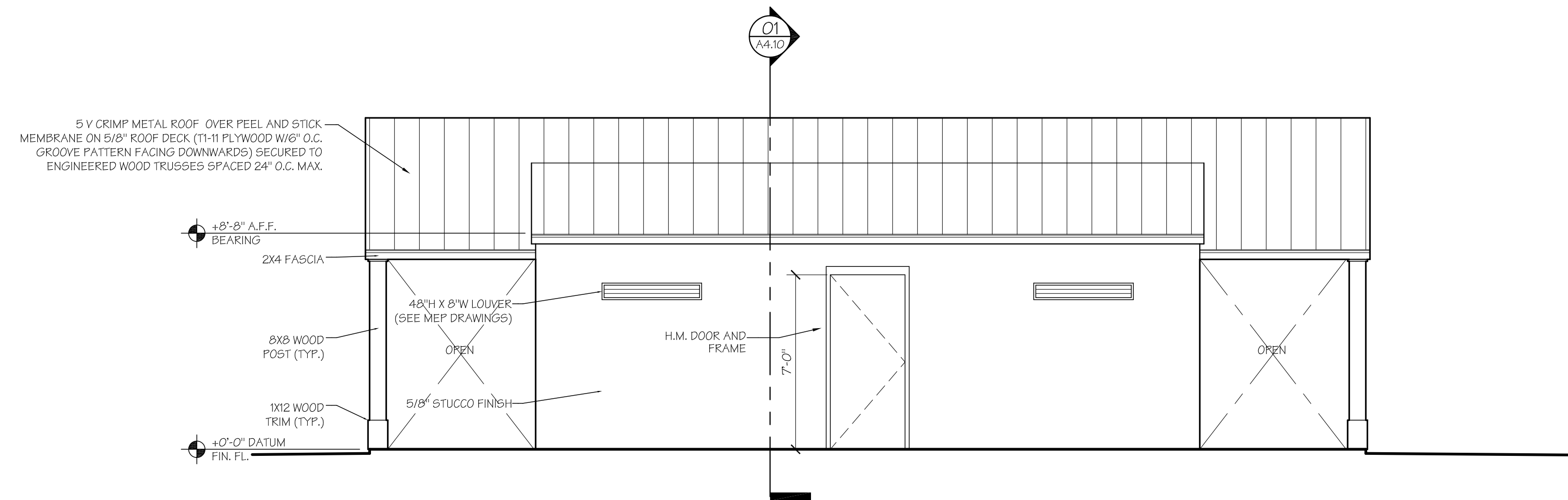
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Sheet No.:	

Cert. No.: 12456

Date Signed:

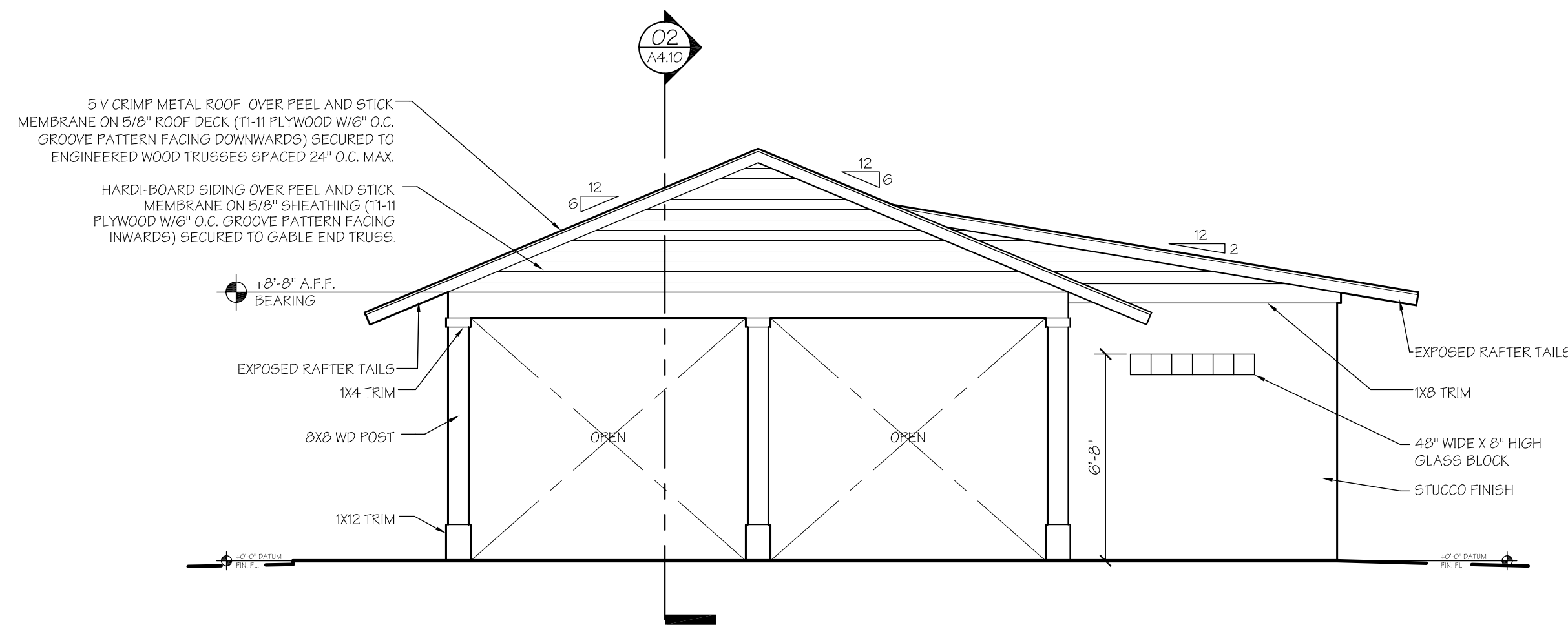
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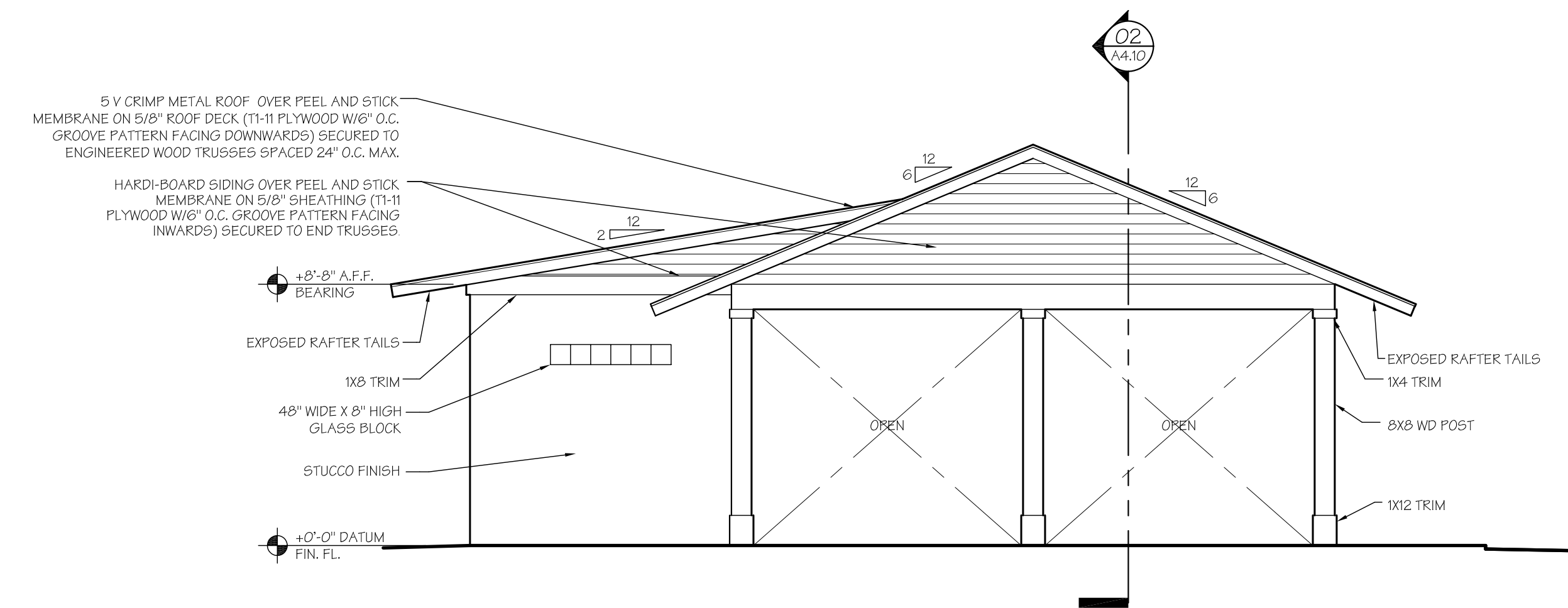
04 REAR ELEVATION

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



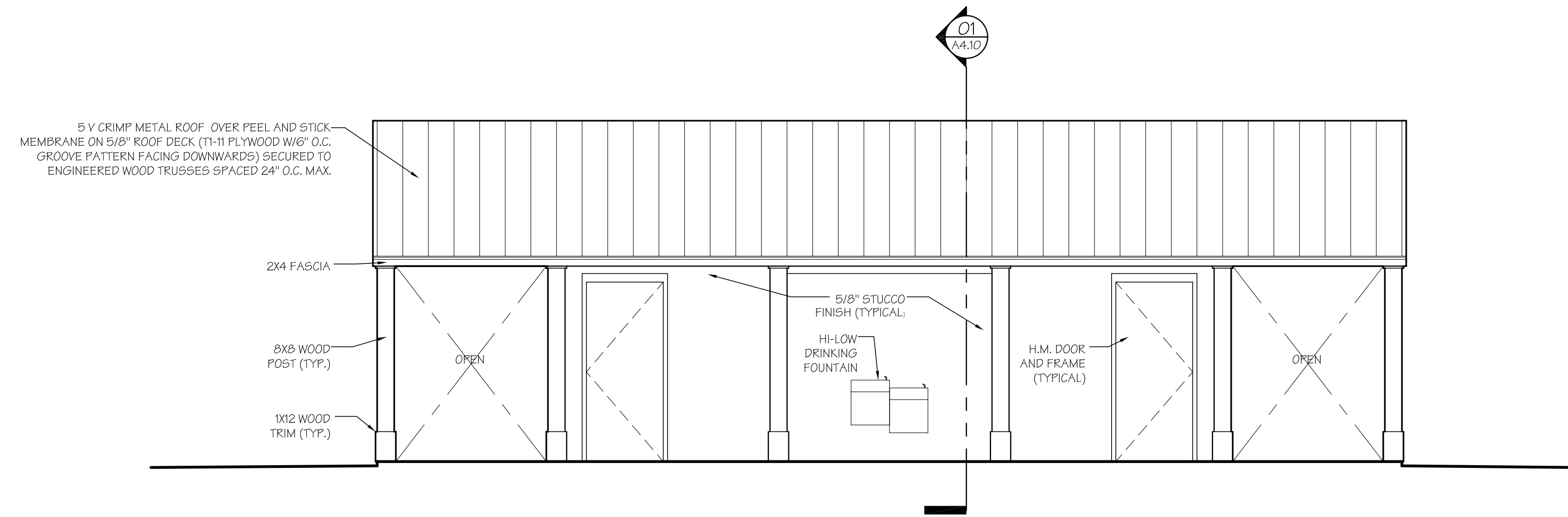
02 LEFT SIDE

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



03 RIGHT SIDE

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



01 FRONT ELEVATION

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

Project:

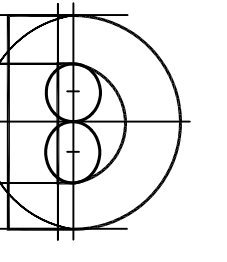
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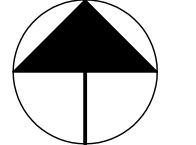
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SECTIONS

Reference North



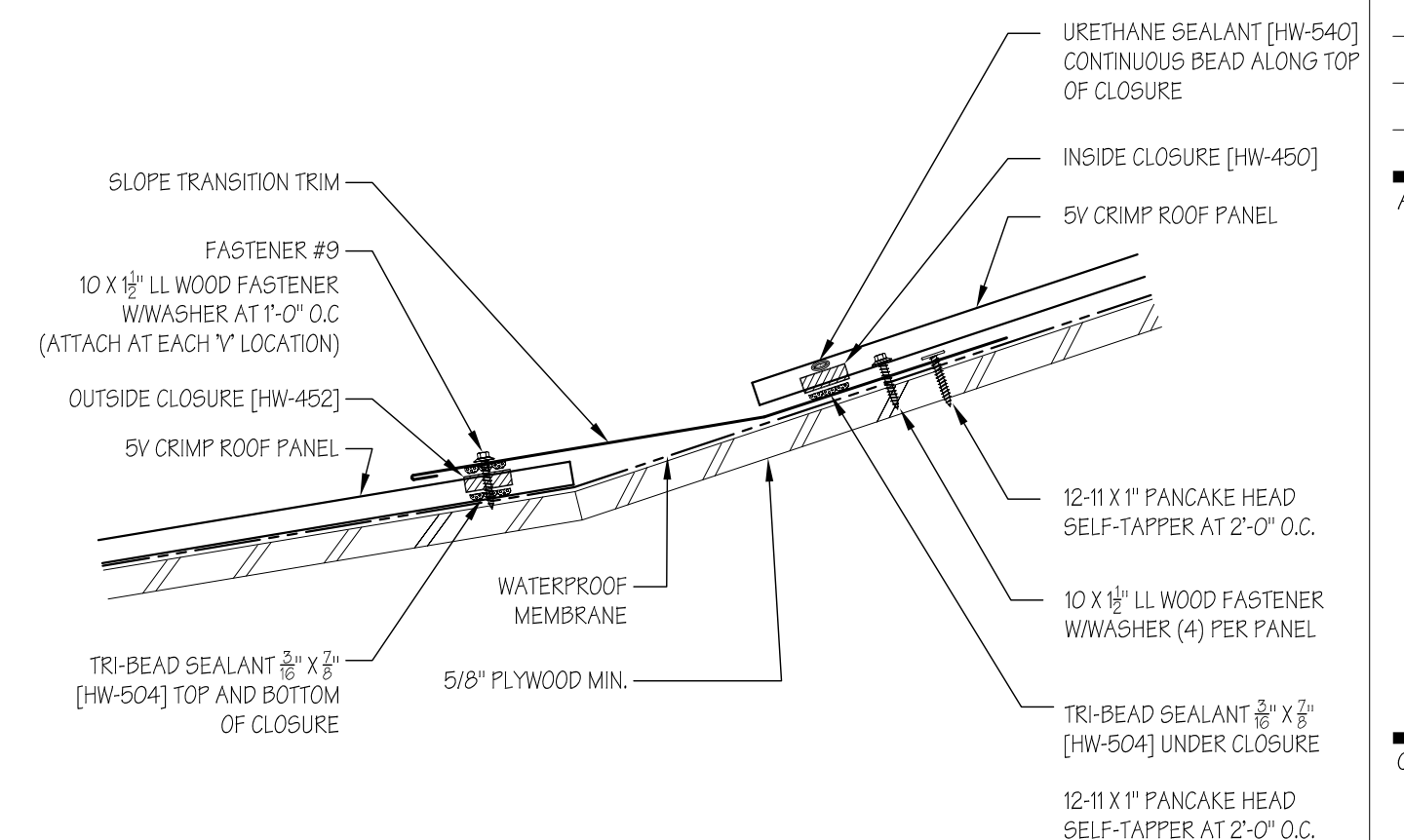
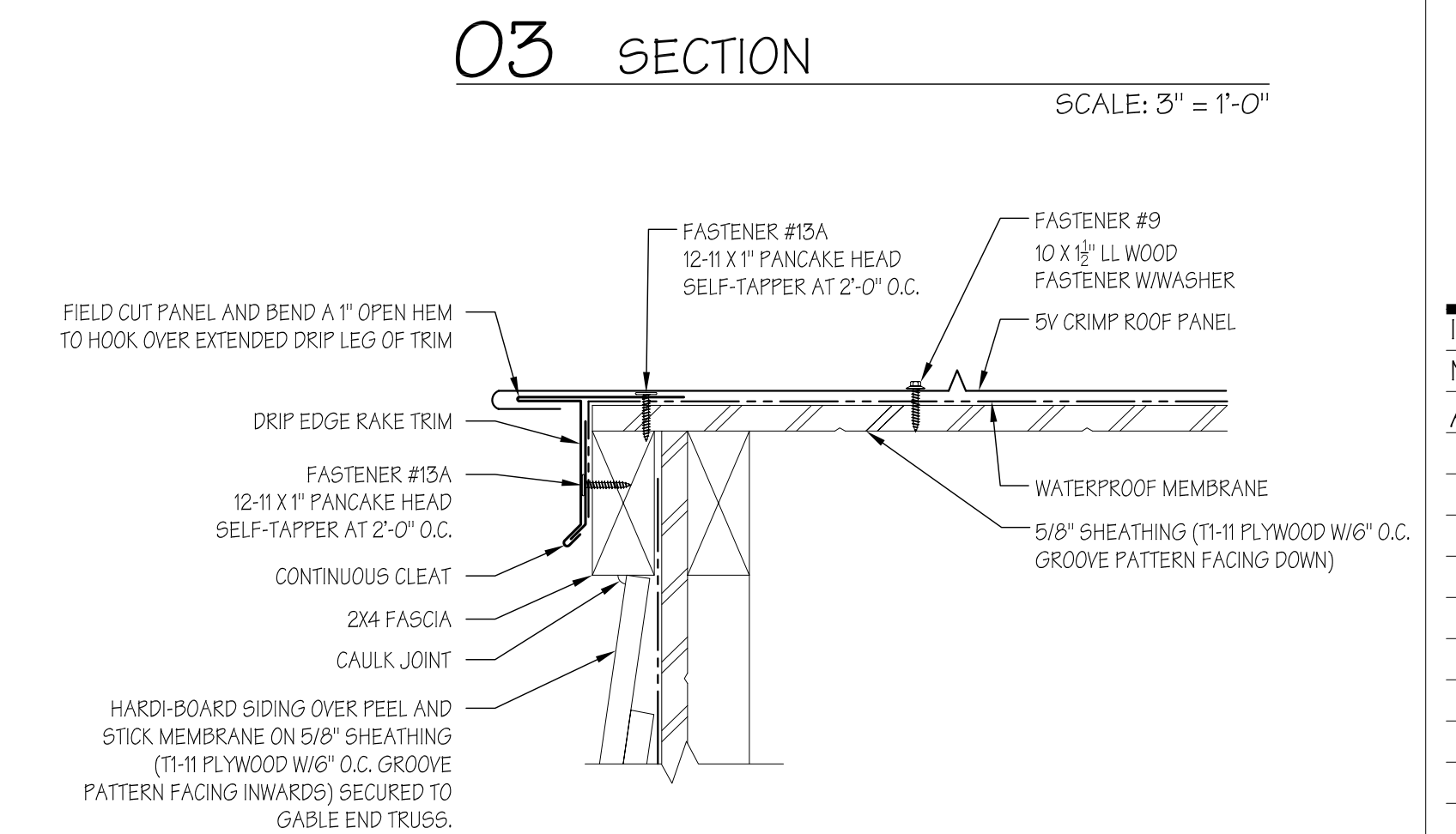
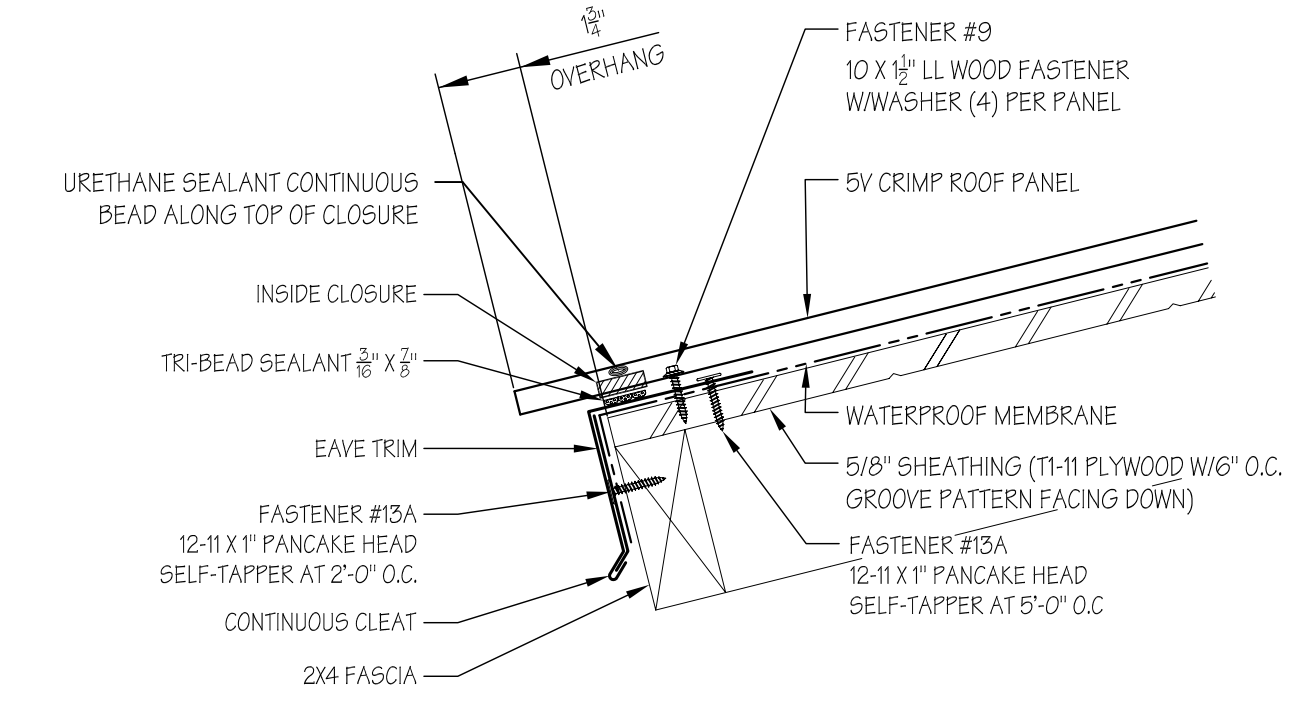
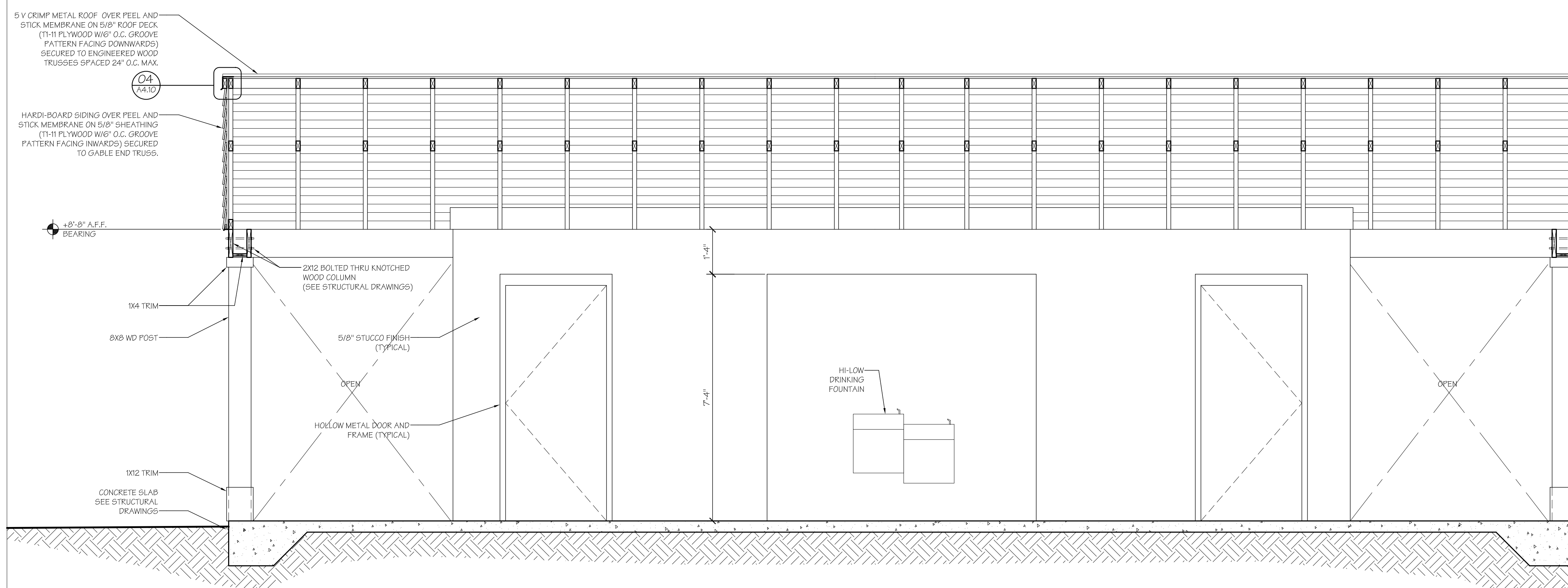
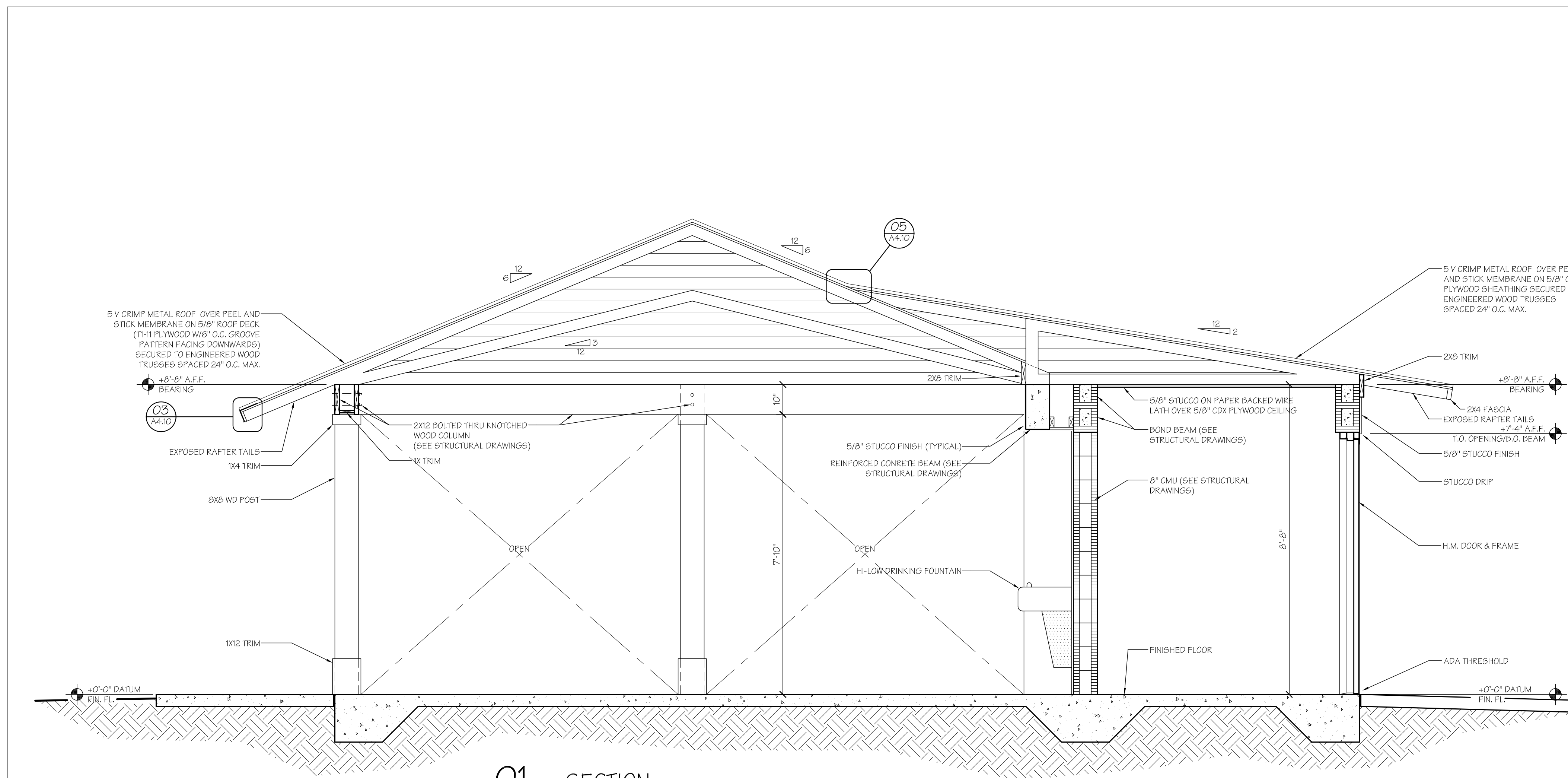
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Project No.:	Plot File:
2019-23.002	
Sheet No.:	

Cert. No.: 12456

Date Signed:

A4:10

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

SCALE: 3" = 1'-0"

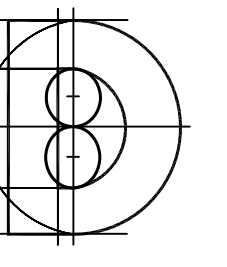
Project:

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Issues:
No.: Date: Description:
A. 02/05/19 BID SET

Architect:



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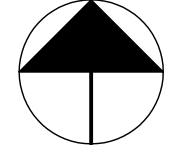
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SCHEDULES

Reference North



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XREF File:
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Plot File:
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Sheet No.:

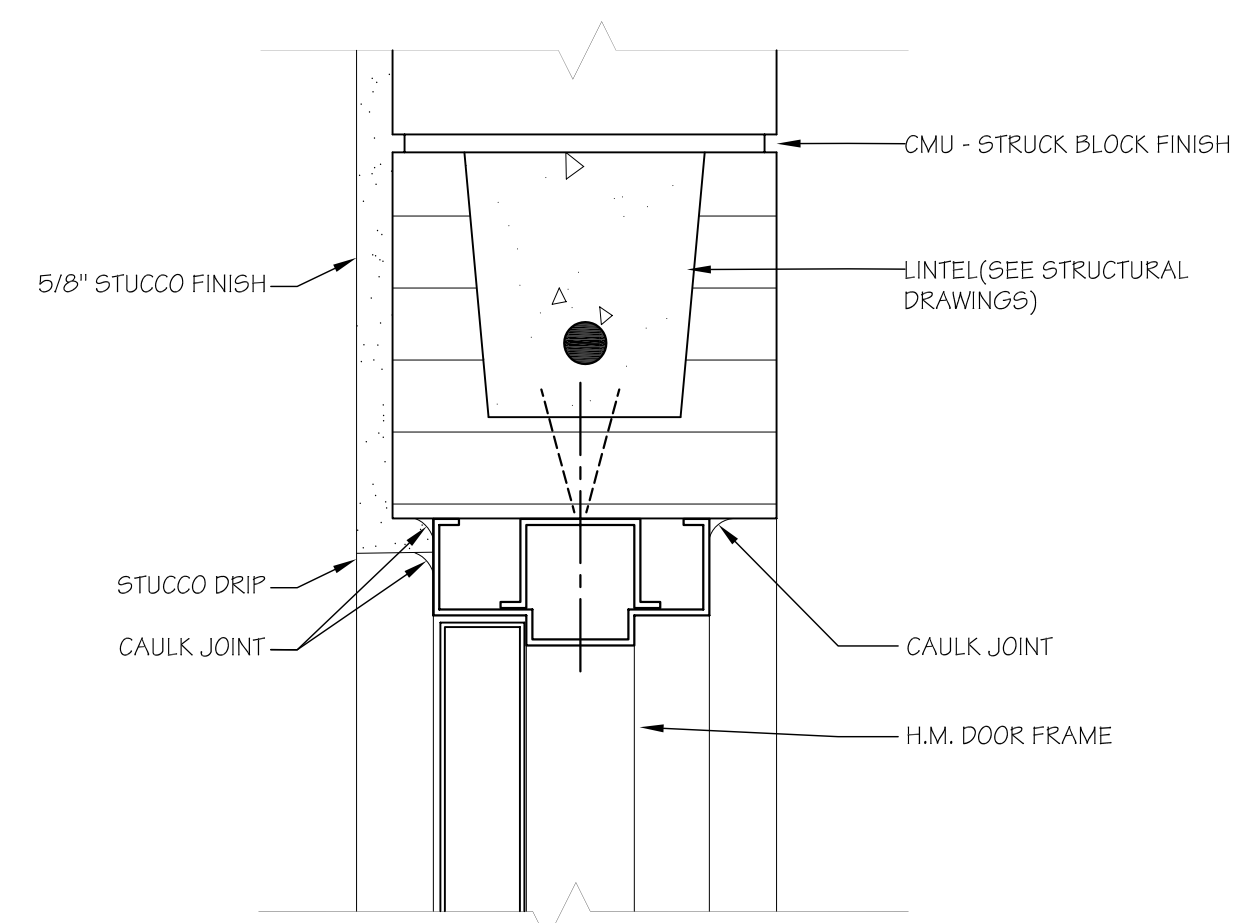
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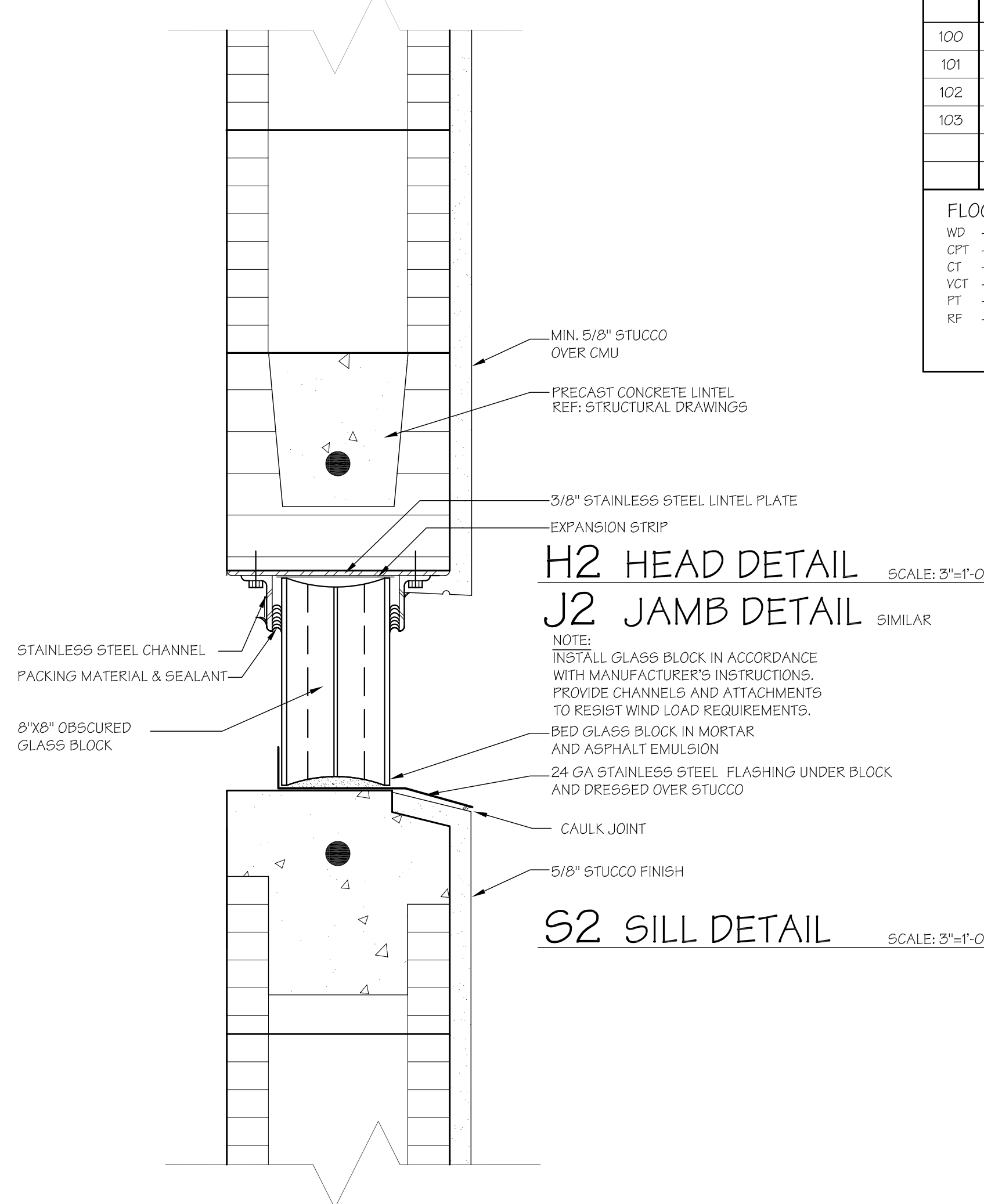
A6.10

ROOM NUMBER	ROOM NAME / LOCATION	FLOOR		WALL								CEILING			REMARKS	ROOM NUMBER
		MATERIAL	FINISH	NORTH		EAST		SOUTH		WEST		MATERIAL	FINISH	HEIGHT		
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH					
100	COVERED PAVILLION	CS	-	-	-	STC	P	-	-	-	-	WD	P	VARIES		100
101	MEN	EF	EB	CMU	EP	CMU	EP	CMU	EP	CMU	EP	WD	P	8'-8"		101
102	UTILITY	CS	-	CMU	EP	CMU	EP	CMU	EP	CMU	EP	WD	P	8'-8"		102
103	WOMEN	EF	EB	CMU	EP	CMU	EP	CMU	EP	CMU	EP	WD	P	8'-8"		103

FLOOR				BASE				WALL				CEILING			
WD	-WOOD (LAMINATE)	LF	-LINOLEUM FLOORING	WB	-5-1/2" WOOD BASE	GYP	-GYPSUM BOARD	P-1	-LATEX PAINT				ACT	-24 X 24 ACOUSTICAL TILE	
CFT	-CARPET	EF	-EPOXY FLOORING	CTB	-CERAMIC TILE BASE	MRB	-MOISTURE RESISTANT BOARD				GYP	-GYPSUM BOARD			
CT	-CERAMIC TILE	CS	-CONCRETE SEALER	EX	-EXISTING BASE	EP	-EPOXY PAINT				EX	-EXISTING DRYWALL			
VCT	-VINYL CUT TILE	ECC	-EPOXY COATED CONCRETE	PTB	-PORCELIN TILE BASE	CB	-CEMENT BOARD				EXP	-EXPOSED STRUCTURE			
PT	-PORCELAIN TILE	EX	-EXISTING	VB	-6" VINYL BASE	CMU	-CONC. MAS. UNIT (STRUCK BLOCK FINISH)				F	-FACTORY FINISH			
RF	-RUBBER FLOORING			EB	-6" EPOXY BASE	P	-LATEX PAINT				SC	-SKY CEILING BY "SKY FACTORY"			
						EX	-EXISTING				P	-LATEX PAINT			
						STC	-STUCCO								



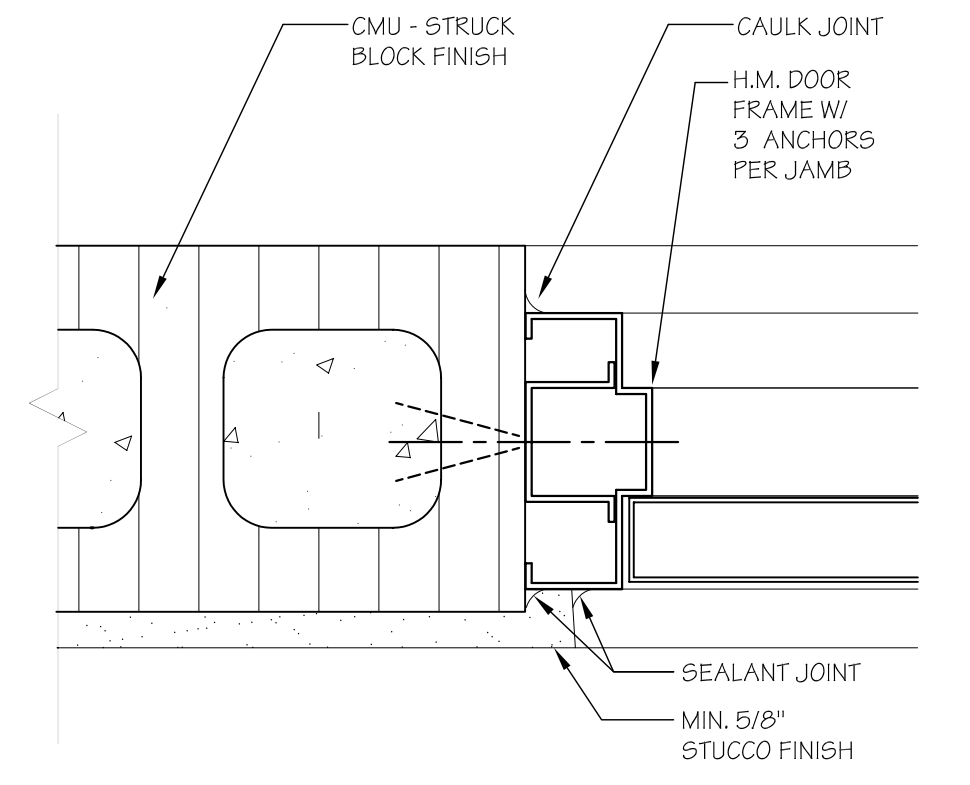
H1 HEAD DETAIL SCALE: 3/4"=1'-0"



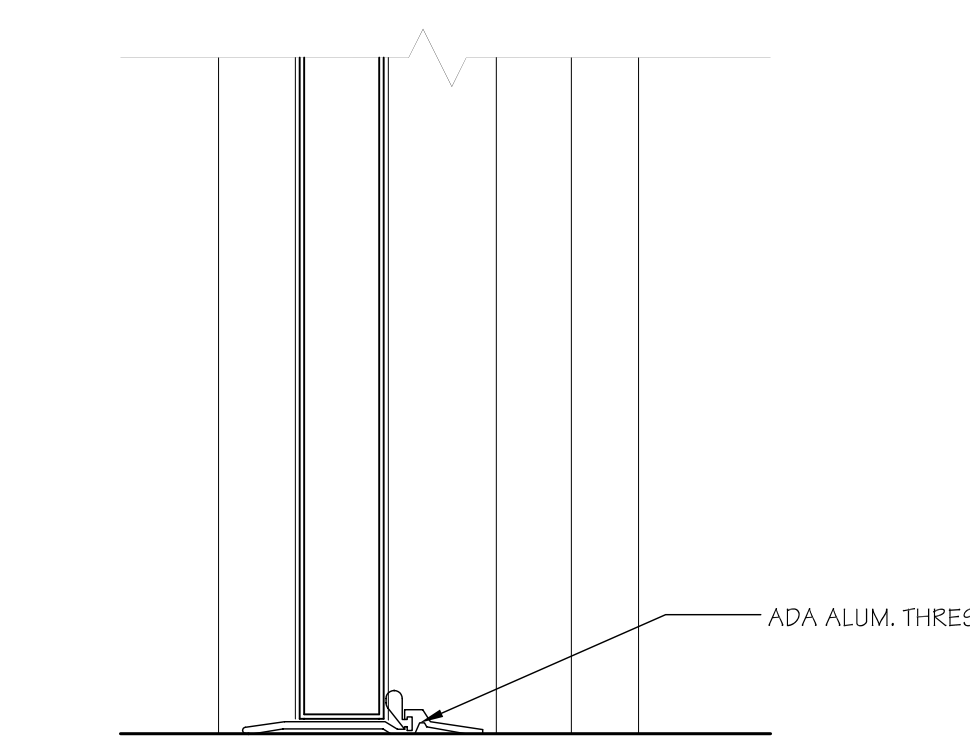
H2 HEAD DETAIL SCALE: 3/4"=1'-0"

J2 JAMB DETAIL SIMILAR

S2 SILL DETAIL SCALE: 3/4"=1'-0"



J1 JAMB DETAIL SCALE: 3/4"=1'-0"



S1 SILL DETAIL SCALE: 3/4"=1'-0"

O1 DOOR DETAILS SCALE: 3/4"=1'-0"

Hardware Group No. 01 - EXTERIOR RESTROOM - IN-SWING

For use on mark/door #(s):
101 103

Each To Have:

Qty	Description	Catalog Number	Finish	Mfr
3	EA HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA DEAD LOCK W/OCC IND	L496P L583-363	630	SCH
1	EA PUSH PLATE	8200 4" X 16"	630	IVE
1	EA PULL PLATE	8302 10" X 4" X 16"	630	IVE
1	EA SURFACE CLOSER	4050 REG OR PA AS REQ SRI TBSRT	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA RAIN DRIP	142AA	AA	ZER
1	EA GASKETING	8150SBK PSA	BK	ZER
1	EA THRESHOLD	566A-223	A	ZER

SCHLAGE LOCK NOA FL 10356_2 - R6
FAS-SEAL DOOR SWEEP BY DOOR MFR.
VERIFY KEYING REQUIREMENTS WITH OWNER

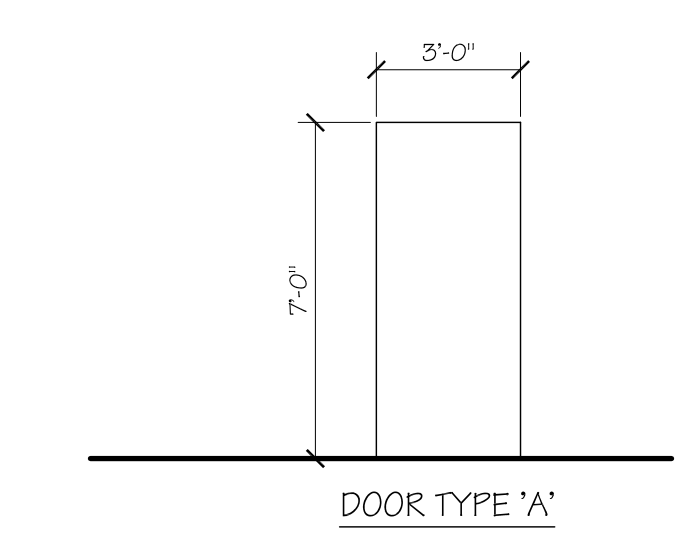
Hardware Group No. 02 - EXTERIOR UTILITY - OUT-SWING

For use on mark/door #(s):
102

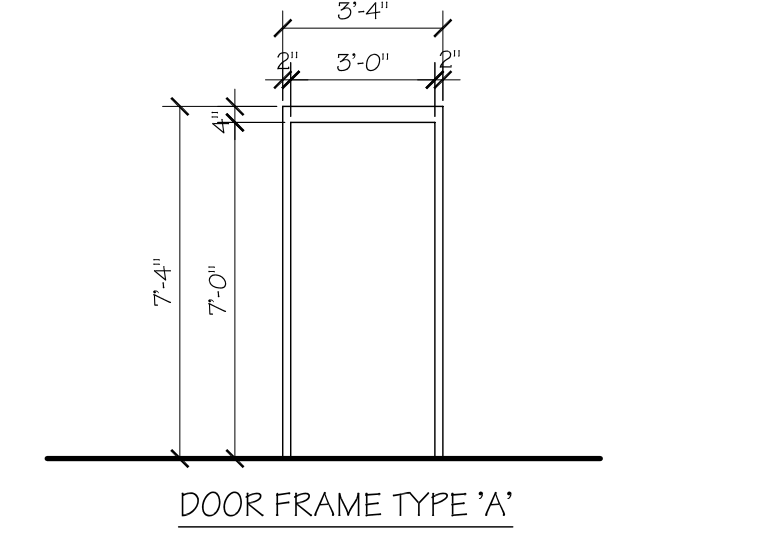
Each To Have:

Qty	Description	Catalog Number	Finish	Mfr
3	EA HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA STOREROOM W/DEADBOLT	L9480P 06A L583-363	630	SCH
1	EA SURFACE CLOSER	4050 REG OR PA AS REQ SRI TBSRT	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA RAIN DRIP	142AA	AA	ZER
1	EA GASKETING	8150SBK PSA	BK	ZER
1	EA THRESHOLD	566A-223	A	ZER

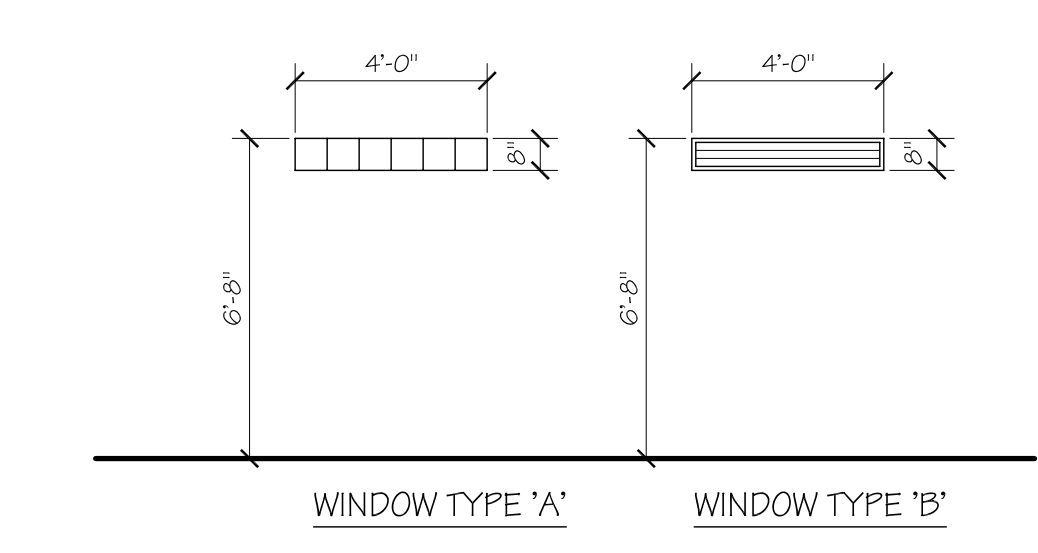
SCHLAGE LOCK NOA FL 10356_2 - R6
FAS-SEAL DOOR SWEEP BY DOOR MFR.
VERIFY KEYING REQUIREMENTS WITH OWNER



O3 DOOR PROFILES SCALE: 1/4"=1'-0"



O4 DOOR FRAME PROFILES SCALE: 1/4"=1'-0"

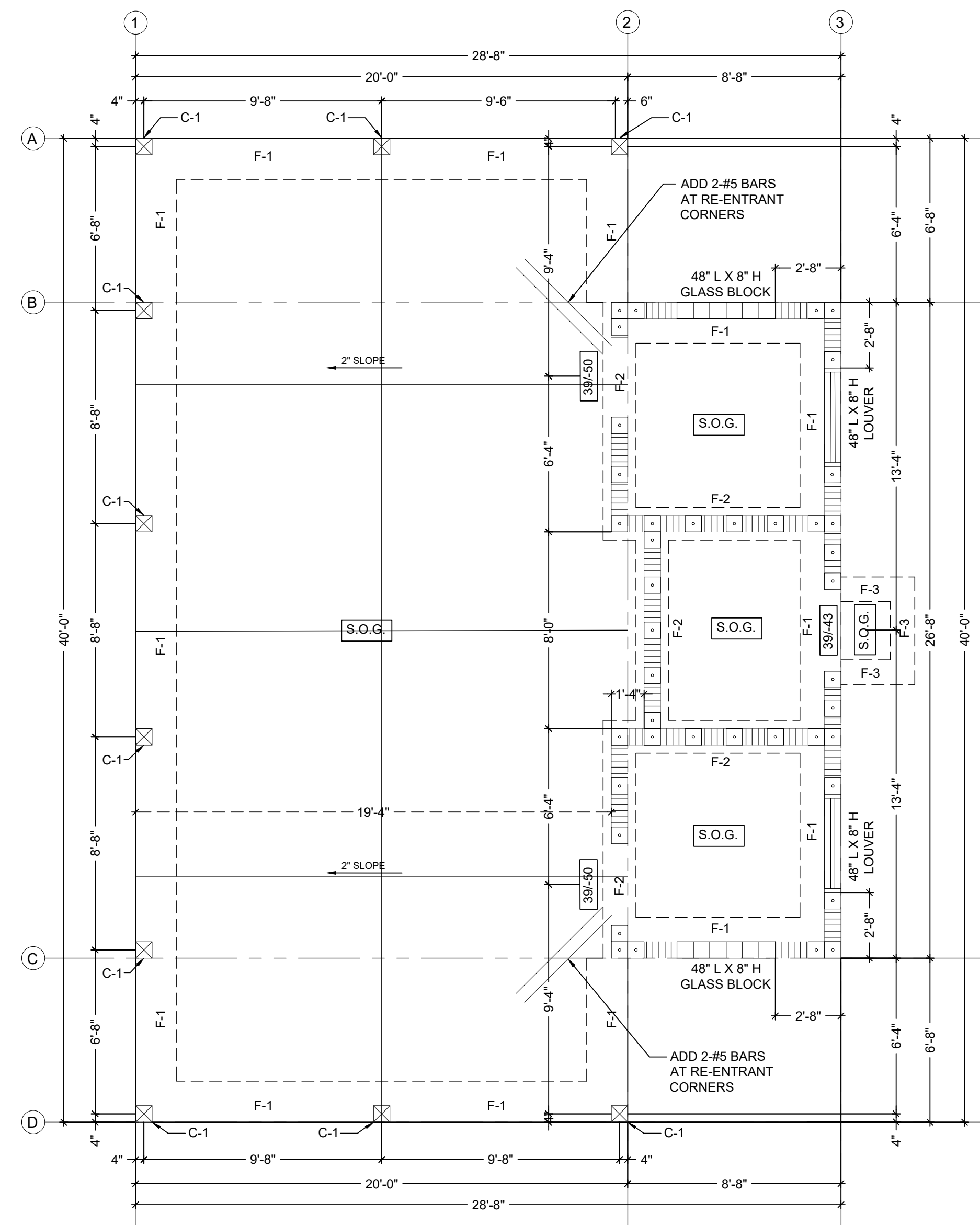


O5 WINDOW/LOUVER PROFILES SCALE: 1/4"=1'-0"

DOOR NUMBER	DOOR SIZE		DOOR				FRAME				THRESHOLD	FIRE RATING (IN MINUTES)	HARDWARE GROUP	REMARKS	DOOR NUMBER		
			DOOR TYPE	MATERIAL	GLASS	FINISH	FRAME TYPE	DETAILS (SEE REMARKS)									
								MATERIAL	FINISH	SILL						JAMB	TRANSOM
FIRST FLOOR																	
101	3'-0" X 7'-0"	1 3/4"	A	HM	-	P	A	HM	P	S1/A6.10	J1/A6.10	-	H1/A6.10	ADA	-	1	101
102	3'-0" X 7'-0"	1 3/4"	A	HM	-	P	A	HM	P	S1/A6.10	J1/A6.10	-	H1/A6.10	ADA	-	2	102
103	3'-0" X 7'-0"	1 3/4"	A	HM	-	P	A	HM	P	S1/A6.10	J1/A6.10	-	H1/A6.10	ADA	-	1	103

LVR = FULLY LOUVERED	HCW = HOLLOW CORE WOOD	WD = WOOD	GYP = GYPSUM BOARD	AN = ANODIZED	RG = RATED GLASS (FIRE/LEAD GLASS)	K = KYNAR
GS = GALVANIZED STEEL	SCW = SOLID CORE WOOD	MTL = METAL	MRB = MOISTURE RESISTANT GYP.	PL = PLASTIC LAMINATE	F = FACTORY FINISH	
FG = FIBERGLASS	WD = WOOD	TP = TEMPERED	IG = GREY TINTED, IMPACT RESISTANT GLASS	BV = BIRCH VENEER	P = PAINT	

DOOR SCHEDULE



PROPOSED FOUNDATION PLAN

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

- ◻ FILLED CELL W/ #5 VERT. 30" LAP SPLICE TYP.
- ◻ 8" CMU WALL
- +/-PSF MIN. DESIGN PRESSURE (POUNDS PER SQUARE FOOT)
- S.O.G. 4" THICK CONCRETE SLAB W/ 6x6 -W1.4xW1.4 WWF OR FIBERMESH ON 6 MIL VAPOR BARRIER ON TREATED COMPACTED SOIL
- SAW CUTS @ 10'-0" O.C. MAX

FOUNDATION SCHEDULE			
MARK	W x D x L	REINFORCEMENT	NOTES
F-1	20" x 18" x CONT.	(2) #5 BARS CONT.	TYPICAL THICKENED EDGE
F-2	16" x 12" x CONT.	(2) #5 BARS CONT.	TYPICAL BELL FOOTER
F-3	12" x 12" x CONT.	(1) #5 BARS CONT.	THICKENED EDGE AT UTILITY ROOM ENTRANCE

COLUMN SCHEDULE			
MARK	TYPE	POST BASE	NOTES
C-1	8"x 8" P.T. SYP. COLUMN	MPB66Z	FASTENED W/ (24) SDS 1/4" x 2-1/2"

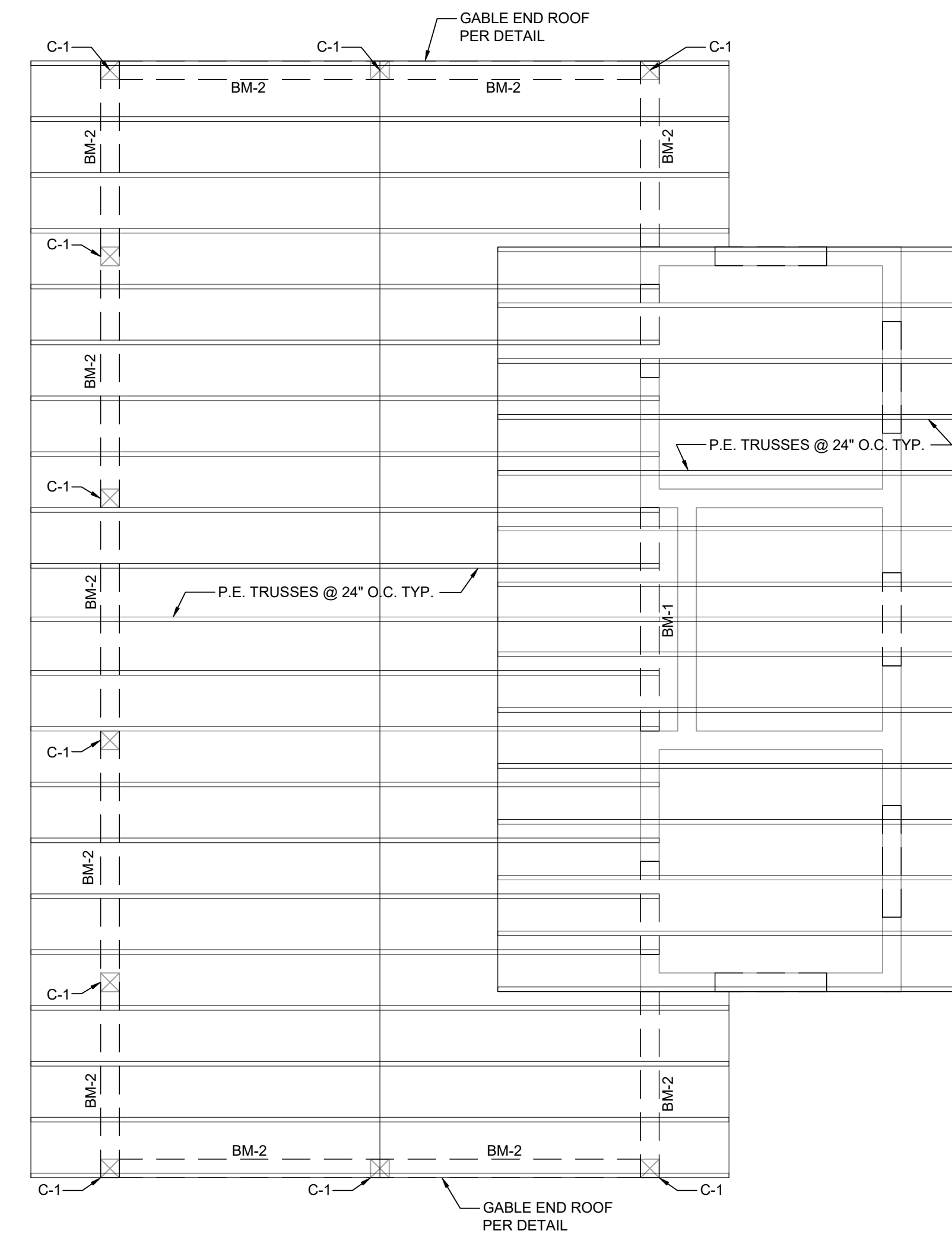
BEAM/INTEL SCHEDULE			
MARK	TYPE	REINFORCEMENT / CONNECTION	NOTES
BM-1	8F16	(1) #5 TOP & BOTTOM CONT.	ALL UNMARKED OPENINGS
BM-2	(2) 2x12 P.T. SYP.	PER DETAIL	

CONNECTOR SCHEDULE				
TRUSS	STRAP	UP. MAX (LBS)	FASTENERS	NOTES
MASONRY WALL				
TYPICAL	(1) HETAL20	1,810	(14) 10d x 1 1/2" TO TRUSS	
WOOD BEAM				
TYPICAL	(1) H11Z (SS)	830	(6) 16d x 2 1/2" TO TRUSS	INT. OF BEAM
TYPICAL	(1) H3 (SS)	455	(4) 8d TO TRUSS	EXT. OF BEAM

- NOTES:**
- PROVIDE TRUSS CONNECTOR AT ENDS OF ALL TRUSSES.
 - TRUSSES WITH MULTIPLE STRAPS, CONNECTORS SHALL BE STAGGERED EACH SIDE OF TRUSS TO AVOID SPLITTING MEMBER.
 - TRUSS CONNECTORS AND CLIPS NOTED ON THIS LAYOUT ARE MODEL No. 'S' OF "SIMPSON STRONG-TIE". CONTRACTOR MAY SUBSTITUTE EQUAL STRAPS FROM ANOTHER MANUFACTURER.
 - TRUSS TO TRUSS CONNECTIONS ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.
 - PROVIDE TRUSS CONNECTORS IN ACCORDANCE WITH TRUSS LAYOUT FROM TRUSS MANUFACTURER.
 - A.T.R. = ALL THREADED ROD EPOXY TO CONCRETE. A.B. = ANCHOR BOLT A-307 EMBEDDED 6" MIN.
 - CONTRACTOR MAY SUBSTITUTE STRAPS IN ACCORDANCE WITH THE TRUSS UPLIFT AND THE STRAPS SHOWN ABOVE.

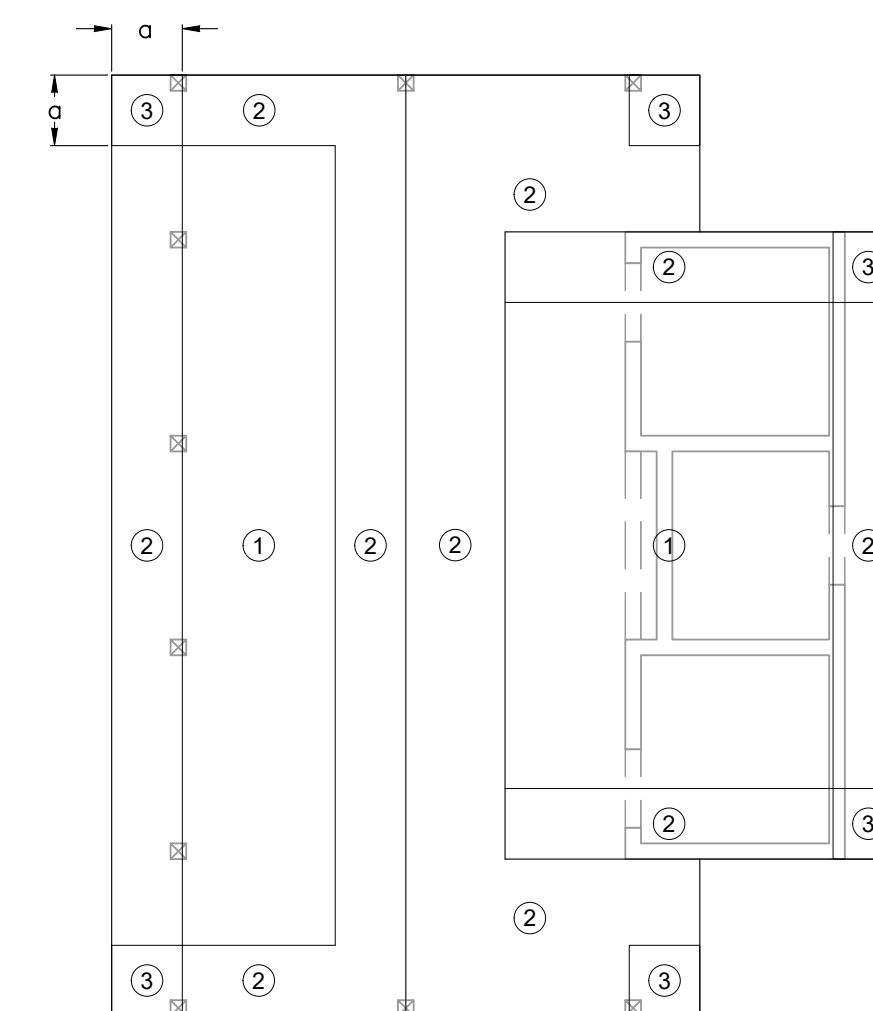
ROOF SHEATHING FASTENING SCHEDULE WITH 19/32" PLYWOOD SPACING REQUIRED FOR 8D GALV. RINGSHANK NAILS			
BUILDING	ZONE 1	ZONE 2	ZONE 3
ENCLOSED	6" O.C. @ EDGES 6" O.C. @ FIELD	3" O.C. @ EDGES 6" O.C. @ FIELD	3" O.C. @ EDGES 6" O.C. @ FIELD
DESIGN PRESSURE ALLOWABLE	-30 PSF	-68 PSF	-94 PSF
DESIGN PRESSURE ULTIMATE	-49 PSF	-113 PSF	-157 PSF

* a = 3.0 FEET EDGE DISTANCE



PROPOSED FRAMING PLAN

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



ROOF ZONES

SCALE: 1/8" = 1'-0"

ENCLOSED

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		
7		

JOB NO.	DESIGNED	DATE	CHECKED	DATE/ISSUED	SCALE
17-0133	RV		RV		AS NOTED
	AER	JAN 2019	RV		

1835 - 20TH STREET
 VERO BEACH, FL 32960
 PH: (772) 569-0035
 FX: (772) 778-3617

EMBV
ENGINEERING, INC.
 MOA, BOWLES VILLAMIZAR & ASSOCIATES
 CONSULTING ENGINEERING CA#1728
 MELBOURNE, FL - PH (321) 253-1510
 FT. PIERCE, FL - PH (772) 468-9055

FOUNDATION PLAN,
 FRAMING PLAN,
 AND ROOF ZONES

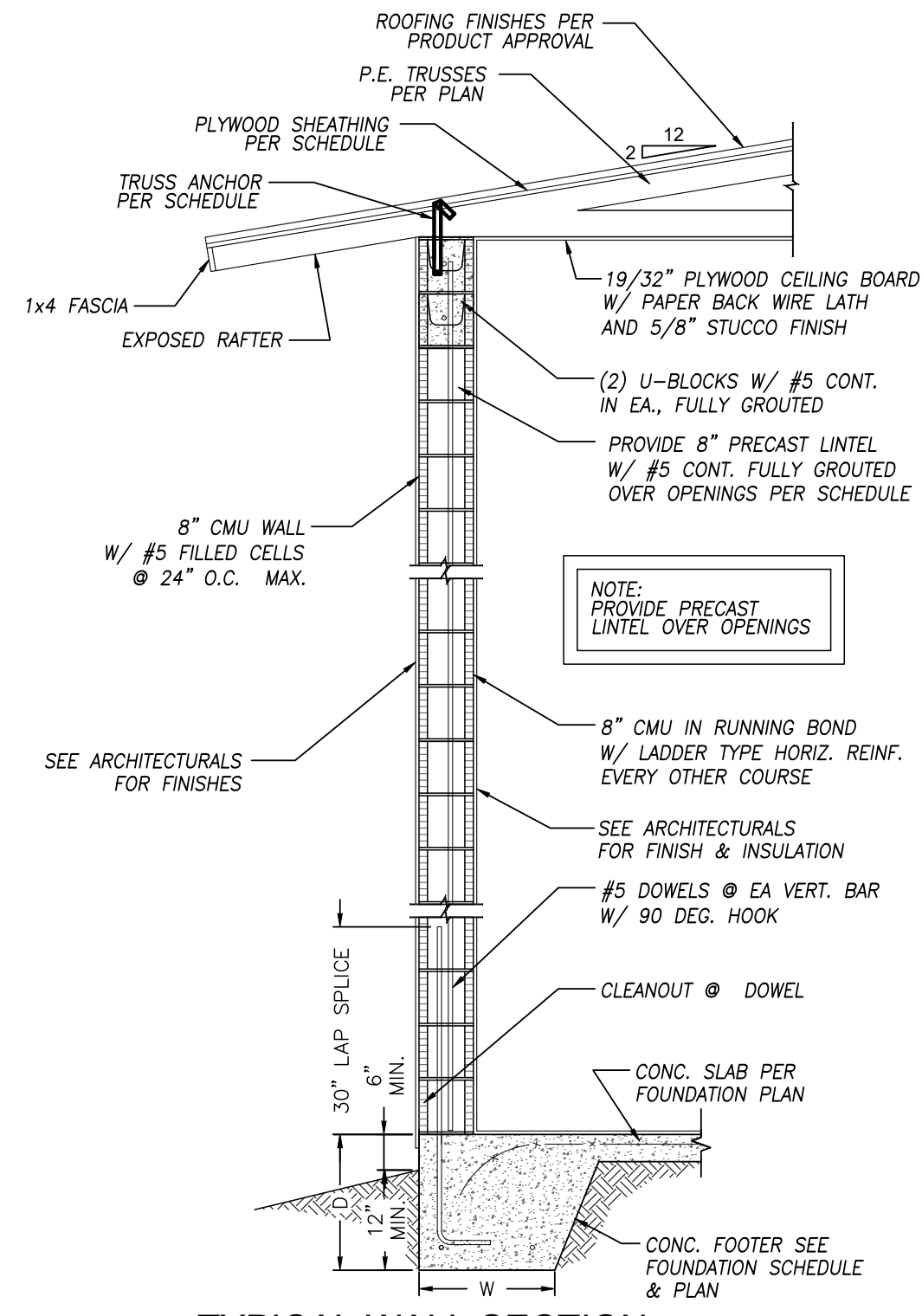
JONES' PIER
 RESTROOM/PAVILLION
 INDIAN RIVER COUNTY
 FLORIDA

RODOLFO VILLAMIZAR
 FL. P.E.#61000
 DATE: 02-05-2019

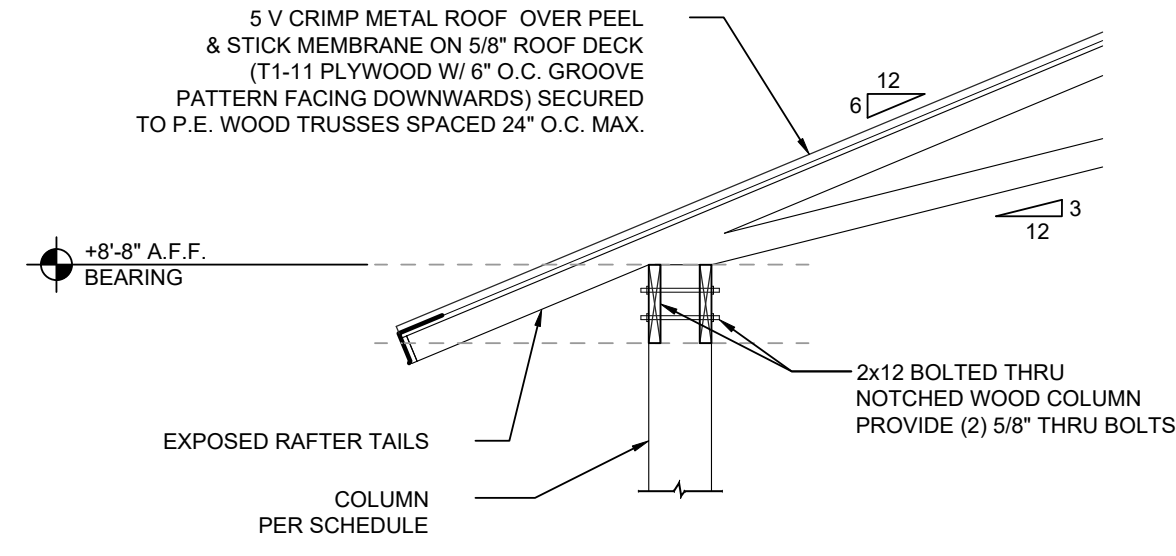
SHEET
S2
 OF 3
 17-0133

BID SET

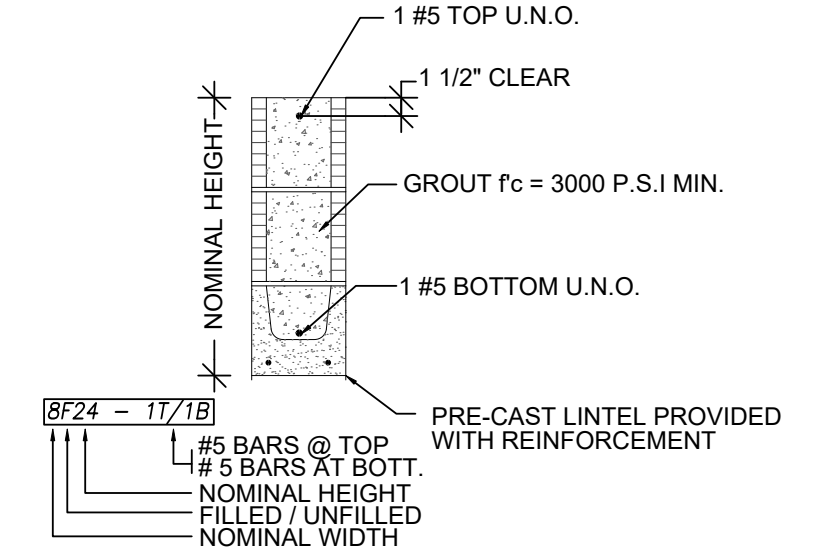
17-0133



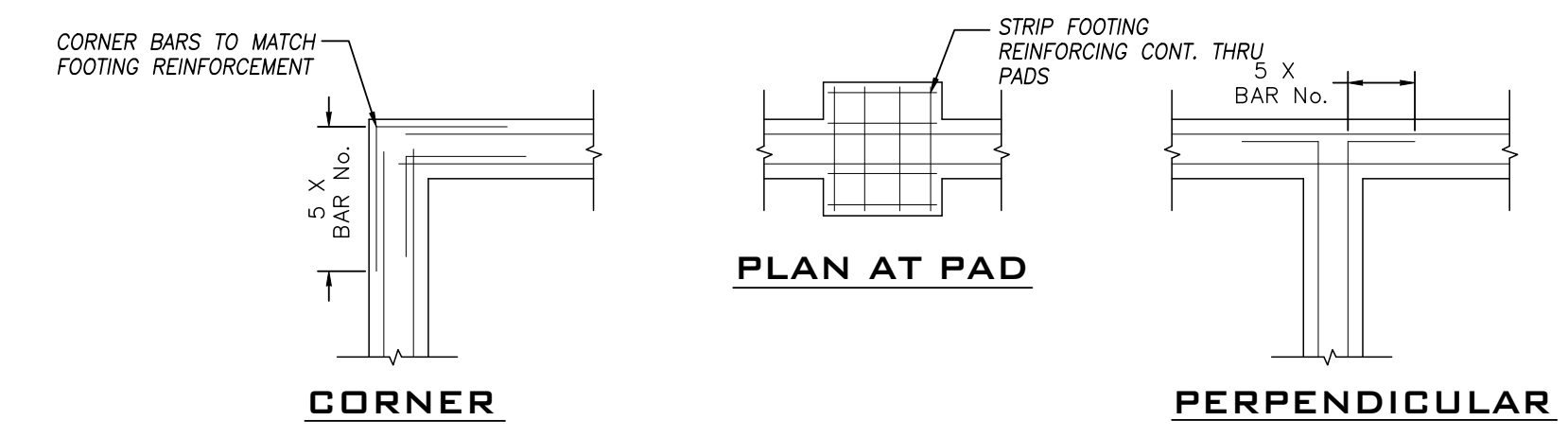
TYPICAL WALL SECTION
SCALE: 1/2" = 1'-0"



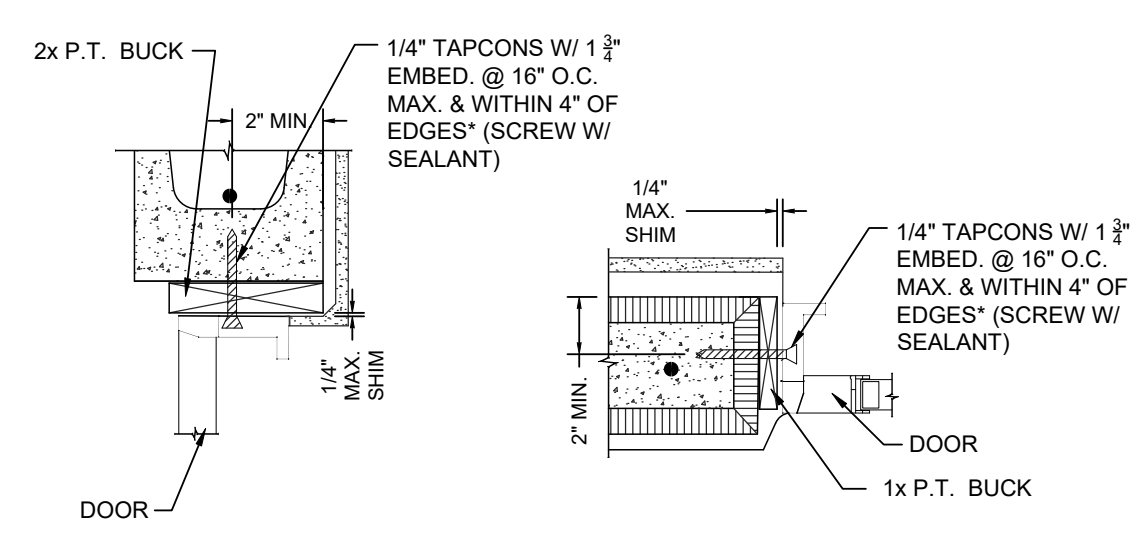
TRUSS ON BEAM DETAIL
SCALE: 1/2" = 1'-0"



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



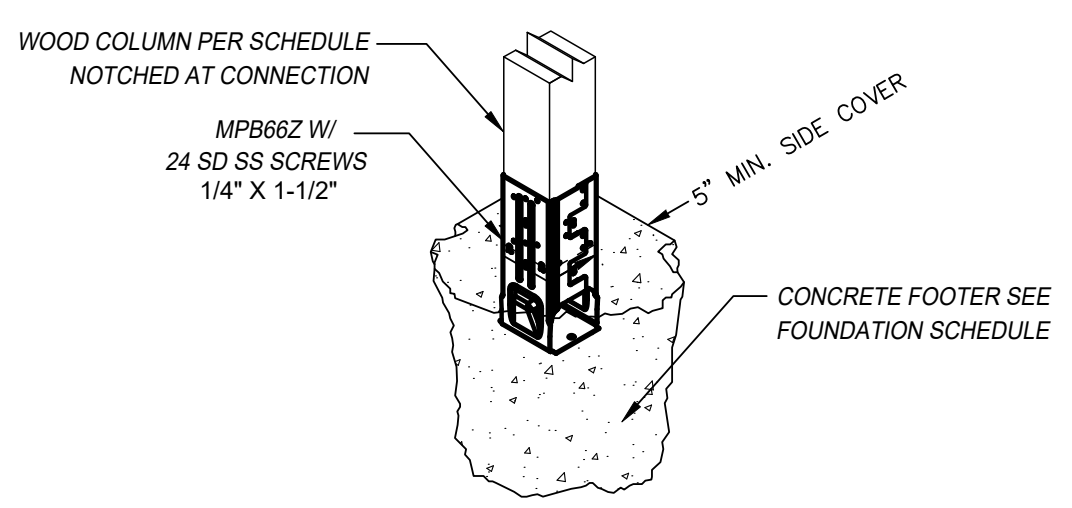
TYPICAL FOOTING INTERSECTION DETAIL
SCALE: 1/2" = 1'-0"



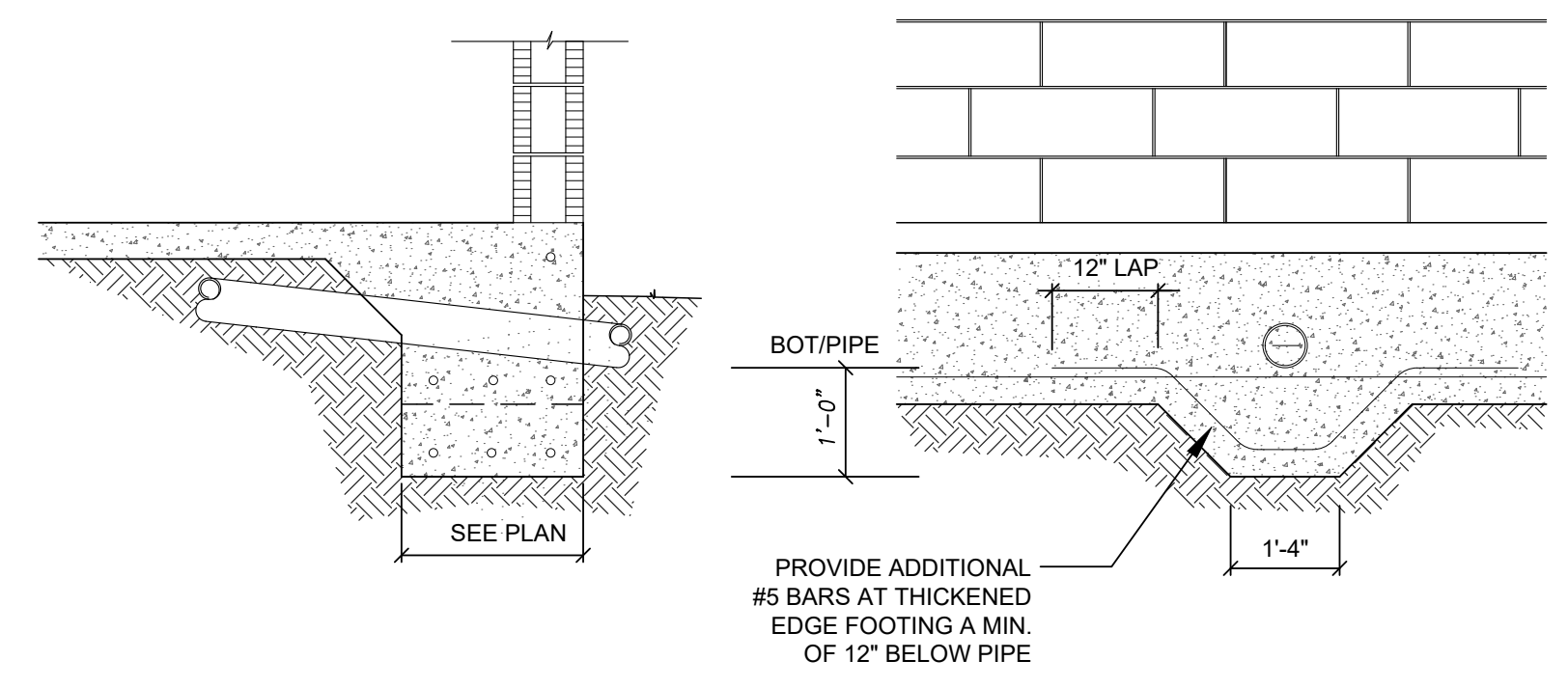
TYP. HEADER DETAIL **TYP. JAMB DETAIL**

*NOTE: REFERENCE NOA INSTALLATION ANCHOR LAYOUT OR SPECIFIC ANCHOR LOCATIONS AT CORNERS AND MEETING RAILS. SHIMS SHALL BE 3/8" SHORTER THAN DEPTH OF DOOR AND SHALL BE NON WATER-DEGRADABLE OR COMPRESSIBLE.

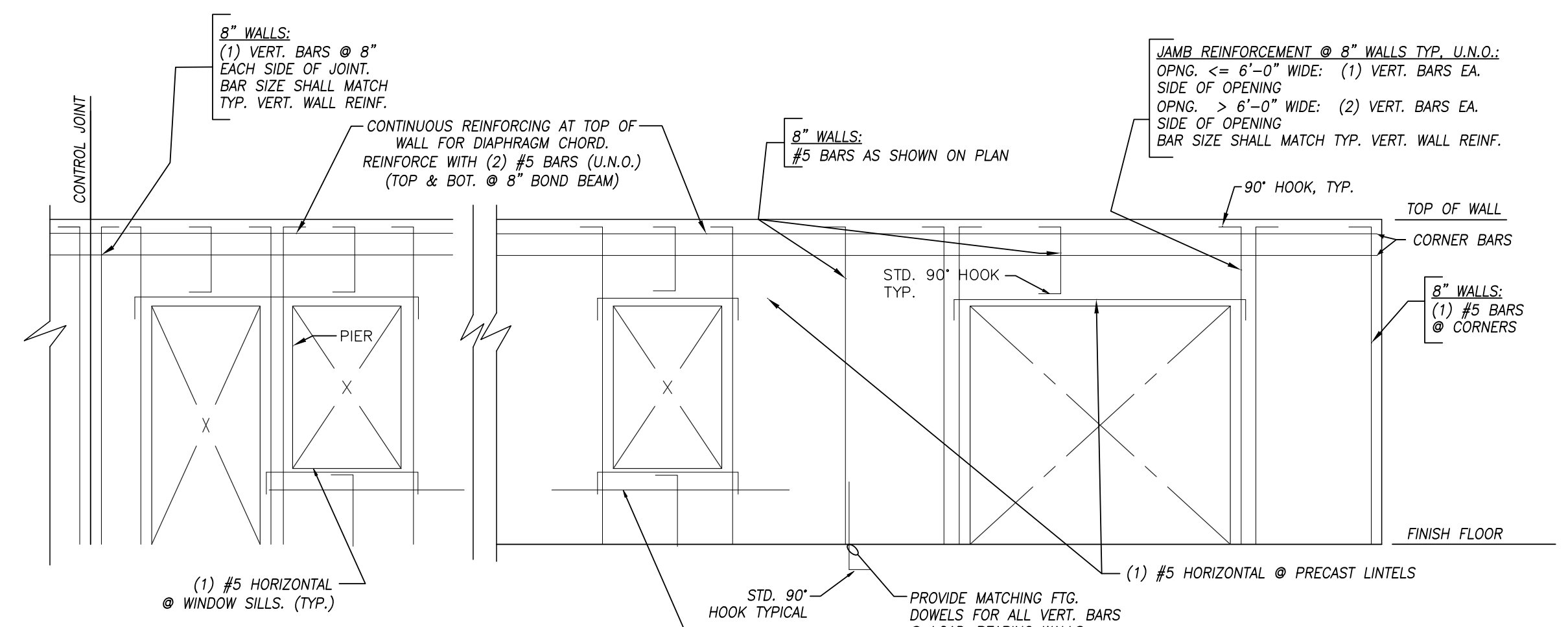
DOOR BUCK AT CMU DETAIL
SCALE: 3/4" = 1'-0"



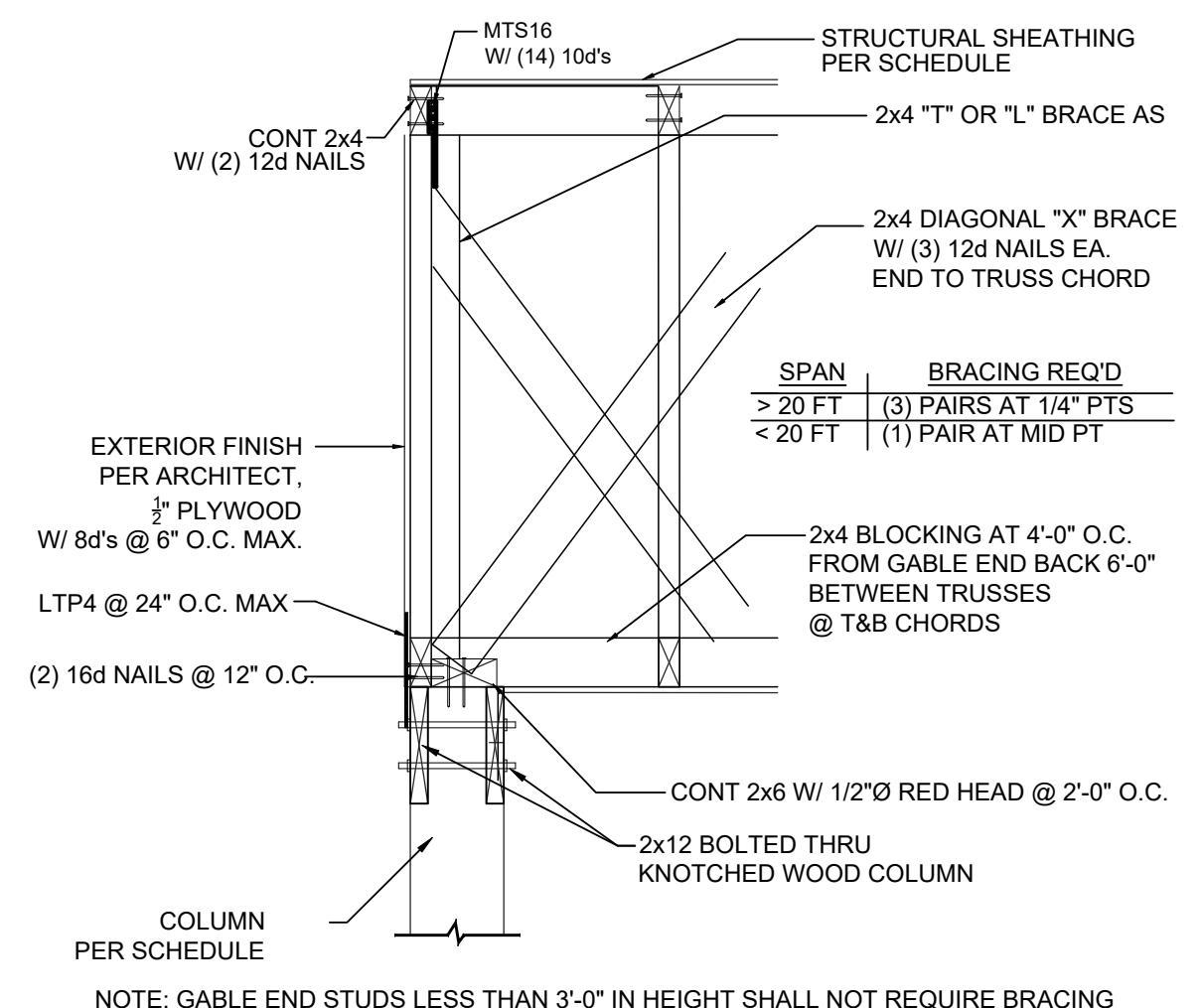
TYPICAL WOOD POST BASE
SCALE: 3/4" = 1'-0"



FOOTING PENETRATION DETAIL
SCALE: 3/4" = 1'-0"

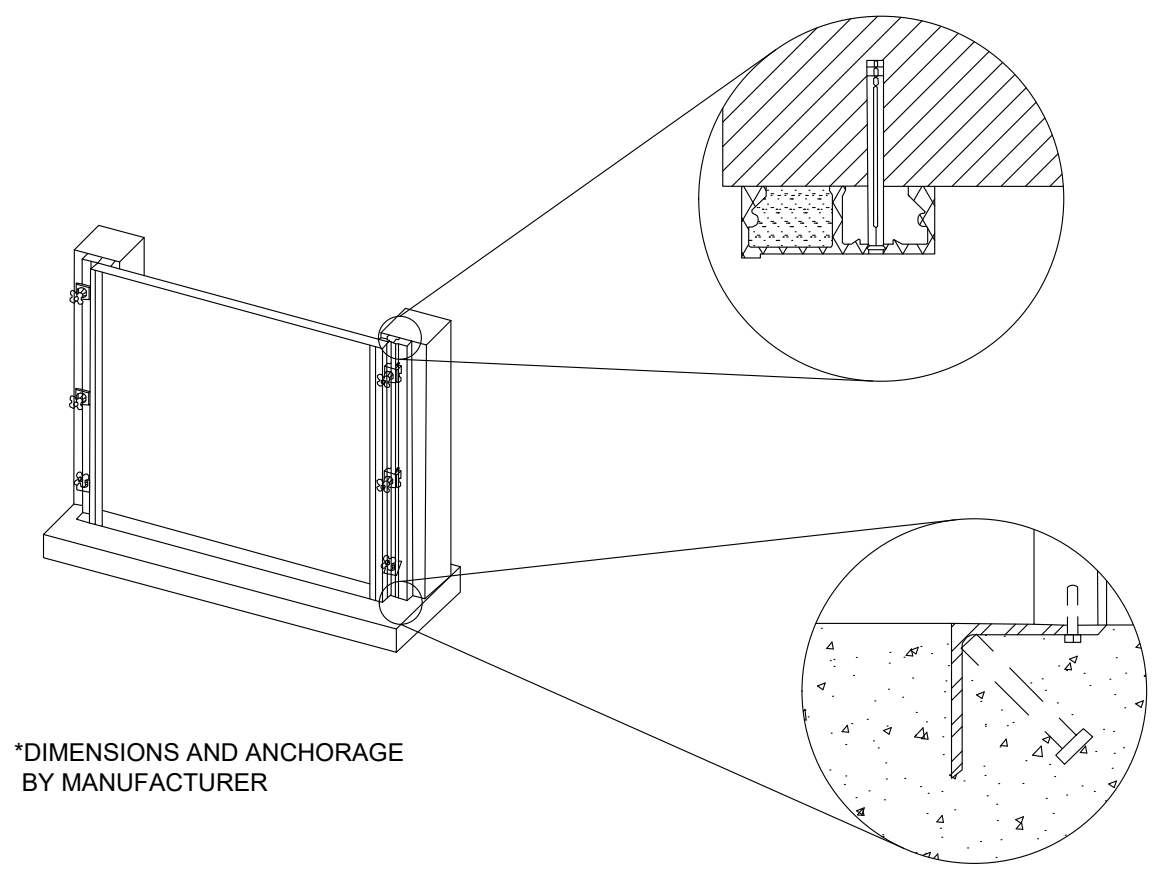


ELEVATION OF A TYPICAL MASONRY WALL
SCALE: 1/2" = 1'-0"

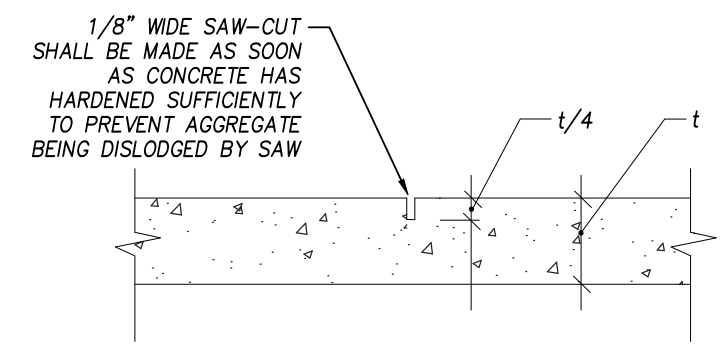


GABLE END
SCALE: 3/4" = 1'-0"

FLOOD BARRIER MANUFACTURERS
PS DOORS (SHOWN)
FLOODSHIELD
FLOOD PANEL
TRADEMARK HARDWARE



DOOR FLOOD BARRIER
NTS



SAW CUT DETAIL TYP.
SCALE: 3/4" = 1'-0"

REVISIONS	DATE
1	
2	
3	
4	
5	
6	
7	

JOB NO.	17-0133
DESIGNED	RV
DRAWN	AER
CHECKED	JAN 2019
DATE	RV
DATE ISSUED	AS NOTED
SCALE	

1835 - 20TH STREET
VERO BEACH FL 32960
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CONSULTING ENGINEERING CA#1726

SECTIONS AND
STRUCTURAL DETAILS

JONES' PIER
RESTROOM/PAVILLION

INDIAN RIVER COUNTY
FLORIDA

RODOLFO VILLAMIZAR
FL. P.E.#61000
DATE: 02-05-2019

SHEET
33
OF 3
17-0133

BID SET

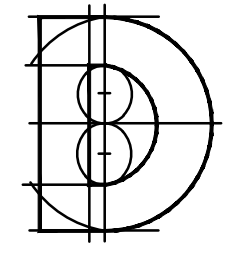
17-0133

Key Plan:

Issues:

Table with 3 columns: No., Date, Description. Row 1: A, 11/02/18, CLIENT REVIEW

Architect:



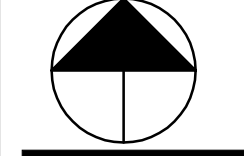
DONADIO & Associates, Architects P.A.
609 17th Street
Vero Beach, FL 32960
Tel 772 794 2929
Fax 772 562 8000
License No. AA0002238
www.donadio-arch.com

Consultant:

Drawing Title:

ELECTRICAL NOTES

Reference North



Dwg. File: MT
XREF File: XREF File:
AJD
Project No.: 2018-23.002
Plot File:
2018-23.002
Sheet No.:
Cert. No.: 12456

Date Signed:

E0.1

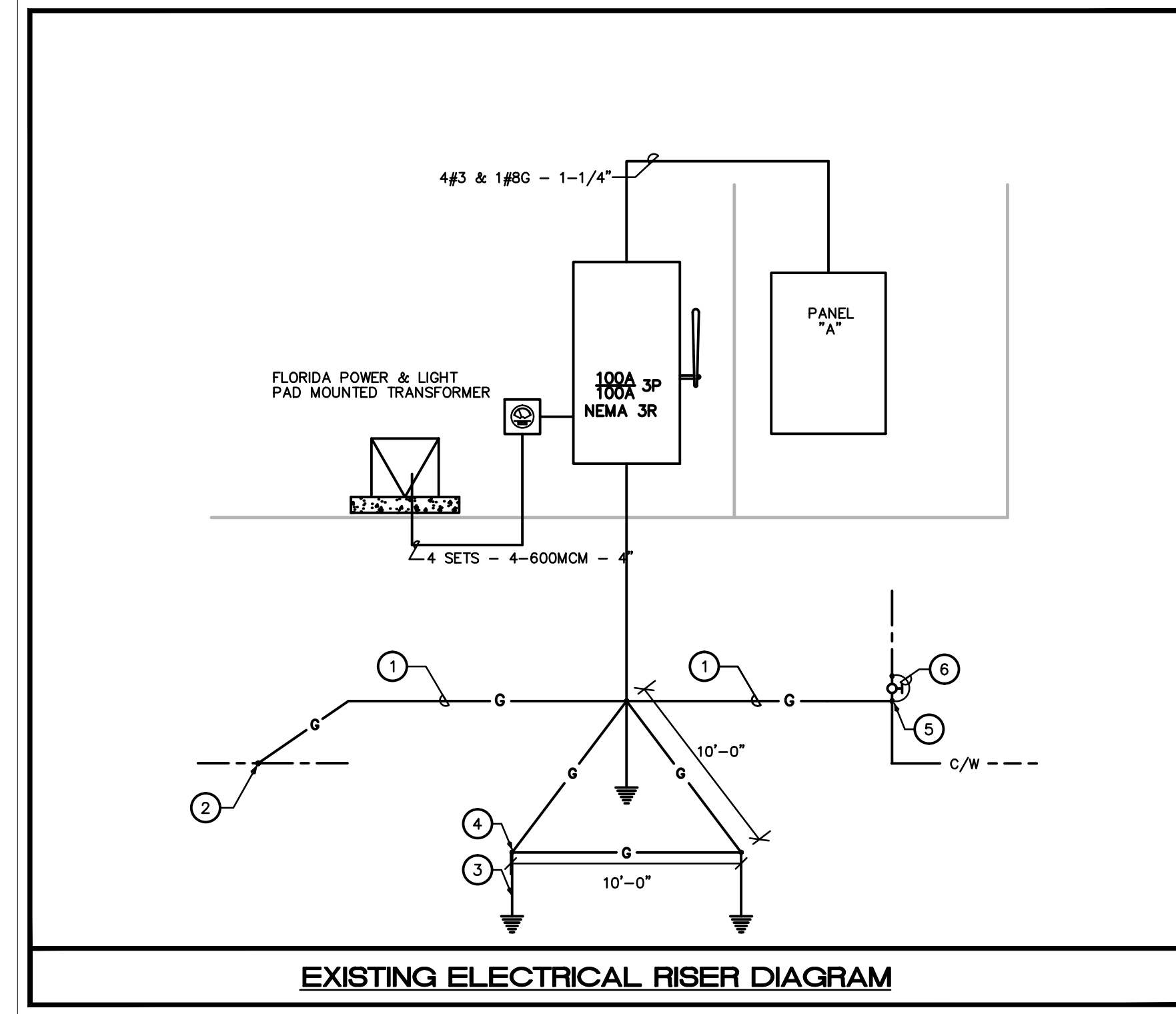
ELECTRICAL SHEET INDEX table with columns: E.O.1, ELECTRICAL NOTES, LEGEND, RISER, SCHEDULE & INDEX; E.2.1, ELECTRICAL PLAN

ELECTRICAL LEGEND table listing symbols and their corresponding descriptions for various electrical components like outlets, receptacles, switches, and junction boxes.

ELECTRICAL SPECIFICATIONS. PART 1 - GENERAL. PART 2 - PRODUCTS. PART 3 - EXECUTION. Includes detailed text specifications for materials, workmanship, and installation procedures.

LIGHTING FIXTURE SCHEDULE table with columns: SYMBOL, TYPE, DESCRIPTION, LAMPS, DRIVER, VOLTAGE, MOUNTING, REMARKS. Includes notes and general notes.

SCHEDULE OF BRANCH CIRCUIT PANEL 'A' table with columns: DESCRIPTION, WIRE, GND., COND., TRIP, CKT., A PHASE KVA, B PHASE KVA, C PHASE KVA, COND., GND., WIRE, DESCRIPTION. Includes sub-totals for KVA.



- KEY NOTES. A list of six numbered notes detailing requirements for grounding, exothermic connections, conductor types, and equipment installation.

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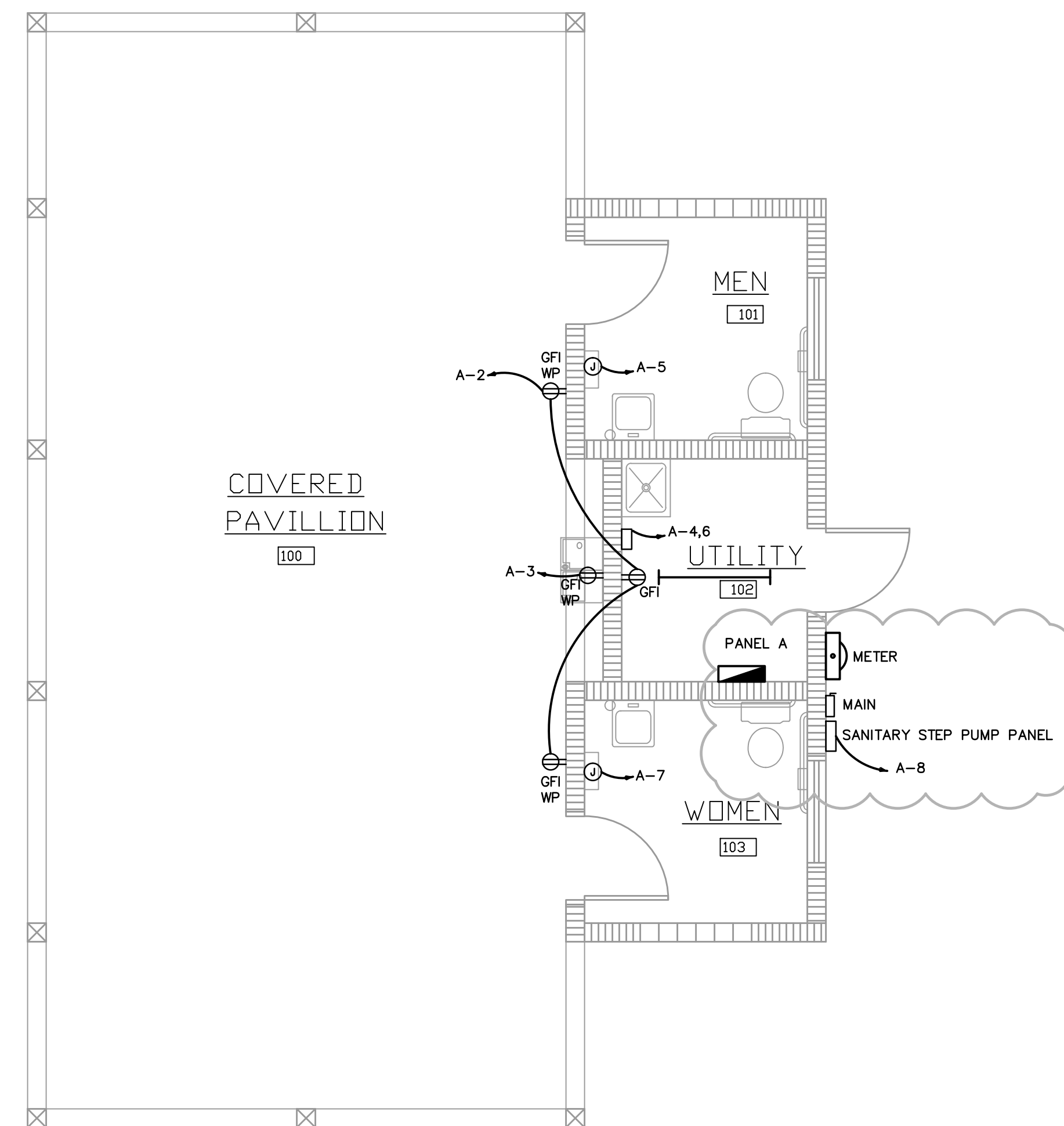
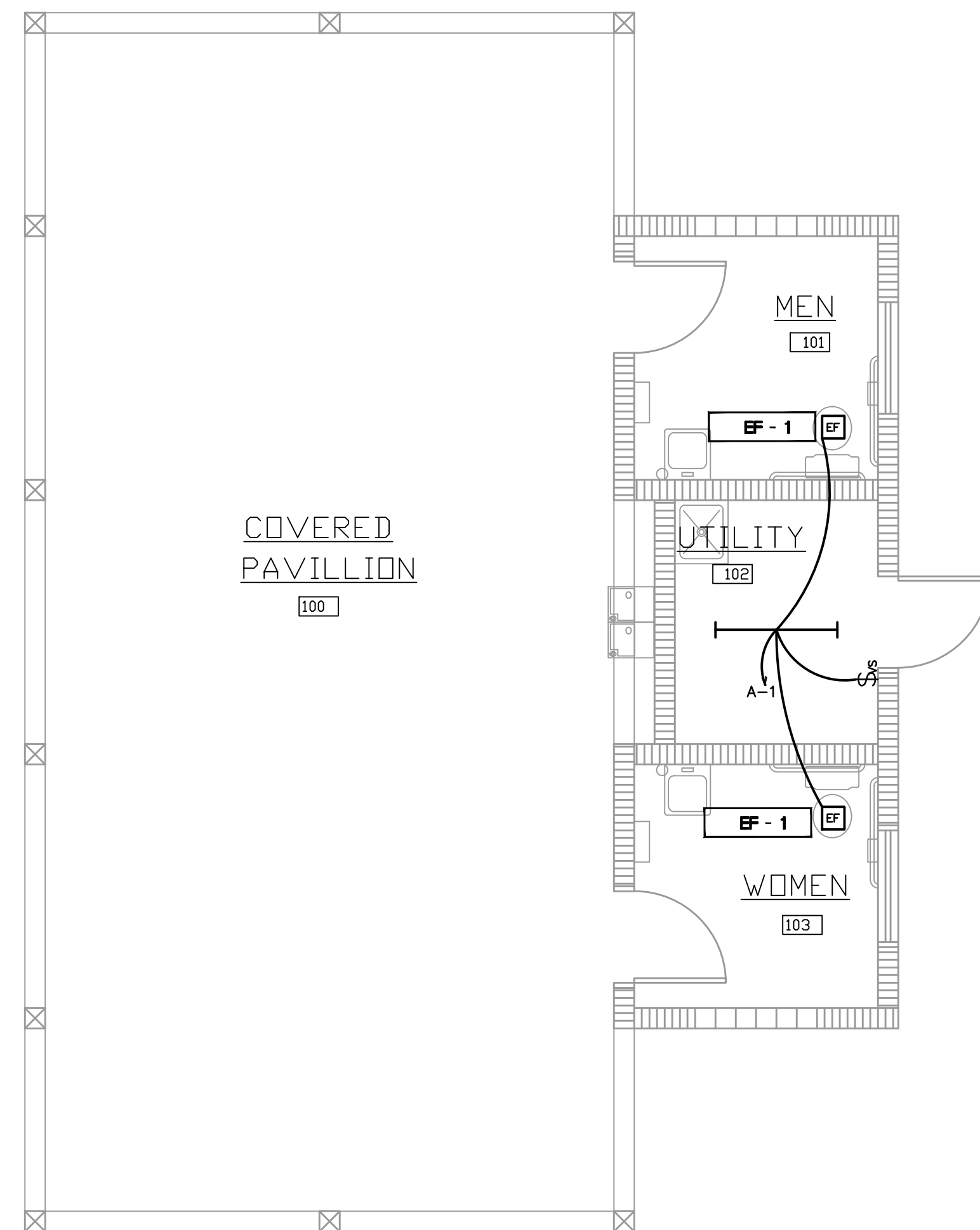
Project:

New Restroom/Pavillion
at
Jones' Pier
for
Indian River County Parks
Division
Indian River County, Florida

Key Plan:

Issues:

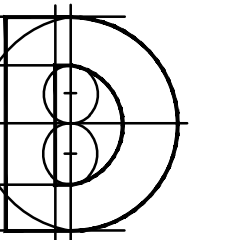
No.:	Date:	Description:
A.	11/02/18	CLIENT REVIEW



ELECTRICAL PLAN

1/4"=1'-0"

Architect:



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& Associates, Architects P.A.

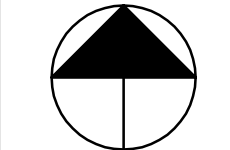
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LIGHTING PLAN

Reference North



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MT

XREF File:

AJD

Project No.:

2018-23.002

Plot File:

Sheet No.:

Cert. No.: 12456

Date Signed:

E2.1

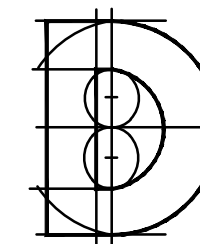
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KAMM CONSULTING PROJECT #:	2019-0073
PROJECT MANAGER:	DIANE MILLAR
	1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772-595-1744 bbrown@kammconsulting.com Certification of Authorization #8189
PRINCIPAL	date
Brady L. Brown	Florida License #58232
	signed

New Restroom/Pavillion at Jones' Pier for Indian River County Parks Division Indian River County, Florida

Key Plan:

Issues table with columns: No., Date, Description. Row 1: A, 11/02/18, CLIENT REVIEW

Architect:



DONADIO & Associates, Architects P.A.

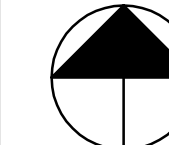
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Drawing Title:

MECHANICAL NOTES

Reference North



Revision table with columns: Dwn, Dwg. File, Chd, XREF File, Project No., Plot File, Sheet No.

Cert. No.: 12456

Date Signed:

M0.1

MECHANICAL SHEET INDEX

Sheet index table with columns: SHEET#, DESCRIPTION. Rows: M0.1 MECHANICAL NOTES, LEGEND & INDEX; M2.1 MECHANICAL FLOOR PLAN

MECHANICAL LEGEND

Mechanical legend symbols and definitions including supply air ceiling diffuser, return air ceiling grille, wall louver, linear diffuser, manual volume control damper, motorized damper, fire damper, reducer or increaser, flex duct, existing flex duct, existing ductwork, etc.

NOT ALL SYMBOLS MAY APPLY TO THESE PLANS

HVAC ABBREVIATION LEGEND

Table of HVAC abbreviations: AC AIR CONDITIONING, AFF ABOVE FINISH FLOOR, BDD BACK DRAFT DAMPER, CD CONDENSATE DRAIN, COP COEFFICIENT OF PERFORMANCE, etc.

NOTE: NOT ALL SYMBOLS MAY APPLY TO THESE PLANS.

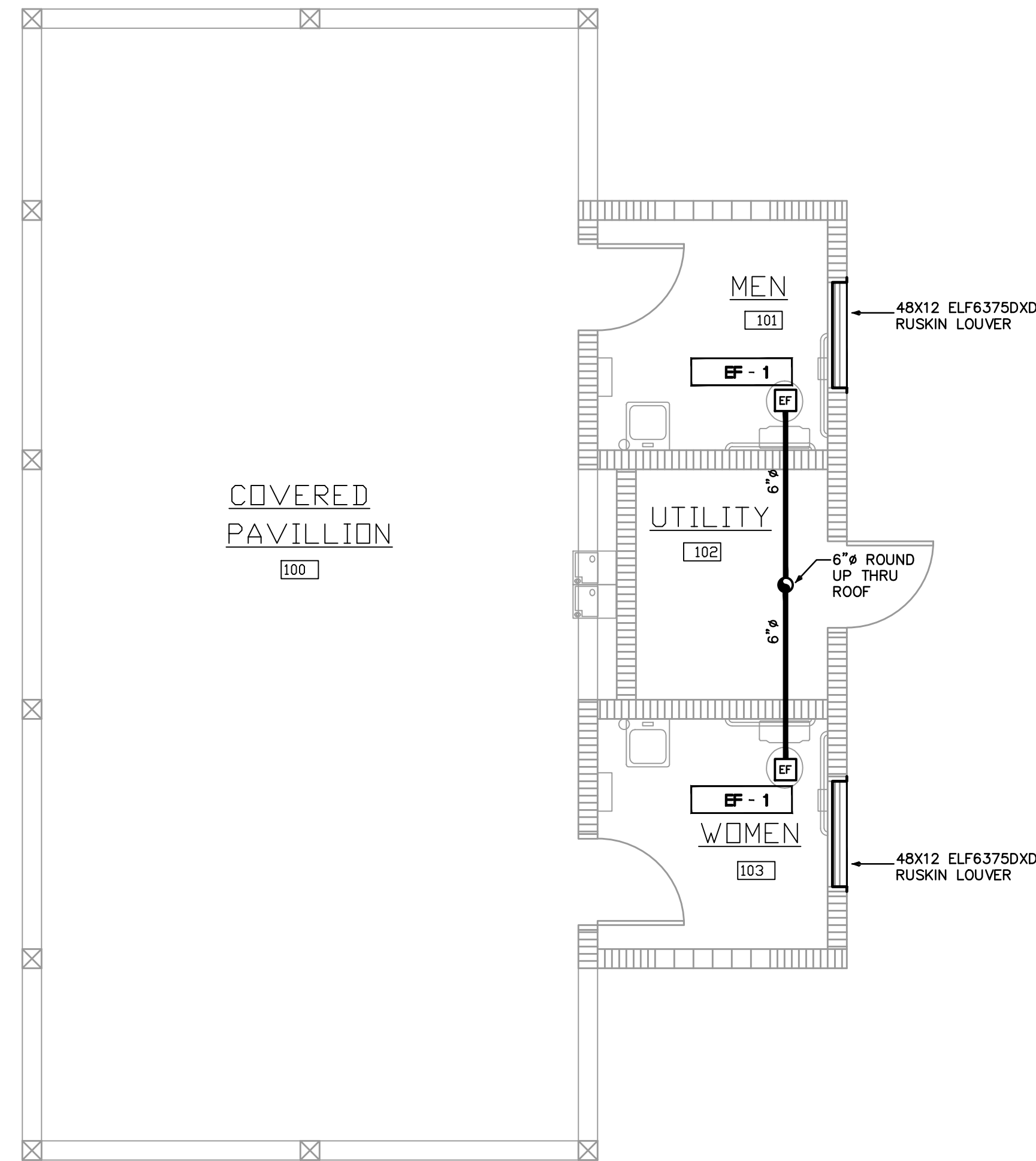
MECHANICAL NOTES

- 1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS...
- 15. ARMAFLEX INSULATION SHALL BE USED FOR SUCTION LINES (1/2" FOR ABOVE 40' F AND 1" FOR BELOW 40' F) PER FLORIDA ENERGY CODE TABLE C403.2.8 FOR PIPING INSULATION...

FAN SCHEDULE

Fan schedule table with columns: SELECTION DATA (TAG, SERVICE AREA, MANUF.(*), MODEL, CONFIG., CFM, ESP, SONES, HP, RPM, DRIVE, VOLTAGE), MOTOR DATA (WEIGHT, DIMENSIONS, OPENING, CONTROL, ACCESSORIES), and GENERAL FAN NOTES.

Issued for review/Not for pricing or construction stamp from KAMM CONSULTING PROJECT # 2019-0073, PROJECT MANAGER: DIANE MILLAR, 1408 Orange Avenue, Fort Pierce, Florida 34950.



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

ISSUED FOR REVIEW		NOT FOR PRICING OR CONSTRUCTION	
KAMM CONSULTING PROJECT # 2019-0073			
PROJECT MANAGER: DIANE MILLAR			
KAMM Consulting		1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772-595-1744 bbrown@kammconsulting.com Certification of Authorization #8189	
PRINCIPAL	Florida License #58232	date	signed
Brady L. Brown			

Project:

New Restroom/Pavillion
at
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Indian River County, Florida

Key Plan:

Issues:

No.:	Date:	Description:
A.	11/02/18	CLIENT REVIEW

Architect:

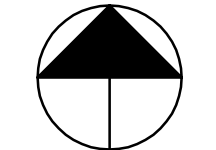
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Drawing Title:

MECHANICAL PLAN

Reference North



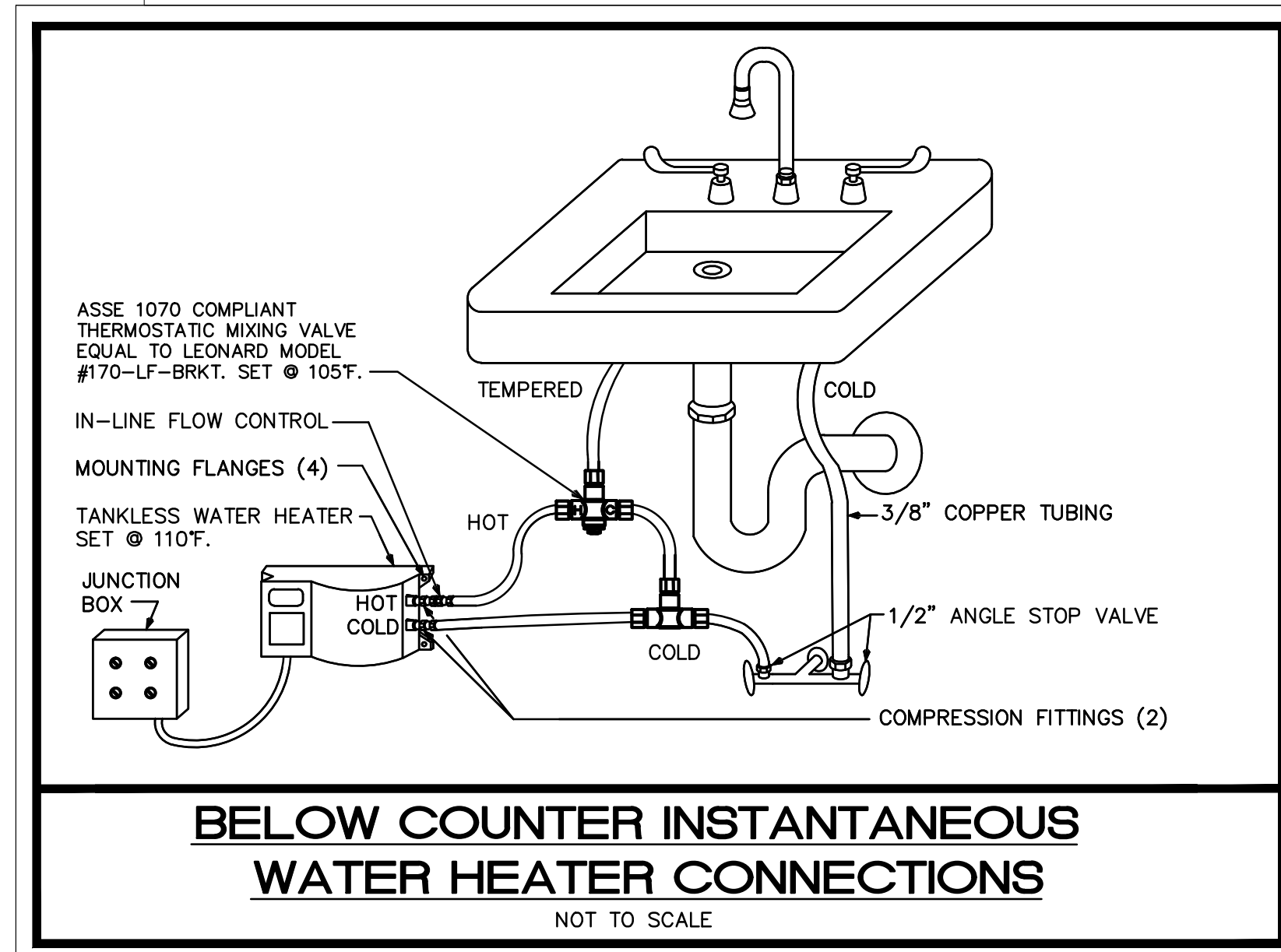
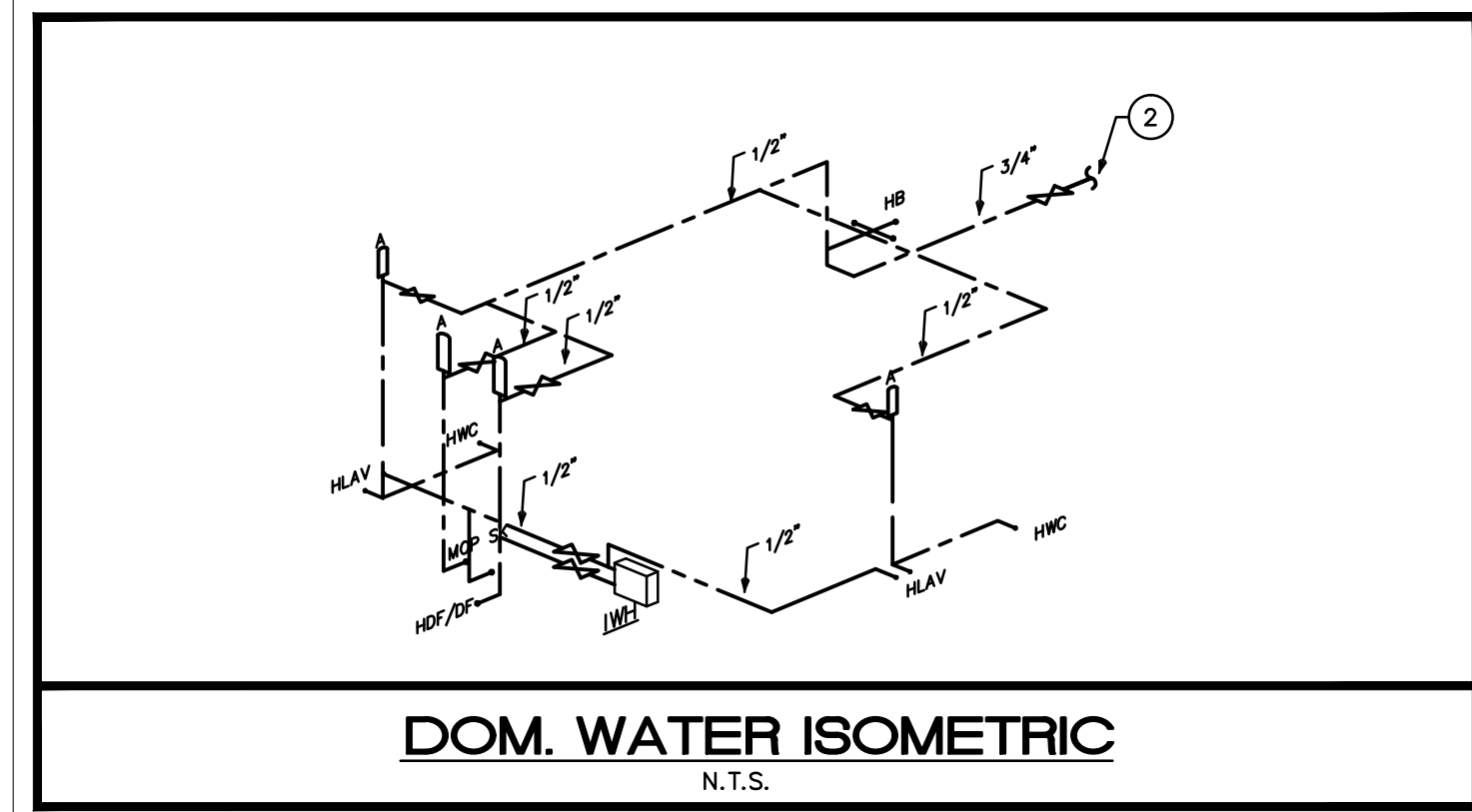
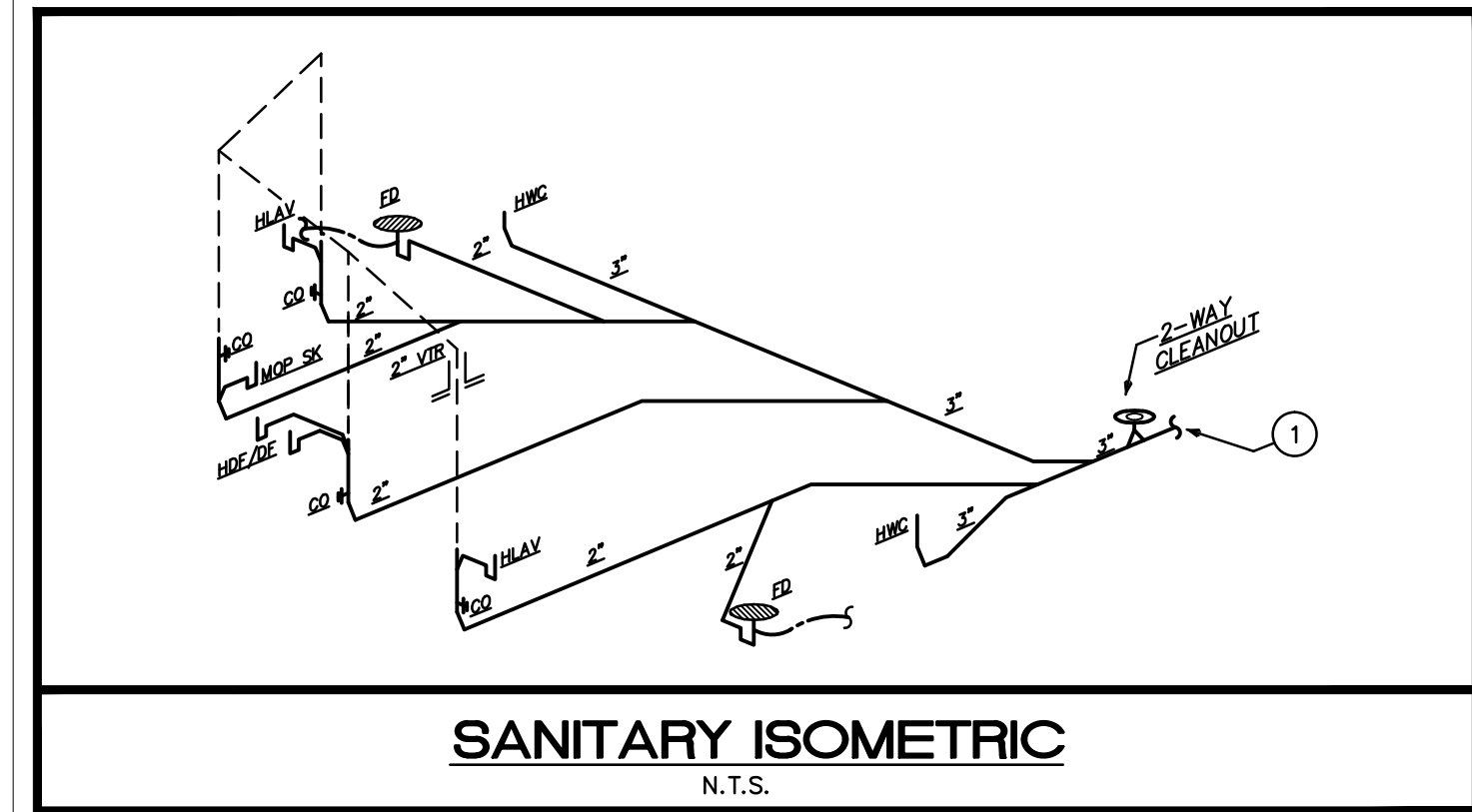
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XREF File:	AJD
Project No.:	2018-23.002
Plot File:	
Sheet No.:	

Cert. No.: 12456

Date Signed:

M2.1

PLUMBING FIXTURE SCHEDULE	
HWC	HANDICAP WATER CLOSET - FLUSH VALVE BOWL, FLOOR MOUNTED, STAINLESS STEEL WITH ELONGATED RIM AND 1-1/2" TOP SPUD. 18" HIGH ACORN PENAL-WARE 1695-W-3 AQUAMETER, 1.8 GPF TOILET WITH SLOAN ROYAL #111 FLUSH VALVE AND A CENTOCO #500CC OPEN FRONT SEAT LESS COVER.
HLAV	HANDICAP LAVATORY, ACORN PENAL-WARE WALL HUNG STAINLESS STEEL LAVATORY MODEL #1652-ADA-1-BP-4 WITH SLOAN POLARIS FAUCET #SL-2711. CONTRACTOR TO SUPPLY CONCEALED ARM SUPPORT CARRIER FOR MOUNTING OF LAV. WADE MODEL # 520-M36. SUPPLY PLUMBEREX MODEL # 4333 INSULATION KIT. MUST MEET A.D.A. CODE.
IWH	TANKLESS WATER HEATER SHALL BE BOSCH "POWERSTAR" MODEL # AE9.5, 208V, 1 PHASE, 3.5 KW.
MOP SK	STERN WILLIAMS MODEL # MTB-3624-BP MOLDED TERRAZZO BASIN WITH DRAIN BODY AND STRAINER. STERN WILLIAMS FAUCET MODEL #T-10-VB, CAST BRASS SUPPLY. FITTINGS: 3/4" HOSE COUPLING DISCHARGE. PAUL HOOK AND TOP BRACE. VACUUM BREAKER, T-40 MOP HANGER AND BP SPLASH CATCHER/WALL GUARD.
GENERAL NOTES: (1) - FIXTURES SHALL BE AS SHOWN OR EQUAL. (2) - ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 OF FBC 2017 (3) - ALL FIXTURE TRIM PACKAGES INCLUDING BUT NOT LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE, SUPPLY TUBES, AND CLEANOUT COVER PLATES SHALL BE OF THE SAME FINISH AS THE ABOVE SPECIFIED FAUCET AND PER ARCHITECTURAL FINISH SCHEDULE. (4) - ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER CUT SHEET TO MAINTAIN UNIFORMITY.	



- KEY NOTES**
1. EXTEND SANITARY LINE TO EXISTING SEWER. SEE CIVIL FOR CONNECTION.
 2. EXTEND DOMESTIC LINE TO EXISTING SERVICE METER. SEE CIVIL FOR CONNECTION.

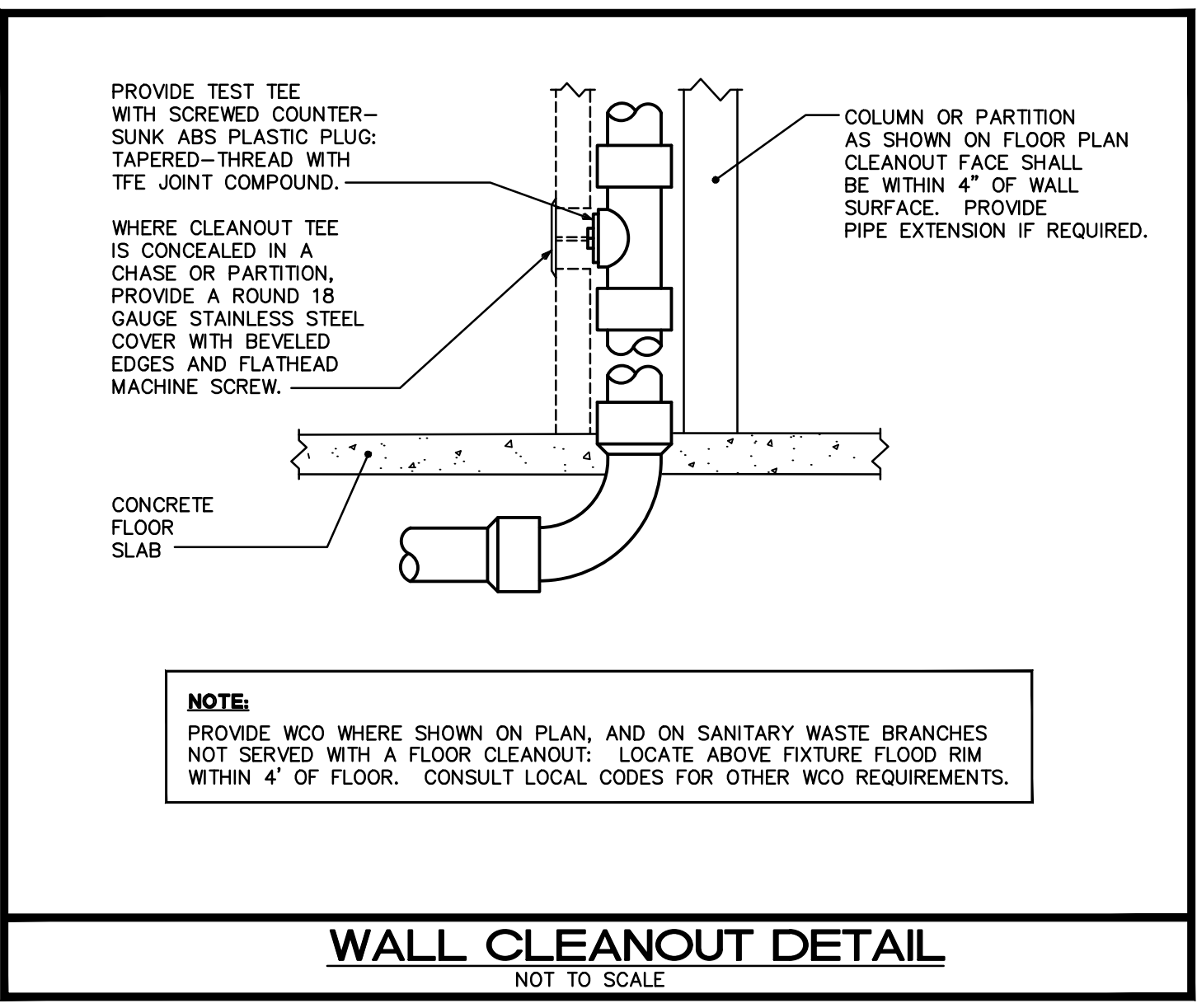
- PLUMBING NOTES**
1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SCOPE OF WORK. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE FLORIDA BUILDING CODE 5th EDITION (2017) - PLUMBING, APPLICABLE LOCAL CODES, RULES, AND ORDINANCES.
 2. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
 3. ALL MATERIALS SHALL BE NEW AND OF GOOD QUALITY.
 4. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY-OPERATIONAL. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
 5. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
 6. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS. PLUMBING CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
 7. CONTRACTOR SHALL SUBMIT TO ARCHITECT/ENGINEER, FOR REVIEW & APPROVAL, FIVE (5) SETS OF MANUFACTURER'S CUT SHEETS FOR EACH FIXTURE, PIPING/FITTING MATERIAL AND EQUIPMENT ITEM WITH ASSOCIATED CONTROLS, THAT ARE INCLUDED IN THE CONTRACT.
 8. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
 9. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ARCHITECT/ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
 10. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERT ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
 11. WATER DISTRIBUTION PIPING ABOVE AND BELOW GROUND SHALL BE TYPE "L" COPPER. ALTERNATE PIPING & FITTING MATERIALS MAY BE USED IN ACCORDANCE WITH FLORIDA BUILDING CODE 5th EDITION (2017) - PLUMBING, TABLES 605.3, 605.4 & 605.5, WHEN APPROVED BY ENGINEER OF RECORD AND LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE ALTERNATE FOR CPVC PIPING & FITTINGS EQUAL TO LUBRIZOL CORZAN OR FLOW-GUARD GOLD. PROVIDE ALTERNATE FOR PEX TYPE "A" PIPING & FITTINGS EQUAL TO UPONOR. ALTERNATES ARE PERTINENT FOR WATER SERVICES KNOWN OR DETERMINED TO HAVE ACIDIC CHARACTERISTICS OR OTHER PARTICULAR CIRCUMSTANCES AS DEEMED APPROPRIATE BY DIRECTIVE FROM THE OWNER. CONTRACTOR SHALL PERFORM A WATER TEST TO DETERMINE WATER CHEMISTRY PRIOR TO ANY WORK OR PIPING INSTALLATION AND SHALL SUBMIT TEST RESULTS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. DISINFECTION OF POTABLE WATER SYSTEM SHALL COMPLY WITH FLORIDA BUILDING CODE 5th EDITION (2017) - PLUMBING, SECTION 610. ALL WATER PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
 12. SOIL, WASTE, VENT, AND RAINWATER (DWR) PIPING & FITTINGS SHALL BE CAST IRON OR PVC, WHERE CODE ALLOWS. PVC MAY NOT BE USED THRU RATED ASSEMBLIES OR IN PLENUMS. PVC PIPING SHALL BE SOLID-CORE ONLY; FOAM-CORE PIPING SHALL NOT BE ACCEPTED. CAST IRON PIPING & FITTINGS SHALL BEAR THE CSPI-301 MARK. ALL DWV PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
 13. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE ANGLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS (WHERE REQUIRED). COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
 14. PROVIDE APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED & LOCATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS & PDI-WH201.
 15. PROVIDE DIELECTRIC COUPLINGS OR FLANGES BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS.
 16. ISOLATE COPPER PIPING FROM METALLIC HANGERS OR SUPPORTS WITH ISOLATOR PADS OR NON-CONDUCTIVE MATERIAL.
 17. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING ANNULAR SPACE BETWEEN PIPING AND SLEEVES WITH INTUMESCENT CAULK, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS, AS PART OF THE PLUMBING CONTRACTOR'S WORK.
 18. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
 19. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS SHALL MAINTAIN THE SAME RATING AND SHALL MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
 20. PROVIDE COMBINATION CLEANOUT PLUG AND COVER PLATE OR ACCESS PANEL FOR ALL WALL CLEANOUTS. FINISH TO MATCH NEARBY FIXTURE TRIM.
 21. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN MECHANICAL ROOMS NOR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
 22. NO WATER, SANITARY OR DRAINAGE PIPING SHALL BE INSTALLED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
 23. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE FURNISHED FOR OWNER/OPERATOR.
 24. CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET PER FLORIDA BUILDING CODE 5th EDITION (2017) - ENERGY CONSERVATION, TABLE C403.2.8. PVC WITHOUT INSULATION IS ACCEPTABLE FOR RISERS AND BELOW GRADE PIPING. WHEN USED IN A RETURN AIR PLENUM, PVC PIPING WITH INSULATION IS ACCEPTABLE IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. CONDENSATE PIPING SHALL NOT DRAIN ONTO THE ROOFING SYSTEM NOR ANY OF ITS COMPONENTS. CONDENSATE PIPING ARRANGEMENT IS EXEMPT FROM MINIMUM EQUIPMENT CLEARANCE REQUIREMENTS PER FLORIDA BUILDING CODE 5th EDITION (2017), SECTION 1522.3.5. ALL HORIZONTAL RAINWATER PIPING RUN ABOVE FINISHED FLOOR THAT RECEIVES CONDENSATE DISCHARGE SHALL BE INSULATED WITH ARMAFLEX AND A VAPOR-BARRIER JACKET.
 25. HOT WATER PIPING INSULATION SHALL BE PROVIDED IN ACCORDANCE WITH FLORIDA BUILDING CODE 5th EDITION (2017) - PLUMBING, TABLE 607.5 & FLORIDA BUILDING CODE 5th EDITION (2017) - ENERGY CONSERVATION, TABLE C403.2.8. CONTRACTOR SHALL USE ARMAFLEX OR EQUAL WHERE APPLICABLE. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET, PER FLORIDA BUILDING CODE 5th EDITION (2017) - ENERGY CONSERVATION, TABLE C403.2.8.
 26. AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
 27. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
 28. STUDOR MINI/MAXI AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTABLE BY THE PLUMBING OFFICIAL AND LOCAL CODES. INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
 29. ALL HORIZONTAL RAINWATER PIPING THE RECEIVES CONDENSATE DISCHARGE FROM AIR CONDITIONING EQUIPMENT SHALL BE INSULATED WITH 1" THK. ARMAFLEX.
 30. PLUMBING PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, FIRE SPRINKLER, STRUCTURAL AND CIVIL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. PIPING MODIFICATIONS SUCH AS OFFSETS, BENDS, TRANSITIONS, AND SIZES SHALL BE REQUIRED TO PROVIDE A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN PIPE SIZES AND ROUTING SHALL BE REQUIRED BY THE CONTRACTOR TO AVOID CONFLICTS AND TO ADAPT TO EXISTING FIELD CONDITIONS PROVIDED THAT INSTALLATION MEETS ALL APPLICABLE CODES.
 31. SUPPLY TRAP PRIMER FOR ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS, ETC. SHOWN ON PLANS.
 32. CONTRACTOR TO FIELD VERIFY ALL SUPPLY PRESSURE REQUIREMENTS AND LIMITATIONS. PROVIDE PRESSURE REDUCING VALVE IF REQUIRED.
 33. ANY REFERENCE OR APPLICATION OF DENTAL COMPRESSED AIR AS NOTED ON THIS PLAN IS NOT USED OR INTENDED FOR LIFE-SUPPORT PURPOSES SUCH AS RESPIRATORS, IPPB MACHINES, ANALGESIA, ANESTHESIA, ETC. THE ONLY USE IS AS INCIDENTAL AIR DISCHARGE INTO THE ORAL CAVITY AND NOT A PRIMARY OR SECONDARY SOURCE OF AIR TO SUSTAIN LIFE.

PLUMBING SHEET INDEX

SHEET#	DESCRIPTION
P.0.1	PLUMBING NOTES, LEGENDS, AND DETAILS
P.2.1	SANITARY PLAN
P.3.1	DOMESTIC WATER PLAN

PLUMBING LEGEND

CO	CLEAN OUT	—S—S	SANITARY SEWER PIPING
S.O.V.	SHUT-OFF VALVE	—D—D	VENT PIPING
COTC	CLEAN OUT TO GRADE	—S—S	DOMESTIC COLD WATER PIPING
FS	FLOOR SINK	—S—S	HOT WATER PIPING (110°)
CW	DOMESTIC COLD WATER	—S—S	HOT WATER PIPING (140°)
HW	DOMESTIC HOT WATER	—S—S	HOT WATER RECIRCULATING PIPING
HWR	DOMESTIC HOT WATER RECIRCULATING	—CD—	CONDENSATE PIPING
HB	HOSE BIBB	—CA—	COMPRESSED AIR PIPING
VTR	VENT THRU ROOF	—T&P—	TEMPERATURE AND PRESSURE RELIEF
	GATE VALVE	—SD—	STORM DRAIN PIPING
	GLOBE VALVE	—G—	GAS PIPING
	CHECK VALVE	—R—	PIPE RISE UP
	GAS SOLENOID VALVE	—D—	PIPE DOWN OR DROP
	GAS COCK	—C—	CAPPED END OF PIPE
	WATER HAMMER ARRESTER (PDI No.)	—W—	POINT OF CONNECTION
FD	FLOOR DRAIN	—T—	P-TRAP



SHOCK ARRESTOR SCHEDULE

P.D.I. DESIGNATION	MANUF. & MODEL	FIXTURE UNITS	CONNECTION
A	SIoux CHIEF 652-A	1-11	1/2"
B	SIoux CHIEF 653-B	12-32	3/4"
C	SIoux CHIEF 654-C	33-60	1"

SIoux CHIEF SHOCK ARRESTORS APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSI/ASSE 1010 STANDARDS.

SLOPE OF HORIZ. DRAINAGE PIPE

SIZE (inches)	MINIMUM SLOPE (Inch per foot)
2-1/2 or less	1/4
3 to 6	1/8
8 or larger	1/16

TABLE 704.1 OF THE FLORIDA PLUMBING CODE 2017

ISSUED FOR REVIEW
NOT FOR PRICING OR CONSTRUCTION

KAMM CONSULTING PROJECT # 2019-0073
PROJECT MANAGER: DUANE MILLAR

KAMM Consulting
1408 Orange Avenue
Fort Pierce, Florida 34950
Phone 772-595-1744
hbrown@kammconsulting.com
Certification of Authorization #8189

PRINCIPAL
Brady L. Brown Florida License #58232

date _____
signed _____

Project: **New Restroom/Pavillion at Jones' Pier for Indian River County Parks Division Indian River County, Florida**

Key Plan:

Issues:
No.: _____ Date: _____ Description: _____
A. 11/02/18 CLIENT REVIEW

Architect: **DONADIO & Associates, Architects P.A.**
609 17th Street
Vero Beach, FL 32960
Tel 772 794 2629
Fax 772 562 8900
License No. AA002238
www.donadio-arch.com

Consultant:

Drawing Title: **PLUMBING NOTES**

Reference North

Dm: _____ Dwg. File: _____
Chd: _____ XREF File: _____
Project No.: _____ Plot File: _____
2018-23.002
Sheet No.: _____

Cert. No.: 12456
Date Signed: _____

P0.1

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Project:

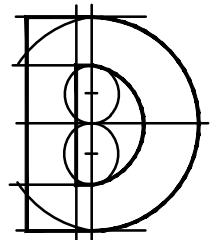
New Restroom/Pavillion
at
Jones' Pier
for
Indian River County Parks
Division
Indian River County, Florida

Key Plan:

Issues:

No.:	Date:	Description:
A.	11/02/18	CLIENT REVIEW

Architect:



DONADIO
& Associates, Architects P.A.

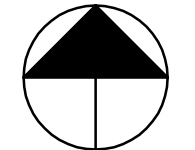
609 17th Street
Vero Beach, FL 32960
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Fax: 772 562 8900
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Consultant:

Drawing Title:

SANITARY PLAN

Reference North



Dwn: MT Dwg. File:

Chd: XREF File:

AJD

Project No.: Plot File:

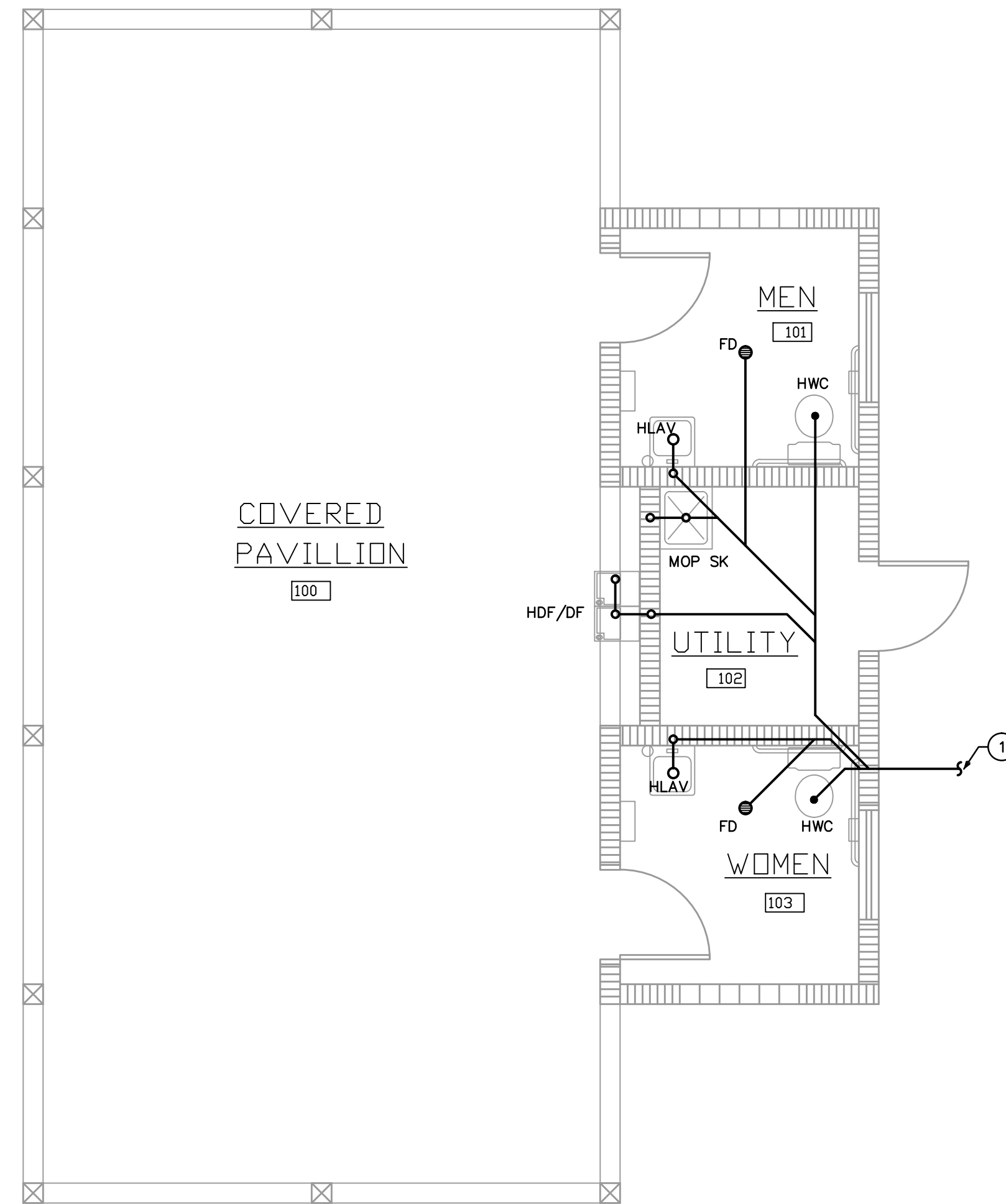
2018-23.002

Sheet No.:

Cert. No.: 12456

Date Signed:

P2.1



SANITARY PLAN

1/4"=1'-0"

KEY NOTES

① CONNECT NEW SANITARY TO NEW SEWER LATERAL AS REQUIRED. SEE CIVIL SHEETS FOR CONTINUATION. COORDINATE INVERT ELEVATION AS REQUIRED PRIOR TO CONSTRUCTION.

ISSUED FOR REVIEW
NOT FOR PRICING OR CONSTRUCTION

KAMM CONSULTING PROJECT # 2019-0073
PROJECT MANAGER: DIANE MILLAR

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bhrown@kammconsulting.com
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PRINCIPAL
Brady L. Brown Florida License #58232 date _____ signed _____

Project:

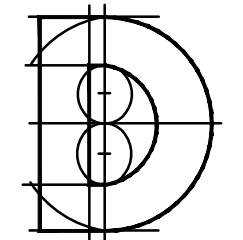
New Restroom/Pavillion
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for
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Division
Indian River County, Florida

Key Plan:

Issues:

No.:	Date:	Description:
A.	11/02/18	CLIENT REVIEW

Architect:



DONADIO
& Associates, Architects P.A.

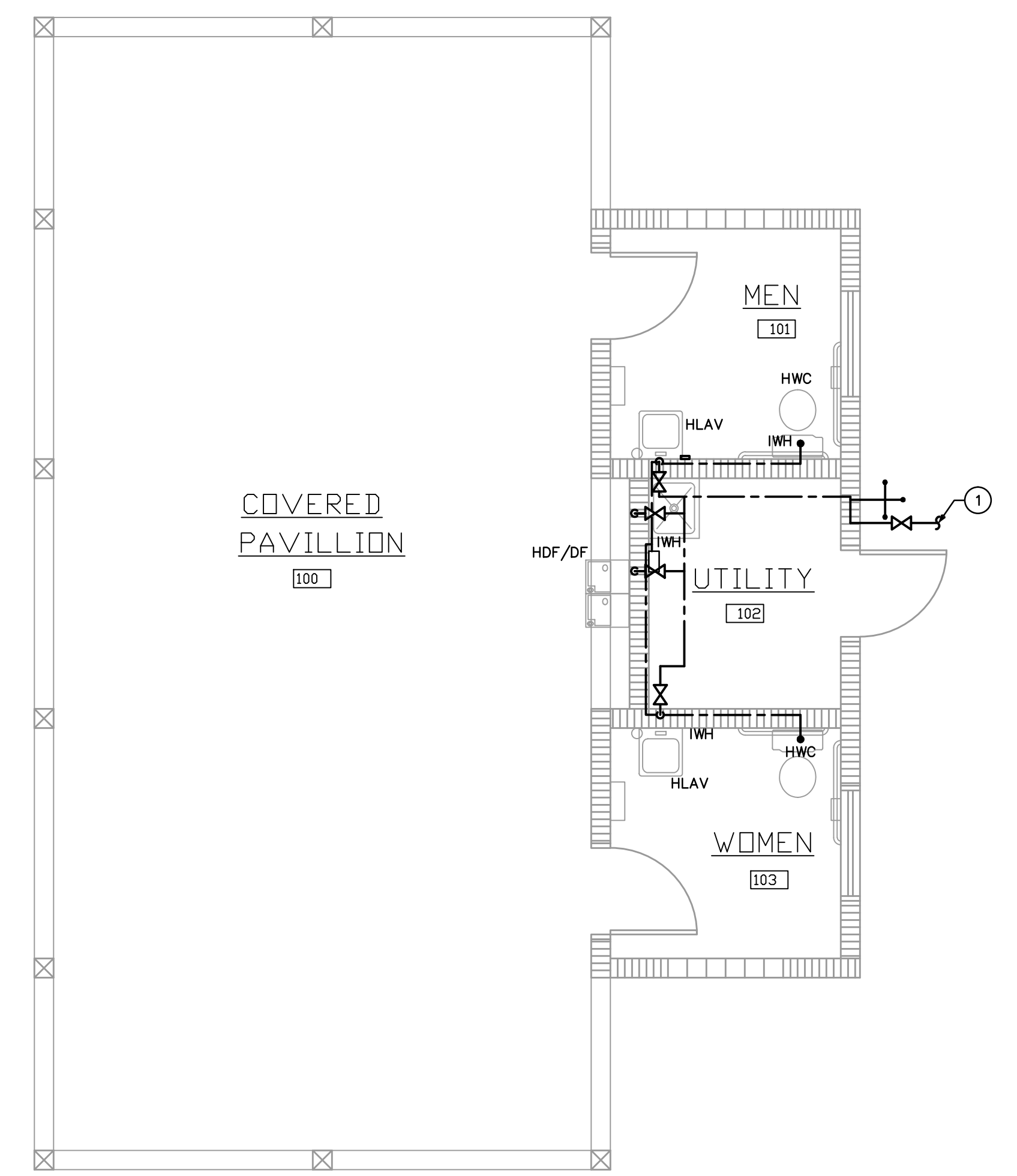
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Consultant:

KEY NOTES	
①	CONNECT TO NEW WATER SERVICE AND METER AS REQUIRED. SEE CIVIL SHEETS FOR EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION.

DOMESTIC WATER PLAN

1/4"=1'-0"

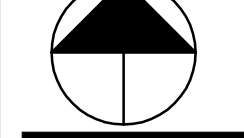


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KAMM CONSULTING PROJECT #: 2019-0073	
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PRINCIPAL	date
Brady L. Brown	Florida License #58232
	signed

Drawing Title:

DOMESTIC WATER PLAN

Reference North



Dwn: _____ Dwg. File: _____
 Chd: MT XREF File: _____
 Project No.: 2018-23.002
 Plot File: _____
 Sheet No.: _____

Cert. No.: 12456

Date Signed: _____

P3.1