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

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MEP ENGINEER KAMM ENGINEERING INC. 1408 Orange Avenue Ft. Pierce, Florida 34950 Tel.: 772/595-1744

# INDIAN RIVER COUNTY, FLORIDA

## FEBRUARY 05, 2019 BID SET



609 17th Street Vero Beach, FL 32960 Tel.772.794.2929 Fax.772.562.8600 www.donadio-arch.com License No. AA0002238

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## INDEX OF DRAWINGS

Name SHEET / INDEX OF DRAWINGS

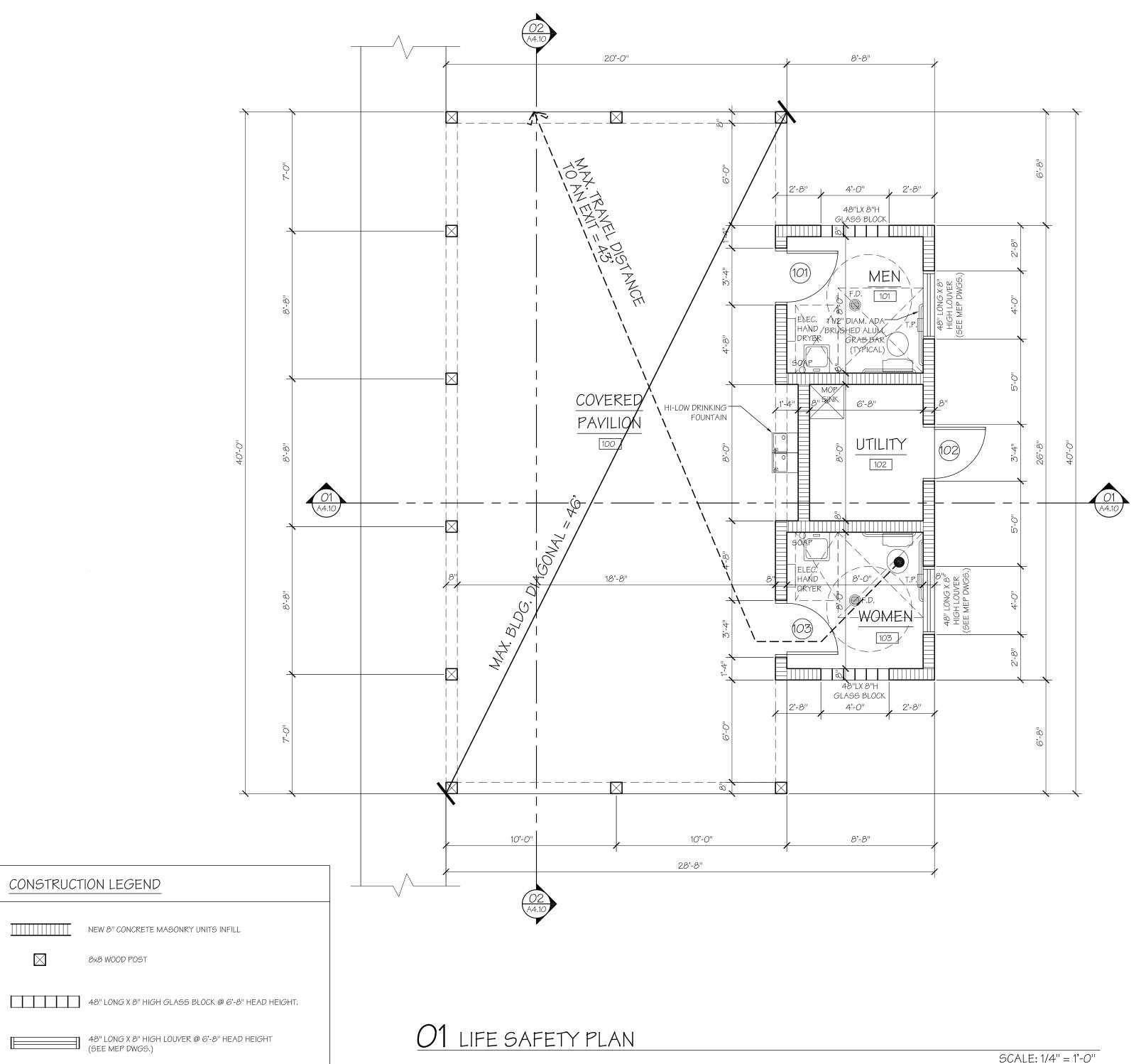
## DRAWINGS

Name REVIEW / LIFE SAFETY R PLAN, ROOF PLAN TIONS

### WINGS

Name CTURAL NOTES DATION PLAN, FRAMING PLAN, ROOF 6, SECTIONS AND STRUCTURAL DETAILS

Name **RICAL NOTES** ELECTRICAL PLAN MECHANICAL NOTES MECHANICAL PLAN PLUMBING NOTES SANITARY PLAN DOMESTIC WATER PLAN



 $\boxtimes$ 

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 (TI-II). The pavilion will be supported by ten (10) 8"x8" WD posts. Utilities include water and electricity only.

### <u>REFERENCE CODES</u> Florida Building Code 2017 – Building

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

## 1) <u>USE AND OCCUPANCY CLASSIFICATION</u> FBC Assembly Group A; A-5; LSC 6.1.2; 12.1.2

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

### 3) <u>GENERAL BUILDING HEIGHTS AND AREAS</u> FBC CH. 5

L D	сн. 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.
	0		, I
IV)	Mixed Use and Occupancy		
	FBC 508; FBC TABLE 508.4		
	N/A		
V)	Incidental Uses		
	FBC 509; TABLE 509		
	N/A		
TYF	PES OF CONSTRUCTION		
-	C CH.6; FBC 602.5; Type V-B; LSC TABLE 12.1.6; Ty	pe \	/ (000)
I)	Fire-Resistance Rating Requirements for Building	Ele	<u>ments (Hours)</u>
	a) Bearing Walls (Interior and Exterior)	=	0
	b) Non-Bearing Walls/Partitions	=	Õ
	c) Roof Construction	=	0
			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) <u>Exterior Walls</u> FBC 705

4)

6)

- a) <u>Projections</u> FBC 705.2
  - The only projections from exterior walls are the 2'-0" exposed roof rafter tails.
- b) <u>Maximum Area of Exterior Wall Openings Based on Fire</u> <u>Separation Distance and Degree of Opening Protection</u> FBC TABLE 705.8
  - North, South, West & East > 30' = No Limit
- c) <u>Concealed Spaces</u> i) FBC 718; 718.2 Fire blocking not required, main roof structure exposed, not concealed.

  - ii) <u>Draftstopping in Attics</u> FBC 718.4.1; 718.4.3
- Roof area = 1.013.36 sq. ft. < 3,000 sq. ft. = Not Required <u>INTERIOR FINISHES</u> 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					
		С					

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

<u>Interior Floor Finish</u> FBC 804; 804.4.2; LSC 12.3.3.5 ii) Not less than Class II Critical Radiant Flux.

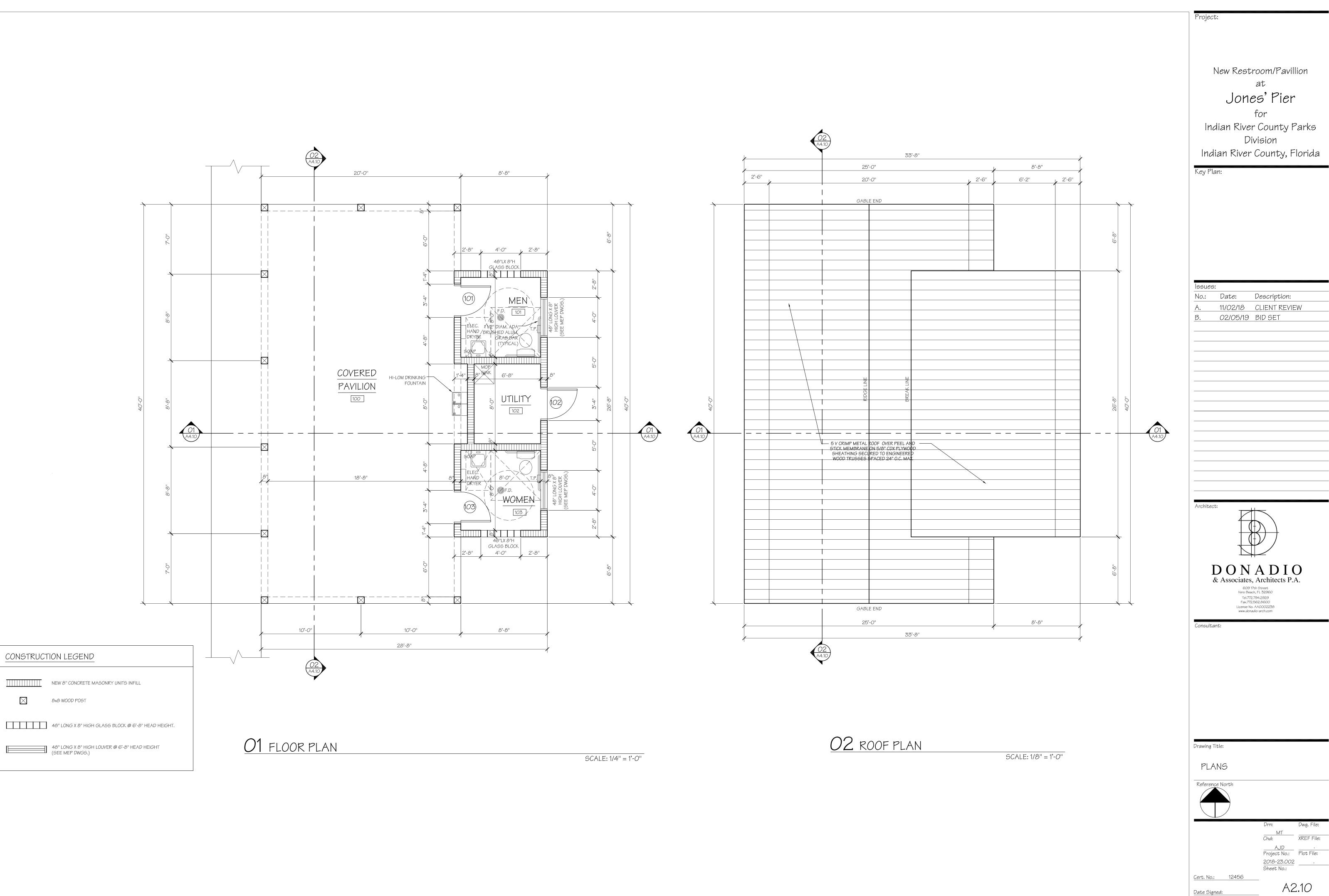
### FIRE PROTECTION SYSTEM FBC CH.9 7)

- <u>Automatic Sprinkler Systems</u> FBC CH.9; FBC 903; 903.2.1.5; LSC 12.3.4.1.1 I) N/A Area 800 sq. ft < 1,000 sq. ft.
- Occupant Load; 1,013.36 ÷ 145 < 300
- Portable Fire Extinguishers FBC 906 II) N/A
- III) <u>Fire Alarm and Detection Systems</u> FBC 907; LSC 12.3.4
  - N/A Occupant Load 114 < 300

		Project:
	NS OF EGRESS CH. 10; LSC 12.2 <u>General Means of Egress</u> EBC 1002: 1002 2	
	FBC 1003; 1003.2 Means of Egress Ceiling Height; 8'-8" > 7'-6"	New Restroom/Pavillion
II)	<u>Occupant Load</u> FBC 1004; FBC Table 1004.1.2; LSC TABLE 7.3.1.2; 12.1.7	at
	Area of Pavilion; 800 sq. ft. ÷ 15 = 54 Occupants	Jones' Pier
III)	<u>Means of Egress Sizing</u> FBC 1005' 1005.3.2; LSC 12.2.2.2	for
	<ul><li>a) No Exit Doors located within the Pavilion.</li><li>b) Remaining three (3) Doors are 36' W x 7'-0" H.</li></ul>	Indian River County Parks
V)	Number of Exits and Exit Access Doorways	Division
	<ul><li>FBC 1006; FBC 1006.2.1</li><li>a) The Pavilion is open on all four (4) sides.</li></ul>	Indian River County, Florida
	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.	Kayplan
V)	<u>Means of Egress Illumination</u> FBC 1008; LSC 7.8; 12.2.8	Key Plan:
	<ul> <li>i. <u>Illumination Required</u> 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.</li> </ul>	
	<ul> <li>ii. <u>Illumination Level Under Normal Power</u> FBC 1008.2.1 Means of Egress Illumination level shall not be less than 1 Footcandle</li> </ul>	
	(11LUX) at the walking surface.	
i	iii. <u>Emergency Power for Illumination</u> 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 00 minutes and will consist of storage bettering. Unit	lesues:
	a minimum of 90 minutes and will consist of storage batteries, Unit Equipment or an on-site Generator.	No.: Date: Description:
<b>VI)</b>	<u>Accessible Means of Egress</u> FBC 1009; FBC 2017 - Accessibility	A. 02/05/19 BID SET
	a) <u>Accessible Routes</u>	
	<b>FBC 206</b> Provide an accessible route from Parking areas to the covered Pavilion.	
	b) <u>Parking Spaces</u> FBC 208	
	See Civil Engineers Drawings.	
	c) <u>Drinking Fountains</u> One (1) "Hi-Lo" combination provided.	
	d) <u>Toilet Facilities and Bathing Facilities</u> FBC 213; 603	
	Both Toilet Rooms comply with fixtures clear space requirements and maneuverability standards.	
	<ul> <li>e) Doors, Gates and Turnstiles FBC 1010; 1010.1.1; 1010.1.2; 1010.1.3</li> <li>i) Door sizes; 3'-0" W x 7'-0" H;</li> <li>ii) Door swing in Direction of Travel;</li> <li>iii) Side hinged Door type;</li> <li>iv) Door opening force: Not to exceed 5lbs. (22N);</li> </ul>	
	Door release @ 15 lbs. (67N) force Set in motion 30 lbs. (133N) force. f) <u>Exit Signs</u>	
	<b>FBC 1013</b> All Exit Access Doors to be clearly marked with an "Exit Sign".	Architect:
	<ul> <li>g) Exit Access FBC 1016</li> <li>All Exit Access points lead directly to the Building exterior.</li> </ul>	
	h) <u>Exit Access Travel Distance</u> FBC 1017; TABLE 1017.2; LSC 7.5 Maximum Exit Access Travel Distance permitted = 200' Maximum Travel Distance to an Exit = 43' (See Life Safety Plan)	DONADIO & Associates, Architects P.A.
	i) <u>Corridors</u> FBC 1020; LSC 12.3.6 N/A	Vero Beach, FL 32960 Tel.772.794.2929 Fax.772.562.8600 License No. AA0002238 www.donadio-arch.com
	<ul> <li>j) <u>Exit Discharge</u> FBC 1028 All Exit discharge directly to the exterior of the Building.</li> </ul>	Consultant:
	k) <u>Assembly</u> FBC 1029; LSC 12.2.3.6 N/A	
9)	<u>Minimum Plumbing Fixture Count</u> 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	
		Drawing Title:
	PLUMBING FIXTURE COUNT (OCCUPANCY A-5)           Water Closets         Lavatories         Drinking Fountains         Service Sinks           Required         Provided         Required         Provided         Required         Provided	CODE REVIEW / LIFE SAFETY
	Male         1	Reference North
		Drn: Dwg. File: MT
		Chd: XREF File:
		AJD · Project No.: Plot File:
		2018-23.002 Sheet No.:
		Cert. No.: 12456
		Date Signed: A1.10

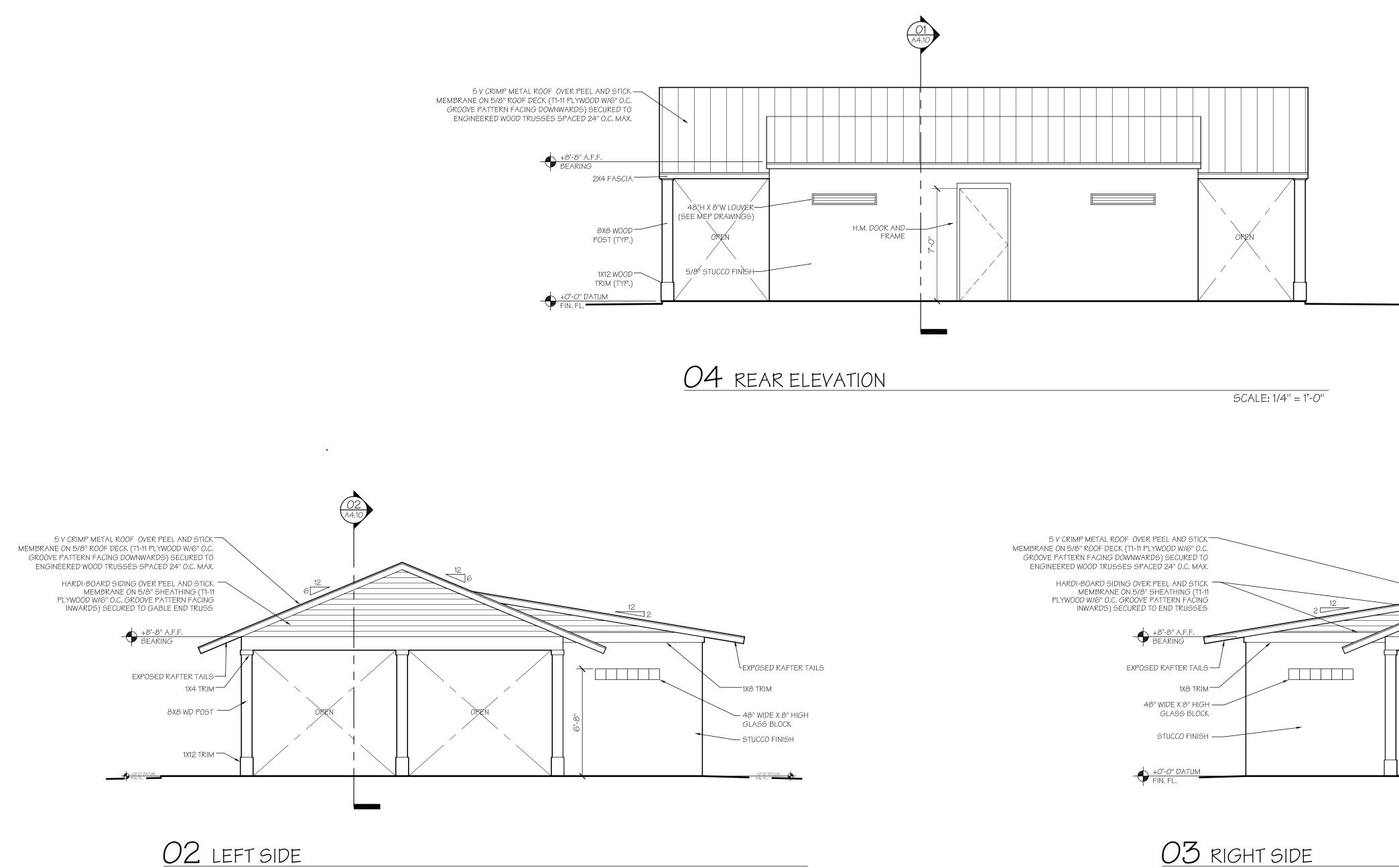
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Date Signed:



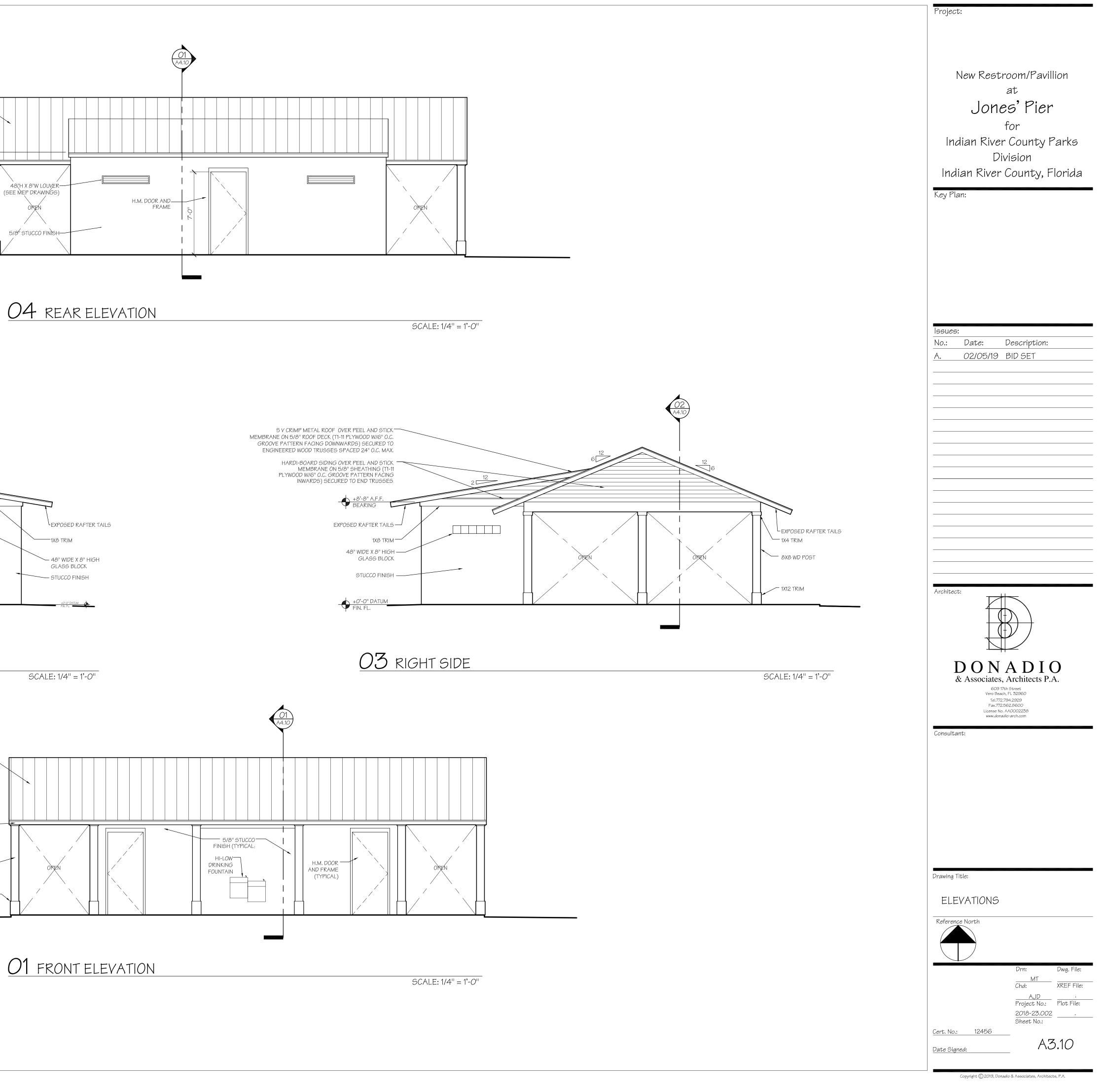
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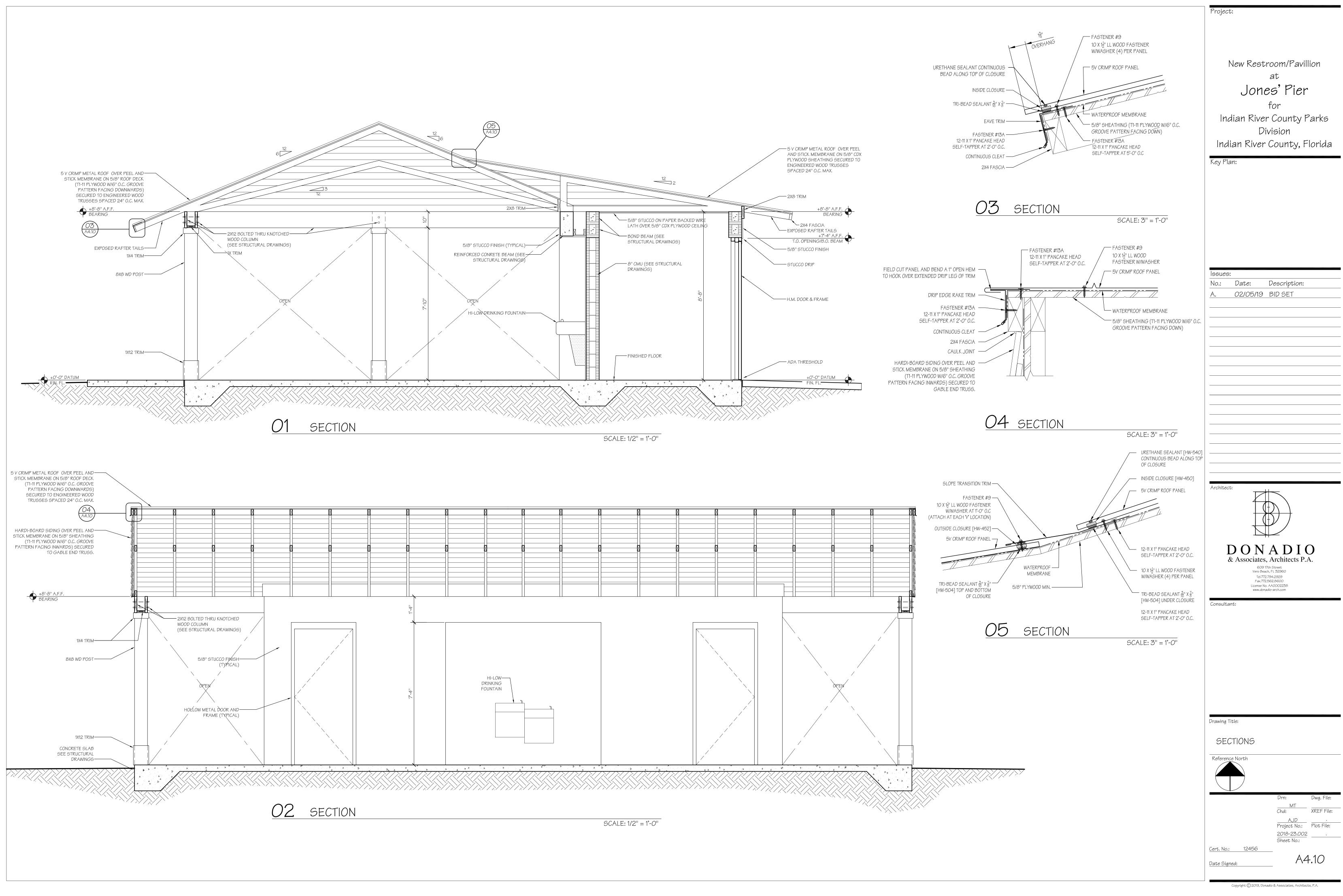
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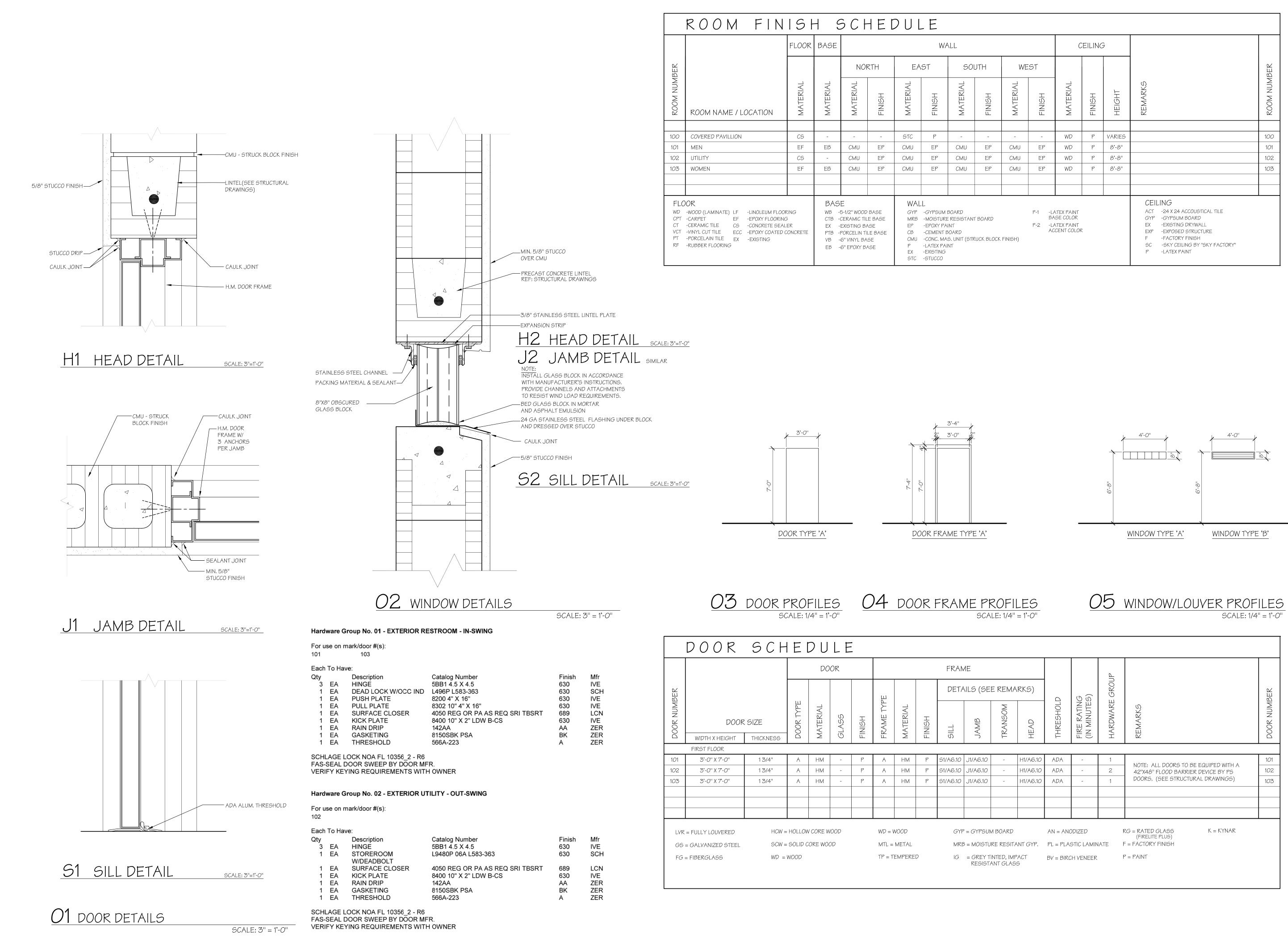


5 V CRIMP METAL ROOF OVER PEEL AND STICK MEMBRANE ON 5/8" ROOF DECK (T1-11 PLYWOOD W/6" O.C. GROOVE PATTERN FACING DOWNWARDS) SECURED TO ENGINEERED WOOD TRUSSES SPACED 24" O.C. MAX.

2X4 FASCIA —







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

MA	RKS)	THRESHOLD	FIRE RATING (IN MINUTES)	HARDWARE GROUP	REMARKS	DOOR NUMBER
	1				•	
	H1/A6.10	ADA	-	1	NOTE: ALL DOORS TO BE EQUIPED WITH A	101
	H1/A6.10	ADA	-	2	42"X48" FLOOD BARRIER DEVICE BY PS	102
	H1/A6.10	ADA	-	1	DOORS. (SEE STRUCTURAL DRAWINGS)	103
RD SITA	NT GYP.	AN = ANC PI = PI AS	DDIZED STIC LAMIN		RG = RATED GLASS K = KYNAR (FIRELITE PLUS) F = FACTORY FINISH	
	ACT		CH VENEER		P = PAINT	

Project: New Restroom/Pavillion at Jones' Pier for Indian River County Parks Division Indian River County, Florida Key Plan: lssues: No.: Date: Description: A. 02/05/19 BID SET Architect: DONADIO & Associates, Architects P.A. 609 17th Street Vero Beach, FL 32960 Tel.772.794.2929 Fax.772.562.8600 License No. AAOOO2238 www.donadio-arch.com Consultant: Drawing Title: SCHEDULES Reference North Dwg. File: XREF File: AJD . Project No.: Plot File: 2018-23.002 Sheet No.: Cert. No.: 12456 A6.10 Date Signed:

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	RUCTURAL-GENERAL NOTES SIGN CRITERIA AND LOADS:	7.	CO
1.	WIND DESIGN:		CO
	WIND SPEED (MPH)V(ADJ)=127V(ULT)=160RISK CATEGORYII		IT C
	EXPOSURE CATEGORY C	_	S
	ENCLOSURE CLASSIFICATIONENCLOSEDINTERNAL PRESSURE COEFFICIENTCPI =+/- 0.18	8.	THI WIF
	ENCLOSURE CLASSIFICATION PARTIALLY ENCLOSED		CLE WIE
	INTERNAL PRESSURE COEFFICIENT CPI =+/- 0.55	9.	IN /
2.	TOPOGRAPHIC FACTOR KZT =1.0 DESIGN LIVE LOADS:	10.	240 REI
Ζ.	a. ROOF LIVE LOAD 20 PSF	10.	CO
3.	DESIGN DEAD LOADS :	11.	EX <sup>-</sup> FOI
	a. ROOF DEAD LOADS: 17 PSF		OR OT
4.	THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY THE STRUCTURAL ENGINEER OF RECORD (SER) OF ANY ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING LOAD	12.	SO
	IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (ARCHITECTURAL/ STRUCTURAL/ MECHANICAL/		ALI INC
	ELECTRICAL OR PLUMBING DRAWINGS). PROVIDE DOCUMENTATION OF LOCATION, LOAD,		PEI
	SIZE AND ANCHORAGE OF ALL UNDOCUMENTED LOADS IN EXCESS OF 400 POUNDS. PROVIDE MARKED-UP STRUCTURAL PLAN INDICATING LOCATIONS OF ANY NEW	13.	SUI ON
	EQUIPMENT OR LOADS. SUBMIT PLANS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION.	14.	FO
GE	NERAL REQUIREMENTS		STI SH
1.	PLAN AND DETAIL NOTES AND SPECIFIC LOADING DATA PROVIDED ON INDIVIDUAL PLANS AND DETAIL DRAWINGS SUPPLEMENTS INFORMATION IN THE STRUCTURAL GENERAL	15.	SPI PR(
	NOTES.	10.	OT
2.	THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE "FLORIDA BUILDING CODE (FBC)", SIXTH EDITION, HEREAFTER REFERRED TO AS THE FBC, AS	16.	CO FILI
	ADOPTED AND MODIFIED BY THE AUTHORITY HAVING JURISDICTION (AHJ).		D17
3.	WHERE OTHER STANDARDS ARE NOTED IN THE DRAWINGS, USE THE LATEST EDITION OF THE STANDARD UNLESS A SPECIFIC DATE IS INDICATED. REFERENCE TO A SPECIFIC	17.	TO VE
	SECTION IN A CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE STANDARD.		SH TO
4.	REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND PLUMBING		BEI
	DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO: DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, STAIRS,	18.	OR CO
	FINISHES, DRAINS, WATERPROOFING, RAILINGS, CURTAIN WALLS, DEPRESSIONS, MECHANICAL UNIT LOCATIONS, AND OTHER NONSTRUCTURAL ITEMS.		a.
5.	THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF THE		b.
	WORK WITH ARCHITECT, ENGINEER(S) AND OTHER TRADES; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION		
	PROCESSES; FOR TECHNIQUES OF ASSEMBLY; AND FOR PERFORMING WORK IN A SAFE AND SECURE MANNER.	19.	NO
6.	IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, SPECIFICATIONS		INC DE
	PLAN/DETAILS, REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT	20.	AR
	DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK, UNLESS PRIOR TO THE SUBMISSION	21.	GE BR
	OF THE PRICE, THE CONTRACTOR ASKS FOR A DECISION FROM THE	22.	GE
	ARCHITECT/ENGINEER AS TO WHICH SHALL GOVERN. ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE		BO BE
7			SH CO
7.	THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA AND DOSH (DEPARTMENT OF	23.	LO
8.	OCCUPATIONAL SAFETY AND HEALTH). THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND	24.	IN
0.	EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK.	CON	CL ICRE
9.	ARCHITECTURAL DRAWINGS SHALL GOVERN THE WORK FOR ALL DIMENSIONS. ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE AND FORM FOR SPECIFIED ITEMS	1.	со
	MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION TO THE ARCHITECT/ENGINEER FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED		CO MA
	WITHOUT ADEQUATE TECHNICAL DOCUMENTATION THAT SIGNIFICANTLY DEVIATE FROM	2.	ALI
	THE DESIGN INTENT OF MATERIALS SPECIFIED MAY BE RETURNED WITHOUT REVIEW. ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW WILL NOT BE REVIEWED	3.	MC TIN
10	UNLESS AUTHORIZED BY THE OWNER.	4.	BL
10.	ALL BUILDING SITES SHALL BE GRADED TO PROVIDE DRAINAGE UNDER ALL PORTIONS OF THE BUILDING AND AROUND THE BUILDING PERIMETER TO ALLOW DRAINAGE AWAY	5.	SP MA
11.	FROM THE STRUCTURE. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN		EX
	INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO	6.	CO TY
	QUANTITY, LENGTH, DIMENSIONS, ELEVATIONS, ETC.		HA CR
12.	SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED	7.	TE
	UNCHECKED.	8.	MA US
13.	CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY CLOUDED AND NOTED. ARCHITECT/ENGINEER REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE		300 AG
			ST
14.	DISCREPANCIES, OMISSIONS, OR INCONSISTENCIES WITH APPLICABLE CODE REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN		CC AL
15.	WRITING BEFORE SUBMITTING A BID OR PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND	9.	GR
10.	UTILITIES PRIOR TO EARTHWORK, FOUNDATIONS, SHORING, AND EXCAVATION. ANY UTILITY INFORMATION SHOWN ON THE DRAWINGS AND DETAILS IS APPROXIMATE AND	10.	US NO
	NOT NECESSARILY COMPLETE.	11.	MI) RE
16.	THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT		GR
	TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE PROCEEDING WITH THE WORK.	12.	RE SP
STF	RUCTURAL CERTIFICATION		DR TH
1.	I CERTIFY THAT THE PLANS AND SPECIFICATIONS COMPLY WITH THE STRUCTURAL	13.	AN
2.	PORTION OF THE FLORIDA BUILDING CODE SIXTH EDITION. I ALSO CERTIFY THAT STRUCTURAL ELEMENTS DEPICTED ON THESE PLANS PROVIDE	14. 15	US
	ADEQUATE RESISTANCE TO THE WIND LOADS SPECIFIED IN SECTION 1609 IN THE FBC AND CHAPTER 3 IN THE FBC-RESIDENTIAL.	15.	DO SU
FOL	JNDATION AND SLABS ON GRADE	16.	WA DU
1.	FOUNDATION IS DESIGNED BASED ON PRESUMPTIVE SAFE ALLOWABLE BEARING PRESSURE OF 1,500 PSF. CONTRACTOR SHALL VERIFY THAT THE MINIMUM BEARING	17.	ALI
	PRESSURE IS OBTAINED PRIOR TO FOOTING PLACEMENT.	18.	UN HE
2.	THE ARCHITECT /ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY INTERPRETATION THAT THE SUBSURFACE CONDITIONS DESCRIBED IN THE TEST BORING LOGS OCCUR	10.	WH
	CONSISTENTLY THROUGHOUT THE JOB SITE. TEST BORINGS ARE INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND		MC TR
	REPRESENT SOIL CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND AT THE	19.	PR (Dl
3.	PARTICULAR TIMES THEY WERE TAKEN. REINFORCED FOUNDATION REQUIREMENTS USED IN THE DESIGN:		сc
	a. MINIMUM DEPTH BELOW FINISHED GRADE1'-0"	20.	US DIS
	b. MAXIMUM ALLOWABLE BEARING CAPACITY1,500 PSF	04	AS
	c. MODULUS OF SUBGRADE REACTION 200 PCI	21. 22.	IN1 18
	d. PASSIVE LATERAL PRESSURE		BL
	e. ACTIVE LATERAL PRESSURE (UNRESTRAINED)55 PSF f. ACTIVE LATERAL PRESSURE (RESTRAINED)	23.	WH CE
	g. COEFFICIENT OF SLIDING FRICTION		VE EX
4.	ALL FOUNDATION CONCRETE SHALL BE CAST IN THE DRY. DEWATERING OPERATION	<u> </u>	SP
	SHALL BE DONE IN SUCH A WAY THAT GROUND WATER LEVELS OUTSIDE THE SITE WILL BE MAINTAINED TO AVOID SETTLEMENT AND DAMAGE TO NEARBY BUILDINGS AND	24.	AL UN
F	STRUCTURES.		WE PR
5.	SYNTHETIC FIBER REINFORCEMENT SHALL COMPLY WITH ASTM-C-1116, AND THE DOSAGE AMOUNT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION BUT		WI TH
6.	NOT LESS THAN 1.2 LBS/CY. WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185 (LATEST EDITION), AND BE		LA
э.	SUPPORTED ON SLAB CHAIRS SPACED AT 3' -0" ON CENTER MAXIMUM.		AN

THE CONCRETE STRENGTH COMPRESSIVE STRENGTHS THE SPECIFIED SLUMP IS T	AT 28 DAYS AND HE MAXIMUM PRIC	THE WATE	R/CEMENT F ADDITION O
CONCRETE SHALL BE STAN			,
ITEM OF	STRENGTH	AGG	SLUMP
CONSTRUCTION	(PSI)	(IN)	(IN)

- LABS ON GRADE 3,000 3/4 4-6 E CONTRACTOR SHALL PROVIDE CHAIRS AT 4' -0" CENTER TO CEN RE MESH WHILE CASTING SLAB. PULL FABRIC UP BETWEEN SUPPO EARANCE TO TOP OF SLAB. MINIMUM SIDE AND END LAP ON FABRIC RE SPACE.
- ADDITION, SLABS-ON-GRADE SHALL HAVE A COMPRESSIVE STREN 00 PSI AT THREE DAYS IF SUBJECT TO CONSTRUCTION TRAFFIC. MOVE AND REPLACE MINIMUM 1 FEET OF EXISTING SOIL BELOW FO MPACTED, MOISTURE-TREATED, NON-EXPANSIVE FILL MATERIAL.
- TEND 1 FOOT BEYOND FOUNDATION FOOTPRINT. R SITE PREPARATION, REMOVE DELETERIOUS MATERIAL SUCH AS GANIC SOILS AND ROOT ZONES, EXISTING FILL, OR LOOSE, SOFT
- HERWISE UNSUITABLE MATERIALS FROM BELOW THE PROPOSED BENEATH SLABS AND FOOTINGS SHALL BE EXCAVATED AS REQU \_ ORGANIC AND DELETERIOUS MATERIALS. PLACE CLEAN SAND F CH LIFTS. SUBGRADE AND EACH LIFT SHALL BE COMPACTED TO A
- RCENT OF ITS MODIFIED PROCTOR VALUE IN ACCORDANCE WITH BGRADE SHALL BE UNIFORM OVER THE ENTIRE FOUNDATION ARE
- I GRADE FOR FLOOR FINISHES PER ARCHITECTURAL DRAWINGS. UNDATIONS SHALL BEAR ON EITHER COMPETENT NATIVE SOIL OR RUCTURAL FILL AS PER THE GEOTECHNICAL REPORT. EXTERIOR I IALL BEAR NOT LESS THAN 24 INCHES BELOW FINISH GRADE, UNLE ECIFIED BY THE GEOTECHNICAL ENGINEER AND/OR THE BUILDING
- OVIDE 6 MIL 'VISQUEEN' VAPOR BARRIER UNDER ALL SLABS ON FIL HERWISE NOTED ON PLANS).
- LUMNS, BEAMS, WALLS OR ANY OTHER STRUCTURAL MEMBER PENE L SHALL BE ISOLATED BY PRE-MOLDED JOINT FILLER (1/2" THICK) CON 752. TYPE 1.
- PS OF FOOTINGS AND SLABS ON GRADE SHALL BE AS SHOWN ON F RTICAL CHANGES AS INDICATED WITH STEPS IN THE FOOTINGS; L OWN AS APPROXIMATE AND SHALL BE COORDINATED WITH THE C ENSURE THAT THE EXTERIOR PERIMETER FOOTINGS BEAR NO LESS LOW FINISH GRADE, OR AS OTHERWISE INDICATED BY THE GEOTER R BUILDING OFFICIAL.
- NCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS: CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:
- EXPOSED TO EARTH OR WEATHER:

### NO. 5 AND SMALLER BARS NO. 6 AND LARGER BARS

- N-EXPANSIVE BACKFILL SHALL BE PLACED IN CONTROLLED LIFTS N CHES AND SHALL BE COMPACTED TO AT LEAST 95% OF LABORATO NSITY (ASTM D 1557).
- EA DRAINAGE SHALL BE DIRECTED AWAY FROM THE FOUNDATION. ENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SHOR
- ACING OF EXCAVATIONS. ENERAL CONTRACTOR SHALL INSTALL ALL PIPE SLEEVES, BOXED C
- ITS, ETC., AS REQUIRED FOR THE VARIOUS TRADES. WALL POCK AMS AND SLABS SHALL BE PROVIDED AS REQUIRED FOR THE SUPE IOP DRAWINGS SHOWING THE POSITION OF OPENINGS SHALL BE S INTRACTING OFFICER PRIOR TO PLACEMENT OF CONCRETE.
- CATE SAWCUTS PER PLAN OR IF NOT SHOWN ON PLANS COMPLY NO CASE SHALL TRUCKS, BULLDOZERS OR OTHER HEAVY EQUIPM OSER THAN 8'-0" FROM ANY FOUNDATION WALL UNLESS APPROVE TE MASONRY
- INCRETE MASONRY WORK SHALL BE IN ACCORDANCE WITH THE FL DE REQUIREMENTS FOR MASONRY, AND REQUIREMENTS AND SPE SONRY STRUCTURES ACI 530 / ASCE 6 (LATEST EDITION).
- MASONRY WORK SHALL CONFORM TO ACI 530/ASCE 6 STANDARE DISTURE CONTENT OF BLOCKS SHALL NOT EXCEED 35% OF TOTAL 1E OF PLACEMENT.
- OCK UNITS SHALL CONFORM TO FLORIDA CONCRETE AND PRODUC ECIFICATION "CM-1"
- XIMUM LINEAR SHRINKAGE FOR BLOCK UNITS USED FOR EXTERIO CEED .04%.
- NCRETE MASONRY UNITS SHALL BE IN CONFORMANCE WITH ASTM PE II. MASONRY UNITS SHALL BE TESTED IN ACCORDANCE WITH AS VE A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI MINIMUM BAS COSS SECTIONAL AREA.
- STING TO BE DONE FOLLOWING ASTM C 140 "SAMPLING AND TESTI SONRY UNITS".
- EALL GROUT CONFORMING TO ASTM C 476 WITH A MIN. COMPRES 00 PSI IN 28 DAYS, TESTED IN ACCORDANCE WITH ASTM C 39, COAF GREGATE SIZE OF 3/8" AND SLUMP OF 8" TO 11". TEST SAMPLES F RENGTH EVERY 30 YARDS OR EA DAY OF GROUTING. 2,800 PSI PUI NCRETE MADE WITH MAX. 3/8" AGGREGATE AND MAX. 9" SLUMP IS TERNATE. NO ADMIXTURES WILL BE PERMITTED IN MORTAR.
- ROUT FOR POURING SHALL BE A FLUID CONSISTENCY.
- E TYPE "M" MORTAR IN CONFORMANCE WITH ASTM C 270. AND AST I USE MASONRY CEMENT). MORTAR SHALL BE FRESHLY PREPARE
- MOVE MORTAR PROTRUDING INTO CELL CAVITIES THAT ARE TO BE ROUTED. ALLOW A MIN. OF 24 HOURS FOR MORTAR TO CURE BEFOR INFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60, FY =
- LICES (LAPS) AND CORNER BARS SHALL BE MINIMUM 30 INCHES OF AWINGS. EPOXY COATED BARS SHALL HAVE THEIR LAP LENGTHS OSE SPECIFIED ABOVE.
- CHOR BOLTS SHALL BE ASTM A 307, FOR HEADED MACHINE BOLTS.
- E PRESSURE-TREATED WOOD FOR ALL WOOD IN CONTACT WITH MASONRY.
- NOT STACK MASONRY UNITS MORE THAN 2' -8" HIGH AND IN PALLETS OF 4'x4' MAXIMUM RFACE AREA AND NO LESS THAN 8 FT. AWAY FROM EACH OTHER.
- ALLS TALLER THAN 8 FEET SHALL BE BRACED TO ENSURE STABILITY OF THE MASONRY RING CONSTRUCTION.
- L UNITS TO BE LAID UP IN RUNNING BOND WITH CONCAVE COMPRESSED JOINTS ILESS NOTED OTHERWISE.
- AD AND BED JOINTS SHALL BE 3/8" THICK EXCEPT STARTING JOINT AT FOUNDATION HICH SHALL BE 1/4" MINIMUM AND 3/4" MAXIMUM. ALL UNITS SHALL BE LAID WITH FULL ORTAR COVERAGE OF THE FACE SHELLS IN BOTH HORIZONTAL AND VERTICAL OR
- OVIDE 9 GAGE LADDER TYPE CONT. GALVANIZED HORIZONTAL JOINT REINFORCING JR O WALL OR ENGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK URSES.(16" VERTICALLY) WITH MIN. 6" LAP SPLICE.
- PREFABRICATED CORNERS AND TEES AT WALL INTERSECTIONS. OVERLAP SCONTINUOUS ENDS A MIN. OF 12". HORIZONTAL REINFORCING SHALL CONFORM TO TM A-82.
- TERSECTING WALLS SHALL BE INTERLOCKED WITH RUNNING BOND. GAUGE DOVETAIL ANCHORS (5~8" LONG) AND INSERTS SHALL BE USED EVERY 2ND OCK COURSE AT BLOCK-COLUMN INTERSECTIONS.
- HERE VERTICAL REINFORCEMENT IS REQUIRED PROVIDE ONE PIECE, NO SPLICES, NTERED IN THE WALL UNLESS SPECIFICALLY DETAILED. OTHERWISE.PROVIDE RTICAL SUPPORT SPACERS AT 200 REINFORCEMENT DIAMETERS MAXIMUM BUT NOT CEEDING 10 FEET. THE CONTRACTOR HAS THE OPTION TO USE ADDITIONAL LAP LICES FOR THE PLACEMENT OF THE VERTICAL REINFORCING.
- L REINFORCED HOLLOW UNIT MASONRY SHALL BE BUILT TO PRESERVE THE IOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. WALLS AND CROSS EBS FORMING SUCH CELLS TO BE FILLED SHALL BE FULL-BEDDED IN MORTAR TO EVENT LEAKAGE OF GROUT. ALL HEAD (OR END) JOINTS SHALL BE SOLIDLY FILLED TH MORTAR FOR A DISTANCE IN FROM THE FACE OF THE WALL OR UNIT NOT LESS THAN THICKNESS OF THE LONGITUDINAL FACE SHELLS. BOND SHALL BE PROVIDED BY PPING UNITS IN SUCCESSIVE VERTICAL COURSES OR BY EQUIVALENT MECHANICAL ICHORAGE.

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E THE MINIMUM RATIO IS THE MAXIMUM. F ADMIXTURES.	25.	VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL CELL MEASURING NOT LESS THAN 3" AND HAVING A CLEAR AREA OF 10 SQUARE INCHES.	10.
WATER/CEMENT (LB/LB)	26.	REINFORCING BARS REQUIRE A MINIMUM CLEAR DISTANCE OF 1/4" FOR FINE GROUT OR 1/2" FOR COURSE GROUT BETWEEN ANY MASONRY FACE. A MINIMUM 2" COVER FROM THE EXTERIOR FACE OF THE BLOCK TO THE REINFORCING INCLUDING GROUT SHALL	11.
0.50 NTER TO SUPPORT	27.	ALSO BE OBSERVED. FOR REINFORCING CONGESTION KNOCK OUT BLOCKS TO BE USED TO FACILITATE	
PORTS TO PROVIDE 2" RIC SHALL BE ONE	28.	CONSTRUCTION. ALL REINFORCING TERMINATING AT BOND BEAMS REQUIRE A STANDARD HOOK WITH AN EMBEDMENT OF 6" MIN.	
NGTH OF AT LEAST	29.	USE MINIMUM 1 #5 IN FILLED CELL AT WALL INTERSECTIONS, EACH SIDE OF OPENINGS IN THE WALL AND AT THE ENDS OF WALLS UNLESS NOTED IN PLANS TO BE DIFFERENT.	12.
FOUNDATION WITH FILL AREA SHALL	30. 31.	ALL CELLS CONTAINING REINFORCING OR EMBEDDED ITEMS SHALL BE SOLID GROUTED. CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF ALL CELLS TO BE FILLED	13.
S VEGETATION, FROZEN, OR		IN EACH POUR OF GROUT WHERE SUCH GROUT POUR IS IN EXCESS OF 4 FEET IN HEIGHT. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF SUCH CELL WALLS. THE CLEANOUTS SHALL BE SEALED BEFORE	14.
D FOUNDATION AREAS. QUIRED TO REMOVE FILL IN MAXIMUM OF 12	32.	GROUTING, AFTER INSPECTION. GROUT SHALL BE A CONTINUOUS OPERATION POURED IN LIFTS OF 8 FEET MAXIMUM HEIGHT. ALL GROUT SHALL BE CONSOLIDATED AT TIME OF POURING BY PUDDLING OR VIBRATION AND THEN RECONSOLIDATED AGAIN BY PUDDLING LATER, BEFORE PLASTICITY	15. 16.
A MINIMUM OF 95 I ASTM D 1557. EA. DEPRESS SLABS	33.	IS LOST. WHEN TOTAL GROUT POUR EXCEEDS 8 FEET IN HEIGHT, THE GROUT SHALL BE PLACED IN	17.
R COMPACTED		FOUR FOOT LIFTS WITH NOT LESS THAN 30 MINUTES NOR MORE THAN ONE HOUR BETWEEN LIFTS. VIBRATE EACH LIFT AND RECONSOLIDATE PREVIOUS LIFT AFTER PLACING NEXT.	18.
ESS OTHERWISE G OFFICIAL.	34.	WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT NOT LESS THAN 1/2 INCH BELOW THE TOP OF THE UPPERMOST UNIT GROUTED.	19.
ILL (UNLESS	35.	UNITS WHICH ARE DISTURBED AFTER INITIAL BOND IS ACHIEVED MUST BE REMOVED AND RELAID WITH FRESH MORTAR TO ENSURE ADEQUATE BOND STRENGTH AND MINIMIZE THE	
OMPLYING WITH ASTM	36.	LIKELIHOOD OF WATER PENETRATION INTO AN UNBONDED JOINT WHERE ANCHOR BOLTS ARE SET IN MASONRY WALL, FILL BLOCK CELLS WITH GROUT FOR BOLT COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW ANCHOR ELEVATION.	20. DOO
N PLANS WITH LOCATIONS OF STEPS CIVIL GRADING PLANS	37.	CHASES AND RECESSES SHALL BE CONSTRUCTED AS MASONRY UNITS ARE LAID. MASONRY DIRECTLY ABOVE CHASES OR RECESSES WIDER THAN 12 INCHES SHALL BE	1.
ESS THAN 24 INCHES ECHNICAL ENGINEER	38.	SUPPORTED ON PRECAST GROUTED LINTELS. PROVIDE PRECAST LINTELS OVER ALL OPENINGS IN MASONRY CONSTRUCTION UNLESS NOTED OTHERWISE IN PLAN. PROVIDE #5 BAR IN ALL LINTELS GROUTED SOLID AND SHALL	2. 3.
/S: 3"		HAVE 4" MINIMUM BEARING AT EACH END. FOR RECESSED LINTELS THE MINIMUM BEARING SHALL BE 8".	J. 4.
1 1/2"	39.	PROVIDE LINTELS OR HEADERS OVER ALL MASONRY OPENINGS NOT FLUSH WITH STRUCTURAL FRAME. LINTELS OR HEADERS TO BEAR MIN. 8 INCHES EACH SIDE OF OPENING.	5.
2"	40.	FOR SPECIAL INSPECTIONS THE ARCHITECT/ENGINEER SHALL BE GIVEN A MINIMUM 72 HOURS NOTICE PRIOR TO EACH REINFORCED BLOCK GROUTING OR CONCRETING	6.
S NOT TO EXCEED 12 ORY MAXIMUM	41.	OPERATION. LINTELS MAY BE USED IN MASONRY OPENINGS UP TO 6' -6" CLEAR. THESE MAY BE PRE CAST OR CAST IN PLACE. THE LATTER SHALL BE 8" X 12" MINIMUM WITH 2 # 5 TOP AND	
N. RING, SHEETING AND	42.	BOTTOM, #3 TIES AT 12" AND SHALL BEAR 8" AT EACH SIDE OF OPENINGS. ALL BEAMS NOT SCHEDULED ARE TIE BEAMS AND SHALL BE 8" X 12" MIN. WITH 2#5 LONGITUDINAL BARS TOP AND BOTTOM AND #3 TIES AT 24". AT CORNERS USE 2#5 TOP	
OPENINGS, ANCHOR KETS TO RECEIVE	43.	AND BOTTOM CORNERS BARS WITH 30" LEGS AND 4 #3 TIES AT 12" EACH SIDE. ALL COLUMNS NOT SCHEDULED ARE TIE COLUMNS AND SHALL BE 8"X12" MIN. WITH 4 #5	
PER-STRUCTURE. SUBMITTED TO THE	ТІМЕ	VERTICAL BARS AND # 3 TIES AT 12" O.C. BER AND PRE-ENGINEERED WOOD TRUSSES	7.
Y WITH ACI 224.3.	1.	ALL LUMBER SHALL MEET THE STANDARD OF QUALITY AS STATED IN FBC 2303.	
MENT BE PERMITTED 'ED BY ENGINEER.	2.	ALL PRESERVATIVE TREATED WOOD REQUIRED TO BE TREATED PER CODE OR DRAWINGS SHALL BE IDENTIFIED BY THE QUALITY MARK OF AN INSPECTION AGENCY WHICH HAS BEEN APPROVED BY AN ACCREDITATION BODY WHICH COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARD COMMITTEE TREATED WOOD	8.
FLORIDA BUILDING PECIFICATIONS FOR	3.	PROGRAM, OR EQUIVALENT. ALL LUMBER SIZES NOTED AND SPECIFIED ON PLANS ARE NOMINAL SIZES UNLESS	
RDS, LATEST EDITION. L ABSORPTION AT THE	4.	SPECIFICALLY INDICATED AS NET SIZE. WOOD IN CONTACT WITH THE GROUND OR BELOW GROUND LEVEL SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD.	
	5.	WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD.	
IOR WALL SHALL NOT	6.	THE PLACEMENT OF HOLES IN FLOOR JOIST WEBS SHALL BE PER MANUFACTURERS SPECIFICATIONS OR APPROVED BY THE S.E.R. IN WRITING. THE NOTCHING OR CUTTING OF FLOOR JOIST FLANGES IS NOT ALLOWED.	
TM C 90, GRADE N, ASTM C 140 AND SHALL BASED ON THE NET	7.	SUBMIT TRUSS SHOP DRAWINGS SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE TRUSS LAYOUT, DESIGN LOADS, TRUSS REACTIONS (DL & LL AND DL & WL) AND	
TING OF CONCRETE		ALL OTHER INFORMATION REQUIRED FOR PROPER TRUSS INSTALLATION. DESIGN OF TRUSSES SHALL INCLUDE THE UPLIFT EFFECTS OF THE APPROPRIATE DESIGN WIND LOAD UTILIZING SHAPE FACTORS FROM THE FLORIDA BUILDING CODE.	
ESSIVE STRENGTH OF ARSE TYPE WITH MAX. FOR COMPRESSIVE JMP MIX READY MIX IS ACCEPTED	8.	TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED, OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE S.E.R. ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER (E.G. HVAC EQUIPMENT, WATER HEATER) SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING.	
	9.	STUD PARTITIONS CONTAINING PLUMBING, HEATING, CONDUIT OR OTHER PIPES SHALL BE SO FRAMED AND SPACED AS TO GIVE PROPER CLEARANCE FOR THE PIPING. WHERE PIPES ARE PLACED IN OR PERTLY IN A PARTITION, NECESSITATION THE CUTTING OF THE	
STM C 780, TYPES (DO RED AND UNIFORMLY		SOLE PLACED IN OR PERTIT IN A PARTITION, NECESSITATION THE COTTING OF THE SOLE PLATE, A METAL TIE NOT LESS THAN 0.058 INCH (16 GAGE) AND 1 ½ INCHES WIDE SHALL BE FASTENED TO EACH PLATE ACROSS AND TO EACH SIDE OF THE OPENING WITH NOT LESS THAN SIX 16D NAILS.	
BE REINFORCED AND ORE PLACING GROUT. Y = 60,000 PSI. ALL OR AS SHOWN ON			
S 50% GREATER THAN			

10. IN LOAD BEARING WALLS AND PARTITIONS, ANY WOOD STUD MA TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. CUTTIN STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WI PERMITTED IN NON-BEARING PARTITIONS SUPPORTING NO LOAD WEIGHT OF THE PARTITION.

- BORED HOLES NOT GREATER THAN 60 PERCENT OF THE WIDTH OF THE STUD ARE 11. PERMITTED IN NONBEARING PARTITIONS OR IN ANY WALL WHERE EACH BORED STUD IS DOUBLED, PROVIDING NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLE STUDS ARE BORED. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
- 12. DESIGN CALCULATIONS FOR TRUSSES SHALL CLEARLY SHOW THE DESIGN LOADS FOR BOTH GRAVITY AND UPLIFT CONDITIONS.
- ROOF PLYWOOD SHALL BE 5/8" APA STRUCTURAL 1, 40/20 SPAN RATED STRUCTURAL 13. SHEATHING, ATTACHED TO ROOF FRAMING WITH GALVANIZED NAILS PER DRAWINGS. PROVIDE 1/8" SPACING AT PANEL EDGES AND END JOINTS UNLESS OTHERWISE NOTED.
- 14. PROVIDE TRUSS ANCHORS AT ALL RAFTER/TRUSS TO BEARING CONNECTIONS. ALL TRUSS TO TRUSS CONNECTORS AND TIE DOWNS ARE RESPONSIBILITY OF THE TRUSS MANUFACTURER.
- 15. ALL WOOD TRUSS/RAFTER/BEAM TO MASONRY OR CONCRETE SHALL HAVE A MOISTURE BARRIER
- 16. CHECK SCHEDULE AND/OR SECTIONS FOR VARIATIONS IN STRAPS. PROVIDE MULTIPLE OR SPECIFIC STRAPS AT TRUSS GIRDERS AND GABLE ENDS AS SHOWN ON PLANS. 17. ALL NAILS AND METAL HARDWARE EXPOSED TO THE WEATHER SHALL BE GALVANIZED OR
- COATED WITH AN APPROVED MATERIAL. ALL NAILS SHALL BE COMMON WIRE NAILS UNLESS NOTED OTHERWISE. SPACE NAILS IN STRAPS SO AS NOT TO SPLIT WOOD. 18. ALL STRUCTURAL ELEMENTS MUST BE S.P.F. GRADE 1, S. PINE GRADE 2 OR BETTER.
- 19. ALL WALL SHEATHING FOR EXTERIOR WALLS SHALL BE SPAN RATED STRUCTURAL, INSTALLED WITH FACE GRAIN PARALLEL TO SUPPORTS. CONNECT TO SUPPORTS WITH GALVANIZED NAILS PER THE DRAWINGS. PROVIDE 2X4 BLOCKING AT ALL HORIZONTAL JOINTS. PROVIDE 1/8" SPACE AT PANEL EDGES AND END JOINTS UNLESS OTHERWISE NOTED
- 20. BUILT UP LUMBER (MULTIPLE MEMBERS) MUST BE FASTENED TOGETHER TO ACT AS ONE TO RESIST THE APPLIED LOAD. PROVIDE MINIMUM 2 ROWS OF 16D @ 12" O.C.
- DOOR NOTES 1. THE DESIGN PRESSURES FOR THE DOORS SHALL BE NOT LESS THAN THE VALUES SHOWN IN THE SCHEDULE.
- 2. THE DOORS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S NOTICE OF APPROVAL (MIAMI NOA OR FBC APPROVAL). D SOLID AND SHALL 3.
  - THE DOORS MUST WITHSTAND THE IMPACT OF WIND BORNE MISSILES, OR SHALL BE PROTECTED WITH AN APPROVED IMPACT RESISTANT COVERING.
  - EACH UNIT SHALL BEAR A LABEL WITH THE MANUFACTURER'S NAME AND DESIGN PRESSURES PRIOR TO INSTALLATION, ALL FRAMES MUST BE CHECKED FOR RACK, TWIST AND OUT OF
  - SQUARE. FOLLOW FMA (FENESTRATION MANUFACTURERS ASSOCIATION) GUIDELINES FOR FLASHING ALL OPENINGS.
  - a. CAULK ALL INSIDE CORNERS OF OPENINGS WITH AN APPROVED SEALANT.
  - b. APPLY AN APPROVED FLASHING TO ALL FOUR SIDES OF OPENINGS. c. APPLY A HEAVY, UNINTERRUPTED BEAD OF APPROVED SEALANT TO THE BUCKS PRIOR TO ATTACHING TO THE OPENING PER DOOR DETAILS.
  - d. SEAL BUCKS WITH AN APPROVED FLASHING MATERIAL.
  - e. INSTALL DOOR AND APPLY BEAD OF APPROVED SEALANT AROUND PERIMETER APPROVED CORROSION RESISTANT FLASHING SHALL BE APPLIED IN SINGLE FASHION IN A MANNER TO PREVENT ENTRY OR PENETRATION OF WATER TO THE BUILDINGS STRUCTURAL FRAMING COMPONENTS.
  - SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA 711. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH.

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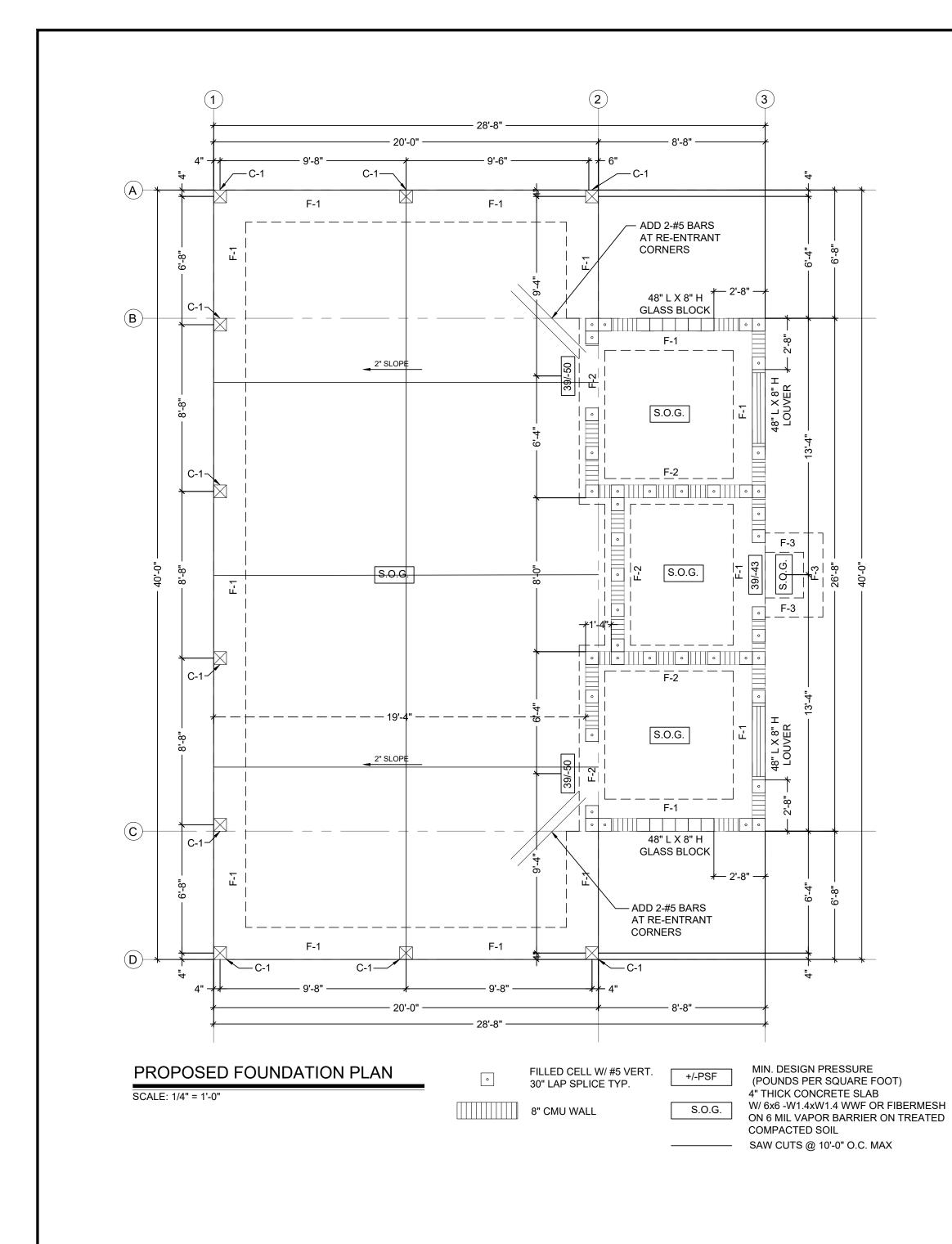
FBC

ABBREVIATIONS - ANCHOR BOLT G.T. - ABOVE FINISHED FLOOR HORIZ - AUTHORITY HAVING JURISDICTION ALTERNATE APPROX - APPROXIMATELY MAS - ARCHITECT URAL ARCHL MAX BOTT - BOTTOM MFF B.C., BC - BOTTOM CHORD MIN MIS BRG BEARING COASTAL CONST. CONTROL LINE CCCL MPH CFS - COLD FORMED STEEL CMU - CONCRETE MASONRY UNIT COL - COLUMN CONC - CONCRETE PSF CONT - CONTINUOUS - DRILLED AND EPOXY REV DOUBLE SPECS DIAMETER SCHED - DIMENSION SYP. - DOWN - DRILLED AND EPOXIED T.C., TC D & E - FACH T&B - ELEVATION/ELEVATOR TYP ELEV ENGR ENGINEER UNC - EACH WAY VERT EXIST, (E) - FXISTING VIF EXP EXPANSION EXTERIOR W/O - FLORIDA BUILDING CODE WRB FINISH FLOOR WW - FOUNDATION FND WWM - FEET/FOOT #5 - FOOTING FTG

- GIRDER TRUSS	
- HORIZONTAL	
- INCH/INCHES	
- INTERIOR	
- MASONRY	
- MAXIMUM	
- MANUFACTURER	
- MINIMUM	
- MISCELLANEOUS	
- MILES PER HOUR	
- NEW	
- NOT TO SCALE	
- ON CENTER	
- POUNDS PER SQUARE FOOT	
- PRESSURE TREATED	
- REVISION/REVISED	
- SPECIFICATIONS	
- SCHEDULE	
- SOUTHERN YELLOW PINE	
- STAINLESS STEEL	
- TOP CHORD	
- TOP & BOTTOM	
- TYPICAL	
- UNLESS NOTED OTHERWISE	
- VERTICAL	
- VERIFY IN FIELD	
- WITH - WITHOUT	
- WITHOUT -WEATHER RESISTANT BARRIER	
-WEATHER RESISTANT BARRIER - WELDED WIRE FABRIC	
- WELDED WIRE PABRIC - WELDED WIRE MESH	
- STEEL REINFORCING BAR (REBAR) #5 (5/	8")
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		DESIGNED R	DRAWN	DATE			DATE ISSUED	SCALE
	T1835 - 20TH STREET	VERO REACH EL 32960	PH (772) 569-0035	EX (772) 778-3617		i	MELBOURNE, FL - PH (321) 253-1510	FT. PIERCE, FL - PH (772) 468-9055
							MOIA BOWLES VILLAMIZAR & ASSOCIATES	CONSULTING ENGINEERING CA #3728
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**BID SET** 



	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						

	C	OLUMN SCHEDULE	
MARK	ТҮРЕ	POST BASE	NOTES
C-1	8"x 8" P.T. SYP. COLUMN	мрв662	FASTENED W/ (24) SDS 1/4" X 2-1/2"

		<b>BEAM/LINTEL SCHEDULE</b>	
MARK	ТҮРЕ	<b>REINFORCEMENT / CONNECTION</b>	NOTES
ВМ-1	8F16	(1) #5 TOP & BOTTOM CONT.	ALL UNMARKED OPENINGS
вм-2	(2) 2x12 P.T. SYP.	PER DETAIL	

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

NOTES:

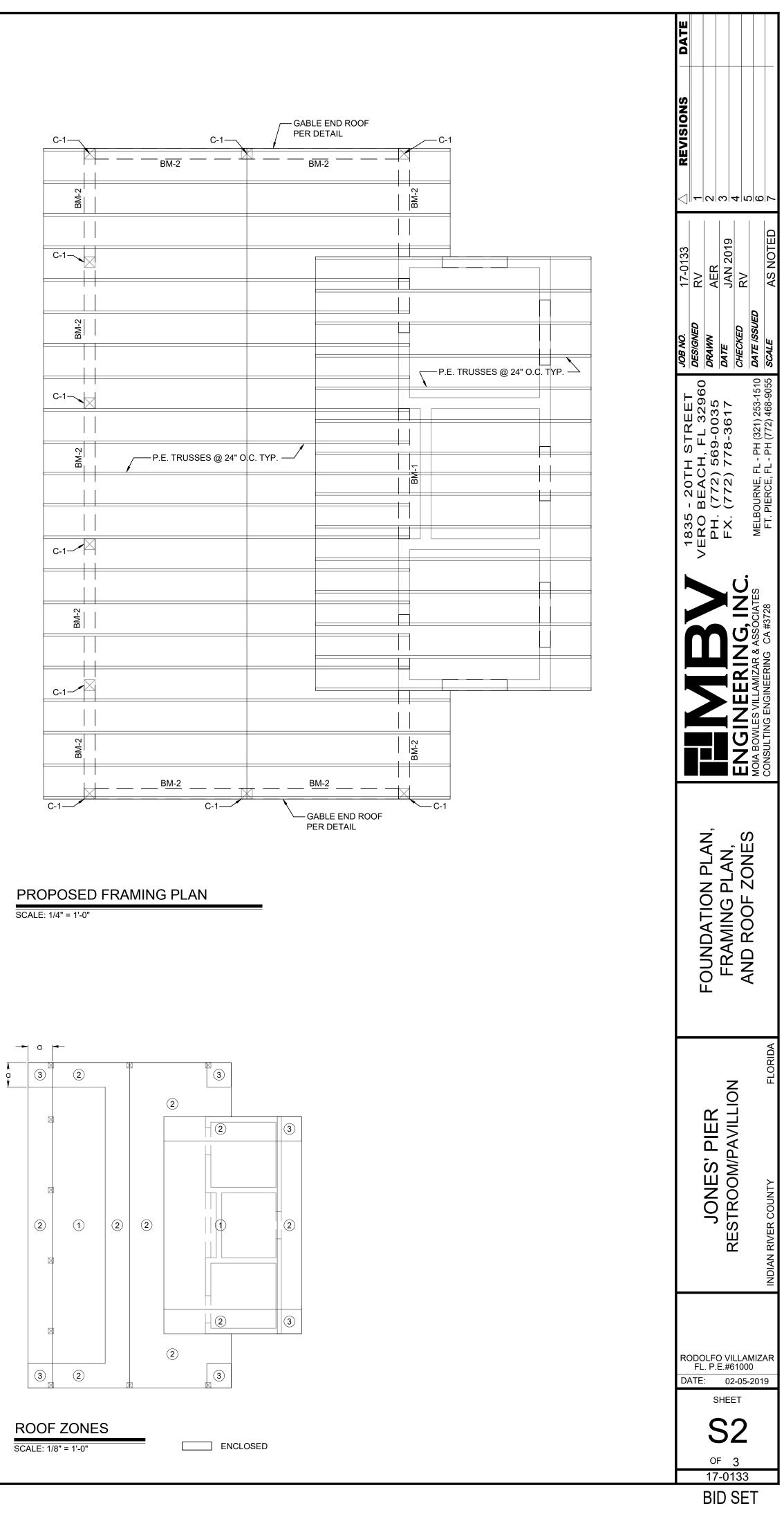
PROVIDE TRUSS CONNECTOR AT ENDS OF ALL TRUSSES.
 TRUSSES WITH MULTIPLE STRAPS, CONNECTORS SHALL BE STAGGERED EACH SIDE OF TRUSS TO AVOID SPLITTING MEMBER.
 TRUSS CONNECTORS AND CLIPS NOTED ON THIS LAYOUT ARE MODEL No.'S OF "SIMPSON STRONG-TIE", CONTRACTOR MAY SUBSTITUTE EQUAL

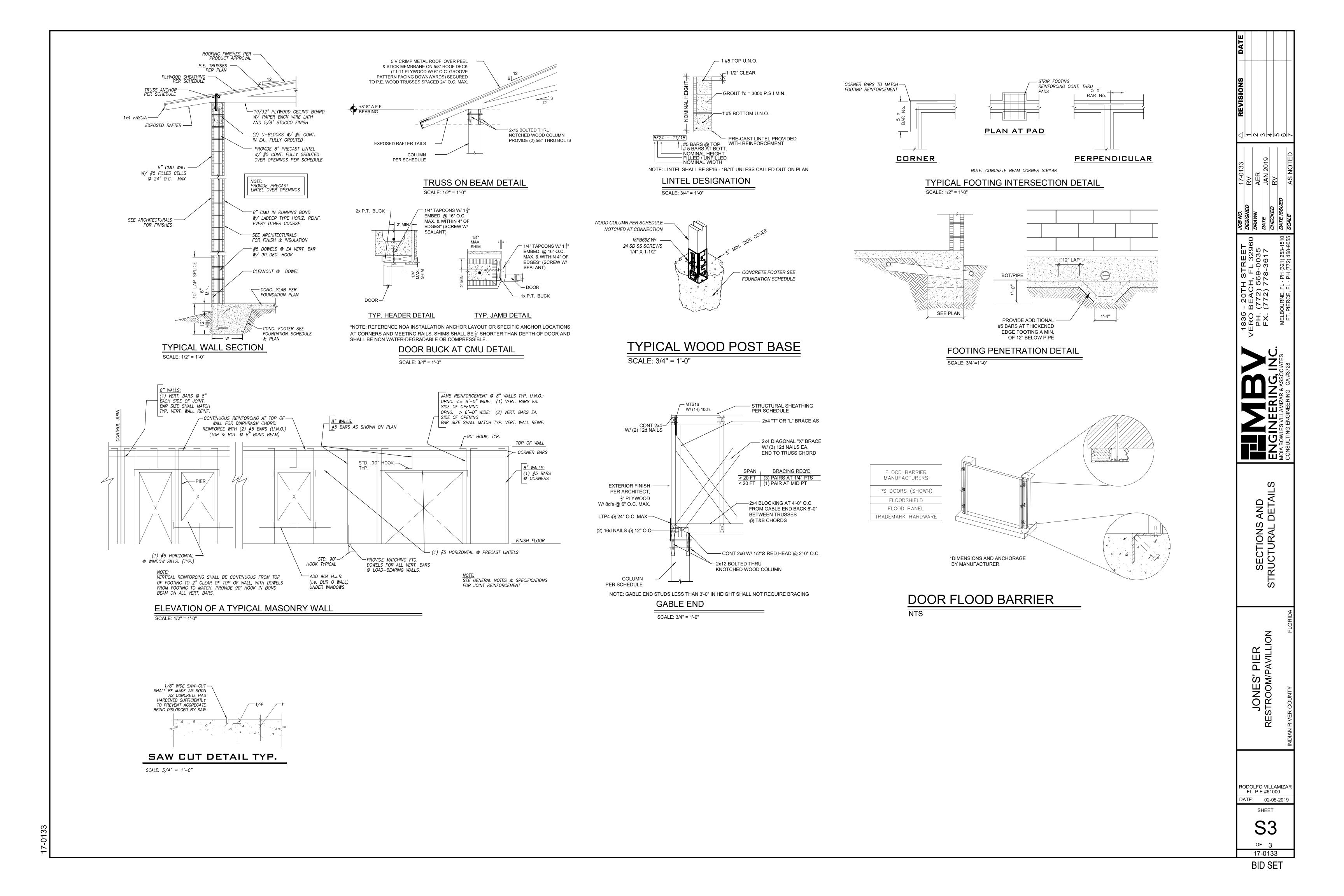
TROSS CONNECTORS AND CLIPS NOTED ON THIS LATOUT ARE MODEL NO.S OF SIMPSON STRONG-THE, CONTRACTOR STRAPS FROM ANOTHER MANUFACTURER.
 TRUSS TO TRUSS CONNECTIONS ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.
 PROVIDE TRUSS CONNECTORS IN ACCORDANCE WITH TRUSS LAYOUT FROM TRUSS MANUFACTURER.
 A.T.R. = 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.

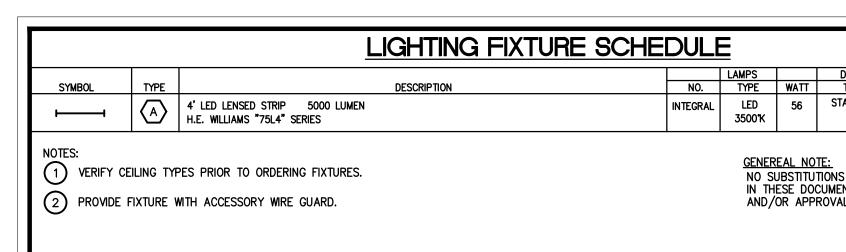
## ROOF SHEATHING FASTENING SCHEDULE WITH 19/32" PLYWOOD SPACING REQUIRED FOR 8D GALV. RINGSHANK NAILS

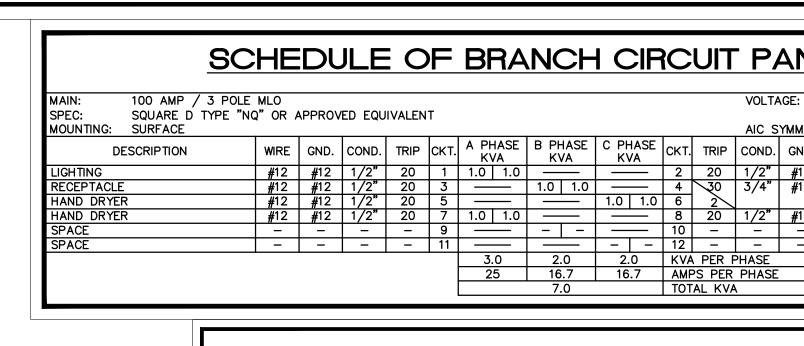
-					
BUILDING	ZONE 1	ZONE 2	ZONE 3		
ENCLOSED	6" O.C. @ EDGES 6" O.C. @ FIELD	3" O.C. @ EDGES 6" O.C. @ FIELD	3" O.C. @ EDGES 6" O.C. @ FIELD		
DESIGN PRESSURE ALLOWABLE	-30 PSF	-68 PSF	-94 PSF		
DESIGN PRESSURE ULTIMATE	-49 PSF	-113 PSF	-157 PSF		
* a = 3.0 FEET EDGE DISTANCE					

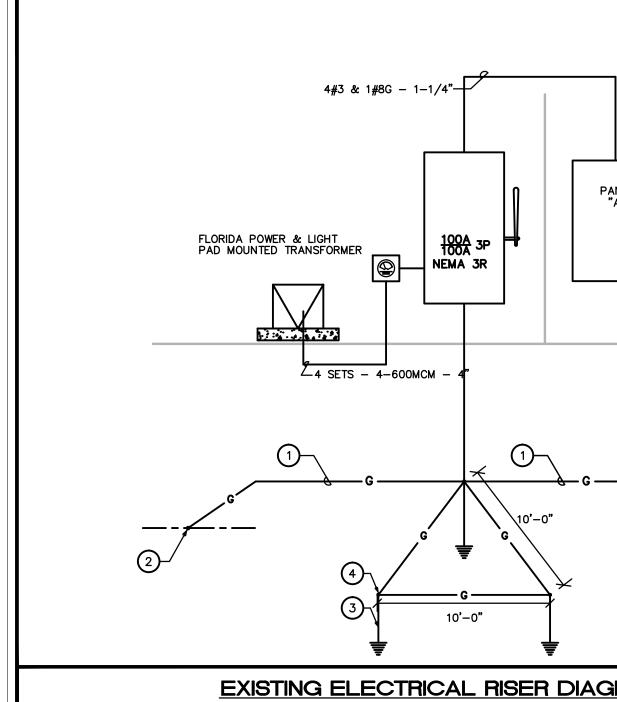
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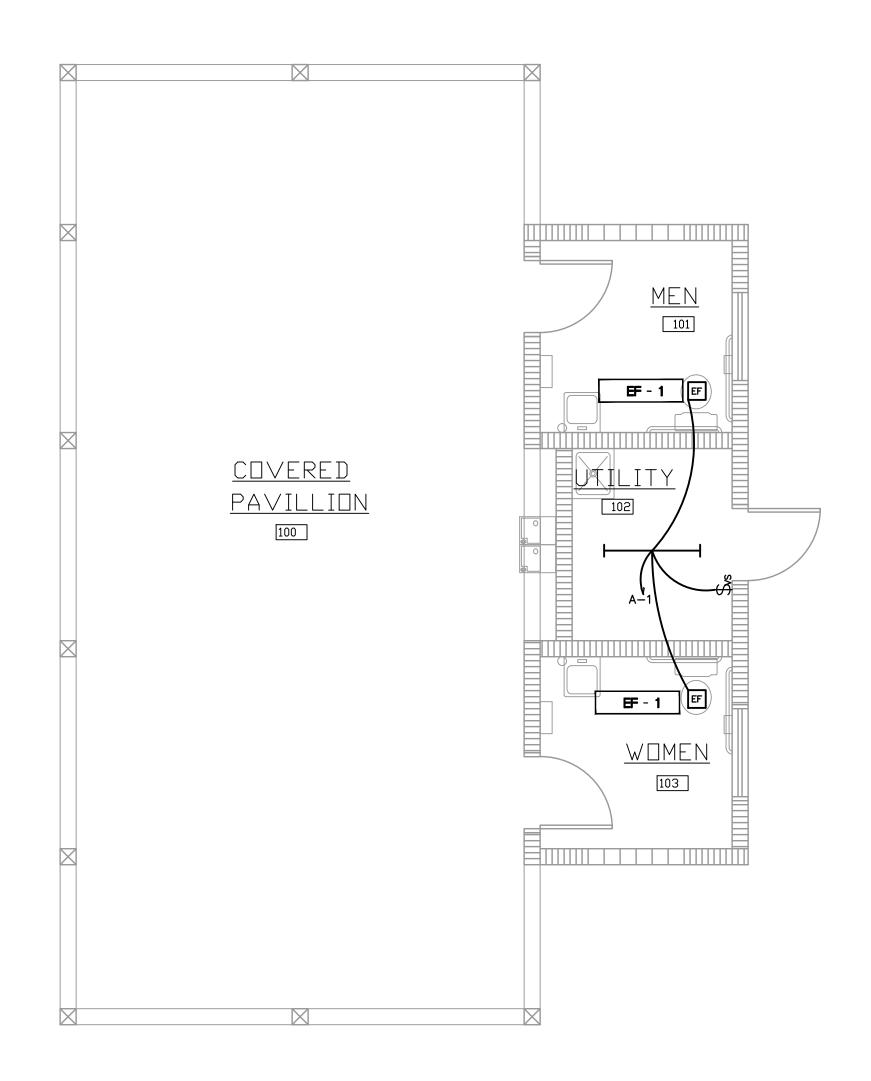


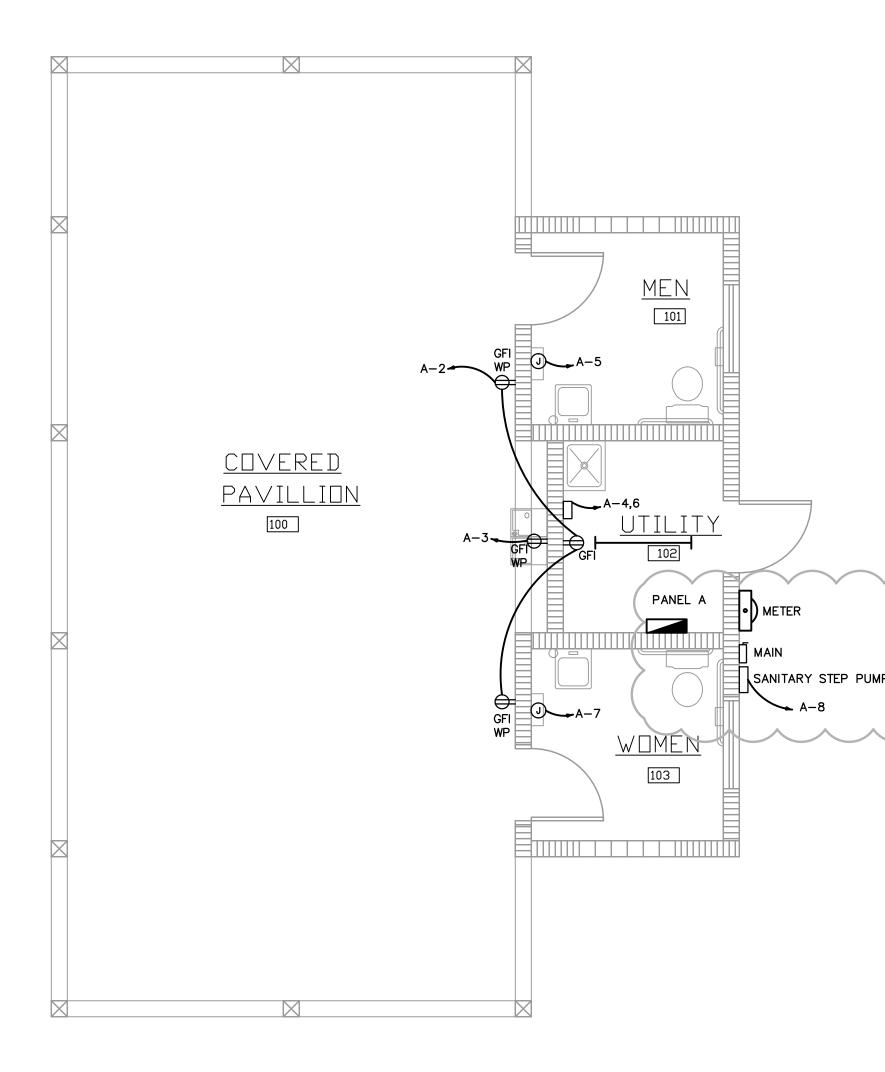




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	6	Pf Fil

	ELECTRICAL SPECIFICATIONS	ELECTRICAL SHEET INDEX	
MOUNTING REMARKS	<u>ELECTRICAL SPECIFICATIONS</u>		
CEILING SUSPENDED 12	PART 1 - GENERAL A. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED.	E0.1     ELECTRICAL NOTES, LEGEND, RISER, SCHEDULE & INDEX       E2.1     ELECTRICAL PLAN	New Restroom/Pavillion
	CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND		Jones' Pier
RE SCHEDULE CONTAINED RED WITHOUT PRIOR REVIEW AND ELECTRICAL ENGINEER.	SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL ARCHITECT/ENGINEER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN. B. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL		for
	CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC	ELECTRICAL LEGEND	Indian River County Parl
	CODE (AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION) AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES AND STANDARDS LISTED BELOW ARE UTILIZED IN THIS PROJECT.	TELEPHONE OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.	Division
	<ol> <li>NATIONAL ELECTRICAL CODE (NFPA-70)</li> <li>CODE FOR SAFETY TO LIFE (NFPA_101)</li> <li>STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING</li> </ol>	▼ DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.	Indian River County, Flor
4 WRE	SYSTEMS (NFPA-72) 4. UNDERWRITERS' LABORATORIES (UL) 5. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)	TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNTED ABOVE COUNTER, SEE ARCHITECTURAL DRAWING FOR SPECIFIC REQUIREMENTS.	Key Plan:
	<ol> <li>AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)</li> <li>FEDERAL SPECIFICATION (FED. SPEC.)</li> <li>INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)</li> </ol>	TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.	
DESCRIPTION ACLE	9. FLORIDA BUILDING CODE. 2017 EDITION 10. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) 11. CITY OF VERO BEACH BUILDING CODE. (AMENDMENTS TO FLORIDA BUILDING CODE 2017)	TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT RUN TO THE NEAREST STUD WALL AND STUBBED OUT FROM WALL 6" ABOVE CEILING. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.	
RY STEP PUMP	12. ADDITIONALLY, DESIGNS, WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) D. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS	TELEVISION OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.	
	FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE. E. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM	Φ 20 AMP SINGLE RECEPTACLE (NEMA 5–20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.	
	AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. F. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.	<ul> <li>20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.</li> <li>20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE</li> </ul>	
	G. 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 THERE BY.	$\mathbb{H}$ of outlet unless noted otherwise. $\mathbb{H}^{GFI}$ 20 AMP DUPLEX RECEPTACLE (NEMA 5–20R) with GROUND FAULT CIRCUIT INTERRUPTER,	lssues:
	<ul> <li>H. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.</li> <li>I. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR</li> </ul>	<ul> <li>₩ MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET. UNLESS NOTED OTHERWISE.</li> <li>20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED ABOVE COUNTER SEE ARCHITECTUAL DRAWINGS FOR SPECIFIC REQUIREMENTS.</li> </ul>	No.: Date: Description:
	TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. J. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL MEAN THAT THE CONTRACTOR IS TO FURNISH, INSTALL AND CONNECT COMPLETE.	20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT 18" A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.	A. 11/02/18 CLIENT REVIEW
	<u>PART 2 – PRODUCTS</u> A. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. (EXCEPT AS NOTED OTHERWISE FOR CONTROL WIRING). ALL	<ul> <li>20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT 18"</li> <li>A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.</li> <li>20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), RECESS FLOOR MOUNTED. PROVIDE BRASS</li> </ul>	
	<ul> <li>CONDUCTORS SHALL BE 98% CONDUCTIVITY, COPPER WITH "THHN-THWN" INSULATION UNLESS OTHERWISE NOTED.</li> <li>B. ELECTRICAL METALLIC TUBING (EMT) SHALL BE OF BEST QUALITY STEEL, SMOOTH INSIDE AND OUT</li> </ul>	<ul> <li>20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), RECESS FLOOR MOUNTED. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.</li> <li>20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), CEILING MOUNTED.</li> </ul>	
	AND SHALL BE HOT-DIPPED GALVANIZED. C. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.	SPECIAL-PURPOSE RECEPTACLE	
	D. RIGID NONMETALIC CONDUIT SHALL BE SCHEDULE 40 PVC. E. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE. F. PANELBOARDS:	<ul> <li>JUNCTION BOX</li> <li>SINGLE GANG JUNCTION BOX FOR POWER CONNECTION TO MODULAR FURNITURE SYSTEM</li> </ul>	
	<ol> <li>CURRENT CARRYING BUSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER.</li> <li>ALL CIRCUIT BREAKERS SHALL BE BOLT ON. PLUG-IN BREAKERS ARE NOT ACCEPTABLE.</li> <li>CIRCUIT BREAKERS USED AS SWITCHES IN FLUORESCENT OR HID LIGHTING CIRCUITS SHALL</li> </ol>	OF       INSTALL IN EXACT MANNER AS DIRECTED BY FURNITURE SUPPLIER.         OT/D       DOUBLE GANG JUNCTION BOX FOR TELEPHONE/DATA CONNECTION TO MODULAR FURNITURE	
	BE LISTED AND MARKED "SWD" 4. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE. 5. A.I.C. RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES.	SYSTEM. INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER. EXTEND (2) 3/4" EMPTY CONDUITS FROM JUNCTION BOX TO ABOVE CEILING AND TERMINATE WITH INSULATING BUSHING 6" FROM WALL.	
	<ol> <li>ALL PANELBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4" ENGRAVED LETTERING FOR PANEL IDENTIFICATION.</li> <li>ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE-WRITTEN DIRECTORY OF BRANCH CIRCUIT DESIGNATIONS.</li> </ol>	<ul> <li>TELE/POWER POLE FOR TELEPHONE/DATA/POWER CONNECTION TO MODULAR FURNITURE</li> <li>8 WRE SYSTEM (SEE DETAIL THIS SHEET). INSTALL IN EXACT MANNER AND LOCATION</li> <li>AS DIRECTED BY FURNITURE SUPPLIER, WIREMOLD CATALOG # 25DTP-4D W/IVORY FINISH.</li> <li>SPECIAL PURPOSE RECEPTACLE MOUNTED BELOW RAISE FLOOR.</li> </ul>	
	<ul> <li>G. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK. ENCLOSURES SHALL BE NEMA-1 FOR INDOOR LOCATIONS, NEMA 3R FOR OUTDOOR LOCATIONSOR AS OTHERWISE NOTED.</li> <li>H. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC AS INDICATED ON THE ELECTRICAL DRAWINGS, WITH</li> </ul>	EF EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS.	
	OVERLOAD RELAYS IN EACH PHASE. I. WIRING DEVICES (GENERAL PURPOSE RECEPTACLES AND WALL SWITCHES) COLOR SHALL BE COORDINATED WITH CLIENT.	<ul> <li>\$ SINGLE POLE, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.</li> </ul>	
	PART 3 - EXECUTION A. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:	$_3$ 3-way, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.	Architect:
	<ol> <li>208/120 VOLTS, 3 PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BLACK, 1 RED AND 1 BLUE. GROUNDED (NEUTRAL) CONDUCTOR; WHITE. GROUNDING CONDUCTORS SHALL BE GREEN.</li> <li>480/277 VOLT, 3-PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BROWN, 1 YELLOW, AND</li> </ol>	$\$ single pole, 20 AMP, switch with dimmer. Mount 46" A.F.F. to centerline of switch unless otherwise noted.	
	<ol> <li>PURPLE. GROUNDED (NEUTRAL) CONDUCTORS; GREY. GROUNDING CONDUCTORS SHALL BE GREEN.</li> <li>BRANCH CIRCUIT WIRING (#6 AND SMALLER) SHALL BE COLOR CODED BY CONTINUOUS INSULATION COLOR AND FEEDERS AND SERVICES (#4 AND LARGER) SHALL BE CODED AT ALL JUNCTION OR PULL POINTS (EXCEPT LB'S OR LBD'S) USING COLOR MARKERS OR PLASTIC TAPE MANUFACTURED</li> </ol>	M MOTOR RATED SWITCH $S_{MD}$ OOCCUPANCY SWITCH, WATTSTOPPER, MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH	
	FOR THE PURPOSE. B. WIRING METHODS 1. ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS	UNLESS OTHERWISE NOTED. TWO POLE, 30 AMP SWITCH. MOUNT ADJACENT EQUIPMENT TO BE CONTROLLED.	
	OTHERWISE NOTED, SPECIFIED OR AS SPECIFICALLY PROHIBITED BY THE AUTHORITY HAVING JURISDICTION. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL RAIN TIGHT COMPRESSION TYPE OR ALL STEEL CONCRETE TIGHT SET SCREW TYPE.	FACTORY MOUNTED DISCONNECT/STARTER (SEE MECHANICAL SCHEDULE)	DONADIO
	<ul> <li>2. SCHEDULE 40 PVC CONDUIT, WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL</li> <li>BE INSTALLED UNDERGROUND OR BELOW SLABS ON GRADE.</li> <li>3. TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR</li> </ul>	$\square$ A $\frac{B}{C}$ FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING	& Associates, Architects P.A. 609 17th Street Vero Beach, FL 32960
OTES	USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.	B = A = B FUSIBLE MOTOR STARTER DISCONNECT SWITCH A = POLES, B= NEMA SIZE, C= FUSE RATING	Tel.772.794.2929 Fax.772.562.8600 License No. AA0002238 www.donadio-arch.com
TRODE CONDUCTOR CONDUIT.	C. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. AND LOCAL CODES.	GROUNDING ELECTRODE & CONDUCTOR SYSTEM	Consultant:
I. ELECTRICALLY CON- CING BAR (20FT MIN. BUILDING FOUNDATION	<ul> <li>D. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.</li> <li>E. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS</li> </ul>	ELECTRICAL PANELBOARD	
A EARTH. METER COPPER DRIVEN	<ul> <li>ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.</li> <li>F. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES, AND SHALL BE FULLY COORDINATED WITH THEM PRIOR TO COMMENCEMENT OF WORK.</li> </ul>	œ━━━━━ TELEPHONE WOOD BACKBOARD	
I. (TYPICAL)	<ul> <li>G. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND WIRING DEVICES, FOR ALL OUTLETS AS INDICATED.</li> <li>H. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW</li> </ul>	WP WEATHERPROOF T/C TIME CLOCK	
ETALLIC COLD WATER FIRST VALVE WITH	<ul> <li>H. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF NEC, NEMA, AND IECE.</li> <li>I. CONTRACTOR SHALL SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING</li> </ul>	RE RELOCATED	
ROUND CLAMP. IG JUMPER AROUND	<ul> <li>I. CONTRACTOR SHALL SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.</li> <li>J. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.</li> <li>K. ALL LAY-IN LIGHTING FIXTURES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER.</li> </ul>	E EXISTING TO REMAIN A.F.F. ABOVE FINISH FLOOR	
	<ul> <li>K. ALL LAY-IN LIGHTING FIXTORES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER.</li> <li>L. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.</li> <li>M. ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL</li> </ul>	• CEILING MOUNTED DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.	
	<ul> <li>ALL ELECTRICAL FOWER WIRING FOR THE HVAC STSTEM INCLUDING WIRING THRO LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.</li> <li>N. CONDUCTORS FOR BRANCH CIRCUITS SHALL BE INCREASED FROM SIZES INDICATED ON PANEL SCHEDULES TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST DEVICE. LOADS FOR DETERMINING CONDUCTOR</li> </ul>	• CEILING MOUNTED LOW VOLTAGE DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.	Drawing Title:
	SIZE SHALL BE BASED ON ACTUAL CONNECTED LOAD OR 80% OF BREAKER SIZE, WHICHEVER IS GREATER. CONTACT ENGINEER OF RECORD FOR ALL RUNS IN EXCESS OF 100 FT. FOR DETERMINATION OF WIRE SIZE. FOR BID PURPOSES, INCREASE WIRE BY ONE (1) WIRE SIZE FOR RUNS 100 FT. TO 200 FT. AND TWO (2)		ELECTRICAL NOTES
	WIRE SIZES FOR RUNS OVER 200 FT. O. FEEDER CONDUCTORS SHALL BE INCREASED FROM SIZES INDICATED ON RISER DIAGRAM TO PREVENT VOLTAGE DROP EXCEEDING 2%. LOADS FOR DETERMINING CONDUCTOR SIZE SHALL BE BASED ON ACTUAL		Reference North
	CONNECTED LOAD OR 80% OF BREAKER SIZE, WHICHEVER IS GREATER. P. THE CONTRACTOR SHALL CONFIRM WITH THE ELECTRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATION, TRANSFORMER		
	SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS. THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED DOWN TIME FOR THE OWNERS CONFIRMATION. Q. ANY CONFLICTS AND DESCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE		
	<ul> <li>Q. ANY CONFLICTS AND DESCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.</li> <li>R. PER NEC 210.8(B)(2) ALL 15- AND 20-AMPERE, 125-VOLT RECEPTACLES IN NONDWELLING-TYPE KITCHENS TO BE GFCI PROTECTED.</li> </ul>	ISSUED FOR REVIEW - NOT FOR PRICING OR CONSTRUCITON	Drn: Dw <u>MT</u> Chd: XR
		KAMM CONSULTING PROJECT #: 2019-0073 PROJECT MANAGER: DUANE MILLAR	AJD Project No.: Plo
		<b>VKANN</b> Idva Orange Avenue Fort Pierce, Florida 34950 Phone 772.595.1744 bbrown@kammconsulting.com	2018-23.002 Sheet No.:
		Consulting borown@kammconsulting.com Certification of Authorization #8189	Cert. No.: 12456





# ELECTRICAL PLAN

	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:
NEL	
	DONADIO
	& Associates, Architects P.A. 609 17th Street Vero Beach, FL 32960
	Tel.772.794.2929 Fax.772.562.8600 License No. AA0002238
	www.donadio-arch.com Consultant:
	Drawing Title:
	Drawing Title: LIGHTING PLAN
	LIGHTING PLAN
	LIGHTING PLAN
ISSUED FOR REVIEW NOT FOR PRICING OR CONSTRUCITON	- Drn: Dwg. File
NOT FOR PRICING OR CONSTRUCITON KAMM CONSULTING PROJECT #: 2019-0073 PROJECT MANAGER: DUANE MILLAR	Initial content         Image: content conten
NOT FOR PRICING OR CONSTRUCITON KAMM CONSULTING PROJECT #: 2019-0073	Initial content         Image: content conten

- 1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACC DRAWINGS, THE FLORIDA BUILDING CODE 2017 AND ALL O COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITI PUBLICATIONS; SMACNA-85, 92, 95; ASHRAE 15-01, 34-90A-02, 90B-02, 91-99, 96-01; ANSI Z10.1-98, Z10.3-2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSP COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF 3. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE 4. THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH "A 5. CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE [5] COL DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS 6. ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL ALL EQUIPMENT SHALL BE UL OR ETL LISTED. ALL INSTALLATIONS SHALL COMPLY WITH FMC 2017, CH. LOCATED WITHIN 3,000 FT FROM THE OCEAN SHALL UTILIZ ALL OUTDOOR EXPOSED SUPPORTS, STANDS, FASTENERS, 7. DUCTWORK: A. ALL AIR CONDITIONING DUCT WORK SHALL BE OF 1-1/ REINFORCED FIBERGLASS WITH MANUFACTURER'S LOGO PR ALL FLEXIBLE DUCT TO BE R-6 WITH A MAX. TOTAL LENG INSTALL UL LISTED FOR PLENUM, FLEXIBLE DUCTWORK ELE GRILLE, AND REGISTER EQUAL TO "FLEXFLOW ELBOW" AS B. ALL OUTDOOR EXPOSED DUCTWORK SHALL BE GALVAN TO UNITED MCGILL "K-27", WITH MIN. R-8 INSULATION AN THE CONTRACTOR SHALL PROVIDE ALL SHEETMETAL DUCT PROVIDE SOLID LINER AND COAT WITH TWO COATS OF COI PROVIDE OPTIONAL (OWNER'S DECISION) ALUMINUM OR ST C. ALL FLEX DUCT SHALL BE RATED CLASS I, UL-181 LIS LINERS, MIN. R-6 WITH A MAX. TOTAL LENGTH NOT TO EX FLEXIBLE DUCTWORK ELBOW SUPPORTS AT EACH DIFFUSER ELBOW" AS MANUFACTURED BY "THERMAFLEX". D. ALL METAL EXHAUST, MAKE-UP OR OTHERWISE DUCTS CONDITIONS CAN OCCUR INSIDE THE DUCT SHALL BE EXTE THE CONTRACTOR SHALL PROVIDE ALL SHEETMETAL DUCTV ALL METAL DUCTS SHALL BE FABRICATED IN ACCORDANCE SPECIAL NOTE: SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING 6", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED CLASS SHOWN ON PLANS. WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA OF VAV BOXES. ALL DUCTWORK SHALL BE SEALED TO SMACNA "HVAC DUC ITS PRESSURE CLASS SEALING METHODS. 8. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE WITH SEALED SEAMS AND JOINTS. ALL OUTSIDE AIR DUCT EXTERNAL BLANKET INSULATION R-6 MIN. ALL METAL EXHAUST, MAKE-UP OR OTHERWISE DUCTS IN CONDITIONS CAN OCCUR INSIDE THE DUCT SHALL BE EXTE 9. OUTSIDE AIR INTAKES SHALL BE SCREENED WITH A CORRO THAN 1/2" MESH. O/A INTAKES SHALL NOT BE TAKEN FR FROM ANY CHIMNEY, VENT OUTLET OR SANITARY SEWER
- IS NOT LESS THAN 24 INCHES ABOVE THE OUTSIDE AIR OUTSIDE AIR INTAKE VENTS LOCATED ON ROOFS WILL BE MARKING "INTAKE", PERMANENTLY ATTACHED PER FMC 20 10. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS. 11. ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) S
- CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKE SPECIFIED BY ARCHITECT. DEVICES SHALL BE AS SPECIFIE PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AN PLANS. PROVIDE BALANCING DAMPERS FOR ALL SUPPLY / TO ENSURE COMPLAINCE WITH FMC 2017, PAR. 601.4 AND 12. TEMPERATURE CONTROLS/THERMOSTAT:
- A. SHALL BE COMBINATION COOLING/HEATING, WITH SYSTE HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES. PF RECOMMENDED BY MANUFACTURER, HONEYWELL OR EQUAL
- 13. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER INSTALL THERMOSTAT 48" TO 54" A.F.F. PER A.D.A REQUI MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECT FOR JUNCTION BOXES, CONDUITS, CONTROL WIRING, POWER AND SCOPE OF WORK FOR EACH TRADE PRIOR TO ANY PL WHENEVER THERE ARE MORE THAN ONE SENSOR OR THEF
- GANGED TOGETHER WITHIN THE SAME COVER PLATE WHER CONTRACTOR SHALL COORDINATE THIS ISSUE WITH ARCHIT SHALL BRING ANY DISCREPANCY TO THE ENGINEER'S ATT 14. REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD D
- BRAZING-JOINT TYPE FITTINGS, USE BRAZING MATERIALS PER AWS A5.8: BCuP SERIES COPPER-PHOSPHORUS ALLO REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S SOFT COPPER TYPE "M" SHALL BE ALLOWED FOR RISER PI NUMBER OF JOINTS. COORDINATE WITH ENGINEER FOR PRIC ALL EXPOSED INSULATION SHALL BE PROTECTED WITH UV

ELECTION D/	<u> </u>				FAN DATA MOTOR D				TA	Α			GENERAL DATA			
TAG	SERVICE AREA	MANUF.(*)	MODEL	CONFIG.	CFM	ESP ("WG)	SONES	HP	RPM	DRIVE	VOLTAGE	WEIGHT (LBS)	DIMENSIONS L"xW"xH"	OPENING L"×W"	CONTROL	ACCESSORIES
EF-1	RR	PANASONIC	WHISPERFIT/ FV-08-11VFM5	CEILING	70	.2	1.5	27 WATT	_	DIRECT	120/1/60	12	18X14X10	*	MOTION SENSOR	*
<ol> <li>PROVID</li> <li>PROVID</li> <li>PROVID</li> <li>PROVID</li> <li>PROVID</li> <li>PROVID</li> <li>SUPPO</li> <li>PROVID</li> <li>PROVID</li> </ol>	DE GRILL COLOR PER AF DE BACK DRAFT DAMPEI DE FACTORY MOUNTED I CTION. COORDINATE WIT DE BIRD SCREEN. DE BALANCING DAMPER. RT FROM STRUCTURE C DE WEATHERHOOD DRAIN DE FAN WITH BUILT IN M	R. LOCATE BA DISCONNECT S H ELECTRICAL COMPLETE WIT N AND CORRC	ACK DRAFT DAMPI SWITCH AND INTEC CONTRACTOR PF H VIBRATION ISOL ISION PROTECTION	RAL THERM RIOR TO PU ATORS.	IAL OVERLO	DAD				<ul> <li>b. ALL COI ACCORD</li> <li>c. FIELD A</li> <li>d. ALL OU EXCEED ALL DIR</li> <li>e. COORDIN</li> <li>f. SEE PR ADDITIO</li> <li>g. ALL FAN</li> <li>h. ALL EQU</li> </ul>	NTINUOUS-D DING TO NAT DJUST OPEN TDOOR EQUIF A NOISE LE RECTIONS. NATE WITH E OJECT PLAN NAL INFORM NS ON ROOF UIPMENT SH/	UTY MOTOF IONAL ELEC IINGS WITH PMENT SHA EVEL OF 65 ELECTRICAL S AND SPE ATION. SHALL BE ALL COMPL	RS SHALL BE CTRICAL CODE STRUCTURE. ALL COMPLY 6 dB AS MEA CONTRACTOR CONTRAC	PROVIDED E PAR. 430- WITH LOCAL SURED RADI R BEFORE B FOR OTHER S PER ARCH LOAD REQU	L CONTRACTOR. WITH OVERLOAD PROTE -32. ZONING NOISE ORDINA ALLY 30 FT. FROM THE IDDING OR ORDERING A FIELD SUPPLIED ITEMS ITECTURAL SPECIFICATIO IREMENTS SET BY LOC Y BE REQUIRED: CONTE	NCE OR NOT E EQUIPMENT IN NY EQUIPMENT. AND ONS. AL CODES,

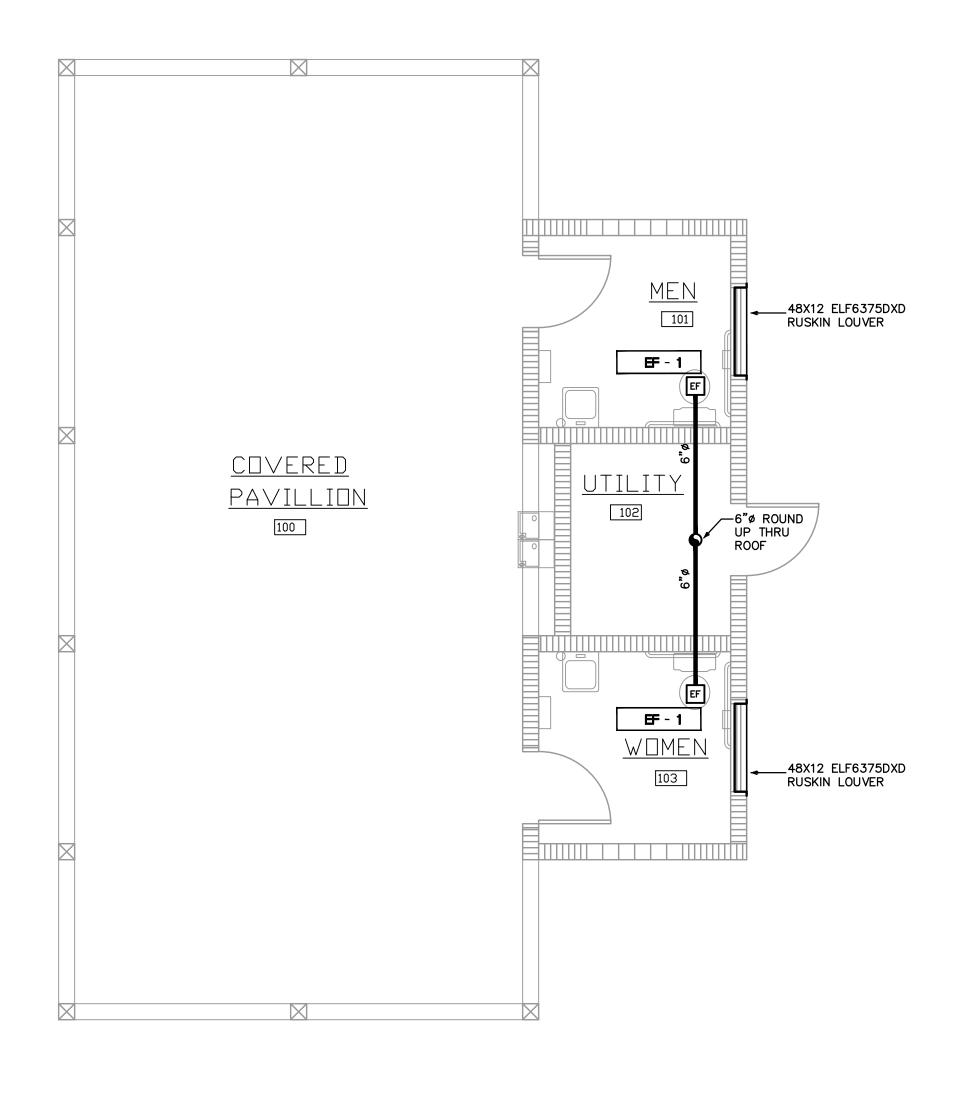
			Project:
MECHANICAL NC	TES	MECHANICAL SHEET INDEX	
S, AND EQUIPMENT NECESSARY CORDANCE WITH THESE	15. ARMAFLEX INSULATION SHALL BE USED FOR SUCTION LINES (1/2" FOR ABOVE 40° F AND 1" FOR BELOW 40° F) PER FLORIDA ENERGY CODE TABLE C403.2.8 FOR PIPING INSULATION.	SHEET# DESCRIPTION	New Restroom/Pavillion
OTHER APPLICABLE STATE, TON OF THE FOLLOWING –01, 62–04; NFPA 70–02, 72–02, –98, Z21.8–94, Z21.83–98.	FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES. 16. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS. PROVIDE RADIUS ELBOWS WHERE FEASIBLE, SQUARE ELBOWS AND TEE'S SHALL BE FURNISHED W/SINGLE FOIL TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE-OFFS.	M0.1     MECHANICAL NOTES, LEGEND & INDEX       M2.1     MECHANICAL FLOOR PLAN	at Jones' Pier
SPECTIONS AND ALL OTHER THIS WORK.	PROVIDE REMOTE, CABLE OPERATED VOLUME DAMPERS IN INACCESIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR" OR EQUAL. 17. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE START-UP,		for
E WORK WITH OTHER TRADES. AS-BUILT" DRAWINGS.	REPLACE PRIOR TO FINAL ACCEPTANCE BY OWNER. 18. PROVIDE SMOKE DETECTORS WITH SERVICE ACCESS DOORS IN ALL RETURN AIR DUCTS	MECHANICAL LEGEND	Indian River County Parks
PIES OF MANUFACTURER'S LS INCLUDED IN CONTRACT. F GOOD QUALITY. ALL WORK SHALL	FOR FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. FOR SMOKE DETECTORS NOT VISIBLE, IN CONCEALED SPACES, PROVIDE REMOTE ANNUNCIATION/TEST STATION AS REQUIRED BY AUTHORITY HAVING JURISDICTION, COORDINATE PRIOR TO INSTALLATION. DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING. UPON	SUPPLY AIR CEILING DIFFUSER	Division ST FAN Indian River County, Florida
BY CERTIFIED PROFESSIONALS. 3, GENERAL REGULATIONS. BUILDINGS ZE NON-FERROUS MATERIALS FOR	DETECTION, SMOKE DETECTORS SHUT DOWN ASSOCIATED AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVING THAT COMMON PLENUM. 19. PROVIDE TYPE "B" DYNAMIC FIRE DAMPERS WITH SERVICE ACCESS DOORS IN ALL DUCTS AND	RETURN AIR CEILING GRILLE	
ETC. /2" (R-6) HEAVY DUTY FOIL RINTED ON VAPOR BARRIER GTH NOT TO EXCEED 15 FT.	OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, TENANT SEPARATION, PARTITIONS, FLOOR OR ROOF SLABS AND AT OUTSIDE AIR INTAKES AS REQUIRED. PROVIDE RADIATION DAMPERS IN RATED CEILINGS FOR ALL CEILING OPENINGS, CEILING FANS, DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY. PROVIDE LOW-LEAKAGE CLASS DAMPERS FOR ALL SITUATIONS WHERE THE AIRFLOW CFM	LINEAR DIFFUSER THERMOSTAT MANUAL VOLUME CONTROL DAMPER REFRIGERANT SENSOR MD MOTORIZED DAMPER	
BOW SUPPORTS AT EACH DIFFUSER, MANUFACTURED BY "THERMAFLEX". NIZED, DOUBLE WALL SHEETMETAL EQUAL ND SEALED SEAMS AND JOINTS. WORK, HANGERS, AUX. SUPPORT STEEL, ETC.	HAS TO BE CONTROLLED. VERIFY AND REPLACE AS REQUIRED FOR EXISTING SYSTEMS. 20. HVAC CONTRACTOR SHALL PROVIDE A T & B REPORT PER F.E.C. 2017, CH. C408.2.2, (THE T & B REPORT SHALL BE INDEPENDENT FOR SYSTEMS OVER 15 TONS) FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AHU'S AND FANS. THE TEST AND BALANCE REPORT SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL	FD     FIRE DAMPER     SP     STATIC PRESSURE SENSO       Note: Sensor Static pressure sensor     SP     DUCT SMOKE DETECTOR	R
DROSION-RESISTANT PAINT OR EQUIVALENT. TAINLESS STEEL CONSTRUCTION. STED WITH METALLIZED INNER AND OUTER FOIL XCEED 15 FT. R, GRILLE, AND REGISTER EQUAL TO "FLEXFLOW	STANDARDS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES AND EXHAUST GRILLES AND THE LEAVING AND ENTERING AIR TEMPERATURE (°F) FROM SUPPLY GRILLES AND EVAPORATORS. FOR (EXISTING) SMOKE EVACUATION SYSTEMS HVAC CONTRACTOR SHALL PROVIDE A T & B REPORT PRIOR TO ANY NEW WORK, PROVING THAT THE SMOKE EVACUATION SYSTEM PERFORMS	FLEX DUCT       AP - ACCESS PANEL         S       EXISTING FLEX DUCT         AD - ACCESS DOOR	
NSTALLED IN LOCATIONS WHERE DEWPOINT ERNALLY INSULATED WITH R-6 MIN. WORK, HANGERS, AUX. SUPPORT STEEL, ETC.	PER ORIGINAL DESIGN DOCUMENTS AND IS COMPLIANT WITH LOCAL CODE REQUIREMENTS. 21. RUN INSULATED FIRE RATED CONDENSATE DRAINS AS REQUIRED. 22. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.	VCD VOLUME CONTROL DAMPE VCD VOLUME CONTROL DAMPE MOD MANUALLY OPERATED DA	No · Date · Description
E WITH LATEST EDITION OF S.M.A.C.N.A. B PRESSURE ARE: 1/2", 1", 2", 3", 4", ED FOR THE SPECIFIC DUCT PRESSURE	23. MECHANICAL EQUIPMENT ON ROOF OR ELEVATED STRUCTURES SHALL COMPLY WITH FBC 2017 PAR. 306.5 IF INSTALLED HIGHER THAN 16 FEET A.F.F. MECHANICAL EQUIPMENT INSTALLED IN ATTICS SHALL MEET THE REQUIREMENTS OF FBC 2017 PAR. 306.3 IF THE EQUIPMENT CAN NOT BE SERVICED/REMOVED THROUGH REQUIRED OPENING. MECHANICAL EQUIPMENT SHALL BE PROTECTED WITH MECHANICAL BARRIERS IF EXPOSED TO	Image: Supply & Outside Air Section (DN)       Image: Supply & Outside Air Diffuser or Grille Design of CFM         Image: Supply & Outside Air Section (DN)       Image: Supply & Outside Air Diffuser or Grille Design of CFM         Image: Supply & Outside Air Section (DN)       Image: Supply & Outside Air Diffuser or Grille Design of CFM         Image: Supply & Outside Air Section (DN)       Image: Supply & Outside Air Diffuser or Grille Design of CFM         Image: Supply & Outside Air Section (UP)       Image: Supply & Outside Air Diffuser or Grille Design of CFM	
T VOLUME SYSTEMS, 1" W.G. PRESSURE STANDARDS REGARDLESS OF VELOCITY. VOLUME SYSTEMS, 2" W.G. PRESSURE STANDARDS FOR DUCTWORK UPSTREAM	MECH. DAMAGE. ALL EQUIPMENT SHALL BE INSTALLED ON 6" CONCRETE PAD AT GRADE LEVEL . <b>SPECIAL NOTE:</b> ALL WIND LOAD AND OTHER COMPLIANCE CALCULATIONS AND/OR INSTALLATION DETAILS FOR ROOF MOUNTED EQUIPMENT AS REQUIRED BY FBC 2017, SEC. 1509, 1522 AND CHAPTER 16, SHALL BE PROVIDED BY STRUCTURAL ENGINEER/ARCHITECT.	DN RETURN OR EXHAUST DUCT SECTION (DN)	ROL PANEL
ICT CONSTRUCTION STANDARDS" FOR GALVANIZED SHEET METAL SHALL BE INSULATED WITH	24. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120-208 VOLT PANELS AND MIN. 42" CLEARANCE IN FRONT OF ANY 240-480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC.	ROUND UP     ⊷∼u/c     DOOR UNDER CUT       H     SHOE TAP DAMPER     TAG - ●     EQUIPMENT TAG	
STALLE DE INSOLATED WITT STALLED IN LOCATIONS WHERE DEWPOINT ERNALLY INSULATED WITH R-6 MIN. OSION RESISTANT MATERIAL NOT LARGER ROM A LOCATION CLOSER THAN 10 FT. VENT OUTLET, UNLESS SUCH VENT VENT.	25. MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS SHALL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING	ROOFTOP UNIT SOLENOID VALVE. ROOFTOP UNIT ROOFTOP UNIT CARTU- OUTSIDE AIR ROOF TOP RTU- ROOF TOP UNIT VAV- VARIABLE VOLUME BOX EF - EXHAUST FAN	UNIT
PROPERLY MARKED WITH A UNIVERSAL D17, SEC. 401.5.1 SHALL BE ALL ALUMINUM	EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT. 26. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT, IN ORDER TO PROVIDE A FULLY INTEGRATED MECHANICAL AND CONTROLS SYSTEMS WITH THE EXISTING ONES.	RE RELOCATE WALL CAP	
D ENAMEL FINISH OR AS ED OR EQUAL TO TITUS OR METALAIRE. ND REGISTERS AS INDICATED ON AND RETURN DIFFUSERS AND REGISTERS D PAR. 603.15 FOR BALANCED AIR FLOW.	ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS, OR ADDITIONAL CLARIFICATION REQ'D SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO FINAL BIDDING AND WORK. 27. NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM	HVAC ABBREVIATION LEGEND	
EM "COOL-AUTO- ROVIDE PROGRAMMABLE TYPE AS L. PROVIDE TAMPER PROOF COVERS.	HAS ANY DECK TO DECK PARTITIONS, AIR TRANSFER DUCTS MUST BE INSTALLED. WHEN CPVC PIPING IS USED FOR FIRE SPRINKLER SYSTEMS, THE R/A GRILLES LAYOUT SHALL BE (FIELD) COORDINATED WITH SUCH PIPING SO THAT NO PORTION OF THE GRILLES WILL BE DIRECTLY BELOW THE CPVC PIPING.	AC AIR CONDITIONING MCA MINIMUM CIRCUIT AMPS (FOR WIRE SIZ AFF ABOVE FINISH FLOOR MOD MANUALLY OPERATED DAMPER	Architect:
AND ENGINEER BEFORE INSTALLATION. IREMENTS WHERE APPLICABLE. TRICAL CONTRACTOR ALL REQUIREMENTS R, ETC. AND DEFINE RESPONSIBILITIES PURCHASING OR INSTALLATION. RMOSTAT, SIDE BY SIDE, THEY SHALL BE	28. CONDENSATE DRAIN PIPING TO BE AS SPECIFIED PER PLUMBING PLANS, IF NOT SPECIFIED TO BE TYPE "L" COPPER OR PVC WHERE ALLOWED BY CODE WITH 1/2" ARMAFLEX INSULATION. PROVIDE APPROVED WATER LEVEL DETECTOR OR FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN THE AIR COND. UNIT, AS A SECONDARY DRAIN SYSTEM TO COMPLY WITH FMC 2017, SEC. 307 SUPPLY CONDENSATE PUMP WHERE NECESSARY AS IMPOSED BY FIELD CONDITIONS OR INSTALLATION CHANGES AND PIPE TO CONDENSATE DRAIN PER PLUMBING PLANS.	BDDBACK DRAFT DAMPERMOCPMAXIMUM OVERCURRENT PROTECTIONCDCONDENSATE DRAINNCNOISE CRITERIACOPCOEFFICIENT OF PERFORMANCEO/AOUTSIDE AIRDBDRY BULBOBDOPOSITE BLADE DAMPER	
REVER POSSIBLE. TECT/OWNER PRIOR TO INSTALLATION AND ENTION. DRAWN WITH WROUGHT COPPER FOR HIGH PRESSURE PIPING	29. MANUFACTURER'S WARRANTY: CONTRACTOR SHALL PROVIDE WARRANTY FOR A PERIOD OF (1) ONE YEAR AFTER BUILDING C.O. FOR ALL MECHANICAL SYSTEMS, DUCTWORK, CONTROLS ACCESSORIES AND ALL OTHER EQUIPMENT, PARTS AND LABOR UNDER THESE DRAWINGS AND AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE WARRANTY FOR COMPRESSORS FOR (5) FIVE YEARS. ANY REPAIRS REQUIRING SYSTEM SHUTDOWN WILL BE DONE DURING NON-OPERATIONAL PERIODS OR AS AGREED WITH OWNER.	DIA.DIAMETERPDPRESSURE DROP.EEXISTING TO REMAINREXISTING TO BE RELOCATEDEERENERGY EFFICIENCY RATIOR/ARETURN AIR	DONADIO & Associates, Architects P.A. 609 17th Street Vero Beach, FL 32960 Tel.772.794.2929 Fax.772.562.8600
OY OR BAg1 SILVER ALLOY. X'S RECOMMENDATIONS. PIPING INSIDE CHASE TO LIMIT IOR APPROVAL. Y RESISTANT PAINT OR ALUMIN. SHIELD.	30. CONTRACTOR SHALL PROVIDE 5 SETS OF COORDINATED DUCTWORK AND EQUIPMENT SHOP DRAWINGS. SHOP DRAWINGS TO REFLECT EQUIPMENT LOCATION AND DUCTWORK ROUTING IN COORDINATION WITH STRUCTURAL SHOP DRAWINGS, FIRE SPRINKLER SHOP DRAWINGS, PLUMBING SHOP DRAWINGS AND FINAL ARCHITECTURAL REFLECTED CEILING PLANS.	EDHELECTRIC DUCT HEATEREFEXHAUST FANESPEXTERNAL STATIC PRESSUREFFILTER	License No. AA0002238 www.donadio-arch.com
FAN SCHED	ULE	F     FILTER       FD     FIRE DAMPER       FD     FIRE DAMPER       FLA     FULL LOAD AMPS.       FMS     FLOW MEASURING STATION	
MOTOR DATACFMESP ("WG)SONESHPRP70.21.527 WATT-	- DIRECT 120/1/60 12 18X14X10 * MOTION SENSOR *	IPLV INTEGRATED PART-LOAD VALUE. NOTE: NOT ALL SYMBOLS MAY APPLY TO THESE	PLAN.
RGE.	GENERAL FAN NOTES: a. MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED), ALL NORMAL EQUIPMENT POWER, AND EMERGENCY POWER WIRING BY ELECTRICAL CONTRACTOR. b. ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ACCORDING TO NATIONAL ELECTRICAL CODE PAR. 430-32.		
- OVERLOAD HASE.	<ul> <li>c. FIELD ADJUST OPENINGS WITH STRUCTURE.</li> <li>d. ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT EXCEED A NOISE LEVEL OF 65 dB AS MEASURED RADIALLY 30 FT. FROM THE EQUIPMENT IN ALL DIRECTIONS.</li> <li>e. COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE BIDDING OR ORDERING ANY EQUIPMENT.</li> </ul>		Drawing Title: <b>MECHANICAL NOTES</b>
	<ul> <li>f. SEE PROJECT PLANS AND SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL INFORMATION.</li> <li>g. ALL FANS ON ROOF SHALL BE PAINTED AS PER ARCHITECTURAL SPECIFICATIONS.</li> <li>h. ALL EQUIPMENT SHALL COMPLY WITH WIND LOAD REQUIREMENTS SET BY LOCAL CODES, ORDINANCES, OR AUTHORITIES. WIND LOAD RATING MAY BE REQUIRED; CONTRACTOR TO PROVIDE NOA RATING IF REQUIRED.</li> </ul>		Reference North
		ISSUED FOR REVIEW NOT FOR PRICING OR CONSTRUCTION	Drn: Dwg. File: MT XREF File:
		KAMM CONSULTING PROJECT #: 2019-0073 PROJECT MANAGER: DUANE MILLAR I408 Orange A Fort Pierce, Fle Phone 772,595 bbrown@kamr Certification of	venue AJD · · · · · Project No.: Plot File:

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Date Signed

PRINCIPAL Bradly L Brown

Florida License #58232



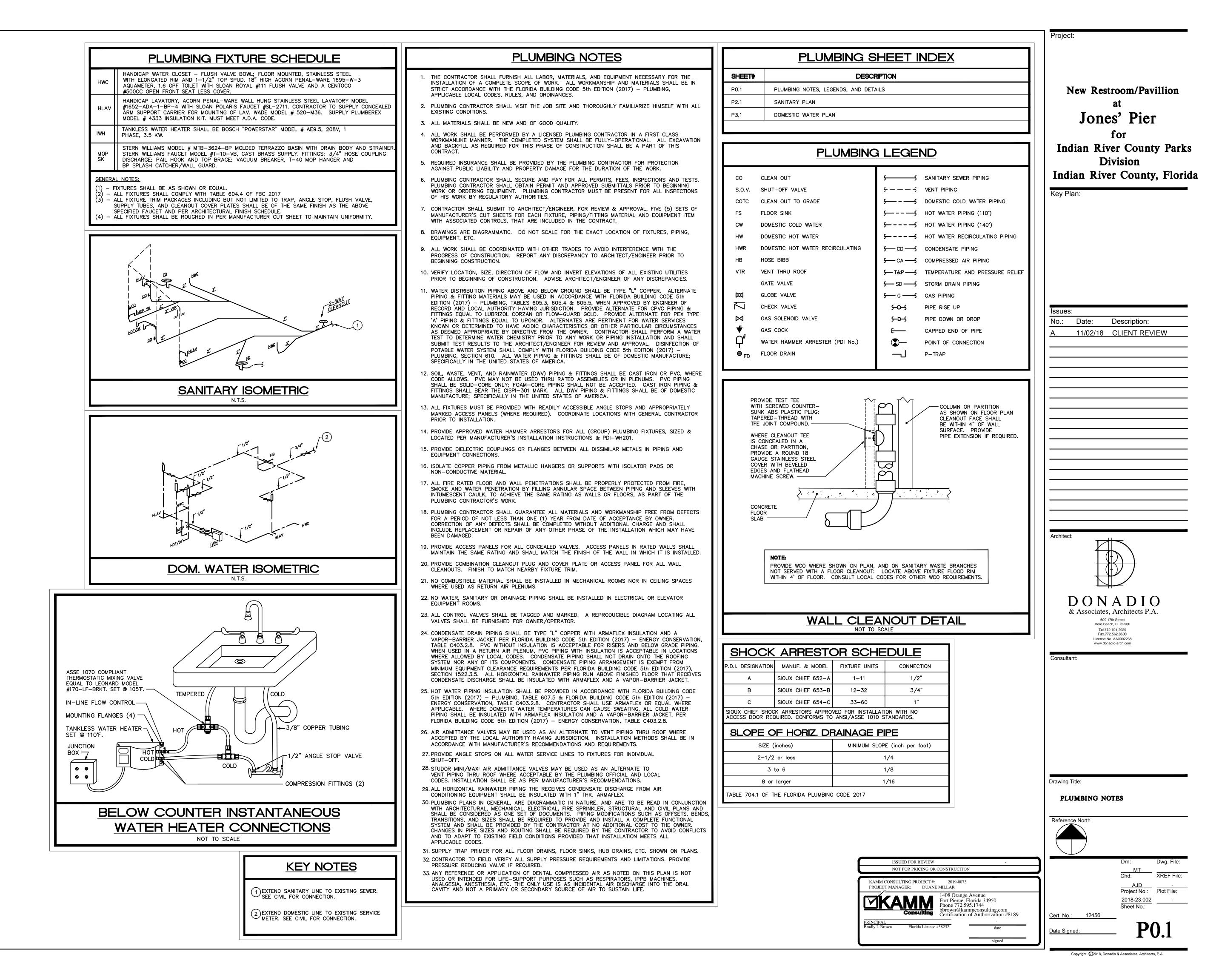


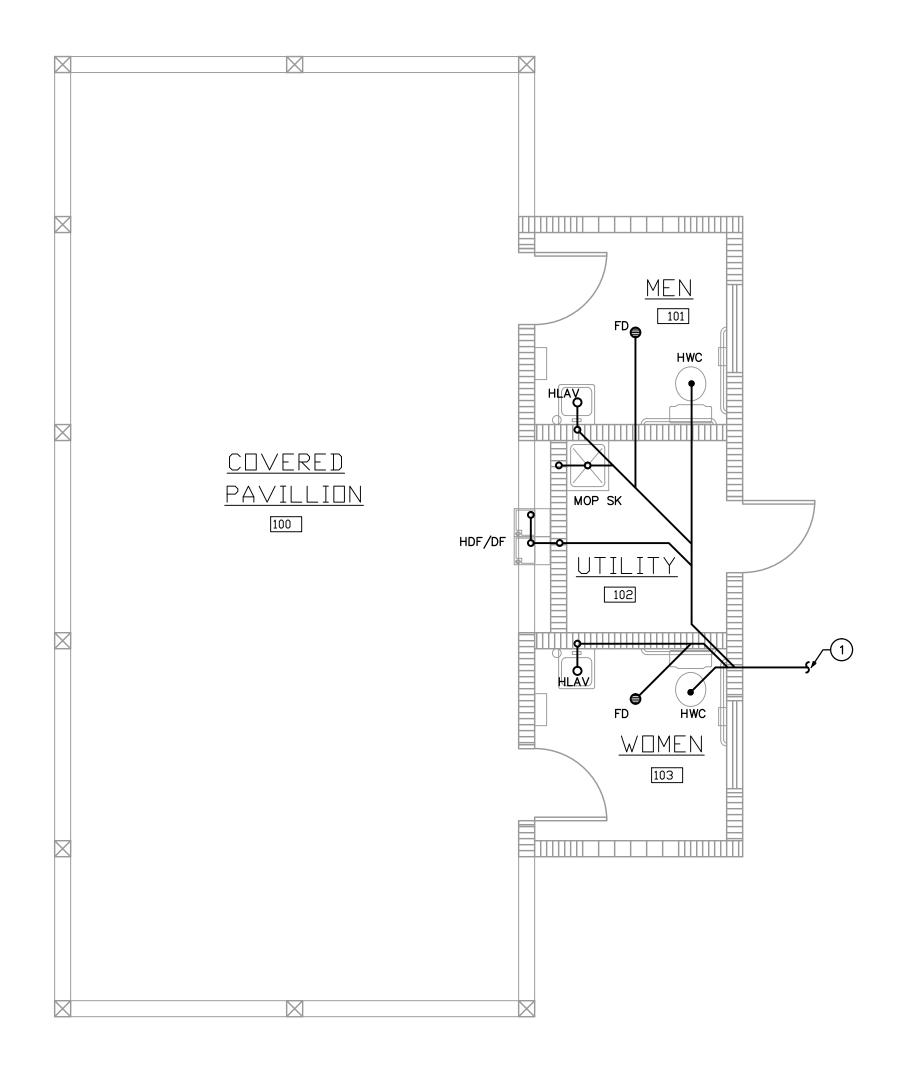
MECHANICAL PLAN 1/4"=1'-0"

	Project:
	New Restroom/Pavillion at Jones' Pier for Indian River County Parks Division Indian River County, Florida Key Plan:
	Issues:           No.:         Date:         Description:           A.         11/02/18         CLIENT REVIEW
	Architect:
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	Drawing Title: <b>MECHANICAL PLAN</b> Reference North     Image: Drawing D
m 1#8189	AJD       .         Project No.:       Plot File:         2018-23.002       .         Sheet No.:       .         Date Signed:       M21

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KAMM CONSULTING PROJECT #: PROJECT MANAGER: DUANI	2019-0073 E MILLAR		
	1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.595.1744 bbrown@kammconsulting.com Certification of Authorization #81		
PRINCIPAL Bradly L Proup Elorida Licence	+59222		
Bradly L Brown Florida License #58232 da			

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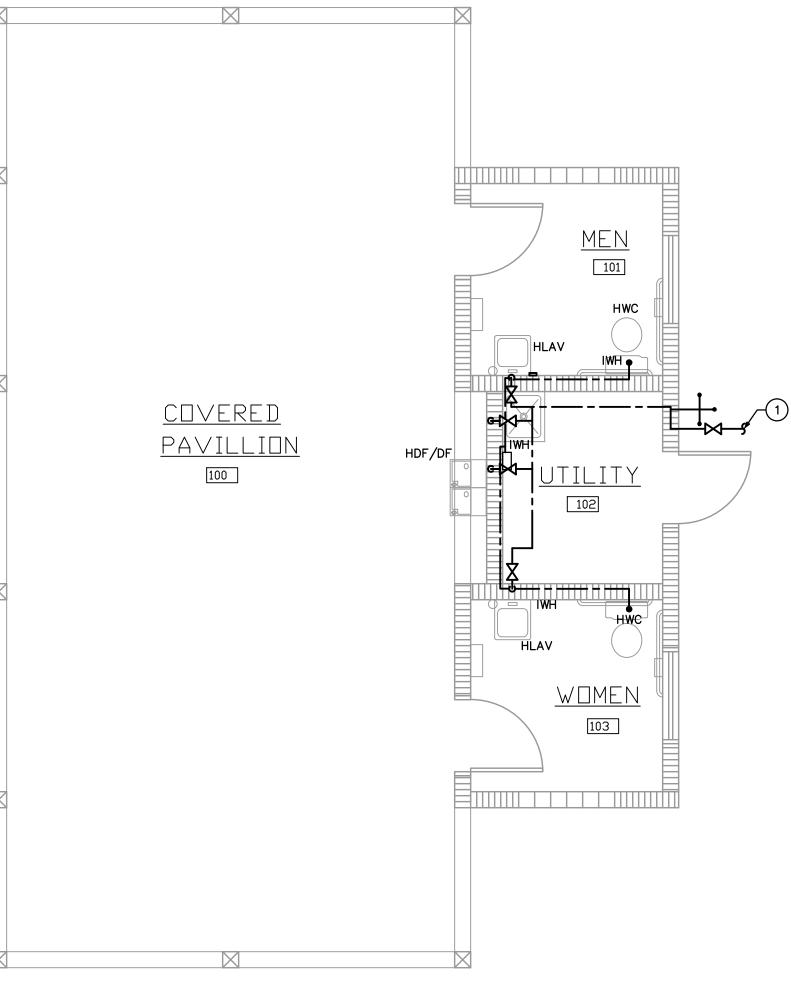


SANITARY PLAN 1/4\*=1'-0\*

	Project:
	New Restroom/Pavillion at Jones' Pier for Indian River County Parks Division Indian River County, Florid Key Plan:
	Issues:         No.:       Date:         Description:         A.       11/02/18         CLIENT REVIEW
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(1) CONNECT NEW SANITARY TO NEW SEWER LATERAL AS REQUIRED. SEE CIVIL SHEETS FOR CONTINUATION. COORDINATE INVERT ELEVATION AS REQUIRED PRIOR TO CONSTRUCTION.	Drawing Title:
ISSUED FOR REVIEW         NOT FOR PRICING OR CONSTRUCITON         KAMM CONSULTING PROJECT #:       2019-0073         PROJECT MANAGER:       DUANE MILLAR         Image: Consulting Consulting       1408 Orange Avenue         Fort Pierce, Florida 34950       Phone 772.595.1744         borown@kammconsulting.com       Certification of Authorization #8189         Image: PRINCIPAL       -         Bradly L Brown       Florida License #58232	Reference North         Image: Drn:       Dwg. File:         Image: Drn:

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# DOMESTIC WATER PLAN 1/4\*=1'-0\*



	Project:
	New Restroom/Pavillion at Jones' Pier for Indian River County Parks Division Indian River County, Florid Key Plan:
	Issues:           No.:         Date:         Description:           A.         11/02/18         CLIENT REVIEW
	Architect:
<u>KEY NOTES</u>	<section-header><section-header><text><text><text></text></text></text></section-header></section-header>
(1) CONNECT TO NEW WATER SERVICE AND METER S REQUIRED. SEE CIVIL SHEETS FOR EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION.	Drawing Title:   DOMESTIC WATER PLAN   Reference North   Image: State Sta
ISSUED FOR REVIEW         NOT FOR PRICING OR CONSTRUCITON         KAMM CONSULTING PROJECT #: 2019-0073         PROJECT MANAGER: DUANE MILLAR         IMAGE Avenue         Fort Pierce, Florida 34950         Phone 772.595.1744         brown@kammconsulting.com         Certification of Authorization #8189         PRINCIPAL         Bradly L Brown       Florida License #58232         adate	MT     MT       Chd:     XREF File:       AJD     ·       Project No.:     Plot File:       2018-23.002     ·       Sheet No.:     ·       Date Signed:     P3.1