

SHEET INDEX

CS-001	COVER SHEET/DRAWING INDEX
CS-002	SIGNATURE SHEET
GENERAL	
G-002	NOTES, ABBREVIATIONS, AND SYMBOL LEGEND
G-003	NOTES/SPECIFICATIONS
G-004	LIFE SAFETY
G-005	CODE ANALYSIS
ARCHITECTURAL	
A-100	FLOOR PLAN
A-101	ENLARGED PLAN - WOMEN'S RESTROOM
A-102	ENLARGED PLAN - CORE
A-103	ENLARGED PLAN - MEN'S RESTROOM
A-110	INTERIOR WALL TYPES
A-111	INTERIOR WALL TYPES
A-112	EXTERIOR WALL TYPES
A-113	EXTERIOR WALL TYPES
A-120	REFLECTED CEILING PLAN
A-130	ROOF PLAN
A-200	EXTERIOR ELEVATIONS
A-201	EXTERIOR ELEVATIONS
A-300	BUILDING SECTIONS
A-301	BUILDING SECTIONS
A-600	WALL SECTIONS
A-601	WALL DETAILS
A-602	WALL DETAILS
A-603	DETAILS
A604	DETAILS
A-605	DETAILS
A-606	MAIN BUILDING - ROOF DETAILS
A-607	MAIN BUILDING - ROOF DETAILS
A-608	MAIN BUILDING - ROOF DETAILS
A-700	DOOR SCHEDULE
A-701	WINDOW SCHEDULE
A-702	LOUVER ELEVATIONS
A-703	LOUVER DETAILS
A-704	DOOR DETAILS
A-705	WINDOW DETAILS
A-706	WINDOW DETAILS
A-800	FIXTURES AND ACCESSORIES MOUNTING HEIGHT
A-801	WOMEN'S RESTROOM TOILET ACCESSORIES PLAN
A-802	MEN'S RESTROOM TOILET ACCESSORIES PLAN
A-803	INTERIOR ELEVATIONS
A-804	INTERIOR ELEVATIONS
A-805	INTERIOR ELEVATIONS
A-806	INTERIOR ELEVATIONS
A-807	INTERIOR ELEVATIONS
A-808	INTERIOR ELEVATIONS
A-809	INTERIOR ELEVATIONS
A-810	INTERIOR ELEVATIONS
A-811	MILLWORK
A-812	SIGNAGE
A-900	FINISH PLAN
A-901	FINISH SCHEDULE
AD-701	DUMPSTER
AD-702	DUMPSTER DETAILS
AP-501	PICNIC PAVILION
AP-502	PICNIC PAVILION DETAILS
AS-601	STORAGE BUILDING
AS-604	STORAGE BUILDING - ROOF DETAILS
AS-605	STORAGE BUILDING - DOOR AND LOUVER DETAILS
STRUCTURAL	
S-001	GENERAL STRUCTURAL NOTES 1
S-002	GENERAL STRUCTURAL NOTES 2
S-003	GENERAL STRUCTURAL NOTES 3
S-004	GENERAL STRUCTURAL NOTES 4
S-100	FOUNDATION PLAN
S-101	SLAB ON GRADE PLAN
S-102	ROOF FRAMING PLAN
S-103	STORAGE ROOM
S-104	PICNIC PAVILION
S-105	DUMPSTER PLAN, SECTIONS AND DETAILS
S-301	TRUSS LOAD DIAGRAMS
S-302	SCHEDULES
S-303	SCHEDULES
S-401	FOUNDATION DETAILS
S-402	FOUNDATION DETAILS
S-403	FOUNDATION DETAILS
S-404	FOUNDATION DETAILS
S-501	MASONRY DETAILS
S-502	MASONRY DETAILS
S-503	MASONRY DETAILS
S-504	MASONRY DETAILS
S-601	DECK DETAILS
S-602	ROOF SECTIONS AND DETAILS
S-603	ROOF SECTIONS AND DETAILS
S-604	ROOF SECTIONS AND DETAILS
S-605	ROOF SECTIONS AND DETAILS

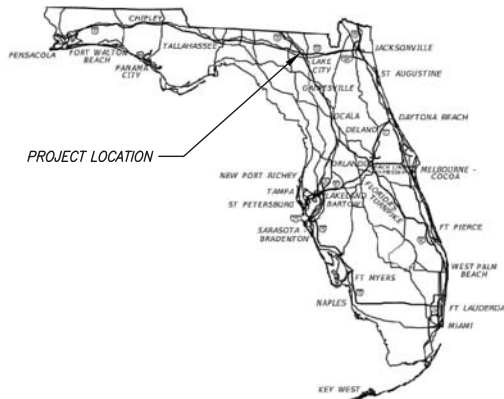
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 438609-1-52-01

SR 8 (I-10) REST AREA
COLUMBIA COUNTY (29170)

STATE ROAD NO. 8 (I-10)



GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2019-20 Standard Plans for Roads and Bridges Construction and applicable Interim Revisions (IRs)

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fltdot.gov/StandardPlans>

APPLICABLE IRs IR536-001-01, IR521-001-01

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, JULY 2019 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fltdot.gov/programmanagement/Implemented/SpecBooks>

FDOT
DESIGN PROJECT MANAGER: CRAIG ANTHONY TEAL
P.E. NO. : 35641

ARCHITECTURAL PLANS
ARCHITECT OF RECORD: DAN-MICHAEL JAY TRBOVICH
R.A. NO. : 96020

STRUCTURAL PLANS
ENGINEER OF RECORD: ROBERT RAY BEE
P.E. NO. : 88791

MECHANICAL AND ELECTRICAL PLANS
ENGINEER OF RECORD: AUGUSTO E. BOBES, JR
P.E. NO. : 39410

100% CONSTRUCTION DOCUMENTS

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS	COVER SHEET/DRAWING INDEX	DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				CS-001
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET NO.
						SR 8	COLUMBIA	438609-1-52-01	1 OF 2

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066



14:49:44 -05'00'

A100	ARCHITECTURAL FLOOR PLAN
A101	ENLARGED PLANN - WOMEN'S RESTROOM
A102	ENLARGED PLANN - CORE
A103	ENLARGED PLANN - MEN'S RESTROOM
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A602	WALL DETAILS
A603	DETAILS
A604	DETAILS
A605	DETAILS
A606	MAIN BUILDING - ROOF DETAILS
A607	MAIN BUILDING - ROOF DETAILS
A608	MAIN BUILDING - ROOF DETAILS
A700	CLOCK SCHEDULE
A701	WINDOW SCHEDULE
A702	COVER ELEVATIONS
A703	COVER ELEVATIONS
A704	DOOR DETAILS
A705	DOOR DETAILS
A706	WINDOW DETAILS
A801	FURNITURES AND ACCESSORIES MOUNTING HEIGHT
A802	TOILET TOWEL ACCESSORIES PLAN
A803	NESTEM TOILET TOWEL ACCESSORIES PLAN
A804	INTERIOR ELEVATIONS
A805	INTERIOR ELEVATIONS
A806	INTERIOR ELEVATIONS
A807	INTERIOR ELEVATIONS
A808	INTERIOR ELEVATIONS
A809	INTERIOR ELEVATIONS
A810	INTERIOR ELEVATIONS
A811	MELBYORK
A812	ISKANE
A900	FINSIH PLAN
A901	FINSIH SCHEDULE
A902	PUMPSHED
A903	PUMPSHED DETAILS
AP501	PICKUP PAVILION
AP502	PICKUP PAVILION DETAILS
A500	STORAGE BUILDING
A501	STORAGE BUILDING - ROOF DETAILS
A502	STORAGE BUILDING - ROOF DETAILS AND LOWER DETAILS

A circular professional engineer seal for Robert Ray Bee. The outer ring contains the text "ROBERT RAY BEE" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top, "No. 88791" is in the center, and "STATE OF FLORIDA" is at the bottom, also separated by two stars. A blue ink signature is written across the bottom of the seal.

- S-001 STRUCTURAL
- S-002 GENERAL STRUCTURAL NOTES 1
- S-003 GENERAL STRUCTURAL NOTES 2
- S-004 GENERAL STRUCTURAL NOTES 3
- S-004 GENERAL STRUCTURAL NOTES 4
- A-100 FOUNDATION PLAN
- S-101 SLAB ON GRADE PLAN
- S-102 ROOF FRAMING PLAN
- S-103 STORAGE ROOM
- S-104 PICNIC PAVILION
- S-105 DUMPTER PLAN, SECTIONS AND DETAILS
- S-106 TRUSS LOADING DETAILS
- S-302 SCHEDULES
- S-303 SCHEDULES
- S-402 FOUNDATION DETAILS
- S-403 FOUNDATION DETAILS
- S-404 FOUNDATION DETAILS
- S-502 MASONRY DETAILS
- S-503 MASONRY DETAILS
- S-504 MASONRY DETAILS
- S-602 DECK DETAILS
- S-603 ROOF SECTIONS AND DETAILS
- S-604 ROOF SECTIONS AND DETAILS
- S-604 ROOF SECTIONS AND DETAILS
- S-605 SECTIONS AND DETAILS

Robert Ray Bee

Digitally signed by Robert Ray
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DN:
E=r.bee@gaiconsultants.com,
CN=Robert Ray Bee,
OU=Power/Power & Industry,
O="GAI Consultants, Inc.",
L=Orlando, S=Florida, C=US
Date: 2020.11.12
10:32:57-0500'



This item has been electronically signed and sealed by Agostino S. Bonini, Jr., P.E. on the date shown on the time stamp using a digital signature.

Printed copies of this document are not considered signed and sealed and the electronic seal and signature are required.

- M-102 Hvac CONSTRUCTION NOTES
- M-103 Hvac OVERALL PLAN
- M-104 ENLARGED WORKS ROOM HVAC PLAN
- M-105 ENLARGED MENS ROOM OVERALL PLAN
- M-106 ENLARGED MENS ROOM SANITARY PLAN
- M-107 ENLARGED CORE HVAC PLAN
- M-108 ENLARGED STORAGE BUILDING HVAC PLAN
- M-109 Hvac OVERALL PLAN
- M-110 Hvac DETAILS
- M-111 Hvac CONTROLS
- M-112 Hvac DETAILS
- M-113 Hvac DETAILS
- M-114 Hvac SCHEDULES
- M-115 PLUMBING
- P-107 PLUMBING LEGEND AND GENERAL NOTES
- P-108 PLUMBING CONSTRUCTION AND MATERIALS NOTES
- P-109 PLUMBING OVERALL
- P-110 ENLARGED WORKS ROOM SANITARY PLAN
- P-112 ENLARGED MENS ROOM SANITARY PLAN
- P-113 ENLARGED MENS ROOM SANITARY PLAN
- P-114 DOMESTIC WATER OVERALL PLAN
- P-115 ENLARGED WORKS ROOM DOMESTIC WATER PLAN
- P-116 ENLARGED MENS ROOM DOMESTIC WATER PLAN
- P-117 ENLARGED CORE DOMESTIC WATER PLAN
- P-118 ENLARGED SANITARY ROOM DOMESTIC WATER DIAGRAM
- P-202 MENS ROOMS SANITARY RISER DIAGRAM
- P-203 MENS ROOMS SANITARY RISER DIAGRAM
- P-204 MENS ROOMS DOMESTIC WATER RISER DIAGRAM
- P-205 DOMESTIC WATER RISER DIAGRAM
- P-101 PLUMBING-DETAILS
- P-102 PLUMBING-DETAILS
- P-103 PLUMBING-SCHEDULES

- E-001 ELECTRICAL LEGEND AND GENERAL NOTES
- E-100 ELECTRICAL OVERALL PLAN
- E-101 MEN'S WOMEN'S ROOM POWER PLAN
- E-102 ENLARGED MEN'S ROOM POWER PLAN
- E-103 ENLARGED COCK POWER PLAN
- E-104 ENLARGED WOMEN'S ROOM LIGHTING PLAN
- E-105 ENLARGED MEN'S ROOM LIGHTING PLAN
- E-106 ENLARGED COCK LIGHTING PLAN
- E-107 ENLARGED WOMEN'S ROOM SYSTEMS PLAN
- E-108 ENLARGED MEN'S ROOM SYSTEMS PLAN
- E-109 ENLARGED COCK SYSTEMS PLAN
- E-110 ELECTRICAL PROTECTION DETAILS
- E-111 ENLARGED STORAGE BUILDING ELECTRICAL PLAN
- E-112 ENLARGED ELECTRICAL ROOM POWER PLAN
- E-113 ELECTRICAL PROTECTION DETAILS
- E-502 ELECTRICAL DETAILS
- E-601 ELECTRICAL RISER DIAGRAM
- E-602 ELECTRICAL RISER DIAGRAM
- E-603 LIGHTING FIXTURE SCHEDULE AND DIAGRAMS
- E-604 ELECTRICAL PANEL SCHEDULES
- E-605 ELECTRICAL PANEL SCHEDULES
- E-606 ELECTRICAL PANEL SCHEDULES

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

A circular seal for a Professional Engineer. The outer ring contains the text "CRAIG RICHARD ADAMS" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by three stars. The inner circle contains the text "LICENSE", "No. 89477", and "STATE OF FLORIDA" in descending order, also separated by three stars.

E-607 ELECTRICAL DISTRIBUTION OVERVIEW

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Page 10

Digitally signed by Craig Richard Adams
DN:
E=C.Adams@gaiconsultants.com,
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L=Orlando, St=Florida, C=US
Reason: I am approving this document
Date: 2020.11.12 09:58:27-0500

REVISIONS						GAI CONSULTANTS, INC. 600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS	DRAWING NO. CS-002
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SIGNATURE SHEET	SHEET NO. 2 OF 2
							SR 8	COLUMBIA	438609-1-52-01		

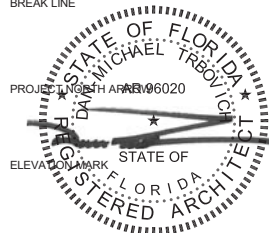
P:\1-10 Rest Area Improvements (19-049) GAI4 - Drawings\A - Active Drawings\1 - B+P\Local Files\DD\LOCAL\1-10 Rest_LOCAL_DD.rvt

ABBREVIATIONS

A.C.T.	ACOUSTIC CEILING TILE
A.F.F.	ABOVE FINISH FLOOR
A/C	AIR CONDITIONING
AL	ALUMINUM
BD.	BOARD
CORR.	CORRIDOR
C.J.	CONTROL JOINT
CLG.	CEILING
CONT.	CONTINUOUS
CU	CONDENSING UNIT
DIA.	DIAMETER
EA.	EACH
E.D.	EXISTING DOOR
E.G.	EXISTING GLAZING
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
EXIST.	EXISTING
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.V.	FIELD VERIFY
GA.	GAUGE
GYP.	GYPSUM
HT.	HEIGHT
H.M.	HOLLOW METAL
HR.	HOUR
HWR.	HARDWARE
IN.	INCHES
INST.	INSTALLATION
JT.	JOINT
MFG.	MANUFACTURER
MAX.	MAXIMUM
MIN.	MINIMUM
MTL.	METAL
MP.	MILE POST
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N/A	NONE APPLICABLE
N.I.C.	NOT IN CONTRACT
No.	NUMBER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P.E.	PROFESSIONAL ENGINEER
PNL.	PANEL
PR.	PAIR
P/S	PRESTRESSED
R	RADIUS
R.A.	REGISTERED ARCHITECT
SCHED.	SCHEDULE
S.C.W.	SOLID CORE WOOD
SEC.	SECTION
SIM.	SIMILAR
S.F.	SQUARE FEET
SPECS.	SPECIFICATIONS
STRUCT.	STRUCTURE
TB.	TABLE
TD.	TRAVEL DISTANCE
TYP.	TYPICAL

SYMBOL LEGEND

DRAWING NUMBER		DRAWING NAME	DRAWING TITLE REFERENCE
SHEET ON WHICH IS DRAWN		VIEW NAME	DRAWING SCALE
			DETAIL REFERENCE
		SECTION DESIGNATION	SECTION CUT
		ELEVATION DESIGNATION	INTERIOR ELEVATION MARK
			WALL TYPE
			DOOR NUMBER
			WINDOW TYPE
		ROOM	ROOM NAME AND NUMBER
			COLUMN LINE GRID DESIGNATION
			EXISTING TO BE REMOVED
			NEW WALL



REVISIONS						 BORRELLI + PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIORS 720 Tamiami Trail, Suite 700, Naples, FL 34102-4118 Tel: 813.481.1142 Copyright: All drawings are the property of Borrelli + Partners. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without prior written permission from Borrelli + Partners.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO. G002	
							SR 8	COLUMBIA	438609-1-52-01	NOTES, ABBREVIATIONS AND SYMBOL LEGEND		SHEET NO.	

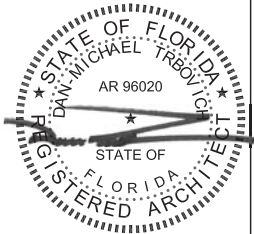
GENERAL NOTES

DIVISION 1: GENERAL REQUIREMENTS

- PROJECT INCLUDES BUILDINGS AT THE SITE INDICATED ON THE PLANS TO REPLACE EXISTING FACILITIES. THE CONSTRUCTION DOCUMENTS FOR THE NEW FACILITIES DESCRIBE BUILDINGS THAT FOLLOW PROGRAMMING ESTABLISHED BY FDOT DISTRICT 2 STAFF, AND DESIGN GUIDELINES FOUND IN THE FDOT FACILITIES DESIGN MANUAL, AND FPID 438608-1-52, ETC., APPENDIX B,C,G,H, AND J TO THE DESIGN-BUILD SPECIFICATIONS FOR THE PROJECT, DATED (3-1-16) (7-19) HEREIN AFTER REFERED TO AS THE SPECIFICATIONS.
1. GENERAL REQUIREMENTS AND COVENANTS ARE CONTAINED IN DIVISION 1 OF THE SPECIFICATIONS AND INCLUDED AND MADE PART OF THE CONSTRUCTION DOCUMENTS BY REFERENCE HEREIN.
2. BUILDING PLANS SHOW PROJECT NORTH FOR IDENTIFICATION OF FINISHES AND SYSTEMS. TRUE NORTH IS SHOWN ON SITE PLANS FOR BUILDING LOCATION AND ORIENTATION ONLY.
3. PROVIDE BOND(S), WARRANTY, COMMENCING AT THE DATE OF FINAL ACCEPTANCE, AGAINST FAILURE OF THE INSTALLED PRODUCTS, MATERIALS AND WORKMANSHIP. PER THE SPECIFICATIONS.
4. REFER TO SPECIFICATIONS FOR SUBMISSION OF PRODUCT DATA, SHOP DRAWINGS AND MANUFACTURER'S CERTIFICATIONS THAT THE PROPOSED PRODUCTS MEET THE SPECIFIED REQUIREMENTS AND STANDARDS LISTED HEREIN. REFER TO MECHANICAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MISCELLANEOUS WORK IMPACTED BY THIS PROJECT WHICH IS NOT IDENTIFIED BY THESE DOCUMENTS, BUT IS AFFECTED BY THE WORK, INCLUDING BUT NOT LIMITED TO, CUTTING, FITTING, PATCHING AND DAMAGE TO EXISTING FINISHES. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING JOB SITE CONDITIONS AND WITH THE SCOPE OF WORK TO DETERMINE WHAT ADJACENT SURFACES, MATERIALS, FINISHES AND EQUIPMENT SHALL BE IMPACTED BY THIS WORK. CONTRACTOR SHALL RESTORE ALL DAMAGED AND/OR DISTURBED SURFACES TO THEIR PRE-CONSTRUCTION CONDITIONS AT THE END OF THE WORK AND MATCH ADJACENT FINISHES TO THE BEST OF HIS ABILITY AS APPROVED AND ACCEPTED BY THE DEPARTMENT.
6. DURING THE COURSE OF THIS CONTRACT THE PROJECT SITE SHALL BE REGULARLY CLEANED. TRASH SHALL BE REMOVED FROM THE WORK AREA DAILY AS PART OF THE CLEANING PROCESS THROUGH OUT THE DURATION OF THE PROJECT. UPON COMPLETION OF ALL WORK, A FINAL CLEANING SHALL BE PERFORMED AND THE CONSTRUCTION SITE AND PREMISES SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITIONS EXCEPT THE NEW WORK.
7. PROPOSED CONTRACTOR'S STAGING AREA FOR MATERIAL AND EQUIPMENT STORAGE, AND CONTRACTOR PERSONNEL PARKING AREA TO BE PRESENTED BY G.C. FOR DEPARTMENT APPROVAL. ONCE APPROVED THEY SHALL BE CONTAINED WITHIN THE DESIGNATED STAGING AREA AT ALL TIMES.
8. ALL DRIVEWAYS SURROUNDING THE BUILDING PROJECT SITE AND ASSOCIATED PARKING SPACES SHALL REMAIN OPEN TO TRAFFIC AND UNOBSTRUCTED AT ALL TIMES THROUGHTOUT THE CONTRACT DURATION UNLESS OTHERWISE DIRECTED IN THE SPECIFICATIONS.
9. ANY AND ALL EXPENSES INCLUDING LABOR AND MATERIAL INCURRED BY THE CONTRACTOR FOR THE DELIVERY OF SALVAGED MATERIAL TO THE OWNER, THE COST WILL BE DEEMED AS INCIDENTAL TO THE CONSTRUCTION WORK.
10. THE DRAWINGS AND THE SPECIFICATIONS ARE INSTRUCTIONS DIRECTED TO THE CONTRACTOR NORMALLY OMITTING THE WORDS, "CONTRACTOR SHALL", AND THE INCLUSION OF ANY WORK BY MENTION, NOTE, OR ITEMIZATION, HOWEVER BRIEF, IMPLIES THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE IN OPERATING DETAIL.
11. DRAWINGS BEING COMPLIMENTARY, ANYTHING SHOWN IS INTERORETED TO BE IMPIED ON ALL OTHERS, REGARDLESS OF TRADE OR SUB-CONTRACT DIVISION OF WORK.
12. MECHANICAL AND ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL, NOT NECESSARILY TO SCALE.
13. THE WORD PROVIDE IS INTERPRETED TO MEAN FURNISH AND INSTALL.
14. THE MANUFACTURER'S STANDARD DETAILS SHALL APPLY UNLESS OTHERWISE DETAILED IN CONSTRUCTION DOCUMENTS.
15. REFER TO STRUCTURAL / MECHANICAL / ELETRICAL / PLUMBING PLANS FOR ADDITIONAL PROJECT GENERAL NOTES.

DIVISION 2: EXISTING CONDITIONS

1. COORDINTATE THESE NOTES WITH PROJECT DEMOLITION PLANS PACKAGE, AND EXISTING CONDITIONS, AS RELATED TO NEW BUILDING UTILITIES.
2. PROPOSED PROTECTION MEASURES: SUBMIT REPORT FOR APPROVAL, INCLUDING DRAWINGS, THAT INDICATES THE MEASURES PROPOSED FOR PROTECTING INDIVIDUALS AND PROPERTY, FOR DUST AND NOISE CONTROL. INDICATE PROPOSED LOCATIONS AND CONSTRUCTION OF BARRIERS, SCHEDULE OF SELECTIVE DEMOLITION ACTIVITIES WITH STARTING AND ENDING DATES FOR EACH ACTIVITY. OWNER TO BE NOTIFIED OF ANY SCHEDULE CHANGES OR MODIFICATIONS.
3. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
- STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE IS NOT PERMITTED.
 - UTILITY SERVICE: MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
 - MAINTAIN FIRE-PROTECTION FACILITIES IN SERVICE DURING SELECTIVE DEMOLITION OPERATIONS.
4. EXAMINATION: VERIFY THAT IF UTILITIES ARE REQUIRED TO BE DISCONNECTED OR CAPPED TO COORDINATE WITH THE DEPARTMENT BEFORE STARTING SELECTIVE DEMOLITION OPERATIONS.
5. UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS
- EXISTING SERVICES/SYSTEMS TO REMAIN: MAINTAIN SERVICES/SYSTEMS INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE.
 - EXISTING SERVICES/SYSTEMS TO BE REMOVED, RELOCATED, OR ABANDONED: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS SERVING AREAS TO BE SELECTIVELY DEMOLISHED.
 - a. OWNER WILL ARRANGE TO SHUT OFF INDICATED SERVICES/SYSTEMS WHEN REQUESTED BY CONTRACTOR.
 - b. ARRANGE TO SHUT OFF UTILITIES WITH UTILITY COMPANIES IF REQUIRED.
 - c. IF SERVICES/SYSTEMS ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE TEMPORARY SERVICES/SYSTEMS THAT BYPASS AREA OF SELECTIVE DEMOLITION AND THAT MAINTAIN CONTINUITY OF SERVICES/SYSTEMS TO OTHER PARTS OF BUILDING.
 - d. DISCONNECT, DEMOLISH, AND REMOVE FIRE-SUPPRESSION SYSTEMS, PLUMBING, AND HVAC SYSTEMS, EQUIPMENT, AND COMPONENTS INDICATED ON DRAWINGS TO BE REMOVED FROM BUILDING (IF EXISTING).
6. SITE ACCESS AND TEMPORARY CONTROLS: CONDUCT SELECTIVE DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
7. CLEANING
- REMOVE DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND DISPOSE OF THEM IN AN EPA-APPROVED CONSTRUCTION AND DEMOLITION WASTE LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
 - a. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
 - b. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
 - c. REMOVE DEBRIS FROM ELEVATED PORTIONS OF BUILDING BY CHUTE, HOIST, OR OTHER DEVICE THAT WILL CONVEY DEBRIS TO GRADE LEVEL IN A CONTROLLED DESCENT.
 - BURNING: DO NOT BURN DEMOLISHED MATERIALS.
 - CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE SELECTIVE DEMOLITION OPERATIONS BEGAN.



PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
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REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							G003
												SHEET NO.
								SR 8	COLUMBIA	438609-1-52-01	NOTES / SPECIFICATIONS	

P:\1-10 Rest Area Improvements (19-049) GAI4 - Drawings\A - Active Drawings\1 - B+P\Local Files\DD LOCAL\1-10 Rest_LOCAL_DD.rvt

LIFE SAFETY LEGEND

VARIOUS SYMBOLS

	EXIT SIGN (WALL MOUNTED)
	EXIT SIGN (CEILING MOUNTED)
EXIT SIGNS SHALL BE INSPECTED AND TESTED	
	EMERGENCY LIGHT - REFER TO ELECTRICAL PLANS
	F.E. WALL MOUNTED FIRE EXTINGUISHER (5LB MIN.) TYPE 2A CLASS 10ABC.
	F.E.C. FIRE EXTINGUISHER CABINET (5LB MIN.) TYPE 2A CLASS 10ABC.

FIRE EXTINGUISHERS WITH CURRENT CERTIFICATION AT TIME OF FINAL ACCEPTANCE. TRAVEL DISTANCE TO A FIRE EXTINGUISHER DOES NOT EXCEED 75 FEET AND ARE MOUNTED TO BOTTOM AT 2'-9 1/2" A.F.F. INSTALL FIRE EXTINGUISHER SIGNS AT 7'-0" A.F.F. FOR ALL INSTALLED F.E. LOCATIONS PER NFPA 1-TABLE 13.6.2. NFPA 10

FIRE SPRINKLERS ARE NOT REQUIRED FOR THIS PROJECT PER FL. NFPA 101 12.3.5.2 AND FBC 903.2.1.3. A-3 OCCUPANT LOAD LESS THAN 300 AND FIRE AREA LESS THAN 12,000 SQUARE FEET.

MEANS OF EGRESS

FOR FLOOR AREA NET OR GROSS & OCCUPANT LOAD PER ROOM (FOR LIFE SAFETY PURPOSES, SEE REFERENCE SHEET G005 FOR ROOM OCCUPANT LOAD CALCULATIONS.

X"		EXIT WIDTH PROVIDED MIN WIDTH PER OCCUPANT MAX EGRESS CAPACITY
X		
XX		

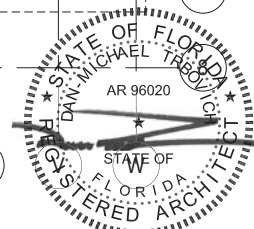
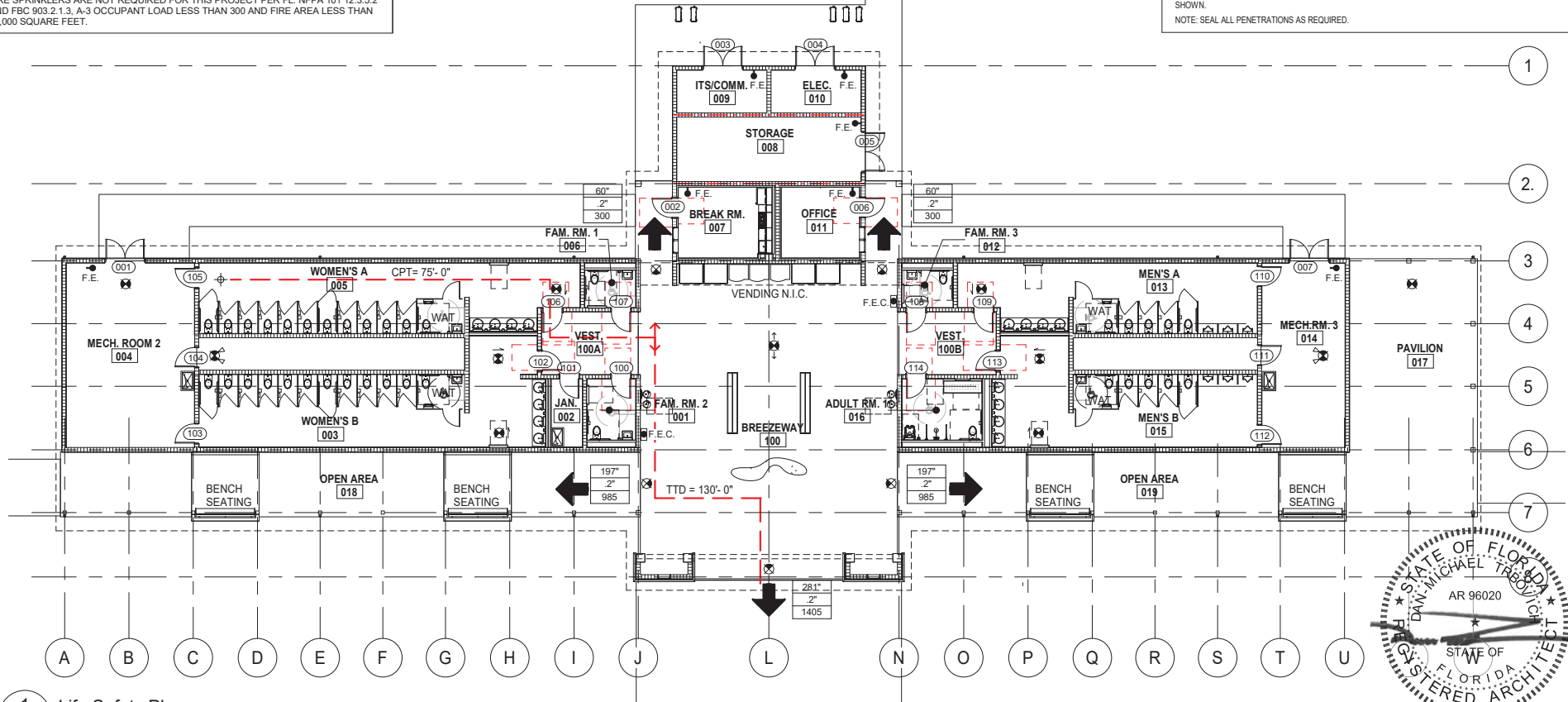
CPT X' - X"
TTD X' - X" COMMON PATH OF TRAVEL & TOTAL TRAVEL DISTANCE TO EXIT DISCHARGE

WALL ASSEMBLIES FIRE RATING

1-HR FIRE RATED PARTITION

NOTE: SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR LIFE SAFETY ITEMS NOT NECESSARILY SHOWN.

NOTE: SEAL ALL PENETRATIONS AS REQUIRED.



1 Life Safety Plan
G004 1/16" = 1'-0"

PROJECT NORTH

100% CONSTRUCTION DOCUMENTS

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	LIFE SAFETY	DRAWING NO. G004
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
						SR 8	COLUMBIA	438609-1-52-01			



P:\10 Rest Area Improvements (19-049) GMM - Drawings\A - Active Drawings\1 - B+PLocal Files\DD LOCAL\1-10 Rest_LOCAL_DD.rvt

PROJECT CRITERIA

OCCUPANCY CLASSIFICATION	(A-3) ASSEMBLY - TRANSPORTATION FACILITY, TRUCK AND VEHICLE REST AREA	NFPA 101 / 6.1.2
TYPE OF CONSTRUCTION	TYPE II-B	FBC BUILDING (TABLE 601)
SPRINKLERED OR NON-SPRINKLERED	NOT SPRINKLERED	
BUILDING HEIGHT	ALLOWABLE: 55'-0" ACTUAL: 33'-9"	FBC BUILDING (SECTION 501.3)
ALLOWABLE AREA	ALLOWABLE: 9,500.00 SF ACTUAL: 8,375.00 SF	FBC BUILDING (TABLE 506.2)

APPLICABLE CODES

DEPARTMENT	CODE	EDITION
BUILDING	FLORIDA BUILDING CODE (FBC)	2017, 6th EDITION
FIRE	FLORIDA FIRE PREVENTION CODE (FFPC)	2017, 6th EDITION
ACCESSIBILITY	FLORIDA BUILDING CODE - ACCESSIBILITY (FBC)	2017, 6th EDITION
MECHANICAL	FLORIDA BUILDING CODE - MECHANICAL (FBC)	2017, 6th EDITION
PLUMBING	FLORIDA BUILDING CODE - PLUMBING (FBC)	2017, 6th EDITION
FUEL GAS	FLORIDA BUILDING CODE - FUEL GAS	2017, 6th EDITION
LIFE SAFETY	NFPA 101	2015, FLORIDA SPECIFIC 2018 AMENDMENTS
ACCESSIBILITY	AMERICANS WITH DISABILITIES ACT (ADA)	
ELECTRICAL	NATIONAL ELECTRICAL CODE (NEC), NFPA 70	2014

EGRESS REQUIREMENTS

SECTION 3	FBC REQ'D	FBC - CODE SECTION	NFPA REQ'D
MAXIMUM DEAD END CORRIDOR	20 FT	SECTION 1020.4	20 FT
MAXIMUM TRAVEL DISTANCE	200 FT		200 FT
MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE	75 FT	SECTION 1006.2.1	75 FT
MINIMUM CORRIDOR WIDTH	44"	SECTION 1020.2	44"
MINIMUM CLEAR OPENING OF EXIT DOOR	32"	SECTION 1008.1.1	32"
MINIMUM NUMBER OF EXITS PER FLOOR	2 EACH	SECTION 1006.3.1	2 EACH

FEES, PERMITS AND INSPECTIONS

A. CONTRACTOR SHALL COMPLETE ALL ADDITIONAL APPLICATION NEEDED TO PULL/OBTAIN PERMIT FOR WORK UNDER THIS CONTRACT AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. PROCURE AND DELIVER TO THE ENGINEER ALL CERTIFICATES ISSUED BY THE AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL PAY FOR ALL PERMIT INSPECTIONS AND ASSOCIATED REVIEWS FOR WORK UNDER THIS CONTRACT.

C. THE WORK WILL BE OBSERVED BY THE DEPARTMENT DURING THE COURSE OF CONSTRUCTION. PROVIDE FOR INSPECTION BY OTHERS HAVING JURISDICTION DURING THE PROPER PHASES.

OCCUPANT LOAD - FBC (SECTION 1004.1.2)

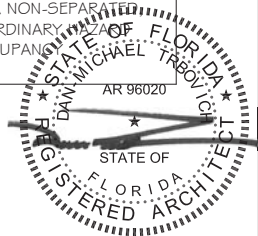
Number	Name	Area	Use	Load Factor ¹	Unit	Occupant Load (OL)
001	FAM. RM. 2	73 SF	UNOCCUPIED	0 SF	net	0
002	JAN.	53 SF	UNOCCUPIED	0 SF	net	0
003	WOMEN'S B	669 SF	UNOCCUPIED	0 SF	net	0
004	MECH. ROOM 2	575 SF	UNOCCUPIED	0 SF	net	0
005	WOMEN'S A	619 SF	UNOCCUPIED	0 SF	net	0
006	FAM. RM. 1	47 SF	UNOCCUPIED	0 SF	net	0
007	BREAK RM.	159 SF	ASSEMBLY	15 SF	net	11
008	STORAGE ²	288 SF	STORAGE	300 SF	net	1
009	ITS/COMM.	94 SF	UNOCCUPIED	0 SF	net	0
010	ELEC.	94 SF	UNOCCUPIED	0 SF	net	0
011	OFFICE	134 SF	BUSINESS	100 SF	gross	2
012	FAM. RM. 3	47 SF	UNOCCUPIED	0 SF	net	0
013	MEN'S A	479 SF	UNOCCUPIED	0 SF	net	0
014	MECH. RM. 3	375 SF	UNOCCUPIED	0 SF	net	0
015	MEN'S B	526 SF	UNOCCUPIED	0 SF	net	0
016	ADULT RM. 1	120 SF	UNOCCUPIED	0 SF	net	0
017	PAVILION	800 SF	ASSEMBLY	15 SF	net	54
018	OPEN AREA					0
018A	BENCH SEATING	100 SF				0
019	OPEN AREA					0
019A	BENCH SEATING	100 SF				0
020	CHASE	208 SF				0
021	CHASE	144 SF				0
100	BREEZEWAY	2072 SF	ASSEMBLY	15 SF	net	139
100A	VEST.	146 SF	ASSEMBLY	15 SF	net	10
100B	VEST.	149 SF	ASSEMBLY	15 SF	net	10

Grand total:

227

NOTES:

- LOAD FACTORS ARE SHOWN AS # SF NET PER PERSON UNLESS NOTED "GROSS"
- STORAGE IS INCIDENTAL TO THE PRINCIPAL ASSEMBLY OCCUPANCY AND IS NOT THE BASIS FOR OVERALL OCCUPANCY CLASSIFICATION AS A NON-SEPARATED MIXED OCCUPANCY. THE CONTENTS OF THIS STORAGE IS ORDINARY REQUIRING SEPARATION FROM THE REMAINDER OF THE OCCUPANCY IN COMPLIANCE WITH NFPA 101, 12.3.2(2) AND 8.7.1.1(1).



PROJECT NORTH

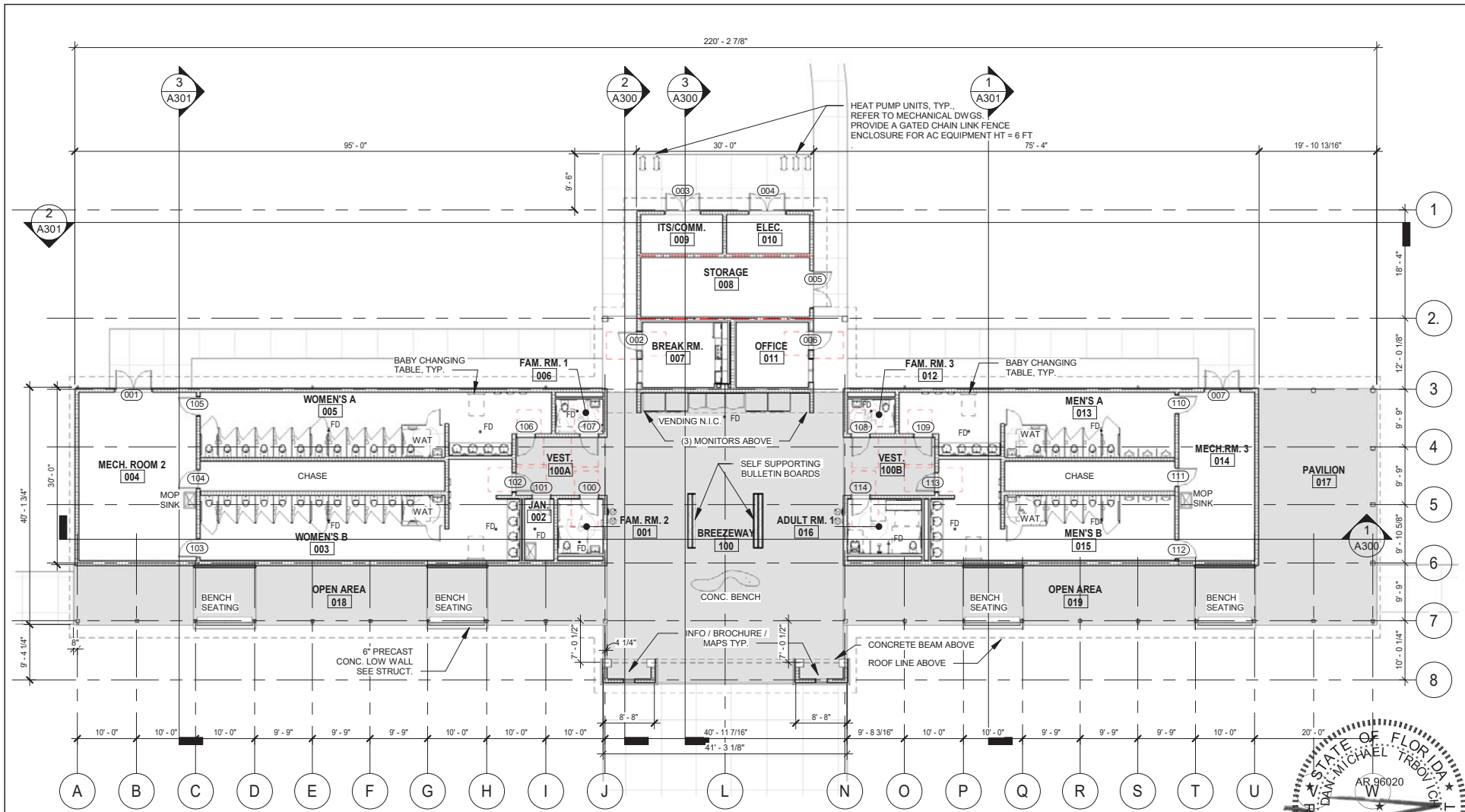
100% CONSTRUCTION DOCUMENTS

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	CODE ANALYSIS		SHEET NO.
						SR 8	COLUMBIA	438609-1-52-01			

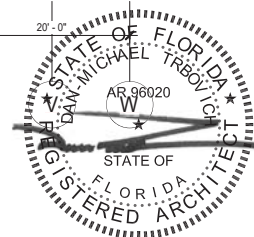


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1 FLOOR PLAN
A100 1/16" = 1'-0"



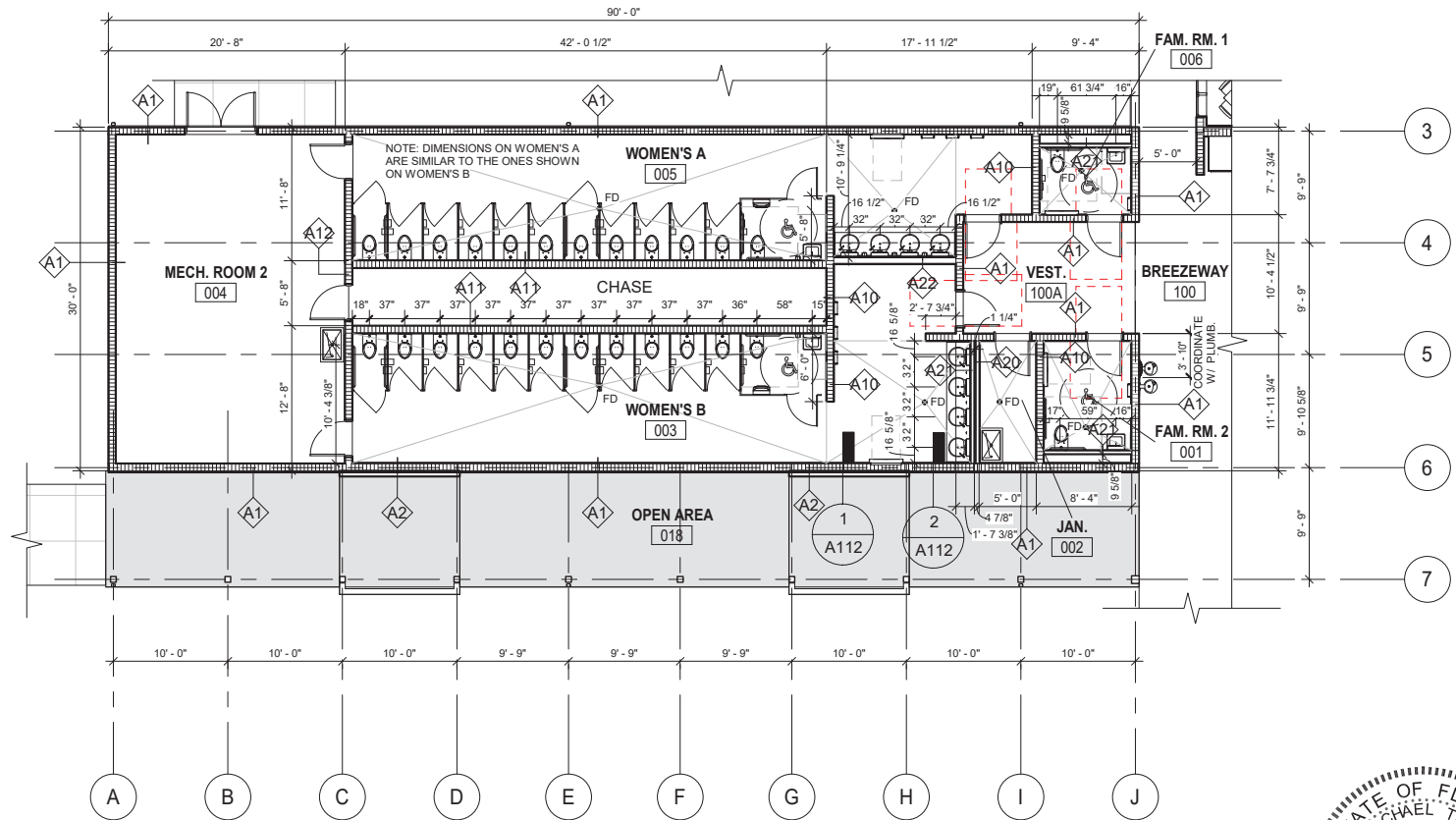
PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	FLOOR PLAN		A100
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.

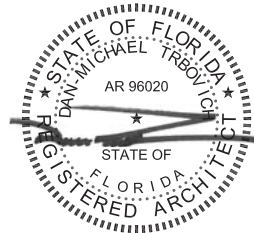


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1
A101 ENLARGED WOMENS
RESTROOM PLAN
3/32" = 1'-0"

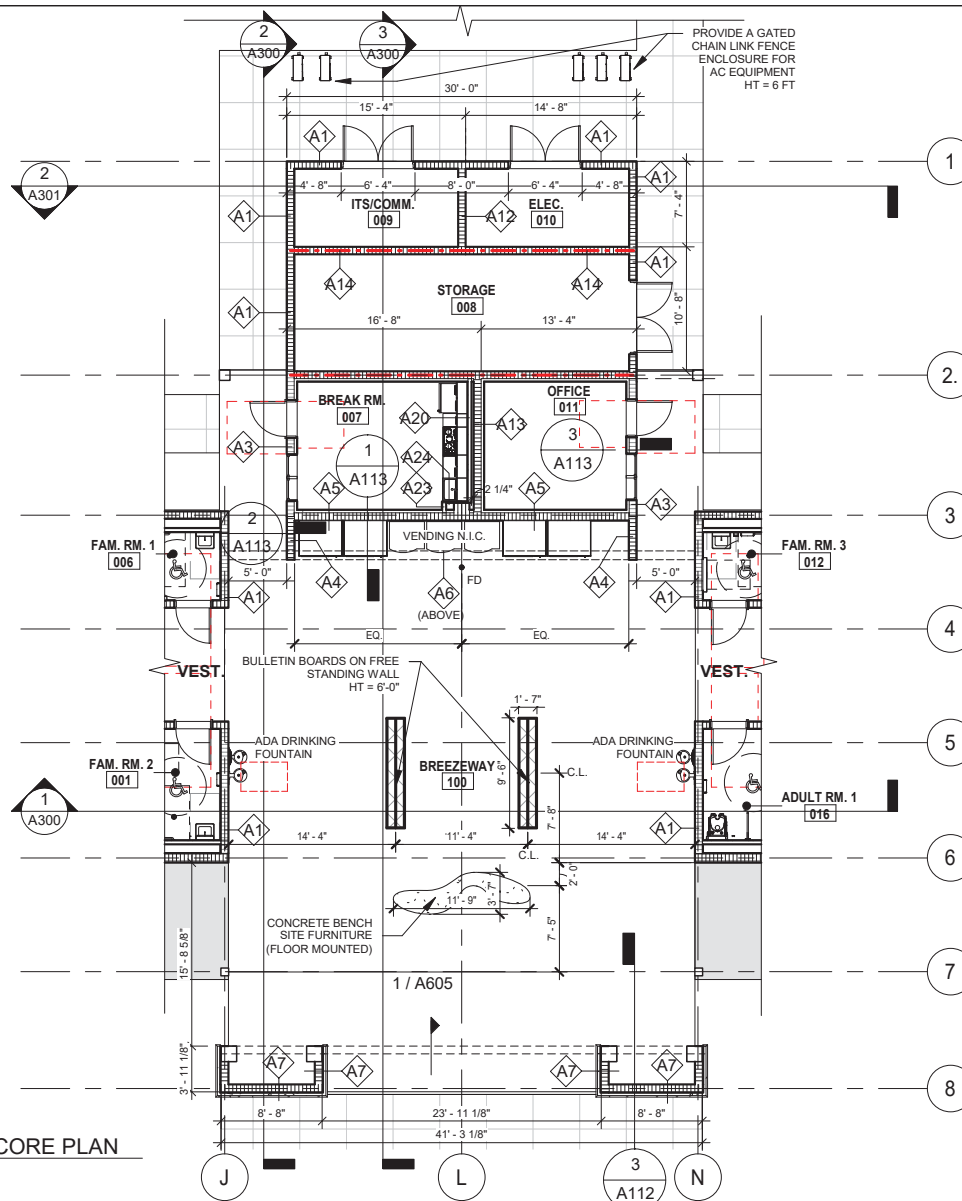


1 PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

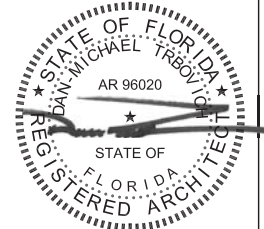
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	ENLARGED WOMENS RESTROOM	SHEET NO.
						SR 8	COLUMBIA	438609-1-52-01		



P:\1-10 Rest Area Improvements (19-049) GAI4 - Drawings\A - Active Drawings\1 - B+P\Local Files\DD\LOCAL\1-10 Rest_LOCAL_DD.rvt



1
A102 ENLARGED CORE PLAN
3/32" = 1'-0"

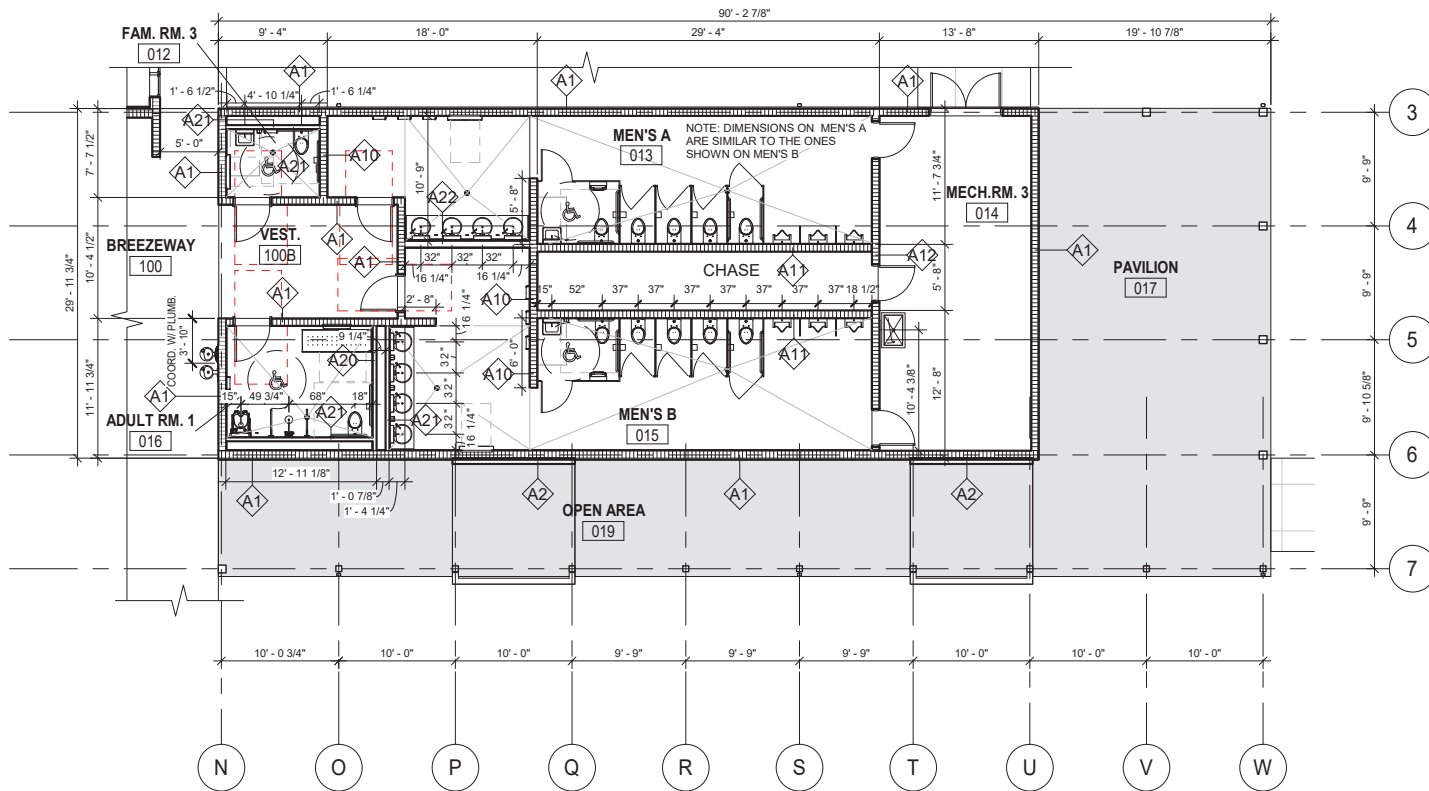


1 PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

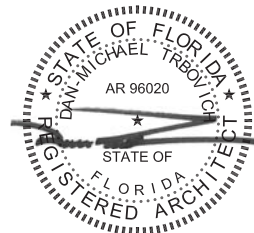
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	A102		
						SR 8	COLUMBIA	438609-1-52-01	ENLARGED CORE PLAN		SHEET NO.

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1
A103 ENLARGED MENS RESTROOM
PLAN
3/32" = 1'-0"






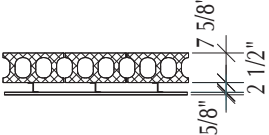
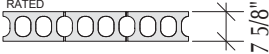
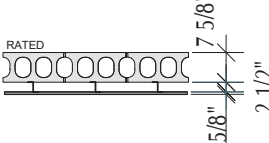
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			A103	
						ENLARGED MENS RESTROOM PLAN		SHEET NO.	

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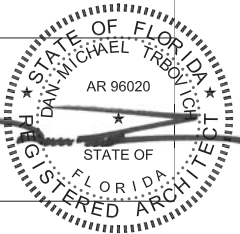
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

Interior Wall Type Schedule - CMU

TYPE	HEIGHT	INDICATION	DESCRIPTION	RATING	REMARKS
A10	12'-0" HT.		8" CMU TO INDICATED HEIGHT	NON-RATED	SEE STRUCT FOR REINFORCING STEEL REQUIREMENTS
A11	12'-0" HT.		8" CMU TO INDICATED HEIGHT WALL TILE (THIN SET)	NON-RATED	SEE STRUCT FOR REINFORCING STEEL REQUIREMENTS
A12	FULL SIZE (TO STRUCTURE)		8" CMU FULL SIZE TO STRUCTURE	NON-RATED	SEE STRUCT FOR REINFORCING STEEL REQUIREMENTS
A13	FULL SIZE (TO STRUCTURE)		8" CMU FULL SIZE TO STRUCTURE 2-1/2" "Z" FURRING CHANNELS 16 GA. @16" 5/8" GYPSUM WALL BOARD	NON-RATED	SEE STRUCT FOR REINFORCING STEEL REQUIREMENTS
A14	FULL SIZE (TO STRUCTURE)		8" <u>RATED</u> CMU FULL SIZE TO STRUCTURE	1 HR RATED	SEE STRUCT FOR REINFORCING STEEL REQUIREMENTS
A15	FULL SIZE (TO STRUCTURE)		8" <u>RATED</u> CMU FULL SIZE TO STRUCTURE 2-1/2" "Z" FURRING CHANNELS 16 GA. @16" 5/8" GYPSUM WALL BOARD	1 HR RATED	SEE STRUCT FOR REINFORCING STEEL REQUIREMENTS

NOTE: WALL TYPES FOR EXTERIOR WALLS ARE SHOWN ON THE WALL SECTIONS SHEETS A112 AND A113



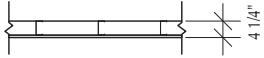




PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	DRAWING NO. A110
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	INTERIOR WALL TYPES	SHEET NO.
						SR 8	COLUMBIA	438609-1-52-01		

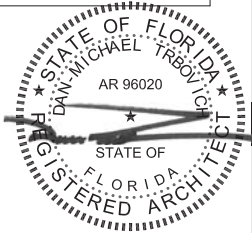


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Interior Wall Type Schedule - Mtl. Framing

TYPE	HEIGHT	INDICATION	DESCRIPTION	RATING	REMARKS
A20	12'-0" HT.		3-5/8" METAL STUDS 16 GA. @16" 5/8" GREEN BOARD (WATER RESISTANT)	NON-RATED	
A21	12'-0" HT.	 <p>WALL TILE UP TO CEILING HT. @ RR'S WET WALL</p>	3-5/8" MTL STUDS 16 GA. @16" WITH ACOUSTICAL INSULATION 5/8" WATER RESISTANT WALL BOARD 1/2" CEMENT BOARD WALL TILE THIN SET	NON-RATED	
A22	12'-0" HT.	 <p>WALL TILE UP TO CEILING HT. @ RR'S WET WALL</p>	5/8" WATER RESISTANT GYPSUM BOARD 6" METAL STUDS 16 GA. @16" WITH ACOUSTICAL INSULATION 5/8" WATER RESISTANT WALL BOARD 1/2" CEMENT BOARD WALL TILE THIN SET (ONE SIDE)	NON-RATED	
A23	6" ABOVE CLNG HEIGHT	 <p>USED AROUND CONC. COL @ BREAKROOM</p>	3-5/8" METAL STUDS 16 GA. @16" 5/8" GREEN BOARD (WATER RESISTANT)	NON-RATED	
A24	6" ABOVE CLNG HEIGHT	 <p>FURRING AROUND CONC. COL @ BREAKROOM</p>	7/8" FURRING HAT CHANNELS 16 GA. @16" 5/8" GREEN BOARD (WATER RESISTANT)	NON-RATED	

NOTE: WALL TYPES FOR EXTERIOR WALLS ARE SHOWN ON THE WALL SECTIONS SHEETS A112 AND A113



PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	INTERIOR WALL TYPES	SHEET NO.
						SR 8	COLUMBIA	438609-1-52-01		



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STANDING SEAM METAL ROOF
AND SELF ADHERING
UNDERLAYMENT OVER RIGID
INSULATION AND METAL DECK.

SLOPED
CONCRETE
ENDWALL WITH
DECORATIVE
LOUVER

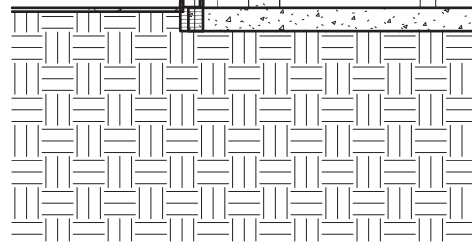
17' - 4"
8x16 TIE BEAM
FOAM-PLASTIC
MOLDING

13' - 11"
STUCCO FINISH ON 8" CMU

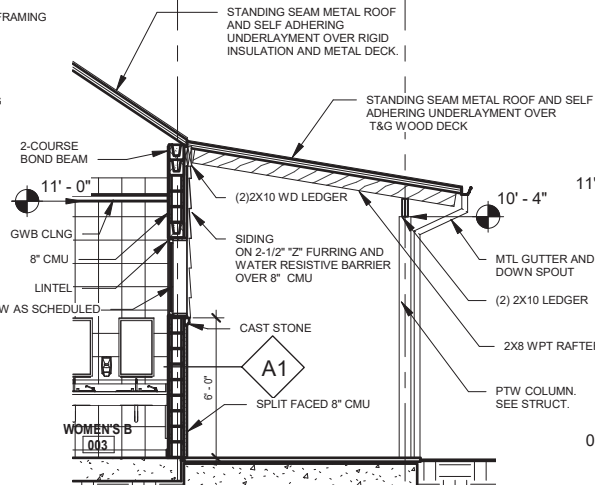
A7

STONE TRIM

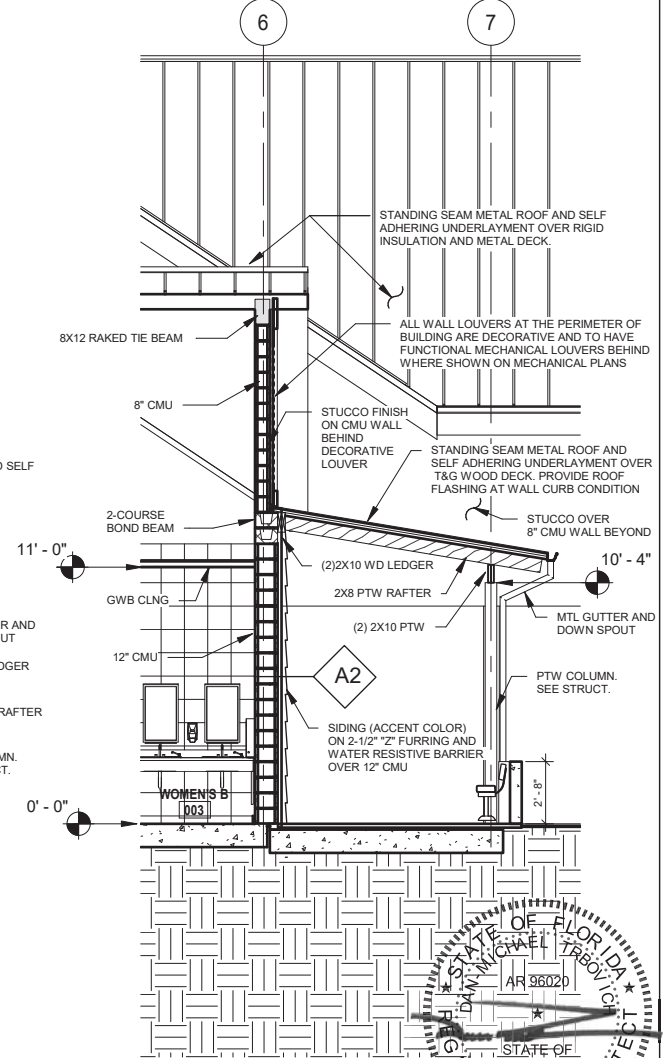
3' - 4"
SPLIT FACED 12" CMU



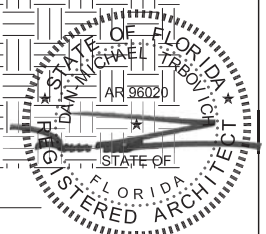
3 Wall Type 7
A112 3/16" = 1'-0"



2 Wall Type 1
A112 3/16" = 1'-0"



1 Wall Type 2
A112 3/16" = 1'-0"

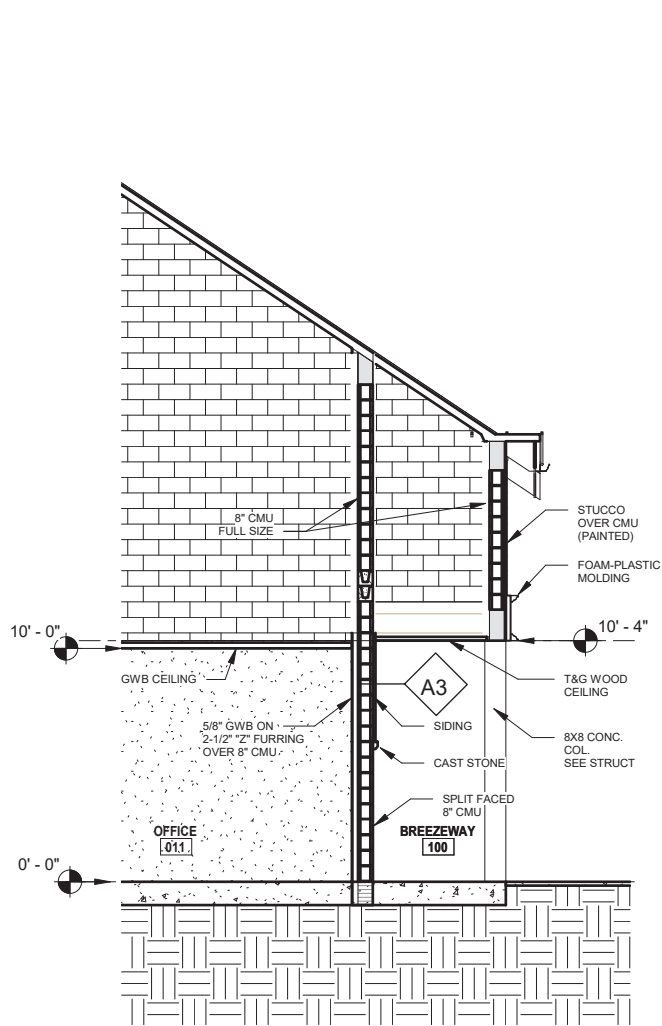


1 PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

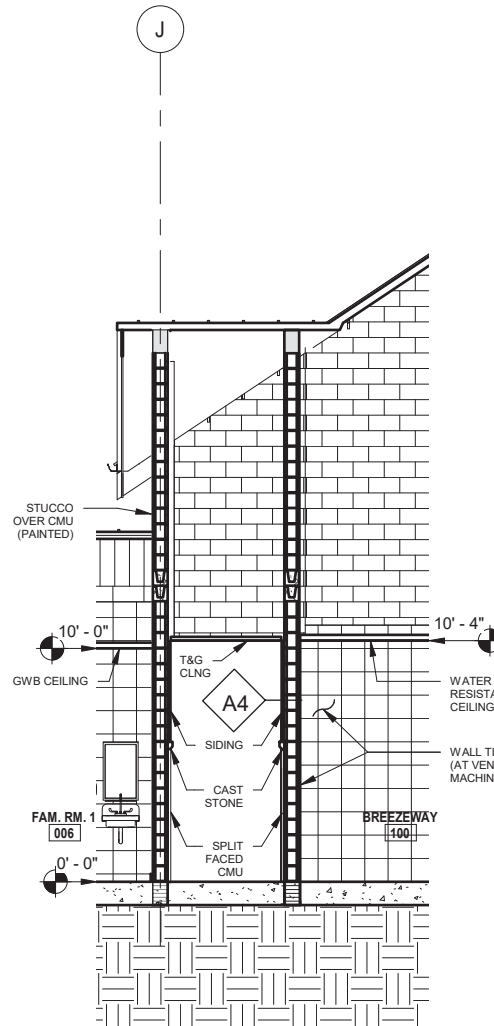
REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	EXTERIOR WALL TYPES		A112
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.

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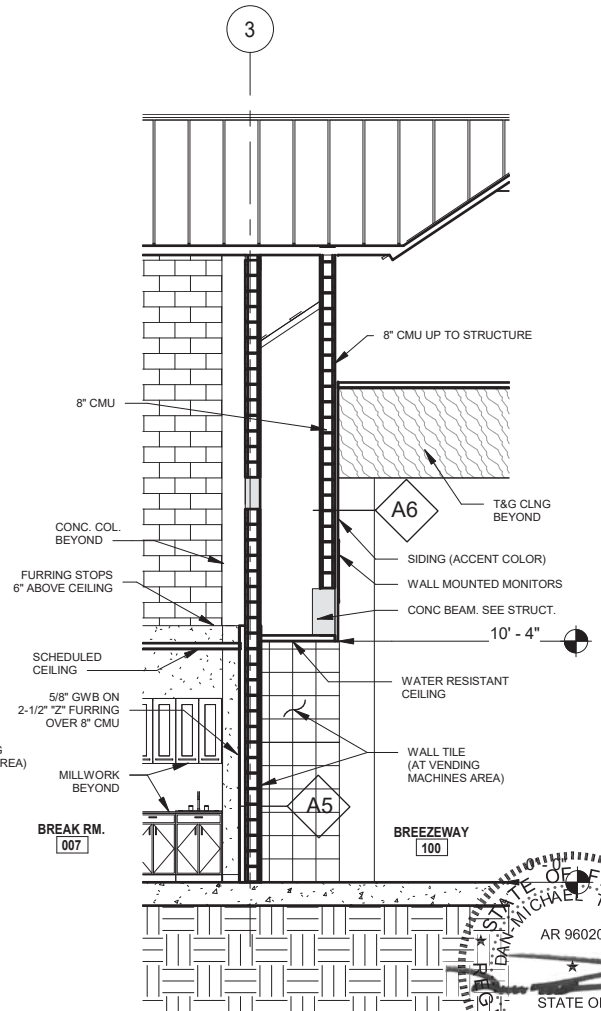
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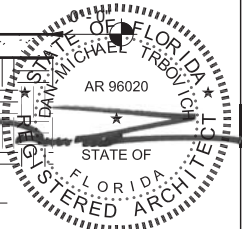
3 Wall Type A3
A113 3/16" = 1'-0"



2 Wall Type A4
A113 3/16" = 1'-0"



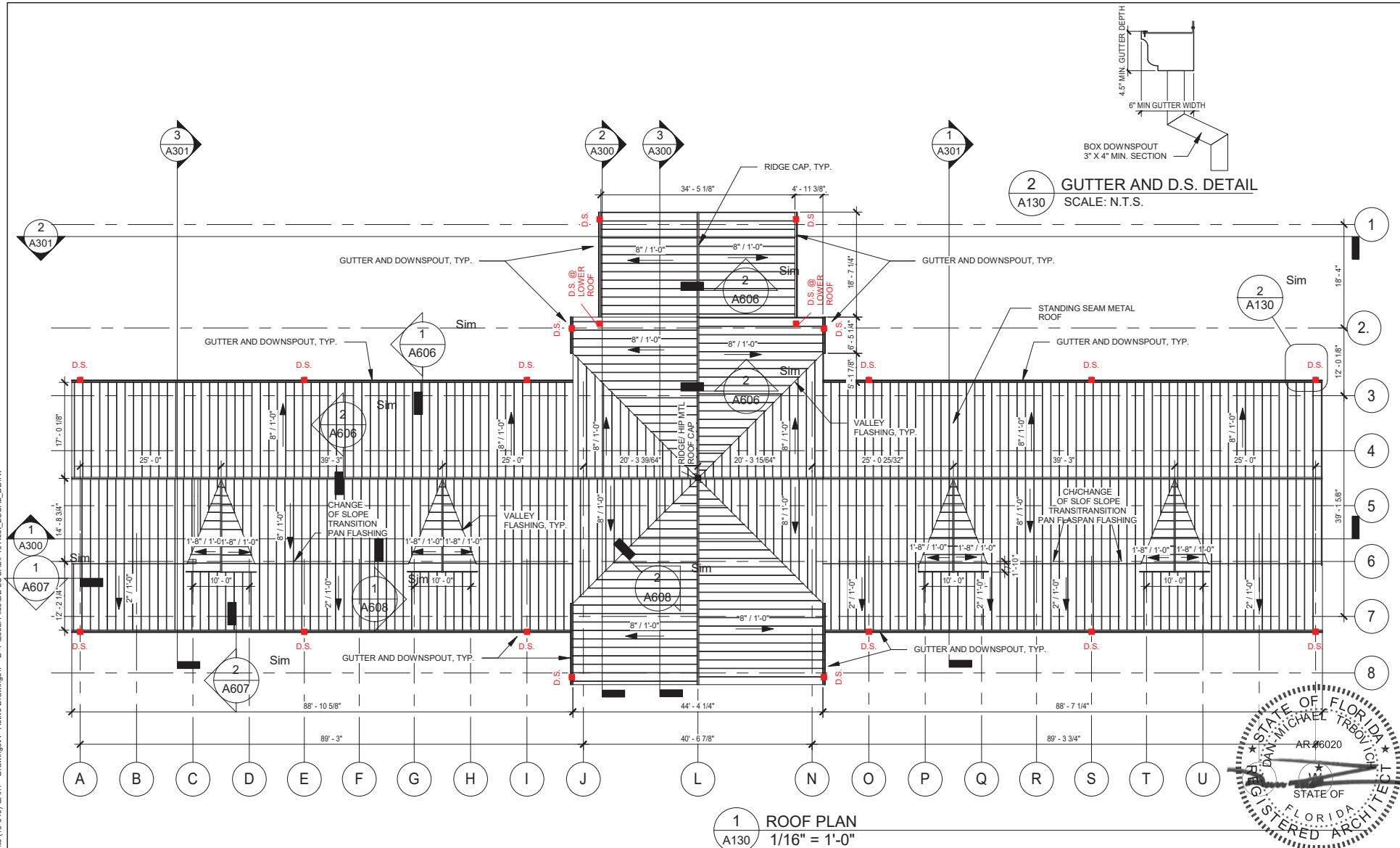
1 Wall Types A5 & A6
A113 3/16" = 1'-0"



REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
						SR 8	COLUMBIA	438609-1-52-01	EXTERIOR WALL TYPES		A113	
											SHEET NO.	

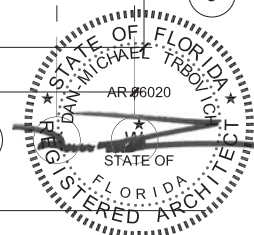


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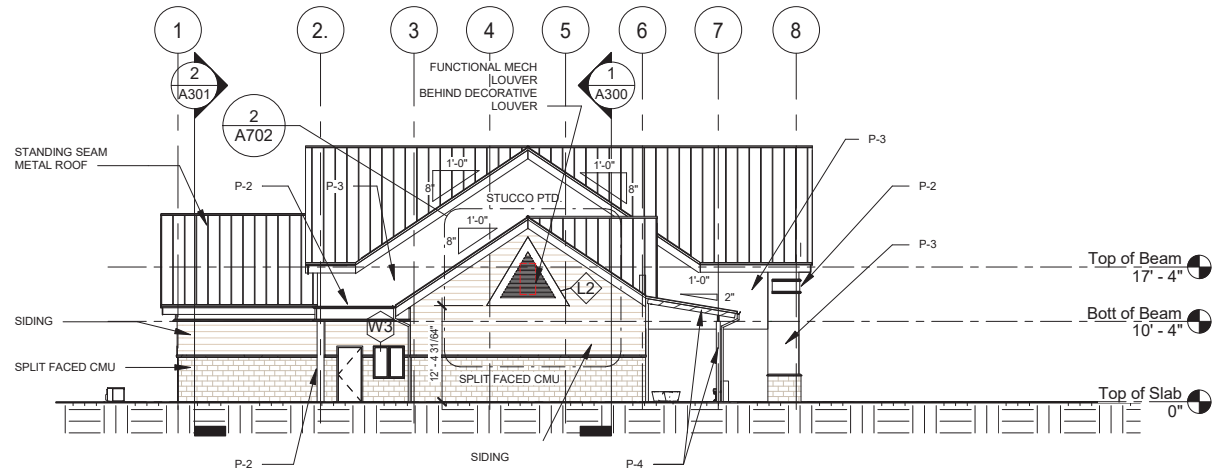


REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	ROOF PLAN		A130
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.

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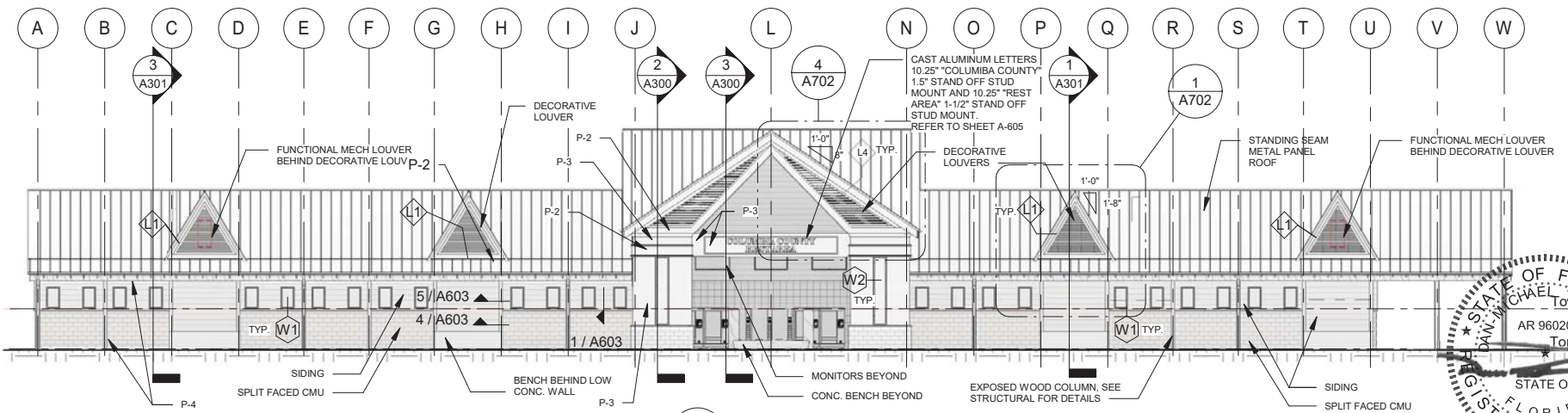


P:\1-10 Rest Area Improvements (19-049) GAI4 - Drawings\A - Active Drawings\1 - B+P\Local Files\DD LOCAL\1-10 Rest_LOCAL_DD.rvt



2 LEFT SIDE ELEVATION
A200 1/16" = 1'-0"

NOTE: ALL WALL LOUVERS AT THE PERIMETER OF THE BUILDING ARE DECORATIVE AND TO HAVE FUNCTIONAL MECHANICAL LOUVER BEHIND WHERE SHOWN ON MECHANICAL PLANS.



1 FRONT ELEVATION
A200 1/16" = 1'-0"

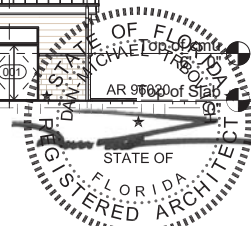
1 PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

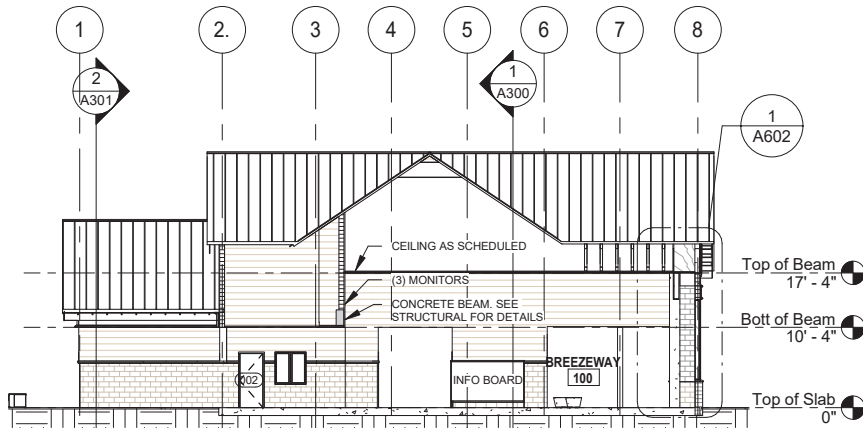


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

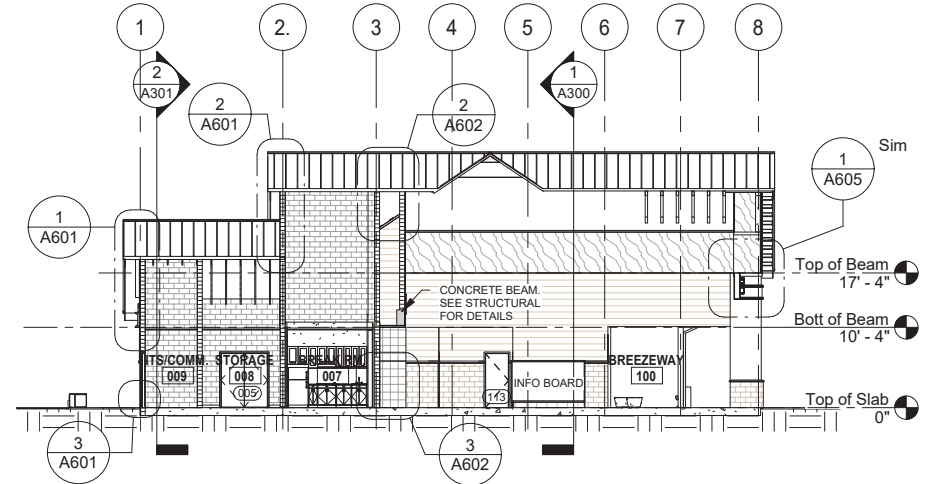
SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO. A200
EXTERIOR ELEVATIONS		SHEET NO.



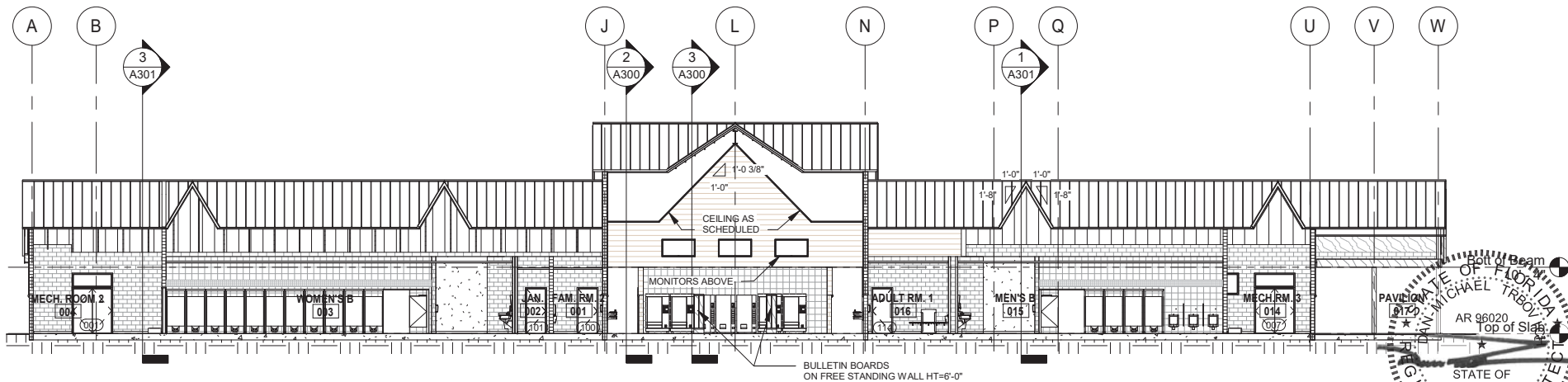
										PROJECT NORTH		100% CONSTRUCTION DOCUMENTS					
REVISIONS						<div> BORRELLI + PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIORS <small>720 Vassar Street, Orlando FL 32804 407.416.1158 • fax 407.416.1542 www.borrellipartners.com</small></div>				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO. A201	
DATE	BY	DESCRIPTION								ROAD NO.		COUNTY	FINANCIAL PROJECT ID		SHEET NO.		
										SR 8		COLUMBIA	438609-1-52-01				
										EXTERIOR ELEVATIONS							



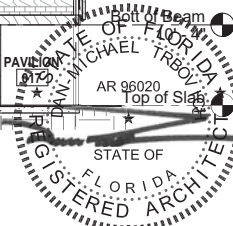
2 CROSS SECTION
A300 1/16" = 1'-0"



3 CORE CROSS SECTION
A300 1/16" = 1'-0"



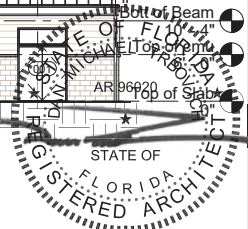
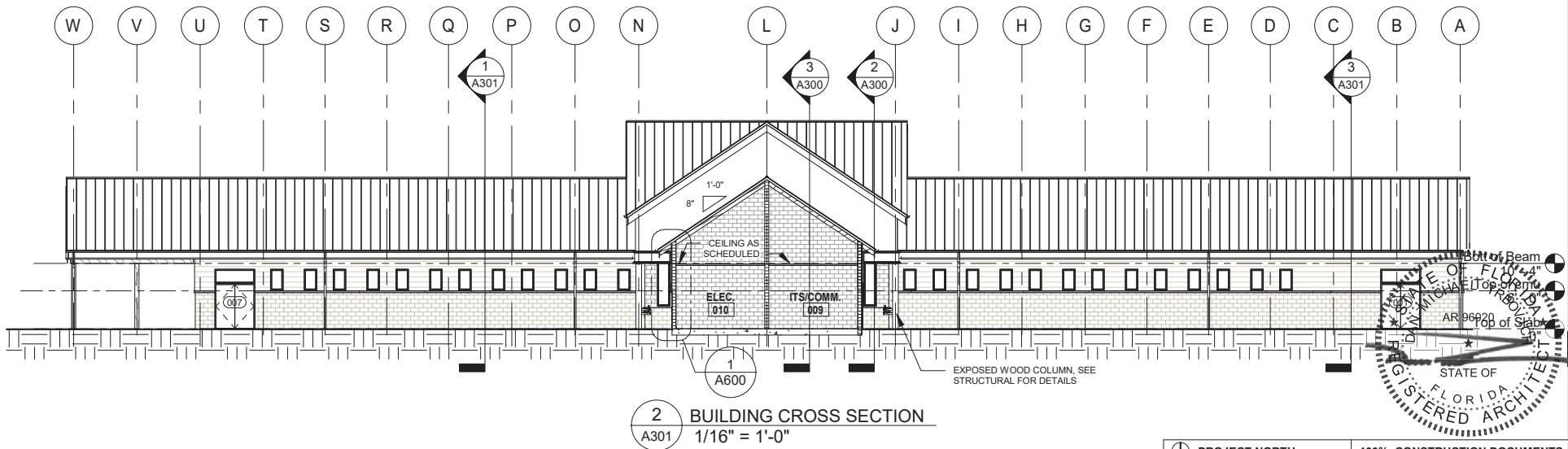
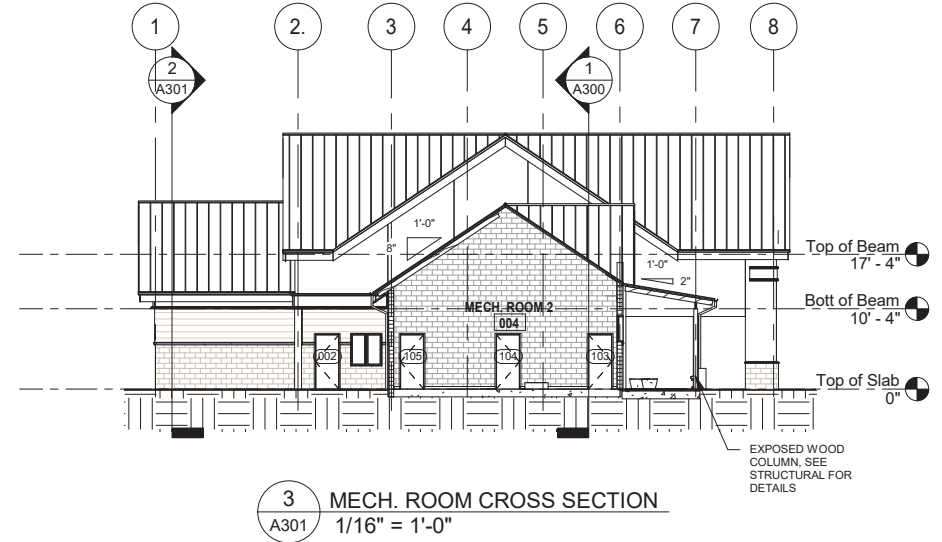
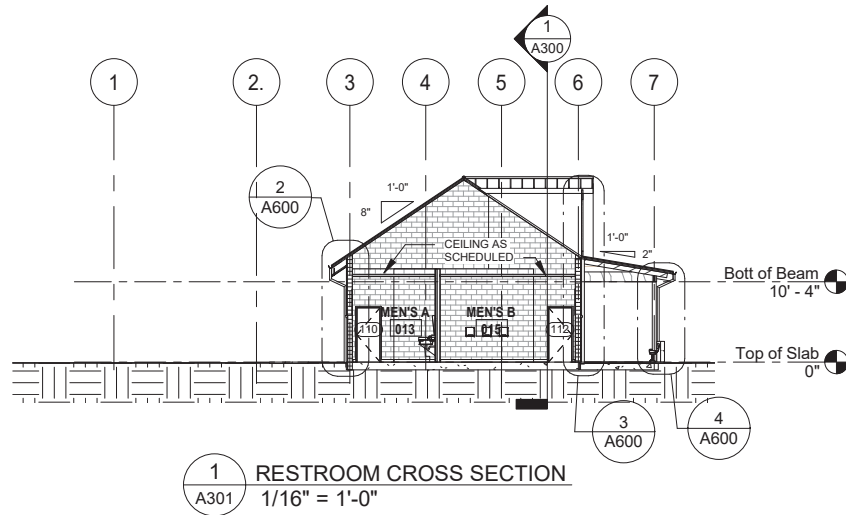
1 LONGITUDINAL SECTION
A300 1/16" = 1'-0"



PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	BUILDING SECTIONS		A300
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.





PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

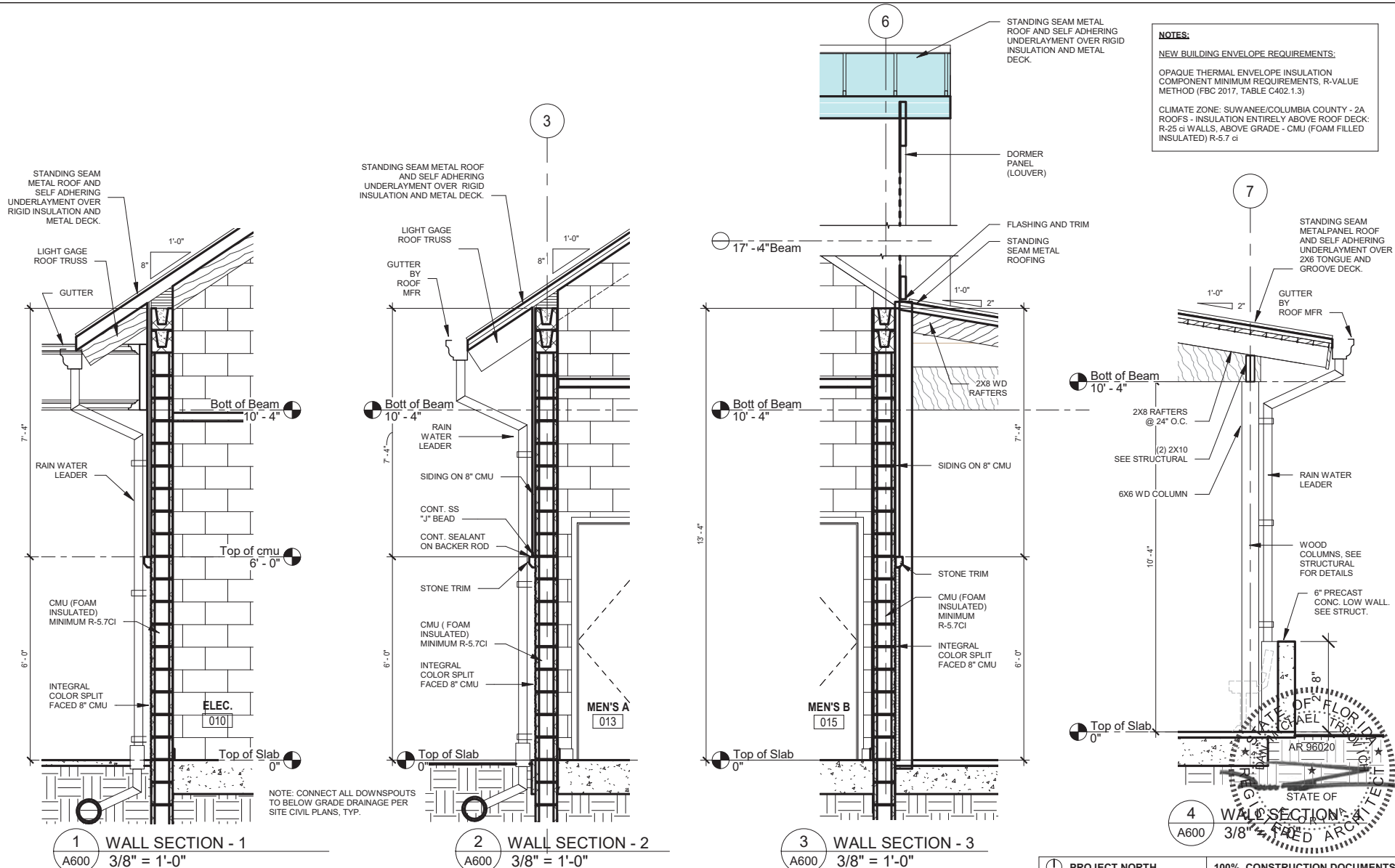
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

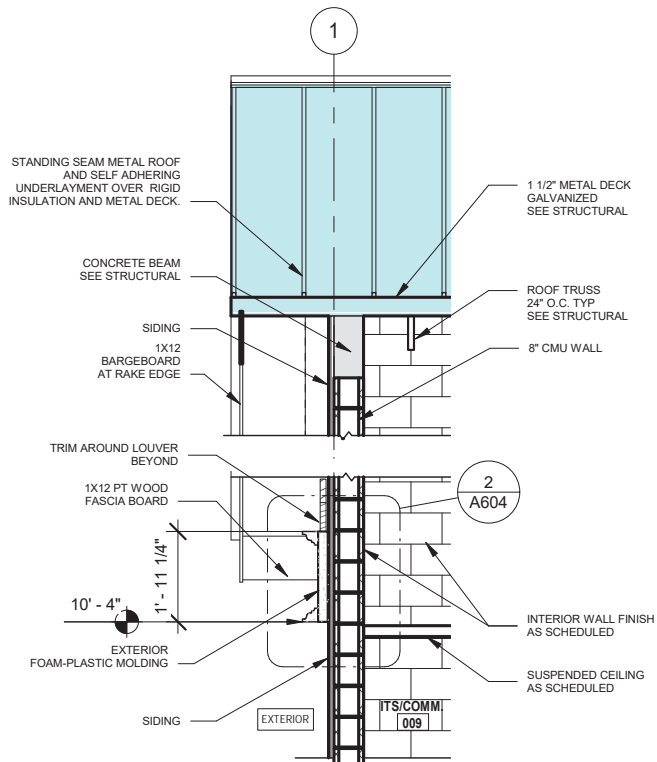
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BUILDING SECTIONS		A301
		SHEET NO.

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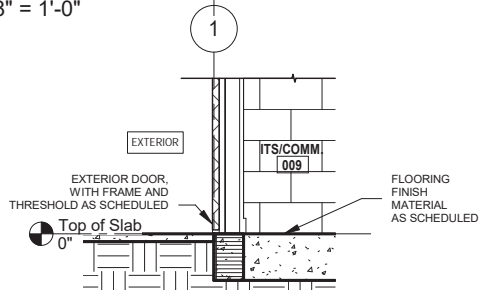


REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	WALL SECTIONS		A600
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.

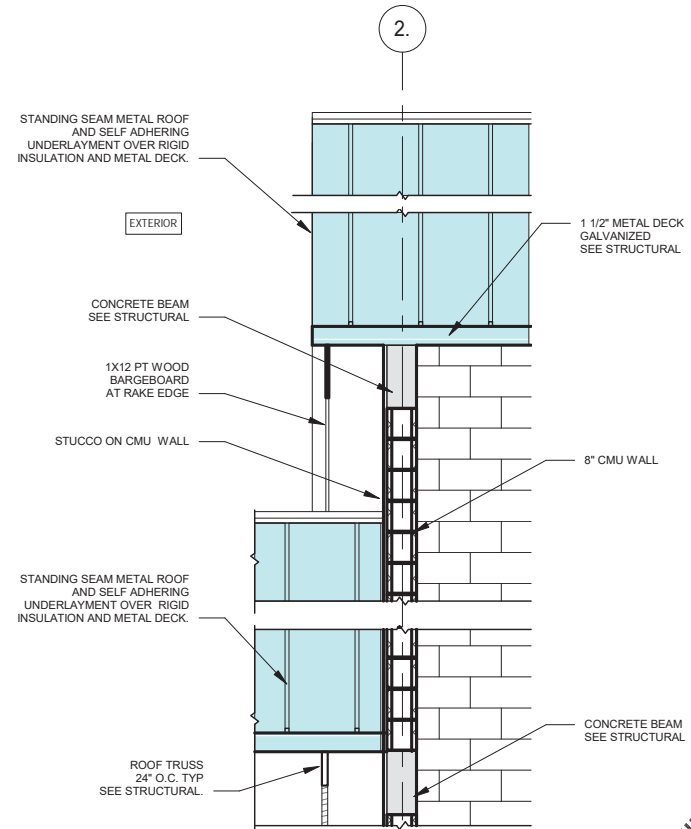
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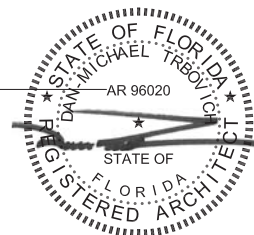
1 WALL SECTION - 5
A601 3/8" = 1'-0"



3 WALL SILL DETAIL - 4
A601 3/8" = 1'-0"



2 WALL SECTION - 6
A601 3/8" = 1'-0"

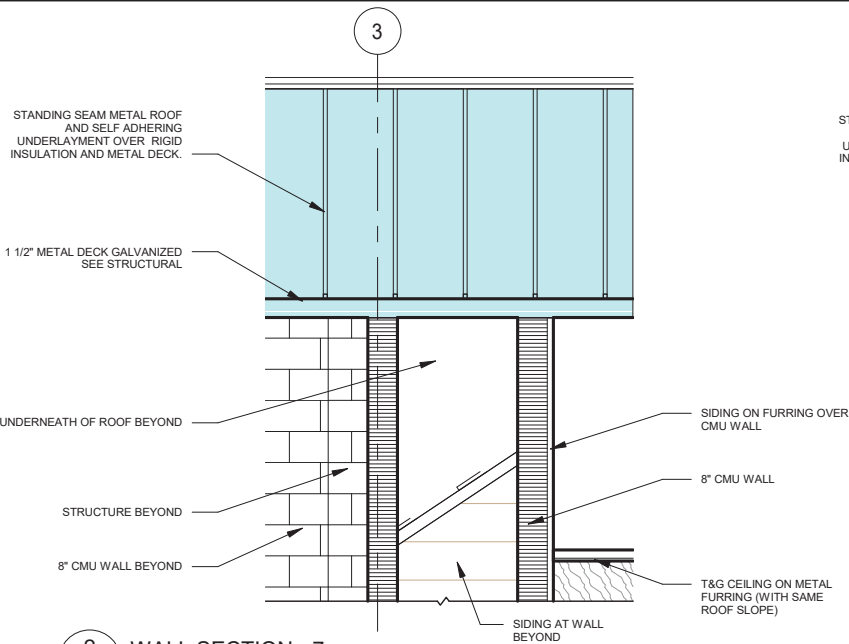


PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

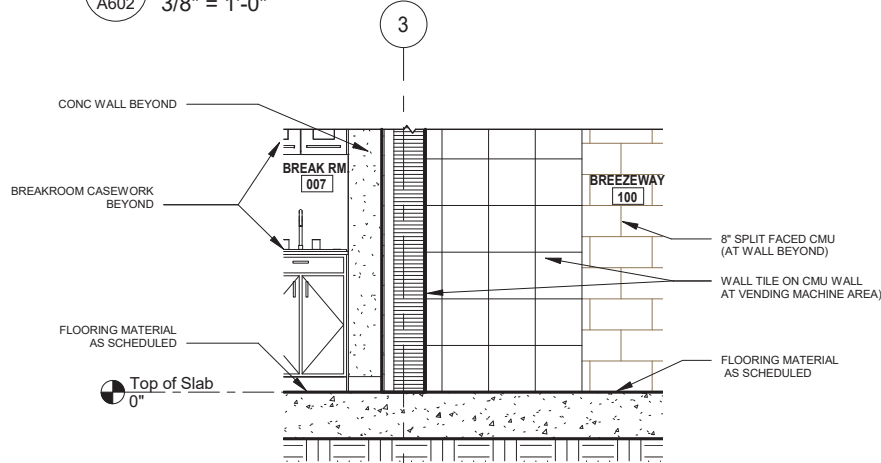
REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	WALL DETAILS	DRAWING NO. A601
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.

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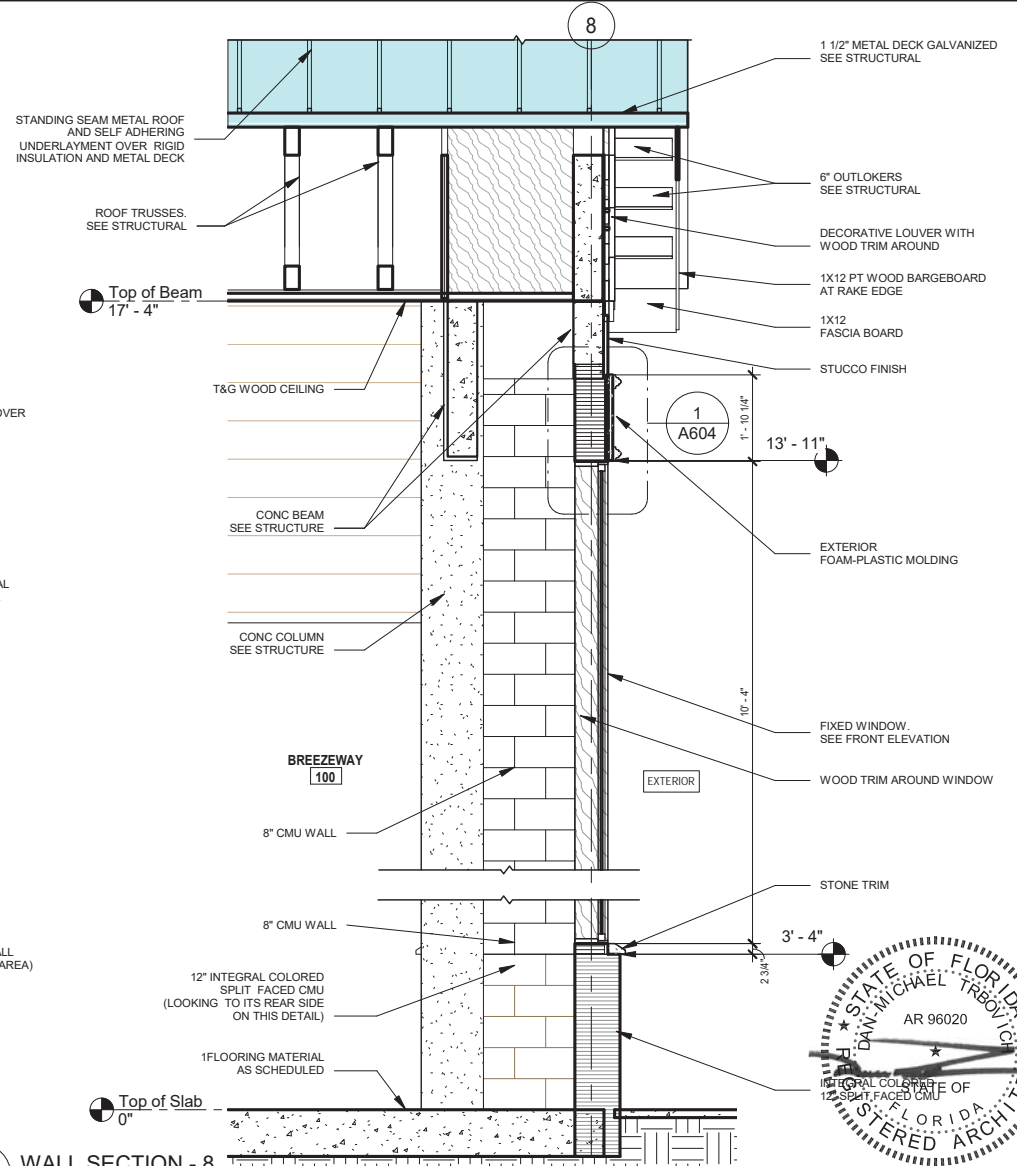
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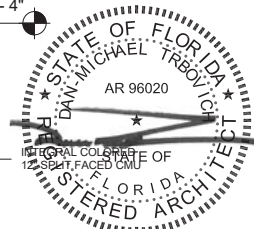
2 WALL SECTION - 7
A602 3/8" = 1'-0"



3 WALL SILL DETAIL - 9
A602 3/8" = 1'-0"



1 WALL SECTION - 8
A602 3/8" = 1'-0"



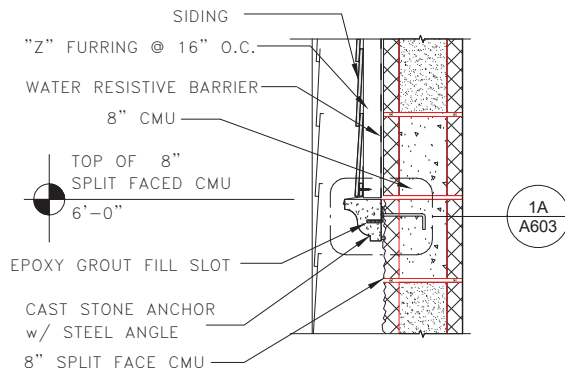
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REVISIONS					
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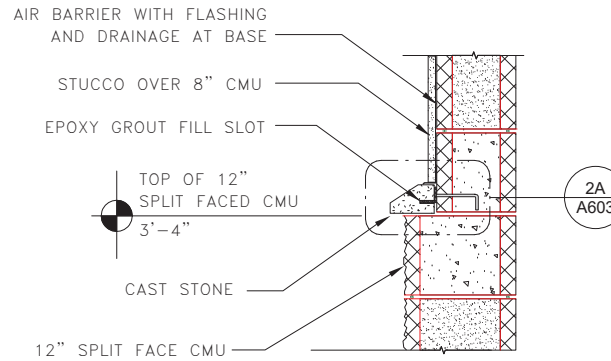


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

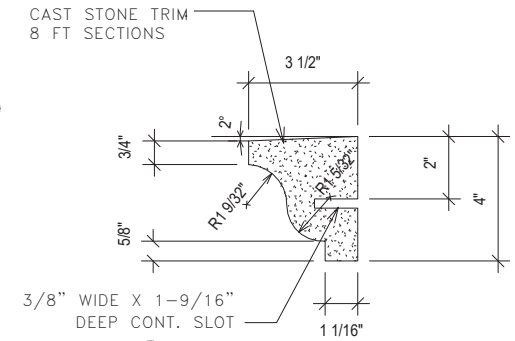
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WALL DETAILS		SHEET NO.



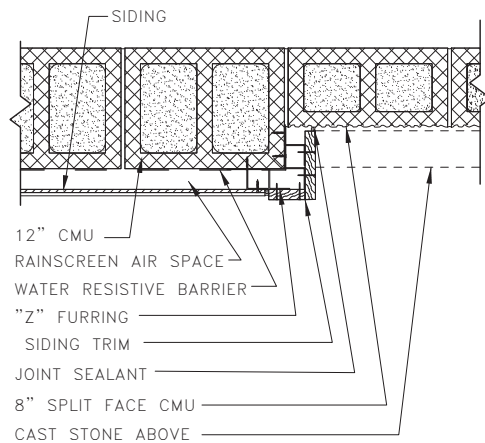
1
A603 **CAST STONE SECTION DETAIL 1**
1" = 1'-0"



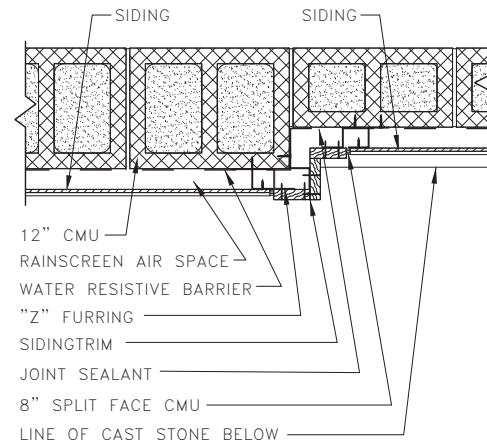
2
A603 **CAST STONE SECTION DETAIL 2**
1" = 1'-0"



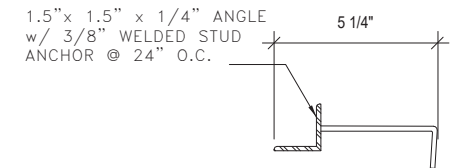
1A
A603 **CAST STONE TYPE 1**
3" = 1'-0"



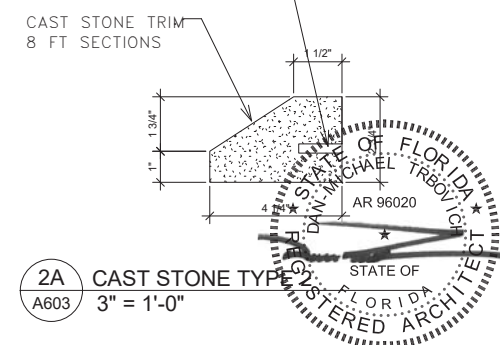
4
A603 **SEATING AREA WALL DETAIL - 1**
1" = 1'-0"



5
A603 **SEATING AREA WALL DETAIL - 2**
1" = 1'-0"



2A
A603 **CAST STONE TYPE 2A**
3" = 1'-0"



2A
A603 **CAST STONE TYPE 2B**
3" = 1'-0"

PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.	A603
DETAILS		SHEET NO.	

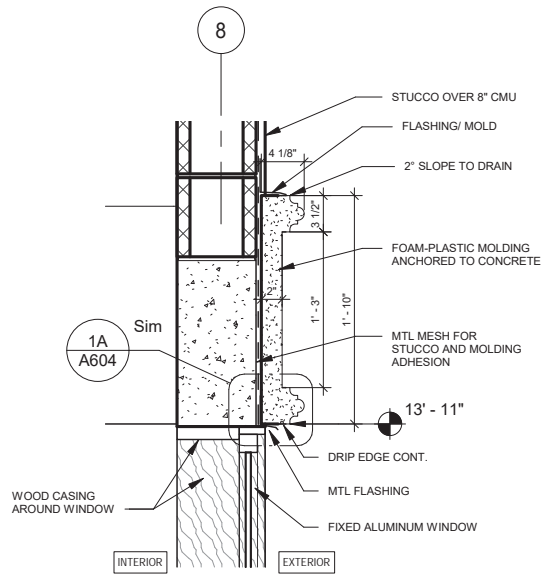
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REVISIONS					
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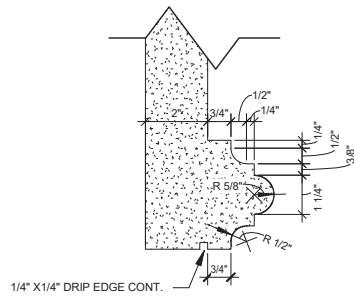


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	A603
ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
SR 8	COLUMBIA	438609-1-52-01	DETAILS	

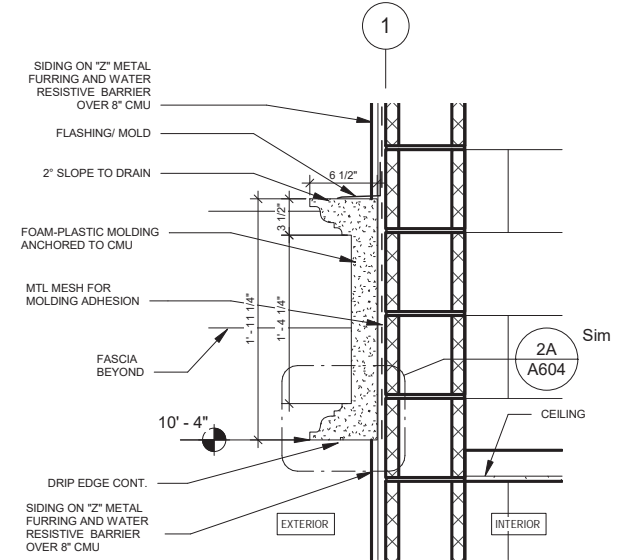
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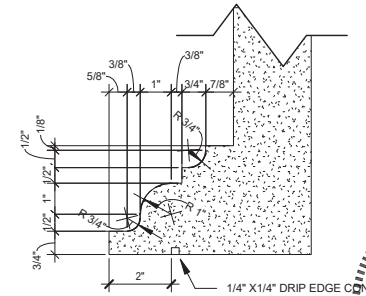
1 Foam Plastic Molding (Front Elev)
A604 1" = 1'-0"



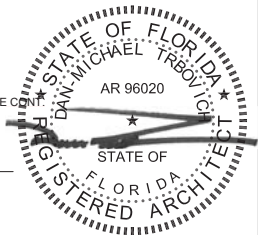
1A Molding Detail 1
A604 3" = 1'-0"



2 Foam Plastic Molding (Rear Elev)
A604 1" = 1'-0"



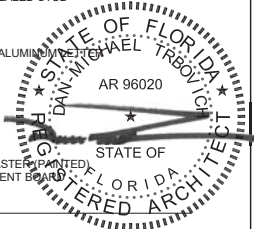
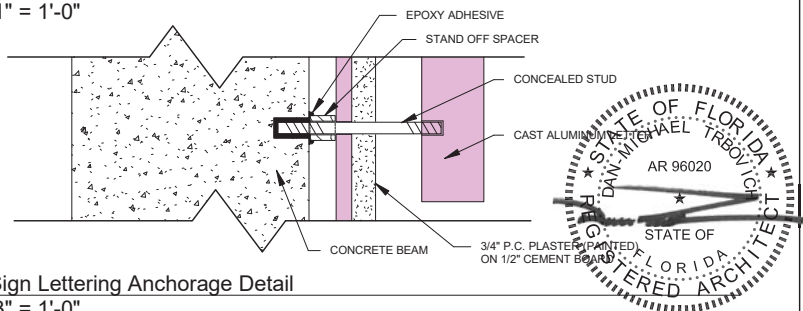
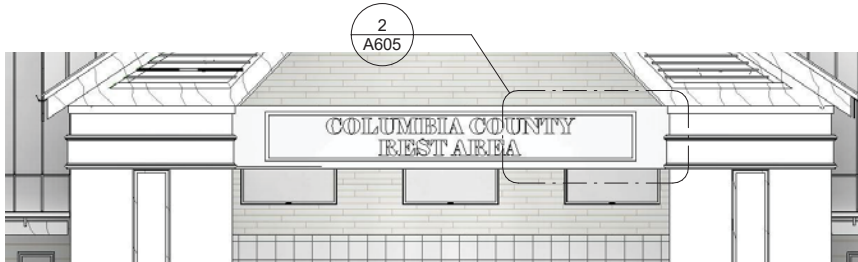
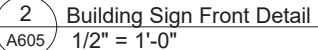
2A Molding Detail 2
A604 3" = 1'-0"



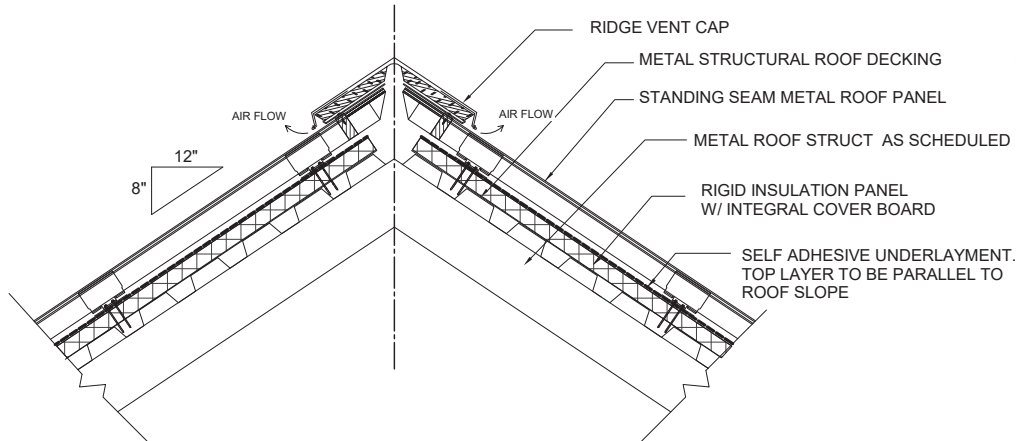
REVISIONS						PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
								A604	
						DETAILS		SHEET NO.	

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

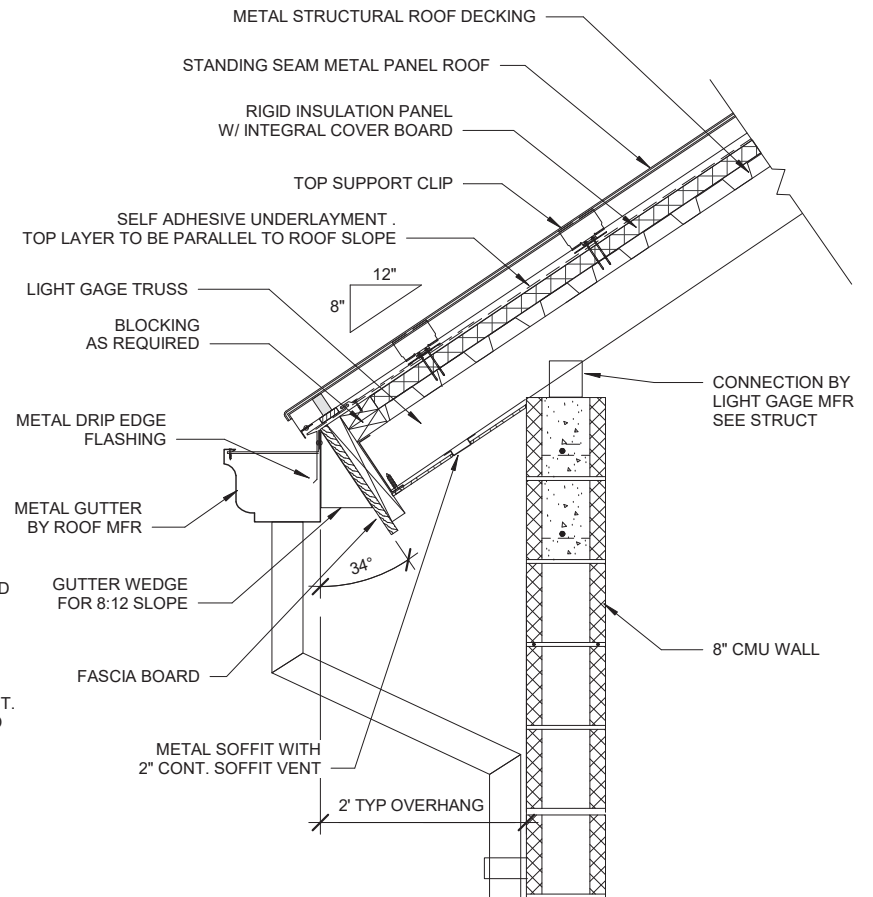
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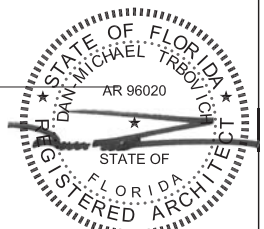
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2
A606
MAIN BLDNG - ROOF RIDGE
DETAIL
1" = 1'-0"

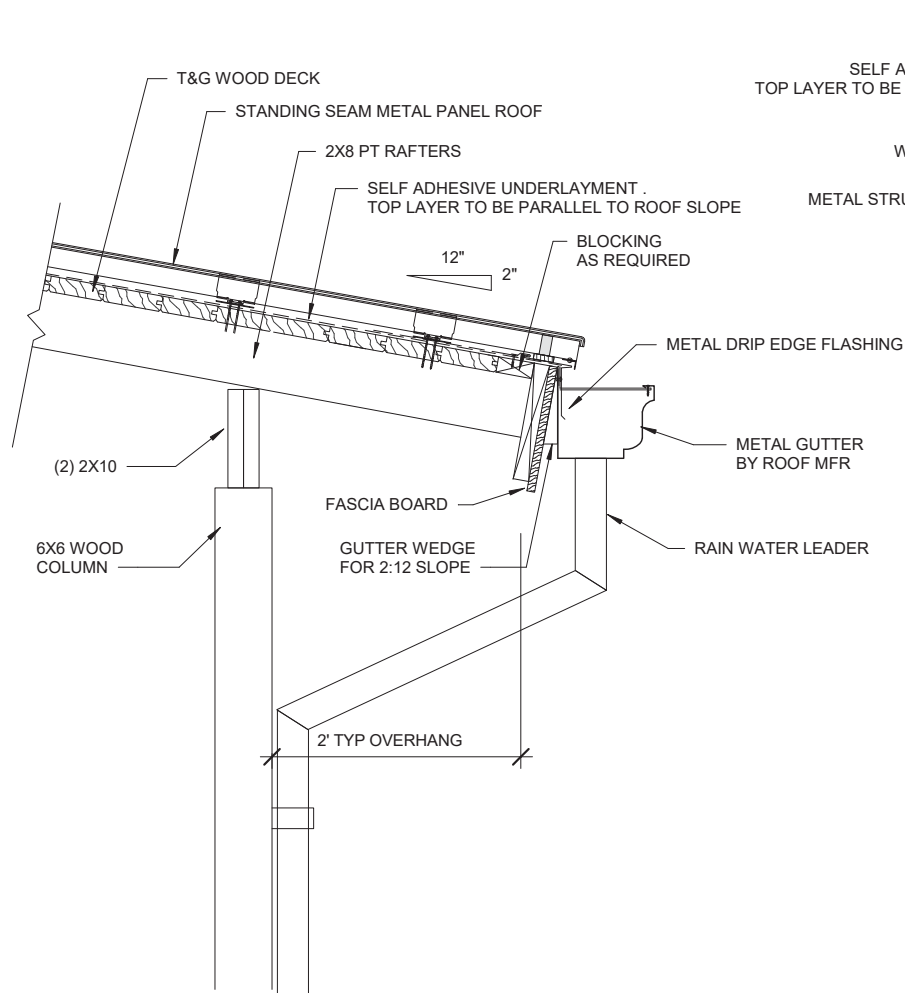


1
A606
MAIN BLDNG - EAVE WITH
GUTTER DETAIL
1" = 1'-0"

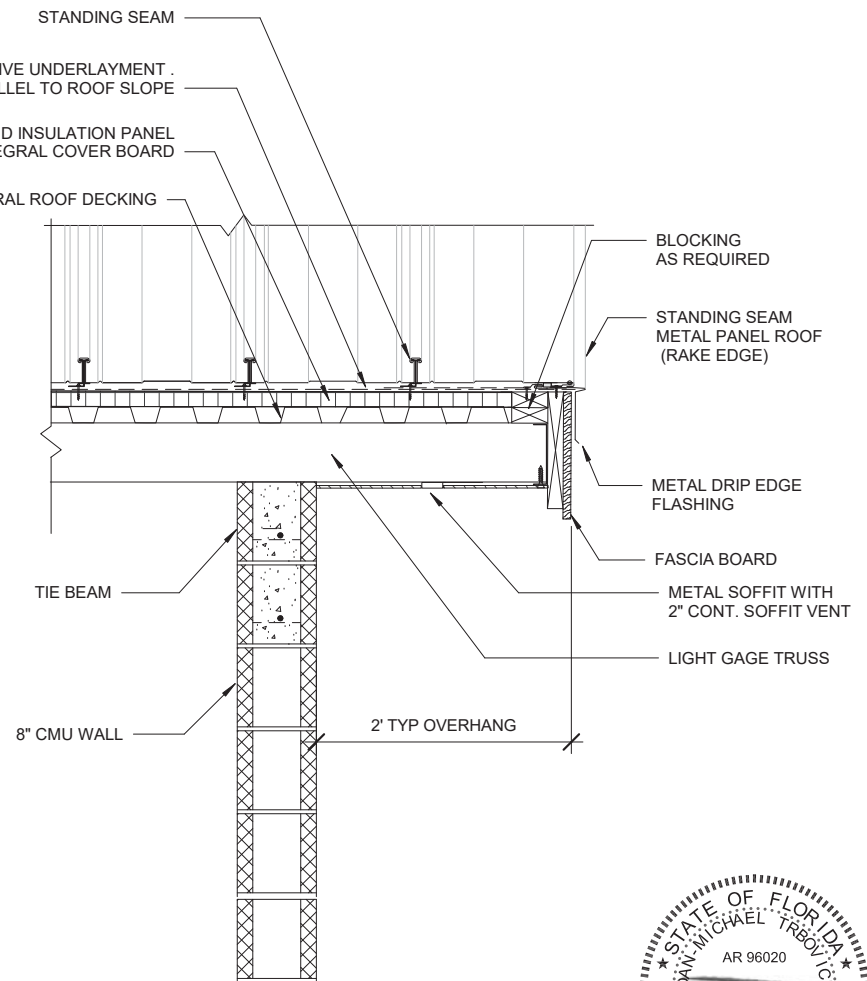


						 PROJECT NORTH		100% CONSTRUCTION DOCUMENTS		
REVISIONS						 BORRELLI + PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIORS 720 Weaver Street, Orlando, FL 32804 407-618-1535 Fax: 407-618-1542 Copyright © 2015 Borrelli + Partners, Inc. All Rights Reserved. No part of this document may be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing from Borrelli + Partners, Inc.		SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			A606		
						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		SHEET NO.
								MAIN BLDNG - ROOF DETAILS		
						ROAD NO.		COUNTY	FINANCIAL PROJECT ID	
						SR 8		COLUMBIA	438609-1-52-01	

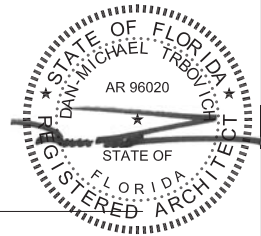
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2
A607
MAIN BLDNG - OPEN AREA
ROOF EAVE DETAIL
1" = 1'-0"



1
A607
MAIN BLDNG - RAKE DETAIL
1" = 1'-0"

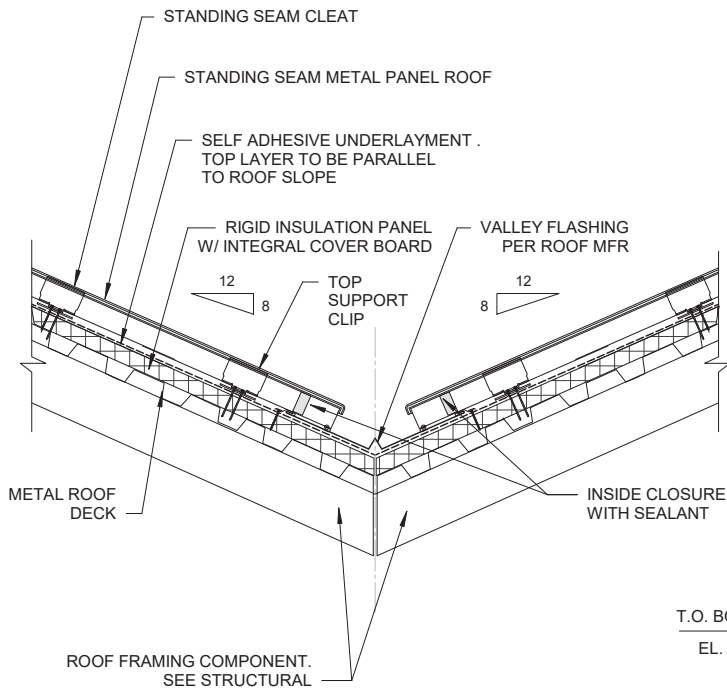


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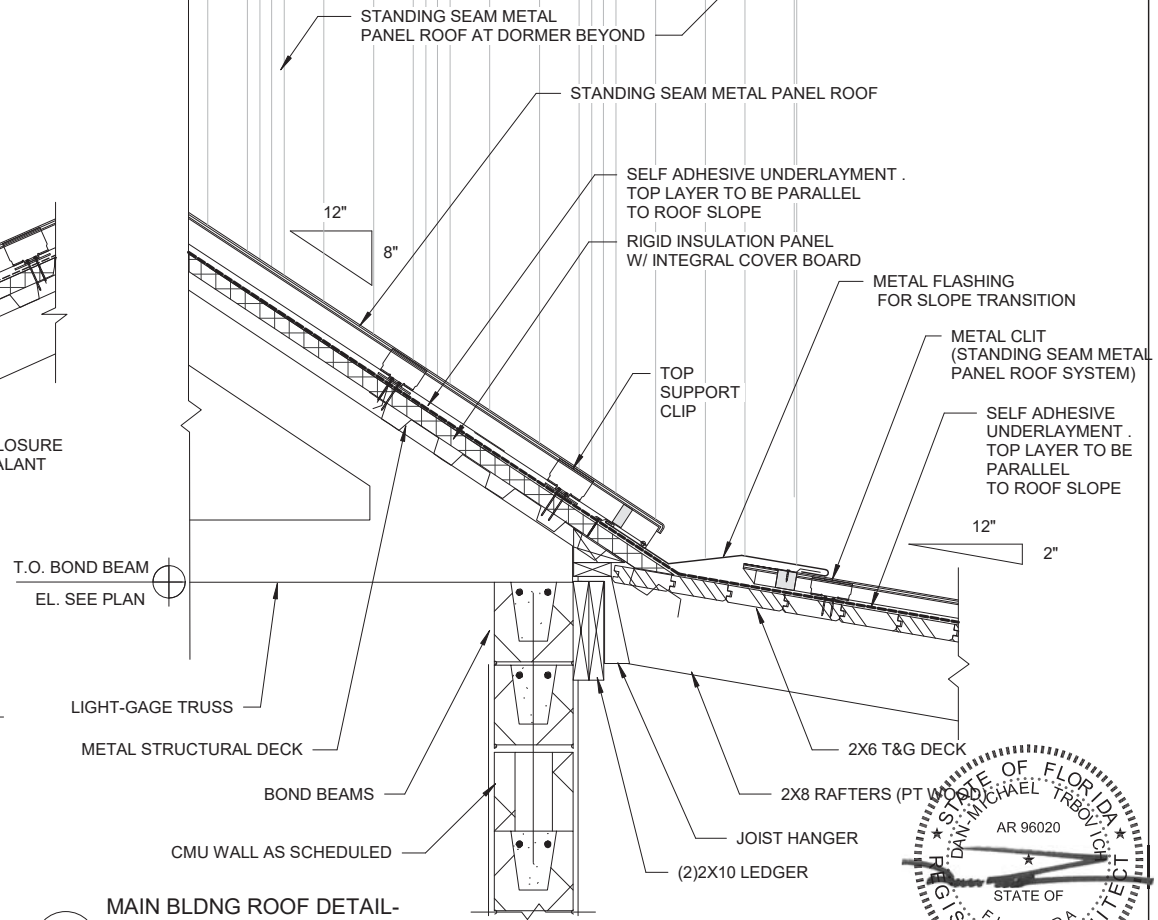


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	DRAWING NO. A607
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	MAIN BLDNG - ROOF DETAILS	SHEET NO.
SR 8	COLUMBIA	438609-1-52-01		

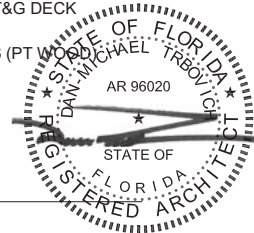
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2
A608
MAIN BLDNG - ROOF VALLEY
DETAIL
1" = 1'-0"



1
A608
MAIN BLDNG ROOF DETAIL-
SLOPES TRANSITION DETAIL
1" = 1'-0"



REVISIONS						PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
								A608	
						MAIN BLDNG - ROOF DETAILS		SHEET NO.	

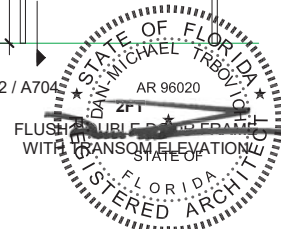
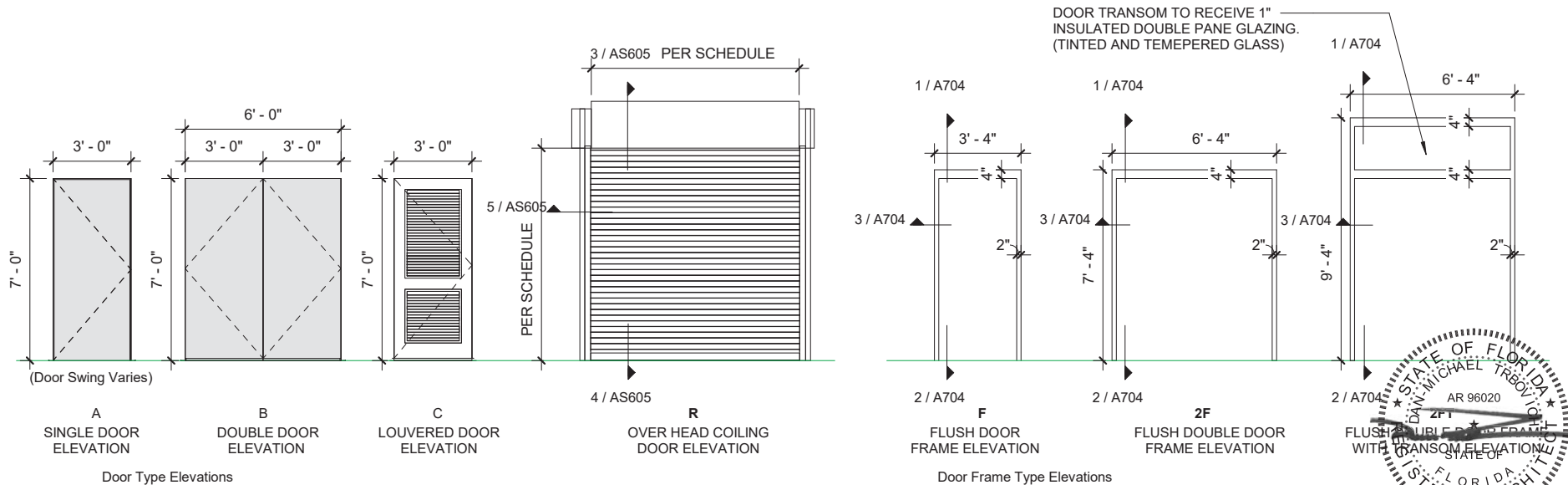
BORRELLI + PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIORS 720 Tamiami Trail, Suite 700, Tampa, FL 33606-4074 Tel: 813.288.1111 Fax: 813.288.1112 www.borrelli.com	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	
	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
	SR 8	COLUMBIA	438609-1-52-01	

Door Schedule

Mark	Location	Rm. No.	Door					Frame			HW Set	Comments
			Type	Width	Height	Thickness	Mat.	Type	Mat.	Fin.		
001	R/RM BLDG.	004	B	6' - 0"	7' - 0"	1 3/4"	H.M.	2FT	H.M.	Metal - Paint Fin 1	1.0	Door with Transom
002	R/RM BLDG.	007	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	5.0	
003	R/RM BLDG.	009	B	6' - 0"	7' - 0"	1 3/4"	H.M.	2F	H.M.	Metal - Paint Fin 1	1.0	
004	R/RM BLDG.	010	B	6' - 0"	7' - 0"	1 3/4"	H.M.	2F	H.M.	Metal - Paint Fin 1	1.0	
005	R/RM BLDG.	008	B	6' - 0"	7' - 0"	1 3/4"	H.M.	2F	H.M.	Metal - Paint Fin 1	1.0	
006	R/RM BLDG.	011	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	5.0	
007	R/RM BLDG.	014	B	6' - 0"	7' - 0"	1 3/4"	H.M.	2FT	H.M.	Metal - Paint Fin 1	1.0	Door with Transom
100	R/RM BLDG.	001	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	3.0	
101	R/RM BLDG.	002	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	2.0	
102	R/RM BLDG.	003	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	6.0	
103	R/RM BLDG.	003	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	7.0	Post Sign: "Authorized Personnel Only. Not an Exit."
104	R/RM BLDG.	CHASE	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	7.0	
105	R/RM BLDG.	005	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	7.0	Post Sign: "Authorized Personnel Only. Not an Exit."
106	R/RM BLDG.	005	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	6.0	
107	R/RM BLDG.	005	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	4.0	
108	R/RM BLDG.	012	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	4.0	
109	R/RM BLDG.	013	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	6.0	
110	R/RM BLDG.	013	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	7.0	Post Sign: "Authorized Personnel Only. Not an Exit."
111	R/RM BLDG.	CHASE	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	7.0	
112	R/RM BLDG.	015	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	7.0	Post Sign: "Authorized Personnel Only. Not an Exit."
113	R/RM BLDG.	015	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	6.0	
114	R/RM BLDG.	016	A	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	3.0	
115	STO. BLDG.	S01	R	8' - 0"	8' - 0"	0"	STEEL	R	STEEL	Finishes - OHD - Gray	8.0	
116	STO. BLDG.	S01	C	3' - 0"	7' - 0"	1 3/4"	H.M.	F	H.M.	Metal - Paint Fin 1	2.0	

NOTES:

SEE SPECS
SECTION 08 71 00
FOR HDWR SETS SCHEDULE.



PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	DOOR SCHEDULE		A700
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.



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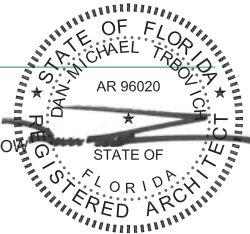
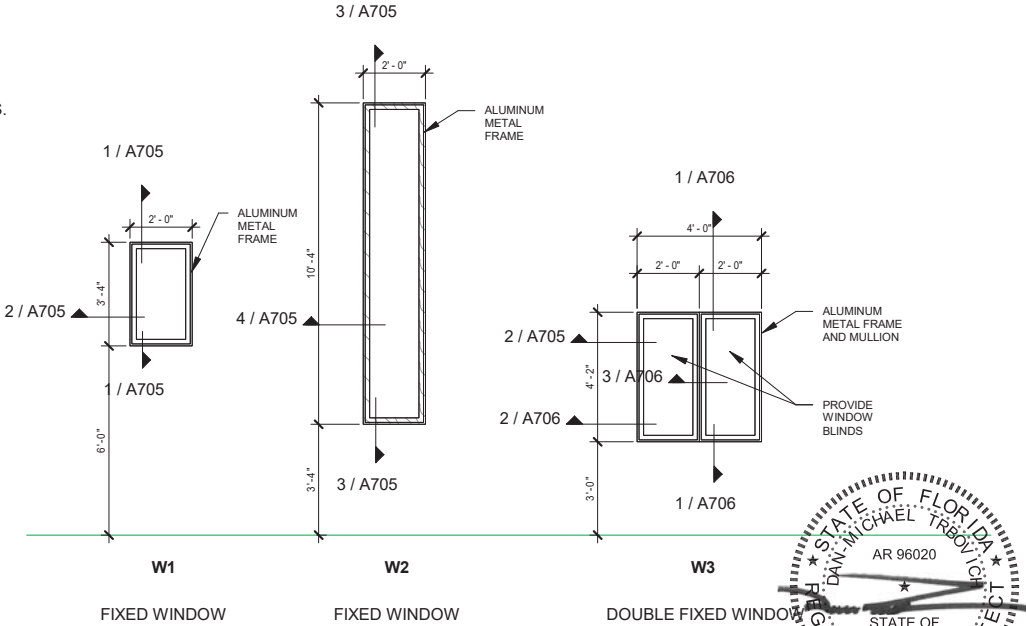
Window Schedule						
Mark	Count	Type	Height	Width	Sill Height	Comments
W1	59	24" x 40"	3' - 4"	2' - 0"	6' - 1"	
W2	2	24" x 124"	10' - 4"	2' - 0"	3' - 6 3/4"	
W3	2	48" x 50"	4' - 2"	2' - 0"	3' - 0"	Provide horizontal window blinds

GLAZING NOTES:

ALL EXTERIOR GLAZING SHALL BE INSULATED DOUBLE-PANE (CENTERED GLAZED SYSTEM)
THE 1" THICK GLAZING SYSTEM COMPONENTS ARE:
- OUTER PANE: 1/4" TINTED, TEMEPERED GLASS
- 1/2" AIR SPACE
- INNER PANE 1/4" CLEAR, TEMPERED GLASS

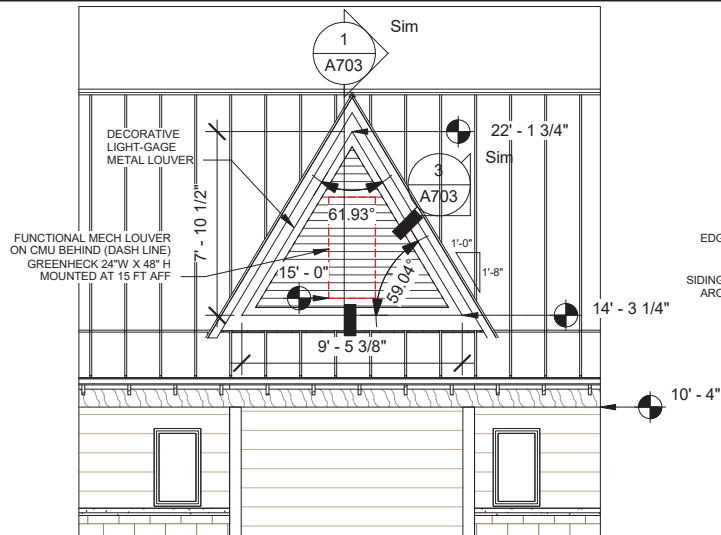
WINDOW FINISHES NOTE:

POWDER COATED FINISH IN RED COLOR IS ASSIGNED FOR COLUMBIA COUNTY REST AREA WINDOWS.
THE SPECIFIC COLOR T.B.D. BY THE ARCHITECT FROM THE MFR. COLOR CHART.
REFER TO COLOR BOARD DOCUMENT PROVIDED WITH 100% CDs SUBMITTAL.



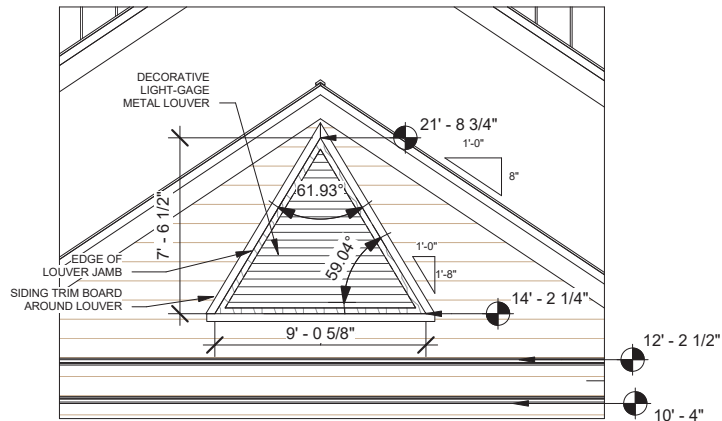
PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	DRAWING NO. A701
ROAD NO. SR 8	COUNTY COLUMBIA	FINANCIAL PROJECT ID 438609-1-52-01	WINDOW SCHEDULE	SHEET NO.



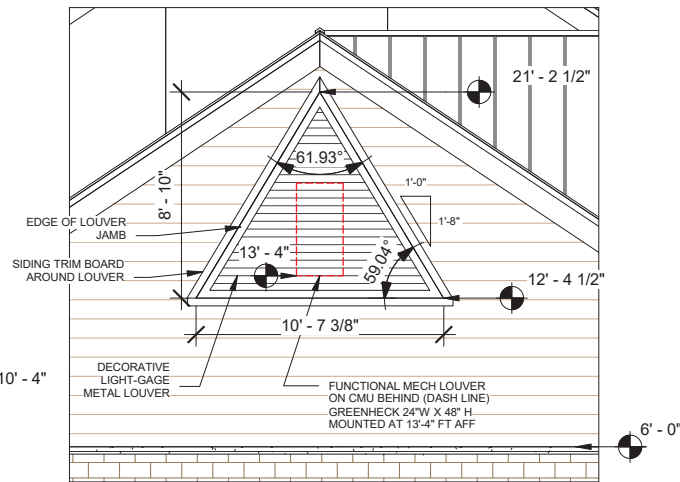
1 Louver L1 Detail
A702 3/16" = 1'-0"

NOTE: TOTAL OF 4 TYPE L1 DECORATIVE LOUVERS:
2 OF THEM HAVE FUNCTIONAL MECH LOUVERS ON CMU
WALL BEHIND.
COORDINATE WITH MECH SIZE AND MOUNTING HEIGHT
OF THE FUNCTIONAL LOUVERS.

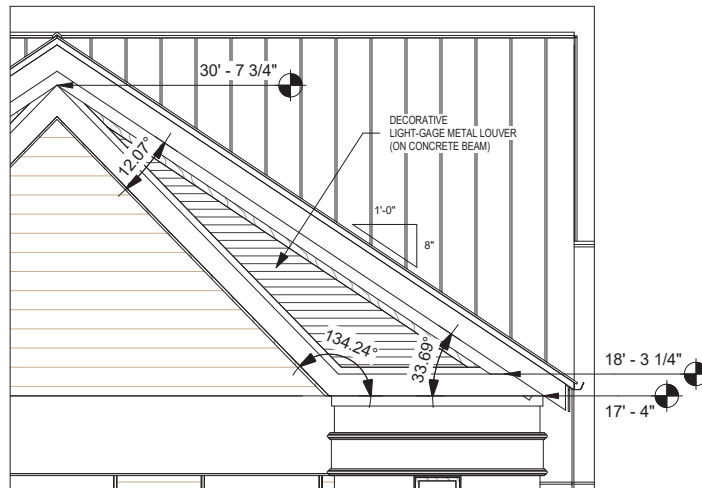


3 Decorative Louver L3 Detail
A702 3/16" = 1'-0"

NOTE: TOTAL OF 1 TYPE L3 LOUVER



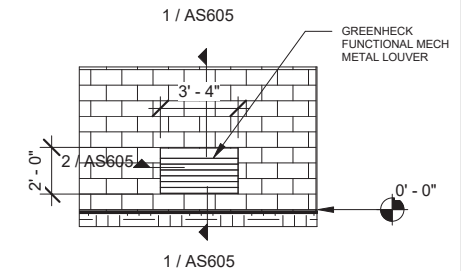
2 Louver L2 Detail
A702 3/16" = 1'-0" NOTE: TOTAL OF 2 TYPE L2 LOUVERS



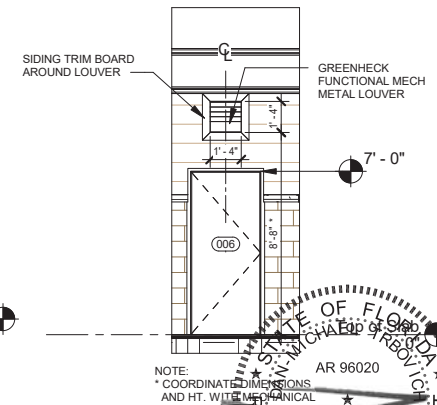
4 Decorative Louver L4 Detail
A702 3/16" = 1'-0"

NOTE: TOTAL OF 2 (MIRRORED) TYPE L4 LOUVERS

NOTE: ALL TRIANGULAR LOUVERS AT THE PERIMETER OF BUILDING
ARE DECORATIVE AND TO HAVE FUNCTIONAL MECHANICAL
LOUVERS BEHIND WHERE SHOWN ON MECHANICAL PLANS.

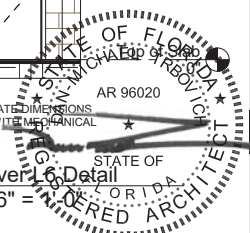


5 Louver L5 Detail
A702 3/16" = 1'-0" NOTE: TOTAL OF (4) TYPE L5 LOUVERS



6 Louver L6 Detail
A702 3/16" = 1'-0"

NOTE: * COORDINATED DIMENSIONS
AND HT. WITH MECHANICAL



PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO. A702	
LOUVER ELEVATIONS		SHEET NO.	

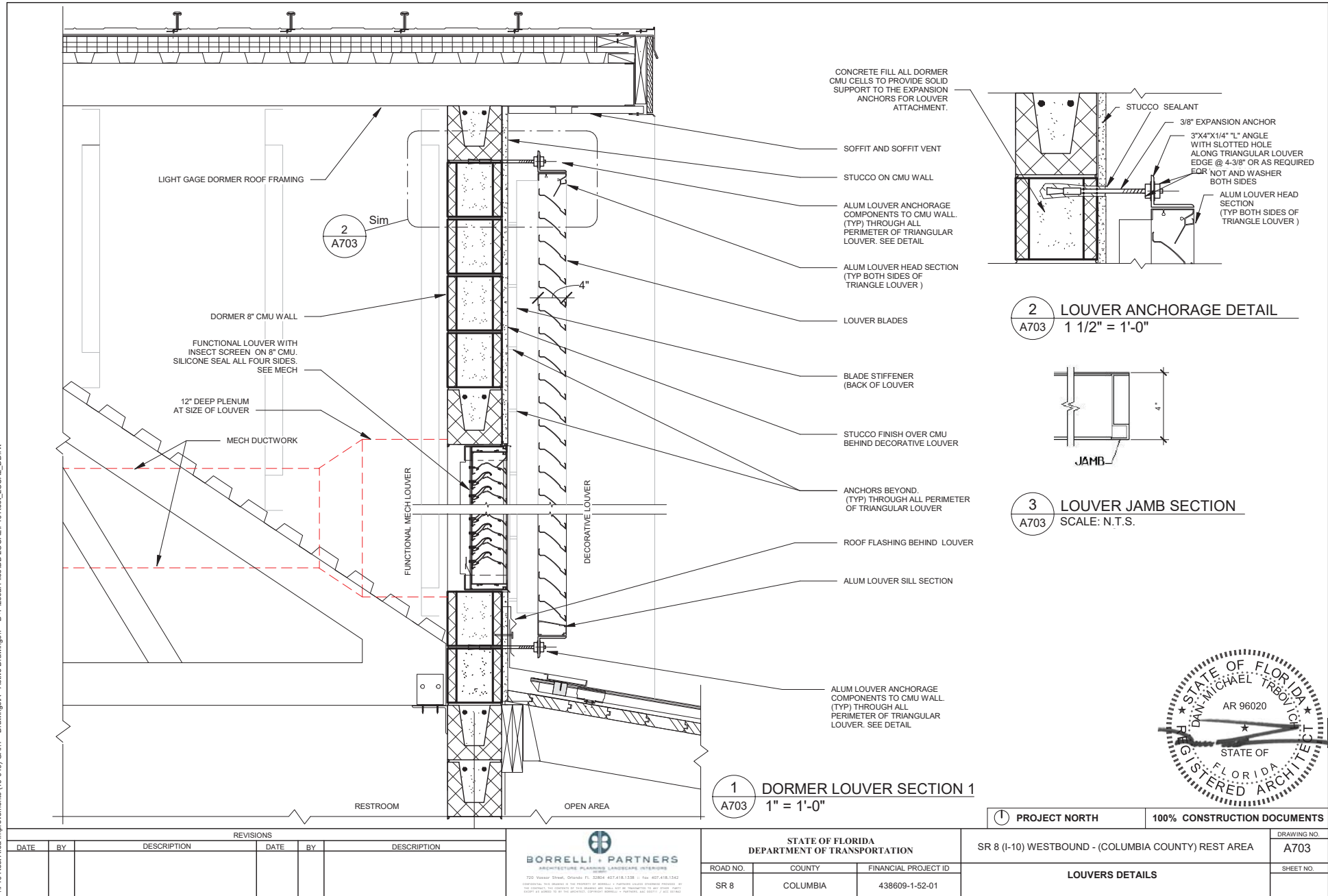
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



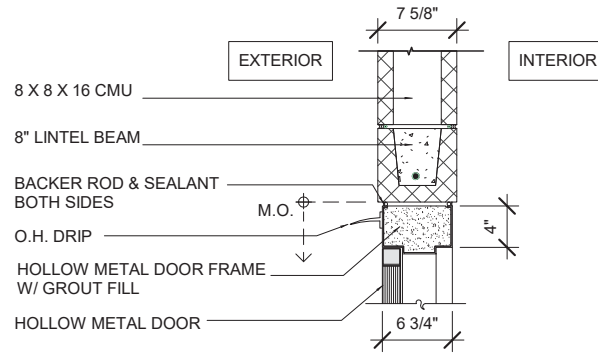
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

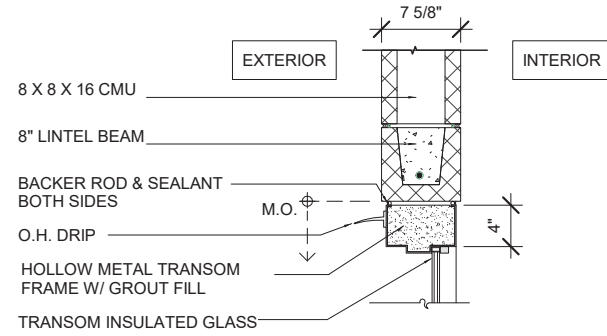
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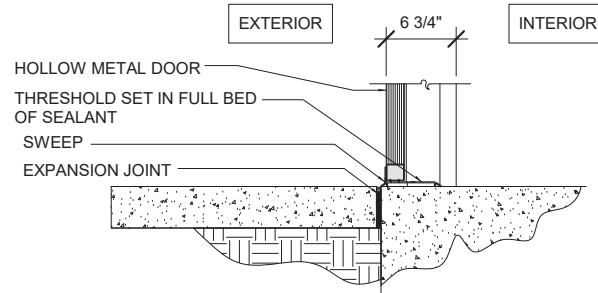
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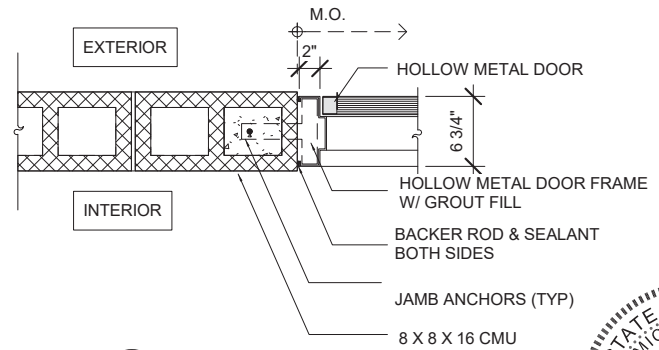
1 Door Detail (Head)
A704 1" = 1'-0"



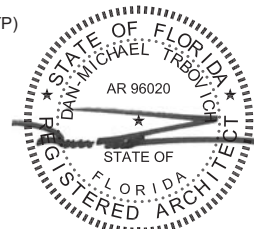
1A Door Detail (Head) at Door
A704 Transom 1" = 1'-0"



2 Door Detail (Sill)
A704 1" = 1'-0"



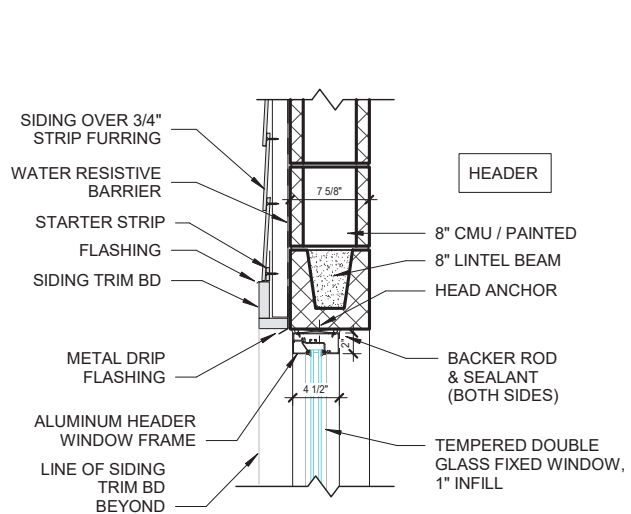
3 Door Detail (Jamb)
A704 1" = 1'-0"



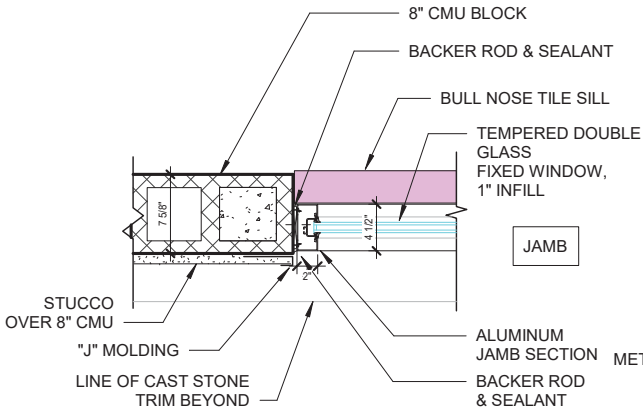
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO. A704	
						SR 8	COLUMBIA	438609-1-52-01	DOOR DETAILS		SHEET NO.	



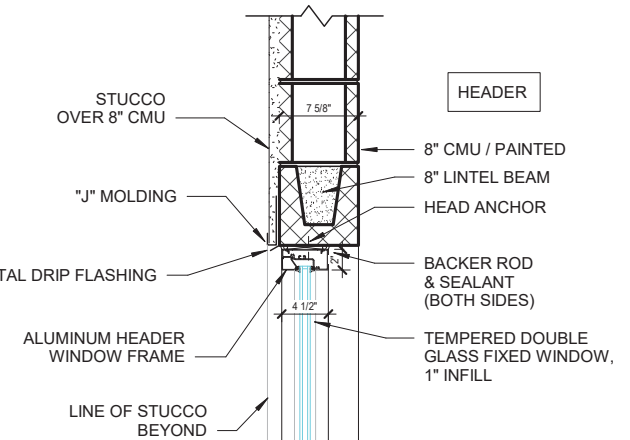
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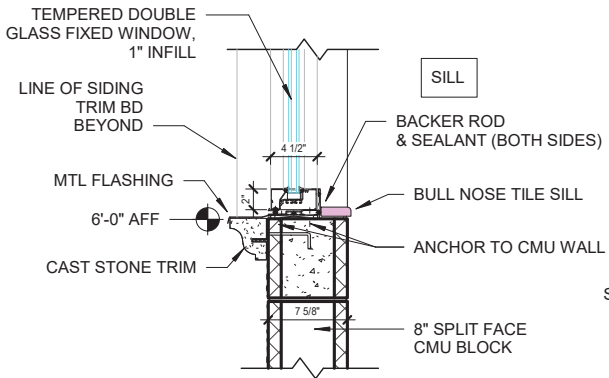
1 Window Detail (W1) - Head and Sill
1" = 1'-0"



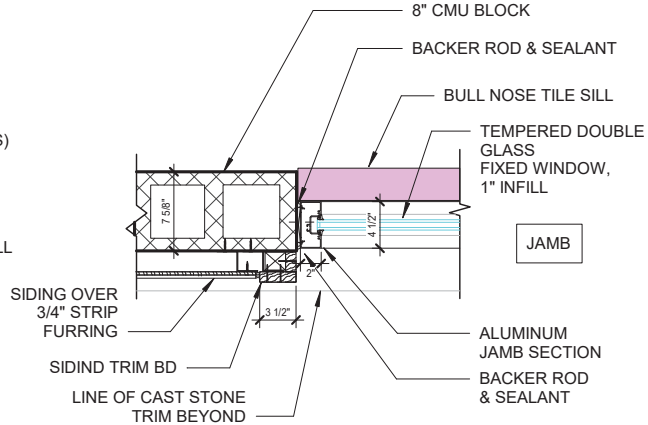
4 Window Detail (W2) - Jamb
1" = 1'-0"



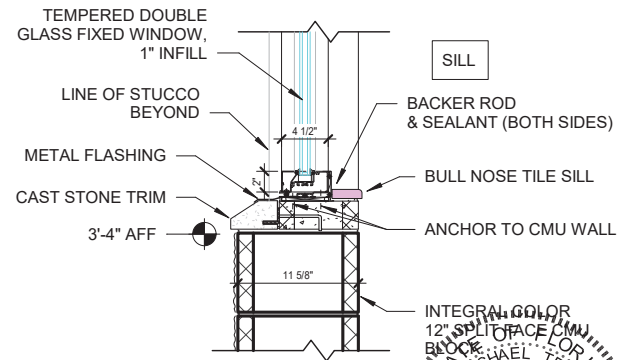
3 Window Detail (W2) - Sill and Head
1" = 1'-0"



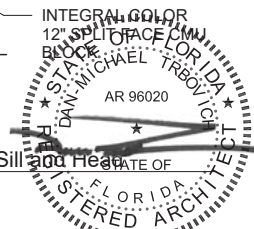
1 Window Detail (W1) - Head and Sill
1" = 1'-0"



2 Window Detail (W1,W3) - Jamb
1" = 1'-0"



3 Window Detail (W2) - Sill and Head
1" = 1'-0"

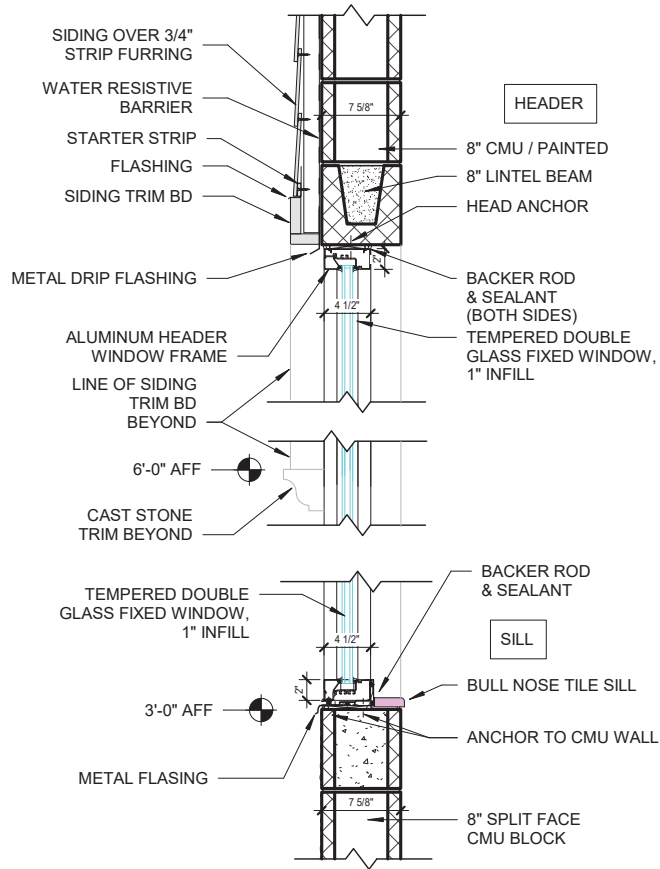


PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

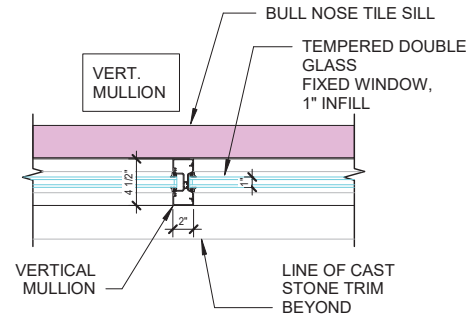
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						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.

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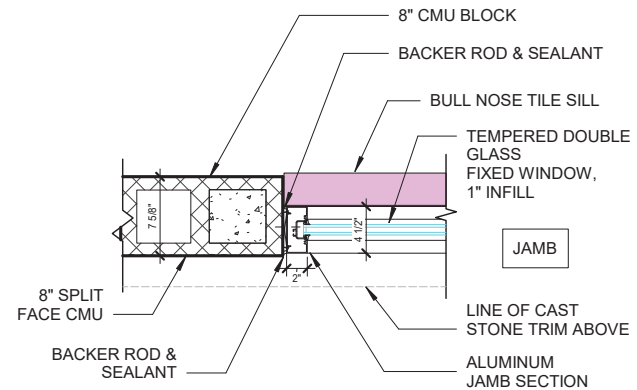
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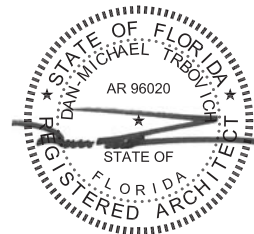
1 Window Detail (W3) - Head and Sill
A706 1" = 1'-0"



3 Window Detail (W3) - Vert. Mullion
A706 1" = 1'-0"



2 Window Detail (W3) - Jamb
A706 1" = 1'-0"



REVISIONS						PROJECT NORTH			100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA			DRAWING NO.	
						WINDOW DETAILS			A706	
									SHEET NO.	

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

ROAD NO.

COUNTY

FINANCIAL PROJECT ID

SR 8

COLUMBIA

438609-1-52-01

BORRELLI + PARTNERS

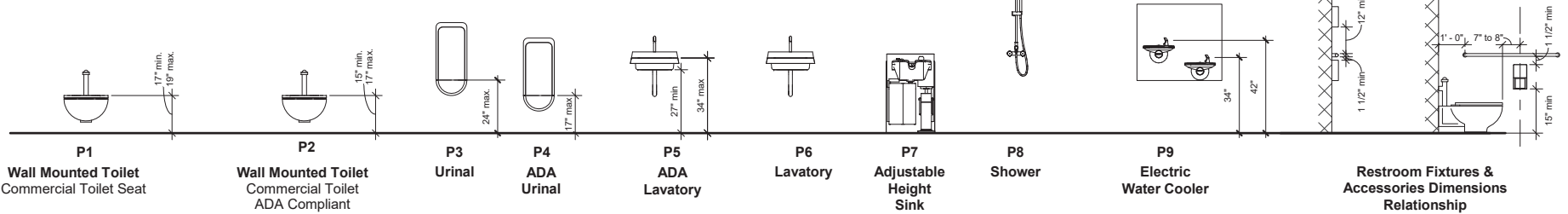
ARCHITECTURE PLANNING LANDSCAPE INTERIORS

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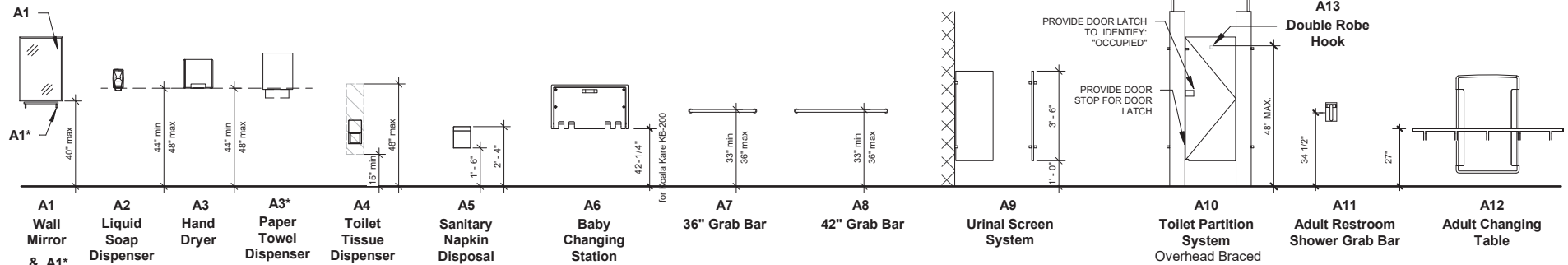
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Fixtures & Accessories Mounting Heights

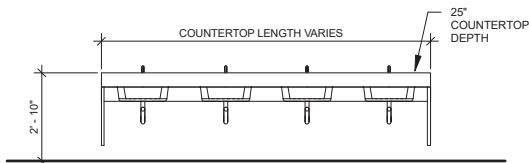


Restrooms Plumbing Fixtures



SS Shelf

Restrooms Specialty Equipment



Restrooms Countertop Mounting Height

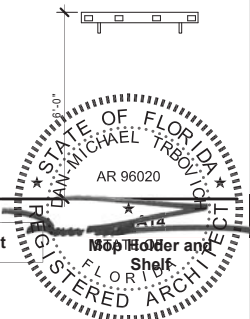
NOTE:

FIXTURES & ACCESSORIES MOUNTING HEIGHTS MAY CHANGE DEPENDING ON THE SPECIFIC FIXTURES SELECTED. ALL PROPOSED FIXTURES MUST BE REVIEWED AND APPROVED PRIOR TO INSTALLATION.

ALL ITEMS TO BE MOUNTED IN ACCORDANCE WITH FLORIDA BUILDING CODE.

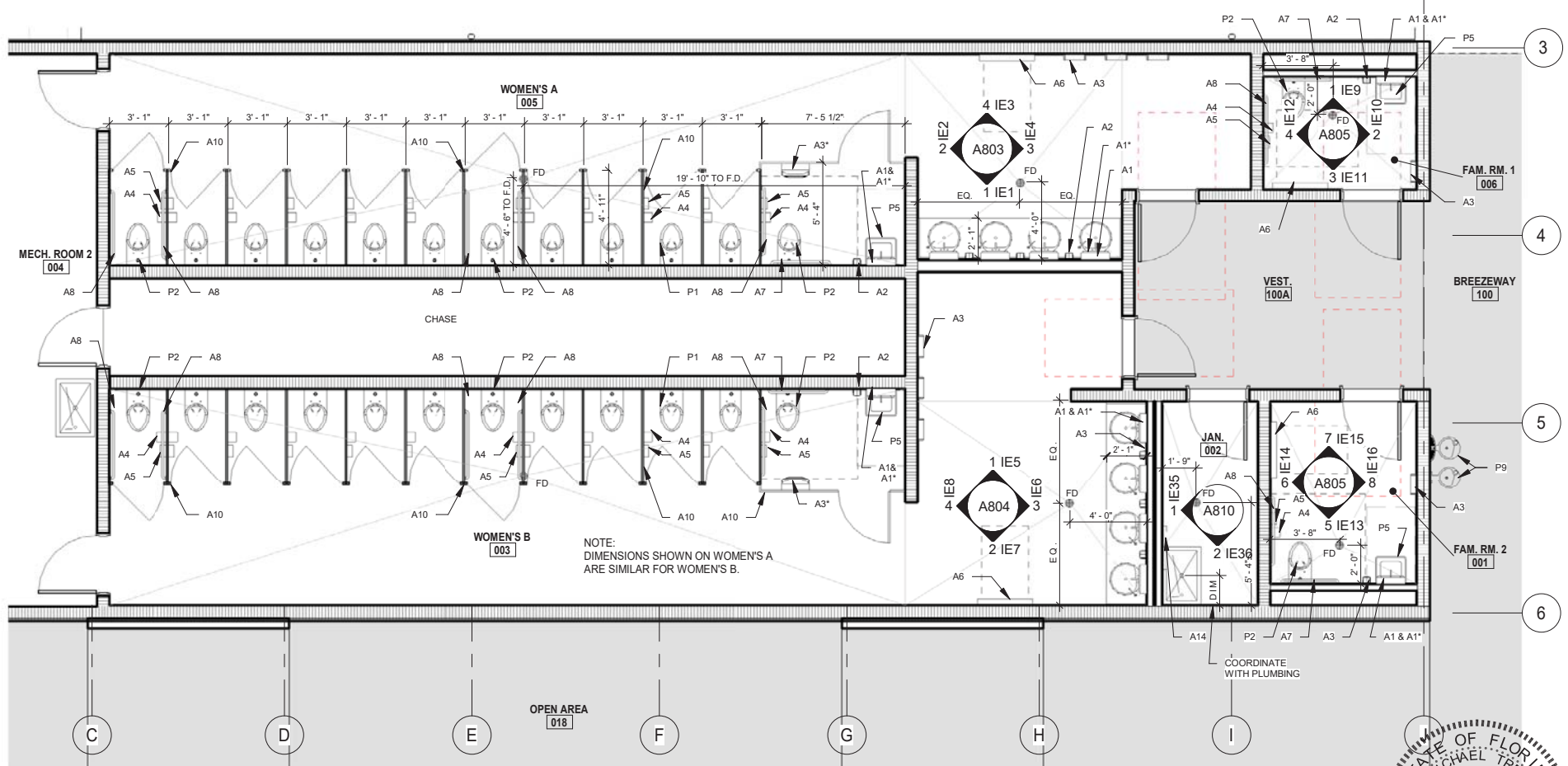
REFER TO SPECIFICATIONS FOR TOILET ACCESSORIES SCHEDULE.

Janitor Specialty Equipment



REVISIONS						PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	DRAWING NO.
						SR 8	COLUMBIA	438609-1-52-01	A800
						FIXTURES AND ACCESSORIES MOUNTING HEIGHT			SHEET NO.

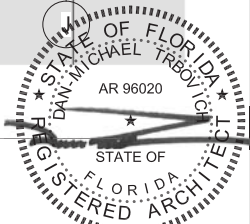
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1 WOMEN RR'S TA
3/16" = 1'-0"

NOTES:

- 1- ALL ITEM TO BE MOUNTED IN ACCORDANCE WITH FLORIDA BUILDING CODE 2017 - 6TH EDITION.
- 2- FIXTURES AND ACCESSORIES MOUNTING HEIGHTS MAY CHANGE DEPENDING ON THE SPECIFIC FIXTURES SELECTED. ALL PROPOSED FIXTURES MUST BE REVIEWED AND APPROVED.
- 3- PROVIDE WOOD BLOCKING AROUND WATER CLOSETS AND SHOWER AND AT ALL GRAB BARS & OTHER TOILET ACCESSORIES AS NECESSARY.



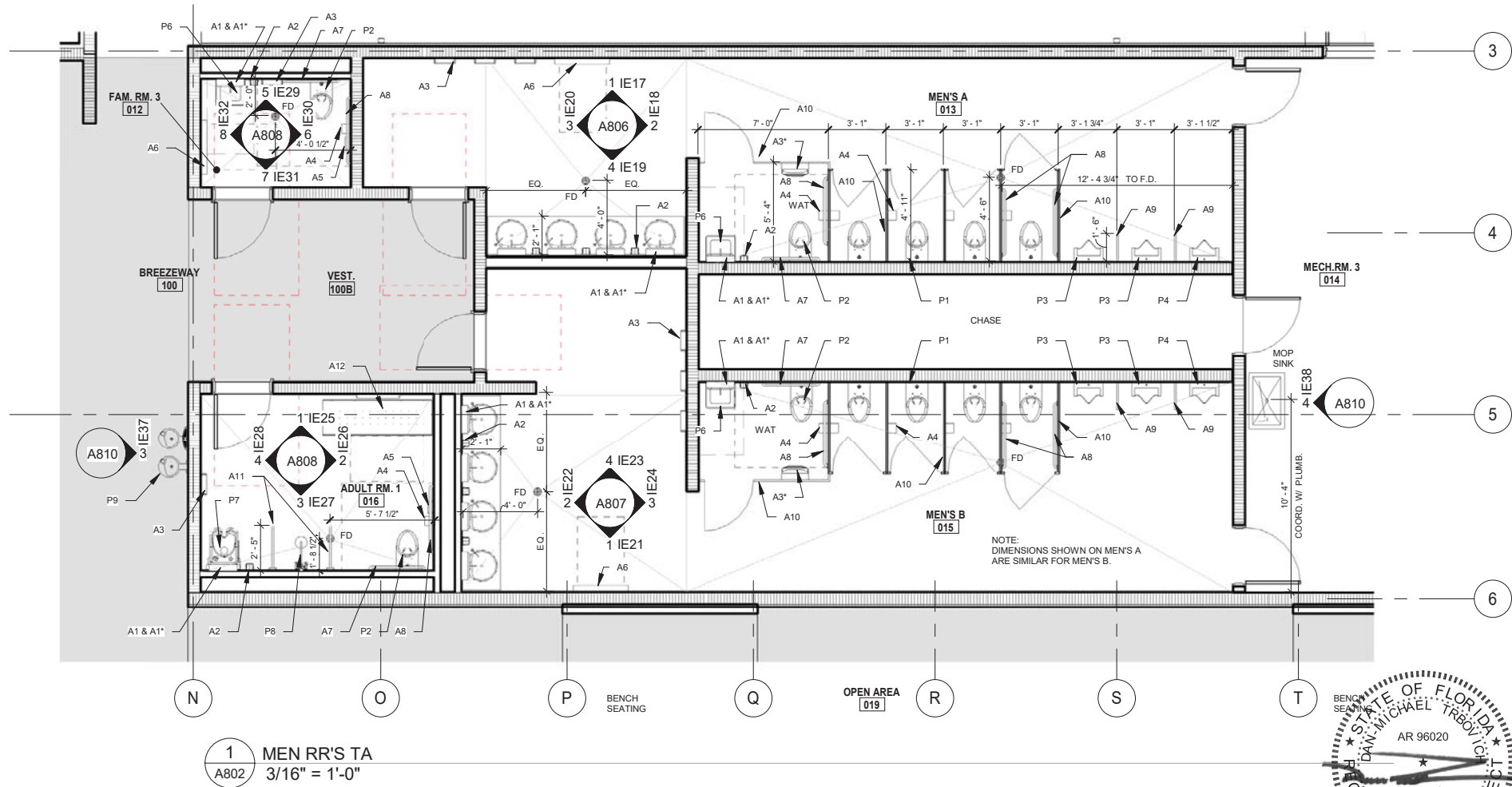
PROJECT NORTH **100% CONSTRUCTION DOCUMENTS**

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	WOMEN RR'S TOILET ACCESSORIES PLAN		A801
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.

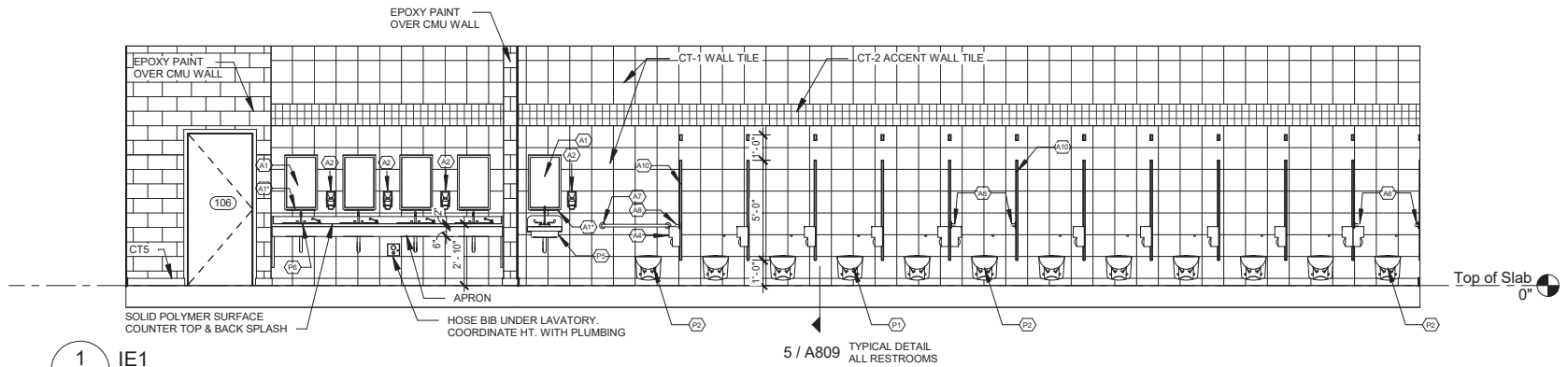


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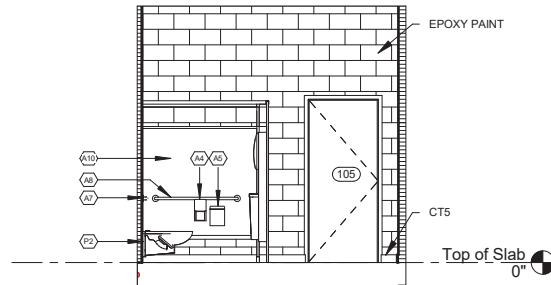
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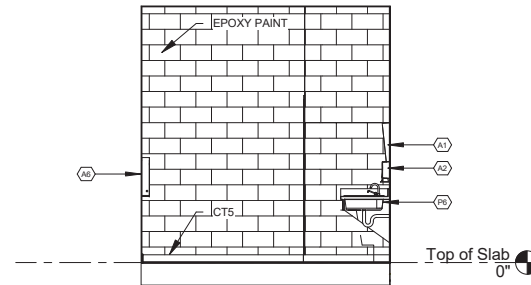
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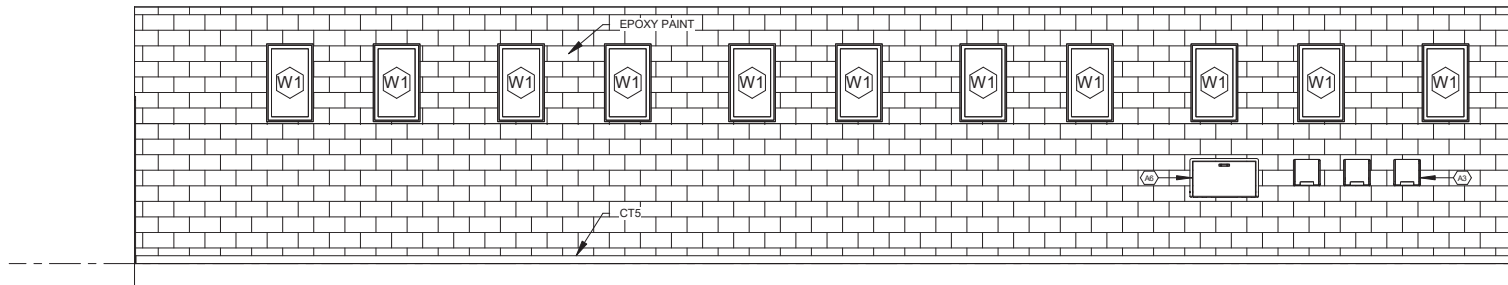
1 IE1
A803 3/16" = 1'-0"



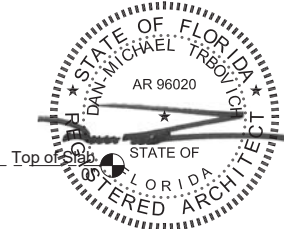
2 IE2
A803 3/16" = 1'-0"



3 IE4
A803 3/16" = 1'-0"



4 IE3
A803 3/16" = 1'-0"

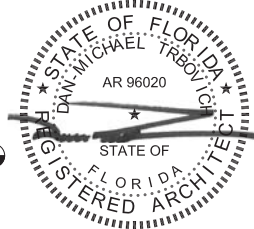
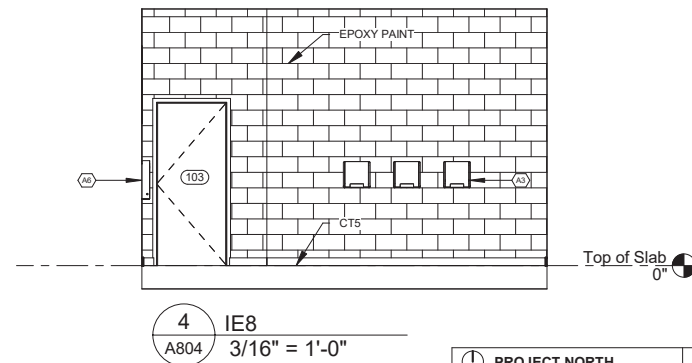
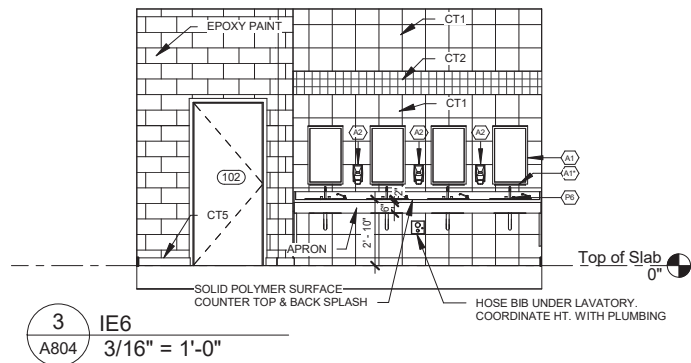
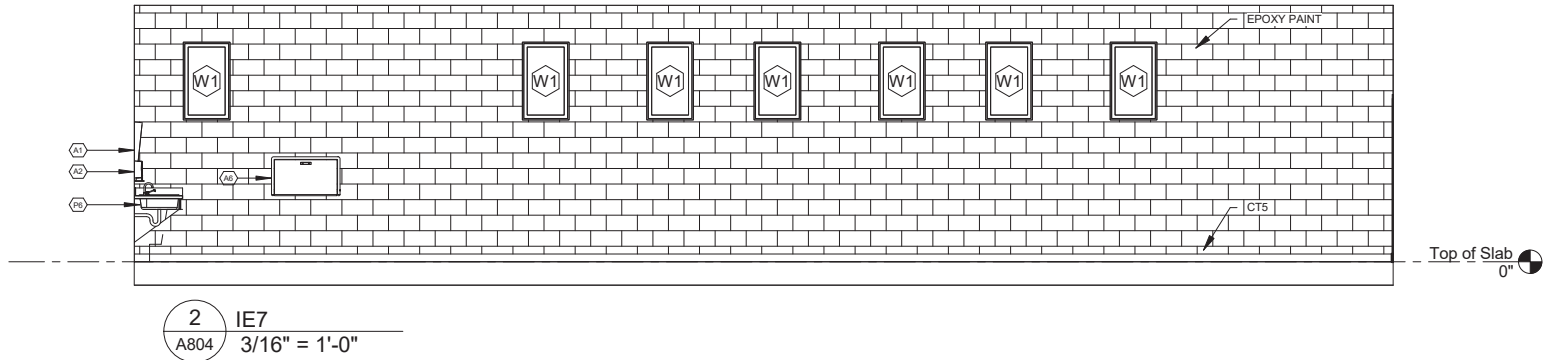
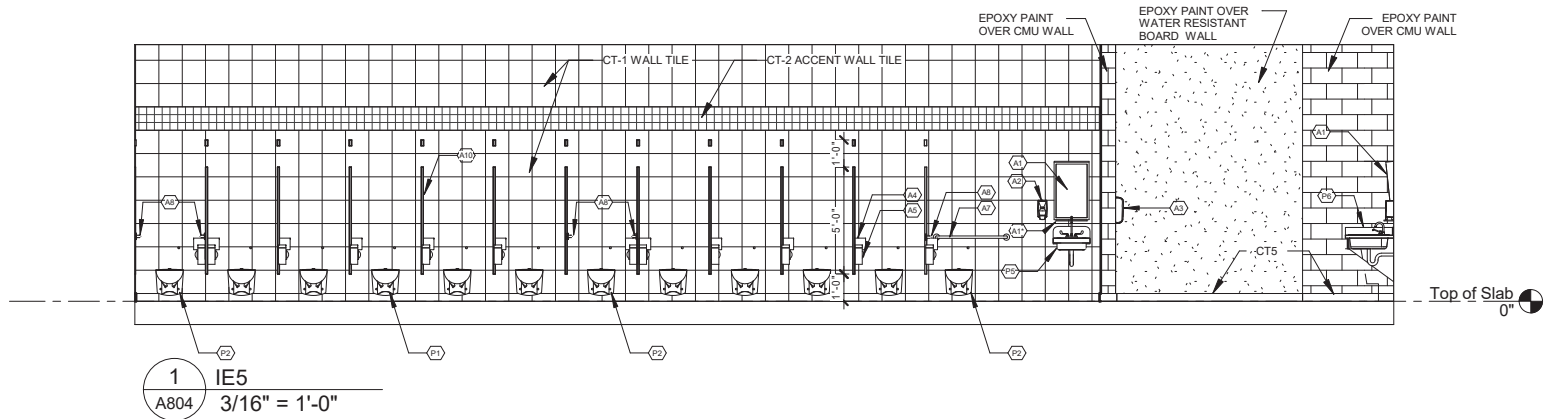


PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	INTERIOR ELEVATIONS		A803
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.



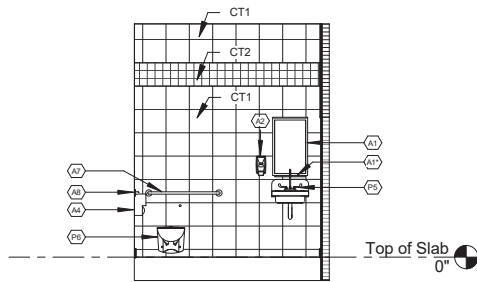
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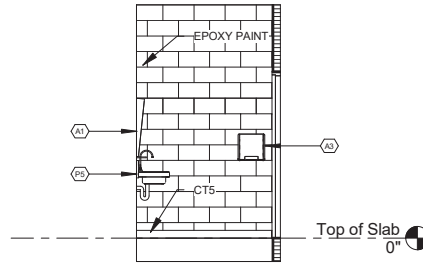
REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
						SR 8	COLUMBIA	438609-1-52-01	INTERIOR ELEVATIONS		A804	
											SHEET NO.	



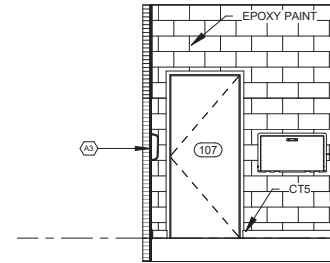
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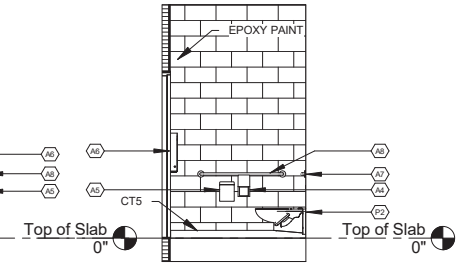
1 IE9
A805 3/16" = 1'-0"



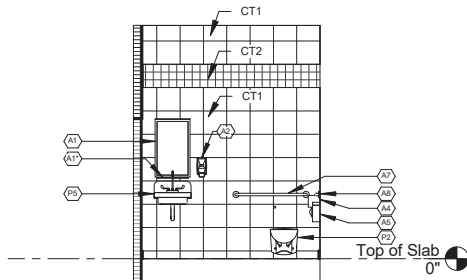
2 IE10
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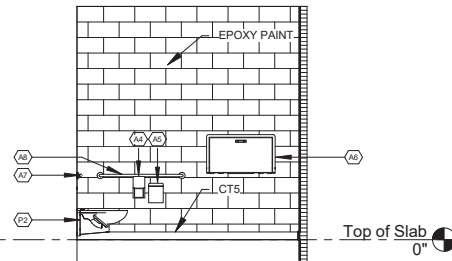
3 IE11
A805 3/16" = 1'-0"



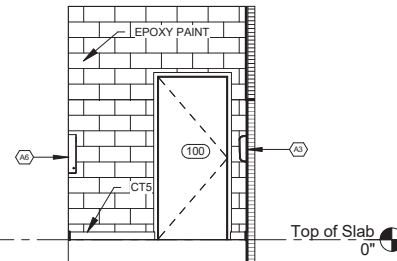
4 IE12
A805 3/16" = 1'-0"



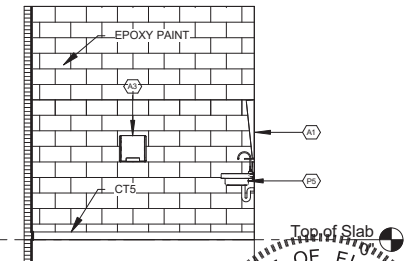
5 IE13
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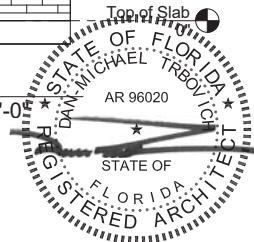
6 IE14
A805 3/16" = 1'-0"



7 IE15
A805 3/16" = 1'-0"



8 IE16
A805 3/16" = 1'-0"



										① PROJECT NORTH		100% CONSTRUCTION DOCUMENTS					
REVISIONS						<div> BORRELLI + PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIORS <small>720 Vassar Street, Orlando FL 32804 407.618.1528 Fax: 407.618.1542 www.borrellipartners.com Our practice is a national firm with offices in Atlanta, Chicago, Dallas, Denver, Fort Worth, Houston, Los Angeles, Miami, Minneapolis, New York, Phoenix, Portland, San Francisco, Seattle, and Washington, D.C. We provide a full range of services from conceptual design to construction administration. We are currently seeking qualified individuals for various positions. Please send your resume and portfolio to: hr@borrellipartners.com</small></div>				SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA				DRAWING NO. A805			
DATE	BY	DESCRIPTION								DATE		BY	DESCRIPTION		SHEET NO.		
						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				INTERIOR ELEVATIONS							
ROAD NO.		COUNTY		FINANCIAL PROJECT ID													
SR 8		COLUMBIA		438609-1-52-01													

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIORS
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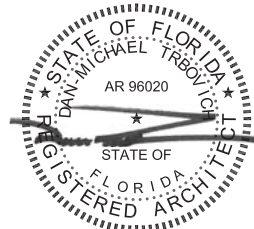
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
SR 8 COLUMBIA 438609-1-52-01

SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA
INTERIOR ELEVATIONS
DRAWING NO. A805
SHEET NO.

Architectural section drawing of a laboratory layout. The drawing shows a series of laboratory equipment units, including sinks and storage cabinets, along a wall. Key features include:

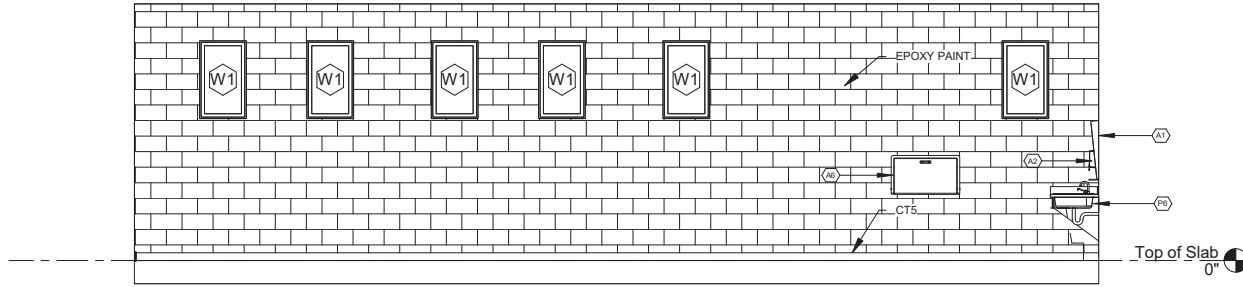
- Equipment and Sinks:** A series of laboratory equipment units, including sinks and storage cabinets, are shown along a wall. The units are labeled with callouts such as A8, P4, CT1, CT2, A10, A4, A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100.
- Plumbing and Electrical:** Plumbing and electrical lines are shown running through the wall and under the equipment. Callouts include P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57, P58, P59, P60, P61, P62, P63, P64, P65, P66, P67, P68, P69, P70, P71, P72, P73, P74, P75, P76, P77, P78, P79, P80, P81, P82, P83, P84, P85, P86, P87, P88, P89, P90, P91, P92, P93, P94, P95, P96, P97, P98, P99, P100.
- Countertops and Backsplashes:** The drawing shows a solid polymer surface countertop and back splash. Callouts include CT1, CT2, CT3, CT4, CT5, CT6, CT7, CT8, CT9, CT10, CT11, CT12, CT13, CT14, CT15, CT16, CT17, CT18, CT19, CT20, CT21, CT22, CT23, CT24, CT25, CT26, CT27, CT28, CT29, CT30, CT31, CT32, CT33, CT34, CT35, CT36, CT37, CT38, CT39, CT40, CT41, CT42, CT43, CT44, CT45, CT46, CT47, CT48, CT49, CT50, CT51, CT52, CT53, CT54, CT55, CT56, CT57, CT58, CT59, CT60, CT61, CT62, CT63, CT64, CT65, CT66, CT67, CT68, CT69, CT70, CT71, CT72, CT73, CT74, CT75, CT76, CT77, CT78, CT79, CT80, CT81, CT82, CT83, CT84, CT85, CT86, CT87, CT88, CT89, CT90, CT91, CT92, CT93, CT94, CT95, CT96, CT97, CT98, CT99, CT100.
- Other Details:** The drawing includes a door labeled 109, a hose bib under the lavatory, and a coordinate height with plumbing. Callouts include 109, HOSE BIB UNDER LAVATORY, COORDINATE HT. WITH PLUMBING.

Labels and callouts include: A8, P4, CT1, CT2, A10, A4, A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100, P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57, P58, P59, P60, P61, P62, P63, P64, P65, P66, P67, P68, P69, P70, P71, P72, P73, P74, P75, P76, P77, P78, P79, P80, P81, P82, P83, P84, P85, P86, P87, P88, P89, P90, P91, P92, P93, P94, P95, P96, P97, P98, P99, P100, 109, HOSE BIB UNDER LAVATORY, COORDINATE HT. WITH PLUMBING.

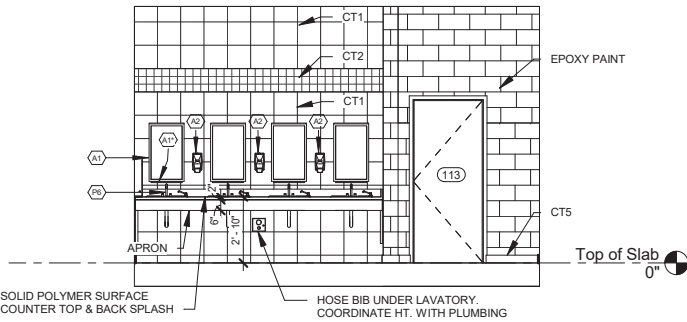


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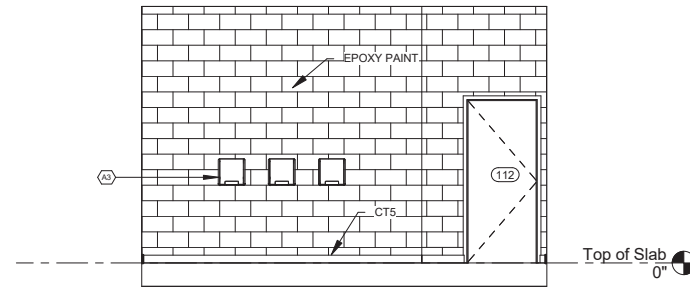
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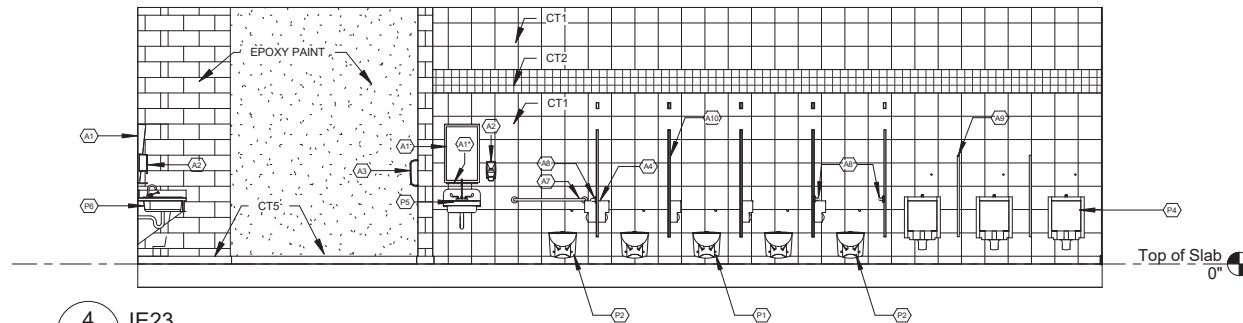
1 IE21
A807 3/16" = 1'-0"



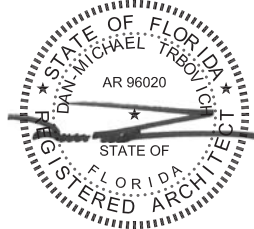
2 IE22
A807 3/16" = 1'-0"



3 IE24
A807 3/16" = 1'-0"



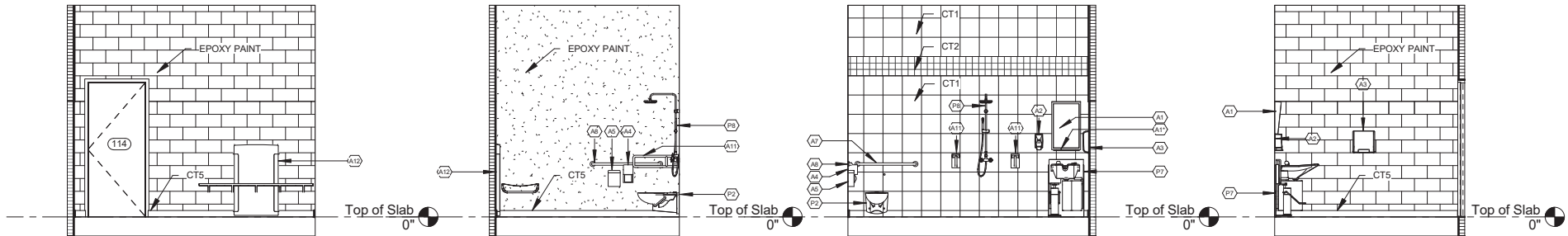
4 IE23
A807 3/16" = 1'-0"



REVISIONS						PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		INTERIOR ELEVATIONS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			DRAWING NO.	SHEET NO.
						SR 8	COLUMBIA	438609-1-52-01	A807

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIORS
720 Hammer Street, Orlando, FL 32804-4024-1234 (P) 407-438-1234
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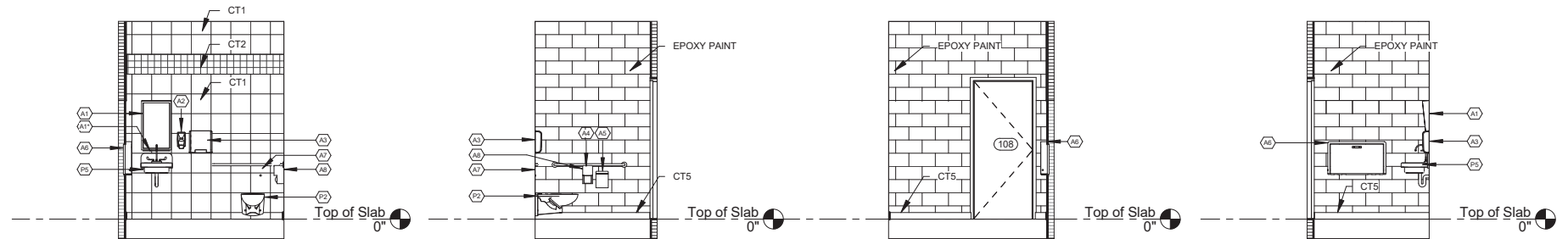


1 IE25
A808 3/16" = 1'-0"

2 IE26
A808 3/16" = 1'-0"

3 IE27
A808 3/16" = 1'-0"

4 IE28
A808 3/16" = 1'-0"

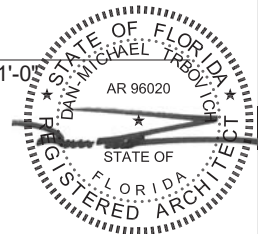


5 IE29
A808 3/16" = 1'-0"

6 IE30
A808 3/16" = 1'-0"

7 IE31
A808 3/16" = 1'-0"

8 IE32
A808 3/16" = 1'-0"



REVISIONS						PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			SHEET NO.	
						SR 8		A808	
						COLUMBIA		INTERIOR ELEVATIONS	
						438609-1-52-01			

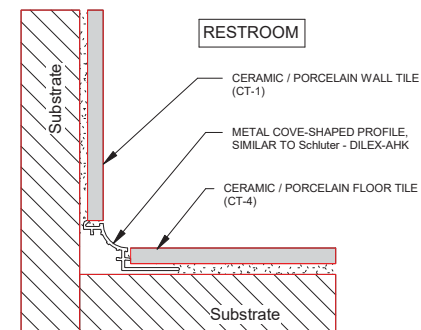
BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIORS
720 Tamiami Trail, Suite 700, Naples, FL 34104-1128 | Tel: 407.478.1542
Fax: 407.478.1543
www.borrelli.com

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

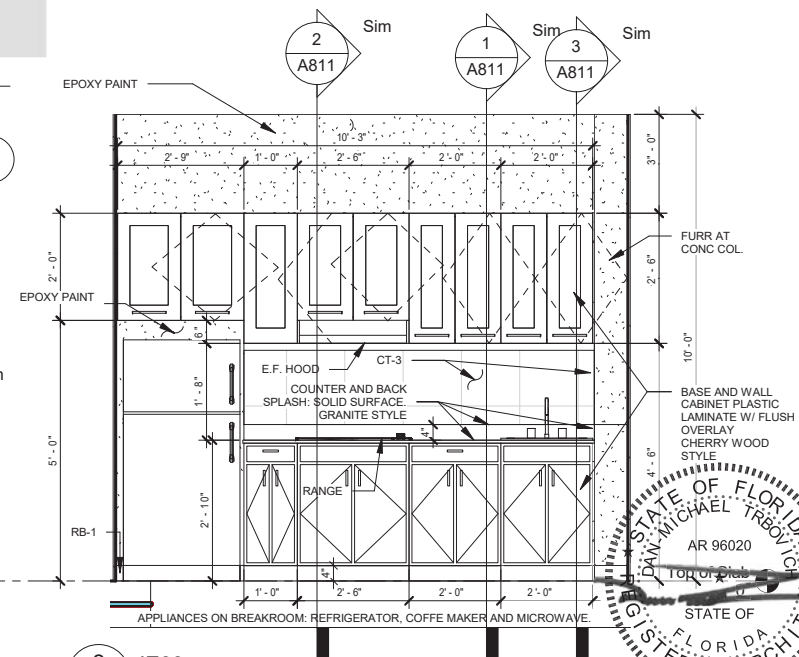
SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA

DRAWING NO.

SHEET NO.



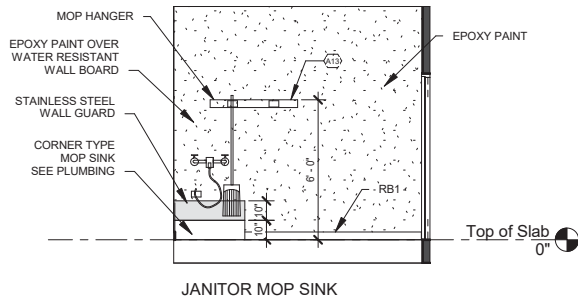
1 BREAK ROOM ENLARGEMENT
A809 3/16" = 1'-0"



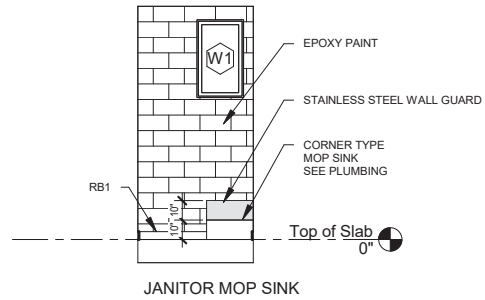
2	IE33
A809	3/8" = 1'-0"

SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	DRAWING NO.	A809
	SHEET NO.	

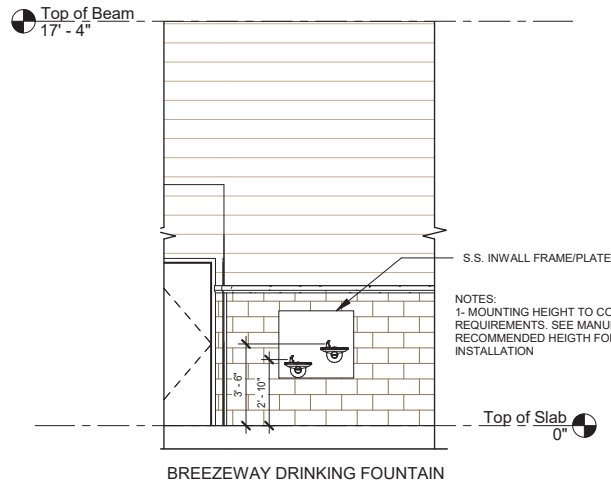
P:\1-10 Rest Area Improvements (19-049) GA14 - Drawings\A - Active Drawings\1 - B+P\Local Files\DD\LOCAL\1-10 Rest_LOCAL_DD.rvt



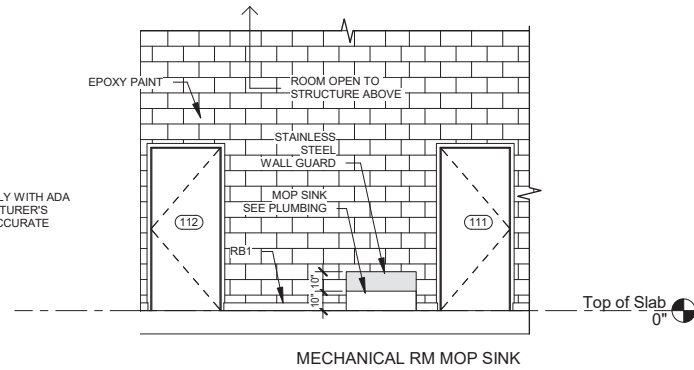
1 IE35
A810 3/16" = 1'-0"



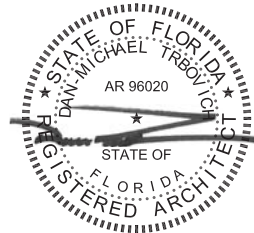
2 IE36
A810 3/16" = 1'-0"



3 IE37
A810 3/16" = 1'-0"

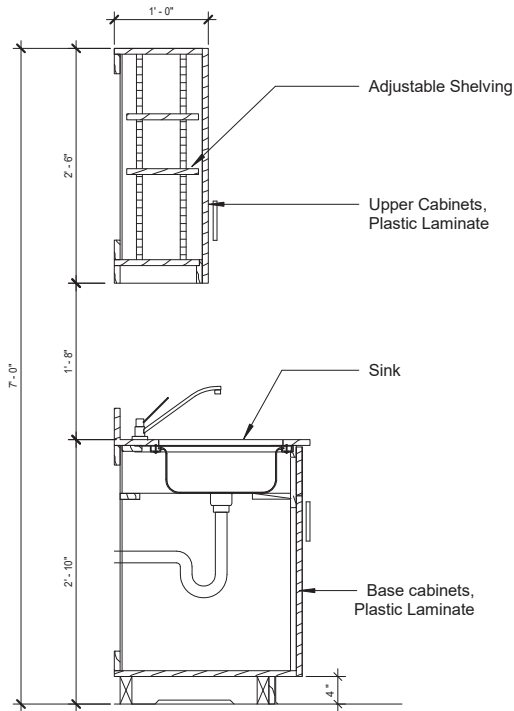


4 IE38
A810 3/16" = 1'-0"

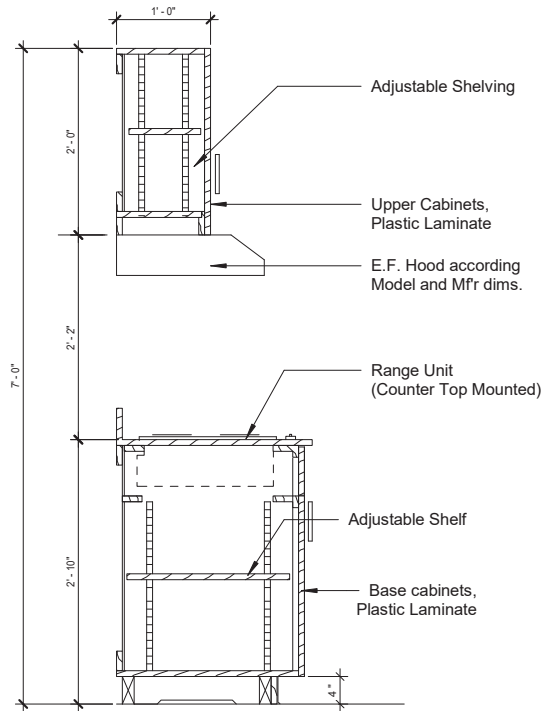


						PROJECT NORTH		100% CONSTRUCTION DOCUMENTS				
REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO. A810
DATE	BY	DESCRIPTION		DATE	BY					DESCRIPTION		INTERIOR ELEVATIONS
<div><div></div><div>BORRELLI + PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIORS 720 Vesper Street, Orlando FL 32804 407.618.1326 Fax 407.618.1342 <small>PROYECTOS, PLANEJAMENTO, PROJETO E GESTÃO DE OBRAS DE INFRA-ESTRUTURA, EDIFICAÇÕES, INTERIORES E EXTERIORES. 100% ANOS DE EXPERIÊNCIA. 100% QUALIDADE. 100% SUSTENTABILIDADE. 100% INOVAÇÃO. 100% CRIATIVIDADE. 100% COMPROMISSO. 100% RESPONSABILIDADE. 100% TRANSPARENCIA. 100% ÉTICA. 100% RESPEITO. 100% HUMANIDADE. 100% PAZ. 100% AMOR. 100% FELICIDADE. 100% VIDA. 100% BEM-ESTAR. 100% SAÚDE. 100% BELEZA. 100% ARTE. 100% CULTURA. 100% HISTÓRIA. 100% HERANÇA. 100% MEMÓRIA. 100% IDENTIDADE. 100% CARACTER. 100% PERSONALIDADE. 100% ESTILO. 100% GOSTO. 100% SABOR. 100% PAIXÃO. 100% DETERMINAÇÃO. 100% FORÇA DE VOLUNTARIEDADE. 100% CORAGEM. 100% FÉ. 100% ESPERANÇA. 100% CARIDADE. 100% AMOR PRÓPRIO. 100% RESPEITO PRÓPRIO. 100% HONRA. 100% DIGNIDADE. 100% RESPEITO ALHEIO. 100% HONRA ALHEIA. 100% DIGNIDADE ALHEIA. 100% RESPEITO À DIVERSIDADE. 100% 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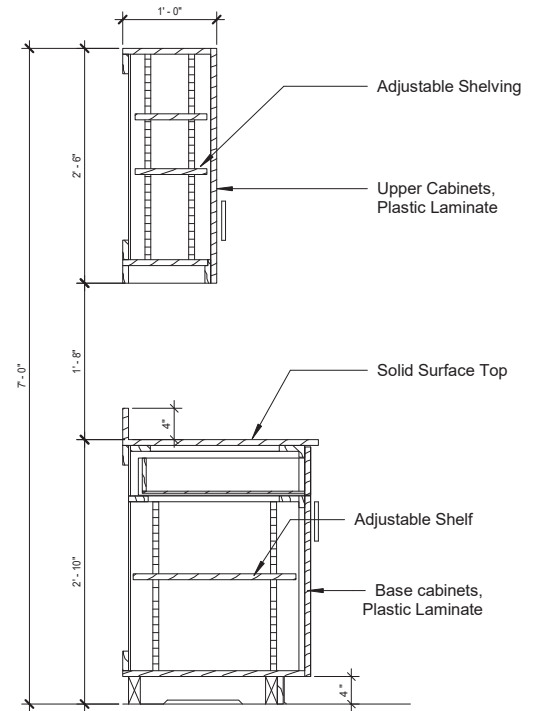
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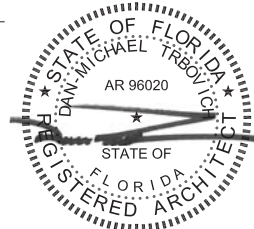
3 Cabinets Section C
A811 3/4" = 1'-0"



2 Cabinets Section B
A811 3/4" = 1'-0"

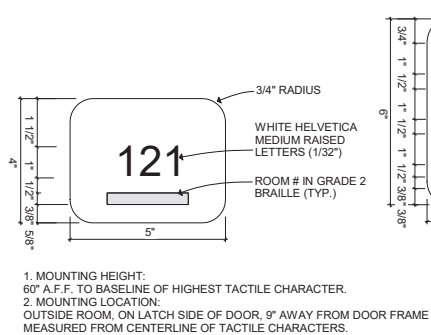


1 Cabinets Section A
A811 3/4" = 1'-0"

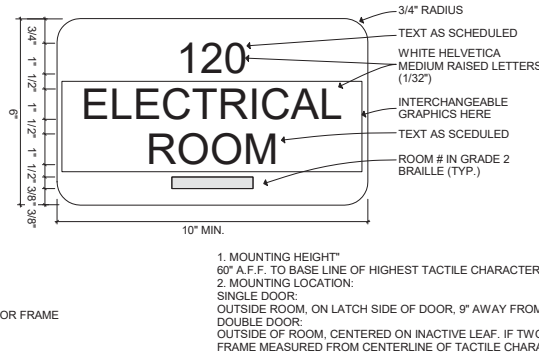


REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	MILLWORK		A811
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.

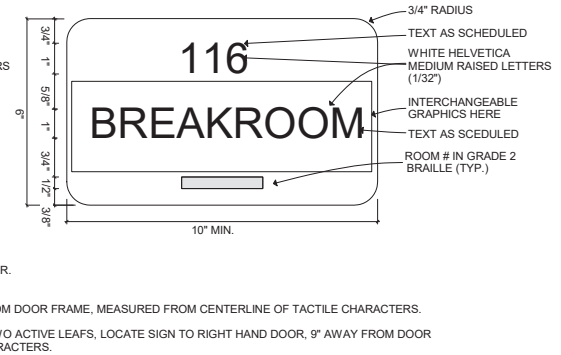




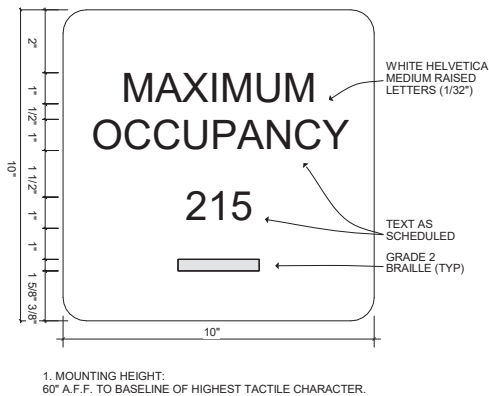
Signage Type S-3



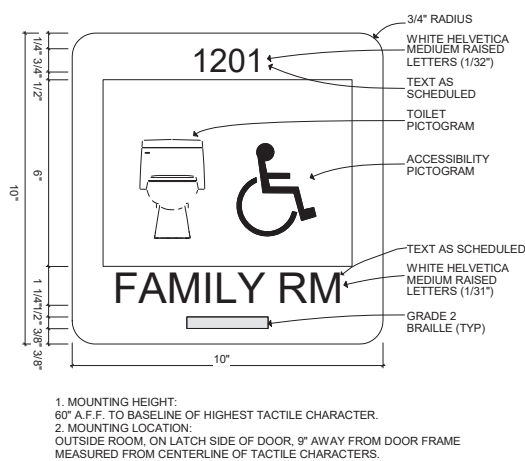
Signage Type S-2A



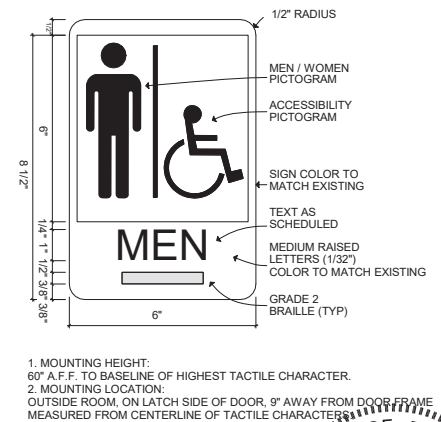
Signage Type S-2



Signage Type S-4



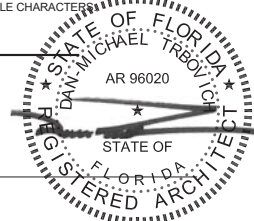
Signage Type S-1A



Signage Type S-1

ADA ACCESSIBLE SIGNAGE TO COMPLY WITH FBC 2017 6TH EDITION ACCESSIBILITY SECTION 703.
PROVIDE (1) SIGN PER TOILET ROOM.
SIGNS TO BE RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL OF ACCESSIBILITY.
COLOR: NAVY BLUE WITH WHITE CHARACTERS.

1
A812 TYP. SIGNAGES TYPES
6" = 1'-0"



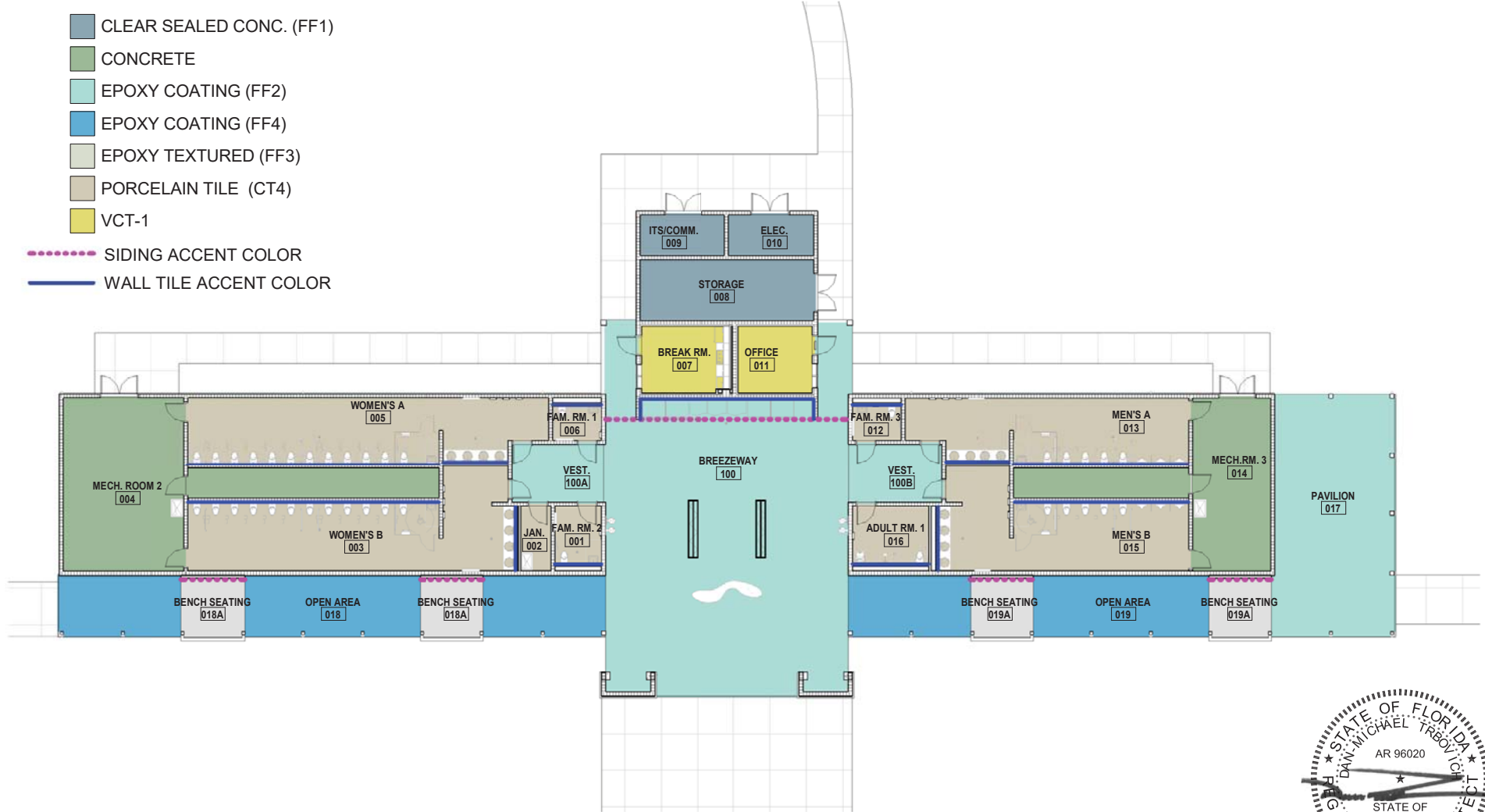
REVISIONS						PROJECT NORTH			100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	DRAWING NO. A812
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SIGNAGE	SHEET NO.
						SR 8	COLUMBIA	438609-1-52-01		



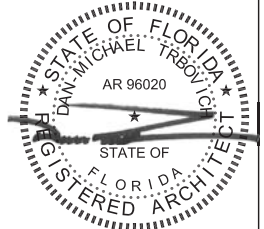
BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIORS
720 Tamiami Trail, Suite 700, Naples, FL 34102-4112
TEL: 239.438.1313 FAX: 239.438.1314
WWW.BORRELLI-PARTNERS.COM

FINISH LEGEND

- CLEAR SEALED CONC. (FF1)
- CONCRETE
- EPOXY COATING (FF2)
- EPOXY COATING (FF4)
- EPOXY TEXTURED (FF3)
- PORCELAIN TILE (CT4)
- VCT-1
- SIDING ACCENT COLOR
- WALL TILE ACCENT COLOR



1 FINISH FLOOR PLAN
A900 1/16" = 1'-0"



PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIORS
720 Tamiami Trail, Suite 700, Sarasota, FL 34236-4118
Tel: 941.555.1111 Fax: 941.555.1112
www.borrelli.com

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO. A900
FINISH PLAN		SHEET NO.

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P:\1-10 Rest Area Improvements (19-049) GAI-1 - Drawings\A - Active Drawings\1 - B+P\Local Files\DD LOCAL\1-10 Rest_LOCAL_DD.rvt

ROOM FINISH SCHEDULE

Rm. No.	Name	Floor Finish	Base Finish	WALLS				CEILING	Comments
				South	West	North	East	Finish	
001	FAM. RM. 2	PORCELAIN TILE (CT4)	CT5	CT1, CT2	EPOXY PAINT	EPOXY PAINT	EPOXY PAINT	SEMI-GLOSS LATEX PAINT	
002	JAN.	PORCELAIN TILE (CT4)	RB1	EPOXY PAINT	EPOXY PAINT	EPOXY PAINT	EPOXY PAINT	SEMI-GLOSS LATEX PAINT	
003	WOMEN'S B	PORCELAIN TILE (CT4)	CT5	EPOXY PAINT	EPOXY PAINT	CT1, CT2	CT1, CT2	SEMI-GLOSS LATEX PAINT	
004	MECH. ROOM 2	CONCRETE	RB1	PAINT	PAINT	PAINT	PAINT	EXPOSED	
005	WOMEN'S A	PORCELAIN TILE (CT4)	CT5	CT1, CT2	EPOXY PAINT	EPOXY PAINT	EPOXY PAINT	SEMI-GLOSS LATEX PAINT	
006	FAM. RM. 1	PORCELAIN TILE (CT4)	CT5	EPOXY PAINT	EPOXY PAINT	CT1, CT2	EPOXY PAINT	SEMI-GLOSS LATEX PAINT	
007	BREAK RM.	VCT-1	RB1	EPOXY PAINT	EPOXY PAINT	EPOXY PAINT	EPOXY PAINT	SEMI-GLOSS LATEX PAINT	
008	STORAGE	CLEAR SEALED CONC. (FF1)	RB1	PAINT	PAINT	PAINT	PAINT	PAINT	
009	ITS/COMM.	CLEAR SEALED CONC. (FF1)	RB1	PLYWOOD	PLYWOOD	PLYWOOD	PLYWOOD	PAINT	WALLS COVERED W/ 3/4" FIRE RETARDANT PLYWOOD
010	ELEC.	CLEAR SEALED CONC. (FF1)	RB1	PAINT	PAINT	PAINT	PAINT	PAINT	
011	OFFICE	VCT-1	RB1	PAINT	PAINT	PAINT	PAINT	PAINT	
012	FAM. RM. 3	PORCELAIN TILE (CT4)	CT5	EPOXY PAINT	EPOXY PAINT	CT1, CT2	EPOXY PAINT	SEMI-GLOSS LATEX PAINT	
013	MEN'S A	PORCELAIN TILE (CT4)	CT5	CT1, CT2	EPOXY PAINT	EPOXY PAINT	EPOXY PAINT	SEMI-GLOSS LATEX PAINT	
014	MECH RM. 3	CONCRETE	RB1	PAINT	PAINT	PAINT	PAINT	EXPOSED	
015	MEN'S B	PORCELAIN TILE (CT4)	CT5	EPOXY PAINT	CT1, CT2	CT1, CT2	EPOXY PAINT	SEMI-GLOSS LATEX PAINT	
016	ADULT RM. 1	PORCELAIN TILE (CT4)	CT5	CT1, CT2	EPOXY PAINT	EPOXY PAINT	EPOXY PAINT	SEMI-GLOSS LATEX PAINT	
017	PAVILION	EPOXY COATING (FF2)	-	-	-	-	-	T&G WOOD STAIN	WOOD STAIN COLS & BEAMS. WHITE BIRCH. EXTERIOR SEMITRANSSPARENT STAIN
018	OPEN AREA	EPOXY COATING (FF4)	-	-	-	-	-	T&G WOOD STAIN	WOOD STAIN COLS & BEAMS. WHITE BIRCH. EXTERIOR SEMITRANSSPARENT STAIN
018A	BENCH SEATING	EPOXY TEXTURED (FF3)	-	-	-	-	-	T&G WOOD STAIN	WOOD STAIN COLS & BEAMS. WHITE BIRCH. EXTERIOR SEMITRANSSPARENT STAIN
019	OPEN AREA	EPOXY COATING (FF4)	-	-	-	-	-	T&G WOOD STAIN	WOOD STAIN COLS & BEAMS. WHITE BIRCH. EXTERIOR SEMITRANSSPARENT STAIN
019A	BENCH SEATING	EPOXY TEXTURED (FF3)	-	-	-	-	-	T&G WOOD STAIN	WOOD STAIN COLS & BEAMS. WHITE BIRCH. EXTERIOR SEMITRANSSPARENT STAIN
020	CHASE	CONCRETE	-	-	-	-	-	EXPOSED	
021	CHASE	CONCRETE	-	-	-	-	-	EXPOSED	
100	BREEZEWAY	EPOXY COATING (FF2)	-	PTD CONC COLS.	-	-	-	T&G WOOD STAIN	EXTERIOR PAINT ON CONC. COLUMNS & BEAM AT BUILDING ENTRANCE
100A	VEST.	EPOXY COATING (FF2)	-	-	-	-	-	PAINT	
100B	VEST.	EPOXY COATING (FF2)	-	-	-	-	-	PAINT	
E003	PICNIC SHELTER	CONCRETE	-	-	-	-	-	PAINT	PAINT PREFAB SHELTER STRUCTURE
E004	DUMPSTER AREA	CONCRETE	-	PTD STUCCO	PTD STUCCO	PTD STUCCO	PTD STUCCO	-	EXTERIOR PAINT BOTH SIDES OF WALLS
E005	STORAGE ROOM	CONCRETE	RB1	PTD CMU	PTD CMU	PTD CMU	PTD CMU	EXPOSED	PAINT INTERIOR AND EXTERIOR OF BUILDING (CMU)

FINISH LEGEND:

FLOORING FINISH:

FF1: CLEAR SEALED CONCRETE
(AT STORAGE, ITS/COMM. AND ELECT RM.)

FF2: EPOXY COATING, MIXED APPLICATION OF FEDERAL COLOR: 33617 AND 33690 SAND
(AT BREEZEWAY, VESTIBULES AND PAVILION FLOORING)

FF3: EPOXY TEXTURED, FEDERAL COLOR: 36555 TAN
(AT BENCH SEATING SECTIONS OF THE OPEN AREAS, AS AN ACCENT FLOORING FINISH)

FF4: EPOXY COATING, FEDERAL COLOR: 33690 SAND
(AT OPEN AREAS -NOT INCLUDING THE BENCH SEATING SECTIONS)

VCT-1: 12" X 24" VINYL COMPOSITION TILES
MFR: T.B.D. COLOR: T.B.D. (LIGHT AND NEUTRAL) FINISH: HIGH GLOSS

WALL BASE:

RB1: 4" RUBBER BASE, FEDERAL COLOR: 36373 LIGHT GRAY
(AT INTERIOR ROOMS AS SCHEDULED)

CERAMIC TILE:

CT1: (8" X 8" MIN.) CERAMIC / PORCELAIN TILE - ACCENT COLOR - REFLECTIVE TILE AND SATURATED BRIGHT COLOR.
REFER TO COLOR BOARD.
(AT RESTROOMS WET WALLS AND VENDING MACHINES AREA)

CT2: 12" X 12" TOP BAND TRIM - CERAMIC / PORCELAIN TILE - MINIBRIC PATTERN DESIGN OR SIMILAR.
(AT RESTROOMS WET WALLS)

CT3: (8" X 8" MIN.) CERAMIC TILE: LIGHT BEIGE COLOR, MFR AND MODEL T.B.D.
(AT BREAKROOM BAKSPLASH)

CT4: (8" X 8" MIN.) PORCELAIN FLOOR TILE (NEUTRAL COLOR)
(AT RESTROOMS, FAMILY ROOMS, ADULT ROOM AND JANITOR FLOORING)

CT5: 6" PORCELAIN TILE BASE (BULL NOSE, COVED BASE) NEUTRAL COLOR SIMILAR TO CT4

CERAMIC FLOORING GROUT COLOR: COLOR TO BE SUBMITTED FOR REVIEW AND APPROVAL.
(NO WHITE OR LIGHT COLOR)

MILLWORK FINISHES: (USED AT BREAKROOM)

CABINET SURFACE: PLASTIC LAMINATE FINISH WITH FLUSH OVERLAY
CHERRY WOOD STYLE

COUNTER TOPS: (USED AT RESTROOMS AND BREAKROOM)

COUNTER TOP AND 4" BACK SPLASH: SOLID SURFACE
GRANITE STYLE

TOILET PARTITIONS:

3/4" SOLID PLASTIC/ PHENOLIC SURFACE, METALIC GRAY, TEXTURED, MFR: T.B.D.

EXTERIOR WALL SIDING COLORS/ PROFILES:

BASE COLOR: HORIZONTAL CLAPBOARD, NEUTRAL LIGHT COLOR T.B.D. (8" EXPOSURE)

ACCENT COLOR: HORIZONTAL CLAPBOARD, ACCENT COLOR T.B.D. (5" EXPOSURE)

CMU COLOR:

SPLIT FACED CMU: 8" X 16" COLOR: BRICK/ CLAY TONE

PAINT COLORS:

P-1 INTERIOR WALL PAINT (EPOXY PAINT), HIGH REFLECTIVE, COLOR: 37925, INSIGNIA WHITE
USED AT INTERIOR ROOMS
(TO BE EPOXY PAINT WHERE INDICATED ON SCHEDULE)

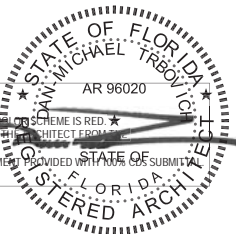
P-2 EXTERIOR PAINT HIGH REFLECTIVE WHITE SW 7757

P-3 EXTERIOR PAINT SHOJI WHITE SW 7042

P-4 WHITE BIRCH, EXTERIOR SEMI- TRANSPARENT STAIN. USED ON WOOD COLUMNS , BEAMS AND T&G CEILING.

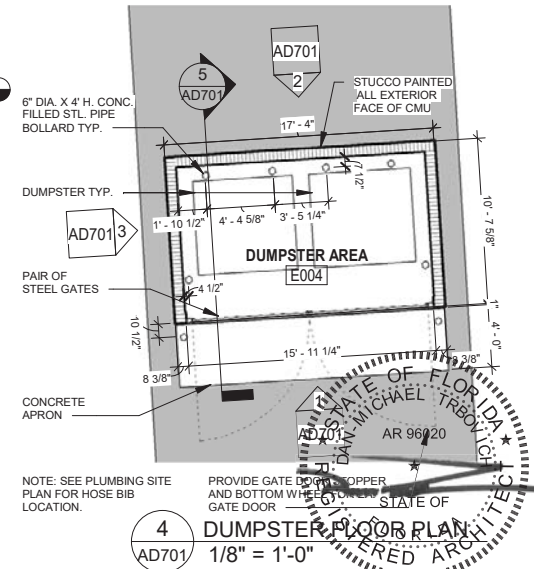
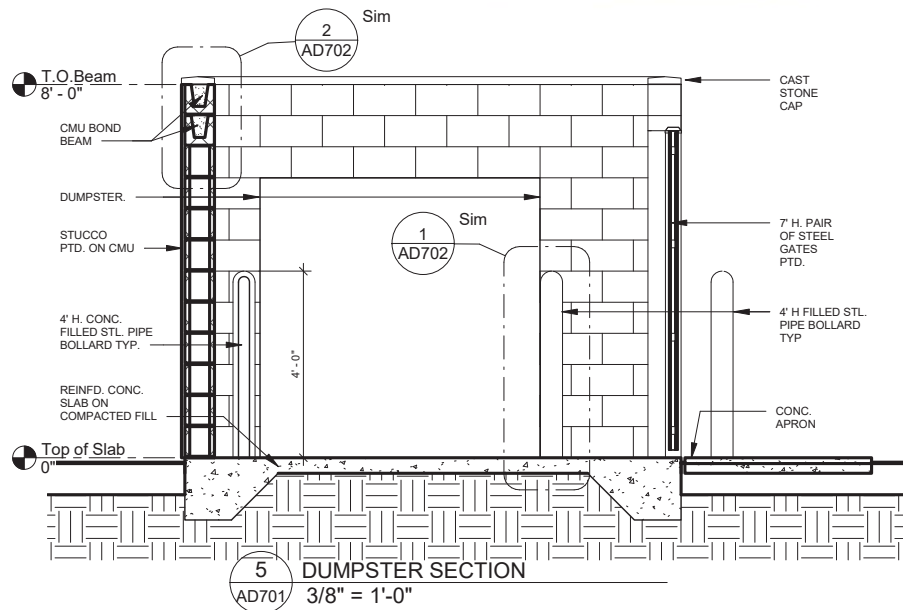
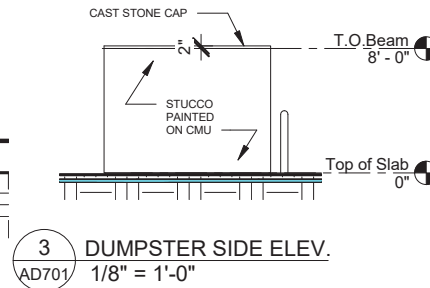
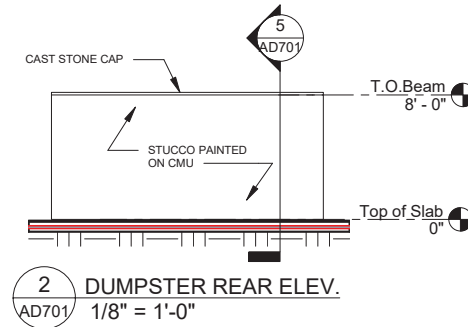
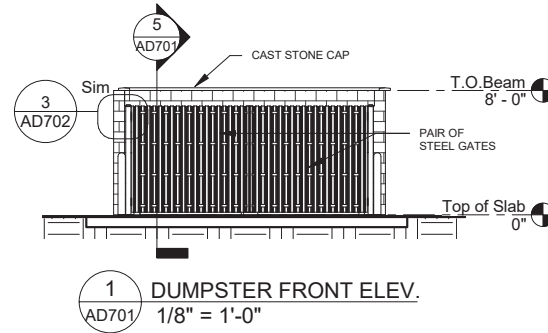
NOTE:

COLUMBIA COUNTY REST AREA PROJECT SCHEME IS RED. ★
SPECIFIC COLOR NAME/ T.B.D. BY ARCHITECT FROM THE
MANUFACTURER COLOR CHART. ★
REFER TO COLOR BOARD DOCUMENT PROVIDED WITH THIS SUBMITTAL.



PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	DRAWING NO. A901
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
											SHEET NO.
						 ARCHITECTURE PLANNING LANDSCAPE INTERIORS 729 Hudson Street, Orlando, FL 32806 407.418.1158 • Fax 407.418.1142 CORPORATE: THIS OFFICE IS THE PROPERTY OF BORRELLI + PARTNERS. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM BORRELLI + PARTNERS. 04/01/2017 / 04/01/2017	SR 8	COLUMBIA	438609-1-52-01	FINISH SCHEDULE	



NOTE: SEE PLUMBING SITE PLAN FOR HOSE BIB LOCATION.

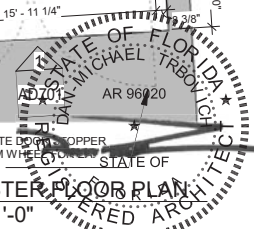
PROVIDE GATE DOOR COPPER AND BOTTOM WHEEL GATE DOOR

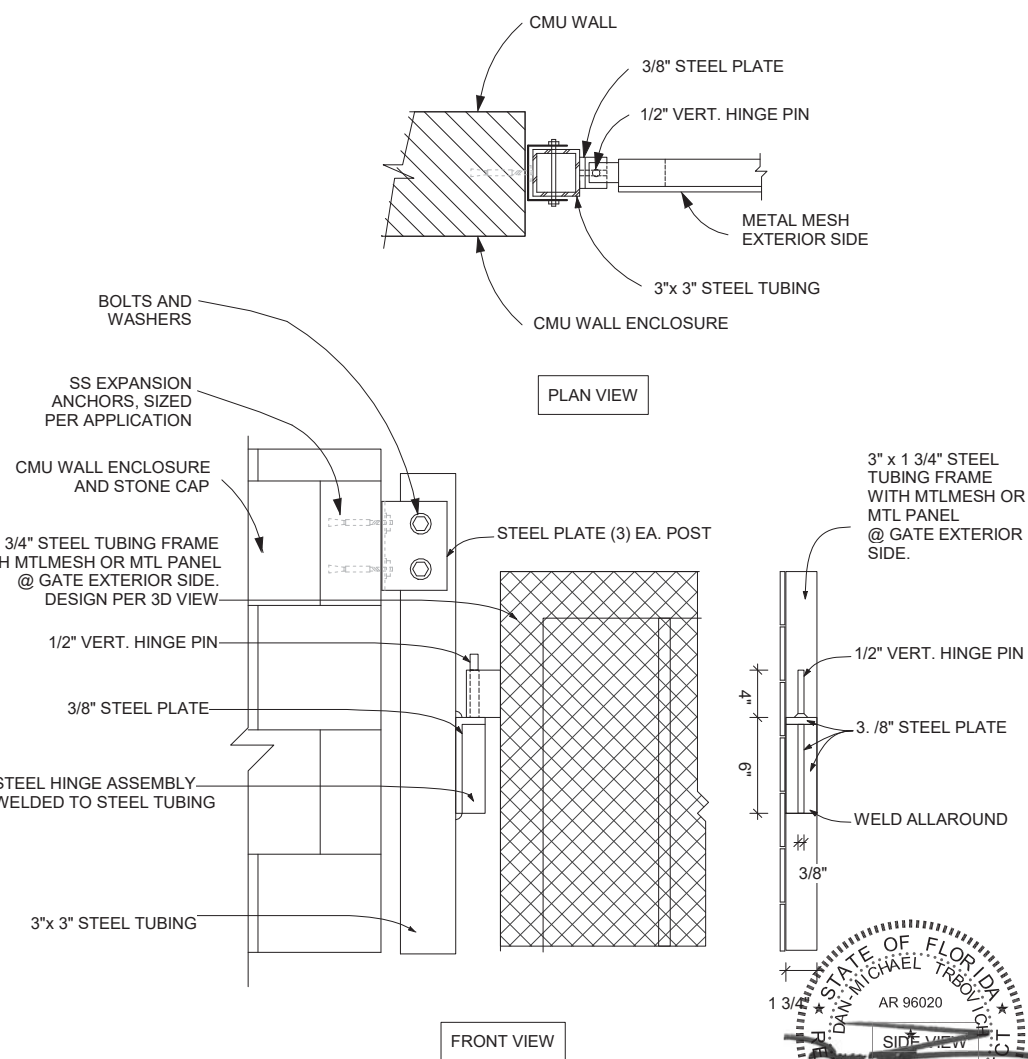
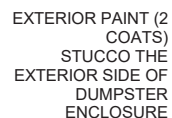
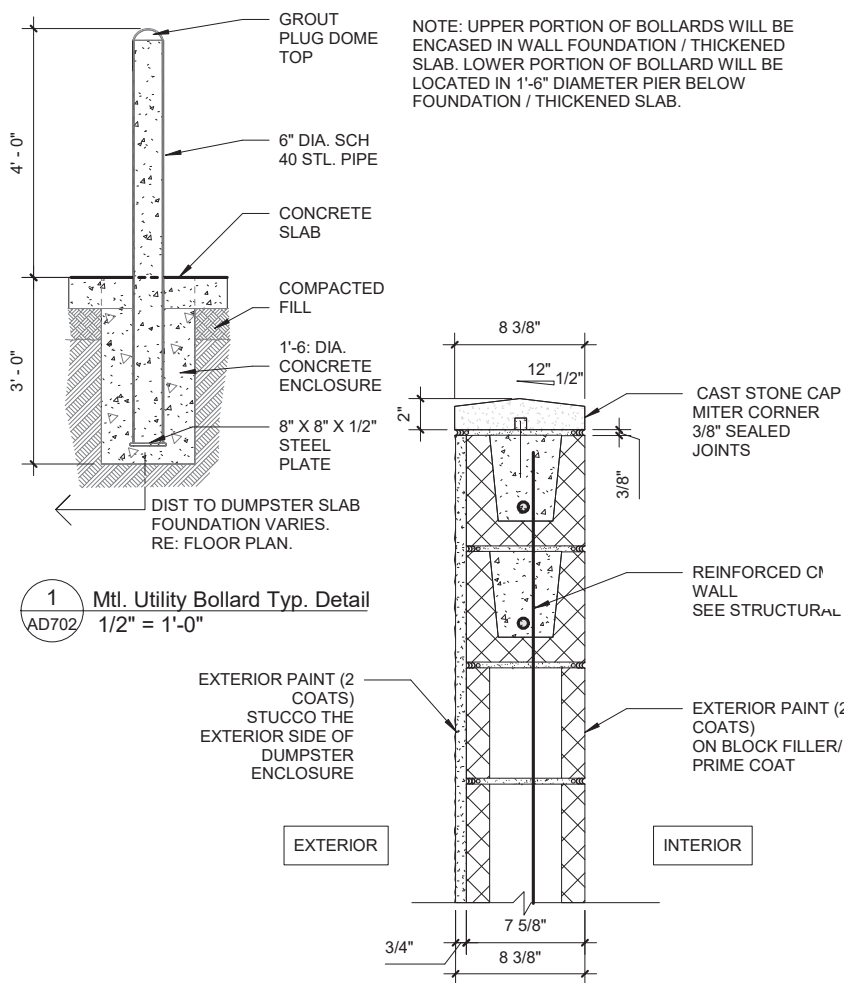
PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

P:\1-10 Rest Area Improvements (19-049) GAI1 - Drawings\A - Active Drawings\1 - B+P\Local Files\DD\LOCAL\1-10 Rest_LOCAL_DD.rvt

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	DUMPSTER		SHEET NO.
07/31/19		GENERAL REVISIONS				SR 8	COLUMBIA	438609-1-52-01			

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIORS
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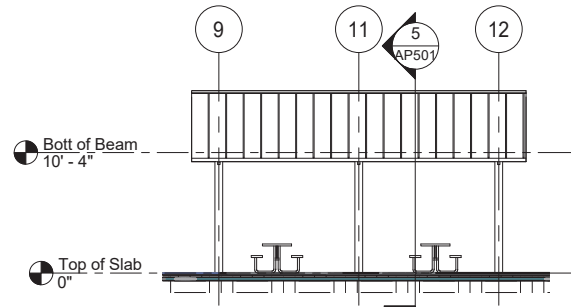




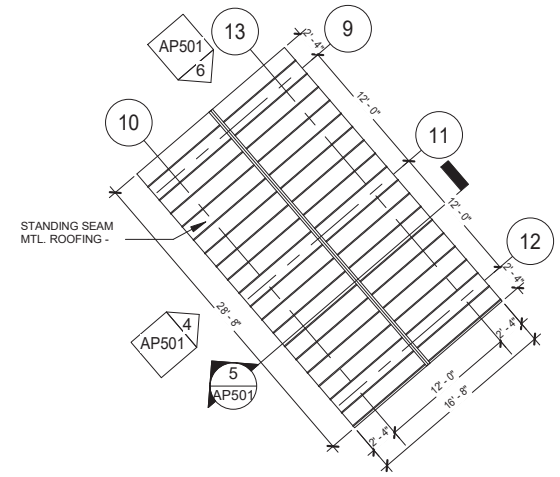
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



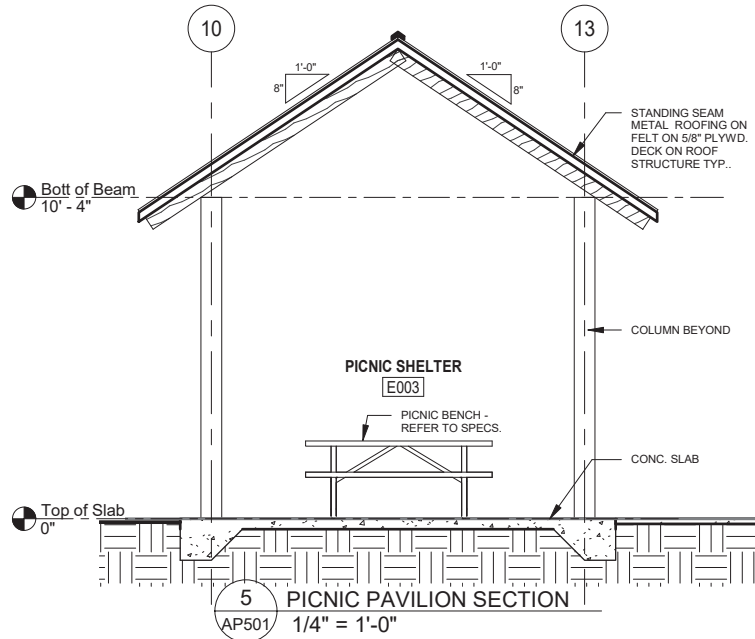
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	DRAWING NO. AD702
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	DUMPSTER DETAILS	SHEET NO.
SR 8	COLUMBIA	438609-1-52-01		



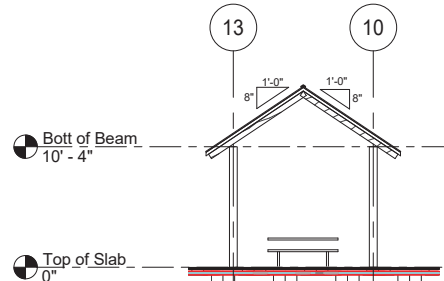
4 PAVILION ELEV. 1
AP501 3/32" = 1'-0"



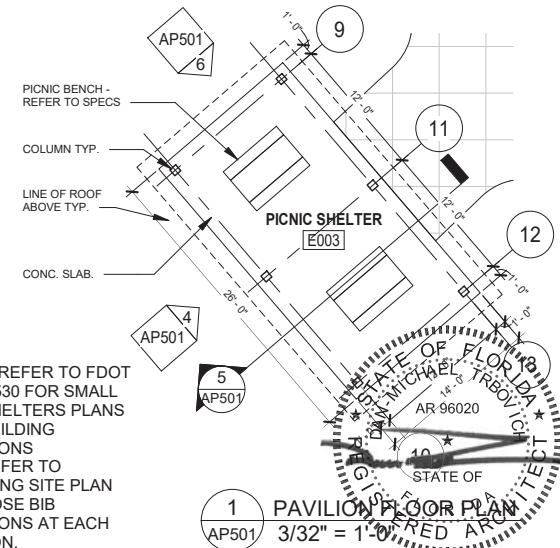
3 PAVILION ROOF PLAN
AP501 3/32" = 1'-0"



5 PICNIC PAVILION SECTION
AP501 1/4" = 1'-0"



6 PAVILION ELEV. 2
AP501 3/32" = 1'-0"



1 PAVILION FLOOR PLAN
AP501 3/32" = 1'-0"

NOTE : REFER TO FDOT INDEX 530 FOR SMALL SIZE SHELTERS PLANS FOR BUILDING LOCATIONS AND REFER TO PLUMBING SITE PLAN FOR HOSE BIB LOCATIONS AT EACH PAVILION.

PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

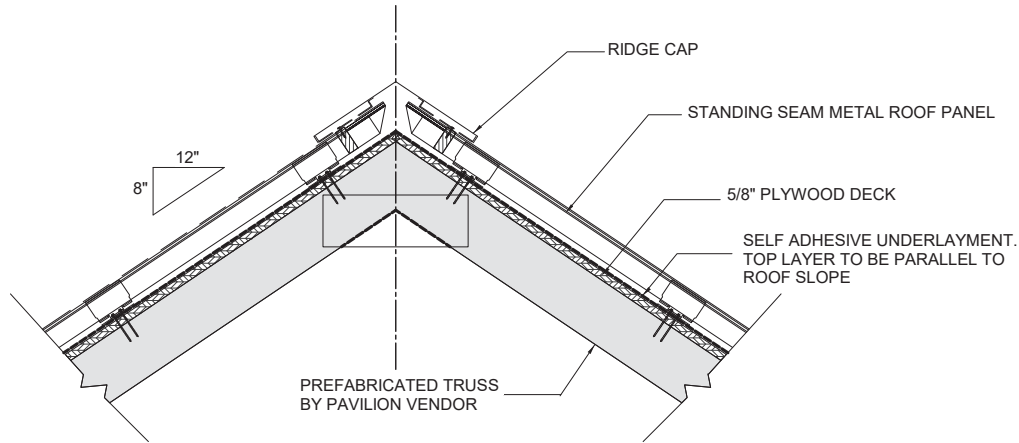
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



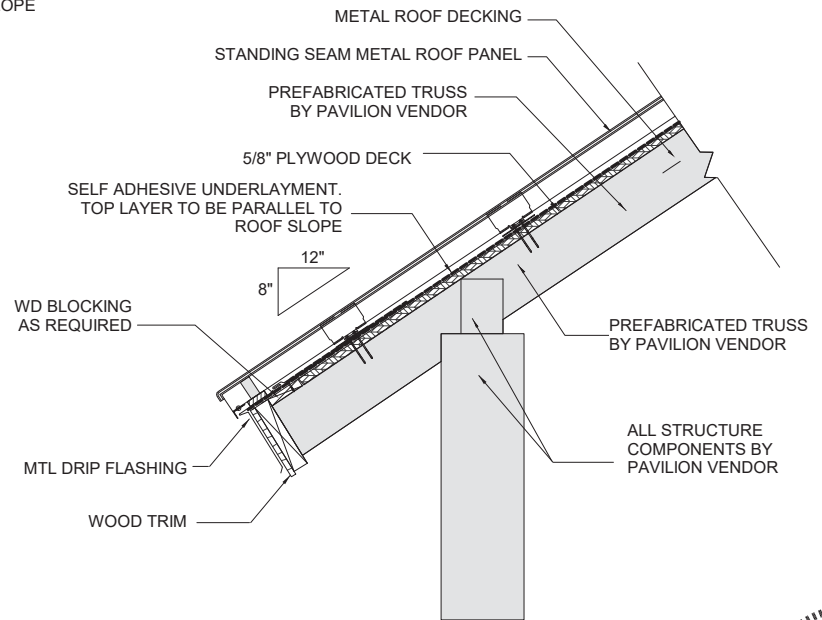
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.
PICNIC PAVILION		AP501
		SHEET NO.

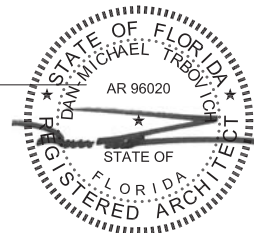
P:\1-10 Rest Area Improvements (19-049) GA14 - Drawings\A - Active Drawings\1 - B+P\Local Files\DD\LOCAL\1-10 Rest_LOCAL_DD.rvt



1 Pavilion Roof Detail (Ridge)
1" = 1'-0"

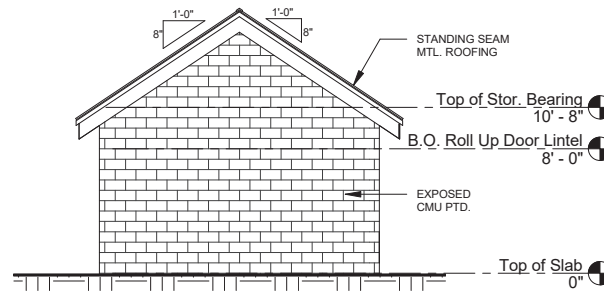


2 Pavilion Roof Detail (Eave)
1" = 1'-0"

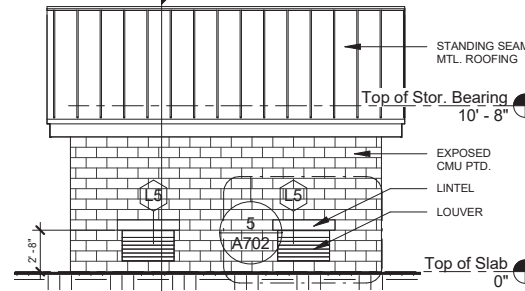


REVISIONS						PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
								AP502	
						PICNIC PAVILION DETAILS		SHEET NO.	

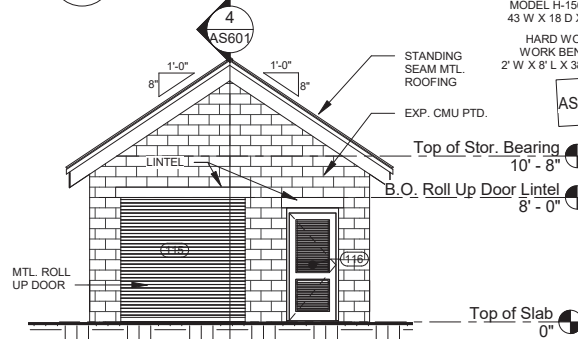
 BORRELLI + PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIORS 720 Tamiami Trail, Suite 100, St. Petersburg, FL 33706-4118 Tel: 727.478.1111 Fax: 727.478.1112 www.borrellipartners.com			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
			ROAD NO. COUNTY FINANCIAL PROJECT ID			SR 8 COLUMBIA 438609-1-52-01		AP502	



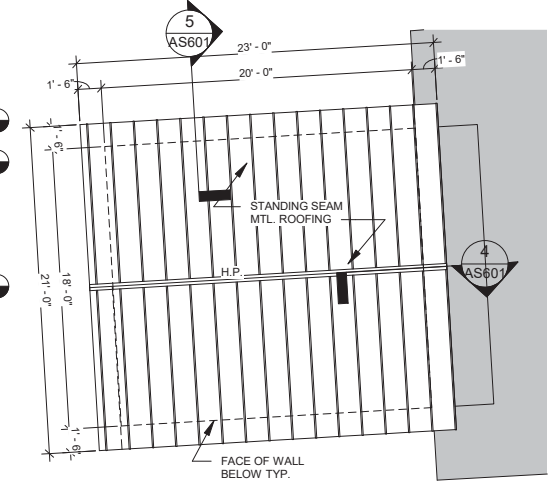
1 STO. RM. REAR ELEV.
1/8" = 1'-0"



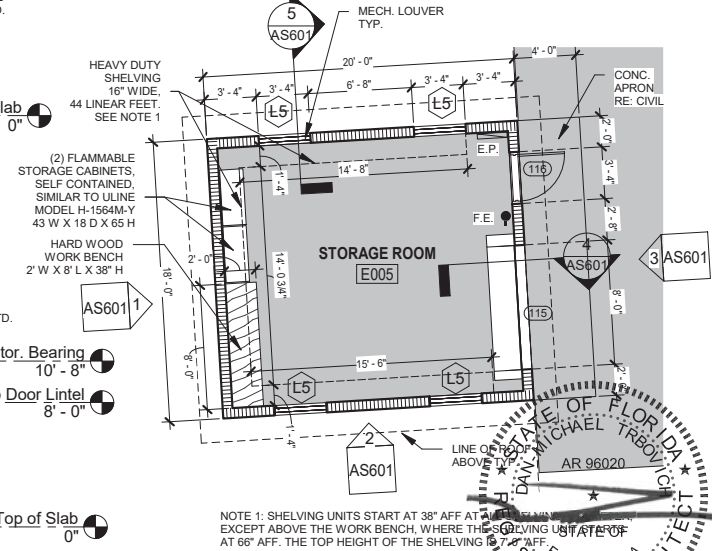
2 STO. RM. TYP. SIDE ELEV.
1/8" = 1'-0"



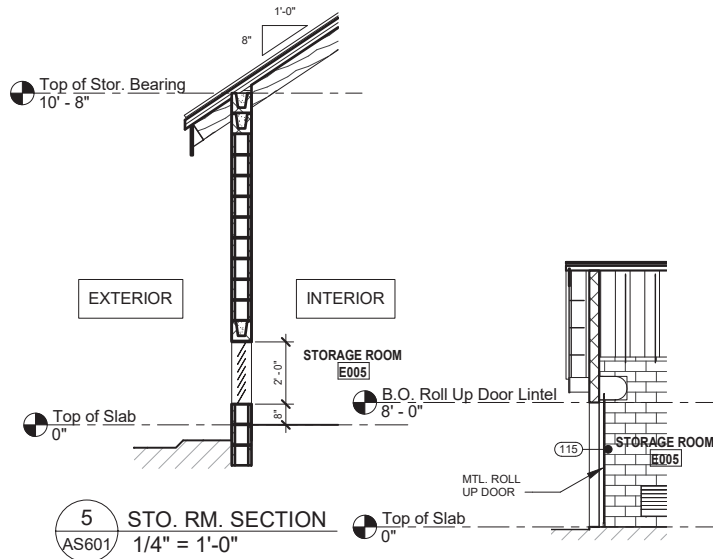
3 STO. RM. FRONT ELEV.
1/8" = 1'-0"



6 STORAGE ROOM ROOF PLAN
1/8" = 1'-0"



7 STORAGE ROOM FLOOR PLAN
1/8" = 1'-0"



5 STO. RM. SECTION
1/4" = 1'-0"

4 STOR. RM. SECTION
1/8" = 1'-0"

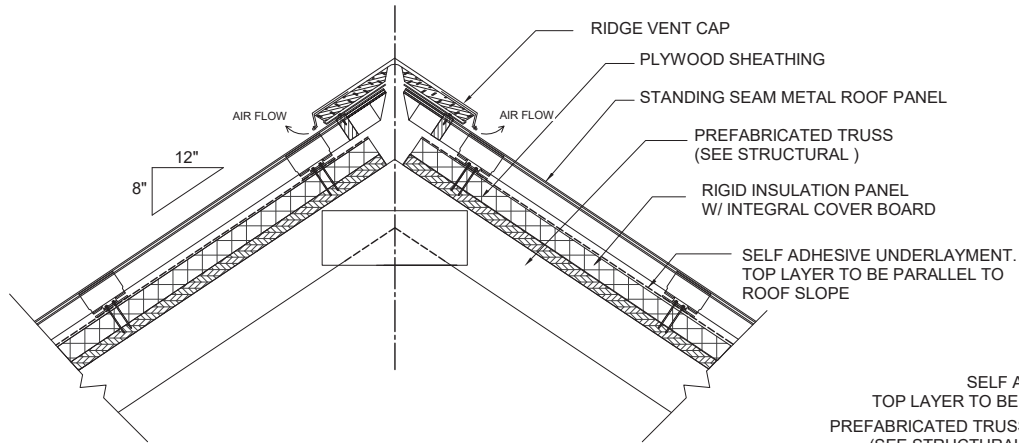
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



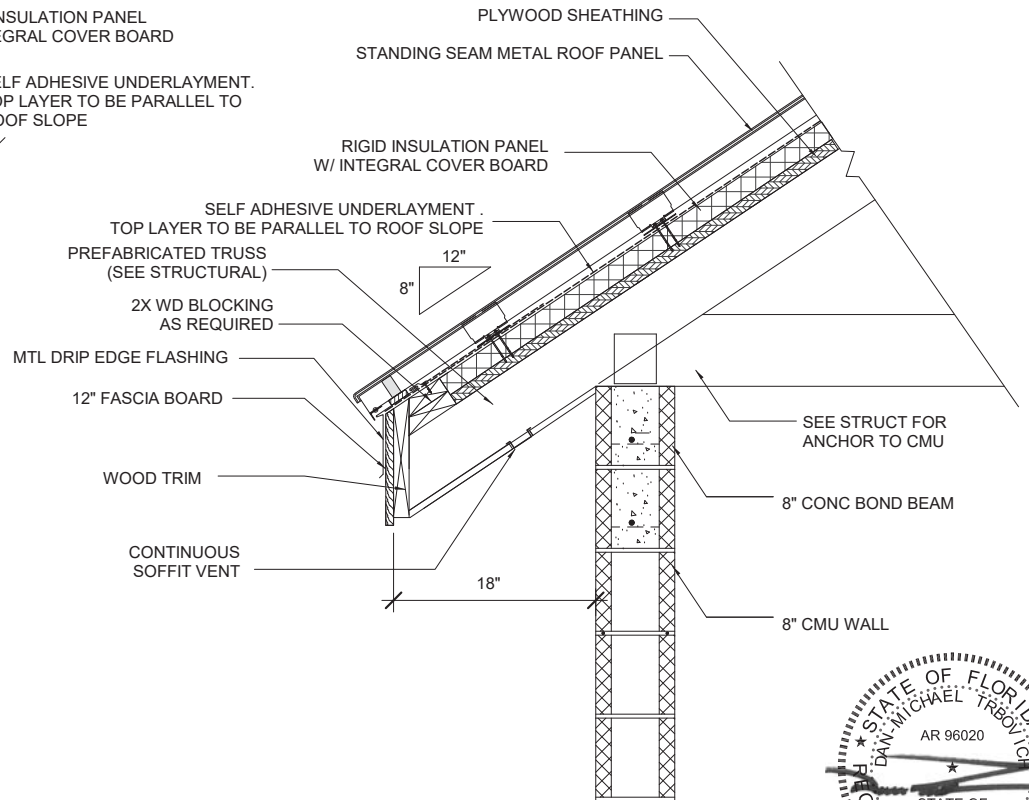
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA	AS601
STORAGE BUILDING	SHEET NO.

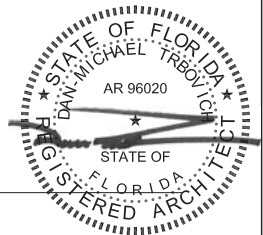
P:\1-10 Rest Area Improvements (19-049) GAI4 - Drawings\A - Active Drawings\1 - B+P\Local Files\DD\LOCAL\1-10 Rest_LOCAL_DD.rvt



1 Storage Bldng Roof Detail (Ridge)
AS604 1" = 1'-0"

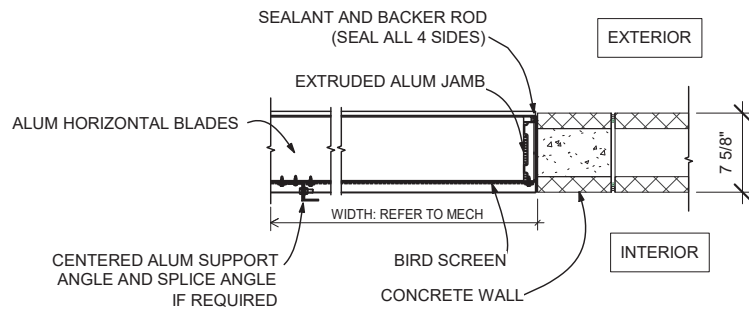


2 Storage Bldng Roof Detail (Eave)
AS604 1" = 1'-0"

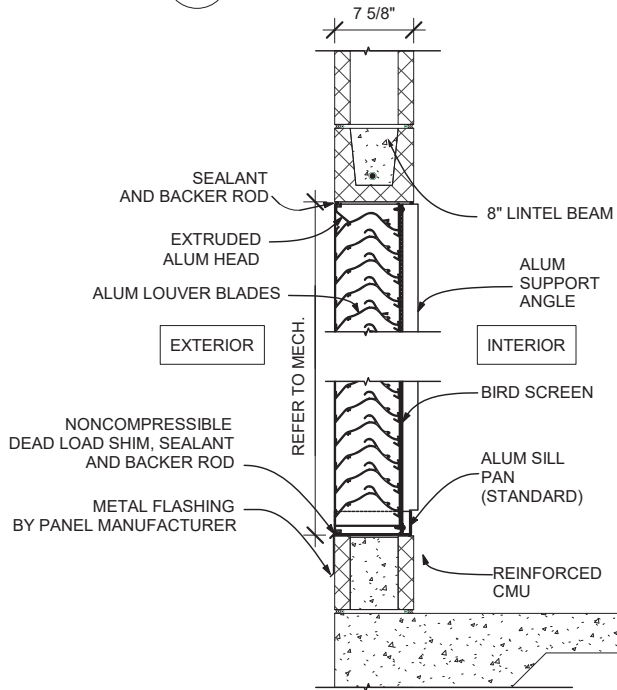


						<div><div></div></div> PROJECT NORTH		100% CONSTRUCTION DOCUMENTS			
REVISIONS						DRAWING NO. AS604					
DATE	BY	DESCRIPTION		DATE	BY					DESCRIPTION	
						SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA					
<div><div><div></div></div><div><div>BORRELLI + PARTNERS</div><div>ARCHITECTURE PLANNING LANDSCAPE INTERIORS</div><div>720 Vesper Street, Orlando FL 32804 407.616.1538 Fax 407.616.1542</div><div><div>Copyright: This drawing is the property of BORRELLI + PARTNERS. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM BORRELLI + PARTNERS.</div></div></div></div>						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		STORAGE BUILDING - ROOF DETAILS			
						ROAD NO.					
						SR 8		COLUMBIA	438609-1-52-01		

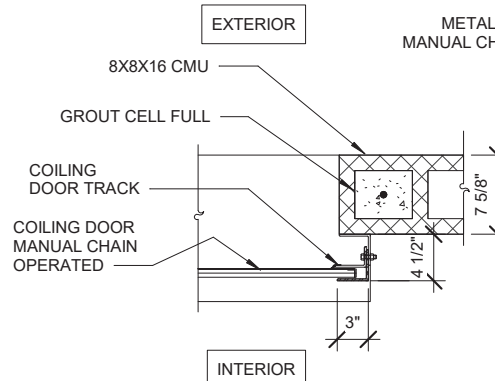
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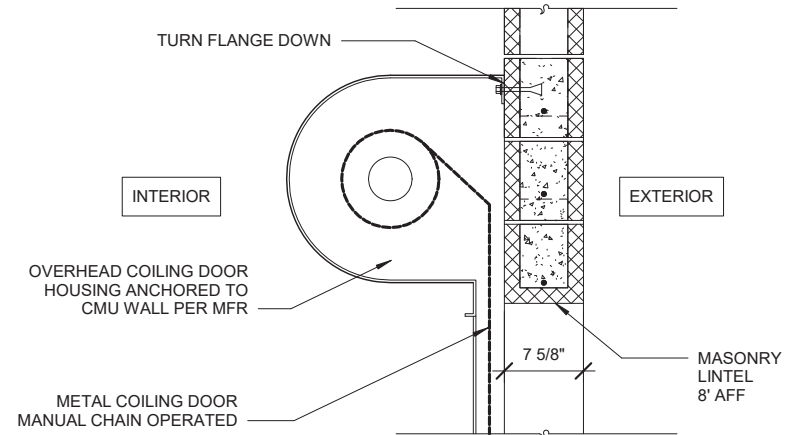
2 Louver Detail (Jamb)
AS605 1" = 1'-0"



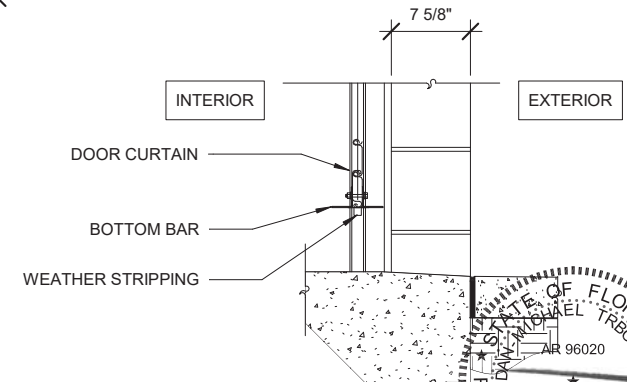
1 Louver Detail (Head and Sill)
AS605 1" = 1'-0"



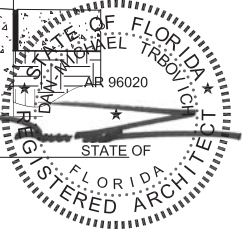
5 Coiling Door Det. (Jamb)
AS605 1" = 1'-0"



3 Coiling Door Det. (Head)
AS605 1" = 1'-0"



4 Coiling Door Det. (Sill)
AS605 1" = 1'-0"



PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
SR 8 (I-10) WESTBOUND - (COLUMBIA COUNTY) REST AREA		DRAWING NO.	AS605
STORAGE BUILDING - DOOR AND LOUVER DETAILS		SHEET NO.	

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ARCHITECTURE PLANNING LANDSCAPE INTERIORS
720 Tamiami Trail, Suite 100, Naples, FL 34102-4100
TEL: 239.438.1111 FAX: 239.438.1112
WWW.BORRELLI-PARTNERS.COM

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

GENERAL CONDITIONS

1. ALL WORK SHALL COMPLY WITH FLORIDA BUILDING CODE (FBC) 2017, AISC MANUAL OF STEEL CONSTRUCTION, ACI BUILDING CODE, AWS CODE, ASTM STANDARDS AND ANY OTHER APPLICABLE CODES, RULES AND REGULATIONS BY AGENCIES HAVING JURISDICTIONS. WHERE CODES OVERLAP, COMPLY WITH THE MORE STRINGENT REQUIREMENTS.
2. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
3. CONTRACTOR IS TO DISPOSE OF ALL DEMOLITION MATERIALS AND LEAVE THE WORK IN A READY TO USE CONDITION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, LABOR PROCEDURES AND SAFETY PRECAUTIONS FOR COMPLETING THE WORK.
5. CONTRACTOR IS RESPONSIBLE FOR ALL WORK DURING CONSTRUCTION UNTIL FINAL APPROVAL BY ARCHITECT, OWNER AND LOCAL OFFICIALS.
6. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ANY EXISTING UTILITIES ON OR ADJACENT TO PROPERTY.
7. WHERE SPECIFIC MANUFACTURER'S PRODUCT IS CALLED OUT, ALL MATERIALS AND WORK MUST COMPLY WITH THE MANUFACTURER'S STRICT RECOMMENDATIONS FOR INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN INSTRUCTIONS AND TO THEN FOLLOW THEM.
8. WHERE A NAME BRAND IS NOT CALLED OUT, THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS AND/OR PRODUCT INFORMATION FOR ARCHITECT/ENGINEER REVIEW AND APPROVAL. MINOR ITEMS IN THE WORK ARE NOT REVIEWED. CONTRACTOR IS TO USE QUALITY AND QUANTITY THAT IS STANDARD TO THE TRADE.
9. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ANCHORED, SUPPORTED AND EMBEDDED ITEMS WHICH AFFECT THE STRUCTURAL WORK. VERIFY DETAILS AND DIMENSIONS WITH EQUIPMENT PURCHASED.
10. COORDINATE SIZES AND LOCATIONS OF OPENINGS IN FLOORS, WALLS AND ROOF WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS.
11. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD.
12. COMPONENTS AND SYSTEMS DELEGATED TO A SPECIALTY ENGINEER SHALL CONFORM TO THE DESIGNER OF RECORD'S DESIGN INTENT AND SHALL NOT DEVIATE IN REQUIREMENTS WITHOUT PRIOR WRITTEN ACCEPTANCE FROM THE DESIGNER OF RECORD.

DESIGN CRITERIA

1. FLORIDA BUILDING CODE 2017.
2. DESIGN LOADS:
DEAD LOAD (ROOF): 20 PSF
LIVE LOAD (ROOF): 20 PSF
3. STRUCTURAL STEEL IS DESIGNED PER THE ALLOWABLE STRESS DESIGN (ASD) METHOD.
4. REINFORCED CONCRETE IS DESIGNED PER THE STRENGTH DESIGN METHOD.
5. REINFORCED CONCRETE MASONRY IS DESIGNED PER THE WORKING STRESS METHOD.
6. STRUCTURAL LUMBER IS DESIGNED PER THE ALLOWABLE STRESS DESIGN (ASD) METHOD.
7. BUILDING IS NOT DESIGNED FOR ADDITIONAL HORIZONTAL OR VERTICAL EXTENSIONS.
8. SEISMIC DESIGN CRITERIA:
IMPORTANCE FACTOR = 1.0
SS = 8.6%
SI = 5.1%
SITE CLASS = D (ASSUMED)
SDS = 9.2%
SDI = 8.2%
SEISMIC DESIGN CATEGORY = B

WIND LOADS

ULTIMATE DESIGN WIND SPEED:	120 MPH
RISK CATEGORY	II
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT: ENCLOSED (TYPICAL) PARTIALLY ENCLOSED (LOBBY) OPEN (PAVILIONS)	±0.18 ±0.55 0.00
SEE WIND LOAD TABLES ON S-301 FOR ADDITIONAL INFORMATION.	

SHOP DRAWING SUBMITTALS

1. SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ALL STRUCTURAL FRAMING, ELEMENTS, COMPONENTS, AND SYSTEMS INDICATED ON THE STRUCTURAL DRAWINGS. SHOP DRAWING SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
- A. CONCRETE MIX DESIGNS
- B. CONCRETE FOUNDATION REINFORCING SUBMITTALS
- C. CONCRETE AND MASONRY REINFORCEMENT SUBMITTALS W/ ELEVATION DRAWINGS CLEARLY INDICATING REINFORCING, SPlicing, AND LOCATION OF ALL CONCRETE AND MASONRY REINFORCEMENT
- D. STRUCTURAL STEEL SUBMITTALS
- E. STEEL DECK SUBMITTALS
- F. LIGHT GAGE STEEL ROOF TRUSSES (*)
- G. TIMBER ROOF TRUSSES (*)
- H. PRE-FABRICATED CANOPY AND AWNING STRUCTURES, DECORATIVE BRACKETS, AND OTHER ARCHITECTURAL COMPONENTS (*)
- ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
2. SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER FOR COMPLIANCE WITH DESIGN INTENT AND FOR GENERAL CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING AND CORRELATING QUANTITIES, DIMENSIONS, ELEVATIONS, AND LENGTHS, FOR SELECTING FABRICATION PROCESSES, FOR SELECTING METHODS OF CONSTRUCTION, FOR COORDINATING SUB TRADES AND FOR PERFORMING WORK IN A SAFE MANNER.
3. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTING THE DRAWINGS TO THE ARCHITECT ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL BE MARKED WITH A REVIEW STAMP FROM THE CONTRACTOR INDICATING REVIEW DISPOSITION AND SHALL BE DATED AND INITIALED. SHOP DRAWINGS THAT HAVE NOT BEEN REVIEWED, STAMPED, DATED AND INITIALED WILL BE CONSIDERED NOT REVIEWED BY THE CONTRACTOR AND SHALL BE RETURNED NOT REVIEWED AND UNCHECKED BY THE STRUCTURAL ENGINEER.
4. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR DELAYS CAUSED DUE TO THE REJECTION OF INCOMPLETE SUBMITTALS, SUBMITTALS RETURNED DUE TO THE CONTRACTOR'S FAILURE TO REVIEW DOCUMENTS PRIOR TO RECEIPT BY THE STRUCTURAL ENGINEER, AND FOR THE ADDITIONAL TIME REQUIRED BY THE CONTRACTOR'S SUB TRADES TO REVISE AND RE-SUBMIT THE DRAWINGS AND FOR THE STRUCTURAL ENGINEER TO PERFORM ADDITIONAL REVIEWS OF NON-CONFORMING SUBMITTALS.
5. UPON RECEIPT OF SHOP DRAWING SUBMITTALS FROM THE CONTRACTOR THAT HAVE BEEN REVIEWED, STAMPED, DATED, AND INITIALED BY THE CONTRACTOR, THE ENGINEER SHALL BEGIN REVIEW OF THE RECEIVED SUBMITTALS. THE CONTRACTOR SHALL ALLOW FOURTEEN (14) WORKING DAYS FOR SUBMITTAL REVIEW BY THE STRUCTURAL ENGINEER FROM RECEIPT OF SHOP DRAWINGS. THE CONTRACTOR SHALL FURTHER ALLOW TEN (10) WORKING DAYS FROM RECEIPT OF SHOP DRAWING RE-SUBMITTALS FOR REVIEW BY THE STRUCTURAL ENGINEER.
6. THE STRUCTURAL ENGINEER'S OBLIGATIONS TO REVIEW SHOP DRAWINGS AND OTHER SUBMITTALS AND TO RETURN THEM IN A TIMELY MANNER ARE CONDITIONED UPON THE PRIOR REVIEW AND APPROVAL OF THE SHOP DRAWINGS OR SUBMITTALS BY THE CONTRACTOR AS REQUIRED IN THE CONSTRUCTION CONTRACT AND THE CONTRACTOR'S SUBMITTAL OF THE SHOP DRAWINGS AND OTHER SUBMITTALS IN ACCORDANCE WITH A WRITTEN SCHEDULE DISTRIBUTED IN ADVANCE TO THE ENGINEER IDENTIFYING THE DATES FOR THE SUBMITTAL OF THE VARIOUS SHOP DRAWINGS AND SUBMITTALS.
7. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR MATERIALS THAT ARE FABRICATED, DELIVERED, AND INSTALLED AT THE SITE WITHOUT A SET OF SHOP SUBMITTALS THAT HAVE BEEN REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER. COSTS ASSOCIATED WITH THE REMOVAL OF UNAPPROVED MATERIALS AND THE DELAYS ASSOCIATED WITH THE REPAIR, RECONFIGURATION, AND/OR REMOVAL OF SUCH MATERIALS SHALL NOT BE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER.
8. SHOP DRAWINGS REVIEWED BY THE STRUCTURAL ENGINEER AND RETURNED WITH A MARK OF 'REJECTED' OR 'REVISE AND RESUBMIT' SHALL BE RE-SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER. REVISIONS MADE TO SHOP DRAWINGS SHALL BE CLEARLY MARKED AND THE PURPOSE FOR THE RE-SUBMISSION SHALL BE CLEARLY NOTED ON THE SHOP DRAWING TRANSMITTAL. REVISIONS SHALL BE ASSIGNED A SEQUENTIAL REVISION NUMBER.
9. THE CONTRACT DOCUMENTS SHALL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

STRUCTURAL ENGINEERING ABBREVIATIONS

A.B	ANCHOR BOLT	INT.	INTERIOR
ABV.	ABOVE	JST.	JOIST
ADDL	ADDITIONAL	JT.	JOINT
ADJ.	ADJACENT	K	KIPS
KLF	ALTERNATE	KLF	KIPS PER LINEAR FOOT
APPROX.	APPROXIMATE	KSI	KIPS PER SQUARE INCH
ARCH.	ARCHITECT /URAL	KSF	KIPS PER SQUARE FOOT
B-/BOT.	BOTTOM	LB	POUND
BLDG.	BUILDING	L	LEFT END
BLW.	BELOW	LL	LIVE LOAD
BM	BEAM	LLBB	LONG LEG BACK TO BACK
B.P.	BASE PLATE	LLH	LONG LEG HORIZONTAL
BRG.	BEARING	LLV	LONG LEG VERTICAL
BRDG.	BRIDGING	L.P.	LOW POINT
BTWN	BETWEEN	L.W.	LONG WAY /LIGHT WEIGHT
CANT.	CANTILEVER	MATL.	MATERIAL
CAP.	CAPACITY	MAX.	MAXIMUM
C.I.F.	CAST IN PLACE	M.B.S.	METAL BUILDING SYSTEM
C.MECH.	CONTROL /CONSTRUCTION JOINT	MECH.	MECHANICAL
CLG.	CEILING	MEZZ.	MEZZANINE
CLR.	CLEAR	MFR.	MANUFACTURER
CMU	CONCRETE MASONRY UNIT	MIN.	MINIMUM
COL.	COLUMN	MISC.	MISCELLANEOUS
COMP.	COMPOSITE	N.F.	NEAR FACE
CONC.	CONCRETE	N.I.C.	NOT IN CONTRACT
CONN.	CONNECT -ED/-ION	NO.	NUMBER
CONST.	CONSTRUCT -ION	N.T.S	NOT TO SCALE
CONT.	CONTINUE /OUS /ATION	O.C.	ON CENTER
CONTR.	CONTRACTOR	O.D.	OUTSIDE DIAMETER
COORD.	COORDINATE	O.F.	OUTSIDE FACE
CTR.	CENTER	OPNG.	OPENING
DBL	DOUBLE	OPP.	OPPOSITE
DEP.	DEPRESSION	PAR.	PARALLEL
DIAM.	DIAMETER	PERP.	PERPENDICULAR
DIAG.	DIAGONAL	PL	PLATE
DIM.	DIMENSION	PLF	POUNDS PER LINEAR FOOT
DN.	DOWN	PSF	POUNDS PER SQUARE FOOT
DL	DEAD LOAD	PSI	POUNDS PER SQUARE INCH
D.P.	DRILLED PIER	R.E.	RIGHT END
DWG	DRAWING	REINF.	REINFORCE /ED/HNG/MENT
DTL	DETAIL	REM.	REMAINDER
DWL	DOWEL	REQ'D	REQUIRED
EA.	EACH	RET.	RETAINING
E.E.	EACH END	REV.	REVERSE
E.F.	EACH FACE	SCHED.	SCHEDULE
E.J.	EXPANSION JOINT	SECT.	SECTION
EL.	ELEVATION	SF	SQUARE FOOT
ELEC.	ELECTRICAL	SM.	SIMILAR
ELEV.	ELEVATION /ELEVATOR	SP.	SPACES
EMBED.	EMBEDMENT	SPEC.	SPECIFICATIONS
ENGR.	ENGINEER	SQ.	SQUARE
E.O.D.	EDGE OF DECK	STD.	STANDARD
E.O.S.	EDGE OF SLAB	STIFF.	STIFFENERS
EQ.	EQUAL	STR.	STIRRUPS
EQUIP.	EQUIPMENT	STL.	STEEL
E.W.	EACH WAY	STRUCT.	STRUCTURAL
EXIST.	EXISTING	S.W.	SHORT WAY
EXP.	EXPANSION	SYM.	SYMMETRICAL
FDN.	FOUNDATION	T/-T	TOP OF -TOP
FIN.	FINISH	TE	TURNED DOWN SLAB EDGE
F.F.	FAR FACE	TEMP.	TEMPERATURE
FLR.	FLOOR	T.O.S.	TOP OF SLAB
F.O.M.	FACE OF MASONRY	TYP.	TYPICAL
FRMG.	FRAMING	T&B	TOP AND BOTTOM
FT.	FEET	U.N.Q.	UNLESS NOTED OTHERWISE
FTG.	FOOTING	VERT.	VERTICAL
GA.	GAGE	V.I.F.	VERIFY IN FIELD
GALV.	GALVANIZED	W.F.	WIDE FLANGE
GB	GRADE BEAM	W.P.	WORK POINT
H.P.	HIGH POINT	WT.	WEIGHT
HORIZ.	HORIZONTAL	W.W.R.	WELDED WIRE REINFORCEMENT
H.S.	HIGH STRENGTH	W/	WITH
I.D.	INSIDE DIAMETER	W/O	WITHOUT
I.F.	INSIDE FACE	&	AND
IN.	INCHES	@	AT
		#	NUMBER

100% CONSTRUCTION DOCUMENTS

REVISIONS						GAI CONSULTANTS, INC. 600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS	DRAWING NO. S-001
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
								STRUCTURAL GENERAL NOTES 1	SHEET NO. 1 OF 26

- INSPECTIONS TO BE PERFORMED BY THE BUILDING OFFICIAL.
 - A. FOUNDATION INSPECTION AFTER EXCAVATION AND SOIL PREPARATION, BUT PRIOR TO PLACING REINFORCEMENT. AGAIN, AFTER REINFORCEMENT IS PLACED AND PRIOR TO CONCRETE PLACEMENT.
 - B. CONCRETE SLAB-ON-GRADE/UNDERFLOOR INSPECTION SHALL BE MADE AFTER ALL UNDERFLOOR EQUIPMENT IS IN PLACE BUT PRIOR TO CONCRETE PLACEMENT.
 - C. FRAMING INSPECTION SHALL BE MADE AFTER ALL ROUGH MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT IS IN PLACE, BUT PRIOR TO FIREPROOFING OR WALL COVERING IS INSTALLED.
 - D. FINAL INSPECTION SHALL BE MADE WHEN THE CONTRACTOR HAD COMPLETED THE BUILDING AND IT IS READY FOR OCCUPANCY.
2. THE OWNER WILL PROVIDE QUALIFIED PERSONNEL TO PERFORM THE REQUIRED SPECIAL INSPECTIONS. THIS DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE DESIGN DRAWINGS. THE ACCEPTANCE OF MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS FOR SPECIAL INSPECTION AND FOR QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (IBC), CHAPTER 17 OF THE FLORIDA BUILDING CODE (FBC), AND LOCAL ENFORCEMENT AGENCY. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR 24 IN ADVANCE OF ALL INSPECTIONS AND ALL CONTRACTORS ARE REQUIRED TO ACCOMMODATE AND COOPERATE WITH TESTING AND INSPECTION PERSONNEL.
3. THE SPECIAL INSPECTION PROGRAM WILL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. REPORTS OF THE FINDINGS SHALL BE PROVIDED TO THE ENGINEER.
 - A. EXCAVATIONS, GRADING, AND EARTH FILL SHALL BE INSPECTED IN ACCORDANCE WITH THE CODE.
 - B. FOUNDATION INSPECTION ACCORDING TO THE PLACEMENT OF FOUNDATIONS AND SLABS-ON-GRADE. ALL EMBEDDED BOLTS SHALL BE INSPECTED, ALL CONCRETE AND MASONRY REINFORCING STEEL SHALL BE INSPECTED PRIOR TO CONCRETE/GROUT PLACEMENT.
 - D. VERIFY USE OF REQUIRED CONCRETE DESIGN MIXES.
 - E. FABRICATE CONCRETE SPECIMENS FOR STRENGTH TESTS, PERFORM COMPRESSIVE AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF CONCRETE PRIOR TO PLACEMENT.
 - F. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURES AND TECHNIQUES.
 - G. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBERS BEING FORMED.
 - H. FRAMING INSPECTIONS DURING THE ERECTION OF ALL STEEL FRAMING MEMBERS, INSPECTION OF ALL DECKING PLACEMENT, AND ATTACHMENTS.
 - I. HIGH STRENGTH BOLTS SHALL BE INSPECTED DURING INSTALLATION AND TIGHTENING ACCORDANCE WITH THE CODE.
 - J. SPRAY-APPLIED FIRE PROOFING INSPECTIONS SHALL BE MADE IN ACCORDANCE WITH THE CODE.
 - K. ALL EPOXY CONNECTION HOLES SHALL BE INSPECTED AND BE DUST FREE.
 - L. ALL WELDS SHALL BE INSPECTED BY A CERTIFIED WELD INSPECTOR AT THE OWNER'S EXPENSE.
 - M. PREFABRICATED WOOD STRUCTURAL ELEMENTS AND FASTENING OF WOOD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH THE CODE.
 - N. COLD-FORMED STEEL TRUSS FRAMING, BRACING, CONNECTIONS, AND FASTENING TO SHEAR WALLS. S AND FASTENING OF METAL DECK DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH THE CODE.

1. THE FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE PHASE II GEOTECHNICAL REPORT PREPARED BY ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC., DATED JANUARY 2019. THE DESIGN CALLS FOR 2000 PSF BEARING PRESSURES ARE 2000 PSF (BUILDINGS) AND 1300 PSF (PAVILIONS).
2. SOIL, DEWATERING, AND SITE PREPARATION SHALL BE IN ACCORDANCE WITH THE AFOREMENTIONED REPORT.
3. SOIL SUPPORTED FOUNDATIONS:
 - A. TOP ALLOWABLE SOIL BEARING PRESSURE FOR FOUNDATIONS BEARING ON UNDISTURBED SOIL OR APPROVED ENGINEERED FILL MATERIAL SHALL BE VERIFIED BY A LICENSED SOIL ENGINEER.
 - B. ALL FOUNDATIONS ARE DESIGNED WITH FORMED SIDES. IF EARTH FORMED SIDES ARE APPROVED BY THE ENGINEER, THE TOP 7 1/4" SHALL BE FORMED TO THE DESIGN DIMENSION AND ONE INCH SHALL BE ADDED TO EACH SIDE OF THE EARTH FORMED AREA TO PROVIDE ADEQUATE COVER OVER THE REINFORCING AT THE CONTRACTOR'S EXPENSE.
 - C. REINFORCING SHALL BE SUPPORTED FROM ABOVE OR WITH 3" SBP (WITH BOTTOM PLATE) AT 4'-0" O.C. MAXIMUM FOR ALL FOUNDATION REINFORCING.
4. REMOVE FREE WATER FROM EXCAVATIONS BEFORE PLACING CONCRETE.
5. ALL FOOTING EXCAVATIONS ARE TO BE FINISHED BY HAND.
6. REMOVE EXISTING TOP SOIL, FILL, PAVEMENT OR FOUNDATIONS FROM THE BUILDING AREA.
7. BACKFILL BELOW STRUCTURAL ELEMENTS TO BE A GRANULAR MATERIAL HAVING MAXIMUM SIZE OF 3" AND LESS THAN 12% PASSING THE #200 SIEVE SIZE. FILL TO BE PLACED IN LIFTS OF ONE-FOOT OR LESS COMPACTED TO A MINIMUM OF 100% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D698).
8. DO NOT BACKFILL FOUNDATION WALLS UNTIL THE RESTRAINING SLABS OR BEAMS ARE BRACED TO THE EXISTING WALLS. BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATION.
9. EXTERIOR SLABS SHALL SLOPE AWAY FROM THE STRUCTURE A MINIMUM OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.
10. SLABS-ON-GRADE TO BE PLACED ON COMPACTED SOIL TO 100% OF STANDARD PROCTOR (ASTM D698) AT 4% MOISTURE CONTENT.
11. PROVIDE SOIL POISONING UNDER BUILDINGS FOR TERMITES PROTECTION.

1. THE TERM "DELEGATE ENGINEER" SHALL REFER TO A REGISTERED PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR TO PROVIDE DESIGN AND FABRICATION SUBMITTALS AND CALCULATIONS FOR THE COMPONENTS DELEGATED BY THE STRUCTURAL ENGINEER OF RECORD HEREIN.
2. WHERE NOTED ON THIS SET OF CONSTRUCTION DOCUMENTS AND AS INDICATED BELOW, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A DELEGATED ENGINEER TO PROVIDE SPECIALTY ENGINEERING SERVICES FOR STRUCTURAL BUILDING COMPONENTS. THESE COMPONENTS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
 - A. LIGHT GAUGE STEEL ROOF TRUSSES AND CONNECTION TO SUPPORT STRUCTURE
 - B. TIMBER ROOF TRUSSES
 - C. PRE-FABRICATED PAULOWN, CANOPY AND AWNING STRUCTURES, DECORATIVE BRACKETS, AND OTHER ARCHITECTURAL COMPONENTS
3. THE DELEGATE ENGINEER FOR EACH COMPONENT SHALL BE A REGISTERED PROFESSIONAL ENGINEER CURRENT AND IN GOOD STANDING WITH THE STATE OF FLORIDA WITH A MINIMUM OF FIVE (5) YEARS OF EXPERIENCE IN DESIGN OF THE SPECIFIC COMPONENT.
4. THE DELEGATE ENGINEER SHALL BE THE ENGINEER OF RECORD FOR THE AFOREMENTIONED COMPONENTS AND SHALL SUBMIT SIGNED AND SEALED CALCULATIONS AND DRAWINGS FOR REVIEW BY THE STRUCTURAL ENGINEER.
5. THE DELEGATE ENGINEER SHALL COMPLY WITH THE RESPONSIBILITIES OUTLINED IN THE FLORIDA ADMINISTRATIVE CODE SECTION 61G15-30.000, CALCULATIONS AND DRAWINGS SUBMITTED BY THE DELEGATE ENGINEER FOR REVIEW BY THE ENGINEER SHALL INCLUDE CLEARLY DEFINED DESIGN CRITERIA, DESIGN PROCEDURES, STRUCTURAL LOADS, CODE REQUIREMENTS, RECOMMENDATIONS AND LAYOUTS. DOCUMENTS SHALL BE IN CONFORMANCE WITH PARAGRAPH 6 OF THIS SECTION.
6. THE DELEGATE ENGINEER SHALL ALSO BE RESPONSIBLE FOR GENERATING ERECTION DRAWINGS AND FABRICATION PROCEDURES FOR THE SPECIALTY ENGINEERED COMPONENTS.
7. REVIEW OF CALCULATIONS AND DRAWINGS SUBMITTED BY THE DELEGATE ENGINEER TO THE STRUCTURAL ENGINEER SHALL BE LIMITED TO THE VERIFICATION THAT THE DELEGATE ENGINEER HAS UTILIZED THE DESIGN CRITERIA SPECIFIED AND HAS UNDERSTOOD THE INTENT OF THE DESIGN. THE STRUCTURAL ENGINEER WILL NOT MAKE A DETAILED CHECK OF THE CALCULATIONS AND DESIGN PROCESSES UTILIZED BY THE DELEGATE ENGINEER. THE DESIGNER SHALL BE RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE SPECIALTY COMPONENTS.

1. CONTRACTOR SHALL SUPPLY ALL ITEMS FOR ATTACHING MECHANICAL AND ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE TO RESIST ALL LOADS INCLUDING WIND FORCES. ATTACHMENT SHALL BE MADE SO AS NOT TO OVERSTRESS STRUCTURAL MEMBERS. COORDINATE THE ATTACHMENTS AND LOADINGS OF THE EQUIPMENT WITH THE STRUCTURAL SHOP DRAWINGS. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
2. SUBSTITUTION OF EXPANSION ANCHORS FOR ADHESIVE ANCHORS OR EMBEDDED ANCHORS SHOWN ON THE DRAWINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE.
3. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SERVICES AS PART OF THE CONSTRUCTION SCOPE OF WORK:
 - A. PROVIDE TEMPORARY BRACING AND SHORING TO PREVENT EXCESSIVE DEFLECTIONS AND DAMAGE DURING CONSTRUCTION. DESIGN OF TEMPORARY BRACING AND SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS INDICATED IN SECTION 010100.
 - B. SUPPORT OF CEILING SYSTEMS, FOLDING PARTITIONS, TOILET PARTITIONS, COUNTERS, EQUIPMENT, AND WINDOW SYSTEMS AS DEFINED IN THE ARCHITECTURAL PLANS.

										100% CONSTRUCTION DOCUMENTS		
REVISIONS						<div>GAI CONSULTANTS, INC.</div> <div>600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066</div>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							S-002
							STRUCTURAL GENERAL NOTES 2			SHEET NO.		
							ROAD NO.	COUNTY	FINANCIAL PROJECT ID	2 OF 26		

- CONFORM TO ACI BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES ACI 530/ASCE 5 AND TO ACI SPECIFICATIONS FOR MASONRY ACI 530.1 / ASCE 6. LATEST EDITION REFERENCED IN BUILDING CODE.
2. CONCRETE MASONRY UNITS (CMU) MATERIALS SHALL BE:
 - A. ALL CONCRETE MASONRY UNITS (CMU) SHALL BE TWO CELL LIGHTWEIGHT AGGREGATE UNITS WITH A SPECIFIED MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON NET AREA AT 28 DAYS CONFORMING TO ASTM C90. CMU LOCATED BELOW GRADE, SHALL BE NORMAL WEIGHT AGGREGATE UNITS.
 - B. ALL MORTAR SHALL BE TYPE "S" OR "M" WITH A MINIMUM MORTAR COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS CONFORMING TO ASTM C270. THE MINIMUM COMPRESSIVE STRENGTH (F_m) OF A PRISM ASSEMBLED OF CMU AND MORTAR SHALL BE 1500 PSI AT 28 DAYS ON THE NET AREA.
 - C. CMU GROUT SHALL CONFORM TO ASTM C476 WITH 3/8" AGGREGATE WITH THE FOLLOWING REQUIREMENTS: MIN FC=3000 PSI, MIN CEMENT=611 PCY, MAX W/C RATIO=0.65 AND SHALL HAVE A SLUMP OF BETWEEN 8" AND 10". PROVIDE CLEAN OUTS AS SHOWN ON DWGS. PUMP 4'-0" MAXIMUM GROUT LIFTS WITH 60 MINUTE DELAY BETWEEN LIFTS.
 - D. REINF STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615, GR 60.
 - E. JOINT REINF STEEL SHALL MEET THE REQUIREMENTS OF ASTM A82 WIRE WITH A MINIMUM YIELD GREATER THAN 70 KSI. LONGITUDINAL WIRES SHALL BE 9 GA. (0.1483" DIA) WITH LADDER TYPE WIRES CONNECTED AT 12" CENTERS. REINF SHALL BE MILL GALVANIZED PER ASTM A641, CLASS 3.
 - F. WHERE CONCRETE BEAMS ARE INSTALLED IN CONCRETE BLOCK WALL, SUPPORT CONCRETE WITH 6" WIDE CONTINUOUS STRIPS OF 1/8 SQUARE MESH SOFFIT SCREENING OF PUR-O-STOP OR EQUIVALENT OFFERED OVER THE BLOCK WORK. USE OF ROOFING FELT STRIPS WILL NOT BE PERMITTED.
3. HORIZONTAL WALL REINFORCEMENT
 - A. PROVIDE BOND BEAM COURSES IN ALL WALLS AT THE TOP OF WALL OR PARAPET AND AT BEARING LOCATIONS. BOND BEAMS SHALL BE REINFORCED AS SHOWN ON PLANS AND DETAILS. ALL INTERIOR STRUCTURAL WALLS (BEAR AND/OR BEARING) SHALL HAVE INTERMEDIATE BOND BEAMS LOCATED AT THE SAME LEVELS AS EXTERIOR BOND BEAMS.
 - B. PROVIDE BOND BEAMS AT INTERMEDIATE LOCATIONS IN EVERY SIXTH COURSE (BETWEEN 12" AND 16" MAX).
4. VERTICAL WALL REINFORCEMENT
 - A. PROVIDE VERTICAL REINFORCEMENT (NORMAL REINF) IN GROUT FILLED CELLS IN ALL WALLS AS SHOWN ON PLANS AND SCHEDULES.
 - B. PROVIDE AN ADDITIONAL VERTICAL REINFORCEMENT BAR WITH DOWELS INTO SUPPORTING MEMBERS, WITH SAME SIZE AND LENGTH AS THE NORMAL REINF BAR, AT THE FOLLOWING LOCATIONS UNO:
 1. ON EACH SIDE OF A CONTROL OR ISOLATION JOINT
 2. AT INTERSECTION OF WALLS
 3. EACH SIDE OF A WALL OPENINGS PER MASONRY DETAILS
 4. AT EACH END OF WALLS
 5. AT EACH BEAM BEARING
 - C. VERTICAL REINFORCEMENT SHALL EXTEND CONTINUOUSLY FROM THE TOP OF THE SUPPORTING MEMBER TO EMBED AT LEAST 6" INTO THE TOP BOND BEAM. THERE SHALL BE A DOWEL, CAST INTEGRAL WITH THE SUPPORTING MEMBER, FOR EACH VERTICAL REINFORCEMENT BAR EXCEPT AS NOTED.
5. REINFORCEMENT SHALL MEET THE FOLLOWING LAP, SPLICE AND EMBEDMENT REQUIREMENTS:

REIN BAR SIZE	LAP OR SPICE LENGTH IN WALL	FOUNDATION EMBEMENT WITH HOOK INTO FOUND.	DOWELS STRAIGHT EMBEMENT INTO FOUND.
JOINT	16"	N/A	N/A
4	24"	8"	15"
5	30"	10"	19"
6	36"	12"	23"
7	42"	14"	27"
8	48"	16"	30"

6. CELLS WHICH CONTAIN REINF STEEL (VERT CELL, BOND BEAMS, LINTELS AND PILASTERS) SHALL BE FILLED SOLIDLY WITH GROUT AND UNITS SHALL BE LAID WITH FULL BED JOINTS AGAINST CELLS.
7. REINFORCING BARS TO BE FILLED WITH GROUT SHALL BE SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERT CELL.
8. BOND BEAM AND JOINT REINF FOR INTERIOR AND EXTERIOR WALLS SHALL BE CONTINUOUS THROUGHOUT, EXCEPT AT CONTROL AND ISOLATION JOINTS. IT SHALL BE AS FOLLOWS:
 - A. INTERMEDIATE (LADDER) REINF SHALL BE DISCONTINUOUS AT CONTROL JOINTS. REINFORCEMENT IN THE BEAMS AT FLOOR AND ROOF DIAPHRAGM LEVELS SHALL BE CONTINUOUS.
 - B. AT ISOLATION JOINTS, ALL REINF SHALL BE DISCONTINUOUS.
9. BARS AROUND PERIMETER OF OPNGS SHALL EXTEND NOT LESS THAN 40 BAR DIA OR 24", WHICHEVER IS LARGER. BEYOND THE CORNER OF THE OPNG, JAMB BARS SHALL BE THE SAME SIZE AND NUMBER AS THE NORMAL VERT REINF.

SEE PLANS AND SCHED FOR LINTELS OVER OPNGS.

- CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS (LATEST EDITIONS):
 - A. ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
 - B. ACI 317 "STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".
 - C. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
 - D. ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE".
 - E. ACI 305 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING".
 - F. ACI 311 "RECOMMENDED PRACTICE FOR CONCRETE INSPECTION".
 - G. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
 - H. ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
 - I. ACI MANUAL OF CONCRETE PRACTICE-PARTS 1 THRU 5 AS APPROPRIATE TO TYPE OF CONSTRUCTION.
 - J. CRSI MANUAL OF STANDARD PRACTICES FOR CONCRETE FORMWORK.
- CONCRETE SHALL BE NORMAL WEIGHT UNO AND SHALL CONFORM TO ASTM C-94 IN ADDITION TO THE FOLLOWING:
 - A. PORTLAND CEMENT SHALL MEET ASTM C-150 TYPE/II.
 - B. AGGREGATES FOR SLAB ON GRADE SHALL MEET ASTM C-33 (1 1/2" MAX).
 - B2. AGGREGATES ELSEWHERE SHALL MEET ASTM C-33 (1" MAX).
 - C. AIR ENTRAINING AGENT SHALL MEET ASTM C-260.
 - D. WATER REDUCING AGENT SHALL MEET ASTM C-494.
 - E. CALCIUM CHLORIDE SHALL NOT BE USED IN THE MIX.
 - F. CURING COMPOUND SHALL MEET ASTM C309 TYPE 1 UNO.
- CONCRETE SHALL HAVE THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS AS INDICATED BELOW. MIX DESIGNS SHALL BE APPROVED BY THE ENGINEER BEFORE USE.
 - A. FLY ASH, SUBSTITUTING FOR CEMENT, SHALL NOT EXCEED 25% BY WEIGHT FOR MASS CONCRETE PLACEMENT AS DEFINED BY ASTM C207 FLY ASH.
 - B. FLY ASH, SUBSTITUTING FOR CEMENT, SHALL NOT EXCEED 10% BY WEIGHT FOR FINISH CONCRETE PLACEMENT.
 - C. REINFORCING BARS USED IN CONCRETE SHALL BE GRADE 60 KSI DEFORMED BAR CONFORMING TO ASTM SPECIFICATION A-615. REINFORCEMENT SHALL BE RUST-OIL AND SCALE FREE AND SHALL BE PLACED AND BENT IN ACCORDANCE WITH THE REFERENCED STANDARDS INDICATED IN NOTE 1 OF THIS SECTION.
 - D. SHOP DRAWING FOR REINFORCEMENT LAYOUT, DETAILING, AND PLACING SHALL BE APPROVED BY THE STRUCTUR ENGINEER PRIOR TO FABRICATION, SITE DELIVERY, AND INSTALLATION.
- WELDED WIRE FABRIC TO BE USED FOR CONCRETE REINFORCEMENT WHERE INDICATED SHALL CONFORM TO ASTM A-185 AND SHALL BE FURNISHED IN FLAT SHEET (RATHER THAN ROLLS). FABRIC SHALL BE SUPPORTED ON CHAIRS TO MAINTAIN THE MINIMUM CLEARANCE WITHIN THE CONCRETE AND SHALL BE PLACED IN ACCORDANCE WITH THE REFERENCED STANDARDS INDICATED IN NOTE 1 OF THIS SECTION. MINIMUM LAP SHALL BE TWO PANELS.
- CONCRETE SHALL BE CURED IN ACCORDANCE WITH ACI STANDARDS AND SPECIFICATIONS. A CURING COMPOUND WITH FUGITIVE DYE, THE CONTRACTOR SHALL BE BURN CONCRETE CURING IMMEDIATELY AFTER FINISHING OPERATIONS ARE COMPLETED.
- CONCRETE ADMIXTURES SHALL BE UTILIZED ONLY WITH PRIOR APPROVAL FROM THE STRUCT ENGINEER.
- CONCRETE COMPATIBILITY SHALL BE COORDINATED BY THE CONTRACTOR TO INSURE COMPATIBILITY WITH FLOOR COVERINGS, EXPOSED, POLISHED, AND STAINED FINISHES AS SPECIFIED BY THE ARCH.
 - A. CONCRETE TESTING SHALL BE REQUIRED FOR RCP CONCRETE ELEMENTS AND SHALL BE PERFORMED BY A QUALIFIED, INDEPENDENT TESTING LAB.
 - B. MINIMUM TESTING SHALL BE FOR SLABS IN ACCORDANCE WITH ASTM C143 AND FOR COMPRESSIVE STRENGTH TESTING IN ACCORDANCE WITH ASTM C39.
 - C. COMPRESSIVE STRENGTH TESTING SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY FIFTY CUBIC YARDS OF CONCRETE PLACED PER DAY. PLACEMENTS LESS THAN FIFTY CUBIC YARDS SHALL ALSO BE TESTED PER DAY FOR EACH CLASS. MINIMUM 3 LABS FOR LAB-CURED AND SIX FIELD CURED CURE TESTS BE COLLECTED FOR EACH TWO PLACEMENTS SHALL BE KEPT IN RESERVE AND TESTED, IF NECESSARY, WITH PRIOR APPROVAL FROM THE STRUCT ENGINEER.
- MIX DESIGN SUBMITTALS SHALL BE SENT TO THE STRUCT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONCRETE PLACEMENT AND SHALL BE IDENTIFIED BY DATE, PROJECT NUMBER AND EXACT LOCATION WHERE MIX WILL BE PLACED ON THE STRUCTURE. SUBMITTALS SHALL INCLUDE DATA FROM RECENT FIELD AND LAB CYLINDER TESTS AND STATISTICAL, TESTED

- CONCRETE TICKETS FOR CONCRETE MIXES DELIVERED TO THE SITE SHALL IDENTIFY THE EXACT TIME THAT THE MIX IS BATCHED. CONCRETE PLACEMENT SHALL OCCUR WITHIN ONE AND A HALF HOURS FROM THE EXACT TIME PROPORTIONED. CONCRETE SHALL BE ORDERED TO THE WORK FOR PLACEMENT. MIXES SHALL BE DISCARDED IF THE TIMEFRAME IS EXCEEDED. IT SHALL BE THE RESPONSIBILITY OF THE INDEPENDENT TESTING LAB TO ASSURE COMPLIANCE WITH PLACING TIME AND TO NOTIFY THE CONTRACTOR AND OWNER OF NON-COMPLIANCE.
15. CONCRETE FORMS SHALL BE OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH AS INDICATED BY TESTING SAMPLES.
16. LAP SPlice LENGTHS SHALL BE A MINIMUM OF 48 BAR DIA UNO.
17. CONCRETE SHALL BE CAST TO THE REQUIRED SURFACE IN ACCORDANCE WITH THE LISTED BELOW, UNLESS NOTED OTHERWISE.
- | | <u>LOCATION</u> | <u>CLEAR COVER</u> |
|--|--|--------------------|
| | CAST AGAINST EARTH | 3" |
| | EXPOSED TO EARTH OR WEATHER #6 AND LARGER | 2" |
| | EXPOSED TO EARTH OR WEATHER #5 AND SMALLER | 1 1/2" |
| | SLABS AND WALLS NOT EXPOSED TO WEATHER | 3/4" |
| | BEAMS AND COLUMNS NOT EXPOSED TO WEATHER | 1 1/2" |
| | SLABS ON GRADE (COVER FROM TOP OF SLAB) | 1 1/2" |
18. VERT AND HORIZ REINF INDICATED ON THE DWGS SHALL BE DOWELED OUT OF THE FOUNDATION OR THE ELEMENT WHERE THE REINF ORIGINATES, (SLAB BEAM, THE BEAM, WALL, ETC.) UTILIZING AN ACI STANDARD HOOK EXTENDING TO DEVELOP THE FULL ULTIMATE TENSILE STRENGTH OF THE BAR.
19. FORMWORK REMOVAL IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REMOVE FORMS IN SUCH A MANNER AS TO INSURE JOB SAFETY AND TO AVOID ANY DAMAGE TO THE CONSTRUCTION OF THE STRUCTURE.
20. IMMEDIATELY AFTER REMOVAL OF FORMS, REPAIR HONEYCOMBED OR DEFECTIVE AREAS WITH HIGH STRENGTH CEMENT GROUT. GROUT SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. WHEN REINF IS VISIBLE IN DEFECTIVE AREA, CONTACT THE STRUCT ENGINEER IMMEDIATELY.
21. CONCRETE SHALL BE LABELED AND GRADUATED IN ACCORDANCE WITH JOINT PATTERNS INDICATED ON PLAN. PLACE IN LINE STRIPS NOT TO EXCEED 30 FEET. PLACEMENTS AREA SHALL NOT EXCEED "FORMED JOINTS" AS INDICATED ON PLAN WITHOUT PRIOR ACCEPTANCE BY THE ENGINEER. BEFORE SAWCUTTING OF THE SLAB AS SOON AS THE SAW DOES NOT CAUSE THE SURFACE TO BE TORN OR DAMAGED, BUT IN NO CASE MORE THAN 12 HOURS AFTER SLAB FINISHING OPERATIONS.
22. MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HOURS.
23. WIRE BRUSH CLEAN AND MOISTEN ALL CONSTRUCTION JOINTS IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.

CONCRETE MIX REQUIREMENTS				
COMPONENT	28-DAY STRENGTH	W/C RATIO	AIR CONTENT	SLUMP
SLAB-ON-GRADE	4,000 PSI	0.50	UP TO 2%	4 TO 6 IN
FOOTINGS	4,000 PSI	0.50	UP TO 2%	4 TO 6 IN
CONCRETE CAST ABOVE GRADE	4,000 PSI	0.45	5%	4 TO 6 IN

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	STRUCTURAL GENERAL NOTES 3		S-003
							SR 8	COLUMBIA	438609-1-52-01			SHEET NO.
												3 OF 26

STRUCTURAL STEEL FRAMING

1. A QUALITY CONTROL PROGRAM OF SHOP AND FIELD TESTING AND INSPECTION WILL BE PERFORMED ON ALL STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTIONS IN ACCORDANCE WITH THE SPECIFICATIONS.
2. STRUCTURAL STEEL SHALL MEET THE FOLLOWING REQUIREMENTS UNO ON THE DRAWINGS:

TYPE	ASTM	GRADE
WIDE-FLANGE TYPE SHAPES (W, S & M)	A992	50
ANGLES, CHANNELS AND PLATES	A36	-----
PIPE	A53	B
STRUCT TUBING	A500	B
ANCHOR BOLTS	ASTM F1554	-----
STRUCT BOLTS	A325N	-----
ERECTION BOLTS	A307	-----

3. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC SPECIFICATIONS AND CODES, LATEST EDITIONS.
4. PERFORM ALL WELDING USING QUALIFIED WELDERS AND IN ACCORDANCE WITH THE AWS "STRUCTURAL WELDING CODE" - STEEL", LATEST EDITION, COMPLY WITH AISC SPECIFICATION SECTION 1.17 FOR MINIMUM FILLET WELD SIZE, BUT DO NOT USE LESS THAN ¼ INCH UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. ALL WELDING SHALL USE E70XX ELECTRODES. ALL WELD SHALL BE TOUCHED UP WITH ZINC-RICH PROTECTIVE PAINT FOR CORROSION RESISTANCE.
5. PROVIDE 3/4" MINIMUM DIAMETER HIGH STRENGTH BOLTS WHICH CONFORM TO THE REQUIREMENTS OF ASTM A325N FOR ALL BOLTED CONNECTIONS WITH DIRECT TENSION INDICATOR (DTI) WASHERS TO INSURE PROPER TENSIONING.
6. SUBMIT CHECKED SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOW SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL.
7. ANCHOR BOLTS AND BEARING PLATES SHALL BE LOCATED AND BUILT INTO CONNECTING WORK, PRE-SET BY TEMPLATES OR SIMILAR METHODS. ALL PLATES SHALL BE SET IN FULL BEDS OF NON-SHRINK GROUT.
8. TEMPORARY ERECTION BRACING SHALL BE PROVIDED AS REQUIRED FOR THE SAFETY, STABILITY AND ALIGNMENT OF THE STRUCTURE. IT SHALL NOT BE REMOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED. THE BUILDING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS MAY BE FINALLY BOLTED OR WELDED.
9. DO NOT FIELD CUT ANY STRUCTURAL STEEL WITHOUT THE REVIEW AND ACCEPTANCE OF THE ARCHITECT/ENGINEER.

STEEL DECKING

1. METAL DECK SHALL CONFORM TO STEEL DECK INSTITUTE (SDI) SPECIFICATIONS, PER EDITION REFERENCED IN BUILDING CODE, AND BE DETAILED, FABRICATED AND ERECTED ACCORDING TO THE SAME. SUBMIT SHOP DRAWINGS AND SIGNED AND SEALED CALCULATIONS BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF FLORIDA FOR APPROVAL BY THE ENGINEER OF RECORD SHOWING COMPLIANCE WITH DIAPHRAGM AND NET UPLIFT LOADS REQUIREMENTS AS INDICATED ON THE DRAWINGS.
2. STEEL ROOF DECK SHALL BE TYPE1.5B OR APPROVED EQUAL, 1 1/2" DEEP, 20 GA. WIDE RIB METAL DECKING.
3. FABRICATE METAL DECKING FROM STEEL WHICH CONFORMS TO ASTM A446, GRADE A, HAVING A MINIMUM YIELD STRENGTH OF 33,000 PSI. HOT DIP GALVANIZE ROOF DECK TO G90 REQUIREMENTS AND ALL OTHER METAL DECK TO G60 REQUIREMENTS.
4. DECKING SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SUPPORTS. USE SINGLE SPANS ONLY WHERE REQUIRED BY FRAMING GEOMETRY AND IDENTIFY LOCATIONS ON METAL DECK SHOP DRAWINGS.
5. EACH DECK UNIT SHALL BE ATTACHED TO SUPPORTING MEMBERS AND ADJACENT PANELS PER DIAPHRAGM ATTACHMENT REQUIREMENTS SPECIFIED ON DRAWINGS.
6. SUBMIT CHECKED SHOP DRAWINGS TO THE ENGINEER FOR REVIEW INDICATING LOCATION, GAGE AND SIZE OF EACH PIECE OF DECKING. SHOW FASTENING DETAILS TO FRAMING AND SIDE LAP CONNECTION DETAILS.
7. DO NOT HANG LOADS EXCEEDING 50 LBS. FROM ANY METAL DECKING. HANG ALL DUCTWORK, PIPING, ETC. DIRECTLY FROM FRAMING MEMBERS OR SUPPLEMENTARY MEMBERS.

LUMBER FRAMING

1. ALL LUMBER SHALL BE SOUTHERN PINE NO. 2 WITH AN ALLOWABLE MINIMUM EXTREME FIBER IN BENDING (FB) OF 1250 PSI FOR SINGLE MEMBER USE.
2. LUMBER SHALL COMPLY WITH PS20 "AMERICAN SOFTWOOD LUMBER STANDARD" WITH APPLICABLE RULES.
3. ALL PLYWOOD SHEATHING SHALL BE APA RATED, 5/8" PANELS. SEE DETAILS FOR LIMITS & LOCATIONS OF PLYWOOD DECKING.
4. PLYWOOD SHALL CONFORM TO REQUIREMENTS OF PS 1 "U.S. PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" AND AMERICAN PLYWOOD ASSOCIATION (APA) "PERFORMANCE STANDARD AND QUALIFICATION POLICY FOR STRUCTURAL USE PANELS", FORM NO. PRP-108.
5. FACTORY MARK EACH CONSTRUCTION PANEL WITH APA TRADEMARK INDICATING COMPLIANCE WITH GRADE REQUIREMENTS. ROOF SHEATHING: EXPOSURE DURABILITY CLASSIFICATION - EXTERIOR EXPOSURE 1.
6. PROVIDE FASTENERS AND ANCHORAGE AS INDICATED AND AS RECOMMENDED BY APPLICABLE STANDARDS, COMPLYING WITH FEDERAL STANDARDS FOR NAILS, STAPLES, SCREWS, BOLTS, NUTS, WASHERS AND ANCHORING DEVICES.
7. WHERE ROUGH CARPENTRY WORK IS EXPOSED TO GROUND OR WEATHER, USE FASTENERS WITH A HOT-DIP ZINC COATING (ASTM A153).
8. PRESSURE TREATED LUMBER WITH WATER BORNE PRESERVATIVES TO COMPLY WITH AWPB LP-2 FOR ALL LUMBER EXPOSED TO MOISTURE INCLUDING BUT NOT LIMITED TO WOOD CANTS, NAILERS, BLOCKING, STRIPPING, MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS AND WATERPROOFING, SILLS, SLEEPERS, MEMBERS IN CONTACT WITH MASONRY OR CONCRETE, AND MEMBERS LESS THAN 18" ABOVE GRADE.

PREFABRICATED WOOD TRUSSES

1. SUBMIT ENGINEERED AND CHECKED TRUSS SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOW SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION PLANS FOR ALL PREFABRICATED WOOD TRUSSES.
2. SUBMIT TRUSS MEMBER, BRACING, AND CONNECTION DESIGN CALCULATIONS, PREPARED AND SEALED BY A QUALIFIED STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, TO THE ENGINEER FOR REVIEW.
3. DESIGN ALL TRUSS MEMBERS AND CONNECTIONS IN ACCORDANCE WITH THE LATEST EDITIONS OF TP1 "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES" AND AND NFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" TO SUPPORT ALL LOAD CONFIGURATIONS INDICATED.
4. ALL TIMBER SHALL BE NEW TIMBER WITH THE FOLLOWING MINIMUM MATERIAL PROPERTIES:
- | | |
|-------------------------------|---------------|
| EXTREME FIBER BENDING STRESS | 1450 PSI |
| HORIZONTAL SHEAR STRESS | 95 PSI |
| COMPRESSION PARALLEL TO GRAIN | 1000 PSI |
| MODULES OF ELASTICITY | 1,700,000 PSI |
5. TRUSS CONNECTOR PLATES SHALL BE FORMED FROM NEW SHEET STEEL, 20 GAGE MINIMUM, CONFORMING TO ASTM A446 WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI. CONNECTOR PLATES SHALL BE HOT-DIPPED GALVANIZED, COATING DESIGNATION G60.
6. PROVIDE TRUSSES WITH AN UPWARD CAMBER WHICH OFFSETS TRUSS DEFLECTIONS CAUSED BY MEMBER SELF-WEIGHT, ROOF SHEATHING, HUNG CEILING AND MECHANICAL UNITS.
7. THE TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE ALL TEMPORARY TRUSS BRACING, BRIDGING AND SHORING AS REQUIRED FOR THE SAFETY, STABILITY AND ALIGNMENT OF THE ROOF AND/OR FLOOR TRUSS SYSTEM. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL THE PERMANENT LATERAL LOAD RESISTING SYSTEM IS FULLY OPERATIONAL.
8. HANDLE AND ERECT ALL TRUSSES IN SUCH A MANNER AS TO AVOID PERMANENT STRUCTURAL DAMAGE TO TRUSS MEMBERS OR CONNECTIONS. HOIST TRUSSES INTO POSITION ONLY AT POINTS SPECIFICALLY DESIGNED AND DESIGNATED BY THE TRUSS MANUFACTURER.
9. DO NOT FIELD CUT OR MODIFY TRUSS MEMBERS OR CONNECTIONS WITHOUT THE PRIOR REVIEW OR ACCEPTANCE OF THE ENGINEER OR TRUSS MANUFACTURER.

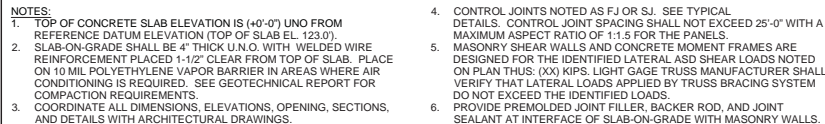
COLD-FORMED METAL TRUSSES

1. DESIGN, FABRICATE AND ERECT LIGHT GAGE TRUSSES IN ACCORDANCE WITH AISI SG-971 - SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCT MEMBERS; 1996, WITH 2000 SUPPLEMENT. ERECTION PLANS, TRUSS AND CONNECTION CALCULATIONS, DESIGNED BY THE CONTRACTOR, SHALL BE SUBMITTED FOR THE FILES OF THE STRUCT ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
2. TRUSS MANUFACTURER SHALL DESIGN FOR THE SUPERIMPOSED DEAD AND LIVE LOADS INDICATED ON DRAWING S-301.
3. DESIGN ROOF TRUSSES TO RESIST A WIND UPLIFT PRESSURE APPLIED NORMAL TO THE ROOF PLANE. - SEE NET UPLIFT PLAN.
4. IN ADDITION TO THE ABOVE LOADS, LIGHT GAGE TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. SEE STRUCTURAL ROOF FRAMING PLAN AS WELL AS MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.
5. INDICATE ALL LIGHT GAGE TRUSS CONNECTIONS AND BRACING, TEMPORARY AND PERMANENT, ON THE SHOP DRAWINGS. CONNECTORS AND BRACING MEMBERS SHALL BE FURNISHED BY THE TRUSS MANUFACTURER AND INSTALLED BY THE CONTRACTOR. SHOP DRAWINGS THAT DO NOT INCLUDE THESE DETAILS WILL RESULT IN SHOP DRAWINGS BEING RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.
6. TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.
7. COMPLY WITH AWS D1.1 AND AWS D1.3, AS APPLICABLE, FOR WELDING BASE METALS LESS THAN 1/8 INCH THICK. QUALIFY WELDING PROCESSES AND WELDING OPERATORS IN ACCORDANCE WITH AWS B2.1.
8. VERTICAL LIVE LOAD DEFLECTION ON ROOF TRUSSES SHALL BE LESS THAN OR EQUAL TO 1/240 OF SPAN.
9. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS WITHOUT DAMAGE OR OVER STRESSING. SHEATHING FAILURE, CONNECTION FAILURE, UNDUCE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO MAXIMUM AMBIENT TEMPERATURE RANGE OF 120 DEGREES F (67 DEGREES C).
10. STORE TRUSSES ON BLOCKING, PALLETES, PLATFORMS OR OTHER SUPPORTS OFF THE GROUND AND IN AN UPRIGHT POSITION SUFFICIENTLY BRACED TO AVOID DAMAGE FROM EXCESSIVE BENDING.
11. PROTECT TRUSSES AND ACCESSORIES FROM CORROSION, DEFORMATION, DAMAGE AND DETERIORATION WHEN STORED AT JOB SITE. KEEP TRUSSES FREE OF DIRT AND OTHER FOREIGN MATTER.
12. DURING CONSTRUCTION, ADEQUATELY DISTRIBUTE ALL LOADS APPLIED TO TRUSSES SO AS NOT TO EXCEED THE CARRYING CAPACITY OF ANY ONE JOIST, TRUSS OR OTHER COMPONENT.
13. PROVIDE MANUFACTURER'S STANDARD STEEL TRUSS MEMBERS, BRACING, BRIDGING, BLOCKING, REINFORCEMENTS, FASTENERS AND ACCESSORIES WITH EACH TYPE OF STEEL FRAMING REQUIRED, AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION INDICATED AND AS NEEDED TO PROVIDE A COMPLETE LIGHT GAUGE COLD-FORMED STEEL TRUSS SYSTEM.
14. PROVIDE HOT-DIPPED GALVANIZED COATING FINISH, MINIMUM G90/Z275.
15. BRACING, BRIDGING AND BLOCKING MEMBERS: FABRICATE COMPONENTS OF ASTM A 653/A 653M CS TYPE B STEEL SHEET WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
16. FASTENERS: MANUFACTURER RECOMMENDED SELF-DRILLING, SELF TAPPING SCREWS WITH CORROSION-RESISTANT PLATED FINISH OF SUFFICIENT SIZE AND NUMBER TO ENSURE THE STRENGTH OF THE CONNECTION.
17. TRUSSES SHALL BE FASTENED TO CONCRETE BEAMS AND MASONRY BOND BEAMS USING CLIPS AND FASTENERS INDICATED ON PLANS

100% CONSTRUCTION DOCUMENTS

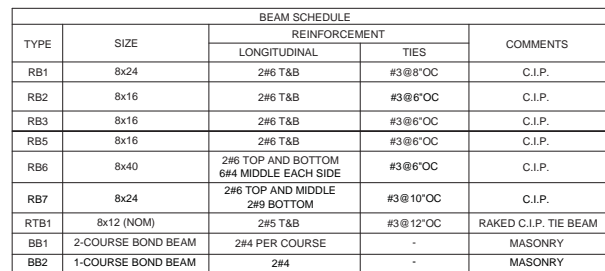
REVISIONS						GAI CONSULTANTS, INC. 600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS	DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-004
										SR 8	COLUMBIA
										4 OF 26	

WALL SCHEDULE		
TYPE	WIDTH	WALL REINFORCING
8BW524	7 5/8"	#5 @24"OC
8BW540	7 5/8"	#5 @40"OC
8BW616	7 5/8"	#6 @16"OC
8BW724	7 5/8"	#7 @24"OC
12BW540	11 5/8"	#5 @40"OC
INTERIOR CMU	7 5/8"	#5 @48"OC



100% CONSTRUCTION DOCUMENTS

REVISIONS						<div>GAI CONSULTANTS, INC.</div> <div>600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066</div>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS	DRAWING NO. S-101
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SLAB ON GRADE PLAN	SHEET NO. 6 OF 26
							SR 8	COLUMBIA	438609-1-52-01		

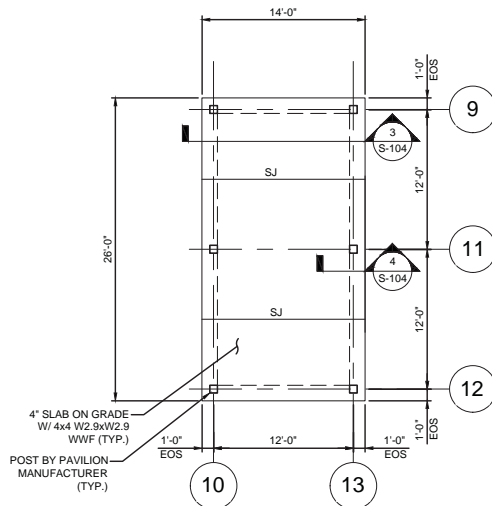


1 ROOF FRAMING PLAN
S-102 SCALE: 1/16" = 1'-0"

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

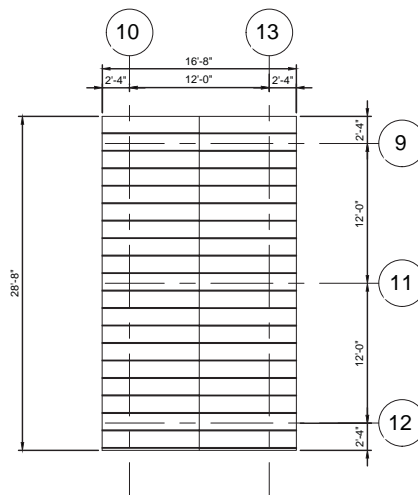
GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS	DRAWING NO. S-102
				SHEET NO. 7 OF 26
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	ROOF FRAMING PLAN	
SR 8	COLUMBIA	438609-1-52-01		

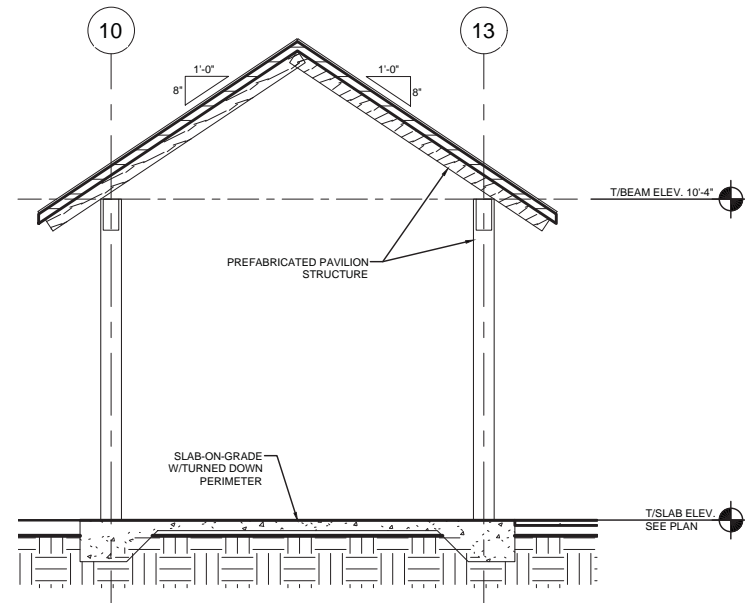


1 PAVILLION FOUNDATION PLAN
S-104 SCALE: 3/32" = 1'-0"

- NOTES:
1. TOP OF SLAB ELEVATION IS (+0'-0") FROM DATUM ELEVATION (VARIES - SEE CIVIL).
2. CONTROL JOINTS NOTED AS SJ, SEE TYPICAL DETAIL.

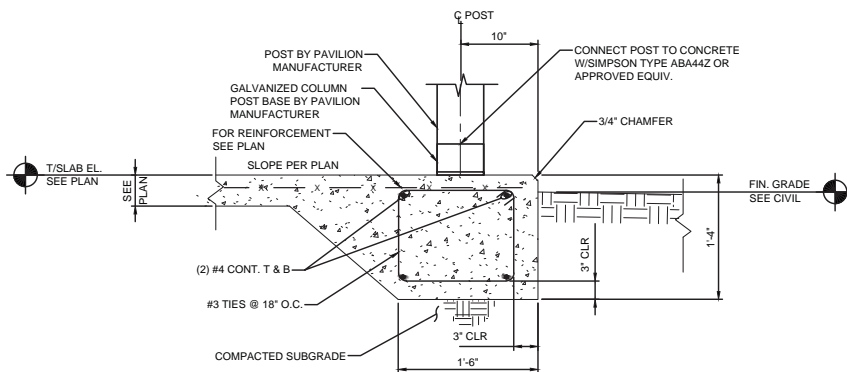


2 PAVILLION ROOF PLAN
S-104 SCALE: 3/32" = 1'-0"



3 SECTION
S-104 SCALE: 1/4" = 1'-0"

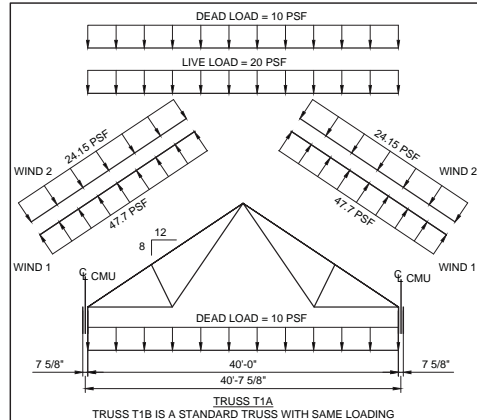
NOTE:
PRE-FABRICATED PICNIC PAVILION STRUCTURE SHALL BE IN ACCORDANCE WITH
FDOT INDEX 530.

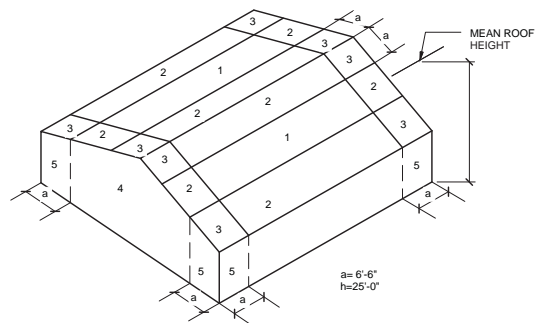


4 SECTION
S-401 SCALE: 3/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS

REVISIONS						GAI CONSULTANTS, INC. 600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS	PICNIC PAVILION	DRAWING NO. S-104
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			SHEET NO. 9 OF 26
							SR 8	COLUMBIA	438609-1-52-01			





1
S-302
COMPONENTS & CLADDING BUILDING WIND PRESSURES
SCALE: 1/2" = 1'-0"

NOMINAL C&C WIND PRESSURE PLAN NOTES:

1. PRESSURES INDICATED ARE NOMINAL COMPONENTS AND CLADDING GROSS PRESSURES, CONVERTED FROM ULTIMATE PRESSURES USING A 0.6 MULTIPLIER FACTOR. NO FURTHER REDUCTION IS ALLOWED.
2. a - INDICATES END ZONE WIDTH IN FT.
3. Vult AND Vwind INDICATE ULTIMATE AND NOMINAL DESIGN WIND SPEED IN MPH RESPECTIVELY.
4. GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (a) NOT SHOWN IN TABLE.
5. GROSS PRESSURES ARE FOR JOISTS, WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING.
6. POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.
7. ROOF ZONES INCLUDING END CONDITIONS ARE DENOTED AS (1) THRU (3)
8. WALL ZONES INCLUDING END CONDITIONS ARE DENOTED AS (4) AND (5)
9. OVERHANG ZONES (2H) AND (3H) APPLY ONLY TO ROOF OVERHANGS WHERE THE COMPONENT OR CLADDING RECEIVES PRESSURE SIMULTANEOUSLY ON BOTH SIDES (UPWARD SUCTION ON TOP AND UPWARD PRESSURE ON BOTTOM, SUCH AS AT OPEN SOFFITS), AND IS CONTINUOUS WITH FIELD OF ROOF.
10. NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELFWEIGHT (DEAD LOAD) OF THE MATERIALS. THE MAXIMUM REDUCTION OF GROSS WIND UPLIFT PRESSURES SHALL BE LIMITED TO THE SELF WEIGHT OF THE ROOF SYSTEM PLUS 5 PSF MAXIMUM FOR SUPERIMPOSED DEAD LOADS.
11. AT ALCOVES AND CANOPIES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT OR CANOPY SHALL EQUAL THE WALL PRESSURE IN THAT AREA.

WINDOWS/DOORS PERFORMANCE REQUIREMENTS:

PROVIDE WINDOW, DOOR AND FRAME SYSTEMS THAT COMPLY WITH PERFORMANCE REQUIREMENTS INDICATED AS DEMONSTRATED BY TESTING MANUFACTURER'S ASSEMBLIES IN ACCORDANCE WITH FLORIDA BUILDING CODE TEST PROTOCOLS TAS 201, TAS 202 AND TAS 203.

2
S-302
WIND PRESSURES AND NOTES
SCALE: 3/4" = 1'-0"

NOMINAL C&C WIND PRESSURE (ASCE 7-10)

BUILDING	a (FT)	Vult (MPH)	GCpi	Area (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)
REST AREA (MAIN BUILDING)	4.6	120	+/- 0.18	<10	+32.0 -34.9	+32.0 -40.9	+32.0 -40.9	+34.9 -37.9	+34.9 -46.8
				20	+31.1 -33.2	+31.1 -39.1	+31.1 -39.1	+33.4 -36.3	+33.4 -43.6
				50	+29.9 -30.8	+29.9 -36.7	+29.9 -36.7	+31.3 -34.3	+31.3 -39.5
				100	+29.0 -29.0	+29.0 -34.9	+29.0 -34.9	+29.7 -32.7	+29.7 -36.3
				500+	---	---	---	+26.1 -29.0	+26.1 -29.0
REST AREA (STORAGE BUILDING)	3.0	120	+/- 0.18	<10	+28.8 -31.4	+28.8 -36.8	+28.8 -36.8	+31.4 -34.1	+31.4 -42.1
				20	+28.0 -29.8	+28.0 -35.2	+28.0 -35.2	+30.0 -32.7	+30.0 -39.3
				50	+26.9 -27.7	+26.9 -33.0	+26.9 -33.0	+28.1 -30.8	+28.1 -35.5
				100	+26.1 -26.1	+26.1 -31.4	+26.1 -31.4	+26.7 -29.4	+26.7 -32.7
				500+	---	---	---	+23.4 -26.1	+23.4 -26.1

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

SCHEDULES

DRAWING NO.
S-302
SHEET NO.
12 OF 26

MASONRY LAP SPLICE SCHEDULE	
BAR SIZE	MINIMUM LAP LENGTH
#4	24"
#5	30"
#6	36"
#7	48"
#8	60"

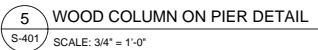
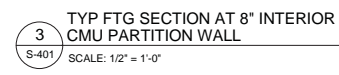
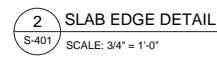
NOTE:
STAGGER LAPS BETWEEN ADJACENT BARS
MINIMUM 3'-0" FOR ALL HORIZ REINF

REINF BAR DEVELOPMENT LENGTH(L _d) AND LAP SPLICE SCHED.					
BAR SIZE	LAP SPLICE	WALLS AND SLABS MIN CONC COVER = 3/4"		BEAMS, COLS, WALLS, SLABS MIN CONC COVER = 1-1/2"	
		TOP (IN)	OTHER (IN)	TOP (IN)	OTHER (IN)
#3	A	13	12	12	12
	B	16	13	15	12
#4	A	22	17	15	12
	B	29	22	20	15
#5	A	35	27	19	15
	B	45	35	24	19
#6	A	50	38	27	21
	B	65	50	35	27
#7	A	85	65	46	35
	B	110	85	59	46
#8	A	110	85	60	46
	B	143	110	77	60
#9	A	140	108	76	58
	B	182	140	98	76
#10	A	178	137	96	74
	B	231	178	125	96

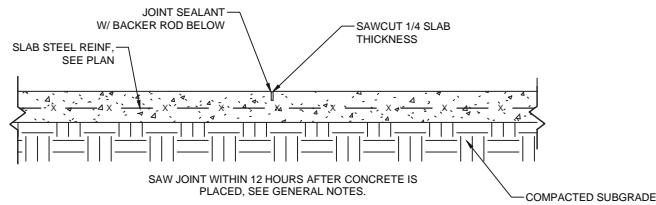
- NOTES
1. TABULATED VALUES ARE BASED ON 4000 PSI NORMAL WEIGHT CONCRETE. FOR LIGHTWEIGHT CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3. FOR CONCRETE STRENGTHS OTHER THAN F_c = 4000 PSI, MULTIPLY VALUES BY 63.25 DIVIDED BY THE SQ. ROOT F_c.
 2. TOP BARS ARE HORIZ BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
 3. THIS SCHED IS VALID ONLY FOR BARS WITH SPECIFIED COVER AND SPACED GREATER THAN TWO TIMES (2X) THE INDICATED COVER DIMENSIONS PLUS ONE BAR DIA.
 4. FOR EPOXY COATED BARS, MULTIPLY THE TABULATED VALUES BY 1.5
 5. USE CLASS "B" LAP SPLICE UNO.
 6. DEVELOPMENT LENGTH L_d EQUALS THE "A" CLASS LAP DIMENSION.

REVISIONS						100% CONSTRUCTION DOCUMENTS		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		DRAWING NO.
								S-303
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID
						SR 8	COLUMBIA	438609-1-52-01
						SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS		SHEET NO.
						SCHEDULES		13 OF 26

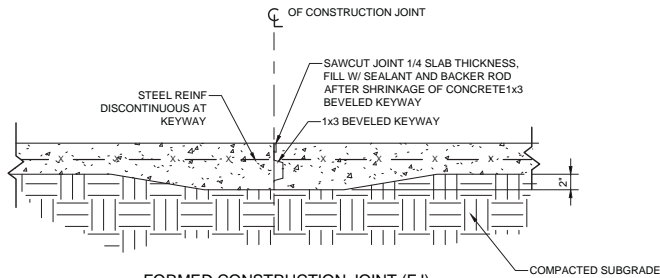
GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066



REVISIONS						<div>GAI CONSULTANTS, INC.</div> <div>600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066</div>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS	DRAWING NO. S-401
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	FOUNDATION DETAILS	SHEET NO.
							SR 8	COLUMBIA	438609-1-52-01		14 OF 26

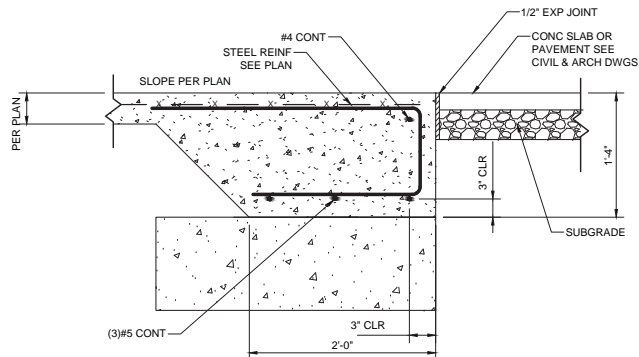


SAWCUT CONTROL JOINT (SJ)

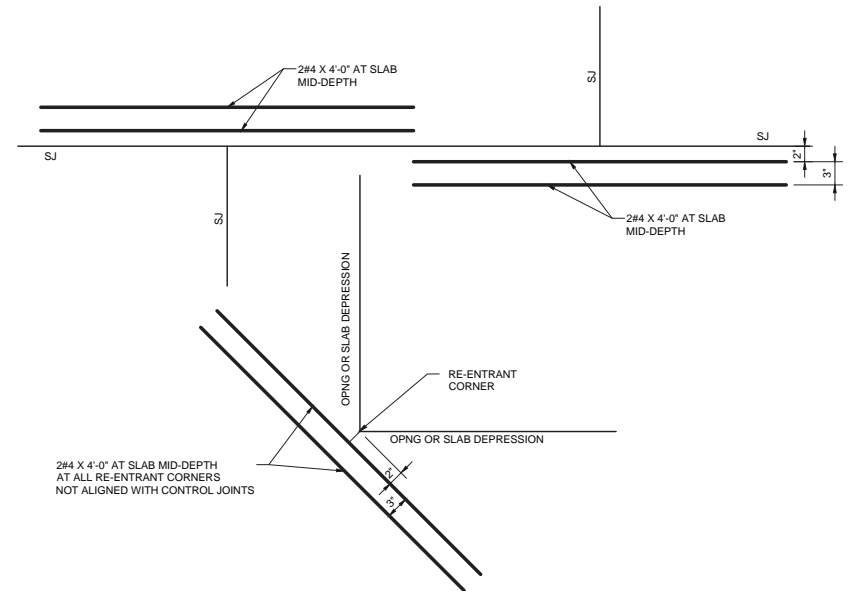


FORMED CONSTRUCTION JOINT (FJ)

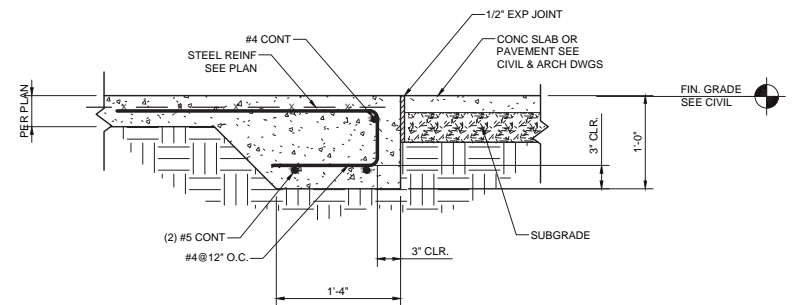
1 SLAB CONTROL AND CONSTRUCTION JOINT DETAILS
SCALE: 3/4" = 1'-0"



3 SLAB EDGE AT DOOR-OPENING DETAIL
SCALE: 3/4" = 1'-0"



2 RE-ENTRANT CORNER DETAIL
SCALE: 3/4" = 1'-0"



4 SLAB EDGE DETAIL
SCALE: 3/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

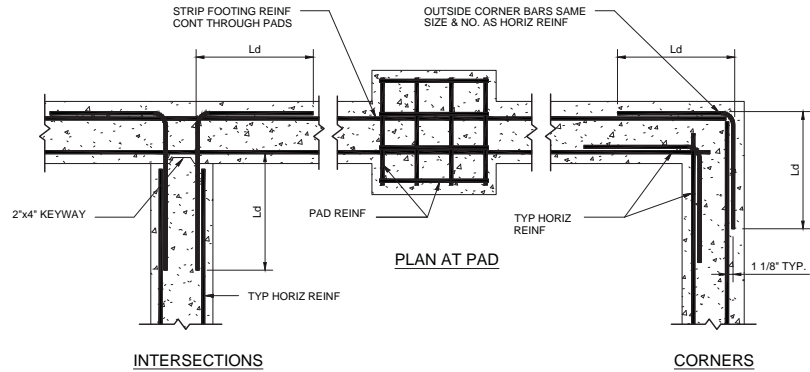
GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

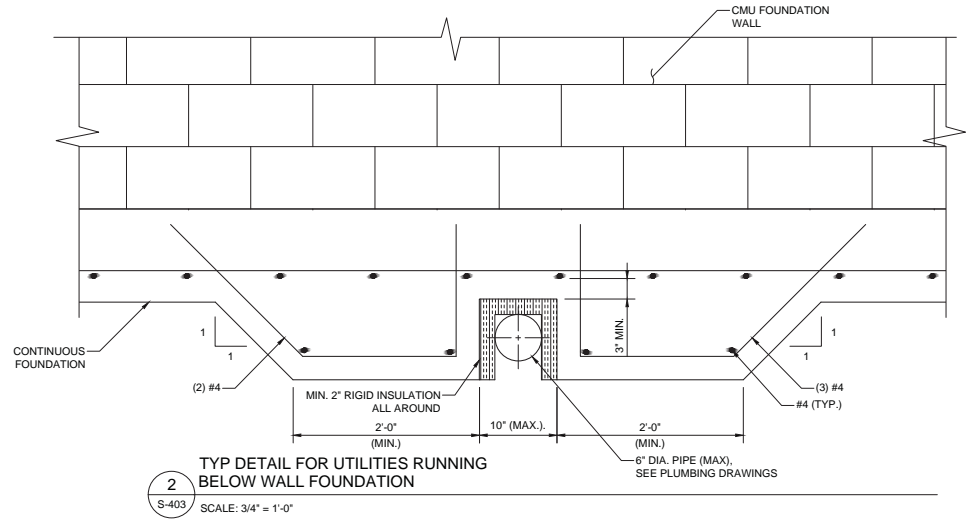
SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

FOUNDATION DETAILS

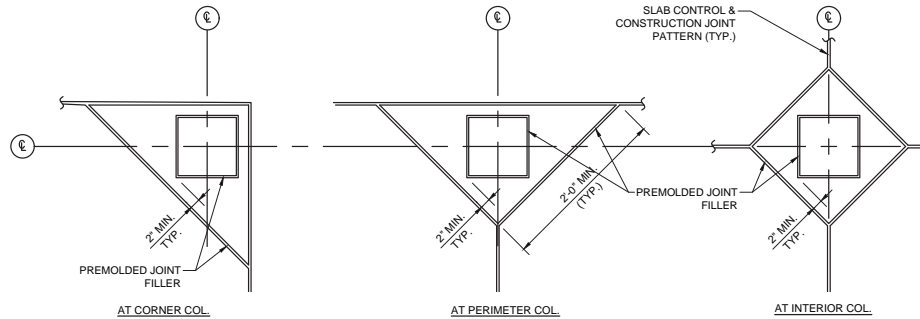
DRAWING NO.
S-402
SHEET NO.
15 OF 26



1 TYP HORIZ. REINF. - CONC FOUNDATIONS
S-403 SCALE: 1/2" = 1'-0"

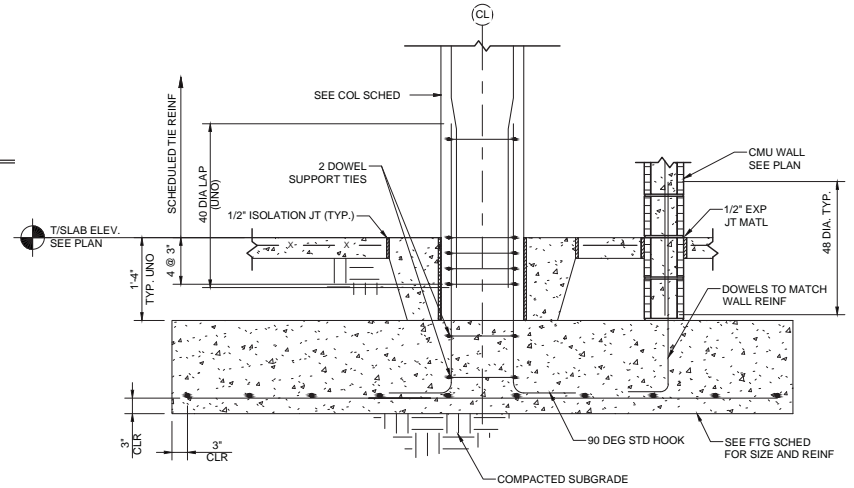


2 TYP DETAIL FOR UTILITIES RUNNING BELOW WALL FOUNDATION
S-403 SCALE: 3/4" = 1'-0"



4 COLUMN/SLAB-ON-GRADE ISOLATION JOINT DETAILS
S-403 SCALE: N.T.S.

- NOTES:
1. PROVIDE MINIMUM 2" CONCRETE COVER BEYOND COLUMN BASE.
 2. SEE SLAB-ON-GRADE JOINT DETAILS FOR ADDITIONAL INFORMATION.



4 CONCRETE COLUMN ON SPREAD FOOTING
S-404 SCALE: 1/2" = 1'-0"

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

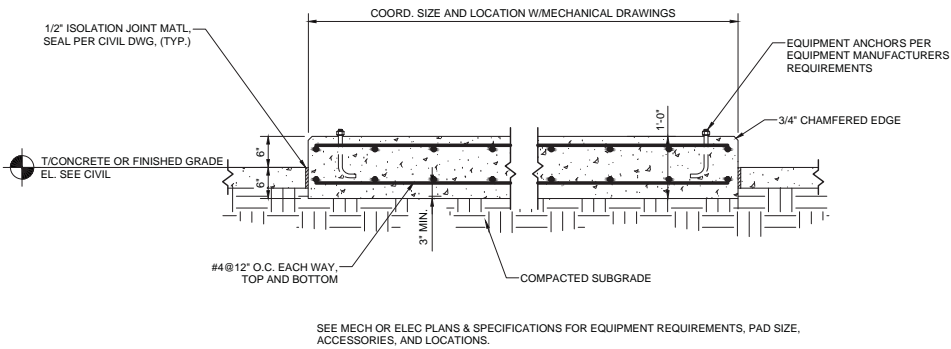
GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

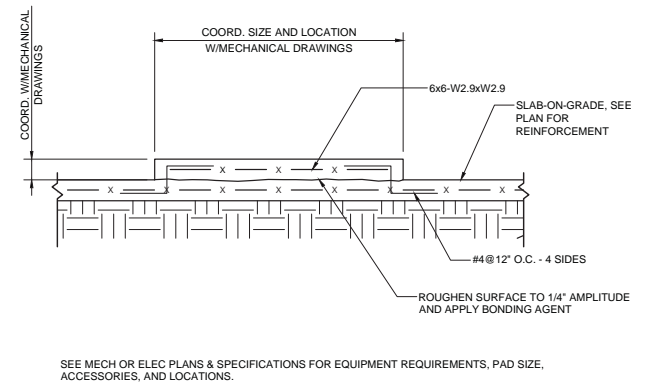
SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

FOUNDATION DETAILS

DRAWING NO.
S-403
SHEET NO.
16 OF 26



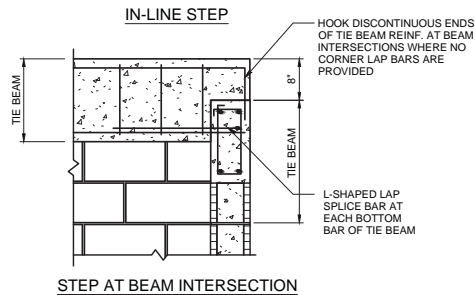
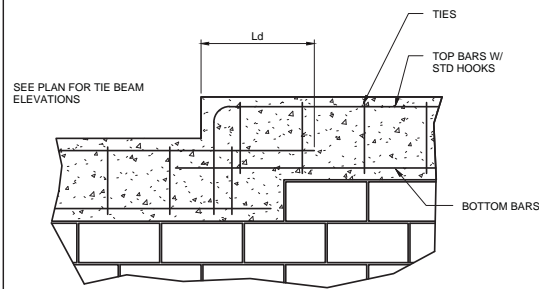
1 TYP EQUIPMENT PAD - EXTERIOR
S-404 SCALE: 1/2" = 1'-0"



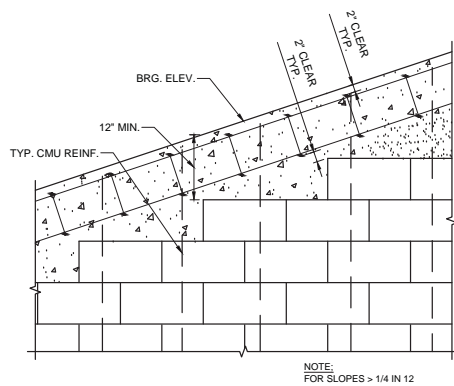
2 TYP HOUSEKEEPING PAD - INTERIOR
S-404 SCALE: 1/2" = 1'-0"

100% CONSTRUCTION DOCUMENTS

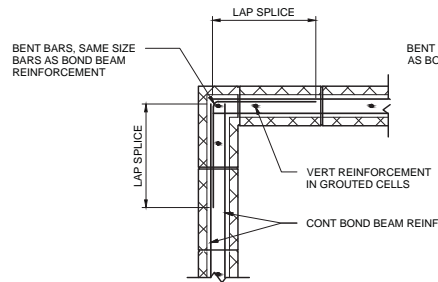
REVISIONS						GAI CONSULTANTS, INC. 600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS FOUNDATION DETAILS	DRAWING NO. S-404
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		SHEET NO.
							SR 8	COLUMBIA	438609-1-52-01		17 OF 26



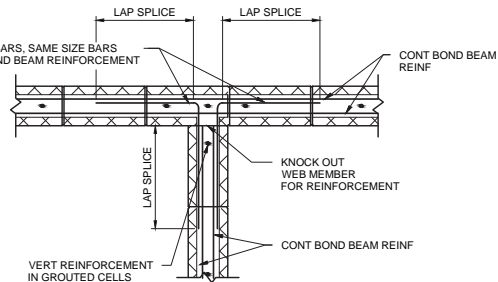
1 TYP STEPPED TIE BEAM DETAIL
S-501 SCALE: 1/2" = 1'-0"



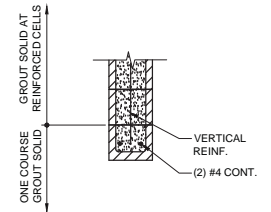
4 TYP. SLOPED CAST-IN-PLACE BEAM
S-501 SCALE: 1/2" = 1'-0"



CORNER OF CMU BOND BEAM BLOCKS

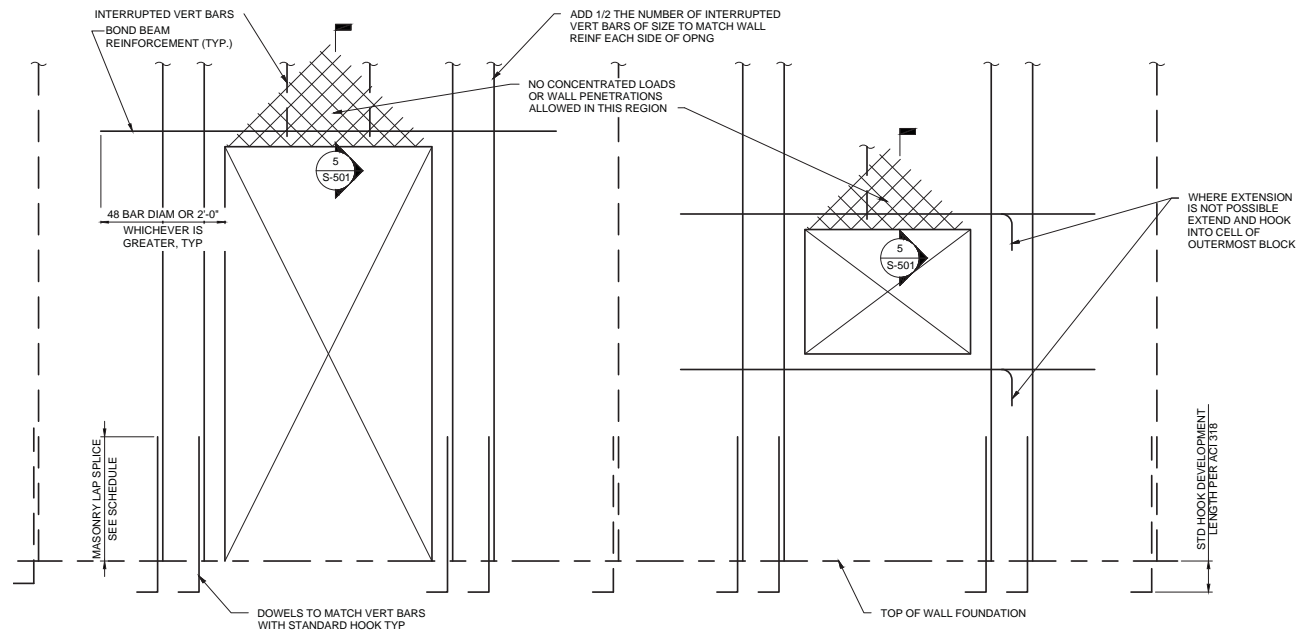


INTERSECTION OF CMU BOND BEAM BLOCKS



5 TYPICAL CMU LINTEL
S-501 SCALE: N.T.S.

2 BAR BENDS AT BOND BEAMS
S-501 SCALE: 1/2" = 1'-0"



3 CMU OPENING REINFORCING DETAIL
S-501 SCALE: 1/2" = 1'-0"

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

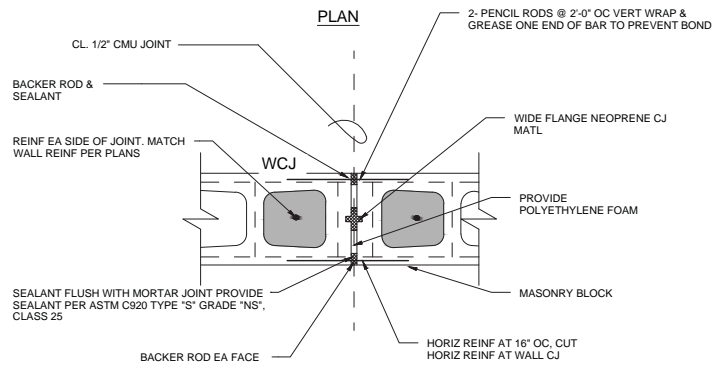
GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

MASONRY DETAILS

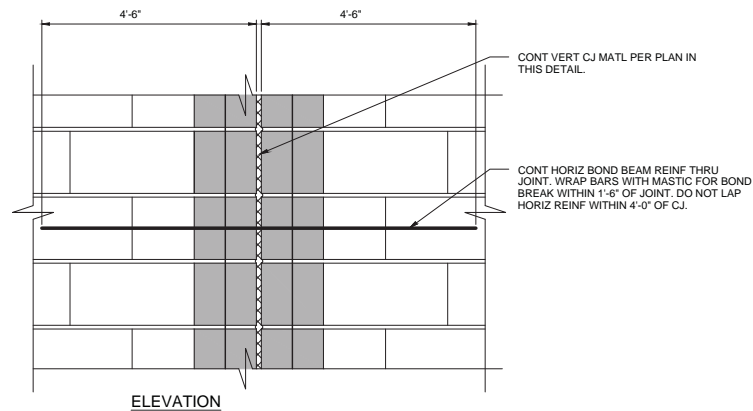
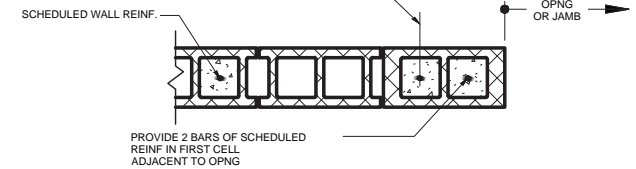
DRAWING NO.
S-501
SHEET NO.
18 OF 26



NOTES:

1. MASONRY CONTROL JOINTS TO BE COORDINATED WITH ARCH ELEVATIONS, PLANS AND SPECIFICATIONS.
2. WALL CONTROL JOINTS SHOULD MATCH LOCATION OF SLAB CONTROL JOINTS, ONLY AS NOTED IN PLAN.
3. CONTROL JOINTS @ MASONRY WALLS SHOULD BE PLACED @ SPACING NOT EXCEEDING 25'-4" OR 3 TIMES THE WALL HEIGHT WHICHEVER IS LESS. MORE SPECIFICALLY WHEN SELECTING A LOCATION IT SHOULD INCLUDE
 - A. CHANGES IN WALL HT. OR THICKNESS.
 - B. OVER OPNGS @ ONE SIDE PAST THE LINTEL.
 - C. AT INTERSECTING WALL.
 - D. AT CONSTRUCTION JOINTS IN SLAB.
 - E. NOT LESS THAN 2'-0" FROM A BEARING PLATE.
4. G. C. TO PROVIDE SHOP DWG. W/ LOCATIONS OF CONTROL JOINTS & ALL VERT REINF FOR REVIEW BY A/E.

ADD 1/2 THE NUMBER OF INTERRUPTED VERT. BARS OF SIZE TO MATCH WALL REINF. IN ADJACENT CELLS EACH SIDE OF OPNG.

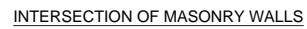


1 MASONRY CONTROL JOINT (MCJ)
S-502 SCALE: 3/4" = 1'-0"

2 DETAIL AT JAMB OR OPENING
S-502 SCALE: 3/4" = 1'-0"

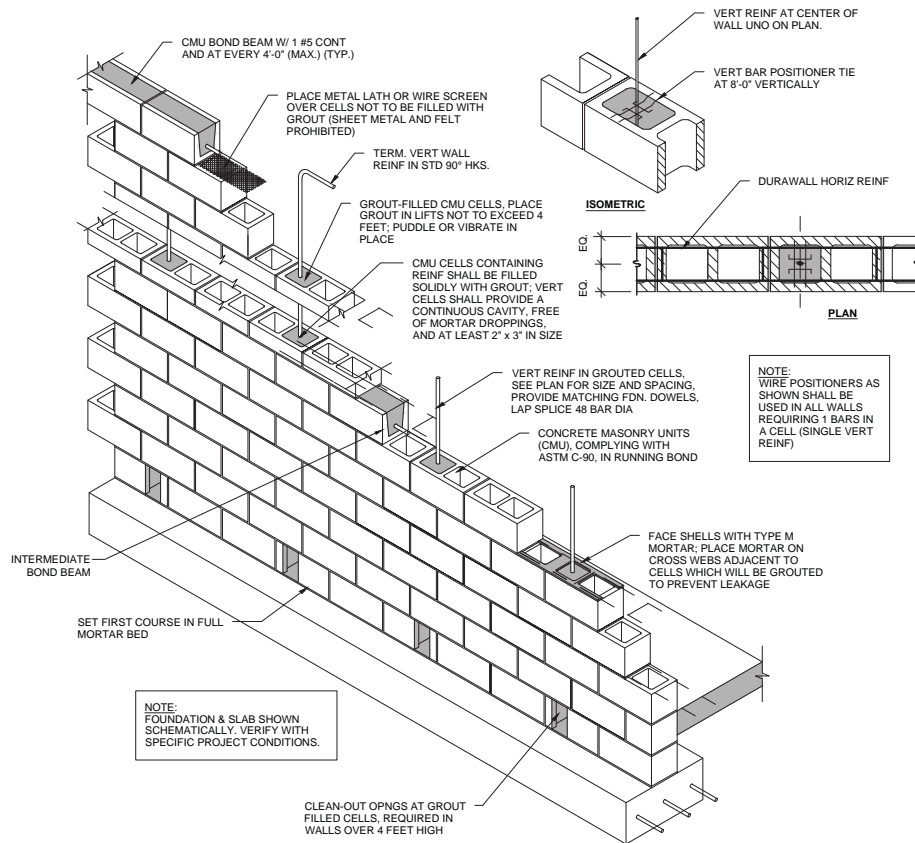
100% CONSTRUCTION DOCUMENTS

REVISIONS						GAI CONSULTANTS, INC. 600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS	MASONRY DETAILS	DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			SHEET NO.
							SR 8	COLUMBIA	438609-1-52-01			19 OF 26



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

										100% CONSTRUCTION DOCUMENTS		
REVISIONS						<div>GAI CONSULTANTS, INC. 600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066</div>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS		DRAWING NO.
DATE	BY	DESCRIPTION			DATE		BY	DESCRIPTION			S-503	
											SHEET NO.	
											20 OF 26	
							ROAD NO. COUNTY FINANCIAL PROJECT ID			MASONRY DETAILS		
							SR 8 COLUMBIA 438609-1-52-01					



TYP REINF MASONRY WALL CONSTRUCTION

1

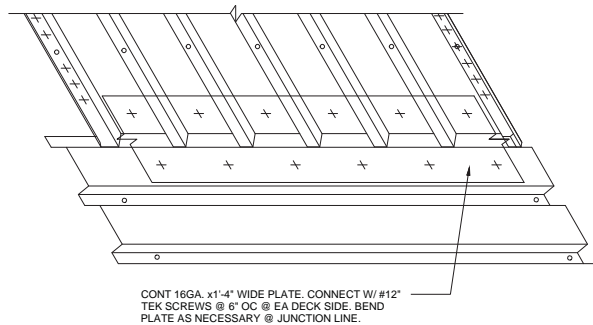
S-504

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

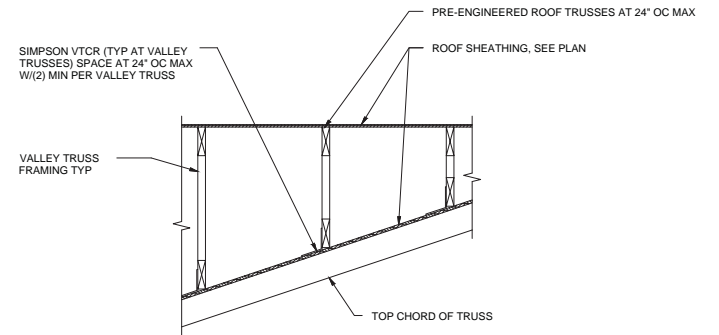
NOTE:
SEE ARCH FOR MASONRY WALL INSULATION.

100% CONSTRUCTION DOCUMENTS

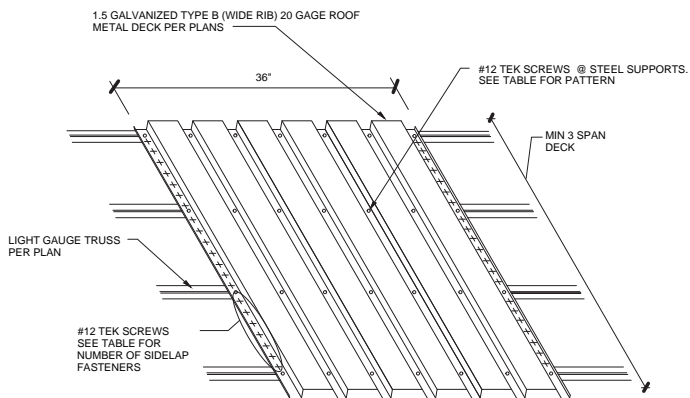
REVISIONS						GAI CONSULTANTS, INC. 600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS MASONRY DETAILS	DRAWING NO. S-504
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		SHEET NO.
							SR 8	COLUMBIA	438609-1-52-01		21 OF 26



1 DECKING AT CHANGE OF DIRECTION
S-601 SCALE: 1/2" = 1'-0"



3 VALLEY TRUSS DETAIL
S-601 SCALE: 1/2" = 1'-0"



ROOF LOCATION	FASTENING PATTERN	NO. OF SIDELAP FASTENERS
CNTR BREEZEWAY	36/7	6
LOWER ROOFS	36/5	4

2 TYP ROOF DECK ATTACHMENT
DETAIL
S-601 SCALE: 1/2" = 1'-0"

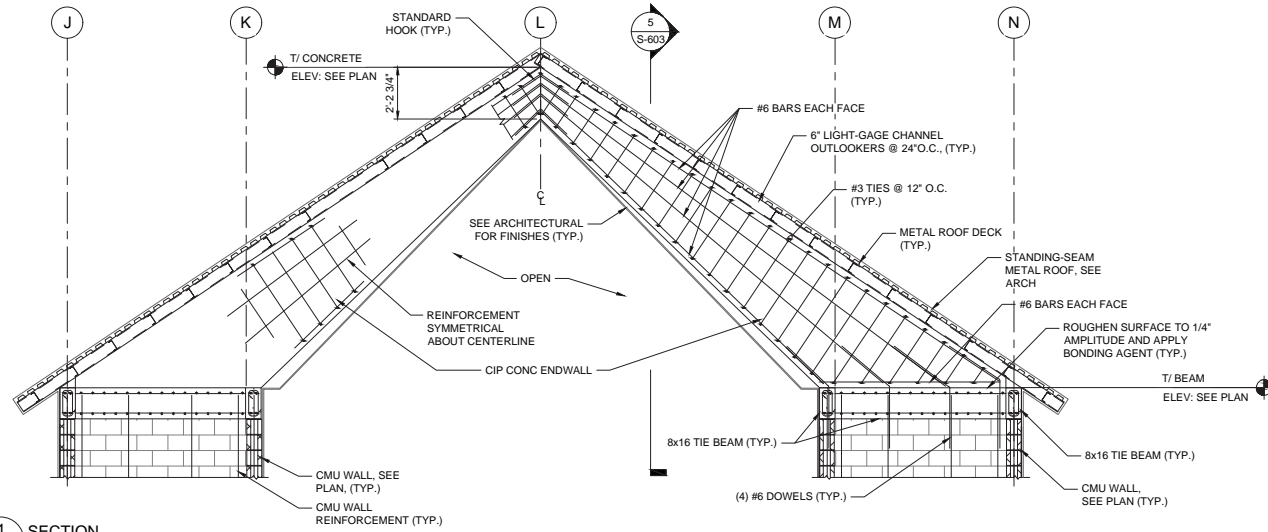
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REVISIONS					
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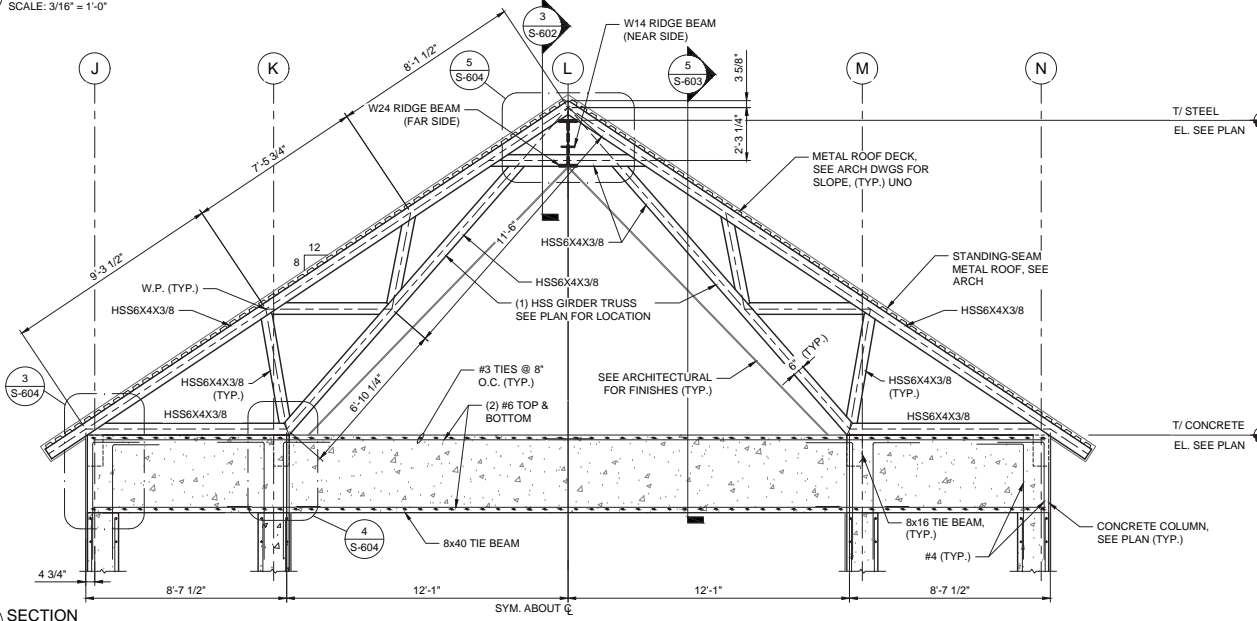
GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

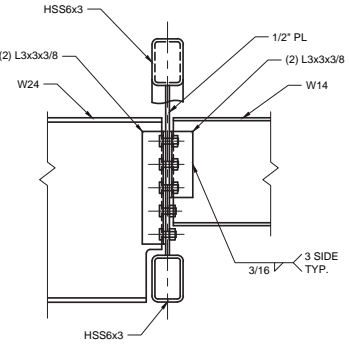
SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS		DRAWING NO.
DECK DETAILS		S-601
		SHEET NO. 22 OF 26



1 SECTION
S-602 SCALE: 3/16" = 1'-0"



2 SECTION
S-602 SCALE: 3/16" = 1'-0"



3 SECTION
S-602 SCALE: 3/4" = 1'-0"

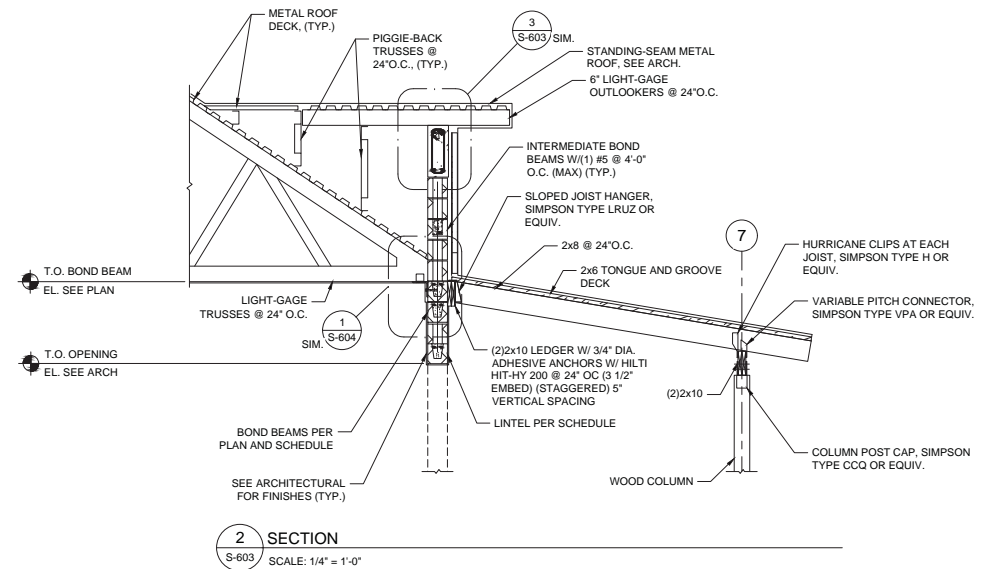
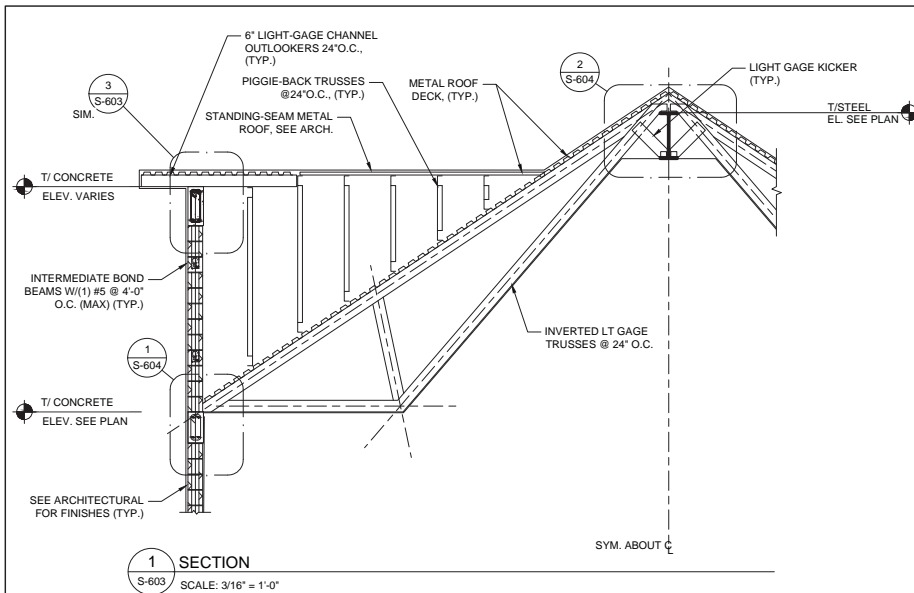
100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

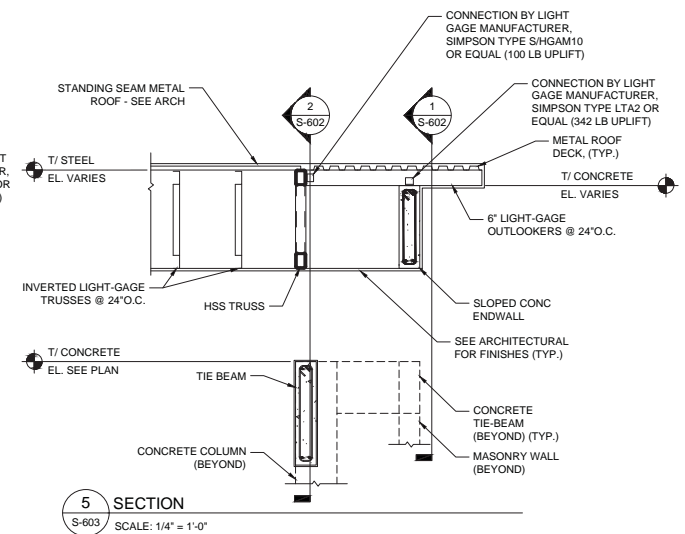
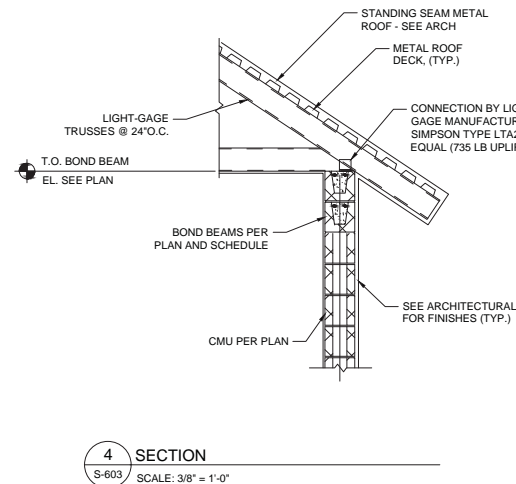
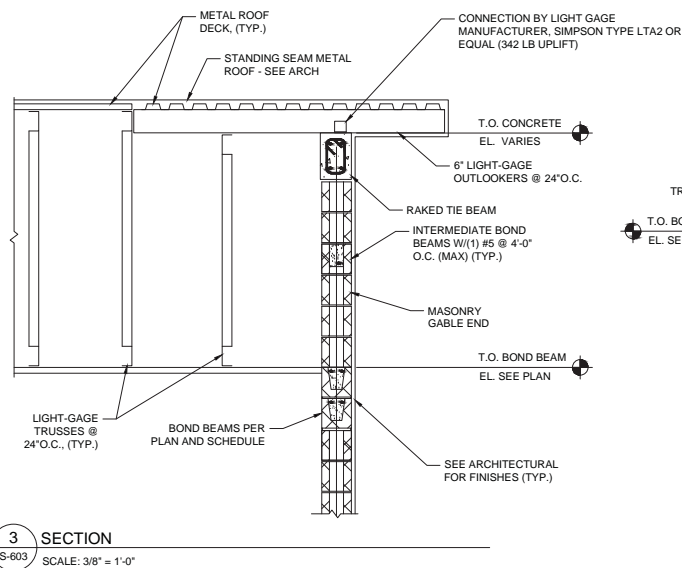
GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS		DRAWING NO.
ROOF SECTIONS		S-602
		SHEET NO.
		23 OF 26



NOTE:
EACH TONGUE AND GROOVE DECK MEMBER SHALL BE TOE-NAILED AT EACH SUPPORT WITH ONE 16D COMMON NAIL THROUGH THE TONGUE AND FACE-NAILED WITH ONE 16D COMMON NAIL.



100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

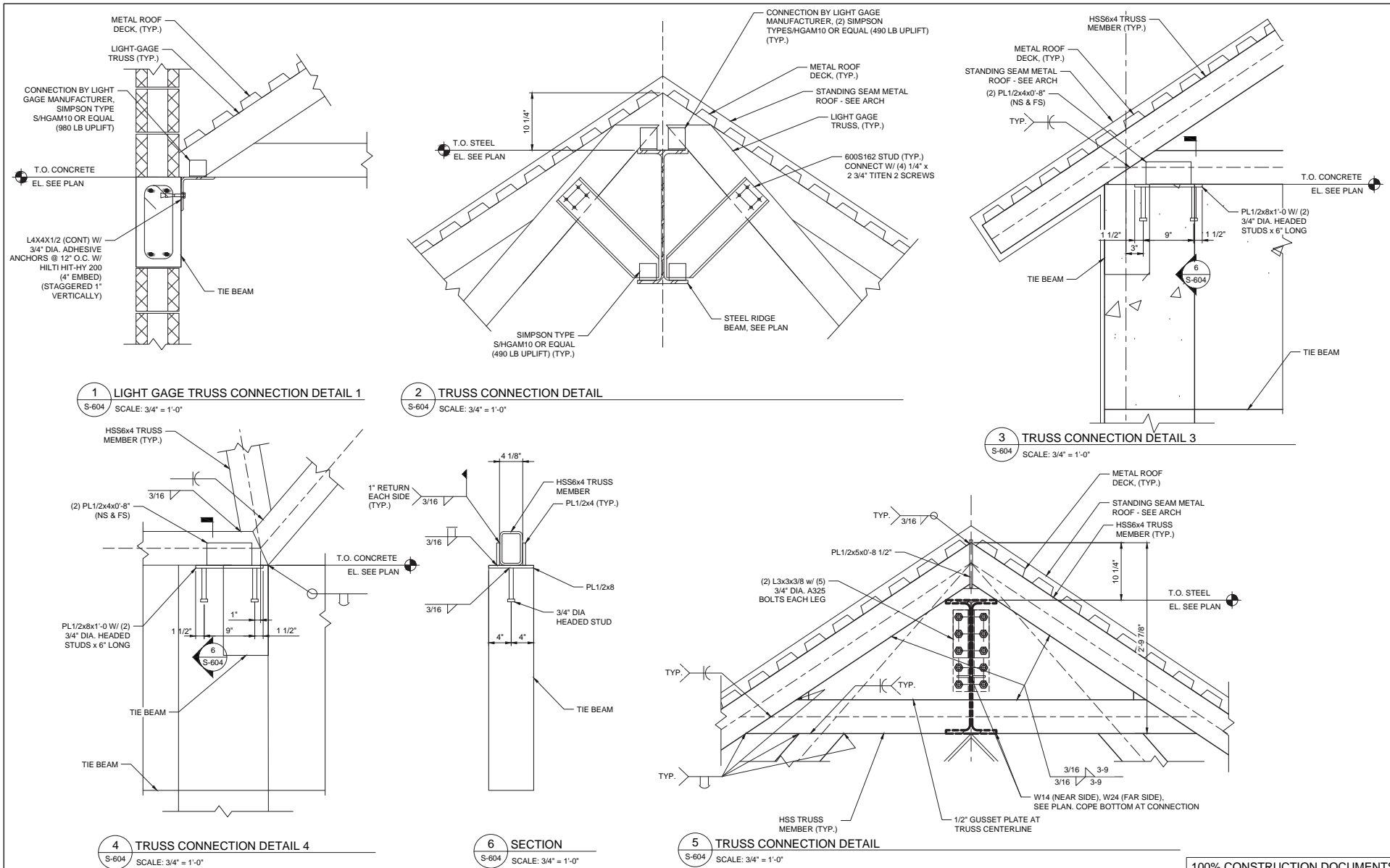
GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

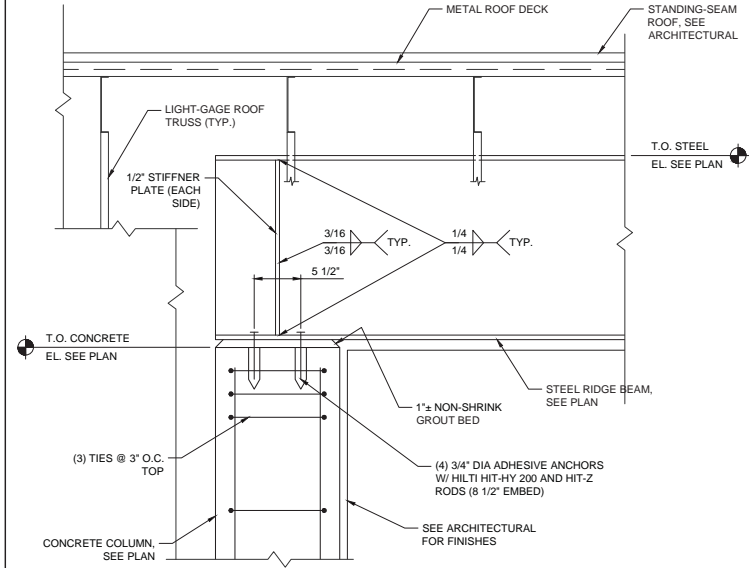
ROOF SECTIONS

DRAWING NO.
S-603
SHEET NO.
24 OF 26

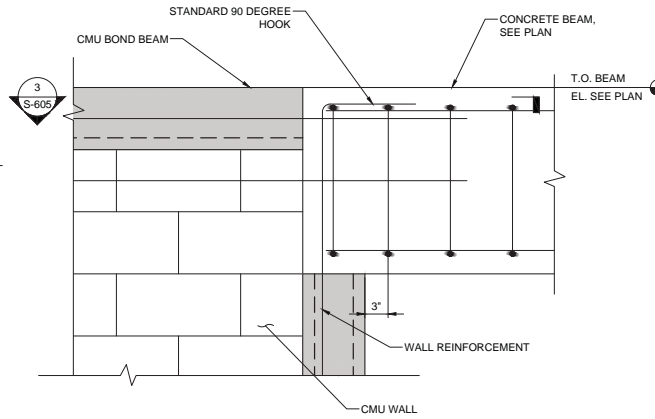


100% CONSTRUCTION DOCUMENTS

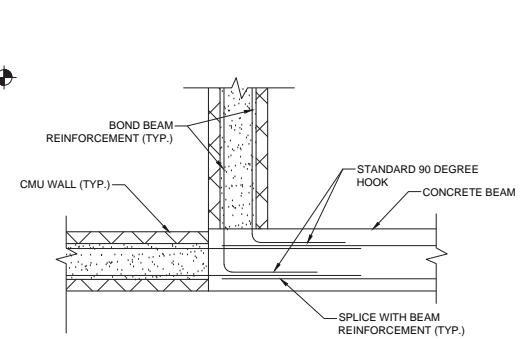
REVISIONS						GAI CONSULTANTS, INC. 600 CRANBERRY WOODS DRIVE, SUITE 400, CRANBERRY TOWNSHIP, PA 16066	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS	DRAWING NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-604	
							SR 8	COLUMBIA	438609-1-52-01	ROOF SECTIONS AND DETAILS		SHEET NO.
												25 OF 26



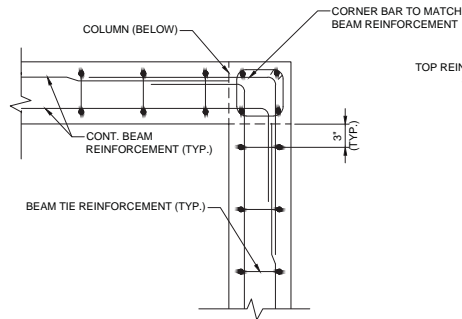
1 RIDGE BEAM CONNECTION DETAIL
S-605 SCALE: 3/4" = 1'-0"



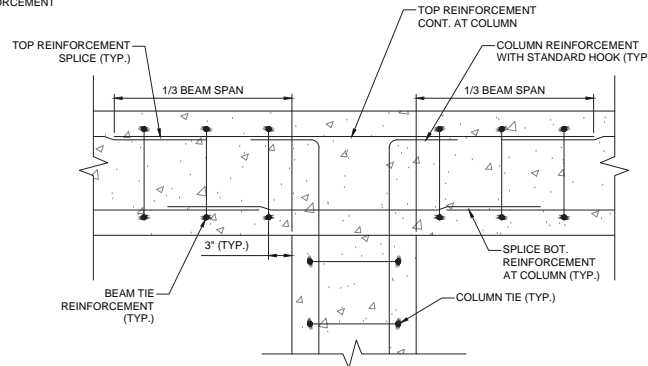
2 CONCRETE BEAM BEARING ON CMU WALL
S-605 SCALE: 3/4" = 1'-0"



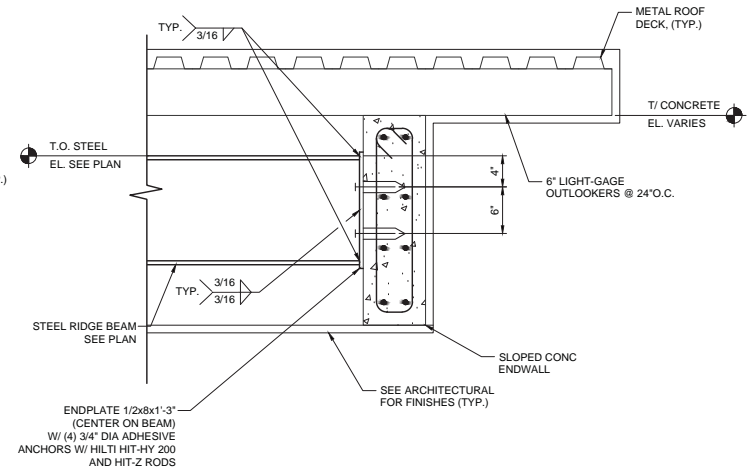
3 CMU BLOCK WALL TO CONCRETE BEAM REINFORCEMENT
S-605 SCALE: 3/4" = 1'-0"



4 TYPICAL CONCRETE BEAM CORNER REINFORCEMENT
S-605 SCALE: 3/4" = 1'-0"



5 TYPICAL CONCRETE BEAM OVER COLUMN DETAIL
S-605 SCALE: 3/4" = 1'-0"



6 RIDGE BEAM CONNECTION DETAIL
S-605 SCALE: 3/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066





























































STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

ROOF SECTIONS AND DETAILS



DRAWING NO.
S-605
SHEET NO.
26 OF 26

Y:\AutoCAD Files\Mechanical\Gals-10 Rest Area - Columbia\Mechanical\M-001 MECHANICAL GENERAL NOTES AND LEGEND.dwg

HVAC SYMBOL LEGEND			
	DUCT-FIRST DIM. IS WIDTH DUCT-SECOND DIM. IS HEIGHT		DUCT TAKE-OFF W/ VOLUME DAMPER
	DUCT ELBOW DOWN		POINT OF CONNECTION NEW TO EXISTING WORK
	DUCT ELBOW UP		POINT OF EXTENT OF REMOVAL OF EXISTING HVAC
	DUCT RISE		THERMOMETER
	DUCT DOWN		PRESSURE GAUGE
	DUCT UNDER POSITIVE PRESSURE		UNION OR FLANGE
	DUCT UNDER NEGATIVE PRESSURE		BALL OR BUTTERFLY VALVE
	ELBOW W/TURNING VANES		CHECK VALVE
	TAKE-OFF W/EXTRACTOR		MODULATING CONTROL VALVE
	FLEXIBLE DUCT		TWO POSITION CONTROL VALVE
	FLEXIBLE CONNECTION		PLUG VALVE W/ MEMORY
	SUPPLY AIR TERMINAL ARROW INDICATES THROW		FLEXIBLE PIPE
	RETURN OR EXHAUST AIR		STRAINER
	LINEAR DIFFUSERS		MANUAL AIR VENT
	SIDE MOUNTED EDH		AUTOMATIC AIR VENT
	BOTTOM MOUNTED EDH		3/4" HOSE END DRAIN PIPE
	FIRE DAMPER		CHILLED WATER SUPPLY
	SMOKE DAMPER		CHILLED WATER SUPPLY
	FIRE/SMOKE DAMPER		HOT WATER SUPPLY
	VOLUME DAMPER		HOT WATER RETURN
	REMOTE VOLUME DAMPER		REFRIGERANT HOT GAS
	MOTORIZED DAMPER		REFRIGERANT LIQUID
	BACKDRAFT DAMPER		REFRIGERANT SUCTION
	SMOKE DETECTOR (DUCT MOUNTED)		CONDENSATE DRAIN
	CEILING ACCESS DOOR		PIPE ELBOW DOWN
	DUCT ACCESS DOOR		PIPE ELBOW UP
	HUMIDITY SENSOR		PIPE ELBOW
	ROOM TEMPERATURE SENSOR		PIPE TEE DOWN
	THERMOSTAT		PIPE TEE UP
	SMOKE DETECTOR		ROUND

DESIGN CONDITION SCHEDULE		
	SUMMER	WINTER
OUTDOOR	94 °F db/78 °F wb	35 °F db
INDOOR	75 °F db/60%RH MAX	70 °F db

HVAC ABBREVIATIONS			
AC	AIR CONDITIONING	HD	HUB DRAIN
AHU	AIR HANDLING UNIT	HOA	HAND/OFF/AUTOMATIC
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER
BDD	BACKDRAFT DAMPER	HVAC	HEATING, VENTILATING & AIR CONDITIONING
BHP	BRAKE HORSEPOWER	H2O	WATER
BMS	BUILDING MANAGEMENT SYSTEM	INIT	INITIAL
BTU	BRITISH THERMAL UNIT	KH	KITCHEN HOOD
CF	CHEMICAL FEEDER	LAT	LVG. AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	LD	LINEAR DIFFUSER
CLG	CEILING	LR	LINEAR RETURN
CYC	CYCLES	LVG	LEAVING
COND	CONDENSATE	LWT	LVG. WATER TEMPERATURE
CC	COOLING COIL	MJA	MAKE UP AIR UNIT (KITCHEN HOOD)
CD	CEILING DIFFUSER	MBH	MEGA BTU PER HOUR
CG	CEILING GRILLE	MD	MOTORIZED DAMPER
DIM	DIMENSION	NC	NOISE CRITERIA
DB	DRY BULB	NIC	NOT IN CONTRACT
°F	DEGREES FAHRENHEIT	OA	OUTSIDE AIR
DWG	DRAWING	OPER	OPERATING
EA	EXHAUST AIR	OV	OUTLET VELOCITY
EAT	ENTERING AIR TEMPERATURE	PCF	PUMP, CHEMICAL FEED
EG	EXHAUST AIR GRILLE	PCH	PUMP, CHILLED WATER
EHC	ELECTRIC HEATING COIL	PD	PRESSURE DROP
EDH	ELECTRIC DUCT HEATER	PH	PHASE
EHU	ELECTRIC UNIT HEATER	RG	RETURN AIR GRILLE
EWH	ELECTRIC WALL HEATER	ROT	ROTATION
ENT	ENTERING	RPM	REVOLUTION PER MINUTE
ER	EXHAUST AIR REGISTER	RVD	REMOTE VOLUME DAMPER
EWT	ENT. WATER TEMPERATURE	SA	SUPPLY AIR
F	FILTER	SENS	SENSIBLE
FCU	FAN COIL UNIT	SD	SPLITTER DAMPER
EF	EXHAUST FAN	SP	STATIC PRESSURE
EGF	EXHAUST FAN, GREASE	SR	SUPPLY AIR REGISTER
FF	FLY FAN	TG	TRANSFER AIR GRILLE
FPI	FINS PER INCH	TEMP	TEMPERATURE
FPM	FEET PER MINUTE	UD	UNDERCUT DOOR
FR	FAN, RETURN	VG	VENT, GRAVITY
SF	SUPPLY FAN	W	WATTS
GPM	GALLONS PER MINUTE	WB	WET BULB
FD	FIRE DAMPER	W/	WITH

						 PROJECT NORTH		100% CONSTRUCTION DOCUMENTS			
REVISIONS						 <div>BOBES ASSOCIATES INCORPORATED 180 CIRCLE DRIVE, MARIETTA, FL 32761 TELEPHONE: 407.438.0302 FAX: 407.438.0303 FLORIDA STATE P.E. NUMBER: 51501 OGS NUMBER JR. P.E., P.E. NUMBER 39410</div>		SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					M-001	
						ROAD NO.		COUNTY	FINANCIAL PROJECT ID	MECHANICAL LEGEND	SHEET NO.
						SR 8		COLUMBIA	438609-1-52-01		

HVAC CONSTRUCTION NOTES

DUCT ACCESSORIES

PART 1 GENERAL

REFERENCES

- A. NFPA 90A - STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS; NATIONAL FIRE PROTECTION ASSOCIATION; CURRENT ADOPTED EDITION.
- B. SMACNA (DCS) - HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE; SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION; 2005.

PART 2 PRODUCTS

AIR TURNING DEVICES/EXTRACTORS

- A. MULTI-BLADE DEVICE WITH BLADES ALIGNED IN SHORT DIMENSION; STEEL CONSTRUCTION; WITH INDIVIDUALLY ADJUSTABLE BLADES, MOUNTING STRAPS.

FLEXIBLE DUCT CONNECTIONS

- B. FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND AS INDICATED.
- C. FLEXIBLE CANVAS DUCT CONNECTIONS: FABRIC CRIMPED INTO METAL EDGING STRIP.

PART 3 EXECUTION

INSTALLATION

- A. INSTALL ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, NFPA 90A, AND FOLLOW SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
- B. AT FANS AND MOTORIZED EQUIPMENT ASSOCIATED WITH DUCTS, PROVIDE FLEXIBLE CANVAS DUCT CONNECTIONS IMMEDIATELY ADJACENT TO THE EQUIPMENT.
- C. AT EQUIPMENT SUPPORTED BY VIBRATION ISOLATORS, PROVIDE FLEXIBLE CANVAS DUCT CONNECTIONS IMMEDIATELY ADJACENT TO THE EQUIPMENT.

DUCTS

PART 1 GENERAL

QUALITY ASSURANCE

- A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE TYPE OF PRODUCTS SPECIFIED IN THIS SECTION, WITH MINIMUM THREE YEARS OF DOCUMENTED EXPERIENCE.

REGULATORY REQUIREMENTS

- A. CONSTRUCT DUCTWORK TO NFPA 90A STANDARDS.

PART 2 PRODUCTS

MATERIALS - LOW AND MEDIUM VELOCITY

- A. GALVANIZED STEEL DUCTS: HOT-DIPPED GALVANIZED STEEL SHEET, ASTM A 653/A 653M FS TYPE B, WITH G60/Z180 COATING.
- B. STEEL DUCTS: ASTM A 1008/A 1008M, DESIGNATION CS, COLD-ROLLED COMMERCIAL STEEL.

DUCTWORK FABRICATION - LOW AND MEDIUM VELOCITY

- A. FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND AS INDICATED. PROVIDE DUCT MATERIAL, GAGES, REINFORCING, AND SEALING FOR OPERATING PRESSURES INDICATED.
- B. CONSTRUCT T'S, BENDS, AND ELBOWS WITH RADIUS OF NOT LESS THAN 1-1/2 TIMES WIDTH OF DUCT ON CENTERLINE. WHERE NOT POSSIBLE AND WHERE RECTANGULAR ELBOWS MUST BE USED, PROVIDE AIR FOIL TURNING VANES. WHERE ACOUSTICAL LINING IS INDICATED, PROVIDE TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION.
- C. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE; MAXIMUM 30 DEGREES DIVERGENCE UPSTREAM OF EQUIPMENT AND 45 DEGREES CONVERGENCE DOWNSTREAM.
- D. ALL DUCTWORK, REGARDLESS OF SERVICE OR PRESSURE CLASS, SHALL BE SEALED AND CHECKED FOR AIR TIGHTNESS; ALL TRANSVERSE AND LONGITUDINAL SEAMS, GAPS, OPENINGS, ETC. SHALL BE SEALED BLANKET WITH MASTIC.
- E. PROVIDE TWO SEPARATE LAYERS/APPLICATIONS OF DUCT MASTIC TO THE METAL DUCTWORK PRIOR TO INSTALLATION OF DUCT INSULATION.

- F. ALL DUCTWORK OUTSIDE OF THE MECHANICAL ROOM SHALL BE EXTERNALLY WRAPPED WITH 2.2" THICK R-6.0 VAPOR SEALED DUCT INSULATION WRAP.
- G. ALL DUCTWORK INSIDE OF THE MECHANICAL ROOM SHALL BE EXTERNALLY INSULATED WITH 1 1/2" R-6 RIGID FIBERGLASS DUCTBOARD.
- H. ALL FIBROUS GLASS INSULATION JOINTS, SEAMS AND CONNECTIONS SHALL BE SEALED WITH FIBERGLASS FABRIC AND 2 COATS OF MASTIC WITH FAB, STAINLESS STEEL STAPLES.
- I. ALL DUCTWORK SHALL BE SUPPORTED PER CODE. PROVIDE HANGER STRAPS FOR ALL DUCTS MADE OF 2" WIDE, 22 GAGE GALVANIZED STEEL- SPACED ACCORDING TO SMACNA STANDARDS AND ALL OTHER APPLICABLE GOVERNING CODES AND STANDARDS.
- J. ALL RIGID AND FLEXIBLE DUCT BRANCH TAKE OFFS FROM MAIN DUCT FOR INDIVIDUAL AIR OUTLETS, INLETS AND BOXES SHALL HAVE BALANCING DAMPERS.
- K. ALL DUCTWORK STORED ON SITE OR ALREADY INSTALLED SHALL HAVE ALL OPEN ENDS SEALED WITH VISQUINE TO PREVENT DUST AND DEBRIS FROM ACCUMULATING INSIDE OF THE DUCTWORK DURING CONSTRUCTION. INTERIORS OF ALL DUCTWORK SHALL BE THOROUGHLY CLEANED PRIOR TO INSTALLATION.
- L. ALL DAMPERS AND EXTRACTORS SHALL HAVE LOCKING QUADRANTS AND SHALL BE ACCESSIBLE.
- M. PROVIDE REMOTE VOLUME DAMPER (RVD) OPERATORS IN ALL NON-ACCESSIBLE CEILINGS. EQUAL TO YOUNG REGULATOR COMPANY MODEL 270-896C BOWDEN CABLE CONTROL UNIT OR METROPOLITAN AIR. CONTROL FOR EACH REMOTE VOLUME DAMPER SHALL BE LOCATED WITHIN THE DIFFUSER OR REGISTER BEING SERVED OR IN THE HARD CEILING NEAR THE REGISTER OF DIFFUSER.
- N. BEVELED TAKE OFFS AND DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCTWORK LEADING FROM MAIN TRUNK LINES.
- O. ALL SPLITTER DAMPERS SHALL BE BALANCED AND SET PRIOR TO THE INSTALLATION OF THE CEILING.
- P. ALL FANS AND AIR HANDLING UNITS SHALL BE PROPERLY SUPPORTED AND ISOLATED TO PREVENT NOISE AND VIBRATION TRANSMISSION. ALL AIR HANDLING EQUIPMENT SHALL BE SUPPORTED OR SUSPENDED WITH SPRING ISOLATORS. ALL CONNECTIONS BETWEEN FANS OR AIR HANDLING UNITS AND DUCTWORK SHALL BE CANVAS FLEXIBLE CONNECTORS.
- Q. ALL CONDENSING UNITS SHALL BE MOUNTED ON 4" THICK REINFORCED CONCRETE PADS AND SHALL BE SECURED TO THE CONCRETE PAD WITH 2" WIDE 10 GAUGE GALVANIZED STEEL STRAPS EVERY 24" ON CENTER. INSTALLATION SHALL MEET THE WINDLOAD REQUIREMENTS OF THE 2017 FLORIDA BUILDING CODE (6TH EDITION).
- R. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE AND SMOKE RATED PARTITIONS. ALL PENETRATIONS THROUGH FIRE RATED/SMOKE RATED PARTITIONS OR FLOORS AND CEILINGS SHALL HAVE FIRE/SMOKE DAMPERS. ALL FIRE WALL PENETRATIONS SHALL HAVE FIRE DAMPERS. PROVIDE ACCESS DOORS IN WALL OR HARD CEILING FOR THESE DAMPERS.
- S. PROVIDE ACCESS PANELS IN DRYWALL CEILINGS AS REQUIRED FOR ACCESS TO MECHANICAL EQUIPMENT. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE WORK PLATFORMS AS REQUIRED FOR ALL EQUIPMENT LOCATED WITHIN THE CEILING SPACE.
- T. FURNISH AND INSTALL INSULATED PVC CONDENSATE DRAINS WITH TRAPS FOR ALL COOLING COILS. DRAIN LINE SIZE SHALL MATCH THE OPENING OF THE CONDENSATE DRAIN PAN.
- U. ALL REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING SHALL BE FULLY SUPPORTED IT'S ENTIRE LENGTH AND SHALL BE ANCHORED TO PREVENT SWAY AND VIBRATION. PROVIDE SUPPORT EVERY 4'-0" ON CENTER.
- V. CONTRACTOR SHALL SUPPLY AND WIRE SMOKE DETECTORS IN THE SUPPLY AIR DUCTWORK AND RETURN AIR DUCTWORK OF ALL AIR HANDLING UNITS TO SHUT DOWN THE FANS IN THE EVENT OF A FIRE. DUCT SMOKE DETECTOR SHALL BE OF PHOTOELECTRIC TYPE AND SHALL BE LOW VOLTAGE. DIVISION 23 CONTRACTOR SHALL INSTALL ALL SMOKE DETECTORS. INSTALLATION OF DUCT SMOKE DETECTORS SHALL MEET ALL OF THE REQUIREMENTS PRESCRIBED IN NFPA 90A AND NFPA 72.
- W. ALL WALL SENSORS, VARIABLE SPEED CONTROL SWITCHES, ON-OFF SWITCHES AND MOTOR STARTERS SHALL BE INDIVIDUALLY LABELED. LABELS SHALL INDICATED THE UNIT CONTROLLED, TYPE OF CONTROL AND AREA SERVED. THE LABELS SHALL BE PLASTIC LAMINATE, PERMANENT TYPE, WHITE WITH BLACK LETTERING, AND SHALL BE MOUNTED INSIDE OF THE COVER PLATE, OF THE CONTROL DEVICE.

- X. COORDINATE ALL CONTROL DEVICES WITH THE ELECTRICAL CONTRACTOR.
- Y. ALL CONTROL WIRING, CONDUIT AND HARDWARE TO COMPLETE THE HVAC CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23 - MECHANICAL.
- Z. ALL CONTROL WIRING AND INTERLOCK WIRING LOCATED IN MECHANICAL ROOMS AND IN NON ACCESSIBLE CEILINGS SHALL BE IN CONDUIT.
- AA. THERMOSTATS SHALL BE LOCATED 48"-54" ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS AND THE 2017 FLORIDA ACCESSIBILITY CODE.
- AB. AIR FILTERS SHALL BE 2" PLEATED 30% EFFICIENT (MIN.) OR EQUAL IN AIR HANDLING EQUIPMENT. FILTERS SHALL BE INSTALLED PRIOR TO UNIT START UP, REPLACED A MINIMUM OF ONCE PER MONTH DURING THE CONSTRUCTION PERIOD, REPLACED PRIOR TO TEST AND BALANCE, AND REPLACED MONTHLY UNTIL FINAL COMPLETION.
- AC. ALL DUCTWORK, REGARDLESS OF SERVICE OR PRESSURE CLASS, SHALL BE SEALED AND CHECKED FOR AIR TIGHTNESS; ALL TRANSVERSE AND LONGITUDINAL SEAMS, GAPS, OPENINGS, ETC. SHALL BE SEALED WITH MASTIC.

MISCELLANEOUS

- A. ALL REFRIGERANT LINES FOR SPLIT SYSTEM DX UNITS SHALL HAVE FILTER DRYERS AND SIGHT GLASSES. ALL REFRIGERANT PIPING BELOW SLAB SHALL BE WITHOUT JOINTS AND SHALL BE RUN IN A PVC PIPING CHASE OR CONDUIT OF SUFFICIENT SIZE TO ALLOW REPLACEMENT OF THE PIPING IN THE FUTURE. UTILIZE LONG SWEEP ELBOWS. EACH END OF THE PVC CHASE SHALL BE SEALED AIR TIGHT AND WATERTIGHT.
- B. ALL REFRIGERANT PIPING EXPOSED TO THE EXTERIOR SHALL BE INSULATED WITH 1" THICK CLOSED CELL FOAM INSULATION (ARMAFLEX) AND SHALL BE WRAPPED WITH ALUMINUM JACKETING.
- C. ALL REFRIGERANT PIPING IN CONCEALED CHASES FOR SPLIT SYSTEM DX UNITS SHALL BE SOFT DRAWN TYPE K COPPER. SERVICE FITTINGS FOR REFRIGERANT LINES SHALL BE LOCATED IN A MANNER TO BE INACCESSIBLE TO THE PUBLIC.


PART 3 EXECUTION

INSTALLATION

- A. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- B. INSTALL AND SEAL METAL AND FLEXIBLE DUCTS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
- C. LOCATE DUCTS WITH SUFFICIENT SPACE AROUND EQUIPMENT TO ALLOW NORMAL OPERATING AND MAINTENANCE ACTIVITIES.
- D. PROVIDE RESIDUE TRAPS IN KITCHEN HOOD EXHAUST DUCTS AT BASE OF VERTICAL RISERS WITH PROVISIONS FOR CLEAN OUT. PROVIDE TWO SEPARATE LAYERS/APPLICATIONS OF DUCT MASTIC ON THE METAL DUCTWORK.
- E. DURING CONSTRUCTION PROVIDE TEMPORARY CLOSURES OF METAL OR TAPED POLYETHYLENE ON OPEN DUCTWORK TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM.

EQUIPMENT IDENTIFICATION

- A. IDENTIFY EACH UNIT BY ITS SYSTEM NUMBER AND OTHER APPROPRIATE DESIGNATION BY STENCILING IN LETTERS OF APPROVED SIZE AND WORDING. EQUIPMENT REQUIRING IDENTIFICATION SHALL INCLUDE PACKAGED AND SPLIT SYSTEM AIR CONDITIONING UNITS, VAV BOXES AND HEATING UNIT. FIELD COORDINATE BEFORE ORDERING SO THAT EQUIPMENT NAME PLATES MATCH EXISTING.

REVISIONS						 PROJECT NORTH	100% CONSTRUCTION DOCUMENTS		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.
							HVAC CONSTRUCTION NOTES		SHEET NO.

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Augusto E. Bobes Jr., P.E. No. 39410

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION



ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

HVAC GENERAL NOTES

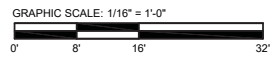
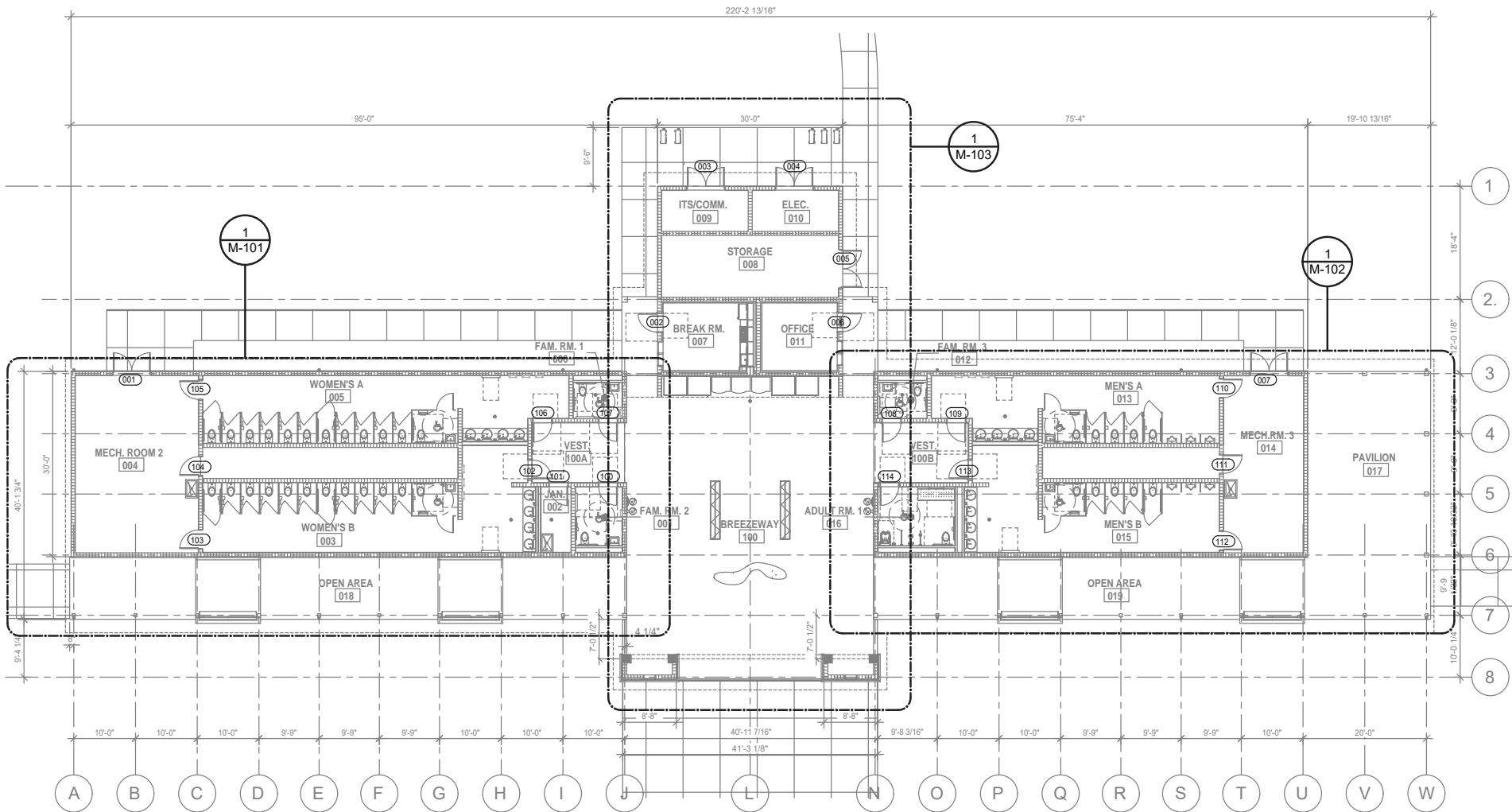
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (6TH EDITION), THE 2017 FLORIDA MECHANICAL CODE (6TH EDITION), THE 2017 FLORIDA ENERGY EFFICIENCY CODE (6TH EDITION) AND THE FDOT REQUIREMENTS AND ALL OTHER APPLICABLE CODES AND STANDARDS.
2. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT FOR A COMPLETE AIR CONDITIONG SYSTEM INCLUDING, CONTRLS, CONTROL PROGRAMING, CONTROL WIRING, GALVANIZED SHEET METAL PLENUMS AND ALL FITTINGS, SPECIALTIES, ANCHORING/SUPPORTING OF EQUIPMENT, AUXILIARY MATERIALS AND ACCESSORIES AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE OF THE WORK AND BECOME FAMILIAR WITH ALL AVAILABLE INFORMATION REGARDING THE LOCATION OF EXISTING FACILITIES. FAILURE OF THE CONTRACTOR TO FULLY INFORM HIMSELF OF ALL EXISTING CONDITIONS WILL NOT BE CAUSE FOR ADDITIONAL COMPENSATION.
4. ALL EQUIPMENT AND MATERIALS USED IN THIS INSTALLATION SHALL BE NEW, OF APPROVED QUALITY AND MANUFACTURE AND, UNLESS OTHERWISE NOTED, SHALL BE STANDARD CATALOG ITEMS OF THE VARIOUS MANUFACTURERS. EACH COMPONENT OF THE WORK SHALL BE COMPLETE, CONNECTED AND CAPABLE OF SATISFACTORY FUNCTIONAL OPERATION.
5. FOLLOW REQUIREMENTS OF THE FLORIDA BUILDING CODES, REGULATIONS, ORDINANCES, ETC., OF THE STATE, COUNTY, AND/OR MUNICIPALITY, IN WHICH THE CONSTRUCTION IS LOCATED, AND ANY GOVERNMENT ENTITY HAVING JURISDICTION OVER THIS WORK.
6. ALL EQUIPMENT SHALL FIT THE ALLOTTED SPACE AND SHALL PROVIDE ADEQUATE ACCESS/ROOM FOR SERVICING AND REPAIRS. GREATER SPACE AND ROOM REQUIRED BY SUBSTITUTED EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR AND AT HIS EXPENSE AND MEETING THE APPROVAL OF THE DESIGN ENGINEER.
7. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS IN THE FIELD FOR EQUIPMENT, DUCTWORK AND ROOF PENETRATIONS. PRIOR TO FABRICATION OF ANY DUCTWORK THE CONTRACTOR SHALL PREPARE AND SUBMIT A 1/4" SCALE COORDINATED SHOP DRAWING ON AUTOCAD OF ALL DUCTWORK, PIPING, AND HVAC EQUIPMENT FOR THE ENTIRE BUILDING.
8. PRIOR TO ORDERING HVAC EQUIPMENT AND FABRICATION OF ANY DUCTWORK THE CONTRACTOR SHALL PREPARE AND SUBMIT A 1/4" SCALE COORDINATED SHOP DRAWING OF EACH MECHANICAL ROOM. THESE DRAWINGS SHALL INCLUDE THE DIMENSIONS AND REQUIRED MAINTENANCE CLEARANCES OF THE ACTUAL EQUIPMENT PROPOSED FOR THE PROJECT. THESE DRAWINGS SHALL ALSO INCLUDE ALL DUCTWORK, EQUIPMENT, HEATERS, DISCONNECTS, PIPING, AND THEIR REQUIRED ACCESS CLEARANCES. FAILURE TO SUBMIT THESE DRAWINGS RELIEVES THE ENGINEER OF ALL RESPONSIBILITY FOR THE MECHANICAL ROOM LAYOUT.
9. REFER TO ARCHITECTURAL DRAWINGS FOR CLEARANCES WITHIN THE CEILING SPACE, MECHANICAL ROOMS, LOCATIONS AND SIZES OF BEAMS AND CEILING AND SOFFIT HEIGHTS.
10. DRAWINGS ARE DIAGRAMMATIC IN NATURE. COORDINATE EXACT LOCATION OF ALL EQUIPMENT MOUNTED IN CEILING CAVITY SO ALL SERVICEABLE COMPONENTS CAN BE EASILY ACCESSED BY REMOVING CEILING TILES ONLY. REMOVAL OR RELOCATION OF LIGHTING FIXTURES FOR SERVICE ACCESS IS NOT ACCEPTABLE. THE CONTRACTOR SHALL REINSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY. LOCATE ALL EQUIPMENT WITH MANUFACTURER RECOMMENDED ACCESS FOR OPERATION AND MAINTENANCE.
11. PRIOR TO BID, CHECK LEAD TIMES OF ALL EQUIPMENT IN THE PROJECT. IF NECESSARY TO MEET THE PROJECT SCHEDULE, BID SHALL INCLUDE THE COST TO ACCELERATE DELIVERY OF CRITICAL MATERIALS AND EQUIPMENT. ALLOW TIME FOR NORMAL SHOP DRAWING PREPARATION AND REVIEW.
12. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN EQUIPMENT DIMENSIONS AND SPACE ALLOTMENTS, THEY SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING AND SHALL NOT PROCEED WITH THE WORK UNTIL HE HAS RECEIVED WRITTEN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED ON THE PLANS, THE COST OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.
14. DUCTWORK AND EQUIPMENT LOCATIONS AND CLEARANCES SHALL BE COORDINATED WITH GENERAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL CONTRACTORS. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR BUILDING SECTIONS AND DETAILS.
15. CONNECTION TO ALL EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURERS CERTIFIED DRAWINGS. DUCT TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR ALL AIR HANDLING EQUIPMENT.
16. COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATION WITH LIGHTING, SPRINKLER AND ARCHITECTURAL CEILING PLANS. COORDINATE THE TYPE OF DIFFUSER FRAME WITH THE CEILING TYPE.
17. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN EQUIPMENT DIMENSIONS AND SPACE ALLOTMENTS THEREFORE, HE SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING AND SHALL NOT PROCEED WITH THE WORK UNTIL HE HAS RECEIVED WRITTEN INSTRUCTIONS FROM THE CONSTRUCTION MANAGER.
18. THE CONTRACTOR SHALL DO NO CUTTING THAT MAY IMPAIR STRENGTH OF BUILDING CONSTRUCTION. NO HOLES, EXCEPT FOR SMALL SCREWS, MAY BE DRILLED IN BEAMS, DOUBLE-TEES OR OTHER STRUCTURAL MEMBERS WITHOUT OBTAINING PRIOR APPROVAL OF THE CONSTRUCTION MANAGER.
19. CUTTING AND PATCHING - UNLESS OTHERWISE INDICATED, PERFORM ALL CUTTING AND PATCHING NECESSARY FOR THE WORK. PATCH AND PAINT AFFECTED AREAS TO MATCH EXISTING CONDITIONS INCLUDING MATERIAL OF CONSTRUCTION, WHERE INTERFERENCES OCCUR, AND DEPARTURES FROM INDICATED ARRANGEMENTS ARE REQUIRED. COORDINATE THE MECHANICAL/ELECTRICAL/STRUCTURAL WORK WITH THE OTHER TRADES INVOLVED AND MAKE A DETERMINATION AS TO CHANGES AND SHALL OBTAIN APPROVAL FROM THE DEPARTMENT FOR THE PROPOSED CHANGES.
20. ALL ROTATING EQUIPMENT SHALL BE STATICALLY AND DYNAMICALLY BALANCED. UNLESS OTHERWISE SPECIFIED, THE VIBRATION ALLOWANCE IN THE UNITS SHALL NOT EXCEED THE UPPER LIMITS AS ESTABLISHED BY THE EQUIPMENT MANUFACTURER.
21. THE CONTRACTOR SHALL FURNISH ALL ELECTRICAL WORK ASSOCIATED WITH MECHANICAL EQUIPMENT, INCLUDING ELECTRICAL CONTROLS, SWITCHES, CONTACTORS AND STARTERS FOR ALL EQUIPMENT ITEMS REQUIRING SAME. ALL ELECTRICAL WORK SHALL CONFORM IN ALL RESPECTS TO THE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE.
22. UNLESS OTHERWISE INDICATED, METAL FASTENERS AND RELATED PARTS SHALL BE OF ALUMINUM OR STAINLESS STEEL AND SHALL BE OF ADEQUATE STRENGTH FOR THE PURPOSE INTENDED.
23. LEAVE CONCEALED WORK UNCOVERED UNTIL REQUIRED TESTS HAVE BEEN COMPLETED, BUT IF NECESSARY TO MAKE TESTS ON PORTIONS OF THE WORK, THOSE PORTIONS OF THE WORK MAY BE CONCEALED AFTER BEING INSPECTED AND APPROVED. REPAIR DEFECTS THAT ARE DISCOVERED AS A RESULT OF INSPECTIONS OR TESTS WITH NEW MATERIALS. CAULKING, PEELING OR SOLDERING OF SCREWED JOINTS, CRACKS, OR HOLES WILL NOT BE ACCEPTED. REPEAT TESTS AFTER DEFECTS HAVE BEEN CORRECTED.
24. VERIFY ALL SPACE CONDITIONS AT JOB SITE PRIOR TO FABRICATION OF DUCTWORK AND PURCHASE OF EQUIPMENT. NOTIFY ENGINEER OF ANY SPATIAL CONFLICTS THAT COULD AFFECT THE PROJECT. DO NO WORK UNTIL ALL CONFLICTS ARE RESOLVED. BEGINNING OF INSTALLATION WILL BE CONSTRUED AS ACCEPTANCE OF SPATIAL CONDITIONS.
25. VERIFY ALL CONNECTION TO EQUIPMENT WITH MANUFACTURER'S CERTIFIED DRAWINGS. DO NOT SCALE DRAWINGS. PROVIDE TRANSITIONS TO ALL EQUIPMENT AS REQUIRED.
26. COORDINATE DUCTWORK WITH OTHER DISCIPLINES PRIOR TO FABRICATION AND INSTALLATION. PROVIDE ANY OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES AS REQUIRED. PIPING IS SHOWN DIAGRAMMATICALLY AND SHALL BE ADJUSTED AS REQUIRED TO SUIT EXISTING OR FIELD CONDITIONS.
27. COORDINATE AVAILABLE ELECTRICAL CHARACTERISTICS AT JOB SITE WITH MECHANICAL EQUIPMENT'S ELECTRICAL REQUIREMENTS INDICATED IN MECHANICAL SCHEDULES PRIOR TO SUBMITTING SHOP DRAWINGS AND ORDERING EQUIPMENT.
28. ALL EQUIPMENT, DUCTWORK AND PIPING, ETC., SHALL BE PROPERLY SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
29. COMBUSTIBLE MATERIAL
- A. ALL PROJECT MATERIALS SHALL HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50.
30. THE AIRFLOW OF ALL HVAC SYSTEMS SHALL BE BALANCED BASED ON THE ACTUAL INSTALLED STATIC PRESSURE OF THE AIR DISTRIBUTION SYSTEM. CONTRACTOR SHALL PROVIDE POSITIVE MEANS FOR BALANCING EACH INDIVIDUAL AIR OUTLET AND INLET.
31. THE CONTRACTOR SHALL HIRE AN INDEPENDANT TEST AND BALANCE FIRM TO TEST AND BALANCE ALL AIR CONDITIONING SYSTEMS-SEE SPECIFICATIONS. THE TEST & BALANCE CONTRACTOR SHALL BE CERTIFIED BY NEBB OR ABAA.
32. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE TEST AND BALANCE FIRM. PRIOR TO TEST AND BALANCE, THE CONTRACTOR SHALL START-UP, PRE-BALANCE THE SYSTEM, AND REPLACE ALL AIR FILTERS FOR EVERY AHU BEING TESTED. ALL DISCREPANCIES, DRIVE CHANGES, ETC. REPORTED BY ENGINEER OR THE TEST AND BALANCE FIRM SHALL BE CORRECTED BY THE CONTRACTOR WITHIN FIVE CALENDAR DAYS AT NO ADDITIONAL COST. THE TEST & BALANCE REPORT SHALL BE APPROVED PRIOR TO SUBSTANTIAL COMPLETION.
33. THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE THAT SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR. DURING THE FIRST YEAR ALL SYSTEM MALFUNCTIONS SHALL BE REPAIRED AND ALL DEFECTIVE EQUIPMENT SHALL BE REPLACED AT NO EXPENSE TO THE OWNER. THE COMPRESSORS SHALL HAVE A 5 YEAR WARRANTY (LABOR & MATERIALS).
34. OPERATION AND MAINTENANCE MANUALS SHALL INCLUDE AS A SEPARATE SUBMITTAL ITEM, PREVENTATIVE MAINTENANCE REQUIREMENTS ALONG WITH TIME SCHEDULE(S) FOR EACH ITEM. THE SEQUENCE OF OPERATION SHALL ALSO INCLUDE A DEFINITIVE SEQUENCE OF OPERATION OF THE MECHANICAL SYSTEM AND COMPONENTS AS THEY FUNCTION INTEGRALLY AND INDEPENDENTLY WITH THE SYSTEM.
35. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED PERMITS.
36. ALL CHANGES MADE IN THE FIELD SHALL BE RECORDED BY THE CONTRACTOR ON THE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL PREPARE REDLINED AS-BUILT DRAWINGS OF THE INSTALLED HVAC SYSTEMS AT THE COMPLETION OF THE PROJECT CONSTRUCTION AND SHALL INCLUDE THOSE AS-BUILT DRAWINGS AT PROJECT CLOSEOUT ALONG WITH THE O&M MANUAL AND EQUIPMENT AND PROJECT WARRANTIES.
37. PRIOR TO ORDERING ANY HVAC EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, PIPING ETC. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND SHALL OBTAIN APPROVAL FROM THE ENGINEER.
38. THE CONTRACTOR SHALL PROVIDE A COMPLETE HVAC SHOP DRAWING SUBMITTAL TO THE ENGINEER FOR REVIEW AND APPROVAL. THE HVAC SUBMITTAL SHALL INCLUDE ALL AIR CONDITIONING EQUIPMENT, FANS, HEATERS, PUMP, PIPING DUCTWORK, INSULATION, DIFFUSERS, REGISTERS & GRILLES, CONTROLS, DAMPERS, HANGERS ETC. CONTRACTOR SHALL NOT ORDER ANY HVAC EQUIPMENT UNTIL THIS SUBMITTAL IS REVIEWED AND ACCEPTED BY THE ENGINEER OF RECORD. CONTRACTOR SHALL SUBMIT THE SHOP DRAWING AS ONE COMPLETE SUBMITTAL AND SHALL NOT PIECE MEAL THE SUBMITTAL SPREAD OUT OVER THE COURSE OF DAYS AND WEEKS. FAILURE TO SUBMIT A COMPLETE HVAC SHOP DRAWING SUBMITTAL SHALL RESULT IN AN IMMEDIATE REJECTION OF THE SHOP DRAWING SUBMITTAL.

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						 PROJECT NORTH		100% CONSTRUCTION DOCUMENTS							
REVISIONS						 <div>BOBES ASSOCIATES GENERAL ENGINEERING & ARCHITECTURE 100 GORLE DRIVE, MAITLAND, FL 32751 TELEPHONE: 407.438.2843 FAX: 407.438.2843 E-MAIL: EBOBES@BOBESASSOCIATES.COM FLORIDA STATE P.E. NUMBER 0151 900 BOBES JR. P.E., P.E. NUMBER 39410</div> Augusto E. Bobes Jr., P.E. No. 39410		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.			
DATE		BY		DESCRIPTION								M-003			
DATE		BY		DESCRIPTION				ROAD NO.		COUNTY		FINANCIAL PROJECT ID		SHEET NO.	
								SR 8		COLUMBIA		438609-1-52-01		GENERAL HVAC NOTES	

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1 M-100 HVAC OVERALL PLAN
SCALE: 1/16" = 1'-0"

PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
		M-100	
		SHEET NO.	

REVISIONS			
DATE	BY	DESCRIPTION	

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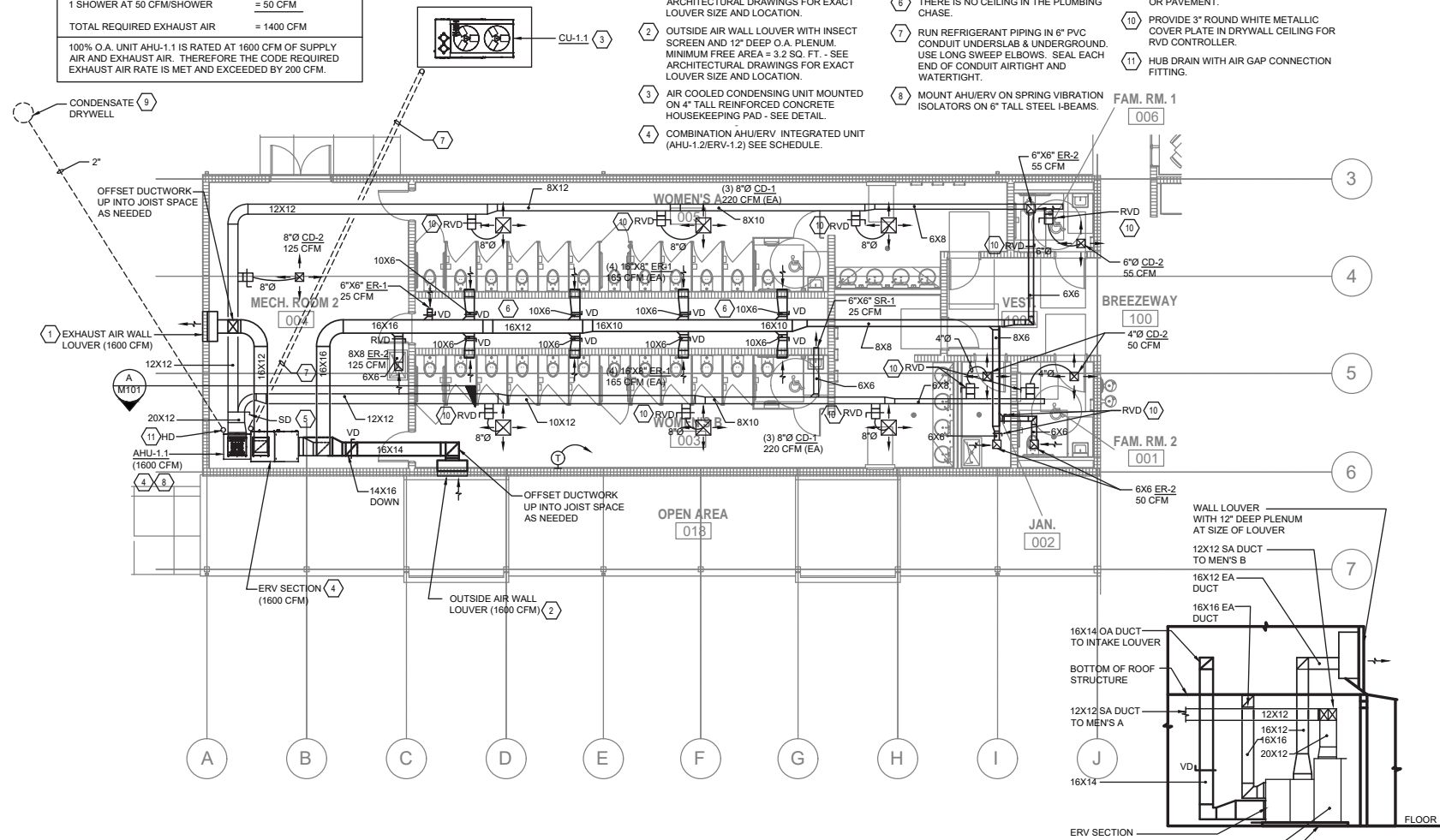
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

M-100 HVAC OVERALL PLAN	
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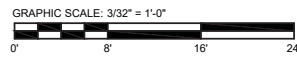
EXHAUST AIR CALCULATION - WOMEN'S RR		
26 WATER CLOSETS AT 50 CFM/WC	=	1300 CFM
1 MOP SINK AT 50 CFM/WC	=	50 CFM
1 SHOWER AT 50 CFM/SHOWER	=	50 CFM
TOTAL REQUIRED EXHAUST AIR	=	1400 CFM
100% O.A. UNIT AHU-1.1 IS RATED AT 1600 CFM OF SUPPLY AIR AND EXHAUST AIR. THEREFORE THE CODE REQUIRED EXHAUST AIR RATE IS MET AND EXCEEDED BY 200 CFM.		

HVAC KEY NOTES

- EXHAUST AIR WALL LOUVER WITH INSECT SCREEN AND 12" DEEP E.A. PLENUM. MINIMUM FREE AREA = 3.2 SQ. FT. - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOUVER SIZE AND LOCATION.
- OUTSIDE AIR WALL LOUVER WITH INSECT SCREEN AND 12" DEEP O.A. PLENUM. MINIMUM FREE AREA = 3.2 SQ. FT. - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOUVER SIZE AND LOCATION.
- AIR COOLED CONDENSING UNIT MOUNTED ON 4" TALL REINFORCED CONCRETE HOUSEKEEPING PAD - SEE DETAIL.
- COMBINATION AHU/ERV. INTEGRATED UNIT (AHU-1.2/ERV-1.2) SEE SCHEDULE.
- SPLITTER DAMPER.
- THERE IS NO CEILING IN THE PLUMBING CHASE.
- RUN REFRIGERANT PIPING IN 6" PVC CONDUIT UNDERSLAB & UNDERGROUND. USE LONG SWEEP ELBOWS. SEAL EACH END OF CONDUIT AIRTIGHT AND WATERTIGHT.
- MOUNT AHU/ERV ON SPRING VIBRATION ISOLATORS ON 6" TALL STEEL I-BEAMS.
- COORDINATE EXACT LOCATION OF DRYWELL WITH SITE PLAN - DO NOT LOCATE DRYWELL BENEATH SIDEWALKS OR PAVEMENT.
- PROVIDE 3" ROUND WHITE METALLIC COVER PLATE IN DRYWELL CEILING FOR RVD CONTROLLER.
- HUB DRAIN WITH AIR GAP CONNECTION FITTING.



1 M-101 ENLARGED WOMEN'S ROOM HVAC PLAN
SCALE: 3/32" = 1'-0"



PROJECT NORTH **100% CONSTRUCTION DOCUMENTS**

REVISIONS			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
						SR 8	COLUMBIA	438609-1-52-01
						M-101 ENLARGED WOMEN'S ROOM HVAC PLAN		
						M-101		
						SHEET NO.		

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Augusto E. Bobes Jr., P.E. No. 39410

HVAC KEY NOTES

- EXHAUST AIR WALL LOUVER WITH INSECT SCREEN AND 12" DEEP E.A. PLENUM. MINIMUM FREE AREA = 3.2 SQ. FT. - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOUVER SIZE AND LOCATION.
- OUTSIDE AIR WALL LOUVER WITH INSECT SCREEN AND 12" DEEP O.A. PLENUM. MINIMUM FREE AREA = 3.2 SQ. FT. - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOUVER SIZE AND LOCATION.

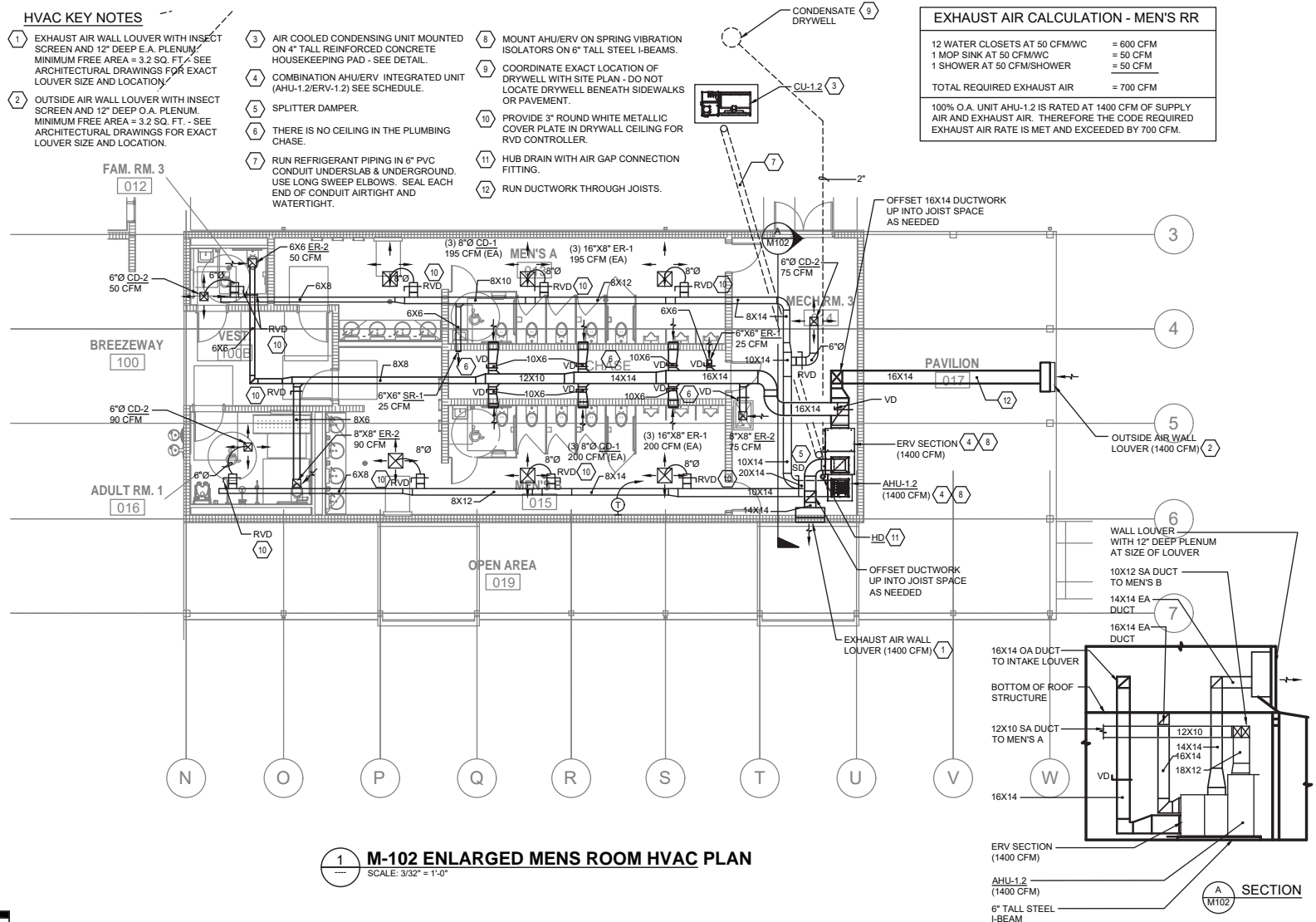
- AIR COOLED CONDENSING UNIT MOUNTED ON 4" TALL REINFORCED CONCRETE HOUSEKEEPING PAD - SEE DETAIL.
- COMBINATION AHU/ERV INTEGRATED UNIT (AHU-1.2/ERV-1.2) SEE SCHEDULE.
- SPLITTER DAMPER.
- THERE IS NO CEILING IN THE PLUMBING CHASE.
- RUN REFRIGERANT PIPING IN 6" PVC CONDUIT UNDERSLAB & UNDERGROUND. USE LONG SWEEP ELBOWS. SEAL EACH END OF CONDUIT AIRTIGHT AND WATERTIGHT.

- MOUNT AHU/ERV ON SPRING VIBRATION ISOLATORS ON 6" TALL STEEL I-BEAMS.
- COORDINATE EXACT LOCATION OF DRYWELL WITH SITE PLAN - DO NOT LOCATE DRYWELL BENEATH SIDEWALKS OR PAVEMENT.
- PROVIDE 3" ROUND WHITE METALLIC COVER PLATE IN DRYWELL CEILING FOR RVD CONTROLLER.
- HUB DRAIN WITH AIR GAP CONNECTION FITTING.
- RUN DUCTWORK THROUGH JOISTS.

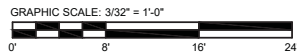
EXHAUST AIR CALCULATION - MEN'S RR

12 WATER CLOSETS AT 50 CFM/WC	= 600 CFM
1 MOP SINK AT 50 CFM/WC	= 50 CFM
1 SHOWER AT 50 CFM/SHOWER	= 50 CFM
TOTAL REQUIRED EXHAUST AIR	= 700 CFM

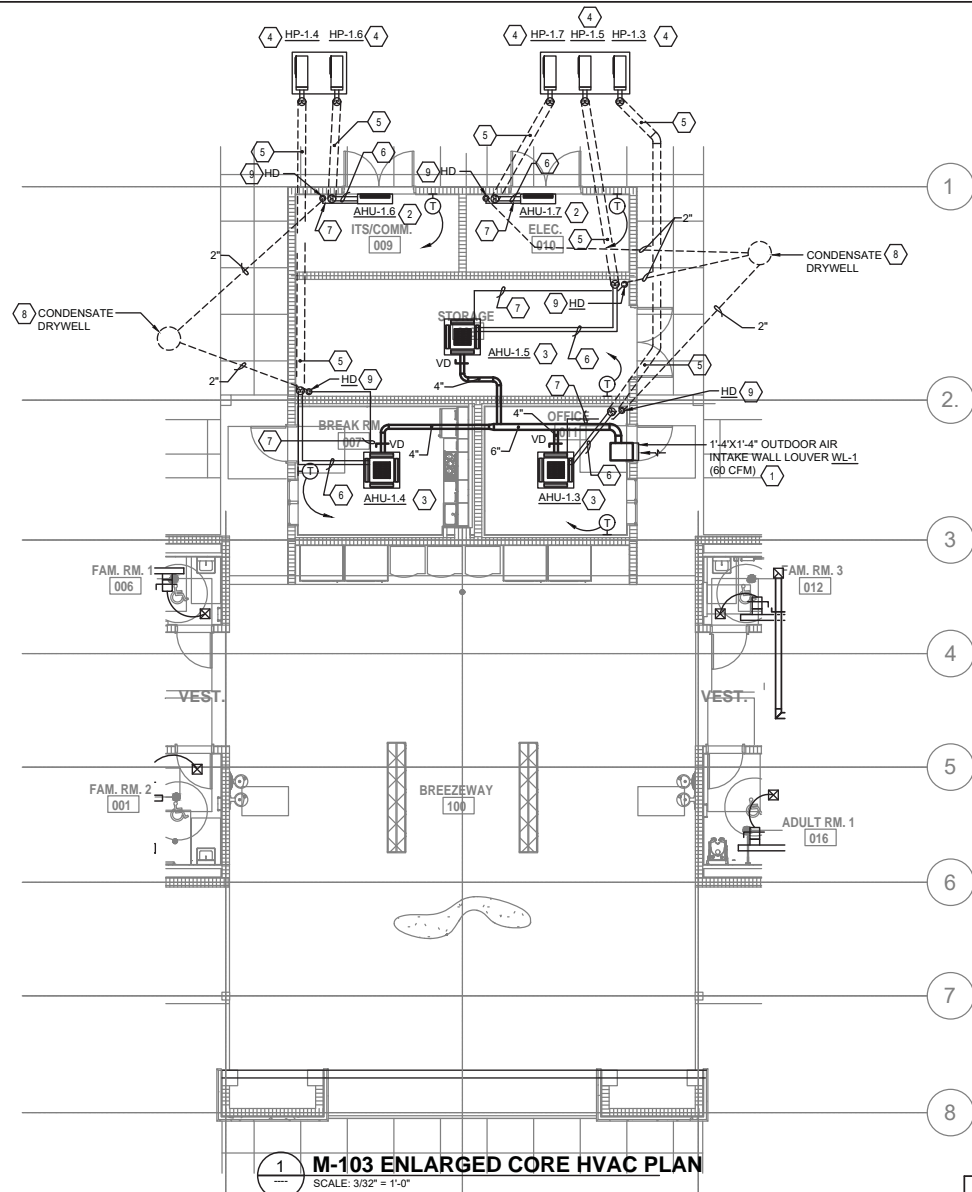
100% O.A. UNIT AHU-1.2 IS RATED AT 1400 CFM OF SUPPLY AIR AND EXHAUST AIR. THEREFORE THE CODE REQUIRED EXHAUST AIR RATE IS MET AND EXCEEDED BY 700 CFM.



1 M-102 ENLARGED MENS ROOM HVAC PLAN
SCALE: 3/32" = 1'-0"



PROJECT NORTH			100% CONSTRUCTION DOCUMENTS	
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA			DRAWING NO.	M-102
M-102 ENLARGED MENS ROOM HVAC PLAN			SHEET NO.	xx

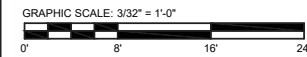


HVAC KEY NOTES

- 1 WALL LOUVER WITH INSECT SCREEN AND 12" DEEP PLENUM. MINIMUM FREE AREA = 3.2 SQ. FT. - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOUVER SIZE AND LOCATION.
- 2 WALL MOUNTED CARTRIDGE TYPE AIR HANDLING UNIT WITH PUMPED CONDENSATE.
- 3 CEILING MOUNTED CASSETTE TYPE AIR HANDLING UNIT WITH PUMPED CONDENSATE AND OUTSIDE AIR CONNECTION.
- 4 AIR COOLED HEAT PUMP UNIT ON 4" TALL REINFORCED CONCRETE HOUSEKEEPING PAD.
- 5 RUN REFRIGERANT LINES IN 4" PVC CONDUIT UNDERGROUND AND UNDER SLAB - USE LONG SWEEP ELBOWS. SEAL EACH END OF CONDUIT AIRTIGHT AND WATERTIGHT.
- 6 RUN INSULATED REFRIGERANT PIPING IN CEILING SPACE TO AHU.
- 7 RUN PUMPED CONDENSATE IN CEILING SPACE TO HUB BRAIN (HD). PROVIDE AIR GAP CONNECTION FITTING AT HUB DRAIN.
- 8 COORDINATE EXACT LOCATION OF DRYWELL WITH SITE PLAN - DO NOT LOCATE DRYWELL BENEATH SIDEWALKS OR PAVEMENT.
- 9 HUB DRAIN WITH AIR GAP FITTING.

M-103 ENLARGED CORE HVAC PLAN
SCALE: 3/32" = 1'-0"

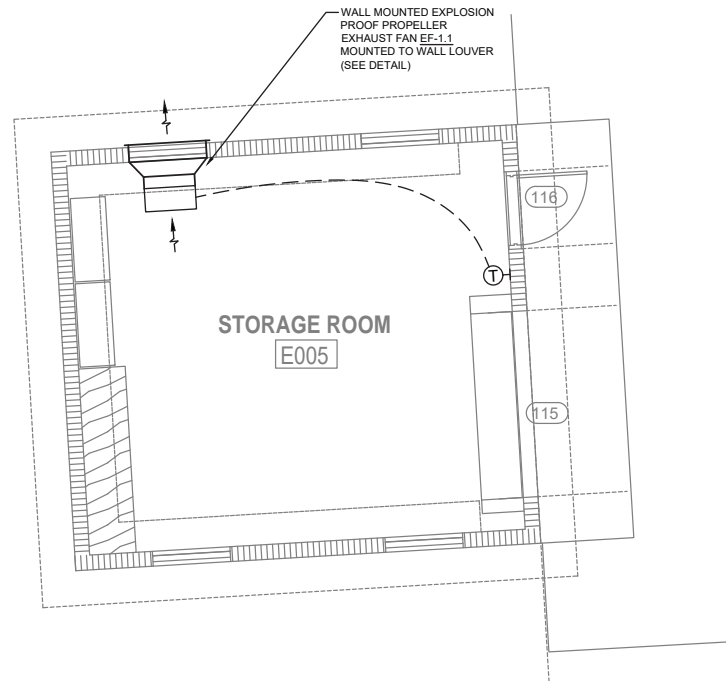
PROJECT NORTH **100% CONSTRUCTION DOCUMENTS**



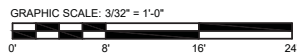
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	M-103 ENLARGED CORE HVAC PLAN		M-103
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.
											XX



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Augusto E. Bobes Jr., P.E. No. 39410

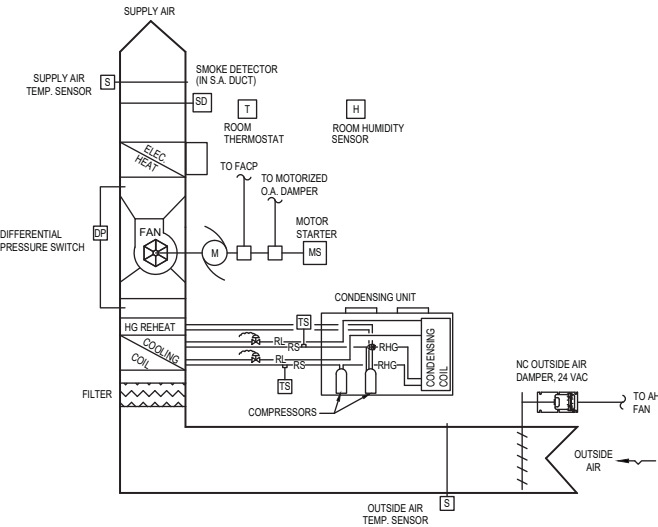
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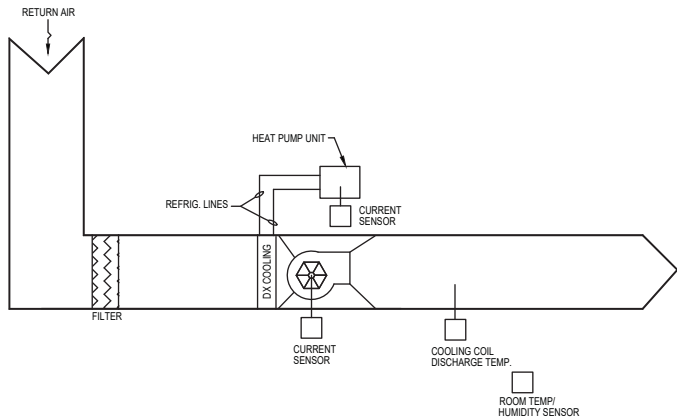
1 **M-104 ENLARGED STORAGE BUILDING HVAC PLAN**
SCALE: 3/16" = 1'-0"



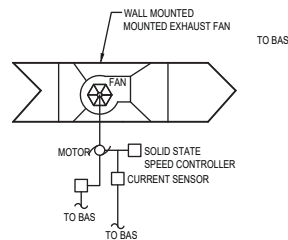
REVISIONS						 PROJECT NORTH	100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		DRAWING NO.	
						SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		M-104
 <div>BOBES ASSOCIATE CONSULTING ENGINEERING 180 CIRCLE DRIVE, WATLAND, FL 32791 TELEPHONE: 407.338.2266 FAX: 407.338.2266 FLORIDA STATE P.E. NUMBER: 91321 BOBES JR., P.E., P.E. NUMBER: 08410</div> Augusto E. Bobes Jr., P.E. No. 39410						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID
						SR 8	COLUMBIA	438609-1-52-01
						M-104 ENLARGED STORAGE BUILDING HVAC PLAN		SHEET NO.
								XX



100% O.A. SPLIT SYSTEM - (AHU-1.1/CU-1.1 & AHU-1.2/CU-1.2)
SCALE: NTS



HEAT PUMP UNITS (AHU-1.3/HP-1.3 THRU AHU-1.7/HP-1.7)
SCALE: NTS



EXHAUST FANS (EF-1.1)
SCALE: NTS

POINTS SCHEDULE

	POINTS SCHEDULE											
	INPUTS						OUTPUTS			SOFTWARE		
	ANALOG						DIGITAL			APPLICATIONS		
	OAT TEMP	ROOM TEMP	ROOM HUMIDITY	SUPPLY AIR TEMP	RETURN AIR TEMP	RA HUMIDITY	STATIC PRESSURE (TWO)	COMPRESSOR CONNECT SENSOR	FILTER STATUS	HUMIDITY H-LIMIT	OVERIDE	ELEC. HEAT STAGING
100% O.A. (AHU-1.1/CU-1.1)	X	X	X	X	X	X	X	X	X	X	X	X
100% O.A. (AHU-1.2/CU-1.2)	X	X	X	X	X	X	X	X	X	X	X	X
AHU-1.3/HP-1.3		X	X	X	X	X	X	X	X	X	X	X
AHU-1.4/HP-1.4		X	X	X	X	X	X	X	X	X	X	X
AHU-1.5/HP-1.5		X	X	X	X	X	X	X	X	X	X	X
AHU-1.6/HP-1.6		X	X	X	X	X	X	X	X	X	X	X
AHU-1.7/HP-1.7		X	X	X	X	X	X	X	X	X	X	X
EXHAUST FANS EF-1.1								X			X	

* DENOTES ALC CONTROL SYSTEM FURNISHED/CONTROLLED EQUIPMENT
△ DENOTES LG CONTROL SYSTEM FURNISHED/CONTROLLED EQUIPMENT

SEQUENCE OF OPERATION

GENERAL

- CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE BUILDING AUTOMATION SYSTEM EQUAL TO AUTOMATED LOGIC CONTROLS (ALC) WEB CONTROL 6.0 WITH BACNET COMPATIBILITY.
- THE BUILDING AUTOMATION SYSTEM (BAS) SHALL HAVE ALL SYSTEM CONTROLLERS, RELAYS, TIME CLOCK AND CONTROL POWER TRANSFORMER (120V/24V) IN A NEMA 1 ENCLOSURE WITH DOOR LOCK. SEE SHEET M-101 FOR LOCATION OF CONTROLS. CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE WIRING TO REMOTE CONTROLLERS, ZONE DAMPERS, EXHAUST FANS AND SENSORS FOR A COMPLETE AND WORKING HVAC CONTROL SYSTEM.
- THE BAS SYSTEM SHALL BE A STAND ALONE SYSTEM SERVING ONLY THIS BUILDING. HOWEVER THE BAS SYSTEM SHALL HAVE A WEB FRIENDLY USER INTERFACE BASED ON MICROSOFT INTERNET EXPLORER. PROPRIETARY SOFTWARE IS NOT ALLOWED ON THIS PROJECT.

100% O.A. SPLIT SYSTEMS

(AHU-1.1/CU-1.1, AHU-1.2/CU-1.2)

- 100% O.A. SPLIT SYSTEMS SHALL OPERATE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK TO PROVIDE CODE REQUIRED VENTILATION AIR TO ALL AREAS OF THE BUILDING. THE AIR HANDLER SHALL SUPPLY TREATED OUTSIDE AIR TO THE RESTROOMS.
- 100% O.A. CONDENSING UNIT SHALL CYCLE ON AND OFF TO MAINTAIN SUPPLY AIR SET POINT TEMPERATURE AND HUMIDITY. HOT GAS REHEAT SHALL ACTIVATE TO MAINTAIN SET POINT HUMIDITY.
- ELECTRIC HEATERS LOCATED IN 100% O.A. AIR HANDLING UNITS SHALL CYCLE ON AND OFF TO MAINTAIN SUPPLY AIR SET POINT TEMPERATURE DURING WINTER MONTHS WHEN THE OUTDOOR AIR TEMPERATURE IS SIGNIFICANTLY LOWER THAN THE INDOOR DESIGN SETPOINT.

MINI SPLIT HEAT PUMPS

(AHU-1.3/HP-1.3, AHU-1.4/HP-1.4, AHU-1.5/HP-1.5, AHU-1.6/HP-1.6, AHU-1.7/HP-1.7)

UNOCCUPIED

FAN COIL UNITS SHALL ENERGIZE AND CYCLE ON AND OFF TO ENSURE THAT THE SET POINT TEMPERATURE IS MET. THE FAN COIL UNIT SHALL MODULATE REFRIGERANT FLOW AND FAN SPEED AS NECESSARY TO MAINTAIN SETPOINT TEMPERATURE AND HUMIDITY IN EACH SPACE.

THE VRF CONDENSING/HEAT PUMP UNIT SHALL MODULATE REFRIGERANT FLOW AND SHALL MODULATE COMPRESSOR OUTPUT TO MATCH THE LOAD IMPOSED BY ITS ASSOCIATED AIR HANDLING UNIT.

UNOCCUPIED

THERE IS NO UNOCCUPIED MODE FOR THIS BUILDING.

NIGHT SET BACK

THERE IS NO NIGHT SET BACK MODE FOR THIS BUILDING.

EXHAUST FAN

ALL EXHAUST FANS SHALL BE MONITORED BY THE BAS SYSTEM.

EXHAUST FAN EF-1.1 SHALL BE CONTROLLED BY A WALL MOUNTED THERMOSTAT WITH MANUAL OVERRIDE.

CONTROLS INTEGRATION NOTES

- THE BASIS OF DESIGN CONTROL SYSTEM IS AUTOMATED LOGIC CONTROLS (ALC). THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE BUILDING AUTOMATION SYSTEM DDC CONTROL SYSTEM FOR THE ENTIRE BUILDING. THE ALC SYSTEM SHALL OVERLAY AND MONITOR THE CONTROLS SYSTEM FOR THE LG (VRF) CONTROL SYSTEM.
- A GRAPHICS SUITE SHALL BE PROVIDED. ALL EQUIPMENT NAMEPLATE INFORMATION AND FACTORY SERVICE MANUALS SHALL BE EMBEDDED INTO THE CONTROL SYSTEM'S GRAPHICS.
- THERE ARE TWO DIFFERENT HVAC EQUIPMENT MANUFACTURERS/SUPPLIERS. LG CORPORATION AND AAO ON THIS PROJECT WHICH SHALL HAVE TO FURNISH CONTROLLERS THAT ARE BACNET MSTP COMPATIBLE SO THAT THE ALC SYSTEM CAN COMMUNICATE WITH THEM.
- THE VARIABLE REFRIGERANT FLOW (VRF) LG SYSTEM SHALL COME WITH ITS OWN COMPLETE CONTROL SYSTEM TO MONITOR AND CONTROL THE VRF SYSTEM.
- THE ALC CONTROL SYSTEM FRONT END SHALL CONNECT TO THE FIRE ALARM SYSTEM AND SHALL ALLOW REMOTE USERS TO BE ALARMED/NOTIFIED OF SMOKE ALARMS, HIGH CO LEVEL ALARMS, KITCHEN HOOD FIRE SUPPRESSION ACTIVATION ALARM ETC.

PROJECT NORTH

100% CONSTRUCTION DOCUMENTS

Y:\AutoCAD Files\Architect\Gals-19 Rest Area - Columbia\MECHANICAL\M-401 HVAC CONTROLS.dwg

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Augusto E. Bobes Jr., P.E. No. 39410

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

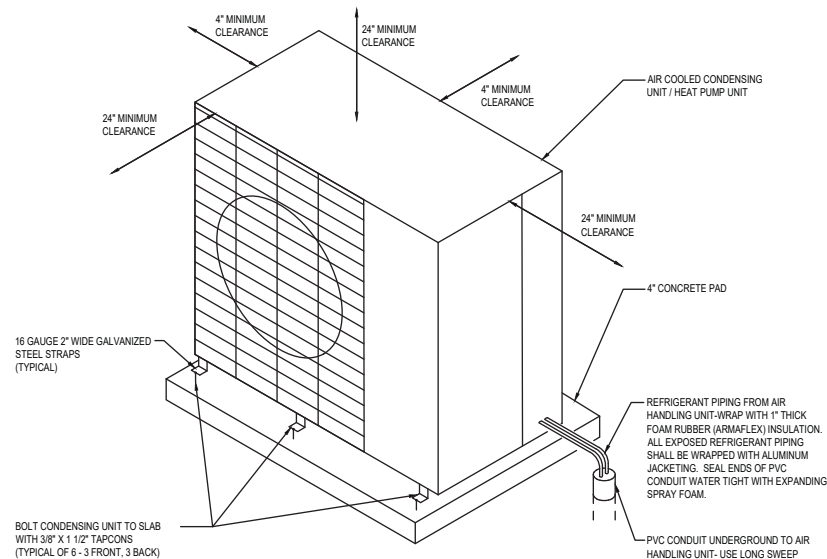
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA

HVAC CONTROLS

DRAWING NO.

M-401

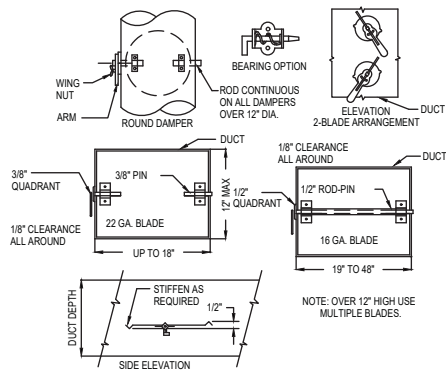
SHEET NO.



3 VERTICAL CONDENSING UNIT MOUNTING DETAIL (MINI SPLIT)

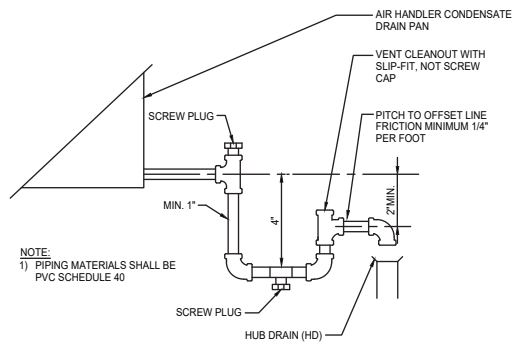
M-501 SCALE: NTS

INSTALLATION SHALL MEET WIND LOAD REQUIREMENTS AS SET FORTH IN THE 2017 FLORIDA BUILDING CODE (6TH EDITION)



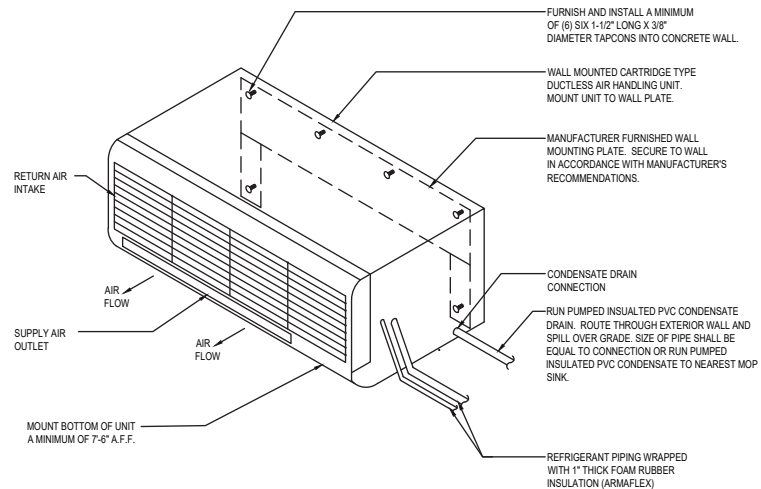
5 VOLUME DAMPERS-SINGLE BLADE TYPE

M-501 SCALE: NTS



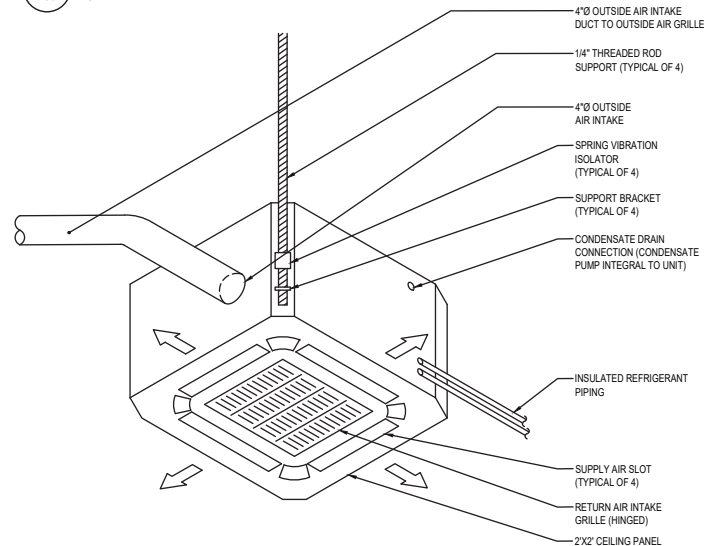
4 AIR HANDLING UNIT CONDENSATE TRAP DETAIL

M-501 SCALE: NTS



1 MINI SPLIT DUCTLESS AIR HANDLING UNIT MOUNTING DETAIL

M-501 SCALE: NTS



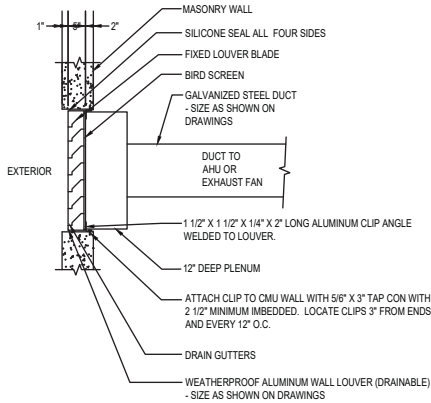
2 MINI SPLIT CEILING MOUNTED DUCTLESS AIR HANDLING UNIT MOUNTING DETAIL

M-501 SCALE: NTS

PROJECT NORTH **100% CONSTRUCTION DOCUMENTS**

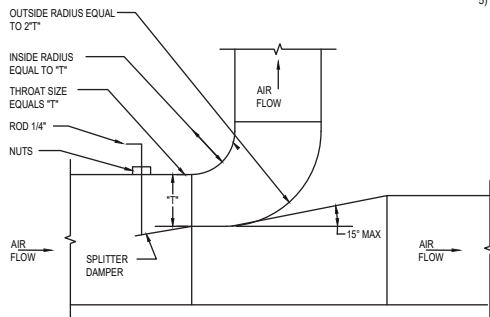
REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	HVAC DETAILS		M-501
						SR 8	COLUMBIA	438609-1-52-01			SHEET NO.

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BOBES ASSOCIATES, P.E., P.E. NUMBER 08410
Augusto E. Bobes Jr., P.E. No. 39410



WALL LOUVER/DUCTWORK MOUNTING DETAIL

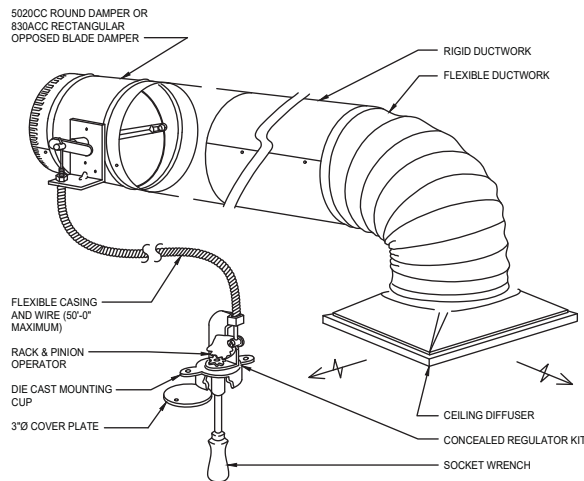
4
M-502
SCALE: NTS



NOTE
DAMPER TO BE NOT LESS THAN 1 1/2\"/>

SPLITTER DAMPER DETAIL

5
M-502
SCALE: NTS

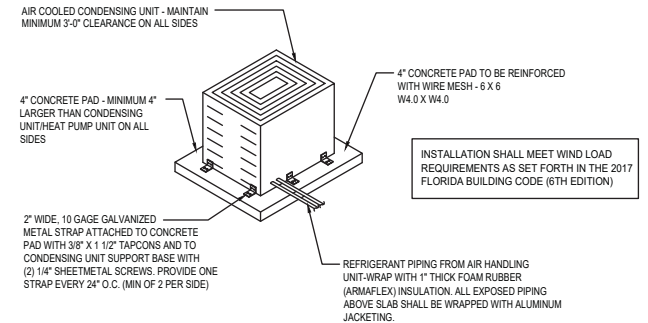


NOTE:

- COORDINATE EXACT LOCATION OF CEILING MOUNTED CONCEALED REGULATOR WITH ARCHITECT PRIOR TO INSTALLATION.
- THE 270-301 BOWDEN CABLE CONTROL SYSTEM IS DESIGNED TO BE IMBEDDED IN THE CEILING FLUSH WITH THE FINISHED SURFACE.
- CABLE SHALL CONSIST OF BOWDEN CABLE 0.054\"/>

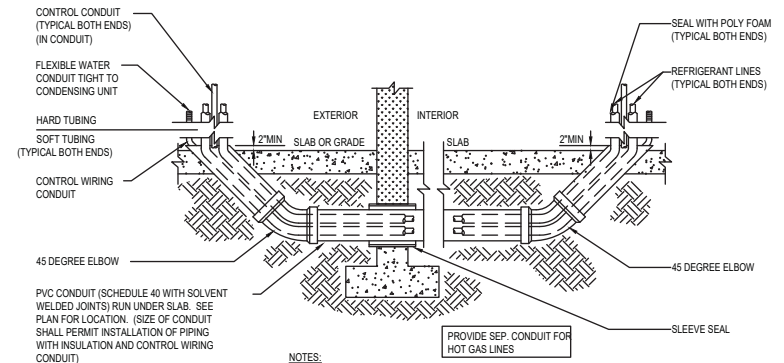
REMOTE VOLUME DAMPER MOUNTING DETAIL (SQUARE DIFFUSER)

3
M-502
SCALE: NTS



CONDENSING UNIT/HEAT PUMP UNIT MOUNTING DETAIL

1
M-502
SCALE: NTS



NOTES:

- SLEEVES FOR CONDUITS SHALL BE CAST INTO FOUNDATION WALL. POUR COORDINATE SIZES REQUIRED AND LOCATIONS WITH CONTRACTORS OF OTHER DIVISIONS PRIOR TO INSTALLATION.
- CONDUITS WHICH MUST PASS BELOW STRUCTURAL FOUNDATIONS SHALL HAVE MINIMUM 6\"/>

PIPE CHASE SIZES

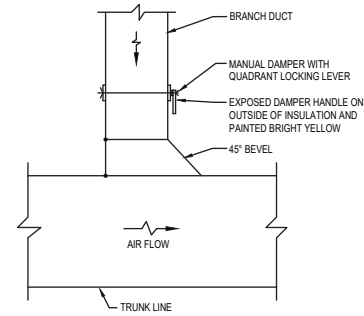
SUCTION PIPE SIZE	PVC REFRIGERANT PIPE CHASE SIZE
5/8" TO 1 5/8"	4"
1 7/8" TO 2 5/8"	6"
3 1/8" TO 4 1/8"	8"

REFRIGERANT PIPING CONDUIT DETAIL

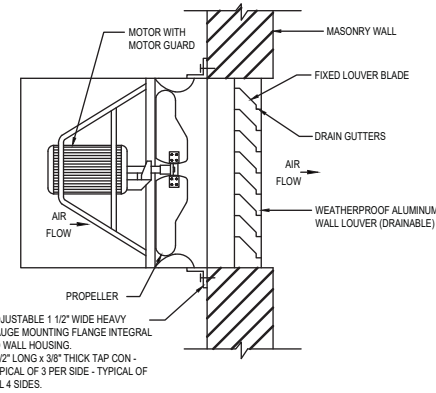
2
M-502
SCALE: NTS

REVISIONS						PROJECT NORTH		100% CONSTRUCTION DOCUMENTS		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		HVAC DETAILS		M-502
						ROAD NO.		COUNTY	FINANCIAL PROJECT ID	SHEET NO.
						SR 8		COLUMBIA	438609-1-52-01	

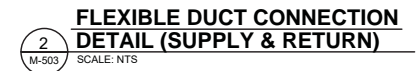
BOBES ASSOCIATES
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TELEPHONE: 407.338.2868
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FLORIDA STATE P.E. NUMBER: 9131
BOBES JR., P.E., P.E. NUMBER: 98410
Augusto E. Bobes Jr., P.E. No. 39410



3 DUCT
M-503 SCALE: NTS



4
M-503



2
M-503

DETAIL
SCALE: NTS

5 SHEET
M-503 SCALE: NTS

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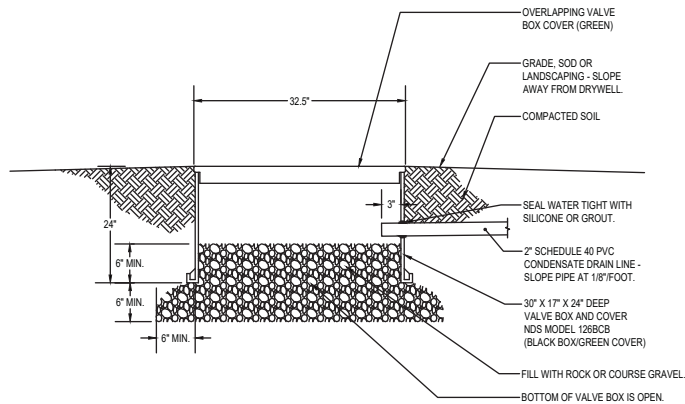
**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

PROJECT NORTH

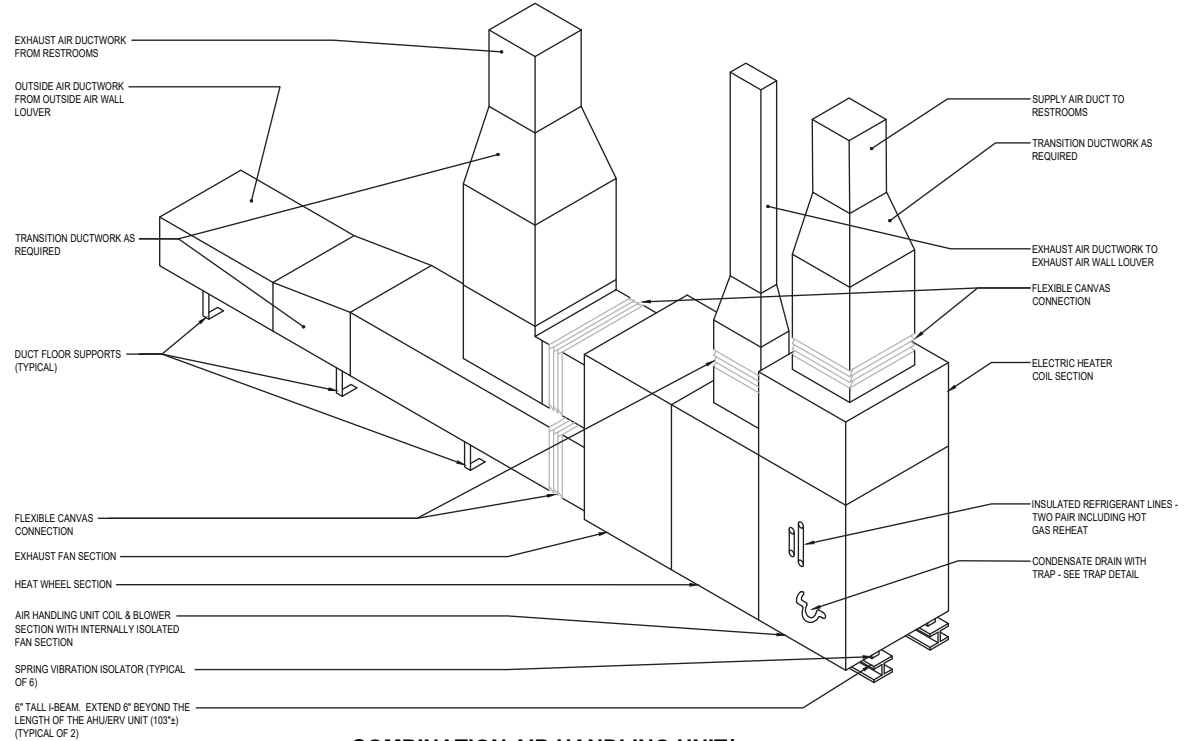
100% CONSTRUCTION DOCUMENTS

DRAWING NO.
M-503

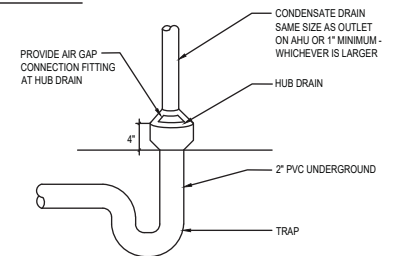
SHEET NO.



3 CONDENSATE DRYWELL DETAIL
M-504 SCALE: NTS



**1 COMBINATION AIR HANDLING UNIT/
ENERGY RECOVERY UNIT MOUNTING DETAIL**
M-504 SCALE: NTS



2 CONDENSATE HUB DRAIN DETAIL
M-504 SCALE: NTS

REVISIONS						PROJECT NORTH			100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA			DRAWING NO.	
						HVAC DETAILS			M-504	
									SHEET NO.	

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		HVAC DETAILS	
---	--	--------------	--

SPLIT SYSTEM AIR CONDITIONING UNIT WITH ENERGY RECOVERY VENTILATOR UNIT/SECTION SCHEDULE		
AIR HANDLING UNIT		
MARK	AHU-1.1	AHU-1.2
TOTAL CAPACITY (MBH)	83.79	64.73
SENSIBLE CAPACITY (MBH)	52.18	41.02
TOTAL SUPPLY AIR (CFM)	1600	1400
EXTERNAL STATIC PRESSURE (IN H ₂ O)	1.5"	1.5"
OUTSIDE AIR (CFM)	1600	1400
ENTERING AIR (DBWB)	80.7/68.4	80.2/68.0
LEAVING AIR (COL) (DBWB)	49.45/49.24	54.8/53.2
HOT GAS REHEAT	YES/34.0 MBH	YES/27.0 MBH
ELECTRIC HEATER (MIN) (KW)	15.0 KW/11.3KW	15.0 KW/11.3KW
FAN MOTOR (HP)	2.3	2.3
FAN MOTOR BRAKE (HP)		
ELECTRICAL CHARACTERISTICS	208/3/60	208/3/60
FLA	42.1	39.9
MCA	53	50
FUSE	60	50
COIL (ROWS/FP)	6/12	6/12
FILTER	2" PLEATED	2" PLEATED
WEIGHT	1701	1701
MANUFACTURER	AAON	AAON
MODEL	V3-BRB-8-0-162C-5Q2	V3-BRB-8-0-162C-5Q2
CONDENSING UNIT		
MARK	CU-1.1	CU-1.2
NO. OF COMPRESSORS / CIRCUITS	2/2	1/
ELECTRICAL SERVICE	208/3/60	208/3/60
SYSTEM EER	11.9/	12.1/
FLA	35	23
MCA	39	28
FUSE (MOCp)	50	45
WEIGHT (lbs)	1069	1069
MANUFACTURER	AAON	AAON
MODEL	CFA-009-B-A-8-DCOOH	CFA-007-B-A-8-DCOOH
ENERGY RECOVERY VENTILATOR		
MARK	ERV-1	ERV-2
TYPE		
EXHAUST FAN		
EXHAUST VOLUME (CFM)	1600	1400
EXTERNAL S.P. (IN H ₂ O)	1.5	1.5
MOTOR (HP)	2.3	2.3
SUPPLY FAN		
SUPPLY VOLUME (CFM)	1600	1400
MOTOR (HP)	0.05	0.05
ELECTRICAL		
(V/PH/Hz)	208/3/60	208/3/60
SUMMER CONDITIONS		
E.A.T. (°F) (D. B./W.B.)	94.0/78.0	94.0/78.0
L.A.T. (°F) (D. B./W.B.)	50.4/50.1	50.4/50.1
EFF. (%)	68%	68%
WINTER CONDITIONS		
E.A.T. (°F) (D. B./W.B.)	38.0/34.0	38.0/34.0
L.A.T. (°F) (D. B./W.B.)	85.6/63.1	88.8/64.2
EFF. (%)		
MANUFACTURER	AAON	AAON
MODEL	ERC-3019C	ERC-3019C
NOTES: 1. AHU AND ERV SHALL BE AN INTEGRATED VERTICAL UNIT. 2. FURNISH WITH HOT GAS REHEAT. 3. FAN MOTORS SHALL BE ECM. 4. FURNISH WITH ELECTRIC HEAT.		

FAN SCHEDULE																				
UNIT NUMBER	AREA SERVED	PERFORMANCE DATA					CONSTRUCTION DATA				MOTOR DATA				ELECTRICAL			MANUFACTURE RMODEL	WEIGHT (LBS)	NOTES
		CFM	SP	RPM	SONE S	BHP	FAN TYPE	DRIVE TYPE	DISCH	RPM	HP	WATTS	START TYPE	VOLTS	PHASE	CYCLES				
EF-1.1	STORAGE BUILDING	300	375"	1160	11.8	--	WALL MOUNTED PROPELLER	DIRECT	HORZ	1160	1/8	--	--	115	1	60	GREENHECK AER E20C-406-60	169	1.7	

- NOTES:
1. FURNISH FAN WITH EC MOTOR.
2. ATTACH FAN TO WALL.
3. FURNISH FAN WITH INTEGRAL ELECTRICAL DISCONNECT.
4. FURNISH FAN WITH WALL HOUSING.
5. FURNISH FAN WITH INLET GUARD.
6. FURNISH FAN WITH WALL MOUNTED THERMOSTAT.
7. FAN AND FAN MOTOR SHALL BE EXPLOSION PROOF.

MINI SPLIT SPLIT SYSTEM HEAT PUMP AIR CONDITIONING UNIT SCHEDULE																
AIR HANDLING UNIT/EVAPORATOR																
MARK	LOCATION	MANUF.	UNIT TYPE	MODEL NO.	NOM. COOLING CAP.(BTUH)	NOM. HEATING CAP.(BTUH) @47°	FAN CFM MIN/MAX	FAN WATTS/FLA	POWER V/PH/Hz	LIQUID INCH	GAS INCH	MCA/MOCP	WEIGHT LBS	COMMENTS		NOTES
AHU-1.3	OFFICE 011	LG	CEILING MOUNTED CASSETTE TYPE UNIT	AM012NNNDCH	MAX 12000 MIN 3400	MAX 13500 MIN 3000	283/335/371	65/33	208/1/60	1/4	1/2	26/15	32	PROVIDE UNIT WITH 15 CFM OF OUTSIDE AIR		1-7
AHU-1.4	BREAK RM 007	LG	CEILING MOUNTED CASSETTE TYPE UNIT	AM012NNNDCH	MAX 12000 MIN 3400	MAX 13500 MIN 3000	283/335/371	65/33	208/1/60	1/4	1/2	26/15	32	PROVIDE UNIT WITH 15 CFM OF OUTSIDE AIR		1-7
AHU-1.5	STORAGE RM 008	LG	CEILING MOUNTED CASSETTE TYPE UNIT	AM012NNNDCH	MAX 12000 MIN 3400	MAX 13500 MIN 3000	283/335/371	65/36	208/1/60	1/4	1/2	26/15	32	PROVIDE UNIT WITH 30 CFM OF OUTSIDE AIR		1-7
AHU-1.6	ITS / COMM. RM 099	LG	WALL MOUNTED	AC012MNADCH/A	MAX 12000 MIN 3400	MAX 14000 MIN 3000	194/247/300	—/33	208/1/60	1/4	1/2	1.0/—	17	NO OUTSIDE AIR		1-6
AHU-1.7	ELECTRICAL ROOM 010	LG	WALL MOUNTED	AC012MNADCH/A	MAX 12000 MIN 3400	MAX 14000 MIN 3000	194/247/300	—/33	208/1/60	1/4	1/2	1.0/—	17	NO OUTSIDE AIR		1-6
HEAT PUMP - CONDENSING UNIT																
MARK	LOCATION	MANUF.	UNIT TYPE	MODEL NO.	NOM. COOLING	SEER/EER	HSPF/COP @47°	FAN MTR	POWER V/PH/Hz	LIQUID INCH	GAS INCH	WEIGHT LBS	MCA / MOCP	REFR.	COMMENTS	NOTES
HP-1.3	GROUND	LG	AIR COOLED HEAT PUMP	AC012KX ADCH/A	MAX 12000 MIN 5800	20.8/12.0	10.2/4.31	—	208/1/60	1/4	1/2	104	11/28	R-410A	PROVIDE VARIABLE SPEED INVERTER-DRIVEN COMPRESSOR	1-7
HP-1.4	GROUND	LG	AIR COOLED HEAT PUMP	AC012KX ADCH/A	MAX 12000 MIN 5800	20.8/12.0	10.2/4.31	—	208/1/60	1/4	1/2	104	11/28	R-410A	PROVIDE VARIABLE SPEED INVERTER-DRIVEN COMPRESSOR	1-7
HP-1.5	GROUND	LG	AIR COOLED HEAT PUMP	AC012KX ADCH/A	MAX 12000 MIN 8000	24.6/14.4	11.0/4.28	—	208/1/60	1/4	1/2	100	11/28	R-410A	PROVIDE VARIABLE SPEED INVERTER-DRIVEN COMPRESSOR	1-7
HP-1.6	GROUND	LG	AIR COOLED HEAT PUMP	AC012KX ADCH/A	MAX 12000 MIN 3400	18.0/9.84	9.5/2.44	—	208/1/60	1/4	1/2	80	10.7/15	R-410A	PROVIDE VARIABLE SPEED INVERTER-DRIVEN COMPRESSOR	1-6
HP-1.7	GROUND	LG	AIR COOLED HEAT PUMP	AC012KX ADCH/A	MAX 12000 MIN 3400	18.0/9.84	9.5/2.44	—	208/1/60	1/4	1/2	80	10.7/15	R-410A	PROVIDE VARIABLE SPEED INVERTER-DRIVEN COMPRESSOR	1-6

MINISPLIT SYSTEM NOTES

1. POWER FOR INDOOR UNIT IS FED FROM OUTDOOR UNIT.
2. HEAT PUMP UNIT SHALL UTILIZE R-410A REFRIGERANT.
3. PROVIDE FACTORY FABRICATED HAIL GUARD ON OUTDOOR HEAT PUMP UNIT COIL.
4. PROVIDE VANDAL PROOF CAPS ON ALL REFRIGERANT PIPING SERVICE VALVES TO PREVENT UNAUTHORIZED RELEASE OF REFRIGERANT.
5. CONTRACTOR SHALL SECURE THE HEAT PUMP UNIT TO THE 4" TALL CONCRETE SERVICE PAD TO MEET THE WIND LOAD REQUIREMENTS AS SET FORTH IN THE 2017 FLORIDA BUILDING CODE (6TH EDITION).
6. FURNISH SYSTEM WITH WIRED REMOTE CONTROLLER WITH TIME CLOCK.
7. FURNISH WITH 4 WAY CASSETTE FASCIA PANEL.

AIR DISTRIBUTION SCHEDULE									
SYMBOL	DESCRIPTION	MODULE SIZE	MATERIAL	FINISH	NECK SIZE	DAMPER	BORDER FRAME TYPE	MANUFACTURER	MODEL NUMBER
CD-1	SQUARE SUPPLY AIR DIFFUSER WITH THREE CONE ONE PCE CONSTRUCTION, ROUND NECK, VERTICAL-TO-HORIZONTAL DISCHARGE PATTERN, NO CORNER JOINTS REMOVABLE INNER CONES	18"X18"	ALUMINUM	WHITE	SEE DWG	NO	SURFACE CEILING	METALARE	5700
CD-2	SQUARE SUPPLY AIR DIFFUSER WITH THREE CONE ONE PCE CONSTRUCTION, ROUND NECK, VERTICAL-TO-HORIZONTAL DISCHARGE PATTERN, NO CORNER JOINTS REMOVABLE INNER CONES	12"X12"	ALUMINUM	WHITE	SEE DWG	NO	SURFACE CEILING	METALARE	5700
ER-1	EXHAUST AIR REGISTER - SIDEWALL, SURFACE MOUNTED, EGG CRATE	SEE DWG	ALUMINUM	WHITE	SEE DWG	NO	SURFACE WALL	METALARE	CC5
ER-2	EXHAUST AIR REGISTER - CEILING, SURFACE MOUNTED, EGG CRATE	SEE DWG	ALUMINUM	WHITE	SEE DWG	NO	SURFACE CEILING	METALARE	CC5
SR-1	SUPPLY AIR REGISTER - CEILING MOUNTED, EGG CRATE	SEE DWG	ALUMINUM	WHITE	SEE DWG	NO	SURFACE WALL	METALARE	CC5

QAD-1 OUTSIDE AIR DAMPER: SIZE AS REQUIRED FOR DUCTWORK IT IS SERVING. RATED FOR HIGH HUMIDITY. ALUMINUM CONSTRUCTION (FRAME AND BLADES), LOW LEAKAGE WITH LINKAGE, AXLE AND BEARINGS MANUFACTURED FROM TYPE 304 STAINLESS STEEL. GREENHECK MODEL VCD-40 OR EQUAL RUSKIN DAMPER.

DESIGN CONDITIONS SCHEDULE			
GAINSVILLE FLORIDA	SUMMER		WINTER
	DB(°F)	WB(°F)	DB(°F)
	INDOOR	75 62.5	70
OUTDOOR*	94.0	77.0	30.0

*PER ASHRAE FUNDAMENTALS HANDBOOK

PROJECT NORTH

100% CONSTRUCTION DOCUMENTS

SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA

DRAWING NO.

M-601

SHEET NO.

HVAC SCHEDULES

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.

SR 8

COUNTY

COLUMBIA

FINANCIAL PROJECT ID

438609-1-52-01



Augusto E. Bobes Jr., P.E. No. 39410

PLUMBING GENERAL NOTES

1.

ALL WORK SHALL CONFORM WITH THE 2017 FLORIDA PLUMBING CODE (6TH EDITION), THE 2017 FLORIDA BUILDING CODE (6TH EDITION), THE 2017 FLORIDA ACCESSIBILITY CODE (6TH EDITION), 2017 FLORIDA GAS CODE (6TH EDITION), THE FDOT REQUIREMENTS AND ALL OTHER APPLICABLE CODES AND STANDARDS.
2.

ALL HANDICAP FIXTURES SHALL BE MOUNTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE 2017 FLORIDA ACCESSIBILITY CODE CHAPTER 11 - FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
3.

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT FOR PLUMBING PIPING SYSTEMS, DOMESTIC WATER SYSTEMS, PLUMBING CONNECTIONS AND ALL FITTINGS, SPECIALTIES, ANCHORING/SUPPORTING OF EQUIPMENT, AUXILIARY MATERIALS AND ACCESSORIES AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN FOR A COMPLETE AND OPERATIONAL PLUMBING SYSTEM.
4.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE OF THE WORK AND BECOME FAMILIAR WITH ALL AVAILABLE INFORMATION REGARDING THE LOCATION OF EXISTING FACILITIES. FAILURE OF THE CONTRACTOR TO FULLY INFORM HIMSELF OF ALL EXISTING CONDITIONS WILL NOT BE CAUSE FOR ADDITIONAL COMPENSATION.
5.

ALL EQUIPMENT AND MATERIALS USED IN THIS INSTALLATION SHALL BE NEW, OF APPROVED QUALITY AND MANUFACTURE AND, UNLESS OTHERWISE NOTED, SHALL BE STANDARD CATALOG ITEMS OF THE VARIOUS MANUFACTURERS. EACH COMPONENT OF THE WORK SHALL BE COMPLETE, CONNECTED AND CAPABLE OF SATISFACTORY FUNCTIONAL OPERATION.
6.

PIPING SYSTEMS SHALL BE COMPLETE WITH PIPE, PIPE FITTINGS, VALVES, STRAINERS, EXPANSION JOINTS, FLEXIBLE PIPE CONNECTIONS, HANGERS, SUPPORTS, ANCHORS, GUIDES, SLEEVES, AND ACCESSORIES REQUIRED TO ENSURE PROPER OPERATION FOR THE PURPOSE INTENDED, AS SHOWN AND SPECIFIED. PIPING, VALVES AND ACCESSORIES SHALL BE SUITABLE FOR THE SYSTEM PRESSURE, TEMPERATURE AND CIRCULATING LIQUID.
7.

FOLLOW REQUIREMENTS OF THE FLORIDA BUILDING CODE, REGULATIONS, ORDINANCES, ETC., OF THE STATE, COUNTY, AND/OR MUNICIPALITY, IN WHICH THE CONSTRUCTION IS LOCATED, AND ANY GOVERNMENT ENTITY HAVING JURISDICTION OVER THIS WORK.
8.

ALL EQUIPMENT SHALL FIT THE ALLOTTED SPACE AND SHALL LEAVE REASONABLE ACCESS ROOM FOR SERVICING AND REPAIRS. GREATER SPACE AND ROOM REQUIRED BY SUBSTITUTED EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR AND AT HIS EXPENSE AND MEETING THE APPROVAL OF THE CONSTRUCTION MANAGER.
9.

IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN EQUIPMENT DIMENSIONS AND SPACE ALLOTMENTS THEREFORE, HE SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING AND SHALL NOT PROCEED WITH THE WORK UNTIL HE HAS RECEIVED WRITTEN INSTRUCTIONS FROM THE CONSTRUCTION MANAGER.
10.

THE CONTRACTOR SHALL DO NO CUTTING THAT MAY IMPAIR STRENGTH OF BUILDING CONSTRUCTION. NO HOLES, EXCEPT FOR SMALL SCREWS, MAY BE DRILLED IN BEAMS OR OTHER STRUCTURAL MEMBERS WITHOUT OBTAINING PRIOR APPROVAL OF THE CONSTRUCTION MANAGER.
11.

THE CONTRACTOR SHALL FURNISH ALL ELECTRICAL WORK ASSOCIATED WITH PLUMBING EQUIPMENT, INCLUDING ELECTRICAL CONTROLS, SWITCHES, CONTACTORS AND STARTERS FOR ALL EQUIPMENT ITEMS REQUIRING SAME. ALL ELECTRICAL WORK SHALL CONFORM IN ALL RESPECTS TO THE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE.
12.

UNLESS OTHERWISE INDICATED, METAL FASTENERS AND RELATED PARTS SHALL BE OF ALUMINUM OR STAINLESS STEEL AND SHALL BE OF ADEQUATE STRENGTH FOR THE PURPOSE INTENDED.
13.

LEAVE CONCEALED WORK UNCOVERED UNTIL REQUIRED TESTS HAVE BEEN COMPLETED, BUT IF NECESSARY TO MAKE TESTS ON PORTIONS OF THE WORK, THOSE PORTIONS OF THE WORK MAY BE CONCEALED AFTER BEING INSPECTED AND APPROVED. REPAIR DEFECTS THAT ARE DISCOVERED AS A RESULT OF INSPECTIONS OR TESTS WITH NEW MATERIALS, CAULKING, WELDING OR SOLDERING OF SCREWED POINTS, CRACKS, OR HOLES WILL NOT BE ACCEPTED. REPEAT TESTS AFTER DEFECTS HAVE BEEN CORRECTED.
14.

CLEANING / STERILIZATION: AS SOON AS THE WATER PIPING HAS BEEN THOROUGHLY FLUSHED OUT, STERILIZE THE LINES BY INTRODUCING INTO THEM A SOLUTION OF CALCIUM HYPOCHLORITE OR CHLORIDE OF LIME. OPEN AND CLOSE ALL VALVES WHILE SYSTEM IS BEING CHLORINATED. AFTER THE STERILIZING AGENT HAS BEEN APPLIED FOR 24 HOURS, TEST FOR RESIDUAL CHLORINE AT THE ENDS OF THE LINES. REPEAT THE PROCESS IF LESS THAN 10 PARTS PER MILLION IS INDICATED. WHEN THE TESTS SHOW AT LEAST 10 PARTS PER MILLION OF RESIDUAL CHLORINE, FLUSH OUT THE SYSTEM UNTIL ALL TRACES OF THE CHEMICAL USED ARE REMOVED. MAKE NECESSARY CONNECTIONS TO STERILIZE PIPING.
15.

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF HIS STORED MATERIALS AND EQUIPMENT FOR THE DURATION OF THE PROJECT. PROVIDE PROTECTIVE COVER OVER EQUIPMENT TO ENSURE AGAINST WATER AND DUST DAMAGE AND PROVIDE SUITABLE PALLETS BETWEEN EQUIPMENT AND MATERIALS STORED ON GROUND.
16.

THE CONTRACTOR SHALL PAY FOR AND PROVIDE ALL REQUIRED PERMITS.
17.

THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT THE PLUMBING WORK IS FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY OWNER. DURING THE FIRST YEAR, ALL SYSTEM MALFUNCTIONS SHALL BE REPAIRED AND ALL DEFECTIVE EQUIPMENT SHALL BE REPLACED AT NO EXPENSE TO THE OWNER.
18.



THE CONTRACTOR SHALL PROVIDE OPERATION AND MAINTENANCE (O&M) MANUALS INCLUDING PREVENTATIVE MAINTENANCE REQUIREMENTS FOR ALL PLUMBING EQUIPMENT.
19.

THE CONTRACTOR SHALL PREPARE RED LINED AS BUILT DRAWINGS OF THE INSTALLED PLUMBING SYSTEMS AT THE COMPLETION OF THE PROJECT CONSTRUCTION AND SHALL INCLUDE THOSE AS-BUILT DRAWINGS AT PROJECT CLOSEOUT ALONG WITH THE O&M MANUAL.
20.

THE CONTRACTOR SHALL PROVIDE A COMPLETE PLUMBING SHOP DRAWING SUBMITTAL TO THE ENGINEER FOR REVIEW AND APPROVAL. THE PLUMBING SUBMITTAL SHALL INCLUDE ALL PLUMBING FIXTURES, WATER HEATERS, PIPING, PIPING INSULATION, PIPE HANGERS, PUMPS, VALVES, MIXING VALVES, EXPANSION TANKS, INTERCEPTORS ETC. CONTRACTOR SHALL NOT ORDER ANY PLUMBING EQUIPMENT UNTIL THIS SUBMITTAL IS REVIEWED AND ACCEPTED BY THE ENGINEER OF RECORD. CONTRACTOR SHALL SUBMIT THE SHOP DRAWING AS ONE COMPLETE SUBMITTAL AND SHALL NOT PIECE MEAL THE SUBMITTAL SPREAD OUT OVER THE COURSE OF DAYS AND WEEKS. FAILURE TO SUBMIT A COMPLETE PLUMBING SHOP DRAWING SUBMITTAL SHALL RESULT IN AN IMMEDIATE REJECTION OF THE SHOP DRAWING SUBMITTAL.

PLUMBING SYMBOL LEGEND					
-----	SANITARY WASTE LINE- BELOW FLOOR		PIPE ELBOW UP		WALL MOUNTED LAVATORY
-----	SANITARY WASTE LINE- ABOVE FLOOR		PIPE ELBOW DOWN		COUNTER TOP LAVATORY
-----	SANITARY VENT LINE		WALL CLEANOUT		BALL VALVE
-----	DOMESTIC COLD WATER		FLOOR CLEANOUT		BALL/BUTTERFLY VALVE
-----	DOM. HOT WATER 140° F		GROUND CLEANOUT		BACKWATER VALVE
-----	DOMESTIC HOT WATER RECIRCULATED		VENT THRU ROOF		INLINE PUMP
-----	TEMPERED WATER 110° F		ROOF LEADER		UNION
-----	F -- FILTERED WATER		ROOF DRAIN		TEMP. & PRESSURE RELIEF VALVE
-----	S -- SOFT WATER		FLOOR DRAIN		COCK
ST	STORM DRAIN - BELOW FLOOR		HUB DRAIN		GAS COCK
ST	STORM DRAIN - ABOVE FLOOR		POINT OF CONNECTION NEW TO EXISTING		WATER ARRESTOR
GR	GREASE WASTE LINE- BELOW FLOOR		LIMIT OF DEMOLITION		BALANCING VALVE
C	CONDENSATE DRAIN		HOSE BIBB		DRAWING HEX NOTE
G	GAS LINE		WATER CLOSET		REVISION DELTA AND NUMBER
A	AIR LINE		URINAL		
PLUMBING ABBREVIATIONS					
AAV	AIR ADMITTANCE VALVE	ESE	EMERGENCY SHOWER/ EYEWASH	PW	POWER WASH
AD	AREA DRAIN	EWB	ELECTRIC WATER HEATER	RP	RECIRCULATING PUMP
ADR	AIR DRIER (COMPRESSED AIR)	EWV	ELECTRIC WATER COOLER	RWL	RAIN WATER LEADER
AF	AIR FILTER (COMPRESSED AIR)	FD	FLOOR DRAIN	SAN	SANITARY
AFF	ABOVE FINISHED FLOOR	FL	FLOOR	S	SINK
AR	AIR RISER DIAGRAM	FS	FLOOR SINK	SR	SANITARY RISER DIAGRAM
BF	BARRIER FREE	GPH	GALLON PER HOUR	SD	STORM DRAIN
BTU	BRITISH THERMAL UNIT	GR	GAS RISER DIAGRAM	SE	SEWAGE EJECTOR
B/S	BELOW SLAB	GWV	GAS WATER HEATER	SH	SHOWER
CA	COMPRESSOR (COMPRESSED AIR)	HB	HOSE BIBB	SS	SERVICE SINK
CLG	CEILING	HD	HUB DRAIN	ST	STORM
CHDW	CHILLER, DRINKING WATER	HW	HOT WATER	TEMP	TEMPERATURE
CP	CONDENSATE PUMP	HWR	HOT WATER RECIRCULATING	TW	TEMPERED WATER
CS	COUNTER SINK	IEWH	INSTANTANEOUS ELECTRIC WATER HEATER	TMV	TEMPERING/MIXING VALVE
CW	COLD WATER	IM	ICE MAKER	UR	URINAL
°F	DEGREES FARENHEIT	KS	KITCHEN SINK	UG	UNDERGROUND
C.O.	CLEAN OUT	KW	KILOWATT	VTR	VENT THRU ROOF
DISP	DISPOSER	LAV, L	LAVATORY	WC	WATER CLOSET
DN	DOWN	MBH	MEGA BTU PER HOUR	W/	WITH
DF	DRINKING FOUNTAIN	MS	MOP SINK	WH	WATER HEATER
Δ	TEMP. DIFFERENCE IN °F	NIC	NOT IN CONTRACT	WHA	WATER HAMMER ARRESTOR
DWG	DRAWING	OD	OVER FLOW DRAIN	WF	WATER FILTER
EDF	ELECTRIC DRINKING FOUNTAIN	PC	PUMP, CIRCULATING (DOMESTIC HOT WATER)	WR	WATER RISER DIAGRAM
EFF	EFFICIENCY	PD	PLANTER DRAIN	WS	WATER SOFTENER
		PS	PUMP, SUMP	V	VACUUM

Y:\AutoCAD Files\Westbound\Gate-10 Rest Area - Columbia\MECHANICAL\P-001 PLUMBING GENERAL NOTES AND LEGEND.dwg

						 PROJECT NORTH		100% CONSTRUCTION DOCUMENTS					
REVISIONS						 <div>BOBES ASSOCIATES 4000 W. 10TH STREET, SUITE 200 DADE COUNTY, FL 33126 TELEPHONE: 407.538.0000 FAX: 407.538.0000 FLORIDA STATE P.E. NUMBER: 5151 RES. BOBES JR. P.E. P.E. NUMBER 30410</div>		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO. P-001	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PLUMBING SYMBOL LEGEND & GENERAL NOTES		SHEET NO.
						SR 8	COLUMBIA	438609-1-52-01					

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.

COUNTY

FINANCIAL PROJECT ID

SR 8

COLUMBIA

438609-1-52-01

Augusto E. Bobes Jr., P.E. No. 39410

PLUMBING CONSTRUCTION NOTES

1. NOTE: IN GENERAL, PLANS AND DIAGRAMMS OF UTILITY RUNS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED. CONTRACTOR SHALL COORDINATE AT SITE ALL PLUMBING, HVAC AND ELECTRICAL WORK SO AS NOT TO CONFLICT IN LOCATION WITH OTHER WORK UNDER THE CONTRACT.
2. COORDINATE ALL PIPING ROUTING WITH ALL OTHER TRADES PRIOR TO INSTALLATION. ROUTE ALL PIPING TO AVOID DUCTWORK, ELECTRICAL RACEWAYS, AND BUILDING STRUCTURE. IF PENETRATIONS THROUGH STRUCTURAL MEMBERS ARE REQUIRED FOR PLUMBING INSTALLATION, NOTIFY ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO INSTALLATION TO ENSURE THAT STRUCTURAL INTEGRITY IS MAINTAINED.
3. THIS CONTRACTOR SHALL BASE HIS PROPOSAL UPON THE EQUIPMENT AS SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS.
4. THE CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
5. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES EXPECT AS SPECIFICALLY NOTED, OR IN MECHANICAL ROOMS. PIPING SHALL NOT BE RUN THRU ELECTRICAL ROOMS OR CLOSETS.
6. SLEEVE AND FIRE STOP ALL PENETRATIONS OF RATED WALLS, CEILINGS, FLOORS, ETC. IN ACCORDANCE WITH APPLICABLE UL STANDARDS AND LOCAL CODES TO MAINTAIN RATINGS. SEE ARCHITECTURAL DRAWINGS FOR RATED WALLS AND FLOORS.
7. PIPING ROUTING SHOWN IS SCHEMATIC AND IS INTENDED TO INDICATE GENERAL ROUTING. PLUMBING CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTER IN FIELD.
8. PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES, WALLS, OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWING FOR CEILING AND WALL TYPES.
9. DRAINAGE PIPING SHALL SLOPE NO LESS THAN 1/8" FALL PER FOOT SEE SPECIFICATIONS.
10. FURNISH AND INSTALL HOSE BIBBS AND WALL HYDRANTS 24" ABOVE FINISHED GRADE/FLOOR AND PROVIDE VACUUM BREAKERS, WATER SHOCK ARRESTORS AND ACCESSIBLE ISOLATION VALVES.
11. SEE ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS. MOUNTING HEIGHTS, DIMENSIONS, AND HANDICAPPED REQUIREMENTS.
12. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS AND EXACT LOCATIONS OF EXISTING SEWER AND DOMESTIC WATER PIPING/MAINS BEFORE INSTALLATION/SUBMITTAL OF SHOP DRAWINGS.
13. ALL VENTS THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY AIR INTAKES.
14. PLUMBING CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT ALL CONNECTIONS OF DISSIMILAR METALS.
15. ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
16. ANY PIPING IN UNCONDITIONED SPACES SHALL BE FULLY INSULATED.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF HIS STORED MATERIALS AND EQUIPMENT FOR THE DURATION OF THE PROJECT. PROVIDE PROTECTIVE COVER OVER EQUIPMENT TO ENSURE AGAINST WATER AND DUST DAMAGE AND PROVIDE SUITABLE PALLETS BETWEEN EQUIPMENT AND MATERIALS STORED ON GROUND.
18. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
19. ALL PIPING SHALL BE CONCEALED WITHIN THE CEILING SPACE, WALLS AND CHASES AS SHOWN ON PLANS.
20. ALL EXPOSED PIPING AT PLUMBING FIXTURES SHALL BE CHROME PLATED BRASS WITH ESCUTCHEON PLATES AT THE WALL, FLOOR OR CEILING PENETRATIONS.
21. INSULATE ALL EXPOSED PIPES AND SURFACES UNDER ACCESSIBLE LAVATORIES PER ADA 4.19.4 AND ANSI-A117.1. PROVIDE ONE PIECE PROTECTOR WITH FULL ROTATION OPTION CONSISTING OF INTERNAL GROOVE LOCKING RING FOR NON SEPARATION AND EXTERNAL LOCKING RING WITH STAINLESS STEEL SECURITY SCREW TO INSURE EXTRA LONG TERM TAMPER RESISTANCE ANTIMICROBIAL U.V. INHIBITED UNIVERSAL FIT, 3/4" DUAL LOCK (TM) FASTENERS SECURED WITH SELF LOCKING APPROVED NYLON STRAPS. FURNISH ONE PIECE VALVE/ANGLE STEP PROTECTOR, ONE PIECE OFFSET PROTECTOR AND ONE PIECE P-TRAP PROTECTOR. PRO-XTREME BY PLUMBEREX.
22. ALL PIPING SHALL BE FIRMLY ANCHORED AND SUPPORTED IT'S ENTIRE LENGTH TO PREVENT SWAY AND VIBRATION.
23. ALL EXPOSED PIPE HANGERS, SUPPORTS, CLAMPS, THREADED RODS ETC. SHALL BE GALVANIZED STEEL.
24. CONTRACTOR SHALL FURNISH AND INSTALL WATER SHOCK ARRESTERS EQUAL TO ZURN SHOKTROL AS SHOWN ON PLANS AND AS PER MANUFACTURER'S RECOMMENDATIONS. AIR CHAMBERS SHALL NOT BE SUBSTITUTED FOR FACTORY FABRICATED WATER SHOCK ARRESTORS.

PLUMBING MATERIALS NOTES

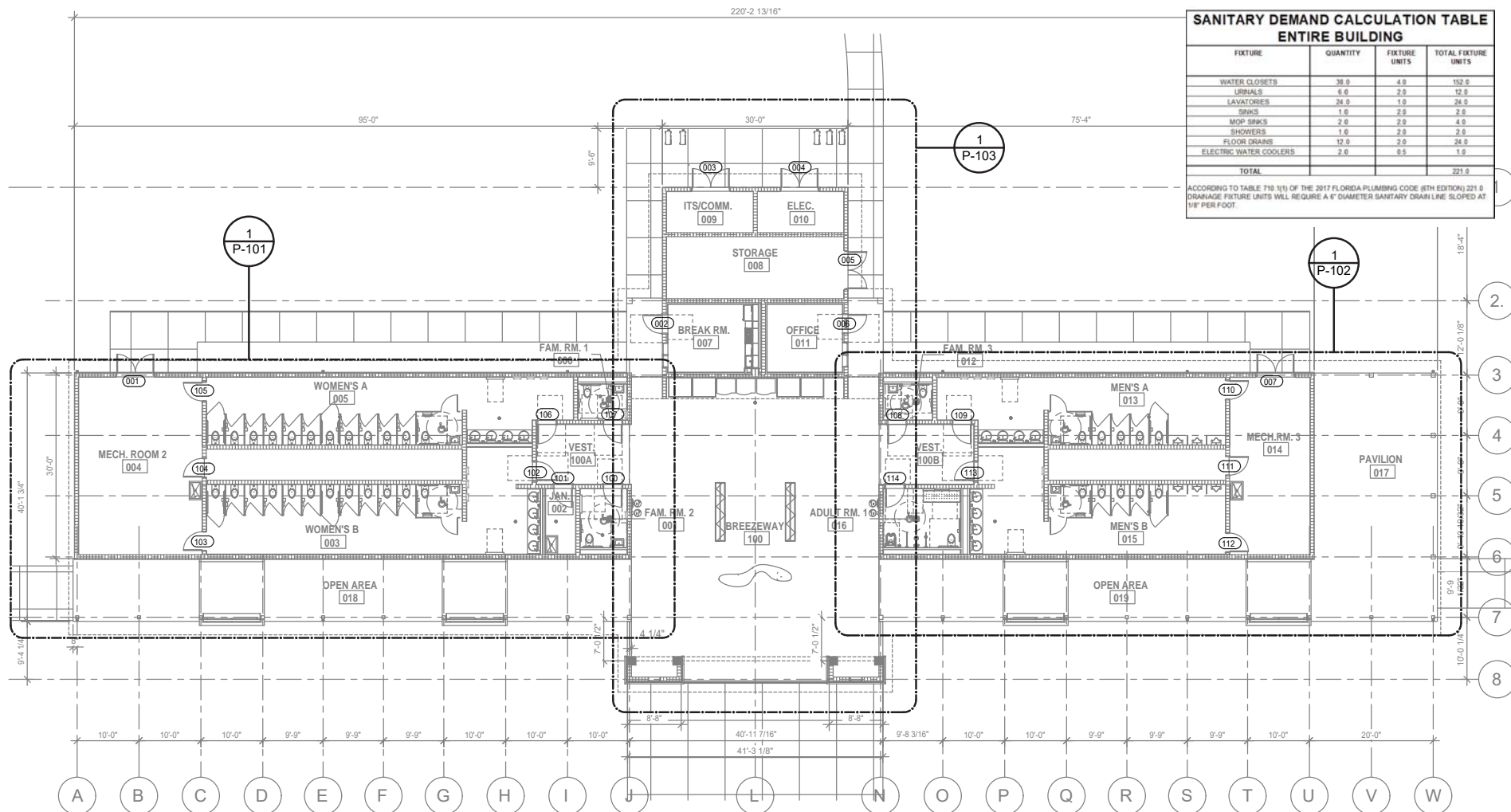
1. ALL ABOVE SLAB DOMESTIC COLD WATER, HOT WATER AND TEMPERED WATER PIPING SHALL BE TYPE "L" COPPER TUBING IN ACCORDANCE WITH ASTM B 88. PIPE FITTINGS SHALL BE COPPER OR COPPER ALLOY IN ACCORDANCE WITH ASME 16.22. JOINTS SHALL BE SOLDER ACCORDANCE WITH ASTM B 828 USING "LEAD FREE" SOLDER IN COMPLIANCE WITH ASTM B 32.
2. ALL BELOW SLAB DOMESTIC COLD WATER, HOT WATER AND TEMPERED WATER PIPING SHALL BE TYPE "K" SOFT COPPER.
3. ALL COPPER WATER LINE PENETRATIONS THROUGH WALLS AND FOOTERS SHALL BE SLEEVED.
4. PIPING MATERIAL : DOMESTIC COLD WATER PIPING COPPER TYPE K BELOW GRADE, L ABOVE GROUND.
5. PIPE FITTINGS: WROUGHT COPPER: ELBOWS, TEES, REDUCERS, COUPLINGS, ETC., SOLDER ENDS 150 PSIG WSP. FITTINGS MANUFACTURED BY MUELLER BRASS CO., CHASE BRASS, AND COPPER CO. USE 95-5 SOLDER FOR WATER SERVICE AND 50-50 FOR WASTE SERVICE. DO NOT USE SOLDER CONTAINING LEAD FOR POTABLE WATER SERVICE. BRONZE UNIONS FOR 2 1/2" PIPE AND SMALLER.
6. SANITARY PIPING: PIPE SHALL BE SERVICE WEIGHT CAST IRON, ASPHALT COATED AND SHALL CONFORM TO ASTM A-74 FOR BELL AND SPIGOT TYPE (BELOW GROUND), OR TO CISPI 301 FOR NO HUB TYPE (ABOVE GROUND).
7. SANITARY COPPER (DRAINAGE): PIPE SHALL BE HARD TEMPERED, SEAMLESS COPPER DWV TUBING, CONFORMING TO ASTM SPECIFICATION B-306. FITTINGS SHALL BE CAST BRONZE, DWV SWEAT TYPE CONFORMING TO ANSI B16.23.
8. CONDENSATE DRAIN; SAME AS SANITARY DWV ABOVE/BELOW GRND.
9. PIPE INSULATION: HOT WATER AND REFRIGERANT PIPING: 3/4" CLOSED CELL ELASTOMERIC ARMSTRONG ARMAFLEX OR EQUAL, SUITABLE FOR OPERATING TEMPERATURES FROM -40 F TO 200 F. FLAME SPREAD RATING OF LESS THAN 25 AND A SMOKE DENSITY RATING OF LESS THAN 50 RATED FOR RETURN AIR PLENUM USE. OUTDOOR APPLICATIONS REQUIRE ALUMINUM JACKET COVERING.
10. DIELECTRIC UNIONS: DISSIMILAR PIPE METALS SHALL BE ELECTRICALLY INSULATED FROM EACH OTHER BY COUPLINGS, UNIONS, OR FLANGES COMMERCIALY MANUFACTURED FOR THAT PURPOSE AND RATED FOR THE SERVICE PRESSURE AND TEMPERATURE. USE OF STEEL OR CAST-IRON FITTINGS IN A COPPER PIPING SYSTEM IS PROHIBITED, EXCEPT WHERE SPECIFICALLY NOTED. THREADED UNIONS SHALL BE AS MANUFACTURED BY EPCO.
11. ESCUTCHEONS : PROVIDE STAINLESS STEEL ESCUTCHEONS SECURELY IN PLACE ON EXPOSED PIPES WHERE THEY PASS THROUGH WALLS, PARTITIONS FLOORS AND CEILINGS OR FINISHED AREAS.
12. VALVES : PROVIDE BALL VALVES TO ISOLATE EACH COLD WATER RISER, BRANCH LINE, HOSE BIBBS, AND WHERE INDICATED ON PLANS.
13. PIPE SLEEVES : PROVIDE GALVANIZED SHEET METAL, 22 GAUGE SLEEVES FOR PIPES PASSING THROUGH WALLS OR FLOORS BEFORE POURING CONCRETE. PLASTIC SLEEVES AS MANUFACTURED BY PROSET OR EQUAL ARE PERMITTED. ALL SLEEVES SHALL BE LARGE ENOUGH TO ALLOW FULL THICKNESS OF INSULATION THROUGH SLEEVES FOR INSULATED PIPING, AND FOR TWO LAYERS OF 30 LB. FELT WRAPPING AROUND UN-INSULATED PIPING.

Y:\AutoCAD Files\Work\Gals-10 Rest Area - Columbia\MECHANICAL\P-002 PLUMBING GENERAL NOTES AND LEGEND.dwg

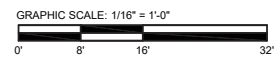
REVISIONS						<div><div><div><div></div><div></div><div></div></div><div><div><div>BOBES ASSOCIATES</div><div>1800 CIRCLE DRIVE, MAITLAND, FL 32751</div><div>TELEPHONE: 407.438.2843</div><div>FAX: 407.438.2843</div><div>905 BOBES JR., P.E., P.E. NUMBER 08410</div></div></div></div><div>Augusto E. Bobes Jr., P.E. No. 39410</div></div>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA			DRAWING NO.			
							P-002						
							ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET NO.			
							SR 8	COLUMBIA	438609-1-52-01	PLUMBING CONSTRUCTION & MATERIAL NOTES			

SANITARY DEMAND CALCULATION TABLE ENTIRE BUILDING			
FIXTURE	QUANTITY	FIXTURE UNITS	TOTAL FIXTURE UNITS
WATER CLOSETS	38.0	4.0	152.0
URINALS	6.0	2.0	12.0
LAVATORIES	24.0	1.0	24.0
SINKS	1.0	2.0	2.0
MOP SINKS	2.0	2.0	4.0
SHOWERS	1.0	2.0	2.0
FLOOR DRAINS	12.0	2.0	24.0
ELECTRIC WATER COOLERS	2.0	0.5	1.0
TOTAL			221.0

ACCORDING TO TABLE 710.1(1) OF THE 2017 FLORIDA PLUMBING CODE (8TH EDITION) 221.0 DRAINAGE FIXTURE UNITS WILL REQUIRE A 6" DIAMETER SANITARY DRAIN LINE SLOPED AT 1/8" PER FOOT.



1 P-100 SANITARY OVERALL PLAN
SCALE: 1/16" = 1'-0"



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

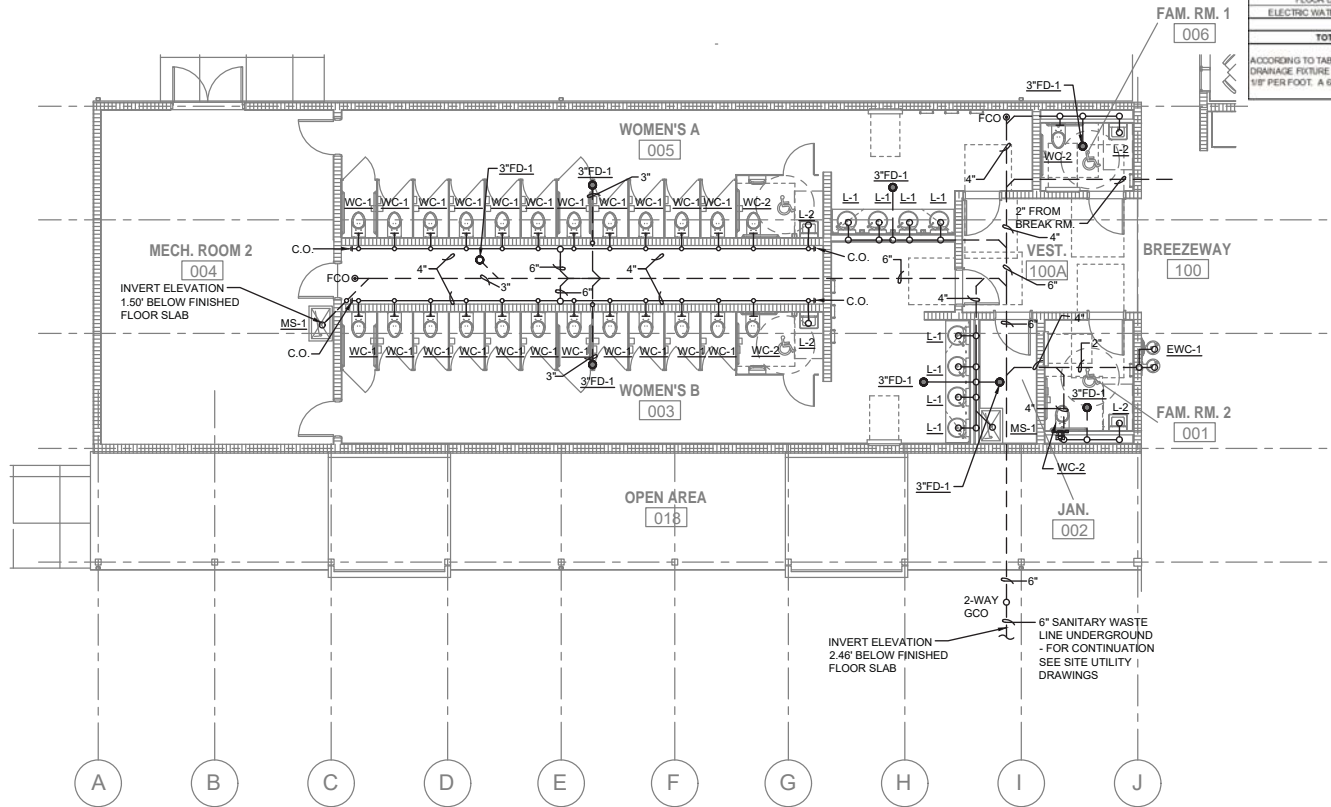
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. P-100
P-100 SANITARY OVERALL PLAN	SHEET NO.

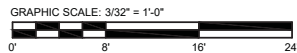
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SANITARY DEMAND CALCULATION TABLE			
WOMEN'S RESTROOM			
FIXTURE	QUANTITY	FIXTURE UNITS	TOTAL FIXTURE UNITS
WATER CLOSETS	20.0	4.0	104.0
LAVATORIES	12.0	1.0	12.0
SINKS	1.0	2.0	2.0
MOP SINKS	2.0	2.0	4.0
FLOOR DRAINS	8.0	2.0	16.0
ELECTRIC WATER COOLERS	2.0	0.5	1.0
TOTAL			139.0

ACCORDING TO TABLE 710.1(1) OF THE 2017 FLORIDA PLUMBING CODE (6TH EDITION) 139.0 DRAINAGE FIXTURE UNITS WILL REQUIRE A 6" DIAMETER SANITARY DRAIN LINE SLOPED AT 1/8" PER FOOT. A 6" DIAMETER SANITARY DRAIN LINE IS PROVIDED.

1 ENLARGED WOMEN'S RESTROOM SANITARY PLAN
SCALE: 3/32" = 1'-0"



PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO. P-101	
P-101 ENLARGED WOMENS ROOM SANITARY PLAN		SHEET NO.	

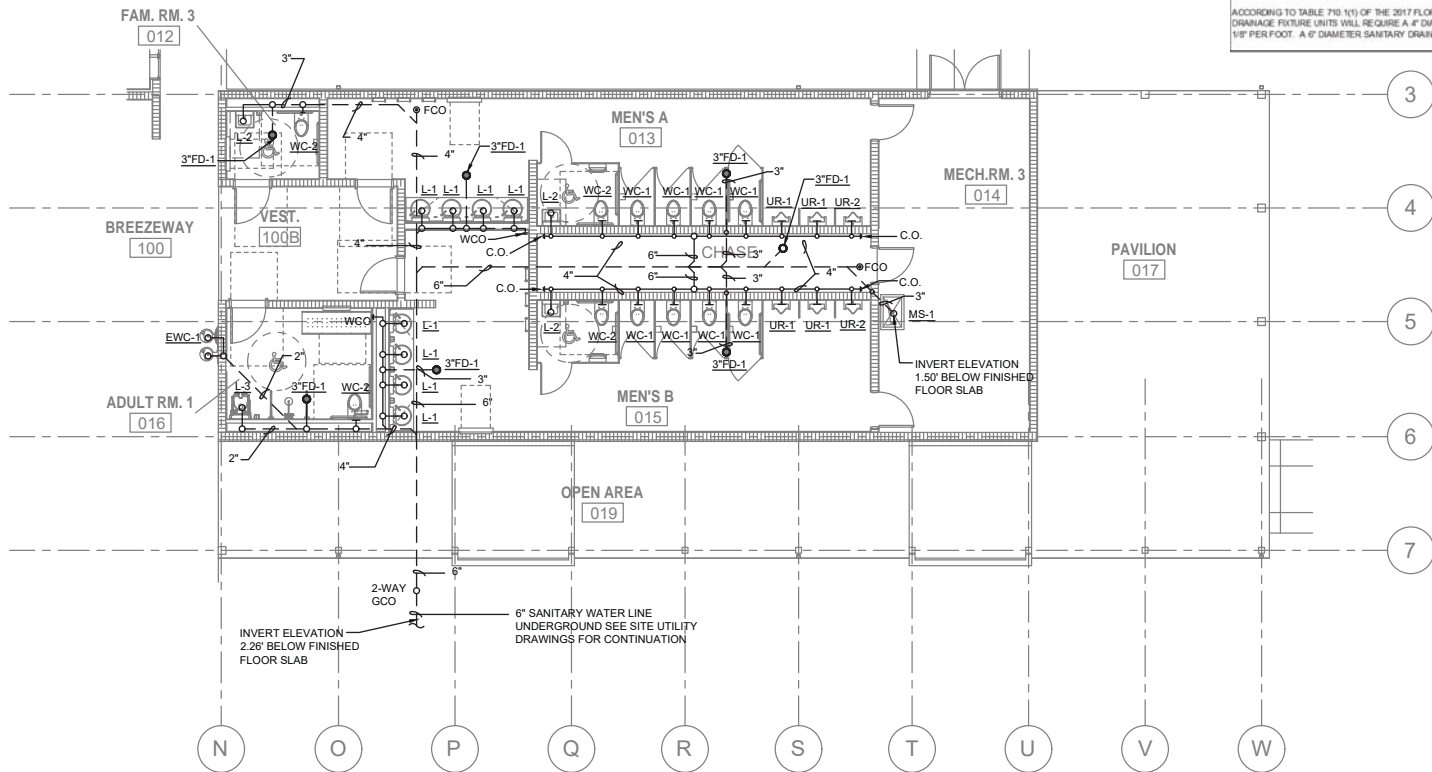
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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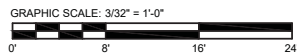
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SANITARY DEMAND CALCULATION TABLE			
MEN'S RESTROOM			
FIXTURE	QUANTITY	FIXTURE UNITS	TOTAL FIXTURE UNITS
WATER CLOSETS	12.0	4.0	48.0
URINALS	6.0	2.0	12.0
LAVATORIES	12.0	1.0	12.0
SINKS	1.0	2.0	2.0
MOP SINKS	1.0	2.0	2.0
SHOWERS	1.0	2.0	2.0
FLOOR DRAINS	7.0	2.0	14.0
ELECTRIC WATER COOLERS	2.0	0.5	1.0
TOTAL			93.0

ACCORDING TO TABLE 710.1(1) OF THE 2017 FLORIDA PLUMBING CODE (6TH EDITION) 93.0 DRAINAGE FIXTURE UNITS WILL REQUIRE A 4" DIAMETER SANITARY DRAIN LINE SLOPED AT 1/4" PER FOOT. A 6" DIAMETER SANITARY DRAIN LINE IS PROVIDED.



1 ENLARGED MEN'S RESTROOM SANITARY PLAN
SCALE: 3/32" = 1'-0"



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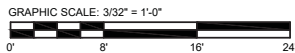
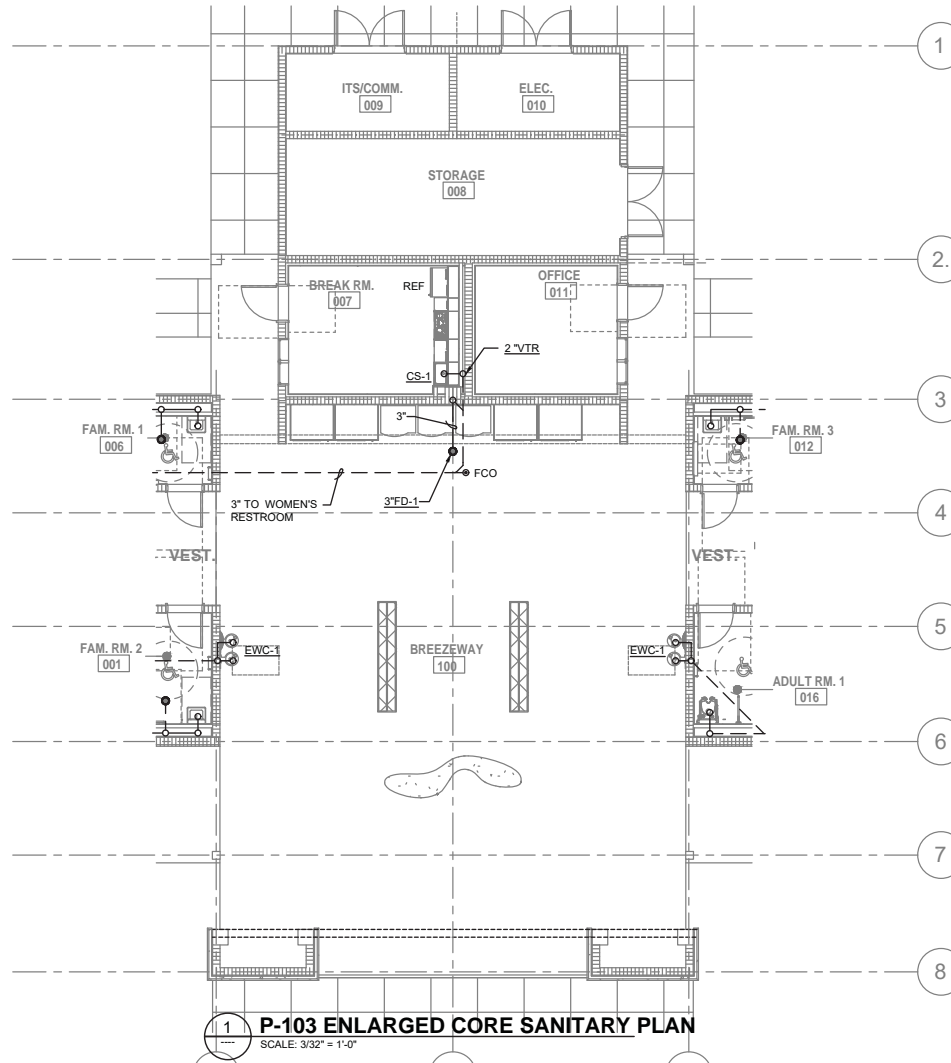
<div>0'8'16'24'</div>										<div><div></div>PROJECT NORTH</div>		100% CONSTRUCTION DOCUMENTS			
REVISIONS						<div><div><div></div><div></div></div><div><div>BOBES ASSOCIATES</div><div>1300 CIRCLE DRIVE, MAITLAND, FL 32751</div><div>TEL: (407) 826-0025</div><div>F: (407) 826-0025</div><div>FLORIDA STATE P.E. NUMBER: S131</div><div>000 BOBES JR. P.E., P.E. NUMBER 20410</div></div></div> <div>Augusto E. Bobes Jr., P.E. No. 39410</div>		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
DATE	BY	DESCRIPTION		DATE	BY			DESCRIPTION		ROAD NO.		COUNTY	FINANCIAL PROJECT ID	P-102	
										SR 8		COLUMBIA	438609-1-52-01	P-102 ENLARGED MENS ROOM SANITARY PLAN	SHEET NO.
															XX

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

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P-103 ENLARGED CORE SANITARY PLAN

SCALE: 3/32" = 1'-0"

PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. P-103
P-103 ENLARGED CORE SANITARY PLAN	SHEET NO. XX

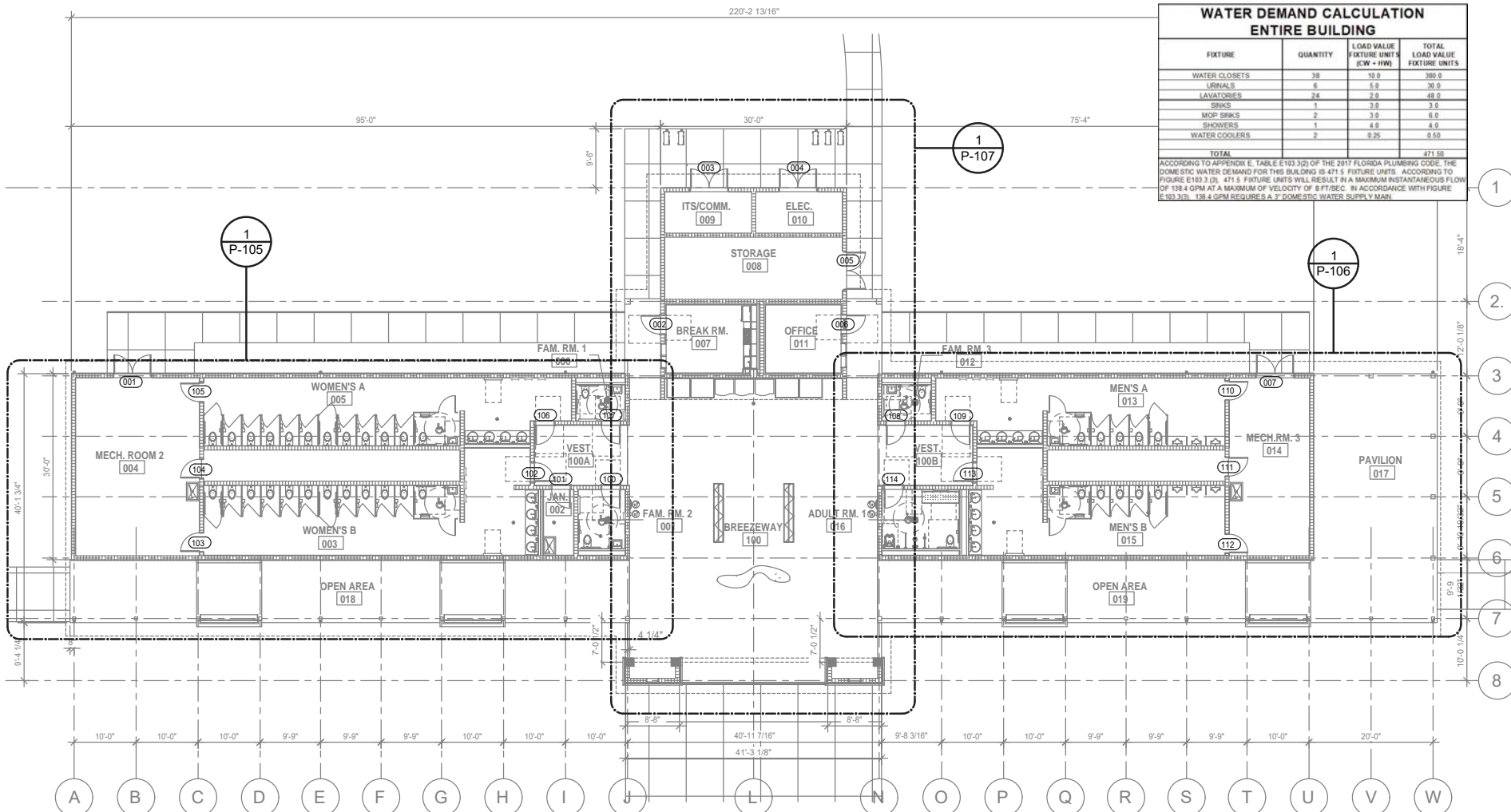
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



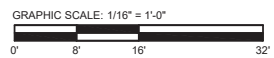
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01



1 P-104 DOMESTIC WATER OVERALL PLAN
SCALE: 1/16" = 1'-0"

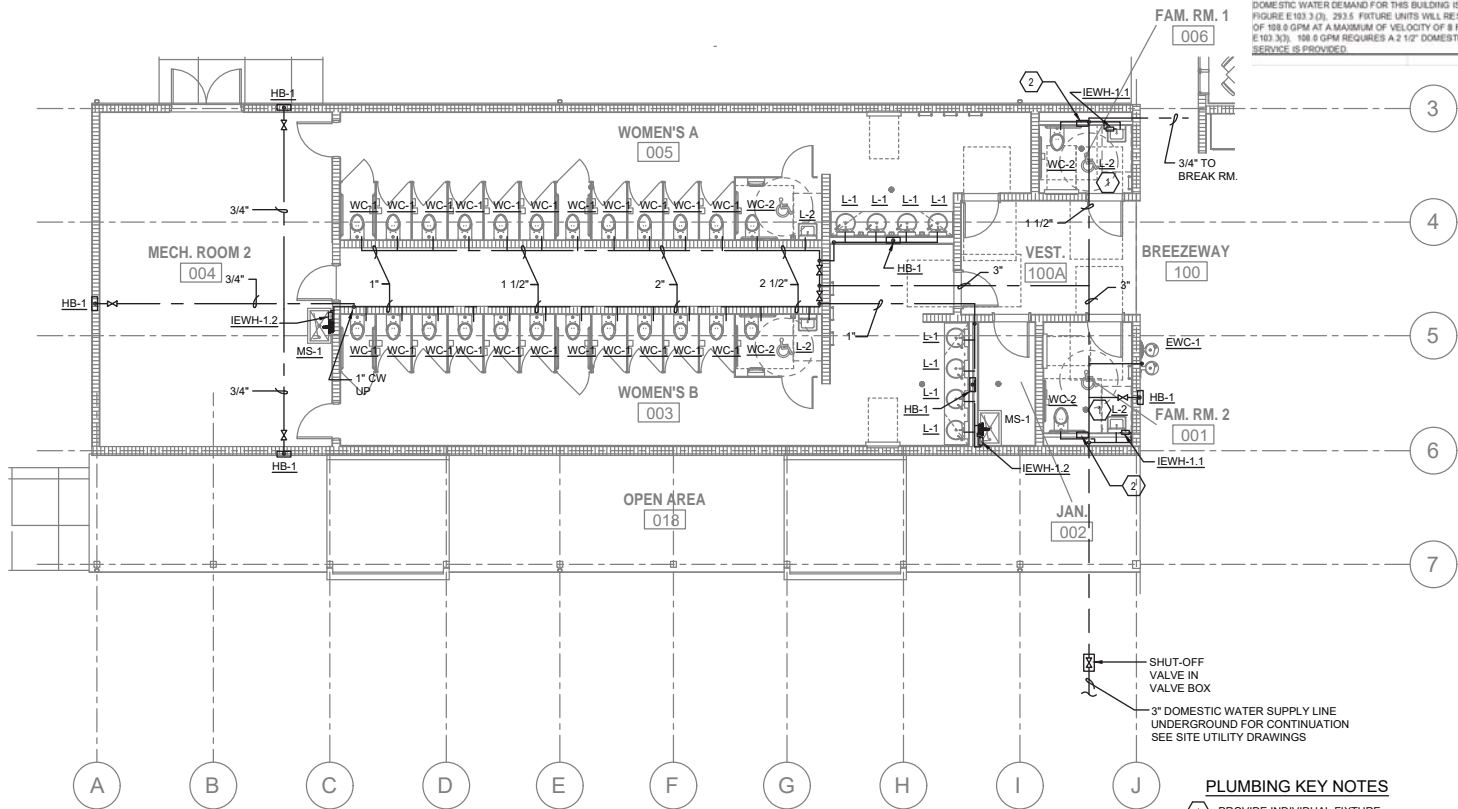


1 PROJECT NORTH **100% CONSTRUCTION DOCUMENTS**

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. P-104
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	P-104 DOMESTIC WATER OVERALL PLAN	SHEET NO.
						SR 8	COLUMBIA	438609-1-52-01		

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WATER DEMAND CALCULATION WOMEN'S RESTROOM			
FIXTURE	QUANTITY	LOAD VALUE FIXTURE UNITS (CW + HW)	TOTAL LOAD VALUE FIXTURE UNITS
WATER CLOSETS	26	10.0	260.0
LAVATORIES	12	2.0	24.0
SINKS	1	3.0	3.0
MOP SINKS	2	3.0	6.0
WATER COOLERS	2	0.25	0.50
TOTAL			293.50
ACCORDING TO APPENDIX E, TABLE E103.3(2) OF THE 2017 FLORIDA PLUMBING CODE, THE DOMESTIC WATER DEMAND FOR THIS BUILDING IS 293.5 FIXTURE UNITS. ACCORDING TO FIGURE E103.3(3), 293.5 FIXTURE UNITS WILL RESULT IN A MAXIMUM INSTANTANEOUS FLOW OF 198.0 GPM AT A MAXIMUM OF VELOCITY OF 8 FT/SEC. IN ACCORDANCE WITH FIGURE E103.3(3), 198.0 GPM REQUIRES A 2 1/2" DOMESTIC WATER SUPPLY MAIN. A 3" WATER SERVICE IS PROVIDED.			

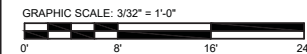


1 ENLARGED WOMEN'S RESTROOM DOMESTIC WATER PLAN
SCALE: 3/32" = 1'-0"

- PLUMBING KEY NOTES**
- 1 PROVIDE INDIVIDUAL FIXTURE TEMPERING/MIXING VALVE TMV-1 AT FIXTURE.
 - 2 PROVIDE 12"x12" LOCKABLE WALL ACCESS PANEL TO ACCESS INFRARED FLUSH VALVE/FAUCET POWER AND TRANSFORMER.

PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. P-105
P-105 ENLARGED WOMENS ROOM DOMESTIC WATER PLAN	SHEET NO.

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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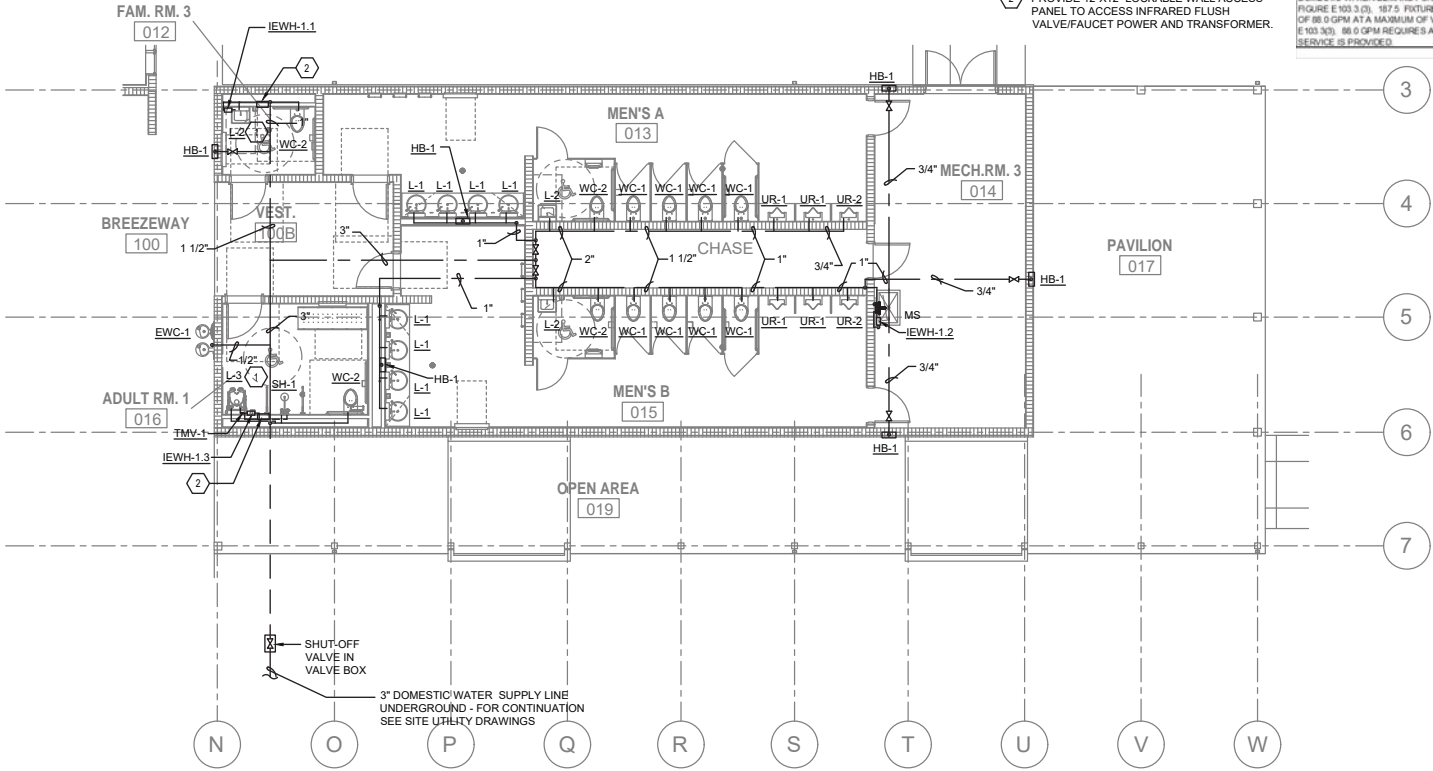
Augusto E. Bobes Jr., P.E. No. 39410

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

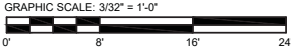
WATER DEMAND CALCULATION MEN'S RESTROOM			
FIXTURE	QUANTITY	LOAD VALUE FIXTURE UNITS (CW + HW)	TOTAL LOAD-VALUE FIXTURE UNITS
WATER CLOSETS	12	10.0	120.0
URINALS	6	5.0	30.0
LAVATORIES	12	2.0	24.0
SINKS	1	3.0	3.0
MOP SINKS	2	3.0	6.0
SHOWERS	1	4.0	4.0
WATER COOLERS	2	0.25	0.50
TOTAL			187.50
ACCORDING TO APPENDIX E, TABLE E 103.3(2) OF THE 2017 FLORIDA PLUMBING CODE, THE DOMESTIC WATER DEMAND FOR THIS BUILDING IS 187.5 FIXTURE UNITS. ACCORDING TO FIGURE E 103.3 (3), 187.5 FIXTURE UNITS WILL RESULT IN A MAXIMUM INSTANTANEOUS FLOW OF 88.0 GPM AT A MAXIMUM VELOCITY OF 8 FT/SEC. IN ACCORDANCE WITH FIGURE E 103.3(3), 88.0 GPM REQUIRES A 2 1/2" DOMESTIC WATER SUPPLY MAIN. A 3" WATER SERVICE IS PROVIDED.			

PLUMBING KEY NOTES

- 1
- PROVIDE INDIVIDUAL FIXTURE TEMPERING/MIXING VALVE TMV-1 AT FIXTURE.
- 2
- PROVIDE 12"x12" LOCKABLE WALL ACCESS PANEL TO ACCESS INFRARED FLUSH VALVE/FAUCET POWER AND TRANSFORMER.



1 ENLARGED MEN'S RESTROOM DOMESTIC WATER PLAN
SCALE: 3/32" = 1'-0"



PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

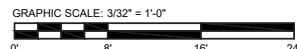
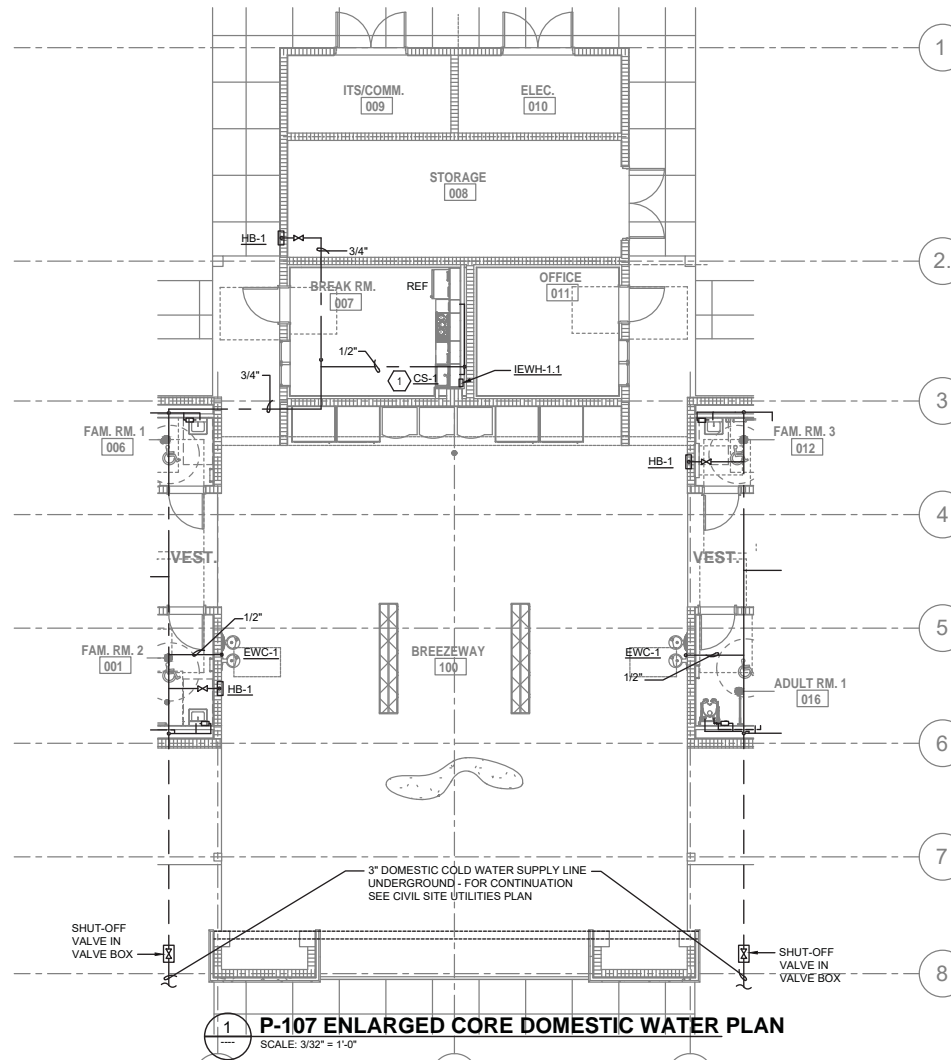
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA
P-106 ENLARGED MENS ROOM DOMESTIC WATER PLAN
DRAWING NO. P-106
SHEET NO. XX

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. SR 8
COUNTY COLUMBIA
FINANCIAL PROJECT ID 438609-1-52-01

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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- PLUMBING KEY NOTES**
- 1. PROVIDE INDIVIDUAL FIXTURE TEMPERING/MIXING VALVE TMV-1 AT FIXTURE.

P-107 ENLARGED CORE DOMESTIC WATER PLAN
SCALE: 3/32" = 1'-0"

PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
P-107 ENLARGED CORE DOMESTIC WATER PLAN		P-107	
		SHEET NO.	
		XX	

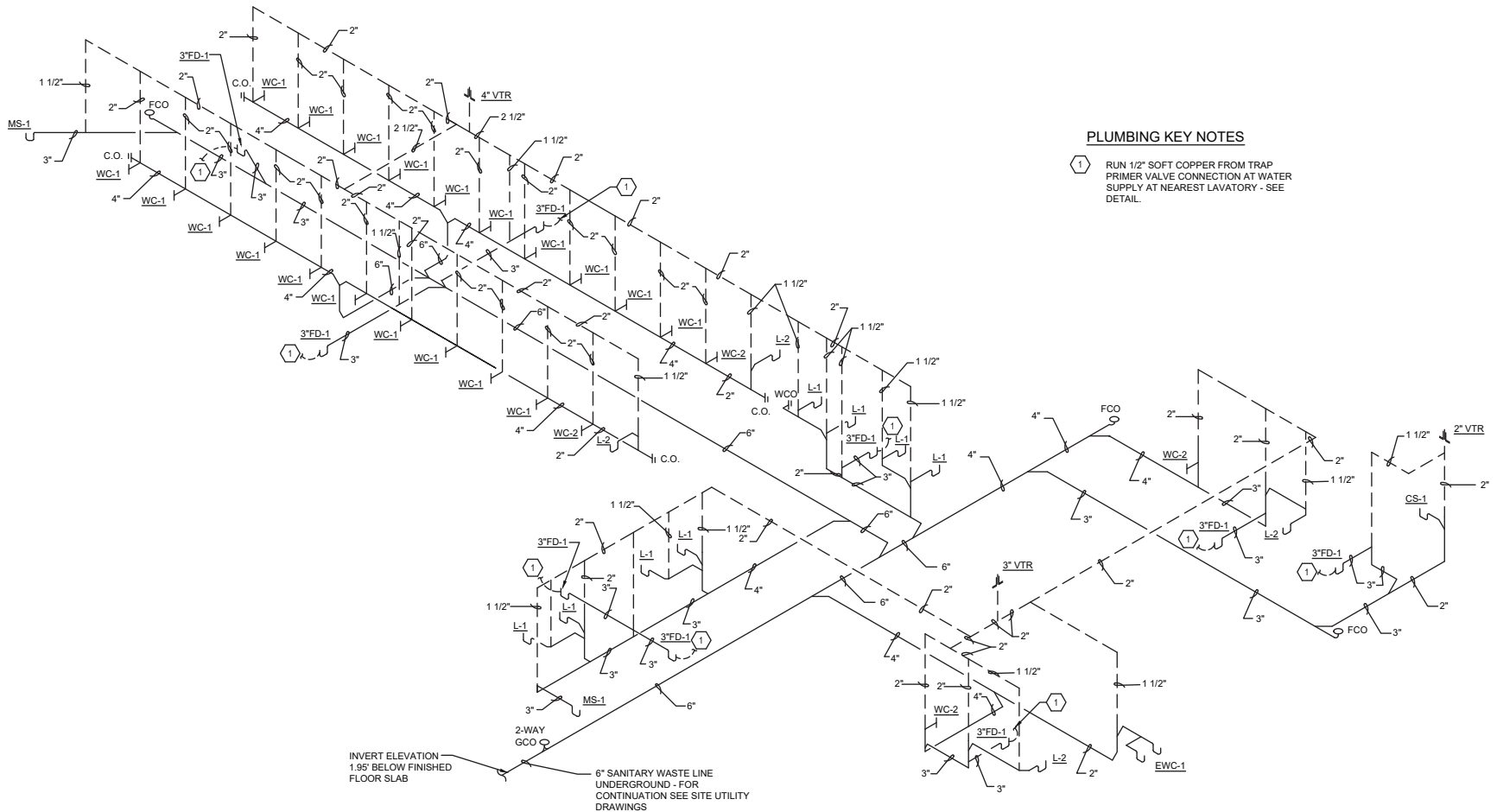
REVISIONS			
DATE	BY	DESCRIPTION	



BOBES ASSOCIATES, INC.
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BOBES ASSOCIATES, INC. IS A MEMBER OF THE
BOBES GROUP OF COMPANIES

Augusto E. Bobes Jr., P.E. No. 39410

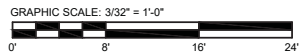
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01



PLUMBING KEY NOTES

- 1 RUN 1/2\"/>

1 SANITARY WASTE & VENT RISER DIAGRAM - WOMEN'S RESTROOM SCALE: NO SCALE



PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. P-201
P-201 WOMENS ROOM SANITARY RISER DIAGRAM	SHEET NO. XX

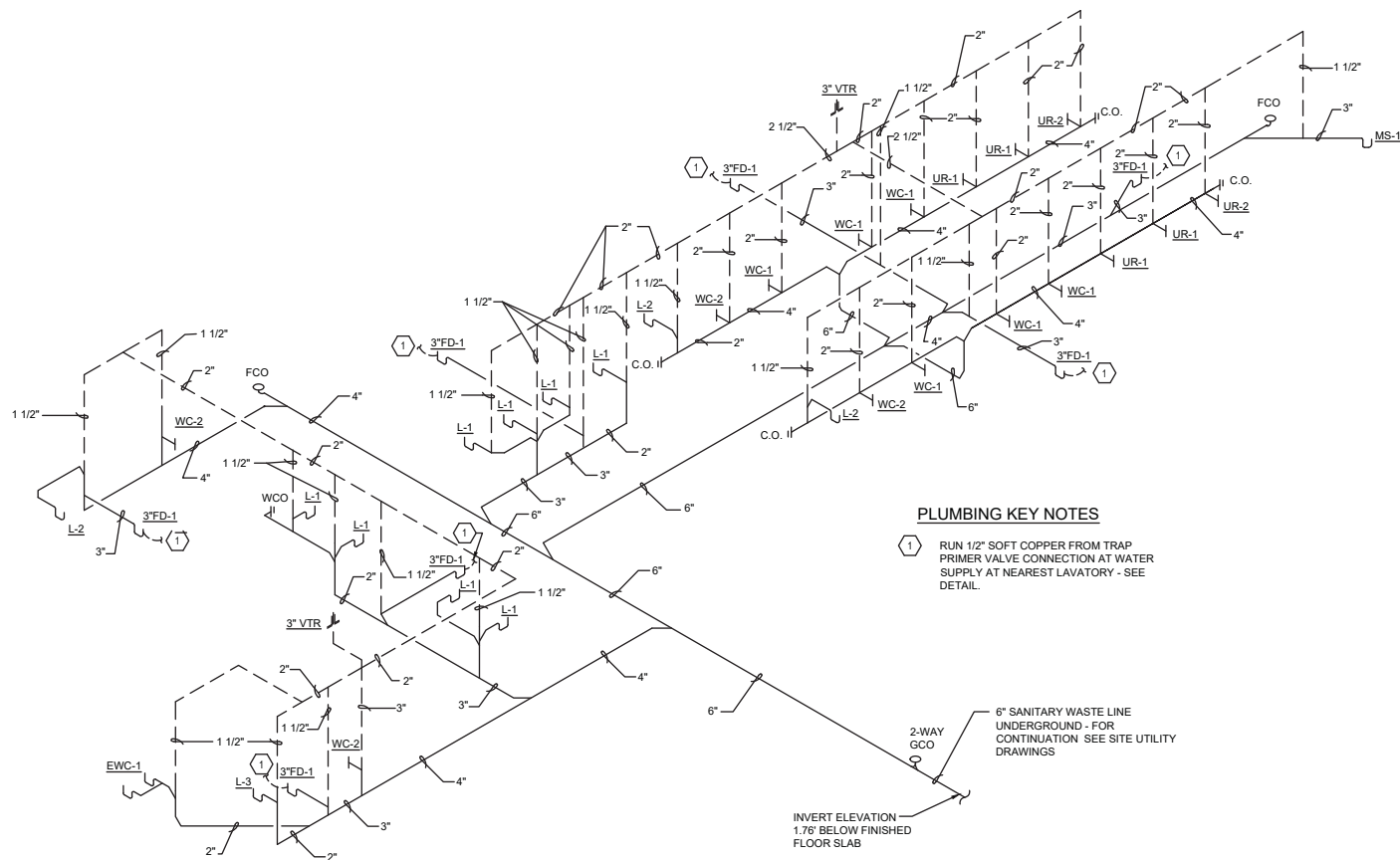
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BOBES JR., P.E. NUMBER 98410

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



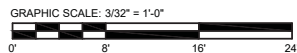
PLUMBING KEY NOTES

- 1 RUN 1/2\"/>

6\"/>

INVERT ELEVATION
1.76' BELOW FINISHED
FLOOR SLAB

1 SANITARY WASTE & VENT RISER DIAGRAM - MEN'S RESTROOM SCALE: NO SCALE



PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. P-202
P-202 MENS ROOM SANITARY RISER DIAGRAM	SHEET NO. XX

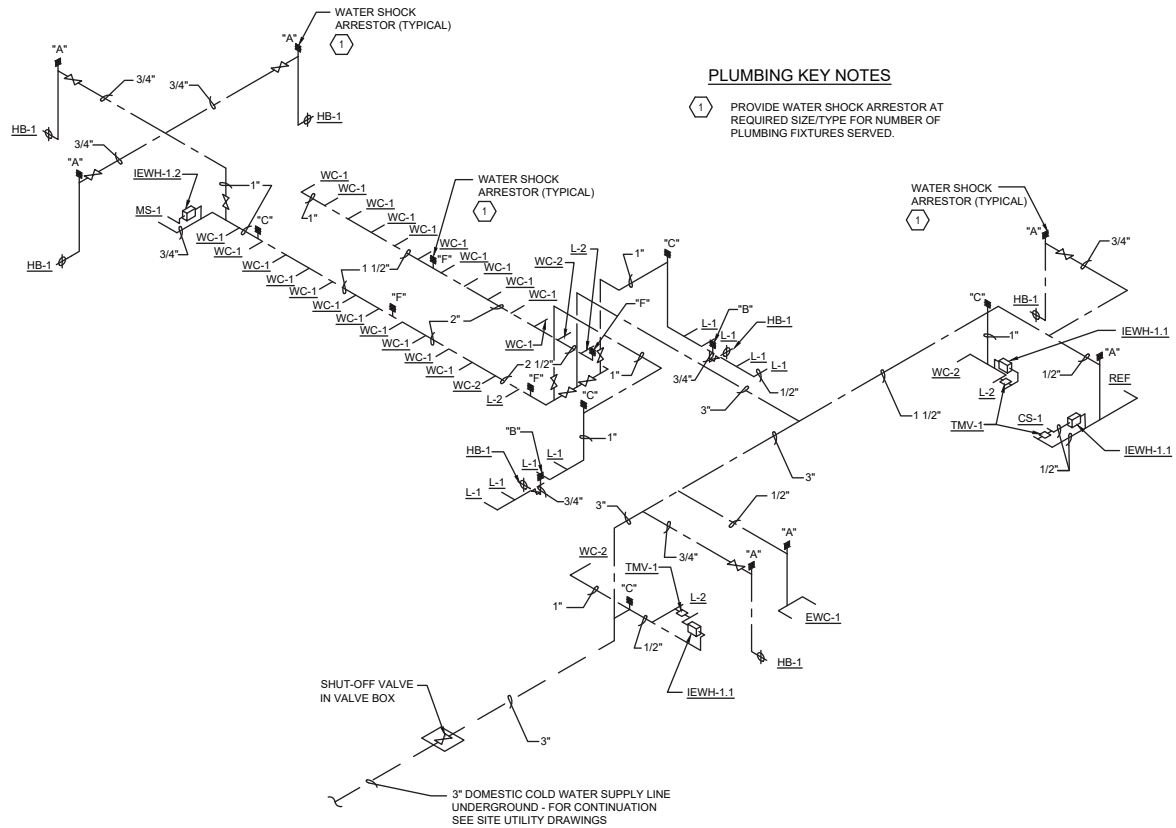
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 BOBES ASSOCIATES, P.E., P.E. NUMBER 39410

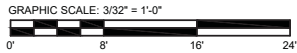
Augusto E. Bobes Jr., P.E. No. 39410

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

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**1 DOMESTIC WATER RISER DIAGRAM -
WOMEN'S RESTROOM**
SCALE: NO SCALE



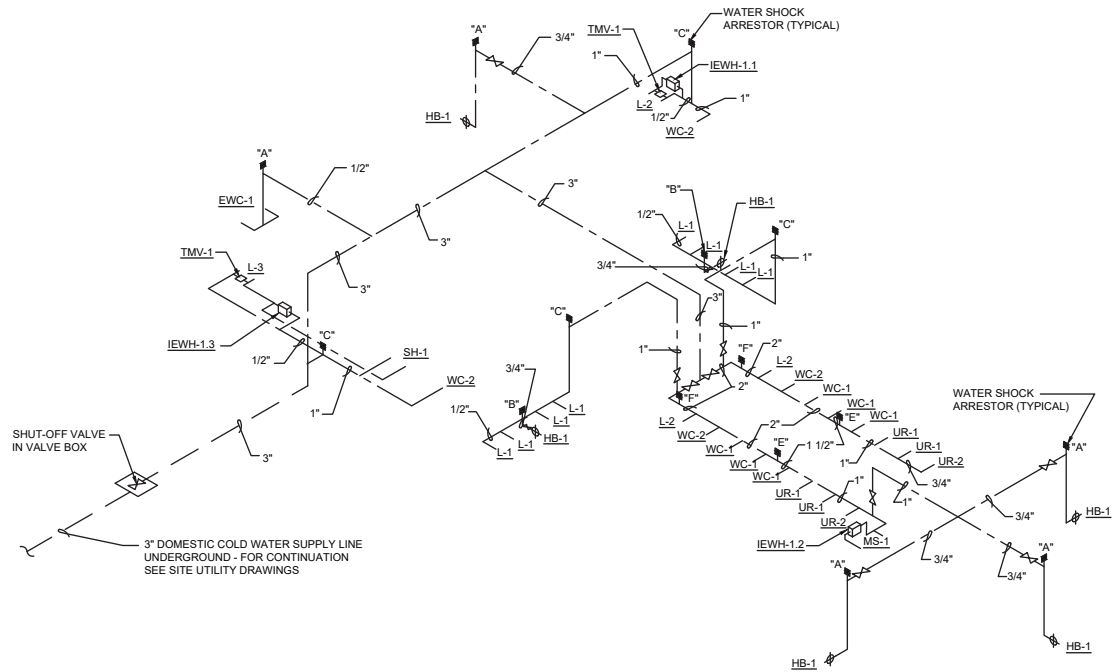
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TELEPHONE: 407.338.2882
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Augusto E. Bobes Jr., P.E. No. 39410

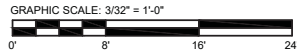
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. P-205
P-205 WOMENS ROOM DOMESTIC WATER RISER DIAGRAM	SHEET NO. XX

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1 DOMESTIC WATER RISER DIAGRAM -
MEN'S RESTROOM
SCALE: NO SCALE



PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
		P-206	
P-206 MENS ROOM DOMESTIC WATER RISER DIAGRAM		SHEET NO.	
		XX	

REVISIONS			
DATE	BY	DESCRIPTION	

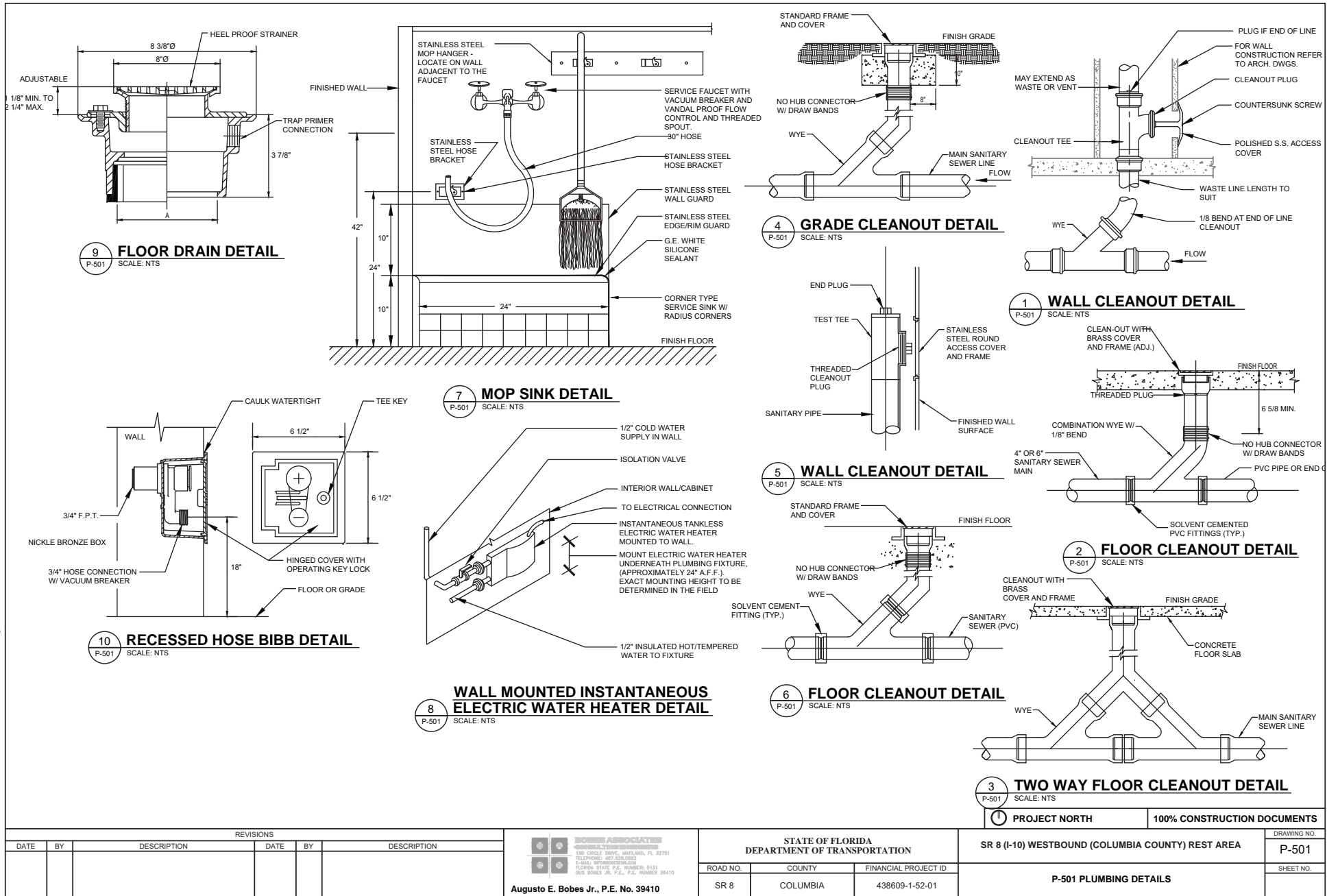


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P. 206 MENS ROOM DOMESTIC WATER RISER DIAGRAM
09/25/2013 J.E. BOBES JR., P.E., P.E. NUMBER 39410

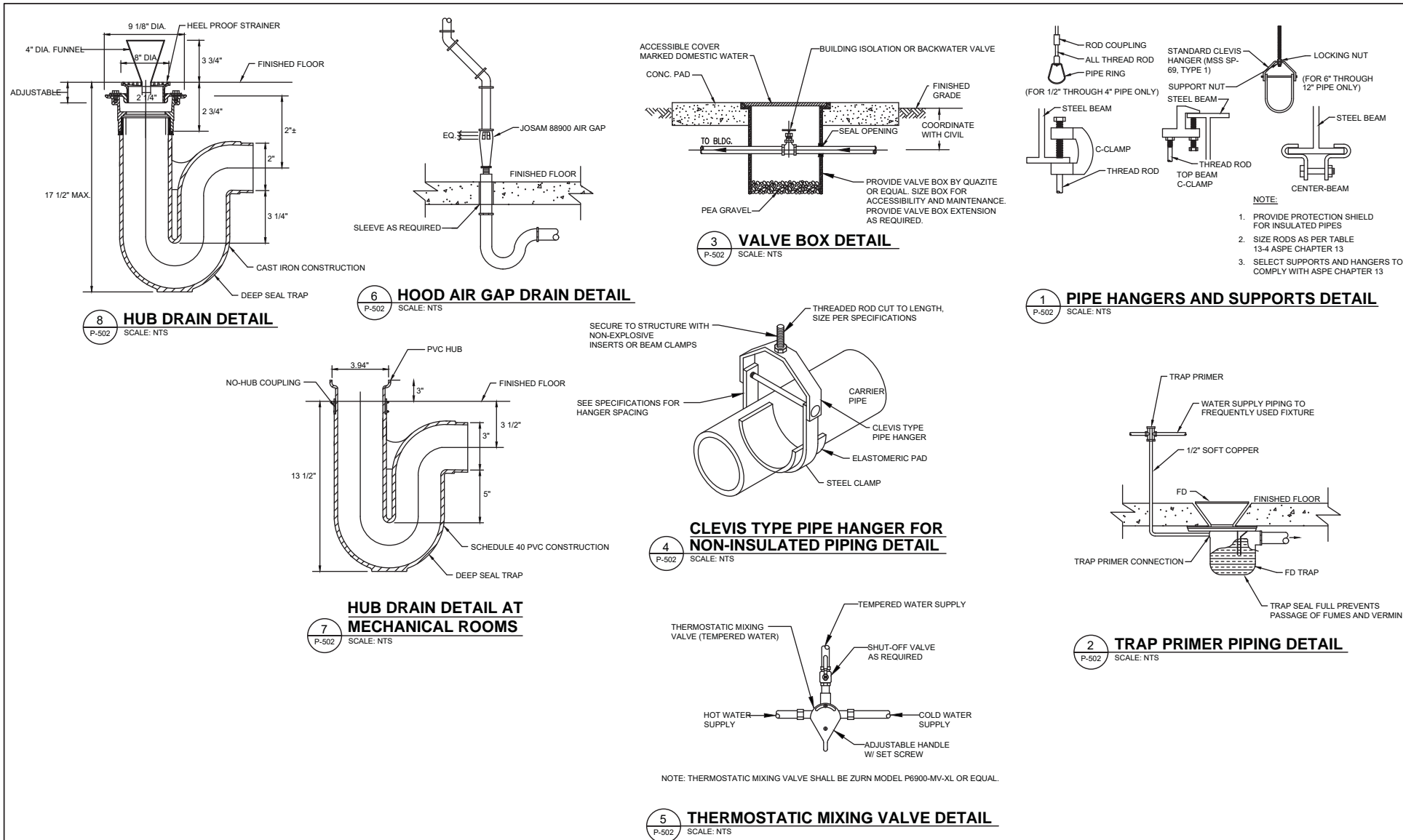
Augusto E. Bobes Jr., P.E. No. 39410



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

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						 PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
REVISIONS						<div><div></div><div>BOBES ASSOCIATES CONSULTING ENGINEERS 180 CIRCLE DRIVE, WATLAND, FL 32791 TELEPHONE: 407.338.2862 FAX: 407.338.2863 P-502A, REVISION NUMBER: 01/21 BOBES JR., P.E., P.E. NUMBER 08410</div></div> <div>Augusto E. Bobes Jr., P.E. No. 39410</div>		DRAWING NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			P-502	
								SHEET NO.	
						SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA			
						ROAD NO.		COUNTY	FINANCIAL PROJECT ID
						SR 8		COLUMBIA	438609-1-52-01
								P-502 PLUMBING DETAILS	

Y:\AutoCAD Files\Work\Gals-10 Rest Area - Columbia\MECHANICAL\P-601 PLUMBING SCHEDULES.dwg

PLUMBING FIXTURE SCHEDULE			
ITEM	FIXTURE	MANUFACTURER & MODEL #	DESCRIPTION
WC-1	WATER CLOSET - FLUSH VAVE WALL HUNG	AMERICAN STANDARD 2634101.020 WATER CLOSET	HARD WIRED ELECTRONIC, INFRARED SENSOR FLUSH VALVE; WHITE VITREOUS CHINA CONSTRUCTION, ELONGATED BOWL, 1.28 GPF, REAR SPUD, CONCEALED FLUSH VALVE, MANUAL OVERRIDE, HEAVY DUTY OPEN FRONT SEAT WITH S.S. CHECK HINGE. 500 lb RATED FLOOR MOUNTED CARRIER.
		AMERICAN STANDARD 606B222.007 FLUSH VALVE AMERICAN STANDARD PK00.HAC HARD WIRE KIT AMERICAN STANDARD 5901100.020 SEAT WATTS 15CA-101-L/R CARRIER	
WC-2	WATER CLOSET - FLUSH VAVE WALL HUNG - HANDICAPPED	AMERICAN STANDARD 2634101.020 WATER CLOSET AMERICAN STANDARD 606B222.007 FLUSH VALVE AMERICAN STANDARD PK00.HAC HARD WIRE KIT AMERICAN STANDARD 5901100.020 SEAT WATTS 15CA-101-L/R CARRIER	HANDICAPPED / ADA WATER CLOSET, HARD WIRED ELECTRONIC, INFRARED SENSOR FLUSH VALVE; WHITE VITREOUS CHINA CONSTRUCTION, ELONGATED BOWL, 1.28 GPF, REAR SPUD, CONCEALED FLUSH VALVE, MANUAL OVERRIDE, HEAVY DUTY OPEN FRONT SEAT WITH S.S. CHECK HINGE. 500 lb RATED FLOOR MOUNTED CARRIER.
UR-1	URINAL -FLUSH VAVE WALL HUNG -	AMERICAN STANDARD 6515001.020 URINAL AMERICAN STANDARD 606B301.007 FLUSH VALVE AMERICAN STANDARD PK00.HAC HARD WIRE KIT WATTS CA-321 CARRIER	HARD WIRED ELECTRONIC, INFARED SENSOR FLUSH VALVE; VITREOUS CHINA CONSTRUCTION, 1/8 GPF, REAR SPUD, CONCEALED FLUSH VALVE, MANUAL OVERRIDE, FLOOR MOUNTED PLATE TYPE CARRIER.
UR-2	URINAL -FLUSH VAVE WALL HUNG - HANDICAPPED	AMERICAN STANDARD 6515001.020 URINAL AMERICAN STANDARD 606B301.007 FLUSH VALVE AMERICAN STANDARD PK00.HAC HARD WIRE KIT WATTS CA-321 CARRIER	HANDICAPPED / ADA WATER URINAL, HARD WIRED ELECTRONIC, INFRARED SENSOR FLUSH VALVE, VITREOUS CHINA CONSTRUCTION, 1/8 GPF, REAR SPUD, CONCEALED FLUSH VALVE, MANUAL OVERRIDE, FLOOR MOUNTED PLATE TYPE CARRIER.
L-1	LAVATORY - COUNTER TOP	AMERICAN STANDARD 0476028.020 LAVATORY (AQUALYN) AMERICAN STANDARD 605B204.002 FAUCET(INNSBROOK) AMERICAN STANDARD PK00.HAC HARD WIRE KIT	20"X17" COUNTER TOP MOUNTING TYPE, ELECTRONIC INFRARED SENSOR FAUCET, WHITE VITREOUS CHINA CONSTRUCTION, 0.35 GPM FLOW RESTRICTOR, 4" CENTERSET FAUCET HOLES.
L-2	LAVATORY - WALL MOUNT - HANDICAPPED	AMERICAN STANDARD 0355012.020 LAVATORY (LUCERNE) AMERICAN STANDARD 605B204.002 FAUCET(INNSBROOK) AMERICAN STANDARD PK00.HAC HARD WIRE KIT WATTS TCA-411-WC CARRIER	20"X18" HANDICAPPED / ADA , WALL MOUNTED TYPE, ELECTRONIC INFRARED SENSOR FAUCET, WHITE VITREOUS CHINA CONSTRUCTION, 0.35 GPM FLOW RESTRICTOR, 4" CENTERSET FAUCET HOLES, FLOOR MOUNTED CONCEALED ARM CARRIER.
L-3	LAVATORY - WALL MOUNT - HANDICAPPED	AMERICAN STANDARD 9140047.020 LAVATORY (INNSBROOK) AMERICAN STANDARD 605B164.002 FAUCET(INNSBROOK) AMERICAN STANDARD PK00.HAC HARD WIRE KIT WATTS TCA-411-WC CARRIER	20"X27" HANDICAPPED / ADA FOR ADULT CHANGING, WALL MOUNTED TYPE, ELECTRONIC INFRARED SENSOR FAUCET, WHITE VITREOUS CHINA CONSTRUCTION, 0.35 GPM FLOW RESTRICTOR, 4" CENTERSET FAUCET HOLES, FLOOR MOUNTED CONCEALED ARM CARRIER.
SH-1	SHOWER - HANDICAPPED	SPEAKMAN SENTINEL MARK II SM-3090-ADA SHOWER/VALVE SPEAKMAN VS-100-PC SHOWER HEAD	HANDICAPPED / ADA, WALL MOUNTED TYPE, SHOWER VALVE AND HEAD ASSEMBLY, ANTI-SCALD PRESSURE BALANCED VALVE, CHROME PLATED CAST IRON BODY, SINGLE HANDLE, INTEGRAL SUPPLY STOPS.
CS-1	COUNTER SINK	ELKAY LRAD2219-6.5" SINK (LUSTERTONE) ELKAY LK406GN8T4 FAUCET	ADA SINK: SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL CONSTRUCTION, 6.5" DEEP BOWL, SELF-RIMMING DESIGN, UNDERCOATED FOR SOUND DAMPENING, SINGLE LEVER POST MOUNTED FAUCET WITH 10" SWING SPOUT, SPRAY AERATOR AND HOSE
MS-1	MOP SINK	FIAT TSB3013 TERRAZO SINK BASIN T&S BRASS B665-BSTR FAUCET	36"X24"X12" HIGH BASIN WITH 6" DROP FRONT, PRECAST TERRAZZO WITH STAINLESS STEEL THRESHOLD, FITTINGS: ROUGH CHROME MIXING VALVE/FAUCET WITH VACUUM BREAKER, INTEGRAL STOP, ADJUSTABLE WALL BRACE, PAIL HOOK, 3/4" HOSE THREAD, HOSE AND HOSE BRACKET, MOP HANGER, S.S. EDGE GUARD, S.S. WALL GUARD.
EWC-1	ELECTRIC WATER COOLER - HANDICAPPED	ELKAY LVRCGRWL8WSK ELECTRIC WATER COOLER ELKAY EZH20 BOTTLE FILLING STATION	TWO LEVEL ELECTRIC - HANDICAPPED, STAINLESS STEEL CONSTRUCTION, 8.0 GPH OF 50F WATER CAPACITY, BOTTLE FILLER ON LOW COOLER, HANDS FREE, INFRARED SENSOR ACTIVATED, VANDAL RESISTANT.
HB-1	WALL HYDRANT	WOODFORD B24 HOSE BIBB ZURN Z1335 HOSE BIBB WATTS HY330 HOSE BIBB	SELF DRAINING FROSTPROOF IN LOCKABLE ENCLOSURE, ANTI CONTAMINATION, 3/4" SIZE, ALL BRASS CONSTRUCTION, NICKEL PLATED FINISH, TEFLON IMPREGNATED PACKING, WITH INTEGRAL VACUUM BREAKER CONFORMING TO ASSE STANDARD 1011 AND U.S. HEALTH DEPARTMENT STANDARDS
TP-1	TPAP PRIMER VALVE	ZURN Z1022-XL	TRAP PRIMER VALVE: AUTOMATIC MACHINED OF CORROSION RESISTANT BRASS - CONTAINS NO SPRINGS OR DIAPHRAGMS. ADJUST TO HIGH OR LOW PRESSURES, LEAD FREE, VACUUM BREAKER, INLET 1/2" MALE NPT OPENING OUTLET 1/2" FEMALE NPT. PROVIDE DISTRIBUTION CENTERS AS REQUIRED


PLUMBING FIXTURE CONNECTION SCHEDULE							
SYMBOL	DESCRIPTION	CW	TW	HW	WASTE	VENT	REMARKS
WC-1	WATER CLOSET	1"	--	--	3"	2"	---
WC-2	WATER CLOSET	1"	--	--	3"	2"	ADA/HANDICAP
UR-1	URINAL	3/4"	--	--	2"	1 1/2"	---
UR-2	URINAL	3/4"	--	--	2"	1 1/2"	ADA/HANDICAP
L-1	LAVATORY	1/2"	1/2"	--	1 1/2"	1 1/4"	COUNTER
L-2	LAVATORY	1/2"	1/2"	--	1 1/2"	1 1/4"	ADA/HANDICAP
L-3	LAVATORY	1/2"	1/2"	--	1 1/2"	1 1/4"	ADULT
SH-1	HANDICAP SHOWER	1/2"	1/2"	--	3"	1 1/2"	ADA/HANDICAP
CS-1	COUNTER SINK	1/2"	1/2"	--	1 1/2"	1 1/4"	ADA/HANDICAP
MS-1	MOP SINK	1/2"	1/2"	1/2"	3"	1 1/2"	---
EWC-1	ELECTRIC WATER COOLER	1/2"	--	--	1 1/4"	1 1/4"	ADA/HANDICAP
HB-1	HOSE BIBB	3/4"	--	--	--	--	RECESSED

WATER HAMMER ARRESTOR SCHEDULE		
PIPE SIZE	FIXTURE UNITS	PD1
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1 1/4"	61-113	D
1 1/2"	114-154	E
2"	155-330	F

INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE														
UNIT NUMBER	KW	FLOW (GPM)	TEMP RISE -F	DISCHARGE TEMP. -F	WATER CONNECTION (INLET)	WATER CONNECTION (OUTLET)	VOLTS	POWER REQUIRED			BREAKER AMPS	MANUFACTURER/MODEL	NOTES	
								PHASE	CYCLES	AMPS	90°C WIRE			
IEWH-1.1	2.50	0.5	34	104	1/2"	1/2"	208	1	60	12	14 AWG	20	CHRONOMITE CM-12L/208	1-6
IEWH-1.2	6.24	1.0	43	113	1/2"	1/2"	208	1	60	30	10 AWG	30	CHRONOMITE CM-30L/208	1-6
IEWH-1.3	8.32	1.5	38	108	1/2"	1/2"	208	1	60	40	8 AWG	30	CHRONOMITE CM-40L/208	1-6

- NOTES
1. WATER HEATER SHALL HAVE A PRESET MAXIMUM TEMPERATURE.
 2. WATER HEATER SHALL MEET ADA REQUIREMENTS.
 3. WATER HEATER SHALL BE 90% EFFICIENT.
 4. CONTRACTOR SHALL INSTALL BALANCING VALVE ON THE 1/2" COLD WATER SUPPLY LINE FEEDING THIS WATER HEATER TO CONTROL WATER FLOW AND DISCHARGE TEMPERATURE.
 5. UNIT SHALL ACTIVATE AT 20 GPM FLOW RATE.
 6. FURNISH WITH A STAINLESS STEEL HOUSING.

REVISIONS						PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		P-601 PLUMBING SCHEDULES	
						SR 8		COLUMBIA	
						FINANCIAL PROJECT ID		438609-1-52-01	
						SR 8		COLUMBIA	
						FINANCIAL PROJECT ID		438609-1-52-01	



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Augusto E. Bobes Jr., P.E. NO. 39410

Y:\AutoCAD Files\Work\Gals-10 Rest Area - Columbia\ELECTRICAL\E-001 ELECTRICAL SYMBOL LEGEND AND GENERAL NOTES.dwg

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIXTURE TYPE DESIGNATION. SEE FIXTURE SCHEDULE. A: DENOTES FIXTURE TYPE.
	2' x 4' INDIRECT LED
	2' x 4' INDIRECT LED ON EMERGENCY CIRCUIT
	4' SURFACE MOUNTED LED FIXTURE
	4' SURFACE MOUNTED LED FIXTURE ON EMERGENCY CIRCUIT
	LED DOWNLIGHT
	LED DOWNLIGHT ON EMERGENCY CIRCUIT
	EXIT LIGHT
	20 AMP. DUPLEX RECEPTACLE, MOUNTED 18" A.F.F. U.O.N.
	20 AMP. DUPLEX RECEPTACLE, MOUNTED 48" A.F.F. U.O.N. (GFI)
	20 AMP. QUADRUPLX RECEPTACLE, MOUNTED 18" A.F.F. U.O.N.
	SPECIAL PURPOSE RECEPTACLE
	OUTLET OR JUNCTION BOX
	DATA OUTLET
	20 AMP OCCUPANCY SENSOR 48" AFF U.O.N.
	CEILING MOUNTED OCCUPANCY SENSOR 20 AMP
	20 AMP 120/277V LIGHT SWITCH, COLOR TO MATCH EXISTING, 48" A.F.F.
	MOTOR RATED TOGGLE SWITCH
	EMERGENCY POWER OFF SWITCH
	DISCONNECT SWITCH 3P INDICATES NO. OF POLES, 30A. INDICATES SWITCH RATING SIZE, 20A. INDICATES FUSE RATING, 3R INDICATES NEMA 3R AND * INDICATES FUSED PER MANUFACTURE RECOMMENDATION.
	TELEPHONE TERMINAL BOARD (TTB)
	FIRE ALARM HORN/STROBE
	FIRE ALARM SMOKE DETECTOR
	HEAT DETECTOR
	DOOR CONTACT CONCEALED TYPE
	TAMPER SWITCH
	FLOW SWITCH
	ELECTROMAGNETIC DOOR LOCK
	PUSH BUTTON RELEASE
	TV MONITOR OUTLET
	GROUND BUS BAR
	HOMERUN TO PANEL "A". 1, 3, 5 ARE CIRCUIT NUMBERS, SLASHES = NO. OF CONDUCTORS IN 3/4" CONDUIT UNLESS OTHERWISE NOTED. INSTALL A GROUND WIRE SIZED AS PER N.E.C. ART. 250 IN ALL CONDUIT RUNS. NO SLASHES INDICATES TWO CONDUCTORS, PLUS GROUND WIRE.
	INDICATES A CONDUIT RUN CONCEALED IN A CEILING OR WALL.
	INDICATES A CONDUIT RUN EXPOSE
	INDICATES A NEW CONDUIT RUN UNDERGROUND
	FLEXIBLE CONDUIT
	ROOF LIGHTNING CONDUCTOR
	GROUND LOOP CONDUCTOR
	AIR TERMINAL
	SPLITTER
	ROOF DOWN CONDUCTOR
	GROUND ROD

SYMBOL	DESCRIPTION
A.F.F.	ABOVE FINISH FLOOR
A/C	AIR CONDITION
B.C.	BELOW COUNTER
C., COND.	CONDUIT
CKT.	CIRCUIT
CONT.	CONTROLLER
DISC.	DISCONNECT
E, EXIST.	EXISTING TO REMAIN
E.C.	EMPTY CONDUIT
EQUIP.	EQUIPMENT
ER	EXISTING TO BE RELOCATED
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
F/N	FULL NEUTRAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND., G.	GROUND
LTG.	LIGHTING
MACH.	MACHINE
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
N.E.C.	NATIONAL ELECTRICAL CODE
N.T.S.	NOT TO SCALE
Ø, PH	PHASE
R	RELOCATED
RECEPT., REC.	RECEPTACLE
SW.	SWITCH
T.T.B.	TELEPHONE TERMINAL BOARD
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLT
W	WIRE
WP	WEATHERPROOF
WR	WEATHER - RESISTANT TYPE

ELECTRICAL GENERAL NOTES:

- PRIOR TO BID, VISIT JOB SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. SPECIAL ATTENTION SHALL BE GIVEN TO CONDITIONS OF PANELS AND SWITCHING EQUIPMENT WHERE NEW WORK IS REQUIRED. MODIFY EXISTING PANELS AND EQUIPMENT BY THE ADDITION OF CIRCUIT BREAKERS, WIRING, ETC. AS REQUIRED IN ORDER TO PROVIDE A COMPLETE AND OPERATING SYSTEM. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FLORIDA BUILDING CODE 6th EDITION (2017 FBC), THE 2014 NATIONAL ELECTRICAL CODE (NEC), ALL APPLICABLE LOCAL, COUNTY, AND STATE CODES AND STANDARDS, ALL REQUIREMENTS OF THE SERVICING ELECTRIC UTILITY AND THE AMERICANS WITH DISABILITIES ACT (ADA).
- CONTRACTOR SHALL GUARANTEE THE ENTIRE ELECTRICAL WORK, INCLUDING PARTS AND LABOR FOR A PERIOD OF ONE (1) YEAR AFTER FINAL WRITTEN ACCEPTANCE OF OWNER.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A GOOD WORKMANSHIP AND SHALL BE COMPLETED AND FULLY OPERATIVE TO THE ACCEPTANCE OF OWNER.
- MAINTAIN A COMPLETE SET OF ELECTRICAL PRINTS FOR INDICATING ALL CHANGES. USE COLORED PENCILS TO MARK CHANGES AT THE TIME OF EXECUTION AND DELIVER THE SET TO ARCHITECT / ENGINEER UPON COMPLETION.
- ALL MATERIALS SHALL BE NEW, OF AMERICAN MANUFACTURE, AND BEAR THE UNDERWRITER'S LABORATORY AND UNION LABELS AS APPLICABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DELIVERY SCHEDULES OF MATERIALS.
- CIRCUIT BREAKERS SHALL BE MOLDED CASE, BOLT-ON TYPE, OF QUICK-MAKE ACTION, RATED AT 10,000 (120V), 14,000 (277/480V) AIC RMS. SYMMETRICAL. EACH MOLDED CASE CIRCUIT BREAKER SHALL HAVE THERMAL MAGNETIC TRIP DEVICE.
- LIGHTING FIXTURES SHALL BE COMPLETE WITH ALL NECESSARY WIRING LAMP HOLDERS, REFLECTORS, GLASSWARE AND MOUNTING ACCESSORIES AS REQUIRED AND POLES.
- CONTRACTOR SHALL MAKE ALL NECESSARY EXCAVATIONS, CUTTING AND DO ALL REATTACHING AS NECESSARY FOR THE PROPER EXECUTION OF THIS WORK.
- AFTER COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS.
- ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. CONDUITS SHALL COMPLY WITH N.E.C. PVC CONDUIT SHALL BE SCHEDULE 40 AND SHALL BE USED WHERE CONDUIT IS RUN IN CONCRETE SLABS, OR UNDERGROUND. ELECTRICAL METALLIC TUBING CONDUIT SHALL BE USED ON ALL INTERIOR WIRING. GRS CONDUIT SHALL BE USED ON ALL EXTERIOR WIRING.
- ALL CONDUCTORS SHALL BE COPPER. NO CONDUCTOR SHALL BE SMALLER THAN No. 12 AWG. INSTALL A GROUNDING CONDUCTOR IN ALL CONDUITS SIZED PER N.E.C. INSULATION SHALL BE 600V. RATED AND SHALL BE THWN.
- VERIFY SERVICE VOLTAGE BEFORE ORDERING ANY ELECTRICAL EQUIPMENT.
- SPLICES FOR No. 6 AWG OR SMALLER SHALL BE MADE WITH UL LISTED MECHANICAL PRESSURE CONNECTORS. SPLICES FOR No. 4 AWG OR LARGER SHALL BE MADE WITH MECHANICAL PRESSURE, SOLDERLESS

- CONNECTORS, AND SHALL BE BURNDY SERVITS OR APPROVED EQUAL.
- ANY EXISTING EQUIPMENT OR DEVICES INADVERTENTLY DE-ENERGIZED OR DISCONNECTED SHALL BE RE-ENERGIZED AT NO COST TO THE OWNER.
 - EXISTING EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE OWNER AND SHALL BE REMOVED FROM THE JOB SITE.
 - COVER PLATES USED ON ALL WIRING DEVICES SHALL MATCH EXISTING.
 - OUTLET BOXES SHALL BE GALVANIZED, WITH SUITABLE PLASTER RINGS OR TRIMS TO CONFORM TO FINISH SURFACE AS REQUIRED. EXTRA LARGE BOXES SHALL BE USED IN ACCORDANCE WITH N.E.C. IN PLACE OF SIZE INDICATED WHERE NECESSARY TO PREVENT UNDUE CROWDING OF WIRES. GANG BOXES SHALL BE USED FOR GANG SWITCHES.
 - SAFETY SWITCHES SHALL BE HEAVY DUTY, FUSED OR NON-FUSED AND SIZES AS INDICATED.
 - GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250 OF THE N.E.C.
 - LOADS IN GUTTERS SHALL BE PROPERLY BALANCED BETWEEN PHASES.
 - EQUIPMENT SUPPLY BY OTHERS TO BE CONNECTED BY ELECTRICAL CONTRACTOR.
 - ELECTRICAL CONTRACTOR TO COORDINATE HIS WORK WITH ALL OTHER TRADES.
 - ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - PRIOR TO INSTALLATION OF ROUGH ELECTRICAL WIRING, CHECK NAMEPLATE DATA ON A/C EQUIPMENT TO OBTAIN CORRECT WIRE SIZES AND OVERCURRENT PROTECTION.
 - REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
 - ELECTRICAL DESIGN COMPLIES WITH THE FLORIDA ENERGY CODE - ENERGY CONSERVATION, 5TH EDITION.
 - CIRCUIT BREAKERS SERVING HVAC EQUIPMENT WITH A REQUIREMENT FOR HACR BREAKERS, IN THE RANGE OF 15 - 60 AMPS, UL APPROVED HACR BREAKERS SHALL BE USED.
 - ALL CONTRACTORS TO BE ELECTRICALLY OR MECHANICALLY HELD AS INDICATED ON THE DRAWINGS.
 - NEW WIRING DEVICES TO MATCH TYPE AND COLOR OF THE EXISTING DEVICES.
 - PROVIDE PULLWIRE IN EMPTY RACEWAYS.
 - PROVIDE NEW TYPED DIRECTORIES FOR PANELBOARDS.
 - MINIMUM CONDUIT SIZE FOR ELECTRICAL WORK SHALL BE 3/4" AND FOR DATA/VOICE SHALL BE 1" CONDUIT.

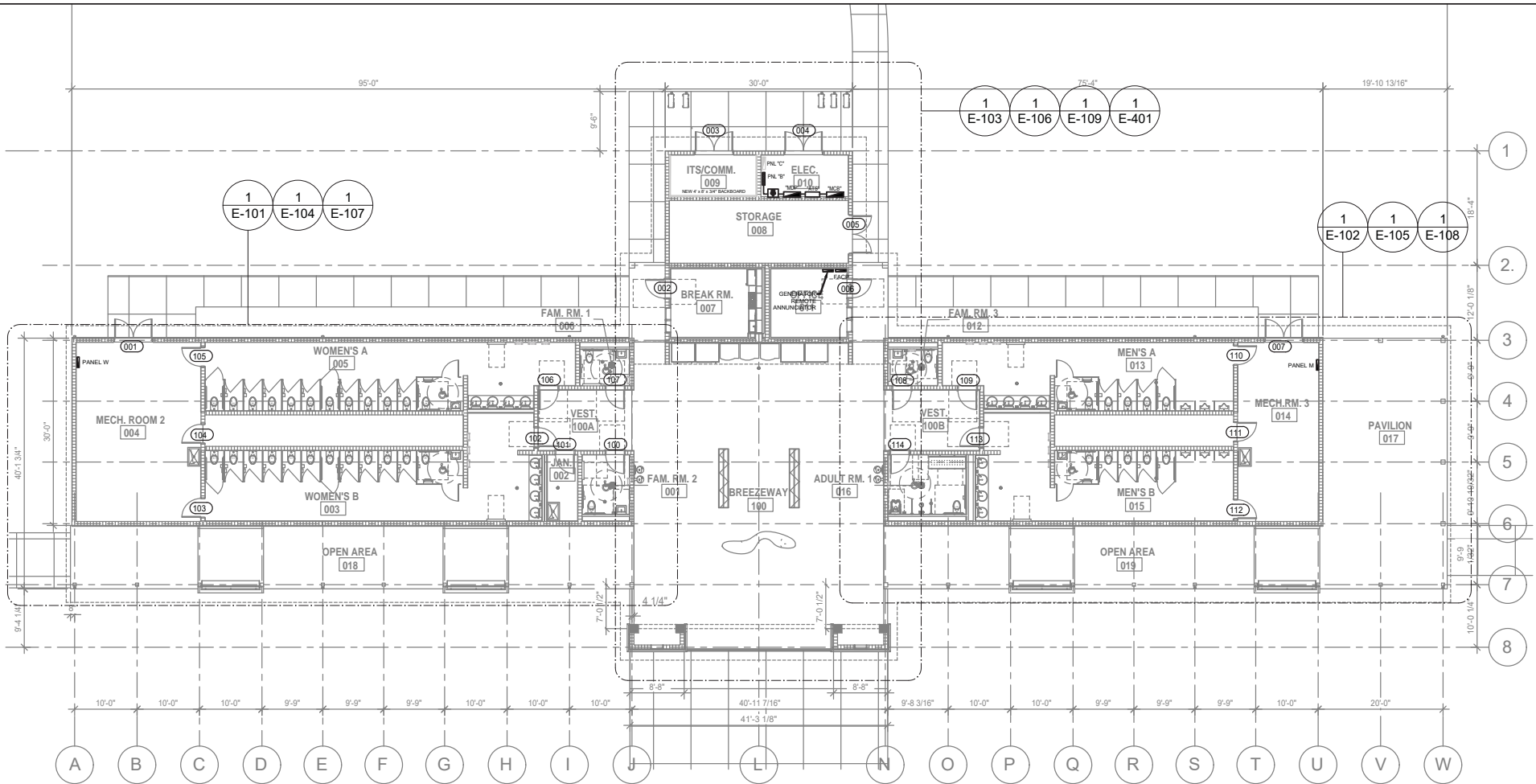
PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO. E-001	
E-001 ELECTRICAL SYMBOL LEGEND AND GENERAL NOTES		SHEET NO.	

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

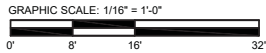
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1

E-100 ELECTRICAL OVERALL PLAN

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



PROJECT NORTH

100% CONSTRUCTION DOCUMENTS

SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA

DRAWING NO.

E-100

SHEET NO.

E-100 ELECTRICAL OVERALL PLAN



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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.

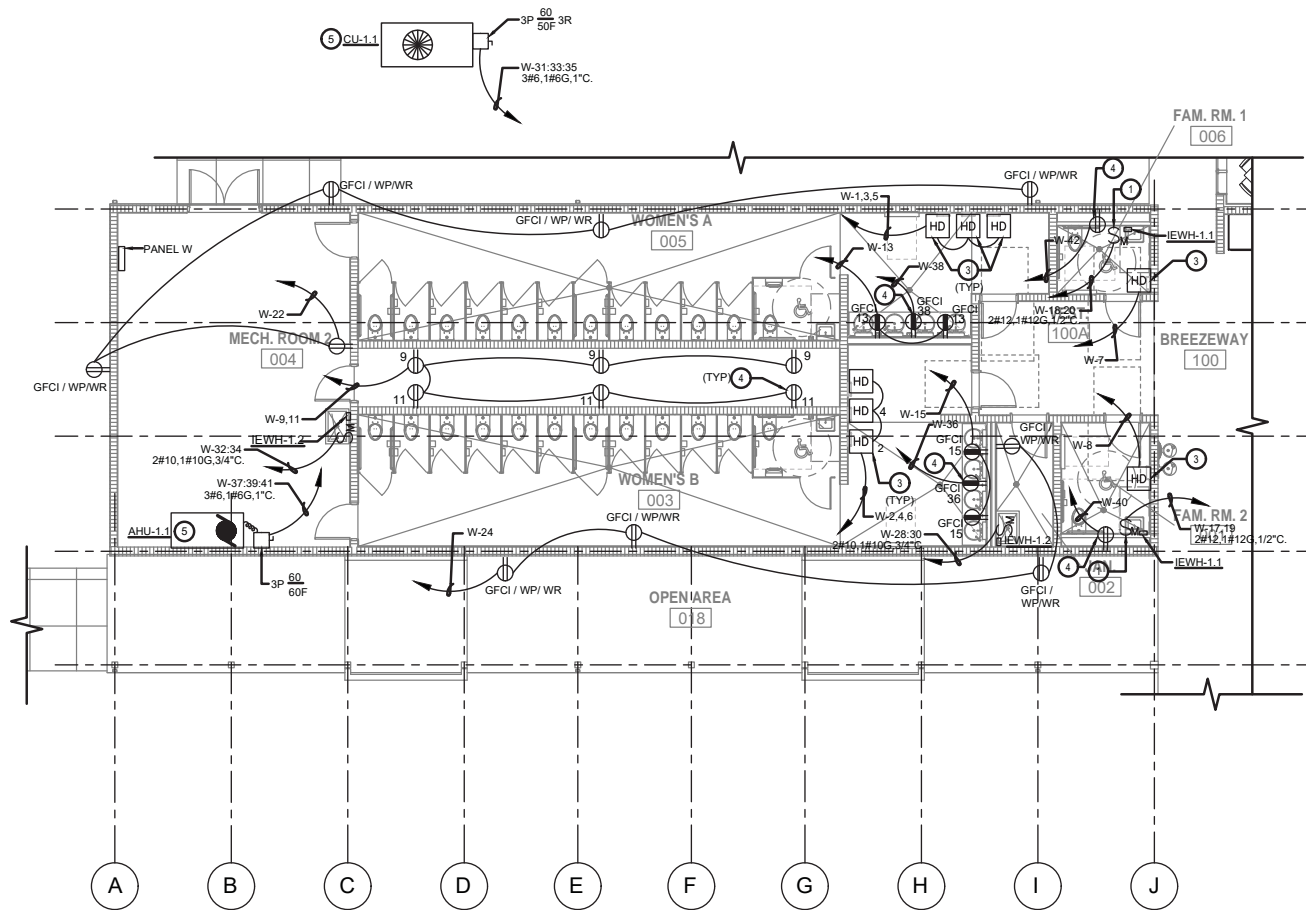
SR 8

COUNTY

COLUMBIA

FINANCIAL PROJECT ID

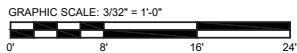
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ELECTRICAL NOTES:

- 1 PROVIDE CONNECTION TO INSTA-HOT VIA MOTOR RATED TOGGLE SWITCH LOCATED UNDER SINK.
- 2 PROVIDE RECEPTACLE FOR ELECTRIC WATER COOLER. LOCATE RECEPTACLE WITHIN CONCEALED COMPARTMENT. COORDINATE LOCATION WITH PLUMBING. BRANCH CIRCUIT CONNECTED TO GFCI CIRCUIT BREAKER.
- 3 PROVIDE CIRCUIT TO HAND DRYERS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.
- 4 PROVIDE RECEPTACLE AT 48" A.F.F. FOR CONNECTION TO FLUSH VALVE SENSORS AND FAUCET SENSORS. PROVIDE JUNCTION BOX WITH 2-GANG PLASTER RING IN RESTROOM FOR FLUSH VALVE SENSOR. COORDINATE LOCATION OF BOX WITH PLUMBING AND MOUNT PLASTER RING SO THAT SCREW HOLES ARE ON RIGHT AND LEFT SIDES PER MANUFACTURER'S REQUIREMENTS.
- 5 REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS PRIOR TO ROUGH-IN. TYPICAL.

E-101 ENLARGED WOMEN'S ROOM POWER PLAN
SCALE: 3/32" = 1'-0"



PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. E-101
E-101 ENLARGED WOMEN'S ROOM POWER PLAN	SHEET NO.

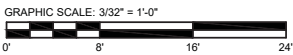
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

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E-102 ENLARGED MEN'S ROOM POWER PLAN
SCALE: 3/32" = 1'-0"

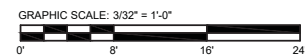
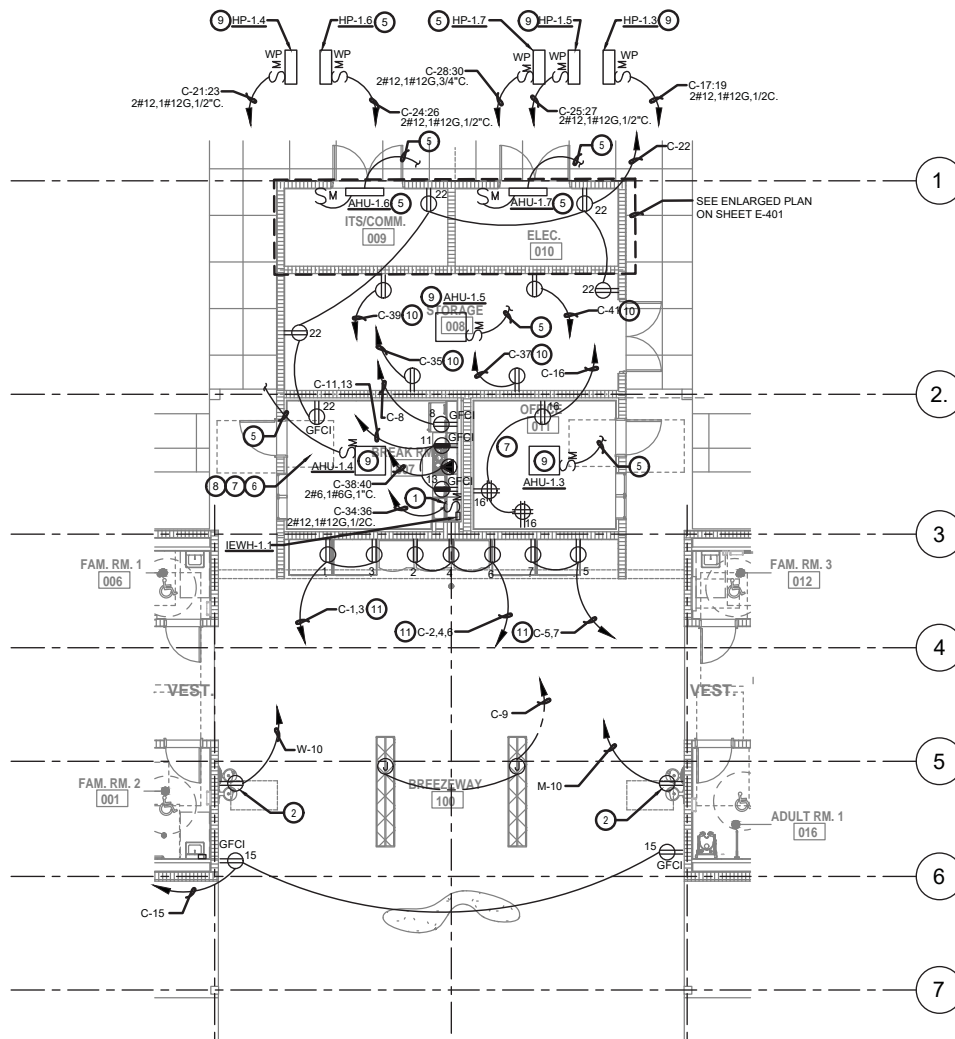
ELECTRICAL NOTES:

- 1 PROVIDE CONNECTION TO INSTA-HOT VIA MOTOR RATED TOGGLE SWITCH LOCATED UNDER SINK.
- 2 PROVIDE RECEPTACLE FOR ELECTRIC WATER COOLER. LOCATE RECEPTACLE WITHIN CONCEALED COMPARTMENT. COORDINATE LOCATION WITH PLUMBING. BRANCH CIRCUIT CONNECTED TO GFCI CIRCUIT BREAKER.
- 3 PROVIDE CIRCUIT TO HAND DRYERS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.
- 4 PROVIDE RECEPTACLE AT 48" A.F.F. FOR CONNECTION TO FLUSH VALVE SENSORS AND FAUCET SENSORS. PROVIDE JUNCTION BOX WITH 2-GANG PLASTER RING IN RESTROOM FOR FLUSH VALVE SENSOR. COORDINATE LOCATION OF BOX WITH PLUMBING AND MOUNT PLASTER RING SO THAT SCREW HOLES ARE ON RIGHT AND LEFT SIDES PER MANUFACTURER'S REQUIREMENTS.
- 5 PROVIDE CIRCUIT TO ADULT CHANGING TABLE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND MANUFACTURE SPECIFICATIONS PRIOR TO ROUGH-IN.
- 6 REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS PRIOR TO ROUGH-IN. TYPICAL.

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
						SR 8	COLUMBIA	438609-1-52-01
						SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		
						E-102 ENLARGED MEN'S ROOM POWER PLAN		
						DRAWING NO. E-102		
						SHEET NO.		

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1 E-103 ENLARGED CORE POWER PLAN
SCALE: 3/32" = 1'-0"

ELECTRICAL NOTES:

- 1 PROVIDE CONNECTION TO INSTA-HOT VIA MOTOR RATED TOGGLE SWITCH LOCATED UNDER SINK.
- 2 PROVIDE RECEPTACLE FOR ELECTRIC WATER COOLER. LOCATE RECEPTACLE WITHIN CONCEALED COMPARTMENT. COORDINATE LOCATION WITH PLUMBING. BRANCH CIRCUIT CONNECTED TO GFCI CIRCUIT BREAKER.
- 3 PROVIDE CIRCUIT TO HAND DRYERS, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.
- 4 NEW 4' x 8' x 3/4" BACKBOARD, CONDUIT STUB-UP UNDER BACKBOARD FROM TELECOM CONNECTION POINT AND PROVIDE NEW 50 PAIR 110 WIRING BLOCK AND SPD'S FOR VOICE CABLING. PROVIDE (4) PAY PHONE LINES, (4) PRIVATE PHONES LINES, (2) FIRE ALARM PHONE LINES, AND (1) EMERGENCY CALL BOX PHONE LINES.
- 5 POWER FOR INDOOR UNIT FED FROM EXTERIOR CONDENSER. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 6 REFER TO ARCH. DRAWINGS FOR EXACT MOUNTING HEIGHT OF RECEPTACLES IN BREAK ROOM.
- 7 PROVIDE AUTOMATIC RECEPTACLE CONTROL IN THE OFFICES, BREAK ROOMS, WORKSTATIONS AND CONFERENCE ROOM TO COMPLY WITH THE FLORIDA ENERGY CODE AND ASHRAE 90.1. SECTION 8.4.2. AND SHALL BE MARKED ACCORDING TO 2014 NEC 406.3(E) RECEPTACLES ARE CONTROLLED THRU LIGHTING OCCUPANCY SENSOR AND PLUG LOAD CONTROLLER. SEE DETAIL ON LIGHTING PLAN. SPLIT-WIRE RECEPTACLE SO THAT TOP HALF IS CONTROLLED AND PROVIDE CONTROLLED RECEPTACLES WITH THE APPROPRIATE MARKING. SEE SHEET E-4.1 FOR CONTROLS.
- 8 REFER TO ARCH. DRAWINGS FOR EXACT MOUNTING HEIGHT OF RECEPTACLES/J-BOXES FOR MICROWAVE AND RANGE HOOD IN BREAK ROOM. CONNECT CIRCUIT C-44 TO RANGE HOOD AND CIRCUIT C-46 FOR MICROWAVE AND SHALL HAVE GFCI RECEPTACLES.
- 9 REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS PRIOR TO ROUGH-IN. TYPICAL.
- 10 RECEPTACLE FOR REFRIGERATOR. BRANCH CIRCUIT ARE CONNECTED TO GFCI CIRCUIT BREAKER. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- 11 RECEPTACLE FOR VENDING MACHINES. BRANCH CIRCUIT ARE CONNECTED TO GFCI CIRCUIT BREAKER. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

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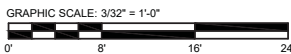
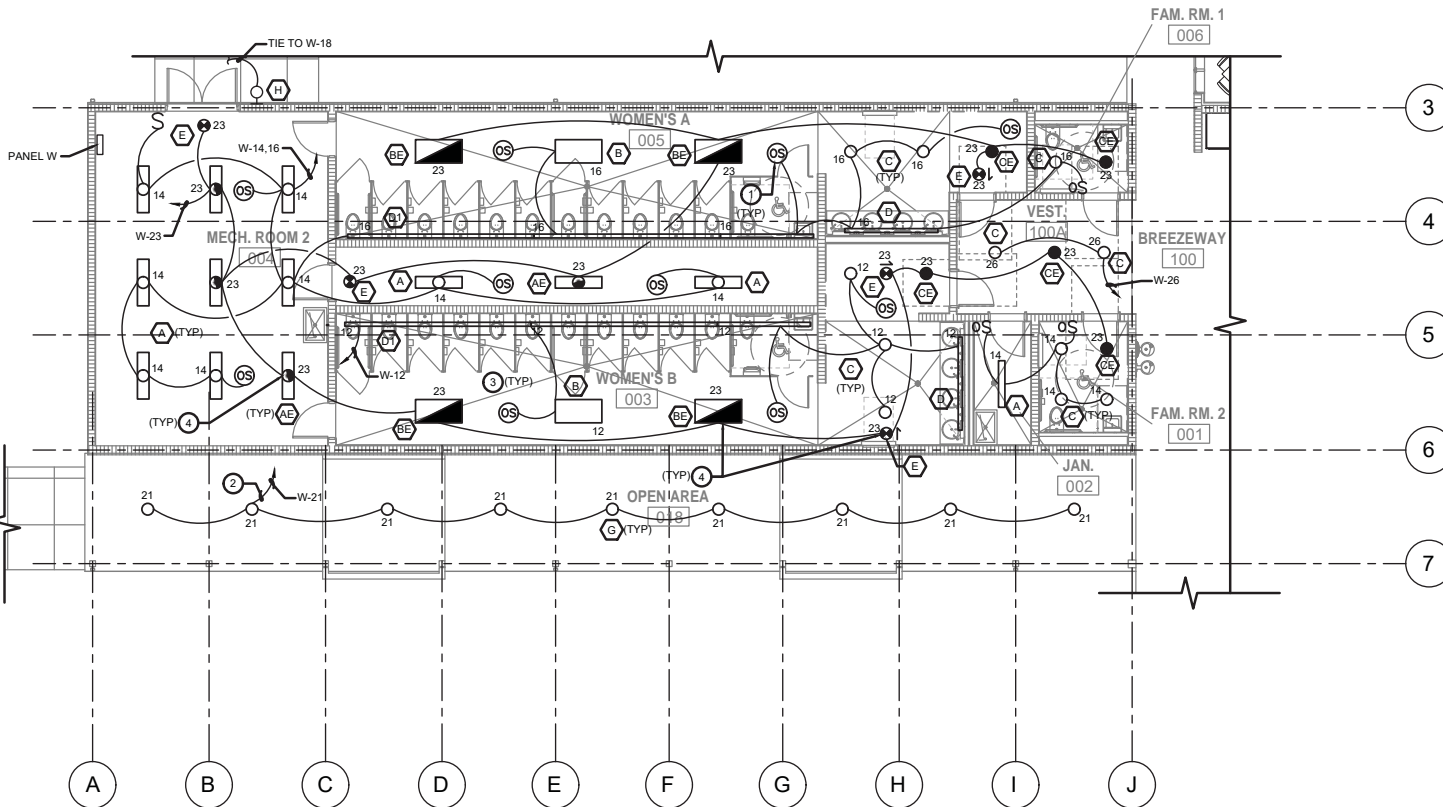
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. E-103
E-103 ENLARGED CORE POWER PLAN	SHEET NO.



E-104 ENLARGED WOMEN'S ROOM LIGHTING PLAN
SCALE: 3/32" = 1'-0"

ELECTRICAL NOTES:

- 1 CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- 2 CIRCUIT TO BE ROUTED THROUGH LIGHTING CONTACTOR.
- 3 FOR LIGHTING FIXTURE EXACT LOCATIONS REFER TO ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.
- 4 ALL EMERGENCY LIGHTS/ EXIT LIGHTS FIXTURES SHALL BE CONNECTED AHEAD OF THE SWITCH LEG.

LEVITON OCCUPANCY SENSOR NOTES:

CONTACT WESTERN FLORIDA LIGHTING ORLANDO- MR. DAVID ERICHSEN AT 407- 740-6973 FOR ANY LEVITON CONTROLS INFORMATION.

THE BASIS OF LIGHTING CONTROL FOR THIS PROJECT IS COMPONENTS MANUFACTURED BY LEVITON, INC. ALL EQUIPMENT SHALL BE LOCATED, INSTALLED AND PROGRAMMED ACCORDING TO MANUFACTURER'S INSTRUCTIONS, AND SHALL AUTOMATICALLY TURN OFF LIGHT SWITCH IN 30 MINUTES OF ALL OCCUPANTS LEAVING.

ADDITIONAL SENSORS MAY BE REQUIRED TO PROVIDE COMPLETE COVERAGE DEPENDING ON PARTITION HEIGHT/PLACEMENT, FURNITURE PLACEMENT, EQUIPMENT HEIGHT/PLACEMENT AND SHELVEING HEIGHT/PLACEMENT.

LIGHTING CONTROL AND SENSOR LAYOUTS ARE DONE ACCORDING TO CURRENT FLORIDA ENERGY CODE AND FEDERAL ENERGY GUIDELINES UNLESS SPECIFIED OTHERWISE.

PROGRAMMING OF DIGITAL DEVICES SHALL BE VIA A REMOTE HANDHELD IR PROGRAMMER CONTROL. SWITCHES SHALL BE PROGRAMMED FOR MANUAL ON OPERATION EXCEPT FOR LOBBIES, CORRIDORS AND RESTROOMS WHICH SHALL BE AUTO ON.

PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. E-104
E-104 ENLARGED WOMEN'S ROOM LIGHTING PLAN	SHEET NO.

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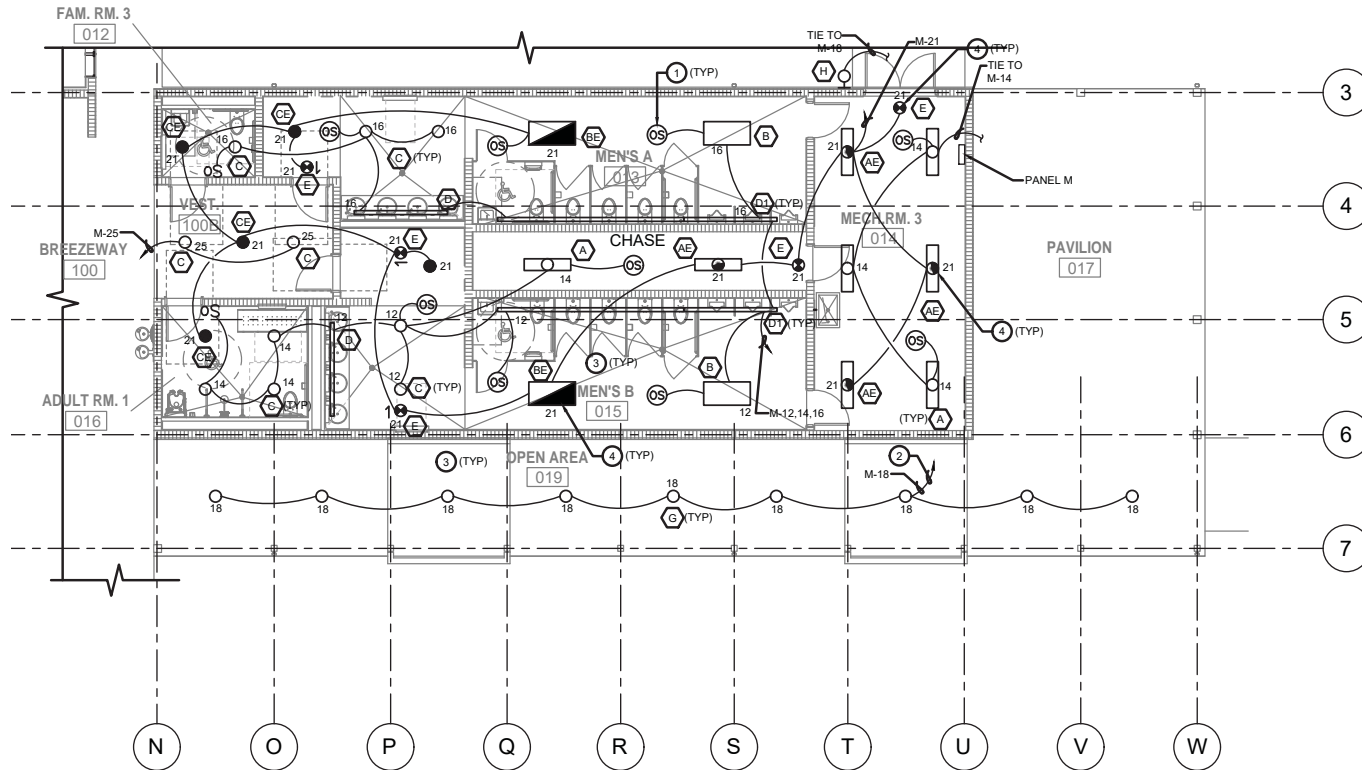
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

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ELECTRICAL NOTES:

- 1 CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- 2 CIRCUIT TO BE ROUTED THROUGH LIGHTING CONTACTOR.
- 3 FOR LIGHTING FIXTURE EXACT LOCATIONS REFER TO ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.
- 4 ALL EMERGENCY LIGHTS/ EXIT LIGHTS FIXTURES SHALL BE CONNECTED AHEAD OF THE SWITCH LEG.

LEVITON OCCUPANCY SENSOR NOTES:

CONTACT WESTERN FLORIDA LIGHTING ORLANDO- MR. DAVID ERICHSEN AT 407- 740-6973 FOR ANY LEVITON CONTROLS INFORMATION.

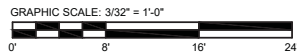
THE BASIS OF LIGHTING CONTROL FOR THIS PROJECT IS COMPONENTS MANUFACTURED BY LEVITON, INC. ALL EQUIPMENT SHALL BE LOCATED, INSTALLED AND PROGRAMMED ACCORDING TO MANUFACTURER'S INSTRUCTIONS, AND SHALL AUTOMATICALLY TURN OFF LIGHT SWITCH IN 30 MINUTES OF ALL OCCUPANTS LEAVING.

ADDITIONAL SENSORS MAY BE REQUIRED TO PROVIDE COMPLETE COVERAGE DEPENDING ON PARTITION HEIGHT/PLACEMENT, FURNITURE PLACEMENT, EQUIPMENT HEIGHT/PLACEMENT AND SHELVEING HEIGHT/PLACEMENT.

LIGHTING CONTROL AND SENSOR LAYOUTS ARE DONE ACCORDING TO CURRENT FLORIDA ENERGY CODE AND FEDERAL ENERGY GUIDELINES UNLESS SPECIFIED OTHERWISE.


PROGRAMMING OF DIGITAL DEVICES SHALL BE VIA A REMOTE HANDHELD IR PROGRAMMER CONTROL. SWITCHES SHALL BE PROGRAMMED FOR MANUAL ON OPERATION EXCEPT FOR LOBBIES, CORRIDORS AND RESTROOMS WHICH SHALL BE AUTO ON.

E-105 ENLARGED MEN'S ROOM LIGHTING PLAN
SCALE: 3/32" = 1'-0"



0' 6' 12' 24'

REVISIONS					
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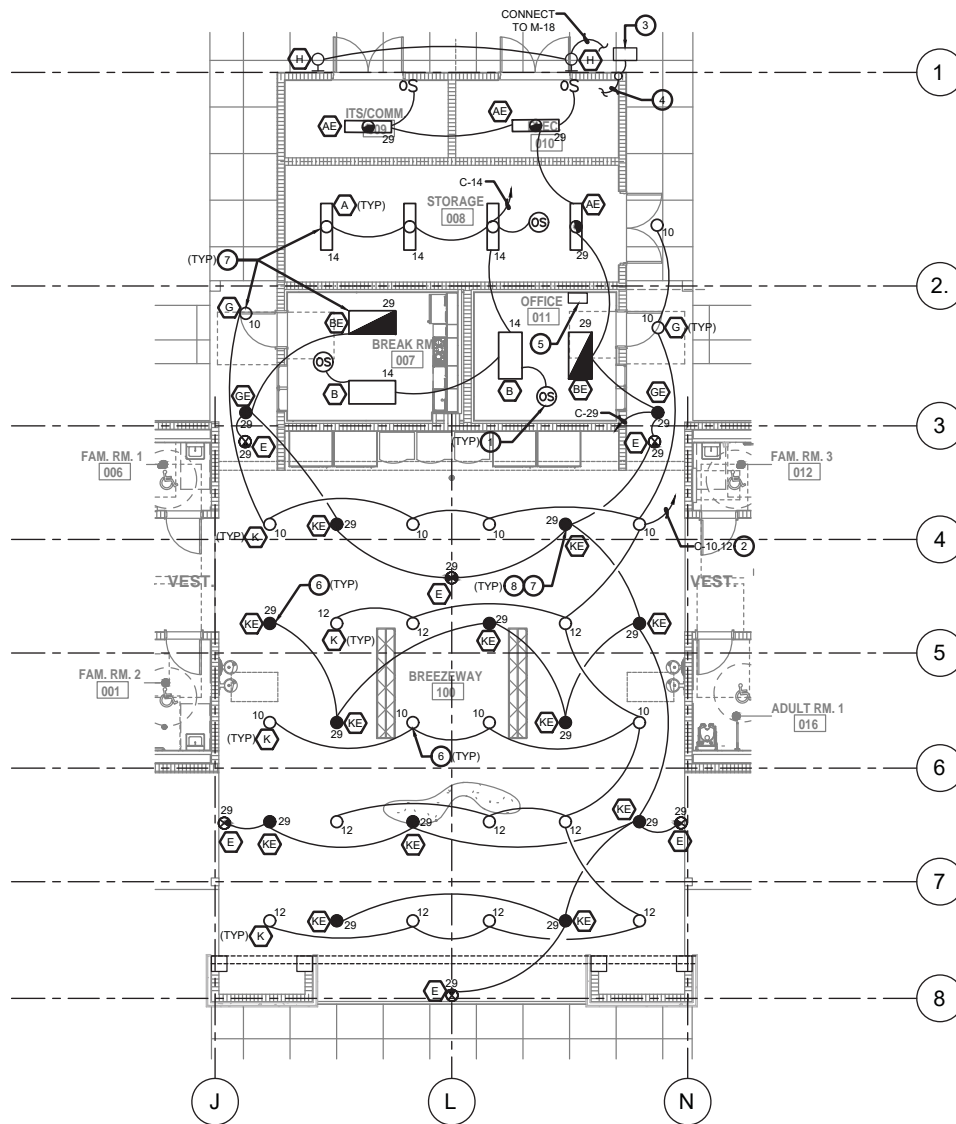


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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. E-105
E-105 ENLARGED MEN'S ROOM LIGHTING PLAN	SHEET NO.



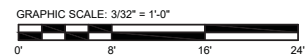
ELECTRICAL NOTES:

- 1 CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- 2 CIRCUIT TO BE ROUTED THROUGH LIGHTING CONTACTOR.
- 3 13"x24" PULL BOX FOR ROADWAY LIGHTING. REFER TO SITE LIGHTING PLANS FOR CONTINUATION.
- 4 6/6 & 1/6 GROUND IN 2" CONDUIT TO ROADWAY LIGHTING PANEL IN ELECTRICAL ROOM #010.
- 5 PROVIDE A 3-GANG SWITCH BANK WITH PUSH BUTTON TIMER SWITCHES (KIATT STOPPER TS-400 OR EQUAL) TO OVERRIDE EXTERIOR LIGHTING CONTACTORS. SEE WIRING DIAGRAM ON SHEET E-603.
- 6 FOR EXACT LOCATION AND MOUNTING DETAIL OF FIXTURE TYPE "K" AND "KE". SEE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH IN.
- 7 FOR LIGHTING FIXTURE EXACT LOCATIONS REFER TO ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.
- 8 ALL EMERGENCY LIGHTS/ EXIT LIGHTS FIXTURES SHALL BE CONNECTED AHEAD OF THE SWITCH LEG.

LEVITON OCCUPANCY SENSOR NOTES:

- CONTACT WESTERN FLORIDA LIGHTING ORLANDO- MR. DAVID ERICHSEN AT 407- 740-6973 FOR ANY LEVITON CONTROLS INFORMATION.
- THE BASIS OF LIGHTING CONTROL FOR THIS PROJECT IS COMPONENTS MANUFACTURED BY LEVITON, INC. ALL EQUIPMENT SHALL BE LOCATED, INSTALLED AND PROGRAMMED ACCORDING TO MANUFACTURER'S INSTRUCTIONS, AND SHALL AUTOMATICALLY TURN OFF LIGHT SWITCH IN 30 MINUTES OF ALL OCCUPANTS LEAVING.
- ADDITIONAL SENSORS MAY BE REQUIRED TO PROVIDE COMPLETE COVERAGE DEPENDING ON PARTITION HEIGHT/PLACEMENT, FURNITURE PLACEMENT, EQUIPMENT HEIGHT/PLACEMENT AND SHELVING HEIGHT/PLACEMENT.
- LIGHTING CONTROL AND SENSOR LAYOUTS ARE DONE ACCORDING TO CURRENT FLORIDA ENERGY CODE AND FEDERAL ENERGY GUIDELINES UNLESS SPECIFIED OTHERWISE.
- PROGRAMMING OF DIGITAL DEVICES SHALL BE VIA A REMOTE HANDHELD IR PROGRAMMER CONTROL. SWITCHES SHALL BE PROGRAMMED FOR MANUAL ON OPERATION EXCEPT FOR LOBBIES, CORRIDORS AND RESTROOMS WHICH SHALL BE AUTO ON.

1 E-106 ENLARGED CORE LIGHTING PLAN
SCALE: 3/32" = 1'-0"



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

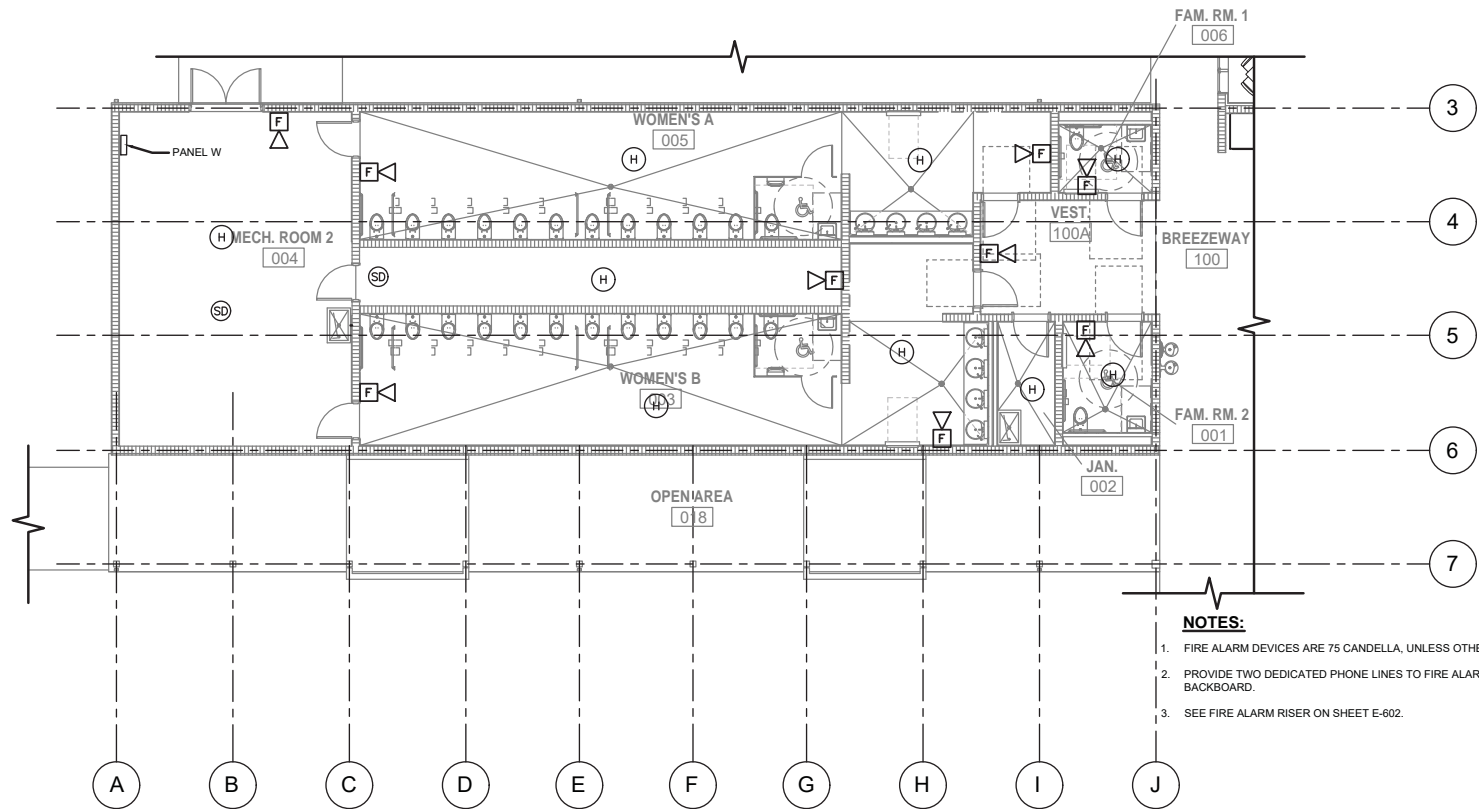
BOBES ASSOCIATES
CONSULTING ENGINEERS
180 CIRCLE DRIVE, WATLAND, FL 32791
TELEPHONE: 407.338.2868
FAX: 407.338.2868
P.E. BOBES JR., P.E., P.E. NUMBER 9131
900 BOBES JR., P.E., P.E. NUMBER 98410

Augusto E. Bobes Jr., P.E. No. 39410

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. E-106
E-106 ENLARGED CORE LIGHTING PLAN	SHEET NO.

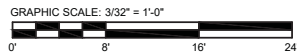
Y:\AutoCAD Files\Westbound\Gals-19 Rest Area - Column\ELECTRICAL\E-107 ENLARGED WOMEN'S ROOM SYSTEMS PLAN.dwg



NOTES:

1. FIRE ALARM DEVICES ARE 75 CANDELLA, UNLESS OTHERWISE NOTED.
2. PROVIDE TWO DEDICATED PHONE LINES TO FIRE ALARM FROM TELECOM. BACKBOARD.
3. SEE FIRE ALARM RISER ON SHEET E-602.

1 E-107 ENLARGED WOMEN'S ROOM SYSTEMS PLAN
SCALE: 3/32" = 1'-0"



PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. E-107
E-107 ENLARGED WOMEN'S ROOM SYSTEMS PLAN	SHEET NO.

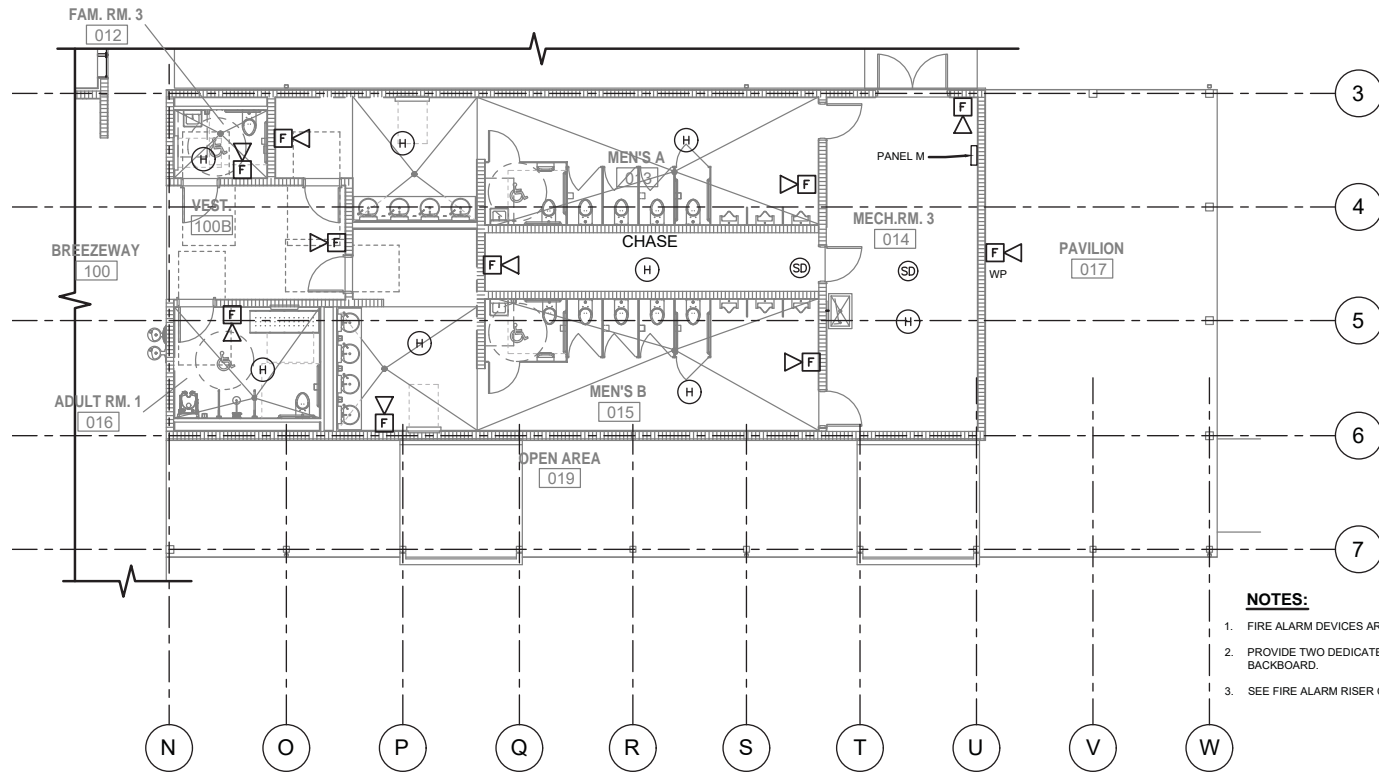
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BOBES ASSOCIATES
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180 CIRCLE DRIVE, WATLAND, FL 32791
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P.E. NUMBER: 39410

Augusto E. Bobes Jr., P.E. No. 39410

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

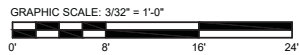
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NOTES:

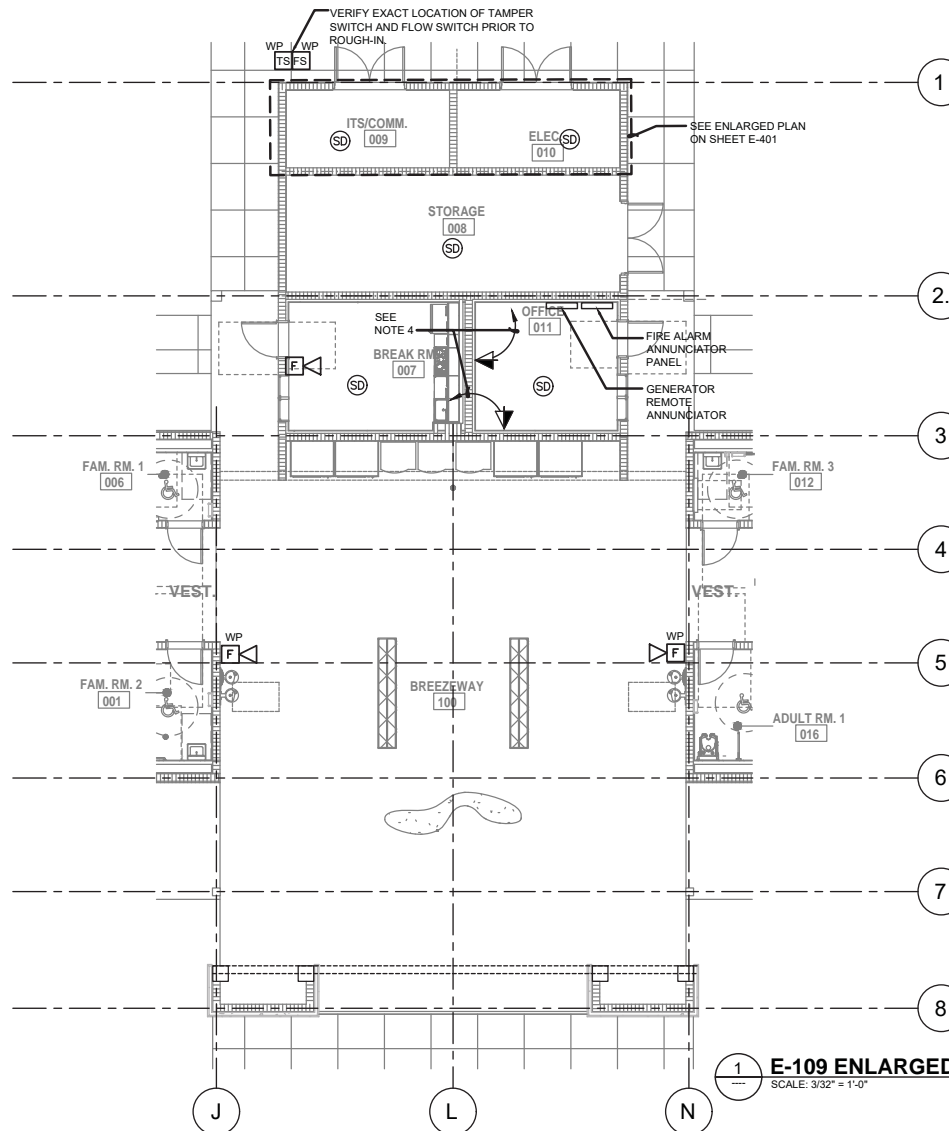
1. FIRE ALARM DEVICES ARE 75 CANDELLA, UNLESS OTHERWISE NOTED.
2. PROVIDE TWO DEDICATED PHONE LINES TO FIRE ALARM FROM TELECOM. BACKBOARD.
3. SEE FIRE ALARM RISER ON SHEET E-602.

1 E-108 ENLARGED MEN'S ROOM SYSTEMS PLAN
SCALE: 3/32" = 1'-0"



0' 8' 16' 24'						 PROJECT NORTH		100% CONSTRUCTION DOCUMENTS					
REVISIONS						 <div>BOBES ASSOCIATES COMMERCIAL DESIGN/CONSTRUCTION 180 CIRCLE DRIVE, WATLAND, FL 32791 TELEPHONE: 407.338.2266 FAX: 407.338.2267 FLORIDA STATE P.E. NUMBER: 91321 BOBES BOBES JR., P.E., P.E. NUMBER 08410</div>		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
DATE		BY		DESCRIPTION								E-108	
DATE		BY		DESCRIPTION						E-108 ENLARGED MEN'S ROOM SYSTEMS PLAN		SHEET NO.	

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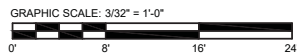


NOTES:

1. FIRE ALARM DEVICES ARE 75 CANDELLA, UNLESS OTHERWISE NOTED.
2. PROVIDE TWO DEDICATED PHONE LINES TO FIRE ALARM FROM TELECOM. BACKBOARD.
3. SEE RISER ON SHEET E-602.
4. 3/4" E.C. WITH PULL WIRE TO ITS/COMM. ROOM. PROVIDE PLASTIC BUSHING AT END OF CONDUIT.
5. DATA/VOICE SYSTEM IS AN EMPTY CONDUIT AND THAT IS RESPONSIBLE TO HIRE LOW VOLTAGE CONTRACTOR FOR INSTALLING A COMPLETE DATA/VOICE SYSTEM.

E-109 ENLARGED CORE SYSTEMS PLAN

SCALE: 3/32" = 1'-0"



PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. E-109
E-109 ENLARGED CORE SYSTEMS PLAN	SHEET NO.

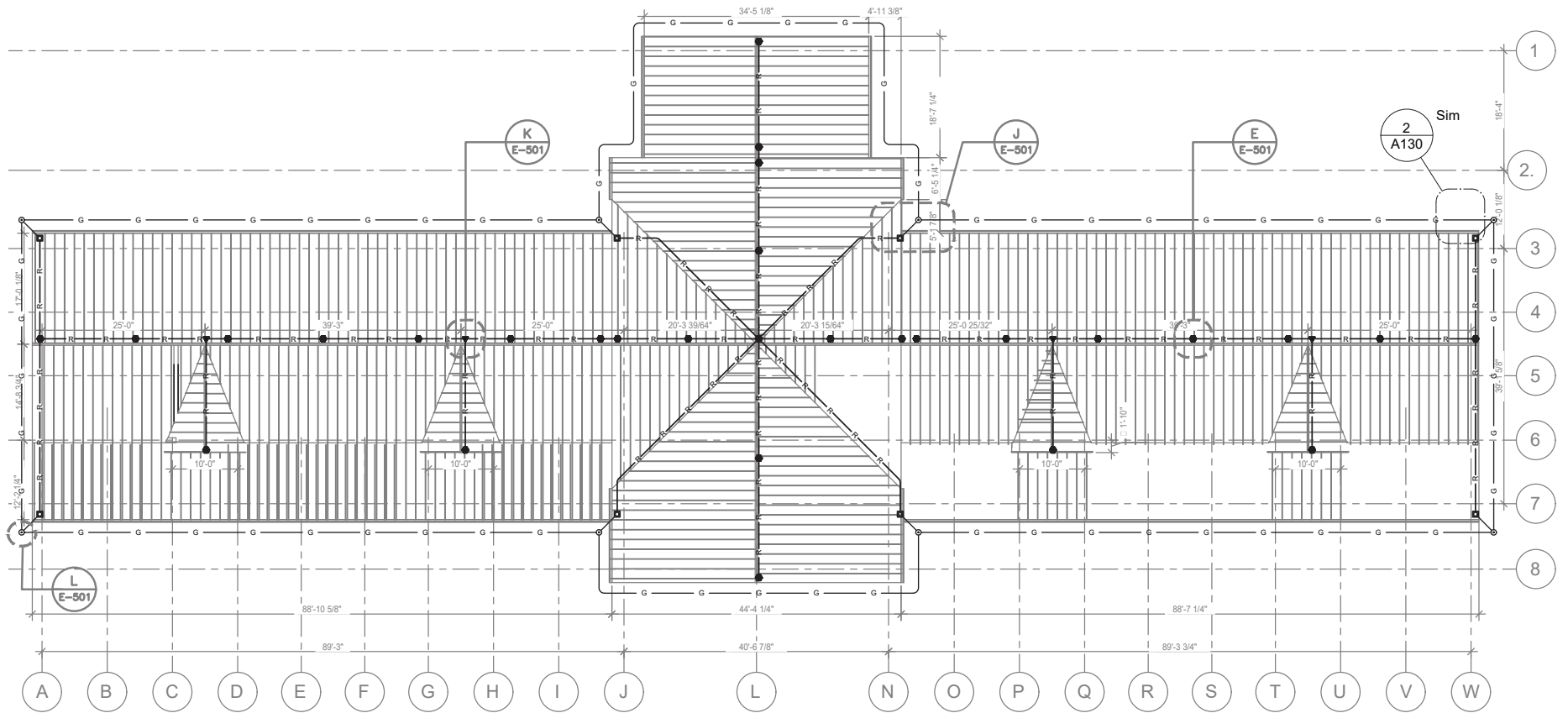
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

Y:\AutoCAD Files\Architect\Gals-19 Rest Area - Columbia\ELECTRICAL\E-110 LIGHTNING PROTECTION ROOF PLAN.dwg



GENERAL NOTES:

1. LIGHTNING PROTECTION CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NFPA 780 CLASS 1 MATERIAL REQUIREMENTS.
2. BOND LIGHTNING PROTECTION SYSTEM TO MAIN GROUNDING ELECTRODE SYSTEM WITH #3/0 COPPER MINIMUM.
3. REFER TO LIGHTNING PROTECTION DETAILS ON E-501.
4. DOWN CONDUCTORS SHALL BE CONCEALED IN ALL NEW CONSTRUCTION.
5. BOND ALL METAL FENCE SECTIONS TO LIGHTNING PROTECTION SYSTEM WITH #3/0 COPPER.
6. TYPICAL LIGHTNING PROTECTION PLAN E-110 IS APPLICABLE TO SUWANNEE AND COLUMBIA REST AREA BUILDING, U.O.N.
7. OBTAIN U.L. MASTER LABEL FOR LIGHTNING PROTECTION SYSTEM.

1 E-110 LIGHTNING PROTECTION ROOF PLAN
SCALE: 1/16" = 1'-0"

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



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

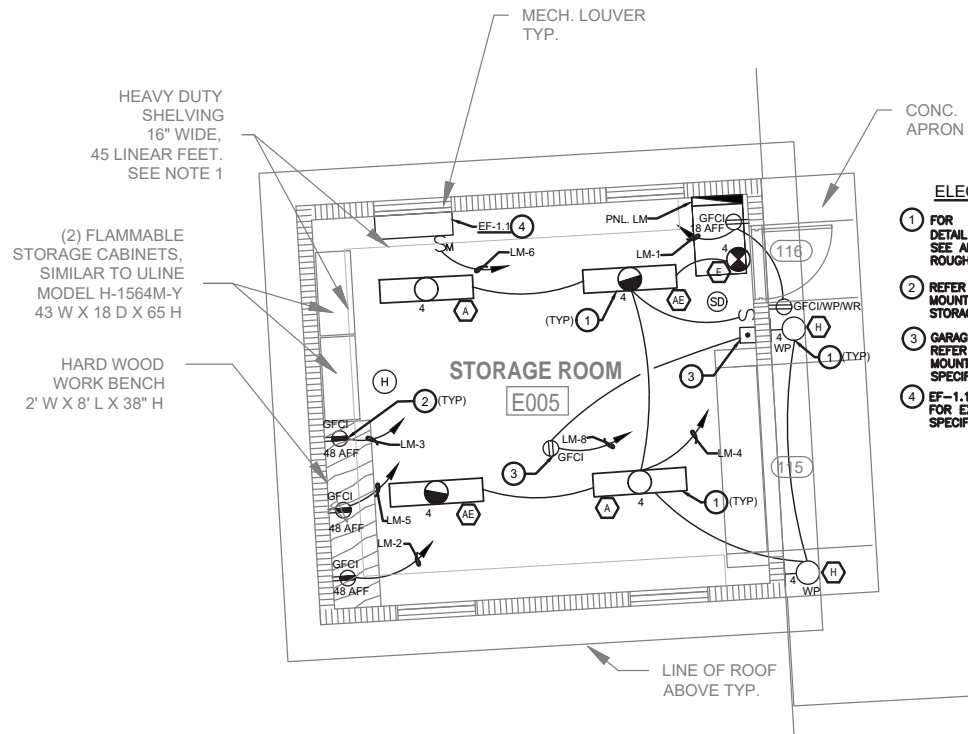
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

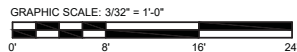
PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. E-110
E-110 LIGHTNING PROTECTION ROOF PLAN	SHEET NO.

Y:\AutoCAD Files\Architect\Gals-19 Rest Area - Column\ELECTRICAL\E-111 ENLARGED STORAGE BUILDING ELECTRICAL PLAN.dwg




NOTE 1: SHELVING UNITS START AT 38" AFF AT ALL SHELVING PERIMETER, EXCEPT ABOVE THE WORK BENCH, WHERE THE SHELVING UNIT STARTS AT 66" AFF. THE TOP HEIGHT OF THE SHELVING IS 7'-0" AFF.

E-111 ENLARGED STORAGE BUILDING ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"



PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO. E-111	
E-111 ENLARGED STORAGE BUILDING ELECTRICAL PLAN		SHEET NO. XX	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

NEW 4' x 8' x 3/4" BACKBOARD, CONDUIT STUB-UP UNDER BACKBOARD FROM TELECOM CONNECTION POINT AND PROVIDE NEW 50 PAIR 110 WIRING BLOCK AND SPD'S FOR VOICE CABLING. PROVIDE (4) PAY PHONE LINES, (4) — PRIVATE PHONES LINES, (2) FIRE ALARM PHONE LINES, AND (1) EMERGENCY CALL BOX PHONE LINES.

-
- SEE ELECTRICAL RISER DIAGRAM SHEET E-601
- UTILITY POWER EPOS
- GENERATOR POWER EPOS
- (TYP) 1
- 2
- 3 GROUND BUS BAR
- ITS/COMM. 009
- C-48
- C-18
- C-50
- C-20
- PNL "C"
- PNL "B"
- 3 GROUND BUS BAR
- ELEC. 010
- PNL C-32 "FACP"
- "MDP"
- "ATS"
- "MCB"

E-401 ENLARGED ELECTRICAL ROOM POWER PLAN
SCALE: 1/4" = 1'-0"

										 PROJECT NORTH		100% CONSTRUCTION DOCUMENTS			
REVISIONS						 <div>BOBES ASSOCIATES ARCHITECTS/CORPORATE DESIGN 158 GIGLE DRIVE, MARIETTA, FL 32901 TELEPHONE: 407.880.0000 E-MAIL: INFO@BOBES.COM FLORIDA STATE P.E. NUMBER: S131 GUS BOBES JR., P.E., F.P.E. NUMBER 39410</div>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA			DRAWING NO. E-401		
DATE	BY	DESCRIPTION			DATE		BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	E-401 ENLARGED ELECTRICAL ROOM POWER PLAN	SHEET NO.
											SR 8	COLUMBIA	438609-1-52-01		
						Augusto E. Bobes Jr., P.E. No. 39410									



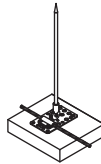
A
E-501

**AIR TERMINAL
DETAIL**



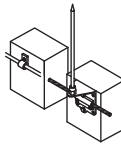
B
E-501

**TYPICAL ADHESIVE
CABLE HOLDER**



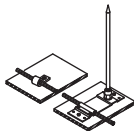
C
E-501

**TYPICAL ADHESIVE
BASE AIR TERMINAL**



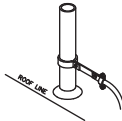
D
E-501

**TYPICAL OFFSET
BASE AIR TERMINAL**



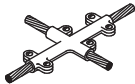
E
E-501

**TYPICAL ROOF
EQUIPMENT AIR TERMINAL**



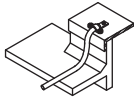
F
E-501

**TYPICAL
V.T.R. BOND**



G
E-501

**TYPICAL FOUR
WAY CABLE SPLICER**



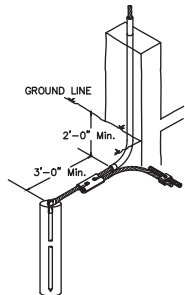
H
E-501

**TYPICAL ROOF
HATCH BOND**



I
E-501

**TYPICAL
BONDING PLATE**



J
E-501

**TYPICAL CONCEALED DOWNLEAD,
REBAR BOND AND GROUND**



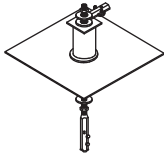
K
E-501

**TYPICAL
CABLE SPLICERS**



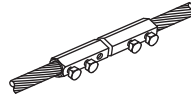
L
E-501

**GROUND ROD
CADWELD CONNECTION**



M
E-501

**TYPICAL ROOF
AIR TERMINAL**



N
E-501

**TYPICAL
HALF & HALF CLAMP**

Y:\AutoCAD Files\Architect\Gains-10 Rest Area - Columbia\ELECTRICAL\E-501 LIGHTNING PROTECTION DETAILS.dwg

PROJECT NORTH 100% CONSTRUCTION DOCUMENTS

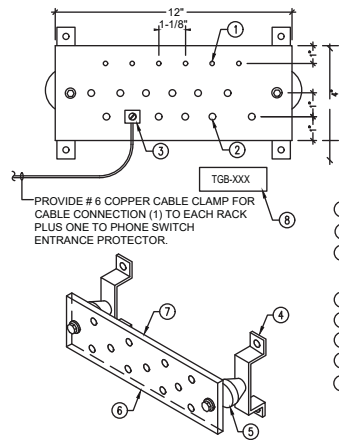
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA E-501

E-501 LIGHTNING PROTECTION DETAILS SHEET NO.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

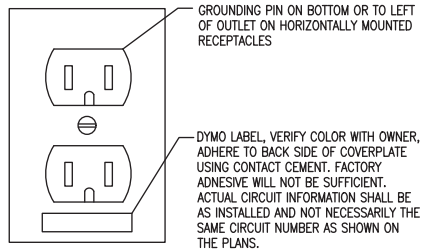
BOBES ASSOCIATES
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01



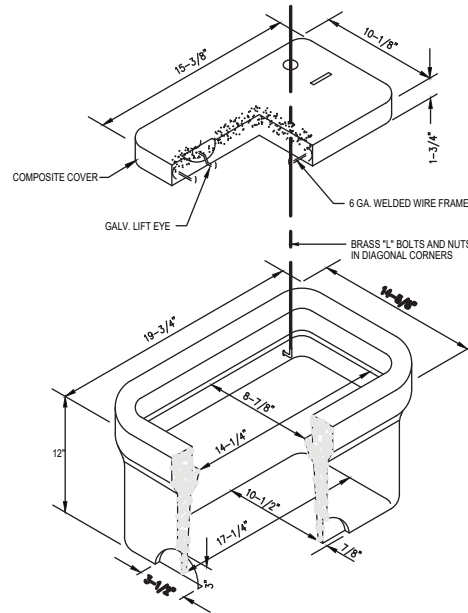
- GENERAL**
1. ALL HARDWARE (BOLTS, NUTS, WASHERS, ETC.) SHALL BE SOLID COPPER OR BRONZE. COPPER PLATING SHALL NOT BE ACCEPTABLE.
 2. BUSBAR SHALL BE 1/4" THICK (MINIMUM).
 3. INCREASE LENGTH OF BUSBAR, FOR NUMBER OF CONNECTIONS, AS REQUIRED TO MAINTAIN CORRECT SPACING BETWEEN LUGS.
- NOTE**
- ① #6/32 (TYPICAL)
 - ② #9/32 (TYPICAL)
 - ③ PROVIDE COPPER CABLE CLAMPS FOR CABLE CONNECTIONS (BY ELECTRICAL CONTRACTOR).
 - ④ STANDOFF BRACKET
 - ⑤ INSULATOR
 - ⑥ CADWELD TYPE S44A018
 - ⑦ COPPER BUSBAR
 - ⑧ PROVIDE WHITE CORE BAKELITE NAMEPLATE FASTENED TO A WALL SURFACE BELOW BUSBAR AT EACH FLOOR, WITH DESIGNATION ENGRAVED THEREON IN 1/2" HIGH LETTERS.
- NOTE: BOND ALL GROUND PER NEC ART. 250**

**TYPICAL GROUND
BUS BAR DETAIL**
A
E-502 N.T.S.

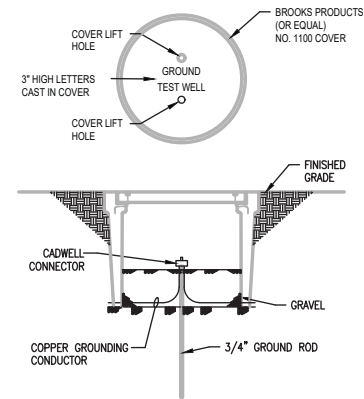


- NOTES:**
1. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE CIRCUITS. CONNECT TO GROUND BUS IN PANEL.
 2. DO NOT INSTALL RECEPTACLES, COMPUTER OR TELEPHONE OUTLETS BACK TO BACK. INSTALL IN ADJACENT STUD CAVITIES, TO REDUCE SOUND TRANSMISSION.

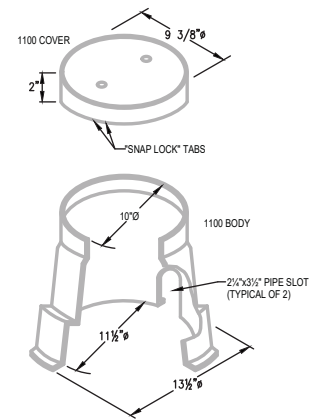
**TYPICAL RECEPTACLE
IDENTIFICATION DETAIL**
D
E-502 N.T.S.





COMPOSITE PULLBOX DETAIL
B
E-502 N.T.S.



**GROUND TEXT
WELL DETAIL**
C
E-502 N.T.S.



E-502		N.T.S.				 PROJECT NORTH		100% CONSTRUCTION DOCUMENTS		
REVISIONS						 <div>BOBES ASSOCIATES CONSULTING ENGINEERS 1501 CIRCLE DRIVE, MAITLAND, FL 32751 TEL: (407) 826-0005 F: (407) 826-0000 FLORIDA STATE P.E. NUMBER: 51351 GEO BOBES JR. P.E., P.E. NUMBER 39410</div>		SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ELECTRICAL DETAILS		E-502
						ROAD NO.		COUNTY	FINANCIAL PROJECT ID	SHEET NO.
						SR 8		COLUMBIA	438609-1-52-01	

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Augusto E. Bobes Jr., P.E. No. 39410

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

PROJECT NORTH

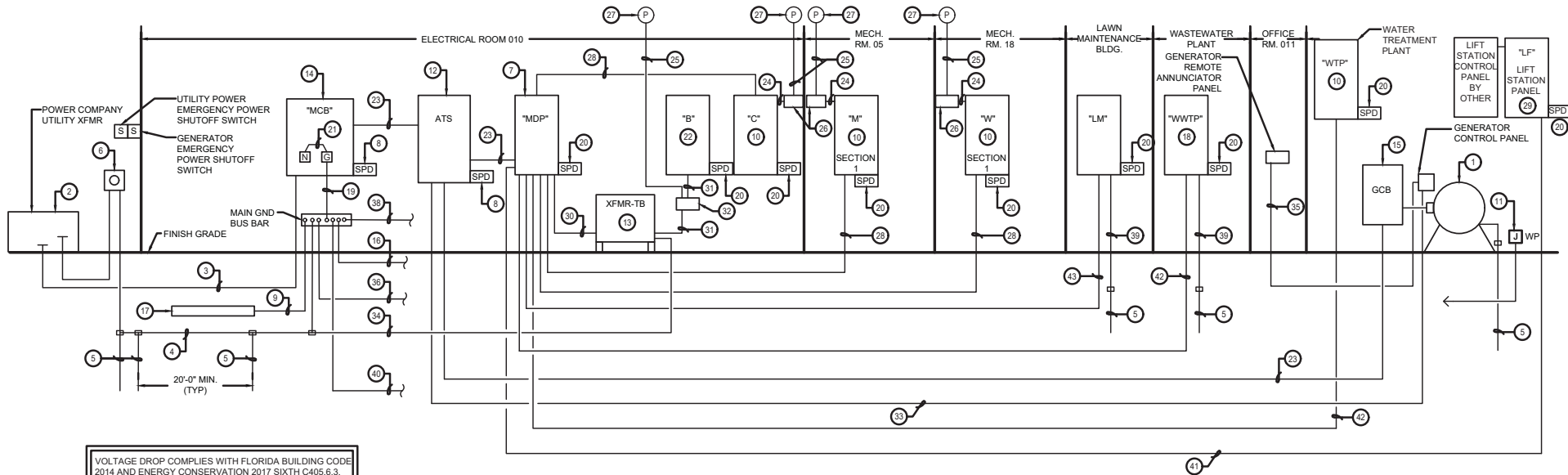
100% CONSTRUCTION DOCUMENTS

SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA

ELECTRICAL DETAILS

DRAWING NO. E-502

SHEET NO.



VOLTAGE DROP COMPLIES WITH FLORIDA BUILDING CODE 2014 AND ENERGY CONSERVATION 2017 SIXTH C405.6.3. ALL MAIN FEEDERS HAVE BEEN SIZED FOR A MAXIMUM OF 2% VOLTAGE DROP AND ALL BRANCH CIRCUIT FEEDERS HAVE BEEN SIZED FOR A MAXIMUM OF 3% VOLTAGE DROP PER FBC-SIXTH EDITION.

E-601 ELECTRICAL RISER DIAGRAM
N.T.S.

RISER NOTES:

- 1 PROVIDE 360 KW / 450 VA, 0.8 POWER FACTOR STANDBY GENERATOR SET, 208/120V, 3Ø, 4W WITH WEATHERPROOF ENCLOSURE AND SKID BASE FUEL TANK.
- 2 500 KVA PAD MOUNTED, UTILITY TRANSFORMER, 208/120V, 3Ø, 4W, 60 HZ SECONDARY. CT LOCATED ON SECONDARY SIDE OF UTILITY TRANSFORMER. COORDINATE REQUIREMENTS WITH LOCAL POWER COMPANY. REFER TO SITE PLAN FOR ADDITIONAL DETAILS.
- 3 SECONDARY CONDUIT AND CONDUCTORS PARALLEL RUNS OF (3) 600 KCMIL COPPER, IN 4" CONDUIT. EACH
- 4 3/0 BARE, STRANDED COPPER, GROUNDING ELECTRODE CONDUCTOR.
- 5 20' LONG x 3/4" DIAMETER COPPER CLAD STEEL SECTIONAL GROUND ROD. PROVIDE GROUND TEST WELL AT EACH GROUND ROD.
- 6 WALL MOUNTED METER SOCKET, GROUNDING PER POWER CO. REQUIREMENTS, FURNISHED & INSTALLED BY CONTRACTOR. CONTRACTOR SHALL COORDINATE AND PROVIDE A UTILITY COMPANY APPROVED METER SOCKET. PROVIDE 1 1/2" CONDUIT FROM METER TO TRANSFORMER FOR CT CONDUCTORS. METER TO BE PROVIDED BY UTILITY COMPANY.
- 7 PANELBOARD "MDP" 3 POLE, 1200A. MLO, 208/120V, 3Ø, 4W.
- 8 PROVIDE TYPE 1 PRIMARY SERVICE ENTRANCE SPD WITH INTEGRAL DISCONNECTING MEANS. PROVIDE #6 AWG LEADS IN 3/4" CONDUIT, NIPPLE.
- 9 GROUNDING ELECTRODE CONDUCTOR 3/0 BARE, STRANDED COPPER 36" MIN. BELOW GRADE.
- 10 PANELBOARD, 208/120V, 3Ø, 4W. REFER TO PANELBOARD SCHEDULE.
- 11 ENGINE JACKET HEATER AND BATTERY CHARGER, EXTEND (4) #10, 1#10 GND. IN 1" C. TO PANEL "M".
- 12 AUTOMATIC TRANSFER SWITCH, 3 POLE, 1200A, 250 VOLT, WITH SOLID NEUTRAL IN NEMA TYPE 1 ENCLOSURE.
- 13 DRY TYPE STEP-UP XFMR, 15 KVA, 208/120 VOLT, DELTA PRIMARY TO 480/277 VOLT WYE SECONDARY.
- 14 MAIN SERVICE DISCONNECT 1200A, 208V, 3 POLE, SOLID NEUTRAL CIRCUIT BREAKER, WITH SHUNT TRIP COIL. PROVIDE NAMEPLATE "GENERATOR MAIN DISCONNECT IS LOCATED INSIDE GENERATOR ENCLOSURE" MUST BE LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
- 15 GENERATOR CIRCUIT BREAKER "GCB" 1200A, 3 POLE, 208V, SOLID NEUTRAL, GROUND BUS IN NEMA 3R ENCLOSURE.
- 16 3/0 BARE STRANDED COPPER GROUNDING CONDUCTOR BETWEEN GROUND ROD AND LIGHTNING PROTECTION SYSTEM. INSTALL CONDUCTOR IN 1" SCH. 80 PVC C. WHERE EXPOSED. CONNECTION SHALL BE IRREVERSIBLE COMPRESSION TYPE.
- 17 BOND A 3/0 BARE CU CONDUCTOR TO REBAR IN THE BUILDING FOOTER TO ACT AS A CONCRETE ENCASED ELECTRODE IN ACCORDANCE WITH NEC ARTICLE 250.
- 18 PANEL FOR WASTEWATER PLANT IS REQUIRED. PROVIDE 150. MCB, 120/208V, 3Ø, 4W, NEMA 3R PANELBOARD WITH 42 SPACES. COORDINATE BRANCH CIRCUIT BREAKER REQUIREMENTS WITH WASTE WATER DESIGN DRAWINGS SUBMITTED SEPARATELY. MOUNT PANELBOARD TO 4"x4"x10" CONCRETE POST, BURIED 3'-0" INTO GROUND.
- 19 GROUNDING CONDUCTOR FROM CIRCUIT BREAKER "MCB" GROUND BUS TO MAIN GND. BUS BAR, #3/0 BARE STRANDED COPPER.
- 20 PROVIDE TYPE 2 SECONDARY SERVICE SPD.
- 21 MAIN BONDING JUMPER #3/0 BARE STRANDED COPPER.
- 22 PANELBOARD 480/277V, 3Ø, 4W. REFER TO PANELBOARD SCHEDULE FOR ROADWAY LIGHTING CIRCUITS BY OTHERS.
- 23 (3) PARALLEL RUNS OF 4#600KCMIL, #3/0G IN 4" CONDUITS.
- 24 LIGHTING CIRCUIT(S) AND CONTACTOR CIRCUIT FROM PANEL TO LIGHTING CONTACTOR PER DETAIL E-603.
- 25 PHOTOCELL CIRCUIT, THRU ROOF CONDUIT, REFER TO DETAIL E-603 FOR CIRCUIT.
- 26 LIGHTING CONTACTOR CABINET IN NEMA 1 ENCLOSURE WITH HINGED COVER, UL 50 LABELED. CABINET SHALL BE SIZED TO HOUSE CONTACTORS INDICATED IN DETAIL E-603.
- 27 120 VOLT PHOTOCELL MOUNTED ON 3/4" GALVANIZED RIGID STEEL CONDUIT 6" ABOVE ROOF.
- 28 4 # 4/0, 1#4G, 2-1/2" C.
- 29 LIFT STATION.
- 30 (3) #6 CU, (1) #10 CU GND. IN 1" FLEXIBLE CONDUIT (TRANSFORMER PRIMARY).
- 31 (4) #10 CU, (1) #10 CU GND. IN 3/4" FLEXIBLE CONDUIT (TRANSFORMER SECONDARY).
- 32 ROUTE FEEDER THROUGH 30 AMP, 3 POLE CONTACTOR LOCATED IN NEMA 1 ENCLOSURE. CONTACTOR TO CONTROL PANEL "B"
- 33 (1) 1-1/4" CONDUIT FROM GENERATOR TO ATS FOR CONTROLS. PROVIDE CONTROL CABLES PER MANUFACTURER'S REQUIREMENTS.
- 34 #8 COPPER, BOND IN TRANSFORMER CONNECTED TO GROUNDING CONDUCTOR.
- 35 1 1/4" CONDUIT WITH CABLES PER MANUFACTURER'S REQUIREMENTS EXTENDED FROM GENERATOR TO GENERATOR REMOTE ANNUNCIATOR PANEL LOCATED IN SECURITY OFFICE ROOM 011, REFER TO E-109
- 36 EXTEND #6 COPPER GROUND CONDUCTOR TO TELEPHONE TERMINAL BOARD.
- 37 PROVIDE ARC-FAULT HAZARD WARNING LABEL ON ALL EQUIPMENT AS PER NEC 110.16.
- 38 #3/0 BARE STRANDED COPPER GROUNDING CONDUCTOR BETWEEN GROUND BAR AND COLD WATER PIPE WITHIN 5 FEET OF ENTERING BUILDING.
- 39 #2/0 BARE, STRANDED COPPER, GROUNDING CONDUCTOR TERMINATED ON GROUND BAR IN PANEL. DO NOT MAKE NEUTRAL GROUND BOND. EXTEND #2/0 BARE CU CONDUCTOR UNBROKEN FROM GROUND ROD TO COLD WATER PIPE WITHIN 5' OF ENTERING BUILDING AND CONTINUE UNBROKEN CONDUCTOR TO GROUNDING/LIGHTNING PROTECTION SYSTEM.
- 40 #2/0 COPPER GROUND TO TELECOMM MAIN GROUND BUS BAR (TMGB).
- 41 4 # 3/0, 1#6G, 3" CONDUIT.
- 42 4 # 3/0, 1#6G, 3" CONDUIT.
- 43 4 # 3, 1#6G, 2" CONDUIT.

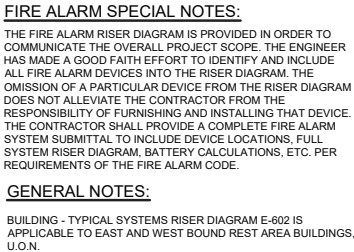
PROJECT NORTH		100% CONSTRUCTION DOCUMENTS	
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
E-601 ELECTRICAL RISER DIAGRAM		E-601	
		SHEET NO.	

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01



BUILDING - TYPICAL SYSTEMS RISER DIAGRAM E-602 IS APPLICABLE TO EAST AND WEST BOUND REST AREA BUILDINGS, U.O.N.

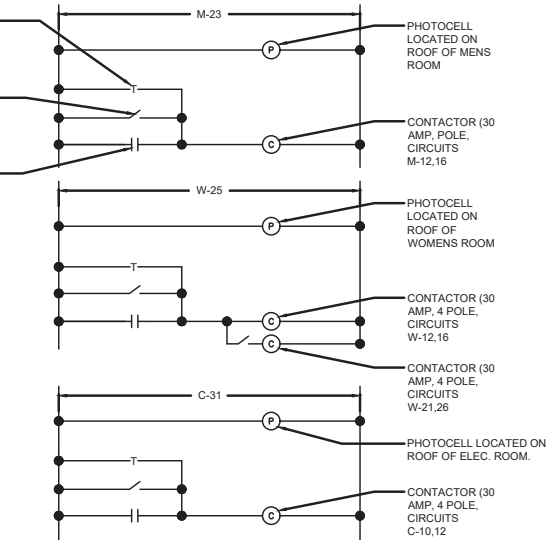
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Y:\AutoCAD Files\Work\Gals-10 Rest Area - Columbia\ELECTRICAL\E-603 LIGHTING FIXTURE SCHEDULE AND DIAGRAMS.dwg

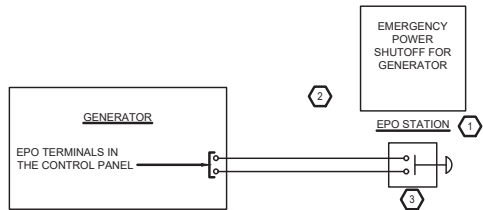
SECURITY OVERRIDE TIMER SWITCH, SINGLE POLE 20 AMP. PUSHBUTTON LOCATED IN OFFICE. (TYP.) REFER TO SHEET E-106, REFERENCE NOTE 5.

MAINTENANCE OVERRIDE SWITCH, SINGLE POLE 20 AMP. TOGGLE LOCATED ADJACENT TO CONTACTOR CABINET. (TYP.)

PHOTOCELL CONTACT (TYP.)



2 PHOTOCELL/CONTACTOR WIRING DIAGRAM
E-604 N.T.S.



1 SHUNT TRIP BUTTON WIRING DIAGRAM
E-604 N.T.S.

REFERENCE NOTES:

- EPO STATION MOUNTED 8 FT. ABOVE GRADE ON THE OUTSIDE WALL. EPO, 30mm NON-ILLUMINATED, TURN-TO-RELEASE, MUSHROOM PUSH BUTTON OPERATOR (COLOR RED), TRIGGER ACTION, WITH ONE FORM C CONTACT. CLASS 9001, CORROSION RESISTANT, UL TYPE AND NEMA 4 RATED. INSTALLED WITH UL TYPE 4, NEMA 4 RATED, GUARDED ENCLOSURE (COLOR GRAY), TO PROTECT AGAINST INADVERTENT OPERATION OF MUSHROOM PUSH BUTTON. ENCLOSURE MATERIAL TO BE DIE CAST ZINC.

MUSHROOM PUSH BUTTON (SQ-D CAT #9001SKR9RH13), WITH ONE N.O./ONE N.C. CONTACT (SQ-D CAT #KA1), GUARDED ENCLOSURE (SQ-D CAT #9001KYG1) OR EQUAL.

WHEN THE MUSHROOM PUSH BUTTON IS DEPRESSED, TO THE "OFF" POSITION, THE GENERATOR WILL SHUT DOWN IF IT IS RUNNING. ENSURE THE GENERATOR WILL NOT START UNTIL THE EPO SWITCH IS RETURNED TO THE "ON" POSITION, TWIST-TO-RELEASE, AND THE SHUTDOWN ALARMS ARE CLEARED FROM THE OPERATOR CONTROL PANEL.
- INSTALL A 10" x 10" ALUMINUM SIGN WITH RED FIELD AND 1/2" HIGH LETTERS DIRECTLY ABOVE THE EPO STATION.
- PROVIDE 120 VOLT CIRCUIT FROM PANEL "C" CIRCUIT 33.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMPS	MANUFACTURER & CATALOG NO.	REMARKS
A	4' LED STRIP	SURFACE	35W-LED 80-CRI,3500K	COLUMBIA - HUBBELL LIGHTING MP54-35LW-CW-EUCM48SCF4-KIT	(5' Suspension Cable As required)
AE	4' LED STRIP	SURFACE	35W-LED 80-CRI,3500K	COLUMBIA - HUBBELL LIGHTING MP54-35LW-CW-EU-ELL14/CM48SCF4-KIT	(5' Suspension Cable As required)
B	2' x 4' LED TROFFER	RECESSED	39W-LED 80-CRI,3500K	COLUMBIA - HUBBELL LIGHTING LCAT-35MLG-EDU / FK24	(Flange Kit As Required For Drywall Hard Collings)
BE	2' x 4' LED TROFFER	RECESSED	44W-LED 80-CRI,3500K	COLUMBIA - HUBBELL LIGHTING LCAT-35MLG-EDU-ELL14 / FK24	(Flange Kit As Required For Drywall Hard Collings)
C	4' RD-DOWNLIGHT	RECESSED	22W-LED 80-CRI,3500K	PRESCOLITE - HUBBELL LIGHTING LTR-4RDH-ML20L-DM1120-277V / LTR-4RD-T-ML35K8WDSS	-
CE	4' RD-DOWNLIGHT	RECESSED	22W-LED 80-CRI,3500K	PRESCOLITE - HUBBELL LIGHTING LTR-4RDH-ML20L-DM1120-277VEM / LTR-4RD-T-ML35K8WDSSEM	-
D	RECESSED LINEAR	RECESSED	8WFT-LED 80-CRI,4000K	PROUDENTIAL - HUBBELL LIGHTING BPRO4-REC-FLSH-LEDA-SO-8'- TMM-SC-UNV-X3-DM01/ETS-DR	-
D1	RECESSED LINEAR	RECESSED	8WFT-LED 80-CRI,4000K	PROUDENTIAL - HUBBELL LIGHTING BPRO4-REC-FLSH-LEDA-SO-24'- TMM-SC-UNV-X3-DM01/ETS-DR	-
E	EXIT LIGHT WITH BATTERY PACK	UNIVERSAL	2W-LED	DUAL LITE - HUBBELL LIGHTING #EVE-URWEI	-
F	EXIT / EMERGENCY LIGHT COMBO	UNIVERSAL	2W-LED	DUAL LITE - HUBBELL LIGHTING EVCURW-D-I	-
G	4' RD-EXTERIOR DOWNLIGHT	RECESSED	22W-LED 80-CRI,3500K	PRESCOLITE - HUBBELL LIGHTING LTR-4RDH-ML20L-DM1120-277V/LTR- 4RD-T-ML35K8WDSS	WET LOCATIONS
GE	4' RD- EXTERIOR DOWNLIGHT	RECESSED	22W-LED 80-CRI,3500K	PRESCOLITE - HUBBELL LIGHTING LTR-4RDH-ML20L-DM1120-277V/LTR- 4RD-T-ML35K8WDSS	-
H	WALL PACK	SURFACE	30W-LED 80-CRI,4000K	HUBBELL LIGHTING LNC2-12L-4K-070-3-U-DBT	WET LOCATIONS
K	PENDANT MOUNT 6" CYLINDER	PENDANT	23W-LED 80-CRI,4000K	PRESCOLITE - HUBBELL LIGHTING LCALED-P-18L-40K-8-WF45-BL	SEE ARCHITECT DRAWINGS FOR EXACT LOCATION AND MOUNTING DETAILS. CONFIRM STEM LENGTH.
KE	PENDANT MOUNT 6" CYLINDER	PENDANT	23W-LED 80-CRI,4000K	PRESCOLITE - HUBBELL LIGHTING LCALED-P-18L-40K-8-WF45-BL. PROVIDE REMOTE INVERTER.	SEE ARCHITECT DRAWINGS FOR EXACT LOCATION AND MOUNTING DETAILS. CONFIRM STEM LENGTH.

PROJECT NORTH	100% CONSTRUCTION DOCUMENTS
SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA	DRAWING NO. E-603
E-603 LIGHTING FIXTURE SCHEDULE AND DIAGRAMS	SHEET NO.

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

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PANEL LOCATION: MECHANICAL RM 014				PANEL DESIGNATION: M				VOLTAGE: 120/208V, 3PH-4W				AIC RATING: 43KA			
PANEL FED FROM: MFD				PANELBOARD RATING: 225AMP				MANUFACTURER: SQUARE D				MOUNTING: SURFACE			
				MAINS: 225A, MLO				STYLE: HQ				NEMA TYPE: NEMA-1			
LOAD TYPE	LOAD DESCRIPTION	KVA PER PHASE			BKR	POLE	OKT	OKT	POLE	BKR	KVA PER PHASE			LOAD DESCRIPTION	LOAD TYPE
		PH A	PH B	PH C							PH A	PH B	PH C		
M	HAND DRYER M-A	1.8			20	1	1	2	1	20	1.8			HAND DRYER M-B	M
M	HAND DRYER M-A		1.8		20	1	3	4	1	20		1.8		HAND DRYER M-B	M
M	HAND DRYER M-A			1.8	20	1	5	6	1	20			1.8	HAND DRYER M-B	M
M	HAND DRYER M-A	1.8			20	1	7	8	1	20	1.8			HAND DRYER ADULT RM	M
M	FLUSH VALVE		0.4		20	1	9	10	1	20		1		EWG NOSE #1	M
M	FLUSH VALVE			0.4	20	1	11	12	1	20			0.5	MEN'S B LIGHTING	L
R	RECEP TACLES GFCI	0.36			20	1	13	14	1	20	0.6			NECH BABY TOLT LITG	L
R	RECEP TACLES GFCI		0.36		20	1	15	16	1	20		0.6		MEN'S A LIGHTING	L
R	RECEP TACLES EXT TOILET			0.72	20	1	17	18	1	20			0.3	MEN'S PORCH LIGHTING	L
R	RECEP TACLES EXT TOILET	0.72			20	1	19	20	2	20	0.6			EWB-1.1	W
L	EMERGENCY LIGHTING		0.3		20	1	21	22	-	-		0.6			W
M	PHOTOCELL CONT			0.4	20	1	23	24	2	30			1.25	EWB-1.2	W
L	VEST LIGHTING	0.1			20	1	25	26	-	-	1.25				W
M	FAUCET VALVES		0.4		20	1	27	28	2	40		1		EWB-1.3	W
M	FAUCET VALVES			0.4	20	1	29	30	-	-			4.16		W
M	CU-2.1	4.19			50	3	31	32	1	20	0.8			ADULT CHANGING TABLE	M
M			4.19		-	-	33	34	1	20				GEN BATTERY CHARGER	M
M				4.19	-	-	35	36	2	20				GEN WATER HEATER JACKET	M
M	AHU-2.1 ROOM 014	4.7			60	3	37	38	-	-	1				M
M			4.7		-	-	39	40	1	20				SPARE	M
M				4.7	-	-	41	42	1	20				SPARE	M
M	FLUSH AND FAUCET VALVE	0.8			20	1	43	44	1	20				SPARE	M
M	FLUSH AND FAUCET VALVE		0.8		20	1	45	46	1	20				SPARE	M
	SPARE				20	1	47	48	1	20				SPARE	M
	SPARE				20	1	49	50	1	20				SPARE	M
	SPARE				20	1	51	52	1	20				SPARE	M
	SPARE				20	1	53	54	1	20				SPARE	M
	SPARE				20	1	55	56	1	20				SPARE	M
	SPARE				20	1	57	58	1	20				SPARE	M
	SPARE				20	1	59	60	1	20				SPARE	M
	SPARE						61	62						SPACE	
	SPARE						63	64						SPACE	
	SPARE						65	66						SPACE	
	SPARE						67	68						SPACE	
	SPARE						69	70						SPACE	
	SPARE						71	72						SPACE	
	SPARE						73	74						SPACE	
	SPARE						75	76						SPACE	
	SPARE						77	78						SPACE	
	SPARE						79	80	3	30				SPD	
	SPARE						81	82	-	-					
	SPARE						83	84	-	-					
PANELBOARD SUB-TOTALS		14.5	13.0	12.6							7.9	9.2	9.0	PANELBOARD SUB-TOTALS	
LOAD CALCULATIONS:		CONNECTED LOAD (KW)			DEMAND FACTOR			ESTIMATED DEMAND LOAD (KW)			NOTES:				
(L) LIGHTING		2.1			1.25			2.6			1. PROVIDE GFCI BREAKERS AS REQUIRED				
(R) RECEPTACLES (FIRST 10 KW)		2.2			1.00			2.2							
(R) RECEPTACLES (REMAINDER)		0.0			0.50			0.0							
(H) HVAC (WORST CASE)		0.0			1.00			0.0							
(W) WATER HEATING		12.0			1.00			12.0							
(K) KITCHEN		0.0			0.65			0.0							
(M) MISCELLANEOUS		49.5			1.00			49.5							
PANELBOARD TOTALS:		65.8 (153A)						66.3 (154A)							

PANEL LOCATION: ELECTRICAL ROOM 010				PANEL DESIGNATION: B				VOLTAGE: 277/480V, 3PH-4W				AIC RATING: 40KA			
PANEL FED FROM: XFMR "TB"				PANELBOARD RATING: 125				MANUFACTURER: SQUARE D				MOUNTING: SURFACE			
				MAINS: 20A, MCB				STYLE: NF				NEMA TYPE: NEMA-1			
LOAD TYPE	LOAD DESCRIPTION	KVA PER PHASE			BKR	POLE	OKT	CKT	POLE	BKR	KVA PER PHASE			LOAD DESCRIPTION	LOAD TYPE
		PH A	PH B	PH C							PH A	PH B	PH C		
							1	2							
							3	4							
							5	6							
							7	8							
							9	10							
							11	12							
							13	14							
							15	16							
							17	18							
							19	20							
							21	22							
							23	24							
							25	26							
							27	28							
							29	30							
							31	32							
							33	34							
							35	36							
							37	38	3	30			SFD		
							39	40	-	-					
							41	42	-	-					
PANELBOARD SUB-TOTALS		0.0	0.0	0.0							0.0	0.0	0.0	PANELBOARD SUB-TOTALS	
LOAD CALCULATIONS:		CONNECTED LOAD (KW)			DEMAND FACTOR			ESTIMATED DEMAND LOAD (KW)			NOTES:				
(L) LIGHTING		0.0			1.25			0.0			1. PROVIDE GFCI BREAKERS AS REQUIRED				
(R) RECEPTACLES (FIRST 10 KW)		0.0			1.00			0.0							
(R) RECEPTACLES (REMAINDER)		0.0			0.50			0.0							
(H) HVAC (WORST CASE)		0.0			1.00			0.0							
(W) WATER HEATING		0.0			1.00			0.0							
(K) KITCHEN		0.0			0.65			0.0							
(M) MISCELLANEOUS		0.0			1.00			0.0							
PANELBOARD TOTALS:		0.0 (0A)						0.0 (0A)							

PANEL LOCATION: ELECTRICAL ROOM 010				PANEL DESIGNATION: MDP				VOLTAGE: 120/208V, 3PH-4W				AIC RATING: 69KA			
PANEL FED FROM: POWER COMPANY XFMR				PANELBOARD RATING: 1200A				MANUFACTURER: SQUARE D				MOUNTING: SURFACE			
				MAINS: 1200A, MLO				STYLE: 1-LINE HCP PANEL				NEMA TYPE: NEMA-1			
LOAD TYPE	LOAD DESCRIPTION	KVA PER PHASE			BKR	POLE	OKT	OKT	POLE	BKR	KVA PER PHASE			LOAD DESCRIPTION	LOAD TYPE
		PH A	PH B	PH C							PH A	PH B	PH C		
M	PANEL M	16.8			225	3	1	2	3	50	5			XFMR "TB" FOR ROAD WAY LITG	L
M	-		16.8		-	-	3	4	-	-	5				L
M	-			16.8	-	-	5	6	-	-	5				L
M	PANEL W	16.8			225	3	7	8	3	150	12			PANEL WTP	M
M	-		16.8		-	-	9	10	-	-	12				M
M	-			16.8	-	-	11	12	-	-	12				M
M	PANEL C	17			225	3	13	14	3	200	11.1			PANEL LS - LIFT STATION	M
M	-		17		-	-	15	16	-	-	11.1				M
M	-			17	-	-	17	18	-	-	11.1				M
M	PANEL LM	9			500	3	19	20							M
M	-		9		-	-	21	22							M
M	-			9	-	-	23	24							M
M	PANEL WWTP	12			500	3	25	26							M
M	-		12		-	-	27	28							M
M	-			12	-	-	29	30							M
							31	32							
							33	34							
							35	36							
							37	38	3	30				SFO	
							39	40	-	-					
							41	42	-	-					
PANELBOARD SUB-TOTALS		71.6	71.6	71.6						28.1	28.1	28.1	PANELBOARD SUB-TOTALS		
LOAD CALCULATIONS:		CONNECTED LOAD (KW)			DEMAND FACTOR			ESTIMATED DEMAND LOAD (KW)			NOTES:				
(L) LIGHTING		15.0			1.25			16.8							
(R) RECEPTACLES (FIRST 10 KW)		0.0			1.00			0.0							
(P) RECEPTACLES (REMAINING)		0.0			0.50			0.0							
(H) HVAC (WORST CASE)		0.0			1.00			0.0							
(W) WATER HEATING		0.0			1.00			0.0							
(K) KITCHEN		0.0			0.65			0.0							
(M) MISCELLANEOUS		294.1			1.00			294.1							
PANELBOARD TOTALS:		299.1 (831A)						302.9 (840A)							

PANEL LOCATION: ELECTRICAL ROOM 910 PANEL FED FROM: MDP				PANEL DESIGNATION: C PANELBOARD RATING: 225AMP MINS: 250A, MLO				VOLTAGE: 120/208V, 3PH-4W MANUFACTURER: SQUARE D STYLE: NQ				AIC RATING: 40KA MOUNTING: SURFACE NEMA TYPE: NEMA-1			
LOAD TYPE	LOAD DESCRIPTION	KVA PER PHASE			BKR	POLE	OKT	OKT	POLE	BKR	KVA PER PHASE			LOAD DESCRIPTION	LOAD TYPE
		PHA	PHB	PHC							PHA	PHB	PHC		
M	VENDING MACHINE NOTE #1	1.5			20	1	1	2	1	20	1.5		VENDING MACHINE NOTE #1	M	
M	VENDING MACHINE NOTE #1		1.5		20	1	3	4	1	20		1.5	VENDING MACHINE NOTE #1	M	
M	VENDING MACHINE NOTE #1			1.5	20	1	5	6	1	20			VENDING MACHINE NOTE #1	M	
M	VENDING MACHINE NOTE #1	1.5			20	1	7	8	1	20	1.2		REFRIGERATOR NOTE #1	M	
L	DISPLAY BOARD		0.8		20	1	9	10	1	20		0.6	BREEZEWAY L.TG	L	
M	SMALL APP			1.5	20	1	11	12	1	20		0.6	BREEZEWAY L.TG	M	
M	SMALL APP	1.5			20	1	13	14	1	20	1.2		CENTER REAR LIGHTING	L	
R	RECEPTACLES BREEZEWAY		0.36		20	1	15	16	1	20		1.06	RECEPTACLES OFFICE	R	
M	HP-1.3			1.14	20	2	17	18	1	20		1.2	ITS COM. ROOM	R	
M	-	1.14			20	1	19	20	1	20	1.2		ITS COM. ROOM	M	
M	HP-1.4			1.14	20	2	21	22	1	20		1.06	RECEPTACLES ELECTRICAL STORAGE	R	
M	-			1.14	20	2	23	24	2	15		1.04	HP-1.6	M	
M	HP-1.5			1.14	20	2	25	26	2	15	1.04		HP-1.7	M	
M	-		1.14		20	2	27	28	2	15	1.04		HP-1.7	M	
L	EMERGENCY LIGHTING			0.4	20	1	29	30	-			1.04	PHOTOCELL LIGHT	M	
M	PHOTOCELL LIGHT				20	1	31	32	1	20	0.5		PHOTOCELL LIGHT	M	
M	POWER EPO	0.5	0.5		20	1	33	34	2	20		0.6	EW-1.1	M	
R	REFRIGERATOR			1.2	20	1	35	36	-			0.6	EW-1.1	R	
R	REFRIGERATOR				20	1	37	38	2	60	4		RANGE	M	
R	REFRIGERATOR	1.2	1.2		20	1	39	40	-		4		RANGE	R	
R	REFRIGERATOR			1.2	20	1	41	42	1	20			SPARE	M	
SPARE	SPARE				20	1	43	44	1	20	1.2		GARAGE HOOD	M	
SPARE	SPARE				20	1	45	46	1	20		1.4	MICROWAVE	M	
SPARE	SPARE				20	1	47	48	1	20		1.2	ITS COM. ROOM	R	
SPARE	SPARE				20	1	49	50	1	20	1.2		ITS COM. ROOM	R	
SPARE	SPARE				20	1	51	52	1	20			SPARE	M	
SPARE	SPARE				20	1	53	54	1	20			SPARE	M	
SPARE	SPARE				20	1	55	56	1	20			SPARE	M	
SPARE	SPARE				20	1	57	58	3	30			SPD	M	
SPARE	SPARE				20	1	59	60	-				SPARE	M	
SPARE	SPARE				20	1	61	62	-				SPARE	M	
PANELBOARD SUB-TOTALS		8.5	6.6	8.1						13.0	11.3	7.2	PANELBOARD SUB-TOTALS		
LOAD CALCULATIONS: CONNECTED LOAD (KW) DEMAND FACTOR ESTIMATED DEMAND LOAD (KW) NOTES:															
(L) LIGHTING		3.6			1.25			4.5			1. PROVIDE GFCI BREAKERS AS REQUIRED				
(R) RECEPTACLES (FIRST 10 KW)		10.0			1.00			10.0			2. PROVIDE CIRCUIT BREAKER WITH HANDLE LOCK				
(R) RECEPTACLES (REMAINDER)		2.1			0.50			1.1							
(H) HVAC (WORST CASE)		0.0			1.00			0.0							
(W) WATER HEATING		1.2			1.00			1.2							
(K) KITCHEN		0.0			0.65			0.0							
(M) MISCELLANEOUS		37.8			1.00			37.8							
PANELBOARD TOTALS		54.7 (120A)						54.6 (120A)							

PANEL LOCATION: WASTE WATER PLANT PANEL FED FROM: MDP				PANEL DESIGNATION: WW1P PANELBOARD RATING: 225A MINS: 225A, MLO				VOLTAGE: 120/208V, 3PH-4W MANUFACTURER: SQUARE D STYLE: NQ				AIC RATING: 40KA MOUNTING: SURFACE NEMA TYPE: NEMA-1			
LOAD TYPE	LOAD DESCRIPTION	KVA PER PHASE			POLE	OKT	OKT	POLE	BKR	KVA PER PHASE			LOAD DESCRIPTION	LOAD TYPE	
		PH A	PH B	PH C						PH A	PH B	PH C			
					20	1	1	2	1	20					
					20	1	3	4	1	20					
					20	1	5	6	1	20					
					20	1	7	8	1	20					
					20	1	9	10	1	20					
					20	1	11	12	1	20					
					20	1	13	14	1	20					
					20	1	15	16	1	20					
					20	1	17	18	1	20					
					20	1	19	20	1	20					
					20	1	21	22	1	20					
					20	1	23	24	1	20					
					20	1	25	26	1	20					
					20	1	27	28	1	20					
					20	1	29	30	1	20					
					20	1	31	32	1	20					
					20	1	33	34	1	20					
					20	1	35	36	1	20					
					20	1	37	38	3	30			SPD		
					20	1	39	40	-	-			-		
					20	1	41	42	-	-			-		
PANELBOARD SUB-TOTALS		0.0	0.0	0.0						0.0	0.0	0.0	PANELBOARD SUB-TOTALS		
LOAD CALCULATIONS:		CONNECTED LOAD (KW)			DEMAND FACTOR			ESTIMATED DEMAND LOAD (KW)			NOTES:				
(L) LIGHTING		0.0			1.25			0.0			1. PROVIDE GFCI BREAKERS AS REQUIRED.				
(R) RECEPTACLES (FIRST 10 KW)		0.0			1.00			0.0							
(R) RECEPTACLES (REMAINDER)		0.0			0.50			0.0							
(H) HVAC (WORST CASE)		0.0			1.00			0.0							
(W) WATER HEATING		0.0			1.00			0.0							
(K) KITCHEN		0.0			0.65			0.0							
(M) MISCELLANEOUS		0.0			1.00			0.0							
PANELBOARD TOTALS:		0.0 (0A)						0.0 (0A)							

PANEL LOCATION: MECHANICAL RM 05 PANEL FED FROM: MPD				PANEL DESIGNATION: W PANELBOARD RATING: 225AMP MINS: 250A, MLO				VOLTAGE: 120/208V, 3PH-4W MANUFACTURER: SQUARE D STYLE: NQ				AIC RATING: 40KA MOUNTING: SURFACE NEMA TYPE: NEMA-1			
LOAD TYPE	LOAD DESCRIPTION	KVA PER PHASE				POLE	OKT	OKT	POLE	BKR	KVA PER PHASE			LOAD DESCRIPTION	LOAD TYPE
		PH A	PH B	PH C	PH A						PH B	PH C			
M	HAND DRYER W.A	1.8			20	1	1	2	1	20	1.8			HAND DRYER W.B	M
M	HAND DRYER W.A		1.8		20	1	3	4	1	20		1.8		HAND DRYER W.B	M
M	HAND DRYER W.A			1.8	20	1	5	6	1	20			1.8	HAND DRYER W.B	M
M	HAND DRYER FAM 1	1.8			20	1	7	8	1	20	1.8			HAND DRYER FAM 2	M
M	FLUSH VALVE		0.4		20	1	9	10	1	20		1		EW-1.1 RM 001	M
M	FLUSH VALVE			0.4	20	1	11	12	1	20			0.5	WOMEN'S B LIGHTING	L
R	RECEPTACLES GPO	0.36			20	1	13	14	1	20	0.6			MECH RM/TOL L.TG	R
R	RECEPTACLES GPO		0.36		20	1	15	16	1	20		0.6		WOMEN'S A LIGHTING	L
R	EW-1.1 RM 001			0.6	20	2	17	18	2	20			0.6	EW-1.1 RM 107	W
W			0.6				19	20				0.6			W
L	EXT. LIGHTING				20	1	21	22	1	20			0.72	RECEPTACLES EXT. TOILET	R
M	EMERGENCY LIGHTING			0.3	20	1	23	24	1	20			0.72	RECEPTACLES EXT. TOILET	R
M	PHOTOCELL/CONT	0.4			20	1	25	26	1	20	0.1			WEST LIGHTING	L
SPARE	SPARE				20	1	27	28	2	30		1.25		EW-1.2 RM 002	W
SPARE	SPARE				20	1	29	30	-	-		1.25			W
M	QU-1.1	4.6			50	3	31	32	2	30	1.25			EW-1.2 RM 004	W
M	-		4.6		-	-	33	34	-	-		1.25			W
M	-			4.6	-	-	35	36	1	20			0.4	FAUCET VALVE	M
M	AHU-1.1		5		60	3	37	38	1	20	0.4			FAUCET VALVE	M
M	-			5	-	-	39	40	1	20		0.8		FLUSH AND FAUCET VALVE	M
M	-				-	-	41	42	1	20		0.8		FLUSH AND FAUCET VALVE	M
SPARE	SPARE				20	1	43	44	1	20				SPARE	
SPARE	SPARE				20	1	45	46	1	20				SPARE	
SPARE	SPARE				20	1	47	48	1	20				SPARE	
SPARE	SPARE				20	1	49	50	1	20				SPARE	
SPARE	SPARE				20	1	51	52	1	20				SPARE	
SPARE	SPARE				20	1	53	54	1	20				SPARE	
SPARE	SPARE				20	1	55	56	1	20				SPARE	
SPARE	SPARE				20	1	57	58	1	20				SPARE	
SPARE	SPARE				20	1	59	60	1	20				SPARE	
SPARE	SPARE						61	62	-	-				SPARE	
SPARE	SPARE						63	64						SPARE	
SPARE	SPARE						65	66						SPARE	
SPARE	SPARE						67	68						SPARE	
SPARE	SPARE						69	70						SPARE	
SPARE	SPARE						71	72						SPARE	
SPARE	SPARE						73	74						SPARE	
SPARE	SPARE						75	76						SPARE	
SPARE	SPARE						77	78						SPARE	
SPARE	SPARE						79	80	3	30				SPARE	
SPARE	SPARE						81	82	-	-				SPARE	
SPARE	SPARE						83	84	-	-				SPARE	
PANEL BOARD SUB-TOTALS		14.6	12.5	12.7							6.6	7.4	6.1	PANEL BOARD SUB-TOTALS	
LOAD CALCULATIONS:		CONNECTED LOAD (KW)				DEMAND FACTOR				ESTIMATED DEMAND LOAD (KW)				NOTES:	
(L) LIGHTING		2.4				1.25				3.0				1. PROVIDE GPO BREAKERS AS REQUIRED.	
(R) RECEPTACLES (FIRST 10 KW)		2.2				1.00				2.2					
(R) RECEPTACLES (REMAINDER)		0.0				0.50				0.0					
(H) HVAC (WORST CASE)		0.0				1.00				0.0					
(W) WATER HEATING		7.4				1.00				7.4					
(K) KITCHEN		0.0				0.65				0.0					
(M) MISCELLANEOUS		47.8								47.8					
PANELBOARD TOTAL S:		59.8 (100A)								60.4 (100A)					

WIRE SIZE REQUIRED FOR BRANCH
CIRCUITS AT LESS THAN 3% VOLTAGE DROP

		1 FT TO 50 FT	51 FT TO 75 FT	76 FT TO 100 FT	101 FT TO 125 FT	126 FT TO 150 FT	151 FT TO 200 FT
120 V	20A	#12	#10	#8	#8	#6	#6
	30A	#10	#8	#6	#6	#6	#4
	40A	#8	#6	#6	#4	#4	#3
	50A	#6	#6	#4	#4	#3	#2
208 V 1	20A	#12	#12	#12	#10	#10	#8
	30A	#10	#10	#10	#8	#8	#6
	40A	#8	#8	#8	#8	#6	#6
	50A	#8	#8	#8	#6	#6	#4
	60A	#6	#6	#6	#6	#4	#4
	70A	#4	#4	#4	#4	#4	#3
	80A	#4	#4	#4	#4	#4	#3
	90A	#3	#3	#3	#3	#3	#2
	100A	#3	#3	#3	#3	#3	#2
	20A	#12	#12	#12	#10	#10	#8
208 V 3	30A	#10	#10	#10	#8	#8	#6
	40A	#8	#8	#8	#8	#6	#6
	50A	#8	#8	#8	#6	#6	#4
	60A	#6	#6	#6	#6	#6	#4
	70A	#4	#4	#4	#4	#4	#4
	80A	#4	#4	#4	#4	#4	#3
	90A	#3	#3	#3	#3	#3	#3
	100A	#3	#3	#3	#3	#3	#2






CALCULATED USING COPPER WIRE AT 75 C.

BRANCH CIRCUITS HAVE BEEN CALCULATED FOR SINGLE PHASE VOLTAGE
DROP BASED ON SINGLE PHASE CIRCUIT

PANEL LOCATION: WATER TREATMENT PLANT PANEL FED FROM: MDP				PANEL DESIGNATION: WTP PANELBOARD RATING: 225A MINS: 225AMP, MLO				VOLTAGE: 120/208V, 3PH-4W MANUFACTURER: SQUARE D STYLE: NG				AIC RATING: 43KA MOUNTING: SURFACE NEMA TYPE: NEMA-1			
LOAD TYPE	LOAD DESCRIPTION	KVA PER PHASE			BKR	POLE	OKT	OKT	POLE	BKR	KVA PER PHASE			LOAD DESCRIPTION	LOAD TYPE
		PH A	PH B	PH C							PH A	PH B	PH C		
					20	1	1	2	1	20					
					20	1	3	4	1	20					
					20	1	5	6	1	20					
					20	1	7	8	1	20					
					20	1	9	10	1	20					
					20	1	11	12	1	20					
					20	1	13	14	1	20					
					20	1	15	16	1	20					
					20	1	17	18	1	20					
					20	1	19	20	1	20					
					20	1	21	22	1	20					
					20	1	23	24	1	20					
					20	1	25	26	1	20					
					20	1	27	28	1	20					
					20	1	29	30	1	20					
					20	1	31	32	1	20					
					20	1	33	34	1	20					
					20	1	35	36	1	20					
					20	1	37	38	3	30					SPD
					20	1	39	40	-	-					-
					20	1	41	42	-	-					-
PANELBOARD SUB-TOTALS		0.0	0.0	0.0						0.0	0.0	0.0	PANELBOARD SUB-TOTALS		
LOAD CALCULATIONS:		CONNECTED LOAD (KW)			DEMAND FACTOR			ESTIMATED DEMAND LOAD (KW)			NOTES:				
(L) LIGHTING		0.0			1.25			0.0			1. PROVIDE GFC BREAKERS AS REQUIRED				
(R) RECEPTACLES (FIRST 10 KW)		0.0			1.00			0.0							
(R) RECEPTACLES (REMAINDER)		0.0			0.50			0.0							
(H) HVAC (WORST CASE)		0.0			1.00			0.0							
(W) WATER HEATING		0.0			1.00			0.0							
(K) KITCHEN		0.0			0.65			0.0							
(M) MISCELLANEOUS		0.0			1.00			0.0							
PANELBOARD TOTALS:		0.0 (0A)						0.0 (0A)							

PANEL LOCATION: LIFT STATION		PANEL DESIGNATION: LS				VOLTAGE: 120/208V, 3PH-4W				AIC RATING: 43KA				
PANEL FED FROM: MDP		PANEL BOARD RATING: 225A				MANUFACTURER: SQUARE D				MOUNTING: SURFACE				
		MINS: 225A, MLO				STYLE: NG				NEMA TYPE: NEMA-1				
LOAD TYPE	LOAD DESCRIPTION	KVA PER PHASE			POLE	OKT	OKT	POLE	BKR	KVA PER PHASE			LOAD DESCRIPTION	LOAD TYPE
		PH A	PH B	PH C						PH A	PH B	PH C		
M	LIFT STATION S PUMP #1	5.5			100	3	1	2	3	100	5.5		LIFT STATIONS PUMP #2	M
M	-		5.5		-	-	3	4	-	-		5.5	-	M
M	-			5.5	-	-	-	5	6	-			5.5	-
R	CONVENIENT RECEPTACLES	0.2			20	1	7	8	1	20			SPARE	
	SPARE				20	1	9	10	1	20			SPARE	
	SPARE				20	1	11	12	1	20			SPARE	
	SPARE				20	1	13	14	1	20			SPARE	
	SPARE				20	1	15	16	1	20			SPARE	
	SPARE				20	1	17	18	1	20			SPARE	
	SPARE				20	1	19	20	1	20			SPARE	
	SPARE				20	1	21	22	1	20			SPARE	
	SPARE				20	1	23	24	1	20			SPARE	
	SPARE						25	26					SPARE	
	SPARE						27	28					SPARE	
	SPARE						29	30					SPARE	
	SPARE						31	32					SPARE	
	SPARE						33	34					SPARE	
	SPARE						35	36					SPARE	
	SPARE						37	38	3	30			SPD	
	SPARE						39	40	-	-			-	
	SPARE						41	42	-	-			-	
PANELBOARD SUB-TOTALS		5.7	5.5	5.5						5.5	5.5	5.5	PANELBOARD SUB-TOTALS	
LOAD CALCULATIONS:		CONNECTED LOAD (KW)			DEMAND FACTOR			ESTIMATED DEMAND LOAD (KW)			NOTES:			
(L) LIGHTING		0.0			1.25			0.0			1. PROVIDE GFC BREAKERS AS REQUIRED			
(R) RECEPTACLES (FIRST 10 KW)		0.2			1.00			0.2						
(R) RECEPTACLES (REMAINDER)		0.0			0.50			0.0						
(H) HVAC (WORST CASE)		0.0			1.00			0.0						
(W) WATER HEATING		0.0			1.00			0.0						
(K) KITCHEN		0.0			0.65			0.0						
(M) MISCELLANEOUS		33.0			1.00			33.0						
PANELBOARD TOTALS:		33.2 (00A)						33.2 (00A)						

Y:\AutoCAD Files\Work\Gals-10 Rest Area - Columbia\ELECTRICAL\E-606 ELECTRICAL PANEL SCHEDULES.dwg

						 PROJECT NORTH		100% CONSTRUCTION DOCUMENTS					
REVISIONS						<div><div>BOBES ASSOCIATES CONSULTING ENGINEERS 120 CIRCLE DRIVE, WATLAND, FL 32791 TELEPHONE: 407-438-0052 FLORIDA STATE P.E. NUMBER 5131 NCS BOBES JR. P.E., P.E. NUMBER 38410</div></div>		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SR 8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREA		DRAWING NO.	
E-606													
SHEET NO.													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.		COUNTY	FINANCIAL PROJECT ID	E-606 ELECTRICAL PANEL SCHEDULES			
						SR 8		COLUMBIA	438609-1-52-01				



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905 BOBES JR. P.E., P.E. NUMBER 28410

Augusto E. Bobes Jr., P.E. No. 39410

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

E-606 ELECTRICAL PANEL SCHEDULES

