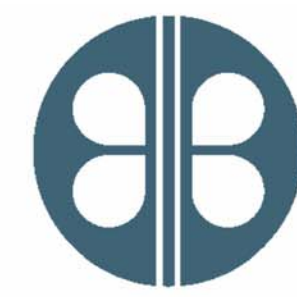


# OC SHERIFF'S OFFICE IT SERVICES RENOVATION



**BORRELLI + PARTNERS**

ARCHITECTURE PLANNING LANDSCAPE INTERIORS  
AAC 000711

720 Vassar Street, Orlando Fl. 32804  
407.418.1338 :: fax 407.418.1342

## PROJECT INDEX

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○ Sheet List  
1/4" = 1'-0"

17-147

Orange County Sheriff's Office

100% CONSTRUCTION DOCUMENTS

10.4.18



2500 West Colonial Dr  
Orlando, Florida

## CONSULTANTS

MECHANICAL, PLUMBING,  
FIRE PROTECTION &  
ELECTRICAL ENGINEERS

**BOBES ASSOCIATES**  
CONSULTING ENGINEERS

150 Circle Dr.  
Maitland, FL 32751

Architectural General Notes:

- 1. CONTRACTOR SHALL VISIT AND INSPECT THE PREMISES, PRIOR TO SUBMITTING THEIR PROPOSAL...
2. CONTRACTOR SHALL, BEFORE COMMENCING WORK, REVIEW ALL PLANS, NOTES, GENERAL CONDITIONS...
3. CONTRACTOR SHALL MAKE KNOWN TO THE ARCHITECT ANY LIMITATIONS, EXCLUSIONS, OR MODIFICATIONS...
4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF HIS MEASUREMENTS AND TOTAL FINISH REQUIREMENTS...
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTION OF 100% CONSTRUCTION DOCUMENTS...
6. THE CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIALS TO EXECUTE ALL WORK AS SHOWN ON THESE DRAWINGS...
7. THE CONTRACTOR SHALL KEEP SUFFICIENT WORKERS ON THE JOB SITE AT ALL TIMES TO PERFORM THE WORK...
8. ALL FEES, TAXES, PERMITS, APPLICATIONS, CERTIFICATES OF INSPECTION AND THE FILING OF ALL WORK WITH GOVERNMENTAL AGENCIES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
9. CONTRACTOR SHALL NOT PROCEED WITH ANY ADDITIONAL WORK OR CHANGES FOR WHICH THEY EXPECT ADDITIONAL COMPENSATION WITHOUT WRITTEN AUTHORIZATION TO PERFORM SUCH WORK.
10. CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS OPERATIONS...
11. PREMISES SHALL BE SWEEP CLEAN DAILY OF CONSTRUCTION DEBRIS.
12. FINAL CLEANING PRIOR TO END USER OCCUPANCY SHALL INCLUDE (BUT NOT BE LIMITED TO): CLEANING OF ALL WOOD AND GLASS SURFACES...
13. GENERAL CONTRACTOR AND HIS VENDORS SHALL DETERMINE AVAILABILITY OF ALL FINISH MATERIALS, TRADES AND ITEMS SHOWN IN THESE DOCUMENTS...
14. THE CONTRACTOR SHALL BE ANSWERABLE FOR THEIR WORK AND SHALL NOT ACCEPT INSTRUCTION FROM LOCAL PERSONNEL WITHOUT VERIFICATION FROM THE TENANT'S AGREED UPON REPRESENTATIVE...
15. PROVIDE ALL WOOD BLOCKING NECESSARY FOR THE ATTACHMENT OF MISCELLANEOUS EQUIPMENT INCLUDING BUT NOT LIMITED TO TOILET ACCESSORIES, TV BRACKETS, DOOR HARDWARE, ELECTRICAL DEVICES, EQUIPMENT, GRAB BARS, HANDRAILS, CASEWORK AND MILLWORK, AS APPLICABLE.
16. CONTRACTOR SHALL COMPLY WITH ALL THE RULES AND REGULATIONS OF THE BUILDING AS TO HOURS OF AVAILABILITY OF ELEVATORS, LOADING DOCKS, ETC. FOR THE PURPOSE OF DELIVERY AND THE MANNER OF HANDLING MATERIALS, EQUIPMENT AND DEBRIS...
17. EACH CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS PRIOR TO PROCEEDING WITH CONSTRUCTION AND OBTAIN ALL MEASUREMENTS REQUIRED FOR PROPER EXECUTION OF WORK...
18. THE TRANSITION OF DIFFERENT FLOORING MATERIALS AT A DOORWAY SHALL OCCUR AT THE CENTERLINE OF DOOR UNLESS INDICATED OTHERWISE.
19. ALL WALL SURFACES, DOOR FRAMES, BULKHEADS AND CEILINGS SHALL RECEIVE PAINT WHEN PAINT IS INDICATED ON THE FINISH SCHEDULE OR FINISH PLANS...
20. REPAIR ALL SURFACES DAMAGED BY NEW CONSTRUCTION TO MATCH EXISTING ADJACENT OR CONTIGUOUS FINISH.
21. ALL CUTTING AND PATCHING AS A RESULT OF NEW CONSTRUCTION SHALL BE PERFORMED IN A WORKMANLIKE MANNER...
22. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.
23. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
24. UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TAKEN FROM FACE OF STUDS, OR FACE OF FINISH GYP. BD. (CORRIDORS), TO FACE OF FINISH.
25. DOORS NOT OTHERWISE DIMENSIONED SHALL BE 8" FROM FACE OF ADJACENT CMU OR CONCRETE WALL TO ROUGH DOOR OPENING...
26. FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE PRODUCT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND STANDARD DETAILS...
27. PLAN NORTH DIFFERS FROM ACTUAL NORTH. ACTUAL NORTH IS INDICATED ON PLAN SHEETS FOR REMAINDER OF DISCIPLINES UNO.
28. IF THE CONTRACTOR ENCOUNTERS ANY UNFORESEEN CONDITION, THE ARCHITECT MUST BE MADE AWARE FOR A POSSIBLE CHANGE IN DESIGN.
29. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION AND DIMENSIONS OF CHASE, INSERTS, OPENINGS, SLEEVES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS...
30. THESE DRAWINGS WERE DESIGNED TO BE USED (AND REFERENCED) BY AN EXPERIENCED, QUALIFIED AND FLORIDA LICENSED GENERAL CONTRACTOR...
31. CONTRACTOR SHALL SUBMIT SAMPLES TO THE TENANT FOR REVIEW OF ALL MATERIALS INTENDED TO BE USE IN THE WORK PRIOR TO COMMENCEMENT OF WORK.
32. WHEN THE JOB IS SUBSTANTIALLY COMPLETE, THE GENERAL CONTRACTOR SHALL PREPARE A PUNCH LIST OF ITEMS TO BE COMPLETED OR CORRECTED AND SUBMIT THIS LIST TO BUILDING OWNER AND TO THE TENANT...
33. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE END USER (IN WRITING) ALL MANUFACTURER'S MANUALS, WARRANTIES, AND RECOMMENDED MAINTENANCE PROCEDURES/SCHEDULES FOR ALL EQUIPMENT AND FINISHES INSTALLED.
34. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE GOVERNMENTAL AGENCY HAVING JURISDICTION AND SHALL CONFORM TO ALL LIFE SAFETY AND SANITARY LAWS, CITY, COUNTY, STATE, AND/OR FEDERAL ORDINANCES WHICH APPLY.
35. THE MANUFACTURER'S STANDARD DETAILS SHALL APPLY UNLESS OTHERWISE DETAILED IN CONSTRUCTION DOCUMENTS.
36. FINISH FLOOR ELEVATION 0'-0" SHOWN ON ARCHITECTURAL DRAWINGS IS EQUAL TO ACTUAL FINISH FLOOR ELEVATIONS SHOWN ON CIVIL DRAWINGS.
37. ASBESTOS OR ANY ASBESTOS CONTAINING MATERIAL SHALL NOT BE USED UNDER ANY CIRCUMSTANCES.

ABBREVIATIONS

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes entries like AB ANCHOR BOLTS, AC or A/C AIR CONDITIONING, FE FLOOR DRAIN, etc.

Abbreviations 1/4" = 1'-0"

ARCHITECTURAL ANNOTATION LEGEND

Table with 2 columns: SYMBOL, LEGEND. Includes symbols for DOOR IDENTIFIER, LOUVER IDENTIFIER, WALL TYPE INDICATOR, WINDOW IDENTIFIER, ROOM IDENTIFICATION TAG, ROOM IDENTIFICATION TAG + AREA, LEVEL HEAD INDICATOR, GRID REFERENCE INDICATOR, DETAIL INDICATOR / DETAIL CALLOUT, ELEVATION INDICATOR, SECTION HEAD INDICATOR, NORTH ARROW, DIRECTION OF SLOPE DOWN, BREAK LINE, CENTER LINE, CONTROL JOINT, EXPANSION JOINT, REVISION TAG, LEFT SIDED ELEVATION, RIGHT SIDED ELEVATION, TILE TAG.

Architectural Annotation Legend 1/4" = 1'-0"

GENERAL & DEMOLITION NOTES:

- 1. PRIOR TO THE BEGINNING OF THE PROJECT, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF THE EXISTING STRUCTURE GIVEN IN THIS SET OF DRAWINGS.
2. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DIMENSIONS GIVEN IN THE DRAWINGS AND THE DIMENSIONS OBTAINED IN THE FIELD.
3. THE ARCHITECT ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THE DIMENSIONS DUE TO THE NATURE OF THE PROJECT...
4. ALL DEMOLITION / CONSTRUCTION WORKS SHALL BE COORDINATED WITH THE OWNER IN ORDER TO PREVENT POSSIBLE CONFLICTS WITH THE OWNER'S NORMAL OPERATING CONDITIONS.
5. THE CONTRACTOR SHALL TAKE PRECAUTIONS IN ORDER TO PREVENT THE DUST FROM BECOMING A NUISANCE TO THE PUBLIC AND / OR NEIGHBORS.
6. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL CONSTRUCTION AND ITEMS INDICATED IN THE DRAWINGS WHICH WOULD INTERFERE WITH THE NEW CONSTRUCTION...
7. THE CONTRACTOR SHALL PROVIDE FACILITIES AND / OR STATIONS FOR THE DISPOSAL OF ALL THE SCRAP MATERIAL FROM THE DEMOLITION WORKS...
8. THE CONTRACTOR SHALL PROVIDE VEHICLES AND BE RESPONSIBLE FOR THE COLLECTION AND DISPOSAL OF ALL THE WASTE GENERATED DURING THE DEMOLITION / CONSTRUCTION WORKS.
9. AFTER DEMOLITION AND / OR REMOVAL OF SPECIFIED ITEMS, THE CONTRACTOR SHALL CLEAN, PATCH AND PREPARE ALL SURFACES AS PER MANUFACTURER'S INSTRUCTIONS FOR THE FINISHES SPECIFIED.
10. ANY PART OF THE WORK AND / OR THE EXISTING BUILDING DAMAGED BY THE DEMOLITION PHASE, SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
11. THE CONTRACTOR SHALL SUBMIT A WRITTEN PROCEDURE FOR THE DEMOLITION OF THE STRUCTURAL ELEMENTS, AND A LIST OF THE DEMOLITION TOOLS TO BE USED FOR THE APPROVAL OF THE ARCHITECT.
12. ALL EQUIPMENT USED DURING THE DEMOLITION / CONSTRUCTION WORKS SHALL BE IN OPTIMUM CONDITION TO PREVENT EXCESSIVE EMISSIONS OF CARBON MONOXIDE.
13. PROVIDE ADEQUATE SHORING TO THE ROOF SLAB AT THE WALL OR SLAB TO BE DEMOLISHED.
14. THE CONTRACTOR IS TO SHUT OFF AND OTHERWISE PROTECT EXISTING PRIVATE AND PUBLIC UTILITIES IN ACCORDANCE WITH THE AGENCIES HAVING JURISDICTION.
15. NEW CONCRETE WALLS SHALL BE ANCHORED BY MEANS OF DOWELS INSERTED INTO THE EXISTING STRUCTURE AT LEAST 6" AND FILLED WITH COMPRESSIVE 1001 LPL OR AN APPROVED EQUAL EPOXY.
16. FOR NEW WATER, SANITARY, AND / OR VENTILATION PIPE INSTALLATION, REFER TO THE PLUMBING NOTES.

General & Demolition Notes 1/4" = 1'-0"

Architectural General Notes 1/4" = 1'-0"

BORRELLI + PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIORS AND MORE. 720 Vassar Street, Orlando FL, 32804. 407.418.1338 :: fax 407.418.1342

SIGNATURE AND DATED SEAL

CONSULTANTS

ARCHITECTURAL INFORMATION

Table with columns: PROJECT ADDRESS, DATE, REV., DESCRIPTION, PROJECT No., PHASE, SCALE, DRAWN BY, CHECKED BY, DATE.

A001 OF

OC SHERIFF'S OFFICE IT SERVICES RENOVATION

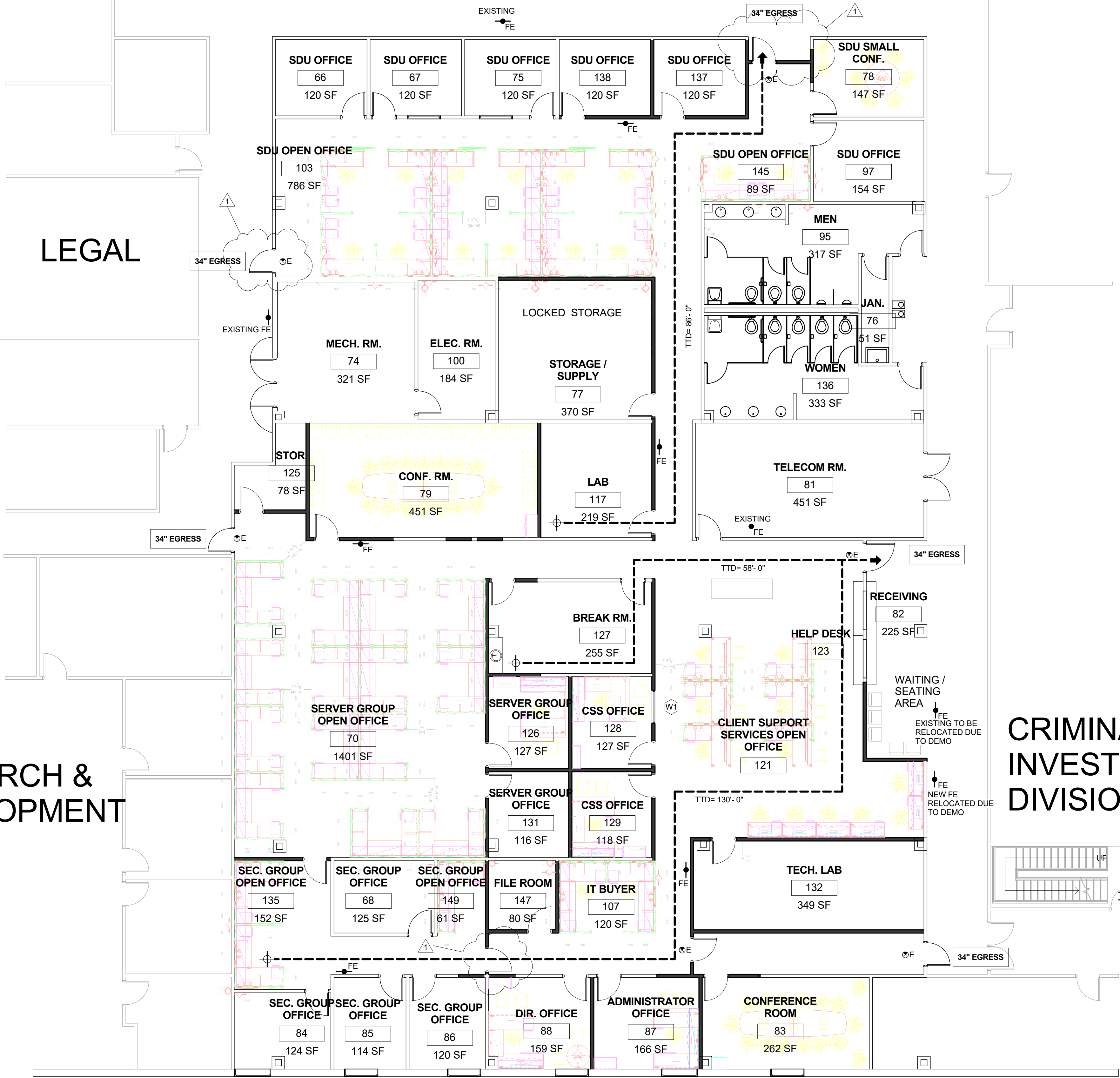
FISCAL TRAINING

ELEVATOR

LEGAL

RESEARCH & DEVELOPMENT

CRIMINAL INVESTIGATION DIVISION



LIFE SAFETY LEGEND

- SYMBOL
- LEGEND
- 1 HR RATED WALL
- - - - 2 HR RATED WALL
- TTD= 1'-0"
- CPT= 1'-0"
- STARTING POINT OF TRAVEL DISTANCE
- FIRE EXTINGUISHER WALL MOUNTED
- FIRE EXTINGUISHER SEMI RECESSED
- FIRE EXTINGUISHER RECESSED
- WALL EXIT LIGHT
- EXIT LIGHT
- EXISTING EXIT LIGHT
- EXIT

**TYPES OF FIRES - EXTINGUISHER:**

**Class A**  
Class A fires are fires in ordinary combustibles such as wood, paper, cloth, trash, and plastics.

**Class B**  
Class B fires are fires in flammable liquids such as gasoline, petroleum oil and paint. Class B fires also include flammable gases such as propane and butane. Class B fires do not include fires involving cooking oils and grease.

**Class C**  
Class C fires are fires involving energized electrical equipment such as motors, transformers, and appliances. Remove the power and the Class C fire becomes one of the other classes of fire.

**Class D**  
Class D fires are fires in combustible metals such as potassium, sodium, aluminum, and magnesium.

**Class K**  
Class K fires are fires in cooking oils and greases such as animals fats and vegetable fats.

CODES AND STANDARDS COMPLIANCE

- FBC 2017 (6TH EDITION) - BUILDING
- FBC 2017 (6TH EDITION) - ACCESSIBILITY
- FBC 2017 - MECHANICAL
- NATIONAL ELECTRICAL CODE 2014
- FBC 2017 (6TH EDITION) - PLUMBING
- FLORIDA FIRE PREVENTION CODE (6TH EDITION)
- LIFE SAFETY CODE (NFPA 101) FLORIDA 2015
- ORLANDO CITY CODE

EGRESS CALCULATIONS

TOTAL OCCUPANT LOAD: 179 PERSONS  
 TOTAL EXIT WIDTH REQUIRED: 179 PERSONS X 0.2"/PERSON = 36"  
 PROVIDED EXIT WIDTH: 170"

MINIMUM NUMBER OF EXITS: 2  
 MAXIMUM TRAVEL DISTANCE: 300 FT.  
 MAXIMUM DEAD END CORRIDOR: 50 FT.  
 MINIMUM CORRIDOR WIDTH: 44"

ACTUAL: 5 PROVIDED  
 ACTUAL: 130'-0"  
 ACTUAL: 9'-3"  
 ACTUAL: 58"

OCCUPANCY REQUIREMENTS

GROUP "B"	USE	LOAD FACTOR	OCCUPANT LOAD
66	SDU OFFICE	100 SF GROSS	120 SF / 100 2
67	SDU OFFICE	100 SF GROSS	120 SF / 100 2
75	SDU OFFICE	100 SF GROSS	120 SF / 100 2
138	SDU OFFICE	100 SF GROSS	120 SF / 100 2
137	SDU OFFICE	100 SF GROSS	120 SF / 100 2
78	SDU SMALL CONF.	15 SF GROSS	147 SF / 15 10
103	SDU OPEN OFFICE	100 SF GROSS	786 SF / 100 8
145	SDU OPEN OFFICE	100 SF GROSS	89 SF / 100 1
97	SDU OFFICE	100 SF GROSS	154 SF / 100 2
77	STORAGE/SUPPLY	300 SF GROSS	370 SF / 300 2
125	STOR.	300 SF GROSS	78 SF / 300 1
79	CONF. RM.	15 SF GROSS	451 SF / 15 30
117	LAB	20 SF GROSS	219 SF / 20 11
70	SERVER GROUP OPEN OFFICE	100 SF GROSS	1401 SF / 100 15
127	BREAK RM.	100 SF GROSS	255 SF / 100 3
126	SERVER GROUP OFFICE	100 SF GROSS	127 SF / 100 2
128	CSS OFFICE	100 SF GROSS	127 SF / 100 2
131	SERVER GROUP OFFICE	100 SF GROSS	116 SF / 100 2
129	CSS OFFICE	100 SF GROSS	118 SF / 100 2
121	CLIENT SUPPORT SERVICES OPEN OFFICE	100 SF GROSS	853 SF / 100 9
82	RECEIVING	15 SF GROSS	225 SF / 15 15
135	SEC. GROUP OPEN OFFICE	100 SF GROSS	125 SF / 100 2
68	SEC. GROUP OFFICE	100 SF GROSS	125 SF / 100 2
149	SEC. GROUP OPEN OFFICE	100 SF GROSS	61 SF / 100 1
147	FILE RM.	300 SF GROSS	80 SF / 300 1
107	IT BUYER	100 SF GROSS	120 SF / 100 2
132	TECH. LAB	20 SF GROSS	349 SF / 20 18
84	SEC. GROUP OFFICE	100 SF GROSS	124 SF / 100 2
85	SEC. GROUP OFFICE	100 SF GROSS	114 SF / 100 2
86	SEC. GROUP OFFICE	100 SF GROSS	120 SF / 100 2
88	DIR. OFFICE	100 SF GROSS	159 SF / 100 2
87	ADMINISTRATOR OFFICE	100 SF GROSS	166 SF / 100 2
83	CONFERENCE RM.	15 SF GROSS	262 SF / 15 18

TOTAL OCCUPANT LOAD 179

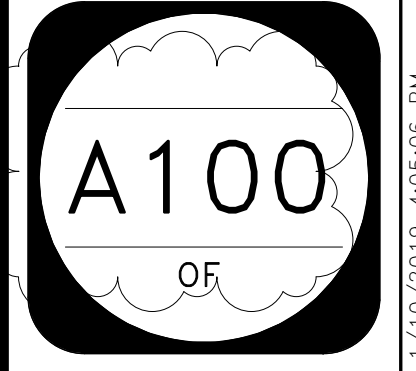
Occupant Load Calculations  
 1/4" = 1'-0"

1 LIFE SAFETY FLOOR PLAN  
 1/8" = 1'-0"

CONSULTANTS

LIFE SAFETY PLAN

PROJECT No.	17-147
PHASE	100% CONSTRUCTION DOCUMENTS
SCALE	As indicated
DRAWN BY	Author
CHECKED BY	Checker
DATE	10.4.18





\*\*\*DEMO DOORS AND HARDWARE ARE TO BE RE-USED IN DESIGN WITH PROPER TYPE. ADD VISION KIT WHEN NECESSARY. CONTRACTOR TO REVIEW FINAL COUNT OF RE-USABLE DOORS W/ CLIENT FOR LOCATIONS.

WALL LEGEND	
	WALL TO BE REMOVED
	EXISTING WALL
	NEW WALL

1 DEMOLITION FLOOR PLAN  
1/8" = 1'-0"

**BORRELLI + PARTNERS**  
ARCHITECTURE PLANNING LANDSCAPE INTERIORS  
720 Vassar Street, Orlando, FL 32804  
407.418.1338 :: fax 407.418.1342

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SIGNATURE AND DATED SEAL

CONSULTANTS

ALFONSO AVILA, JR., LIC.# AR 0017222

**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

PROJECT ADDRESS  
2500 West Colonial Dr  
Orlando, Florida

OWNER NAME AND ADDRESS  
Orange County Sheriff's Office

SHEET TITLE  
DEMOLITION FLOOR PLAN

REV.	DESCRIPTION	DATE
1	Permit	12.12.18
	Comments	

PROJECT No. 17-147

PHASE 100% CONSTRUCTION DOCUMENTS

SCALE 1/8" = 1'-0"

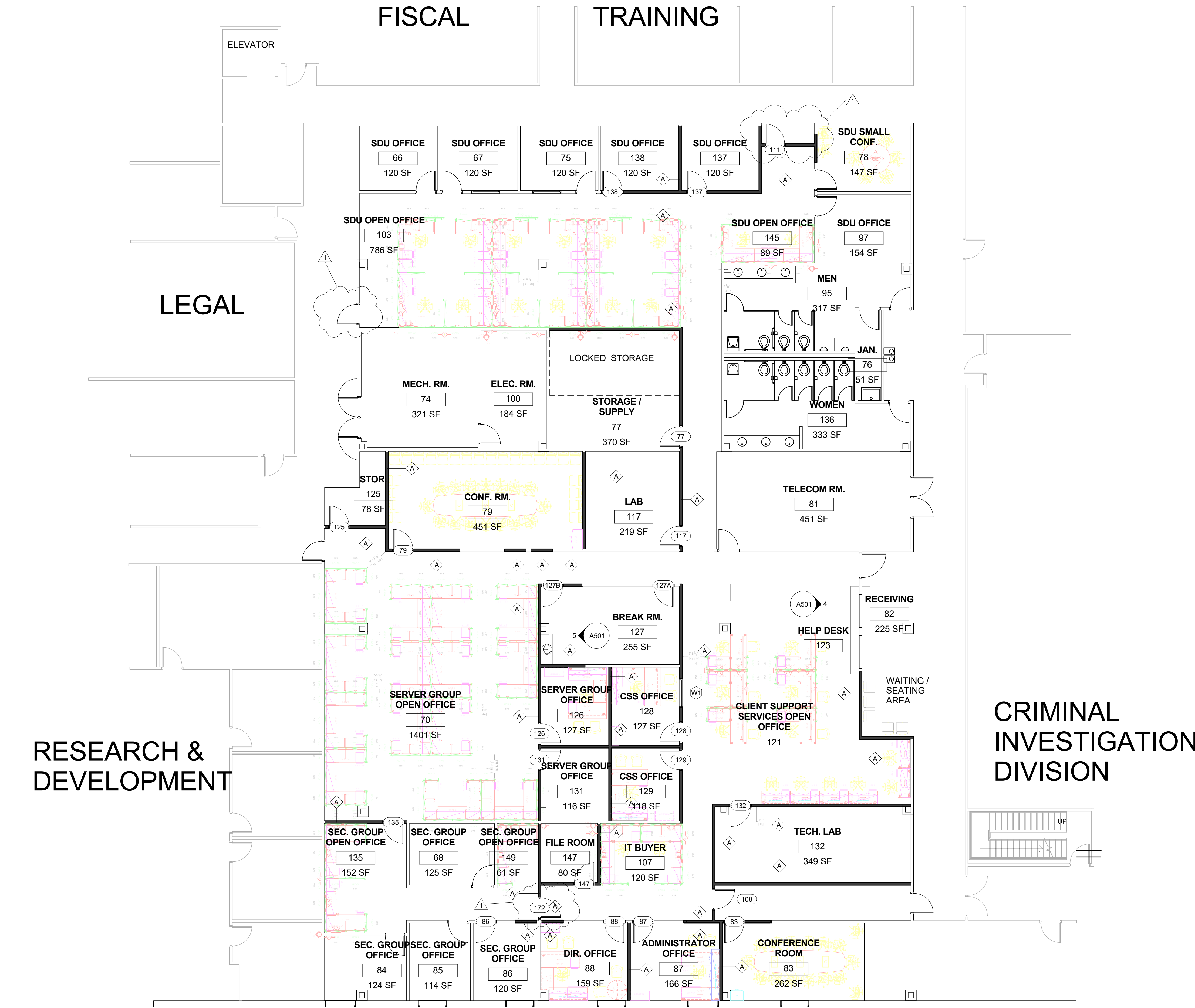
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CHECKED BY JLM

DATE 10.4.18

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**A101**  
OF



RESEARCH & DEVELOPMENT

LEGAL

FISCAL TRAINING

CRIMINAL INVESTIGATION DIVISION

\*\*\*SYSTEMS FURNITURE TO BE PROVIDED AND INSTALLED BY OWNER.

Wall Type

TYPE	INDICATION	DESCRIPTION	COMMENTS
A		3-5/8" Metal Studs @ 16" O.C. With 5/8" Gypsum Board Each Side Painted to Match Existing Finish	Wall constructions and heights are to match existing conditions.

Wall Types  
1/4" = 1'-0"

WALL LEGEND	
	WALL TO BE REMOVED
	EXISTING WALL
	NEW WALL

1 ANNOTATION FLOOR PLAN  
1/8" = 1'-0"

OC SHERIFF'S OFFICE IT SERVICES RENOVATION

**BORRELLI + PARTNERS**  
ARCHITECTURE PLANNING LANDSCAPE INTERIORS  
720 Vassar Street, Orlando, FL 32804  
407.418.1338 :: fax 407.418.1342

PROJECT ADDRESS  
2500 West Colonial Dr  
Orlando, Florida

OWNER NAME AND ADDRESS  
Orange County Sheriff's Office

PROJECT No. 17-147

DATE 12.12.18

PHASE 100% CONSTRUCTION DOCUMENTS

SCALE As indicated

DRAWN BY JLM

CHECKED BY JLM

DATE 10.4.18

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REVISIONS

1 Permit Comments

SHEET TITLE

ANNOTATION FLOOR PLAN

SIGNATURE AND DATED SEAL

CONSULTANTS

ALFONSO AVILA, JR., LIC.# AR 0017222

A102  
OF

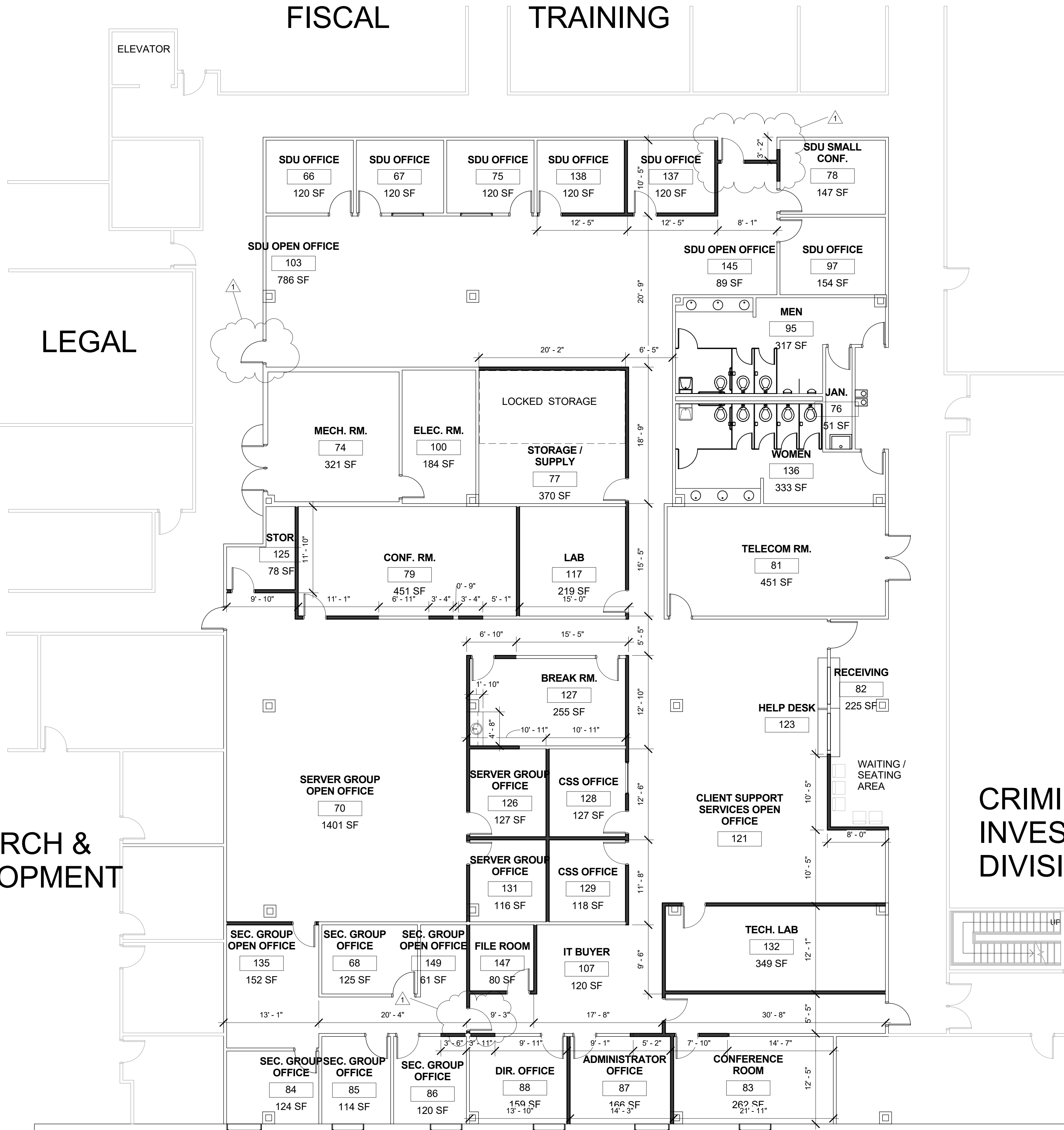
RESEARCH & DEVELOPMENT

LEGAL

FISCAL

TRAINING

CRIMINAL INVESTIGATION DIVISION



WALL LEGEND	
	WALL TO BE REMOVED
	EXISTING WALL
	NEW WALL

1 DIMENSION FLOOR PLAN  
1/8" = 1'-0"

OC SHERIFF'S OFFICE IT SERVICES RENOVATION

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ARCHITECTURE PLANNING LANDSCAPE INTERIORS  
720 Vassar Street, Orlando, FL 32804  
407.418.1338 :: fax 407.418.1342

SIGNATURE AND DATED SEAL

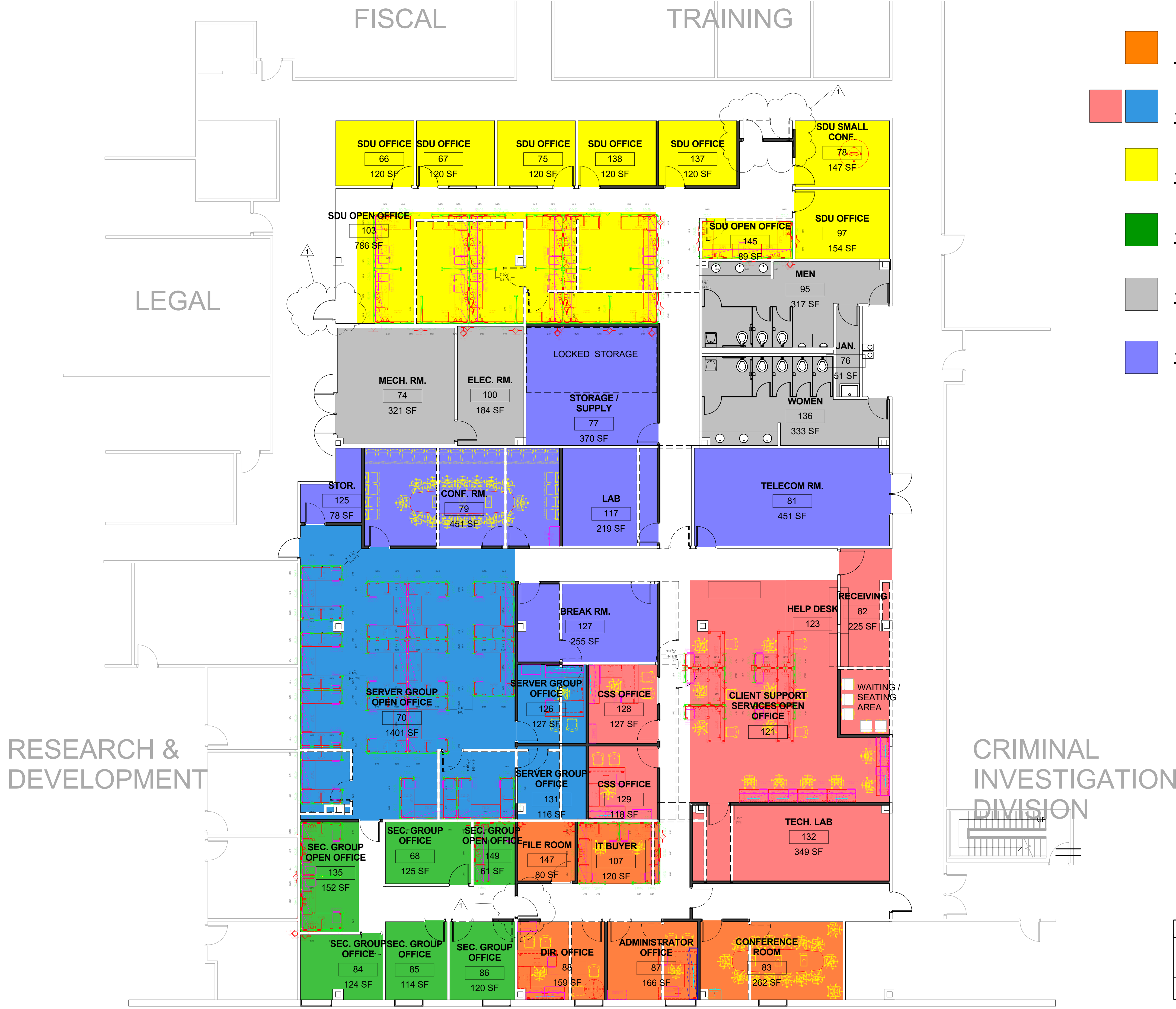
CONSULTANTS

SHEET TITLE

DIMENSION FLOOR PLAN

REV.	DESCRIPTION	DATE
1	Permit	12.12.18
	Comments	

PROJECT No. 17-147  
PHASE 100% CONSTRUCTION DOCUMENTS  
SCALE 1/8" = 1'-0"  
DRAWN BY Author  
CHECKED BY Checker  
DATE 10.4.18

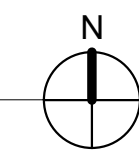


**LEGEND**

- Director
- Server/Client Support Services
- SDU
- Security Group
- Support Areas
- Shared Program

WALL LEGEND	
---	WALL TO BE REMOVED
---	EXISTING WALL
---	NEW WALL

1 DEMOLITION & NEW FLOOR PLAN  
1/8" = 1'-0"



**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

**BORRELLI + PARTNERS**  
ARCHITECTURE PLANNING LANDSCAPE INTERIORS  
720 Vassar Street, Orlando, FL 32804  
407.418.1338 :: fax 407.418.1342

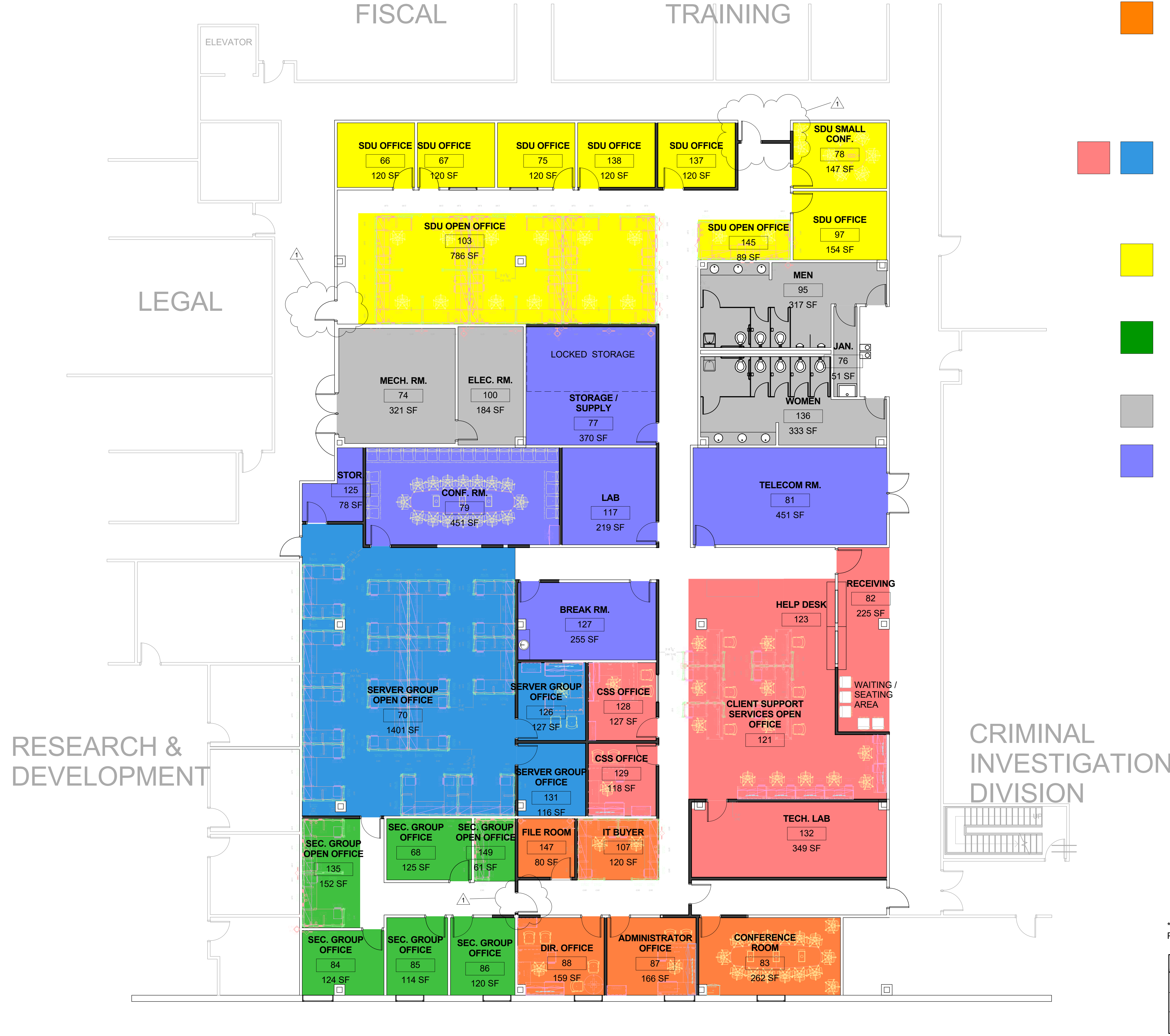
SIGNATURE AND DATED SEAL

CONSULTANTS  
**DEMOLITION & RENOVATION FLOOR PLAN**

PROJECT No.	17-147
PHASE	100% CONSTRUCTION DOCUMENTS
SCALE	1/8" = 1'-0"
DRAWN BY	RP
CHECKED BY	JLM
DATE	10.4.18

REV.	DESCRIPTION	DATE
1	Permit Comments	12.12.18

**A104**  
OF



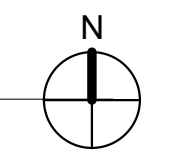
**LEGEND**

- Director**  
1 Office  
1 Administrator Office  
1 Conference Room  
1 File Room  
2 Additional Cubicles
- Server/Client Support Services**  
4 Offices  
22 Cubicles + (3 Additional)  
1 Tech. Lab
- SDU**  
5 Offices + (1 Additional)  
9 Cubicles + (3 Additional)
- Security Group**  
3 Offices + (1 Additional)  
3 Cubicles
- Support Areas**
- Shared Program**

\*\*\*SYSTEMS FURNITURE TO BE PROVIDED AND INSTALLED BY OWNER.

WALL LEGEND	
—	WALL TO BE REMOVED
---	EXISTING WALL
—	NEW WALL

1 CONCEPTUAL FLOOR PLAN  
1/8" = 1'-0"



**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

	<b>BORRELLI + PARTNERS</b> ARCHITECTURE PLANNING LANDSCAPE INTERIORS 720 Vassar Street, Orlando, FL 32804 407.418.1338 :: fax 407.418.1342 <small>CONTRACTOR: THE UNIVERSITY OF SHERIFFS OF ORANGE COUNTY, FLORIDA          1100 EAST COLONIAL DRIVE, ORLANDO, FLORIDA 32801          407.418.1338</small>
SIGNATURE AND DATED SEAL	CONSULTANTS
SHEET TITLE	FLOOR PLAN DIAGRAM
PROJECT ADDRESS	OWNER NAME AND ADDRESS
PROJECT ADDRESS	OWNER NAME AND ADDRESS
DATE	DATE
REV. I. DESCRIPTION	DATE
1 Permit	12.12.18
2 Comments	
PHASE	SCALE
100% CONSTRUCTION DOCUMENTS	1/8" = 1'-0"
DRAWN BY	R.P.
CHECKED BY	J.L.M.
DATE	DATE
17-147	10.4.18
<small>F:\OC Sheriff's IT Svcs Area Remod (17-147)\4 B Drawings\A B Drawings\OC Sheriff's Office_IT Svcs Remod 17-147.rvt</small>	





HATCH	SYMBOL		
	CPT1	CPT-1	59555 CAPTIVATE TILE SHAW CONTRACT COLOR: 54481 PALM TREE
	CPT2	CPT-2	5T079 SHAW CONTRACT GROUP FIELD TILE COLOR: 78502 DOMAIN
	LVT1	LVT-1	SHAW SURFACE TERRAIN 0564V (20 MIL) 6" X 48" NOMINAL COLOR: 00755 NEST
	B1	B-1	SHAW CONTRACT GROUP 149VS 4.5" ANGLE PROFILE COLOR: 00760 CLAY (4.5" WIDE)
	P1	P-1	PAINT IS TO MATCH EXISTING

○ Finishes Legend  
1/4" = 1'-0"

1 FLOORING FLOOR PLAN  
1/8" = 1'-0"

**BORRELLI + PARTNERS**  
ARCHITECTURE PLANNING LANDSCAPE INTERIORS  
720 Vassar Street, Orlando, FL 32804  
407.418.1338 :: fax 407.418.1342

CONTRACT NO. 17-147-18  
PROJECT NO. 17-147-18  
DATE 12.12.18  
SCALE As indicated  
DRAWN BY JLM  
CHECKED BY JLM  
DATE 10.4.18

PROJECT ADDRESS  
2500 West Colonial Dr  
Orlando, Florida

OWNER NAME AND ADDRESS  
Orange County Sheriff's Office

PROJECT TITLE  
OC SHERIFF'S OFFICE IT SERVICES RENOVATION

SHEET TITLE  
FLOORING FINISH PLAN

SIGNATURE AND DATED SEAL  
ALFONSO AVILA, JR., LIC.# AR 007222

PROJECT No. 17-147  
PHASE 100% CONSTRUCTION DOCUMENTS  
SCALE As indicated  
DRAWN BY JLM  
CHECKED BY JLM  
DATE 10.4.18

REV. I DESCRIPTION DATE  
1 Permit 12.12.18  
Comments

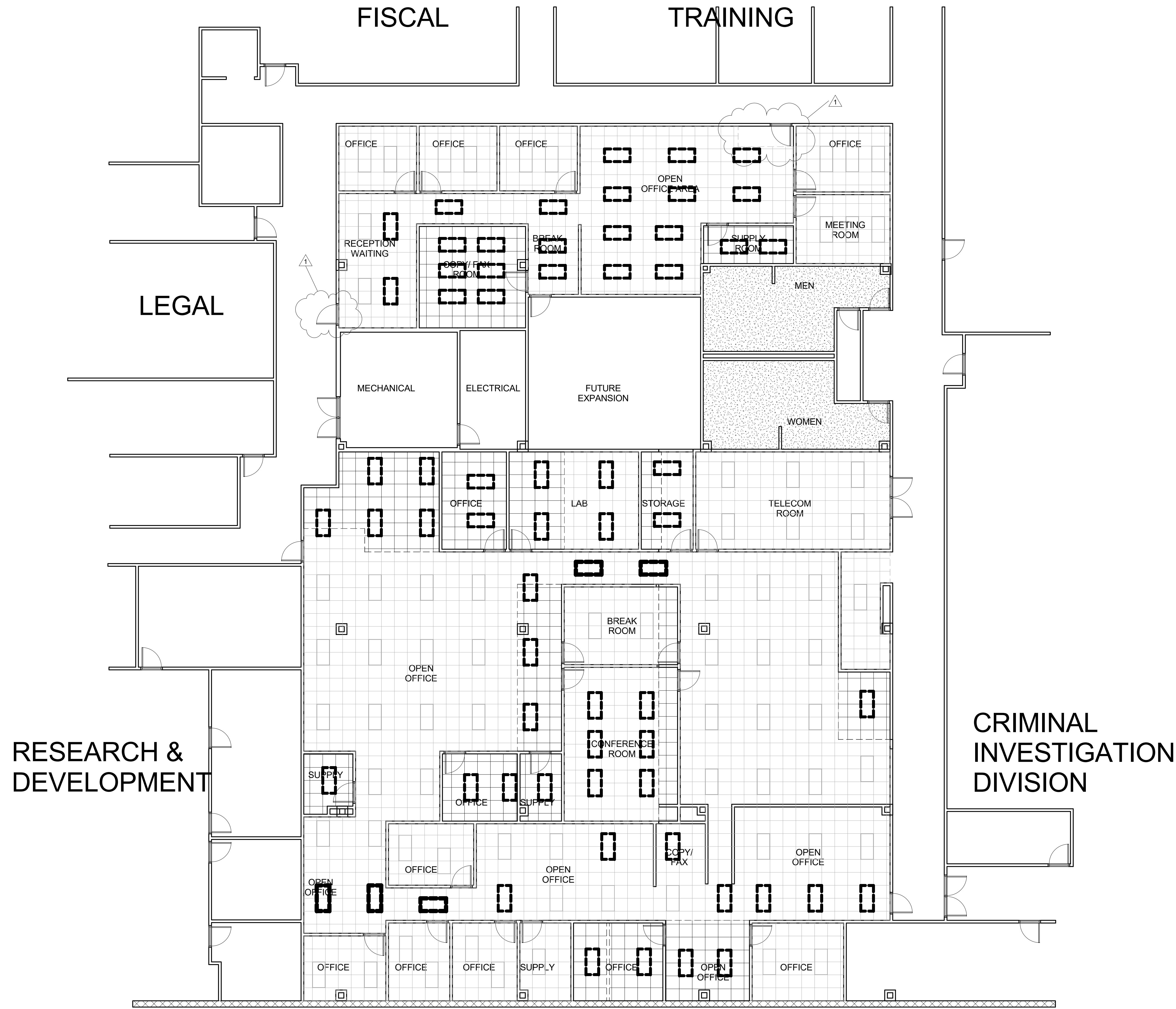
17-147  
12.12.18  
As indicated  
JLM  
10.4.18

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F:\OC Sheriff's IT Svcs Area Remod (17-147)\4 B Drawings\A B B-P\Local DD\OC Sheriff's Office\_IT Svcs Remod 17-147.rvt



**WALL LEGEND**  
 WALL TO BE REMOVED  
 EXISTING WALL  
 NEW WALL

**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

<p><b>PROJECT No.</b> 17-147  <b>PHASE</b> 100% CONSTRUCTION DOCUMENTS  <b>SCALE</b> 1/8" = 1'-0"  <b>DRAWN BY</b> RP  <b>CHECKED BY</b> JLM  <b>DATE</b> 10.4.18</p>	<p><b>REV.</b> 1  <b>DESCRIPTION</b> Permit  <b>DATE</b> 12.12.18</p>	<p><b>PROJECT ADDRESS</b>          2500 West Colonial Dr          Orlando, Florida  <b>OWNER NAME AND ADDRESS</b>          Orange County Sheriff's Office</p>	<p><b>SHEET TITLE</b>          DEMO REFLECTED CEILING PLAN</p>	<p><b>CONSULTANTS</b></p>	<p><b>SIGNATURE AND DATED SEAL</b></p>
<p><b>BORRELLI + PARTNERS</b>          ARCHITECTURE PLANNING LANDSCAPE INTERIORS          720 Vassar Street, Orlando, FL 32804          407.418.1338 :: fax 407.418.1342</p>					
<p>CONTRACTOR: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES AND AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES AND AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES AND AUTHORITIES.</p>					



1 REFLECTED CEILING PLAN  
1/8" = 1'-0"

OC SHERIFF'S OFFICE IT SERVICES RENOVATION

**BORRELLI + PARTNERS**  
ARCHITECTURE PLANNING LANDSCAPE INTERIORS  
720 Vassar Street, Orlando, FL 32804  
407.418.1338 :: fax 407.418.1342  
ALFONSO AVILA, JR., LIC.# AR 0017222

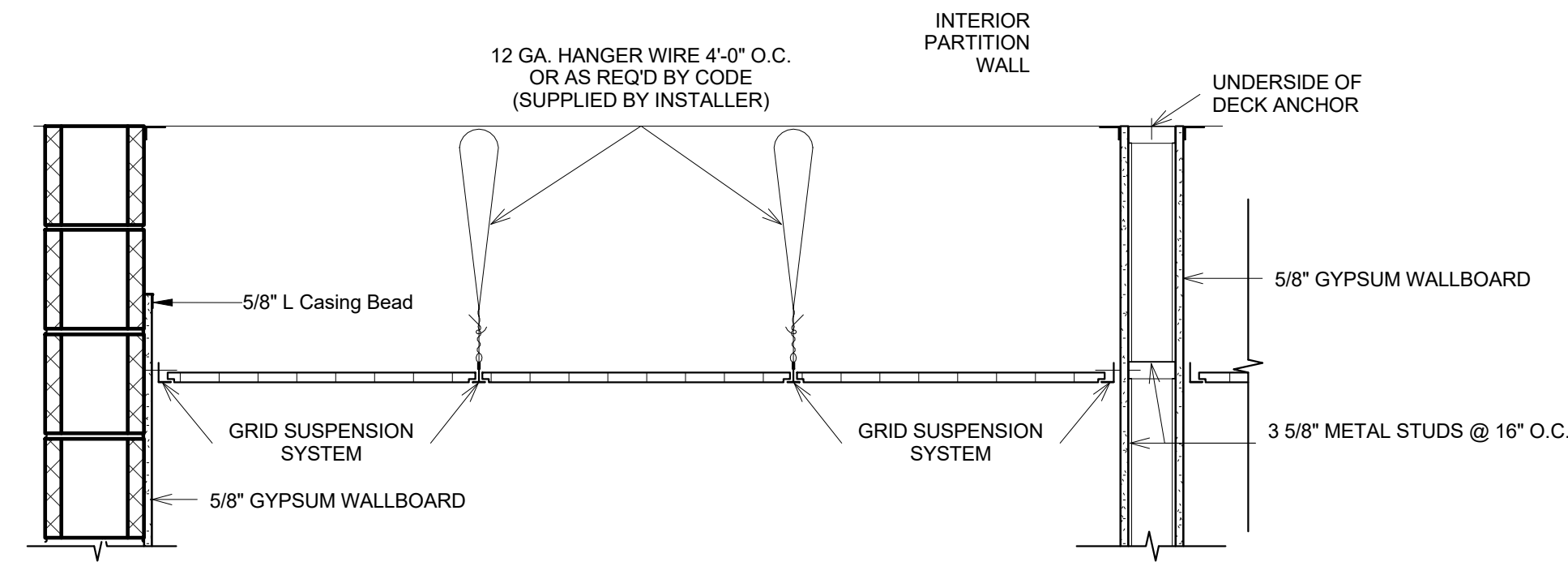
SIGNATURE AND DATED SEAL

CONSULTANTS

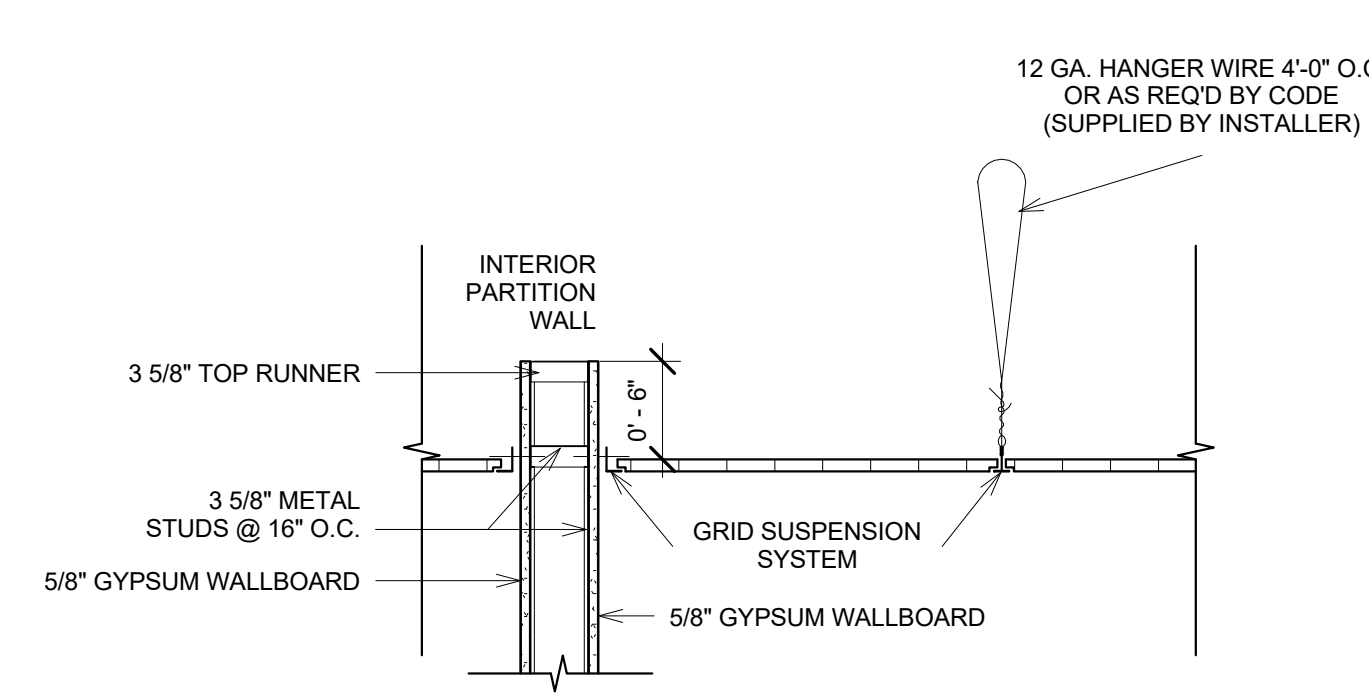
SHEET TITLE  
REFLECTED CEILING PLAN

PROJECT No.	17-147	DATE	12.12.18
PHASE	100% CONSTRUCTION DOCUMENTS		
SCALE	1/8" = 1'-0"		
DRAWN BY	RP		
CHECKED BY	JLM		
DATE	10.4.18		

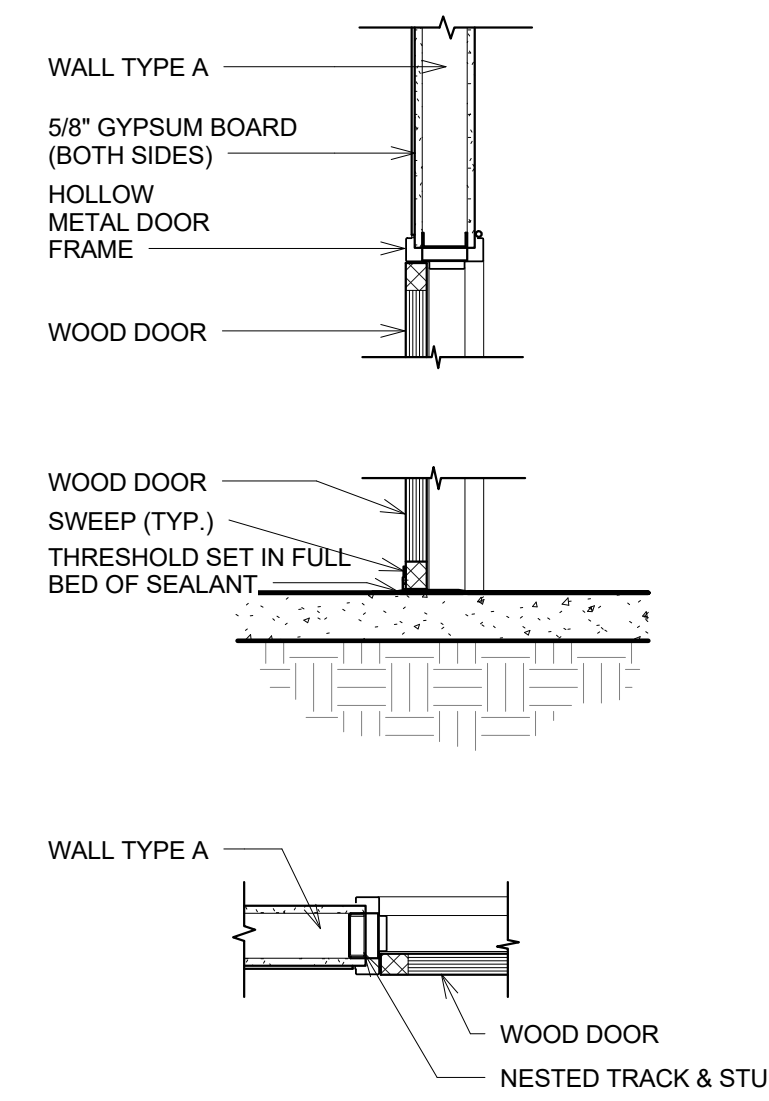
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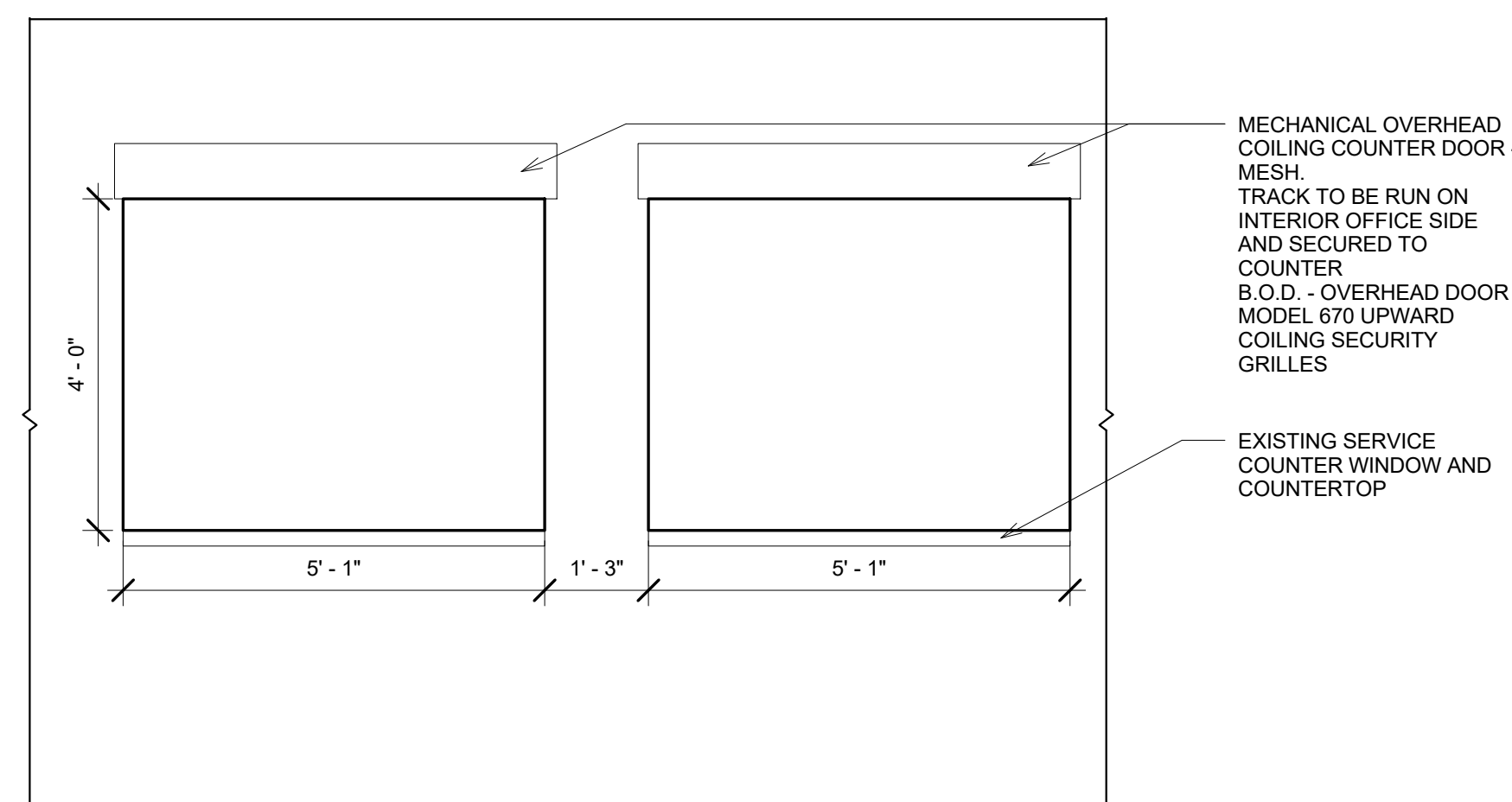
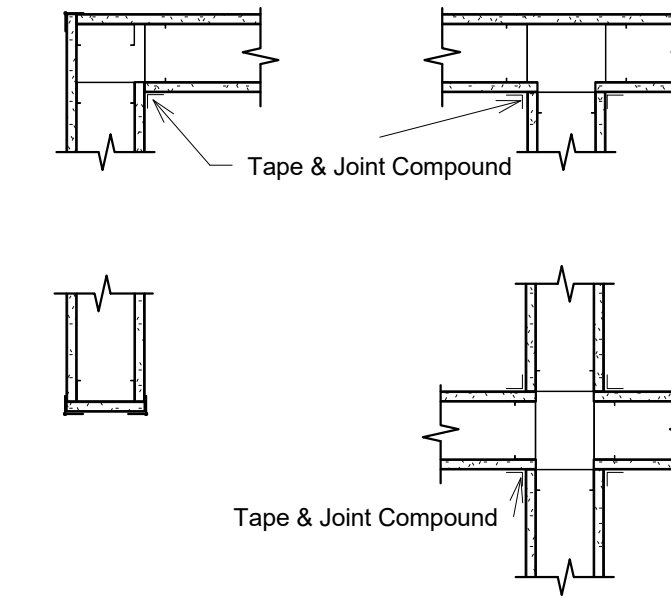
1 CEILING DETAILS  
1" = 1'-0"



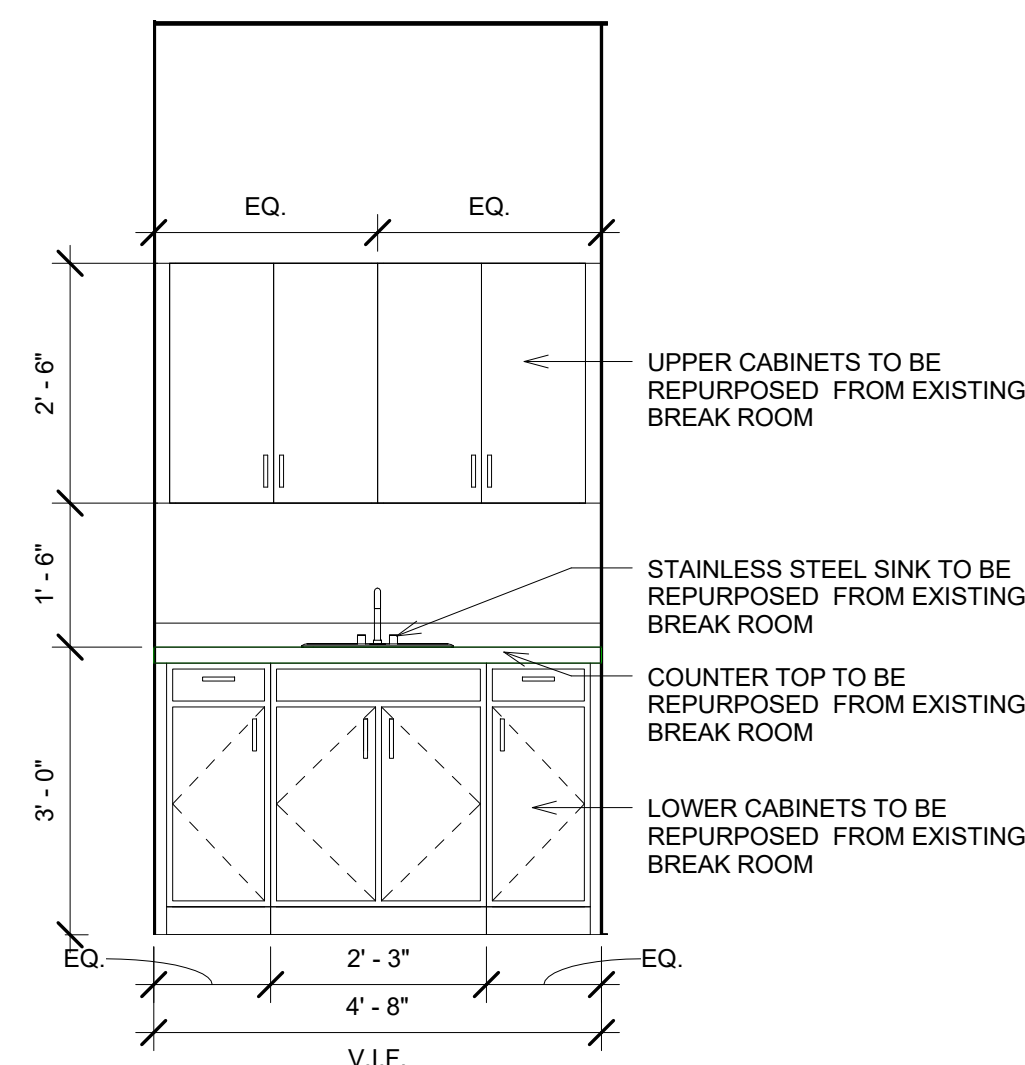
3 DOOR DETAILS  
3/4" = 1'-0"



2 METAL STUD & GYPSUM BOARD  
CORNER & END CONDITIONS  
1" = 1'-0"



4 HELP DESK COUNTER ELEVATION  
1/2" = 1'-0"



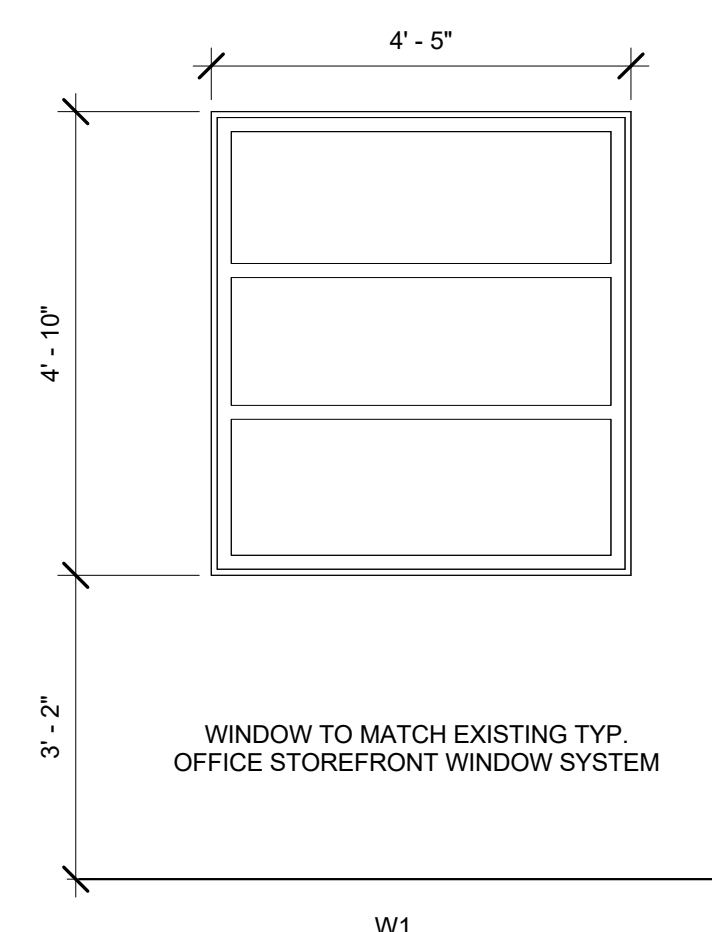
5 BREAK RM. MILLWORK ELEVATION  
1/2" = 1'-0"

EXISTING MILLWORK TO BE REPURPOSED AND RECONFIGURED. SHOULD THIS NOT FIT WITHIN THE CONFINES OF THE ALLOCATED AREA - CONTRACTOR SHALL PROVIDE NEW MILLWORK WITH FINISHES SELECTED BY OWNER.

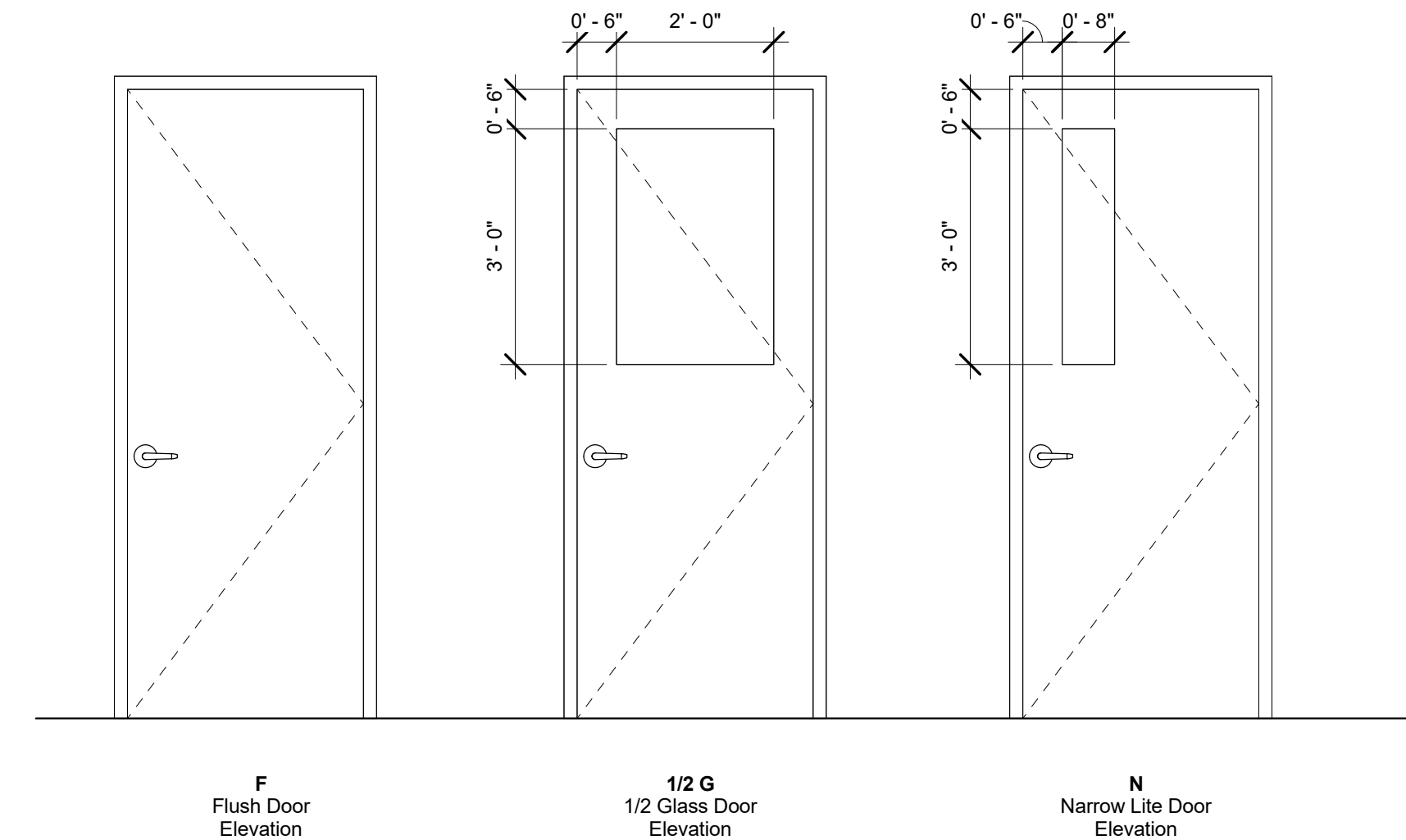
Mark	Door Schedule										Name Type	Hardware Set	Remarks
	Type	Door Material	Door			Frame Material	Frame			Details			
			Width	Height	Thickness		Jamb	Head	Saddle				
77	N	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Narrow Lite	MATCH EXISTING	MATCH EXISTING FINISH	
79	F	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Flush	MATCH EXISTING	MATCH EXISTING FINISH	
83	F	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Flush	MATCH EXISTING	MATCH EXISTING FINISH	
86	1/2 G	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Half Glass	MATCH EXISTING	MATCH EXISTING FINISH	
87	1/2 G	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Half Glass	MATCH EXISTING	MATCH EXISTING FINISH	
88	1/2 G	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Half Glass	MATCH EXISTING	MATCH EXISTING FINISH	
108	N	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Narrow Lite	MATCH EXISTING	MATCH EXISTING FINISH	
111	N	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Narrow Lite	MATCH EXISTING	MATCH EXISTING FINISH	
117	N	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Narrow Lite	MATCH EXISTING	MATCH EXISTING FINISH	
125	F	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Flush	MATCH EXISTING	MATCH EXISTING FINISH	
126	1/2 G	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Half Glass	MATCH EXISTING	MATCH EXISTING FINISH	
127A	N	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Narrow Lite	MATCH EXISTING	MATCH EXISTING FINISH	
127B	N	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Narrow Lite	MATCH EXISTING	MATCH EXISTING FINISH	
128	1/2 G	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Half Glass	MATCH EXISTING	MATCH EXISTING FINISH	
129	1/2 G	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Half Glass	MATCH EXISTING	MATCH EXISTING FINISH	
131	1/2 G	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Half Glass	MATCH EXISTING	MATCH EXISTING FINISH	
132	N	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Narrow Lite	MATCH EXISTING	MATCH EXISTING FINISH	
135	N	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Narrow Lite	MATCH EXISTING	MATCH EXISTING FINISH	
137	1/2 G	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Half Glass	MATCH EXISTING	MATCH EXISTING FINISH	
138	1/2 G	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Half Glass	MATCH EXISTING	MATCH EXISTING FINISH	
147	F	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Flush	MATCH EXISTING	MATCH EXISTING FINISH	
172	N	WOOD	3' - 0"	8' - 0"	0' - 1 3/4"	H.M.	3/A501	3/A501	3/A501	Narrow Lite	MATCH EXISTING	MATCH EXISTING FINISH	

\*\*\*DEMO DOORS AND HARDWARE ARE TO BE RE-USED IN DESIGN WITH PROPER TYPE. ADD VISION KIT WHEN NECESSARY. CONTRACTOR TO REVIEW FINAL COUNT OF RE-USABLE DOORS W/ CLIENT FOR LOCATIONS.

Phase Created	Type Mark	Window Schedule										Remarks
		Type	Window		Location	Frame			Details			
			Height	Width		Frame Material	Head	Jamb		Sill		
New Construction	W1	Fixed	4' - 10"	4' - 5"	7' - 10"	HM						RELOCATE FROM SDU SMALL CONF. AND TO RECEIVE BLINDS



Window Elevations  
1/2" = 1'-0"



DOOR ELEVATIONS  
1/2" = 1'-0"

OC SHERIFF'S OFFICE IT SERVICES RENOVATION

**BORRELLI + PARTNERS**  
ARCHITECTURE PLANNING LANDSCAPE INTERIORS

720 Vassar Street, Orlando FL 32804  
407.418.1338 :: fax 407.418.1342

CONTRACTOR: THE REMODELERS OF ORLANDO, INC. 1710/2019-40534.PW

SIGNATURE AND DATED SEAL

CONSULTANTS

ELEVATIONS, DETAILS & SCHEDULES

SHEET TITLE

PROJECT ADDRESS  
2500 West Colonial Dr  
Orlando, Florida

OWNER NAME AND ADDRESS  
Orange County Sheriff's Office

REV. I. DESCRIPTION DATE

1 Permit 12.12.18

Comments

PROJECT No. 17-147

PHASE 100% CONSTRUCTION DOCUMENTS

SCALE As indicated

DRAWN BY RP

CHECKED BY JLM

DATE 10.4.18

**A501**  
OF

**HVAC GENERAL NOTES**

HVAC SYMBOL LEGEND		
24x12	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
R	DUCT RISE	THERMOMETER
D	DUCT DOWN	PRESSURE GAUGE
SA	DUCT UNDER POSITIVE PRESSURE	UNION OR FLANGE
RA EA	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 EHD	AUTOMATIC AIR VENT
	BOTTOM MOUNTED EHD	3/4" HOSE END DRAIN PIPE
FS	FIRE DAMPER	CHILLED WATER SUPPLY
SW	SMOKE DAMPER	CHWR CHILLED WATER SUPPLY
S/F	SMOKE AND FIRE DAMPER	HWS HOT WATER SUPPLY
VD	VOLUME DAMPER	HWR HOT WATER RETURN
RVD	REMOTE VOLUME DAMPER	RHG REFRIGERANT HOT GAS
MD	MOTORIZED DAMPER	RL REFRIGERANT LIQUID
BDD	BACKDRAFT DAMPER	RS REFRIGERANT SUCTION
	SMOKE DETECTOR (DUCT MOUNTED)	D CONDENSATE DRAIN
AD	CEILING ACCESS DOOR	PIPE ELBOW DOWN
AD	DUCT ACCESS DOOR	PIPE ELBOW UP
H	HUMIDITY SENSOR	PIPE ELBOW
S	ROOM SENSOR	PIPE TEE DOWN
T	THERMOSTAT	PIPE TEE UP
		ROUND

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	KSU	KITCHEN AIR SUPPLY UNIT
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	MAU	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
EHD	ELECTRIC HEATER, DUCT	PH	PHASE
EHU	ELECTRIC UNIT HEATER	RG	RETURN AIR GRILLE
EHW	ELECTRIC HEATER, WALL	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
EFG	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
		W/	WITH

- 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 CITY OF ORLANDO BUILDING DEPARTMENT REQUIREMENTS AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- REFER TO ARCHITECTURAL DRAWINGS FOR CLEARANCES WITHIN THE CEILING SPACE, MECHANICAL ROOMS, LOCATIONS AND SIZES OF BEAMS AND CEILING AND SOFFIT HEIGHTS.
- DUCTWORK AND EQUIPMENT LOCATIONS AND CLEARANCES SHALL BE COORDINATED WITH GENERAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL CONTRACTORS. REFER TO ARCHITECTURAL PLANS FOR BUILDING SECTIONS AND DETAILS.
- CONNECTION TO ALL EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURERS CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR ALL EQUIPMENT FURNISHED.
- COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATION WITH LIGHTING, SPRINKLER AND ARCHITECTURAL CEILING PLANS. ALSO COORDINATE THE TYPE OF DIFFUSER FRAME WITH THE CEILING TYPE.
- ALL EQUIPMENT SHALL BE PROPERLY SUPPORTED AND ISOLATED TO PREVENT NOISE AND VIBRATION TRANSMISSION. ALL AIR HANDLING EQUIPMENT SHALL BE SUPPORTED OR SUSPENDED WITH SPRING VIBRATION ISOLATORS PADS. ALL CONNECTIONS BETWEEN AIR HANDLING EQUIPMENT AND DUCTWORK SHALL BE CANVAS FLEXIBLE CONNECTORS.
- ALL MECHANICAL EQUIPMENT SHALL BE LOCATED WITH RESPECT TO BUILDING CONSTRUCTION AND OTHER EQUIPMENT SO AS TO PERMIT ACCESS TO THE MECHANICAL EQUIPMENT IN CONFORMITY WITH ANY CLEARANCE WHICH MAY BE RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT. SUFFICIENT CLEARANCE SHALL BE MAINTAINED FOR CLEANING COILS, MOTORS, BURNERS, AS WELL AS CHANGING FILTERS. ALL EQUIPMENT SHALL BE LOCATED WITHIN THE MECHANICAL ROOM AND CEILING SPACES WITH ADEQUATE CLEARANCES FOR REPAIR AND MAINTENANCE. ALL PIPING AND DUCTWORK SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT. INSTALLATION OF ALL MECHANICAL EQUIPMENT SHALL COMPLY WITH THE MANUFACTURERS SPECIFICATION AND CLEARANCE REQUIREMENT.
- ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
- THE INSIDE OF ALL DUCTS VISIBLE THRU THE FACE OF DIFFUSERS, REGISTERS, AND GRILLES SHALL BE PAINTED FLAT BLACK WITH NON TOXIC PAINT.
- ALL SUPPLY AIR, RETURN AIR, OUTSIDE AIR AND EXHAUST AIR DUCTWORK SHALL BE GALVANIZED STEEL SHEETS. FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS FOR A 2 INCH PRESSURE CLASSIFICATION.
- FLEXIBLE DUCTWORK SHALL BE INSULATED VINYL TYPE (R-6) WITH WIRE SPIRAL SUPPORT. FLEXIBLE DUCTWORK SHALL BE RUN IN MAXIMUM LENGTHS OF 12'-0". FLEXIBLE DUCTWORK SHALL BE PROPERLY SUPPORTED WITH GALVANIZED STEEL STRAPS 2" WIDE AND SHALL BE RUN AS STRAIGHT AS POSSIBLE WITH NO KINKS OR BENDS TO RESTRICT AIRFLOW.
- ALL FLEXIBLE BRANCH DUCTS SERVING INDIVIDUAL REGISTERS, GRILLES AND DIFFUSERS SHALL HAVE MANUAL LOCKABLE BALANCING DAMPERS AT THE CONNECTION TO THE MAIN TRUNK DUCT. CONNECTIONS OF THE FLEXIBLE DUCT SHALL BE MADE WITH A TAPERED FITTING (CROWN) OR A BELLMOUTH FITTING (BUCKLEY).
- ALL DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 2.2" THICK (R-6.0) FIBERGLASS BLANKET INSULATION WITH FOIL JACKETING UNLESS OTHERWISE NOTED. INSULATION R VALUE IS WITH 25% COMPRESSION IN ACCORDANCE WITH FBCM 604.7 IDENTIFICATION.
- ALL DUCT JOINTS SHALL BE SEALED WITH APPROVED MASTIC.
- ALL FIBROUS GLASS INSULATION JOINTS, SEAMS AND CONNECTIONS SHALL BE CONSTRUCTED WITH PRESSURE SENSITIVE TAPE, FAB, STAINLESS STEEL STAPLES AND THEN SEALED WITH MASTIC. HEAT AND PRESSURE SENSITIVE TAPE ARE NOT ACCEPTABLE AS A FINAL CLOSURE.
- 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.
- ALL FLEXIBLE AND RIGID DUCT BRANCH TAKE OFFS FROM MAIN DUCT FOR INDIVIDUAL AIR OUTLETS, INLETS AND BOXES SHALL HAVE BALANCING DAMPERS.
- ALL DUCTWORK STORED ON SITE OR ALREADY INSTALLED SHALL HAVE ALL OPEN ENDS SEALED WITH VISQUEINE TO PREVENT DUST AND DEBRIS FROM ACCUMULATING INSIDE OF THE DUCTWORK. INTERIORS OF ALL DUCTWORK SHALL BE THOROUGHLY CLEANED PRIOR TO INSTALLATION.
- ALL DAMPERS AND EXTRACTORS SHALL HAVE LOCKING QUADRANTS AND SHALL BE ACCESSIBLE.
- BEVELED TAKE OFFS AND DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCTWORK LEADING FROM MAIN TRUNK LINES.
- ALL EQUIPMENT LOCATED WITHIN THE CEILING SPACES SHALL HAVE ADEQUATE CLEARANCES FOR REPAIR AND MAINTENANCE. ALL PIPING AND DUCTWORK SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT.
- ALL REGISTERS, GRILLES AND DIFFUSERS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF NOT OVER 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF NOT OVER 50 AND SHALL BE IN COMPLIANCE WITH SECTIONS 603.15 AND 603.15.1 OF THE 2010 FLORIDA MECHANICAL CODE - LATEST EDITION.

- 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.
- ALL WALL SENSORS, VARIABLE SPEED CONTROL SWITCHES, ON-OFF SWITCHES AND MOTOR STARTERS SHALL BE INDIVIDUALLY LABELED. LABELS SHALL INDICATE 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.
- COORDINATE ALL CONTROL DEVICES WITH THE ELECTRICAL CONTRACTOR.
- ALL CONTROL WIRING, CONDUIT AND HARDWARE TO COMPLETE THE HVAC CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 15 - MECHANICAL.
- ALL CONTROL WIRING AND INTERLOCK WIRING LOCATED IN MECHANICAL ROOMS AND IN NON ACCESSIBLE CEILINGS SHALL BE IN CONDUIT.
- THERMOSTAT LOCATIONS ARE TENTATIVE. FINAL THERMOSTAT LOCATIONS SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION. THERMOSTATS SHALL BE LOCATED 48"-54" ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS AND THE 2010 FLORIDA ACCESSIBILITY CODE.
- THE AIRFLOW OF ALL NEW HVAC SYSTEMS (AIR CONDITIONING AND VENTILATION SYSTEMS) OR EXISTING HVAC SYSTEM IN SPACES TO BE RENOVATED 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.
- THE CONTRACTOR SHALL HIRE AN INDEPENDENT TEST AND BALANCE FIRM TO TEST AND BALANCE ALL AIR CONDITIONING SYSTEMS-SEE SPECIFICATIONS. THE TEST & BALANCE CONTRACTOR SHALL BE CERTIFIED BY NEBB OR ABA.
- 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.
- CONTRACTOR SHALL LABEL ALL EQUIPMENT (FANS, AIR HANDLING UNITS AND CONDENSING UNITS) WITH ENGRAVED TYPE PHENOLIC LABELS PERMANENTLY AFFIXED TO THE EQUIPMENT. CONTRACTOR SHALL INSTALL ADDITIONAL PHENOLIC LABEL TO THE CEILING GRID TEE BELOW ANY CEILING MOUNTED EQUIPMENT LOCATED ABOVE ACOUSTICAL LAY-IN CEILINGS OR TO THE CEILING ACCESS PANEL LOCATED BELOW ANY CEILING MOUNTED EQUIPMENT LOCATED ABOVE GYPSUM BOARD CEILINGS.
- 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 AT NO EXPENSE TO THE OWNER.
- OPERATION AND MAINTENANCE MANUALS SHALL INCLUDE AS A SEPARATE SUBMITTAL ITEM. PREVENTATIVE MAINTENANCE REQUIREMENTS ALONG WITH THE 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.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED PERMITS.
- THE CONTRACTOR SHALL PREPARE REDLINED AS-BUILT DRAWINGS OF THE 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.
- PRIOR TO ORDERING ANY HVAC EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, PIPING ETC. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL FROM THE ENGINEER.
- 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.

**HVAC SCOPE OF WORK**

- PROVIDE NEW SINGLE DUCT VARIABLE VOLUME TERMINAL UNIT VAV-3.24 FOR NEW CONFERENCE ROOM #79. PROVIDE NEW SUPPLY AIR DUCTWORK AND CEILING DIFFUSERS CONNECTED TO NEW VAV BOX. CONNECT NEW VAV BOX TO EXISTING MAIN SUPPLY AIR DUCTWORK. PROVIDE NEW DDC CONTROLS (TRANE) FOR NEW VAV BOX INCLUDING NEW VAV BOX CONTROLLER, THERMOSTAT AND GRAPHIC SOFTWARE.
- PROVIDE NEW CEILING SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLES FOR VARIOUS RENOVATED SPACES. SEE FLOOR PLANS. PROVIDE NEW FLEXIBLE DUCT CONNECTIONS FROM NEW DIFFUSERS OR GRILLES AND CONNECT TO EXISTING MAIN DUCTWORK ABOVE THE CEILING. PROVIDE NEW DUCTWORK TAKE-OFFS (SUPPLY OR RETURN) WITH VOLUME DAMPERS WHERE INDICATED ON FLOOR PLANS.
- TEST AND BALANCE EXISTING AIR HANDLING UNIT AHU-3. TEST AND BALANCE ALL ASSOCIATED FAN TERMINAL UNITS (FTU) AND VARIABLE VOLUME BOXES (VAV) ASSOCIATED WITH EXISTING AHU-3. TEST AND BALANCE ALL CEILING SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLES FOR THE RENOVATED AND EXISTING SPACES SERVED BY EXISTING AIR HANDLING UNIT AHU-3.
- CONTRACTOR TO PROTECT EXISTING BUILDING SURFACES (WALLS, FLOORS, CEILINGS AND DOORS) TO REMAIN THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR OR REPLACE AND DAMAGED SURFACES AS REQUIRED BY THE OWNER AT THEIR OWN EXPENSE.
- CONTRACTOR TO COORDINATE WITH THE OWNER FOR WORKING HOURS AND BUILDING ACCESS.

**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

OC SHERIFFS OFFICE IT SERVICES RENOVATION

**BORBELL PARTNERS**  
ARCHITECTURE, PLANNING, LANDSCAPE INTERIOR  
770 VASSAR STREET  
ORLANDO, FL 32804 (407) 418-1338  
CONTRACTING: THE BUILDING CENTER OF ORLANDO, A PROFESSIONAL SERVICE CORPORATION  
1000 W. COLONY BLVD., SUITE 100  
ORLANDO, FL 32809  
E-MAIL: INFO@BORBELLPARTNERS.COM  
WWW.BORBELLPARTNERS.COM

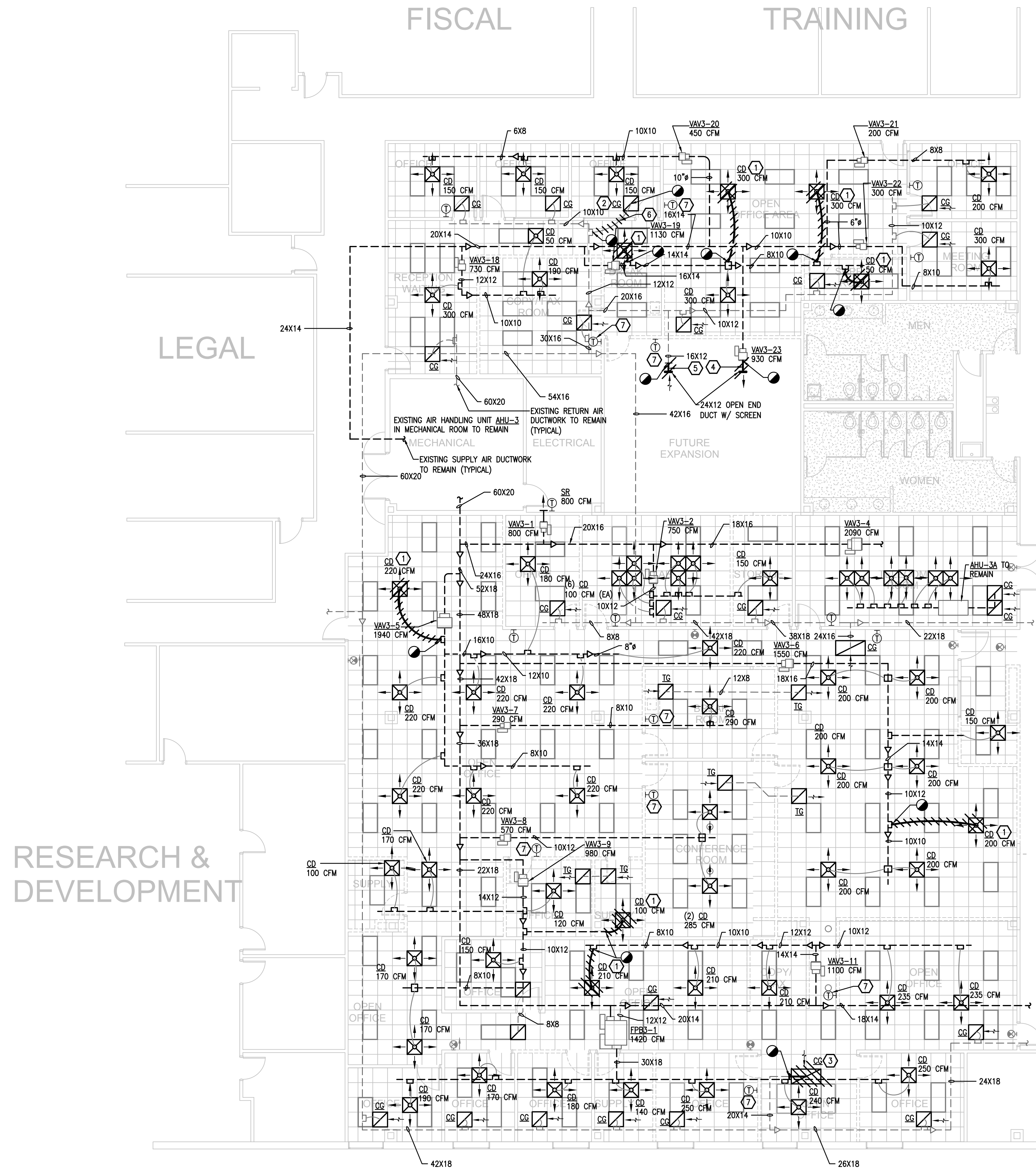
**BOBES ASSOCIATES**  
CONSULTING ENGINEERS  
1111 ORANGE AVENUE, SUITE 200  
ORLANDO, FL 32839  
TEL: (407) 242-1100  
FAX: (407) 242-1101  
E-MAIL: INFO@BOBES.COM  
WWW.BOBES.COM  
FLORIDA LICENSE NO. 1313

**OC SHERIFFS IT SERVICES**  
HVAC GENERAL NOTES & SYMBOLS

PROJECT ADDRESS: 2300 West Colonial Drive, Orlando, Florida  
OWNER NAME AND ADDRESS: Orange County Sheriff's Office

REV.	DESCRIPTION	DATE	PROJECT NO.	DATE
17-147	1800 CONSTRUCTION DOCS AS NOTED			

M001

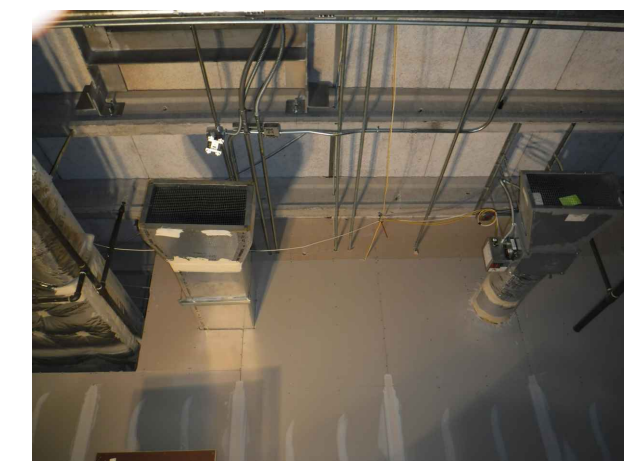


**HVAC KEY NOTES - DEMOLITION**

- 1 REMOVE EXISTING 2'X2' CEILING SUPPLY AIR DIFFUSER AND CONNECTING FLEXIBLE DUCTWORK BACK TO EXISTING TAKE-OFF AT MAIN DUCT. TEMPORARILY CAP REMAINING END OF DUCTWORK. PERMANENTLY CAP AND INSULATE DUCT TAKE-OFF IF TAKE-OFF IS NOT BEING REUSED.
- 2 REMOVE EXISTING 2'X2' CEILING RETURN AIR GRILLE AND CONNECTING FLEXIBLE DUCTWORK BACK TO EXISTING TAKE-OFF AT MAIN DUCT. TEMPORARILY CAP REMAINING END OF DUCTWORK. PERMANENTLY CAP AND INSULATE DUCT TAKE-OFF IF TAKE-OFF IS NOT BEING REUSED.
- 3 REMOVE EXISTING 2'X4' CEILING RETURN AIR GRILLE AND SAVE FOR REUSE. REMOVE CONNECTING DUCTWORK BACK TO EXISTING TAKE-OFF. TEMPORARILY CAP REMAINING END OF DUCTWORK.
- 4 REMOVE EXISTING S.A. DUCTWORK TO EXISTING VAV BOX.
- 5 REMOVE EXISTING DUCT SCREEN ON R.A. MAIN.
- 6 REMOVE EXISTING FLEXIBLE DUCT FROM CG TO MAIN RETURN AIR DUCT. TEMPORARILY CAP REMAINING END OF DUCTWORK.
- 7 REMOVE EXISTING WALL THERMOSTAT CONNECTED TO EXISTING VAV BOX AND SAVE FOR REUSE. REMOVE EXISTING CONTROL WIRING. SEE SHEET M-101 FOR NEW LOCATION OF EXISTING THERMOSTAT.

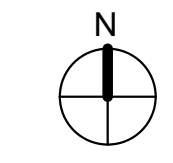
**HVAC DEMOLITION GENERAL NOTES**

1. CONTRACTOR TO PROTECT ALL EXISTING HVAC DUCTWORK, FPB & VAV TERMINAL UNITS, DIFFUSERS AND GRILLES THROUGHOUT CONSTRUCTION, UNLESS OTHERWISE INDICATED.



**EXISTING VAV BOX TO REMAIN. REMOVE CONNECTING SUPPLY AND RETURN AIR DUCT AS INDICATED ON THIS SHEET**

1 DEMOLITION FLOOR PLAN - HVAC  
1/8" = 1'-0"

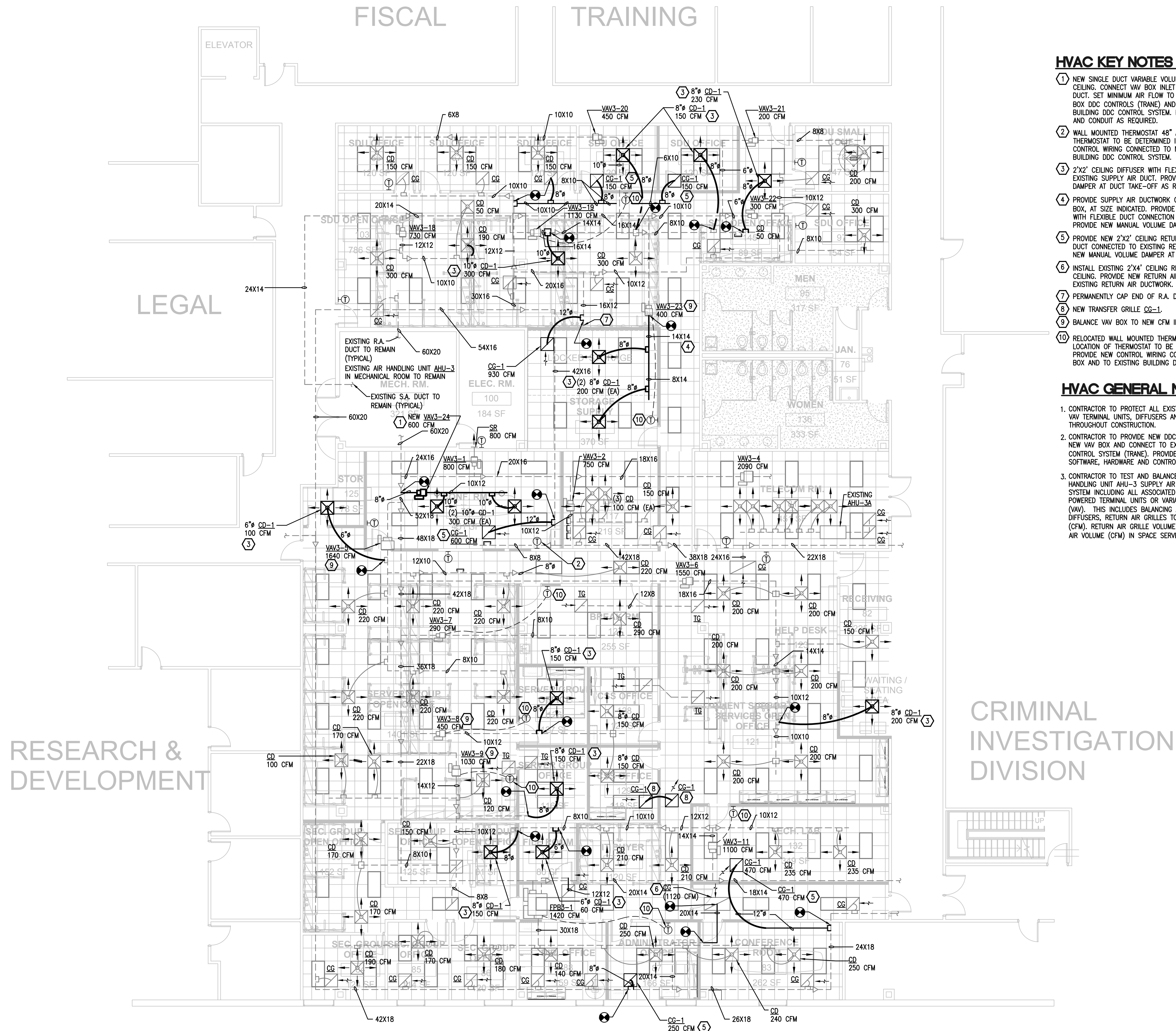


CRIMINAL INVESTIGATION DIVISION

OC SHERIFF'S OFFICE IT SERVICES RENOVATION

<p><b>BORELLI PARTNERS</b> ARCHITECTURE PLANNING LANDSCAPE INTERIOR</p> <p>770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338</p>	<p><b>BOBES ASSOCIATES</b> CONSULTING ENGINEERS</p> <p>1111 ORANGE AVENUE, SUITE 200 ORLANDO, FL 32819 FLORIDA STATE LICENSE NUMBER: 9331</p>	<p>SIGNATURE AND DATED SEAL</p>	
<p>CONSULTANTS</p>			
<p>DRAWING TITLE</p>			
<p>OC SHERIFF'S IT SERVICES DEMOLITION FLOOR PLAN - HVAC</p>			
<p>PROJECT ADDRESS</p> <p>2300 West Colonial Drive Orlando, Florida</p>	<p>OWNER NAME AND ADDRESS</p> <p>Orange County Sheriff's Office</p>		
<p>PROJECT NO.</p> <p>17-147</p>	<p>DATE</p>	<p>DESCRIPTION</p>	
<p>PHASE</p> <p>100% CONSTRUCTION DOC</p>	<p>SCALE</p> <p>AS NOTED</p>	<p>REV.</p>	
<p>FILE NAME</p>	<p>DRAWN BY</p>	<p>CHECKED BY</p>	
<p>DATE</p> <p>10.4.18</p>			

MD101



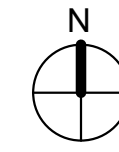
**HVAC KEY NOTES - RENOVATION**

- ① NEW SINGLE DUCT VARIABLE VOLUME TERMINAL UNIT ABOVE THE CEILING. CONNECT VAV BOX INLET TO EXISTING SUPPLY AIR DUCT. SET MINIMUM AIR FLOW TO 120 CFM. PROVIDE NEW VAV BOX DDC CONTROLS (TRANE) AND CONNECT TO EXISTING BUILDING DDC CONTROL SYSTEM. PROVIDE NEW CONTROL WIRING AND CONDUIT AS REQUIRED.
- ② WALL MOUNTED THERMOSTAT 48" A.F.F., EXACT LOCATION OF THERMOSTAT TO BE DETERMINED IN THE FIELD. PROVIDE NEW CONTROL WIRING CONNECTED TO NEW VAV BOX AND TO EXISTING BUILDING DDC CONTROL SYSTEM.
- ③ 2'X2' CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION TO EXISTING SUPPLY AIR DUCT. PROVIDE NEW MANUAL VOLUME DAMPER AT DUCT TAKE-OFF AS REQUIRED.
- ④ PROVIDE SUPPLY AIR DUCTWORK CONNECTED TO EXISTING VAV BOX, AT SIZE INDICATED. PROVIDE NEW 2'X2' CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION TO NEW SUPPLY AIR DUCT. PROVIDE NEW MANUAL VOLUME DAMPER AT DUCT TAKE-OFF
- ⑤ PROVIDE NEW 2'X2' CEILING RETURN AIR GRILLE WITH FLEXIBLE DUCT CONNECTED TO EXISTING RETURN AIR DUCTWORK. PROVIDE NEW MANUAL VOLUME DAMPER AT DUCT TAKE-OFF AS REQUIRED.
- ⑥ INSTALL EXISTING 2'X4' CEILING RETURN AIR GRILLE IN LAY-IN CEILING. PROVIDE NEW RETURN AIR DUCTWORK CONNECTED TO EXISTING RETURN AIR DUCTWORK.
- ⑦ PERMANENTLY CAP END OF R.A. DUCT AND INSULATE.
- ⑧ NEW TRANSFER GRILLE CG-1.
- ⑨ BALANCE VAV BOX TO NEW CFM INDICATED ON PLANS.
- ⑩ RELOCATED WALL MOUNTED THERMOSTAT 48" A.F.F., EXACT LOCATION OF THERMOSTAT TO BE DETERMINED IN THE FIELD. PROVIDE NEW CONTROL WIRING CONNECTED TO EXISTING VAV BOX AND TO EXISTING BUILDING DDC CONTROL SYSTEM.

**HVAC GENERAL NOTES**

1. CONTRACTOR TO PROTECT ALL EXISTING HVAC DUCTWORK, VAV TERMINAL UNITS, DIFFUSERS AND GRILLES THROUGHOUT CONSTRUCTION.
2. CONTRACTOR TO PROVIDE NEW DDC CONTROLS FOR THE NEW VAV BOX AND CONNECT TO EXISTING BUILDING BMS CONTROL SYSTEM (TRANE). PROVIDE ADDITIONAL GRAPHICS, SOFTWARE, HARDWARE AND CONTROL POINTS AS REQUIRED.
3. CONTRACTOR TO TEST AND BALANCE EXISTING AIR HANDLING UNIT AHU-3 SUPPLY AIR AND RETURN AIR DUCT SYSTEM INCLUDING ALL ASSOCIATED EXISTING OR NEW FAN POWERED TERMINAL UNITS OR VARIABLE VOLUME UNITS (VAV). THIS INCLUDES BALANCING ALL CEILING SUPPLY DIFFUSERS, RETURN AIR GRILLES TO AIR FLOWS INDICATED (CFM). RETURN AIR GRILLE VOLUME SHALL MATCH SUPPLY AIR VOLUME (CFM) IN SPACE SERVED IF NOT LISTED.

① RENOVATION FLOOR PLAN - HVAC  
1/8" = 1'-0"



**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

CONSULTANTS  
DRAWING TITLE

REV.	DESCRIPTION	DATE	PROJECT ADDRESS
17-147	100% CONSTRUCTION DOCUMENTS		200 West Colonial Drive Orlando, Florida

FILE NAME	DRAWN BY	CHECKED BY	DATE
AS NOTED	#6	#6	10.4.18

OWNER NAME AND ADDRESS
Orange County Sheriff's Office

SIGNATURE AND DATED SEAL

**M101**

VAV BOX SCHEDULE															
UNIT TAG	AREA SERVED	DESIGN COOLING AIRFLOW (CFM)	MANUFACTURER/ MODEL #	PRIMARY AIR INLET SIZE (IN)	APDO COOLING AIRFLOW IN H2O	COOLING INLET VELOCITY	HEATING AIRFLOW	PRIMARY EDB	UNIT LAT	ELECTRIC HEATER VOLTS	PHASE	HERTZ	ELECTRIC HEATER KW	HEATER STAGES	NOTES
VAV-3-24	CONFERENCE ROOM	600	TRANE VCCF-08 OR EQUAL	8	0.04	-	600	55	-	-	-	-	-	-	1-4

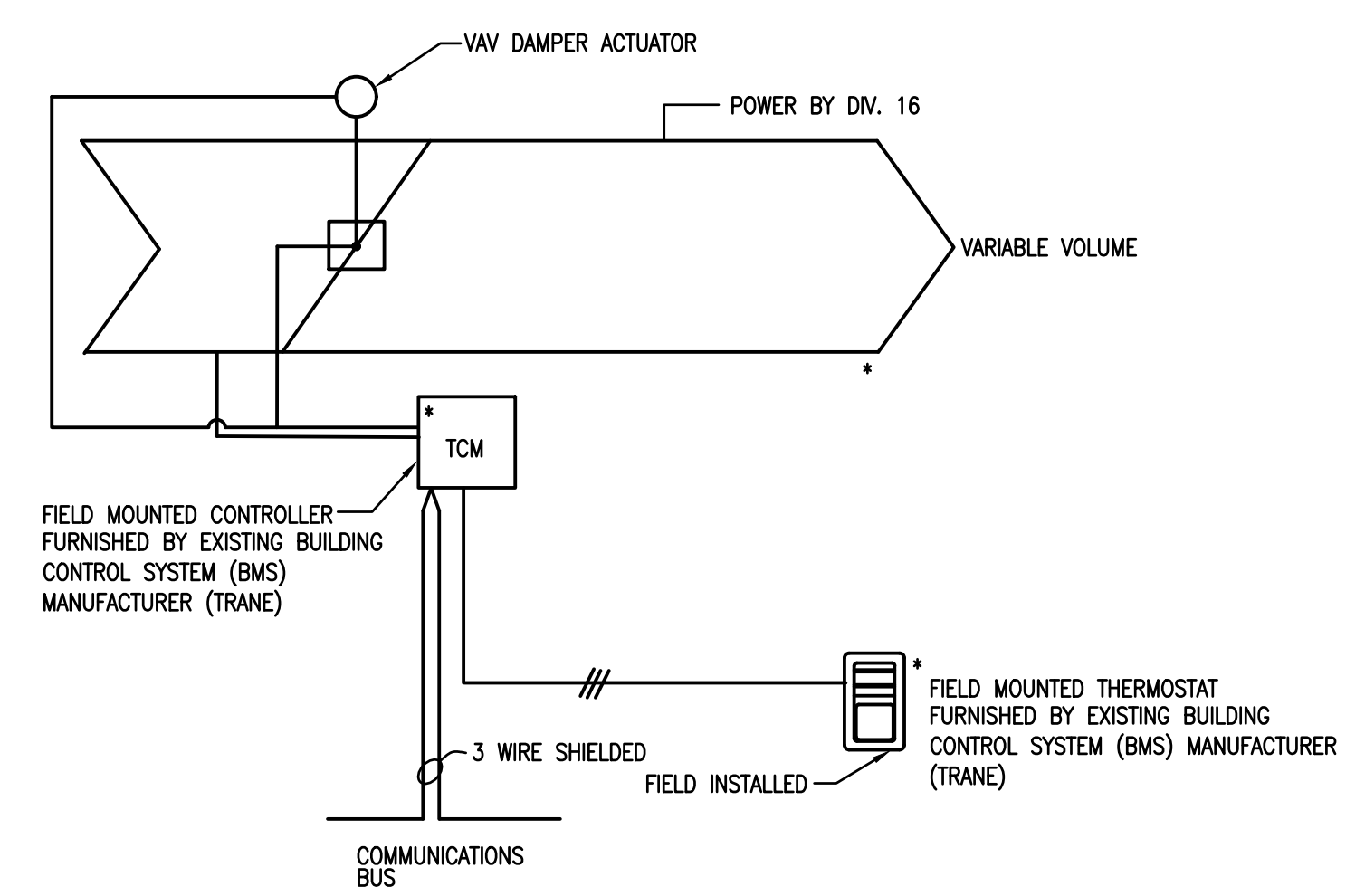
- NOTES**
- FURNISH BOX WITH DDC CONTROLS (TRANE)
  - FURNISH WITH SINGLE POINT ELECTRICAL CONNECTION. DISCONNECT BY ELECTRICAL. FURNISH WITH CONTROL VOLTAGE TRANSFORMER.
  - FURNISH WITH 1" FOIL FACED INSULATION.
  - VAV BOX SHALL HAVE NO HEATING.

DIFFUSER SCHEDULE													
UNIT NUMBER	SERVICE	MOUNT	NECK SIZE	C.F.M. RANGE	N.C. MAX	MAX. P.D. IN. W.G.	PATTERN	DAMPER	FINISH	SURFACE PANEL	CONSTRUCTION	MANUFACTURER/MODEL	NOTES
CD-1	LAY-IN	CLG	SEE DWG	SEE DWG	21	0.063	4-WAY	NO	WHITE	24x24	ALUMINUM	TITUS TMSA OR EQUAL	1

- NOTES**
- ALL GRILLES, REGISTERS AND DIFFUSERS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50 IN COMPLIANCE WITH SECTIONS 603.15 AND 603.15.1 OF THE FLORIDA BUILDING CODE.
  - PROVIDE T-BAR PLASTER FRAME FOR ALL DIFFUSERS LOCATED IN HARD CEILING APPLICATION.
  - PROVIDE FACTORY INSTALLED R-6 INSULATION ON BACK OF DIFFUSER.

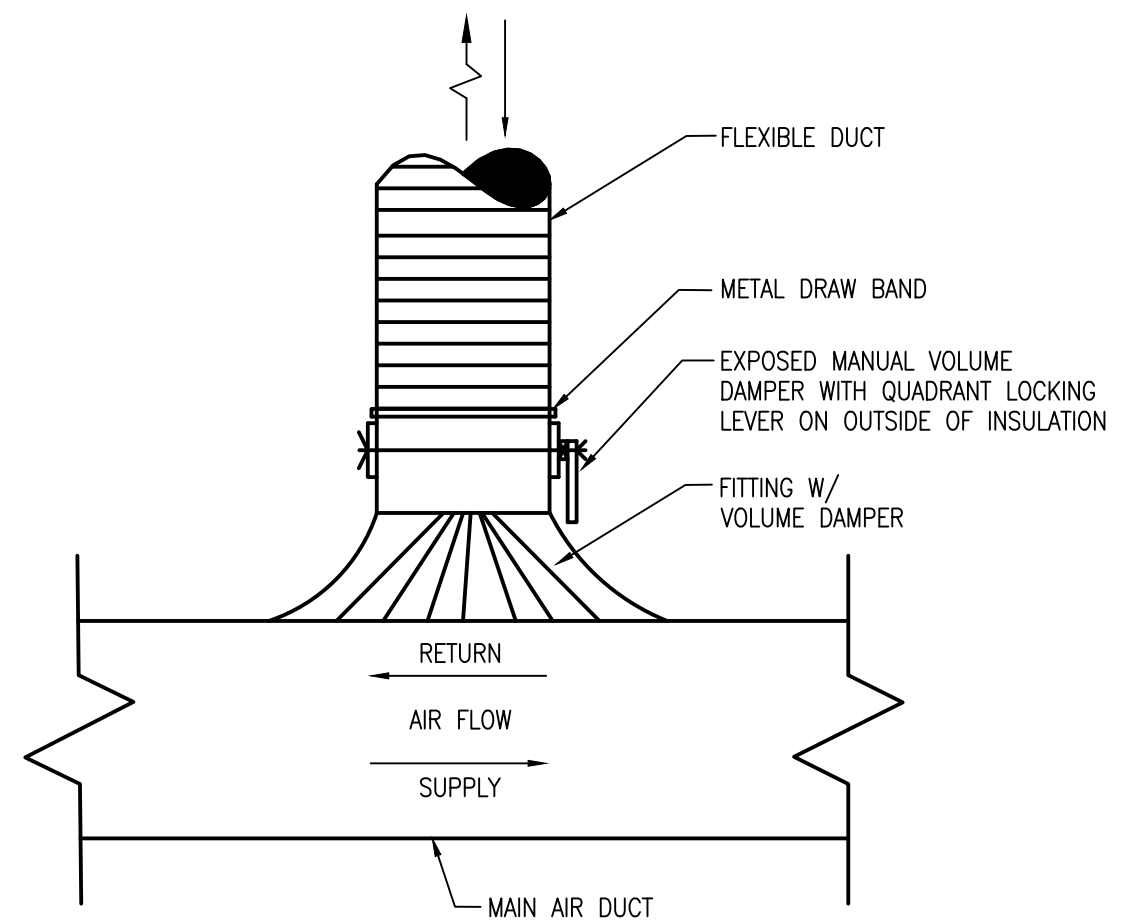
AIR GRILLE + REGISTER SCHEDULE														
UNIT NUMBER	SERVICE	MOUNT	C.F.M. RANGE	SIZE L"xH"	N.C. MAX	FRAME	MAX. P.D. IN. W.G.	PATTERN	DAMPER	GRID	CONSTRUCTION	FINISH	MANUFACTURER/MODEL	NOTES
CG-1	RETURN	CLG	0-1000	24x24	24	LAY-IN	0.054	EGG CRATE	NO	1/2"	ALUMINUM	WHITE	TITUS 50F OR EQUAL	1-3

- NOTES**
- ALL GRILLES, REGISTERS AND DIFFUSERS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50 IN COMPLIANCE WITH SECTIONS 603.15 AND 603.15.1 OF THE 2010 FLORIDA BUILDING CODE.
  - PAINT FLAT BLACK INSIDE OF DUCTS BEHIND GRILLES.
  - PROVIDE T-BAR PLASTER FRAME FOR ALL REGISTERS & GRILLES LOCATED IN HARD CEILING APPLICATION.

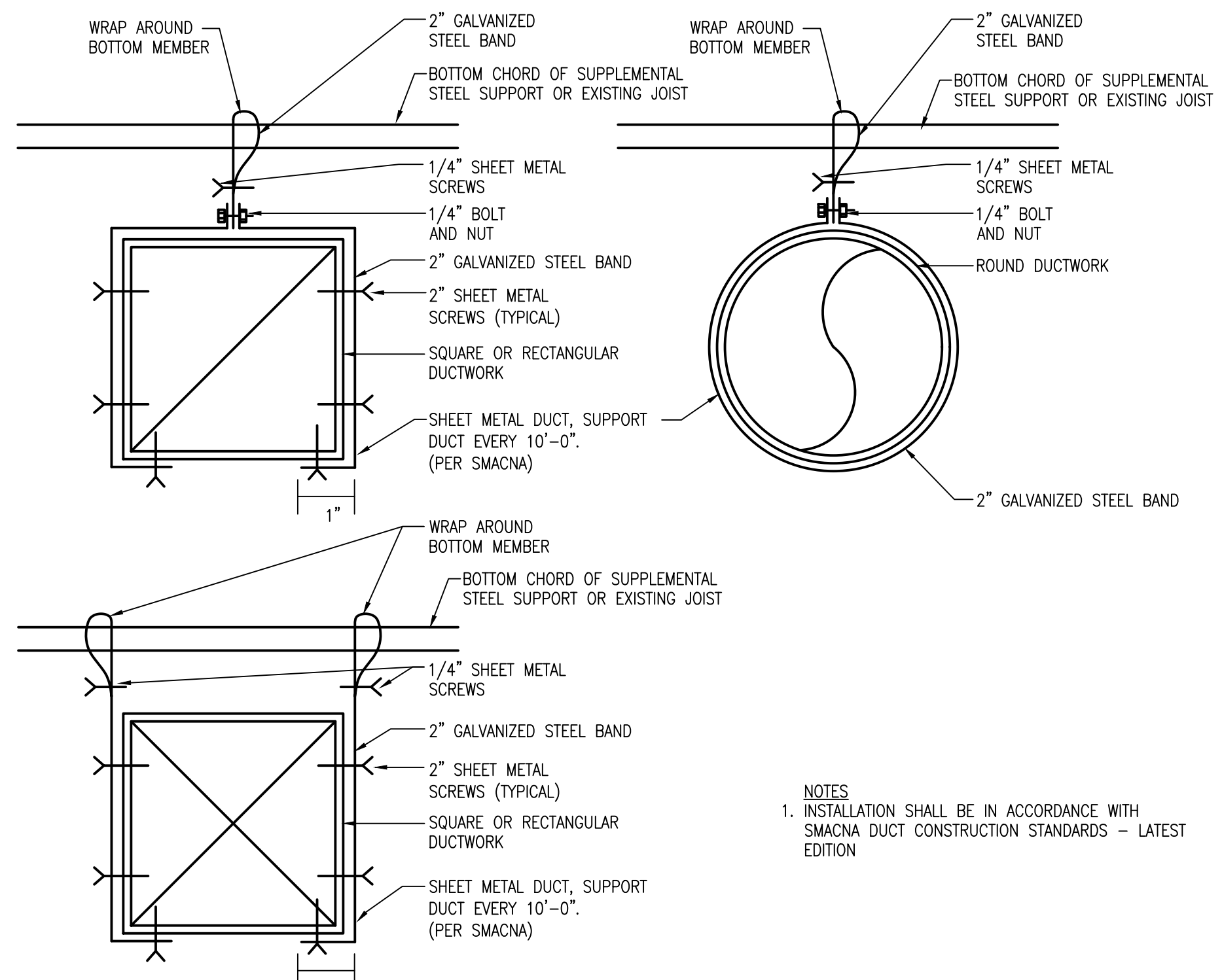


NOTE: VAV BOX SEQUENCE OF OPERATION SHALL MATCH EXISTING VARIABLE VOLUME BOXES' SEQUENCE OF OPERATION. PROVIDE NEW GRAPHICS AS REQUIRED. PROVIDE NEW CONTROL WIRING AS REQUIRED.

**VARIABLE VOLUME BOX (VAV)**  
NOT TO SCALE

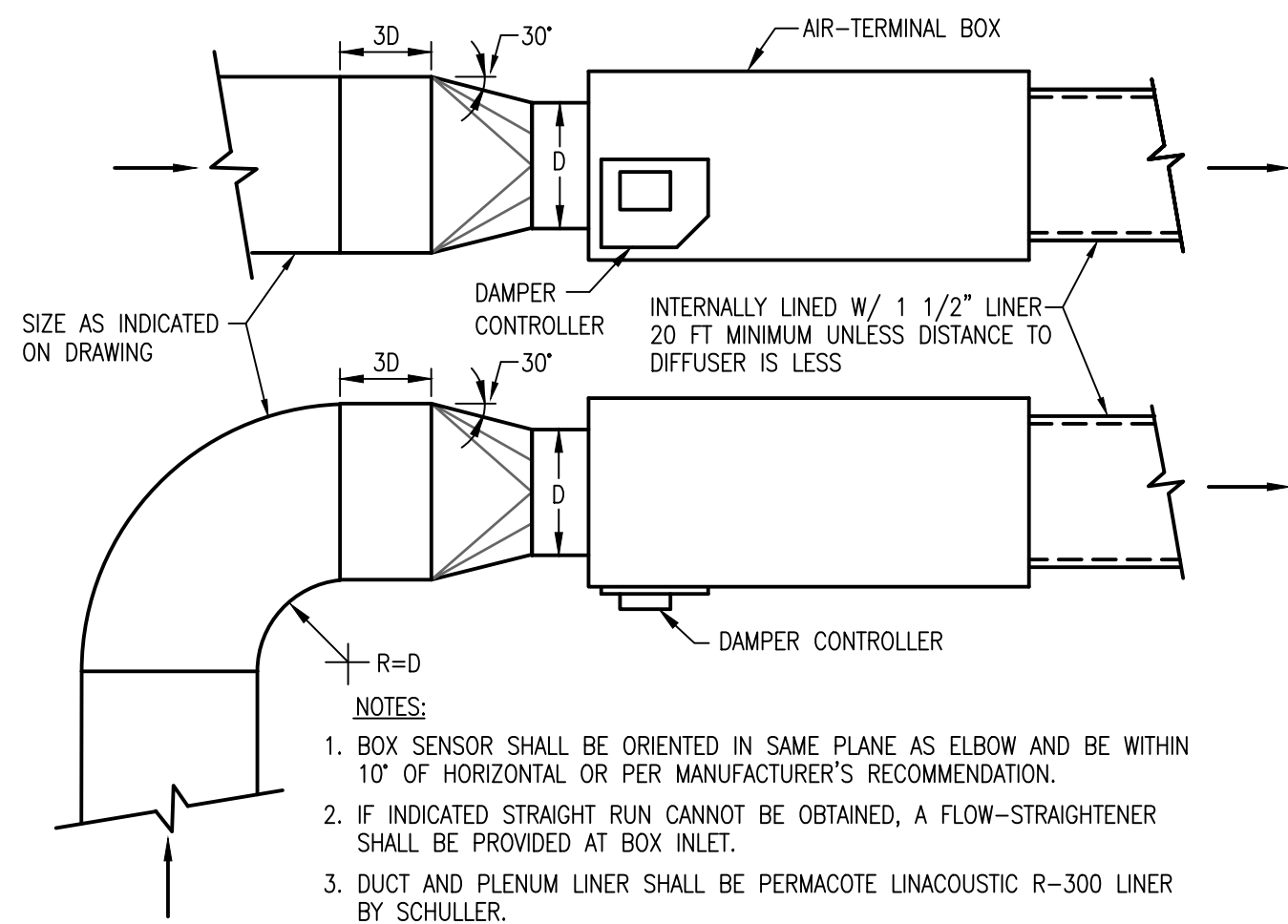


**FLEXIBLE DUCT CONNECTION DETAIL - SUPPLY + RETURN**  
NOT TO SCALE

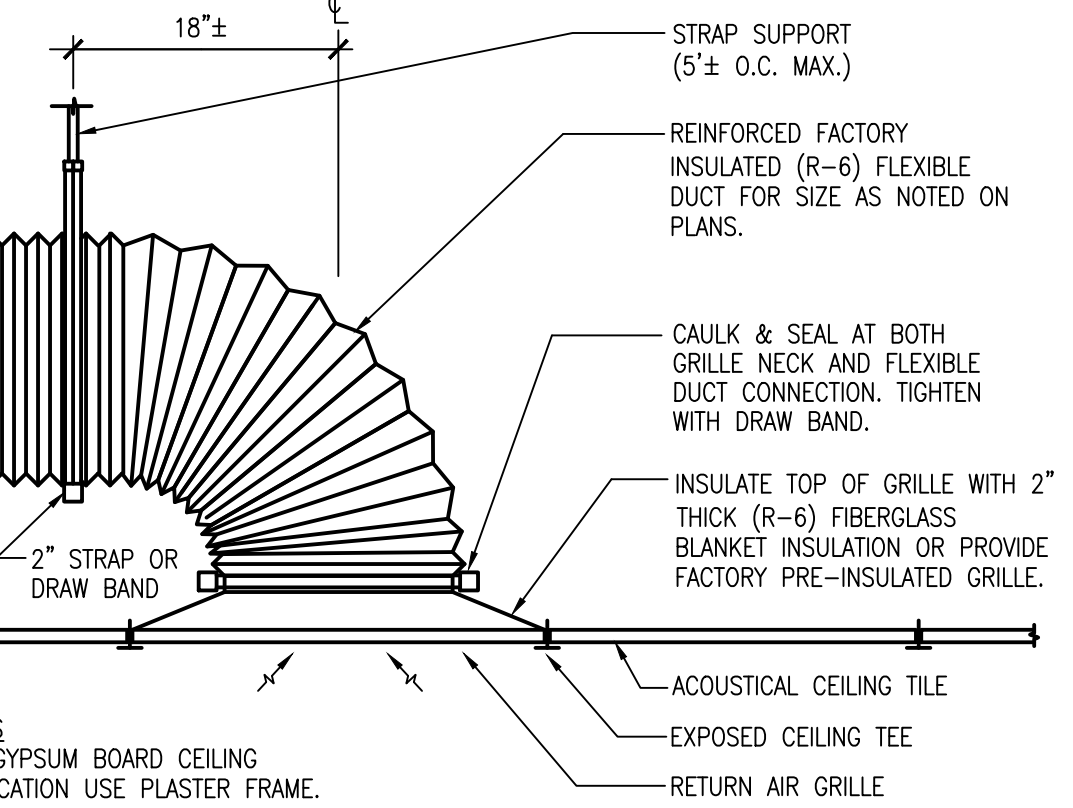


- NOTES**
- INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS - LATEST EDITION

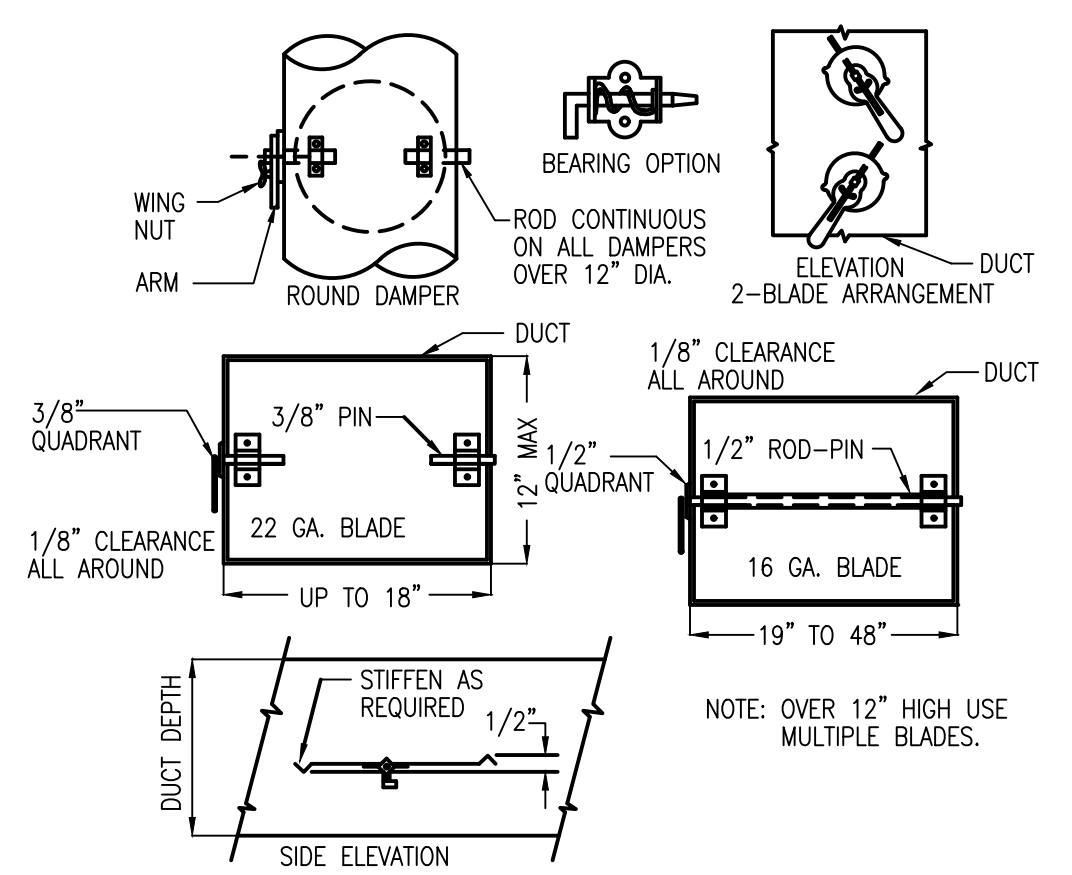
**SHEET METAL DUCT HANGING DETAIL**  
NOT TO SCALE



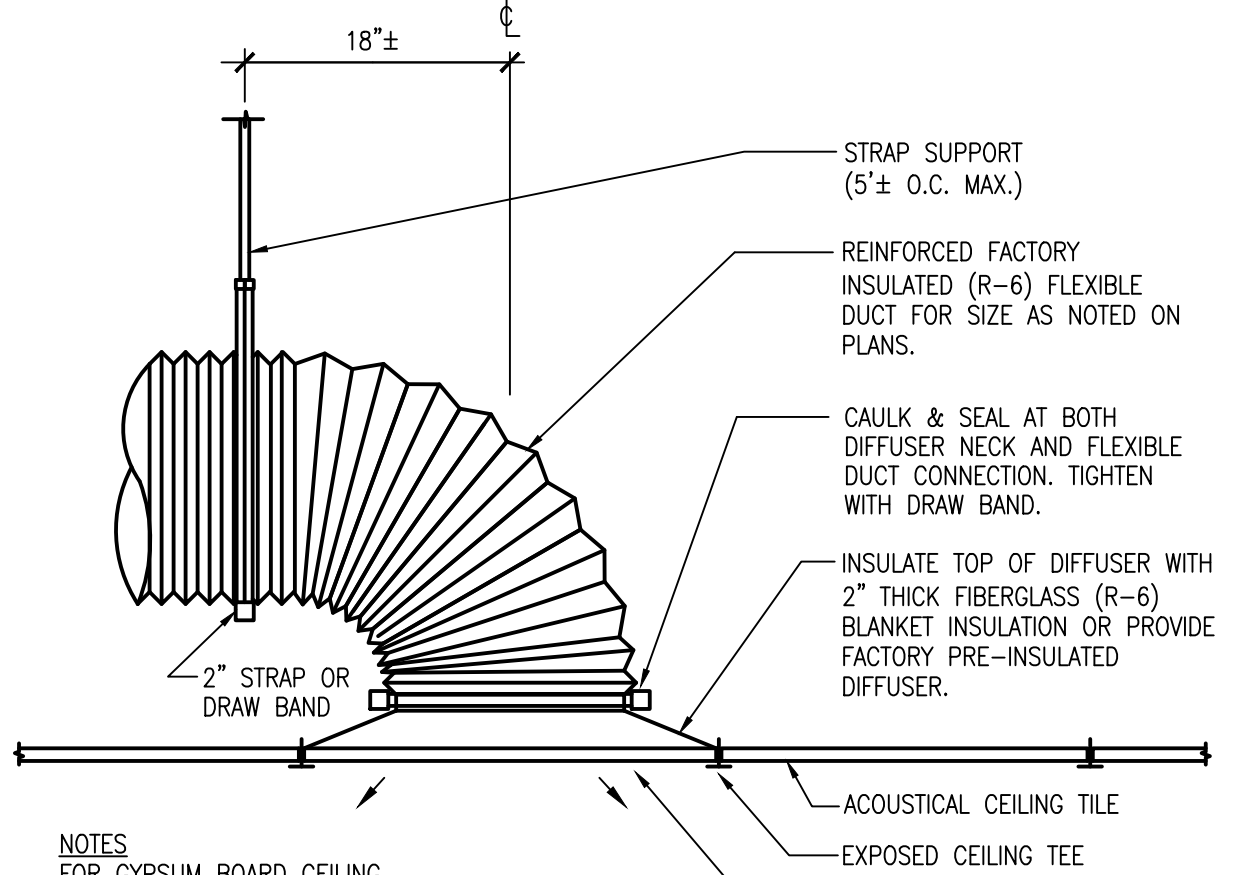
**VARIABLE VOLUME AIR TERMINAL BOX (VAV) CONNECTIONS (HARD DUCTED) DETAIL**  
NOT TO SCALE



**RETURN AIR GRILLE CONNECTION DETAIL**  
NOT TO SCALE



**VOLUME DAMPERS - SINGLE BLADE TYPE**  
NOT TO SCALE



**SUPPLY AIR DIFFUSER CONNECTION DETAIL**  
NOT TO SCALE

**BORRELLI PARTNERS**  
ARCHITECTURE PLANNING LANDSCAPE INTERIOR

770 VASSAR STREET  
ORLANDO, FL 32804 (407) 418-1338

CONSULTING ENGINEERING FIRM LICENSE NO. 14576  
REGISTERED PROFESSIONAL ENGINEER  
FLORIDA LICENSE NO. 14576

SIGNATURE AND DATED SEAL

ANGUSTO E. ROBLES, JR., P.E.  
FLORIDA P.E. # 39410

**BOBES ASSOCIATES**  
CONSULTING ENGINEERS

1111 GORRISON AVENUE, SUITE 200  
TALLAHASSEE, FLORIDA 32301  
PHONE: 904.876.5250  
FAX: 904.876.5252  
E-MAIL: BOBES@BOBES.COM

CONSULTANTS

OC SHERIFF'S OFFICE IT SERVICES RENOVATION

OC SHERIFF'S IT SERVICES  
HVAC DETAILS AND SCHEDULES

PROJECT ADDRESS  
2300 West Colonial Drive  
Orlando, Florida

OWNER NAME AND ADDRESS  
Orange County Sheriff's Office

DRAWING TITLE

PROJECT NO. 17-147

PHASE 100% CONSTRUCTION DOCUMENTS

SCALE AS NOTED

FILE NAME

DRAWN BY

CHECKED BY

DATE 10-4-18

DATE 17-147

DESCRIPTION

REV.

M501



PLUMBING SYMBOL LEGEND					
----	SANITARY WASTE LINE - BELOW FLOOR	○	PIPE ELBOW UP	□	WALL MOUNTED LAVATORY
----	SANITARY WASTE LINE - ABOVE FLOOR	○	PIPE ELBOW DOWN	L ○	COUNTER TOP LAVATORY
----	SANITARY VENT LINE	WCO ←	WALL CLEANOUT	⊘	BALL VALVE
----	DOMESTIC COLD WATER	FCO ○	FLOOR CLEANOUT	⊘	BALL/BUTTERFLY VALVE
----	DOM. HOT WATER 140° F	GCO ○	GROUND CLEANOUT	⊘	BACKWATER VALVE
----	DOMESTIC HOT WATER RECIRCULATED	VTR ○	VENT THRU ROOF	⊘	INLINE PUMP
----	TEMPERED WATER 110° F	RL ○	ROOF LEADER	⊘	UNION
----	FILTERED WATER	RD ○	ROOF DRAIN	⊘	TEMP. & PRESSURE RELIEF VALVE
----	SOFT WATER	FD ○	FLOOR DRAIN	⊘	COCK
----	STORM DRAIN - BELOW FLOOR	HD ○	HUB DRAIN	⊘	GAS COCK
----	STORM DRAIN - ABOVE FLOOR	○	POINT OF CONNECTION NEW TO EXISTING	⊘	WATER ARRESTOR
----	GREASE WASTE LINE - BELOW FLOOR	○	LIMIT OF DEMOLITION	⊘	BALANCING VALVE
----	C CONDENSATE DRAIN	HB ○	HOSE BIBB	⊘	DRAWING HEX NOTE
----	G GAS LINE	WC ○	WATER CLOSET	⊘	REVISION DELTA AND NUMBER
----	A AIR LINE	○	URINAL	⊘	

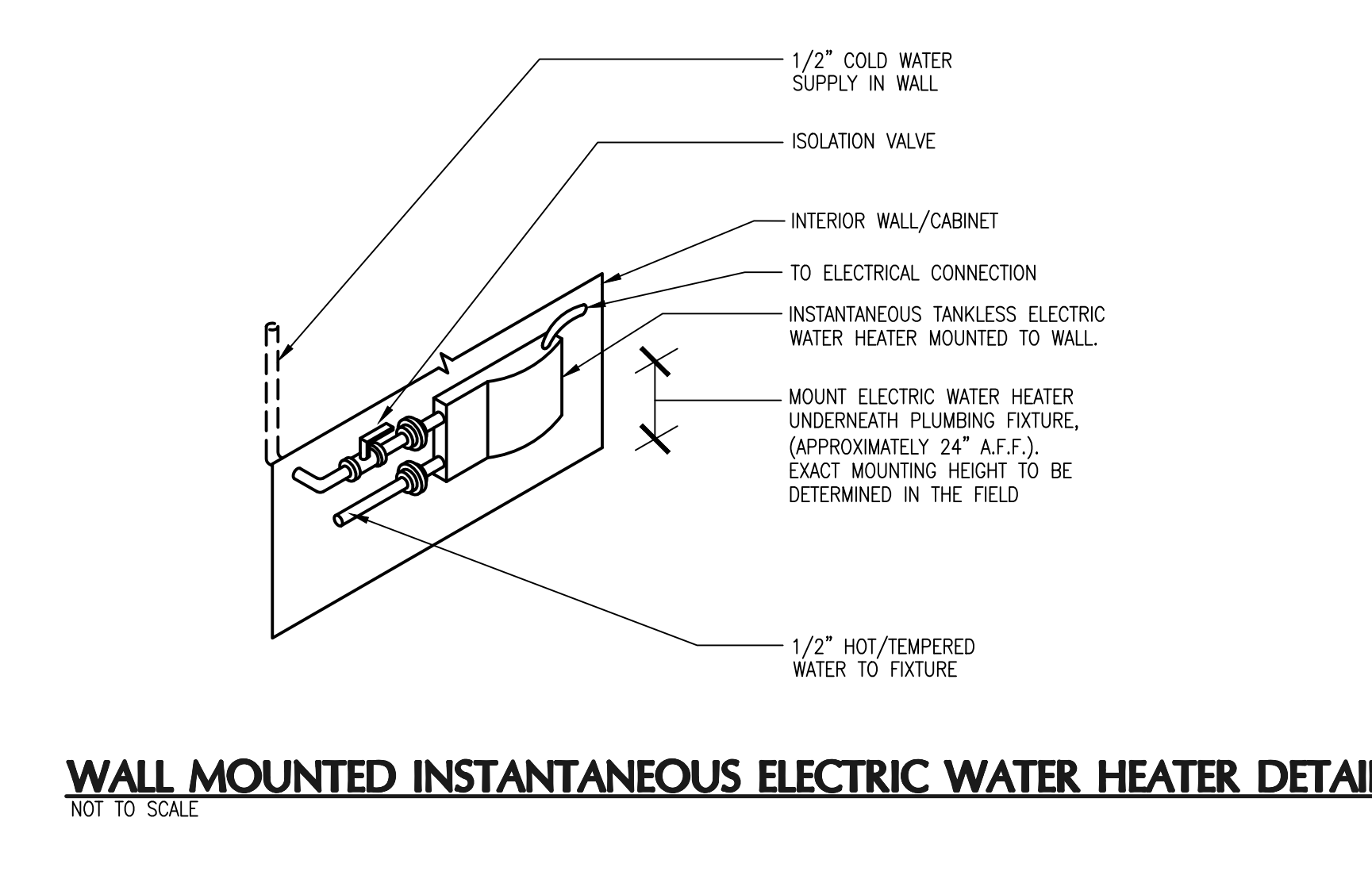
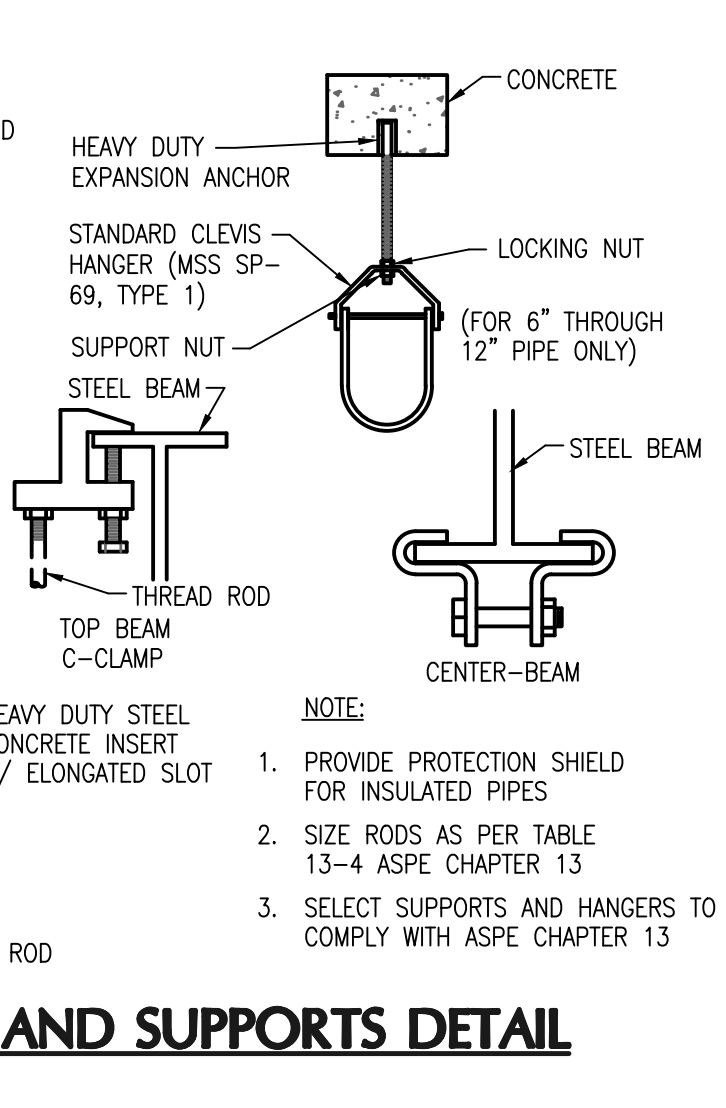
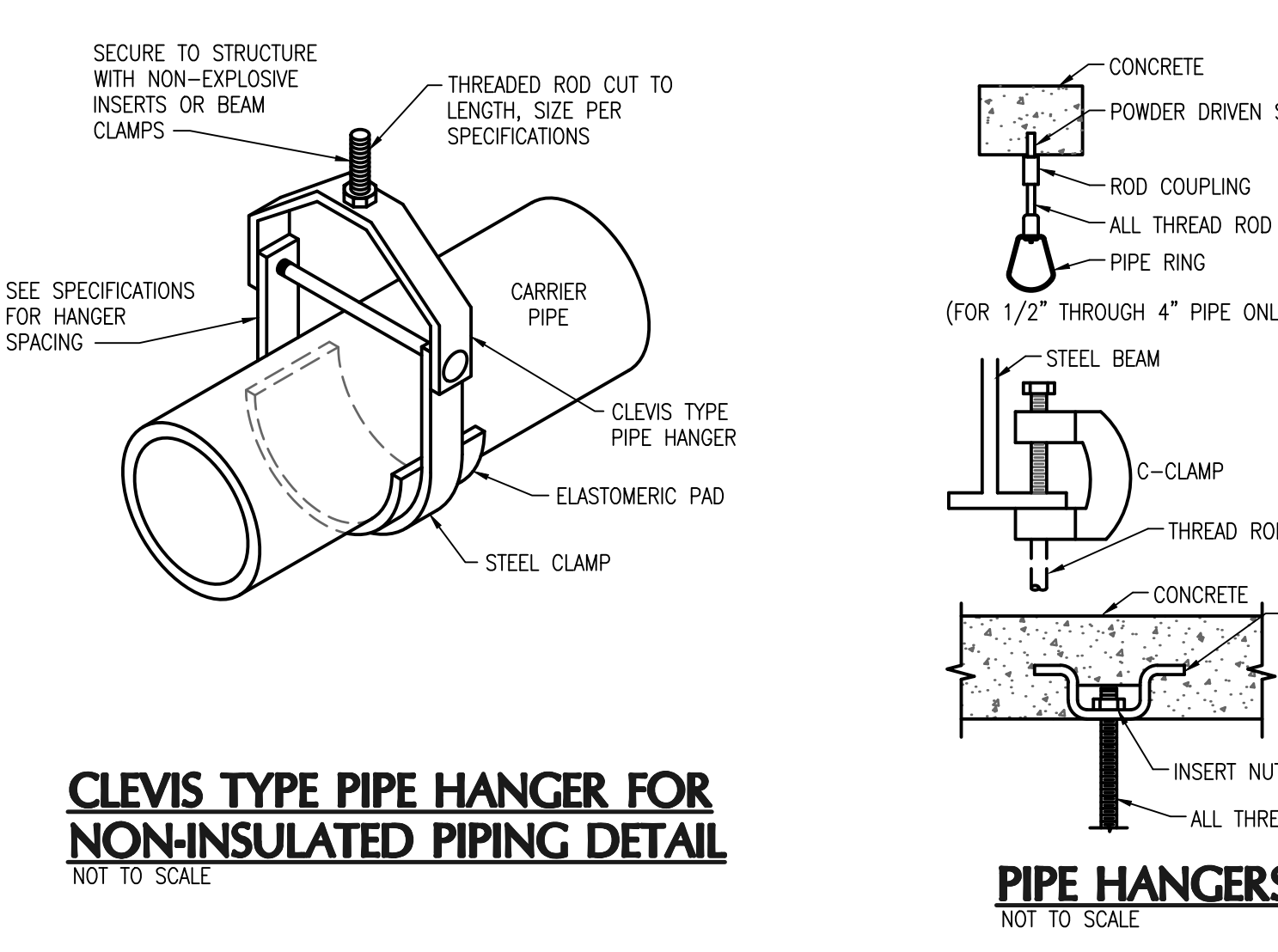
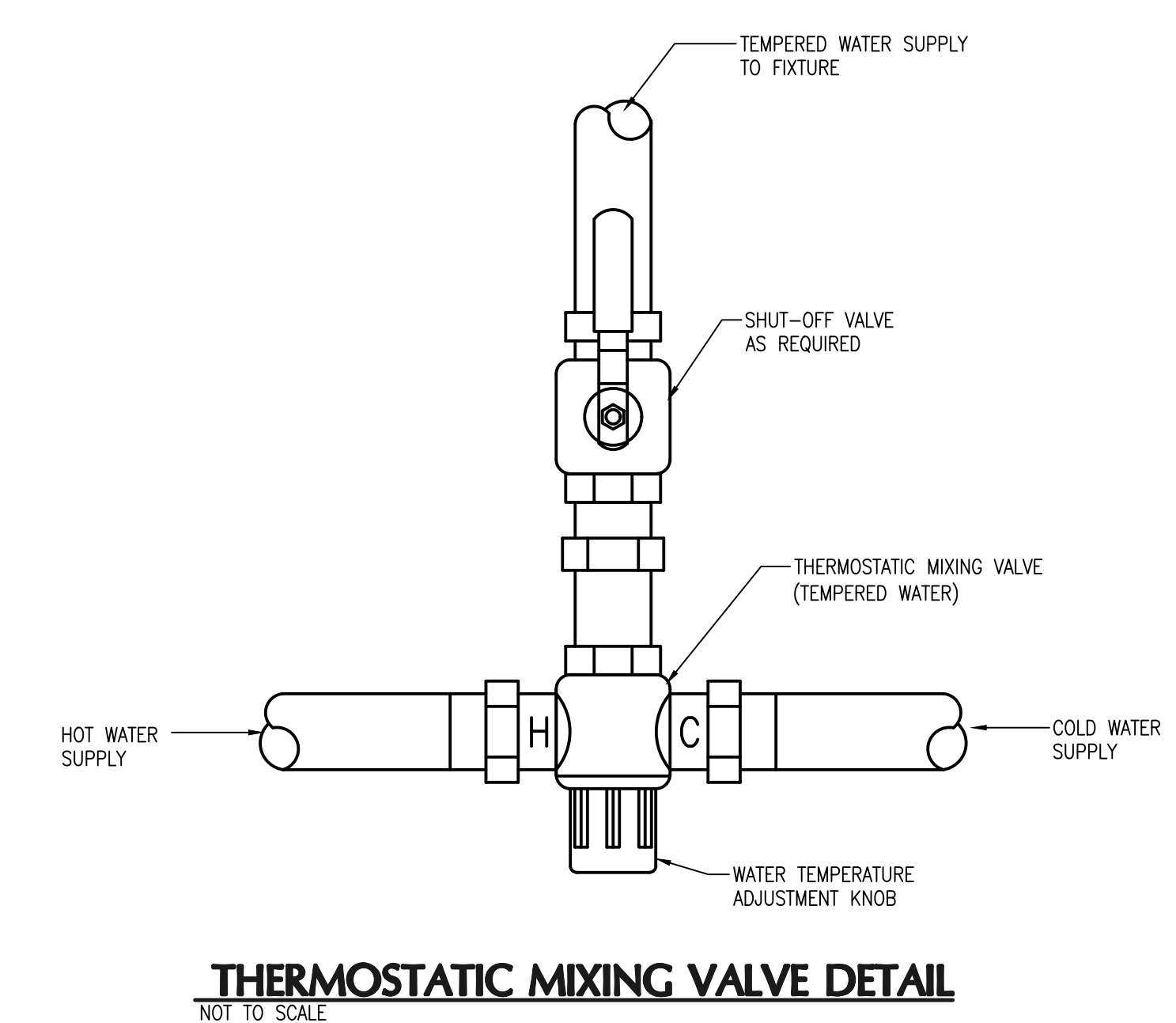
PLUMBING ABBREVIATIONS					
AV	AIR ADMITTANCE VALVE	ESE	EMERGENCY SHOWER/EYEWASH	PW	POWER WASH
AD	AREA DRAIN	EW	ELECTRIC WATER HEATER	RP	RECIRCULATING PUMP
ADR	AIR DRIER (COMPRESSED AIR)	EW	ELECTRIC WATER COOLER	RWL	RAIN WATER LEADER
AF	AIR FILTER (COMPRESSED AIR)	FD	FLOOR DRAIN	SAN	SANITARY
AFF	ABOVE 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	GWH	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	TMW	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

PLUMBING FIXTURE CONNECTION SCHEDULE							
SYMBOL	DESCRIPTION	CW	TW	HW	WASTE	VENT	REMARKS
CS	COUNTER SINK	1/2"	1/2"	--	1 1/2"	1 1/4"	---

INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE												
UNIT NUMBER	KW	FLOW (GPM)	TEMP RISE °F	DISCHARGE TEMP. °F	WATER CONNECTION (INLET)	WATER CONNECTION (OUTLET)	POWER REQUIRED			BREAKER AMPS	MANUFACTURER/MODEL	NOTES
							VOLTS	PHASE	CYCLES			
IEWH-1	2.40	.50	33	103	1/2"	1/2"	120	1	60	20	CHRONOMITE SR20L/120	1-4

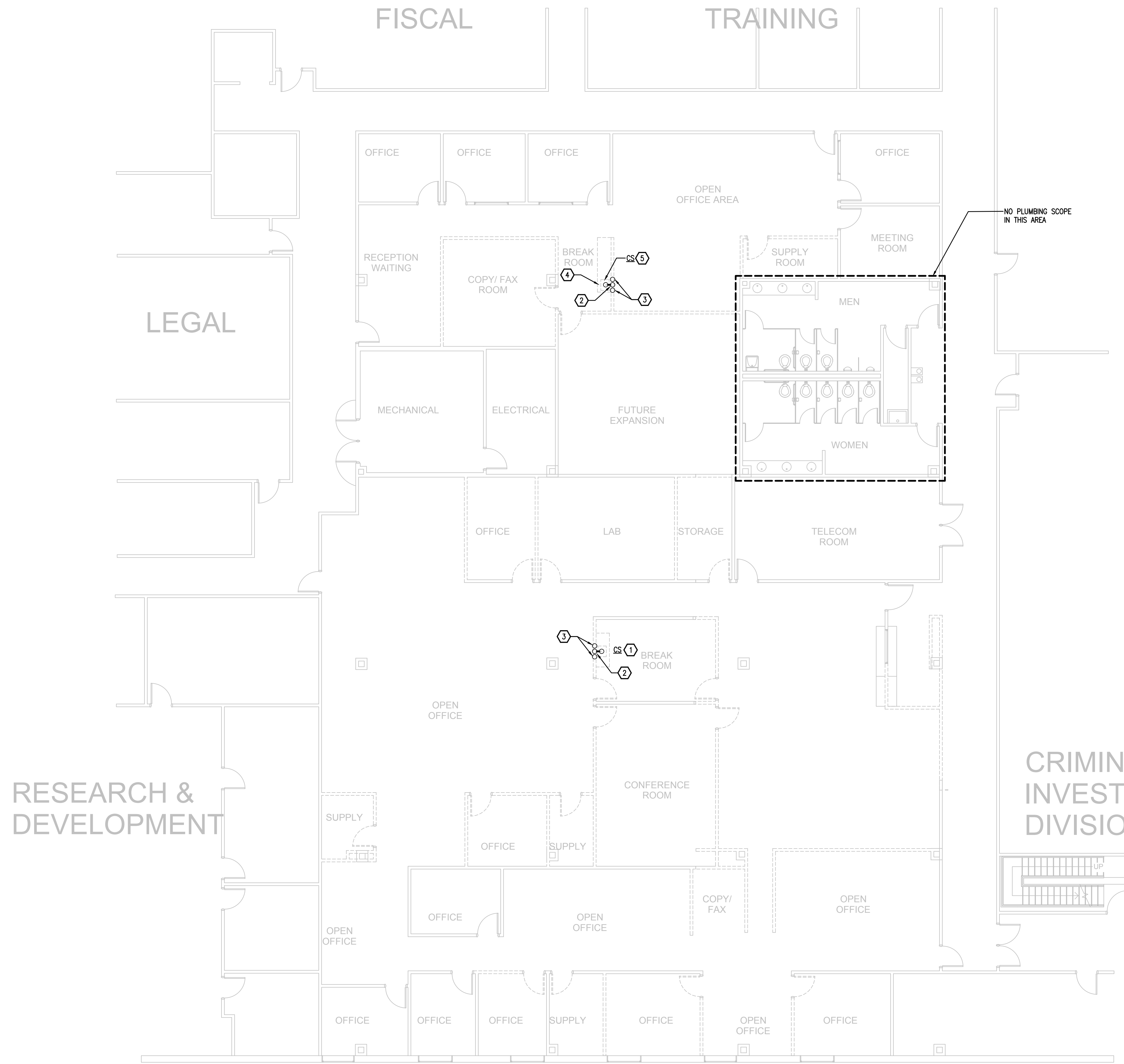
NOTES  
 1. WATER HEATER SHALL HAVE A PRESET MAXIMUM TEMPERATURE.  
 2. WATER HEATER SHALL MEET ADA REQUIREMENTS.  
 3. WATER HEATER SHALL BE 99% EFFICIENT.  
 4. CONTRACTOR SHALL INSTALL BALANCING VALVE ON THE 1/2" COLD WATER SUPPLY LINE FEEDING THIS WATER HEATER TO CONTROL WATER FLOW AND DISCHARGE TEMPERATURE.

- ### PLUMBING GENERAL NOTES
- 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 CITY OF ORLANDO BUILDING DEPARTMENT AND ALL OTHER APPLICABLE CODES AND STANDARDS.
  - 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.
  - PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UTILITIES IN THE FIELD.
  - PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING CONDITIONS.
  - COORDINATE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCES.
  - INSTALL ALL WATER, WASTE AND VENT PIPING IN ACCORDANCE WITH ALL APPLICABLE CODES.
  - SOIL, WASTE AND VENT PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC DWV PIPING IN ACCORDANCE WITH ASTM D 2865. FITTINGS SHALL BE SCHEDULE 40 PVC DWV FITTINGS AND SHALL BE IN ACCORDANCE WITH ASTM D 3311. JOINTS SHALL BE SOLVENT CEMENTED IN ACCORDANCE WITH ASTM D 2855 USING SOLVENT CEMENT IN COMPLIANCE WITH ASTM D 2564.
  - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
  - ALL PIPING SHALL BE CONCEALED WITHIN THE CEILING SPACE, WALLS AND CHASES AS SHOWN ON PLANS.
  - ALL EXPOSED PIPING AT PLUMBING FIXTURES SHALL BE CHROME PLATED BRASS WITH ESCUTCHEON PLATES AT THE WALL, FLOOR OR CEILING PENETRATIONS.
  - ALL COLD WATER, HOT WATER AND TEMPERED WATER PIPING SHALL BE TYPE "L" COPPER TUBING IN ACCORDANCE WITH ASTM D 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.
  - INSULATE ALL TEMPERED WATER PIPING WITH 1" THICK FIBERGLASS INSULATION WITH SELF SEALING VAPOR RETARDANT AND FOIL JACKET (R-4.35/INCH).
  - ALL PIPING SHALL BE FIRMLY ANCHORED AND SUPPORTED ITS ENTIRE LENGTH TO PREVENT SWAY AND VIBRATION.
  - 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.
  - FURNISH SUPPLIES WITH STOP VALVES FOR ALL PLUMBING FIXTURES.
  - ALL SHUT-OFF VALVES SHALL BE BRASS BALL VALVES.
  - ALL WATER PIPING SHALL BE SLOPED TO DRAIN.
  - ALL SOIL, WASTE, AND VENT PIPING SHALL BE SLOPED 1/4" PER FOOT (2X) FOR PIPES 2 1/2" AND SMALLER AND 1/8" PER FOOT (1X) FOR PIPES 3" AND LARGER.
  - PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS OF DISSIMILAR METALS.
  - REFER TO DOMESTIC WATER RISER DIAGRAM FOR LOCATIONS OF ALL VALVES AND ACCESSORIES TO BE INSTALLED.
  - ALL DOMESTIC WATER SHUT OFF VALVES LOCATED IN THE CEILING SPACE SHALL BE ACCESSIBLE AND SHALL BE LOCATED WITHIN 18" OF THE CEILING.
  - THE CONTRACTOR SHALL PROVIDE ALL REQUIRED PERMITS.
  - 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.
  - 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.



OC SHERIFFS OFFICE IT SERVICES RENOVATION

770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338		1111 ORCHARD DRIVE, SUITE 200 ORLANDO, FL 32837 PHONE: (407) 255-0200 FAX: (407) 255-0201 E-MAIL: BOBES@BOBES.COM	
SIGNATURE AND DATED SEAL		CONSULTANTS	
PROJECT ADDRESS 2300 West Colonial Drive Orlando, Florida		OWNER NAME AND ADDRESS Orange County Sheriff's Office	
PROJECT NO. 17-147	DATE 	REV. 	DESCRIPTION 
PHASE 100% CONSTRUCTION BIDS	SCALE AS NOTED	FILE NAME #6	DRAWN BY ABJ
CHECKED BY 	DATE 10-4-18		
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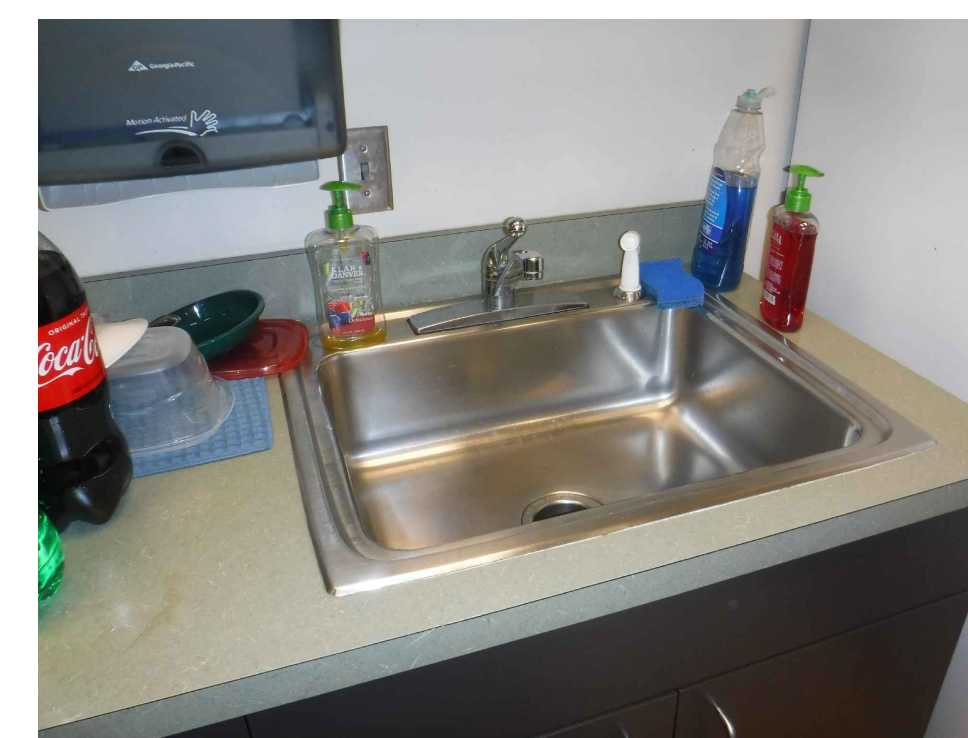


**PLUMBING DEMOLITION KEY NOTES**

- 1 EXISTING COUNTER SINK AND FAUCET AND ALL ASSOCIATED WATER, WASTE & VENT PIPING TO BE REMOVED AND CAPPED. STORE AND PROTECT FOR REINSTALLATION.
- 2 REMOVE ALL VENT PIPING TO ABOVE CEILING AND CAP. REMOVE ALL SANITARY WASTE PIPING TO BELOW 2ND FLOOR SLAB (1ST FLOOR CEILING SPACE) AND CAP.
- 3 REMOVE ALL HOT AND COLD WATER PIPING TO ABOVE CEILING AND CAP.
- 4 EXISTING UNDERCOUNTER DISPOSAL TO BE REMOVED AND REINSTALLED IN NEW LOCATION.
- 5 EXISTING COUNTER SINK AND FAUCET AND ALL ASSOCIATED WATER, WASTE & VENT PIPING TO BE REMOVED AND CAPPED. TURN SINK OVER TO THE OWNER FOR REPURPOSING OR DISCARD SINK IF THE OWNER DOES NOT WANT IT.



**EXISTING COUNTER SINK TO BE REMOVED AND REINSTALLED**

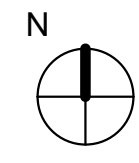


**EXISTING COUNTER SINK TO BE REMOVED**



**EXISTING DISPOSAL TO BE REMOVED AND REINSTALLED**

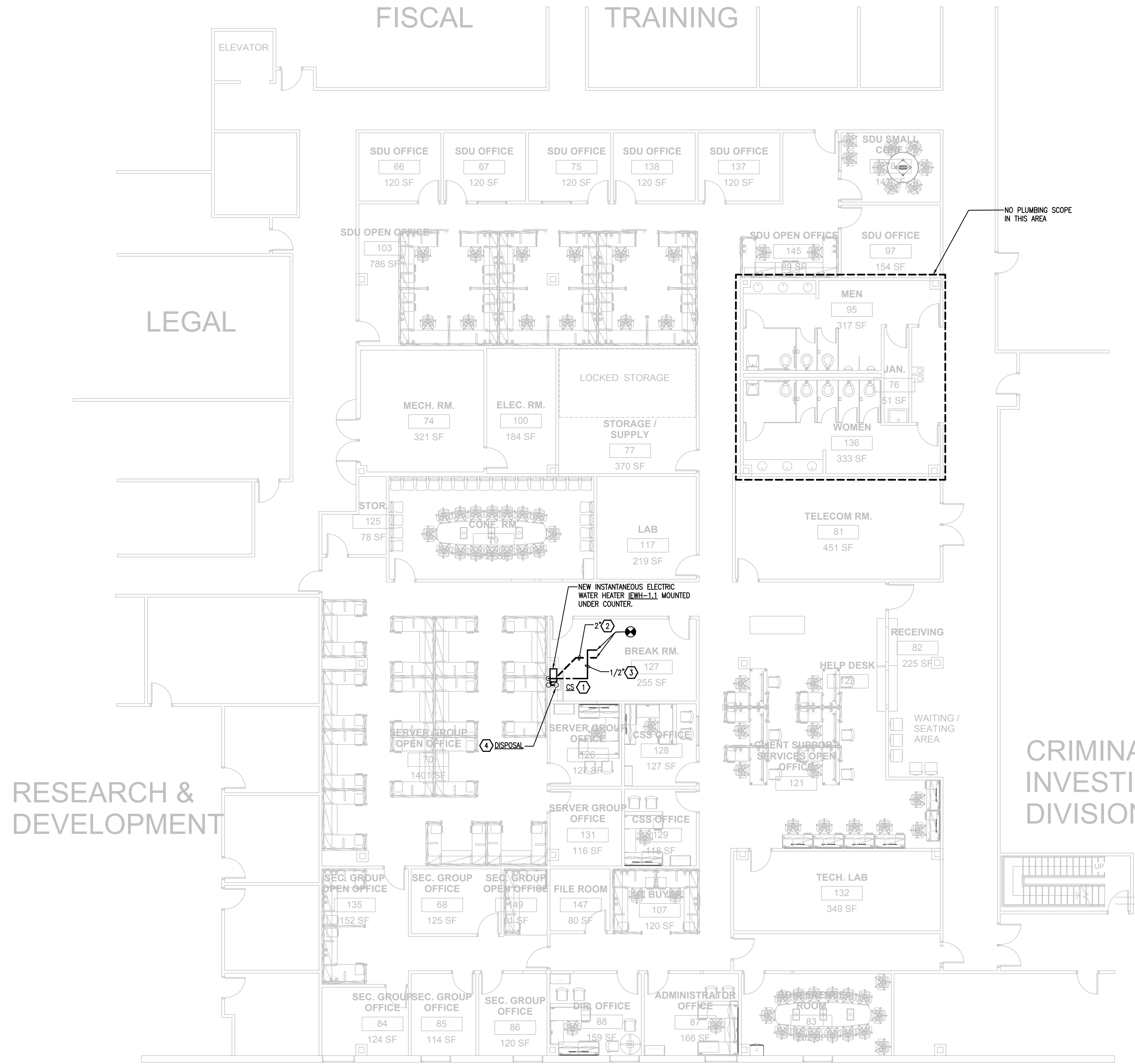
1 DEMOLITION FLOOR PLAN - PLUMBING  
1/8" = 1'-0"



**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

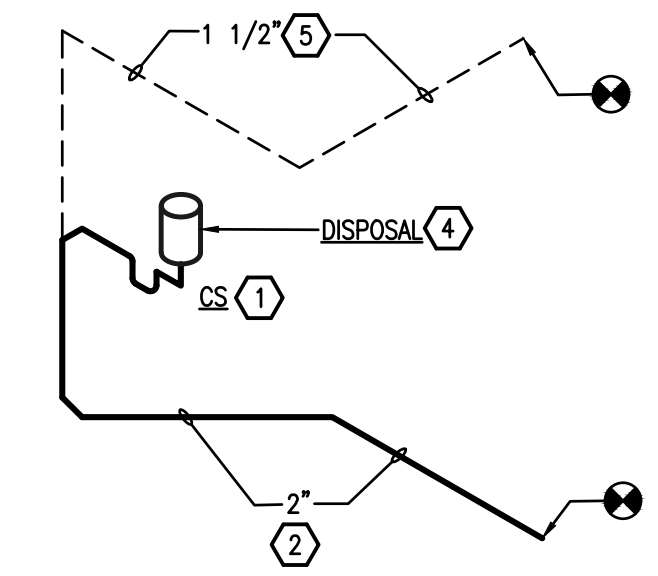
 770 VISSER STREET ORLANDO, FL 32804 (407) 418-1338 <small>CONSTRUCTION PLUMBING IS THE PROPERTY OF BORRELLI PARTNERS ARCHITECTURE, PLANNING, LANDSCAPE, INTERIOR. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.</small>	
SIGNATURE AND DATED SEAL	
 BOBES ASSOCIATES CONSULTING ENGINEERS 1111 ORANGE AVENUE, SUITE 200 ORLANDO, FL 32814 P. E. # 39410 FLORIDA STATE LICENSE # 1331	
CONSULTANTS	
DRAWING TITLE	
OC SHERIFF'S IT SERVICES DEMOLITION FLOOR PLAN - PLUMBING	
PROJECT ADDRESS	200 West Colonial Drive Orlando, Florida
DATE	
OWNER NAME AND ADDRESS	Orange County Sheriff's Office
REV.	DESCRIPTION
17-117	
1808 CONSTRUCTION DOC	AS NOTED
SCALE	
FILE NAME	
DRAWN BY	
CHECKED BY	
DATE	10-4-18

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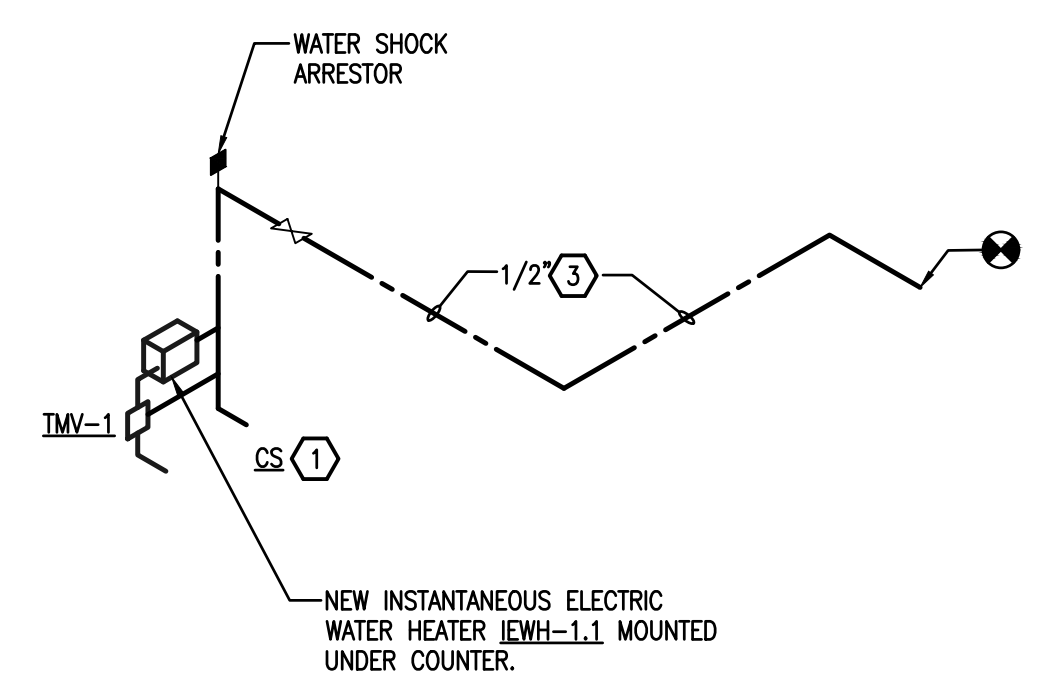


**PLUMBING DEMOLITION KEY NOTES**

- 1 RELOCATED COUNTER SINK AND FAUCET INSTALLED IN NEW MILLWORK.
- 2 RUN NEW 2" SANITARY WASTE LINE IN 1ST FLOOR CEILING SPACE AND CONNECT TO EXISTING SANITARY SERVING REMOVED SINK.
- 3 RUN NEW 1/2" CW SUPPLY LINE IN CEILING SPACE AND CONNECT TO EXISTING DOMESTIC WATER LINE SERVING REMOVED SINK.
- 4 RELOCATED GARBAGE DISPOSAL INSTALLED BENEATH RELOCATED SINK.
- 5 RUN NEW 1 1/2" VENT LINE IN CEILING SPACE AND CONNECT TO EXISTING VENT MAIN SERVING REMOVED SINK.

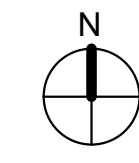


**SANITARY WASTE AND VENT RISER DIAGRAM**  
NOT TO SCALE



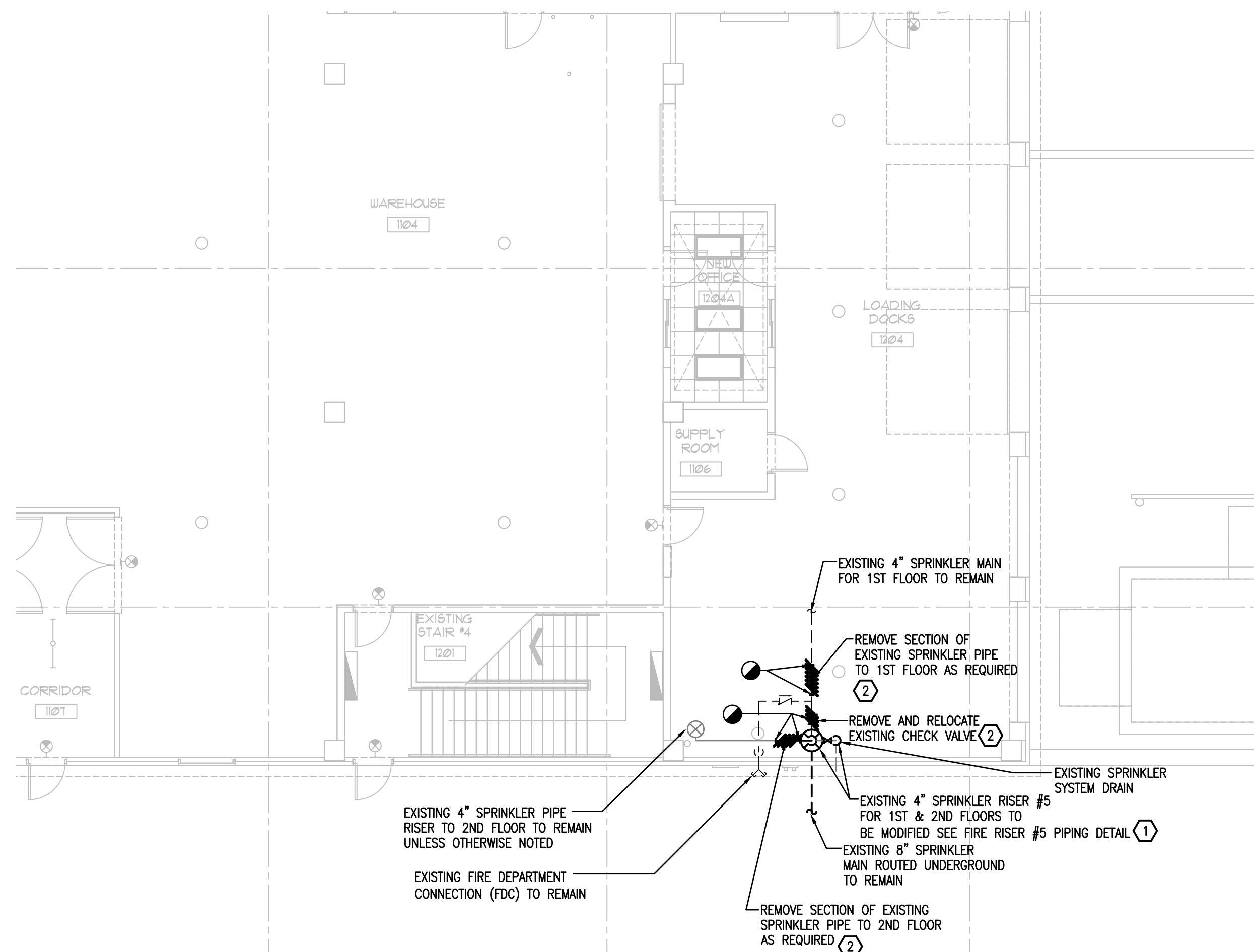
**DOMESTIC WATER RISER DIAGRAM**  
NOT TO SCALE

1 RENOVATION FLOOR PLAN - PLUMBING - SANITARY  
1/8" = 1'-0"

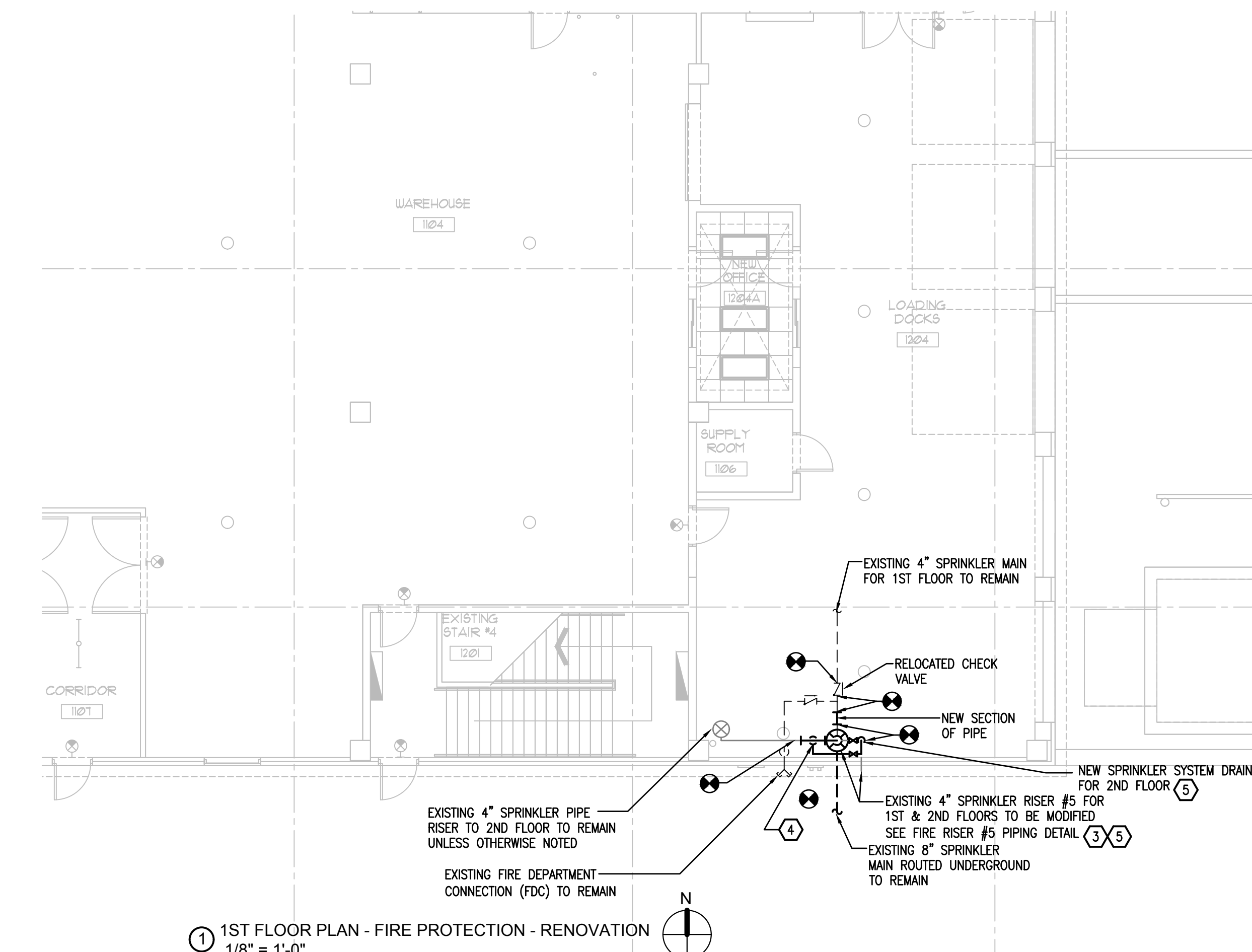


**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

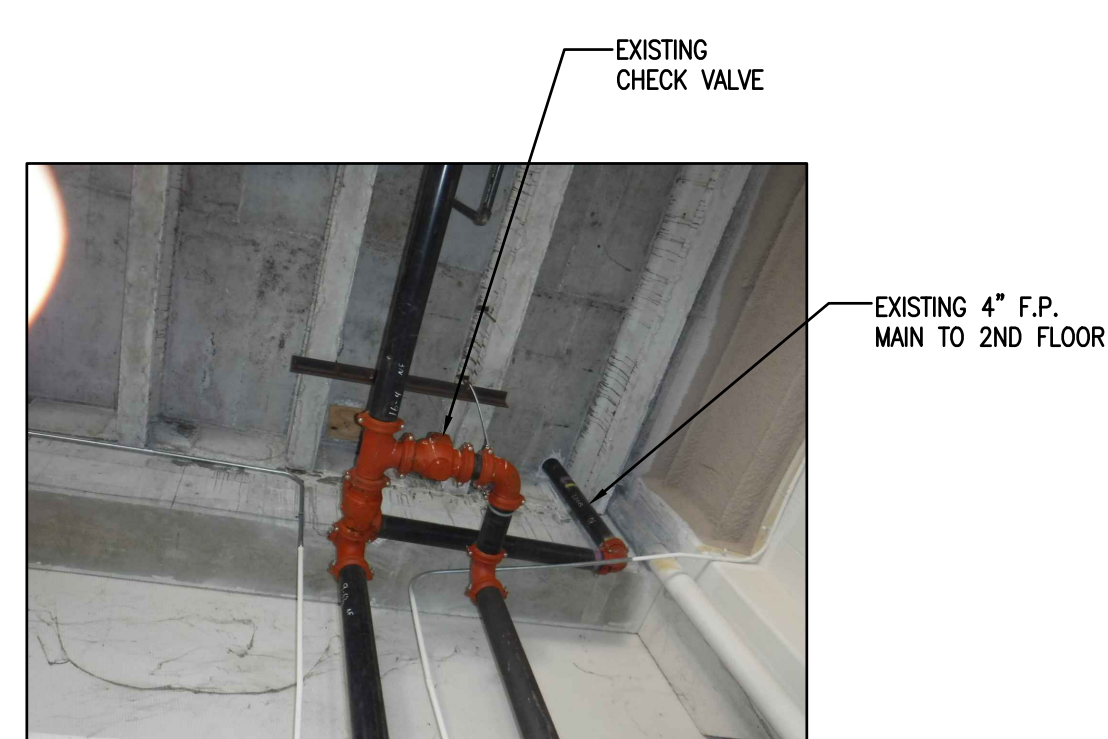
		770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338 <small>CONSULTING ENGINEERING FIRM LICENSE NO. 12496          PROFESSIONAL ENGINEERING LICENSE NO. 12496          PROFESSIONAL ARCHITECTURE LICENSE NO. 12496          PROFESSIONAL INTERIOR DESIGNER LICENSE NO. 12496</small>
		AUGUSTO E. BOBES, JR., P.E. FLORIDA P.E. # 39410
	BOBES ASSOCIATES CONSULTING ENGINEERS 1311 ORANGE AVENUE, SUITE 200 ORLANDO, FLORIDA 32839 PHONE: (407) 251-1234 FAX: (407) 251-1235	
OC SHERIFF'S IT SERVICES RENOVATION FLOOR PLAN - PLUMBING		
PROJECT ADDRESS 200 West Colonial Drive Orlando, Florida	OWNER NAME AND ADDRESS Orange County Sheriff's Office	
PROJECT NO. 17-147 PHASE 100% CONSTRUCTION DOC SCALE AS NOTED FILE NAME #6 DRAWN BY #6 CHECKED BY #6 DATE 10-4-18	DATE DESCRIPTION REV.	DRAWING TITLE OC SHERIFF'S IT SERVICES RENOVATION
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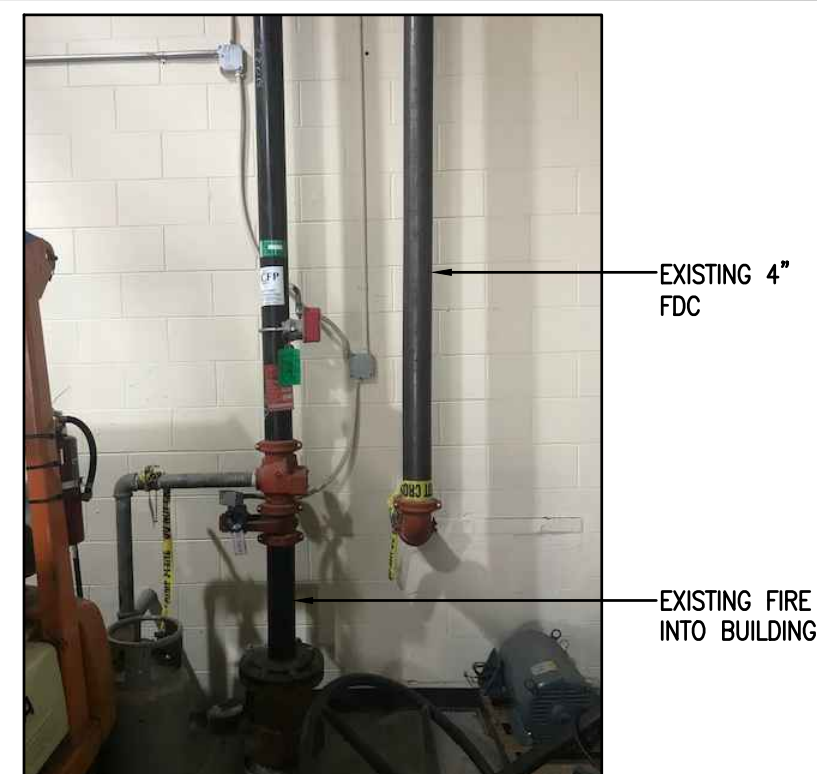
1 1ST FLOOR PLAN - FIRE PROTECTION - DEMOLITION  
1/8" = 1'-0"



1 1ST FLOOR PLAN - FIRE PROTECTION - RENOVATION  
1/8" = 1'-0"



EXISTING FIRE PROTECTION RISER #5  
FOR 1ST + 2ND FLOORS TO BE MODIFIED



EXISTING FIRE PROTECTION RISER #5  
FOR 1ST + 2ND FLOORS TO BE MODIFIED

**1ST FLOOR FIRE PROTECTION SCOPE OF WORK**

1. THE SCOPE INVOLVES RE-CONFIGURING OF THE EXISTING FIRE MAIN PIPING TO ADD AN ISOLATION VALVE, CHECK VALVE, TAMPER SWITCH AND FLOW SWITCH FOR THE 2ND FLOOR ZONE FROM FIRE RISER #5.
2. THE SCOPE ALSO INCLUDES RELOCATION OF AN EXISTING CHECK VALVE TO PROVIDE A CODE COMPLIANT FIRE DEPARTMENT CONNECTION TIE IN.

**FIRE PROTECTION DEMOLITION KEY NOTES**

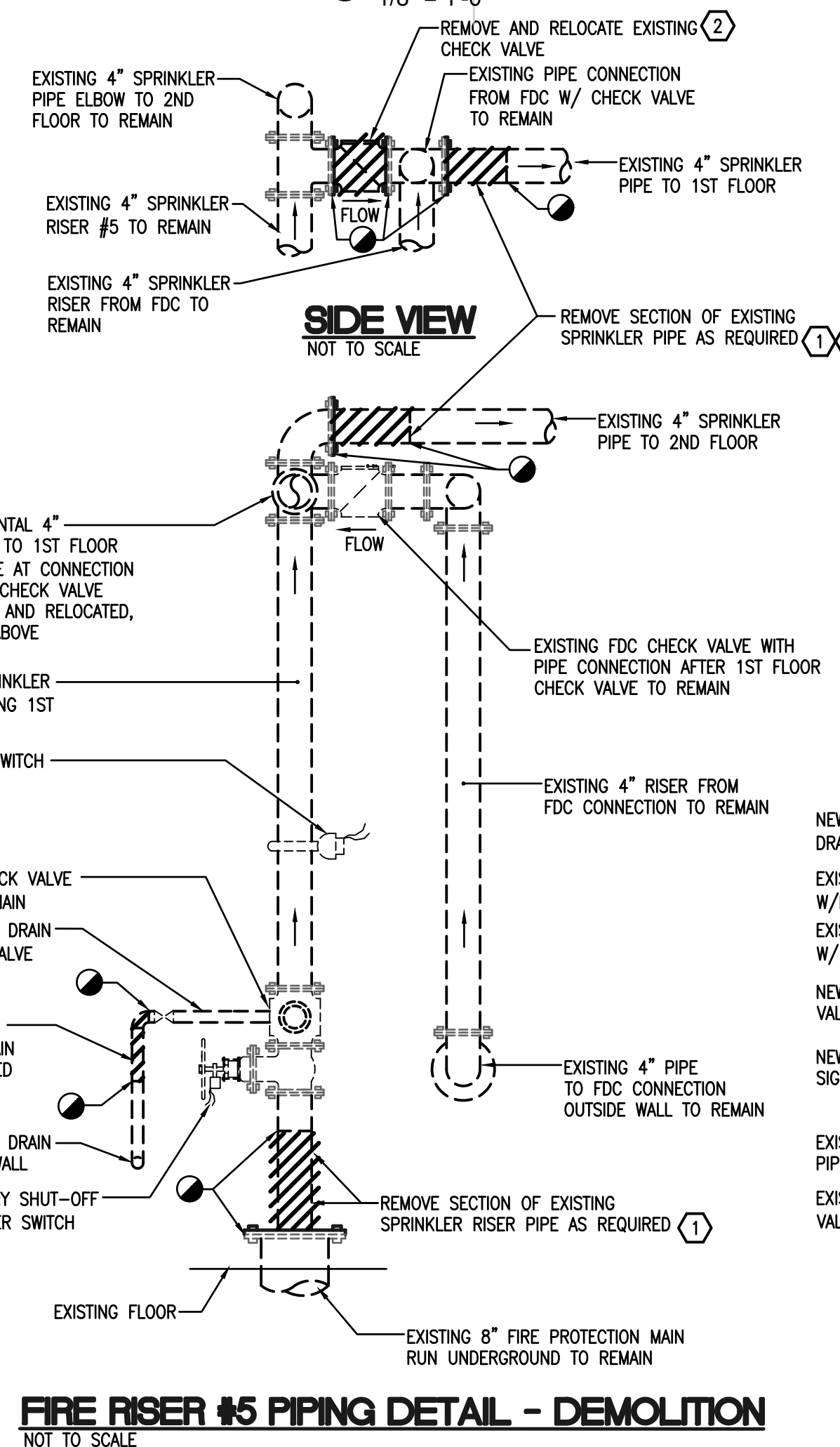
- 1 REMOVE SECTION OF EXISTING 4" SPRINKLER PIPE AS REQUIRED TO INSTALL NEW SPRINKLER PIPE CONNECTION TEE FOR 2ND FLOOR.
- 2 REMOVE EXISTING 1ST FLOOR CHECK VALVE AT CONNECTION TO SPRINKLER RISER. RELOCATE CHECK VALVE AFTER EXISTING FDC PIPE CONNECTION. REMOVE SECTION OF EXISTING 1ST FLOOR SPRINKLER PIPE AS REQUIRED.

**FIRE PROTECTION RENOVATION KEY NOTES**

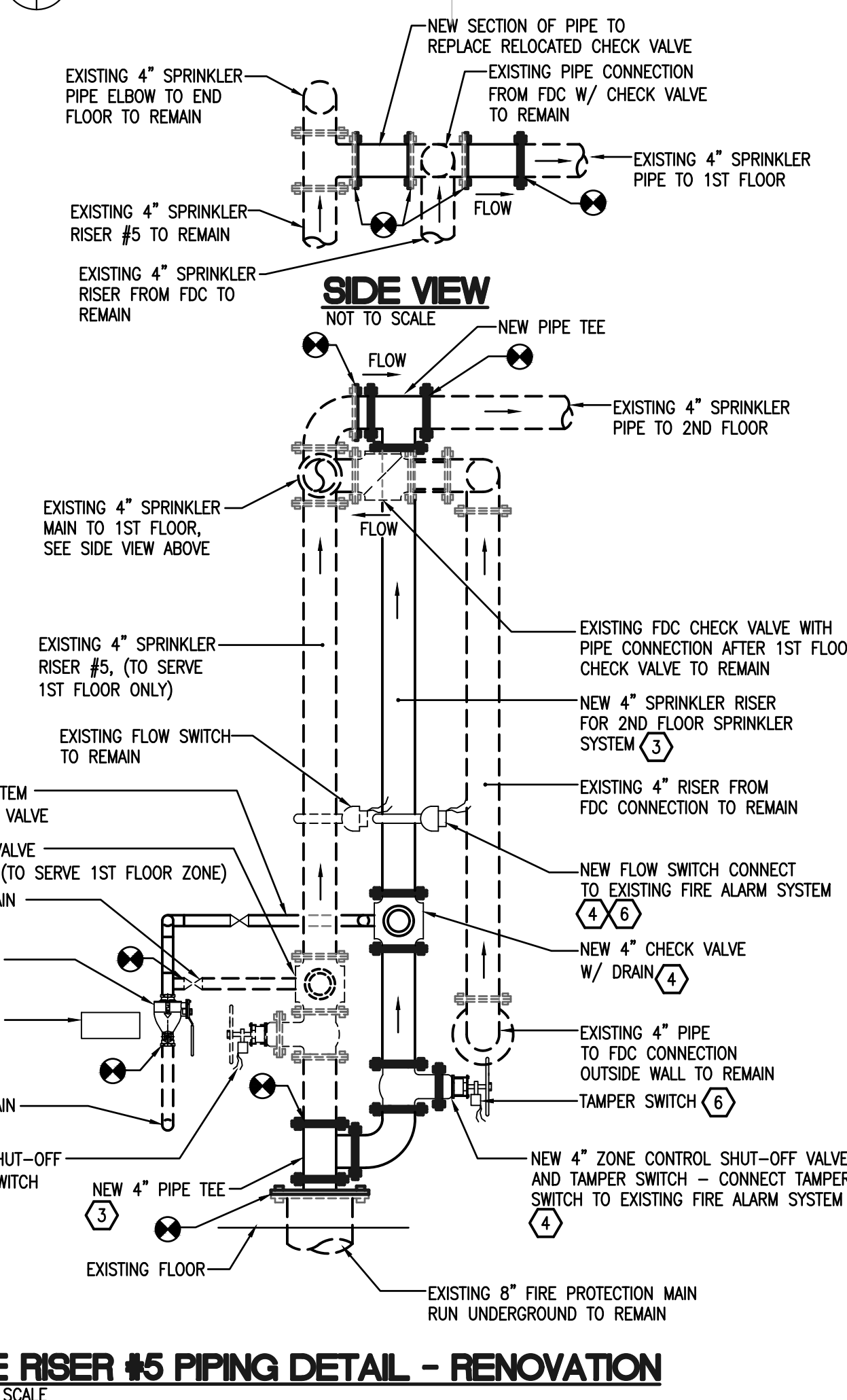
- 3 PROVIDE NEW 4" SPRINKLER PIPE TEE CONNECTION ON EXISTING 4" SPRINKLER PIPE RISER PRIOR TO EXISTING CHECK VALVE. EXACT LOCATION OF CONNECTION TO BE DETERMINED IN THE FIELD.
- 4 NEW 4" SPRINKLER RISER FOR 2ND FLOOR SPRINKLER SYSTEM. PROVIDE NEW SHUT-OFF VALVE WITH TAMPER SWITCH AND FLOW SWITCH WITH DRAIN AND NEW FLOW SWITCH. CONNECT 4" SPRINKLER RISER TO EXISTING 2ND FLOOR SPRINKLER PIPE NEAR CEILING.
- 5 PROVIDE NEW INSPECTOR TEST WITH SIGNAGE ON EXISTING SYSTEM DRAIN LINE. REMOVE SECTION OF EXISTING DRAIN PIPING AS REQUIRED TO INSTALL NEW DRAIN PIPING FOR 2ND FLOOR RISER AND INSPECTOR TEST VALVE.
- 5 CONTRACTOR SHALL CONNECT NEW TAMPER SWITCH AND FLOW SWITCH TO EXISTING FIRE ALARM SYSTEM. RE-WORK FIRE ALARM SYSTEM ADDRESS TO ADD THESE DEVICES. PROVIDE ALL LOW VOLTAGE WIRING AND RACEWAYS NECESSARY FOR A COMPLETE CODE COMPLIANT INSTALLATION.

**FIRE PROTECTION NOTES**

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 FLORIDA FIRE PREVENTION CODE (6TH EDITION), NFPA 13 AND THE CITY OF ORLANDO BUILDING DEPARTMENT AND FIRE MARSHAL REQUIREMENTS.
2. CONTRACTOR SHALL SUBMIT COORDINATED SPRINKLER SHOP DRAWINGS TO THE CITY OF ORLANDO FIRE MARSHAL AS NECESSARY TO OBTAIN A FIRE SPRINKLER PERMIT FOR THIS WORK.
3. PRIOR TO BIDDING THE WORK THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FIELD VERIFY EXISTING SPRINKLER MAIN PIPE RISER, FDC PIPE RISER AND VALVE LOCATIONS.
4. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE OWNER FOR DRAINING THE EXISTING FIRE PROTECTION SYSTEM. CONTRACTOR SHALL PROVIDE A FIRE WATCH FOR THE AREAS AFFECTED BY THE SPRINKLER SYSTEM SHUT-DOWN IN ACCORDANCE WITH THE FIRE MARSHAL REQUIREMENTS.
5. EXISTING 1ST FLOOR FIRE SPRINKLER PIPING SYSTEM AND HEADS TO REMAIN.



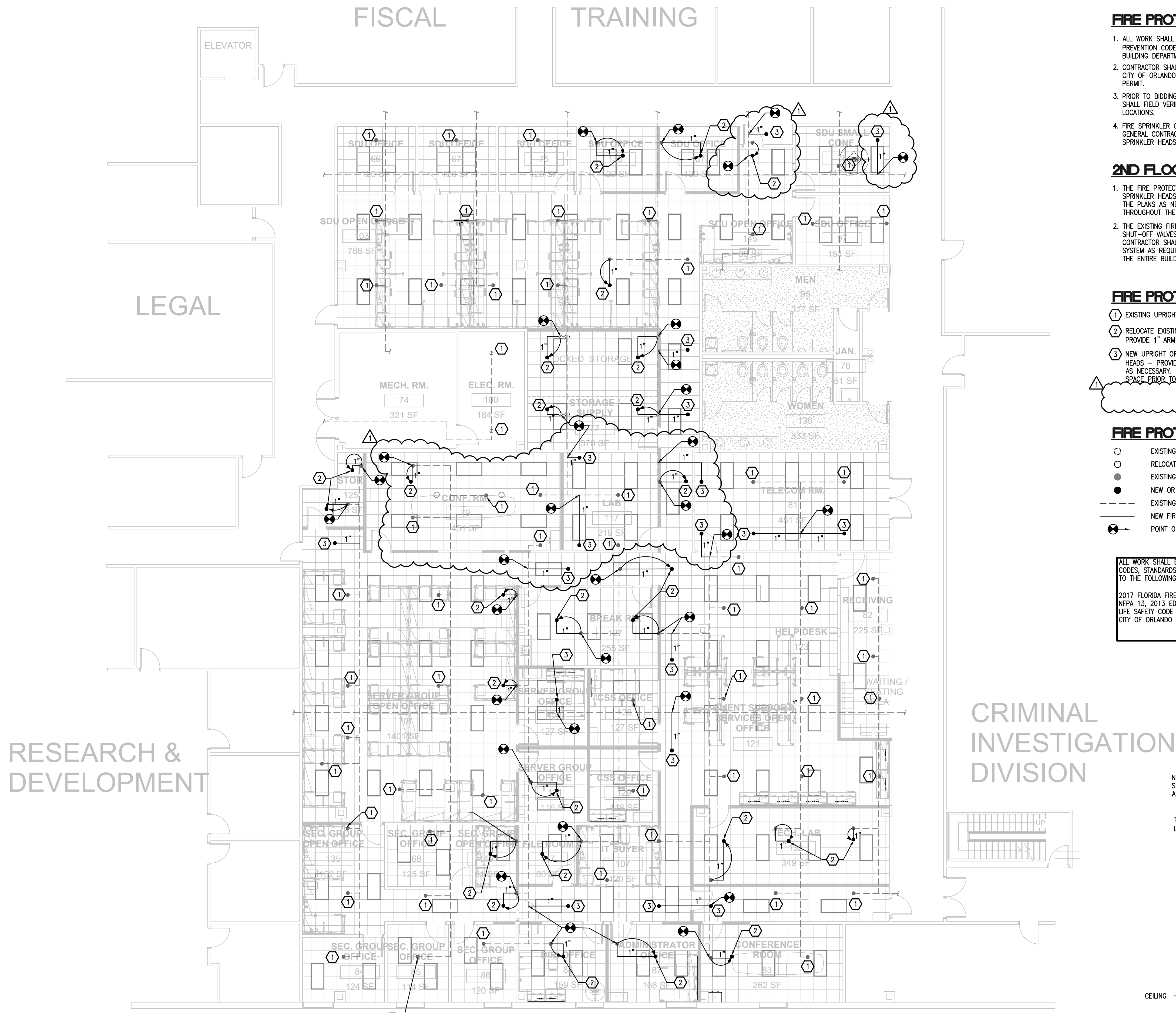
FIRE RISER #5 PIPING DETAIL - DEMOLITION  
NOT TO SCALE



FIRE RISER #5 PIPING DETAIL - RENOVATION  
NOT TO SCALE

OC SHERIFF'S OFFICE IT SERVICES RENOVATION

<p><b>BORRELLI PARTNERS</b> ARCHITECTURE PLANNING LANDSCAPE INTERIOR</p> <p>770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338</p> <p><small>CONSULTING ENGINEERING WORK IS THE PROPERTY OF BORRELLI PARTNERS AND IS NOT TO 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 THE WRITTEN PERMISSION OF BORRELLI PARTNERS, LLC (BPT).</small></p>		<p><b>BOBES ASSOCIATES</b> CONSULTING ENGINEERS</p> <p>1111 ORCHARD DRIVE, SUITE 200 ORLANDO, FLORIDA 32809 PHONE: (407) 258-0208 FAX: (407) 258-0209 E-MAIL: BOBES@BOBES.COM FLORIDA LICENSE # 1333</p>	
<p>PROJECT ADDRESS 2300 West Colonial Drive Orlando, Florida</p>		<p>OWNER NAME AND ADDRESS Orange County Sheriff's Office</p>	
PROJECT NO.	17-147	DATE	10-4-18
PHASE	100% CONSTRUCTION DOCS	SCALE	AS NOTED
FILE NAME		DRAWN BY	ABJ
CHECKED BY		DATE	
<p><b>FP100</b></p>			



**FIRE PROTECTION NOTES**

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 FLORIDA FIRE PREVENTION CODE (6TH EDITION), NFPA 13 AND THE CITY OF ORLANDO BUILDING DEPARTMENT AND FIRE MARSHALL REQUIREMENTS.
2. CONTRACTOR SHALL SUBMIT COORDINATED SPRINKLER SHOP DRAWINGS TO THE CITY OF ORLANDO FIRE MARSHALL AS NECESSARY TO OBTAIN A FIRE SPRINKLER PERMIT.
3. PRIOR TO BIDDING THE WORK THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FIELD VERIFY EXISTING SPRINKLER HEADS AND SPRINKLER MAIN LOCATIONS.
4. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE GENERAL CONTRACTOR AND SHALL TEMPORARILY REMOVE AND REINSTALL SPRINKLER HEADS AS NECESSARY TO ACCOMPLISH THE WORK.

**2ND FLOOR FIRE PROTECTION SCOPE OF WORK**

1. THE FIRE PROTECTION SCOPE OF WORK INVOLVES THE RELOCATION OF EXISTING SPRINKLER HEADS AND THE ADDITION OF NEW SPRINKLER HEADS AS SHOWN ON THE PLANS AS NECESSARY TO PROVIDE CODE COMPLIANT SPRINKLER COVERAGE THROUGHOUT THE RENOVATED SPACE.
2. THE EXISTING FIRE PROTECTION SYSTEM DOES NOT HAVE ANY ISOLATION SHUT-OFF VALVES FOR THE FIRE PROTECTION SYSTEM ON EACH FLOOR. CONTRACTOR SHALL DRAIN DOWN PORTIONS OF OR THE ENTIRE FIRE SPRINKLER SYSTEM AS REQUIRED AND SHALL PROVIDE FIRE WATCH FOR PORTIONS OF OR THE ENTIRE BUILDING AS REQUIRED BY THE CITY OF ORLANDO FIRE MARSHALL.

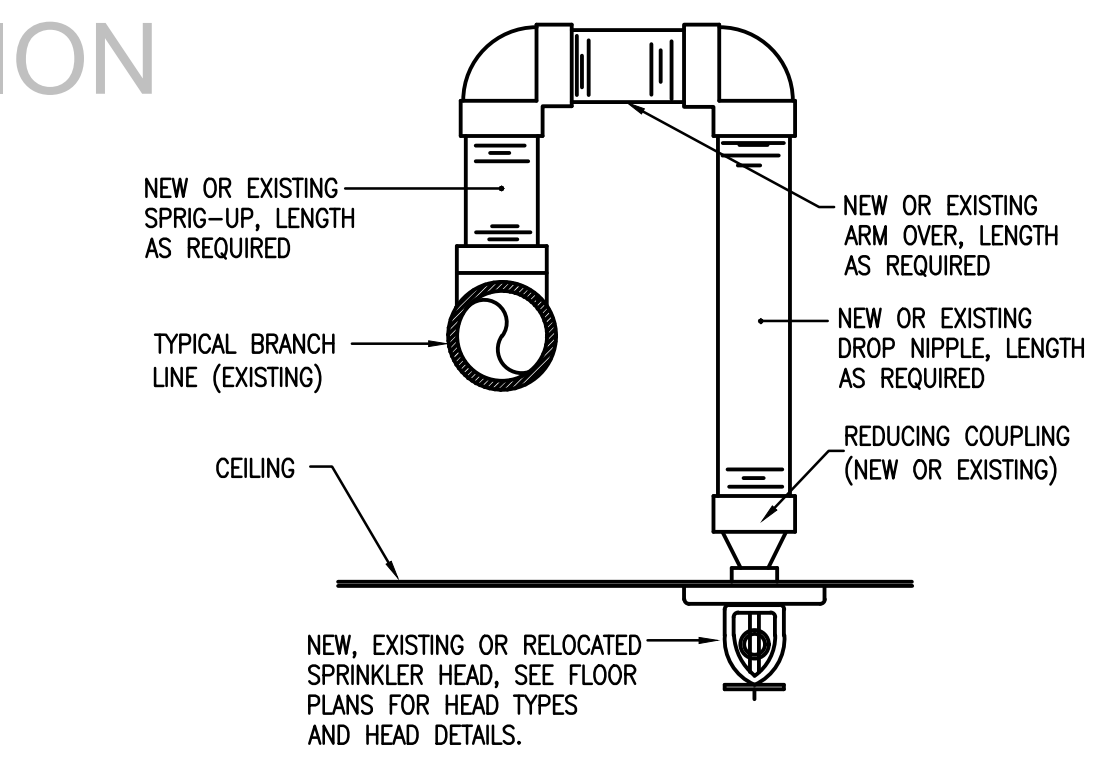
**FIRE PROTECTION KEY NOTES**

- 1 EXISTING UPRIGHT OR RECESSED SPRINKLER HEAD TO REMAIN.
- 2 RELOCATE EXISTING SPRINKLER HEAD TO NEW LOCATION AS PER PLANS. PROVIDE 1" ARM OVER - LENGTH AS NECESSARY.
- 3 NEW UPRIGHT OR RECESSED SPRINKLER HEAD TO MATCH EXISTING SPRINKLER HEADS - PROVIDE 1" BRANCH LINE FROM NEAREST SPRINKLER MAIN - LENGTH AS NECESSARY. FIELD VERIFY EXACT LOCATION OF SPRINKLER MAIN IN CEILING SPACE PRIOR TO BID.

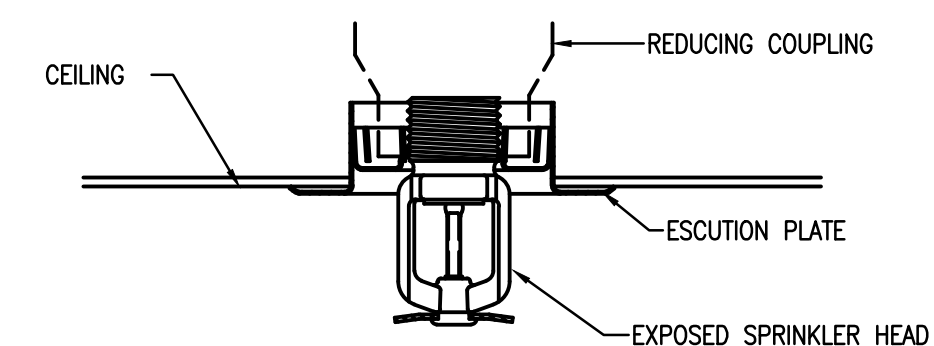
**FIRE PROTECTION SYMBOL LEGEND**

- EXISTING UPRIGHT SPRINKLER HEAD.
- RELOCATED UPRIGHT SPRINKLER HEAD.
- EXISTING RECESSED PENDANT SPRINKLER HEAD.
- NEW OR RELOCATED RECESSED PENDANT SPRINKLER HEAD.
- EXISTING FIRE SPRINKLER PIPING.
- NEW FIRE SPRINKLER PIPING.
- POINT OF CONNECTION NEW WORK TO EXISTING.

ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE NFPA CODES, STANDARDS AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:  
 2017 FLORIDA FIRE PREVENTION CODE (6TH EDITION)  
 NFPA 13, 2013 EDITION  
 LIFE SAFETY CODE - NFPA 101 - 2015  
 CITY OF ORLANDO FIRE MARSHALL



**ARM OVER DETAIL**  
NOT TO SCALE



(NOTES: USE IN ALL AREAS WITH CEILINGS, U.N.O.)  
**RECESSED PENDENT SPRINKLER HEAD**  
 NOT TO SCALE

1 2ND FLOOR PLAN - FIRE PROTECTION - RENOVATION  
 1/8" = 1'-0"

**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

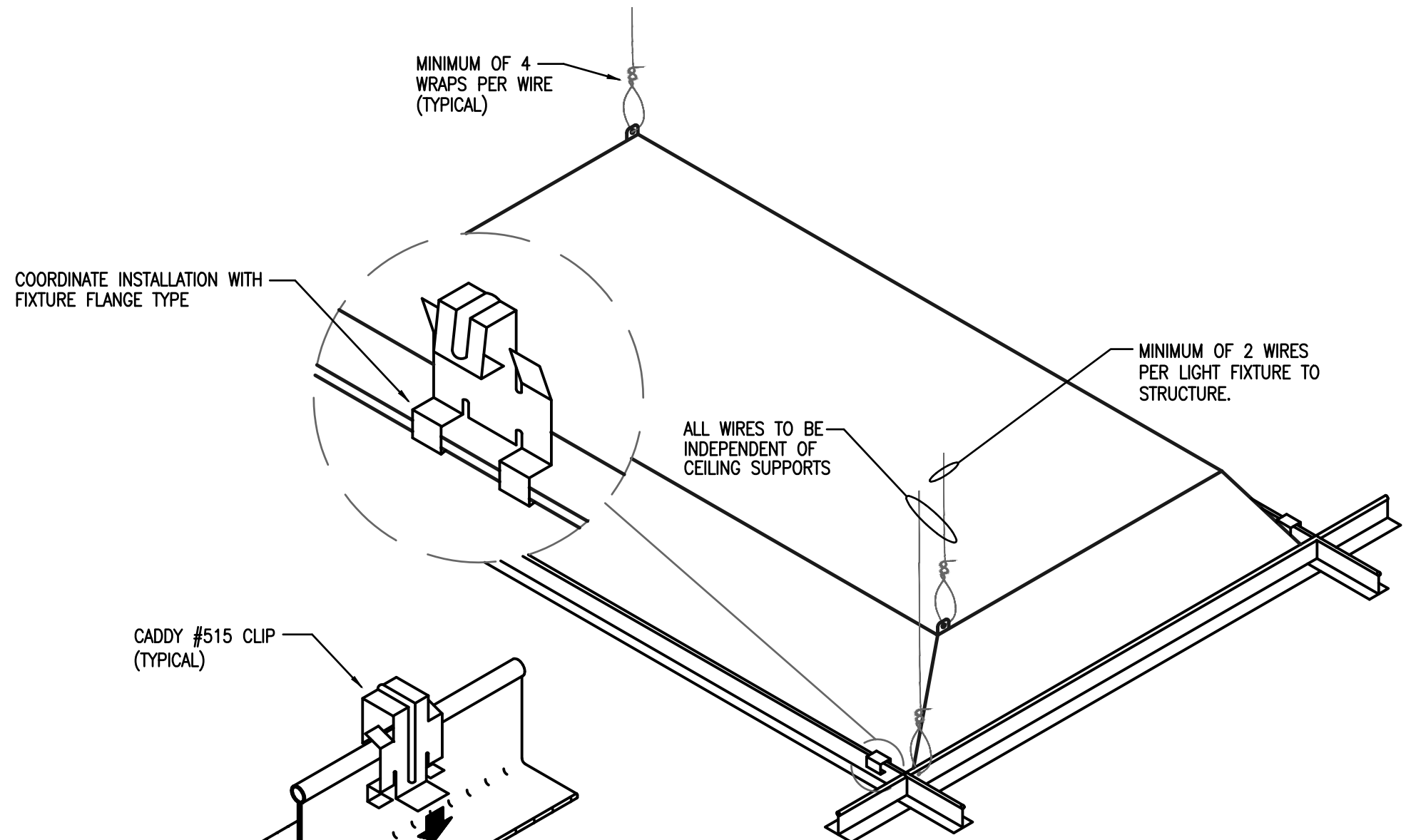
**OC SHERIFF'S IT SERVICES  
 RENOVATION FLOOR PLAN  
 FIRE PROTECTION**

REV.	DESCRIPTION	DATE	PROJECT ADDRESS
1	PERMIT COMMENTS 12.14.18		300 West Colonial Drive Orlando, Florida
SCALE	AS NOTED		
FILE NAME			
DRAWN BY	AB		
CHECKED BY	ABJ		
DATE	10.4.18		

**BORRELLI PARTNERS**  
 ARCHITECTURE PLANNING LANDSCAPE INTERIOR  
 770 VASSAR STREET  
 ORLANDO, FL 32804 (407) 418-1338

**BOBES ASSOCIATES**  
 CONSULTING ENGINEERS  
 1111 ORANGE BOULEVARD, SUITE 200  
 ORLANDO, FL 32839  
 P. E. AUGUSTO E. BOBES, JR.  
 FLORIDA P. E. # 39410

**FP101**



- NOTE:**
1. TYPICAL ALL H.I.D., FLUORESCENT & INCANDESCENT FIXTURES. PROVIDE 200 POUND TEST WIRE AT OPPOSING CORNERS OF FIXTURE (TOTAL OF 2) AND 2 CADDY #515 CLIPS PER SIDE (TOTAL OF 4).
  2. THIS DETAIL APPLIES TO ALL RELOCATED AND NEW LIGHT FIXTURES.

**TYPICAL LAY-IN FIXTURE MOUNTING DETAIL**  
NOT TO SCALE

**ELECTRICAL GENERAL NOTES**

1. BRANCH WIRING IS NOT SHOWN GRAPHICALLY ON DRAWING AND IS INDICATED BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT INDICATED GRAPHICALLY.
2. LIGHTING FIXTURES ARE SHOWN FOR QUANTITY AND CIRCUITING ONLY. FOR EXACT LOCATION OF LIGHTING FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE WORK WITH CEILING CONTRACTOR. PROVIDE PROPER FIXTURE FRAMES FOR TYPE OF CEILING INDICATED.
3. FOR EXACT ARCHITECTURAL LAYOUT AND DIMENSIONS, COORDINATE WITH ARCHITECTURAL DRAWINGS. ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY.
4. 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, THE CITY OF ORLANDO BUILDING DEPARTMENT, THE CITY OF ORLANDO'S FIRE MARSHALL'S OFFICE AND ALL REQUIREMENTS OF THE SERVING ELECTRIC UTILITY AND THE AMERICANS WITH DISABILITIES ACT (ADA).
5. COORDINATE ALL WORK DONE UNDER THIS DIVISION WITH WORK TO BE PERFORMED UNDER DIVISION 23.
6. COORDINATE WITH OTHER TRADES FOR EXACT LOCATIONS OF ALL MOTORS AND OTHER EQUIPMENT TO BE INSTALLED AND/OR WIRED UNDER THIS DIVISION BUT FURNISHED UNDER ANOTHER DIVISION OF THE SPECIFICATIONS.
7. ALL BRANCH CIRCUITS FOR 120 VOLT, 20 AMP CIRCUITS EXCEEDING EIGHTY FEET IN LENGTH SHALL BE INCREASED IN SIZE AS REQUIRED TO ALLOW FOR VOLTAGE DROP LOSSES.
8. PACK ALL SLEEVES FOR CONDUITS PASSING THROUGH FIRE RATED WALLS AND FLOOR SLABS WITH FIRE RESISTANT MATERIALS. ALL PENETRATIONS SHALL BE UL RATED.
9. ALL EMPTY CONDUITS (EC) SHALL BE PROVIDED WITH NYLON PULL WIRES.
10. TYPE AC CABLE AND ELECTRICAL NON-METALLIC TUBING SHALL NOT BE PERMITTED. TYPE MC CABLE IS PERMITTED AS LONG AS IT IS ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) (CITY OF ORLANDO).
11. COORDINATE THE REQUIRED SIZE OF ALL CIRCUIT BREAKERS FEEDING EQUIPMENT (I.E. MOTORS, HVAC, KITCHEN EQUIPMENT, SPECIAL PURPOSE OUTLETS, OWNER FURNISHED EQUIPMENT, ETC.) WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER REPRESENTATIVES PRIOR TO ORDERING PANELBOARDS. BREAKERS SHALL BE SIZED PER THE NEC, THE EQUIPMENT NAME PLATE AND MANUFACTURER'S RECOMMENDATIONS.
12. ALL CONDUITS IN OR UNDER SLAB OR UNDERGROUND SHALL BE PVC SCHEDULE 40.
13. ALL CONDUITS ABOVE SLAB, WHETHER EXPOSED OR CONCEALED, SHALL BE EMT, IMC, OR RIGID GALVANIZED STEEL.
14. FLEXIBLE METAL RACEWAYS SHALL NOT EXCEED 6' IN LENGTH.
15. "LIQUID-TIGHT" TYPE FLEXIBLE WEATHERPROOF RACEWAYS SHALL HAVE A METALLIC INTERIOR AND NOT EXCEED 6' IN LENGTH.
16. ALL BOXES, PLASTER RINGS, EXTENSION RINGS, AND BOX COVERS SHALL BE METAL.
17. ALL CONDUITS SHALL BE PARALLEL AND PERPENDICULAR TO STRUCTURAL MEMBERS.
18. ALL BENDS SHALL BE MADE IN CONDUIT USING PROPER EQUIPMENT AND MEET NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS.
19. ALL WIRE, INCLUDING BUT NOT LIMITED TO FEEDERS AND BRANCH CIRCUIT WIRING, SHALL BE COPPER - #12 AWG THWN MINIMUM EXCEPT FOR LOW-VOLTAGE WIRING FOR COMMUNICATIONS SYSTEMS, WHICH MAY BE SMALLER.
20. ALL DEVICES SHALL BE COMMERCIAL OR SPECIFICATION GRADE.
21. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY POWER AND TEMPORARY LIGHTING DURING CONSTRUCTION. TEMPORARY POWER SHALL PROVIDE ADEQUATE POWER FOR NORMAL CONSTRUCTION USE. TEMPORARY LIGHTING SHALL PROVIDE ADEQUATE LIGHT SO THAT THE INDIVIDUAL TRADES WORK CAN BE COMPLETED.
22. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED.
23. A GREEN INSULATED COPPER GROUND CONDUCTOR SHALL BE INSTALLED IN ALL RACEWAYS.
24. GROUNDING SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250 AND APPLICABLE REQUIREMENTS OF IEEE STANDARDS 142 AND 241.
25. CONDUCTORS ARE SIZED FOR VOLTAGE DROP PER N.E.C. ARTICLES 210.19(A) NOTE 4, 215.2(A)(1)NOTE 2 AND THE 2017 F.B.C. ENERGY CONSERVATION CODE C405.6.3. ELECTRICAL CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS IN ACCORDANCE WITH N.E.C. ARTICLES 210.19(A)(1)NOTE 4, 215.2(A)NOTE 2 AND THE 2017 F.B.C. ENERGY CONSERVATION CODE C405.6.3 ON ANY CIRCUITS THAT ARE INSTALLED THAT DIFFER FROM THE DESIGN SHOWN IN THESE PLANS. FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS SHALL EACH BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AND A COMBINED MAXIMUM VOLTAGE DROP OF 5% TOTAL.
26. LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS PER FIELD TECHNICAL INFORMATION NO. 40. LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE ONE 12 GAGE HANGER WIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING MORE THAN 10 POUNDS SHALL HAVE TWO 12 GAGE WIRES ATTACHED AT OPPOSING CORNERS OF EACH LIGHT FIXTURE.
27. THE CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL SHOP DRAWING SUBMITTAL TO THE ENGINEER FOR REVIEW AND APPROVAL. THE ELECTRICAL SUBMITTAL SHALL INCLUDE ALL ELECTRICAL PANELS, MDP'S, BREAKERS, DISCONNECTS, DEVICES, RECEPTACLES, CONDUIT, RACEWAYS, LIGHT FIXTURES, POLES, SWITCHES, OCCUPANCY SENSORS, PULL BOXES, WIRING ETC. CONTRACTOR SHALL NOT ORDER ANY ELECTRICAL 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 ELECTRICAL SHOP DRAWING SUBMITTAL SHALL RESULT IN AN IMMEDIATE REJECTION OF THE SHOP DRAWING SUBMITTAL.

**ELECTRICAL SCOPE OF WORK**

1. THE ELECTRICAL SCOPE OF WORK FOR THIS PROJECT CONSISTS OF THE RELOCATION AND ADDITION OF LIGHT FIXTURES AND ASSOCIATED LIGHT SWITCHES AND OCCUPANCY SENSORS AS WELL AS THE RELOCATION OF POWER RECEPTACLES TO ACCOMMODATE THE CREATING OF NEW ENCLOSED OFFICES OUT OF EXISTING OPEN OFFICE AREAS.
2. THE ELECTRICAL SCOPE INCLUDES THE ADDITION OF POWER FOR A NEW VARIABLE AIR VOLUME BOX AND FOR THE ADDITION OF A FIRE PROTECTION TAMPER SWITCH AND FLOW SWITCH.
3. THE ELECTRICAL SCOPE INCLUDES THE ADDITION OF FIRE ALARM SYSTEM MONITORING OF THE NEW TAMPER SWITCH AND FLOW SWITCH LOCATED ON THE 1ST FLOOR. SEE SHEET FP100 (KEY NOTE 6) FOR MORE INFORMATION. CONTRACTOR TO INCLUDE THIS FIRE ALARM SCOPE IN THE BID.

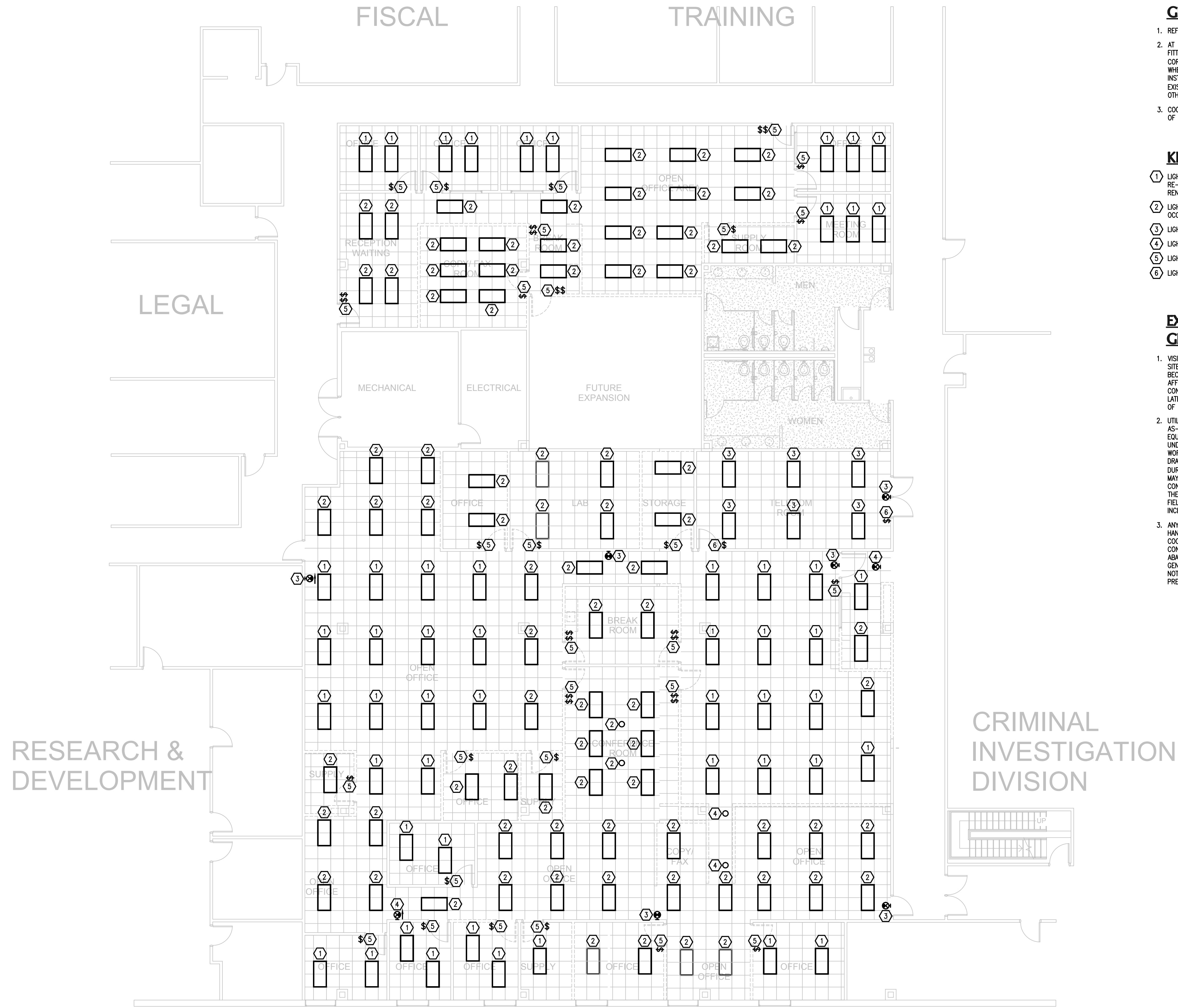
**SYMBOL LIST**

(SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT)

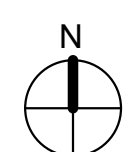
- A-1 RECESSED FLUORESCENT FIXTURE
- SURFACE MOUNTED FLUORESCENT FIXTURE
- WALL MOUNTED FLUORESCENT FIXTURE
- DOWNLIGHT OR PENDANT FIXTURE
- WALL MOUNTED INCANDESCENT, FLUORESCENT OR HID FIXTURE
- EXIT SIGN. ARROW INDICATES DIRECTIONAL ARROW ON FIXTURE
- ⊕ EMERGENCY FIXTURE
- ☉ PHOTOCELL
- ⊕ SINGLE POLE SWITCH, SUBSCRIPT LETTER INDICATES FIXTURE CONTROLLED. (3 = 3 WAY, 4 = 4 WAY, K = KEY OPERATED) MOUNTED 48" AFF
- ⊕ DIMMER SWITCH, TYPE AND WATTAGE TO CONTROL FIXTURE
- ⊕ OCCUPANCY SENSOR
- ⊕ QUAD RECEPTACLE
- ⊕ 20A, 2 POLE, 125V GROUNDED DUPLEX RECEPTACLE. 18" AFF UNLESS OTHERWISE NOTED. G = GROUND FAULT INTERRUPTER
- ⊕ 20A, 2 POLE, 125V GROUNDED DUPLEX RECEPTACLE. MOUNTED ABOVE COUNTERTOP UNLESS OTHERWISE NOTED.
- ⊕ SPECIAL RECEPTACLE
- ⊕ TELEPHONE WALL OUTLET 18" AFF UNLESS OTHERWISE NOTED. PROVIDE 1" EC TO CEILING SPACE.
- ⊕ TELEPHONE AND DATA DUPLEX OUTLET, LEVITON CAT. #41688-1 OR EQUAL. 18" AFF UNLESS OTHERWISE NOTED. PROVIDE 1" EC TO CEILING SPACE.
- ⊕ TELEVISION OUTLET WITH 1" EC TO TTB. 18" AFF UNLESS OTHERWISE NOTED.
- ⊕ CEILING MOUNTED JUNCTION BOX
- ⊕ WALL MOUNTED JUNCTION BOX
- ⊕ POWER OUTLET FOR MODULAR FURNITURE
- ⊕ DATA OUTLET FOR MODULAR FURNITURE
- ⊕ COMMUNICATIONS OUTLET FOR MODULAR FURNITURE
- ⊕ CONNECTION TO EQUIPMENT
- ⊕ PUSHBUTTON
- ⊕ MOTOR HORSEPOWER RATED TOGGLE SWITCH BY DIVISION 15
- ⊕ 2P/60A/NF NONFUSED DISCONNECT SWITCH. NUMBERS INDICATE SWITCH SIZE.
- ⊕ FUSED DISCONNECT SWITCH. FUSES SIZED AS SHOWN ON DRAWINGS.
- ⊕ MOTOR
- ⊕ PANELBOARD
- ⊕ FIRE ALARM CONTROL PANEL
- ⊕ FIRE ALARM ANNUNCIATOR PANEL
- ⊕ INTERCOM
- ⊕ CEILING SPEAKER
- ⊕ WALL-MOUNTED SPEAKER
- ⊕ TELEPHONE TERMINAL BOARD (TTB)
- ⊕ FIRE ALARM STROBE LIGHT, MOUNTED 80" AFF
- ⊕ FIRE ALARM MANUAL PULL STATION, MOUNTED 48" AFF
- ⊕ FIRE ALARM HORN WITH STROBE LIGHT, MOUNTED 80" AFF
- ⊕ SPRINKLER FLOW SWITCH
- ⊕ SPRINKLER TAMPER SWITCH
- ⊕ KEY LOCK BOX
- ⊕ HEAT DETECTOR
- ⊕ DUCT SMOKE DETECTOR
- ⊕ SMOKE DETECTOR
- ⊕ HOOD FIRE SUPPRESSION SYSTEM PULL STATION
- ⊕ AHU FIRE ALARM SHUTDOWN RELAY
- AFB ABOVE FINISHED FLOOR
- FF FINISHED FLOOR
- AHU AIR HANDLING UNIT
- EC EMPTY CONDUIT
- EF EXHAUST FAN
- EMC ELECTRIC WATER COOLER
- EWH ELECTRIC WATER HEATER
- G GROUND FAULT INTERRUPTER
- CU CONDENSING UNIT
- WP WEATHERPROOF (NEMA-3R)
- NL NIGHT LIGHT
- ST SHUNT TRIP
- IG ISOLATED GROUND

**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

SIGNATURE AND DATED SEAL		CONSULTANTS	
<b>OC SHERIFF'S IT SERVICES ELECTRICAL SYMBOL LIST &amp; GENERAL NOTES</b>			
PROJECT NO.	17-147	PROJECT ADDRESS	2300 West Colonial Drive, Orlando, Florida
PHASE	100% CONSTRUCTION BOSS	DATE	
SCALE	AS NOTED	DESCRIPTION	
FILE NAME		REV.	
DRAWN BY	WNC	17-147	
CHECKED BY	ABJ	10-4-18	
DATE			



1 DEMOLITION FLOOR PLAN - LIGHTING  
1/8" = 1'-0"



**GENERAL NOTES**

- REFER TO COMPLETE GENERAL NOTES ON SHEET E001.
- AT HIS DISCRETION, CONTRACTOR MAY REUSE EXISTING CONDUIT, FITTINGS, AND BOXES WHICH ARE FREE FROM DEBRIS AND CORROSION AND ARE CONSIDERED IN "LIKE-NEW" CONDITION. WHERE EXISTING CONDUIT ROUTING DOES NOT ACCOMMODATE INSTALLATION OF NEW WORK, NEW CONDUIT SHALL BE INSTALLED. EXISTING CONDUCTORS/WIRING SHALL NOT BE REUSED UNLESS OTHERWISE NOTED ON PLANS.
- COORDINATE WITH ARCHITECTURAL DEMOLITION PLAN FOR EXTENT OF WALLS AND CEILINGS TO BE REMOVED OR RENOVATED.

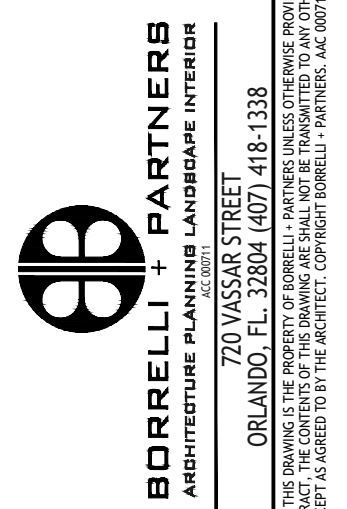
**KEY NOTES**

- LIGHTING FIXTURE TO REMAIN AT PRESENT LOCATION AND BE RE-CIRCUITED FOR OCCUPANCY SENSOR CONTROL. SEE RENOVATION PLAN.
- LIGHTING FIXTURE TO BE RELOCATED AND RE-CIRCUITED FOR OCCUPANCY SENSOR CONTROL. SEE RENOVATION PLAN.
- LIGHTING FIXTURE TO REMAIN AS-IS.
- LIGHTING FIXTURE TO BE DISCONNECTED AND REMOVED.
- LIGHTING SWITCHES TO BE DISCONNECTED AND REMOVED.
- LIGHTING SWITCH TO REMAIN AS-IS.

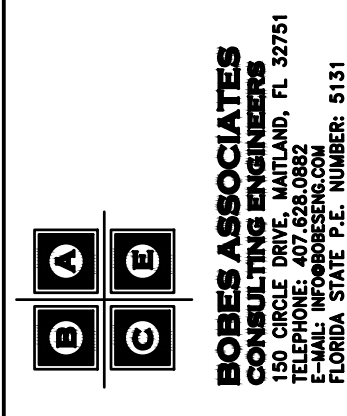
**EXISTING CONDITIONS**

**GENERAL NOTES**

- VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- UTILITIES AND SERVICES INDICATED ARE TAKEN FROM FIELD SURVEYS AND AS-BUILT PLANS. IT IS TO BE UNDERSTOOD THAT SOME SYSTEMS AND EQUIPMENT MAY NOT BE SHOWN ON THE PLAN. IT IS ALSO TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING; AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER, MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATION SHALL BE CONSIDERED AS PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC. PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
- ANY ENVIRONMENTAL/ASBESTOS ACTIVITIES AND ABATEMENT SHALL BE HANDLED BY A FLORIDA LICENSED ABATEMENT CONTRACTOR AND COORDINATED WITH THE CONTRACTOR PRIOR TO ANY DEMOLITION. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION BETWEEN THE ABATEMENT AND NEW CONSTRUCTION TO MINIMIZE MOBILIZATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ON-SITE WRITTEN NOTIFICATION TO ALL SUBCONTRACTORS AND LABORERS AS TO THE PRESENCE OF ANY IDENTIFIED ASBESTOS CONTAINING BUILDING MATERIAL.



SIGNATURE AND DATED SEAL  
 AUGUSTO E. ROBES, JR., P.E.  
 FLORIDA P.E. # 39410



OC SHERIFF'S OFFICE IT SERVICES RENOVATION

DRAWING TITLE  
 OC SHERIFF'S IT SERVICES  
 DEMOLITION FLOOR PLAN - LIGHTING

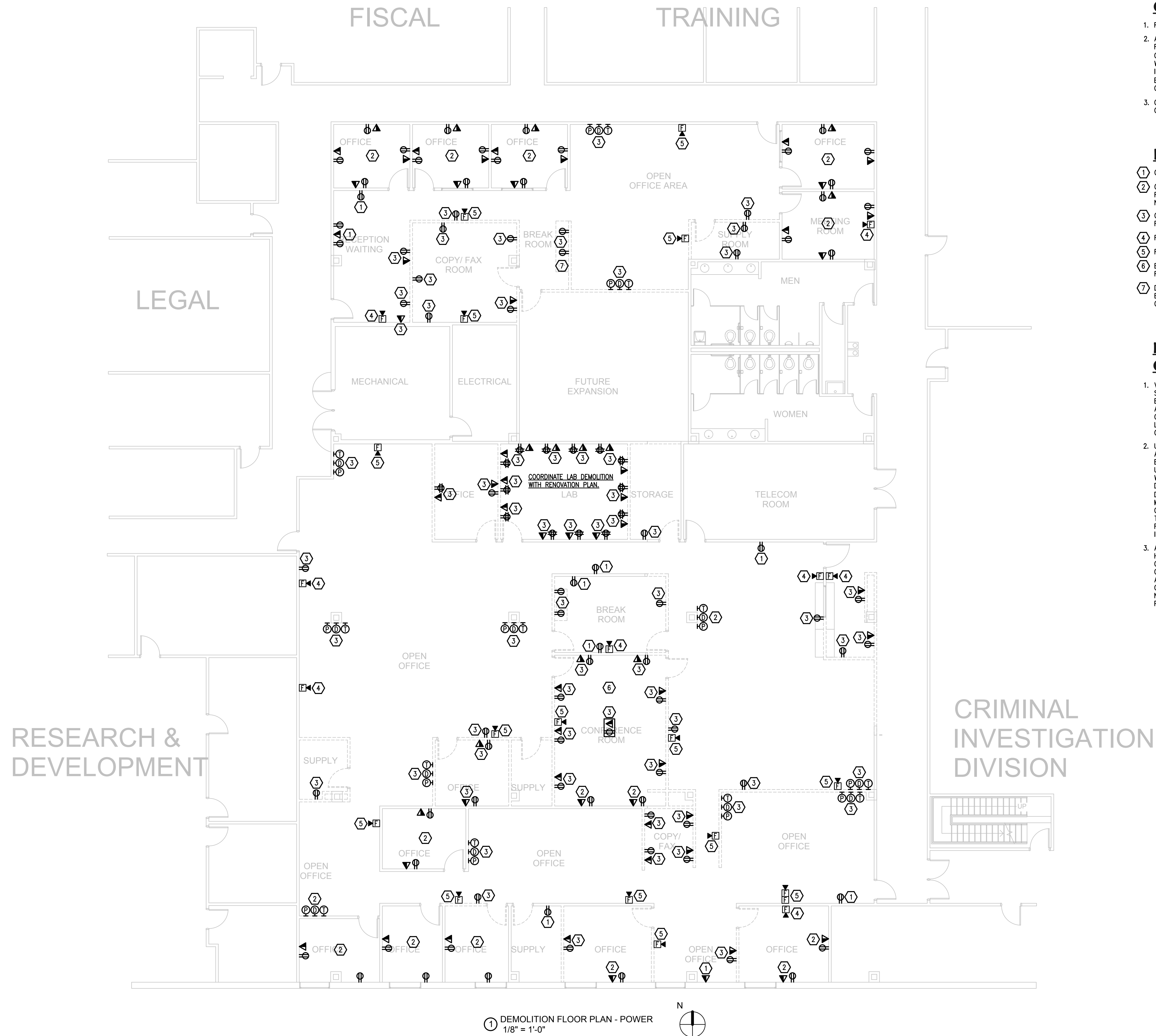
PROJECT ADDRESS  
 2300 West Colonial Drive  
 Orlando, Florida

OWNER NAME AND ADDRESS  
 Orange County Sheriff's Office

REV.	DESCRIPTION	DATE
17-147	100% CONSTRUCTION DECS	
	AS NOTED	

PROJECT NO. 17-147  
 PHASE 100% CONSTRUCTION DECS  
 SCALE AS NOTED  
 FILE NAME  
 DRAWN BY WNC  
 CHECKED BY ABJ  
 DATE 10.4.18

ED101



1 DEMOLITION FLOOR PLAN - POWER  
1/8" = 1'-0"

**GENERAL NOTES**

- REFER TO COMPLETE GENERAL NOTES ON SHEET E001.
- AT HIS DISCRETION, CONTRACTOR MAY REUSE EXISTING CONDUIT, FITTINGS, AND BOXES WHICH ARE FREE FROM DEBRIS AND CORROSION AND ARE CONSIDERED IN "LIKE-NEW" CONDITION. WHERE EXISTING CONDUIT ROUTING DOES NOT ACCOMMODATE INSTALLATION OF NEW WORK, NEW CONDUIT SHALL BE INSTALLED. EXISTING CONDUCTORS/WIRING SHALL NOT BE REUSED UNLESS OTHERWISE NOTED ON PLANS.
- COORDINATE WITH ARCHITECTURAL DEMOLITION PLAN FOR EXTENT OF WALLS AND CEILINGS TO BE REMOVED OR RENOVATED.

**KEY NOTES**

- OUTLET TO REMAIN AS-IS.
- OUTLETS TO REMAIN EXCEPT THAT THE POWER RECEPTACLE TO BE RECIRCUITED FOR AUTOMATIC CONTROL. MUST BE REPLACED WITH NEW RECEPTACLES WITH PROPER MARKING. SEE RENOVATION PLAN.
- OUTLETS TO BE REMOVED ALONG WITH CONDUIT AND WIRING. RETAIN RECEPTACLE CIRCUIT FOR REUSE IN RENOVATION.
- FIRE ALARM DEVICE TO REMAIN AS-IS.
- FIRE ALARM DEVICE TO BE RELOCATED. SEE RENOVATION PLAN.
- EXISTING CEILING MOUNTED SPEAKERS TO BE SAVED FOR RELOCATION TO NEW CONFERENCE ROOM 79.
- DISCONNECT POWER FROM DISPOSAL TO BE RELOCATED TO NEW BREAK ROOM. REMOVE CONDUIT AND WIRING AND RETAIN CIRCUIT FOR REUSE IN RENOVATION.

**EXISTING CONDITIONS  
GENERAL NOTES**

- VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- UTILITIES AND SERVICES INDICATED ARE TAKEN FROM FIELD SURVEYS AND AS-BUILT PLANS. IT IS TO BE UNDERSTOOD THAT SOME SYSTEMS AND EQUIPMENT MAY NOT BE SHOWN ON THE PLAN. IT IS ALSO TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING; AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER, MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATION SHALL BE CONSIDERED AS PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC. PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
- ANY ENVIRONMENTAL/ASBESTOS ACTIVITIES AND ABATEMENT SHALL BE HANDLED BY A FLORIDA LICENSED ABATEMENT CONTRACTOR AND COORDINATED WITH THE CONTRACTOR PRIOR TO ANY DEMOLITION. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION BETWEEN THE ABATEMENT AND NEW CONSTRUCTION TO MINIMIZE MOBILIZATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ON-SITE WRITTEN NOTIFICATION TO ALL SUBCONTRACTORS AND LABORERS AS TO THE PRESENCE OF ANY IDENTIFIED ASBESTOS CONTAINING BUILDING MATERIAL.

**BORRELLI PARTNERS**  
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ORLANDO, FL 32804 (407) 418-1338  
CONSTRUCTION DRAWING: THE ARCHITECT'S PROFESSIONAL SEAL AND LICENSE NUMBER IS REQUIRED TO BE PLACED ON ALL DRAWINGS. THIS DRAWING IS NOT VALID UNLESS THE ARCHITECT'S PROFESSIONAL SEAL AND LICENSE NUMBER IS PLACED ON THIS DRAWING.

SIGNATURE AND DATED SEAL  
CONSULTANTS

**BOBES ASSOCIATES**  
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1121 ORCHARD AVE. SUITE 200  
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FLORIDA STATE P.E. NUMBER: 6131

**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

**OC SHERIFF'S IT SERVICES  
DEMOLITION FLOOR PLAN - POWER**

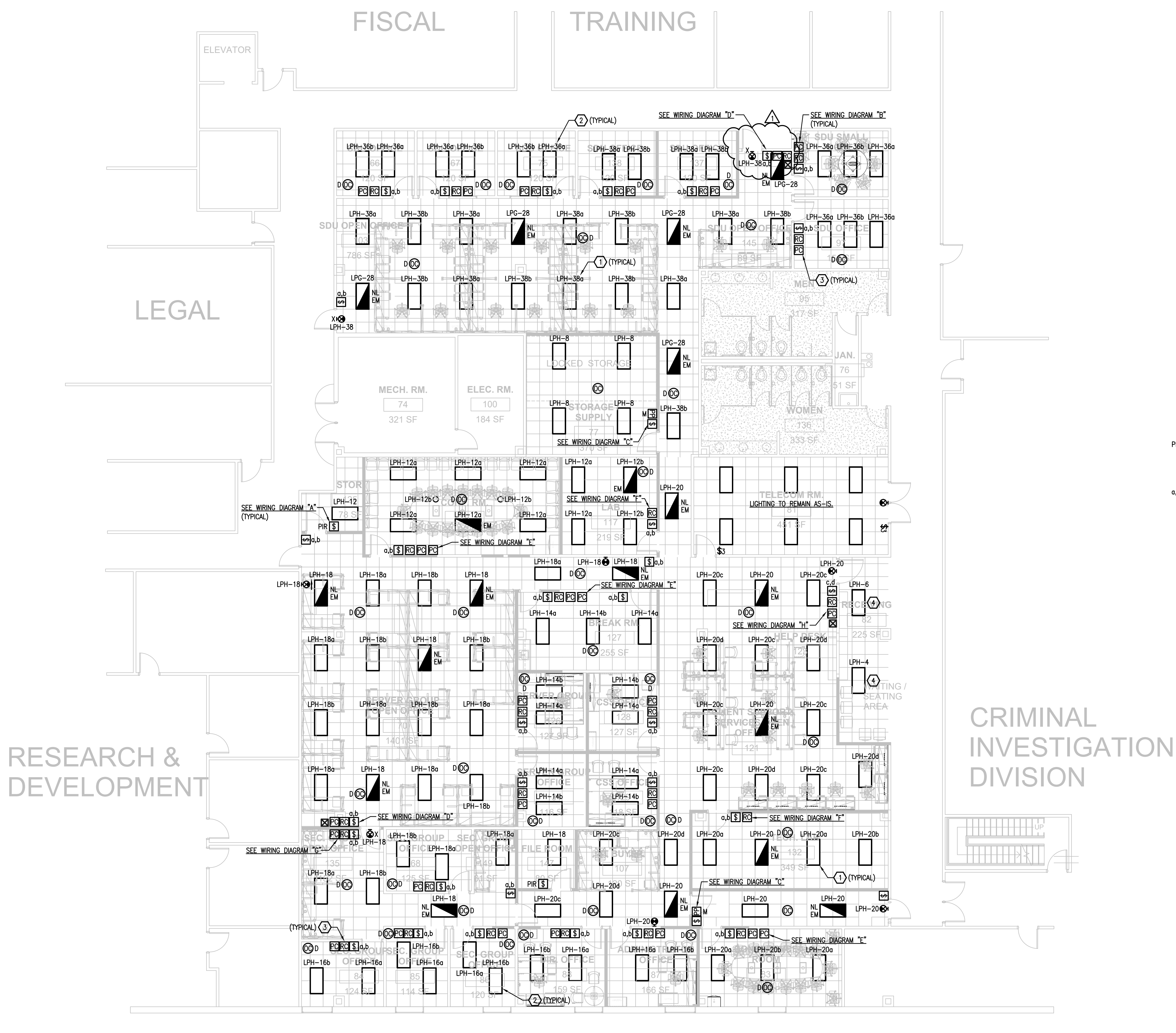
PROJECT ADDRESS  
2300 West Colonial Drive  
Orlando, Florida

OWNER NAME AND ADDRESS  
Orange County Sheriff's Office

REV.	DESCRIPTION	DATE	PROJECT ADDRESS
17-147	100% CONSTRUCTION BOSS		
	AS NOTED		
	FILE NAME		
	DRAWN BY		
	CHECKED BY		
	DATE		

**ED201**





1 2ND FLOOR PLAN - LIGHTING - RENOVATION  
1/8" = 1'-0"

**GENERAL NOTES**

- REFER TO COMPLETE GENERAL NOTES ON SHEET E001.
- COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN. COORDINATE WITH ARCHITECTURAL DEMOLITION PLAN FOR EXTENT OF WALLS AND CEILINGS TO BE REMOVED OR RENOVATED.
- CONNECT ALL EMERGENCY FIXTURE BALLASTS AND EXIT SIGNS TO LIGHTING CIRCUIT AHEAD OF ANY CONTROLS.
- LETTERS AND NUMBERS ON THE PLAN THAT ARE SHOWN NEXT TO DEVICES INDICATE THE PANEL AND CIRCUIT NUMBER FEEDING THAT DEVICE AND THE SWITCH CONTROLLING THAT DEVICE, EXAMPLE - LPH-36a.
- FOR LIGHTING CONTROL WIRING DIAGRAMS SEE SHEET E301 AND E302.
- DESIGN INTENT IS THAT ALL LIGHTING FIXTURES SHOWN ON THE PLAN ARE EXISTING TO BE REUSED FROM DEMOLITION. ANY FIXTURES THAT ARE NOT FUNCTIONING PROPERLY MUST BE REPAIRED OR REPLACED. IF NECESSARY, PROVIDE AND INSTALL A 3-LAMP, SEMI-SPECULAR, LOW IRRIDESCENT, 277V, PARABOLIC RECESSED FLUORESCENT LIGHTING FIXTURE TO MATCH EXISTING.

**KEY NOTES**

- CONNECT RELOCATED LIGHTING FIXTURE TO EXISTING LIGHTING CIRCUIT IN THE AREA. LIGHTING CIRCUIT NUMBERS WERE TAKEN FROM AS-BUILT PLANS AND MUST BE FIELD VERIFIED.
- RE-CIRCUIT EXISTING LIGHTING FIXTURE FOR OCCUPANCY SENSOR CONTROL.
- LOCATE POWER PACKS AND ROOM CONTROLLERS IN ACCESSIBLE SPACE ABOVE CEILING.
- FEED LIGHTING FIXTURE FROM EXISTING CORRIDOR LIGHTING CIRCUIT.

**WATTSTOPPER LEGEND**

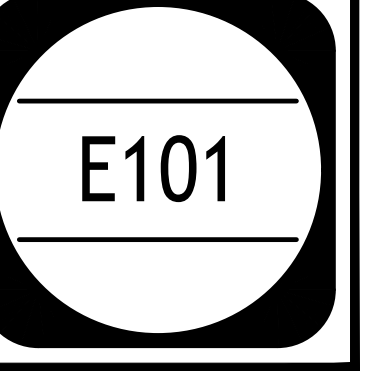
- PIR [S] PW-100-W, PASSIVE INFRARED WALL SWITCH SENSOR, 277VAC, 800 WATTS
- [S] LVSW-101-W, SERIES LOW VOLTAGE 1-BUTTON WALL SWITCH, 24VDC
- a.b [S] LMSW-102-W, DIGITAL 2-BUTTON WALL SWITCH, 24VDC, (2)RJ45 PORTS
- [D] DT-300 SERIES LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNT SENSOR, 24VDC
- [RC] LMRC-102, SERIES DIGITAL ON/OFF, DUAL RELAY ROOM CONTROLLER, 277VAC, 20 AMPS, CLASS 2 OUTPUT
- [PC] LMPL-101 DIGITAL PLUG LOAD ROOM CONTROLLER
- [M] BZ-150 UNIVERSAL VOLTAGE POWER PACK, AUTO OR MANUAL ON, 24VDC OUTPUT

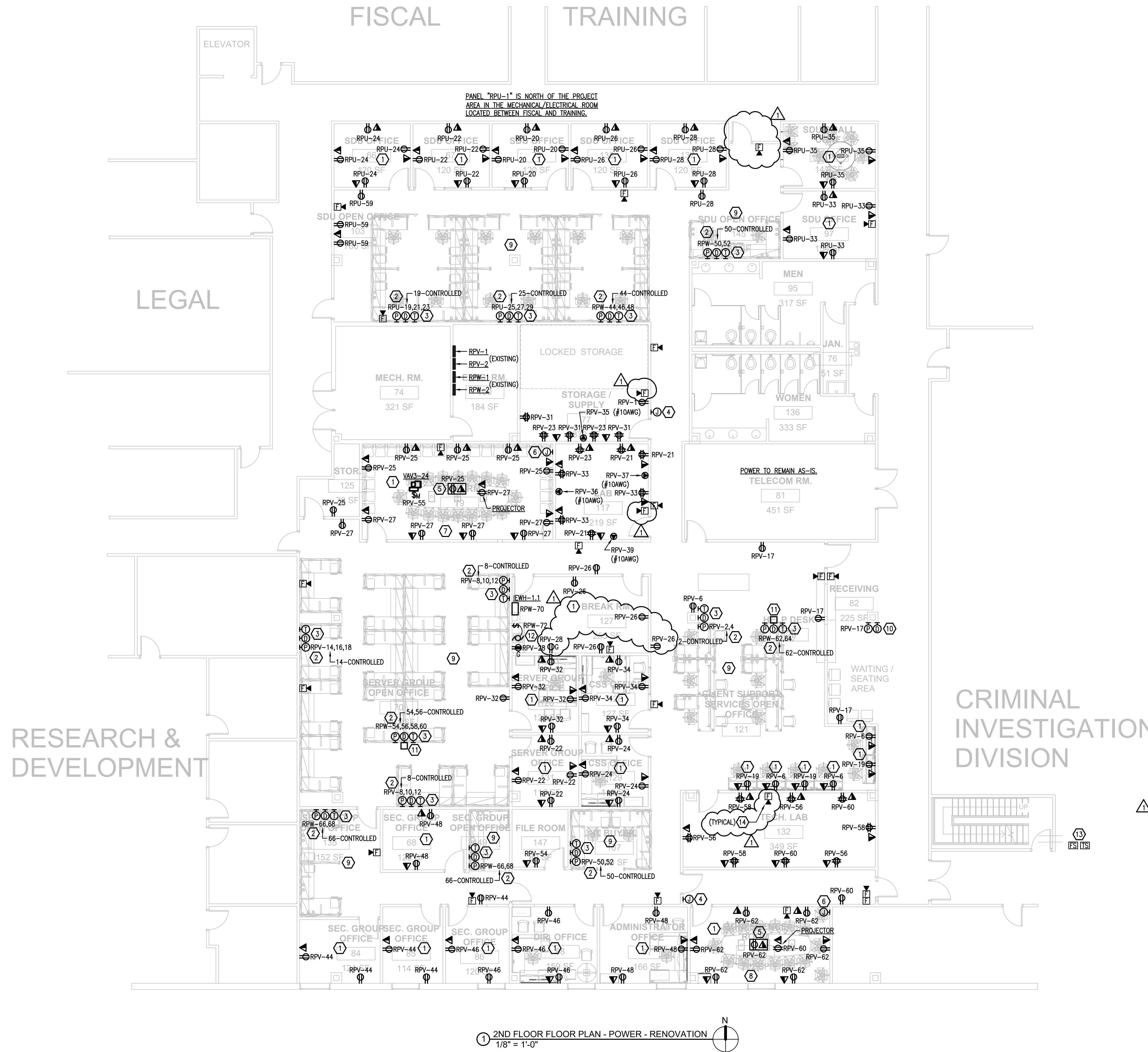
**OCCUPANCY SENSOR NOTES**

- THE BASIS OF LIGHTING CONTROL FOR THIS PROJECT IS COMPONENTS MANUFACTURED BY WATTSTOPPER, INC. ALL EQUIPMENT SHALL BE LOCATED, INSTALLED AND PROGRAMMED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- 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.

**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338		1111 ORANGE AVENUE, SUITE 200 ORLANDO, FL 32839 (407) 253-0508	
SIGNATURE AND DATED SEAL		CONSULTANTS	
AUGUSTO E. BOBES, JR., P.E. FLORIDA P.E. # 39410		BOBES ASSOCIATES CONSULTING ENGINEERS 1111 ORANGE AVENUE, SUITE 200 ORLANDO, FL 32839 FLORIDA STATE P.E. LICENSE NO. 8131	
DRAWING TITLE		OWNER NAME AND ADDRESS	
RENOVATION FLOOR PLAN - LIGHTING		Orange County Sheriff's Office	
PROJECT NO.	17-147	PROJECT ADDRESS	300 West Colonial Drive Orlando, Florida
PHASE	100% CONSTRUCTION DOC	DATE	PERMIT COMMENTS 12.14.18
SCALE	AS NOTED	REV.	1
FILE NAME		DESCRIPTION	
DRAWN BY	WNC	DATE	10.4.18
CHECKED BY	ABJ		





1 2ND FLOOR FLOOR PLAN - POWER - RENOVATION  
1/8" = 1'-0"

**GENERAL NOTES**

- REFER TO COMPLETE GENERAL NOTES ON SHEET E001.
- LETTERS AND NUMBERS ON THE PLAN THAT ARE SHOWN NEXT TO DEVICES INDICATE THE PANEL AND CIRCUIT NUMBER FEEDING THAT DEVICE. EXAMPLE - RPV-1. CIRCUIT NUMBERS WERE TAKEN FROM AS-BUILT PLANS AND EXISTING PANEL SCHEDULES AND MAY NOT BE COMPLETELY ACCURATE. DESIGN INTENT IS THAT ALL CIRCUIT NUMBERS SHOWN ON THE PLAN (AND CIRCUIT BREAKERS) ARE EXISTING TO BE REUSED FROM DEMOLITION. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TRACING OUT AND VERIFYING ALL CIRCUITS BEING USED AND SHALL MAKE ANY CHANGES AS MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL ALSO UPDATE THE CIRCUIT DIRECTORY IN EACH PANEL BEING USED.
- FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND EQUIPMENT POINT OF CONNECTION, REFER TO MECHANICAL DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS.
- ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED PER REQUIREMENTS OF NATIONAL ELECTRICAL CODE. CONTRACTOR IS TO VERIFY DISCONNECT SWITCH AND FUSE SIZES WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWING PRIOR TO PLACING ORDER AND PROVIDE EVERYTHING AS REQUIRED. CONTRACTOR IS TO COORDINATE ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER/OWNER'S PURCHASING AGENT/COMMISSIONING AGENT/ELECTRICAL ENGINEER PRIOR TO ORDERING EQUIPMENT AND INSTALLING ELECTRICAL OUTLETS FOR EQUIPMENT FURNISHED BY OTHERS TO ASSURE CORRECT ELECTRICAL REQUIREMENTS AND CONNECTIONS ARE PROVIDED.

**KEY NOTES**

- PROVIDE AUTOMATIC RECEPTACLE CONTROL IN THE ROOM TO COMPLY WITH THE FLORIDA ENERGY CODE AND ASHRAE 90.1. 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.
- PROVIDE AUTOMATIC RECEPTACLE CONTROL IN THE OFFICE TO COMPLY WITH THE FLORIDA ENERGY CODE AND ASHRAE 90.1. CONTROL ALL RECEPTACLES ON INDICATED CIRCUIT (AT LEAST 25% OF FEEDERS TO MODULAR FURNITURE). RECEPTACLES ARE CONTROLLED THRU LIGHTING OCCUPANCY SENSOR AND PLUG LOAD CONTROLLER. SEE DETAIL ON LIGHTING PLAN. PROVIDE CONTROLLED RECEPTACLES WITH THE APPROPRIATE MARKING.
- INSTALL NEW DATA/COMMUNICATIONS OUTLET TO MEET OWNER'S REQUIREMENTS FOR THE NEW SYSTEM FURNITURE LAYOUT IN THIS AREA. COORDINATE WITH THE OWNER FOR DATA/COMMUNICATIONS REQUIREMENTS.
- INSTALL OUTLET BOX 42" AFF FOR ACCESS CONTROL WITH 3/4" CONDUIT STUBBED OUT ABOVE CEILING. INSTALL 1/2" FLEXIBLE CONDUIT FROM ABOVE CEILING INTO DOOR FRAME ON STRIKE SIDE. ACCESS CONTROL COMPONENTS WILL BE OWNER FURNISHED AND INSTALLED.
- PROVIDE AND INSTALL FLUSH OUTLET BOX IN FLOOR WITH ALL NECESSARY COMPONENTS, WIREMOLD #880M2 (OR EQUAL). COORDINATE EXACT LOCATION WITH OWNER.
- INSTALL OUTLET BOX 18" AFF FOR A/V CONNECTIONS TO THE PROJECTOR WITH 1" CONDUIT STUBBED OUT ABOVE CEILING.
- INSTALL EXISTING CEILING MOUNTED SPEAKERS FROM OLD CONFERENCE ROOM PER MANUFACTURER'S INSTRUCTIONS.
- INSTALL (2) OWNER FURNISHED CEILING MOUNTED SPEAKERS PER MANUFACTURER'S INSTRUCTIONS.
- SYSTEM FURNITURE IS FURNISHED PRE-WIRED. CONTRACTOR TO STUB OUT WHIP FROM WALL AND MAKE FINAL CONNECTIONS TO PRE-WIRED SYSTEM FURNITURE. DATA VENDOR TO PROVIDE ALL CABLING AND FINAL CONNECTIONS TO SYSTEM FURNITURE.
- INSTALL POWER AND DATA OUTLETS ON COLUMN NEAR CEILING FOR TELEVISION.
- INSTALL WIREMOLD TWO-COMPARTMENT TELE-POWER POLE SIZED TO ACCOMMODATE POWER, DATA AND TELEPHONE LINES TO SYSTEM FURNITURE.
- INSTALL POWER FOR RELOCATED DISPOSAL.
- CONNECT NEW TAMPER AND FLOW SWITCHES ON NEW SPRINKLER RISER AT FIRST FLOOR TO EXISTING FIRE ALARM CONTROL PANEL. SEE FIRE PROTECTION PLANS.
- INSTALL NEW FIRE ALARM DEVICES AS REQUIRED TO BE COMPATIBLE WITH EXISTING FIRE ALARM CONTROL PANEL.

**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

PROJECT NO. 17-147		DATE 12.14.18	PROJECT ADDRESS 330 West Colonial Drive, Orlando, Florida
PHASE 100% CONSTRUCTION	REV. 1	DESCRIPTION PERMIT COMMENTS	OWNER NAME AND ADDRESS Orange County Sheriff's Office
SCALE AS NOTED	FILE NAME	DRAWN BY WNC	OWNER NAME AND ADDRESS Orange County Sheriff's Office
CHECKED BY	DATE 10.4.18		

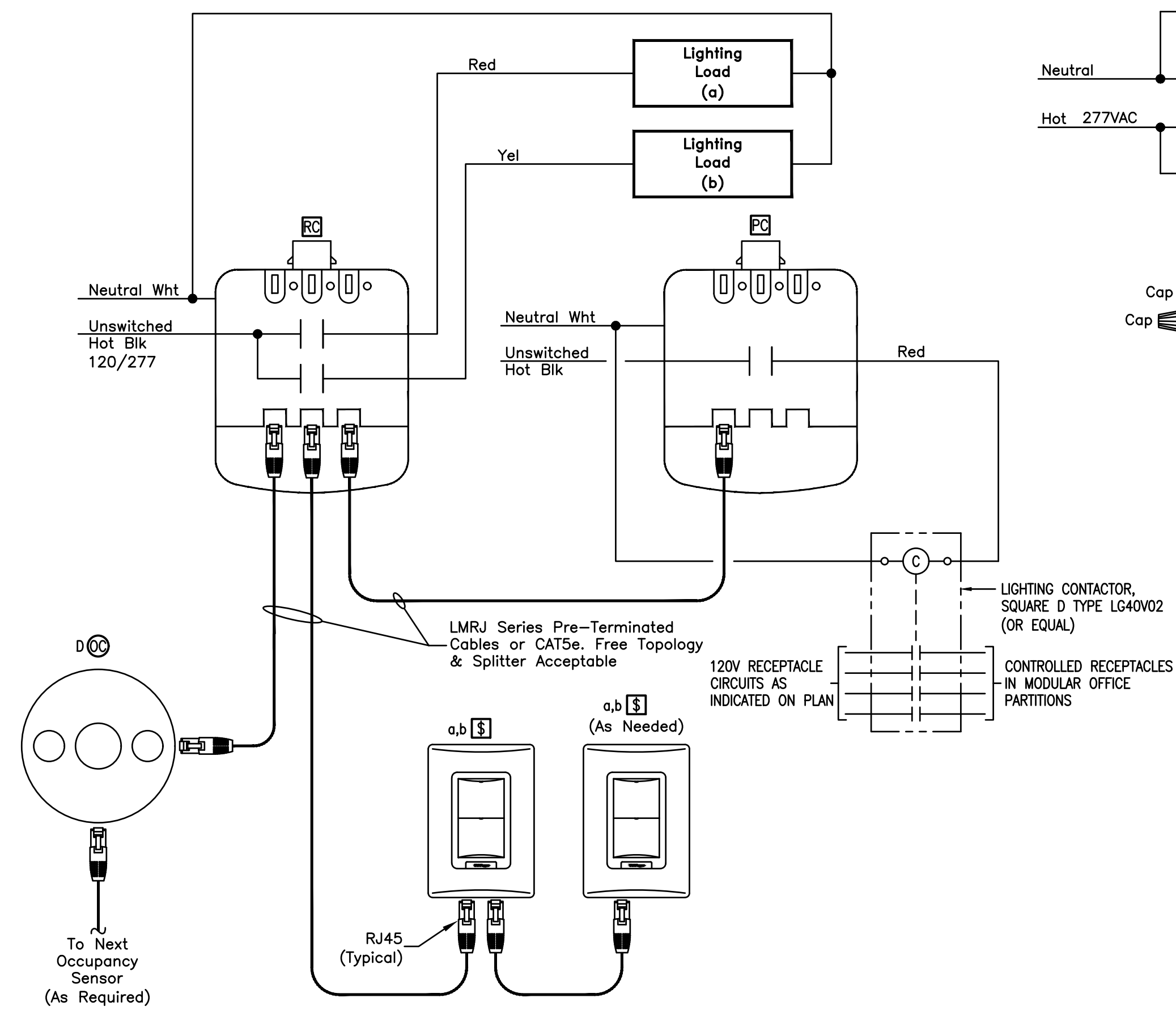
E201

**BORRELLI PARTNERS**  
ARCHITECTURE PLANNING LANDSCAPE INTERIOR  
770 VASSAR STREET  
ORLANDO, FL 32804 (407) 418-1338

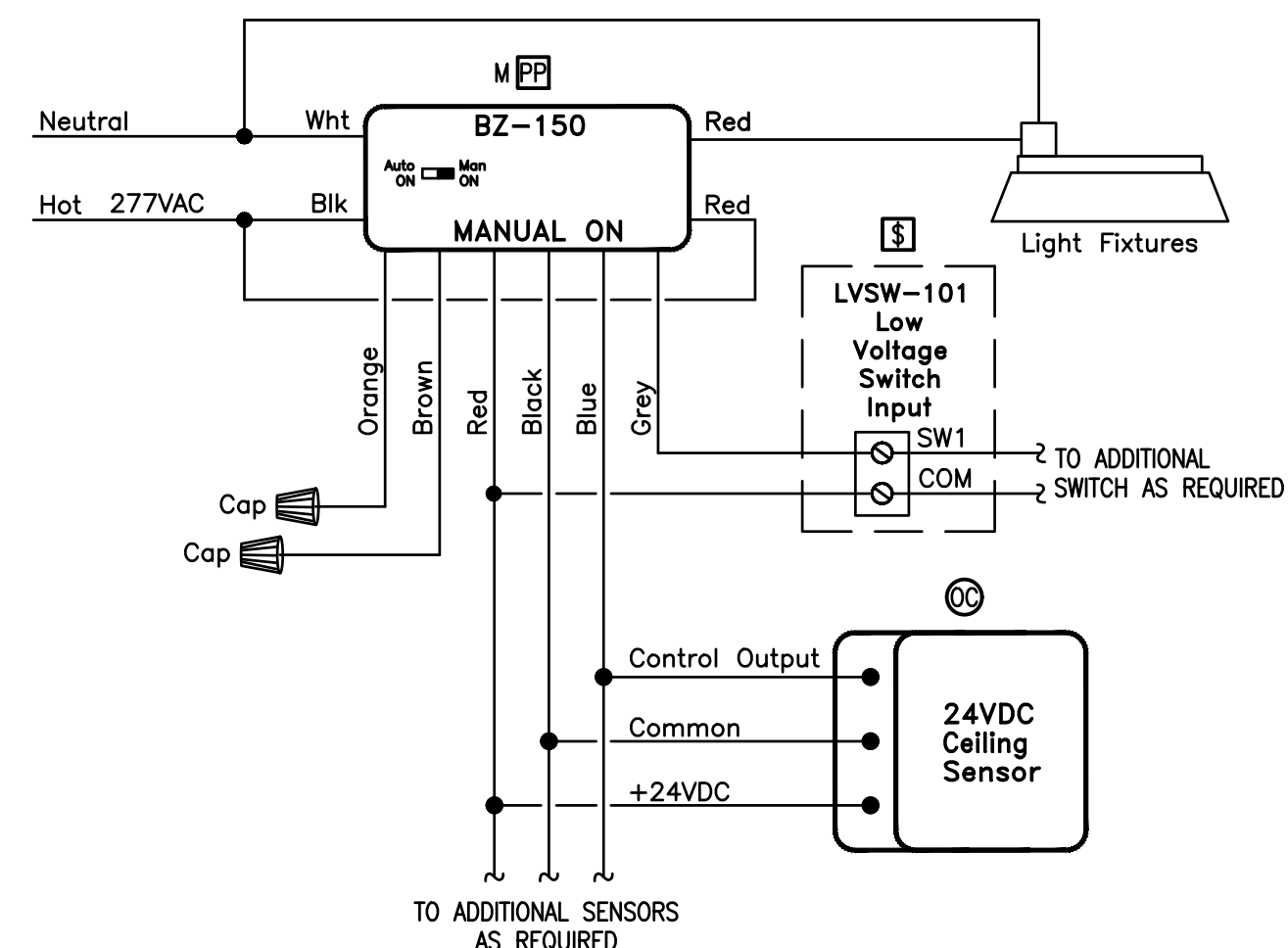
**BOBES ASSOCIATES**  
CONSULTING ENGINEERS  
1111 ORANGE AVE. SUITE 200  
ORLANDO, FL 32801  
FLORIDA LICENSE NO. 1331

**OC SHERIFF'S IT SERVICES**  
RENOVATION FLOOR PLAN - POWER

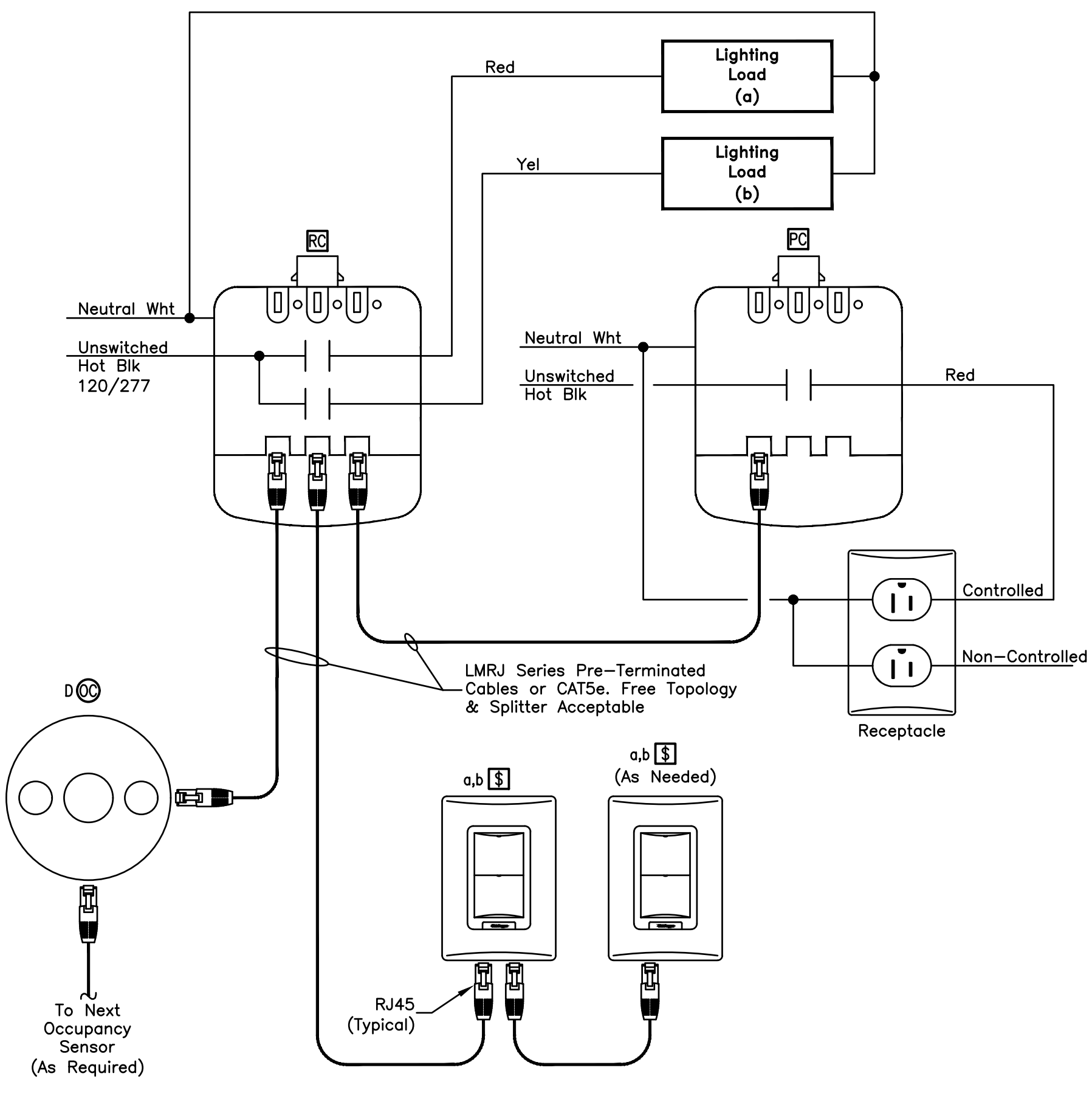
SIGNATURE AND DATED SEAL



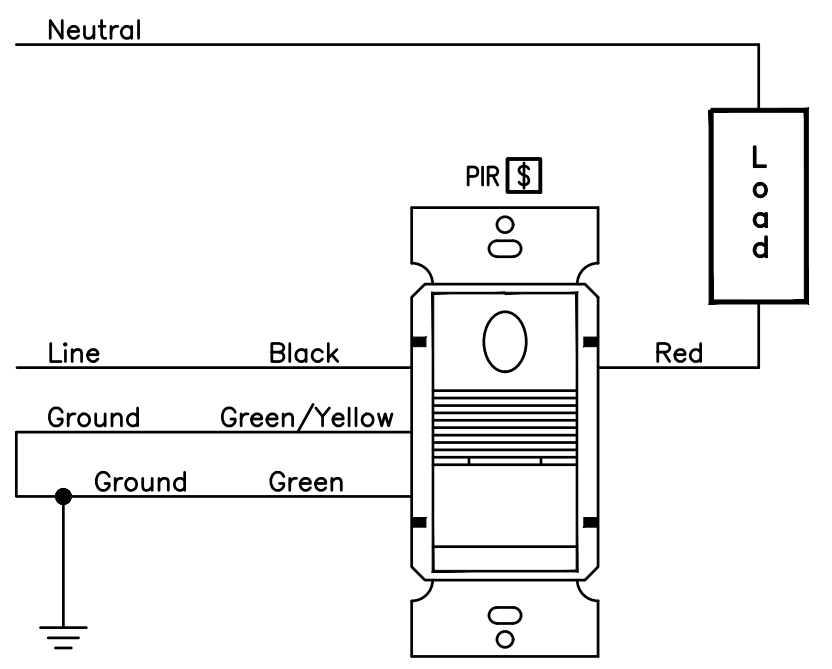
**LIGHTING CONTROL WIRING DIAGRAM 'D'**



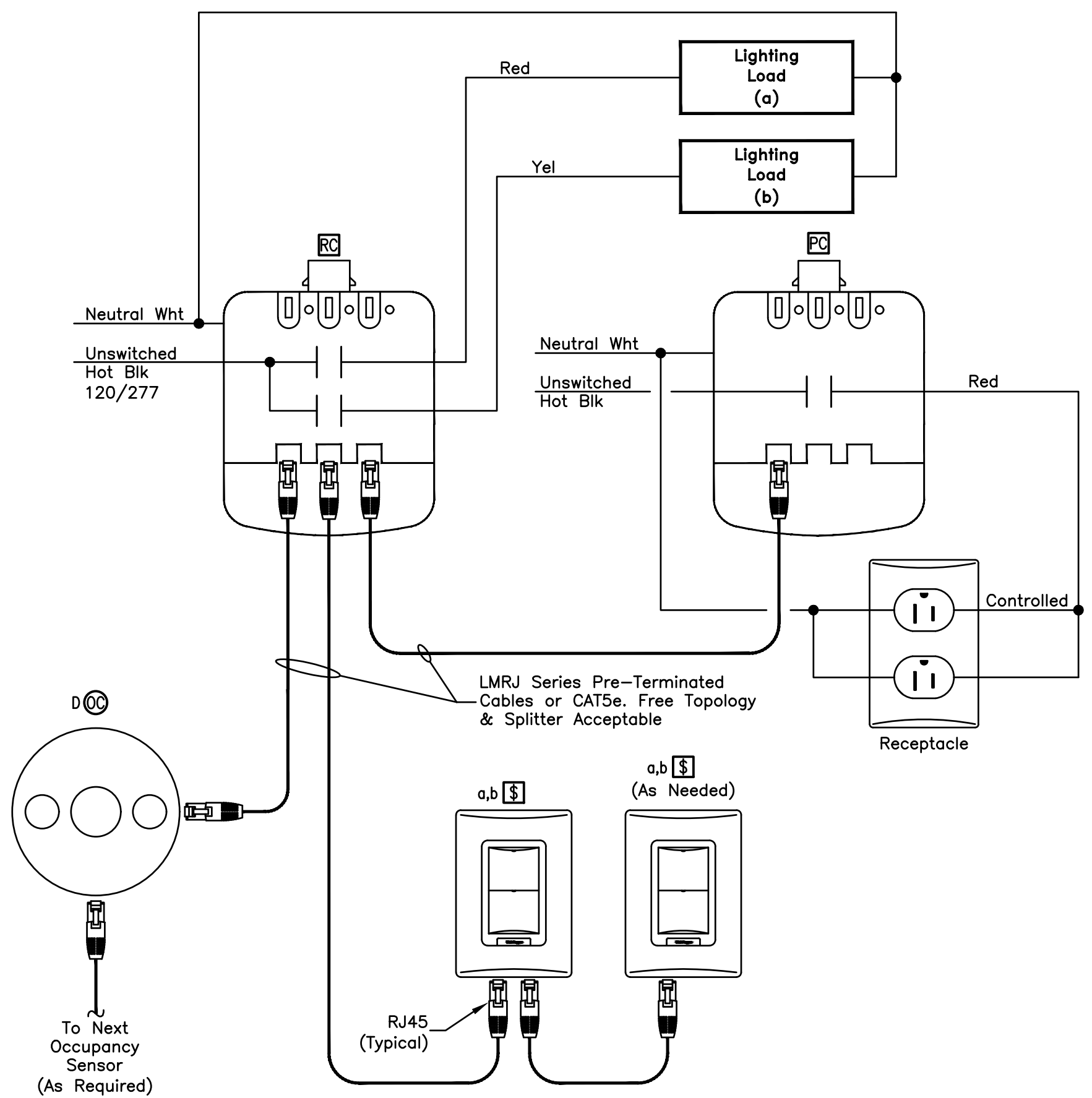
**LIGHTING CONTROL WIRING DIAGRAM 'C'**



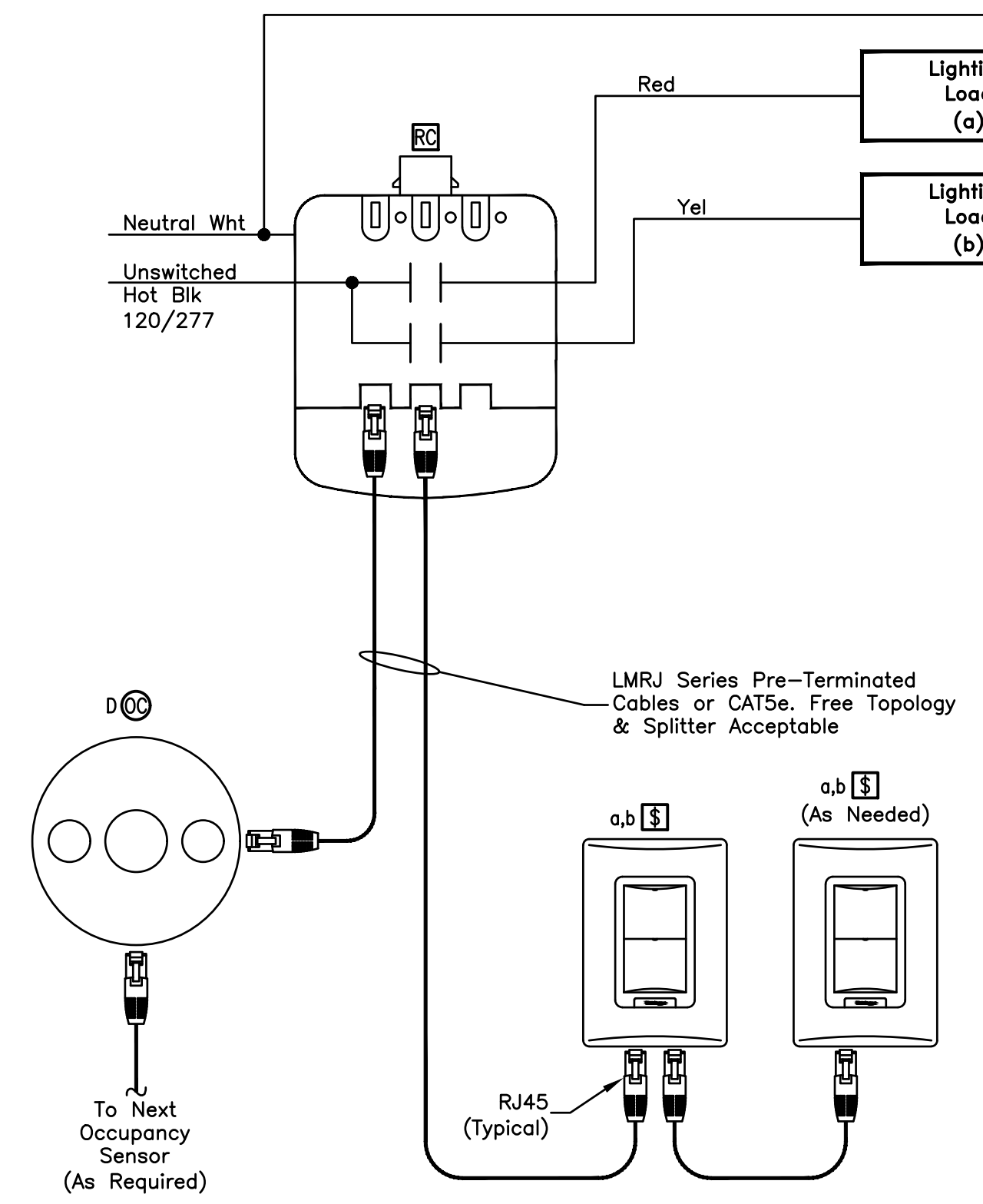
**LIGHTING CONTROL WIRING DIAGRAM 'B'**



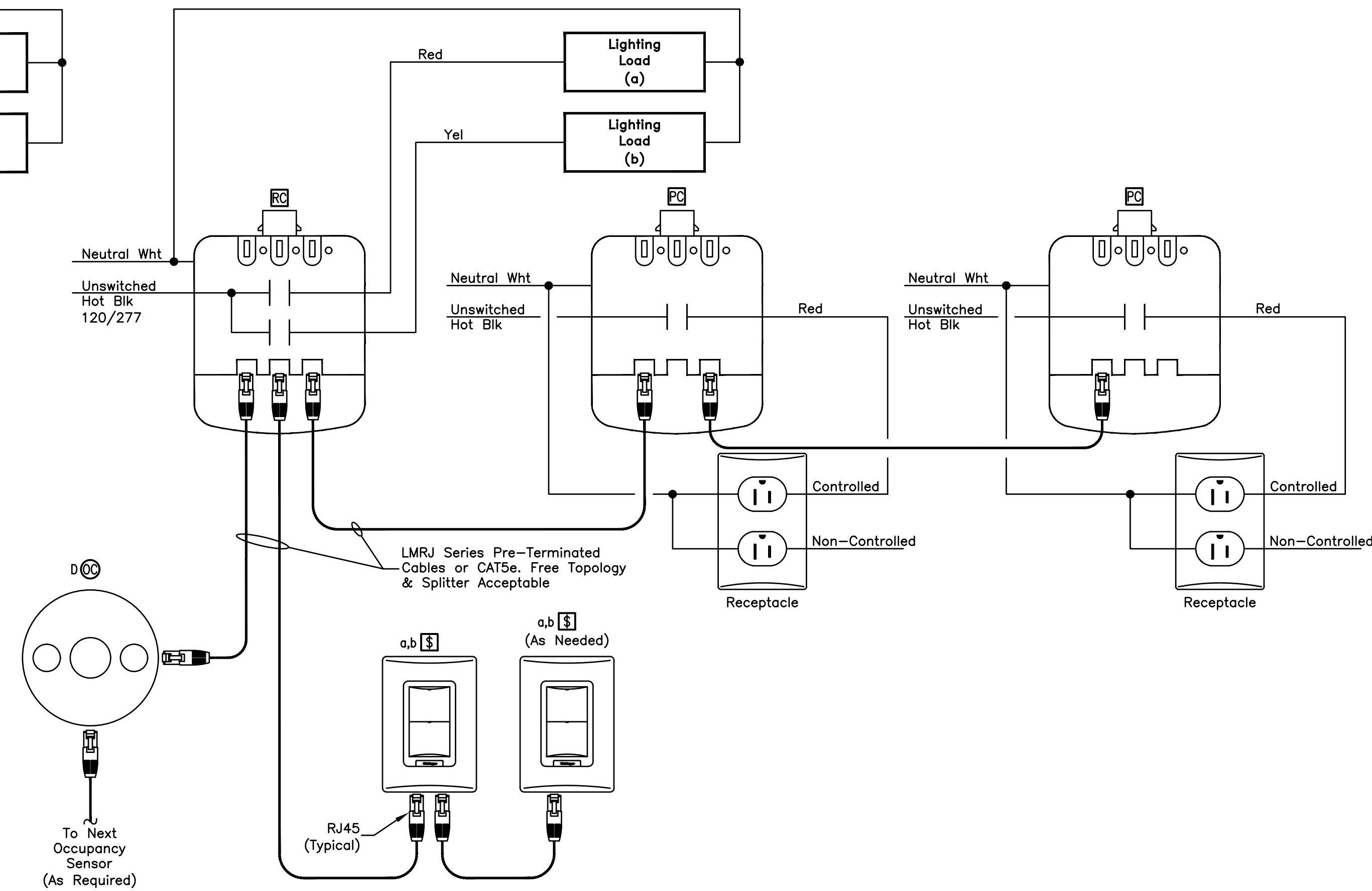
**LIGHTING CONTROL WIRING DIAGRAM 'A'**



**LIGHTING CONTROL WIRING DIAGRAM 'G'**



**LIGHTING CONTROL WIRING DIAGRAM 'F'**



**LIGHTING CONTROL WIRING DIAGRAM 'E'**

**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

SIGNATURE AND DATED SEAL

CONSULTANTS

OC SHERIFF'S IT SERVICES LIGHTING CONTROL WIRING DIAGRAMS

PROJECT ADDRESS

DATE

DESCRIPTION

REV.

PROJECT NO.

PHASE

SCALE

FILE NAME

DRAWN BY

CHECKED BY

DATE

2300 West Colonial Drive  
Orlando, Florida

DATE

DESCRIPTION

REV.

PROJECT NO.

PHASE

SCALE

FILE NAME

DRAWN BY

CHECKED BY

DATE

OWNER NAME AND ADDRESS

DATE

DESCRIPTION

REV.

PROJECT NO.

PHASE

SCALE

FILE NAME

DRAWN BY

CHECKED BY

DATE

**BORRELLI PARTNERS**  
ARCHITECTURE PLANNING LANDSCAPE INTERIOR

770 VASSAR STREET  
ORLANDO, FL 32804 (407) 418-1338

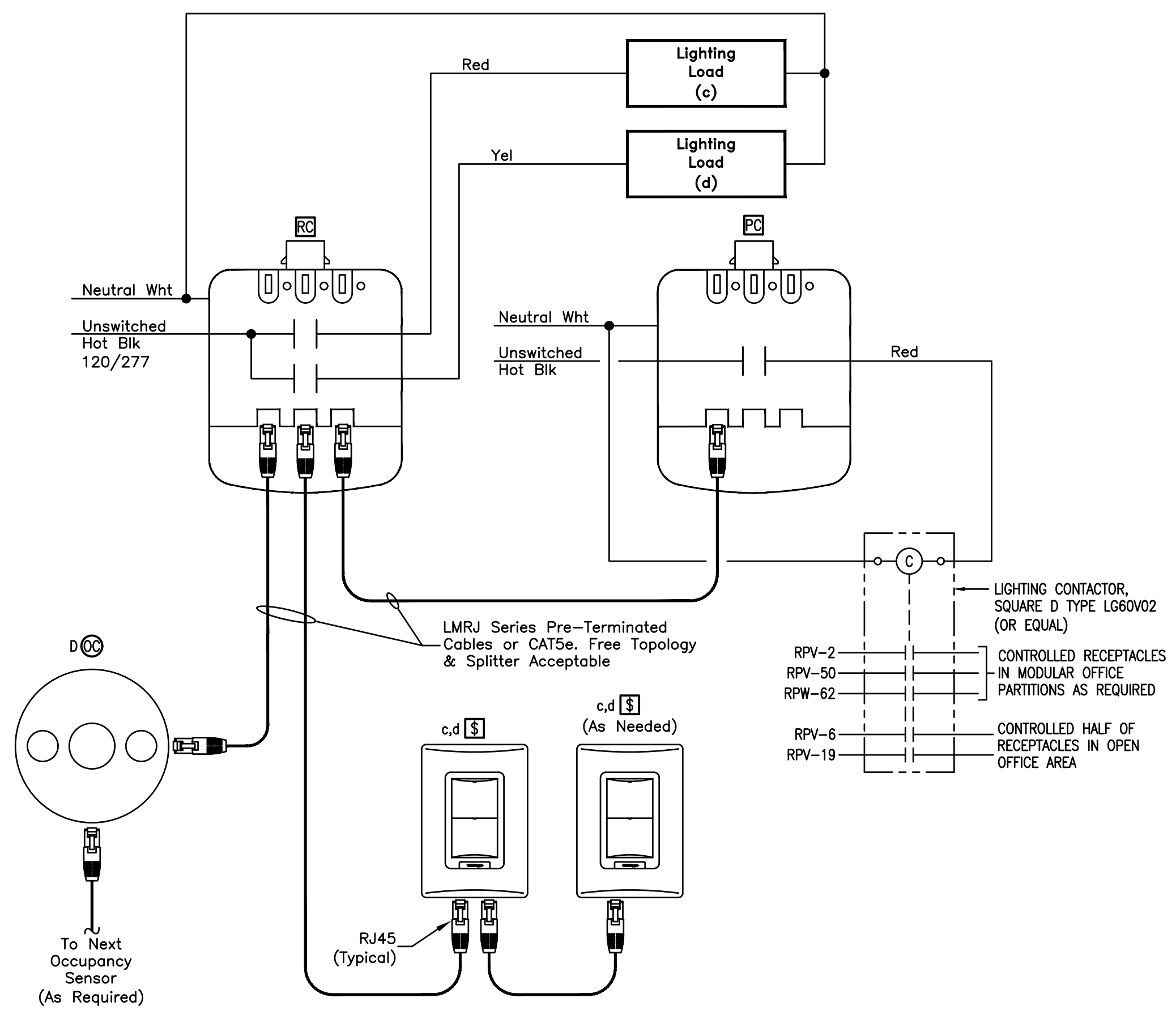
**BOBES ASSOCIATES**  
CONSULTING ENGINEERS

1101 ORANGE AVENUE, SUITE 200  
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PHONE: 407-251-2008  
FAX: 407-251-2009  
E-MAIL: BOBES@BOBES.COM  
FLORIDA STATE P.E. NUMBER: 8131

**OC SHERIFF'S IT SERVICES**  
LIGHTING CONTROL WIRING DIAGRAMS

PROJECT NO.	PHASE	SCALE	FILE NAME	DRAWN BY	CHECKED BY	DATE
17-147	100% CONSTRUCTION DOCUMENTS	AS NOTED				10.4.18

**E301**



**LIGHTING CONTROL WIRING DIAGRAM "H"**

E302

PROJECT NO.	17-147
PHASE	100% CONSTRUCTION
SCALE	AS NOTED
FILE NAME	
DRAWN BY	WNC
CHECKED BY	ABJ
DATE	10.4.18

REV.	DESCRIPTION	DATE	PROJECT ADDRESS
			2300 West Colonial Drive Orlando, Florida
			OWNER NAME AND ADDRESS Orange County Sheriff's Office

DRAWING TITLE  
**OC SHERIFF'S IT SERVICES RENOVATION**

CONSULTANTS  
**BOBES ASSOCIATES CONSULTING ENGINEERS**  
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ORLANDO, FL 32814  
PHONE: 407.251.0208  
FAX: 407.251.0209  
FLORIDA STATE LICENSE: 5131

OC SHERIFF'S IT SERVICES  
**LIGHTING CONTROL WIRING DIAGRAMS**

SIGNATURE AND DATED SEAL  
AUGUSTO E. BOBES, JR., P.E.  
FLORIDA P.E. # 39410

**BOBELL PARTNERS**  
ARCHITECTURE PLANNING LANDSCAPE INTERIOR  
770 VISSER STREET  
ORLANDO, FL 32804 (407) 418-1338  
CONSULTING ENGINEERING FIRM REGISTERED WITH THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS  
BY PARTY ACCEPTED AS AUTHORIZED BY THE ARCHITECT: COPPELLO BAMBELLI PARTNERS, S.A.C. 000171

Panel Directory RPV-1	
1 Security	2 Recept 2401
3 Security	4 Recept 2402
5 Existing	6 Recept 2402
7 Existing	8 Recept 2402
9 Spare	10 Recept 2402
11 Spare	12 Recept 2402
13 Recept 2411,2415	14 Recept 2402,2404
15 Recept 2411,2412,2413	16 Lights 2403,2404
17 Recept 2415	18 Recept 2403,2404
19 Copy Fax 2419	20 Recept 2420,2418,2417
21 Copy Fax 2419	22 Recept 2417,2419,2420
23 Copy Fax 2419	24 Recept 2417,2418,2420
25 Copy Fax 2419	26 GFCI 2421
27 Copy Fax 2419	28 GFCI 2421
29 Copy Fax 2419	30 Disposal 2421
31 Recept 2426 Meeting rm	32 Disposal 2406
33 Recept 2426 Meeting rm	34 Security Camera
35 Recept 2426	36 Door Security
37 Spare	38 RPU-2
39 Door Security	40 RPU-2
41 Spare	42 RPU-2

**PANEL 'RPV-1' EXISTING CIRCUIT DIRECTORY**  
INSTALL NEW CIRCUIT DIRECTORY TO INDICATE NEW LOAD DESCRIPTIONS.

CIRCUIT DIRECTORY RPV-1	
1 Mechanical	2 Open Office 2131
3 Fire Power Module	4 Open Office 2131
5 Fire Alarm	6 Op. Office 2131
7 Toilets 2103	8 Open Office 2134
9 Toilets 2102	10 Open Office 2134
11 Telecom 2104	12 Open Office 2134
13 Telecom 2104	14 Open Office 2134
15 Telecom 2104	16 Open Office 2134
17 Help Desk 2132	18 Open Office 2134
19 Open Office 2131	20 Open Office 2115
21 Lab 2106	22 Open Office 2115
23 Lab 2106	24 Open office 2115
25 Office 2107	26 Break Room 2126
27 Office 2108	28 Break Room 2126
29 Booster Pump	30 Break Room 2126
31 Lab 2106	32 Conference Room 2125
33 Lab 2106	34 Conference Room 2125
35 Lab 2106	36 Lab 2106
37 Lab 2106	38 Lab 2106
38 Lab 2106	39 Lab 2106
39 Lab 2106	40 EF-5/EF-11
41 Lab 2106	42 Camera Area F 2132

**PANEL 'RPV-1' EXISTING CIRCUIT DIRECTORY**  
INSTALL NEW CIRCUIT DIRECTORY TO INDICATE NEW LOAD DESCRIPTIONS.

CIRCUIT DIRECTORY RPV-2	
43 VAV-3	44 Office 2136
45 VAV-3	46 Office 2136
47 UPS Telecom	48 Open Office 2122
49 UPS Telecom	50 Open Office 2122
51 AHU-3A	52 Copy Fax 2127
53 AHU-3A	54 Copy Fax 2127
55 Recept 2131	56 Open Office 2130
57 Telecom Recept	58 Open Office 2130
59 Telecom Recept	60 Open Office 2128
61 Telecom Recept	62 Office 2129
63 Telecom Recept	64 Telecom Rack
65 Telecom Recept	66 Automated Door System
67 Telecom Recept	68 Automated Door System
69 Telecom Recept	70 Telecom Rack 2104
71 Telecom Recept	72 Telecom Rack 2104
73 Lab Recept	74 Telecom Rack 2104
75 Spare	76 Spare
77 Telecom Recept	78 Spare
79 Telecom Recept	80 Spare
81 Telecom Recept	82 Computer Lab
83 Telecom Recept	84 Computer Lab

**PANEL 'RPV-2' EXISTING CIRCUIT DIRECTORY**  
INSTALL NEW CIRCUIT DIRECTORY TO INDICATE NEW LOAD DESCRIPTIONS.

Panel Directory RPW-2	
43 Spare	44 Spare
45 Spare	46 Spare
47 Spare	48 Spare
49 Spare	50 Spare
51 Spare	52 Spare
53 Spare	54 Spare
55 Spare	56 Spare
57 Spare	58 Spare
59 Spare	60 Spare
61 Spare	62 Spare
63 Spare	64 Spare
65 Spare	66 Spare
67 Spare	68 Spare
69 Spare	70 Spare
71 Spare	72 Spare
73 Open Area 2425	74 Spare
75 Open Area 2425	76 Spare
77 Open Area 2425	78 Spare
79 Open Area 2425	80 Spare
81 Open Area 2425	82 Spare
83 Open Area 2425	84 Spare

**PANEL 'RPW-2' EXISTING CIRCUIT DIRECTORY**  
INSTALL NEW CIRCUIT DIRECTORY TO INDICATE NEW LOAD DESCRIPTIONS.

**PANEL IS EXISTING**

PANEL LOCATION: ELEC. ROOM 100		PANEL DESIGNATION: RPV		VOLTAGE: 208Y/120V, 3Ø, 4W		AIC RATING: EXISTING	
PANEL FED FROM: MDP		PANELBOARD RATING: 225A		MANUFACTURER: CUTLER-HAMMER		MOUNTING: FLUSH	
		MAINS: 225A MAIN BREAKER		STYLE: PRL1A		NEMA TYPE: 1	
LOAD DESCRIPTION	WATTS PER PHASE			BKR	POLE	CKT	LOAD DESCRIPTION
	PH A	PH B	PH C				
MECHANICAL	540			20	1	1	RECEPTS-OPEN OFFICE 121
FIRE POWER MODULE		240		20	1	3	RECEPTS-OPEN OFFICE 121
FIRE ALARM		240		20	1	5	RECEPTS-OPEN OFFICE 121
TOILETS 2103	360			20	1	7	RECEPTS-OPEN OFFICE 70
TOILETS 2102		360		20	1	9	RECEPTS-OPEN OFFICE 70
TELECOM 2104			540	20	1	11	RECEPTS-OPEN OFFICE 70
TELECOM 2104	540			20	1	13	RECEPTS-OPEN OFFICE 70
TELECOM 2104		540		20	1	15	RECEPTS-OPEN OFFICE 70
RECEPTS-HELP DESK 123			720	20	1	17	RECEPTS-OPEN OFFICE 70
RECEPTS-OPEN OFFICE 121	540			20	1	19	SPARE
RECEPTS-LAB 117		1080		20	1	21	RECEPTS-S.G. OFFICE 131
RECEPTS-LAB 117		1080		20	1	23	RECEPTS-GSS OFFICE 129
RECEPTS-CONFERENCE RM 79	1260			20	1	25	RECEPTS-BREAK ROOM 127
RECEPTS-CONFERENCE RM 79		1260		20	1	27	RECEPTS-BREAK ROOM 127
BOOSTER PUMP			1200	20	1	29	SPARE
RECEPTS-SUPPLY 77	1080			20	1	31	RECEPTS-S.G. OFFICE 126
RECEPTS-LAB 117		1080		20	1	33	RECEPTS-CSS OFFICE 128
RECEPT-SUPPLY 77			2400	30	1	35	RECEPT-LAB 117
RECEPT-LAB 117	2400			30	1	37	SPARE
RECEPT-LAB 117		2400		30	1	39	EF-5/EF-11
SPARE			X	20	1	41	CAMERA AREA F2112
VAV-3	1200			20	1	43	RECEPTS-S.G. OFFICE 84,85
VAV-3		1200		20	1	45	RECEPTS-OFFICE 86,88
UPS TELECOM			4160	60	2	47	RECEPTS-OFFICE 68,87
UPS TELECOM	4160					49	RECEPTS-IT BUYER 107
AHU-3A		3120		40	2	51	RECEPTS-IT BUYER 107
AHU-3A			3120			53	COPY FAX 147
VAV3-24	240			20	1	55	RECEPTS-TECH. LAB 132
TELECOM RECEPT.		900		20	1	57	RECEPTS-TECH. LAB 132
TELECOM RECEPT.		900		20	1	59	RECEPTS-TECH. LAB 132
TELECOM RECEPT.	2080			30	2	61	RECEPTS-CONFERENCE RM 83
TELECOM RECEPT.		2080				63	TELECOM RM
TELECOM RECEPT.		900		20	1	65	1200 RACK IMS RM
TELECOM RECEPT.	900			20	1	67	AUTOMATED DOOR SYSTEM
TELECOM RECEPT.		2080		30	2	69	TELECOM RACK 2104
TELECOM RECEPT.		2080				71	TELECOM RACK 2104
LAB RECEPTS.	720			20	1	73	TELECOM RACK 2104
SPARE			X	20	1	75	SPARE
TELECOM/MDF		1248		20	2	77	COMPUTER LAB
TELECOM/MDF			1248			79	COMPUTER LAB
UPS ROOM 2124		2080		30	2	81	COMPUTER LAB
UPS ROOM 2124			2080			83	COMPUTER LAB
PANELBOARD SUB-TOTALS	17268	18420	20668				PANELBOARD SUB-TOTALS
LOAD CALCULATIONS:	CONNECTED LOAD (WATTS)		DEMAND FACTOR	ESTIMATED DEMAND LOAD (WATTS)		NOTES:	
LIGHTING	X		1.25	X			
RECEPTACLES (FIRST 10 KW)	10000		1.00	10000			
RECEPTACLES (REMAINDER)	27080		0.50	13540			
HVAC (WORST CASE)	9360		1.00	9360			
WATER HEATING	X		1.00	X			
KITCHEN	X		0.65	X			
MISCELLANEOUS	49136		0.80	39309			
PANELBOARD TOTALS:	95576W (266A)			72209W (201A)			

**PANEL IS EXISTING**

PANEL LOCATION: ELEC. ROOM 100		PANEL DESIGNATION: RPW-2		VOLTAGE: 208Y/120V, 3Ø, 4W		AIC RATING: EXISTING	
PANEL FED FROM: MDP		PANELBOARD RATING: 225A		MANUFACTURER: CUTLER-HAMMER		MOUNTING: SURFACE	
		MAINS: 225A MAIN BREAKER		STYLE: PRL1A		NEMA TYPE: 1	
LOAD DESCRIPTION	WATTS PER PHASE			BKR	POLE	CKT	LOAD DESCRIPTION
	PH A	PH B	PH C				
SPARE	X			20	1	43	RECEPTS-OPEN OFFICE 103
SPARE		X		20	1	45	RECEPTS-OPEN OFFICE 103
SPARE			X	20	1	47	RECEPTS-OPEN OFFICE 103
SPARE	X			20	1	49	RECEPTS-OPEN OFFICE 145
SPARE		X		20	1	51	RECEPTS-OPEN OFFICE 145
SPARE			X	20	1	53	RECEPTS-OPEN OFFICE 70
SPARE	X			20	1	55	RECEPTS-OPEN OFFICE 70
SPARE		X		20	1	57	RECEPTS-OPEN OFFICE 70
SPARE			X	20	1	59	RECEPTS-OPEN OFFICE 70
SPARE			X	20	1	61	RECEPTS-OPEN OFFICE 121
SERVER		2080		30	2	63	RECEPTS-OPEN OFFICE 135,149
SERVER			2080			65	RECEPTS-OPEN OFFICE 135,149
30A RECEPT. COMPUTER ROOM	2080			30	2	67	RECEPTS-OPEN OFFICE 135,149
30A RECEPT. COMPUTER ROOM		2080				69	RECEPTS-OPEN OFFICE 135,149
VERIZON BOX			500	20	1	71	DISPOSAL-127
OPEN AREA 2425	720			20	1	73	SPARE
OPEN AREA 2425		720		20	1	75	SPARE
OPEN AREA 2425			720	20	1	77	SPARE
OPEN AREA 2425	720			20	1	79	SPARE
OPEN AREA 2425		720		20	1	81	SPARE
OPEN AREA 2425			720	20	1	83	SPARE
PANELBOARD SUB-TOTALS	3520	5600	4020				PANELBOARD SUB-TOTALS
LOAD CALCULATIONS:	CONNECTED LOAD (WATTS)		DEMAND FACTOR	ESTIMATED DEMAND LOAD (WATTS)		NOTES:	
LIGHTING	X		1.25	X			
RECEPTACLES (FIRST 10 KW)	10000		1.00	10000			
RECEPTACLES (REMAINDER)	6740		0.50	3370			
HVAC (WORST CASE)	X		1.00	X			
WATER HEATING	2400		1.25	3000			
KITCHEN	X		0.65	X			
MISCELLANEOUS	9620		0.80	7696			
PANELBOARD TOTALS:	28760W (80A)			24066W (67A)			

**OC SHERIFF'S OFFICE IT SERVICES RENOVATION**

PROJECT NO. 17-147  
 PHASE 1000 CONSTRUCTION  
 SCALE AS SHOWN  
 FILE NAME  
 DRAWN BY  
 CHECKED BY  
 DATE 10-1-18

PROJECT ADDRESS  
 1300 West Colonial Drive  
 Orlando, Florida  
 OWNER NAME AND ADDRESS  
 Orange County Sheriff's Office

REV. 1  
 PERMIT COMMENTS 12.14.18

CONSULTANTS  
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 PHONE: 407.328.2008  
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 LICENSE NO. EC-12698

SIGNATURE AND DATED SEAL  
  
 AUGUSTUS E. BORBES, JR., P.E.  
 FLORIDA P.E. # 39410

**E303**