



Aviation Training Partners International, Inc.

ATIP – Gainesville FL

Flight Service Center

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SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) - MAINTENANCE FACILITY

GAINESVILLE REGIONAL AIRPORT
4505 NE 40th TERR. GAINESVILLE, FL.

BUILDING AS-BUILT PLANS

ENGINEER OF RECORD:

**SPUTO AND LAMMERT
ENGINEERING, LLC**

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GENERAL CONTRACTOR:

**SCHERER CONSTRUCTION &
ENGINEERING of North Florida, LLC.**

2504 NW 71PLACE
GAINESVILLE, FL. 32653
(352)-371-1417

PROJECT INFORMATION		
ADDRESS - 4505 NE 40th TERR, GAINESVILLE, FL.		
BUILDING CODE SUMMARY - THE FOLLOWING IS AN ANALYSIS OF APPLICABLE SECTIONS OF THE FOLLOWING CODES		
LOCAL ORDINANCES - CITY OF GAINESVILLE FLORIDA		
BUILDING CODE:	2004 FLORIDA BUILDING CODE	
PLUMBING CODE:	2004 FLORIDA EXISTING BUILDING CODE	
ELECTRICAL CODE:	2002 NATIONAL ELECTRICAL CODE	
MECHANICAL CODE:	2004 FLORIDA MECHANICAL CODE	
ACCESSIBILITY STANDARDS:	2004 FLORIDA BUILDING CODE	
GAS CODE:	2004 FLORIDA FIRE PREVENTION CODE	
FIRE-LIFE SAFETY CODE:	2004 FLORIDA GAS CODE	
OCCUPANCY TYPE: (CHAPTER 3)		
ASSEMBLY A-1, 2, 3, 4 OR 5 (SEC 303)	MERCANTILE M (SEC 309)	
BUSINESS B (SEC 304)	RESIDENTIAL R-1, 2, 3 & 4 (SEC 310)	
EDUCATIONAL E (SEC 305)	STORAGE S-1 (SEC 311)	
FACTORY-INDUST F-1 & 2 (SEC 306)	UTILITY & MISC. U (SEC 312)	
HAZARD H-1, 2, 3, 4 & 5 (SEC 307)	DAYCARE D (SEC 313)	
INSTITUTIONAL I-1, 2 & 3 (SEC 308)	MIXED OCCUPANCY	
MODIFICATION CALCULATIONS (SEC 504)		
WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM, THE AREA LIMITATION IN TABLE 305 IS PERMITTED TO BE INCREASED AN ADDITIONAL 300% FOR A SINGLE STORY BUILDING. (AUTOMATIC SPRINKLER SYSTEM INCREASE 506.3)		
CONSTRUCTION TYPE: (CHAP 6)		
TYPE IA	TYPE IIIA	
TYPE IB	TYPE IIIB	
TYPE IIA	TYPE IIV	
TYPE IIB	TYPE IVA	
FIRE RESISTANCE RATINGS: (TABLE 601)		
STRUCTURAL ELEMENT	FIRE RESISTANCE	
EXTERIOR BEARING WALLS	NONCOMBUSTIBLE	
EXTERIOR NONBEARING WALLS	NONCOMBUSTIBLE	
INTERIOR BEARING WALLS	NONCOMBUSTIBLE	
INTERIOR NONBEARING WALLS	NONCOMBUSTIBLE	
COLUMNS	NONCOMBUSTIBLE	
BEAMS, GIRDERS, TRUSSES	NONCOMBUSTIBLE	
ROOFS-ROOF/CEILING	NONCOMBUSTIBLE	
STAIRWAY CONSTRUCTION	NA	
ELEVATOR CONSTRUCTION	NA	
FIRE & SMOKE BARRIER NOTE - CORRIDOR PARTITIONS, SMOKESTOP PARTITIONS, HORIZONTAL EXIT PARTITIONS, EXIT CLOSURES, & FIRE WALLS REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE EFFECTIVELY & PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN A MANNER ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. SUCH IDENTIFICATION SHALL BE ABOVE ANY DECORATIVE CEILING & IN CONCEALED PLACES. SUGGESTED WORDING: "FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS".		
SPRINKLERED: (CHAP 9)		
SPRINKLERED: YES (X) NO ()		
OCCUPANT LOAD: (CHAP 10)		
MINIMUM OCCUPANT LOAD (TABLE 1004.1.2)		
STORAGE S-1 (HANGAR): 45,595 @ 500 SF/PERSON = 92 OCCUPANTS		
BUSINESS: 16,129 @ 100 SF/PERSON = 162 OCCUPANTS		
EXIT REQUIREMENTS PER TRAVEL DISTANCE, DEAD-END LENGTH, EXIT & MEANS OF EGRESS WIDTH		
GROUP: STORAGE (S-1)	ALLOWED	ACTUAL
1005.1 EGRESS WIDTH PER PERSON SERVED	44"	
1008.1.1 MIN CLR OPENING OF EXIT DOORS	82"	
1015.1 MAX TRAVEL DIST TO EXIT (SPRINKLERED)	250'	
1016.2 MIN CORRIDOR/AISLE WIDTH	44"	
1016.3 MAX DEAD END CORRIDOR LENGTH	20'	

DESIGN CRITERIA NOTES	
1. THE INTENDED DESIGN STANDARDS AND/OR CRITERIA ARE AS FOLLOWS:	
GENERAL CONCRETE	ACI 318
MASONRY	ACI 530
STRUCTURAL STEEL	AISC
STEEL JOISTS/GIRDERS	SJI
METAL DECK	SDI
COLD-FORMED METAL	AISI, NASPEC 2003
WOOD	NDS
WOOD TRUSSES	TPI 1-95
FOUNDATIONS DESIGN BASED ON GEOTECHNICAL REPORT SOIL BEARING CAPACITY OF 3000 PSI. BY GEOTECHNICAL REPORT PREPARED BY UNIVERSAL ENGINEERING SCIENCES PREPARED NOVEMBER 2, 2005	
2. DESIGN GRAVITY DEAD LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:	
ROOF	20 PSF MAX. 10 PSF MIN
ROOF COLLATERAL	10 PSF
FLOOR, HANGAR BAY	250 PSF
ALL OTHER ACTUAL WEIGHT	
3. DESIGN GRAVITY LIVE LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:	
ROOF, TYPICAL	20 PSF MAX
FLOOR, HANGAR BAY	250 PSF
4. DESIGN WIND LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE BASED ON FLORIDA BUILDING CODE, 2004 SIMPLIFIED PROVISIONS FOR LOW RISE BUILDINGS NOT IN WIND BORNE DEBRIS REGION, THEREFORE, GLAZED EXTERIOR OPENINGS DO NOT NEED IMPACT RESISTANT PROTECTION.	
A. BASIC WIND SPEED	= 100 MPH. (3 SECOND GUST)
B. IMPORTANCE FACTOR	= 1.00
C. EXPOSURE CATEGORY:	C
D. BUILDING CATEGORY:	TYPE IIB
E. INTERNAL PRESSURE COEFFICIENT	= 0.18
F. COMPONENTS AND CLADDING DESIGN WIND PRESSURE:	
END ZONE	= 32.6 PSF A= 12.0 FT
INTERIOR ZONE	= 27.1 PSF
5. SPECIAL LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:	
JET BLAST	= 30 PSF
6. POSTING LIVE LOADS: POST SIGN AT HANGAR BAY "300 PSF FLOOR LIVE LOAD"	
7. SOIL BEARING PRESSURE = 3000 PSF PER PROJECT GEOTECHNICAL REPORT PREPARED BY UNIVERSAL ENGINEERING SCIENCES (REPORT NO. 37628.1, 11/2/05)	

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M6	MECHANICAL DETAILS & NOTES
E-0	ELECTRICAL DRAWING INDEX
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FA-3	FIRE ALARM PLAN-HANGAR
COM-1	PHONE/DATA RISER

NOTES:
1. METAL BUILDING DRAWINGS BY "BUTLER MANUFACTURING" UNDER SEPERATE COVER
2. CANOPY DRAWINGS BY "AMERICAN SPACE FRAME INCORPORATED" UNDER SEPERATE COVER
3. HANGAR DOORS BY "NORCO" UNDER SEPERATE COVER

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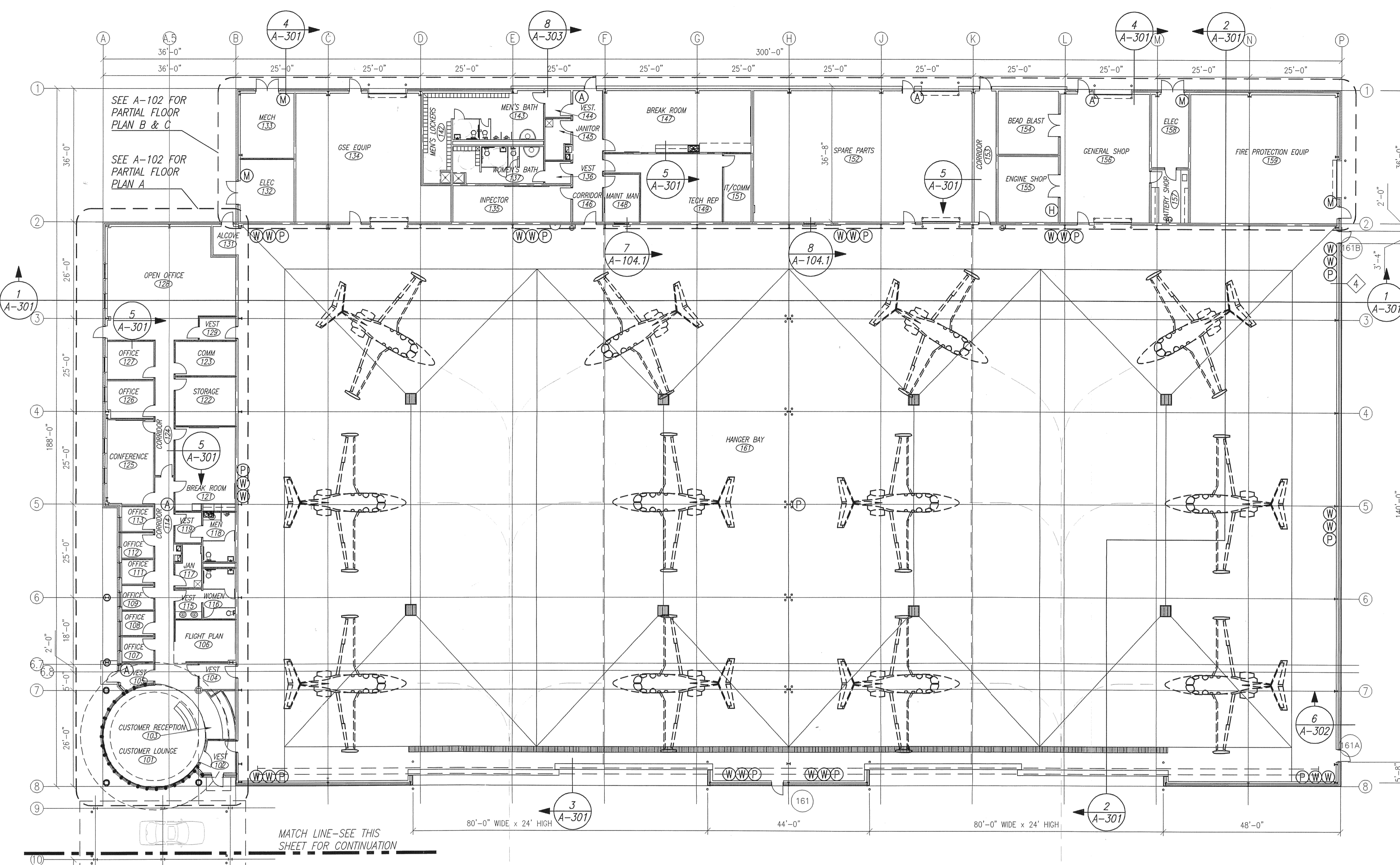
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JOB NO. 06-622
 DRAWN JEM
 DATE 5/15/06
 SCALE NOTED
 SITE COVER

SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
 FLOOR PLAN CONSTRUCTION PLANS

AS-BUILT SET
 CONSTRUCTION SET
 PERM/CONSTRUCTION SET
 100% DESIGN SUBMITTAL
 REVISION

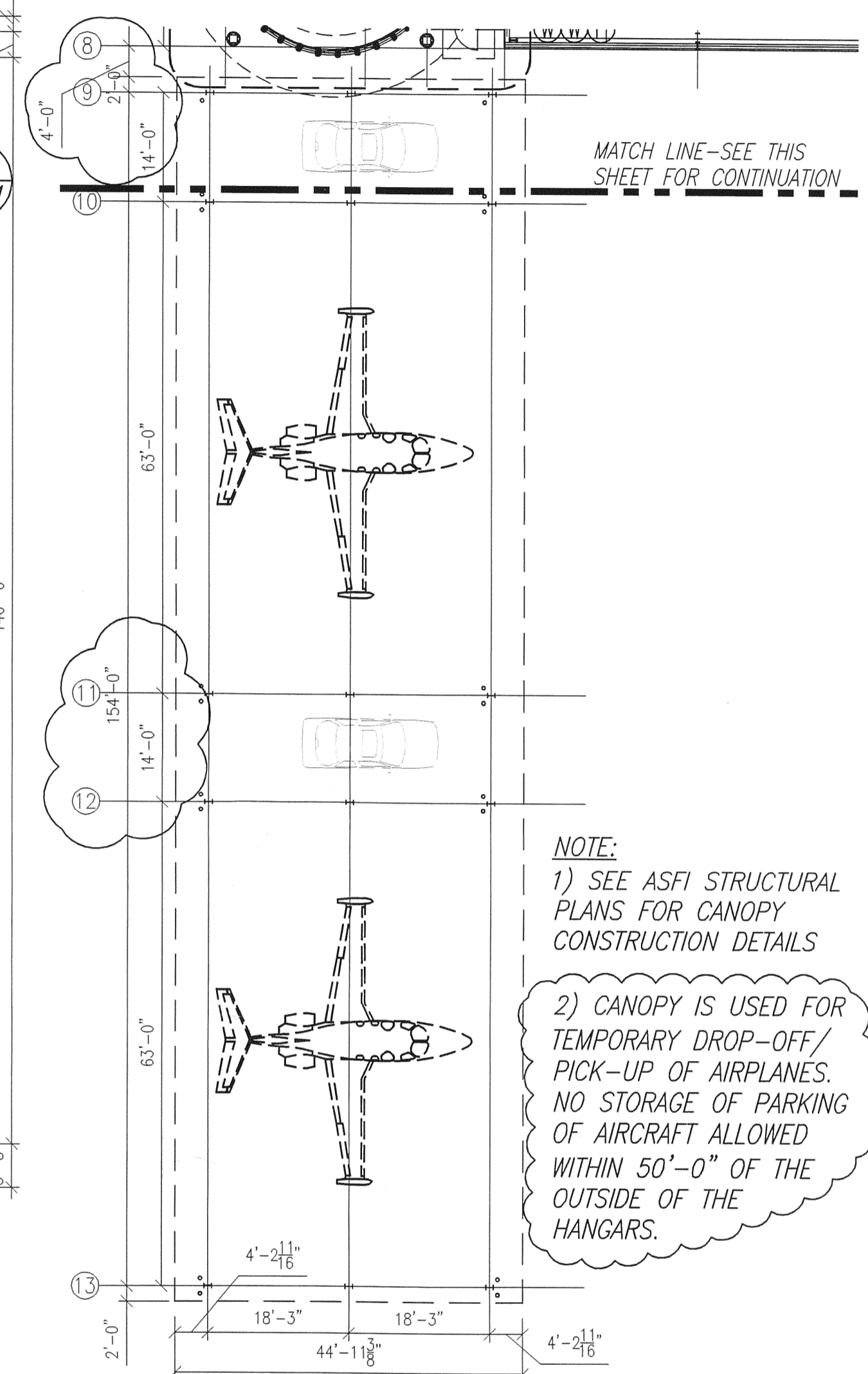
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FLOOR PLAN-OVERALL
SCALE: 1/16" = 1'-0"

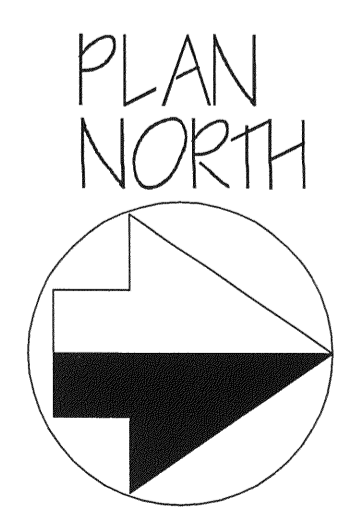
NOTES:
1) MIN APRON SLOPE @ HANGAR ENTRY (1:200 FOR FIRST 50'-0") PER NFPA, 5.11.1, 2001 EDITION. SEE CIVIL PLANS FOR ACTUAL GRADES.
2) SEE S-101 FOR HANGAR SLAB FLOOR SLOPE PER NFPA 409

FIRE EXTINGUISHER LEGEND
W WATER
P PURPLE K
M WATER MIST
A ABC
H HALOTRON



FLOOR PLAN-CONTINUATION
SCALE: 1/16" = 1'-0"

NOTE:
1) SEE ASFI STRUCTURAL PLANS FOR CANOPY CONSTRUCTION DETAILS
2) CANOPY IS USED FOR TEMPORARY DROP-OFF/PICK-UP OF AIRPLANES. NO STORAGE OF PARKING OF AIRCRAFT ALLOWED WITHIN 50'-0" OF THE OUTSIDE OF THE HANGARS.



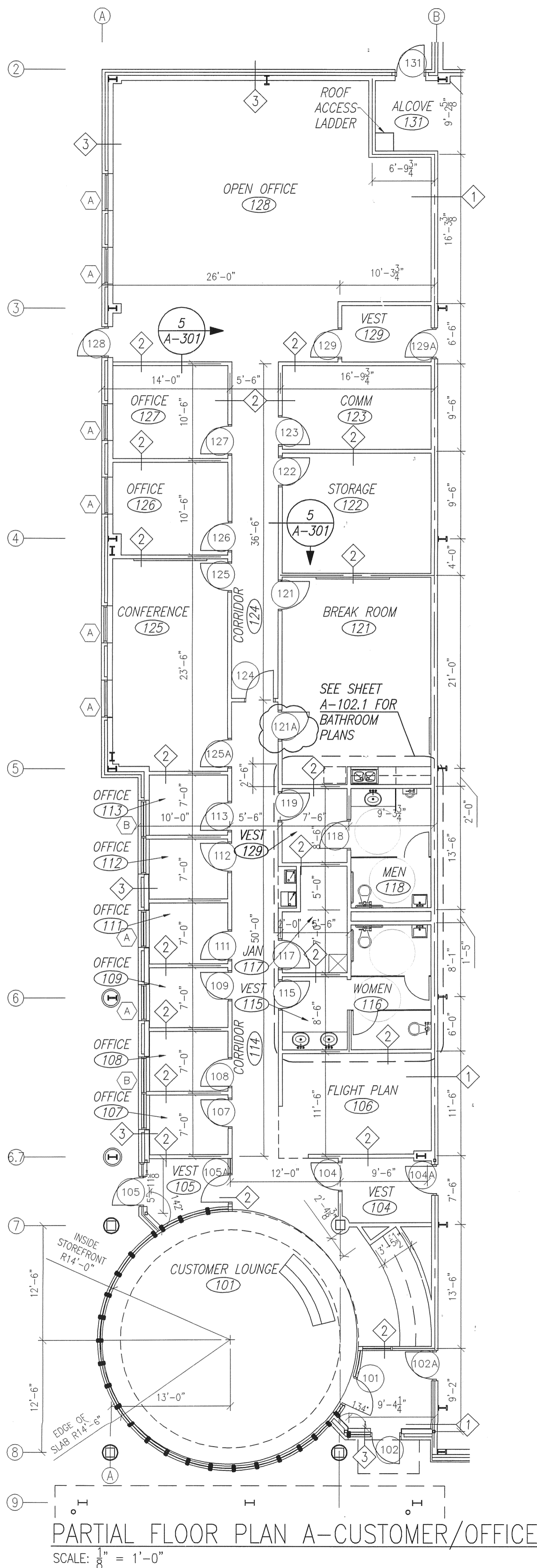
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SMALL AIRCRAFT TRANSPORTATION
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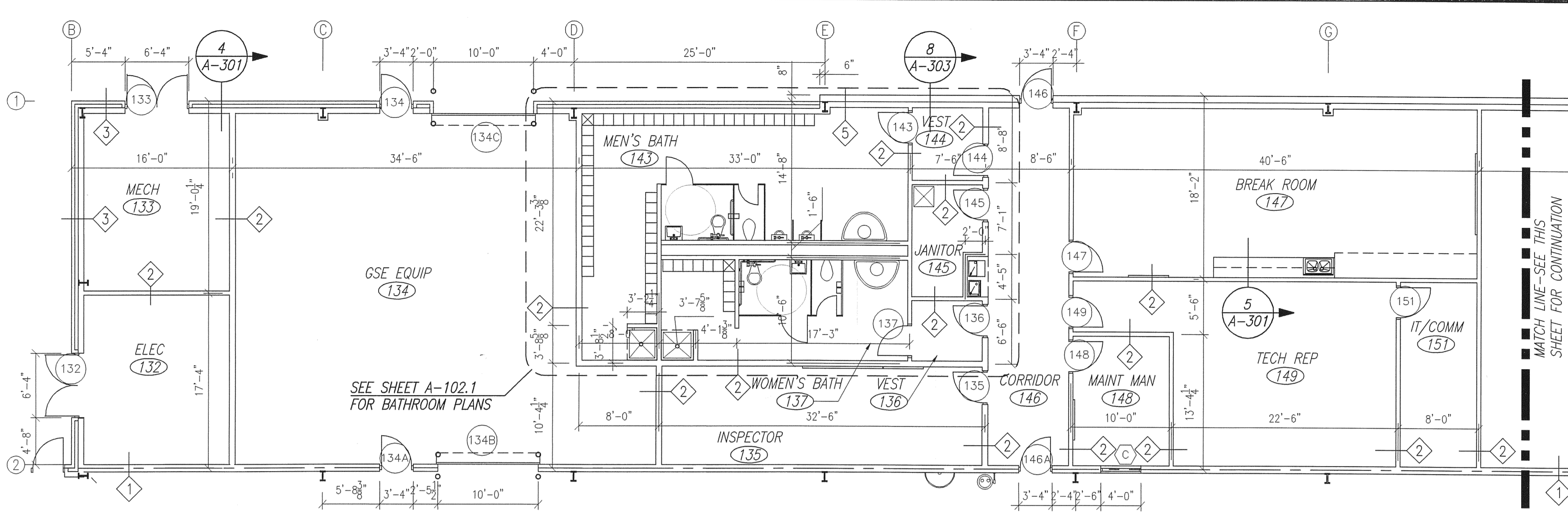
NO.	DATE	REVISION
5	4/25/07	AS-BUILT PLANS
4	10/13/06	BLDG DEPT COMMENTS/MISC CONSTRUCTION SET
3	10/3/06	PERMIT/CONSTRUCTION SET
2	8/28/06	100% DESIGN SUBMITTAL
1	8/4/06	

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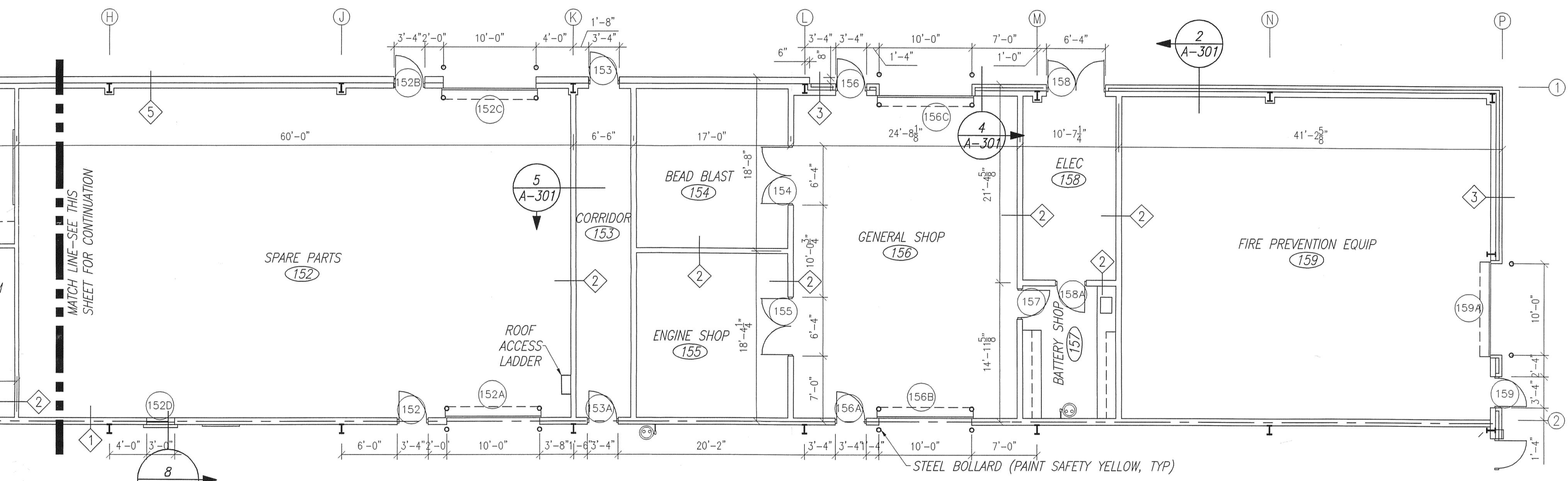
JOB NO.	C6-622
DRAWN	JEM
DATE	9/15/06
SCALE	NOTED
SHT.	A-101



PARTIAL FLOOR PLAN A-CUSTOMER/OFFICE
SCALE: 1/8" = 1'-0"



PARTIAL FLOOR PLAN B-MAINTENANCE
SCALE: 1/8" = 1'-0"

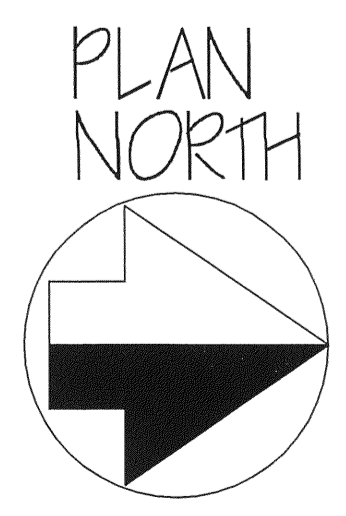


PARTIAL FLOOR PLAN C-MAINTENANCE
SCALE: 1/8" = 1'-0"

GENERAL CONSTRUCTION NOTES:
1) INTERIOR DOOR FRAMES ARE SET 4" OFF ADJACENT WALL UNLESS NOTED OTHERWISE; INTERIOR DOOR FRAMES ON CMU WALLS ARE TYPICALLY SET 8" OFF ADJACENT WALL UNLESS DIMENSIONED OTHERWISE.
2) DIMENSIONS ARE CENTERLINE TO CENTERLINE

MARK	DESCRIPTION	WIDTH	HEIGHT	GLASS	FRAME	NOTES
A	FIXED ALUM STOREFRONT	4'-0"	4'-0"	INSUL/TINT	WHT/ALUM.	
B	FIXED ALUM STOREFRONT	8'-0"	4'-0"	INSUL/TINT	WHT/ALUM.	
C	H.M. FIXED	4'-0"	4'-0"	CLEAR	FIRE RATED	FRAME 3 ON A-103

WALL LEGEND	
1	2-HR RATED WALL (UL#438) W/MTL LINER PANEL ON HANGAR SIDE TO 7'-6". 6"-20 GA. MTL STUDS @ 16" O.C. W/(2) LAYERS 5/8" GYP BD TO LEVEL 4 FINISH EA SIDE & R-11 INSUL.-SEE 6 ON A-302
2	3/8"-20 GA. MTL STUDS @ 16" O.C. ATTACHED TO ROOF FRAMING ABOVE 5/8" GYP BD TO LEVEL 4 FINISH & R-11 INSUL.-SEE 5 ON A-301
3	6"-16 GA. STUDS @ 16" O.C. 5/8" GYP BD TO LEVEL 4 FINISH, 1/2" DENSGLASS, 15# FELT, 2" POLYSTYRENE, BRICK TIES & 4" SPLIT-FACE PRE-COLORED CONC BLOCK VENEER-SEE 4 ON A-301
3A	SAME AS ABOVE EXCEPT FULL HEIGHT OF WALL-SEE 7 ON A-303
4	MTL BLDG WALL W/MTL LINER PANEL (TO 7'-6" A.F.F.) ON INTERIOR SIDE. V.F. R-13 INSUL.-SEE 7 ON A-302
5	MTL BLDG WALL W/3/8"-20 GA. MTL STUDS @ 16" O.C. ATTACHED TO ROOF FRAMING ABOVE 5/8" GYP BD TO LEVEL 4 FINISH & R-11 INSUL



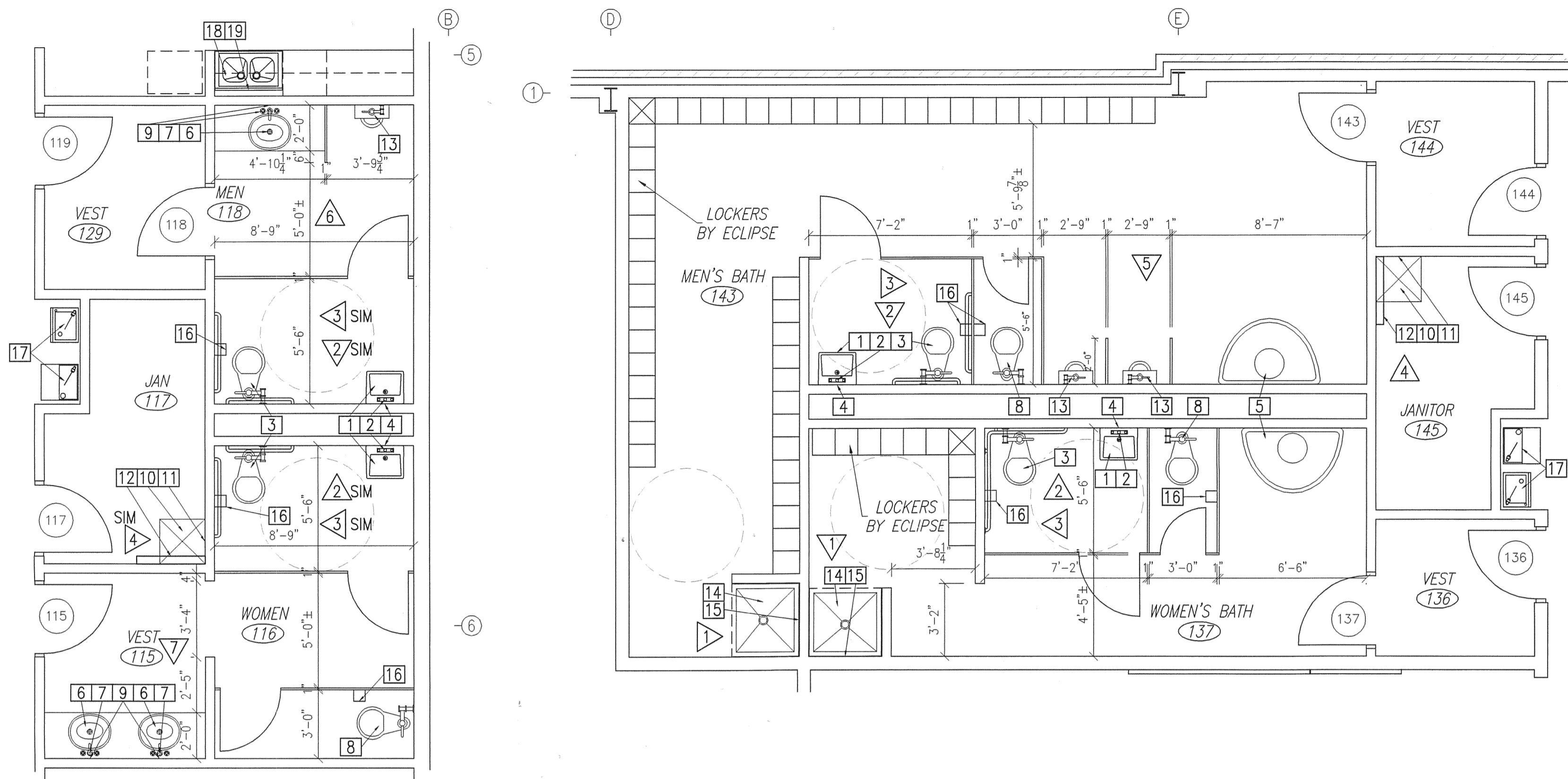
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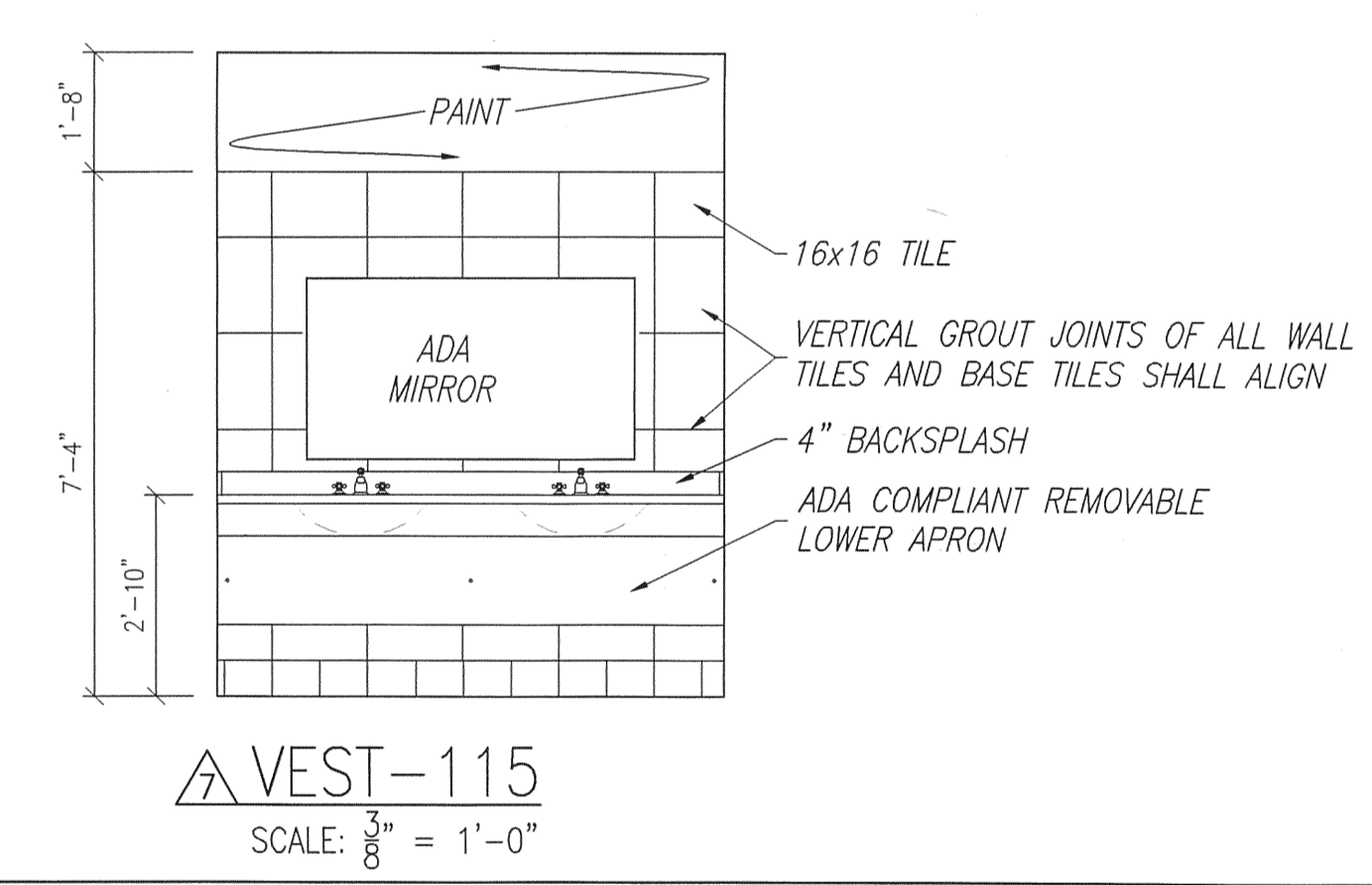
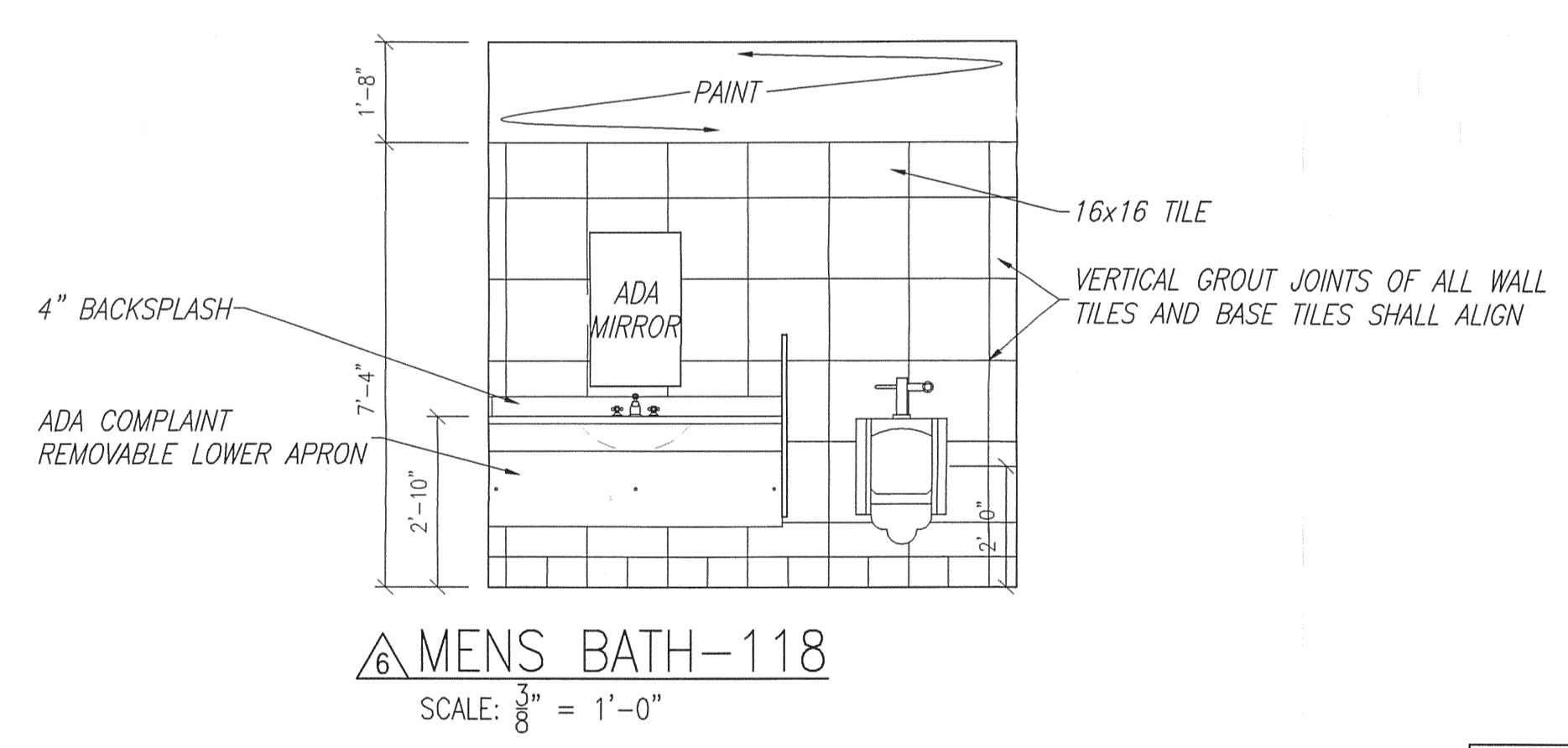
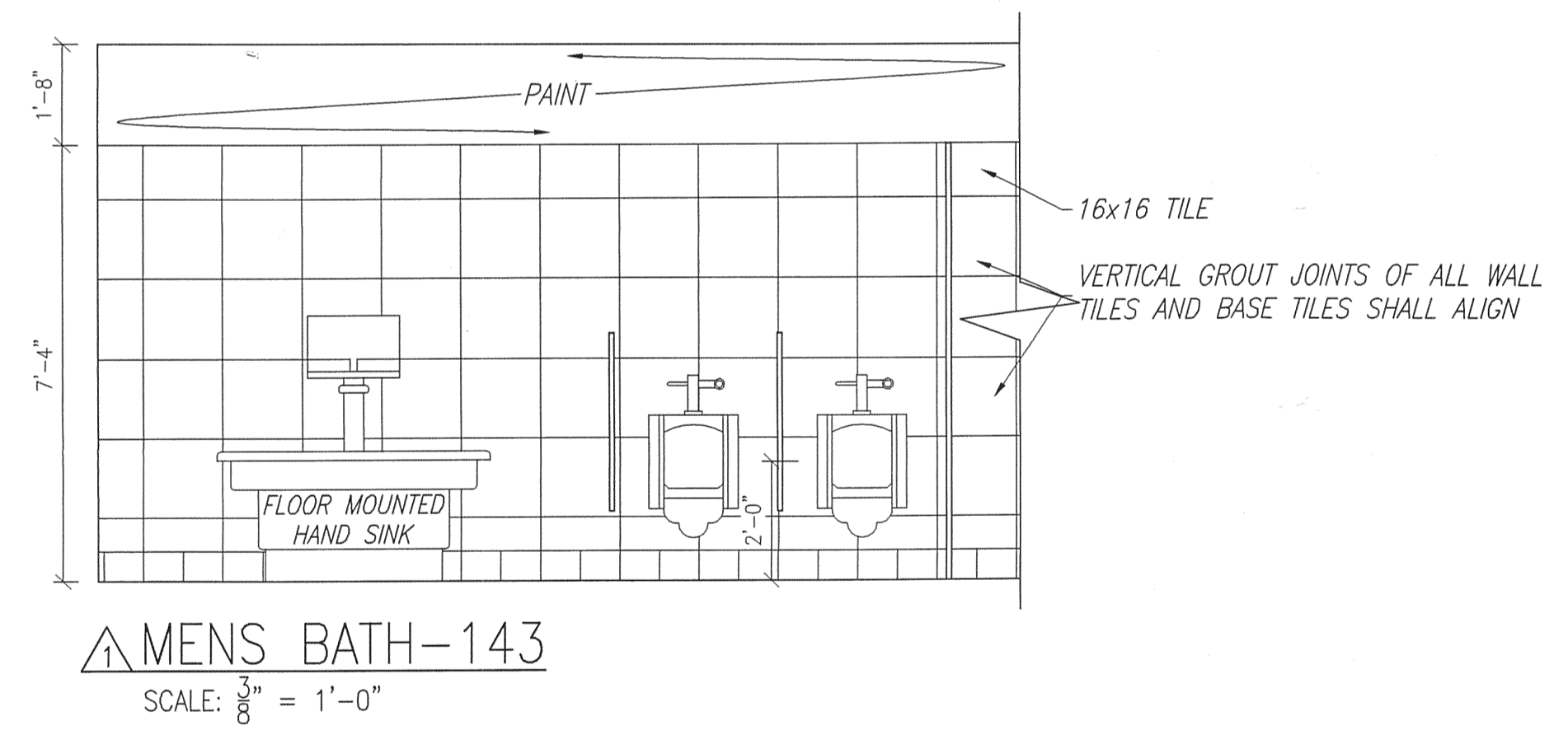
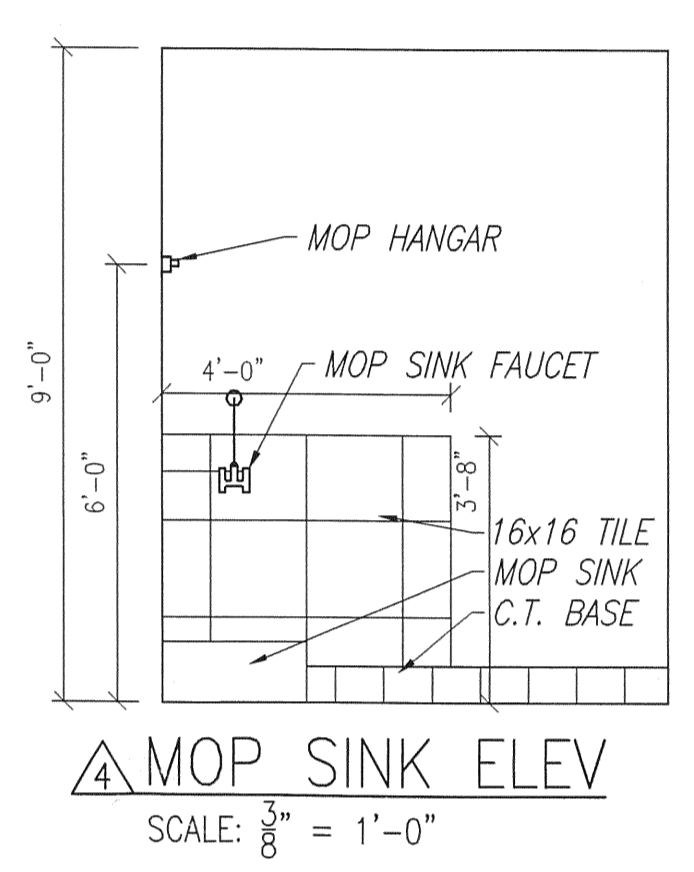
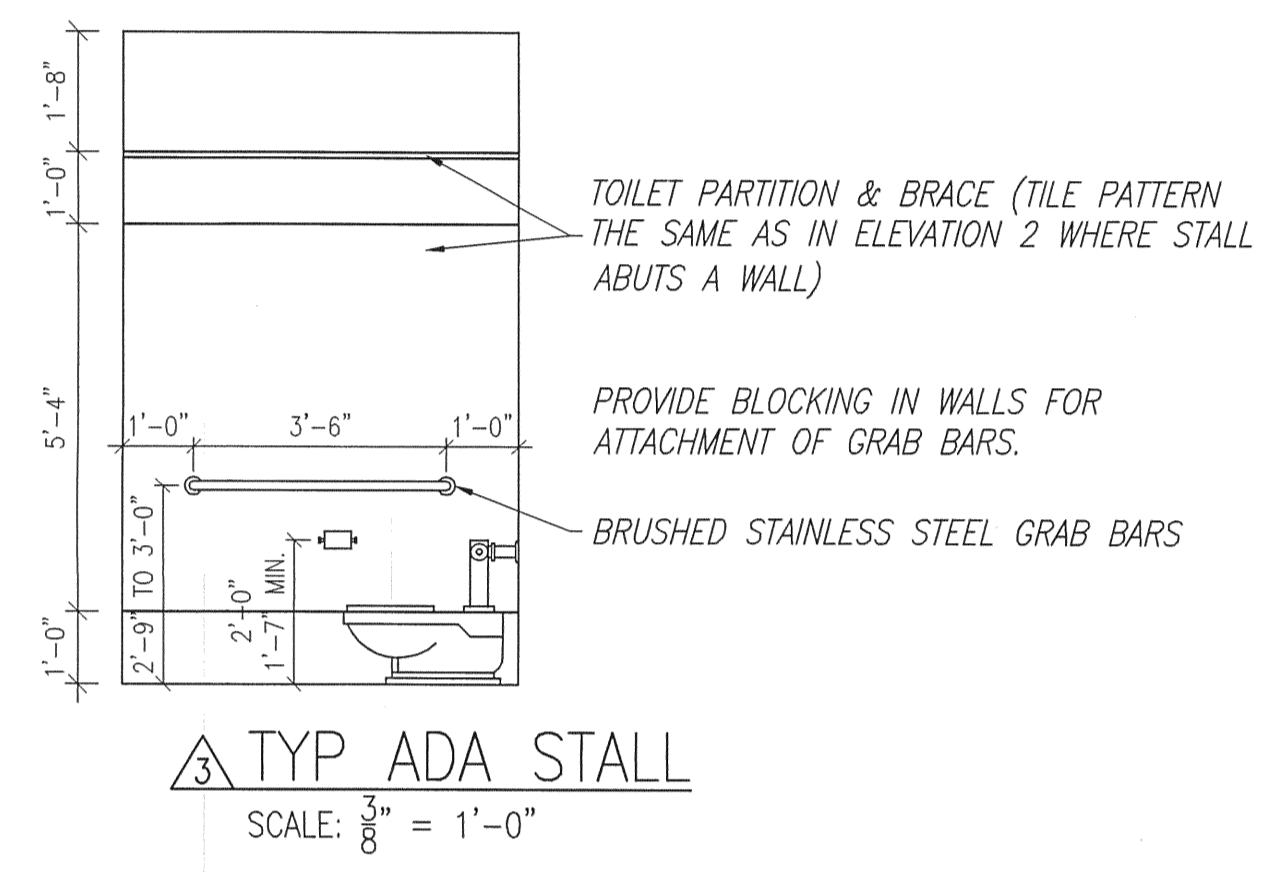
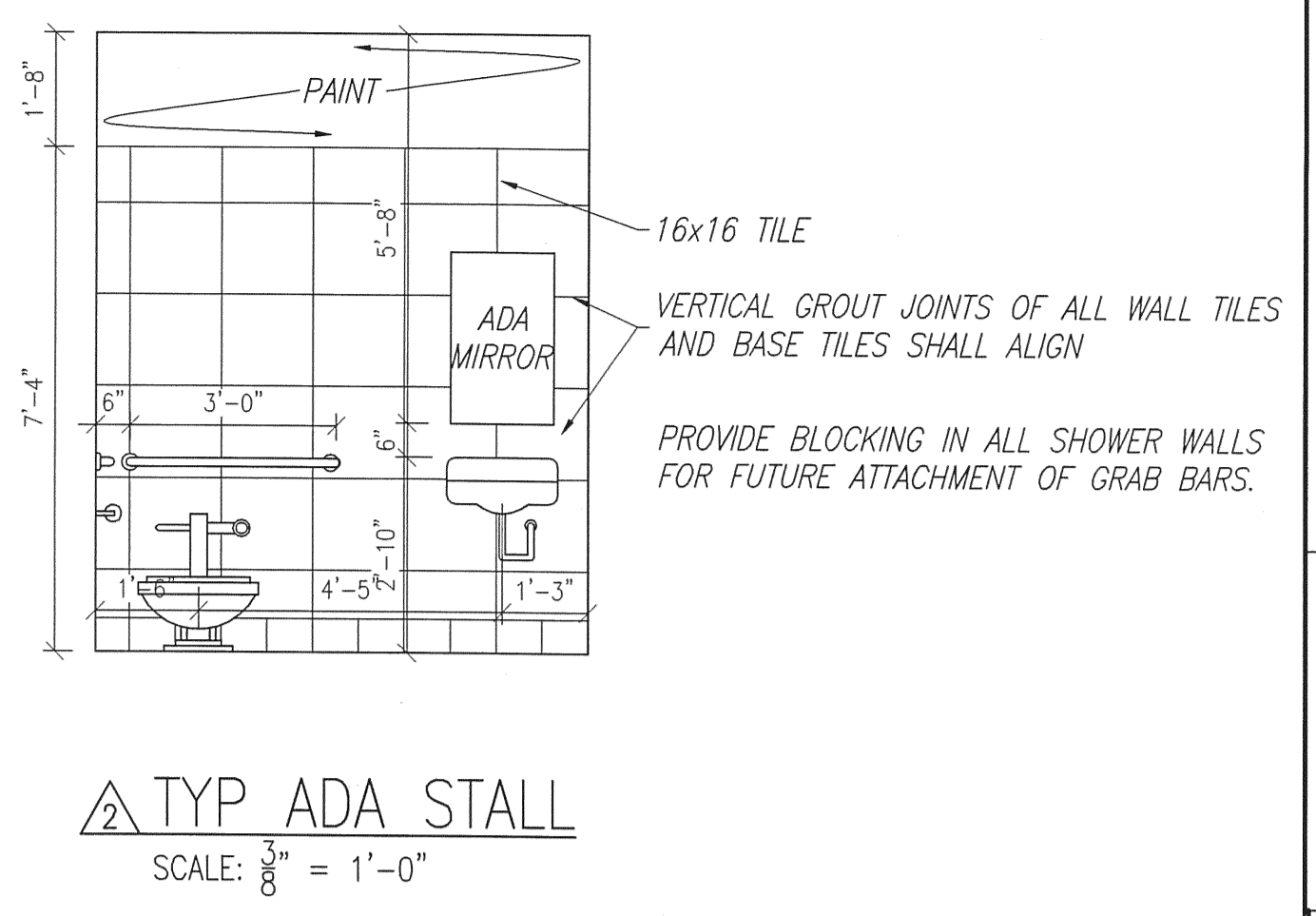
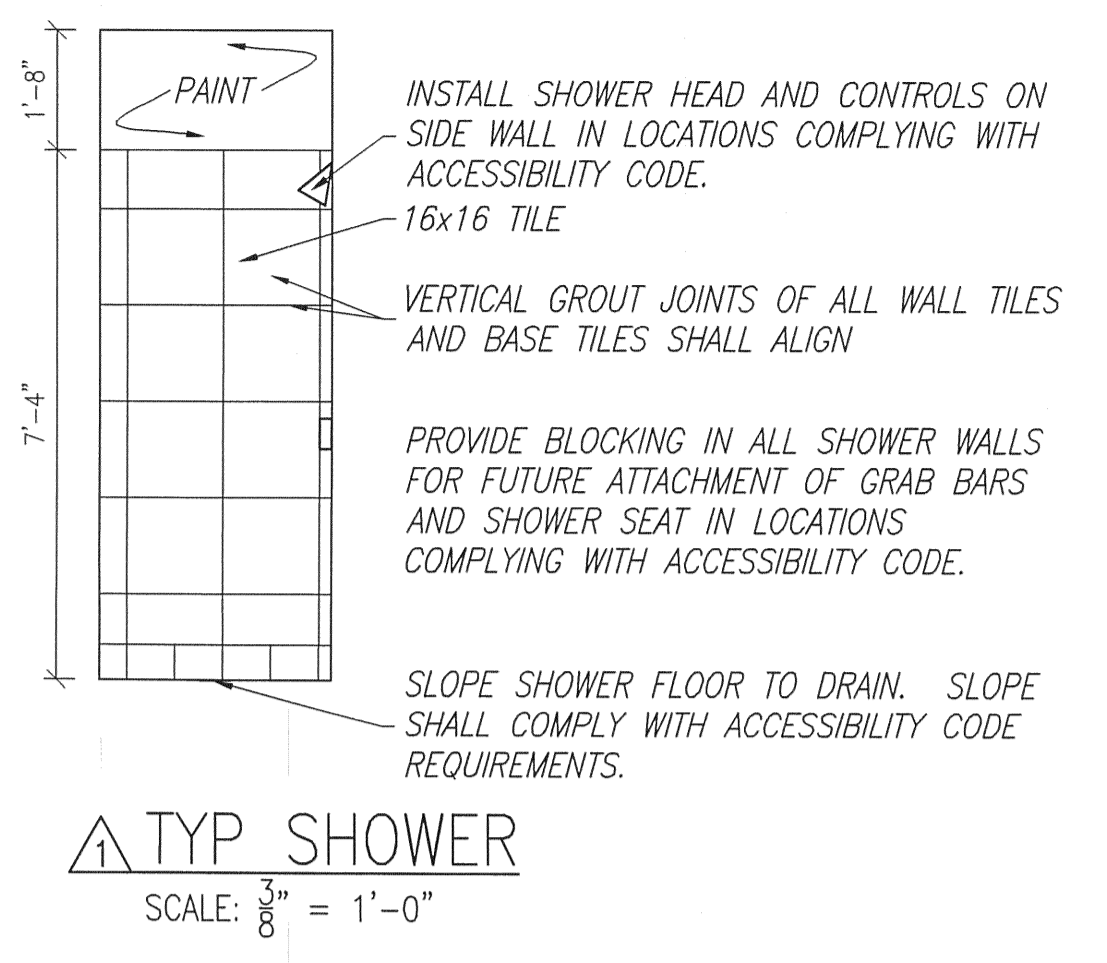
NO.	DATE	REVISION
5	4/25/07	AS-BUILT PLANS
4	10/13/06	BLDG DEPT COMMENTS/MISC
3	10/3/06	CONSTRUCTION SET
2	8/29/06	PERMIT/CONSTRUCTION SET
1	8/4/06	100% DESIGN SUBMITTAL

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JOB NO.	DATE	SCALE	SHEET
06-672	5/15/06	NOTED	A-102



ENLARGED BATHROOM PLANS
SCALE: 1/4" = 1'-0"

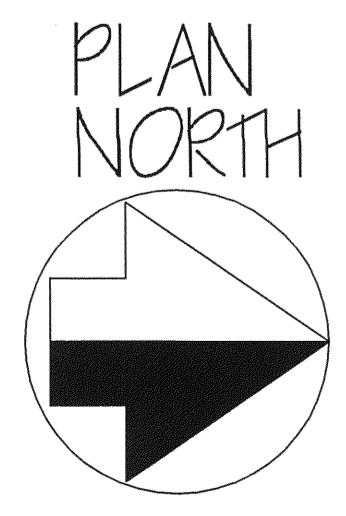


PLASTIC LAMINATE SCHEDULE

IDENT	MANUF	COLOR	NUMBER	FINISH
PL-1	PIONITE	HARDROCK MAPLE	WM791	SUEDE
PL-2	NEVAMAR	AGED ELEMENTS	EM-6-1T	TEXTURED
PL-3	PIONITE	GRAPHIC TALC	AG361-S	SUEDE

BATH ACCESSORY SCHEDULE

#	ITEM	BRAND	MODEL #
1	ADA SINK	KOHLER	K-2196
2	ADA FAUCET	SYMMONS	SYMMETRIX S-20
3	ADA TOILET/FLUSH VALVE	KOHLER/SLOAN	K-4330/ROYAL FLUSHOMETER 111
4	ADA MIRROR	BRADLEY	780
5	FLOOR MOUNTED HAND SINK	BRADLEY	WF2604
6	SINK	KOHLER	K-2210
7	FAUCET	SYMMONS	SYMMETRIX S-20
8	TOILET/FLUSH VALVE	KOHLER/SLOAN	K-4330/ROYAL FLUSHOMETER 111
9	MIRROR	BRADLEY	780
10	MOP SINK	ZURN	Z1996-24
11	MOP SINK FAUCET	T & S	B-0665-BSTP/R
12	MOP HANGAR	PROFLO	PF245
13	URINAL/FLUSH VALVE	KOHLER/SLOAN	K-4989-T/ROYAL FLUSHOMETER 186-1.0
14	SHOWER STALL	FIAT PRODUCTS	TSB-200
15	SHOWER HEAD	LEONARD	H-03
16	TOILET PAPER DISPENSOR	BRADLEY	5402
17	WATER FOUNTAIN	ELKAY	EZS8/ERPBM8C
18	BREAKROOM SINK	ELKAY	CR-3322
19	BREAKROOM FAUCET	MOEN	CHATEAU 67424



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SMALL AIRCRAFT TRANSPORTATION
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Gainesville, FL
BATH PLANS CONSTRUCTION PLANS

NO.	DATE	REVISION
1	8/4/06	100% DESIGN SUBMITTAL
2	8/28/06	PERMIT/CONSTRUCTION SET
3	10/3/06	CONSTRUCTION SET
4	4/29/07	AS-BUILT PLANS

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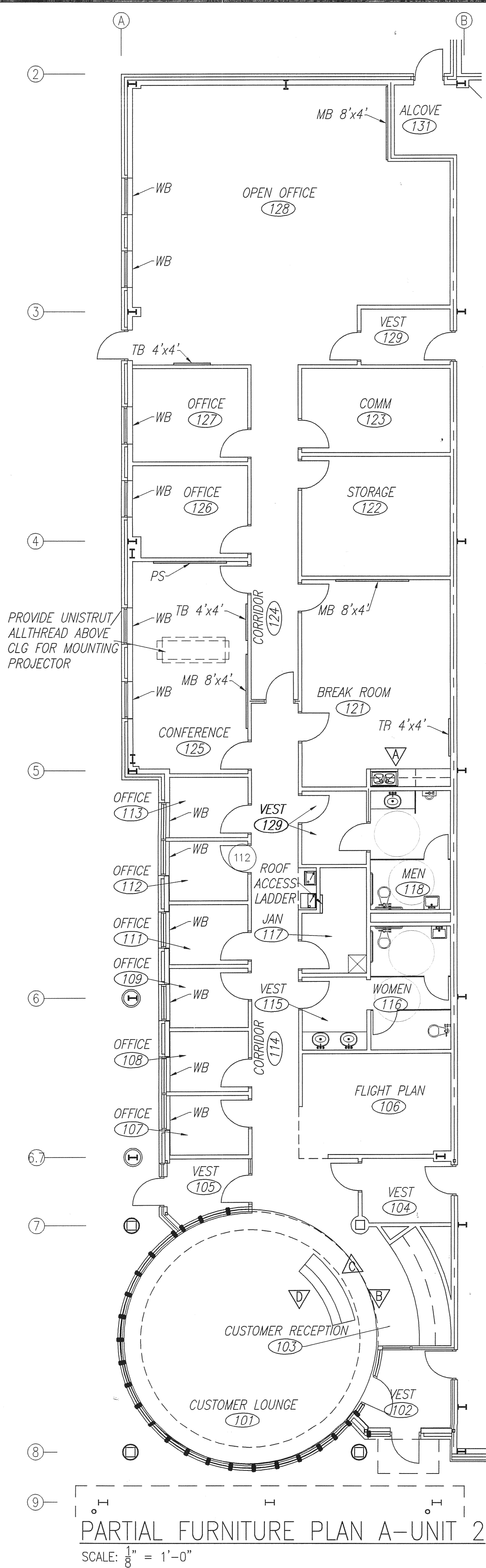
DOB NO. 06-622
DRAWN JEM
DATE 5/15/06
SCALE NOTED
SITE A-102.1
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ROOM FINISH SCHEDULE

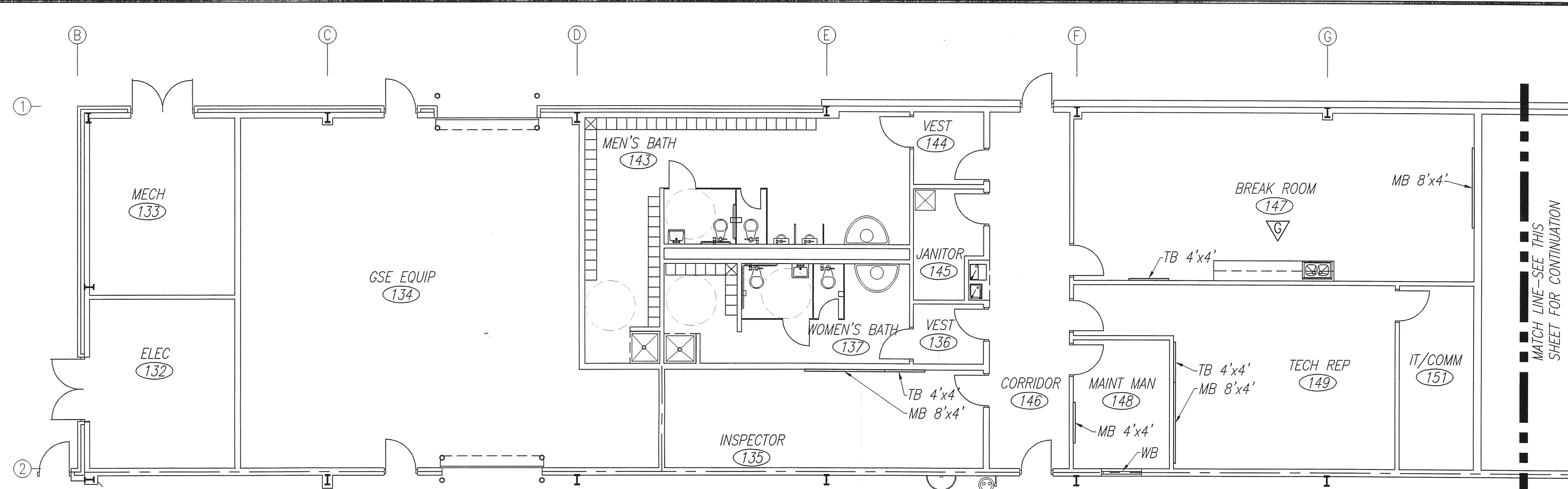
NO.	ROOM NAME	MATERIAL								FINISH NOTES
		FLOOR		BASE		WALLS		CEILING-MAT/HGT		
		SEE SCHEDULES BELOW	SEE SCHEDULES BELOW	1) GYP BD-PAINTED 2) GYP BD-VINYL COVERING 3) GYP BD-EPOXY PT 4) CERAMIC TILE/EPOXY PT 5) METAL LINER PANEL TO 7'-6" 6) VINYL FACED INSUL	SEE SCHEDULES BELOW	MAT	HGT	1) ALL GWB WALLS TO BE PAINT P1		
101	CUSTOMER LOUNGE	CAR-1, CAR-2	VB-1	2/WC-12/WC-1	2/WC-12/WC-1	2/WC-1	ACT-2	24'-0"	GWB-PAINT ABOVE 14'-0"	
102	VESTIBULE	CT-1	CTB-1	2/WC-12/WC-1	2/WC-12/WC-1	2/WC-1	ACT-2	10'-0"	12"x12" FLOOR TILE	
103	CUSTOMER RECEPTION	CT-1	CTB-1	2/WC-12/WC-1	2/WC-12/WC-1	2/WC-1	ACT-2	10'-0"	GYP BD SOFFIT 8' AFF	
104	VESTIBULE	CT-1	CTB-1	2/WC-12/WC-1	2/WC-12/WC-1	2/WC-1	ACT-2	10'-0"	12"x12" FLOOR TILE	
105	VESTIBULE	CT-1	CTB-1	2/WC-12/WC-1	2/WC-12/WC-1	2/WC-1	ACT-2	10'-0"	12"x12" FLOOR TILE	
106	FLIGHT PLAN	CAR-1, CAR-2	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
107	OFFICE	CPT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
108	OFFICE	CPT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
109	OFFICE	CPT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
110	NOT USED									
111	OFFICE	CPT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
112	OFFICE	CPT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
113	OFFICE	CPT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
114	CORRIDOR	CT-1	CTB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"	12"x12" FLOOR TILE	
115	VESTIBULE	CT-1	CTB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"	12"x12" FLOOR TILE	
116	WOMEN'S TOILET	CT-1	CTB-1	4/CT-1	4/CT-1	4/CT-1	ACT-2	9'-0"	12"x12" FLOOR TILE	
117	JANITOR'S CLOSET	CT-1	CTB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"	SEE ELEVATIONS	
118	MEN'S TOILET	CT-1	CTB-1	4/CT-1	4/CT-1	4/CT-1	ACT-2	9'-0"	12"x12" FLOOR TILE	
119	VESTIBULE	CT-1	CTB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"	12"x12" FLOOR TILE	
120	NOT USED									
121	BREAK ROOM	VCT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
122	STORAGE	CPT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
123	COMMUNICATION	SEALED CONC	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
124	CORRIDOR	CAR-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
125	CONFERENCE ROOM	CAR-1, CAR-2	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
126	OPEN OFFICE	CPT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
127	OFFICE	CPT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
128	OFFICE	CAR-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
129	VESTIBULE	CT-1	CTB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
130	NOT USED									
131	ALCOVE	CONC-SPECIAL COAT			5	5	5	EXP		
132	ELECTRICAL EQUIPMENT ROOM	SEALED CONC	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
133	MECHANICAL EQUIPMENT ROOM	SEALED CONC	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
134	GSE EQUIPMENT	SEALED CONC	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
135	INSPECTOR'S OFFICE	VCT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
136	VESTIBULE	VCT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
137	WOMEN'S BATH	CT-1	CTB-1	4/CT-1	4/CT-1	4/CT-1	ACT-2/GWB	9'-0"	12"x12" FLOOR TILE	
138	NOT USED									
139	NOT USED									
140	NOT USED									
141	NOT USED									
142	NOT USED									
143	MEN'S BATH	CT-1	CTB-1	4/CT-1	4/CT-1	4/CT-1	ACT-2/GWB	9'-0"	12"x12" FLOOR TILE	
144	VESTIBULE	VCT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
145	JANITOR'S CLOSET	CT-1	CTB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"	SEE ELEVATIONS	
146	CORRIDOR	VCT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
147	BREAK ROOM	VCT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
148	MAINT. MANAGER'S OFFICE	VCT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
149	TECH REPS OFFICE	VCT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
150	NOT USED									
151	IT/COMM	SEALED CONC	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
152	SPARE PARTS	SEALED CONC	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
153	CORRIDOR	VCT-1	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
154	BEAD BLAST	SEALED CONC	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
155	ENGINE SHOP	SEALED CONC	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
156	GENERAL SHOP	SEALED CONC	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
157	BATTERY SHOP	SEALED CONC	VB-1	3	3	3	ACT-2	9'-0"		
158	ELECTRICAL EQUIPMENT ROOM	SEALED CONC	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
159	FIRE PROTECTION EQUIP. ROOM	SEALED CONC	VB-1	1/P1	1/P1	1/P1	ACT-2	9'-0"		
160	NOT USED									
161	HANGAR BAY	CONC-SPECIAL COAT		5/6	5/6	1/P1-1/8	1/P1-1/8	EXP		

DOOR SCHEDULE

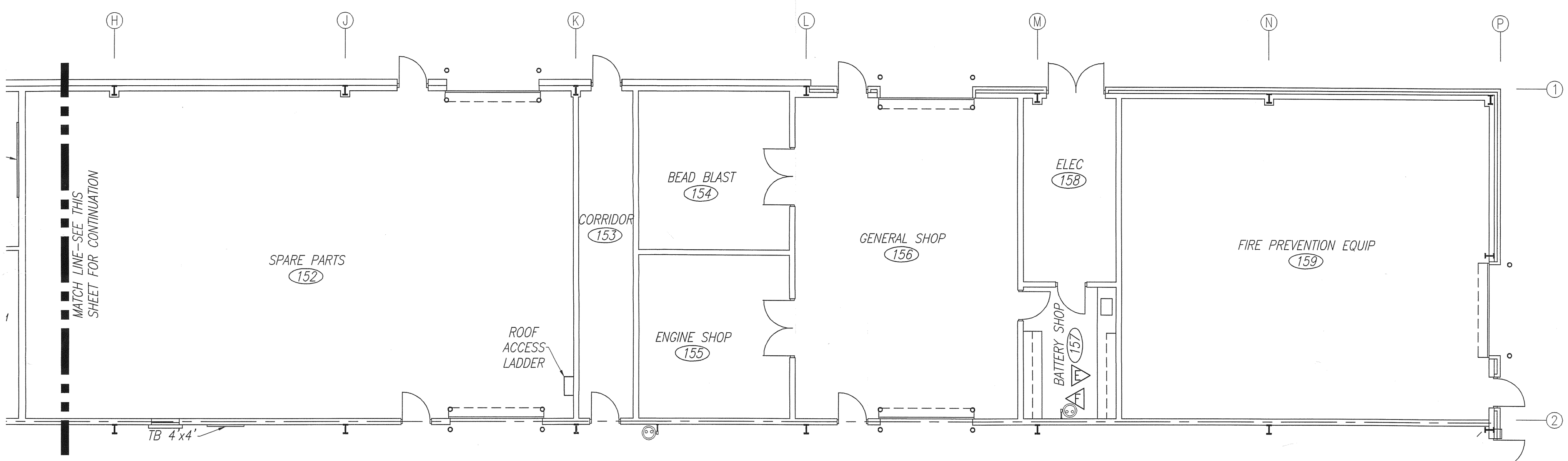
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		TYPE	MAT	TYPE	MAT				
101	3'-0"x7'-0"x1-3/4"	F	AL	-	AL	P		N	
102	3'-0"x7'-0"x1-3/4"	F	AL	-	AL	S	C	Y-ELEC STRIKE	
102A	3'-0"x7'-0"x1-3/4"	B	HM	1	HM	S	C	Y-ELEC STRIKE	B-LABEL 1 1/2 HOUR
104	3'-0"x7'-0"x1-3/4"	B	WD	1	HM	P		N	
104A	3'-0"x7'-0"x1-3/4"	B	HM	1	HM	S		N	B-LABEL 1 1/2 HOUR
105	3'-0"x7'-0"x1-3/4"	F	AL	-	AL	S	C	Y-ELEC STRIKE	
105A	3'-0"x7'-0"x1-3/4"	F	AL	-	AL	P		N	
106	NOT USED	-	-	-	-	-		-	
107	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	E		N	STC-45 DOORS AND FRAMES
108	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	E		N	STC-45 DOORS AND FRAMES
109	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	E		N	STC-45 DOORS AND FRAMES
110	NOT USED	-	-	-	-	-		-	
111	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	E		N	STC-45 DOORS AND FRAMES
112	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	E		N	STC-45 DOORS AND FRAMES
113	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	E		N	STC-45 DOORS AND FRAMES
114	NOT USED	-	-	-	-	-		-	
115	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	P		N	
116	NOT USED	-	-	-	-	-		-	
117	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	CL		N	
118	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	PP		N	
119	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	P		N	
120	NOT USED	-	-	-	-	-		-	
121	3'-0"x7'-0"x1-3/4"	B	WD	1	HM	S	LEX	Y-ELEC STRIKE	
121A	3'-0"x7'-0"x1-3/4"	B	WD	1	HM	CL	LENT	N	
122	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	CL		N	
123	3'-0"x7'-0"x1-3/4"	A	WD	1	HM	CL		N	
124	3'-0"x7'-0"x1-3/4"	B	WD	1	HM	S		Y-ELEC STRIKE	
125	3'-0"x7'-0"x1-3/4"	B	WD	1	HM	S	LEX	Y-ELEC STRIKE	
125A	3'-0"x7'-0"x1-3/4"	B	WD	1	HM	E	LENT	N	
126	3'-0"x7'-0"x1-3/4"	B	WD	1	HM	E		N	
127	3'-0"x7'-0"x1-3/4"	B	WD	1	HM	E		N	
128	3'-0"x7'-0"x1-3/4"	C	HM	2	HM	S	C	Y-ELEC STRIKE	
129	3'-0"x7'-0"x1-3/4"	B	WD	1	HM	P		N	
129A	3'-0"x7'-0"x1-3/4"	B	HM	1	HM	CL		N	B-LABEL 1 1/2 HOUR
130	NOT USED	-	-	-	-	-		-	
131	3'-0"x7'-0"x1-3/4"	C	HM	2	HM	S	C	Y-ELEC STRIKE	
132	PR 3'-0"x7'-0"x1-3/4"	A	HM	2	HM	S	C	N	
133	PR 3'-0"x7'-0"x1-3/4"	A	HM	2	HM	S	C	N	
134	3'-0"x7'-0"x1-3/4"	A	HM	2	HM	S	U	N	
134A	3'-0"x7'-0"x1-3/4"	C	HM	2	HM	CL		N	B-LABEL 1 1/2 HOUR
134B	10'-0"x12'-0"	E	STL	-	STL	CL		N	B-LABEL 1 1/2 HOUR-MOTOR OPERATOR
134C	10'-0"x12'-0"	E	STL	-	STL	CL		N	MOTOR OPERATOR, INSULATED
135	3'-0"x7'-0"x1-3/4"	B	HM	1	HM	CL		N	
136	3'-0"x7'-0"x1-3/4"	A	HM	1	HM	P		N	
137	3'-0"x7'-0"x1-3/4"	A	HM	1	HM	PP		N	
138	NOT USED	-	-	-	-	-		-	
139	NOT USED	-	-	-	-	-		-	
140	NOT USED	-	-	-	-	-		-	
141	NOT USED	-	-	-	-	-		-	
142	NOT USED	-	-	-	-	-		-	
143	3'-0"x7'-0"x1-3/4"	A	HM	1	HM	PP		N	
144	3'-0"x7'-0"x1-3/4"	A	HM	1	HM	P		N	
145	3'-0"x7'-0"x1-3/4"	A	HM	1	HM	CL		N	
146	3'-0"x7'-0"x1-3/4"	C	HM	2	HM	S	C	Y-ELEC STRIKE	
146A	3'-0"x7'-0"x1-3/4"	B	HM	1	HM	P		N	B-LABEL 1 1/2 HOUR
147	3'-0"x7'-0"x1-3/4"	B	HM	1	HM	P		N	
148	3'-0"x7'-0"x1-3/4"	B	HM	1	HM	CL		N	
149	3'-0"x7'-0"x1-3/4"	B	HM	1	HM	CL		N	
150	NOT USED	-	-	-	-	-		-	
151	3'-0"x7'-0"x1-3/4"	A	HM	1	HM	CL		N	B-LABEL 1 1/2 HOUR-MOTOR OPERATOR
152	3'-0"x7'-0"x1-3/4"	B	HM	1	HM	S	C	N	B-LABEL 1 1/2 HOUR
152A	10'-0"x12'-0"	E	STL	-	STL	CL		N	B-LABEL 1 1/2 HOUR
152B	3'-0"x7'-0"x1-3/4"	A	HM	2	HM	S	C	N	
152C	10'-0"x12'-0"	E	STL	-	STL	CL		N	MOTOR OPERATOR, INSULATED
152D	4'-0"x4'-0"x1-3/4"	D	SS	-	SS			N	1-1/2 HR S.S. W/COUNTERTOP
153	3'-0"x7'-0"x1-3/4"	A	HM	2	HM	S	U	N	
153A	3'-0"x7'-0"x1-3/4"	B	HM	1	HM	P		N	B-LABEL 1 1/2 HOUR
154	PR 3'-0"x7'-0"x1-3/4"	B	HM	1	HM	CL		N	
155	PR 3'-0"x7'-0"x1-3/4"	B	HM	1	HM	CL		N	
156	3'-0"x7'-0"x1-3/4"	A	HM	2	HM	E	C	N	
156A	3'-0"x7'-0"x1-3/4"	B	HM	1	HM	CL		N	B-LABEL 1 1/2 HOUR
156B	10'-0"x12'-0"	E	ST						



PARTIAL FURNITURE PLAN A-UNIT 2
SCALE: 1/8" = 1'-0"

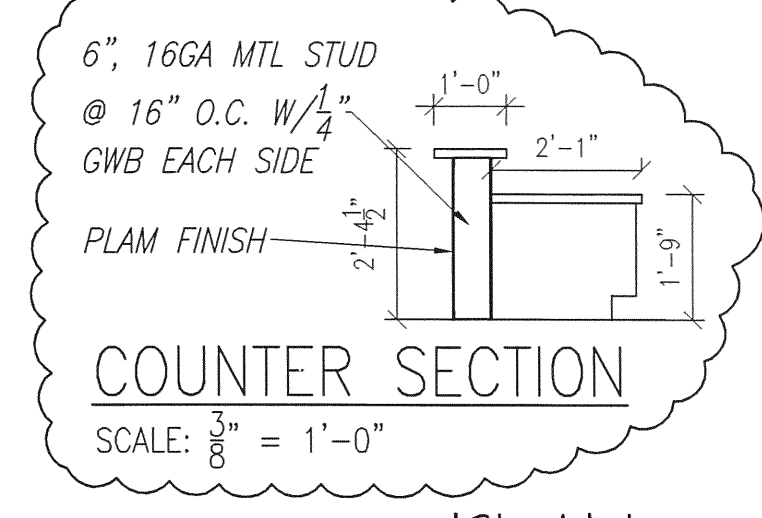
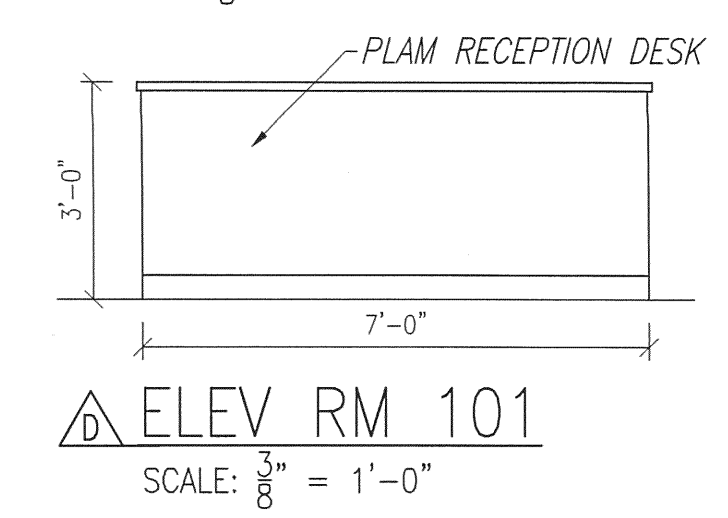
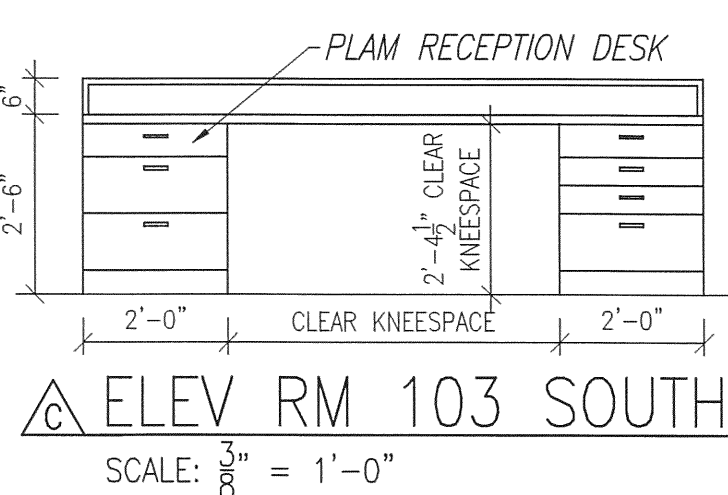
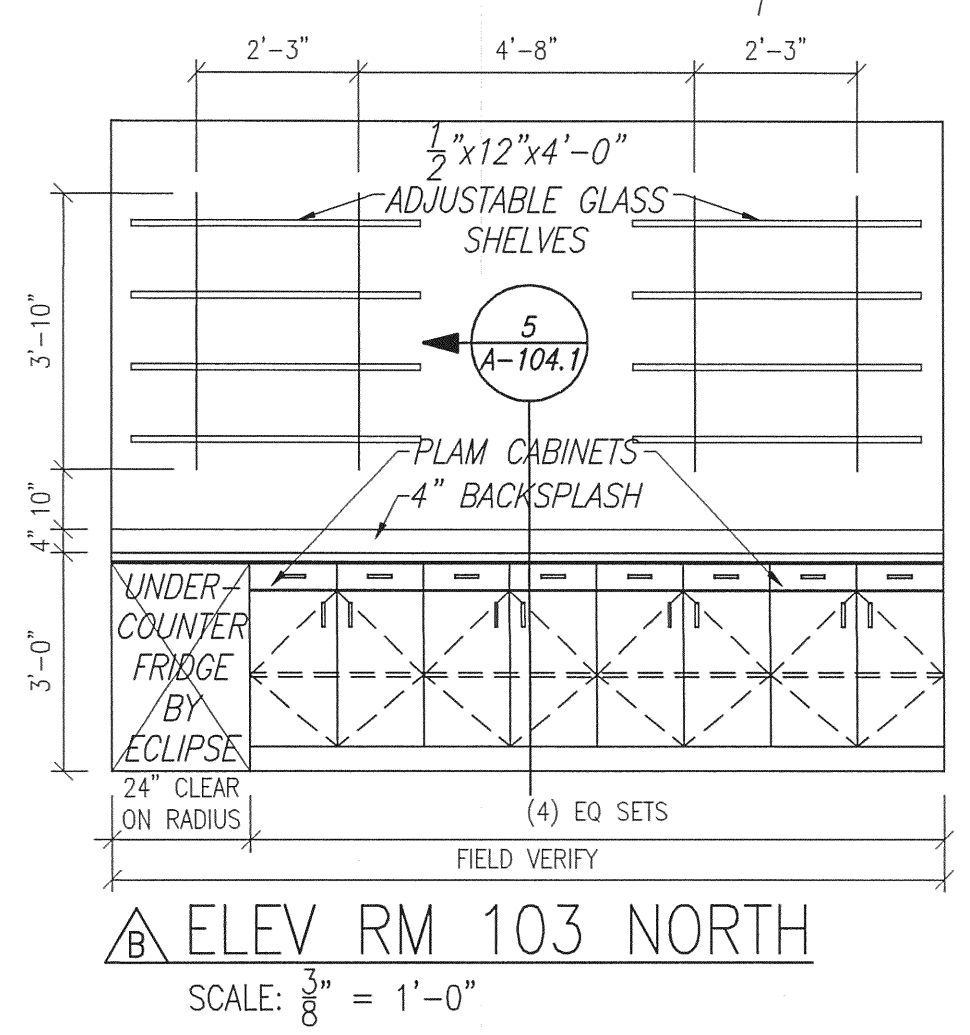
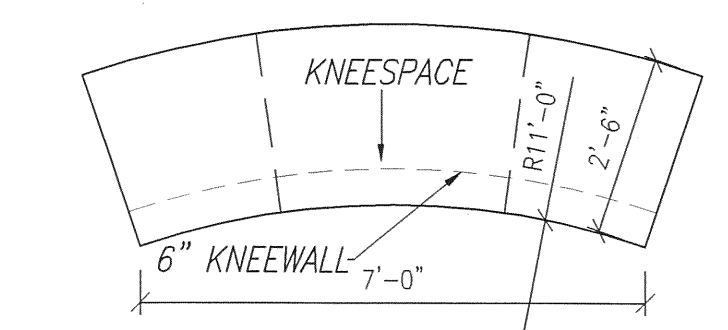
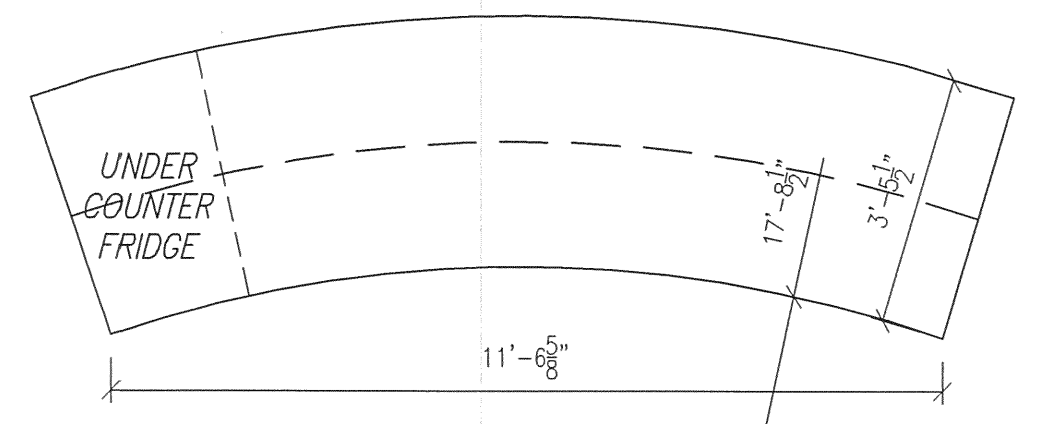
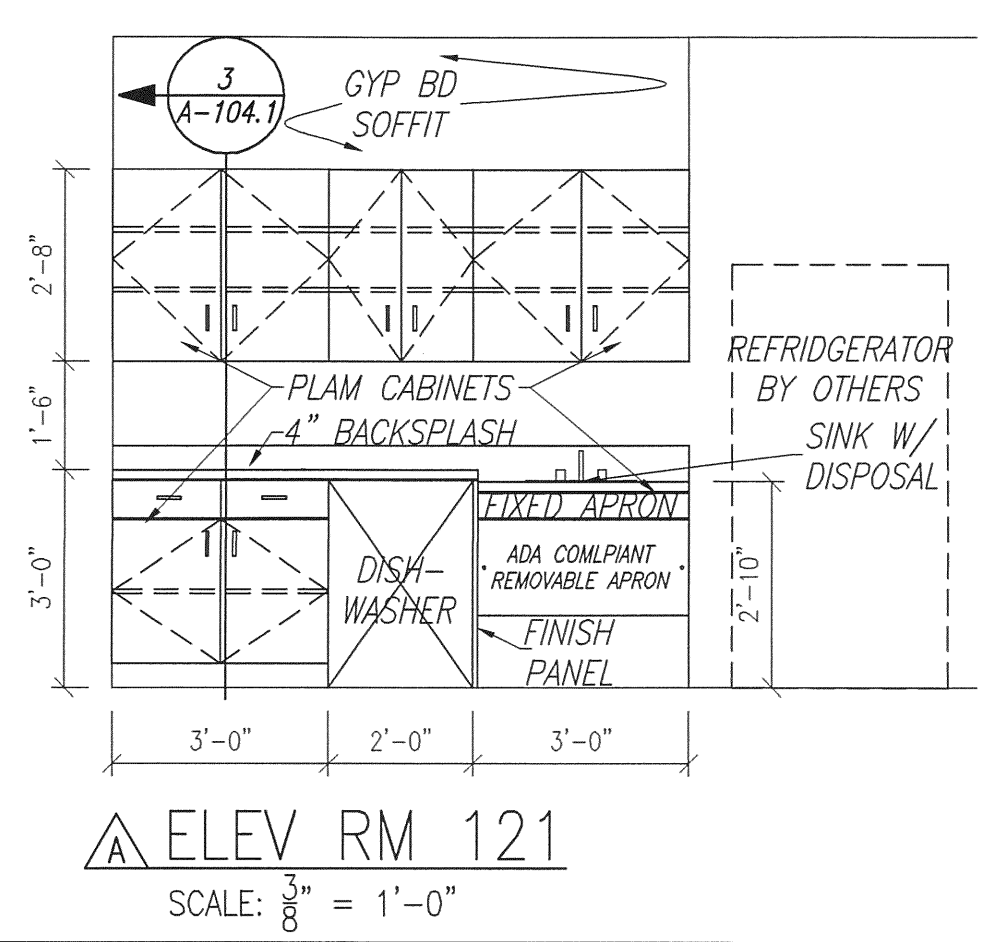


PARTIAL FURNITURE PLAN B-UNIT 3
SCALE: 1/8" = 1'-0"



PARTIAL FURNITURE PLAN C-UNIT 3
SCALE: 1/8" = 1'-0"

PLASTIC LAMINATE SCHEDULE				
IDENT	MANUF	COLOR	NUMBER	FINISH
PL-1	PIONITE	HARDROCK MAPLE	WM791	SUEDE
PL-2	NEVAMAR	AGED ELEMENTS	EM-6-1T	TEXTURED
PL-3	PIONITE	GRAPHIC TALC	AG361-S	SUEDE



LEGEND

- TB = TACK BOARD
- MB = MARKER BOARD
- PS = PROJECTION SCREEN
- WB = WINDOW BLINDS

NOTE: SEE SUBMITTALS FOR DETAILED INSTALLATION & BLOCKING REQUIREMENTS

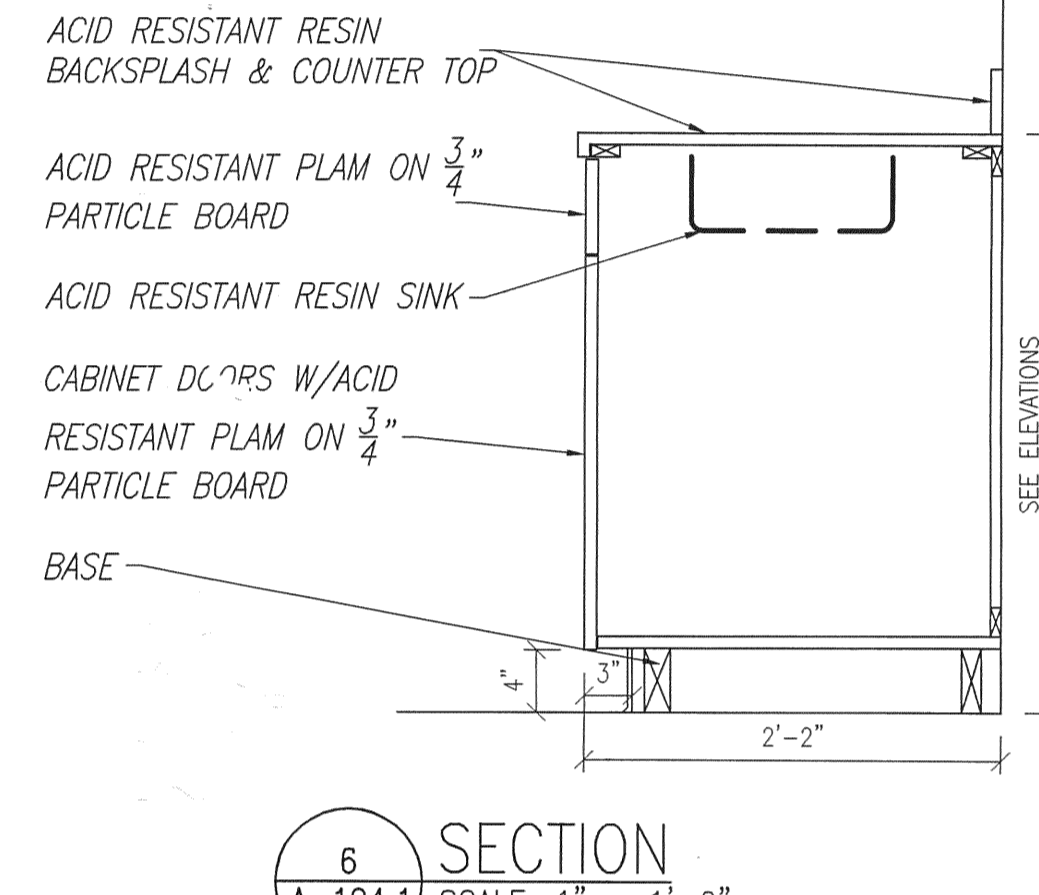
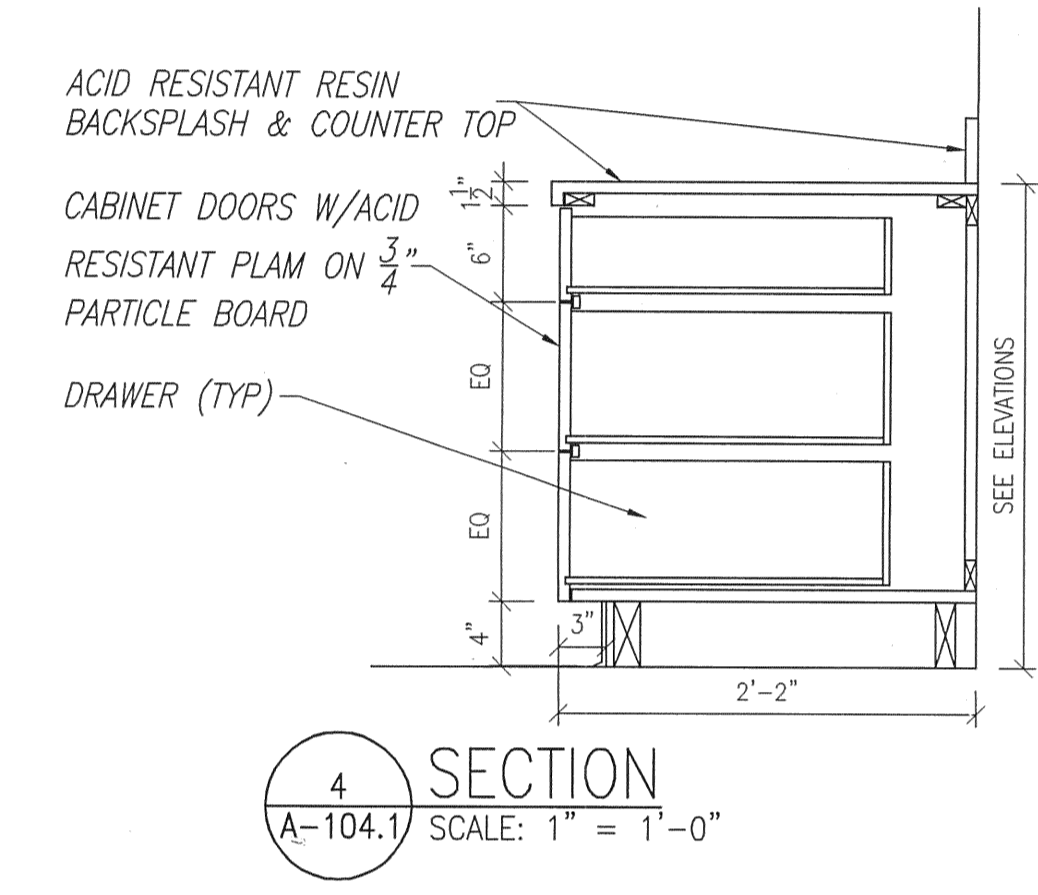
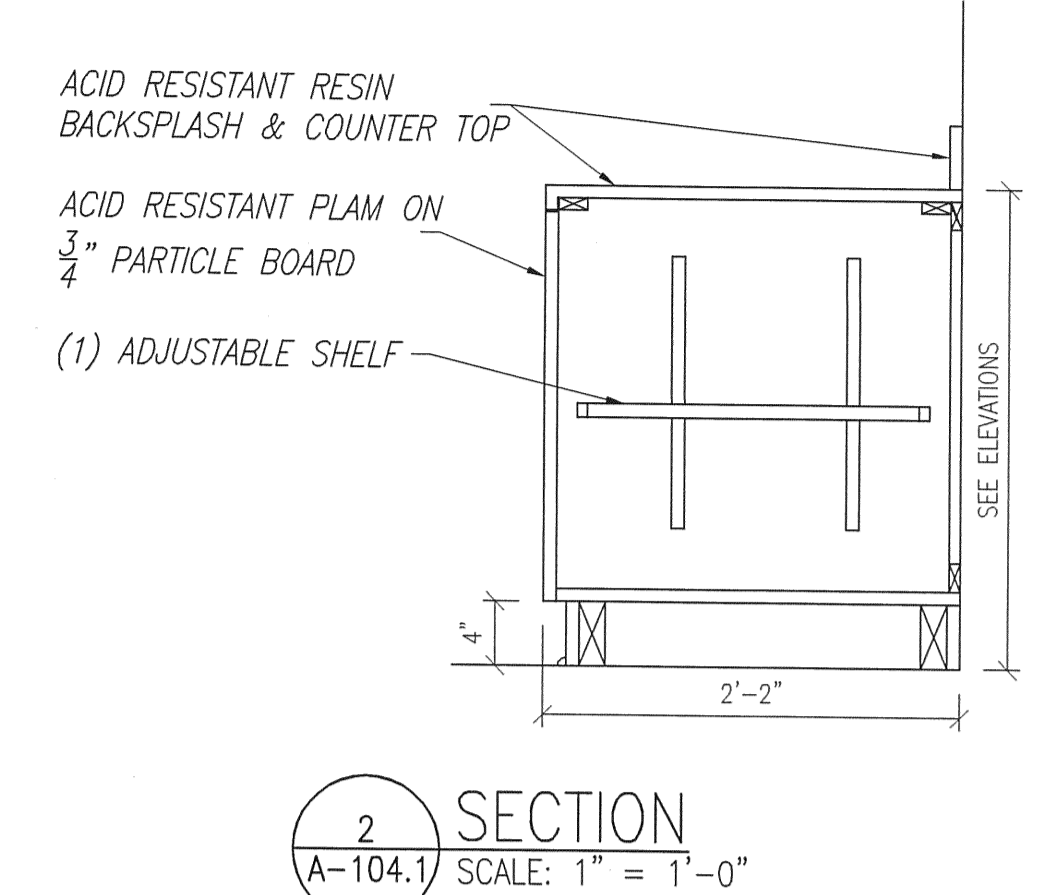
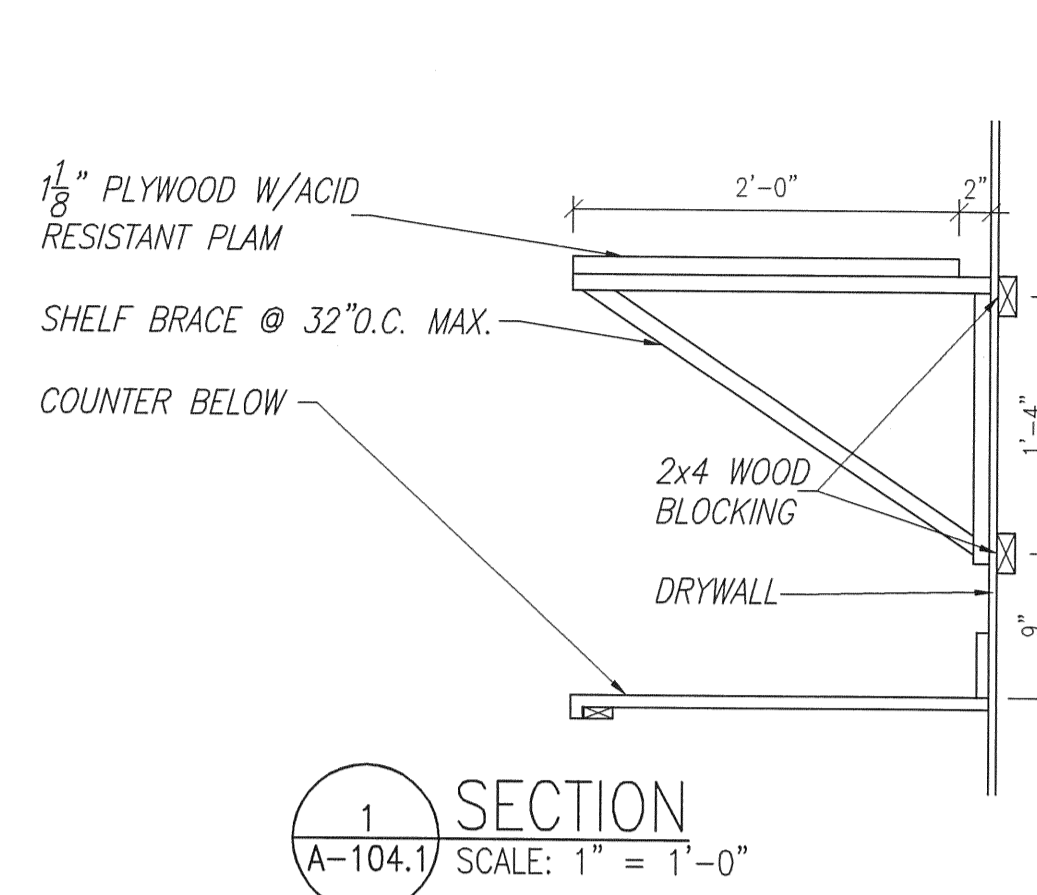
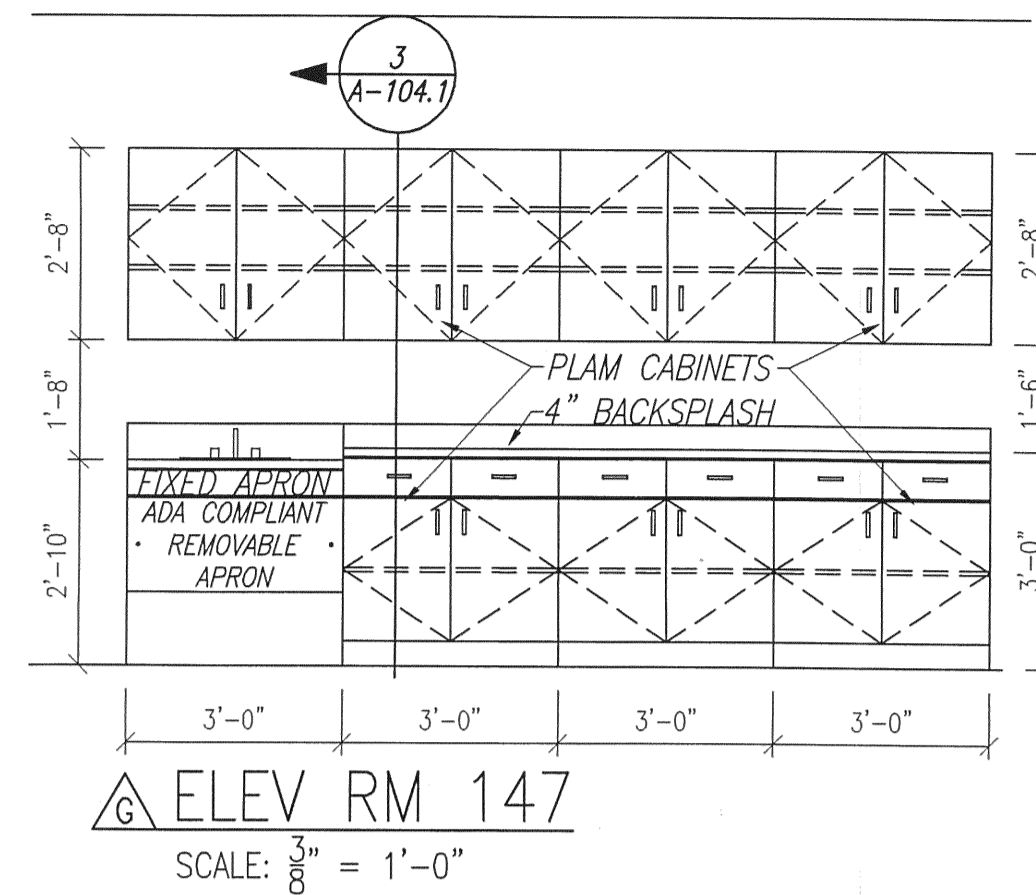
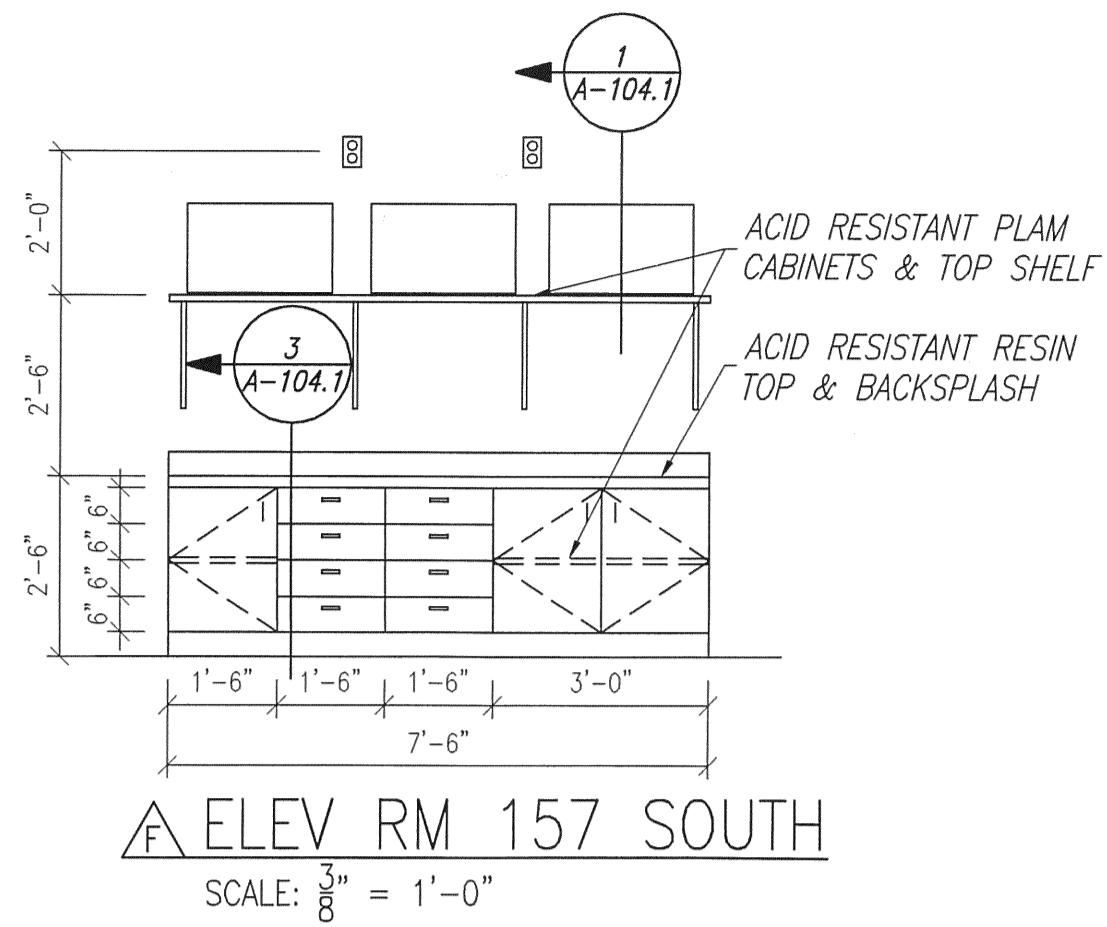
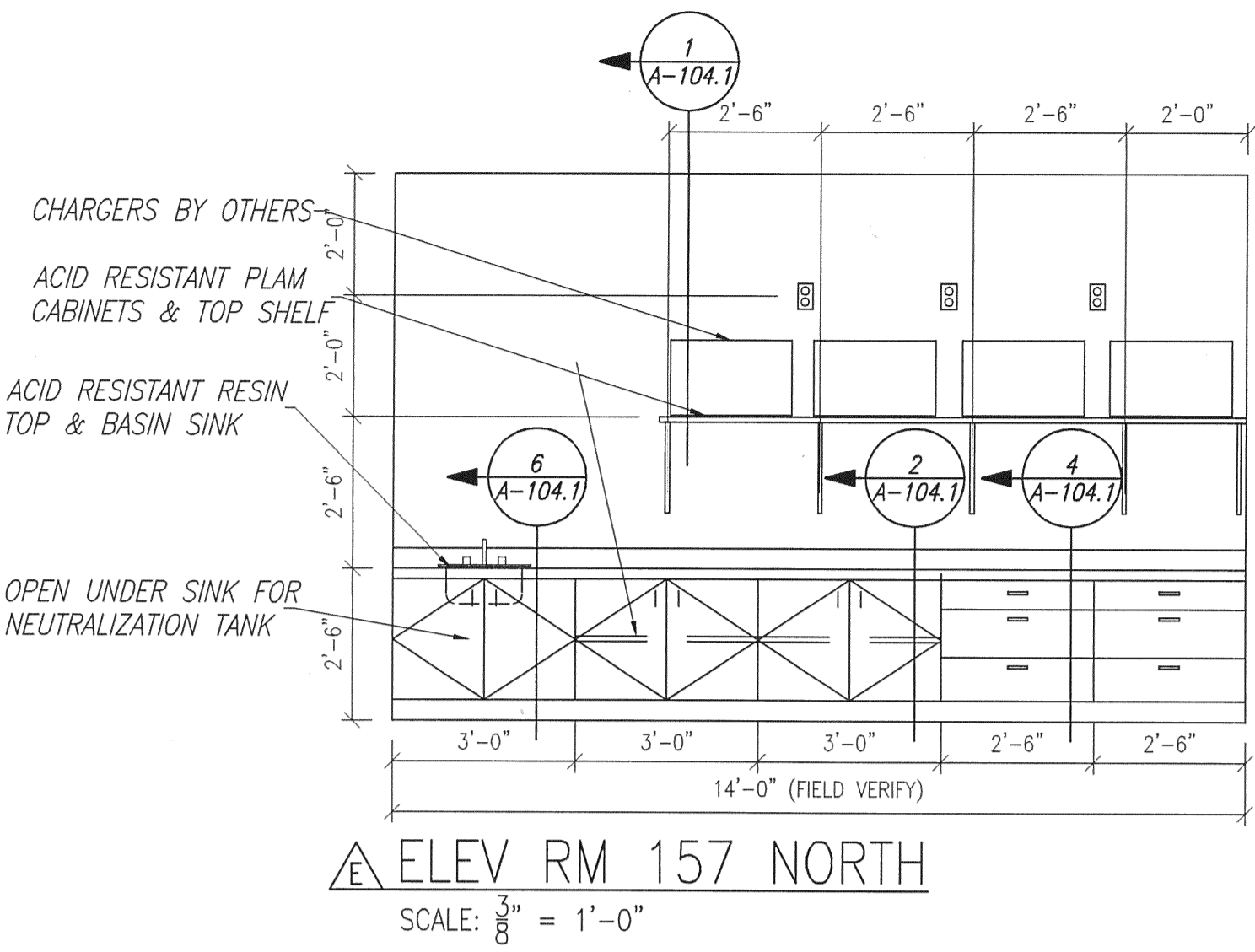
L. WENDELL RYLEE AIA
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727-921-8111 FAX 727-927-8003
E-MAIL: wendellr@rylee-designbuild.com
FLORIDA REGISTRATION: AR 18925

SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Gainesville, FL

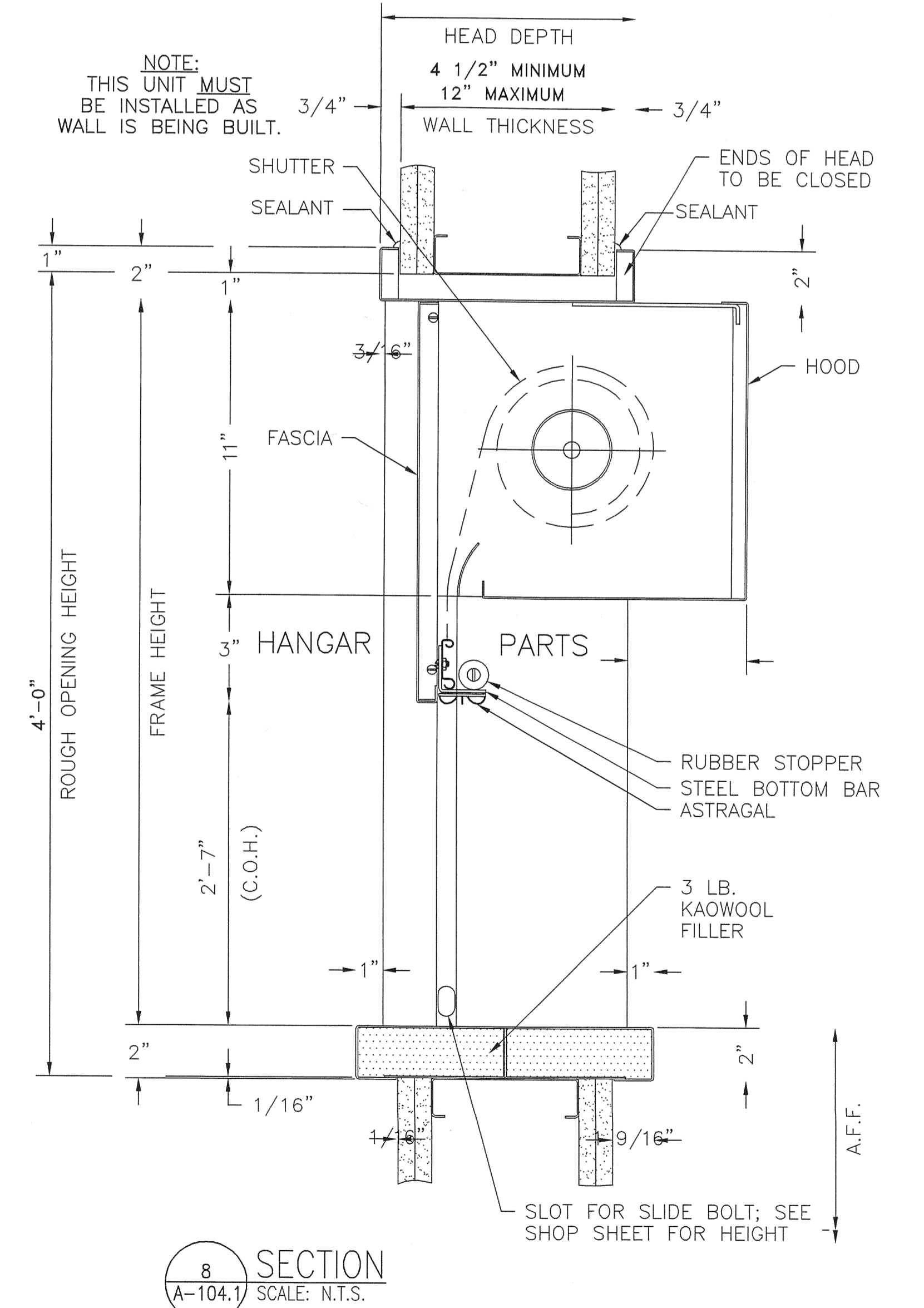
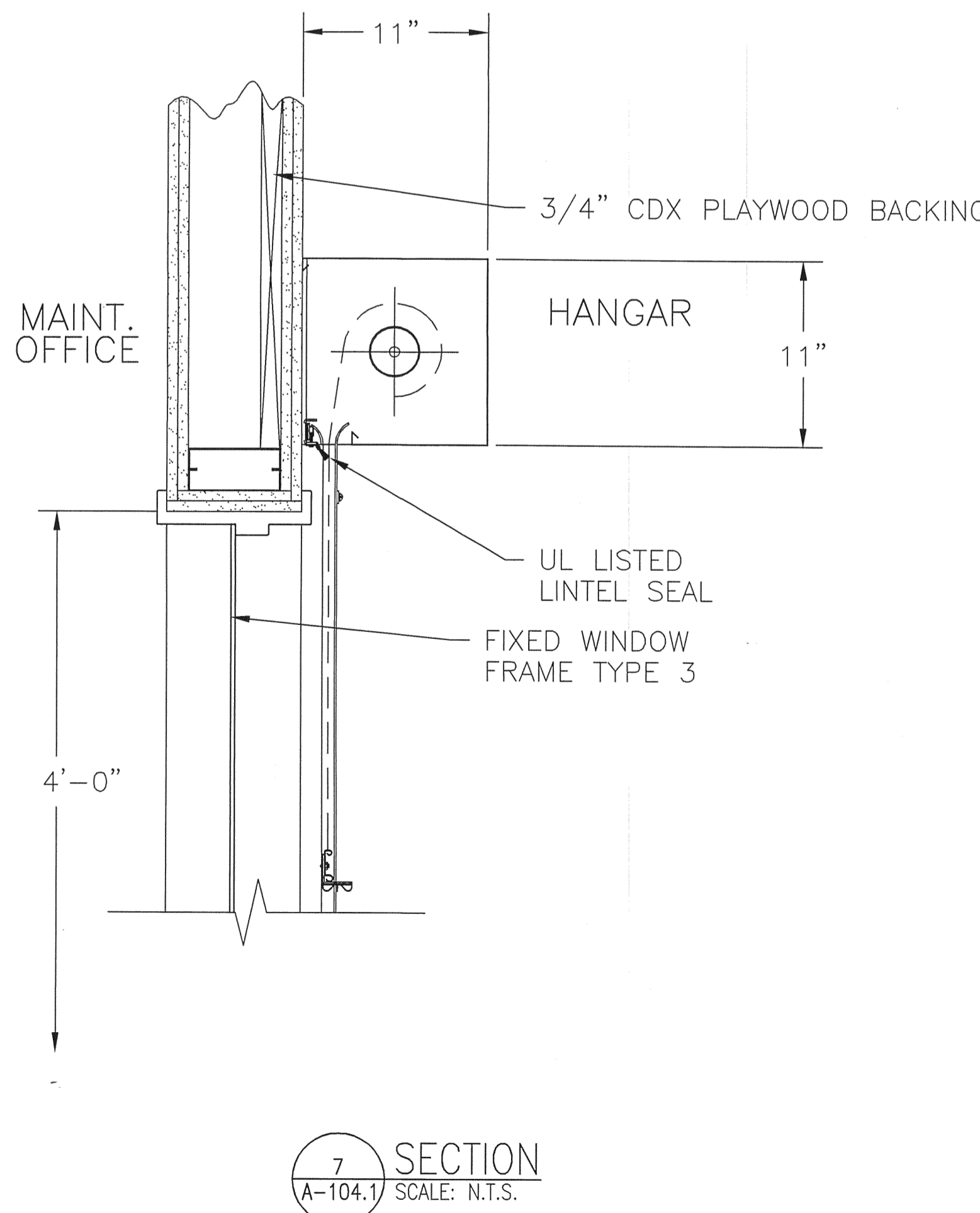
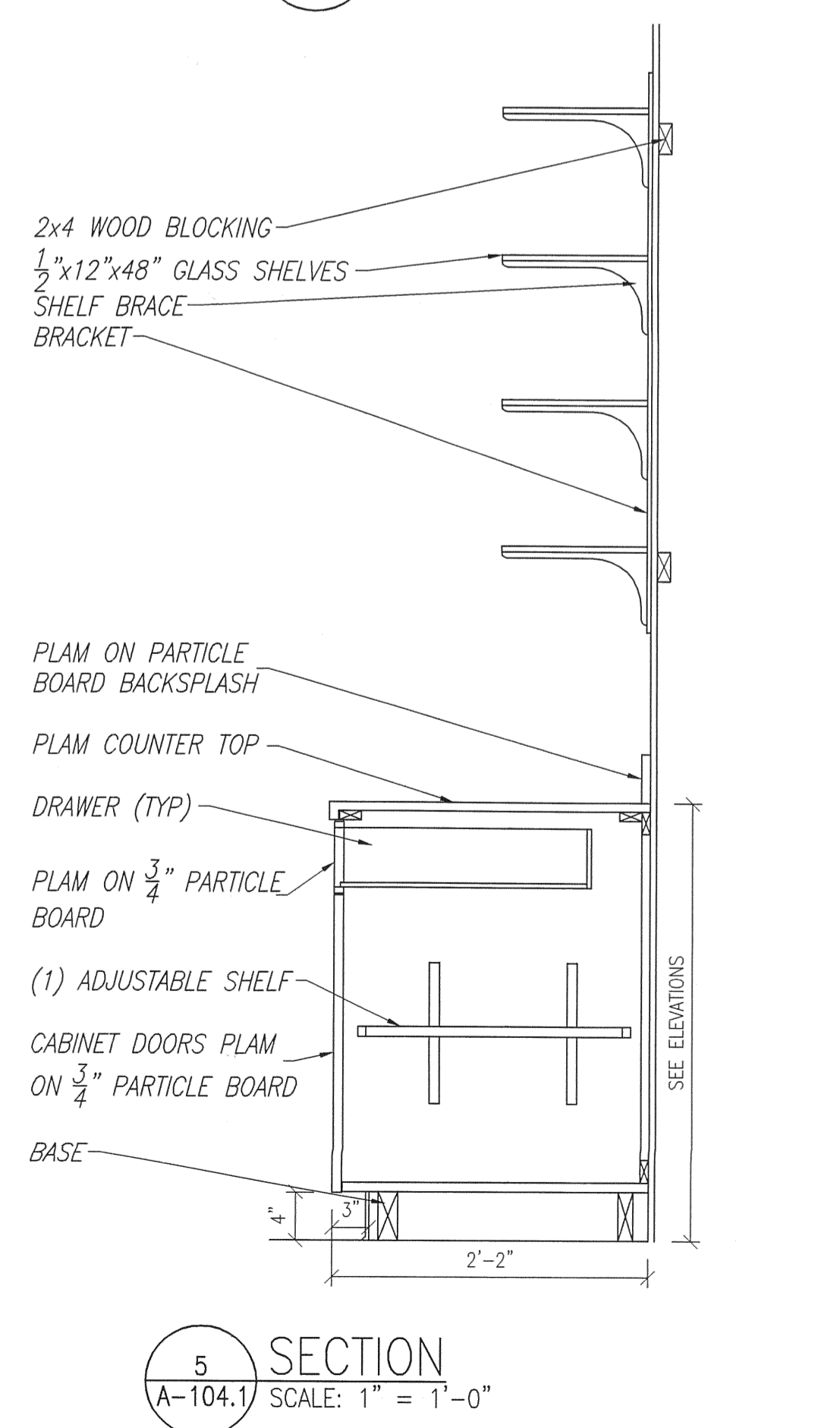
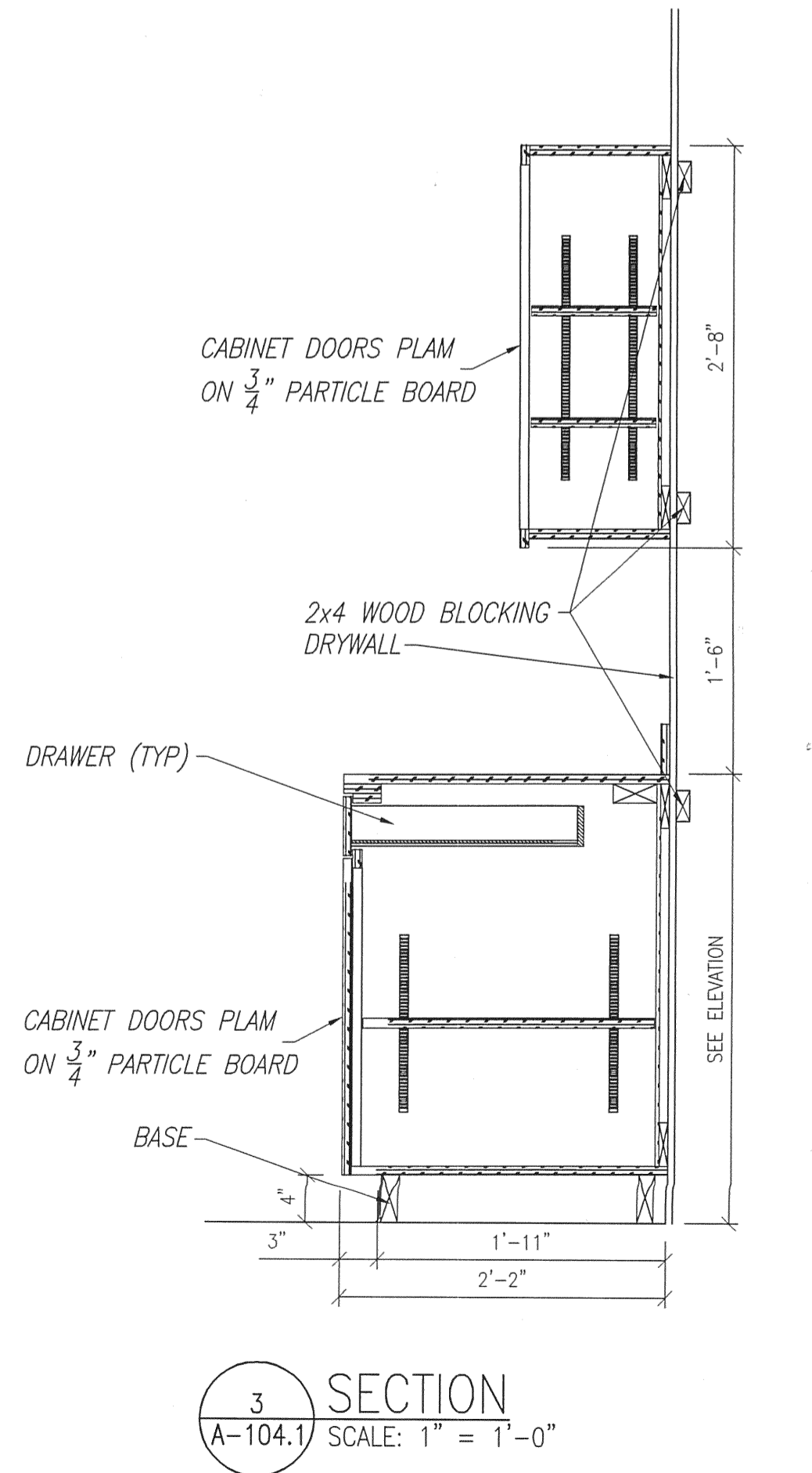
NO.	DATE	REVISION
5	4/25/07	AS-BUILT PLANS
4	10/13/06	BUILD DEPT COMMENTS/MISC
3	10/3/06	CONSTRUCTION SET
2	8/28/06	PERMIT/CONSTRUCTION SET
1	8/4/06	100% DESIGN SUBMITTAL

SCHERER
CONSTRUCTION AND ENGINEERING, LLC.
GAINESVILLE, FL (352) 371-1417
ST. PETERSBURG / ORLANDO / MACON
(800) 741-3188

JOB NO.	DATE	SCALE	NOTED	NO.
06-622	5/15/06	NOTED		A-104



PLASTIC LAMINATE SCHEDULE			
IDENT	MANUF	COLOR	NUMBER FINISH
PL-1	PIONITE	HARDROCK MAPLE	WM791 SUEDE
PL-2	NEVAMAR	AGED ELEMENTS	EM-6-1T TEXTURED
PL-3	PIONITE	GRAPHIC TALC	AG361-S SUEDE



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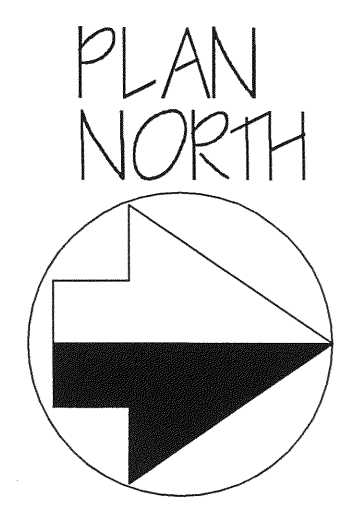
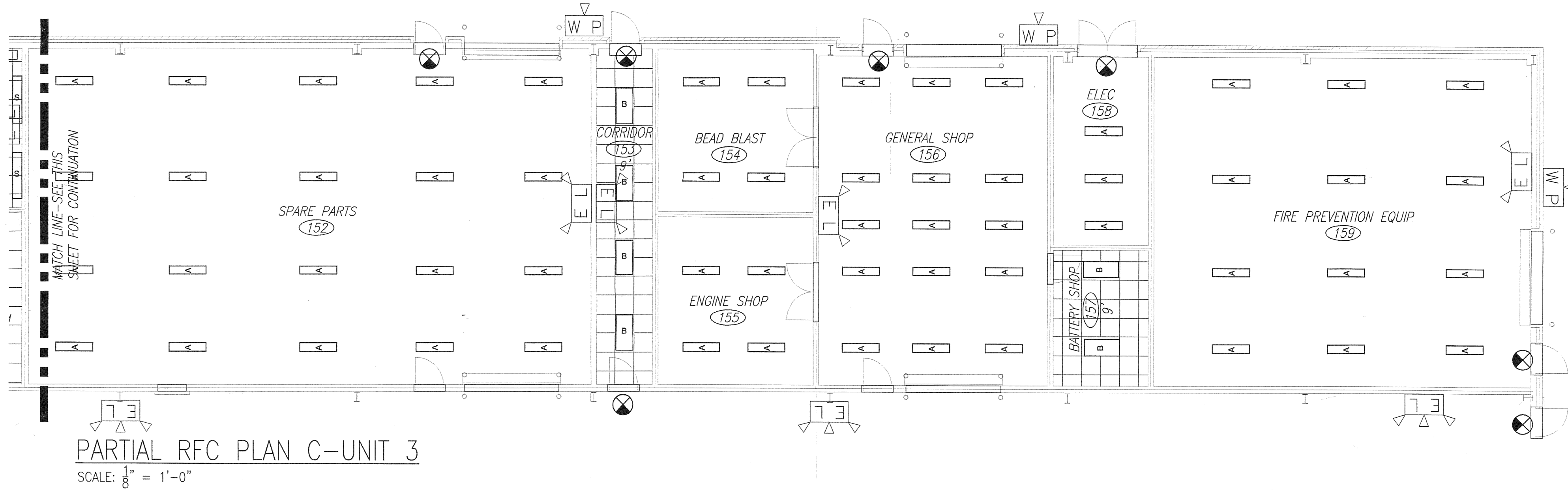
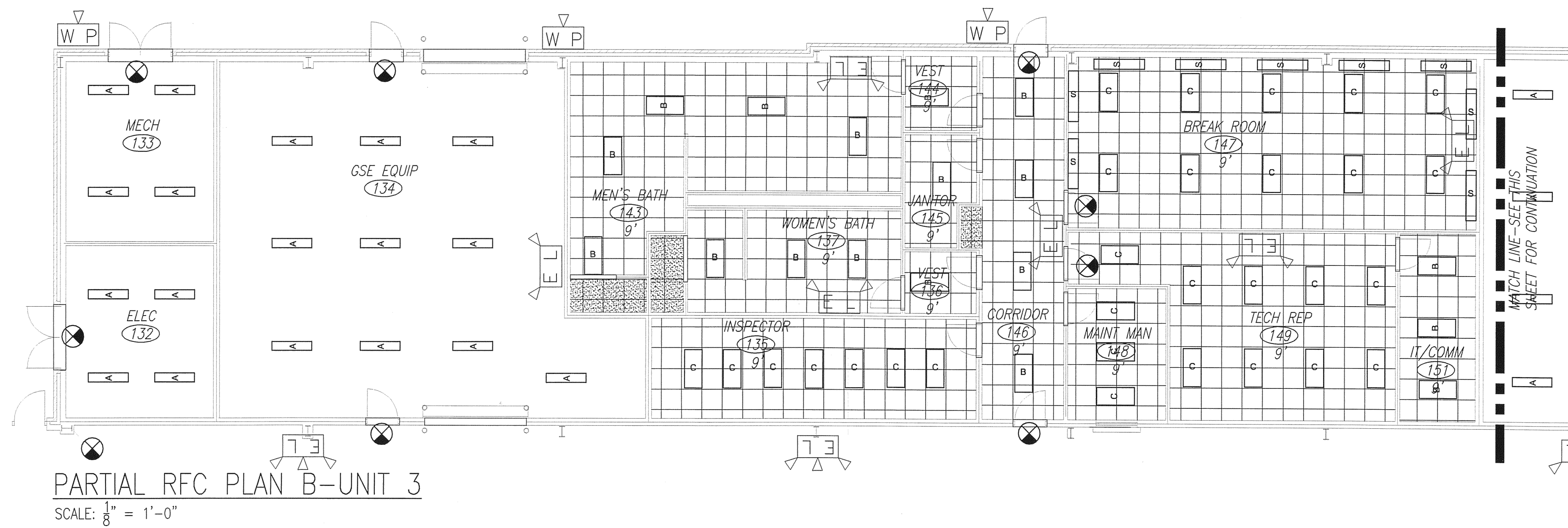
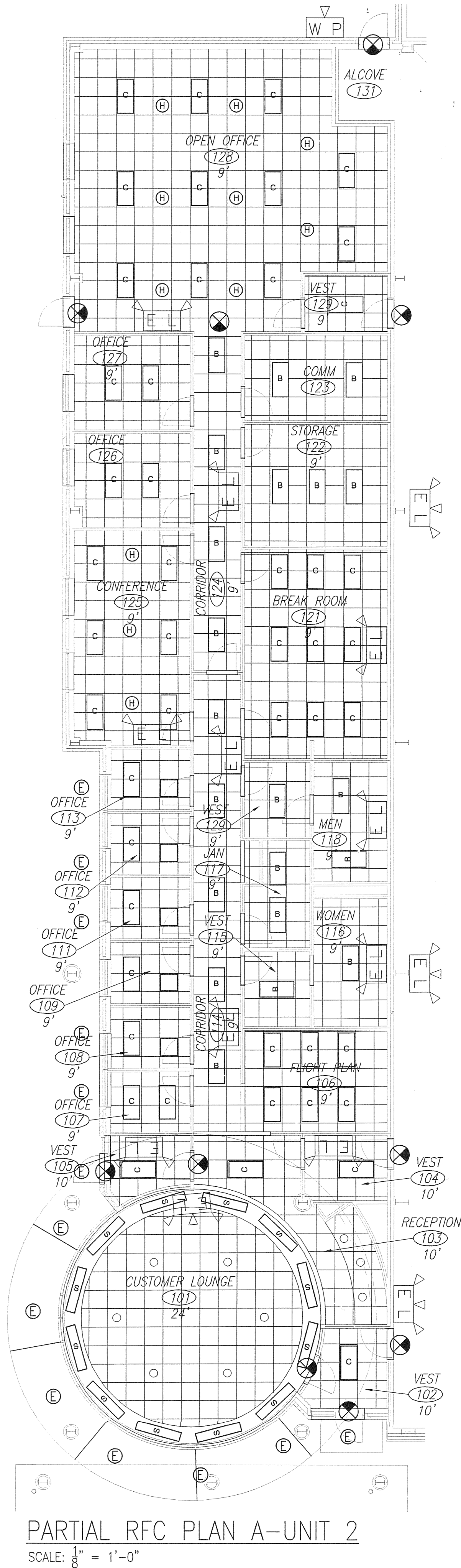
SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Gainesville, FL

NO.	DATE	REVISION
1	8/17/06	FLOOR DESIGN SUBMITTAL
2	8/28/06	PERMIT/CONSTRUCTION SET
3	10/23/06	CONSTRUCTION SET
4	4/25/07	AS-BUILT PLANS

SCHERER
CONSTRUCTION AND ENGINEERING, LLC.
GAINESVILLE, FL (352) 371-1417
ST. PETERSBURG / ORLANDO / MACON
(800) 741-3188

100% NO. 06-622
DRAWN: LEM
DATE: 5/15/06
SCALE: N/T/D
SHEET: A-104.1
Doug Wilcox, Scherer Construction 4/4/00 11:27 AM ARCH_SECTION_SHEET.dwg

CONSTRUCTION PLANS
INTERIOR ELEV



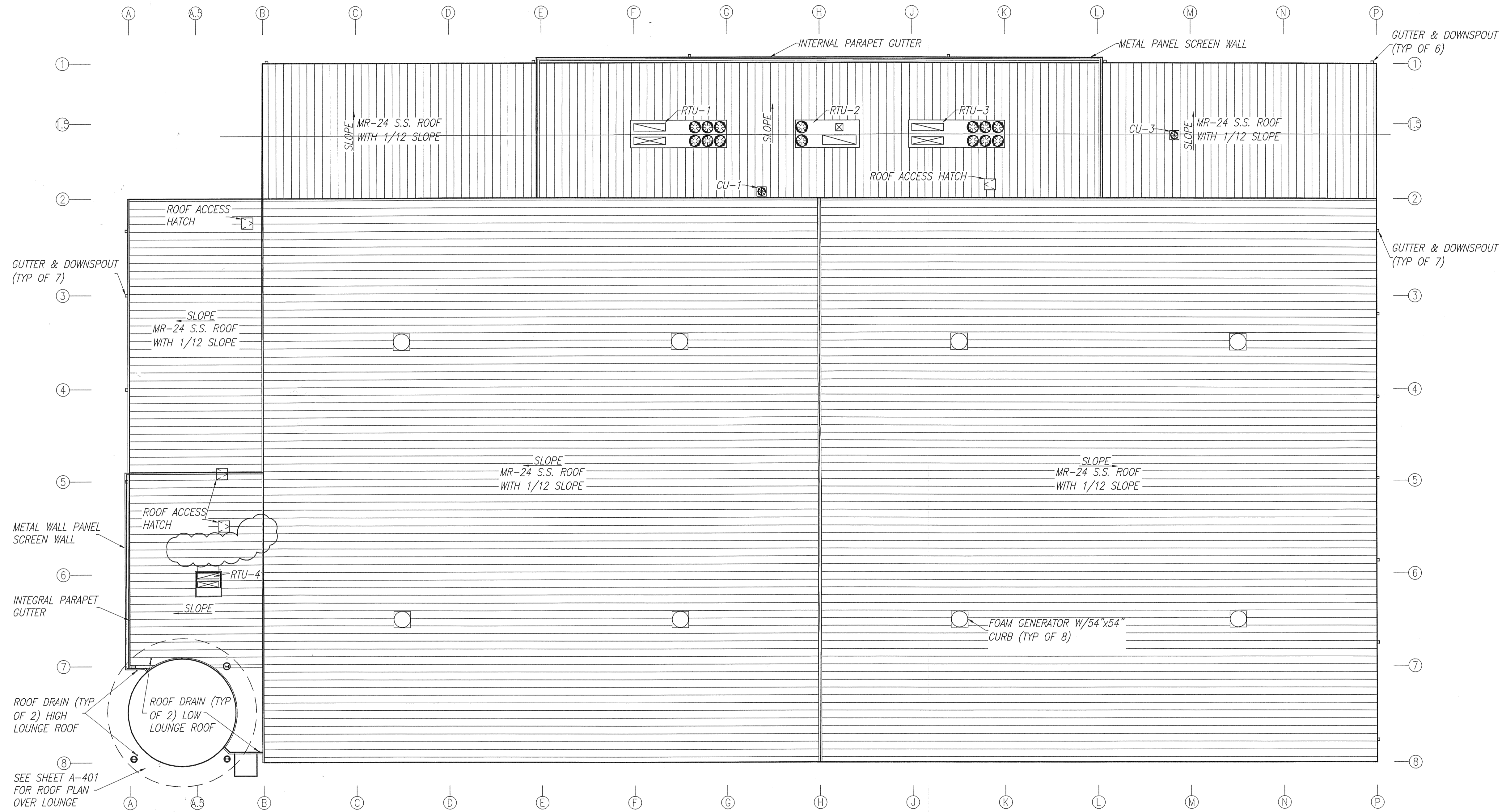
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FLORIDA REGISTRATION A1 18925

SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Tampa, FL

NO.	DATE	REVISION
1	8/14/06	100% DESIGN SUBMITTAL
2	8/28/06	PERMIT/CONSTRUCTION SET
3	10/3/06	CONSTRUCTION SET
4	4/25/07	AS-BUILT PLANS

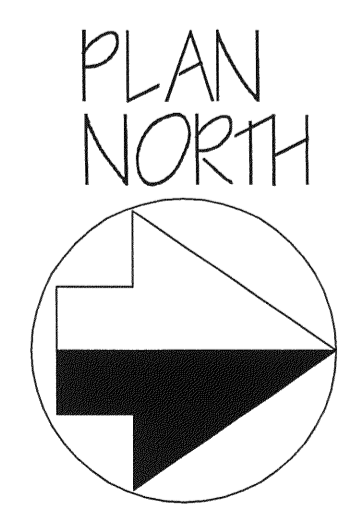
SCHERER
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(800) 741-3188

JOB NO.	C6-622
DRAWN	JEM
DATE	9/15/06
SCALE	NOTED
SHEET	A-105



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

SEE SHEET A-401 FOR ROOF PLAN OVER LOUNGE



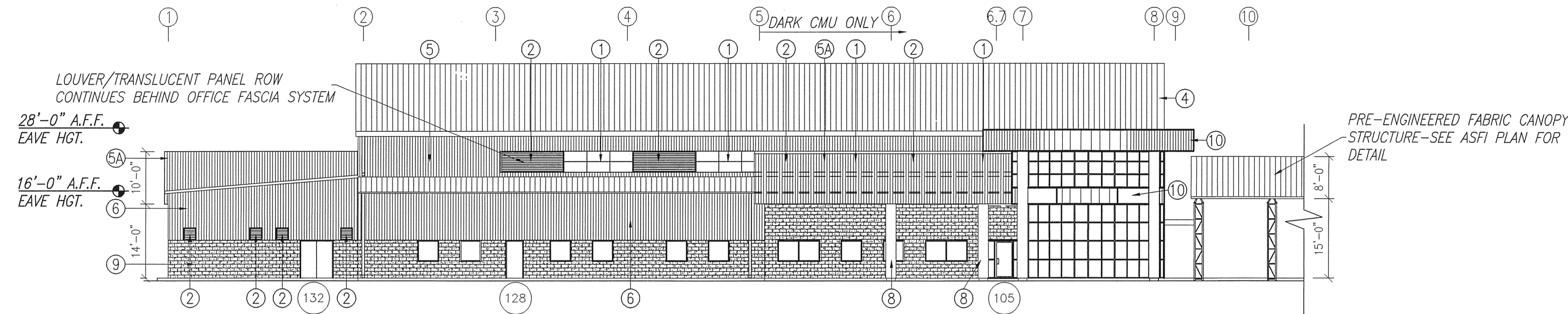
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FLORIDA REGISTRATION #119925

SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Gainesville, FL
ROOF PLAN CONSTRUCTION PLANS

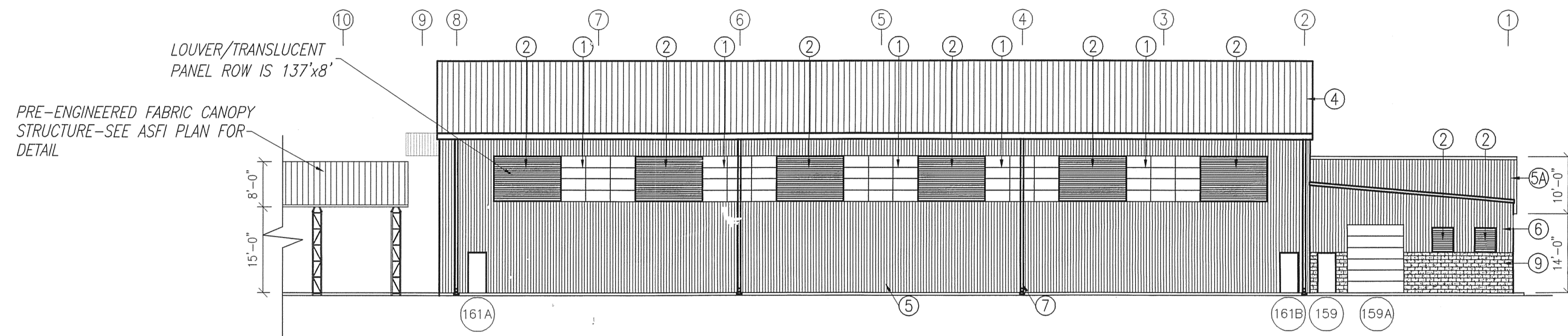
NO.	DATE	REVISION
3	4/25/07	AS-BUILT PLANS
2	10/13/06	BLDG DEPT COMMENTS/MISC CONSTRUCTION SET
1	10/3/06	

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CONSTRUCTION AND ENGINEERING, LLC.
GAINESVILLE, FL (352) 371-1417
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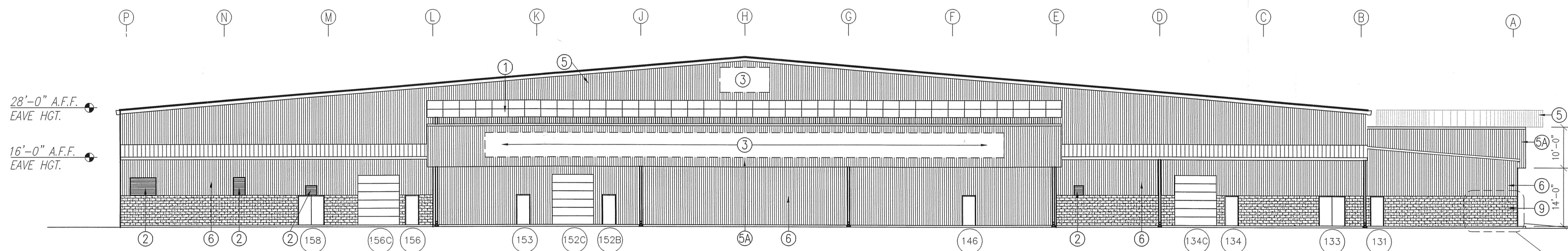
JOB NO.	06-672
DRAWN	JEM
DATE	5/19/06
SCALE	NOTED
SHT.	A-105



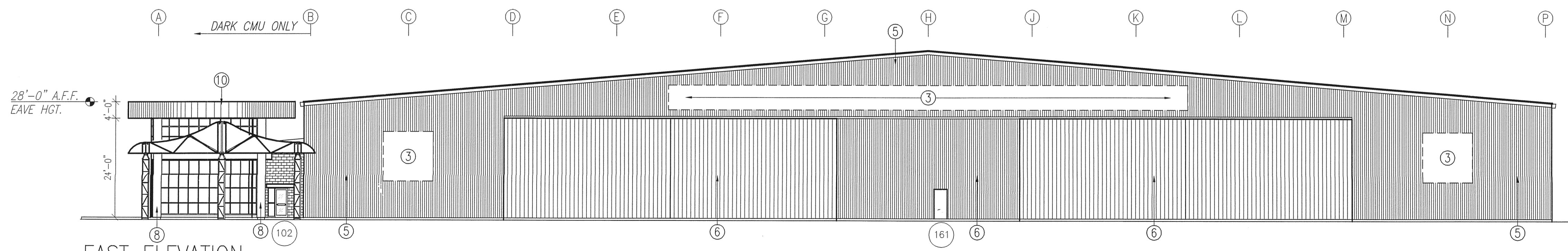
SOUTH ELEVATION
SCALE: $\frac{1}{16}'' = 1'-0''$



NORTH ELEVATION
SCALE: $\frac{1}{16}'' = 1'-0''$



WEST ELEVATION
SCALE: $\frac{1}{16}'' = 1'-0''$

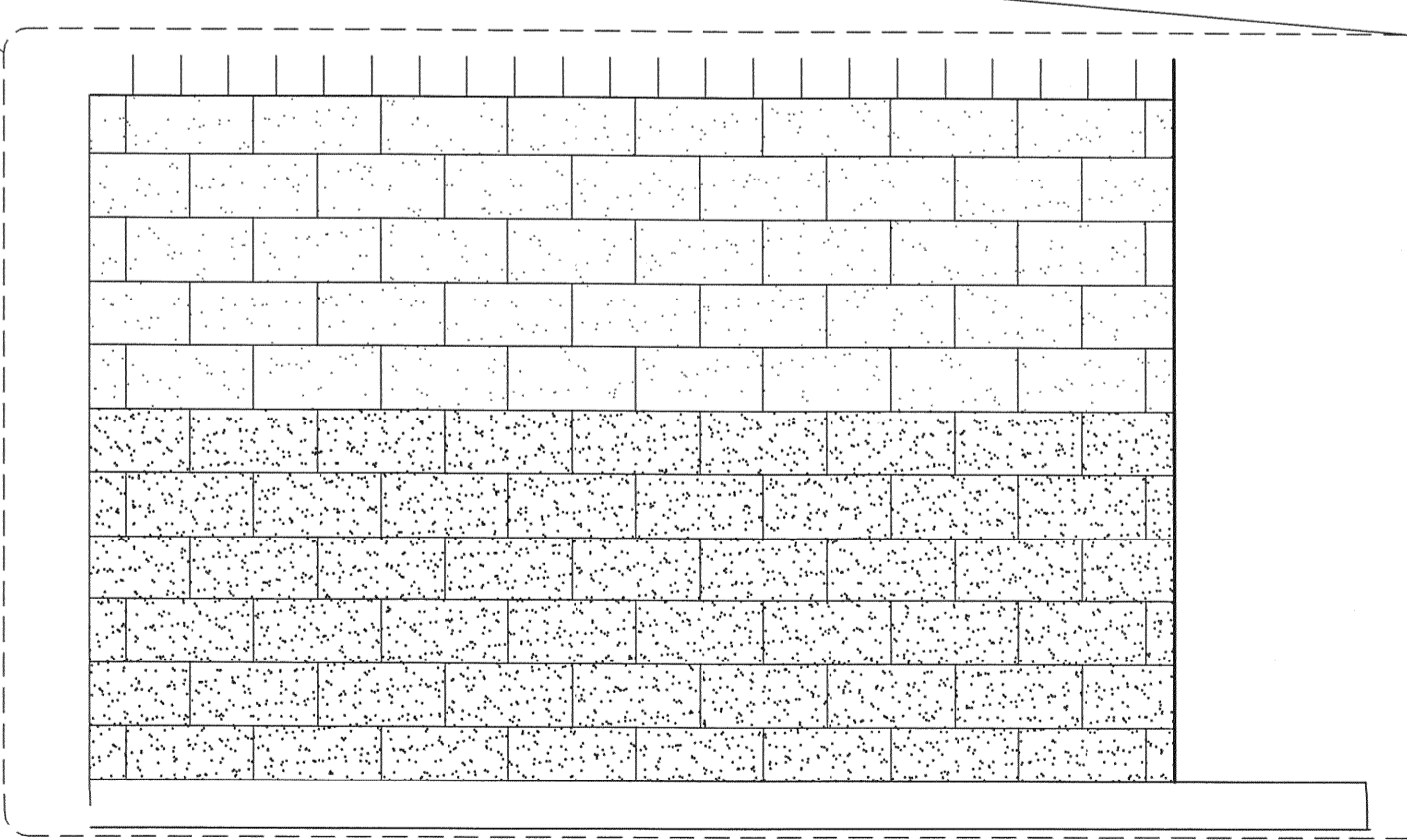


EAST ELEVATION
SCALE: $\frac{1}{16}'' = 1'-0''$

MATERIAL LEGEND	COLOR
① KALWALL TRANSLUCENT INSULATED PANELS	SEE ELEVATION NOTE 2
② LOUVERS	SEE ELEVATION NOTE 7
③ EXTERIOR BUILDING SIGNAGE	
④ BUTLER MR-24 S.S. ROOF PANEL	BUTLER SOLAR WHITE
⑤ BUTLER RIB II PANEL-COLOR 1	BUTLER SOLAR WHITE
⑥A BUTLER RIB II PANEL-COLOR 2	BUTLER MESA GRAY
⑥B SHADOWWALL	BUTLER SHELL GRAY
⑦ DOWNSPOUT W/CONC SPLASHBLOCK	MATCH ADJACENT WALL PANEL
⑧ FIBER REINFORCED COLUMN COVER	MATCH MESA GRAY
⑨ SPLIT-FACE CMU	SEE ELEVATION NOTE 6
⑩ EIFS	DRY-VIT TERRAZZO FINISH
EAVE, GABLE, GUTTER TRIM	MATCH ADJACENT WALL PANEL

ELEVATION NOTES:

- METAL ROOF & WALL PANELS SHALL BE FLUOROPOLYMER (KYNAR) COLOR COATED W/ MFR'S STANDARD COLORS FOR ROOF AND WALL PANELS TYPES 1 & 2. WALL PANEL COLOR 2 SHALL BE A CUSTOM COLOR.
- INSULATED, TRANSLUCENT PANELS
- METAL ROOF SYSTEM SHALL BE MR-24 BY BUTLER MANUFACTURING.
- METAL WALL PANEL PROFILE SHALL BE BR11 & SHADOWWALL BY BUTLER MANUFACTURING. SEE MATERIAL LEGEND FOR PANEL TYPE.
- BUILDING SIGNS INDICATED ARE TO BE LIGHTED (TYPE OF LIGHTING VARIES, SEE SIGNAGE SUBMITTAL). VERIFY SIGN TEXT AND GRAPHICS W/ TENANT. SIZES OF SIGNS SHALL BE IN ACCORDANCE'S WITH CITY OF GAINESVILLE SIGNAGE REGULATIONS.
- SPLIT-FACED CMU TO BE ARCHITECTURAL PRE-COLORED BLOCK. BLOCK TO CONSIST OF ALTERNATING LIGHT/DARK COLOR (COLOR 1/COLOR 2). COLORS TO BE SELECTED BY OWNER.
- REFER TO LOUVER SHOP DRAWINGS AND SHEET M2 FOR LOUVER DIMENSIONS AND INSTALLATION DETAILS.



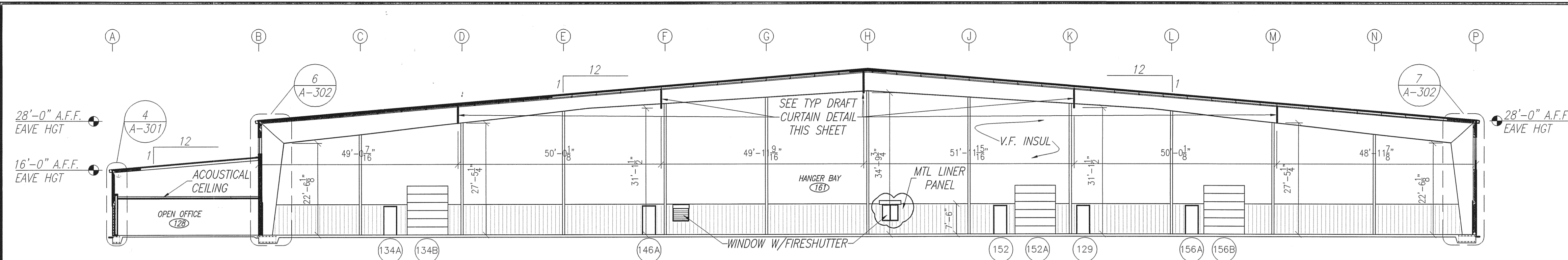
L. WENDELL RYLEE AIA
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FLORIDA REGISTRATION: AR 18865

SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Gainesville, FL
EXT ELEVATIONS CONSTRUCTION PLANS

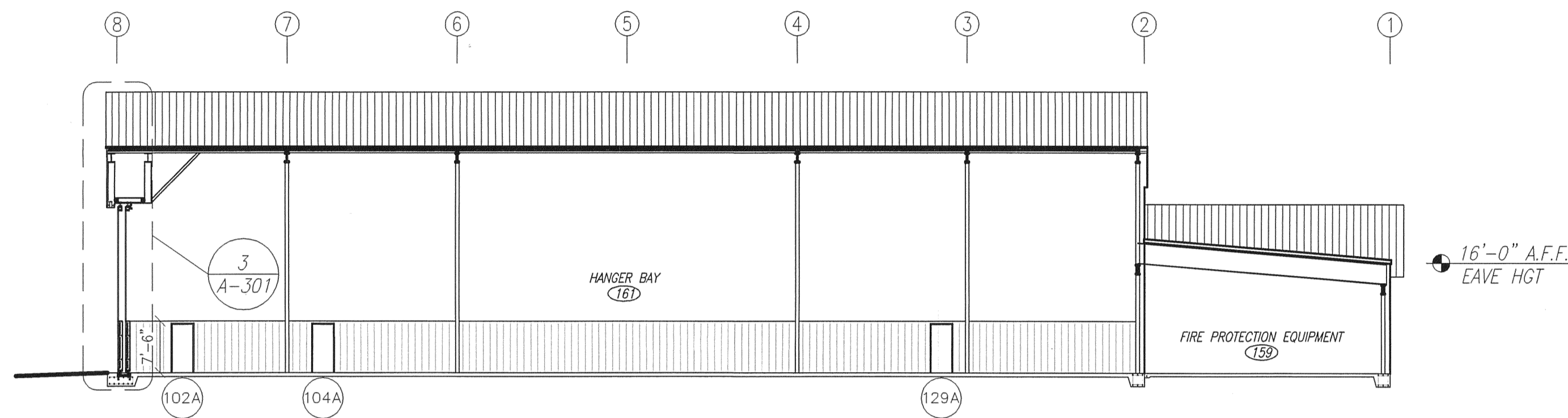
NO.	DATE	REVISION
1	8/4/06	100% DESIGN SUBMITTAL
2	8/28/06	PERMIT/CONSTRUCTION SET
3	10/3/06	CONSTRUCTION SET
4	4/25/07	AS-BUILT PLANS

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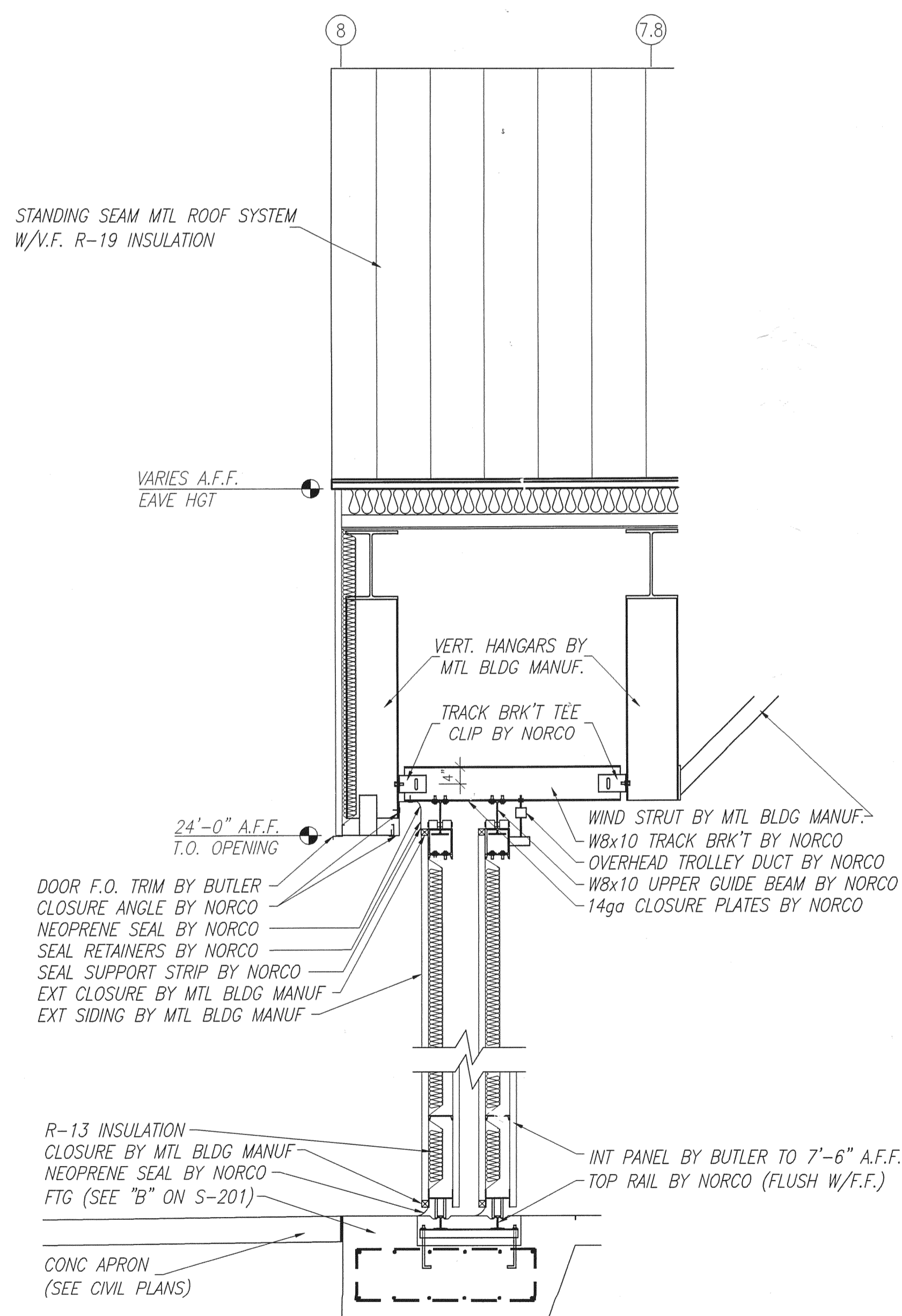
JOB NO.	06-622
DRAWN	JEM
DATE	5/15/06
SCALE	NOTED
SHT.	A-20



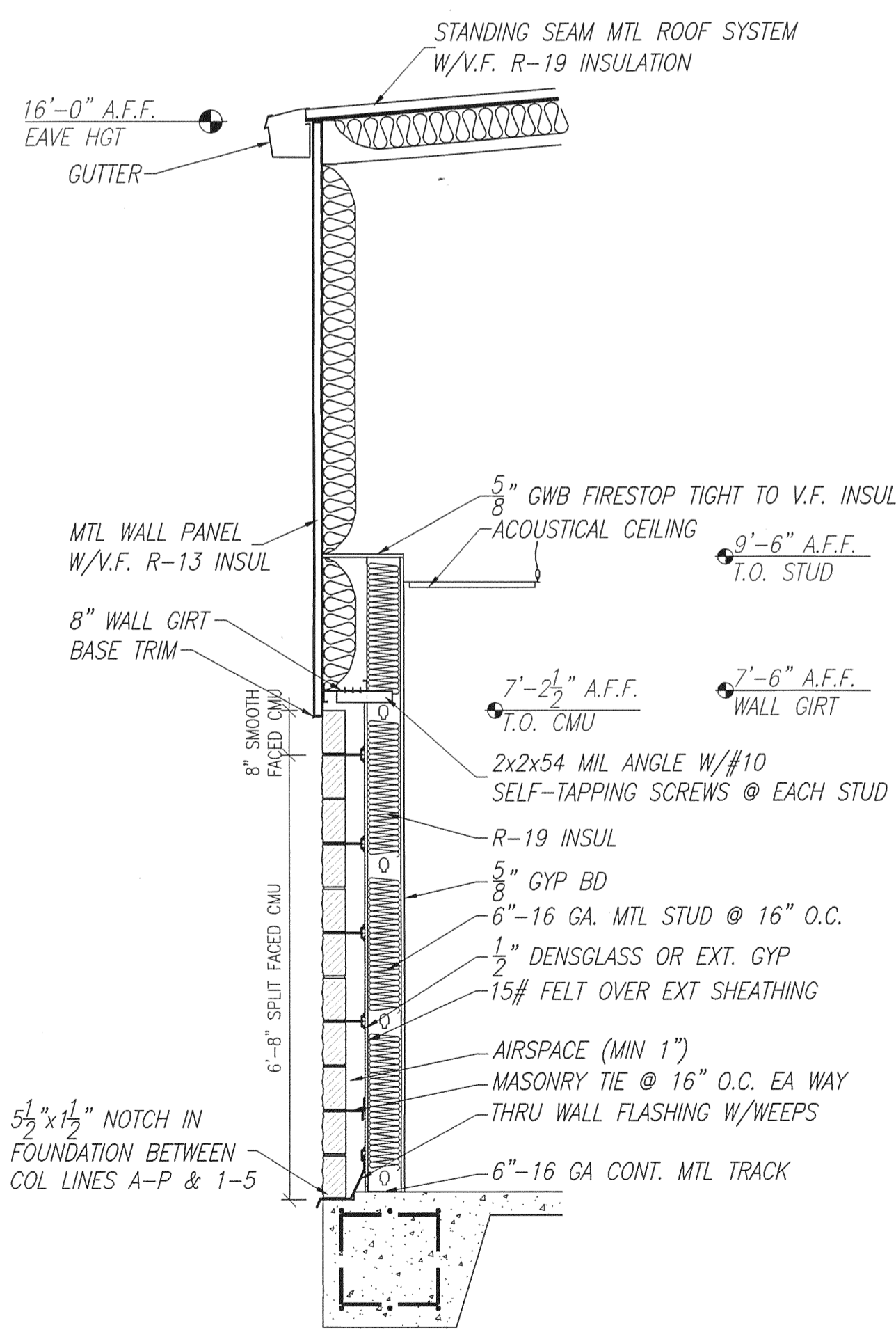
1 BUILDING SECTION
A-301
SCALE: 1/16" = 1'-0"



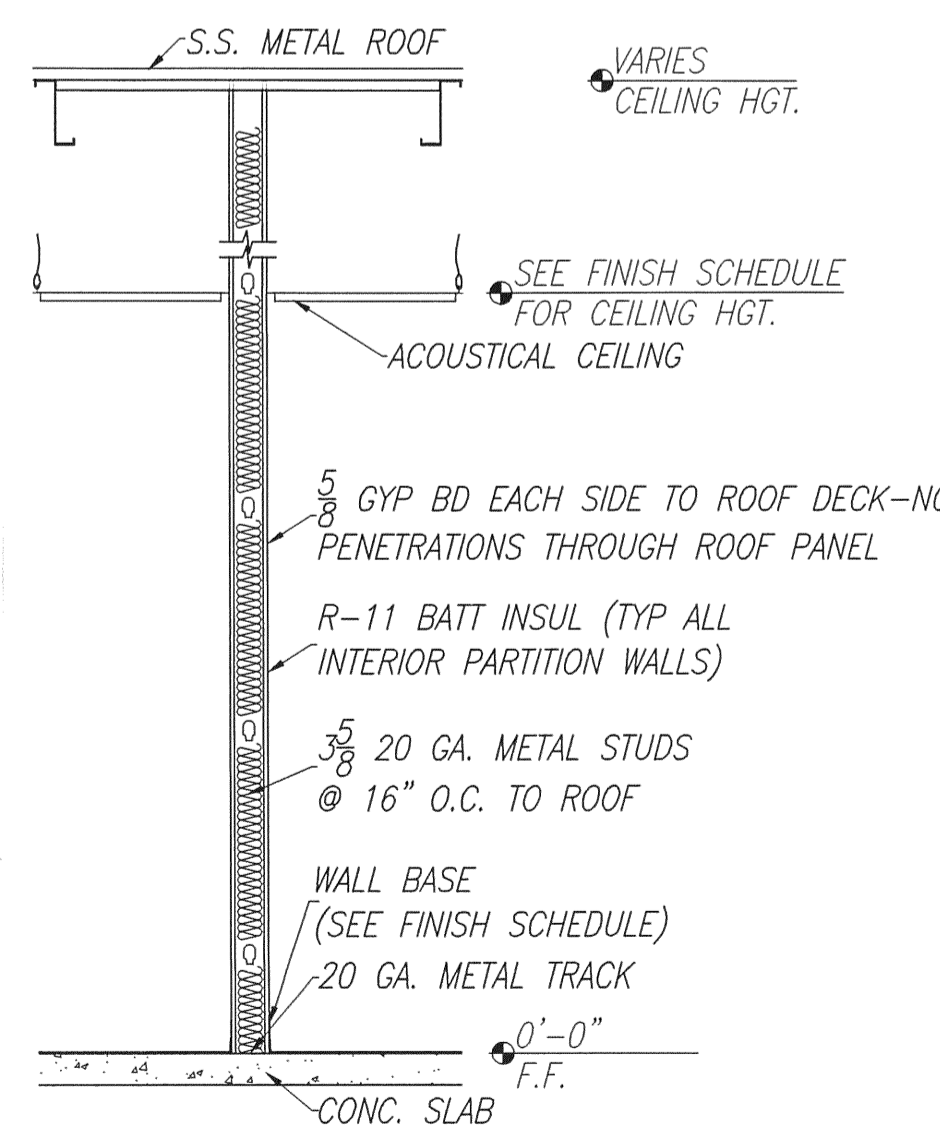
2 BUILDING SECTION
A-301
SCALE: 1/16" = 1'-0"



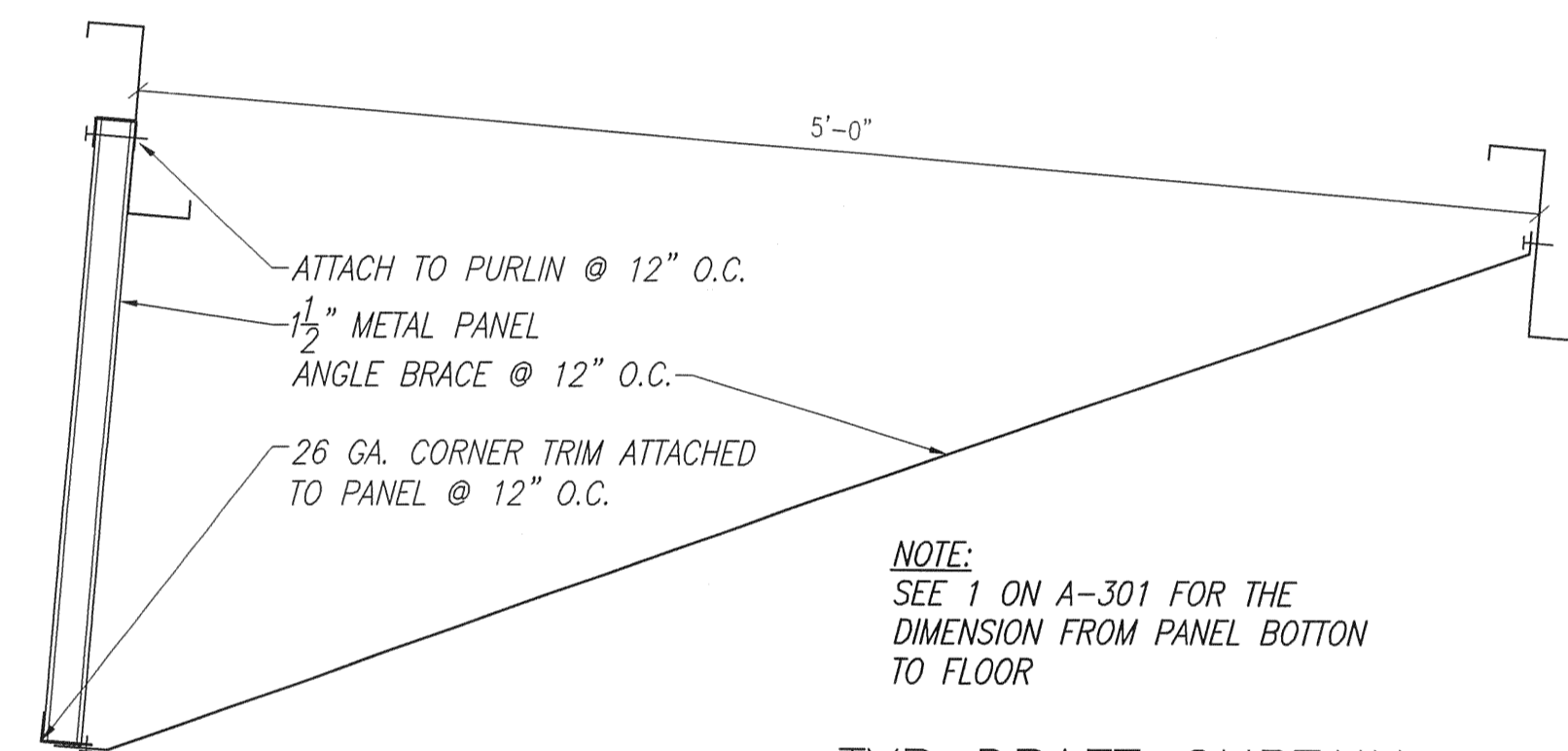
3 SECTION @ HANGAR DOOR
A-301
SCALE: 1/2" = 1'-0"



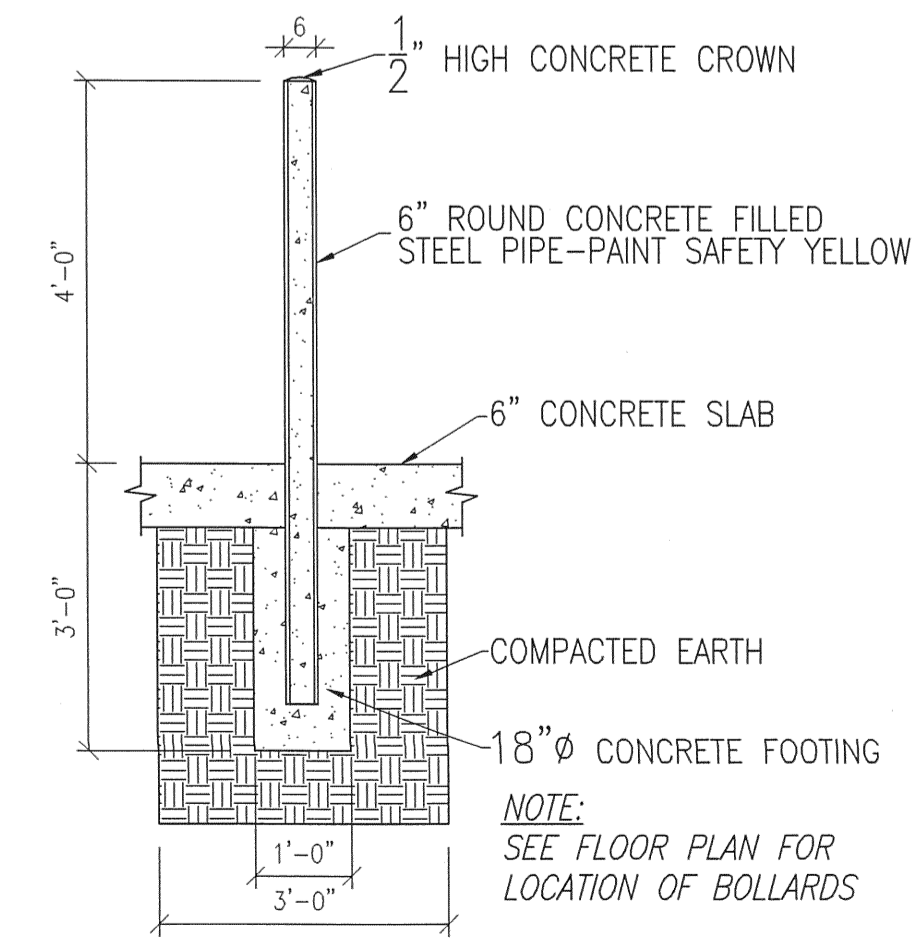
4 WALL @ OFFICE
A-301
SCALE: 1/2" = 1'-0"



5 TYP INTERIOR PARTITION WALL
A-301
SCALE: 1/2" = 1'-0"



TYP DRAFT CURTAIN
SCALE: 1" = 1'-0"



TYP PIPE BOLLARD
SCALE: 1/2" = 1'-0"

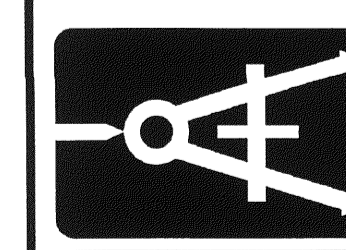
NOTE:
PRE-ENGINEERED BUILDING PLANS FOR STEEL BUILDING SYSTEM CONSTRUCTION. STEEL, SHEATHING AND FRAMING DETAILS SEE BUTLER BUILDING PLANS.

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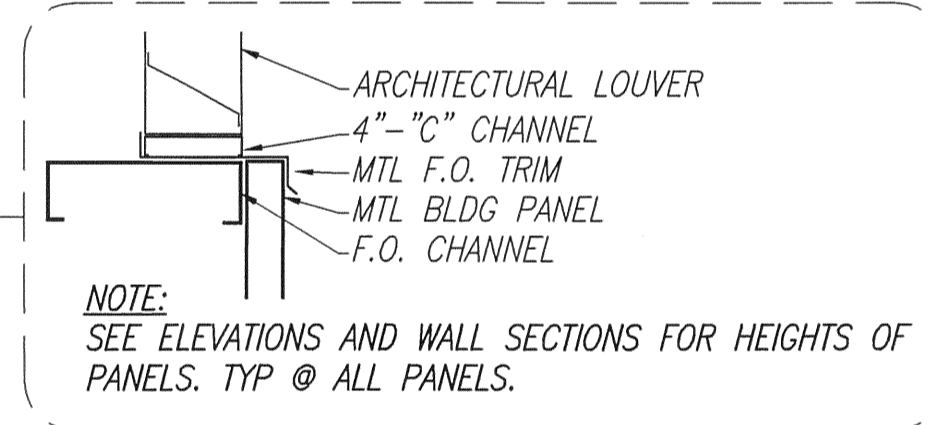
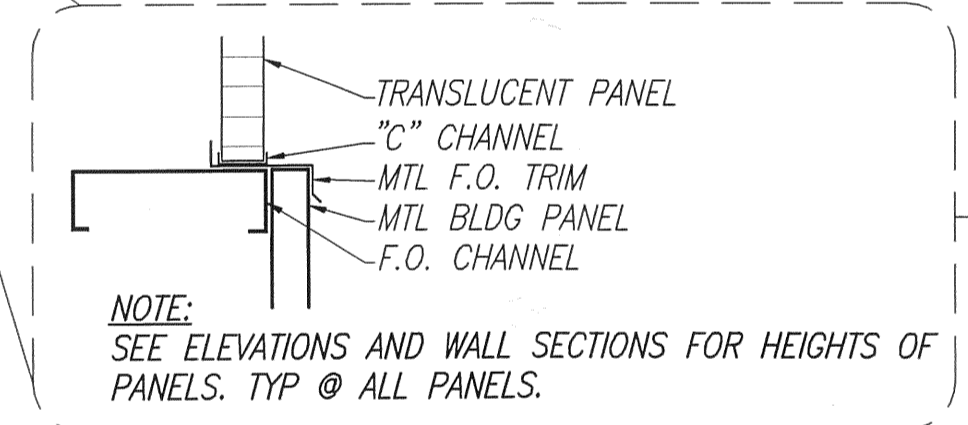
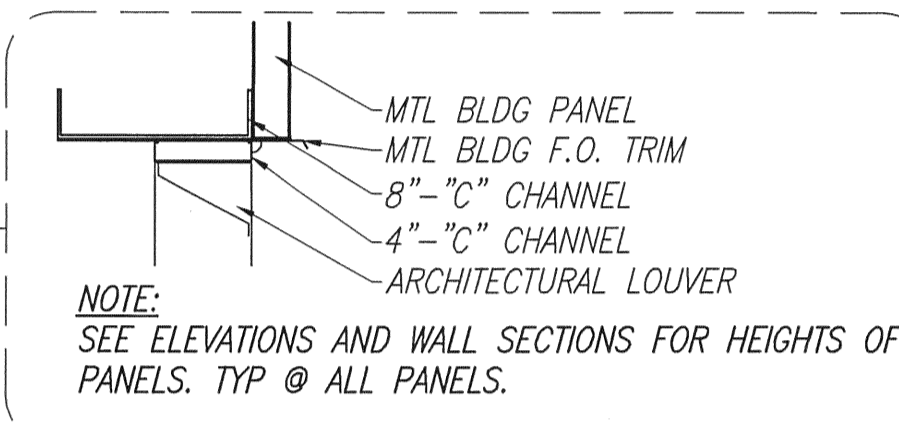
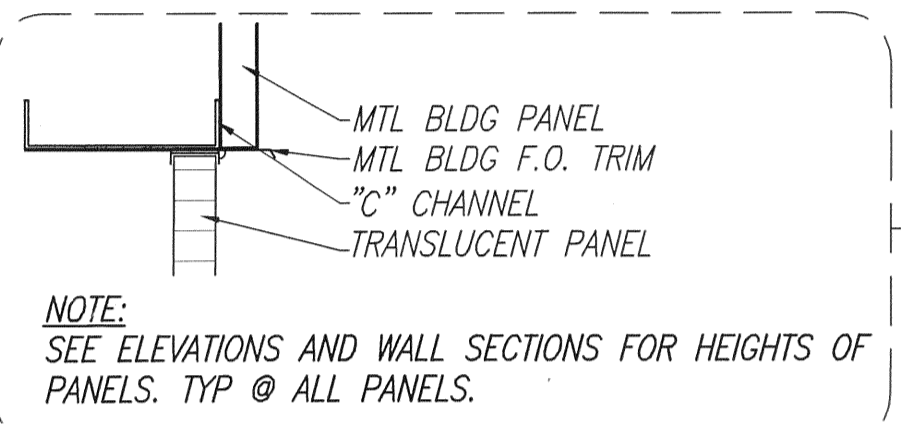
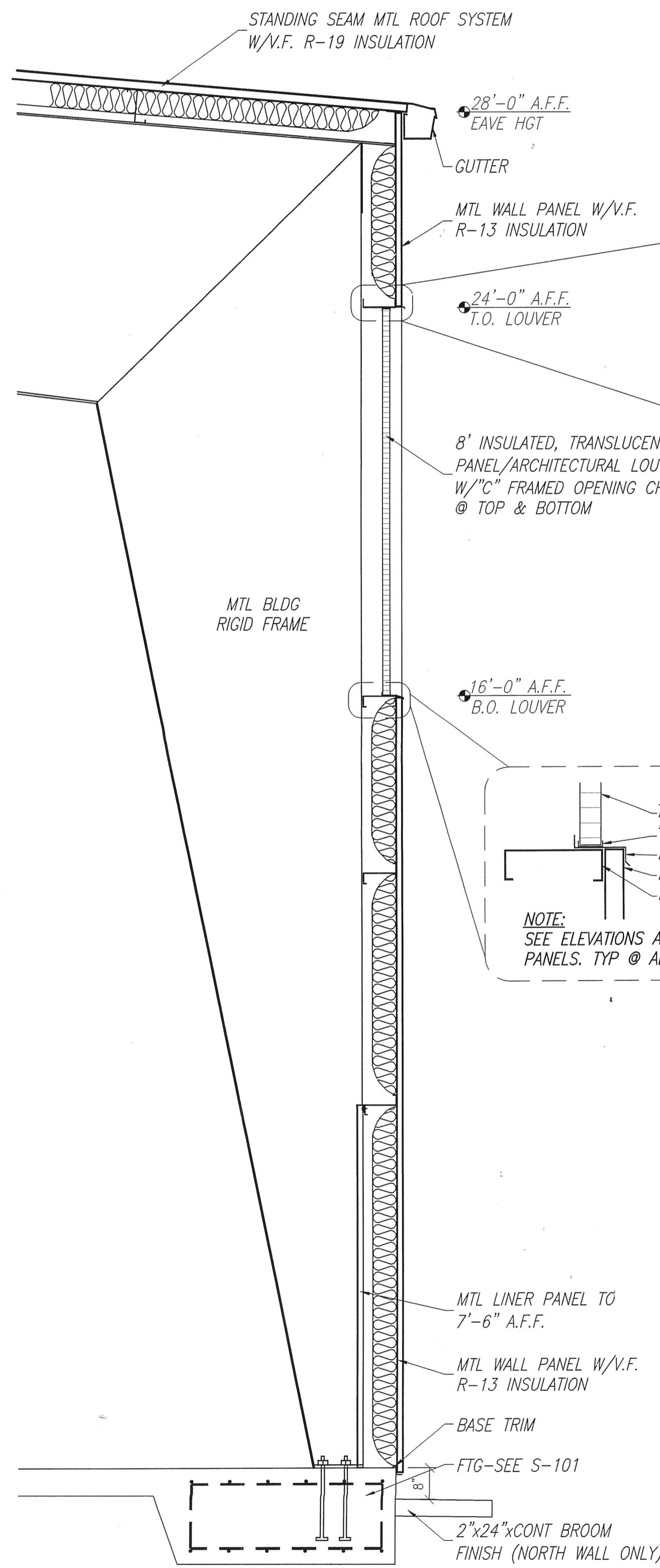
SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Gainesville, FL

NO.	DATE	REVISION
1	8/4/06	100% DESIGN SUBMITTAL
2	8/29/06	PERMIT/CONSTRUCTION SET
3	10/3/06	CONSTRUCTION SET
4	10/13/06	BLDG DEPT COMMENTS/MISC
5	4/25/07	AS-BUILT PLANS

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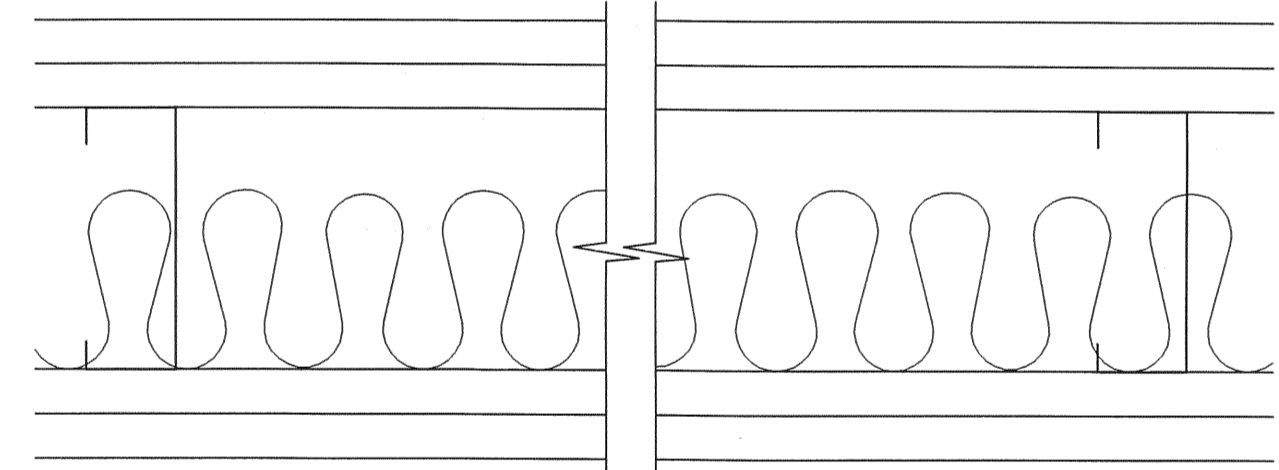


JOB NO.	DATE	SCALE	DATE	SCALE	DATE	SCALE
06-672	JEM	1/15/06	NOTED	1/15/06	NOTED	1/15/06



NOTES:
 1) PRE-ENGINEERED BUILDING PLANS FOR STEEL BUILDING SYSTEM CONSTRUCTION. STEEL, SHEATHING AND FRAMING DETAILS SEE BUTLER BUILDING PLANS.
 2) SEE ELEVATIONS FOR LOCATION AND ELEVATION OF TRANSLUCENT PANELS AND MECHANICAL LOUVERS.

FIRE RESISTANCE RATINGS-ANSI/UL 263
 DESIGN No. U438
 NON-BEARING WALL RATING - 2 HR.



- Floor and Ceiling Runners - (Not Shown) - Channel shaped, fabricated from min 25 MSO corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
- Steel Studs - Channel shaped, fabricated from min 25 MSO corrosion-protected steel, min width as indicated under item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
- Batts and Blankets* - (Required as indicated under item 4) - Mineral wool batts, friction filled between studs and runners. Min non thickness as indicated under item 4. See Batts and Blankets (BKM or BZJ) Categories for names of Classified composites.
- Batts and Blankets* - (Optional) - Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKM or BZJ) Categories for names of Classified composites.
- Gypsum Board* - Gypsum panels with beveled, square or tapered edges. For single layer systems gypsum panels applied vertically with joints centered over studs. For single layer systems (constructed with 1/2 in. thick board) gypsum panels applied vertically or horizontally with vertical joints centered over studs. For two layer systems gypsum panels to be applied vertically with joints centered over studs and staggered one stud cavity on opposite sides of studs. Outer layer of gypsum panels may be applied vertically or horizontally for systems constructed with 1/2 in. thick board. Vertical joints in adjacent layers staggered one stud cavity. For three and four layer systems inner layers to be applied vertically with joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers staggered one stud cavity. Outer layer may be applied vertically or horizontally. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Wallboard Protection on each Side of Wall Rating				
Hr	Min Stud Depth	No. of Layers	Thks of Panel	Thks of Insulation
1	3-5/8	1 layer	5/8 in. thick	Optional
1	2-1/2	1 layer	1/2 in. thick	2 in. thick
2	1-5/8	2 layers	1/2 in. thick	Optional
2	2-1/2	2 layers	5/8 in. thick	Optional
3	1-5/8	3 layers	1/2 in. thick	Optional
3	1-5/8	3 layers	5/8 in. thick	Optional
4	1-5/8	4 layers	1/2 in. thick	Optional
4	1-5/8	4 layers	5/8 in. thick	Optional

- NATIONAL GYPSUM CO - 1/2 in. thick Type FSW-G, FSK-G, FSK-C, FSK-C, FSK-C, 5/8 in. thick Type FSW, FSK, FSK-3, FSK-5, FSK-6, FSK-G, FSK-C, FSK-C or FSK-C.
- Fasteners - (Not shown)-Types S or S-12 steel screws used to attach panels to studs (item 2). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels spaced 8 in. OC along edges of board and 12 in. OC in the field of board. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.
 - Joint Tape and Compound - Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, min 2 in. wide, embedded in first layer of compound over all joints of outer panels.
 - Furring Channels - (Optional, not shown, for single or double layer systems) - Resilient furring channels fabricated from min 25 MSO corrosion-protected steel, spaced a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws.
 - Siding, Brick or Stucco - (Optional, not shown) - Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

*Bearing the UL Classification Mark

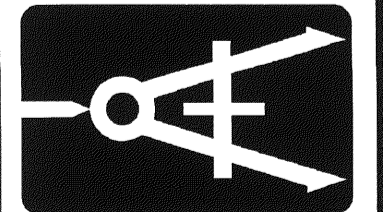
6 HANGAR ENDWALL
 A-302 SCALE: 1/2" = 1'-0"

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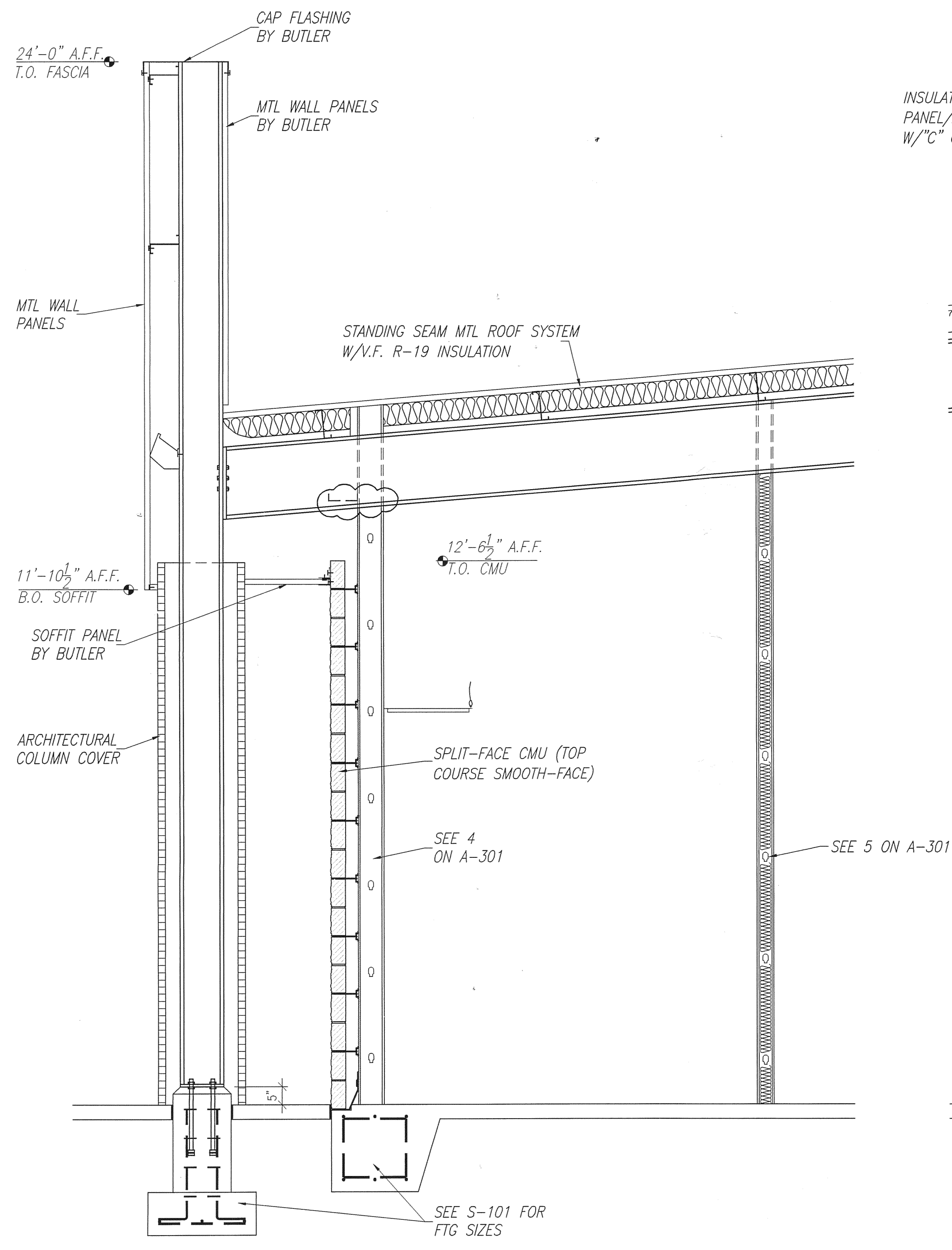
SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
 ARCH SECTIONS CONSTRUCTION PLANS

NO.	DATE	REVISION
1	8/4/06	100% DESIGN SUBMITTAL
2	8/28/06	PERMIT/CONSTRUCTION SET
3	10/2/06	CONSTRUCTION SET
4	4/25/07	AS-BUILT PLANS

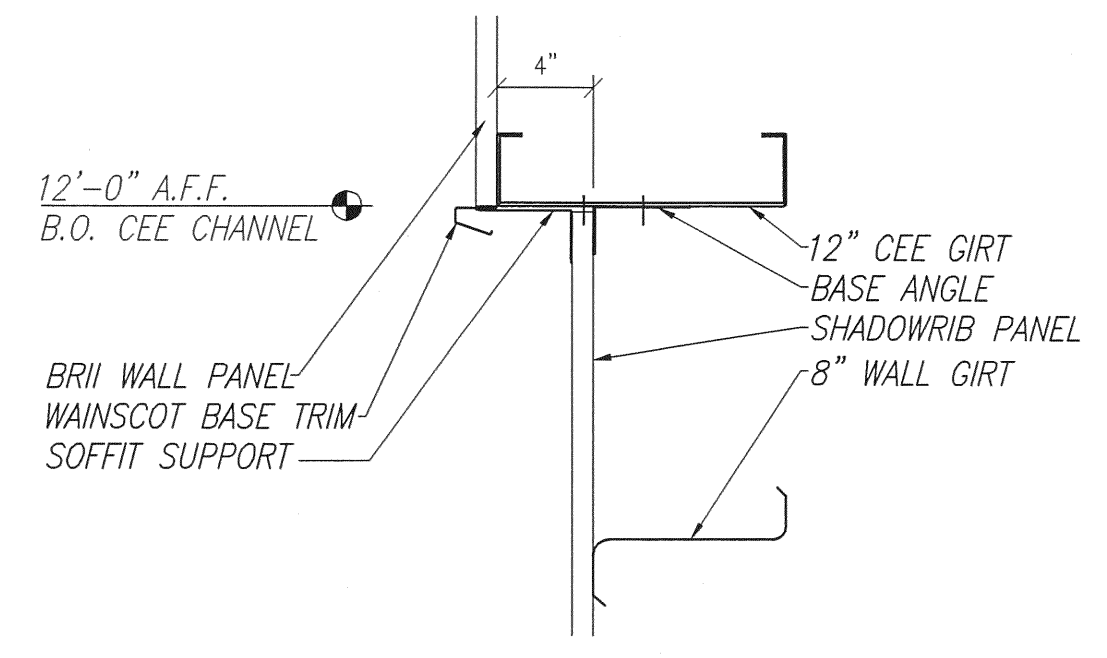
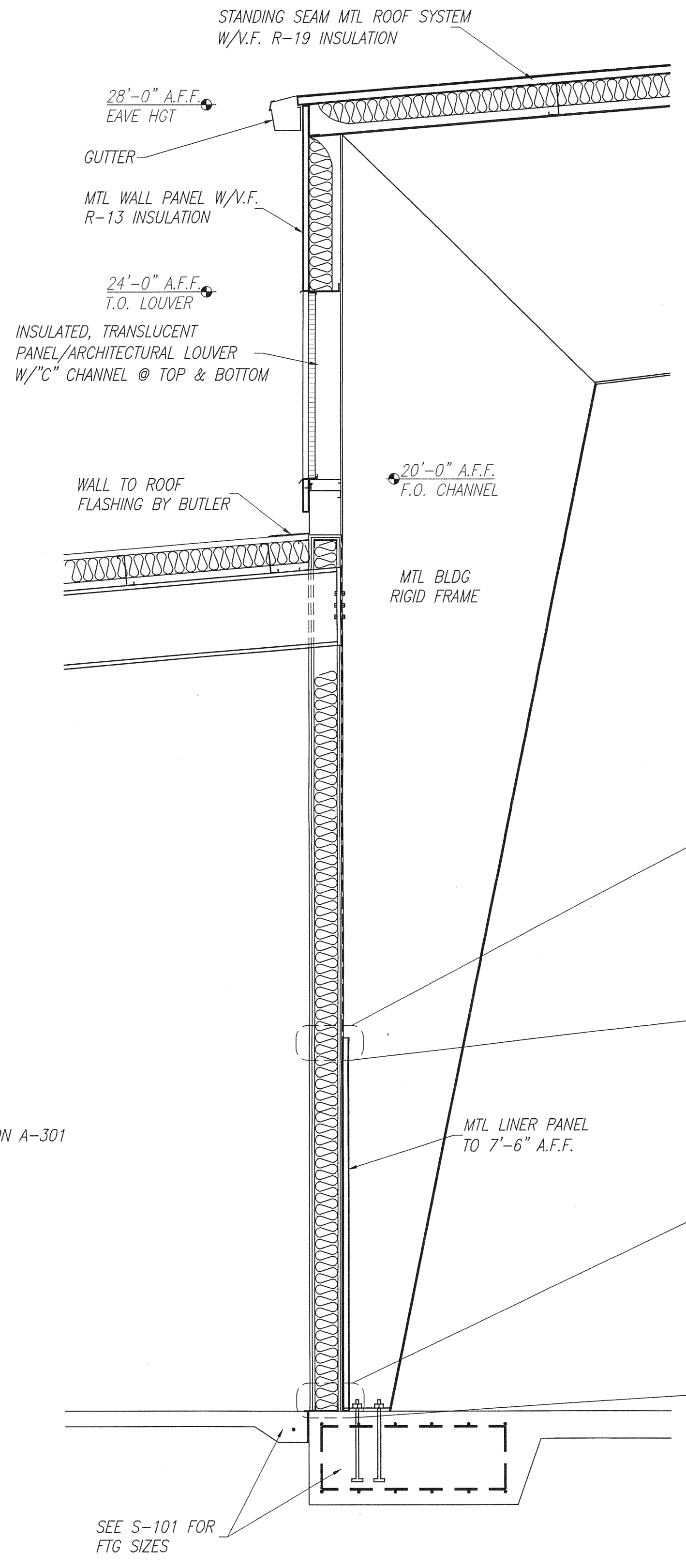
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JOB NO: 06-622
 DRAWN: JEM
 DATE: 9/15/06
 SCALE: NOTED
 SHEET: A-302

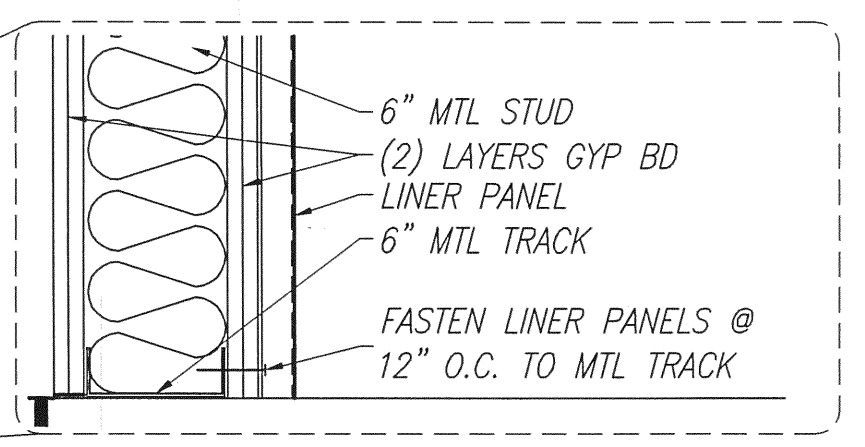
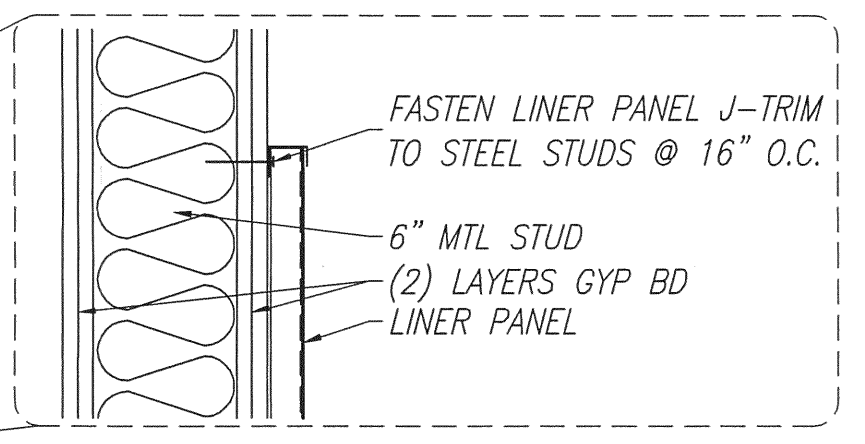


7 OFFICE CROSS SECTION
A-303 SCALE: 1/2" = 1'-0"



8 SECTION @ MAINT AREA BETWEEN COL E & L
A-303 SCALE: 1 1/2" = 1'-0"

NOTE:
PRE-ENGINEERED BUILDING PLANS FOR STEEL BUILDING SYSTEM CONSTRUCTION. STEEL, SHEATHING AND FRAMING DETAILS SEE BUTLER BUILDING PLANS.



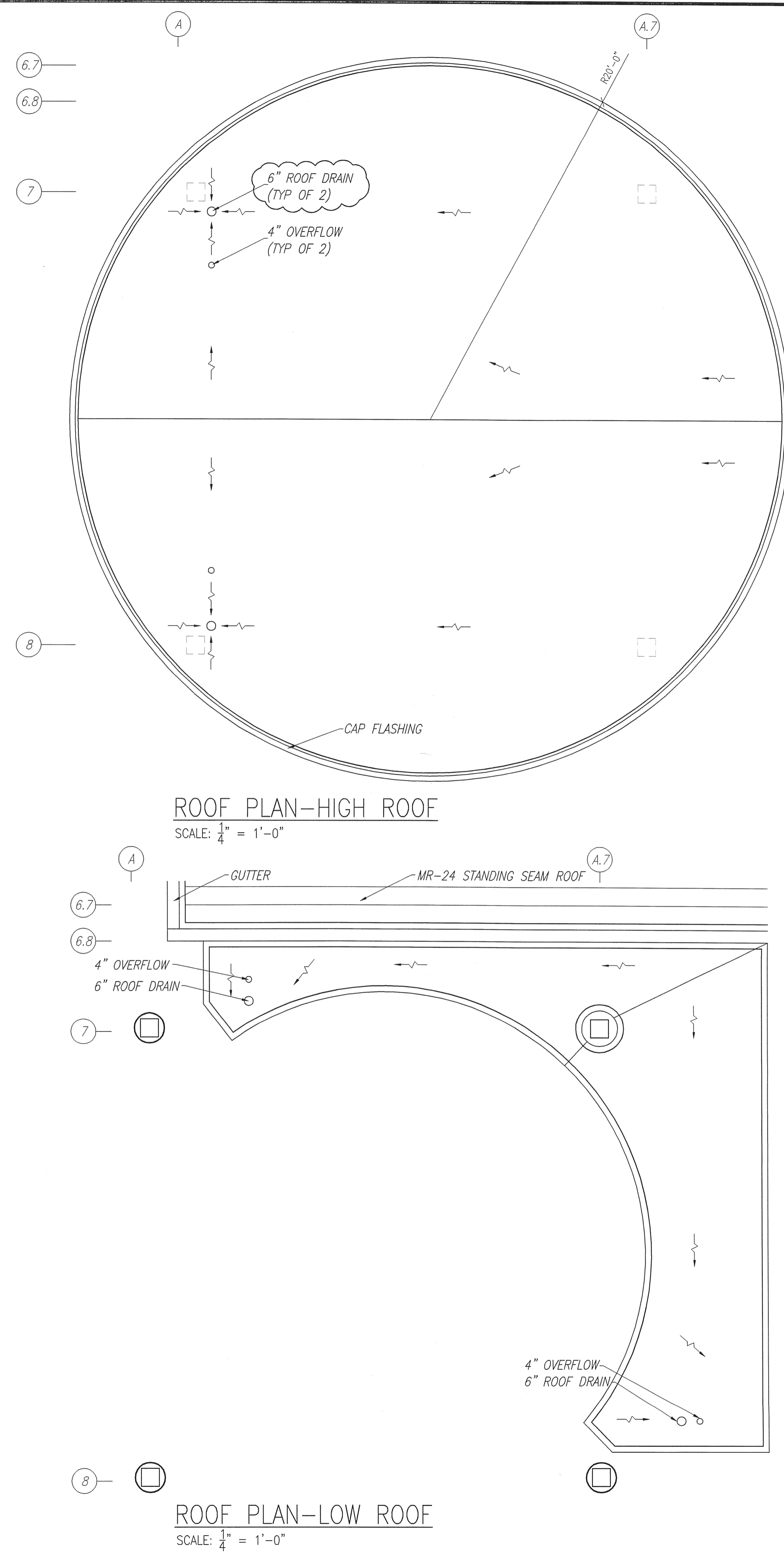
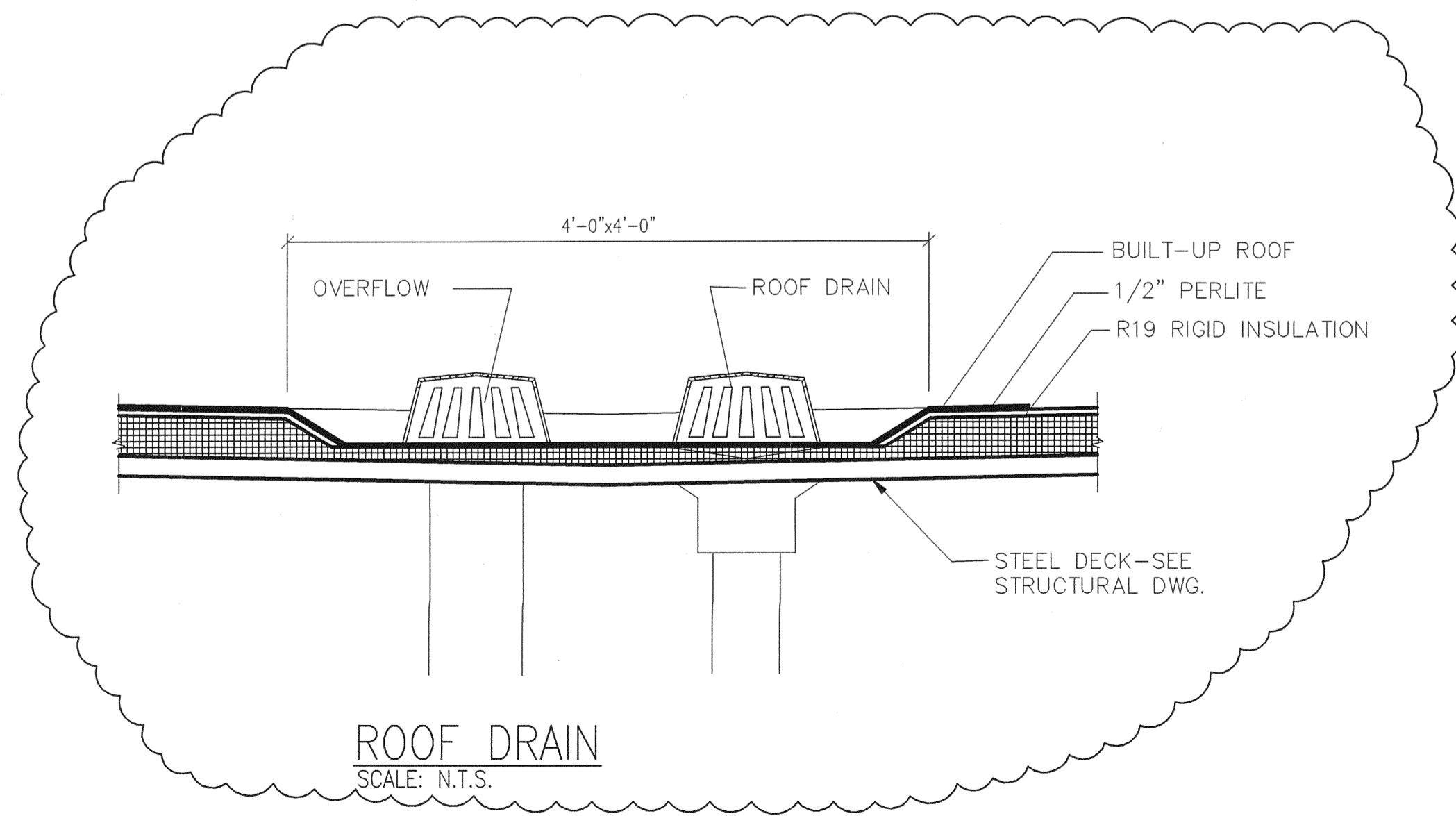
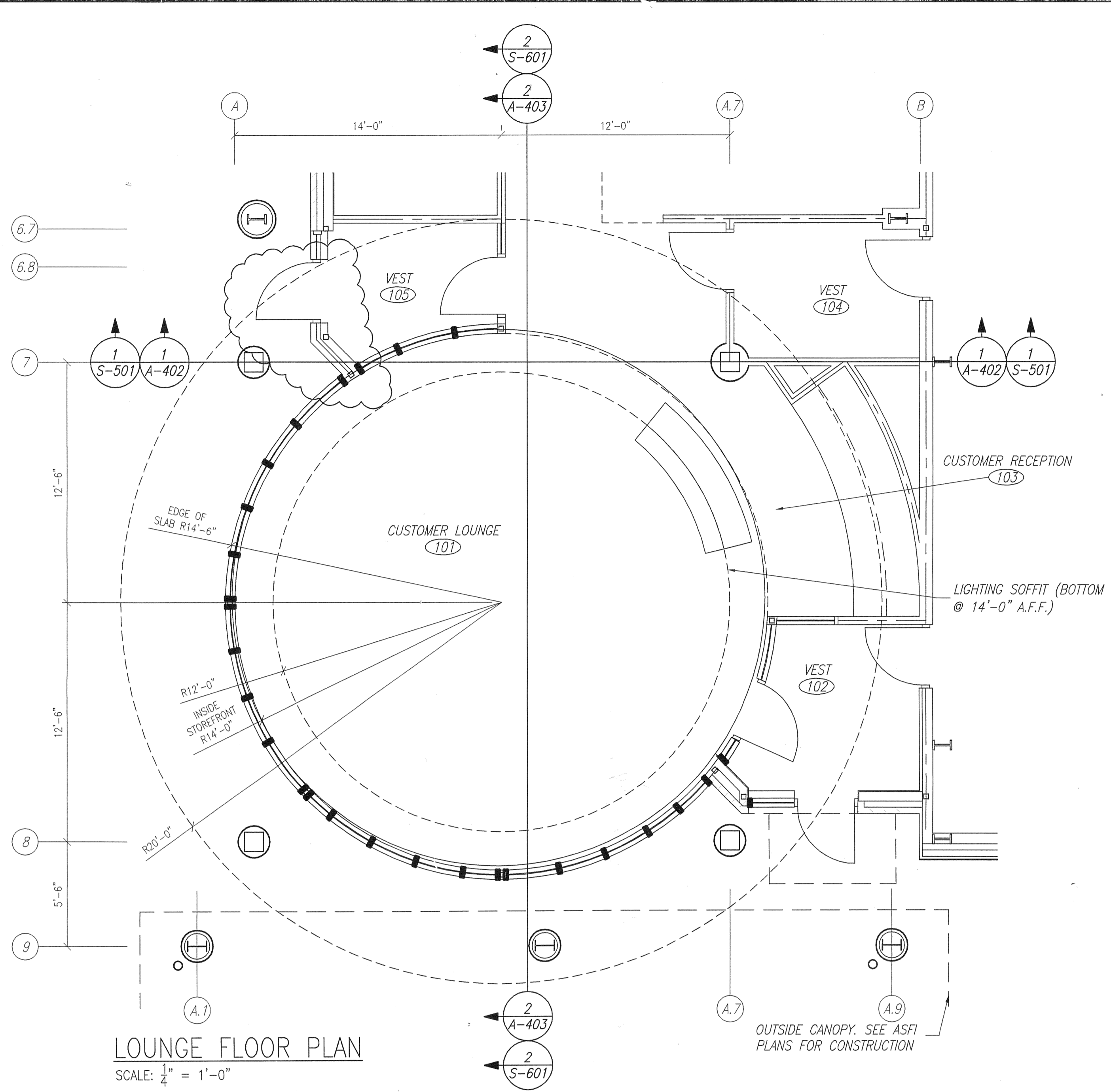
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FLORIDA REGISTRATION: AR 18925

SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
CONSTRUCTION PLANS

NO.	DATE	REVISION
5	4/25/07	AS-BUILT PLANS
4	10/13/06	BLDG DEPT COMMENTS/MISC
3	10/3/06	CONSTRUCTION SET
2	8/28/06	PERMIT/CONSTRUCTION SET
1	8/4/06	100% DESIGN SUBMITTAL

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JOB NO.	06-622
DRAWN	JEM
DATE	5/15/06
SCALE	NOTED
SHT.	A-303



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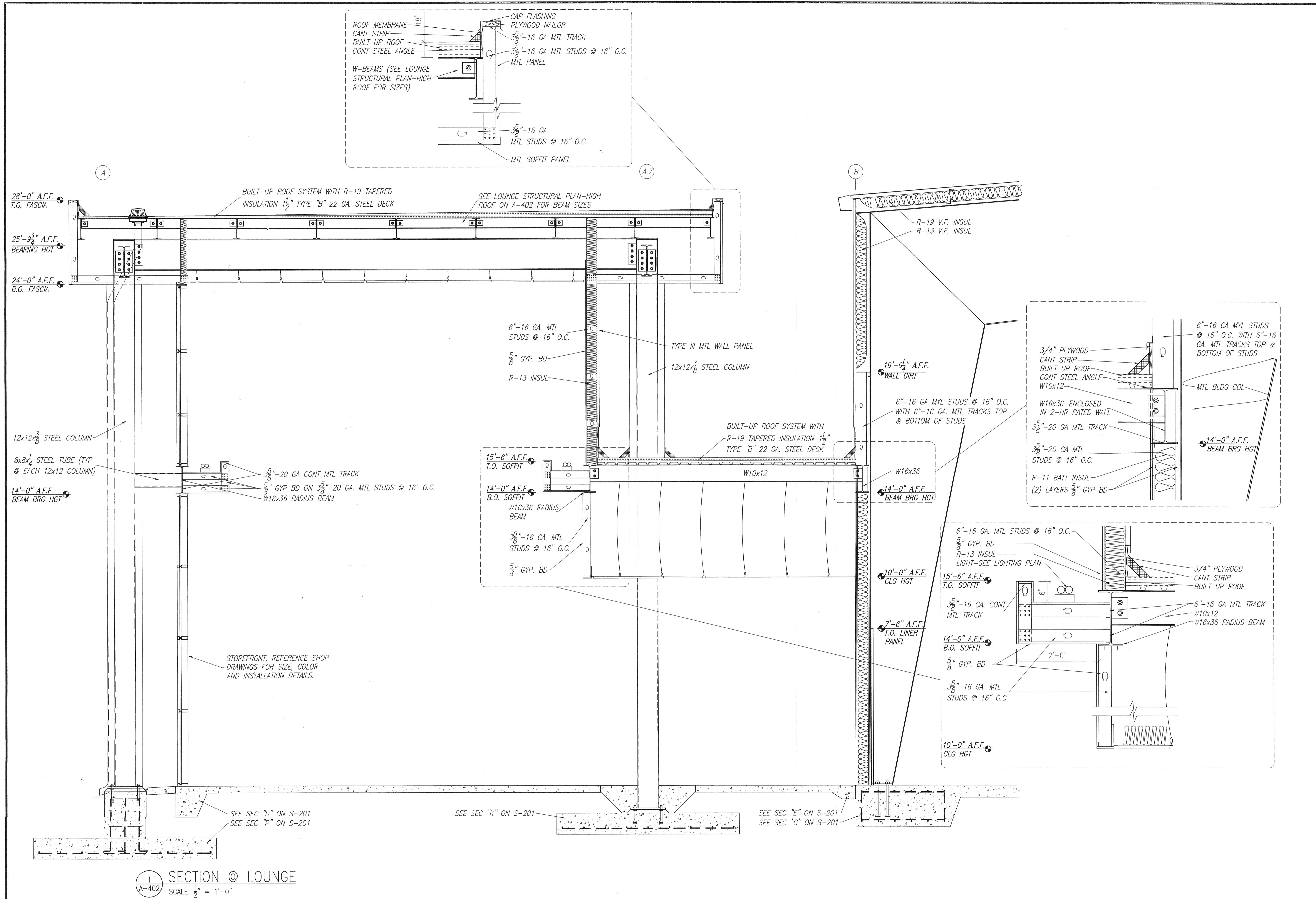
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SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
Gainesville, FL

LOUNGE PLANS CONSTRUCTION PLANS

NO.	DATE	REVISION
1	8/4/06	100% DESIGN SUBMITTAL
2	8/28/06	PERMIT/CONSTRUCTION SET
3	10/3/06	CONSTRUCTION SET
4	10/13/06	BUILD DEPT COMMENTS/MISC
5	4/25/07	AS-BUILT PLANS

JOB NO. C6-622
DRAWN JEM
DATE 5/15/06
SCALE NOTED
SHEET A-401
Doug Wilcox, Scherer Construction 4/4/00 11:27 AM ARCH_SECTION_SHEET.dwg



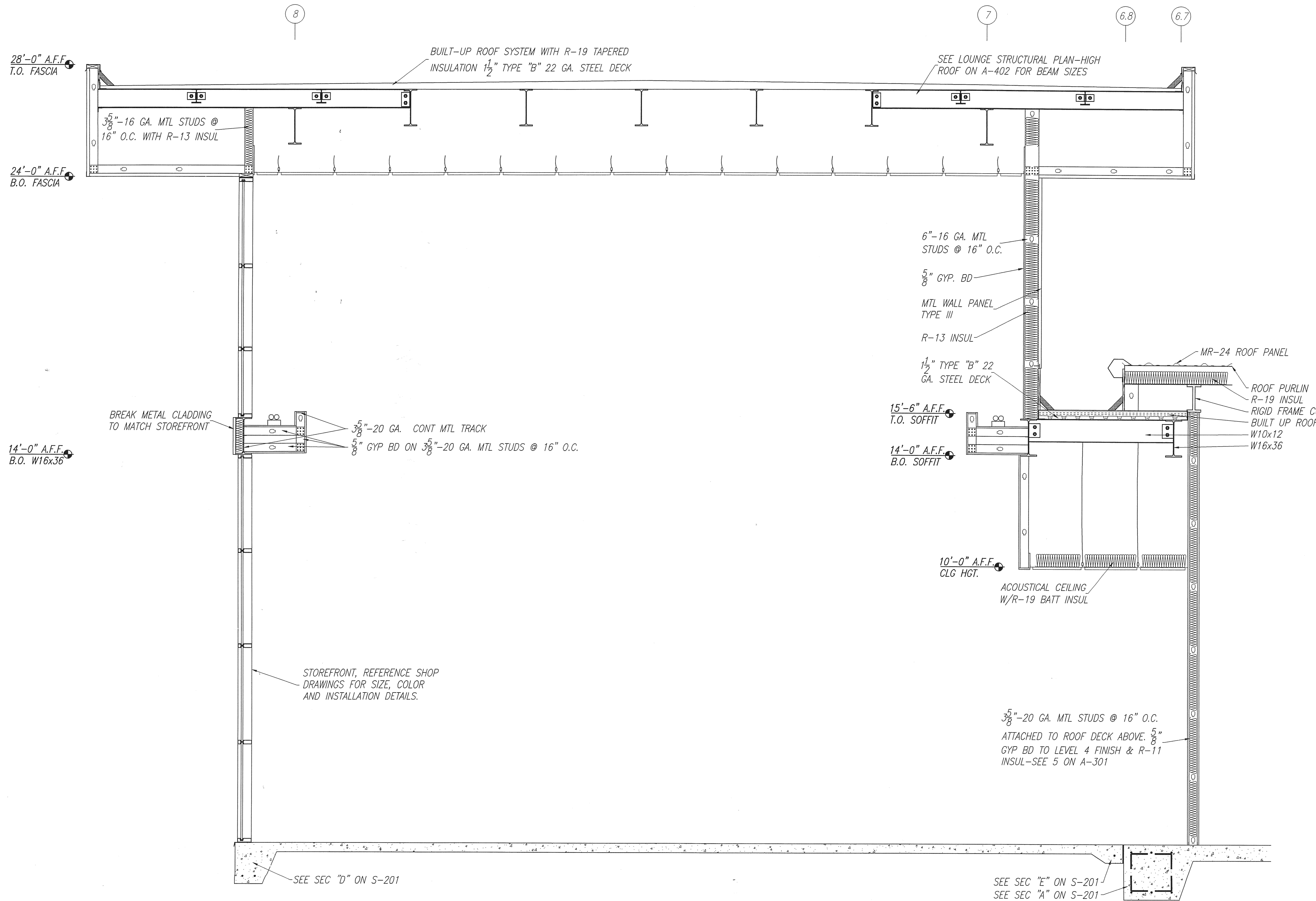
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 FLORIDA REGISTRATION #119925

SMALL AIRCRAFT TRANSPORTATION
 SYSTEM (SATS)
 MAINTENANCE FACILITY
 (CONSTRUCTION SET)
 LOUNGE DETAILS CONSTRUCTION PLANS

NO.	DATE	REVISION
1	8/4/06	100% DESIGN SUBMITTAL
2	8/28/06	PERMIT CONSTRUCTION SET
3	10/13/06	CONSTRUCTION SET
4	4/29/07	AS-BUILT PLANS

SCHERER
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NO.	DATE	REVISION
1	8/4/06	100% DESIGN SUBMITTAL
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3	10/13/06	CONSTRUCTION SET
4	4/29/07	AS-BUILT PLANS



SECTION @ LOUNGE
SCALE: 1/2" = 1'-0"

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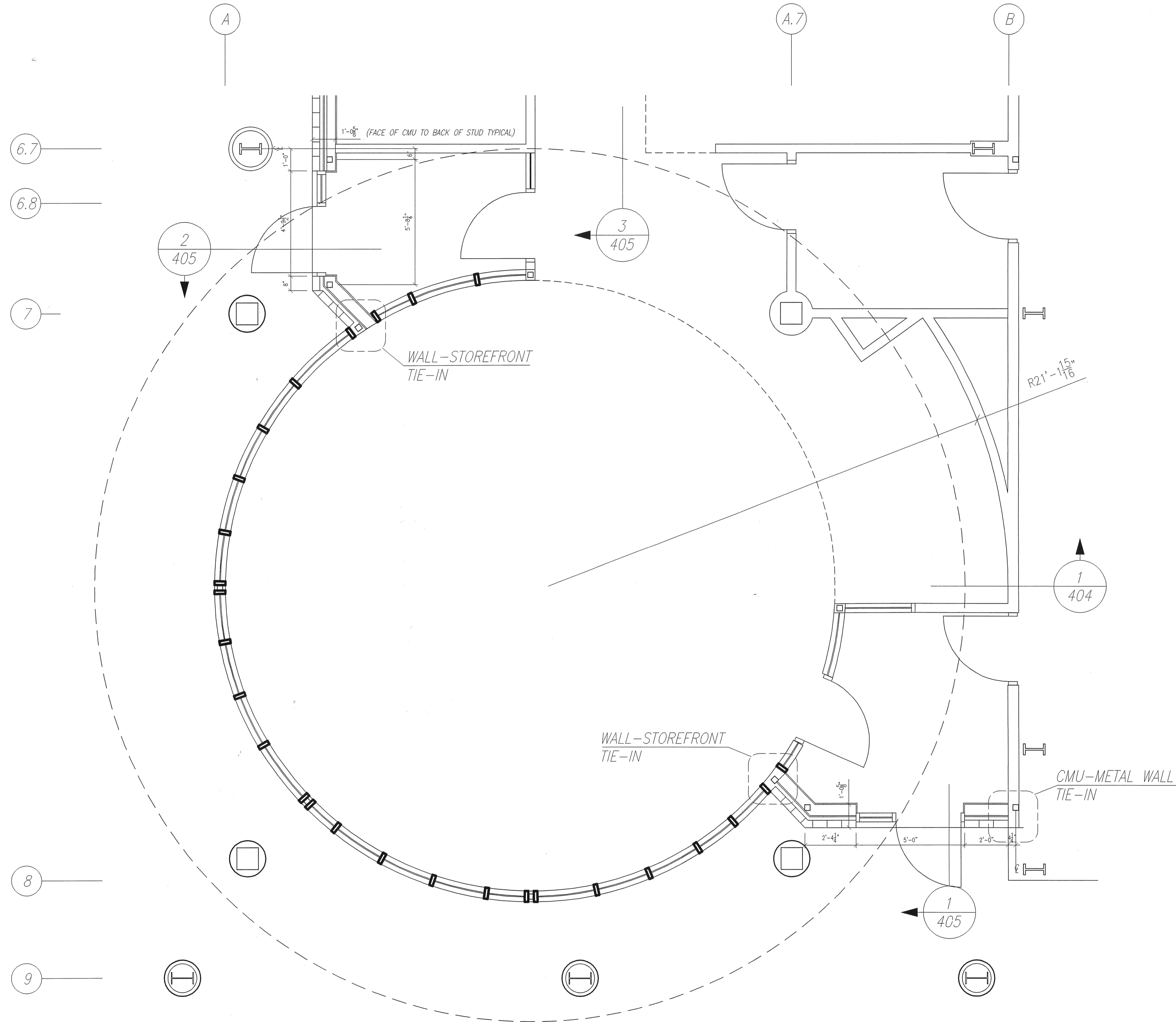
SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Gainesville, FL

NO.	DATE	REVISION
1	8/24/06	100% DESIGN SUBMITTAL
2	8/28/06	PERMIT/CONSTRUCTION SET
3	10/3/06	CONSTRUCTION SET
4	4/25/07	AS-BUILT PLANS

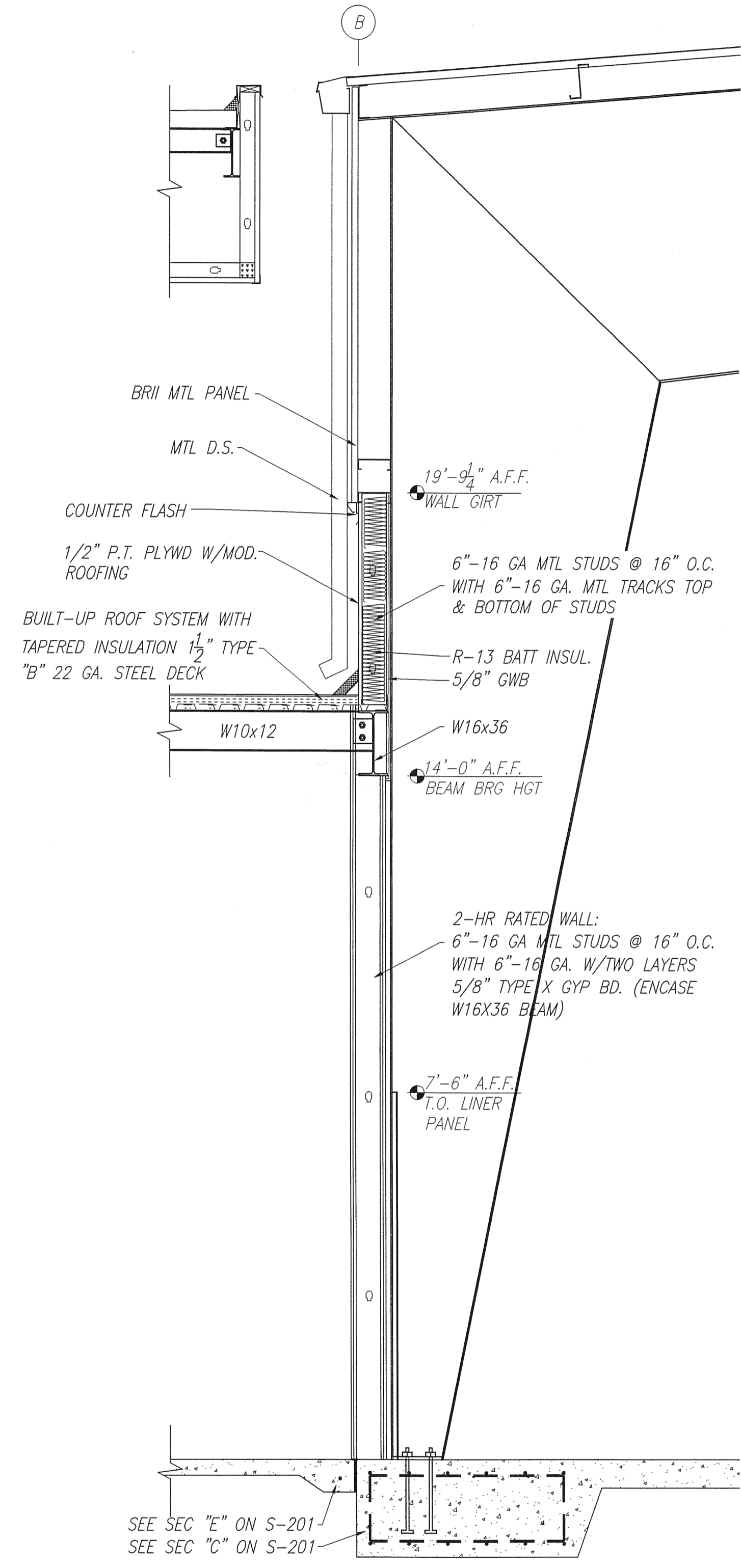
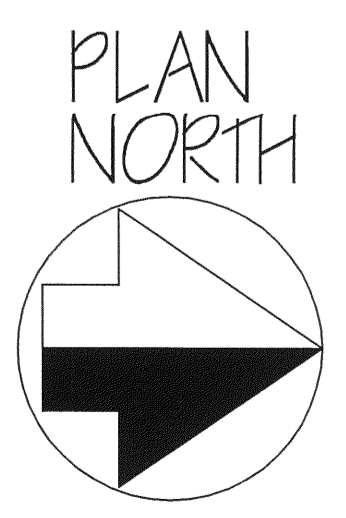
SCHERER
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JOB NO.	C06-672
DRAWN	JFM
DATE	5/15/06
SCALE	NOTED
SHEET	A-403

ARCH_SECTION_SHEET.dwg 4/4/00 11:27 AM



PLAN
SCALE: 3/8" = 1'-0"



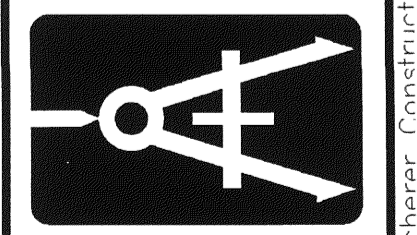
SECTION 1
SCALE: 1/2" = 1'-0"

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E-MAIL wendellrylee@earthlink.net
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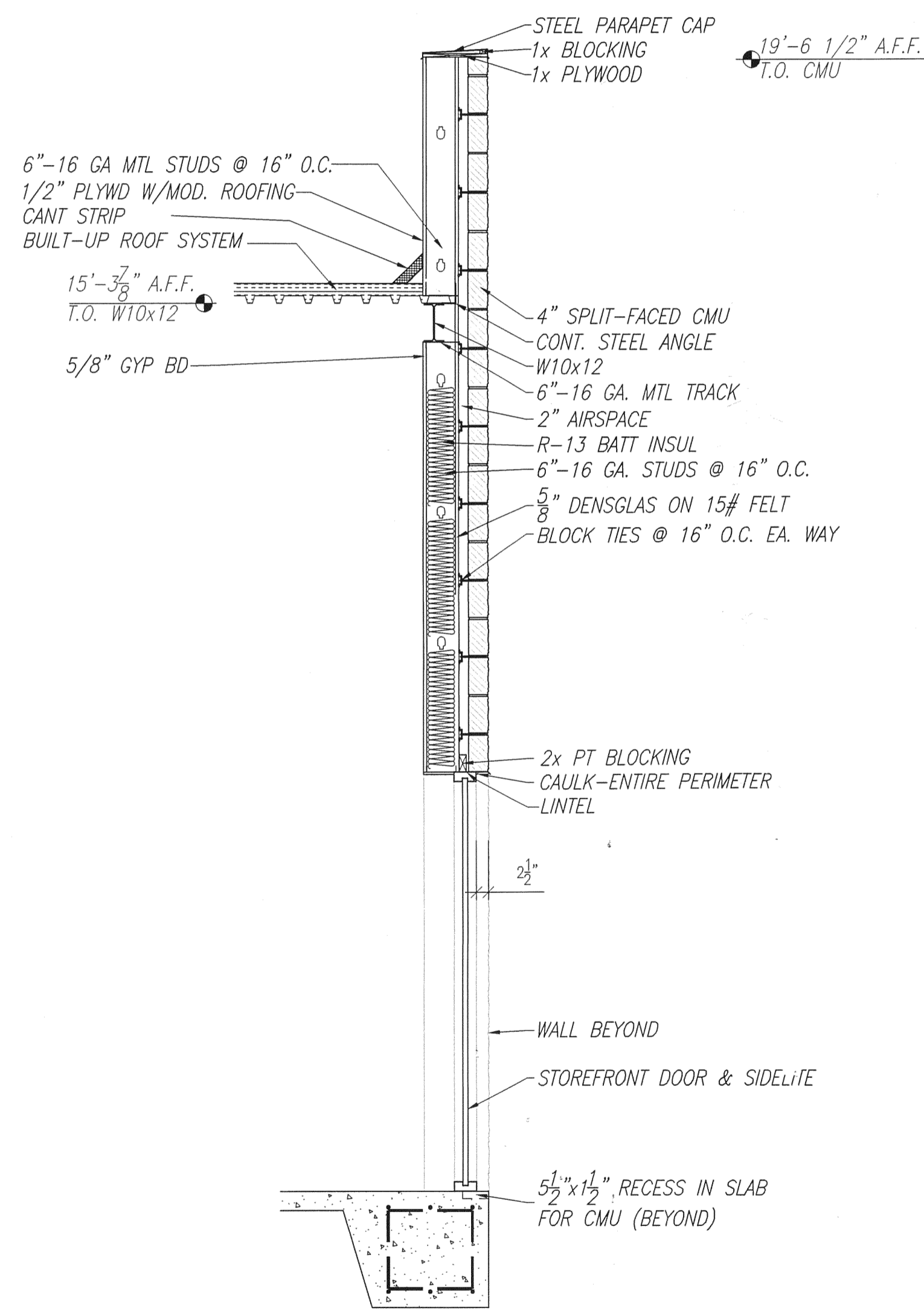
SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Gainesville, FL

NO.	DATE	REVISION
1	4/25/07	AS-BUILT PLANS

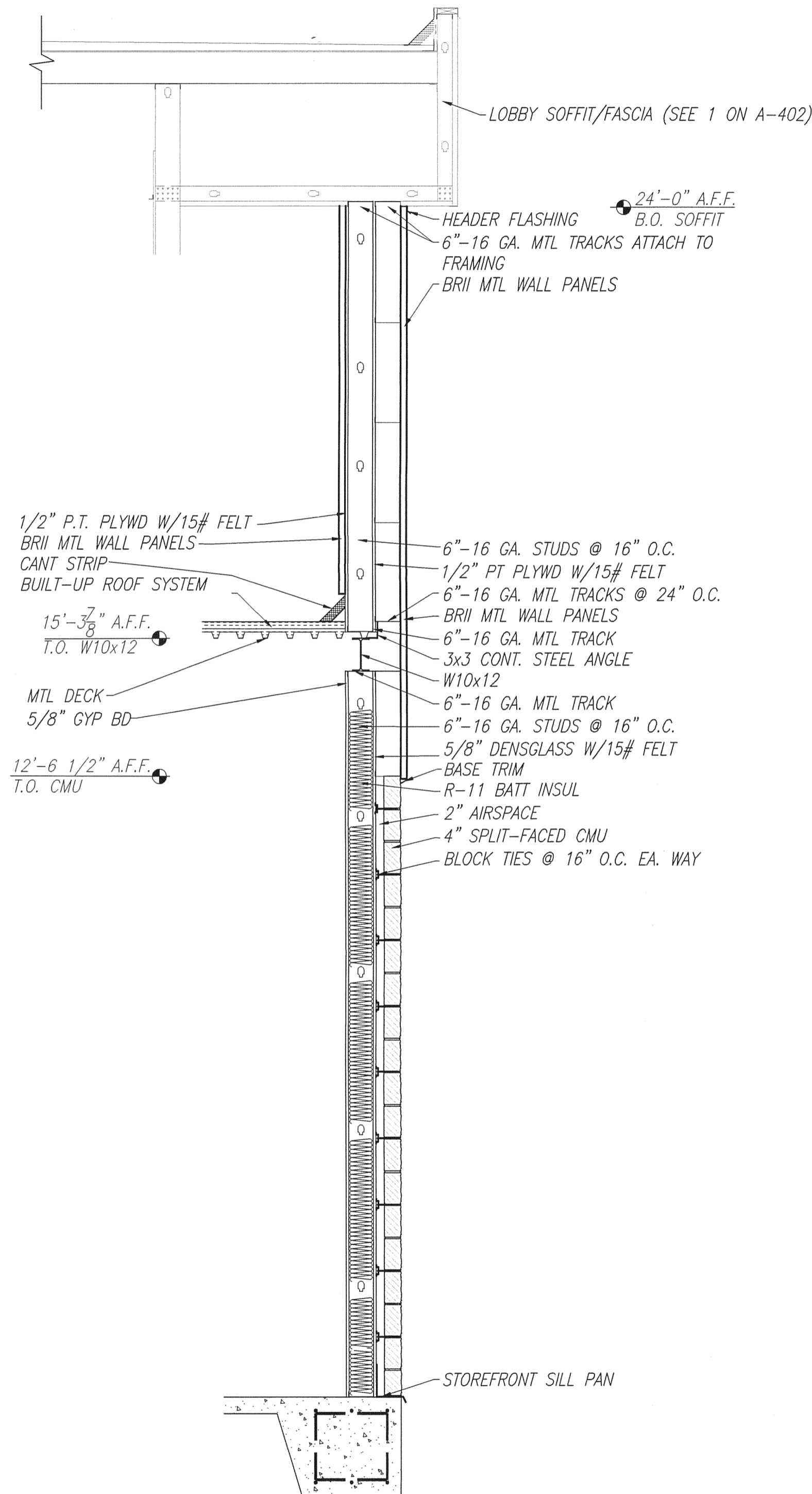
SCHERER
CONSTRUCTION AND ENGINEERING, LLC.
GAINESVILLE, FL (352) 371-1417
ST. PETERSBURG / ORLANDO / MACON
(800) 741-3188



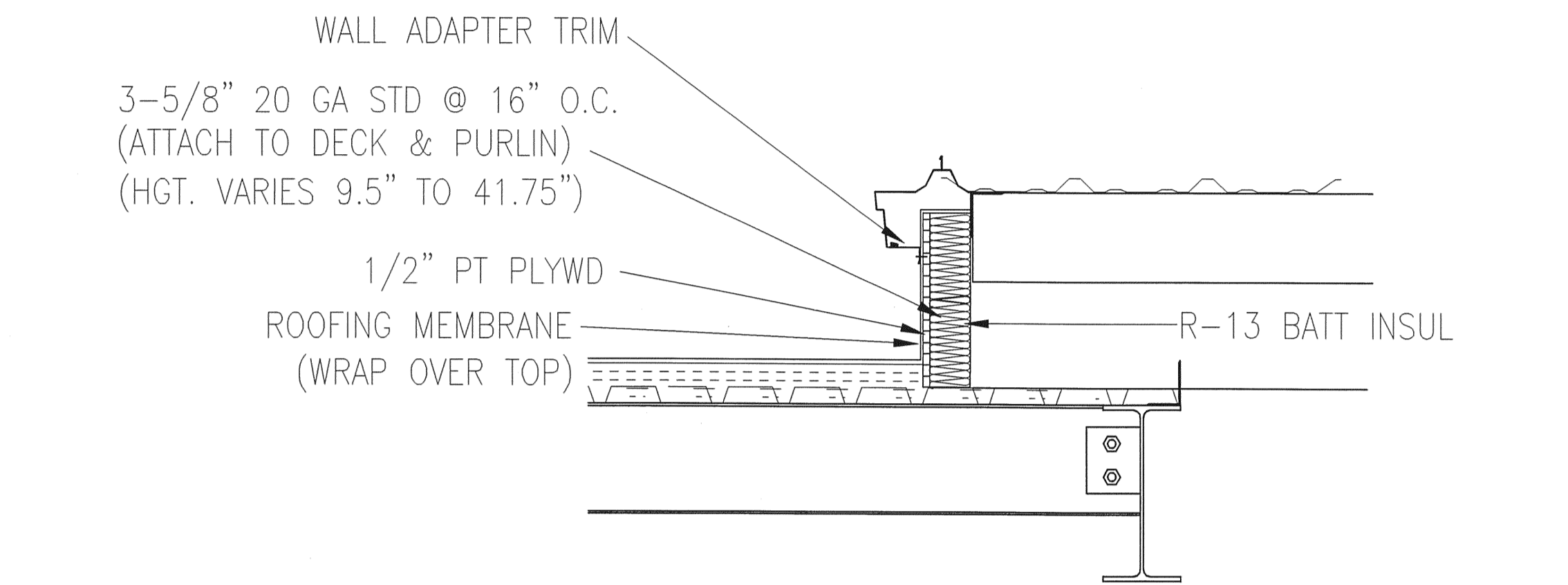
JOB NO.	06-622
DRAWN	JEM
DATE	12/9/06
SCALE	NOTED
SHT.	A-404



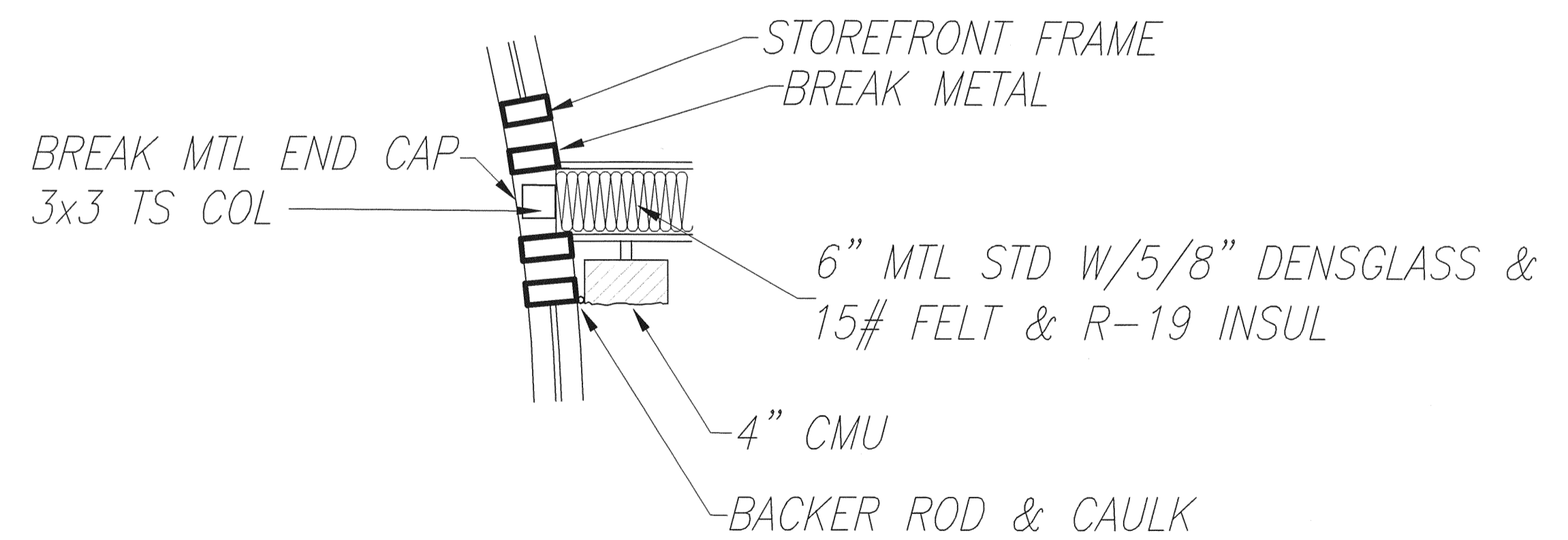
SECTION 1
SCALE: 1/2" = 1'-0"



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



SECTION 3
SCALE: 1" = 1'-0"



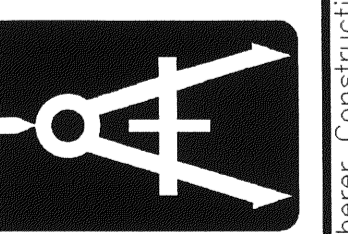
WALL-STOREFRONT TIE-IN
SCALE: 1" = 1'-0"

L. WENDELL RYLEE AIA
ARCHITECT
262 14TH CIRCLE NORTH
ST. PETERSBURG, FLORIDA 33718
E-Mail: lr@rylee.com
FLORIDA REGISTRATION #1 8926

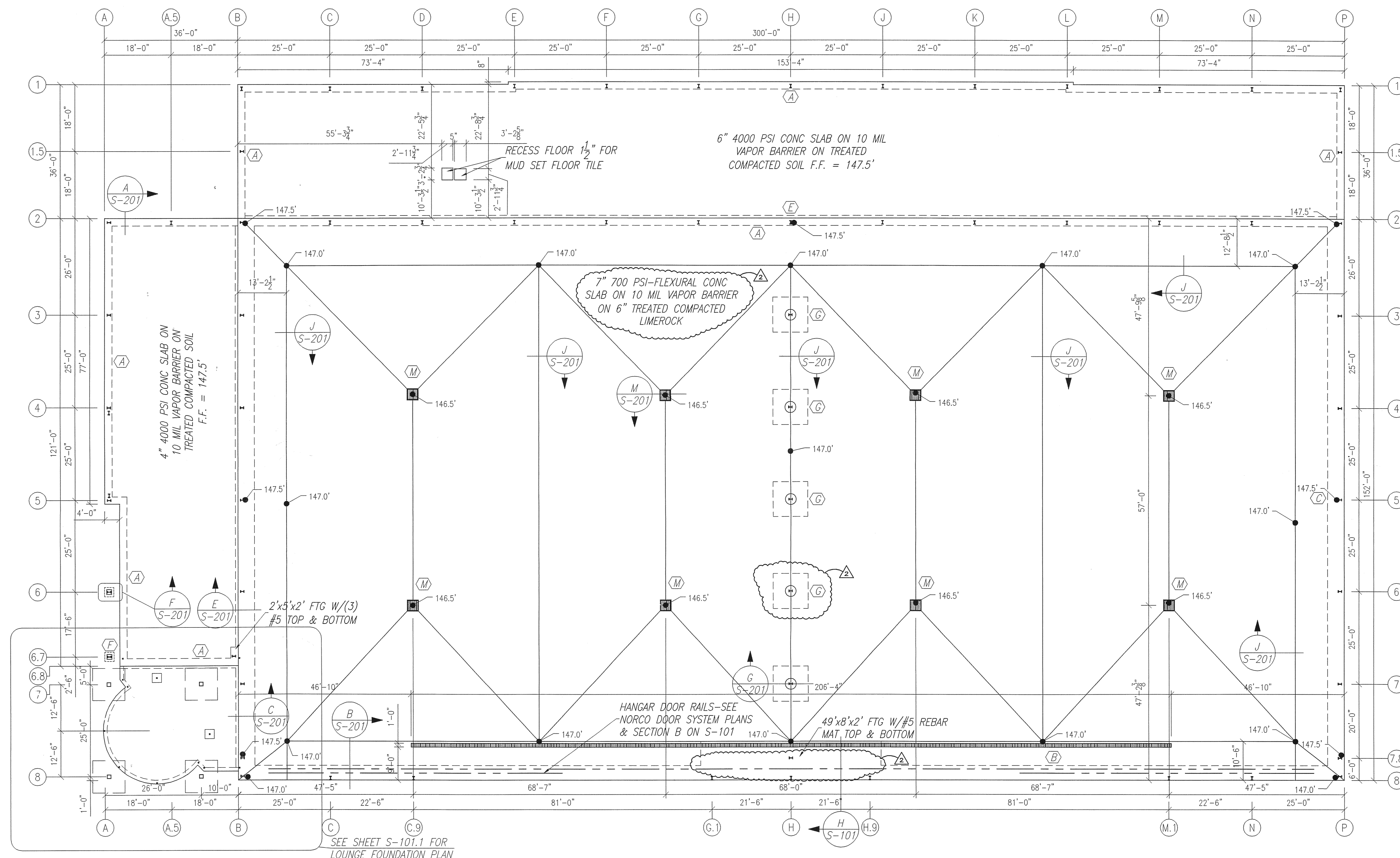
SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Gainesville, FL

NO.	DATE	REVISION
1	4/25/07	AS-BUILT PLANS

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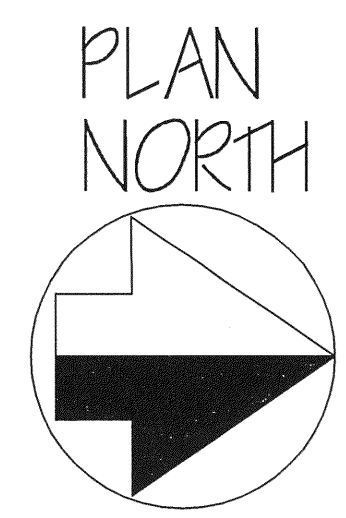


JOB NO.	C6-622
DRAWN	JEM
DATE	12/5/06
SCALE	NOTED
SHT.	A-405



FOUNDATION PLAN—MAIN HANGAR & OFFICE
 SCALE: 1/16" = 1'-0"

- FOUNDATION NOTES:**
- 1) SAWCUT SLAB PER LAYOUT SHEET S301
 - 2) HAIRPIN @ EACH COLUMN—SEE TYP HAIRPIN SHEET S201
 - 3) REFER TO FABRIC CANOPY DRAWINGS BY ASFI FOR CANOPY FOOTING CONSTRUCTION

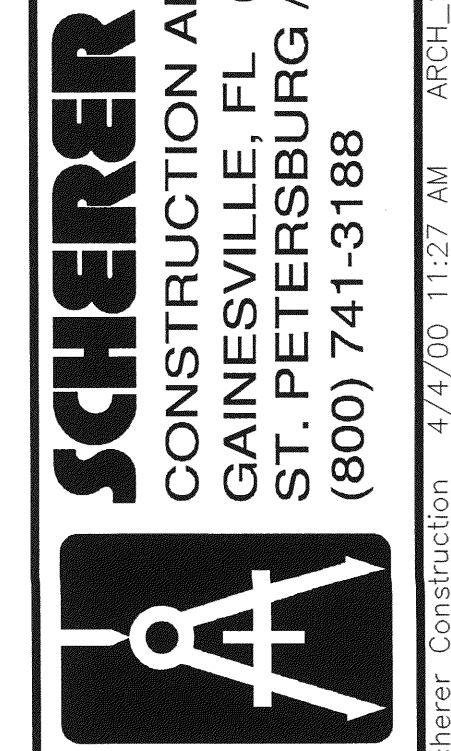


SPUTO AND LAMBERT ENGINEERING, LLC
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 E-MAIL: sputo@sputoandlambert.com
 CA 6855
 Florida PE 98142

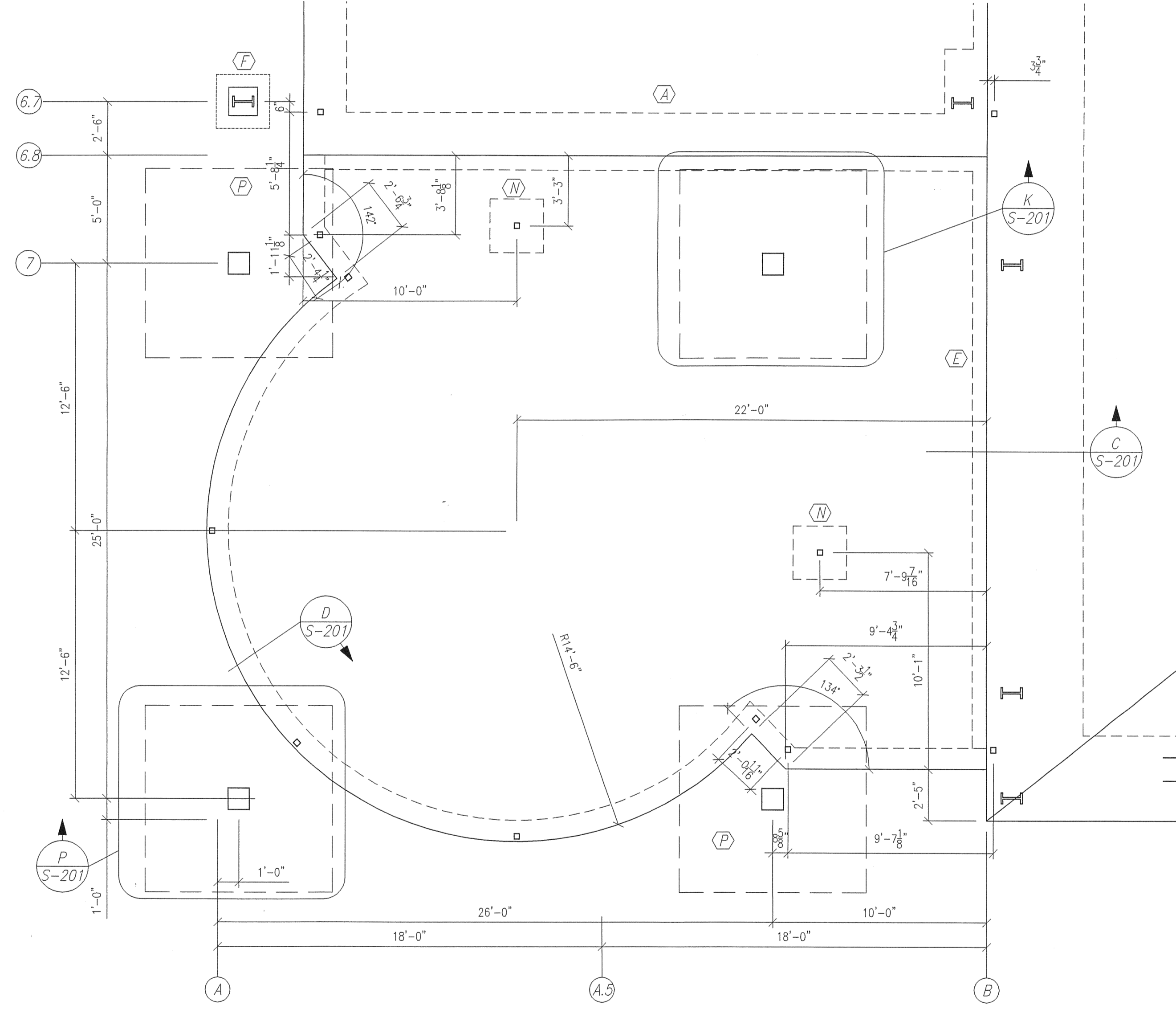
SMALL AIRCRAFT TRANSPORTATION
 SYSTEM (SATS)
 MAINTENANCE FACILITY
 Gainesville, FL

NO.	DATE	REVISION
5	4/29/07	AS-BUILT PLANS
4	10/3/06	CONSTRUCTION SET
3	8/29/06	PERMIT/CONSTRUCTION SET
2	8/4/06	100% DESIGN SUBMITTAL
1	6/8/06	ADD SECTION MARK L

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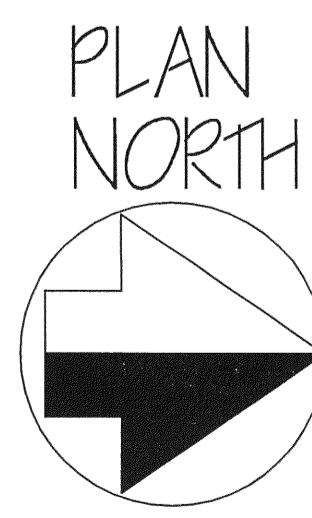


JOB NO.	06-622
DRAWN	JEM
DATE	5/19/06
SCALE	NOTED
SHT.	5-101



FOUNDATION PLAN-LOUNGE
SCALE: $\frac{1}{4}'' = 1'-0''$

- FOUNDATION NOTES:**
- 1) SAWCUT SLAB PER LAYOUT SHEET S301
 - 2) HAIRPIN @ EACH COLUMN-SEE TYP HAIRPIN SHEET S201
 - 3) REFER TO FABRIC CANOPY DRAWINGS BY ASFI FOR CANOPY FOOTING CONSTRUCTION



JOB NO. 06-622
 DRAWN JEM
 DATE 5/15/06
 SCALE NOTE?
 SHIT. 5-101.1

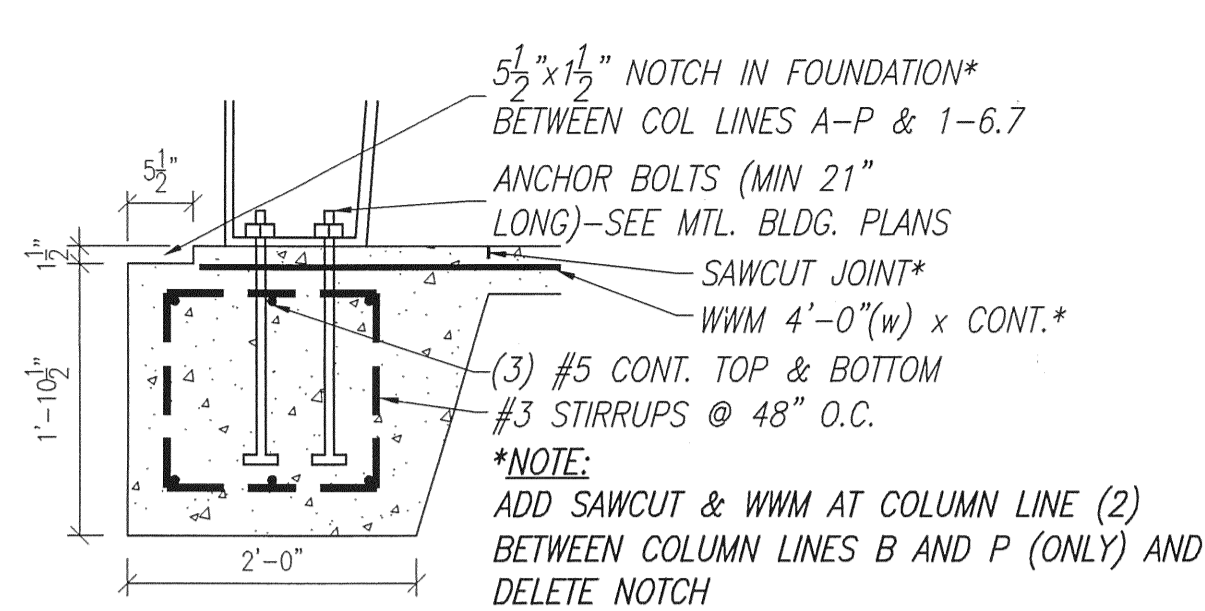
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 (800) 741-3188

NO.	DATE	REVISION
5	4/25/07	AS-BUILT PLANS
4	10/3/06	CONSTRUCTION SET
3	8/28/06	PERMIT/CONSTRUCTION SET
2	8/4/06	100% DESIGN SUBMITTAL
1	6/8/06	ADD SECTION MARK L

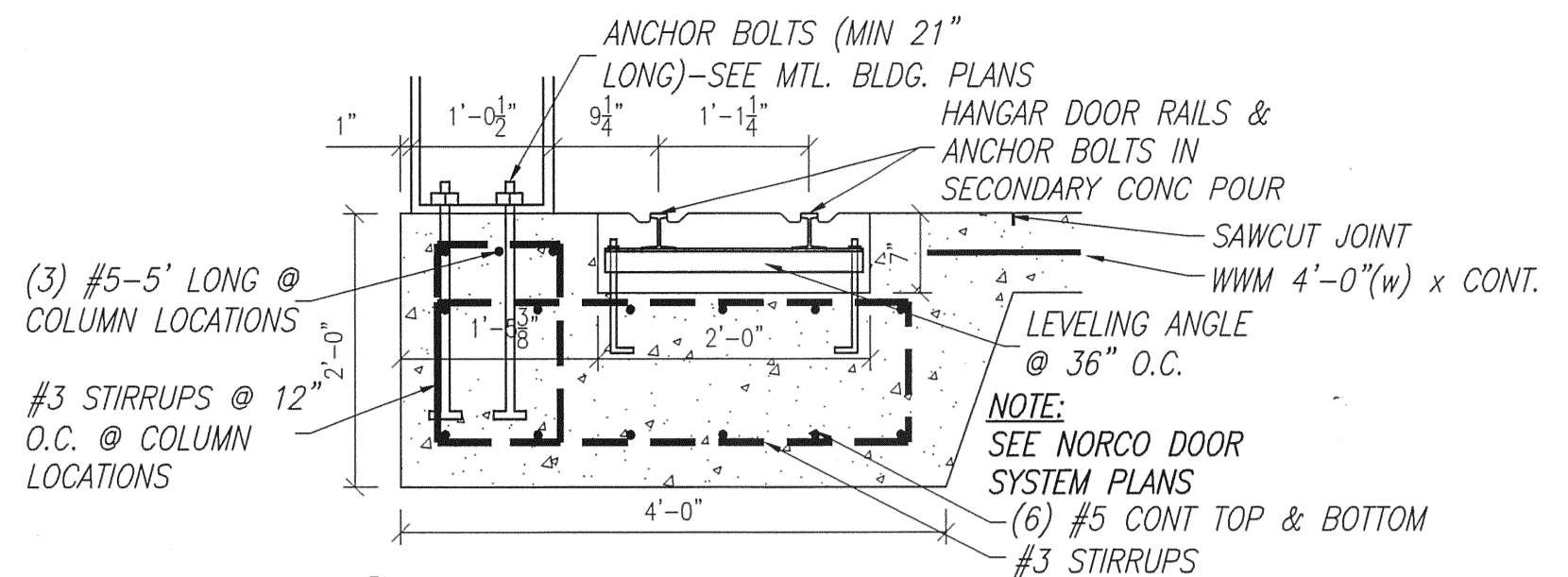
SMALL AIRCRAFT TRANSPORTATION
 SYSTEM (SATS)
 MAINTENANCE FACILITY
 Gainesville, FL

SPUTO AND LAMMERT ENGINEERING, LLC
 THOMAS SPUTO, Ph.D PE
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 GAINESVILLE, FL 32601
 (352) 378-0448 FAX (352) 372-1831
 E-MAIL: sputoeng@minispring.com
 CA 6855
 Florida PE 39142

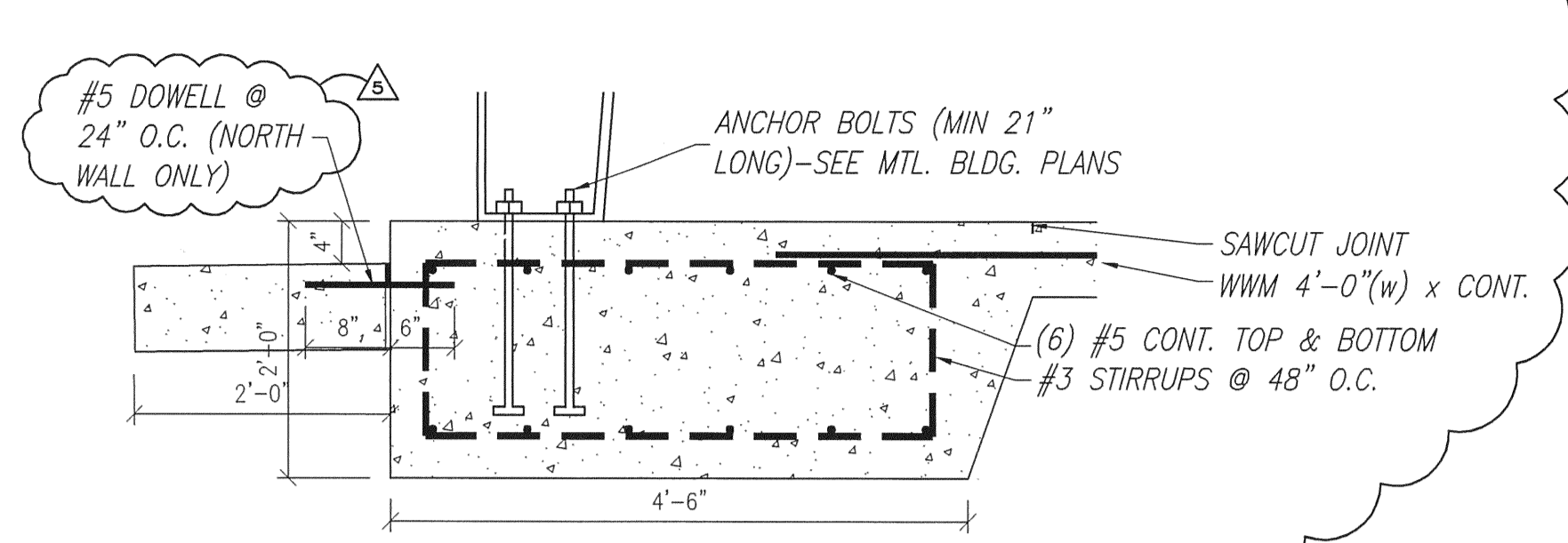
FND PLAN CONSTRUCTION PLANS



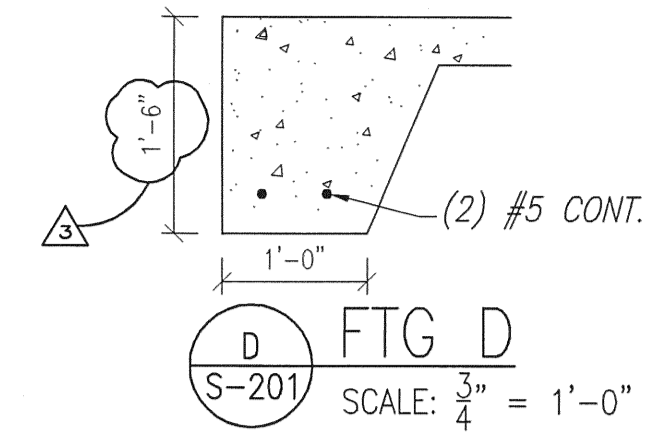
A FTG A
S-201 SCALE: 3/4" = 1'-0"



B FTG B
S-201 SCALE: 3/4" = 1'-0"

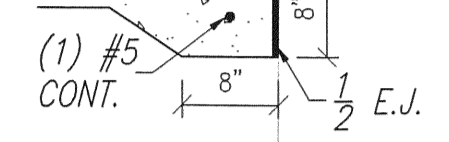


C FTG C
S-201 SCALE: 3/4" = 1'-0"

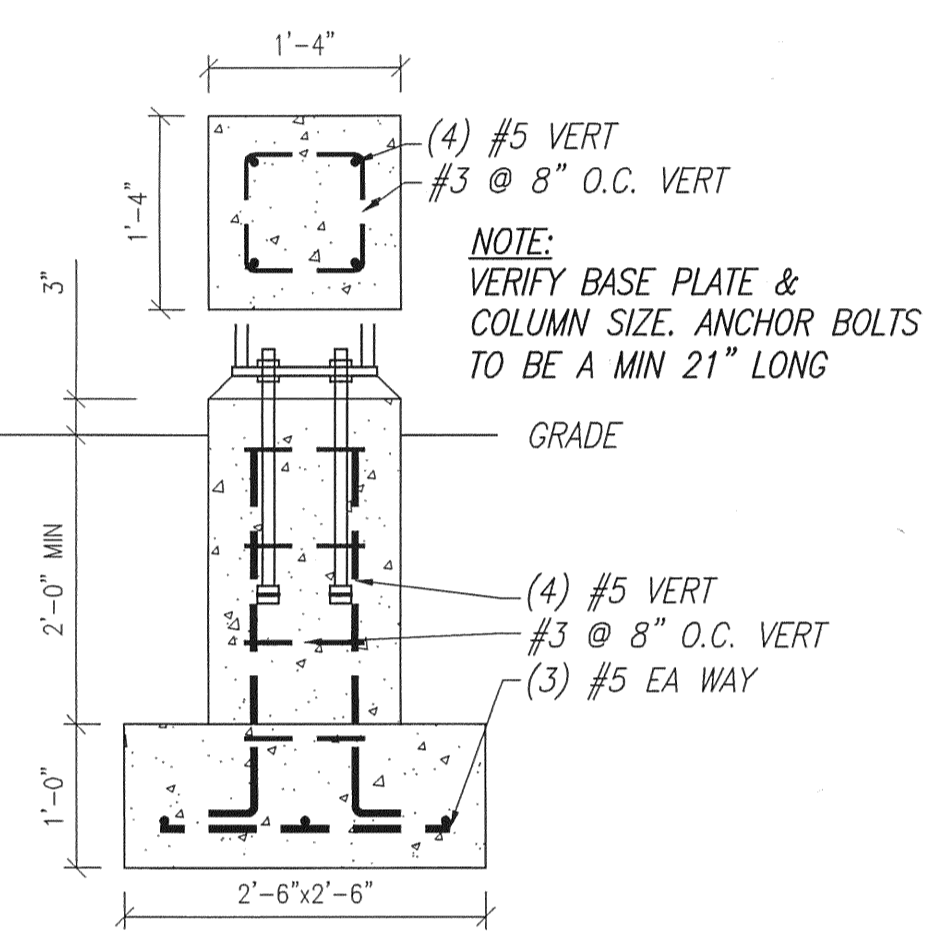


D FTG D
S-201 SCALE: 3/4" = 1'-0"

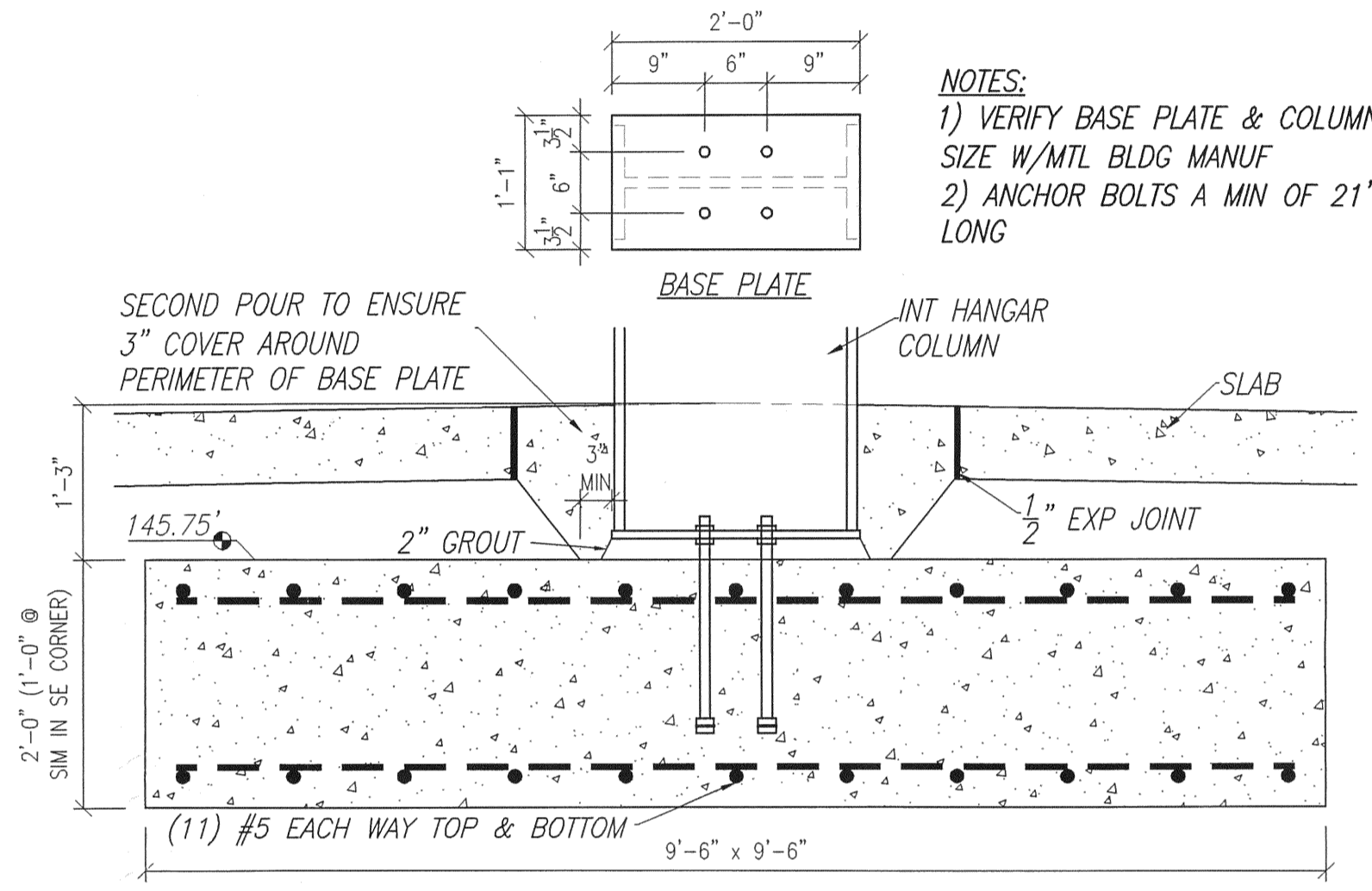
NOTE:
SEE FOUNDATION PLAN FOR SLAB THICKNESS & ADJACENT FTG



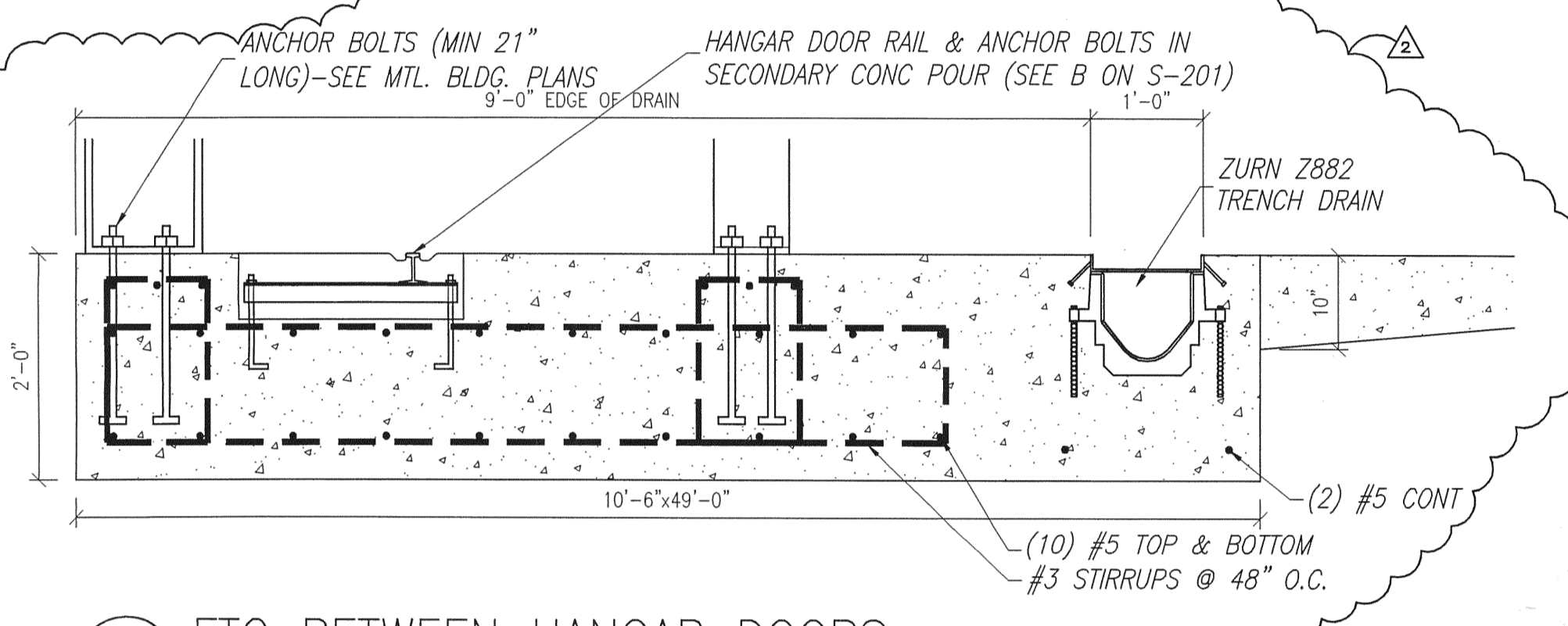
E FTG E
S-201 SCALE: 3/4" = 1'-0"



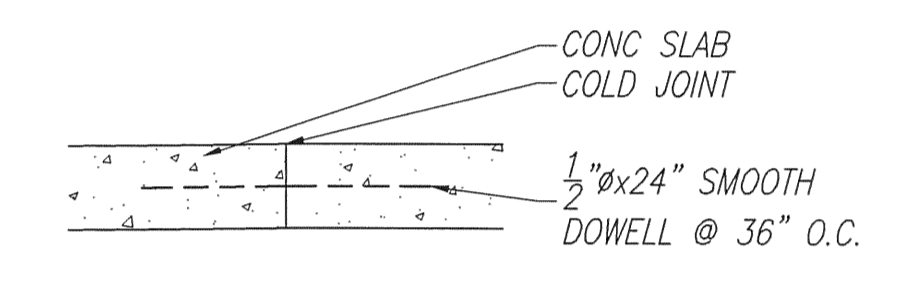
F PIER DETAIL @ 6 & 6.7
S-201 SCALE: 3/4" = 1'-0"



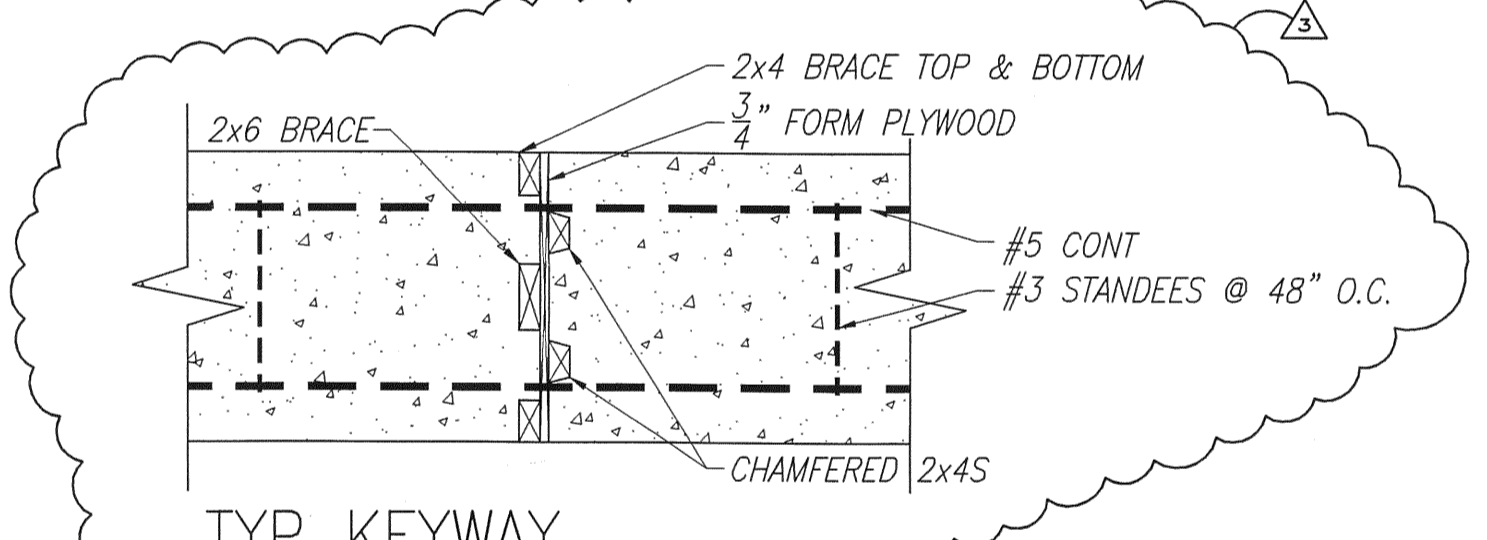
G TYP INT HANGAR COL FTG
S-201 SCALE: 3/4" = 1'-0"



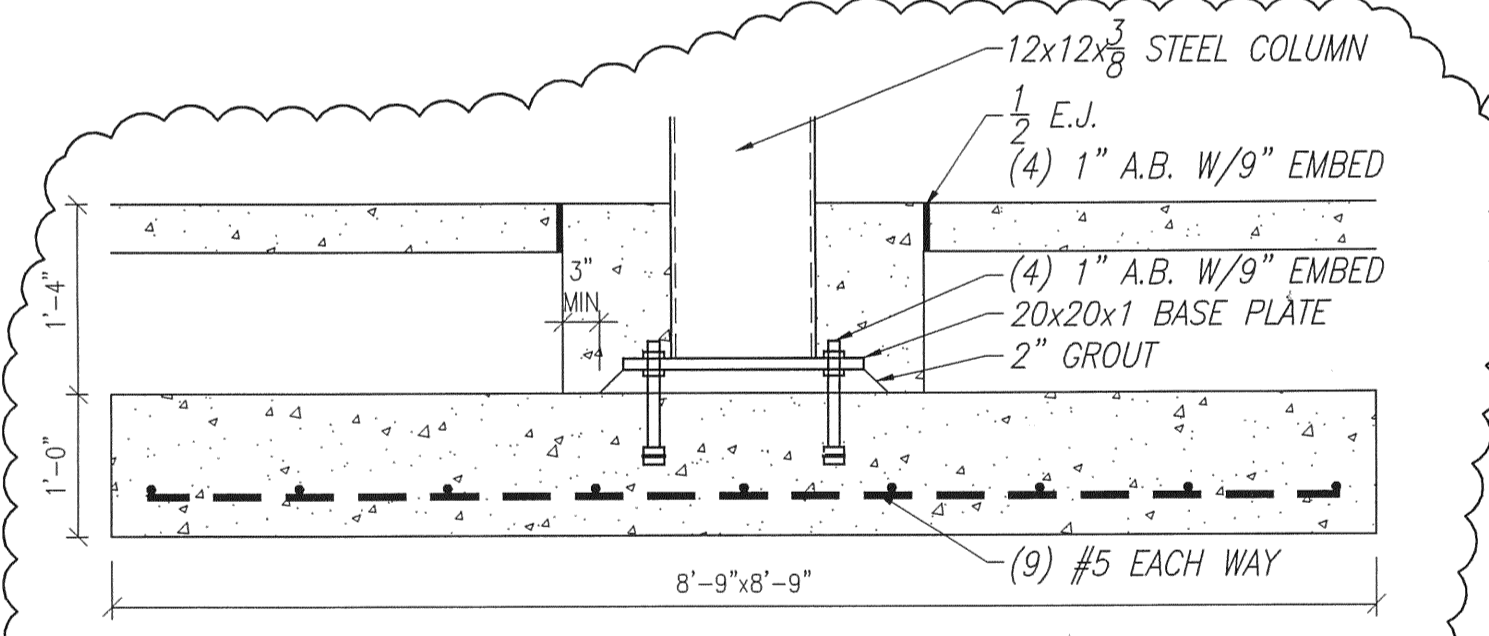
H FTG BETWEEN HANGAR DOORS
S-201 SCALE: 3/4" = 1'-0"



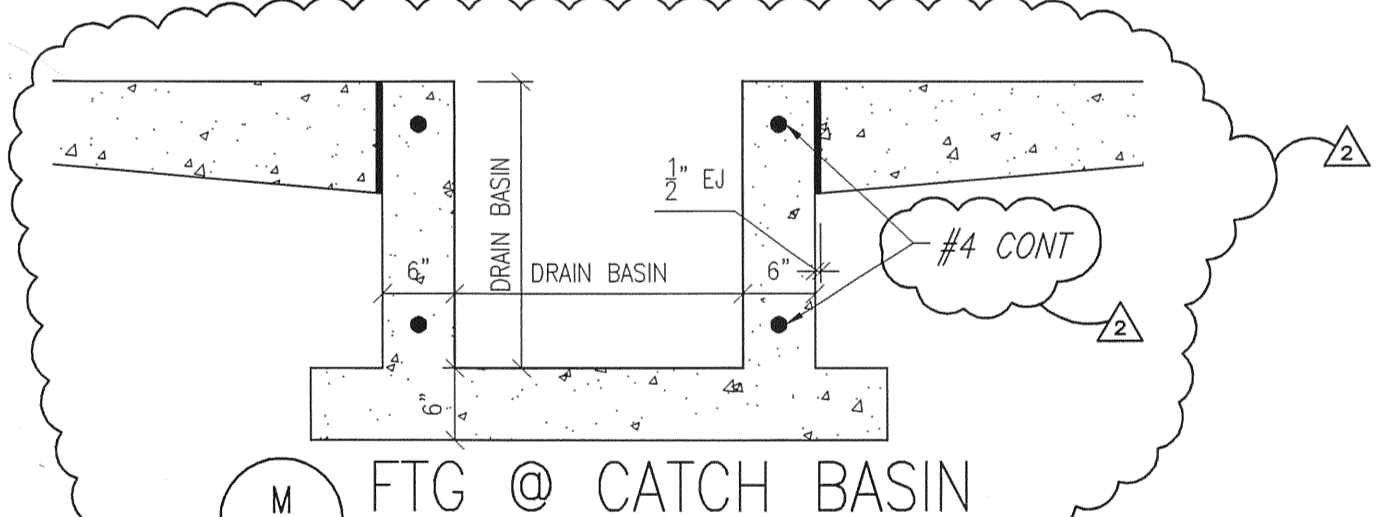
J TYP DOWELL
S-201 SCALE: 1/2" = 1'-0"



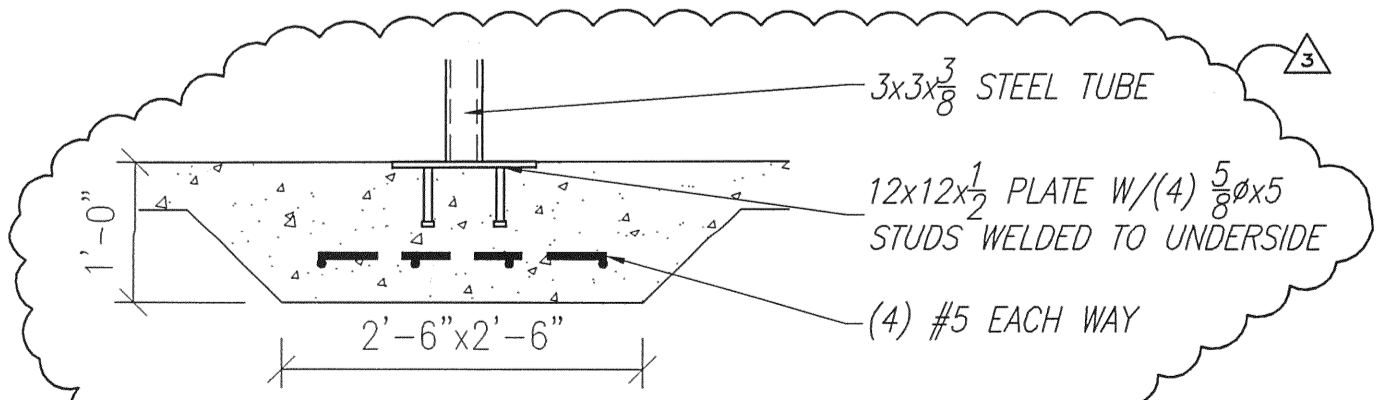
I TYP KEYWAY
SCALE: 3/4" = 1'-0"



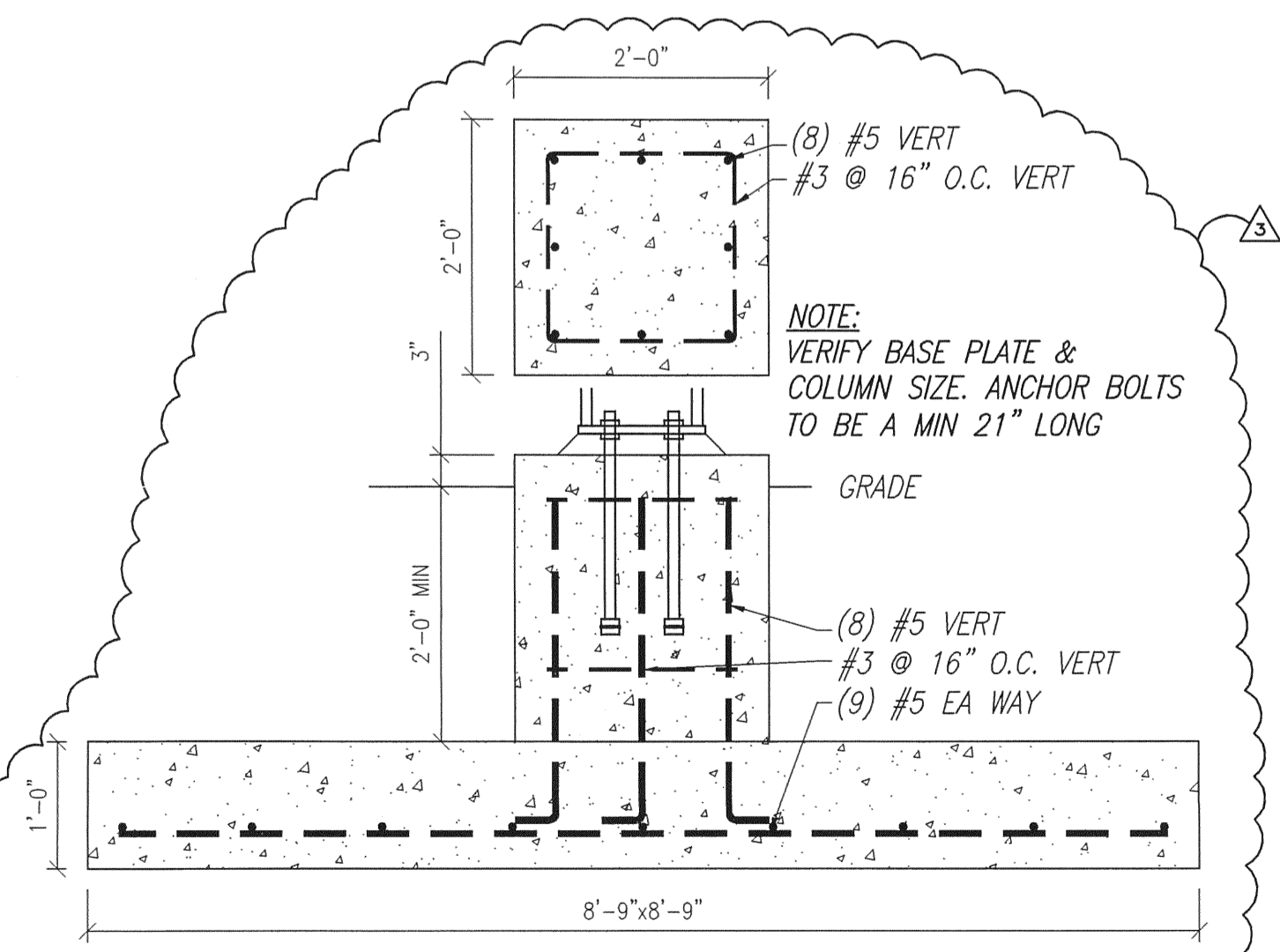
K FTG K
S-201 SCALE: 3/4" = 1'-0"



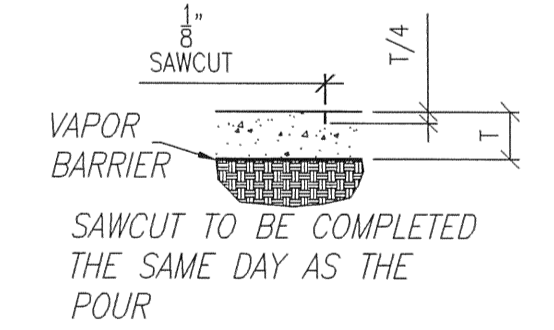
M FTG @ CATCH BASIN
S-201 SCALE: 3/4" = 1'-0"



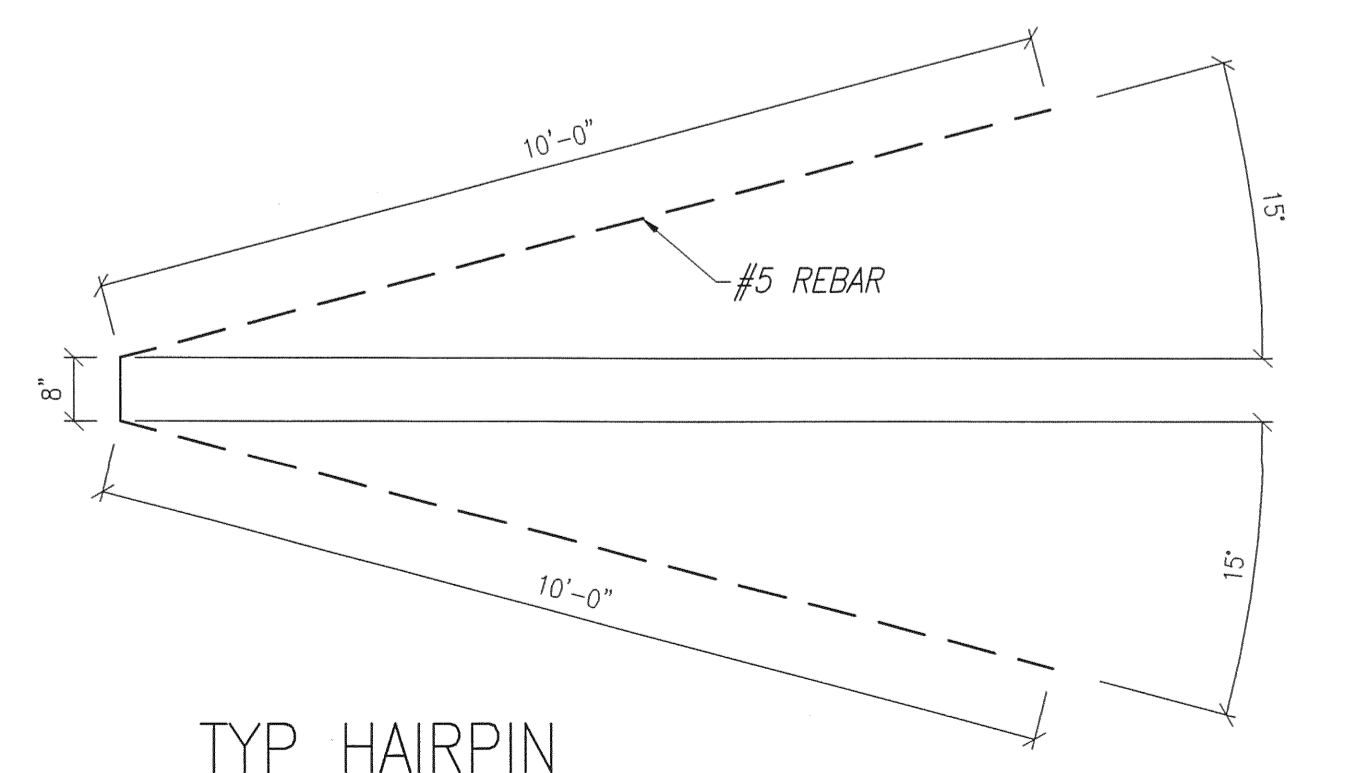
N FTG @ 3x3 TS
S-201 SCALE: 3/4" = 1'-0"



P PIER DETAIL @ EXT LOUNGE COLs
S-201 SCALE: 3/4" = 1'-0"



Q TYP SAWCUT
SCALE: 3/4" = 1'-0"



R TYP HAIRPIN
SCALE: 1/2" = 1'-0"

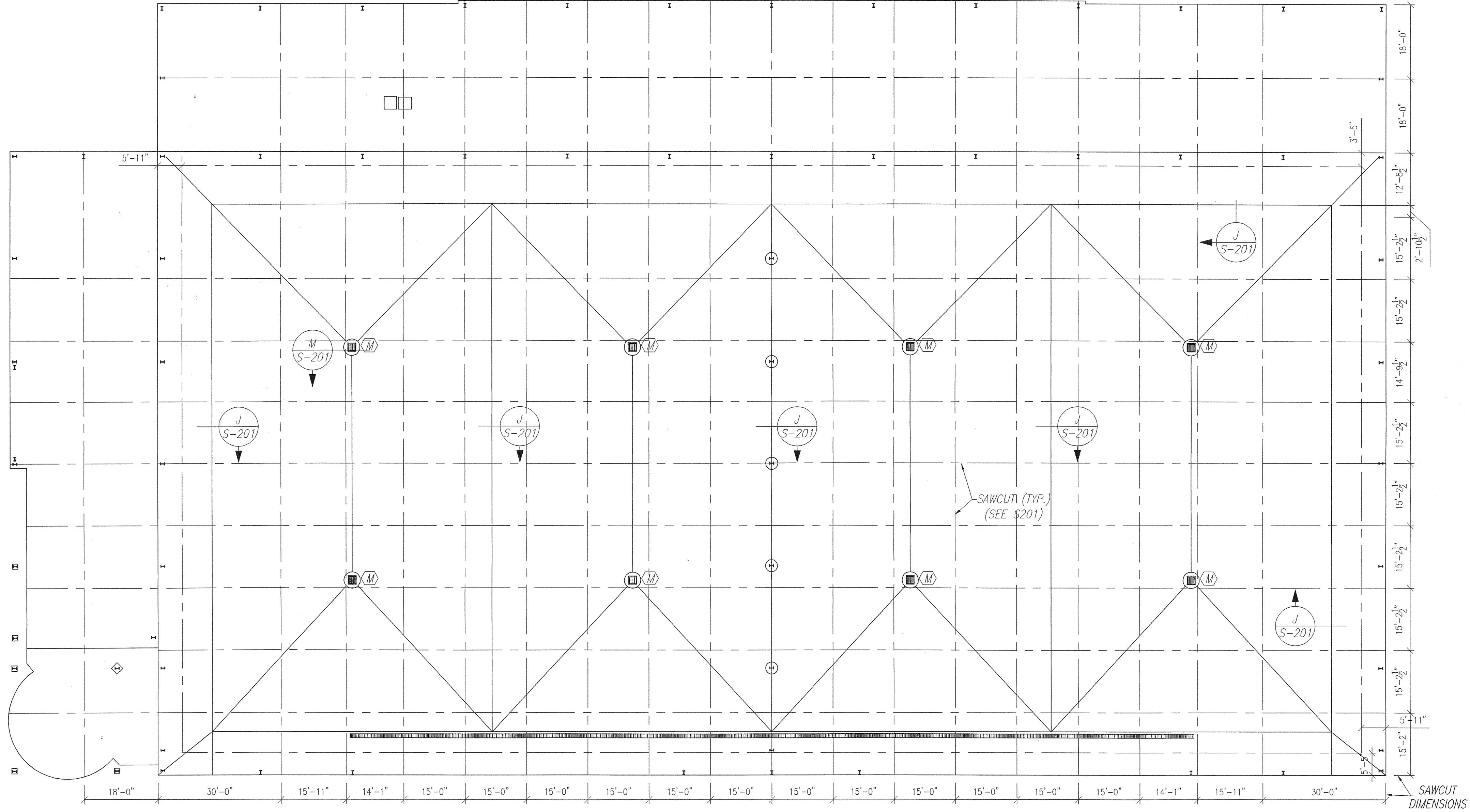
SPUTO AND LAMBERT ENGINEERING, LLC
THOMAS SPUTO, PHD P.E.
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E-MAIL: sputo@lambertengineering.com
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Florida PE 8942

SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Gainesville, FL

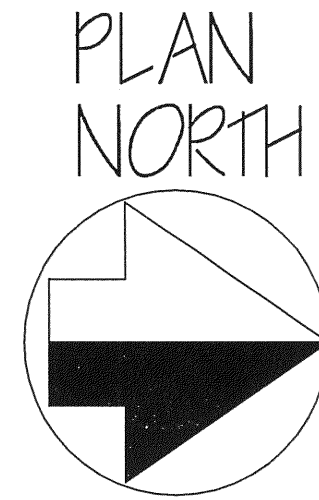
NO.	DATE	REVISION
6	4/25/07	AS-BUILT PLANS
5	10/2/06	CONSTRUCTION SET
4	8/28/06	PERMIT/CONSTRUCTION SET
3	8/4/06	100% DESIGN SUBMITTAL
2	6/15/06	MODIFIED DETAILS
1	6/9/06	REVISE SECTION NO. ADD SECTION L

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NO.	DATE	NOTED
5-201	5/15/06	JEM



SLAB JOINT LAYOUT PLAN
SCALE: $\frac{1}{16}'' = 1'-0''$



JOB NO. C6-622
DRAWN JEM
DATE 9/15/06
SCALE NOTED
SHEET 5-301

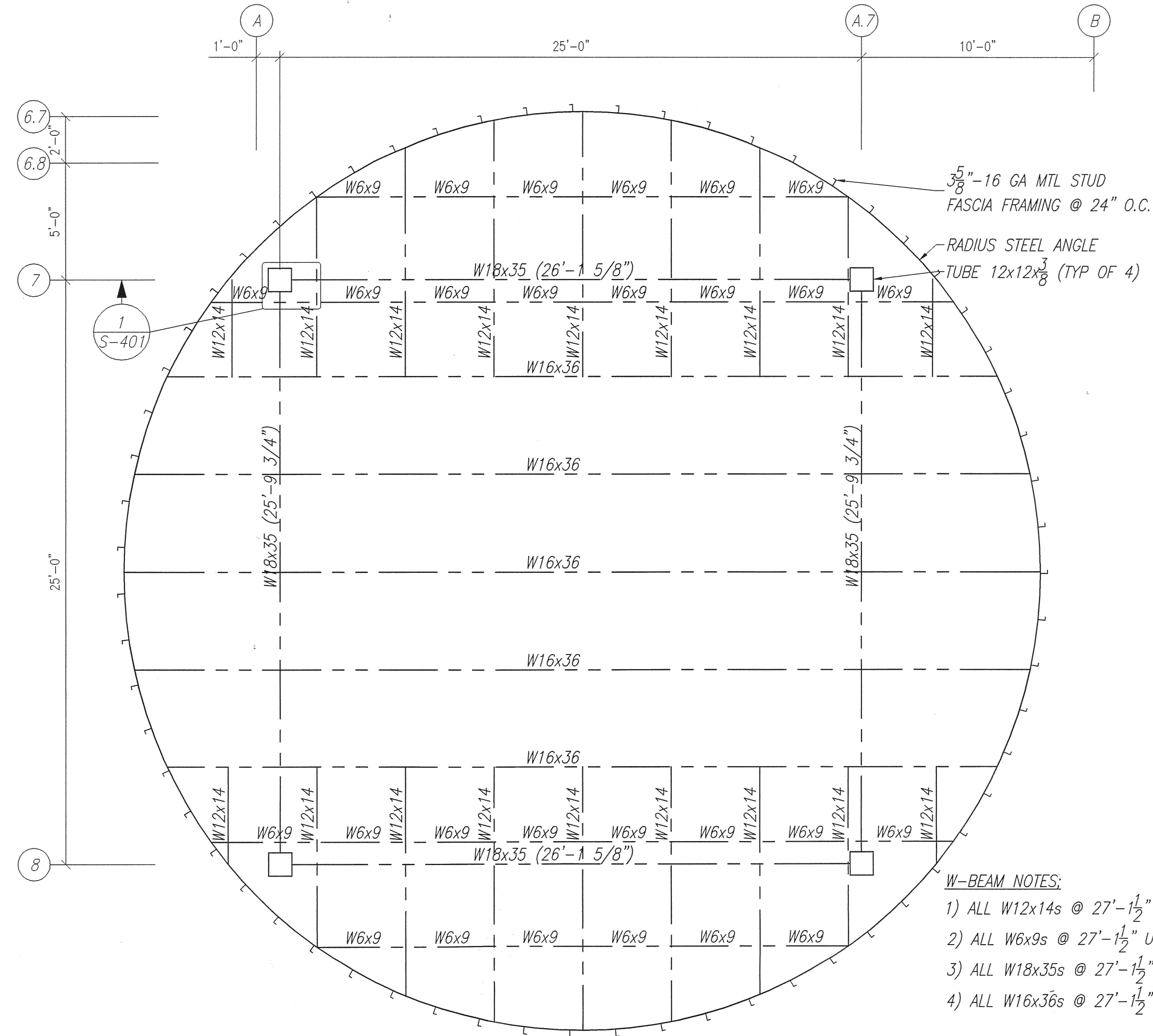
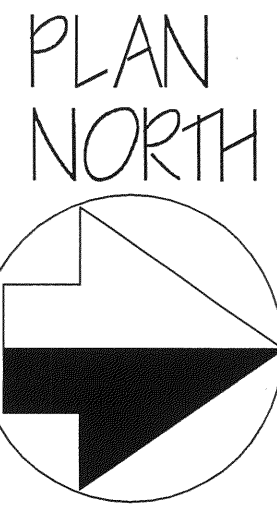
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NO.	DATE	REVISION
1	8/4/06	100% DESIGN SUBMITTAL
2	8/28/06	PERMIT/CONSTRUCTION SET
3	10/3/06	CONSTRUCTION SET
4	4/25/07	AS-BUILT PLANS

SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Gainesville, FL

SAWCUT PLAN CONSTRUCTION PLANS

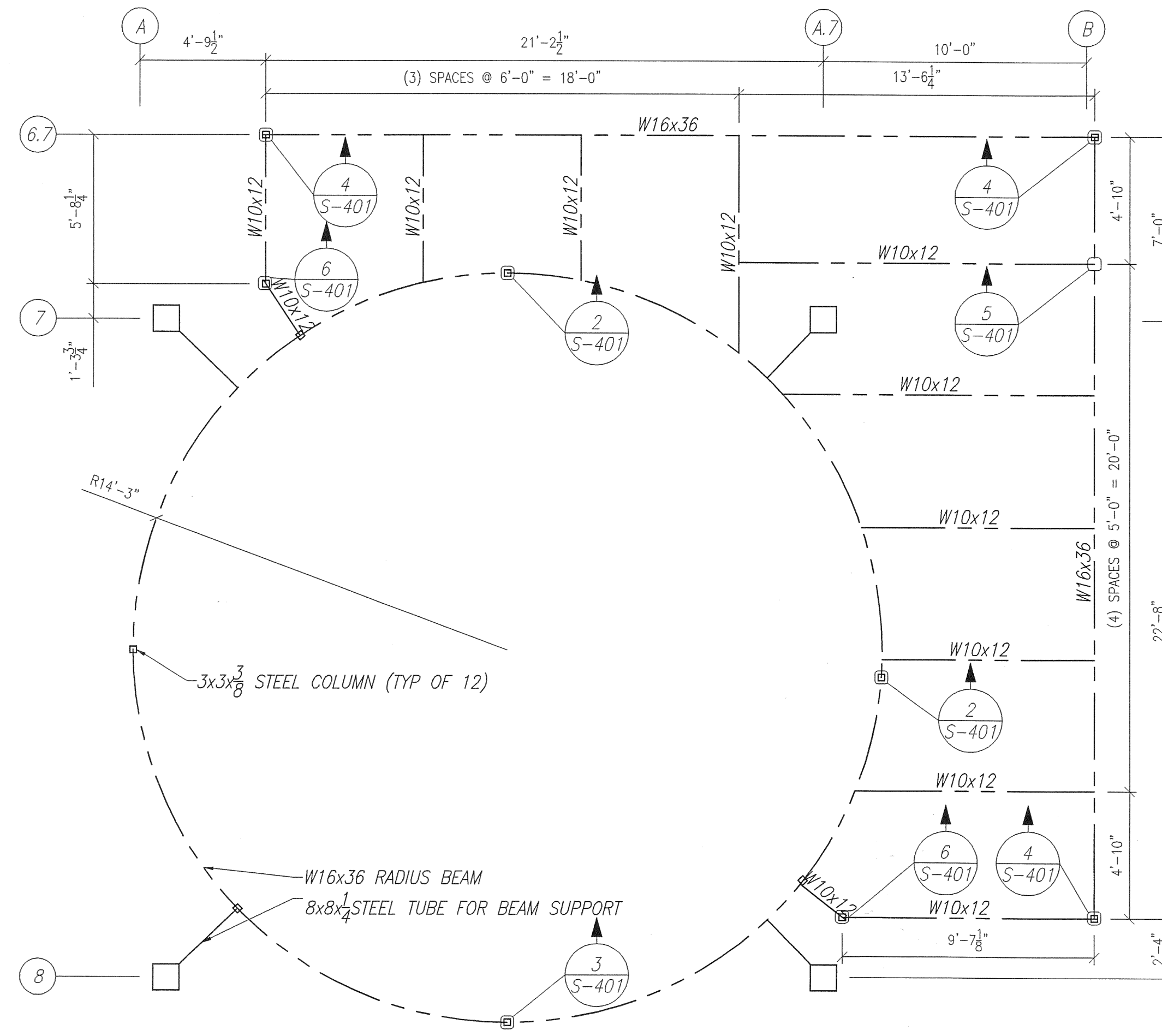
SPUTO AND LAMBERT ENGINEERING, LLC
THOMAS SPUTO, PhD PE
10 SW 1 AVE
GAINESVILLE, FL 32601
(352) 378-0448 FAX (352) 372-1831
E-MAIL: sputo@engineeringllc.com
CA 6855
Florida PE 39142



- W-BEAM NOTES:**
- 1) ALL W12x14s @ 27'-1 1/2" U.N.O.
 - 2) ALL W6x9s @ 27'-1 1/2" U.N.O.
 - 3) ALL W18x35s @ 27'-1 1/2" U.N.O.
 - 4) ALL W16x36s @ 27'-1 1/2" U.N.O.

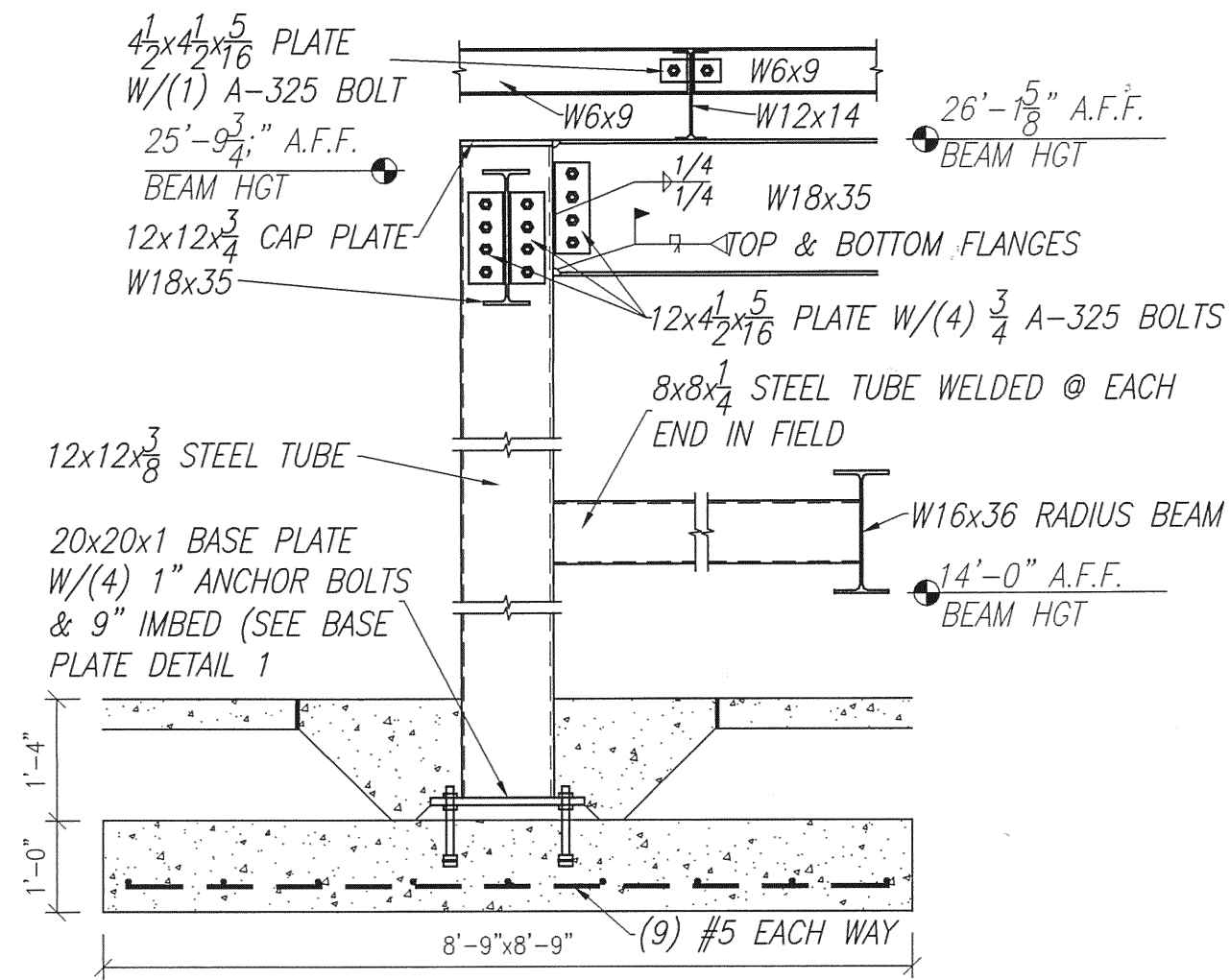
LOUNGE STRUCTURAL PLAN-HIGH ROOF

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



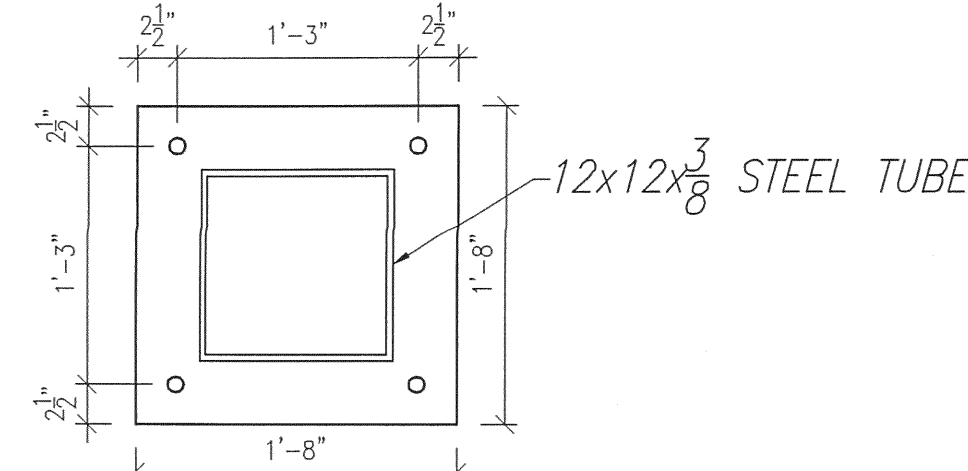
LOUNGE STRUCTURAL PLAN-LOW ROOF

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



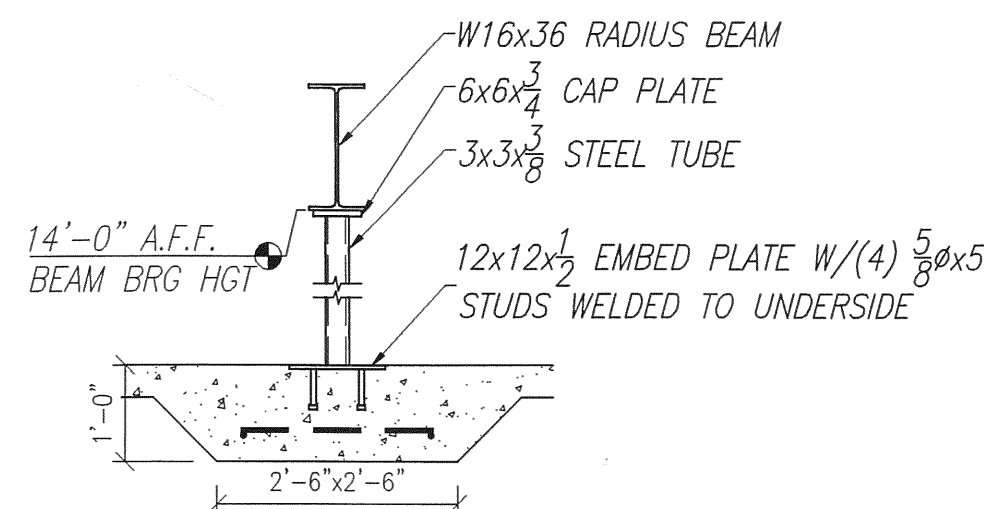
1 COLUMN DETAIL

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



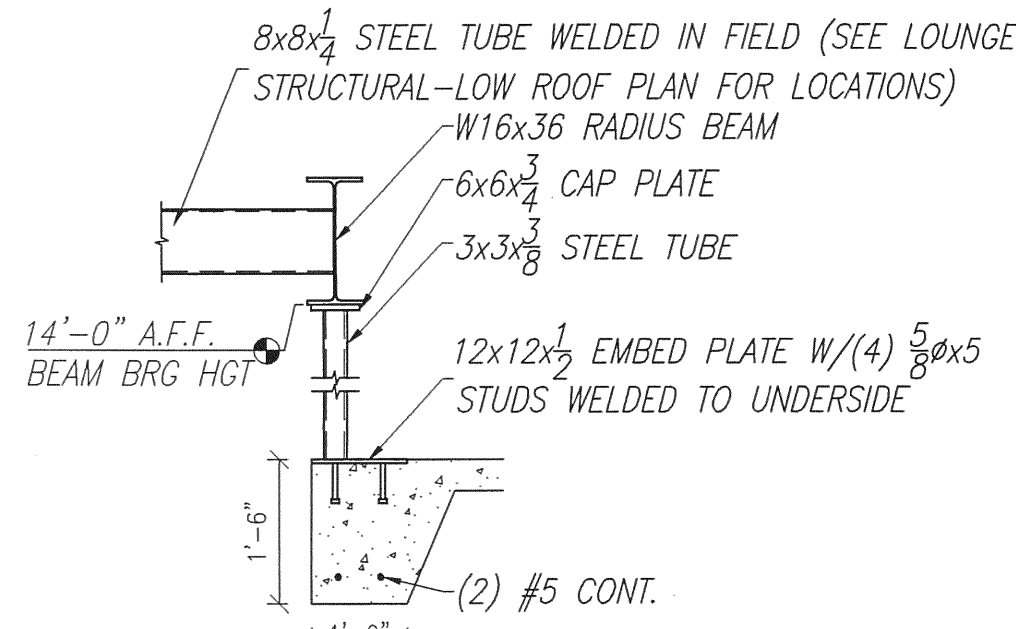
BASE PLATE DETAIL 1

SCALE: 1" = 1'-0"



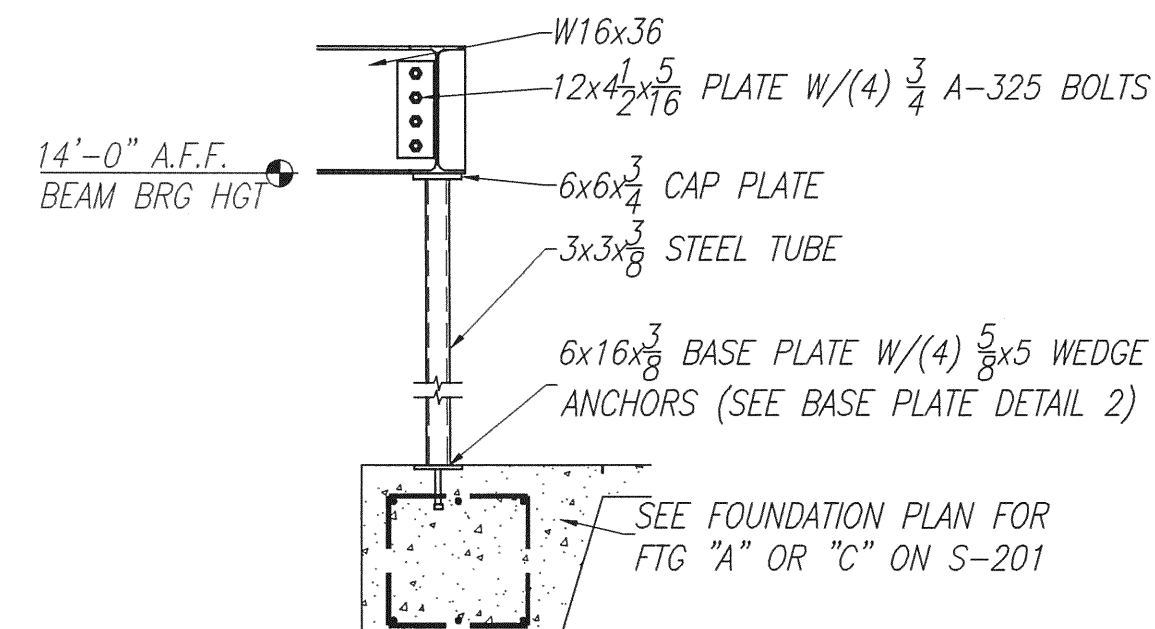
2 COLUMN DETAIL

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



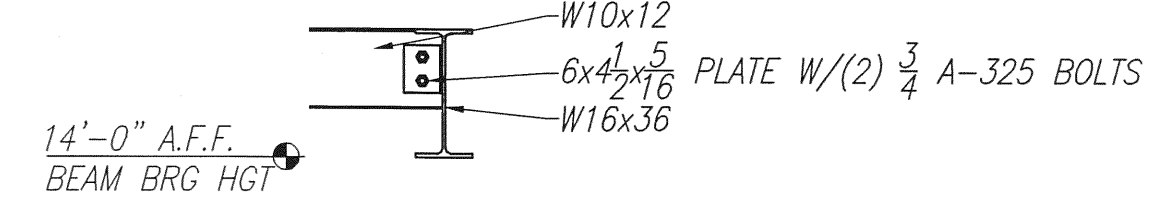
3 COLUMN DETAIL

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



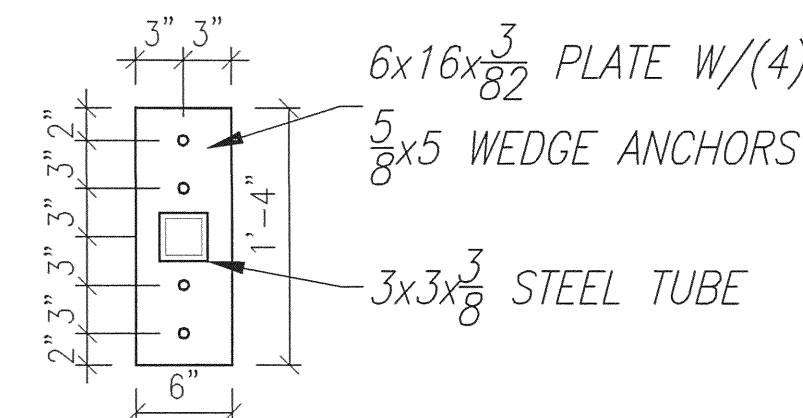
4 COLUMN DETAIL

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



5 BEAM TO BEAM DETAIL

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



BASE PLATE DETAIL 2

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

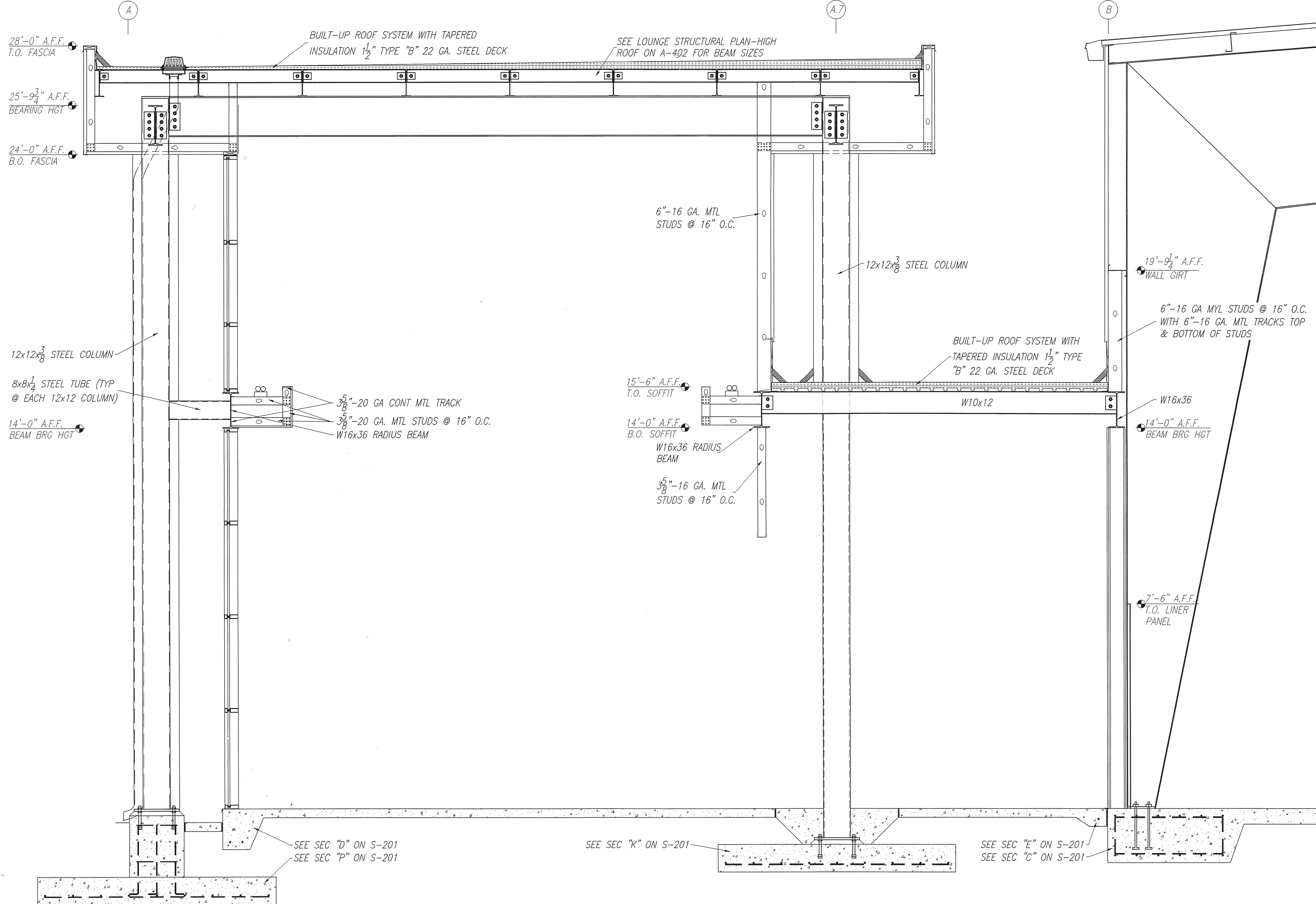
SPUTO AND LAMBERT ENGINEERING, LLC
 THOMAS SPUTO, Ph.D. P.E.
 10 SW 1 AVE
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 (352) 378-0448 FAX (352) 378-8831
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 Florida PE 8942

SMALL AIRCRAFT TRANSPORTATION
 SYSTEM (SATS)
 MAINTENANCE FACILITY
 GAINESVILLE, FL
 LOUNGE STRUCTURAL
 PLANS
 CONSTRUCTION PLANS

NO.	DATE	REVISION
1	8/4/06	100% DESIGN SUBMITTAL
2	10/3/06	PERMIT/CONSTRUCTION SET
3	10/3/06	CONSTRUCTION SET
4	4/23/07	AS-BUILT PLAN

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JOB NO.	DATE	SCALE	SHEET
06-622	5/15/06	NOTED	5-401



1 FTG @ CATCH BASIN
S-501 SCALE: 3/4" = 1'-0"

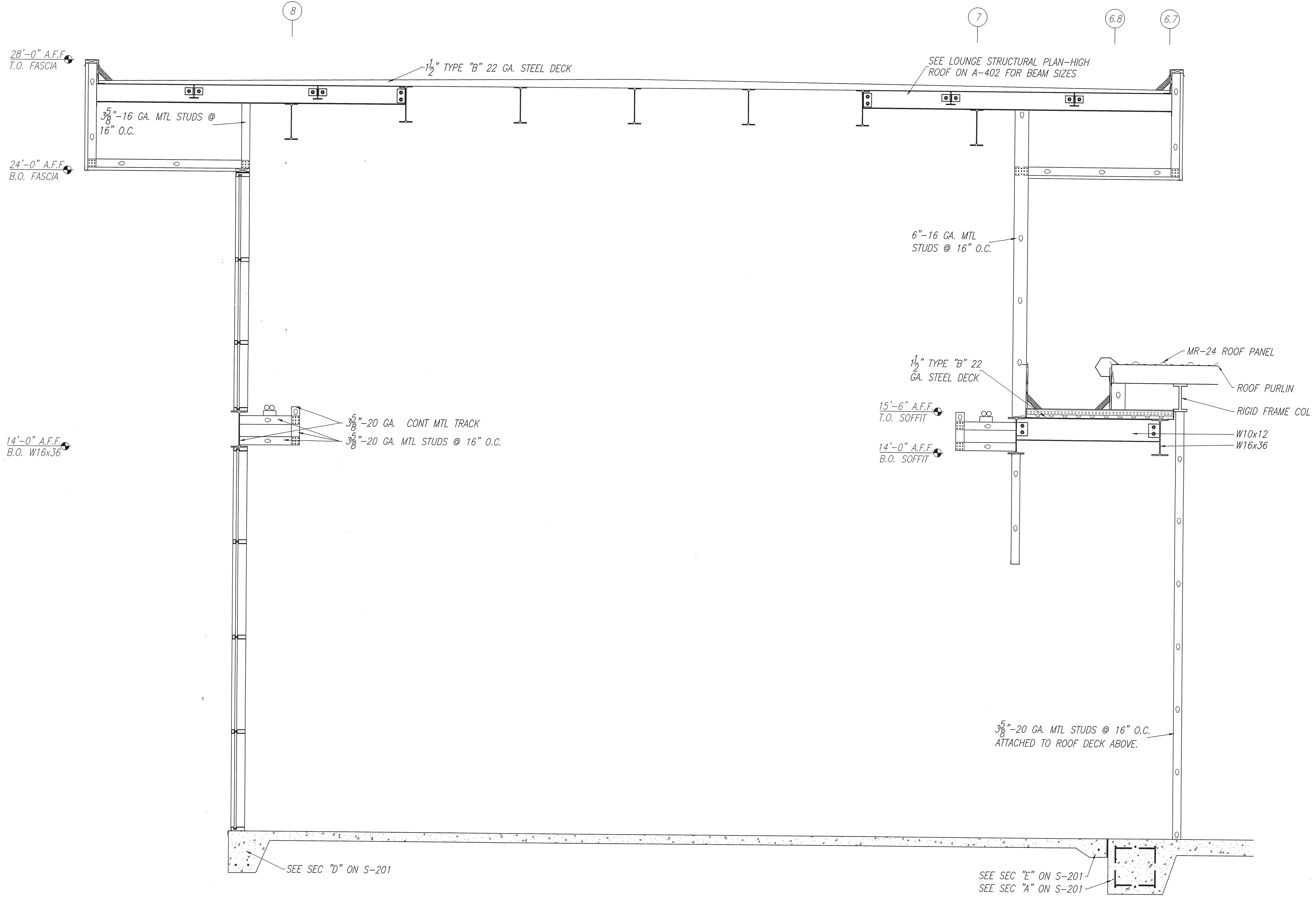
SPUTO AND LAMBERT ENGINEERING, LLC
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CA 6855
Florida PE 89142

SMALL AIRCRAFT TRANSPORTATION
SYSTEM (SATS)
MAINTENANCE FACILITY
Gainesville, FL

NO.	DATE	REVISION
5	4/25/07	AS-BUILT PLANS
4	10/3/06	CONSTRUCTION SET
3	8/28/06	PERMIT/CONSTRUCTION SET
2	8/1/06	100% DESIGN SUBMITTAL
1	6/19/06	ADD SHEET S-301

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JOB NO.	C6-622
DRAWN	JEM
DATE	5/15/06
SCALE	NOTED
SHEET	5-501



2
S-601 LOUNGE CROSS SECTION
SCALE: 1/2" = 1'-0"

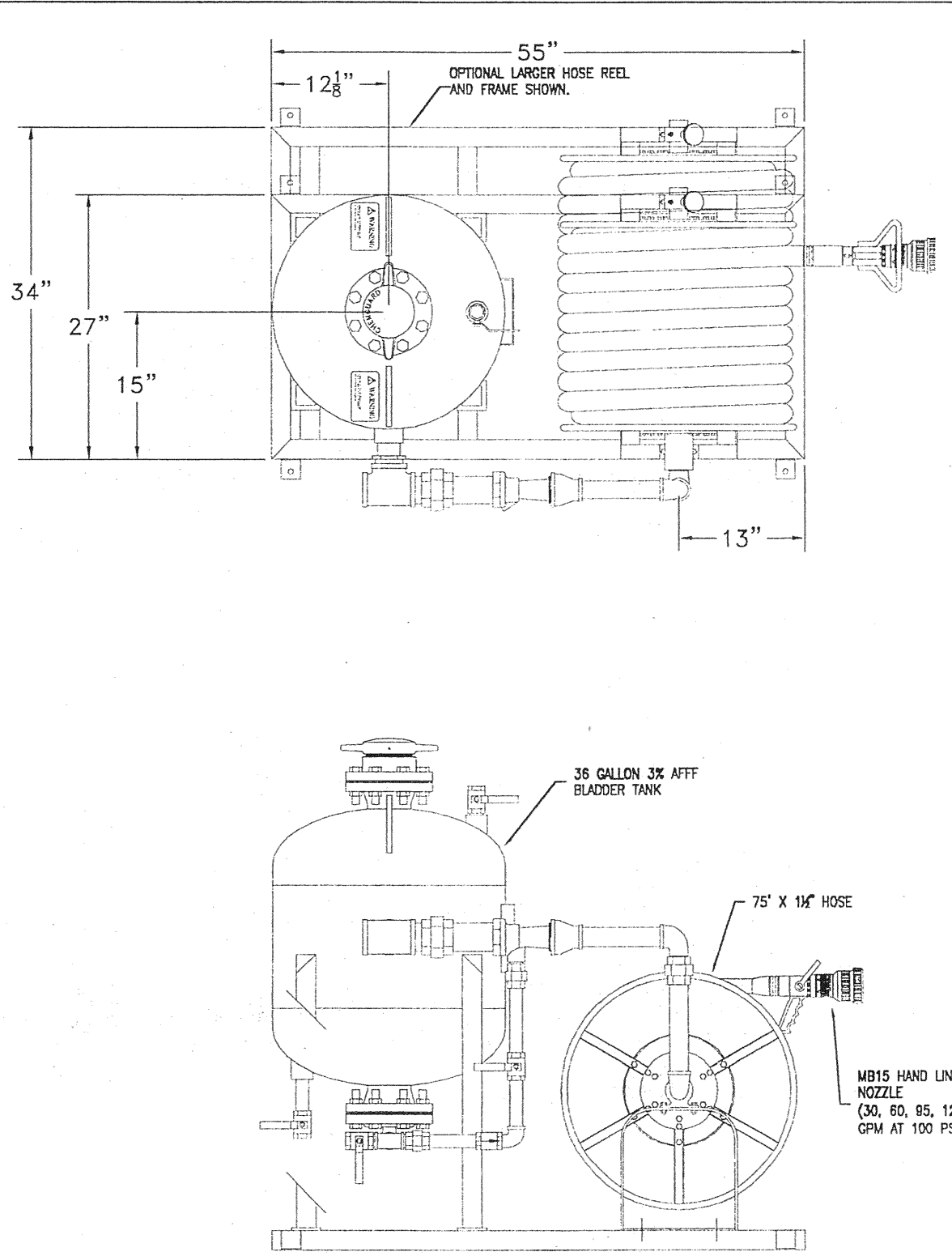
SPUTO AND LAMBERT ENGINEERING, LLC
 THOMAS SPUTO, P.D. P.E.
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 CA 6855
 Florida PE 39142

SMALL AIRCRAFT TRANSPORTATION
 SYSTEM (SATS)
 MAINTENANCE FACILITY
 LOUNGE STRUCTURAL
 SECTIONS CONSTRUCTION PLANS

NO.	DATE	REVISION
5	4/25/07	AS-BUILT PLANS
4	10/2/06	CONSTRUCTION SET
3	8/28/06	PERMIT/CONSTRUCTION SET
2	8/4/06	100% DESIGN SUBMITTAL
1	6/15/06	ADD SHEET S-301

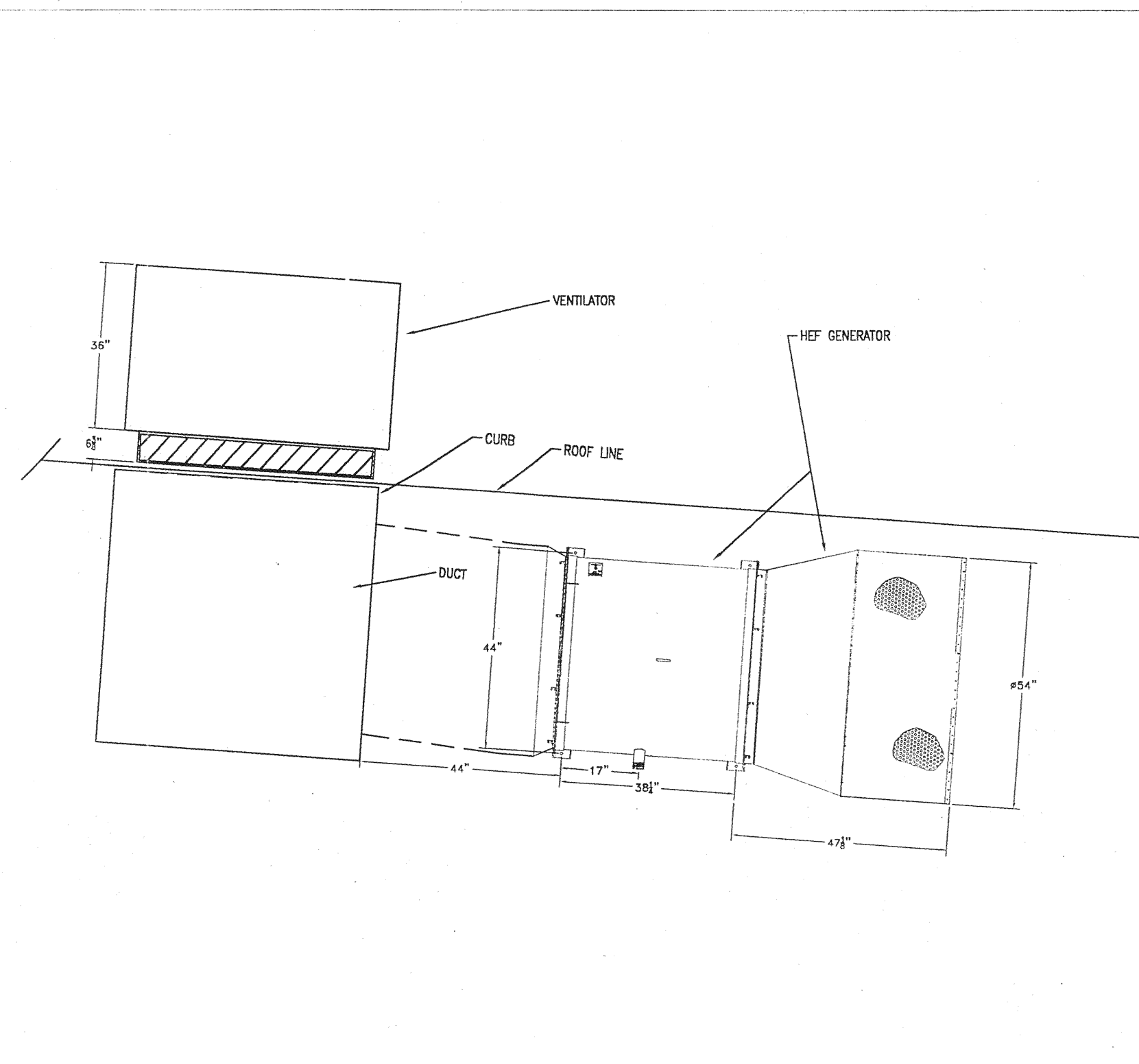
SCHERER
 CONSTRUCTION AND ENGINEERING, LLC.
 GAINESVILLE, FL (352) 371-1417
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SUB NO.	06-622
DRAWN	LEM
DATE	5/15/06
SCALE	NOTED
SHT.	5-601



BLADDER TANK/FOAM STATION (TYP.)

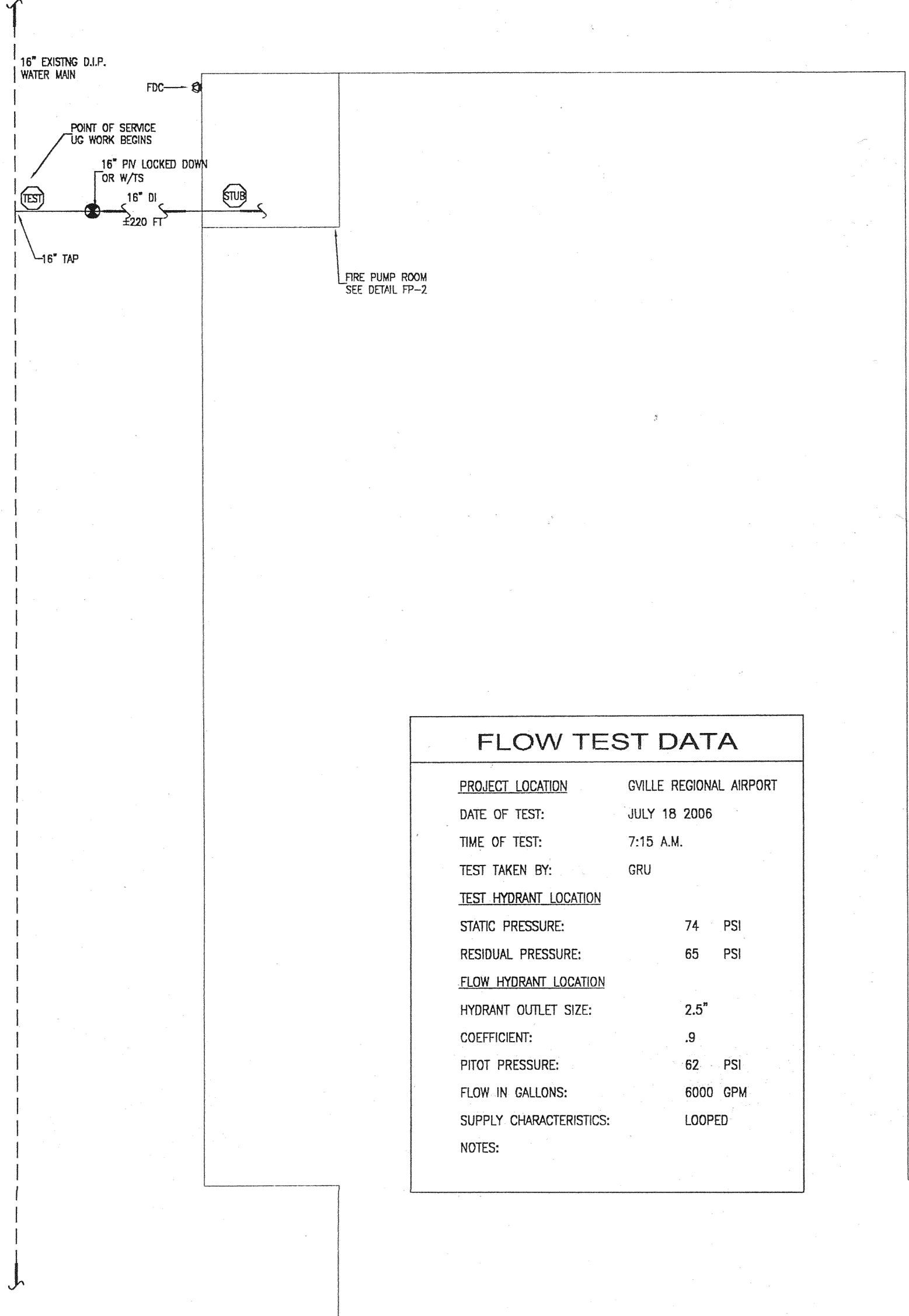
SCALE: 3/4" = 1'0"



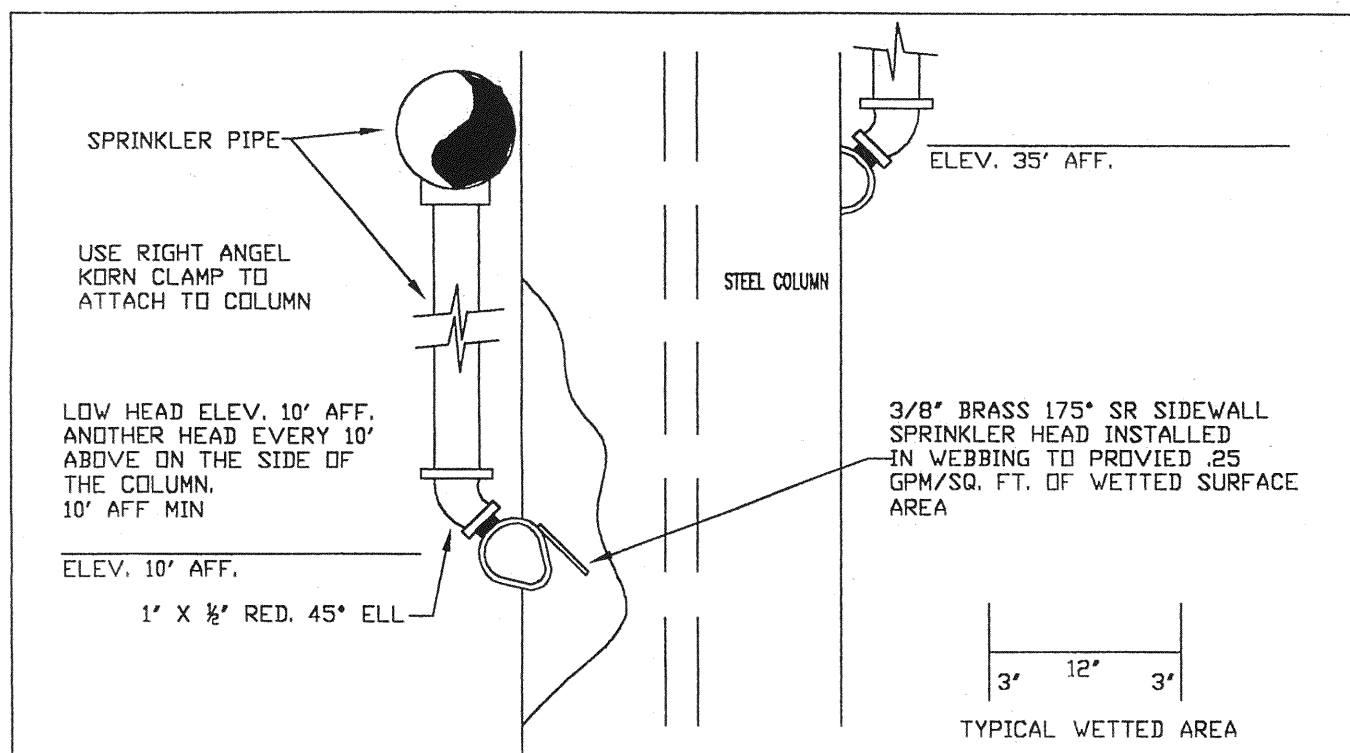
HIGH EXPANSION FOAM GENERATOR (TYP.)

SCALE: 1/2" = 1'0"

FIRE PROTECTION DESIGN CRITERIA	
WET PIPE SYSTEM:	
GROUP I NFPA 409	HANGAR BAY
DESIGN DENSITY:	.17 GPM/SQ.FT.
DESIGN AREA:	15,000 SQ. FT.
PROTECTION AREA PER SPRINKLER:	130 SQ. FT. MAXIMUM
HEAD SPACING:	12'-0" MAXIMUM
OUTSIDE HOSE ALLOWANCE:	500 GPM
ORDINARY HAZARD GROUP I EC:	
DESIGN DENSITY:	.15 GPM/SQ.FT.
DESIGN AREA:	1035 SQ. FT. BASED UPON 11-2.3.2.3
PROTECTION AREA PER SPRINKLER:	400 SQ. FT. MAXIMUM
HEAD SPACING:	20'-0" MAXIMUM
OUTSIDE HOSE ALLOWANCE:	250 GPM
LIGHT HAZARD:	
DESIGN DENSITY:	.10 GPM/SQ.FT.
DESIGN AREA:	1035 SQ. FT. BASED UPON 11-2.3.2.3
PROTECTION AREA PER SPRINKLER:	225 SQ. FT. MAXIMUM
HEAD SPACING:	15'-0" MAXIMUM
OUTSIDE HOSE ALLOWANCE:	100 GPM
DRY-PIPE SYSTEM:	
EXTRA HAZARD GROUP I:	CANOPY
DESIGN DENSITY:	.3 GPM/SQ.FT.
DESIGN AREA:	3,250 SQ. FT.
PROTECTION AREA PER SPRINKLER:	100 SQ.FT. MAXIMUM
HEAD SPACING:	12'-0" MAXIMUM
OUTSIDE HOSE ALLOWANCE:	500 GPM



FLOW TEST DATA	
PROJECT LOCATION:	GVILLE REGIONAL AIRPORT
DATE OF TEST:	JULY 18 2006
TIME OF TEST:	7:15 A.M.
TEST TAKEN BY:	GRU
TEST HYDRANT LOCATION	
STATIC PRESSURE:	74 PSI
RESIDUAL PRESSURE:	65 PSI
FLOW HYDRANT LOCATION	
HYDRANT OUTLET SIZE:	2.5"
COEFFICIENT:	.9
PITOT PRESSURE:	62 PSI
FLOW IN GALLONS:	6000 GPM
SUPPLY CHARACTERISTICS:	LOOPED
NOTES:	



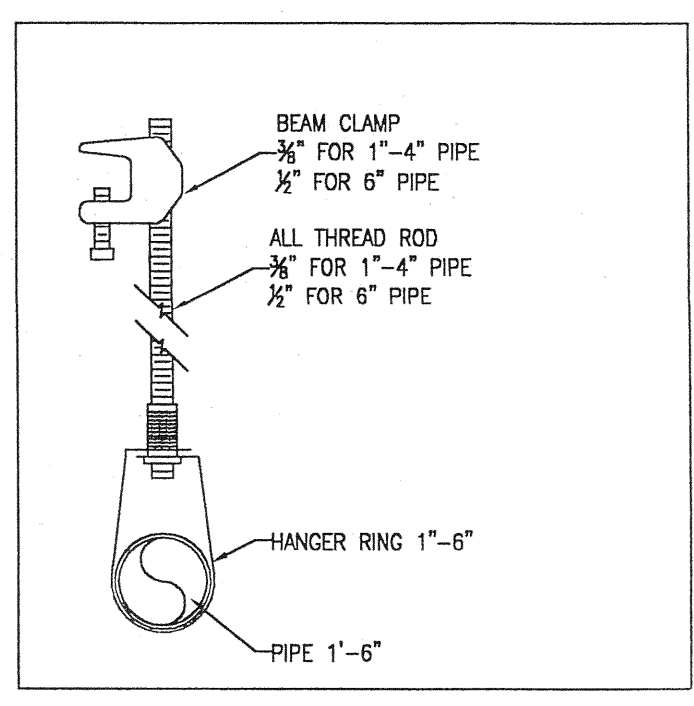
TYPICAL STEEL COLUMN PROTECTION

SCALE: NOT TO SCALE

- FIRE PROTECTION GENERAL NOTES**
- FIRE PROTECTION SYSTEM(S) TO COMPLY WITH NFPA 11, 11A, 13, 14, 20, 409 AND ALL APPLICABLE STATE AND LOCAL CODES.
 - ADHERE TO AND OBTAIN ALL PERMITS, LICENSES, AND ALL GOVERNMENT REQUIREMENTS.
 - FINAL INSPECTION AND APPROVAL BY FIRE MARSHAL AND ARCHITECT/ENGINEER.
 - CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND A FL REGISTERED STRUCTURAL ENGINEER. CUT PERFORMED BY THE CONTRACTOR.
 - PIPE ROUTING SHOWN SHALL BE USED AND ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY EXISTING STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS AND AVOID ANY/ALL OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.
 - PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.
 - METHODS OF HANGING PIPES, HEADERS, AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13.
 - PROTECT ALL PENETRATIONS OF SMOKE/FIRE RATED WALLS, FLOORS, ETC. WITH AN APPROVED UL LISTED FIRESTOP SYSTEM.
 - SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, AND CEILING SYSTEMS.
 - PROVIDE HEAD GUARDS ON SPRINKLER HEADS IN ELECTRIC, TELEPHONE, AND MECHANICAL EQUIPMENT ROOMS & OTHER LOCATIONS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE.
 - AUTOMATIC SPRINKLER TEMPERATURE RATINGS TO BE IN ACCORDANCE WITH NFPA 13.
 - ALL COMPONENTS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND/OR APPROVED BY FACTORY MUTUAL (FM) FOR USE WITH FIRE PROTECTION SYSTEMS.
 - ALL COMPONENTS SHALL BE LISTED FOR THE MAXIMUM SYSTEM PRESSURE, 175 PSI MINIMUM.
 - VALVES ON THE FIRE PROTECTION SYSTEM TO BE ELECTRICALLY SUPERVISED. TYPE AND EXACT LOCATION OF FLOW, PRESSURE, AND SUPERVISORY SWITCHES SHALL BE COORDINATED BETWEEN THE DIFFERENT RESPONSIBLE TRADES. ADDITIONAL WIRING OR DEVICES REQUIRED SHALL BE PROVIDED.
 - ALL POWER WIRING SHALL BE ACCOMPLISHED UNDER THE ELECTRICAL DIVISION. COORDINATE ALL ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR AND INSURE PROPER INSTALLATION.
 - SPRINKLERS SHALL COVER THE ENTIRE AREA OF THE ROOM INCLUDING ALCOVES. SPRAY SHALL NOT BE BLOCKED BY WALLS, SOFFITS, PARTITIONS OR OTHER OBSTRUCTIONS. ADDITIONAL SPRINKLERS REQUIRED SHALL BE PROVIDED.
 - PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK OR OBSTRUCTIONS 4 FEET OR LARGER.
 - PROVIDE HYDRAULIC DESIGN INFORMATION SIGNS AT EACH SYSTEM RISER.
 - PROVIDE STOCK OF SPARE SPRINKLERS AND HEAD WRENCH(S) IN A MOUNTED CABINET AS REQUIRED.

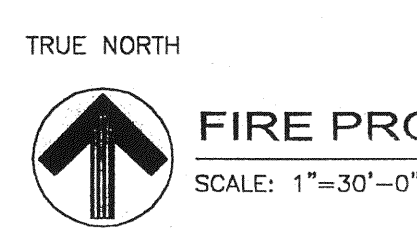
ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
A/S	AUTOMATIC SPRINKLERS
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
CR	CORROSION RESISTANT
CV	CONTROL VALVE
DN	DOWN
EC	EXTENDED COVERAGE
ELL	ELBOW
EDR	ENGINEER-OF-RECORD
FM	FACTORY MUTUAL GLOBAL
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FV/C	FIRE HOSE VALVE CABINET
FS	FLOW SWITCH
GB	GLASS BULB
GPM	GALLONS PER MINUTE
HP	HIGH PRESSURE
LP	LOW PRESSURE
LPS	LOW PRESSURE SWITCH
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OS&Y	OUTSIDE SCREW & YOKE VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
QR	QUICK RESPONSE
REC PEND	RECESSED PENDENT
REC PEND	RECESSED PENDENT
RN	RISER NIPPLE
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
SQ FT	SQUARE FEET
STP	STANDPIPE
TEMP	TEMPERATURE
TS	TAMPER SWITCH
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
W/	WITH

SYMBOLS LEGEND	
[Symbol]	FLOW SWITCH
[Symbol]	OS&Y VALVE
[Symbol]	CHECK VALVE
[Symbol]	BUTTERFLY VALVE
[Symbol]	FIRE DEPARTMENT CONNECTION
[Symbol]	FIRE HOSE VALVE
[Symbol]	ALARM BELL
[Symbol]	RISER LOCATION
[Symbol]	NEW CONNECTION
[Symbol]	HYDRAULIC REFERENCE POINT
[Symbol]	CAP
[Symbol]	PLUG
[Symbol]	NEW FIRE LINE
[Symbol]	EXISTING FIRE LINE



BEAM CLAMP HANGER

SCALE: NOT TO SCALE



FIRE PROTECTION SITE PLAN
SCALE: 1"=30'-0"

FOR REFERENCE ONLY
SEE CIVIL PLANS

ASSOCIATED ENGINEERING CONSULTANTS, LLC
522 STOCKTON STREET JACKSONVILLE, FLORIDA 32284
Phone: 384-384-7887 Fax: 384-384-7887 Email: info@assoceng.com

SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
FIRE PROTECTION SITE PLAN & DETAILS
GAINESVILLE, FL

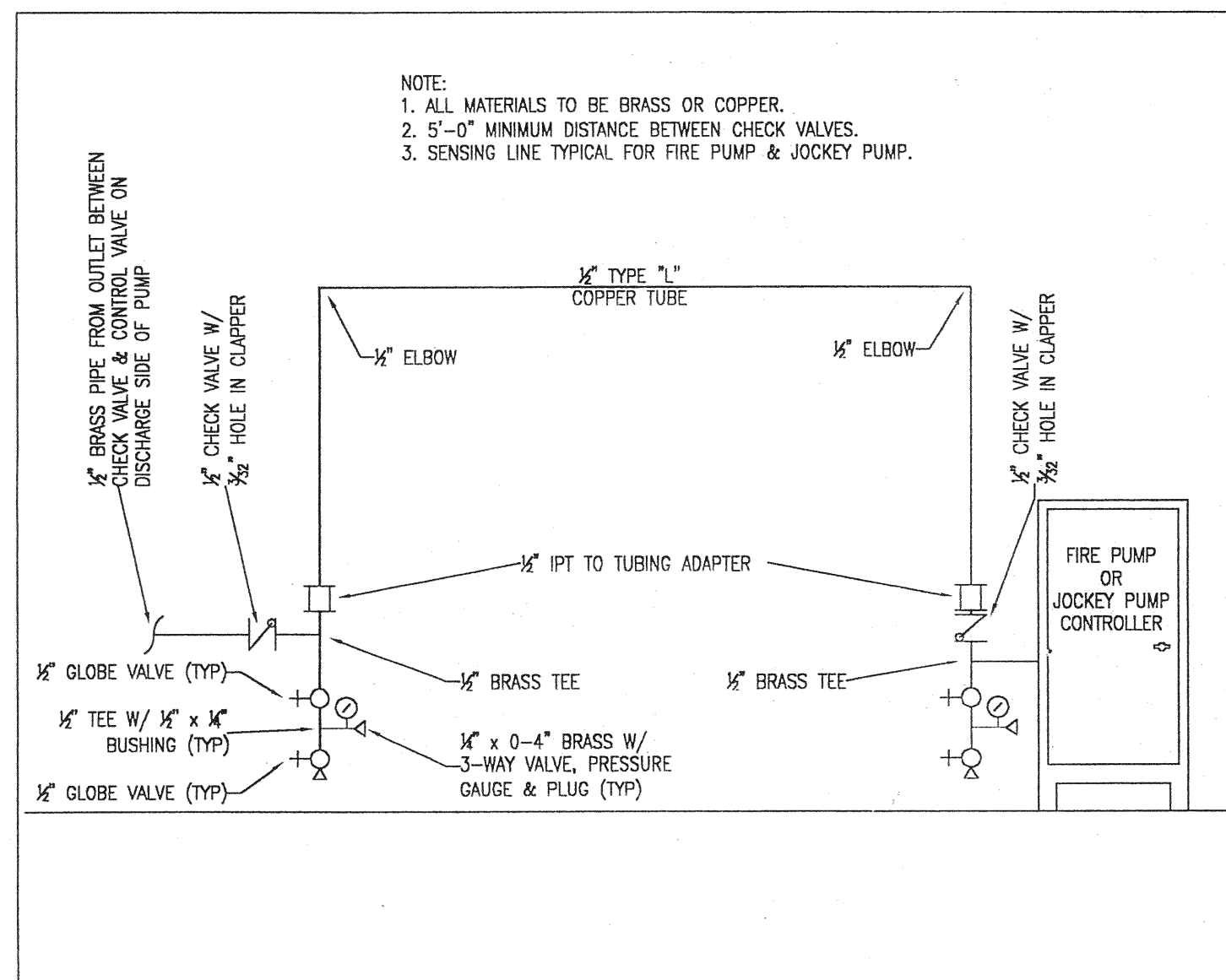
PROJECT NO.: 40838
DRAWN: BEH
DESIGNED: BEH
REVIEWED: DB
APPROVED: DATE 06-11-2006

100% DESIGN REVIEW
REV

DATE 7-11-06
BY

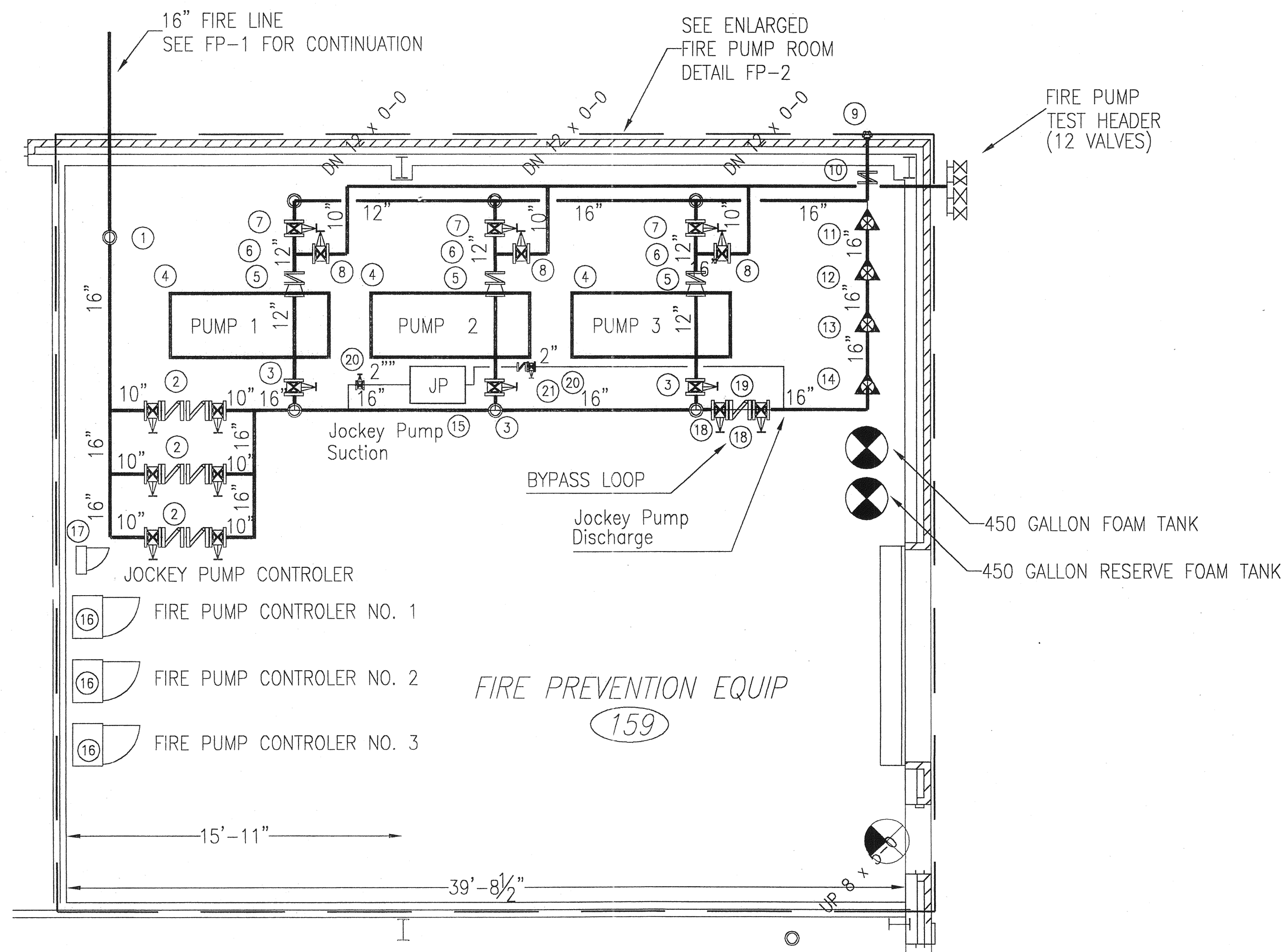
ANDRZEJ RATAJCZYK #42705

FP-1



SENSING LINE DETAIL

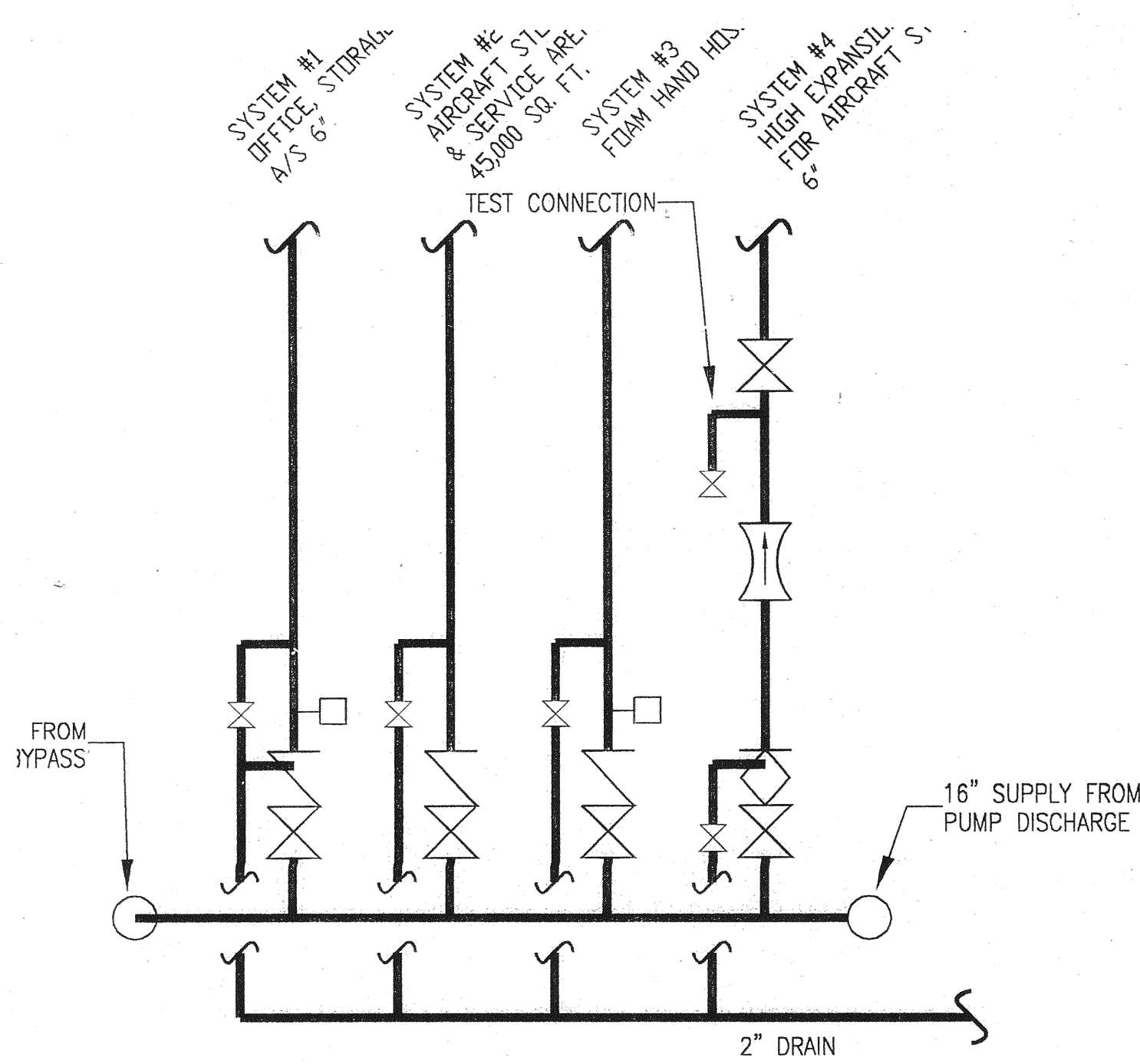
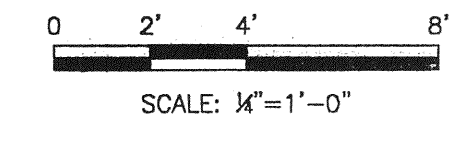
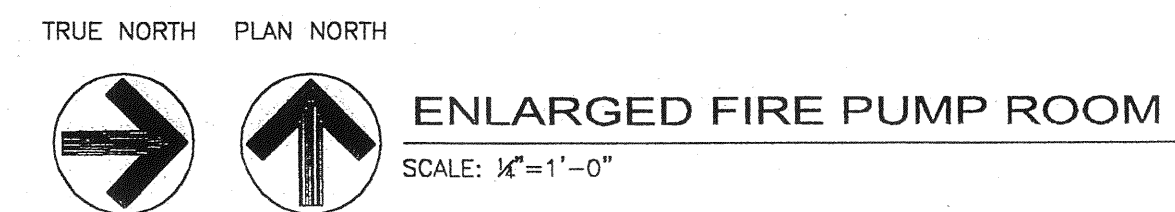
SCALE: NOT TO SCALE



FIRE PUMP KEY NOTES

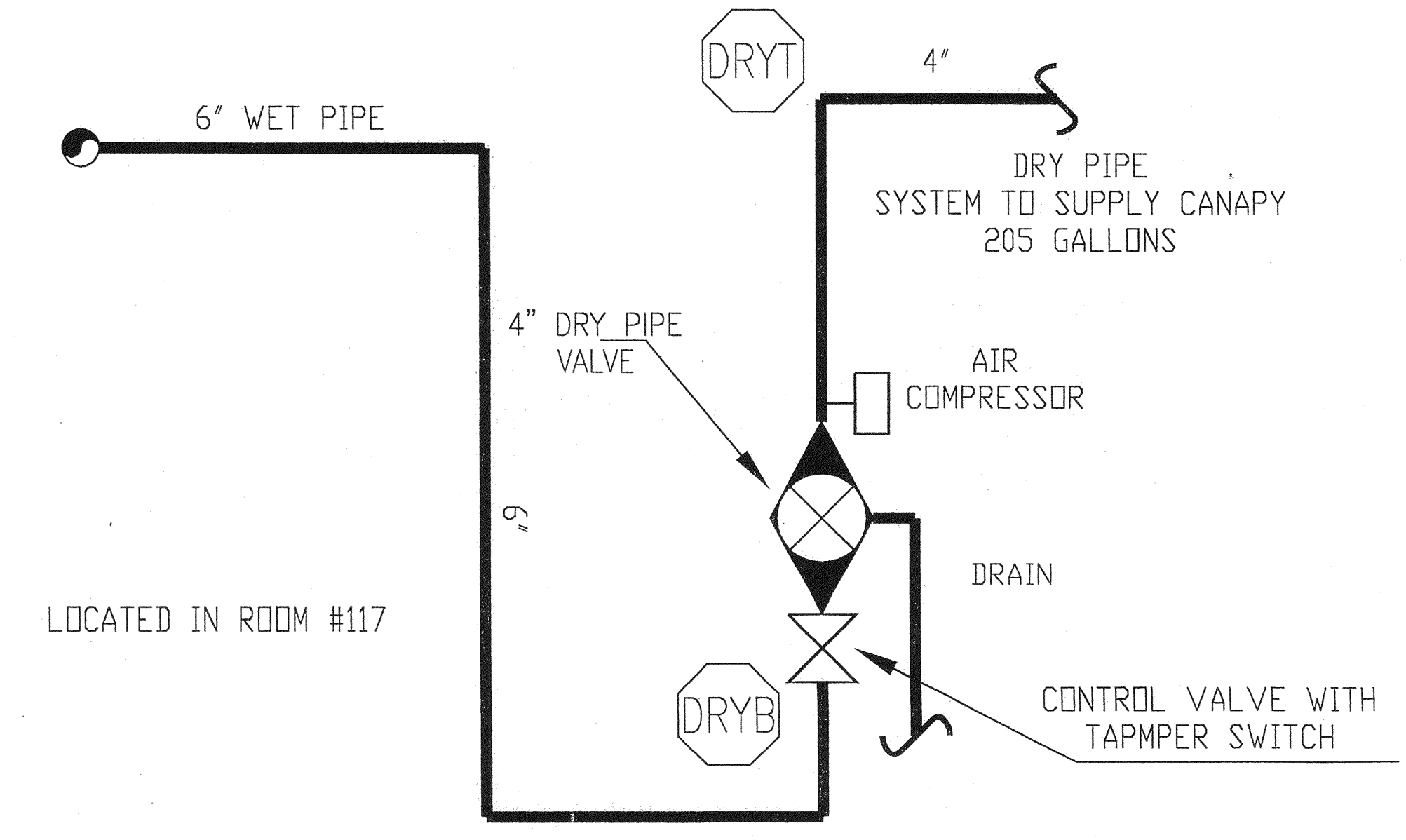
- ① 16" GROOVED 90° ELBOW-SUPPLY LINE
- ② 10" REDUCED PRESSURE BACKFLOW PREVENTOR W/ OS&Y GATE VALVES
- ③ 12" OS&Y GATE VALVE FOR SUCTION SIDE OF FIRE PUMP
- ④ ELECTRIC FIRE PUMP RATED 3000 GPM @ 80 PSI-12" SUCTION & 8" DISCHARGE 200 HP 3 PHASE 60H 480V 1770 RPM
- ⑤ 8"x12" ECCENTRIC REDUCER
- ⑥ 12" GRV CHECK VALVE
- ⑦ 12" GRV BUTTERFLY CONTROL VALVE
- ⑧ 10" GRV BUTTERFLY CONTROL VALVE
- ⑨ 6" X 2 1/2" X 2 1/2" FLUSH MOUNTED FIRE DEPT. CONNECTION
- ⑩ 6" CHECK VALVE
- ⑪ 6" ALARM VALVE WITH GRV BUTTERFLY VALVE W/ TS
- ⑫ 8" ALARM VALVE WITH GRV BUTTERFLY VALVE W/ TS
- ⑬ 3" ALARM VALVE WITH GRV BUTTERFLY VALVE W/ TS
- ⑭ 6" DELUGE VALVE WITH GRV BUTTERFLY VALVE W/ TS
- ⑮ JOCKEY PUMP ON 6" CONCRETE HOUSEKEEPING PAD
- ⑯ FIRE PUMP CONTROLLER
- ⑰ JOCKEY PUMP CONTROLLER
- ⑱ 16" GRV CONTROL VALVE-BY PASS
- ⑲ 16" GRV CHECK VALVE-BY PASS
- ⑳ 2" THD CONTROL VALVE W/ TS
- ㉑ 2" THD CHECK VALVE

NOTE: REFER TO SUBMITTAL DATA FOR FIRE & JOCKEY PUMP RATINGS AND DIMENSIONS.



HEADER DETAIL

SCALE: NTS

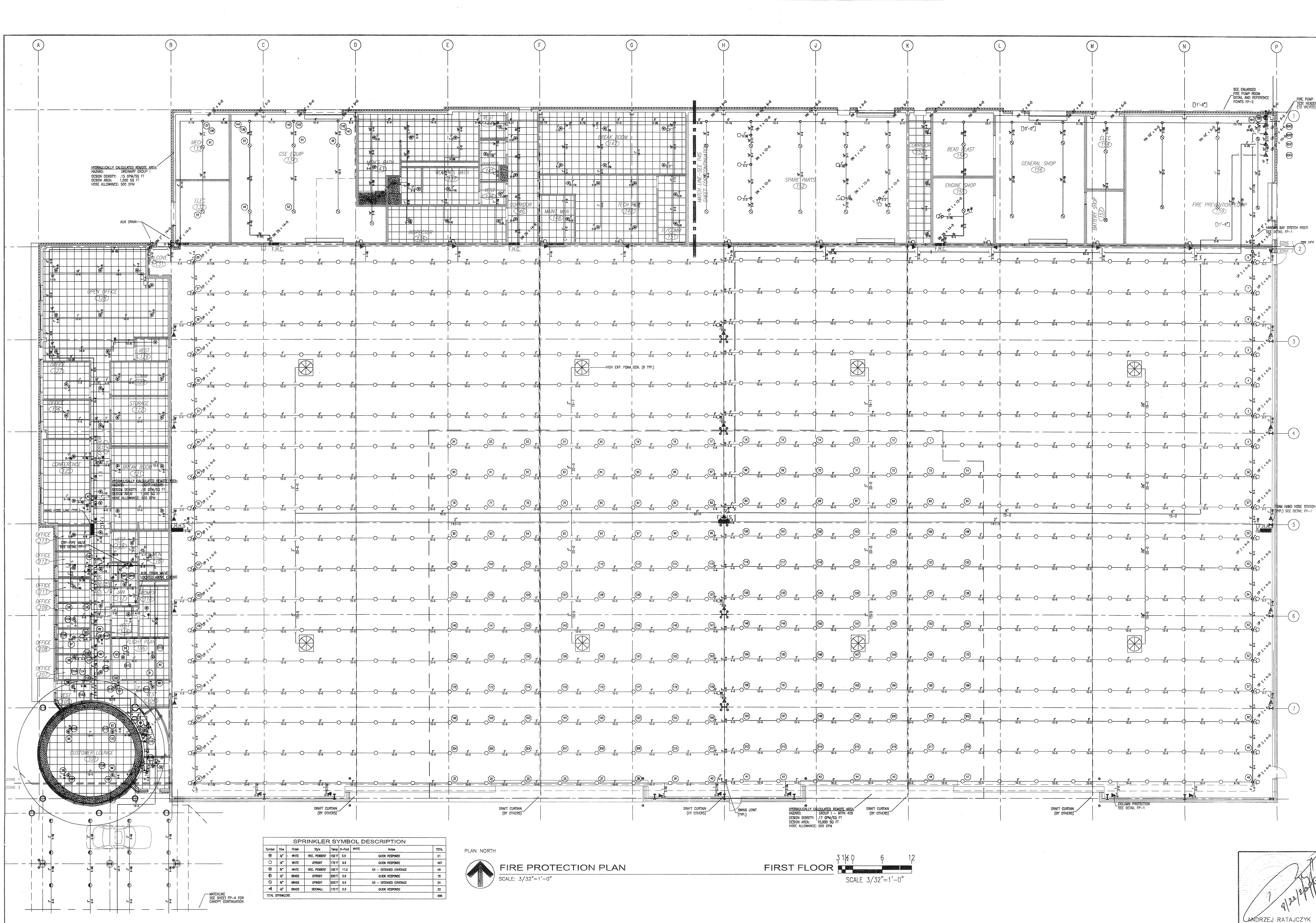


DRY PIPE RISER DETAIL

SCALE: NTS

9/29/2006

ASSOCIATED ENGINEERING CONSULTANTS, Inc.		100% DESIGN REVIEW	REV	DESCRIPTION	DATE	BY
322 STOCKTON STREET GAINESVILLE, FLORIDA 32604 Phone: 352-384-7800 Fax: 352-384-7801 Certificate of Authorization #0007549						
SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY						
GAINESVILLE REGIONAL AIRPORT PUMP ROOM DETAILS						
PROJECT NO:	DRAWN	DESIGNED	REVIEWED	APPROVED	DATE	
40838	BEH	BEH	DB	DB	05-03-06	
GAINESVILLE, FL						
FP-2						



HYDRAULICALLY CALCULATED SEWAGE AREA
 HAZARD: DOMESTIC GROUP 1
 DESIGN DENSITY: 1.5 GPM/50 FT
 DESIGN AREA: 1,200 SQ FT
 HOSE ALLOWANCE: 500 GPM

HYDRAULICALLY CALCULATED SEWAGE AREA
 HAZARD: DOMESTIC GROUP 1
 DESIGN DENSITY: 1.0 GPM/50 FT
 DESIGN AREA: 1,200 SQ FT
 HOSE ALLOWANCE: 500 GPM

HYDRAULICALLY CALCULATED SEWAGE AREA
 HAZARD: DOMESTIC GROUP 1
 DESIGN DENSITY: 1.7 GPM/50 FT
 DESIGN AREA: 15,000 SQ FT
 HOSE ALLOWANCE: 500 GPM

SPRINKLER SYMBOL DESCRIPTION						
Symbol	Size	Finish	Style	Temp	K-Factor	Notes
⊙	1/2"	WHITE	REG. PONDENT	155°F	5.8	QUICK RESPONSE
⊙	1/2"	WHITE	UPRODT	175°F	5.8	QUICK RESPONSE
⊙	1/2"	WHITE	REG. PONDENT	163°F	11.2	OR - EXTENDED COVERAGE
⊙	1/2"	BRASS	UPRODT	200°F	5.8	QUICK RESPONSE
⊙	1/2"	BRASS	UPRODT	200°F	5.8	OR - EXTENDED COVERAGE
⊙	1/2"	BRASS	SMALL	175°F	5.8	QUICK RESPONSE
TOTAL SPRINKLERS						698

PLAN NORTH

FIRE PROTECTION PLAN
 SCALE: 3/32"=1'-0"

FIRST FLOOR
 SCALE 3/32"=1'-0"

MATCHLINE
 SEE SHEET FP-4 FOR
 CONTINUATION

9/22/2006
 ANDRZEJ RATAJCZYK
 #42705

SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY

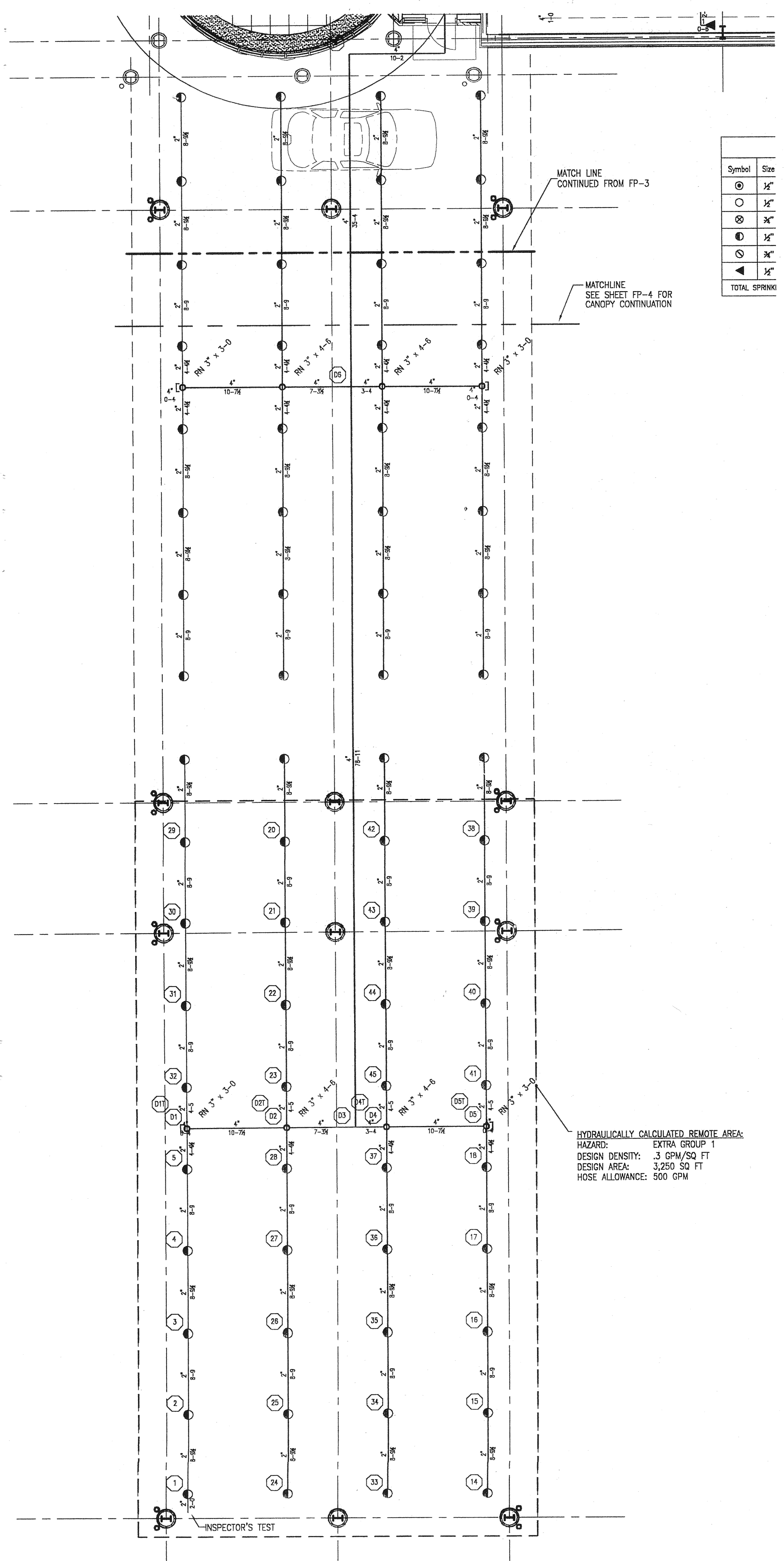
GAINESVILLE REGIONAL AIRPORT
 PROJECT NO: 40838

ASSOCIATED ENGINEERING CONSULTANTS, Inc.
 370 STOCKTON STREET
 JACKSONVILLE, FLORIDA 32204
 Phone: 904-384-1987
 Fax: 904-384-1986
 Certificate of Authorization #00007548

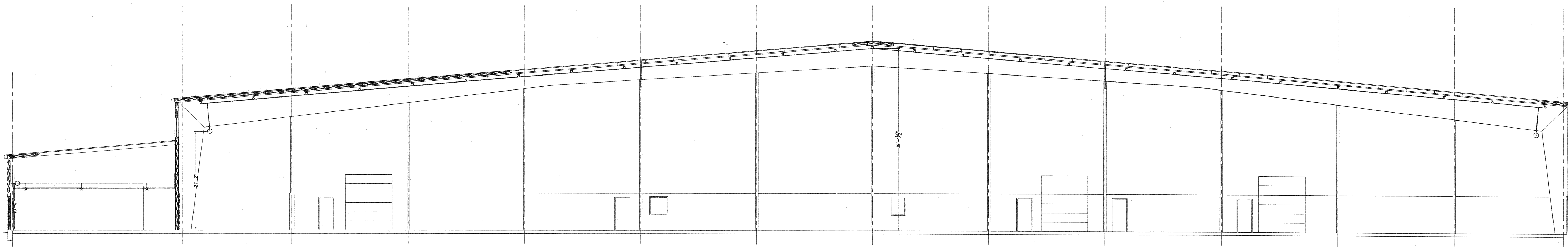
REV	DESCRIPTION	DATE	BY
100%	DESIGN REVIEW	7-11-06	BEH

DATE: 06-11-2006
 APPROVED: [Signature]
 REVIEWED: [Signature]
 DESIGNED: [Signature]
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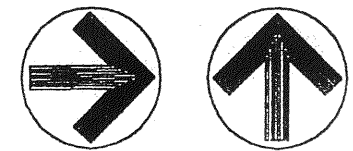
FP-3



Symbol	Size
⊙	1/2"
○	3/4"
⊗	1"
⊘	1 1/2"
⊚	2"
⊛	3"
⊜	4"
⊝	6"
⊞	8"
⊟	10"
⊠	12"
⊡	14"
⊢	16"
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⊵	2616"
⊶	2622"
⊷	2628"
⊸	2634"
⊹	2640"
⊺	2646"
⊻	2652"
⊼	2658"
⊽	2664"
⊾	2670"
⊿	2676"
⊠	2682"
⊡	2688"
⊢	2694"
⊣	2700"
⊤	2706"
⊥	2712"
⊦	2718"
⊧	2724"
⊨	2730"
⊩	2736"
⊪	2742"
⊫	2748"
⊬	2754"
⊭	2760"
⊮	2766"
⊯	2772"
⊰	2778"

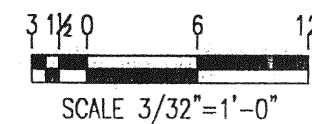


TRUE NORTH PLAN NORTH

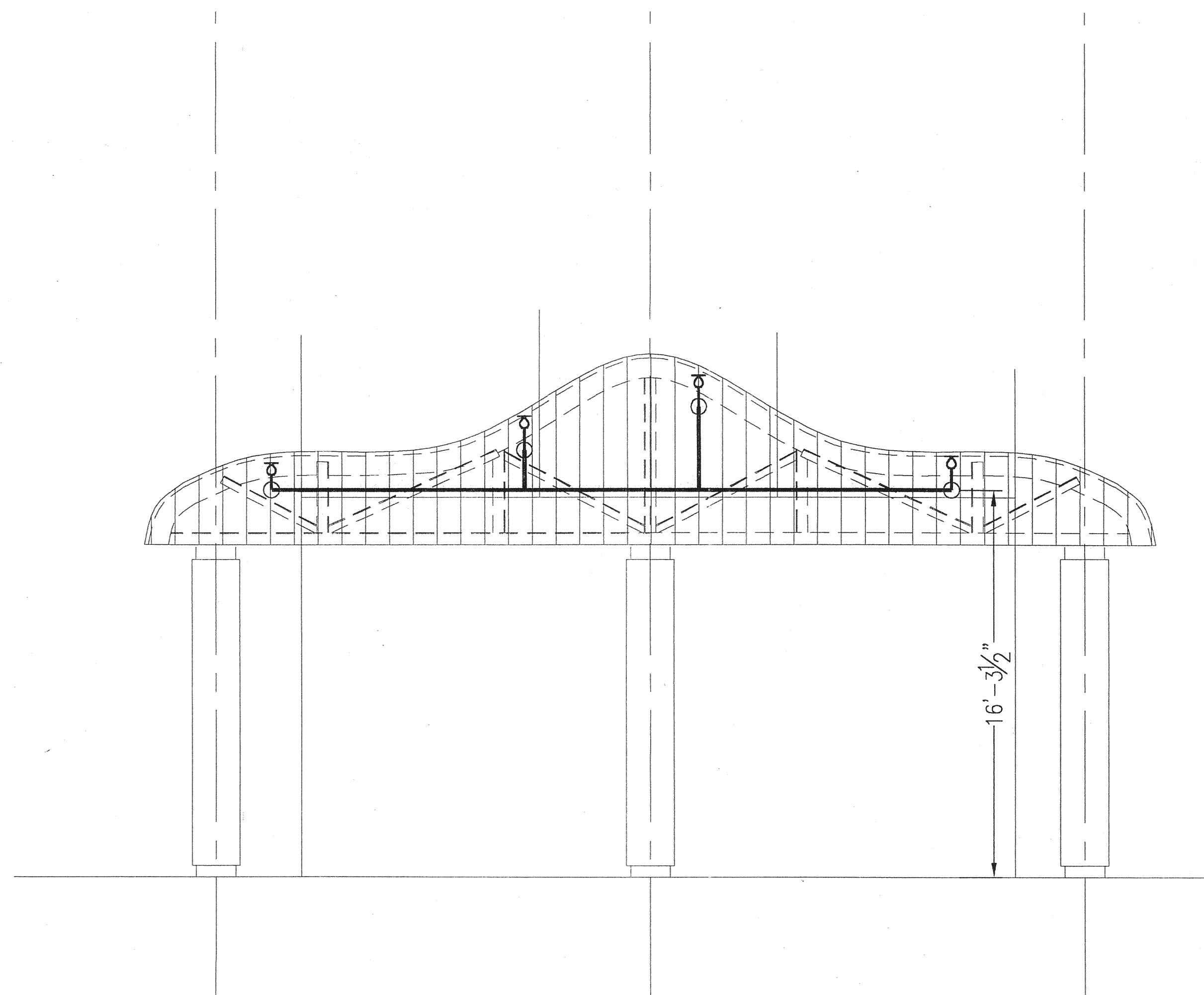


HANGAR SECTION
SCALE: 1/8"=1'-0"

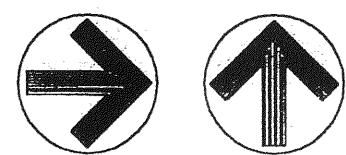
FOR REFERENCE ONLY



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

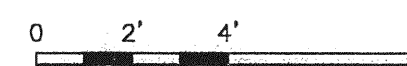


TRUE NORTH PLAN NORTH



CANOPY SECTION
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FOR REFERENCE ONLY



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

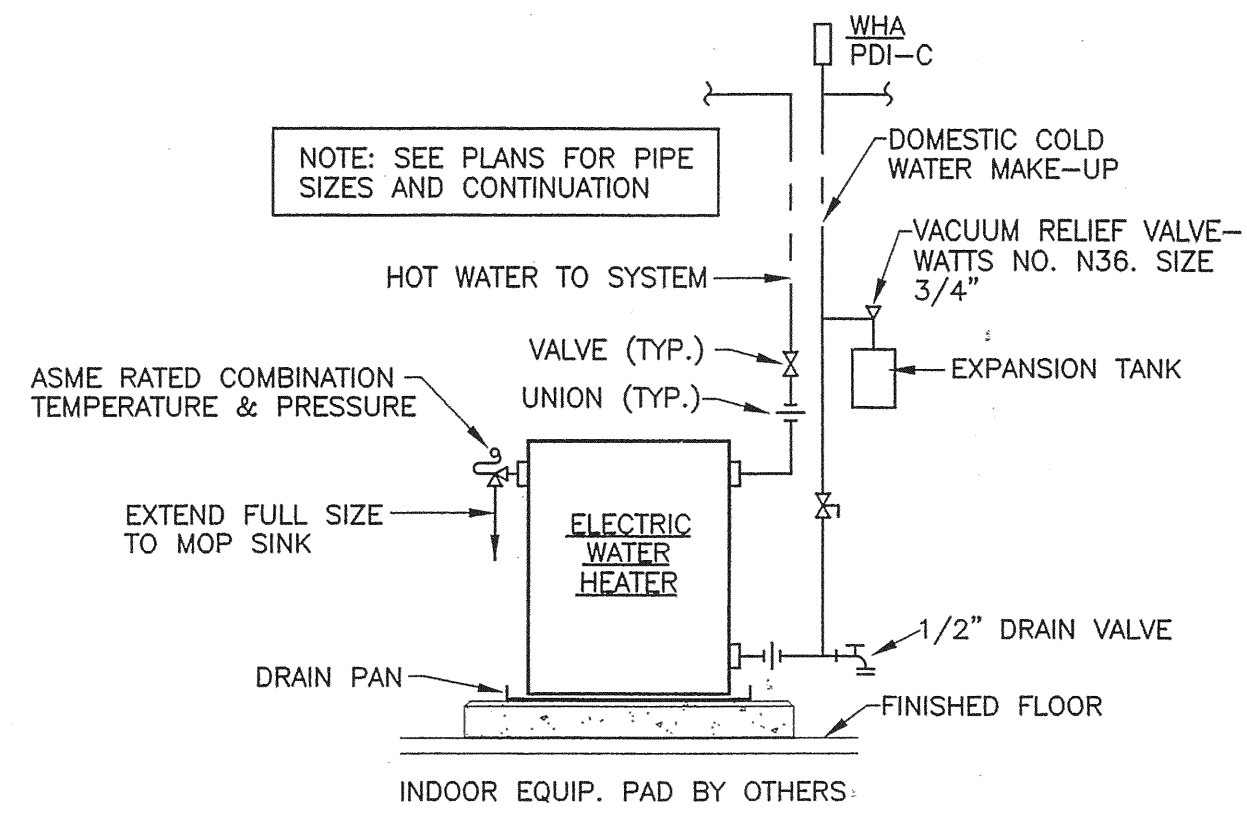
ANDRZEJ RATAJCZYK
 #42705

SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY		DATE	06-11-2006
HANGAR BUILDING & CANOPY SECTION		APPROVED	DB
GAINESVILLE REGIONAL AIRPORT		DESIGNED	BEH
PROJECT NO: 4-0838		DRAWN	BEH
GAINESVILLE, FL		REVIEWED	DB
GAINESVILLE, FL		APPROVED	DB

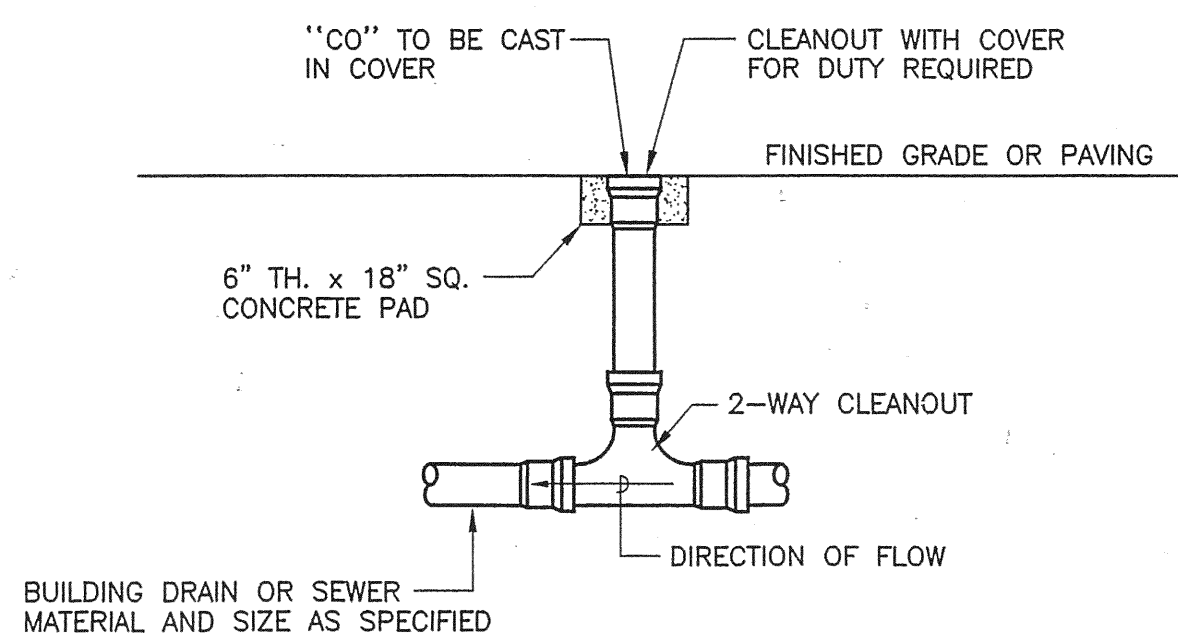
100% DESIGN REVIEW	REV	DESCRIPTION	DATE	BY
			7-11-06	BEH

ASSOCIATED ENGINEERING CONSULTANTS, Inc.
 322 STOCKTON STREET
 JACKSONVILLE, FLORIDA 32204
 Phone: 904-384-7887
 Fax: 904-384-7887
 Email: aei@associatedinc.net
 Certificate of Authorization #00007248

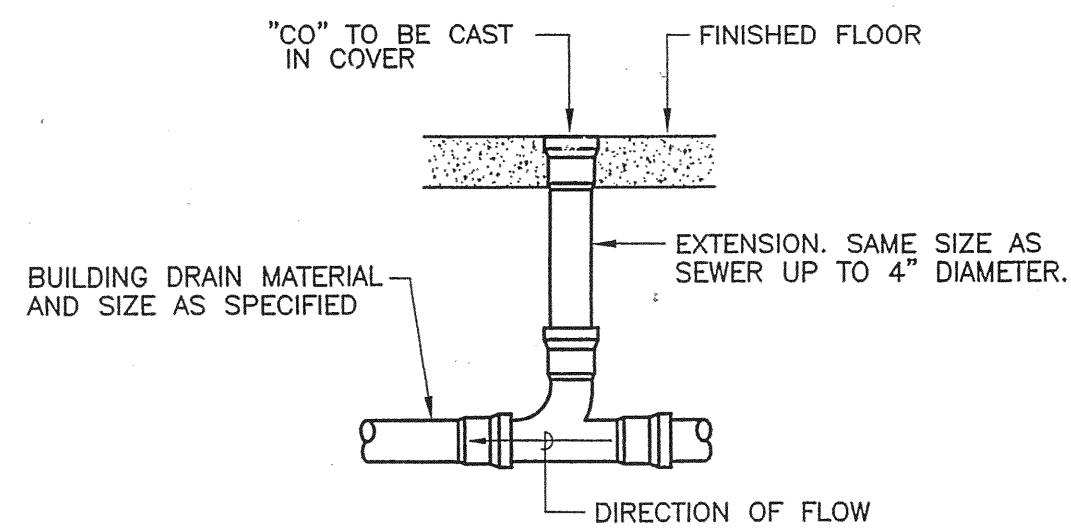
FP-5



WATER HEATER PIPING SCHEMATIC
NO SCALE

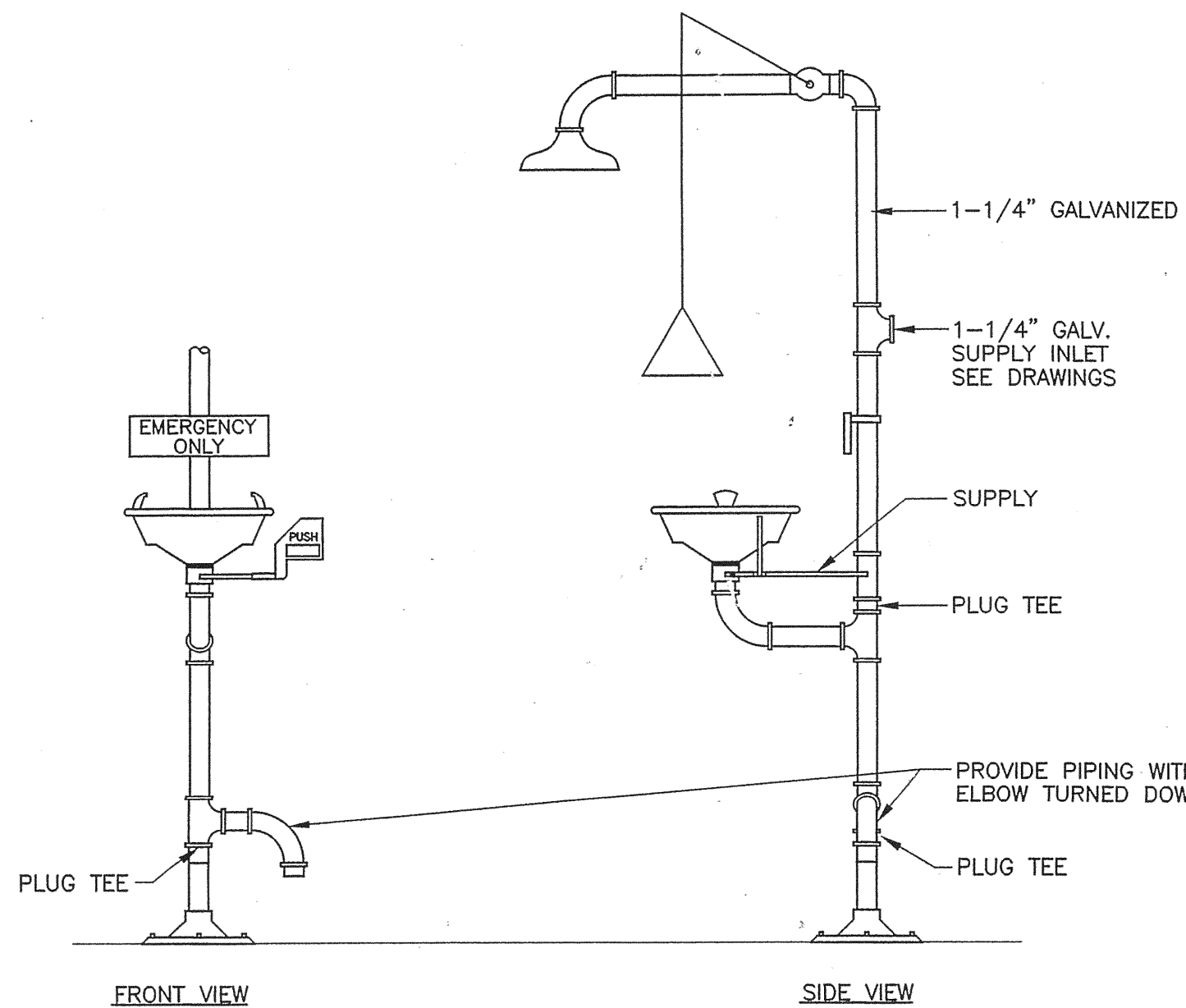


EXTERIOR



INTERIOR

SANITARY/WASTE CLEANOUT DETAIL
NO SCALE



EMERGENCY SHOWER AND EYE WASH DETAIL - ES/EW
NO SCALE (HANDICAP ACCESSIBLE. SAFETY SHOWER SHALL COMPLY WITH ANSI Z358.1 - 1998)

PIPE SCHEDULE

PVC SCHEDULE 40 (UNDERGROUND) SANITARY DRAINAGE, WASTE AND VENT

CAST IRON - NO HUB (ABOVE GROUND) SANITARY DRAINAGE, WASTE VENTS

COPPER - TYPE "L" (ABOVE GROUND) COLD WATER HOT WATER

COPPER - TYPE "K" (UNDERGROUND) COLD WATER

CAST IRON - COMPRESSION FITTINGS (UNDERGROUND) INDUSTRIAL DRAINAGE SYSTEM

CAST IRON - NO HUB (ABOVE GROUND) INDUSTRIAL DRAINAGE SYSTEM

TRANSAIR COMPRESSED AIR SYSTEM

PLUMBING LEGEND

—	SANITARY WASTE PIPING	—	HOSE BIBB
---	SANITARY VENT PIPING	SOV	SHUT-OFF VALVE
---	DOMESTIC COLD WATER PIPING	F.D.	FLOOR DRAIN WITH TP
---	DOMESTIC HOT WATER PIPING (110°F. MAX. TEMP. UNLESS NOTED OTHERWISE)	D.W.	DISHWASHER
V	VENT	REF.	REFRIGERATOR
W	WASTE	●	POINT OF CONNECTION FOR NEW WORK
HB	HOSE BIBB	SH-	SHOWER
BG	BELOW GRADE	SD-	SHOWER DRAIN
EW	ELECTRIC WATER HEATER	ABV	ABOVE
WHA PDI-A	WATER HAMMER ARRESTOR WITH PDI WH201	AFF	ABOVE FINISHED FLOOR
T.P.	TRAP PRIMER	TP	TRAP PRIMER
GCO	GRADE CLEANOUT	TD	TRENCH DRAIN
FCO	FLOOR CLEANOUT	AD	AREA DRAIN
WCO	WALL CLEANOUT	ADA	ACCESSIBLE
HYD	WALL HYDRANT	WF	WASH FOUNTAIN
WC-	WATER CLOSET	ESEW	EMERGENCY SHOWER EYE WASH
UR-	URINAL	CI	CAST IRON
L-	LAVATORY	CA	COMPRESSED AIR
S-	SINK	→	COMPRESSED AIR OUTLET
EWC-	ELECTRIC WATER COOLER		
MS	MOP SINK		
WSFU	WATER SUPPLY FIXTURE UNITS		
DFU	DRAINAGE FIXTURE UNITS		

GENERAL NOTES

- ALL COPPER PIPING UNDER CONCRETE FLOOR SLABS OR IN MASONRY WALLS SHALL HAVE VINYL SLEEVES UNBROKEN FOR THE FULL LENGTH OF THE PIPE. ISOLATE ALL COPPER PIPING FROM THE PIPE HANGERS AND OF ANY DISSIMILAR MATERIALS.
- CONTRACTOR TO VERIFY ALL SINK ROUGH-IN LOCATIONS WITH MILLWORK SHOP DRAWINGS.
- SANITARY, WATER AND VENT PIPING 3" OR LARGER SHALL SLOPE 1/8" PER FOOT UNLESS OTHERWISE NOTED. PIPING LESS THAN 3" SHALL SLOPE 1/4" PER FOOT. CONTRACTOR SHALL DETERMINE INVERT AND DISTANCED PRIOR TO INSTALLATION.
- VENT PIPES THROUGH ROOF SHALL BE OFFSET A MINIMUM OF 5'-0" FROM ALL PARAPET AND VERTICAL WALLS AND EDGE OF ROOF. VENT TERMINATION SHALL BE MINIMUM OF 15'-0" FROM ANY HVAC OUTSIDE AIR INTAKE(S).
- WHERE FLOOR DRAINS ARE INSTALLED, THE FLOOR SHALL BE SLOPED TOWARD THE DRAIN. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DETAILS.
- PROVIDE CHROMIUM PLATED STOPS AT ALL PLUMBING FIXTURES.
- COORDINATE PIPING LOCATIONS WITH STRUCTURAL, HVAC AND ELECTRICAL TRADES. DETERMINE PIPING LOCATIONS AND CONFIGURATIONS WITH ALL OTHER TRADES PRIOR TO FABRICATION. CONTRACTOR SHALL VERIFY THAT ALL PIPING IS LOCATED TO MISS ELECTRICAL LIGHT FIXTURES, AND CONDUITS, HVAC DUCTWORK, REFRIGERANT AND DRAIN LINES, ETC.
- PLUMBING CONTRACTOR MUST COORDINATE WITH HVAC CONTRACTOR FOR EXACT LOCATION OF FLOOR DRAIN LINES FOR AIR CONDITIONING EQUIPMENT.
- WATER HEATERS MUST BEAR "ASHRAE" LABEL INDICATING COMPLIANCE WITH "ASHRAE-90". PROVIDE HEAT TRAPS AND DIELECTRIC UNIONS.
- PLUMBING FIXTURES LIMITATIONS: 2.5 GPM FOR SHOWER HEADS; 2.5 GPM FOR LAVATORIES; 1.6 GPM FOR TOILETS. HOT WATER TO LAVATORIES SHALL BE LIMITED TO 110 DEGREES F.
- PROVIDE PRESSURE RELIEF VALVES ON ALL WATER HEATERS.
- PLUMBING CONTRACTOR SHALL CONFORM TO 2004 FLORIDA BUILDING CODE AND LOCAL CODES, ORDINANCES, ETC.
- CHROME PLATED BRASS ESCUTCHEONS SHALL BE REQUIRED AT ALL FINISHED WALL PIPE PENETRATIONS.
- WALL HYDRANTS SHOWN ON OUTSIDE OF BUILDING ARE TO BE MOUNTED 26" ABOVE GRADE.
- VERIFY LOCATION OF ALL ACCESSIBLE PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS.
- PLUMBING CONTRACTOR TO TERMINATE DOMESTIC WATER, INDUSTRIAL WASTE AND SANITARY LINES, 60" OUTSIDE OF BUILDING LINE, MAKE FINAL CONNECTIONS. VERIFY ALL INVERT BEFORE INSTALLING PIPING.
- PIPING AS SHOWN ON ALL RISER DIAGRAMS ARE DIAGRAMMATIC, CONTRACTOR IS RESPONSIBLE FOR ALL FITTINGS AND CONNECTIONS AS REQUIRED FOR A COMPLETE INSTALLATION.
- ALL PIPING SYSTEMS MUST BE CLEANED AND TESTED PRIOR TO BEING BEING PLACED INTO SERVICE.
- DO NOT RUN PIPING THROUGH ELECTRICAL EQUIPMENT SPACES.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE TYPE	DESCRIPTION	CW SIZE	HW SIZE	SAN SIZE	VENT SIZE	REMARKS
WC-1	WATER CLOSET	1"	---	4"	2"	WALL HUNG, FLUSH VALVE
WC-2	WATER CLOSET	1"	---	4"	2"	WALL HUNG, FLUSH VALVE, ACCESSIBLE
UR-1	URINAL	3/4"	---	2"	2"	WALL HUNG, FLUSH VALVE
UR-2	URINAL	3/4"	---	2"	2"	WALL HUNG, FLUSH VALVE, ACCESSIBLE
L-1	LAVATORY	3/8"	3/8"	1-1/4"	2"	COUNTER MOUNTED, ACCESSIBLE
L-2	LAVATORY	3/8"	3/8"	1-1/4"	2"	UNDERCOUNTER, ACCESSIBLE
L-3	LAVATORY	3/8"	3/8"	1-1/4"	2"	WALL MOUNTED, ACCESSIBLE
S-1	SINK	3/8"	---	1-1/2"	2"	STAINLESS DOUBLE COUNTER MOUNTED, ACCESSIBLE
S-2	SINK	3/8"	---	1-1/2"	2"	STAINLESS SINGLE COUNTER MOUNTED
MS	MOP SINK	1/2"	1/2"	3"	2"	FLOOR MOUNTED, TERRAZZO
SH-1	SHOWER	1/2"	1/2"	---	---	MIXING VALVE, SHOWER, ACCESSIBLE
EWC-1	ELECTRIC WATER COOLER	3/8"	---	1-1/4"	2"	WALL MOUNT ACCESSIBLE
EWC-2	ELECTRIC WATER COOLER	3/8"	---	1-1/4"	2"	WALL MOUNT
HYD	WALL HYDRANT	3/4"	---	---	---	RECESSED FREEZELESS
HB	HOSE BIBB	3/4"	---	---	---	
WF	WASH FOUNTAIN - 4 STATION	1/2"	1/2"	2"	2"	54" SEMI-CIRCULAR, FOOT CONTROL
ESEW	EMERGENCY SHOWER EYE WASH	1-1/4"	---	---	---	
ACAD TANK	ACID NEUTRALIZING TANK	---	---	1-1/2"	2"	5 GALLON, SINK AND TRIM BY OTHERS
SD	SHOWER DRAIN	---	---	2"	2"	
FD	FLOOR DRAIN	---	---	3"	2"	DEEP SEAL TRAP WITH TP
TD	TRENCH DRAIN	---	---	8"	4"	12" CUSTOM SECTIONAL 150 FEET LONG
AD	AREA DRAIN	---	---	6"	3"	24" x 24" CI GRATE

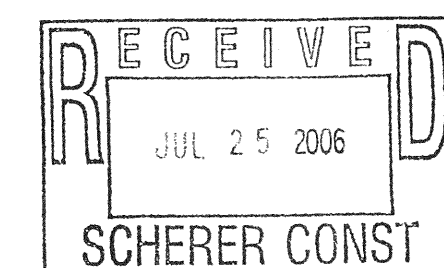
COMPRESSED AIR SYSTEM SCHEDULE

UNIT DESIGNATION	TYPE	CFM	PRESSURE PSIG	RECEIVER		MOTOR			WEIGHT	MANUFACTURER		REMARKS
				GALLONS	DIAMETER	HP	RPM	VOLTS-PH-HZ		NAME	MODEL	
AC	AIR COOLED	143	150	500	36 IN.	40	VARIABLE	460-3-60	1,333 LBS	ALLEGRO	SCD40256	①

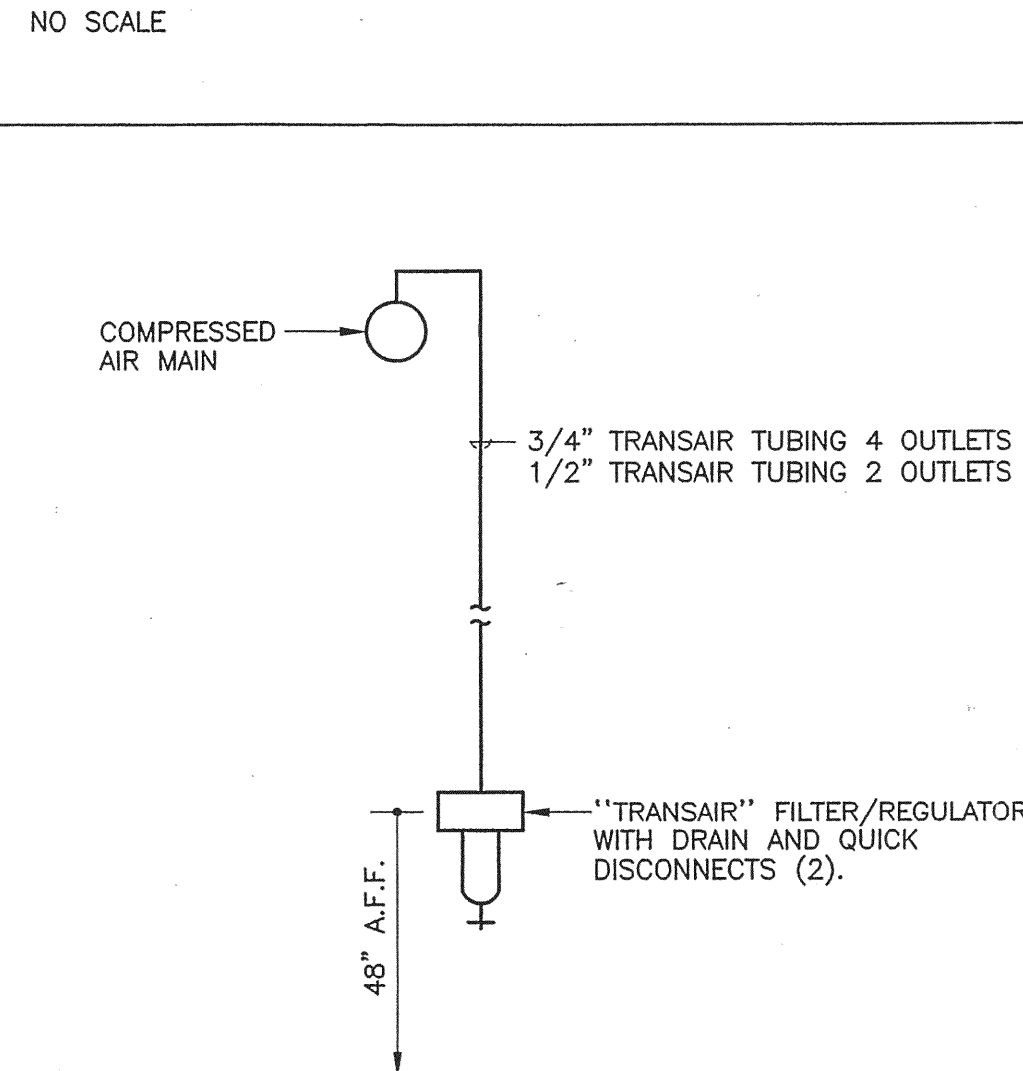
① REFRIGERATED DRYER DONALDSON MODEL SD/WA-0175AP-60, 175 CFM CAPACITY, 230 VOLT-1PH, 3/4 HP, 1.11 KW.

WATER HEATER SCHEDULE

UNIT NUMBER	MANUFACTURER AND MODEL NUMBER	STORAGE CAPACITY GALLONS	REC. RATE @ 90° RISE	KWH INPUT	ELECTRICAL DATA			REMARKS
					VOLT.	PHASE	HZ.	
EW-1	STATE SES640 ROOM 117	40	21	4.5	208	1	60	PROVIDE PAN AND EXPANSION TANK
EW-2	STATE SES650 ROOM 145	50	21	4.5	208	1	60	PROVIDE PAN AND EXPANSION TANK



ACID WASTE PIPING DETAIL



COMPRESSED AIR DROP DETAIL
NO SCALE

100% REVIEW DOCUMENTS

QUALITY PLUMBING INC.

6312 NW 18TH DRIVE, GAINESVILLE, FLORIDA
TEL. NO. 352-377-1009

Cadwallader & Associates, Inc.
CONSULTING ENGINEERS
3456 S.W. 42ND AVE. GAINESVILLE, FLORIDA
TEL. NO. 352-376-0520/0890
FAX NO. 352-375-8377

ECLIPSE AVIATION
GAINESVILLE, FLORIDA

REV 7/11/06 100%
REV 5/18/06 ADA

DATE: 5/1/06

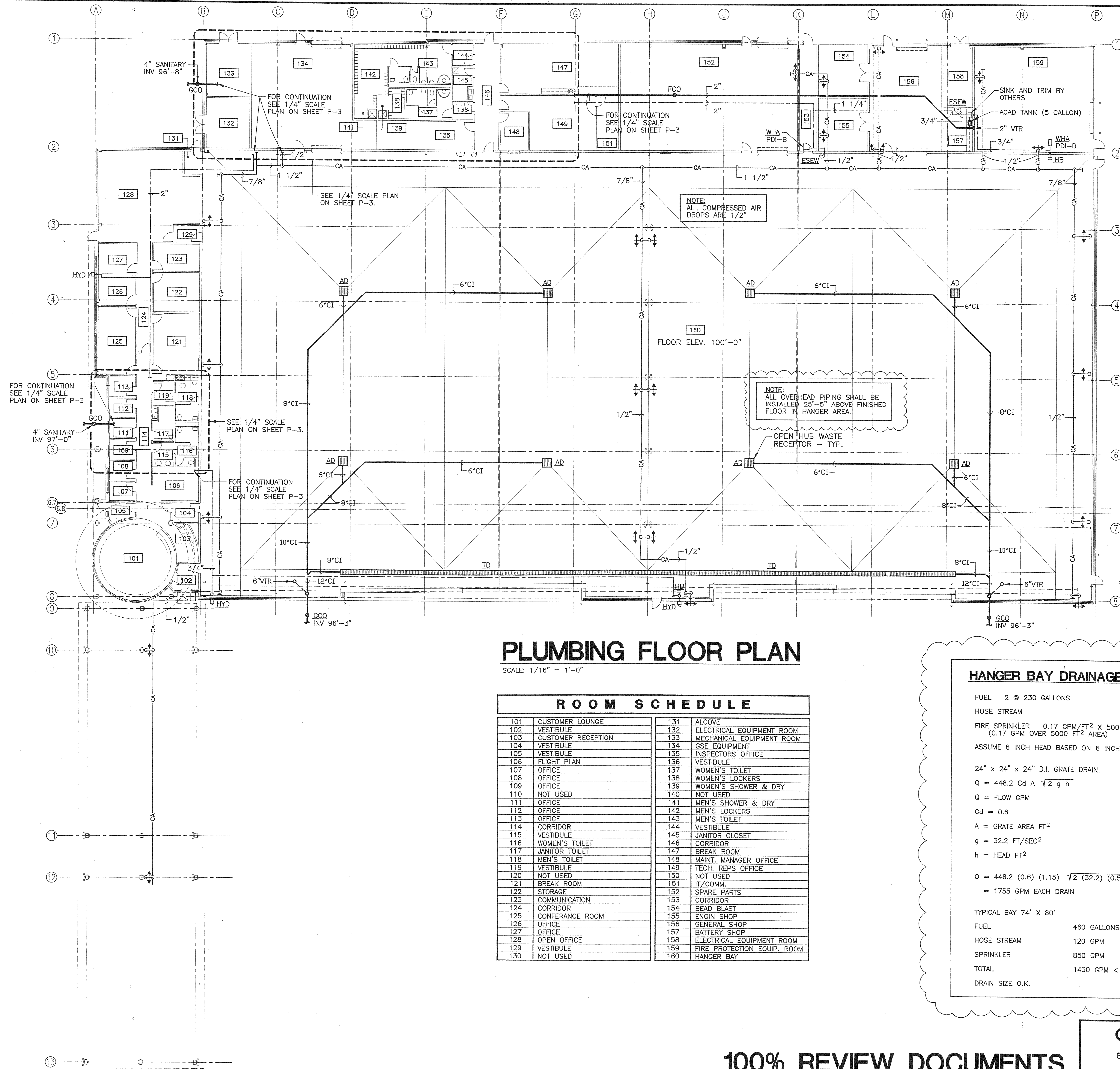
DRAWN: JRW

APPROVED: MSC

0610

P-1

OF SHEETS 3



PLUMBING FLOOR PLAN

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

ROOM SCHEDULE	
101	CUSTOMER LOUNGE
102	VESTIBULE
103	CUSTOMER RECEPTION
104	VESTIBULE
105	VESTIBULE
106	FLIGHT PLAN
107	OFFICE
108	OFFICE
109	OFFICE
110	NOT USED
111	OFFICE
112	OFFICE
113	OFFICE
114	CORRIDOR
115	VESTIBULE
116	WOMEN'S TOILET
117	JANITOR TOILET
118	MEN'S TOILET
119	VESTIBULE
120	NOT USED
121	BREAK ROOM
122	STORAGE
123	COMMUNICATION
124	CORRIDOR
125	CONFERENCE ROOM
126	OFFICE
127	OFFICE
128	OPEN OFFICE
129	VESTIBULE
130	NOT USED
131	ALCOVE
132	ELECTRICAL EQUIPMENT ROOM
133	MECHANICAL EQUIPMENT ROOM
134	GSE EQUIPMENT
135	INSPECTOR'S OFFICE
136	VESTIBULE
137	WOMEN'S TOILET
138	WOMEN'S LOCKERS
139	WOMEN'S SHOWER & DRY
140	NOT USED
141	MEN'S SHOWER & DRY
142	MEN'S LOCKERS
143	MEN'S TOILET
144	VESTIBULE
145	JANITOR CLOSET
146	CORRIDOR
147	BREAK ROOM
148	MAINT. MANAGER OFFICE
149	TECH. REPS OFFICE
150	NOT USED
151	IT/COMM.
152	SPARE PARTS
153	CORRIDOR
154	BEAD BLAST
155	ENGIN SHOP
156	GENERAL SHOP
157	BATTERY SHOP
158	ELECTRICAL EQUIPMENT ROOM
159	FIRE PROTECTION EQUIP. ROOM
160	HANGER BAY

HANGER BAY DRAINAGE CALCULATIONS:

FUEL 2 @ 230 GALLONS 460 GALLONS
 HOSE STREAM 120 GPM
 FIRE SPRINKLER 0.17 GPM/FT² X 5000 FT² (0.17 GPM OVER 5000 FT² AREA) 850 GPM

ASSUME 6 INCH HEAD BASED ON 6 INCH SLOPE TO DRAINS.

24" x 24" x 24" D.I. GRATE DRAIN.
 $Q = 448.2 Cd A \sqrt{2} g h$
 $Q =$ FLOW GPM
 $Cd = 0.6$
 $A =$ GRATE AREA FT²
 $g = 32.2$ FT/SEC²
 $h =$ HEAD FT²

$Q = 448.2 (0.6) (1.15) \sqrt{2} (32.2) (0.5)$
 $= 1755$ GPM EACH DRAIN

TYPICAL BAY 74' X 80'

FUEL 460 GALLONS
 HOSE STREAM 120 GPM
 SPRINKLER 850 GPM
 TOTAL 1430 GPM < 1755
 DRAIN SIZE O.K.

Cadwallader & Associates, Inc.
 CONSULTING ENGINEERS
 3456 S.W. 42ND AVE. GAINESVILLE, FLORIDA
 TEL. NO. 352-376-0520/0890 FAX NO. 352-375-8377

ECLIPSE AVIATION
 GAINESVILLE, FLORIDA

REV 7/11/06 100%
 REV 5/18/06 ADA

DATE: 5/1/06
 DRAWN: JRW
 APPROVED: MSC

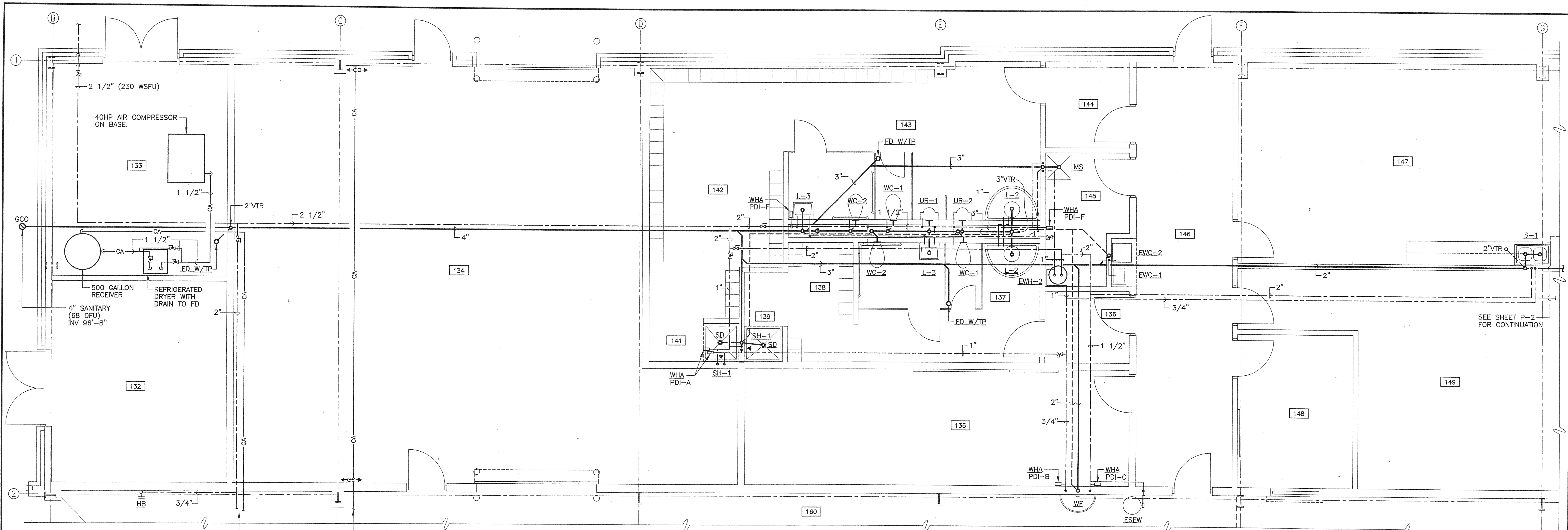
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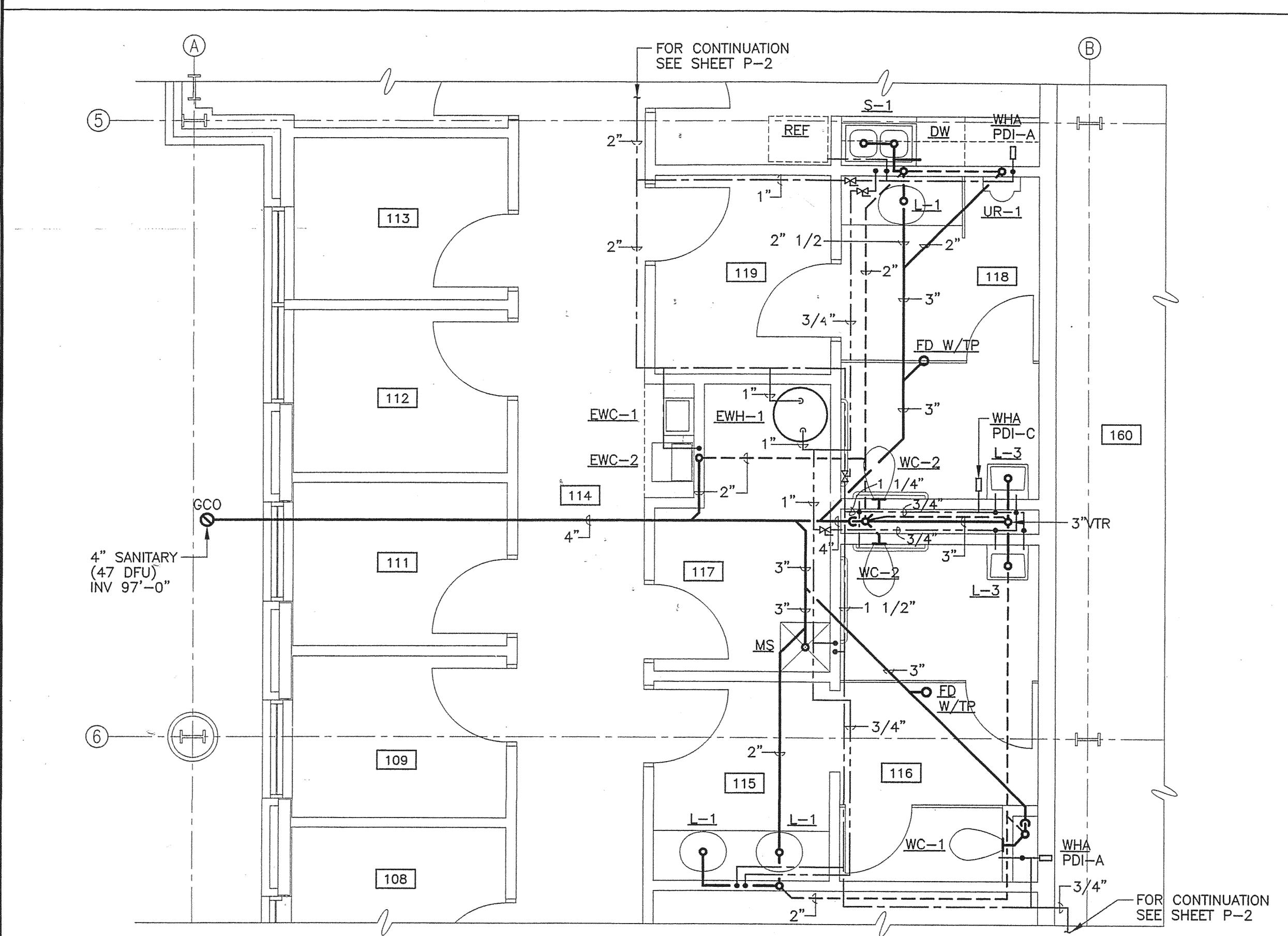
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100% REVIEW DOCUMENTS

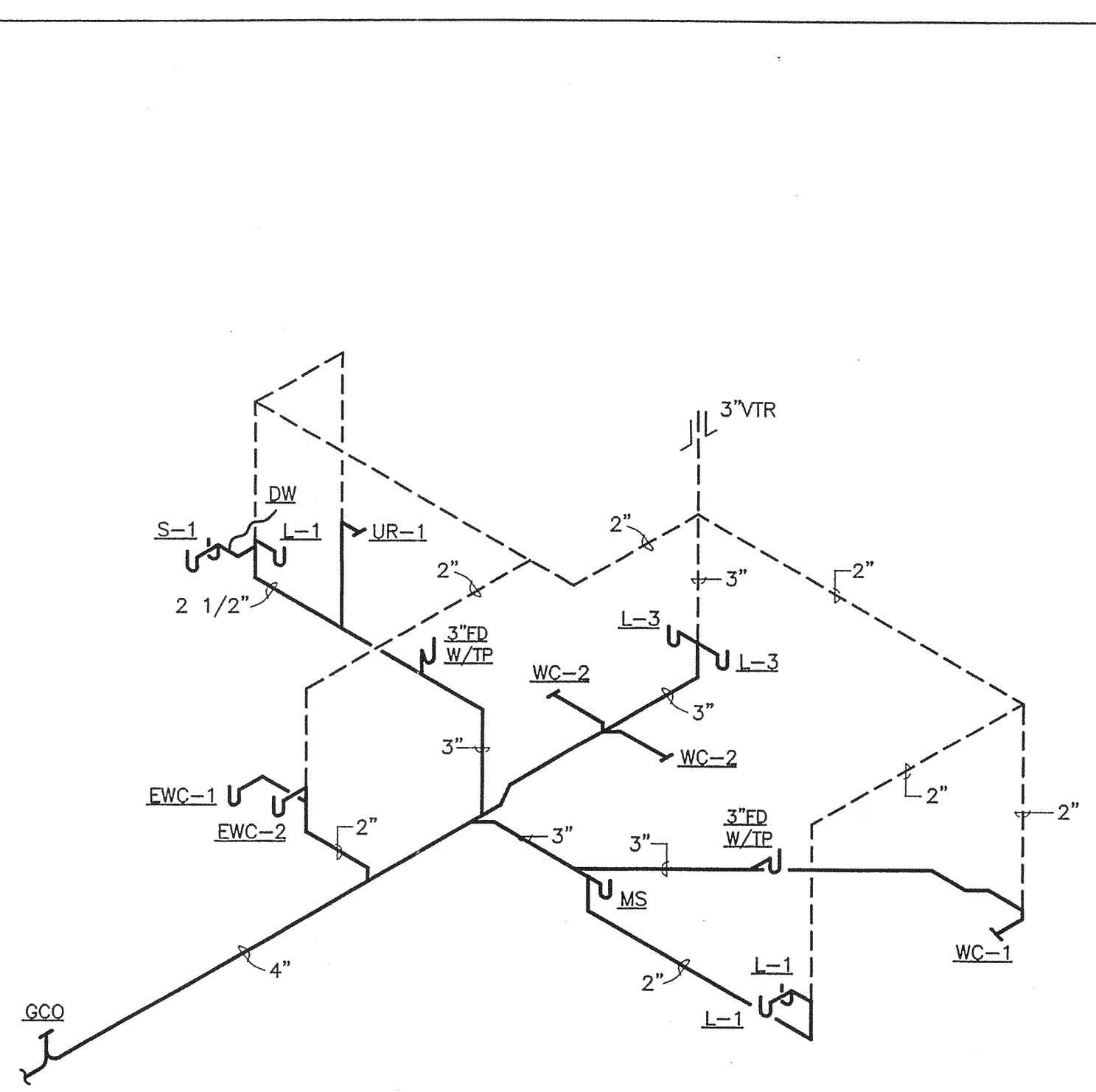
QUALITY PLUMBING INC.
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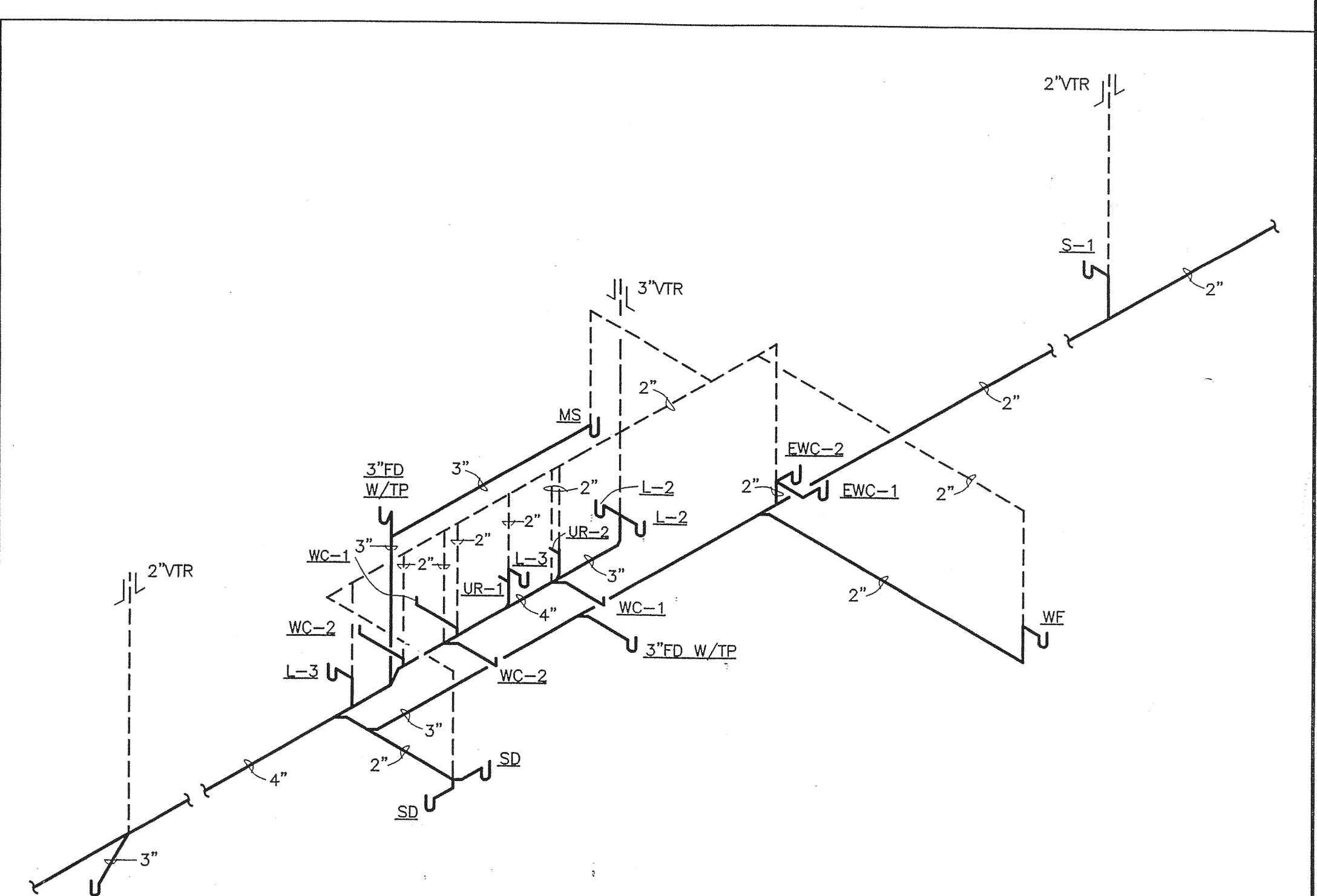
ENLARGED PARTIAL PLUMBING FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 WEST OFFICE AREA



ENLARGED PARTIAL PLUMBING FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 SOUTH OFFICE AREA



SANITARY, WASTE AND VENT RISER
 NO SCALE
 SOUTH OFFICE AREA



SANITARY, WASTE AND VENT RISER
 NO SCALE
 WEST OFFICE AREA

100% REVIEW DOCUMENTS

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 6312 NW 18TH DRIVE, GAINESVILLE, FLORIDA
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Cadwalader & Associates, Inc.
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 TEL. NO. 352-378-0520/0890 FAX NO. 352-378-8377

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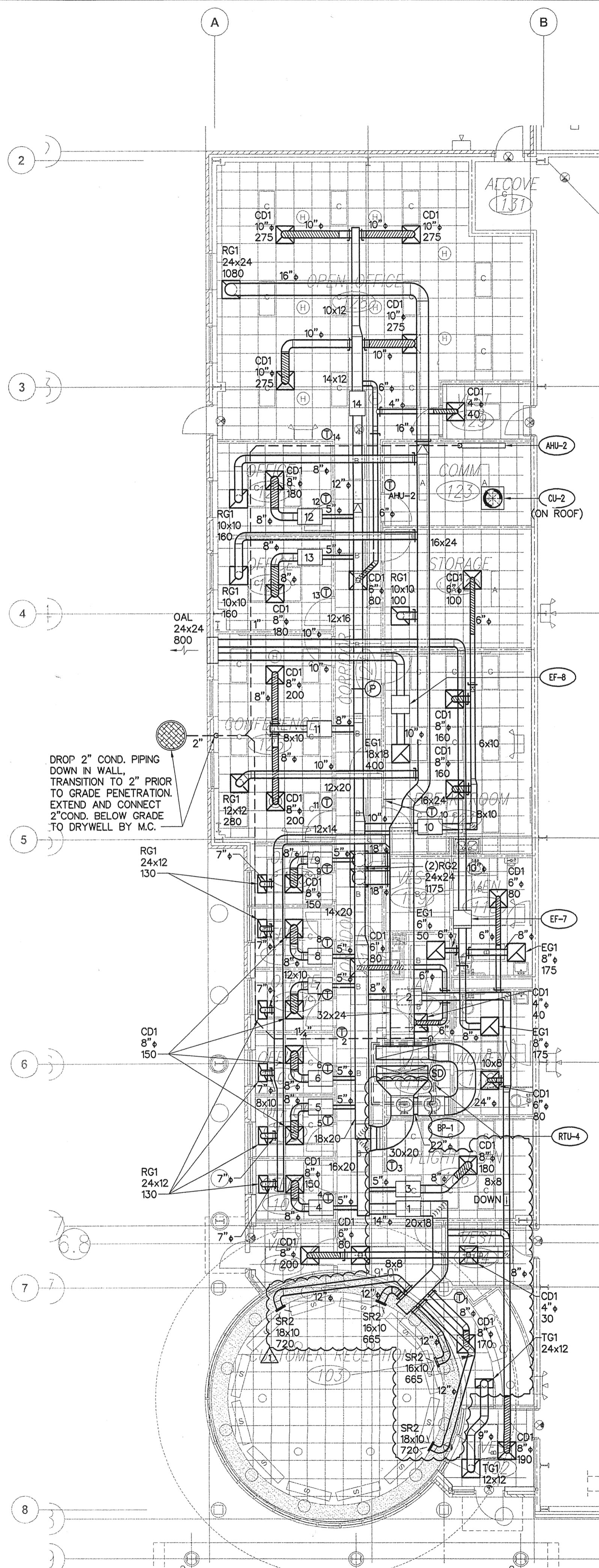
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 REV 5/18/06 ADA

DATE: 5/1/06
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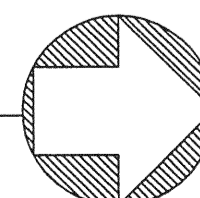
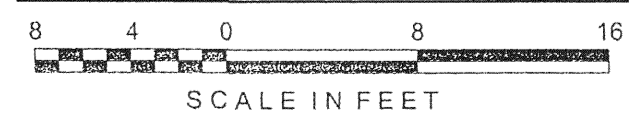
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P-3

OF 3 SHEETS



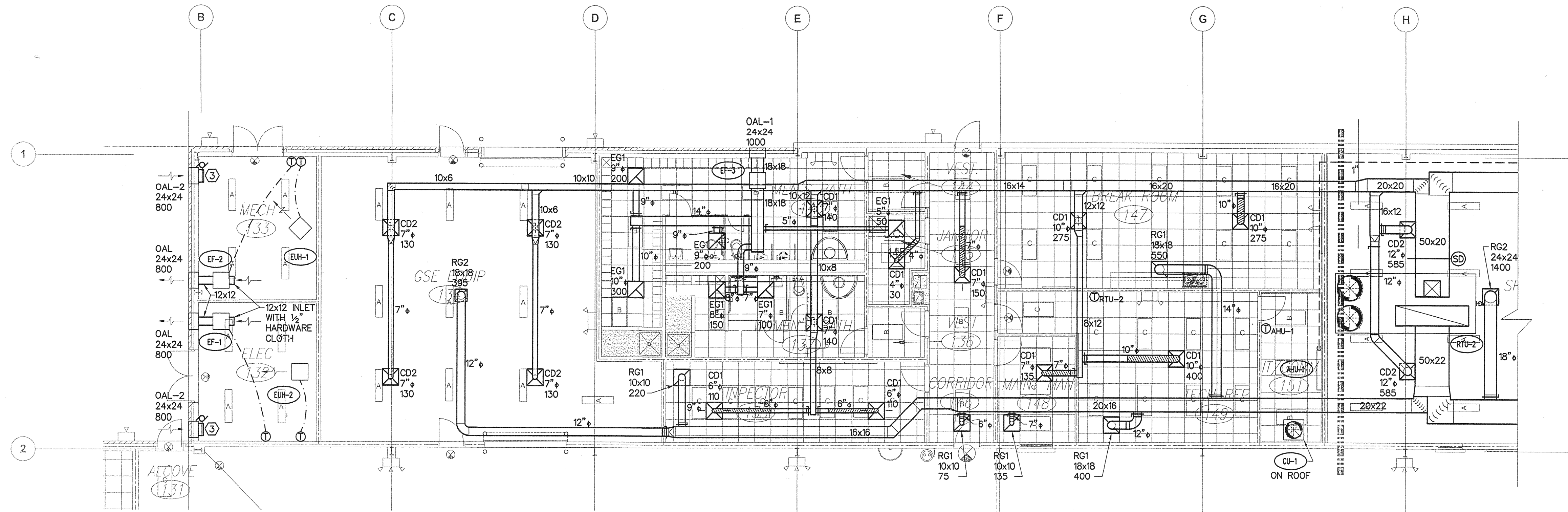
PARTIAL MECHANICAL PLAN - SOUTH



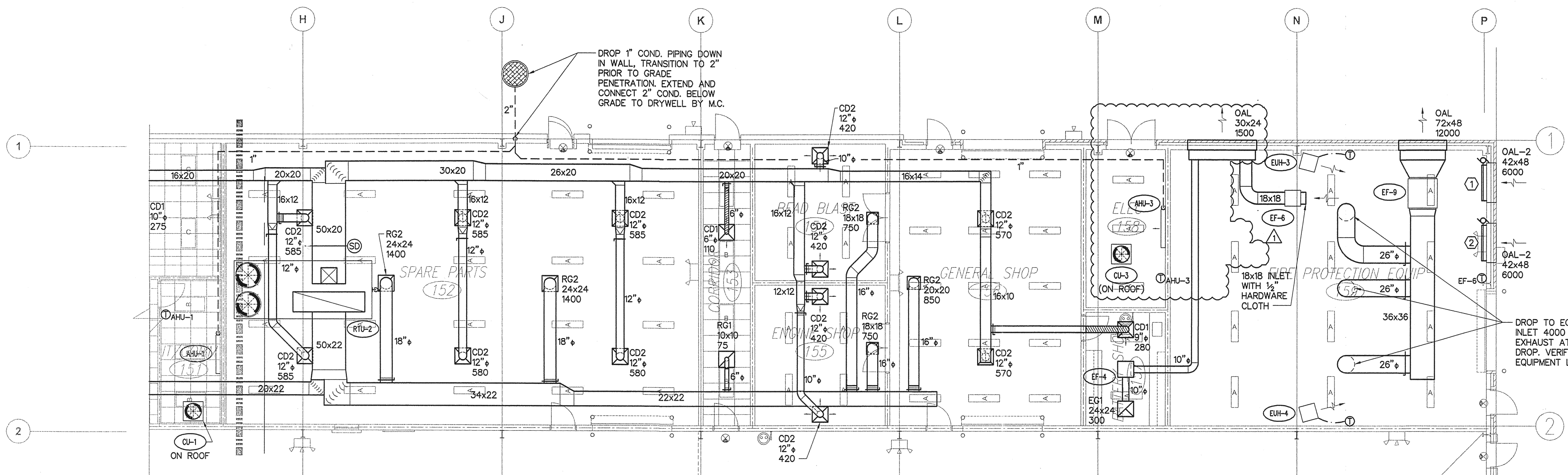
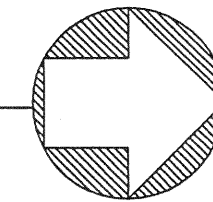
MECHANICAL LEGEND	
SUPPLY DIFFUSER	☒ REFRIGERANT PIPING (REF)
RETURN GRILLE	☒ CONDENSATE PIPING (COND)
EXHAUST GRILLE	☒ CLEANOUT (CO)
FLEXIBLE DUCT	☒ THERMOSTAT
RIGID DUCT	☒ 1" DOOR UNDERCUT FOR MAKE-UP AIR
DUCT UP	☒ SUPPLY AIRFLOW
ROOF CAP	☒ RETURN AIRFLOW
VOLUME DAMPER	☒ POINT OF CONNECTION
PRESSURE SENSOR	☒ SMOKE DETECTOR

100% REVIEW COMMENTS		9.26.06	AR
REV			
DESCRIPTION			
DATE			
BY			
SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY PARTIAL MECHANICAL PLAN - SOUTH GAINESVILLE REGIONAL AIRPORT		GAINESVILLE, FL DATE 07-10-06 APPROVED AIR	REVIEWED JWM DESIGNED JWM DRAWN TNT/RT
PROJECT NO: 4387			

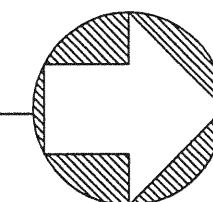
Colwill Engineering
 Consulting Engineers, Inc.
 Engineering Business No. 0021
 4750 East Adamo Drive Tampa, Florida 33605
 Tel: 813-241-2525 Fax: 813-241-2424
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PARTIAL MECHANICAL PLAN - WEST



PARTIAL MECHANICAL PLAN - WEST



- KEYED NOTES**
- INTERLOCK MOTORIZED DAMPER WITH EF-9.
 - INTERLOCK MOTORIZED DAMPER WITH EF-6 AND EF-9.
 - INTERLOCK MOTORIZED DAMPERS WITH RESPECTIVE EXHAUST FAN.

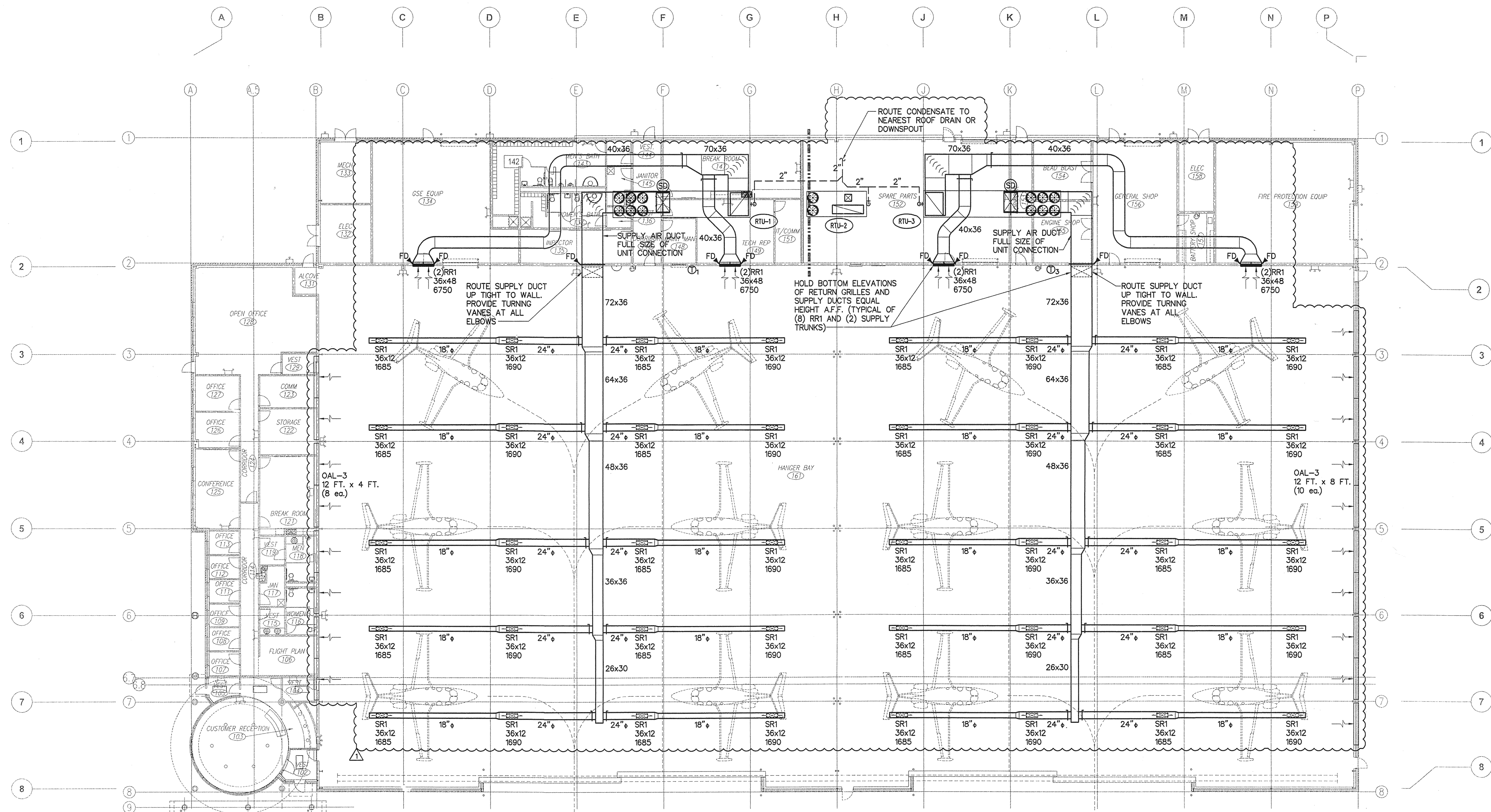
MECHANICAL LEGEND

SUPPLY DIFFUSER	REFRIGERANT PIPING (REF)
RETURN GRILLE	CONDENSATE PIPING (COND)
EXHAUST GRILLE	CLEANOUT (CO)
FLEXIBLE DUCT	THERMOSTAT
RIGID DUCT	1" DOOR UNDERCUT FOR MAKE-UP AIR
DUCT UP	SUPPLY AIRFLOW
ROOF CAP	RETURN AIRFLOW
VOLUME DAMPER	POINT OF CONNECTION
SMOKE DETECTOR	

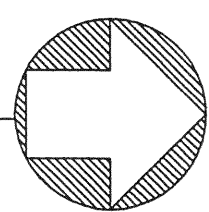
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 Engineering Business No. 9021
 4750 East Adamo Drive Tampa, Florida 33605
 Tel: 813-241-2525 Fax: 813-241-2424
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SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY PARTIAL MECHANICAL PLAN - WEST GAINESVILLE REGIONAL AIRPORT	PROJECT NO: 4-387	DRAWN: TNT	DESIGNED: JWM	REVIEWED: JWM	APPROVED: AJR	DATE: 07-10-06
	GAINESVILLE, FL					
	100% REVIEW COMMENTS					
	9.26.06 AR					
DATE: 9.26.06 BY: AR						

M2



HANGER MECHANICAL PLAN



GENERAL NOTE
 BOTTOM OF DUCTWORK IN HANGAR BAY SHALL BE MINIMUM 25'-6" A.F.F.

PRESSURE RELIEF LOUVER SIZING
 # OF FOAM GENERATORS = 8
 CAPACITY OF FOAM GENERATORS = 26,000 CFM
 TOTAL CAPACITY OF FOAM GENERATORS = 208,000 CFM
 STATIC PRESSURE = 0.1"
 MAXIMUM VELOCITY THROUGH LOUVERS = 400 FPM
 LOUVER FREE AREA = 40%
 LOUVER FREE AREA REQUIRED = 520 SQ. FT.
 TOTAL LOUVER AREA REQUIRED = 1300 SQ. FT.
 TOTAL LOUVER AREA PROVIDED = 1344 SQ. FT.

MECHANICAL LEGEND	
SUPPLY DIFFUSER	REFRIGERANT PIPING (REF)
RETURN GRILLE	CONDENSATE PIPING (COND)
EXHAUST GRILLE	CLEANOUT (CO)
FLEXIBLE DUCT	THERMOSTAT
RIGID DUCT	1" DOOR UNDERCUT FOR MAKE-UP AIR
DUCT UP	SUPPLY AIRFLOW
ROOF CAP	RETURN AIRFLOW
VOLUME DAMPER	POINT OF CONNECTION
FIRE DAMPER	SMOKE DETECTOR

PROJECT NO:	4387	DATE:	07-10-06
DRAWN:	TNT/LAS	APPROVED:	AJR
DESIGNED:	JWM	REVIEWED:	JWM
HANGER MECHANICAL PLAN			
SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY		GAINESVILLE, FL	
GAINESVILLE REGIONAL AIRPORT			
100% REVIEW COMMENTS			
REV	DESCRIPTION	DATE	BY

VAV SCHEDULE

MARK	---	VAV-1	VAV-2	VAV-3	VAV-4	VAV-5	VAV-6	VAV-7	VAV-8
MANUFACTURER	---	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL	---	35E	35E	35E	35E	35E	35E	35E	35E
MAXIMUM AIR	CFM	2960	590	180	150	150	150	150	150
MINIMUM AIR	CFM	890	175	55	45	45	45	45	45
INLET DUCT SIZE	INCHES	10	7	4	4	4	4	4	4
SYSTEM	---	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4
AREA SERVED	---	ENTRY	COORIDOR/RR	FLIGHT PLAN 106	OFFICE 107	OFFICE 108	OFFICE 109	OFFICE 110	OFFICE 112
EXTERNAL STATIC PRESSURE	IN H ₂ O	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
HEAT/VOLTAGE	KW/V	10	2	1	1	1	1	1	1
ELECTRICAL	V/PH/HZ	277/1	277/1	277/1	277/1	277/1	277/1	277/1	277/1
NOTES	---	1-8	1-8	1-8	1-8	1-8	1-8	1-8	1-8

MARK	---	VAV-9	VAV-10	VAV-11	VAV-12	VAV-13	VAV-14	BP-1
MANUFACTURER	---	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL	---	35E	35E	35E	35E	35E	35E	35E
MAXIMUM AIR	CFM	150	420	400	180	180	1220	4330
MINIMUM AIR	CFM	45	130	120	55	55	370	---
INLET DUCT SIZE	INCHES	4	6	6	4	4	10	22
SYSTEM	---	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4
AREA SERVED	---	OFFICE 113	BREAKROOM/STORAGE	CONFERENCE ROOM 125	OFFICE 126	OFFICE 127	OPEN OFFICE 128	BYPASS BOX
EXTERNAL STATIC PRESSURE	IN H ₂ O	0.5	0.5	0.5	0.5	0.5	0.5	---
HEAT/VOLTAGE	KW/V	1	1	1	1	1	1	---
ELECTRICAL	V/PH/HZ	277/1	277/1	277/1	277/1	277/1	277/1	CONTROL POWER
NOTES	---	1-8	1-8	1-8	1-8	1-8	1-8	2-7

NOTES

- MAXIMUM CLOSURE SHALL BE 30 PERCENT.
- OPERATOR SHALL BE PRESSURE INDEPENDENT.
- VAV CONTROLLERS (BY CONTROLS CONTRACTOR) TO BE SHIPPED FACTORY AND INSTALLED AND TESTED AT VAV BOX FACTORY.
- PROVIDE BOX WITH 1" FOIL FACED FACTORY INSULATION.
- OUTLET CONNECTION SHALL BE STRAIGHT FLANGE. TRANSITION FROM OUTLET TO LISTED DUCT SIZE.
- UNIT CONTROL SHALL BE ELECTRONIC, PRESSURE INDEPENDENT, AND CAPABLE OF INTERFACE WITH STANDARD DIRECT DIGITAL CONTROLS (DDC).
- EACH VAV BOX SHALL BE FED FROM THE MEDIUM PRESSURE DUCTWORK SYSTEM BY DUCTWORK SIZED PER THE PLANS. PROVIDE THE TRANSITION FROM SUPPLY DUCT TO VAV BOX INLET SCHEDULED ABOVE.
- PROVIDE ELECTRONIC THERMOSTAT.

FAN SCHEDULE

MARK	---	EF-1	EF-2	EF-3	EF-4	EF-6	EF-7	EF-8	EF-9
MANUFACTURER	---	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK
MODEL	---	100SQN-B	100SQN-B	135SQN-HP	60CPA	135SQN-HP	80SQN-B	80SQN-B	300SQN-B
SERVICE	---	MECHANICAL ROOM	ELECTRICAL ROOM	LOCKER ROOMS	BATTERY ROOM	FIRE PUMP ROOM	OFFICE RESTROOM	OFFICE BREAKROOM	FIRE PUMP ROOM
AIR QUANTITY	CFM	800	800	1000	300	1200	400	400	12,000
EXTERNAL STATIC PRESSURE	IN H ₂ O	0.25	0.25	0.25	0.30	0.25	0.40	0.40	0.375
FAN TYPE	---	CENTRIFUGAL INLINE	CENTRIFUGAL INLINE	CENTRIFUGAL INLINE	CENTRIFUGAL	CENTRIFUGAL INLINE	CENTRIFUGAL INLINE	CENTRIFUGAL INLINE	CENTRIFUGAL INLINE
MAXIMUM FAN SPEED	RPM	1661	1661	1029	1959	1172	1413	1413	731
DRIVE	---	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT
MOTOR	HP(W)	1/6	1/6	1/6	1/3	1/6	1/6	1/6	5.0
ELECTRICAL	V/PH/HZ	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	460/3/60
CONTROLS	---	T-STAT	T-STAT	RTU-2	WALL SWITCH	T-STAT	RTU-4	WALL SWITCH	FIRE PUMP CONTROLLER
SONES	---	10.1	10.1	7.5	12.0	10.0	6.8	6.8	---
WEIGHT	LBS.	120	120	170	184	170	120	120	450
NOTES	---	1,2,3,7	1,2,3,7	2,3,4,7	2,3,5,7,8	1,2,3,7	2,3,6,7	2,3,7	2,3,7

NOTES

- PROVIDE LINE VOLTAGE REVERSE ACTING THERMOSTAT. SET AT 85°F.
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
- APPROVED ALTERNATE MANUFACTURER: GREENHECK.
- INTERLOCK WITH RTU-2.
- EXPLOSION PROOF RATED FAN.
- INTERLOCK WITH RTU-4.
- PROVIDE WITH VIBRATION ISOLATORS.
- EXPLOSION PROOF FAN.

BUILDING DESIGN TEMPERATURES

DESIGN AREA	SUMMER DESIGN		WINTER DESIGN	
	OUTSIDE	INSIDE	OUTSIDE	INSIDE
OFFICE/ADMIN	95 DB	77 WB	75 DB	62.5 WB
STORAGE/SHOPS	95 DB	77 WB	75 DB	62.5 WB
HANGAR BAY	95 DB	77 WB	80 DB	67 WB

ELECTRIC UNIT HEATER

MARK	---	EUH-1,2	EUH-3,4
MANUFACTURER	---	MARKEL	MARKEL
MODEL	---	UH-P3P5103CM	UH-P3P5105CA1
AIR FLOW	CFM	400	400
FAN SPEED	RPM	---	---
FAN MOTOR	HP/FLA	---	---
ELECTRIC HEAT	KW/STEP	3.3/1	5.0/1
ELECTRICAL DATA	V/PH/HZ	460/3/60	460/3/60
WEIGHT	LBS	25	27
LOCATION	---	MECH 133, 132	FIRE PROTECTION 159
NOTES	---	1-6	1-6

NOTES

- PROVIDE CEILING MOUNTED SUSPENSION KIT.
- MOUNT BOTTOM OF UNIT HEATER AT 9'-0" ABOVE FINISHED FLOOR.
- PROVIDE UNIT MOUNTED THERMOSTAT. SET AT 40 DEGREES F.
- HEATER SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND ALL APPLICABLE LOCAL AND NATIONAL CODES.
- UNIT SHALL BE UL LISTED AND CSA CERTIFIED.
- PROVIDE SINGLE POINT POWER CONNECTION.

AIR DISTRIBUTION SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	MATERIAL	NOTES
CD1	TITUS	TMS-AA	CEILING DIFFUSER, LAY-IN	ALUMINUM	1, 2, 3, 4, 6
CD2	TITUS	TMS-AA	CEILING DIFFUSER, SURFACE MTD.	ALUMINUM	1, 2, 3, 4, 5
SR1	TITUS	S300FS	SPIRAL DUCT SUPPLY REGISTER	ALUMINUM	1, 2, 3, 5, 9
SR2	TITUS	S300FS	SIWALL SUPPLY REGISTER	ALUMINUM	1, 2, 3, 5
RG1	TITUS	350FL	RETURN GRILLE, LAY-IN	ALUMINUM	1, 2, 3, 6
RG2	TITUS	350FL	RETURN GRILLE, SURFACE MTD.	ALUMINUM	1, 2, 3, 5
RR1	TITUS	350ZFL	SIWALL RETURN REGISTER	ALUMINUM	1, 2, 3, 6
EG1	TITUS	350FL	EXHAUST GRILLE, LAY-IN	ALUMINUM	1, 2, 3, 6
ER1	TITUS	350FL	EXHAUST REGISTER, SURFACE MTD.	ALUMINUM	1, 2, 3, 5
TG1	TITUS	350FL	TRANSFER GRILLE, LAY-IN	ALUMINUM	1, 2
OAL-1	RUSKIN	ELF6375D	OUTDOOR/EXHAUST AIR LOUVER	ALUMINUM	3, 7
OAL-2	RUSKIN	ELF6375D	OUTDOOR/EXHAUST AIR LOUVER	ALUMINUM	3, 7, 8
OAL-3	RUSKIN	ELBD813	PRESSURE RELIEF LOUVER	ALUMINUM	3, 7, 8, 10

NOTES

- NOISE CRITERIA NOT TO EXCEED 25.
- CONTRACTOR TO COORDINATE BORDER WITH CEILING TYPE (LAY-IN OR PLASTER).
- REFER TO FLOOR PLAN FOR CFM.
- AIR DEVICES ARE 4-WAY THROW (UNLESS NOTED OTHERWISE ON DRAWING).
- AIR DEVICES ARE TO BE SUPPLIED WITH O.B.D.
- PROVIDE MANUAL VOLUME DAMPER AT MAIN TRUNK TAKEOFF FOR BALANCING.
- PROVIDE WITH INSECT SCREEN.
- PROVIDE WITH 2-POSITION 120V MOTORIZED DAMPER.
- PROVIDE WITH AIR SCOOP DAMPER/EXTRACTOR.
- PROVIDE WITH AUTOMATIC BACKDRAFT DAMPER SET AT 0.01" STATIC.

BUILDING AIR BALANCE

OUTSIDE AIR INTO BUILDING		EXHAUST AIR OUT OF BUILDING	
SOURCE	CFM	SOURCE	CFM
RTU-1	6750	EF-3	1000
RTU-2	2000	EF-7	400
RTU-3	6750	EF-8	400
RTU-4	1000		
TOTAL OUTSIDE AIR	16,500	TOTAL EXHAUST AIR	1800
BUILDING BALANCE			+14,700

NOTE: OVER PRESSURIZATION IS ACCOMMODATED VIA OVER PRESSURIZATION LOUVERS EQUIPPED WITH BACKDRAFT DAMPERS FOR THE MAIN HANGAR.

9.26.06

100% REVIEW COMMENTS

REV

SEP 28 2006

SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY

MECHANICAL SCHEDULES

GAINESVILLE REGIONAL AIRPORT

GAINESVILLE, FL

DATE 07-10-06

APPROVED AIR

REVIEWED JWM

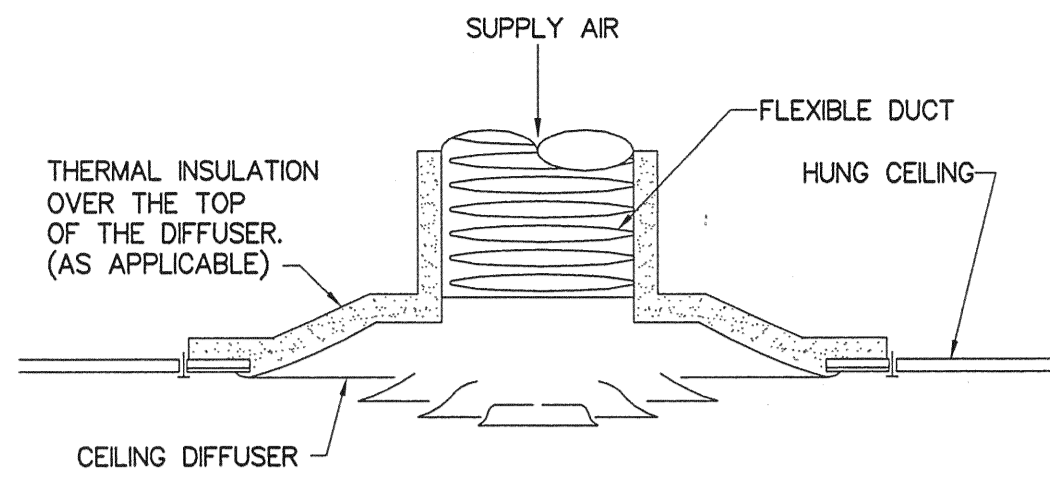
DESIGNED JWM

DRAWN TNT/RT

PROJECT NO: 4387

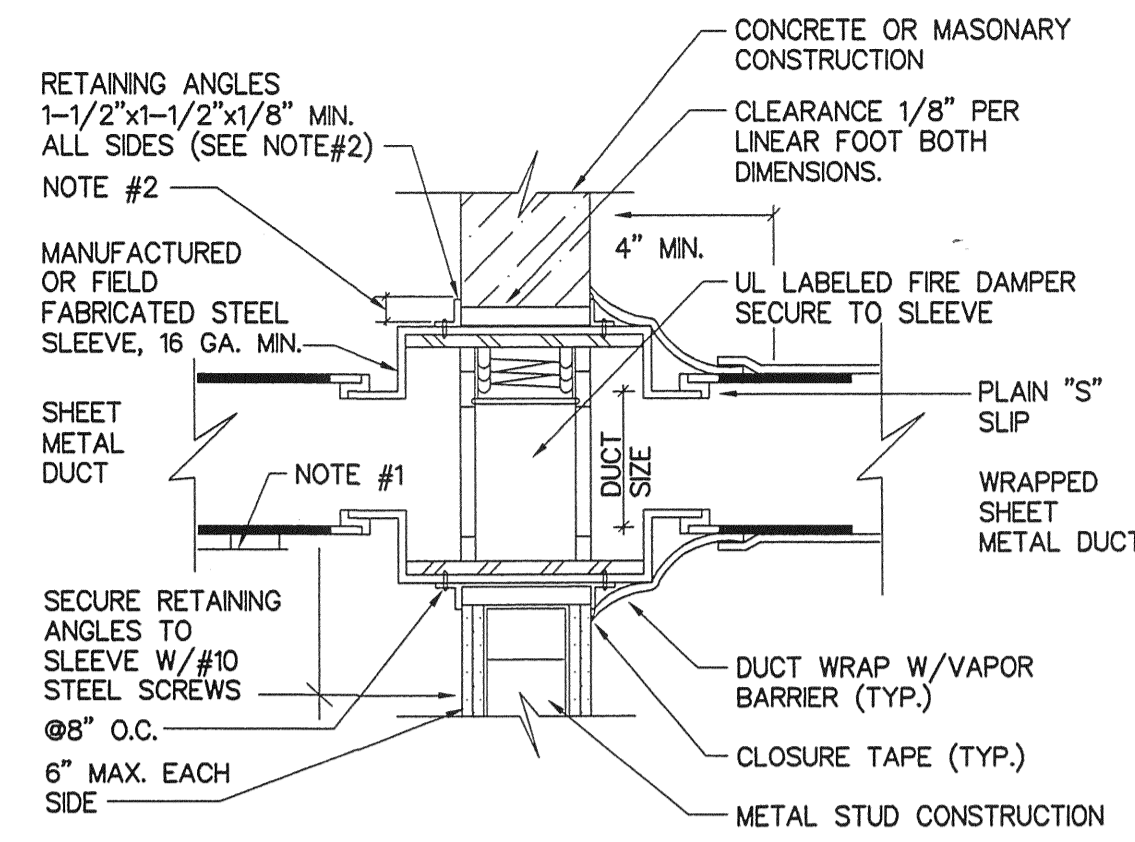
M4

Colwill Engineering
Consulting Engineers, Inc.
Engineering Business No. 0021
4750 East Adamo Drive Tampa, Florida 33605
Tel: 813-841-8225 Fax: 813-841-2424
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- NOTES:
- TAPE INNER COIL OF FLEX TO THE DIFFUSER COLLAR. TAPE COMPLETELY AROUND AND SECURE WITH HANDOUT OR EQUAL STRAPPING SYSTEM TO ASSURE AN AIR TIGHT SEAL. USE STEEL STRAPS WHERE REQUIRED BY LOCAL JURISDICTION. PULL FLEX INSULATION AND OUTER COVER DOWN TIGHT OVER GRILLE COLLAR. DO NOT STRAP INSULATION DOWN.
 - STRETCH FLEX TIGHT BETWEEN DUCT AND DIFFUSER TO AVOID KINKS. SUPPORT EVERY FOUR FEET WITH 2" STEEL STRAP.

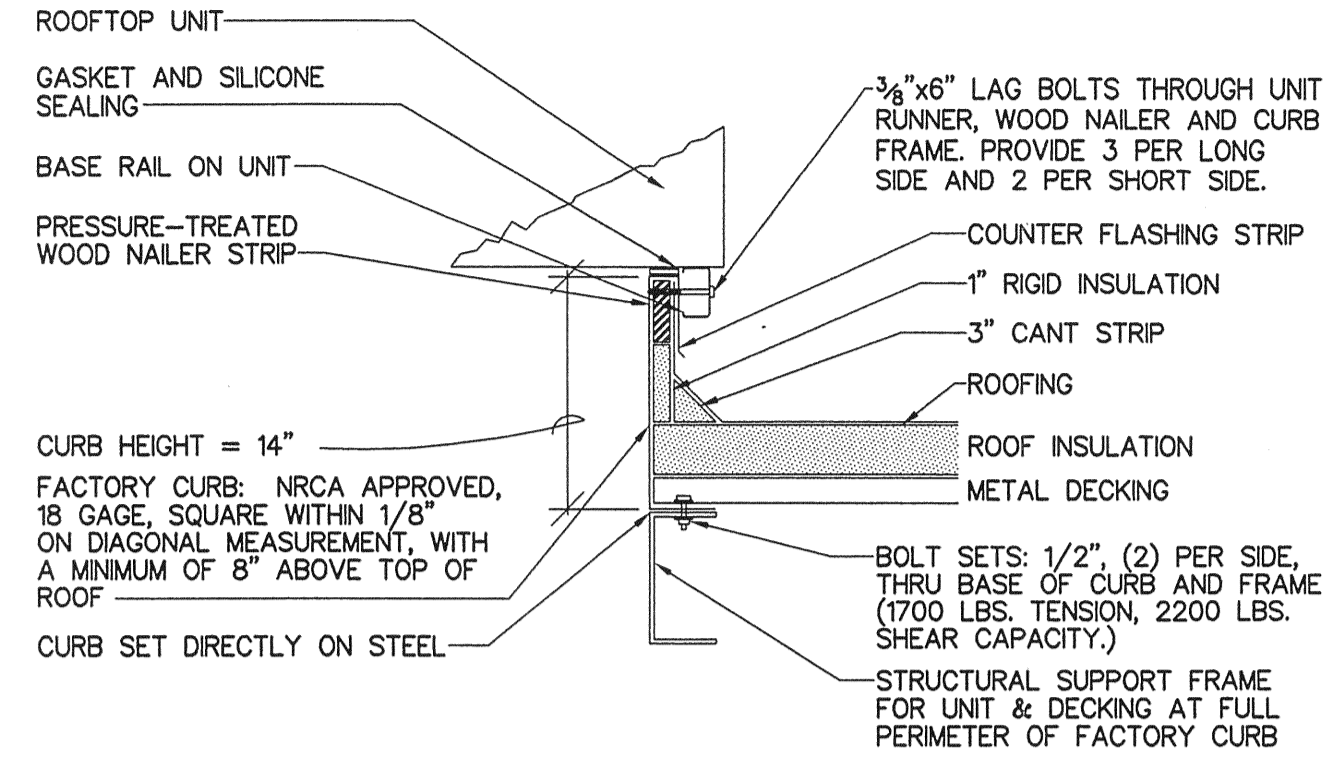
CEILING DIFFUSER DETAIL
SCALE: NONE



- NOTES:
1. PROVIDE ACCESS DOOR AND LABEL ON SIDE OR BOTTOM OF DUCT AS FOLLOWS:

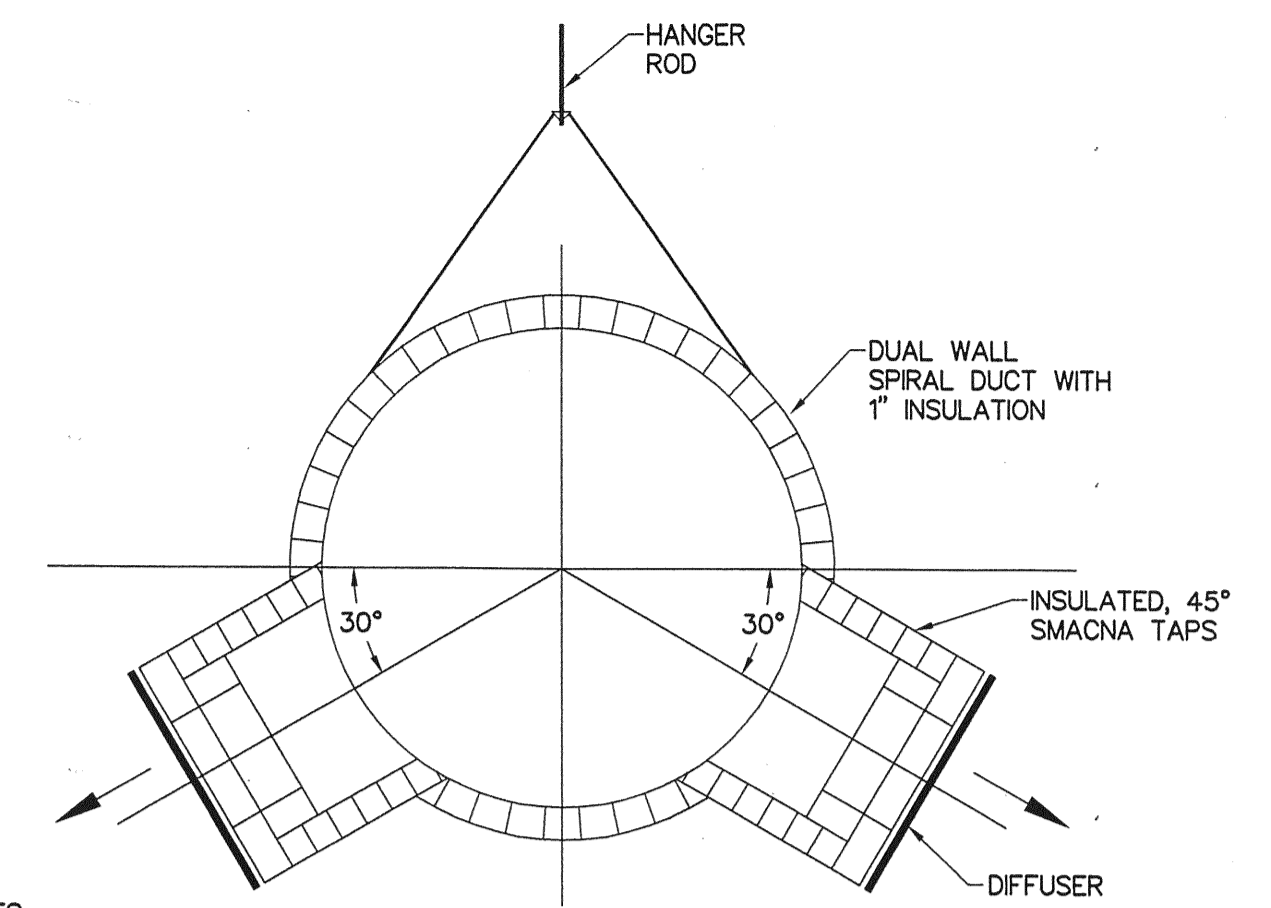
DUCT WIDTH	DOOR SIZE
8" THRU 18"	12" x 12"
19" THRU 36"	12" x 18"
37" AND ABOVE	18" x 18"
 2. RETAINING ANGLES SHALL LAP STRUCTURAL OPENING 1" MIN. AND COVER CORNERS OF OPENINGS. ANGLES MUST NOT BE ATTACHED TO EACH OTHER AT CORNERS OR TO WALL. ATTACH TO SLEEVE. UL SYSTEM #555.
 3. ALL ATTACHMENTS PER MANUFACTURERS APPROVED INSTALLATION INSTRUCTION.
 4. VERTICAL POSITION SHOWN. HORIZONTAL INSTALLATION SIMILAR. DAMPER TO BE SPRING LOADED WHEN HORIZONTAL.

FIRE DAMPER INSTALLATION DETAIL
SCALE: NONE



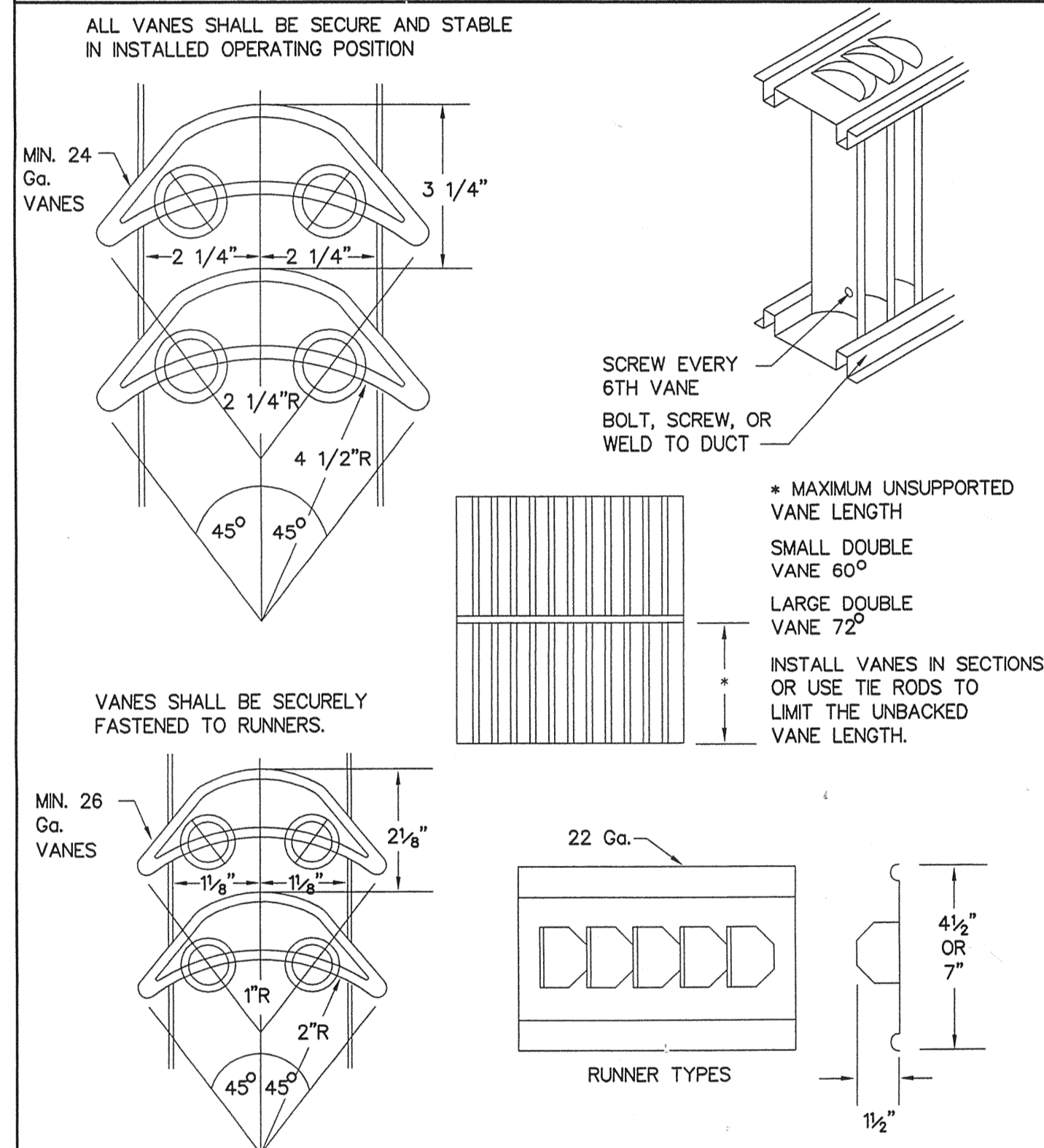
1. MECHANICAL SUBCONTRACTOR SHALL FURNISH ROOF OPENING SIZES & LOCATIONS, FOR STRUCTURAL SUPPORT FRAMING BY GENERAL CONTRACTOR.
2. CURB SHALL BE MANUFACTURED WITH SLOPING BASE TO MATCH ROOF PITCH AND LEVEL TOP.
3. ALTERNATE METHODS OF TIE-DOWN FOR ROOF TOP EQUIPMENT SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO COMMENCEMENT OF WORK OR EQUIPMENT ORDER.
4. SYSTEM SHALL BE CAPABLE OF WITHSTANDING WIND FORCE IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE AND OTHER APPLICABLE CODES. (TIE-DOWN SYSTEM HAS BEEN DESIGNED FOR 146 MPH WIND FORCE MINIMUM).

RTU CURB/TIE DOWN DETAIL
SCALE: NONE

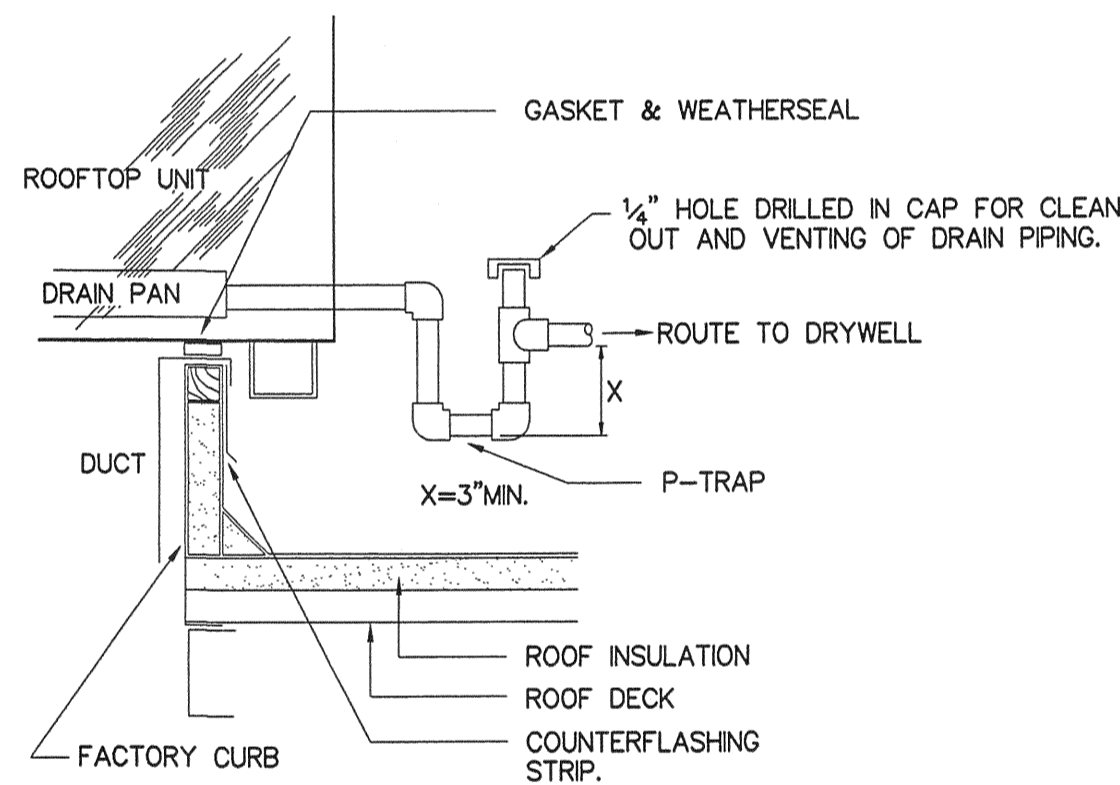


- NOTES:
1. ALL DUCTWORK SHALL BE "PAINT-GRIP" SHEET METAL.
 2. RECTANGULAR DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.
 3. ROUND DUCTWORK SHALL BE DUAL WALL SPIRAL-LOCKSEAM AS MANUFACTURED BY R.V. MONEY, UNITED MCGILL, OR SEMCO.
 - A. GAGES SHALL BE 26 GAGE FOR 3-14" DIAMETER, 24 GAGE FOR 15-26" DIAMETER, 22 GAGE FOR 28-36" DIAMETER.
 - B. FITTINGS SHALL BE 22 GAGE FOR 3-8" DIAMETER, 20 GAGE FOR 9-36" DIAMETER.
 - C. FIELD JOINTS SHALL BE MADE WITH "DUCTMATE SPIRO-MATE" MECHANICAL BOLTED JOINTS. NO SUBSTITUTIONS.
 - D. HANGERS SHALL BE VERTICAL RODS, CONNECTED WITH "DUCTMATE" BA3 STRAP CLAMPS. INSTALLED IN ACCORDANCE WITH DUCTMATE INSTALLATION INSTRUCTIONS.

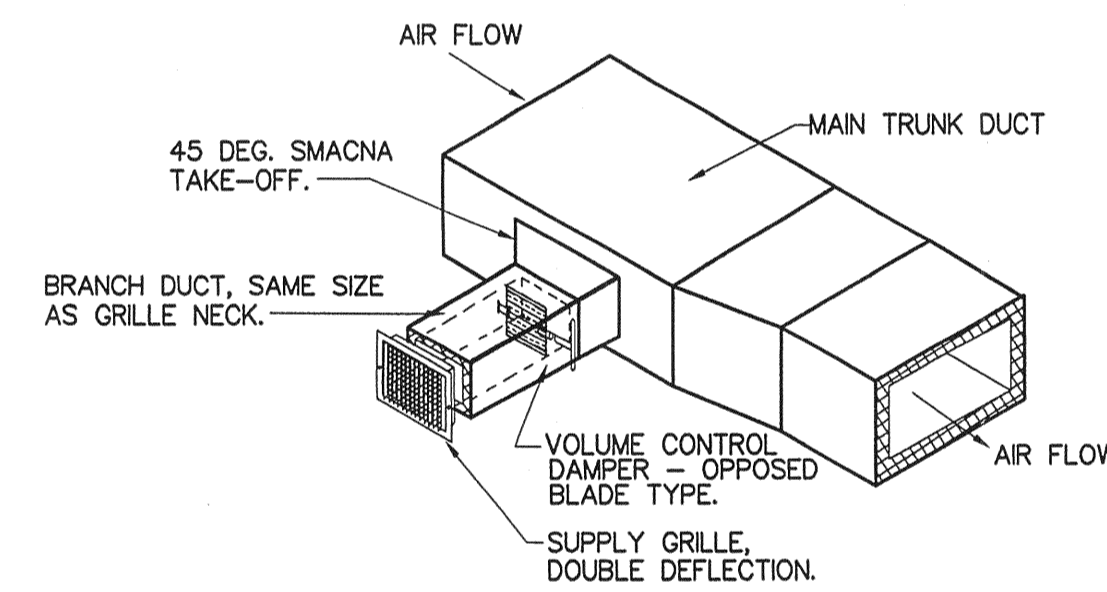
SPIRAL DUCT MOUNTING DETAIL
SCALE: NONE



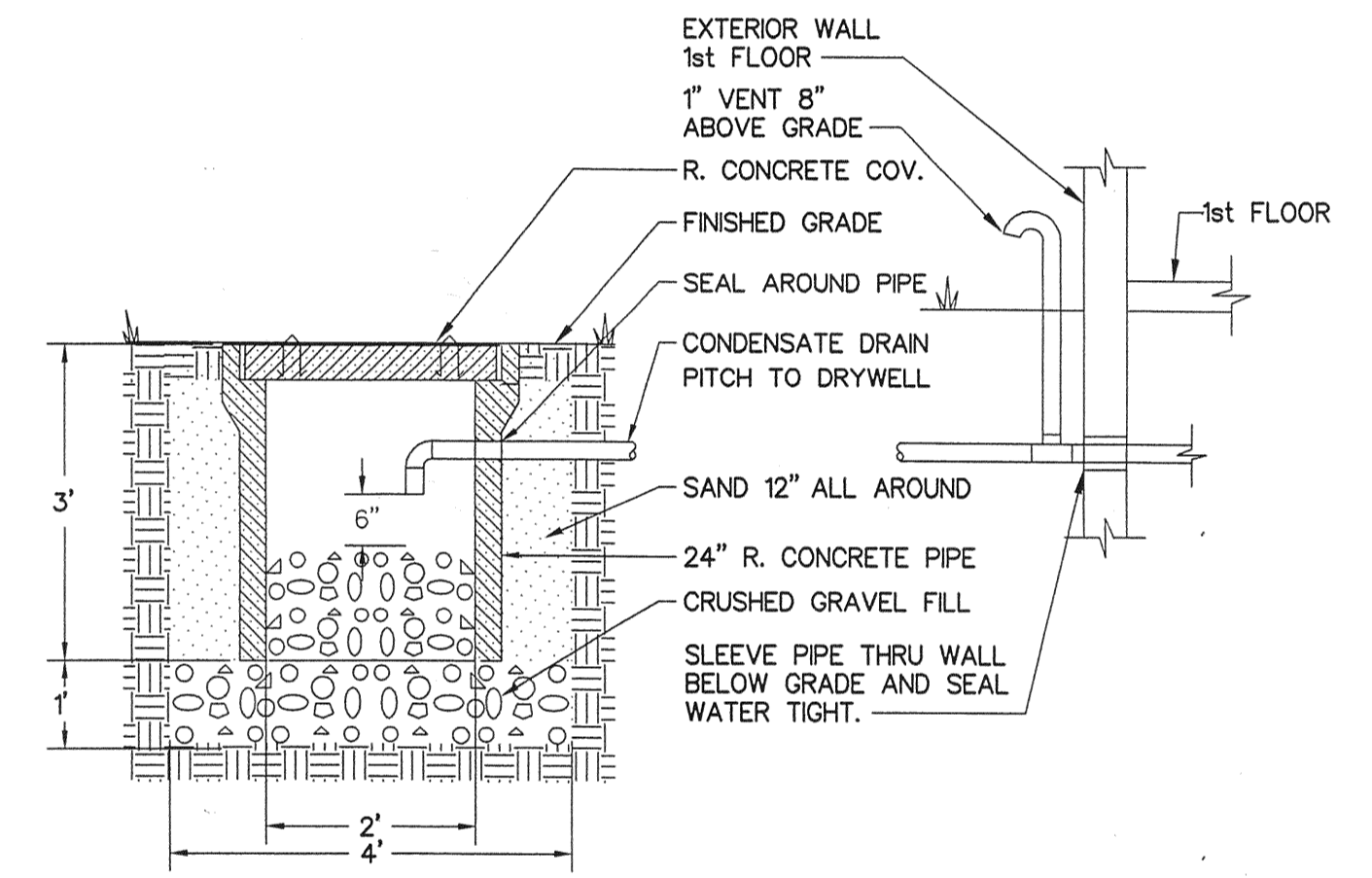
TURNING VANES
SCALE: NONE



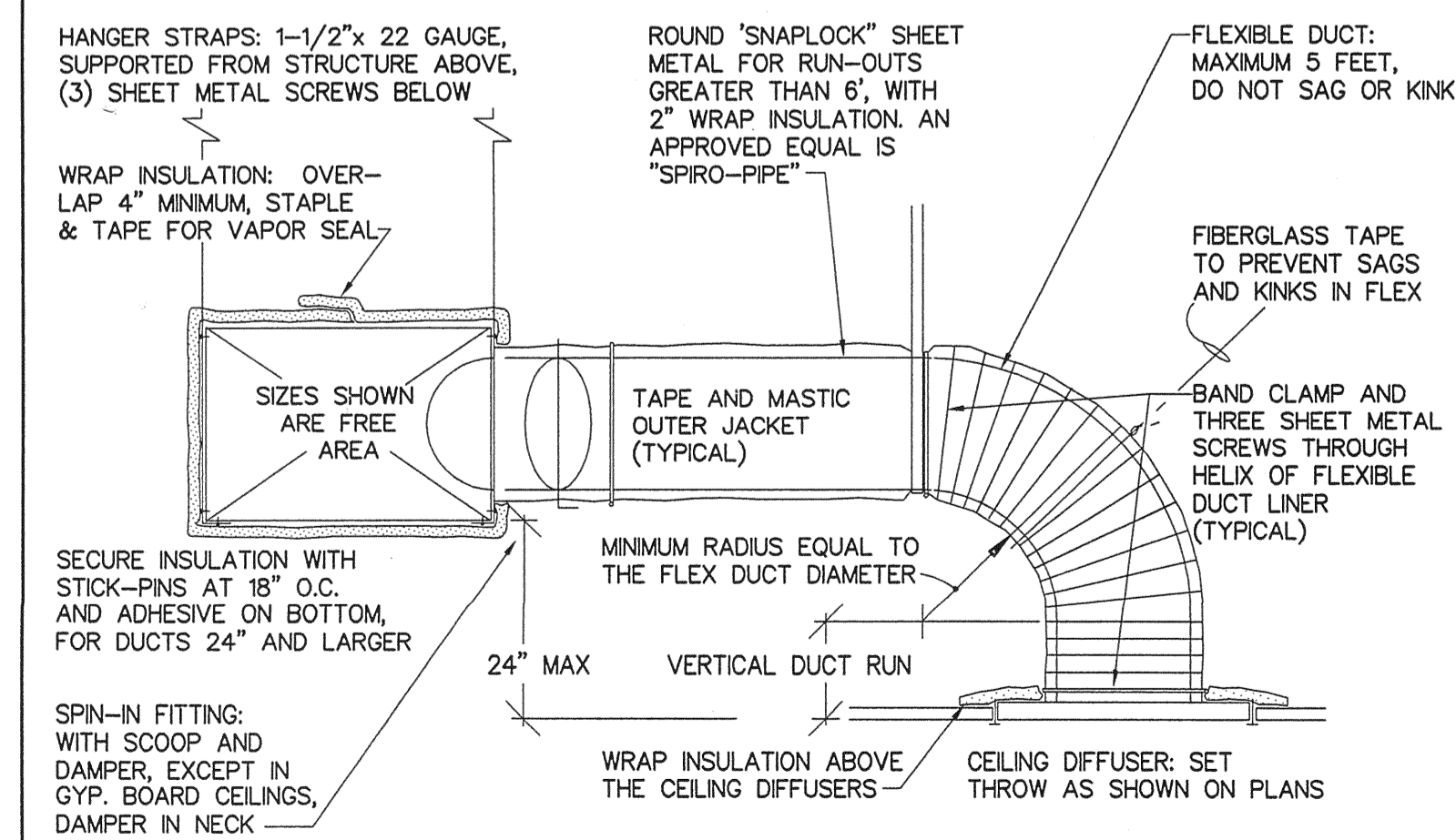
R.T.U. CONDENSATE DETAIL
SCALE: NONE



SIDEWALL GRILLE DETAIL
SCALE: NONE



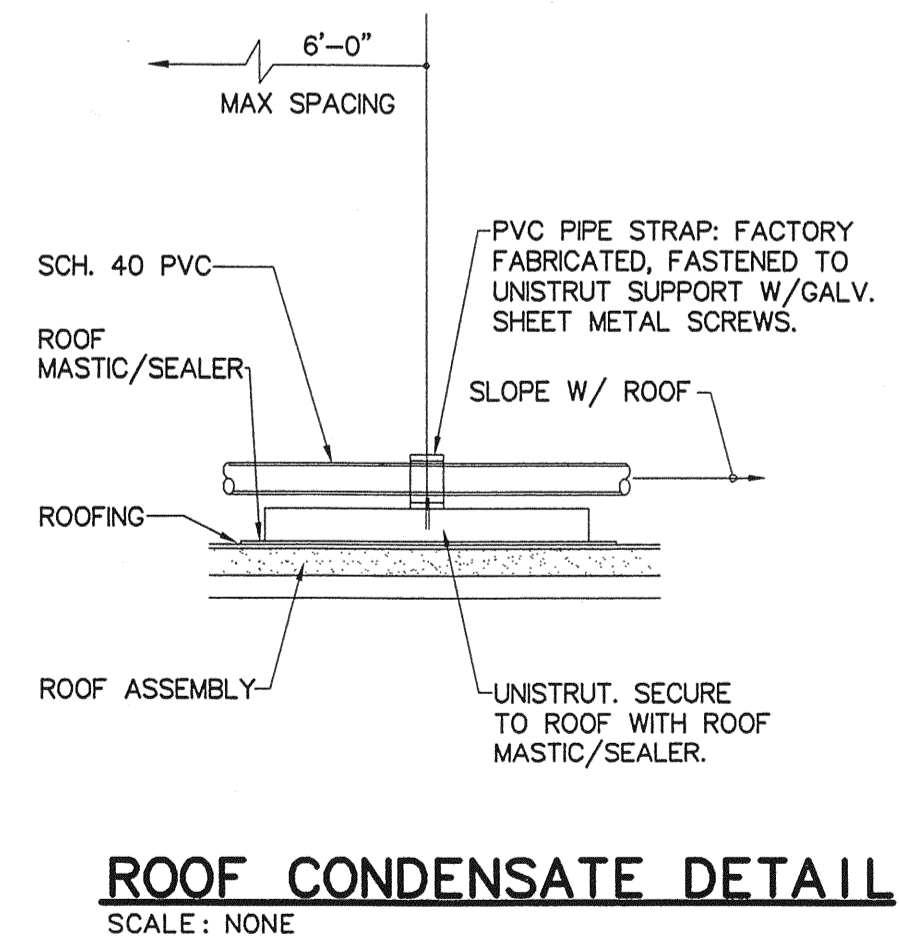
DRYWELL DETAIL
SCALE: NONE



DUCT DETAIL
SCALE: NONE

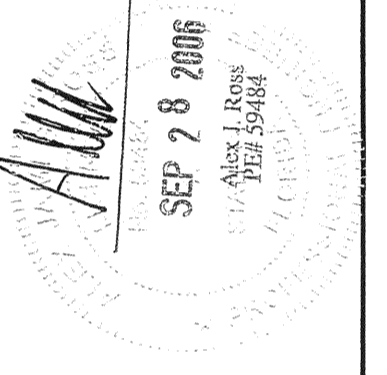
1. SHEET METAL DUCTS SHALL BE FABRICATED & INSTALLED PER THE LATEST EDITION OF SMACNA, AND THE FLORIDA ENERGY CODE (SECTIONS 503.8 AND 503.9) WITH THE FOLLOWING CRITERIA BASED ON 4 FOOT DUCT SECTIONS.

DUCT SIZE	DUCT MATERIAL	HANGERS	REINFORCEMENT
0 - 12"	26 GA FLAT	8" O.C.	NONE
13 - 30"	24 GA BEADED	8" O.C.	13-18" NONE. 19-30" STANDING
31 - 54"	22 GA BEADED	6" O.C.	31-43" STANDING 1" S. 49-54" STANDING 2" S. 20 GA.
55 - 84"	20 GA CROSS-BREAK	5" O.C.	55-80" STANDING 2" S. 84"+ STANDING SEAM, 20 GA.
2. ALTERNATE INTERPRETATIONS OF SMACNA DUCT MATERIAL, HANGERS AND REINFORCEMENTS ARE SUBJECT TO ENGINEER APPROVAL, AND REQUIRE SEPARATE SUBMITTAL OF THE ALTERNATES.
3. FLEXIBLE DUCT CONNECTORS SHALL BE PROVIDED AT CONNECTIONS TO ALL EQUIPMENT.
4. SUPPLY AIR DROPS FROM ROOFTOP UNITS SHALL TRANSITION FROM THE UNIT OPENING SIZE TO SQUARE NECK ELBOWS, WITH SIZES AS SHOWN ON THE PLAN. IF TWO SUPPLY AIR DUCT RUNS ARE AT THE UNIT, THEN TWO SEPERATE DROPS AND ELBOWS SHALL BE PROVIDED.
5. RETURN AIR DROPS FROM THE ROOFTOP UNITS SHALL BE FULL SIZE OF THE UNIT OPENING.
6. ELBOWS SHALL BE SQUARE NECK (SAME IN OUT DIMENSION) WITH 2" DOUBLE THICKNESS TURNING VANES.
7. OFFSETS SHALL NOT REDUCE THE FREE AREA, AND SHALL NOT EXCEED 30 DEGREES. A RADIUS HEEL SHALL BE PROVIDED ON 30 DEGREE OFFSETS. SMALLER OFFSETS MAY BE MITERED AT BOTH THE HEEL AND THROAT.
8. TRANSITIONS SHALL NOT EXCEED 1:3 RATIO (4" TRANSITION PER FOOT SINGLE SIDED TRANSITION, AND 8" PER FOOT DOUBLE SIDED TRANSITION).
9. INSULATION SHALL BE NFPA 90A APPROVED, WITH WRAP INSULATION SHALL BE 2" THICK WITH ALUMINUM FOL FACING. LINER SHALL BE 1-1/2" THICK, 6.0 R VALUE.
10. RECTANGULAR BRANCH CONNECTIONS SHALL BE 45 DEGREE ENTRY TYPE PER SMACNA FIGURE 2-10.
11. ROUND DUCT CONNECTIONS SHALL BE WITH "METAL MANUFACTURING COMPANY" MS-6 SPIN-IN FITTINGS, WITH 90 DEGREE SCOOP, DAMPER AND HANDLE. SPRAY PAINT LOCATIONS OF HANDLES.
12. FLEXIBLE DUCT SHALL INCLUDE AN INNER POLYETHYLENE LINER, A SPRING HELIX, 1-1/4" BLANKET INSULATION, A FOIL OUTER VAPOR BARRIER, AND BE UL-181 APPROVED.
13. ALL TAPE SHALL BE FASSON 0810 (NO SUBSTITUTIONS), SMACNA APPROVED.
14. COMPLETELY SEAL ALL SUPPLY, RETURN AND OUTSIDE AIR DUCTS WITH MASTIC.



ROOF CONDENSATE DETAIL
SCALE: NONE

NO.	DATE	DESCRIPTION
1	9.26.06	AR
2		
3		
4		
5		
6		
7		
8		
9		
10		



DATE	APPROVED	DESIGNED	REVIEWED	DATE
07-10-06	AJR	JMM	JMM	

SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
MECHANICAL DETAILS
GAINESVILLE, FL
GAINESVILLE REGIONAL AIRPORT
PROJECT NO: 4387
DRAWN: LAS/JNT
REVIEWED: JMM
DESIGNED: JMM
APPROVED: AJR
DATE: 07-10-06



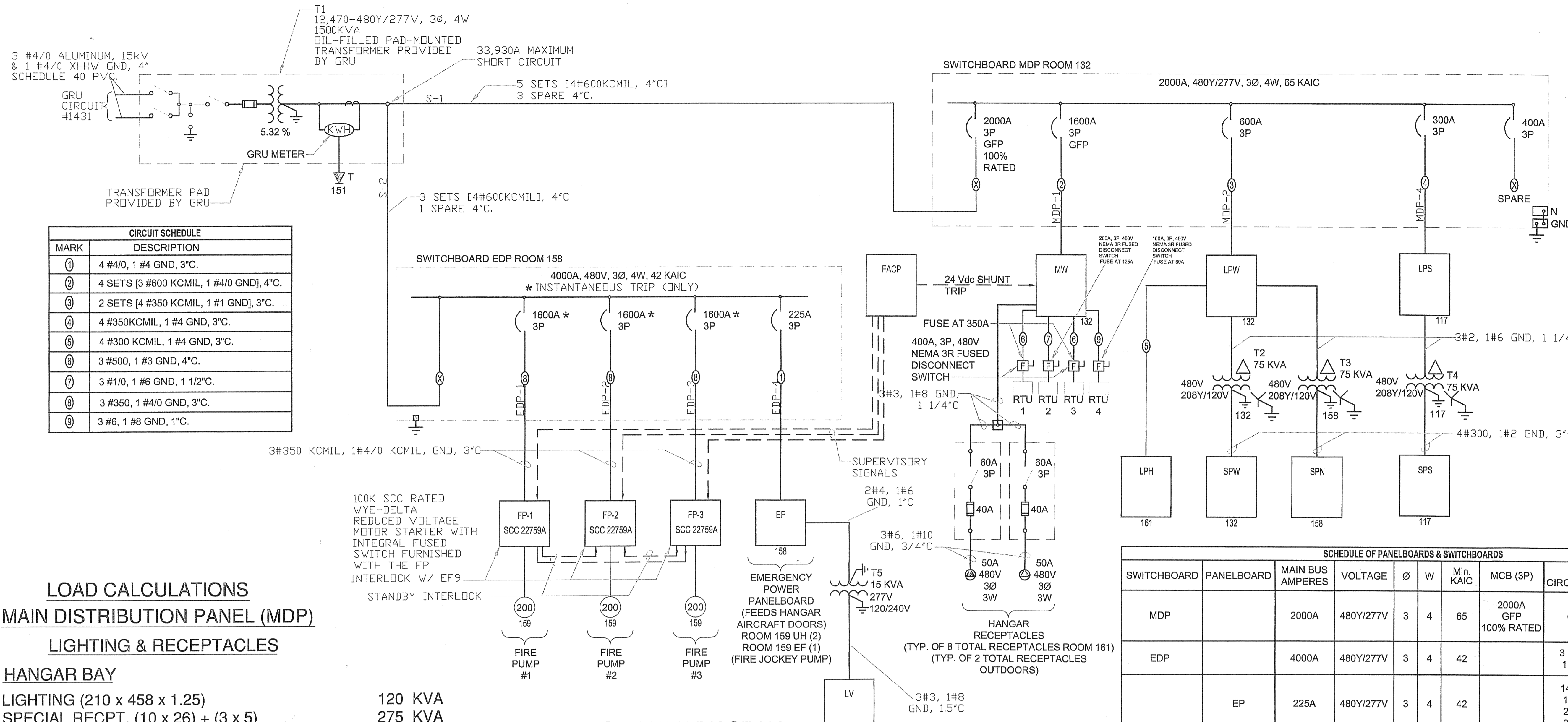
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REVISIONS

NO	DATE	DESCRIPTION
1	6/5/06	
2	6/21/06	
3	6/22/06	RTU-4
4	8/18	100% COMM.
5	9/20	RTU 1,3,4 PANEL MW
6	10/3	LOAD CALC.

DRAWN BY: CHKD BY:
HR HR

THE ECLIPSE AVIATION
 SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
 GAINESVILLE REGIONAL AIRPORT, GAINESVILLE, FL
 POWER RISER DIAGRAM



POWER ONE-LINE DIAGRAM
NOT TO SCALE

MARK	DESCRIPTION
①	4 #4/0, 1 #4 GND, 3°C.
②	4 SETS [3 #600 KCMIL, 1 #4/0 GND], 4°C.
③	2 SETS [4 #350 KCMIL, 1 #1 GND], 3°C.
④	4 #350KCMIL, 1 #4 GND, 3°C.
⑤	4 #300 KCMIL, 1 #4 GND, 3°C.
⑥	3 #500, 1 #3 GND, 4°C.
⑦	3 #1/0, 1 #6 GND, 1 1/2°C.
⑧	3 #350, 1 #4/0 GND, 3°C.
⑨	3 #6, 1 #8 GND, 1°C.

SWITCHBOARD	PANELBOARD	MAIN BUS AMPERES	VOLTAGE	Ø	W	Min. KAIC	MCB (3P)	BRANCH CIRCUIT BREAKER	NEMA ENCLOSURE TYPE
MDP		2000A	480Y/277V	3	4	65	2000A GFP 100% RATED	SEE ONE-LINE DIAGRAM	1
EDP		4000A	480Y/277V	3	4	42		3 X 1600A, 3P * 1 X 225A, 3P	1
	EP	225A	480Y/277V	3	4	42		14 X 20A, 1P 1 X 80A, 1P 2 X 20A, 3P 3 X 30A, 3P	1
	LPH	225A	480Y/277V	3	4	42		42 X 30A, 1P SWD CIRCUIT BREAKERS	3R
	LPS	400A	480Y/277V	3	4	42		14 X 20A, 1P 4 X 30A, 1P 1 X 30A, 3P 1 X 125A, 3P	1
	LPW	600A	480Y/277V	3	4	42		27 X 20A, 1P 1 X 20A, 3P 2 X 125A, 3P 1 X 225A, 3P 1 X 60A, 3P	1
	MW	1600A	480Y/277V	3	3	42	1600A (WITH 24V DC SHUNT-TRIP)	2 X 350A, 3P 1 X 150A, 3P 1 X 60A, 3P 1 X 80A, 3P 10 X 100A, 3P	1
	SPN	225A	208Y/120V	3	4	10	225A	28 X 20A, 1P 12 X 30A, 1P 2 X 15A, 1P	1
	SPS	225A	208Y/120V	3	4	10	225A	28 X 20A, 1P 8 X 30A, 1P 1 X 20A, 2P 2 X 30A, 2P 1 X 50A, 2P 1 X 50A, 3P	1
	SPW	225A	208Y/120V	3	4	10	225A	21 X 20A, 1P 2 X 15A, 1P 2 X 30A, 1P 3 X 20A, 2P 3 X 30A, 2P 1 X 50A, 2P 1 X 50A, 3P	1
	LV	100A	120/240V	1	34	10	100A	5 X 20A, 1P	1

* INSTANTANEOUS TRIP ONLY

LOAD CALCULATIONS

MAIN DISTRIBUTION PANEL (MDP)

LIGHTING & RECEPTACLES

HANGAR BAY

LIGHTING (210 x 458 x 1.25) 120 KVA
SPECIAL RECPT. (10 x 26) + (3 x 5) 275 KVA

OFFICE AND SHOP AREA

1656 SF x 5.5 VA/SF 91 KVA

APPLIANCES

RERIGERATOR (2) 2.0 KVA
GARBAGE DISPOSAL (2) 1.5 KVA
ICE MAKER (2) 3.0 KVA
MICROWAVE (2) 3.0 KVA
DISHWASHER 1.5 KVA
WATER HEATER (2) 9.0 KVA

EQUIPMENTS

IT EQUIPMENT 15 KVA
SPECIAL EQUIPMENT 25 KVA
OTHER EQUIPMENT 10 KVA
AIR COMPRESSOR 38 KVA
AIR DRYER 2 KVA
OVERHEAD DOORS 5 KVA

AIRCONDITIONING

RTU 1,2 552 KVA
RTU 2,4 111 KVA
VAV 1-14 19 KVA
EUH 1,2 7 KVA
CU & AHU 1,2 7 KVA
TOTAL LOAD 1297 KVA
LARGEST MOTOR x 0.25 34 KVA

TOTAL CALCULATED LOAD 1331 KVA @ 480Y/277, 1602 AMPS

LOAD CALCULATIONS

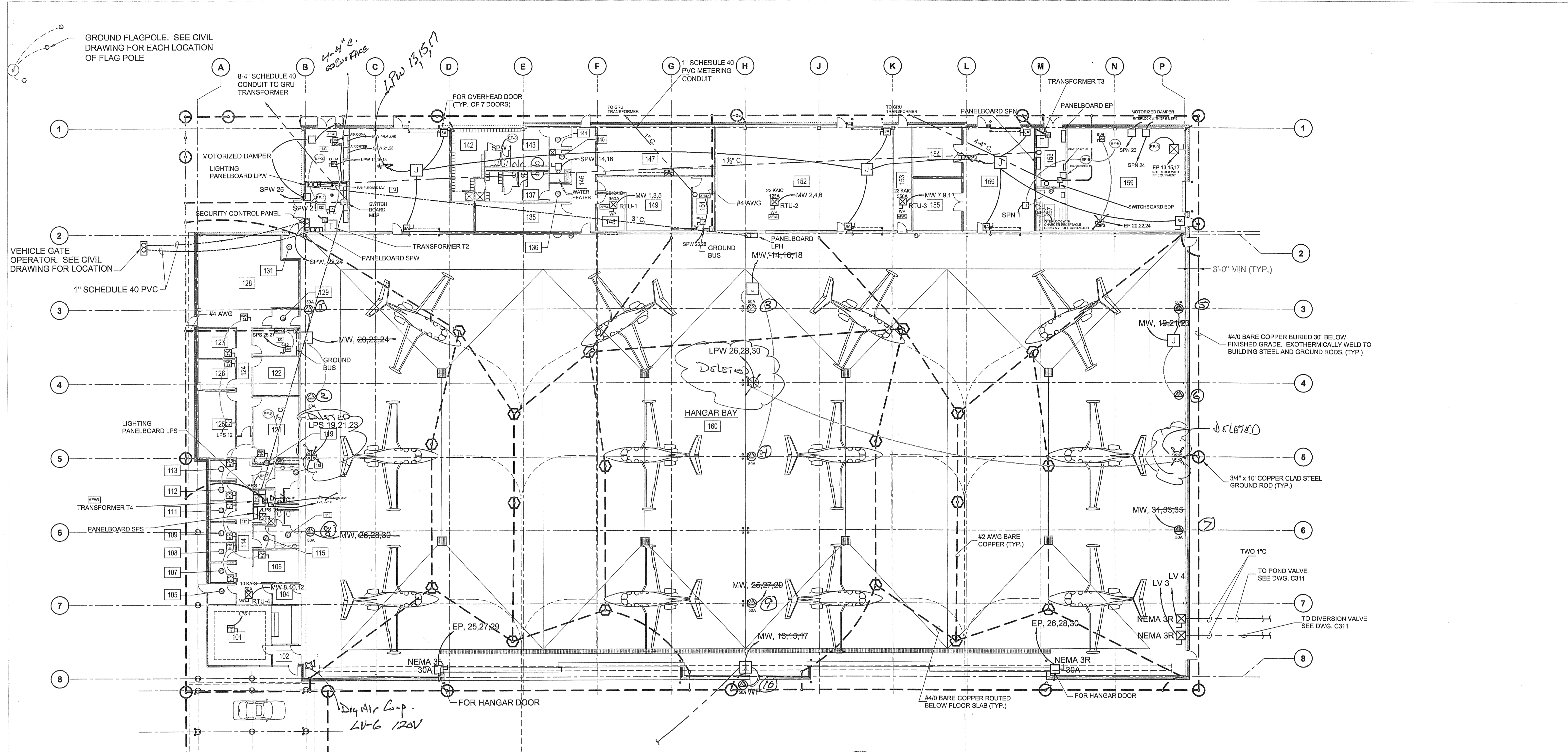
EMERGENCY DISTRIBUTION PANEL (EDP)

EUH 1, 2 8.3 KVA
EXHAUST FAN # 9 17.5 KVA
JOCKEY PUMP 4.0 KVA
AIRCRAFT DOORS (2) 6.6 KVA
OTHER LOAD 1.5 KVA
FIRE PUMP 1,2 400 KVA
LARGEST MOTOR x 0.25 50 KVA

TOTAL CALCULATED LOAD 488 KVA @ 480Y/277, 587 AMPS

HAMID REZAEI, PE
13521 SW 4TH LN
NEWBERRY, FL 32669
352-665-1418
PE# 52085

DATE MAY 2006		
REVISIONS		
NO	DATE	DESCRIPTION
1	6/1/06	
2	8/31	100% COMM
DRAWN BY: CHKD BY:		
HR		



OVERALL FLOOR PLAN

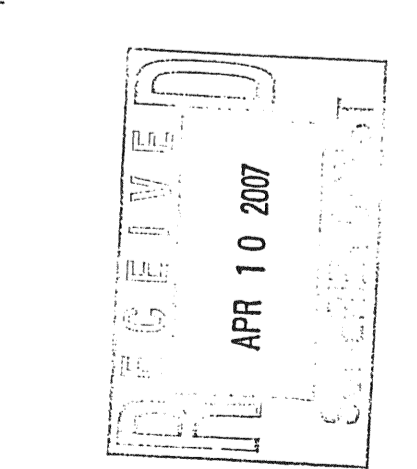
16 8 0 16 32
SCALE IN FEET

ROOM DESIGNATIONS

101 CUSTOMER LOUNGE	112 OFFICE	123 COMMUNICATION	134 GSE EQUIPMENT	145 JANITOR CLOSET	156 GENERAL SHOP
102 VESTIBULE	113 OFFICE	124 CORRIDOR	135 INSPECTORS OFFICE	146 CORRIDOR	157 BATTERY SHOP
103 CUSTOMER RECEPTION	114 CORRIDOR	125 CONFERENCE ROOM	136 VESTIBULE	147 BREAK ROOM	158 ELECTRICAL EQUIPMENT ROOM
104 VESTIBULE	115 VESTIBULE	126 OFFICE	137 WOMEN'S TOILET	148 MAINT. MANAGER OFFICE	159 FIRE PROTECTION EQUIP ROOM
105 VESTIBULE	116 WOMEN'S TOILET	127 OFFICE	138 WOMEN'S LOCKERS	149 TECH. REPS OFFICE	160 HANGAR BAY
106 FLIGHT PLAN	117 JANITOR CLOSET	128 OPEN OFFICE	139 WOMEN'S SHOWER & DRY	150 NOT USED	
107 OFFICE	118 MEN'S TOILET	129 VESTIBULE	140 NOT USED	151 IT/ COMM.	
108 OFFICE	119 VESTIBULE	130 NOT USED	141 MEN'S SHOWER & DRY	152 SPARE PARTS	
109 OFFICE	120 NOT USED	131 ALCOVE	142 MEN'S LOCKERS	153 CORRIDOR	
110 NOT USED	121 BREAK ROOM	132 ELECTRICAL EQUIPMENT ROOM	143 MEN'S TOILET	154 BEAD BLAST	
111 OFFICE	122 STORAGE	133 MECHANICAL EQUIPMENT ROOM	144 VESTIBULE	155 ENGINE SHOP	

NOTES:
1. ATTACH EACH AIRCRAFT TIE DOWN TO A 3/4" x 10'-0" GROUND ROD WITH #4/0 BARE COPPER WITH EXOTHERMICALLY WELDED CONNECTIONS.

- LEGEND**
- ⊕ FLOOR RECESSED AIRCRAFT STATIC GROUND RECEPTACLE WITH 3/4"x10' GROUND ROD
 - ⊕ 480V, 50A, 3Ø, 3W RECEPTACLE WITH 3P, 480V, 60A FUSED (40A FUSES) DISCONNECT SWITCH
 - ⊕ EXOTHERMIC WELDED CONNECTION
 - ⊕ BOLTED CONNECTION
 - CONDUIT ROUTED EXPOSED
 - - - CONDUIT ROUTED UNDERGROUND
 - ⊕ DISCONNECT SWITCH (F=FUSED)
 - ⊕ COMBINATION DISCONNECT SWITCH AND MOTOR STARTER
 - AFWL ARC FLASH WARNING LABEL
 - ⊕ 480V, 30A, 5-W, HANGAR RECEPTACLE



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THE ECLIPSE AVIATION
SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
GAINESVILLE REGIONAL AIRPORT, GAINESVILLE, FL
POWER PLAN

AFE
ALL FLORIDA
ELECTRIC CO., INC.
2606 NORTHEAST 17th TERRACE
GAINESVILLE, FLORIDA 32609
COMMERCIAL * INDUSTRIAL * INSTITUTIONAL

REVISIONS

NO	DATE	DESCRIPTION
1	7/1	LPH,LPW,MW
2	7/5	ADD AIRCRAFT DOOR
3	8/28	100% COMM

DRAWN BY: CHKD BY:

HR

THE ECLIPSE AVIATION
 SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
 GAINESVILLE REGIONAL AIRPORT, GAINESVILLE, FL
 480Y/277 VOLT SYSTEM PANEL SCHEDULE

SWITCHBOARD SCHEDULE SBD. EDP RM 158
 FOR 480Y/277 VOLT, THREE PHASE, 4-WIRE SERVICE. PROVIDE GROUND BAR.
 4000 AMP BUS. 42,000 AIR SYMMETRICAL ALL BREAKERS. AVAILABLE SHORT CIRCUIT CURRENT 28316 AMPS.

SERVING	WIRE			BREAKER	COND. SIZE	CIR. NO.	CONNECTED LOAD VA		CIR. NO.	COND. SIZE	BREAKER	WIRE	SERVING	
	HOT	NEUT	GRD				AMPS	POLES						GRD
FP-1*	350	4/0	1600	3	1	1	66480	66480	2	3	1600	4/0	350	FP-2*
							66480	66480	4					
							66480	66480	6					
FP-3* (STANDBY FIRE PUMP)							66480	12875	8	3	225	4	4/0	EM. PANEL BOARD (EP)
							66480	12875	10					
							66480	12875	12					

* INSTANTANEOUS TRIP ONLY
 FP-1, 2 (398880 VA) X 1.25 = 498600 VA
 EM. PANEL = 38625 VA
 TOTAL = 801275 VA (964 AMP.)

SWITCHBOARD SCHEDULE SBD. MDP RM 132
 FOR 480Y/277 VOLT, THREE PHASE, 4-WIRE SERVICE. PROVIDE GROUND BAR.
 2000 AMP. MAIN, GPF, 100% RATED, 65000 AIR SYMMETRICAL ALL BREAKERS. AVAILABLE SHORT CIRCUIT CURRENT 33193 AMPS.

SERVING	WIRE			BREAKER	COND. SIZE	CIR. NO.	CONNECTED LOAD VA		CIR. NO.	COND. SIZE	BREAKER	WIRE	SERVING			
	HOT	NEUT	GRD				AMPS	POLES						GRD	NEUT	HOT
MW PBD.	4-600	4-4/0	1600	3	3	1	342110	66348	2	2-3	3	600	3-1	350	2-350	LPW PBD.
							342110	66348	4							
							342110	66348	6							
LPS PBD.	350	350	4	300	3	3	29952		8	3	400					SPARE BREAKER
							29952		10							
							29952		12							

MW PANEL BOARD = 1026330 VA
 LPW PANEL BOARD = 259043 VA
 LPS PANEL BOARD = 89858 VA
 TOTAL = 1370732 VA (1655 AMPS)

BRANCH CIRCUIT PANELBOARD SCHEDULE PBD. LPS, RM 117
 FOR 480Y/277 VOLT, THREE PHASE, 4-WIRE SERVICE. PROVIDE GROUND BAR.
 300 AMP. MLO, 42000 AIR ALL BREAKERS. AVAILABLE FAULT CURRENT 22916 AMPS.

SERVING	WIRE			BREAKER	COND. SIZE	CIR. NO.	CONNECTED LOAD VA		CIR. NO.	COND. SIZE	BREAKER	WIRE	SERVING		
	HOT	NEUT	GRD				AMPS	POLES						GRD	NEUT
101-105, O/S DIN LTGS	10	10	10	20	1	1	3025	2800	2	3/4	1	20	10	10	400 PER OUTSIDE (4 IN. CIRC. 1000 AMP)
LIGHTING RM 106-119	10	10	10	20	1	3	2960	840	4						EM & EXIT LGT OFFICES
SPARE				20		5	1560		6						LIGHTING RM 128, 129, 131
SPARE				20		7	3000		8						LIGHTING RM 121-127
VAV-1	10	10	10	30	3/4	9	5000	5000	10	3/4	1	30	10	10	VAV-2,3,4,5
VAV-5,7,8,10	10	10	10	30	3/4	11	5000	4000	12	3/4	1	30	10	10	VAV-11,12,13,14
SPARE				20		13			14			20			SPARE
SPARE				20		15			16			20			SPARE
SPARE				20		17			18			20			SPARE
HANGAR 3P, 30A, RECEPT.	10	10	10	30	3	3/4	1500	15655	20	1.25	3	125	6	2	TRANSFORMER T4
							21	1500	15655	22					
							23	1500	15655	24					
							25		26						SPACE
							27		28						
							29		30						
							31		32						
							33		34						
							35		36						
							37		38						
							39		40						
							41		42						

LIGHTING 15515 X 1.25 = 19394 VA
 VAV 1-14 = 19000 VA
 HANGAR RECEPTACLE = 4500 VA
 TRANSFORMER T4 = 46964 VA
 TOTAL = 89858 VA (108 AMPS)

BRANCH CIRCUIT PANELBOARD SCHEDULE PBD. LPW, RM 132
 FOR 480Y/277 VOLT, THREE PHASE, 4-WIRE SERVICE. PROVIDE GROUND BAR.
 600 AMP. MLO, 42,000 AIR SYMMETRICAL ALL BREAKERS. AVAILABLE SHORT CIRCUIT CURRENT 28739 AMPS.

SERVING	WIRE			BREAKER	COND. SIZE	CIR. NO.	CONNECTED LOAD VA		CIR. NO.	COND. SIZE	BREAKER	WIRE	SERVING				
	HOT	NEUT	GRD				AMPS	POLES						GRD	NEUT	HOT	
OVERHEAD DOORS (4)	10	10	10	20	1	3/4	1	2600	1950	2	3/4	1	20	10	10	OVERHEAD DOORS (3)	
LTC RM 132-135							3	2280	2160	4						LGT RM 147, 151	
LTC RM 136-146, 148							5	2840	2560	6						LGT RM 152-155	
LTC RM 156-159							7	2160	560	8	3/4					FLAG POLE LIGHTS	
EXTERIOR LIGHTS	10	10	10	20	1	3/4	9	800	800	10	1	20	12	12	12	EM & EXIT LGTS 132-151	
EM & EXIT LGTS 152-159	10	10	10	20	1	3/4	11	800		12						SPARE	
SPARE OVERHEAD DOORS							13	2200		14						EUH-1,2 (RM 133,132)	
SPARE							15	2200		16							
SPARE							17	2200		18							
TRANSFORMER T3	2	6	125	3	1.25	19	11428	16848	20	1.25	3	125	6	2		TRANSFORMER T2	
							21	11428	16848	22							
							23	11428	16848	24							
PNL BOARD LPH	300	300	4	225	3	3	25	42019	3000	26	1.25	3	60	6	4	4	HANGAR 30A, 3P, RECEPT.
							27	42019	3000	28							
							29	42019	3000	30							
SPARE				20	1		31			32	1	20				SPARE	
							33			34							
							35			36							
							37			38							
							39			40							
							41			42							

OVERHEAD DOORS = 4550 VA
 LIGHTING 14760 VA X 1.25 = 18450 VA
 TRANSFORMER T3 = 34284 VA
 EUH 1,2 = 6600 VA
 3P HANGAR RECEPT. = 9000 VA
 PANEL BOARD LPH = 126058 VA
 TRANSFORMER T2 = 50544 VA
 LARGEST LOAD X .25 = 9557 VA
 TOTAL = 259043 VA (312 AMPS)

BRANCH CIRCUIT PANELBOARD SCHEDULE PBD. LPH, RM 160
 FOR 480Y/277 VOLT, THREE PHASE, 4-WIRE SERVICE. PROVIDE GROUND BAR NEMA 3R ENCLOSURE
 225 AMP. MLO, 22,000 AIR SYMMETRICAL SWD RATED ALL BREAKERS. AVAILABLE FAULT CURRENT 17493 AMPS.

SERVING	WIRE			BREAKER	COND. SIZE	CIR. NO.	CONNECTED LOAD VA		CIR. NO.	COND. SIZE	BREAKER	WIRE	SERVING			
	HOT	NEUT	GRD				AMPS	POLES						GRD	NEUT	HOT
HANGAR BAY LIGHTING	10	10	10	30	1	3/4	1	3206	3206	2	3/4	1	30	10	10	HANGAR BAY LIGHTING
							3	4122	4580	4						
							5	4122	4580	6						
							7	4122	4122	8						
							9	4122	4580	10						
							11	4122	4580	12						
							13	4122	4122	14						
							15	4122	4580	16						
							17	4122	4580	18						
							19	4122	4580	20						
							21	2748	2748	22						
HANGAR BAY ALWAYS ON LIGHTING							23	4956	4956	24						HANGAR BAY ALWAYS ON LIGHTING
HANGAR BAY EMERGENCY LIGHTING							25	1625		26						SPARE
SPARE							27			28						
							29			30						
							31			32						
							33			34						
							35			36						
							37			38						
							39			40						
							41			42						

LIGHTING 100847 VA X 1.25 = 126058 VA
 TOTAL = 152 AMPS

BRANCH CIRCUIT PANELBOARD SCHEDULE PBD. MW, RM 132
 FOR 480Y/277 VOLT, THREE PHASE, 4-WIRE SERVICE. PROVIDE GROUND BAR.
 1600 AMP MAIN, GPF, W/24 VDC SHUNT TRIP, 42000 AIR SYMMETRICAL ALL BREAKERS. AVAILABLE SHORT CIRCUIT CURRENT 31725 AMPS.

SERVING	WIRE			BREAKER	COND. SIZE	CIR. NO.	CONNECTED LOAD VA		CIR. NO.	COND. SIZE	BREAKER	WIRE	SERVING				
	HOT	NEUT	GRD				AMPS	POLES						GRD	NEUT	HOT	
RTU-1	500			3	350	3	4	1	91964	25000	2	1.5	3	150	6	1/0	RTU-2
							3	91964	25000	4							
							5	91964	25000	6							
RTU-3							2	7	91964	11911	8	1	60	8	6		RTU-4
							9	91964	11911	10							
							11	91964	11911								

DATE			MAY 2006
REVISIONS			
NO	DATE	DESCRIPTION	
1	7/5	ADD EQUIP	
2	8/18	100% COMM.	
DRAWN BY: CHKD BY:			
HR		HR	

BRANCH CIRCUIT PANELBOARD SCHEDULE PBD. SPW, RM 132

FOR 208Y/120 VOLT, THREE PHASE, 4-WIRE SERVICE. PROVIDE GROUND BAR.
225 AMP. MAINS, 10,000 AIR SYMMETRICAL ALL BREAKERS. AVAILABLE FAULT CURRENT 8200 AMPS (BASED ON 2.5 %Z FOR T2).

SERVING	WIRE			BREAKER	COND SIZE	CIR NO	CONNECTED LOAD VA		COND SIZE	BREAKER	WIRE			SERVING		
	HOT	NEUT	GRD				AMP	POLES			CIR NO	POLES	AMP		GRD	NEUT
EF-3	12	12	12	20	1	1/2	528	1056	2	1/2	1	20	12	12	12	EF-1, 2
GEN. RECEPT. 132, 133	10	10	10				1400	1400	4	3/4	3	10	10	10		GEN. RECEPT. 134
GEN. RECEPT. 137, 143	10	10	10						6	3/4		10	10	10		GEN. RECEPT. 135
GEN. RECEPT. 136, 144, 145	10	10	10						8	3/4		10	10	10		GEN. RECEPT. 146, 147
GEN. RECEPT. 146, 148	10	10	10						10	3/4		10	10	10		GFCI 147, RTU 1, 2, 3, CU 1
DISPOSAL (RM 147)	10	10	10				750	1500	12	3/4		10	10	10		VENDING MACH (RM 147)
FLGT SVC STA APRON LTG	8	8	8	50	2	3/4	2250	2250	14	3/4	2	30	10	10	10	WTR HTR RM 145 (50GAL)
							15	2250	2250	16						
FLGT SVC STA APRON LTG	10	10	10	20	2	3/4	1440	400	18	1	2	30	10	10	10	GATE OPERATOR
							19	1440	400	20						
AIR DRYER	10	10	10	20	2	3/4	600	1800	22	1	2	20	10	10	10	SECURITY CNTRL PNL
							23	600	1800	24						
MOTORIZED DAMPER RM 132	12	12	12	15	1	1/2	150	2290	26	3/4	2	30	10	10	10	CU & AHU-1 RM 151
MOTORIZED DAMPER RM 133	12	12	12	15	1	1/2	150	2290	28							
3-PHASE EQ.	8	8	8	50	3	3/4	3000	1400	30	3/4	1	30	10	10	10	GEN. RECEPT. (HANGAR)
							31	3000	1500	32	3/4	1	30	10	10	ICE MAKER RM 141
							33	3000		34	1	20				SPARE
SPARE				20	1		35			36	1	20				
				20	1		37			38	1	20				
				20	1		39			40	1	20				
				20	1		41			42	1	20				

- EF-1, 2, 3 = 1584 VA
- GEN. RECEPTS AND APPLIANCES = 13450 VA
- WATER HEATER = 4500 VA
- GATE OPERATOR (2) = 800 VA
- APRON LIGHTING = 7380 VA
- AIR DRYER = 1200 VA
- 3-PHASE EQUIPMENTS = 9000 VA
- CU & AHU-1 = 5280 VA
- SECURITY CONTROL PANEL = 3600 VA
- ICE MAKER = 1500 VA
- LARGEST MOTOR X .25 = 2250 VA
- TOTAL = 50544 VA (140 AMPS)

BRANCH CIRCUIT PANELBOARD SCHEDULE PBD: SPN, RM 158

FOR 208Y/120 VOLT, THREE PHASE, 4-WIRE SERVICE. PROVIDE GROUND BAR.
225 AMP. MAINS, 10,000 AIR SYMMETRICAL ALL BREAKERS. AVAILABLE FAULT CURRENT 8200 AMPS (BASED ON 2.5 %Z FOR T3).

SERVING	WIRE			BREAKER	COND SIZE	CIR NO	CONNECTED LOAD VA		COND SIZE	BREAKER	WIRE			SERVING		
	HOT	NEUT	GRD				AMP	POLES			CIR NO	POLES	AMP		GRD	NEUT
EF-4, 5, 6	10	10	10	20	1	3/4	1584	1400	2	3/4	1	30	10	10	10	GEN. RECEPT. (HANGAR)
IT EQUIPMENT	10	10	10	30			2400	1400	4	3/4		30	10	10	10	GEN. RECEPT. (HANGAR)
IT EQUIPMENT	10	10	10	30			2400	1400	6	3/4		30	10	10	10	GEN. RECEPT. (HANGAR)
IT EQUIPMENT	10	10	10	30			2400		8			20				SPARE
GEN. RECEPTACLES	10	10	10	20			3/4	9	1400	10	3/4		10	10	10	GEN. RECEPTACLES
							11			12						
							13			14						
							15			16						
							17			18						
							19			20						
							21			22						
							23			24						
							25			26						
							27			28						
							29			30						
							31			32						
							33			34						
							35			36						
							37			38						
							39			40						
							41			42						

- GEN. RECEPT. = 25200 VA
- EF-4, 5, 6 = 1584 VA
- DAMPERS (2) = 300 VA
- IT EQ. = 7200 VA
- TOTAL = 34284 VA (95 AMP.)

BRANCH CIRCUIT PANELBOARD SCHEDULE PBD. SPS RM 117

FOR 208Y/120 VOLT, THREE PHASE, 4-WIRE SERVICE. PROVIDE GROUND BAR.
225 AMP. MAINS, 10,000 AIR SYMMETRICAL ALL BREAKERS. AVAILABLE FAULT CURRENT 8200 AMPS (BASED ON 2.5 %Z FOR T4).

SERVING	WIRE			BREAKER	COND SIZE	CIR NO	CONNECTED LOAD VA		COND SIZE	BREAKER	WIRE			SERVING		
	HOT	NEUT	GRD				AMP	POLES			CIR NO	POLES	AMP		GRD	NEUT
EF-7, 8	12	12	12	20	1		1056	1500	2							REFRIGERATOR
GEN. OFFICE RECEPTACLES							3	1400	750	4						DISPOSAL
							5		1250	6						DISHWASHER
							7		1400	8			12	12	12	GEN. OFFICE RECEPTACLES
							9			10						
							11			12						
							13			14						
							15			16						
							17			18						
							19			20						
							21			22						
							23			24						
							25			26						
							27			28						
							29			30						
							31			32						
							33			34						
							35			36						
							37			38						
							39			40						
							41			42						

- GEN. RECEPT. = 26600 VA
- APPLIANCES = 5000 VA
- WATER HEATER = 4500 VA
- COMMUNICATION ELECTRONICS = 6000 VA
- CU & AHU-2 = 3328 VA
- EF-6, 7 = 1056 VA
- LARGEST MOTOR X 0.25 = 480 VA
- TOTAL = 46964 VA (130 AMPS.)

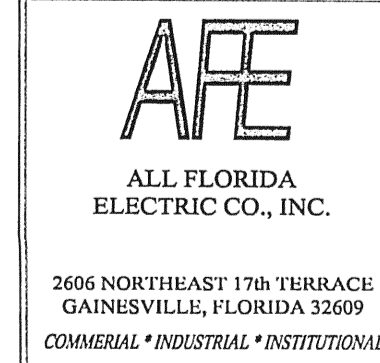
BRANCH CIRCUIT PANELBOARD SCHEDULE PBD. LV, RM 158

FOR 120/240 VOLT, SINGLE PHASE, 3-WIRE SERVICE. PROVIDE GROUND BAR.
100 AMP PANEL WITH 100 AMP MAIN BREAKER, 10,000 AIR SYMMETRICAL ALL BREAKERS. AVAILABLE FAULT CURRENT 2400 AMPS (BASED ON 2.5 %Z FOR T5).

SERVING	WIRE			BREAKER	COND SIZE	CIR NO	CONNECTED LOAD VA		COND SIZE	BREAKER	WIRE			SERVING		
	HOT	NEUT	GRD				AMP	POLES			CIR NO	POLES	AMP		GRD	NEUT
SECURITY CONTROL PANEL	10	10	10	20	1	3/4	150	300	2	1/2	1	20	12	12	12	FIRE ALARM CONTROL PNL
DIVERSION VALVE 1	10	10	10				100	100	4	1/2	1	20	12	12	12	POND VALVE
SPACE								736	6	1	1	20	10	6	6	DRY PIPE COMP. (RM 117)
									8							SPACE
									10							
									11							FIRE ALARM PNL
									12							FIRE ALARM PNL
									13							
									15							
									16							
									17							
									18							
									19							
									20							

- SECURITY CONTROL PNL = 150 VA
- FIRE ALARM CONTROL PNL = 300 VA
- DIVERSION AND POND VALVE = 200 VA
- DRY PUMP COMPRESSOR = 736 VA
- LARGEST PUMP X 0.25 = 184 VA
- TOTAL = 1570 VA (6.5 AMPS)

THE ECLIPSE AVIATION
 SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
 GAINESVILLE REGIONAL AIRPORT, GAINESVILLE, FL
 208Y120 AND 120/240 VOLT SYSTEM PANEL SCHEDULE



APR 10 2007

HAMID REZAEI, PE
13521 SW 4TH LN
NEWBERRY, FL 32669
352-665-1418
PE# 52085

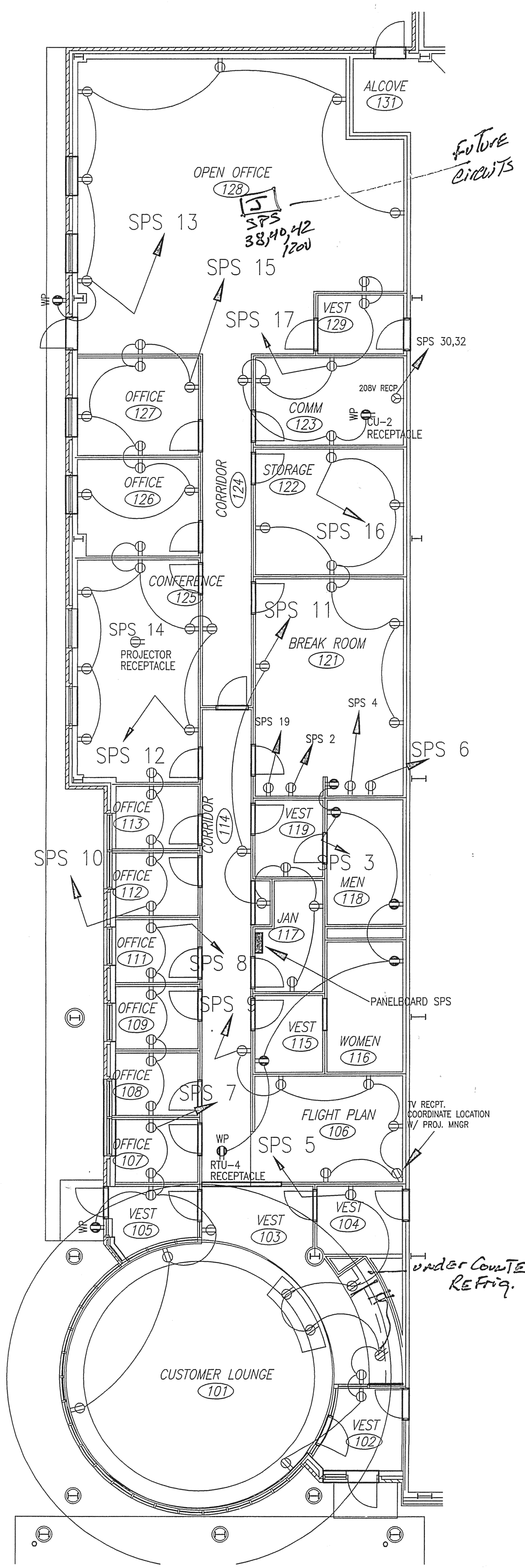
E-4

DATE JULY 2006

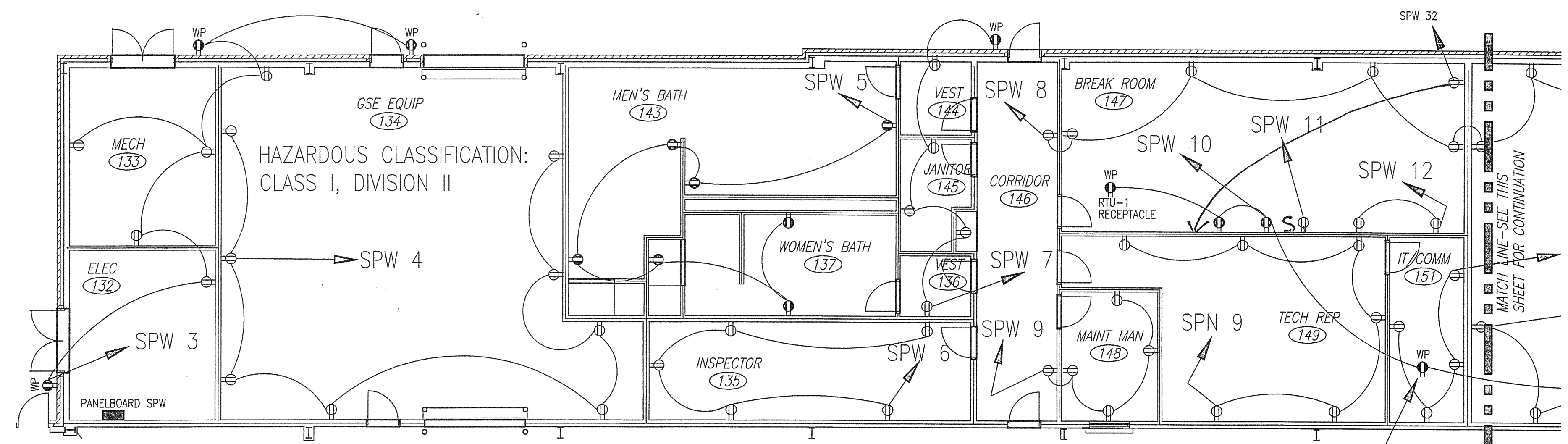
REVISIONS		
NO	DATE	DESCRIPTION
1	8/18	100% COMM.

DRAWN BY: _____ CHKD BY: _____
 HR _____ HR _____

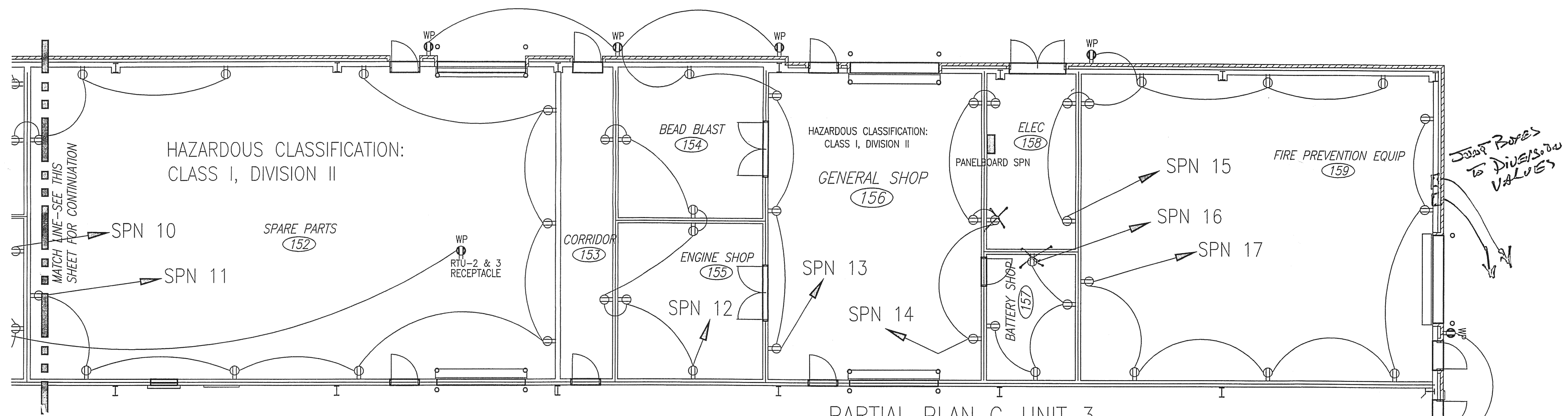
THE ECLIPSE AVIATION
 SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
 GAINESVILLE REGIONAL AIRPORT, GAINESVILLE, FLORIDA
 OFFICES AND SHOPS RECEPTACLS LAYOUT



PARTIAL PLAN A-UNIT 2
 SCALE: 1/8" = 1'-0"



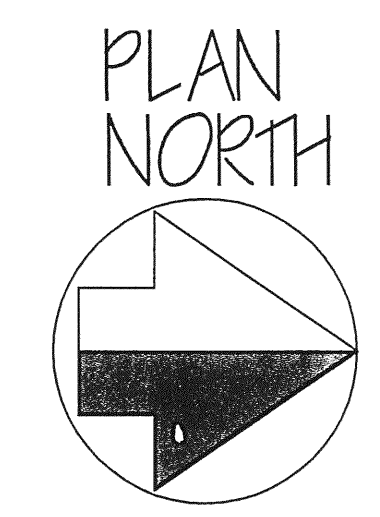
PARTIAL PLAN B-UNIT 3
 SCALE: 1/8" = 1'-0"



PARTIAL PLAN C-UNIT 3
 SCALE: 1/8" = 1'-0"

ELECTRICAL LEGEND

- ⊕ DUPLEX CONVENIENCE OUTLET WITH GROUND NEMA 5-20R. 20 AMPERE.
- ⊕ GFCI, 20A, DUPLEX RECEPTACLE, NEMA 5-20R MOUNTED 42" AF, 8" ABOVE COUNTER TOP (TO CLEAR SPLASH), OR AS NOTED.
- WP ⊕ WEATHER PROOF, GFCI, 20A, DUPLEX RECEPTACLE, NEMA 5-20R MOUNTED 42" AF,
- ⊕ SPECIAL PURPOSE OUTLET. SIZE AND TYPE AS NOTED ON DRAWINGS.
- ⊕ EQUIPMENT CONNECTION OUTLET-VERIFY EXACT LOCATION.
- ⊕ 4"x4" ELECT. JUNCTION BOX
- ⊕ SINGLE POLE FLUSH SWITCH, QUIET TYPE, 48" AF MAXIMUM, 44" AF MINIMUM.
- ⊕ 3-WAY, 4-WAY, FLUSH SWITCH, 48" AF MAXIMUM, 44" AF MINIMUM.
- ⊕ 1500 WATT DIMMER SWITCH WITH ON-OFF FEATURE, 48" AF MAXIMUM, 44" AF MINIMUM.
- ⊕ FRACTIONAL HP MANUAL MOTOR STARTER WITH OVERLOADS.
- WP WEATHERPROOF.
- AF ABOVE FINISHED FLOOR TO CENTER LINE.
- EGC EQUIPMENT GROUNDING CONDUCTOR, REQUIRED FOR ALL CIRCUITS.
- GFCI GROUND FAULT INTERRUPTER RECEPTACLE.
- EWH ELECTRIC WATER HEATER.



APR 10 2007

HAMID REZAEI, PE
 13521 SW 4TH LN
 NEWBERRY, FL 32669
 352-665-1418
 PE# 52085

A/E
 ALL FLORIDA
 ELECTRIC CO., INC.
 2606 NORTHEAST 17th TERRACE
 GAINESVILLE, FLORIDA 32609
 COMMERCIAL * INDUSTRIAL * INSTITUTIONAL

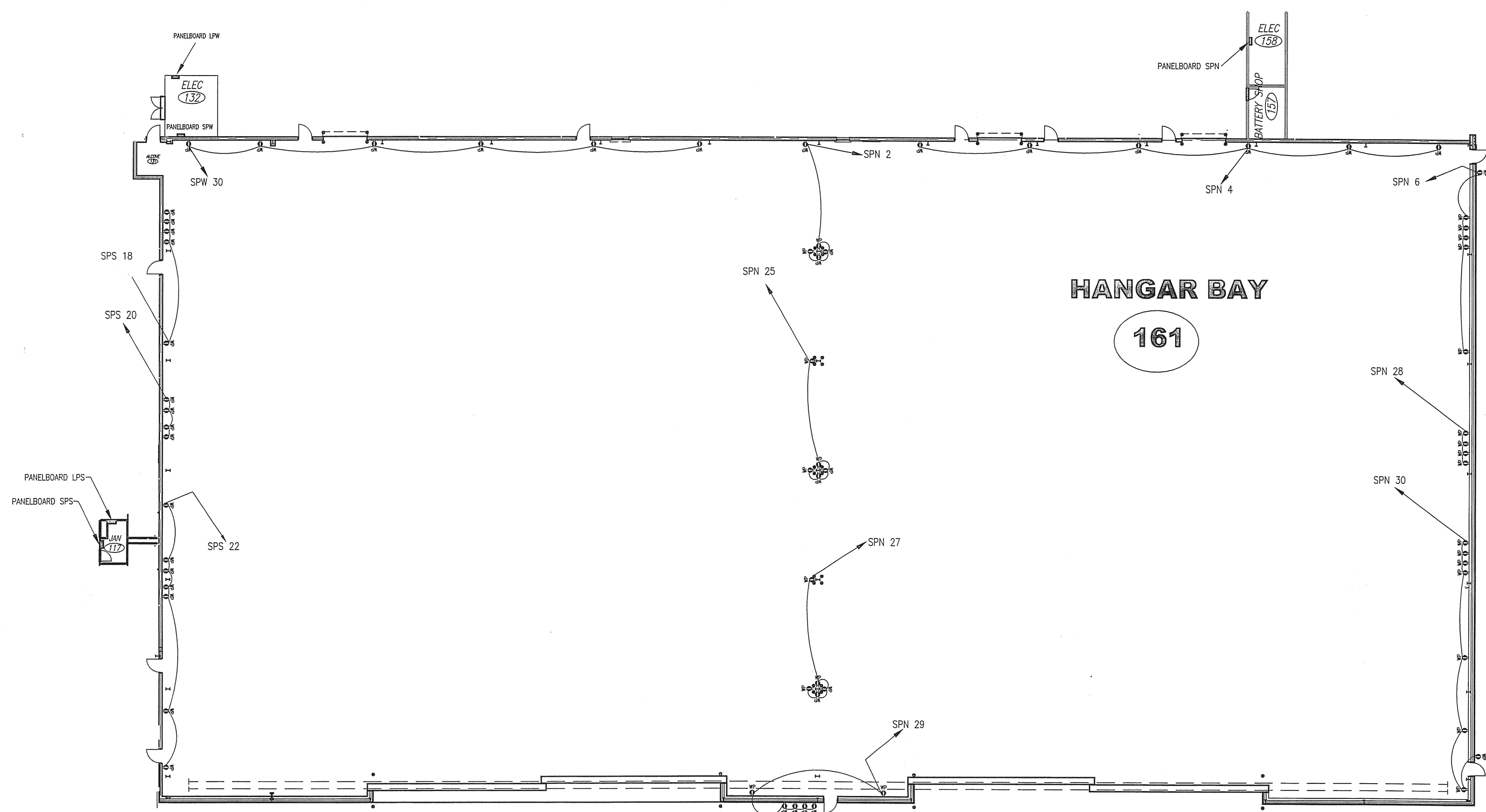
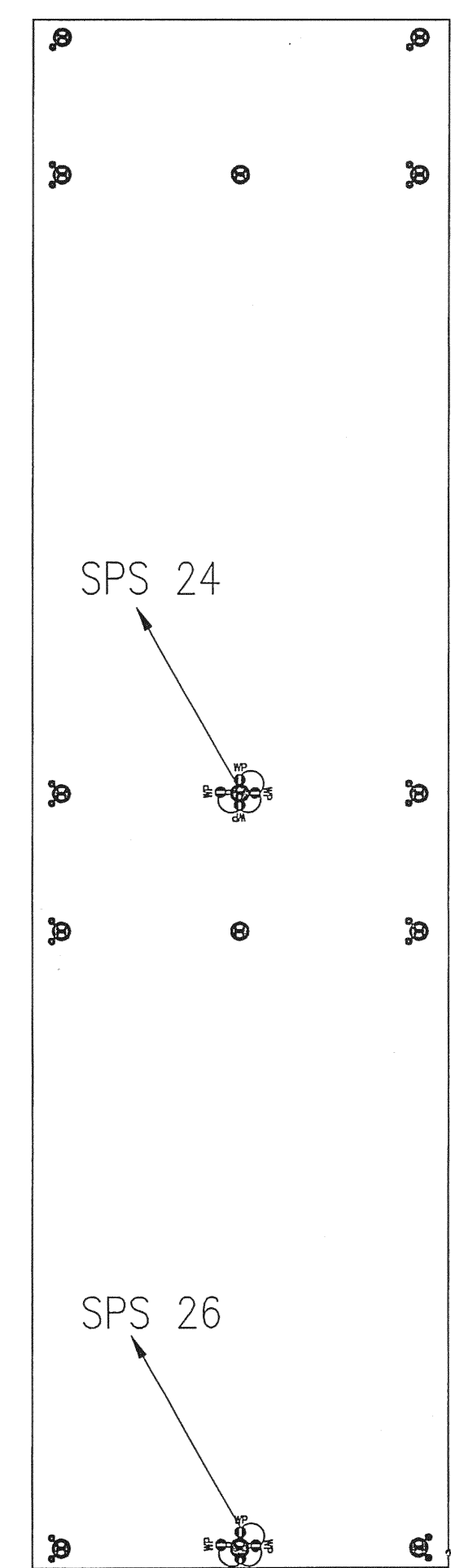
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REVISIONS

NO	DATE	DESCRIPTION
1	8/18	100% COM.

DRAWN BY: CHKD BY:
HR

CANOPY

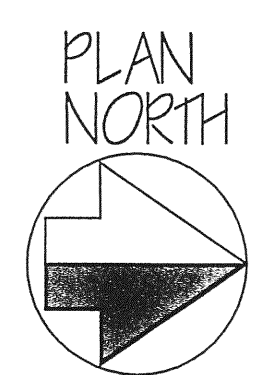


HANGAR BAY
161

HANGAR AND CANOPY RECEPTACLE PLAN

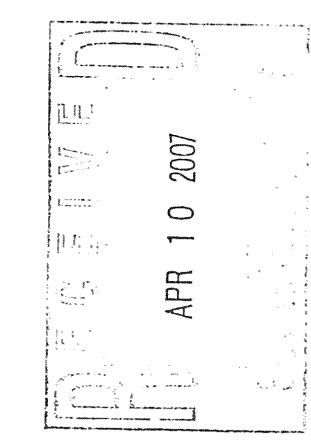
ELECTRICAL LEGEND

- ⊕ DUPLEX CONVENIENCE OUTLET WITH GROUND NEMA 5-20R. 20 AMPERE.
- ⊕ GFCI, 20A, DUPLEX RECEPTACLE, NEMA 5-20R MOUNTED 42" AF, 8" ABOVE COUNTER TOP (TO CLEAR SPLASH), OR AS NOTED.
- WP ⊕ WEATHER PROOF, GFCI, 20A, DUPLEX RECEPTACLE, NEMA 5-20R MOUNTED 42" AF.
- ⊕ SPECIAL PURPOSE OUTLET. SIZE AND TYPE AS NOTED ON DRAWINGS.
- ⊕ EQUIPMENT CONNECTION OUTLET-VERIFY EXACT LOCATION.
- ⊕ 4"x4" ELECT. JUNCTION BOX
- S SINGLE POLE FLUSH SWITCH, QUIET TYPE, 48" AF MAXIMUM, 44" AF MINIMUM.
- S3 S4 3-WAY, 4-WAY, FLUSH SWITCH, 48" AF MAXIMUM, 44" AF MINIMUM.
- S_D 1500 WATT DIMMER SWITCH WITH ON-OFF FEATURE, 48" AF MAXIMUM, 44" AF MINIMUM.
- S_M FRACTIONAL HP MANUAL MOTOR STARTER WITH OVERLOADS.
- WP WEATHERPROOF.
- AF ABOVE FINISHED FLOOR TO CENTER LINE.
- EGC EQUIPMENT GROUNDING CONDUCTOR, REQUIRED FOR ALL CIRCUITS.
- GFI GROUND FAULT INTERRUPTER RECEPTACLE.
- EWI ELECTRIC WATER HEATER.
- ⊕ 480V, 3-PHASE, 5 WIRE, 30A, RECEPTACLE



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

THE ECLIPSE AVIATION
 SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
 GAINESVILLE REGIONAL AIRPORT, GAINESVILLE, FL
 HANGAR AND CANOPY LOW VOLTAGE RECEPTACLES LAYOUT


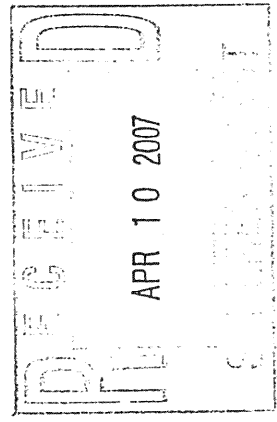


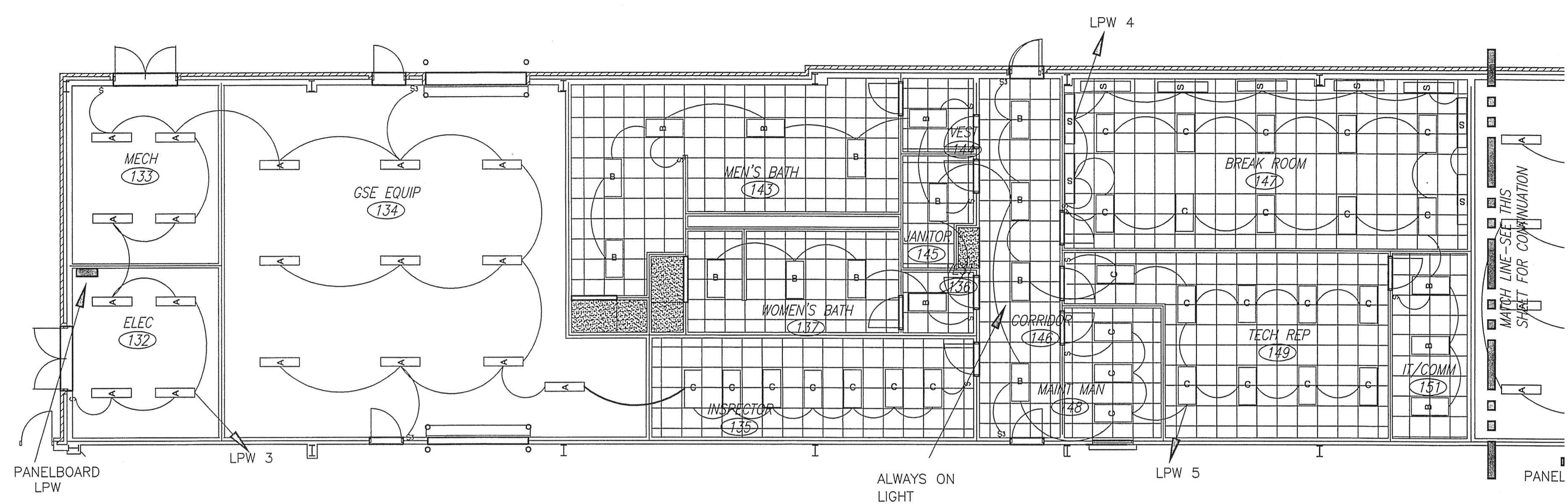
HAMID REZAEI, PE
 13521 SW 4TH LN
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 352-665-1418
 PE# 52085

AE
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 2606 NORTHEAST 17th TERRACE
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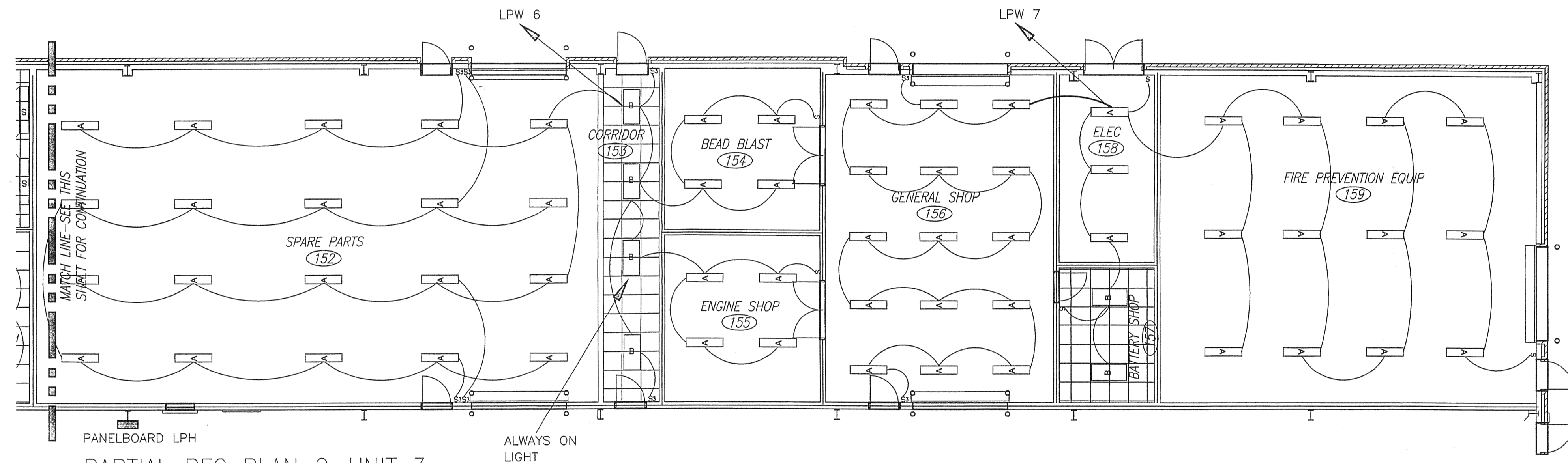
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REVISIONS		
NO	DATE	DESCRIPTION
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2	8/18	100% COMM.
3	8/31	*
* RM 122,123,147 LTGS		
DRAWN BY: CHKD BY:		
HR	HR	

THE ECLIPSE AVIATION
 SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
 GAINESVILLE REGIONAL AIRPORTS, GAINESVILLE, FL
 OFFICES AND SHOPS LIGHTING LAYOUT

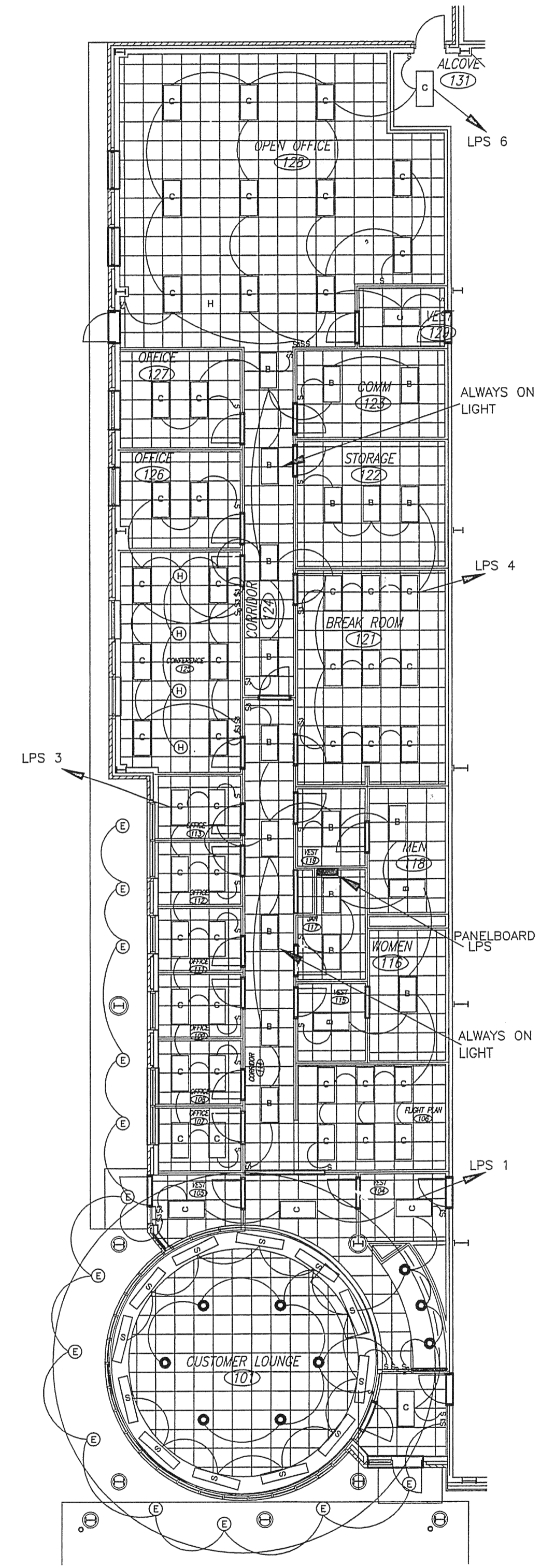

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 APR 10 2007
 E-6
 HAMID REZAEI, PE
 13521 SW 4TH LN
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 352-665-1418
 PE# 52085



PARTIAL RFC PLAN B-UNIT 3
 SCALE: 1/8" = 1'-0"























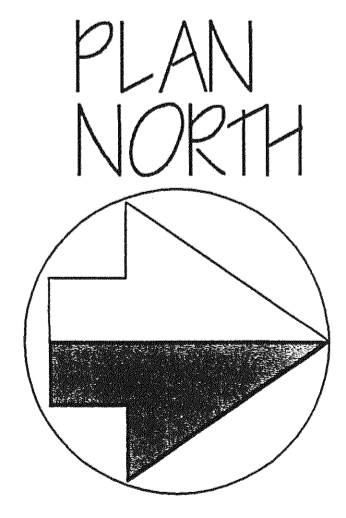
PARTIAL RFC PLAN C-UNIT 3
 SCALE: 1/8" = 1'-0"



PARTIAL RFC PLAN A-UNIT 2
 SCALE: 1/8" = 1'-0"

LIGHTING LEGEND ALL LIGHTING CIRCUITS SHALL BE 277 VAC.

-  2-LAMP, 32W, T-8 INDUSTRIAL FLUORESCENT CHAIN HUNG, 1' x 4' FIXTURE. MOUNTED 10' ABOVE FLOOR. QUANTITY UTILIZED = 76
-  2-LAMP, 32W, T-8 RECESSED FLUORESCENT FIXTURE WITH PRISMATIC LENS, 2' x 4'. QUANTITY UTILIZED = 45
-  3-LAMP, 32W, T-8 RECESSED FLUORESCENT FIXTURE WITH 3" DEEP NON-SPECULAR SILVER 24-CELL PARABOLIC BAFFELS, 2' x 4'. QUANTITY UTILIZED = 63
-  2-LAMP, 32W, T-8, 4' LONG FLUORESCENT STRIP FIXTURE INSTALLED IN ARCHITECTURAL COVE LIGHTING. QUANTITY UTILIZED = 21
-  ONE LAMP, 400W, PENDANT MOUNT, METAL HALIDE, HIGH BAY, ENCLOSED FIXTURE, POWER HOOK, CORD & PLUG. THE MOUNTING HEIGHT SHALL BE MAINTAINED AT 25'-4" AFF. 16 OF THESE FIXTURES SHALL HAVE MULTI-TAP BALLAST TO POWER A 120 VAC, 250W, AUTOMATICALLY SWITCHED QUARTZ AUXILIARY LAMP FOR COLD START-UP AND HOT-RESTRIKE. QUANTITY UTILIZED = 210.
-  1-LAMP, 70W, ROUND, HPS, DOWNLIGHT, WITH CLEAR LENS SUITABLE FOR DAMP LOCATIONS. QUANTITY UTILIZED = 13
-  1-LAMP, 70W, ROUND, GROUND RECESSED, METAL HALIDE, FLAG-POLE LIGHTING FIXTURE. QUANTITY UTILIZED = 7
-  1-LAMP, 70W, SURFACE MOUNTED, HPS, WEATHER-PROOF, AREA LIGHT. QUANTITY UTILIZED = 12
-  1-LAMP, 32W, RECESSED, DOWNLIGHT, DIMMABLE, COMPACT FLUORESCENT LIGHT. QUANTITY UTILIZED = 4
-  3-LAMP, 40W, DIMMABLE, TRACK LIGHT. QUANTITY UTILIZED = 6
-  INTERIOR RECESSED, 7 3/8", COMPACT, FLUORESCENT, ELECTRONIC, 4-PIN LAMP, DOWNLIGHT MINIMUM 2018 LUMENS. QUANTITY UTILIZED = 9
-  400W, HPS, FLOOD LIGHT. QUANTITY UTILIZED = 4
-  3-HEAD, 75W, WALL-MOUNTED EMERGENCY LIGHT WITH 90-MINUTE INTEGRAL BATTERY. QUANTITY UTILIZED = 22
-  2-HEAD, 50W, WALL-MOUNTED EMERGENCY LIGHT WITH 90-MINUTE INTEGRAL BATTERY. QUANTITY UTILIZED = 30
-  70W, WALL-MOUNTED, HPS WALL PACK, LIGHT FIXTURE. QUANTITY UTILIZED = 15
-  RED LED ILLUMINATED EXIT SIGN WITH 90-MINUTE INTEGRAL BATTERY. QUANTITY UTILIZED = 28
-  SINGLE POLE FLUSH SWITCH, QUIET TYPE, 48" AF MAXIMUM, 44" AF MINIMUM.
-  3-WAY, 4-WAY, FLUSH SWITCH, 48" AF MAXIMUM, 44" AF MINIMUM.
-  1500 WATT DIMMER SWITCH WITH ON-OFF FEATURE, 48" AF MAXIMUM, 44" AF MINIMUM.
-  PHOTO-CELL CONTROLLED CONTACTOR

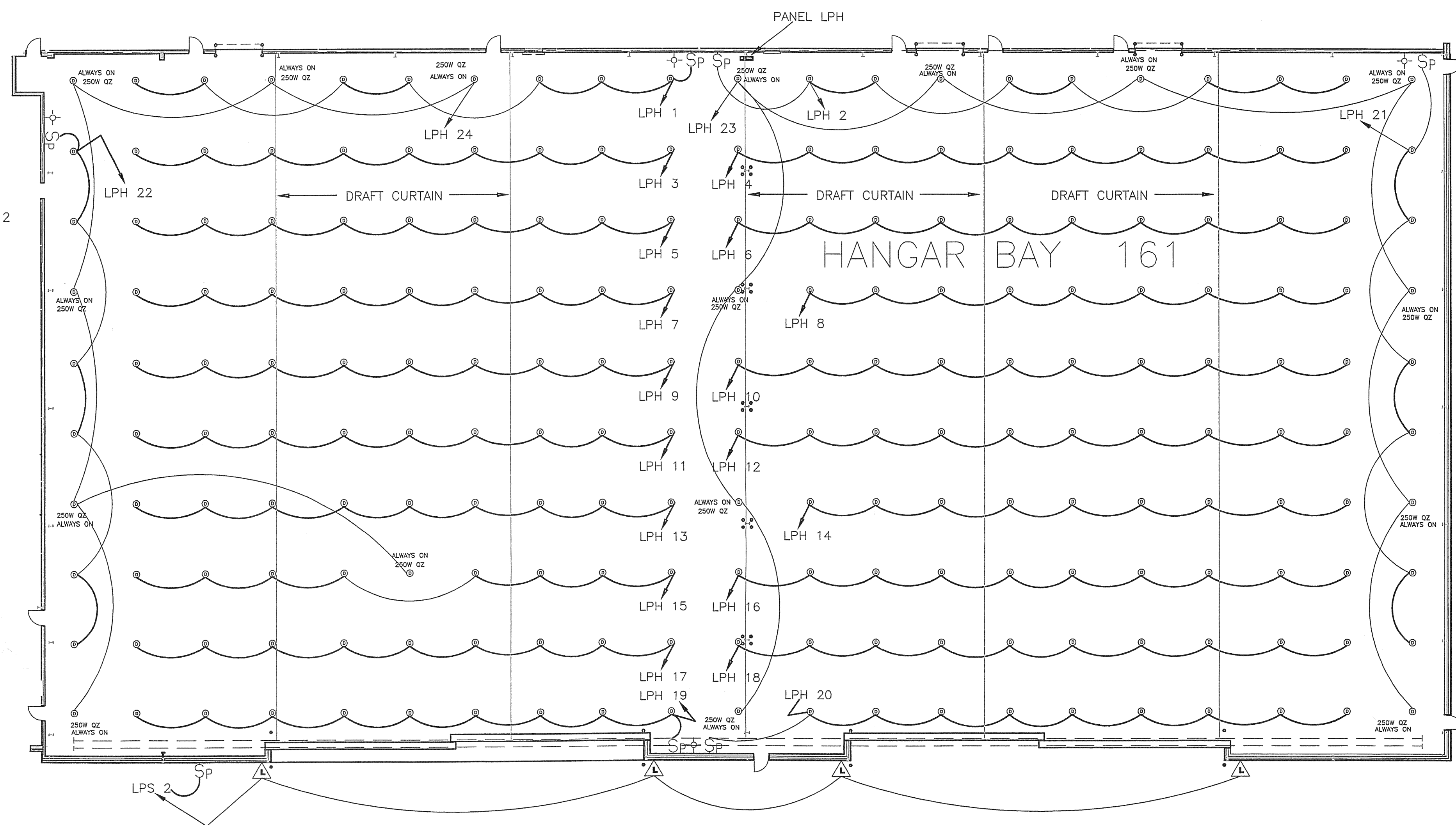
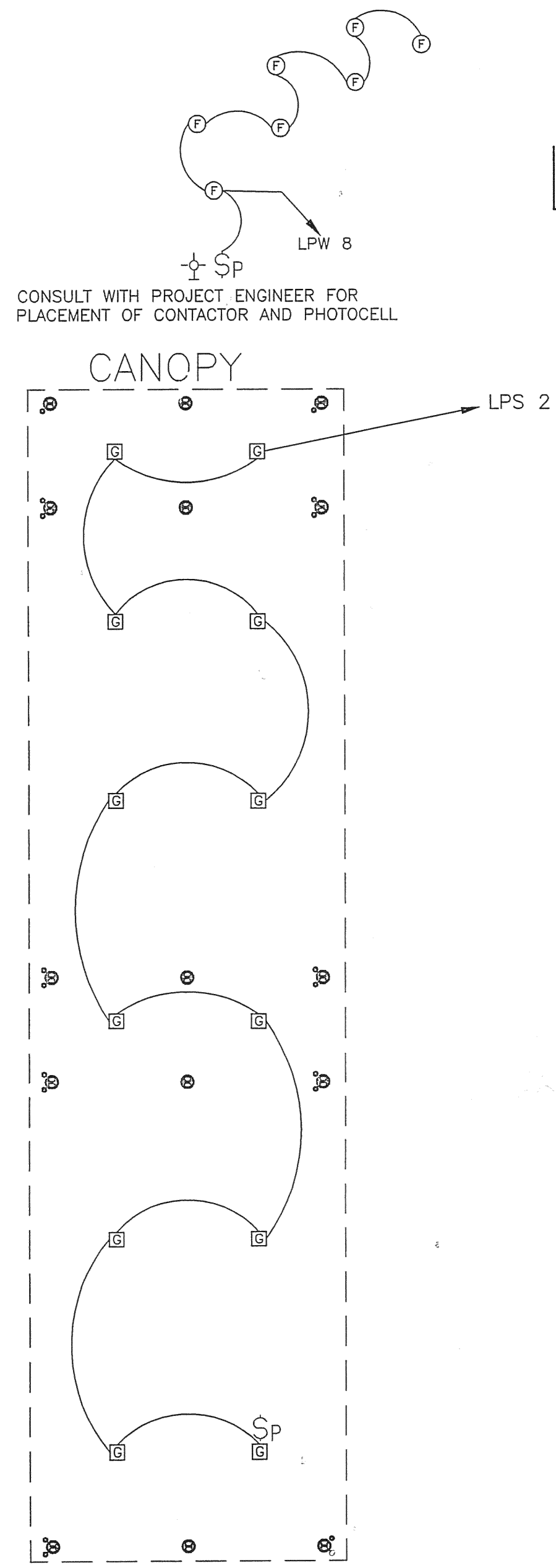


REVISIONS

NO	DATE	DESCRIPTION
1	8/18	100% COM.

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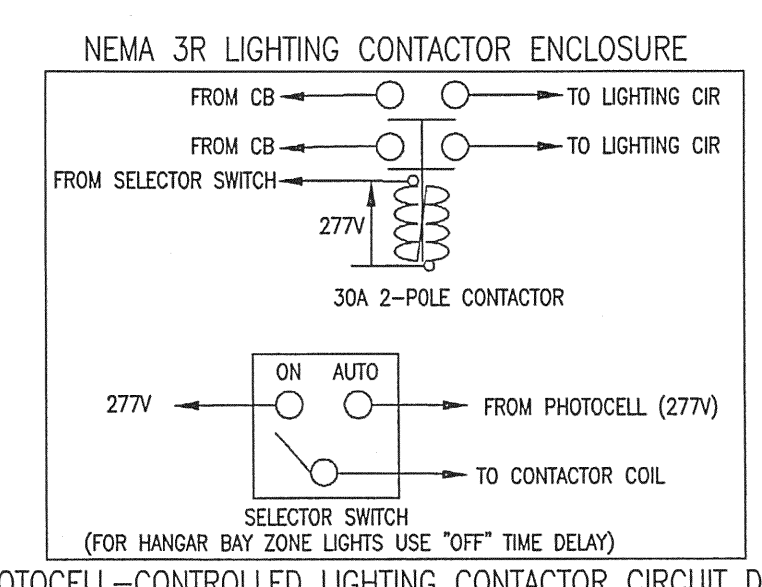
THE ECLIPSE AVIATION
 SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
 GAINESVILLE REGIONAL AIRPORT, GAINESVILLE, FL
 HANGAR AND CANOPY LIGHTING



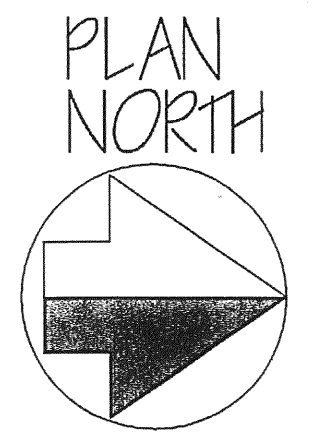
LIGHTING LEGEND ALL LIGHTING CIRCUITS SHALL BE 277 VAC.

- A 2-LAMP, 32W, T-8 INDUSTRIAL FLUORESCENT CHAIN HUNG, 1' x 4' FIXTURE, MOUNTED 10' ABOVE FLOOR. QUANTITY UTILIZED = 76
- B 2-LAMP, 32W, T-8 RECESSED FLUORESCENT FIXTURE WITH PRISMATIC LENS, 2' x 4'. QUANTITY UTILIZED = 45
- C 3-LAMP, 32W, T-8 RECESSED FLUORESCENT FIXTURE WITH 3" DEEP NON-SPECULAR SILVER 24-CELL PARABOLIC Baffles, 2' x 4'. QUANTITY UTILIZED = 83
- D 2-LAMP, 32W, T-8, 4' LONG FLUORESCENT STRIP FIXTURE INSTALLED IN ARCHITECTURAL COVE LIGHTING. QUANTITY UTILIZED = 21
- E ONE LAMP, 40W, PENDANT MOUNT, METAL HALIDE, HIGH BAY, ENCLOSED FIXTURE, POWER HOOK, CORD & PLUG. THE MOUNTING HEIGHT SHALL BE MAINTAINED AT 25'-4" AFF. 16 OF THESE FIXTURES SHALL HAVE MULTI-TAP BALLAST TO POWER A 120 VAC, 250W, AUTOMATICALLY SWITCHED QUARTZ AUXILIARY LAMP FOR COLD START-UP AND HOT-RESTRIKE. QUANTITY UTILIZED = 210.
- F 1-LAMP, 70W, ROUND, HPS, DOWNLIGHT, WITH CLEAR LENS SUITABLE FOR DAMP LOCATIONS. QUANTITY UTILIZED = 13
- G 1-LAMP, 70W, ROUND, GROUND RECESSED, METAL HALIDE, FLAG-POLE LIGHTING FIXTURE. QUANTITY UTILIZED = 7
- H 1-LAMP, 70W, SURFACE MOUNTED, HPS, WEATHER-PROOF, AREA LIGHT. QUANTITY UTILIZED = 12
- I 1-LAMP, 32W, RECESSED, DOWNLIGHT, DIMMABLE, COMPACT FLUORESCENT LIGHT. QUANTITY UTILIZED = 4
- J 3-LAMP, 40W, DIMMABLE, TRACK LIGHT. QUANTITY UTILIZED = 6
- K INTERIOR RECESSED, 7 3/8", COMPACT, FLUORESCENT, ELECTRONIC, 4-PIN LAMP, DOWNLIGHT MINIMUM 2018 LUMENS. QUANTITY UTILIZED = 9
- L 400W, HPS, FLOOD LIGHT. QUANTITY UTILIZED = 4
- M 3-HEAD, 75W, WALL-MOUNTED EMERGENCY LIGHT WITH 90-MINUTE INTEGRAL BATTERY. QUANTITY UTILIZED = 22
- N 2-HEAD, 50W, WALL-MOUNTED EMERGENCY LIGHT WITH 90-MINUTE INTEGRAL BATTERY. QUANTITY UTILIZED = 30
- O 70W, WALL-MOUNTED, HPS WALL PACK, LIGHT FIXTURE. QUANTITY UTILIZED = 15
- P RED LED ILLUMINATED EXIT SIGN WITH 90-MINUTE INTEGRAL BATTERY. QUANTITY UTILIZED = 28

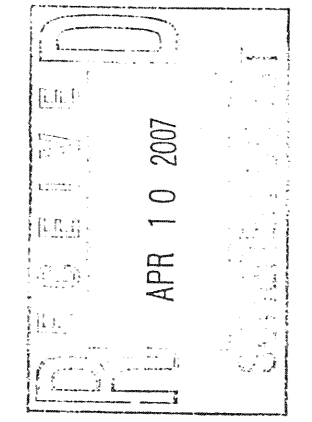
- S SINGLE POLE FLUSH SWITCH, QUIET TYPE, 48" AF MAXIMUM, 44" AF MINIMUM.
- S3 S4 3-WAY, 4-WAY, FLUSH SWITCH, 48" AF MAXIMUM, 44" AF MINIMUM.
- S_D 1500 WATT DIMMER SWITCH WITH ON-OFF FEATURE, 48" AF MAXIMUM, 44" AF MINIMUM.
- SP PHOTOCELL CONTROLLED CONTACTOR SELECTOR SWITCH
- PC PHOTOCELL



PHOTOCELL-CONTROLLED LIGHTING CONTACTOR CIRCUIT DIAGRAM



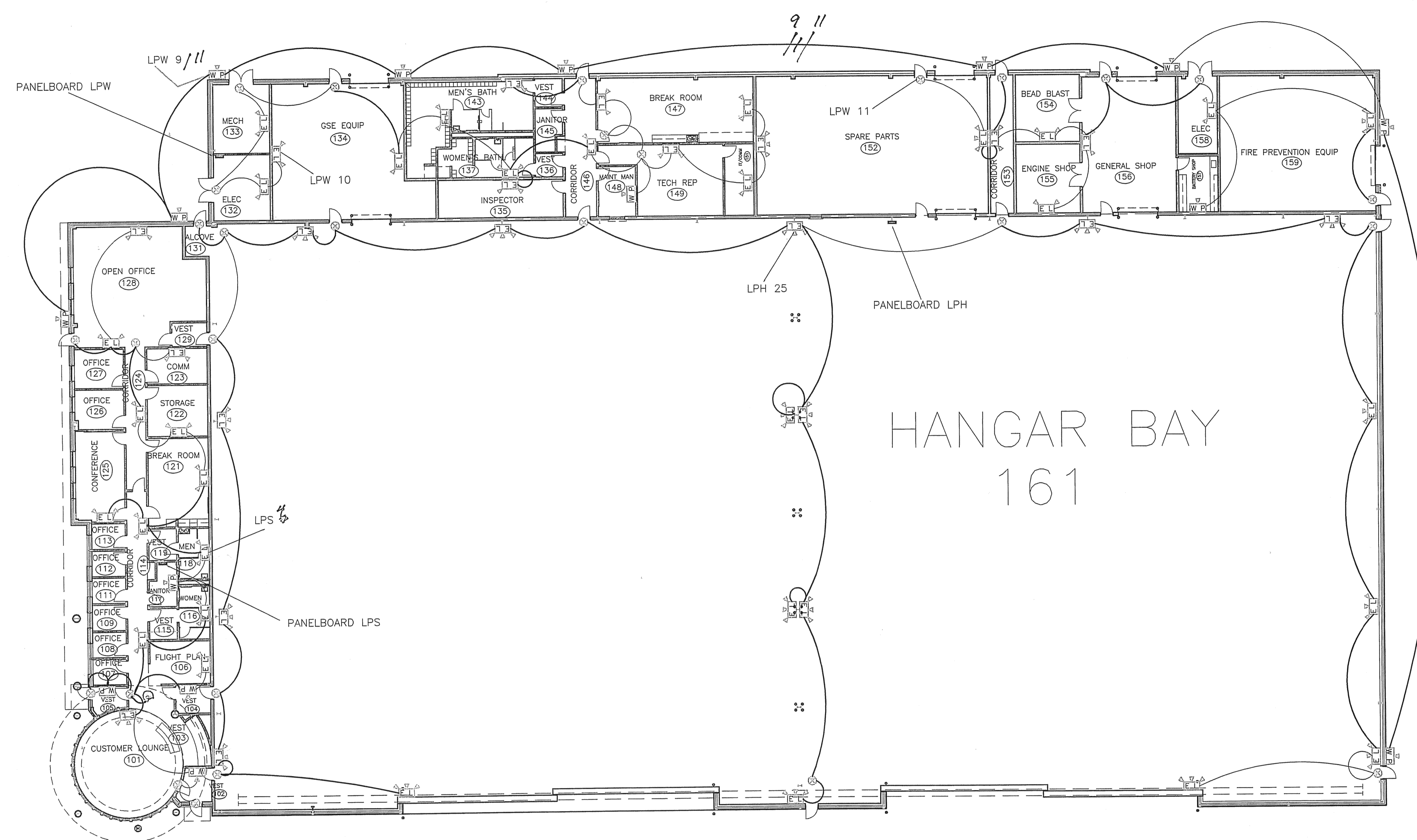
SCALE 1/16" = 1'-0"



HAMID REZAEI, PE
13521 SW 4TH LN
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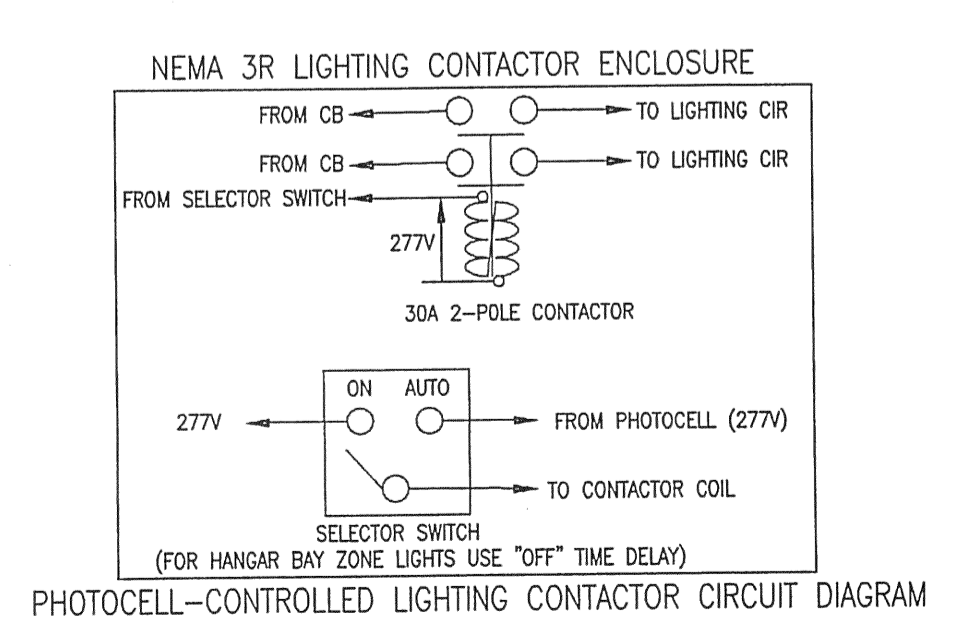
AEE
ALL FLORIDA
ELECTRIC CO., INC.
2606 NORTHEAST 17th TERRACE
GAINESVILLE, FLORIDA 32609
COMMERCIAL * INDUSTRIAL * INSTITUTIONAL

DATE	MAY 2006	
REVISIONS		
NO	DATE	DESCRIPTION
1	8/21	100% COMM
DRAWN BY:	CHKD BY:	
	HR	



- LIGHTING LEGEND** ALL LIGHTING CIRCUITS SHALL BE 277 VAC.
- 2-LAMP, 32W, T-8 INDUSTRIAL FLUORESCENT CHAIN HUNG, 1' x 4' FIXTURE, MOUNTED 10' ABOVE FLOOR. QUANTITY UTILIZED = 76
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 - 3-LAMP, 32W, T-8 RECESSED FLUORESCENT FIXTURE WITH 3" DEEP NON-SPECULAR SILVER 24-CELL PARABOLIC BAFFELS, 2' x 4'. QUANTITY UTILIZED = 83
 - 2-LAMP, 32W, T-8, 4' LONG FLUORESCENT STRIP FIXTURE INSTALLED IN ARCHITECTURAL COVE LIGHTING. QUANTITY UTILIZED = 21
 - ⊙ ONE LAMP, 400W, PENDANT MOUNT, METAL HALIDE, HIGH BAY, ENCLOSED FIXTURE, POWER HOOK, CORD & PLUG. PENDANT SHALL BE 20' LONG. 16 OF THESE FIXTURES SHALL HAVE MULTI-TAP BALLAST TO POWER A 120 VAC, 250W, AUTOMATICALLY SWITCHED QUARTZ AUXILIARY LAMP FOR COLD START-UP AND HOT-RESTART. QUANTITY UTILIZED = 210.
 - ⊙ 1-LAMP, 70W, ROUND, HPS, DOWNLIGHT, WITH CLEAR LENS SUITABLE FOR DAMP LOCATIONS. QUANTITY UTILIZED = 13
 - ⊙ 1-LAMP, 70W, ROUND, GROUND RECESSED, METAL HALIDE, FLAG-POLE LIGHTING FIXTURE. QUANTITY UTILIZED = 7
 - ⊙ 1-LAMP, 70W, SURFACE MOUNTED, METAL HALIDE, WEATHER-PROOF, AREA LIGHT. QUANTITY UTILIZED = 12
 - ⊙ 1-LAMP, 32W, RECESSED, DOWNLIGHT, DIMMABLE, COMPACT FLUORESCENT LIGHT. QUANTITY UTILIZED = 4
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 - ⊙ 2-HEAD, 50W, WALL-MOUNTED EMERGENCY LIGHT WITH 90-MINUTE INTEGRAL BATTERY. QUANTITY UTILIZED = 30
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- S SINGLE POLE FLUSH SWITCH, QUIET TYPE, 48" AF MAXIMUM, 44" AF MINIMUM.
- S3 S4 3-WAY, 4-WAY, FLUSH SWITCH, 48" AF MAXIMUM, 44" AF MINIMUM.
- S_D 1500 WATT DIMMER SWITCH WITH ON-OFF FEATURE, 48" AF MAXIMUM, 44" AF MINIMUM.
- S_P PHOTOCELL CONTROLLED CONTACTOR SELECTOR SWITCH
- ⊙ PHOTOCELL



SCALE 1/16" = 1'-0"

**THE ECLIPSE AVIATION
 SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
 GAINESVILLE REGIONAL AIRPORTS, GAINESVILLE, FL
 EMERGENCY, EXIT, AND OUTSIDE LIGHTING LAYOUT**

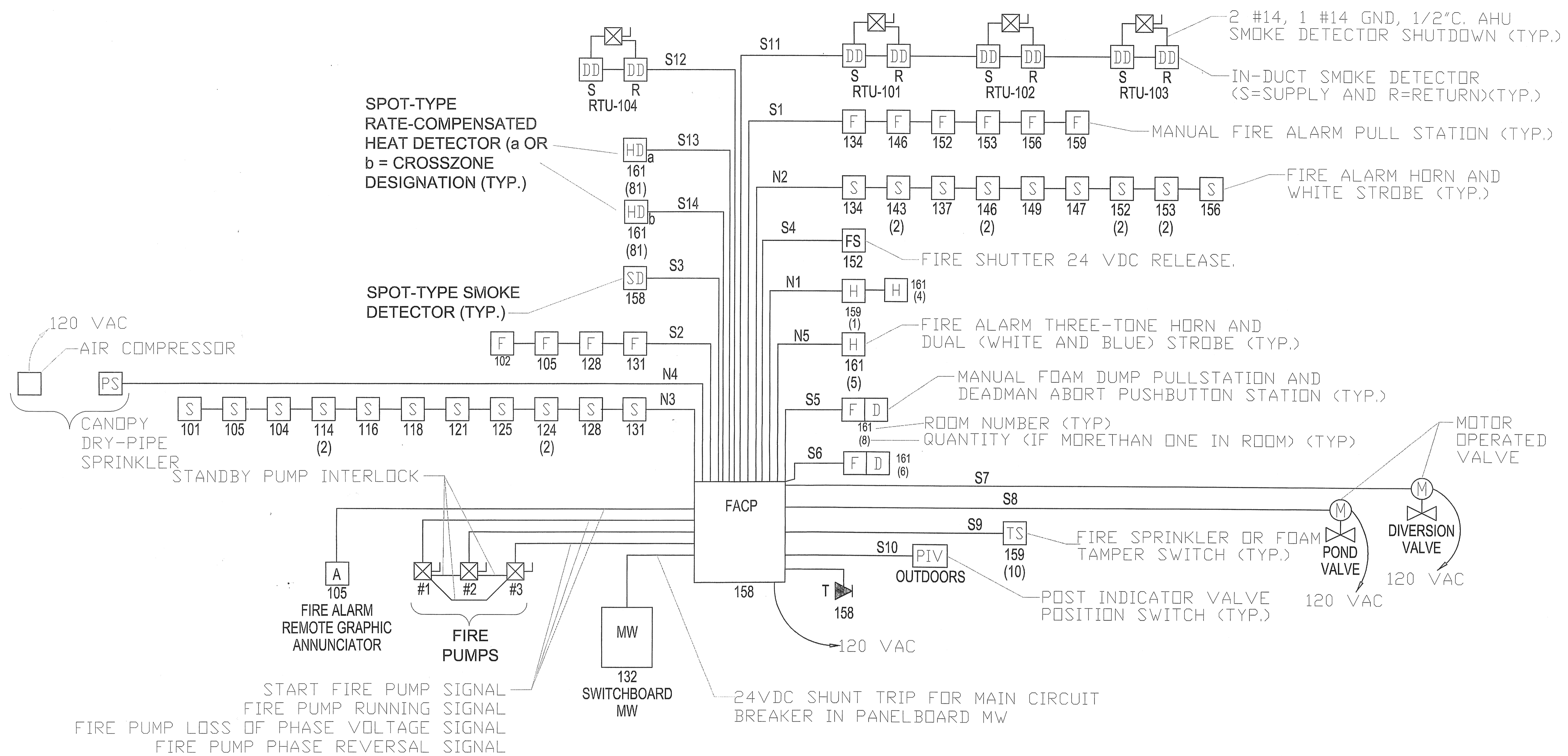
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 GAINESVILLE, FLORIDA 32609
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RECEIVED
 APR 10 2007
 PROJECT

HAMID REZAEI, PE
 13521 SW 4TH LN
 NEWBERRY, FL 32669
 352-665-1418
 PE# 52085

E-7

DATE	MAY 2006	
REVISIONS		
NO	DATE	DESCRIPTION
1	7/1	ADD APP
2	7/6	ADD HD
3	8/29	100% COMM
DRAWN BY: CHKD BY:		
HR		

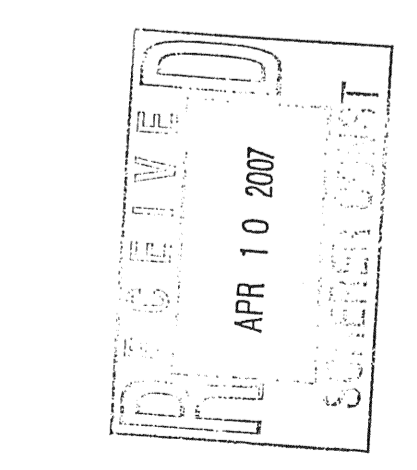


LEGEND

- [F] MANUAL FIRE ALARM PULL STATION
- [D] MANUAL FOAM DUMP PULL STATION AND DEADMAN ABORT PUSHBUTTON STATION
- [S] FIRE ALARM HORN & STROBE
- [H] FIRE ALARM THREE TONE HORN AND DUAL STROBE
- [S] CEILING RECESSED P.A. SPEAKER
- [HD] RATE COMPENSATED HEAT DETECTOR
- [SD] SMOKE DETECTOR
- [PS] PRESSURE SWITCH
- [FACP] FIRE ALARM CONTROL PANEL
- [DD] IN-DUCT SMOKE DETECTOR (S=SUPPLY & R=RETURN)
- [WF] FIRE SPRINKLER WATER FLOW SWITCH
- [TS] FIRE SPRINKLER VALVE TAMPER SWITCH
- [FS] FIRE SHUTTER RELEASE (24 VDC)
- [A] ANNUNCIATOR
- [EOL] END OF LINE RESISTOR

FIRE ALARM SYSTEM RISER DIAGRAM

NOT TO SCALE



HAMID REZAEI, PE
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THE ECLIPSE AVIATION
 SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
 GAINESVILLE REGIONAL AIRPORT, GAINESVILLE, FL
 FIRE ALARM SYSTEM RISER DIAGRAM

AFE
 ALL FLORIDA
 ELECTRIC CO., INC.
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 GAINESVILLE, FLORIDA 32609
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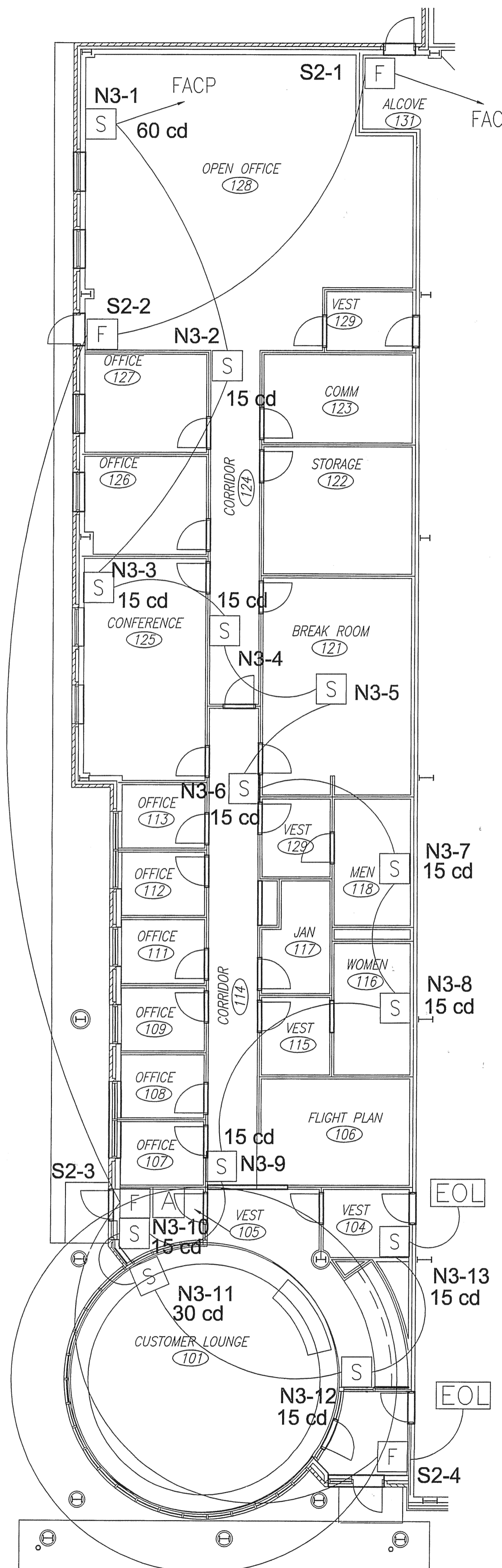
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REVISIONS

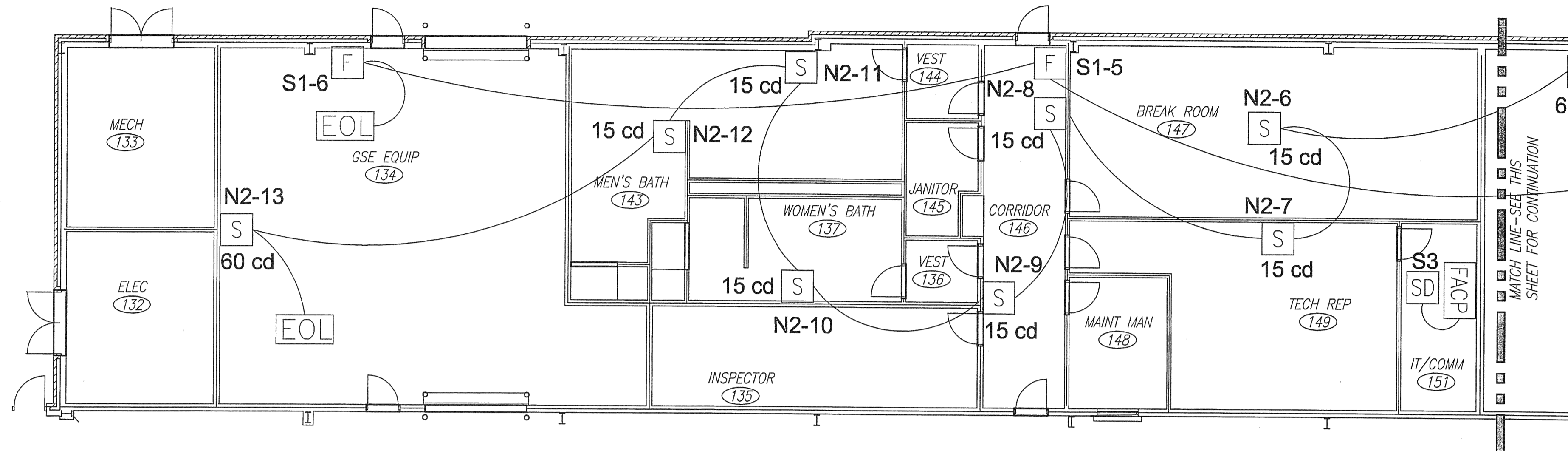
NO	DATE	DESCRIPTION
1	9/1	100% COMM

DRAWN BY: CHKD BY:
HR HR

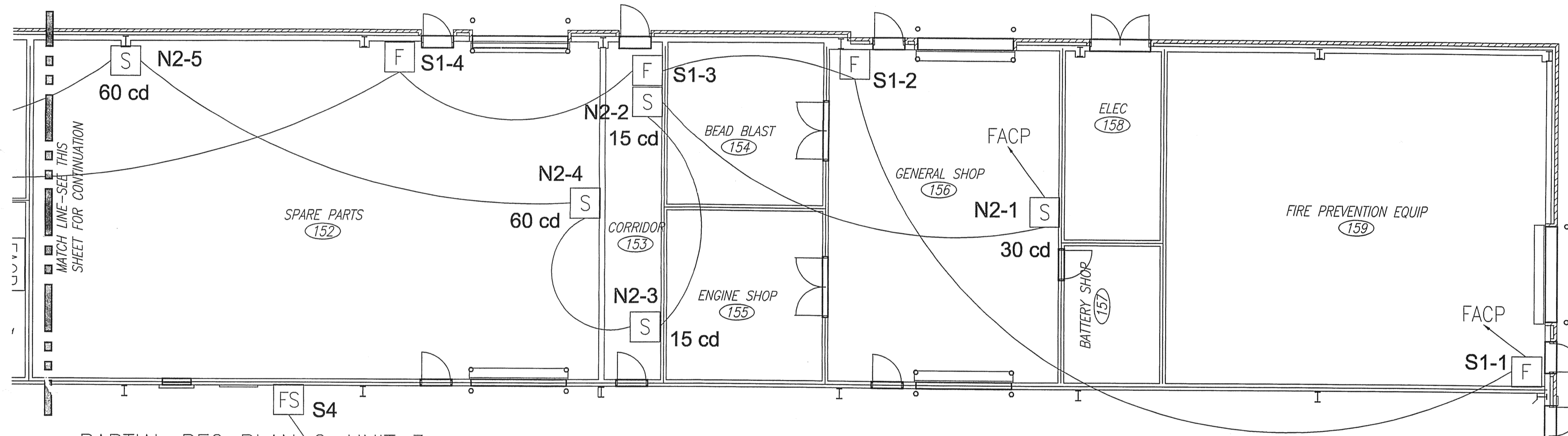
THE ECLIPSE AVIATION
SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY
GAINESVILLE REGIONAL AIRPORT, GAINESVILLE, FLORIDA
OFFICES FIRE ALARM SYSTEM CIRCUITRY



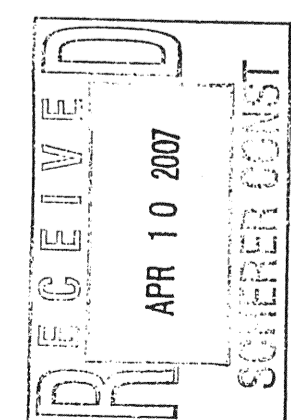
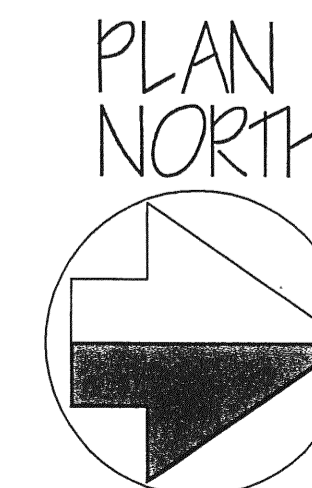
PARTIAL RFC PLAN A-UNIT 2
SCALE: 1/8" = 1'-0"



PARTIAL RFC PLAN B-UNIT 3
SCALE: 1/8" = 1'-0"



PARTIAL RFC PLAN C-UNIT 3
SCALE: 1/8" = 1'-0"

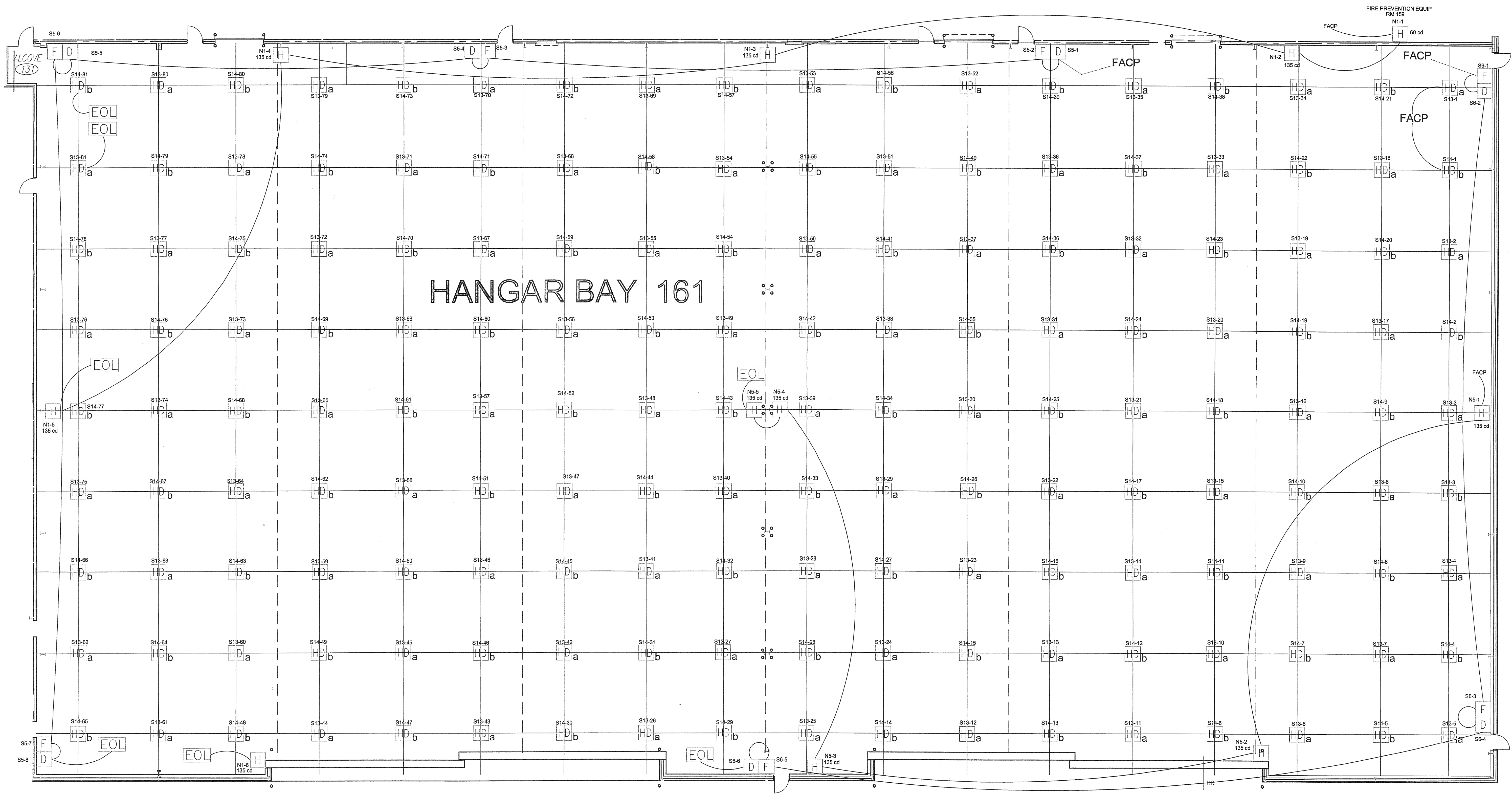


HAMID REZAEI, PE
13521 SW 4TH LN
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352-665-1418
PE# 52085

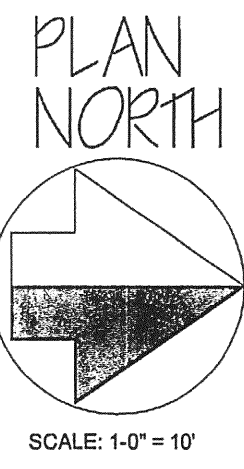
REVISIONS

NO	DATE	DESCRIPTION
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2	8/31	100% COMM

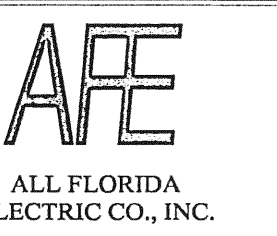
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HANGAR BAY 161



THE ECLIPSE AVIATION
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 HANGAR BAY FIRE ALARM SYSTEM CIRCUITRY



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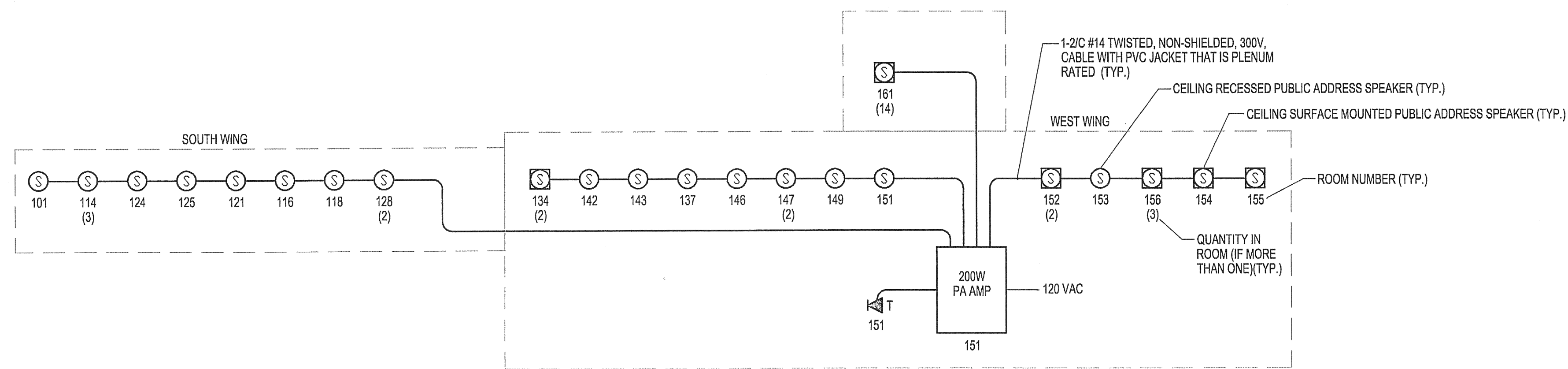
FA-3

HAMID REZAEI, PE
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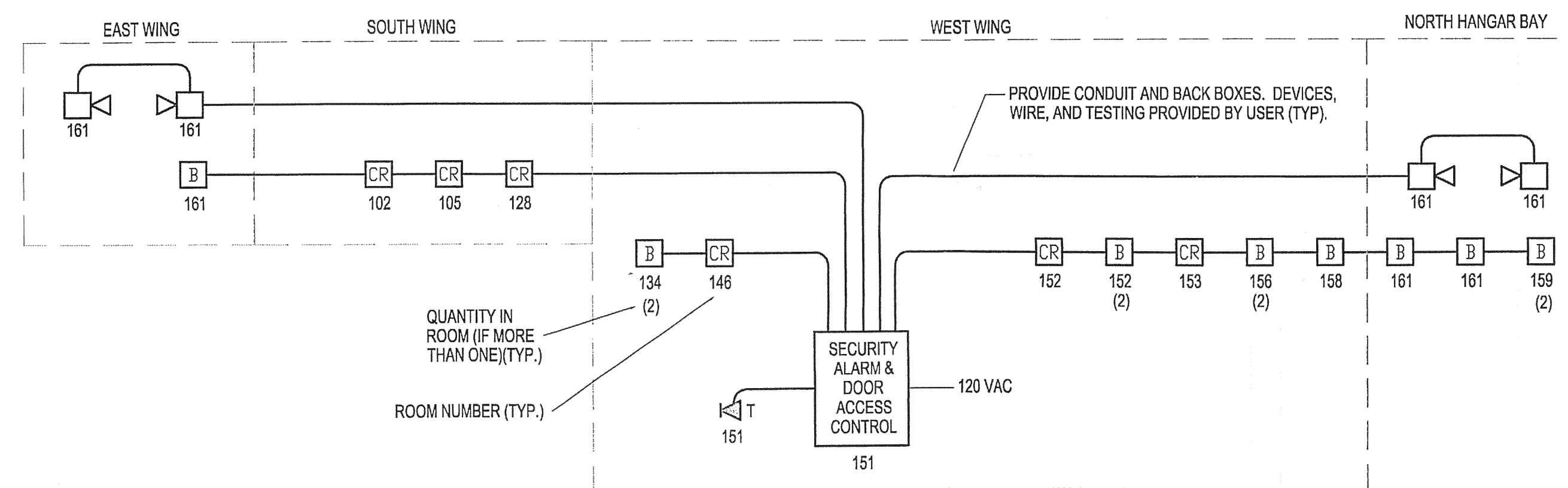
REVISIONS

NO	DATE	DESCRIPTION

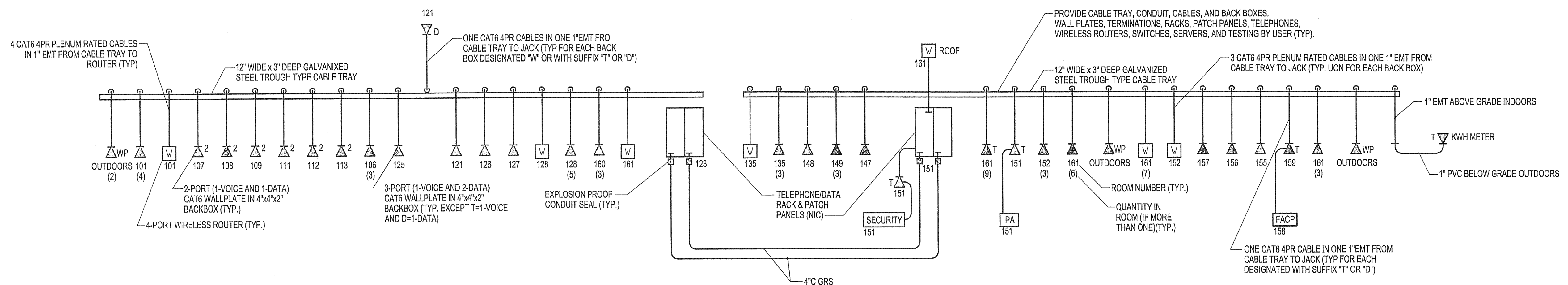
DRAWN BY: _____
 CHKED BY: _____
 HR



PUBLIC ADDRESS (PA) SYSTEM RISER DIAGRAM
 NOT TO SCALE



SECURITY ALARM & DOOR ACCESS CONTROL SYSTEM RISER DIAGRAM
 NOT TO SCALE



TELEPHONE/DATA SYSTEM RISER DIAGRAM
 NOT TO SCALE

THE ECLIPSE AVIATION
 SMALL AIRCRAFT TRANSPORTATION SYSTEM (SATS) MAINTENANCE FACILITY FACILITY
 GAINESVILLE REGIONAL AIRPORT, GAINESVILLE, FLORIDA
 SECURITY ALARM, PUBLIC ADDRESS, AND COMMUNICATION RISER

