DESIGN CRITERIA DOCUMENTS PACKAGE (DCP)
FOR

OCALA INTERNATIONAL AIRPORT

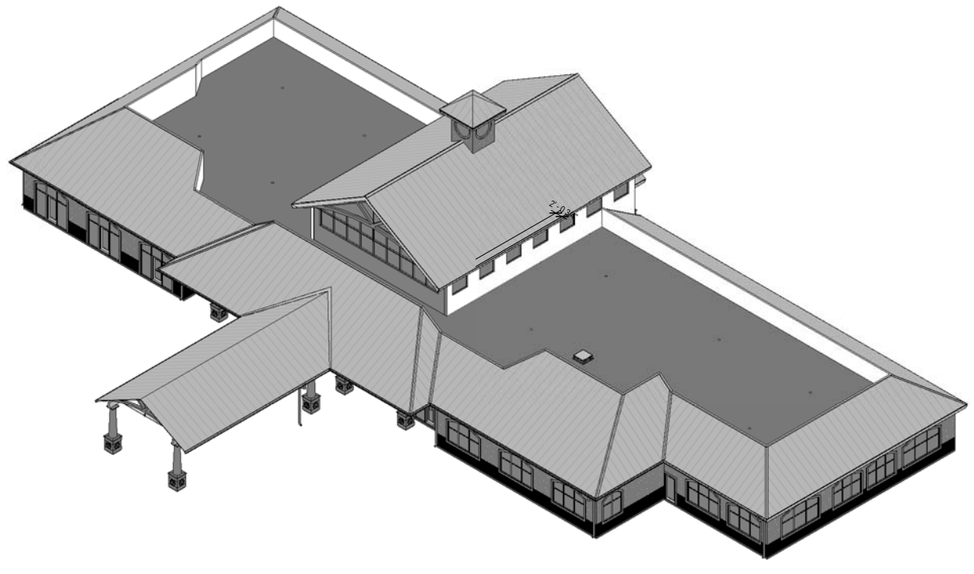
GENERAL AVIATION TERMINAL BUILDING

CITY OF OCALA
FLORIDA

CITY OF OCALA BID NO. AIR 17-012

FDOT NUMBER 431586-1-94-01

LOCATION MAP



VICINITY MAP

NOVEMBER 15, 2017 - DESIGN CRITERIA PACKAGE (DCP)

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15039ADD	SURVEY	11-15-2017	

Ocala International Airport

OCALA INTERNATIONAL AIRPORT
CITY OF OCALA

Michael Baker INTERNATIONAL

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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

DRAWING INDEX

Project Number: No. 161641

Division : Architecture

Date: November 15, 2017

Drawing Number:

G-001

GENERAL NOTES (TYP. ALL SHEETS)

THE TERM "CONTRACTOR" USED THROUGH OUT THE DESIGN CRITERIA PACKAGE DOCUMENTS (DCP) SHALL MEAN THE "DESIGN BUILDER" FOR THE PROJECT.

THE DESIGN CRITERIA PACKAGE DOCUMENTS SHALL INCLUDE ALL DRAWINGS, SPECIFICATIONS, AND CONTRACT REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROPOSED GA TERMINAL AND RELATED WORK.

THE DESIGN CRITERIA PACKAGE DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL ESTABLISH THE BASE LINE STANDARD FOR THE PROJECT. THE DESIGN BUILDER MAY SUBMIT SUBSTITUTIONS FOR CONSIDERATION BY THE OWNER AND THE DESIGN CRITERIA PROFESSIONAL AS OUTLINED IN THE DIVISION OF SPECIFICATION AND THE PROCUREMENT DOCUMENTS.

THE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF AN ARCHITECTURAL DESIGN CONCEPT. THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS, THE TYPE OF STRUCTURAL SYSTEM & THE MEP & FP SYSTEMS ARE BEING ISSUED. AS SCOPE DOCUMENTS, THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, ARCHITECT & ENGINEER OF RECORD. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR & APPLICABLE SUB-CONTRACTORS SHALL FURNISH ALL DESIGN AND WORK ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

1. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BE KNOWLEDGEABLE OF ALL CONDITIONS THEREOF. THE CONTRACTOR SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT AND NOTIFY THE ARCHITECT OF RECORD AND DESIGN CRITERIA PROFESSIONAL AND OWNER OF ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE WORK.
2. ALL WORK SHALL COMPLY WITH FEDERAL, STATE AND LOCAL CODES OR ORDINANCES.
3. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS HAVE PRECEDENCE.
4. THE DCP DOCUMENTS ARE COMPLEMENTARY, WHAT IS REQUIRED OF ONE IS REQUIRED BY ALL. THERE IS NO PRECEDENCE BASED ON SCALE OR SPECIFICATIONS VERSUS DRAWINGS.THE DCP DOCUMENTS ESTABLISH THE MINIMUM DESIGN CRITERIA; SUBSTITUTION REQUESTS SHALL BE SUBMITTED FOR ALL VARIANCES OF LESSER QUALITY.
5. WHERE ONE DETAIL IS SHOWN FOR ONE CONDITION IT SHALL APPLY TO ALL LIKE OR SIMILAR CONDITIONS THOUGH NOT SPECIFICALLY MARKED.
6. IF AT ANY TIME A CONFLICT OR ERROR IS FOUND WITHIN THESE DOCUMENTS PRIOR TO OR DURING CONSTRUCTION THAT MAY BE CRITICAL TO THE INTEGRITY OF THIS PROJECT, THE CONTRACTOR SHALL CONTACT THE ARCHITECT OF RECORD AND DESIGN CRITERIA PROFESSIONAL AND THE OWNER IMMEDIATELY TO RESOLVE THE ERROR PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
7. THE COORDINATION OF ALL MATERIALS, LABOR AND THE SUB CONTRACTORS WORKMANSHIP IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING LOCAL BUILDING OFFICIALS AND INSPECTORS FOR PERMITS AND INSPECTIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING ALL WORK DURING CONSTRUCTION AND IMPLEMENTATION OF ALL SAFETY PROCEDURES IN ACCORDANCE WITH APPLICABLE CODES.
10. ALL FIXTURES, EQUIPMENT AND MATERIALS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS AND SUGGESTED INSTRUCTIONS.
11. ALL WORK SHALL BE IN ACCORDANCE WITH THE QUALITY STANDARDS OF THE TRADE AND SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND MANUFACTURERS RECOMMENDATIONS.
12. ITEMS NOTED AS "N.I.C" (NOT IN CONTRACT), "BY OWNER" OR "EXISTING" SHALL NOT BE INCLUDED IN THE CONTRACT. HOWEVER, PROVISIONS SHALL BE MADE BY RESPECTIVE SUB-CONTRACTOR TRADES TO ALLOW FOR THE INSTALLATION OF ITEMS NOTED. ALL FINISHES OF FLOORS, BASES, WAINSCOTS, WALLS AND CEILINGS BEHIND, UNDER AND/ OR OVER THESE ITEMS SHALL BE INCLUDED IN THE GENERAL CONTRACT UNLESS NOTED OTHERWISE (U.N.O.)
13. THE JOB SITE SHALL BE KEPT "BROOM CLEAN" AND FREE OF EXCESSIVE DEBRIS. ALL REFUSE CREATED IN THE EXECUTION OF THE CONTRACT FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR . TRANSPORT TRASH, RUBBISH AND DEBRIS FROM THE SITE AND DISPOSE OF LEGALLY. THE MANNER OF THE REMOVAL SHALL BE CONFIRMED WITH AN OWNER'S REPRESENTATIVE AND SHALL MEET CITY, COUNTY AND STATE REGULATIONS.
14. DIMENSIONS ARE NOMINAL AND ARE TAKEN FROM FACE OF BLOCK WALL, CENTERLINE OF COLUMN AND FACE OF STUD U.N.O.
15. ALL UNIT MASONRY SHALL CONFORM TO ASTM C-90. MASONRY CONSTRUCTION SHALL COMPLY WITH THE SPECIFICATION FOR CONCRETE MASONRY STRUCTURES (ACI-530. 1-95/ ASCE 6-95/TMS 602-95) AND THE FLORIDA BUILDING CODE.
16. ALL MASONRY WALLS SHALL BE REINFORCED WITH HORIZONTAL JOINT REINFORCING AT 16 INCHES ON CENTER VERTICALLY. JOINT REINFORCING SHALL HAVE PERFORMED CORNERS AND "T" SECTIONS
17. MORTAR SHALL CONFORM TO ASTM C-270. TYPE S MORTAR AND TYPE M BELOW GRADE.
18. THE CONTRACTOR SHALL COORDINATE ALL LIGHTING LOCATIONS WITH THE DUCTWORK AND SPRINKLER LAYOUT. ANY VARIATIONS WITH LAYOUT OR CEILING HEIGHT SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO INSTALLATION.
19. THE CONTRACTOR SHALL PROVIDE A GENTLE SLOPE AT ALL GRADE ENTRANCES AND EXITS; AVOID ABRUPT CHANGES IN ELEVATION AND COMPLY WITH SLOPED WALKWAY REQUIREMENTS, PER FBC & ADA.
20. THE NEW BUILDING SHALL BE FULLY SPRINKLED IN ACCORDANCE WITH NFPA 13. SUBMIT SIGNED AND SEALED - ENGINEERED SPRINKLER DRAWINGS TO THE AUTHORITY HAVING JURISDICTION PRIOR TO FABRICATION AND INSTALLATION.
21. IT IS THE OWNER'S AND / OR TENANT'S RESPONSIBILITY TO CHECK THE CONSTRUCTION DOCUMENTS AND VERIFY ANY AND ALL LOCATIONS, SIZE, QUANTITY, QUALITY AND SPECIFIC MATERIALS USED IN CONJUNCTION WITH THE OWNERS SPECIAL EQUIPMENT LAYOUT USE OR FUNCTION.
22. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER (A/E) OF RECORD AND DESIGN CRITERIA PROFESSIONAL AND THE OWNER FOR APPROVAL ALL FLORIDA PRODUCT APPROVALS AND/OR ENGINEERING, SIGNED AND SEALED DRAWINGS PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE, FOR ALL EXTERIOR ENVELOPE ELEMENTS AND AS REQUIRED BY THE CONTRACT DOCUMENTS,PRIOR TO ORDERING MATERIALS AND INSTALLATION . THE CONTRACTOR SHALL THEN SUBMIT THE "A/E ACCEPTED" SUBMITTALS TO THE BUILDING DEPARTMENT / PLANS EXAMINER (AUTHORITY HAVING JURISDICTION - AHJ), AS REQUIRED BY THE FLORIDA BUILDING CODE FOR APPROVAL AND ACCEPTANCE BY THE AHJ. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: WINDOWS, DOORS, LOUVERS, ROOFING, & OTHER EXTERIOR CLADDING ELEMENTS.

PARTITION NOTES (TYP. ALL SHEETS)

INSTALL GYPSUM WALLBOARD IN ACCORDANCE WITH THE CURRENT VERSION OF UNITED STATES GYPSUM-GYPSUM CONSTRUCTION HANDBOOK, ASTM C754 AND ASTM 840; THE MOST STRINGENT REQUIREMENTS PREVAIL.

ALL PARTITIONS SHALL BE INSTALLED PLUMB AND TAPED AND SANDED SMOOTH SO THERE ARE NO VISIBLE JOINTS. GYPSUM FINISH LEVEL 4 AT WALLS, LEVEL 5 AT CEILINGS ADD SOFFITS AND LEVEL 2 IN CONCEALED SPACES. USE LEVEL 5 FINISH WHEN WALL COVERINGS ARE SPECIFIED.

VERIFY PARTITION THICKNESS FOR INTERNAL INCLUSIONS. NOTIFY ARCHITECT OF RECORD OF ANY DISCREPANCIES BETWEEN SCHEDULED PARTITION THICKNESS AND INTERNAL INCLUSION.

PARTITIONS ARE DIMENSIONED NOMINALLY, UNLESS NOTIFIED OTHERWISE.

HEIGHTS ARE DIMENSIONED FROM THE TOP OF SLAB, UNLESS NOTED OTHERWISE. VERIFY CONDITION OF SLAB AND SLAB ELEVATION.

INSTALL WATER-RESISTANT GYPSUM BOARD IN AREAS SUBJECT TO MOISTURE.

PROVIDE ALL METAL CORNER AND FINISH BEADS AND / OR TRIM FOR ALL EXPOSED EDGES AND CORNERS. SPACKLE, BLEND AND SAND SMOOTH INTO ADJACENT SURFACES.

PROVIDE EXPANSION JOINTS IN GYPSUM WALLBOARD (FIRE RATED, WHERE REQUIRED) AS RECOMMENDED BY GYPSUM WALLBOARD MANUFACTURER AND CENTERED ABOVE ALL DOORS.

IN-WALL BLOCKING SHALL BE INSTALLED IN STUD WALLS, BEHIND ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO: FIRE EXTINGUISHER MOUNTING BRACKETS, SIGNAGE ETC. WOOD BLOCKING SHALL BE TREATED.

CONTROL JOINTS IN MASONRY WALLS SHALL BE A MAXIMUM OF 4 FEET FROM CORNERS AND 20 FEET ON CENTER.

PROVIDE A CONTINUOUS BEAD OF SEALANT WITH BACKER ROD AT THE PERIMETER OF ALL EXTERIOR DOOR AND WINDOW FRAMES WHERE THEY MEET WALLS.

THE CONTRACTOR SHALL COORDINATE AND VERIFY THE EXACT SIZE AND LOCATION OF ALL FLOOR, WALL AND CEILING PENETRATIONS / OPENINGS WITH EACH OF THE RESPECTIVE MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION DRAWINGS.

ALL PARTITION PENETRATIONS SUCH AS DUCTWORK, SHALL BE FIELD VERIFIED. PARTITIONS SHALL BE BRACED AND OPENINGS REINFORCED.

DOOR OPENINGS NOT DIMENSIONALLY LOCATED SHALL BE CENTERED BETWEEN WALLS OR LOCATED WITHIN 4" OF THE FINISH FACE OF AN ADJACENT WALL OR COLUMN AS SHOWN ON PLANS.

CAULK GAPS WHERE INTERSECTIONS OF ELEMENTS ARE NOT CRISP AND CONSISTENT.

ALL RATED PARTITIONS OR SMOKE BARRIERS SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE., AND SEALED AIRTIGHT. USE U.L. LISTED HEAD OF WALL SPRAY OR UL APPROVED SEALANT. COMPLY WITH UL RATED ASSEMBLY REQUIREMENTS FOR ALL RATED WALLS.

ALL FIRE AND / OR SMOKE BARRIERS OR WALLS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES WITH LETTERS A MINIMUM OF 2 INCHES HIGH ON A CONTRASTING BACKGROUND SPACED A MAXIMUM OF 12 FEET ON CENTER WITH A MINIMUM OF ONE PER WALL OR BARRIER. THE HOURLY RATING SHALL BE INCLUDED ON ALL RATED BARRIERS OR WALLS. SUGGESTED WORDING "(_) - HOUR RATED FIRE AND SMOKE BARRIER, PROTECT ALL OPENINGS". THIS SHOULD APPLY TO NEW AND EXISTING RATED WALLS.

FINISH NOTES

VERIFY FINISH WITH OWNER'S REPRESENTATIVE & ARCHITECT PRIOR TO FINISH APPLICATION

SURFACES ARE TO BE FREE OF IMPERFECTIONS AND MARKINGS SUBJECT TO BLEED-THROUGH.

PAINT DIFFUSERS AND RETURN GRILLES AT CEILING TO MATCH ADJACENT CEILING FINISHES, UNLESS NOTED OTHERWISE. INTERIOR OF DUCT WORK VISIBLE FROM FINISHED SPACES SHALL BE PAINTED BLACK 12" FROM THE DIFFUSER.

INSTALL FLOORING PURSUANT TO MANUFACTURERS INSTRUCTIONS AND MOISTURE REQUIREMENTS, UNLESS NOTED OTHERWISE.

RESILIENT BASE IS COVED AT VINYL FLOORING AND STRAIGHT AT CARPET.

REF REFLECTED CEILING PLANS AND NOTES, FOR MORE INFORMATION.

CARPET OF THE SAME SPECIFICATION SHALL COME FROM THE SAME DYE LOT AND MEET THE CARPET AND RUG INSTITUTE MODEL SPECIFICATION AND INDUSTRY STANDARDS FOR SIDE-TO-SIDE MATCH. THE CONTRACTOR SHALL USE LOW OR NO VOC ADHESIVE AS RECOMMENDED BY THE MANUFACTURER.

REPAIR, REFINISH AND PREPARE, AS APPLICABLE, EXISTING SURFACES TO RECEIVE NEW MATERIALS. VERIFY COMPATIBILITY OF ADHESIVES & COATINGS WITH SUBSTRATES PRIOR TO APPLICATION.

FINISH REQUIREMENTS SHALL BE DIRECTED BY OWNER AND AS FOLLOWS:

ALL FINISHES SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:

EXIT FINISHES, WALLS AND CEILINGS	CLASS B
EXIT FINISHES, FLOORS	CLASS II
ALL OTHER SPACES, WALLS AND CEILINGS	CLASS B
ALL OTHER SPACES, FLOORS	NO REQUIREMENTS

CLASS A INTERIOR WALL AND CEILING FINISH FLAME SPREAD 0-25, SMOKE DEVELOPED 0-450

CLASS B INTERIOR WALL AND CEILING FINISH FLAME SPREAD 26-75, SMOKE DEVELOPED 0-450

CLASS I INTERIOR FLOOR FINISH	MINIMUM 0.45 WATTS PER	SQ CM
CLASS II INTERIOR FLOOR FINISH	MINIMUM 0.22. WATTS PER	SQ CM

CALL STUCCO CONTROL JOINTS SHALL COMPLY WITH FBC AREA AND SPACING REQUIREMENTS AND SHALL NOT EXCEED 144 SF IN AREA ENCOMPASSED BY THE CONTROL JOINTS.

REFLECTED CEILING NOTES

VERIFY FIELD CONDITIONS AND LOCATIONS OF ALL PLUMBING, MECHANICAL, STRUCTURAL, FIRE PROTECTION, ELECTRICAL, COMMUNICATION AND LIFE SAFETY AND ANY AND ALL OTHER APPLICABLE ITEMS. INSTALL PLUMBING, FIRE PROTECTION, MECHANICAL FANS, DUCTS, CONDUITS AND OTHER RELATED AND APPURTENANT ITEMS SO AS NOT TO CONFLICT WITH LUMINARIES AND ANY AND ALL FIELD CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF PLENUM ELEMENTS. ARRANGE OR MODIFY NON-VISABLE ITEMS TO FIT CONDITIONS OF THE REFLECTED CEILING PLAN LAYOUT.

CONTRACTOR SHALL PROVIDE FULLY COORDINATED DRAWINGS INDICATING ALL CEILING COMPONENTS, ACCESS PANELS & DEVICES (I.E. ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION). EACH DISCIPLINE SHALL BE INDICATED SUCH THAT THEY ARE OVERLAID AND IDENTIFIABLE INDIVIDUALLY ON ONE DRAWING. ANY DISCREPANCIES NOTED SHALL BE BROUGHT TO THE ARCHITECT OF RECORD'S AND DESIGN CRITERIA PROFESSIONAL'S AND THE OWNER'S ATTENTION PRIOR TO INSTALLATION. ANY WORK INSTALLED REQUIRING CORRECTION NOT BROUGHT TO THE ARCHITECT'S ATTENTION AND WITHOUT SUCH NOTIFICATION SHALL BE CORRECTED BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.

CONTRACTOR TO PROVIDE AND LOCATE ALL CEILING ACCESS PANELS IN GYPSUM, PLASTER AND CEMENT BOARD CEILINGS. CONTRACTOR SHALL PROVIDE THE ARCHITECT OF RECORD WITH LOCATIONS / COORDINATION DRAWINGS OF ALL REQUIRED ACCESS PANELS PRIOR TO THE INSTALLATION OF CEILING ELEMENTS, INCLUDING REQUIRED ACCESS PANELS; VALVES OR EQUIPMENT REQUIRING ACCESS PANELS ABOVE METAL SLAT OR DECORATIVE WOOD CEILINGS WILL NOT BE ACCEPTABLE. RATED ACCESS PANELS SHALL BE PROVIDED IN RATED ASSEMBLIES.

CEILING ACCESS PANELS SHALL BE PROVIDED IN NON-ACCESSIBLE CEILINGS BELOW THE FOLLOWING THE MECHANICAL AND PLUMBING DEVICES
- VALVES
- FLOW MEASURING DEVICES
- MIXING BOXES
- POWER OPERATED DAMPERS
- ACCESS PANEL IN DUCTWORK
- VOLUME AND BALANCING DEVICES
- WATER FLOW SWITCHES
- SPRINKLER SYSTEM DRAINS AND TEST CONNECTIONS
- PRESSURE SWITCHES
- OTHER DEVICES LOCATED ON DRAWINGS

MECHANICAL, ELECTRICAL, COMMUNICATION AND LIGHTING PLAN ELEMENTS ARE SHOWN FOR LOCATION PURPOSES ONLY. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

INSTALL FULLY RECESSED FIXTURES ONLY, INCLUDING BUT NOT LIMITED TO DIFFUSERS, GRILLES, ETC. UNLESS NOTED OTHERWISE.

INSTALL UNDERWRITERS LABORATORIES (U.L.) LABELED DEVICES

INSTALL SPRINKLER HEADS WITH TRIM RINGS INSTALLED TIGHT TO FINISH CEILING.

SITE NOTES

PROVIDE SUBTERRANEAN TERMITE PREVENTION IN SOIL AREAS SCHEDULED TO RECEIVE NEW CONSTRUCTION. THE CONTRACTOR / INSTALLER SHALL SUBMIT A CERTIFICATE STATING THAT THE TREATMENT HAS BEEN APPLIED IN ACCORDANCE WITH THE APPLICABLE GOVERNING REGULATIONS FOR THE LOCATION OF THE PROJECT. RETREAT AREAS DISTURBED BY EXCAVATION AFTER INITIAL TREATMENT HAS BEEN IMPLEMENTED.

ADVISE UTILITY LOCATION COMPANY OF EXCAVATION ACTIVITIES (4)-FOUR WEEKS PRIOR TO EXCAVATION ACTIVITIES. LOCATE, IDENTIFY AND MARK UNDERGROUND UTILITIES PASSING THROUGH THE AREA OF CONSTRUCTION BEFORE COMMENCING WITH WORK.

REMOVE ANY MATERIAL NOT REQUIRED FOR USE ON THE PROJECT (INCLUDING UNSATISFACTORY SOILS, EXCESS SATISFACTORY SOILS, TRASH AND DEBRIS) AND LEGALLY DISPOSE OF IT OFF OF THE OWNERS PROPERTY.

BURNING SHALL NOT BE PERMITTED.

PROVIDE AN APPROVED CONSTRUCTION ENTRANCE AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

IMPACT RESISTANT VAPOR BARRIER TO BE PROVIDE BELOW ALL SLAB-ON-GRADE FLOORS. COMPLY WITH MFR'S PATCHES, LAPS AND JOINT SEAL REQUIREMENTS.

DEMOLITION NOTES

1.1 PRIOR TO BEGINNING DEMOLITION THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY HAZARDOUS MATERIAL & REMOVE OR MITIGATE THE HAZARDOUS MATERIAL IN ACCORDANCE WITH THE BUILDING CODES AND AUTHORITIES HAVING JURISDICTION REQUIREMENTS (FEDERAL & LOCAL)

1.2 REMOVE ALL EXISTING PLUMBING FIXTURES SCHEDULED TO BE DEMOED, OR REQUIRED TO BE REMOVED FOR NEW WORK IN THEIR ENTIRETY. CUT BACK AND CAP ALL PLUMBING LINES. PREPARE AREA TO RECEIVE NEW FINISHES OR CONSTRUCTION. REF PLUMBING DRAWINGS AND SPECIFICATIONS.

1.3 REMOVE ALL EXISTING ELECTRICAL, DATA & COMMUNICATION WIRING THAT IS ABANDONED, SCHEDULED TO BE DEMOED OR NO LONGER IN SERVICE. VERIFY WITH THE OWNER, TENANTS & FACILITY USERS IF WIRING IS IN USE PRIOR TO DEMOLITION & REMOVAL.

1.4 COORDINATE THE TURN OVER OF ALL ITEMS OR EQUIPMENT TO BE SALVAGED TO THE OWNER PRIOR TO REMOVAL AND DISPOSAL.

1.5 THE EXISTING PARKING LOT & CONTROL TOWER IS SCHEDULED TO REMAIN IN OPERATION DURING THE CONSTRUCTION OF OPEN/ACCESSIBLE THE NEW BUILDING. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION & DEMOLITION ACTIVITIES WITH THE OWNER PRIOR TO STARTING EACH WORK ACTIVITY.

1.6 THE TOWER /APRON ACCESS GATE & PARKING LOT SHALL REMAIN OPEN/ACCESSIBLE AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT ON PASSENGER GATE OPENING & CLOSINGS & ALL AIRPORT & AIRLINE OPERATIONS.

1.7 REFER TO SITE PLANS & DEMOLITION DRAWINGS FOR ADDITIONAL NOTES & REQUIREMENTS.

ROOF NOTES

THE ROOF MEMBRANE SYSTEM SHALL BE RESISTANT TO JET FUEL. PROVIDE MIN SLOPE TO ROOF DRAINS AS 1/4"/FT AT MAIN SLOPE & 1" ADDITIONAL SLOPE AT ROOF DRAINS. PROVIDE WALK WAY PROTECTION BOARDS AT ALL ROOF ACCESS POINTS AND ALONG PATHWAY TO ROOF ANTENNAS AND EQUIP PERIMETERS.

POWER AND COMMUNICATION NOTES

INSTALL UNDERWRITERS LABORATORIES (U.L.) LABELED DEVICES

INSTALL SWITCHES 48 INCHES ABOVE THE FINISH FLOOR SLAB UNLESS NOTED OTHERWISE. HEIGHTS ARE DETERMINED FROM TOP OF FLOOR SLAB TO CENTERLINE OF COVER PLATE, MOUNTED VERTICALLY LENGTHWISE, U.N.O. GANG-SWITCH COVER PLATES SHALL BE ONE PIECE TYPE, QUANTITY OF SWITCHES AS APPLICABLE AND AS REQUIRED. DEVICES AND COVER PLATES TO BE LEVITON, WHITE.

RECEPTACLES MOUNTED AT COUNTER HEIGHT SHALL BE INSTALLED HORIZONTALLY ABOVE THE COUNTER OR WHERE A BACKSPLASH OCCURS, ABOVE THE BACKSPLASH OF THE COUNTER.

INSTALL WALL MOUNTED OUTLETS , POWER, COMMUNICATIONS, DATA, ETC. 18 INCHES ABOVE FLOOR SLAB TO CENTERLINE OF COVER PLATE MOUNTED VERTICALLY LENGTHWISE, UNLESS NOTED OTHERWISE (U.N.O.)

DO NOT MOUNT OUTLETS BACK TO BACK

VERIFY ALL EQUIPMENT MOUNTING REQUIREMENTS OF ALL ELECTRICAL, COMMUNICATIONS AND OTHER EQUIPMENT REQUIRING SPECIAL PLUG CONFIGURATIONS.

PROVIDE POWER AND OTHER FITTINGS FOR APPLIANCES AND OTHER DEVICES AS REQUIRED FOR PROPER OPERATION

VERIFY OR ACQUIRE EQUIPMENT SPECIFICATIONS FROM OWNER FOR PROPER FIT AND POWER REQUIREMENTS.

COORDINATE OWNER'S & FBO'S TELEPHONE, CABLING AND SECURITY INSTALLATIONS AS REQUIRED.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL , DATA AND COMMUNICATION SYSTEM INSTALLATION INCLUDING ALL WORK CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED OUT FOR.

Ocala International Airport

OCALA INTERNATIONAL AIRPORT
CITY OF OCALA

Michael Baker
INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
4211 WEST BOY SCOUT BLVD., SUITE 500
TAMPA, FL 33607
PHONE 813-889-3892 ● FAX 813-889-3893
FLORIDA LICENSE # AA 26002484

Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

Project Name: GENERAL AVIATION TERMINAL BUILDING

Drawing Name: GENERAL NOTES

Project Number: No. 161641 | Division : Architecture

Date: November 15, 2017

Drawing Number: G-002

Code Compliance Schedule

-2017 Florida Building Code (FBC) for:
Building, Plumbing, Mechanical, and Fuel Gas, Energy Efficiency, Existing building, and 2017 Florida Accessibility Code.
-National Electrical Code - NFPA 70, NFPA 70A, & Ch27 & 33 FBC
- Florida Fire Prevention Code 5th Edition
-2017 FBC Wind Maps & Local Wind Map
-NFPA 101 Life Safety Code
-ANSI 117.1-1980
-Americans with Disabilities Act & ACCESSIBILITY GUIDELINES (ADA) (ADAAG)
-PINELLAS COUNTY, FL - Building and Inspection Department

Project Information

Project Location:
OCALA INTERNATIONAL AIRPORT
CITY OF OCALA, FL

Owner:
OCALA INTERNATIONAL AIRPORT
CONTACT: MATT GROW - AIRPORT DIRECTOR
PHONE: 352-629-8377

Architect:
MICHAEL BAKER INTERNATIONAL
4211 WEST BOY SCOUT BLVD, SUITE 500
TAMPA, FLORIDA 33607
PHONE:813-889-3892 FAX: 813-889-3893

Building Department Contacts:
XXXX
PHONE: (XXX) XXX-XXXX

Zoning/Flood Information:
Parcel ID. - 34-29-16-00110-0000-0000
Flood Zone "x" 500

Code Compliance Information

USE GROUP / OCCUPANCY CLASSIFICATION:
ASSEMBLY (Group A-3) ACCESORY MECH/ELECT. SPACE
(FBC Chapter 3, Section 303 / 303.1 A-3)

CONSTRUCTION TYPE:
Type II, B. Sprinkled
(FBC Chapter 6, Section 602.2)

BUILDING DATA:
FBC Table 504.3 - A,B,M,S - Sprinkled:

	Allowed	Designed
Number of Floors	3	
Maximum Height	75 FT	52 FT
		1
ALLOWABLE AREA		
A-2 Assembly Area	38,000 SF	3,099 SF
A-3 Assembly Area	38,000 SF	3,059 SF
B Business Area	92,000 SF	6,104 SF
M Mercantile Area	50,000 SF	1,309 SF
S Storage Area	70,000 SF	758 SF
Total Floor Area (Most Restringent)	38,000 SF	17,500 SF

Note: Provisions for area and height calculations are taken from FBC 508.3 and designed as Nonseparated occupancies.

Parapet Height-None Req. per FBC 705.11. Roof Class "A"&"B"Min	
Wind Speed = 155 mph / Risk Category III	
"R" / "U" Values: Per Design:	
Roof: R30 Min.	
Walls: R13 Min. (COMPOSITE R-VALUE)	
Glass: U < 0.45 & SHGC < or = 0.25 (Windows & Skylights) Insulated GL; Impact Rated	
RATED SEPARATIONS (FBC Table 508.4 & Chapter 7) - Sprinkled:	
Occupancy Separation (FBC 508.4)	1 Hour
Storage Room (FBC 707.3.6)	None
Mechanical and Electrical (FBC 707.3.6)	0 Hour
Assembly Room <750 SF (FBC 303.1.3)	1 Hour
Tenant Separation (FBC 709.1)	1 Hour
Exit Access Corridor <30 (FBC Table 1018.1/4)	0 Hour
Exit Access Corridor = or >30 (FBC Table 1018.1)	0 Hour
Shaft Enclosures <4 Stories (FBC 708.4)	1 Hour
Structure (FBC Table 601, Note H)	1 Hour
Party & Fire Walls (FBC 503.2)	4 Hour
Egress Stairs (N/A)	--
OPENING PROTECTION:	
Exit Access Corridors (FBC Table 715.3)	20 Min.
Toilet Rooms (FBC 715.4)	None
INTERIOR FINISHES (FBC Chapter 8. Table 803.9, Note B :	
Lobbies and Corridors	Class B
Exit Access Corridors	Class B
Other Spaces	Class B
FIRE SUPPRESSION SYSTEMS (FBC Chapter 9):	
Sprinklered (NFPA 13)	Yes
Standpipe (905)	N/A
Manual Fire Alarm	Yes
Automatic Fire Alarm	Yes
Fire Extinguishers (FBC Table 906.3)	
Maximum Travel Distance	< 75FT
Quantity Required = 2	Yes (7 Provided)

OCCUPANT LOAD (FBC Table 1004.1.1):	
Assembly Space, (Unconcentrated) (A-2)	2,566 SF
Future Restaurant Dinning Area @ 15 SF Gross / Occupant	172 Occupants
Assembly Space, (Unconcentrated) (A-2)	534 SF
Kitchen Commercial @ 200 SF Gross / Occupant	3 Occupants
Assembly Space, (Unconcentrated) (A-3)	3,059 SF
Airport Terminal Waiting Assembly @ 15 SF Gross / Occupant	204 Occupants
Business Occupancy	5,104 SF
Business @ 100 SF Gross / Occupant	51 Occupants
Mercantile Occupancy	1,309 SF
Mercantile @ 60 SF Gross / Occupant	22 Occupants
Storage Space (S)	758 SF
Storage @ 300 SF Gross/Occupant	3 Occupants
TOTAL OCCUPANT LOAD	455 OCCUPANTS
EGRESS REQ'D W/ DRS 0.2 IN./ OCCP.	91 IN. TOTAL
EGRESS REQUIREMENTS (FBC Ch 10):	
Minimum Number of Exits (Table 1021.1)	4 Exits
Dead End Corridor (Table 1018.4/-2)	50 Feet (Max.)
Travel Distance for Exit (A-2) Table 1017.1	250 Feet (Max.)
Travel Distance for Exit (A-3) Table 1017.1	250 Feet (Max.)
Travel Distance for Exit (B) Table 1017.2	300 Feet (Max.)
Travel Distance for Exit (M) Table 1017.2	250 Feet (Max.)
Travel Distance for Exit (S) Table 1017.1	400 Feet (Max.)
Corridor / Aisle Width (FBC 1020.2)	44 Inches (Min.)
Exit Door Clear Opening Width	32 Inches (Min.)
Panic Door Hardware Required Only @ Rooms w/ >50 Occupants	
ACCESSIBILITY (FBC Accessibility Code):	PROVIDED
Accessible Parking / Route (EXISTING)	X Provided
Accessible Entrance	2 Provided
Accessible Restroom	7 Provided

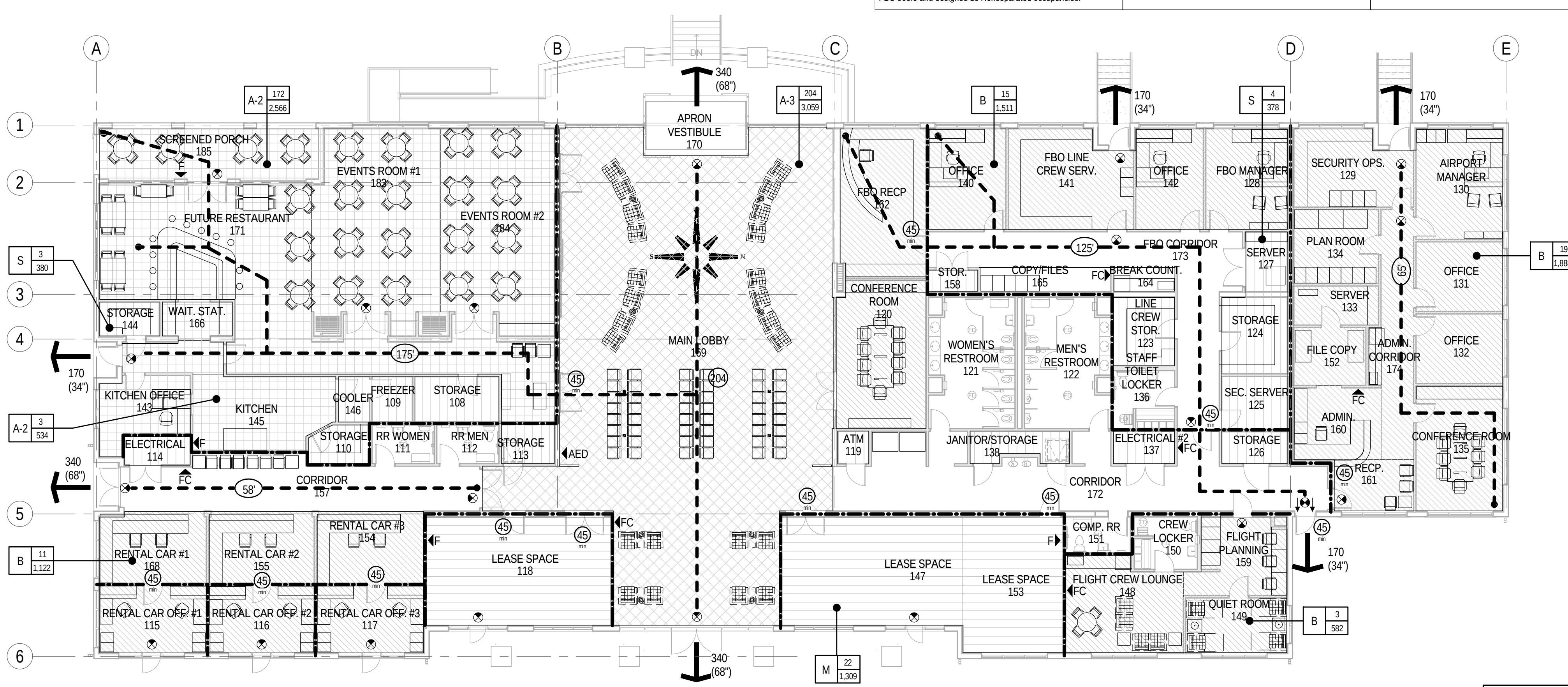
Code Plan Legend

Space Tag (A1 / 50 / 5000)
- Number of Occupants
- Area of Room / Space
- Room / Space Occupancy Type

Space Egress Tag (XX / (XX"))
- Max Number of Occupants Thru Opening
- Direction of Travel
- Clear Width of Door in Inches

Building Egress Tag (XX / (XX"))
- Max Number of Occupants Thru Opening
- Direction of Travel
- Clear Width of Door in Inches

F — Fire Extinguisher (Wall Mount)
FC — Fire Extinguisher & Cabinet
AED — Defibrillator & Cabinet with Alarm
Door on Hold Open / Release Device-Connect to Fire Alarm
CR — Doors to Have Electric Locks & Emergency Push Button Within 5'-0" of Door
W — Egress Window
Exit Light Direction of Travel
X' — Egress Travel Distance
New Wall
Existing Wall
New Bldg Addition
Existing Construction
20 min — Door Rating (minutes)



TRUE NORTH

1 LIFE SAFETY PLAN
SCALE: 3/32" = 1'-0"

ALL STRUCTURAL STEEL BUILDING FRAMING TO BE FIREPROOF

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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
LIFE SAFETY PLAN

Project Number:	Division:
No. 161641	Architecture

Date: November 15, 2017

Drawing Number: G-101

GENERAL NOTES:

1. THE TERM "CONTRACTOR" USED THROUGHOUT THE DESIGN CRITERIA PACKAGE DOCUMENTS (DCP) SHALL MEAN THE "DESIGN BUILDER" FOR THE PROJECT. THE DESIGN CRITERIA PACKAGE DOCUMENTS SHALL INCLUDE ALL DRAWINGS, SPECIFICATIONS AND CONTRACT REQUIREMENT FOR THE DESIGN AND CONSTRUCTION OF THE PROPOSED GA TERMINAL WORK. THE DESIGN CRITERIA PACKAGE DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL ESTABLISH THE BASE LINE STANDARD FOR THE PROJECT. THE DESIGN BUILDER MAY SUBMIT SUBSTITUTIONS FOR CONSIDERATION BY THE OWNER AND THE DESIGN CRITERIA PROFESSIONAL AS OUTLINED IN THE DIVISION 01 SPECIFICATION AND THE PROCUREMENT DOCUMENTS.

2. CONSTRUCTION STAKE-OUT SHALL BE PERFORMED BY CONTRACTOR IN ACCORDANCE WITH ARTICLE 50-06 OF THE SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MEASUREMENTS THAT MAY BE REQUIRED TO LAYOUT THE CONSTRUCTION. THE COST OF STAKING WILL NOT BE PAID FOR DIRECTLY AND WILL BE INCLUDED IN THE COST OF THE WORK.

3. THE CONTRACTOR SHALL CONDUCT ALL CONSTRUCTION OPERATIONS AS SHOWN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE AIRPORT TO MINIMIZE INTERFERENCE TO AIRCRAFT/AIRPORT OPERATIONS DURING CONSTRUCTION.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND IDENTIFICATION OF ALL EXISTING UTILITIES AND UNDERGROUND PIPELINES AND FAA FACILITIES WITHIN CONSTRUCTION AREA. ANY DAMAGES TO EXISTING UTILITIES OR UNDERGROUND PIPELINES ON OR OFF AIRPORT PROPERTY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL REPAIR WORK SHALL MEET THE APPROVAL OF THE OWNER OF THE DAMAGED UTILITY. NO REIMBURSEMENT WILL BE ALLOWED FOR UTILITY/PIPE REPAIR OR REPLACEMENT. PRIOR TO DIGGING ANY TRENCHES, CONTRACTOR SHALL NOTIFY ALL UTILITIES (ELECTRIC, GAS, FIBER, TELEPHONE, WATER, SEWER) AND OBTAIN LOCATIONS OF UNDERGROUND UTILITIES.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND DISPOSAL OF ALL TRASH AND DEBRIS CREATED BY HIS WORK OR PERSONNEL. ALL TRASH AND DEBRIS MUST BE PROPERLY DISPOSED OF OFFSITE.

6. CONTRACTOR SHALL PROTECT ALL EXISTING AIRFIELD LIGHTING, SIGNS, AND NAVAID EQUIPMENT IN THE VICINITY OF THE WORK AREA. ANY DAMAGE WILL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

7. CONTRACTOR SHALL VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE AIRPORT ANY VARIATIONS FROM THE INFORMATION SHOWN ON THE CONSTRUCTION PLANS.

8. ANY DAMAGES DONE TO AIRPORT PROPERTY OR UTILITIES (SUCH AS RUNWAY, TAXIWAYS, APRONS, FENCING, EXISTING CABLES) WILL BE REPAIRED BY THE CONTRACTOR TO THE APPROVAL OF THE AIRPORT IN A SATISFACTORY MANNER. THE CONTRACTOR SHALL BEAR ALL COSTS FOR REPAIRS.

9. THE EXISTING AIRPORT PAVEMENTS, ACCESS ROADS, AND HAUL ROUTES MAY NOT BE CAPABLE OF SUPPORTING CERTAIN TYPES OF CONSTRUCTION EQUIPMENT. PRIOR TO BIDDING, THE CONTRACTOR SHALL FULLY SATISFY HIMSELF AS TO THE ABILITY OF THE EXISTING AIRPORT PAVEMENTS TO SATISFACTORILY SUSTAIN THE TYPE OF EQUIPMENT HE PLANS TO USE. CONTRACTOR SHALL SIZE THE EQUIPMENT USED FOR CONSTRUCTION ACCORDINGLY. THE CONTRACTOR SHALL PHOTOGRAPH AND/OR VIDEO THE HAUL ROUTE PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES AND SUBMIT A COPY TO THE ENGINEER AND THE AIRPORT. ANY DAMAGE CAUSED BY HAULING OR ANY OTHER CONSTRUCTION ACTIVITY TO EXISTING PAVEMENT SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

10. AREAS OUTSIDE THE PROJECT LIMITS ARE DESIGNATED AS RESTRICTED AREAS. THE CONTRACTOR'S FORCES ARE PROHIBITED FROM ENTERING RESTRICTED AREAS AT ANY TIME, UNLESS SPECIFICALLY AUTHORIZED BY THE AIRPORT OR AIRPORT OPERATIONS.

11. THE ENGINEER OF RECORD SHALL DESIGNATE AREAS TO BE USED BY THE CONTRACTOR FOR THE PARKING OF CONSTRUCTION EQUIPMENT AND VEHICLES WHEN NOT ENGAGED IN THE CONSTRUCTION DURING NON-WORKING DAYS AND NIGHTS AS WELL AS AREAS FOR CONTRACTOR'S EMPLOYEES AUTO PARKING, AND SUBMIT THE PLAN TO THE AIRPORT FOR APPROVAL.

12. TAXIWAYS, RUNWAYS AND EXISTING APRONS SHALL BE KEPT FREE OF ALL DEBRIS, DIRT, ETC., AT ALL TIMES. ANY SPILLAGE OF EXCAVATION OR OTHER MATERIAL SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR WITH A MOTOR DRIVEN SWEEPER OR VACUUM AS REQUIRED BY THE ENGINEER OR AIRPORT. A PROGRAM OF REGULAR TAXIWAY AND APRON INSPECTION WILL BE PLANNED BY THE CONTRACTOR, THE ENGINEER OF RECORD, AND THIS PROGRAM SHALL BE SUBJECT TO THE AIRPORT'S APPROVAL.

13. CONTRACTOR SHALL MAINTAIN ALL AIRFIELD SAFETY DEVICES, SUCH AS STAKED LIMIT LINES, FOR THE DURATION OF THE PROJECT AS REQUIRED. DAMAGED STAKES OR FLAGGING SHALL BE REPLACED IMMEDIATELY. CONTRACTOR TO SUBMIT PLAN SHOWING LOCATION OF LIMIT LINES FOR EACH PHASE AND FOR PROJECT DURATION TO THE ENGINEER AND AIRPORT FOR APPROVAL.

14. ANY UNPLANNED, UNAPPROVED, OR ACCIDENTAL SHUTDOWN OR INTERRUPTION OF SERVICE TO ANY LIGHTING CIRCUIT OR NAVIGATIONAL AID REQUIRES IMMEDIATE NOTIFICATION OF THE AIRPORT AND AIRPORT BY THE CONTRACTOR. THE COST OF MATERIALS AND LABOR REQUIRED TO REPAIR THE LIGHTING CIRCUIT SHALL BE BORNE BY THE CONTRACTOR.

15. JET AIRCRAFT OPERATING ON THE AIRFIELD MAKE THE CONSTRUCTION AREA A HIGH LEVEL OF NOISE. THE CONTRACTOR IS ADVISED TO TAKE THE NECESSARY PRECAUTIONS, SUCH AS THE USE OF EAR PLUGS AND EAR MUFFS TO PREVENT EAR INJURY TO ANY PERSONNEL WORKING IN THE AREA.

GENERAL, SECURITY, AND QUALITY CONTROL NOTES:

GENERAL NOTES (CONT.):

16. ALL DISPUTES ARISING FROM THE CONTRACTOR SHALL BE DECIDED BY THE ENGINEER OF RECORD, WHOSE DECISION SHALL BE FINAL.

17. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ALL PERMANENT AND TEMPORARY UTILITY CONNECTIONS TO THE STAGING AREA.

18. BURNING OF DEBRIS WILL NOT BE ALLOWED ON AIRPORT PROPERTY.

19. THE CONTRACTOR SHALL PROVIDE FOR A WATER SOURCE OR OTHER MEANS ON SITE FOR THE PURPOSE OF CONTROLLING DUST AS REQUIRED BY THE CONTRACT DOCUMENTS OR AS REQUESTED BY THE AIRPORT DURING CONSTRUCTION.

20. HAUL ROUTES: LOCATION OF HAUL ROUTES ON THE AIRPORT SITE SHALL BE AS SHOWN ON THE CONTRACT DOCUMENTS PREPARED BY THE ENGINEER OF RECORD AS APPROVED BY THE AIRPORT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL OR IMPROVED CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. THE BEFORE AND AFTER CONDITION OF ON-SITE HAUL ROUTES SHALL BE JOINTLY INSPECTED AND DETERMINED BY THE CONTRACTOR, THE ENGINEER OF RECORD, AIRPORT OR AIRPORT DESIGNATED REPRESENTATIVES, FENCING, DRAINAGE, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY AIRPORT OPERATIONS PRIOR TO THE WORK. ALL ON-SITE FAA ACCESS ROADS TO FAA FACILITIES SHALL REMAIN OPEN AND MAINTAINED AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO HAUL ROUTES RESULTING FROM CONSTRUCTION TRAFFIC.

21. ON AIRPORT HAUL ROUTE: VEHICLES SHALL YIELD THE RIGHT OF WAY TO AIRCRAFT ON TAXIWAYS, RUNWAYS AND APRONS. OPERATORS SHALL PULL THEIR VEHICLES OVER CLEAR OF SAFETY AREAS AND STOP WHEN AIRCRAFT IS ENCOUNTERED, PERSONNEL SHALL RECEIVE CLEARANCE PRIOR TO ENTERING ACTIVE TAXIWAYS AND RUNWAYS AND ONLY WITH THE PERMISSION OF AIR TRAFFIC CONTROL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY ACTIVE MOVEMENT AREAS. CARE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ALL IN-PAVEMENT LIGHTING. CONTRACTOR SHALL BE RESPONSIBLE FOR SWEEPING ALL AIRCRAFT MOVEMENT AREAS AFFECTED BY CONSTRUCTION OPERATIONS DAILY OR AT THE DIRECTION OF AIRPORT OPERATIONS. ALL NON-PAVED AREAS OUTSIDE ALL THE LIMITS OF CONSTRUCTION WHICH ARE DISTURBED BY THE CONTRACTORS OPERATIONS SHALL BE RESTORED AND GRASSED PER SPECIFICATION FDOT 570 UPON COMPLETION OF THE PROJECT. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.

22. WASTE DISPOSAL AND BORROW AREAS: ALL WASTE MATERIAL MUST BE DISPOSED OF AT A SITE APPROVED BY CITY OF OCALA. EXCESS EXCAVATED MATERIAL, REMOVED AND DEMOLISHED ITEMS SHALL BE THE PROPERTY OF THE CONTRACTOR EXCEPT WHERE OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS. ALL HAZARDOUS MATERIALS ENCOUNTERED SHALL BE DEPOSITED OFFSITE IN ACCORDANCE WITH EPA REGULATIONS.

23. PERMITS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL APPLICABLE PERMITS FOR DESIGN, CONSTRUCTION AND EQUIPMENT, INCLUDING BUT NOT NECESSARILY LIMITED TO: CITY OF OCALA BUILDING PERMIT, FAA 7460 - NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION, SOUTH FLORIDA WATER MANAGEMENT DISTRICT PERMIT, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION WATER AND WASTEWATER PERMITS, LOCAL CITY AND HEALTH DEPARTMENT PERMITS AND A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT.

24. CONSTRUCTION LIMITS AND FLAGMEN: ALL CONTRACTOR VEHICLES AND TRAFFIC SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION LIMITS, STAGING AREA, OR HAUL ROUTES. ABSOLUTELY NO CONTRACTOR VEHICLES WILL BE ALLOWED ON OTHER ACTIVE AIRFIELD OPERATIONS AREAS.

25. COORDINATION OF CONSTRUCTION ACTIVITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONSTANT COORDINATION BETWEEN SUBCONTRACTORS, AIRPORT FACILITIES, AIRPORT OPERATION AND THE ENGINEER OF RECORD, OWNER AND DESIGN CRITERIA PROFESSIONAL . ALL CONSTRUCTION ACTIVITIES PLANNED BY THE CONTRACTOR SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD, OWNER AND DESIGN CRITERIA PROFESSIONAL, OPERATIONS, AND THE AIRPORT CAPITAL PROGRAM ADMINISTRATOR.

26. STAGING AREAS AND CONTRACTOR UTILITIES: STAGING AREAS DO NOT HAVE UTILITIES. ANY UTILITIES REQUIRED BY THE CONTRACTOR SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL STAGING AREAS ARE TO BE RESTORED TO A GRADED, TURFED, DRAINABLE CONDITION. CONTRACTOR SHALL ACQUIRE AND MAINTAIN A CHEMICAL TOILET FOR USE BY CONSTRUCTION PERSONNEL NO PRIVIES.

27. CONTRACTOR SHALL COORDINATE WITH THE AIRPORT OPERATIONS TO ENSURE ALL EXISTING STORAGE EQUIPMENT WITHIN THE PROJECT LIMITS IS RELOCATED PRIOR TO CONSTRUCTION.

28. PERMIT AND IMPACT FEES AND CONNECTION OF UTILITY COSTS: THE CONTRACTOR SHALL INCLUDE THE COST OF ALL PERMIT FEES, IMPACT FEES, AND UTILITY CONNECTION AND TAP FEES WITHIN THE LUMP SUM PRICE PROPOSAL.

29. TEMPORARY FACILITIES: TEMPORARY MODULAR BUILDINGS, ADA ACCESSIBLE RAMPS, ACCESS STAIRWAYS, AND TEMPORARY AOA PARKING AREAS SHALL BE PROVIDED FOR THE DISPLACED RENTAL CAR AGENCIES PRIOR TO DEMOLITION OF THE EXISTING TERMINAL BUILDING. THE POWER, WATER, TELEPHONE AND SEWER CONNECTIONS SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK. RENTAL CAR AGENCY POWER SHALL BE SEPARATELY METERED.

30. ATCT LINE OF SIGHT: CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING AN AIR TRAFFIC CONTROL TOWER (ATCT) LINE OF SIGHT ASSESSMENT AS IT RELATES TO POTENTIAL OBSTRUCTION RESULTING FROM THIS PROJECT.

SECURITY NOTES:

1. GENERAL INTENT: IT IS INTENDED THAT THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE AIRPORT SECURITY PLAN AND WITH THE SECURITY REQUIREMENTS SPECIFIED THEREIN BY AIRPORT OPERATIONS. THE CONTRACTOR SHALL DESIGNATE TO THE ENGINEER AND AIRPORT OPERATIONS, IN WRITING, THE NAME OF HIS "CONTRACTOR SECURITY OFFICER (CSO)." THE CSO SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS FOR THE CONTRACT.

2. CONTRACTOR PERSONNEL SECURITY ORIENTATION: THE CSO SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR AND SUBCONTRACTOR PERSONNEL ON SECURITY REQUIREMENTS. ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON SECURITY REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.

3. ACCESS TO THE SITE: CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE DESIGN CRITERIA PLANS. NO OTHER ACCESS POINTS SHALL BE ALLOWED UNLESS APPROVED BY AIRPORT OPERATIONS. ALL CONTRACTOR TRAFFIC AUTHORIZED TO ENTER THE SECURED SIDA OR AOA SHALL BE EXPERIENCED IN THE ROUTE OR ESCORTED BY BADGED CONTRACTOR PERSONNEL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE VARIOUS CONSTRUCTION AREAS ON THE SITE, AND FOR THE OPERATION AND SECURITY OF THE ACCESS GATE TO THE SITE. A BADGED CONTRACTOR'S FLAGMAN OR BADGED TRAFFIC CONTROL PERSON SHALL MONITOR AND COORDINATE ALL CONTRACTOR TRAFFIC AT THE ACCESS GATE WITH SECURITY. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE SITE. ACCESS GATES TO THE SECURED SIDA OR AOA SHALL BE SECURED AND LOCKED WHEN UNATTENDED. IF THE CONTRACTOR CHOOSES TO LEAVE ANY ACCESS GATE OPEN, IT SHALL BE ATTENDED BY BADGED CONTRACTOR PERSONNEL WHO ARE FAMILIAR WITH THE REQUIREMENTS OF THE AIRPORT OPERATIONS SECURITY PROGRAM. THE CONTRACTOR IS RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY DEBRIS DEPOSITED ALONG THE ACCESS ROUTE AS A RESULT OF HIS CONSTRUCTION TRAFFIC. DIRECTIONAL SIGNING FROM THE ACCESS GATE ALONG THE DELIVERY ROUTE TO THE STORAGE AREA, PLANT SITE OR WORK SITE SHALL BE DIRECTED BY AIRPORT OPERATIONS.

4. MATERIAL DELIVERY TO THE SITE: ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE WORK SITE WILL USE 1770 SW 60TH AVE. 34474 AS A DELIVERY ADDRESS, THE STREET NAME ASSIGNED TO THE ACCESS POINT AT THE CONTRACTOR'S STAGING SITE AT THE AIRPORT. THE NAME "OCALA INTERNATIONAL AIRPORT" SHALL NOT BE USED IN THE DELIVERY ADDRESS AT ANY TIME. THIS WILL PRECLUDE DELIVERY TRUCKS FROM ENTERING THE WRONG LOCATION OR TAKING SHORT CUTS THROUGH THE PERIMETER GATES AND ENTERING INTO AIRCRAFT OPERATIONS AREA INAPPROPRIATELY.

5. CONSTRUCTION AREA LIMITS: THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, PLANT SITE, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS DEFINED AS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED BY THE CONTRACTOR. THE CONTRACTOR SHALL ERECT AND MAINTAIN AROUND THE PERIMETER OF THESE AREAS SUITABLE FENCING, MARKING AND/OR WARNING DEVICES VISIBLE FOR DAY/NIGHT USE. TEMPORARY BARRICADES, FLAGGING AND FLASHING WARNING LIGHTS WILL BE REQUIRED AT CRITICAL ACCESS POINTS. TYPE OF MARKING AND WARNING DEVICES SHALL BE APPROVED BY AIRPORT OPERATIONS.

6. IDENTIFICATION-PERSONNEL: EMPLOYEES, AGENTS VENDORS, INVITEES, ETC. OF THE CONTRACTOR OR SUBCONTRACTORS REQUIRING ACCESS TO THE CONSTRUCTION SITE SHALL, IN ACCORDANCE WITH THE AIRPORT OPERATIONS SECURITY PROGRAM,AND WITHIN THE SECURITY SIDA OR AOA BE REQUIRED TO DISPLAY OCALA INTERNATIONAL AIRPORT ISSUED IDENTIFICATION, OR BE UNDER ESCORT BY A PROPERLY BADGED PERSONNEL. A CHARGE OF $25.00 IS REQUIRED FOR EACH BADGE APPLICATION. THESE BADGES WILL BE IDENTIFIED NUMERICALLY AND ISSUED TO INDIVIDUAL EMPLOYEES WITH A PERMANENT RECORD MAINTAINED ON EACH INDIVIDUAL TO WHOM A BADGE IS ISSUED. AT THE COMPLETION OF THE CONTRACT ALL BADGES WILL BE RETURNED TO AIRPORT OPERATIONS OR AN ADDITIONAL CHARGE OF $50 PER BADGE WILL BE ASSESSED FOR ALL BADGES NOT RETURNED. IDENTIFIABLE HARD HATS OR OTHER IDENTIFICATION SHALL ALSO BE REQUIRED FOR EMPLOYEES AT ALL TIMES. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR BACKGROUND CHECKS ON ALL OF ITS OWN EMPLOYEES AND ALL SUBCONTRACTOR EMPLOYEES. THE CONTRACTOR AND ITS STAFF IS RESPONSIBLE FOR ATTENDING TRAINING AND COMPLETING SECURITY BADGE APPLICATIONS. ESTIMATED TIME FOR COMPLETION IS 1 HOUR.

7. FINES: PAYMENT OF ALL FINES ASSESSED TO OCALA INTERNATIONAL AIRPORT DUE TO VIOLATIONS BY THE CONTRACTOR OF FAA SECURITY OR SAFETY REQUIREMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

QUALITY CONTROL PLAN

1. WITHIN 10 DAYS OF NOTIFICATION OF INTENT TO AWARD FOR THE CONSTRUCTION PHASE, THE CONTRACTOR SHALL SUBMIT SEVEN (7) COPIES OF A WRITTEN QUALITY CONTROL PLAN. THE CONTRACTOR SHALL DESIGNATE A QUALITY CONTROL OFFICER RESPONSIBLE FOR THE QUALITY OF CONSTRUCTION AND SHALL INCLUDE AN ORGANIZATIONAL CHART DESIGNATING QUALITY CONTROL RESPONSIBILITIES. THE PLAN SHALL ENCOMPASS A PROGRAM OF QUALITY CONTROL ACTIVITIES FOR THE PROJECT AS A WHOLE, AS WELL AS SPECIFIED PROCEDURES FOR EACH ELEMENT OF WORK.

2. FOR EACH MAJOR ELEMENT OF WORK, THE CONTRACTOR SHALL DESCRIBE IN THE QUALITY CONTROL PLAN PRELIMINARY INSPECTION PROCEDURES TO BE ACCOMPLISHED PRIOR TO START UP, PROGRESS INSPECTION PROCEDURES TO MONITOR THE WORK IN PROGRESS, AS WELL AS FINAL INSPECTIONS TO VERIFY ALL TESTS HAVE BEEN PERFORMED AND ARE PASSING, AND ALL CONDITIONS OF THE SPECIFICATIONS HAVE BEEN MET.

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CITY OF OCALA

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PHONE 813-889-3892 ● FAX 813-889-3893

Key Plan:

Design Criteria Package (DCP) - Final Review
November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
SMS	SMS	NEP

Project Name:
GENERAL AVIATION TERMINAL

Drawing Name:
CIVIL GENERAL NOTES

Project Number:	Division :
No. 161641	Civil

Date:
November 15, 2017.

Drawing Number:
C0.01

EXISTING LEGEND

TREE LEGEND
(SIZE DENOTED INSIDE SYMBOL)

- CAMPHOR
- CEDAR
- CHERRY
- CHINABERRY
- CRAPE MYRTLE
- CYPRESS
- DOGWOOD
- ELM
- HICKORY
- HOLLY
- MAGNOLIA
- MAPLE
- MISC
- OAK
- PALM
- PECAN
- PINE TREE
- SWEETGUM

LEGEND *UNLESS OTHERWISE NOTED*

- ℄ = CENTERLINE OF RIGHT OF WAY
- F.F.E. = FINISH FLOOR ELEVATION
- O.R. = OFFICIAL RECORDS OF MARION COUNTY
- = SPOT ELEVATION
- ■ = FOUND 4" x 4" CONCRETE MONUMENT
- ○ = FOUND 5/8" IRON ROD & CAP
- ◉ = FOUND NAIL & DISK – LB 7560
- (F) = FIELD MEASUREMENT
- (D) = DEED DIMENSION
- (C) = CALCULATED DIMENSION
- = SANITARY CLEANOUT
- = SANITARY MANHOLE
- = GREASE TRAP/MANHOLE
- = DRAINAGE MANHOLE
- = STORM DRAINAGE GRATE
- = CABLE BOX
- = GAS METER
- = GAS VALVE
- = TELEPHONE BOX
- = TELEPHONE MANHOLE
- = ELECTRIC BOX
- = WOOD LIGHT POLE
- = WOOD POWER POLE
- = CONCRETE POWER POLE
- = CONCRETE LIGHT POLE
- = GUY ANCHOR
- = FLOOD/GROUND LIGHT
- = TAXIWAY LIGHTS
- = WATER METER
- = WATER VALVE
- = FIRE HYDRANT
- = FIRE DEPARTMENT CONNECTION
- = IRRIGATION CONTROL BOX
- = 4" WELL
- = BACKFLOW PREVENTOR
- = MAILBOX
- = SIGN
- = METAL REFLECTOR POST
- = BOLLARD
- P.V.C. = POLYVINYL CHLORIDE
- R.C.P. = REINFORCED CONCRETE PIPE
- C.M.P. = CORRUGATED METAL PIPE
- —A/E— = AERIAL ELECTRIC
- —UGE— = UNDERGROUND ELECTRIC
- —FO— = UNDERGROUND FIBER OPTIC
- —T— = UNDERGROUND TELEPHONE
- —W— = UNDERGROUND WATER
- = DENOTES CONCRETE
- = DENOTES ASPHALT

BASE SURVEY NOTES

1. DATE OF FIELD SURVEY: SE;TEMBER 7, 2017.
2. PUBLIC RECORDS NOT SEARCHED BY R.M. BARRINEAU & ASSOCIATES, INC.
3. UNLESS OTHERWISE SHOWN, UNDERGROUND IMPROVEMENTS NOT LOCATED.
4. BEARINGS ASSUMED BASED ON EAST BOUNDARY OF SECTION 20, TOWNSHIP 15 SOUTH, RANGE 21 EAST, AS BEING S.00°28'00"W.
5. ORIENTATION FOR THE IMPROVEMENTS SHOWN HEREON SHOULD NOT BE USED TO RECONSTRUCT BOUNDARY LINES.
6. ADDITIONS OR DELETIONS TO SURVEY MAPS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
7. THIS SURVEY DEPICTS THE PROPERTY AS IT EXISTED ON THE SURVEY DATE, NOT NECESSARILY THE SIGNATURE DATE.
8. THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE BENEFIT OF THE PARTY(IES) NAMED HEREON, AND SHALL NOT BE DUPLICATED OR RELIED UPON BY ANY OTHER INDIVIDUAL OR ENTITY WITHOUT AUTHORIZATION FROM R.M. BARRINEAU & ASSOCIATES, INC.
9. RIGHT OF WAY FOR S.W. 60TH AVENUE IS BASED ON RIGHT OF WAY MAP PREPARED FOR MARION COUNTY BOARD OF COUNTY COMMISSIONERS TRANSPORTATION DEPARTMENT, PREPARED BY GREENMAN-PEDERSEN, INC., PROJECT# 91740.02, RECORDED IN RIGHT OF WAY MAP BOOK 1, PAGE 45 OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA.
10. VERTICAL DATUM BASED ON CITY OF OCALA ENGINEERING DEPARTMENT CONTROL POINT 0010, ELEVATION = 79.13' NAVD-88.
11. STATE PLANE COORDINATES (FLORIDA WEST ZONE), NAD-83(CORS96) (EPOCH:2002.0000) BASED ON TRIMBLE VIRTUAL REFERENCE NETWORK AND REFERENCED TO CITY OF OCALA ENGINEERING DEPARTMENT CONTROL POINTS COED 0010 AND COED 0011.
12. UNDERGROUND UTILITIES WERE REQUESTED TO BE MARKED THROUGH TICKET NUMBER 086504143. LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON WERE OBTAINED BY DELINEATION DONE BY OTHERS AND WERE NOT VERIFIED BY R.M. BARRINEAU AND ASSOCIATES, INC.
13. THE SPECIFIC PURPOSE OF THIS SURVEY IS TO DELINEATE IMPROVEMENTS AND TOPOGRAPHIC FEATURES WITHIN PROJECT LIMITS AREA AS DEFINED BY CLIENT.

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ROUTING AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DEMOLITION, INCLUDING BUT NOT LIMITED TO SANITARY SEWER, POTABLE WATER, STORM SEWER, IRRIGATION, PRIMARY POWER, HIGH MAST LIGHTING, AND ALL OTHER CONDUITS, PIPES, OR CIRCUITS ENCOUNTERED WITHIN THE PROJECT LIMITS.

2. AT THE PRE CONSTRUCTION MEETING, THE CONTRACTOR SHALL PROVIDE A MAINTENANCE OF TRAFFIC PLAN FOR THE PURPOSES OF MAINTAINING AIRPORT PATRON ACCESS TO APPROPRIATE ACCESS GATES, AND FOR MAINTAINING ACCESS TO PUBLIC PARKING AREAS. PUBLIC AND AIRPORT TOWER.

3. CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS PRIOR TO CONSTRUCTION TO ENSURE THE SAFETY OF PASSENGER ROUTES.

4. LIMITS OF CONSTRUCTION ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

5. ALL UTILITIES ABANDONED IN PLACED SHALL BE CAPPED AND LOCATION NOTED ON THE RECORD DRAWINGS. ALL EXISTING UNDERGROUND UTILITIES THAT EXIST BELOW THE PROPOSED TERMINAL BUILDING FOOTPRINT THAT ARE TO BE RELOCATED OR THAT ARE NO LONGER ACTIVE SHALL BE REMOVED.

6. THE SURVEY INFORMATION PROVIDED IS FOR REFERENCE; NEITHER THE AIRPORT OR MICHAEL BAKER INTERNATIONAL OR THE SURVEYOR GUARANTEE THE LOCATION OR ACCURACY OF THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AND AIRFIELD LIGHTING AND COMMUNICATION WIRING PRIOR TO ANY EXCAVATION ACTIVITIES.

PARKING SPACE REQUIREMENTS

EXISTING PARKING SPACES = 124

EXISTING HANDICAP SPACES = 6

PARKING SPACES REQUIRED:

RENTAL CAR = 5
RESTAURANT = 40
AIRPORT / FBO STAFF = 21
PASSENGERS AND VISITORS = 16
RETAIL / MERCANTILE = 6
HANDICAP = 4

TOTAL REQUIRED EXCLUDING HANDICAP SPACES = 88

PARKING SPACES PROVIDED:

RENTAL CAR = 50
RESTAURANT = 40
AIRPORT / FBO STAFF = 21
PASSENGERS AND VISITORS = 16
RETAIL / MERCANTILE = 6
HANDICAP = 6

TOTAL REQUIRED EXCLUDING HANDICAP SPACES = 133 WITH 50 DESIGNATED RENTAL CAR SPACES.

NOTE:

ANY ADDITIONAL RENTAL CAR PARKING SHALL BE DESIGNED BY THE ENGINEER IN A FUTURE PARKING EXPANSION PROJECT IF THE AIRPORT OFFICE SPACE ALTERNATE IS ACCEPTED.

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Key Plan:

Design Criteria Package (DCP) - Final Review
November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
SMS	SMS	NEP

Project Name:
GENERAL AVIATION TERMINAL

Drawing Name:
CIVIL GENERAL NOTES

Project Number:	Division :
No. 161641	Civil

Date: November 15, 2017.

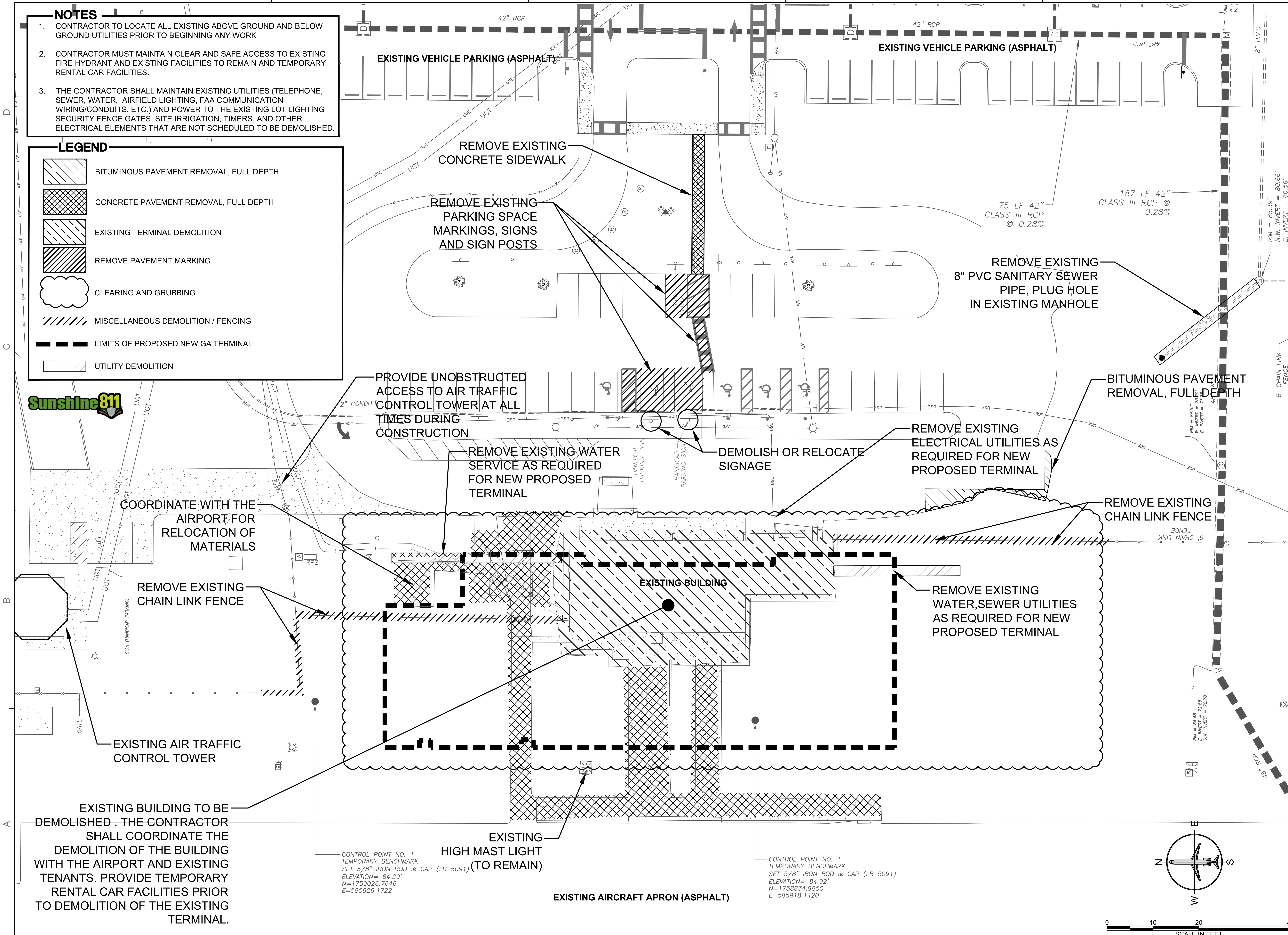
Drawing Number:
C0.02

NOTES

1. CONTRACTOR TO LOCATE ALL EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES PRIOR TO BEGINNING ANY WORK
2. CONTRACTOR MUST MAINTAIN CLEAR AND SAFE ACCESS TO EXISTING FIRE HYDRANT AND EXISTING FACILITIES TO REMAIN AND TEMPORARY RENTAL CAR FACILITIES.
3. THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITIES (TELEPHONE, SEWER, WATER, AIRFIELD LIGHTING, FAA COMMUNICATION WIRING/CONDUITS, ETC.) AND POWER TO THE EXISTING LOT LIGHTING SECURITY FENCE GATES, SITE IRRIGATION, TIMERS, AND OTHER ELECTRICAL ELEMENTS THAT ARE NOT SCHEDULED TO BE DEMOLISHED.

LEGEND

- BITUMINOUS PAVEMENT REMOVAL, FULL DEPTH
- CONCRETE PAVEMENT REMOVAL, FULL DEPTH
- EXISTING TERMINAL DEMOLITION
- REMOVE PAVEMENT MARKING
- CLEARING AND GRUBBING
- MISCELLANEOUS DEMOLITION / FENCING
- LIMITS OF PROPOSED NEW GA TERMINAL
- UTILITY DEMOLITION



Sunshine811
EXISTING VEHICLE PARKING (ASPHALT)
EXISTING VEHICLE PARKING (ASPHALT)
42" RCP
REMOVE EXISTING CONCRETE SIDEWALK
REMOVE EXISTING PARKING SPACE MARKINGS, SIGNS AND SIGN POSTS
75 LF 42" CLASS III RCP @ 0.28%
187 LF 42" CLASS III RCP @ 0.28%
REMOVE EXISTING 8" PVC SANITARY SEWER PIPE, PLUG HOLE IN EXISTING MANHOLE
RIM = 85.39' N.W. INVERT = 80.66' E. INVERT = 80.56' S. INVERT = 80.74'
8" P.V.C.
6' CHAIN LINK FENCE
PROVIDE UNOBSTRUCTED ACCESS TO AIR TRAFFIC CONTROL TOWER AT ALL TIMES DURING CONSTRUCTION
BITUMINOUS PAVEMENT REMOVAL, FULL DEPTH
REMOVE EXISTING WATER SERVICE AS REQUIRED FOR NEW PROPOSED TERMINAL
DEMOLISH OR RELOCATE SIGNAGE
REMOVE EXISTING ELECTRICAL UTILITIES AS REQUIRED FOR NEW PROPOSED TERMINAL
HANDICAP PARKING SIGN
COORDINATE WITH THE AIRPORT FOR RELOCATION OF MATERIALS
REMOVE EXISTING CHAIN LINK FENCE
REMOVE EXISTING CHAIN LINK FENCE
EXISTING BUILDING
REMOVE EXISTING WATER,SEWER UTILITIES AS REQUIRED FOR NEW PROPOSED TERMINAL
SIGN (HANDICAP PARKING)
GATE
RPZ
EXISTING AIR TRAFFIC CONTROL TOWER
48" RCP
EXISTING BUILDING TO BE DEMOLISHED . THE CONTRACTOR SHALL COORDINATE THE DEMOLITION OF THE BUILDING WITH THE AIRPORT AND EXISTING TENANTS. PROVIDE TEMPORARY RENTAL CAR FACILITIES PRIOR TO DEMOLITION OF THE EXISTING TERMINAL.
EXISTING HIGH MAST LIGHT (TO REMAIN)
CONTROL POINT NO. 1 TEMPORARY BENCHMARK SET 5/8" IRON ROD & CAP (LB 5091) ELEVATION= 84.29' N=1759026.7646 E=585926.1722
CONTROL POINT NO. 1 TEMPORARY BENCHMARK SET 5/8" IRON ROD & CAP (LB 5091) ELEVATION= 84.92' N=1758834.9850 E=585918.1420
EXISTING AIRCRAFT APRON (ASPHALT)
0 10 20 40
SCALE IN FEET

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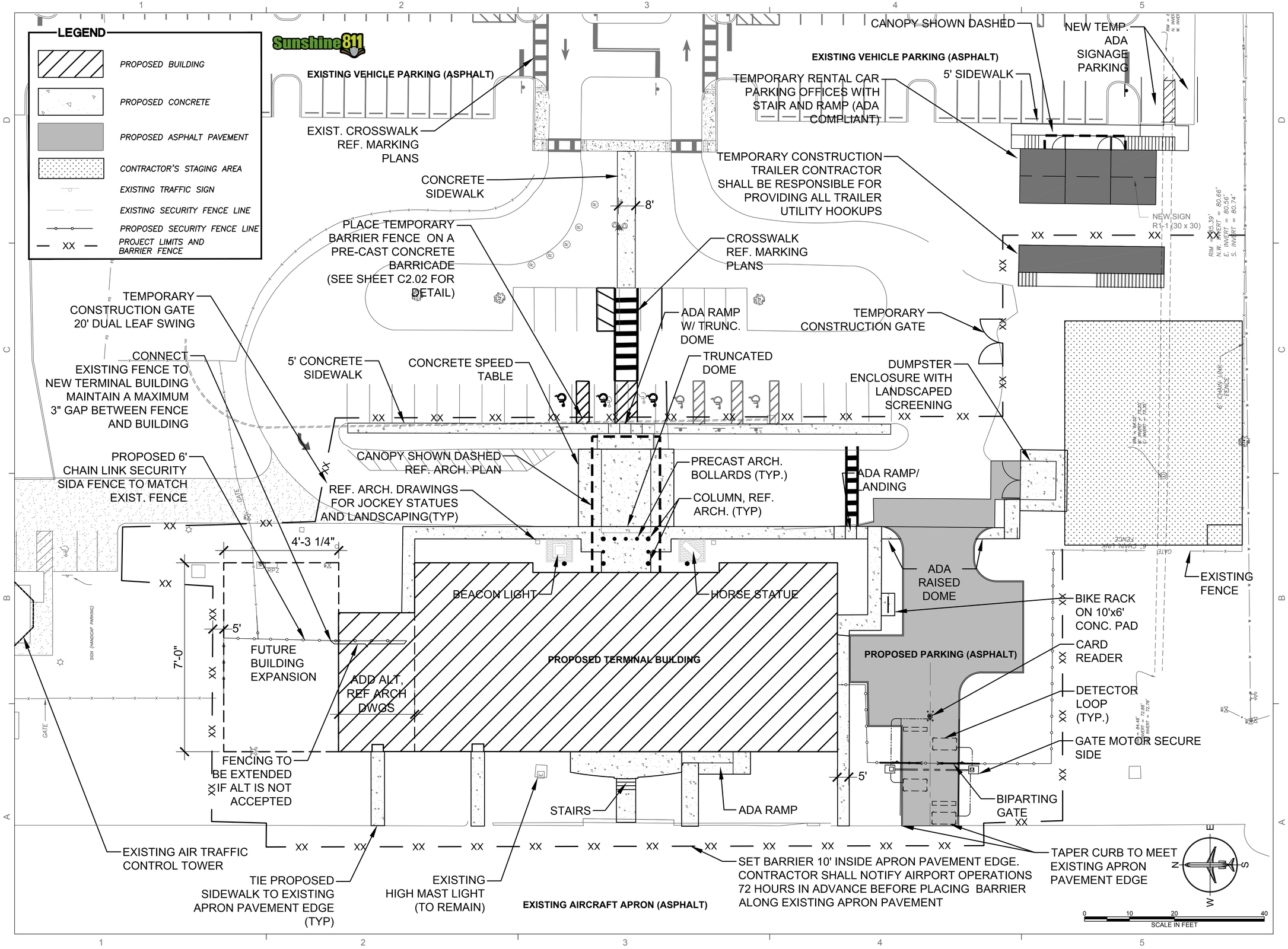
SMS	SMS	NEP

Project Name:
GENERAL AVIATION TERMINAL

Drawing Name:
DEMOLITION PLAN

Project Number: No. 161641
Division : Civil
Date: November 15, 2017.
Drawing Number: C1.00



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GENERAL AVIATION TERMINAL

Drawing Name:
SITE PLAN

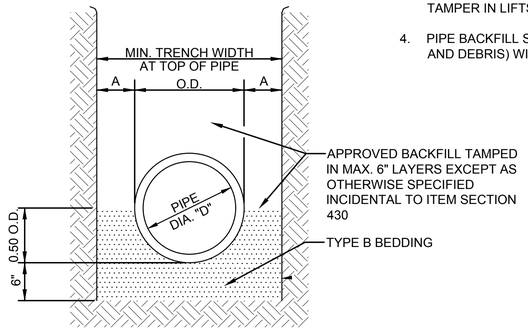
Project Number:	Division :
No. 161641	Civil

Date: November 15, 2017.

Drawing Number:
C2.00

NOTES:

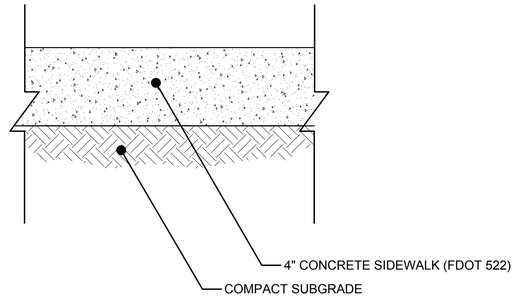
1. ALL RCP JOINTS AND PICK HOLES SHALL BE WRAPPED WITH A MINIMUM OF 3 L.F. OF NON-WOVEN FILTER FABRIC. COST IS INCIDENTAL TO ITEM SECTION 430.
2. ALL PROPOSED DRAINAGE PIPES SHALL FOLLOW THE PIPE BEDDING FOR RCP DETAIL.
3. A DENSITY OF AT LEAST 98% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) IS REGULATED FOR ALL FILL MATERIALS AND NATURAL SUBGRADE UNDER THE PIPELINE. THE SUBGRADE SOILS SHOULD BE FIRM AND STABLE PRIOR TO PLACEMENT OF THE PIPE. ONCE PIPE IS PLACED, BACKFILL AROUND SIDES OF PIPE ARE TO BE PLACED AND COMPACTED IN EQUAL LIFTS WITH A VIBRATORY TAMPER IN LIFTS NOT TO EXCEED 6 INCHES (LOOSE).
4. PIPE BACKFILL SHOULD BE CLEAN, FINE SAND (FREE OF CLAY, RUBBLE, ORGANICS AND DEBRIS) WITH LESS THAN 12% PASSING THE NO. 200 SIEVE.



PIPE BEDDING FOR RCP

N.T.S.

PIPE DIA. "D"	MIN. "A"
15" & LESS	8"
18" TO 21"	10"
24" TO 30"	12"
33" TO 42"	15"
48" & LARGER	18"

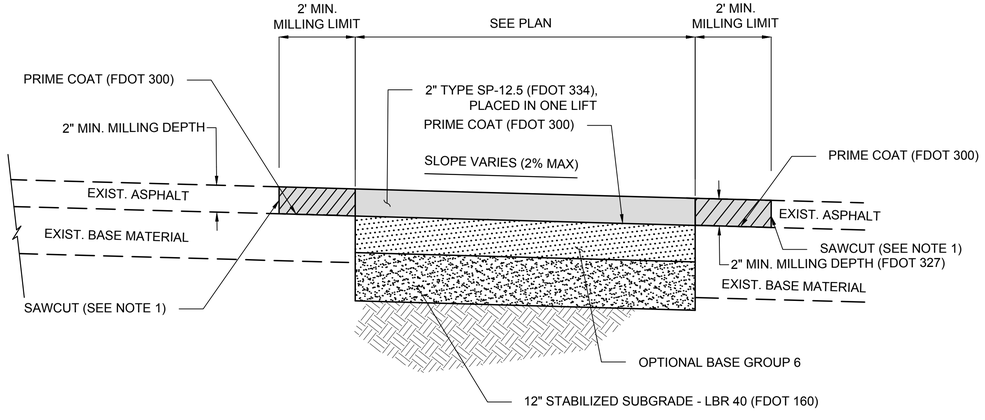


CONCRETE SIDEWALK DETAIL

N.T.S.

NOTES

1. SAWCUT EXISTING ASPHALT TO A NEAT STRAIGHT (OR CURVED WHERE INDICATED) VERTICAL LINES IN SOUND PAVEMENT. REMOVE EXISTING BASE COURSE TO NEAT VERTICAL LINES. MAINTAIN EDGE OF PAVEMENT TO NEAT SQUARE LINES. RAVELING OR DAMAGE AT EDGES THAT ARE UNACCEPTABLE TO THE ENGINEER SHALL BE RE-SAWCUT FOR ENTIRE LENGTH OF THE JUNCTURE AS DIRECTED BY THE ENGINEER OF RECORD AT THE CONTRACTOR'S EXPENSE BEFORE PLACEMENT OF THE NEW BASE OR SURFACE COURSE.



FULL DEPTH ASPHALT PAVEMENT AND TIE-IN TYPICAL SECTION

N.T.S.

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November 15, 2017.

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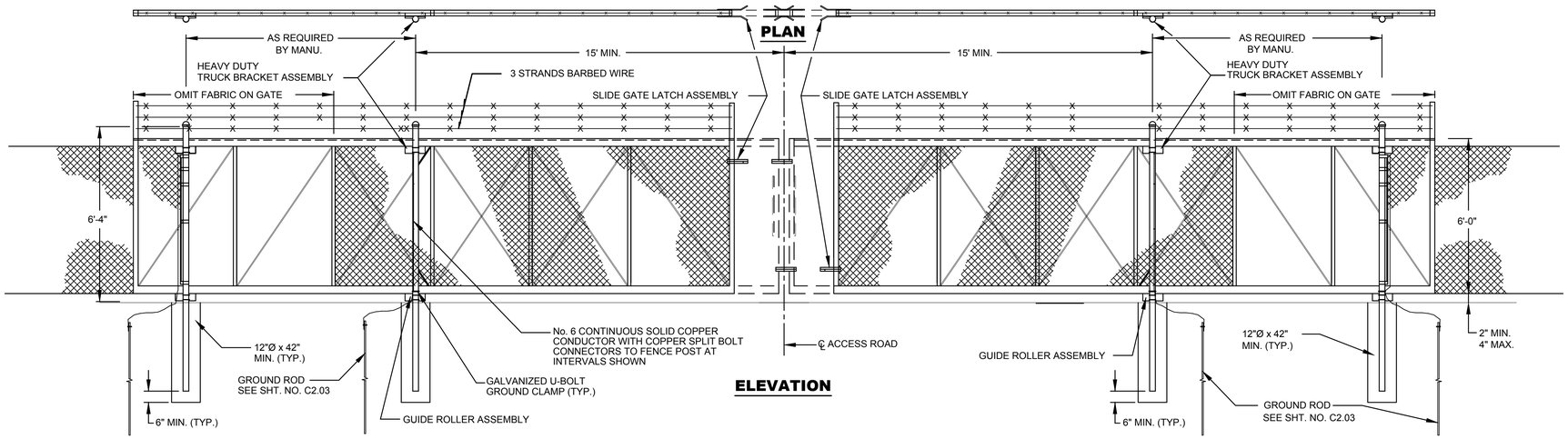
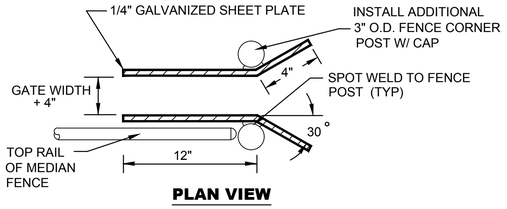


DUAL CANTILEVER SLIDE GATE DETAIL

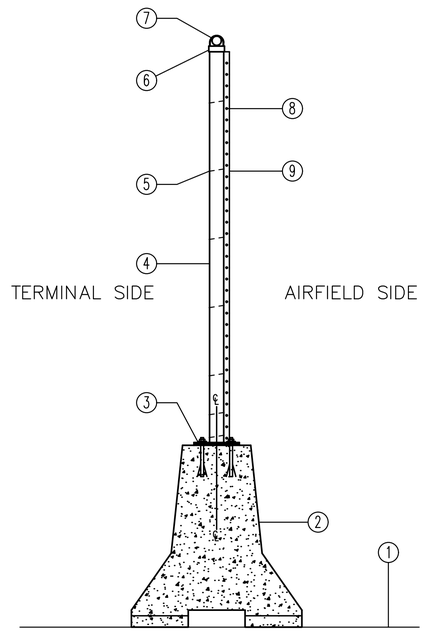
N.T.S.



PLAN VIEW

SLIDE GATE LATCH ASSEMBLY DETAIL

N.T.S.

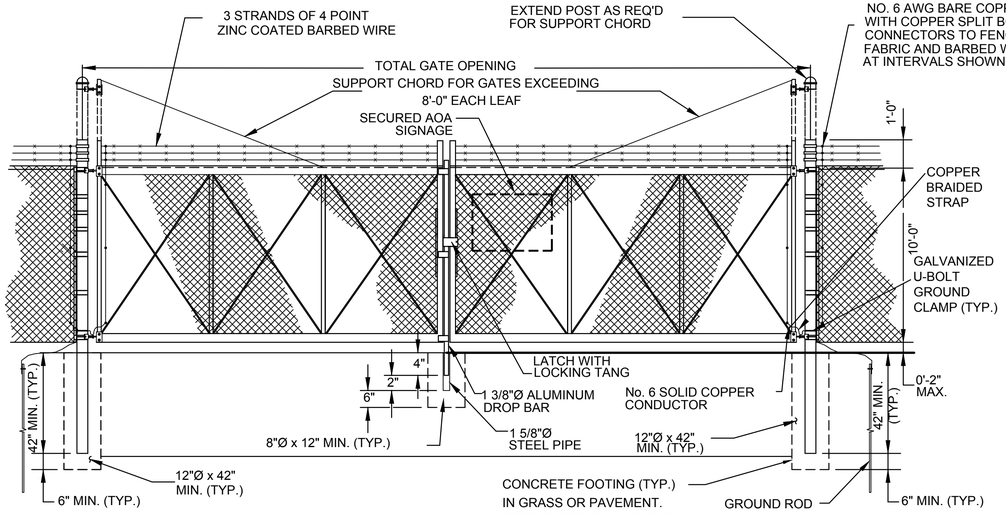


BARRIER MOUNTED FENCE NOTES

1. LINE OF GRADE OR TOP OF PAVEMENT
2. PRECAST CONCRETE BARRIER
3. FABRICATED STEEL BASEPLATE. BASEPLATE SHALL BE 8" X 8" X 1/4" THICK GALVANIZED STEEL. LEVEL BASEPLATE WITH NON-SHRINK GROUT AND THEN BOLT BASEPLATE TO BARRIER WITH FOUR (4) 3/8" Ø WEDGE ANCHORS (4" LONG). WELD ALL AROUND EACH FENCE POST, CENTERED IN BASE PLATE
4. 6' TALL LINE POSTS
5. LINE POST TIES
6. CAST LINE POST LOOP TOP
7. TOP RAIL
8. 6' (72") CHAIN-LINK FABRIC AS SPECIFIED. BOTTOM KNUCKLES/ SELVAGE 1/2" MAX. FROM TOP OF BARRIER.
9. SCREEN MESH
10. SECURE SCREEN MESH TO CHAIN LINK FABRIC (ON AIRFIELD SIDE) WITH HOG RINGS AT 18"O.C. MAX ALONG TOP AND BOTTOM EDGES AND AT ENDS OF MESH ROLLS. AT MID-HEIGHT OF MESH, SECURE TO CHAIN LINK FABRIC WITH PLASTIC LOCK TIES (ZIP TIES) AT 18"O.C. MAX. CUT OFF EXTRA LENGTH OF PLASTIC LOCK TIES AND DISPOSE OF PROPERLY.

BARRIER MOUNTED FENCE DETAIL

N.T.S.



TEMPORARY CONSTRUCTION 10' DUAL SWING GATE DETAIL

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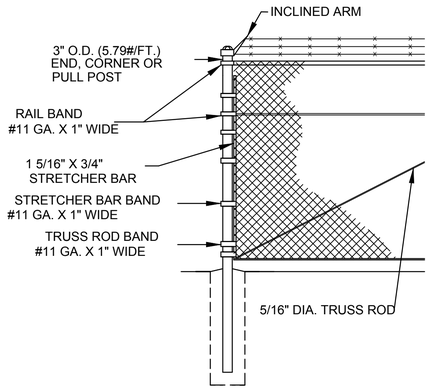
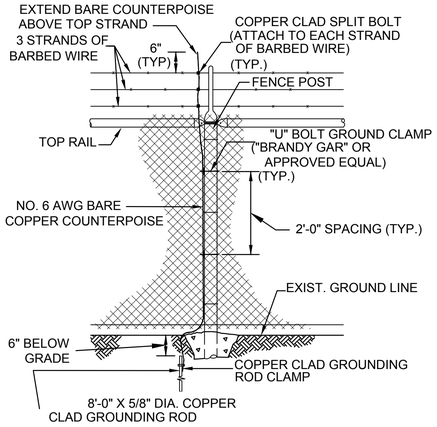


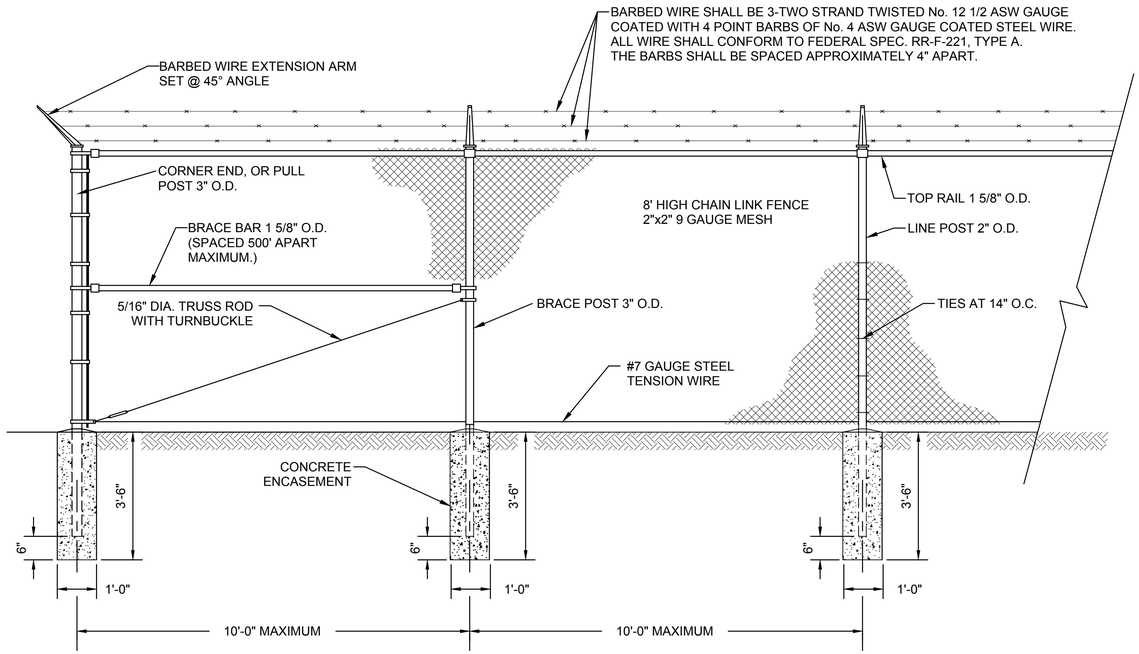
ALTERNATE TERMINAL DETAIL

N.T.S.



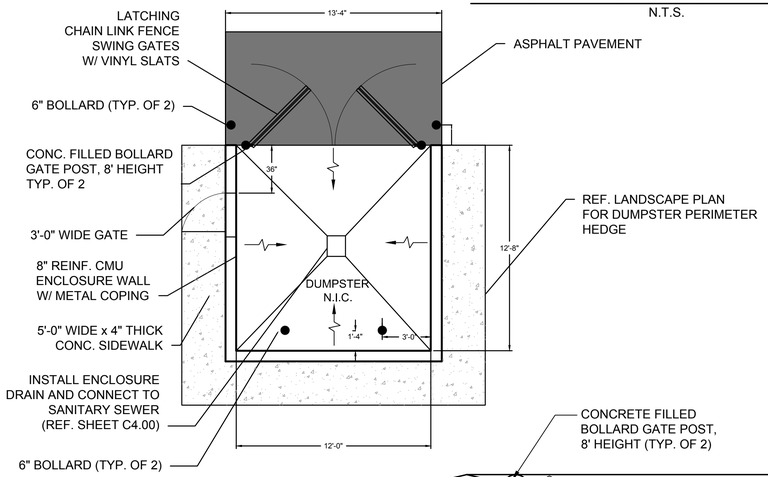
TYPICAL FENCE GROUNDING DETAIL

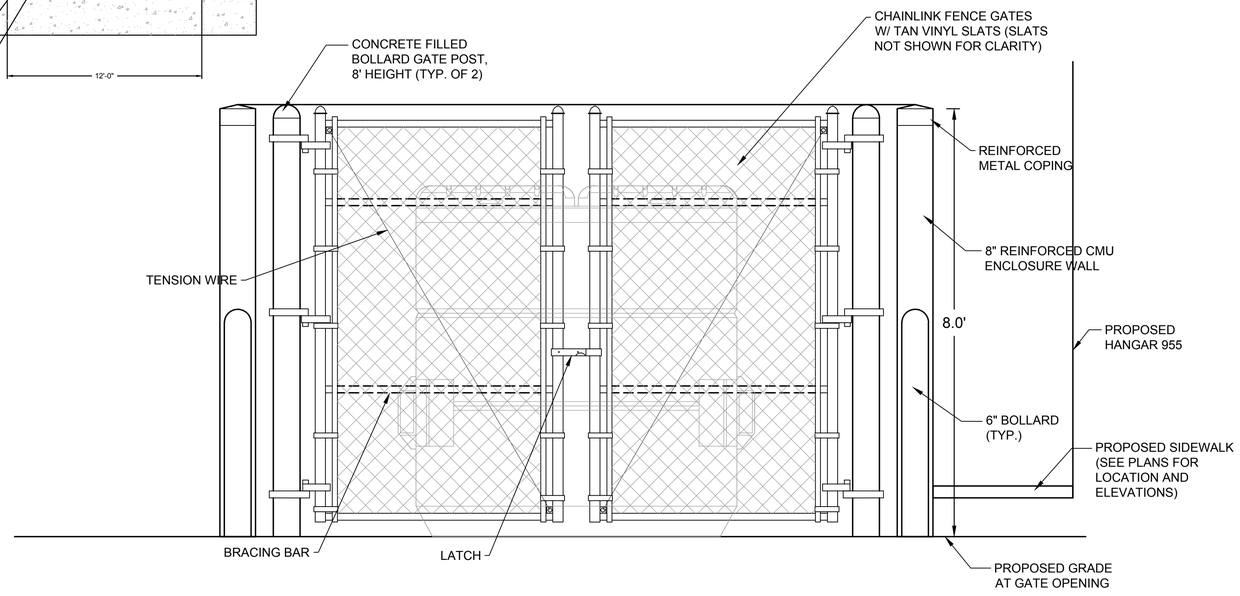
N.T.S.



CHAIN LINK FENCE DETAIL

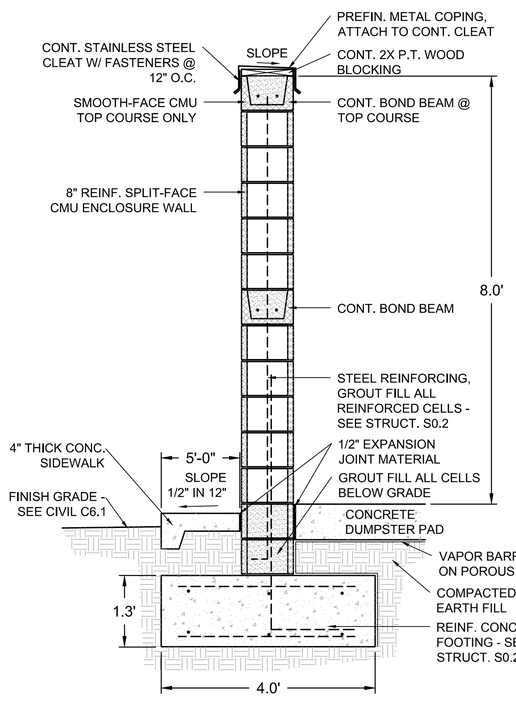
N.T.S.





DUMPSTER PAD DETAILS

N.T.S.



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Project Number:	Division :
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Date:
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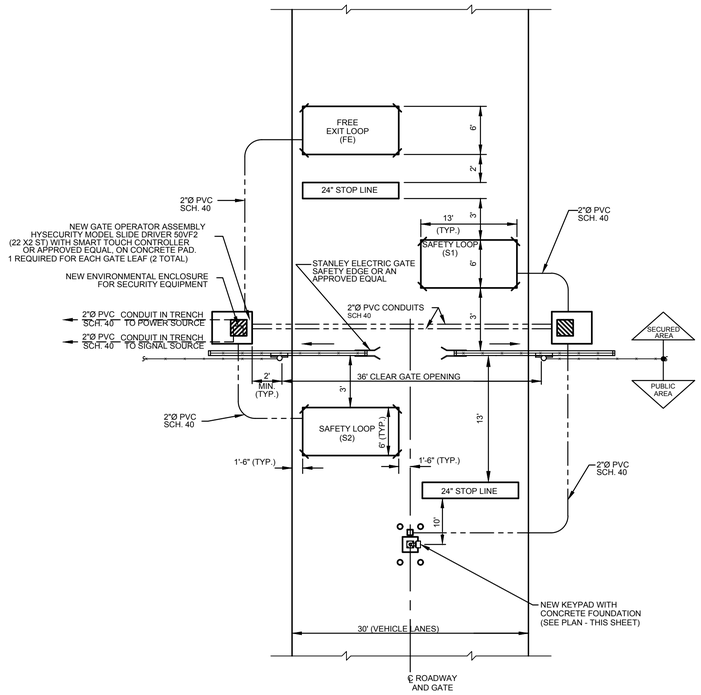
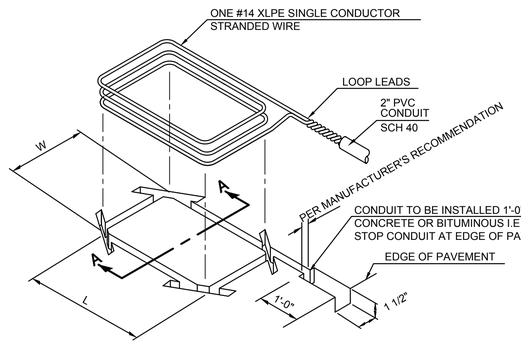
Drawing Number:
C2.03



SCHEMATIC PLAN FOR OPERATED DUAL CANTILEVER SLIDE GATE

N.T.S.



CAUTION : DO NOT FRACTURE WIRE INSULATION. LOOPS SHORTED TO GROUND WILL CAUSE DETECTOR MALFUNCTION. WHEN PLACING WIRE IN THE SLOT, DO NOT USE SCREWDRIVER OR OTHER SHARP TOOLS.

CAUTION :
DO NOT SPLICE WIRE

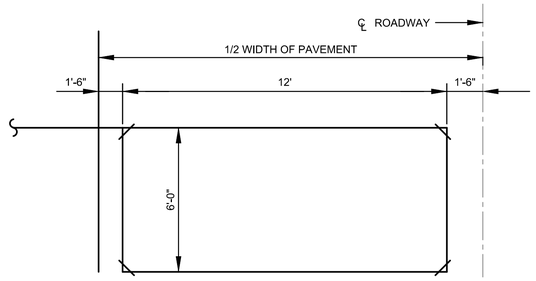
TYPICAL LAYOUT FOR LOOP

SAW SLOT 3/16" WIDE x 1-1/2" DEEP. MAKE RECTANGULAR SHAPE TO SPECIFIED LOOP DIMENSIONS PLUS SLOT FOR LEAD CONDUIT. GROUT WITH NO. 202 WEATHERBAN SEALANT. A PRODUCT OF 3M CO. OR APPROVED EQUAL.

NOTE: GROOVE SECTION MAY VARY AS PER MANUFACTURER'S REQUIREMENTS. CONTRACTOR TO SUBMIT METHOD OF LOOP INSTALLATION FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

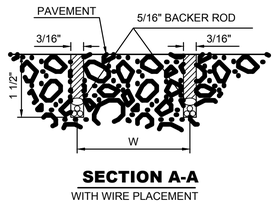
DETECTOR LOOP AND SAW SLOT-PERSPECTIVE VIEW

N.T.S.



DETECTOR LOOP DETAIL-PLAN VIEW

N.T.S.



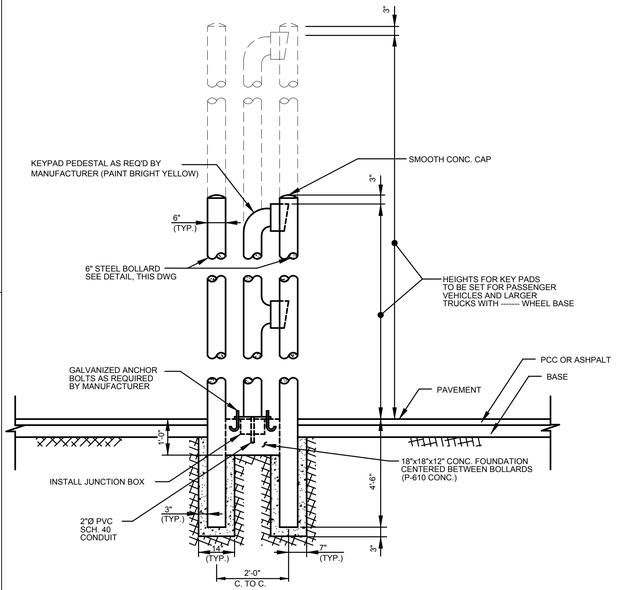
SECTION A-A

WITH WIRE PLACEMENT

DETECTOR LOOP-SECTION VIEW

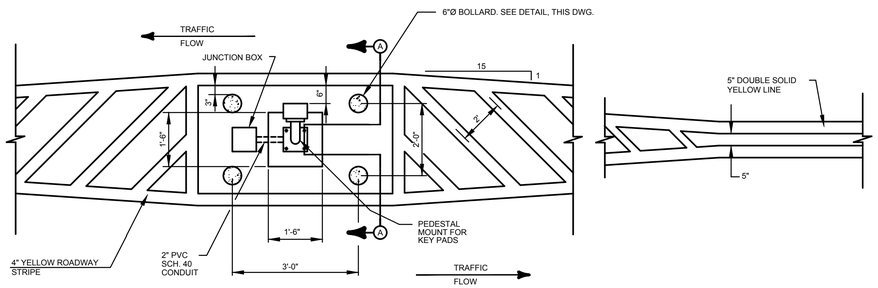
N.T.S.

NOTES :
1. LOOP LEADS ARE LIMITED TO 100 FEET.
2. LOOP LEADS MUST HAVE FOUR (4) TWIST PER FOOT.
3. LOOP AND LOOP LEADS MUST BE LOCATED AT LEAST 18" FROM ANY ELECTRICAL POWER SERVICE OR RUNS AND OR STEEL PLATFORMS.
4. LOOP LEADS MUST BE IN SEPARATE CONDUIT BETWEEN LOOP AND DETECTOR. THEY MUST NOT SHARE CONDUIT WITH OTHER WIRING OR LEADS FROM OTHER LOOPS.
5. USE #14 XLPE SINGLE CONDUCTOR STRANDED WIRE.
6. ALL WIRE TO BE CONTINUOUS WITHOUT SPLICING.



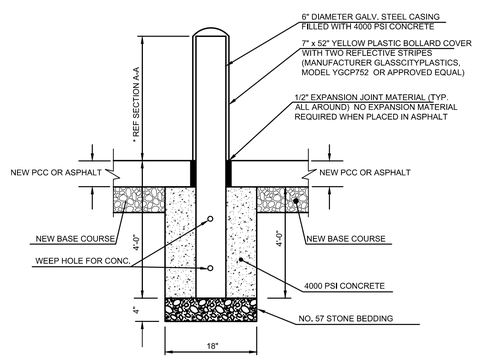
SECTION "A - A"

N.T.S.



PLAN OF KEYPAD STATION

N.T.S.



STEEL/CONCRETE BOLLARD

N.T.S.

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Key Plan:

Design Criteria Package (DCP) - Final Review
November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
SMS	SMS	NEP

Project Name:
GENERAL AVIATION TERMINAL

Drawing Name:
CIVIL SITE DETAILS

Project Number:	Division :
No. 161641	Civil

Date: November 15, 2017.

Drawing Number:
C2.04

LEGEND

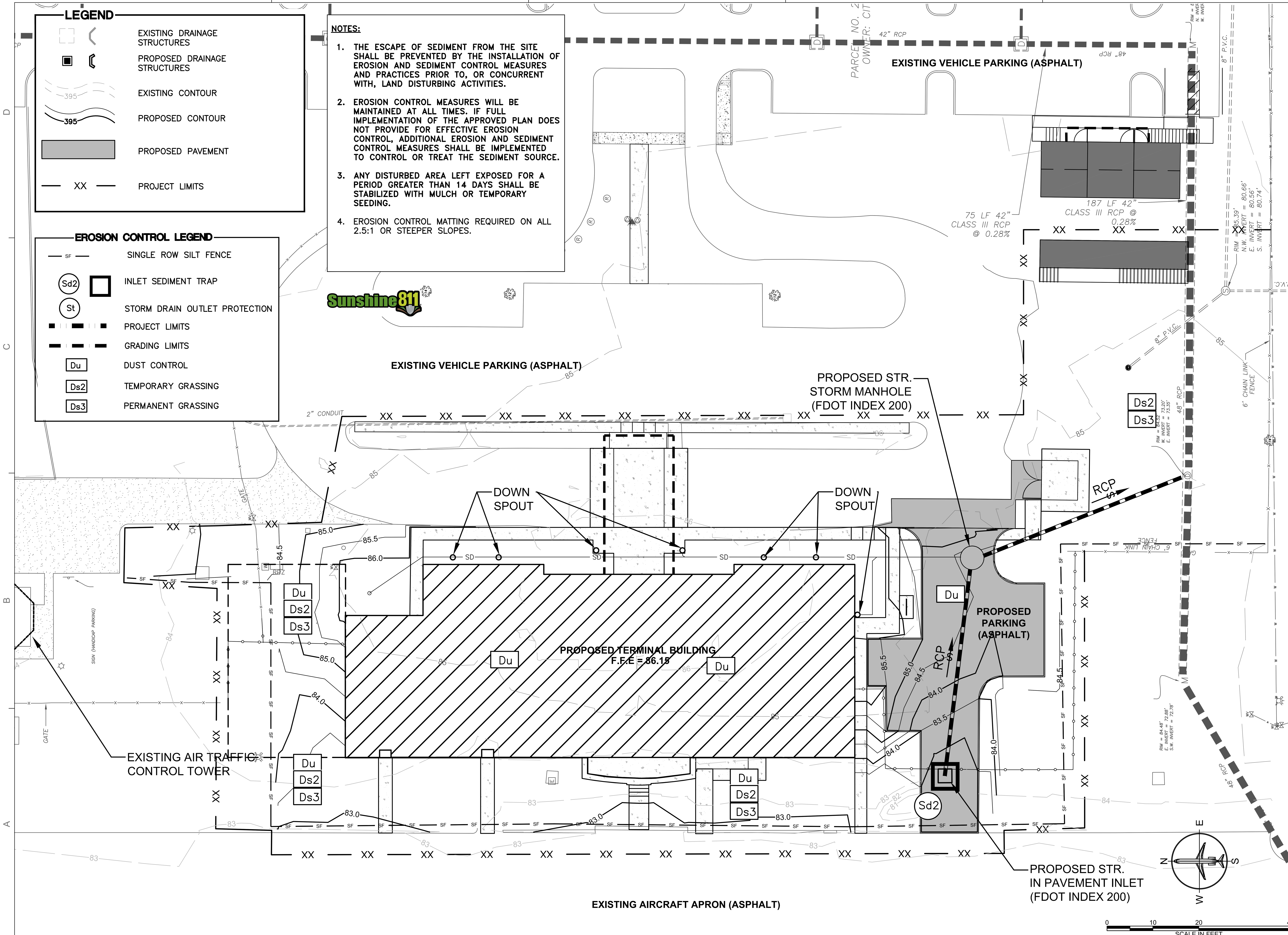
	EXISTING DRAINAGE STRUCTURES
	PROPOSED DRAINAGE STRUCTURES
395	EXISTING CONTOUR
395	PROPOSED CONTOUR
	PROPOSED PAVEMENT
— XX —	PROJECT LIMITS

EROSION CONTROL LEGEND

— SF —	SINGLE ROW SILT FENCE
Sd2	INLET SEDIMENT TRAP
St	STORM DRAIN OUTLET PROTECTION
	PROJECT LIMITS
	GRADING LIMITS
Du	DUST CONTROL
Ds2	TEMPORARY GRASSING
Ds3	PERMANENT GRASSING

NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
4. EROSION CONTROL MATTING REQUIRED ON ALL 2.5:1 OR STEEPER SLOPES.



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November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
SMS	SMS	NEP

Project Name:
GENERAL AVIATION TERMINAL

Drawing Name:
GRADING, DRAINAGE AND EROSION CONTROL PLAN

Project Number:	Division:
No. 161641	Civil

Date: November 15, 2017.

Drawing Number:
C3.00

NOTES

1. CONTRACTOR TO LOCATE ALL EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES PRIOR TO BEGINNING ANY WORK
2. CONTRACTOR MUST MAINTAIN CLEAR AND SAFE ACCESS TO ALL EXISTING FIRE HYDRANTS.

Sunshine 811

EXISTING VEHICLE PARKING (ASPHALT)

EXISTING VEHICLE PARKING (ASPHALT)

42" RCP

42" RCP

48" RCP

PARCEL NO. 2
OWNER: CITY

CONTRACTOR TO INSTALL 3" DOMESTIC WATER SERVICE WITH METER AND NEW BACKFLOW PREVENTOR

CONTRACTOR SHALL EXTEND EXISTING WATER MAIN TO PROPOSED TERMINAL BUILDING

CONTRACTOR SHALL INSTALL 1.5" IRRIGATION TAP AND SLEEVE FROM EXISTING WATER MAIN, INSTALL TIMER

CONTRACTOR SHALL CONNECT PROPOSED TERMINAL BUILDING TO EXISTING ELECTRICAL SERVICE AND SITE LIGHTING TO NEW TERMINAL PANELS

CONTRACTOR SHALL CONNECT TO EXISTING SANITARY SEWER MANHOLE

PROPOSED 8" PVC SANITARY SEWER PIPE (TYP.)

CONNECT DUMPSTER PAD TO PROPOSED 8" SANITARY SEWER

75 LF 42" CLASS III RCP @ 0.28%

187 LF 42" CLASS III RCP @ 0.28%

RIM = 85.39'
N.W. INVERT = 80.66'
E. INVERT = 80.56'
S. INVERT = 80.74'

8" P.V.C.

6' CHAIN LINK FENCE

2" CONDUIT

EXIST VALVE TO REMAIN

DOWN SPOUT

DOWN SPOUT

CLEANOUT (TYP.)

GREASE TRAP BELOW GRADE

PROPOSED PARKING (ASPHALT)

PROPOSED TERMINAL BUILDING

EXISTING BACK FLOW PREVENTER (TO REMAIN)

EXISTING AIR TRAFFIC CONTROL TOWER

CAN WASH AREA REFER TO PLUMBING PLANS

EXISTING HIGH MAST LIGHT (TO REMAIN)

EXISTING AIRCRAFT APRON (ASPHALT)

RIM = 84.42'
W. INVERT = 72.80'
E. INVERT = 73.55'
48" RCP

RIM = 84.48'
E. INVERT = 72.68'
S.W. INVERT = 72.78'
18" RCP

SCALE IN FEET: 0, 10, 20, 40

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GENERAL AVIATION TERMINAL

Drawing Name:

UTILITY PLAN

Project Number:	Division :
No. 161641	Civil

Date: November 15, 2017.

Drawing Number:

C4.00

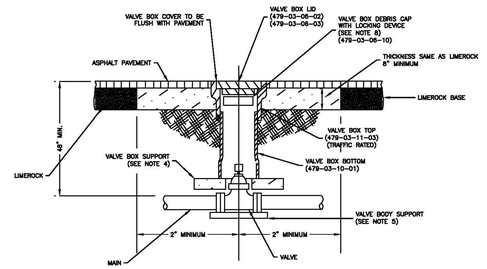
THRUST RESTRAINT TABLE FOR DIP HORIZONTAL FITTINGS					
NOMINAL PIPE DIAMETER	TEE, 90 BEND	45 BEND	22.5 BEND	11.25 BEND	PLUG
4–6	40'	20'	20'	20'	80'
8	60'	40'	20'	20'	100'
12	80'	40'	20'	20'	140'
16	120'	60'	40'	20'	180'
18	140'	80'	40'	20'	220'
24–30	160'	80'	40'	20'	300'
36	180'	80'	40'	20'	360'

NOTES

1. MINIMUM RESTRAINED LENGTH SHALL BE ALWAYS 20 FEET.
2. IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

CITY OF OCALA WATER RESOURCES (352) 351-6772 | CITY OF OCALA STANDARD DETAIL | **RESTRAINED JOINT SYSTEM** | SECTION 478-3.1 | **C** | Sht 1 of 1

REVISION DATE: 2/23/17

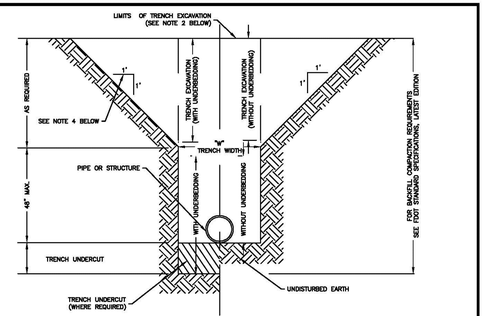


NOTES

1. WHERE ONE VALVE BOX EXTENSION IS REQUIRED USE STANDARD VALVE BOX EXTENSION 479-03-11-02.
2. WHERE MORE THAN ONE VALVE BOX EXTENSIONS ARE REQUIRED USE 6" D.I.P. CUT TO PROPER LENGTH SO VALVE BOX BOTTOM IS ONE CONTINUOUS SECTION.
3. VALVE BOX LID TO BE FURNISHED WITH THE WORD "WATER", FOR WATER MAIN INSTALLATION, "SEWER" FOR FORCE MAIN INSTALLATION, "REUSE" FOR REUSE MAIN INSTALLATION, OR "FIRE" FOR DEDICATED FIRE MAIN INSTALLATION.
4. FOR ALL VALVES USE FOUR (4) OR FIVE (5) SOLID COMMON BRICKS LAID FLAT.
5. 4"x 8" x16" SOLID PRECAST CONCRETE BLOCK TO BE INSTALLED UNDERNEATH VALVE BODY FOR SUPPORT
6. FLOWABLE FILL OR CONCRETE CAN BE USED IN LIEU OF LIMEROCK IF APPROVED BY THE WATER AND SEWER ENGINEER.
7. FOR ALL VALVE BOXES INSTALLED IN PAVEMENT USE NON-POP LID (479-03-06-03).
8. FOR ALL NEW VALVE INSTALLATIONS WHERE VALVE IS INSTALLED AT CONNECTION POINT TO AN EXISTING CITY WATER MAIN, INSTALL VALVE BOX DEBRIS CAP WITH LOCKING DEVICE IN VALVE BOX UNTIL WATER MAIN IS CLEARED.
9. FOR PVC & HDPE WATER MAINS, TERMINATE LOCATE WIRE INSIDE VALVE BOX, SEE DETAIL 478-7.1A.

CITY OF OCALA WATER RESOURCES (352) 351-6772 | CITY OF OCALA STANDARD DETAIL | **VALVE BOX INSTALLATION** | TRAFFIC AREA IN PAVEMENT | SECTION 478-4.1 | **A** | Sht 1 of 1

REVISION DATE: 2/23/17



PIPE INSTALLATION

PIPE DIAMETER	2"–7"	8"–16"	17" – 24"	OVER 24"
TRENCH WIDTH "W"	36"	48"	54"	60"

STRUCTURE INSTALLATION

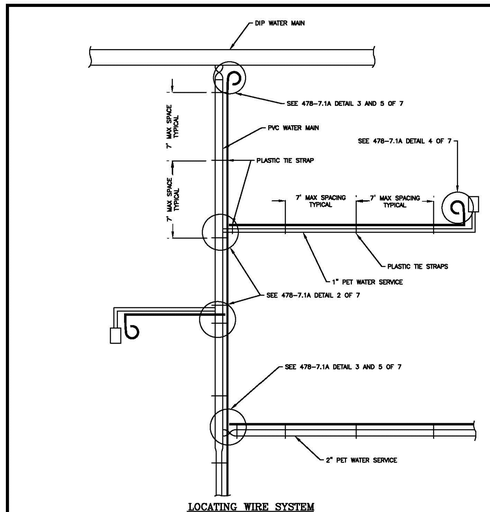
DEPTH OF TRENCH	0' – 6'	6' – 12'	12' – 18'	OVER 18'
STRUCTURE WIDTH "SW"	VARIES	VARIES	VARIES	VARIES
TRENCH WIDTH "W"	SW + 36"	SW + 48"	SW + 54"	SW + 60"

NOTES

1. IN THE EVENT UNSTABLE OR UNSUITABLE BEDDING MATERIAL IS ENCOUNTERED AT OR BELOW THE LIMITS OF EXCAVATION NOTED ON THE DRAWINGS, SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH FILL APPROVED BY THE WATER AND SEWER ENGINEER.
2. UPPER LIMITS OF TRENCH EXCAVATION AND FOR CALCULATION OF UNSUITABLE MATERIAL REFERS TO ONE OF THE FOLLOWING CONDITIONS (REFER TO DETAIL 478-5.2):
   A. BOTTOM OF LIMEROCK BASE WHERE UNDER A PAVED ROADWAY EXCEPT WHERE A TWO FOOT UNDERCUT BELOW THE ROADWAY BASE IS REQUIRED. SEE "B" BELOW.
   B. BOTTOM OF TWO FOOT UNDERCUT BELOW THE ROADWAY SUBGRADE WHERE CALLED FOR IN THE CONTRACT DOCUMENTS.
   C. FINISH GRADE WHERE NOT UNDER A PAVED ROADWAY.
3. TRENCH WIDTH FOR CALCULATION OF UNSUITABLE MATERIAL IS THE TRENCH WIDTH, THE WIDTH "W" REQUIRED TO INSTALL THE PIPE, PLUS THE TWO TRIANGULAR AREAS BEGINNING FOUR FEET HIGHER THAN THE TRENCH BOTTOM, EXTENDING AWAY FROM THE TRENCH ON A ONE TO ONE SLOPE ON EITHER SIDE OF THE TRENCH TO THE UPPER LIMITS OF THE UNSUITABLE MATERIAL. UNSUITABLE MATERIAL TO BE REMOVED AS PART OF ROADWAY EXCAVATION WILL NOT BE INCLUDED IN THIS CALCULATION.
4. TYPICAL TRENCH SLOPES ARE 1:1 EXCEPT WHERE SOIL CONDITIONS WARRANT DEVIATIONS BUT SHALL BE SUBJECT TO THE DISCRETION OF THE WATER & SEWER ENGINEER OR HIS REPRESENTATIVE. WHERE DEVIATION IS WARRANTED SLOPES ARE IN ACCORDANCE WITH OSHA REQUIREMENTS. FOR PURPOSES OF CALCULATING UNSUITABLE MATERIAL TRENCH SLOPES ARE ASSUMED TO BE 1:1 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. IN DEEP CUTS TRENCH SHORING OR TRENCH BOX SHALL BE USED AS DIRECTED BY THE WATER & SEWER ENGINEER.

CITY OF OCALA WATER RESOURCES (352) 351-6772 | CITY OF OCALA STANDARD DETAIL | **TRENCH EXCAVATION** | UNSUITABLE MATERIAL | SECTION 478-5.1 | **A** | Sht 1 of 1

REVISION DATE: 2/24/17



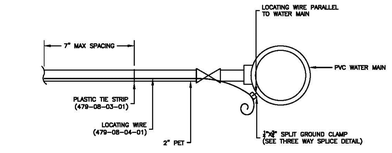
LOCATING WIRE SYSTEM

NOTES

1. LOCATING WIRE TO BE INSTALLED IN BOTH SIX AND TWELVE O'CLOCK POSITIONS.
2. SECURE LOCATING WIRES TO WATER MAIN BY USE OF PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF SEVEN FEET (7').
3. THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO PLACEMENT OF ASPHALT.
4. AFTER WIRE INSTALLATION THROUGH GROUND CLAMPS WRAP ALL BARE WIRE WITH ELECTRICAL TAPE.
5. TERMINATE LOCATE WIRE AT ALL VALVE BOXES AND METER BOXES.
6. INSTALL GROUND ROD TERMINATION EVERY 500 FT. SEE DETAIL 478-7.1A 7 OF 7.

CITY OF OCALA WATER RESOURCES (352) 351-6772 | CITY OF OCALA STANDARD DETAIL | **LOCATING WIRE** | SECTION 478-7.1 | **A** | Sht 2 of 7

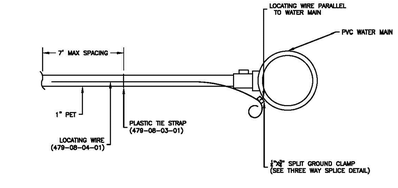
REVISION DATE: 2/24/17



2" CONNECTION TO PVC WATER MAIN

MULTI FAMILY WATER SERVICE

(SEE STANDARD 488-2.1G & H)



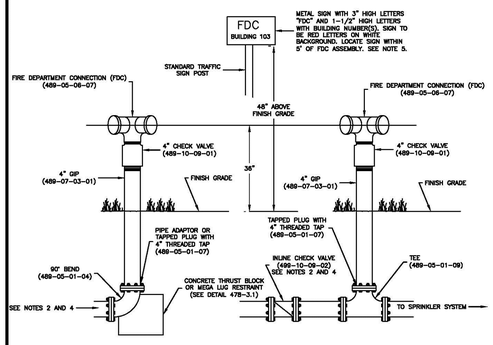
1" CONNECTION TO PVC WATER MAIN

SINGLE FAMILY WATER SERVICE

(SEE STANDARD DETAIL 488-2.1C & D)

CITY OF OCALA WATER RESOURCES (352) 351-6772 | CITY OF OCALA STANDARD DETAIL | **LOCATING WIRE** | CONNECTION TO PVC MAIN | SECTION 478-7.1 | **A** | Sht 3 of 7

REVISION DATE: 2/24/17



REMOTE FDC CONNECTION

INLINE FDC CONNECTION

NOTES

1. ALL ABOVE-GROUND PARTS OF THE FDC ASSEMBLY, INCLUDING PIPING, SHALL BE PAINTED RED. PAINT SHALL BE POLYURETHANE, "SAFETY RED" OR EQUIVALENT.
2. PROVIDE AN INLINE CHECK VALVE ONLY WHERE FDC CONNECTIONS ARE INSTALLED AND FIRE HYDRANTS ARE CONNECTED UPSTREAM.
3. FDC MAY BE MOUNTED ON DOUBLE CHECK DETECTOR ASSEMBLIES (DCDA). SEE DETAIL WSCM 488-1.3G.
4. WHERE CHECK VALVES ARE INSTALLED BELOW GRADE PROVIDE A PRECAST UTILITY BOX SIZED TO ADEQUATELY MAINTAIN THE CHECK VALVE ASSEMBLY. UTILITY BOX SHALL BE AS SPECIFIED IN 489-03-99-10.
5. PROVIDE A SIGN INDICATING WHAT BUILDING(S) OR UNIT(S) THE FDC CONNECTION SUPPLIES WATER TO.
6. PROVIDE UNOBSTRUCTED CLEAR ZONE AROUND FDC CONNECTION OF 4' TO THE REAR AND 7-1/2' TO SIDES AND FRONT. NO BUILDINGS, FENCES, TREES OR LARGE SHRUBBERY SHALL BE LOCATED IN CLEAR ZONE.

CITY OF OCALA WATER RESOURCES (352) 351-6772 | CITY OF OCALA STANDARD DETAIL | **FIRE DEPARTMENT CONNECTION 3" OR GREATER** | SECTION 488-1.3 | **H** | Sht 1 of 1

REVISION DATE: 2/28/17

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Key Plan:

Design Criteria Package (DCP) - Final Review

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
SMS	SMS	NEP

Project Name:

GENERAL AVIATION TERMINAL

Drawing Name:

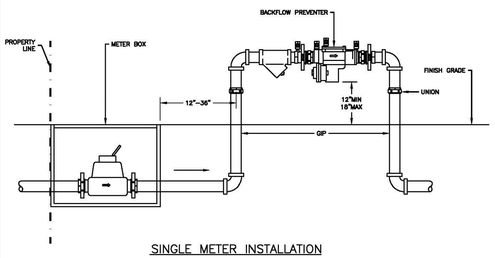
UTILITY DETAILS

Project Number:	Division :
No. 161641	Civil

Date: November 15, 2017.

Drawing Number:

C4.01



SINGLE METER INSTALLATION

NOTES

1. INSULATE ALL ABOVE GROUND PIPING FOR FREEZE PROTECTION.
2. INSTALL BOLLARDS FOR PROTECTION IN TRAFFIC AREAS.

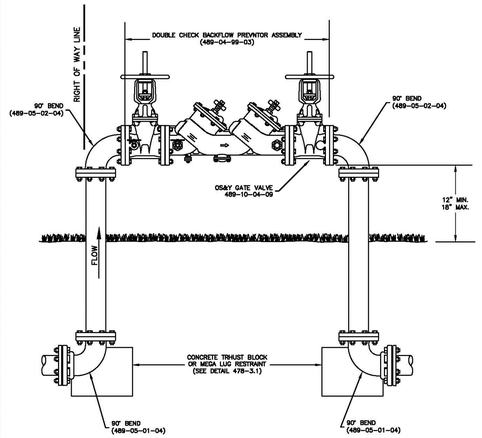
CITY OF OCALA WATER RESOURCES (352) 351-6772 | SEWER

CITY OF OCALA STANDARD DETAIL

COMMERCIAL BACKFLOW PREVENTER INSTALLATION (LESS THAN 3")

SECTION 488-1.4 | **D** | SHT 1 OF 1

REVISION DATE: 3/1/17



NOTES

1. UNLESS OTHERWISE NOTED, ALL EXPOSED FITTINGS SHALL BE FLANGED AND ALL BURIED FITTINGS SHALL BE MECHANICAL JOINT.

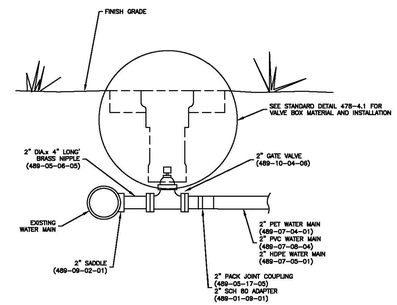
CITY OF OCALA WATER RESOURCES (352) 351-6772 | SEWER

CITY OF OCALA STANDARD DETAIL

BACKFLOW PREVENTER 3" AND ABOVE

SECTION 488-1.4 | **F** | SHT 1 OF 1

REVISION DATE: 03/01/17



NOTES

1. PRESSURE TEST ALL SADDLES AND VALVES PRIOR TO TAPPING.
2. PRESSURE TEST AT 150 PSI, 10-15 MINUTES

CITY OF OCALA WATER RESOURCES (352) 351-6772 | SEWER

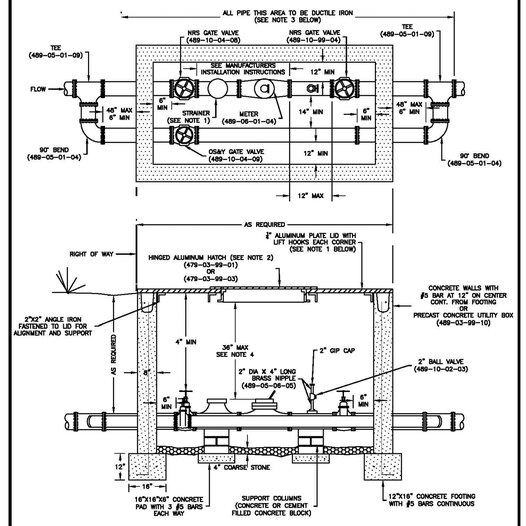
CITY OF OCALA STANDARD DETAIL

WATER MAIN TAP

2" PVC/PET TO EXISTING MAIN

SECTION 488-3.2 | **A** | SHT 1 OF 1

REVISION DATE: 03/03/17



NOTES

1. METERS SHALL BE FURNISHED WITH STRAINERS APPROVED BY THE METER MANUFACTURER AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
2. ALUMINUM HATCH SHALL BE 30" X 30" FOR METERS 3" AND 4". HATCH FOR METERS 6" AND ABOVE SHALL BE 42" X 42".
3. UNLESS OTHERWISE NOTED, ALL EXPOSED FITTINGS SHALL BE FLANGED AND ALL BURIED FITTINGS SHALL BE MECHANICAL JOINT.
4. METER INSTALLATION GREATER THAN 36" BELOW TOP OF LID REQUIRES INSTALLATION OF A REMOTE READING DEVICE (488-08-99-10) AS SPECIFIED IN 488-8.1A.

CITY OF OCALA WATER RESOURCES (352) 351-6772 | SEWER

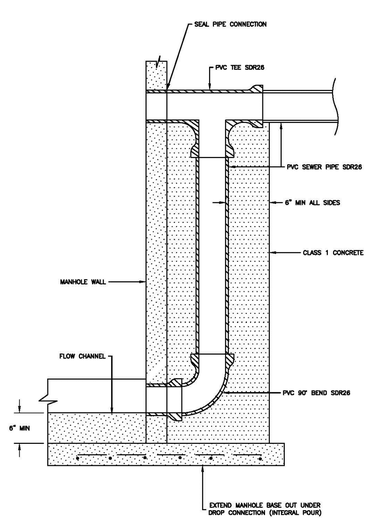
CITY OF OCALA STANDARD DETAIL

COMMERCIAL WATER SERVICE

3" AND ABOVE NON TRAFFIC LID

SECTION 488-2.1 | **J** | SHT 1 OF 1

REVISION DATE: 3/2/17



CITY OF OCALA WATER RESOURCES (352) 351-6772 | SEWER

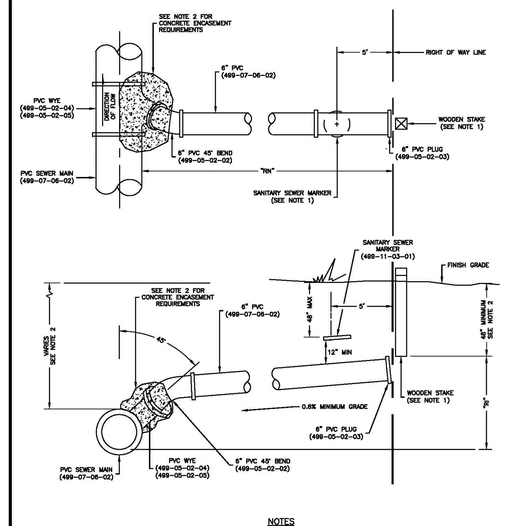
CITY OF OCALA STANDARD DETAIL

SANITARY SEWER

MANHOLE DROP CONNECTION

SECTION 488-1.2 | **C** | SHT 1 OF 1

REVISION DATE: 3/7/17



NOTES

1. SEWER SERVICE TO BE REFERENCED AS INDICATED IN SECTION 488-2.1C
2. FOR ANY SEWER SERVICES WHERE THE PIPE SLOPE EQUALS OR EXCEEDS A 1:5 (16/8in) OR 20% SLOPE, ENCASE SEWER WYE AND BEND IN CONCRETE. CONCRETE ENCASEMENT TO BE 2 CUBIC FEET MINIMUM WHERE REQUIRED.

CITY OF OCALA WATER RESOURCES (352) 351-6772 | SEWER

CITY OF OCALA STANDARD DETAIL

SANITARY SEWER SERVICE

SINGLE SEWER SERVICE

SECTION 488-2.1 | **A** | SHT 1 OF 1

REVISION DATE: 3/7/17

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UTILITY DETAILS

Project Number:	Division :
No. 161641	Civil

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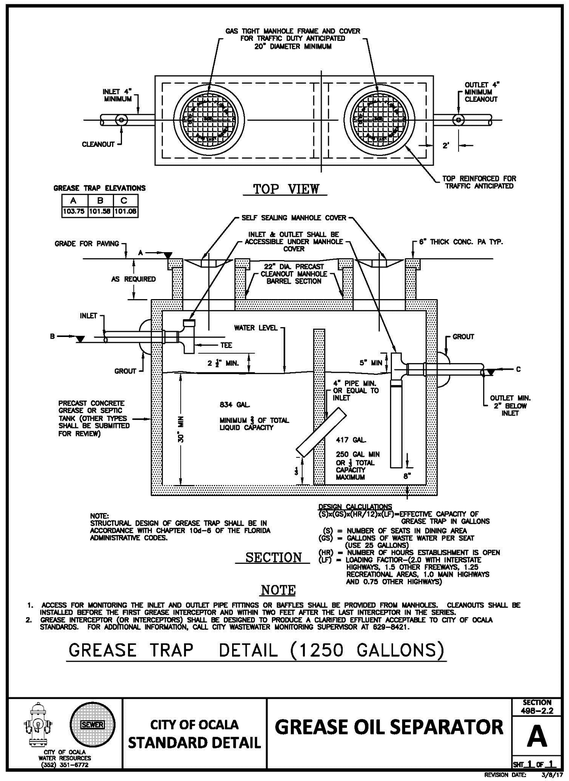
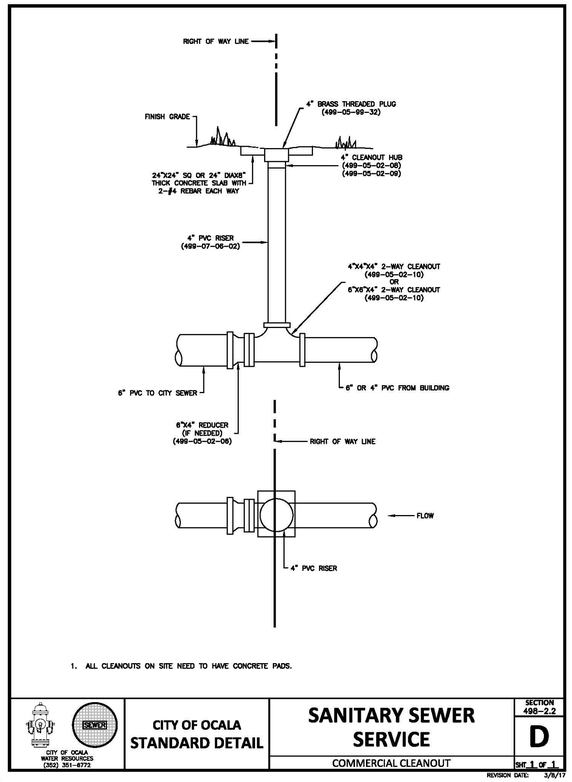
C4.02





NOTE:
1. THE GREASE OIL SEPARATOR SHOWN IS FOR REFERENCE ONLY. THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE COORDINATION, DESIGN AND SIZING OF THE GREASE OIL SEPARATOR.

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PHONE 813-889-3892 • FAX 813-889-3893

Key Plan:

Design Criteria Package (DCP) - Final Review
November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
SMS	SMS	NEP

Project Name:
GENERAL AVIATION TERMINAL

Drawing Name:
UTILITY DETAILS

Project Number:	Division :
No. 161641	Civil

Date: November 15, 2017.

Drawing Number:
C4.03

LEGEND

- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT PAVEMENT

NOTES

1. CONTRACTOR SHALL PROVIDE PEDESTRIAN CROSSWALK SIGNAGE FOR EXISTING AND PROPOSED CROSSWALKS AS RECOMMENDED BY THE ENGINEER OF RECORD.

EXISTING VEHICLE PARKING (ASPHALT)

EXISTING VEHICLE PARKING (ASPHALT)

MARK 10' CROSSWALK (FDOT DETAIL 17346)

MARK HANDICAP PARKING (FDOT DETAIL 17346)

CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO THE EXISTING TERMINAL VEHICLE TRAFFIC AT ALL TIME DURING THE DURATION OF CONSTRUCTION

NEW HC PARKING SIGN TO BE PROVIDED AT EACH NEW HC SPACE

CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO THE EXISTING AIR TRAFFIC CONTROL TOWER AT ALL TIME DURING THE DURATION OF CONSTRUCTION

MARK HANDICAP SYMBOL (FDOT DETAIL 17346)

REMOVE EXISTING HC SIGN AND PROVIDE NEW HC PARKING SIGN AT EACH EXIST. HC SPACE

MARK 5' CROSSWALK (FDOT DETAIL 17346)

DO NOT ENTER SIGNS

PROVIDE PEDESTRIAN CROSSING SIGN AND POST(FDOT DETAIL 17346)(W11-2)

PROVIDE PEDESTRIAN CROSSING SIGN AND POST(FDOT DETAIL 17346)(W11-2)

ONE WAY SIGN

STOP SIGN

MARK STOP BAR

MARK RIGHT TURN ONLY

MARK PARKING STRIPE (FDOT DETAIL 17346)

MARK TRAFFIC ARROW (FDOT DETAIL 17346) (TYP.)

SECURED AOA SIGNAGE

PROPOSED TERMINAL BUILDING

PROPOSED PARKING (ASPHALT)

EXISTING AIR TRAFFIC CONTROL TOWER

ATCT SIGN/COORD. AND STOP SIGN

MARK STOP BAR

EXISTING AIRCRAFT APRON (ASPHALT)

RPZ

SIGN (HANDICAP PARKING)

GATE

GATE

E N S W

0 10 20 40
SCALE IN FEET

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Key Plan:

Design Criteria Package (DCP) - Final Review
November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
SMS	SMS	NEP

Project Name:
GENERAL AVIATION TERMINAL

Drawing Name:
MARKING AND TRAFFIC PLAN

Project Number:	Division :
No. 161641	Civil

Date: November 15, 2017.

Drawing Number:
C5.00

ABB	DESCRIPTION
A	
&	AND
<	ANGLE
@	AT
ACP	ACOUSTIC CEILING PANEL
ADJ	ADJACENT, ADJUSTABLE
AED	AUTOMATED EXTERNAL DEFIBRILLATOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT OR ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING MATERIAL
ATTEN	ATTENUATE, ATTENUATION
AVG	AVERAGE
B	
B/	BOTTOM OF
B/C	BOTTOM OF CURB
BC	BASE CABINET
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BSMT	BASEMENT
C	
[	CHANNEL
CAB	CABINET
CC	CENTER TO CENTER
CG	CORNER GUARD
CJ	CORNER JOINT
CL	CENTER LINE
CLG	CEILING
CLG HT	CEILING HEIGHT
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CORR	CORRIDOR
CP	COPIER
CT	CERAMIC TILE
CY	CUBIC YARD
D	
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DW	DISHWASHER
DWG	DRAWING
E	
E	EAST
EA	EACH
EB	EDGE BANDING
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSE(URE)
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP BLT	EXPANSION BOLT
EXT	EXTERIOR
F	
<	FABRIC
F/F	FACE TO FACE
FAX	FACSIMILE
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FL	FLOOR
FL CO	FLOOR CLEANOUT
FP	FIRE PROTECTION
FPRF	FIREPROOF(ING)
FR	FIRE RATED OR FRAME
FT	FOOT/FEET
G	

ABB	DESCRIPTION
GA	GAUGE
GL	GLASS OR GLAZING
GRD	GROUND
GWB	GYPSUM WALL BOARD
H	
HB	HOSE BIBB
HC	HANDICAP(PED)
HDW	HARDWARE
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HTR	HEATER
I	
ID	INSIDE DIAMETER
IN	INCH(ES)
INT	INTERIOR
J	
JB	JAMB
JST	JOIST
JT	JOINT
L	
LAM	LAMINATE
LAN	LOCAL AREA NETWORK CONNECTION
LAV	LAVATORY
LB	POUND
LF	LINEAL FOOT
LP	LOW POINT
LTL	LINTEL
M	
m	METERS
MAS	MASONRY
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE
MH	MANHOLE
MICRO	MICROWAVE
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETERS
MO	MASONRY OPENING
MTD	MOUNTED EL
MTL	METAL
N	
N	NORTH
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFICE
OPNG	OPENING
OPP	OPPOSITE
P	
PART	PARTITION
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
POS	POINT OF SALE
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATED
PROP	PROPERTY
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	POINT
PTD	PAINTED
Q	
QTY	QUANTITY
R	
R	RISER OR RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFER / REFERENCE
REG	REGISTER
REINF	REINFORCING

ABB	DESCRIPTION
REQ'D	REQUIRED
RFG	REFRIGERATOR
RG	RANGE
RM	ROOM
RO	ROUGH OPENING
RTS	RUBBER TRANSITION STRIP
RWC	RAIN WATER CONDUCTOR
S	
S	SOUTH
SAN	SANITARY
SCHD	SCHEDULE
SEC	SECTION
SF	SQUARE FOOT
SIM	SIMILAR
SPKLR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FOOT
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
SUSP	SUSPEND, SUSPENDED, OR SUSPENSION
SYS	SYSTEM
T	
"T"	TEE (BAR OR W)
T	TREAD
T/	TOP OF
T/C	TOP OF CURB
TB	TACKBOARD
TC	TERRA COTTA
TEL	TELEPHONE
TEMP	TEMPERED OR TEMPERATURE
TERM	TERMINATE / TERMINAL
THRESH	THRESHOLD
TLT	TOILET
TV	TELEVISION
TYP	TYPICAL
U	
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UMCT	UNGLAZED MOSAIC CERAMIC TILE
UNO	UNLESS NOTED OTHERWISE
V	
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	
W	WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WIN	WINDOW
WP	WATERPROOF(ING)
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE REINFORCEMENT

SYMBOLS

VIEW TITLE # SCALE:	VIEW CALLOUT
INTERIOR / EXTERIOR	ELEVATIONS
	BUILDING SECTION
	WALL SECTION
	INTERIOR SECTION
	DETAIL SECTION
	CALLOUT PLAN, SECTION OR DETAIL
#	COLUMN GRID LABEL - NEW
#	COLUMN GRID LABEL - EXISTING
	REVISION
ROOM NAME ###	ROOM TAG
#X#.#	PARTITION TYPE
	DOOR TAG - REF. SCHEDULE
##.##	KEYNOTE
#	WINDOW TYPE
#	TOILET ROOM ACCESSORIES
	ELEVATION MARK
	DENOTES ABOVE, BELOW, OR BEHIND
	ACCESSIBLE TOILET STALL
	RECYCLING COLLECTION AREA
TRUE NORTH N	NORTH ARROW
℄	CENTER LINE
	FLOOR TRANSITION
SLOPE	ROOF SLOPE ARROW
	LEVEL LINE
	SPOT ELEVATION

SYMBOLS

FD -1	FLOOR DRAIN
RD	ROOF DRAIN
	SCUPPER
OFD RD	ROOF/OVERFLOW DRAIN

SECTIONS/ SECTIONAL DETAILS

- CONCRETE BLOCK
- CAST-IN-PLACE-CONCRETE
- STRUCTURAL/MISCELLANEOUS STEEL
- EARTH
- GRAVEL/ENGINEERED FILL
- STONE, OR NATURAL BUILDING STONE
- PLASTER OR GYPSUM BOARD, OR EXTERIOR SHEATHING
- BATT INSULATION
- ROOF, TAPERED, CAVITY OR RIGID INSULATION
- FINISHED WOOD TRIM
- PLYWOOD
- CAVITY DRAINAGE MATERIAL
- TECTUM PANEL

PLANS/ PLAN FIRE RATED WALLS

- SMOKE
- 1/2 HOUR
- 1 HOUR
- 2 HOUR
- 3 HOUR
- 4 HOUR

PLANS / PLAN DETAIL GRAPHICS

- BRICK WALLS
- CONCRETE BLOCK WALLS
- CAST-IN-PLACE-CONCRETE WALLS
- STUD FRAMED WALLS
- CONCRETE SLABS AND/OR CONCRETE SIDEWALKS
- METAL ROOF
- ROOF WALKWAY PROTECTION BOARDS
- SINGLE PLY ROOF DRAIN

DOOR DESIGNATIONS

- EXISTING DOOR AND/OR FRAME TO REMAIN - SEE DOOR SCHEDULE FOR ANY ADDITIONAL WORK
- NEW DOOR AND/OR FRAME TO BE PROVIDED - SEE DOOR SCHEDULE
- EXISTING DOOR AND/OR FRAME TO BE REMOVED - SEE DEMO PLAN/NOTES

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FLORIDA LICENSE # AA 26002484

Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

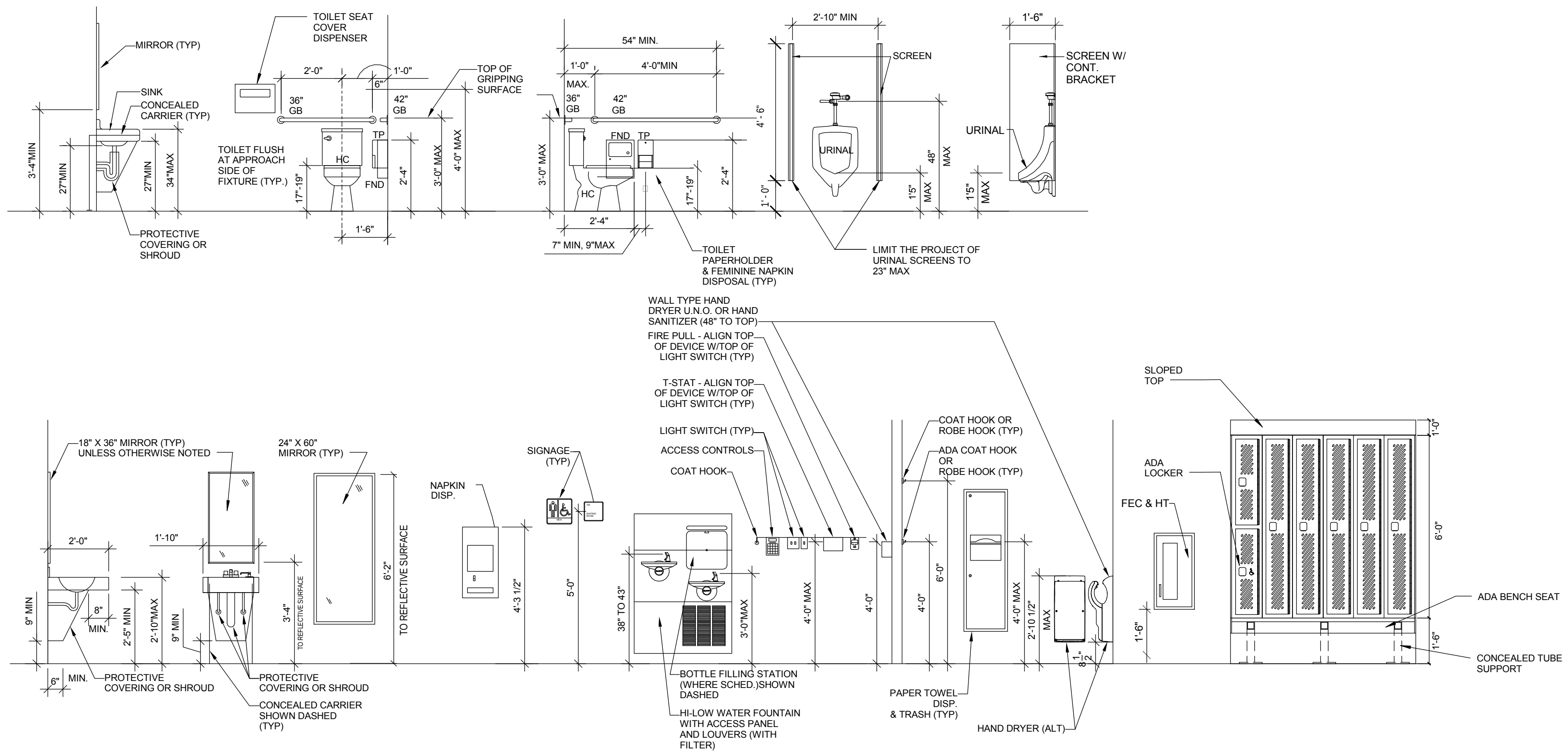
Project Name: GENERAL AVIATION TERMINAL BUILDING

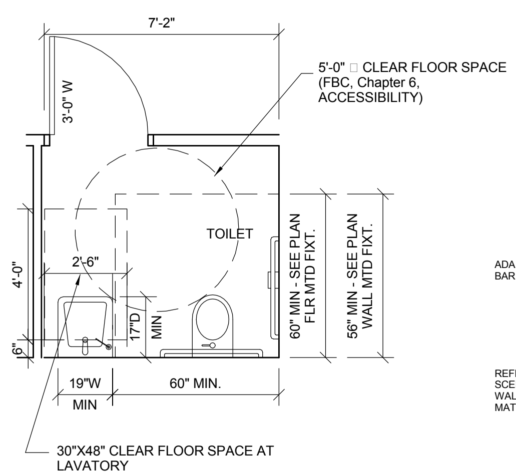
Drawing Name: GENERAL NOTES

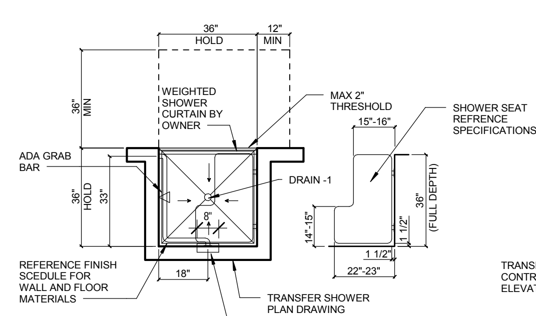
Project Number: No. 161641 — Division: Architecture

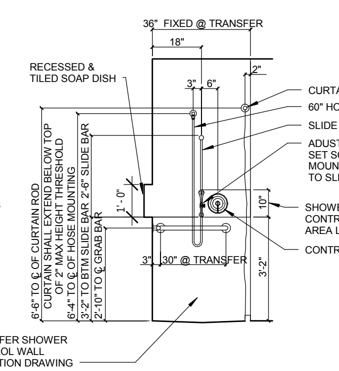
Date: November 15, 2017

Drawing Number: A-001





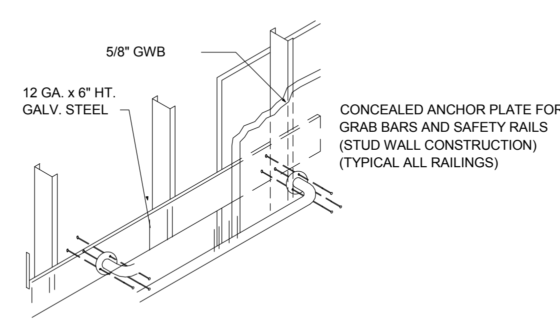




ADA SHOWER CONTROLS
SCALE: 1/2" = 1'-0"

FOR ALL TOILET/BATH ACCESSORIES AND EQUIPMENT, THE MOUNTING HEIGHTS ARE TO BE AS FOLLOWS:

1. TO COMPLY WITH THE FLORIDA BUILDING CODE & FBC ACCESSIBILITY CODE - LATEST EDITION ADOPTED.
2. MOUNT ITEMS BETWEEN 48" - 15" AFF FOR A NONE OBSTRUCTED FORWARD AND SIDE REACH TO COMPLY WITH FBC.
3. WHERE CONFLICT OCCURS WITH MOUNTING HEIGHT OR LOCATION AS REQUIRED BY FBC OR ADA REGULATIONS; CONFIRM WITH ARCHITECT PRIOR TO INSTALLATION



NO SCALE

1 ADA MOUNTING HEIGHTS
SCALE: 3/8" = 1'-0" (UNLESS NOTED OTHERWISE)

Accessory Schedule

		PUBLIC AREAS	JANITORS CLOSET	SHOWER/ DRESSING RM	PUBLIC TLT RM	SINGLE USE TLT RM	KEY	ITEM	MODEL
					●		A1	PAPER TOWEL DISPENSER (RECESSED) W/TOWEL MATE ACC. (MOUNT 42" TO DISP.)	B-3944-130 W/ B4262
					●		A2	TOILET PAPER DISPENSER JUMBO ROLL - TWIN (SURFACE MOUNTED)	B-2892
							A3	SANITARY NAPKIN VENDOR	B-37063-50
						●	A4	SANITARY NAPKIN DISPOSAL (PARTITION MOUNTED OR RECESSED AT WALL APP.)	B-354 @ PART. B-353 @ WALL
					●	●	A5	LIQUID SOAP DISPENSER 6" SPOUT (SURFACE MOUNTED)	B-8226
						●	A6	PAPER TOWEL DISP. / WASTE RECEPT. (RECESSED) W/ AUTOMATIC DISPENSER MODEL	B-39003 W/3974-50
					●	●	A7	42" GRAB BAR	B-6806
					●	●	A8	36" GRAB BAR	B-6806
				●			A9	L-SHAPED GRAB BAR	B-6861
						●	A10	MIRROR UNIT - FULL HT. (HT. IS TO BTM. OF REFL. SURFACE) REF. DRAWING	B-290/2460
					●	●	A11	MIRROR UNIT - ADA SINK (HT. IS TO BTM. OF REFL. SURFACE)	B-290/1836
					●	●	A12	HEAVY DUTY COAT HOOK WITH BUMPER ON BACK OF DOOR (4'-6" AFF)	BOOMER 15030-626
					●	●	A13	TOILET SEAT DISPENSER - SSTL. (MOUNTED @ 4'-0" A.F.F.)	B-221
				●			A14	SHOWER CURTAIN ROD - SSTL. (EXTRA HEAVY DUTY)	B-6047
				●			A15	SHOWER CURTAIN & HOOKS - SSTL.	204-1 HOOKS 204-2 CRTN.
				●			A16	TOWEL BAR	B-530 X 24
				●			A17	FOLDING SHOWER SEAT	B-5181
		NOT USED					A18	ELECTRICAL HAND DRYER (LOW VOLT) (DYSON AIRBLADE) (48" A.F.F. REF ELECTRICAL)	AB14-FT7 (WHITE)
					●		A19	COUNTERTOP MOUNTED CIRCULAR WASTE CHUTE - BELOW COUNTER	B-529
					●	●	A20	UNDER LAVITORY GUARD	TRUBRO LAVGUARD2
							A21	SEMI-RECESSED AUTOMATIC ROLL TOWEL DISPENSER W/ AC ADAPTER	B-29744
					●	●	A22	BABY CHNG. TBL. - FOLD DOWN SSTL. (48" A.F.F. TO TOP, LOC. OUT OF ADA REQ'D CLEARANCE AREA)	K-110 SSWM
			●				A23	UTILITY SHELF WITH MOP & BROOM HOLDERS	B-244 x 36
		NOT USED					A24	UNDERCOUNTER WASTE RECEPTACLE (HEAVY DUTY PULL OUT & SSTL CABINET ENCLOSURE)	HAFELE 503.88.990
					●	●	A25	UNDER COUNTER HOSE BIBB	REF PLUMBING
				●	●	●	A26	FLOOR DRAIN (-1" B.F.F)	REF PLUMBING
		●					A27	FIRE EXTINGUISHER CABINET (SEMI-RECESSED W/ LOCK - 48" A.F.F. TO TOP OF CABINET)	REF SPEC
		●					A28	FIRE EXTINGUISHER (WALL MOUNTED - 48" A.F.F. TO TOP OF EXTG.)	REF SPEC
					●		A29	COUNTER TOP MIRROR	REF SPEC
				●			A30	METAL SHELF	BY OWNER
							A31	SSTL STEP AND WASH (UNDER COUNTER)	SNW-SS 975B
		●					A32	SSTL CORNER GUARDS - 3"x3"x1/8" - FULL HEIGHT	REF SPEC
					●	●	A33	DEODORIZER	BY OWNER
					●		A34	SOLID SURFACE CONTINUOUS URINAL SCREEN BRACKET (BLOCKING IN WALL)	REF SPEC
					●		A35	SOLID SURFACE URINAL SCREEN	REF SPEC
					●		A36	SOLID SURFACE TOILET PARTITION (OVERHEAD MOUNTED)	REF SPEC
					●		A37	SOLID SURFACE COUNTERTOP	REF SPEC
					●		A38	INTEGRAL SOLID SURFACE SINK	REF SPEC
		NOT USED					A39	WALL MOUNTED RETRACTABLE BARRIER & RECIEVER (RETRACTA-BELT)	WM-700
			●				A40	MOP SINK	TSBCR1100
			●				A41	MOP SINK W/ TILE WAINSCOT	FIAT MSB 24x24
		●					A42	HI-LOW WATER FOUNTAIN (NON-CHILLED)	RE-USE EXISTING
		●					A43	DEDICATION PLAQUE	BY OWNER
		●					A44	AED CABINET LOCAKABE W/ ALARM (48" TO TOP OF CABINET)	REF SPEC
					●	●	A45	HAND SANITIZER	BY OWNER

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Key Plan:

Design Criteria Package
NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

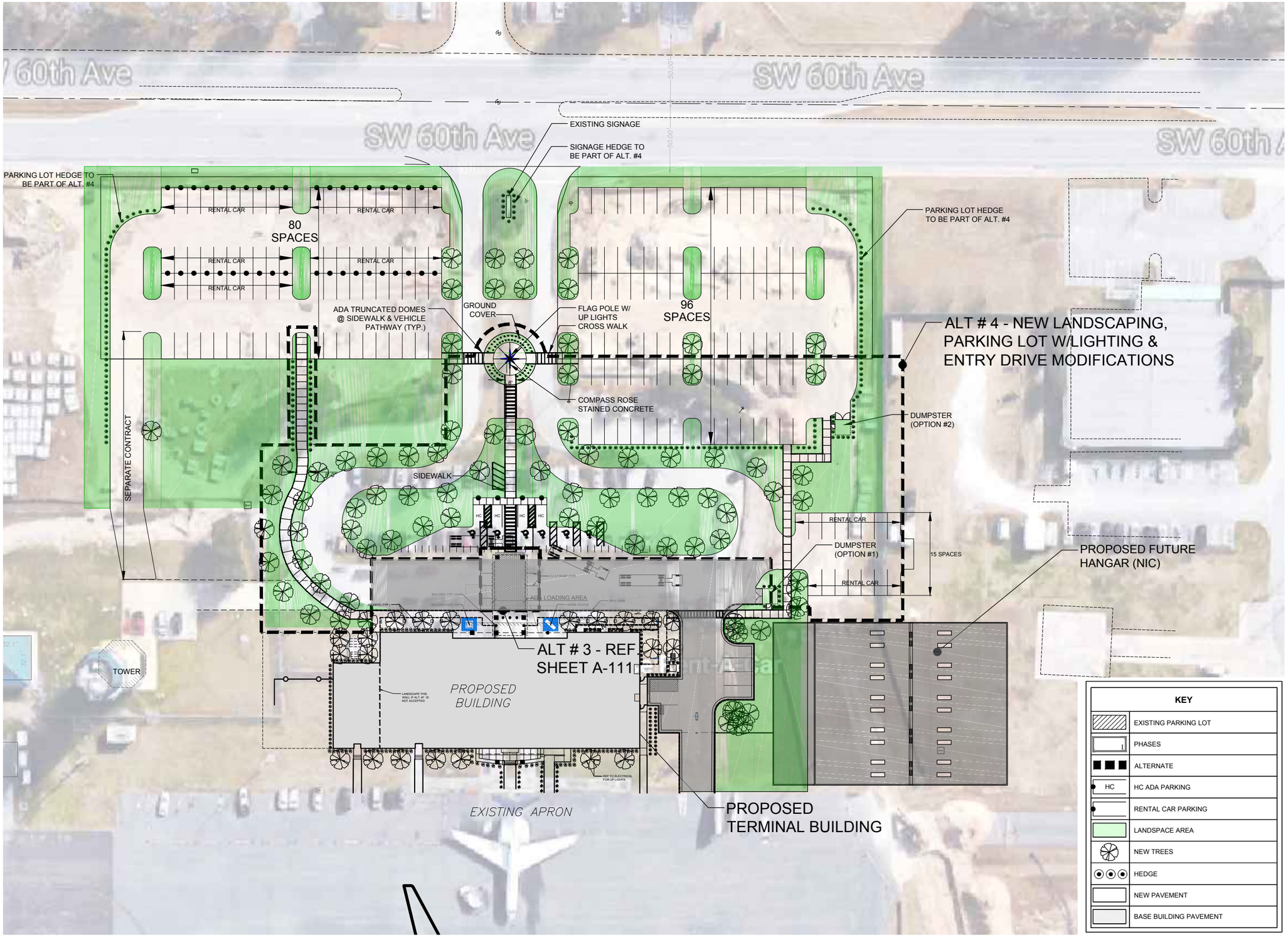
Designed by:	Drawn by:	Checked by:
CH	KGL	CH

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
TYPICAL ADA DETAILS

Project Number: No. 161641
Division : Architecture
Date: November 15, 2017

Drawing Number:
A-002



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Key Plan:

Design Criteria Package
November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CHJr	KGL	CHJr

Project Name:
GENERAL AVIATION TERMINAL BUILDING

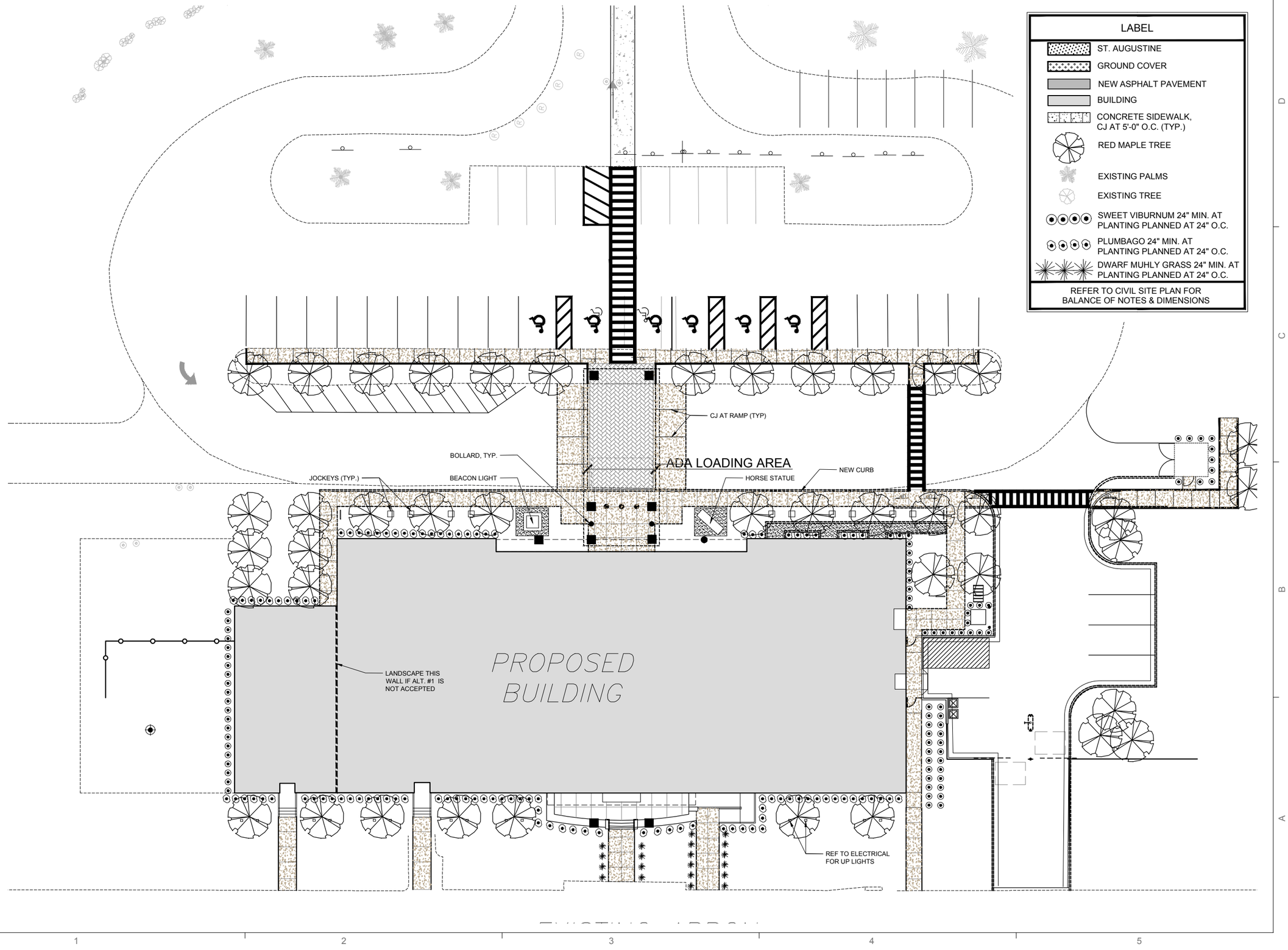
Drawing Name:
PROPOSED ALTERNATE SITE PLAN

Project Number:	Division :
No. 161641	Architecture

Date:
November 15, 2017

Drawing Number:
A-101

File Path



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Key Plan:

Design Criteria Package
November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CHJr	KGL	CHJr

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
PROPOSED LANDSCAPE PLAN

Project Number:	Division :
No. 161641	Architecture

Date: November 15, 2017

Drawing Number:
LA-101

File Path

PLANT SCHEDULE

COMMON NAME	SIZE	NOTES
TREES		
EXISTING TREES		TO BE RELOCATED TO NEW LOCATION
RED MAPLE	8' MIN. HT, STANDARD TRUNK	
SHRUBS/GROUNDCOVER		
SWEET VIRBUNUM	24" MIN. AT PLANTING	30" o.c.
PLUMBAGO	24" MIN. AT PLANTING	30" o.c.
DWARF MUHLY GRASS OR DWARF FIRECRACKER	24" MIN. AT PLANTING	30" o.c.
SOD AND GRASSES		
ST. AUGUSTINE		SOD AREAS AS SHOWN ON PLANS

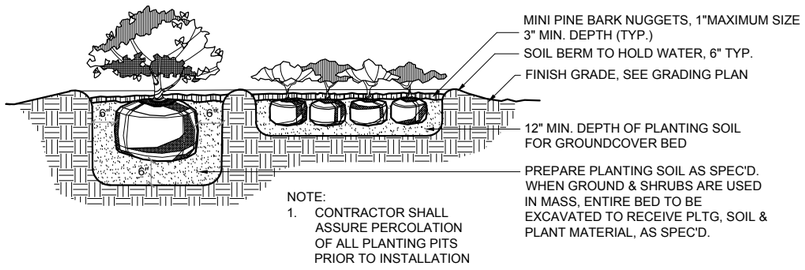
GENERAL NOTES

THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SITE PRIOR TO BIDDING THE WORK. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF PROPOSED IMPROVEMENTS PRIOR TO INITIATING ANY CONSTRUCTION. LOCATION OF ALL UTILITIES AND BASE INFORMATION IS APPROXIMATE. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES AND OBSTRUCTIONS PRIOR TO INITIATING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO EXISTING ELEMENTS ABOVE OR BELOW GROUND TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT, AT ANY STAGE OF THE OPERATIONS, TO REJECT ANY AND ALL WORK AND MATERIAL WHICH, IN HIS OPINION, DO NOT MEET WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS. ALL GRADES, DIMENSIONS, AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR ON-SITE BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR TO START OF CONSTRUCTION AND/OR FABRICATION. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS. REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY MEASURES DURING CONSTRUCTION OPERATIONS TO PROTECT THE PUBLIC ACCORDING TO ALL APPLICABLE CODES AND RECOGNIZED LOCAL PRACTICES. THE CONTRACTOR SHALL COORDINATE ACCESS AND STAGING AREAS WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ADVERSE IMPACTS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE. DURING THE COURSE OF THIS WORK, EXCESS WASTE MATERIAL SHALL BE REMOVED DAILY FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF WORK WITH OTHER TRADES AND THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 48 HRS MINIMUM PRIOR TO DIGGING FOR FIELD VERIFICATION OF ALL UNDERGROUND UTILITIES. ALL EXISTING SITE ROADS, PARKING LOTS, CURBS, UTILITIES, SEWERS, AND OTHER ELEMENTS TO REMAIN SHALL BE FULLY PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.

LANDSCAPE NOTES

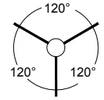
1. THE CONTRACTOR SHALL REVIEW THE CONCEPTUAL PLANS TO BECOME THOROUGHLY FAMILIAR WITH SURFACE AND SUBSURFACE UTILITIES. REFER TO ALTERNATES FOR LANDSCAPING REQUIRED PER EXPANDED PARKING LOTS & REVISED ROADWAYS
2. THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL LANDSCAPE DESIGN, IRRIGATION SYSTEM UPGRADES & MODIFICATIONS, AND TIE-IN OF THE EXISTING SYSTEM.
3. ALL INSTALLATION OF PLANT MATERIAL SHALL COMPLY WITH APPLICABLE JURISDICTIONAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS ASSOCIATED WITH THIS WORK.
4. PRIOR TO PLANTING INSTALLATION, THE CONTRACTOR SHALL CONFIRM THE AVAILABILITY OF ALL THE SPECIFIED PLANT MATERIALS. SUBMIT DATED PHOTOGRAPHS OF TREE MATERIAL AND SPECIMEN PLANT MATERIAL TO THE OWNER'S REPRESENTATIVE FOR REVIEW.
5. ALL PLANT MATERIAL SIZES SPECIFIED ARE MINIMUM SIZES. CONTAINER SIZE SHALL BE INCREASED IF NECESSARY TO PROVIDE OVERALL PLANT SIZE SPECIFIED.
6. IF PLANT MATERIAL DOES NOT COMPLY WITH THE REQUIREMENTS AS SPECIFIED HEREIN, THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT SUCH PLANTS AND REQUIRE THE CONTRACTOR TO REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL REINSPECTED AND FOUND TO BE ACCEPTABLE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILITY AND PLUMB CONDITION OF ALL TREES AND SHRUBS, AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF ANY PLANT MATERIALS. STAKING OF TREES OR SHRUBS SHALL BE DONE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
8. THE CONTRACTOR SHALL INSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS AND PLANTERS. IF INADEQUATE VERTICAL DRAINAGE IS ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT RECOMMENDATIONS FOR PROVIDING ADEQUATE DRAINAGE TO THE OWNER'S REPRESENTATIVE.
9. PEG SPECIFIED SOD ON SLOPES GREATER THAN 3:1.
10. THE CONTRACTOR SHALL ENGAGE A QUALIFIED TREE SURGEON WHO HAS SUCCESSFULLY COMPLETED TREE PROTECTION AND TREE TRIMMING WITH FIVE YEARS OR MORE EXPERIENCE, TO PERFORM THE FOLLOWING WORK:
11. REMOVE BRANCHES FROM TREES THAT ARE TO REMAIN, IF REQUIRED, AS DIRECTED BY OWNER'S REPRESENTATIVE.
12. PERFORM INITIAL PRUNING OF BRANCHES AND STIMULATION OF ROOT GROWTH WHERE REMOVED TO ACCOMMODATE NEW CONSTRUCTION.
13. PERFORM TREE REPAIR WORK FOR DAMAGE INCURRED BY NEW CONSTRUCTION.
14. CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION SYSTEM FOR RELOCATED TREES. $ EXISTING LANDSCAPING THAT WILL BE IMPACTED BY THE NEW CONSTRUCTION.
15. CONTRACTOR SHALL PROTECT EXISTING VEGETATION TO REMAIN AS SHOWN ON DRAWINGS OR BY MEANS APPROVED BY THE OWNER'S REPRESENTATIVE.
16. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK. SEE SPECIFICATIONS FOR ADDITIONAL TESTING REQUIREMENTS.
17. CONTRACTOR SHALL CONTACT THE PROJECT LANDSCAPE ARCHITECT PRIOR TO PLANT MATERIAL INSTALLATION SO THAT HE MAY FIELD-ADJUST LOCATION OF PLANT MATERIAL PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER'S REPRESENTATIVE.
18. ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE WITH FLORIDA NO. 1 GRADE, ACCORDING TO THE "GRADES AND STANDARDS FOR NURSERY PLANTS" PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
19. ALL PLANTING BEDS SHALL BE TOP-DRESSED WITH A 3" LAYER OF MINI PINE BARK MULCH AS SPECIFIED. ALL TREES SHALL HAVE A 3" THICK, 24" RADIUS (FROM THE TRUNK) MULCH RING PLACED AROUND THE BASE OF THE TRUNK.
20. SHRUB AND GROUND COVER BED QUANTITIES ARE INDICATED ON THE PLANT LIST. PLANT ACCENT SHRUBS AND TREES AS SHOWN ON THE LANDSCAPE PLANTING PLANS WHEN INDIVIDUAL PLANTS ARE DELINEATED.
21. PALM HEIGHTS, AS INDICATED ON THE PLANS, REFER TO CLEAR TRUNK (C.T.), GRAY WOOD (G.W.), OR OVERALL HEIGHT (O.A.) AS SPECIFIED ON THE PLANT LIST. CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH IRRIGATION WORK.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING AS REQUIRED TO SUPPLEMENT IRRIGATION WATERING AND RAINFALL.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS, REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION.
24. CONTRACTOR SHALL REGRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK.
25. CONTRACTOR SHALL REPLACE (BY EQUAL SIZE AND QUALITY) ANY AND ALL EXISTING PLANT MATERIAL DISTURBED OR DAMAGED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK.
26. MAINTENANCE SHALL BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE UNTIL THE DATE OF SUBSTANTIAL COMPLETION. MAINTENANCE INCLUDES WATERING, PRUNING, WEEDING, MULCHING, REPLACEMENTS OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY FOR THE PROPER GROWTH OF THE PLANT MATERIAL.
27. UPON COMPLETION OF ALL LANDSCAPING, AN INSPECTION FOR SUBSTANTIAL COMPLETION OF THE WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR SCHEDULING THE INSPECTION AT LEAST SEVEN (7) DAYS PRIOR TO THE ANTICIPATED INSPECTION DATE.
28. CONTRACTOR SHALL SUBMIT WRITTEN GUARANTEE OF SURVIVABILITY OF ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
29. THE CONTRACTOR SHALL REPLACE ANY DISTURBED SOD AREAS AND SOD ALL DISTURBED AREAS WITH A TYPE TO MATCH THE EXISTING AREAS DISTURBED.
30. IRRIGATION SYSTEM TO MEET ALL CITY OF SEBASTIAN, INDIAN RIVER COUNTY, AND STATE OF FLORIDA REQUIREMENTS AND STANDARDS FOR FLORIDA FRIENDLY STANDARDS.
31. MINIMUM 50% OF ALL PLANTED MATERIAL TO BE NATIVE.



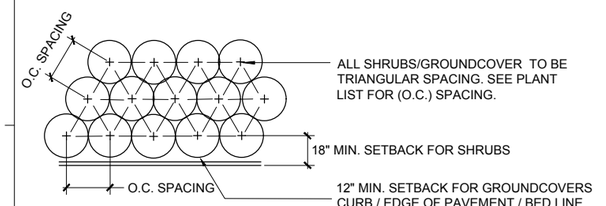
NOTE:
1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION

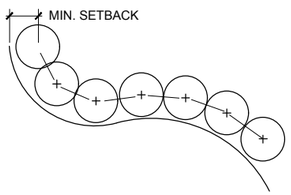
SHRUB AND GROUNDCOVER PLANTING DETAIL

NTS



PLAN VIEW OF STAKING

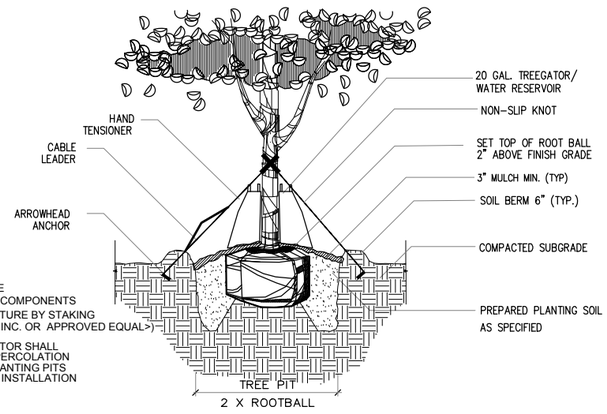




NOTE:
1. THE PERIMETER OF ALL CURVED PLANTING BEDS SHALL BE PLANTED WITH A ROW OF SHRUBS AS SHOWN IN THE PLANS AND AT THE SPACING SHOWN IN THE PLANT LIST. INTERIOR PORTIONS OF EACH BED SHALL BE PLANTED AT APPROPRIATE SPACING ACCORDING TO THIS PLANT SPACING DETAIL.

PLANT SPACING DETAIL

NTS



NOTE:
1.)ARBOR TIE (STAKING COMPONENTS MANUFACTURE BY STAKING SYSTEMS INC. OR APPROVED EQUAL>)
2.)CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION

TREE PLANTING DETAIL

NTS

Ocala International Airport

OCALA INTERNATIONAL AIRPORT
CITY OF OCALA

Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
4211 WEST BOY SCOUT BLVD., SUITE 500
TAMPA, FL 33607
PHONE 813-889-3892 • FAX 813-889-3893
FLORIDA LICENSE # AA 26002484

Key Plan:

Design Criteria Package
November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CHJr	KGL	CHJr

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

LANDSCAPE DETAILS & NOTES

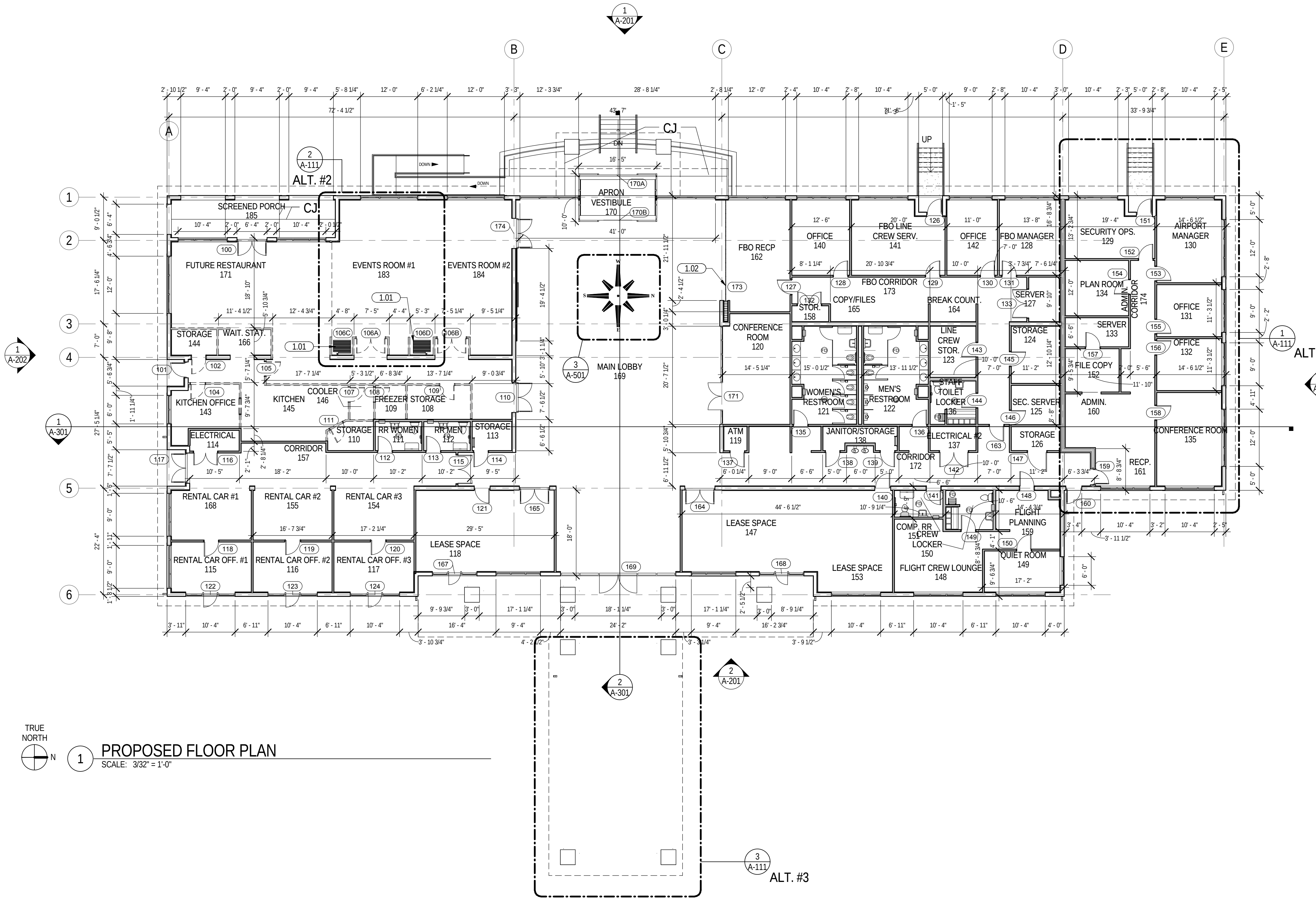
Project Number:	Division :
No. 161641	Architecture

Date:
November 15, 2017

Drawing Number:

LA-102

File Path



TRUE NORTH

1 PROPOSED FLOOR PLAN
SCALE: 3/32" = 1'-0"

Ocala International Airport

OCALA INTERNATIONAL AIRPORT
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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

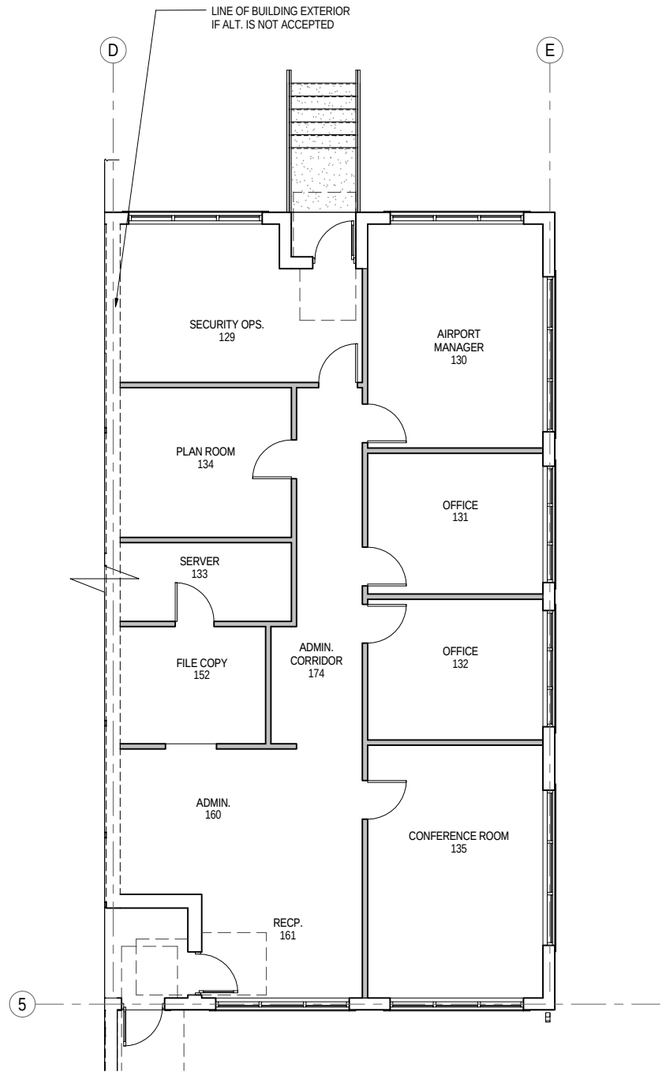
FIRST FLOOR PLAN

Project Number:	Division:
No. 161641	Architecture

Date: November 15, 2017

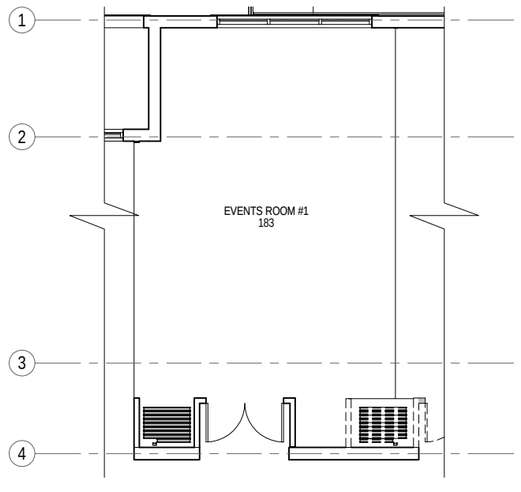
Drawing Number:

A-110



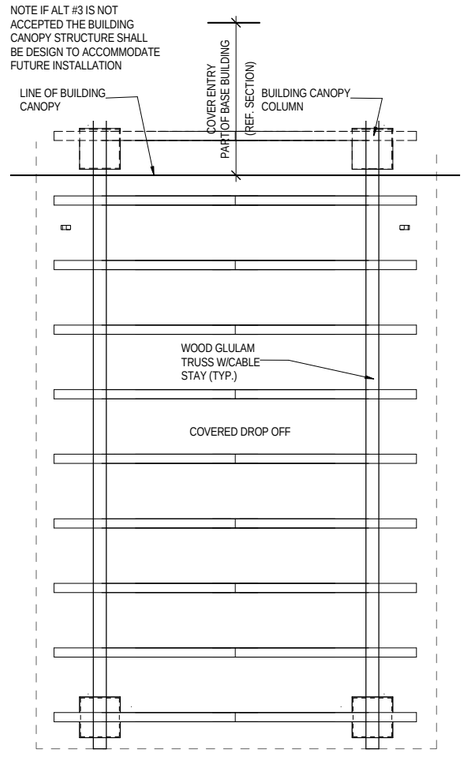
TRUE NORTH

1 ALTERNATE #1 - AIRPORT ADMINISTRATIVE OFFICE
SCALE: 3/16" = 1'-0"



TRUE NORTH

2 ALTERNATE #2 - EXPANDED CONF./EVENTS ROOM
SCALE: 3/16" = 1'-0"



TRUE NORTH

3 ALTERNATE #3 - DRIVEWAY CANOPY
SCALE: 3/16" = 1'-0"

REFERENCE SITE PLAN
FOR PARKING LOT ALT.

2
A-201

Ocala International Airport

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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

Project Name:

GENERAL AVIATION
TERMINAL BUILDING

Drawing Name:

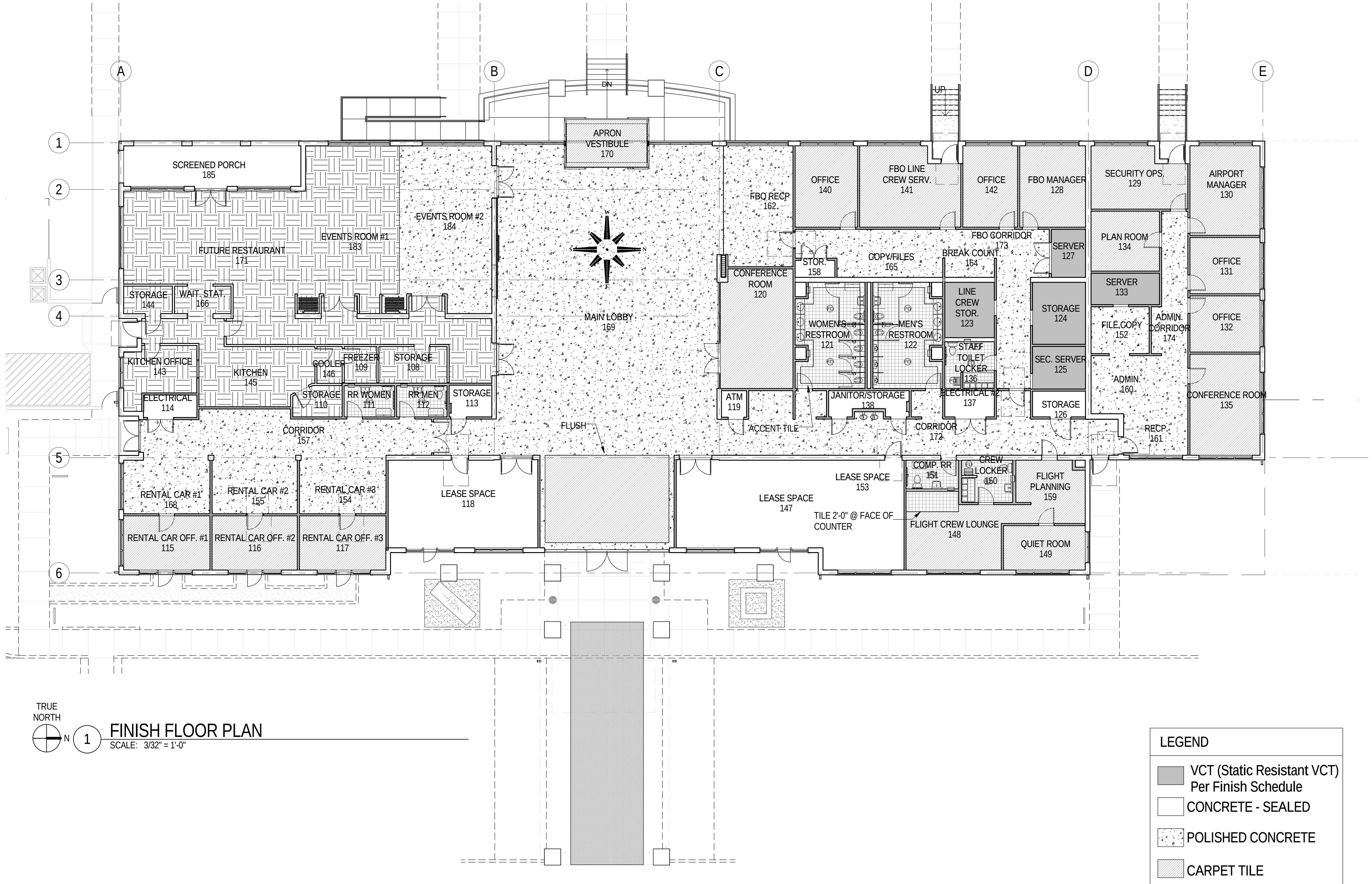
ALTERNATE PLANS

Project Number:	Division :
No. 161641	Architecture

Date:
November 15, 2017

Drawing Number:

A-111



1 FINISH FLOOR PLAN

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

LEGEND

- VCT (Static Resistant VCT) Per Finish Schedule
- CONCRETE - SEALED
- POLISHED CONCRETE
- CARPET TILE
- UNFINISHED SPACE
- TILE
- ACCENT TILE
- CONCRETE PAVERS

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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
FINISH FLOOR PLAN

Project Number:	Division :
No. 161641	Architecture

Date: November 15, 2017

Drawing Number: A-120

SCHEDULE - INTERIOR MATERIAL & COLOR BASIS OF DESIGN

FINISH	DESCRIPTION	MANUFACTURER	STYLE	COLOR	COMMENTS
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	CERAMAGUARD 605	WHITE	610mm x 610mm x 25mm; 20mm GRID; MOISTURE RESISTANT; WET AREAS
ACT-2	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA BEVELED TEGULAR	WHITE	610mm x 610mm x 15mm; 15mm GRID; COMMON AREAS, OFFICES AND VESTIBULES
CONC-1	POLISHED CONCRETE	L.M. SCOFIELD COMPANY	MIX DESIGN PER SPECIFICATIONS	-	
CONC-2	FLOOR COATING - CONCRETE SEALER	L.M. SCOFIELD COMPANY	CONCRETE PROTECTOR	CLEAR	STORAGE AND FUTURE TENANT AREAS
CPT-1	CARPET TILE	MOHAWK	BIOMORPH	955 MEDIUM COOL GREY	OFFICES - LOBBY & CORRIDORS
CPT-2	CARPET TILE	MOHAWK	FIRST STEP II	OBSIDIAN-989	WALK-OFF AT ENTRIES AND VESTIBULES
LK-1	LOCKERS	DURALIFE LOCKERS	SCRATON PRODUCT	BLUEBERRY	LOCKERS
P-1	WALL PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	REFUGE 6228	ACCENT COLOR
P-2	WALL PAINT	SHERWIN WILLIAMS	EGGSHELL HIGH PERFORMANCE FINISH	PACER WHITE 6098	BASE COLOR - SERVICE AREAS
P-3	WALL PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	SENSIBLE HUE 6198	CORRIDORS
P-4	WALL PAINT (EPOXY)	SHERWIN WILLIAMS	EPOXY EGGSHELL FINISH	EGRET WHITE 7570	TOILET WALLS
P-5	CEILING PAINT/GYPSUM BOARD	SHERWIN WILLIAMS	FLAT FINISH	HIGH REFLECTIVE WHITE 7757	
P-6	HM DOOR/FRAME	SHERWIN WILLIAMS	SEMI-GLOSS HIGH PERFORMANCE FINISH	GAUTLET GREY 7019	HOLLOW METAL DOOR FRAMES
PL-1	PLASTIC LAMINATE	WILSONART	N/A	5TH AVE. ELM 7966K-12	MILLWORK
PL-2	PLASTIC LAMINATE	WILSONART	N/A	MUSHROOM 5013	TOILET PARTITIONS
PT-1	PORCELANE TILE	CROSSVILLE	-	-	FLOOR TILE - REFER TO SPECS
PT-2	PORCELANE TILE	CROSSVILLE	-	-	WALL TILE - REFER TO SPECS
RB-1	RUBBER BASE	JOHNSONITE	100mm TRADITIONAL	STORMCLOUD 71	STRAIGHT AT CARPET; COVED AT RESILIENT/VCT/HARD - ROOMS W/VCT
RB-2	RUBBER BASE	JOHNSONITE	100mm TRADITIONAL	BLACK 40	STRAIGHT AT CARPET; COVED AT RESILIENT/VCT/HARD - WALK OFF AREAS
RB-3	RUBBER BASE	JOHNSONITE	MASQUERADE	RATTAN	AT CARPET
SD-1	SOLID SURFACE	DUPONT - CORIAN	N/A	MINERAL	RESTROOM (WITH INTEGRAL SINKS) & MAILROOM COUNTERTOPS; SHOWER PANS; WINDOW STOOLS
SS-1	STAINLESS STEEL	TBD	TBD	TBD	COUNTERTOP - MAIL ROOM MAIL BOX SORTING COUNTER
ST-1	STONE VENEER	EL DORADO STONE	STACKED STONE	DRY CREEK	ACCENT WALL AT LOBBY& ELEVATIONS
VCT-1	VINYL COMPOSITION TILE	ARMSTRONG	IMPERIAL TEXTURE STANDARD EXCELON	CIRRUS	STORAGE ROOMS
VCT-2	VINYL COMPOSITION TILE - ANTI-STATIC	ARMSTRONG	-	CIRRUS	SERVER ROOMS
WD-1	WOOD DOORS	ARCHITECTURAL WOOD DOORS	WHITE BIRCH	RIVERSTONE R115	
WT-1	WINDOW TREATMENT	HUNTER DOUGLAS	25mm HORIZONTAL	BRUSHED ALUMINUM 065	ALL WINDOWS
XCG1	CORNER GUARD	C/S ACROVYN	SHADOWGRAIN TEXTURE	SAGE GREEN 660	FLUSH MOUNT, SQUARE EDGE; OUTSIDE CORRIDOR CORNERS
XCR1	CHAIR RAIL	C/S ACROVYN	SCR-40N	SAGE GREEN 660	COMMON AREAS, INSTALLED AT 1066mm A.F.F
XGT1	GROUT	CUSTOM BUILDING PRODUCTS	EPOXY; ANTI-MICROBIAL; ANTI-FUNGAL	OYSTER GRAY 386	USED IN CONJUNCTION WITH CERAMIC

SCHEDULE - FINISH

ROOM			FLOORS	WALLS	CEILINGS	
NUMBER	NAME	BASE FINISH	FINISH	FINISH	FINISH	COMMENTS
108	STORAGE	NONE	NO SLAB	NONE	NONE	UNFINISHED SHELL
109	FREEZER	NONE	NO SLAB	NONE	NONE	UNFINISHED SHELL
110	STORAGE	NONE	NO SLAB	NONE	NONE	UNFINISHED SHELL
111	RR WOMEN	PT-2	PT-1	PT-2/P-4	ACT-1	
112	RR MEN	PT-2	PT-1	PT-2/P-4	ACT-1	
113	STORAGE	RB-1	CONC-2	P-2	ACT-2	
114	ELECTRICAL	NONE	CONC-2	P-2	ACT-2	
115	RENTAL CAR OFF. #1	RB-1	CPT-1	P-1	ACT-2	
116	RENTAL CAR OFF. #2	RB-1	CPT-1	P-1	ACT-2	
117	RENTAL CAR OFF. #3	RB-1	CPT-1	P-1	ACT-2	
118	LEASE SPACE	NONE	CONC-2	NONE	NONE	UNFINISHED SHELL
119	ATM	RB-1	VCT-2	P-2	ACT-2	
120	CONFERENCE ROOM	RB-1	CPT-2	P-1/P-3	ACT-2/P-5	
121	WOMEN'S RESTROOM	PT-2	PT-1	PT-2/P-4	ACT-1	WITH ACCENT TILE
122	MEN'S RESTROOM	PT-2	PT-1	PT-2/P-4	ACT-1	WITH ACCENT TILE
123	LINE CREW STOR.	RB-1	VCT-1	P-2	ACT-2	
124	STORAGE	RB-1	VCT-1	P-2	ACT-2	
125	SEC. SERVER	RB-1	VCT-2	P-2	ACT-2	
126	STORAGE	RB-1	CONC-2	P-2	ACT-2	
127	SERVER	RB-1	VCT-2	P-2	ACT-2	
128	FBO MANAGER	RB-1	CPT-1	P-1	ACT-2	
129	SECURITY OPS.	RB-1	CPT-1	P-1	ACT-2	
130	AIRPORT MANAGER	RB-1	CPT-1	P-1	ACT-2	
131	OFFICE	RB-1	CPT-1	P-1	ACT-2	
132	OFFICE	RB-1	CPT-1	P-1	ACT-2	
133	SERVER	RB-1	VCT-2	P-2	ACT-2	
134	PLAN ROOM	RB-1	CPT-1	P-1	ACT-2	
135	CONFERENCE ROOM	RB-1	CPT-1	P-1/P-3	ACT-2/P-5	
136	STAFF TOILET LOCKER	PT-2	PT-1	PT-2/P-4	ACT-1	
137	ELECTRICAL #2	NONE	CONC-2	P-2	NONE	
138	JANITOR/STORAGE	PT-2	CONC-2	PT-2/P-4	ACT-1	WALL TILE BEHIND MOP SINK
140	OFFICE	RB-1	CPT-1	P-1	ACT-2	
141	FBO LINE CREW SERV.	RB-1	CPT-3	P-1	ACT-2	
142	OFFICE	RB-1	CPT-1	P-1	ACT-2	
143	KITCHEN OFFICE	NONE	NO SLAB	NONE	NONE	UNFINISHED SHELL
144	STORAGE	NONE	NO SLAB	NONE	NONE	UNFINISHED SHELL
145	KITCHEN	NONE	NO SLAB	NONE	NONE	UNFINISHED SHELL
146	COOLER	NONE	NO SLAB	NONE	NONE	UNFINISHED SHELL
147	LEASE SPACE	NONE	CONC-2	NONE	NONE	
148	FLIGHT CREW LOUNGE	RB-1	CT-1	P-1/P-3	ACT-2	
149	QUIET ROOM	RB-1	CPT-1	P-1	ACT-2	
150	CREW LOCKER	PT-2	PT-1	PT-2/P-4	ACT-1	
151	COMP. RR	PT-2	PT-1	PT-2/P-4	ACT-1	
152	FILE COPY	RB-1	CONC-1	P-2	ACT-2	
153	LEASE SPACE	NONE	CONC-2	NONE	NONE	UNFINISHED SHELL
154	RENTAL CAR #3	RB-1	CPT-1	P-1	ACT-2/P-5	
155	RENTAL CAR #2	RB-1	CPT-1	P-1	ACT-2/P-5	
157	CORRIDOR	RB-1	CONC-1	P-1	ACT-2	
158	STOR.	RB-1	CONC-2	P-2	NONE	
159	FLIGHT PLANNING	RB-1	CONC-1	P-1/P-3	ACT-2	
160	ADMIN.	RB-1	CONC-1	P-1	ACT-2	
161	RECP.	RB-1	CONC-1	P-1	ACT-2	
162	FBO RECP	RB-1	CONC-1	P-1	ACT-2	
164	BREAK COUNT.	RB-1	CONC-1	P-1	ACT-2/P-5	
165	COPY/FILES	RB-1	CONC-1	P-1	ACT-2/P-5	
166	WAIT. STAT.	NONE	NO SLAB	NONE	NONE	
168	RENTAL CAR #1	RB-1	CONC-1/CPT-1	P-1	ACT-2/P-5	
169	MAIN LOBBY	RB-1	CONC-1	P-1	TECTUM	STONE ACCENT WALL ST-1, REF PLAN
170	APRON VESTIBULE	RB-1	CPT-2	P-1	P-5	
171	FUTURE RESTAURANT	NONE	NO SLAB	NONE	NONE	
172	CORRIDOR	RB-1	CONC-1	P-1	ACT-2	
173	FBO CORRIDOR	RB-1	CONC-1	P-1	ACT-2	
174	ADMIN. CORRIDOR	RB-1	CONC-1	P-1	ACT-2	
183	EVENTS ROOM #1	NONE	NO SLAB	P-1	NONE	ALT.
184	EVENTS ROOM #2	NONE	CONC-1	P-1	NONE	
185	SCREENED PORCH	NONE	CONC-2	P-1	STUCCO - P-5	

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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

Project Name:
GENERAL AVIATION TERMINAL BUILDING

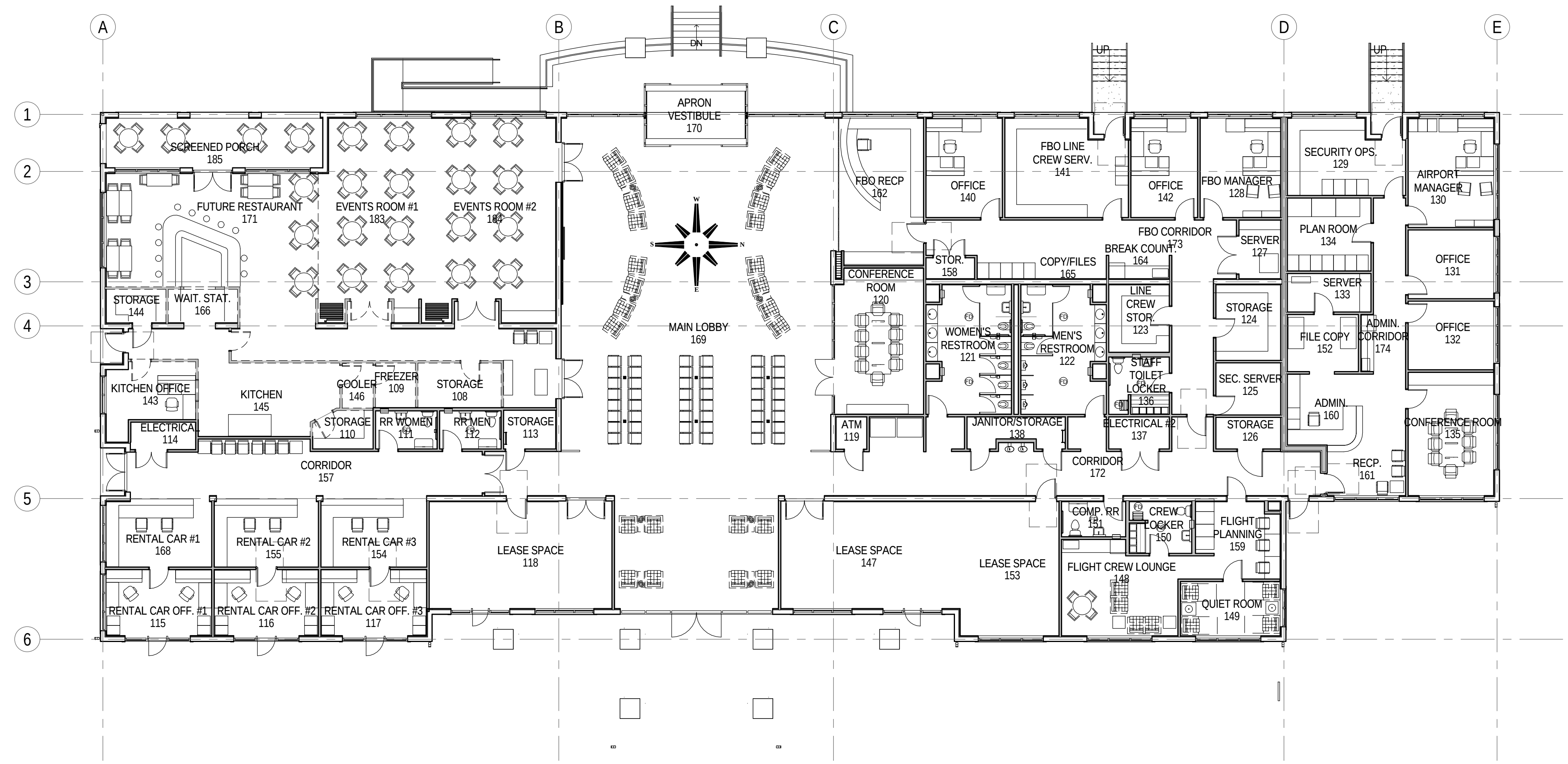
Drawing Name:
FINISH SCHEDULES

Project Number: No. 161641

Division: Architecture

Date: November 15, 2017

Drawing Number:
A-121



1 FURNITURE FLOOR PLAN

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

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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CHJr	KGL	CHJr

Project Name:

GENERAL AVIATION TERMINAL BUILDING

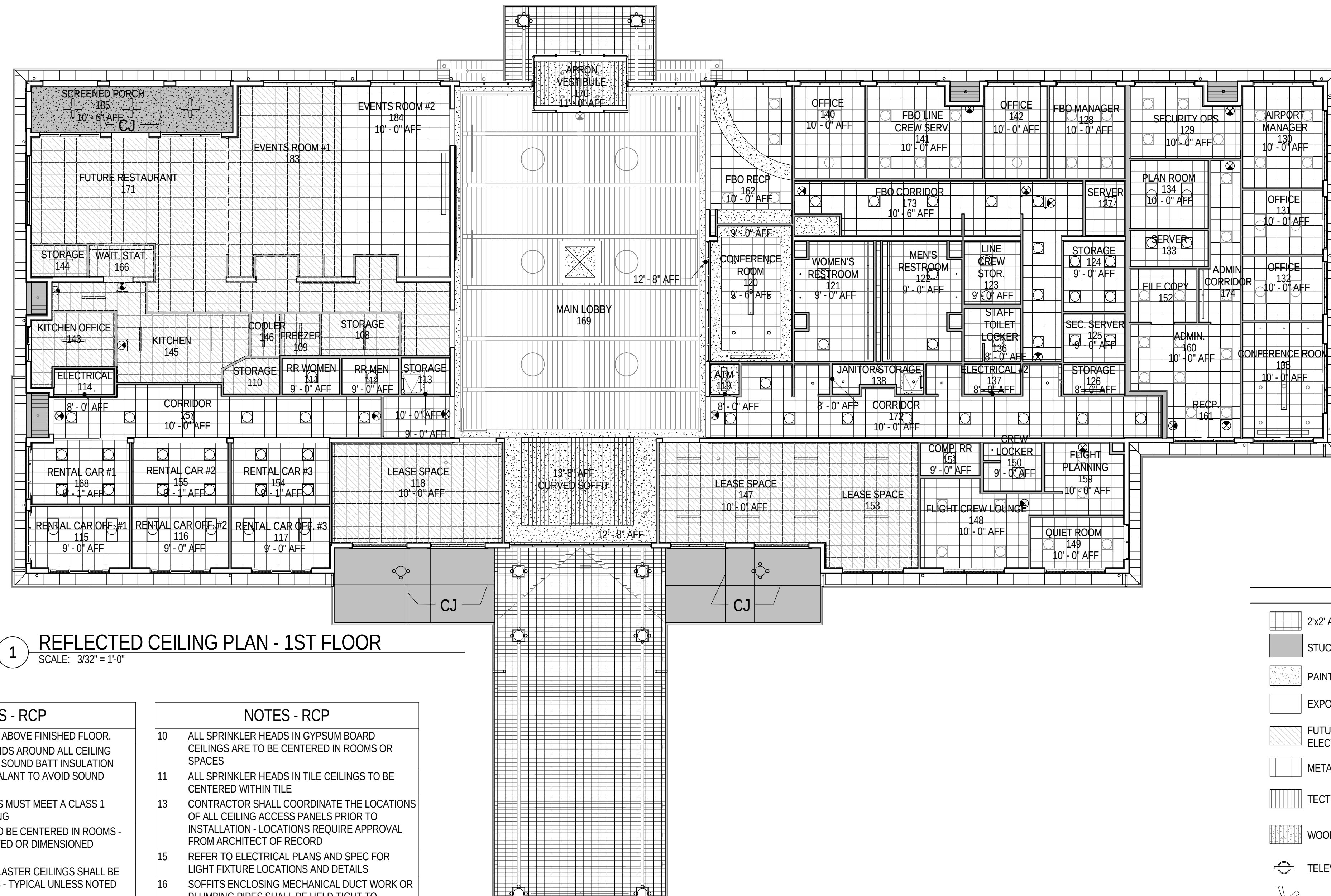
Drawing Name:

FURNITURE FLOOR PLAN

Project Number:	Division:
No. 161641	Architecture

Date: November 15, 2017

Drawing Number: A-122



1 REFLECTED CEILING PLAN - 1ST FLOOR

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

NOTES - RCP

1. ALL ELEVATIONS ARE ABOVE FINISHED FLOOR.
2. COMPLETELY FILL VOIDS AROUND ALL CEILING PENETRATIONS WITH SOUND BATT INSULATION AND ACOUSTICAL SEALANT TO AVOID SOUND TRANSFER
3. ALL CEILING SYSTEMS MUST MEET A CLASS 1 FLAME SPREAD RATING
4. ALL CEILING GRIDS TO BE CENTERED IN ROOMS - TYPICAL UNLESS NOTED OR DIMENSIONED OTHERWISE
5. LIGHT FIXTURES IN PLASTER CEILINGS SHALL BE CENTERED IN ROOMS - TYPICAL UNLESS NOTED OTHERWISE
6. ALL EXPOSED DUCTWORK, PIPES, CONDUIT AND STRUCTURE SHALL BE CLEAN AND FREE OF ANY MANUFACTURER OR CONSTRUCTION DEFECTS
6. REFER TO MECHANICAL DRAWINGS FOR VENTILATION AND HEATING VENTILATION AND AIR CONDITIONING INFORMATION
7. THE SUSPENDED CEILING SYSTEM, MECHANICAL DUCTWORK AND LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE ABOVE
9. REFER TO ELECTRICAL DRAWINGS FOR POWER AND LIGHTING INFORMATION

NOTES - RCP

10. ALL SPRINKLER HEADS IN GYPSUM BOARD CEILINGS ARE TO BE CENTERED IN ROOMS OR SPACES
11. ALL SPRINKLER HEADS IN TILE CEILINGS TO BE CENTERED WITHIN TILE
13. CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL CEILING ACCESS PANELS PRIOR TO INSTALLATION - LOCATIONS REQUIRE APPROVAL FROM ARCHITECT OF RECORD
15. REFER TO ELECTRICAL PLANS AND SPEC FOR LIGHT FIXTURE LOCATIONS AND DETAILS
16. SOFFITS ENCLOSING MECHANICAL DUCT WORK OR PLUMBING PIPES SHALL BE HELD TIGHT TO UNDERSIDE OF DUCTWORK AND PIPING - TYPICAL UNLESS NOTED OTHERWISE
17. REFER TO LOW VOLTAGE DRAWINGS FOR CEILING MOUNTED TV, SPEAKERS, SECURITY AND VIDEO CAMERA INFORMATION
18. CONTRACTOR TO COORDINATE SIZE AN LOCATIONS REQUIRED FOR ACCESS PANELS AT ALL VAV BOXES, PIPING CONTROL VALVES, SWITCHES, ETC. WITH ALL APPROPRIATE TRACES INCLUDING, BUT NOT LIMITED TO FINISH CEILING, LIGHTING AND FURNITURE

RCP LEGEND

- 2'x2' ACOUSTICAL CEILING PANEL
- STUCCO CEILING
- PAINTED GYPSUM WALLBOARD CEILING
- EXPOSED STRUCTURE
- FUTURE CEILING - NIC; REF ELECTRICAL FOR SERVICE LIGHTING
- METAL SOFFIT
- TECTUM
- WOOD SLAT
- TELEVISION REFERENCE E-DRAWINGS
- CEILING FAN
- MECHANICAL DIFFUSER REFERENCE M-DRAWINGS
- MECHANICAL GRILLE REFERENCE M-DRAWINGS
- MECHANICAL FIXTURE REFERENCE M-DRAWINGS
- LIGHTING FIXTURES REFERENCE E-DRAWINGS
- ILLUMINATED EXIT SIGN REFERENCE E-DRAWINGS
- SECURITY CAMERA REFERENCE E-DRAWINGS
- PROJECTOR
- SCREEN POWERED

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REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
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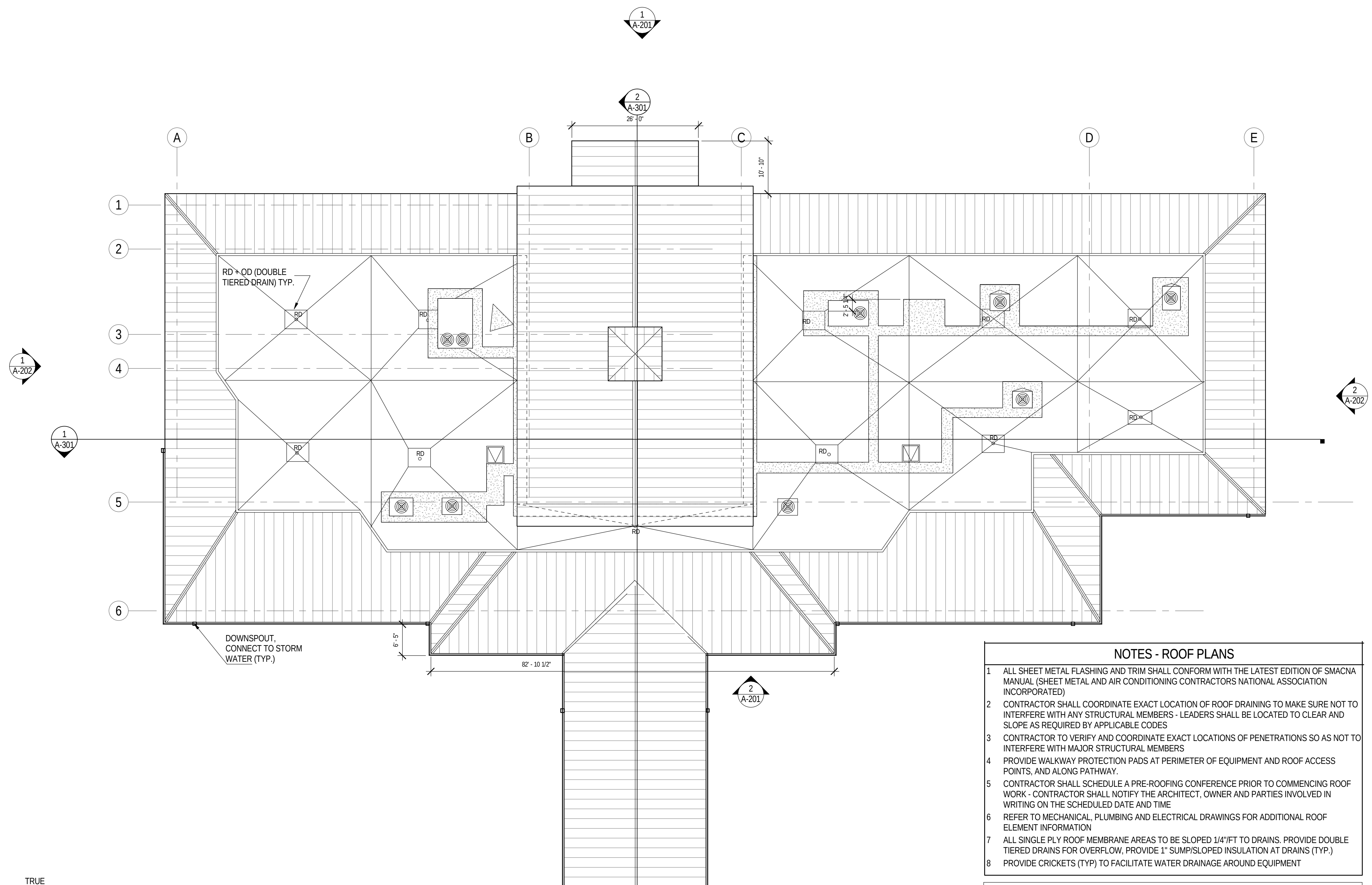
Project Name: GENERAL AVIATION TERMINAL BUILDING

Drawing Name: REFLECTED CEILING PLAN

Project Number: No. 161641 | Division: Architecture

Date: November 15, 2017

Drawing Number: A-130



TRUE NORTH

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

NOTES - ROOF PLANS

1. ALL SHEET METAL FLASHING AND TRIM SHALL CONFORM WITH THE LATEST EDITION OF SMACNA MANUAL (SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION INCORPORATED)
2. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ROOF DRAINING TO MAKE SURE NOT TO INTERFERE WITH ANY STRUCTURAL MEMBERS - LEADERS SHALL BE LOCATED TO CLEAR AND SLOPE AS REQUIRED BY APPLICABLE CODES
3. CONTRACTOR TO VERIFY AND COORDINATE EXACT LOCATIONS OF PENETRATIONS SO AS NOT TO INTERFERE WITH MAJOR STRUCTURAL MEMBERS
4. PROVIDE WALKWAY PROTECTION PADS AT PERIMETER OF EQUIPMENT AND ROOF ACCESS POINTS, AND ALONG PATHWAY.
5. CONTRACTOR SHALL SCHEDULE A PRE-ROOFING CONFERENCE PRIOR TO COMMENCING ROOF WORK - CONTRACTOR SHALL NOTIFY THE ARCHITECT, OWNER AND PARTIES INVOLVED IN WRITING ON THE SCHEDULED DATE AND TIME
6. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL ROOF ELEMENT INFORMATION
7. ALL SINGLE PLY ROOF MEMBRANE AREAS TO BE SLOPED 1/4"/FT TO DRAINS. PROVIDE DOUBLE TIERED DRAINS FOR OVERFLOW, PROVIDE 1" SUMP/SLOPED INSULATION AT DRAINS (TYP.)
8. PROVIDE CRICKETS (TYP) TO FACILITATE WATER DRAINAGE AROUND EQUIPMENT

LEGEND

- METAL STANDING SEAM ROOF
- SINGLE PLY ROOF ON TAPERED INSULATION
- WALKWAY PROTECTION BOARD
- GUTTER
- DOWNSPOUT

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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

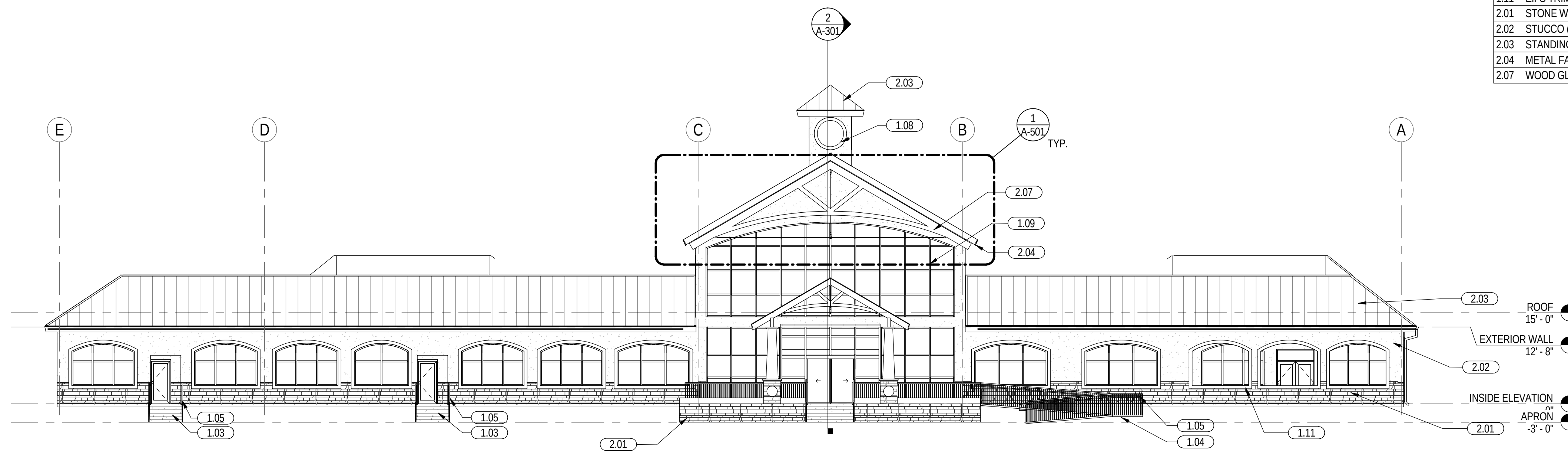
Designed by:	Drawn by:	Checked by:
WHJr	KGL	WHJr

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
ROOF PLAN

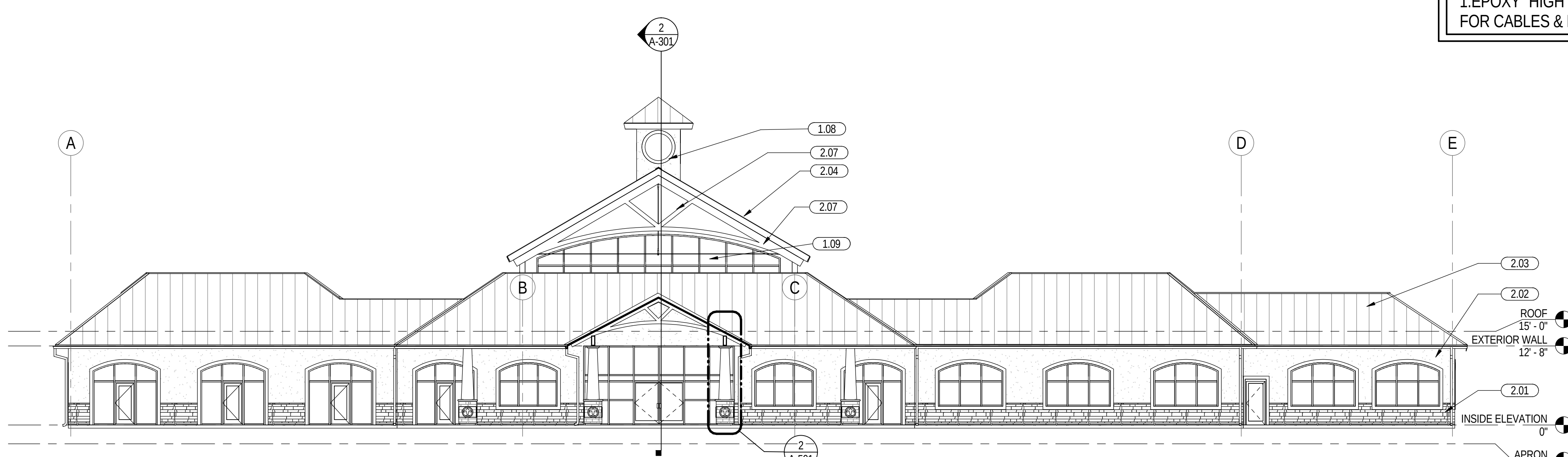
Project Number: No. 161641
Division: Architecture
Date: November 15, 2017
Drawing Number: A-140

KEYNOTES	
1.03	CONCRETE STAIRS (TYP.)
1.04	RAMP
1.05	ALUMINUM GUARDRAIL & HANDRAIL (TYP.)
1.08	INSULATED GLASS (TYP.)
1.09	STOREFRONT
1.11	EIFS TRIM
2.01	STONE WAINSCOT (TYP.)
2.02	STUCCO (TYP.)
2.03	STANDING SEAM METAL ROOF (TYP.)
2.04	METAL FASCIA (TYP.)
2.07	WOOD GLULAM TRUSS W/CABLE STAY (TYP.)



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

NOTES:
1.EPOXY "HIGH PERFORMANCE" PAINT COATING FOR CABLES & PIPES AT TRUSSES.



2 EAST ELEVATION
SCALE: 3/32" = 1'-0"

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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

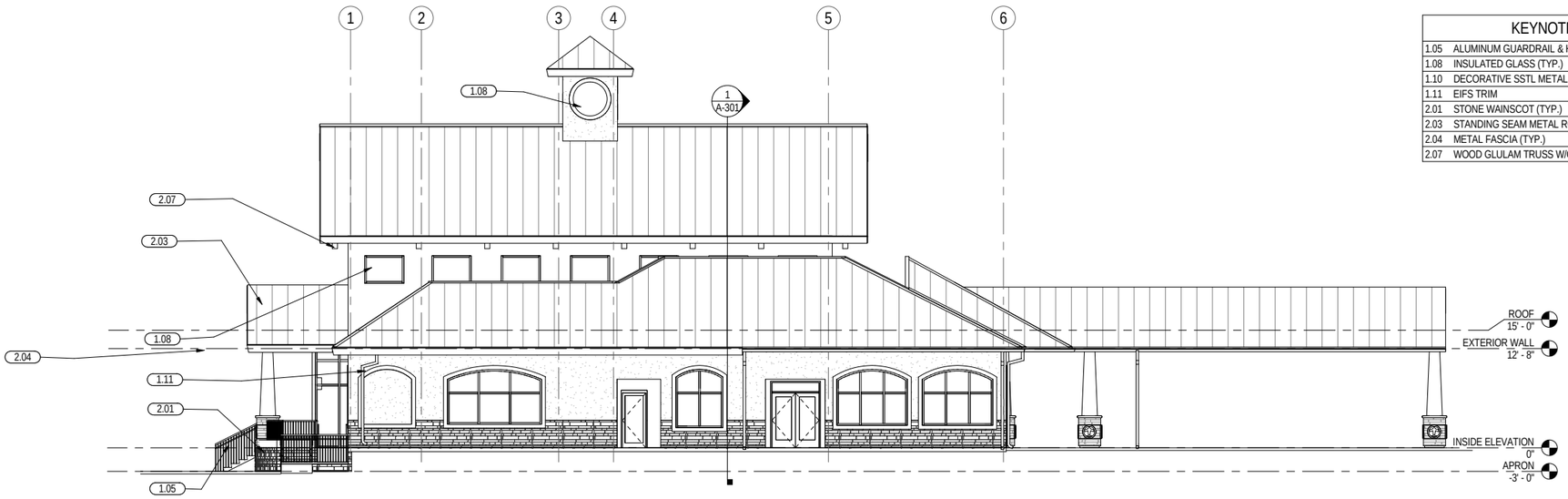
Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
EXTERIOR ELEVATIONS

Project Number:	Division:
No. 161641	Architecture

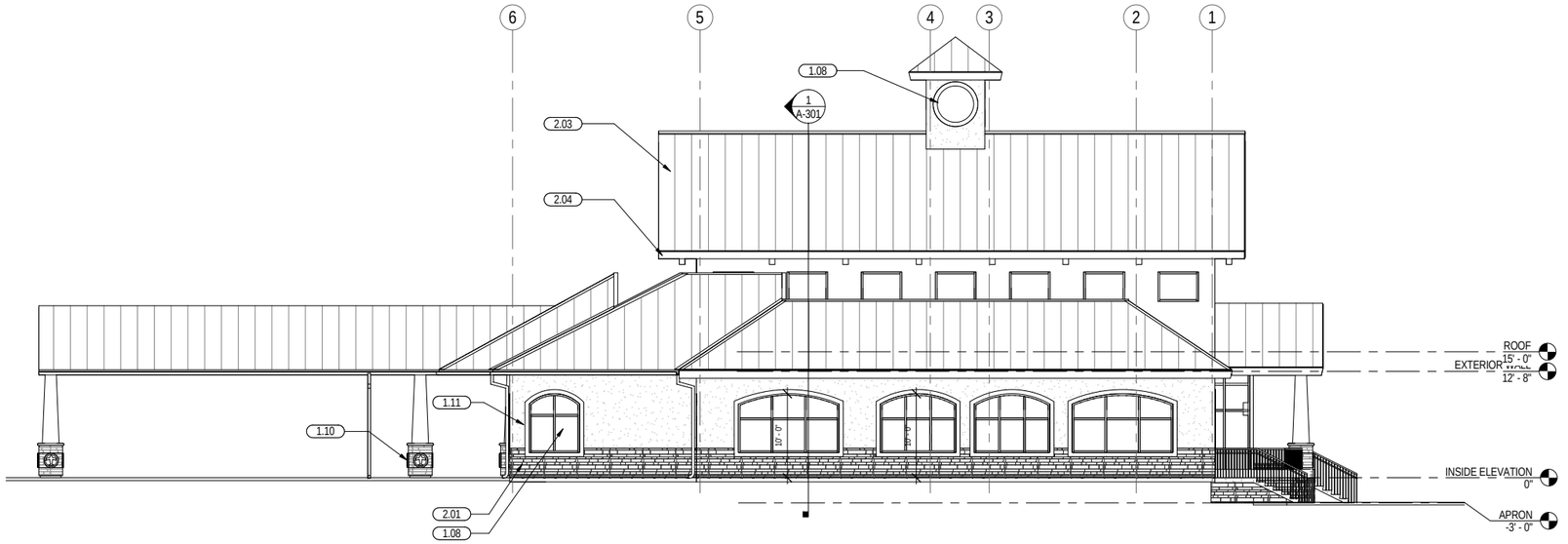
Date: November 15, 2017

Drawing Number:
A-201



KEYNOTES	
1.05	ALUMINUM GUARDRAIL & HANDRAIL (TYP.)
1.08	INSULATED GLASS (TYP.)
1.10	DECORATIVE SSTL METAL SYMBOL
1.11	EIFS TRIM
2.01	STONE WAINSCOT (TYP.)
2.03	STANDING SEAM METAL ROOF (TYP.)
2.04	METAL FASCIA (TYP.)
2.07	WOOD GLULAM TRUSS W/CABLE STAY (TYP.)

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



2 NORHT ELEVATION
SCALE: 1/8" = 1'-0"

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Key Plan:

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NOVEMBER 15, 2017

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No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

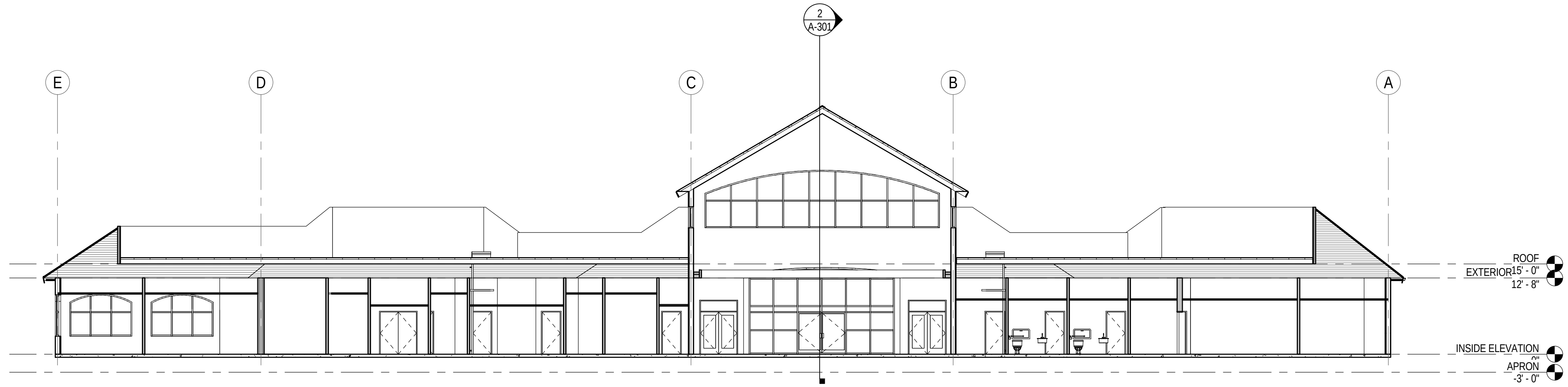
Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
EXTERIOR ELEVATIONS

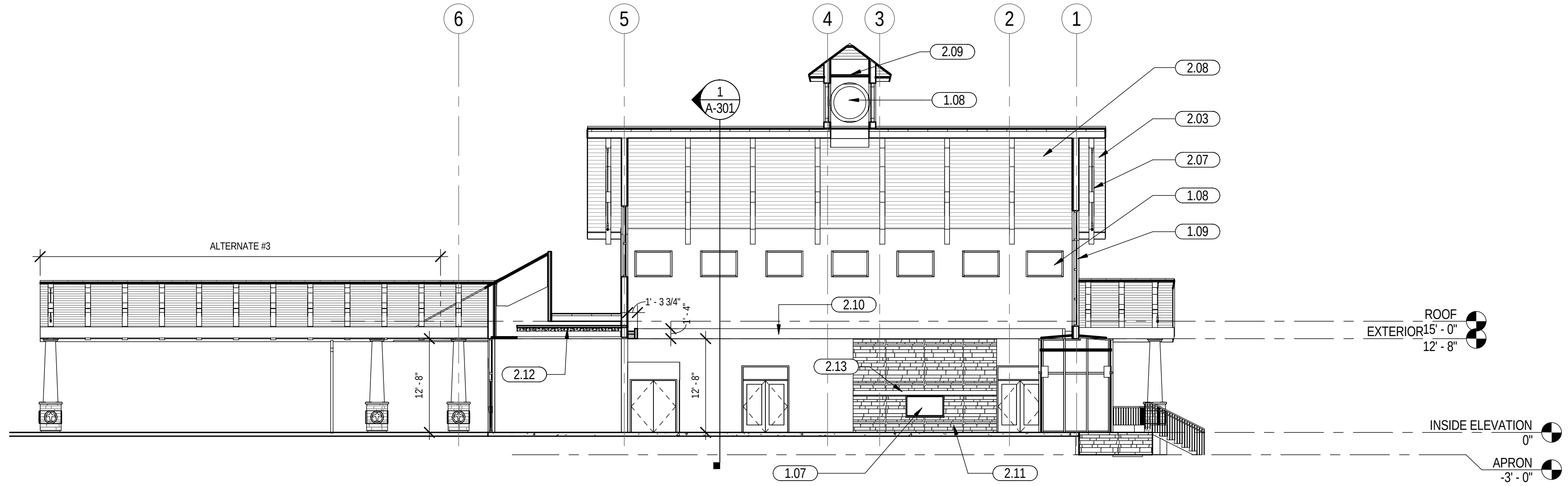
Project Number:	Division :
No. 161641	Architecture

Date:
November 15, 2017

Drawing Number:
A-202



1 Section 9
SCALE: 3/32" = 1'-0"



KEYNOTES	
1.07	TV (TYP.)
1.08	INSULATED GLASS (TYP.)
1.09	STOREFRONT
2.03	STANDING SEAM METAL ROOF (TYP.)
2.07	WOOD GLULAM TRUSS W/CABLE STAY (TYP.)
2.08	TECTUM PANELS
2.09	GYPSUM BOARD CEILING
2.10	LIGHT COVE SOFFIT
2.11	STONE VENEER
2.12	CURVED TRAY CEILING
2.13	WOOD MANTEL

2 Section 6
SCALE: 3/32" = 1'-0"

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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

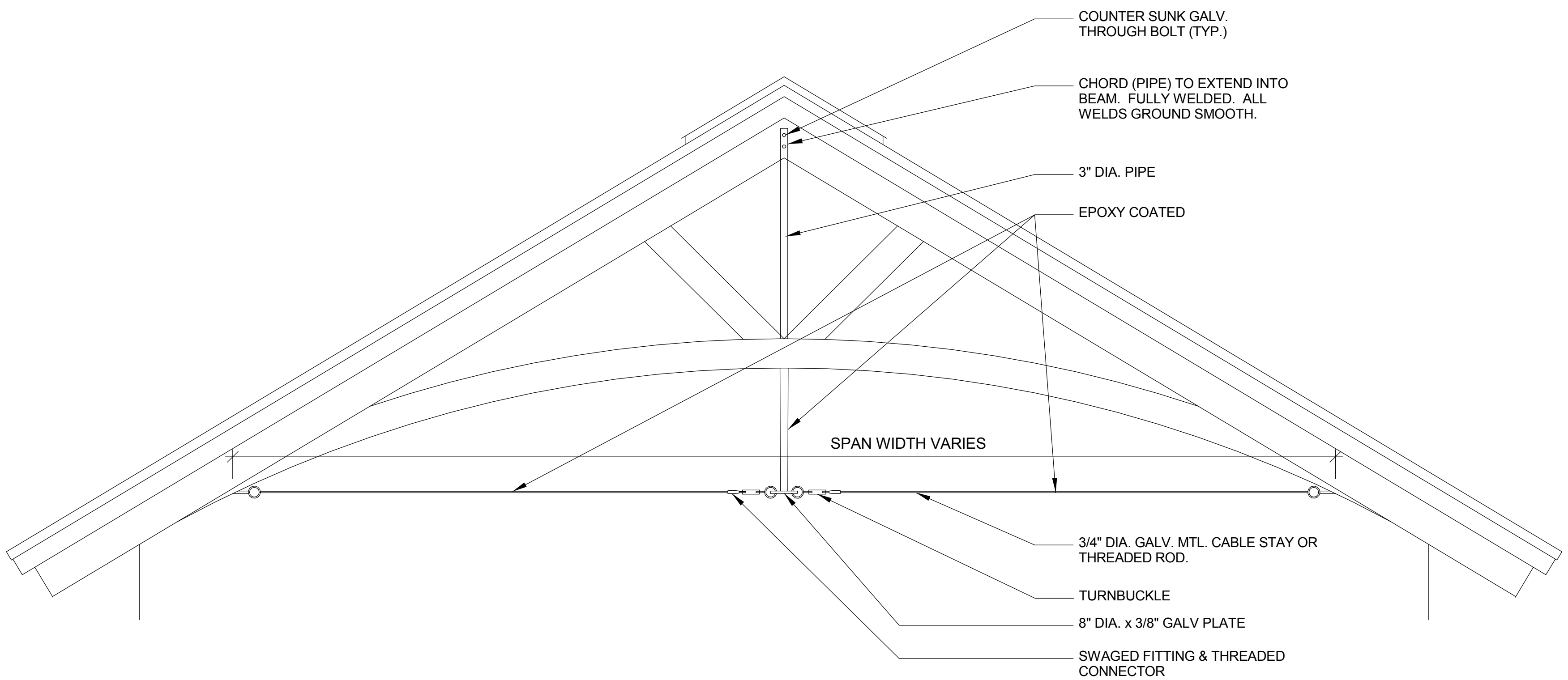
Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
BUILDING SECTIONS

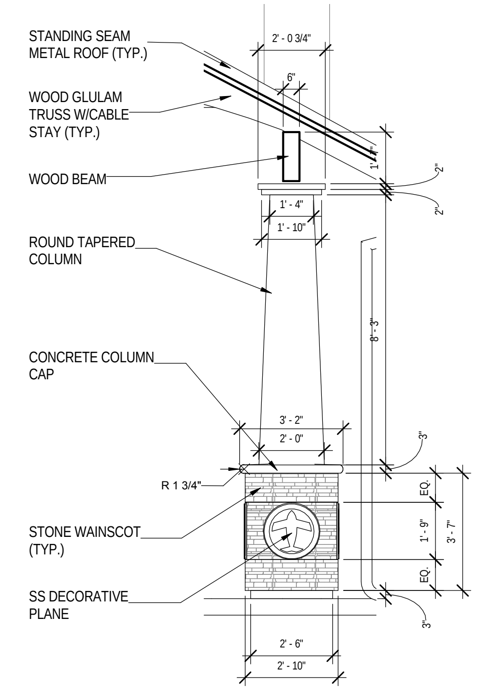
Project Number:	Division:
No. 161641	Architecture

Date: November 15, 2017

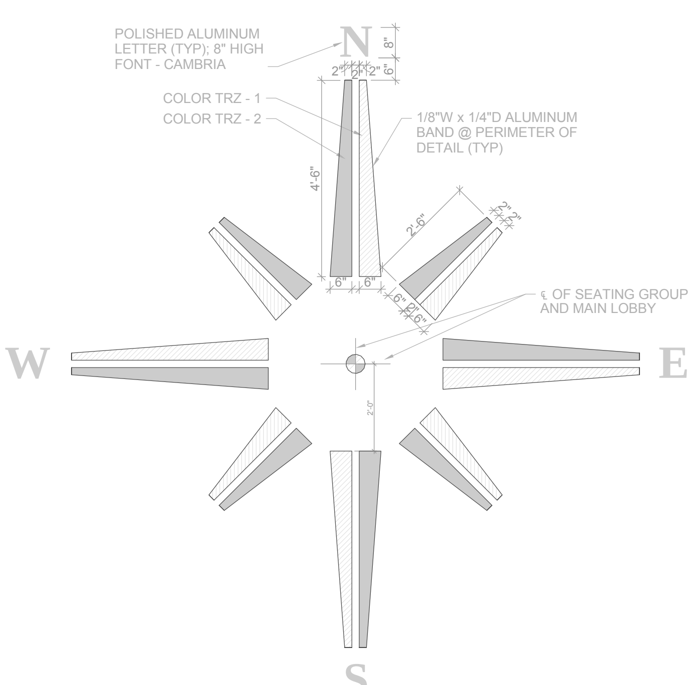
Drawing Number:
A-301



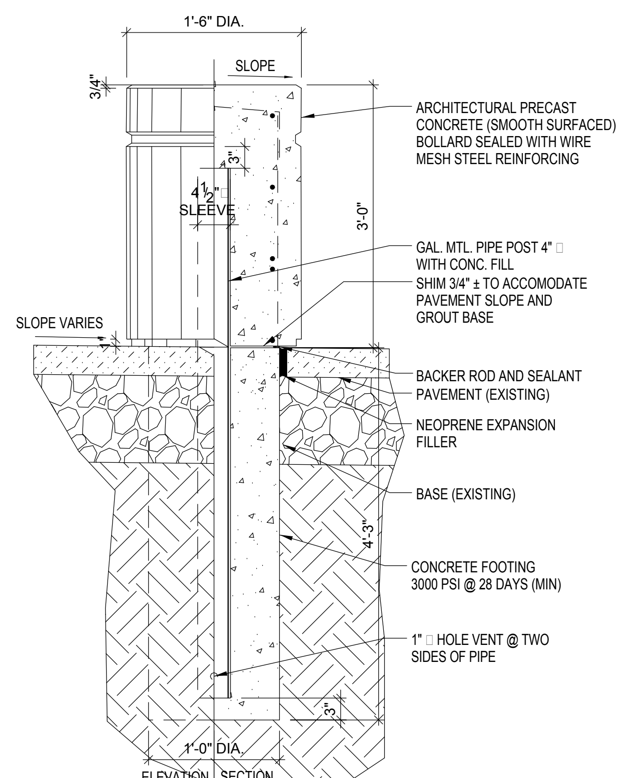
1 GLULAM BEAN CHORD DETAIL
SCALE: 3/8" = 1'-0"



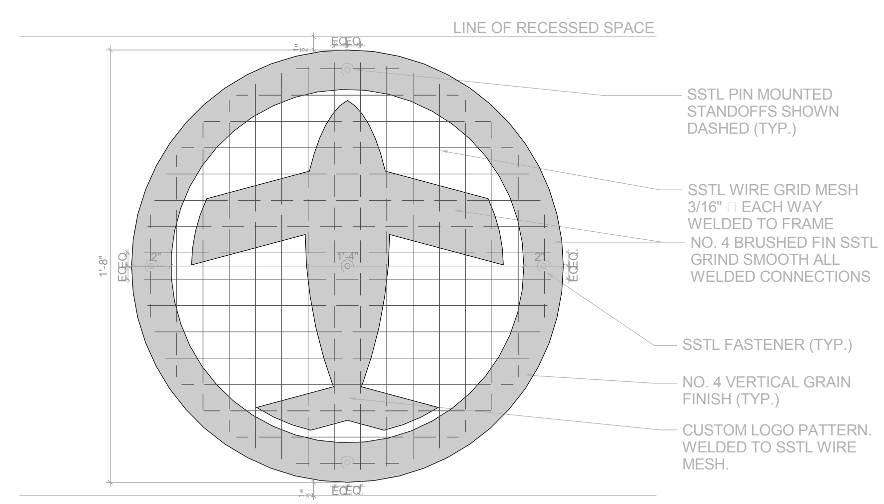
2 COLUMN DETAIL
SCALE: 3/8" = 1'-0"



3 COMPASS DETAIL
SCALE: 1/2" = 1'-0"



4 BOLLARD DETAIL
SCALE: 1" = 1'-0"



5 SS PLANE DETAIL
SCALE: 3" = 1'-0"

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No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

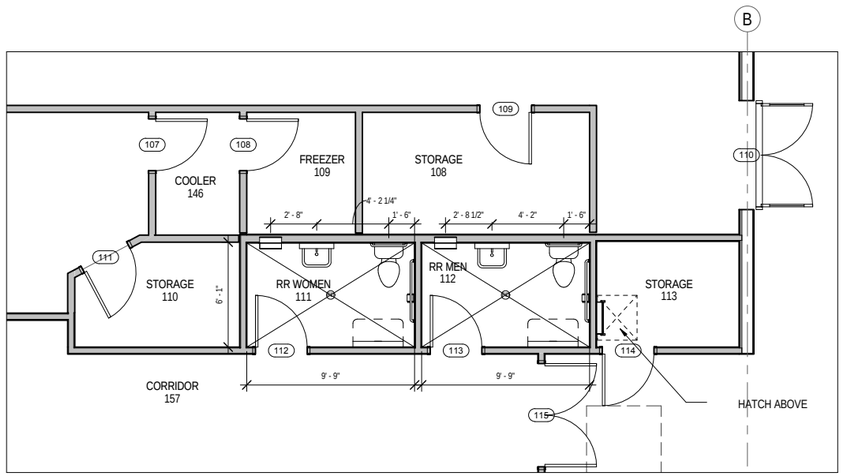
Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
DETAIL SECTION VIEWS

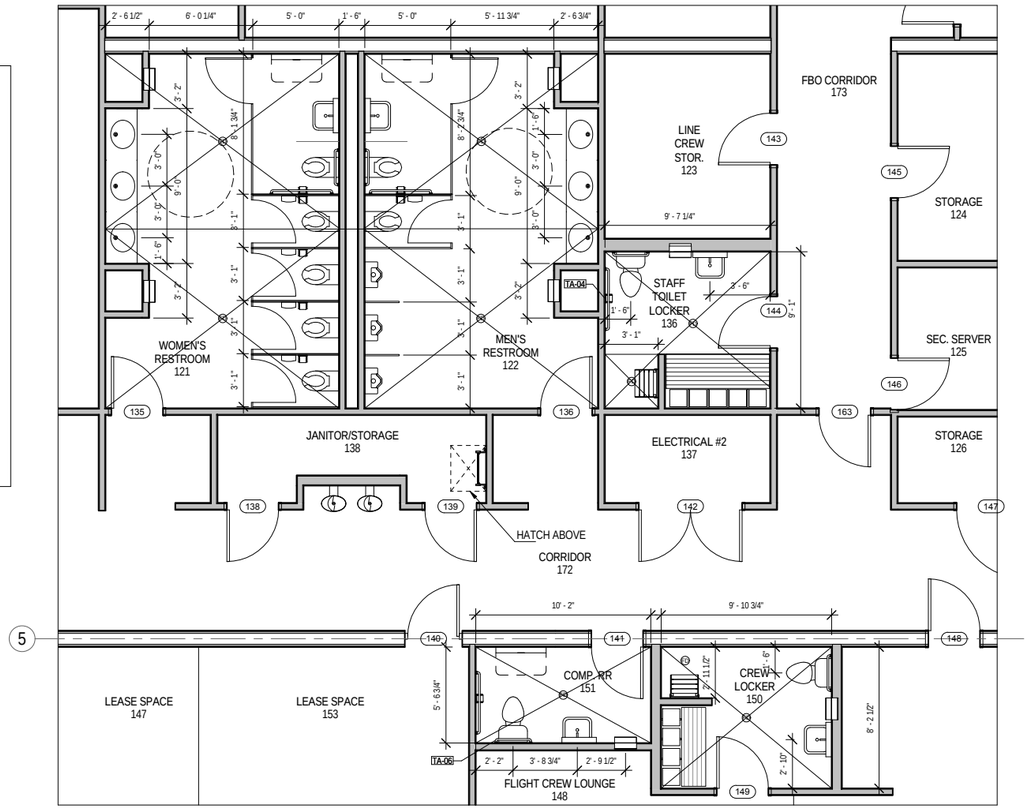
Project Number:	Division:
No. 161641	Architecture

Date: November 15, 2017

Drawing Number:
A-501



1 ENLARGED RESTROOM AREA - WEST
SCALE: 1/4" = 1'-0"



5

3 ENLARGED RESTROOM AREA - EAST
SCALE: 1/4" = 1'-0"

NOTES:
1.REFER TO ACCESSORY SCHEDULE ON SHEET A-002 & SPECIFICATIONS FOR ACCESSORIES
2. PROVIDE TILE WALLS AT ALL WET WALLS

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Key Plan:

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NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
ENLARGED FLOOR PLAN - RESTROOMS

Project Number:	Division :
No. 161641	Architecture

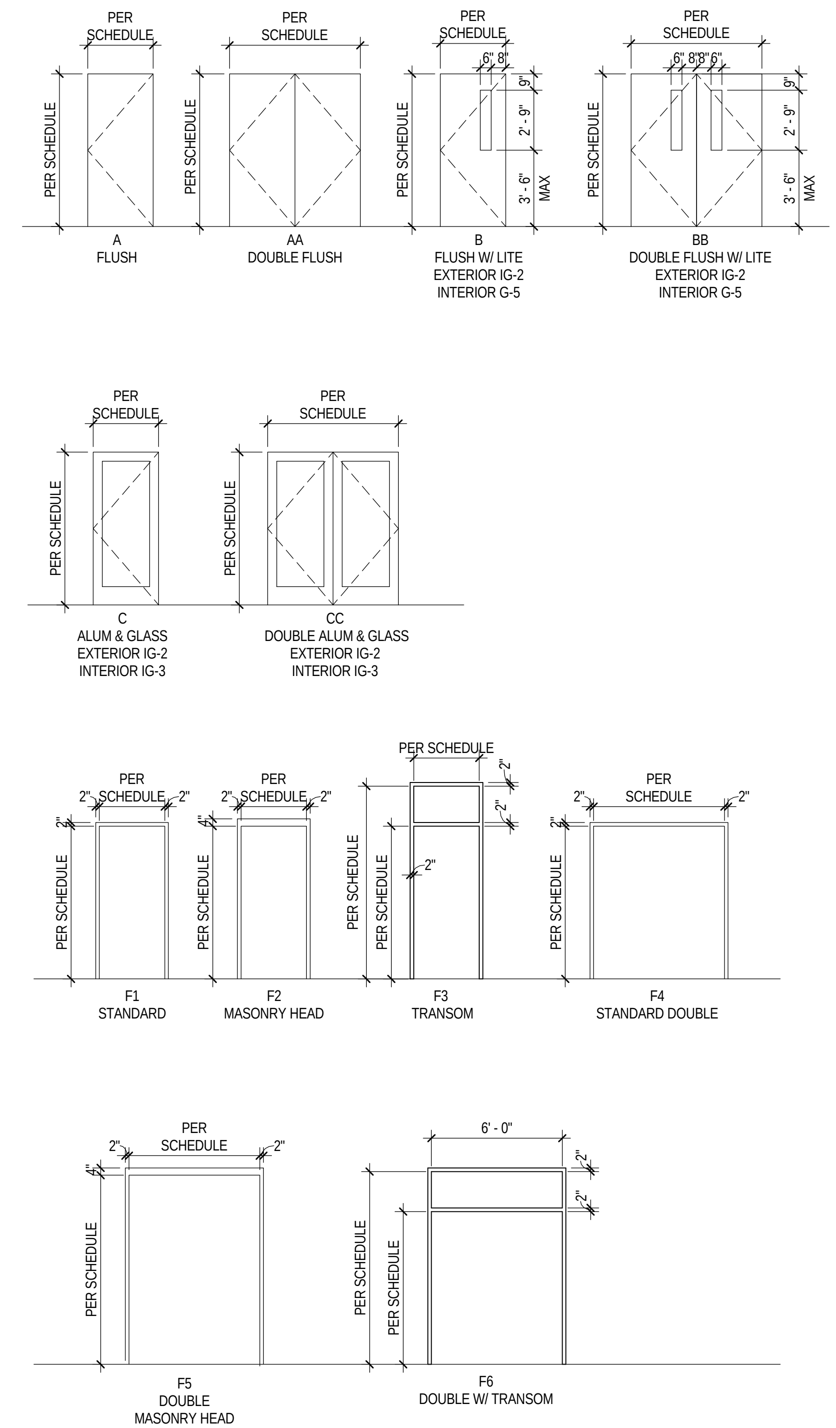
Date: November 15, 2017

Drawing Number:
A-502

161641 Door Schedule

DOOR NUMBER	TO ROOM NUMBER	TO ROOM NAME	SIZE HEIGHT	SIZE WIDTH	SIZE THICKNESS	Fire Rating	DOOR FINISH	TYPE	DETAILS HEAD	DETAILS JAMB	HARDWARE SET	COMMENTS
100	171	FUTURE RESTAURANT	7' - 0"	6' - 0"	1 3/4"	N/A	Aluminum	CC	6	5	01	
101			7' - 0"	3' - 0"	2"		Metal - Steel	B	6	5	05	
102	144	STORAGE	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	14	
104	143	KITCHEN OFFICE	7' - 0"	3' - 0"	1 3/4"		Wood	B	2	1	18	
105	171	FUTURE RESTAURANT	7' - 0"	3' - 0"	1 3/4"		Wood	B	2	1	23	
106A	171	FUTURE RESTAURANT	7' - 0"	6' - 0"	1 3/4"		Wood	AA	2	1	06	
106B	171	FUTURE RESTAURANT	7' - 0"	6' - 0"	1 3/4"		Wood	AA	2	1	06	
106C												FOLDING DOOR - PER MANUFACTURER
106D												FOLDING DOOR - PER MANUFACTURER
107	145	KITCHEN	7' - 0"	3' - 0"	1 3/4"		Metal - Steel	A	2	1	19	
108	146	COOLER	7' - 0"	3' - 0"	1 3/4"		Metal - Steel				19	PER MANUFACTURER
109	108	STORAGE	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	14	
110	169	MAIN LOBBY	7' - 0"	6' - 0"	1 3/4"	45 MIN	Aluminum	CC	4	3	06	
111	110	STORAGE	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	14	
112	111	RR WOMEN	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	21	
113	112	RR MEN	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	21	
114	113	STORAGE	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	14	
115	169	MAIN LOBBY	7' - 0"	6' - 0"	1 3/4"		Wood	BB	2	1	12	
116	114	ELECTRICAL	7' - 0"	5' - 0"	1 3/4"		Wood	A	2	1	07	
117	157	CORRIDOR	7' - 0"	6' - 0"	1 3/4"		Wood	CC	6	5	03	
118	115	RENTAL CAR OFF. #1	7' - 0"	3' - 0"	1 3/4"	45 MIN	Wood	A	2	1	18	
119	116	RENTAL CAR OFF. #2	7' - 0"	3' - 0"	1 3/4"	45 MIN	Wood	A	2	1	18	
120	117	RENTAL CAR OFF. #3	7' - 0"	3' - 0"	1 3/4"	45 MIN	Wood	A	2	1	18	
121	118	LEASE SPACE	7' - 0"	3' - 0"	1 3/4"	45 MIN	Wood	A	4	3	16	
122	115	RENTAL CAR OFF. #1	6' - 8 1/4"	3' - 2 3/4"			Aluminum	C			02	STOREFRONT
123	116	RENTAL CAR OFF. #2	6' - 8 1/4"	3' - 2 3/4"			Aluminum	C			02	STOREFRONT
124	117	RENTAL CAR OFF. #3	6' - 8 1/4"	3' - 2 3/4"			Aluminum	C			02	STOREFRONT
126	141	FBO LINE CREW SERV.	7' - 0"	3' - 0"	2"		Metal - Steel	B	6	5	04	
127	173	FBO CORRIDOR	7' - 0"	3' - 0"	1 3/4"	45 MIN	Wood	A	2	1	13	
128	140	OFFICE	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	18	
129	141	FBO LINE CREW SERV.	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	18	
130	142	OFFICE	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	18	
131	128	FBO MANAGER	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	18	
132	158	STOR.	7' - 0"	5' - 0"	1 3/4"		Wood	A	2	1	09	
133	127	SERVER	7' - 0"	6' - 0"	1 3/4"		Wood	A	2	1	10	
135	121	WOMEN'S RESTROOM	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	22	
136	122	MEN'S RESTROOM	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	22	
137	119	ATM	7' - 0"	3' - 0"	1 3/4"		Metal - Steel	A			20	PER MANUFACTURER
138	138	JANITOR/STORAGE	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	14	
139	138	JANITOR/STORAGE	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	14	
140	153	LEASE SPACE	7' - 0"	3' - 0"	1 3/4"	45 MIN	Wood	A	4	3	16	
141	151	COMP. RR	7' - 0"	3' - 0"	1 3/4"		Wood	A	4	3	21	
142	137	ELECTRICAL #2	7' - 0"	6' - 0"	1 3/4"		Wood	A	2	1	08	
143	123	LINE CREW STOR.	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	14	
144	136	STAFF TOILET LOCKER	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	21	
145	124	STORAGE	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	14	
146	125	SEC. SERVER	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	14	
147	126	STORAGE	7' - 0"	4' - 0"	1 3/4"		Wood	A	2	1	15	
148	159	FLIGHT PLANNING	7' - 0"	3' - 0"	1 3/4"	45 MIN	Wood	A	4	3	17	
149	150	CREW LOCKER	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	21	
150	149	QUIET ROOM	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	21	
151	129	SECURITY OPS.	7' - 0"	3' - 0"	2"		Metal - Steel	A	6	5	05	
152	174	ADMIN. CORRIDOR	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	16	
153	130	AIRPORT MANAGER	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	18	
154	134	PLAN ROOM	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	20	
155	131	OFFICE	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	18	
156	132	OFFICE	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	18	
157	152	FILE COPY	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	14	
158	135	CONFERENCE ROOM	7' - 0"	3' - 0"	1 3/4"		Wood	A	2	1	18	
159	161	RECP.	7' - 0"	3' - 0"	2"	45 MIN	Wood	C	4	3	17	
160	172	CORRIDOR	7' - 0"	3' - 0"	2"		Aluminum	C	2	1	05	
163	173	FBO CORRIDOR	7' - 0"	3' - 0"	1 3/4"	45 MIN	Wood	A	2	1	13	
164	147	LEASE SPACE	7' - 0"	6' - 0"	1 3/4"	45 MIN	Wood	BB	4	3	12	
165	118	LEASE SPACE	7' - 0"	6' - 0"	1 3/4"	45 MIN	Wood	BB	4	3	12	
167	118	LEASE SPACE	6' - 8 1/4"	2' - 10 3/4"			Aluminum	C			02	STOREFRONT
168	147	LEASE SPACE	6' - 8 1/4"	2' - 10 3/4"			Aluminum	C			02	STOREFRONT
169	169	MAIN LOBBY	6' - 8 1/4"	7' - 10 1/4"			Aluminum	CC			01	STOREFRONT
170A	170	APRON VESTIBULE	8' - 0"	8' - 0"	3"		Aluminum	CC			24	SLIDING DOOR
170B	170	APRON VESTIBULE	8' - 0"	8' - 0"	3"		Aluminum	CC			24	SLIDING DOOR
171	120	CONFERENCE ROOM	6' - 10 3/4"	5' - 8"			Aluminum	CC			01	INTERIOR STOREFRONT
173							Aluminum					GRILL DOOR - PER MANUFACTURER
174	169	MAIN LOBBY	7' - 0"	6' - 0"	1 3/4"	45 MIN	Aluminum	CC	4	3	06	

NOTES:
1. ALL INTERIOR DOORS TO BE STAINED WOOD.
2. ALL INTERIOR GLAZING TO BE TEMPERED GLASS



1 DOOR & FRAME TYPES
SCALE: 1/4" = 1'-0"

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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

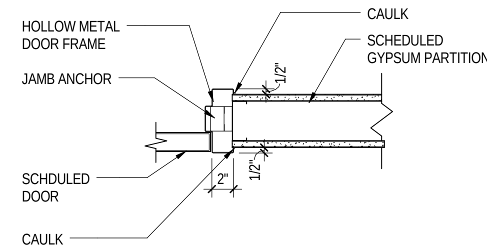
Project Name: GENERAL AVIATION TERMINAL BUILDING

Drawing Name: DOOR SCHEDULE, DOOR AND FRAME TYPES

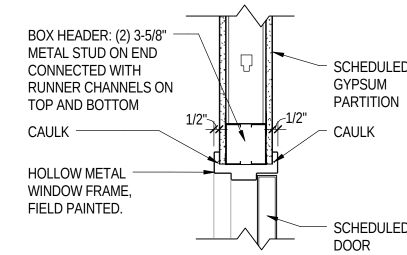
Project Number: No. 161641 | Division: Architecture

Date: November 15, 2017

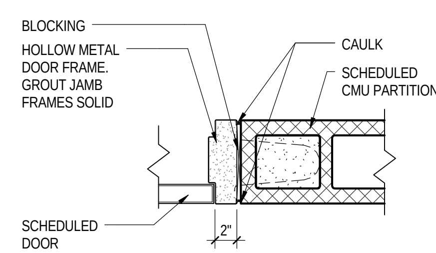
Drawing Number: A-601



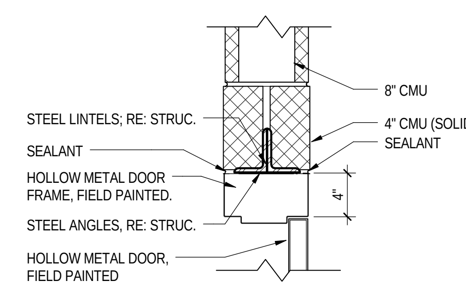
1 J1 - HOLLOW METAL FRAME JAMB DETAIL (INTERIOR)
SCALE: 1 1/2" = 1'-0"



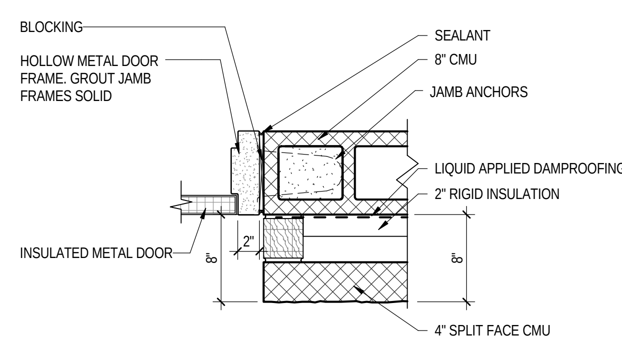
2 H1 - HOLLOW METAL FRAME HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



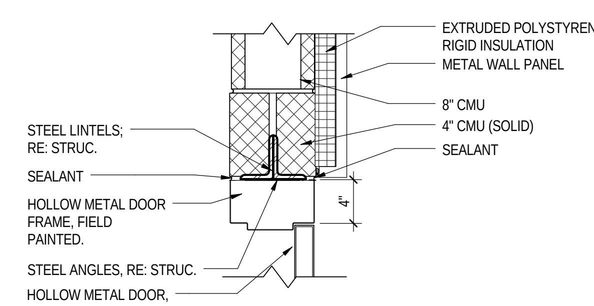
3 J1 - HOLLOW METAL FRAME JAMB DETAIL (INTERIOR)
SCALE: 1 1/2" = 1'-0"



4 H2 - HOLLOW METAL FRAME HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



5 J2A - HOLLOW METAL FRAME JAMB DETAIL (EXTERIOR)
SCALE: 1 1/2" = 1'-0"



6 H2A - HOLLOW METAL FRAME HEAD DETAIL
SCALE: 1 1/2" = 1'-0"

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Key Plan:

Design Criteria Package

NOVEMBER 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
CH	KGL	CH

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
DOOR & JAMB DETAILS

Project Number: No. 161641
Division: Architecture
Date: November 15, 2017

Drawing Number:
A-602

DESIGN CRITERIA

DC-1 BUILDING CODE: FLORIDA BUILDING CODE 6TH EDITION (2017)

DC-2 LATERAL LOAD DESIGN CRITERIA

A. RISK CATEGORY	IV
B. WIND DESIGN CRITERIA	
1. ULTIMATE WIND SPEED (Vult)	138 MPH
2. EXPOSURE CATEGORY	C
3. INTERNAL PRESSURE COEFFICIENT	+/- 0.18
4. COMPONENTS AND CLADDING	RE: S-003
C. SEISMIC DESIGN CRITERIA	
1. SEISMIC IMPORTANCE FACTOR (Ie)	1.5
2. SITE CLASS	D
3. SEISMIC DESIGN CATEGORY	C
4. SHORT PERIOD SPECTRAL ACCELERATION (Ss)	= 0.079
5. ONE SECOND SPECTRAL ACCELERATION (S1)	= 0.042
6. SHORT PERIOD RESPONSE ACCELERATION (Sds)	= 0.084
7. ONE SECOND RESPONSE ACCELERATION (Sd1)	= 0.066

DC-3 GRAVITY LOADS

A. DEAD LOADS	
1. ROOF	25 PSF
A. MINIMUM (FOR UPLIFT)	12 PSF
B. LIVE LOADS	
1. ROOF	20 PSF MINIMUM
2. GROUND FLOOR	100 PSF
C. SNOW LOADS	
1. GROUND SNOW LOAD (PG)	0 PSF
D. CONSTRUCTION LOADS	
1. NOT TO EXCEED THE DESIGN LIVE LOADS.	

DC-4 FOUNDATION DESIGN CRITERIA

A. FOUNDATION DESIGN IS BASED UPON THE FOLLOWING SOIL PARAMETERS:
   1. NET ALLOWABLE SOIL BEARING PRESSURE:
      A. SPREAD AND CONTINUOUS FOOTINGS = TBD
B. LATERAL EARTH PRESSURE PARAMETERS:
   1. ACTIVE PRESSURE (KA) = TBD
   2. AT-REST PRESSURE (KO) = TBD
   3. PASSIVE EARTH PRESSURE (KP) = TBD
   4. COEFFICIENT OF FRICTION (U) = TBD
   5. TYP MODULUS OF SUB-GRADE REACTION (KS) = TBD
C. MINIMUM FOOTING DEPTH: 24 INCHES

GENERAL

G-1 THE TERM "CONTRACTOR" USED THROUGHOUT THE DESIGN CRITERIA PACKAGE DOCUMENTS (DCP) SHALL MEAN THE "DESIGN BUILDER" FOR THE PROJECT.

THE DESIGN CRITERIA PACKAGE DOCUMENTS SHALL INCLUDE ALL DRAWINGS, SPECIFICATIONS AND CONTRACT REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROPOSED GA TERMINAL AND RELATED WORK.

THE DESIGN CRITERIA PACKAGE DOCUMENTS (DRAWINGS & SPECIFICATIONS) SHALL ESTABLISH THE BASE LINE STANDARD FOR THE PROJECT. THE DESIGN BUILDER MAY SUBMIT SUBSTITUTIONS FOR CONSIDERATION BY THE OWNER & THE DESIGN CRITERIA PROFESSIONAL AS OUTLINED IN THE DIVISION 01 SPECIFICATION & THE PROCUREMENT DOCUMENTS.

G-2 METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND IMPLEMENTING THE NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

G-3 TEMPORARY BRACING, SHEETING, SHORING, ETC, REQUIRED TO ENSURE THE STRUCTURAL INTEGRITY/STABILITY OF THE EXISTING BUILDINGS, SIDEWALKS, UTILITIES, ETC, DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE CONTRACTOR.

G-4 IMPLEMENTATION OF JOB SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

G-5 SLEEVES OR BLOCK-OUTS REQUIRED FOR PASSAGE OF DUCTWORK, PIPING, DRAINS, CONDUIT, ETC, IN ADDITION TO ANCHORS AND HANGERS REQUIRED FOR EQUIPMENT AND PIPING AND UNDER-SLAB UTILITIES ARE NOT SPECIFICALLY, NOR GENERALLY, INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING SUCH REQUIREMENTS PRIOR TO FABRICATION OR ERECTION OF THE STRUCTURE. PENETRATIONS OF STRUCTURAL MEMBERS ARE SUBJECT TO APPROVAL BY THE ENGINEER.

GENERAL CONT.

G-6 DIMENSIONS AND INSTALLATION DETAILS OF PURCHASED EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH THE SUPPORTING STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING SUCH REQUIREMENTS FROM SUBCONTRACTORS AND EQUIPMENT SUPPLIERS ALONG WITH COORDINATING THE LOCATIONS AND DETAILS FOR THESE ITEMS PRIOR TO FABRICATION OR ERECTION OF THE SUPPORTING STRUCTURE. ANY CONFLICTS BETWEEN THESE ITEMS AND THE BUILDING STRUCTURE IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

G-7 THE STRUCTURAL DRAWINGS GOVERN THE WORK FOR STRUCTURAL FEATURES, UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ON PLANS AND DETAILS ARE TO GOVERN THE STRUCTURAL WORK. THE CONTRACTOR IS TO REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND DETAILS NOT PROVIDED. DIMENSIONAL CONFLICTS IN THE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

G-8 IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS, AND DRAWINGS, THE MOST RIGID REQUIREMENTS AS DETERMINED BY THE ENGINEER WILL GOVERN.

G-9 WORK NOT INDICATED ON A PART OF THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING LOCATIONS, IS TO BE REPEATED.

G-10 DETAILS DESIGNATED AS "TYPICAL DETAILS," APPLY GENERALLY TO THE DRAWINGS IN AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS.

G-11 SHOP DRAWINGS:
   A. SHOP DRAWINGS FOR ALL MATERIALS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD & DESIGN CRITERIA PROFESSIONAL FOR REVIEW PRIOR TO THE START OF FABRICATION OR COMMENCEMENT OF WORK PER THE PROJECT SPECIFICATIONS.
   B. SHOP DRAWINGS MUST BE CHECKED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION. THE CONTRACTOR'S STAMP OF APPROVAL WILL CONSTITUTE CERTIFICATION THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
   C. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED.
   D. CHANGES TO SHOP DRAWINGS THAT ARE RE-SUBMITTED MUST BE CLOUDED OR SOMEHOW INDICATE THAT A CHANGE HAS BEEN MADE TO PREVIOUSLY ISSUED AND REVIEWED DRAWING.
   E. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD AND DESIGN CRITERIA PROFESSIONAL WITH WRITTEN NOTICE OF DEVIATIONS OF ANY TYPE FROM THE REQUIREMENTS OF THE DESIGN CRITERIA DOCUMENTS. THE NOTICE MUST BE RECEIVED PRIOR TO SHOP DRAWING SUBMITTAL. THE CONTRACTOR REMAINS LIABLE FOR ANY DEVIATION UNLESS REVIEWED BY THE ENGINEER OF RECORD AND DESIGN CRITERIA PROFESSIONAL AND ACKNOWLEDGED IN WRITING, PRIOR TO THE RECEIPT OF THE SHOP DRAWINGS.

FOUNDATIONS

F-1 FOUNDATIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CRITERIA ESTABLISHED BY A GEOTECHNICAL REPORT TO BE PROVIDED BY THE CONTRACTOR.

F-2 FOUNDATIONS ARE TO BE PLACED ON UNDISTURBED SOIL OR COMPACTED FILL CONFORMING TO THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT (MAXIMUM FILL LIFT IS AS NOTED IN THE GEOTECHNICAL REPORT).

F-3 THE CONTRACTOR IS TO RETAIN THE SERVICES OF A PROFESSIONAL GEOTECHNICAL ENGINEER, SUBJECT TO THE APPROVAL OF THE ENGINEER OF RECORD, TO VERIFY THAT THE MATERIAL ON WHICH FOUNDATIONS BEAR HAS AT LEAST THE CAPACITY AS NOTED IN THE DESIGN CRITERIA. THE GEOTECHNICAL ENGINEER IS TO MAKE RECOMMENDATIONS FOR IMPROVING THE AREAS THAT DO NOT MEET THE DESIGN CRITERIA.

F-4 ELEVATIONS SHOWN ON THE DRAWINGS AT WHICH FOUNDATIONS BEAR ARE APPROXIMATE AND MAY VARY TO SUIT SUBSURFACE SOIL CONDITIONS. STEP-IN FOOTING LOCATIONS SHOWN ON THE DRAWINGS ARE TO BE FIELD VERIFIED AND ADJUSTED AS REQUIRED SO THAT FOUNDATIONS BEAR ON MATERIAL OF AT LEAST THE CAPACITY NOTED ABOVE. ALL EXTERIOR FOOTINGS ARE TO BEAR A MINIMUM OF 12" BELOW FINISHED GRADE.

FOUNDATIONS CONT.

F-5 PRIOR TO PLACING CONCRETE, ANY WATER PRESENT IS TO BE PUMPED OUT FROM THE BOTTOM OF EXCAVATIONS.

F-6 CONCRETE SLABS ON GRADE HAVE BEEN DESIGNED TO BEAR ON PROPERLY COMPACTED SUB-GRADE SOILS AS PER THE DESIGN CRITERIA. THE SUB-BASE MATERIAL BENEATH THE SLAB-ON-GRADE IS TO CONFORM TO THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND BE COMPACTED IN ACCORDANCE WITH THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT (MAXIMUM FILL LIFT IS AS NOTED IN THE GEOTECHNICAL REPORT).

F-7 NO BACKFILLING AGAINST WALLS IS TO BE DONE UNTIL THE SLABS BOTTOM AND JOISTS AT THE TOP HAVE BEEN PLACED OR ADEQUATE SHORING HAS BEEN PROVIDED. WALLS AND GRADE BEAMS HAVING BACKFILL AGAINST BOTH SIDES ARE TO HAVE BACKFILL PLACED ON BOTH SIDES SIMULTANEOUSLY.

REINFORCED CONCRETE

C-1 REINFORCED CONCRETE WORK IS TO BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE- ACI 318" (LATEST EDITION) AND THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS- ACI 301" (LATEST EDITION).

C-2 MIXING, TRANSPORTING, PLACING AND TESTING OF CONCRETE IS TO BE DONE IN ACCORDANCE WITH ACI 301.

C-3 PRIOR TO CONCRETE PLACEMENT, THE CONTRACTOR MUST SUBMIT CONCRETE MIX DESIGNS FOR EACH TYPE OF CONCRETE TO BE USED, PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS TO THE ENGINEER OF RECORD & DESIGN CRITERIA PROFESSIONAL FOR REVIEW.

C-4 CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (F'C) AS INDICATED ON THE CONCRETE MATERIALS SCHEDULE ON DRAWING S-601. RE: CIVIL DRAWINGS FOR SITE CONCRETE.

C-5 THE SLUMP AT POINT OF PLACEMENT IS NOT TO EXCEED 4"+/-1 AND THE WATER/CEMENT RATIO IS NOT TO EXCEED 0.45. IF ADDITIONAL SLUMP (UP TO 8") IS DESIRED FOR PUMPING, A SUPER-PLASTICIZER ADMIXTURE MAY BE ADDED.

C-6 CONCRETE EXPOSED TO WEATHER AND FREEZE/THAW SHALL BE AIR ENTRAINED FROM 5% TO 7% IN ACCORDANCE WITH ACI RECOMMENDATIONS. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260.

C-7 CONCRETE TO BE NORMAL WEIGHT CONCRETE (145 PCF) WITH CEMENT CONFORMING TO ASTM C 150, TYPE I.

C-8 REINFORCEMENT:
   A. DEFORMED BARS: ASTM A 615/A 615M, GRADE 60
   B. WELDED WIRE REINFORCEMENT: ASTM A 1064/A 1064M

C-9 REINFORCEMENT IS TO BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE ACI "DETAILING MANUAL NO. SP-66" (LATEST EDITION).

C-10 SPLICES (LAPS) OF REINFORCING BARS SHALL BE CLASS 'B' TENSION LAPS PER ACI 318 (LATEST EDITION) UNLESS NOTED OTHERWISE.

C-11 PROVIDE ADEQUATE CONCRETE COVER IN ACCORDANCE WITH THE REQUIREMENTS AS SET FORTH BY ACI 318.

C-12 REINFORCEMENT IS TO BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, STIRRUPS, OR CHAIRS WILL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS WHERE NECESSARY DURING CONSTRUCTION.

C-13 CONTINUOUS REINFORCING BARS TO BE TURNED AND LAPPED AT CORNERS AND INTERSECTIONS OF WALLS AND FOOTINGS. HOOKED BARS TO HAVE STANDARD ACI HOOKS UNLESS NOTED OTHERWISE.

C-14 CONTINUOUS TOP BARS TO BE SPLICED AT MID-SPAN. CONTINUOUS BOTTOM BARS TO BE SPLICED AT CENTERLINE OF SUPPORTS (OR AS SHOWN ON DETAILS).

C-15 WELDED WIRE REINFORCEMENT IS TO BE SUPPLIED IN FLAT SHEETS ONLY. LAP WELDED WIRE REINFORCEMENT TWO FULL MESH LENGTHS AT SPLICES AND WIRE TOGETHER. WELDED WIRE REINFORCEMENT TO BE PLACED 1/4 OF THE SLAB THICKNESS FROM THE TOP OF SLABS UNLESS NOTED OTHERWISE.

C-16 CONCRETE SLABS TO BE CURED BY METHOD COMPATIBLE WITH SPECIFIED FLOOR FINISH. WHERE ACCEPTABLE USE A LIQUID MEMBRANE-CURING COMPOUND AT THE MANUFACTURERS RECOMMENDED COVERAGE. SAW JOINTS TO BE CUT AS SOON AS POSSIBLE WITHOUT RAVELING THE SURFACE.

REINFORCED CONCRETE CONT.

C-17 DIVIDE FLOOR SLABS-ON-GRADE INTO SEGMENTS BY MEANS OF EXPANSION, CONTROL AND CONSTRUCTION JOINTS AS REQUIRED BY THE ENGINEER OF RECORD.

C-18 SLAB-ON-GRADE CONSTRUCTION JOINTS TO BE PLACED ON COLUMN CENTERLINES UNO. CONTROL JOINTS TO BE PLACED AT EQUAL INTERVALS IN EACH DIRECTION AS INDICATED ON THE PLANS.

C-19 LEVELING GROUT TO BE NON-SHRINK, NON-METALLIC TYPE, FACTORY PREMIXED GROUT IN ACCORDANCE WITH ASTM C 1107, HAVING A MINIMUM COMPRESSIVE STRENGTH OF NOT LESS THAN 5000 PSI.

C-20 PROVIDE FINISHED SLAB-ON-GRADE WITH OVERALL VALUES OF:
   1. RECESSED SLAB AREAS FLATNESS SOF(F)=20 AND LEVELNESS SOF(L)=15 ALONG WITH LOCAL VALUES OF FLATNESS MLF(F)=12 AND LEVELNESS MLF(L)=9.
   2. ALL OTHER FLOOR AREAS: FLATNESS SOF(F)=35 AND LEVELNESS SOF(L)=25 ALONG WITH LOCAL VALUES OF FLATNESS MLF(F)=21 AND LEVELNESS MLF(L)=15.

C-21 SLEEVES, INSERTS, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES. DEPRESSIONS, CURBS AND OTHER EMBEDDED ITEMS TO BE PROVIDED FOR AS SHOWN ON THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND AS REQUIRED BY EQUIPMENT MANUFACTURERS. INSTALLATION OF THESE ITEMS TO BE COORDINATED AND PROVIDED FOR PRIOR TO PLACING CONCRETE.

C-22 ANCHOR RODS TO BE ASTM F 1554 FY=36 KSI MINIMUM, GALVANIZED, UNLESS NOTED OTHERWISE. ANCHOR BOLT EMBEDMENT SHALL BE AS INDICATED ON THESE STRUCTURAL DRAWINGS.

C-23 REFERENCE SPECIFICATIONS FOR VAPOR BARRIER & TERMITE TREATED SOIL ADDITIONAL REQUIREMENTS.

C-24 REFERENCE ARCHITECTURAL DRAWINGS FOR FLOOR AREAS WITH POLISHED CONCRETE FINISH. CONCRETE IN THESE AREAS TO BE INSTALLED IN ACCORDANCE WITH ACI 310R-13 GUIDE TO DECORATIVE CONCRETE.

PREFABRICATED WOOD TRUSSES

T-1 DESIGN, FABRICATION, CONSTRUCTION, AND ERECTION OF PREFABRICATED WOOD TRUSSES MUST CONFORM WITH:
   A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) AND TRUSS PLATE INSTITUTE (TPI) "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" (LATEST EDITION) AND TPI "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" (LATEST EDITION).

T-2 PRIOR TO FABRICATION, THE TRUSS MANUFACTURER IS TO SUBMIT TO THE DESIGN BUILDER'S ENGINEER AND DESIGN CRITERIA PROFESSIONAL FOR REVIEW THE FOLLOWING, PREPARED BY OR UNDER THE SUPERVISION OF, A PROFESSIONAL ENGINEER REGISTERED IN FLORIDA AND BEARING THE SEAL OF THE PROFESSIONAL ENGINEER:
   A. DESIGN CALCULATIONS INCLUDING DESIGN CRITERIA, REACTION FORCES, LOAD CAPACITIES AND CONNECTIONS.
   B. SHOP DRAWINGS SHOWING ERECTION PLANS, TRUSS LAYOUT, SHEAR TRUSSES, DIMENSIONS, DETAILS, CONNECTIONS, OPENING SIZES AND LOCATIONS.

T-3 TRUSS MANUFACTURER IS TO ARRANGE TRUSS WEB MEMBERS AS REQUIRED BY DESIGN, ARCHITECTURAL AND UTILITY REQUIREMENTS.
   A. TRUSS CONNECTOR PLATES TO BE MINIMUM 20 GAGE AND DESIGNED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE SPECIFICATIONS.

T-4 THE CONTRACTOR SHALL INSTALL PROPER ERECTION BRACING TO HOLD THE TRUSSES TRUE AND PLUMB AND IN SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND BRIDGING CAN BE SOLIDLY CONNECTED IN PLACE TO FORM A STRUCTURALLY SOUND FRAMING SYSTEM. ERECTION AND PERMANENT BRACING IS TO BE INSTALLED AND COMPONENTS PERMANENTLY FASTENED BEFORE APPLICATION OF ANY LOADS TO THE TRUSSES. WOOD TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH BRACING WOOD TRUSSES COMMENTARY BWT-(LATEST EDITION) OR HFT-(LATEST EDITION), AS PUBLISHED BY THE TRUSS PLATE INSTITUTE (TPI).

T-5 PERMANENT BRACING SHALL BE INSTALLED IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS, THE TRUSS MANUFACTURER'S DESIGN, AND THE TRUSS PLATE INSTITUTE'S REQUIREMENTS. INDIVIDUAL TRUSS MEMBER RESTRAINT AND DIAGONAL BRACING FOR TRUSS MEMBERS NOT SHOWN SHALL BE IN ACCORDANCE WITH BUILDING COMPONENT SAFETY INFORMATION (BCSI) B3 PERMANENT RESTRAINT/BRACING OF CHORDS AND WEB MEMBER.

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FLORIDA LICENSE # AA 00003054

Key Plan:

Design Criteria Package (DCP) - Final Review
November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
AHW	DYH	JJS

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
STRUCTURAL DESIGN CRITERIA, & GENERAL NOTES

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:
S-001

STRUCTURAL STEEL

S-1 STRUCTURAL STEEL WORK IS TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" (FOURTEENTH EDITION) AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

S-2 STRUCTURAL STEEL, UNLESS NOTED OTHERWISE, TO BE NEW STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A 6/A 6M AND AS INDICATED ON THE STEEL MATERIAL SCHEDULE ON DRAWING S-601.

S-3 PRIOR TO FABRICATION, THE STEEL FABRICATOR IS TO SUBMIT TO THE DESIGN BUILDER'S ENGINEER AND DESIGN CRITERIA PROFESSIONAL FOR REVIEW THE FOLLOWING:
- A. DESIGN CALCULATIONS OF STRUCTURAL STEEL CONNECTIONS, PREPARED BY OR UNDER THE SUPERVISION OF, A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND BEARING THE SEAL OF THE PROFESSIONAL ENGINEER.
- B. SHOP DRAWINGS SHOWING ERECTION PLANS, PIECE DRAWINGS, AND CONNECTION DETAILS.

S-4 THE STRUCTURAL STEEL FABRICATOR, AND/OR GENERAL CONTRACTOR, MUST VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AT THE SITE. ALL DISCREPANCIES FOUND ARE TO BE REPORTED TO THE ENGINEER PRIOR TO PREPARATION OF SHOP DRAWINGS. SHOP DRAWINGS ARE TO INCLUDE ALL FIELD MEASUREMENTS AND CONDITIONS.

S-5 STRUCTURAL STEEL FABRICATOR IS TO PROVIDE FOR VERTICAL AND HORIZONTAL FIELD ADJUSTMENT OF ALL SUPPORT ASSEMBLIES.

S-6 CUTS, HOLES, COPING, ETC REQUIRED FOR OTHER TRADES MUST BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN THE FIELD WILL NOT BE PERMITTED.

S-7 FABRICATE AND INSTALL BEAMS WITH NATURAL CAMBER UP UNLESS CAMBER IS NOTED ON THE DRAWINGS.

S-8 BOLTED CONNECTIONS TO BE MADE ACCORDING TO AISC TABLE 10-1 OR 10-2 - DOUBLE ANGLE CONNECTIONS. THE MINIMUM DEPTH OF THE CONNECTION MUST BE MORE THAN 67% OF THE BEAM DEPTH EXCEPT THAT BEAMS FRAMING TO COLUMNS TO HAVE FULL DEPTH CONNECTIONS USING 3/8" MINIMUM CONNECTION ANGLES OR PLATES.
- A. NON-COMPOSITE BEAM CONNECTIONS TO BE DESIGNED FOR ONE HALF THE UNIFORM LOAD CAPACITY OF THE BEAM AS TABULATED BY AISC UNLESS HIGHER LOADS ARE INDICATED ON THE DRAWINGS.

S-9 UNLESS OTHERWISE NOTED, STRUCTURAL STEEL CONNECTIONS TO BE SHOP WELDED AND FIELD BOLTED.
- A. BOLTS: 3/4 DIAMETER ASTM A 325 UNO WITH MATCHING WASHERS AND HEAVY HEX NUTS.
- B. ALL WELDS SHALL BE ¼" FILLET WELDS UNLESS NOTED OTHERWISE.

S-10 POST INSTALLED ANCHORS HAVE BEEN DESIGNED WITH HILTI ANCHORS (NOTED BELOW) AS THE BASIS OF DESIGN. PROVIDE ANY APPROPRIATE ANCHOR WITH SIZE AND FINISH AS NOTED AND EQUIVALENT SHEAR AND TENSION CAPACITIES AFTER MODIFICATION DUE TO EMBEDMENT, SPACING AND EDGE DISTANCES. OTHER AVAILABLE MANUFACTURERS INCLUDE SIMPSON, ITW RED HEAD AND POWERS FASTENERS. INSTALL ANCHORS PER THE MANUFACTURER'S INSTRUCTIONS/RECOMMENDATIONS.
- A. EXPANSION ANCHORS: KWIK BOLT 3
- B. SLEEVE ANCHORS: HLC SLEEVE ANCHOR
- C. ADHESIVE ANCHORS: HIT HY-200/HIT-ICE
- D. SCREEN TUBE ANCHORS: HIT HY-20

S-11 SUBSTITUTION OF EXPANSION ANCHORS FOR EMBEDDED ANCHORS SHOWN ON THE DRAWINGS WILL NOT BE PERMITTED.

S-12 WELDING TO BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE-ANSI/AWS D1.1/D1.1M" (LATEST EDITION). USE E70XX ELECTRODES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

S-13 HEADED SHEAR STUDS CONNECTORS TO CONFORM TO ASTM A 108, GRADE 1015 OR 1020, COLD-FINISHED CARBON STEEL.

STRUCTURAL STEEL CONT.

S-14 PAINT AND PROTECTION:
- A. STRUCTURAL STEEL, UNLESS INDICATED OTHERWISE, TO BE SHOP CLEANED PER SSPC SP3 AND PAINTED ONE SHOP COAT OF FABRICATOR'S STANDARD RUST INHIBITING PRIMER. TOUCH UP AFTER ERECTION.
- B. DO NOT PAINT STEEL WHERE ENCASED WITH CONCRETE, OR AT FIELD WELD AREAS.
- C. DO NOT PAINT THE TOP FLANGE OF BEAMS TO RECEIVE COMPOSITE SHEAR CONNECTORS.
- D. DO NOT PAINT STRUCTURAL STEEL TO BE FIREPROOFED. SHOP CLEAN PER SSPC SP3.
- E. EXPOSED STEEL TO BE PRIMED ONLY.
- F. EXPOSED STRUCTURAL STEEL FOR EXTERIOR APPLICATIONS, EQUIPMENT PLATFORMS, LOOSE ANGLE LINTELS ETC, TO BE HOT DIPPED GALVANIZED G90 PER ASTM A-123
- G. GALVANIZED FASTENERS AND ACCESSORIES TO BE HOT DIPPED GALVANIZED PER ASTM A153/A153M.
- H. REPAIR DAMAGE TO GALVANIZED COATINGS USING ASTM A780 ZINC RICH PAINT.
- I. PROVIDE MINIMUM 3" CONCRETE COVER FOR ALL STEEL BELOW GRADE.

OPEN WEB STEEL JOISTS

J-1 DESIGN, FABRICATION AND ERECTION OF OPEN WEB STEEL JOISTS MUST CONFORM TO THE STEEL JOIST INSTITUTE (SJI) "STANDARD SPECIFICATIONS AND LOAD TABLES FOR STEEL JOISTS AND JOIST GIRDERS"(LATEST EDITION).

J-2 THE JOIST MANUFACTURER IS TO PROVIDE ALL ANCHORS AND FASTENERS REQUIRED FOR INSTALLATION OF JOISTS, BRIDGING AND BOTTOM CHORD EXTENSIONS.

J-3 PROVIDE BRIDGING AND ANCHORAGE IN ACCORDANCE WITH SJI REQUIREMENTS. WHERE ERECTION BRIDGING IS REQUIRED, HAVE IN PLACE A ROW OF BOLTED BRIDGING BEFORE RELEASING HOIST LINES. BRIDGING IN FIRST TWO AND LAST TWO SPACES SHALL BE 'X'-TYPE AND ATTACHED TO A STRUCTURAL WALL OR STEEL BEAM.

J-4 NO LOADS MAY BE APPLIED TO THE JOISTS UNTIL BRIDGING HAS BEEN COMPLETELY INSTALLED AND THE JOIST ENDS HAVE BEEN SECURED TO THEIR SUPPORTS.

J-5 STEEL JOISTS ARE TO BE EQUALLY SPACED IN BAYS UNO. DO NOT EXCEED JOIST SPACING INDICATED ON THE DRAWINGS.

J-6 STEEL JOIST MANUFACTURER IS TO PROVIDE ADDITIONAL BOTTOM CHORD BRIDGING AS REQUIRED FOR UPLIFT LOADS. RE: S-611 FOR UPLIFT LOADING DIAGRAM.

J-7 HANGERS SUPPORTING MECHANICAL, ELECTRICAL OR OTHER EQUIPMENT ARE TO BE PLACED AT JOIST PANEL POINTS (WELDING NOT PERMITTED) AND APPLIED LOADS ARE TO BE COORDINATED WITH STEEL JOIST MANUFACTURER. DO NOT SUSPEND ANY EQUIPMENT FROM BRIDGING OR METAL DECK.

J-8 STEEL JOIST MANUFACTURER TO VERIFY SIZE, LOCATION AND WEIGHT OF ALL SUPPORTED MECHANICAL UNITS AND ASSOCIATED OPENINGS PRIOR TO FABRICATION.

METAL DECK

D-1 METAL DECK MUST BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS" (LATEST EDITION).

D-2 ROOF DECK TO BE FASTENED TO THE SUPPORTING STEEL AT THE END OF UNITS AND AT ALL INTERMEDIATE SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS AND DECK SIDE LAPS SHALL BE FASTENED WITH #10 TEK SCREWS BETWEEN THE SUPPORTS, SPACING AS INDICATED BY THE ENGINEER OF RECORD, ANY SPLIT OR PARTIAL PANELS TO BE FASTENED TO THE SUPPORTING STRUCTURE IN EVERY VALLEY REGARDLESS OF ADJACENT FASTENER PATTERNS.

D-3 DECK UNITS TO BE A MINIMUM OF THREE (3) SPANS CONTINUOUS WITH LAPS PLACED OVER SUPPORTS.

MASONRY

M-1 MASONRY WORK MUST BE IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE FOR MASONRY STRUCTURES-ACI 530" (LATEST EDITION) AND THE "SPECIFICATIONS FOR MASONRY STRUCTURES-ACI 530.1" (LATEST EDITION).

M-2 ALL MORTAR TO CONFORM TO ASTM C 270, TYPE M OR S.
- A. PORTLAND CEMENT: ASTM C 150, TYPE I.
- B. LIME: ASTM C 207

M-3 GROUT IS TO CONFORM TO ASTM C 476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
- A. SLUMP: 8 TO 10 INCHES.
- B. MAXIMUM AGGREGATE SIZE: 3/8".

M-4 CONCRETE MASONRY TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF MASONRY (F'M) EQUAL TO 1,500 PSI AND:
- A. HOLLOW BLOCK: ASTM C 90, NORMAL WT.
- B. SOLID BLOCKS: ASTM C 90.

M-5 DEFORMED BAR REINFORCEMENT PER ASTM A 615/A 615M GRADE 60.
- A. PROVIDE MINIMUM LAP SPLICES OF 48 BAR DIAMETERS.
- B. PROVIDE BAR SPACERS AS REQUIRED TO PROPERLY LOCATE REINFORCING WITHIN CMU CELLS.

M-6 HORIZONTAL JOINT REINFORCING TO BE SPACED AT 16" OC IN ALL WALLS UNO AND SHALL BE GALVANIZED, STANDARD CLASS, LADDER TYPE, CONFORMING TO ASTM A951. SIDE RODS TO BE 3/16" WITH NO. 9 CROSS RODS UNO. PROVIDE ONE-PIECE PREFABRICATED REINFORCING UNITS AT 8" OC AT ALL WALL CORNERS AND INTERSECTIONS AND IN THE FIRST TWO COURSES ABOVE AND BELOW MASONRY OPENINGS. PROVIDE LAP AS RECOMMENDED BY THE MANUFACTURER WITH A MINIMUM OF 6". DISCONTINUE HORIZONTAL JOINT REINFORCING AT CONTROL JOINTS.

M-7 ALL MASONRY TO BE CONSTRUCTED USING A RUNNING BOND PATTERN. FULL BED AND HEAD JOINTS MUST BE USED.

M-8 GROUT CELLS OF CMU SOLID FOR ALL MASONRY BELOW GRADE, CMU LINTELS, BOND BEAMS, CELLS WITH VERTICAL REINFORCEMENT AND BELOW BEAM BEARING PLATES.

M-9 BOND BEAMS AND REINFORCING TO BE DISCONTINUOUS AT CONTROL JOINTS UNLESS NOTED OTHERWISE. BOND BEAM REINFORCING AT THE TOP AND BOTTOM OF ALL WALLS IS TO BE CONTINUOUS.

M-10 ALL MASONRY WALLS TO BE TEMPORARILY BRACED UNTIL FLOOR OR ROOF SYSTEM HAS BEEN INSTALLED AND HAS BECOME CAPABLE OF STABILIZING THE WALLS.

M-11 ANCHOR RODS PER ASTM F 1554.

M-12 DOWEL REINFORCED MASONRY WALLS TO FOUNDATION. SIZE DOWELS TO MATCH WALL REINFORCEMENT. LOCATE DOWELS IN CELLS TO CONTAIN WALL REINFORCEMENT. LAP DOWELS WITH WALL REINFORCEMENT A MINIMUM OF 48 BAR DIAMETERS UNO.

M-13 DURING CONSTRUCTION, COVER AND PROTECT THE TOPS OF MASONRY WALLS AT THE END OF EACH DAY.

M-14 UNLESS NOTED OTHERWISE, PLACE TYPICAL CMU REINFORCEMENT IN CENTER OF FULLY GROUTED CELLS AND SPACE AS FOLLOWS:
- A. FOR 6" CMU: (1) #5 VERTICAL AT 48" ON CENTER.
- B. FOR 8" CMU: (1) #5 VERTICAL AT 32" ON CENTER.
- C. FOR 12" CMU: (1) #5 VERTICAL AT 32" ON CENTER.
- D. PROVIDE ADDITIONAL BARS AT CORNERS AND OPENINGS PER TYPICAL DETAILS.

M-15 ALL CORNERS AND INTERSECTIONS TO BE TIED BY MASONRY BOND.

M-16 CONTROL JOINT SPACING IN MASONRY WALLS SHALL BE PROVIDED WHERE INDICATED ON THE ARCHITECTURAL DRAWINGS, OR AT 25'-0" ON CENTER MAXIMUM AND WITHIN 2'-0" ON EITHER SIDE OF ALL WALL CORNERS.

LIGHT GAGE STEEL FRAMING

LG-1 STRUCTURAL MEMBERS MUST BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (LATEST EDITION).

LG-2 STRUCTURAL MEMBERS TO BE FORMED FROM CORROSION RESISTANT STEEL CONFORMING TO ASTM A 653/A 653M WITH MINIMUM YIELD STRESS (FY) AS REQUIRED BY STRUCTURAL PERFORMANCE.

LG-3 LIGHT GAGE MEMBERS AND DETAILS SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS ARE FOR BID PURPOSES ONLY. STRUCTURAL STUD AND/OR JOIST FRAMING MEMBERS AND CONNECTIONS ARE TO BE ENGINEERED BY THE MANUFACTURER.

LG-4 EXTERIOR STUD WALLS TO BE DESIGNED FOR A MINIMUM UNIFORM WIND PRESSURE PER THE APPLICABLE BUILDING CODE COMPONENTS AND CLADDING LOAD AND A MAXIMUM PERMISSIBLE HORIZONTAL DEFLECTION OF L/360 (L/600 FOR BRICK VENEER).

LG-5 MAXIMUM STUD SPACING TO BE 16" ON CENTER WITH DOUBLED STUDS (MINIMUM) AT EACH SIDE OF OPENINGS.

LG-6 FRAMING COMPONENTS ARE TO BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.

LG-7 FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING, TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.

LG-8 FASTENING OF COMPONENTS IS TO BE WITH SELF-DRILLING SCREWS OR WELDING. WELDING OF STUDS MUST COMPLY WITH AWS D1.3/D1.3M. ALL WELDS TO BE TOUCHED-UP WITH ZINC-RICH PAINT. SCREWS AND WELDS TO BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS IS NOT PERMITTED.

LG-9 LIGHT GAGE STEEL FRAMING MEMBERS ARE TO BE SECURELY ATTACHED TO THE STRUCTURE WHERE INDICATED ON THE DRAWINGS. FASTENERS TO BE COMPATIBLE TO THE STRUCTURAL MEMBERS. POWDER DRIVEN FASTENERS ARE NOT ACCEPTABLE FOR STRUCTURAL APPLICATIONS.

LG-10 PROVIDE VERTICAL SLIDE TRACKS, OR SLIDE CLIPS, WHERE INDICATED ON THE DRAWINGS OR OTHERWISE REQUIRED TO ALLOW FOR VERTICAL STRUCTURAL MOVEMENTS. MAXIMUM EXPECTED STRUCTURE LIVE LOAD DEFLECTION IS L/360 AT FLOORS AND L/240 AT ROOFS.

LG-11 REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING SHEATHING TYPE, FINISHES, OPENINGS, LOCATIONS ETC.

STRUCTURAL WOOD

W-1 DESIGN, FABRICATION AND CONSTRUCTION OF WOOD FRAMING MUST CONFORM WITH:
- A. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)
  1. "TIMBER CONSTRUCTION MANUAL" (2012)
  2. "STANDARD FOR HEAVY TIMBER CONSTRUCTION" (AITC 108-93)
  3. "STANDARD SPECIFICATION FOR STRUCTURAL GLUE LAMINATED TIMBER OF HARDWOOD SPECIES" (AITC 119-96)
  4. "STANDARD SPECIFICATION FOR STRUCTURAL GLUE LAMINATED TIMBER OF SOFTWOOD SPECIES" (AITC 117-2010)
  5. "AMERICAN NATIONAL STANDARD, STRUCTURAL GLUE LAMINATED TIMBER" (ANSI/AITC A190.1-2007)
  6. "STANDARD FOR PRESERVATIVE TREATMENT OF STRUCTURAL GLUE LAMINATED TIMBER" (AITC 109-2007)
- B. NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA) "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" (2013) AND ITS SUPPLEMENTS
- C. AMERICAN WOOD PROTECTION ASSOCIATION STANDARD, 2010
- D. AMERICAN SOFTWOOD LUMBER STANDARD, (PS 20-10)

W-2 SAWN LUMBER FOR TRUSSES, RAFTERS, BEAMS, AND OTHER LOAD CARRYING MEMBERS SHALL BE NO. 1 SOUTHERN PINE OR BETTER GRADED IN ACCORDANCE WITH THE NFPA NATIONAL DESIGN SPECIFICATION AND BEARING A GRADING MARK. BLOCKING, TRIM AND OTHER NON-LOAD CARRYING FRAMING MAY BE NO.2 SOUTHERN PINE.

W-3 STRUCTURAL GLUED LAMINATED TIMBER (SGLT) SHALL BE HORIZONTALLY LAMINATED MEMBERS MANUFACTURED IN ACCORDANCE WITH THE "TIMBER CONSTRUCTION MANUAL" OF THE AITC.
- A. LUMBER SOUTHERN PINE OR DOUGLAS-FIR WITH THE FOLLOWING MINIMUM PROPERTIES FOR DRY CONDITION OF USE:
  1. Fb= 2400 PSI (BENDING)
  2. Fv= 165 PSI (HORIZONTAL SHEAR)
  3. E= 1,800,000 PSI (MODULUS OF ELASTICITY)
- B. CONNECTORS:
  1. SPLIT RINGS AND/OR SHEAR PLATES AS REQUIRED BY DESIGN.
  2. BOLTS ASTM A 307 - 3/4" DIAMETER GALV UNO
- C. ADHESIVES TO BE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARD ANSI/AITC A190.1

W-4 ALL METAL CONNECTORS USED SHALL BE GALVANIZED UNO.

W-5 ALL CONNECTIONS FOR BEAMS, RAFTERS, POSTS, AND MANUFACTURED WOOD FRAMING TO BE MADE WITH APPROPRIATE METAL HANGERS, FRAMING ANGLES, CONNECTORS, STRAPS, ETC.
- A. BOLTS OR LAG SCREWS PER ASTM A 307 SPECIFICATIONS (GALV).
- B. NAILS TO BE COMMON NOT BOX. (NAILS TO BE GALVANIZED.)
- C. THE QUANTITY AND SIZE OF NAILS AND OTHER FASTENERS CONNECTING WOOD MEMBERS MUST NOT BE LESS THAN THE FASTENING SCHEDULE SET FORTH IN THE FLORIDA BUILDING CODE.

W-6 PROVIDE CORROSION RESISTANT, LIGHT GAGE METAL FRAMING CONNECTORS AS INDICATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND IN THE SPECIFICATIONS. PROVIDE MAXIMUM NUMBER AND SIZE OF FASTENERS ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS.

W-7 WOOD IN CONTACT WITH CONCRETE OR EARTH, EXPOSED TO WEATHER OR INSECTS, OR IN DIRECT CONTACT WITH SALT OR SALT/AGGREGATE MIX, IS TO BE PRESSURE TREATED.

W-8 CONTRACTOR SHALL FIELD TREAT PRESSURE TREATED LUMBER THAT IS NEWLY CUT, NOTCHED OR DRILLED.

W-9 MEMBERS DESIGNATED AS PRESSURE TREATED ARE TO BE PRESERVATIVE TREATED WOOD USING WATER-BORNE PRESERVATIVES AND TREATED IN ACCORDANCE WITH THE AMERICAN WOOD-PRESERVERS' ASSOCIATION (AWPA) STANDARDS C2 AND C9 AS APPLICABLE.

Ocala International Airport

OCALA INTERNATIONAL AIRPORT
CITY OF OCALA

Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
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TAMPA, FL 33624
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FLORIDA LICENSE # AA 00003054

Key Plan:

Design Criteria Package (DCP) - Final Review
November 15, 2017

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No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
AHW	DYH	JJS

Project Name:
GENERAL AVIATION TERMINAL BUILDING

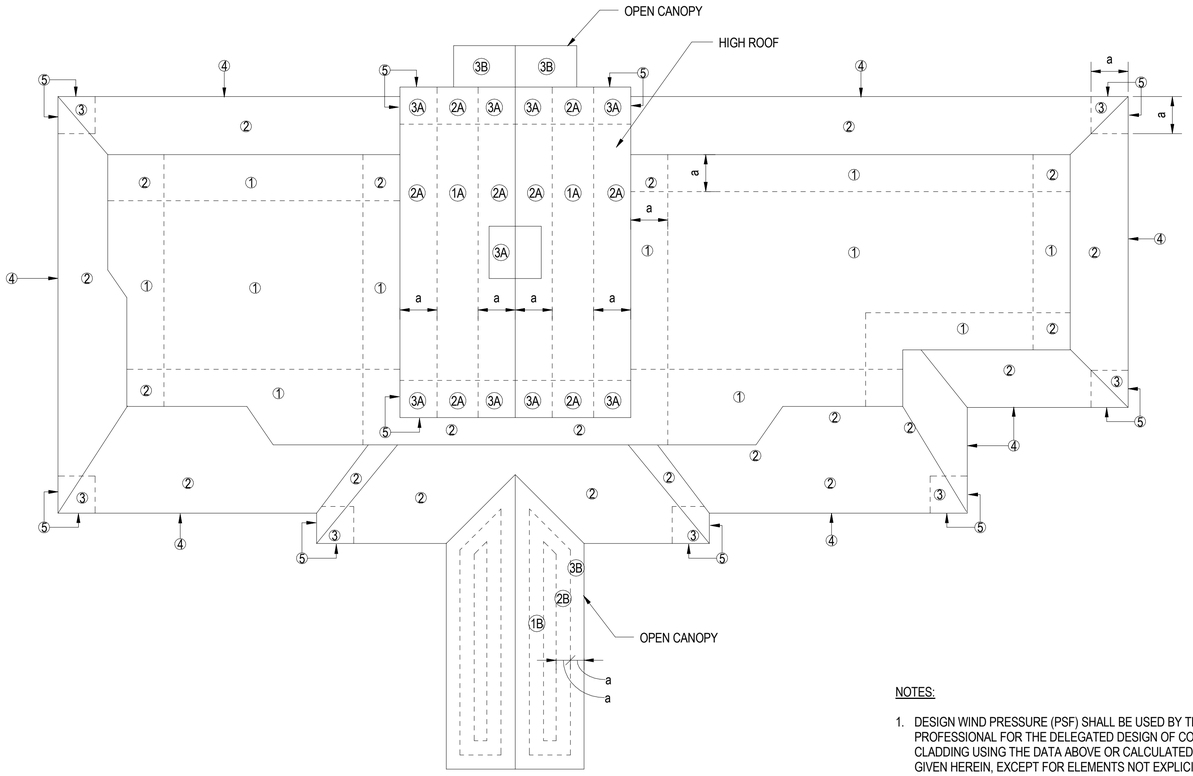
Drawing Name:
STRUCTURAL GENERAL NOTES

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:
S-002

ROOF WIND LOADING (COMPONENTS & CLADDING) SCHEDULE



LOW ROOF WIND LOAD CRITERIA (COMPONENTS & CLADDING)

TRIBUTARY AREA	ROOF LOAD (PSF)					WALL LOAD (PSF)		DISTANCE "a"
	ZONE 1	ZONE 2	ZONE 3	ZONE 2 OVH	ZONE 3 OVH	ZONE 4	ZONE 5	
10 SF	+40.1 -43.9	+40.1 -51.3	+40.1 -51.3	+40.1 -74.4	+40.1 -74.4	+43.9 -47.6	+43.9 -58.7	7' - 10"
25 SF	+38.7 -40.9	+38.7 -48.3	+38.7 -48.3	+38.7 -71.4	+38.7 -71.4	+41.3 -45.0	+41.3 -53.5	7' - 10"
50 SF	+37.6 -38.7	+37.6 -46.1	+37.6 -46.1	+37.6 -69.2	+37.6 -69.2	+39.3 -43.0	+39.3 -49.6	7' - 10"
100 SF	+36.4 -36.4	+36.4 -43.9	+36.4 -43.9	+36.4 -66.9	+36.4 -66.9	+37.3 -41.0	+37.3 -45.6	7' - 10"
500 SF	+36.4 -36.4	+36.4 -43.9	+36.4 -43.9	+36.4 -66.9	+36.4 -66.9	+32.7 -36.4	+32.7 -36.4	7' - 10"

ASCE 7-10 FIGURE 30.4-1 & 30.4-2C

HIGH ROOF WIND LOAD CRITERIA (COMPONENTS & CLADDING)

TRIBUTARY AREA	ROOF LOAD (PSF)					WALL LOAD (PSF)		DISTANCE "a"
	ZONE 1A	ZONE 2A	ZONE 3A	ZONE 2A OVH	ZONE 3A OVH	ZONE 4A	ZONE 5A	
10 SF	+45.1 -49.3	+45.1 -57.7	+45.1 -57.7	+45.1 -83.6	+45.1 -83.6	+49.3 -53.5	+49.3 -66.0	7' - 10"
25 SF	+43.5 -46.0	+43.5 -54.3	+43.5 -54.3	+43.5 -80.3	+43.5 -80.3	+46.4 -50.6	+46.4 -60.2	7' - 10"
50 SF	+42.2 -43.5	+42.2 -51.8	+42.2 -51.8	+42.2 -77.7	+42.2 -77.7	+44.2 -48.3	+44.2 -55.7	7' - 10"
100 SF	+41.0 -41.0	+41.0 -49.3	+41.0 -49.3	+41.0 -75.2	+41.0 -75.2	+41.9 -46.1	+41.9 -51.3	7' - 10"
500 SF	+41.0 -41.0	+41.0 -49.3	+41.0 -49.3	+41.0 -75.2	+41.0 -75.2	+36.8 -41.0	+36.8 -41.0	7' - 10"

ASCE 7-10 FIGURE 30.4-1 & 30.4-2C

NOTES:

1. DESIGN WIND PRESSURE (PSF) SHALL BE USED BY THE REGISTERED DESIGN PROFESSIONAL FOR THE DELEGATED DESIGN OF COMPONENTS AND CLADDING USING THE DATA ABOVE OR CALCULATED FROM PARAMETERS GIVEN HEREIN, EXCEPT FOR ELEMENTS NOT EXPLICITLY DESIGNED AND SPECIFIED WITHIN THESE DOCUMENTS.
2. THE WIND LOADS NOTED ABOVE ARE BASED ON ZONES WHICH LOCATED SPECIFIC AREAS ON THE ROOF AND WALL SURFACES. THESE ZONES ARE LOCATED PER ASCE 7-10 TABLE 30.7-2. (LOADS BASED ON EFFECTIVE TRIBUTARY AREA) FOR AREAS OTHER THAN THE PRESSURE VALUES SHOWN, SHALL BE CALCULATED BY THE SUPPLIERS REGISTERED PROFESSIONAL ENGINEER FROM THE PARAMETERS PROVIDED HEREIN.
3. LOADS FOR TRIBUTARY AREA ARE INDICATED IN SQUARE FEET. ALGEBRAICALLY ROUND MEMBER SPECIFIC TRIBUTARY AREAS TO HIGHER PRESSURE FOR INTERMEDIATE SQUARE FOOTAGE VALUES IN THE TABLE ABOVE.
4. POSITIVE VALUES IN THE TABLE ABOVE ARE INWARD AND NEGATIVE VALUES ARE OUTWARD PRESSURE IN UNITS OF POUNDS PER SQUARE FOOT.
5. SEE DRAWING S-001 FOR DESIGN WIND PARAMETERS.

OPEN CANOPY WIND LOAD CRITERIA (COMPONENTS & CLADDING)

TRIBUTARY AREA	ROOF LOAD (PSF)			DISTANCE "a"
	ZONE 1B	ZONE 2B	ZONE 3B	
≤9 SF	+40.2 -27.8	+61.8 -43.3	+80.3 -55.7	3' - 0"
>9, ≤36 SF	+40.2 -27.8	+61.8 -43.3	+61.8 -43.3	3' - 0"
>36 SF	+40.2 -27.8	+40.2 -27.8	+40.2 -27.8	3' - 0"

ASCE 7-10 FIGURE 30.8-2

Ocala International Airport

OCALA INTERNATIONAL AIRPORT
CITY OF OCALA

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FLORIDA LICENSE # AA 00003054

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AHW	DYH	JJS

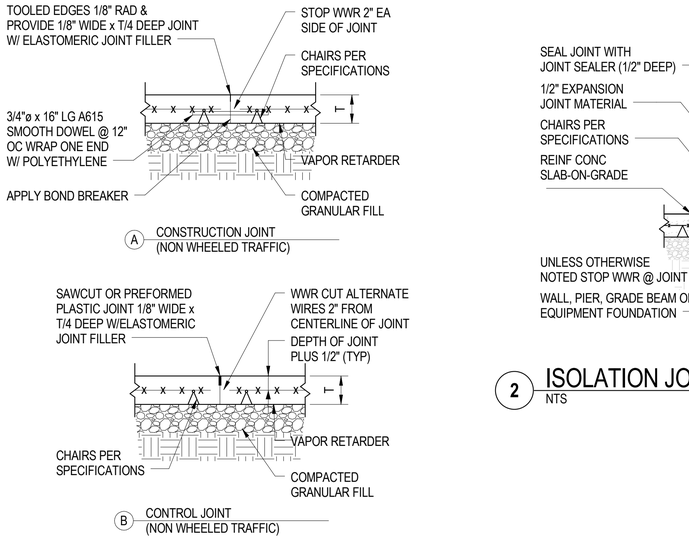
Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
WIND LOAD SCHEDULE & DIAGRAM

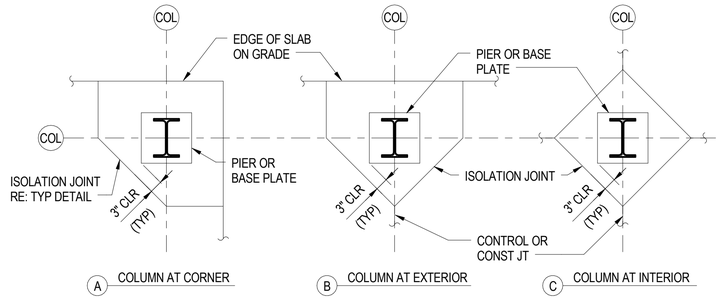
Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

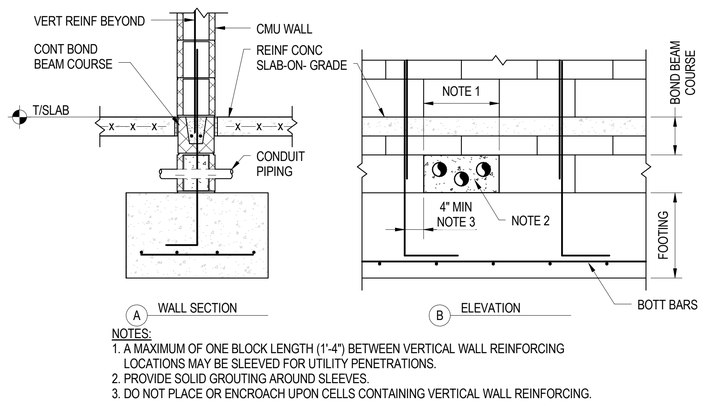
Drawing Number:
S-003



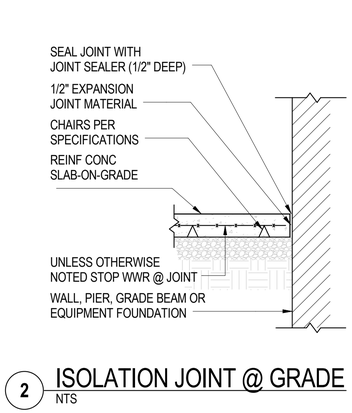
1 SLAB-ON-GRADE JOINTS (NON-WHEELED)
NTS



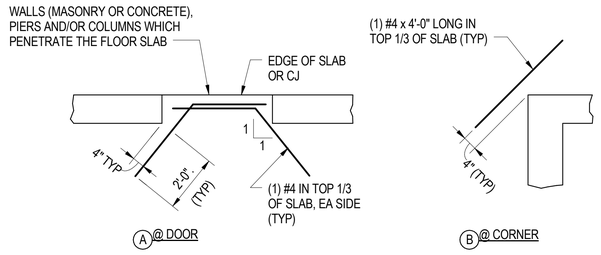
5 COLUMN/SLAB ISOLATION JOINTS
NTS



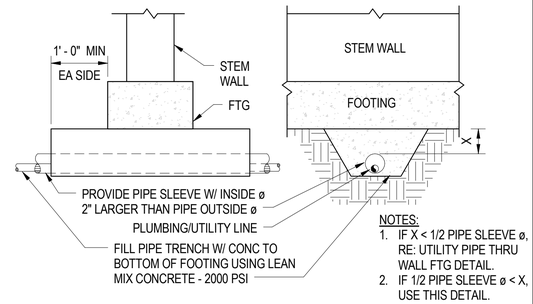
8 MULTIPLE UTILITY PENETRATIONS THROUGH STEM WALL
NTS



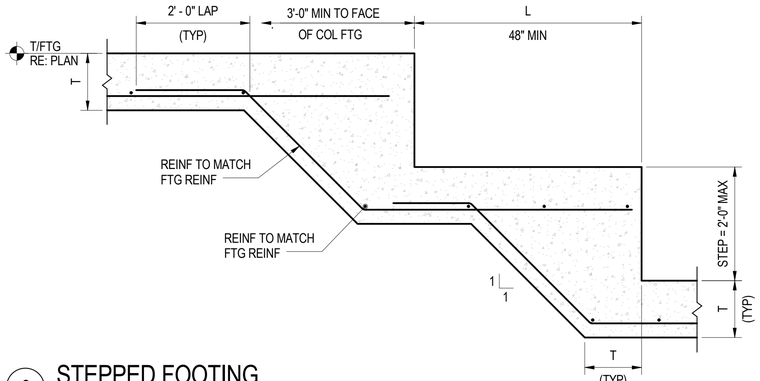
2 ISOLATION JOINT @ GRADE
NTS



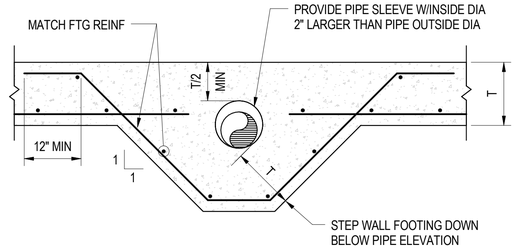
3 RE-ENTRANT CORNER
NTS



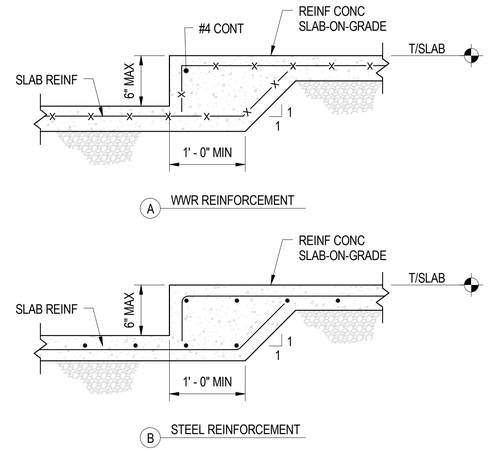
4 TYPICAL UTILITY PIPE UNDER WALL FTG
NTS



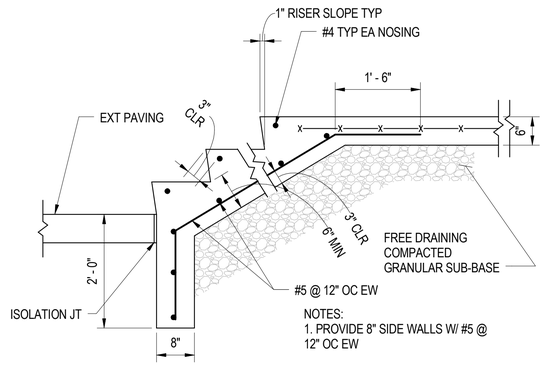
6 STEPPED FOOTING
NTS



7 TYPICAL UTILITY PIPE THRU WALL FTG
NTS



9 DEPRESSED SLAB
NTS



10 TYPICAL REINFORCED CONCRETE STAIR DETAIL
NTS

Ocala International Airport

OCALA INTERNATIONAL
AIRPORT
CITY OF OCALA

Michael Baker
INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
5020 WEST LINEBAUGH AVE., SUITE 240
TAMPA, FL 33624
PHONE 813-889-3892 • FAX 813-889-3893
FLORIDA LICENSE # AA 00003054

Key Plan:

Design Criteria Package
(DCP) - Final Review
November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
AHW	DYH	JJS

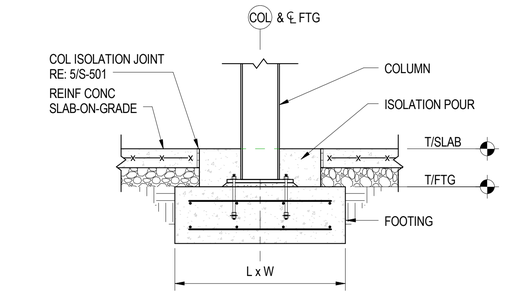
Project Name:
GENERAL AVIATION
TERMINAL BUILDING

Drawing Name:
FOUNDATION
TYPICAL DETAILS

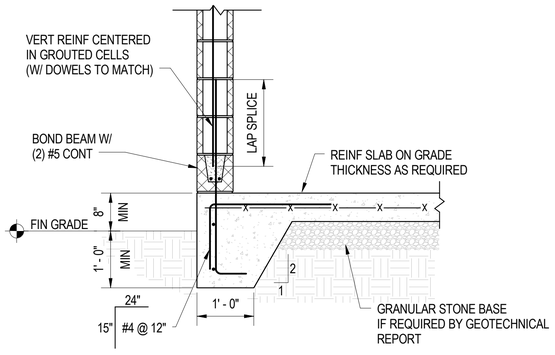
Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

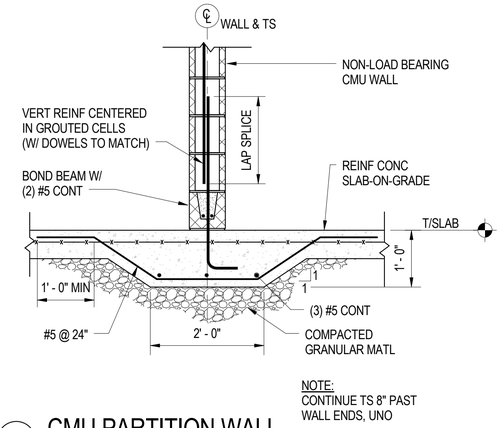
Drawing Number:
S-501



1 INTERIOR COLUMN FOOTING
NTS

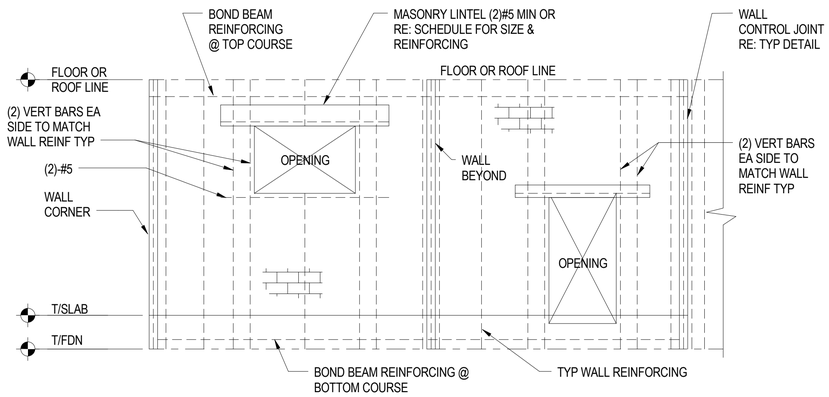


2 TYPICAL EXTERIOR WALL FOUNDATION
3/4" = 1'-0"



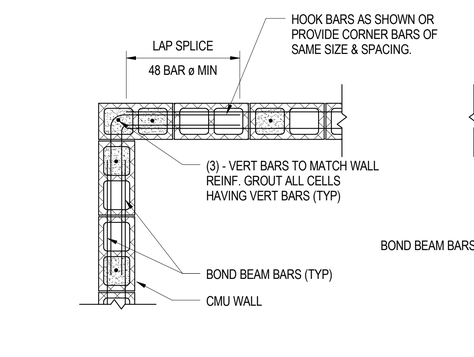
NOTE:
CONTINUE TS 8" PAST
WALL ENDS, UNO

3 CMU PARTITION WALL
NTS

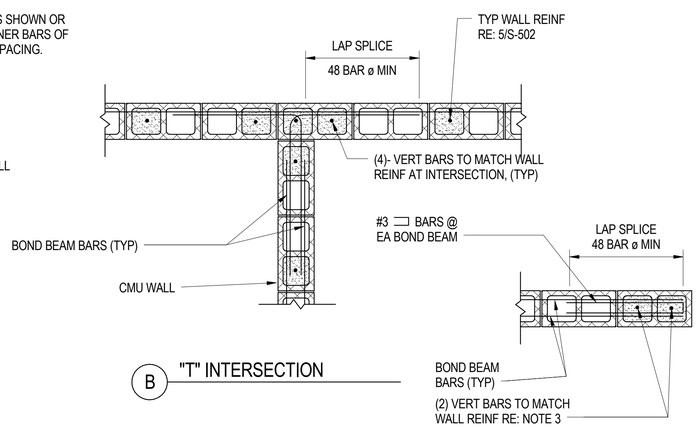


NOTES:
1. GROUT LINTELS SOLID FOR 2'-0" (MIN) BEYOND OPENING.
2. CMU TO BE GROUTED SOLID FOR 16" EA SIDE OF EA OPENING, UNO.
3. RE: TYP CMU WALL REINFORCING DETAILS FOR ADD'L INFO @ CORNER & INTERSECTION CONDITIONS.
4. USE STEEL LINTELS WHERE A WALL CONTROL JOINT TRANSECTS THE LINTEL.

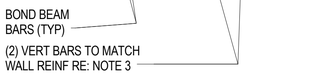
4 TYP CMU OPENING REINFORCEMENT ELEVATION
NTS



A CORNER



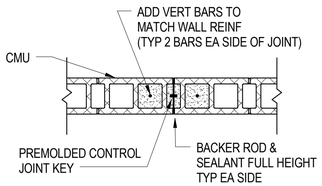
B "T" INTERSECTION



C WALL END, OR JAMB

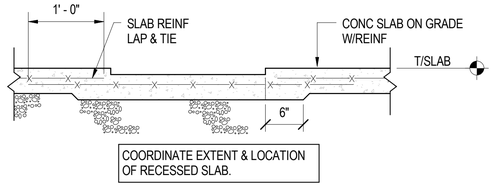
NOTES:
1. AT CORNERS AND INTERSECTIONS, UNLESS OTHERWISE NOTED OR SPECIFIED, LAY 50% OF UNITS IN MASONRY BOND WITH ALTERNATE UNITS BEARING NOT LESS THAN 4" ON THE UNIT BELOW.
2. PROVIDE DOWELS FROM CONCRETE FOOTING OR WALL BELOW W/SAME SIZE AND SPACING AS VERTICAL BARS AT LEVEL ABOVE. LAP 48 BAR DIAMETERS MIN UNO.
3. AT WALL JAMBS, INTERRUPT END BAR AT STEEL LINTEL.

5 TYP CMU WALL REINFORCING
NTS

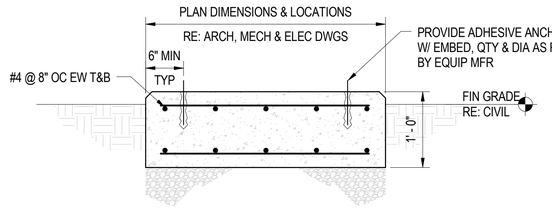


NOTES:
1. CONTROL JOINTS TO EXTEND FULL HEIGHT OF CMU WALL
2. BOND BEAM REINF AT OR NEAREST ROOF OR FLOOR DIAPRAGHMS ABOVE SLABS-ON-GRADE SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
3. JOINT REINFORCEMENT TO BE DISCONTINUOUS AT CONTROL JOINTS.
4. BACKER ROD MAY BE OMITTED IF FULL WIDTH PREMOLDED CONTROL JOINT KEY IS EMPLOYED. COORD W/ARCH FINISH REQUIREMENTS.
5. RE: GENERAL NOTES FOR ADDITIONAL INFORMATION.
6. DO NOT PLACE WITHIN A PIER OR CLOSER THAN 16" TO AN OPENING.

6 CMU WALL CONTROL JOINT
NTS

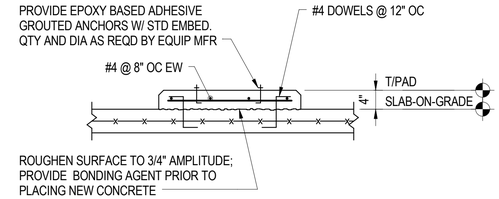


7 TYP DEPRESSED SLAB DETAIL
NTS



NOTES:
1. COORDINATE SIZE & LOCATION WITH EQUIPMENT REQUIREMENTS
2. CHAMFER ALL EDGES 1" TYPICAL.

8 EQUIPMENT PAD (EXTERIOR)
NTS



NOTES:
1. COORDINATE SIZE & LOCATION WITH EQUIPMENT REQUIREMENTS.
2. CHAMFER ALL EDGES 1" TYPICAL.

9 EQUIPMENT PAD ON NEW SLAB
NTS

Ocala International Airport

OCALA INTERNATIONAL
AIRPORT
CITY OF OCALA

Michael Baker
INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
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FLORIDA LICENSE # AA 00003054

Key Plan:

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November 15, 2017

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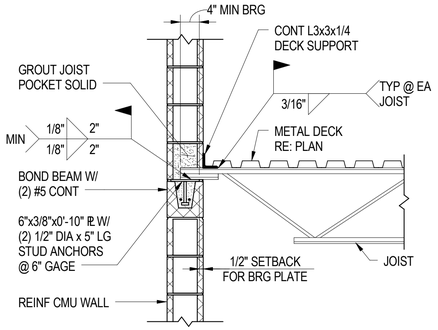
FOUNDATION
TYPICAL DETAILS

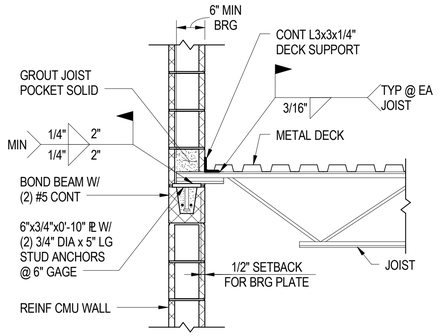
Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

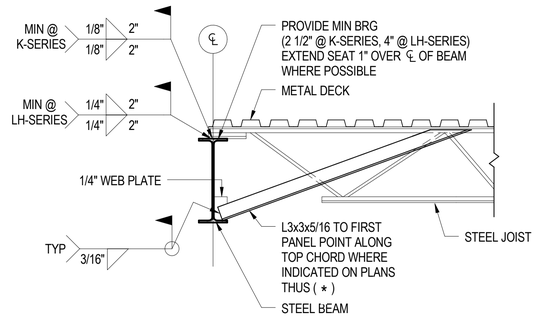
Drawing Number:
S-502



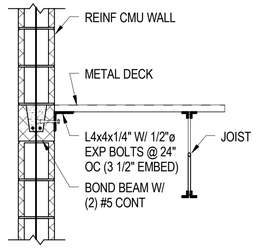
1 K-SERIES JOIST BEARING ON CMU WALL
3/4" = 1'-0"



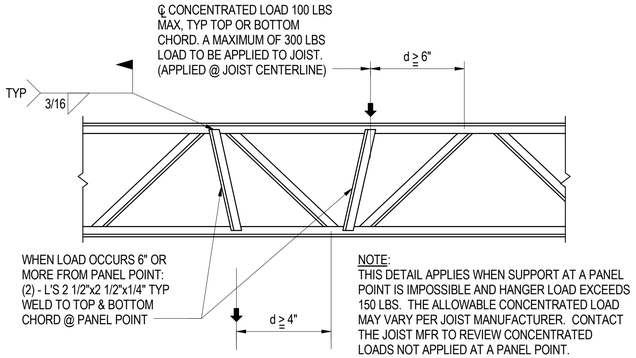
2 LH-SERIES JOIST BEARING ON CMU WALL
NTS



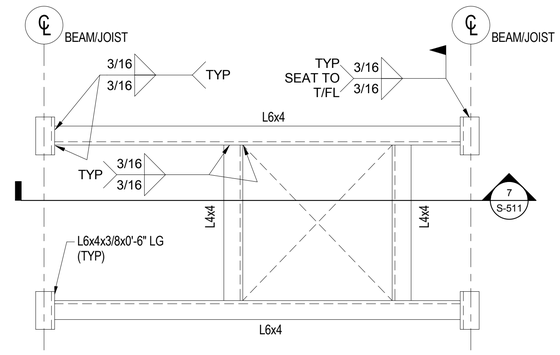
3 JOIST BEARING ON BEAM
3/4" = 1'-0"



4 JOIST PARALLEL TO CMU WALL
NTS



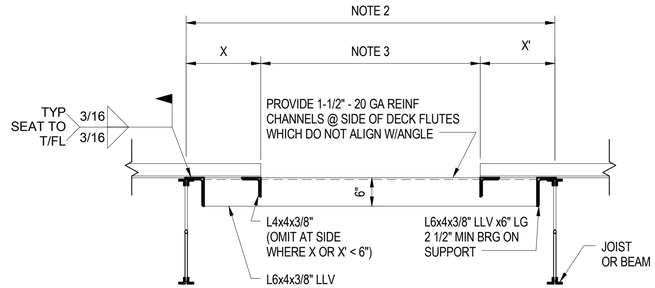
5 TYP JOIST REINFORCING @ CONCENTRATED LOADS
NTS



NOTE: CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF OPENINGS WITH THE MECHANICAL EQUIPMENT PURCHASED.

A PLAN

6 FRAMING AT ROOF OPENING
NTS

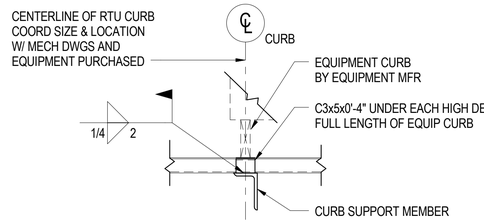


NOTE:

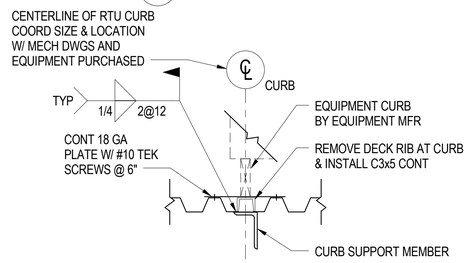
1. PROVIDE FRAME AT OPENING WHERE ANY DIMENSION EXCEEDS 1'-0"
2. WHEN JOIST OR BEAM SPACING EXCEEDS 5'-0", VERIFY ALL ANGLE SIZES W/ENGINEER.
3. COORDINATE OPENING DIMENSIONS, LOCATIONS AND CURB CONSTRUCTION W/ ARCH & MECH DWGS & EQUIPMENT PURCHASED.
4. PROVIDE L6x4x3/8 (LLV) UNDER MECH UNIT CURBS NOT SUPPORTED BY ROOF STRUCTURE.
5. RE: TYPICAL JOIST REINFORCING DETAIL FOR ADDITIONAL INFORMATION.

B SECTION

7 FRAMING AT ROOF OPENING (CONT)
NTS REF: S-511



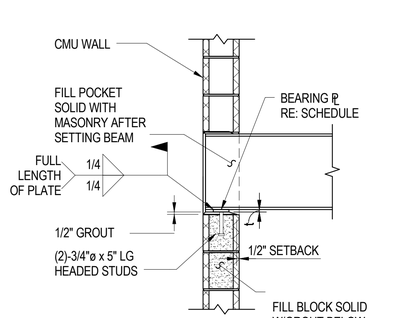
1 DECK PERPENDICULAR



2 DECK PARALLEL

C CURB SUPPORT

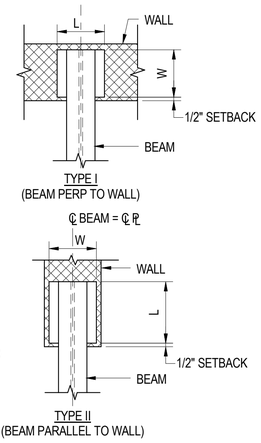
8 FRAMING AT ROOF OPENING (CONT)
NTS

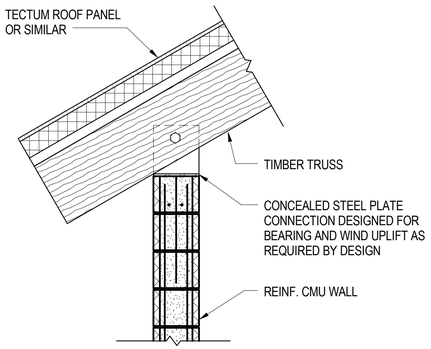


BEAM BEARING SCHEDULE		
MARK	BEARING PLATE t x L x W	TYPE
W8	1/2" x 10" x 0'-6 1/2"	I & II
BP1	3/4" x 10" x 0'-6"	I
BP2	3/4" x 12" x 0'-6"	II

℄ BEAM = ℄ ℞

9 BEAM BEARING ON CMU WALL
NTS





10 TIMBER TRUSS @ HIGH ROOF
3/4" = 1'-0"

0 1'-0" 2'-0" 4'-0"
SCALE: 3/4" = 1'-0"

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GENERAL AVIATION
TERMINAL BUILDING

Drawing Name:
FRAMING TYPICAL
DETAILS

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:
S-511

ABBREVIATIONS

A	
A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT OR ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING MATERIAL
AVG	AVERAGE
B	
B PL	BASE PLATE OR BEARING PLATE
B/	BOTTOM OF
B/C	BOTTOM OF CURB
BD	BOARD
BF	BOTH FACES
BFF	BELOW FINISHED FLOOR
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK
BM	BEAM
BOT	BOTTOM
BR	BRICK
BRG	BEARING
BRKT	BRACKET
BS	BOTH SIDES
BSMT	BASEMENT
BT	BENT
BTWN	BETWEEN
C	
CB	CATCH BASIN
CC	CENTER TO CENTER
CEM PL	CEMENT PLASTER
CF	CUBIC FOOT OR CUBIC FEET
CHAM	CHAMFER
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	COMCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COOR	COORDINATE
CORR	CORRIDOR
CRSE	COURSE
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CY	CUBIC YARD
D	
db	BAR DIAMETER
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
E	
E	EAST
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELE	ELEVATOR
ELEC	ELECTRICAL
ELEV	ELEVATION
EMBED	EMBED(ED)(MENT)
ENCL	ENCLOSE(URE)
ENGR	ENGINEER
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE(D)
EW	EACH WAY
EXC	EXCAVATE OR EXCAVATION
EXCL	EXCLUDE(ING)
EXIST	EXISTING
EXP	EXPANSION
EXP BLT	EXPANSION BOLT
EXT	EXTERIOR
F	
F/F	FACE TO FACE
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FAR FACE
FIN	FINISH(ED)
FL	FLOOR
FPRF	FIREPROOF(ING)
FS	FAR SIDE
FT	FOOT/FEET
FTG	FOOTING
G	
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GD	GRADE(ING)
GRAV	GRAVEL
GRD	GROUND
GRT	GROUT
H	
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
I	
ID	INSIDE DIAMETER
IN	INCH(ES)
INCL	INCLUDE
INFO	INFORMATION
INT	INTERIOR
ISO JT	ISOLATION JOINT
J	
JB	JAMB
JST	JOIST
JT	JOINT
K	
K	KIP(S)
KB	KNEE BRACE
KCF	KIPS PER CUBIC FEET
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQAURE FEET
KSI	KIPS PER SQAURE INCH
L	
L	LENGTH
LB	POUND
ld	DEVELOPMENT LENGTH
LF	LINEAL FOOT
LG	LONG
LGT	LENGTH
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LP	LOW POINT
LTL	LINTEL
M	
M/E/P	MECHANICAL, ELECTRICAL, & PLUMBING
MANUF	MANUFACTURE
MAS	MASONARY
MATL	MATERIAL
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURE
MH	MANHOLE
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLTP	MULTIPLE
MO	MASONRY OPENING
MP	MASONRY PIER
MTL	METAL
N	
N	NORTH
NF	NEAR FACE
NIC	NOT IN CONTRACT
NM	NORMAL
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP HAND	OPPOSITE HAND
OZ	OUNCE
P	
PART	PARTITION
PCF	POUNDS PER CUBIC FEET
PCI	POUNDS PER CUBIC INCH
PEMB	PRE-ENGINEERED METAL BUILDING
PERF	PERFORATED
PERM	PERIMETER
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PRCST	PRECAST
PREFAB	PREFABRICATED
PREMLD	PREMOLDED
PROP	PROPERTY
PROT	PROTECT, PROTECTED, OR PROTECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GUAGE
PT	POINT
PVMT	PAVEMENT
Q	
QTY	QUANTITY
R	
RAD	RADIUS OR RADII
RD	ROOF DRAIN
RE:	REFER TO
REC	RECESSED
REINF	REINFORCE(ING)(MENT)
REQ'D	REQUIRED
REV	REVISION OR REIVSE
RF	ROOF
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
S	
S	SOUTH
SC	SLIP CRITICAL
SCHED	SCHEDULE
SDI	STEEL DECK INSTITUTE
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SL	SLOPE(D) OR SLOPING
SLV	SLEEVE
SOG	SLAB ON GRADE
SP	SPACE(S) OR SPACING
SPEC	SPECIFY, SPECIFIED OR SPECIFICATIONS
SQ	SQUARE
SQ FT	SQUARE FOOT
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPEND, SUSPENED, OR SUSPENSION
T	
T	THICKNESS
T&B	TOP & BOTTOM
T/	TOP OF
T/C	TOP OF CURB
TEMP	TEMPORARY
TERM	TERMINATE / TERMINAL
THD	THREAD(ED)
THK	THICKNESS
THRESH	THRESHOLD
TRANS	TRANSVERSE
TRTD	TREATED
TSF	TONS PER SQUARE FEET
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	
W	WEST
W	WIDTH
W/	WITH
W/O	WITHOUT
WL	WIND LOAD
WP	WORKING POINT
WT	WEIGHT
WWF	WELDED WIRE REINFOREMENT

SYMBOLS

∠	ANGLE
@	AT
℄	CENTERLINE
()°	DEGREE
⌀	DIAMETER
⌖	ELEVATION
=	EQUAL
()'	FOOT OR FEET
()"	INCH OR INCHES
#	NUMBER
∥( )	PARALLEL
%	PERCENT
⊥ ( )	PERPENDICULAR
PL	PLATE
S( )	AMERICAN STANDARD SHAPE
L( )	ANGLE
C( )	CHANNEL
LL( )	DOUBLE ANGLE
HSS( )	HOLLOW STRUCTURAL SECTION
MC( )	MISCELLANEOUS CHANNEL
WT( )	STRUCTURAL TEE
W( )	WIDE FLANGE
K( )	OPEN WEB STEEL JOIST

CONCRETE COVER SCHEDULE

MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (RE: ACI 318)
DIMENSIONS FOR BAR PLACEMENT GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE MINIMUM COVER REQUIREMENTS GIVEN HERE.

FOOTINGS (EARTH FORMED)		3"
BEAMS & COLUMNS		1 1/2"
ELEVATED SLABS		3/4"
SLAB TURNED DOWN EDGES:		
TOP		1 1/2"
BOTTOM		3"
SIDES (EARTH FORMED)		3"
SIDES (BOARD FORMED)	#5 BAR & SMALLER	1 1/2"
	#6 THRU #11 BAR	2"
SLABS-ON-GRADE (NO EXPOSURE TO WEATHER) FROM TOP		3/4"
SLABS-ON-GRADE (EXPOSURE TO WEATHER) FROM TOP		1 1/2"
RETAINING WALLS (NO SURFACES SHALL BE EARTH FORMED) EARTH SIDE AND FRONT SIDE (EXPOSED TO WEATHER):		
#5 BAR AND SMALLER		1 1/2"
#6 THRU #11 BAR		2"

PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.

STEEL MATERIALS SCHEDULE

STRUCTURAL ELEMENT	Fy YIELD STRENGTH (ksi)	REMARKS
BEAMS & COLUMNS (UNO)	50	ASTM A992/A992M
RECTANGULAR TUBE STEEL	46	ASTM A500 GRADE B
BRACING	36	ASTM A36/A36M
CONNECTIONS, PLATES & ALL OTHERS	36	ASTM A36/A36M
ANCHOR RODS	36	ASTM F 1554
PIPES	35	ASTM A53/A53M GRADE B
ROUND TUBE STEEL	42	ASTM A500 GRADE B
LIGHT GAGE METAL STUDS/TRUSS MEMBERS	50/33	ASTM A653/A653M

MINIMUM CLASS 'B' LAP SPLICES OF REINFORCING BARS IN TENSION (PER ACI 318)

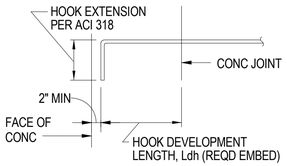
BAR DESIGNATION	F'c = 4000 psi				
	TOP BARS		OTHER BARS		
	CASE 1	CASE 2	CASE 1	CASE 2	
#3	24	36	19	28	
#4	32	48	25	37	
#5	40	60	31	47	
#6	48	72	37	56	
#7	70	106	54	81	
#8	80	121	62	93	
#9	91	136	70	105	
#10	102	153	79	118	
#11	113	170	87	131	

NOTES:

1. YIELD STRENGTH OF REINFORCEMENT, (Fy) IS 60 ksi (LAP SPLICE LENGTH IS IN INCHES).
2. CONCRETE IS NORMAL WEIGHT 145 pcf.
3. TOP BAR INDICATES HORIZONTAL REINFORCEMENT WHICH IS PLACED ABOVE 12" OR MORE OF FRESH CONCRETE.
4. UNLESS NOTED OTHERWISE COLUMNS & PIERS UTILIZE TENSION LAP SPLICES.
5. STRAIGHT DEVELOPMENT LENGTH OF AN UNLAPPED BAR IS EQUAL TO VALUE FROM TABLE DIVIDED BY 1.3.
6. BEAMS & COLUMNS: CASE 1: CONC COVER AT LEAST 1.0 db AND C/C SPACING AT LEAST 2.0 db
   CASE 2: CONC COVER LESS THAN 1.0 db AND C/C SPACING LESS THAN 2.0 db
   ALL OTHERS: CASE 1: CONC COVER AT LEAST 1.0 db AND C/C SPACING AT LEAST 3.0 db
   CASE 2: CONC COVER LESS THAN 1.0 db AND C/C SPACING LESS THAN 3.0 db
7. FOR LIGHTWEIGHT CONCRETE: MULTIPLY THE ABOVE LAP SPLICE VALUES BY 1.3 UNO.
8. FOR EPOXY COATED REINFORCEMENT: MULTIPLY THE ABOVE LAP SPLICE VALUES BY 1.5.

STANDARD HOOKS IN TENSION (PER ACI 318)

HOOK DEVELOPMENT LENGTH (REQD EMBEDMENT) Ldh (INCHES)		
BAR SIZE	F'c (4000 PSI)	
#3	7"	
#4	10"	
#5	12"	
#6	15"	
#7	17"	
#8	19"	
#9	22"	
#10	24"	
#11	27"	



NOTES:

1. CONCRETE IS NORMAL WEIGHT CONCRETE.
2. BAR YIELD STRENGTH, Fy = 60 KSI
3. SIDE COVER REQUIREMENTS OF ACI SECT. 12.5.3.2 ARE ASSUMED TO NOT BE MET.
4. TIE OR STIRRUP REQUIREMENTS OF ACI SECT. 12.5.3.2 ARE ASSUMED TO NOT BE MET.
5. REDUCTION FOR EXCESS REINFORCEMENT IS NOT TAKEN.
6. HOOK DEVELOPMENT LENGTH IS VALID FOR 180° HOOKS ALSO.

CONCRETE MATERIALS SCHEDULE

STRUCTURAL ELEMENT	f'c CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS (PSI)	REMARKS
FOOTINGS	4000	
SLAB-ON-GRADE - BUILDING INTERIOR	4000	
CONCRETE WALLS	4000	
ALL OTHER CONCRETE	4000	

NOTES:

1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE. (145 pcf) (UNO)
2. CEMENT SHALL CONFORM TO ASTM C150 TYPE I, UNO.

Ocala International Airport

OCALA INTERNATIONAL AIRPORT
CITY OF OCALA

Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
5020 WEST LINEBAUGH AVE., SUITE 240
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Key Plan:

Design Criteria Package (DCP) - Final Review
November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
AHW	DYH	JJS

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
ABBREVIATIONS & MATERIAL SCHEDULES

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:
S-601

PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AFF	ABOVE FINISH FLOOR
AW	ACID WASTE
AV	ACID VENT
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CO	CLEAN OUT
CONT	CONTINUATION
CW	COLD WATER
DCW	DOMESTIC COLD WATER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
EXIST	EXISTING
ESH	EMERGENCY SHOWER / EYEWASH
EWH	ELECTRIC WATER HEATER
EWC	ELECTRIC WATER COOLER
F	DEGREE FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	GAS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	KITCHEN WASTE (GREASE)
HB	HOSE BIBB
HD	HUB DRAIN
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATING
IE	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
LBS	POUNDS
MH	MANHOLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PEMB	PRE-ENGINEERED METAL BUILDING
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
SAN	SANITARY
SD	STORM DRAIN
SF	SQUARE FEET
SH	SHEET
SS	SERVICE SINK
STO	OVERFLOW STORM DRAIN
V	VENT
VAC	VACUUM
VTR	VENT THRU ROOF
WCO	WALL CLEAN OUT
WM	WASHING MACHINE SUPPLY AND DRAIN BOX
WTR	WATER

CODE COMPLIANCE

1. TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE, 2014 FLORIDA FIRE PREVENTION CODE AND THE CODES REFERENCED WITHIN.

WATER HAMMER ARRESTOR SCH.

MARK	P.D.I. SIZE (2)	CONNECTION SIZE
A	A (1 - 11 F.U.)	1/2"
B	B (12 - 32 F.U.)	3/4"
C	C (33 - 60 F.U.)	1"

NOTES:
1. PROVIDE HAMMER ARRESTERS PER ARRESTER SCHEDULE.
2. PROVIDE AND INSTALL PER (PDI) PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201.

FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	WASTE	TRAP	VENT	CW	HW
WC-1	WATER CLOSET, FLUSH VALVE	4"	INTEG.	2"	1"	---
WC-1	WATER CLOSET, TANK TYPE	4"	INTEG.	2"	1/2"	---
L-1, 2	LAVATORY	2"	1-1/4"	1-1/2"	1/2"	1/2"
S-1,2	SINK	2"	1-1/2"	1-1/2"	1/2"	1/2"
MS-1,2	MOP SINK	3"	3"	2"	1/2"	1/2"
EWC-1	ELECTRIC WATER COOLER	2"	1-1/4"	1-1/2"	1/2"	---
SH-1	SHOWER	2"	2"	1-1/2"	1/2"	1/2"
HB-1	HOSE BIBB	---	---	---	3/4"	---
U-1	URINAL	3"	INTEG.	1-1/2"	3/4"	---
FD-1	FLOOR DRAIN	3"	2"	1-1/2"	---	---

NOTES:
1. MAKE FINAL PIPE CONNECTIONS FROM BRANCH OR MAIN TO EACH FIXTURE OR DEVICE USING PIPE SIZE(S) AS PER THIS CHART. IF PIPE SIZE IS NOT SHOWN ON PIPNG DRAWINGS.

PLUMBING SPECIFICATIONS

GENERAL CONDITIONS:
THE GENERAL CONDITIONS, SPECIAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND MECHANICAL CONDITIONS OF THE SPECIFICATIONS AND 'GENERAL CONDITIONS OF THE CONTRACT', CURRENT EDITION, ESTABLISHED IN STANDARD FORM BY THE AMERICAN INSTITUTE OF ARCHITECTS SHALL APPLY TO ALL WORK ON THIS PROJECT EXCEPT AS MODIFIED BELOW. THIS CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THESE PROVISIONS AND ADHERE TO THESE REQUIREMENTS. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES PRIOR TO INSTALLATION.

RELATED DOCUMENTS:
THIS CONTRACTOR IS REFERRED TO THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS. SUCH PLANS AND SPECIFICATIONS ARE A PART OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS SURROUNDING THE WORK. IF ANY OF THE CONDITIONS REQUIRE A MODIFICATION OF THE SYSTEMS INDICATED BY THESE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL INCLUDE THE COST OF SUCH MODIFICATIONS IN HIS BID. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS.

MODIFICATIONS TO PLANS AND SPECIFICATIONS:
THROUGHOUT THE COURSES OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO PLANS AND SPECIFICATIONS MAY BE REQUESTED BY THE ARCHITECT / ENGINEER. THE CONTRACTOR SHALL MAKE SUCH ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE OWNER. WHERE SUCH ADJUSTMENTS ARE NECESSARY FOR THE PROPER INSTALLATION AND OPERATION AND WITHIN THE INTENT OF THE CONTRACT DOCUMENTS.

EQUIPMENT SUBSTITUTION:
IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO FORM A GUIDE FOR A COMPLETE INSTALLATION. EVERYTHING NECESSARY FOR THE COMPLETION AND SUCCESSFUL
OPERATION OF THE WORK, WHETHER OR NOT HEREIN DEFINITELY SPECIFIED OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED AS WELL AND AS FAITHFULLY AS IT IS SPECIFIED OR INDICATED WITHOUT ADDITIONAL COST TO THE OWNER. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LENGTHS PRIOR TO INSTALLATION.

IF ANY ERRORS, DISCREPANCIES OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER IN WRITING OF SUCH ERROR OMISSION. IN THE EVENT OF THE CONTRACTOR FAILS TO GIVE SUCH NOTICE BEFORE CONSTRUCTION AND / OR FABRICATION OF THE WORK, HE WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS, DISCREPANCIES OR OMISSIONS AND THE COST TO RECTIFYING SAME.

CODE COMPLIANCE:
COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE STATE, LOCAL AND NATIONAL CODES REGULATING THIS WORK.

PERMITS, FEES, LICENSES:
THIS CONTRACTOR SHALL PAY ALL FEES AND RELATED CHARGES REQUIRED FOR PERMITS, LICENSES, ETC...REQUIRED FOR INSTALLATION OF THE PLUMBING SYSTEMS.

EQUIPMENT SUBSTITUTION:
THIS CONTRACTOR SHALL REIMBURSE THE ELECTRICAL CONTRACTOR, WITHOUT ANY CHARGE TO OWNER, ANY COSTS THE ELECTRICAL CONTRACTOR INCURS DUE TO THIS CONTRACTOR'S SUBSTITUTION OF EQUIPMENT HAVING DIFFERENT ELECTRICAL SERVICE REQUIREMENTS THAN THE SPECIFIED EQUIPMENT.

SHOP DRAWINGS:
THIS CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH A MINIMUM OF SEVEN CERTIFIED COPIES OF ALL SHOP AND EQUIPMENT DRAWINGS FOR HIS APPROVAL, TWO OF WHICH SHALL BE RETAINED BY THE ARCHITECT / ENGINEER AND THE REMAINING BEING RETURNED TO THE CONTRACTOR. DRAWINGS SHALL BE SUBMITTED BEFORE START AT CONSTRUCTION. FAILURE OF COMPLIANCE WITH THIS PARAGRAPH WILL RESULT IN WITHHOLDING OF FINAL PAYMENT.

WARRANTY:
THIS CONTRACTOR SHALL WARRANT HIS WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM SUBSTANTIAL COMPLETION.

BASIC MATERIALS AND METHODS:
ALL WORKMANSHIP AND MATERIALS SHALL BE OF THE HIGHEST QUALITY IN EVERY RESPECT. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, OF THE LATEST DESIGN AND FREE OF DEFECTS. ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST AMENDED EDITION OF ALL APPLICABLE STANDARDS, INCLUDING BUT NOT LIMITED TO, ASTM, UL AND NEMA STANDARDS.

INSTALL ALL PIPING TO PRESENT A NEAT AND ORDERLY APPEARANCE. RUN ALL LINES PARALLEL WITH BUILDING WALLS AND CONSTRUCTION. KEEP PIPING FREE FROM CONTACT WITH STRUCTURE OR EQUIPMENT TO PREVENT NOISE TRANSMISSION, ALLOWING CLEARANCES FOR EXPANSION AND CONTRACTION. PROVIDE ACCESS DOORS OR PANELS FOR ALL VALVES, CLEANOUTS, CONTROL DEVICES, ETC...

WATER SUPPLY PIPING:
ALL ABOVE GROUND WATER SUPPLY PIPE SHALL BE TYPE L HARD TEMPER COPPER WATER TUBE COMPLYING WITH ASTM B88. ALL FITTINGS SHALL BE WROUGHT COPPER COMPLYING WITH USASI B16.1B & B16.1BA. DIELECTRIC COUPLINGS SHALL BE USED BETWEEN STEEL AND COPPER CONNECTIONS. ALL BELOW GROUND WATER SUPPLY PIPE SHALL BE TYPE K COPPER WATER TUBE. PROVIDE 95-5 LEAD-FREE, SILVER SOLENOID JOINTS.

STORM, SANITARY WASTE AND VENT PIPING:
ALL ABOVE GROUND STORM, SANITARY WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV PIPE AND FITTINGS (ASTM D2665) WITH SOLVENT WELD JOINTS. ALL BELOW GROUND SANITARY SOIL AND WASTE PIPING SHALL BE SCHEDULE 40 PVC-DWV PIPE FITTINGS (AST D2665) WITH SOLVENT WELD JOINTS.

PIPE HANGERS AND SUPPORT:
SUPPORT HORIZONTAL PIPING ADEQUATELY FROM SLABS OR OTHER STRUCTURAL MEMBERS AT INTERVALS SPECIFIED BELOW. USE GRINNELL #260 HANGERS OR APPROVED EQUAL, HAVING ADJUSTABLE WROUGHT CLEVIS, SOLID RODS AND SOCKETS. PIPING INSTALLED ALONG WALLS SHALL BE SUPPORTED BY GRINNELL #199, OR APPROVED EQUAL, STEEL ANGLE BRACKETS. THE SPACING OF PIPE SUPPORTS FOR STEEL PIPE 3/4" TO 2" SHALL BE 10'-0" AND FOR COPPER PIPE SIZE UP TO 2" SHALL BE 6'-0". HANGERS IN CONTACT WITH COPPER SHALL BE PLASTIC PLATED AND SHALL BE EQUAL TO GRINNELL FIGURE CT-65. HANGER RODS SHALL BE 3/8" DIAMETER FOR PIPES UP TO 2" IN SIZE.

PIPE SLEEVES AND OPENINGS:
THE CONTRACTOR SHALL CUT ALL OPENINGS IN FLOORS AND WALLS REQUIRED FOR PENETRATION OF PIPING. PATCH ALL OPENINGS FOR SOUND DEADENING AND FIRE SEPARATION. GENERAL CONTRACTOR SHALL PERFORM ALL FINISH PATCHING AS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. ALL HORIZONTAL PIPING WHICH PENETRATES WALLS SHALL BE FITTED WITH PIPE SLEEVES MADE UP OF SIMILAR MATERIALS AS PIPE, 1" GREATER IN DIAMETER THAN OUTSIDE DIAMETER OF PIPE AND PIPE INSULATION. THE VOID BETWEEN PIPE AND SLEEVE SHALL BE SEALED WITH ROPE AND FILLED WITH NON-SHRINKING CEMENT. SLEEVES SHALL BE SUCH LENGTH THAT THEY END FLUSH WITH WALL FINISH ON BOTH SIDES OF WALL. PROVIDE RATED PENETRATIONS OF ALL WALLS AND FLOORS AS REQUIRED TO MAINTAIN THE RATING OF THE WALL OR FLOOR PENETRATED.

WHERE UNCOVERED EXPOSED PIPES PASS THRU WALLS, THEY SHALL BE FITTED WITH CRANE #10, OR EQUAL, WALL ESCUTCHEON PLATES. SLEEVES THROUGHT WATER PROOF FLOORS SHALL EXTEND 2" ABOVE FINISHED FLOOR.

VALVES:
THE CONTRACTOR SHALL FURNISH AND INSTALL VALVES WHERE INDICATED ON PLAN AND NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. PROVIDE VALVES RATED FOR 125 PSI OR GREATER WORKING PRESSURE IN WATER PIPING.

CHECK VALVE UP TO 3"	APOLLO 61-109 61-500 OR NIBCO T-413-13
GLOBE VALVE UP TO 3"	CRANE NO. 1240, 1241 OR EQUAL
GATE VALVE UP TO 3"	CRANE NO. 42B, 1334 OR EQUAL
BALL VALVE UP TO 3"	APOLLO SERIES 82-100 OR 82-200FULLPORT
TEMP. & PRESS. RELIEF VALVE	WATTS 10L MOD.M4, OR EQUAL,3/4"Mx3/4"F
WATER HAMMER ARRESTOR	WADE #10 (HOT), WADE #5 (COLD)
BACKFLOW PREVENTER	WATTS NO. 9D OR EQUAL
VACUUM RELIEF VALVE	WATTS NO. 36A - 3/4" OR EQUAL
PRESSURE REDUCING VALVE	WATTS NO. U5
TRAP PRIMER VALVE	JR SMITH

INSULATION:
INSULATION SHALL BE REQUIRED ON ALL HOT SURFACES TO RETARD UNDESIRABLE HEAT TRANSFER AND PREVENT CONDENSATION. INSULATION SHALL BE APPLIED TO PIPE LINES AND EQUIPMENT ONLY AFTER THEY HAVE BEEN TESTED, INSPECTED AND ALL SURFACES THOROUGHLY CLEANED OF ALL MOISTURE, FOREIGN MATERIAL, GREASE AND RUST. INSULATION SHALL BE CONTINUOUS THROUGH WALLS, FLOORS, PARTITIONS, SLEEVES, ETC...EXCEPT WHERE OTHERWISE INDICATED OR SPECIFIED. ALL INSULATION ADHESIVES, SEALERS AND COATINGS SHALL HAVE A FIRE HAZARD RATING NOT TO EXCEED 25/50/50 FLAME SPREAD, FUEL CONTRIBUTED AND SMOKE DEVELOPED IN ACCORDANCE WITH UL 723 AND ASTM-E84. PROVIDE INSULATION FOR HOT WATER PIPING.

PIPE INSULATION SHALL BE 1" THICK RIGID FIBERGLASS WITH SELF-SEALING LAP AND ALL SERVICES JACKET OR APPROVED EQUAL.

INSULATION SHALL BE REQUIRED AT ALL ADA ACCESSIBLE LAVATORIES TO PROTECT AGAINST CONTACT OF HOT WATER AND DRAIN PIPES. INSULATE TRAP AND BOTH SUPPLIES WITH A HIGH IMPACT STAIN RESISTANT, PREMOLDED VINYL COVERING AS MANUFACTURED BY TRUEBRO 'HANDY-LAVGUARD', McGUIRE OR BROCAR 'TRAP-WRAP'.

PLUMBING FIXTURES:
ALL VENT & WATER PIPING SHALL RUN ABOVE FLOOR OF PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. ALL SANITARY DRAIN AND WASTE PIPING SHALL RUN BELOW FLOOR OF PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. P-1, FD-1, ETC...REFER TO FIXTURES LISTED IN SCHEDULES AND LOCATED ON THE PLANS.

PLUMBING PIPING SCHEDULE

TYPE / LOCATION	DOM / LAB COLD WATER	DOM / LAB HOT WATER	DRAIN, WASTE & VENT	STORM WASTE	CONDENSATE WASTE	COMPRESSED AIR	NATURAL GAS	VACUUM AIR	ACID WASTE & VENT	RO / DI WATER
ABOVE GROUND	CPVC	CPVC	PVC	PVC	PVC	TYPE 'L' COPPER	BLACK STEEL	TYPE 'K' COPPER	POLY-PROPYLENE	LOW EXTRACT PVC
BELOW GROUND	CPVC	CPVC	PVC	PVC	PVC	---	BLACK STEEL	---	---	---
EXPOSED (PUBLIC)	TYPE 'L' COPPER	TYPE 'L' COPPER	TYPE 'L' COPPER	CAST IRON	TYPE 'L' COPPER	TYPE 'L' COPPER	BLACK STEEL	TYPE 'K' COPPER	POLY-PROPYLENE	LOW EXTRACT PVC
AREA UNDERGROUND SUBJECT TO STRESS (THRU FOOTING)	STEEL	STEEL	DUCTILE IRON	DUCTILE IRON	STEEL	---	BLACK STEEL	---	---	---

NOTES:
1. INSULATE THE FOLLOWING PIPING SYSTEMS WITH 1" THICK INSULATION.
   A. HOT WATER PIPING
   B. CONDENSATE WASTE PIPING
   C. STORM WATER PIPING (INCLUDING ROOF DRAIN SUMP)
2. ACID WASTE PIPING SHALL EXTEND FROM LAB SINK TO ACID DILUTION TANK. DMV PIPING SHALL EXTEND FROM ACID DILUTION TANK TO SANITARY WASTE SYSTEM.

GENERAL NOTES

1. THE TERM "CONTRACTOR" USED THROUGHOUT THE DESIGN CRITERIA PACKAGE DOCUMENTS (DCP) SHALL MEAN THE 'DESIGN BUILDER" FOR THE PROJECT. THE DESIGN CRITERIA PACKAGE DOCUMENTS SHALL INCLUDE ALL DRAWINGS, SPECIFICATIONS, AND CONTRACT REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROPOSED GA TERMINAL AND RELATED WORK. THE DESIGN CRITERIA PACKAGE DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL ESTABLISH THE BASE LINE STANDARD FOR THE PROJECT. THE DESIGN BUILDER MAY SUBMIT SUBSTITUTIONS FOR CONSIDERATION BY THE OWNER AND THE DESIGN CRITERIA PROFESSIONAL AS OUTLINED IN THE DIVISION 01 SPECIFICATION. AND THE PROCUREMENT DOCUMENTS.
2. REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STATNDARDS.
3.. THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
4. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
5. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
6. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
7. PROVIDE ACCESS DOOR / PANEL FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
8. SLEEVE ALL PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS. SLEEVE AND / OR FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRE STOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
9. FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
10. WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE STRUCTURAL ENGINEER BEFORE ANY PENETRATIONS ARE MADE.
11. PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
12. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
13. PROVIDE AUTOMATIC TRAP PRIMERS FOR ALL FLOOR DRAINS.
14. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
15. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREA'S SHALL BE CHROME PLATED.
16. MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE. PROVIDE EACH HOSE BIBBS WITH ISOLATION VALVE.
17. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
18. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
19. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
20. ALL WALL MOUNTED LAVATORIES, WATER COOLERS AND OTHER WALL MOUNTED FIXTURES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE. CONCEALED FLOOR MOUNTED CARRIERS SHALL BE FURNISHED AND INSTALLED.
21. PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
22. INSTALL ISOLATION / SHUT-OFF VALVES AT ALL MAIN RISERS AND MAIN BRANCH TAKEOFFS, TO PERMIT ISOLATION OF PIPING SECTIONS OR ENTIRE SYSTEM.
23. PROVIDE RIGID SUPPORT SWAY BRACING AT ALL CHANGES IN DIRECTION GREATER THAN 45 DEGREE ON PIPING 4" AND LARGER.
24. PROVIDE WATER HAMMER ARRESTOR ON ALL COLD AND HOT WATER LINES SERVING FIXTURES USING FLUSH VALVES, SOLENOID VALVES OR QUICK CLOSING DEVICES. ARRESTORS SHALL BE SIZED IN ACCORDANCE WITH P.D.I. STANDARDS FOR THE TOTAL NUMBER OF FIXTURES SERVED.
25. ALL PIPING SHALL BE PROTECTED FROM THE INSTRUSION OF WATER, DUST, DIRT, DEBRIS, ETC. WHILE STORED ON SITE AND DURING CONSTRUCTION.
26. ALL EXTERIOR HARDWARE SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
27. ALL ADA ACCESSIBLE TOILET FIXTURES SHALL BE INSTALLED WITH FLUSH VALVES ON THE APPROACH SIDE OF THE FIXTURE AND THE FIXTURES SHALL BE LOCATED TO COMPLY WITH ADA DIMENSION AND SPACING REQUIREMENTS.
28. ALL SHOWER FIXTURES SHALL BE PROVIDED WITH ADA CONTROLS AND ADJ. SHOWER HEAD AND INSTALLED TO COMPLY WITH ADA DIMENSION AND SPACING REQUIREMENTS.

PLUMBING SYMBOL LEGEND

Symbol	Description
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATING
G	GAS
GR	KITCHEN WASTE (GREASE)
S	SANITARY PIPING
	SANITARY VENT
ST	ABOVE GROUND STORM
STO	OVERFLOW STORM DRAIN
CD	CONDENSATE DRAIN
CA	COMPRESSED AIR
M	WATER METER
	HOSE BIBB OR WALL HYDRANT WITH VALVE IN RISER
	HOSE BIBB OR WALL HYDRANT WITH VALVE
	CLEAN OUT PLUG
	WALL CLEAN OUT
	FLOOR CLEAN OUT
FD	FLOOR DRAIN
RD	ROOF DRAIN (ABOVE)
FS	FLOOR SINK
	SHUT-OFF VALVE IN VALVE BOX
	SHUT-OFF VALVE
	BALL VALVE
	CALIBRATED BALANCING VALVE
	CHECK VALVE (SWING)
	PRESSURE REDUCING VALVE
S	SOLENOID OPERATED VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER
	RELIEF OR SAFETY VALVE
	GAS COCK
	GAS PRESSURE REGULATOR
	CONNECTION, TOP
	CONNECTION, BOTTOM
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	TEE, TURNED UP
	TEE, TURNED DOWN
	CAP
	DIRECTION OF FLOW
	COMPRESSED AIR PRESSURE REGULATOR
TP FD	1/2" LINE TO PRIMER
	CODED OR KEY NOTES
1	REVISION REFERENCE
1 / P-1	DETAIL REFERENCE: TOP DETAIL NUMBER, BOTTOM DRAWING NUMBER SHOWN ON

SHEET INDEX

SHEET NUMBER	SHEET NAME
P-000	PLUMBING LEGEND AND NOTES
P-001	PLUMBING FIXTURE SCHEDULE
P-201	GRAVITY FLOOR PLAN - AREA A
P-202	GRAVITY FLOOR PLAN - AREA B
P-301	PRESSURE FLOOR PLAN - AREA A
P-302	PRESSURE FLOOR PLAN - AREA B

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Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
Z.H.	Z.H.	R.F.W.

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
PLUMBING LEGEND AND NOTES

Project Number: No. 161641
Division : Architecture
Date: 11/15/17
Drawing Number: P-000

ELECTRIC WATER HEATER SCHEDULE

MARK	EWH-1	IWH-1
KW	-	-
KW PER ELEMENT	-	-
NUMBER OF ELEMENTS	-	-
ELEMENT OPERATION	NON-SIM	INSTANT
RECOVERY (GPH)@60°F	-	-
STORAGE(GALLONS)	40	-
STORAGE TEMP(°F)	-	-
SIZE(D"xH")	-	-
VOLTS/PHASE/HERTZ	-	-
SHIPPING WEIGHT(LBS)	-	-
MANUFACTURER	-	-
MODEL NUMBER	-	-
ASME APPROVED	-	-

RECIRCULATING PUMP SCHEDULE

MARK	MANUFACTURER	MODEL NO.	GPM	HEAD (FT.)	HP	VOLTAGE
RCP-1	TACO	1400-40B	5	18	1/6	120V/1
NOTE: PROVIDE ALL BRONZE PUMP						

S-1 SINK

UNDERMOUNT, SINGLE BOWL, #18 GAUGE, TYPE 304 STAINLESS STEEL W/DROP LEDGE.

SINGLE HANDLE ARE PULLDOWN KITCHEN FAUCET, 1.5 GPM.

DRAIN STAMPED BRASS DRAIN, WITH STOP VALVES AND SUPPLIES.

BASIS OF DESIGN

ELKAY: ELUH3116
MOEN: 7590
ELKAY: LK18

EWC-1 ACCESSIBLE ELECTRIC WATER COOLER

ELKAY BARRIER-FREE STAINLESS STEEL WATER FOUNTAIN RECESSED IN THE WALL SYSTEM INCLUDES STAINLESS STEEL PLATE & LOUVER/GRILL, MF200 MOUNTING FRAME & EWF172 WATER FILTER. WHEN ORDERING THE SUPPLIER NEEDS TO UNDERSTAND LESS THE CHILLER UNIT. PLUMBING AND ELECTRICAL NEEDS TO PROVIDE FOR FUTURE CHILLER UNIT.
115V,
60 HZ SINGLE PHASE.

CANE APRON ACCESSORY

BASIS OF DESIGN

ELKAY: LRPBM28K (LESS THE CHILLER)
ELKAY: LKAPR1

SH-1 SHOWER

PRESSURE BALANCE SHOWER VALVE WITH STOPS
WALL SUPPLY
HAND HELD SHOWER SYSTEM
30" STAND SLIDE BAR
69" METAL HOSE
IN-LINE VACUUM BREAKER

SHOWER PAN LINER TO BE PROVIDED BY THE PLUMBING CONTRACTOR AND INSTALLED IN ACCORDANCE WITH FBC - PLUMBING 2014 CODE SECTION 417.5.2 AND MANUFACTURERS RECOMMENDATIONS. ENSURE GRAB BAR IS HEAVY DUTY AS WELL AS ADA COMPLIANT AND MEETS ALL FEDERAL, STATE, AND LOCAL REGULATIONS)

SQUARE DRAIN, 3-3/4", SATIN NICKEL GRATE, INCLUDES GRATE PULLER

SHOWER FLOOR & WALLS, GRAB BARS AND FOLD-UP SEAT BY G.C.

BASIS OF DESIGN

MOEN: 8346
EBBE: E4410

MS-1 MOP SINK

MOLDED STONE, FLOOR MOUNTED 24"x24"x10" MOP SERVICE BASIN

FAUCET SHALL BE POLISHED CHROME FINISH WITH WRIST BLADES INTEGRAL STOPS, ADJUSTABLE WALL BRACKET, $\frac{3}{4}$" HOSE THREAD ON SPOUT, AND INTEGRAL VACUUM BREAKER

BASIS OF DESIGN

FIAT MSB: 24x24
FAUCET: 830-AA
STRAINER: 1453-BB
B GUARD: E88AA-24
FAUCET: 832-AA
MOP HANGER: 889-CC
W GUARDS: MSG 2424

FD-1 FLOOR DRAIN

COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION AND ADJUSTABLE TYPE "B" NICKEL BRONZE STRAINER, 6" ROUND TOP, TAPPED FOR TRAP PRIMER CONNECTION, VANDAL PROOF.

BASIS OF DESIGN

WATTS - FD-200-A

HB-1 INDOOR HOSE BIBB

EXPOSED CHROME FREEZELESS WALL HYDRANT, VACUUM BREAKER BACKFLOOR PREVENTER, 3/4" FEMALE PIPE THREAD CONNECTION AND LOOSE TEE KEY HANDLE.

BASIS OF DESIGN

WOODFORD 65-3/4"

RD-1 ROOF DRAIN WITH OVERFLOW

CAST IRON BODY AND DOME STRAINER. SINGULAR ROOF PENETRATION FOR BOTH PRIMARY AND OVERFLOW DRAINAGE.

STAINLESS STEEL BOLTS, NUTS, AND WASHERS SHALL BE USED FOR INSTALLATION.

BASIS OF DESIGN

ZURN - Z103

WC-1 FLOOR MOUNTED TANK TYPE WATER CLOSET STANDARD HEIGHT

TANK TYPE TOILET, VITREOUS CHINA, FULL FLUSH 1.6 GAL. PARTIAL FLUSH 1.1GAL. ULTRA DUAL FLUSHING SYSTEM, 14 $\frac{1}{2}$" RIM HEIGHT ELONGATED SIPHON ACTION JETTED BOWL, FULLY GLAZED 3" TRAPWAY WITH 3" BALL PASS, CHROME TRIP LEVER ON WIDE SIDE.

WHITE OPEN FRONT SEAT LESS COVER, ANTIMICROBIAL.

BASIS OF DESIGN

GERBER: DF-21-312
BEMIS: 1955CT

WC-2 FLOOR MOUNTED TANK TYPE WATER CLOSET ACCESSIBLE HEIGHT

TANK TYPE TOILET, VITREOUS CHINA, FULL FLUSH 1.6 GAL. PARTIAL FLUSH 1.1GAL. ULTRA DUAL FLUSHING SYSTEM, 17" RIM HEIGHT ELONGATED SIPHON ACTION JETTED BOWL, FULLY GLAZED 3" TRAPWAY WITH 3" BALL PASS, CHROME TRIP LEVER ON WIDE SIDE.

WHITE OPEN FRONT SEAT LESS COVER, ANTIMICROBIAL.

BASIS OF DESIGN

GERBER: DF-21-318
BEMIS: 1955CT

WC-3 FLOOR MOUNTED FLUSH VALVE WATER CLOSET STANDARD HEIGHT

FLUSH VALVE TYPE TOILET, VITREOUS CHINA, FULL FLUSH 1.6 GAL. 14 1/2" RIM HEIGHT ELONGATED SIPHON ACTION JETTED BOWL, FULLY GLAZED 3" TRAPWAY WITH 3" BALL PASS, CHROME TRIP LEVER ON WIDE SIDE.

WHITE OPEN FRONT SEAT LESS COVER ANTIMICROBIAL.

CONFIRM BATTERY OR HARDWIRED FLUSH VALVE WITH OWNER.

BASIS OF DESIGN

GERBER: xxxxxxxxx
BEMIS: 1955CT

WC-4 FLOOR MOUNTED FLUSH VALVE WATER CLOSET STANDARD HEIGHT

FLUSH VALVE TYPE TOILET, VITREOUS CHINA, FULL FLUSH 1.6 GAL. 17" RIM HEIGHT ELONGATED SIPHON ACTION JETTED BOWL, FULLY GLAZED 3" TRAPWAY WITH 3" BALL PASS, CHROME TRIP LEVER ON WIDE SIDE.

WHITE OPEN FRONT SEAT LESS COVER ANTIMICROBIAL.

CONFIRM BATTERY OR HARDWIRED FLUSH VALVE WITH OWNER.

BASIS OF DESIGN

GERBER: xxxxxxxxx
BEMIS: 1955CT

U-1 WALL HUNG URINAL
U-2

LOW-CONSUMPTION (0.125), WITH INTEGRAL FLUSHING RIM, WASHOUT FLUSH ACTION, OUTLET THREADED FOR 2" FEMALE CONNECTION INTEGRAL TRAP, AND ZURN OR SMITH CONCEALED WALL HANGERS AND 2 IN. FEMALE FLANGED OUTLET CONNECTIONS.

EXPOSED $\frac{3}{4}$" IN TOP SPUD FLUSH VALVE VACUUM BREAKER, WALL & SPUD FLANGES, ANGLE STOP VALVE WITH VANDAL RESISTANT CAP, ADJUSTABLE TAILPIECE, AND ELECTRONIC INFRARED SENSOR WITH TRUEPOINT TECHNOLOGY WITH 1.5V. AA BATTERY.

WALL URINAL SUPPORT SYSTEM ITH TOP SUPPORT PLATE, COMPLETE WITH DURA-COATED RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATE, AND MOUNTING FASTENERS.

CONFIRM BATTERY OR HARDWIRED FLUSH VALVE WITH OWNER.

U-1 - WALL HUNG URINAL STANDARD HEIGHT
U-2 - WALL HUNG URINAL ACCESSIBLE HEIGHT

BASIS OF DESIGN

KOHLER: K-4904-ET
KOHLER: K-10668-CP
ZURN: Z1221

L-1 WALL MOUNTED LAVATORY
L-2

22" DEEP21-1/4" WIDE, WALL HUNG LAVATORY, VITREOUS CHINA, REAR OVERFLOW, RECESSED SELF-DRAINING DECK, SUPPORTED FORM FLOOR (WITHSTANDING 250# OF LOAD APPLIED ON FRONT OF THE FIXTURE)

VITREOUS CHINA SHROUD/KNEE CONTACT GUARD

SENSOR ACTIVATED ELECTRONIC HAND WASHING FAUCET WITH INTEGRAL MANUAL SPOUT TEMPERATURE MIXER, HOT & COLD, 0.5 GPM. CONFIRM BATTERY OR HARDWIRED WITH OWNER.

-LAVATORY SUPPORT SYSTEM WITH CONCEALED ARMS, COMPLETE WITH DURA-COATED RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATE, AND MOUNTING FASTENERS.

CONFIRM BATTERY OR HARDWIRED FAUCET WITH OWNER.

L-1 - WALL HUNG LAVATORY STANDARD HEIGHT
L-2 - WALL HUNG LAVATORY ACCESSIBLE HEIGHT

BASIS OF DESIGN

AMERICAN STANDARD: 0954.000
AMERICAN STANDARD: 0059.020
SLOAN: EAF-150-ISM-EAF-12
ZURN: Z-1231

L-3 UNDERCOUNTER MOUNTED LAVATORY

SENSOR ACTIVATED ELECTRONIC HAND WASHING FAUCET WITH INTEGRAL MANUAL SET SPOUT TEMPERATURE MIXER, HOT & COLD 0.5 GPM.

CONFIRM BATTERY OR HARDWIRED FAUCET WITH OWNER.

BASIS OF DESIGN

SLOAN: EAF-150-ISM-EAF-12

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Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by: Designer | Drawn by: Author | Checked by: Checker

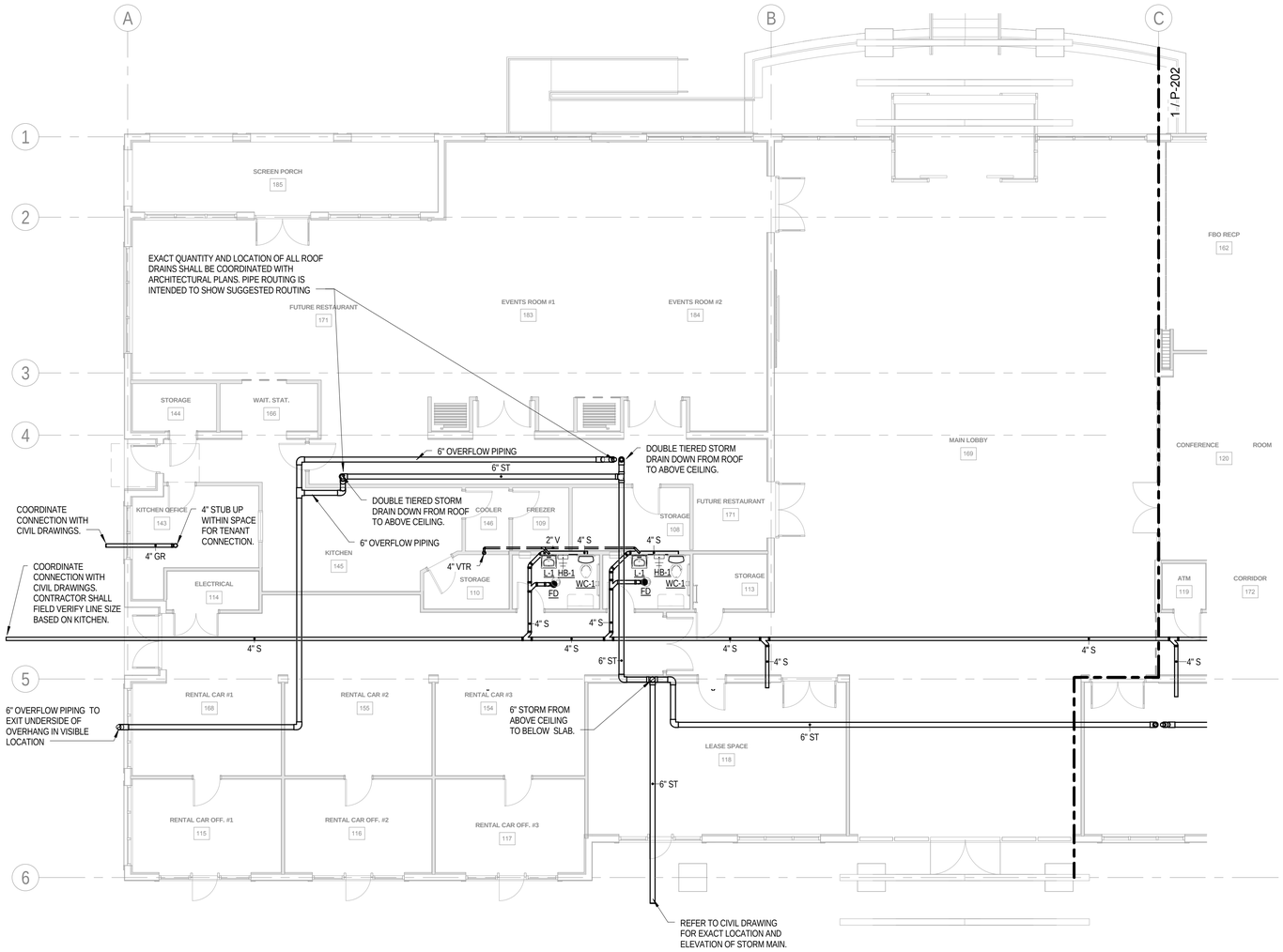
Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
PLUMBING FIXTURE SCHEDULE

Project Number: No. 161641 | Division : Architecture

Date: 11/15/17

Drawing Number:
P-001



1 GRAVITY FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"
SCALE: 0' - 0 1/8" = 1' - 0"

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Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
Z.H.	Z.H.	R.F.W.

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

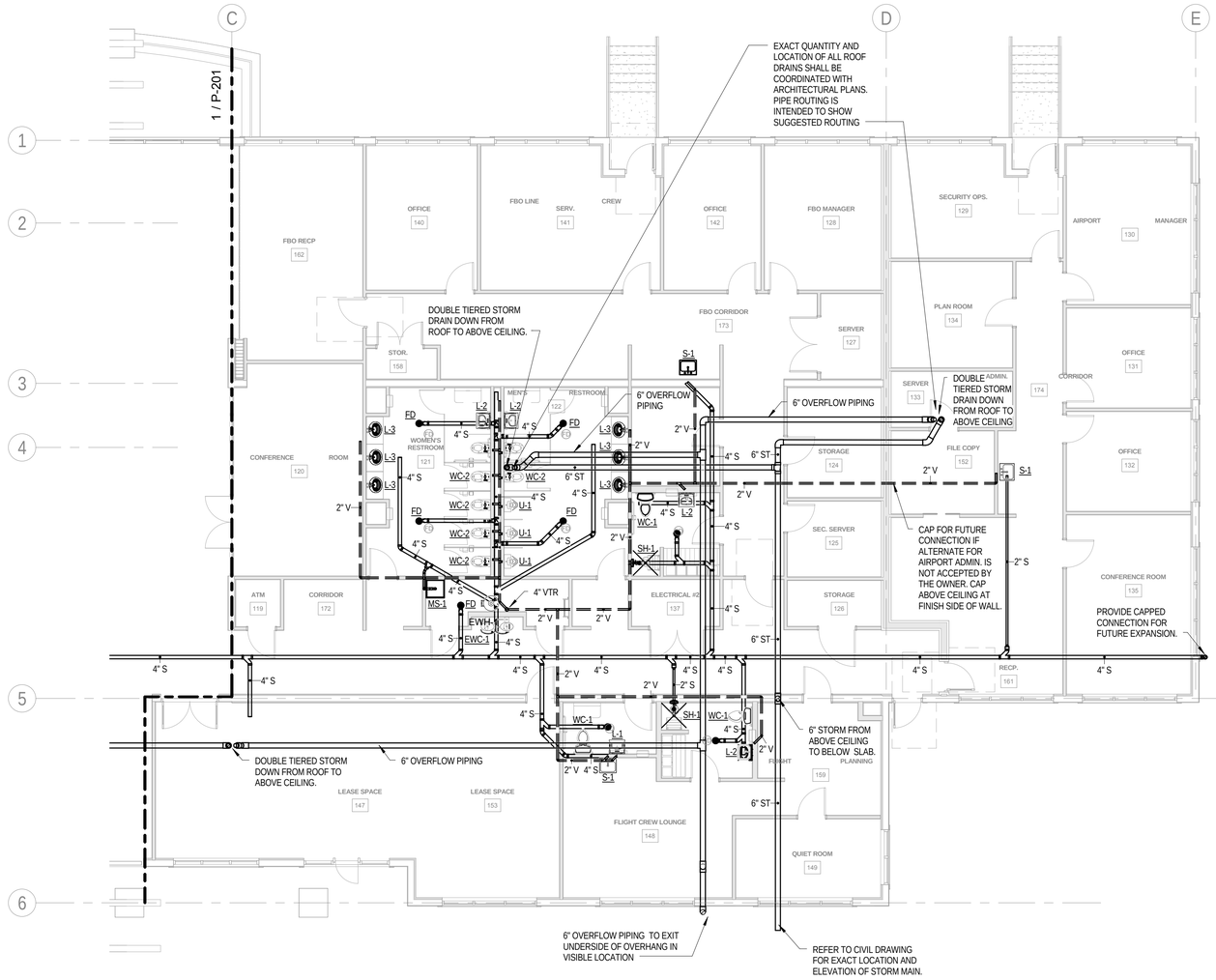
GRAVITY FLOOR PLAN - AREA A

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:

P-201



1 GRAVITY FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"
SCALE: 0' - 0 1/8" = 1' - 0"

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Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
Z.H.	Z.H.	R.F.W.

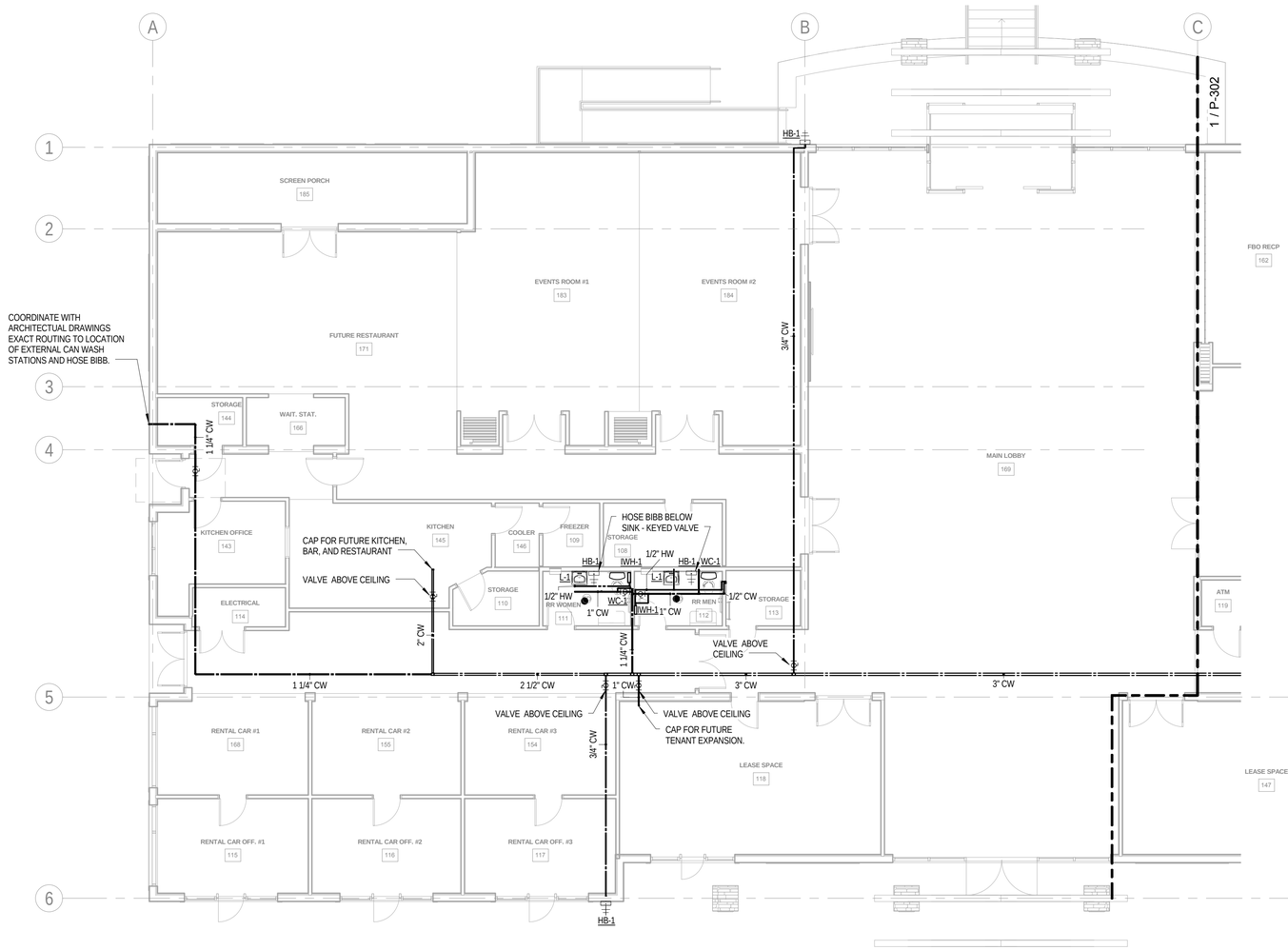
Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
GRAVITY FLOOR PLAN - AREA B

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:
P-202



1 PRESSURE FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"
SCALE: 0' - 0 1/8" = 1' - 0"

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November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
Z.H.	Z.H.	R.F.W.

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

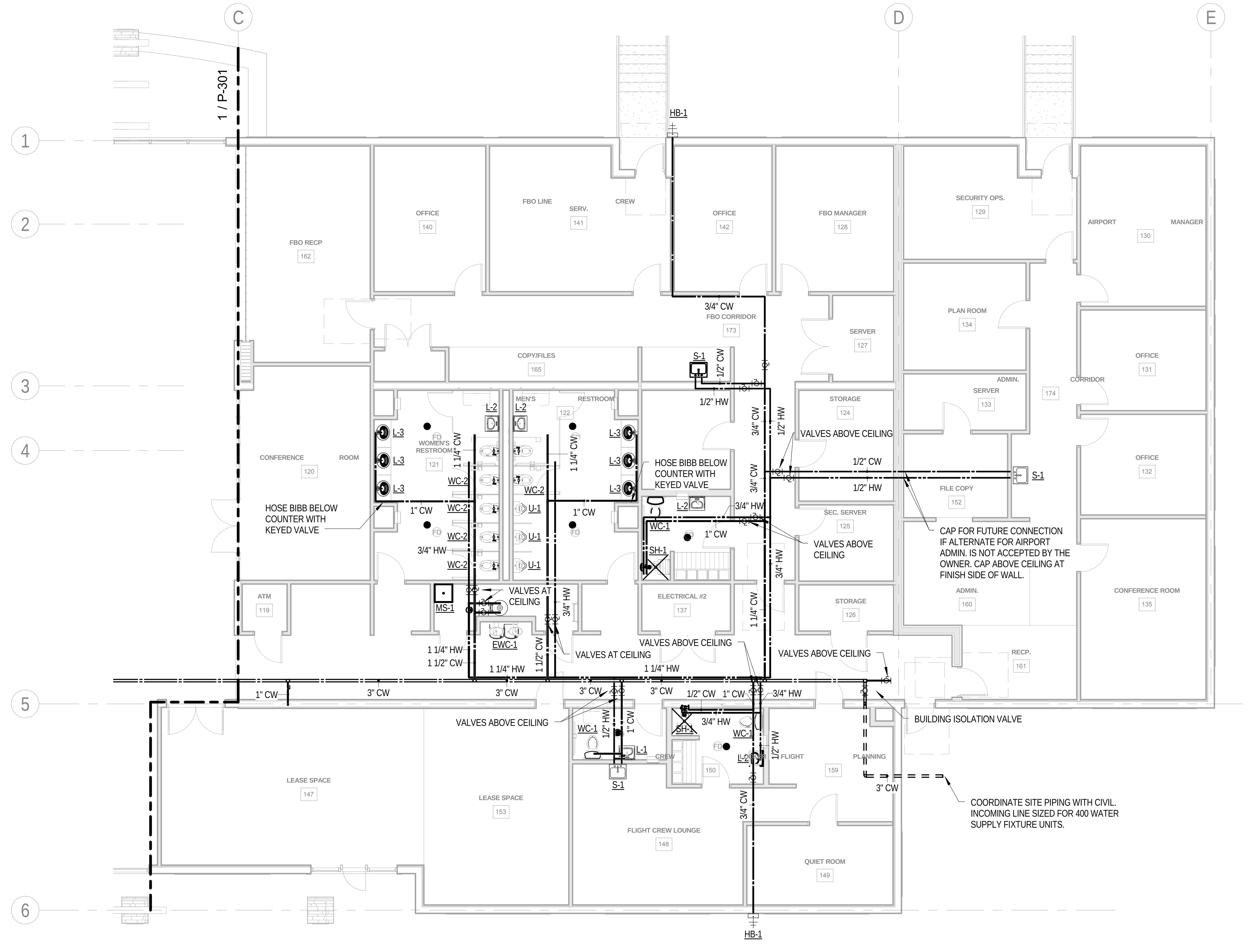
PRESSURE FLOOR PLAN - AREA A

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:

P-301



1 PRESSURE FLOOR PLAN - AREA B

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

0 4' - 0" 8' - 0" 16' - 0"

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

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November 15, 2017

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No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
Z.H.	Z.H.	R.F.W.

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

PRESSURE FLOOR PLAN - AREA B

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:

P-302

FIRE PROTECTION SYSTEM SPECIFICATIONS

GENERAL PROVISIONS:

1.01 RELATED DOCUMENTS:
A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTAL CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.02 REGULATIONS AND PERMITS:
A. ALL WORK SHALL BE IN ACCORDANCE WITH TERMS AND CONDITIONS OF THE CONTRACT DOCUMENTS.
B. ALL WORK SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS:
1. FLORIDA BUILDING CODE 2014
2. FLORIDA FIRE PREVENTION CODE 2014
3. EDITIONS OF THE NFPA NATIONAL FIRE CODES (NFPA) OR THE LATEST REVISIONS OF THESE CODES AS ADOPTED BY THE AUTHORITY HAVING LAWFUL JURISDICTION, AS FOLLOWS: NFPA - FIRE SPRINKLER SYSTEM: THE FIRE SPRINKLER PROTECTION SYSTEMS INSTALLATION, FLUSHING AND TESTING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 13, 24 AND 25.
4. PIPE THREAD PATTERN: ALL THREADS SHALL BE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT SPECIFICATIONS AND NFPA 1963.
5. UL / FM APPROVAL: ALL EQUIPMENT, PIPING, FITTINGS, VALVES, COUPLINGS, HANGERS AND DEVICES SHALL BE APPROVED BY UNDERWRITERS' LABORATORY (UL) AND FACTORY MUTUAL (FM) FOR USE IN FIRE PROTECTION SERVICE.
6. LICENSER: THE FIRE PROTECTION SYSTEMS SHALL BE INSTALLED BY A STATE OF FLORIDA LICENSED FIRE PROTECTION CONTRACTOR.
C. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND PAY FOR ALL FEES, CHARGES AND PERMITS REQUIRED, AS WELL AS FOR ALL HAULING, RIGGING AND TRANSPORTATION CHARGES.

1.03 DESCRIPTION OF WORK:
A. THE WORK INCLUDED IN THIS SECTION SHALL COMPRISE ALL LABOR, MATERIALS, EQUIPMENT, MACHINERY AND SERVICE INCIDENTAL TO THE DEMOLITION AND WORK TO KEEP EXISTING AREAS INOPERATION.
B. THE CONTRACTOR SHALL LAY OUT HIS OWN WORK AND COORDINATE HIS WORK WITH THAT OF OTHER TRADES AND BE RESPONSIBLE FOR ALL MEASUREMENTS.
C. ALL WORK SHALL BE SUBJECT TO APPROVAL OF OWNER OR HIS REPRESENTATIVE.
D. THE FIRE PROTECTION CONTRACTOR SHALL SURVEY SITE AND STUDY CONTRACT DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION. ALL PROBLEMS CONCERNING COORDINATION OF DIFFERING TRADES, INTERFERENCE, LACK OF CEILING CAVITY SPACE OR ANY PROBLEMS IN UNDERSTANDING THE SPECIFICATIONS HEREIN AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER PRIOR TO CONSTRUCTION.
E. THE FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY ALL BUILDING CONDITIONS PRIOR TO START OF WORK. ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND WHAT IS SHOWN ON PLAN THAT AFFECT THE WORK SHALL BE BROUGHT TO THE ARCHITECT / ENGINEER'S ATTENTION IMMEDIATELY.
F. CONTRACTOR SHALL CHECK SIZE OF ENTRANCE WAYS TO MAKE SURE SUFFICIENT SPACE IS AVAILABLE FOR ENTRANCE OF EQUIPMENT.
G. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING FIRE PROTECTION SYSTEMS INDICATED ON THE DRAWINGS AND WITHIN THIS SPECIFICATION SECTION.

1.04 PRODUCT HANDLING:
A. ALL MATERIALS SHALL BE HANDLED AND STORED IN A MANNER SOAS TO PREVENT DAMAGE. MATERIALS SHALL BE STORED UNDER COVER AND ABOVE GROUND. ALL PRODUCTS SHALL BE SHIPPED TO THE JOB SITE IN UNOPENED CARTONS, CONTAINERS, ETC., AS RECEIVED FROM THE MANUFACTURER.
B. CODES AND STANDARDS: ALL FIRE PROTECTION WORK SHALL BE IN STRICT COMPLIANCE WITH NFPA 13 & 14, FLORIDA LIFE SAFETY CODE AND ALL LOCAL CODES HAVING JURISDICTION.
C. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEEDS, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE FABRICATION OR INSTALLATION. OFFSETS AND / OR TRANSITIONS REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL COST. CONTRACTOR SHALL COORDINATE AND INSTALL HIS WORK IN A TIMELY MANNER TO PREVENT DELAYS IN THE CONSTRUCTION. PROVIDE ALL MATERIALS REQUIRED TO PROPERLY SUPPORT ALL PIPING AND EQUIPMENT. PIPE HANGERS SHALL BE ADJUSTABLE TYPE AND BE SPACED IN ACCORDANCE WITH THE NFPA 13 CODE.

PRODUCTS:
2.01 MANUFACTURER:
A. SINGLE MANUFACTURER: ALL ITEMS OF A SIMILAR TYPE SHALL BE BY THE SAME MANUFACTURER.

2.02 SPRINKLER HEADS:
A. PROVIDE SPRINKLER HEADS OF PROPER TYPES, RATINGS AND SPACING FOR THE AREAS INVOLVED AS INDICATED ON THE SPRINKLER LEGEND LOCATED ON THE DRAWINGS. PROVIDE APPROPRIATE FINISHES COMPATIBLE WITH SPACE FINISHES BEING SERVED. ACCEPTABLE MANUFACTURERS: VIKING, GRINNELL, AUTOMATIC SPRINKLER, CENTRAL, STAR AND RELIABLE VICTAULIC.

B. SPARE FIRE SPRINKLER HEAD CABINET: PROVIDE SUFFICIENT SPARE SPRINKLER HEAD CABINETS TO STORE THE REQUIRED QUANTITIES OF SPRINKLER HEADS. STORAGE CABINETS SHALL BE RED GLOSS, POLYESTER-COATED STEEL CONSTRUCTION. PROVIDE A MINIMUM OF SIX SPARE HEADS OF EACH TYPE AND EACH DIFFERENT TEMPERATURE RATING INSTALLED; PROVIDE 2 INSTALLATION TOOLS OR WRENCHES WITH EACH DIFFERENT TYPE OF SPRINKLER HEAD. CABINET SHALL HAVE A CATCH-LOCK AND CONTINUOUS PIANO HINGE. LOCATE THE SPARE SPRINKLER HEAD CABINET AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

2.03 PIPE AND FITTINGS:
A. ABOVE GROUND PIPE AND FITTINGS:
1. PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE CONFORMING TO ASTM A135 OR ASTM A53 AND SCHEDULE 10, ASTM A135.
2.THREADABLE THIN WALL BLACK STEEL PIPE CONFORMING TO ASTM A135 OR ASTM 795 WITH A CORROSION RESISTANCE RATING (CRR) OF 1.0 OR GREATER AS MANUFACTURED BY AMERICAN TUBE COMPANY, DYNA-THREAD 40 OR EQUIVALENT.
3. FITTINGS:
A. CAST IRON THREADED FITTINGS, ANSI B16.4, CLASS 125
B. CAST IRON FLANGED FITTINGS, ANSI B16.1, CLASS 125
C. MECHANICAL JOINT, GROOVED COUPLINGS AS MANUFACTURED BY VICTAULIC, ANVIL OR CENTRAL. ALL GROOVE COUPLINGS AND FITTINGS SHALL BE FURNISHED BY A SINGLE MANUFACTURER.

2.04 SUPERVISORY SWITCHES AND WATER FLOW DEVICES:
A. ACCEPTABLE MANUFACTURERS: POTTER ELECTRIC SIGNAL CO., POTTER-ROEMER, SIMPLEX, GEM.
B. GATE VALVE TAMPER SWITCH: PROVIDE AN ELECTRONIC SUPERVISORY TAMPER SWITCH ON EACH ISOLATION VALVE IN THE SPRINKLER SYSTEM. UNIT SHALL HAVE A RED TAMPER-PROOF COVER, WHICH WILL ACTIVATE AN ALARM OR TROUBLE SIGNAL WHEN ADJUSTED. PROVIDE UNIT WITH SINGLE-POLE, DOUBLE THROW SWITCHES AND MOUNTING BRACKET, POTTER ELECTRIC SIGNAL CO. OSYSU-1
C. FLOW SWITCH: PROVIDE AN ELECTRIC FLOW SWITCH WHERE INDICATED OR REQUIRED. FLOW SHALL BE SENSED BY AN IMMERSION PADDLE WITH AN ADJUSTABLE RETARD SETTING FROM 0 TO 70 SECONDS TO MINIMIZE FALSE ALARMS. FLOW SWITCH SHALL HAVE SINGLE POLE, DOUBLE THROW SWITCHES TO ACTIVATE A FLOW ALARM OR TO INDICATE A TROUBLE SIGNAL IF THE FLOW SWITCH HOUSING IS TAMPERED. FLOW ALARM SHALL BE AUTOMATICALLY RESETTING. PROVIDE CLAMP-ON HOUSING TO SECURE UNIT TO PIPE OR THREADED CONNECTION FOR TEE FITTING, POTTER ELECTRIC SIGNAL CO. VSR-F.

2.05 INSPECTORS TEST AND DRAIN:
A. ACCEPTABLE MANUFACTURERS: GJ INNOVATIONS, AGF MANUFACTURING AND TEST DRAIN.
B. SIGHT DRAIN: SIGHT DRAIN SHALL HAVE 2 VIEW WINDOWS TO PROVIDE VISUAL OBSERVATION OF WATER FLOW AND SHALL HAVE FEMALE THREADED CONNECTIONS, POTTER-ROEMER 617 1/6 17 2/6 17 3/6 174.
C. INSPECTOR'S TEST AND DRAIN: TEST AND DRAIN SHALL BE PROVIDED WITH INTEGRAL SIGHT GLASS, INTEGRAL 1/2 INCH TEST ORIFICE AND POSITIVE POSITIONING OF HANDLE FOR OFF, TEST AND DRAIN OPERATIONS, GJ INNOVATIONS, INC 'SURE-TEST'.
D. HANGERS, SUPPORTS AND SLEEVES:
1. SUPPORT PIPING WITH UL AND FM APPROVED HANGERS. HANGERS AND RODS SHALL BE GALVANIZED.
2. ACCEPTABLE MANUFACTURERS: GRINNELL, B-LINE, HILTI, FEE & MASON, MICHIGAN and PHD.
3. ADJUSTABLE CLEVIS HANGER: GRINNELL FIG. 260.
4. ADJUSTABLE SWIVEL LOOP HANGER: GRINNELL FIG. 69.
5. BEAM CLAMP: GRINNELL FIG. 92 AND GRINNELL FIG. 218.
6. CONCRETE FASTENERS: GRINNELL STEEL SHELL AND EXPANDER PLUG.
7. CONCRETE INSERT: GRINNELL FIG. 152.
8. RISER CLAMP: GRINNELL FIG. 261.
9. POWDER-DRIVEN INSERTS SHALL NOT BE ACCEPTED.
10. THREADED RODS SHALL BE GALVANIZED COATED. ALL HANGERS SHALL BE GALVANIZED COATED.
E. FIRE STOPPING:
1. ALL PIPES PASSING THROUGH RATED FLOORS OR WALLS SHALL BE SLEEVED AND FIRE STOPPED TO AN EQUIVALENT RATING OF THE FLOOR OR WALL ASSEMBLY. FIRE STOP MATERIALS SHALL MEET ASTM E814 REQUIREMENTS.
2. ACCEPTABLE MANUFACTURERS: HILTI AND 3M.

EXECUTION:
3.01 INSTALLATION:
A. HANGERS: ALL HANGER SPACING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA-13.
B. SPRINKLER HEAD LOCATION: SPRINKLER HEADS SHALL BE INSTALLED NO CLOSER THAN 4 INCHES TO ANY CEILING GRID OR WALL.
C. FLUSHING: THE ENTIRE SYSTEM SHALL BE FLUSHED WITH CLEAN WATER TO REMOVE DEBRIS RESULTING FROM INSTALLATION. FLUSH THROUGH A BURLAP BAG TO RETAIN DEBRIS FOR EXAMINATION.
D. PROHIBITED: DO NOT PAINT THE COVERS OF CONCEALED SPRINKLERS.
E. PROVIDE DRAIN VALVES, PIPES AND TEST CONNECTIONS AS REQUIRED BY NFPA-13. PIPE DRAIN LINES AND TEST CONNECTIONS TO THE EXTERIOR OF THE BUILDING AS INDICATED ON THE DRAWINGS.
F. DRAIN PLUGS SHALL BE INSTALLED ON TRAPPED SECTIONS OF PIPING 5-GALLONS OR LESS AUXILIARY DRAIN VALVES, 3/4 INCH OR LARGER AND PLUGS SHALL BE INSTALLED ON TRAPPED SECTIONS OF PIPE GREATER THAN 5-GALLONS.

3.02 HYDROSTATIC TEST:
A. GENERAL: ABOVE GROUND AND BELOW GROUND PIPING SYSTEMS SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI PRESSURE, OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE, WHICHEVER IS GREATER, FOR A PERIOD OF 2 HOURS. THE TEST PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW ELEVATION POINT OF THE INDIVIDUAL SYSTEM OR PORTION OF THE SYSTEM BEING TESTED. THE UNDERGROUND PIPING SHALL NOT HAVE LEAKAGE EXCEEDING THE AMOUNTS SPECIFIED IN NFPA 24. LEAKAGE QUANTITIES SHALL BE DETERMINED BY PUMPING AT THE SPECIFIED TEST PRESSURE FROM A CALIBRATED CONTAINER. REPAIR LEAKING JOINTS AND RETEST AS NECESSARY UNTIL ALL SYSTEMS HAVE BEEN TESTED. TEST THE PIPING BETWEEN THE CHECK VALVE IN THE FIRE DEPARTMENT INLET PIPE AND THE OUTSIDE CONNECTION THE SAME AS THE BALANCE OF THE SYSTEM.

FIRE SPRINKLER LEGEND

SYM	ORF	TEMP	RESPONSE	K-FAC	FINISH	MODEL	REMARKS	PLATE	MFG.	IMAGE	
◍	1/2"	155 DEG	QUICK	5.62	WHITE	VK302	RECESSED	---	VIKING		
◎	1/2"	135 DEG	QUICK	5.5	BRASS	VK462	CONCEALED	WHITE	VIKING		
○	1/2"	155 DEG	QUICK	5.62	BRASS	VK300	UPRIGHT	---	VIKING		NOTES
◁	1/2"	155 DEG	QUICK	5.62	WHITE	VK305	HOR. SIDEWALL	WHITE	VIKING		
⊠	1/2"	155 DEG	QUICK	5.62	BRASS	VK-300-D1	UPRIGHT	---	VIKING		
◌	1/2"	155 DEG	QUICK	5.7	CHROME	VK176	DRY PENDANT	CHROME	VIKING		

NOTES:
1. SPRINKLER HEADS SHALL BE ORDINARY TEMPERATURE UNLESS OTHERWISE NOTED.
2. SPRINKLER GUARDS SHALL BE PROVIDED ON ALL SPRINKLER HEADS INSTALLED LOWER THAN 7'-6" ABOVE FINISH FLOOR AND / OR ARE SUBJECT TO DAMAGE.
3. PROVIDE RECESSED, CONCEALED AND SIDEWALL SPRINKLERS WITH ESCUTCHEON IN EXPOSED AREA'S.
4. COORDINATE COLOR SELECTIONS WITH ARCHITECT.

FAC 61G15 COMPLIANCE NOTES

FAC 61G15 COMPLIANCE NOTES

APPLICABLE CODES AND STANDARDS:

FLORIDA BUILDING CODE 2014 EDITION
FLORIDA FIRE PREVENTION CODE 2014 EDITION
FLORIDA ADMINISTRATIVE CODE 61G15 (2) (B) 1/06/05
NFPA-13, 2010 EDITION
NFPA-14, 2010 EDITION
NFPA-20, 2010 EDITION
NFPA-24, 2010 EDITION
NFPA-25, 2010 EDITION

(A) POINT OF SERVICE:

THE POINT OF SERVICE IS AN EXISTING FIRE MAIN ENTERING THE FIRE PUMP ROOM. IT IS BOOSTED BY AN ELECTRIC FIRE PUMP AND DIVIDED INTO RISER ZONES PRIOR TO BEING EXTENDED TO THE SPRINKLER SYSTEM. FIRE DEPARTMENT CONNECTION IS INSTALLED AT THE BUILDING.

(B) APPLICABLE NFPA STANDARDS TO BE APPLIED:

SHALL COMPLY WITH NFPA 13, 14 & 16 ACCEPTANCE SECTION 20 2010 CHAPTER
16.1 APPROVAL OF SPRINKLER SYSTEM
16.2 ACCEPTANCE REQUIREMENTS.
16.3 CIRCULATING CLOSED LOOP SYSTEM
16.4 INSTRUCTION
16.5 HYDRAULIC DESIGN INFORMATION SIGNS

(C) CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA:

LIGHT HAZARD AREAS: NICU AREAS, TREATMENT AND SUPPORT AREAS, ETC.

ORDINARY HAZARD GROUP I: STORAGE ROOMS, MECH. ROOMS AND ELECTRICAL ROOMS.

(D) DESIGN APPROACH:

BAR AND SEATING AREAS AND OFFICE:

SYSTEM TYPE: WET PIPED AUTOMATIC SPRINKLER SYSTEM, USING STEEL SUPPLY PIPING TO NEW STANDARD SPRAY PENDANT, QUICK RESPONSE, AUTOMATIC FIRE SPRINKLER LOCATIONS. DESIGN APPROACH TO FOLLOW NFPA 13-2007 EDITION.

DENSITY: .12 GPM / SQ. FT.
AREA OF OPERATION: 3000 SQ. FT. MAX.
HEAD TEMPERATURE RATING: 155 DEGREE F.
MAX. COVERAGE PER SPRINKLER: 225 SQ. FT.

A HOSE DEMAND OF 100 GPM WILL BE ADDED FOR LIGHT HAZARD CALCULATIONS.

COOLER / FREEZER AREAS:

SYSTEM TYPE: WET PIPED AUTOMATIC SPRINKLER SYSTEM, USING STEEL SUPPLY PIPING TO NEW STANDARD SPRAY UPRIGHT OR PENDANT, QUICK RESPONSE, AUTOMATIC FIRE SPRINKLER LOCATIONS.

DENSITY: .17 GPM / SQ. FT.
AREA OF OPERATION: 3000 SQ. FT. MAX.
HEAD TEMPERATURE RATING: 155 DEGREE F.
MAX. COVERAGE PER SPRINKLER: 130 SQ. FT.

A HOSE DEMAND OF 250 GPM WILL BE ADDED FOR ORDINARY HAZARD I CALCULATIONS.

KITCHEN AND FOOD PREP AREAS:

SYSTEM TYPE: WET PIPED AUTOMATIC SPRINKLER SYSTEM, USING STEEL SUPPLY PIPING TO NEW STANDARD SPRAY UPRIGHT OR PENDANT, QUICK RESPONSE, AUTOMATIC FIRE SPRINKLER LOCATIONS.

DENSITY: .22 GPM / SQ. FT.
AREA OF OPERATION: 3000 SQ. FT. MAX.
HEAD TEMPERATURE RATING: 155 DEGREE F.
MAX. COVERAGE PER SPRINKLER: 130 SQ. FT.

A HOSE DEMAND OF 250 GPM WILL BE ADDED FOR ORDINARY HAZARD II CALCULATIONS.

(E) CHARACTERISTICS OF THE WATER SUPPLY TO BE USED:

THE WATER SUPPLY IS PROVIDED FROM AN EXISTING PUBLIC WATER PURVEY CIRCULATING MAIN.

AN EXISTING FIRE PUMP IS INSTALLED AND REQUIRED TO BOOST THE WATER PRESSURE TO MAINTAIN ADEQUATE PRESSURE THE MOST REMOTE AND DEMANDING SPRINKLER FOR THE COMMODITIES MODELED.

(F) FLOW TEST DATA:

THE FIRE FLOW TEST IS NOT AVAILABLE WILL BE EVALUATED.

(G) VALVING AND ALARM REQUIREMENTS TO MINIMUM POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER:

THE FIRE SPRINKLER RISER FOR THIS BUILDING ARE EQUIPPED WITH A WATER FLOW SWITCH WITH A LOCAL ALARM AND OFF-SITE MONITORING. BACKFLOW PREVENTION DEVICE SHALL BE PROVIDED FOR ENTIRE ON SITE SUPPLY LOOP.

(H) MICROBIAL INDUCED CORROSION (MIC):

AS OF THIS DATE THE FIRE MARSHAL HAS SIGNED A LETTER STATING THAT THERE HAVE BEEN NO UNUSUAL PIPE FAILURES IN ANY SPRINKLER SYSTEMS THAT WOULD INDICATE MIC IS PRESENT. THIS FINDING IS ACCEPTABLE BY THE ENGINEER OF RECORD.

(I) BACKFLOW PREVENTION AND METERING SPECIFICATIONS:

THE BACKFLOW PREVENTION IS AN EXISTING INSTALLED SYSTEM WITH AN ACCEPTABLE INSPECTION RECORD.

(J) QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS:

ALL NEW YARD AND INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED FOR FIRE PROTECTION SERVICE AND FM APPROVED.

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	NEW SPRINKLER PIPING - SCHEDULE 40 STEEL
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	TEE, TURNED UP
	TEE, TURNED DOWN
	CAP
FC	FLUSHING CONNECTION
	ZONE CONTROL VALVE / FLOW SWITCH / DRAIN RISER
OR	CONTROL VALVE WITH TAMPER SWITCH
	CHECK VALVE
	FLOW SWITCH
	BACKFLOW PREVENTER WITH TAMPER SWITCHES
FDV	STANDPIPE WITH FIRE DEPARTMENT VALVE
	ROOF MANIFOLD
FDC	FIRE DEPARTMENT CONNECTION
PIV	POST INDICATOR VALVE WITH TAMPER SWITCH
FVC	FIRE VALVE CABINET

CALCULATION AREA 1

OCCUPANCY CLASSIFICATION:	LIGHT
DENSITY:	0.10 GPM / SQ. FT.
AREA OF APPLICATION:	1,500 SQ. FT.
NO REDUCTION IN AREA PER NFPA:	13.11.2.3.2
COVERAGE PER SPRINKLER:	200 SQ. FT.
NUMBER OF SPRINKLERS CALCULATED:	18
HOSE STREAM ALLOWANCE:	100 GPM
SYSTEM DEMAND AT BASE OF RISER:	402 GPM AT 51.0 PSI

WATER FLOW TEST DATA

STATIC: XX
DATE: XX
RESIDUAL: XX
TIME: XX
FLOW: XX

LOCATION: AT HYDRAULIC REF. POINT A (SEE PLANS)

BY: XX

CODE COMPLIANCE

1. TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE, 2014 FLORIDA FIRE PREVENTION CODE AND THE CODES REFERENCED WITHIN.

SCOPE OF WORK

1 PROVIDE A FULLY AUTOMATIC WET SPRINKLER SYSTEM WITH FIRE VALVE CABINETS IN ACCORDANCE WITH NFPA 13 AND NFPA 14 APPLICABLE EDITION. CONTRACTOR SHALL SUBMIT PIPING SHOP DRAWINGS FOR PERMIT TO THE FIRE MARSHAL. DRAWINGS SHALL BE 1/8" SCALE PIPING SHOP DRAWINGS AS PRESCRIBED IN SPECIFICATIONS AND AS REQUIRED BY LOCAL CODES. SHOP DRAWINGS SHALL INCLUDE SPRINKLER PIPING CUT LENGTHS, OFFSETS, FITTINGS AND DEVICES, ELEVATIONS, HANGER LOCATIONS, SPRINKLER HEAD COUNT BY TYPE, ELEVATION SECTIONS, HYDRAULIC CALCULATIONS AND OTHER INSTALLATION INFORMATION. THIS SHOP DRAWING MUST BE SIGNED AND SEALED BY THE DELEGATED ENGINEER. DESIGN BUILDER TO CONFIRM WITH OWNER IF CLEAN AGENT SYSTEM IS REQUITED FOR ALL IT/SERVER ROOMS.

GENERAL NOTES

1. THE TERM "CONTRACTOR" USED THROUGHOUT THE DESIGN CRITERIA PACKAGE DOCUMENTS (DCP) SHALL MEAN THE 'DESIGN BUILDER" FOR THE PROJECT. THE DESIGN CRITERIA PACKAGE DOCUMENTS SHALL INCLUDE ALL DRAWINGS, SPECIFICATIONS, AND CONTRACT REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROPOSED GA TERMINAL AND RELATED WORK. THE DESIGN CRITERIA PACKAGE DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL ESTABLISH THE BASE LINE STANDARD FOR THE PROJECT. THE DESIGN BUILDER MAY SUBMIT SUBSTITUTIONS FOR CONSIDERATION BY THE OWNER AND THE DESIGN CRITERIA PROFESSIONAL AS OUTLINED IN THE DIVISION 01 SPECIFICATION. AND THE PROCUREMENT DOCUMENTS.
2. FIRE PROTECTION SYSTEM SHALL COMPLY WITH THE CURRENTLY ADOPTED VERSION OF NFPA 13, 14, 20, 24, 25 FLORIDA BUILDING CODE AND STATE FIRE PREVENTION CODE.
3. FINAL INSPECTION AND APPROVAL SHALL BE BY LOCAL FIRE MARSHAL AND ARCHITECT / ENGINEER.
4. SUBMIT SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS TO THE ARCHITECT / ENGINEER AND FIRE MARSHAL PRIOR TO ANY INSTALLATION.
5. PIPE ROUTING SHOWN IS SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ANY ADDITIONAL OFFSETS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES.
6. INSTALL PIPING IN AREAS WITH EXPOSED STRUCTURE AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF SPACE. PREP, PRIME AND PAINT ALL EXPOSED PIPING TO COLOR AS REQUIRED BY THE ARCHITECT. DO NOT PAINT SPRINKLER HEADS.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.
8. COORDINATE SPRINKLERS WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS. SPACE SPRINKLERS IN ACCORDANCE WITH NFPA 13 AND LISTING OF THE SPRINKLER.
9. CENTER SPRINKLER LOCATIONS IN THE TILE AS INDICATED ON THE DRAWINGS OR IN HARD CEILING AREAS CENTERED BETWEEN LIGHTS. PROVIDE ARMOVERS OR SWING JOINTS AS REQUIRED.
10. SPRINKLERS IN AREAS WITH EXPOSED STRUCTURE (OBSTRUCTED CONSTRUCTION) SHALL BE INSTALLED WITH DEFLECTOR 1" BELOW THE BOTTOM OF THE BEAM (MAXIMUM 22" BELOW ROOF DECK). EXPOSED BAR JOISTS THAT HAVE SPRAY ON FIRE-PROOFING THAT MAKES THE JOIST SOLID SHALL BE TREATED LIKE A BEAM WITH THE SPRINKLERS 1" BELOW THE BOTTOM OF THE FIRE-PROOFING.
11. SLEEVE ALL PIPING PENETRATIONS THROUGH WALLS, CEILING AND FLOORS. SLEEVE AND / OR FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS AND FLOORS WITH UIL LISTED ASSEMBLIES. FIRE STOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
12. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.
13. PROVIDE A PERMANENTLY ATTACHED NAME TAG ATTACHED TO THE RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM.
14. PROVIDE SPRINKLERS UNDER ALL EXPOSED DUCTWORK OVER 48" WIDE AND SPACE HEADS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. HEADS UNDER DUCTS ARE NOT INDICATED ON DRAWINGS BUT ARE REQUIRED AND SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13. SPRINKLER LOCATIONS UNDER DUCTWORK AND AROUND OBSTRUCTIONS SHALL BE GOVERNED BY FINAL INSTALLED LOCATIONS. THESE SPRINKLERS ARE NOT INDICATED, BUT ARE REQUIRED.
15. PROVIDE SPRINKLER GUARD ON ALL HEADS IN MECHANICAL ROOMS, ELECTRIC ROOMS, TELEPHONE ROOMS, ELEVATOR ROOMS, ELEVATOR SHAFTS AND ON ANY HEADS LESS THAN 7'-0" ABOVE THE FLOOR.
16. IF SYSTEM PRESSURE EXCEEDS 100 PSI, ALL HANGERS ON END HEADS IN PENDANT POSITION SHALL BE WITHIN 12" OF END OF LINE IN ACCORDANCE WITH NFPA 13.
17. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (SERVERS, COMM., ELEC. PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER ELECTRICAL SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
18. FIRE DEPARTMENT CONNECTIONS TO SPRINKLER SYSTEMS, STANDPIPES, YARD HYDRANTS OR ANY OTHER FIRE HOSE CONNECTION SHALL BE COMPATIBLE WITH THE CONNECTIONS USED BY THE LOCAL FIRE DEPARTMENT.
19. USE EITHER FLEXIBLE OR HARD PIPE TO SPRINKLER HEADS.
20. MATCH COLOR OF ALL SPRINKLER HEADS WITH CEILING COLOR.

SHEET INDEX

SHEET NUMBER	SHEET NAME
FP-000	FIRE PROTECTION LEGEND
FP-201	FIRE PROTECTION FLOOR PLAN - AREA A
FP-202	FIRE PROTECTION FLOOR PLAN - AREA B

Ocala International Airport

OCALA INTERNATIONAL AIRPORT
CITY OF OCALA

Michael Baker INTERNATIONAL
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FLORIDA LICENSE # AA 00003054

VOLT AIR CONSULTING ENGINEERS
220 West 7th Avenue
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33602
Tel: 888.891.9713,
www.VoltAirInc.com
COA #27158 Proj #01.17050

Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
Z.H.	Z.H.	R.F.W.

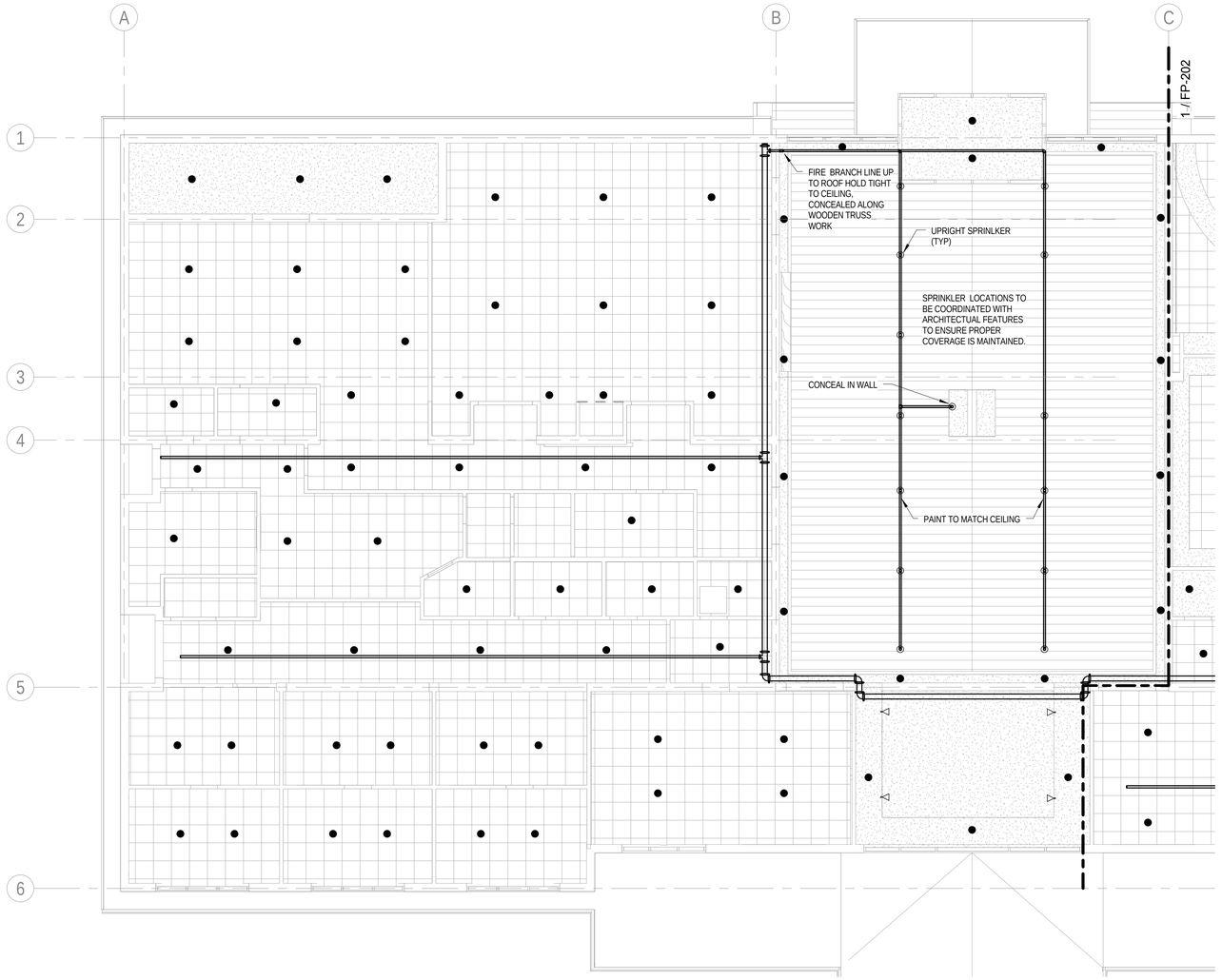
Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
FIRE PROTECTION LEGEND

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:
FP-000



1 FIRE PROTECTION FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"
SCALE: 0' - 0 1/8" = 1' - 0"

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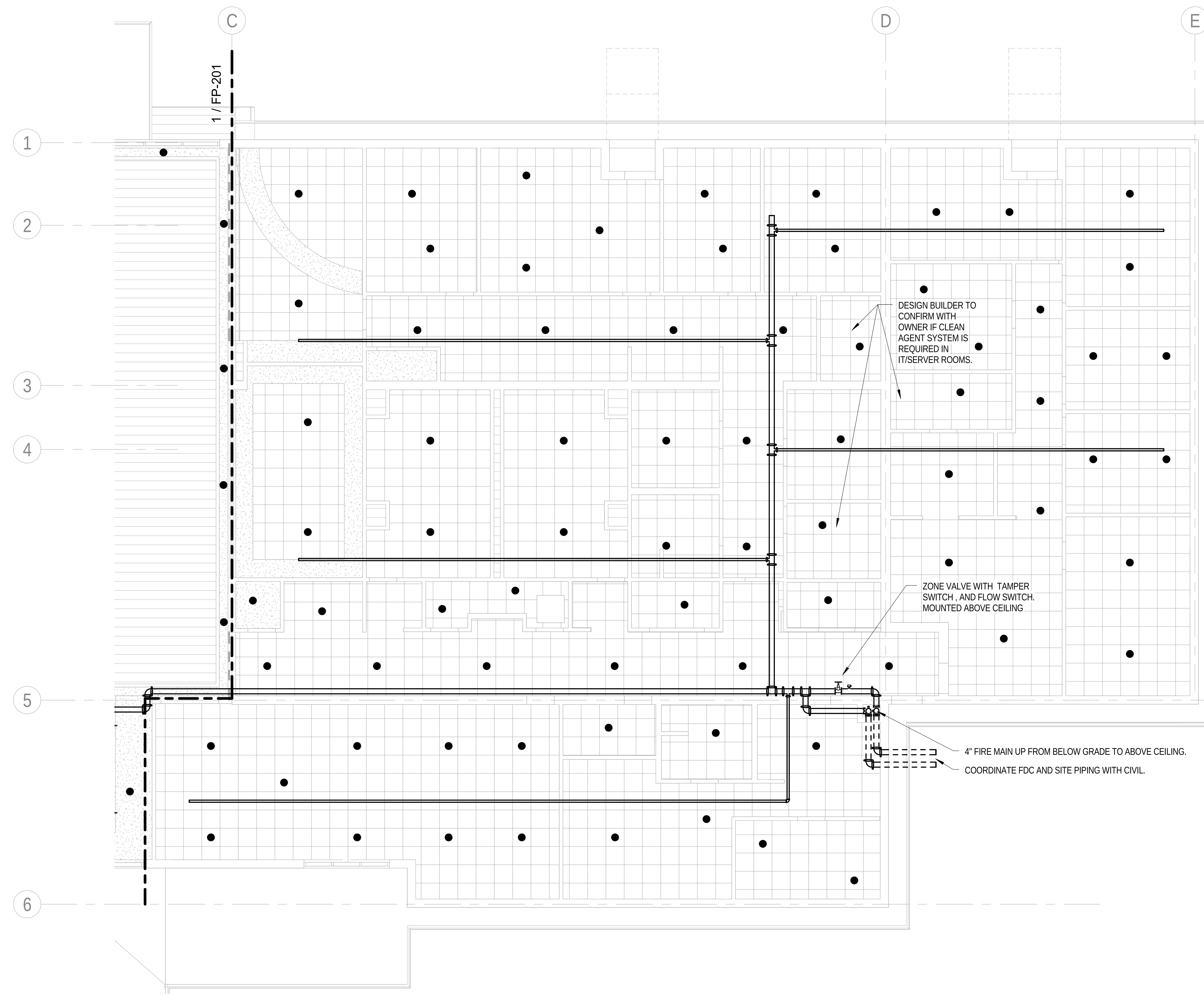
Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
FIRE PROTECTION FLOOR PLAN - AREA A

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:
FP-201



1 FIRE PROTECTION FLOOR PLAN - AREA B

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

0 4' - 0" 8' - 0" 16' - 0"

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

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Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
Z.H.	Z.H.	R.F.W.

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

FIRE PROTECTION FLOOR PLAN - AREA B

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:

FP-202

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
BOP	BOTTOM OF PIPE
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CT	COOLING TOWER
CU	CONDENSING UNIT
DDC	DIRECT DIGITAL CONTROLS
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FCU	FAN COIL UNIT
FF	FINAL FILTERS
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
GPM	GALLONS PER MINUTE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUs PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVER CURRENT PROTECTION
MOD	MOTOR OPERATED CONTROL DAMPER (MOD)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAL	OUTSIDE AIR LOUVER
PRV	PRESSURE REDUCING VALVE
PRS	PRESSURE REDUCING STATION
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
UNO	UNLESS NOTHED OTHERWISE
V / PH	VOLTS / PHASE
VAV	VARIABLE AIR VOLUMN
VFD	VARIABLE FREQUENCY DRIVE

EQUIPMENT

SYMBOL	DESCRIPTION
F-1	EXHAUST DUCT UP TO FAN ABOVE
F-1	EXHAUST FAN ON ROOF AND DUCT DROP TO BELOW
F-1	IN-LINE CENTRIFUGAL FAN
EQUIP.	P-TRAP

CONTROLS

SYMBOL	DESCRIPTION
T	THERMOSTAT / TEMPERATURE SENSOR
H	HUMIDISTAT / HUMIDITY SENSOR
M	MOTORIZED CONTROL DAMPER
TS	TEMPERATURE SENSOR
P	PRESSURE SENSOR
CO^2	CO2 SENSOR

AIR DISTRIBUTION

SYMBOL	DESCRIPTION
QTY / TAG / XA(FLOW) / CFM	AIR DISTRIBUTION DEVICE: SUPPLY (4-WAY BLOW UNLESS INDICATED BY FLOW ARROW'S)
QTY / TAG / XA(FLOW) / CFM	AIR DISTRIBUTION DEVICE: RETURN
QTY / TAG / XA(FLOW) / CFM	AIR DISTRIBUTION DEVICE: EXHAUST
R / S	AIR TERMINAL DEVICE: SIDEWALL MOUNTED RETURN OR SUPPLY
DG	DOOR GRILLE: SEE ARCHITECTURAL DRAWINGS
UC	UNDERCUT DOOR: SEE ARCHITECTURAL DRAWINGS

LIFE SAFETY

SYMBOL	DESCRIPTION
	FIRE DAMPER WITH ACCESS DOOR PANEL
	FIRE AND SMOKE DAMPER WITH ACCESS DOOR PANEL
	EXISTING FIRE DAMPER TO REMAIN WITH ACCESS DOOR PANEL, UNLESS OTHERWISE NOTED
	EXISTING FIRE AND SMOKE DAMPER TO REMAIN WITH ACCESS PANEL, UNLESS OTHERWISE NOTED
	DUCT SMOKE DETECTOR

DUCTWORK

SYMBOL	DESCRIPTION
24"x12"	NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN PROVIDE EXTERNALLY INSULATED SHEET-METAL DUCT
DOWN UP	DUCT ELBOW POSITIVE PRESSURE (SUPPLY)
DOWN UP	DUCT ELBOW NEGATIVE PRESSURE (EXHAUST)
DOWN UP	DUCT ELBOW NEGATIVE PRESSURE (RETURN)
UP DN	CHANGE OF ELEVATION
	FLEXIBLE DUCT
	TRANSITION, CONCENTRIC
	TRANSITION, ECCENTRIC
10X8 8"Ø	TRANSITION, SQUARE TO ROUND
	SQUARE THROAT ELBOW WITH TURNING VANES
	RADIUS ELBOW
	RECTANGULAR / ROUND BRANCH TAKE-OFF OR ROUND / ROUND BRANCH TAKE-OFF
24"x12"	RECTANGULAR DUCTWORK
8"ø	ROUND DUCTWORK

GENERAL NOTES

GENERAL NOTE:
THE TERM "CONTRACTOR" USED THROUGHOUT THE DESIGN CRITERIA PACKAGE DOCUMENTS (DCP) SHALL MEAN THE "DESIGN BUILDER" FOR THE PROJECT. THE DESIGN CRITERIA PACKAGE DOCUMENTS SHALL INCLUDE ALL DRAWINGS, SPECIFICATIONS, AND CONTRACT REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROPOSED GA TERMINAL AND RELATED WORK. THE DESIGN CRITERIA PACKAGE DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL ESTABLISH THE BASE LINE STANDARD FOR THE PROJECT. THE DESIGN BUILDER MAY SUBMIT SUBSTITUTIONS FOR CONSIDERATION BY THE OWNER AND THE DESIGN CRITERIA PROFESSIONAL AS OUTLINED IN THE DIVISION 01 SPECIFICATION AND THE PROCUREMENT DOCUMENTS.

1. SCOPE:
WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING MECHANICAL INSTALLATION IN ACCORDANCE WITH ALL APPLICABLE CODES AND CONTRACT DRAWINGS AND SPECIFICATIONS. WORK SHALL INCLUDE ALL WORK NORMALLY SPECIFIED IN DIVISION 15.

THE CONTRACTOR SHALL PAY FOR ALL REQUIRED LICENSES, FEES, INSPECTIONS AND PERMITS.

2. CODES:
INSTALL ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE REGULATIONS AND GOVERNING CODES, INCLUDING THE REGULATIONS OF THE UTILITY COMPANIES SERVING THE PROJECT.

WHERE A CONFLICT IN CODE REQUIREMENTS OR THE DESIGN CRITERIA PACKAGE OCCURS THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

3. STANDARDS:
ALL EQUIPMENT AND DEVICES SHALL BEAR U.L. LABEL, THE LABEL OF AN INDUSTRY RECOGNIZED APPROVED TESTING AGENCY OR A.G.A. CERTIFICATION FOR SAID ITEM OF EQUIPMENT OR DEVICE.

ALL ELECTRICAL DEVICES MUST BE U.L. APPROVED.

4. DRAWINGS:
DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND EXTENT OF WORK. EXACT LOCATIONS AND ARRANGEMENT OF MATERIALS AND EQUIPMENT SHALL BE DETEREMINED, WITH THE ACCEPTANCE OF THE ARCHITECT/ ENGINEER, THE DESIGN CRITERIA PROFESSIONAL, OR THE OWNER AS WORK PROGRESSES TO CONFORM IN THE BEST POSSIBLE MANNER WITH THE SURROUNDINGS AND WITH THE ADJOINING WORK OF OTHER TRADES. WHERE LOCATIONS OF EQUIPMENT, DEVICES OR FIXTURES ARE CONTROLLED BY ARCHITECTURAL FEATURES, ESTABLISH SUCH LOCATIONS BY REFERRING TO DIMENSIONS ON ARCHITECTURAL DRAWINGS AND NOT BY SCALING DRAWINGS.

5. DISCREPANCIES:
IN CASE OF DIFFERENCES BETWEEN DRAWINGS AND SPECIFICATIONS OR WHERE DRAWINGS AND SPECIFICATIONS ARE NOT CLEAR OR DEFINITE, THE SUBJECT SHALL BE REFERRED TO ARCHITECT / ENGINEER OR DESIGN CRITERIA PROFESSIONAL OR THE OWNER FOR CLARIFICATION AND INSTRUCTIONS.

6. ELECTRICAL PROVISIONS:
WORK INCLUDES VARIOUS ELECTRICAL REQUIREMENTS (A) WHICH INCORPORATE SPECIFIC ELECTRICAL FEATURES AND COMPONENTS WHICH ARE REQUIRED TO BE PHYSICALLY INTEGRAL WITH MECHANICAL EQUIPMENT, OR (B) WHICH REQUIRE NECESSARY ELECTRICAL INTERCONNECTING COMPONENTS FOR THE MECHANICAL SYSTEMS.

DEFINITIONS: DEFINITIONS FOR THE PURPOSE OF MECHANICAL / ELECTRICAL CONTROL AND POWER COORDINATION ARE AS GIVEN BELOW. ANY ITEMS WHICH DO NOT FALL WITHIN THE SCOPE OF THIS PARAGRAPH SHALL BE COORDINATEDAS INDIVIDUALLY SPECIFIED.

'FURNISH' MEANS TO PROCURE AN ITEM AND TO DELIVER IT TO THE PROJECT FOR INSTALLATION.

'INSTALL' MEANS TO DETERMINE (IN COORDINATION WITH OTHERS AS NECESSARY) THE APPROPRIATE INTENDED LOCATION OF AN ITEM AND TO SET AND CONNECT IT IN PLACE.

THE CONTRACTOR SHALL 'PROVIDE' MEANS TO BOTH FURNISH AND INSTALL.

7. AUXILIARIES AND ACCESSORIES:
INCLUDE ALL AUXILIARIES AND ACCESSORIES FOR A COMPLETE AND PROPERLY OPERATING SYSTEMS.

8. INVESTIGATION OF SITE:
CHECK SITE AND EXISTING CONDITIONS THOROUGHLY BEFORE PROVIDING A BID PRICE. ADVISE ARCHITECT / ENGINEER OF DISCREPANCIES OR QUESTIONS BEFORE BIDDING.

9. COORDINATION:
PROVIDE ALL REQUIRED COORDINATION AND SUPERVISION WHERE MECHANICAL WORK INTERFACES DIRECTLY OR INDIRECTLY WITH WORK OF ANY TRADES.

10. PROVISIONS FOR OPENINGS:
PROVIDE ALL REQUIRED OPENINGS TO ACCOMPLISH THE WORK. PROVIDE SLEEVES OR OTHER APPROVED METHODS TO ALLOW PASSAGE OF ITEMS INSTALLED.

11. CLEANING AND PROTECTION:
EQUIPMENT: ALL MECHANICAL EQUIPMENT PROVIDED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, OIL, CONCRETE, ETC.. ANY DENTS, SCRATCHES OR OTHER VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE OF THE EQUIPMENT MADE 'LIKE NEW' AND TO THE SATISFACTION OF THE ARCHITECT / ENGINEER.

UPON COMPLETION AND BEFORE FINAL ACCEPTANCE OF THE WORK, ALL DEBRIS, RUBBISH, LEFTOVER MATERIALS, TOOLS AND EQUIPMENT SHALL BE REMOVED FROM THE SITE.

PROTECTION OF WORK UNTIL FINAL ACCEPTANCE: PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE, ENTRANCE OF DIRT AND CONSTRUCTION DEBRIS FROM THE TIME OF INSTALLATION UNTIL FINAL ACCEPTANCE. ANY MATERIALS AND EQUIPMENT WHICH ARE DAMAGED SHALL BE REPAIRED TO 'AS NEW' CONDITION OR REPLACED AT THE DIRECTION OF THE ARCHITECT / ENGINEER, DESIGN CRITERIA PROFESSIONALS, OR THE OWNERS. WHERE FACTORY FINISHES OCCUR AND DAMAGE IS MINOR, FINISHES MAY BE TOUCHED UP. IF, IN THE OPINION OF THE ARCHITECT / ENGINEER THE DAMAGE IS EXCESSIVE, FACTORY FINISH SHALL BE REPLACED TO 'NEW' CONDITION.

12. SHOP DRAWINGS:
SUBMIT SHOP DRAWINGS FOR ALL WORK INCLUDING ALL ITEMS, SERVICES AND SYSTEMS PROVIDED FOR THE PROJECT.

SHOP DRAWINGS SHALL CLEARLY SHOW THE FOLLOWING:

TECHNICAL AND DESCRIPTIVE DATA IN DETAIL EQUAL TO OR GREATER THAN THE DATA GIVEN IN THE ITEM SPECIFICATION. INDICATE ALL CHARACTERISTICS, SPECIAL MODIFICATIONS AND FEATURES. WHERE PERFORMANCE AND CHARACTERISTICS DATA SHALL BE PROVIDED IN A DEGREE WHICH IS BOTH QUANTITATIVELY AND QUALITATIVELY EQUAL TO THAT SPECIFIED AND SHOWN SO THAT COMPARISON CAN BE MADE. PRESENT DATA IN DETAIL EQUAL TO OR GREATER THAT THAT GIVEN IN ITEM SPECIFICATION AND INCLUDE ALL WEIGHTS, DEFLECTIONS, SPEEDS, VELOCITIES, PRESSURE DROPS, OPERATING TEMPERATURES, OPERATING CURVES, TEMPERATURE RANGES, SOUND RATINGS, DIMENSIONS, SIZES, MANUFACTURER'S NAMES, MODEL NUMBERS, TYPES OF MATERIAL USED, OPERATING PRESSURES, FULL LOAD AMPERAGES, STARTING AMPERAGES, FOULING FACTORS, CAPACITIES, SET POINTS, CHEMICAL COMPOSITIONS, CERTIFICATIONS AND ENDORSEMENTS, OPERATING VOLTAGES, THICKNESS, GAUGES AND ALL OTHER RELATED INFORMATION AS APPLICABLE TO PARTICULAR ITEMS.

EXCEPTIONS TO OR DEVIATIONS FROM THE DESIGN CRITERIA PACKAGE DOCUMENTS. SHOULD ARCHITECT / ENGINEER ACCEPT ANY ITEMS HAVING SUCH DEVIATIONS WHICH ARE NOT CLEARLY BROUGHT TO ARCHITECT / ENGINEER'S ATTENTION, IN WRITING, ON ITEM SUBMITTAL, THEN CONTRACTOR IS RESPONSIBLE FOR CORRECTION OF SUCH DEVIATIONS REGARDLESS OF WHEN SUCH DEVIATIONS ARE DISCOVERED.

14. SHOP DRAWINGS TECHNICAL INFORMATION BROCHURE:
NEAR CONCLUSION OF WORK AND NOT LESS THAN 10 DAYS PRIOR TO SUBSTANTIAL COMPLETION INSPECTION, SUBMIT A TECHNICAL INFORMATION DOCUMENT (TID) CONTAINING ALL FINAL SHOP DRAWING AND SUBMITTAL INFORMATION FOR THE PROJECT. THIS TECHNICAL INFORMATION DOCUMENT SHALL CONSIST OF ONE OR MORE ADEQUATELY SIZED, HARD-COVER, 3-RING BINDER FOR 8-1/2" x 11" SHEETS.

SHOP DRAWING TECHNICAL AND DESCRIPTIVE DATA SHALL BE INSERTED IN THE TID IN PROPER ORDER ON ALL ITEMS. PROVIDE COMPLETE INFORMATION, INCLUDING, BUT NOT LIMITED TO, WIRING AND CONTROL DIAGRAMS, SCALE DRAWINGS SHOWING THAT PROPOSED SUBSTITUTE EQUIPMENT WILL FIT INTO ALLOTTED SPACE (INDICATE ALL SERVICE ACCESS, CONNECTIONS, ETC...), TEST DATA AND OTHER DATA REQUIRED TO DETERMINE IF EQUIPMENT COMPLIES FULLY WITH THE SPECIFICATIONS.

15. OPERATING INSTRUCTIONS:
SUBMIT FOR CHECKING A SPECIFIC SET OF WRITTEN OPERATING INSTRUCTIONS ON EACH ITEM WHICH REQUIRES INSTRUCTIONS TO OPERATE. AFTER ACCEPTANCE, INSERT INFORMATION IN EACH TECHNICAL INFORMATION DOCUMENT.

16. MAINTENANCE INFORMATION:
SUBMIT FOR ACCEPTANCE MAINTENANCE INFORMATION CONSISTING OF MANUFACTURER'S PRINTED INSTRUCTION AND PARTS LISTS FOR EACH MAJOR ITEM OF EQUIPMENT. AFTER ACCEPTANCE, INSERT INFORMATION IN EACH TECHNICAL INFORMATION DOCUMENT.

17. SYSTEM GUARANTEE:
PROVIDE A ONE YEAR GUARANTEE. THIS GUARANTEE SHALL BE BY THE CONTRACTOR TO THE OWNER TO REPLACE FOR THE OWNER ANY DEFECTIVE WORKMANSHIP, EQUIPMENT OR MATERIAL WHICH HAS BEEN FURNISHED UNDER THIS CONTRACT AT NO COST TO THE OWNER FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE SYSTEM. THIS GUARANTEE SHALL ALSO INCLUDE REASONABLE ADJUSTMENTS OF THE SYSTEM REQUIRED FOR PROPER OPERATION DURING THE GUARANTEE PERIOD. EXPLAIN THE PROVISIONS OF GUARANTEE TO OWNER AT THE 'INSTRUCTION IN OPERATION CONFERENCE'.

18. INSTRUCTION TO OWNER:
WHEN ALL WORK IS COMPLETED, PROVIDE THE OWNER AN 'INSTRUCTION IN OPERATION CONFERENCE' AT THE CONFERENCE. THE CONTRACTOR SHALL REVIEW WITH THE OWNER ALL APPROPRIATE INFORMATION.

HVAC DUCTWORK SCHEDULE

TYPE / LOC.	SUPPLY AIR	RETURN AIR	EXHAUST AIR	OUTSIDE AIR
ABOVE CEILING	SHEET METAL EXT. FIBERGLASS WRAP	SHEET METAL EXT. FIBERGLASS WRAP	SHEET METAL SINGLE WALL NON-INSULATED	SHEET METAL EXTERIOR FIBERGLASS
EXPOSED (MECHANICAL ROOM)	SHEET METAL EXT. FIBERBOARD	SHEET METAL EXT. FIBERBOARD	SHEET METAL SINGLE WALL NON-INSULATED	WRAP SHEET METAL EXT. FIBERGLASS
EXPOSED (OCCUPIED AREA'S)	ROUND OR OVAL SHEET METAL DOUBLE WALL	ROUND OR OVAL SHEET METAL DOUBLE WALL	SHEET METAL SINGLE WALL NON-INSULATED	SHEET METAL DOUBLE WALL INSULATED

NOTES:
1. EXTERIOR WRAPPED DUCTS SHALL HAVE TWO COATS OF FABRIC AND MASTIC.
2. INSULATED DUCTS LOCATED IN OUTDOOR AREA'S SHALL HAVE 1/2" THICKER INSULATION THAN INDOOR APPLICATIONS.
3. FOR GENERAL DUCTWORK CONSTRUCTION ONLY. SEE PLANS FOR INDIVIDUAL CASES.
4. EXPOSED DUCTS LOCATED IN FINISHED SPACES SHALL BE PAINTED TO MATCH SURROUNDING STRUCTURE ABOVE THE DUCT UNLESS NOTED OTHERWISE.
5. EXPOSED DUCTS LOCATED IN FINISHED SPACES SHALL BE SUPPORTED BY CABLES. REFER TO DETAILS.
6. PROVIDE SHEET METAL TRANSITIONS BETWEEN LOUVERS AND DUCTWORK. INSULATED EXTERIOR OF SHEET METAL PLENUM WITH FIBER BOARD INSULATION IN CONCEALED LOCATIONS. PROVIDE DOUBLE WALL INSULATED SHEET METAL PLENUM IN EXPOSED LOCATIONS.
7. MAXIMUM DISTANCE OF FLEXIBLE BRANCH DUCTWORK TO AIR DEVICES SHALL BE 6 FEET WHERE LENGTH EXCEEDS 6 FEET. THE REMAINING BALANCE OF DUCTWORK SHALL BE EXTERNALLY INSULATED ROUND SNAPLOCK SHEET METAL DUCTWORK TO CONICAL BELLMOUTH SPIN-IN TAP AT MAIN DUCT TRUNK.
8. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER TYPE 8M OR EQUAL.

GENERAL TAGS

SYMBOL	DESCRIPTION
AHU-1	AIR HANDLING UNIT
F-1	FAN
RTU-1	ROOF TOP UNIT
CU-1	CONDENSING UNIT
VAV-1	VARIABLE AIR VOLUME TERMINAL UNIT
FPU-1	FAN POWERED VARIABLE VOLUME TERMINAL UNIT
EDH-1	ELECTRIC DUCT HEATER
P-1	PUMP
1	REVISION REFERENCE
1 / M#1	DETAIL REFERENCE: TOP: DETAIL # BOTTOM: DRAWING # DETAIL SHOWN ON
0	NEUTRAL RELATIVE PRESSURE
+	POSITIVE RELATIVE PRESSURE
-	NEGATIVE RELATIVE PRESSURE
1 1 1	KEY NOTE CALLOUT

DUCT ACCESSORIES

SYMBOL	DESCRIPTION
SA-1	SOUND ATTENUATOR
M	MOTOR OPERATED CONTROL DAMPER (MOD)
FM	AIR FLOW MEASURING STATION
	MANUAL BALANCING DAMPER
	ACCESS DOORS, VERTICAL OR HORIZONTAL
	FLEXIBLE CONNECTION
	ZONE DAMPER
BD	BACKDRAFT DAMPER

CODE COMPLIANCE

1. TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE 2014 FLORIDA BUILDING CODE, 2014 FLORIDA FIRE PREVENTION CODE AND THE CODES REFERENCED WITHIN.

SHEET INDEX

SHEET NUMBER	SHEET NAME
M-000	MECHANICAL LEGEND
M-201	MECHANICAL FLOOR PLAN - AREA A
M-202	MECHANICAL FLOOR PLAN - AREA B
M-801	MECHANICAL SCHEDULES

Ocala International Airport

OCALA INTERNACIONAL AIRPORT
CITY OF OCALA

Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
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VOLT AIR CONSULTING ENGINEERS
220 West 7th Avenue
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33602
Tel: 888.891.9713,
www.VoltAirInc.com
COA #27158 Proj #01.17050

Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
B.Z.	B.Z.	R.F.W.

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

MECHANICAL LEGEND

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:

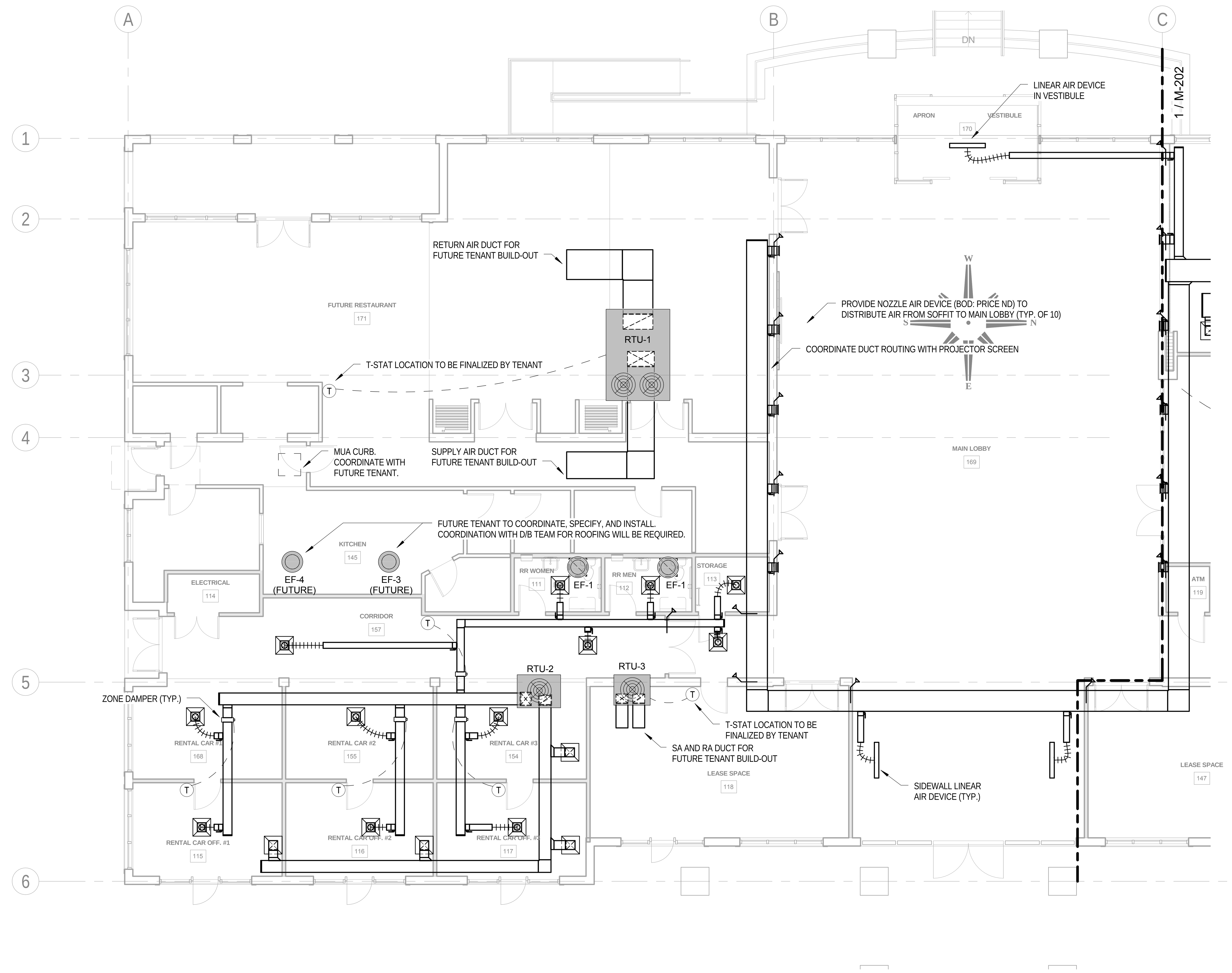
M-000

CONTROLS NOTES

1. ALL ZONE DAMPERS SHALL BE CONTROLLED VIA THERMOSTATS PROVIDED BY ZONE DAMPER MANUFACTURER. DAMPERS AND THERMOSTATS SHALL INTERLOCK WITH RTU.
2. ALL SETPOINTS (TEMPERATURE, HUMIDITY, AND SCHEDULING) SHALL BE FULLY ADJUSTABLE FROM COMPUTER AND/OR MOBILE DEVICE. SYSTEM SHALL INCLUDE REMOTE ACCESS.
3. COMPRESSOR SPEED SHALL VARY WITH CAPACITY.
4. RTU SUPPLY AIR FAN SHALL MAINTAIN CONSTANT SPEED AT ALL TIMES.
5. CONTROL SYSTEM BOD: SPECIFIED CONTROLS W/ SC-Z20 CONTROLLER.

SHEET NOTES

1. ALL HVAC WORK WITHIN TENANT SPACE TO BE COORDINATED WITH TENANT. D/B TEAM SHALL ENSURE PROPER COORDINATION WITH TENANT DESIGN TEAM.
2. ZONE DAMPER SYSTEM TO BE INSTALLED AS INDICATED FOR ADDITIONAL LEVEL OF ZONE CONTROL. ALL RTUs WITH ASSOCIATED ZONE CONTROL SYSTEM SHALL HAVE A VARIABLE SPEED COMPRESSOR FOR TURNDOWN CAPABILITY.
3. SCREENING OF ALL RTUs ON ROOF SHALL BE COORDINATED BY D/B TEAM. RTUs AND ANY OTHER ROOFTOP HVAC EQUIPMENT SHALL NOT BE VISIBLE FROM GRADE BELOW.



1 MECHANICAL FLOOR PLAN - AREA A

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

0 4' - 0" 8' - 0" 16' - 0"

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

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Designed by:	Drawn by:	Checked by:
B.Z.	B.Z.	R.F.W.

Project Name: GENERAL AVIATION TERMINAL BUILDING

Drawing Name: MECHANICAL FLOOR PLAN - AREA A

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number: M-201

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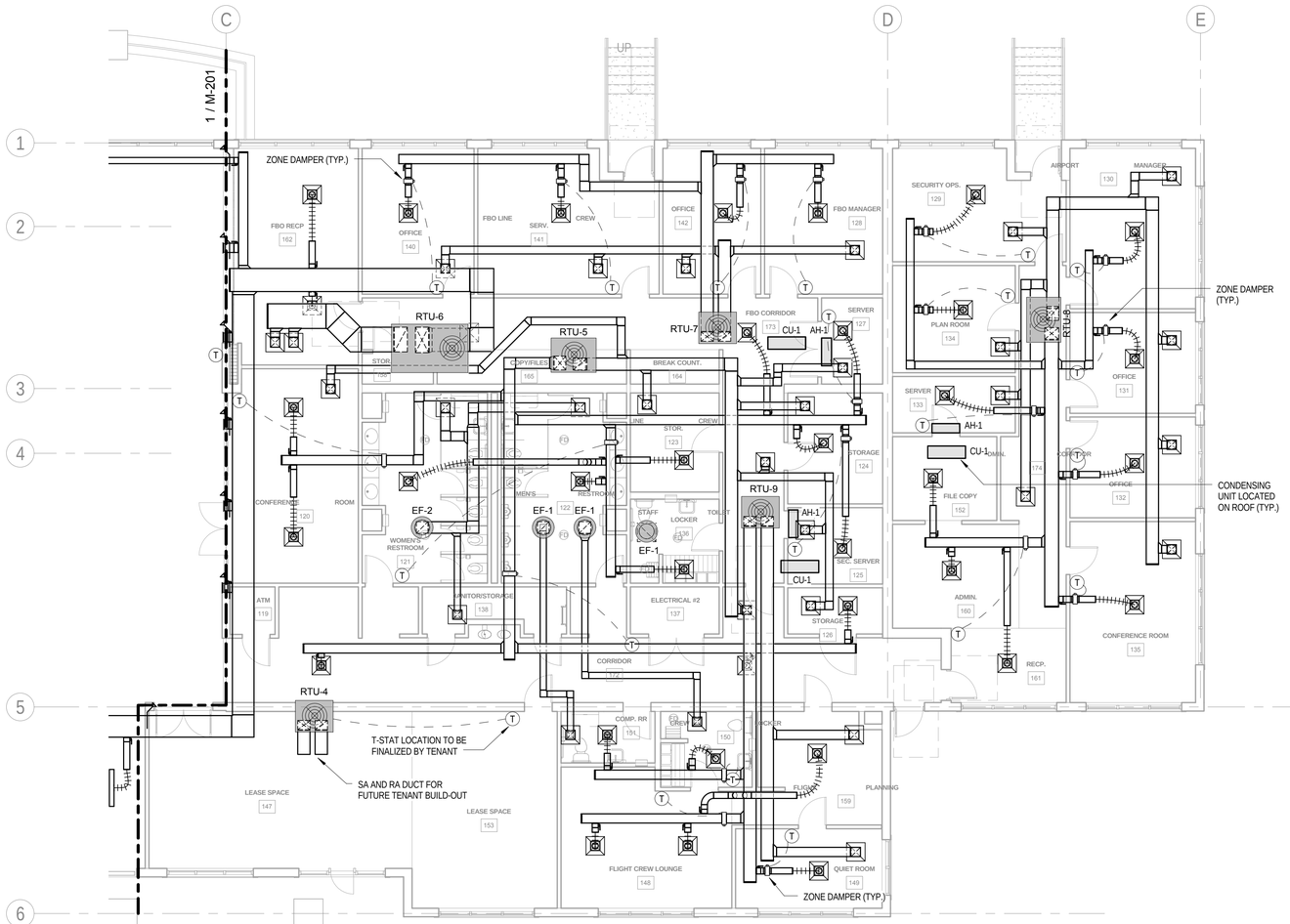

1 MECHANICAL FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"
SCALE: 0' - 0 1/8" = 1' - 0"

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Key Plan:

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November 15, 2017

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Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
MECHANICAL FLOOR PLAN - AREA B

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:
M-202

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ROOFTOP DX UNIT SCHEDULE

PLAN MARK	NOMINAL TONNAGE	NOMINAL SUPPLY CFM	OUTSIDE AIR CFM	TONS / SF ASSUMED	EXT. S.P.	FAN HP	NET COOLING CAPACITY						ELECTRICAL DATA										UNIT WEIGHT (LBS)
							TOT. MBH	SENS. MBH	EAT DB	EAT WB	LAT DB	LAT WB	COMP. STAGES	COMP. RLA(EA)	NO. FANS	COND. FLA(EA)	HEATING KW / STEPS	LAT (DEG. F)	BLOWER FAN FLA	MCA	MOCP SIZE	VOLT/ PHASE	
RTU-1	15 TONS	6000	TBD	250	-	-	180	-	80	67	55	54	VARIABLE	-	-	-	30 / SCR	75	-	-	-	-	-
RTU-2	5 TONS	2000	TBD	350	-	-	60	-	80	67	55	54	VARIABLE	-	-	-	12 / SCR	80	-	-	-	-	-
RTU-3	2 TONS	800	TBD	300	-	-	24	-	80	67	55	54	VARIABLE	-	-	-	5 / SCR	80	-	-	-	-	-
RTU-4	3 TONS	1200	TBD	300	-	-	36	-	80	67	55	54	VARIABLE	-	-	-	7.5 / SCR	80	-	-	-	-	-
RTU-5	6 TONS	2400	TBD	500	-	-	72	-	80	67	55	54	VARIABLE	-	-	-	15 / SCR	80	-	-	-	-	-
RTU-6	12.5 TONS	5000	TBD	300	-	-	150	-	80	67	55	54	VARIABLE	-	-	-	30 / SCR	80	-	-	-	-	-
RTU-7	3 TONS	1200	TBD	300	-	-	36	-	80	67	55	54	VARIABLE	-	-	-	7.5 / SCR	80	-	-	-	-	-
RTU-8	5 TONS	2000	TBD	400	-	-	60	-	80	67	55	54	VARIABLE	-	-	-	12 / SCR	80	-	-	-	-	-
RTU-9	2 TONS	800	TBD	350	-	-	24	-	80	67	55	54	VARIABLE	-	-	-	5 / SCR	80	-	-	-	-	-

NOTES:
1. ACCEPTABLE MANUFACTURERS INCLUDE, BUT ARE NOT LIMITED TO: TRANE, CARRIER, YORK, DAIKIN.
2. AIR HANDLING UNIT AND ASSOCIATED EXHAUST FAN SHALL SHUT DOWN UPON FIRE ALARM SIGNAL, DUCT SMOKE DETECTOR SENSING PRODUCTS OF COMBUSTION OR MANUAL ACTUATION OF AHU OR EXHAUST STARTER TO "OFF" POSITION. INCLUDE DUCT SMOKE DETECTORS ON BOTH SUPPLY AND RETURN FOR ALL UNITS OVER 2000 CFM SUPPLY AIR.
3. PROVIDE WITH 30% EFFICIENCY FILTERS IN COMPLIANCE WITH ASHRAE STANDARDS 52.1-1992. PROVIDE 3-SETS. PROVIDE HINGED ACCESS DOOR FOR FILTER SECTION.
4. HEAD PRESSURE CONTROLLER FOR OPERATION IN AMBIENT TEMPERATURES DOWN TO 30° F.
5. EFFICIENCIES SHALL MEET LATEST FBC MECH ENERGY EFFICIENCY FOR BLDG CONSTRUCTION.
6. PROVIDE UNIT(S) WITH FACTORY MOUNTED DISCONNECT(S).
7. PROVIDE UNIT(S) WITH FACTORY MOUNTED AND POWERED OUTDOOR RATED 120V/1PH GFCI CONVENIENCE POWER RECEPTACLE.
8. PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR COMPRESSOR, FAN, HEATING ELEMENT AND CONTROLS AS PART OF PACKAGED UNIT.
9. AMBIENT DESIGN TEMP IS 95° F.
10. FACTORY PROVIDED HURRICANE RATED CURB 18 INCH. CALCULATIONS TO BE STAMPED BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER IF NOT A FLORIDA PRODUCT APPROVAL PRODUCT.
11. PROVIDE FACTORY MOUNTED MOTORIZED OUTDOOR AIR DAMPER AND WEATHER HOOD.
12. PROVIDE A CONDENSER COIL COATING WITH A MINIMUM OF 5,000 HOURS IN THE ASTM B-117 SALT SPRAY TEST.
13. PROVIDE WITH FACTORY MOUNTED CONDENSATE OVERFLOW SWITCH.
14. PROVIDE WITH DEHUMIDIFICATION FUNCTION (HOT GAS REHEAT FUNCTION).
15. PROVIDE HAIL GUARD, WIRE MESH SCREENS NOT ACCEPTABLE.
16. PROVIDE WITH VARIABLE SPEED COMPRESSOR. SHALL BE CAPABLE OF TURNDOWN TO 30% OF RATED LOAD.
17. UNIT SHALL BE COMPATIBLE WITH ZONE DAMPER SYSTEM PROVIDED.

FAN SCHEDULE

PLAN MARK	TYPE	CFM	STATIC PRESS. IN. WG.	FAN RPM	MOTOR			VOLT/ PHASE	DRIVE TYPE	SONES	ACCESSORIES	INTERLOCKS
					RPM	HP	ECM MOTOR					
EF-1	ROOFTOP DOWNBLAST	75	0.5	-	-	-	YES	-	DIRECT	-	1, 4, 5, 10	LOCAL SWITCH
EF-2	ROOFTOP DOWNBLAST	600	0.75	-	-	-	YES	-	DIRECT	-	1, 4, 5, 10	OCCUPIED SCHEDULE
EF-3 (FUTURE)	ROOFTOP UPBLAST	TBD	TBD	-	-	-	YES	-	DIRECT	-	1, 4, 5, 10, 22, 24, 27	EXHAUST HOOD
EF-4 (FUTURE)	ROOFTOP UPBLAST	TBD	TBD	-	-	-	YES	-	DIRECT	-	1, 4, 5, 10, 22, 28	DISHWASHER

NOTES:
1. ACCEPTABLE MANUFACTURERS INCLUDE, BUT ARE NOT LIMITED TO: GREENHECK, COOK, PENNBARRY

ACCESSORIES:
1. BACKDRAFT DAMPER
2. THERMOSTAT
3. BIRDSCREEN
4. ROOF CURB
5. DISCONNECT SWITCH
6. DRAIN
7. EQUIPMENT SUPPORTS
8. INLET SCREEN
9. CURB MOUNT ROOF JACK
10. SPEED CONTROLLER
11. WALL SHUTTER
12. VIBRATION ISOLATORS
13. WALL CAP
14. WALL SHUTTER - MOTORIZED
15. WEATHER COVER
16. 2 SPEED / 1 WINDING
17. FILTERS
18. WALL COLLAR
19. FAN GUARD / SCREEN
20. COMPANION FLANGES
21. INSULATED HOUSING FOR SOUND CONTROL
22. HINGED FRAMES
23. SPARK / EXPLOSION PROOF
24. U.L. LISTED FOR SMOKE REMOVAL
25. SPECIAL COATING: AIR DRY PHENOLIC
26. TIE DOWN POINTS
27. UL 762 RATED
28. RATED FOR DISHWASHER USE

DUCTLESS AHU DX UNIT SCHEDULE

PLAN MARK	NOMINAL CAPACITY	UNIT TYPE	FAN DATA		DX COOLING COIL DATA				DX HEATING COIL DATA
			SUPPLY AIR CFM	OUTSIDE AIR CFM	INDOOR ENT. DB	INDOOR ENT. WB	OUTDOOR ENT. DB	TOTAL MBH	
AHU 1	2 TONS	WALL MOUNT	-	0	72	67	-	24.0	

NOTES:
1. ACCEPTABLE MANUFACTURERS FOR AHU/CU-1 INCLUDE, BUT ARE NOT LIMITED TO: TRANE, LG, MITSUBISHI, DAIKIN, TOSHIBA.
2. PROVIDE EACH AHU WITH A CONDENSATE PUMP. ROUTE UP THROUGH ROOF TO ROOF DRAIN ABOVE.

AIR COOLED HEAT PUMP SCHEDULE

PLAN MARK	NOMINAL CAPACITY	AMB. TEMP	REF. TYPE	NO. COMP.	MCA	UNIT RLA(EA)	MAX FUSE	VOLT/ PHASE	COOLING MBH	HEATING MBH	CONNECT TO:
CU-1	2 TONS	95°F	R-410A	1	-	-	-	-	-	-	AHU-1

NOTES:
1. ACCEPTABLE MANUFACTURERS FOR AHU/CU-1 INCLUDE, BUT ARE NOT LIMITED TO: TRANE, LG, MITSUBISHI, DAIKIN, TOSHIBA.
2. ALL REFRIGERANT PIPING SHALL BE PROVIDED WITH LONG RADIUS ELBOWS.
3. PROVIDE ALL CONDENSING UNITS WITH COMPRESSOR CRANKCASE HEATER.
4. PROVIDE ALL UNITS WITH ANTI-SHORT CYCLE TIME DELAY.
5. PROVIDE ALL UNITS WITH REFRIGERANT LIQUID LINE SIGHT GLASS.

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Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by: B.Z. | Drawn by: B.Z. | Checked by: R.F.W.

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
MECHANICAL SCHEDULES

Project Number: No. 161641 | Division : Architecture

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M-801

ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTION
A	AMPERES
AC	ALTERNATING CURRENT
A/C	AIR CONDITIONING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CATV	CABLE TELEVISION
CB	EMERGENCY BRANCH
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CIR	CIRCUIT
CKT	CIRCUIT
CU	COPPER
DC	DIRECT CURRENT
DIA	DIAMETER
EB	EQUIPMENT BRANCH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EP	EMERGENCY POWER
EPO	EMERGENCY POWER OFF (BUTTON OR SWITCH)
ER	EXISTING TO BE REMOVED
ETR	EXISTING TO BE RELOCATED
EWC	ELECTRIC WATER COOLER
EX	EXISTING TO REMAIN
F	FUSE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR PANEL
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METAL CONDUIT
G, GND	GROUND
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRC	GALVANIZED RIGID METAL CONDUIT
HOA	HAND-OFF-AUTOMATIC SWITCH
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HZ	HERTZ
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT - AMPERES
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
LRA	LOCK ROTOR AMPS
MC	METAL CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NO	NORMALLY OPEN OR NUMBER
P	POLE
PB	PUSH BUTTON, PANIC BUTTON OR PULLBOX

ELECTRICAL BOX

SYMBOL	DESCRIPTION
(X)	FLOOR BOX. SUBSCRIPT 'X' DENOTES TYPE. SEE TYPE DESCRIPTION AND REQUIREMENTS BELOW. PROVIDE POWER RECEPTACLES (DUPLEX/QUAD) AND POWER CONNECTIONS AS SHOWN ON DRAWINGS. MINIMUM 3/4"C FOR POWER. PROVIDE 1" CONDUIT FOR COMMUNICATION OUTLET AND 2" CONDUIT FOR A/V OUTLET. PROVIDE ALL OUTLETS AS SHOWN ON FLOOR PLANS. SEE FLOOR PLANS FOR ADDITIONAL REQUIREMENTS FOR CONDUIT AND DATA / AUDIO VISUAL DEVICES. PROVIDE ALL REQUIRED BOX ACCESSORIES FOR COMPLETE AND FUNCTIONAL INSTALLATION. COORDINATE FLOOR TYPES WITH CONSTRUCTION MANAGER. COORDINATE COVER AND FINISH WITH ARCHITECT. COMPLY WITH MANUFACTURERS INSTALLATION REQUIREMENTS. PROVIDE CORROSION / MOISTURE RESISTANT COATING FOR BOXES INSTALLED IN SLAB ON GRADE
(X)	

SUBSCRIPT (X)	MOUNTING	BOX TYPE	DEVICES	APPROVED MANUFACTURERS OR EQUIVALENT
FB1	FLUSH IN GRADE	6-GANG	POWER DATA AUDIO / VISUAL	A. LEGRAND RFB6
FB2	FLUSH IN GRADE	4-GANG	POWER USB	A. LEGRAND RFB4
FB3	FLUSH IN GRADE	4-GANG	POWER	A. LEGRAND RFB4
WB1	FLUSH IN WALL. REFER FLOOR PLAN FOR MOUNT HEIGHT	4-GANG	POWER DATA AUDIO / VISUAL	A. LEGRAND EFSB4

MISCELLANEOUS

SYMBOL	DESCRIPTION
3P/60A NF 3R	DISCONNECT SWITCH, NON-FUSIBLE 3 POLE, 60 AMP, NF: NON-FUSED, 3R: NEMA 3R ENCLOSURE
3P/60A F-50A 3R	DISCONNECT SWITCH, FUSIBLE 3 POLE, 60 AMP, FUSED AT 50 AMPS, 3R: NEMA 3R ENCLOSURE
3P/60A Nx 3R	COMBINATION STARTER / DISCONNECT SWITCH, FUSIBLE 3 POLE, 60 AMP, NEMA x SIZE, 3R: NEMA 3R ENCLOSURE
	MAGNETIC MOTOR STARTER
	ENCLOSED CIRCUIT BREAKER, AS INDICATED
	PANELBOARD, 480 / 277V
	PANELBOARD, 208 /120V
MH	MANHOLE
HH	HANDHOLE
SPD	SURGE PROTECTION DEVICE
	ELECTRICAL METER
TX	TRANSFORMER
	MOTOR CONNECTION, HP: DENOTES HORSEPOWER RATING
EF	EXHAUST FAN
	GROUND BUS BAR
	PUSHBUTTON
	3/4" PLYWOOD TELEPHONE BACKBOARD
	CONCRETE ENCASED DUCTBANK
	HOMERUN TO PANEL INDICATED NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS
	WIRE IN CONDUIT CONCEALED, #12 AWG SIZE WIRE IN 1/2" CONDUIT MINIMUM UNLESS OTHERWISE NOTED
	WIRE IN CONDUIT CONCEALED BELOW SLAB OR GRADE
	CONDUIT EXPOSED
	FLEXIBLE CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB
U	USB POWER OUTLET - FLOOR MOUNTED, LEGRAND TM8USB4*CC6

TELECOMMUNICATION (RACEWAY ONLY)

SYMBOL	DESCRIPTION
X,N	INFORMATION OUTLET, (X = (C)EILING))
	INFORMATION OUTLET, FLOOR MOUNTED
TV	CATV OUTLET, (X= (C)EILING))
TV	TELEVISION OUTLET, FLOOR MOUNTED
S	INTERCOM SPEAKER - CEILING MOUNTED
IC	INTERCOM CALL STATION
IB	INTERCOM BELL
M	INTERCOM MICROPHONE
M	MICROPHONE - FLOOR MOUNTED
V	INTERCOM VOLUME CONTROL
HS	INTERCOM HORN / SPEAKER
AMP	INTERCOM AMPLIFIER
PB	EXIT PANIC BUTTON, PROVIDE 3/4" C WITH PULL WIRE TO DOOR CONTROLLER JUNCTION BOX
#	FIXED CCTV CAMERA
AV	AUDIO VISUAL OUTLET

RECEPTACLE(S)

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N.
	DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. MOUNTED AT 48" UNLESS NOTED OTHERWISE
	QUADRAPLEX RECEPTACLE, 20 AMP, 120V U.O.N.
	QUADRAPLEX RECEPTACLE, 20 AMP, 120V U.O.N. MOUNTED AT 48" UNLESS NOTED OTHERWISE
	SINGLE RECEPTACLE, 20 AMP, 120V U.O.N.
	GFI - TYPE DUPLEX RECEPTACLE (WP: DENOTES WEATHERPROOF COVER)
	GFI - TYPE DOUBLE DUPLEX RECEPTACLE
	GFI - DUPLEX RECEPTACLE MOUNTED AT 48" UNLESS OTHERWISE NOTED
	GFI - DOUBLE DUPLEX RECEPTACLE MOUNTED AT 48" UNLESS OTHERWISE NOTED
	SPECIAL PURPOSE RECEPTACLE (NEMA RATING AS INDICATED)
	QUADRAPLEX RECEPTACLE, TICK MARKS DENOTE EMERGENCY (TYPICAL ALL RECEPTALES)
	DUPLEX RECEPTACLE - HALF SWITCHED
	DUPLEX RECEPTACLE - CEILING MOUNTED
IG	DUPLEX RECEPTACLE WITH ISOLATED GROUND
USB	RECEPTACLE: 2-POWER, 2-USB, POWER OULTET, 20 AMP, 120V U.O.N. PROVIDE LEGRAND TR536USB OR EQUIVALENT
	DUPLEX RECEPTACLE - FLOOR MOUNTED
PP	POWER POLE
J	JUNCTION BOX - CEILING MOUNTED
J	JUNCTION BOX - WALL MOUNTED

FIRE ALARM

SYMBOL	DESCRIPTION
	FACP: FIRE ALARM CONTROL PANEL FATC: FIRE ALARM TERMINAL CABINET FAAP: FIRE ALARM ANNUNCIATOR PANEL EVAC: FIRE ALARM VOICE / EVAC. UNIT
P	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM STROBE ONLY DEVICE MINIMUM 75cd RATING
	FIRE ALARM HORN / STROBE ONLY DEVICE MINIMUM 75cd RATING
	FIRE ALARM SPEAKER / STROBE ONLY DEVICE MINIMUM 75cd RATING
	FIRE ALARM SPEAKER DEVICE
	FIRE ALARM HORN DEVICE MINIMUM 75cd RATING
	FIRE ALARM STROBE ONLY DEVICE MINIMUM 75cd RATING - CEILING MOUNTED
	FIRE ALARM HORN / STROBE ONLY DEVICE MINIMUM 75cd RATING - CEILING MOUNTED
	FIRE ALARM SPEAKER / STROBE ONLY DEVICE MINIMUM 75cd RATING - CEILING MOUNTED
	FIRE ALARM SPEAKER DEVICE - CEILING MOUNTED
	FIRE ALARM HORN DEVICE MINIMUM 75cd RATING - CEILING MOUNTED
	FIRE ALARM HEATER DETECTOR - CEILING MOUNTED
	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED SB: SOUNDER BASE I: IONIZATION CO: CARBON MONOXIDE
	FIRE ALARM SMOKE DETECTOR - WALL MOUNTED SB: SOUNDER BASE CO: CARBON MONOXIDE UF: UNDERFLOOR
S/R	FIRE ALARM DUCT SMOKE DETECTOR S: SUPPLY.....R: RETURN
	TAMPER SWITCH
	FLOW SWITCH
R	FIRE ALARM RELAY
DC	ELECTROMAGNETIC DOOR CONTACT
DH	DOOR HOLDER
RA	FIRE ALARM REMOTE ALARM INDICATOR WITH TEST SWITCH, FLUSH CEILING MOUNTED, WALL MTD. CENTER LINE 48" A.F.F. IN MECHANICAL ROOMS
MM	MONITORING MODULE

LIGHTING

SYMBOL	DESCRIPTION
	CEILING MOUNTED 2'x2' / 2'x4' LUMINAIRE - RECESSED NORMAL POWER
	CEILING MOUNTED 2'x2' / 2'x4' LUMINAIRE - RECESSED EMERGENCY POWER
	CEILING MOUNTED 1'x4' LUMINAIRE RECESSED OR SURFACE MOUNTED - NORMAL POWER
	CEILING MOUNTED 1'x4' LUMINAIRE RECESSED OR SURFACE MOUNTED - EMERGENCY POWER
	CEILING MOUNTED 1'x4' LUMINAIRE PENDANT MOUNTED - NORMAL POWER
	CEILING MOUNTED 1'x4' LUMINAIRE PENDANT MOUNTED - EMERGENCY POWER
	STRIP LUMINAIRE - NORMAL POWER
	STRIP LUMINAIRE - EMERGENCY POWER
	DOWNLIGHT LUMINAIRE - NORMAL POWER
	DOWNLIGHT LUMINAIRE - EMERGENCY POWER
	WALL MOUNTED LUMINAIRE - NORMAL POWER
	WALL MOUNTED LUMINAIRE - EMERGENCY POWER
	CEILING FAN
	TRACK LIGHTING WITH LUMINAIRE
	UNDERCOUNTER LUMINAIRE
	FLOOD LIGHT LUMINAIRE
	POLE LIGHT LUMINAIRE
	BOLLARD LUMINAIRE
	STEP LIGHT LUMINAIRE
	EMERGENCY BATTERY LIGHT UNIT
	EXIT LIGHT - SINGLE FACE WITH DIRECTIONAL ARROW
	EXIT LIGHT - WALL MOUNTED

SWITCHES

SYMBOL	DESCRIPTION
$	SINGLE POWER TOGGLE SWITCH (LETTER DENOTES FIXTURE CONTROLLED)
$3	THREE-WAY TOGGLE SWITCH
$4	FOUR-WAY TOGGLE SWITCH
$M	MOTOR SWITCH
$F	FAN SWITCH
$3P	THREE POSITION SELECTOR SWITCH
$T	TIMER SWITCH (60 MINUTES)
$LV	LOW VOLTAGE SWITCH
$HOA	HAND-OFF-AUTOMATIC SWITCH
$K	KEY SWITCH
$WP	SWITCH - WEATHERPROOF
$OS	WALL SWITCH OCCUPANCY SENSOR
$DOS	DUAL-LEVEL OCCUPANCY SENSOR SWITCH
OS	OCCUPANCY SENSOR - CEILING MOUNTED
OS	OCCUPANCY SENSOR - WALL MOUNTED
PC	PHOTOCELL
LC	LIGHTING CONTACTOR
TC	TIME CLOCK

CODES AND STANDARDS

NFPA-70	NATIONAL ELECTRICAL CODE (2011)
NFPA-72	NATIONAL FIRE ALARM CODE (2010)
NFPA 75	STANDARD FOR THE PROTECTION OF ELECTRONIC COMPUTER / DATA PROCESSING EQUIPMENT (2009)
NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS (2012)
NFPA 90B	STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS (2012)
NFPA 92	RECOMMENDED PRACTICE FOR SMOKE CONTROL SYSTEMS (2012)
NFPA 101	LIFE SAFETY CODE (2012)
NFPA 110	STANDARD FOR EMERGENCY AND STAND-BY POWER SYSTEMS (2010)
2014 EDT.	FLORIDA BUILDING CODE (5th EDITION)
	LOCAL JURISDICATION CODES AND / OR OWNER DESIGN GUIDELINES

GENERAL NOTES

1. ALL SYMBOLS SHOWN MAY NOT BE USED IN THIS PROJECT.
2. #12 AWG NEUTRAL CONDUCTOR SHALL BE INCLUDED FOR EACH BRANCH CIRCUIT UNLESS OTHERWISE NOTED.
3. #12 AWG GREEN GROUND CONDUCTOR SHALL BE INCLUDED IN EACH RACEWAY UNLESS OTHERWISE NOTED.
4. HOME RUNS TO PANEL BOARDS SHALL HAVE A MAXIMUM OF THREE (3) PHASE CONDUCTORS (ONE PER PHASE) PLUS DEDICATED NEUTRAL FOR EACH PHASE CONDUCTOR AND GROUND CONDUCTOR IN EACH CONDUIT.
5. ALL WALL ELECTRICAL OUTLETS SHALL MEET ADA REGULATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
6. ALL TENANT SPACES SHALL BE PROVIDED WITH MEANS OF SUB-METERING FOR GENERAL POWER USAGE. SEE ELECTRICAL POWER RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
7. THE CONTRACTOR SHALL PROVIDE FULLY FUNCTIONAL AND CERTIFIED LIGHTNING PROTECTION SYSTEM. FARADAY TYPE WITH AIR TERMINALS, COPPER WIRING. ALL CABLING AND EQUIPMENT INSTALLATION SHALL BE COORDINATED WITH ROOF SYSTEM CONTRACTOR.
8. THE TERM "CONTRACTOR" USED THROUGHOUT THE DESIGN CRITERIA PACKAGE DOCUMENTS (DCP) SHALL MEAN THE "DESIGN BUILDER" FOR THE PROJECT. THE DESIGN CRITERIA PACKAGE DOCUMENTS SHALL INCLUDE ALL DRAWINGS, SPECIFICATIONS, AND CONTRACT REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROPOSED GA TERMINAL AND RELATED WORK. THE DESIGN CRITERIA PACKAGE DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL ESTABLISH THE BASE LINE STANDARD FOR THE PROJECT. THE DESIGN BUILDER MAY SUBMIT SUBSTITUTIONS FOR CONSIDERATION BY THE OWNER AND THE DESIGN CRITERIA PROFESSIONAL AS OUTLINED IN THE DIVISION 01 SPECIFICATIONS AND THE PROCUREMENT DOCUMENTS.

COMMISSIONING

1. THE CONTRACTOR SHALL DEMONSTRATE TO THE ENGINEER OF RECORD AND THE DESIGN CRITERIA PROFESSIONAL OR OWNER'S REPRESENTATIVE BY WAY OF FUNCTIONAL PERFORMANCE TESTING OF ALL AUTOMATIC LIGHTING SYSTEMS. DEMONSTRATE THE PERFORMANCE OF SYSTEMS DESCRIBED HERE IN, INCLUDING: CALIBRATION OF CONTROL HARDWARE AND SOFTWARE, ADJUSTMENT AND PROGRAMMING IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. DEMONSTRATE THE PLACEMENT, SENSITIVITY, AND TIME-OUT ADJUSTMENT FOR OCCUPANCY SENSORS. DEMONSTRATE THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS ON/OFF. DEMONSTRATE THAT THE PLACEMENT AND ADJUSTMENT OF PHOTOSENSORS AND DAYLIGHTING CONTROLS ARE AS SPECIFIED.
CONTRACTOR SHALL HIRE INDEPENDENT THIRD PARTY PROFESSIONAL TO PROVIDE COMMISSIONING FOR THE ENTIRE LIGHTING CONTROL SYSTEM, PER FLORIDA BUILDING CODE.

SHEET INDEX

Ocala International Airport

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November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
N.M.	E.L.	D.F.

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

ELECTRICAL LEGEND

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:

E-000

LUMINAIRE SCHEDULE

IMAGE	TYPE	DESCRIPTION	MANUFACTURER	MOUNTING	LAMP TYPE	VOLTAGE
	A1	COVE APPLICATION LED STRIP, 12" X 2" X 2", WHITE LIGHT, 3500K, 82+ CRI, L70-75,000 HOURS,	INSIGHT: PILOT PCM-7-35K-120-SM-12-ACV-DIM-FINISH-PCML-10/0-10V	COVE, SEE ARCHITECTURAL DETAIL	LED 7W (7W / FT)	120V
	A2	COVE APPLICATION LED STRIP, 48" X 2" X 2", WHITE LIGHT, 3500K, 82+ CRI, L70-75,000 HOURS	INSIGHT: PILOT PCM-7-35K-120-SM-48-ACV-DIM-FINISH-PCML-10/0-10V	COVE, SEE ARCHITECTURAL DETAIL	LED 28W (7W / FT)	120V
	B1	2' X 2' ARCHITECTURAL LED TROFFER, STRAIGHT FLOATING CENTER, 3500K, 82 CRI, L70-65,000 HOURS, 4000 LUMENS	H. E. WILLIAMS: AT3-22-L40/835-D-DIM-120	RECESSED IN ACOUSTICAL CEILING	LED 42W	120V
	B2	2' X 2' ARCHITECTURAL LED TROFFER, STRAIGHT FLOATING CENTER, 3500K, 82 CRI, L70-65,000 HOURS, 4000 LUMENS	H. E. WILLIAMS: AT3-22-L40/835-D-SS-AMW-DIM-120	RECESSED IN ACOUSTICAL CEILING	LED 42W	120V
	C1	2' X 4' ARCHITECTURAL LED TROFFER, STRAIGHT FLOATING CENTER, 3500K, 82 CRI, L70-65,000 HOURS, 4000 LUMENS	H. E. WILLIAMS: AT3-24-L40/835-D-DIM-120	RECESSED IN ACOUSTICAL CEILING	LED 43W	120V
	D1H	4.5" SQUARE LED DOWNLIGHT, TRIM, 3500K, 80 CRI, L70-55,000 HOURS, 900 LUMENS, PROVIDE BAR HANGERS AS REQUIRED.	H. E. WILLIAMS: LSQ45-L20C/835-MWT-HB-DIM-120V	RECESSED IN HARD CEILING	LED 26W	120V
	D1G	4.5" SQUARE LED DOWNLIGHT, TRIM, 3500K, 80 CRI, L70-55,000 HOURS, 900 LUMENS, PROVIDE BAR HANGERS AS REQUIRED.	H. E. WILLIAMS: LSQ45-L20C/835-MWT-TB-DIM-120V	RECESSED IN ACOUSTICAL CEILING	LED 26W	120V
	D2	2" SQUARE LED DOWNLIGHT, TRIM, 3500K, 80 CRI, L70-55,000 HOURS, 800 LUMENS, MEDIUM, PROVIDE BAR HANGERS AS REQUIRED.	H. E. WILLIAMS: 2DR-F-D-L8C/835-M-CS-NC-DL-F-TB-DIM-120V	RECESSED IN ACOUSTICAL CEILING	LED 14W	120V
	D3	6" SQUARE LED DOWNLIGHT, TRIM, 3500K, 80 CRI, L70-55,000 HOURS, 2000 LUMENS, PROVIDE BAR HANGERS AS REQUIRED.	H. E. WILLIAMS: LSQ60-L40C/835-MWT-TB-DIM-120V	RECESSED IN ACOUSTICAL CEILING	LED 40W	120V
	D4	2" SQUARE LED DOWNLIGHT, TRIM, 3500K, 80 CRI, L70-55,000 HOURS, 800 LUMENS, NARROW, PROVIDE BAR HANGERS AS REQUIRED.	H. E. WILLIAMS: 2DR-F-D-L8C/835-N-CS-NC-DL-F-TB-DIM-120V	RECESSED IN ACOUSTICAL CEILING	LED 14W	120V
	D5	6" SQUARE LED DOWNLIGHT, TRIM, 3500K, 80 CRI, L70-55,000 HOURS, 1700 LUMENS, PROVIDE BAR HANGERS AS REQUIRED.	H. E. WILLIAMS: LSQ60-L30C/835-MWT-HB-DIM-120V	RECESSED IN HARD CEILING	LED 36W	120V
	F1	6" X 48" ENCLOSED AND GASKETED INDUSTRIAL LED STRIP, 3500K, 82 CRI, L70-50,000 HOURS	H. E. WILLIAMS: 97-4-L79/835-FR-SSCMB-DIM-120	SUSPENDED OR SURFACE SEE SHEET NOTES	LED 64W	120V
	G1	8' LINEAR ARCHITECTURAL PENDANT, LED, 3500K, 82 CRI	FINELITE HO4-D-RO-8FT -S-835-OPN-120-SC-FA-OE-C1	PENDANT 7'-0" AFF TO BOTTOM OF LUMINAIRE	LED 27W	120V
	H1	1' X 4' STATIC LED TROFFER, 3500K, 80 CRI, L70-50,000 HOURS, 6500 LUMENS	H. E. WILLIAMS: 50-G-S14-L6S/835-F-AF12125-DIM-120	RECESSED IN ACOUSTICAL CEILING	LED 76W	120V
	J1	EXTERIOR WALL PACK LED, UL LISTED FOR WET LOCATIONS	H. E. WILLIAMS: WPM-L8/750-DRV-120	WALL MOUNTED, SURFACE AT 7'-6" AFF TO BOTTOM	LED 11W	120V
	K1	6" EXTERIOR WALL MT CYLINDER, LED, UP 20 Degree / DOWN 60 Degree ADJUSTABLE OPTICS WITH ROUND COLUMN ADAPTER TO MATCH DIAMETER OF COLUMN	LUMINIS: SY602-L2W12R1-25W-UNV-FINISH-30K-R60DN-R20UP	COLUMN MOUNT ON SURFACE, CENTER ON TAPERED PART OF COLUMN, 8'-2" AFF OVERALL, TO CENTER OF LUMINAIRE	LED 25W	120V

NOTES:

1. FINAL FIXTURE COLORS AND FINISHES SHALL BE SELECTED AND APPROVED BY OWNER/ARCHITECT.
2. FOR ALL CONTINUOUS RUN LUMINAIRES, CONTRACTOR SHALL FIELD MEASURE FINAL LENGHTS AND PROVIDE CONTINUOUS ROWS AS REQUIRED TO FILL ENTIRE SPACE.
3. ALL INTERIOR LIGHT SOURCES SHALL BE 3500K. ALL EXTERIOR LIGHT SOURCES SHALL BE 3000K. (UNLESS OTHERWISE NOTED).
4. ALL SPECIFIED LUMINAIRES, AS SHOWN IN THIS SCHEDULE, HAVE BEEN SELECTED BASED ON PHOTOMETRIC PERFORMANCE, ELECTRICAL CHARACTERISTICS, VISUAL COMFORT, AND AESTHETIC INTERPRETATION, AND AS SUCH, ANY CONTRACTOR WISHING TO PROPOSE ALTERNATE LUMINAIRES MUST SUBMIT SUCH REQUEST IN WRITING, 10 WORKING DAYS PRIOR TO BID. THE REQUEST SHALL INCLUDE A COMPLETE SET OF COLOR CATALOG SPECIFICATION SHEETS OF ALL LUMINAIRES, FOR REVIEW. SAMPLES MAY BE REQUIRED ON SELECT LUMINAIRES. APPROVALS SHALL ONLY BE ISSUES BY THE ARCHITECT IN FORM OF AN ADDENDUM TO THE BID DOCUMENTS. CONTRACTOR SHALL BE PREPARED TO COMPENSATE ALL DESIGN CONSULTANTS FOR THE ADDITIONAL TIME REQUESTED FOR THIS REVIEW, AT FAIR MARKET VALUE.

LUMINAIRE SCHEDULE

IMAGE	TYPE	DESCRIPTION	MANUFACTURER	MOUNTING	LAMP TYPE	VOLTAGE
	M1	INGRADE LED FLOOD LIGHT WITH ADJSUTABLE OPTICS AND OFFSET COVER TO LIGHT JOCKEY STATUES	BK LIGHTING HP2-OS-LED-TR-e65-MFL-A9-FINISH-12-MT	INGRADE AND CONC. FOUNDATION	LED 7W	120V
	O1	COVE APPLICATION LED STRIP, EXTERIOR, UL WET, 48" X 2" X 3", WHITE LIGHT, 3000K, ALL ACCESSORIES REQUIRED FOR COMPLETE WORKING SYSTEM	SSL LIGHTING: CVLWET-4-3K-ASYM-ACCESSORIES	SURFACE ON TOP OF BEAM BETWEEN RAFTERS	LED 42W	120V
	P1	LED ARCHITECTURAL PENDANT	BETA CALCO 12 7030 35-XX-OP-SX-SW	SUSPENDED 31'-0" AFF TO BOTTOM OF LUMINAIRE PROVIDE STEM WITH SWIVEL CANOPY	LED 170W	120V
	Q1	48" LINEAR LED, ADJUSTABLE, WALL MOUNT, UPLIGHT,	INSIGHT LIGHTING LIN 11-35K-WW-U-EAS-12"-INT1-DIM-FINISH	WALL MOUNT ON 12" EXTENDED ARM, SEE NOTES ON DRAWINGS	LED 44W	120V
	R1	3" RECESSED LED, ADJUSTABLE, REMOTE DRIVER , ROUND, TRIMMED, 80 CRI,	ZANBONI LIGHTING D1-LUN10-03-5-35-A-3-C-FINISH-Z-0-00	RECESSED IN MANTLE COORDINATE DETAIL WITH ARCHITECT	LED 3.5W	120V
	S1	LINEAR ASYMETRIC 8FT FIXTURE SEMI RECESSED UP LIGHT	INSIGHT LIGHTING LIN 7-35K-WW-U-SRS48"-INT1-DIM-FINISH	SEMI RECESSED IN WALL	LED 28W (7W / FT)	120V
	T1	LED TRACK, SURFACE MOUNTED, INCLUDES 8' TRACK, 3-24 DEGREE NARROW FLOOD HEADS, 3-36 DEGREE FLOOD HEADS, AND ALL ACCESSORIES REQUIRED FOR COMPLETE WORKING SYSTEM	LIGHTOLEAR: NARROW FLOOD: LC-20-835-FINISH TE-LLAV11-RNF-LC20AH SF FLOOD: LC-20-835-FINISH TE-LLAV11-RF-LC20AH SF TRACK: 1' / 6002XX	WALL MOUNT HORIZONTAL ON SIDE OF COVE, CENTER	LED 25W / HEAD	120V
	U1	7 " RECESSED DOWNLIGHT LED, ROUND, WALL-WASH, 6000 LUMENS, 80 CRI	LIGHTOLIER: C7-R-N-120-C6L-60-80-30-W-Z10-120 TRIM: C7-R-WW-CC-FLANGE-CA7RFT	RECESSED IN SOFFIT, COORDINATE WITH ARCHITECT	LED 50W	120V
	V1	SURFACE MOUNT LED FLOOD WITH FIELD ADJUSTABLE DISTRIBUTION TO ACCENT TREES, INCLUDES LUMINAIRE AND FIELD ADJUSTABLE EXTRA LENSES	COLOR KINETCIS: LUMINAIRE: 523-000036-03 ONE 23 DEGREE LENS: 120-000080-01 ONE 41 DEGREE LENS: 120-000080-02	YOKE PROVIDE REQUIRED MOUNTING ACCESSORIES AND CONC. FOUNDATION	LED 49W	120V
	W1	EXTERIOR BOLLARD , LED	LUMINIS LIGHTING MA30-L1W18-R5-30K- 120-FINISH	CONCRETE BASE MOUNTED	LED 18W	120V
	Y1	EXTERIOR STEP LIGHT, LED, PROVIDE WITH LOUVER	FC LIGHTING FCSL201-120-LED-30K-17W-FINISH	RECESSED IN SIDE OF STEP	LED 17W	120V
	Z1	4,5" ROUND LED DOWNLIGHT LED, 1100 LUMENS, 80 CRI, 3000K	H. E. WILLIAMS: L45-L15C/830-CS/W-LAR-WET/CC-AC/CAL-DRV-120	RECESSED IN SOFFIT	LED 19W	120V
	X1	EDGE-LIT LED EXIT LUMINAIRE, UNIVERSAL MOUNTING, FIELD INSTALLABLE ARROWS	BEGHELLI: CURVA CRV-HT-LR-1-W-S-AL-RKBAL-HT	RECESSED IN CEILING	LED 2W	120V
	X2	EDGE-LIT LED EXIT LUMINAIRE, UNIVERSAL MOUNTING, FIELD INSTALLABLE ARROWS	BEGHELLI: CURVA CRV-HT-LR-1-W-S-AL	SURFACE	LED 2W	120V
	X3	EDGE-LIT LED EXIT LUMINAIRE, UNIVERSAL MOUNTING, FIELD INSTALLABLE ARROWS, 2 SIDES	BEGHELLI: CURVA CRV-HT-LR-2-W-S-AL-RKBAL-HT	RECESSED IN CEILING	LED 2W	120V

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Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
N.M.	E.L.	D.F.

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

LUMINAIRE SCHEDULE

Project Number:	Division :
No. 161641	Architecture

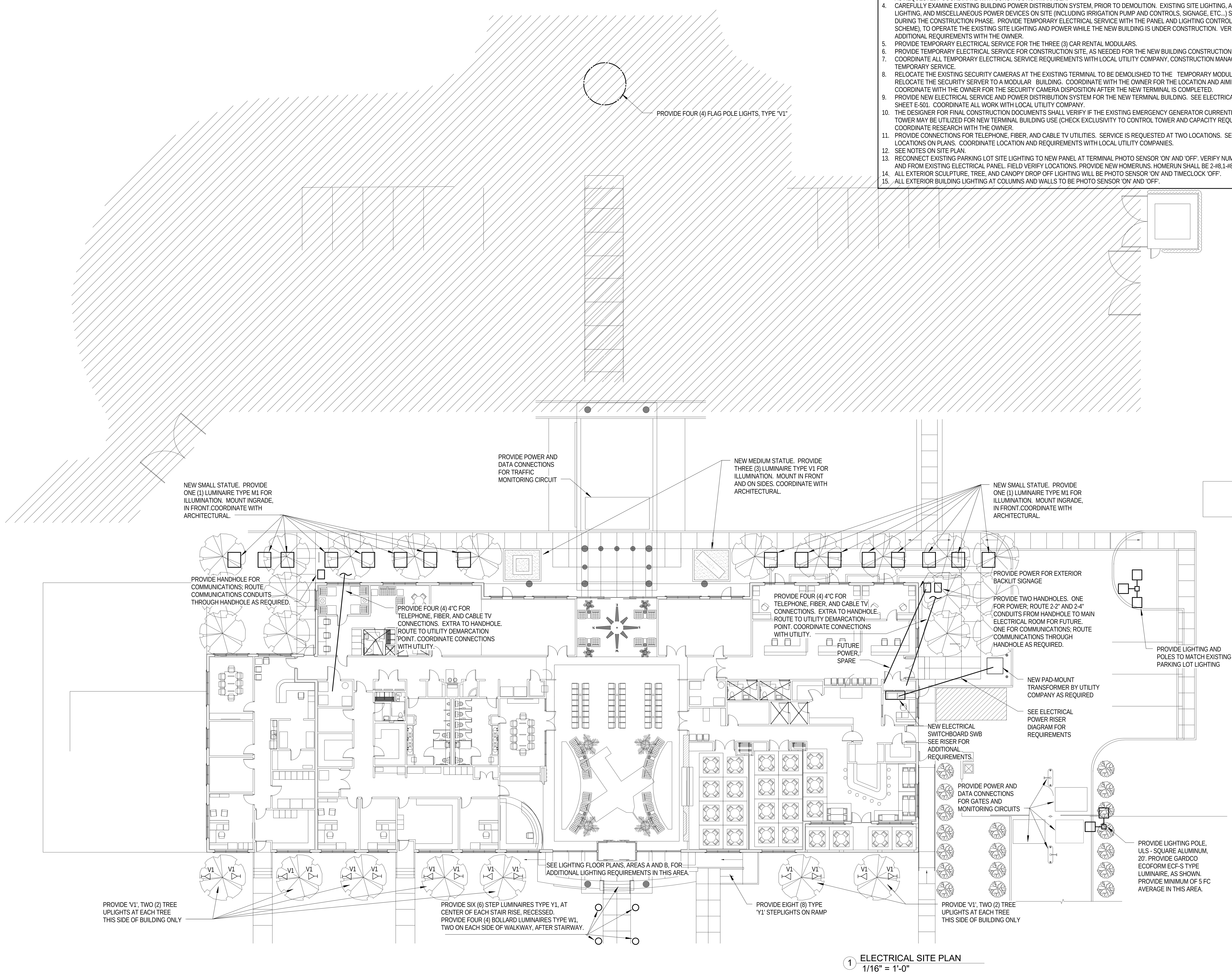
Date: 11/15/17

Drawing Number:

E-001

GENERAL NOTES - ELECTRICAL SITE

1. ELECTRICAL CONTRACTOR SHALL COORDINATE PHASING REQUIREMENTS WITH CONSTRUCTION MANAGER AND ARCHITECT, PRIOR TO COMMENCING ANY WORK.
2. ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO BID AND ANY CONSTRUCTION TO ASCERTAIN THE EXISTING CONDITIONS AND LIMITS OF DEMOLITION AND NEW CONSTRUCTION.
3. EXISTING TERMINAL BUILDING SHALL BE DEMOLISHED. THE ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND DISCONNECT ALL ASSOCIATED POWER CONNECTIONS AND MAKE EQUIPMENT SAFE FOR DEMOLITION, AND ASSIST CONSTRUCTION MANAGER AND DEMOLITION CREW DURING DEMOLITION WORK, AS REQUESTED. COORDINATE WITH CONSTRUCTION MANAGER.
4. CAREFULLY EXAMINE EXISTING BUILDING POWER DISTRIBUTION SYSTEM, PRIOR TO DEMOLITION. EXISTING SITE LIGHTING, APRON LIGHTING, PARKING LOT LIGHTING, AND MISCELLANEOUS POWER DEVICES ON SITE (INCLUDING IRRIGATION PUMP AND CONTROLS, SIGNAGE, ETC...) SHALL REMAIN OPERATIONAL DURING THE CONSTRUCTION PHASE. PROVIDE TEMPORARY ELECTRICAL SERVICE WITH THE PANEL AND LIGHTING CONTROLS (CONTROLS TO MATCH EXISTING SCHEME), TO OPERATE THE EXISTING SITE LIGHTING AND POWER WHILE THE NEW BUILDING IS UNDER CONSTRUCTION. VERIFY EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH THE OWNER.
5. PROVIDE TEMPORARY ELECTRICAL SERVICE FOR THE THREE (3) CAR RENTAL MODULARS.
6. PROVIDE TEMPORARY ELECTRICAL SERVICE FOR CONSTRUCTION SITE, AS NEEDED FOR THE NEW BUILDING CONSTRUCTION.
7. COORDINATE ALL TEMPORARY ELECTRICAL SERVICE REQUIREMENTS WITH LOCAL UTILITY COMPANY, CONSTRUCTION MANAGER, AND THE OWNERS OF EACH TEMPORARY SERVICE.
8. RELOCATE THE EXISTING SECURITY CAMERAS AT THE EXISTING TERMINAL TO BE DEMOLISHED TO THE TEMPORARY MODULAR BUILDINGS. PROVIDE OR RELOCATE THE SECURITY SERVER TO A MODULAR BUILDING. COORDINATE WITH THE OWNER FOR THE LOCATION AND AIMING OF THE SECURITY CAMERAS. COORDINATE WITH THE OWNER FOR THE SECURITY CAMERA DISPOSITION AFTER THE NEW TERMINAL IS COMPLETED.
9. PROVIDE NEW ELECTRICAL SERVICE AND POWER DISTRIBUTION SYSTEM FOR THE NEW TERMINAL BUILDING. SEE ELECTRICAL POWER RISER DIAGRAM ON SHEET E-501. COORDINATE ALL WORK WITH LOCAL UTILITY COMPANY.
10. THE DESIGNER FOR FINAL CONSTRUCTION DOCUMENTS SHALL VERIFY IF THE EXISTING EMERGENCY GENERATOR CURRENTLY SERVING THE CONTROL TOWER MAY BE UTILIZED FOR NEW TERMINAL BUILDING USE (CHECK EXCLUSIVITY TO CONTROL TOWER AND CAPACITY REQUIREMENTS). COORDINATE RESEARCH WITH THE OWNER.
11. PROVIDE CONNECTIONS FOR TELEPHONE, FIBER, AND CABLE TV UTILITIES. SERVICE IS REQUESTED AT TWO LOCATIONS. SEE TELEPHONE BACKBOARD LOCATIONS ON PLANS. COORDINATE LOCATION AND REQUIREMENTS WITH LOCAL UTILITY COMPANIES.
12. SEE NOTES ON SITE PLAN.
13. RECONNECT EXISTING PARKING LOT SITE LIGHTING TO NEW PANEL AT TERMINAL PHOTO SENSOR 'ON' AND 'OFF'. VERIFY NUMBER OF EXISTING CIRCUITS IN FIELD AND FROM EXISTING ELECTRICAL PANEL. FIELD VERIFY LOCATIONS. PROVIDE NEW HOMERUNS. HOMERUN SHALL BE 2-#8,1-#8G, 1"C.
14. ALL EXTERIOR SCULPTURE, TREE, AND CANOPY DROP OFF LIGHTING WILL BE PHOTO SENSOR 'ON' AND TIMECLOCK 'OFF'.
15. ALL EXTERIOR BUILDING LIGHTING AT COLUMNS AND WALLS TO BE PHOTO SENSOR 'ON' AND 'OFF'.



1 ELECTRICAL SITE PLAN
1/16" = 1'-0"

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Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

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N.M.	N.M.	D.F.

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
ELECTRICAL SITE PLAN

Project Number:	Division :
No. 161641	Architecture

Date:
11/15/17

Drawing Number:
E-101

GENERAL NOTES - POWER

1. A COMPLETE AND FUNCTIONAL ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE PROVIDED AND INSTALLED FOR THE FACILITY. SEE ELECTRICAL POWER RISER DIAGRAM FOR PANELBOARD REQUIREMENTS. THE INTERIOR ELECTRICAL DISTRIBUTION SYSTEM SHALL BE DESIGNED WITH A MINIMUM OF 20% EXCESS LOAD CAPACITY IN ALL NEW PANELBOARDS. ADDITIONALLY, ALL DISTRIBUTION NEW PANELBOARDS SHALL HAVE 20% EXCESS PHYSICAL SPACE FOR FUTURE USE. INDEPENDENT TENANTS POWER USAGE SAHLL BE METERED SEPARATELY. PROVIDE SECONDARY METERING SYSTEM AND READING SOFTWARE. PROVIDE TRAINING FOR THE OWNER.
2. PROVIDE ALL REQUIRED POWER DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT BREAKERS AND BRANCH CIRCUITS TO ALL OUTLETS OR EQUIPMENT REQUIRING POWER.
3. ELECTRICAL ROOMS ARE SHOWN AS PROPOSED. COORDINATE FINAL LOCATION AND SIZE OF ELECTRICAL ROOMS WITH THE ARCHITECT FOR FINAL CONSTRUCTION DOCUMENT.
4. THE OWNER DESIRES TO UTILIZE EXISTING EMERGENCY GENERATOR LOCATED ADJACENT TO EXISTNG CONTROL TOWER. THE DESIGNER FOR FINAL CONSTRUCTION DOCUMENTS SHALL VERIFY IF EXISTING GENERATOR IS AVAILABLE FOR USE BY THIS FACILITY, AND IF EXISTING GENERATOR HAS CAPACITY TO CONNECT ALL REQUIRED EMERGENCY BRANCHES AND LOADS. COORDINATE EMERGENCY GENERATOR REQUIREMENTS AND INVESTIGATION WITH THE OWNER.
5. EMERGENCY SYSTEMS WILL CONSIST OF LIFE SAFETY BRANCH, LEGALY REQUIRED BRANCH, AND NON-ESSENTIAL BRANCH, AS REQUIRED BY FINAL DESIGN. THE DESIGNER SHALL COORDINATE LOAD REQUIREMENTS WITH THE OWNER.
6. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM SIZE FOR POWER, INSTALLED IN CONDUIT.
7. ALL POWER OUTLETS SHALL BE 20 AMP 125 VOLT NEMA 5-20R HEAVY DUTY SPECIFICATION GRADE (EXCEPT WHERE SPECIAL OUTLETS ARE REQUIRED FOR SPECIFIC EQUIPMENT) PROVIDE A MINIMUM OF 1-GENERAL PURPOSE DUPLEX OUTLET PER WALL OF ALL ROOMS (EXCEPT FOR TOILET, MECHANICAL, ELECTRICAL STORAGE OR JANITORS ROOMS). PROVIDE ADDITIONAL OUTLETS AS REQUIRED FOR BREAK ROOM EQUIPMENT, VENDING MACHINES, PRINTERS, SHREDDERS OR SIMILAR EQUIPMENT.
8. COORDINATE POWER REQUIREMENTS WITH OTHER TRADES, AND PROVIDE POWER CONNECTIONS AS REQUIRED.

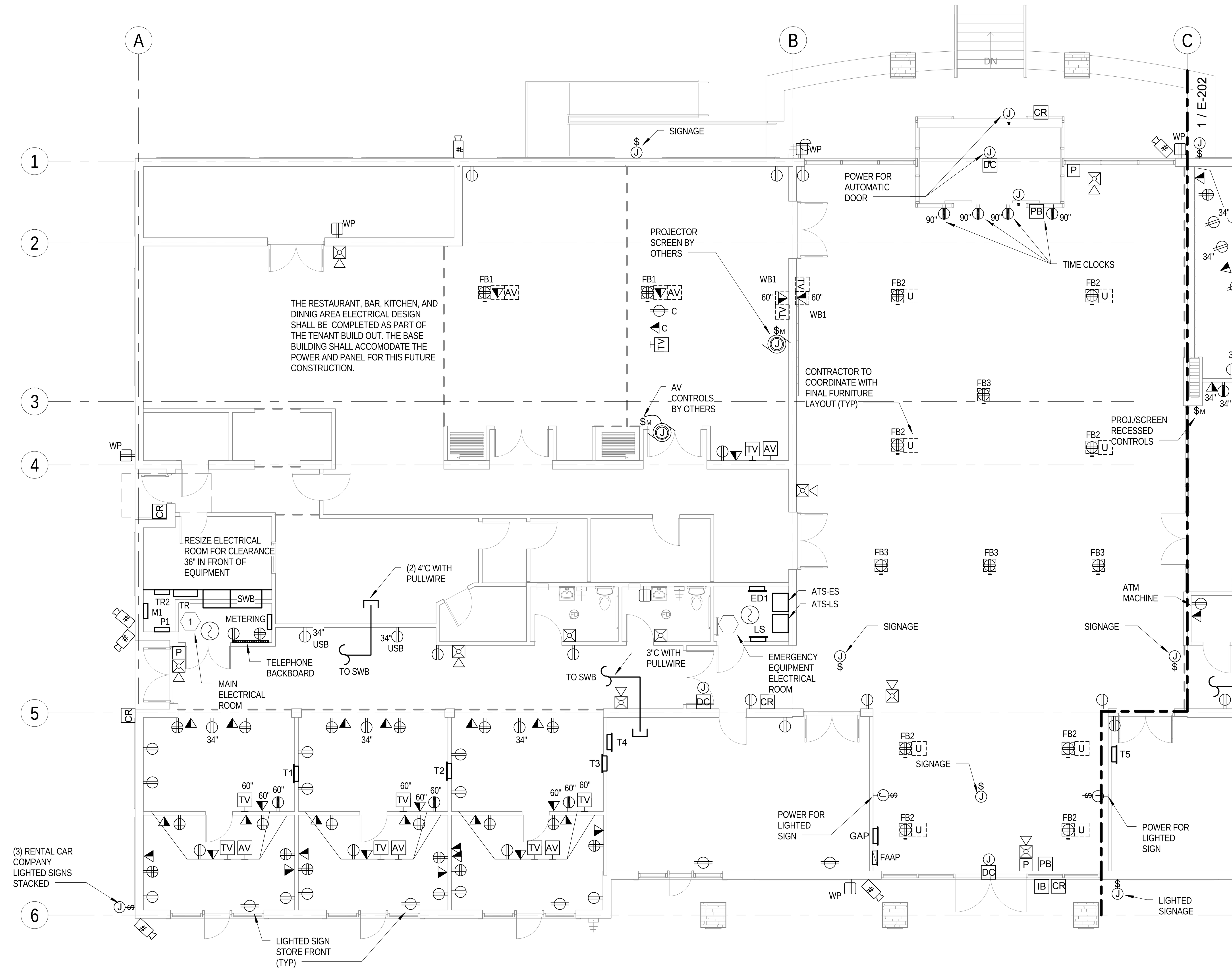
GENERAL NOTES - SYSTEMS

POWER RECEPTACLES AND SYSTEM DEVICES ARE SHOWN FOR GENERAL INTENT OF DESIGN. PROVIDE ADDITIONAL DEVICES AS REQUIRED TO IMPLEMENT EACH SPECIFIC SYSTEM AND SATISFY THE REQUIREMENTS OF MANUFACTURER PROVIDING SAID SYSTEM.

1. FIRE ALARM AND MASS NOTIFICATION SYSTEM
   FIRE ALARM SYSTEM IS SHOWN FOR GENERAL DESIGN INTENT.
   PROVIDE A COMBINATION FIRE ALARM AND MASS NOTIFICATION SYSTEM.
   PROVIDE MANUAL PULL STATIONS AT ALL EXITS.
   PROVIDE DUCT MOUNTED SMOKE DETECTORS AND AIR-HANDLING UNIT SHUT DOWN RELAYS FOR ALL HVAC AIR-HANDLING UNITS, PER CODE. COORDINATE WITH MECHANICAL.
   PROVIDE ADDITIONAL INITIATING DEVICES IN ACCORDANCE WITH NFPA.
   PROVIDE SELF-AMPLIFIED SPEAKER / STROBE COMBINATION DEVICES FOR NOTIFICATION.
   PROVIDE ALL REQUIRED CONNECTIONS TO FIRE PROTECTION EQUIPMENT.
   PROVIDE FIRE ALARM CONTROL PANEL.
   PROVIDE ANNUNCIATOR PANEL IN MAIN LOBBY.
2. PROVIDE FIBER, COPPER (VOICE), AND CABLE TV INFRASTRUCTURE FOR THE NEW BUILDING. COORDINATE REQUIREMENTS WITH THE OWNER AND LOCAL UTILITY PROVIDER.
3. INTRUSION DETECTION SYSTEM (IDS)
   PROVIDE INTRUSION DETECTION SYSTEM.
   THE SYSTEM SHALL CONSIST OF THE FOLLOWING HARDWARE: BALANCED MAGNETIC DOOR SWITCHES, PASSIVE INFRARED MOTION SENSORS AND KEY PADS.
   COORDINATE ADDITIONAL REQUIREMENTS WITH THE OWNER.
4. ACCESS CONTROL SYSTEM (ACS)
   PROVIDE ACCESS CONTROL SYSTEM.
   COORDINATE ALL REQUIREMENTS WITH THE OWNER.
5. CLOSED CIRCUIT TV (CCTV)
   PROVIDE CLOSED CIRCUIT TV SYSTEM.
   COORDINATE ALL REQUIREMENTS WITH THE OWNER.
6. CABLE TV SYSTEM (CATV)
   PROVIDE CABLE TV SYSTEM.
   PROVIDE PRE-WIRED CABLE TELEVISION SYSTEM WITH WALL MOUNTED CABLE OUTLETS IN CONFERENCE ROOMS, AND WHERE SHOWN IN ARCHITECTURAL DRAWINGS. ELECTRICAL POWER OUTLETS ADJACENT TO CATV OUTLETS SHALL BE PROVIDED AT EACH LOCATION.
7. AUDIO VISUAL SYSTEM
   COORDINATE ALL REQUIREMENTS WITH THE OWNER.
8. TELEPHONE / DATA SYSTEMS
   ALL WORK SHALL BE PERFORMED BY AN INDUSTRY CERTIFIED TELECOMMUNICATIONS CONTRACTOR. CONTRACTOR SHALL HAVE A MINIMUM OF 3 YEARS EXPERIENCE IN THE APPLICATION, INSTALLATION AND TESTING OF THE SPECIFIED SYSTEMS AND EQUIPMENT. THE CONTRACTOR SHALL HAVE THE NAME AND CERTIFICATION NUMBER OF A BICSI CERTIFIED REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER (RCDD) WHO IS A PERMANENT EMPLOYEE OF THE STRUCTURED CABLING SYSTEM CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN THIS RCDD, OR ANOTHER RCDD APPROVED BY THE GOVERNMENT, IN HIS PERMANENT EMPLOYMENT THROUGHOUT THIS PROJECT. THE RCDD SHALL HAVE OVERALL RESPONSIBILITY FOR CERTIFYING THAT THE INSTALLED STRUCTURED CABLING SYSTEM CONFORMS TO THESE CONTRACT DOCUMENTS AND TO THE REFERENCED EIA/TIA, IEEE, BICSI, UFC, AND UL STANDARDS. ALL SUPERVISION AND INSTALLERS ASSIGNED TO THE INSTALLATION OF THIS SYSTEM OR ANY OF ITS COMPONENTS SHALL HAVE FACTORY CERTIFICATION FROM EACH EQUIPMENT MANUFACTURER THAT THEY ARE QUALIFIED TO INSTALL AND TEST THE PROVIDED PRODUCTS. GENERAL ELECTRICAL TRADE STAFF (ELECTRICIANS) SHALL NOT BE USED FOR THE INSTALLATION OF THE PREMISES DISTRIBUTION SYSTEM CABLES AND ASSOCIATED HARDWARE. ALL INSTALLERS ASSIGNED TO THE INSTALLATION OF THIS SYSTEM OR ANY OF ITS
   COMPONENTS SHALL HAVE A MINIMUM OF 3 YEARS OF EXPERIENCE IN THE INSTALLATION OF THE SPECIFIED COPPER AND FIBER OPTIC CABLE AND COMPONENTS. CONSTRUCTION SUBMITTALS SHALL INCLUDE MANUFACTURER'S CATALOG INFORMATION SHOWING DIMENSIONS, COLORS, AND CONFIGURATIONS. THE BUILDING STRUCTURED WIRING SYSTEM SHALL BE DESIGNED BY A REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER (RCDD). THE DESIGN DRAWING OF THE COMMUNICATIONS AND SECURITY SYSTEMS SHALL CONSIST OF DETAILED CONSTRUCTION DRAWINGS DETAILING THE EXACT REQUIREMENTS OF THE SYSTEM.
   THE SYSTEMS SHALL BE FULLY WIRED AND TERMINATED IN OUTLETS AND PATCH PANELS. ALL CABLES SHALL BE PLENUM RATED.
   PROVIDE TESTING.
9. SECURITY SYSTEM PROVIDED BY CONTRACTOR TO BE COMPATIBLE AND INTEGRATED INTO THE AIRPORTS EXISTING SECURITY SYSTEM.

KEYNOTES ?

NUMBER	NOTES
1	COORDINATE RESIZING OF THIS ELECTRICAL ROOM WITH THE ARCHITECT. FOLLOWING ELECTRICAL EQUIPMENT SHALL BE LOCATED IN THIS ROOM: SWITCHBOARD SWB, SECONDARY (OWNER) POWER METERS ENCLOSURE, PANELS M1, AND P1, AND TELEPHONE BACKBOARD. RESTAURANT TENANT PANEL AND ADDITIONAL EQUIPMENT IS PREFERED TO BE LOCATED IN THIS ROOM AS WELL.



1 POWER FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"
SCALE: 0' - 0 1/8" = 1' - 0"

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Key Plan:

Design Criteria Package
November 15, 2017

REVISIONS

No.	Description	Date	By

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N.M.	E.L.	D.F.

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
POWER FLOOR PLAN - AREA A

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

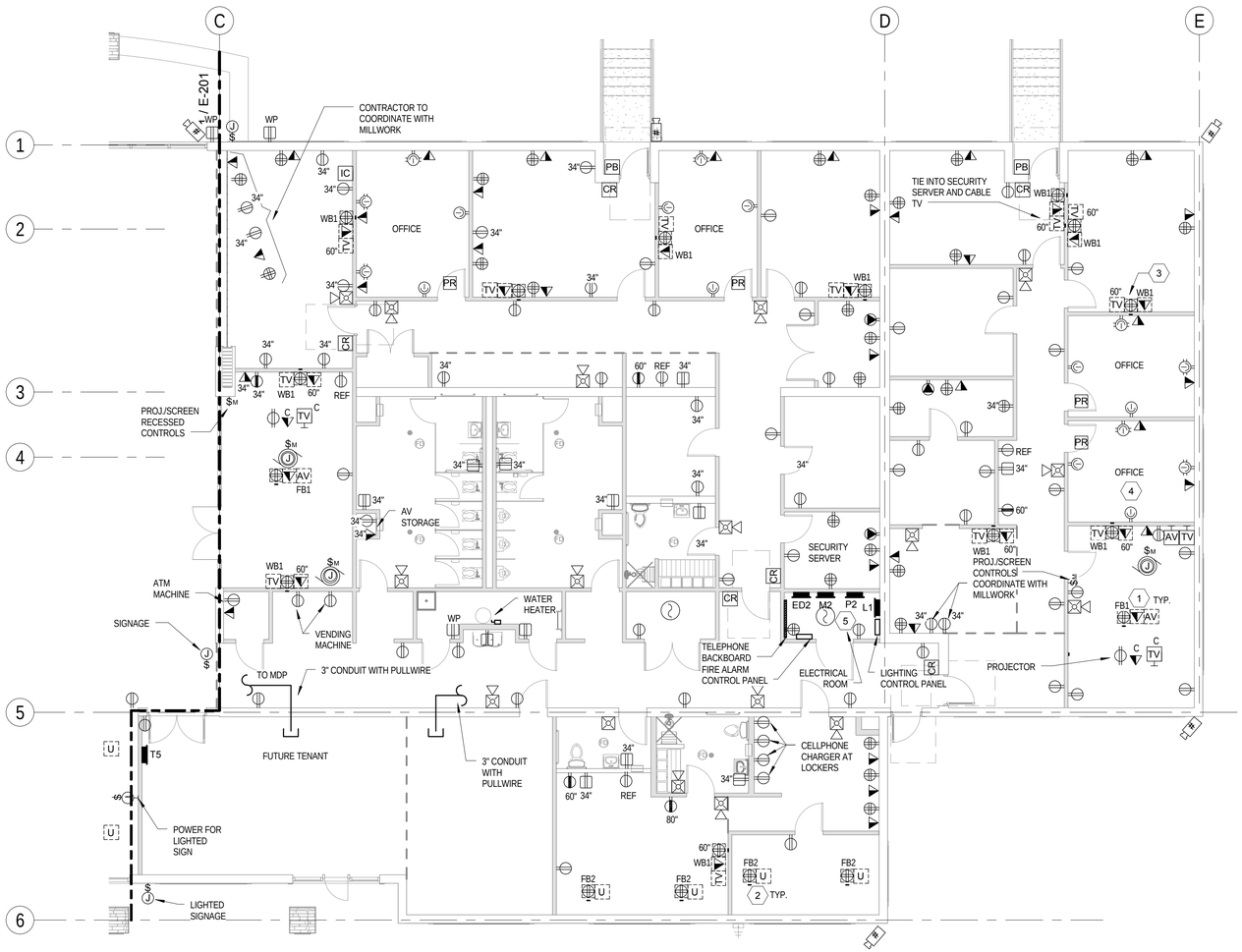
Drawing Number: E-201

GENERAL SHEET NOTES

A. ALL WB1 TYPE BOXES AV, TV, AND ALL OTHER TECHNOLOGY SYSTEM DEVICES SHALL TIE INTO SECURITY SERVER AND CABLE TV.
B. PROVIDE FULLY FUNCTIONAL AND OPERATIONAL SECURITY, ACCESS, AND CLOSED CIRCUIT TV SYSTEMS. COORDINATE ALL REQUIREMENTS WITH THE OWNER'S REPRESENTATIVE.
C. SEE GENERAL NOTES - SYSTEMS ON SHEET E201 FOR ADDITIONAL REQUIREMENTS.
D. SEE GENERAL NOTES - POWER ON SHEET E201 FOR ADDITIONAL REQUIREMENTS.

KEYNOTES

NUMBER	NOTES
1	PROVIDE A RECESSED FLOORBOX, LEGRAND RFB6. REFER TO ELECTRICAL BOX LEGEND FOR FURTHER DETAILS. ROUTE POWER COMPARTMENT CONDUIT TO ELECTRICAL PANELBOARD AS SHOWN. ROUTE INFORMATION AND A/V CONDUITS UNDERGROUND TO CLOSETS WALL, THEN UP TO ABOVE CEILING LEVEL, TURN 90, AND PROVIDE BUSHING AND PULL WIRE. VERIFY EXACT PLACEMENT WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. COORDINATE COVER AND FINISH WITH ARCHITECT AND OWNER PRIOR TO ORDER.
2	PROVIDE A RECESSED FLOORBOX, LEGRAND RFB4. REFER TO ELECTRICAL BOX LEGEND FOR FURTHER DETAILS. ROUTE POWER COMPARTMENT CONDUIT TO ELECTRICAL PANELBOARD AS SHOWN. VERIFY EXACT PLACEMENT WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. COORDINATE COVER AND FINISH WITH ARCHITECT AND OWNER PRIOR TO ORDER.
3	PROVIDE A RECESSED WALLBOX, LEGRAND EFSB4, REFER TO ELECTRICAL BOX LEGEND FOR FURTHER DETAILS. ROUTE POWER COMPARTMENT CONDUIT TO ELECTRICAL PANELBOARD AS SHOWN. ROUTE INFORMATION, A/V, AND TELEVISION CONDUITS TO CLOSETS WALL, THEN UP TO ABOVE CEILING LEVEL, TURN 90, AND PROVIDE BUSHING AND PULL WIRE. VERIFY EXACT PLACEMENT WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. COORDINATE COVER WITH ARCHITECT AND OWNER PRIOR TO ORDER.
4	ALL RECEPTACLES WITHIN THIS ROOM SHALL BE AUTOMATICALLY CONTROLLED. POWER RECEPTACLE SYMBOL INDICATES TOP HALF SHALL BE CONTROLLED AS SUCH. REFER TO ELECTRICAL DETAILS SHEET FOR FURTHER INFORMATION.
5	COORDINATE RESIZING OF THIS ELECTRICAL ROOM WITH THE ARCHITECT. FOLLOWING ELECTRICAL EQUIPMENT SHALL BE LOCATED IN THIS ROOM: PANELS M2, P2, AND L1, LIGHTING CONTROL PANEL, FIRE ALARM CONTROL PANEL, ED2, AND TELEPHONE BACKBOARD.
6	COORDINATE RESIZING OF THIS ELECTRICAL ROOM WITH THE ARCHITECT. THIS ROOM SHALL BE DESIGNATED AS EMERGENCY EQUIPMENT ONLY. FOLLOWING EQUIPMENT SHALL BE LOCATED IN THIS ROOM: AUTOMATIC TRANSFER SWITCHES ATS-LS AND ATS-E, AND PANELS ED1 AND LS.



1 POWER FLOOR PLAN - AREA B

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

0 4' - 0" 8' - 0" 16' - 0"

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

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November 15, 2017

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Designed by:	Drawn by:	Checked by:
N.M.	E.L.	D.F.

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

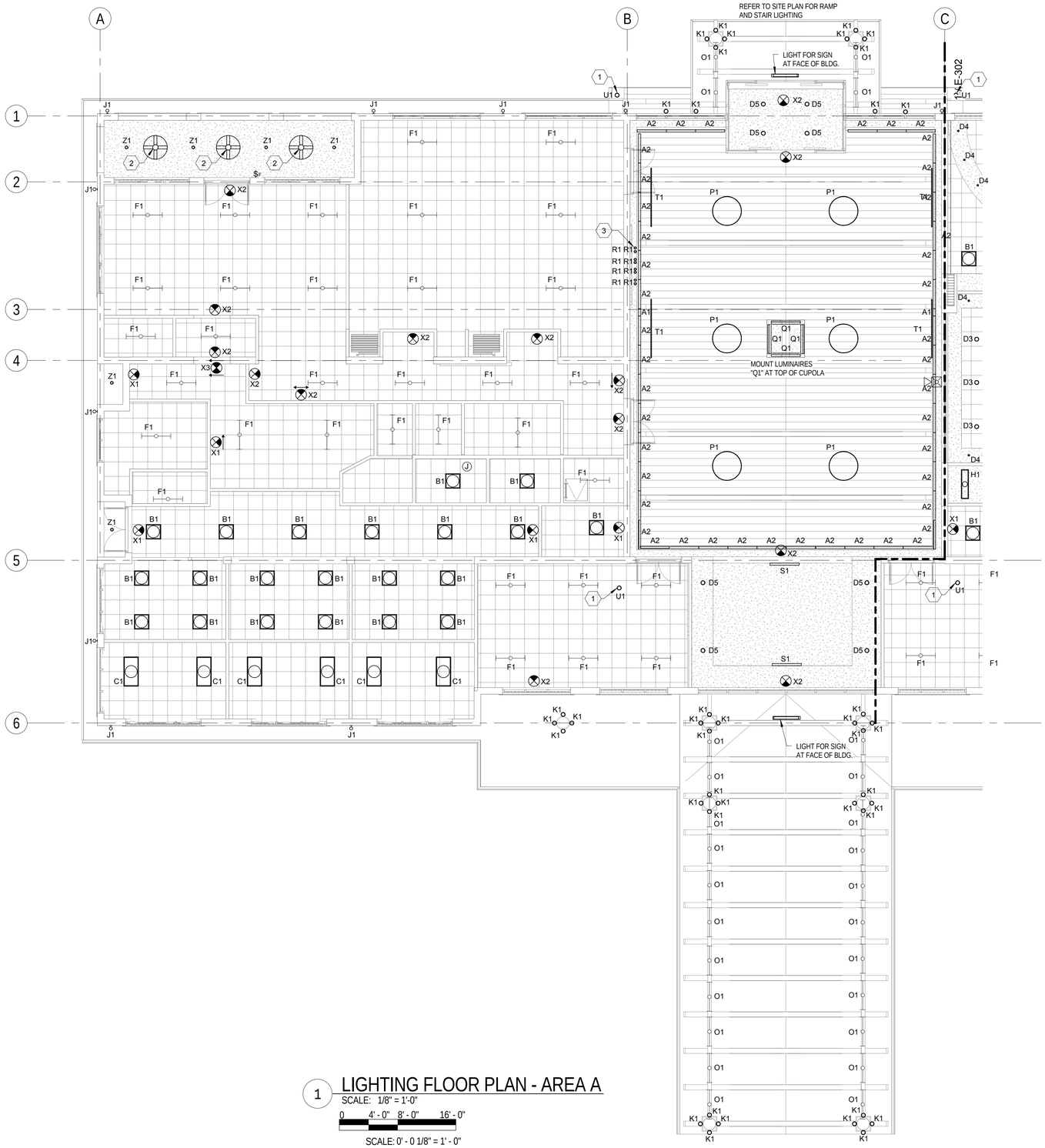
POWER FLOOR PLAN - AREA B

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:

E-202



1 LIGHTING FLOOR PLAN - AREA A

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

0 4' - 0" 8' - 0" 16' - 0"

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

GENERAL NOTES - LIGHTING

1. PROVIDE COMPLETE AND FUNCTIONAL LIGHTING SYSTEM FOR THE FACILITY, INCLUDING LUMINAIRES AND LIGHTING CONTROLS. SEE LUMINAIRE SCHEDULE AND LIGHTING CONTROLS NOTES FOR REQUIREMENTS. PROVIDE ALL REQUIRED HARDWARE, MATERIALS, AND CONNECTIONS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
2. LUMINAIRES ARE SHOWN ON PLANS AS A GUIDE AND AN INTENT OF DESIGN. FINAL LUMINAIRE DESIGN AND ASSOCIATED ILLUMINATION LEVELS SHALL BE IN ACCORDANCE WITH IES RECOMMENDATIONS. PROVIDE LIGHTING CALCULATIONS FOR EACH AREA, AND VERIFY COMPLIANCE WITH CODES.
3. LIGHTING CONTROLS ARE NOT SHOWN ON FLOOR PLANS. THE INTENT IS DESCRIBED IN LIGHTING CONTROL NOTES. THE DESIGNER FOR FINAL CONSTRUCTION DOCUMENTS SHALL COORDINATE EXACT CONTROL SCHEME AND SPECIFIC CONTROL REQUIREMENTS (TIMING / OCCUPANCY / PHOTOCELL) WITH THE OWNER. ENSURE THAT ALL CONTROLS ARE IN COMPLIANCE WITH FLORIDA BUILDING CODE ENERGY CONSERVATION, AND ASHRAE 90.1.
4. EMERGENCY LIGHTING IS NOT SHOWN AT THIS TIME. THE DESIGNER FOR FINAL CONSTRUCTION DOCUMENTS SHALL DESIGNATE LUMINAIRES IN SPACES AS REQUIRED BY CODE, TO BE CONNECTED THROUGH THE LIFE SAFETY BRANCH OF EMERGENCY SYSTEM POWERED BY EMERGENCY GENERATOR.

LIGHTING CONTROLS NOTES

LIGHTING CONTROLS SHALL COMPLY WITH FLORIDA BUILDING CODE, ENERGY CONSERVATION CODE, AND ASHRAE 90.1
PROVIDE OPERATIONAL AND FULLY FUNCTIONING LIGHTING CONTROL SYSTEM.
LIGHTING CONTROL SYSTEM SHALL BE COMMISSIONED BY AN INDEPENDENT QUALIFIED THIRD PARTY, NOT INVOLVED IN THE FINAL DESIGN.
LIGHTING CONTROLS SHALL BE LOCAL (OCCUPANCY SENSOR AND PHOTOCELL CONTROL) AND PROGRAMMABLE (BY MEANS OF LIGHTING CONTROL PANEL).

PROVIDE LIGHTING CONTROL PANEL, INTELLIGENT LIGHTING CONTROLS, LIGHTMASTER.
ALL CORRIDORS AND COMMON PUBLIC SPACES SHALL BE TIME CONTROLLED BY LIGHTING CONTROL PANEL.
EXTERIOR LIGHTING, INCLUDING BUILDING ENVELOPE LUMINAIRES, SITE LUMINAIRES, APRON LUMINAIRES, AND LANDSCAPE LUMINAIRES SHALL BE TIME OR PHOTOCELL CONTROLLED BY LIGHTING CONTROL PANEL. COORDINATE CONTROL SCHEME AND TIMING WITH THE OWNER.

ALL OFFICES AND CONFERENCE ROOMS SHALL BE PROVIDED WITH LOCALIZED LIGHTING CONTROLS; OCCUPANCY SENSORS, PHOTOCELL, AND DIMMING LIGHTING SWITCHES. PROVIDE CONTROL DEVICES TO COMPLY WITH ASHRAE 90.1. PROVIDE ALL REQUIRED HARDWARE AND LOW VOLTAGE CONNECTIONS BETWEEN CONTROL DEVICES TO IMPLEMENT CONTROL SCHEME FOR EACH ROOM. ALL LUMINAIRES SHALL BE CONNECTED DIMMABLE, BY DIMMING SWITCH AND/OR BY LOCAL PHOTOCELL.
STORAGE ROOMS AND SUPPORT SPACES SHALL BE PROVIDED WITH LOCALIZED OCCUPANCY SENSOR CONTROLS.
TENNANT SPACES AND RESTAURANT ARE DESIGNED AS EMPTY SHELL. PROVIDE "STUMBLE" LIGHTING WITH MANUAL CONTROLS.

KEYNOTES

NUMBER	NOTES
1	MOUNT LUMINAIRE IN SOFFIT AT ROOF LEVEL. PROVIDE POWER CONNECTION TO BUILDING EXTERIOR LIGHTING CIRCUIT.
2	FUTURE CEILING FAN LOCATION. PROVIDE JUNCTION BOX IN CEILING, WITH COVER, AND CONDUIT TO ELECTRICAL ROOM AND SWITCHED LOCALLY.
3	MOUNT LUMINAIRES R1 INSIDE FIREPLACE MANTLE. LUMINAIRES SHALL BE INSTALLED IN PAIRS, ONE TO ILLUMINATE UP, AND OTHER DOWN. 4 PAIRS TOTAL, EQUALLY SPACES THE LENGHT OF MANTLE. COORDINATE REQUIREMENTS WITH ARCHITECTURAL.

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Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
N.M.	N.M.	D.F.

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
LIGHTING FLOOR PLAN - AREA A

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:
E-301

GENERAL NOTES - LIGHTING

1. PROVIDE COMPLETE AND FUNCTIONAL LIGHTING SYSTEM FOR THE FACILITY, INCLUDING LUMINAIRES AND LIGHTING CONTROLS. SEE LUMINAIRE SCHEDULE AND LIGHTING CONTROLS NOTES FOR REQUIREMENTS. PROVIDE ALL REQUIRED HARDWARE, MATERIALS, AND CONNECTIONS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
2. LUMINAIRES ARE SHOWN ON PLANS AS A GUIDE AND AN INTENT OF DESIGN. FINAL LUMINAIRE DESIGN AND ASSOCIATED ILLUMINATION LEVELS SHALL BE IN ACCORDANCE WITH IES RECOMMENDATIONS. PROVIDE LIGHTING CALCULATIONS FOR EACH AREA, AND VERIFY COMPLIANCE WITH CODES.
3. LIGHTING CONTROLS ARE NOT SHOWN ON FLOOR PLANS. THE INTENT IS DESCRIBED IN LIGHTING CONTROL NOTES. THE DESIGNER FOR FINAL CONSTRUCTION DOCUMENTS SHALL COORDINATE EXACT CONTROL SCHEME AND SPECIFIC CONTROL REQUIREMENTS (TIMING / OCCUPANCY / PHOTOCELL) WITH THE OWNER. ENSURE THAT ALL CONTROLS ARE IN COMPLIANCE WITH FLORIDA BUILDING CODE ENERGY CONSERVATION, AND ASHRAE 90.1.
4. EMERGENCY LIGHTING IS NOT SHOWN AT THIS TIME. THE DESIGNER FOR FINAL CONSTRUCTION DOCUMENTS SHALL DESIGNATE LUMINAIRES IN SPACES AS REQUIRED BY CODE, TO BE CONNECTED THROUGH THE LIFE SAFETY BRANCH OF EMERGENCY SYSTEM POWERED BY EMERGENCY GENERATOR.

LIGHTING CONTROLS NOTES

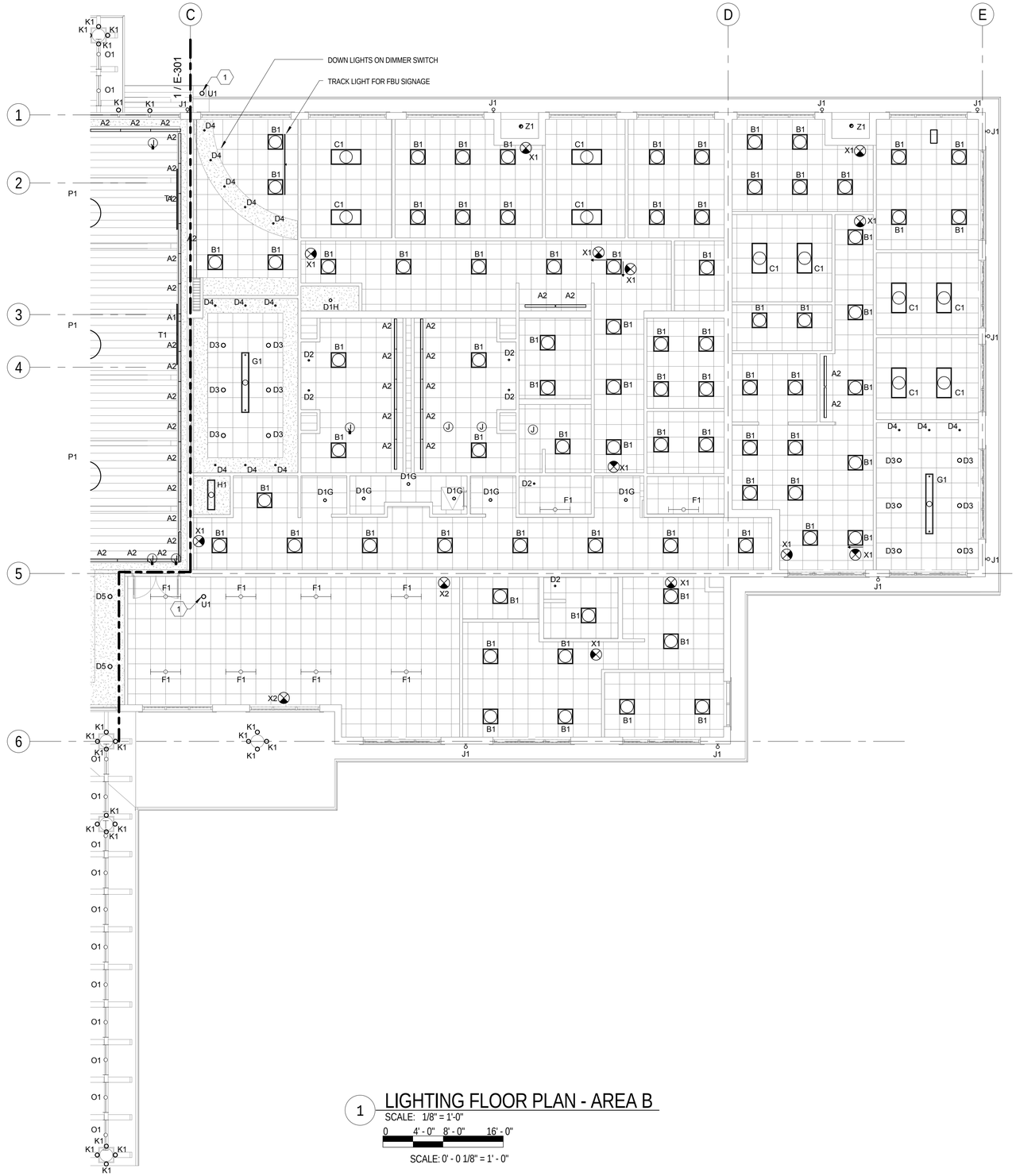
LIGHTING CONTROLS SHALL COMPLY WITH FLORIDA BUILDING CODE, ENERGY CONSERVATION CODE, AND ASHRAE 90.1
PROVIDE OPERATIONAL AND FULLY FUNCTIONING LIGHTING CONTROL SYSTEM.
LIGHTING CONTROL SYSTEM SHALL BE COMMISSIONED BY AN INDEPENDENT QUALIFIED THIRD PARTY, NOT INVOLVED IN THE FINAL DESIGN.
LIGHTING CONTROLS SHALL BE LOCAL (OCCUPANCY SENSOR AND PHOTOCELL CONTROL) AND PROGRAMMABLE (BY MEANS OF LIGHTING CONTROL PANEL).

PROVIDE LIGHTING CONTROL PANEL, INTELLIGENT LIGHTING CONTROLS, LIGHTMASTER.
ALL CORRIDORS AND COMMON PUBLIC SPACES SHALL BE TIME CONTROLLED BY LIGHTING CONTROL PANEL.
EXTERIOR LIGHTING, INCLUDING BUILDING ENVELOPE LUMINAIRES, SITE LUMINAIRES, APRON LUMINAIRES, AND LANDSCAPE LUMINAIRES SHALL BE TIME OR PHOTOCELL CONTROLLED BY LIGHTING CONTROL PANEL. COORDINATE CONTROL SCHEME AND TIMING WITH THE OWNER.

ALL OFFICES AND CONFERENCE ROOMS SHALL BE PROVIDED WITH LOCALIZED LIGHTING CONTROLS; OCCUPANCY SENSORS, PHOTOCELL, AND DIMMING LIGHTING SWITCHES. PROVIDE CONTROL DEVICES TO COMPLY WITH ASHRAE 90.1. PROVIDE ALL REQUIRED HARDWARE AND LOW VOLTAGE CONNECTIONS BETWEEN CONTROL DEVICES TO IMPLEMENT CONTROL SCHEME FOR EACH ROOM. ALL LUMINAIRES SHALL BE CONNECTED DIMMABLE, BY DIMMING SWITCH AND/OR BY LOCAL PHOTOCELL.
STORAGE ROOMS AND SUPPORT SPACES SHALL BE PROVIDED WITH LOCALIZED OCCUPANCY SENSOR CONTROLS.
TENNANT SPACES AND RESTAURANT ARE DESIGNED AS EMPTY SHELL. PROVIDE "STUMBLE" LIGHTING WITH MANUAL CONTROLS.

KEYNOTES (?)

NUMBER	NOTES
1	MOUNT LUMINAIRE IN SOFFIT AT ROOF LEVEL. PROVIDE POWER CONNECTION TO BUILDING EXTERIOR LIGHTING CIRCUIT.



1 LIGHTING FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"
0 4' - 0" 8' - 0" 16' - 0"
SCALE: 0' - 0 1/8" = 1' - 0"

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Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
N.M.	N.M.	D.F.

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

LIGHTING FLOOR PLAN - AREA B

Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

Drawing Number:

E-302

LIGHTNING PROTECTION NOTES

1. SEE LIGHTNING PROTECTION DETAILS ON SHEET E902. DETAILS MAY BE SPECIFIC TO LIGHTNING SYSTEM MANUFACTURER. SHOWN FOR INTENT.
2. TELEPHONE AND ELECTRICAL SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO ONE LIGHTNING PROTECTION GROUND OR WATER PIPE.
3. METAL BODIES OF INDUCTANCE LOCATED ABOUT THE ROOF SUCH AS METAL FLASHING, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, INSULATION VENTS, LOUVERS, AND DOOR FRAMES SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM.
4. NO BAND OF CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90° NOR SHALL HAVE RADIUS OF BEND OF LESS THAN 8".
5. CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FORM A TWO-WAY PATH FROM EACH TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
6. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3'-0" MAXIMUM SPACING.
7. GROUND RODS SHALL BE DRIVEN TO A MINIMUM DEPTH OF 10'-0" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
8. CONNECTIONS TO GROUND LOOP CONDUCTOR SHALL BE MADE AT A POINT NOT LESS THAN 18" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
9. AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY ON 20'-0" MAXIMUM SPACING AROUND ROOF PARIMETER OR RIDGE AND WITHIN 2'-0" OF OUTSIDE EDGE.
10. FOR SAKE OF CLARITY, EACH INDIVIDUAL ITEM OF LIGHTNING PROTECTION MATERIALS HAS NOT BEEN LABELED. LABELS ARE TYPICAL AND DESCRIBED IN LIGHTNING PROTECTION DETAILS ONSHEET E902.
11. BOND ALL METALLIC PIPES INCLUDING WATER, FIRE, GAS, SEWER, STORM, ETC. WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD, OR GROUND LOOP.
12. BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES, AND VICE VERSA, ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER ROOFING OR COPPER SIDING OR OTHER COPPER SURFACES.
13. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND IN WITH THE APPEARANCE OF THE BUILDING.
14. ACTUAL JOB-SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS.
15. MIDROOF AIR TERMINALS SHALL BE PLACED ON 50'-0" MAXIMUM SPACING.
16. IF REQUIRED, ANY SACRIFICIAL ROOFING PADS SHALL BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR. COORDINATE REQUIREMENTS WITH CONSTRUCTION MANAGER PRIOR TO BID.
17. ALL ADHESIVE TYPE FITTINGS SHALL BE SET IN PLACE WITH AN APPLICATION OF CHEM LINK M-1 STRUCTURAL SEALANT ON NON-BALISTED ROOFS.
18. SEAL END OF CONDUIT MOISTURE TIGHT WITH M-1 STRUCTURAL SEALANT.
19. ELECTRICAL CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH LIGHTNING PROTECTION CONTRACTOR AND PROVIDE ALL REQUIRED MATERIALS.
20. ALL REINFORCING, STRUCTURAL, FRAMING, AND MISCELLANEOUS STEEL SHALL BE MADE ELECTRICALLY CONTINUOUS THROUGHOUT CONSTRUCTION BY WELDING, CLIPPING, BOLTING, OR OTHER APPROVED METHODS.
21. THE DESIGN LAYOUT AND INSTALLATION DETAILS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF UL STANDARD 96A AND NFPA #780, CURRENT EDITION, AND RECEIVE AN LPI 175 CERTIFICATION FROM THE LPI-IP (INSPECTION PROGRAM) OR UL 96A MASTER LABEL CERTIFICATE.
22. THE LIGHTNING PROTECTION INSTALLATION SHALL COMPLY IN ALL RESPECTS TO THE LIGHTNING PROTECTION INSTITUTE STANDARD 175. THE INSTALLATION SHALL BE MADE BY OR UNDER THE SUPERVISION OF AN L.P.I. MASTER INSTALLER DESIGNER.
23. SUBMIT SHOP DRAWINGS WITH FINAL LIGHTNING PROTECTION LAYOUT, INDICATING ALL MATERIALS, DEVICES, AND CONNECTIONS USED ON PROJECT. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY PROFESSIONAL ENGINEER LICENSED IN STATE OF FLORIDA.
24. ALL DOWN CONDUCTORS SHALL BE INSTALLED IN PVC CONDUIT AND CONCEALED WITHIN WALLS. DOWN CONDUCTORS SHALL NOT BE EXPOSED. ANY EXPOSED PVC SHALL BEREPLACED WITHOUT ADDITIONAL COMPENSATION. CONTRACTOR SHALL CAREFULLY STUDYAND COORDINATE DOWN CONDUCTOR LOCATIONS TO ACCOMMODATE STRUCTURAL INTEGRITY OF BUILDING.
25. PROVIDE TEST WELL FOR ALL GROUND CONNECTIONS BELOW GRADE.
26. PROVIDE A LAYER OF ROOFING MEMBRANE AS SACRIFICIAL PAD (MIN 4" X 4") BENEATH ALL METAL DEVICES LAYING ON ROOF MEMBRANE (SPLICES, CLAMPS, TERMINAL BASES, AND CABLE FASTENERS). SACRIFICIAL PAD SHOULD BE ADHERED TO ROOF MEMBRANE IN THE SAME MANNER AS ROOFING MEMBRANE TO SUBSTRATE (HEAT WELD).
27. METAL DEVICES SHALL BE ADHERED WITH COMPATIBLE ADHESIVE/CAULK.

GENERAL NOTES - POWER MECHANICAL AND LIGHTNING PROTECTION

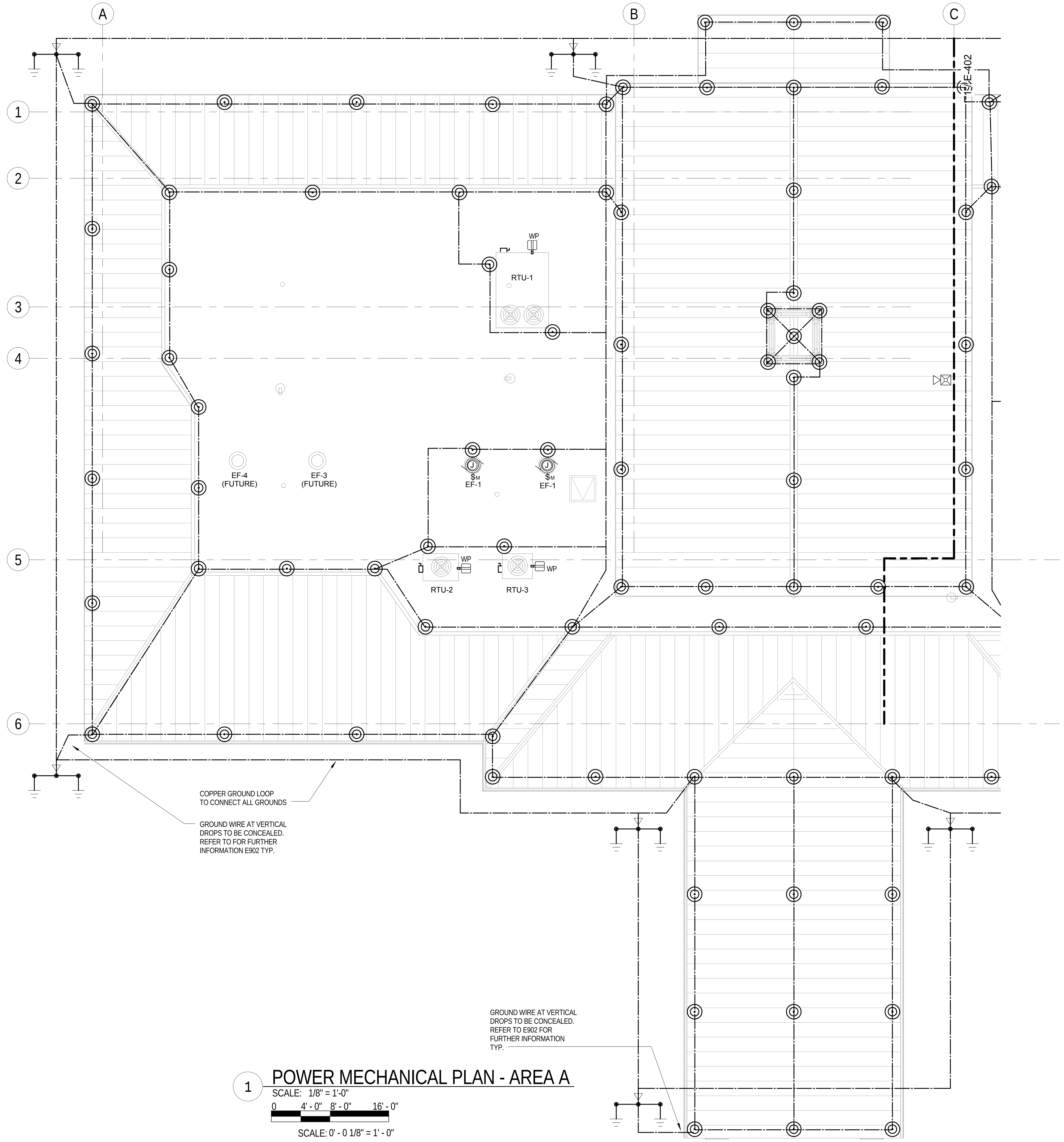
1. PROVIDE POWER CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE REQUIREMENTS WITH MECHANICAL AND PLUMBING DRAWINGS. VERIFY USE AND UTILIZE PANELBOARD SERVING THAT PARTICULAR SPACE.
2. PROVIDE LIGHTNING PROTECTION SYSTEM, FARADAY TYPE.

LIGHTNING PROTECTION - LEGEND

AIR TERMINAL. SEE DETAILS FOR REQUIREMENTS.

DOWNLEAD AND GROUNDING

COPPER CABLE, UL LISTED FOR APPLICATION



1 POWER MECHANICAL PLAN - AREA A

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

0 4' - 0" 8' - 0" 16' - 0"

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

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Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
N.M.	E.L.	R.F.W.

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
POWER MECHANICAL AND LIGHTNING - AREA A

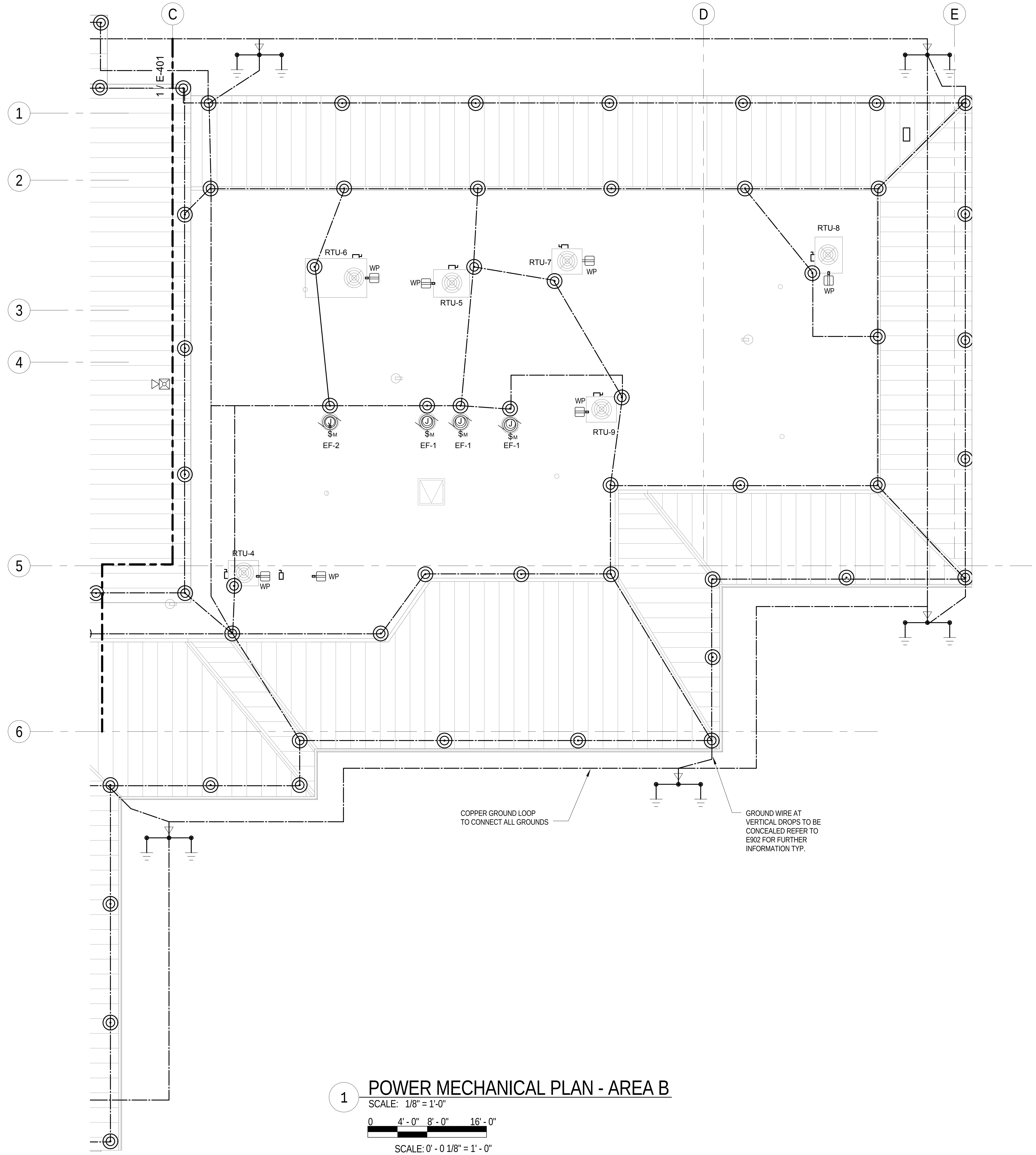
Project Number:	Division :
No. 161641	Architecture

Date:
11/15/17

Drawing Number:
E-401

GENERAL NOTES - POWER MECHANICAL AND LIGHTNING PROTECTION

SEE NOTES ON SHEET E401.



1 POWER MECHANICAL PLAN - AREA B
SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"
SCALE: 0' - 0 1/8" = 1' - 0"

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Designed by:	Drawn by:	Checked by:
N.M.	E.L.	R.F.W.

Project Name:
GENERAL AVIATION TERMINAL BUILDING

Drawing Name:
POWER MECHANICAL AND LIGHTNING - AREA B

Project Number: No. 161641
Division : Architecture
Date: 11/15/17

Drawing Number:
E-402

GENERAL NOTES

1. THE EXISTING SITE LIGHTING, INCLUDING PARKING LOT AND APRON LIGHTING ARE FED FROM THE EXISTING BUILDING TO BE DEMOLISHED. RE-CONNECT ALL EXISTING LIGHTING AND MISCELLANEOUS SITE POWER TO THE NEW BUILDING. PROVIDE TEMPORARY PANEL AND LIGHTING CONTROLS TO OPERATE THE EXISTING SITE LIGHTING AND POWER WHILE THE NEW BUILDING IS UNDER CONSTRUCTION.
2. PROVIDE TEMPORARY POWER FOR THE THREE (3) CAR RENTAL MODULARS. TEMPORARY POWER WILL INCLUDE THE EXISTING SITE LIGHTING AND MISCELLANEOUS SITE POWER AS INDICATED IN GENERAL NOTE NUMBER ONE (1). IN ADDITION, PROVIDE TEMPORARY POWER FOR CONSTRUCTION AS NEEDED FOR THE NEW BUILDING.
3. RELOCATE THE EXISTING SECURITY CAMERAS AT THE EXISTING TERMINAL TO BE DEMOLISHED TO THE TEMPORARY MODULAR BUILDINGS. PROVIDE OR RELOCATE THE SECURITY SERVER TO A MODULAR BUILDING. COORDINATE WITH THE OWNER FOR THE LOCATION AND AIMING OF THE SECURITY CAMERAS. COORDINATE WITH THE OWNER FOR THE SECURITY CAMERA DISPOSITION AFTER THE NEW TERMINAL IS COMPLETED.

SERVICE ENTRANCE FEEDER SCHEDULE

BASED ON NEC TABLE 310-16 FOR TYPE THWN COPPER CONDUCTORS

FEEDER MARK	AMPERE RATING	FEEDER (3 PHASE, 4 WIRE)	CONDUIT NO.- SIZE
1200-SE	1200	(3) SETS OF 4 #600 KCMIL	(3) 4"
1600-SE	1600	(4) SETS OF 4 #600 KCMIL	(4) 4"
2000-SE	2000	(5) SETS OF 4 #600 KCMIL	(5) 4"

SURGE PROTECTION LEGEND

PANEL TYPE	SURGE PROTECTION MFR. / MODEL NO.
MDP / SERVICE ENTRANCE PANELS	PQ PROTECTION MODEL PQS300
DISTRIBUTION PANELS	PQ PROTECTION MODEL PQM200
BRANCH / SUB PANELS	PQ PROTECTION MODEL PQM100

FEEDER SCHEDULE (COPPER)

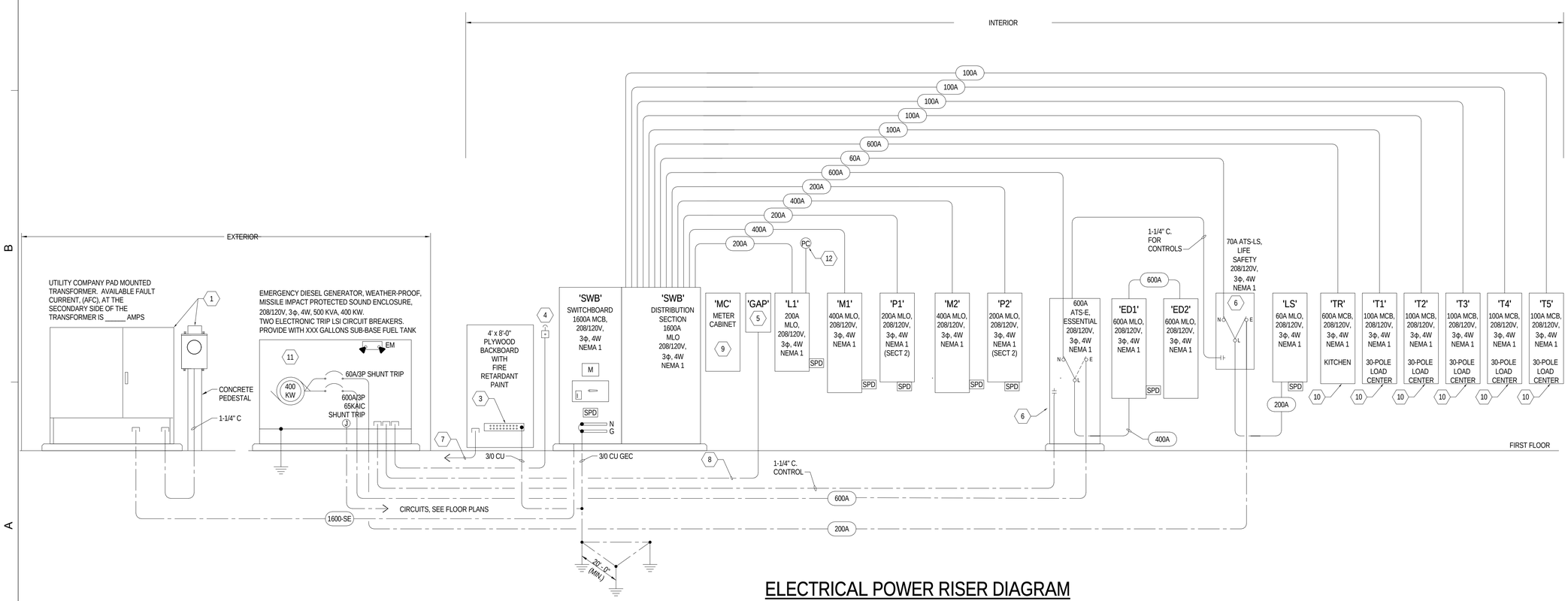
BASED ON NEC TABLE 310-16 FOR TYPE THWN COPPER CONDUCTORS

FEEDER MARK	AMPERE RATING	FEEDER (3 PHASE, 4 WIRE WITH GROUND)	CONDUIT NO.- SIZE
60A	60	4 #6 & 1 #10 EG	1"
80A	80	4 #4 & 1 #8 EG	1-1/4"
100A	100	4 #3 & 1 #8 EG	1-1/4"
125A	125	4 #1 & 1 #6 EG	1-1/2"
150A	150	4 #1/0 & 1 #6 EG	2"
175A	175	4 #2/0 & 1 #6 EG	2"
200A	200	4 #3/0 & 1 #6 EG	2"
225A	225	4 #4/0 & 1 #4 EG	2-1/2"
250A	250	4 #250 KCMIL & 1 #4 EG	2-1/2"
300A	300	4 #350 KCMIL & 1 #4 EG	3"
350A	350	4 #500 KCMIL & 1 #3 EG	3-1/2"
400A	400	(2) SETS OF 2 #3/0 & 1 #3 EG	(2) 2"
500A	500	(2) SETS OF 4 #250 KCMIL & 1 #2 EG	(2) 2-1/2"
600A	600	(2) SETS OF 4 #350 KCMIL & 1 #1 EG	(2) 3"
800A	800	(2) SETS OF 4 #600 KCMIL & 1 #1/0 EG	(2) 3-1/2"
1000A	1000	(3) SETS OF 4 #400 KCMIL & 1 #2/0 EG	(3) 3"
1200A	1200	(3) SETS OF 4 #600 KCMIL & 1 #3/0 EG	(3) 3-1/2"
1600A	1600	(4) SETS OF 4 #600 KCMIL & 1 #4/0 EG	(4) 3-1/2"

600 KCMIL AND LARGER CONDUCTORS SHALL BE PROVIDED WITH MAC ADAPTERS AS REQUIRED TO COORDINATE WITH STANDARD CIRCUIT BREAKER LUG SIZES.

KEYED NOTES (#)

1. UTILITY COMPANY PAD MOUNTED TRANSFORMER. COORDINATE INSTALLATION REQUIREMENTS WITH THE UTILITY COMPANY. PROVIDE 4" x 8" x 8'-0" LONG CONCRETE PEDESTAL, (BURIAL DEPTH 3'-6") FOR MOUNTING OF CT CAN AND CONDUIT FOR CT CABLING.
2. UTILITY COMPANY METER, COORDINATE INSTALLATION REQUIREMENTS.
3. 3" x 4'-0" LONG x 1/4" THICK COPPER GROUND BAR WITH ISOLATORS, TYPICAL.
4. EMERGENCY POWER OFF (EPO) PUSHBUTTON WITH LEXAN COVER, STI #SS2075PO-EN OR EQUIVALENT. COORDINATE FINAL LOCATION WITH FIRE MARSHAL.
5. REMOTE GENERATOR ANNUNCIATOR PANEL (GAP). COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
6. ASCO AUTOMATIC TRANSFER SWITCH (ATS) IN NEMA-1 ENCLOSURE, CATALOG #7ACTS-C-3 (AMPERES AS INDICATED)-N-14A/14B-312-23B/24B-72E.
7. (2) 4" EMPTY CONDUITS WITH PULL WIRE TO PROPERTY LINE. VERIFY REQUIREMENTS AND POINT OF TERMINATION WITH LOCAL TELEPHONE COMPANY PRIOR TO CONSTRUCTION. PROVIDE SWEEPS AND LONG EL's. ALL STUB-UPS EXPOSED AND EL's SHALL BE RIGID GALVANIZED CONDUIT.
8. TWO (2) 1" CONDUITS FOR ANNUNCIATOR CONDUCTORS.
9. PROVIDE METER CABINET FOR SUB-METERINGOF BASE BUILDING, FBO OFFICES, RESTAURANT, THREE (3) CAR RENTAL OFFICES AND AIRPORT ADMINISTRATION.
10. PANEL TO BE SUB METERED THROUGH METER CABINET.
11. ALTERNATE - NEW GENERATOR; THE CONTRACTOR SHALL INVESTIGATE THE EXISTING GENERATOR SERVING THE CONTROL TOWER TO DETERMINE IF ADDITIONAL LOAD CAN BE ADDED. PERFORM A 30 DAY LOAD RECORDING ON THE EXISTING GENERATOR LOADS. IF THE GENERATOR CAN ACCOMMODATE THE ADDITIONAL NEW LOAD PROVIDE TWO NEW CIRCUIT BREAKERS ON THE EXISTING GENERATOR AND FEED THE ATS'S AT THE NEW BUILDING WITH NEW UNDER GROUND FEEDERS.
12. EXTERIOR LIGHTING TO BE CONTROLLED PHOTOCELL "ON"/TIMECLOCK "OFF".



ELECTRICAL POWER RISER DIAGRAM

NOT TO SCALE

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Designed by:	Drawn by:	Checked by:
N.M.	N.M.	R.F.W.

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

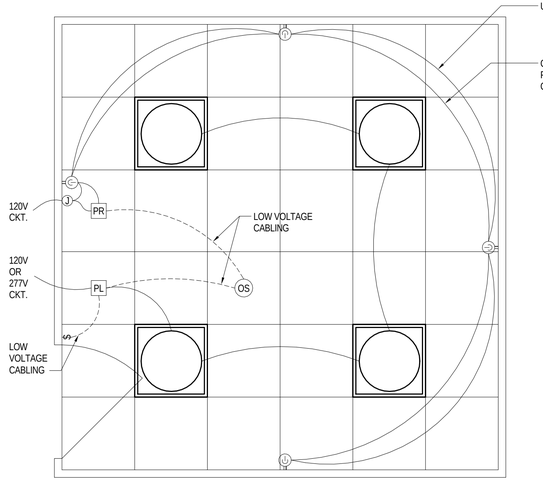
RISER DIAGRAMS - ELECTRICAL

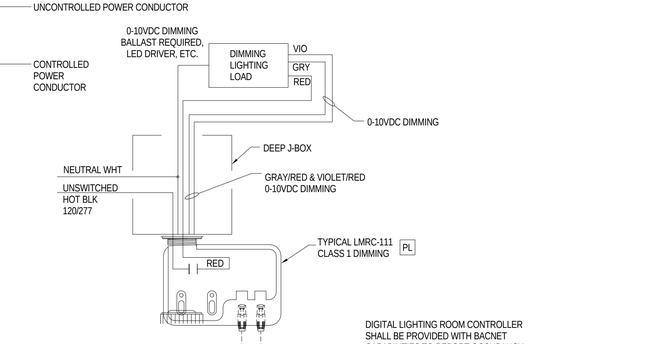
Project Number:	Division :
No. 161641	Architecture

Date: 11/15/17

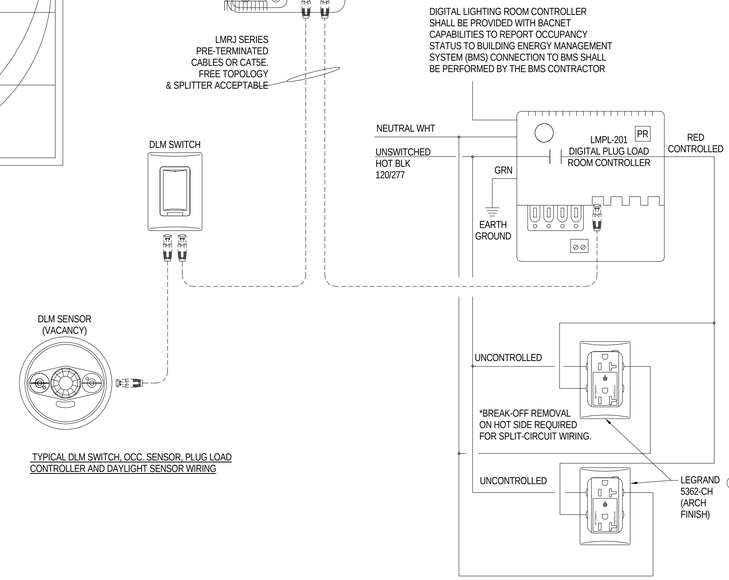
Drawing Number:

E-501





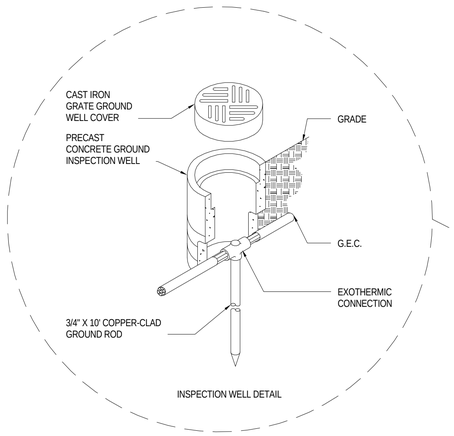
GENERAL NOTE:
1. ALL CATALOG NUMBERS ARE BASED ON WATT STOPPER CONTROLS.
2. EQUIVALENTS MAY BE SUBMITTED FOR APPROVAL.



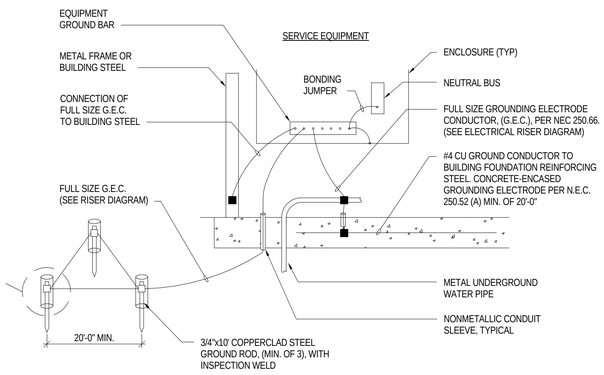
TYPICAL DLM SWITCH, OCC. SENSOR, PLUG LOAD CONTROLLER AND DAYLIGHT SENSOR WIRING

TYPICAL LMPL-201 WIRING

AUTOMATIC CONTROL DETAIL — A



INSPECTION WELL DETAIL



OBTAIN TWENTY FIVE (25) OHMS MAXIMUM RESISTANCE READ WITH AN OHM METER, USING TWO REFERENCE RODS. IF TWENTY FIVE (25) OHMS CANNOT BE ACHIEVED, CONTRACTOR SHALL PROVIDE ADDITIONAL GROUND RODS, UNTIL TWENTY FIVE (25) OHMS HAS BEEN OBTAINED.

GROUNDING ELECTRODE SYSTEM — B

Ocala International Airport

OCALA INTERNATIONAL AIRPORT
CITY OF OCALA

Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
5020 WEST LINEBAUGH AVE., SUITE 240
TAMPA, FL 33624
PHONE 813-889-3892 • FAX 813-889-3893
FLORIDA LICENSE # AA 00003054

VOLT AIR CONSULTING ENGINEERS
220 West 7th Avenue
Suite 210, Tampa, Florida 33602
Tel: 888.891.9713,
www.VoltAirInc.com
COA #27158 Proj #01.17050

Key Plan:

Design Criteria Package

November 15, 2017

REVISIONS

No.	Description	Date	By

Designed by:	Drawn by:	Checked by:
N.M.	N.M.	R.F.W.

Project Name:

GENERAL AVIATION TERMINAL BUILDING

Drawing Name:

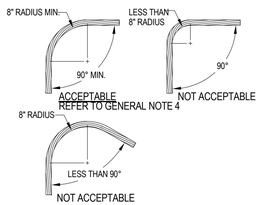
DETAILS - ELECTRICAL

Project Number:	Division :
No. 161641	Architecture

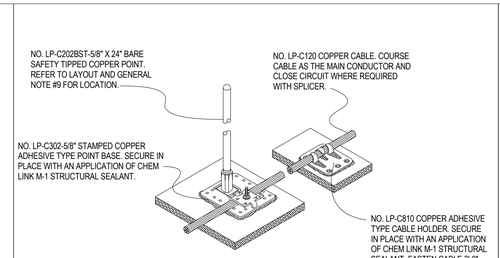
Date: 11/15/17

Drawing Number:

E-901



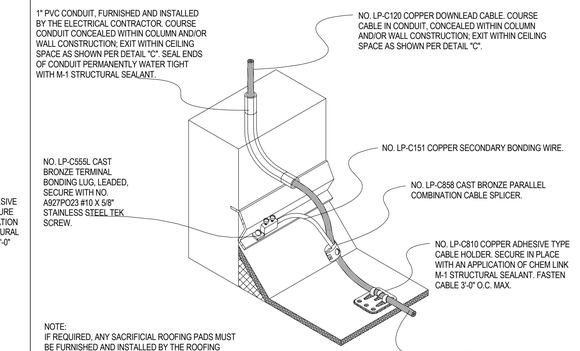
TYPICAL CABLE BEND REQUIREMENTS — F



BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM OR GALVANIZED COPING OR OTHER ALUMINUM OR GALVANIZED SURFACES AND VICE VERSA. ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER COPING OR OTHER COPPER SURFACES.

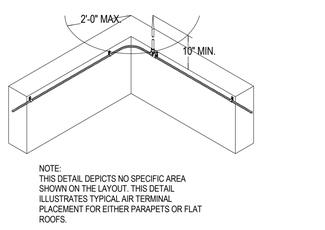
NOTE:
IF REQUIRED, ANY SACRIFICIAL ROOFING PADS MUST BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR. COORDINATE WITH GENERAL CONTRACTOR.

ADHESIVE AIR TERMINAL — D



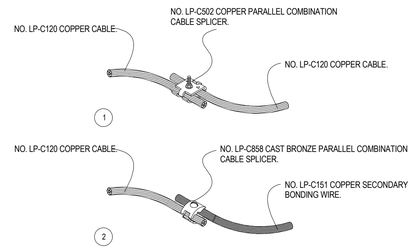
NOTE:
IF REQUIRED, ANY SACRIFICIAL ROOFING PADS MUST BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR.
COORDINATE WITH GENERAL CONTRACTOR.

CONCEALED DOWNLEAD TO LOWER ROOF — A

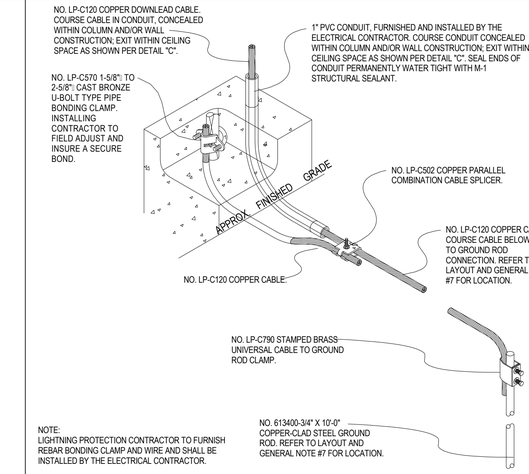


NOTE:
THIS DETAIL DEPICTS NO SPECIFIC AREA SHOWN ON THE LAYOUT. THIS DETAIL ILLUSTRATES TYPICAL AIR TERMINAL PLACEMENT FOR EITHER PARAPETS OR FLAT ROOFS.

AIR TERMINAL PLACEMENT AT OUTSIDE CORNERS — G

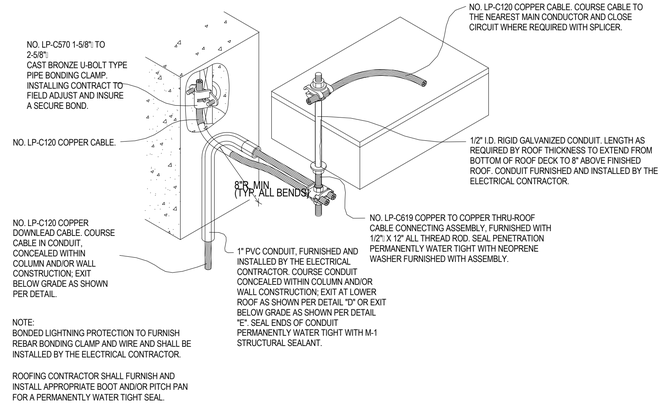


TYPICAL BOLT TYPE CABLE SPLICERS — E



NOTE:
LIGHTNING PROTECTION CONTRACTOR TO FURNISH REBAR BONDING CLAMP AND WIRE AND SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.

CONCEALED DOWNLEAD TO GROUNDING CONNECTION — B



NOTE:
BONDED LIGHTNING PROTECTION TO FURNISH REBAR BONDING CLAMP AND WIRE AND SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.

ROOFING CONTRACTOR SHALL FURNISH AND INSTALL APPROPRIATE BOOT AND/OR PITCH PAN FOR A PERMANENTLY WATER TIGHT SEAL.

THRU-ROOF CABLE CONNECTION — C

Ocala International Airport

OCALA INTERNATIONAL AIRPORT
CITY OF OCALA

Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
5020 WEST LINEBAUGH AVE., SUITE 240
TAMPA, FL 33624
PHONE 813-889-3892 • FAX 813-889-3893
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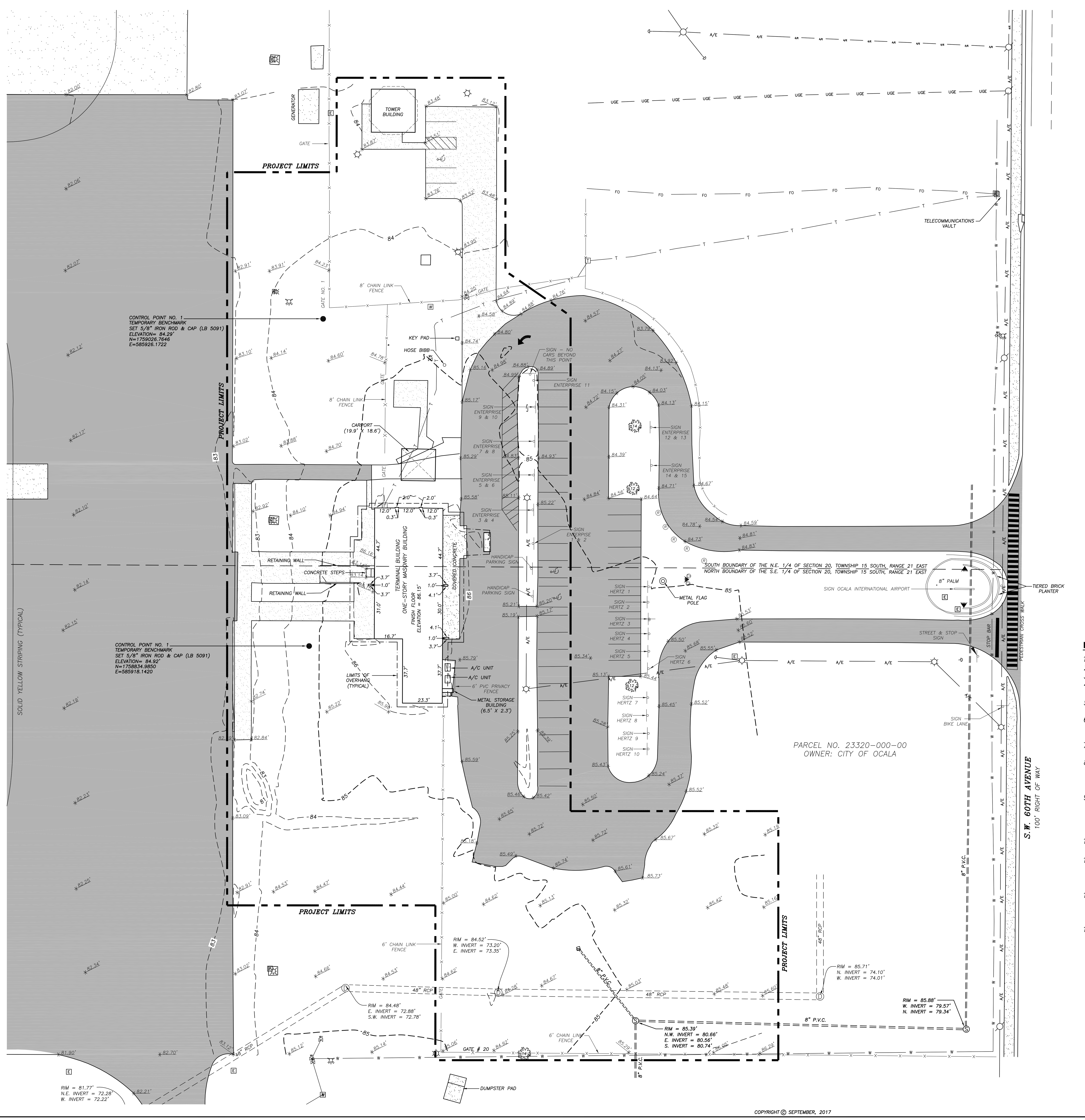
No. 161641	Architecture

Date: 11/15/17

Drawing Number:
E-902

SECTION 20, TOWNSHIP 15 SOUTH, RANGE 21 EAST
MARION COUNTY, FLORIDA



NORTH

TREE LEGEND
(SIZE DENOTED INSIDE SYMBOL)

- CAMPHOR
- CEDAR
- CHERRY
- CHINABERRY
- CRAPE MYRTLE
- CYPRESS
- DOGWOOD
- ELM
- HICKORY
- HOLLY
- MAGNOLIA
- MAPLE
- MISC
- OAK
- PALM
- PECAN
- PINE TREE
- SWEETGUM

LEGEND UNLESS OTHERWISE NOTED

℄	= CENTERLINE OF RIGHT OF WAY
F.F.E.	= FINISH FLOOR ELEVATION
O.R.	= OFFICIAL RECORDS OF MARION COUNTY
	= SPOT ELEVATION
■	= FOUND 4" x 4" CONCRETE MONUMENT
○	= FOUND 5/8" IRON ROD & CAP
⦿	= FOUND NAIL & DISK – LB 7560
(F)	= FIELD MEASUREMENT
(D)	= DEED DIMENSION
(C)	= CALCULATED DIMENSION
©	= SANITARY CLEANOUT
Ⓢ	= SANITARY MANHOLE
Ⓖ	= GREASE TRAP/MANHOLE
Ⓓ	= DRAINAGE MANHOLE
▦	= STORM DRAINAGE GRATE
(TV)	= CABLE BOX
[G]	= GAS METER
GV	= GAS VALVE
[T]	= TELEPHONE BOX
Ⓣ	= TELEPHONE MANHOLE
[E]	= ELECTRIC BOX
	= WOOD LIGHT POLE
	= WOOD POWER POLE
	= CONCRETE POWER POLE
	= CONCRETE LIGHT POLE
	= GUY ANCHOR
	= FLOOD/GROUND LIGHT
⊖	= TAXIWAY LIGHTS
[W]	= WATER METER
WV	= WATER VALVE
	= FIRE HYDRANT
Ⓕ	= FIRE DEPARTMENT CONNECTION
[I]	= IRRIGATION CONTROL BOX
Ⓦ	= 4" WELL
	= BACKFLOW PREVENTOR
	= MAILBOX
	= SIGN
Ⓡ	= METAL REFLECTOR POST
⊕	= BOLLARD
P.V.C.	= POLYVINYL CHLORIDE
R.C.P.	= REINFORCED CONCRETE PIPE
C.M.P.	= CORRUGATED METAL PIPE
— A/E —	= AERIAL ELECTRIC
— UGE —	= UNDERGROUND ELECTRIC
— FO —	= UNDERGROUND FIBER OPTIC
— T —	= UNDERGROUND TELEPHONE
— W —	= UNDERGROUND WATER
	= DENOTES CONCRETE
	= DENOTES ASPHALT

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft

NOTES:

1. DATE OF FIELD SURVEY: SE;TEMBER 7, 2017.
2. PUBLIC RECORDS NOT SEARCHED BY R.M. BARRINEAU & ASSOCIATES, INC.
3. UNLESS OTHERWISE SHOWN, UNDERGROUND IMPROVEMENTS NOT LOCATED.
4. BEARINGS ASSUMED BASED ON EAST BOUNDARY OF SECTION 20, TOWNSHIP 15 SOUTH, RANGE 21 EAST, AS BEING S.00°28'00"W.
5. ORIENTATION FOR THE IMPROVEMENTS SHOWN HEREON SHOULD NOT BE USED TO RECONSTRUCT BOUNDARY LINES.
6. ADDITIONS OR DELETIONS TO SURVEY MAPS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
7. THIS SURVEY DEPICTS THE PROPERTY AS IT EXISTED ON THE SURVEY DATE, NOT NECESSARILY THE SIGNATURE DATE.
8. THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE BENEFIT OF THE PARTY(IES) NAMED HEREON, AND SHALL NOT BE DUPLICATED OR RELIED UPON BY ANY OTHER INDIVIDUAL OR ENTITY WITHOUT AUTHORIZATION FROM R.M. BARRINEAU & ASSOCIATES, INC.
9. RIGHT OF WAY FOR S.W. 60TH AVENUE IS BASED ON RIGHT OF WAY MAP PREPARED FOR MARION COUNTY BOARD OF COUNTY COMMISSIONERS TRANSPORTATION DEPARTMENT, PREPARED BY GREENMAN–PEDERSEN, INC., PROJECT# 91740.02, RECORDED IN RIGHT OF WAY MAP BOOK 1, PAGE 45 OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA.
10. VERTICAL DATUM BASED ON CITY OF OCALA ENGINEERING DEPARTMENT CONTROL POINT 0010, ELEVATION = 79.13' NAVD–88.
11. STATE PLANE COORDINATES (FLORIDA WEST ZONE), NAD–83(CORS96) (EPOCH: 2002.0000) BASED ON TRIMBLE VIRTUAL REFERENCE NETWORK AND REFERENCED TO CITY OF OCALA ENGINEERING DEPARTMENT CONTROL POINTS COED 0010 AND COED 0011.
12. UNDERGROUND UTILITIES WERE REQUESTED TO BE MARKED THROUGH TICKET NUMBER 086504143. LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON WERE OBTAINED BY DELINEATION DONE BY OTHERS AND WERE NOT VERIFIED BY R.M. BARRINEAU AND ASSOCIATES, INC.
13. THE SPECIFIC PURPOSE OF THIS SURVEY IS TO DELINEATE IMPROVEMENTS AND TOPOGRAPHIC FEATURES WITHIN PROJECT LIMITS AREA AS DEFINED BY CLIENT.

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY THAT THE SURVEY REPRESENTED HEREON MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J–17.050–052, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES AND THAT THE SURVEY IS IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE MARION COUNTY LAND DEVELOPMENT CODE.

SIGNATURE DATE

TRAVIS@RMBARRINEAU.COM

TRAVIS P. BARRINEAU, P.S.M. – LS 6897
OF R.M. BARRINEAU & ASSOCIATES, INC.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

NO.	REVISIONS	BY	DATE

DRAWN:	K.L.J.
REVISED:	
REVISED:	
CHECKED:	T.P.B.
APPROVED:	T.P.B.
SCALE: 1" = 30'	

R.M. BARRINEAU AND ASSOCIATES
PROFESSIONAL SURVEYORS & MAPPERS
EST 1988
Oakhurst Professional Park + 1309 S.E. 25th Loop+Suite 103+Ocala, FLORIDA 34471
PHONE (352) 622-3133 + FAX (352) 369-3771 + www.rmBarrineau.com
REGINALD M. BARRINEAU, P.S.M.- FOUNDER + CERTIFICATE OF AUTHORIZATION NO. LB 5091
TRAVIS P. BARRINEAU, P.S.M. - LS 6897
MINORITY BUSINESS ENTERPRISE

TOPOGRAPHIC SURVEY FOR:
OCALA INTERNATIONAL AIRPORT

REFERENCES:
JO# 14253
F.B. 571, PGS. 2–54
F.B. 592, PGS. 50–51
F.B. 578, PGS. 36–43

FILE: 20–15–21

J.O.# 15039
DWG.# 15039ADD
SHT 1 OF 1