AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
FORT LAUDERDALE INTERNATIONAL
FT. LAUDERDALE, FL.

JANUARY 31, 2020

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

ROBERT A. BASS LICENSE No. 44228 1/31/2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

Wiley|Wilson
5901 Peachtree Dunwoody Rd.
Bldg. C, Ste 515
Atlanta, Georgia 30328-6055
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WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
GENERAL
COVER SHEET

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED CRK
DRAWN CRK
CHECKED RAB

ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER

DATE JAN 31, 2020 JCN 1508912

DRAWING NO FLL-D-TOWB-G000 REV

DRAWING NUMBER	TITLE
GENERAL	
FLL-D-TOWB-G000	COVER SHEET
FLL-D-TOWB-G001	BASE BUILDING - DRAWING INDEX
FLL-D-TOWB-G002	ATCT - DRAWING INDEX
FLL-D-TOWB-G010	ABBREVIATIONS - SHEET 1
FLL-D-TOWB-G011	ABBREVIATIONS - SHEET 2
FLL-D-TOWB-G015	SYMBOL LEGEND
FLL-D-TOWB-G040	CONSTRUCTION COORDINATION NOTES
FLL-D-TOWB-H001	HAZARDOUS MATERIALS
BASE BUILDING (TRACON)	
GENERAL	
FLL-D-TRACO-G000	COVER SHEET
DEMOLITION	
FLL-D-TRACO-D000	PLUMBING - SITE PLAN - DEMOLITION
FLL-D-TRACO-D100	ARCHITECTURAL - BASE BUILDING FLOOR PLAN DEMOLITION
FLL-D-TRACO-D140	ARCHITECTURAL - BASE BUILDING ROOF PLAN DEMOLITION
FLL-D-TRACO-D300	MECHANICAL - BASE BUILDING FLOOR PLAN - DEMOLITION
FLL-D-TRACO-D301	MECHANICAL - MECHANICAL ROOM BASE BUILDING PLAN - DEMOLITION
FLL-D-TRACO-D400	PLUMBING - BASE BUILDING FLOOR PLAN - DEMOLITION
FLL-D-TRACO-D401	PLUMBING - ENLARGED RESTROOM DEMOLITION PLAN
FLL-D-TRACO-D500	ELECTRICAL - BASE BUILDING FLOOR PLAN DEMOLITION
FLL-D-TRACO-D501	ELECTRICAL - BASE BUILDING ROOF PLAN DEMOLITION
ARCHITECTURAL	
FLL-D-TRACO-A000	LEGEND, SYMBOLS AND GENERAL NOTES
FLL-D-TRACO-A100	BASE BUILDING FLOOR PLAN
FLL-D-TRACO-A140	BASE BUILDING ROOF PLAN
FLL-D-TRACO-A400	RESTROOM DEMOLITION AND NEW WORK
FLL-D-TRACO-A401	RESTROOM ACCESSORIES
FLL-D-TRACO-A410	SCREENED-IN PORCH
FLL-D-TRACO-A500	FINISH AND COLOR SCHEDULES
FLL-D-TRACO-A505	DOOR TYPES, SCHEDULE AND DETAILS
FLL-D-TRACO-A610	ROOF DETAILS
MECHANICAL	
FLL-D-TRACO-M000	HVAC LEGEND AND GENERAL NOTES
FLL-D-TRACO-M100	BASE BUILDING FLOOR PLAN - HVAC
FLL-D-TRACO-M400	ENLARGED RESTROOM HVAC PLAN
FLL-D-TRACO-M420	ENLARGED MECHANICAL ROOM & SECTION
FLL-D-TRACO-M500	HVAC SCHEDULES
FLL-D-TRACO-M600	HVAC DETAILS
FLL-D-TRACO-M601	HVAC DETAILS
FLL-D-TRACO-M602	HVAC DETAILS
FLL-D-TRACO-M800	CONTROL SYSTEM DIAGRAM AHU-1, VAV & EXHAUST FANS
FLL-D-TRACO-M801	CONTROL SYSTEM DIAGRAM FCU-1 AND FCU-2
FLL-D-TRACO-M802	SEQUENCE OF OPERATION AND SYSTEM POINT SYSTEM
PLUMBING	
FLL-D-TRACO-P000	SYMBOLS AND GENERAL NOTES
FLL-D-TRACO-P050	PLUMBING SITE PLAN
FLL-D-TRACO-P100	BASE BUILDING FLOOR PLAN - NEW WORK
FLL-D-TRACO-P400	ENLARGED RESTROOM NEW WORK AND SCHEDULE
ELECTRICAL	
FLL-D-TRACO-E000	LEGEND AND SYMBOLS
FLL-D-TRACO-E001	GENERAL NOTES
FLL-D-TRACO-E050	ELECTRICAL SITE PLAN
FLL-D-TRACO-E060	GENERATOR BUILDING PLAN
FLL-D-TRACO-E120	BASE BUILDING POWER PLAN
FLL-D-TRACO-E160	BASE BUILDING ROOF LIGHTNING PROTECTION PLAN
FLL-D-TRACO-E500	PANEL SCHEDULES
FLL-D-TRACO-E501	PANEL SCHEDULES
FLL-D-TRACO-E502	PANEL SCHEDULES
FLL-D-TRACO-E600	DETAILS
FLL-D-TRACO-E601	DETAILS
FIRE PROTECTION	
FLL-D-TRACO-F101	BASE BUILDING AND LINK PLAN
FLL-D-TRACO-F102	GENERATOR BUILDING PLAN

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FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS

GENERAL

BASE BUILDING - DRAWING INDEX

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	CHECKED RAB	

DRAWING NUMBER	TITLE
ATCT	
GENERAL	
FLL-D-ATCT-G000	COVER SHEET
DEMOLITION	
FLL-D-ATCT-D100	ARCHITECTURAL - GROUND LEVEL AND SECOND LEVEL DEMOLITION
FLL-D-ATCT-D101	ARCHITECTURAL - CABLE ACCESS PLAN AND SUBJUNCTION LEVEL 2 DEMOLITION
FLL-D-ATCT-D102	ARCHITECTURAL - SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL DEMOLITION
FLL-D-ATCT-D103	ARCHITECTURAL - CAB FLOOR AND ROOF PLANS DEMOLITION
FLL-D-ATCT-D300	MECHANICAL - GROUND LEVEL AND SUBJUNCTION LEVEL 2 DEMOLITION
FLL-D-ATCT-D301	MECHANICAL - SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL DEMOLITION
FLL-D-ATCT-D400	PLUMBING - GROUND LEVEL PLAN - DEMOLITION
FLL-D-ATCT-D500	ELECTRICAL - GROUND LEVEL AND SUBJUNCTION LEVEL 2 DEMOLITION
FLL-D-ATCT-D501	ELECTRICAL - SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL DEMOLITION
ARCHITECTURAL	
FLL-D-ATCT-A000	LEGEND, SYMBOLS AND GENERAL NOTES
FLL-D-ATCT-A100	GROUND LEVEL AND SECOND LEVEL PLAN
FLL-D-ATCT-A101	CABLE ACCESS PLAN AND SUBJUNCTION LEVEL 2
FLL-D-ATCT-A102	SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL
FLL-D-ATCT-A103	CAB LEVEL FLOOR AND ROOF PLANS
FLL-D-ATCT-A121	CABLE ACCESS 7TH LEVEL - RCP
FLL-D-ATCT-A500	FINISH SCHEDULE AND COLOR SELECTIONS
FLL-D-ATCT-A505	DOOR TYPES, SCHEDULE AND DETAILS
FLL-D-ATCT-A610	CATWALK AND CAB ROOF DETAILS
FLL-D-ATCT-A611	CATWALK HATCH AND CAB DETAILS
MECHANICAL	
FLL-D-ATCT-M100	GROUND LEVEL AND SUBJUNCTION LEVEL 2 - HVAC
FLL-D-ATCT-M101	SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL - HVAC
FLL-D-ATCT-M500	HVAC SCHEDULES
FLL-D-ATCT-M800	CONTROL SYSTEM DIAGRAM FOR AHUs-T1/T1B, T4/T4B
FLL-D-ATCT-M801	SEQUENCE OF OPERATION AND SYSTEM POINT SYSTEM
FLL-D-ATCT-M802	CONTROL SYSTEM DIAGRAM FOR FCU-T2 AND FCU-T3
PLUMBING	
FLL-D-ATCT-P400	GROUND LEVEL PLAN - NEW WORK
ELECTRICAL	
FLL-D-ATCT-E120	GROUND LEVEL POWER PLAN - NEW WORK
FLL-D-ATCT-E121	SUBJUNCTION LEVEL 2 POWER PLAN - NEW WORK
FLL-D-ATCT-E122	SUBJUNCTION LEVEL 1 AND JUCTION LEVEL - NEW WORK
FLL-D-ATCT-E160	CAB LEVEL ROOF PLAN - LIGHNING PROTECTION
FLL-D-ATCT-E500	PANEL SCHEDULES
FLL-D-ATCT-E501	PANEL SCHEDULES
FIRE PROTECTION	
FLL-D-ATCT-F101	GROUND LEVEL AND CABLE ACCESS LEVEL 1 PLANS
FLL-D-ATCT-F102	CABLE ACCESS (TYPICAL) AND SUBJUNCTION LEVEL 2 PLANS
FLL-D-ATCT-F103	SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL PLANS
FLL-D-ATCT-F501	DETAILS

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A	
A	AMPERE
AA	AIR COOLED
AAV	AUTOMATIC AIR VENT
ABG	ABOVE FINISHED GRADE
AC	ALTERNATING CURRENT, ABOVE CEILING
A/C	AIR CONDITIONING
ACC	AIR COOLED CHILLER
ACDFC	AIR COOLED DRY FLUID COOLER
ACI	AMERICAN CONCRETE INSTITUTE
ACM	ASBESTOS CONTAINING MATERIAL
ACT	ACOUSTICAL CEILING TILE, ACCESS CONTROL TERMINAL
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFR	ABOVE FINISHED ROOF
AH	AIR HANDLER
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AIC	AMPERE INTERRUPTING CAPACITY
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AL	AIRPORT LIGHTING, ALUMINUM
AL-GL	ALUMINUM AND GLASS
ALUM	ALUMINUM
AMM	AMMETER
ANN	ANNUNCIATOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AO	ANALOG OUTPUT
AP	ANNUNCIATOR POINT, ACCESS PANEL
APD	AIR PRESSURE DROP
APPROX	APPROXIMATELY
ARCH	ARCHITECT, ARCHITECTURAL
ARTS	AUTOMATED RADAR
AS	AIR SEPARATOR
A/S	AUDIBLE STROBE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AT	AMPERE TRIP
ATBM	AIRWAY TERMINAL BUILDING MAINTENANCE FACILITY
ATC	ACOUSTICAL TILE CEILING
ATC	AIR TRAFFIC CONTROL
ATCT	AIRPORT TRAFFIC CONTROL TOWER
ATS	AUTOMATIC TRANSFER SWITCH
ATV	ATMOSPHERIC VENT
AUX	AUXILIARY
AV	AUTOMATIC VENT
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
AWS	AMERICAN WELDING SOCIETY
B	
BAT CHGR	BATTERY CHARGER
BBHWH	BASEBOARD HOT WATER HEATER
BC	BARE COPPER
BCKP	BACKUP
BDD	BACKDRAFT DAMPER
BF	BELOW FLOOR (PIPE SIZE)
BFC	BELOW FINISHED CEILING
BFP	BACKFLOW PREVENTER
BI	BACKWARD INCLINED
BITS	BYPASS ISOLATION TRANSFER SWITCH
BLDG	BUILDING
BLK	BLACK
BOD	BOTTOM OF DUCT, BACKDRAFT DAMPER
BOF	BOTTOM OF FIXTURE
BOP	BOTTOM OF PIPING
BOT	BOTTOM
BP	BOOSTER PUMP
BPU	BREAKER PROGRAMMING UNIT
BSDC	BARE SOFT DRAWN COPPER
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT/HOUR
C	
C	CONDUIT
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CB	CIRCUIT BREAKER
CBCR	CURVED BLADE CEILING REG.
CCTV	CLOSED CIRCUIT TELEVISION
CD	CEILING DIFFUSER, CONDENSATE DRAIN
CENT	CENTRIFUGAL
CENTRIF	CENTRIFUGAL
CAF	COMBUSTION AIR FAN
CF	CUBIC FOOT/FEET
CFACC	CENTRIFUGAL FAN AIR COOLED CONDENSER
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHKD	CHECKERED
CHW	CHILLED WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CHILLED WATER PUMP
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
C.I.P.	CAST IN PLACE
CKT	CIRCUIT
CL	CENTERLINE
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CLR	CLEAR
CM	COMMUNICATION MANHOLE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT, CONDUIT ONLY
COL	COLUMN
COMM	COMMUNICATIONS
CONC	CONCRETE
COND	CONDENSATE
CONFIG	CONFIGURATION
CONN	CONNECTION
CONT	CONTINUATION
CONTR	CONTRACTOR
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CPC	CRITICAL POWER CENTER
CPT	CARPET
CPU	CENTRAL PROCESSING UNIT
CR	CONTROL RELAY
CS	CONTROL SWITCH
CSF	CHEMICAL SHOT FEEDER
CT	COOLING TOWER, CABLE TRAY, CURRENT TRANSFORMER, CERAMIC TILE
CTL	CONTROL
CU	CONDENSING UNIT, COPPER
CU FT	CUBIC FOOT/FEET
CV	CONSTANT VOLUME, CONTROL VALVE
CVC	CENTRAL VACUUM CLEANER
CW	COLD (DOMESTIC) WATER
CWP	CONDENSER WATER PUMP, CHILLED WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWV	COMBINATION WASTE AND VENT
CY YD	CUBIC YARD
D	
D	DRAIN
DAMP	DAMPER
DB	DRY BULB, DIRECT BURIAL, DUCTBANK
DBL	DOUBLE
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DEMO	DEMOLITION
DET	DETAIL
DG	DOOR GRILLE
DHW	DOMESTIC HOT WATER
DI	DIGITAL INPUT
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DF	DEGREES FAHRENHEIT
DM	DEMAND METER
DN	DOWN
DO	DIGITAL OUTPUT
DP	DIFFERENTIAL PRESSURE
DPDT	DOUBLE POLE DOUBLE THROW
D PNL	DISTRIBUTION PANEL
DPST	DOUBLE POLE SINGLE THROW
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DSF	DESTRATIFICATION FAN
DT	DOUBLE THROW, DIAPHRAM TANK
DTS	DOUBLE THROW SWITCH
DWBP	DOMESTIC WATER BOOSTER PUMP
DWDI	DOUBLE WIDTH DOUBLE INLET
DWGS	DRAWINGS
DWL	DOWEL
E	
E	EAST
EA	EACH, EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECP	ENGINE CONTROL PANEL
EDAM	ELECTRICAL DATA ACQUISITION AND MONITORING
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EG, E/G	ENGINE GENERATOR, EXHAUST GRILLE EMERGENCY GENERATOR
EH	ELECTRIC HEATER, ELECTRONIC HUMIDIFIER
EHC	ELECTRIC HEATING COIL
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELEC	ELECTRIC
ELEV, EL	ELEVATION, ELEVATOR
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM
EMERG	EMERGENCY
EMI	ELECTROMAGNETIC INTERFACE
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENT	ENTERING
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
ERMS	ENVIRONMENTAL REMOTE MONITORING SYSTEM
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EW	EACH WAY
EWC	ELECTRICAL WATER COOLER
EWH	ELECTRIC WALL HEATER, ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED, EXPANSION
F	
F	FIRE WATER SUPPLY
°F	DEGREES FAHRENHEIT
FA	FIRE ALARM, FREE AREA, FAN COOLED, FRESH AIR
FAA	FEDERAL AVIATION ADMINISTRATION
FACP	FIRE ALARM CONTROL PANEL
FACT	FACTORY
FC	FACE OF CURB, FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FDR	FEEDER
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FLY FAN
FFE	FINISHED FLOOR ELEVATION
FG	FIBERGLASS
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
FIG	FIGURE
FIN	FINISH
FLA	FULL LOAD AMPERES
FLR	FLOOR
FLEX	FLEXIBLE
FLS	FLOW SWITCH, FIRE AND LIFE SAFETY
FLUOR	FLUORESCENT
FM	FACTORY MUTUAL, FORCE MAIN
FO	FIBER OPTIC
FOD	FACE OPERATED DAMPER
FOG	FUEL OIL GAGE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOT	FIBER OPTIC TERMINAL, FUEL OIL TRANSFER
FP	FIRE PUMP
FPM	FEET PER MINUTE
FPU	FIELD PROGRAMMING UNIT
FS	FLOW SWITCH, FLOOR SINK
FSD	FIRE/SMOKE DAMPER
FSS	FUSIBLE SAFETY SWITCH
FT	FEET
FTG	FOOTING, FITTING
FV	FULL VOLTAGE
FVC	FIRE VALVE CABINET
FW	FIRE WATER
FWS	FIRE WATER SUPPLY
FWD	FORWARD, FIRE SPRINKLER WATER DRAIN
G	
G	GROUND
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GEN	GENERAL, GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFE	GOVERNMENT FURNISHED EQUIPMENT
GFM	GOVERNMENT FURNISHED MATERIAL
GND	GROUND CONNECTOR
GOVT	GOVERNMENT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRN	GREEN
GRS	GALVANIZED RIGID STEEL
GUH	GAS FIRED UNIT HEATER
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
H	
HAZMAT	HAZARDOUS MATERIALS
HB	HOSE BIBB
HEX	HEXAGONAL
HH	HAND HOLE
HM	HOLLOW METAL
H. MET.	HOLLOW METAL
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HS	HIGH STRENGTH
HSB	HIGH STRENGTH BOLT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HU	HUMIDIFIER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWUH	HOT WATER UNIT HEATER
HX	HEAT EXCHANGER
HZ	HERTZ
I	
IC	INTERCOMMUNICATION, INTERCOM
IE	INVERT ELEVATION
IN	INCHES
INCAND	INCANDESCENT
INCL	INCLUDE
INDIC	INDICATOR
INSUL	INSULATED
INT	INTERIOR
INV	INVERT
ISMS	INTEGRATED SECURITY MANAGEMENT SYSTEM
J	
JB	JUNCTION BOX
JP	JOCKEY PUMP
JT	JOINT
K	
KA	KILOAMPERES
KCMIL	THOUSAND CIRCULAR MILLS
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KVAR	KILOVOLT AMPERES-REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
L	
L&S	LOUVER AND SCREEN
LAT	LEAVING AIR TEMPERATURE
LBD	LINEAR BAR DIFFUSER
LBG	LINEAR BAR GRILLE
LBR	LINEAR BAR RETURN
LBS	POUNDS
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LFS	LIGHTING FIXTURE SCHEDULE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LOSP	LOCAL OPERATING STATUS PANEL
LP	LOW POINT
LRA	LOCKED ROTOR AMPERE
LRAG	LINEAR RETURN AIR GRILLE
LRG	LINEAR RETURN GRILLE
LS	LIGHT STANDARD
LSD	LINEAR SLOT DIFFUSER
LT	LIQUID TIGHT
LTG	LIGHTING
LV	LOW VOLTAGE
LVL	LEVEL
LWT	LEAVING WATER TEMPERATURE
M	
MAG	MAGNETIC DOOR HOLD OPEN
MAINT	MAINTENANCE
MAX	MAXIMUM
MBH	THOUSAND BTU/HOUR
MBP	MAINTENANCE BYPASS PANEL
MCB	MOLDED CASE BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILLS
MCP	MOTOR CIRCUIT PROTECTOR
MD	MANUAL DAMPER
MDF	MEDIUM DENSITY FIBERBOARD
MDT	MAIN DISTRIBUTION TERMINAL
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MH	MANHOLE
MIL	THOUSANDTHS OF AN INCH
MIL ST	MILITARY STANDARD
MIN	MINIMAL, MINUTE, MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MM	MILLIMETER
MOD	MOTOR OPERATED DAMPER
MPG	MULTI-POINT GROUND
MTD	MOUNTED
MTL	METAL
MUA	MAKE-UP AIR
MUW	MAKE-UP WATER
MV	MANUAL VENT
MVA	MEGAVOLT AMPERE
MVD	MANUAL VOLUME DAMPER

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N	
N	NORTH, NEUTRAL
NA	NOT APPLICABLE
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEG	NEGATIVE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION
NFHB	NON-FREEZE HOSE BIB
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NK	NECK
NO	NUMBER OF DESIGNATION
N.O.	NORMALLY OPEN
NOM	NOMINAL
NTE	NOT TO EXCEED
NTS	NOT TO SCALE
O	
OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
ODP	OPEN DRIP PROOF
OE	OPEN END
OH	OPPOSITE HAND, OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW ROOF LEADER
OSA	OUTSIDE SUPPLY AIR
OSCO	OUTSIDE CLEANOUT
OVHD	OVERHEAD
OZ	OUNCES
P	
P	POLE, PAINT, PUMP
PABX	PRIVATE AUTOMATIC BRANCH EXCHANGE
PART	PARTITION
PB	PULL BOX
PCF	POUNDS PER CUBIC FOOT
PCHWR	PRIMARY CHILLED WATER RETURN
PCHWS	PRIMARY CHILLED WATER SUPPLY
PCMS	POWER CONTROL MONITORING SYSTEM
PCS	POWER CONDITIONING SYSTEM
PD	PRESSURE DROP
PF	POWER FACTOR
PFD	PERFORATED FACE DIFFUSER
PFR	PERFORATED FACE RETURN
PH	ELECTRICAL PHASE
PI	PRESSURE INDICATOR
PIU	POWER INDUCTION UNIT
PL	PLATE
PLBG	PLUMBING
PLCS	PLACES
PLYWD	PLYWOOD
PM	POWER MANHOLE
PMB	POWER MIXING BOX
PNL	PANEL, PANELBOARD
P.O.C.	POINT OF CONNECTION
POS	POSITIVE, POSITION
PP	POWER POLE, PATCH PANEL
PREFAB	PREFABRICATED
PRESS	PRESSURE
PRMY	PRIMARY
PRSR	PRESSURIZATION
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSF	POUNDS PER SQ. FOOT
PSI	POUNDS PER SQ. INCH
PSIA	POUNDS PER SQ.IN. ABSOLUTE
PSIG	POUNDS PER SQ.IN. GAUGE
PT	PRESSURE TRANSMITTER, PRESSURE-TEMPERATURE PORT
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PVC	POLYVINYL CHLORIDE, POINT OF VERTICAL CURVATURE
PVMT	PAVEMENT
Q	
QUA	QUARTER
R	
R	RED, RISER, RADIATOR, RADIUS, REFRIGERANT
RA	RETURN AIR, REMOTE ANNUNCIATOR
RACP	REMOTE ACCESS CONTROL PANEL
RAD	RADIUS
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
RB	RUBBER BASE
RCP	REINFORCED CONCRETE PIPE, REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDF	RUBBER RAISED DISK FLOOR
RE	RESIDENT ENGINEER
REBAR	REINFORCING STEEL BAR
REC	RECEPTACLE
REC'D	RECEIVED
RECP	RECEPTACLE
RECT	RECTIFIER, RECEPTACLE
REF	REFERENCE
REG	REGISTER
REINF	REINFORCEMENT, REINFORCED
REQ'D	REQUIRED
RET	RETURN
REV	REVISION
RF	RETURN FAN
RFI	RADIO FREQUENCY INTERFERENCE
RG	RETURN GRILLE
RGS	RIGID GALVANIZED STEEL
RL	RAIN LEADER
RM	ROOM
RMH	ROOF MOUNTED HOOD
RML	RADAR MICROWAVE LINK
RMS	ROOT MEAN SQUARE
RO	REVERSE OSMOSIS
RP BP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	ROTATIONS PER MINUTE, REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RQMTS	REQUIREMENTS
RTN	RETURN
RTU	ROOF TOP UNIT
RV	RELIEF VALVE
S	
S	SOUTH, STAIN COLOR, SANITARY
SA	SUPPLY AIR
SAN	SANITARY
SC	SPIN IN COLLAR WITH VOLUME DAMPER, SENSIBLE COOLING
S.C.	SOLID CORE
SCC	SECURITY CONTROL CENTER
SCHED	SCHEDULE
SCHWP	SECONDARY CHILLED WATER PUMP
SCHWR	SECONDARY CHILLED WATER RETURN
SCHWS	SECONDARY CHILLED WATER SUPPLY
SCND	SECONDARY
SCP	SYSTEM CONTROL PANEL, SMOKE CONTROL PANEL
SD	SPLITTER DAMPER STORM DRAIN, SMOKE DETECTOR
S.D.	SUPPLY DIFFUSER
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SG	SUPPLY GRILLE
SGL	SINGLE
SHDWN	SHUT DOWN
SHLD	SHIELDED
SHT	SHEET
SIM	SIMILAR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
SOV	SHUT-OFF VALVE
SP	STATIC PRESSURE(IN W.G.), SINGLE POLE, SUMP PUMP
SPEC	SPECIFICATION
SPF	STAIRWELL PRESSURIZATION FAN
SPST	SINGLE POLE SINGLE THROW
SPT	STATIC PRESSURE TRANSMITTER
SPVR	SUPERVISORY CONDITION
SQ	SQUARE
SQ.FT.	SQUARE FOOT/FEET
SR	SUPPLY REGISTER
SRG	SIGNAL REFERENCE GRID
SS	STAINLESS STEEL
S/S	START-STOP
ST	SHUNT TRIP
STD	STANDARD
STGP	SIGNAL TRANSPORT GROUND PLANE
STL	STEEL
STP	SHIELDED TWISTED PAIR
STRUCT	STRUCTURAL
SUBJ	SUBJUNCTION
SUSP	SUSPENDED
SW	SWITCH
SWBD	SWITCHBOARD
SWG	SIDEWALL GRILLE
SWGR	SWITCHGEAR
SWR	SIDEWALL REGISTER
SWSI	SINGLE WIDTH SINGLE INLET
SWSR	SIDE WALL SUPPLY REGISTER
SYM	SYMMETRICAL
SYS	SYSTEM
T	
T	TRANSDUCER
T&B	TOP AND BOTTOM
T&P	TEMPERATURE AND PRESSURE
TB	TERMINAL BOX, TERMINAL BOARD
TC	TRIP COIL, TOTAL COOLING, TIME CLOCK
TD	TIME DELAY, TRENCH DRAIN
TEF	TOILET EXHAUST FAN
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY
TEMP	TEMPERATURE
TERM	TERMINAL
TG	TRANSFER GRILLE
THK	THICK, THICKNESS
TOC	TOP OF CONCRETE
TOD	TOP OF DUCT
TOS,T/S	TOP OF STEEL
TOWB	ATCT AND ATTACHED BASE BUILDING
TP	TRAP PRIMER, TWISTER PAIR
TRBL	TROUBLE CONDITION
TRACO	TERMINAL RADAR APPROACH CONTROL BUILDING
TS	TWO SPEED
TSP	TOTAL STATIC PRESSURE, TRAP SEAL PRIMER
T°STAT	THERMOSTAT
TT	TEMPERATURE TRANSMITTER
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION, TEMPERING VALVE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR (GFM)
TYP	TYPICAL
TW	TEMPERED WATER
U	
UBC	UNIFORM BUILDING CODE
UC	UNDERCUT
UG	UNDERGROUND
UGP	UNDERGROUND POWER
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UNF	UNFUSED
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UPC	UNIFORM PLUMBING CODE
UPS,U	UNINTERUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	
V	VOLT, VOLTAGE, VENT
VA	VOLT AMPERE, VOICE ALARM
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VCT	VINYL COMPOSITE TILE
VD	VOLUME DAMPER - MANUAL
VDT	VIDEO DISPLAY TERMINAL
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
VPF	VESTIBLE PRESSURIZATION FAN
VTR	VENT THROUGH ROOF
W	
W	WEST, WIDTH, WATT
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN, WATER CLOSET, WALL COVERING
WCO	WALL CLEANOUT
WG	WATER GAUGE
WH	WATER HEATER, WALL HEATER, WALL HYDRANT
WHA	WATER HAMMER ARRESTER
WM	WATT METER
WMS	WIRE MESH SCREEN
WP	SUBSCRIPT "WP" APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF NEMA TYPE 3R OR EQUIVALENT, UON
WPD	WATER PRESSURE DROP
WSW	WASHDOWN SUPPLY WATER
WT	WATER TANK
WTR	WATER
WWF	WELDED WIRE FABRIC
X	
X	AUXILIARY RELAY
XFR	TRANSFER
XFMR	TRANSFORMER
XMTR	TRANSMITTER
XDCR	TRANSDUCER
Y	
Y	WYE
Y-Δ	WYE DELTA
Z	
Z	IMPEDANCE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

ROBERT A. BASS LICENSE No: 44228 1/31/2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

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WW JOB NUMBER: 219075.00

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

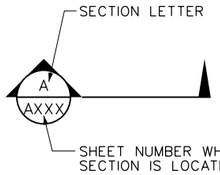
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
GENERAL
ABBREVIATIONS - SHEET 2

FT LAUDERDALE (INTERNATIONAL) FL

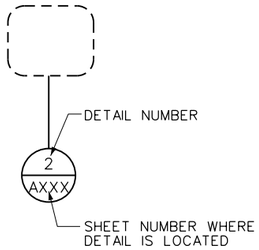
REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
	DESIGNED GMR	ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
	DRAWN CRK	DATE JAN 31, 2020 JCN 1508912
	CHECKED RAB	DRAWING NO FLL-D-TOWB-G011 REV

GENERAL SYMBOL LEGEND:

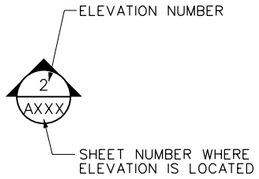
SECTION CUT



DETAIL



ELEVATION

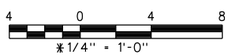


DETAIL TITLE

TITLE OF PLAN, SECTION OR DETAIL

* SCALE OR OTHER INFORMATION

ARCHITECTURAL GRAPHIC SCALE



* THIS SCALE REFERS TO FULL SIZE DRAWING (22" X 34" DRAWING SHEET SIZE) AND IS USED FOR SCALING AT FULL SIZE AND FOR USING THE APPROPRIATE BAR SCALE WHEN THE SHEET IS REDUCED IN SIZE.

ENGINEERING GRAPHIC SCALE

(B-5) ROOM TAG

(X-1) DOOR TAG

GENERAL NOTES

1. FOR ALL ABBREVIATIONS REFERENCE DRAWINGS G010 & G011.
2. DO NOT SCALE DRAWINGS.
3. VERIFY FIELD CONDITIONS PRIOR TO COMMENCING EACH PORTION OF THE WORK.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

ROBERT A. BASS LICENSE No: 44228 STATE OF FLORIDA PROFESSIONAL ENGINEER 1/31/2020

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WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
GENERAL
SYMBOL LEGEND

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED	CRK	ISSUED BY	DATE JAN 31, 2020	JCN 1508912
DRAWN	CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO FLL-D-ATCT-G015	REV
CHECKED	RAB			

DESIGN CRITERIA AND REFERENCES

- INTERNATIONAL BUILDING CODE (IBC), 2015.
- INTERNATIONAL FIRE CODE (IFC), 2015.
- INTERNATIONAL MECHANICAL CODE (IMC), 2015.
- INTERNATIONAL PLUMBING CODE (IPC), 2015.
- NATIONAL ELECTRICAL CODE (NEC), 2017.
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016.
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 20, STANDARD FOR THE INSTALLATION STATIONARY PUMPS FOR FIRE PROTECTION, 2016.
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70, NATIONAL ELECTRICAL CODE, 2017.
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72, NATIONAL FIE ALARM AND SIGNALING CODE, 2016.
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 75, STANDARD FOR THE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT, 2013.
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATION SYSTEMS, 2015.
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 92, STANDARD FOR SMOKE CONTROL SYSTEMS, 2015.
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 101, LIFE SAFETY CODE, 2015
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 110, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, 2016
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780, STANDARD FOR THE INSTALLATION OF LIGHT PROTECTION SYSTEMS, 2015.
- APPLICABLE FAA ORDERS AND STANDARDS.

CONSTRUCTION NOTES

1. FAA WILL COORDINATE PHASING PLAN WITH FACILITY TO MINIMIZE THE DISRUPTION OF OPERATIONS. THE CONTRACTOR SHALL USE THIS PHASING PLAN AND PROVIDE A COMPLETE AND COMPREHENSIVE SCHEDULE TO THE CONTRACTING OFFICERS REPRESENTATIVE FOR REVIEW AND APPROVAL BEFORE A NOTICE TO PROCEED IS ISSUED. SCHEDULE SHALL OUTLINE ALL PHASES OF THE WORK AND THEIR IMPACT ON THE OPERATION OF THE FACILITY.
2. SIGNIFICANT AMOUNTS OF WORK MUST BE COMPLETED AFTER NORMAL OPERATING HOURS.
3. CONSTRUCTION NOISE, DUST AND DEBRIS MUST NOT INTERFERE WITH OPERATION OF ATCT FACILITY. MAINTAIN HEPA FILTRATION OF CONSTRUCTION AREA DURING ALL GENERAL CONSTRUCTION SEQUENCES.
4. THE CONSTRUCTION OF THIS PROJECT MUST NOT INTERFERE WITH OPERATION OF THE AIR TRAFFIC CONTROL FUNCTION OR ACCESS AND EGRESS TO THE FACILITY DURING NORMAL OPERATING HOURS. ALL WORK NEEDS TO BE COORDINATED WITH FAA CONTRACTING OFFICERS REPRESENTATIVE TO AVOID DISRUPTION TO THE NORMAL OPERATIONS OF THE FACILITY. NORMAL HOURS OF OPERATION ARE STATED IN DIVISION 1 OF THE SPECIFICATIONS.
5. LOCKOUT AND TAG PROCEDURES MUST BE FOLLOWED AT ALL TIMES.
6. IF NECESSARY ALL ELECTRONIC EQUIPMENT CIRCUITS SHALL BE RELOCATED BY THE FAA. ALL OTHER BUILDING SYSTEMS CIRCUITS SHALL BE RELOCATED BY THE CONTRACTOR. COORDINATE WITH CONTRACTING OFFICERS REPRESENTATIVE.
7. CONTRACTOR SHALL USE VERY LOW VOC PAINTS AND COATINGS AND PROVIDE ADEQUATE MEASURES FOR VENTILATION TO MINIMIZE ODORS DURING PAINTING, CURING OF FRP RESINS AND OTHER CONSTRUCTION ACTIVITIES THAT HAVE THE POTENTIAL FOR STRONG ODORS. THE CONTRACTING OFFICERS REPRESENTATIVE SHALL APPROVE THE SYSTEM TO BE UTILIZED FOR VENTILATION PRIOR TO USE.
8. DO NOT PAINT OVER ANY FIRE DOOR LABEL.
9. REINSTALL ALL SMOKE/FIRE DETECTORS AS REQUIRED.
10. ALL INTERIOR DIMENSIONS ARE FROM THE FACE OF STUD OF MASONRY STRUCTURE, UNLESS OTHERWISE NOTED.
11. ALL EXTERIOR DIMENSIONS ARE FROM THE EXTERIOR FACE OF WALL.
12. MANUFACTURED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
13. IF AN UNSAFE CONDITION OR LIFE THREATENING HAZARD IS NOTED AT THE SITE, NOTIFY THE FAA CONTRACTING OFFICERS REPRESENTATIVE IMMEDIATELY.
14. ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS , OR ANY AMBIGUITIES OR INCONSISTENCIES CONTAIN THEREIN, SHALL BE REPORTED TO THE FAA CONTRACTING OFFICERS REPRESENTATIVE (COR) IMMEDIATELY, AND SUITABLE RESOLUTION ESTABLISHED PRIOR TO THE BEGGINING OF THE AFFECTED WORK. WORK THAT PROCEEDS IN VIOLATION OF THIS PRINCIPLE IS AT THE CONTRACTOR'S OWN RISK, AND THE COST OF ANY CHANGES REQUIRED BY THE CLIENT TO SUITABLY MODIFY SUCH WORK SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
15. THESE DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS. IF THERE ARE DIMENSIONS DISCREPANCIES OR CONCERNS, CONTACT THE FAA COR TO CLARIFY.

DEMOLITION NOTES

1. FACILITY TO BE PROTECTED DURING CONSTRUCTION AND FROM DAMAGE TO ANY EXISTING OR ADJACENT FINISHES, MATERIALS, FIXTURES OR BUILDING ASSEMBLIES. REPAIR ALL AREAS AFFECTED BY THE CONSTRUCTION TO MAINTAIN THEIR EXISTING APPEARANCE, UNLESS NOTED OTHERWISE.
2. STRUCTURAL INTEGRITY SHALL BE MAINTAINED FOR ALL BUILDING ELEMENTS DURING AND AFTER DEMOLITION.
3. IF A PORTION OF AN EXISTING WALL IS DEMOLISHED OR PATCHED, THE ENTIRE WALL OR CEILING SHALL BE PAINTED AFTER NEW CONSTRUCTION IS COMPLETED.

CONSTRUCTION STAGING NOTES

THE FOLLOWING NOTES REPRESENT MANY OF THE MAJOR REQUIREMENTS STATED IN "DIVISION 1 - GENERAL REQUIREMENTS" OF THE SPECIFICATIONS. THESE NOTES PARAPHRASE OR SUPPLEMENT DIVISION 1 REQUIREMENTS AND ARE NOT INTENDED TO REPLACE DIVISION 1 REQUIREMENTS.

CONSTRUCTION ACCESS (VEHICLE, PEDESTRIAN AND DELIVERIES), CONTRACTOR'S PARKING, CONSTRUCTION OFFICES AND THE EXTENT/SIZE OF THE CONSTRUCTION STAGING AREA MUST BE COORDINATED WITH SITE PERSONNEL VIA THE FAA CONTRACTING OFFICERS REPRESENTATIVE.

A. CONSTRUCTION ACCESS

1. DELIVERIES SHALL BE SCHEDULED 48 HOURS IN ADVANCE WITH THE FAA CONTRACTING OFFICERS REPRESENTATIVE AND AT TIMES OTHER THAN THE FAA EMPLOYEE SHIFT CHANGES TO AVOID CONGESTION.

B. CONTRACTOR STAGING AREA AND PARKING

1. CONTRACTOR'S STAGING AND PERSONNEL PARKING IS LIMITED AND SHALL BE DETERMINED AT THE PRECONSTRUCTION CONFERENCE. CONTRACTOR SHALL PROVIDE SIGNS AS NECESSARY TO RESERVE AN AREA FOR CONSTRUCTION PARKING ONLY.

C. FAA SECURITY REQUIREMENTS

1. AN ADVANCE LIST OF THE CONTRACTOR'S PERSONNEL SHALL BE PROVIDED TO THE FAA CONTRACTING OFFICERS REPRESENTATIVE. CONTRACTOR SUPERINTENDENT IS REQUIRED TO OBTAIN AN FAA CONTRACTOR BADGE PRIOR TO THE START OF WORK. A FACILITY ACCESS CARD WILL BE ISSUED AND WILL ALLOW ACCESS TO THE PERIMETER GATE. CONTRACTOR TO COORDINATE WITH HIS SUBS AND EMPLOYEES THE ACCESS TO THE FACILITY. TEMPORARY SECURITY BADGES MAY BE ISSUED TO THOSE CONSTRUCTION PERSONNEL. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDUCT OF CONTRACTOR'S PERSONNEL ON SITE. CONTRACTOR VEHICLES SHALL BE IDENTIFIED AS SUCH. EACH CONSTRUCTION EMPLOYEE SHALL CHECK IN AND OUT UPON ENTERING AND LEAVING THE SITE.
2. THE BUILDING IS A SECURE AREA, AND CONSTRUCTION PERSONNEL SHALL REMAIN IN THE CONSTRUCTION AREAS. CONTRACTOR SHALL MINIMIZE INGRESS AND EGRESS.

D. CONSTRUCTION MATERIAL STORAGE

1. STORAGE OF CONSTRUCTION MATERIALS AND TRAILERS ON THE SITE SHALL BE LIMITED TO THE CONSTRUCTION STAGING AREA. MATERIALS SHALL BE NEATLY STORED AND PROTECTED. A CONSTRUCTION FENCE SHALL BE PROVIDED AT THE DISCRETION OF THE FAA CONTRACTING OFFICERS REPRESENTATIVE. CONTRACTOR SHALL NOT PERFORM ANY DIGGING WITHOUT PERMISSION FROM THE FAA CONTRACTING OFFICERS REPRESENTATIVE. BURIED CABLES AND OTHER EXISTING UNDERGROUND UTILITIES MAY RUN THROUGH THE STAGING AREA AND ELSEWHERE.

E. CONSTRUCTION DEBRIS

1. ENCLOSED DUMPSTERS FOR DISPOSAL OF CONSTRUCTION DEBRIS SHALL BE PROVIDED BY THE CONTRACTOR WITHIN THE STAGING AREA. THE AREAS AROUND THE DUMPSTERS SHALL BE KEPT CLEAN AND FREE OF DEBRIS AND DUST DURING CONSTRUCTION. DEBRIS SHALL BE REMOVED BY THE CONTRACTOR IN A TIMELY MANNER.
2. REMOVE ALL CONSTRUCTION AND/OR DEMOLITION DEBRIS FROM THE JOB SITE TO MAINTAIN A CLEAN AND SAFE ENVIRONMENT AND TO PREVENT THE POSSIBILITY OF A FIRE OR LIFE SAFETY HAZARD.

F. DEMOLITION AND CONSTRUCTION HOURS

1. THE CONTRACTOR SHALL NOT INTERFERE WITH THE AIR TRAFFIC CONTROL FUNCTION OF THE FACILITY. DEMOLITION NOISE, CONSTRUCTION NOISE AND ALL WORK IN AREAS ADJACENT TO THE AIR TRAFFIC CONTROL FUNCTION MUST BE ACCOMPLISHED AFTER NORMAL OPERATING HOURS. COORDINATE NIGHT WORK AND OVERTIME CONSTRUCTION IN ADVANCE WITH THE FAA CONTRACTING OFFICERS REPRESENTATIVE.
2. SEE CONSTRUCTION SEQUENCE NOTES FOR FURTHER INFORMATION.
3. CONCRETE SAWING, GRINDING, CORE DRILLING, CONCRETE DEMOLITION AND ANCHOR DRILLING WILL BE ALLOWED ONLY AT PREARRANGED TIMES APPROVED BY THE FAA CONTRACTING OFFICERS REPRESENTATIVE.

G. EQUIPMENT PROTECTION

1. EXISTING FAA AIR TRAFFIC COMPUTERS AND EQUIPMENT SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUOUS PROTECTION OF THIS EQUIPMENT FROM PHYSICAL AND ELECTRICAL DAMAGE AS A RESULT OF INCIDENTAL OR ACCIDENTAL NEGLIGENCE SUCH AS, BUT NOT LIMITED TO, DISRUPTION OF POWER TO THE UNITS. INFORM THE FAA CONTRACTING OFFICERS REPRESENTATIVE IMMEDIATELY IF SUCH DAMAGE OR DISRUPTION OF POWER SHOULD OCCUR. THE LOSS OF THESE COMPUTERS AND EQUIPMENT FOR ANY AMOUNT OF TIME WILL JEOPARDIZE THE SAFETY OF THE FLYING PUBLIC. SEE SPECIAL NOTES ON SHEET M000 FOR ADDITIONAL REQUIREMENTS.
2. SHUTDOWNS, CUTOVERS AND ANY TEMPORARY PROVISIONS FOR PLUMBING, MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE ACCOMPLISHED AFTER NORMAL OPERATING HOURS. PREPARATORY WORK SHALL BE COMPLETED PRIOR TO SHUTDOWN. CUTOVER WORK SHALL BE SCHEDULED AND COORDINATED WITH THE FAA CONTRACTING OFFICERS REPRESENTATIVE A MINIMUM OF 10 WORKING DAYS IN ADVANCE OF THE SHUTDOWN OR CUTOVER.
3. WELDING EQUIPMENT SHALL NOT BE POWERED BY THE FACILITY ELECTRICAL SYSTEM. WELDING SHALL NOT BE PERMITTED IN FAA OCCUPIED AREA.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

ROBERT A. BASS LICENSE No. 44228 1/31/2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

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WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
GENERAL
CONSTRUCTION COORDINATION NOTES

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
	DESIGNED CRK / ISSUED BY / ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN 31, 2020 JCN 1508912
	DRAWN CRK	DRAWING NO FLL-D-ATCT-G040 REV
	CHECKED RAB	

SUSPECTED ASBESTOS MATERIAL LOCATION SUMMARY (SEE SPECIFICATIONS FOR ACM REPORT)				
ROOM NAME		ASBESTOS MATERIAL (ACM)	RESULTS	AFFECTED BY THE PROJECT
BASE BUILDING				
AF STORAGE, EAST WALL	6" BEIGE BASE BOARD	TAN MASTIC	TEM - SAMPLE NOT ANALYZED	NO
AF STORAGE	12"X12" PEACH VINYL FLOOR TILE	TAN MASTIC	TEM - SAMPLE NOT ANALYZED	NO
CONFERENCE ROOM	12"X12" WHITE VINYL FLOOR TILE	YELLOW MASTIC	TEM - SAMPLE NOT ANALYZED ASSUME ACM	YES
TELCO	4" BROWN VINYL BASEBOARD	TAN MASTIC	TEM - SAMPLE NOT ANALYZED	NO
EQUIPMENT ROOM	12"X 12"WHITE VINYL FLOOR TILE WITH SPOTS AND BLACK MASTIC	BLACK MASTIC	YES	NO
		OFF WHITE FLOOR TILE	TEM - SAMPLE NOT ANALYZED	NO
TELCO	12"X 12"WHITE VINYL FLOOR TILE WITH SPOTS AND BLACK MASTIC	BLACK MASTIC	YES	NO
ATCT				
10TH FLOOR (JUNCTION LEVEL), EQUIPM ROOM	2" BLACK VINYL BASE BOARD	YELLOW MASTIC	TEM - SAMPLE NOT ANALYZED	NO
10TH FLOOR (JUNCTION LEVEL), CORRIDOR	INTERIOR PERIMETER DRYWALL WITH JOINT COMPOUND	WHITE JOINT COMPOUND	YES	YES
	12"X 12" WHITE VINYL FLOOR TILE GREY SPOTS	YELLOW MASTIC	TEM - SAMPLE NOT ANALYZED ASSUME ACM	YES
10TH FLOOR (JUNCTION LEVEL), STAIRS	BLACK VINYL FLOOR TILE WITH STRIKES AND MASTIC	YELLOW MASTIC	TEM - SAMPLE NOT ANALYZED	NO

HAZMAT NOTES

1. BUILDING CONTAINS HAZARDOUS MATERIAL (HAZMAT). THE TABLE ON THIS DRAWING IS A SUMMARY OF ASBESTOS CONTAINING MATERIAL (ACM) AND IT'S LOCATION AS SHOWN IN THE REPORT PREPARED BY RESEARCH MANAGEMENT CONSULTANTS, INC. A SUMMARY OF THIS REPORT IS INCLUDED AS AN APPENDIX TO THE SPECIFICATIONS. THE COMPLETE REPORT IS ON FILE WITH THE FAA. PROVIDE TEST WHERE ASSUMED ACM IS LISTED.
2. IT IS THE INTENT OF THIS DRAWING FOR ALL EXISTING ACM TO BE REMOVED. REFER TO APPROPRIATE SECTIONS OF FAA STANDARD SPECIFICATIONS.
3. PAINTED AREAS SUCH AS THE STAIR HANDRAILS ARE ASSUMED TO CONTAIN LEAD-BASED PAINT. REFER TO FAA STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL ENSURE THAT ALL DEMOLITION GENERATED SOLID WASTES, INCLUDING THOSE THAT CONSIST OF ASBESTOS, LEAD, OR OTHER HAZARDOUS CONSTITUENTS, WASTES, SUBSTANCES, OR MATERIALS, ARE MANAGED TO AVOID CONTAMINATION OF ENVIRONMENTAL MEDIA AND HANDLED AND DISPOSED OF CONSISTENT WITH ALL APPLICABLE LAWS AND REQUIREMENTS.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
GENERAL
HAZARDOUS MATERIALS

FT LAUDERDALE (INTERNATIONAL) FL

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TRACON BASE BUILDING
(TRACO)

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FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
GENERAL
COVER SHEET

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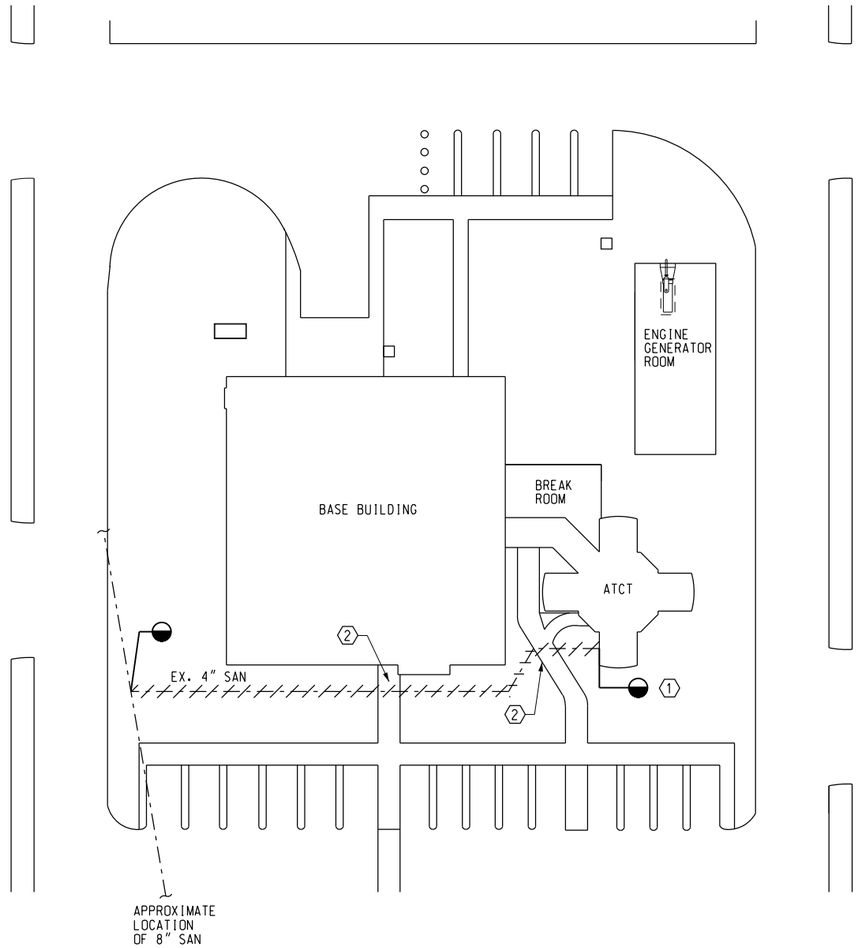

1 D000 PLUMBING SITE PLAN - DEMOLITION

SCALE: 1" = 20'-0"

NOTES

1. REPLACE EXISTING 4" SANITARY SEWER FOR ENTIRE LENGTH OF RUN TO 8" LINE. APPROXIMATE LOCATION OF EXISTING 8" PIPE IS SHOWN FROM PLANS DATED 08/04/1987. SEE ATCT-D400 FOR CONTINUATION.
2. THIS CONCRETE PATH IS MAIN EGRESS TO BUILDING. ANY WORK ON THIS AREA MUST BE PERFORMED WHEN TOWER IS UNOCCUPIED. COORDINATE WORK WITH COTR.

GENERAL NOTES

A. SEE TRACO-P000 FOR GENERAL NOTES AND SYMBOLS. SEE TOWB-G010 AND TOWB-G011 FOR ABBREVIATIONS.

B. PIPE SHOWN ALSO SERVES EXISTING RESTROOM AT TOP OF ATCT. DEMOLITION WORK SHALL NOT COMMENCE UNTIL NEW PIPE HAS BEEN INSTALLED.

N

20' 0 20' 40'

1" = 20' - 0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
PLUMBING
SITE PLAN - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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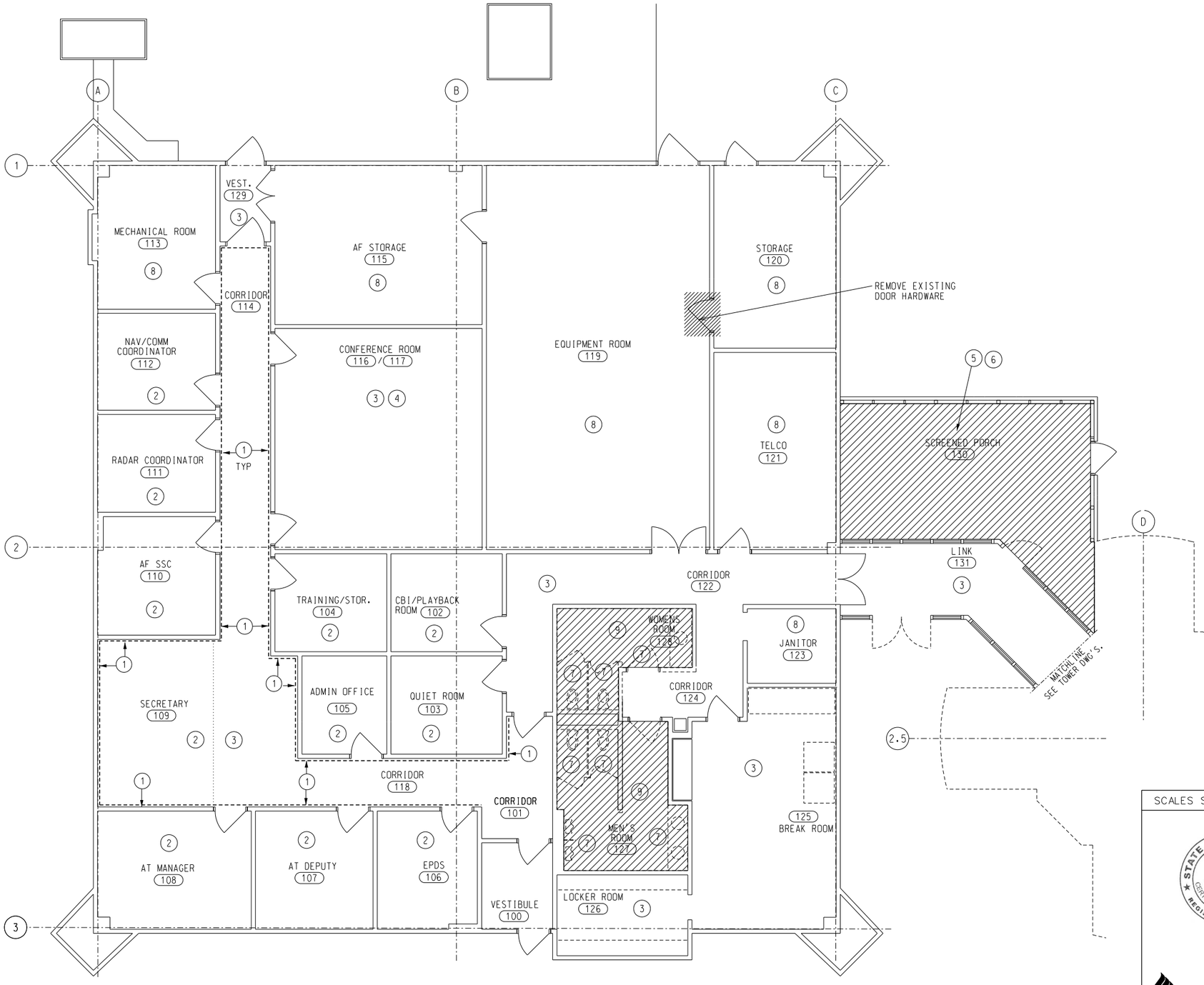

1 D100 BASE BUILDING FLOOR PLAN DEMOLITION

SCALE: 3/16" = 1' - 0"

N

4' 0 4' 8' 12'

3/16" = 1'-0"

KEYNOTES

1. REMOVE EXISTING WALL COVERING. REFER TO A550 FOR NEW WALL FINISH TO BE APPLIED.
2. REMOVE EXISTING CARPET TILE.
3. REMOVE EXISTING VCT.
4. REFER TO H001 FOR HAZMAT NOTES AND REPORT INFORMATION PRIOR TO ANY DEMOLITION IN THE BUILDING.
5. REMOVE AND SALVAGE EXISTING CEILING FIXTURES, STORE TO BE REINSTALLED. SEE D500 FOR ELECTRICAL DEMOLITION.
6. REMOVE EXISTING SCREENED-IN PORCH CEILING AND ANY OTHER WOOD FINISHES PRESENT IN THE STRUCTURE.
7. RESTROOMS TO BE RENOVATED. REMOVE EXISTING TOILET FIXTURES AND ACCESSORIES, CERAMIC TILES.
8. NO WORK TO BE DONE IN THIS ROOM.
9. REMOVE EXISTING CEILING AND CEILING FIXTURES. SEE D500 FOR ELECTRICAL DEMOLITION.
10. REMOVE 3" ROOF/STORM DRAIN PIPE. SEE DRAWING TRACO-D140 FOR ROOF DRAIN LOCATION AND TRACO-D400 FOR PLUMBING DEMOLITION.
11. REMOVE AND REINSTALL CEILING TILE AND GRID FOR HVAC DEMOLITION AND UPGRADES. SEE D300 FOR MECHANICAL DEMOLITION.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURE
BASE BUILDING FLOOR PLAN DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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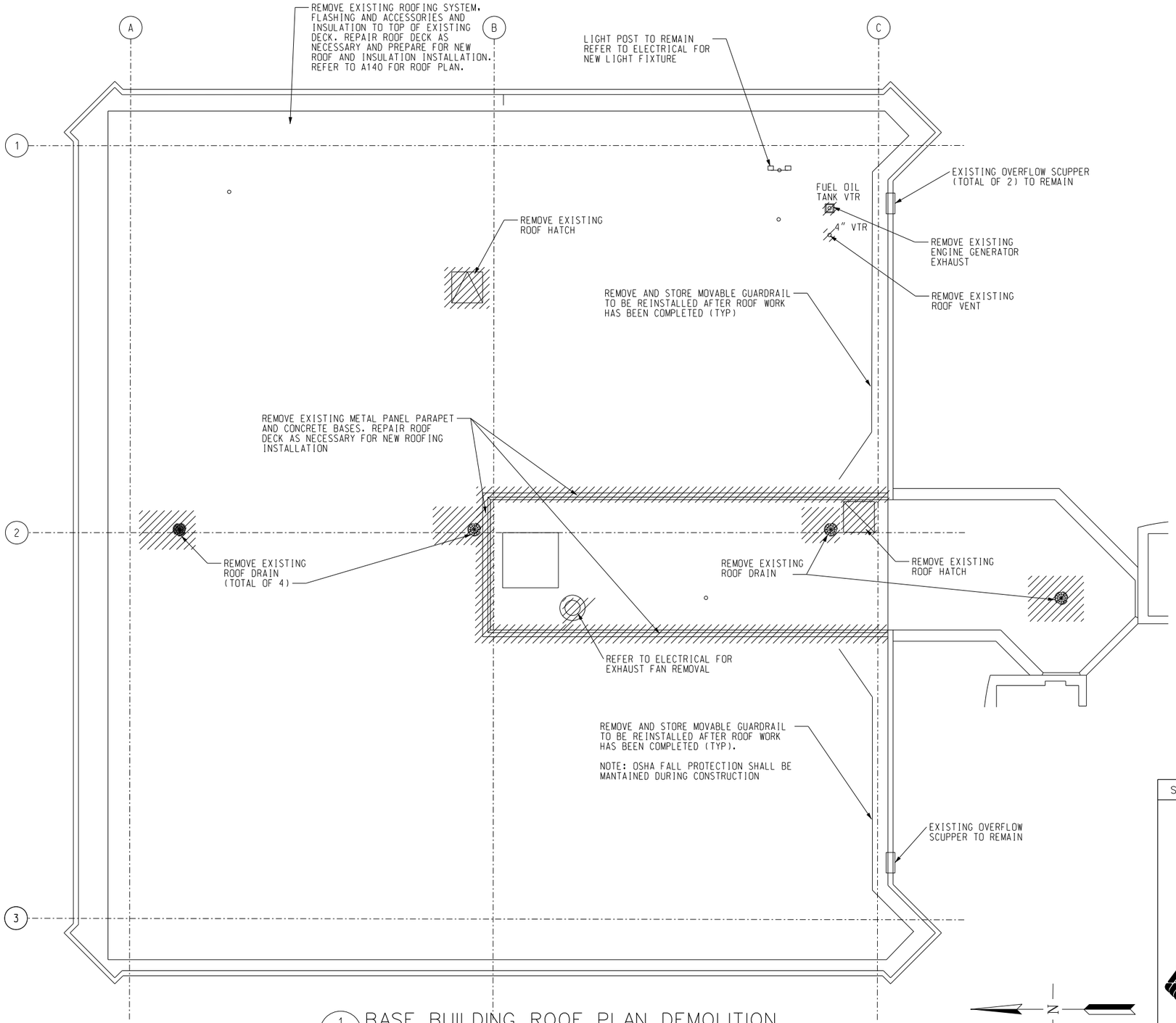

1 / D140 BASE BUILDING ROOF PLAN DEMOLITION
SCALE: 3/16" = 1' - 0"

N
4' 0 4' 8' 12'
3/16" = 1'-0"

NOTES

1. REFER TO ELECTRICAL DEMOLITION FOR LIGHTNING PROTECTION REMOVAL.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

STATE OF GEORGIA
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MAJOR IMPROVEMENTS
ARCHITECTURE
BASE BUILDING ROOF PLAN DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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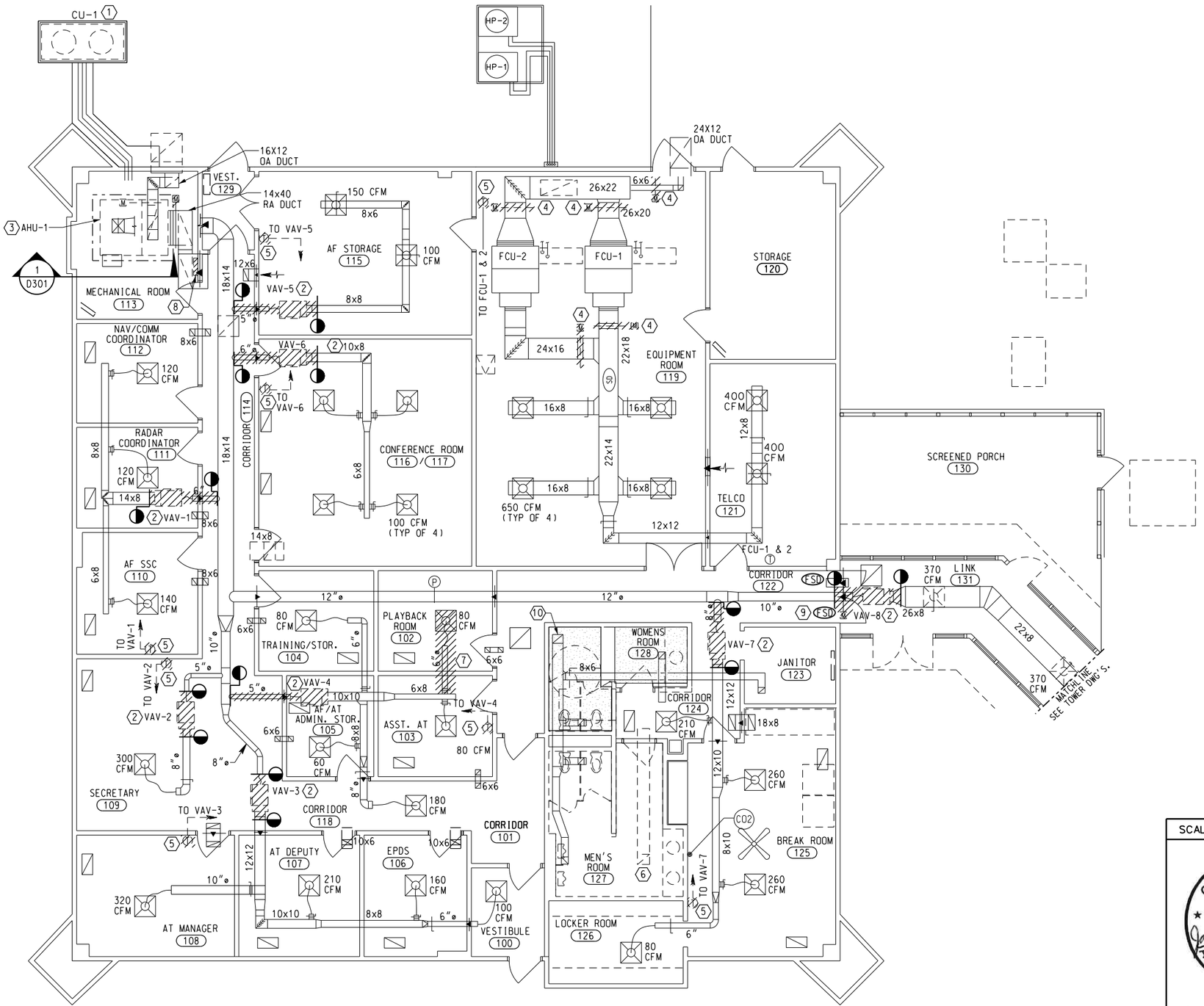

1 D300 BASE BUILDING HVAC FLOOR PLAN - DEMOLITION

SCALE: 3/16" = 1' - 0"

4' 0 4' 8' 12'

3/16" = 1'-0"

NOTES

1. CONDENSING UNIT (CU-1) AND ASSOCIATED LINESET REPLACED IN INTIAL PHASE OF RENOVATION.
2. REMOVE VAV BOXES (VAV-1 THRU VAV-8) AND FD WHERE APLICABLE.
3. AIR HANDLING UNIT AHU-1 REPLACED IN INITIAL PHASE OF RENOVATION.
4. REMOVE EXISTING CONTROL DAMPERS AND ACTUATORS.
5. REMOVE EXISTING THERMOSTAT.
6. EXISTING MAKE-UP AIR DUCT FOR TOILETS.
7. REMOVE TAP AND MVD. PATCH AND SEAL DUCTWORK AIRTIGHT.
8. REMOVE EXISTING DDC CONTROL PANEL.
9. REMOVE EXISTING FIRE-SMOKE DAMPER (TYP 2).
10. UP TO EXISTING EF-2. EF-2 TO BE REMOVED.

GENERAL NOTES

A. AIR FLOW SHOWN ON EXISTING SUPPLY AIR OUTLETS ARE FROM AS-BUILT DRAWINGS. THE APPROVED TAB CONTRACTOR SHALL PERFORM AIR FLOW TEST AND RECORD THE ACTUAL AIR FLOW ON EXISTING AIR OUTLETS IN BASE BUILDING, PRIOR TO CONSTRUCTION START OR ANY HVAC DEMOLITION WORK, RESULTS SHALL BE RETAINED AND USED TO RESTORE THE SYSTEM AT THE COMPLETION OF THE MECHANICAL WORK. THE ACTUAL AIR FLOW SHALL BE SUBMITTED TO THE FAA CONTRACTING OFFICER REPRESENTATIVE FOR REVIEW, AFTER CONSTRUCTION. THE SYSTEM SHALL BE REBALANCED ALL EXISTING AND NEW AIR DEVICES TO AIR FLOW INDICATED.

B. EXISTING WORK SHOWN LIGHT SOLID LINE WITHOUT HATCHING SHALL REMAIN.

C. CONTRACTOR SHALL COMPLETELY REMOVE THE EXISTING HVAC CONTROL SYSTEM INCLUDING OPERATOR WORKSTATION, CONTROL PANELS, CONTROL WIRING, THERMOSTATS AND ALL ASSOCIATED CONTROL COMPONENTS.

D. CONTRACTOR SHALL REVIEW THE EXISTING CONTROL DRAWINGS AND ACTUAL CONTROL INSTALLATION PRIOR TO PERFORMING ANY WORK AND SHALL MINIMIZE DOWNTIME OF THE HVAC SYSTEM.

E. SEE DRAWING TRACO-M000 FOR HVAC LEGEND, GENERAL NOTES AND SPECIAL NOTES.

F. WHERE FIRE OR FIRE/SMOKE DAMPERS ARE REMOVED IN CONJUNCTION WITH THIS WORK, THE REMOVED DAMPER SHALL BE REPLACED WITH THE SAME TYPE, RATING AND SHALL BE COORDINATED WITH THE FIRE ALARM AND ELECTRICAL CONTRACTORS.

G. OWNER SHALL HAVE FIRST RIGHT TO ALL EQUIPMENT THAT IS REMOVED.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS

MECHANICAL

BASE BUILDING FLOOR PLAN - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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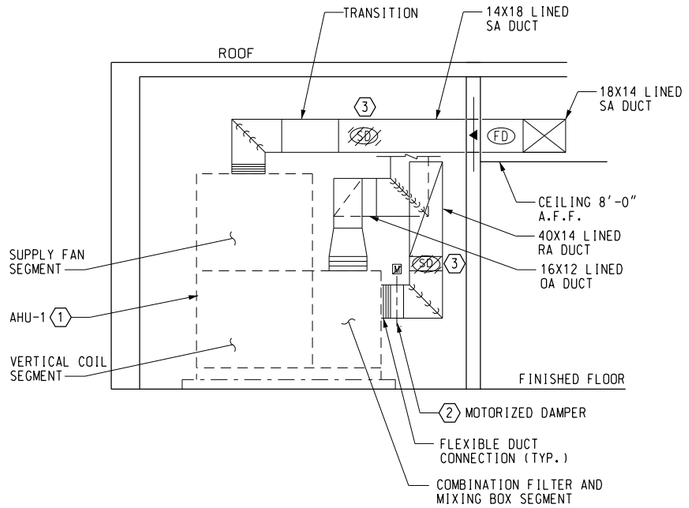

1 / D301 MECHANICAL ROOM BASE BUILDING PLAN - DEMOLITION

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

NOTES

1. EXISTING AHU-1 REPLACED IN INITIAL PHASE OF RENOVATION.
2. EXISTING MOTORIZED DAMPER TO REMAIN.
3. REMOVE EXISTING SMOKE DETECTORS.

2' 0 2' 4' 6'

3/8" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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MAJOR IMPROVEMENTS
MECHANICAL
MECHANICAL ROOM BASE BUILDING PLAN - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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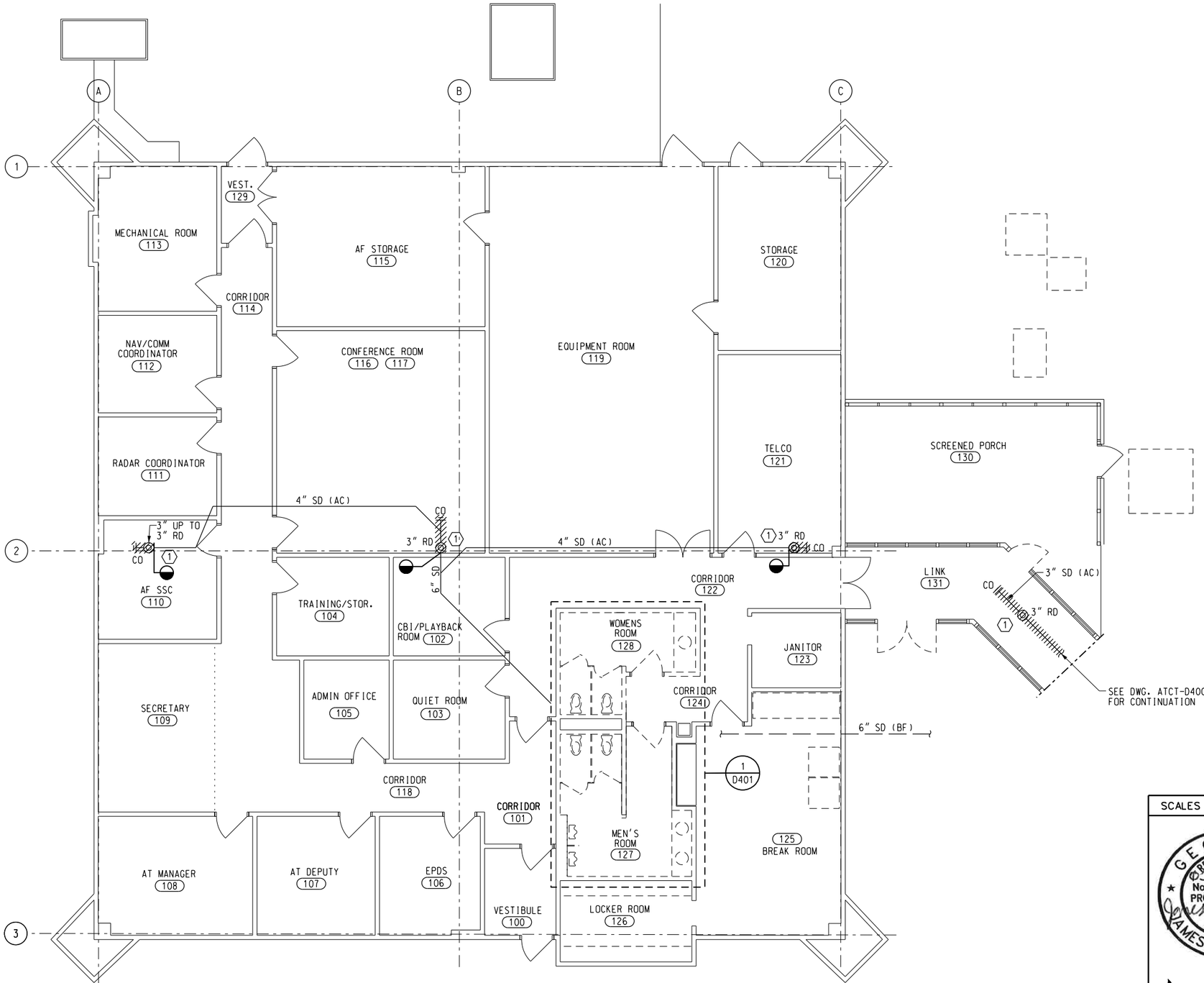

1 D400 BASE BUILDING FLOOR PLAN - DEMOLITION

SCALE: 3/16" = 1' - 0"

N

4' 0 4' 8' 12'

3/16" = 1'-0"

NOTES

1. REMOVE EXISTING ROOF DRAINS AND REPLACE WITH 4" ROOF DRAINS. SEE TRACO-P100 FOR MORE INFORMATION. CEILING TILES WILL NEED TO BE REMOVED AND REPLACED FOR WORK.

GENERAL NOTES

A. SEE DRAWING TRACO-P000 FOR PLUMBING GENERAL NOTES AND SYMBOLS. SEE TOWB-G010 AND TOWB-G011 FOR ABBREVIATIONS.

B. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF SITE CONDITIONS DEVIATE SIGNIFICANTLY FROM CONTRACT DOCUMENTS.

C. ALL WORK IN THIS AREA SHALL BE COMPLETED AFTER HOURS. ALL PHASED WORK NEEDS TO BE COMPLETED AND BUILDING PUT BACK TO WORKING ORDER BY START OF ATCT OPERATIONS.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 01/31/20

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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
PLUMBING
BASE BUILDING FLOOR PLAN - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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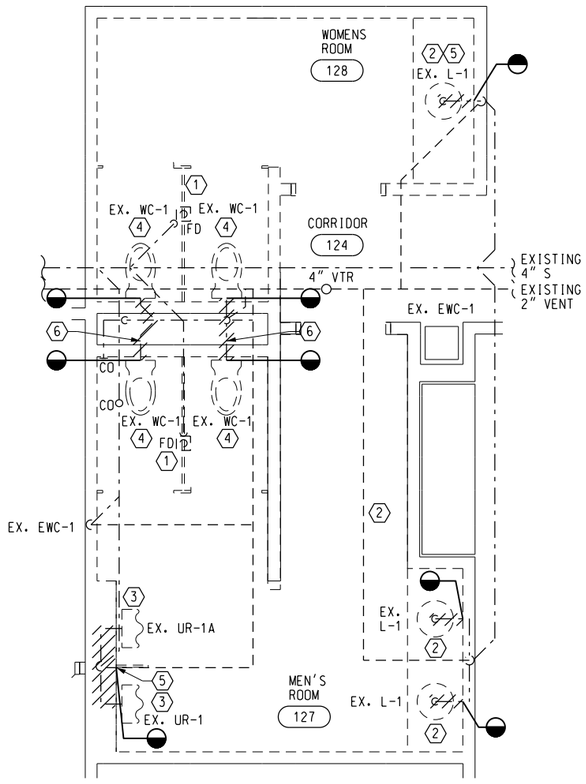
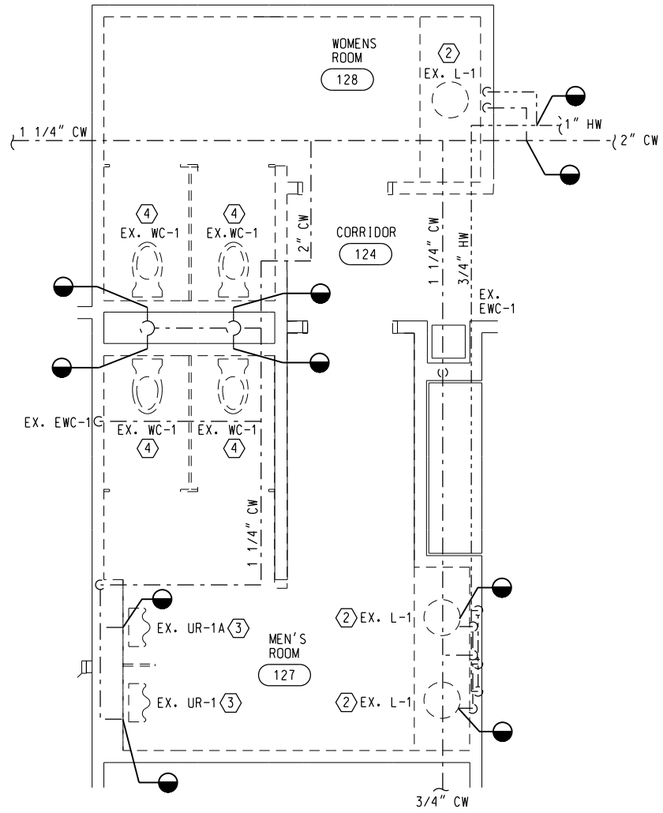


1 D401 ENLARGED RESTROOM SANITARY DEMOLITION PLAN

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



2 D401 ENLARGED RESTROOM DOMESTIC DEMOLITION PLAN

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

NOTES

1. REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED ACCESSORIES. REPLACE FLOOR DRAIN IN IT'S ENTIRETY WITH THE EXCEPTION OF THE P-TRAP.
2. REMOVE EXISTING LAVATORY SUPPLY LINES, AND ALL ASSOCIATED ACCESSORIES.
3. REMOVE EXISTING LAVATORY URINAL FLUSH VALVES, SUPPORTS, AND ALL ASSOCIATED ACCESSORIES.
4. REMOVE EXISTING WATER CLOSET, FLUSH VALVE, SUPPORTS AND ALL ASSOCIATED ACCESSORIES.
5. FINISH IN THIS AREA TO BE DEMOLISHED.
6. REMOVE BACK-TO-BACK WATER CLOSET CARRIER.

GENERAL NOTES

A. EXISTING WORK SHOWN LIGHT SOLID LINE WITHOUT HATCHING SHALL REMAIN.

B. SEE TRACO-P000 FOR GENERAL NOTES AND SYMBOLS. SEE TOWB-G010 AND TOWB-G011 FOR ABBREVIATIONS.

N

2' 0 2' 4' 6'

3/8" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 01/31/2020

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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
PLUMBING
ENLARGED RESTROOM DEMOLITION PLAN

FT LAUDERDALE (INTERNATIONAL) FL

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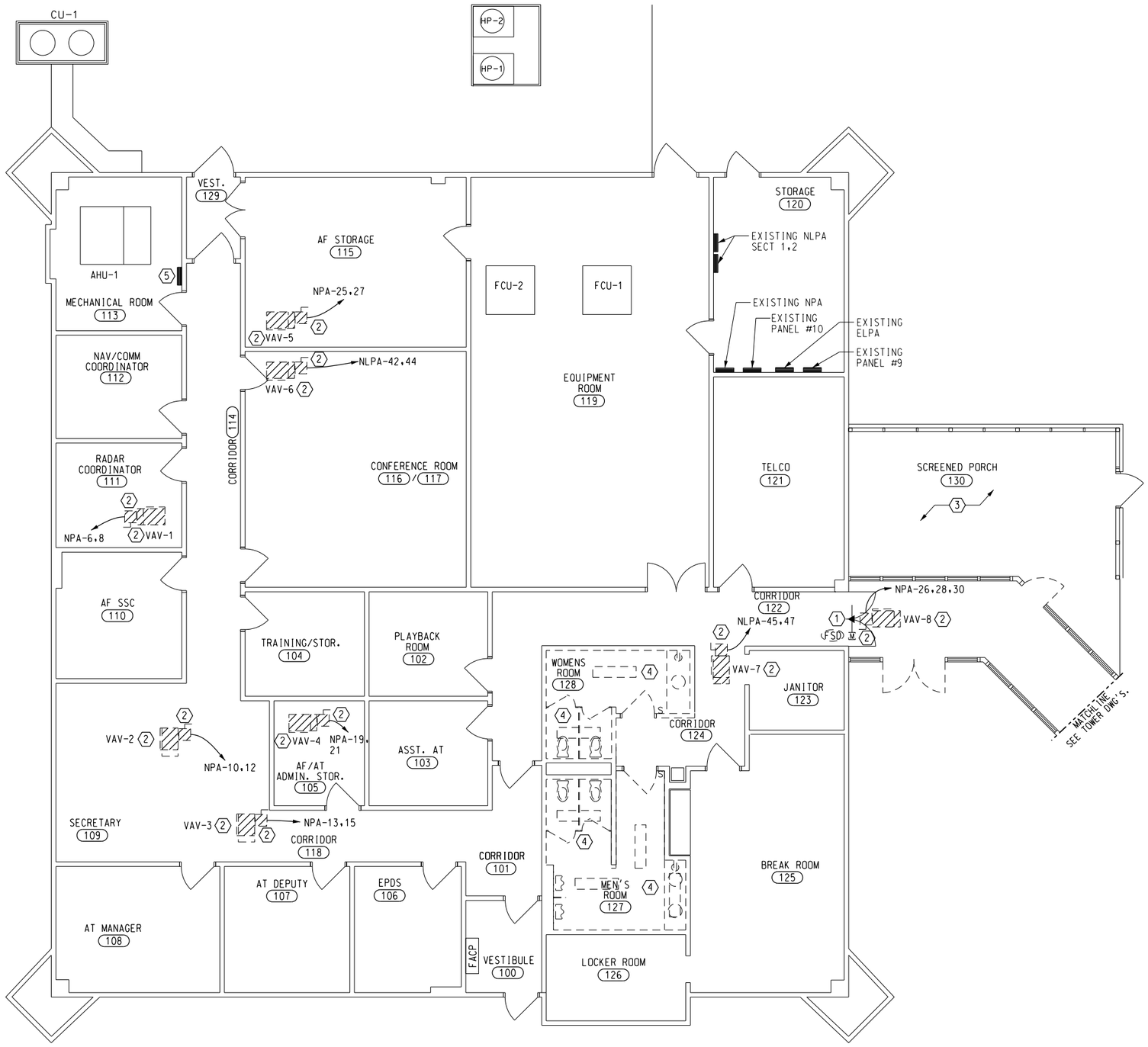

1 / D500 BASE BUILDING FLOOR PLAN - DEMOLITION

SCALE: 3/16" = 1' - 0"

N

4' 0 4' 8' 12'

3/16" = 1'-0"

GENERAL NOTES

A. EXISTING WORK SHOWN LIGHT SOLID LINE WITHOUT HATCHING SHALL REMAIN.

B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

C. SEE DRAWING TRACO-D501 FOR ELECTRICAL DEMOLITION REQUIRED ON THE ROOF. REMOVE ALL ELECTRICAL CONDUCTORS AND CONDUIT BACK TO PANEL.

D. ALL CIRCUIT NUMBERS ARE BASED ON AS-BUILT DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CIRCUITS PRIOR TO DEMOLITION.

KEY NOTES

(1) DISCONNECT CIRCUIT WIRING TO FIRE SMOKE DAMPERS 1 & 2. DAMPER SERVED BY PANEL #9 TO BE REPLACED, WIRING TO REMAIN. COORDINATE WITH MECHANICAL.

(2) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED. REMOVE DISCONNECT SWITCH AND REMOVE CONDUCTORS BACK TO PANEL. CONDUIT PATHWAY TO REMAIN FOR REUSE.

(3) REMOVE AND SALVAGE EXISTING CEILING FANS AND LIGHT FIXTURES. CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS AND REINSTALL IN SAME CONDITIONS. ANY DAMAGE WHILE IN STORAGE OR DURING REINSTALLATION SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.

(4) RESTROOM TO BE RENOVATED. REMOVE ALL EXISTING LIGHT FIXTURES AND ELECTRICAL DEVICES WITHIN SPACE. CIRCUITS SERVED BY PANEL NLPA SHALL REMAIN FOR CONNECTION OF NEW DEVICES.

(5) EXISTING DDC CONTROL PANEL TO BE REPLACED. COORDINATE WITH MECHANICAL. REMOVE CIRCUIT BACK TO SOURCE.

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GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 1/31/2020

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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ELECTRICAL BASE BUILDING FLOOR PLAN - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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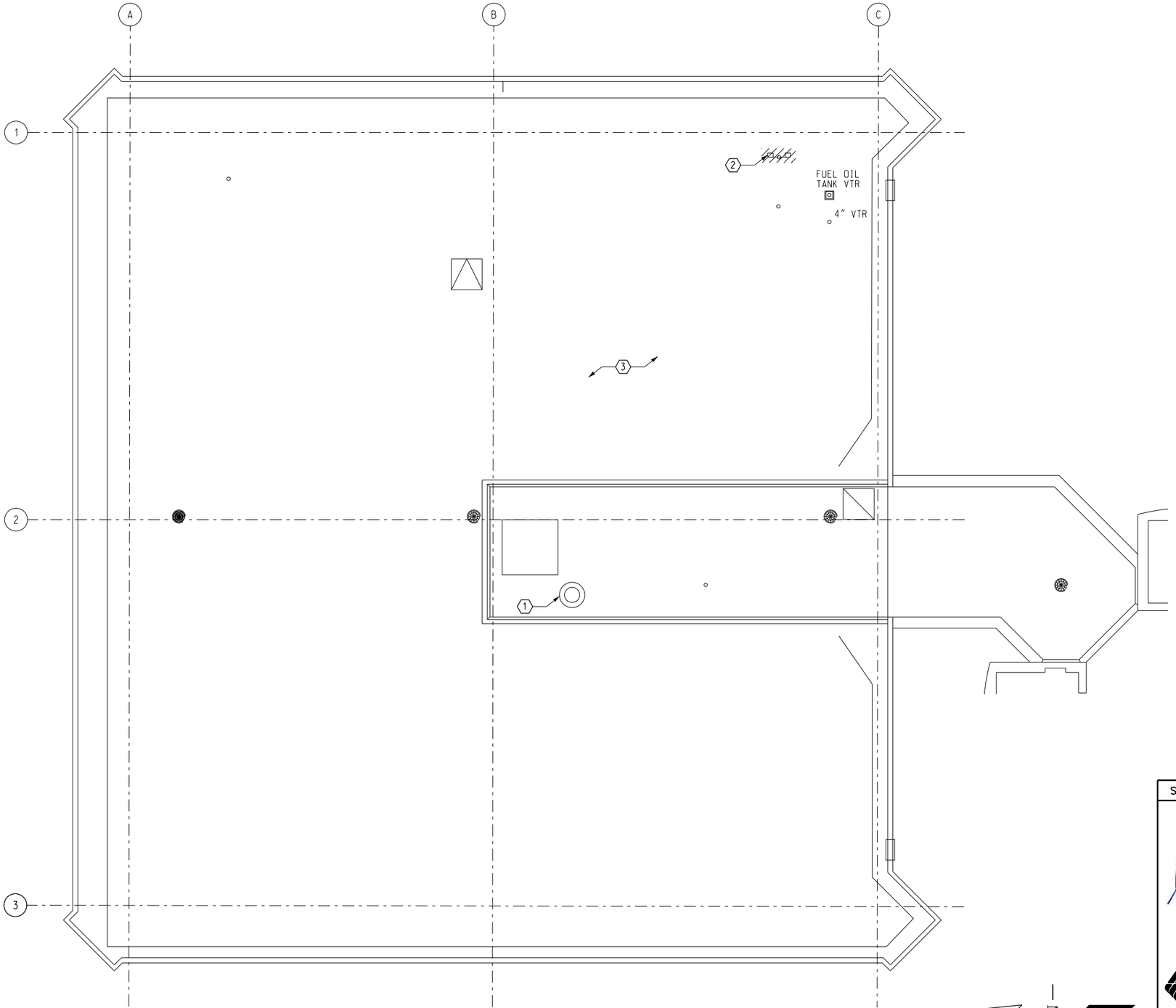
DRAWN CRK		DRAWING NO FLL-D-TRACO-D500 REV
CHECKED MAK		



1 D501 BASE BUILDING ROOF PLAN DEMOLITION
SCALE: 3/16" = 1' - 0"

GENERAL NOTES

A. EXISTING WORK SHOWN LIGHT SOLID LINE WITHOUT HATCHING SHALL REMAIN.

B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

C. SEE DRAWING TRACO-D500 FOR ELECTRICAL DEMOLITION REQUIRED ON THE GROUND FLOOR. REMOVE ALL ELECTRICAL CONDUCTORS AND CONDUIT BACK TO PANEL.

D. ALL CIRCUIT NUMBERS ARE BASED ON AS-BUILT DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CIRCUITS PRIOR TO DEMOLITION.

KEY NOTES

(1) EXISTING EXHAUST FAN EF-2 TO BE REPLACED. EXISTING CIRCUIT AND CONDUIT SERVED FROM PANEL NPA SHALL REMAIN FOR CONNECTION OF NEW EXHAUST FAN

(2) EXISTING LIGHT FIXTURES TO BE REPLACED. EXISTING LIGHTING CIRCUIT AND CONDUIT SERVED FROM PANEL NLPA SHALL REMAIN FOR CONNECTION OF NEW FIXTURES

(3) ENTIRE LIGHTNING PROTECTION SYSTEM CONDUCTORS AND HARDWARE TO BE REPLACED. REFER TO NEW WORK SHEET E-160 FROM MORE INFORMATION.

N

4' 0 4' 8' 12'
3/16" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 11/31/2020

Wiley|Wilson
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WW JOB NUMBER: 219075.00

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
BASE BUILDING ROOF PLAN DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED BRP
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ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN 31, 2020
JCN 1508912
DRAWING NO FLL-D-TRACO-D501
REV

101 DOOR NUMBER

GYPSUM BOARD PARTITION

PRECAST CONCRETE

WINDOW NUMBER

W1

X1 TYPICAL PARTITION TYPE

L1 LOUVER NUMBER

8'-6" AFF CEILING HEIGHT DESIGNATION

FLOOR HATCH

STEEL LADDER

SUMP

FLOOR MOUNTED SERVICE SINK

WALL MOUNTED SERVICE SINK

LAVATORY IN COUNTERTOP

LAVATORY WALL MOUNTED

URINAL

WATER CLOSET FLOOR MOUNTED

WATER CLOSET WALL MOUNTED

ELECTRIC WATER COOLER WALL RECESSED

ELECTRIC WATER COOLER WALL HUNG (HANDICAP)

LOCKERS

HC HANDICAP DOOR OPERATOR

2'X 4' LAY-IN ACOUSTICAL CEILING

2'X 2' LAY-IN ACOUSTICAL CEILING

SUSPENDED GYPSUM BOARD CEILING

SUPPLY DIFFUSER

RETURN GRILLE

EXHAUST GRILLE

2'X4' RECESSED FLUORESCENT LIGHTING FIXTURE

2'X2' RECESSED FLUORESCENT LIGHTING FIXTURE

4' FLUORESCENT LIGHTING FIXTURE, SURFACE MOUNTED

2' FLUORESCENT LIGHTING FIXTURE, SURFACE MOUNTED

4' FLUORESCENT STRIP FIXTURE

RECESSED FLUORESCENT/INCANDESCENT LIGHTING FIXTURE

RECESSED FLUORESCENT, WALL WASHER LIGHTING FIXTURE

WALL-MOUNTED LIGHT FIXTURE

EXIT SIGN

BLACKENED DOT INDICATES FIXTURE WITH EMERGENCY BATTERY PACK

VESTIBULE 100 ROOM NUMBER TAG

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

STATE OF GEORGIA
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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
LEGEND, SYMBOLS AND GENERAL NOTES

FT LAUDERDALE (INTERNATIONAL) FL

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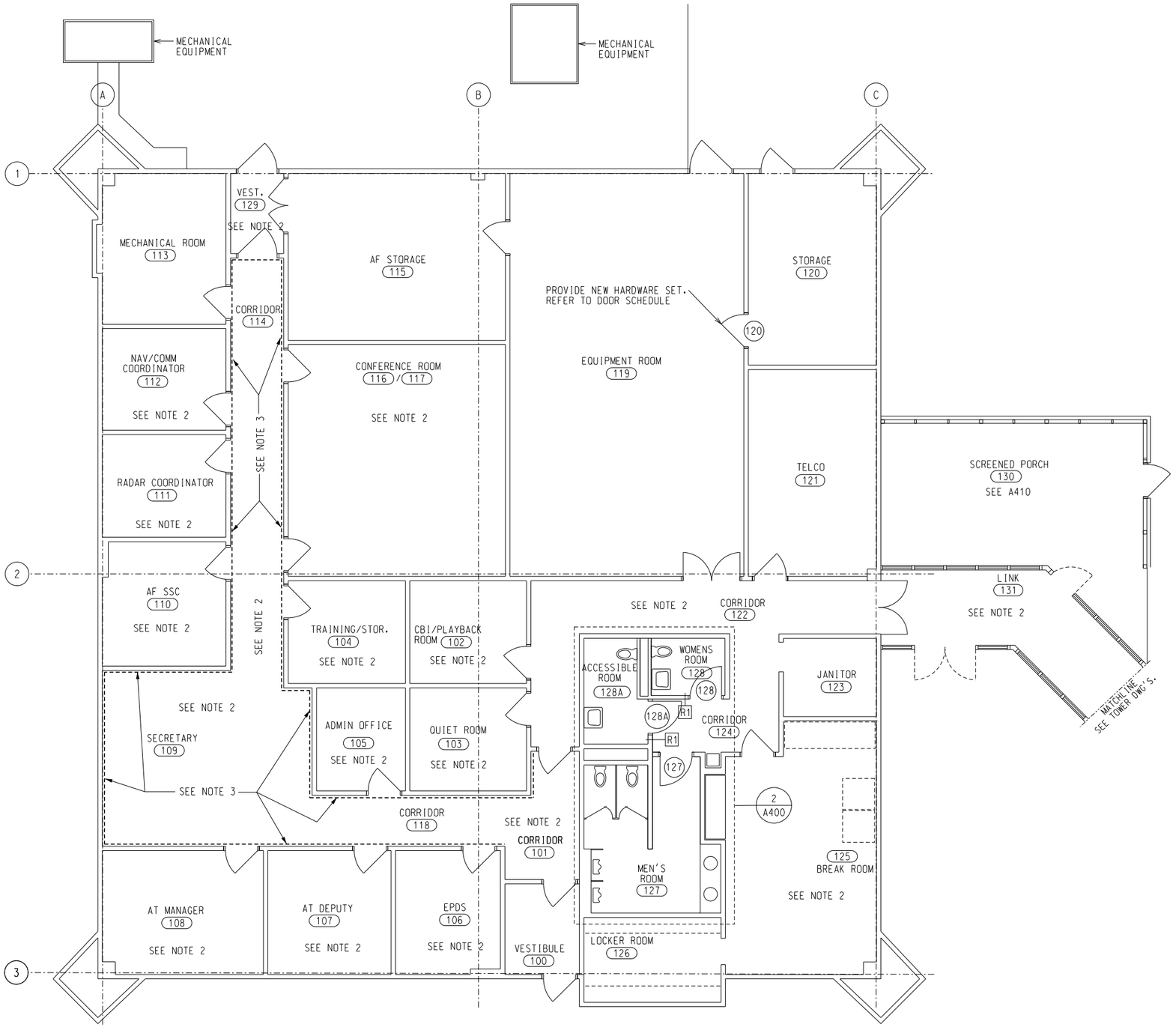
DESIGNED GMR	ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN 31, 2020 JCN 1508912
DRAWN GMR		DRAWING NO FLL-D-TRACO-A000 REV
CHECKED NXE		



1 A100 BASE BUILDING FLOOR PLAN
SCALE: 3/16" = 1' - 0"

NOTES

1. REFER TO A500 FOR FINISH AND COLOR SELECTIONS.
2. FURNISH AND INSTALL NEW FLOOR FINISHES. SEE NOTE 1.
3. AFTER WALL PAPER REMOVAL, REFINISH AND PAINT WALLS OF CORRIDOR 101, 109, 114 AND 118. SEE NOTE 1.
4. REFER TO A505 FOR DOOR SCHEDULE AND WALL TYPE.

N

4' 0 4' 8' 12'
3/16" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURE
BASE BUILDING FLOOR PLAN

FT LAUDERDALE (INTERNATIONAL) FL

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DESIGNED GMR
DRAWN GMR
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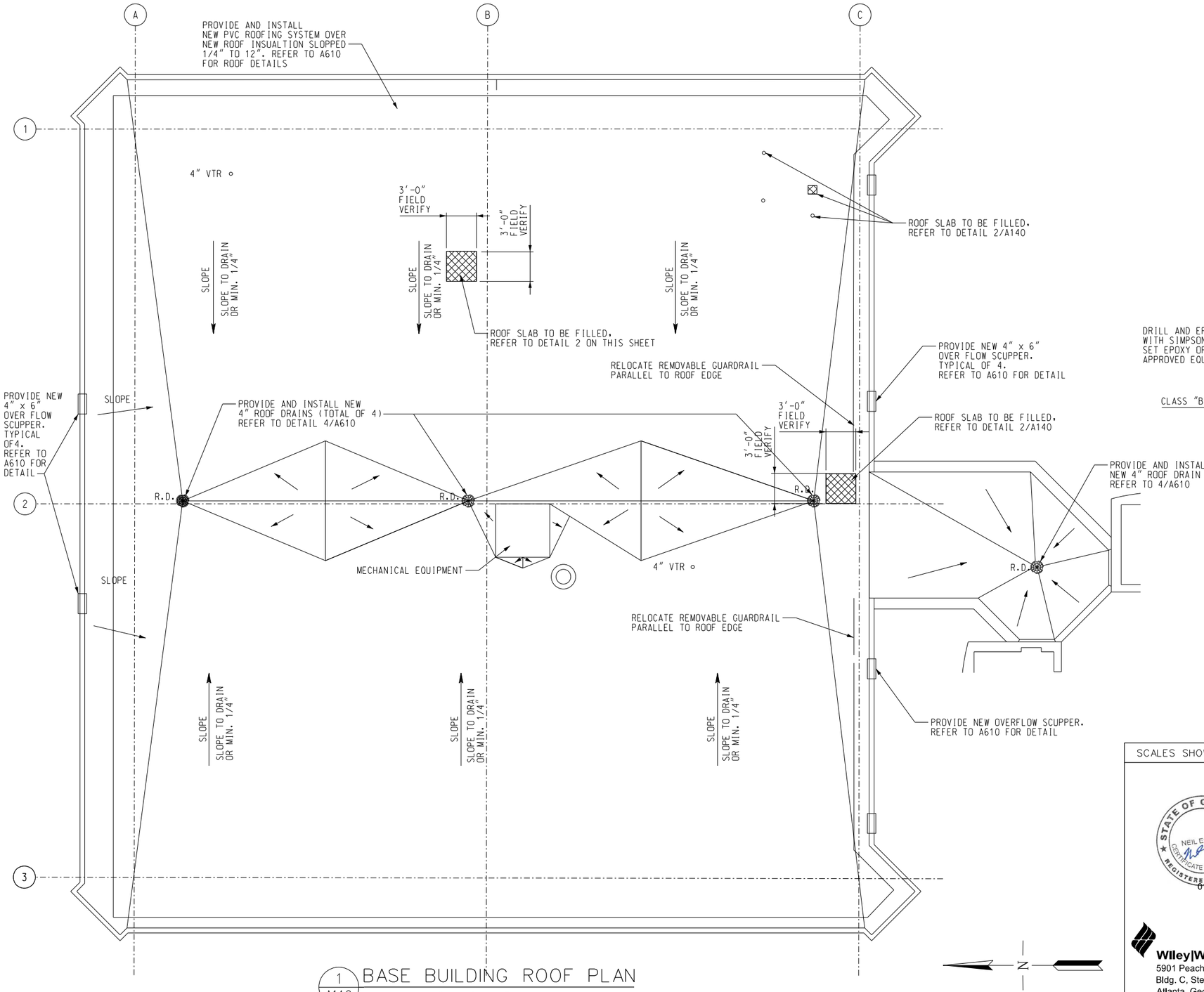
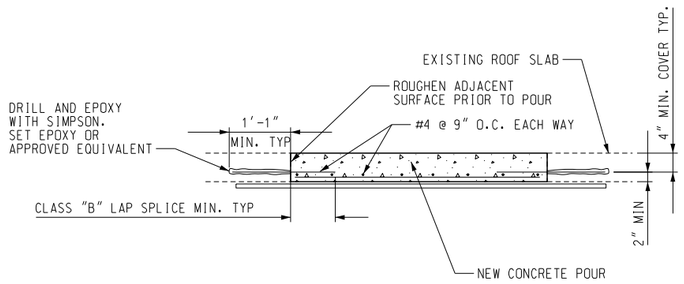
ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN 31, 2020
JCN 1508912
DRAWING NO FLL-D-TRACO-A100
REV



1 A140 BASE BUILDING ROOF PLAN
SCALE: 3/16" = 1' - 0"

NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR NEW LIGHTNING PROTECTION.
2. ALL SLOPES TO SLOPE TO DRAIN OR MIN. 1/4". TYP.



2 A140 ROOF IN-FILL DETAIL
SCALE: 3/4" = 1' - 0"

NOTE:

DETAIL APPLIES TO ALL ROOF PENETRATIONS TO BE CLOSED.

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

4' 0 4' 8' 12'
3/16" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

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MAJOR IMPROVEMENTS
ARCHITECTURE
BASE BUILDING ROOF PLAN

FT LAUDERDALE (INTERNATIONAL) FL

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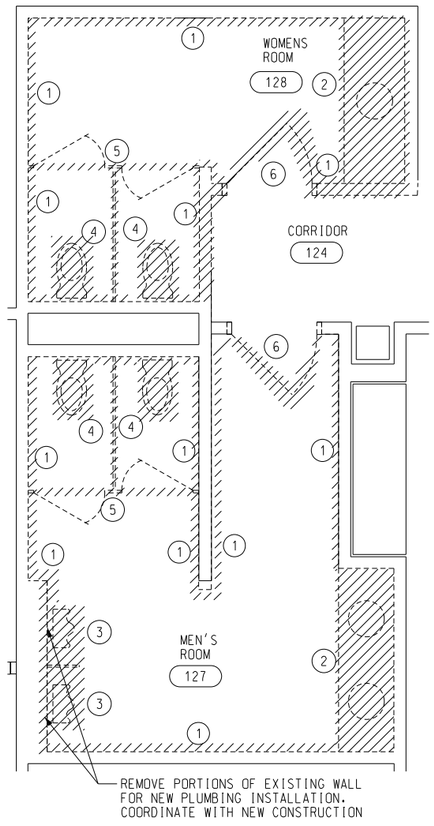
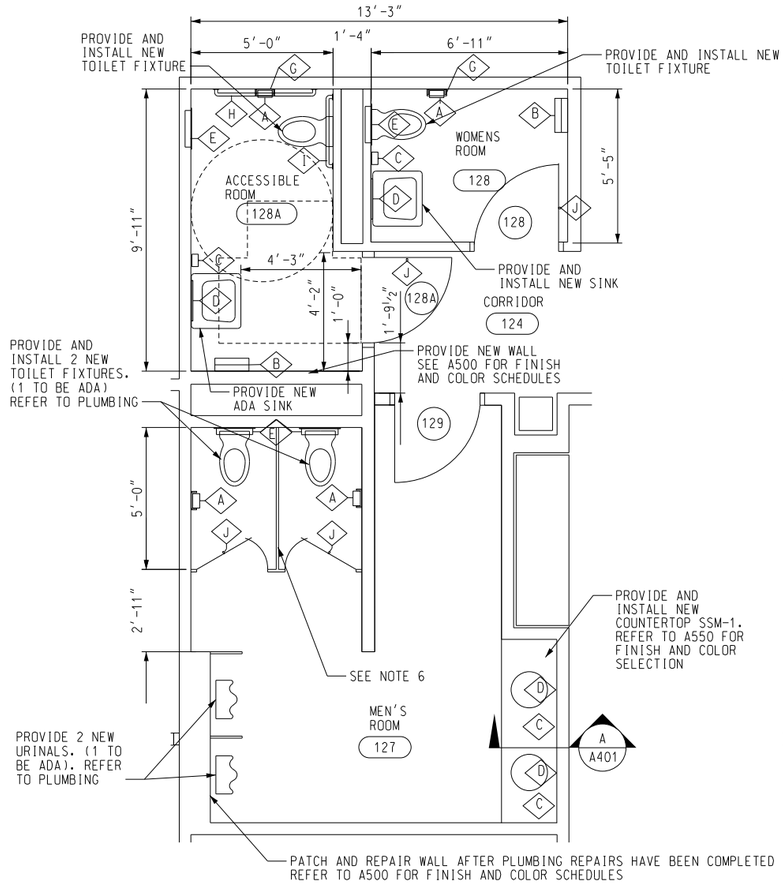


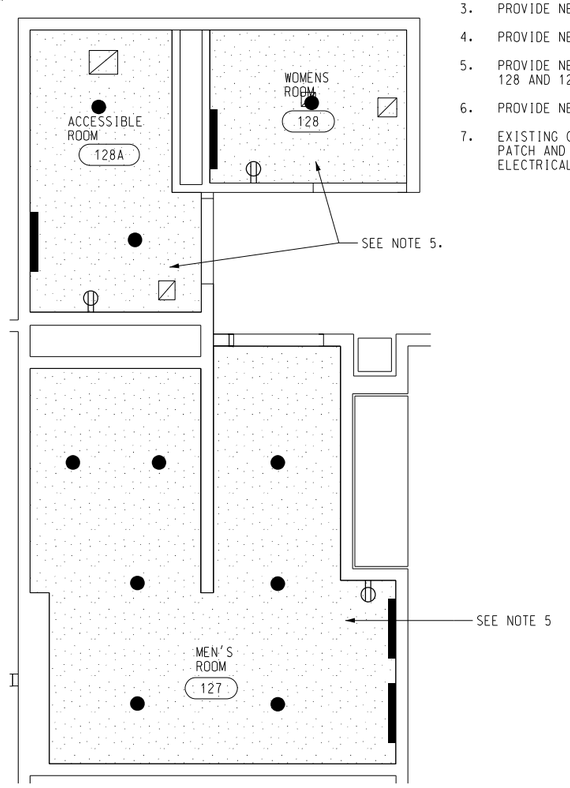
1 A400 RESTROOM DEMO PLAN

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



2 A400 RESTROOM NEW WORK PLAN

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



3 A400 RESTROOM NEW RCP

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

NOTES

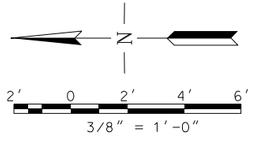
1. PROVIDE NEW BATHROOM FIXTURES. REFER TO PLUMBING DRAWINGS.
2. PROVIDE NEW ACCESSORIES. REFER TO TOILET ACCESSORIES SCHEDULE.
3. PROVIDE NEW FLOOR AND WALL CERAMIC TILE. REFER TO FINISH SCHEDULE.
4. PROVIDE NEW DOOR. REFER TO DOOR SCHEDULE.
5. PROVIDE NEW GYPSUM BOARD CEILING AND CEILING FIXTURES IN ROOMS 128 AND 128A.
6. PROVIDE NEW TOILET PARTITIONS. REFER TO A500 FOR MORE INFORMATION.
7. EXISTING CEILING TO REMAIN. EXISTING LIGHT FIXTURES TO BE REMOVED. PATCH AND PAINT CEILING. INSTALL NEW LIGHT FIXTURES. REFER TO ELECTRICAL.

DEMOLITION KEYNOTES

1. REMOVE EXISTING CERAMIC TILE
2. REMOVE EXISTING LAVATORY AND COUNTER TOP
3. REMOVE EXISTING URINALS
4. REMOVE EXISTING WATERCLOSETS
5. REMOVE EXISTING TOILET PARTITIONS
6. REMOVE EXISTING DOOR

TOILET ACCESSORIES SCHEDULE

KEY	DESCRIPTION	EQUAL TO	MOUNTING TYPE
A	TOILET TISSUE DISPENSER	BOBRICK B-686	SURFACE MOUNTED
B	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE	BOBRICK B-3699	SURFACE MOUNTED
C	SOAP DISPENSER	BOBRICK B-2111	SURFACE MOUNTED
D	MIRROR 18" X 30"	BOBRICK B-165 1830	SURFACE MOUNTED
E	SEAT COVER DISPENSER	BOBRICK B-301	RECESSED MOUNTED
F	SANITARY NAPKIN VENDOR	BOBRICK B-2706	SURFACE MOUNTED
G	SANITARY NAPKIN DISPOSAL	BOBRICK B-254	SURFACE MOUNTED
H	GRAB BARS 1-1/2" X 42"	BOBRICK B-6806 SERIES	SURFACE MOUNTED
I	GRAB BARS 1-1/2" X 36"	BOBRICK B-6806 SERIES	SURFACE MOUNTED
J	COAT HOOK	BOBRICK B-212	SURFACE MOUNTED



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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURE
RESTROOM DEMOLITION AND NEW WORK

FT LAUDERDALE (INTERNATIONAL) FL

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DESIGNED	GMR	ISSUED BY	DATE JAN 31, 2020 JCN 1508912
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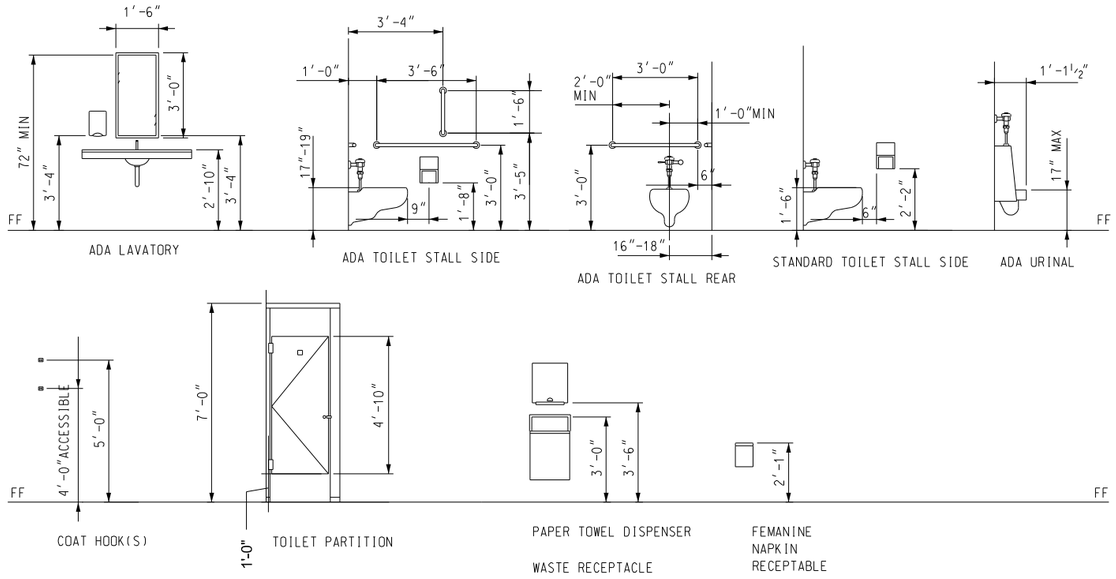
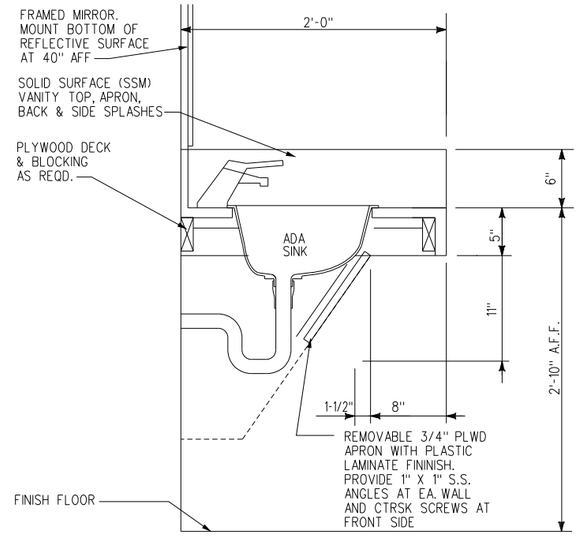


1 A401 ACCESSORIES HEIGHTS

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



A A401 TYP. LAVATORY SECTION

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

12"9" 6" 3" 0 1'

1 1/2" = 1'-0"

2' 0 2' 4' 6'

3/8" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURE
RESTROOM ACCESSORIES

FT LAUDERDALE (INTERNATIONAL) FL

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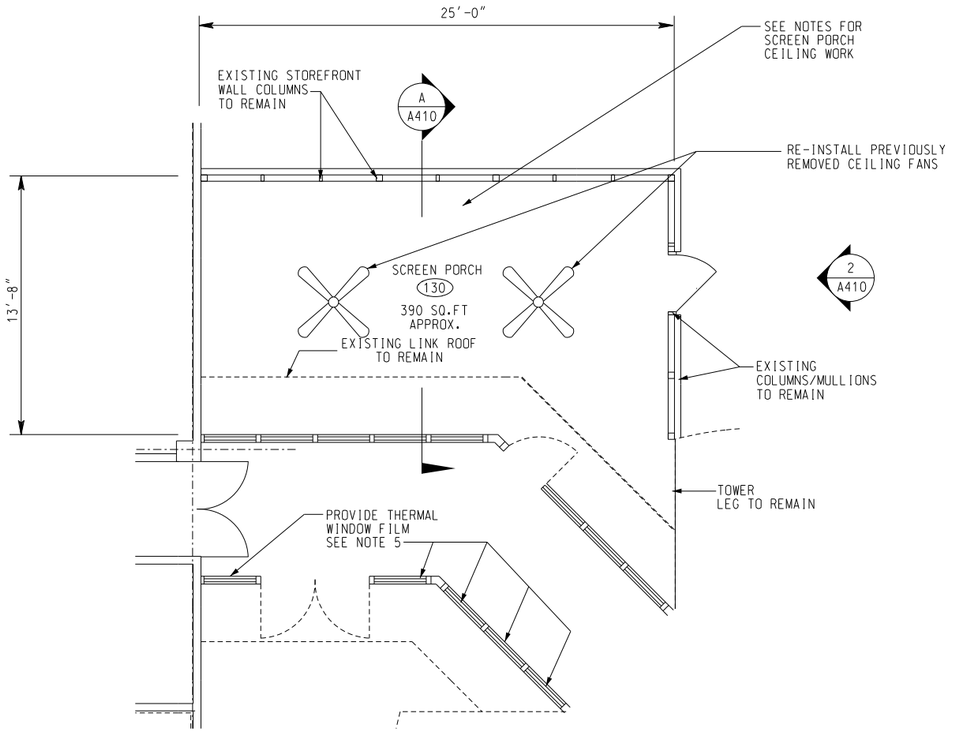
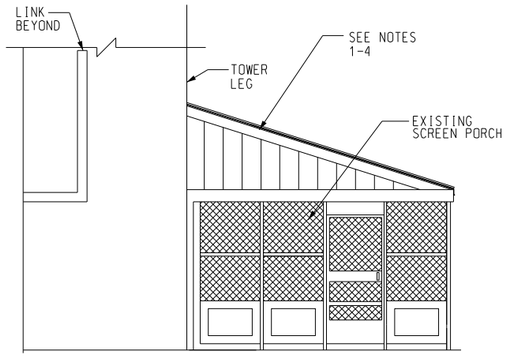
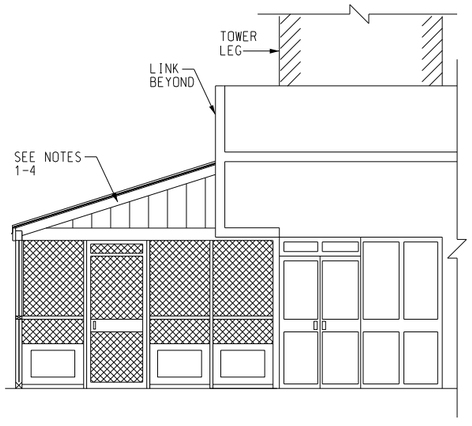


1 A410 SCREEN PORCH FLOOR PLAN
SCALE: 1/4" = 1' - 0"



2 A410 ELEVATION
SCALE: 1/4" = 1' - 0"



A A410 SECTION
SCALE: 1/4" = 1' - 0"

NOTES

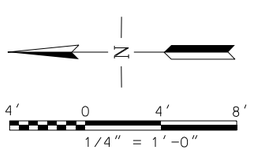
1. REMOVE EXISTING PLYWOOD CEILING. CLEAN WOOD STRUCTURE APPLY BONDING PRIME, APPLY INTUMESCENT PAINT, ALLOW TO DRY FOR 24 HOURS. APPLY TOP COAT PAINT.
2. INSTALL NEW EXTERIOR GYPSUM CEILING BOARD DIRECTLY TO WOOD FRAMING APPLY PRIME, INTUMESCENT PAINT ALLOW TO DRY FOR 24 HOURS. APPLY TOP COAT PAINT.
3. EXTERIOR GYPSUM BOARD KNOWN ACCEPTABLE SOURCE:

   "USG"
   USG 5/8" FIRECODE "C" CORE SHEETROCK BRAND EXTERIOR GYPSUM CEILING BOARD.
   OR APPROVED EQUAL
4. INTUMESCENT PAINT KNOWN ACCEPTABLE SOURCE:

   "CONTEGO"
   CONTEGO INTERNATIONAL
   OR APPROVED EQUAL
5. WINDOW FILM KNOWN ACCEPTABLE SOURCE:

   "THERMAL WINDOW FILM"
   ARC WINDOW FILM
   OR APPROVED EQUAL

   WINDOW FILM TO BE INSTALLED ON THE INSIDE OF THE GLASS, AT THE LINK'S WEST WALL.



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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURE
SCREENED-IN PORCH

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
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DESIGNED GMR
DRAWN GMR
CHECKED NXE
ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN 31, 2020 JCN 1508912
DRAWING NO FLL-D-TRACO-A410 REV

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	FINISH	HEIGHT	
100	VESTIBULE	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
101	CORRIDOR	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
102	PLAYBACK ROOM	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
103	ASST AT	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
104	TRAINING/STORAGE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
105	AF/AT ADMIN STORAGE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
106	EPDS	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
107	AT DEPUTY	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
108	AT MANAGER	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
109	SECRETARY	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
110	AF SSC	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
111	RADAR COORDINATOR	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
112	NAV/COM COORDINATOR	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
113	MECHANICAL ROOM	-	-	-	-	-	-	-	-	
114	CORRIDOR	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
115	AF STORAGE	-	-	-	-	-	-	-	-	
116 117	CONFERENCE ROOM	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
118	CORRIDOR	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
119	EQUIPMENT ROOM	-	-	-	-	-	-	-	-	
120	STORAGE	-	-	-	-	-	-	-	-	
121	TELCO	-	-	-	-	-	-	-	-	
122	CORRIDOR	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
123	JANITOR	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
124	CORRIDOR	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
125	BREAKROOM	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
126	LOCKER ROOM	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
127	MEN'S ROOM	CT-1	CT-2	CT-3	CT-3	CT-3	CT-3	GYP/P-2	9'-0"	
128	WOMEN'S ROOM	CT-1	CT-2	CT-3	CT-3	CT-3	CT-3	GYP/P-2	9'-0"	
128A	ACCESSIBLE ROOM	CT-1	CT-2	CT-3	CT-3	CT-3	CT-3	GYP/P-2	9'-0"	
129	VESTIBULE	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
130	SCREEN PORCH	-	-	-	-	-	-	P-2	VARIES	SEE A410

INTERIOR COLOR SELECTIONS

CARPET (CPT)

CPT-1 INTERFACE,
STYLE: 1467802500, FOLIO II (50CM X 50CM)
COLOR: 9646 STEEL

CPT-2 FOR THE TOWER - CAB

PAINT (P)

P-1 SHERWIN WILLIAMS 6253 "OLYMPUS WHITE"

P-2 SHERWIN WILLIAMS 7006 "EXTRA WHITE"
(EXPOSED STRUCTURE ABOVE)

RUBBER BASE (RB)

RB-1 4" COVED WALL BASE COLOR EQUAL TO "ROPPE P129 DOLPHIN"

PLASTIC LAMINATE (PLAM)

PLAM-1 EQUAL TO FORMICA "7884-58 CHESTNUT WOODLINE, MATTE FINISH."

SOLID SURFACE MATERIAL (SSM)

SSM-1 EQUAL TO DUPONT CORIAN "SILT".

TOILET PARTITIONS (TP)

TP-1 KNICKERBOCKER - METROPOLITAN STYLE
FINISH: STAINLESS STEEL FINISH

CERAMIC TILE (CT)

CT-1 AMERICAN OLEAN 2"X2" UNGLAZED FLOOR TILES - GROUP 1
A24 "ALMOND" UNGLAZED.
A43 "LIGHT SMOKE" UNGLAZED.

CT-2 AMERICAN OLEAN 4-1/4" HIGH BASE CONSISTING OF 2" SQUARES OF "A43 LIGHT SMOKE" UNGLAZED

CT-3 AMERICAL OLEAN 6" X 6" GLAZED WALL TILE-
"0012 GLOSS ALMOND"

RESILIENT FLOORING (VCT) - VINYL COMPOSITE TILE

VCT-1 COLOR EQUAL TO "AZROCK VINYL ENHANCED TILE, AZTERRA AT-104 GREY ROCK."

NOTES:

1. PRIOR TO ORDERING ANY MATERIALS, PROVIDE COLOR SAMPLES, REFLECTING ALL FINISHES NOTED ABOVE, AND ANY CONTRACTOR SUBSTITUTED FINISHES, TO RE FOR APPROVAL.
2. ALL SOLID SURFACE MATERIALS SHALL BE SSM-1, UNO.
3. ALL PLASTIC LAMINATES SHALL BE PLAM-1, UNO.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

STATE OF GEORGIA
NEIL ESSER
CERTIFICATE NO. RA017024
REGISTERED ARCHITECT
01/31/2020

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WW JOB NUMBER: 219075.00

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
FINISH AND COLOR SCHEDULES

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

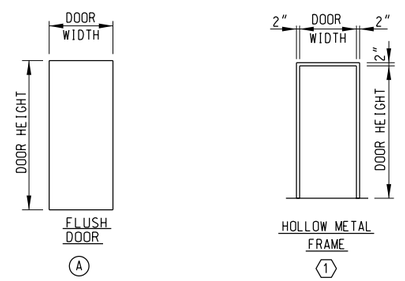
DESIGNED GMR | DRAWN GMR | CHECKED NXE
ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN 31, 2020 JCN 1508912
DRAWING NO FLL-D-TRACO-A500 REV

DOOR SCHEDULE

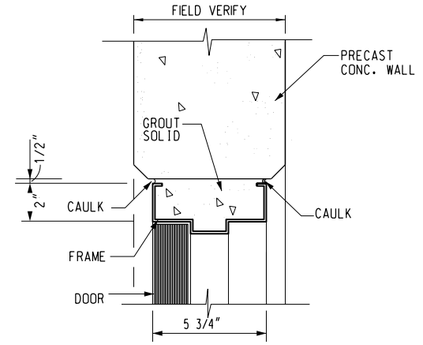
LOCATION			DOOR SCHEDULE										FRAME SCHEDULE			HARDWARE SCHEDULE								SECURITY DOOR MATRIX									SIGN			
LEVEL/FLOOR	DOOR #	DOOR LOCATION	REMOVE EXIST AND INSTALL NEW DOOR AND FRAME	INSTALL NEW DOOR	NEW HARDWARE ONLY	WIDTH	HEIGHT	THICK.	MATERIAL	FINISH	TYPE	TYPE	MATERIAL	FINISH	PAIR HINGES TOTAL	DOOR CLOSER	WEATHER STRIP	LOCK SET TYPE	EXT. RATED	FIRE RATED			ELECTRONIC CARD READER	MAGNETIC CONTACT	ELECTRONIC STRIKE	GRADE-1 BEST CORE	LATCH GUARD	ASTRAGAL	PERIMETER SEAL	RAIN DRIP	SWEEP	EMERGENCY EXIT SIGN	NOT AN EXIT SIGN	EXIT SIGN	FAA WARNING SIGN
GROUND	B-4	STAIRS			●	-	-	-	-	-	-	-	-	-	-	●	-	P	-	-			-	-	-	YES	-	-	-	-	-	-	-	-	-
SECOND	C-2	CABLE CHASE	●			3'-0"	7'-0"	1 3/4"	STL	PAINT	(A)	⟨1⟩	STL	PAINT	1.5	●	●	D	●	90			-	-	-	YES	YES	-	●	●	●	-	-	-	-
	C-3	CABLE CHASE	●			3'-0"	7'-0"	1 3/4"	STL	PAINT	(A)	⟨1⟩	STL	PAINT	1.5	●	●	D	●	90			-	-	-	YES	YES	-	●	●	●	-	-	-	-
	C-4	STAIRS	●			3'-0"	7'-0"	1 3/4"	STL	PAINT	(A)	⟨1⟩	STL	PAINT	1.5	●	●	P	●	90			-	-	-	YES	YES	-	●	●	●	-	-	-	-
SUBJUNCTION	SJ1-2	CABLE CHASE			●	-	-	-	-	-	-	-	-	-	-	●	-	D	-	-			-	-	-	YES	-	-	-	-	-	-	-	-	-
JUNCTION	J-1	ELEVATOR MACHINE			●	-	-	-	-	-	-	-	-	-	-	●	-	D	-	-			-	-	-	YES	-	-	-	-	-	-	-	-	-

DOOR HARDWARE DESCRIPTION

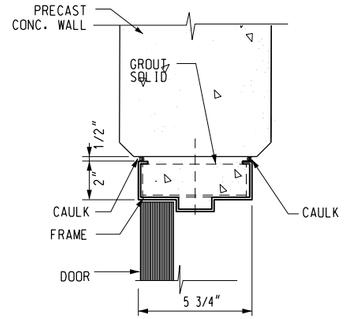
DESG.	FUNCTION	DESCRIPTION	OUTSIDE LEVER		INSIDE LEVER	
			LOCKED BY	UNLOCKED BY	LOCKED BY	UNLOCKED BY
● P	PASSAGE	TURNING THE INSIDE LEVER, OR ROTATING THE OUTSIDE LEVER	CANNOT BE LOCKED	ALWAYS UNLOCKED	CANNOT BE LOCKED	ALWAYS UNLOCKED
● D	STOREROOM	TURNING THE KEY IN THE OUTSIDE LEVER, OR ROTATING THE INSIDE LEVER	ALWAYS FIXED	CANNOT BE UNLOCKED	CANNOT BE LOCKED	ALWAYS UNLOCKED



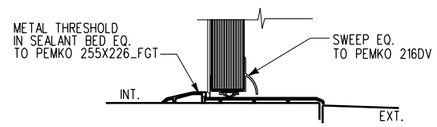
1 A505 DOOR AND FRAME TYPE
NOT TO SCALE



1 A505 DOOR HEAD
SCALE: 3" = 1'-0"



2 A505 JAMB DET.
SCALE: 3" = 1'-0"



3 A505 EXTERIOR THRESHOLD
SCALE: 3" = 1'-0"

12" 9" 6" 3" 0
3"=1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

STATE OF GEORGIA
NEIL ESSER
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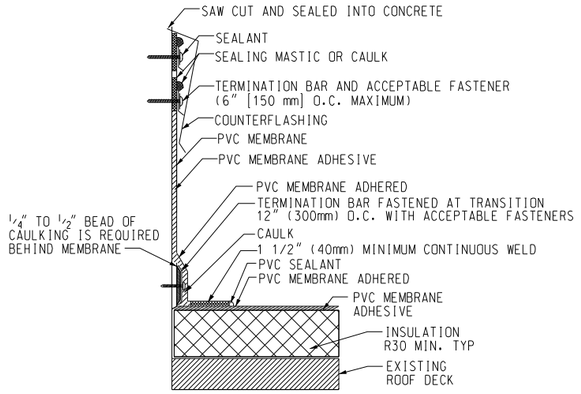
WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
DOOR TYPES, SCHEDULE AND DETAILS

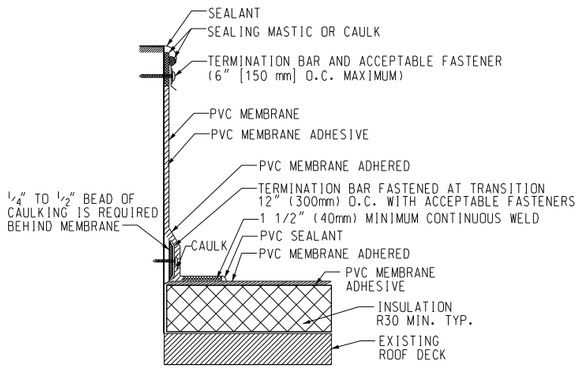
FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
	DESIGNED GMR / DRAWN GMR / CHECKED NXE	ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER
	DATE JAN. 31, 2020	JCN 1508912
	DRAWING NO. FLL-D-TRACO-A505	REV



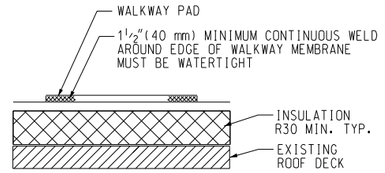
1 A610 VERTICAL FLASHING DETAIL

SCALE: NONE



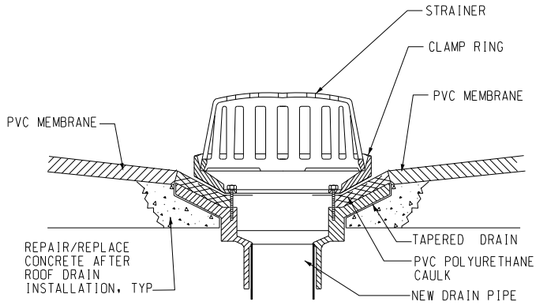
2 A610 OUTSIDE FLASHING DETAIL

SCALE: NONE



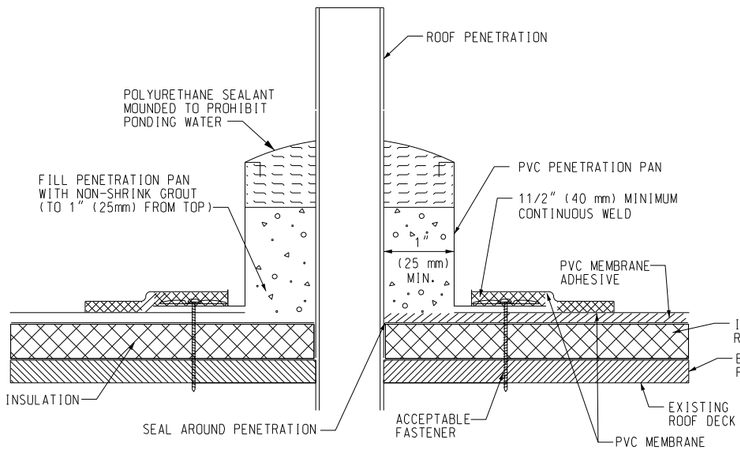
3 A610 WALKWAY PAD DETAIL

SCALE: NONE



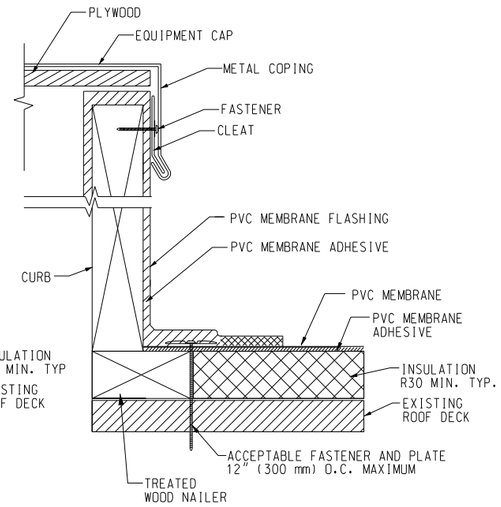
4 A610 DRAIN DETAIL

SCALE: NONE



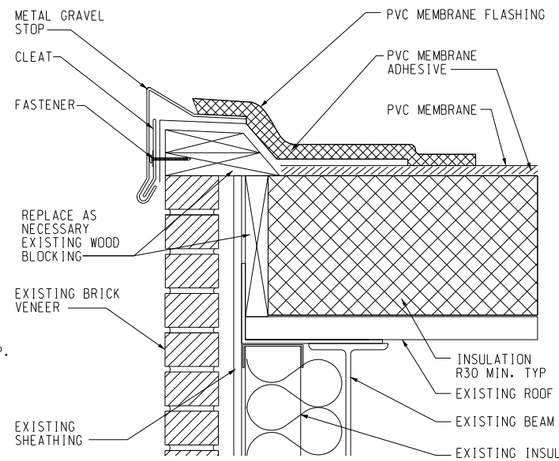
5 A610 PITCH POCKET DETAIL

SCALE: NONE



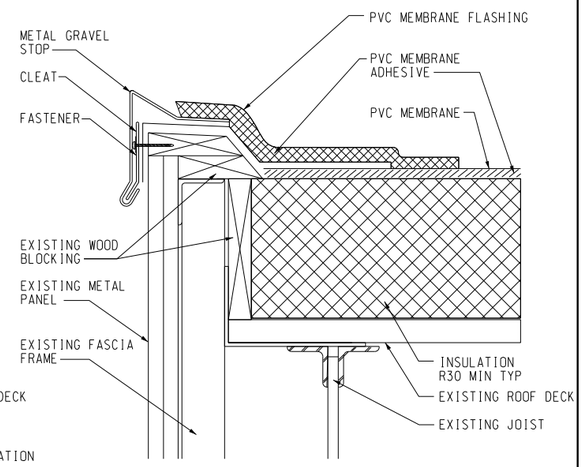
6 A610 CURB CAP DETAIL

SCALE: NONE



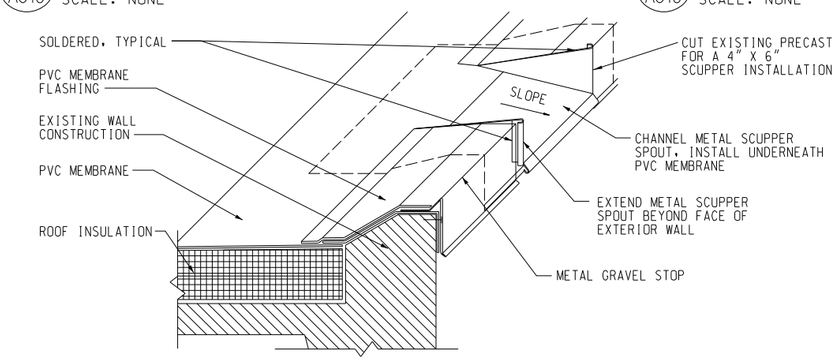
7 A610 ROOF EDGE DETAIL 1

SCALE: NONE



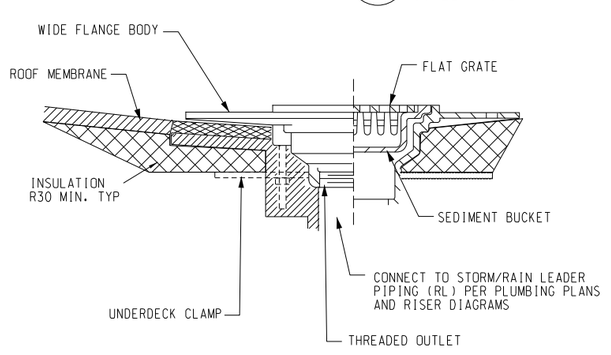
8 A610 ROOF EDGE DETAIL 2

SCALE: NONE



9 A610 OVERFLOW SCUPPER DETAIL

SCALE: NONE



10 A610 DRAIN AND SUMP DETAIL

SCALE: NONE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

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STATE OF GEORGIA
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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURE
ROOF DETAILS

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED GMR
DRAWN GMR
CHECKED NXE
ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN 31, 2020
JCN 1508912
DRAWING NO FLL-D-TRACO- A610
REV

HEATING, VENTILATION & AIR CONDITIONING LEGEND

XXX / XXX	DETAIL NUMBER / DRAWING WHERE SHOWN	HWR	HEATING HOT WATER RETURN LINE	HUM	HUMIDIFIER
T	ADJUSTABLE THERMOSTAT WITH ALPHANUMERIC DISPLAY	M	MOTOR OPERATED DAMPER	FE	FLOW ELEMENT, DUCT-MOUNTED
	EQUIPMENT (REFER TO SCHEDULE)	FM	FLOW METER	HT	HUMIDITY TRANSMITTER
00x00	DUCT SIZE - FIRST FIGURE IS SIDE SHOWN		FLEXIBLE PIPE CONNECTION	TI	THERMOMETER, AVERAGING
	LINED DUCTWORK		FLEXIBLE DUCT CONNECTION	TI	THERMOMETER, NON-AVERAGING
X CFM	CEILING DIFFUSER FOUR WAY BLOW U.N.O. (REFER TO SCHEDULE)	C / C CC	CHILLED WATER, COOLING COIL		
X	RETURN AIR GRILLE (REFER TO SCHEDULE)	D / X CC	DIRECT EXPANSION, COOLING COIL	TSL	THERMOSTAT, LOW-TEMPERATURE PROTECTION
	LOUVER AND SCREEN REFER TO PLANS FOR SIZE	ED / H HC	ELECTRIC DUCT HEATER, HEATING COIL		
	CONDENSATE DRAIN TRAP (SEE DETAILS)	E / H HC	ELECTRIC, HEATING COIL	DPS	DIFFERENTIAL-PRESSURE SWITCH
	DUCT SECTION POSITIVE PRESSURE	H / C HC	HOT WATER, HEATING COIL	DPI	DIFFERENTIAL-PRESSURE INDICATOR
	DUCT SECTION NEGATIVE PRESSURE	SF	SUPPLY FAN	DA	DAMPER ACTUATOR
	SPIN-IN FITTING WITH MANUAL DAMPER/FLEX. DUCT	H	HUMIDISTAT		
	DUCT SECTION ROUND	HS	HYDROGEN SENSOR		Y-STRAINER WITH BLOW-OFF VALVE AND COUPLING
MVD OR MD	MANUAL VOLUME DAMPER	CH	CHILLER		Y-STRAINER
M FSD	COMBINATION FIRE AND SMOKE DAMPER	AD	AUTOMATIC DAMPER PARALLEL BLADE WITH SEALS	M	3-WAY CONTROL VALVE WITH MOTOR OPERATOR
FD OR FD	FIRE DAMPER	TT	TEMPERATURE TRANSMITTER DUCT-MOUNTED	M	2-WAY CONTROL VALVE WITH MOTOR OPERATOR
SD	DUCT SMOKE DETECTOR				GATE VALVE
	90° LOW PRESSURE ELBOW (PROVIDE DOUBLE THICKNESS TURNING VANE)	TT	TEMPERATURE TRANSMITTER, DUCT-MOUNTED, AVERAGING		GLOBE VALVE
	EXISTING WORK AS SHOWN LIGHT SOLID LINE				CHECK VALVE
	EXISTING WORK SHALL BE REMOVED AS SHOWN CROSS-HATCHED	SMK	SMOKE DETECTOR, DUCT-MOUNTED		DOUBLE CHECK BACKFLOW PREVENTER VALVE
	INTERFACING POINT BETWEEN EXISTING WORK TO REMAIN AND EXISTING WORK TO BE REMOVED				PRESSURE REDUCING VALVE
	NEW WORK SHOWN AS HEAVY SOLID LINE	PT	PRESSURE TRANSMITTER		COMBINATION BALANCING AND FLOW MEASURING DEVICE
	CONNECTING POINT BETWEEN NEW WORK AND EXISTING WORK	PI	PRESSURE INDICATOR (GAUGE)		UNION
	ACTUATOR ELECTRIC OR ELECTRONIC	VSD	VARIABLE SPEED DRIVE		EXPANSION VALVE, THERMOSTATIC
	SQUARE-TO-ROUND TRANSITION	VFD	VARIABLE FREQUENCY DRIVE	S	SOLENOID VALVE
CHWS	CHILLED WATER SUPPLY LINE	AFMS	AIR FLOW MEASURING STATION	BLR	BOILER
CHWR	CHILLED WATER RETURN LINE	DPT	DIFFERENTIAL - PRESSURE TRANSMITTER	HE	PLATE AND FRAME HEAT EXCHANGER
CW	DOMESTIC COLD WATER PIPING	CR	CURRENT RELAY	OR	EXISTING FIRE DAMPER
HWS	HEATING HOT WATER SUPPLY LINE	FLTR	FILTER		
BAS - BUILDING AUTOMATION SYSTEM					

HVAC GENERAL NOTES

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS (DO NOT SCALE FOR LOCATIONS). IT IS INTENDED THAT A COMPLETE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM (HVAC) BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS. THE CONTRACTOR SHALL CAREFULLY REVIEW ALL THE CONTRACT DOCUMENTS AND COORDINATE BETWEEN ALL TRADES PRIOR TO SUBMITTING SHOP DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL SIZES, MATERIALS, AND TEMPERATURE AND PRESSURE RATINGS BEFORE ORDERING OR INSTALLING ANY MATERIALS OR EQUIPMENT. THE CONTRACTOR SHALL PREPARE INSTALLATION INSTRUCTIONS AND FABRICATION DRAWINGS PRIOR TO ACTUAL INSTALLATION.
2. REFER TO EACH DRAWING FOR NOTES SPECIFIC TO THAT DRAWING SHEET.
3. THIS PROJECT IS A RENOVATION OF AN EXISTING FACILITY, AND PREVIOUS RECORD DRAWINGS FORM THE BASIS FOR MANY OF THESE DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR PURCHASE OF EQUIPMENT, MATERIALS, AND ASSEMBLIES. THERE MAY EXIST FIELD CONDITIONS WHICH DIFFER FROM THOSE SHOWN ON THESE DRAWINGS. ANY SUCH DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE FAA CONTRACTING OFFICER REPRESENTATIVE FOR RESOLUTION BEFORE PROCEEDING WITH ANY CONSTRUCTION, FABRICATION, OR MATERIAL/EQUIPMENT PURCHASE WHICH WOULD BE UNUSABLE UNDER THOSE CIRCUMSTANCES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF CONTRACTOR'S PERSONNEL EMPLOYED ON THIS PROJECT AND IN PARTICULAR, WHEN WORKING IN CONFINED SPACES. THE CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
5. COORDINATE THE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH DIVISION 26 (ELECTRICAL CONTRACT DOCUMENTS) PRIOR TO ORDERING. PROVIDE WRITTEN VERIFICATION OF COORDINATION WITH DIVISION 26 PRIOR TO INSTALLATION OF EQUIPMENT.
6. COORDINATE DUCTWORK AND PIPING WITH ELECTRICAL, STRUCTURAL, AND PLUMBING TRADES. MAKE OFFSETS AND TRANSITIONS SO AS NOT TO INTERFERE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE GOVERNMENT.
7. ALL NEW CONTROL WIRING LOCATED ABOVE A SUSPENDED CEILING SHALL BE CONTAINED IN CONDUIT OR APPROVED CABLE TRAY. EXISTING CONDUIT MAY BE USED BUT ALL NEW WIRING IS REQUIRED. THE FAA CONTRACTING OFFICER REPRESENTATIVE SHALL APPROVE ALL EXISTING CONDUIT TO BE REUSED. ALL WIRING, PIPING, AND OTHER EQUIPMENT LOCATED IN AN AIR PLENUM SHALL BE PLENUM RATED.
8. ALL DAMPERS, DAMPER OPERATORS, AND FANS SHALL BE ACCESSIBLE. LOCATE ALL EQUIPMENT OR APPURTENANCES IN AREAS WITH ACCESSIBLE CEILINGS. THE CONTRACTOR MAY USE ACCESS PANELS FOR THOSE AREAS NOT EASILY ACCESSIBLE. ALL ACCESS PANEL LOCATIONS SHALL BE COORDINATED WITH THE CONTRACT DOCUMENTS AND APPROVED BY THE FAA CONTRACTING OFFICER REPRESENTATIVE PRIOR TO INSTALLATION OF EQUIPMENT.
9. ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH SQUARE TO ROUND TRANSITIONS, WITH MINIMUM PRESSURE DROP AND WITHOUT LEAKS.
10. DUCT SIZES ARE SHOWN AS INSIDE CLEAR DIMENSIONS. WHERE INTERNAL INSULATION IS CALLED FOR, DIMENSIONS SHALL BE INCREASED FOR THE THICKNESS OF THE INSULATION. SEE SPECIFICATION FOR THICKNESS.
11. ALL BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE DIFFUSER INLET SERVED UNLESS NOTED OTHERWISE. FLEXIBLE DUCT TO DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 6'-0". ALL RUNOUT AND BRANCH DUCTS SHALL CONTAIN A MANUAL VOLUME DAMPER FOR BALANCING.
12. ALL DIFFUSERS SHALL HAVE FOUR-WAY BLOW UNLESS NOTED OTHERWISE. ADJUST ALL DIFFUSERS INSTALLED IN CORRIDORS OR WITHIN 3 FEET OF A WALL TO PROVIDE TWO-WAY OR THREE-WAY BLOW AWAY FROM OR PARALLEL TO WALLS.
13. ALL OPEN ENDED DUCTS SHALL BE REINFORCED WITH STEEL ANGLES (1-1/2" X 1-1/2" X 1/8") BOLTED OR RIVETED 6" ON CENTER (MAXIMUM) ALL AROUND THE PERIMETER OF THE DUCT MINIMUM 2 PER SIDE.
14. PROVIDE THERMOSTATS AND/OR HUMIDISTATS WHERE SHOWN ON THE DRAWINGS. MOUNT DEVICES CENTERED 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
15. CONDENSATE DRAIN LINES ROUTED HORIZONTALLY SHALL SLOPE 1/8" PER FOOT DOWN IN THE DIRECTION OF FLOW. WHERE LOCATED IN A RETURN AIR PLENUM, THE CONDENSATE PIPING SHALL BE PLENUM-RATED.
16. ALL PIPING PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOOR SLAB SHALL HAVE PIPE SLEEVES WITH FIRESTOPPING MATERIAL. CAULK ANNULAR SPACE BETWEEN PIPE AND SLEEVE. EXPOSED PIPE THROUGH WALLS SHALL HAVE ESCUTCHEONS.
17. INSTALL DUCTWORK AS HIGH AS POSSIBLE ABOVE CEILING TO AVOID CONFLICTS WITH CABLE TRAY, ETC.
18. CONTRACTOR SHALL PERFORM AIR DUCT CLEANING FOR ALL NEW DUCTWORK IN THE BASE BUILDING AND TOWER. REFER TO SPECIFICATION SECTION 23 31 13, METAL DUCTS.

SPECIAL NOTES

A. MINIMIZING HVAC EQUIPMENT DOWNTIME IS CRITICAL FOR THE PROPER OPERATION OF FAA EQUIPMENT. COORDINATE PHASING WITH THE FAA CONTRACTING OFFICER REPRESENTATIVE (COR), FOR MEASURES TO BE TAKEN PRIOR TO EQUIPMENT SHUT DOWN. THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING AND/OR COOLING SYSTEM DURING CONSTRUCTION AS REQUIRED TO ALL SPACES. THE TEMPORARY EQUIPMENT SHALL BE CAPABLE OF MAINTAINING SPACE TEMPERATURE REGARDLESS OF THE TIME OF YEAR WORK IS ACCOMPLISHED. THE FAA CONTRACTING OFFICER REPRESENTATIVE SHALL APPROVE THE TEMPORARY HEATING AND/OR COOLING SYSTEM TO BE USED TO MAINTAIN SPACE TEMPERATURE. ALL CRITICAL SPACES SHALL BE MAINTAINED AT 73°F, ALL OTHERS SHALL BE MAINTAINED @ 75°.

B. CONTRACTOR SHALL SUPPLY EMERGENCY SERVICE RESPONSE FOR TEMPORARY SYSTEMS. CONTRACTOR SHALL GUARANTEE 4 HOUR RESPONSE TIME FROM NOTIFICATION TO ARRIVAL OF SERVICE PERSONNEL.

C. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL ELECTRONIC EQUIPMENT IN EQUIPMENT ROOMS, TELCO, TRACON, AND TOWER CAB WITH DROP CLOTH OR OTHER FAA COR APPROVED METHOD. THE PROTECTION SHALL BE REMOVED AND CLEANED AT THE END OF EACH WORK SHIFT.

D. ALL WORK IN THE TRACON AND TOWER CAB SHALL BE PERFORMED BETWEEN 11:00 PM AND 4:30 AM OR HOURS NEGOTIATED WITH LOCAL FAA PERSONNEL AND CONTRACTING OFFICER REPRESENTATIVE DURING THE PRE-BID CONFERENCE.

E. ALL WORK IN OCCUPIED AREAS, INCLUDING WORK ON TERMINAL UNITS, DUCTWORK, AND CEILING REPLACEMENT, SHALL BE PERFORMED BETWEEN 4:00 PM AND 7:00 AM OR HOURS NEGOTIATED WITH LOCAL FAA PERSONNEL AND CONTRACTING OFFICER REPRESENTATIVE DURING THE PRE-BID CONFERENCE.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 01/31/2020

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WW JOB NUMBER: 219075.00

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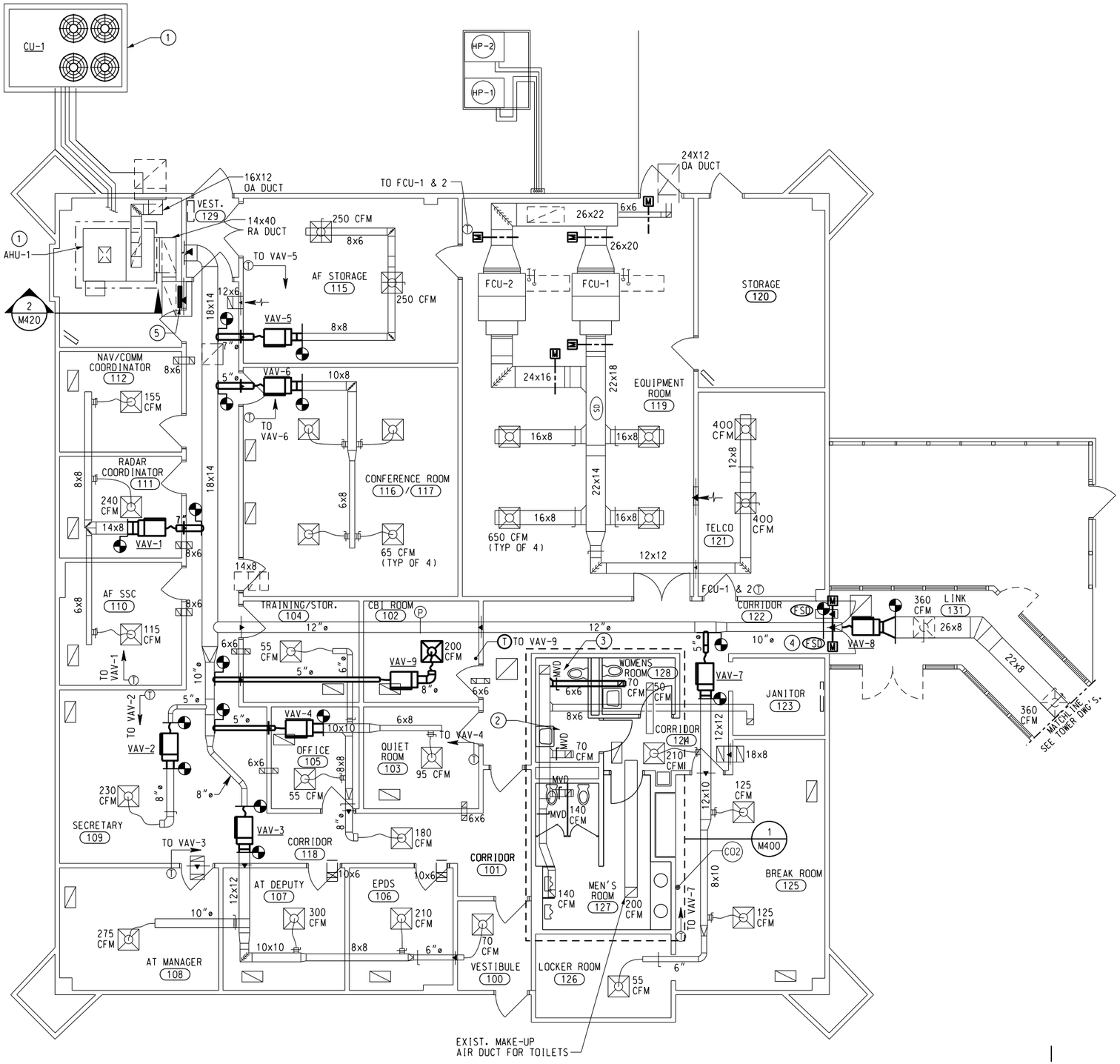
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS MECHANICAL HVAC LEGEND AND GENERAL NOTES

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY		APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER		APPROVER'S TITLE - MANAGER
	DESIGNED JJS	ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN. 31, 2020 JCN 1508912
	DRAWN CRK		DRAWING NO FLL-D-TRACO-M000 REV
	CHECKED JJS		



1 / M100 BASE BUILDING HVAC FLOOR PLAN - HVAC

SCALE: 3/16" = 1' - 0"

N

4' 0 4' 8' 12'

3/16" = 1'-0"

NOTES

1. AHU-1 AND CU-1 EXISTING TO REMAIN. INTEGRATE WITH NEW DDC SYSTEM.
2. PROVIDE MVD'S AT BATHROOM GRILLE TAKEOFFS AS SHOWN ON PLANS. PROVIDE ACCESS DOOR BENEATH IF ABOVE HARD CEILING IN LIEU OF MUD'S AT TAKEOFFS, DAMPERS AT EACH EXHAUST GRILLE ARE ACCEPTABLE.
3. ADD TAKE-OFF WITH MVD FOR EXHAUST IN WOMEN'S RESTROOM.
4. REPLACE FIRE-SMOKE DAMPER. COORDINATE POWER WITH ELECTRICAL CONTRACTOR. BOTH SUPPLY AND RETURN AIR DAMPER SHALL BE REPLACED (FSD-1, FSD-2). SEE SCHEDULE ON M500 FOR DETAILS.
5. REPLACE DDC CONTROL PANEL. COORDINATE POWER WITH ELECTRICAL.

GENERAL

A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN IS LIGHT SOLID LINE.

B. CONTRACTOR SHALL PERFORM AIR FLOW TEST AND REBALANCE ALL EXISTING AND NEW AIR DEVICES TO AIR FLOW INDICATED.

C. PROVIDE NEW AIR TERMINAL UNITS (VAV), WALL MOUNTED THERMOSTATS AS INDICATED, AND ASSOCIATED CONTROLS.

D. WHERE NEW CONNECTION TO EXISTING IS INDICATED, THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND EXACT LOCATION OF THE EXISTING WORK AT THE POINT OF CONNECTION. NEW DUCT AND PIPE SIZE SHALL MATCH EXISTING.

E. ALL NEW EXPOSED DUCTWORK SHALL BE INSULATED DOUBLE WALL DUCT AS PER SPECIFICATIONS, UNLESS OTHERWISE NOTED.

F. SEE DRAWING TRACO-M000 FOR HVAC LEGEND, GENERAL NOTES, AND SPECIAL NOTES.

G. WHERE FIRE OR FIRE/SMOKE DAMPERS ARE REMOVED IN CONJUNCTION WITH THIS WORK, THE REMOVED DAMPER SHALL BE REPLACED WITH THE SAME TYPE, RATING AND SHALL BE COORDINATED WITH THE FIRE ALARM AND ELECTRICAL CONTRACTORS.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

GEORGIA REGISTERED 7/31/2020 No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH

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WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
BASE BUILDING FLOOR PLAN - HVAC

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
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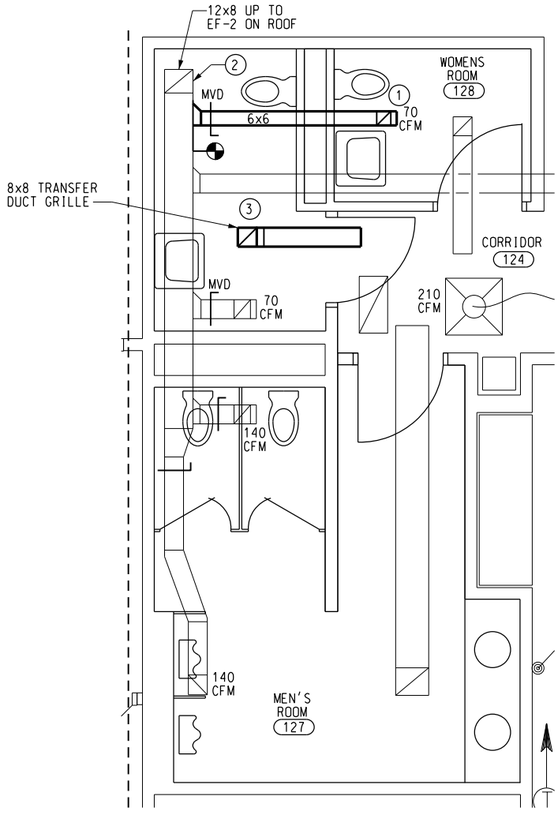
	CHECKED JJS	DRAWING NO FLL-D-TRACO-M100 REV



1 M400 ENLARGED RESTROOM - HVAC PLAN

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

NOTES

1. PROVIDE NEW RAG. MODEL BASIS OF DESIGN SHALL BE TITUS, 45F WITH A 6x6 NECK.
2. SEE DETAIL 4/M600 FOR INSTALLATION OF EF-2.
3. PROVIDE NEW TRANSFER GRILLE. MODEL BASIS OF DESIGN SHALL BE TITUS, 45F WITH 8x8 NECK.

GENERAL

A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN IS LIGHT SOLID LINE.

B. CONTRACTOR SHALL PERFORM AIR FLOW TEST AND REBALANCE ALL EXISTING AND NEW AIR DEVICES TO AIR FLOW INDICATED.

C. WHERE NEW CONNECTION TO EXISTING IS INDICATED, THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND EXACT LOCATION OF THE EXISTING WORK AT THE POINT OF CONNECTION. NEW DUCT AND PIPE SIZE SHALL MATCH EXISTING.

D. SEE DRAWING TRACO-M000 FOR HVAC LEGEND, GENERAL NOTES, AND SPECIAL NOTES.

N

2' 0 2' 4' 6'

3/8" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
ENLARGED RESTROOM HVAC PLAN

FT LAUDERDALE (INTERNATIONAL) FL

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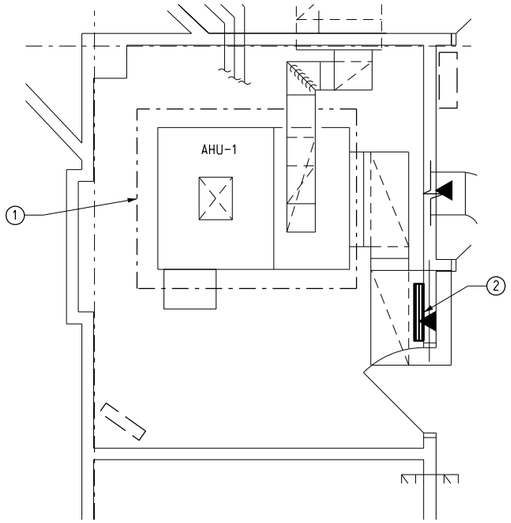
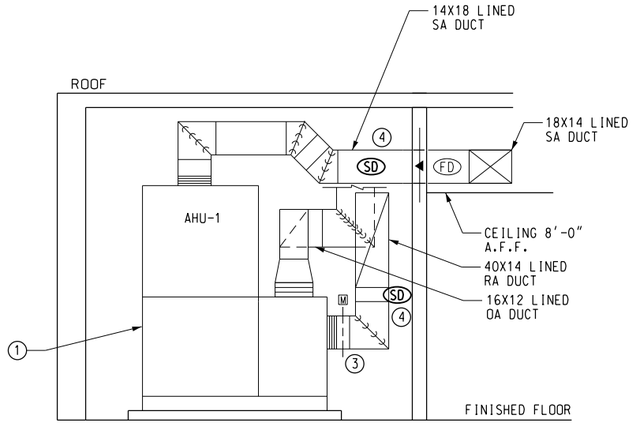
	CHECKED JJS		



1 M420 ENLARGED MECHANICAL ROOM
SCALE: 3/8" = 1' - 0"



2 M420 AHU-1 SECTION
SCALE: 3/8" = 1' - 0"

NOTES

1. EXISTING AIR HANDLING UNIT TO REMAIN. INTEGRATE WITH NEW DDC SYSTEM.
2. NEW DDC CONTROL PANEL.
3. ~~PROVIDE NEW MOTOR OPERATED DAMPER (MOD) AND~~ INTEGRATE WITH NEW DDC SYSTEM.
4. PROVIDE NEW DUCT-MOUNTED SMOKE DETECTORS, INTEGRATED WITH NEW DDC SYSTEM TO STOP AHU-1 SUPPLY FAN UPON DETECTION. COORDINATE WITH FIRE PROTECTION TO INTERLOCK TO FIRE ALARM CONTROL PANEL.

GENERAL

A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK IS SHOWN LIGHT SOLID LINE.

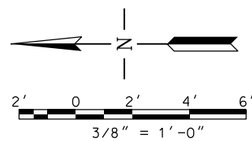
B. CONTRACTOR SHALL PERFORM AIR FLOW TEST AND REBALANCE ALL EXISTING AND NEW AIR DEVICES TO AIR FLOW INDICATED.

D. WHERE NEW CONNECTION TO EXISTING IS INDICATED, THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND EXACT LOCATION OF THE EXISTING WORK AT THE POINT OF CONNECTION. NEW DUCT AND PIPE SIZE SHALL MATCH EXISTING.

E. ALL NEW EXPOSED DUCTWORK SHALL BE INSULATED DOUBLE WALL DUCT AS PER SPECIFICATIONS, UNLESS OTHERWISE NOTED.

F. SEE DRAWING TRACO-M000 FOR HVAC LEGEND, GENERAL NOTES, AND SPECIAL NOTES.

G. WHERE FIRE OR FIRE/SMOKE DAMPERS ARE REMOVED IN CONJUNCTION WITH THIS WORK, THE REMOVED DAMPER SHALL BE REPLACED WITH THE SAME TYPE, RATING AND SHALL BE COORDINATED WITH THE FIRE ALARM AND ELECTRICAL CONTRACTORS.



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
ENLARGED MECHANICAL ROOM & SECTION

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED	MDS	ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN. 31, 2020 JCN 1508912
DRAWN	CRK		DRAWING NO FLL-D-TRACO-M420 REV
CHECKED	MDS		

EXISTING AIR HANDLING UNIT SCHEDULE

SEE NOTES (18)(19)

MARK	LOCATION	TYPE	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	E.S.P. (IN. WG.)	T.S.P. (IN. WG.)	MOTOR HP	FAN RPM	TOTAL COOLING CAP. (MBH)	SENSIBLE COOLING CAP. (MBH)	EAT (°F)		LAT (°F)		COIL APD (IN WG)	VOLTAGE/PHASE/Hz	BASIS OF DESIGN	REMARKS
											DB	WB	DB	WB				
AHU-1	BASE BUILDING MECHANICAL ROOM	SPLIT-DX	4200	1440	3.5	5.86	7.5	2535	274	179	85	69	46.1	46.1	1.39	208/3/60	YORK - XTI-42x60	(1)(2)(3)(4)(6)(7)(8)(9)(10)(11)(12)(13)(14)(15)(16)

EXISTING AIR COOLED CONDENSING UNIT SCHEDULE

SEE NOTE (18)

MARK	LOCATION	SERVES	COOLING CAPACITY (TONS)	MIN. NO. REFRIG. CIRCUITS	MINIMUM SEER	COMPRESSOR DATA				CONDENSER DATA		UNIT AMPACITY	ELECTRIC DATA			MAKE AND MODEL	REMARKS
						QTY.	REFRIG. TYPE	NO. OF STEPS	SATB SUCT. TEMP (°F)	COND. FANS QTY.	AMBIENT TEMP °F	AMPS	VOLTS	PH	HZ		
CU-1	380	BASE BUILDING	30	2	9.7	4	R-410A	2	40	4	95	129.5	208	3	60	YORK-J30YD	(1)(2)(3)(4)(5)(6)(8)(13)(15)(17)

NOTES ARE FOR AHU AND CU

(1) MAINTAIN MANUFACTURER'S RECOMMEND CLEARANCES FOR SERVICE AND AIRFLOW.

(2) SPLIT SYSTEM SUBMITTAL SHALL INCLUDE DATA ON LINESET LENGTH LIMITATIONS AND DE-RATING VALUES THEREIN.

(3) SELECTIONS SHALL BE BASED ON CAPACITIES AND NOT NOMINAL TONNAGES LISTED FOR REFERENCE ONLY.

(4) COOLING CAPACITIES BASED ON 95 DEGREE AMBIENT AIR TEMPERATURE, 85 DEGREES DB/EAT, AND 69 DEGREES WB EAT.

(5) HEAT PUMP SHALL BE PROVIDED WITH NECESSARY KIT AND ACCESSORIES FOR LOW -AMBIENT COOLING OPERATION.

(6) MOUNT INDOOR UNIT PER FEMA SEISMIC REQUIREMENTS.

(7) PROVIDE FIELD-POWERED CONVENIENCE OUTLET AT THE CONDENSING UNIT.

(8) PROVIDE SMOKE DETECTOR IN AHU SUPPLY AND RETURN DUCTS. SMOKE DETECTORS SHALL BE INTERLOCKED TO FIRE PROTECTION CONTROLS. CONTRACTOR SHALL PROVIDE AND COORDINATE WITH FIRE PROTECTION CONTRACTOR.

(9) PROVIDE WITH THERMOSTAT/HUMIDISTAT TO BE INTERLOCKED WITH DDC SYSTEM. MOUNT THERMOSTAT MIN. 48" AFF. THERMOSTAT/HUMIDISTAT SHALL BE PASSWORD PROTECTED OR TAMPER-PROOF. SEE CONTROLS DRAWINGS FOR SETTINGS.

(10) PROVIDE THERMOSTATIC EXPANSION VALVE.

(11) PROVIDE WITH CONDENSATE OVERFLOW SWITCH. SWITCH SHALL SHUT DOWN UNIT AND INDICATE ALARM IN DDC. SEE CONTROL DRAWINGS.

(12) PROVIDE WITH CONDENSATE PUMP CAPABLE OF 10 FT. HD AND 25 GPH, BOD: LITTLE GIANT VCMA-15UL.

(13) PROVIDE SECONDARY CORROSION RESISTANT DRAIN PAN.

(14) SHOP DRAWINGS SHALL INCLUDE COMBINATION RATINGS.

(15) PROVIDE (MODINE ELECTROFIN E-COAT) ON CONDENSER AND EVAPORATOR COILS.

(16) UNIT SHALL BE DIRECT DRIVE WITH INTEGAL VFD.

(17) SEE ELECTRICAL FOR DISCONNECT AT CU-1.

(18) REPLACEMENT OF AHU-1 & CU-1 ARE BEING COMPLETED UNDER A SEPARATE CONTRACT AND ARE NOT A PART OF THE SCOPE OF THIS PROJECT. DATA IS PROVIDED FOR REFERENCE ONLY.

(19) PROVIDE NEW DUCT MOUNTED SMOKE DETECTORS IN SUPPLY AND RETURN DUCTS. SEE NOTE 8 FOR ADDITIONAL INFORMATION.

VARIABLE AIR VOLUME TERMINAL BOX SCHEDULE

MARK	COOLING (MAX. CFM)	COOLING (MIN. CFM)	MAX. DISCHARGE (SP IN. WG.)	INLET SIZE (IN)	HEATING (MIN. CFM)	ELECTRIC REHEAT (KW)	"STAGES"	EAT (°F)	LAT (°F)	VOLT/PH/HZ/STAGES	TITUS MODEL	REMARKS
VAV-1	510	170	0.5	7	170	2.5	2	48	95	208/1/60/1	DESV-7	(1)(2)(3)(4)(5)(6)
VAV-2	230	135	0.5	5	135	2	1	48	95	208/1/60/1	DESV-5	(1)(2)(3)(4)(5)(6)
VAV-3	855	405	0.5	8	405	6	2	48	95	208/1/60/1	DESV-8	(1)(2)(3)(4)(5)(6)
VAV-4	385	135	0.5	5	135	2	2	48	95	208/1/60/1	DESV-5	(1)(2)(3)(4)(5)(6)
VAV-5	500	270	0.5	7	270	4	1	48	95	208/1/60/1	DESV-7	(1)(2)(3)(4)(5)(6)
VAV-6	260	135	0.5	5	135	2	2	48	95	208/1/60/1	DESV-5	(1)(2)(3)(4)(5)(6)
VAV-7	515	170	0.5	5	170	2.5	1	48	95	208/1/60/1	DESV-5	(1)(2)(3)(4)(5)(6)
VAV-8	1080	605	0.5	10	605	9.0	2	48	95	208/1/60/1	DESV-10	(1)(2)(3)(4)(5)(6)
VAV-9	200	135	0.5	5	135	2	2	48	95	208/1/60/1	DESV-5	(1)(2)(3)(4)(5)(6)

(1) PROVIDE WITH FACTORY MOUNTED DDC CONTROLLERS (DDC SUPPLIED BY THE CONTROLS MANUFACTURER AND MOUNTED BY THE TERMINAL UNIT MANUFACTURER).

(2) PROVIDE DOUBLE-WALL CONSTRUCTION AND ACCESS PANEL.

(3) MAXIMUM NC LEVEL SHALL BE NC 30.

(4) HEATING CFM IS BASED ON 47-DEGREE DELTA T AND AN LAT OF 95 DEGREES.

(5) PROVIDE DIGITAL-BASED MOTOR-OPERATED VALVE.

(6) PROVIDE WITH INTERNAL NON-FUSED, DOOR INTERLOCK DISCONNECT. COORDINATE WITH ELECTRICAL.

EXHAUST FAN SCHEDULE

MARK	LOCATION	SERVES	TYPE	CFM	ESP INCH WG	FAN RPM	MAX SONES	MOTOR DATA					DRIVE	BASIS OF DESIGN (GREENHECK)	REMARKS
								HP	RPM	VOLT	PH	HZ			
EF-2	BASE BUILDING	TOILETS	ROOF CENTRIFUGAL	420	0.325	1203	5.8	1/6	1725	115	1	60	DIRECT	G-095-VG	(1)(2)(3)

(1) PROVIDE WITH FACTORY ROOF CURB, BACKDRAFT DAMPER, BIRD SCREEN AND DISCONNECT SWITCH.

(2) FAN AND CURB SHALL BE CERTIFIED MIAMI-DADE HIGH WIND RATED.

(3) PROVIDE CORROSION PROTECTION ON ALL METAL COMPONENTS INCLUDING HOUSING, WHEEL, THROAT, BACKDRAFT DAMPER AND CURB. CORROSION PROTECTION SHALL BE FACTORY COATING OF ELECTROSTATICALLY APPLIED POWDERED POLYESTER-URETHANE.

FIRE AND SMOKE DAMPER SCHEDULE

MARK	LOCATION	NORMAL SETTING	FUNCTION	TYPE
FSD-1	BASE BUILDING/LINK	NO	SA, FSD	2 POSITION, LL, FL, PB, M
FSD-2	BASE BUILDING/LINK	NO	SA, FSD	2 POSITION, LL, FL, PB, M

SA = SUPPLY AIR DUCT
NO = NORMALLY OPEN
RA = RETURN AIR DUCT
FL = FUSIBLE LINK
M = MOTORIZED

FSD = COMBINATION FIRE AND SMOKE DAMPER
LL = LOW LEAKAGE, AIRFOIL BLADE
PB = PARALLEL BLADE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

GEORGIA REGISTERED 03/31/2020 No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH

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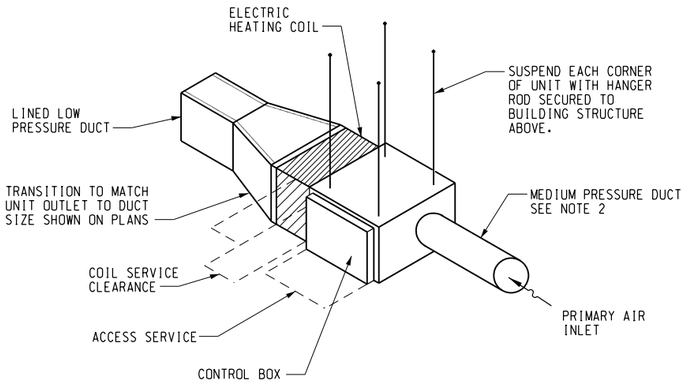
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS MECHANICAL HVAC SCHEDULES

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JJS | DRAWN CRK | CHECKED JJS | ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER | DATE JAN 31, 2020 | JCN 1508912 | DRAWING NO FLL-D-TRACO-M500 | REV

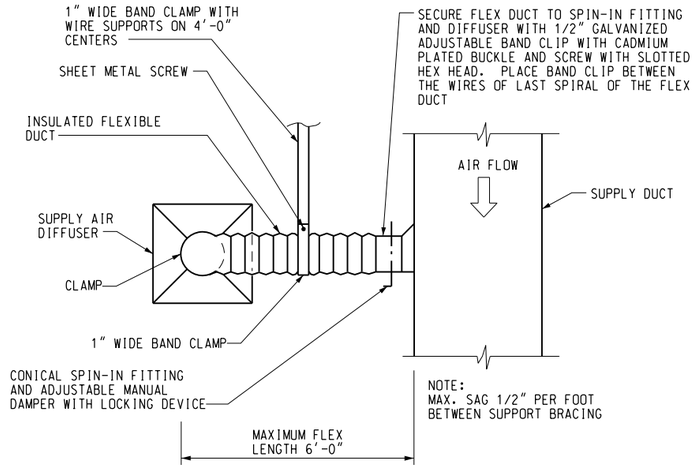


NOTES:

1. VERIFY AND PROVIDE ACCESS SPACE, COIL AND CONTROL BOX LOCATIONS WITH SELECTED MANUFACTURER.
2. MINIMUM 3 DIAMETERS OF STRAIGHT-RUN DUCTWORK TO THE INLET CONNECTION. THE STRAIGHT-RUN DUCTWORK SHALL BE THE SAME DIAMETER AS THE AIR VALVE INLET CONNECTION AS INDICATED ON THE EQUIPMENT SCHEDULE.

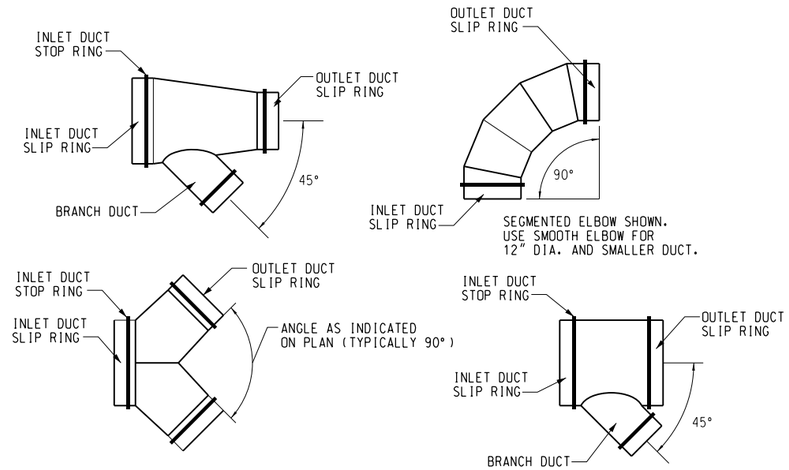
1 M600 VARIABLE AIR VOLUME TERMINAL UNIT DETAIL

NOT TO SCALE



2 M600 DIFFUSER CONNECTION DETAIL

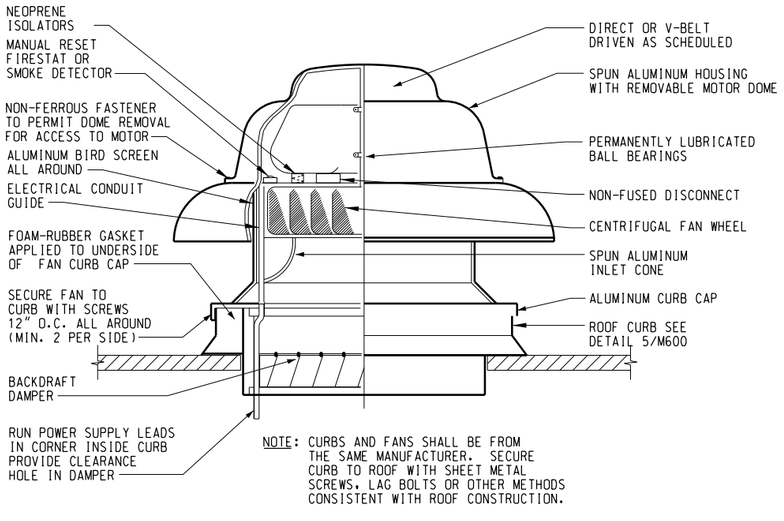
NOT TO SCALE



INSTALLATION - APPLY SEALANT TO COAT THE SLIP RING FROM THE STOP RING TO THE END. INSERT THE COATED SLIP RING INTO THE DUCT UNTIL THE DUCT CONTACTS THE STOP RING. SECURE WITH SHEETMETAL SCREWS 8" ON CENTER (MINIMUM 3 EVENLY SPACED).

3 M600 MEDIUM PRESSURE DUCT DETAIL

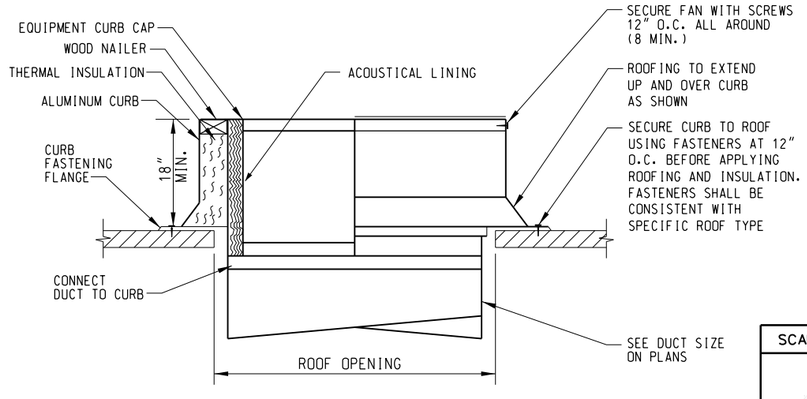
NOT TO SCALE



NOTE: CURBS AND FANS SHALL BE FROM THE SAME MANUFACTURER. SECURE CURB TO ROOF WITH SHEET METAL SCREWS, LAG BOLTS OR OTHER METHODS CONSISTENT WITH ROOF CONSTRUCTION.

4 M600 ROOF-MOUNTED CENTRIFUGAL EXHAUST FAN DETAIL

NOT TO SCALE



NOTE:
CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE NEW ROOF CURB WITH THE EXISTING ROOF OPENING FROM THE REMOVED EXISTING EXHAUST FAN TO AVOID CONFLICTS WITH DUCTWORK BELOW.

5 M600 ROOF CURB DETAIL

NOT TO SCALE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 1/31/2020

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS MECHANICAL HVAC DETAILS

FT LAUDERDALE (INTERNATIONAL) FL

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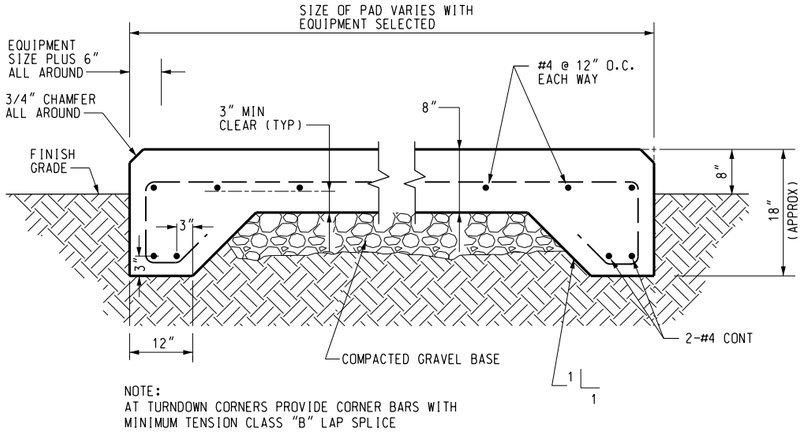
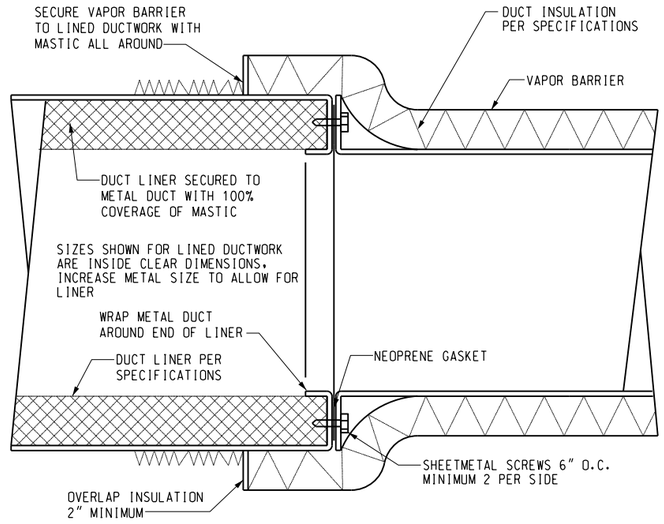


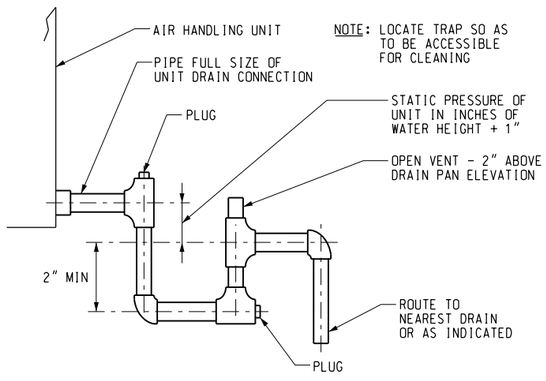
1 M601 EXTERIOR CONCRETE EQUIPMENT PAD DETAIL

NOT TO SCALE



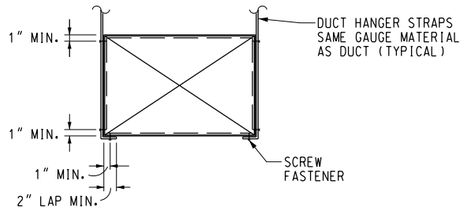
2 M601 DUCT LINER TERMINATION DETAIL

NOT TO SCALE



3 M601 CONDENSATE TRAP DETAIL

NOT TO SCALE



NOTE:
ALL DUCTWORK TO BE SUPPORTED PER LATEST EDITION OF "SMACNA HVAC DUCT CONSTRUCTION STANDARDS"

4 M601 DUCT HANGER DETAIL

NOT TO SCALE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED 31/JAN No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

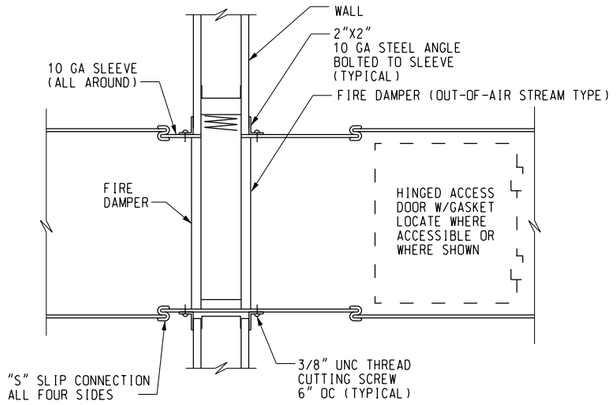
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
HVAC DETAILS

FT LAUDERDALE (INTERNATIONAL) FL

Wiley|Wilson
5901 Peachtree Dunwoody Rd.
Bldg. C, Ste 515
Atlanta, Georgia 30328-6055
678.320.1888
wileywilson.com

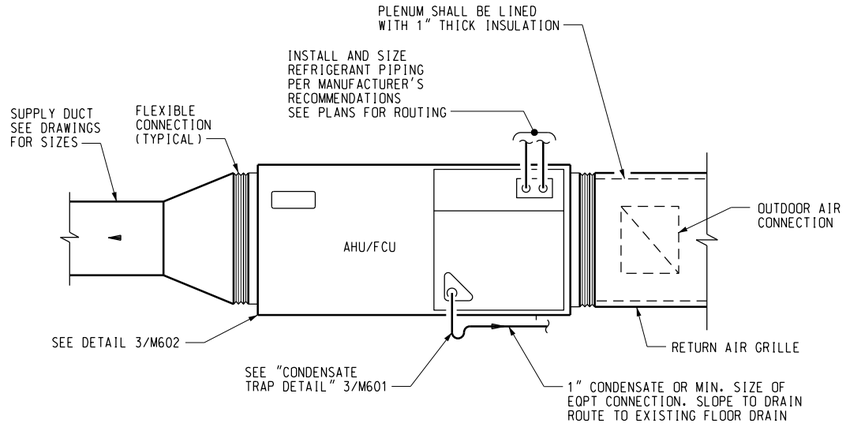
WW JOB NUMBER: 219075.00

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
DESIGNED JJS	ISSUED BY	DATE JAN 31, 2020 JCN 1508912
DRAWN CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO FLL-D-TRACO-M601 REV
CHECKED JJS		



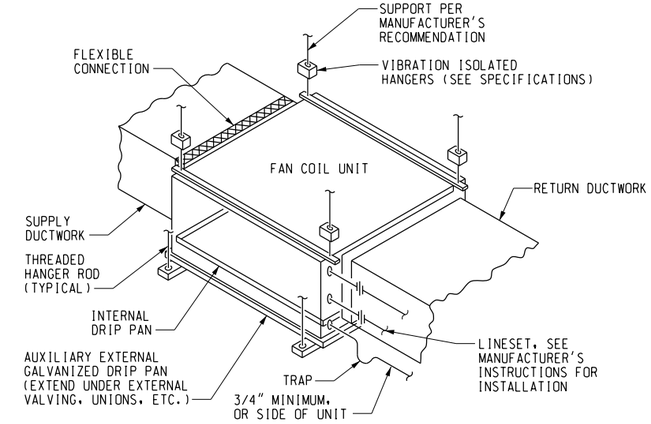
NOTE:
SIDE ELEVATION SHOWN. PROVIDE CLEARANCES AS SPECIFIED IN SMACNA "FIRE DAMPER AND HEAT STOP GUIDE FOR AIR HANDLING SYSTEMS".

1 M602 FIRE DAMPER DETAIL
NOT TO SCALE

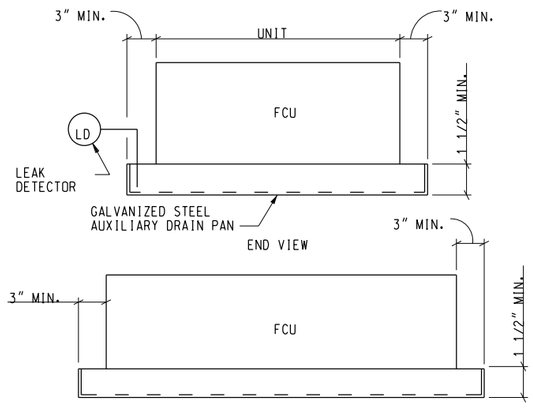


NOTE:
SUSPENDED AHU'S AND DRAIN PANS FROM STRUCTURE ABOVE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

2 M602 TYPICAL HORIZONTAL AHU/FCU DETAIL
NOT TO SCALE

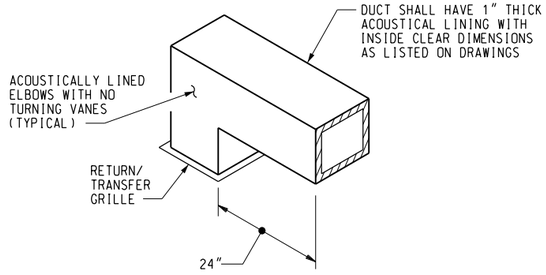


3 M602 FAN COIL UNIT SUPPORT DETAIL
NOT TO SCALE

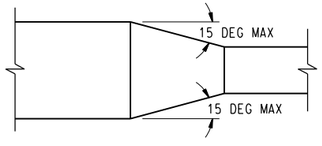


NOTE:
THE SYSTEM SHALL BE DE-ENERGIZED AT THE DETECTION OF LIQUID IN THE DRAIN PAN.

4 M602 DRAIN PAN DETAIL
NOT TO SCALE



5 M602 RETURN GRILLE DUCT DETAIL
NOT TO SCALE



PLAN OR SIDE VIEW

6 M602 TYPICAL DUCTWORK TRANSITION DETAIL
NOT TO SCALE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 1/31/2020

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS MECHANICAL DETAILS

FT LAUDERDALE (INTERNATIONAL) FL

Wiley|Wilson
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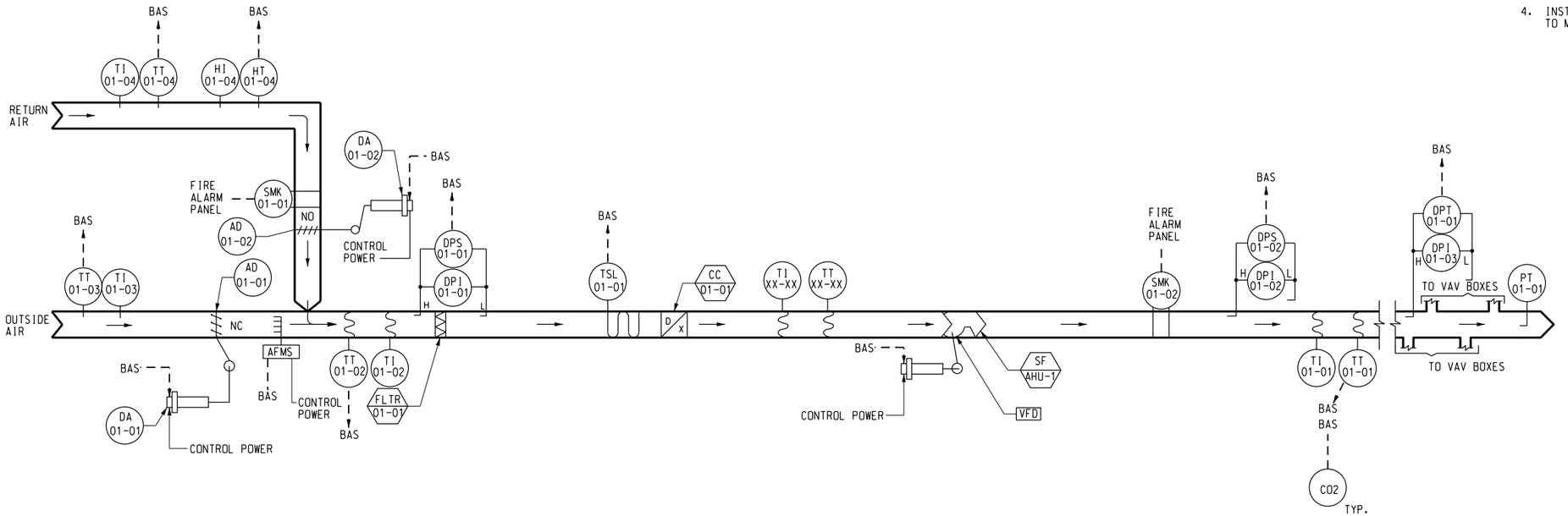
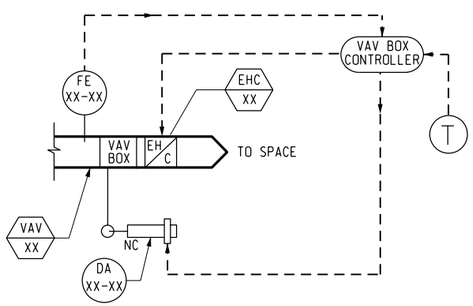
DRAWN CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO FLL-D-TRACO-M602 REV
CHECKED JJS		

NOTES

1. SEE DRAWING TRACO-M000 FOR HVAC LEGEND AND GENERAL NOTES.
2. EXISTING AIR HANDLING UNIT TO REMAIN. INTEGRATE WITH NEW DDC SYSTEM.
3. THE SMOKE DETECTOR AND FIRE ALARM CONTROL MODULES SHALL BE FURNISHED AND INSTALLED BY FIRE ALARM CONTRACTOR.
4. INSTRUMENT NUMBER ASSIGNMENTS ARE OMITTED WHEN DIAGRAMS APPLY TO MULTIPLE SYSTEMS/ EQUIPMENT. CONTRACTOR SHALL ASSIGN THEM.



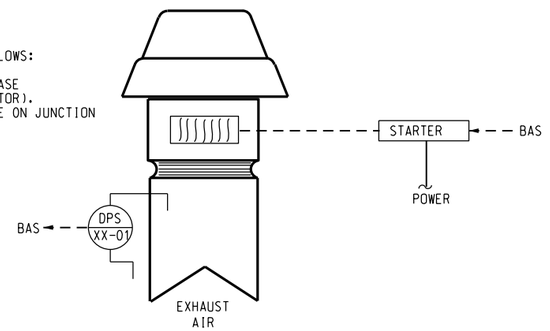
1 M800 CONTROL SYSTEM DIAGRAM - AHU-1
NOT TO SCALE



2 M800 CONTROL DIAGRAM - TERMINAL UNIT (VAV)
NOT TO SCALE (VAV-1 THRU VAV-9)

EXISTING EXHAUST FANS AS FOLLOWS:

- ONE ROOF MOUNTED TYPE IN BASE BUILDING (TOILETS AND JANITOR).
- ONE INLINE CENTRIFUGAL TYPE ON JUNCTION LEVEL IN TOWER (TOILET)



3 M800 CONTROL DIAGRAM - EXHAUST FANS
NOT TO SCALE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
CONTROL SYSTEM DIAGRAM AHU-1, VAV & EXHAUST FANS

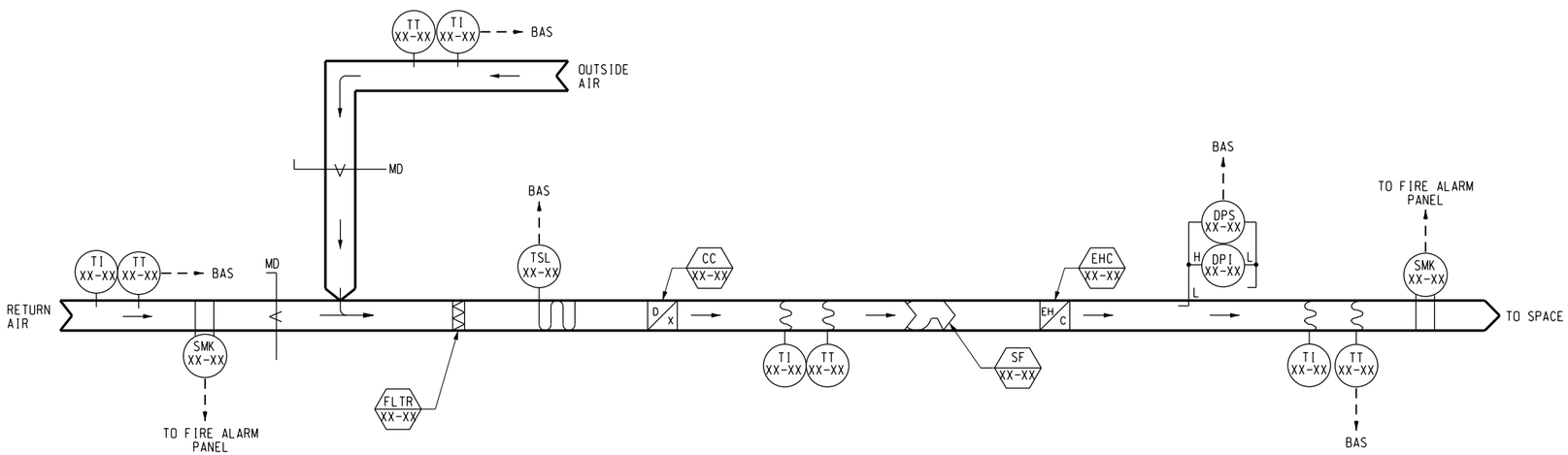
FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JJS | DRAWN CRK | CHECKED JJS | ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER | DATE JAN 31, 2020 | JCN 1508912 | DRAWING NO FLL-D-TRACO-M800 | REV

NOTES

1. SEE DRAWING TRACO-M000 FOR HVAC LEGEND AND GENERAL NOTES.
2. THE SMOKE DETECTOR AND FIRE ALARM CONTROL MODULES SHALL BE FURNISHED AND INSTALLED BY FIRE ALARM CONTRACTOR.
3. INSTRUMENT NUMBER ASSIGNMENTS ARE OMITTED WHEN DIAGRAMS APPLY TO MULTIPLE SYSTEMS/ EQUIPMENT. CONTRACTOR SHALL ASSIGN THEM.



1 / M801 CONTROL SYSTEM DIAGRAM - FCU-1 AND FCU-2

NOT TO SCALE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 31 JAN 2020

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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
CONTROL SYSTEM DIAGRAM FCU-1 AND FCU-2

FT LAUDERDALE (INTERNATIONAL) FL

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GENERAL

- THE NEW HVAC CONTROL SYSTEM AND ASSOCIATED SHALL BE DIRECT DIGITAL CONTROL (DDC) SYSTEM, "SMARTSTRUXURE" AS MANUFACTURED BY SCHNEIDER ELECTRIC.
- NEW THERMOSTATS SHALL BE SCHNEIDER ELECTRIC STR 250, WALL-MOUNTED ALPHANUMERIC DISPLAY WITH ADJUSTABLE DDC DETERMINED BAND.
- PROVIDE A NEW DDC CENTRAL WORKSTATION WHERE DIRECTED BY THE FAA CONTRACTING OFFICER REPRESENTATIVE.

SEQUENCE OF OPERATION: AHU-1 AND CU-1

- AHU-1 SHALL BE CONTROLLED BY A PROCESS CONTROL UNIT. THE SYSTEM SUPPLY FAN SHALL START UPON A SIGNAL FROM THE DDC CONTROL PANEL WHICH SHALL HAVE PROGRAMMABLE OCCUPIED AND UNOCCUPIED TIMES WITH A MANUAL OVERRIDE FOR HOLIDAY PERIODS, ETC.
- THE SYSTEM SHALL "SOFT START" THE SUPPLY FAN AND SLOWLY RAMP THE VARIABLE FREQUENCY DRIVE UP TO CONTROL THE STATIC PRESSURE IN THE SUPPLY DUCT MONITORED 2/3 OF THE DISTANCE DOWN THE LONGEST DUCT.
- THE SYSTEM SHALL MAINTAIN A CONSTANT MINIMUM OUTSIDE AIR FLOW (ADJUSTABLE) BY MONITORING A DUCT-MOUNTED AIR FLOW MEASURING STATION AND MODULATION OF THE AHU MIXING BOX DAMPERS. THE SUPPLY AIR TEMPERATURE SETPOINT (ADJUSTABLE) SHALL BE MAINTAINED BY CONTROL OF THE MULTI-STAGE CONDENSING UNIT.
- THE DDC SYSTEM SHALL MONITOR TWO SPACE MOUNTED CO2 SENSORS. IF THE SPACE CO2 EXCEEDS THE CO2 SETPOINT (ADJUSTABLE) THE SYSTEM SHALL INCREASE THE FRESH AIR INTAKE THROUGH MODULATION OF THE AHU MIXING BOX DAMPERS.
- SMOKE DETECTORS IN THE SUPPLY AIR AND RETURN AIR DUCTWORK SHALL STOP THE SUPPLY FAN AND INITIATE A SMOKE ALARM IF SMOKE IS DETECTED AT EITHER LOCATION. RESTARTING THE SUPPLY FAN SHALL REQUIRE MANUAL RESET AT THE SMOKE DETECTORS.
- SUPPLY AIR TEMPERATURE RESET:
  THE NORMAL SUPPLY AIR TEMPERATURE SHALL BE 55 DEGREES F (ADJUSTABLE). WHEN THE TEMPERATURE IN ANY SPACE REMAINS ABOVE SETPOINT FOR 10 MINUTES (ADJUSTABLE) AS MEASURED BY THE SPACE TEMPERATURE SENSOR WITH THE VAV DAMPER AT ITS MAXIMUM POSITION THE SUPPLY AIR TEMPERATURE SHALL BE RESET TO LOW TEMPERATURE SETTING (46 DEGREES F, ADJUSTABLE). SUPPLY AIR TEMPERATURE SHALL REMAIN AT LOW SETTING UNTIL ALL ZONES HAVE FALLEN BELOW COOLING SETPOINT. WHEN ALL ZONES ARE SATISFIED FOR COOLING THE SAT SHALL REVERT BACK TO ITS NORMAL 55 DEGREES F (ADJUSTABLE) TEMPERATURE.
- HUMIDITY CONTROL SEQUENCE:
  IF THE BUILDING HUMIDITY LEVELS RISE ABOVE SETPOINTS (ADJUSTABLE) AS SENSED BY THE RETURN AIR DUCT SENSOR, THE OA DAMPER SHALL MOVE TO ITS MINIMUM SCHEDULED POSITION AND THE RETURN AIR DAMPER SHALL OPEN FULLY. THIS MODE SHALL CONTINUE UNTIL SUCH TIME AS THE HUMIDITY FALLS BELOW THE SETPOINT. IF BUILDING HUMIDITY REMAINS ABOVE SETPOINT FOR 10 MINUTES (ADJUSTABLE) SUPPLY AIR LOW TEMPERATURE RESET SHALL BE ACTIVATED AND SHALL CONTINUE UNTIL BUILDING HUMIDITY FALLS BELOW SETPOINT.
- IF DURING DEHUMIDIFICATION OPERATION SUBSEQUENT HEATING IS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT, THE ELECTRIC HEATING COILS IN THE VAV BOXES SHALL BE ENERGIZED AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.
- THE TERMINAL UNITS (VAV-1 THRU VAV-9) ASSOCIATED WITH AHU-1 SHALL BE CONTROLLED BY SMARTSTRUXURE APPLICATION SPECIFIC CONTROLLERS (MR-VAV-AX). THE CONTROLLER SHALL MONITOR THE SPACE CONDITIONS BY A WALL MOUNTED THERMOSTAT AND SHALL MODULATE AIR FLOW FROM MINIMUM TO MAXIMUM CFM BASED ON THE ON BOARD FLOW TRANSDUCER AND THE VAV BOX MANUFACTURER PROVIDED FLOW RING. THE CONTROLLER SHALL INCREASE THE AIR FLOW TO PROVIDE COOLING WHEN THE SPACE TEMPERATURE RISES ABOVE COOLING SET POINT. AS SPACE TEMPERATURE APPROACHES THE SETPOINT THE CONTROLLER SHALL THROTTLE BACK THE VAV BOX TO THE MINIMUM LEVEL SCHEDULED (ADJUSTABLE). WHEN THE SPACE TEMPERATURE FALLS BELOW THE HEATING SET POINT (ADJUSTABLE) THE ELECTRIC HEAT STRIPS SHALL BE ENERGIZED UNTIL SPACE TEMPERATURE RISES ABOVE HEATING SETPOINT. THE CONTROLLER SHALL ENFORCE A DEAD BAND BEFORE ENABLING THE HEAT.

SEQUENCE OF OPERATION: FCU-1/2 AND HP-1/2

- SPLIT SYSTEM HEAT PUMPS FCU-1/HP-1 AND FCU-2/HP-2 SERVING THE EQUIPMENT AND TELCO ROOM SHALL MAINTAIN INTERIOR CONDITIONS AND SHALL EACH BE CONTROLLED BY A PROCESS CONTROL UNIT. THE SUPPLY FAN SHALL RUN CONTINUOUSLY IN THE OCCUPIED MODE. SUPPLEMENTAL ELECTRIC HEAT SHALL AUTOMATICALLY ENERGIZE/DE-ENERGIZE TO MAINTAIN INTERIOR CONDITIONS IN HEATING MODE.
- THE UNITS SHALL BE CONTROLLED BASED ON SPACE CONDITIONS SENSED BY THE THERMOSTATS IN BOTH THE EQUIPMENT AND TELCO ROOM. SYSTEM AND/OR SUPPLEMENT HEAT SHALL RUN/ENERGIZE WHEN CALLED FOR IN EITHER OR BOTH SPACES. MOTORIZED ISOLATION DAMPERS SHALL BE INTERLOCKED TO THEIR RESPECTIVE SUPPLY FAN MOTOR.
- ONLY ONE FCU/HP SYSTEM (PRIMARY) SHALL OPERATE AT A TIME. THE DDC SYSTEM SHALL ASSIGN ONE SYSTEM "PRIMARY" RESPONSIBILITY AND THE OTHER SYSTEM "STANDBY" RESPONSIBILITY AND SHALL REVERSE THE ASSIGNMENT BI-MONTHLY TO EQUALIZE RUN-TIME ACCUMULATION. REASSIGNMENT OF PRIMARY AND STANDBY STATUS SHALL NOT OCCUR IF A SYSTEM FAILURE FLAG IS SET. THE PRIMARY SYSTEM SHALL OPERATE TO MAINTAIN SPACE CONDITIONS. IF THE SPACE TEMPERATURE SETPOINT IS NOT REACHED AFTER TEN MINUTES (ADJUSTABLE) OF CONTINUOUS OPERATION OF THE PRIMARY SYSTEM, THE DDC SYSTEM SHALL STOP THE PRIMARY SYSTEM AND REVERSE THE PRIMARY AND STANDBY ASSIGNMENTS. THE NEWLY DESIGNATED PRIMARY SYSTEM SHALL BE STARTED. THE DDC SYSTEM SHALL SEND AN ALARM AND SHALL SET A FAILURE FLAG FOR THE STOPPED SYSTEM.
- ISOLATION DAMPERS IN THE SUPPLY AND RETURN SHALL BE INTERLOCKED WITH THEIR RESPECTIVE SUPPLY FAN AND SHALL OPEN BEFORE THE SUPPLY FAN IS STARTED AND CLOSE WHEN THE FAN IS STOPPED. THE FAN MOTOR OPERATION SHALL BE CONTROLLED BY DAMPER END POSITION SWITCHES.
- EXISTING EXHAUST FAN (ROOF MOUNTED TYPE) SERVING THE TOILETS AND JANITOR SHALL BE CONTROLLED AND RUN STATUS MONITORED VIA THE DDC SYSTEM. FAN SHALL BE CONTROLLED TO RUN DURING OCCUPIED TIMES AS DETERMINED BY OPERATION OF AHU-1.
- THE CONTROL SYSTEM SETPOINTS AND DEADBANDS SHALL BE ADJUSTABLE, AND SHALL BE SET AS FOLLOWS:

ROOM	SETPOINT COOLING/HEATING	DEADBAND COOLING/HEATING
RADAR EQUIPMENT ROOM	73°F/73°F	-2°F/+2°F
NAV/COM EQUIPMENT ROOM	73°F/73°F	-2°F/+2°F
OFFICES AND REMAINING SPACES (EXCEPT TRACON)	75°F/75°F	-2°F/+2°F

INPUT - OUTPUT SUMMARY

POINT DESCRIPTION	INPUTS									OUTPUTS							
	ANALOG					DIGITAL				ANALOG				DIGITAL			
AHU-1/CU-1	HUMIDITY	TEMPERATURE	DUCT STATIC PRESSURE	CO-2	DIFFERENTIAL PRESSURE	CFM	AUXILIARY CONTACT	DIFFERENTIAL PRESSURE SW	CURRENT SWITCH	0-10 VOLT CONTROL	POSITION ADJUSTMENT			CONTROL RELAY(S)			
SUPPLY AIR		X	X														
RETURN AIR	X	X															
MIXED AIR		X															
FILTER					X												
SUPPLY FAN								X		X				X			
CONDENSING UNIT STAGES									X					X			
OUTSIDE AIR		X				X											
MIXING BOX DAMPERS										X							
SPACE CO2 (2 REQ'D)				X													
SMOKE DETECTORS (2 REQ'D)							X										
EXISTING EXHAUST FAN								X						X			

INPUT - OUTPUT SUMMARY

POINT DESCRIPTION	INPUTS									OUTPUTS						
	ANALOG					DIGITAL				ANALOG			DIGITAL			
FCU-1/2 HP-1/2	TEMPERATURE	DUCT STATIC PRESSURE	CO-2	DIFFERENTIAL PRESSURE	CFM	AUXILIARY CONTACT	DIFFERENTIAL PRESSURE SW	CURRENT RELAY	END POSITION SWITCH	0-10 VOLT CONTROL	POSITION ADJUSTMENT		CONTROL RELAY(S)			
SPACE	X															
SUPPLY AIR	X															
RETURN AIR	X															
MIXED AIR	X															
FILTER				X												
SUPPLY FAN							X						X			
CONDENSING UNIT STAGES													X			
REVERSING VALVE													X			
SUPPLEMENTAL HEAT STAGES													X			
MOTORIZED ISOLATION DAMPER						X			X		X					

INPUT - OUTPUT SUMMARY

POINT DESCRIPTION	INPUTS									OUTPUTS						
	ANALOG					DIGITAL				ANALOG			DIGITAL			
VAV BOXES (VAV-1 THRU VAV-9)	TEMPERATURE	DUCT STATIC PRESSURE	CO-2	DIFFERENTIAL PRESSURE	CFM	AUXILIARY CONTACT	DIFFERENTIAL PRESSURE SW	CURRENT SWITCH		0-10 VOLT CONTROL	POSITION ADJUSTMENT		CONTROL RELAY(S)	STATUS		
SPACE	X															
SUPPLY AIR					X											
AIR VALVE											X					
STAGES SUPPLEMENTAL HEAT													X			
AFTER HOURS OCCUPANCY						X										
AUXILIARY HEAT						X								X		

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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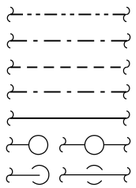
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS MECHANICAL SEQUENCE OF OPERATION AND SYSTEM POINT LIST

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
	DESIGNED JJS	ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
	DRAWN CRK	DATE JAN 31, 2020 JCN 1508912
	CHECKED JJS	DRAWING NO FLL-D-TRACO-M802 REV

LEGEND



DOMESTIC HOT WATER PIPING

DOMESTIC COLD WATER PIPING

SANITARY VENT PIPING

SANITARY SEWER PIPING

STORM SEWER PIPING

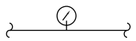
RISE IN PIPING

DROP IN PIPING

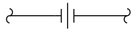
NEW WORK AS SHOWN
HEAVY LINE

CONNECTING POINT BETWEEN NEW
PIPING AND EXISTING PIPING

FLOW SWITCH



PRESSURE GAUGE



UNION

EXISTING PIPING AS SHOWN
LIGHT DASHED

EXISTING PIPING TO BE REMOVED

INTERFACING POINT BETWEEN
EXISTING PIPING TO REMAIN AND
EXISTING PIPING TO BE REMOVED

PLUMBING GENERAL NOTES

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS (DO NOT SCALE FOR LOCATIONS). IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS. THE CONTRACTOR SHALL CAREFULLY REVIEW ALL THE CONTRACT DOCUMENTS AND COORDINATE BETWEEN ALL TRADES PRIOR TO SUBMITTING SHOP DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL SIZES, MATERIALS, AND TEMPERATURE AND PRESSURE RATINGS BEFORE ORDERING OR INSTALLING ANY MATERIALS OR EQUIPMENT.

2. THIS PROJECT IS A RENOVATION OF AN EXISTING FACILITY, AND PREVIOUS RECORD DRAWINGS FORM THE BASIS FOR MANY OF THESE DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR PURCHASE OF MATERIALS AND ASSEMBLIES. THERE MAY EXIST FIELD CONDITIONS WHICH DIFFER FROM THOSE SHOWN ON THESE DRAWINGS. ANY SUCH DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE FAA CONTRACTING OFFICER REPRESENTATIVE FOR RESOLUTION BEFORE PROCEEDING WITH ANY CONSTRUCTION, FABRICATION, OR MATERIAL/EQUIPMENT PURCHASE WHICH WOULD BE UNUSABLE UNDER THOSE CIRCUMSTANCES.

3. EQUIPMENT SIZES SHOWN ARE BASED UPON TYPICAL MANUFACTURER EQUIPMENT AVAILABLE. SHOP DRAWINGS SHALL BE PROVIDED FOR REVIEW AND APPROVAL SHOWING SPACE FOR ACCESS, EGRESS, MAINTENANCE, AND REQUIRED CODE CLEARANCES PRIOR TO ANY PROCUREMENT, FABRICATION, OR INSTALLATION.

4. COORDINATE THE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACT DOCUMENTS PRIOR TO ORDERING. PROVIDE WRITTEN VERIFICATION OF COORDINATION WITH ELECTRICAL CONTRACT DOCUMENTS PRIOR TO INSTALLATION OF EQUIPMENT.

5. COORDINATE PIPING WITH DUCTWORK, ELECTRICAL, STRUCTURAL, AND FIRE PROTECTION. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE GOVERNMENT. DO NOT CUT STRUCTURE.

6. FOR DRAINAGE PIPING SMALLER THAN 3", SLOPE DRAINAGE PIPING AT MINIMUM 1/4" PER FOOT IN DIRECTION OF FLOW, FOR DRAINAGE PIPING AT LEAST 3" IN SIZE AND LESS THAN OR EQUAL TO 6" IN SIZE, SLOPE PIPING AT 1/8" PER FOOT IN DIRECTION OF FLOW.

7. ALL HARDWARE, INCLUDING CLAMPS, BOLTS, NUTS, WASHERS, STRUTS, ANCHOR BOLTS, ANGLES, ETC., USED TO SUPPORT OR INSTALL ANY EXTERIOR EQUIPMENT, PIPE, CONDUIT, OR OTHER DEVICE SHALL BE STAINLESS STEEL AISI 304 OR AISI 316.

8. PROVIDE APPROPRIATE BACKFLOW PREVENTING DEVICE IN LOCATIONS WHERE POSSIBILITY OF BACK-SIPHONAGE EXISTS.

9. DO NOT ROUTE PIPING ABOVE ELECTRICAL, COMMUNICATIONS, DATA EQUIPMENT, OR ELECTRICAL PANELS.

10. PROVIDE INSULATION FOR ALL DOMESTIC PIPING AND STORM DRAIN PIPING IN CEILINGS PER SPECIFICATIONS.

11. TEST DRINKING WATER PRIOR TO PERFORMING ANY WORK.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
PLUMBING
SYMBOLS AND GENERAL NOTES

FT LAUDERDALE (INTERNATIONAL) FL

Wiley|Wilson
5901 Peachtree Dunwoody Rd.
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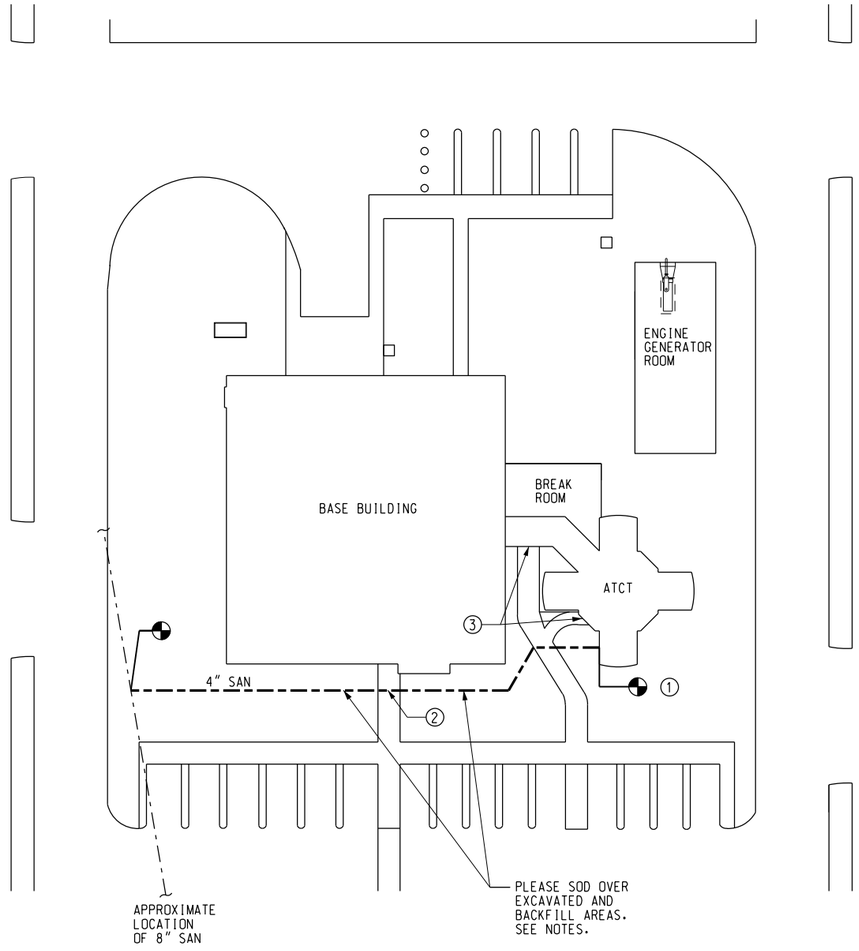
WW JOB NUMBER: 219075.00

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
	DESIGNED CRK	ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
	DRAWN CRK	DATE JAN 31, 2020 JCN 1508912
	CHECKED JJS	DRAWING NO FLL-D-TRACO-P000 REV



1 P050 PLUMBING SITE PLAN

SCALE: 1" = 20'-0"

NOTES

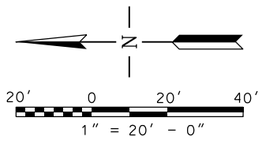
1. REPLACE EXISTING 4" SANITARY SEWER FOR ENTIRE LENGTH OF RUN TO 8" LINE WITH 4" DUCTILE IRON PIPE. APPROXIMATE LOCATION OF EXISTING 8" PIPE IS SHOWN FROM PLANS DATED 08/04/1987. SEE ATCT-P404 FOR CONTINUATION. THIS LINE SERVES RESTROOM IN THE ATCT. LINE MUST REMAIN IN OPERATION WHEN ATCT IS MANNED. COORDINATE CUTOFF TIMES WITH FAA COR.
2. THIS IS THE MAIN ENTRANCE TO BUILDING. EGRESS NEEDS TO BE MAINTAINED DURING FAA OPERATION HOURS. COORDINATE WITH COTR ABOUT WHEN WORK CAN BE CONDUCTED.
3. THESE MEANS OF EGRESS NEED TO BE MAINTAINED DURING FAA OPERATION HOURS. COORDINATE WITH COTR ABOUT WHEN WORK CAN BE CONDUCTED.

GENERAL NOTES

A. SEE TRACO-P000 FOR GENERAL NOTES AND SYMBOLS. SEE TOWB-G010 AND TOWB-G011 FOR ABBREVIATIONS.

SOD REPAIR NOTES

1. PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVAL PLAN. THESE OPERATIONS SHOULD LEAVE AS MUCH TOPSOIL AS POSSIBLE OR REPLACE THE TOPSOIL TO A DEPTH OF FOUR INCHES.
2. PRIOR TO LAYING SOD, THE SOIL SURFACE SHALL BE CLEAR OF TRASH, DEBRIS, ROOTS, BRANCHES, STONES AND CLODS IN EXCESS OF 2 INCHES IN LENGTH OR DIAMETER. SOD SHALL NOT BE APPLIED TO GRAVEL OR OTHER NON-SOIL SURFACES.
3. SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COARSE WEEDY GRASSES. IF POSSIBLE, CERTIFIED OR APPROVED TURFGRASS SOD SHOULD BE USED.
4. SOD SHALL BE NOT CUT OR LAID IN EXCESSIVELY WET OR DRY WEATHER.
5. SOD SHALL BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.
6. IRRIGATE AREAS TO BE SODDED WITH A MINIMUM OF 1-INCH OF WATER UNLESS RECENT RAINS HAVE PROVIDED EQUIVALENT MOISTURE.
7. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHALL BE ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL.
8. AFTER ROLLING, SOD SHALL BE IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 INCHES BELOW THE SOD IS THOROUGHLY WET.
9. DURING THE FIRST WEEK, IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE PERFORMED AS OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF AT LEAST 4 INCHES.



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

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DEPARTMENT OF TRANSPORTATION
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FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS PLUMBING SITE PLAN

FT LAUDERDALE (INTERNATIONAL) FL

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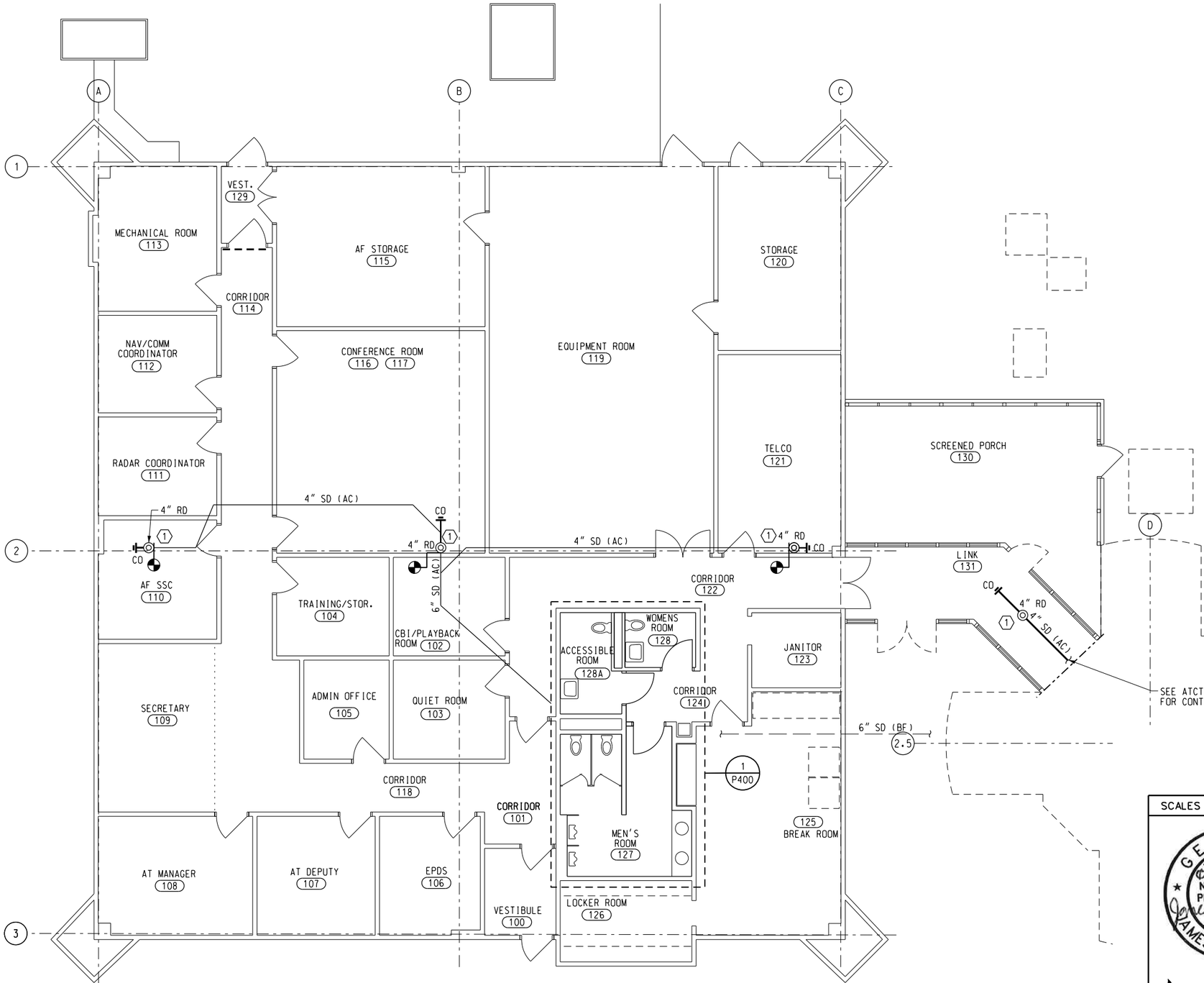
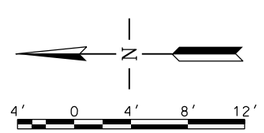


1 P100 BASE BUILDING FLOOR PLAN - NEW WORK

SCALE: 3/16" = 1' - 0"



NOTES

1. INSTALL NEW 4" ROOF DRAIN AND CONDUCTOR. REPLACE EXISTING TEE FITTING AND CLEANOUT TO ACCOMMODATE A 4" PIPE. SEE DETAIL 4, TRACO-A610 FOR MORE INFORMATION. THIS WORK WILL REQUIRE REMOVAL AND REPLACEMENT OF CEILING TILES. COORDINATE WITH COTR BEFORE COMMENCING WORK.

GENERAL NOTES

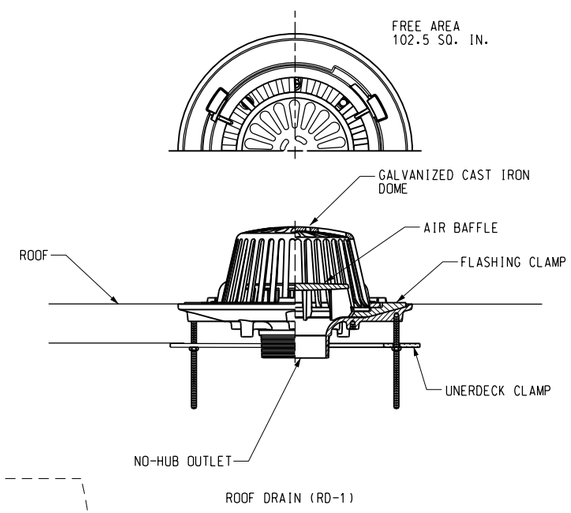
A. SEE DRAWING TRACO-P000 FOR PLUMBING LEGEND, GENERAL NOTES, AND SPECIAL NOTES.

B. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF SITE CONDITIONS DEVIATE SIGNIFICANTLY FROM CONTRACT DOCUMENTS.

LEGEND

NEW PIPES WORK

EXISTING PIPES TO REMAIN



ROOF DRAIN (RD-1)

2 P100 TYPICAL ROOF DRAINS

NOT TO SCALE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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GEORGIA REGISTERED 01/31/2020 No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH

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PLUMBING
BASE BUILDING FLOOR PLAN - NEW WORK

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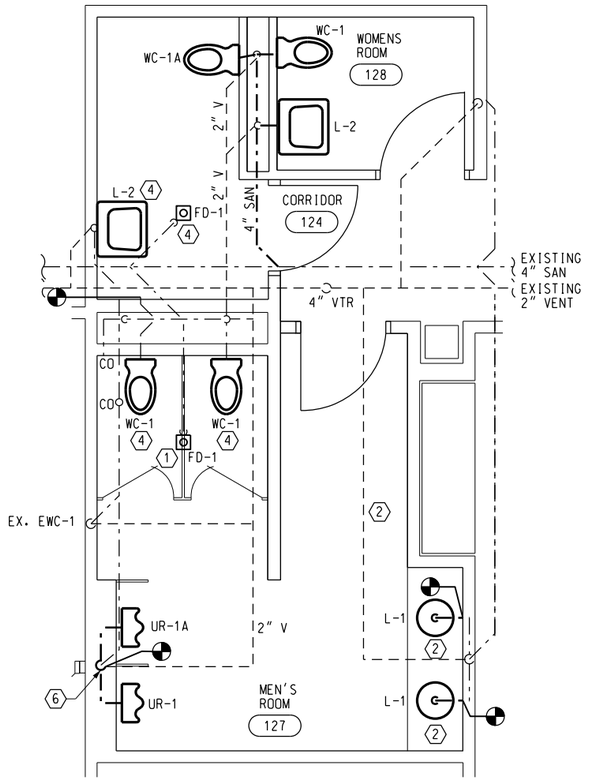
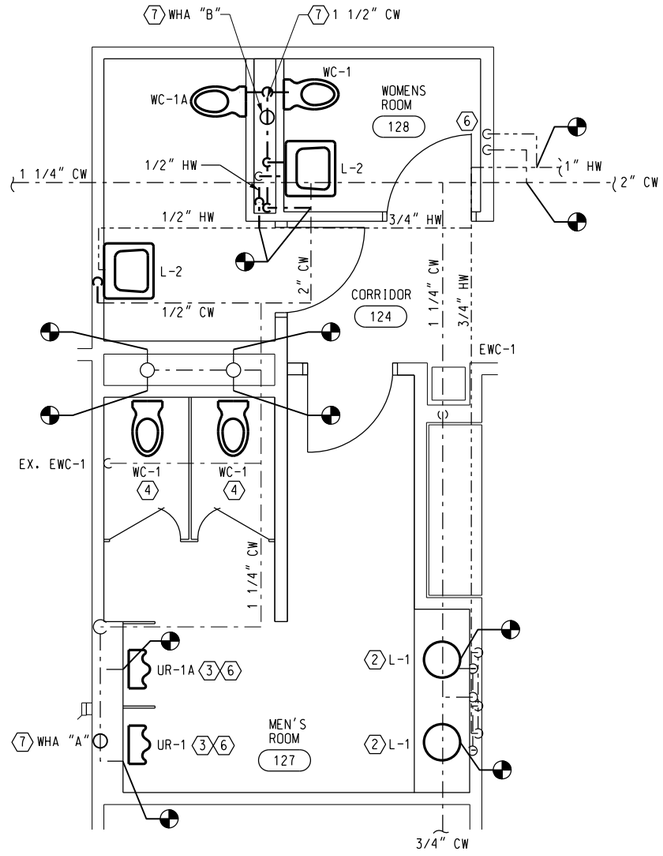


1 P400 ENLARGED RESTROOM SANITARY
SCALE: 3/8" = 1' - 0"



2 P400 ENLARGED RESTROOM DOMESTIC
SCALE: 3/8" = 1' - 0"

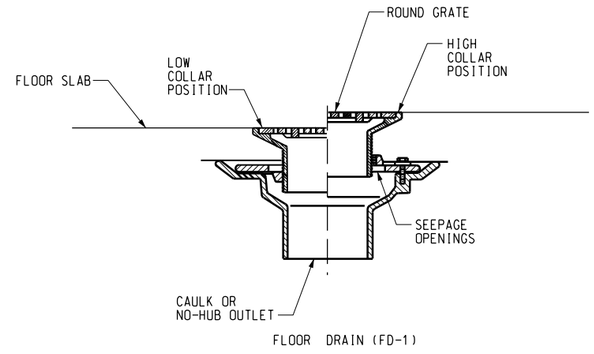
NOTES

1. REPLACE EXISTING FLOOR DRAIN AND ALL ASSOCIATED ACCESSORIES.
2. REPLACE EXISTING LAVATORY SUPPLY LINES, AND ALL ASSOCIATED ACCESSORIES.
3. REPLACE EXISTING LAVATORY URINAL FLUSH VALVES, SUPPORTS, AND ALL ASSOCIATED ACCESSORIES.
4. REPLACE EXISTING WATER CLOSET, FLUSH VALVE, SUPPORTS, AND ALL ASSOCIATED ACCESSORIES AND INSTALL NEW CARRIER.
5. CAP SUPPLY LINE INSIDE OF WALL.
6. REPAIR FINISH IN THIS AREA. COORDINATE WITH ARCHITECTURAL.
7. PROVIDE OF ACCESS PANEL FOR WATER HAMMER ARRESTER.
8. PROVIDE ACCESS PANEL FOR SHUT-OFF VALVES IN PIPE DROP.

GENERAL NOTES

A. EXISTING WORK SHOWN LIGHT SOLID LINE WITHOUT HATCHING SHALL REMAIN.

B. SEE TRACO-P000 FOR GENERAL NOTES, AND SYMBOLS. SEE TOWB-G010 AND TOWR-G011 FOR ABBREVIATIONS.



FLOOR DRAIN (FD-1)

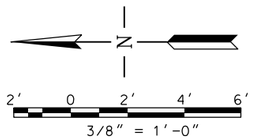
1 P400 TYPICAL FLOOR DRAIN
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

DESIGNATION	FIXTURE TYPE	ACCESSIBILITY	MATERIAL	FLUSH VALVE	SUPPLY FITTINGS AND STOPS	TRAP	CARRIER	CONNECTION SIZES				REMARKS
								WASTE	VENT	HOT	COLD	
L-1	LAVATORY	ADA	CAST IRON	—	ANGLE STOPS	1 1/4"	SELF-RIMMING	1 1/2"	1 1/4"	1/2"	1/2"	PROVIDE ZURN #Z812B4-XL-26F FAUCET, PROVIDE ASSE 070 VALVE, ZURN #Z5820.
L-2	LAVATORY	ADA	VITREOUS CHINA	—	ANGLE STOPS	1 1/4"	SELF-RIMMING	1 1/2"	1 1/4"	1/2"	1/2"	PROVIDE ZURN #Z25364 FAUCET, PROVIDE ASSE 070 VALVE, ZURN #Z5820.
UR-1	URINAL	——	VITREOUS CHINA	3/4" SUPPLY, 0.125 GPF	3/4" TOP SPUD ANGLE STOP	INTEGRAL	WALL	2"	1 1/2"	—	3/4"	SLOAN #186-0.125-DBP, 0.125 GPF MANUAL FLUSHOMETER, ZURN #Z1218 SUPPORT MOUNT 24" TO RIM ZURN #5758-U URINAL
UR-1A	URINAL	ADA	VITREOUS CHINA	3/4" SUPPLY, 0.125 GPF	3/4" TOP SPUD ANGLE STOP	INTEGRAL	WALL	2"	1 1/2"	—	3/4"	SLOAN #186-0.125-DBP, 0.125 GPF MANUAL FLUSHOMETER, ZURN #Z1218 SUPPORT MOUNT 17" TO RIM ZURN #5758-U URINAL
WC-1	WATER CLOSET	——	VITREOUS CHINA	1" SUPPLY, 1.28 GPF	1 1/2" TOP SPUD ANGLE STOP	INTEGRAL	WALL	4"	2"	—	1"	SLOAN #111-1.28-E, (1.28 GPF) MANUAL FLUSHOMETER, ZURN #Z5956SS-AM-STS OPEN FRONT SEAT, KOHLER #K-4325.
WC-1A	WATER CLOSET	ADA	VITREOUS CHINA	1" SUPPLY, 1.28 GPF	1 1/2" TOP SPUD ANGLE STOP	INTEGRAL	WALL	4"	2"	—	1"	SLOAN #111-1.28-E, (1.28 GPF) MANUAL FLUSHOMETER, ZURN #Z5956SS-AM-STS OPEN FRONT SEAT, KOHLER #K-4325.

NOTES

1. ALL EXPOSED PIPING AT PLUMBING FIXTURE SHALL BE CHROME-PLATED ESCUTCHEONS AT WALL PENETRATIONS.
2. PROVIDE CHROME-PLATED BRASS P-TRAP AND SUPPLIES WITH STOP VALVES AT ALL SINKS, LAVATORIES.
3. PROVIDE INSULATION FOR P-TRAP AND SUPPLIES AT ALL HANDICAP SINKS AND LAVATORIES.
4. SEE PLANS FOR COMMON VENT SIZES.



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POWER

SYMBOL	MOUNTING HEIGHT, AFF	DESCRIPTION
	+18"	SINGLE HEAVY DUTY RECEPTACLE, 20A, 125V, WALL MOUNTED
	+18"	QUADRUPLEX HEAVY DUTY RECEPTACLE, 20A, 125V, WALL MOUNTED
	+18"	DUPLEX HEAVY DUTY RECEPTACLE, 20A, 125V, WALL MOUNTED 'WP' DESIGNATES WEATHER PROOFING.
	+18"	DUPLEX HEAVY DUTY RECEPTACLE, GFI, 20A, 125V, WALL MOUNTED 'WP' DESINATES WEATHER PROOFING. PROVIDE WITH IN-USE WEATHER PROTECTIVE COVERS.
		DUPLEX HEAVY DUTY RECEPTACLE, 20A, 125V, FLOOR MOUNTED
	+18"	SPECIAL PURPOSE OUTLET NEMA RATING INDICATED
S	+48"	SPST, HEAVY DUTY TOGGLE SWITCH, UON
		SUBSCRIPT INDICATES 3 = 3-WAY 4 = 4-WAY D = DIMMER SWITCH k = KEY OPERATED m = MANUAL MOTOR STARTER WITH THERMAL OVERLOADS 2P = TWO-POLE MANUAL MOTOR STARTER OS = OCCUPANCY SENSOR: LEVITON OSSMT-MD OR APPROVED EQUAL GFI = PROVIDE WITH GROUND FAULT PROTECTION
OS		OCCUPANCY SENSOR, DUAL TECHNOLOGY

PULL BOXES / JUNCTION BOXES

SYMBOL	DESCRIPTION
J	JUNCTION BOX,

MOTORS

SYMBOL	MOUNTING HEIGHT, AFF UON	DESCRIPTION
	+60"	MAGNETIC MOTOR STARTER, NEMA SIZE AS INDICATED
	+60"	COMBINATION MOTOR STARTER, NEMA SIZE AS INDICATED
60/3	+60"	UNFUSED DISCONNECT SWITCH, WHERE 60/3 INDICATES NEMA FRAME SIZE/NUMBER OF POLES
F 60/40/3	+60"	FUSED DISCONNECT SWITCH, WHERE 60/40/3 INDICATES NEMA FRAME SIZE/FUSE SIZE/NUMBER OF POLES
		MOTOR

MISCELLANEOUS

SYMBOL	DESCRIPTION
T	TRANSFORMER

PANELBOARDS AND CABINETS

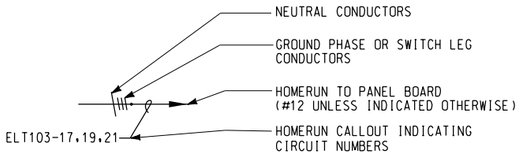
SYMBOL	MOUNTING HEIGHT, AFF	DESCRIPTION
	+78" (TOP)	3 PHASE, 4 WIRE PANELBOARD, SURFACE MOUNTED, 208/120V, ESSENTIAL OR CRITICAL

SINGLE-LINE DIAGRAM

SYMBOL	DESCRIPTION
	TRANSFORMER
	MOLDED CASE CIRCUIT BREAKER
	GROUND

RACEWAYS

SYMBOL	DESCRIPTION
	CONDUIT, CONCEALED IN WALLS, CEILING OR EXPOSED
	UNDERGROUND/SLAB CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT CAPPED
OR	FLEXIBLE CONDUIT
	LT = LIQUID TIGHT
	CABLE TRAY
	ESSENTIAL WIREWAY (4" SQUARE DUCT)
	CRITICAL WIREWAY (4" SQUARE DUCT)
	DUCTBANK
CM•	COMMUNICATION MANHOLE
EM•	ELECTRICAL (POWER) MANHOLE
	CABLE MARKER



NO TALLIES INDICATE 2 #12 & 1 #12G - 3/4" C, UON EACH CIRCUIT SHALL HAVE SEPARATE, DEDICATED NEUTRAL AND GROUND CONDUCTORS.

GROUNDING AND LIGHTNING PROTECTION

SYMBOL	DESCRIPTION
	GROUND ROD, 10'-0"X3/4" DIA COPPER CLAD STEEL
	GROUND ACCESS WELL
	RAISED FLOOR PEDESTAL GROUND
	AIR TERMINAL (LIGHTNING PROTECTION)
G	GROUND PLATE SUBSCRIPT INDICATES: M = MULTIPOINT GROUND B = ANTENNA LIGHTNING BULKHEAD PLATE
— G —	BARE COPPER GROUNDING CONDUCTOR UNDERGRADE/IN SLAB
—— G ——	COPPER GROUNDING CONDUCTOR, EXPOSED
▪	BONDING/SPLICING CONNECTION

LUMINAIRE SCHEDULE

TYPE	FIXTURE DESCRIPTION	OR APPROVED EQUAL		FIXTURE DATA			LAMP DATA		REMARKS
		MANUFACTURER	CATALOG NUMBER	MOUNTING	VOLTAGE	INPUT WATTAGE	QTY.	TYPE	
A	LED DOWNLIGHT, 6" ROUND APERTURE	GREEN CREATIVE	SELECTFIT SERIES: SLFT6-80CCTS-DIM120V-LOW	CEILING	120	8	-	LED DRIVER	CONNECT TO EXISTING CIRCUIT. PROVIDE INTEGRAL EMERGENCY INVERTER FOR FIXTURES INDICATED WITH "E"
B	LED VANITY WALL SCONCE	KUZCO LIGHTING	CHARLOTTE SERIES: 601464CH-LED	WALL	120	29.5	-	LED DRIVER	CONNECT TO EXISTING CIRCUIT. MOUNT AT 7'-0" AFF TO TOP OF WALL SCONCE
SA	LED AREA LUMINAIRE	LITHONIA LIGHTING	D-SERIES: DSX1 LED-P1-40K-T4M-MVOLT-SPA	POLE	120	54	-	LED DRIVER	PROVIDE NEW CIRCUIT, CONNECT TO EXISTING CONTROLS. MOUNT TO NEW 25' TALL SQUARE POLE
SB	LED AREA LUMINAIRE	LITHONIA LIGHTING	D-SERIES: DSX1 LED-P1-40K-T5W-MVOLT-SPA	POLE	120	108	-	LED DRIVER	PROVIDE NEW CIRCUIT, CONNECT TO EXISTING CONTROLS. MOUNT TO NEW 25' TALL SQUARE POLE, 2 FIXTURES @ 90deg.
SF	LED FLOOD LIGHT FIXTURE	OPTEC LIGHTING	FLOODLIGHT SERIES: OLFLM-070-UNVL-40-7X6-TA-BL-WG	TENON	120	70	-	LED DRIVER	CONNECT TO EXISTING CIRCUIT. REPLACE FIXTURES MOUNTED TO EXISTING TENON
SW	LED WALL PACK	LITHONIA LIGHTING	D-SERIES: DSXW1 LED-10C-530-40K-T4M-MVOLT	WALL	120	19	-	LED DRIVER	CONNECT TO EXISTING CIRCUIT & CONTROLS. SURFACE MOUNT TO LOCATION INDICATED IN DRAWINGS
XA	WHITE LED EXIT SIGN	LITHONIA LIGHTING	LIGHT STYLE SERIES: LQM-S-W-R-120/277-ELN-SD	WALL / CEILING	120	-	-	LED DRIVER	CONNECT TO EXISTING CIRCUIT. SURFACE MOUNT TO LOCATION INDICATED IN DRAWINGS
XB	LED EMERGENCY LIGHT	LITHONIA LIGHTING	QUANTUM SERIES: ELM4L-UVOLT-LTP	WALL	120	6.6	-	LED DRIVER	CONNECT TO EXISTING CIRCUIT. SURFACE MOUNT TO LOCATION INDICATED IN DRAWINGS
XC	BLACK LED EXIT SIGN	LITHONIA LIGHTING	LIGHT STYLE SERIES: LQM-S-R-120/277-ELN-SD	WALL / CEILING	120	-	-	LED DRIVER	CONNECT TO EXISTING CIRCUIT. SURFACE MOUNT TO LOCATION INDICATED IN DRAWINGS

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GENERAL NOTES

1. PROVIDE CONNECTIONS TO ALL MOTORS, TO ALL HVAC AND PLUMBING EQUIPMENT AND TO ALL OTHER EQUIPMENT PROVIDED UNDER OTHER DIVISIONS OF WORK FROM DISCONNECT SWITCH, STARTER, J-BOX, ETC. UNLESS OTHERWISE NOTED.

2. ALL CIRCUITS SHALL INCLUDE A GREEN EQUIPMENT GROUNDING CONDUCTOR.

3. ALL HARDWARE, INCLUDING CLAMPS, BOLTS, NUTS, WASHERS, STRUTS, ANCHOR BOLTS, ANGLES, ETC. USED TO SUPPORT OR INSTALL ANY EXTERIOR (AND NON-CONDITIONED LOCATIONS) HANDRAIL, EQUIPMENT, PIPE, CONDUIT, BOX OR OTHER DEVICE SHALL BE STAINLESS STEEL ANSI 316.

4. SEE MECHANICAL DRAWINGS FOR EQUIPMENT SCHEDULES AND DETAILS.

5. PROVIDE PULLBOX IN ALL CONDUIT CIRCUITS THAT EXCEED FOUR NINETY DEGREE TURNS. COORDINATE LOCATION OF PULLBOXES WITH CONDUIT, LIGHTS, DUCTWORK, PIPING, ETC.

6. FOR TOWER CONDUIT RISERS- EXPOSED/SURFACE MOUNTED CONDUIT IS ACCEPTABLE IN THE TOWER WITH THE EXCEPTION OF AREAS WITH SUSPENDED CEILINGS. CONDUIT IN AREAS OF SUSPENDED CEILINGS SHALL BE RUN ABOVE THE CEILING OR CONCEALED IN WALLS.

7. FOR TOWER CONDUIT RISERS- REQUIRED PENETRATIONS SHALL BE NEATLY CORE DRILLED WITH GALVANIZED STEEL SLEEVES INSTALLED.

8. CIRCUITS FROM EACH OVERCURRENT DEVICE SHALL HAVE A DEDICATED NEUTRAL AND GROUND CONDUCTOR; NO CIRCUITS WITH SHARED NEUTRALS SHALL BE ALLOWED.

9. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE 2017, NFPA 780, FAA-STD-1217H, AND FAA SPEC 1217G.

10. NEW AND REPLACEMENT CIRCUIT BREAKERS INSTALLED IN PANELBOARDS SHALL MATCH EXISTING BREAKERS OF SIMILAR FRAME SIZE, INCLUDING VOLTAGE RATING AND INTERRUPTING CAPACITY.

11. POWER CIRCUITS FOR HVAC EQUIPMENT ARE SHOWN ON ELECTRICAL DRAWINGS.

12. MINIMUM CONDUIT SIZE SHALL BE 3/4". MINIMUM POWER CONDUCTOR SIZE SHALL BE #12 THWN/THHN COPPER.

GROUNDING AND LIGHTNING PROTECTION NOTES

1. THE COMPLETED GROUNDING AND LIGHTNING PROTECTION SYSTEM SHALL MEET THE "INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEMS, UL96A-MOST CURRENT EDITION". COMPLY WITH FAA-STD-1217H AND FAA-STD-019F.

2. THE LIGHTNING PROTECTION SYSTEM COMPONENTS SHALL COMPLY WITH NFPA 780 CLASS-II SYSTEM INSTALLATION REQUIREMENTS.

3. ALL METALLIC DEVICES WITHIN 6' OF ROOF COUNTERPOISE OR DOWN CONDUCTORS SHALL BE BONDED TO LIGHTNING PROTECTION SYSTEM.

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WW JOB NUMBER: 219075.00

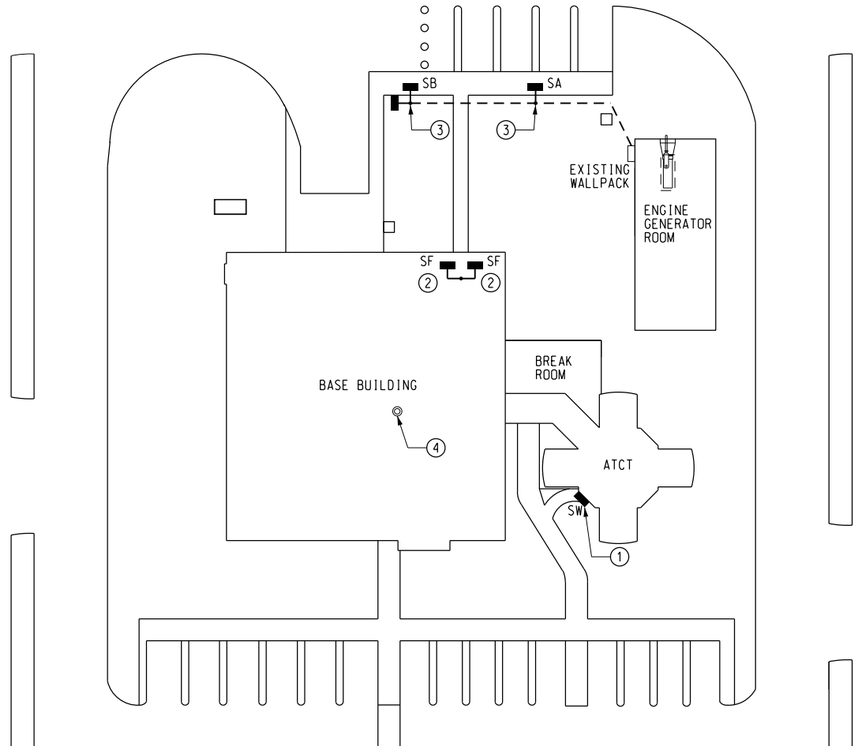
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
GENERAL NOTES

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
	DESIGNED JMC	ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
	DRAWN JMC	DATE JAN 31, 2020 JCN 1508912
	CHECKED MAK	DRAWING NO FLL-D-TRACO-E001 REV



1 E050 ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

GENERAL NOTES

A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN IS LIGHT SOLID LINE.

B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

KEY NOTES

(1) EXISTING SECURITY LIGHT TO BE REPLACED. CONNECT NEW FIXTURE TO EXISTING CIRCUIT AND TIMER, SERVED BY PANEL NLPA-1.

(2) REPLACE EXISTING LIGHT FIXTURE WITH NEW LED FLOOD LIGHT FIXTURE HEAD. CONNECT TO EXISTING CIRCUIT FED FROM PANEL NLPA-1 AND TIME CLOCK CONTROLS.

(3) NEW 25FT LED LIGHT POLE FIXTURE. CONNECT FIXTURE TO EXISTING SITE LIGHTING CIRCUIT AND PHOTOCELL/TIME CLOCK USING 2#12, #12G IN 3/4"C. EXISTING CIRCUIT IS SERVED BY PANEL EPGL LOCATED IN ELECTRICAL ROOM EG02. SEE DETAIL 5, TRACO-E601 FOR POLE BASE INFORMATION.

(4) NEW EXHAUST FAN EF-2. CONNECT TO EXISTING CIRCUIT AND CONDUIT SERVED FROM PANEL NPA. EXTEND WIRE AND CONDUIT AS REQUIRED FOR NEW CONNECTION.

N

20' 0 20' 40'

1" = 20' - 0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 11/31/2019

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WW JOB NUMBER: 219075.00

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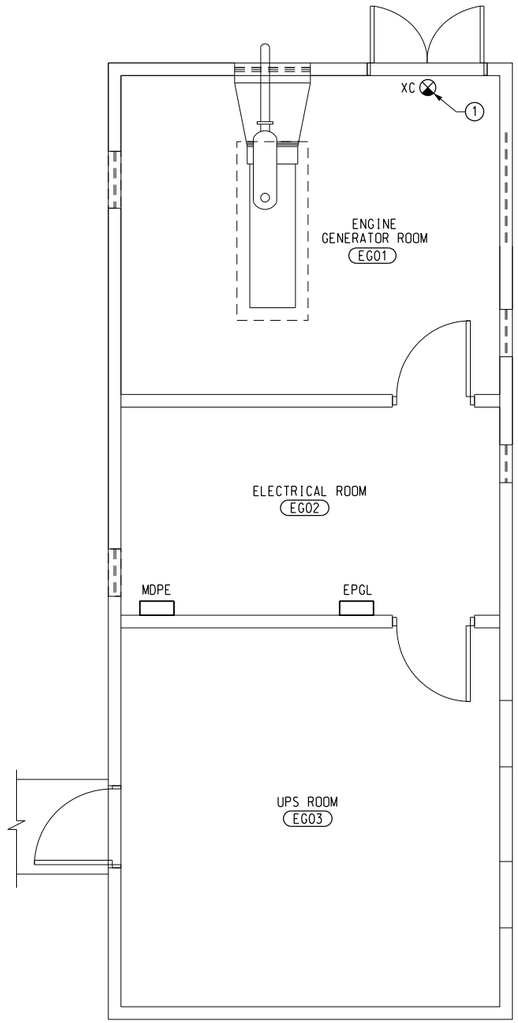
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ELECTRICAL SITE PLAN

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED BRP	ISSUED BY	DATE JAN 31, 2020	JCN 1508912
DRAWN CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO	REV
CHECKED MRK		FLL-D-TRACO-E050	



1 / E060 GENERATOR BUILDING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN IS LIGHT SOLID LINE.

B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

KEY NOTES

(1) PROVIDE NEW LED EXIT SIGN WITH 90 MINUTE BATTERY BACKUP. CONNECT NEW EXIT SIGN TO EXISTING EMERGENCY CIRCUIT FED FROM PANEL EPGL.

N

4' 0 4' 8'

1/4" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

GEORGIA REGISTERED 11/31/2019 No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY

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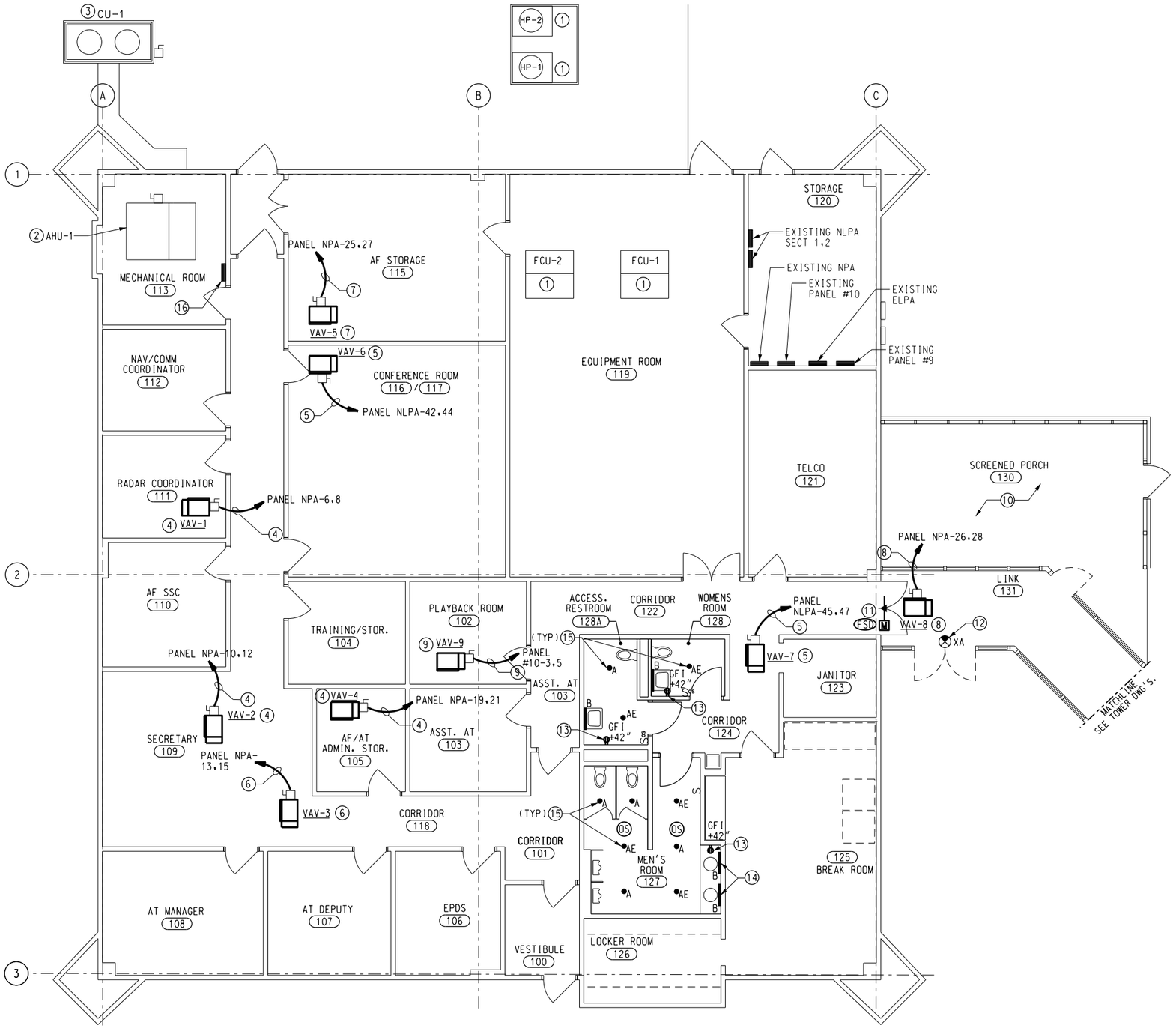
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
GENERATOR BUILDING PLAN

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
DESIGNED BRP	ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN. 31, 2020 JCN 1508912
DRAWN CRK		DRAWING NO FLL-D-TRACO-E060 REV
CHECKED MRK		



1 / E120 BASE BUILDING POWER PLAN

SCALE: 3/16" = 1' - 0"

KEY NOTES

1. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2. EXISTING MECHANICAL UNIT AHU-1.
3. EXISTING MECHANICAL UNIT CU-1.
4. NEW MECHANICAL VAV UNIT. FACTORY INSTALLED INTEGRAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE 20A, 2-POLE BREAKER IN PANEL NPA, USE EXISTING BREAKER IF APPLICABLE. REPLACE CIRCUIT WIRING BACK TO PANEL WITH NEW 3-#12AWG, #12G IN EXISTING 3/4"C.
5. NEW MECHANICAL VAV UNIT. FACTORY INSTALLED INTEGRAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE 20A, 2-POLE BREAKER IN PANEL NLPA SECT 2, USE EXISTING BREAKER IF APPLICABLE. REPLACE CIRCUIT WIRING BACK TO PANEL WITH NEW 3-#12AWG, #12G IN EXISTING 3/4"C.
6. NEW MECHANICAL VAV UNIT. FACTORY INSTALLED INTEGRAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR. USE EXISTING 40A 2-POLE BREAKER IN PANEL NPA. REPLACE CIRCUIT WIRING BACK TO PANEL WITH NEW 3-#8AWG, #10G IN EXISTING 3/4"C.
7. NEW MECHANICAL VAV UNIT. FACTORY INSTALLED INTEGRAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR. REPLACE BREAKER IN PANEL NPA WITH 30A, 2-POLE BREAKER. REPLACE CIRCUIT WIRING BACK TO PANEL WITH NEW 3-#10AWG, #10G IN EXISTING 3/4"C.
8. NEW MECHANICAL VAV UNIT. FACTORY INSTALLED INTEGRAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR. REPLACE BREAKER IN PANEL NPA WITH 60A, 2-POLE BREAKER. CONTRACTOR SHALL REPLACE CIRCUIT WIRING AND CONDUIT BACK TO PANEL WITH NEW 3-#6AWG, #10G IN 1"C.
9. NEW MECHANICAL VAV UNIT. FACTORY INSTALLED INTEGRAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE 20A, 2-POLE BREAKER IN PANEL #10. CONTRACTOR SHALL PROVIDE NEW 3-#12AWG, #12G IN 3/4"C.
10. REINSTALL EXISTING CEILING FANS AND LIGHT FIXTURES FOLLOWING COMPLETION OF ARCHITECTURAL REMODELLING.
11. EXISTING FIRE SMOKE DAMPERS 1 & 2 TO BE REPLACED. DISCONNECT AND RECONNECT TO EXISTING CIRCUIT BEING FED FROM PANEL #9, CIRCUIT #16. REFER TO MECHANICAL DETAILS FOR MORE INFORMATION. COORDINATE ANY NEW LOCATIONS WITH MECHANICAL.
12. PROVIDE NEW LED EXIT SIGN WITH 90-MINUTE BATTERY BACKUP. CONNECT NEW TO EXISTING EMERGENCY CIRCUIT FED BY PANEL #9.
13. PROVIDE NEW GFI RECEPTACLE AND CONNECT TO EXISTING CIRCUIT SERVING SPACE FED BY PANEL NLPA-2.
14. NEW LED VANITY FIXTURE CONNECT TO EXISTING LIGHTING CIRCUIT FED BY PANEL NLPA-2.
15. NEW LED DOWNLIGHT CONNECT TO EXISTING CIRCUIT FED BY PANEL NLPA-2.
16. NEW DDC CONTROL PANEL. PROVIDE NEW CIRCUIT FROM PANEL #9-17. CONNECT CIRCUIT TO NEW 20A CIRCUIT BREAKER USING 2#12, #12G IN 3/4" CONDUIT.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 11/31/2019

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WW JOB NUMBER: 219075.00

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

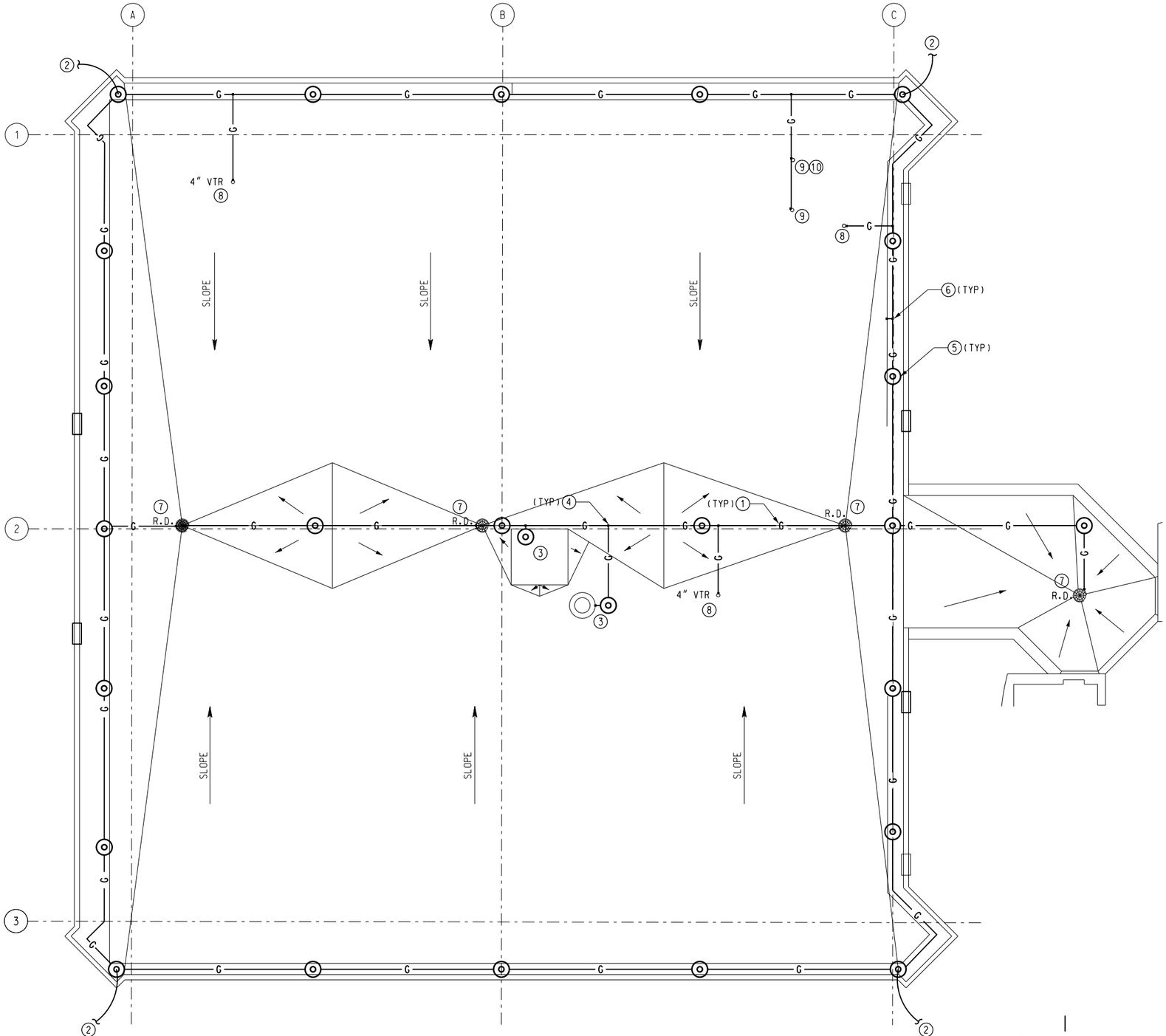
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ELECTRICAL BASE BUILDING POWER PLAN

FT LAUDERDALE (INTERNATIONAL) FL

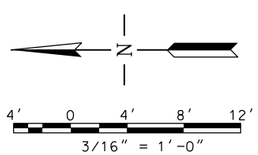
REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED BRP
DRAWN CRK
CHECKED MAK
ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN. 31, 2020
JCN 1508912
DRAWING NO FLL-D-TRACO-E120
REV



1 E160 BASE BUILDING ROOF & LIGHTNING PROTECTION PLAN

SCALE: 3/16" = 1' - 0"



GENERAL NOTES

A. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

B. REMOVE EXISTING LIGHTNING PROTECTION ROOF CONDUCTOR AND ACCESORIES TO FACILITATE ROOF REPLACEMENT. ROOF CONDUCTORS AND BONDS TO BE REPLACED.

C. ALL BASE BUILDING (TRACON) LIGHTNING PROTECTION SYSTEM CONDUCTOR SHALL BE CLASS II MATERIAL. CONDUCTORS, AIR TERMINALS AND ALL OTHER ACCESSORIES SHALL BE MADE OF COPPER, EXCEPT WHERE DISSIMILAR METALS REQUIRE ALUMINUM. USE BI-METALLIC CONNECTORS AS NEEDED TO CONNECT COPPER AND ALUMINUM MATERIALS.

D. DOWN CONDUCTOR TERMINATIONS TO THE EES SHALL BE EXOTHERMICALLY WELDED TO A 4/0 AWG COPPER CONDUCTOR PRIOR TO ENTERING THE GROUND AT NOT LESS THAN 18" ABOVE GRADE. THE 4/0 AWG COPPER CONDUCTOR SHALL BE BONDED DIRECTLY TO A GROUND ROD OR ELECTRODE CONDUCTOR IN THE EES (FAA-STD-019F, SECTION 4.3.5.1). DOWN CONDUCTOR CONDUIT SHALL END JUST ABOVE WELDING POINT. PROVIDE AN ACCESSIBLE JUNCTION BOX TO PROTECT WELD.BELOW WELD, BARE CONDUCTOR SHALL RUN INTO THE GROUND TO CONNECT TO COUNTERPOISE.

E. SUPPORT ROOF CONDUCTOR AT A MIN OF EVERY 3' UTILIZING AN ADHESIVE CABLE CLAMP THOMPSON 186X (OR EQUAL).

F. TEST AND CONFIRM THAT EXISTING EES RESISTANCE TO GROUND IS LESS THAN 10 OHMS (FAA-STD-019F, SECTION 4.4.3).

G. CONSULT WITH A LIGHTNING PROTECTION PROFESSIONAL TO PROVIDE TEMPORARY LIGHTNING PROTECTION PROVISIONS DURING CONSTRUCTION.

KEY NOTES

(1) CLASS II ROOF CONDUCTOR. THOMPSON 506T OR APPROVED EQUAL.

(2) CLASS II DOWN CONDUCTOR. THOMPSON 506T OR APPROVED EQUAL. BOND DOWN CONDUCTOR TO ROOF CONDUCTOR USING MECHANICAL TERMINATIONS PER DETAIL 1, SHEET TRACO-E601. DOWN CONDUCTORS SHALL EXTEND TO GROUND COUNTERPOISE WITHIN PVC CONDUIT. DOWN CONDUCTORS SHALL FOLLOW THE MOST DIRECT DOWNWARD COURSE, WHILE MAIN AND BONDING CONDUCTORS MUST MAINTAIN A DOWNWARD OR HORIZONTAL COURSE WITH NO BEND LESS THAN 90 DEGREES OR BEND RADIUS LESS THAN 8". ROOF AND DOWN CONDUCTORS SHALL BE FASTENED WITH CABLE HOLDER THOMPSON 186X OR APPROVED EQUAL, AT INTERVALS NOT MORE THAN 3'-0" AND SHALL BE THE SAME MATERIAL AS THE CONDUCTOR. BONDING DEVICES, CONDUCTOR SPLICES, CONDUCTOR ATTACHMENTS, AND CONNECTORS SHALL BE SUITABLE FOR USE WITH THE INSTALLED CONDUCTOR. WHERE DOWN CONDUCTOR ENCOUNTER CANOPY, ROUTE DOWN CONDUCTOR THROUGH 1" PVC SLEEVE. BOND CANOPY TO DOWN CONDUCTORS USING EXOTHERMIC WELD. BOND ALL METALLIC OBJECTS WITHIN 6' OF DOWN CONDUCTORS TO DOWN OR ROOF GROUNDING LOOP TO THE LIGHTINING PROTECTION SYSTEM WITH EXOTHERMIC WELD.

(3) PROVIDE EXHAUST FAN HOOD EQUIPMENT BOND AND AIR TERMINAL PER DETAIL 3, SHEET TRACO-E600.

(4) BONDING CONNECTION. SEE BONDING AND SPLICING DETAIL 1, SHEET TRACO-E601.

(5) 24" BLUNT-TIPPED AIR TERMINAL. FREE STANDING TERMINAL SHALL BE MOUNTED TO SUPPORTS PER DETAIL 3, SHEET TRACO-E601.

(6) BONDING JUMPER TO EACH RAILING SECTION. INSTALL AIR TERMINAL TO EACH HANDRAIL WITH TINNED BRONZE PIPE CLAMP PER DETAIL 4/E601.

(7) BOND ROOF CONDUCTOR TO ALL ROOF DRAINS PER DETAIL 1, SHEET TRACO-E600.

(8) BOND ROOF CONDUCTOR TO ALL MECH/PLUMBING VENTS PER DETAIL 2, SHEET TRACO-E600.

(9) BOND COPPER ROOF CONDUCTOR TO EXISTING ANTENNA MOUNT USING CONDUIT GROUND CLAMP PER DETAIL 5, SHEET TRACO-E600.

(10) TENON MOUNTED LIGHT FIXTURES TO BE REPLACED. COORDINATE BONDING WITH FIXTURE INSTALLATION. REFER TO ELECTRICAL SITE PLANS FOR MORE INFORMATION.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 11/31/2019

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

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WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
BASE BUILDING ROOF & LIGHTNING PROTECTION PLAN

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JMC | DRAWN JMC | CHECKED MRK | ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER | DATE JAN 31, 2020 | JCN 1508912 | DRAWING NO FLL-D-TRACO-E160 | REV

PANEL SCHEDULE (EXISTING)

DESIGNATION: **NPA**
FED FROM: **MDPN**
LOCATION: **STORAGE RM 120**

PANEL CHARACTERISTICS
MAIN: **225** A MCB **3** PHASE
BUS AMPERAGE: **225** AMPS **4** WIRE + GROUND
VOLTAGE: **120/208** VOLTS **100%** NEUTRAL
AIC: **EXIST.** MOUNTING: **SURFACE**

	Branch Circuit Load Description	kVA Loads A	kVA Loads B	kVA Loads C	Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads A	kVA Loads B	kVA Loads C	Branch Circuit Load Description	
	EF-2				20/1	1	A	2	20/2				UH-8	
	SPARE				20/1	3	B	4						
	WATER HEATER (EWH-1)				40/2	5		6	**20/2**			**1.25**	**VAV-1**	1
						7	A	8		**1.25**				
	UH-4				20/2	9	B	10	**20/2**		**1.00**		**VAV-2**	1
						11		12				**1.00**		
2	**VAV-3**	**3.00**			**40/2**	13	A	14	20/2				UH-1	
			3.00			15	B	16						
	SPACE					17		18	20/2				UH-2	
1	**VAV-4**	**1.00**			**20/2**	19	A	20						
			1.00			21	B	22	20/2				UH-3	
	SPRINKLER CONTROL				20/1	23		24						
1	**VAV-5**	**2.00**			**30/2**	25	A	26	**60/3**	**4.50**			**VAV-8**	1
			2.00			27	B	28			**4.50**			
	SPARE				20/1	29		30						
	SPD				30/3	31	A	32	20/3				BOOSTER PUMPS BP-1 & BP-2	
						33	B	34						
						35		36						
	SPRINKLER PUMP				20/3	37	A	38	30/3				SUMP PUMP	
						39	B	40						
						41		42						
		6.00	6.00		<< PHASE SUB-TOTALS >>					5.75	5.50	2.25		

PHASE TOTALS:	Phase A	Phase B	Phase C	
	11.75	11.50	2.25	kVA

LOAD SUMMARY (KVA)

LOAD TYPE		CONNECTED	DEMAND
Lighting			
Receptacles			
UPS	Receptacles		
	Racks		
Equipment: Continuous			
Equipment: Non-Continuous			
Kitchen			
Mechanical: Concurrent		25.50	20.40
Mech: Non-Concurrent			
Supplimental AC			
TOTALS (kVA)		**25.50**	**20.40**

25.50 kVA - TOTAL CONNECTED LOAD
20.40 kVA - TOTAL DEMAND LOAD
56.62 AMPS - DEMAND

PROVIDE THE FOLLOWING:

EXISTING DISTRIBUTION BOARD SCHEDULE

DESIGNATION: **MDPE**
FED FROM: **MAIN ATS**
LOCATION: **EG BUILDING EG02**

DISTRIBUTION BOARD CHARACTERISTICS
MAIN: **MLO** **3** PHASE
BUS AMPERAGE: **800** AMPS **4** WIRE + GROUND
VOLTAGE: **120/208** VOLTS **100%** NEUTRAL
AIC: **EXIST.** MOUNTING: **SURFACE**

Circuit Number	Load Description	kVA Loads Phase A	kVA Loads Phase B	kVA Loads Phase C	Total kVA Loads Connected	Total kVA Loads Demand	Overcurrent Device Frame	Overcurrent Device Trip	Overcurrent Device Poles	Remarks
1	PANEL NPA						250	225	3	
2	PANEL NLPA						250	225	3	
3	PANEL ELPT						250	225	3	
4	PANEL NLPTA						250	225	3	
5	PANEL NLPT						250	225	3	
6	PANEL EGPL						250	225	3	
7	PANEL #9						150	125	3	
8	PANEL #10						250	225	3	
9	RR/RT XFMR						150	125	3	
10	PANEL ELPA						150	100	3	
11	UPS STATIC BYPASS						400	400	3	
12	UPS INPUT						400	400	3	
13	UPS MAINT BYPASS						300	300	3	
14	ELEVATOR ATS NORMAL						150	150	3	

PHASE TOTALS:	Phase A	Phase B	Phase C	
				kVA

LOAD SUMMARY (KVA)

LOAD TYPE		CONNECTED	DEMAND
Lighting			
Receptacles			
UPS	Receptacles		
	Racks		
Equipment: Continuous			
Equipment: Non-Continuous			
Kitchen			
Mechanical: Concurrent			
Mech: Non-Concurrent			
Supplimental AC			
TOTALS (kVA)			

kVA - TOTAL CONNECTED LOAD
kVA - TOTAL DEMAND LOAD
AMPS - DEMAND

PROVIDE THE FOLLOWING:

GENERAL NOTES:

A. CIRCUIT ASSIGNMENTS TO NEW AND EXISTING LOADS ARE USED FOR REFERENCE ONLY. ACTUAL CIRCUIT ASSIGNMENT OF EXISTING LOADS AND AVAILABILITY OF ACTUAL SPARE CIRCUIT BREAKERS AND SPACES AVAILABLE IN EXISTING PANELS SHALL BE FIELD VERIFIED PRIOR TO THE BEGINNING OF NEW CONSTRUCTION.

B. VERIFY ALL CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT ON DRAWINGS. FOR ANY VACATED CIRCUITS, REMOVE CONDUIT AND WIRING BACK TO PANEL, TURN BREAKER OFF, AND MARK BREAKER AS 'SPARE'.

C. PROVIDE NEW TYPEWRITTEN PANELBOARD DIRECTORY TO INDICATE ACTUAL CIRCUITS USED, UPON COMPLETION OF WORK.

D. CONTRACTOR SHALL REUSE EXISTING SPARE CIRCUIT BREAKERS OR EXISTING BREAKERS THAT HAVE BECOME AVAILABLE FOLLOWING DEMOLITION. PROVIDE NEW BREAKERS AS REQUIRED WITH TYPE, VOLTAGE RATING, AND AIC RATING MATCHING THE EXISTING BREAKER.

KEY NOTES:

1. REPLACE CIRCUIT BREAKER AND WIRING. CONDUIT TO REMAIN.
2. CIRCUIT TO BE REPURPOSED. REUSE BREAKER AND CONDUIT, WIRING TO BE REPLACED.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED 1/31/2020 No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
PANEL SCHEDULES

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
DESIGNED JMC	ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN 31, 2020 JCN 1508912
DRAWN JMC		DRAWING NO FLL-D-TRACO-E500 REV
CHECKED MRK		

PANEL SCHEDULE (EXISTING)

DESIGNATION: **ELPA**

FED FROM: **MDPE**
LOCATION: **STORAGE RM 120**

PANEL CHARACTERISTICS
MAIN: **MLO** **3** PHASE
BUS AMPERAGE: **100** AMPS **4** WIRE + GROUND
VOLTAGE: **120/208** VOLTS **100%** NEUTRAL
AIC: **EXIST.** MOUNTING: **SURFACE**

Branch Circuit Load Description	kVA Loads A	kVA Loads B	kVA Loads C	Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads A	kVA Loads B	kVA Loads C	Branch Circuit Load Description
LIGHTING				20/1	1	A	2	20/1				RECEPTACLES
RECEPTACLES				20/1	3	B	4	20/1				LIGHTS RM 119,120,121
RECEPTACLES				20/1	5	C	6	20/1				LIGHTS LINK
SPD				30/3	7	A	8	35/3				FCU-2
					9	B	10					
					11	C	12					
FCU-1				35/3	13	A	14	20/1				BPS
					15	B	16	20/1				FACP
					17	C	18	30/2				FTI
AHU-1				40/3	19	A	20					
					21	B	22	30/2				FTI
					23	C	24					
AHU-1/FCU-1&2 CONTROL PANELS				20/1	25	A	26	20/1				CYPHER LOCKS
SPACE					27	B	28	20/2				EF-3
EF-3 CONTROL BOX				20/1	29	C	30					
SPACE					31	A	32					SPACE
SPACE					33	B	34					SPACE
SPACE					35	C	36					SPACE
SPACE					37	A	38					SPACE
SPACE					39	B	40					SPACE
SPACE					41	C	42					SPACE
				<< PHASE SUB-TOTALS >>								

	Phase A	Phase B	Phase C	
PHASE TOTALS:				kVA

LOAD SUMMARY (KVA)

LOAD TYPE		CONNECTED	DEMAND
Lighting			
Receptacles			
UPS	Receptacles		
	Racks		
Equipment: Continuous			
Equipment: Non-Continuous			
Kitchen			
Mechanical: Concurrent			
Mech: Non-Concurrent			
Supplimental AC			
TOTALS (kVA)			

	kVA - TOTAL CONNECTED LOAD
	kVA - TOTAL DEMAND LOAD
	AMPS - DEMAND

PROVIDE THE FOLLOWING:

PANEL SCHEDULE (EXISTING)

DESIGNATION: **NLPA** **SECTION 2**

FED FROM: **NLPA SECTION 1**
LOCATION: **STORAGE RM 120**

PANEL CHARACTERISTICS
MAIN: **MLO** **3** PHASE
BUS AMPERAGE: **225** AMPS **4** WIRE + GROUND
VOLTAGE: **120/208** VOLTS **100%** NEUTRAL
AIC: **EXIST.** MOUNTING: **SURFACE**

	Branch Circuit Load Description	kVA Loads A	kVA Loads B	kVA Loads C	Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads A	kVA Loads B	kVA Loads C	Branch Circuit Load Description	
	RECEPTACLE				20/1	37	A	38	20/1				RECEPTACLE	
	SPARE				20/1	39	B	40	20/1				RECEPTACLE	
	SPARE				20/1	41	C	42	**20/2**			**1.00**	**VAV-6**	(1)
	RECEPTACLE				20/1	43	A	44		**1.00**				
(2)	**VAV-7**		**1.25**		**20/2**	45	B	46	20/1				CEILING FAN ROOM 130	
				1.25		47	C	48	20/1				CEILING FAN ROOM 125	
	EWC-2, LOBBY				20/1	49	A	50	20/1				CYPHER LOCKS	
	SPARE				20/1	51	B	52	20/1				SPARE	
	SPARE				20/1	53	C	54					SPARE	
	SPD				30/3	55	A	56					SPARE	
						57	B	58					SPARE	
						59	C	60					SPARE	
	SPACE					-	A	-					SPACE	
	SPACE					-	B	-					SPACE	
	SPACE					-	C	-					SPACE	
	SPACE					-	A	-					SPACE	
	SPACE					-	B	-					SPACE	
	SPACE					-	C	-					SPACE	
	SPACE					-	A	-					SPACE	
	SPACE					-	B	-					SPACE	
	SPACE					-	C	-					SPACE	
			1.25	1.25	<< PHASE SUB-TOTALS >>					1.00		1.00		

	Phase A	Phase B	Phase C	
PHASE TOTALS:	1.00	1.25	2.25	kVA

LOAD SUMMARY (KVA)

LOAD TYPE		CONNECTED	DEMAND
Lighting			
Receptacles			
UPS	Receptacles		
	Racks		
Equipment: Continuous			
Equipment: Non-Continuous			
Kitchen			
Mechanical: Concurrent		4.50	3.60
Mech: Non-Concurrent			
Supplimental AC			
TOTALS (kVA)		**4.50**	**3.60**

4.50	**kVA - TOTAL CONNECTED LOAD**
3.60	**kVA - TOTAL DEMAND LOAD**
9.99	**AMPS - DEMAND**

PROVIDE THE FOLLOWING:

GENERAL NOTES:

A. CIRCUIT ASSIGNMENTS TO NEW AND EXISTING LOADS ARE USED FOR REFERENCE ONLY. ACTUAL CIRCUIT ASSIGNMENT OF EXISTING LOADS AND AVAILABILITY OF ACTUAL SPARE CIRCUIT BREAKERS AND SPACES AVAILABLE IN EXISTING PANELS SHALL BE FIELD VERIFIED PRIOR TO THE BEGINNING OF NEW CONSTRUCTION.

B. VERIFY ALL CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT ON DRAWINGS. FOR ANY VACATED CIRCUITS, REMOVE CONDUIT AND WIRING BACK TO PANEL, TURN BREAKER OFF, AND MARK BREAKER AS 'SPARE'.

C. PROVIDE NEW TYPEWRITTEN PANELBOARD DIRECTORY TO INDICATE ACTUAL CIRCUITS USED, UPON COMPLETION OF WORK.

D. CONTRACTOR SHALL REUSE EXISTING SPARE CIRCUIT BREAKERS OR EXISTING BREAKERS THAT HAVE BECOME AVAILABLE FOLLOWING DEMOLITION. PROVIDE NEW BREAKERS AS REQUIRED WITH TYPE, VOLTAGE RATING, AND AIC RATING MATCHING THE EXISTING BREAKER.

KEY NOTES:

(1) CIRCUIT TO BE REPURPOSED. REUSE BREAKER AND CONDUIT, WIRING TO BE REPLACED.

(2) REPLACE CIRCUIT BREAKER AND WIRING. CONDUIT TO REMAIN.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED 1/31/2020 No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY

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wileywilson.com

WW JOB NUMBER: 219075.00

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
PANEL SCHEDULES

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY		APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER		APPROVER'S TITLE - MANAGER
	DESIGNED JMC	ISSUED BY	DATE JAN. 31, 2020 JCN 1508912
	DRAWN JMC	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO FLL-D-TRACO-E501 REV
	CHECKED MRK		

PANEL SCHEDULE (EXISTING)

DESIGNATION: **#9**
FED FROM: **MDPE**
LOCATION: **STORAGE RM 120**

PANEL CHARACTERISTICS
MAIN: **MLO** **3** PHASE
BUS AMPERAGE: **125** AMPS **4** WIRE + GROUND
VOLTAGE: **120/208** VOLTS **100%** NEUTRAL
AIC: **EXIST.** MOUNTING: **SURFACE**

Branch Circuit Load Description	kVA Loads A	kVA Loads B	kVA Loads C	Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads A	kVA Loads B	kVA Loads C	Branch Circuit Load Description
HP-2				70/3	1	A	2	30/1				SPACE
					3	B	4	20/1				SPACE
					5	C	6	20/1				SPACE
HP-1				70/3	7	A	8	30/3				SPD
					9	B	10					
					11	C	12					
FUEL LEVEL INDICATOR				20/1	13	A	14	20/1				FACP
FUEL LEVEL INDICATOR				20/1	15	B	16	20/1				FSD-2
SPARE				20/1	17	C	18	20/1				SPARE
SPARE				20/1	19	A	20	20/1				EXIT LIGHTS
FSD-1				20/1	21	B	22	20/1		0.50		**DDC CONTROL PANEL** ← (1)
SPARE				20/1	23	C	24	20/1				SPARE
SPARE				20/1	25	A	26	20/1				SPARE
SPARE				20/1	27	B	28	20/1				SPACE
SPARE				20/1	29	C	30	20/1				SPACE
SPACE					31	A	32					SPACE
SPACE					33	B	34					SPACE
SPACE					35	C	36					SPACE
SPACE					37	A	38					SPACE
SPACE					39	B	40					SPACE
SPACE					41	C	42					SPACE
				<< PHASE SUB-TOTALS >>						0.50		

PHASE TOTALS:	Phase A	Phase B	Phase C	kVA
		0.50		

LOAD SUMMARY (KVA)

LOAD TYPE		CONNECTED	DEMAND
Lighting			
Receptacles			
UPS	Receptacles		
	Racks		
Equipment: Continuous		0.50	0.40
Equipment: Non-Continuous			
Kitchen			
Mechanical: Concurrent			
Mech: Non-Concurrent			
Supplimental AC			
TOTALS (kVA)		0.50	0.40

0.50 kVA - TOTAL CONNECTED LOAD
0.40 kVA - TOTAL DEMAND LOAD
1.11 AMPS - DEMAND

PROVIDE THE FOLLOWING:

PANEL SCHEDULE (EXISTING)

DESIGNATION: **#10**
FED FROM: **MDPE**
LOCATION: **STORAGE RM 120**

PANEL CHARACTERISTICS
MAIN: **MLO** **3** PHASE
BUS AMPERAGE: **250** AMPS **4** WIRE + GROUND
VOLTAGE: **120/208** VOLTS **100%** NEUTRAL
AIC: **EXIST.** MOUNTING: **SURFACE**

Branch Circuit Load Description	kVA Loads A	kVA Loads B	kVA Loads C	Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads A	kVA Loads B	kVA Loads C	Branch Circuit Load Description
CU-1 CONV. RECPT.				20/1	1	A	2	150/3				CU-1
VAV-9		1.00		**20/2**	3	B	4					
			1.00		5	C	6					
GATE				20/2	7	A	8	20/2				GATE
					9	B	10					
SPARE				20/1	11	C	12	20/1				SPARE
SPARE				20/1	13	A	14	20/1				SPARE
LIGHTING				50/2	15	B	16	20/1				SPARE
					17	C	18	20/1				SPARE
SPARE				30/3	19	A	20	30/3				SPD
					21	B	22					
					23	C	24					
RWSL				30/1	25	A	26	20/1				SPARE
RWSL				15/1	27	B	28					SPACE
SPACE					29	C	30					SPACE
SPACE					31	A	32					SPACE
SPACE					33	B	34					SPACE
SPACE					35	C	36					SPACE
SPACE					37	A	38					SPACE
SPACE					39	B	40					SPACE
SPACE					41	C	42					SPACE
	1.00	1.00		<< PHASE SUB-TOTALS >>								

PHASE TOTALS:	Phase A	Phase B	Phase C	kVA
		1.00	1.00	

LOAD SUMMARY (KVA)

LOAD TYPE		CONNECTED	DEMAND
Lighting			
Receptacles			
UPS	Receptacles		
	Racks		
Equipment: Continuous			
Equipment: Non-Continuous			
Kitchen			
Mechanical: Concurrent		36.80	29.44
Mech: Non-Concurrent			
Supplimental AC			
TOTALS (kVA)		36.80	29.44

36.80 kVA - TOTAL CONNECTED LOAD
29.44 kVA - TOTAL DEMAND LOAD
81.72 AMPS - DEMAND

PROVIDE THE FOLLOWING:

GENERAL NOTES:

A. CIRCUIT ASSIGNMENTS TO NEW AND EXISTING LOADS ARE USED FOR REFERENCE ONLY. ACTUAL CIRCUIT ASSIGNMENT OF EXISTING LOADS AND AVAILABILITY OF ACTUAL SPARE CIRCUIT BREAKERS AND SPACES AVAILABLE IN EXISTING PANELS SHALL BE FIELD VERIFIED PRIOR TO THE BEGINNING OF NEW CONSTRUCTION.

B. VERIFY ALL CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT ON DRAWINGS. FOR ANY VACATED CIRCUITS, REMOVE CONDUIT AND WIRING BACK TO PANEL, TURN BREAKER OFF, AND MARK BREAKER AS 'SPARE'.

C. PROVIDE NEW TYPEWRITTEN PANELBOARD DIRECTORY TO INDICATE ACTUAL CIRCUITS USED, UPON COMPLETION OF WORK.

D. CONTRACTOR SHALL REUSE EXISTING SPARE CIRCUIT BREAKERS OR EXISTING BREAKERS THAT HAVE BECOME AVAILABLE FOLLOWING DEMOLITION. PROVIDE NEW BREAKERS AS REQUIRED WITH TYPE, VOLTAGE RATING, AND AIC RATING MATCHING THE EXISTING BREAKER.

KEY NOTES:

(1) USE EXISTING SPARE BREAKER IN PANEL FOR NEW DDC CONTROL PANEL CIRCUIT.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED 11/31/2019 No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY

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WW JOB NUMBER: 219075.00

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

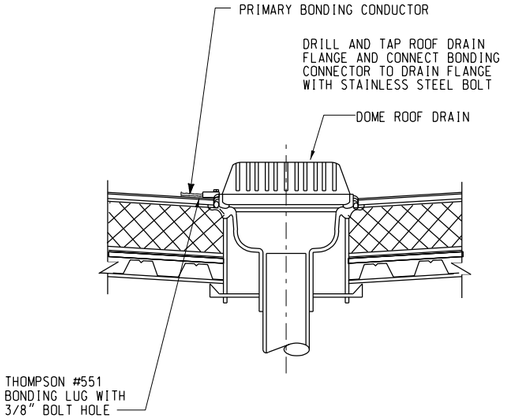
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
PANEL SCHEDULES

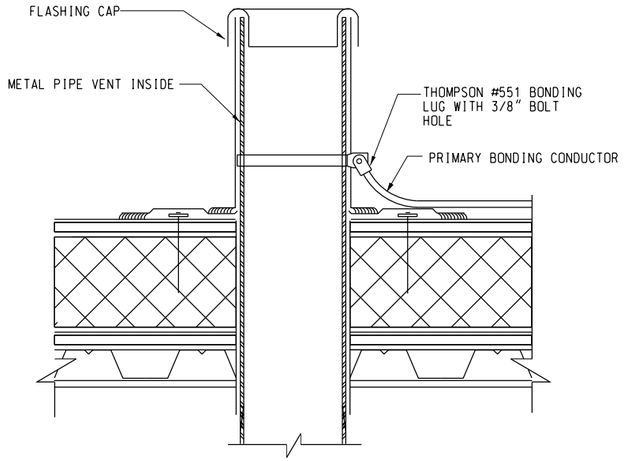
FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

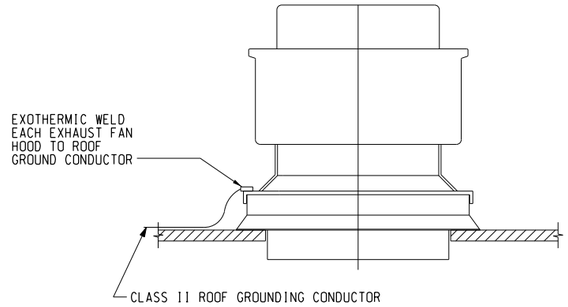
DESIGNED JMC | DRAWN JMC | CHECKED MRK | ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER | DATE JAN 31, 2020 | JCN 1508912 | DRAWING NO FLL-D-TRACO-E502 | REV



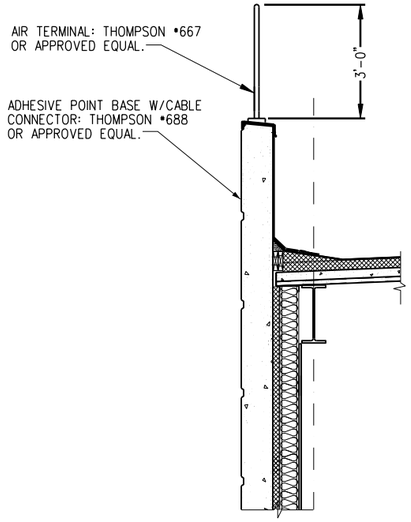
1 E600 ROOF DRAIN GROUNDING
NOT TO SCALE



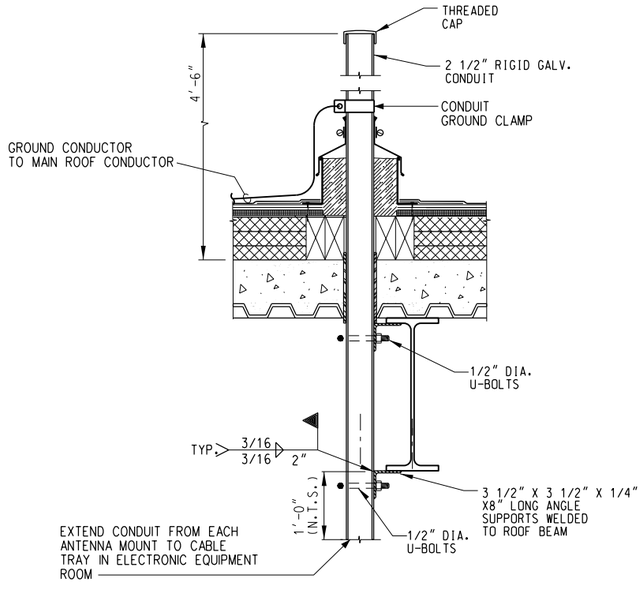
2 E600 ROOF VENT GROUNDING
NOT TO SCALE



3 E600 EXHAUST FAN HOOD GROUNDING
NOT TO SCALE



4 E600 PARAPET ROOF AIR TERMINAL
NOT TO SCALE



5 E600 ANTENNA MOUNT DETAIL
NOT TO SCALE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

GEORGIA REGISTERED 11/31/2019 No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ELECTRICAL DETAILS

FT LAUDERDALE (INTERNATIONAL) FL

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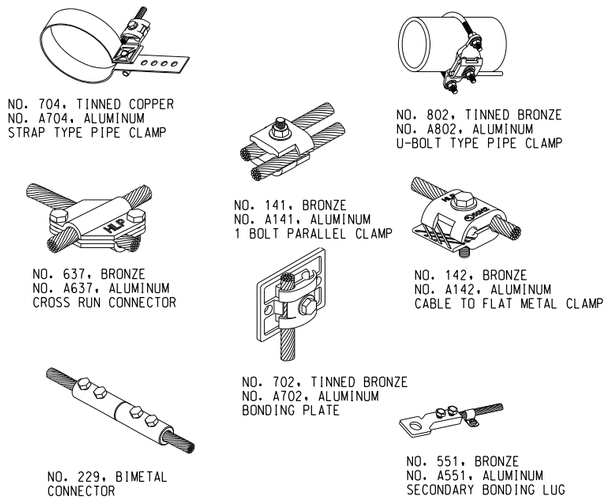
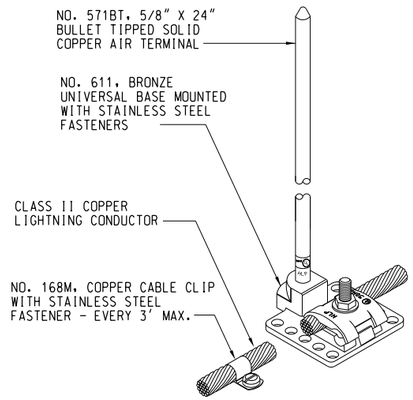
WW JOB NUMBER: 219075.00

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
DESIGNED JMC	ISSUED BY	DATE JAN 31, 2020 JCN 1508912
DRAWN CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO FLL-D-TRACO-E600 REV
CHECKED MAK		



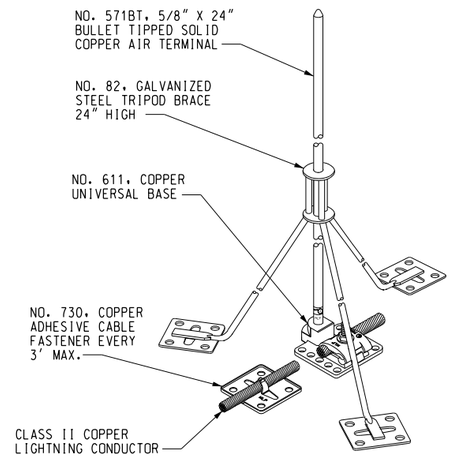
1 E601 TYPICAL BONDING/SPLICING DETAILS

NOT TO SCALE



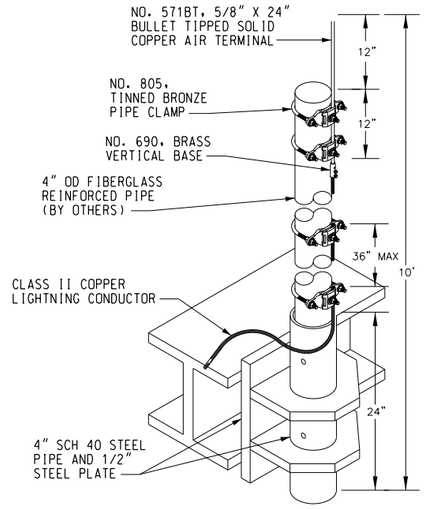
2 E601 AIR TERMINAL DETAIL

NOT TO SCALE



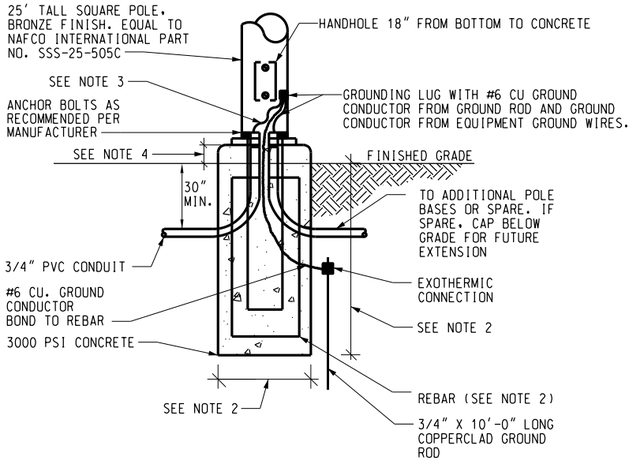
3 E601 AIR TERMINAL DETAIL

NOT TO SCALE



4 E601 AIR TERMINAL DETAIL

NOT TO SCALE



NOTES:

1. FURNISH POLE BASE TEMPLATE TO GENERAL CONTRACTOR PRIOR TO CONCRETE POUR.
2. POLE BASE SHALL BE 8'-0" IN DEPTH, 2'-0" DIAMETER WIDTH. PROVIDE #3 HORIZONTAL BARS AT 12" ON CENTER. PROVIDE 6-#6 VERTICAL BARS EQUALLY SPACED.
3. PROVIDE GROUNDING BUSHINGS PER NEC.
4. SET TOP OF CONCRETE FOUNDATION 4" ABOVE GRADE.

5 E601 POLE BASE DETAIL

NOT TO SCALE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

GEORGIA REGISTERED 11/31/2019 No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ELECTRICAL DETAILS

FT LAUDERDALE (INTERNATIONAL) FL

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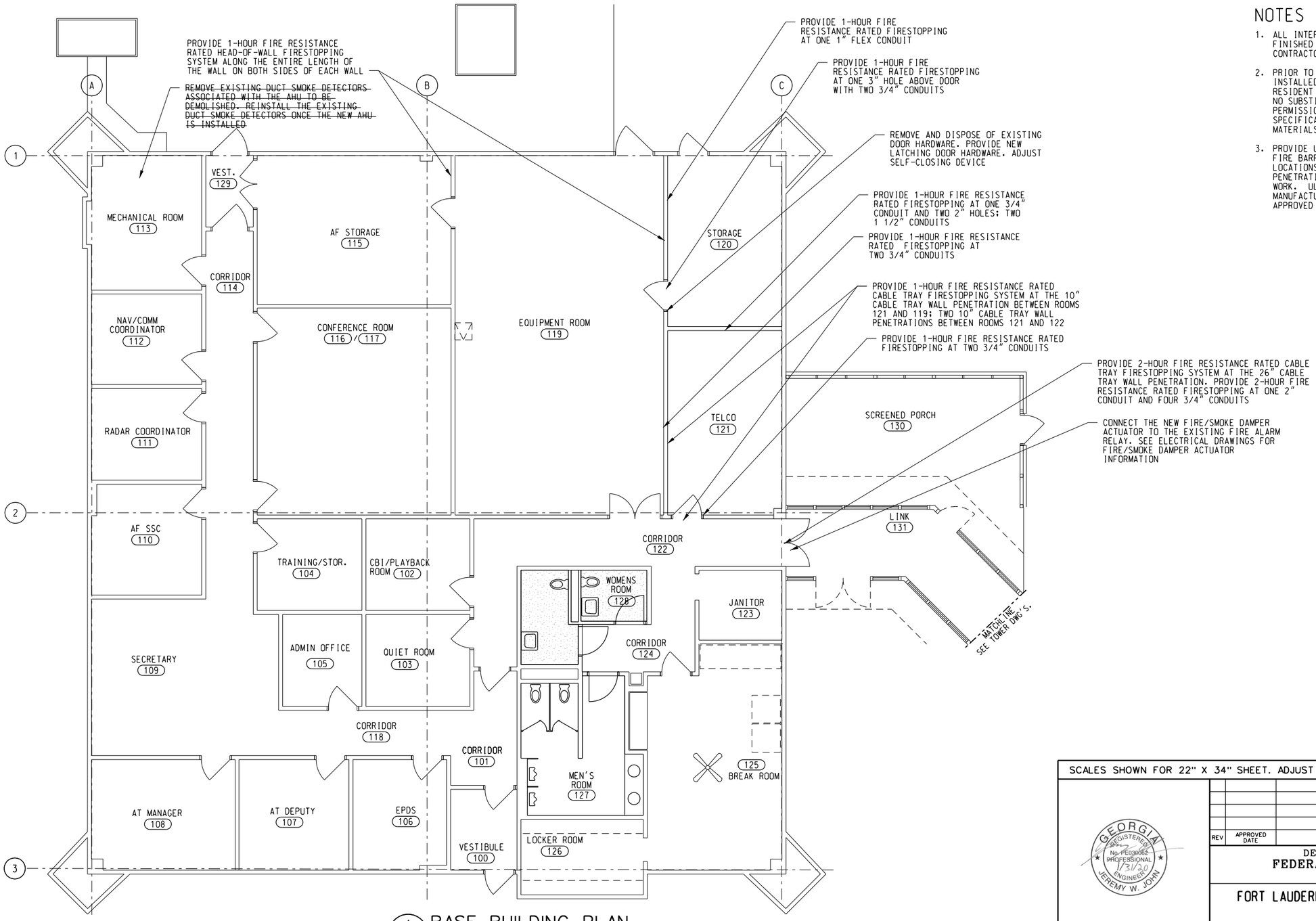
WW JOB NUMBER: 219075.00

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
DESIGNED JMC	ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN 31, 2020 JCN 1508912
DRAWN JMC		DRAWING NO FLL-D-TRACO-E601 REV
CHECKED JAB		



1 / F101 BASE BUILDING PLAN
SCALE: 3/16" = 1'-0"

NOTES

1. ALL INTERIOR WALLS, CEILINGS, FLOORS, DOORS AND OTHER FINISHED CONSTRUCTION THAT ARE DAMAGED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ORIGINAL CONDITION.
2. PRIOR TO ANY FIRESTOPPING MATERIALS OR ASSEMBLY BEING INSTALLED, THE CONTRACTOR SHALL HAVE SUBMITTED TO THE FAA RESIDENT ENGINEER MSDS OF ALL MATERIALS INTENDED FOR USE. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT THE WRITTEN PERMISSION OF THE RESIDENT ENGINEER. REFER TO SPECIFICATION SECTION 07840 FOR APPROVED FIRESTOPPING MATERIALS AND METHODS.
3. PROVIDE UL-LISTED ASSEMBLIES OR ENGINEERED SYSTEMS FOR ALL FIRE BARRIER AND FIRESTOPPING APPLICATIONS AT ALL REQUIRED LOCATIONS. FIRESTOPPING IS ALSO REQUIRED FOR ALL PENETRATIONS MADE BY THE CONTRACTOR FOR ALL DEMO AND NEW WORK. UL CLASSIFICATION PRODUCT DATA SHEET OR MANUFACTURER'S ENGINEERED SYSTEM SHALL BE SUBMITTED AND APPROVED BEFORE ANY FIRESTOPPING IS INSTALLED.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

GEORGIA REGISTERED No. PE030062 PROFESSIONAL ENGINEER JEREMY W. JOHN 1/31/20

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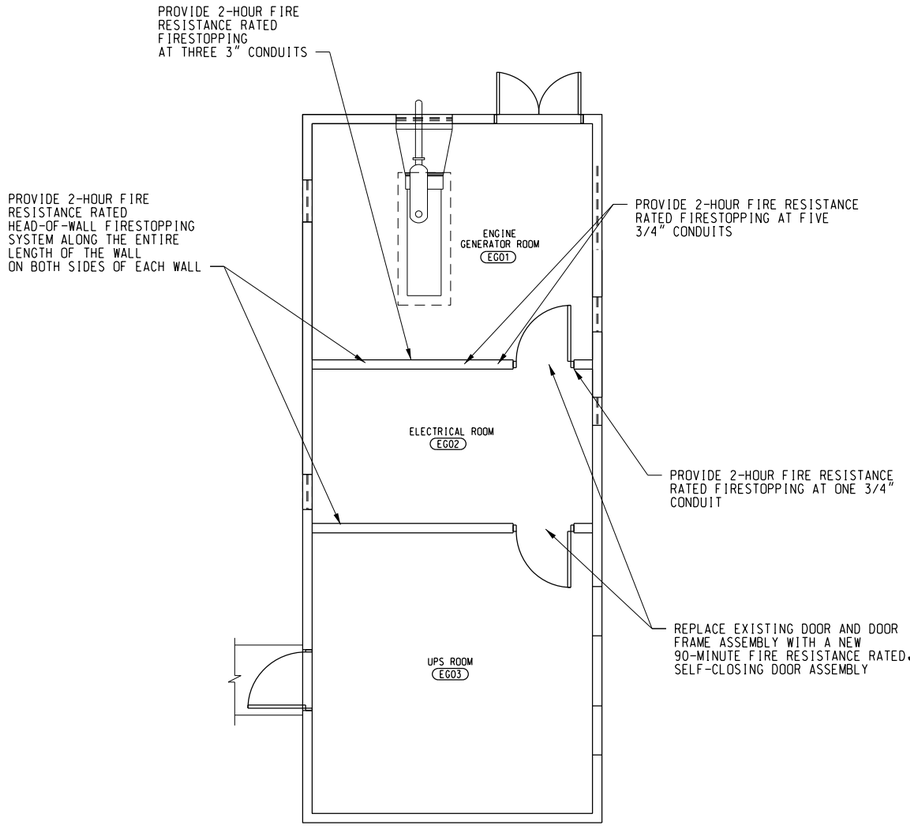
WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS BASE BUILDING AND LINK PLAN

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
DESIGNED JWJ	ISSUED BY	DATE JAN 31, 2020 JCN 1508912
DRAWN HJM	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO FLL-D-TRACO-F101 REV
CHECKED JWJ		

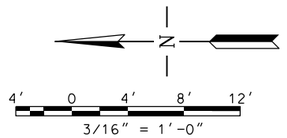


1 / F102 GENERATOR BUILDING PLAN

SCALE: 3/16" = 1'-0"

NOTES

1. ALL INTERIOR WALLS, CEILINGS, FLOORS, DOORS AND OTHER FINISHED CONSTRUCTION THAT ARE DAMAGED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ORIGINAL CONDITION.
2. PRIOR TO ANY FIRESTOPPING MATERIALS OR ASSEMBLY BEING INSTALLED, THE CONTRACTOR SHALL HAVE SUBMITTED TO THE FAA RESIDENT ENGINEER MSDS OF ALL MATERIALS INTENDED FOR USE. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT THE WRITTEN PERMISSION OF THE RESIDENT ENGINEER. REFER TO SPECIFICATION SECTION 07840 FOR APPROVED FIRESTOPPING MATERIALS AND METHODS.
3. PROVIDE UL-LISTED ASSEMBLIES OR ENGINEERED SYSTEMS FOR ALL FIRE BARRIER AND FIRESTOPPING APPLICATIONS AT ALL REQUIRED LOCATIONS. FIRESTOPPING IS ALSO REQUIRED FOR ALL PENETRATIONS MADE BY THE CONTRACTOR FOR ALL DEMO AND NEW WORK. UL CLASSIFICATION PRODUCT DATA SHEET OR MANUFACTURER'S ENGINEERED SYSTEM SHALL BE SUBMITTED AND APPROVED BEFORE ANY FIRESTOPPING IS INSTALLED.



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

GEORGIA REGISTERED No. PE030062 PROFESSIONAL ENGINEER 1/31/20 JEREMY W. JOHN

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WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
GENERATOR BUILDING PLAN

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JWJ | DRAWN HJM | CHECKED JWJ | ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER | DATE JAN 31, 2020 | JCN 1508912 | DRAWING NO FLL-D-TRACO-F102 | REV

AIRPORT TRAFFIC CONTROL TOWER
(ATCT)

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

ROBERT A. BASS
LICENSE
No. 44228
1/31/2020
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

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wileywilson.com

WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
GENERAL
COVER SHEET

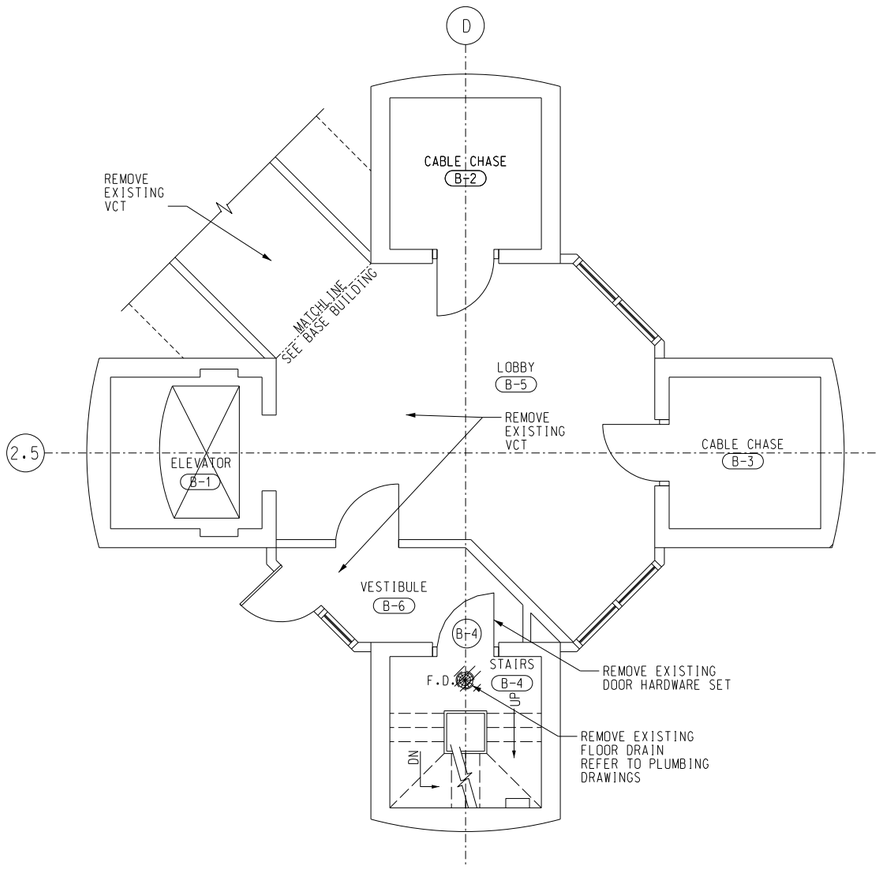
FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED CRK	ISSUED BY	DATE JAN 31, 2020	JCN 1508912
DRAWN CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO FLL-D-ATCT-G000	REV
CHECKED RAB			

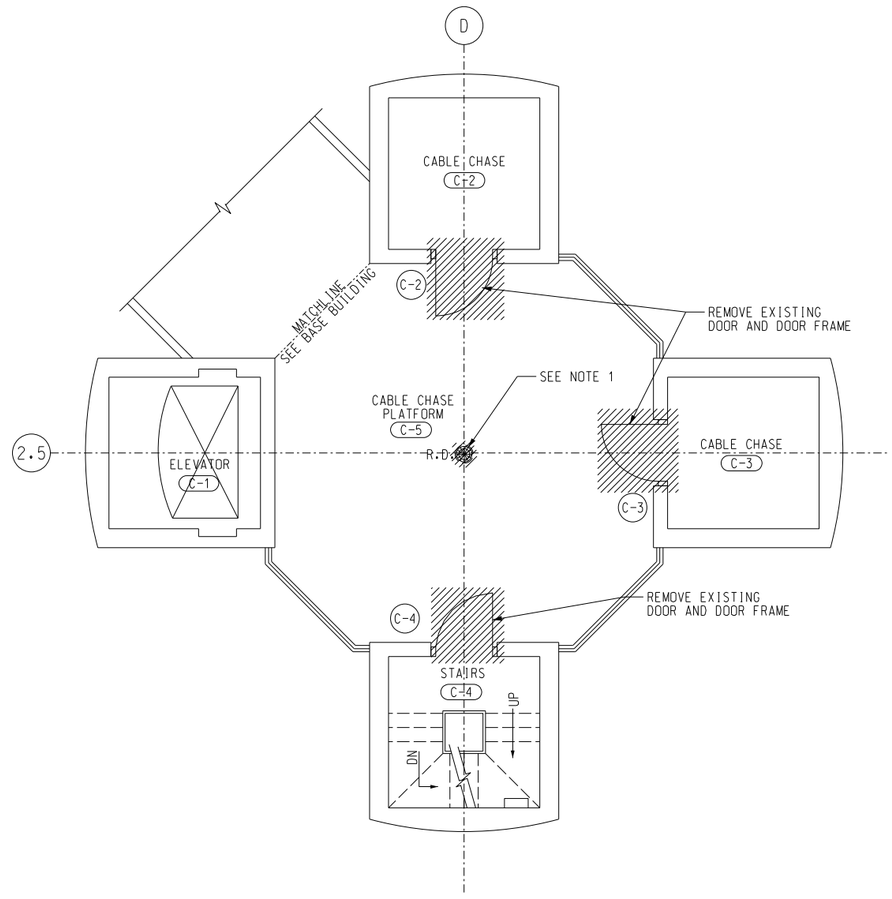
NOTES

1. REMOVE EXISTING 3" ROOF/STORM DRAIN PIPE. REFER TO ATCT-D400 FOR PLUMBING DEMOLITION.



1 D100 GROUND LEVEL DEMOLITION PLAN

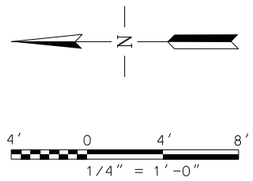
SCALE: 1/4" = 1' - 0"



2 D100 SECOND LEVEL DEMOLITION PLAN

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

NO WORK TO BE DONE ON THIS LEVEL



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

STATE OF GEORGIA
NEIL ESSER
CERTIFICATE NO. RA017674
REGISTERED ARCHITECT
01/31/2020

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
GROUND LEVEL AND SECOND LEVEL DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

Wiley|Wilson
5901 Peachtree Dunwoody Rd.
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WW JOB NUMBER: 219075.00

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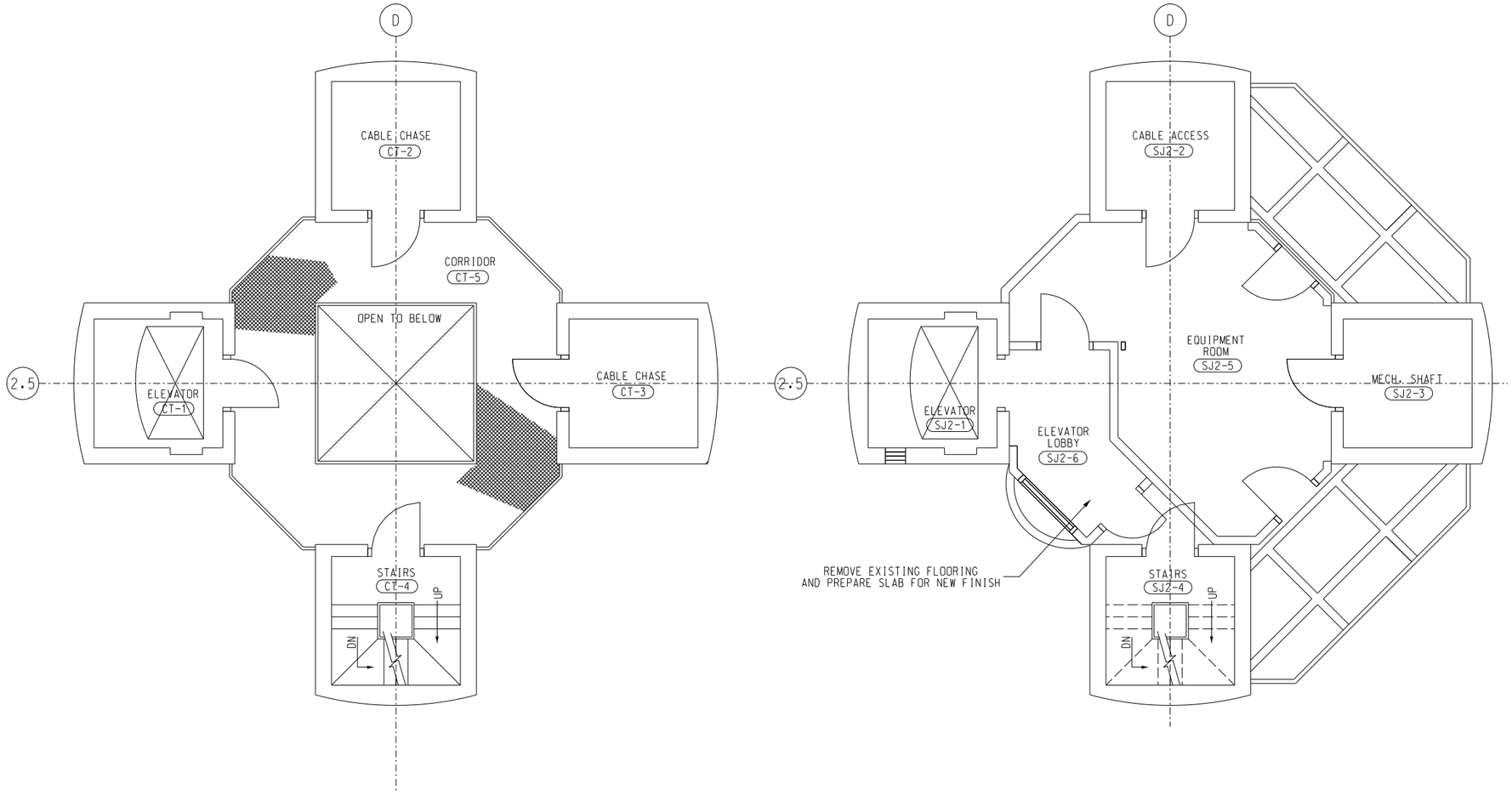
ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER

DESIGNED	GMR	DATE JAN 31, 2020	JCN 1508912
DRAWN	GMR	DRAWING NO	REV
CHECKED	NXE	FLL-D-ATCT-D100	



1 D101 CABLE ACCESS DEMOLITION PLAN

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

NO WORK TO BE DONE ON LEVELS 3RD, 4TH, 5TH, AND 6TH.

SEE A121 FOR CLEANING OF EXPOSED STRUCTURE ON LEVEL 7TH.

2 D101 SUBJUNCTION LEVEL 2 DEMOLITION PLAN

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

N

4' 0 4' 8'

1/4" = 1'-0"

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PAGE OF

STATE OF GEORGIA
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01/31/2020

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

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FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
CABLE ACCESS AND SUBJUNCTION LEVEL 2 - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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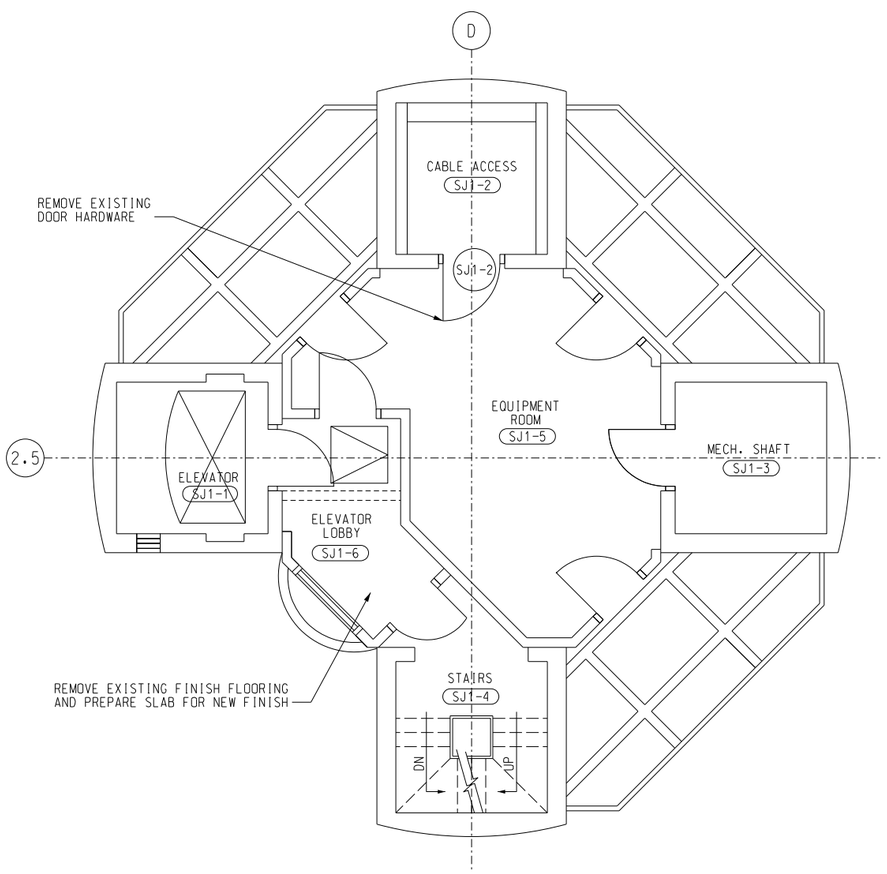
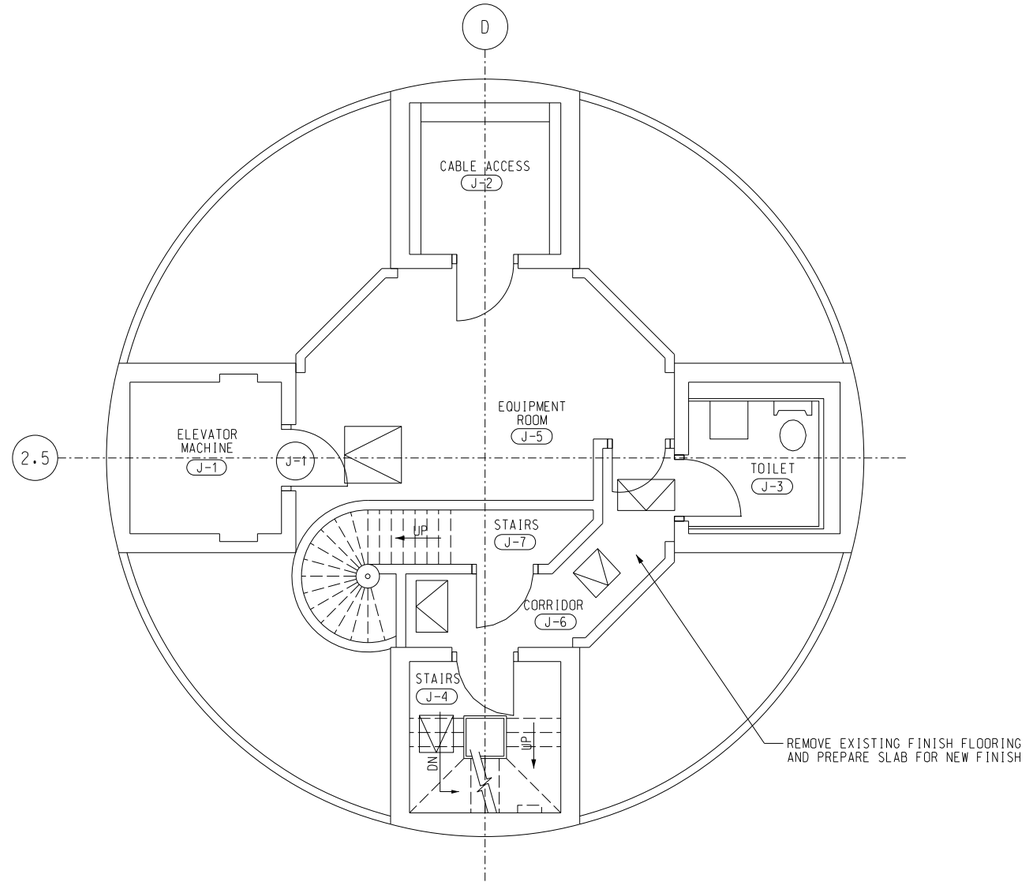
DESIGNED GMR	ISSUED BY	DATE JAN 31, 2020 JCN 1508912
DRAWN GMR	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO FLL-D-ATCT-D101 REV
CHECKED NXE		



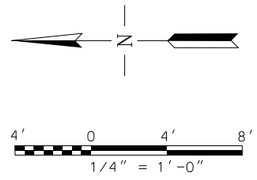
1 D102 SUBJUNCTION LEVEL 1 DEMOLITION PLAN

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



2 D102 JUNCTION LEVEL DEMOLITION PLAN

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



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

STATE OF GEORGIA
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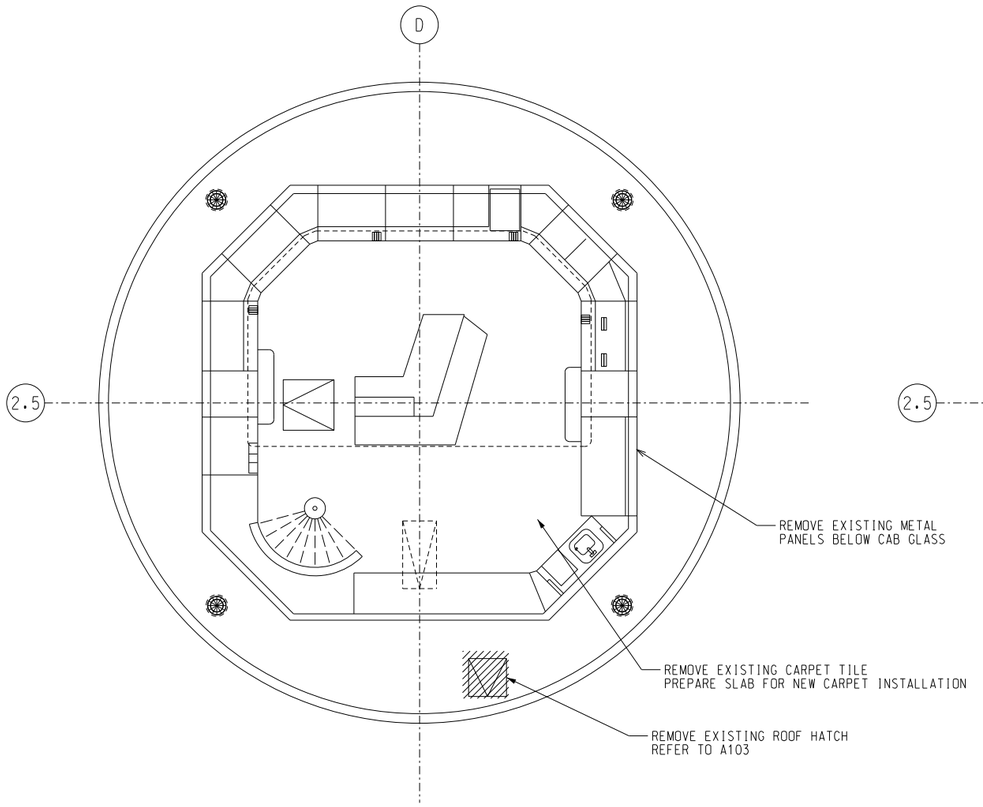
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

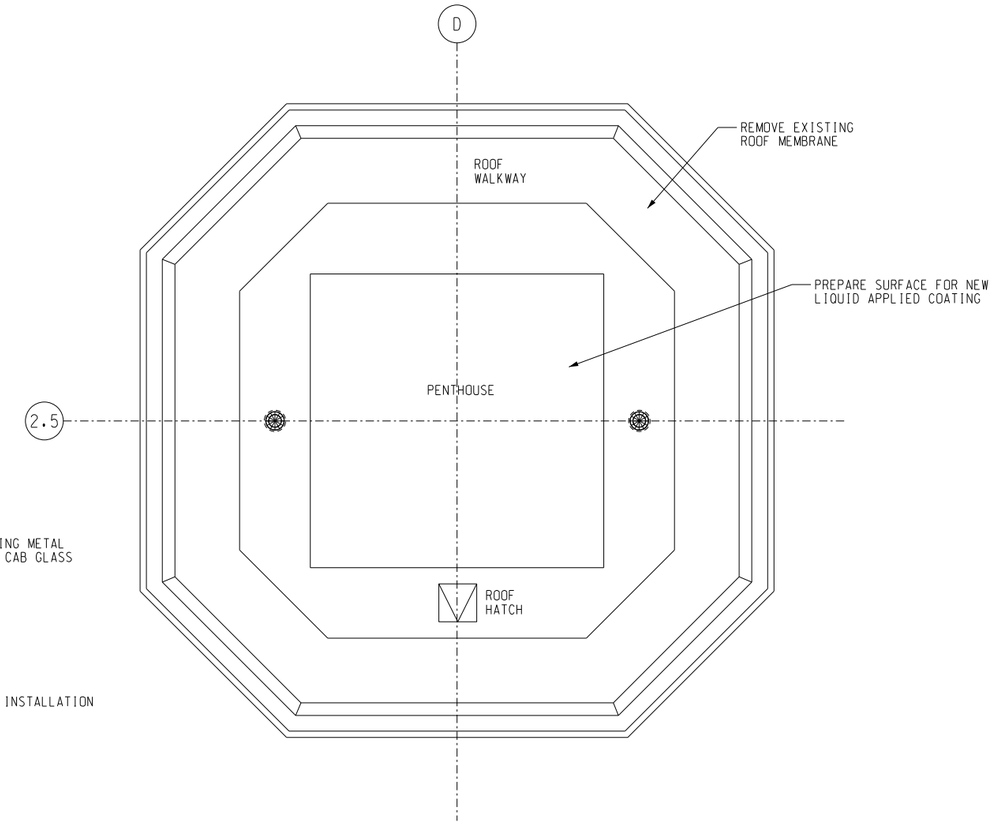
REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED GMR	ISSUED BY	DATE JAN 31, 2020	JCN 1508912
DRAWN GMR	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO	REV
CHECKED MDS		FLL-D-ATCT-D102	



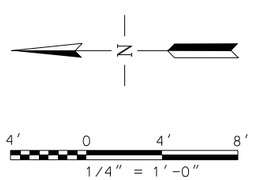
1 D103 CAB DEMOLITION PLAN

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



2 D103 ROOF DEMOLITION PLAN

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



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
CAB FLOOR AND ROOF PLANS DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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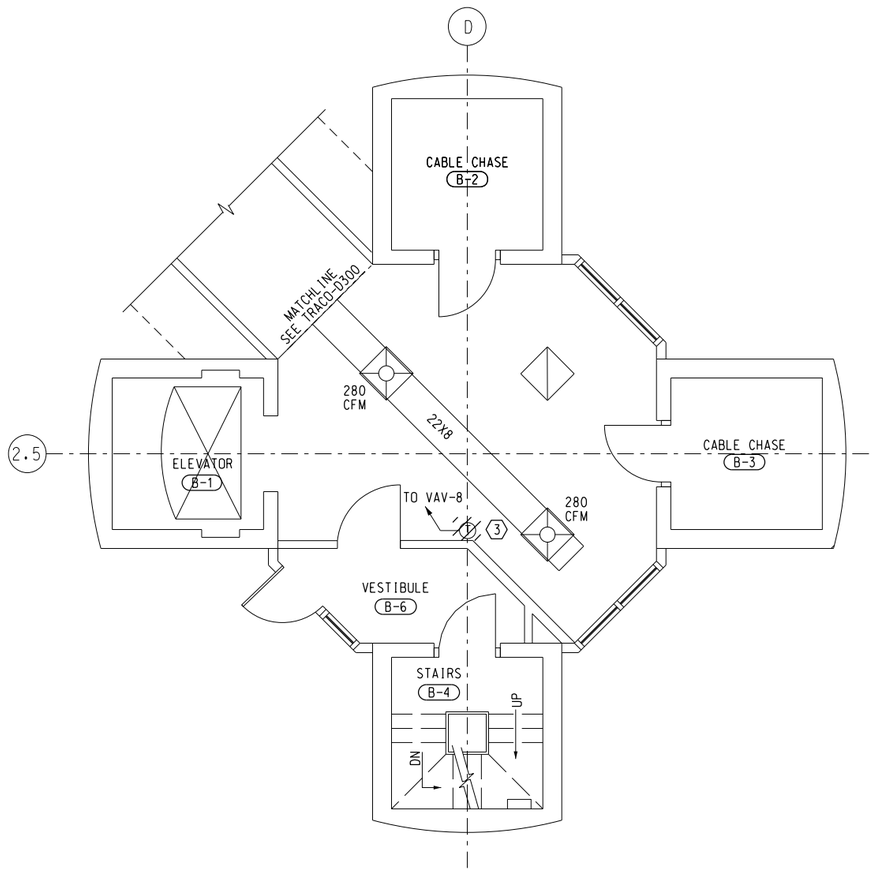
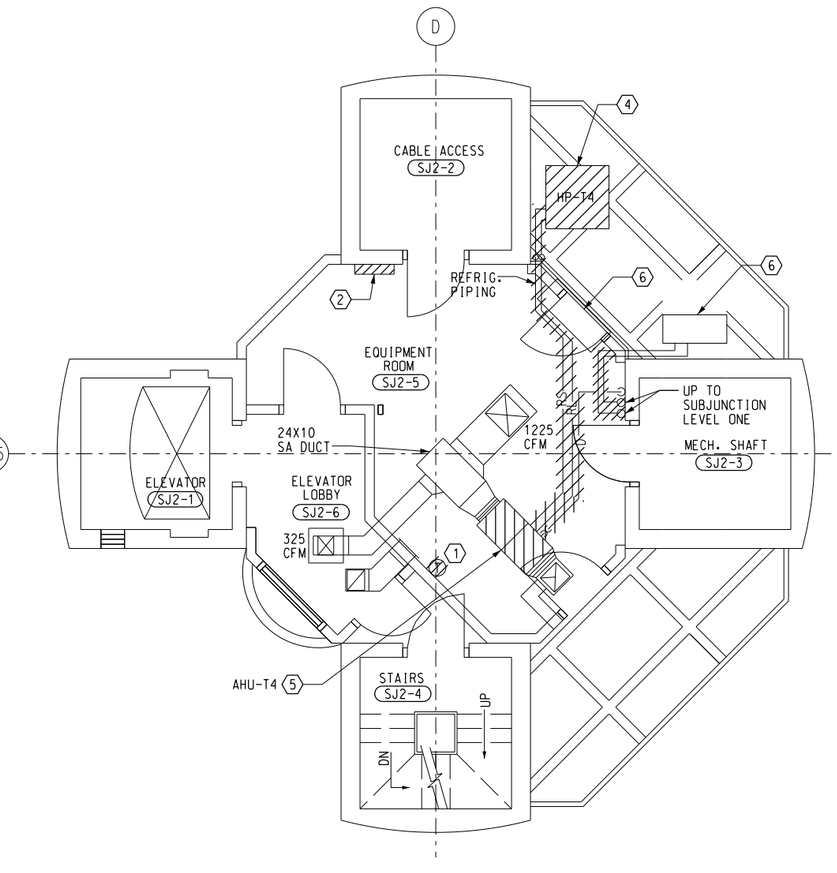
DRAWN GMR	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO	REV
CHECKED MDS		FLL-D-ATCT-D103	



1 D300 GROUND LEVEL PLAN - DEMOLITION

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



2 D300 SUBJUNCTION LEVEL 2 PLAN - DEMOLITION

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

DEMOLITION NOTES

1. REMOVE EXISTING ROOM SENSOR AND ASSOCIATED CONTROLS.
2. REMOVE EXISTING DDC CONTROL PANEL FOR AHU-T4.
3. REMOVE THERMOSTAT ACCOCIATED WITH VAV BOX.
4. REMOVE CONDENSING UNIT HP-T4.
5. REMOVE AHU-T4 AND ASSOCIATED LINE SET.
6. EXISTING MINI-SPLIT UNIT TO REMAIN.

GENERAL

A. EXISTING WORK SHOWN LIGHT DASHED OR LIGHT SOLID LINE WITHOUT HATCHING SHALL REMAIN.

B. CONTRACTOR SHALL COMPLETELY REMOVE THE EXISTING HVAC CONTROL SYSTEM INCLUDING OPERATOR WORKSTATION, CONTROL PANELS, CONTROL WIRING, THERMOSTATS, AND ALL ASSOCIATED CONTROL COMPONENTS.

C. CONTRACTOR SHALL REVIEW THE EXISTING CONTROL DRAWINGS AND ACTUAL CONTROL INSTALLATION PRIOR TO PERFORMING ANY WORK AND SHALL MINIMIZE DOWNTIME OF THE HVAC SYSTEM.

D. SEE DRAWING ATCT-M000 FOR HVAC LEGEND, GENERAL NOTES AND SPECIAL NOTES.

E. OWNER DHALL HAVE FIRST RIGHT TO ALL EQUIPMENT THAT IS REMOVED.

N

4' 0 4' 8'

1/4" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED 01/31/2020 No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH

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WW JOB NUMBER: 219075.00

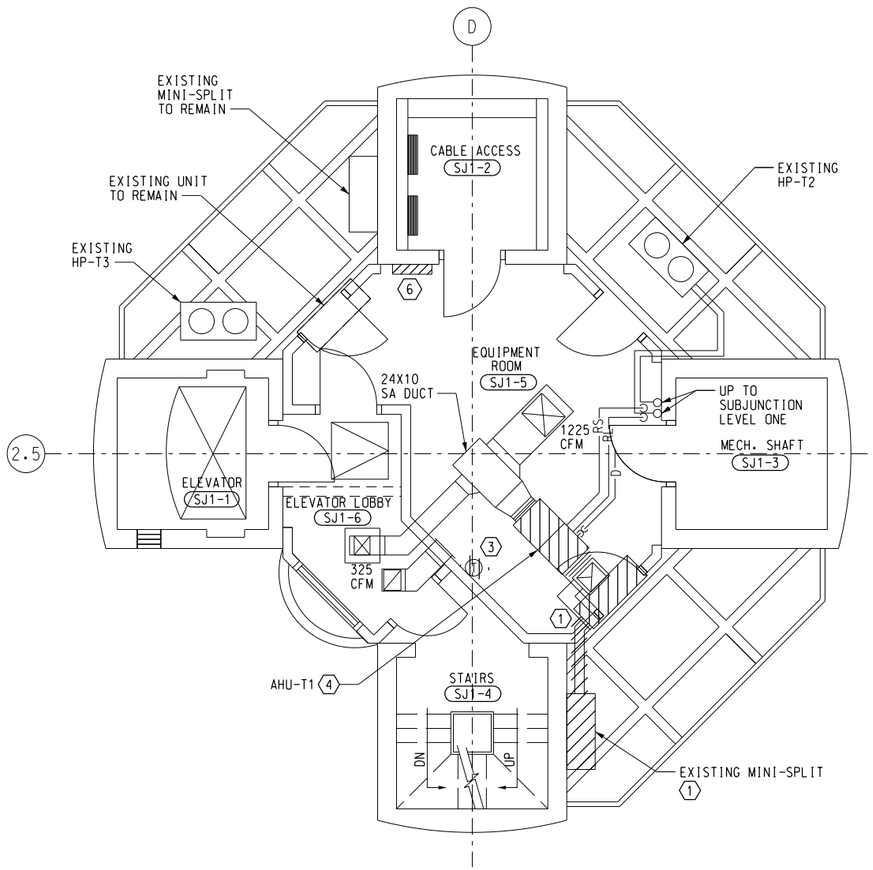
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
GROUND LEVEL AND SUBJUNCTION LEVEL 2 - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

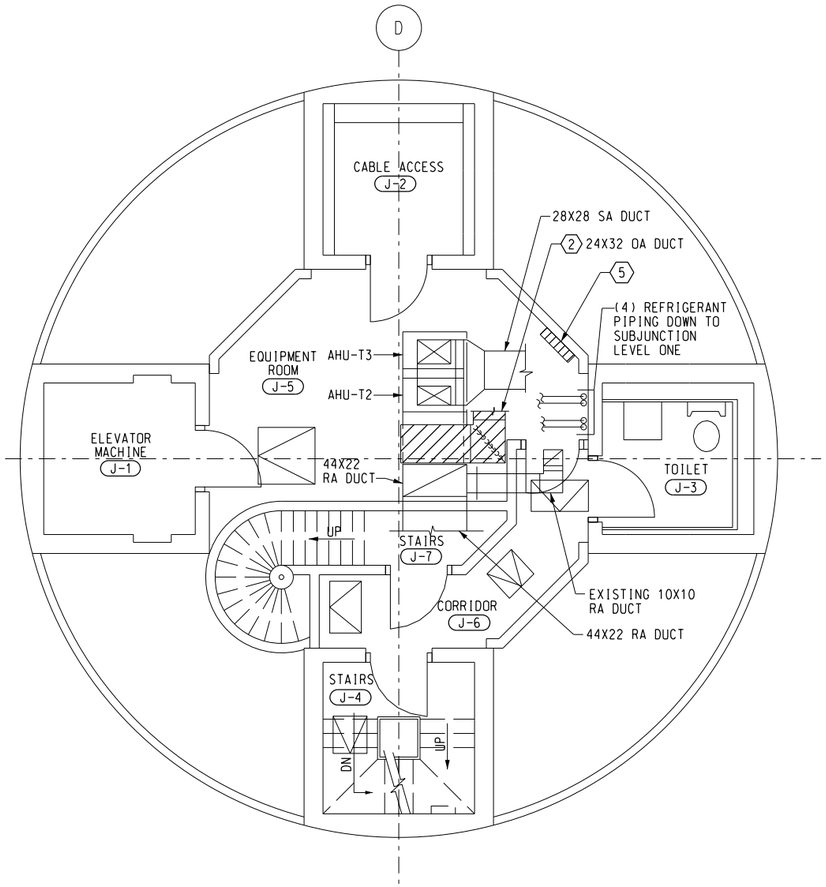
REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED MDS	ISSUED BY	DATE JAN 31, 2020	JCN 1508912
DRAWN CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO FLL-D-ATCT-D300	REV
CHECKED MDS			



1 D301 SUBJUNCTION LEVEL ONE PLAN - DEMOLITION

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



2 D301 JUNCTION LEVEL PLAN - DEMOLITION

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

DEMOLITION NOTES

1. FIELD LOCATE AND REMOVE EXISTING MINI-SPLIT (INDOOR AND OUTDOOR UNITS), LINESET AND ASSOCIATED CONTROLS. AFTER NEW SPLIT SYSTEMS HAVE BEEN INSTALLED.
2. REMOVE EXISTING OA DUCT.
3. REMOVE THERMOSTAT AND ASSOCIATED CONTROLS.
4. REMOVE AHU-T1 AND ASSOCIATED LINESET.
5. REMOVE EXISTING DDC CONTROL PANEL FOR UNITS AHU-T2, T3.
6. REMOVE EXISTING DDC CONTROLLER FOR AHU-T1.

GENERAL

A. AIR FLOW SHOWN ON EXISTING SUPPLY AIR OUTLETS ARE FROM AS-BUILT DRAWINGS. CONTRACTOR SHALL PERFORM AIR FLOW TEST AND RECORD THE ACTUAL AIR FLOW ON EXISTING AIR OUTLETS IN BASE BUILDING AND TOWER PRIOR TO BEGINNING ANY HVAC DEMOLITION WORK. RESULTS SHALL BE RETAINED AND USED TO RESTORE THE SYSTEM AT THE COMPLETION OF THE MECHANICAL WORK. THE ACTUAL AIR FLOW SHALL BE SUBMITTED TO THE FAA CONTRACTING OFFICER REPRESENTATIVE FOR REVIEW. AFTER CONSTRUCTION, REBALANCE ALL EXISTING AND NEW AIR DEVICES TO AIR FLOW INDICATED.

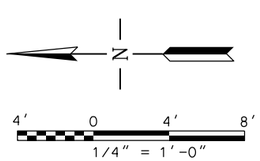
B. EXISTING WORK SHOWN LIGHT DASHED OR LIGHT SOLID LINE WITHOUT HATCHING SHALL REMAIN.

C. CONTRACTOR SHALL COMPLETELY REMOVE THE EXISTING HVAC CONTROL SYSTEM INCLUDING OPERATOR WORKSTATION, CONTROL PANELS, CONTROL WIRING, THERMOSTATS, AND ALL ASSOCIATED CONTROL COMPONENTS.

D. CONTRACTOR SHALL REVIEW THE EXISTING CONTROL DRAWINGS AND ACTUAL CONTROL INSTALLATION PRIOR TO PERFORMING ANY WORK AND SHALL MINIMIZE DOWNTIME OF THE HVAC SYSTEM.

E. SEE DRAWING ATCT-M000 FOR HVAC LEGEND, GENERAL NOTES AND SPECIAL NOTES.

F. OWNER SHALL HAVE FIRST RIGHTS TO ALL EQUIPMENT REMOVED.



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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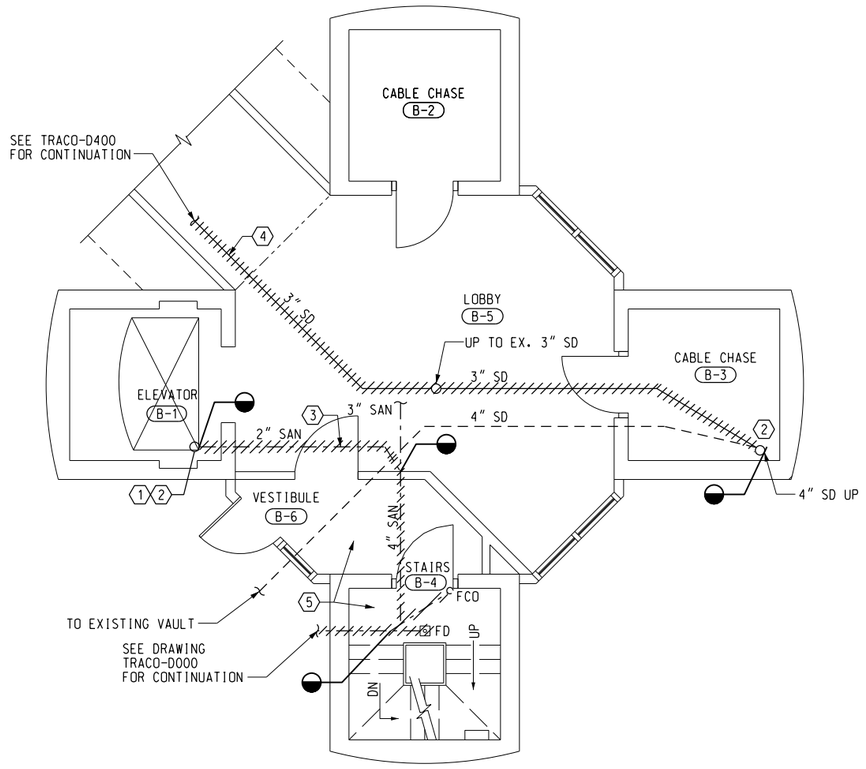
DATE JAN 31, 2020 JCN 1508912

DRAWING NO FLL-D-ATCT-D301 REV



1/D400 GROUND LEVEL DEMOLITION PLAN

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

DEMOLITION NOTES

1. EXISTING SUMP PUMP TO REMAIN. REPLACE ALL PIPE SERVED BY SUMP PUMP.
2. TEE CONNECTING ROOF DRAINS TO STORM DRAIN STACK.
3. ALL WORK WITH THIS LINE IS UNDER SLAB. CONTRACTOR SHALL LOCATE LINE UNDER SLAB AND DEMOLISH UP TO 4" SAN MAIN. PATCH CONCRETE OR PROVIDE TEMPORARY COVER SO AS TO MAINTAIN EGRESS AND ELEVATOR ACCESS.
4. REMOVE ONLY AS MUCH PIPE AS CAN BE REPAIRED IN ONE NIGHT. TRANSITION FROM 3" SD TO 4" SD MUST ALLOW TOWER TO REMAIN OPERATIONAL.
5. ALL WORK IN THIS AREA MUST ALLOW EGRESS PATH TO REMAIN IN OPERATION.

GENERAL NOTES

A. SEE TRACO-P000 FOR GENERAL NOTES AND SYMBOLS. SEE TOWB-G010 AND TOWB-G011 FOR ABBREVIATIONS.

N

4' 0 4' 8'

1/4" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 12/31/2020

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
PLUMBING
GROUND LEVEL PLAN - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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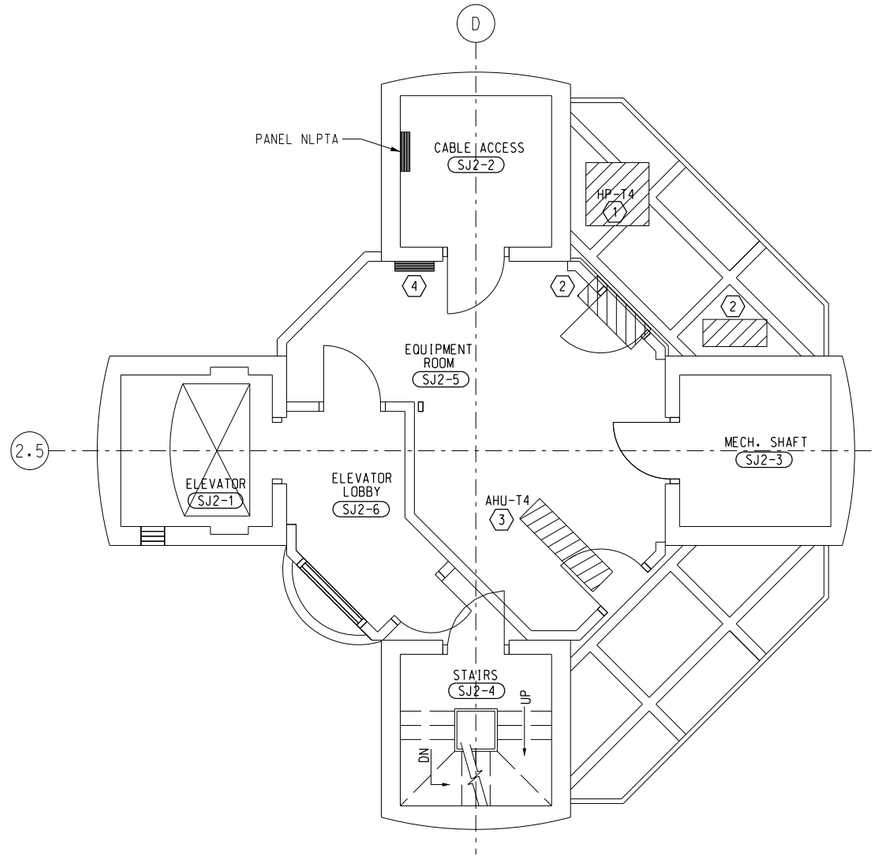

1 / D500 SUBJUNCTION LEVEL TWO PLAN - DEMOLITION

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

GENERAL NOTES

A. EXISTING WORK SHOWN LIGHT SOLID LINE WITHOUT HATCHING SHALL REMAIN.

B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

DEMOLITION NOTES

(1) HP-T4 TO BE REPLACED. CIRCUIT WIRING AND CONDUIT SHALL REMAIN FOR CONNECTION TO NEW UNIT. EQUIPMENT SERVED BY PANEL NLPTA.

(2) REMOVE SPLIT- SYSTEM AND ASSOCIATED CONDENSING UNIT SERVED BY PANEL NLPTA. DISCONNECT AND REMOVE ALL CONDUCTORS AND CONDUIT BACK TO PANEL. LABEL CIRCUIT BREAKER AS "SPARE" IN PANEL DIRECTORY.

(3) EXISTING AHU-T4 TO BE REPLACED. CIRCUIT WIRING AND CONDUIT SHALL REMAIN FOR CONNECTION TO NEW UNIT. EQUIPMENT SERVED BY PANEL NLPTA.

(4) EXISTING DDC CONTROL PANEL TO BE REPLACED. CIRCUIT WIRING AND CONDUIT SHALL REMAIN FOR CONNECTION TO NEW PANEL.

N

4' 0 4' 8'

1/4" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 11/31/2020

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FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
GROUND LEVEL AND SUBJUNCTION LEVEL 2 - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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DESIGNED MDS	ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN 31, 2020 JCN 1508912
DRAWN CRK		DRAWING NO FLL-D-ATCT-D500 REV
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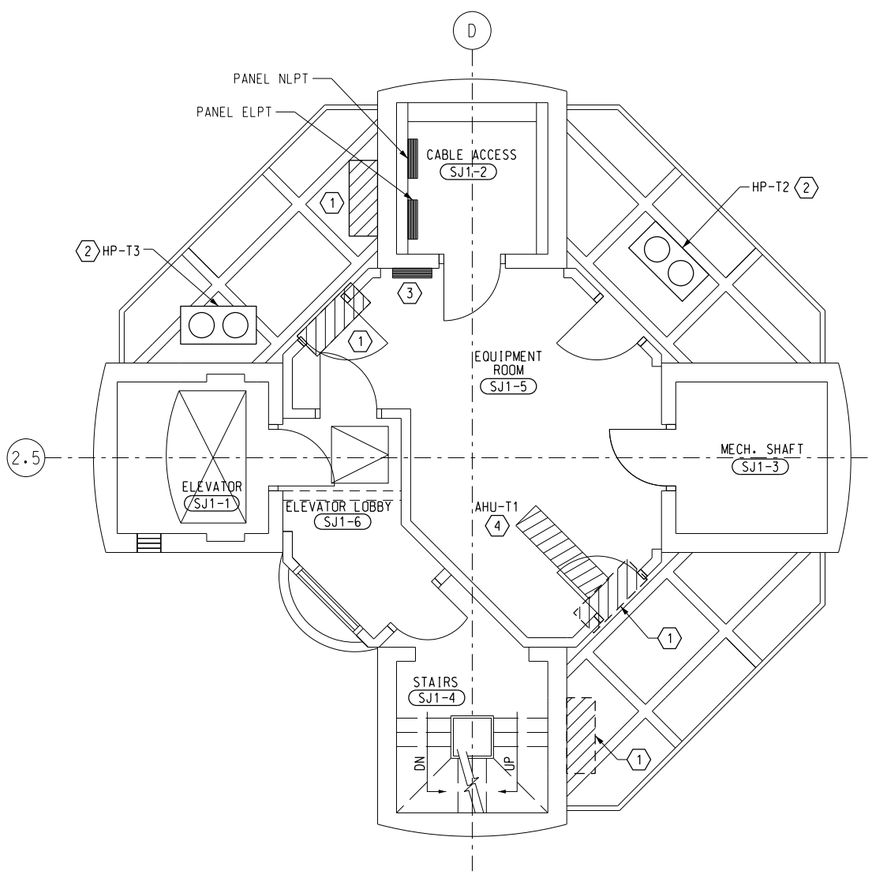
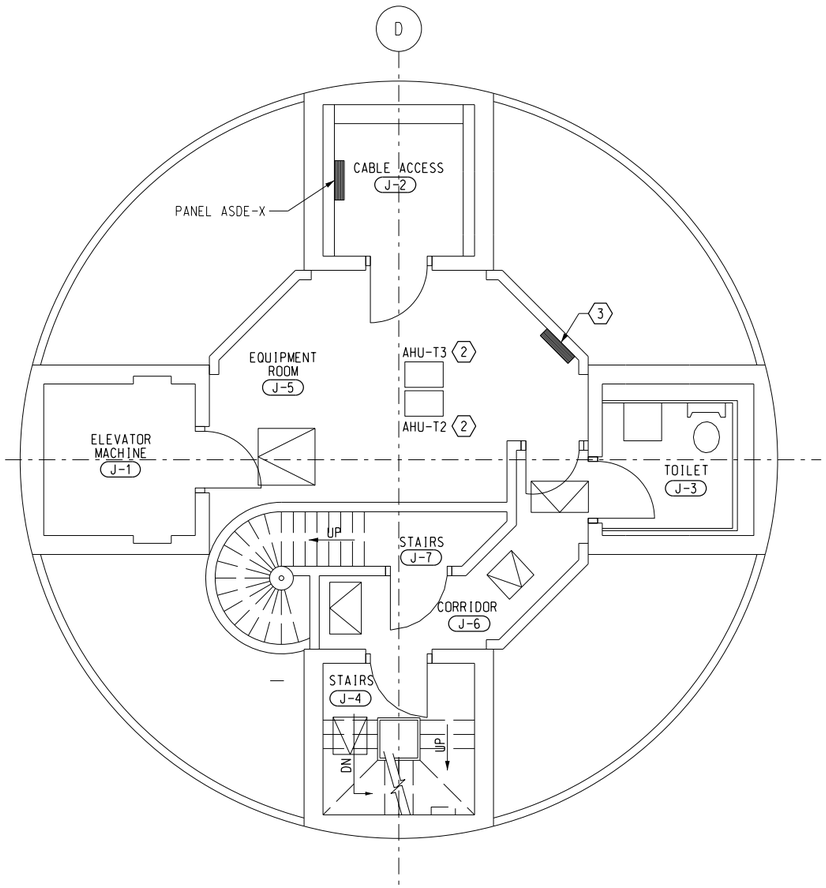


1 D501 SUBJUNCTION LEVEL ONE PLAN - DEMOLITION

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



2 D501 JUNCTION LEVEL PLAN - DEMOLITION

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

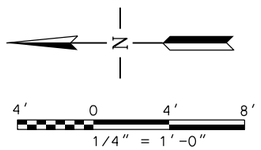
GENERAL NOTES

A. EXISTING WORK SHOWN LIGHT SOLID LINE WITHOUT HATCHING SHALL REMAIN.

B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

DEMOLITION NOTES

1. REMOVE SPLIT- SYSTEM AND ASSOCIATED CONDENSING UNIT SERVED BY PANEL NLPT. DISCONNECT AND REMOVE ALL CONDUCTORS AND CONDUIT BACK TO PANEL. LABEL CIRCUIT BREAKER AS "SPARE" IN PANEL DIRECTORY.
2. EXISTING EQUIPMENT TO REMAIN.
3. EXISTING DDC CONTROL PANEL TO BE REPLACED. CIRCUIT WIRING AND CONDUIT SHALL REMAIN FOR CONNECTION TO NEW PANEL.
4. EXISTING MECHANICAL EQUIPMENT TO BE REPLACED. REMOVE DISCONNECT SWITCH AND ALL CONDUCTORS BACK TO PANEL NLPT. CONDUIT PATHWAY TO REMAIN FOR REUSE. MODIFY CONDUIT ROUTING AS REQUIRED FOR INSTALLATION OF NEW EQUIPMENT.



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 11/31/2019

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICALL
SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

Wiley|Wilson
5901 Peachtree Dunwoody Rd.
Bldg. C, Ste 515
Atlanta, Georgia 30328-6055
678.320.1888
wileywilson.com

WW JOB NUMBER: 219075.00

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
	DESIGNED MDS	ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER
	DRAWN CRK	DATE JAN 31, 2020 JCN 1508912
	CHECKED MDS	DRAWING NO FLL-D-ATCT-D501 REV

101 DOOR NUMBER

GYPSUM BOARD PARTITION

PRECAST CONCRETE

WINDOW NUMBER

W1

X1 TYPICAL PARTITION TYPE

L1 LOUVER NUMBER

8'-6" AFF CEILING HEIGHT DESIGNATION

FLOOR HATCH

STEEL LADDER

SUMP

FLOOR MOUNTED SERVICE SINK

WALL MOUNTED SERVICE SINK

LAVATORY IN COUNTERTOP

LAVATORY WALL MOUNTED

URINAL

WATER CLOSET FLOOR MOUNTED

WATER CLOSET WALL MOUNTED

ELECTRIC WATER COOLER WALL RECESSED

ELECTRIC WATER COOLER WALL HUNG (HANDICAP)

LOCKERS

HC HANDICAP DOOR OPERATOR

2' X 4' LAY-IN ACOUSTICAL CEILING

2' X 2' LAY-IN ACOUSTICAL CEILING

SUSPENDED GYPSUM BOARD CEILING

SUPPLY DIFFUSER

RETURN GRILLE

EXHAUST GRILLE

2'X4' RECESSED FLUORESCENT LIGHTING FIXTURE

2'X2' RECESSED FLUORESCENT LIGHTING FIXTURE

4' FLUORESCENT LIGHTING FIXTURE, SURFACE MOUNTED

2' FLUORESCENT LIGHTING FIXTURE, SURFACE MOUNTED

4' FLUORESCENT STRIP FIXTURE

RECESSED FLUORESCENT/INCANDESCENT LIGHTING FIXTURE

RECESSED FLUORESCENT, WALL WASHER LIGHTING FIXTURE

WALL-MOUNTED LIGHT FIXTURE

EXIT SIGN

BLACKENED DOT INDICATES FIXTURE WITH EMERGENCY BATTERY PACK

LOBBY B-5 ROOM NUMBER TAG

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

STATE OF GEORGIA
NEIL ESSER
CERTIFICATE NO. RA024741
REGISTERED ARCHITECT
01/31/2020

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
LEGEND, SYMBOLS AND GENERAL NOTES

FT LAUDERDALE (INTERNATIONAL) FL

Wiley|Wilson
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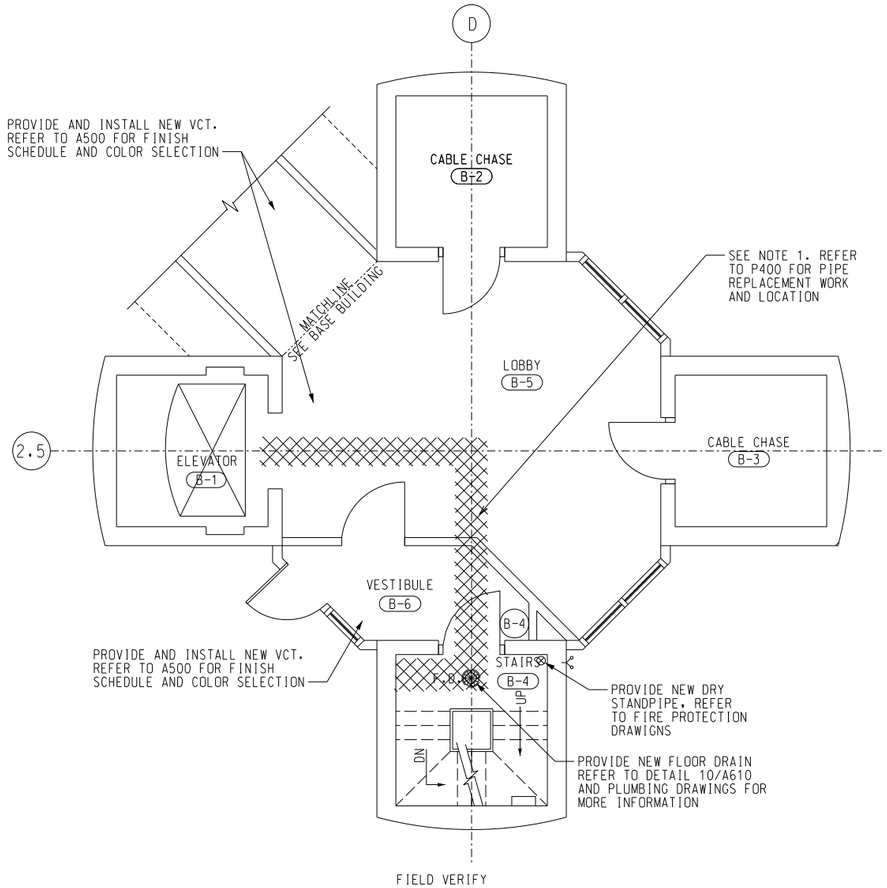
DESIGNED GMR	ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN. 31, 2020 JCN 1508912
DRAWN GMR		DRAWING NO FLL-D-ATCT-A000 REV
CHECKED NXE		

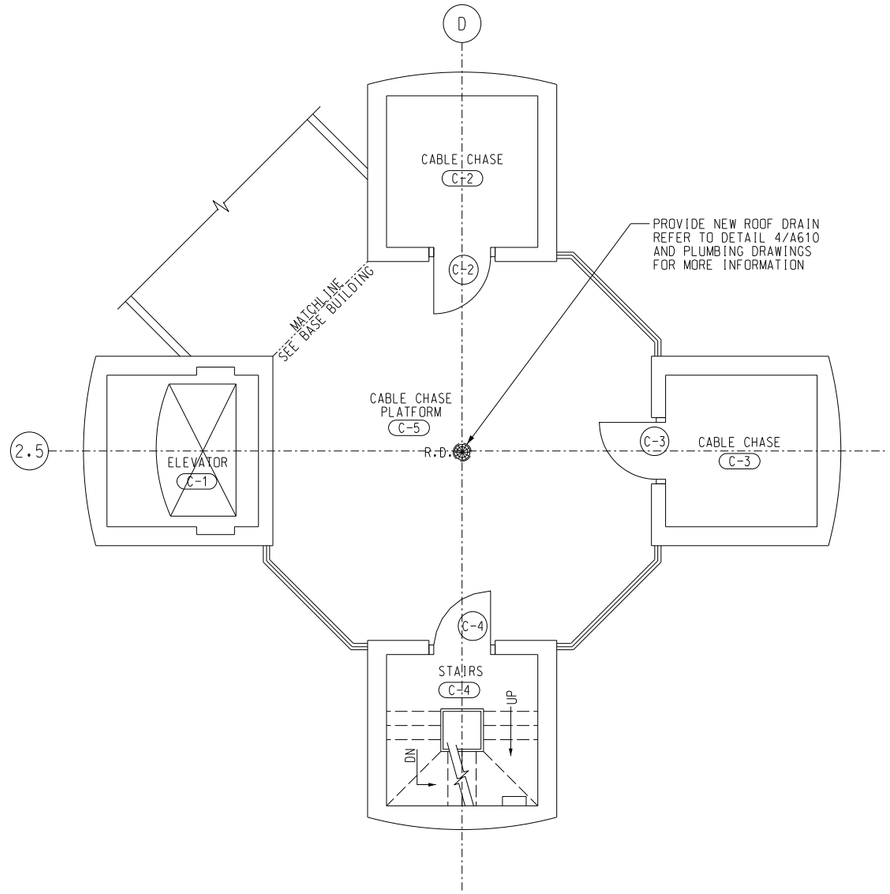
NOTES

1. AFTER PLUMBING WORK HAS BEEN COMPLETED, REPAIR CONCRETE SLAB TO A SMOOTH FINISH.



1 A100 GROUND LEVEL FLOOR PLAN

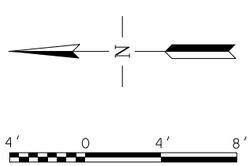
SCALE: 1/4" = 1' - 0"



2 A100 SECOND LEVEL FLOOR PLAN

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

NO WORK TO BE DONE IN THIS LEVEL



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

STATE OF GEORGIA
NEIL ESSER
CERTIFICATE NO. RA031924
REGISTERED ARCHITECT
01/31/2020

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WW JOB NUMBER: 219075.00

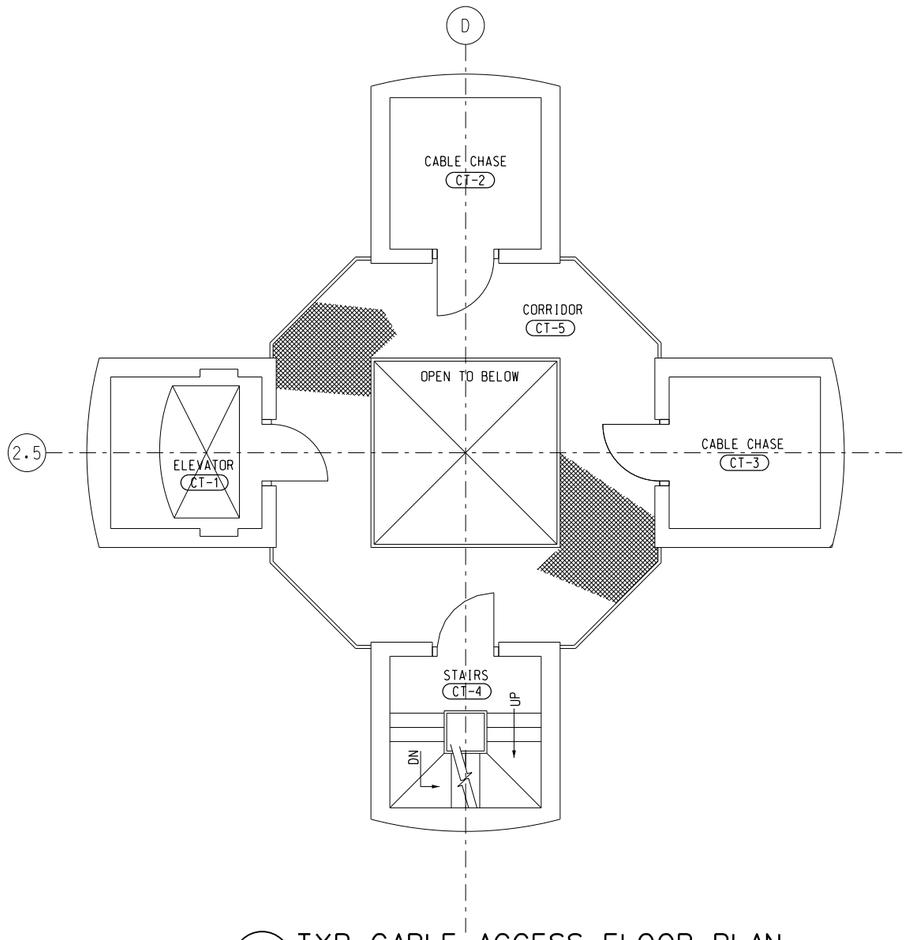
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
GROUND AND SECOND FLOOR PLAN

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

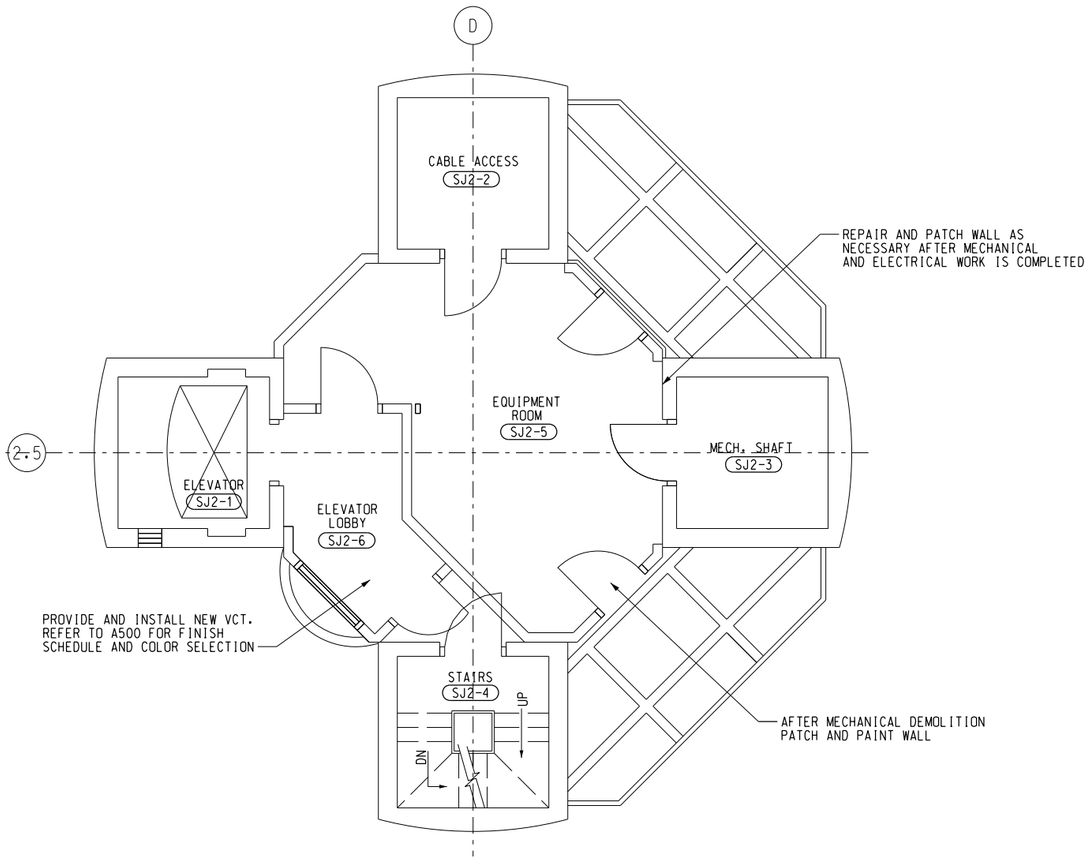
DESIGNED GMR	ISSUED BY	DATE JAN 31, 2020	JCN 1508912
DRAWN GMR	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO	REV
CHECKED NXE		FLL-D-ATCT-A100	



1 A101 TYP. CABLE ACCESS FLOOR PLAN

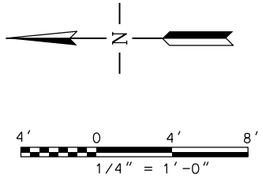
SCALE: 1/4" = 1' - 0"

NO WORK TO BE DONE IN THESE LEVELS



2 A101 SUBJUNCTION LEVEL 2 FLOOR PLAN

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



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

STATE OF GEORGIA
NEIL ESSER
CERTIFICATE NO. RA017097
REGISTERED ARCHITECT
01/31/2020

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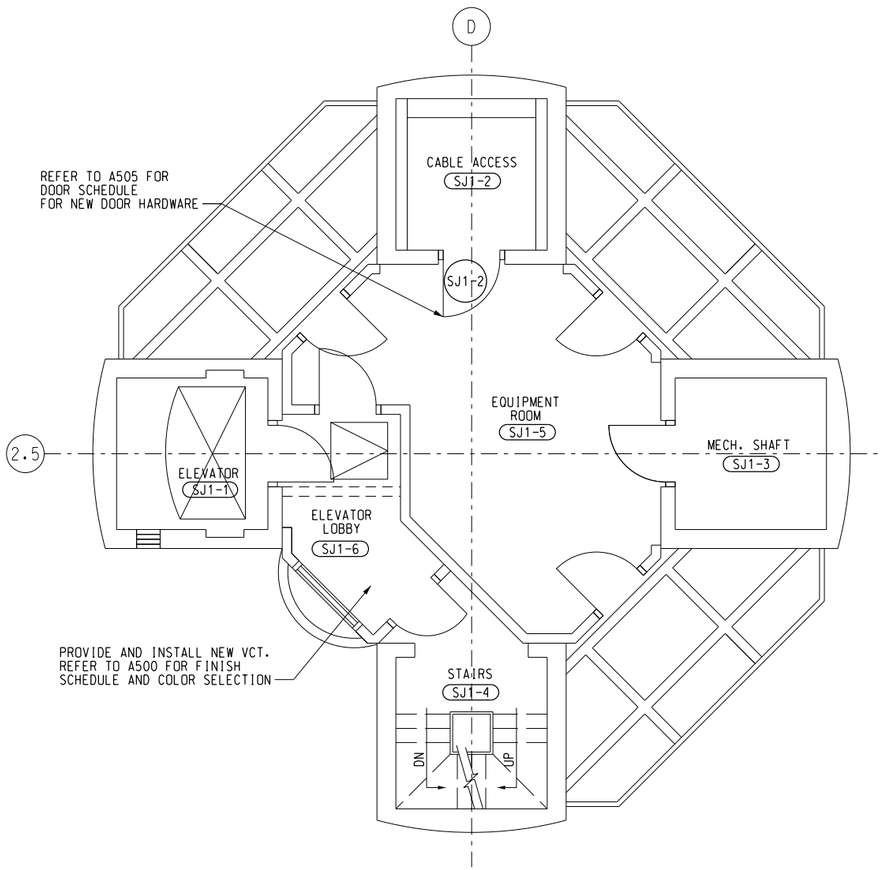
WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
CABLE ACCESS PLAN AND SUBJUNCTION LEVEL 2

FT LAUDERDALE (INTERNATIONAL) FL

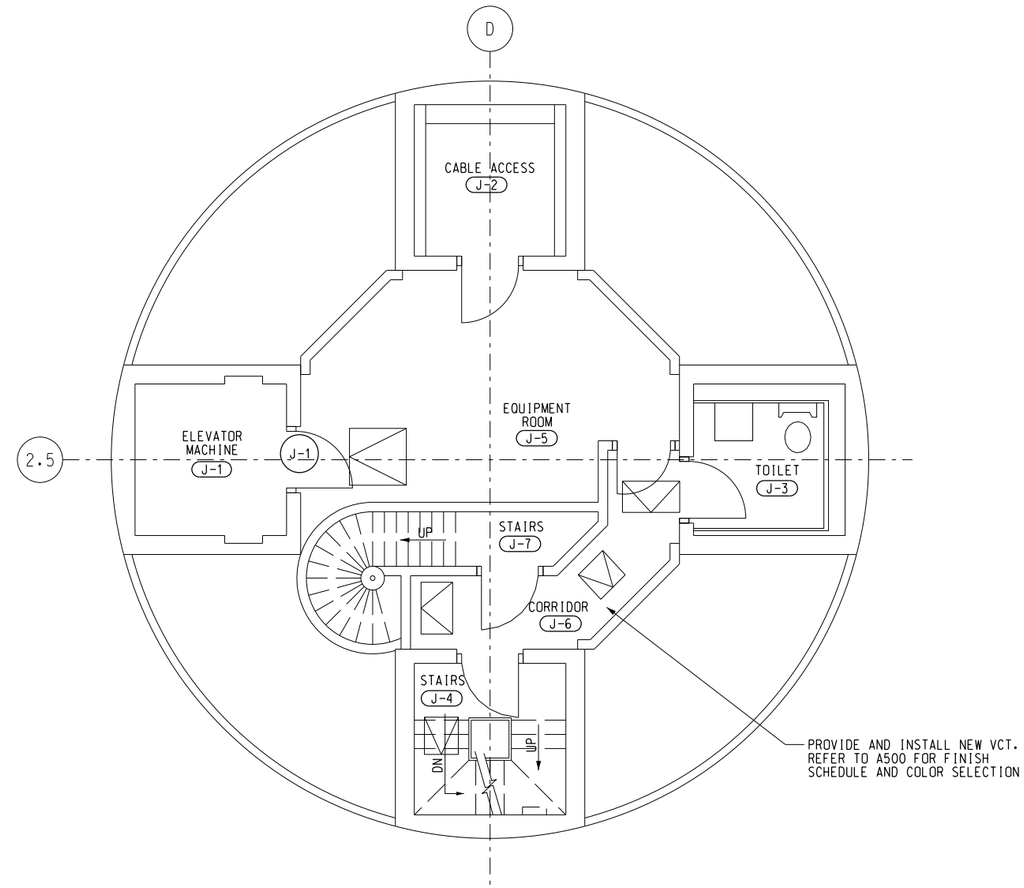
REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
	DESIGNED GMR	ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
	DRAWN GMR	DATE JAN 31, 2020 JCN 1508912
	CHECKED NXE	DRAWING NO FLL-D-ATCT-A101 REV



1 / A102 SUBJUNCTION LEVEL 1 FLOOR PLAN

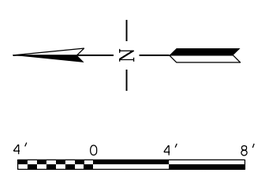
SCALE: 1/4" = 1' - 0"

SEE A121 FOR WORK ON THE UNDERSIDE OF THIS LEVEL



2 / A102 JUNCTION LEVEL FLOOR PLAN

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



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

STATE OF GEORGIA
NEIL ESSER
CERTIFICATE NO. 024170
REGISTERED ARCHITECT
01/31/2020

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WW JOB NUMBER: 219075.00

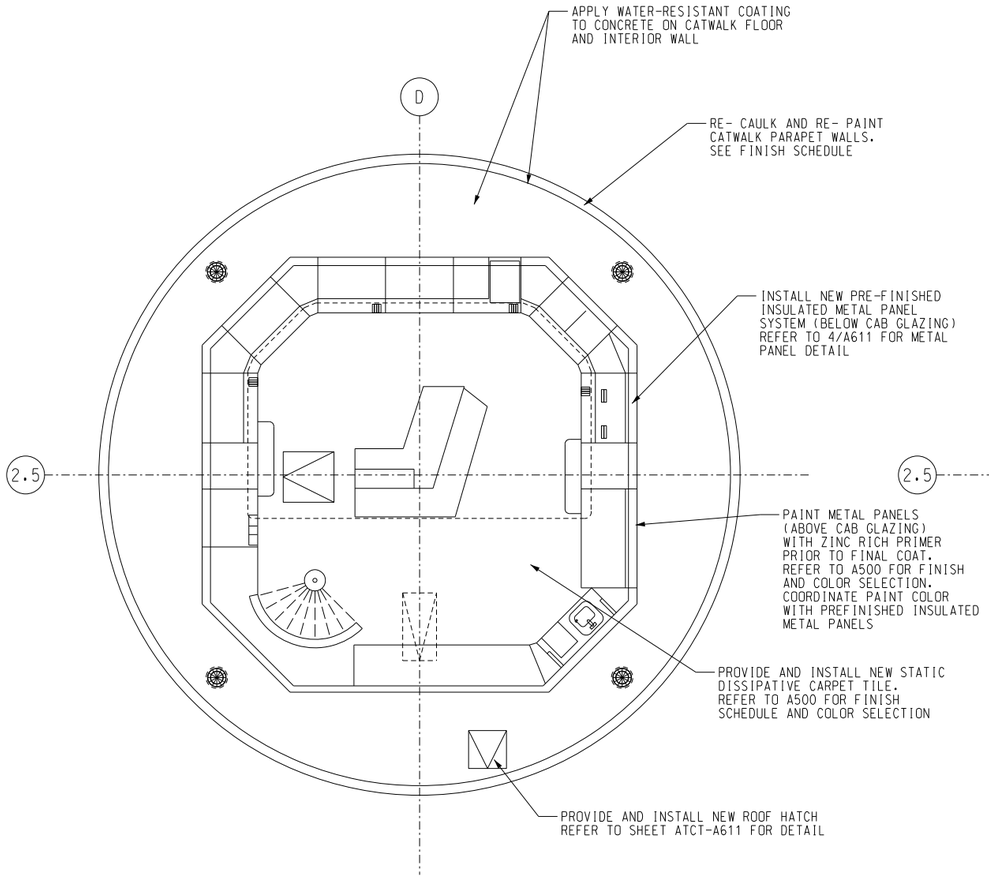
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL

FT LAUDERDALE (INTERNATIONAL) FL

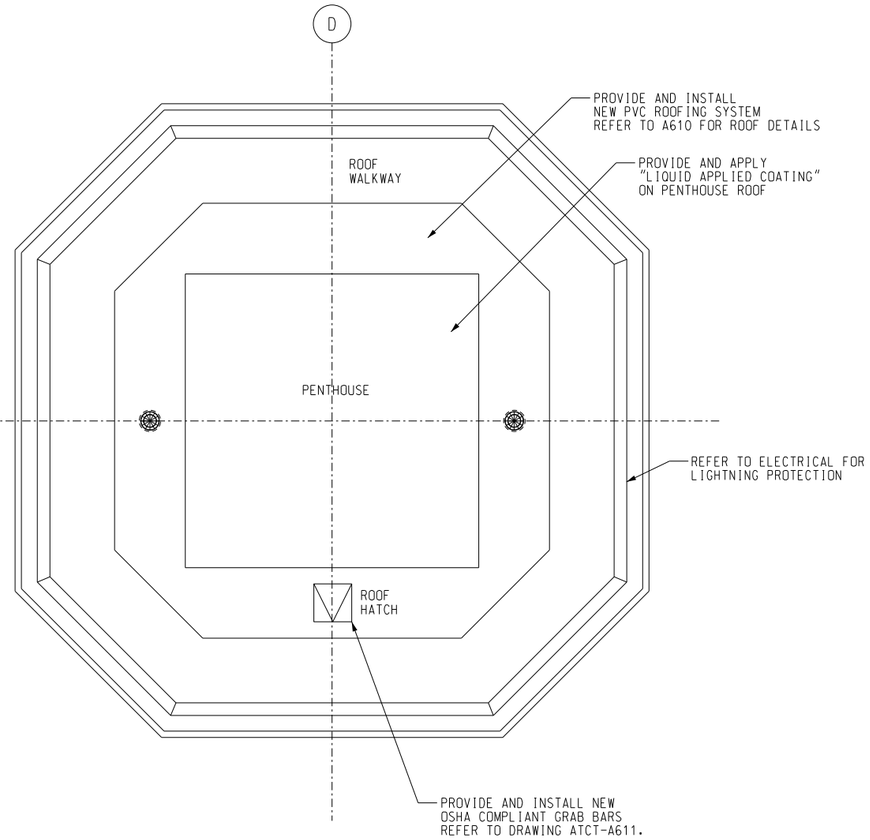
REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED GMR	ISSUED BY	DATE JAN 31, 2020	JCN 1508912
DRAWN GMR	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO	REV
CHECKED NXE		FLL-D-ATCT- A102	



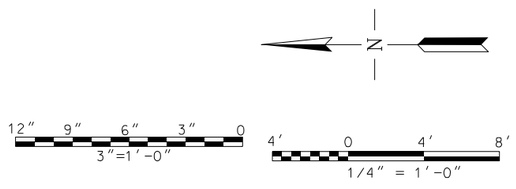
1 A103 CAB FLOOR PLAN

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



2 A103 CAB ROOF PLAN

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



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

STATE OF GEORGIA
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CERTIFICATE NO. 026172
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Atlanta, Georgia 30328-6055
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wileywilson.com

WW JOB NUMBER: 219075.00

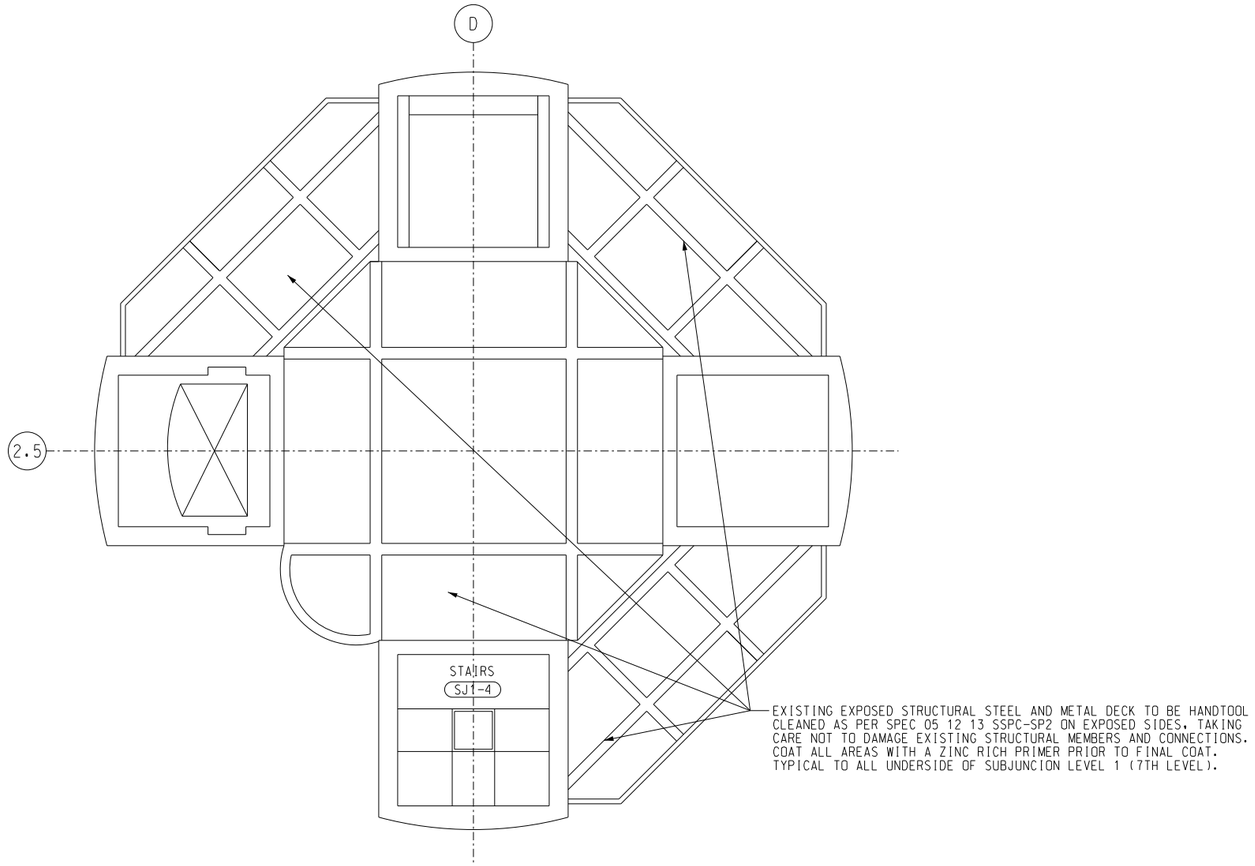
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
CAB LEVEL FLOOR AND ROOF PLANS

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED GMR	ISSUED BY	DATE JAN 31, 2020	JCN 1508912
DRAWN GMR	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO	REV
CHECKED NXE		FLL-D-ATCT- A103	



1 / A121 CABLE ACCESS 7TH LEVEL- RCP

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

N

4' 0 4' 8'

1/4" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

STATE OF GEORGIA
NEIL ESSER
CERTIFICATE NO. RA019924
REGISTERED ARCHITECT
01/31/2020

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wileywilson.com

WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
CABLE ACCESS 7TH LEVEL - RCP

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED	GMR	ISSUED BY	DATE	JCN
DRAWN	GMR	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912
CHECKED	NXE	DRAWING NO	FLL-D-ATCT- A121	REV

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	FINISH	HEIGHT	
FIRST LEVEL (GROUND)										
B-5	LOBBY	VCT-1	RB-1	P-1	P-1	P-1	P-1	-	-	REFER TO DETAIL 2/A500
B-6	VESTIBULE	VCT-1	RB-1	P-1	P-1	P-1	P-1	-	-	REFER TO DETAIL 1/A500
CABLE ACCESS (7TH LEVEL)										
CC7-1	CABLE ACCESS LEVEL	-	-	-	-	-	-	P-2	EXISTING	REFER TO DETAIL 1/A500
SUBJUCTION LEVEL 2										
SJ2-6	ELEVATOR LOBBY	VCT-1	RB-1	P-1	P-1	P-1	P-1	-	-	REFER TO DETAIL 1/A500
SUBJUCTION LEVEL 1										
SJ1-6	ELEVATOR LOBBY	VCT-1	RB-1	P-1	P-1	P-1	P-1	-	-	REFER TO DETAIL 1/A500
JUNCTION LEVEL										
J-3	TOILET	-	-	-	-	-	-	-	-	
J-6	CORRIDOR	VCT-1	RB-1	P-1	P-1	P-1	P-1	-	-	REFER TO DETAIL 1/A500
J-7	STAIRS	VCT-1	RB-1	P-1	P-1	P-1	P-1	-	-	REFER TO DETAIL 2/A500
CAB										
CAB	CAB	CPT-2	RB-1	-	-	-	-	-	-	

INTERIOR COLOR SELECTIONS

CARPET (CPT)

CPT-1 FOR THE BASE BUILDING

CPT-2 ELECTROSTATIC DISSAPATIVE TYPE CARPET, 24" X 24" SIZE.
JULIE INDUSTRIES. COLOR: GALILEO - CONTEMPO #4070.

PAINT (P)

P-1 SHERWIN WILLIAMS 6253 "OLYMPUS WHITE"

P-2 SHERWIN WILLIAMS 7006 "EXTRA WHITE"
(EXPOSED STRUCTURE ABOVE)

RUBBER BASE (RB)

RB-1 4" COVED WALL BASE COLOR EQUAL TO "ROPPE P129 DOLPHIN"

RESILIENT FLOORING (VCT) - VINYL COMPOSITE TILE

VCT-1 COLOR EQUAL TO "AZROCK VINYL ENHANCED TILE, AZTERRA AT-104 GREY ROCK."

EXTERIOR COLOR SELECTIONS

EXTERIOR PAINT (XP)

XP-1 SHERWIN WILLIAMS 6005 "FOLKSTONE". SEE NOTE 1.
FOR: DOORS, FRAMES AND METAL PANELS.

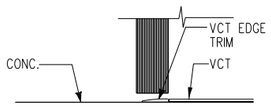
XP-2 GALVANIZED STEEL TO BE PAINTED WITH ZINC RICH PAINT CONFORMING TO ASTM A780.
COLOR: SHERWIN WILLIAMS 6005 "FOLKSTONE" SEE NOTE 1.

EXTERIOR PAINT (XP)

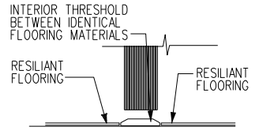
MP-1 CENTRIA,
COLOR: DARK BRONZE ANODIZED. SEE NOTE 1

NOTES:

1. PRIOR TO ORDERING ANY MATERIALS, COORDINATE WITH FAA FOR FINAL COLOR SELECTION AND PROVIDE COLOR SAMPLES, REFLECTING ALL FINISHES NOTED ABOVE, AND ANY CONTRACTOR SUBSTITUTED FINISHES, TO COR FOR APPROVAL.



1 A500 SILL DETAIL
SCALE: 3" = 1'-0"



2 A500 SILL DETAIL
SCALE: 3" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

STATE OF GEORGIA
NEIL ESSER
CERTIFICATE NO. RA021924
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01/31/2020

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
FINISH SCHEDULE AND COLOR SELECTIONS

FT LAUDERDALE (INTERNATIONAL) FL

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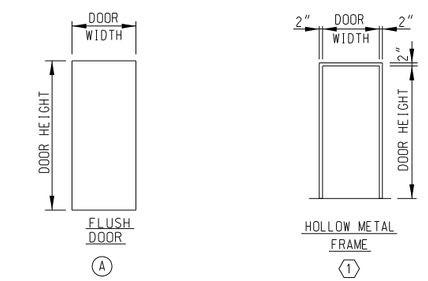
DESIGNED GMR	ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN 31, 2020 JCN 1508912
DRAWN GMR		DRAWING NO FLL-D-ATCT-A500 REV
CHECKED NXE		

DOOR SCHEDULE

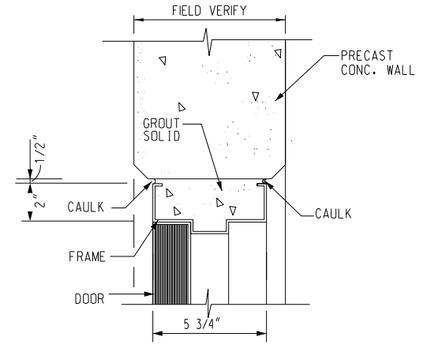
LOCATION			DOOR SCHEDULE										FRAME SCHEDULE			HARDWARE SCHEDULE								SECURITY DOOR MATRIX									SIGN			
LEVEL/FLOOR	DOOR #	DOOR LOCATION	REMOVE EXIST AND INSTALL NEW DOOR AND FRAME	INSTALL NEW DOOR	NEW HARDWARE ONLY	WIDTH	HEIGHT	THICK.	MATERIAL	FINISH	TYPE	TYPE	MATERIAL	FINISH	PAIR HINGES TOTAL	DOOR CLOSER	WEATHER STRIP	LOCK SET TYPE	EXT. RATED	FIRE RATED			ELECTRONIC CARD READER	MAGNETIC CONTACT	ELECTRONIC STRIKE	GRADE-1 BEST CORE	LATCH GUARD	ASTRAGAL	PERIMETER SEAL	RAIN DRIP	SWEEP	EMERGENCY EXIT SIGN	NOT AN EXIT SIGN	EXIT SIGN	FAA WARNING SIGN
GROUND	B-4	STAIRS			●	-	-	-	-	-	-	-	-	-	-	●	-	P	-	-			-	-	-	YES	-	-	-	-	-	-	-	-	-
SECOND	C-2	CABLE CHASE	●			3'-0"	7'-0"	1 3/4"	STL	PAINT	(A)	⟨1⟩	STL	PAINT	1.5	●	●	D	●	90			-	-	-	YES	YES	-	●	●	●	-	-	-	-
	C-3	CABLE CHASE	●			3'-0"	7'-0"	1 3/4"	STL	PAINT	(A)	⟨1⟩	STL	PAINT	1.5	●	●	D	●	90			-	-	-	YES	YES	-	●	●	●	-	-	-	-
	C-4	STAIRS	●			3'-0"	7'-0"	1 3/4"	STL	PAINT	(A)	⟨1⟩	STL	PAINT	1.5	●	●	P	●	90			-	-	-	YES	YES	-	●	●	●	-	-	-	-
SUBJUNCTION	SJ1-2	CABLE CHASE			●	-	-	-	-	-	-	-	-	-	-	●	-	D	-	-			-	-	-	YES	-	-	-	-	-	-	-	-	-
JUNCTION	J-1	ELEVATOR MACHINE			●	-	-	-	-	-	-	-	-	-	-	●	-	D	-	-			-	-	-	YES	-	-	-	-	-	-	-	-	-

DOOR HARDWARE DESCRIPTION

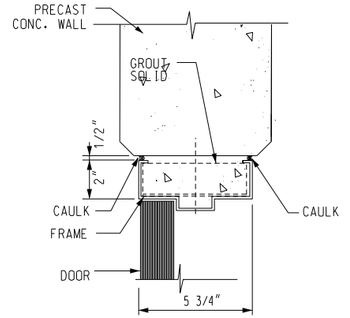
DESG.	FUNCTION	DESCRIPTION	OUTSIDE LEVER		INSIDE LEVER	
			LOCKED BY	UNLOCKED BY	LOCKED BY	UNLOCKED BY
● P	PASSAGE	TURNING THE INSIDE LEVER, OR ROTATING THE OUTSIDE LEVER	CANNOT BE LOCKED	ALWAYS UNLOCKED	CANNOT BE LOCKED	ALWAYS UNLOCKED
● D	STOREROOM	TURNING THE KEY IN THE OUTSIDE LEVER, OR ROTATING THE INSIDE LEVER	ALWAYS FIXED	CANNOT BE UNLOCKED	CANNOT BE LOCKED	ALWAYS UNLOCKED



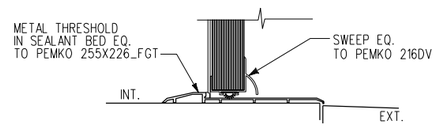
1 A505 DOOR AND FRAME TYPE
NOT TO SCALE



1 A505 DOOR HEAD
SCALE: 3" = 1'-0"



2 A505 JAMB DET.
SCALE: 3" = 1'-0"



3 A505 EXTERIOR THRESHOLD
SCALE: 3" = 1'-0"

12" 9" 6" 3" 0
3"=1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

STATE OF GEORGIA
NEIL ESSER
CERTIFICATE NO. RA014924
REGISTERED ARCHITECT
01/31/2020

Wiley|Wilson
5901 Peachtree Dunwoody Rd.
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WW JOB NUMBER: 219075.00

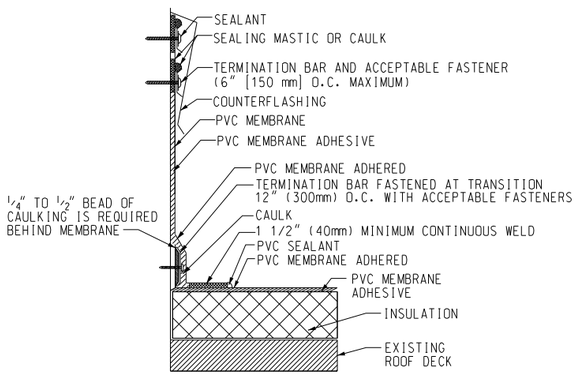
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURAL
DOOR TYPES, SCHEDULE AND DETAILS

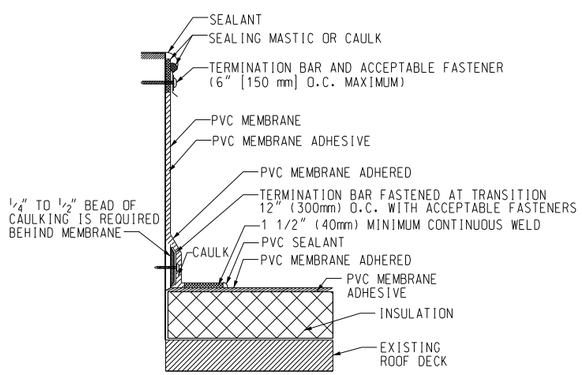
FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

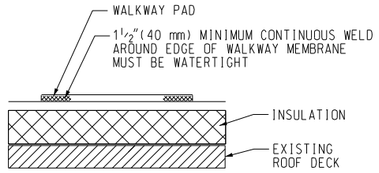
DESIGNED GMR	ISSUED BY	DATE JAN. 31, 2020	JCN 1508912	
DRAWN GMR	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO		REV
CHECKED NXE		FLL-D-TRACO-A505		



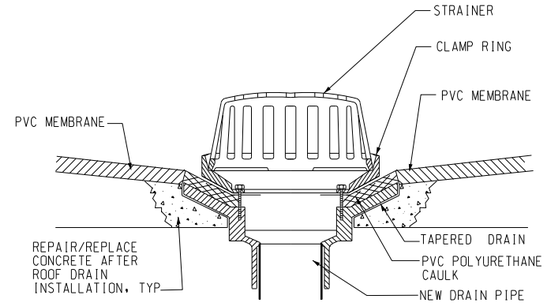
1 A610 VERTICAL FLASHING DETAIL
NOT TO SCALE



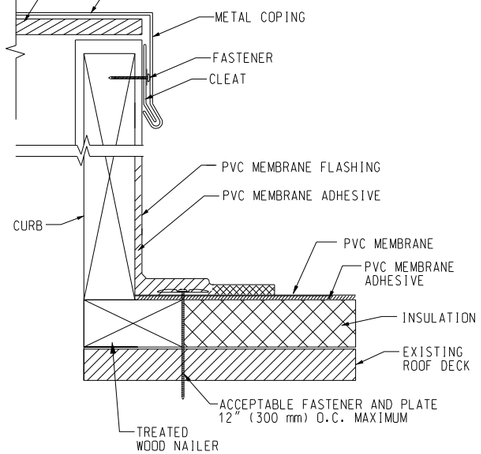
2 A610 OUTSIDE FLASHING DETAIL
NOT TO SCALE



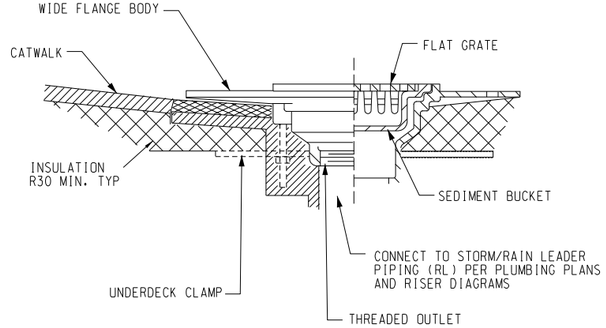
3 A610 WALKWAY PAD DETAIL
NOT TO SCALE



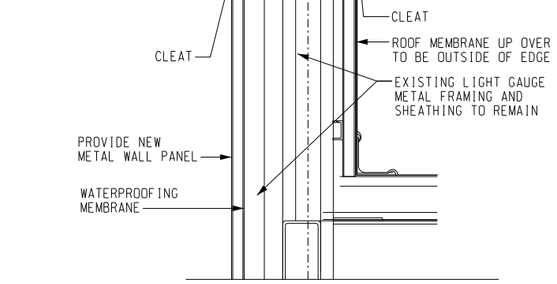
4 A610 DRAIN DETAIL
SCALE: NONE



5 A610 CURB CAP DETAIL
NOT TO SCALE



6 A610 DRAIN AND SUMP DETAIL
NOT TO SCALE



7 A610 CAB PARAPET DETAIL
NOT TO SCALE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

STATE OF GEORGIA
NEIL ESSER
CERTIFICATE NO. RA026924
REGISTERED ARCHITECT
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WW JOB NUMBER: 219075.00

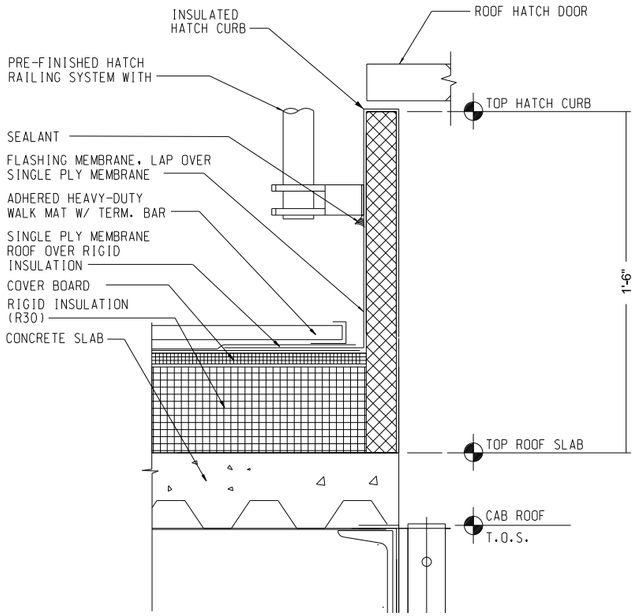
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURE
CATWALK AND CAB ROOF DETAILS

FT LAUDERDALE (INTERNATIONAL) FL

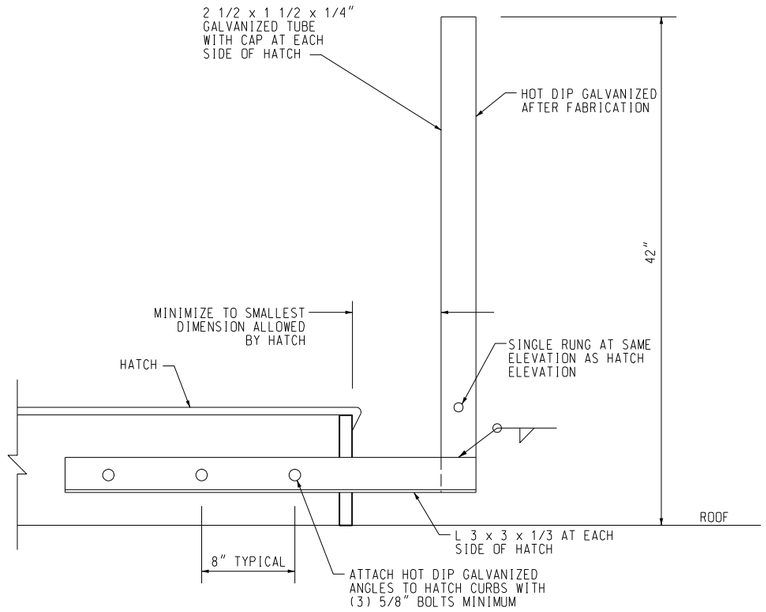
REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED GMR | DRAWN GMR | CHECKED NXE
ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN. 31, 2020 | JCN 1508912
DRAWING NO FLL-D-ATCT-A610 | REV



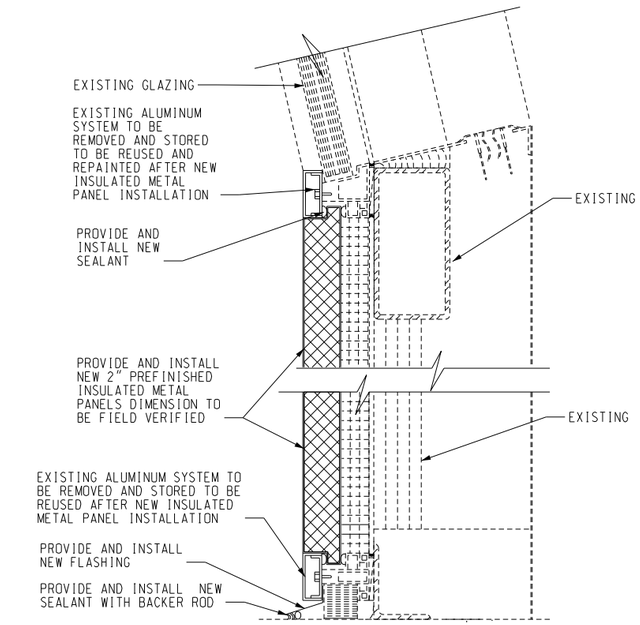
1 A611 ROOF HATCH CURB DETAILS

NOT TO SCALE



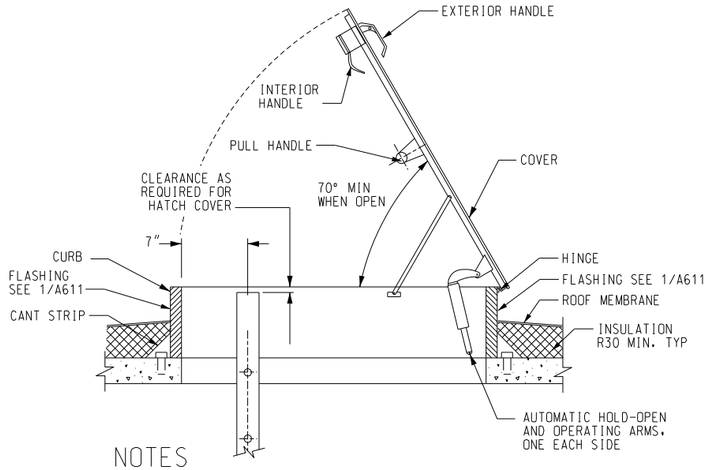
2 A611 GRAB BARS ATTACHED TO HATCH FRAME

NOT TO SCALE



3 A611 METAL PANEL DETAIL

SCALE: 3" = 1' - 0"



NOTES

1. HATCH WIDTH 24" MIN FROM FACE - FACE OF OPERATING ARMS.
2. GRAB BAR NOT SHOWN FOR CLARITY.

3 A611 COUNTERBALANCED HATCH COVER AT ROOF

NOT TO SCALE

INSULATED METAL PANEL NOTES

1. CONTRACTOR SHALL COORDINATE WITH FAA COR IF EXISTING CONDITIONS ARE NOT DEPICTED IN DRAWINGS.
2. INSULATED METAL PANEL DETAIL SHOWN IS DIAGRAMMATIC ONLY. THE INTENT OF THIS DRAWING IS FOR THE CONTRACTOR TO PROVIDE A COMPLETE INSULATED METAL PANEL SYSTEM, INCLUDING FULLY ENGINEERED CONNECTIONS AND ATTACHMENT FURNISHED BY A SINGLE SUB-CONTRACTOR, AS PER THE REQUIREMENTS OF THE SPECIFICATIONS.
3. PROVIDE INSULATED METAL PANELS (R-20 MIN.), EQUAL TO CENTRIA, DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE FLORIDA BUILDING CODE. PROVIDE EVIDENCE OF PRODUCT CURRENT OF MIAMI-DADE COUNTY BUILDING CODE COMPLIANCE OFFICE.

12" 9" 6" 3" 0

3"=1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

STATE OF GEORGIA
NEIL ESSER
CERTIFICATE NO. RA017492
REGISTERED ARCHITECT
01/31/2020

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURE
CATWALK HATCH AND CAB DETAILS

FT LAUDERDALE (INTERNATIONAL) FL

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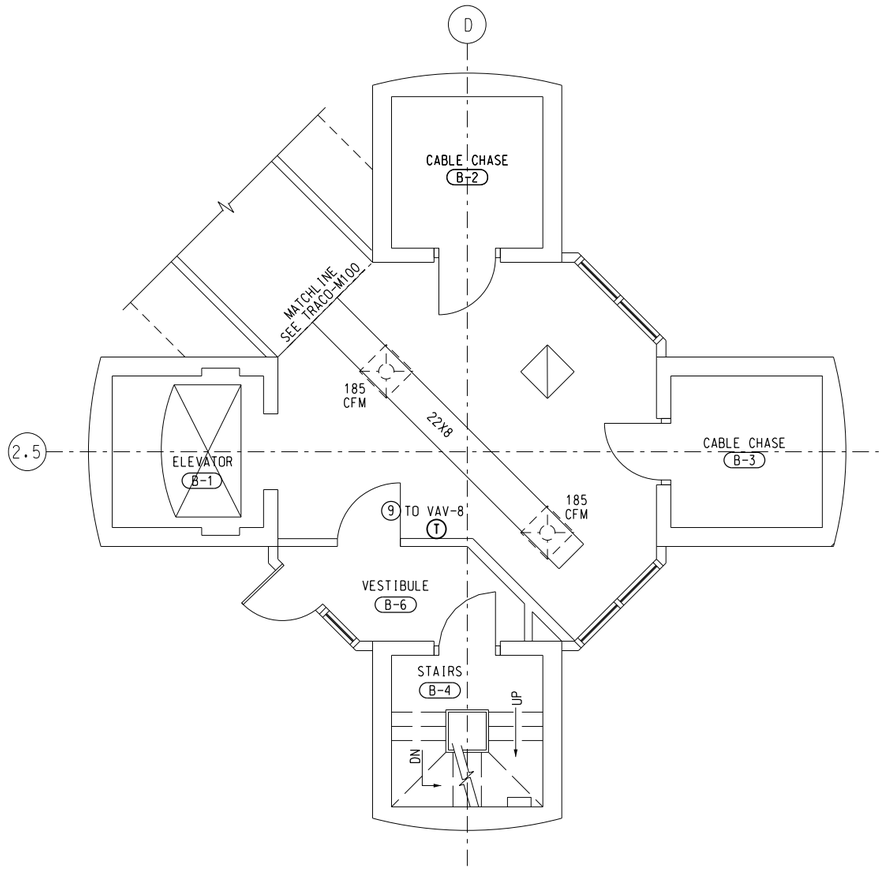
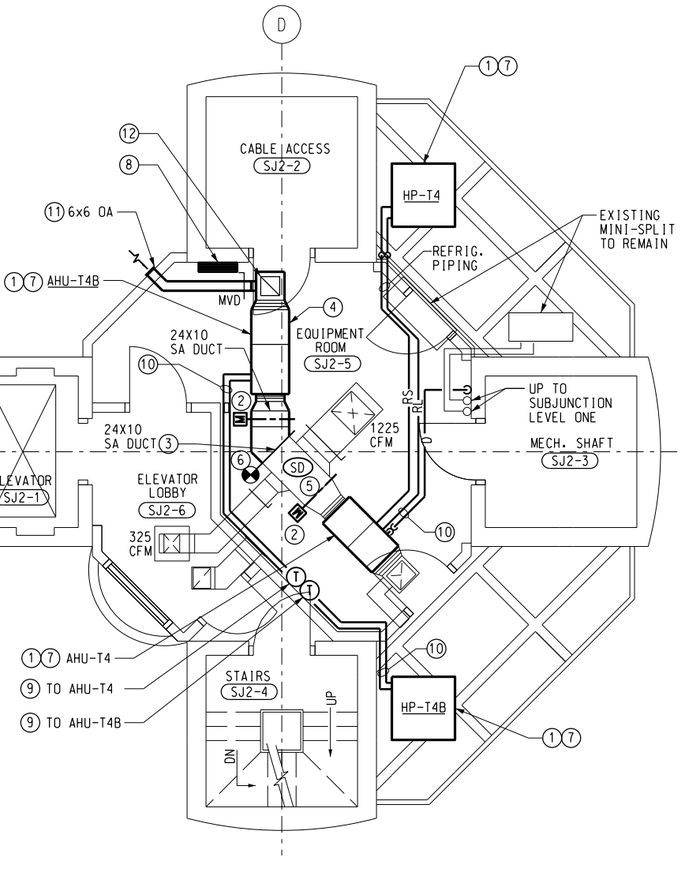
678.320.1888
wileywilson.com

WW JOB NUMBER: 219075.00

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
DESIGNED GMR	ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN 31, 2020 JCN 1508912
DRAWN GMR		DRAWING NO FLL-D-ATCT-A611 REV
CHECKED NXE		



1 M100 GROUND LEVEL PLAN - HVAC
SCALE: 1/4" = 1'-0"



2 M100 SUBJUNCTION LEVEL TWO PLAN - HVAC
SCALE: 1/4" = 1'-0"

NOTES

1. SEE CONTROL DRAWINGS FOR NEW CONTROLS.
2. NEW MOTOR-OPERATED DAMPERS WITH NEW MOTOR ACTUATORS AND CONTROLS. SEE CONTROLS DIAGRAMS FOR DETAILS.
3. SEE DETAIL 4 ON DRAWING M601(TRACO) FOR DUCT INSTALLATION DETAILS.
4. RELOCATE CONDUIT, SPLICE AND PATCH TO EXPAND WHERE NECESSARY, SEE ELECTRICAL FOR DETAILS.
5. NEW SMOKE DETECTOR IN SUPPLY DUCT. SEE CONTROL DRAWINGS FOR DETAILS.
6. REMOVE END OF DUCT AND FASTEN NEW DUCT TO EXISTING, SEAL AIR-TIGHT.
7. INSTALL NEW AHU-T4 AND HP-T4, AHU-T4B AND HP-T4B.
8. INSTALL NEW DDC CONTROL PANEL FOR UNITS AHU-T4, T4B.
9. INSTALL NEW THERMOSTAT TO BE INTERLOCKED WITH NEW DDC CONTROLS.
10. NEW LINESET.
11. INSTALL NEW OUTDOOR AIR DUCT ROUTED TO WALL WITH WALLCAP, WALLCAP SHALL BE EQUIPPED WITH BIRDSCREEN AND BACKFLOW DAMPER.
12. INSTALL NEW RETURN AIR GRILLE IDENTICAL TO THAT WHICH IS EXISTING. BOD SHALL BE TITOS 50F, WITH 18x18 NECK.

GENERAL

A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN IS LIGHT SOLID LINE.

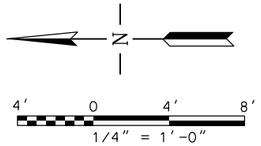
B. CONTRACTOR SHALL PERFORM AIR FLOW TEST AND REBALANCE ALL EXISTING AND NEW AIR DEVICES TO AIR FLOW INDICATED.

C. PROVIDE NEW SPLIT SYSTEM (AHU/HP) WALL MOUNTED THERMOSTATS AS INDICATED, AND ASSOCIATED CONTROLS.

D. WHERE NEW CONNECTION TO EXISTING IS INDICATED, THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND EXACT LOCATION OF THE EXISTING WORK AT THE POINT OF CONNECTION. NEW DUCT AND PIPE SIZE SHALL MATCH THE EXISTING.

E. ALL NEW EXPOSED DUCTWORK SHALL BE INSULATED DOUBLE WALL DUCT AS PER SPECIFICATIONS, UNLESS OTHERWISE NOTED.

G. SEE DRAWING TRACO-M000 FOR HVAC LEGEND, GENERAL NOTES AND SPECIAL NOTES.



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 1/31/2020

Wiley|Wilson
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wileywilson.com

WW JOB NUMBER: 219075.00

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

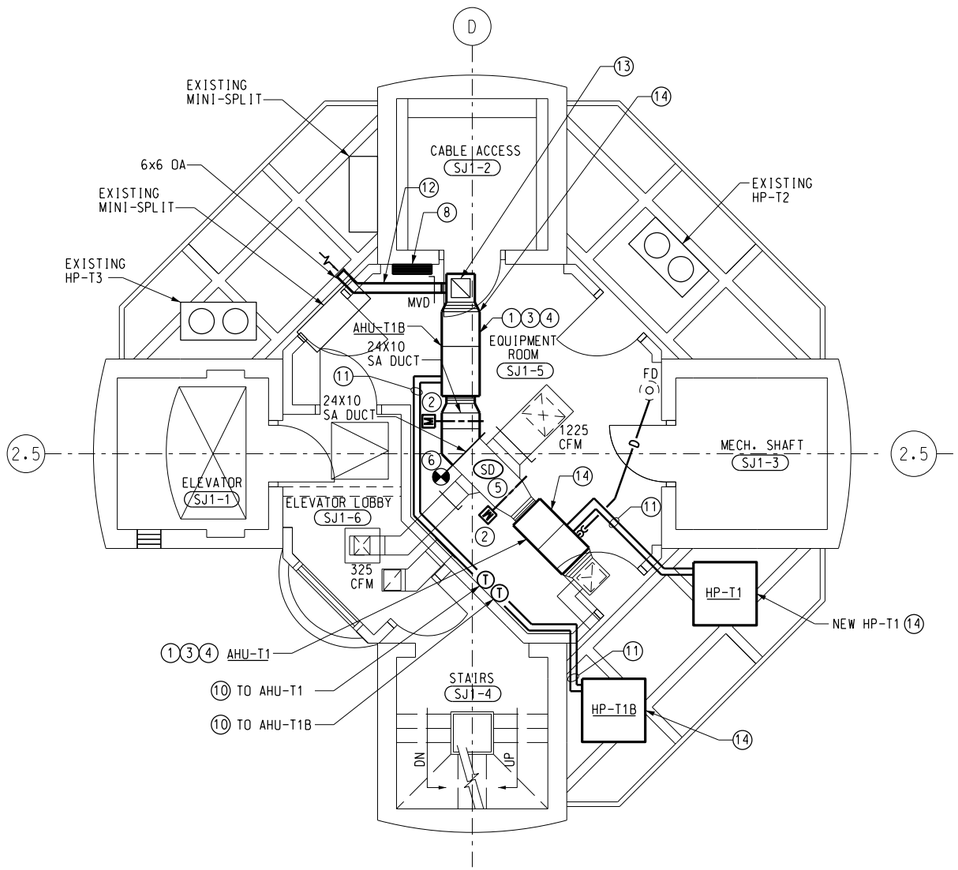
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
GROUND LEVEL AND SUBJUNCTION LEVEL 2 - HVAC

FT LAUDERDALE (INTERNATIONAL) FL

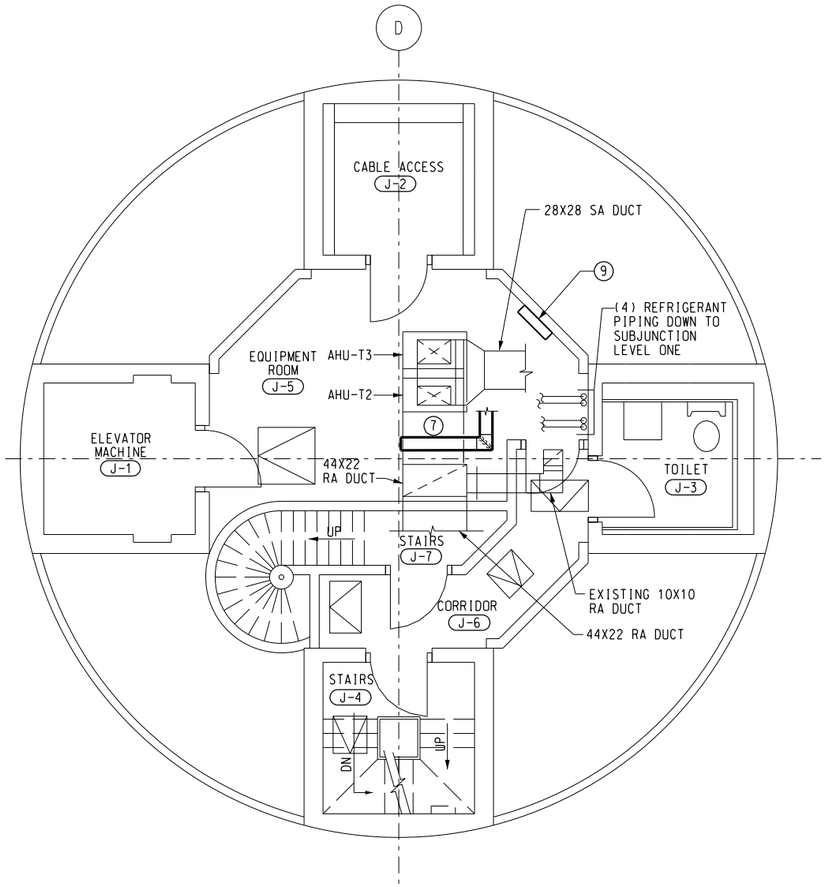
REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JJS | DRAWN CRK | CHECKED JJS
ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN 31, 2020 | JCN 1508912
DRAWING NO FLL-D-ATCT-M100 | REV



1 M101 SUBJUNCTION LEVEL 1 PLAN - HVAC

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



2 M101 JUNCTION LEVEL PLAN - HVAC

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

NOTES

1. SEE CONTROL DRAWINGS FOR NEW CONTROLS.
2. NEW MOTOR-OPERATED DAMPERS WITH NEW MOTOR ACTUATORS AND CONTROLS. SEE CONTROLS DIAGRAMS FOR DETAILS.
3. SEE DETAILS 2 AND 3 ON DRAWING TRACO-M602 FOR INSTALLATION DETAILS.
4. RELOCATE CONDUIT, SPLICE AND PATCH TO EXPAND NECESSARY, SEE ELECTRICAL FOR DETAILS.
5. NEW SMOKE DETECTOR IN SUPPLY DUCT. SEE CONTROL DRAWINGS FOR DETAILS.
6. REMOVE DUCT CAP AND MAKE NEW DUCT TO EXISTING. SEAL AIR TIGHT.
7. INSTALL 8X8 DUCTWORK BETWEEN EXISTING OA INTAKE AND RA DUCT. NEW OA DUCT SHALL BE INSULATED WITH R-8 WRAP AND UNSTALL PER SPECIFICATIONS. SEAL DUCT CONNECTIONS AND FITTINGS AIR-TIGHT. INSTALL MANUAL VOLUME DAMPER WHERE OA DUCT CONNECTS TO MIXED AIR PLENUM. PROVIDE TRANSITION FITTINGS BETWEEN INTAKE AND OA DUCTWORK.
8. INSTALL NEW DDC CONTROL PANEL FOR AHU-T1 AND T1B. COORDINATE WITH ELECTRICAL.
9. INSTALL NEW DDC CONTROL PANEL FOR AHU-T2 AND T3. COORDINATE WITH ELECTRICAL.
10. INSTALL NEW THERMOSTAT TO BE INTERGRATED PROVIDE WITH NEW DDC CONTROLS.
11. NEW LINESET.
12. INSTALL NEW OUTDOOR AIR DUCT ROUTED TO WALL WITH WALLCAP, WALLCAP EQUIPPED WITH BIRDSCREEN AND BACKFLOW DAMPER.
13. INSTALL NEW RETURN AIR GRILLE IDENTICAL TO EXISTING. BOD SHALL BE TITOS 50F, WITH 18x18 NECK.
14. INSTALL NEW SPLIT SYSTEM, AHU/HP-T1 AND AHU/HP-T1B.

GENERAL

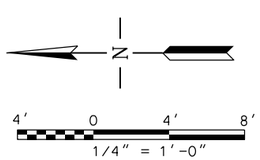
A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN IS LIGHT SOLID LINE.

B. CONTRACTOR SHALL PERFORM AIR FLOW TEST AND REBALANCE ALL EXISTING AND NEW AIR DEVICES TO AIR FLOW INDICATED.

C. WHERE NEW CONNECTION TO EXISTING IS INDICATED, THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND EXACT LOCATION OF THE EXISTING WORK AT THE POINT OF CONNECTION. NEW DUCT AND PIPE SIZE SHALL MATCH THE EXISTING.

D. ALL NEW EXPOSED DUCTWORK SHALL BE INSULATED DOUBLE WALL DUCT AS PER SPECIFICATIONS, UNLESS OTHERWISE NOTED.

E. SEE DRAWING TRACO-M000 FOR HVAC LEGEND, GENERAL NOTES AND SPECIAL NOTES.



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

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GEORGIA REGISTERED 1/31/2020 No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH

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WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL - HVAC

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JJS	ISSUED BY	DATE JAN 31, 2020	JCN 1508912
DRAWN CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO	REV
CHECKED JJS		FLL-D-ATCT-M101	

SPLIT SYSTEM HEAT PUMP SCHEDULE

AIR HANDLING UNIT (INDOOR)

MARK	AIRFLOW				COIL PERFORMANCE									ELECTRIC HEAT	ELECTRIC DATA			LOCATION
					COOLING @ 95°F AMBIENT						HEATING @ 47°F							
	SA CFM	OA CFM	ESP (IN WG)	FAN HP	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB (°F)	EAT WB (°F)	LAT F (DB)	LAT F (WB)	CAPACITY, HIGH (MBH)	EAT (°F)	LAT (°F)	kW	VOLTS	PH	HZ	
AHU-T1	1681	100	0.7	0.75	54.8	38.5	80	67	58.8	56.7	60.7	70	103	7.2	208	1	60	EQUIPMENT ROOM, SUBJUNCTION ONE
AHU-T1B	1681	100	0.7	0.75	54.8	38.5	80	67	58.8	56.7	60.7	70	103	7.2	208	1	60	EQUIPMENT ROOM, SUBJUNCTION ONE
AHU-T4	1681	100	0.7	0.75	54.8	38.5	80	67	58.8	56.7	60.7	70	103	7.2	208	1	60	EQUIPMENT ROOM, SUBJUNCTION TWO
AHU-T4B	1681	100	0.7	0.75	54.8	38.5	80	67	58.8	56.7	60.7	70	103	7.2	208	1	60	EQUIPMENT ROOM, SUBJUNCTION TWO

HEAT PUMP UNIT (OUTDOOR)

MAKE AND MODEL	MARK	MINIMUM SEER	HSPF	ELECTRIC DATA			UNIT AMPACITY (AMP)	LOCATION	MAKE AND MODEL	REMARKS
				VOLTS	PH	HZ				
YORK AE60DX21	HP-T1	14	8.2	208	3	60	21.22	PLATFORM, SUBJUNCTION TWO	YORK THE60B315	(1) THRU (18)
YORK AE60DX21	HP-T1B	14	8.2	208	3	60	21.22	PLATFORM, SUBJUNCTION TWO	YORK THE60B315	(1) THRU (18)
YORK AE60DX21	HP-T4	14	8.2	208	3	60	21.22	PLATFORM, SUBJUNCTION TWO	YORK THE60B315	(1) THRU (18)
YORK AE60DX21	HP-T4B	14	8.2	208	3	60	21.22	PLATFORM, SUBJUNCTION TWO	YORK THE60B315	(1) THRU (18)

(1) MAINTAIN MANUFACTURER'S RECOMMEND CLEARANCES FOR SERVICE AND AIRFLOW.

(2) SPLIT SUBMITTAL'S SHALL INCLUDE DATA ON LINESET LENGTH LIMITATIONS AND DE-RATING VALUES THEREIN.

(3) SELECTIONS SHALL BE BASED ON CAPACITIES AND NOT NOMINAL TONNAGE LISTED FOR REFERENCE ONLY.

(4) COOLING CAPACITIES BASED ON 95 DEGREE AMBIENT AIR TEMPERATURE, 80 DEGREES DB EAT, AND 67 DEGREES WB EAT.

(5) ELECTRIC STRIP HEAT BASED ON SCHEDULED CFM VALUES AND A 13 DEGREE DELTA-T.

(6) HEAT PUMPS SHALL BE PROVIDED WITH NECESSARY KIT AND ACCESSORIES FOR LOW -AMBIENT COOLING OPERATION.

(7) MOUNT INDOOR UNIT FROM STRUCTURE PER FEMA SEISMIC REQUIREMENTS.

(8) PROVIDE FIELD POWERED CONVENIENCE OUTLET.

(9) PROVIDE SMOKE DETECTOR IN FAN COIL UNIT SUPPLY DUCT. SMOKE DETECTOR SHALL BE INTERLOCKED TO FIRE PROTECTION CONTROLS. CONTRACTOR SHALL PROVIDE AND COORDINATE WITH FIRE PROTECTION CONTRACTOR.

(10) PROVIDE WITH THERMOSTAT/HUMIDISTAT TO BE INTEGRATED WITH DDC SYSTEM. MOUNT THERMOSTAT MIN. 48" AFF. THERMOSTAT/HUMIDISTAT SHALL BE PASSWORD PROTECTED OR TAMPER-PROOF. SEE CONTROLS DRAWINGS FOR SETTINGS.

(11) PROVIDE THERMOSTATIC EXPANSION VALVE.

(12) PROVIDE WITH CONDENSATE OVERFLOW SWITCH. SWITCH SHALL SHUT DOWN UNIT AND INDICATE ALARM IN DDC. SEE CONTROL DRAWINGS.

(13) PROVIDE WITH CONDENSATE PUMP CAPABLE OF 10 FT. HD AND 25 GPH, BOD: LITTLE GIANT VCMA-15UL.

(14) PROVIDE SECONDARY CORROSION-RESISTANT DRAIN PAN.

(15) SHOP DRAWINGS SHALL INCLUDE COMBINATION RATINGS.

(16) PROVIDE MODINE ELECTROFIN E-COAT ON CONDENSER AND EVAPORATOR COILS.

(17) PROVIDE NEW DDC CONTROL PANEL PER PLANS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL AND WITH CONTROLS CONTRACTOR.

(18) PROVIDE ELECTRICAL DISCONNECT. COORDINATE WITH ELECTRICAL.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 01/31/2020

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

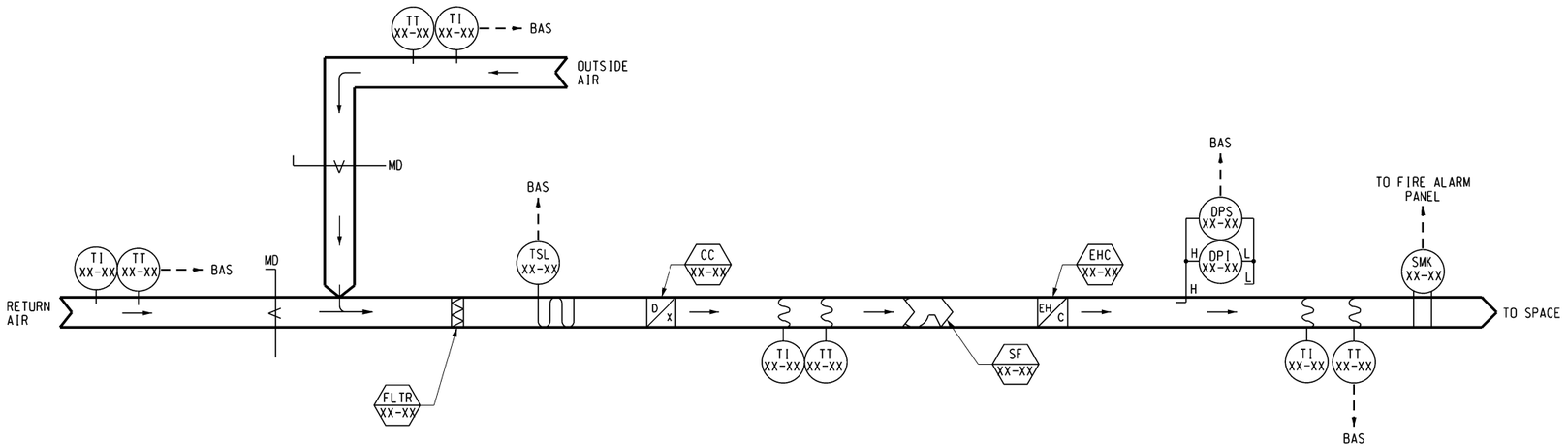
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
HVAC SCHEDULES

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
	DESIGNED JJS	ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
	DRAWN CRK	DATE JAN 31, 2020 JCN 1508912
	CHECKED JJS	DRAWING NO FLL-D-ATCT-M500 REV

NOTES

1. SEE DRAWING TRACO-M000 FOR HVAC LEGEND AND GENERAL NOTES.
2. THE SMOKE DETECTOR AND FIRE ALARM CONTROL MODULES SHALL BE FURNISHED AND INSTALLED BY FIRE ALARM CONTRACTOR.
3. INSTRUMENT NUMBER ASSIGNMENTS ARE OMITTED WHEN DIAGRAMS APPLY TO MULTIPLE SYSTEMS/ EQUIPMENT. CONTRACTOR SHALL ASSIGN THEM.



1 M800 CONTROL SYSTEM DIAGRAM - AHUs-T1/T1B, T4/T4B

NOT TO SCALE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 1/31/2020

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WW JOB NUMBER: 219075.00

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
CONTROL SYSTEM DIAGRAM AHUs-T1/T1B, T4/T4B

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JJS
DRAWN CRK
CHECKED JJS
ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN 31, 2020
JCN 1508912
DRAWING NO FLL-D-ATCT-M800
REV

GENERAL

- THE NEW HVAC CONTROL SYSTEM SHALL BE DIRECT DIGITAL CONTROL (DDC) SYSTEM, "SMARTSTRUXURE" AS MANUFACTURED BY SCHNEIDER ELECTRIC.
- NEW THERMOSTATS SHALL BE SCHNEIDER ELECTRIC STR 250, WALL-MOUNTED ALPHANUMERIC DISPLAY WITH ADJUSTABLE DDC DETERMINED DEADBAND.
- PROVIDE A NEW DDC CENTRAL WORKSTATION WHERE DIRECTED BY THE FAA CONTRACTING OFFICER REPRESENTATIVE.

SEQUENCE OF OPERATION: AHU/HP-T2, AHU/HP-T3 (EXISTING)

- AHU AND ASSOCIATED HP SHALL BE STARTED AND CONTROLLED DIRECTLY BY A PANEL MOUNTED PROCESS CONTROL UNIT. THE PCU SHALL CONTROL OPERATION OF THE HEAT PUMP SUPPLY FAN, CONDENSING UNIT, REVERSING VALVE AND SUPPLEMENTAL HEAT TO MAINTAIN SPACE TEMPERATURE CONDITIONS AS MEASURED BY SPACE TEMPERATURE SENSORS LOCATED IN THE CAB. THE ISOLATION DAMPERS IN THE SUPPLY AND RETURN WILL BE INTERLOCKED WITH THE SUPPLY FAN.
- AHU-T2/HP-T2 AND AHU-T3/HP-T3 ARE TWO UNITS SERVING THE SAME AREA. DDC SYSTEM SHALL ASSIGN ONE SYSTEM "PRIMARY" RESPONSIBILITY AND THE OTHER SYSTEM "STANDBY" RESPONSIBILITY AND SHALL REVERSE THE ASSIGNMENT BI-MONTHLY TO EQUALIZE RUN-TIME ACCUMULATION. REASSIGNMENT OF PRIMARY AND STANDBY STATUS SHALL NOT OCCUR IF A SYSTEM FAILURE FLAG IS SET. THE PRIMARY SYSTEM SHALL OPERATE TO MAINTAIN SPACE CONDITIONS. IF THE SPACE TEMPERATURE SETPOINT IS NOT REACHED AFTER TEN MINUTES (ADJUSTABLE) OF CONTINUOUS OPERATION OF THE PRIMARY SYSTEM, THE DDC SYSTEM SHALL STOP THE PRIMARY SYSTEM AND REVERSE THE PRIMARY AND STANDBY ASSIGNMENTS. THE NEWLY DESIGNATED PRIMARY SYSTEM SHALL BE STARTED. THE DDC SYSTEM SHALL SEND AN ALARM AND SHALL SET A FAILURE FLAG FOR THE STOPPED SYSTEM.
- ISOLATION DAMPERS IN THE SUPPLY AND RETURN SHALL BE INTERLOCKED WITH THEIR RESPECTIVE SUPPLY FAN AND SHALL OPEN BEFORE THE SUPPLY FAN IS STARTED AND CLOSE WHEN THE FAN IS STOPPED. THE FAN MOTOR OPERATION SHALL BE CONTROLLED BY DAMPER END POSITION SWITCHES.
- THE PROCESS CONTROL UNIT SHALL MONITOR THE SPACE CONDITIONS VIA A WALL MOUNTED THERMOSTAT (ADJUSTABLE). THE THERMOSTAT SHALL BE MOUNTED IN THE CAB IN A READILY ACCESSIBLE LOCATION.
- WHEN HUMIDITY RISES ABOVE THE SETPOINT (ADJUSTABLE) AS SENSED BY THE SPACE SENSOR, THE UNIT SHALL ENTER COOLING MODE AND SHALL CONTINUE UNTIL SUCH TIME AS THE HUMIDITY LEVELS ARE REDUCED TO LEVELS BELOW SETPOINT. IF SUBSEQUENT HEATING IS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT, THE ELECTRIC HEATING COIL SHALL BE ENERGIZED AS REQUIRED TO MAINTAIN SPACE TEMPERATURE. WHEN SPACE HUMIDITY HAS BEEN REDUCED TO BELOW SETPOINT ELECTRIC HEATING AND COOLING MODE SHALL BE EXITED AND THE UNIT SHALL RESUME NORMAL OPERATION.
- SMOKE DETECTORS IN THE SUPPLY AIR AND RETURN AIR DUCTWORK SHALL STOP THE SUPPLY FAN AND INITIATE A SMOKE ALARM IF SMOKE IS DETECTED AT EITHER LOCATION. RESTARTING THE SUPPLY FAN SHALL REQUIRE MANUAL RESET AT THE SMOKE DETECTOR.

SEQUENCE OF OPERATION (EXISTING EXHAUST FAN)

- EXISTING EXHAUST FAN (INLINE CENTRIFUGAL TYPE SERVING THE TOILET ON JUNCTION LEVEL IN THE TOWER) SHALL BE CONTROLLED AND RUN STATUS MONITORED VIA THE DDC SYSTEM. FAN SHALL BE CONTROLLED TO RUN DURING OCCUPIED TIMES AS DETERMINED BY OPERATION OF AHU-T2 AND AHU-T3.

SEQUENCE OF OPERATION: AHU/HP-T1, T1B, T4, T4B (NEW)

- AHU AND ASSOCIATED HP SHALL BE STARTED AND CONTROLLED DIRECTLY BY A PANEL MOUNTED PROCESS CONTROL UNIT. THE PCU SHALL CONTROL OPERATION OF THE HEAT PUMP SUPPLY FAN, CONDENSING UNIT, REVERSING VALVE AND SUPPLEMENTAL HEAT TO MAINTAIN SPACE TEMPERATURE CONDITIONS AS MEASURED BY SPACE TEMPERATURE SENSORS LOCATED IN TOWER SUBJUNCTION LEVEL 1 AND SUBJUNCTION LEVEL 2. THE ISOLATION DAMPERS IN THE SUPPLY DUCTS SHALL BE INTERLOCKED WITH THE SUPPLY FAN.
- AHU/HP-T1/T1B AND AHU/HP-T4/T4B ARE TWO REDUNDANT SYSTEMS SERVING THEIR RESPECTIVE AREAS. DDC SYSTEM SHALL ASSIGN ONE SYSTEM "PRIMARY" RESPONSIBILITY AND THE OTHER SYSTEM "STANDBY" RESPONSIBILITY AND SHALL REVERSE THE ASSIGNMENT BI-MONTHLY TO EQUALIZE RUN-TIME ACCUMULATION. REASSIGNMENT OF PRIMARY AND STANDBY STATUS SHALL NOT OCCUR IF A SYSTEM FAILURE FLAG IS SET. THE PRIMARY SYSTEM SHALL OPERATE TO MAINTAIN SPACE CONDITIONS. IF THE SPACE TEMPERATURE SETPOINT IS NOT REACHED AFTER TEN MINUTES (ADJUSTABLE) OF CONTINUOUS OPERATION OF THE PRIMARY SYSTEM, THE DDC SYSTEM SHALL STOP THE PRIMARY SYSTEM AND REVERSE THE PRIMARY AND STANDBY ASSIGNMENTS. THE NEWLY DESIGNATED PRIMARY SYSTEM SHALL BE STARTED. THE DDC SYSTEM SHALL SEND AN ALARM AND SHALL SET A FAILURE FLAG FOR THE STOPPED SYSTEM.
- ISOLATION DAMPERS IN THE SUPPLY DUCTS SHALL BE INTERLOCKED WITH THEIR RESPECTIVE SUPPLY FANS. THE PROCESS CONTROL UNIT SHALL MONITOR THE SPACE CONDITIONS BY A WALL MOUNTED THERMOSTAT. THE THERMOSTAT SHALL BE LOCATED WITHIN THE SPACE AS SHOWN IN THE DRAWINGS.
- WHEN HUMIDITY RISES ABOVE THE SETPOINT (ADJUSTABLE) AS SENSED BY THE SPACE SENSOR, THE UNIT SHALL ENTER COOLING MODE AND SHALL CONTINUE UNTIL SUCH TIME AS THE HUMIDITY LEVELS ARE REDUCED TO LEVELS BELOW SETPOINT. IF SUBSEQUENT HEATING IS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT, THE ELECTRIC HEATING COIL SHALL BE ENERGIZED AS REQUIRED TO MAINTAIN SPACE TEMPERATURE. WHEN SPACE HUMIDITY HAS BEEN REDUCED TO BELOW SETPOINT ELECTRIC HEATING AND COOLING MODE SHALL BE EXITED AND THE UNIT SHALL RESUME NORMAL OPERATION.
- ISOLATION DAMPERS IN THE SUPPLY AND RETURN SHALL BE INTERLOCKED WITH THEIR RESPECTIVE SUPPLY FAN AND SHALL OPEN BEFORE THE SUPPLY FAN IS STARTED AND CLOSE WHEN THE FAN IS STOPPED. THE FAN MOTOR OPERATION SHALL BE CONTROLLED BY DAMPER END POSITION SWITCHES.
- SMOKE DETECTORS IN THE SUPPLY AIR DUCTWORK SHALL STOP THE SUPPLY FAN AND INITIATE A SMOKE ALARM IF SMOKE IS DETECTED AT EITHER LOCATION. RESTARTING THE SUPPLY FAN SHALL REQUIRE MANUAL RESET AT THE SMOKE DETECTOR.

DDC SETPOINTS:

- THE CONTROL SYSTEM SETPOINTS AND DEADBANDS SHALL BE ADJUSTABLE AND SHALL BE SET AS:

ROOM	SETPOINT COOLING/HEATING	DEADBAND COOLING/HEATING
CAB	73°F/73°F	-2°F/+2°F
REMAINING SPACES	75°F/75°F	-2°F/+2°F

INPUT - OUTPUT SUMMARY

POINT DESCRIPTION	INPUTS									OUTPUTS							
	ANALOG					DIGITAL				ANALOG				DIGITAL			
AHU-T1/HP-T1 AHU-T1B/HP-T1B AHU-T2/HP-T2 AHU-T3/HP-T3 AHU-T4/HP-T4 AHU-T4B/HP-T4B	HUMIDITY	TEMPERATURE	DUCT STATIC PRESSURE	DIFFERENTIAL PRESSURE		AUXILIARY CONTACT	DIFFERENTIAL PRESSURE SW	CURRENT RELAY	END POSITION SWITCH	0-10 VOLT CONTROL	POSITION ADJUSTMENT			CONTROL RELAY(S)	STATUS		
SPACE	X	X															
SUPPLY AIR		X															
FILTER																	
SUPPLY FAN								X						X			
CONDENSING UNIT STAGES														X			
REVERSING VALVE														X			
SUPPLEMENTAL HEAT STAGES														X			
OUTSIDE AIR		X															
COMMON RETURN AIR		X															
COMMON MIXED AIR		X															
SMOKE DETECTORS						X											
EXISTING EXHAUST FAN							X							X			
MOTORIZED ISOLATION DAMPER						X			X		X						
AUXILIARY HEAT						X									X		

INPUT - OUTPUT SUMMARY

POINT DESCRIPTION	INPUTS							OUTPUTS							
	ANALOG				DIGITAL			ANALOG				DIGITAL			
FIRE ALARM	TEMPERATURE	DUCT STATIC PRESSURE	DIFFERENTIAL PRESSURE		AUXILIARY CONTACT	DIFFERENTIAL PRESSURE SW	CURRENT RELAY	0-10 VOLT CONTROL	POSITION ADJUSTMENT			CONTROL RELAY(S)			
TOWER GENERAL ALARM					X										
BASE BUILDING GENERAL ALARM					X										
GENERAL TROUBLE					X										
GENERAL SUPERVISORY					X										

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 1/31/2020

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WW JOB NUMBER: 219075.00

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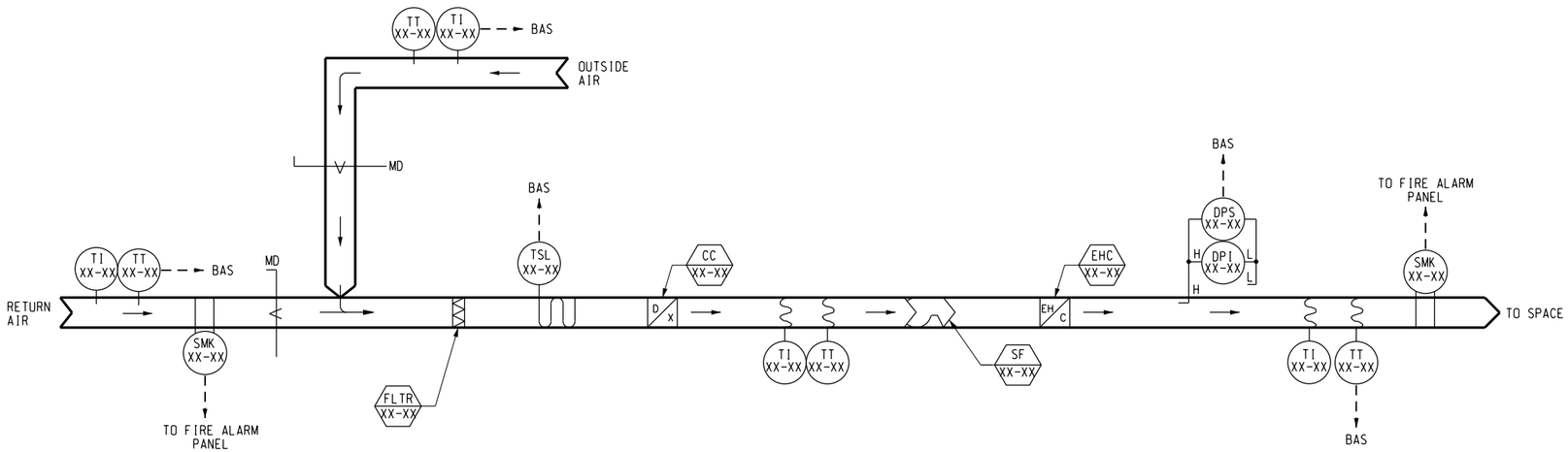
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
SEQUENCE OF OPERATION AND SYSTEM POINT LIST

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
DESIGNED JJS	ISSUED BY	DATE JAN 31, 2020 JCN 1508912
DRAWN CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO FLL-D-ATCT-M801 REV
CHECKED JJS		



1 / M801 CONTROL SYSTEM DIAGRAM - FCU-T2 AND FCU-T3

NOT TO SCALE

NOTES

1. SEE DRAWING TRACO-M000 FOR HVAC LEGEND AND GENERAL NOTES.
2. THE SMOKE DETECTOR AND FIRE ALARM CONTROL MODULES SHALL BE FURNISHED AND INSTALLED BY FIRE ALARM CONTRACTOR.
3. INSTRUMENT NUMBER ASSIGNMENTS ARE OMITTED WHEN DIAGRAMS APPLY TO MULTIPLE SYSTEMS/ EQUIPMENT. CONTRACTOR SHALL ASSIGN THEM.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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GEORGIA REGISTERED No. PE044677 PROFESSIONAL ENGINEER JAMES JOEL SMITH 1/31/20

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
MECHANICAL
CONTROL SYSTEM DIAGRAM FCU-T2 AND FCU-T3

FT LAUDERDALE (INTERNATIONAL) FL

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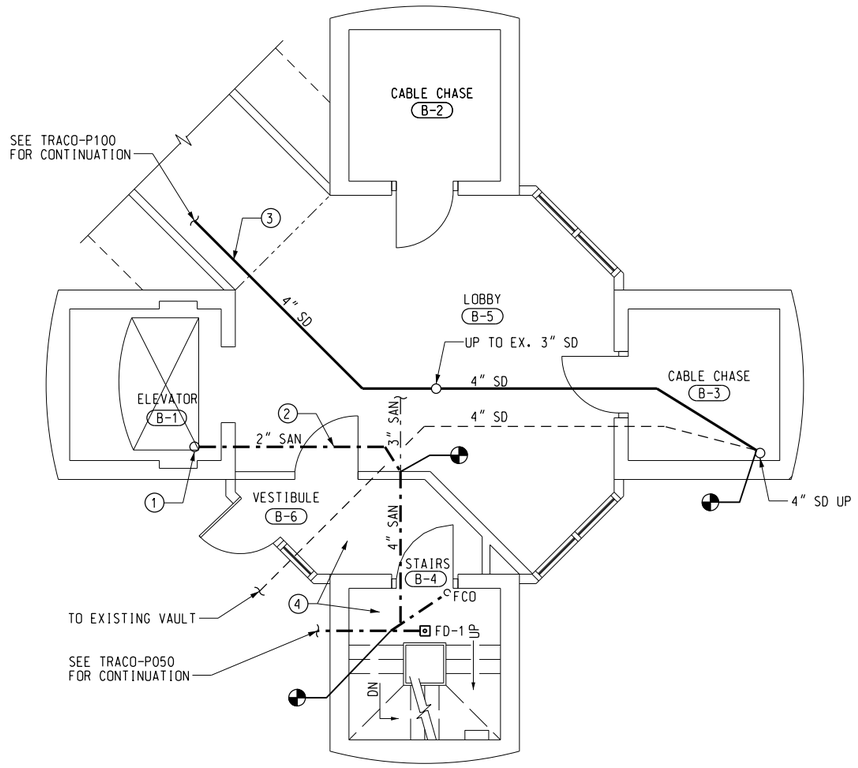
DESIGNED JJS	ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN 31, 2020 JCN 1508912
DRAWN CRK		DRAWING NO FLL-D-ATCT-M802 REV
CHECKED JJS		



1 P400 GROUND LEVEL PLUMBING PLAN

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

NOTES

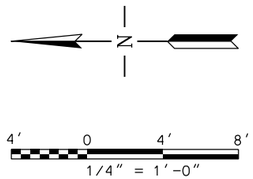
1. CONNECT EXISTING SUMP PUMP TO NEW SEWER LINE. INCLUDE PIPE UNIONS THAT CAN BE REMOVED DURING PUMP MAINTENANCE.
2. PERFORM REPAIR ON THIS LINE UP TO MAIN LINE CONNECTION. REPAIR OF REST OF LINE MUST BE PERFORMED IN STAGES TO ALLOW TOWER TO REMAIN IN OPERATION.
3. STORM DRAINS SHALL BE REPLACED PIECEMEAL TO ALLOW TOWER TO REMAIN IN OPERATION.
4. ALL WORK IN THIS AREA MUST ALLOW EGRESS PATH TO REMAIN IN OPERATION.

GENERAL

A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN AS LIGHT DASHED LINE.

B. SEE TRACO-P000 FOR GENERAL NOTES AND SYMBOLS. SEE TOWB-G010 AND TOWB-G011 FOR ABBREVIATIONS.

C. PIPE TO BE OF MATERIALS DESCRIBED IN AND SHALL BE INSTALLED PER SPECIFICATIONS.



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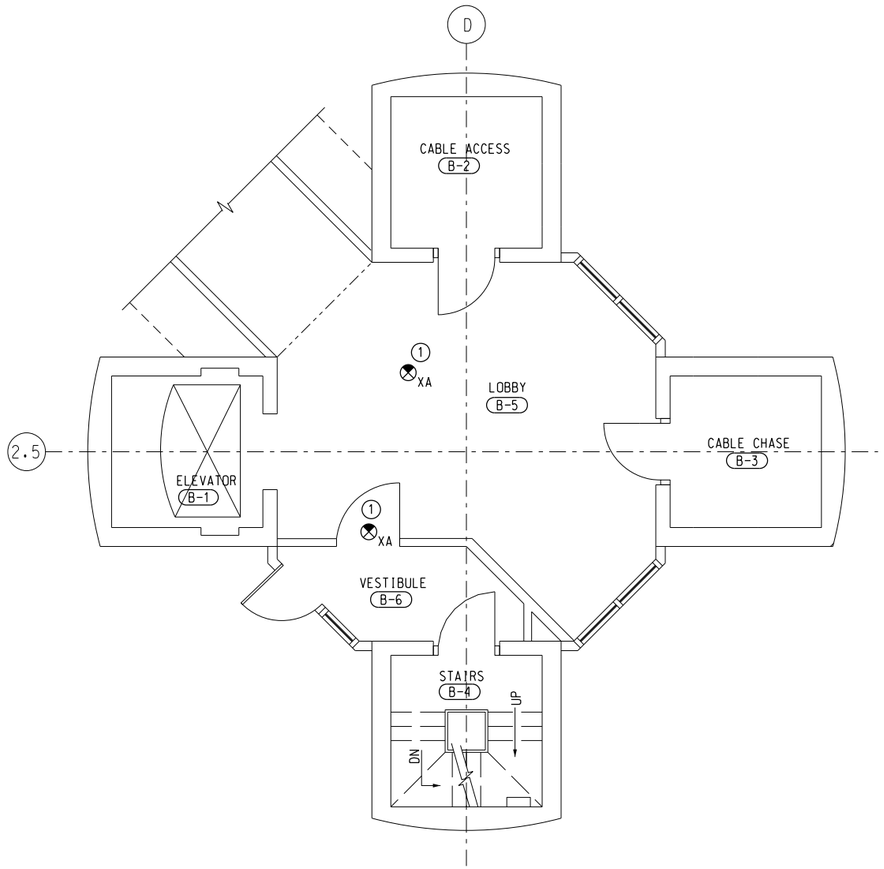
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
PLUMBING
GROUND LEVEL PLAN - NEW WORK

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
	DESIGNED JJS	ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
	DRAWN CRK	DATE JAN 31, 2020 JCN 1508912
	CHECKED JJS	DRAWING NO FLL-D-ATCT-P400 REV



1 / E120 GROUND LEVEL POWER PLAN - NEW WORK

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

GENERAL NOTES

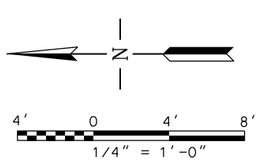
A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN IS LIGHT SOLID LINE.

B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

C. ALL EXTERIOR BOXES, HANGERS, MOUNTING SUPPORTS AND HARDWARE SHALL BE STAINLESS STEEL TYPE MATERIAL.

KEY NOTES

(1) PROVIDE NEW LED EXIT SIGN WITH 90-MINUTE BATTERY BACKUP. CONNECT NEW EXIT SIGN TO EXISTING CIRCUIT SERVED BY PANEL #9.



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GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 1/31/2020

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WW JOB NUMBER: 219075.00

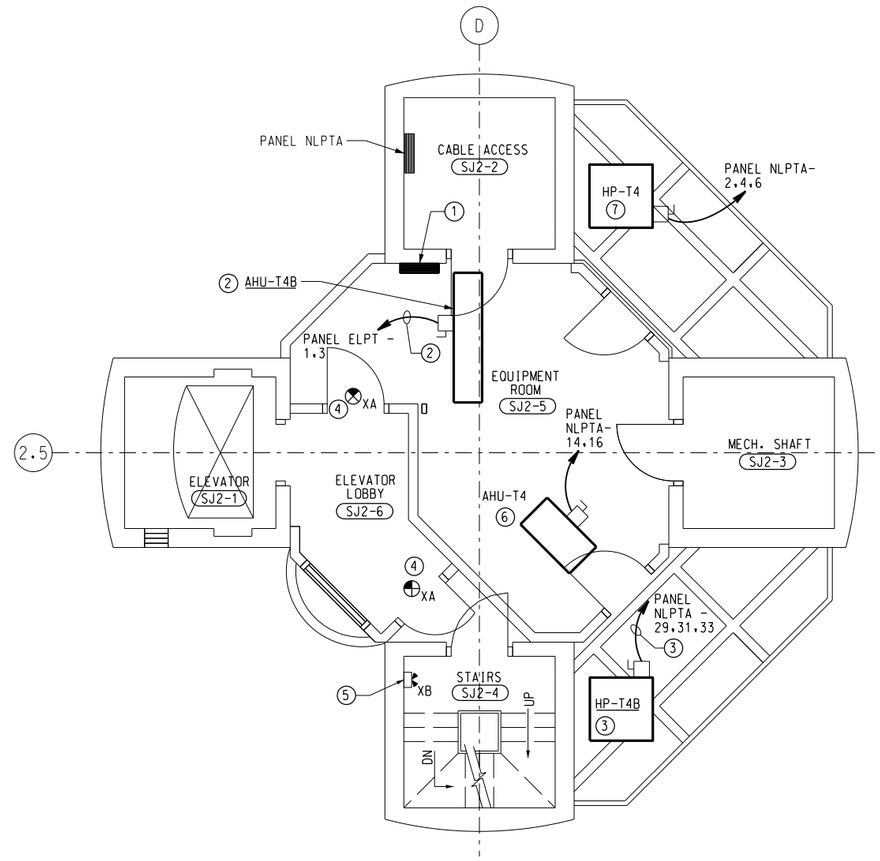
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
GROUND LEVEL POWER PLAN - NEW WORK

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JMC	ISSUED BY	DATE JAN 31, 2020	JCN 1508912	
DRAWN CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO FLL-D-ATCT-E120		REV
CHECKED MAK				



1 / E121 SUBJUNCTION LEVEL TWO POWER PLAN - NEW WORK

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

GENERAL NOTES

A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN IS LIGHT SOLID LINE.

B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

C. ALL EXTERIOR BOXES, HANGERS, MOUNTING SUPPORTS AND HARDWARE SHALL BE STAINLESS STEEL TYPE MATERIAL.

KEY NOTES

(1) NEW DDC CONTROL PANEL. CONNECT TO EXISTING CIRCUIT. CONTRACTOR SHALL FIELD VERIFY CIRCUIT PRIOR TO INSTALLATION.

(2) NEW MECHANICAL UNIT AHU-T4B. CONTRACTOR SHALL PROVIDE 60A NEMA 1, 208V 2-POLE NON-FUSED DISCONNECT. COORDINATE INSTALLATION WITH OVERHEAD EQUIPMENT TO COMPLY WITH REQUIRED NEC CLEARANCES. REPLACE 100A 3-POLE SPARE BREAKER IN PANEL ELPT WITH NEW 60A, 2-POLE BREAKER. PROVIDE NEW CONDUCTOR IN EMT CONDUIT TO PANEL ELPT WITH 3-#6AWG, #8G IN 1"C.

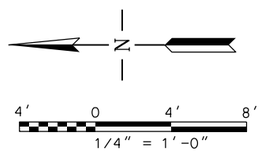
(3) NEW MECHANICAL UNIT HP-T4B. CONTRACTOR SHALL PROVIDE 30A NEMA 4X, 208V 3-POLE FUSED DISCONNECT MOUNTED TO WALL. PROVIDE STAINLESS STEEL MOUNTING HARDWARE AND SUPPORTS. PROVIDE NEW 30A, 3-POLE BREAKER IN PANEL NLPTA. PROVIDE NEW CIRCUIT TO PANEL WITH 4-#10AWG, #10G IN 3/4"C. FOR EXTERIOR, PROVIDE PVC COATED RIGID CONDUIT TO DISCONNECT SWITCH, AND LFMC CONDUIT TO UNIT. INSTALLATION SHALL COMPLY WITH REQUIRED NEC CLEARANCES.

(4) PROVIDE NEW LED EXIT SIGN WITH 90-MINUTE BATTERY BACKUP. CONNECT NEW EXIT SIGN TO EXISTING CIRCUIT SERVED BY PANEL NLPT.

(5) PROVIDE NEW EMERGENCY LIGHT FIXTURE. CONNECT NEW FIXTURE TO EXISTING CIRCUIT SERVED BY PANEL NLPT.

(6) CONNECT NEW AHU-T4 TO EXISTING CIRCUIT SERVED BY PANEL NLPTA. EXTEND WIRE AND CONDUIT AS REQUIRED FOR CONNECTION. CONTRACTOR SHALL PROVIDE 60A NEMA 1, 208, 2-POLE, NON-FUSED DISCONNECT. COORDINATE INSTALLATION WITH OVERHEAD EQUIPMENT TO COMPLY WITH REQUIRED NEC CLEARANCES.

(7) CONNECT NEW HP-T4 TO EXISTING CIRCUIT SERVED BY PANEL NLPTA, EXTEND WIRE AND CONDUIT AS REQUIRED. CONTRACTOR SHALL PROVIDE 30A NEMA 4X, 208V 3-POLE FUSED DISCONNECT MOUNTED TO WALL. PROVIDE STAINLESS STEEL MOUNTING HARDWARE AND SUPPORTS. FOR EXTERIOR, PROVIDE PVC COATED RIGID CONDUIT TO DISCONNECT SWITCH, AND LFMC CONDUIT TO UNIT. INSTALLATION SHALL COMPLY WITH REQUIRED NEC CLEARANCES.



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 11/31/2020

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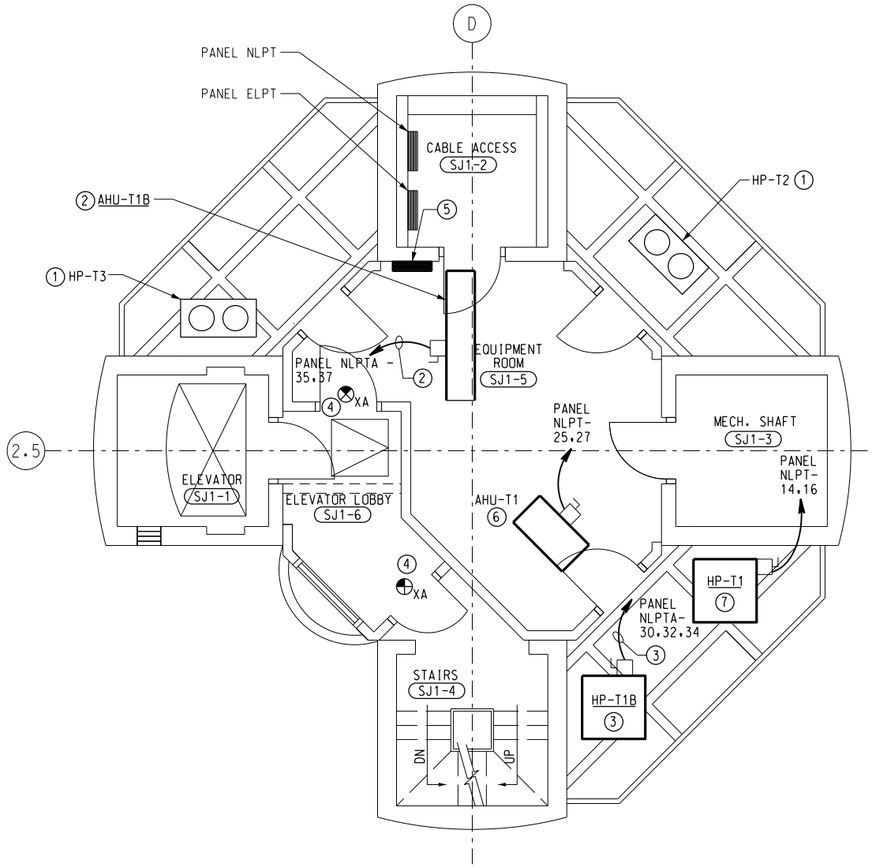
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
SUBJUNCTION LEVEL 2 POWER PLAN - NEW WORK

FT LAUDERDALE (INTERNATIONAL) FL

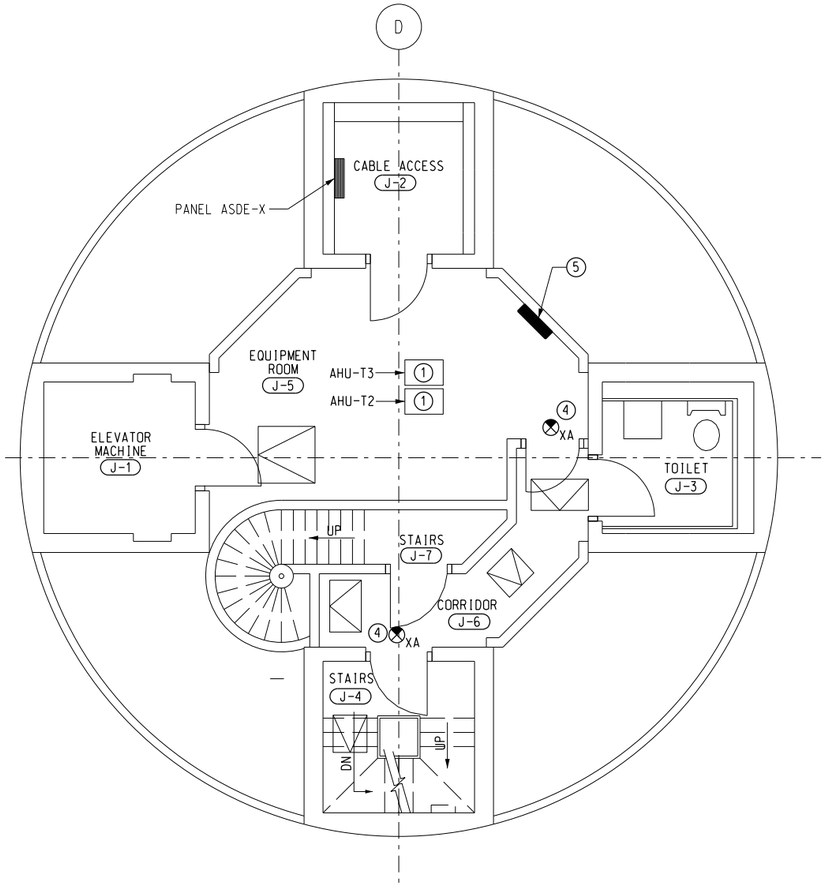
REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JMC | DRAWN CRK | CHECKED MAK | ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER | DATE JAN 31, 2020 | JCN 1508912 | DRAWING NO FLL-D-ATCT-E121 | REV



1 E122 SUBJUNCTION LEVEL 1 PLAN - NEW WORK

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



2 E122 JUNCTION LEVEL PLAN - NEW WORK

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

GENERAL NOTES

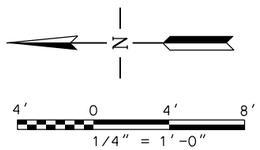
A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN IS LIGHT SOLID LINE.

B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

C. ALL EXTERIOR BOXES, HANGERS, MOUNTING SUPPORTS AND HARDWARE SHALL BE STAINLESS STEEL TYPE MATERIAL.

KEY NOTES

1. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2. NEW MECHANICAL UNIT AHU-T1B. CONTRACTOR SHALL PROVIDE 60A NEMA 1, 208V 2-POLE NON-FUSED DISCONNECT. COORDINATE INSTALLATION WITH OVERHEAD EQUIPMENT TO COMPLY WITH REQUIRED NEC CLEARANCES. PROVIDE NEW 60A, 2-POLE BREAKER IN PANEL NLPTA. PROVIDE NEW CIRCUIT TO PANEL NLPTA WITH 3-#6AWG, #8G IN 1"C.
3. NEW MECHANICAL UNIT HP-T1B. CONTRACTOR SHALL PROVIDE 60A NEMA 4X, 208V 3-POLE FUSED DISCONNECT MOUNTED TO WALL. PROVIDE STAINLESS STEEL MOUNTING HARDWARE AND SUPPORTS. PROVIDE NEW 35A, 3-POLE BREAKER IN PANEL NLPTA. PROVIDE NEW CIRCUIT TO PANEL WITH 4-#10AWG, #10G IN 3/4"C. FOR EXTERIOR, PROVIDE PVC COATED RIGID CONDUIT TO DISCONNECT SWITCH, AND LFMC CONDUIT TO UNIT. INSTALLATION SHALL COMPLY WITH REQUIRED NEC CLEARANCES.
4. PROVIDE NEW LED EXIT SIGN WITH 90-MINUTE BATTERY BACKUP. CONNECT NEW EXIT SIGN TO EXISTING EMERGENCY CIRCUIT.
5. NEW DDC CONTROL PANEL, CONNECT TO EXISTING CIRCUIT. CONTRACTOR SHALL FIELD VERIFY CIRCUIT PRIOR TO INSTALLATION.
6. CONNECT NEW AHU-T1 TO EXISTING CIRCUIT SERVED BY PANEL NLPT. EXTEND WIRE AND CONDUIT AS REQUIRED FOR CONNECTION. CONTRACTOR SHALL PROVIDE 60A NEMA 1, 208, 2-POLE, NON-FUSED DISCONNECT. COORDINATE INSTALLATION WITH OVERHEAD EQUIPMENT TO COMPLY WITH REQUIRED NEC CLEARANCES.
7. CONNECT NEW HP-T1 TO EXISTING CIRCUIT SERVED BY PANEL NLPTA. EXTEND WIRE AND CONDUIT AS REQUIRED. CONTRACTOR SHALL PROVIDE 30A NEMA 4X, 208V 3-POLE FUSED DISCONNECT MOUNTED TO WALL. PROVIDE STAINLESS STEEL MOUNTING HARDWARE AND SUPPORTS.



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED 11/31/2019 No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY

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WW JOB NUMBER: 219075.00

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

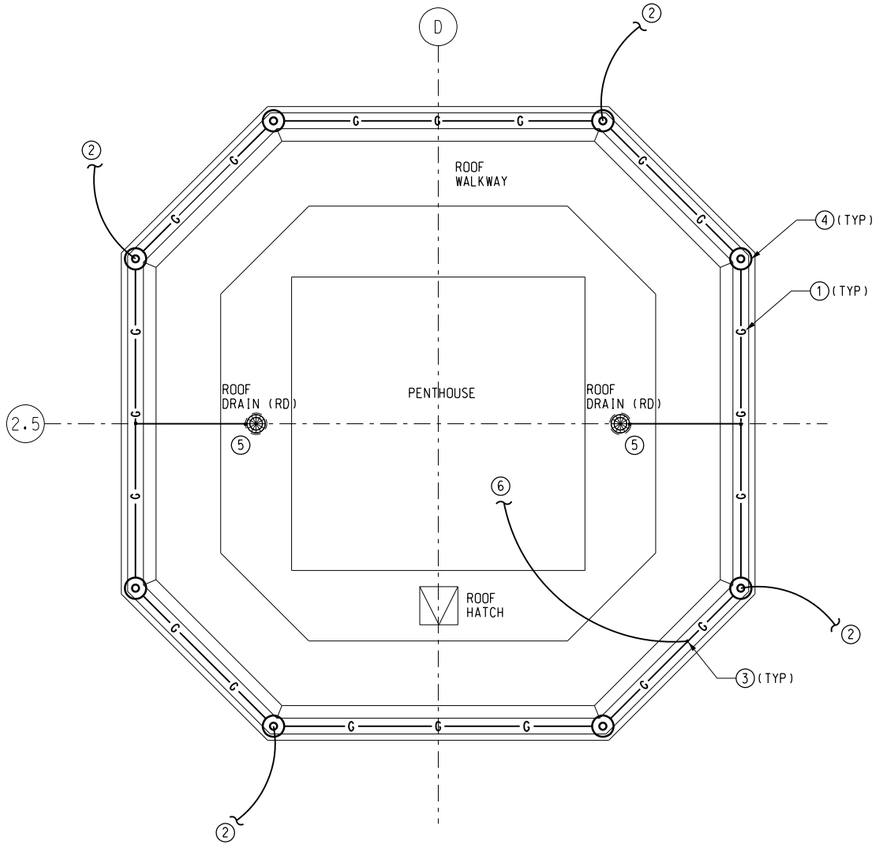
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL - NEW WORK

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED MDS
DRAWN CRK
CHECKED MDS
ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN 31, 2020 JCN 1508912
DRAWING NO FLL-D-ATCT-E122 REV



1 / E160 CAB ROOF PLAN - LIGHTNING PROTECTION

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

GENERAL NOTES

A. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES

B. REMOVE EXISTING LIGHTNING PROTECTION ROOF CONDUCTOR AND ACCESORIES TO FACILITATE ROOF REPLACEMENT. ROOF CONDUCTORS AND BONDS TO BE REPLACED.

C. ALL TOWER (ATCT) LIGHTING PROTECTION ROOF CONDUCTOR SHALL BE CLASS II MATERIAL. CONDUCTORS, AIR TERMINALS AND ALL OTHER ACCESSORIES SHALL BE MADE OF COPPER, EXCEPT WHERE DISSIMILAR METALS REQUIRE ALUMINUM. USE BI-METALLIC CONNECTORS AS NEEDED TO CONNECT COPPER AND ALUMINUM MATERIALS.

D. DOWN CONDUCTOR TERMINATIONS TO THE EES SHALL BE EXOTHERMICALLY WELDED TO A 4/0 AWG COPPER CONDUCTOR PRIOR TO ENTERING THE GROUND AT NOT LESS THAN 18" ABOVE GRADE. THE 4/0 AWG COPPER CONDUCTOR SHALL BE BONDED DIRECTLY TO A GROUND ROD OR ELECTRODE CONDUCTOR IN THE EES (FAA-STD-019F, SECTION 4.3.5.1). DOWN CONDUCTOR CONDUIT SHALL END JUST ABOVE WELDING POINT. PROVIDE AN ACCESSIBLE JUNCTION BOX TO PROTECT WELD.BELOW WELD, BARE CONDUCTOR SHALL RUN INTO THE GROUND TO CONNECT TO COUNTERPOISE.

E. SUPPORT ROOF CONDUCTOR AT A MIN OF EVERY 3' UTILIZING AN ADHESIVE CABLE CLAMP THOMPSON 186X (OR EQUAL).

F. TEST AND CONFIRM THAT EXISTING EES RESISTANCE TO GROUND IS LESS THAN 10 OHMS (FAA-STD-019F, SECTION 4.4.3).

G. COORDINATE LIGHTNING PROTECTION ATTACHMENT POINT WATERPROOFING WITH ROOF INSTALLATION SUCH THAT FLASHING IS NOT DEFEATED.

H. CONSULT WITH A LIGHTNING PROTECTION PROFESSIONAL TO PROVIDE TEMPORARY LIGHTNING PROTECTION PROVISIONS DURING CONSTRUCTION.

KEY NOTES

(1) CLASS II ROOF CONDUCTOR. THOMPSON 506T OR APPROVED EQUAL.

(2) CLASS II DOWN CONDUCTOR. THOMPSON 506T OR APPROVED EQUAL. BOND DOWN CONDUCTOR TO ROOF CONDUCTOR USING MECHANICAL TERMINATIONS PER DETAIL 1, SHEET TRACO-E601. DOWN CONDUCTORS SHALL EXTEND TO GROUND COUNTERPOISE WITHIN PVC CONDUIT. DOWN CONDUCTORS SHALL FOLLOW THE MOST DIRECT DOWNWARD COURSE, WHILE MAIN AND BONDING CONDUCTORS MUST MAINTAIN A DOWNWARD OR HORIZONTAL COURSE WITH NO BEND LESS THAN 90 DEGREES OR BEND RADIUS LESS THAN 8". ROOF AND DOWN CONDUCTORS SHALL BE FASTENED WITH CABLE HOLDER THOMPSON 186X OR APPROVED EQUAL, AT INTERVALS NOT MORE THAN 3'-0" AND SHALL BE THE SAME MATERIAL AS THE CONDUCTOR. BONDING DEVICES, CONDUCTOR SPLICES, CONDUCTOR ATTACHMENTS, AND CONNECTORS SHALL BE SUITABLE FOR USE WITH THE INSTALLED CONDUCTOR. WHERE DOWN CONDUCTOR ENCOUNTER CANOPY, ROUTE DOWN CONDUCTOR THROUGH 1" PVC SLEEVE. BOND CANOPY TO DOWN CONDUCTORS USING EXOTHERMIC WELD. BOND ALL METALLIC OBJECTS WITHIN 6' OF DOWN CONDUCTORS TO DOWN OR ROOF GROUNDING LOOP TO THE LIGHTINING PROTECTION SYSTEM WITH EXOTHERMIC WELD.

(3) BONDING CONNECTION. SEE BONDING AND SPLICING DETAIL 1, SHEET TRACO-E601.

(4) 24" BLUNT-TIPPED AIR TERMINAL. TERMINAL SHALL BE MOUNTED TO PARAPET WALL PER DETAIL 2, SHEET TRACO-E601.

(5) BOND ROOF CONDUCTOR TO ALL ROOF DRAINS PER DETAIL 1, SHEET TRACO-E600.

(6) BONDING JUMPER TO EXISTING ANTENNA EQUIPMENT ON PENTHOUSE. UTIILIZE CONDUIT GROUND CLAMP PER DETAIL 5, SHEET TRACO-E600.

N

4' 0 4' 8'

1/4" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 11/31/2019

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
CAB LEVEL ROOF PLAN - LIGHTNING PROTECTION

FT LAUDERDALE (INTERNATIONAL) FL

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678.320.1888
wileywilson.com

WW JOB NUMBER: 219075.00

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER
DESIGNED JMC	ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER	DATE JAN 31, 2020 JCN 1508912
DRAWN CRK		DRAWING NO FLL-D-ATCT-E160 REV
CHECKED MAK		

PANEL SCHEDULE (EXISTING)

DESIGNATION: **NLPT**
FED FROM: **MDPN**
LOCATION: **CABLE ACCESS SJ1-2**

PANEL CHARACTERISTICS
MAIN: **225** A MCB **3** PHASE
BUS AMPERAGE: **225** AMPS **4** WIRE + GROUND
VOLTAGE: **120/208** VOLTS **100%** NEUTRAL
AIC: **EXIST.** MOUNTING: **SURFACE**

Branch Circuit Load Description	kVA Loads A	kVA Loads B	kVA Loads C	Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads A	kVA Loads B	kVA Loads C	Branch Circuit Load Description
ELECTRIC HEAT				15/3	1	A	2					SPACE
					3	B	4	20/1				ASDE DDS
					5	C	6	20/1				CHEMICAL FEED
RWSL				20/2	7	A	8	20/2				SPARE
					9	B	10					
EF-1				20/1	11	C	12	20/1				SPARE
RWSL TCCA				15/1	13	A	14	100/3				SPACE
CENTRAL VAC CV-1				20/1	15	B	16					
EWH				20/1	17	C	18					
WASH DOWN PUMP				30/1	19	A	20	100/3				ELEVATOR MAIN TRANS
ASOS A.C.V				20/1	21	B	22					
CABLE LIGHT				20/1	23	C	24					
AHU-T1	5.38			60/2	25	A	26	20/1				9TH FLR STAIRS & RECEPT
		5.38			27	B	28	20/1				9TH FLR STAIRS & RECEPT
CABLE CHASE LIGHT				20/1	29	C	30	20/1				CABLE CHASE RECEPT
CABLE CHASE LIGHT				20/1	31	A	32	20/1				CABLE CHASE RECEPT
BASE LEVEL LIGHT				20/1	33	B	34	20/1				CABLE CHASE RECEPT
SUMP PUMP				20/1	35	C	36					SPACE
TOWER RECPT				20/1	37	A	38	30/3				SPD
TOWER RECPT				20/1	39	B	40					
CABLE LIGHT				20/1	41	C	42					
	5.38	5.38		<<PHASE SUB-TOTALS>>								

PHASE TOTALS:	Phase A	Phase B	Phase C	
	5.38	5.38		kVA

LOAD SUMMARY (KVA)

LOAD TYPE		CONNECTED	DEMAND
Lighting			
Receptacles			
UPS	Receptacles		
	Racks		
Equipment: Continuous			
Equipment: Non-Continuous			
Kitchen			
Mechanical: Concurrent		10.76	8.61
Mech: Non-Concurrent			
Supplimental AC			
TOTALS (kVA)		**10.76**	**8.61**

10.76 kVA - TOTAL CONNECTED LOAD
8.61 kVA - TOTAL DEMAND LOAD
23.89 AMPS - DEMAND

PROVIDE THE FOLLOWING:

PANEL SCHEDULE (EXISTING)

DESIGNATION: **ELPT**
FED FROM: **MDPE**
LOCATION: **CABLE ACCESS SJ1-2**

PANEL CHARACTERISTICS
MAIN: **225** A MCB **3** PHASE
BUS AMPERAGE: **225** AMPS **4** WIRE + GROUND
VOLTAGE: **120/208** VOLTS **100%** NEUTRAL
AIC: **EXIST.** MOUNTING: **SURFACE**

Branch Circuit Load Description	kVA Loads A	kVA Loads B	kVA Loads C	Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads A	kVA Loads B	kVA Loads C	Branch Circuit Load Description
(1) **AHU-T4B**	5.38			60/2	1	A	2	35/3				AHU-T3
		5.38			3	B	4					
SPACE					5	C	6					
HP-T2				70/3	7	A	8	70/3				HP-T3
					9	B	10					
					11	C	12					
AHU-T2				35/3	13	A	14	20/1				RCPT SUP CONSL
					15	B	16					SPACE
					17	C	18	20/1				EXHAUST FAN EF-4
NORTH DISPLAY				20/1	19	A	20	20/1				HEATER AHU-3
SOUTH BRITE				20/1	21	B	22	20/1				HEATER AHU-3
BCAD CCTV				20/1	23	C	24	20/1				9TH FLR A/COND
CYPHERLOCK SYSTEM				20/1	25	A	26	20/1				10TH FLR A/COND
FLOOR OUTLETS				20/1	27	B	28	20/1				ELEVATOR MECH RM RCPT
OBSTRUCTION LIGHT				20/1	29	C	30	20/1				ELEVATOR LIGHTS
CAB LIGHTS				20/1	31	A	32	20/1				CABLE ACCESS LIGHT
CAB LIGHTS				20/1	33	B	34	20/1				STAIR LIGHTS
CAB LIGHTS				20/1	35	C	36	20/1				CAB A/C PANEL
TRAFFIC GUN LIGHT NORTH				20/1	37	A	38	20/1				9TH FLR LIGHTS
TRAFFIC GUN LIGHT SOUTH				20/1	39	B	40	20/1				ELEVATOR MECH RM RCPT
ELEVATOR SHAFT LIGHTS				20/1	41	C	42	20/1				FIRE DAMPER
	5.38	5.38		<<PHASE SUB-TOTALS>>								

PHASE TOTALS:	Phase A	Phase B	Phase C	
	5.38	5.38		kVA

LOAD SUMMARY (KVA)

LOAD TYPE		CONNECTED	DEMAND
Lighting			
Receptacles			
UPS	Receptacles		
	Racks		
Equipment: Continuous			
Equipment: Non-Continuous			
Kitchen			
Mechanical: Concurrent		10.76	8.61
Mech: Non-Concurrent			
Supplimental AC			
TOTALS (kVA)		**10.76**	**8.61**

10.76 kVA - TOTAL CONNECTED LOAD
8.61 kVA - TOTAL DEMAND LOAD
23.89 AMPS - DEMAND

PROVIDE THE FOLLOWING:

GENERAL NOTES:

A. CIRCUIT ASSIGNMENTS TO NEW AND EXISTING LOADS ARE USED FOR REFERENCE ONLY. ACTUAL CIRCUIT ASSIGNMENT OF EXISTING LOADS AND AVAILABILITY OF ACTUAL SPARE CIRCUIT BREAKERS AND SPACES AVAILABLE IN EXISTING PANELS SHALL BE FIELD VERIFIED PRIOR TO THE BEGINNING OF NEW CONSTRUCTION.

B. VERIFY ALL CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT ON DRAWINGS. FOR ANY VACATED CIRCUITS, REMOVE CONDUIT AND WIRING BACK TO PANEL, TURN BREAKER OFF, AND MARK BREAKER AS 'SPARE'.

C. PROVIDE NEW TYPEWRITTEN PANELBOARD DIRECTORY TO INDICATE ACTUAL CIRCUITS USED, UPON COMPLETION OF WORK.

D. CONTRACTOR SHALL REUSE EXISTING SPARE CIRCUIT BREAKERS OR EXISTING BREAKERS THAT HAVE BECOME AVAILABLE FOLLOWING DEMOLITION. PROVIDE NEW BREAKERS AS REQUIRED WITH TYPE, VOLTAGE RATING, AND AIC RATING MATCHING THE EXISTING BREAKER.

KEY NOTES:

(1) REPLACE EXISTING 100A 3-POLE SPARE BREAKER WITH NEW 60A 2-POLE BREAKER. TO BE REPURPOSED FOR AHU-T4B.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 11/31/2019

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WW JOB NUMBER: 219075.00

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
PANEL SCHEDULES

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JMC | DRAWN JMC | CHECKED MRK
ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN 31, 2020 | JCN 1508912
DRAWING NO FLL-D-ATCT-E500 | REV

PANEL SCHEDULE (EXISTING)

DESIGNATION: **NLPTA**
FED FROM: **MDPN**
LOCATION: **CABLE ACCESS SJ2-2**

PANEL CHARACTERISTICS
MAIN: **225** A MCB **3** PHASE
BUS AMPERAGE: **225** AMPS **4** WIRE + GROUND
VOLTAGE: **120/208** VOLTS **100%** NEUTRAL
AIC: **EXIST.** MOUNTING: **SURFACE**

	Branch Circuit Load Description	kVA Loads A	kVA Loads B	kVA Loads C	Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads A	kVA Loads B	kVA Loads C	Branch Circuit Load Description
	HP-T1				30/3	1	A	2	30/3				HP-T4
						3	B	4					
						5	C	6					
	A/H				30/2	7	A	8	20/2				ASDE
						9	B	10					
	SPARE				20/1	11	C	12	20/1				RECEPACLE
	ASDE-X				20/1	13	A	14	60/2	5.38			**AHU-T4**
	ASDE-X				20/1	15	B	16			5.38		
	ASDE-X				20/1	17	C	18	20/1				SPARE
	ASDE-X				20/1	19	A	20	20/1				SPARE
	SPARE				20/1	21	B	22	20/1				SPARE
	SPARE				20/1	23	C	24	20/1				SPARE
	SPARE				20/1	25	A	26	20/1				SPARE
	SPARE				20/1	27	B	28	20/1				SPARE
(1)	**HP-T4B**			2.55	35/3	29	C	30	35/3			2.55	**HP-T1B** ◄ (1)
		2.55				31	A	32		2.55			
			2.55			33	B	34			2.55		
(1)	**AHU-T1B**			5.38	60/2	35	C	36					SPACE
		5.38				37	A	38					SPACE
	SPACE					39	B	40					SPACE
	SPACE					41	C	42					SPACE
		7.93	2.55	7.93	<< PHASE SUB-TOTALS >>					7.93	7.93	2.55	

PHASE TOTALS:	Phase A	Phase B	Phase C	
	15.85	10.47	10.47	kVA

LOAD SUMMARY (KVA)

LOAD TYPE		CONNECTED	DEMAND
Lighting			
Receptacles			
UPS	Receptacles		
	Racks		
Equipment: Continuous			
Equipment: Non-Continuous			
Kitchen			
Mechanical: Concurrent		36.80	29.44
Mech: Non-Concurrent			
Supplimental AC			
TOTALS (kVA)		**36.80**	**29.44**

36.80 kVA - TOTAL CONNECTED LOAD
29.44 kVA - TOTAL DEMAND LOAD
81.71 AMPS - DEMAND

PROVIDE THE FOLLOWING:

PANEL SCHEDULE (EXISTING)

DESIGNATION: **ASDE-X**
FED FROM: **CRITICAL MAIN**
LOCATION: **CABLE ACCESS J-2**

PANEL CHARACTERISTICS
MAIN: **100** A MCB **3** PHASE
BUS AMPERAGE: **100** AMPS **4** WIRE + GROUND
VOLTAGE: **120/208** VOLTS **100%** NEUTRAL
AIC: **EXIST.** MOUNTING: **SURFACE**

Branch Circuit Load Description	kVA Loads A	kVA Loads B	kVA Loads C	Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads A	kVA Loads B	kVA Loads C	Branch Circuit Load Description
RT #1				15/1	1	A	2	15/1				COMPRESSOR/DEHYDRATOR
SMR XCVR #1				30/1	3	B	4	30/1				SMR XCVR #2
RDP #1				30/1	5	C	6	30/1				RDP #2
DP #1				30/1	7	A	8	30/1				DP #2
PC #1				30/1	9	B	10	30/1				PC #2
COMM#1				30/1	11	C	12	30/1				COMM#2
RMS #1				30/1	13	A	14	30/1				RMS #2
RMS WORKSTATION				20/1	15	B	16	20/1				SPARE
SPARE				20/1	17	C	18	20/1				SPARE
CU-4				30/3	19	A	20	50/3				TVSS
					21	B	22					
					23	C	24					
					25	A	26					
					27	B	28					
					29	C	30					
					31	A	32					
					33	B	34					
					35	C	36					
					37	A	38					
					39	B	40					
					41	C	42					
				<< PHASE SUB-TOTALS >>								

PHASE TOTALS:	Phase A	Phase B	Phase C	
				kVA

LOAD SUMMARY (KVA)

LOAD TYPE		CONNECTED	DEMAND
Lighting			
Receptacles			
UPS	Receptacles		
	Racks		
Equipment: Continuous			
Equipment: Non-Continuous			
Kitchen			
Mechanical: Concurrent			
Mech: Non-Concurrent			
Supplimental AC			
TOTALS (kVA)			

kVA - TOTAL CONNECTED LOAD
kVA - TOTAL DEMAND LOAD
AMPS - DEMAND

PROVIDE THE FOLLOWING:

GENERAL NOTES:

A. CIRCUIT ASSIGNMENTS TO NEW AND EXISTING LOADS ARE USED FOR REFERENCE ONLY. ACTUAL CIRCUIT ASSIGNMENT OF EXISTING LOADS AND AVAILABILITY OF ACTUAL SPARE CIRCUIT BREAKERS AND SPACES AVAILABLE IN EXISTING PANELS SHALL BE FIELD VERIFIED PRIOR TO THE BEGINNING OF NEW CONSTRUCTION.

B. VERIFY ALL CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT ON DRAWINGS. FOR ANY VACATED CIRCUITS, REMOVE CONDUIT AND WIRING BACK TO PANEL, TURN BREAKER OFF, AND MARK BREAKER AS 'SPARE'.

C. PROVIDE NEW TYPEWRITTEN PANELBOARD DIRECTORY TO INDICATE ACTUAL CIRCUITS USED, UPON COMPLETION OF WORK.

D. CONTRACTOR SHALL REUSE EXISTING SPARE CIRCUIT BREAKERS OR EXISTING BREAKERS THAT HAVE BECOME AVAILABLE FOLLOWING DEMOLITION. PROVIDE NEW BREAKERS AS REQUIRED WITH TYPE, VOLTAGE RATING, AND AIC RATING MATCHING THE EXISTING BREAKER.

KEY NOTES:

(1) INSTALL NEW BREAKER INDICATED IN EXISTING SPACE AVAILABLE.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. 044833 PROFESSIONAL ENGINEER BRIONA R. PERRY 11/31/2020

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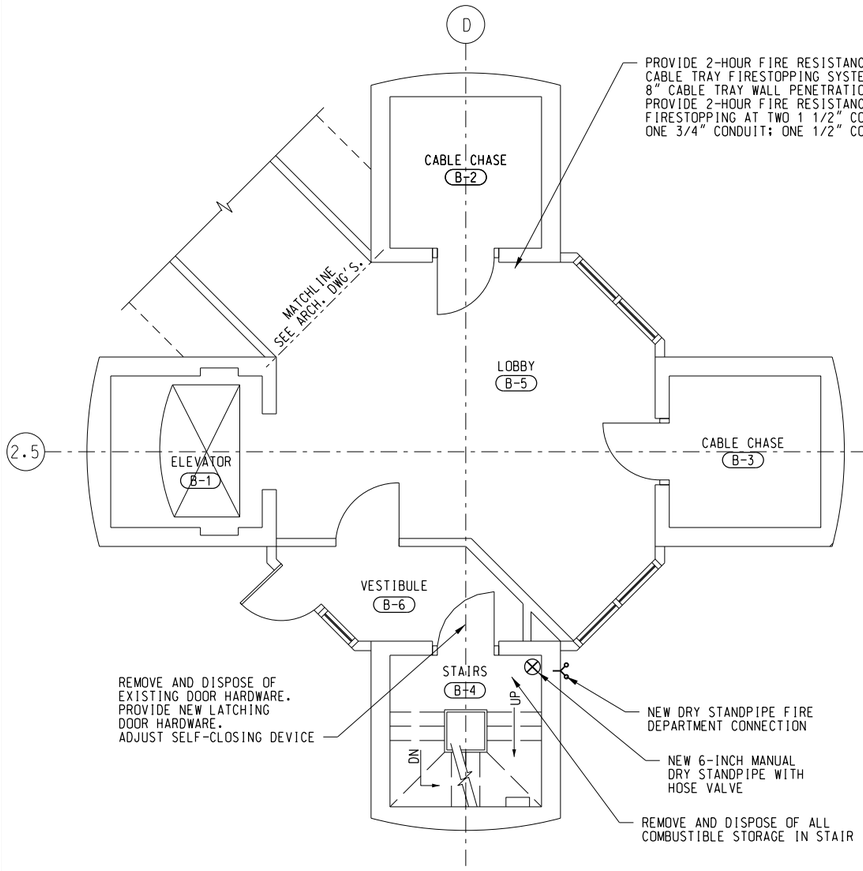
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
PANEL SCHEDULES

FT LAUDERDALE (INTERNATIONAL) FL

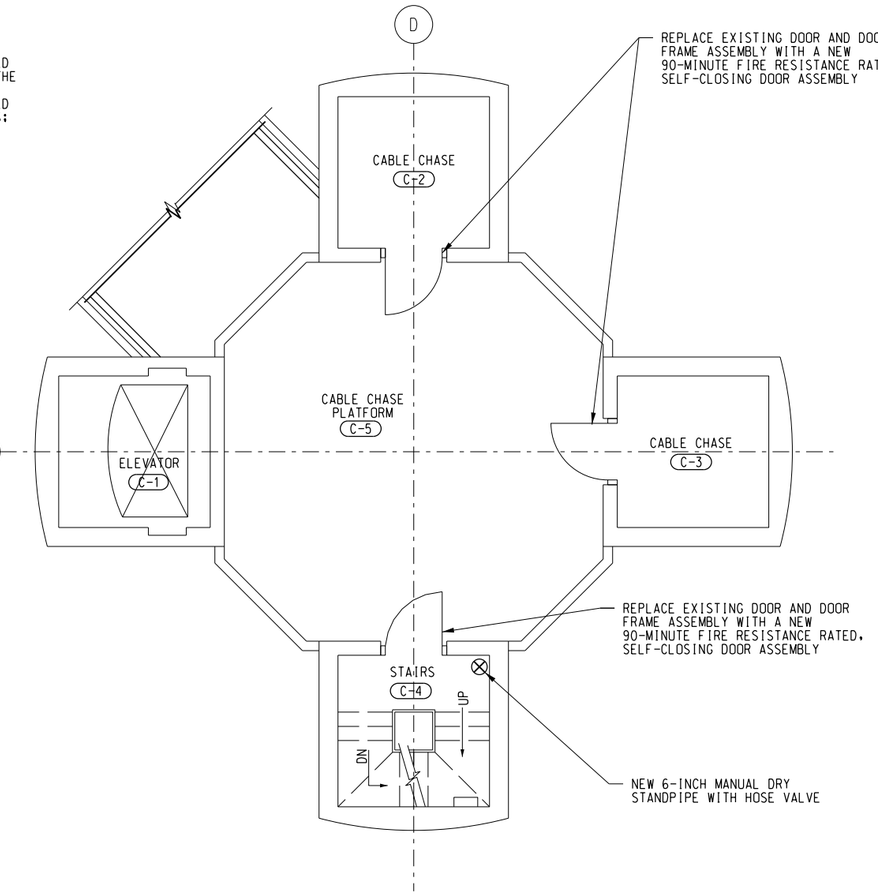
REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JMC | DRAWN JMC | CHECKED MRK | ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER | DATE JAN 31, 2020 | JCN 1508912 | DRAWING NO FLL-D-ATCT-E501 | REV



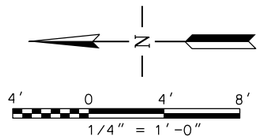
1 / F101 GROUND LEVEL PLAN

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



2 / F101 CABLE ACCESS LEVEL 1 - SECOND FLOOR

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



NOTES

1. ALL INTERIOR WALLS, CEILINGS, FLOORS, DOORS AND OTHER FINISHED CONSTRUCTION THAT ARE DAMAGED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ORIGINAL CONDITION.
2. PRIOR TO ANY FIRESTOPPING MATERIALS OR ASSEMBLY BEING INSTALLED, THE CONTRACTOR SHALL HAVE SUBMITTED TO THE FAA RESIDENT ENGINEER MSDS OF ALL MATERIALS INTENDED FOR USE. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT THE WRITTEN PERMISSION OF THE RESIDENT ENGINEER. REFER TO SPECIFICATION SECTION 07840 FOR APPROVED FIRESTOPPING MATERIALS AND METHODS.
3. PROVIDE UL-LISTED ASSEMBLIES OR ENGINEERED SYSTEMS FOR ALL FIRE BARRIER AND FIRESTOPPING APPLICATIONS AT ALL REQUIRED LOCATIONS. FIRESTOPPING IS ALSO REQUIRED FOR ALL PENETRATIONS MADE BY THE CONTRACTOR FOR ALL DEMO AND NEW WORK. UL CLASSIFICATION PRODUCT DATA SHEET OR MANUFACTURER'S ENGINEERED SYSTEM SHALL BE SUBMITTED AND APPROVED BEFORE ANY FIRESTOPPING IS INSTALLED.
4. PROVIDE A NEW MANUAL, DRY STANDPIPE SYSTEM IN THE TOWER STAIR AS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH NFPA 14.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. PE030062 PROFESSIONAL ENGINEER JEREMY W. JOHN 1/31/20

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS
TOWER - GROUND LEVEL AND CABLE ACCESS LEVEL 1 PLANS

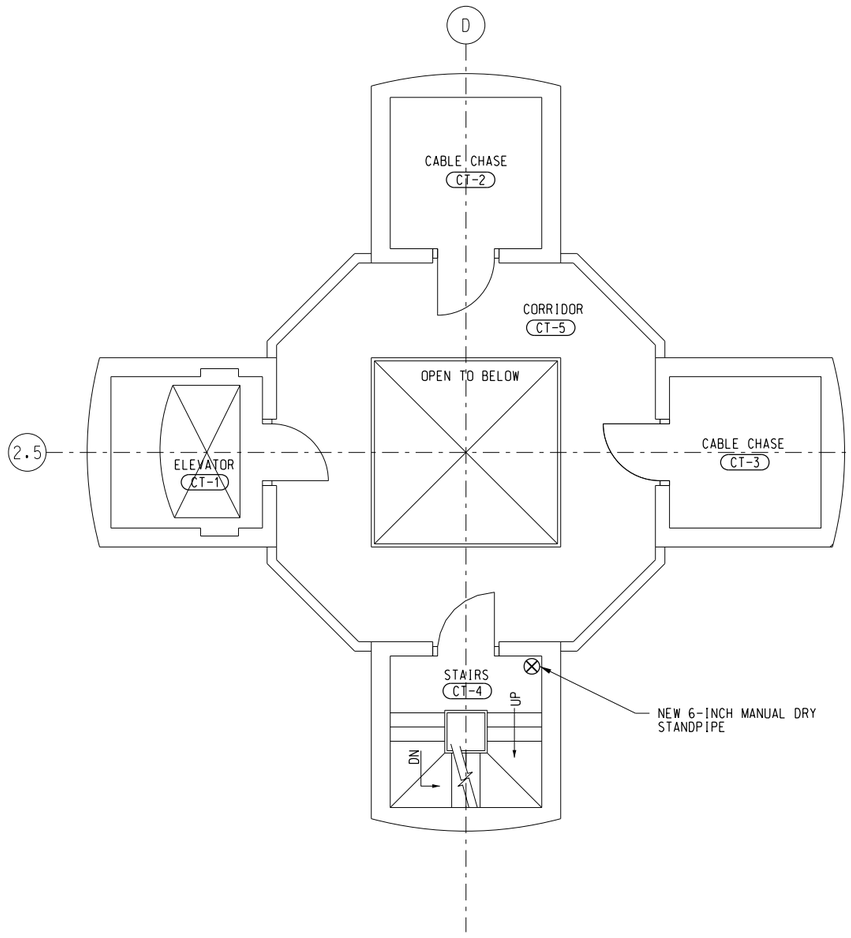
FT LAUDERDALE (INTERNATIONAL) FL

Wiley|Wilson
5901 Peachtree Dunwoody Rd.
Bldg. C, Ste 515
Atlanta, Georgia 30328-6055
678.320.1888
wileywilson.com

WW JOB NUMBER: 219075.00

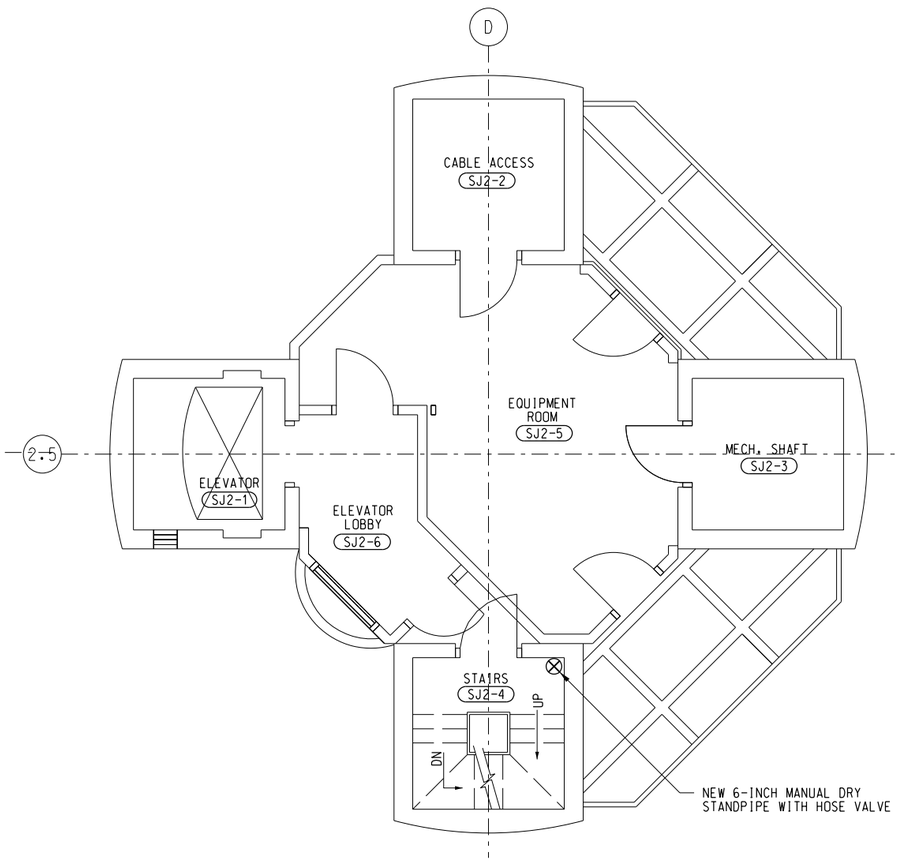
REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED	JWJ	ISSUED BY	DATE	JCN
DRAWN	HJM	ATLANTA TERMINAL ENGINEERING CENTER	JAN. 31, 2019	1508912
CHECKED	JWJ		DRAWING NO	REV
			FLL-D-ATCT-F101	



1 F102 CABLE ACCESS PLAN - TYPICAL

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

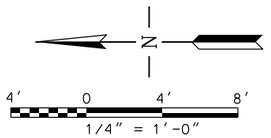


2 F102 SUBJUNCTION LEVEL 2 PLAN

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

NOTES

1. ALL INTERIOR WALLS, CEILINGS, FLOORS, DOORS AND OTHER FINISHED CONSTRUCTION THAT ARE DAMAGED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ORIGINAL CONDITION.
2. PRIOR TO ANY FIRESTOPPING MATERIALS OR ASSEMBLY BEING INSTALLED, THE CONTRACTOR SHALL HAVE SUBMITTED TO THE FAA RESIDENT ENGINEER MSDS OF ALL MATERIALS INTENDED FOR USE. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT THE WRITTEN PERMISSION OF THE RESIDENT ENGINEER. REFER TO SPECIFICATION SECTION 07840 FOR APPROVED FIRESTOPPING MATERIALS AND METHODS.
3. PROVIDE UL-LISTED ASSEMBLIES OR ENGINEERED SYSTEMS FOR ALL FIRE BARRIER AND FIRESTOPPING APPLICATIONS AT ALL REQUIRED LOCATIONS. FIRESTOPPING IS ALSO REQUIRED FOR ALL PENETRATIONS MADE BY THE CONTRACTOR FOR ALL DEMO AND NEW WORK. UL CLASSIFICATION PRODUCT DATA SHEET OR MANUFACTURER'S ENGINEERED SYSTEM SHALL BE SUBMITTED AND APPROVED BEFORE ANY FIRESTOPPING IS INSTALLED.
4. PROVIDE A NEW MANUAL, DRY STANDPIPE SYSTEM IN THE TOWER STAIR AS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH NFPA 14.



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

GEORGIA REGISTERED No. PE030062 PROFESSIONAL ENGINEER JEREMY W. JOHN 1/31/20

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS
TOWER - CABLE ACCESS (TYPICAL) AND SUBJUNCTION LEVEL 2 PLANS

FT LAUDERDALE (INTERNATIONAL) FL

Wiley|Wilson
5901 Peachtree Dunwoody Rd.
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wileywilson.com

WW JOB NUMBER: 219075.00

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JWJ | DRAWN HJM | CHECKED JWJ | ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER | DATE JAN. 31, 2019 | JCN 1508912

DRAWING NO FLL-D-ATCT-F102 REV

NOTES

1. ALL INTERIOR WALLS, CEILINGS, FLOORS, DOORS AND OTHER FINISHED CONSTRUCTION THAT ARE DAMAGED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ORIGINAL CONDITION.
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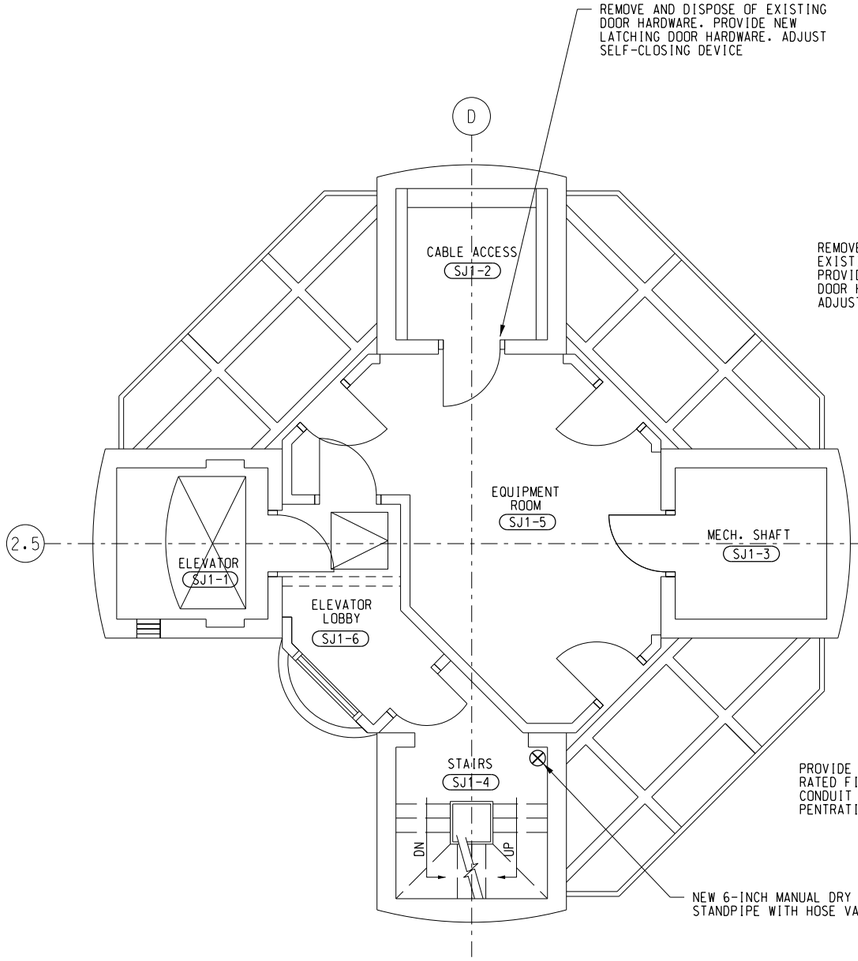
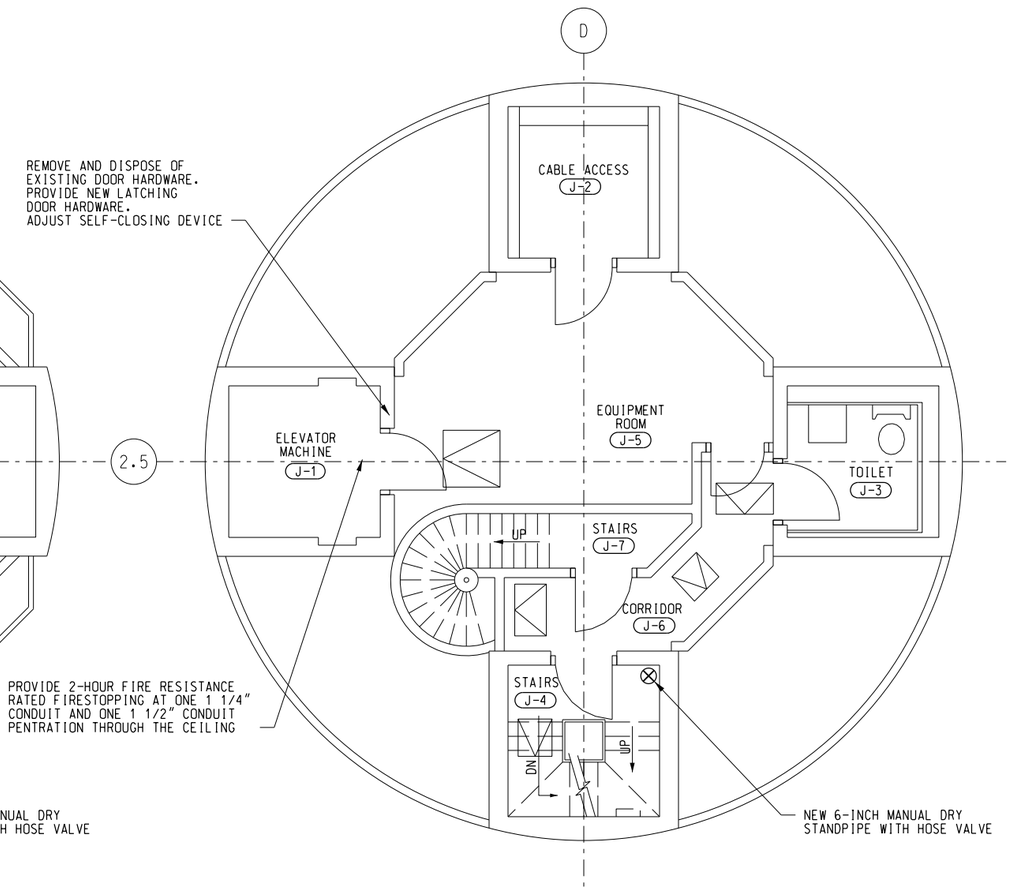


1 / F103 SUBJUNCTION LEVEL 1
SCALE: 1/4" = 1'-0"



2 / F103 JUNCTION LEVEL
SCALE: 1/4" = 1'-0"

4' 0 4' 8'
1/4" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

PAGE OF

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GEORGIA REGISTERED No. PE030062 PROFESSIONAL ENGINEER 1/31/19 JEREMY W. JOHN

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678.320.1888
wileywilson.com

WW JOB NUMBER: 219075.00

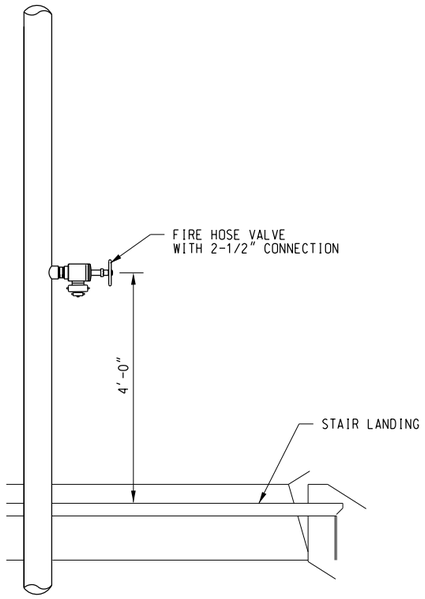
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS
TOWER - SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL PLANS

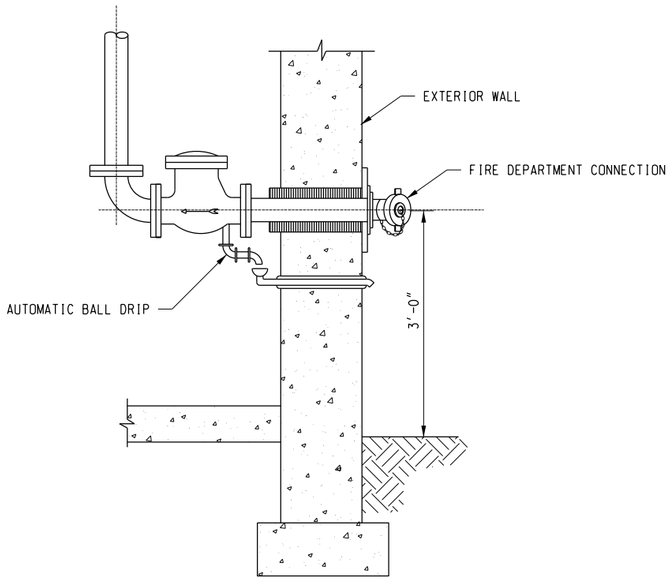
FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JWJ
DRAWN HJM
CHECKED JWJ
ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
DATE JAN 31, 2019 JCN 1508912
DRAWING NO FLL-D-ATCT-F103 REV



1 F501 HOSE VALVE ASSEMBLY
SCALE: NONE



2 F501 FIRE DEPARTMENT CONNECTION
SCALE: NONE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS DETAILS

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER

DESIGNED JWJ
DRAWN HJM
CHECKED JWJ

ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER

DATE JAN 31, 2019 JCN 1508912

DRAWING NO FLL-D-ATCT-F501 REV