



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



JANUARY 31, 2020

ISSUE FOR CONSTRUCTION
08/05/2020

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

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

Robert A. Bass
LICENSE
No. 44228
1/31/2020
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Wiley|Wilson
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Atlanta, Georgia 30328-6055
678.320.1888
wileywilson.com

WW JOB NUMBER: 219075.00

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
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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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FILES
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STAGES

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ATCT

GENERAL

FLL-D-ATCT-G000

COVER SHEET

DEMOLITION

FLL-D-ATCT-D100
FLL-D-ATCT-D101
FLL-D-ATCT-D102
FLL-D-ATCT-D103
FLL-D-ATCT-D300
FLL-D-ATCT-D301
FLL-D-ATCT-D400
FLL-D-ATCT-D500
FLL-D-ATCT-D501

ARCHITECTURAL - GROUND LEVEL AND SECOND LEVEL DEMOLITION
ARCHITECTURAL - CABLE ACCESS PLAN AND SUBJUNCTION LEVEL 2 DEMOLITION
ARCHITECTURAL - SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL DEMOLITION
ARCHITECTURAL - CAB FLOOR AND ROOF PLANS DEMOLITION
MECHANICAL - GROUND LEVEL AND SUBJUNCTION LEVEL 2 DEMOLITION
MECHANICAL - SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL DEMOLITION
PLUMBING - GROUND LEVEL PLAN - DEMOLITION
ELECTRICAL - GROUND LEVEL AND SUBJUNCTION LEVEL 2 DEMOLITION
ELECTRICAL - SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL DEMOLITION

ARCHITECTURAL

FLL-D-ATCT-A000
FLL-D-ATCT-A100
FLL-D-ATCT-A101
FLL-D-ATCT-A102
FLL-D-ATCT-A103
FLL-D-ATCT-A121
FLL-D-ATCT-A500
FLL-D-ATCT-A505
FLL-D-ATCT-A610
FLL-D-ATCT-A611

LEGEND, SYMBOLS AND GENERAL NOTES
GROUND LEVEL AND SECOND LEVEL PLAN
CABLE ACCESS PLAN AND SUBJUNCTION LEVEL 2
SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL
CAB LEVEL FLOOR AND ROOF PLANS
CABLE ACCESS 7TH LEVEL - RCP
FINISH SCHEDULE AND COLOR SELECTIONS
DOOR TYPES, SCHEDULE AND DETAILS
CATWALK AND CAB ROOF DETAILS
CATWALK HATCH AND CAB DETAILS

MECHANICAL

FLL-D-ATCT-M100
FLL-D-ATCT-M101
FLL-D-ATCT-M500
FLL-D-ATCT-M800
FLL-D-ATCT-M801
FLL-D-ATCT-M802

GROUND LEVEL AND SUBJUNCTION LEVEL 2 - HVAC
SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL - HVAC
HVAC SCHEDULES
CONTROL SYSTEM DIAGRAM FOR AHUS-T1/T1B, T4/T4B
SEQUENCE OF OPERATION AND SYSTEM POINT SYSTEM
CONTROL SYSTEM DIAGRAM FOR FCU-T2 AND FCU-T3

PLUMBING

FLL-D-ATCT-P400

GROUND LEVEL PLAN - NEW WORK

ELECTRICAL

FLL-D-ATCT-E120
FLL-D-ATCT-E121
FLL-D-ATCT-E122
FLL-D-ATCT-E160
FLL-D-ATCT-E500
FLL-D-ATCT-E501

GROUND LEVEL POWER PLAN - NEW WORK
SUBJUNCTION LEVEL 2 POWER PLAN - NEW WORK
SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL - NEW WORK
CAB LEVEL ROOF PLAN - LIGHTNING PROTECTION
PANEL SCHEDULES
PANEL SCHEDULES

FIRE PROTECTION

FLL-D-ATCT-F101
FLL-D-ATCT-F102
FLL-D-ATCT-F103
FLL-D-ATCT-F501

GROUND LEVEL AND CABLE ACCESS LEVEL 1 PLANS
CABLE ACCESS (TYPICAL) AND SUBJUNCTION LEVEL 2 PLANS
SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL PLANS
DETAILS

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ATCT - DRAWING INDEX

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DRAWING NO FLL-D-TOWB-G002

FILES
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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
AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASME AMPERE TRIP
AT 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
BBWHH 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

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 CONTROL
CTL CONDENSING UNIT, COPPER
CU 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
CWX 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
EDN ELECTRIC DUCT HEATER
EES EARTH ELECTRODE SYSTEM
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
EO 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
CWB 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
MPC 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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STATE OF GEORGIA
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REGISTERED ARCHITECT
09/24/2020

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FEDERAL AVIATION ADMINISTRATION

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FILES
DRAWINGS

H
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F
E
D
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A

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.D. 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
 WSR 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 UNINTERRUPTIBLE 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
 WITH 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

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



DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION

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

FT LAUDERDALE (INTERNATIONAL) FL

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DESIGNED: [] GMR ISSUED BY: [] DATE: JAN 31, 2020 JCN: 1508912

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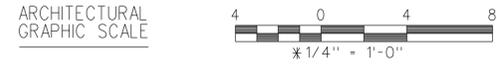
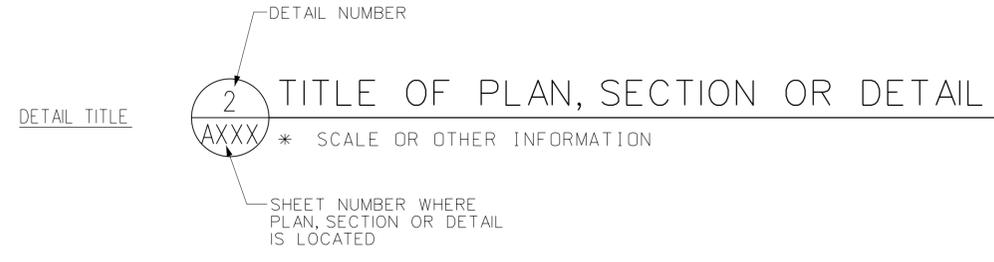
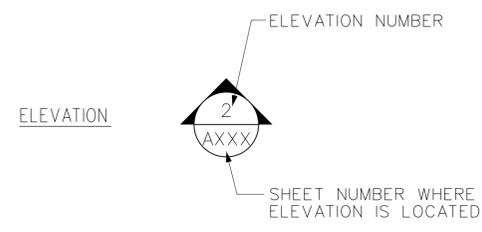
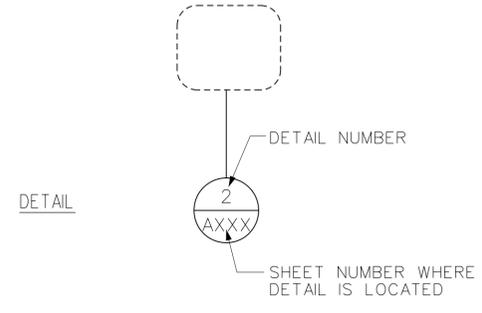
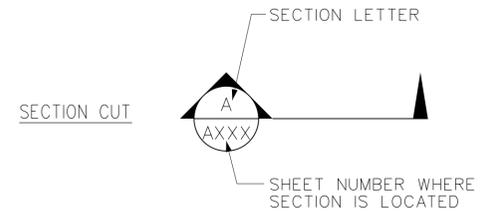
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FLL-D-TOWB-G011

FILES
DRAWINGS
STIMES

GENERAL SYMBOL LEGEND:



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
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		FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS GENERAL SYMBOL LEGEND	
FT LAUDERDALE (INTERNATIONAL) FL		REVIEWED BY	APPROVED BY
SUBMITTED BY		SUBMITTER'S TITLE - CIVIL ENGINEER DESIGNED CRK DRAWN CRK CHECKED RAB	APPROVER'S TITLE - MANAGER DATE JAN 31, 2020 JCN 1508912 DRAWING NO
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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 FIRE 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 BEGINNING 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.

H. TEMPORARY FACILITIES

1. REFER TO SPECIFICATIONS, SECTION 01 50 00 FOR TEMPORARY FACILITIES.
2. PROVIDE TEMPORARY RESTROOM TRAILERS FOR FAA PERSONNEL, WOMEN UNIT TO INCLUDE 2 STALLS AND 2 SINKS, MEN UNIT TO INCLUDE 2 STALLS, 2 URINALS AND 2 SINKS. BOTH UNITS TO BE CONDITIONED.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
					
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		
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DRAWN	CRK	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	
CHECKED	RAB		DRAWING NO	FLL-D-TOWB-G040	
WW JOB NUMBER: 219075.00					

FILES
REVISED
STAGES

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	NO 
	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
- 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.
 -  IT IS THE INTENT OF THIS DRAWING TO REMOVE THE ASBESTOS CONTAINING MATERIAL THAT ARE BEING DISTURBED BY THIS PROJECT. REFER TO APPROPRIATE SECTIONS OF FAA STANDARD SPECIFICATIONS.
 - PAINTED AREAS SUCH AS THE STAIR HANDRAILS ARE ASSUMED TO CONTAIN LEAD-BASED PAINT. REFER TO FAA STANDARD SPECIFICATIONS.
 - 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.

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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)

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.					PAGE	OF
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS GENERAL COVER SHEET						
			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		SUBMITTED BY SUBMITTER'S TITLE - CIVIL ENGINEER ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER	APPROVED BY APPROVER'S TITLE - MANAGER DATE JAN 31, 2020 JCN 1508912	DRAWING NO FLL-D-TRACO-G000		
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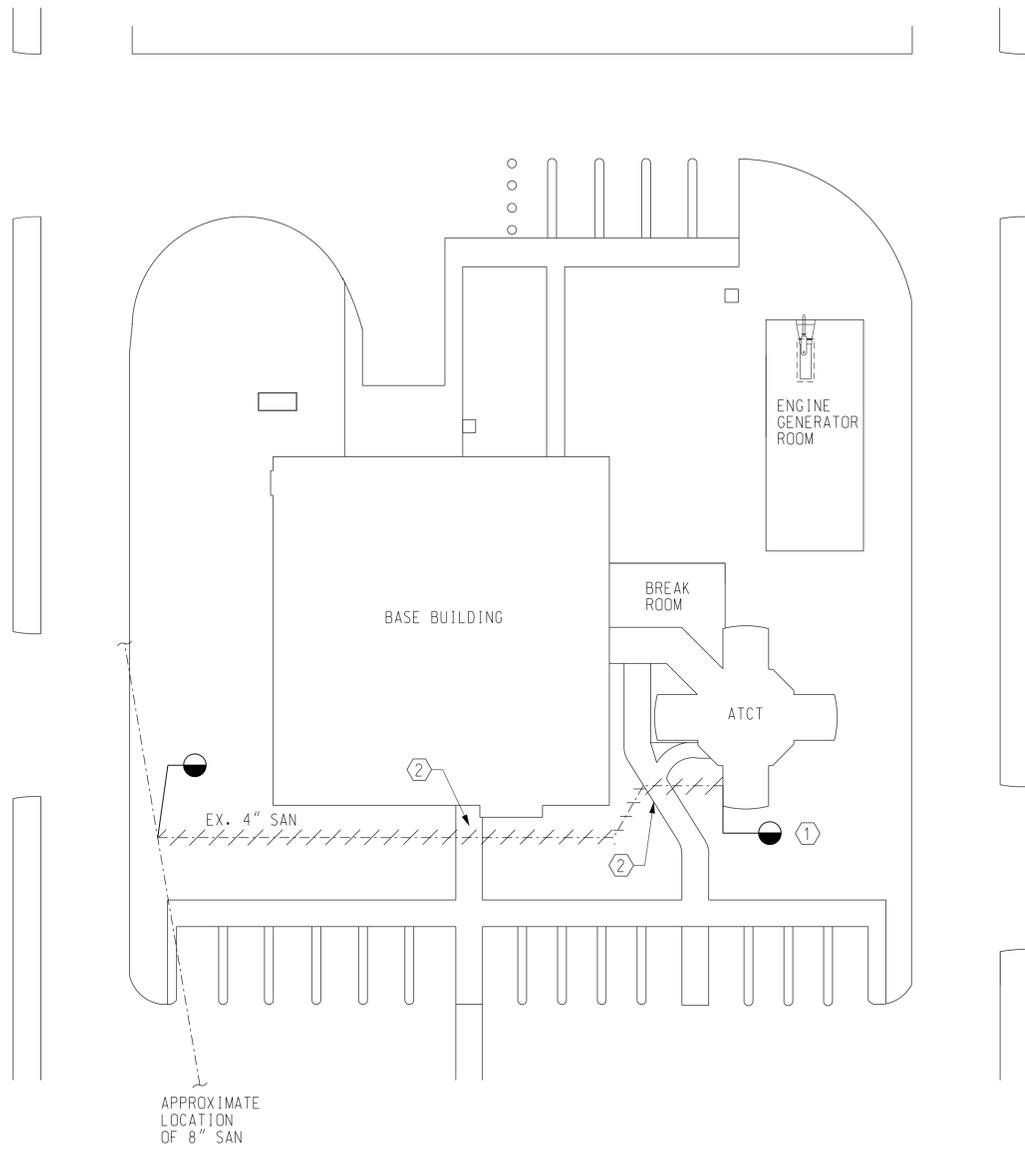
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NOTES

- 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.



1 PLUMBING SITE PLAN - DEMOLITION
 D000 SCALE: 1" = 20'-0"

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

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS PLUMBING SITE PLAN - DEMOLITION FT LAUDERDALE (INTERNATIONAL) FL					
REVIEWED BY	SUBMITTED BY	APPROVED BY			
DESIGNED	JUS	SUBMITTER'S TITLE - CIVIL ENGINEER		APPROVER'S TITLE - MANAGER	
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			FLL-D-TRACO-D000		

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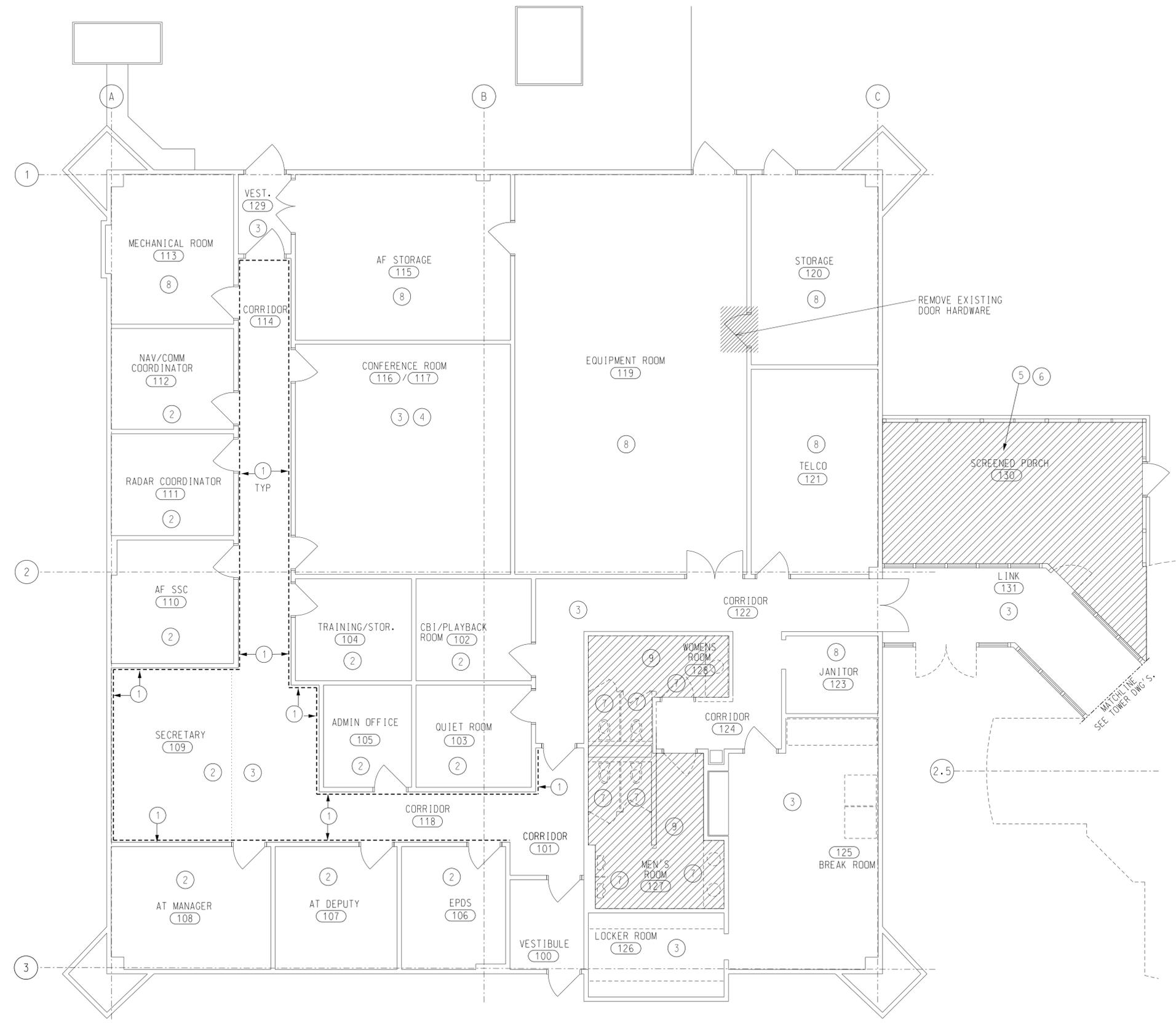
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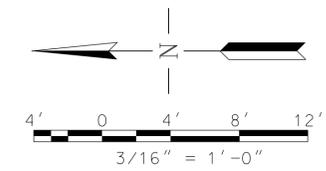
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KEYNOTES

- 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.



① BASE BUILDING FLOOR PLAN DEMOLITION
 D100 SCALE: 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

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

FT LAUDERDALE (INTERNATIONAL) FL

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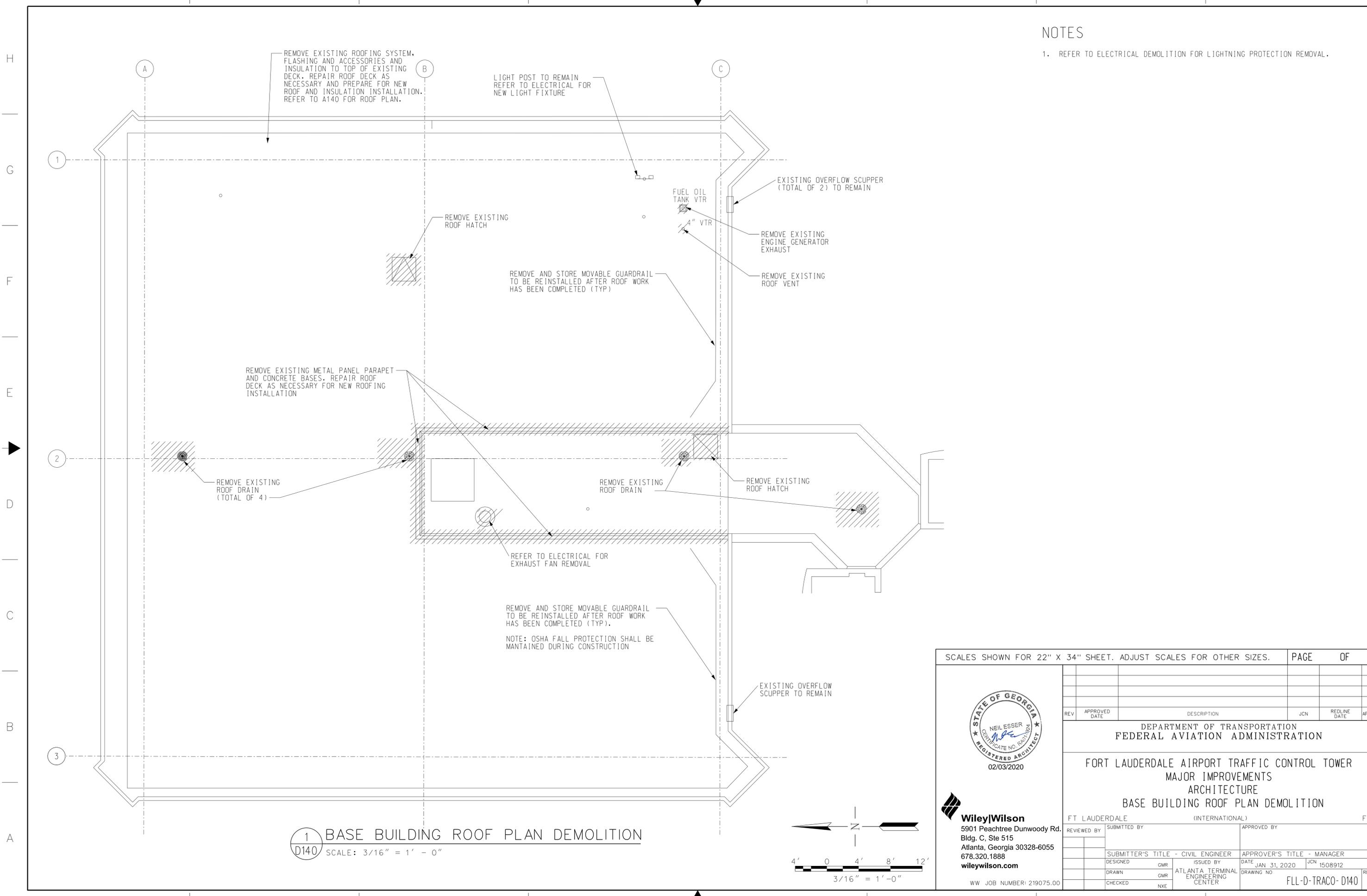
1508912
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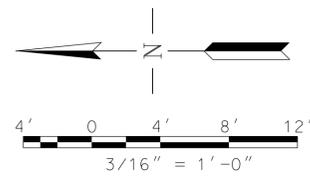
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NOTES

- 1. REFER TO ELECTRICAL DEMOLITION FOR LIGHTNING PROTECTION REMOVAL.



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



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

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

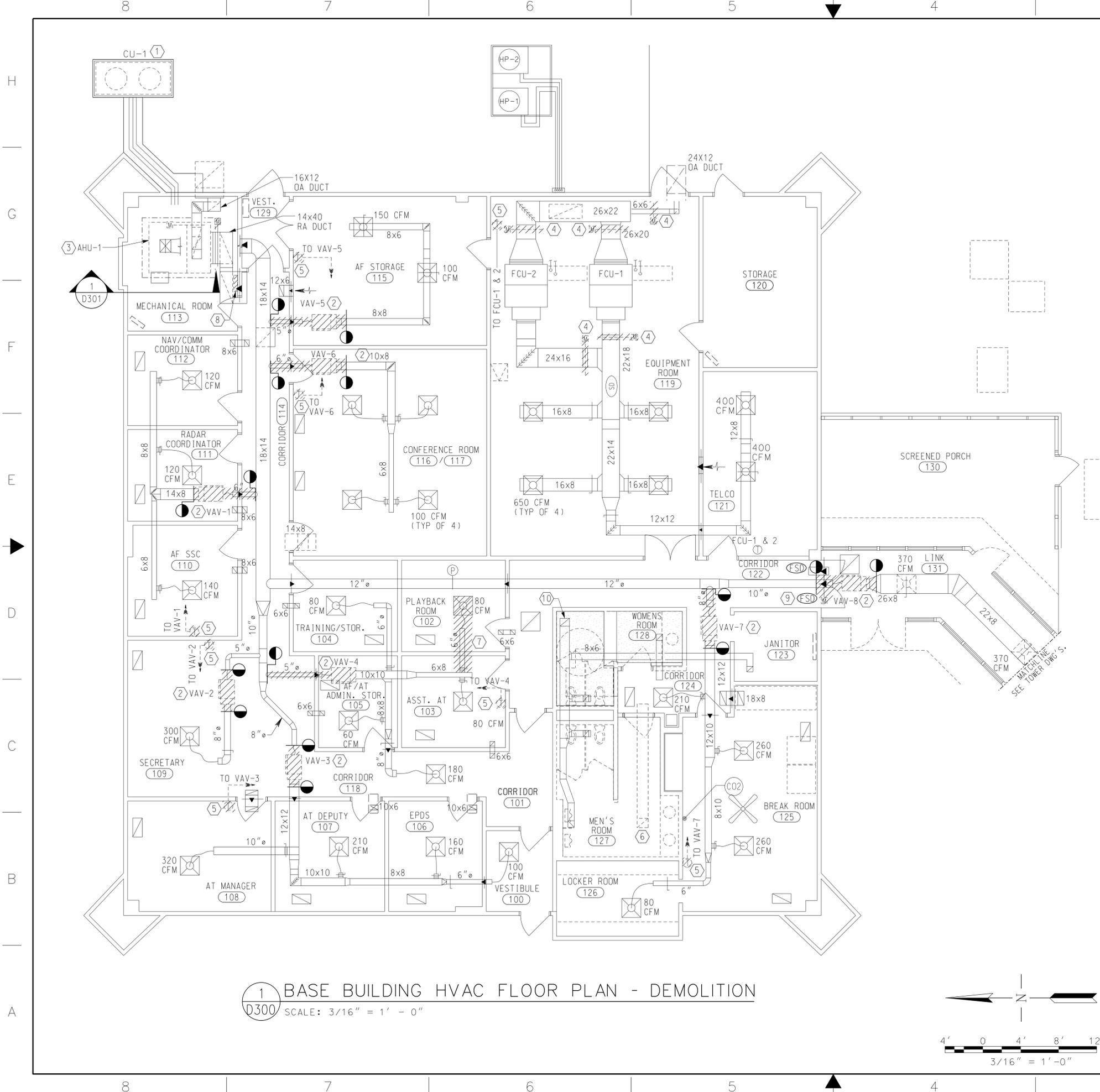
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STATE OF GEORGIA
 NEIL ESSER
 CERTIFICATE NO. 13413
 REGISTERED ARCHITECT
 02/03/2020

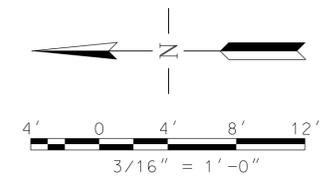
FLA-D-TRACO- D140



- ### NOTES
- ① CONDENSING UNIT (CU-1) AND ASSOCIATED LINESET REPLACED IN INITIAL PHASE OF RENOVATION.
 - ② REMOVE VAV BOXES (VAV-1 THRU VAV-8) AND FD WHERE APPLICABLE.
 - 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.

1 BASE BUILDING HVAC FLOOR PLAN - DEMOLITION
 D300 SCALE: 3/16" = 1' - 0"



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

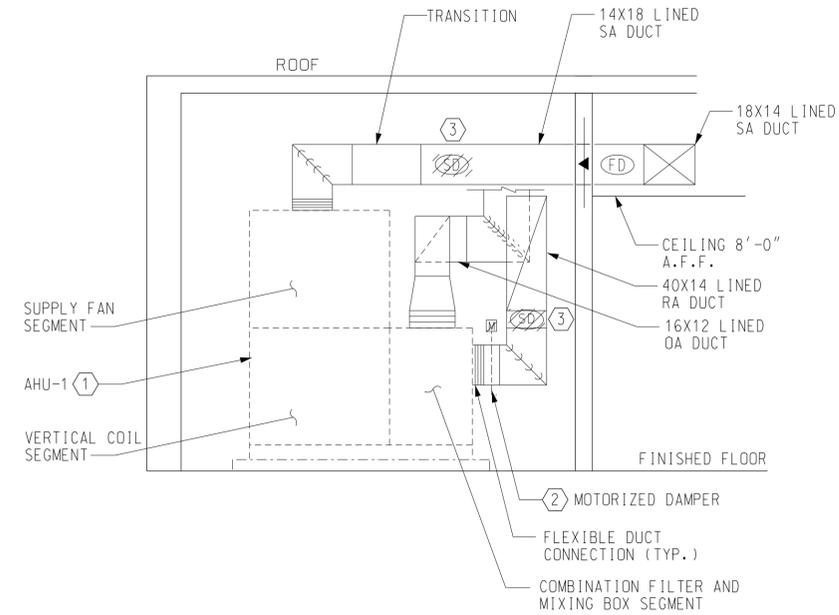
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FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS MECHANICAL BASE BUILDING FLOOR PLAN - DEMOLITION					
FT LAUDERDALE (INTERNATIONAL)			FL		
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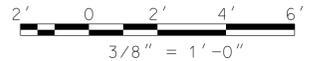
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- NOTES
- ① EXISTING AHU-1 REPLACED IN INITIAL PHASE OF RENOVATION.
 - ② EXISTING MOTORIZED DAMPER TO REMAIN.
 - ③ REMOVE EXISTING SMOKE DETECTORS.

① MECHANICAL ROOM BASE BUILDING PLAN - DEMOLITION
D301 SCALE: 3/8" = 1'-0"



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

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MAJOR IMPROVEMENTS
MECHANICAL
MECHANICAL ROOM BASE BUILDING PLAN - DEMOLITION

FT LAUDERDALE (INTERNATIONAL) FL

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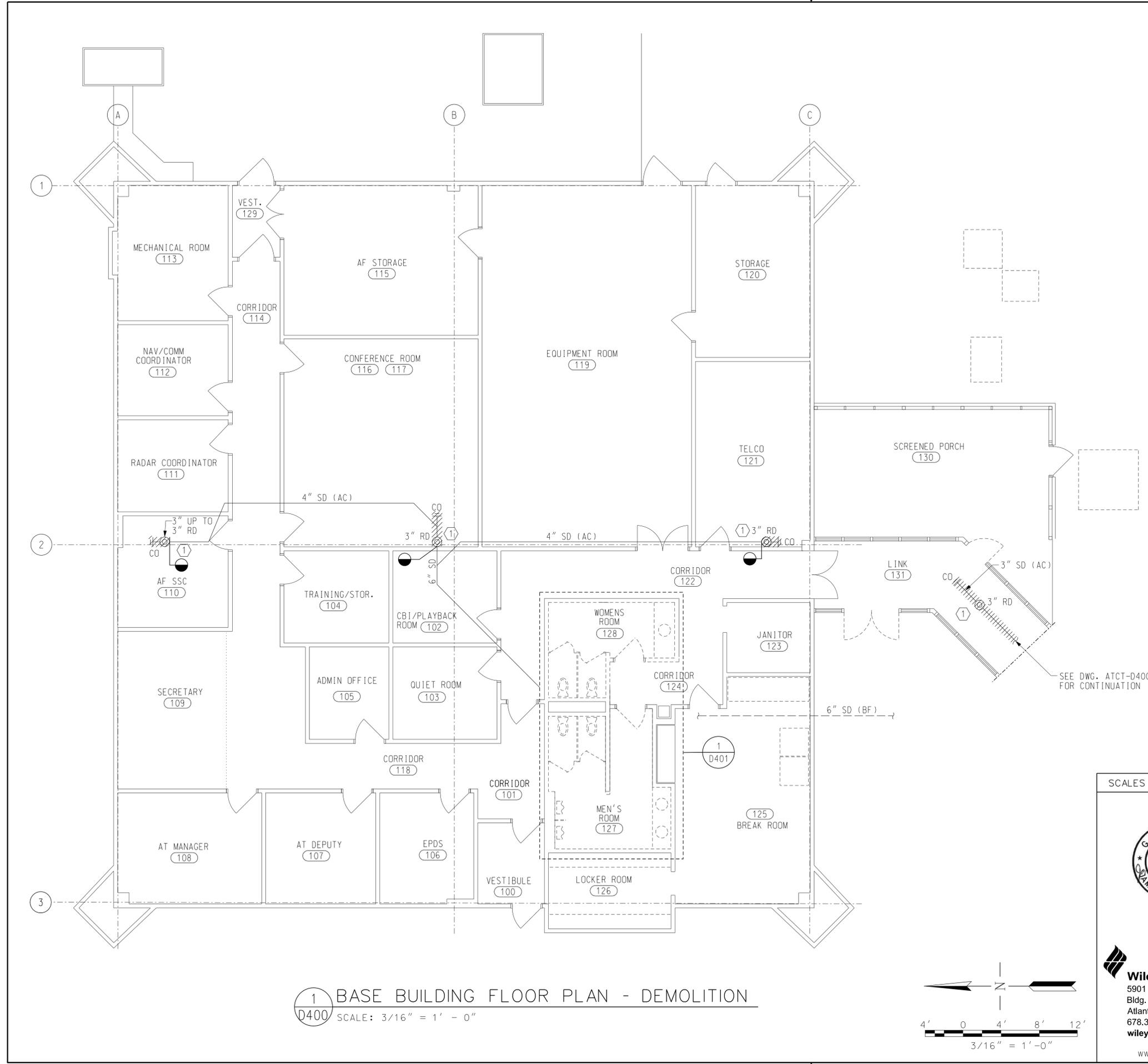
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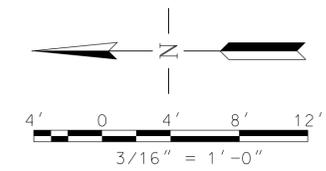
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NOTES
 ① REMOVE EXISTING ROOF DRAINS AND REPLACE WITH 4" ROOF DRAINS. SEE TRACO-P100 FOR MORE INFORMATION. CEILING TILES WILL NEED TO BE REMOVED AND REPLACED FOR WORK.

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.



① BASE BUILDING FLOOR PLAN - DEMOLITION
 D400 SCALE: 3/16" = 1' - 0"



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

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FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
 MAJOR IMPROVEMENTS

PLUMBING
 BASE BUILDING FLOOR PLAN - DEMOLITION

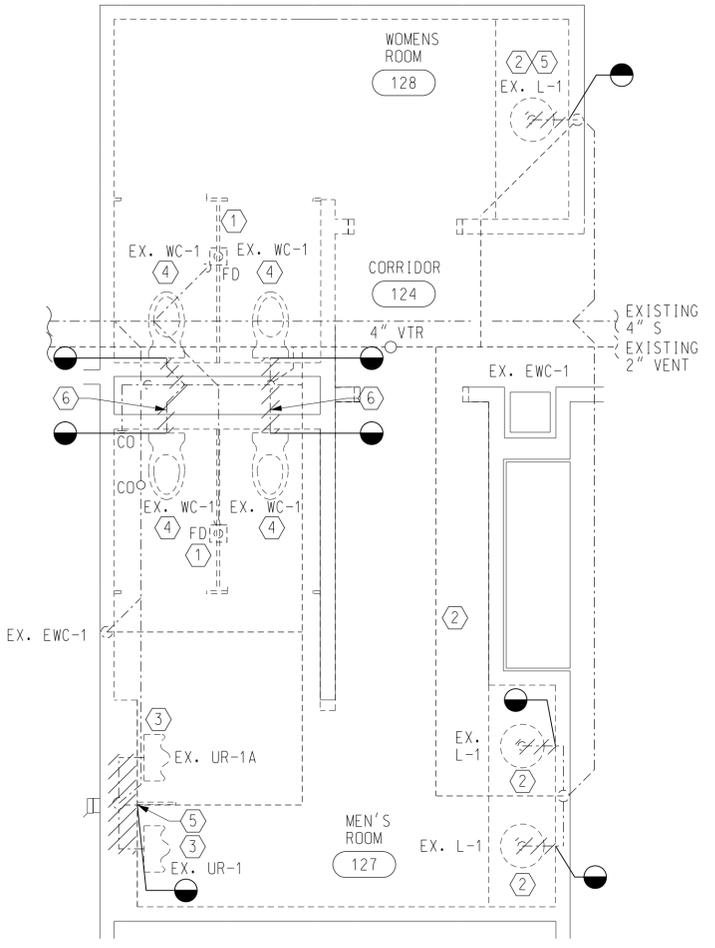
FT LAUDERDALE (INTERNATIONAL) FL

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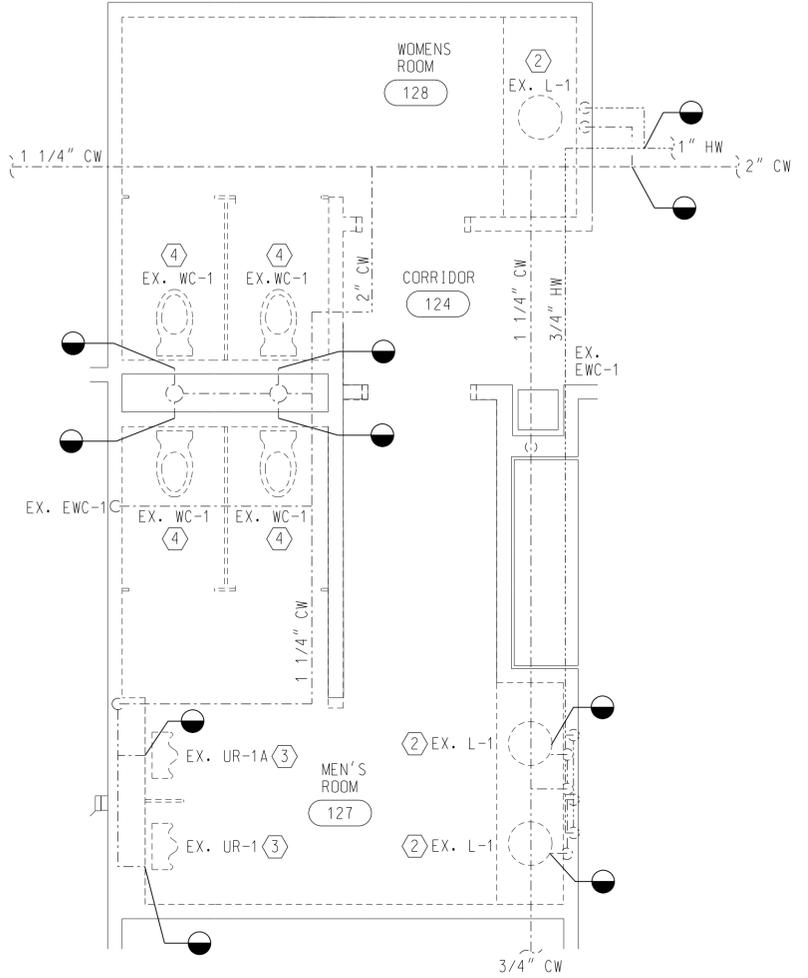
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GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. PE044677
 JOEL SMITH

FILES: 2/1/20
 DWG: 2/1/20



1
ENLARGED RESTROOM
SANITARY DEMOLITION PLAN
D401 SCALE: 3/8" = 1' - 0"



2
ENLARGED RESTROOM
DOMESTIC DEMOLITION PLAN
D401 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.

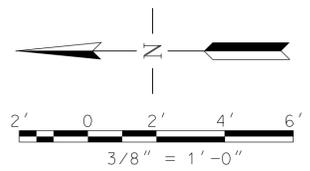
GENERAL NOTES

- 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.

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

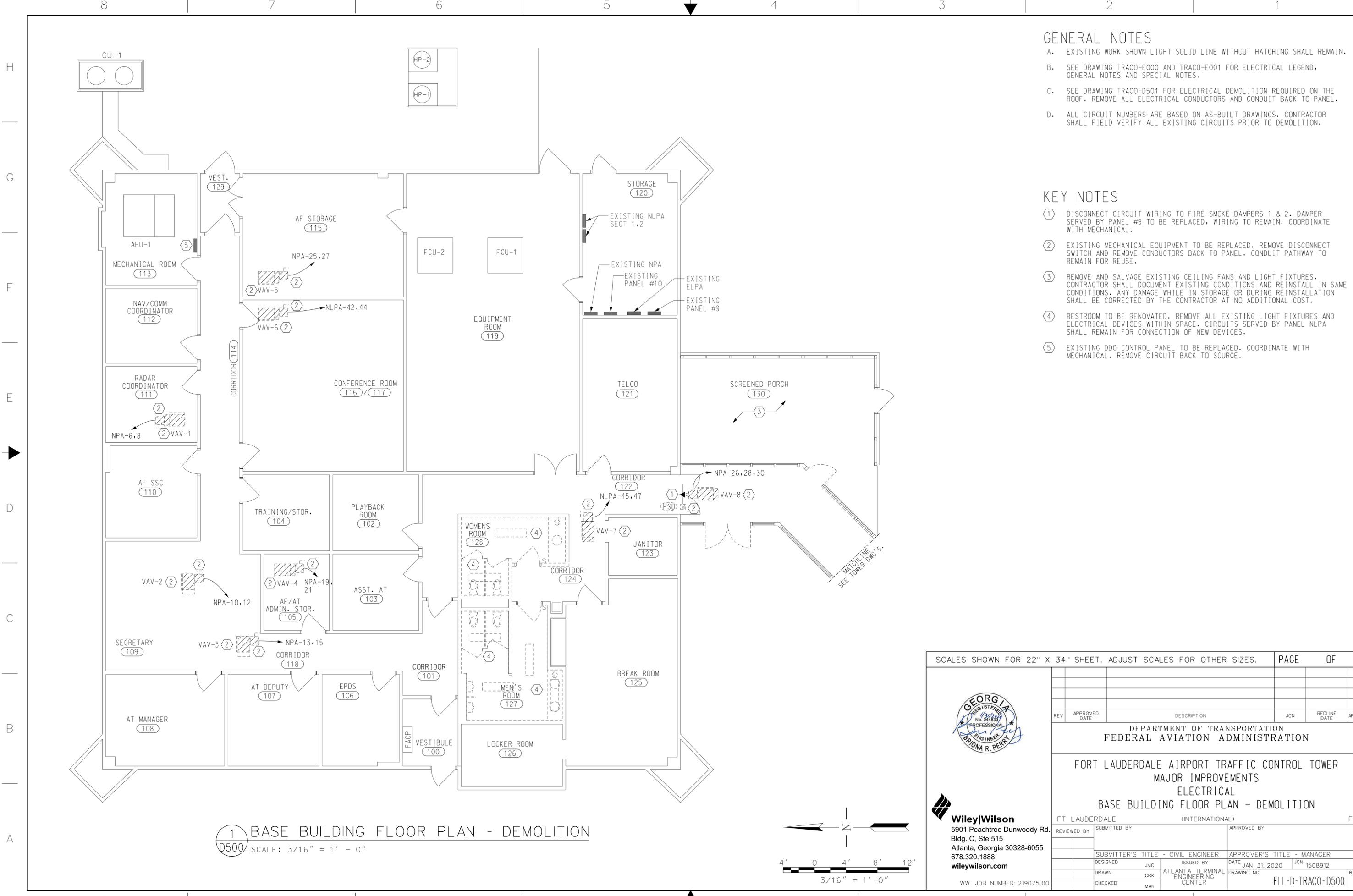


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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS PLUMBING ENLARGED RESTROOM DEMOLITION PLAN FT LAUDERDALE (INTERNATIONAL) FL					
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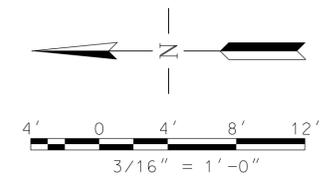
GENERAL NOTES

- 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.

1 BASE BUILDING FLOOR PLAN - DEMOLITION
 D500 SCALE: 3/16" = 1' - 0"

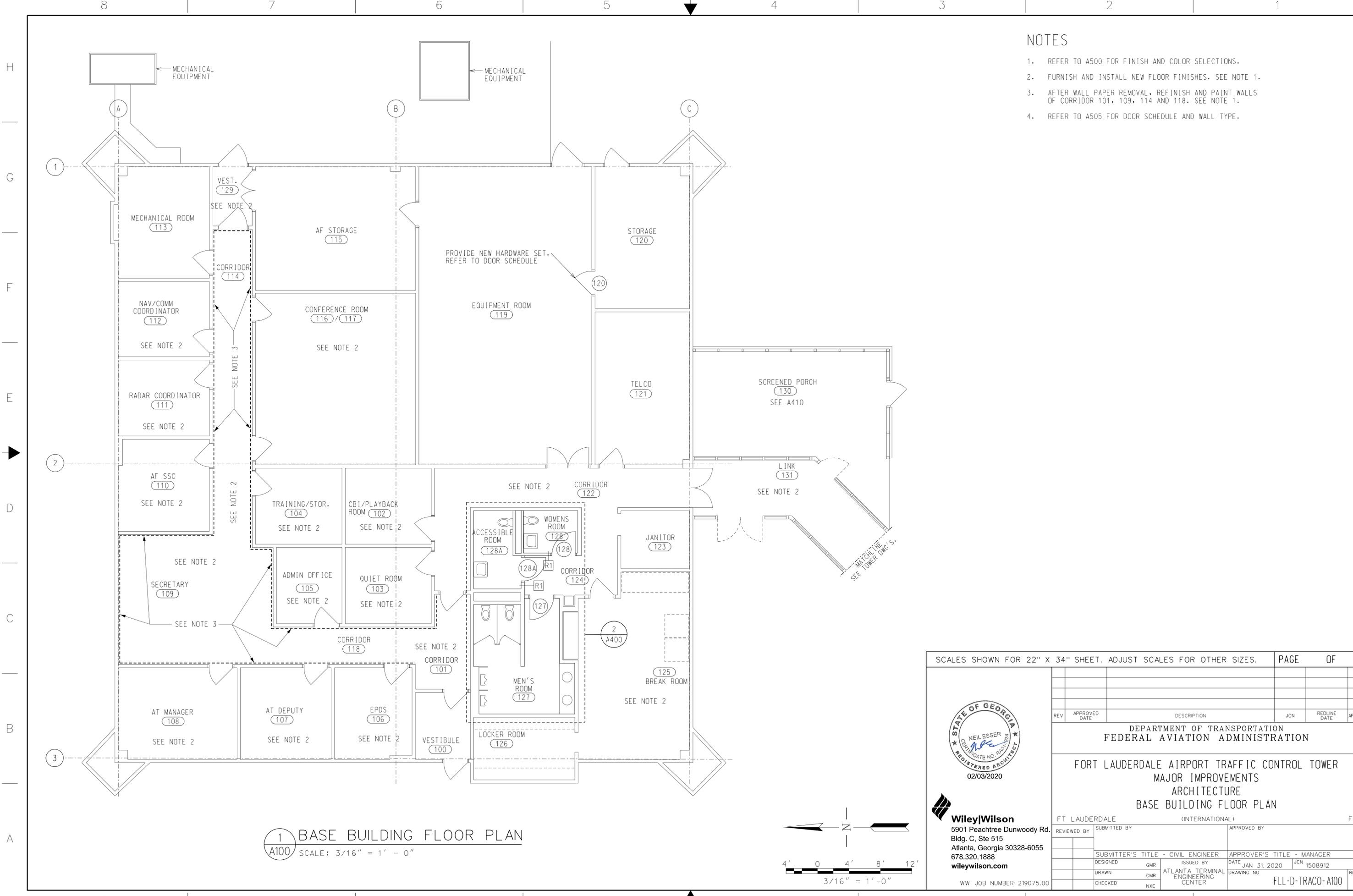


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 No. 044833
 BRIONA R. PERRY

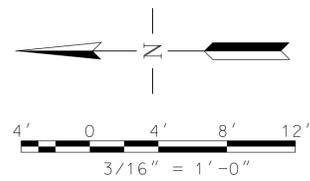


NOTES

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.

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

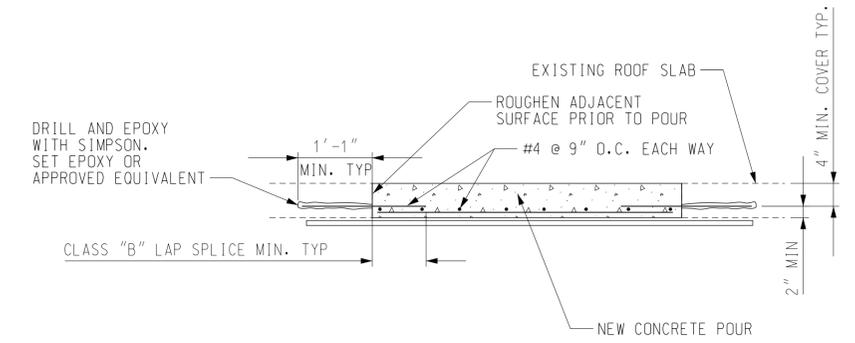
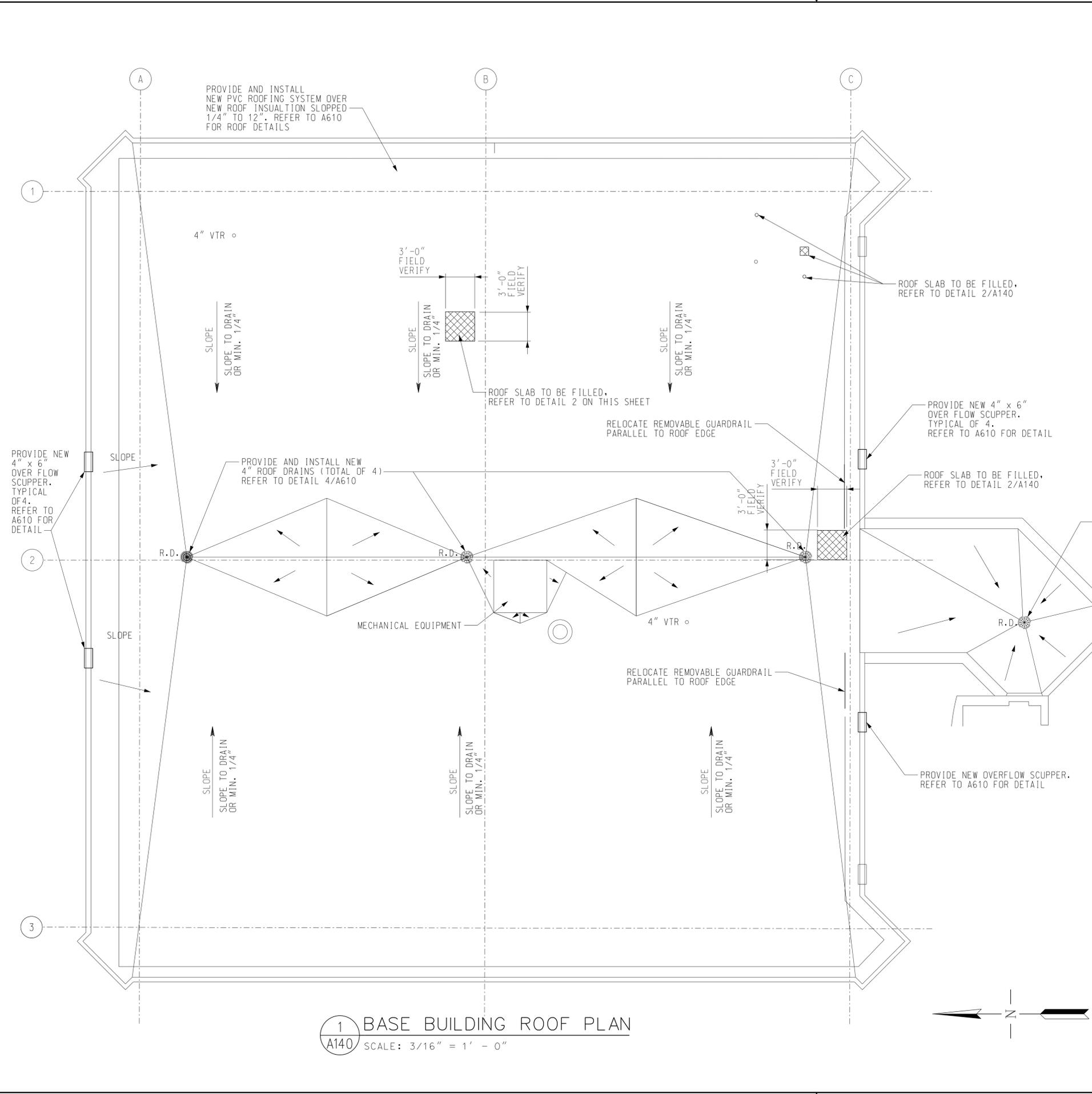
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FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ARCHITECTURE BASE BUILDING FLOOR PLAN						
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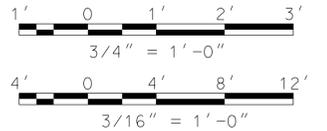
NOTES

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



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

NOTE:
DETAIL APPLIES TO ALL ROOF PENETRATIONS TO BE CLOSED.



1 BASE BUILDING ROOF PLAN
A140 SCALE: 3/16" = 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**

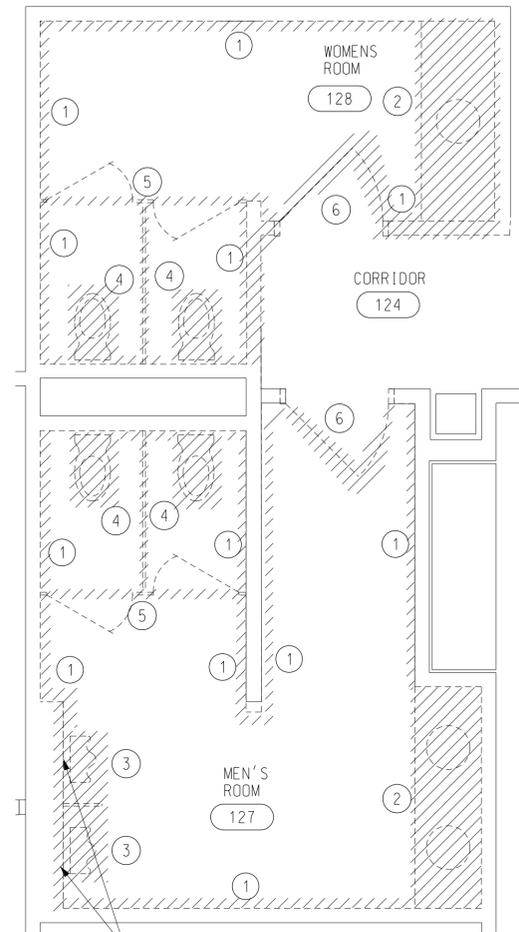
**FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURE
BASE BUILDING ROOF PLAN**

FT LAUDERDALE (INTERNATIONAL) FL

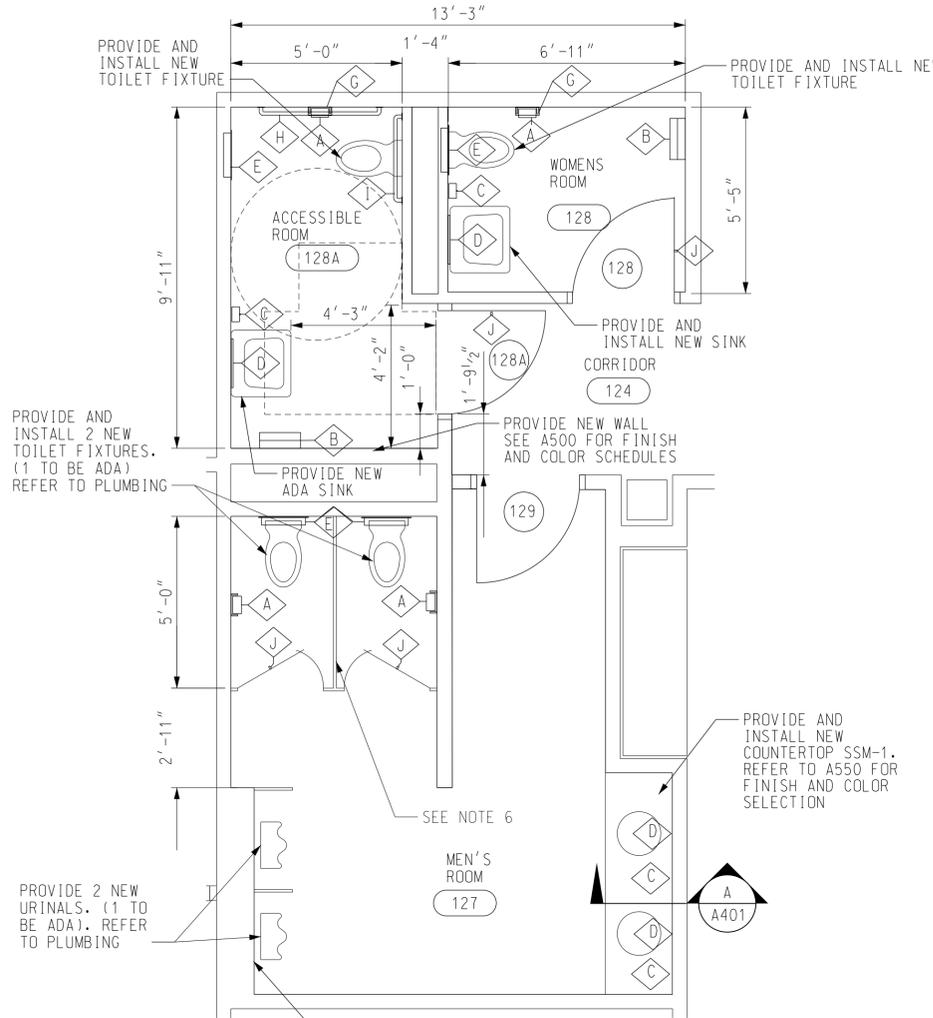
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DESIGNED	ISSUED BY	DATE
DRAWN	ATLANTA TERMINAL ENGINEERING CENTER	JCN
CHECKED		DRAWING NO

1508912
FLL-D-TRACO-A140

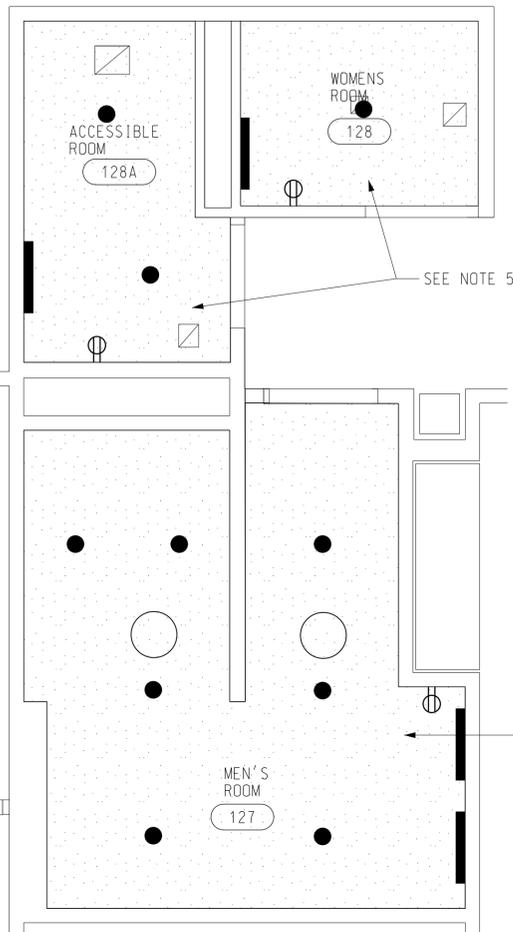
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1 RESTROOM DEMO PLAN
A400 SCALE: 3/8" = 1' - 0"



2 RESTROOM NEW WORK PLAN
A400 SCALE: 3/8" = 1' - 0"



3 RESTROOM NEW RCP
A400 SCALE: 3/8" = 1' - 0"

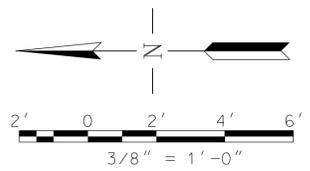
- NOTES**
1. PROVIDE NEW BATHROOM FIXTURES. REFER TO PLUMBING DRAWINGS.
 2. PROVIDE NEW ACCESSORIES, REFER TO TOILET ACCESSORIES SCHEDULE.
 3. PROVIDE NEW FLOOR AND WALL CERAMIC TILE. REFER TO FINISH SCHEDULE.
 4. PROVIDE NEW DOOR. REFER TO DOOR SCHEDULE.
 5. PROVIDE NEW GYPSUM BOARD CEILING AND CEILING 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



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

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

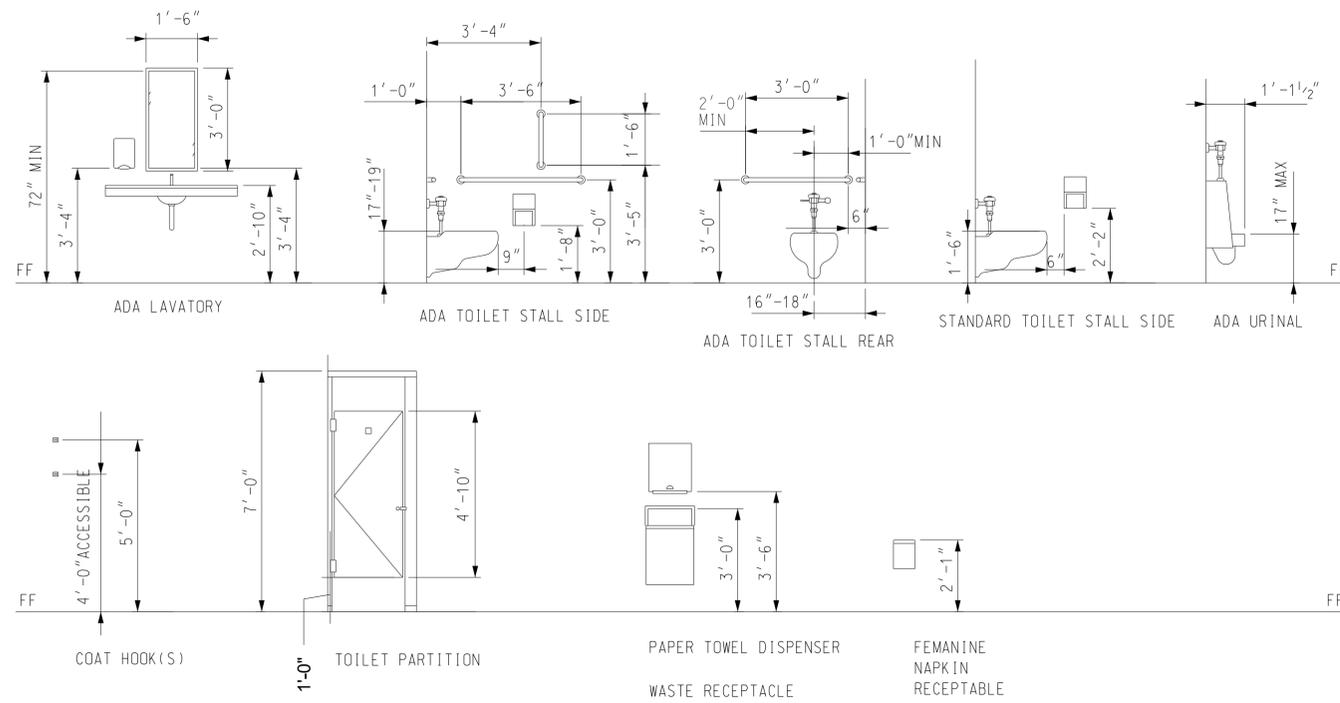
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ARCHITECTURE
RESTROOM DEMOLITION AND NEW WORK

FT LAUDERDALE (INTERNATIONAL) FL

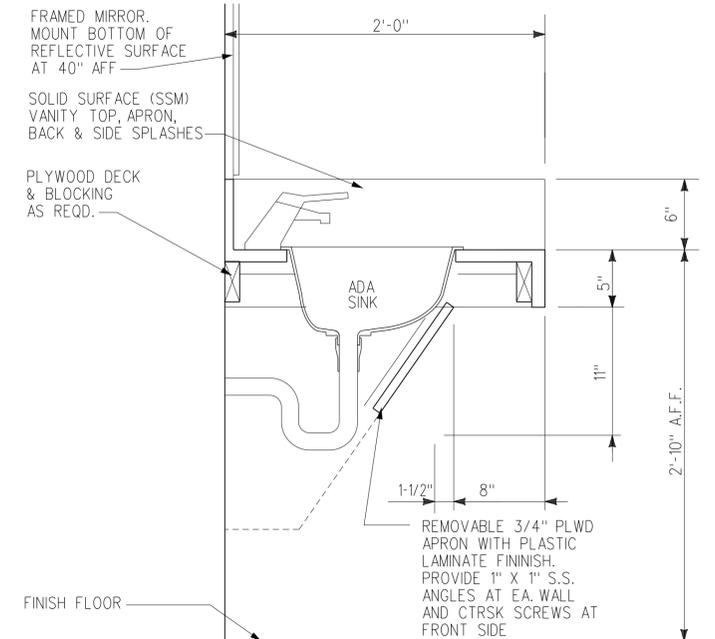
REVIEWED BY	SUBMITTED BY	APPROVED BY
SUBMITTER'S TITLE - CIVIL ENGINEER		APPROVER'S TITLE - MANAGER
DESIGNED GMR	ISSUED BY	DATE JAN 31, 2020 JCN 1508912
DRAWN GMR	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO
CHECKED NXE		

FLL-D-TRACO-A400

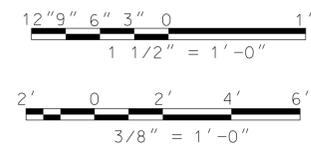
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1 ACCESSORIES HEIGHTS
A401 SCALE: 3/8" = 1' - 0"



A TYP. LAVATORY SECTION
A401 SCALE: 1 1/2" = 1' - 0"



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

STATE OF GEORGIA
 NEIL ESSER
 REGISTERED ARCHITECT
 02/03/2020

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DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
 MAJOR IMPROVEMENTS
 ARCHITECTURE
 RESTROOM ACCESSORIES

FT LAUDERDALE (INTERNATIONAL) FL

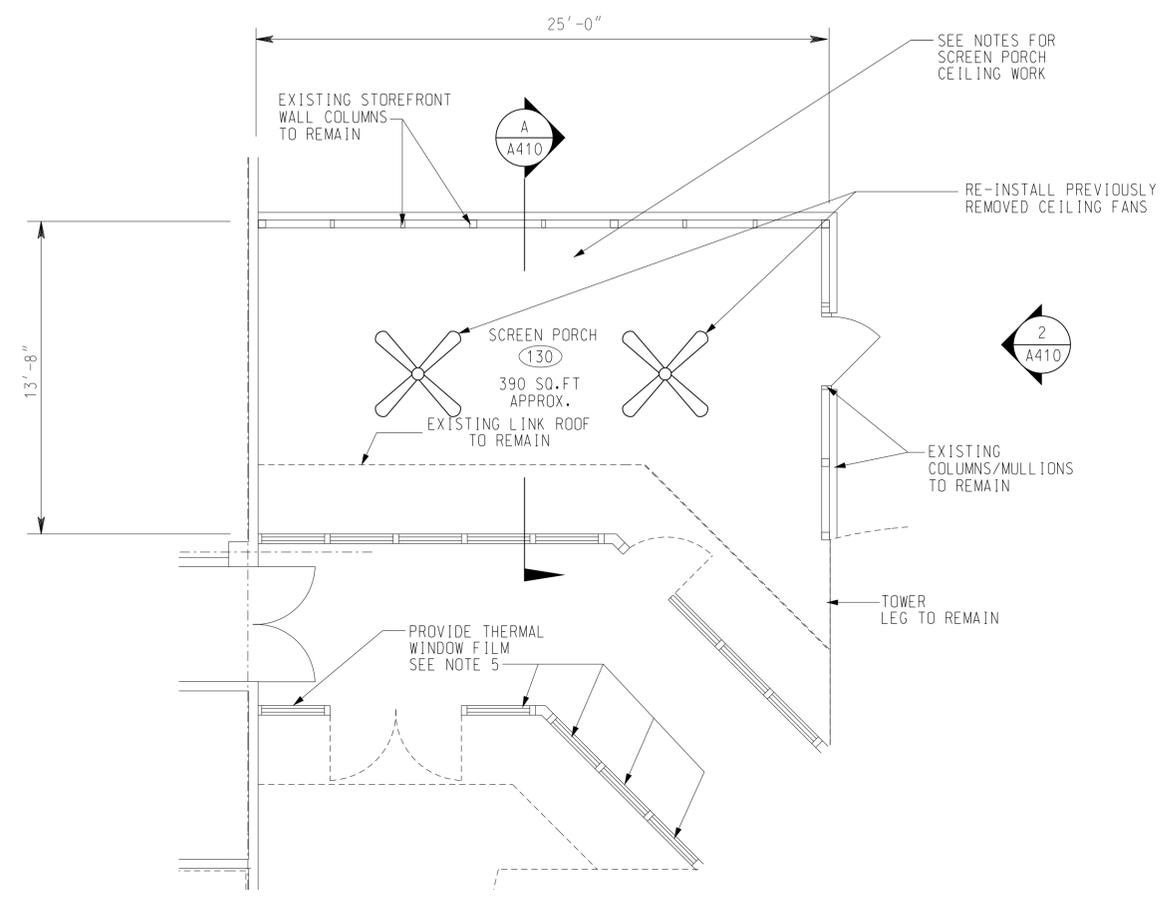
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

REVIEWED BY	SUBMITTED BY	APPROVED BY	
DESIGNED	ISSUED BY	DATE	JCN
GMR	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912
DRAWN	GMR	DRAWING NO	
CHECKED	NXE		

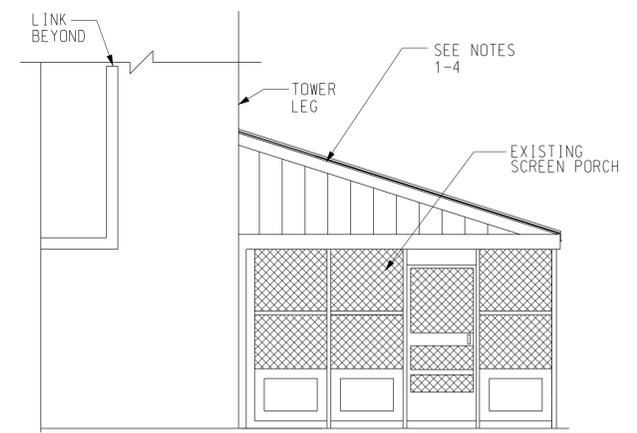
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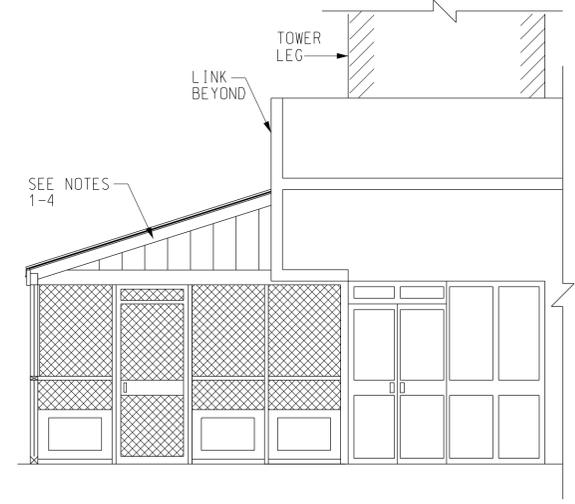
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1 SCREEN PORCH FLOOR PLAN
A410 SCALE: 1/4" = 1' - 0"



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



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

NOTES

- REMOVE EXISTING PLYWOOD CEILING. CLEAN WOOD STRUCTURE APPLY BONDING PRIME, APPLY INTUMESCENT PAINT, ALLOW TO DRY FOR 24 HOURS. APPLY TOP COAT PAINT.
- INSTALL NEW EXTERIOR GYPSUM CEILING BOARD DIRECTLY TO WOOD FRAMING APPLY PRIME, INTUMESCENT PAINT ALLOW TO DRY FOR 24 HOURS. APPLY TOP COAT PAINT.
- EXTERIOR GYPSUM BOARD KNOWN ACCEPTABLE SOURCE:
"USG"
USG 5/8" FIRECODE "C" CORE SHEETROCK BRAND EXTERIOR GYPSUM CEILING BOARD. OR APPROVED EQUAL
- INTUMESCENT PAINT KNOWN ACCEPTABLE SOURCE:
"CONTEGO"
CONTEGO INTERNATIONAL
OR APPROVED EQUAL
- 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.

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

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

FT LAUDERDALE (INTERNATIONAL) FL

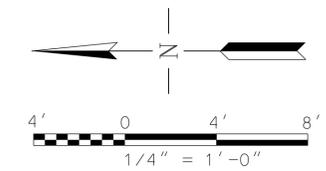
REVIEWED BY	SUBMITTED BY	APPROVED BY
DESIGNED	GMR	ISSUED BY
DRAWN	GMR	ATLANTA TERMINAL ENGINEERING CENTER
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DATE JAN 31, 2020 JCN 1508912

DRAWING NO. **FLL-D-TRACO-A410**

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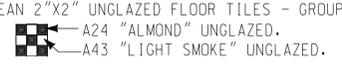
WW JOB NUMBER: 219075.00



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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	CONFERENCE ROOM	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
117	CORRIDOR	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	
<p>CARPET (CPT)</p> <p>CPT-1 INTERFACE, STYLE: 1467802500, FOLIO 11 (50CM X 50CM) COLOR: 9646 STEEL</p> <p>CPT-2 FOR THE TOWER - CAB</p>	<p>PAINT (P)</p> <p>P-1 SHERWIN WILLIAMS 6253 "OLYMPUS WHITE"</p> <p>P-2 SHERWIN WILLIAMS 7006 "EXTRA WHITE" (EXPOSED STRUCTURE ABOVE)</p>
<p>RUBBER BASE (RB)</p> <p>RB-1 4" COVED WALL BASE COLOR EQUAL TO "ROPPE P129 DOLPHIN"</p>	<p>PLASTIC LAMINATE (PLAM)</p> <p>PLAM-1 EQUAL TO FORMICA "7884-58 CHESTNUT WOODLINE, MATTE FINISH."</p>
<p>SOLID SURFACE MATERIAL (SSM)</p> <p>SSM-1 EQUAL TO DUPONT CORIAN "SILT".</p>	<p>TOILET PARTITIONS (TP)</p> <p>TP-1 KNICKERBOCKER - METROPOLITAN STYLE FINISH: STAINLESS STEEL FINISH</p>
<p>CERAMIC TILE (CT)</p> <p>CT-1 AMERICAN OLEAN 2"X2" UNGLAZED FLOOR TILES - GROUP 1  </p> <p>CT-2 AMERICAN OLEAN 4-1/4" HIGH BASE CONSISTING OF 2" SQUARES OF "A43 LIGHT SMOKE" UNGLAZED</p> <p>CT-3 AMERICAN OLEAN 6" X 6" GLAZED WALL TILE - "0012 GLOSS ALMOND"</p>	<p>RESILIENT FLOORING (VCT) - VINYL COMPOSITE TILE</p> <p>VCT-1 COLOR EQUAL TO "AZROCK VINYL ENHANCED TILE, AZTERRA AT-104 GREY ROCK."</p>

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

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

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		ISSUED BY		DATE	
DRAWN		ATLANTA TERMINAL ENGINEERING CENTER		JAN 31, 2020	
CHECKED		NKE		JCN 1508912	
				DRAWING NO	
				FLL-D-TRACO-A500	



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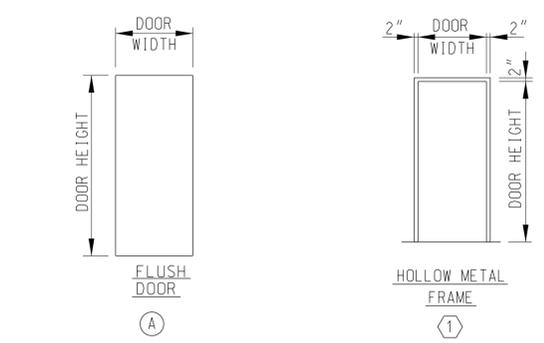
WW JOB NUMBER: 219075.00

DOOR SCHEDULE

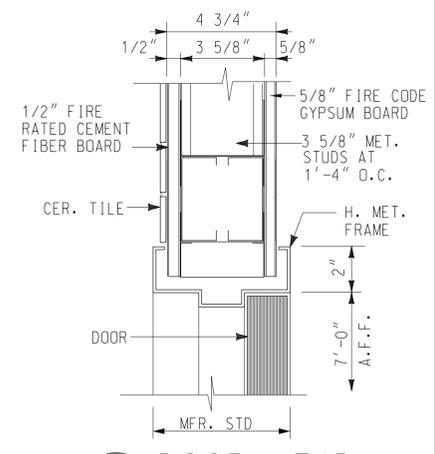
DOOR #	LOCATION	DOOR SCHEDULE	FRAME SCHEDULE			HARDWARE SCHEDULE						SECURITY DOOR MATRIX						SIGN			COMMENTS													
			REMOVE EXIST AND INSTALL NEW DOOR AND FRAME	INSTALL NEW DOOR	NEW HARDWARE ONLY	WIDTH	HEIGHT	THICK.	MATERIAL	FINISH	TYPE	TYPE	MATERIAL	FINISH	PAIR HINGES TOTAL	DOOR CLOSER	WEATHER 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
128	WOMEN'S ROOM		●			3'-0"	7'-0"	1 3/4"	STL	PAINT	(A) (1)	STL	PAINT	1.5	●	-	L	45		-	-	-	●	-	-	-	-	-	-	-	-	-	-	
128A	ACCESSIBLE ROOM		●			3'-0"	7'-0"	1 3/4"	STL	PAINT	(A) (1)	STL	PAINT	1.5	●	-	L	45		-	-	-	●	-	-	-	-	-	-	-	-	-	-	REFER TRACO-F102 FOR DOOR LOCATION
127	MEN'S ROOM		●			3'-0"	7'-0"	1 3/4"	STL	PAINT	(A) (1)	STL	PAINT	1.5	●	-	P	45		-	-	-	●	-	-	-	-	-	-	-	-	-	-	
120	STORAGE ROOM			●		-	-	-	-	-	-	-	-	-	●	-	D	-		-	-	-	●	-	-	-	-	-	-	-	-	-		
E/G BUILDING																																		
EG02A	E/G BUILDING		●			3'-0"	7'-0"	1 3/4"	STL	PAINT	(A) (1)	STL	PAINT	1.5	●	-	D	90		-	-	-	●	-	-	-	-	-	-	-	-	-	-	REFER TRACO-F102 FOR DOOR LOCATION
EG02B	E/G BUILDING		●			3'-0"	7'-0"	1 3/4"	STL	PAINT	(A) (1)	STL	PAINT	1.5	●	-	D	90		-	-	-	●	-	-	-	-	-	-	-	-	-	-	REFER TRACO-F102 FOR DOOR LOCATION

DOOR HARDWARE DESCRIPTION

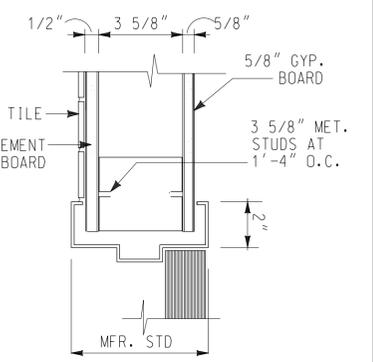
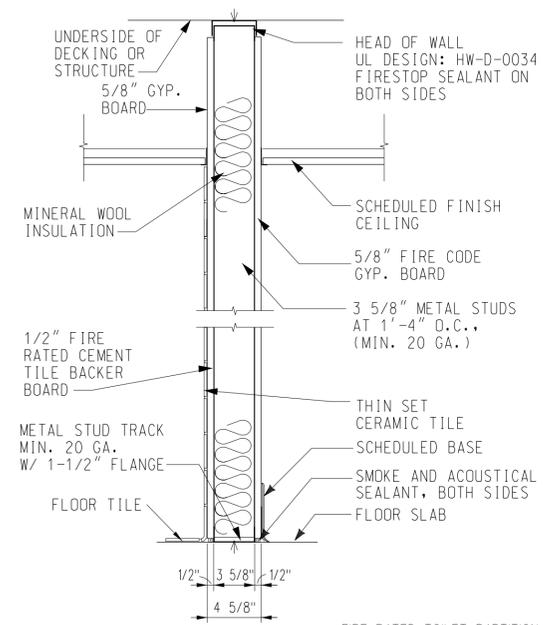
DESIG.	FUNCTION	DESCRIPTION	OUTSIDE LEVER		INSIDE LEVER	
			LOCKED BY	UNLOCKED BY	LOCKED BY	UNLOCKED BY
● P	PASSAGE	TURNING THE INSIDE LEVER, OR ROTATING THE OUTSIDE LEVER	CANNOT BE LOCKED	ALWAYS UNLOCKED	CANNOT BE LOCKED	ALWAYS UNLOCKED
● L	PRIVACY	ROTATING THE INSIDE LEVER, OR ROTATING THE OUTSIDE LEVER ONLY WHEN THE INSIDE PUSH BUTTON IS OUT	PUSHING THE INSIDE BUTTON	ROTATING THE OUTSIDE SLOTTED BUTTON, OR ROTATING INSIDE LEVER, OR CLOSING THE DOOR	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 DOOR AND FRAME TYPE
A505 NOT TO SCALE



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



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

4 SILL DETAIL
A505 SCALE: 3" = 1'-0"

PLAN KEY	TYPICAL PARTITION	SCALE: NONE
[R1]	FIRE RATING: 1 HOUR	DESIGN: UL U433
	STC RATING: 42	TEST NO.: ---

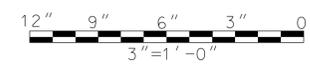
NOTE: WALL TO BE SEALED (TOP AND BOTTOM) WITH FIRE RATED SEALANT TO PROVIDE A 1HR RATED SEPARATION.

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

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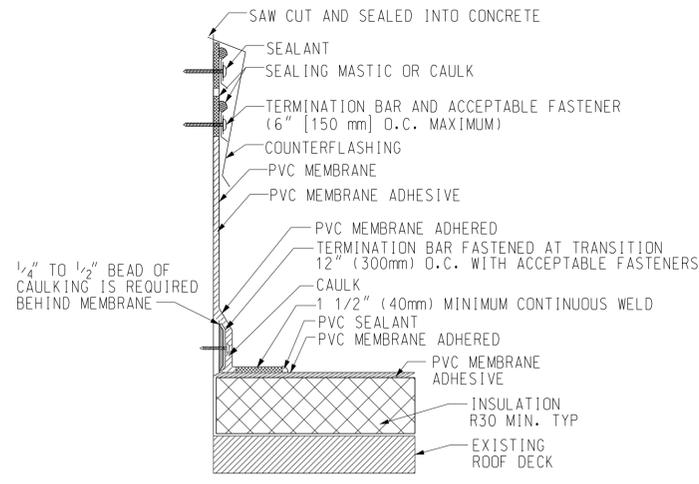
WW JOB NUMBER: 219075.00

REV	08/05/2020	ISSUE FOR CONSTRUCTION	JCN	REDLINE DATE	APVD
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		
DESIGNED GMR	ISSUED BY		DATE	JCN	
DRAWN GMR	ATLANTA TERMINAL ENGINEERING CENTER		JAN 31, 2020	1508912	
CHECKED NXE			DRAWING NO	REV	
			FLL-D-TRACO-A505		

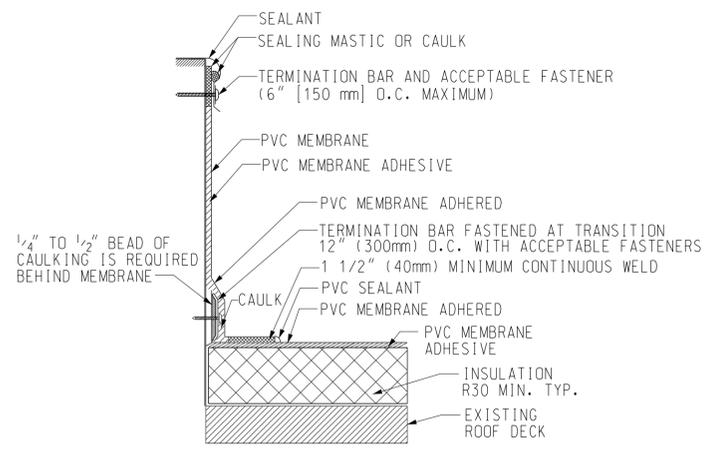


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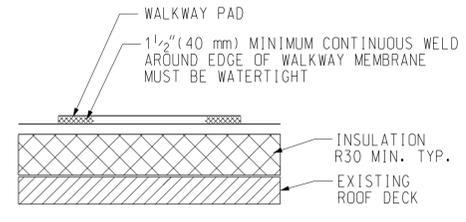
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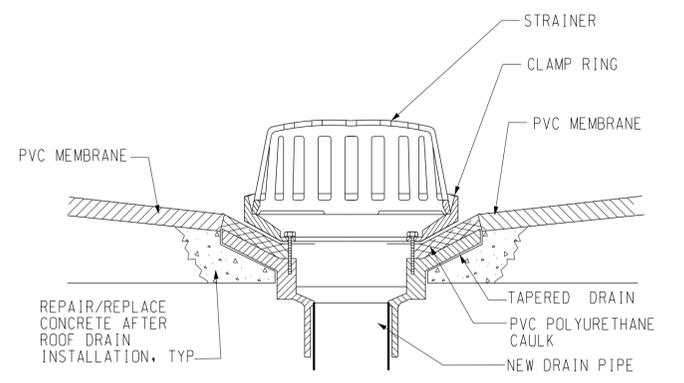
1 VERTICAL FLASHING DETAIL
A610 SCALE: NONE



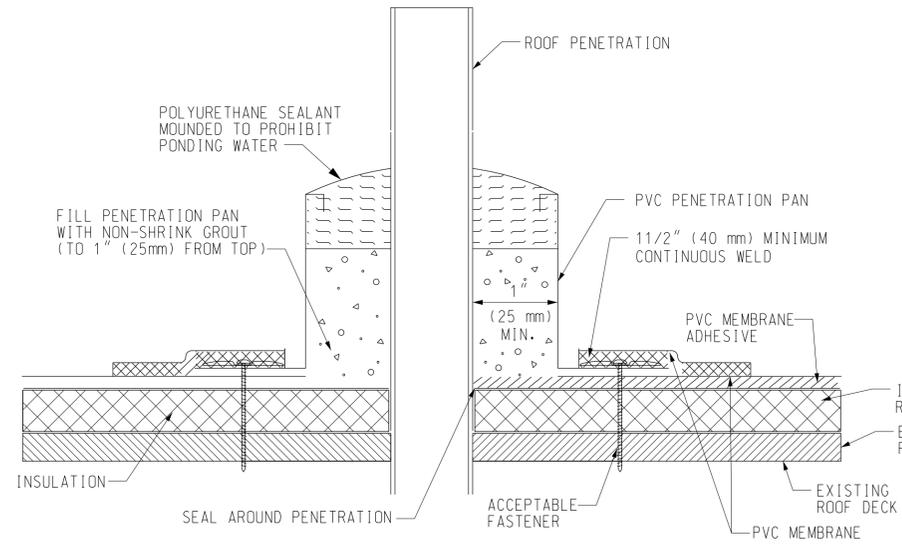
2 OUTSIDE FLASHING DETAIL
A610 SCALE: NONE



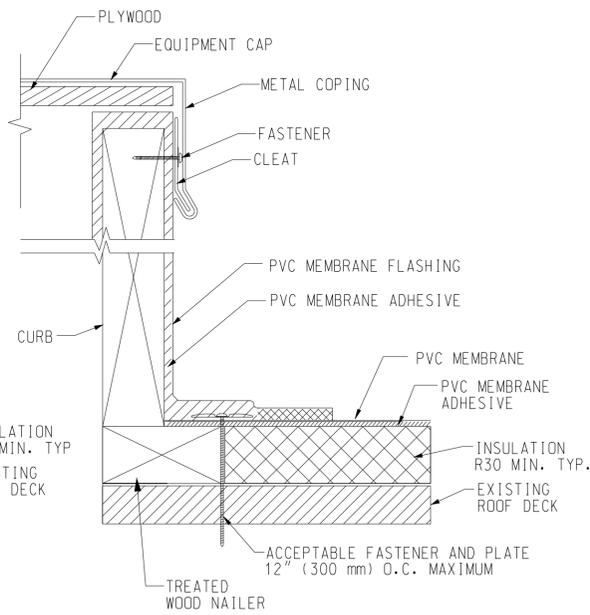
3 WALKWAY PAD DETAIL
A610 SCALE: NONE



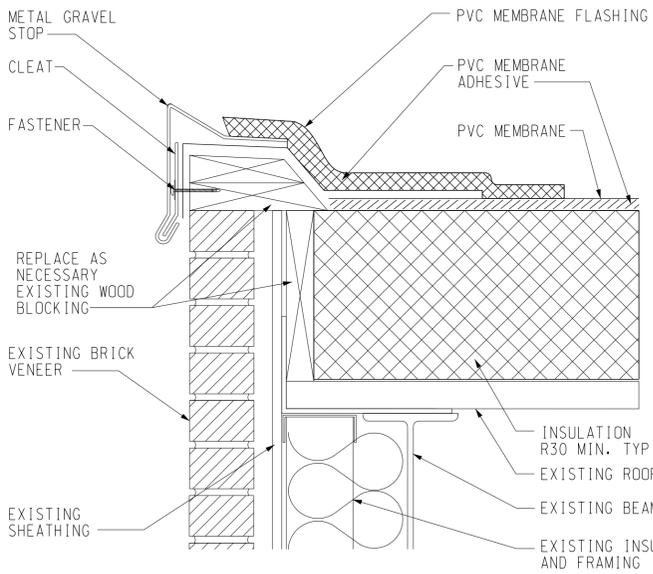
4 DRAIN DETAIL
A610 SCALE: NONE



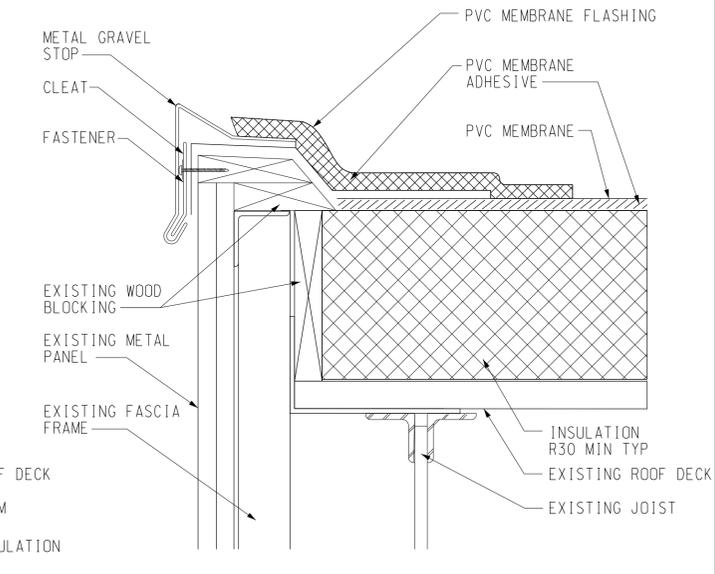
5 PITCH POCKET DETAIL
A610 SCALE: NONE



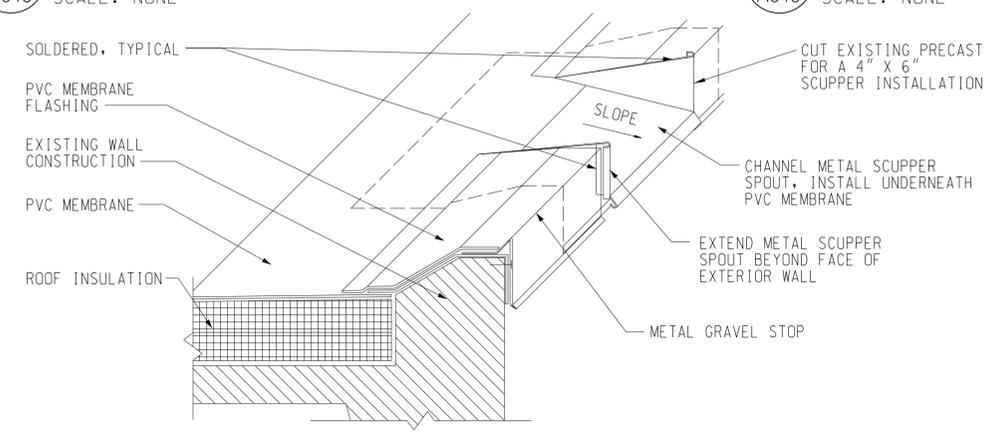
6 CURB CAP DETAIL
A610 SCALE: NONE



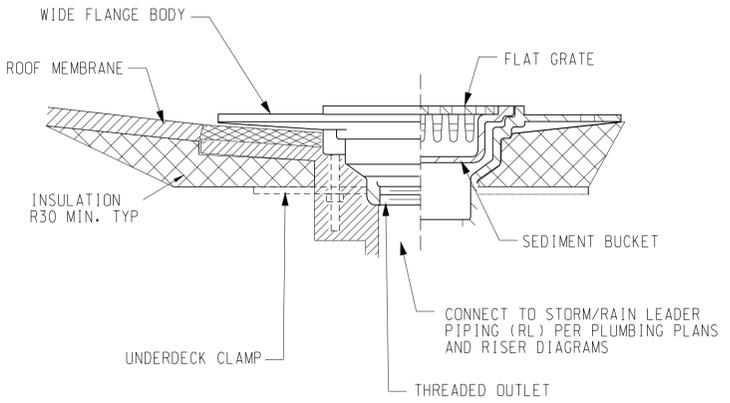
7 ROOF EDGE DETAIL 1
A610 SCALE: NONE



8 ROOF EDGE DETAIL 2
A610 SCALE: NONE



9 OVERFLOW SCUPPER DETAIL
A610 SCALE: NONE



10 DRAIN AND SUMP DETAIL
A610 SCALE: NONE

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

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

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
ISSUED BY
DATE JAN 31, 2020 JCN 1508912

DESIGNED GMR
DRAWN GMR
CHECKED NXE

ATLANTA TERMINAL ENGINEERING CENTER
DRAWING NO
REV

FLLD-D-TRACO- A610

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

WW JOB NUMBER: 219075.00

FILES
DWG
REV

HEATING, VENTILATION & AIR CONDITIONING LEGEND

	DETAIL NUMBER DRAWING WHERE SHOWN		HEATING HOT WATER RETURN LINE		HUMIDIFIER
	ADJUSTABLE THERMOSTAT WITH ALPHANUMERIC DISPLAY		MOTOR OPERATED DAMPER		FLOW ELEMENT, DUCT-MOUNTED
	EQUIPMENT (REFER TO SCHEDULE)		FLOW METER		HUMIDITY TRANSMITTER
	DUCT SIZE - FIRST FIGURE IS SIDE SHOWN		FLEXIBLE PIPE CONNECTION		THERMOMETER, AVERAGING
	LINED DUCTWORK		FLEXIBLE DUCT CONNECTION		THERMOMETER, NON-AVERAGING
	CEILING DIFFUSER FOUR WAY BLOW U.N.O. (REFER TO SCHEDULE)		CHILLED WATER, COOLING COIL		THERMOSTAT, LOW-TEMPERATURE PROTECTION
	RETURN AIR GRILLE (REFER TO SCHEDULE)		DIRECT EXPANSION, COOLING COIL		DIFFERENTIAL-PRESSURE SWITCH
	LOUVER AND SCREEN REFER TO PLANS FOR SIZE		ELECTRIC DUCT HEATER, HEATING COIL		DIFFERENTIAL-PRESSURE INDICATOR
	CONDENSATE DRAIN TRAP (SEE DETAILS)		ELECTRIC, HEATING COIL		DAMPER ACTUATOR
	DUCT SECTION POSITIVE PRESSURE		HOT WATER, HEATING COIL		Y-STRAINER WITH BLOW-OFF VALVE AND COUPLING
	DUCT SECTION NEGATIVE PRESSURE		SUPPLY FAN		Y-STRAINER
	SPIN-IN FITTING WITH MANUAL DAMPER/FLEX. DUCT		HUMIDISTAT		3-WAY CONTROL VALVE WITH MOTOR OPERATOR
	DUCT SECTION ROUND		CHILLER		2-WAY CONTROL VALVE WITH MOTOR OPERATOR
	MANUAL VOLUME DAMPER		AUTOMATIC DAMPER PARALLEL BLADE WITH SEALS		GATE VALVE
	COMBINATION FIRE AND SMOKE DAMPER		TEMPERATURE TRANSMITTER DUCT-MOUNTED		GLOBE VALVE
	FIRE DAMPER		TEMPERATURE TRANSMITTER, DUCT-MOUNTED, AVERAGING		CHECK VALVE
	DUCT SMOKE DETECTOR		SMOKE DETECTOR, DUCT-MOUNTED		DOUBLE CHECK BACKFLOW PREVENTER VALVE
	90° LOW PRESSURE ELBOW (PROVIDE DOUBLE THICKNESS TURNING VANE)		PRESSURE TRANSMITTER		PRESSURE REDUCING VALVE
	EXISTING WORK AS SHOWN LIGHT SOLID LINE		PRESSURE INDICATOR (GAUGE)		COMBINATION BALANCING AND FLOW MEASURING DEVICE
	EXISTING WORK SHALL BE REMOVED AS SHOWN CROSS-HATCHED		VARIABLE SPEED DRIVE		UNION
	INTERFACING POINT BETWEEN EXISTING WORK TO REMAIN AND EXISTING WORK TO BE REMOVED		VARIABLE FREQUENCY DRIVE		EXPANSION VALVE, THERMOSTATIC
	NEW WORK SHOWN AS HEAVY SOLID LINE		AIR FLOW MEASURING STATION		SOLENOID VALVE
	CONNECTING POINT BETWEEN NEW WORK AND EXISTING WORK		DIFFERENTIAL - PRESSURE TRANSMITTER		BOILER
	ACTUATOR ELECTRIC OR ELECTRONIC		CURRENT RELAY		PLATE AND FRAME HEAT EXCHANGER
	SQUARE-TO-ROUND TRANSITION		FILTER		EXISTING FIRE DAMPER
	CHILLED WATER SUPPLY LINE				
	CHILLED WATER RETURN LINE				
	DOMESTIC COLD WATER PIPING				
	HEATING HOT WATER SUPPLY LINE				
	BAS - BUILDING AUTOMATION SYSTEM				

HVAC GENERAL NOTES

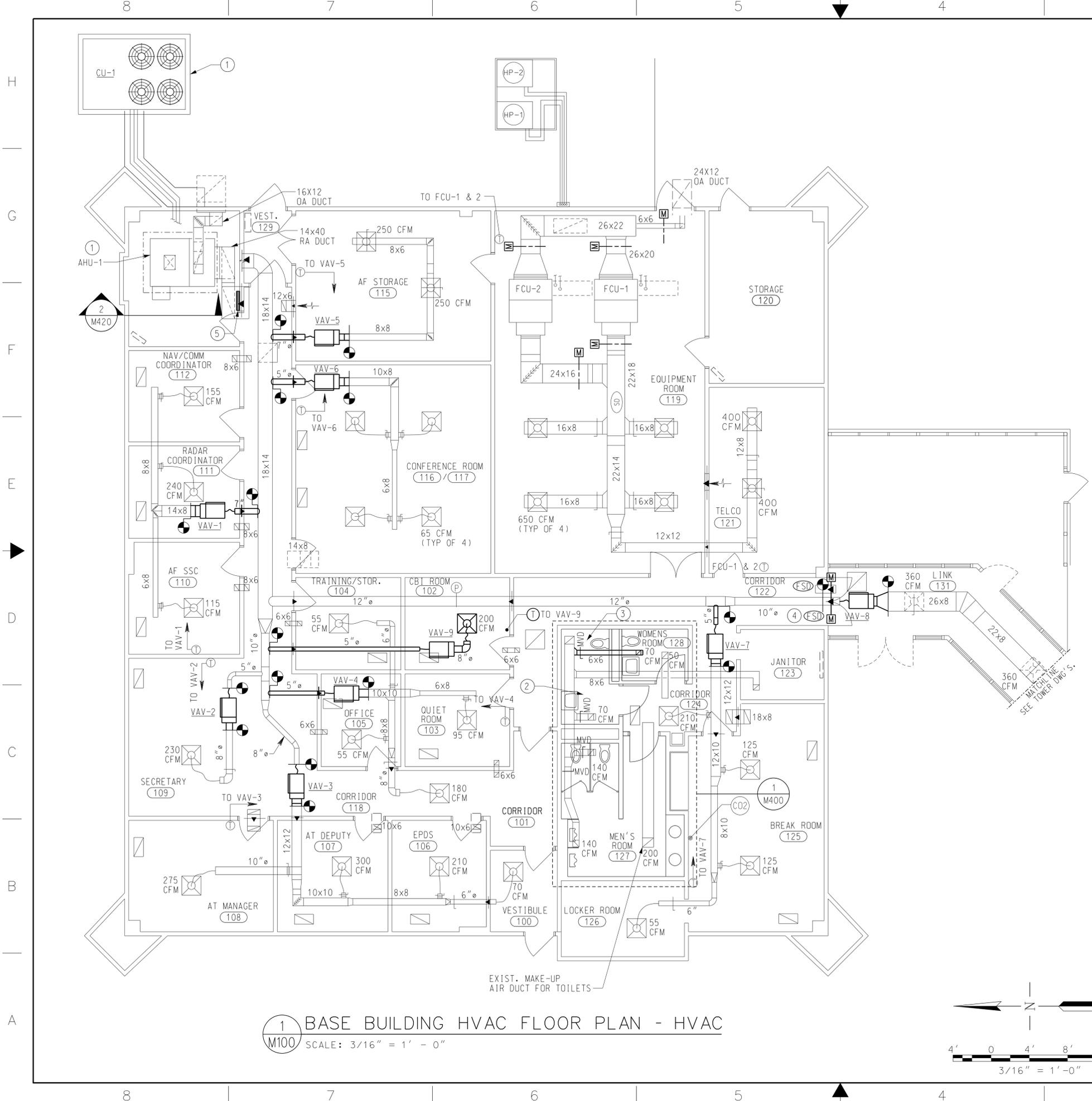
- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS (DO NOT SCALE FOR LOCATIONS). IT IS INTENDED THAT A COMPLETE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM (HVAC) BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS. THE CONTRACTOR SHALL 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.
- REFER TO EACH DRAWING FOR NOTES SPECIFIC TO THAT DRAWING SHEET.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH SQUARE TO ROUND TRANSITIONS, WITH MINIMUM PRESSURE DROP AND WITHOUT LEAKS.
- 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.
- 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.
- 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.
- 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.
- PROVIDE THERMOSTATS AND/OR HUMIDISTATS WHERE SHOWN ON THE DRAWINGS. MOUNT DEVICES CENTERED 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- 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.
- 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.
- INSTALL DUCTWORK AS HIGH AS POSSIBLE ABOVE CEILING TO AVOID CONFLICTS WITH CABLE TRAY, ETC.
- 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

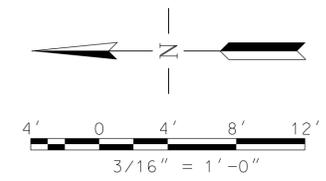
- MINIMIZING HVAC EQUIPMENT DOWNTIME IS CRITICAL FOR THE PROPER OPERATION OF FAA EQUIPMENT. COORDINATE PHASING WITH THE FAA CONTRACTING OFFICER REPRESENTATIVE (COR). FOR MEASURES TO BE TAKEN PRIOR TO EQUIPMENT SHUT DOWN. THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING AND/OR COOLING SYSTEM DURING CONSTRUCTION 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°.
- CONTRACTOR SHALL SUPPLY EMERGENCY SERVICE RESPONSE FOR TEMPORARY SYSTEMS. CONTRACTOR SHALL GUARANTEE 4 HOUR RESPONSE TIME FROM NOTIFICATION TO ARRIVAL OF SERVICE PERSONNEL.
- 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.
- 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.
- 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

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
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	JUS	ISSUED BY	DATE	JCN	
DRAWN	CRK	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	
CHECKED	JUS		DRAWING NO	FLD-D-TRACO-M000	
WW JOB NUMBER: 219075.00					



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



NOTES

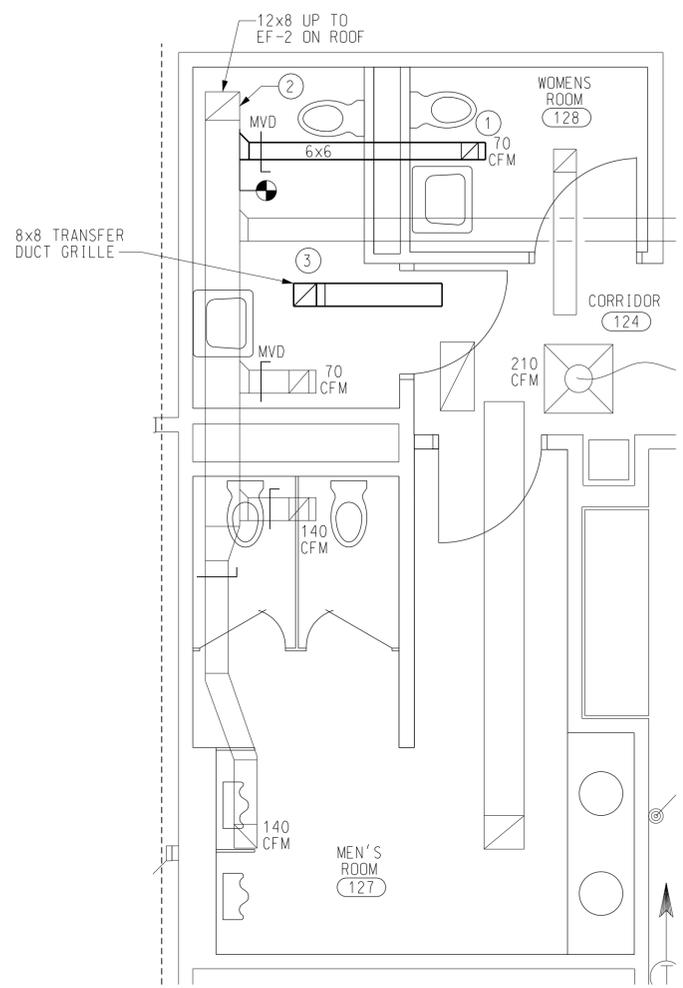
- ① AHU-1 AND CU-1 EXISTING TO REMAIN. INTEGRATE WITH NEW DDC SYSTEM.
- ② PROVIDE MVD'S AT BATHROOM GRILLE TAKEOFFS AS SHOWN ON PLANS. PROVIDE ACCESS DOOR BENEATH IF ABOVE HARD CEILING IN LIEU OF MVD'S AT TAKEOFFS. DAMPERS AT EACH EXHAUST GRILLE ARE ACCEPTABLE.
- ③ ADD TAKE-OFF WITH MVD FOR EXHAUST IN 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

		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:
DESIGNED: JUS	ISSUED BY:	DATE: JAN 31, 2020	JCN: 1508912	APPROVER'S TITLE - MANAGER
DRAWN: CRK	ATLANTA TERMINAL ENGINEERING CENTER	CHECKED: JUS	DRAWING NO:	REV:
WILEY WILSON 5901 Peachtree Dunwoody Rd. Bldg. C, Ste 515 Atlanta, Georgia 30328-6055 678.320.1888 wileywilson.com		WW JOB NUMBER: 219075.00		
		FLL-D-TRACO-M100		

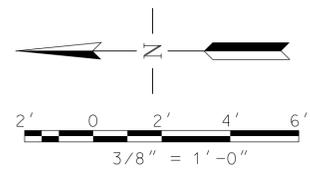


- NOTES**
- ① PROVIDE NEW RAG. MODEL BASIS OF DESIGN SHALL BE TITUS, 45F WITH A 6x6 NECK.
 - ② SEE DETAIL 4/M600 FOR INSTALLATION OF EF-2.
 - ③ PROVIDE NEW TRANSFER GRILLE. MODEL BASIS OF DESIGN SHALL BE TITUS, 45F WITH 8x8 NECK.

- 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.

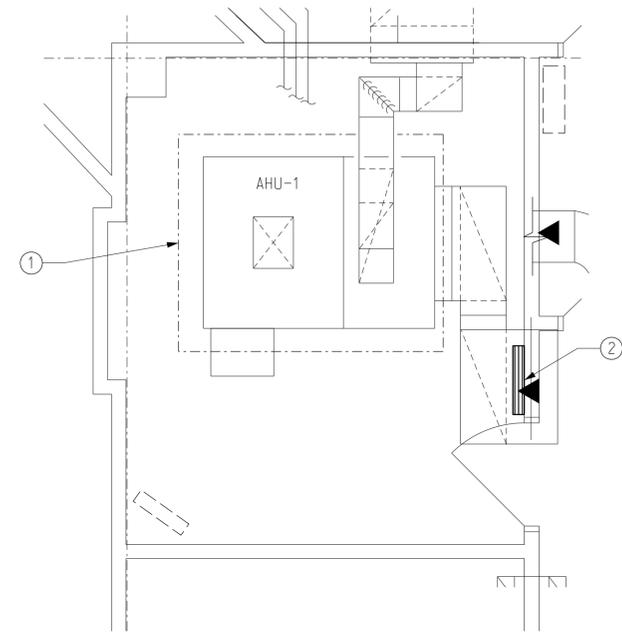
1 ENLARGED RESTROOM - HVAC PLAN
 M400 SCALE: 3/8" = 1' - 0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
					
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS MECHANICAL ENLARGED RESTROOM HVAC PLAN					
FT LAUDERDALE (INTERNATIONAL)				FL	
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
REVIEWED BY		SUBMITTED BY		APPROVED BY	
DESIGNED		ISSUED BY		DATE	
DRAWN		ATLANTA TERMINAL ENGINEERING CENTER		JCN 1508912	
CHECKED				DRAWING NO	
				FLL-D-TRACO-M400	
WILEY WILSON 5901 Peachtree Dunwoody Rd. Bldg. C, Ste 515 Atlanta, Georgia 30328-6055 678.320.1888 wileywilson.com WW JOB NUMBER: 219075.00					

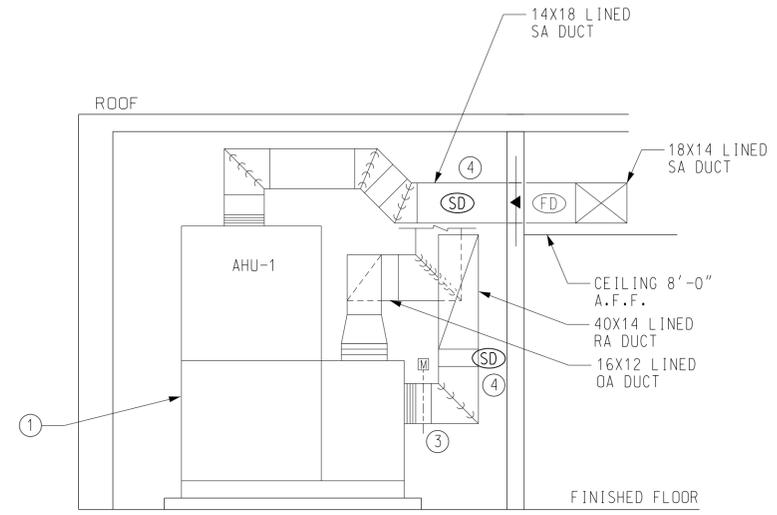


- ### NOTES
- ① EXISTING AIR HANDLING UNIT TO REMAIN. INTEGRATE WITH NEW DDC SYSTEM.
 - ② NEW DDC CONTROL PANEL.
 - ③ PROVIDE NEW MOTOR OPERATED DAMPER (MOD) AND INTEGRATE WITH NEW DDC SYSTEM.
 - ④ PROVIDE NEW DUCT-MOUNTED SMOKE DETECTORS. INTEGRATED WITH NEW DDC SYSTEM TO STOP AHU-1 SUPPLY FAN UPON 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.



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



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

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

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

**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
DRAWN	CRK	DATE JAN 31, 2020
CHECKED	MDS	JCN 1508912
ATLANTA TERMINAL ENGINEERING CENTER		DRAWING NO
		FL-L-D-TRACO-M420

REV

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678.320.1888
wileywilson.com

WW JOB NUMBER: 219075.00

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 - XT1-42x60	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. 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
	(MAX. CFM)	(MIN. CFM)										
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

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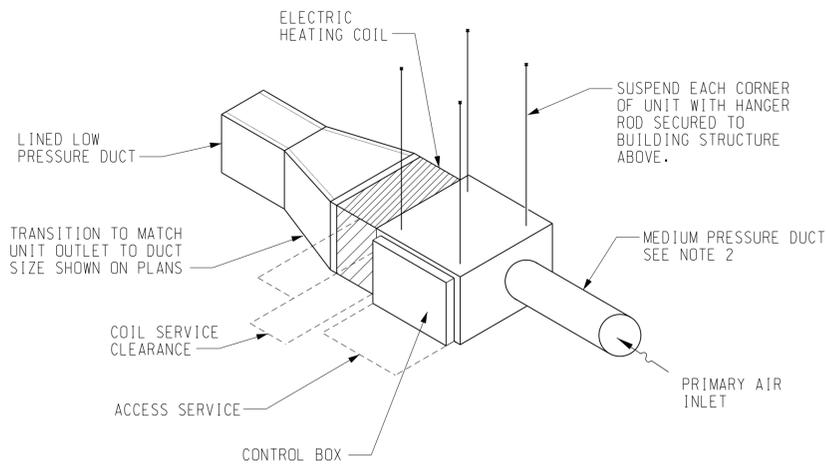
**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

**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	DATE JAN 31, 2020 JCN 1508912
DRAWN CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO
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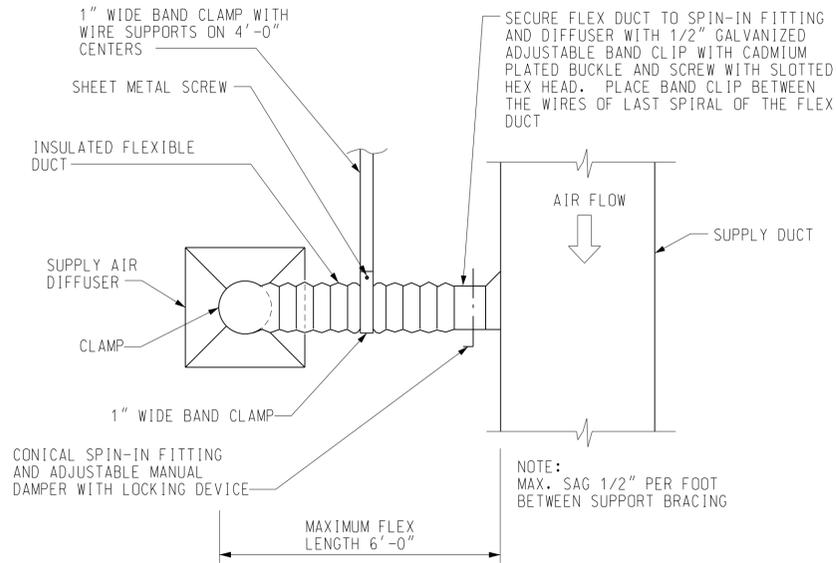
FLL-D-TRACO-M500



NOTES:

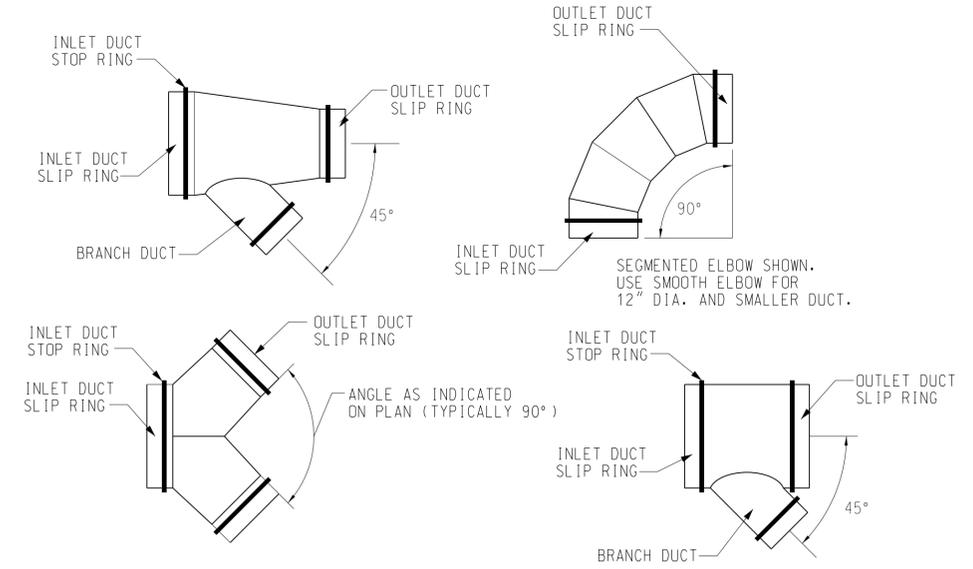
1. VERIFY AND PROVIDE ACCESS SPACE, COIL AND CONTROL BOX LOCATIONS WITH SELECTED MANUFACTURER.
2. MINIMUM 3 DIAMETERS OF STRAIGHT-RUN DUCTWORK TO THE INLET CONNECTION. THE STRAIGHT-RUN DUCTWORK SHALL BE THE SAME DIAMETER AS THE AIR VALVE INLET CONNECTION AS INDICATED ON THE EQUIPMENT SCHEDULE.

1 VARIABLE AIR VOLUME TERMINAL UNIT DETAIL
M600 NOT TO SCALE



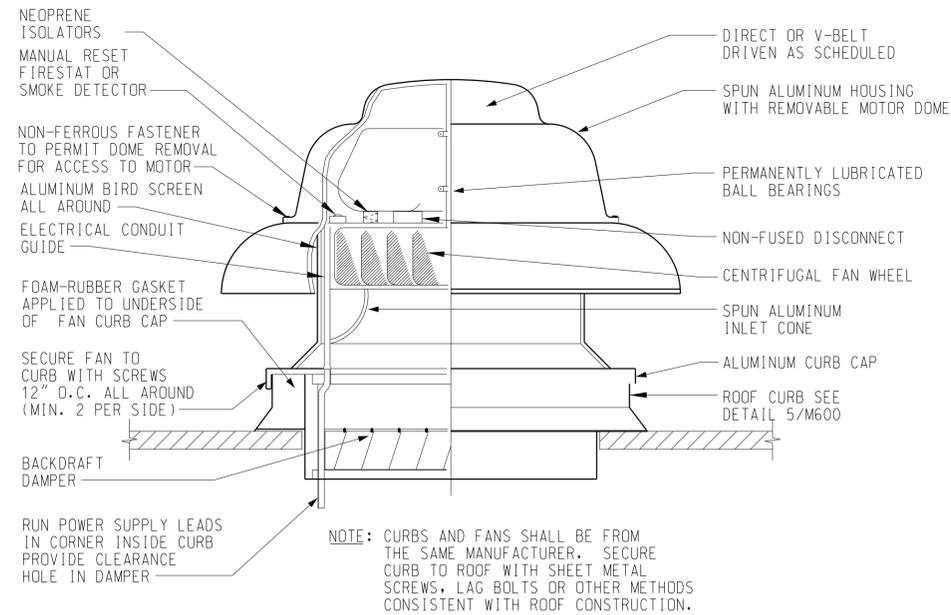
NOTE:
MAX. SAG 1/2" PER FOOT BETWEEN SUPPORT BRACING

2 DIFFUSER CONNECTION DETAIL
M600 NOT TO SCALE



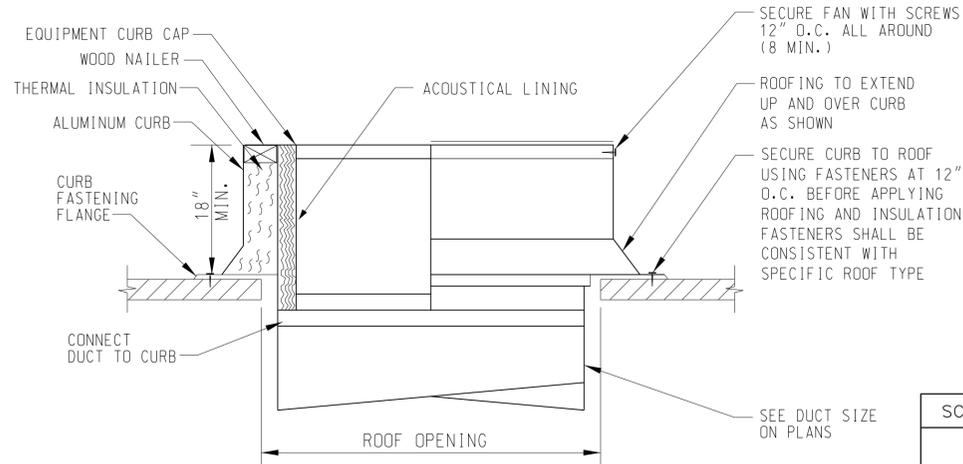
INSTALLATION - APPLY SEALANT TO COAT THE SLIP RING FROM THE STOP RING TO THE END. INSERT THE COATED SLIP RING INTO THE DUCT UNTIL THE DUCT CONTACTS THE STOP RING. SECURE WITH SHEETMETAL SCREWS 8" ON CENTER (MINIMUM 3 EVENLY SPACED).

3 MEDIUM PRESSURE DUCT DETAIL
M600 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 ROOF-MOUNTED CENTRIFUGAL EXHAUST FAN DETAIL
M600 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.

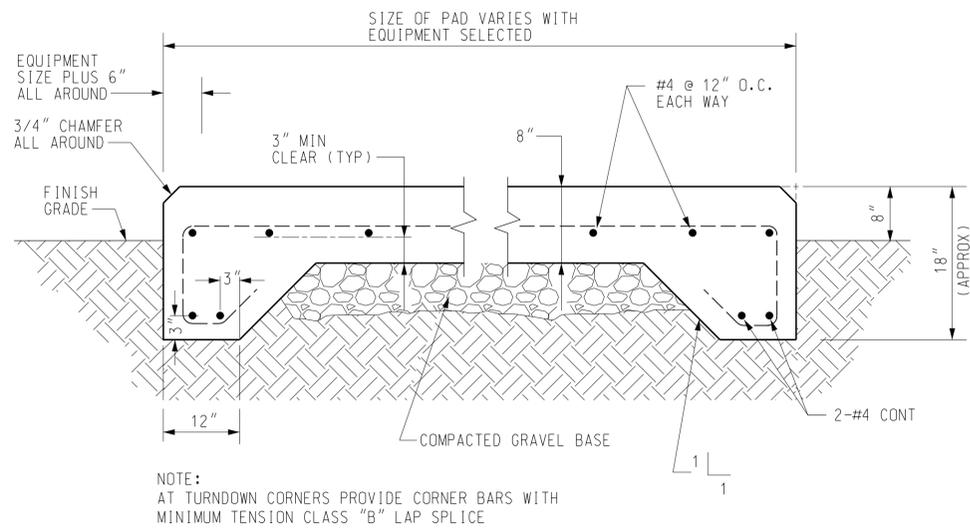
5 ROOF CURB DETAIL
M600 NOT TO SCALE

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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						
REVIEWED BY		SUBMITTED BY		APPROVED BY		
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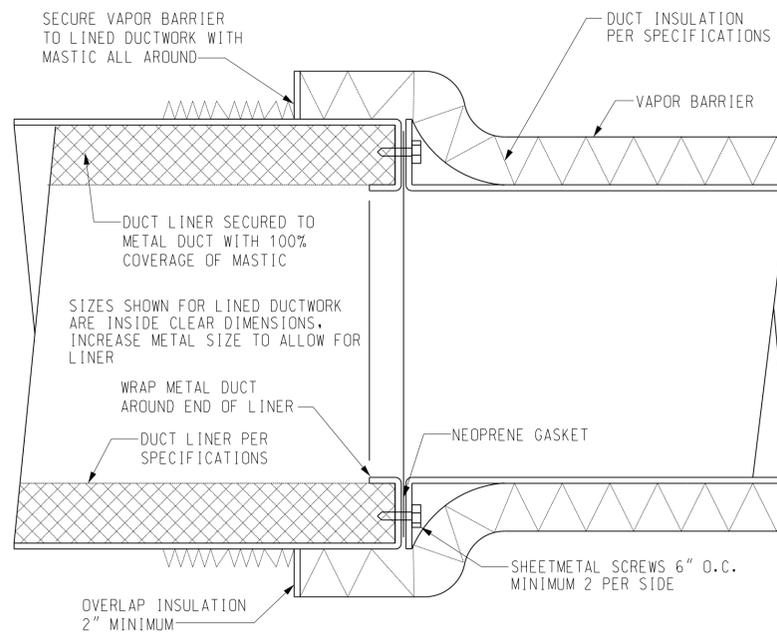


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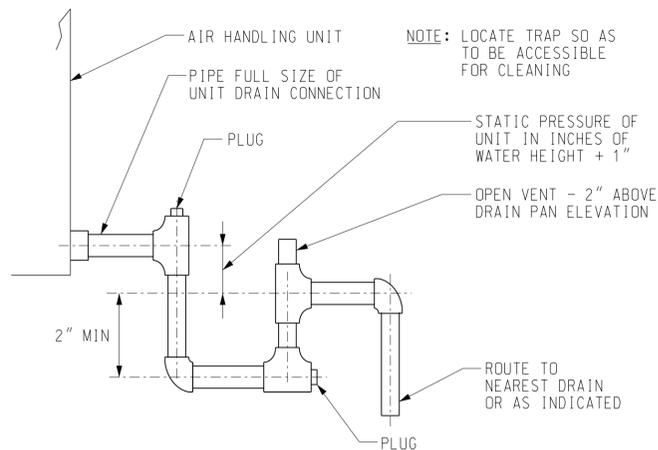
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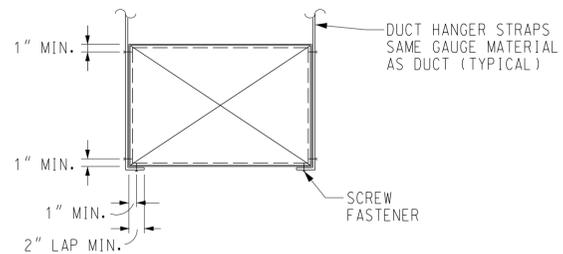
1 EXTERIOR CONCRETE EQUIPMENT PAD DETAIL
M601 NOT TO SCALE



2 DUCT LINER TERMINATION DETAIL
M601 NOT TO SCALE



3 CONDENSATE TRAP DETAIL
M601 NOT TO SCALE



4 DUCT HANGER DETAIL
M601 NOT TO SCALE

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

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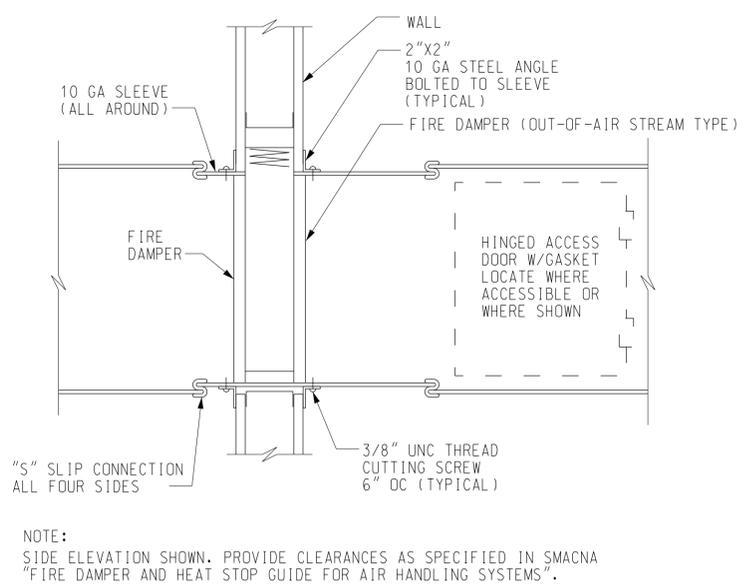
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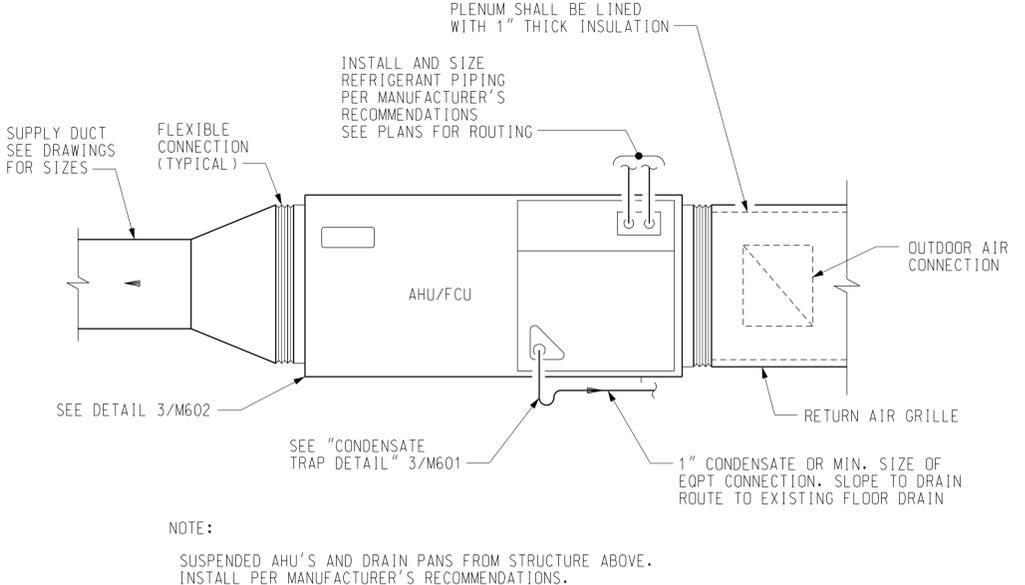
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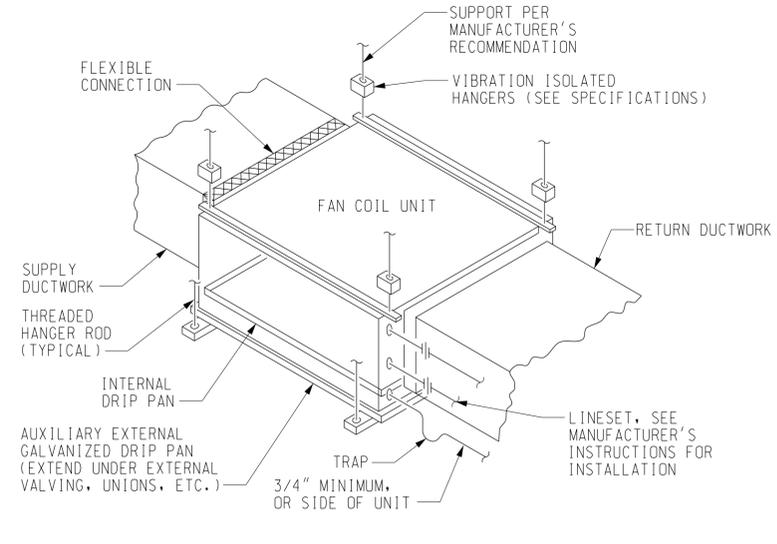
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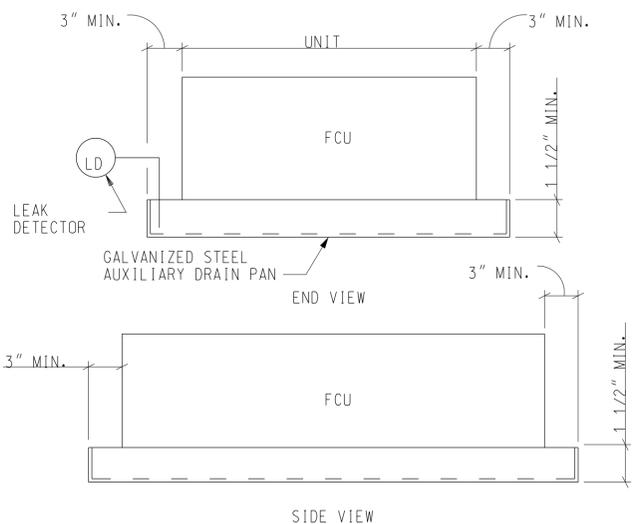
1 FIRE DAMPER DETAIL
M602 NOT TO SCALE



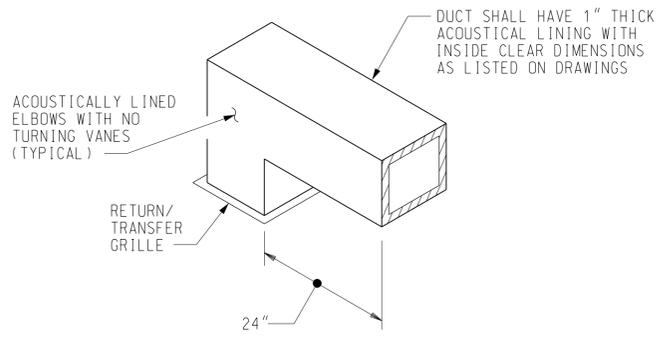
2 TYPICAL HORIZONTAL AHU/FCU DETAIL
M602 NOT TO SCALE



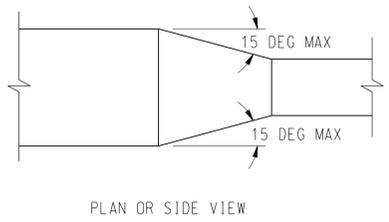
3 FAN COIL UNIT SUPPORT DETAIL
M602 NOT TO SCALE



4 DRAIN PAN DETAIL
M602 NOT TO SCALE



5 RETURN GRILLE DUCT DETAIL
M602 NOT TO SCALE



6 TYPICAL DUCTWORK TRANSITION DETAIL
M602 NOT TO SCALE

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REVIEWED BY DESIGNED JUS DRAWN CRK CHECKED JUS		SUBMITTED BY SUBMITTER'S TITLE - CIVIL ENGINEER ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER		APPROVED BY APPROVER'S TITLE - MANAGER DATE JAN 31, 2020 JCN 1508912 DRAWING NO FLL-D-TRACO-M602	

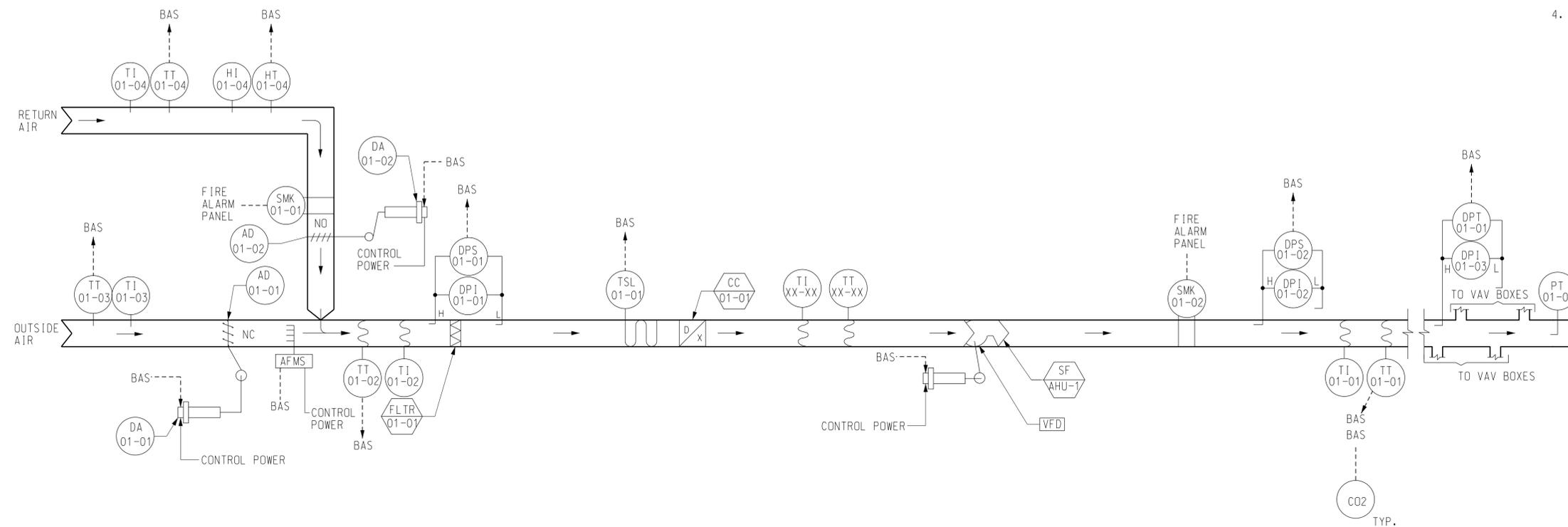
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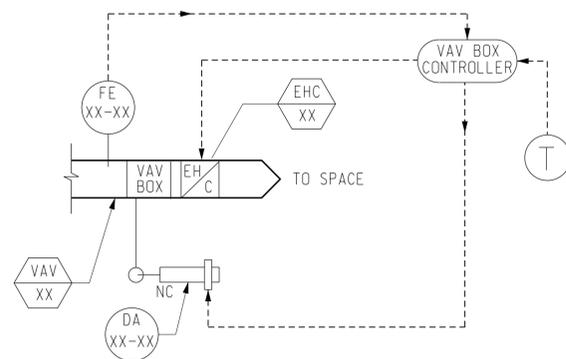
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NOTES

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.



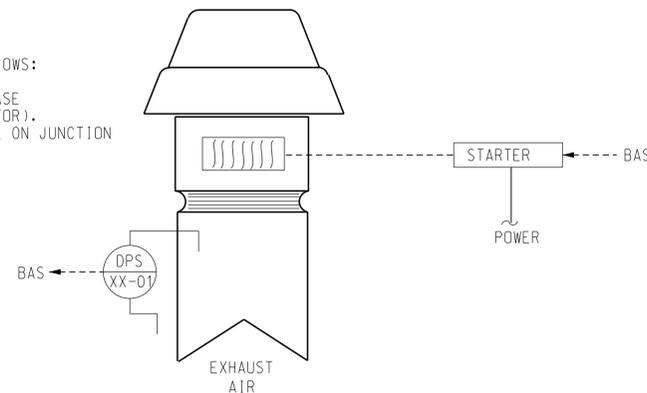
1 CONTROL SYSTEM DIAGRAM - AHU-1
M800 NOT TO SCALE



2 CONTROL DIAGRAM - TERMINAL UNIT (VAV)
M800 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 CONTROL DIAGRAM - EXHAUST FANS
M800 NOT TO SCALE

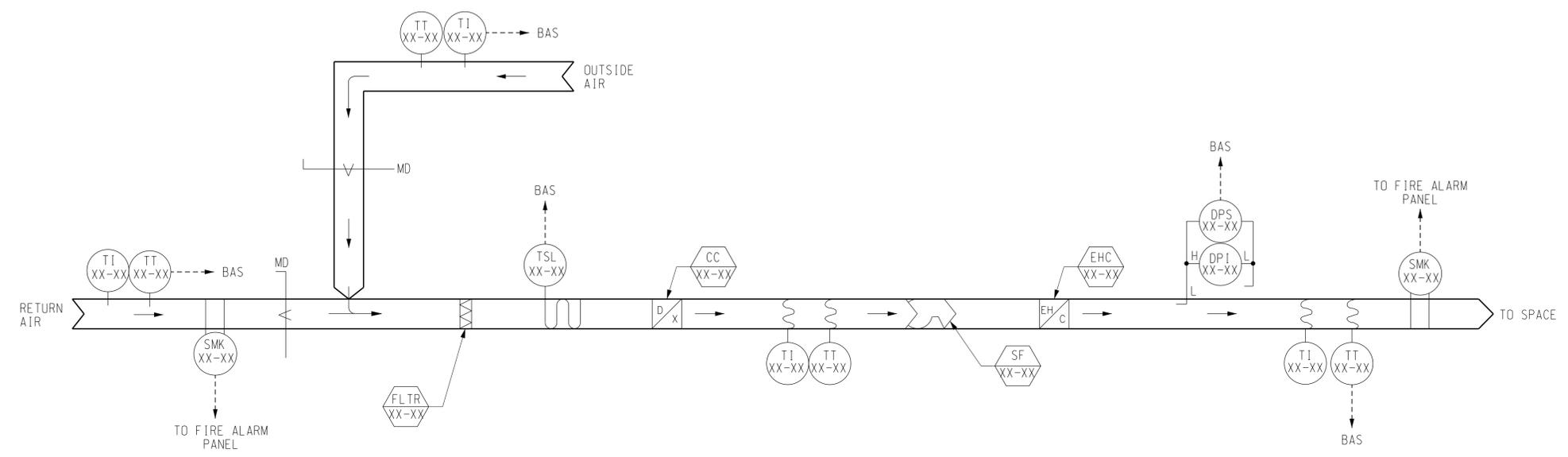
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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS MECHANICAL CONTROL SYSTEM DIAGRAM AHU-1, VAV & EXHAUST FANS								
FT LAUDERDALE (INTERNATIONAL) FL			SUBMITTED BY			APPROVED BY		
DESIGNED JJS			ISSUED BY			DATE JAN 31, 2020 JCN 1508912		
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- NOTES**
- SEE DRAWING TRACO-M000 FOR HVAC LEGEND AND GENERAL NOTES.
 - THE SMOKE DETECTOR AND FIRE ALARM CONTROL MODULES SHALL BE FURNISHED AND INSTALLED BY FIRE ALARM CONTRACTOR.
 - INSTRUMENT NUMBER ASSIGNMENTS ARE OMITTED WHEN DIAGRAMS APPLY TO MULTIPLE SYSTEMS/ EQUIPMENT. CONTRACTOR SHALL ASSIGN THEM.



1 CONTROL SYSTEM DIAGRAM - FCU-1 AND FCU-2
M801 NOT TO SCALE

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS MECHANICAL CONTROL SYSTEM DIAGRAM FCU-1 AND FCU-2					
FT LAUDERDALE		(INTERNATIONAL)		FL	
REVIEWED BY	SUBMITTED BY	APPROVED BY			
SUBMITTER'S TITLE - CIVIL ENGINEER		APPROVER'S TITLE - MANAGER			
DESIGNED	JJS	ISSUED BY	DATE	JCN	1508912
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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. 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			
	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)			
AHU-1/CU-1															
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						X		
EXISTING EXHAUST FAN							X					X			

INPUT - OUTPUT SUMMARY

POINT DESCRIPTION	INPUTS							OUTPUTS							
	ANALOG				DIGITAL			ANALOG				DIGITAL			
	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)			
FCU-1/2 HP-1/2															
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			
	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			
VAV BOXES (VAV-1 THRU VAV-9)															
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. PAGE 0F



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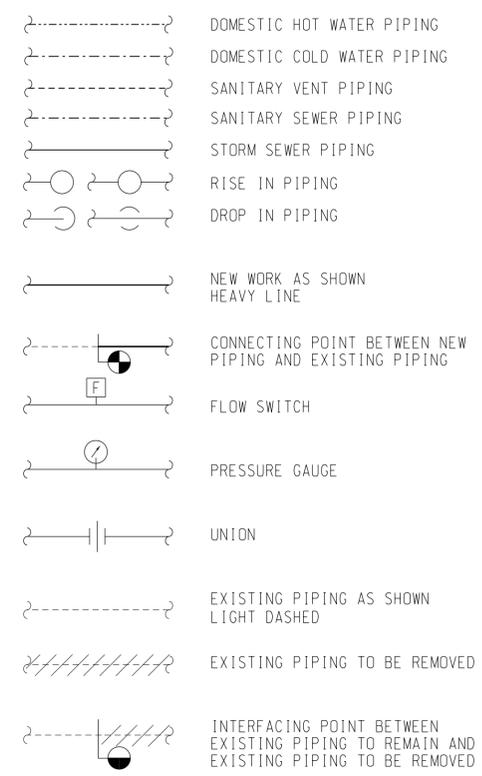
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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
DESIGNED	JJS	ISSUED BY
DRAWN	CRK	DATE
CHECKED	JJS	JAN 31, 2020
		JCN 1508912
		DRAWING NO
		FLD-D-TRACO-M802

LEGEND

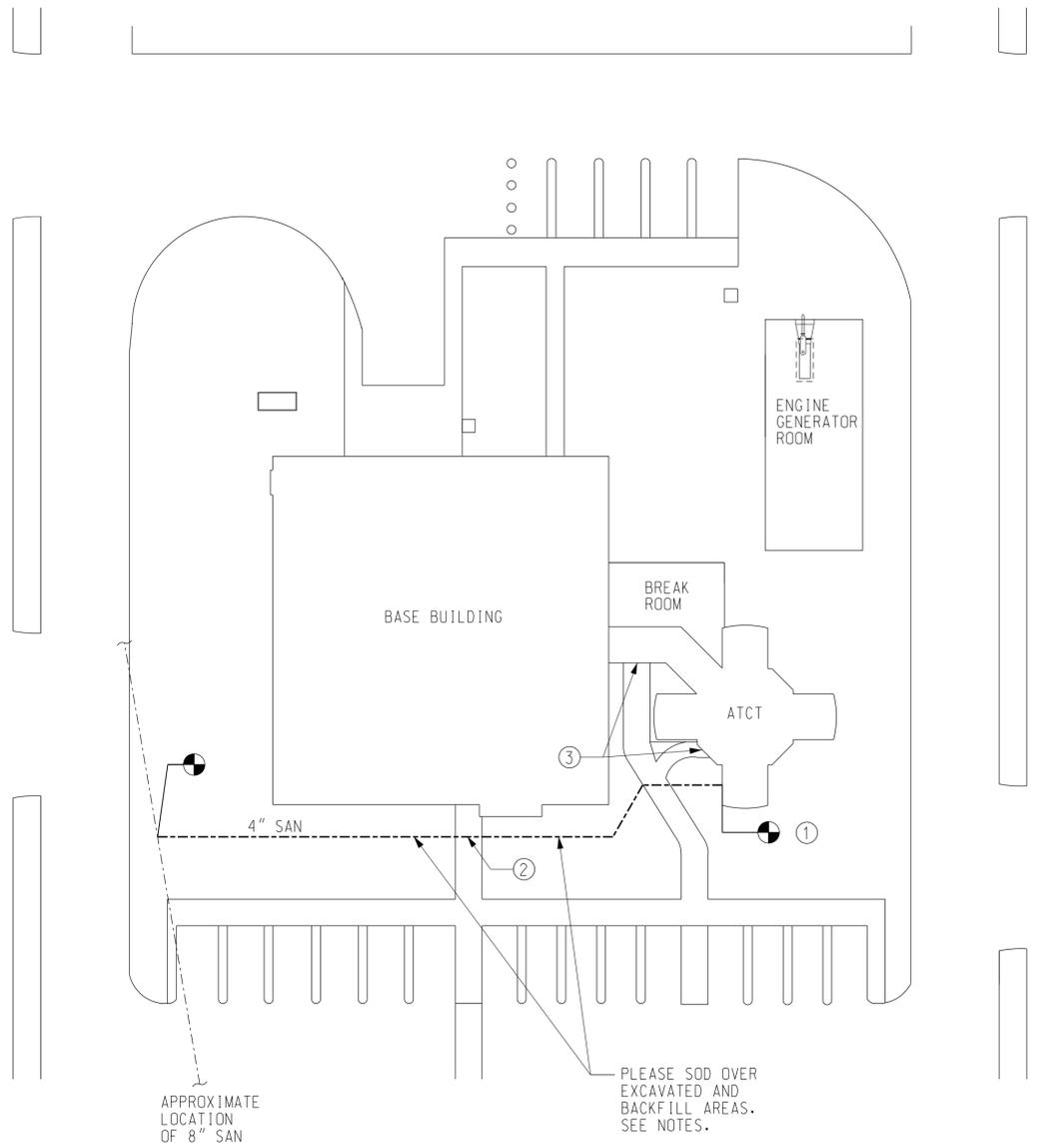


PLUMBING GENERAL NOTES

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 CEILING PER SPECIFICATIONS.
11. TEST DRINKING WATER AFTER COMPLETION OF PLUMBING WORK IN ACCORDANCE WITH SPECIFICATIONS.

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				08/05/2020 APPROVED DATE	ISSUE FOR CONSTRUCTION DESCRIPTION
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				JCN	REVLINE DATE
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS PLUMBING SYMBOLS AND GENERAL NOTES				JCN	REVLINE DATE
FT LAUDERDALE (INTERNATIONAL) FL				JCN	REVLINE DATE
REVIEWED BY DESIGNED DRAWN CHECKED		SUBMITTED BY SUBMITTER'S TITLE - CIVIL ENGINEER ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER		APPROVED BY APPROVER'S TITLE - MANAGER DATE JAN 31, 2020 JCN 1508912 DRAWING NO	
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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

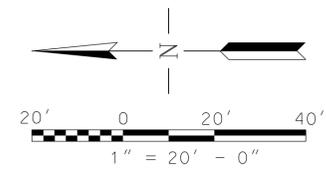
- A. SEE TRACO-P000 FOR GENERAL NOTES AND SYMBOLS. SEE TOWB-G010 AND TOWB-G011 FOR ABBREVIATIONS.

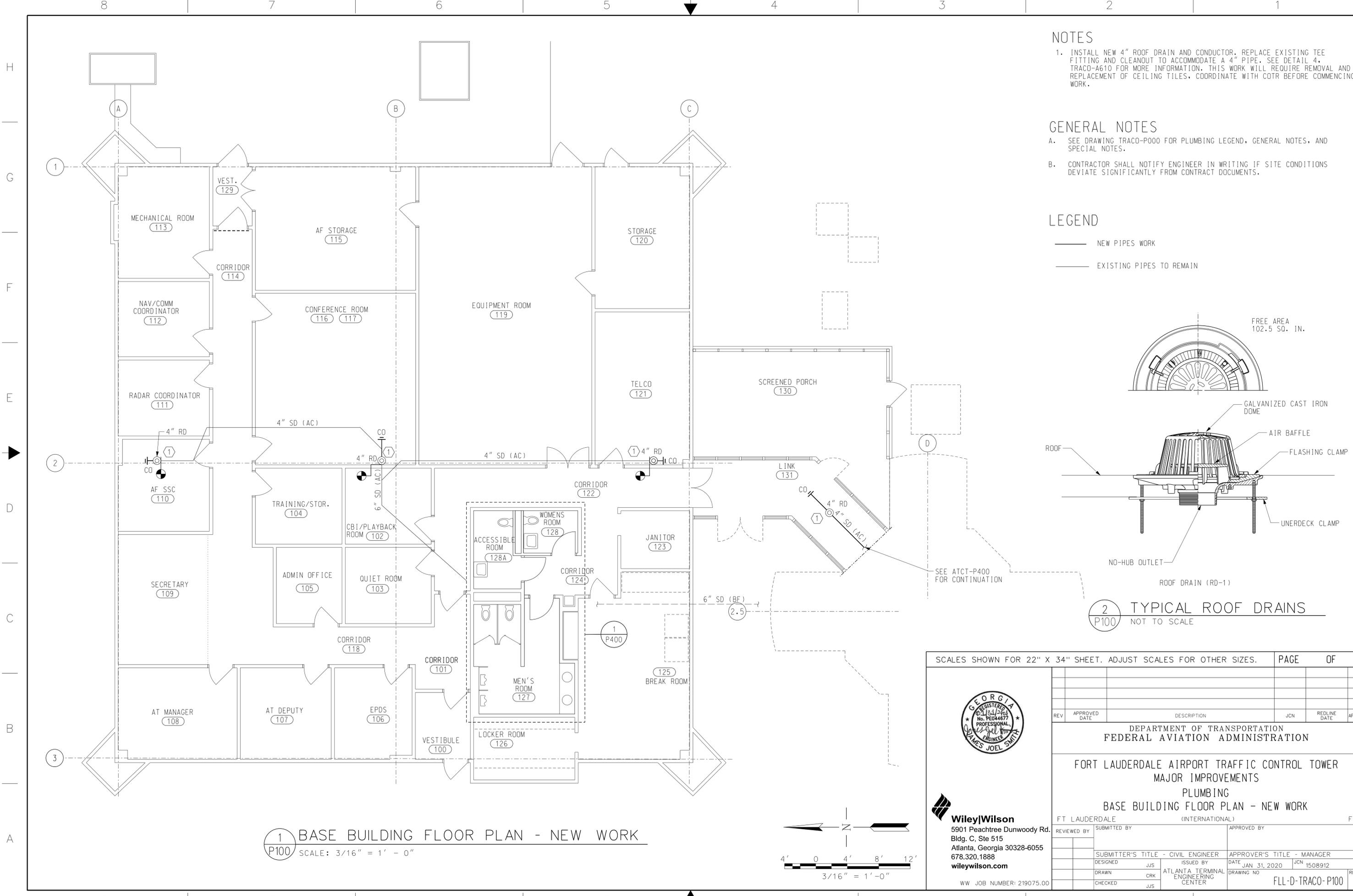
SOD REPAIR NOTES

- 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.

1 PLUMBING SITE PLAN
 P050 SCALE: 1" = 20'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
	DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS PLUMBING SITE PLAN		
FT LAUDERDALE (INTERNATIONAL) FL					
REVIEWED BY DESIGNED DRAWN CHECKED	SUBMITTED BY SUBMITTER'S TITLE - CIVIL ENGINEER ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER	APPROVED BY APPROVER'S TITLE - MANAGER DATE JAN 31, 2020 JCN 1508912			
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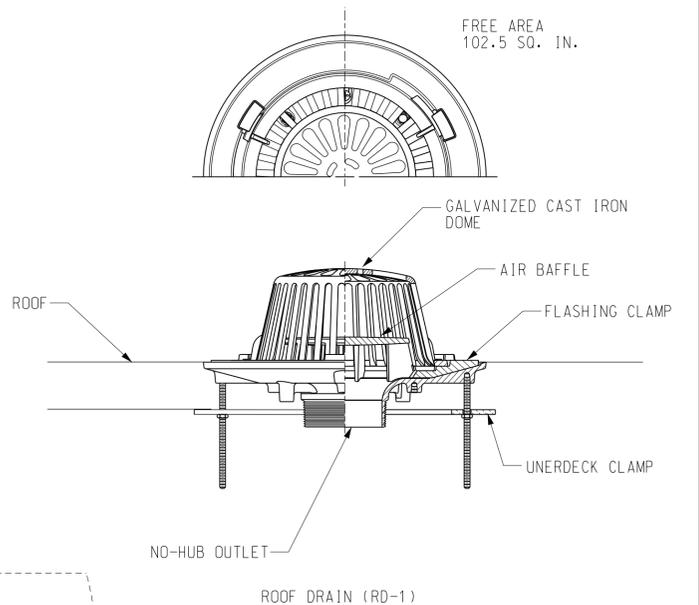
- INSTALL NEW 4" ROOF DRAIN AND CONDUCTOR. REPLACE EXISTING TEE FITTING AND CLEANOUT TO ACCOMMODATE A 4" PIPE. SEE DETAIL 4, TRACO-A610 FOR MORE INFORMATION. THIS WORK WILL REQUIRE REMOVAL AND REPLACEMENT OF CEILING TILES. COORDINATE WITH COTR BEFORE COMMENCING WORK.

GENERAL NOTES

- SEE DRAWING TRACO-P000 FOR PLUMBING LEGEND, GENERAL NOTES, AND SPECIAL NOTES.
- CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF SITE CONDITIONS DEVIATE SIGNIFICANTLY FROM CONTRACT DOCUMENTS.

LEGEND

- NEW PIPES WORK
- EXISTING PIPES TO REMAIN



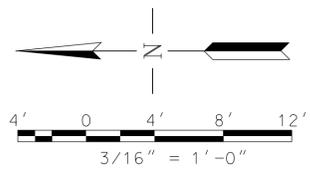
1 BASE BUILDING FLOOR PLAN - NEW WORK
 P100 SCALE: 3/16" = 1' - 0"

2 TYPICAL ROOF DRAINS
 P100 NOT TO SCALE

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 PLUMBING BASE BUILDING FLOOR PLAN - NEW WORK FT LAUDERDALE (INTERNATIONAL) FL					
REVIEWED BY		SUBMITTED BY		APPROVED BY	
SUBMITTER'S TITLE - CIVIL ENGINEER			APPROVER'S TITLE - MANAGER		
DESIGNED	JUS	ISSUED BY	DATE	JCN	1508912
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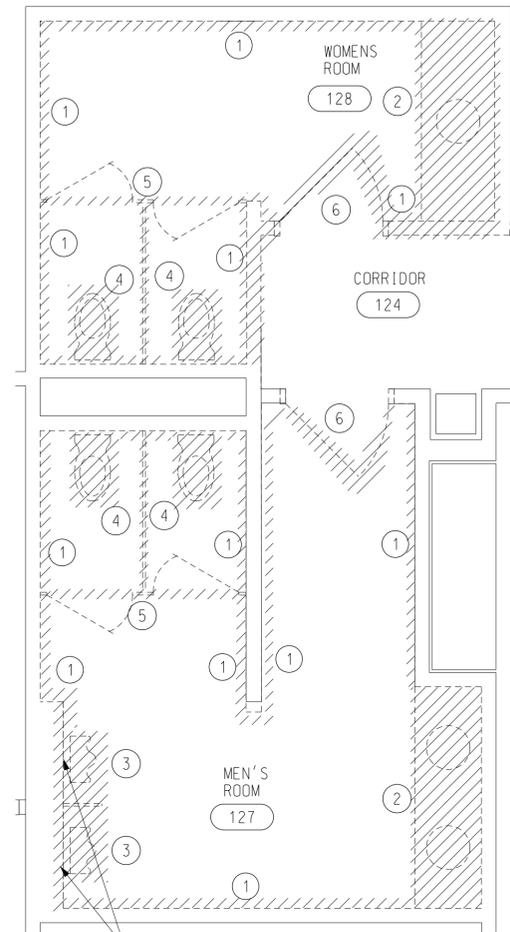


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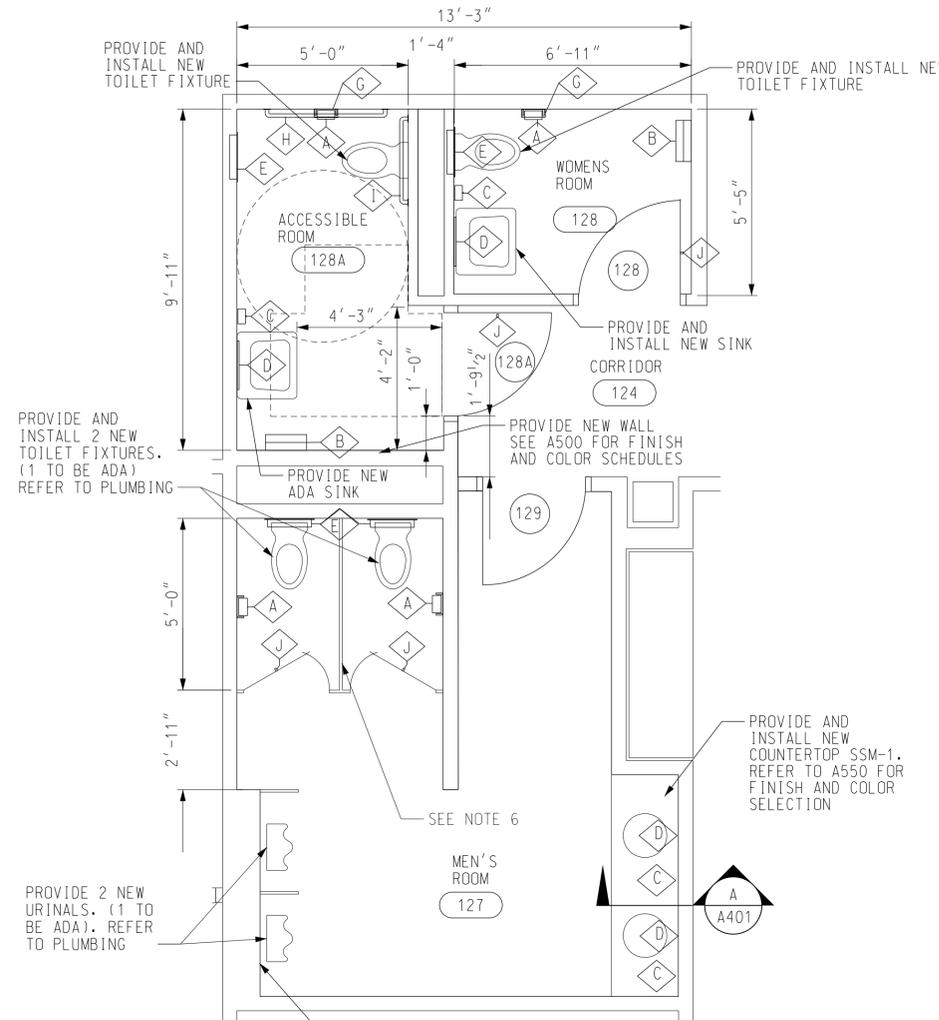
NOTES

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 DOORS. 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.

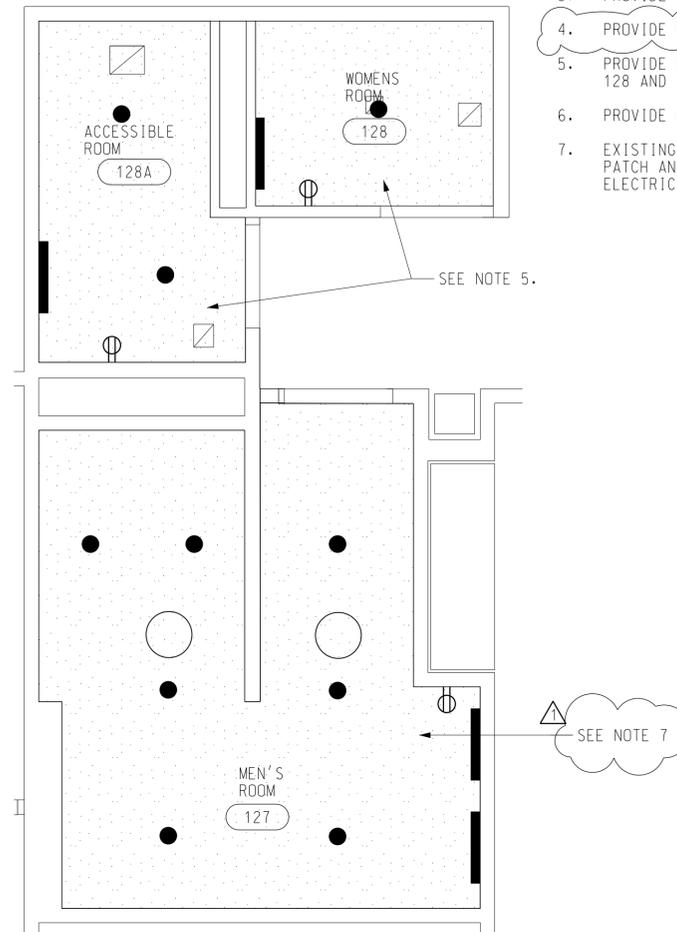
H
G
F
E
D
C
B
A



1 RESTROOM DEMO PLAN
 A400 SCALE: 3/8" = 1' - 0"



2 RESTROOM NEW WORK PLAN
 A400 SCALE: 3/8" = 1' - 0"



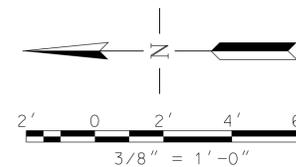
3 RESTROOM NEW RCP
 A400 SCALE: 3/8" = 1' - 0"

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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Δ	08/05/2020	ISSUE FOR CONSTRUCTION			

DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION

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

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
CHECKED NXE		FLL-D-TRACO-A400

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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' DESIGNATES WEATHER PROOFING. PROVIDE WITH IN-USE WEATHER PROTECTIVE COVERS.
		DUPLEX HEAVY DUTY RECEPTACLE, 20A, 125V, FLOOR MOUNTED
	+18"	SPECIAL PURPOSE OUTLET NEMA RATING INDICATED
	+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

OCCUPANCY SENSOR, DUAL TECHNOLOGY

PULL BOXES / JUNCTION BOXES

SYMBOL	DESCRIPTION
	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"	UNFUSED DISCONNECT SWITCH, WHERE 60/3 INDICATES NEMA FRAME SIZE/NUMBER OF POLES
	+60"	FUSED DISCONNECT SWITCH, WHERE 60/40/3 INDICATES NEMA FRAME SIZE/FUSE SIZE/NUMBER OF POLES
		MOTOR

MISCELLANEOUS

SYMBOL	DESCRIPTION
	TRANSFORMER

PANELBOARDS AND CABINETS

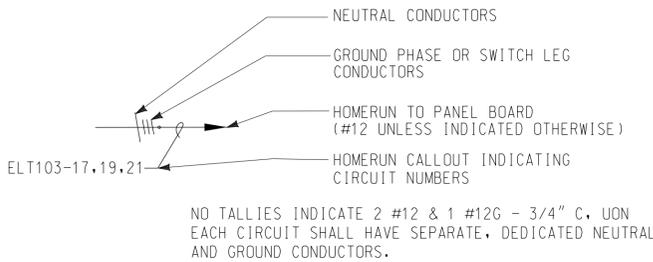
SYMBOL	MOUNTING HEIGHT, AFF	DESCRIPTION
	+78" (TOP)	3 PHASE, 4 WIRE PANELBOARD, SURFACE MOUNTED, 208/120V, ESSENTIAL OR CRITICAL

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
	FLEXIBLE CONDUIT
	LT = LIQUID TIGHT
	CABLE TRAY
	ESSENTIAL WIREWAY (4" SQUARE DUCT)
	CRITICAL WIREWAY (4" SQUARE DUCT)
	DUCTBANK
	COMMUNICATION MANHOLE
	ELECTRICAL (POWER) MANHOLE
	CABLE MARKER



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)
	GROUND PLATE SUBSCRIPT INDICATES: M = MULTIPoint GROUND B = ANTENNA LIGHTNING BULKHEAD PLATE
	BARE COPPER GROUNDING CONDUCTOR UNDERGRADE/IN SLAB
	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 SCNCE	KUZCO LIGHTING	CHARLOTTE SERIES: 601464CHLED	WALL	120	29.5	-	LED DRIVER	CONNECT TO EXISTING CIRCUIT. MOUNT AT 7'-0" AFF TO TOP OF WALL SCNCE
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: OLFM-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

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

DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
 MAJOR IMPROVEMENTS
 ELECTRICAL
 LEGEND AND SYMBOLS

FT LAUDERDALE (INTERNATIONAL) FL

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

REVIEWED BY: [Signature] SUBMITTED BY: [Signature] APPROVED BY: [Signature]

DESIGNED: JMC ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER DATE: JAN 31, 2020 JCN: 1508912

DRAWN: CRK CHECKED: MAK

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WW JOB NUMBER: 219075.00

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FILES DATE: 1/31/2020

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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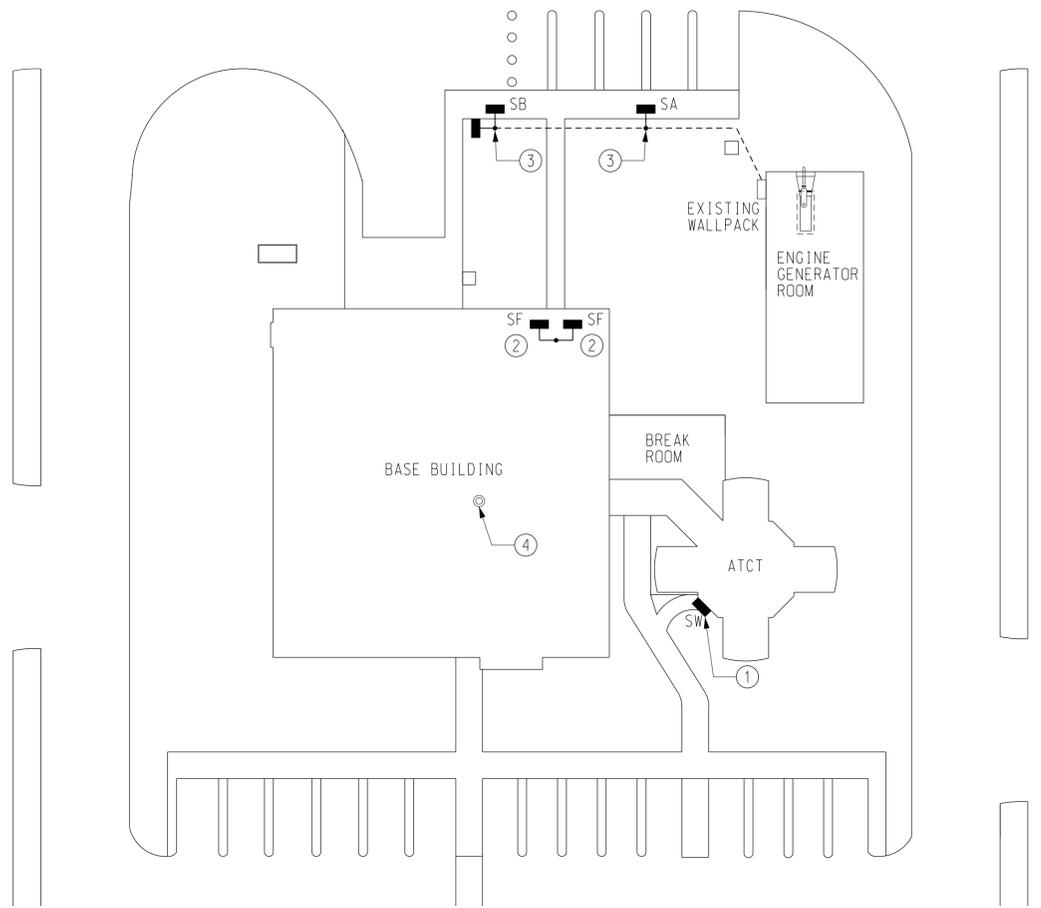
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SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
	DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ELECTRICAL GENERAL NOTES		
 WileyWilson 5901 Peachtree Dunwoody Rd. Bldg. C, Ste 515 Atlanta, Georgia 30328-6055 678.320.1888 wileywilson.com		FT LAUDERDALE (INTERNATIONAL) FL			
REVIEWED BY	SUBMITTED BY		APPROVED BY		
DESIGNED	JMC	ISSUED BY		DATE	JCN
DRAWN	JMC	ATLANTA TERMINAL ENGINEERING CENTER		JAN 31, 2020	1508912
CHECKED	MAK	DRAWING NO		FLL-D-TRACO-E001	
WW JOB NUMBER: 219075.00					

FILES BUILDS ENHANCES

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GENERAL NOTES

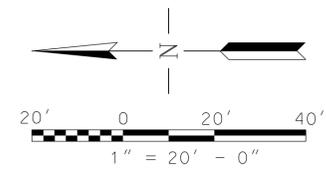
- A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN IS LIGHT SOLID LINE.
- B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

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"Ø. 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.

1 ELECTRICAL SITE PLAN
E050 SCALE: 1" = 20'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
					
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ELECTRICAL SITE PLAN					
FT LAUDERDALE (INTERNATIONAL) FL					
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
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	
CHECKED MRK				FLL-D-TRACO-E050	
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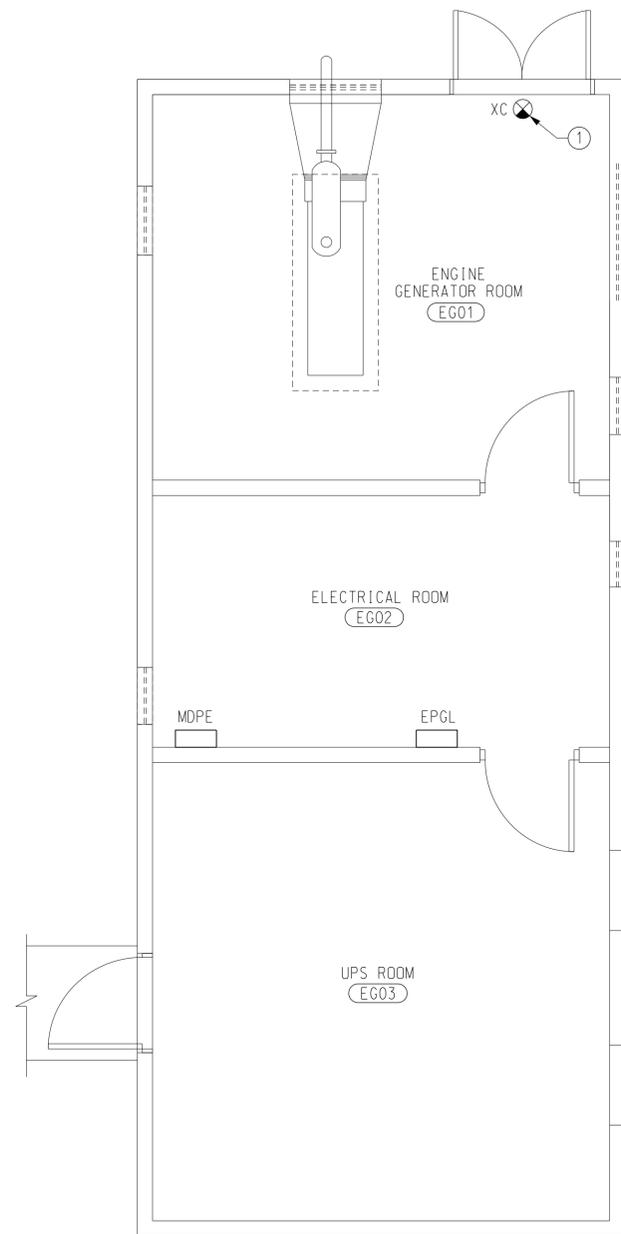
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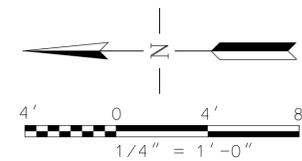
GENERAL NOTES

- 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.

① GENERATOR BUILDING PLAN
 E060 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
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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		DATE JAN 31, 2020 JCN 1508912	
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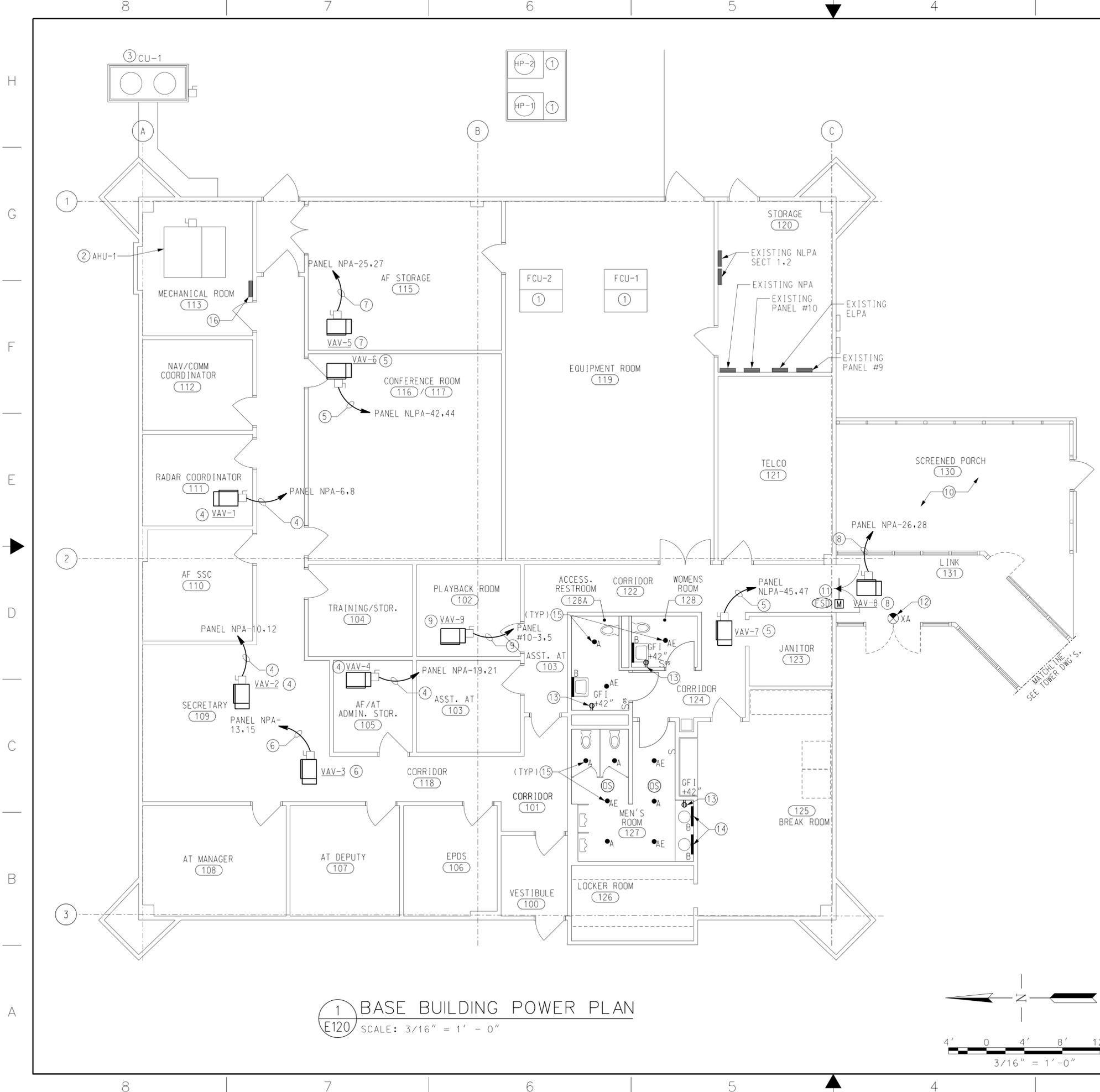
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- ### KEY NOTES
- ① EXISTING MECHANICAL EQUIPMENT TO REMAIN.
 - ② EXISTING MECHANICAL UNIT AHU-1.
 - ③ EXISTING MECHANICAL UNIT CU-1.
 - ④ NEW MECHANICAL VAV UNIT. FACTORY INSTALLED INTEGRAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE 20A, 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 GF1 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 0F

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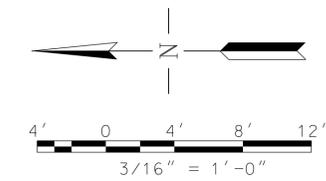
**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

**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	ISSUED BY	DATE JAN 31, 2020 JCN 1508912
DRAWN CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO
CHECKED MAK		REV

FLD-D-TRACO-E120

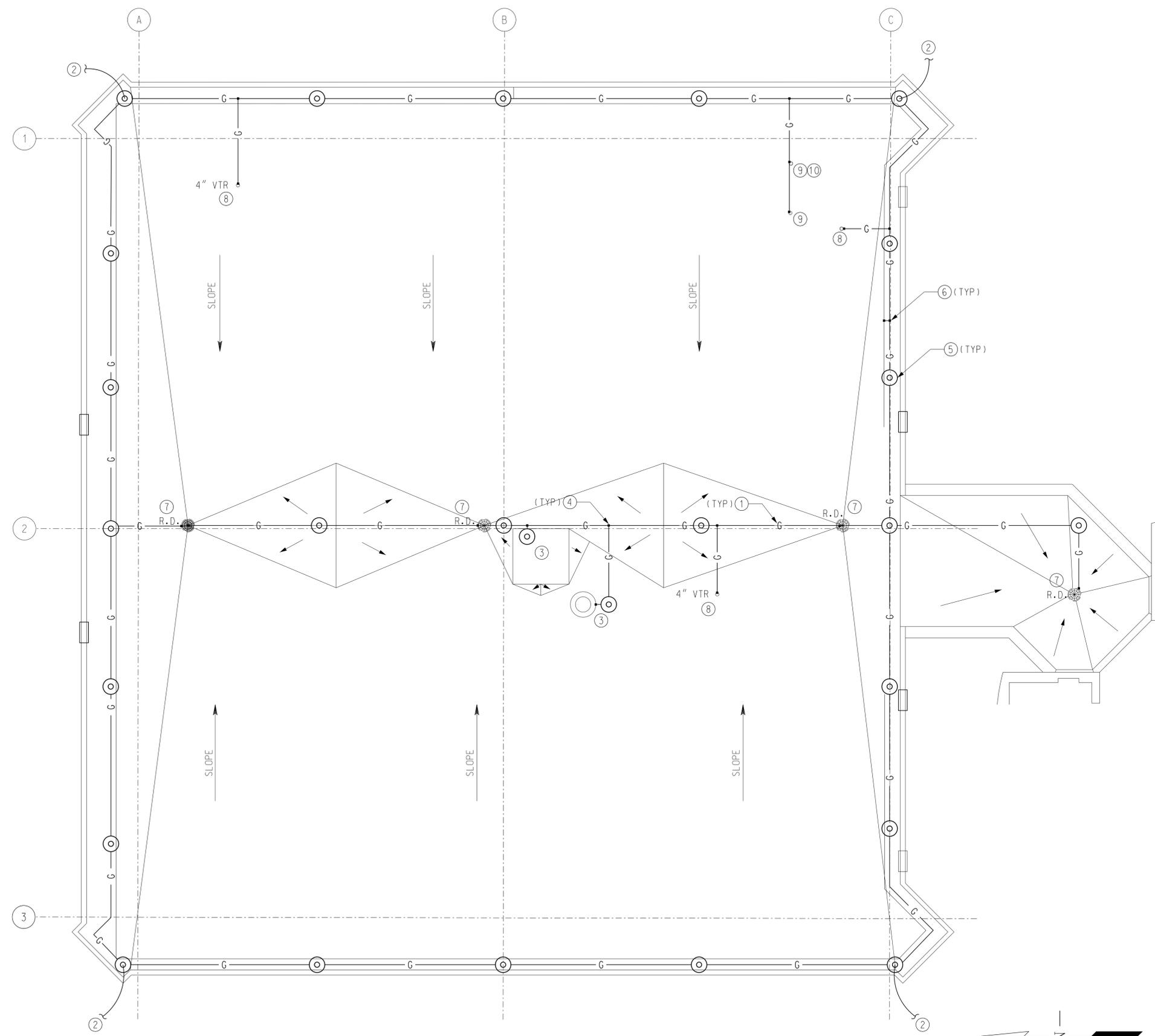


① BASE BUILDING POWER PLAN
E120 SCALE: 3/16" = 1' - 0"

FILES: 219075.00
REVISED: 01/31/20

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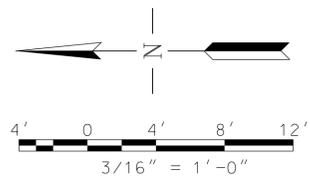
GENERAL NOTES

- A. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.
- B. REMOVE EXISTING LIGHTNING PROTECTION ROOF CONDUCTOR AND ACCESSORIES 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 ENCOUNTERS 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 LIGHTNING 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.

1 BASE BUILDING ROOF & LIGHTNING PROTECTION PLAN
E160 SCALE: 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
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		
DESIGNED JMC	ISSUED BY		APPROVER'S TITLE - MANAGER		
DRAWN JMC	ATLANTA TERMINAL ENGINEERING CENTER		DATE JAN 31, 2020	JCN 1508912	
CHECKED MRK			DRAWING NO. FTL-D-TRACO-E160		

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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.

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			Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads			Branch Circuit Load Description	
	A	B	C						A	B	C		
EF-2				20/1	1	A	2	20/2				UH-8	
SPARE				20/1	3	B	4						
WATER HEATER (EWH-1)				40/2	5	C	6	20/2			1.25	VAV-1 ←	
					7	A	8		1.25				
UH-4				20/2	9	B	10	20/2		1.00		VAV-2 ←	
					11	C	12				1.00		
② VAV-3	3.00			40/2	13	A	14	20/2				UH-1	
		3.00			15	B	16						
SPACE					17	C	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	C	24						
① VAV-5	2.00			30/2	25	A	26	60/3	4.50			VAV-8 ←	
		2.00			27	B	28			4.50			
SPARE				20/1	29	C	30						
SPD				30/3	31	A	32	20/3				BOOSTER PUMPS BP-1 & BP-2	
					33	B	34						
					35	C	36						
SPRINKLER PUMP				20/3	37	A	38	30/3				SUMP PUMP	
					39	B	40						
					41	C	42						
6.00 6.00			<< PHASE SUB-TOTALS >>			5.75 5.50 2.25							
PHASE TOTALS:			Phase A 11.75			Phase B 11.50			Phase C 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		
Supplemental 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			Total kVA Loads		Overcurrent Device			Remarks
		Phase A	Phase B	Phase C	Connected	Demand	Frame	Trp	Poles	
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		
Supplemental AC		
TOTALS (kVA)		

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

PROVIDE THE FOLLOWING:

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
ELECTRICAL
PANEL SCHEDULES

FT LAUDERDALE (INTERNATIONAL) FL

DESIGNED: JMC	ISSUED BY: JMC	DATE: JAN 31, 2020	JCN: 1508912
DRAWN: JMC	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO:	
CHECKED: MRK			

FLL-D-TRACO-E500

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.

PANEL SCHEDULE (EXISTING)												
DESIGNATION: #9					PANEL CHARACTERISTICS							
FED FROM: MDPE LOCATION: STORAGE RM 120					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			Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads			Branch Circuit Load Description
	A	B	C						A	B	C	
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				SPARE
SPARE				20/1	29	C	30	20/1				SPARE
SPARE					31	A	32					SPARE
SPARE					33	B	34					SPARE
SPARE					35	C	36					SPARE
SPARE					37	A	38					SPARE
SPARE					39	B	40					SPARE
SPARE					41	C	42					SPARE
<< PHASE SUB-TOTALS >>										0.50		
PHASE TOTALS				Phase A	Phase B	Phase C						
					0.50		kVA					

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

0.50 kVA - TOTAL CONNECTED LOAD	PROVIDE THE FOLLOWING:
0.40 kVA - TOTAL DEMAND LOAD	
1.11 AMPS - DEMAND	

PANEL SCHEDULE (EXISTING)												
DESIGNATION: #10					PANEL CHARACTERISTICS							
FED FROM: MDPE LOCATION: STORAGE RM 120					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			Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads			Branch Circuit Load Description
	A	B	C						A	B	C	
CU-1 CONV. RECT.				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
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
<< PHASE SUB-TOTALS >>										1.00	1.00	
PHASE TOTALS				Phase A	Phase B	Phase C						
					1.00	1.00	kVA					

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

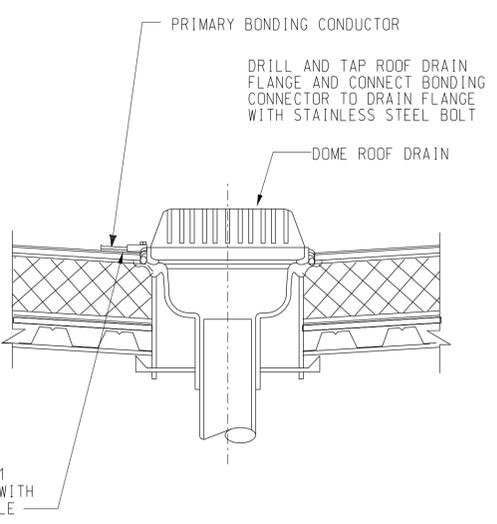
36.80 kVA - TOTAL CONNECTED LOAD	PROVIDE THE FOLLOWING:
29.44 kVA - TOTAL DEMAND LOAD	
81.72 AMPS - DEMAND	

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.					PAGE	OF
	 <p>WileyWilson 5901 Peachtree Dunwoody Rd. Bldg. C, Ste 515 Atlanta, Georgia 30328-6055 678.320.1888 wileywilson.com</p> <p style="font-size: small;">WW JOB NUMBER: 219075.00</p>	DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ELECTRICAL PANEL SCHEDULES FT LAUDERDALE (INTERNATIONAL) FL				
REVIEWED BY	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD	
SUBMITTED BY	SUBMITTER'S TITLE - CIVIL ENGINEER		APPROVER'S TITLE - MANAGER			
DESIGNED	JMC	ISSUED BY	DATE	JCN	1508912	
DRAWN	JMC	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO	FLL-D-TRACO-E502		REV
CHECKED	MRK					

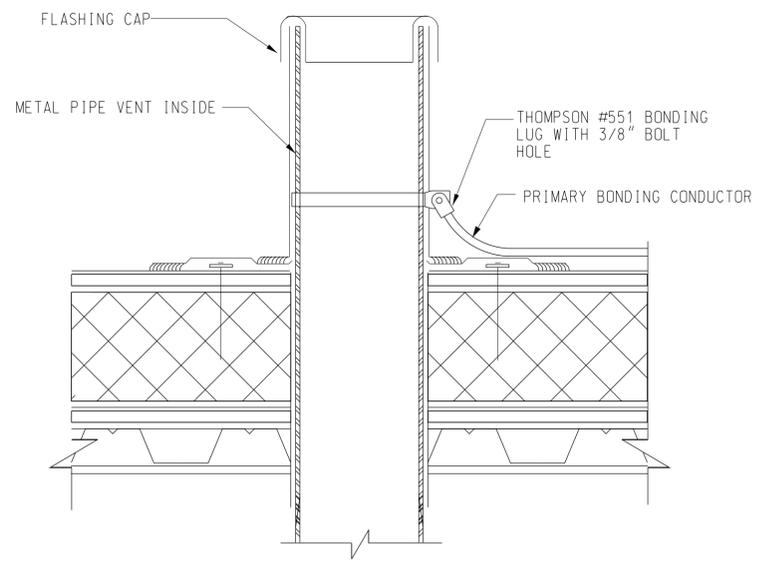
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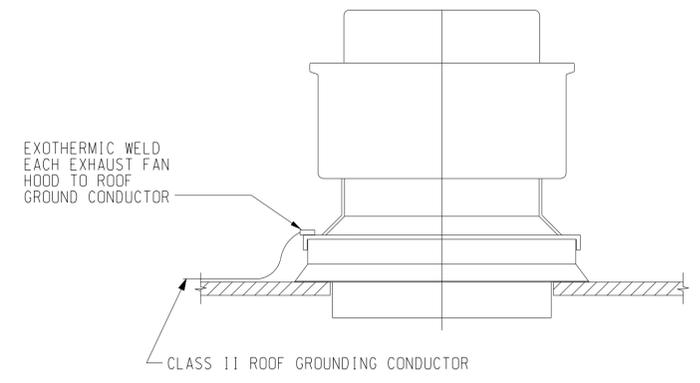
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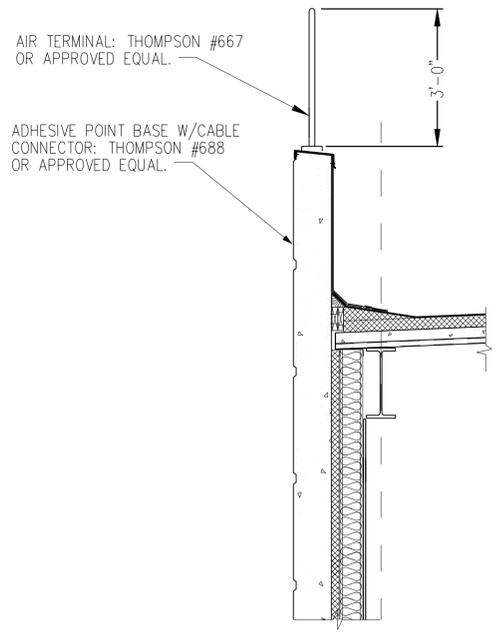
1 ROOF DRAIN GROUNDING
E600 NOT TO SCALE



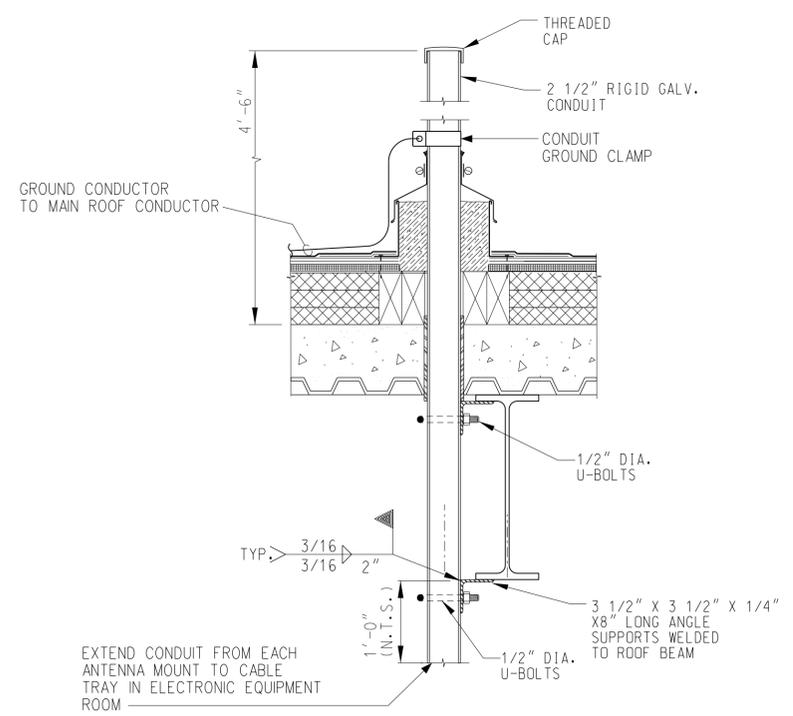
2 ROOF VENT GROUNDING
E600 NOT TO SCALE



3 EXHAUST FAN HOOD GROUNDING
E600 NOT TO SCALE



4 PARAPET ROOF AIR TERMINAL
E600 NOT TO SCALE

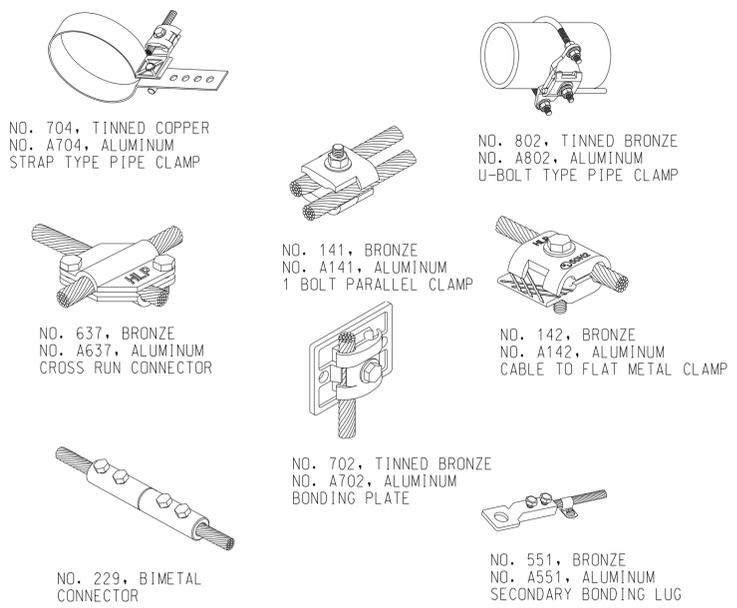


5 ANTENNA MOUNT DETAIL
E600 NOT TO SCALE

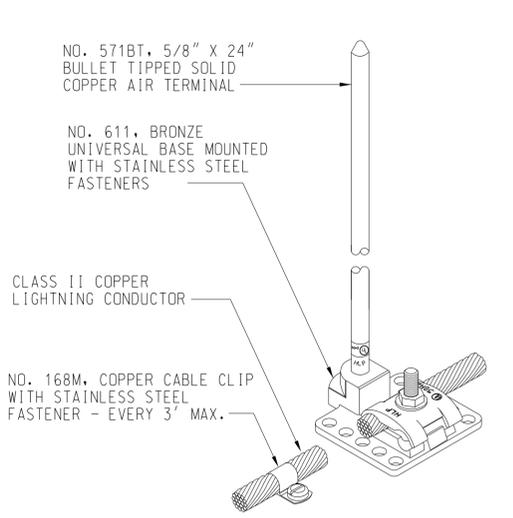
SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES. PAGE OF

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ELECTRICAL DETAILS					
FT LAUDERDALE (INTERNATIONAL)			FL		
REVIEWED BY	SUBMITTED BY		APPROVED BY		
DESIGNED	JMC	ISSUED BY	DATE	JCN	REV
DRAWN	CRK	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	
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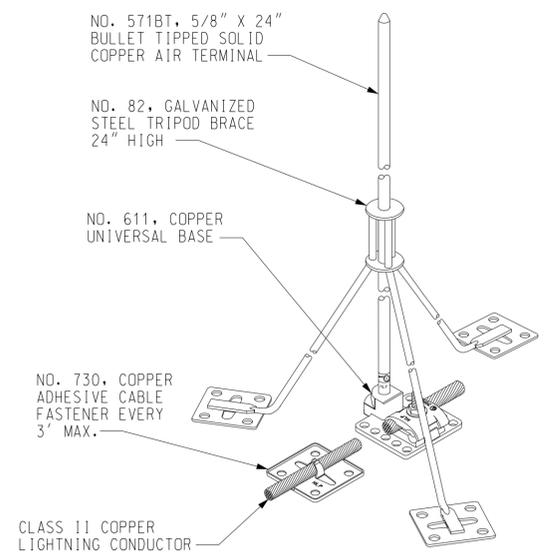
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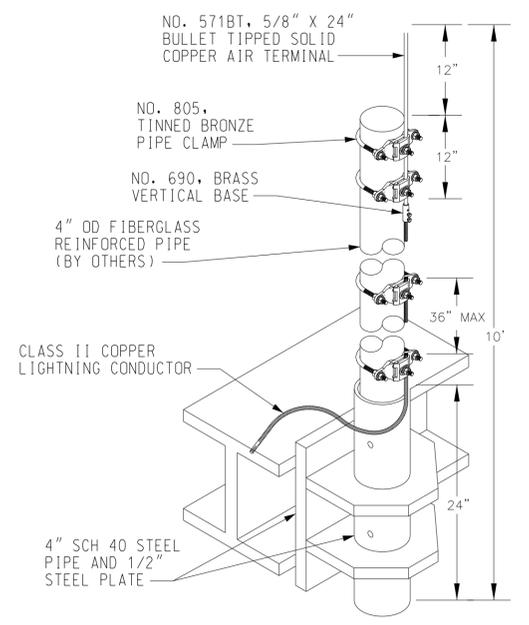
1 TYPICAL BONDING/SPLICING DETAILS
E601 NOT TO SCALE



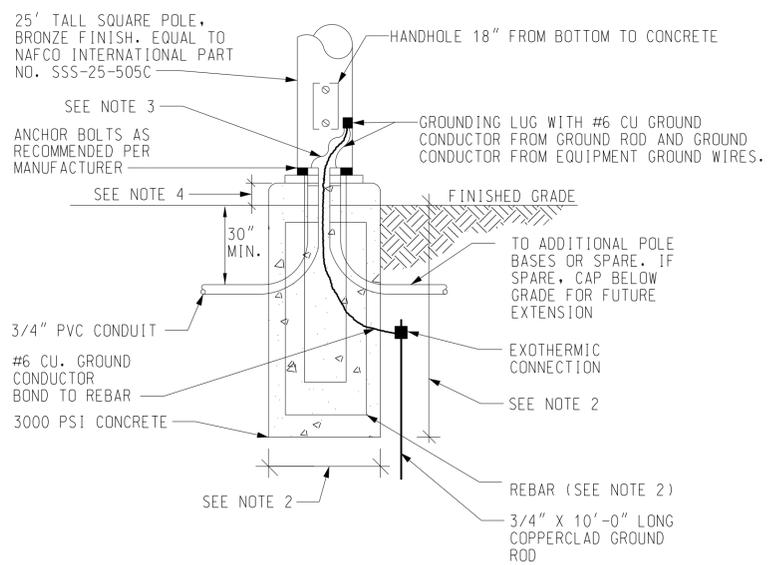
2 AIR TERMINAL DETAIL
E601 NOT TO SCALE



3 AIR TERMINAL DETAIL
E601 NOT TO SCALE



4 AIR TERMINAL DETAIL
E601 NOT TO SCALE



- NOTES:
- FURNISH POLE BASE TEMPLATE TO GENERAL CONTRACTOR PRIOR TO CONCRETE POUR.
 - 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.
 - PROVIDE GROUNDING BUSHINGS PER NEC.
 - SET TOP OF CONCRETE FOUNDATION 4" ABOVE GRADE.

5 POLE BASE DETAIL
E601 NOT TO SCALE

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REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

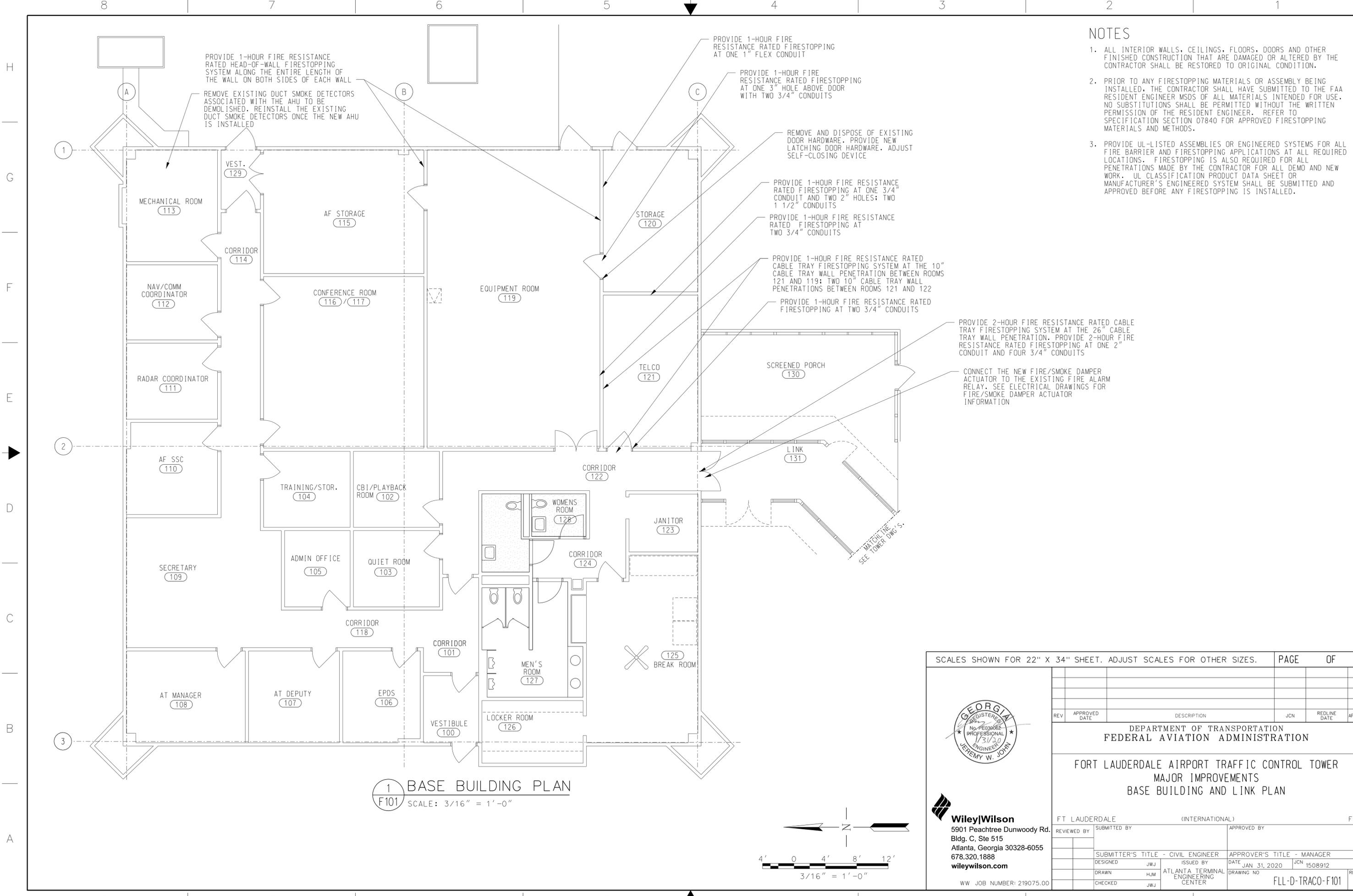
**FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
DETAILS**

FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
DESIGNED	ISSUED BY	DATE
JMC	JMC	JAN 31, 2020
DRAWN	ATLANTA TERMINAL ENGINEERING CENTER	JCN
JMC		1508912
CHECKED		DRAWING NO
JAB		

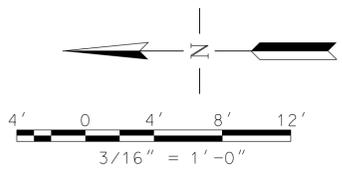
FLL-D-TRACO-E601

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- 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.

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



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

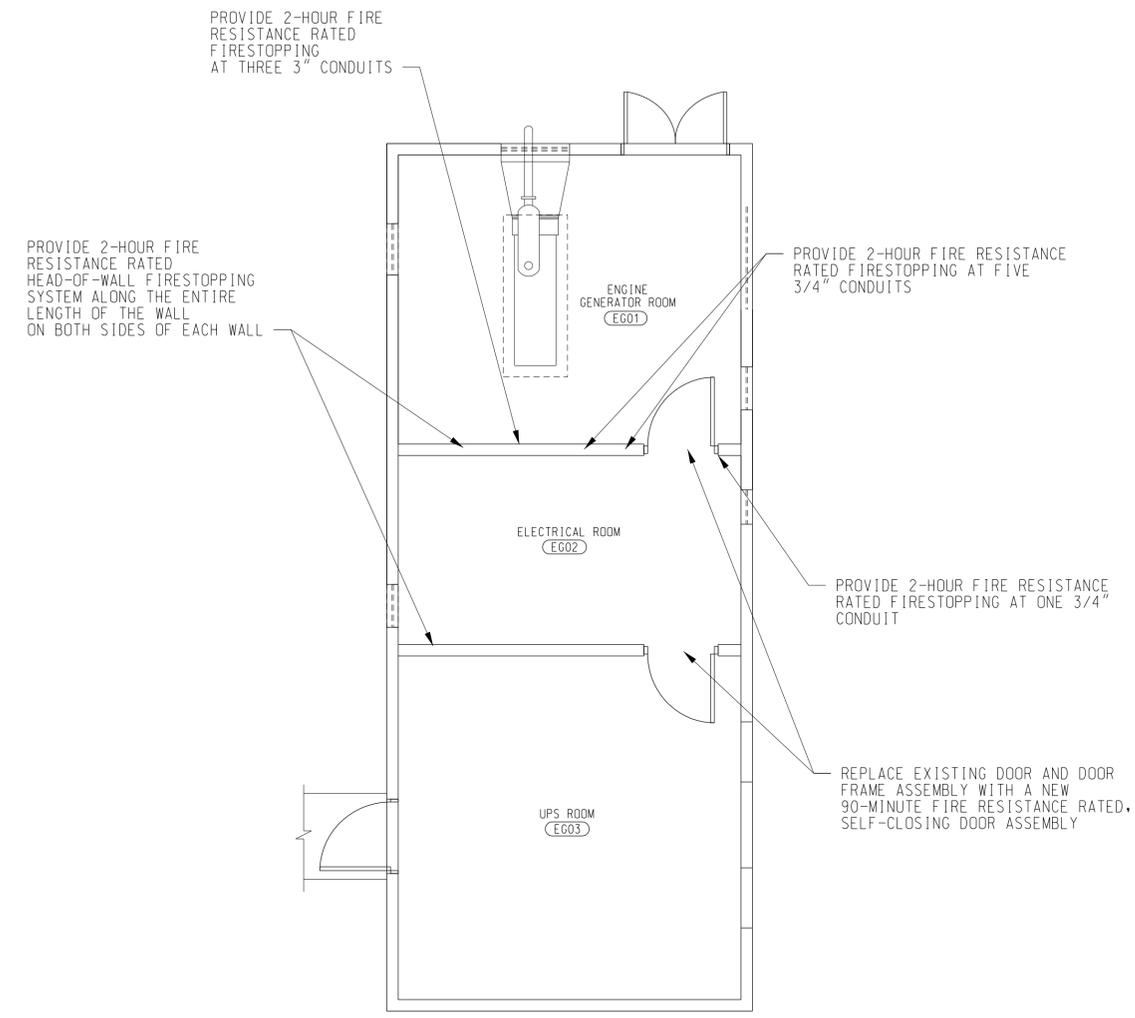
		DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS BASE BUILDING AND LINK PLAN			
FT LAUDERDALE (INTERNATIONAL) FL		APPROVED BY: _____	
REVIEWED BY: _____	SUBMITTED BY: _____	APPROVER'S TITLE - MANAGER	
DESIGNED: JWJ	ISSUED BY: _____	DATE: JAN 31, 2020	JCN: 1508912
DRAWN: HJM	ATLANA TERMINAL ENGINEERING CENTER	DRAWING NO: FLL-D-TRACO-F101	
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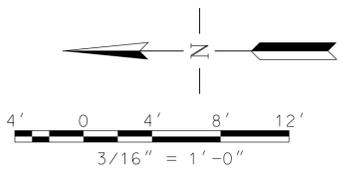
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NOTES

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.



1 GENERATOR BUILDING PLAN
 F102 SCALE: 3/16" = 1'-0"



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS GENERATOR BUILDING PLAN					
FT LAUDERDALE (INTERNATIONAL) FL					
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
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	
CHECKED JWJ				FLL-D-TRACO-F102	
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AIRPORT TRAFFIC CONTROL TOWER (ATCT)

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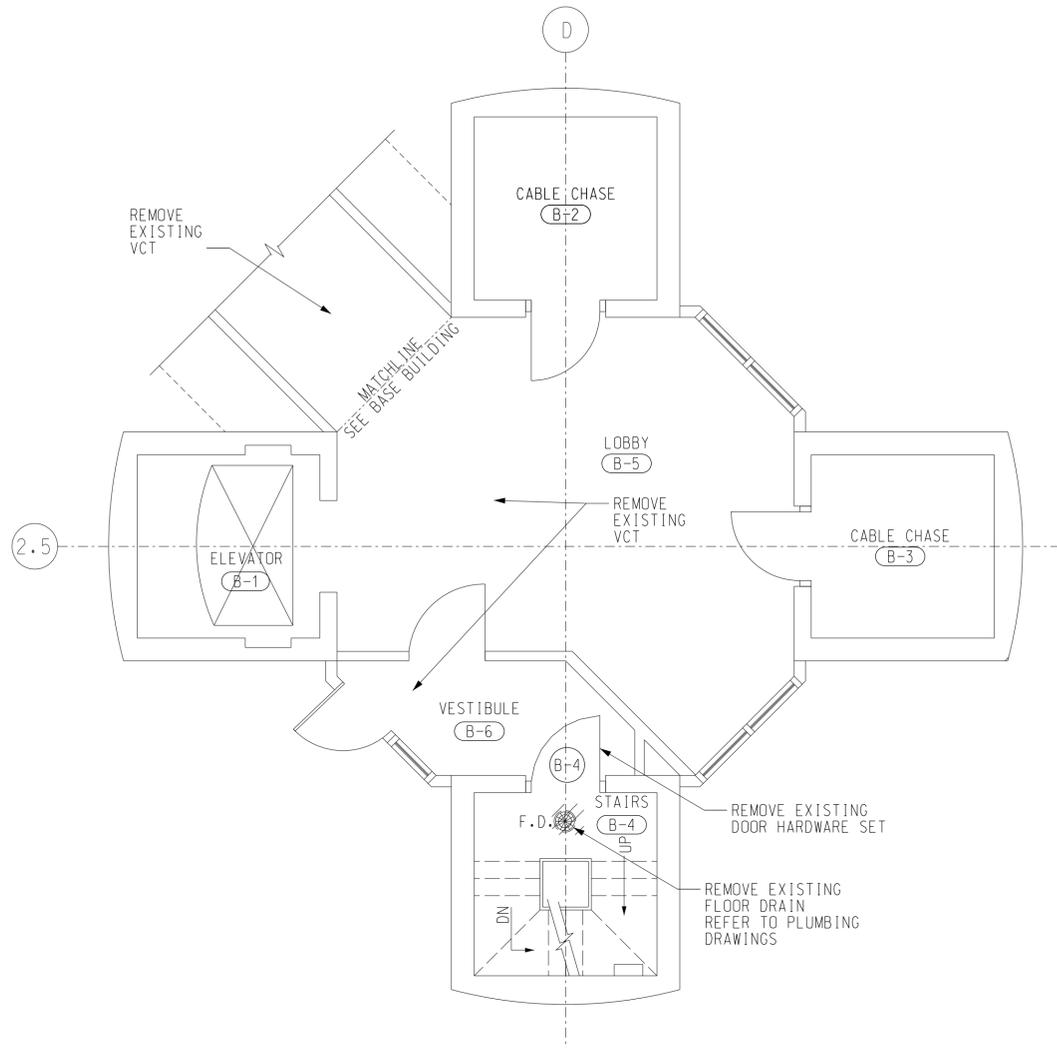
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REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS GENERAL COVER SHEET					
FT LAUDERDALE			(INTERNATIONAL)	FL	
REVIEWED BY	SUBMITTED BY		APPROVED BY		
DESIGNED	CRK	ISSUED BY		DATE	JCN
DRAWN	CRK	ATLANTA TERMINAL ENGINEERING CENTER		JAN 31, 2020	1508912
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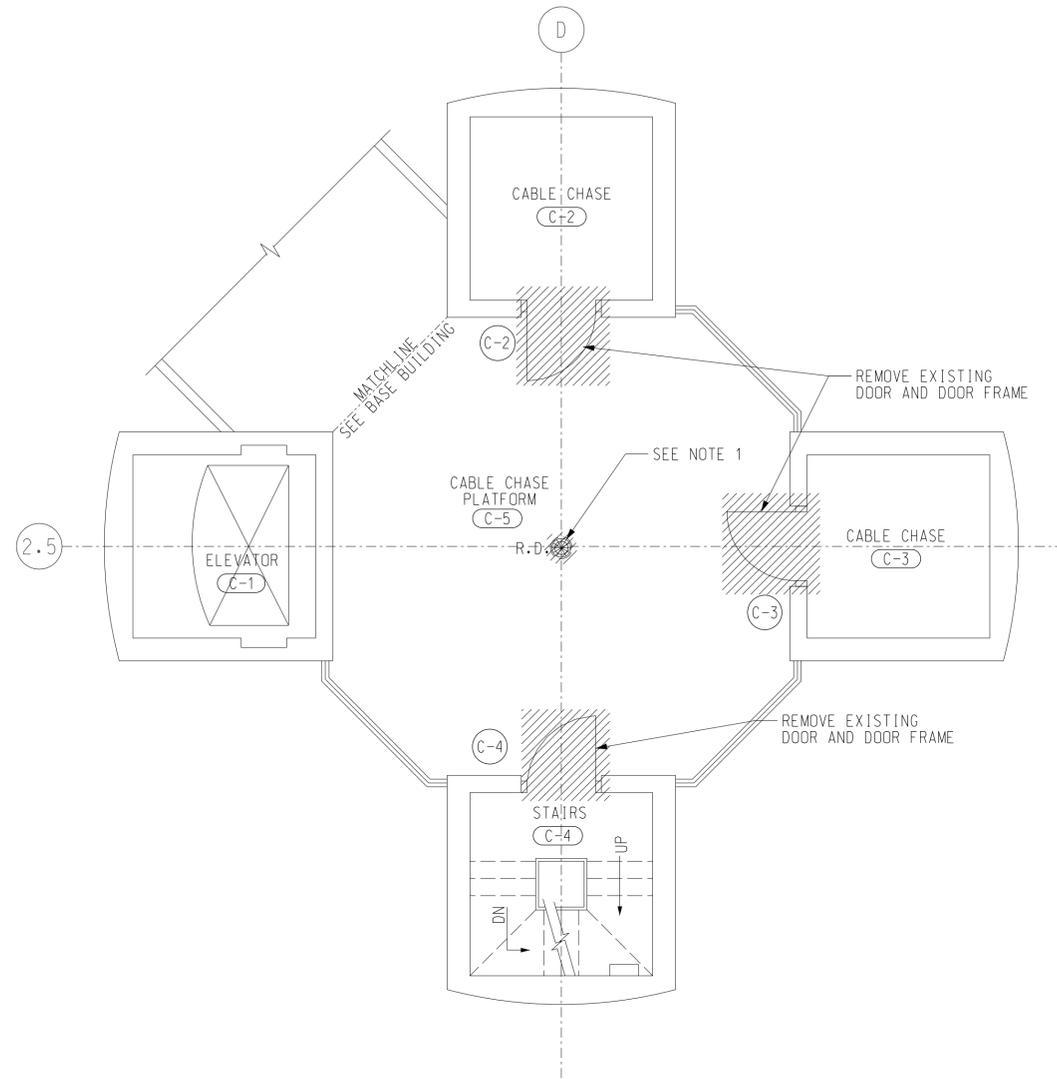
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NOTES
 1. REMOVE EXISTING 3" ROOF/STORM DRAIN PIPE. REFER TO ATCT-D400 FOR PLUMBING DEMOLITION.

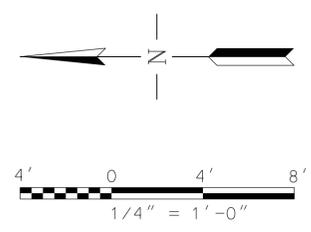


1 GROUND LEVEL DEMOLITION PLAN
 D100 SCALE: 1/4" = 1' - 0"



2 SECOND LEVEL DEMOLITION PLAN
 D100 SCALE: 1/4" = 1' - 0"

NO WORK TO BE DONE ON THIS LEVEL



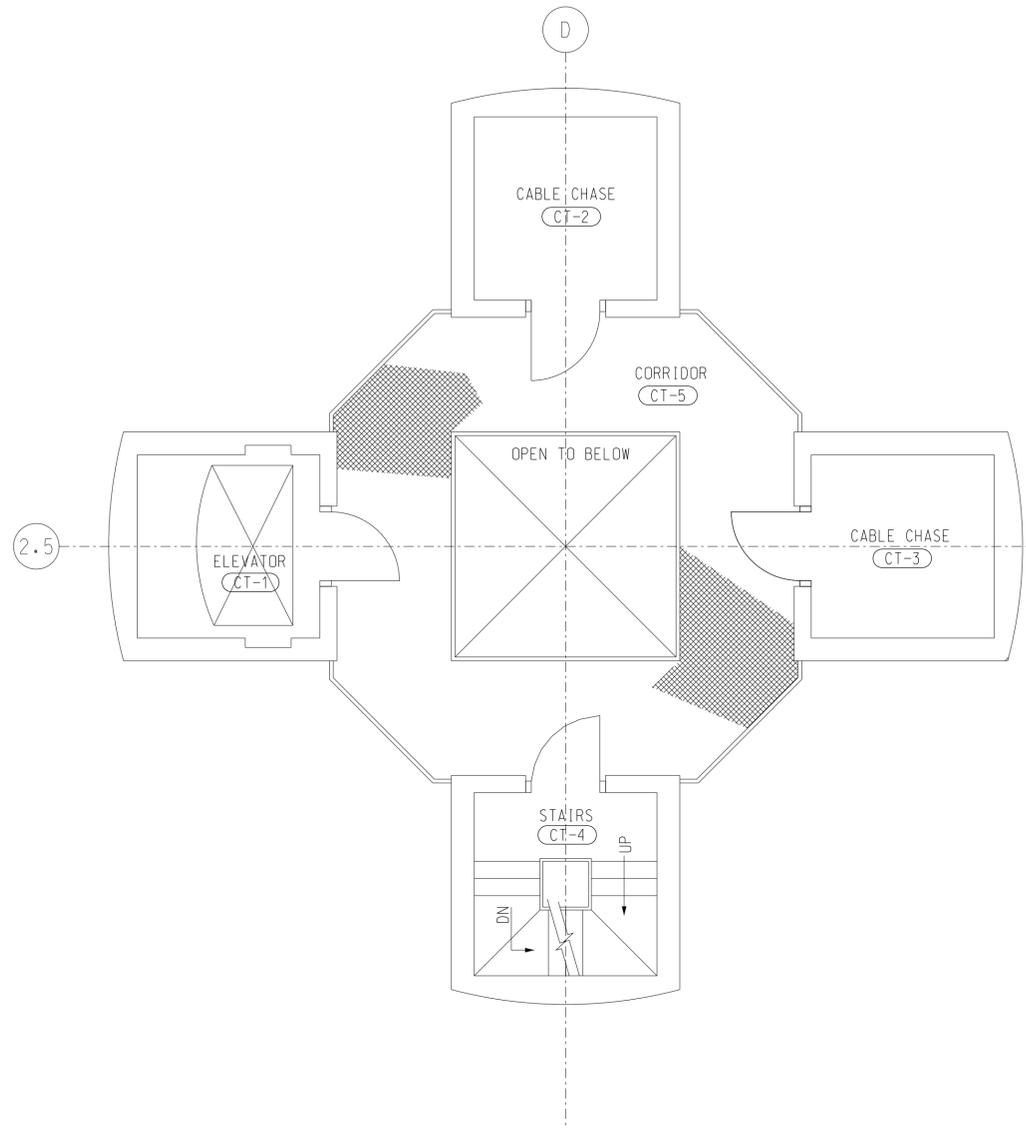
SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ARCHITECTURAL GROUND LEVEL AND SECOND LEVEL DEMOLITION					
FT LAUDERDALE (INTERNATIONAL)		FL			
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	
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WW JOB NUMBER: 219075.00					

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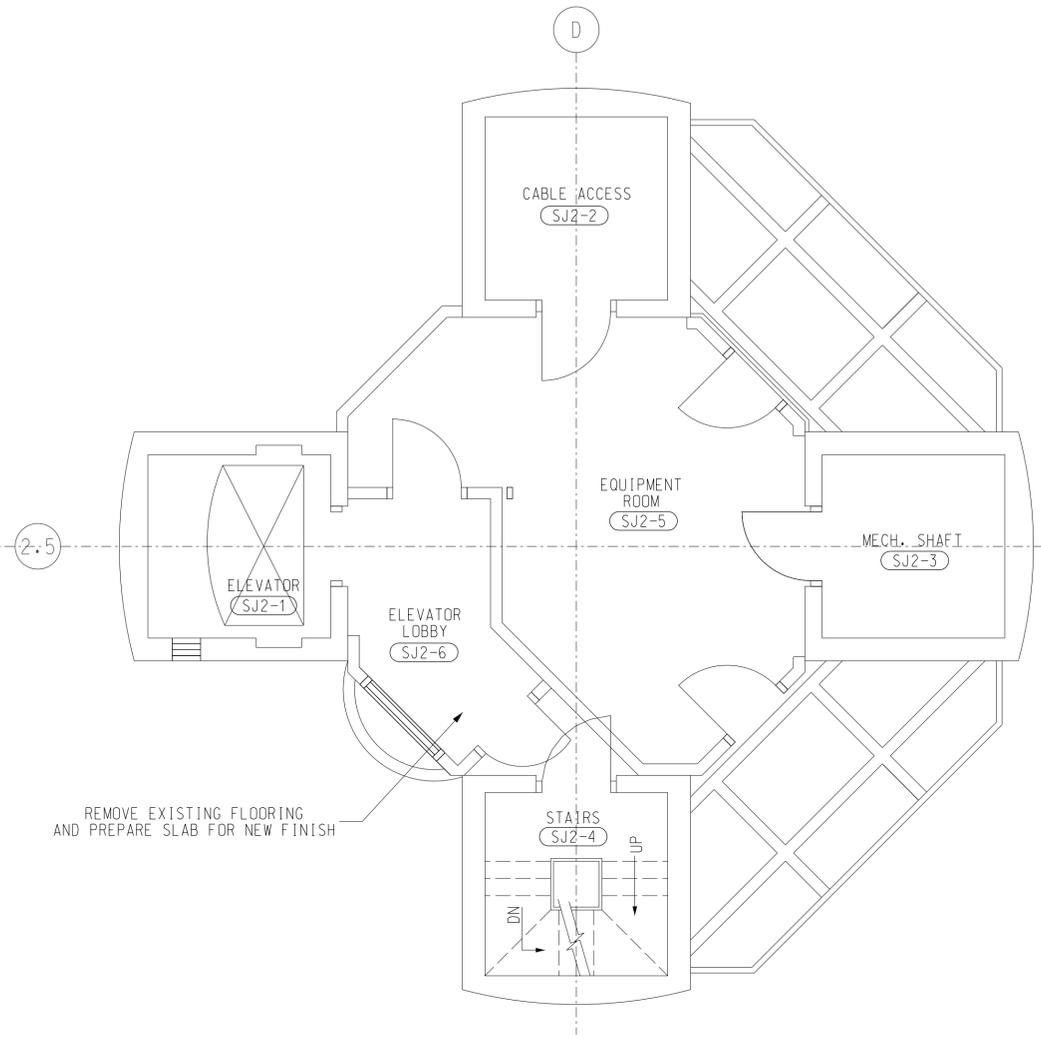
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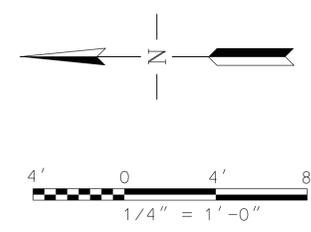


1 CABLE ACCESS DEMOLITION PLAN
D101 SCALE: 1/4" = 1' - 0"

NO WORK TO BE DONE ON LEVELS 3RD, 4TH, 5TH, AND 6TH.
SEE A121 FOR CLEANING OF EXPOSED STRUCTURE ON LEVEL 7TH.



2 SUBJUNCTION LEVEL 2 DEMOLITION PLAN
D101 SCALE: 1/4" = 1' - 0"



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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ARCHITECTURAL CABLE ACCESS AND SUBJUNCTION LEVEL 2 - DEMOLITION FT LAUDERDALE (INTERNATIONAL) FL					
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
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	NKE	DRAWING NO	FLL-D-ATCT-D101		

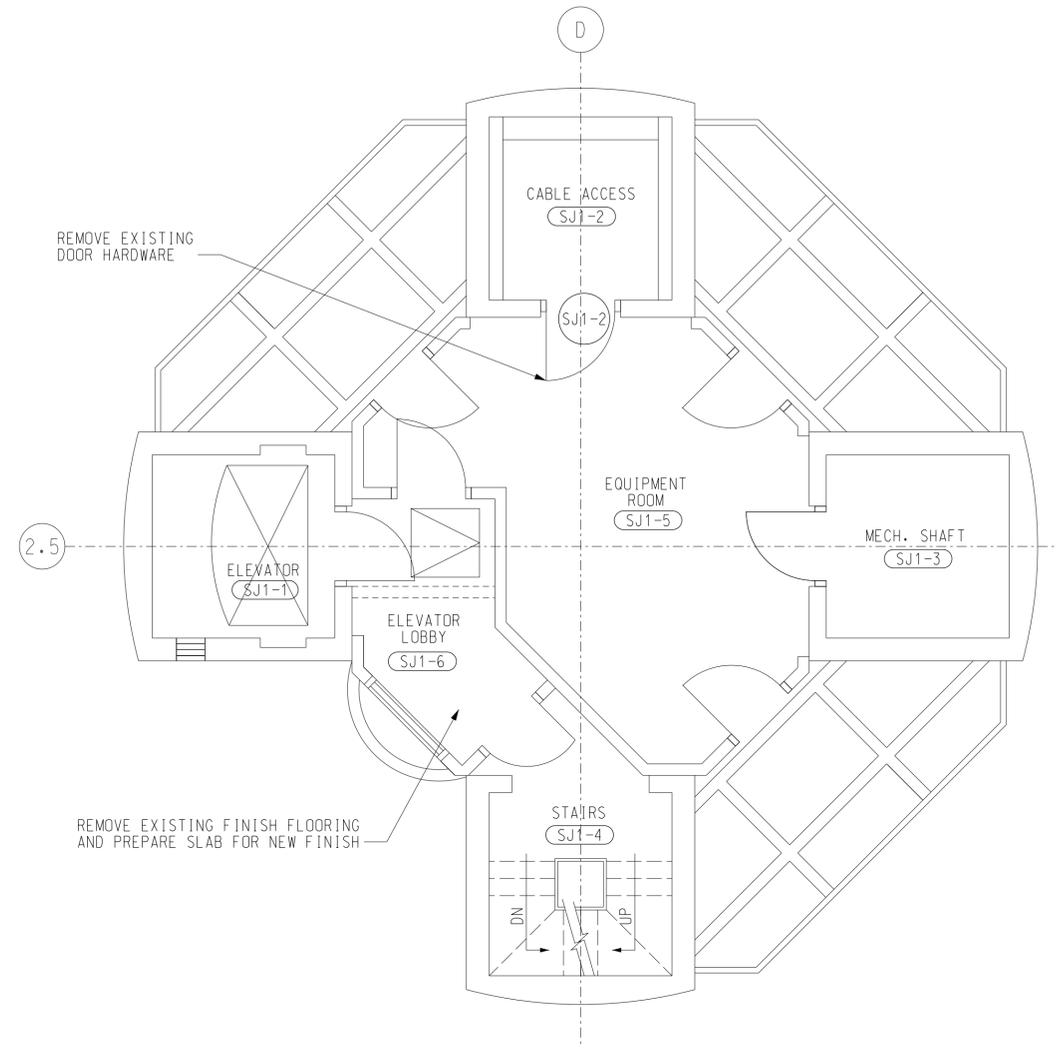
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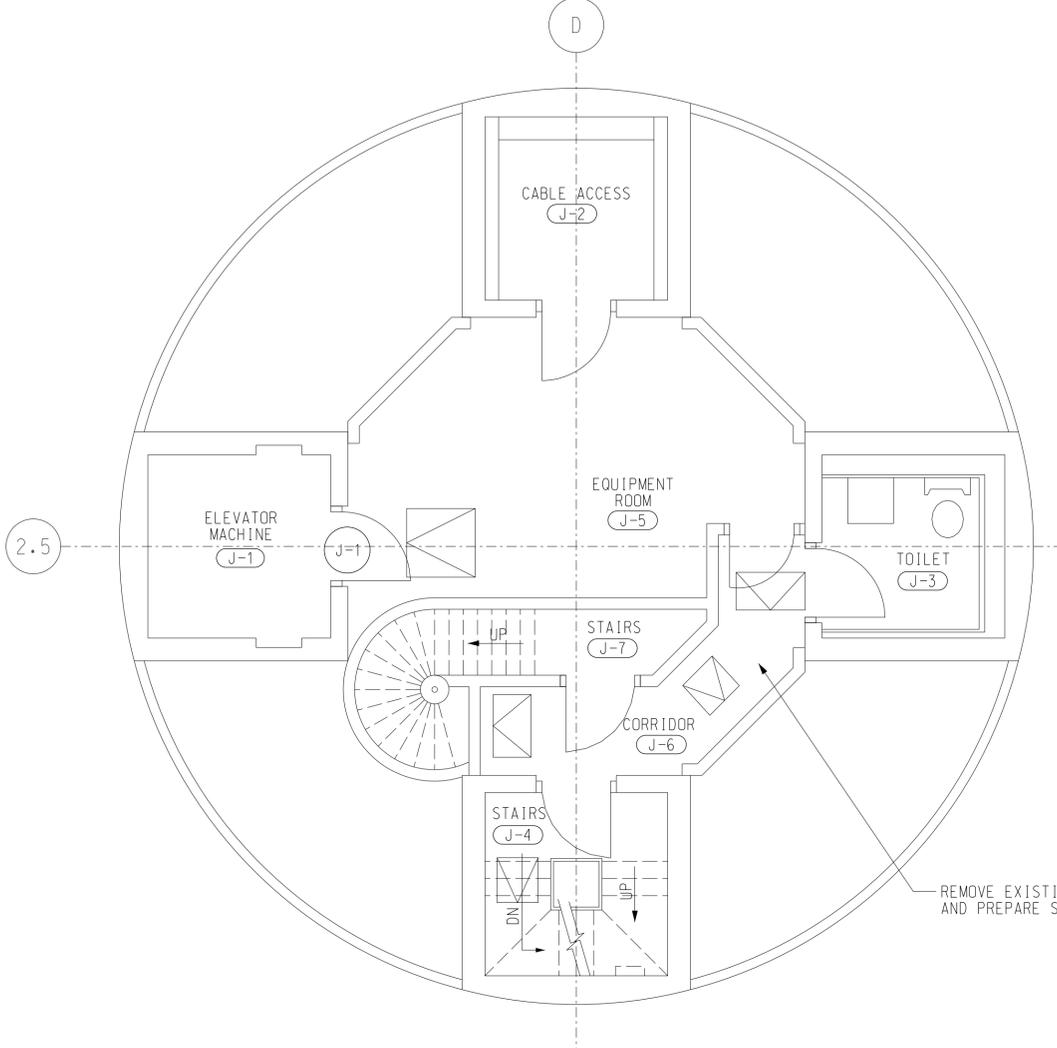
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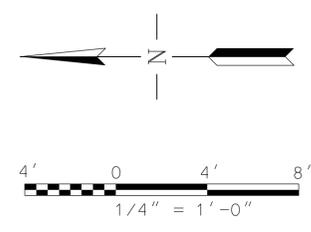
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1 SUBJUNCTION LEVEL 1 DEMOLITION PLAN
D102 SCALE: 1/4" = 1' - 0"



2 JUNCTION LEVEL DEMOLITION PLAN
D102 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	
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	JCN	REV	
DRAWN	GMR	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912		
CHECKED	MDS		DRAWING NO			FLL-D-ATCT-D102
WW JOB NUMBER: 219075.00						



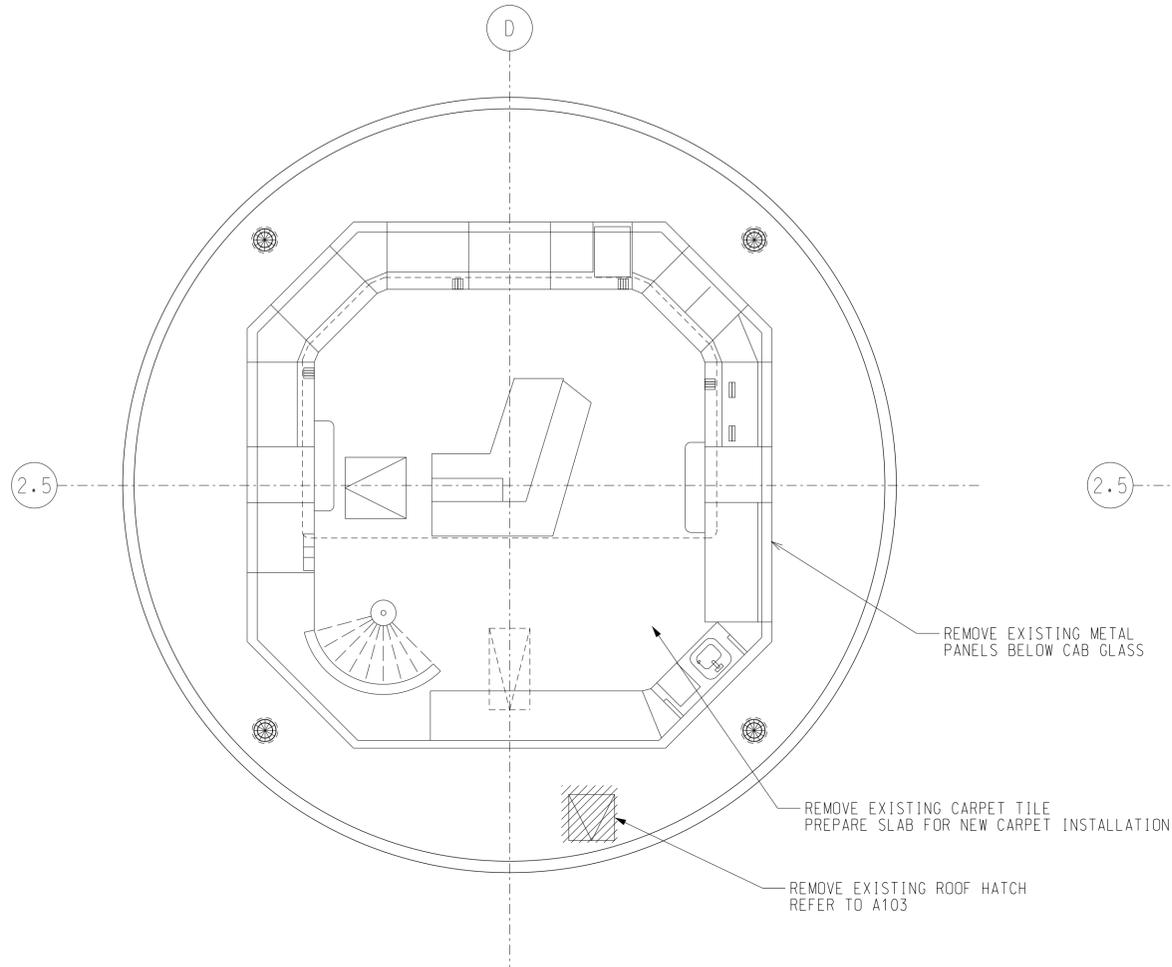
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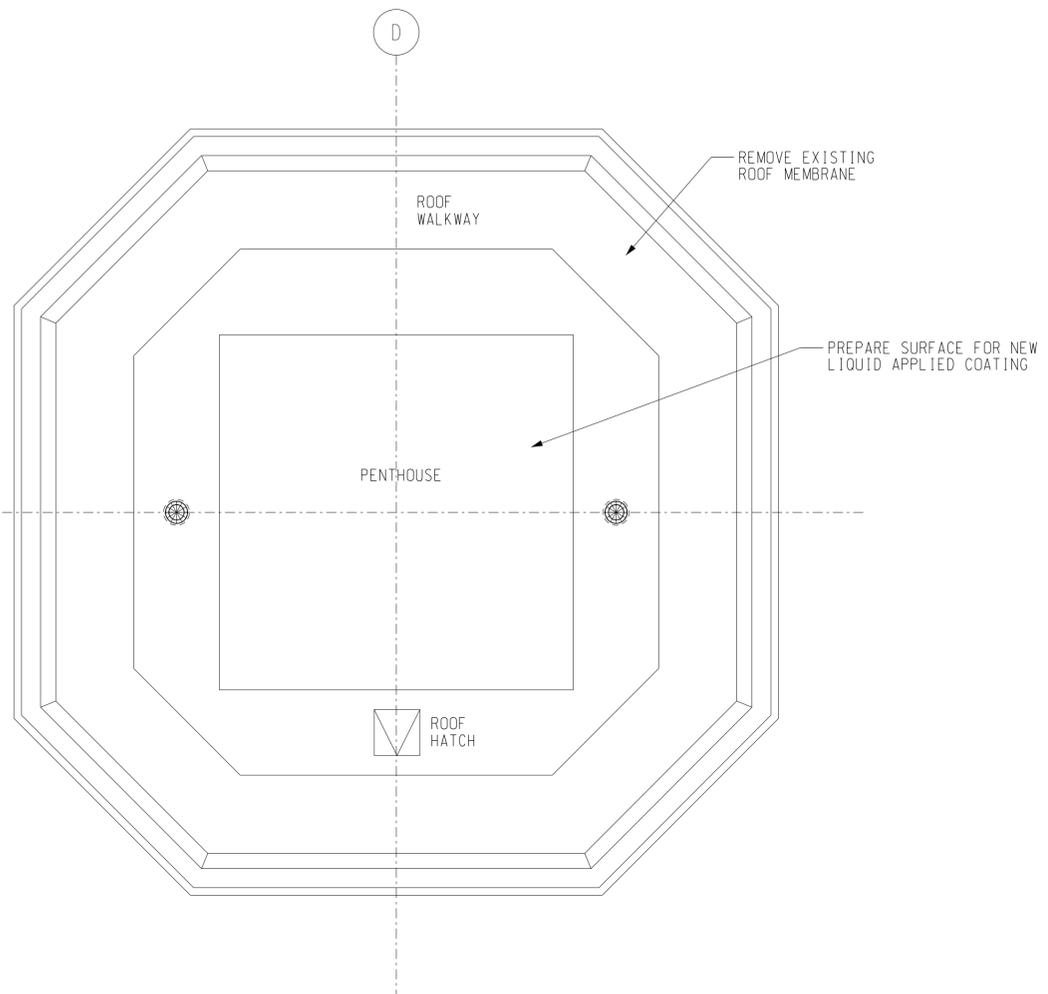
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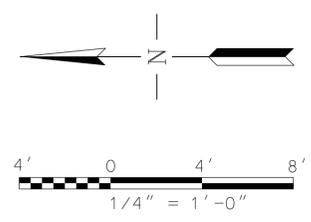
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1 CAB DEMOLITION PLAN
D103 SCALE: 1/4" = 1' - 0"



2 ROOF DEMOLITION PLAN
D103 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
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					
REVIEWED BY	SUBMITTED BY	APPROVED BY			
DESIGNED	GMR	ISSUED BY		DATE	JCN
DRAWN	GMR	ATLANTA TERMINAL ENGINEERING CENTER		JAN 31, 2020	1508912
CHECKED	MDS			DRAWING NO	REV
				FLL-D-ATCT-D103	

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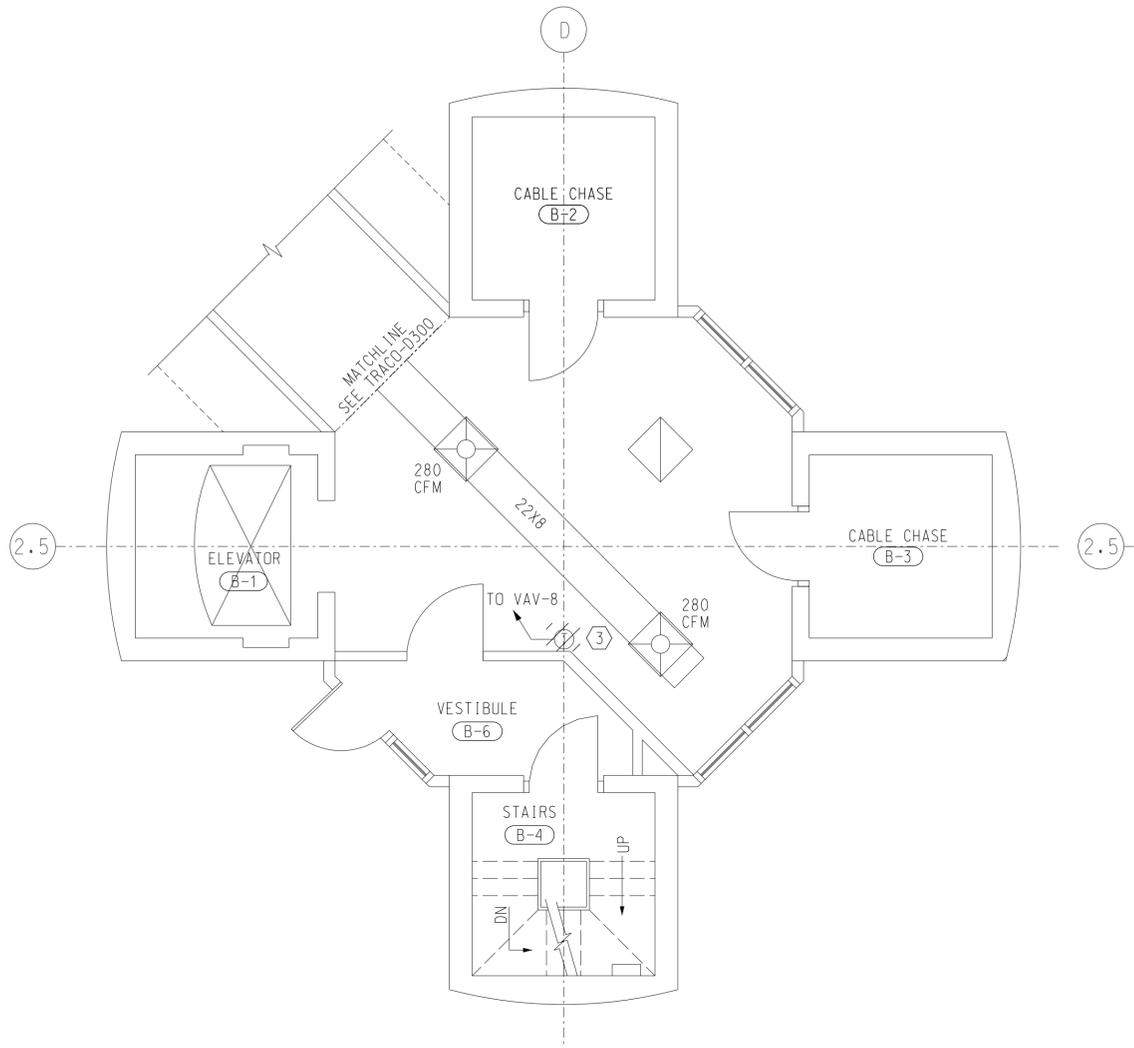
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DEMOLITION NOTES

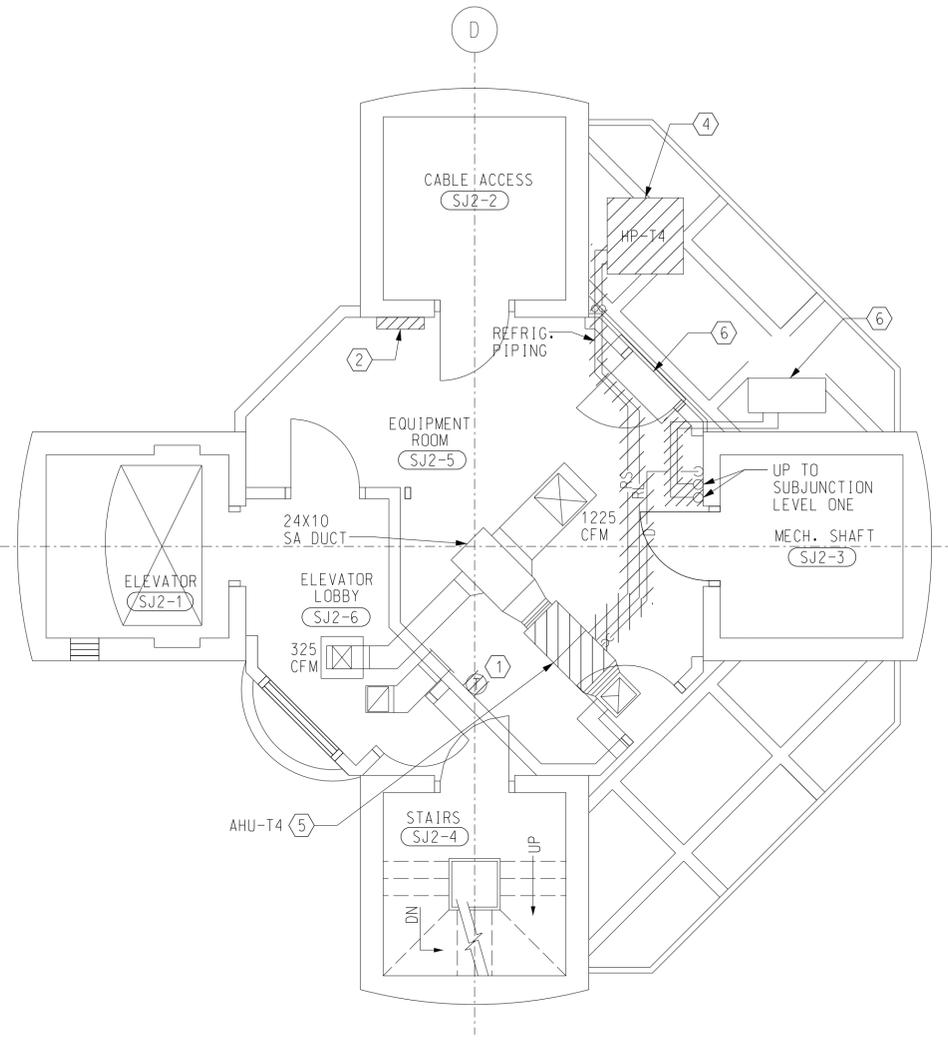
- ① REMOVE EXISTING ROOM SENSOR AND ASSOCIATED CONTROLS.
- ② REMOVE EXISTING DDC CONTROL PANEL FOR AHU-T4.
- ③ REMOVE THERMOSTAT ACCOCIATED WITH VAV BOX.
- ④ REMOVE CONDENSING UNIT HP-T4.
- ⑤ REMOVE AHU-T4 AND ASSOCIATED LINE SET.
- ⑥ EXISTING MINI-SPLIT UNIT TO REMAIN.

GENERAL

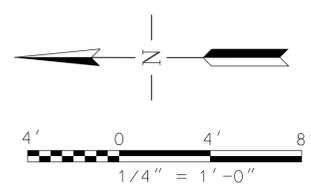
- A. EXISTING WORK SHOWN LIGHT DASHED OR LIGHT SOLID LINE WITHOUT HATCHING SHALL REMAIN.
- B. CONTRACTOR SHALL COMPLETELY REMOVE THE EXISTING HVAC CONTROL SYSTEM INCLUDING OPERATOR WORKSTATION, CONTROL PANELS, CONTROL WIRING, THERMOSTATS, AND ALL ASSOCIATED CONTROL COMPONENTS.
- C. CONTRACTOR SHALL REVIEW 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 SHALL HAVE FIRST RIGHT TO ALL EQUIPMENT THAT IS REMOVED.



① GROUND LEVEL PLAN - DEMOLITION
D300 SCALE: 1/4" = 1'-0"



② SUBJUNCTION LEVEL 2 PLAN - DEMOLITION
D300 SCALE: 1/4" = 1'-0"



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
				REV	APPROVED DATE
				DESCRIPTION	JCN
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	JCN	1508912
DRAWN	CRK	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO		
CHECKED	MDS			FLL-D-ATCT-D300	
WW JOB NUMBER: 219075.00					

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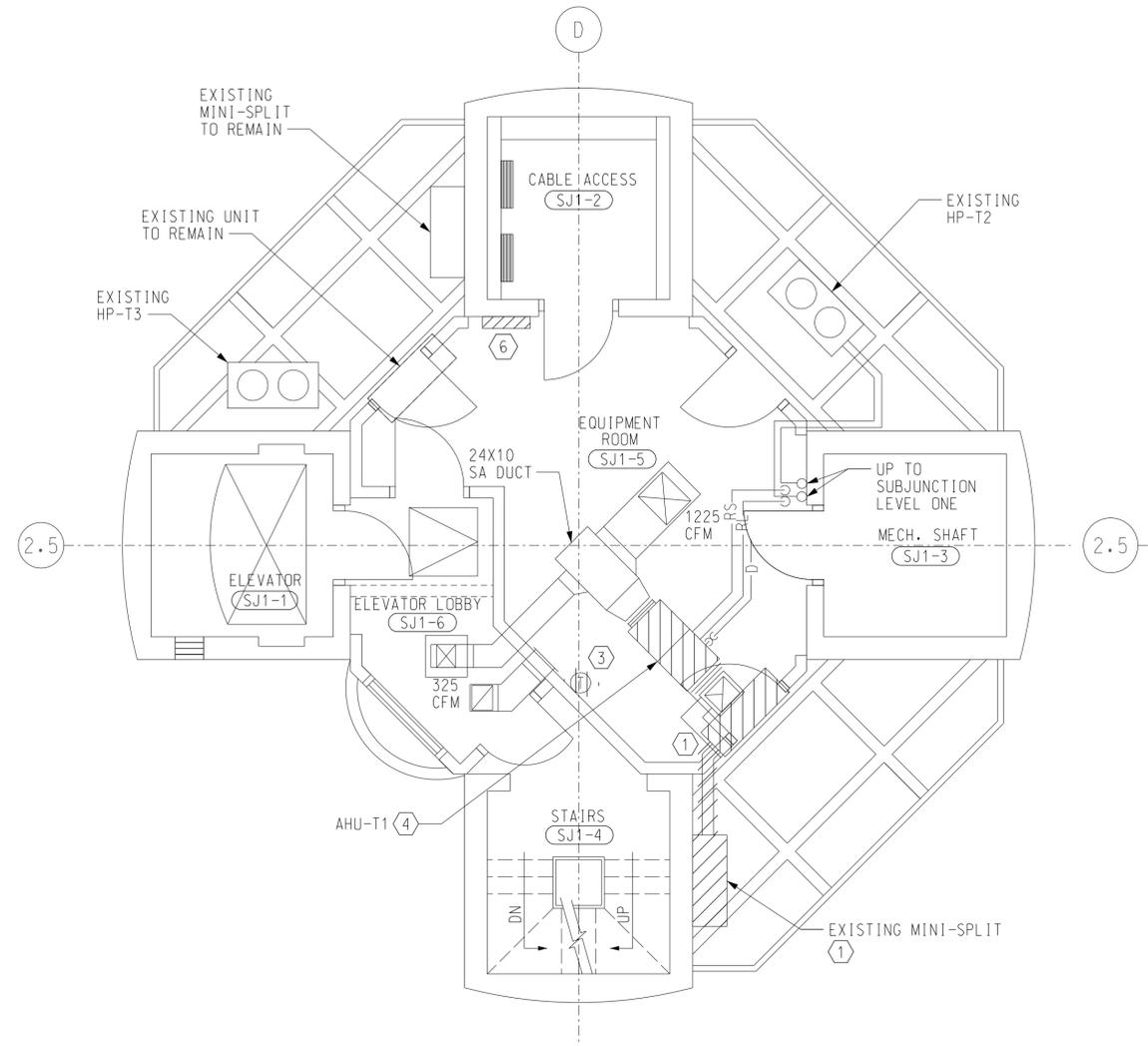
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DEMOLITION NOTES

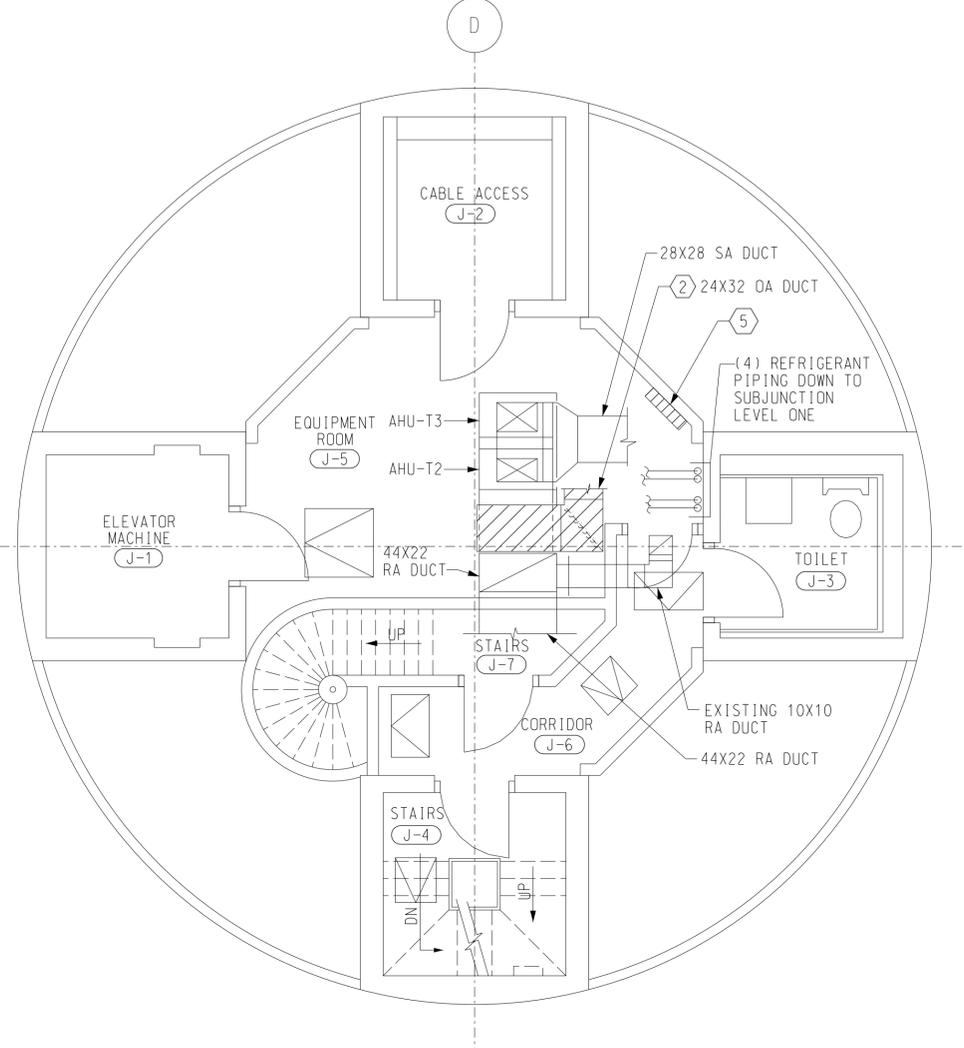
- ① FIELD LOCATE AND REMOVE EXISTING MINI-SPLIT (INDOOR AND OUTDOOR UNITS), LINESET AND ASSOCIATED CONTROLS. AFTER NEW SPLIT SYSTEMS HAVE BEEN INSTALLED.
- ② REMOVE EXISTING OA DUCT.
- ③ REMOVE THERMOSTAT AND ASSOCIATED CONTROLS.
- ④ REMOVE AHU-T1 AND ASSOCIATED LINESET.
- ⑤ REMOVE EXISTING DDC CONTROL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

GENERAL

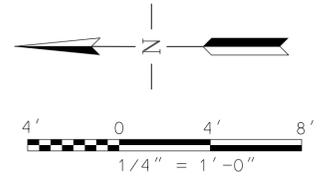
- A. AIR FLOW SHOWN ON EXISTING SUPPLY AIR OUTLETS ARE FROM AS-BUILT DRAWINGS. CONTRACTOR SHALL PERFORM AIR FLOW TEST AND RECORD THE ACTUAL AIR FLOW ON EXISTING AIR OUTLETS IN BASE BUILDING AND TOWER PRIOR TO BEGINNING ANY HVAC DEMOLITION WORK. RESULTS SHALL BE RETAINED AND USED TO RESTORE THE SYSTEM 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.



① SUBJUNCTION LEVEL ONE PLAN - DEMOLITION
D301 SCALE: 1/4" = 1'-0"



② JUNCTION LEVEL PLAN - DEMOLITION
D301 SCALE: 1/4" = 1'-0"

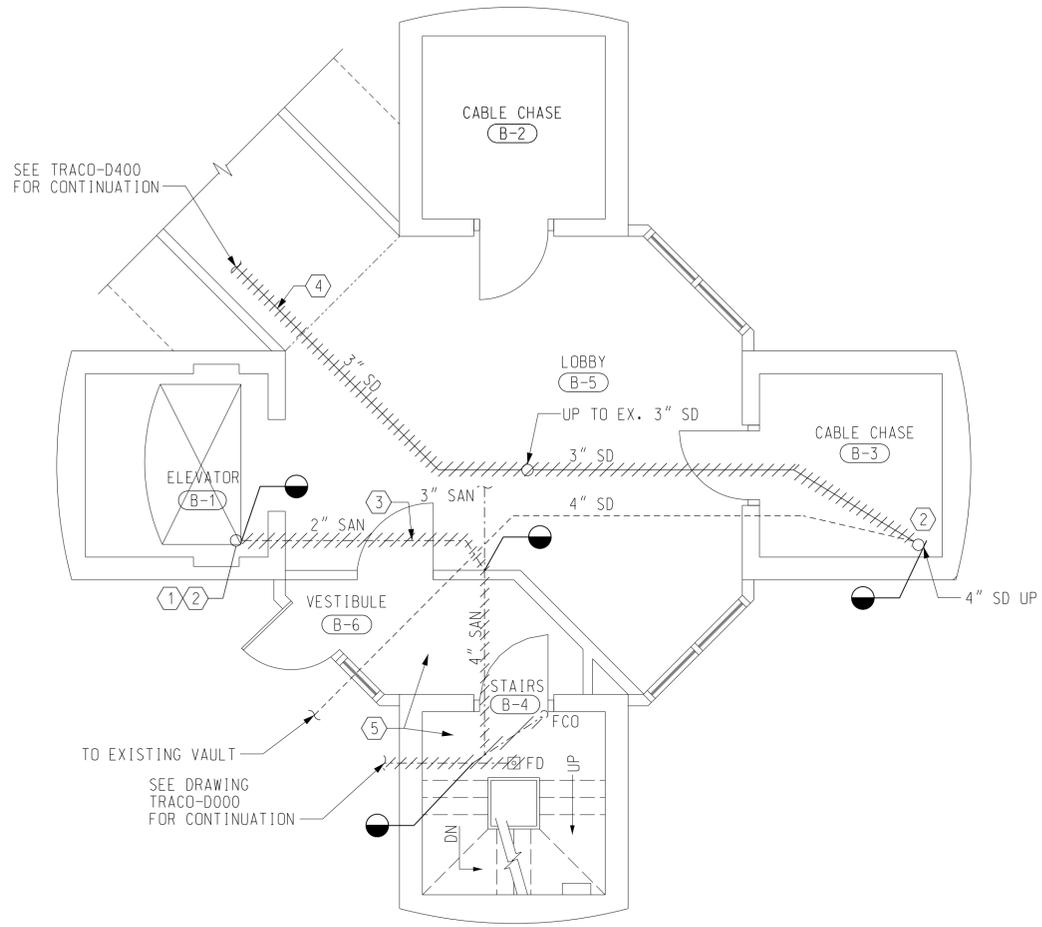


SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS MECHANICAL SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL - DEMOLITION FT LAUDERDALE (INTERNATIONAL) FL					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
	SUBMITTER'S TITLE - CIVIL ENGINEER		APPROVER'S TITLE - MANAGER		
DESIGNED	MDS	ISSUED BY	DATE	JCN	
DRAWN	CRK	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	
CHECKED	MDS		DRAWING NO		REV
				FLL-D-ATCT- D301	



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DEMOLITION NOTES

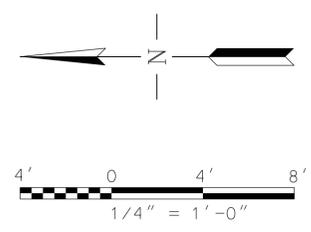
- ① EXISTING SUMP PUMP TO REMAIN. REPLACE ALL PIPE SERVED BY SUMP PUMP.
- ② TEE CONNECTING ROOF DRAINS TO STORM DRAIN STACK.
- ③ ALL WORK WITH THIS LINE IS UNDER SLAB. CONTRACTOR SHALL LOCATE LINE UNDER SLAB AND DEMOLISH UP TO 4" SAN MAIN. PATCH CONCRETE OR PROVIDE TEMPORARY COVER SO AS TO MAINTAIN EGRESS 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.

① **GROUND LEVEL DEMOLITION PLAN**
D400 SCALE: 1/4" = 1' - 0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
					
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS PLUMBING GROUND LEVEL PLAN - DEMOLITION					
FT LAUDERDALE (INTERNATIONAL) FL					
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
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	
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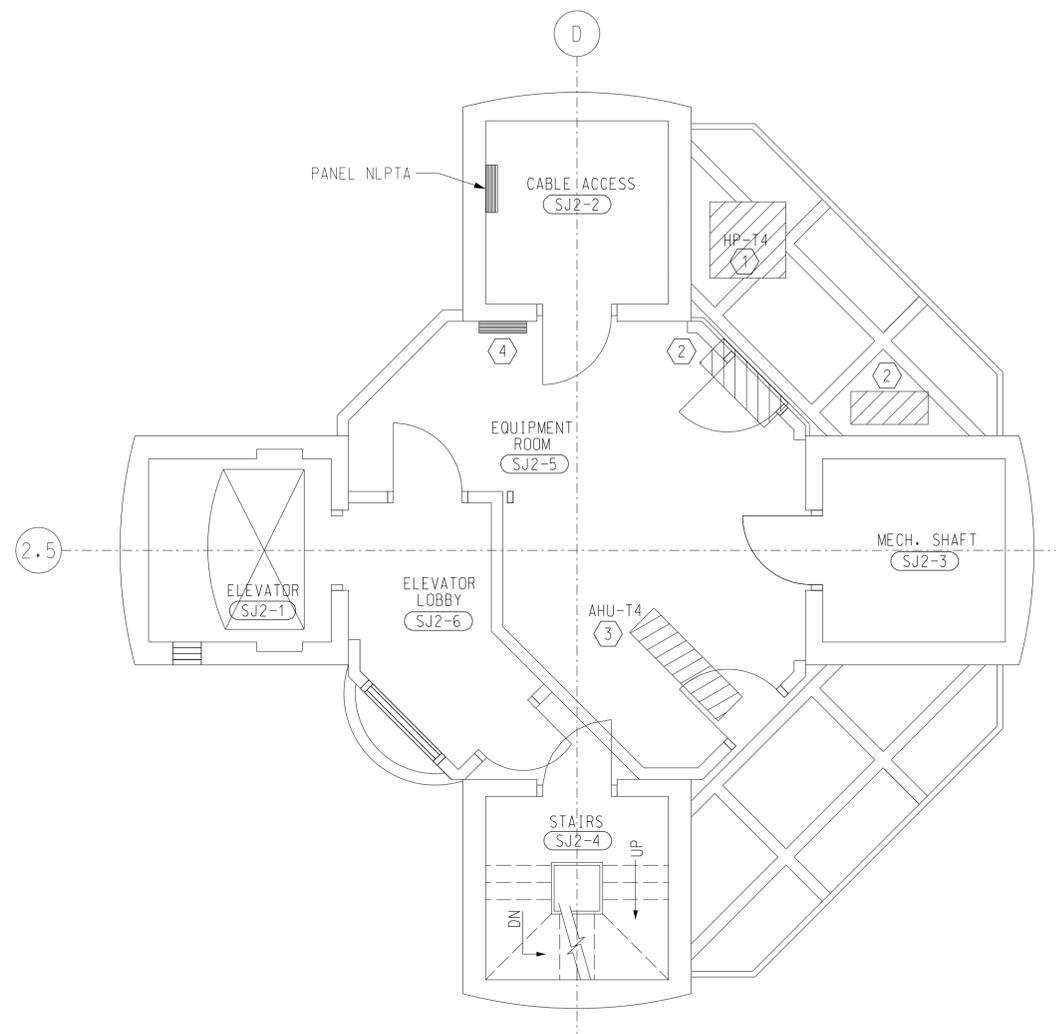


GENERAL NOTES

- 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.

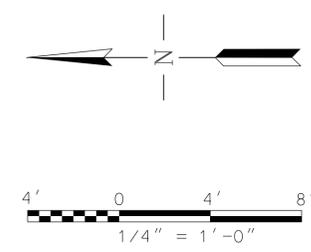
DEMOLITION NOTES

- 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.



1 SUBJUNCTION LEVEL TWO PLAN - DEMOLITION
D500 SCALE: 1/4" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
				REV	APPROVED DATE
				DESCRIPTION	JCN
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ELECTRICAL GROUND LEVEL AND SUBJUNCTION LEVEL 2 - DEMOLITION					
FT LAUDERDALE (INTERNATIONAL)				FL	
REVIEWED BY	SUBMITTED BY		APPROVED BY		
DESIGNED	MDS	ISSUED BY	DATE	JCN	REV
DRAWN	CRK	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	FLL-D-ATCT-D500
CHECKED	MDS				
WW JOB NUMBER: 219075.00					

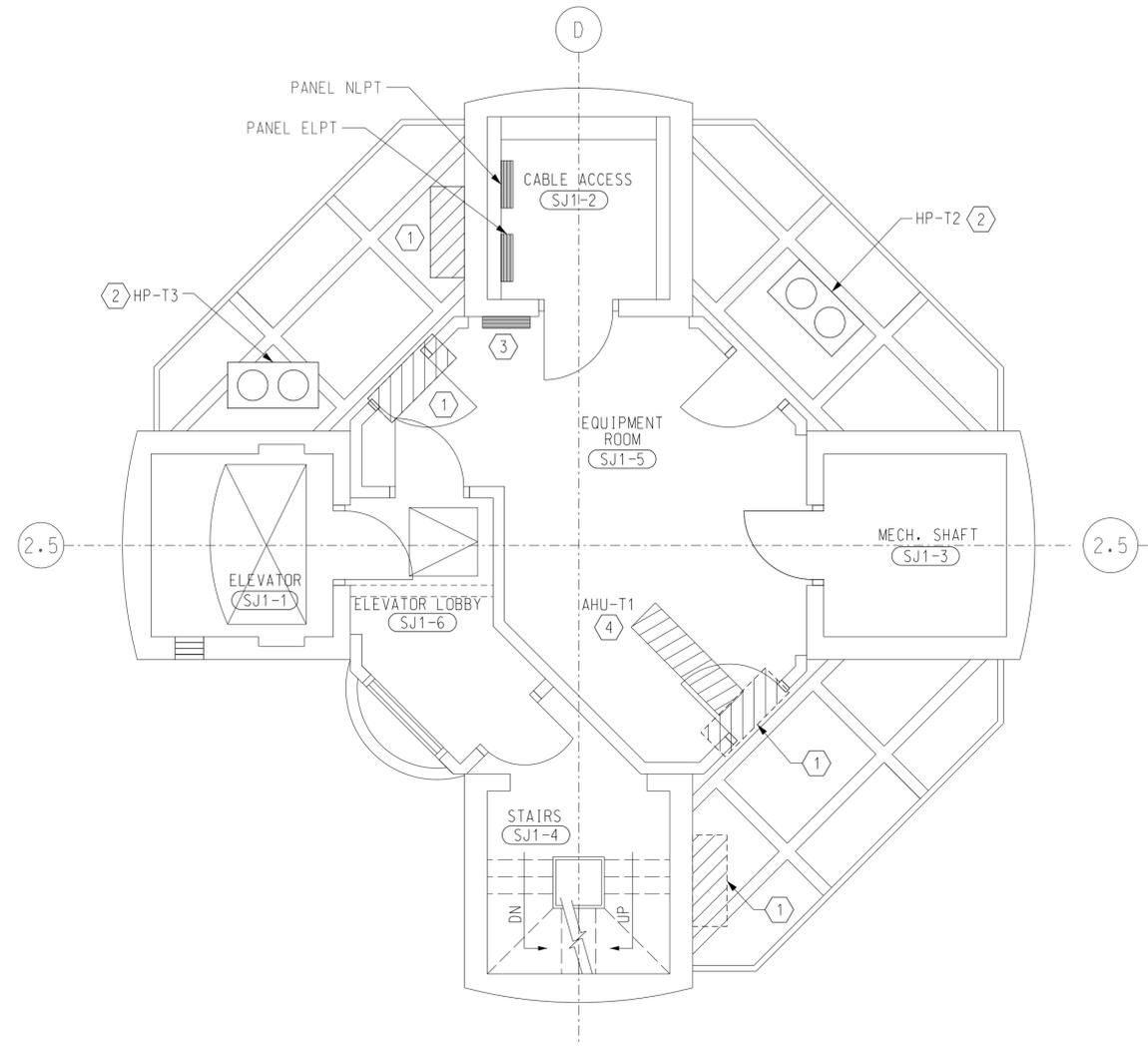


GENERAL NOTES

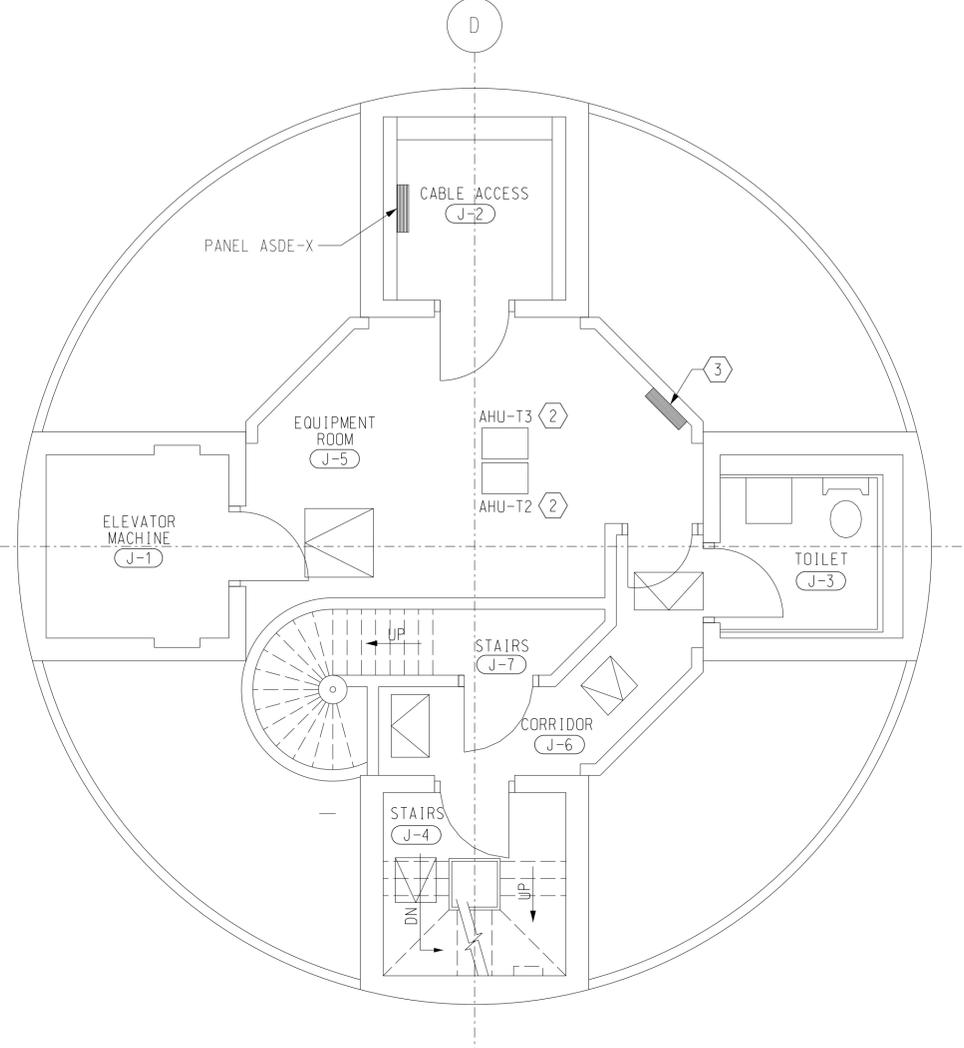
- A. EXISTING WORK SHOWN LIGHT SOLID LINE WITHOUT HATCHING SHALL REMAIN.
- B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.

DEMOLITION NOTES

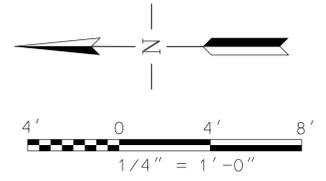
- ① REMOVE SPLIT- SYSTEM AND ASSOCIATED CONDENSING UNIT SERVED BY PANEL NLPT. DISCONNECT AND REMOVE ALL CONDUCTORS AND CONDUIT BACK TO PANEL. LABEL CIRCUIT BREAKER AS "SPARE" IN PANEL DIRECTORY.
- ② EXISTING EQUIPMENT TO REMAIN.
- ③ EXISTING DDC CONTROL PANEL TO BE REPLACED. CIRCUIT WIRING AND CONDUIT 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.



① SUBJUNCTION LEVEL ONE PLAN - DEMOLITION
 D501 SCALE: 1/4" = 1'-0"



② JUNCTION LEVEL PLAN - DEMOLITION
 D501 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

DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
 MAJOR IMPROVEMENTS
 ELECTRICAL
 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	MDS	ISSUED BY
DATE	JAN 31, 2020	JCN
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		FLL-D-ATCT- D501

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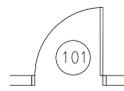
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DOOR NUMBER



2' X 4' LAY-IN ACOUSTICAL CEILING



GYPSUM BOARD PARTITION



2' X 2' LAY-IN ACOUSTICAL CEILING



PRECAST CONCRETE



SUSPENDED GYPSUM BOARD CEILING



WINDOW NUMBER



SUPPLY DIFFUSER



TYPICAL PARTITION TYPE



RETURN GRILLE



LOUVER NUMBER



EXHAUST GRILLE

8'-6" AFF

CEILING HEIGHT DESIGNATION



FLOOR HATCH



2' X 4' RECESSED FLUORESCENT LIGHTING FIXTURE



STEEL LADDER



2' X 2' RECESSED FLUORESCENT LIGHTING FIXTURE



SUMP



4' FLUORESCENT LIGHTING FIXTURE, SURFACE MOUNTED



FLOOR MOUNTED SERVICE SINK



2' FLUORESCENT LIGHTING FIXTURE, SURFACE MOUNTED



WALL MOUNTED SERVICE SINK



4' FLUORESCENT STRIP FIXTURE



LAVATORY IN COUNTERTOP



RECESSED FLUORESCENT/INCANDESCENT LIGHTING FIXTURE



LAVATORY WALL MOUNTED



RECESSED FLUORESCENT, WALL WASHER LIGHTING FIXTURE



URINAL



WALL-MOUNTED LIGHT FIXTURE



EXIT SIGN



WATER CLOSET FLOOR MOUNTED



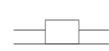
BLACKENED DOT INDICATES FIXTURE WITH EMERGENCY BATTERY PACK



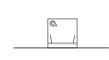
WATER CLOSET WALL MOUNTED



ROOM NUMBER TAG



ELECTRIC WATER COOLER WALL RECESSED



ELECTRIC WATER COOLER WALL HUNG (HANDICAP)



LOCKERS



HANDICAP DOOR OPERATOR

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



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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		
REVIEWED BY	SUBMITTED BY		APPROVED BY		
DESIGNED	GMR	ISSUED BY	DATE	JCN	
DRAWN	GMR	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	
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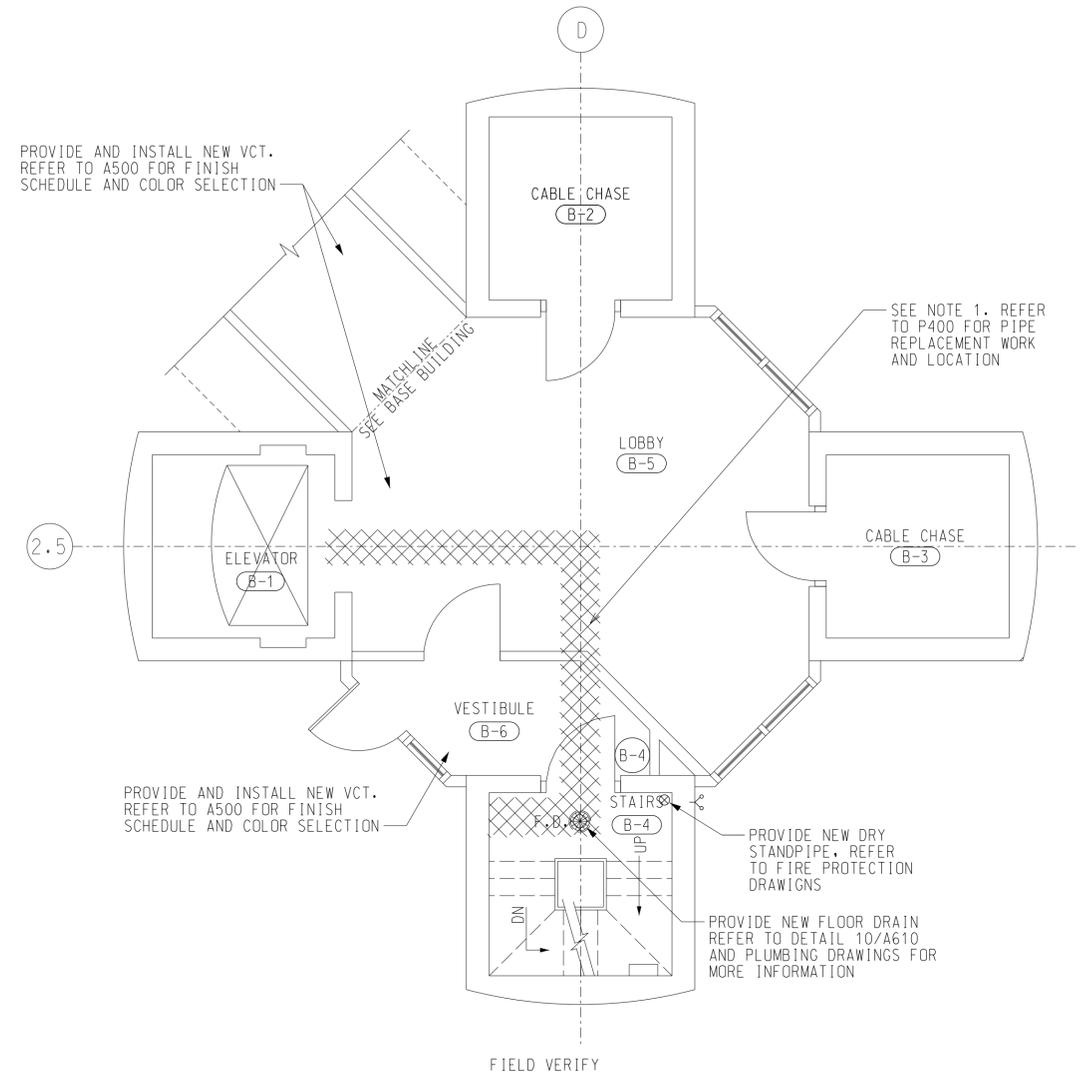
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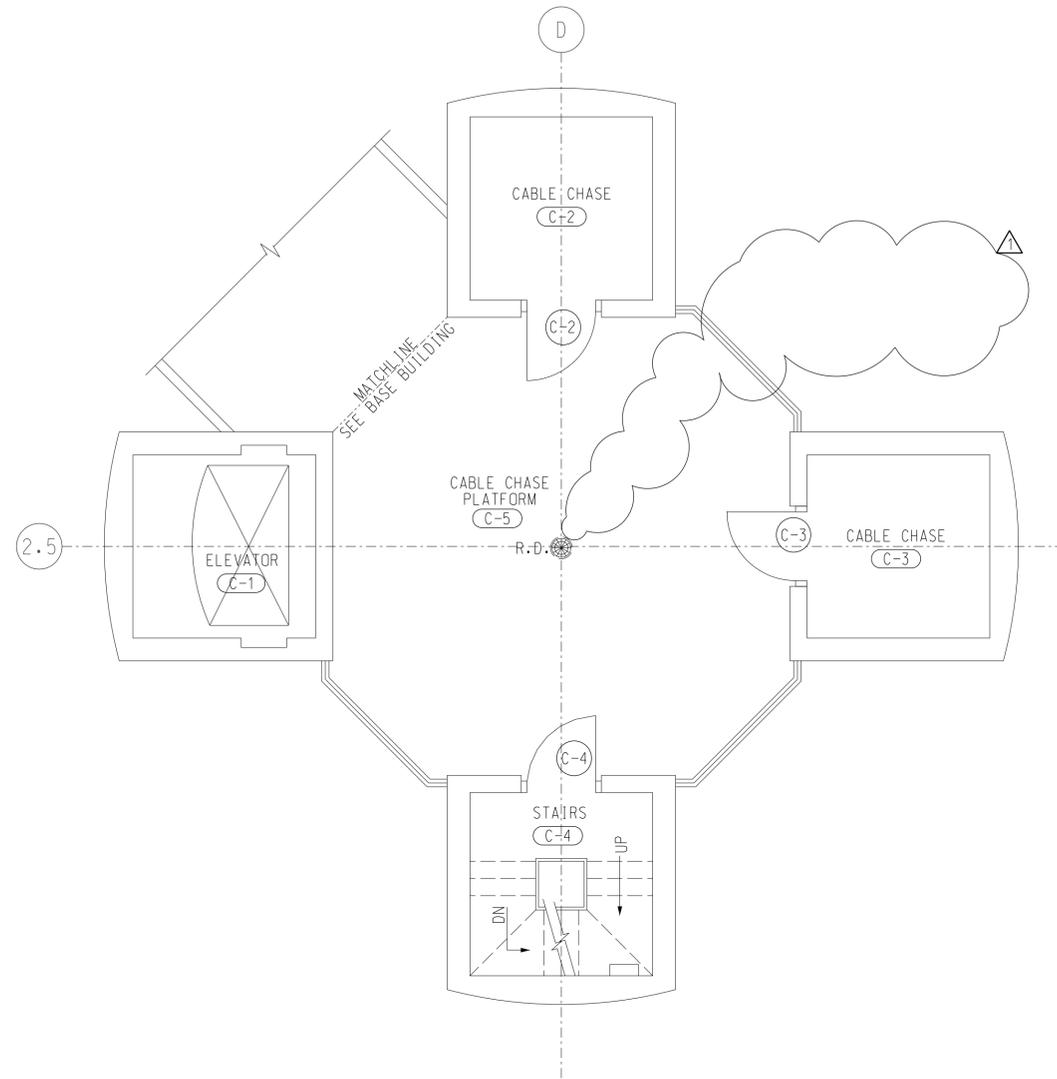
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NOTES

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

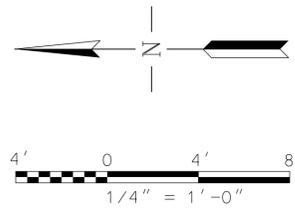


1 GROUND LEVEL FLOOR PLAN
A100 SCALE: 1/4" = 1' - 0"



2 SECOND LEVEL FLOOR PLAN
A100 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
△	08/05/2020	ISSUE FOR CONSTRUCTION			

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
DESIGNED	ISSUED BY	DATE
DRAWN	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020
CHECKED		JCN 1508912

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FLL-D-ATCT-A100

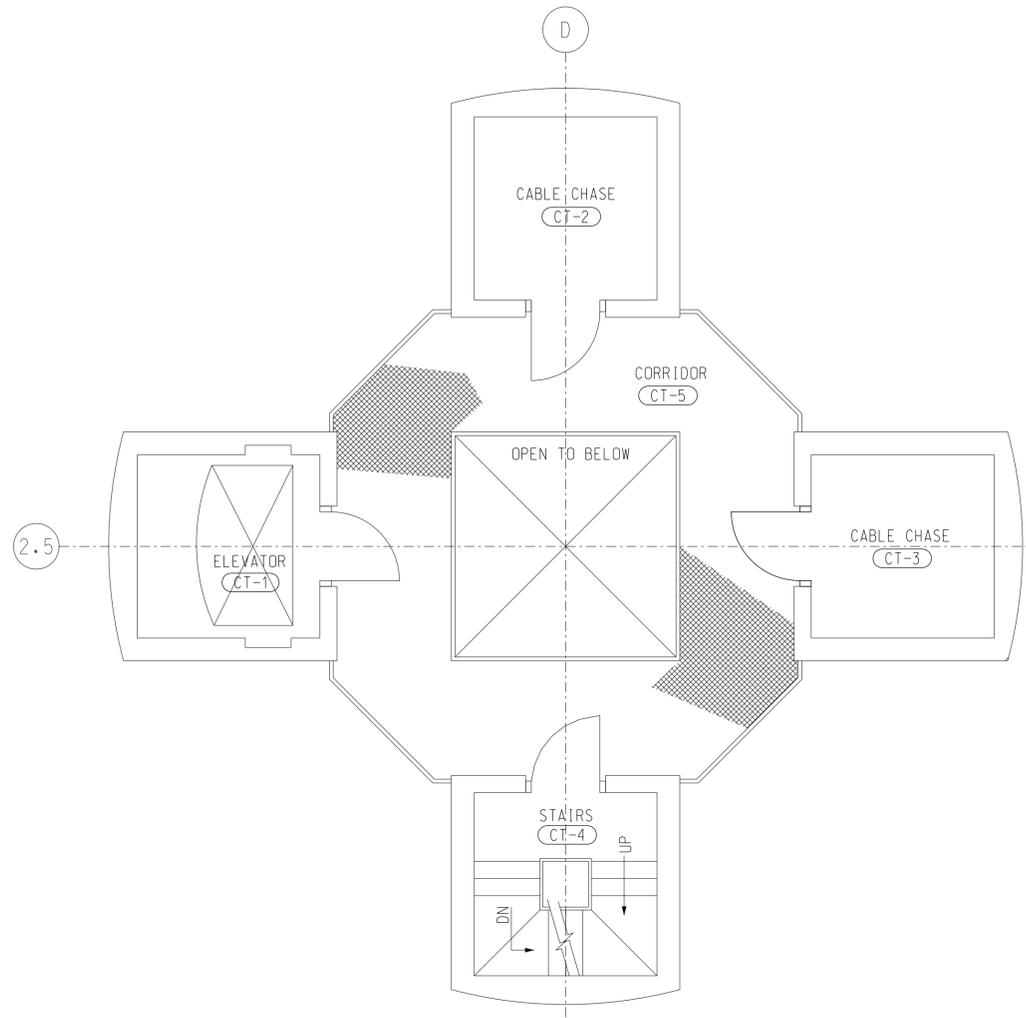


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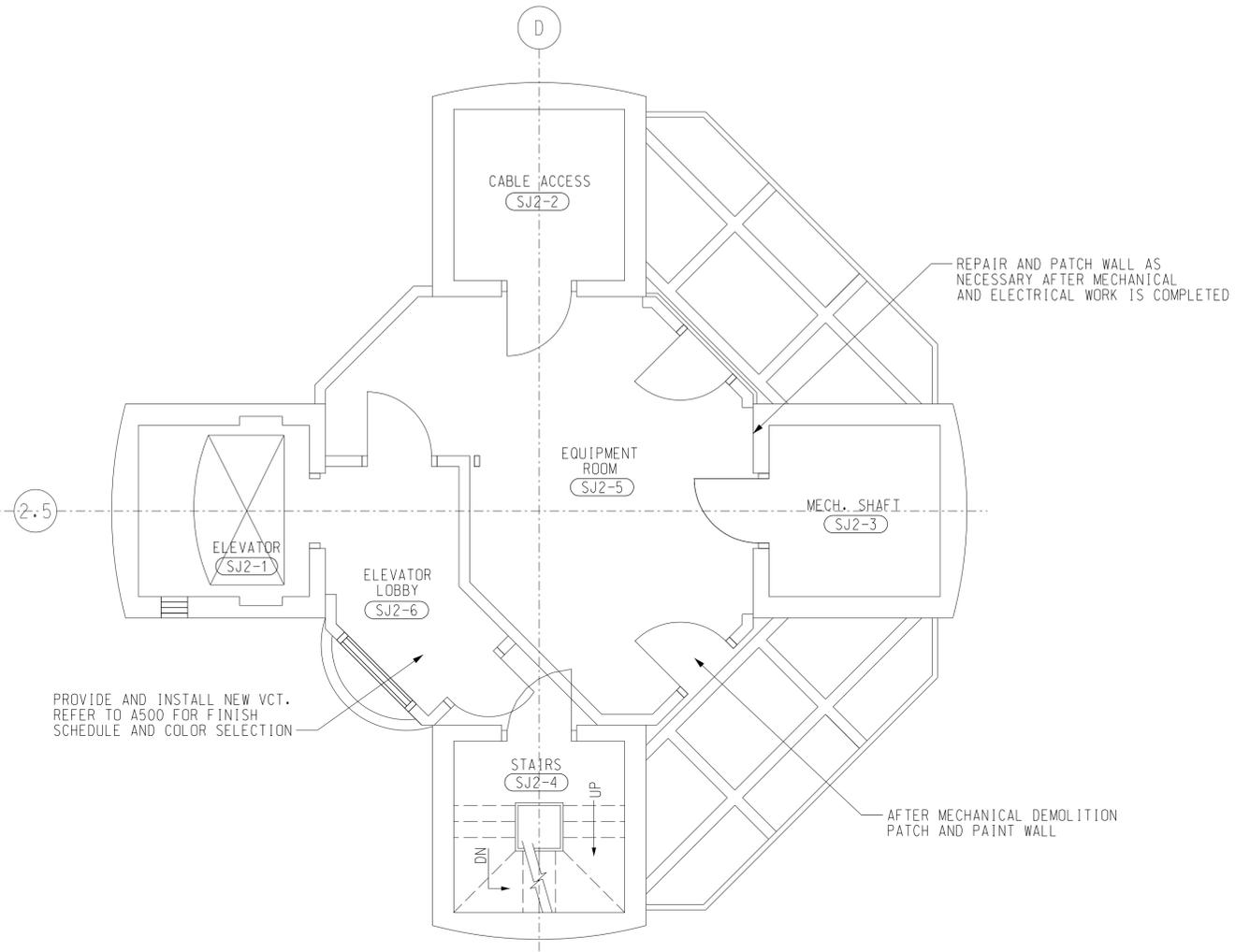
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1 TYP. CABLE ACCESS FLOOR PLAN
A101 SCALE: 1/4" = 1' - 0"

NO WORK TO BE DONE IN THESE LEVELS

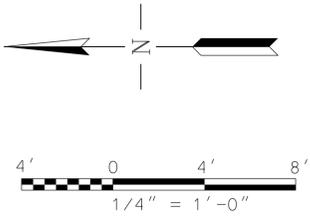


2 SUBJUNCTION LEVEL 2 FLOOR PLAN
A101 SCALE: 1/4" = 1' - 0"

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



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REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
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		
DESIGNED	GMR	ISSUED BY	DATE	JCN	
DRAWN	GMR	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	
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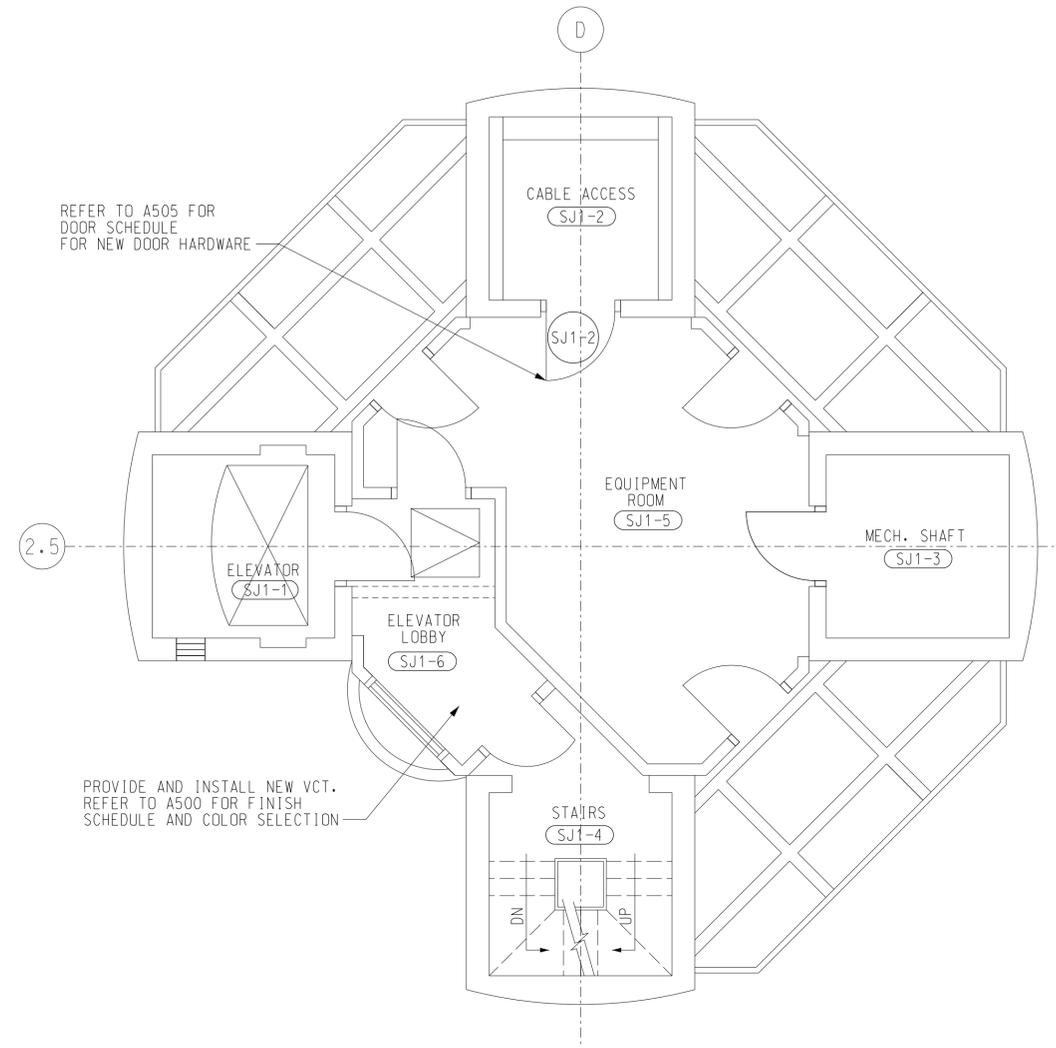
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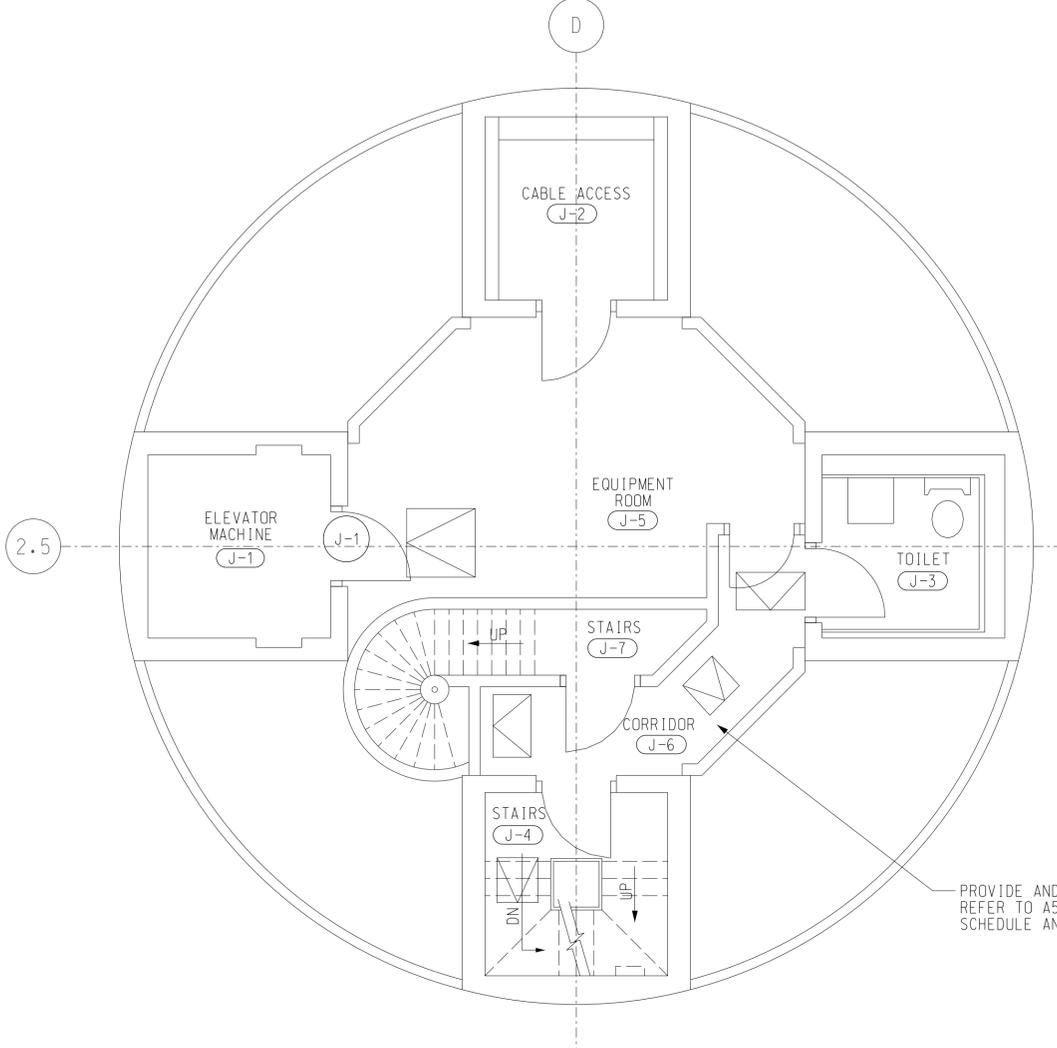
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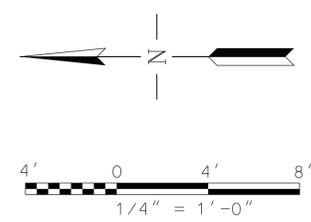
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1 SUBJUNCTION LEVEL 1 FLOOR PLAN
A102 SCALE: 1/4" = 1' - 0"
 SEE A121 FOR WORK ON THE UNDERSIDE OF THIS LEVEL



2 JUNCTION LEVEL FLOOR PLAN
A102 SCALE: 1/4" = 1' - 0"

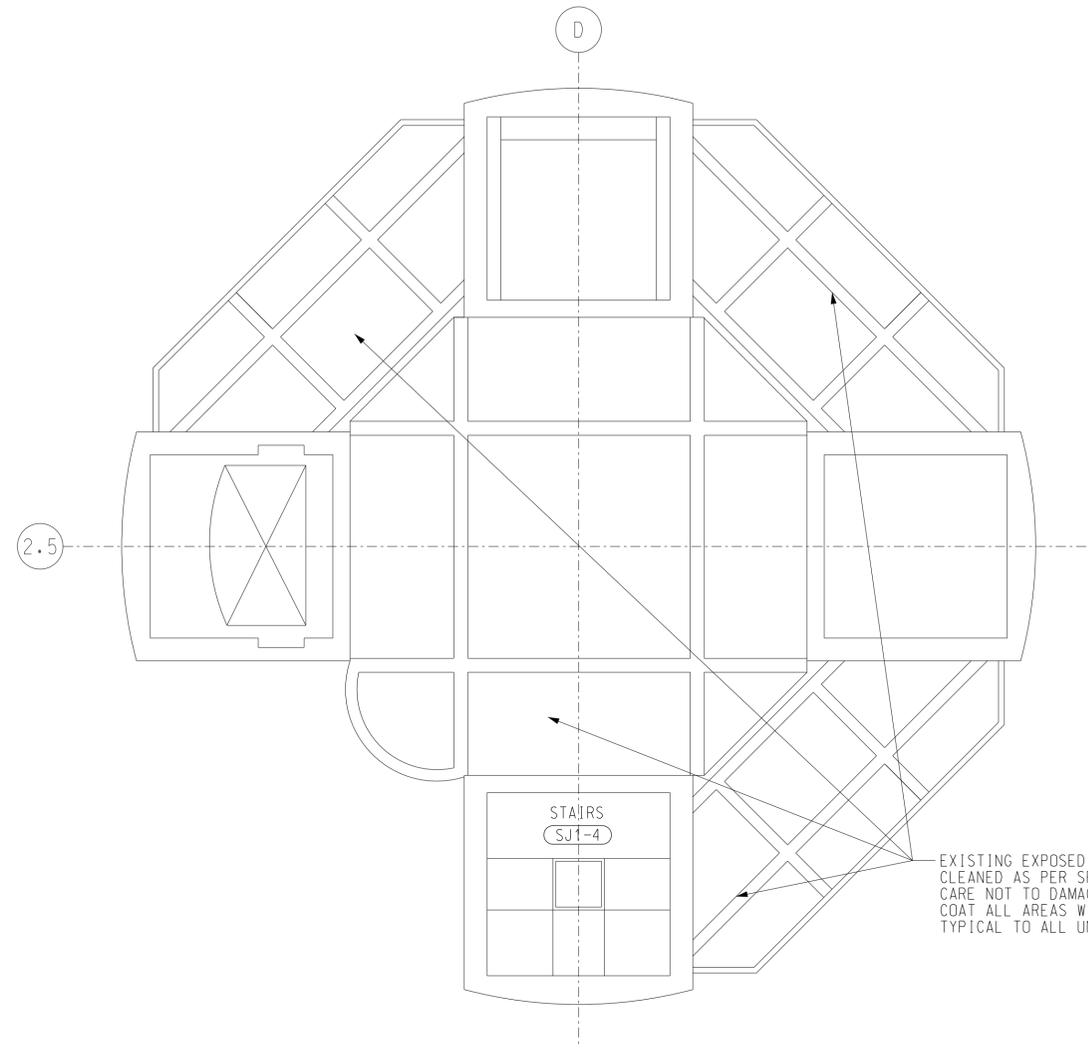


SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.					PAGE	OF
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						
FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ARCHITECTURAL SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL						
FT LAUDERDALE			(INTERNATIONAL)		FL	
REVIEWED BY	SUBMITTED BY		APPROVED BY			
DESIGNED	GMR	ISSUED BY	DATE	JCN	REV	
DRAWN	GMR	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912		
CHECKED	NXE		DRAWING NO		FLL-D-ATCT- A102	
WILEY WILSON 5901 Peachtree Dunwoody Rd. Bldg. C, Ste 515 Atlanta, Georgia 30328-6055 678.320.1888 wileywilson.com WW JOB NUMBER: 219075.00						

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EXISTING EXPOSED STRUCTURAL STEEL AND METAL DECK TO BE HANDTOOL CLEANED AS PER SPEC 05 12 13 SSPC-SP2 ON EXPOSED SIDES, TAKING CARE NOT TO DAMAGE EXISTING STRUCTURAL MEMBERS AND CONNECTIONS. COAT ALL AREAS WITH A ZINC RICH PRIMER PRIOR TO FINAL COAT. TYPICAL TO ALL UNDERSIDE OF SUBJUNCTION LEVEL 1 (7TH LEVEL).

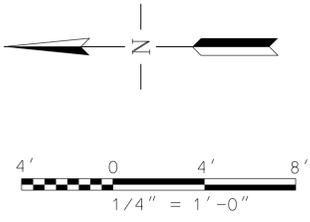
1 CABLE ACCESS 7TH LEVEL- RCP
A121 SCALE: 1/4" = 1' - 0"

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



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REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
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		
DESIGNED	GMR	ISSUED BY	DATE	JCN	REV
DRAWN	GMR	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	FLL-D-ATCT-A121
CHECKED	NXE				

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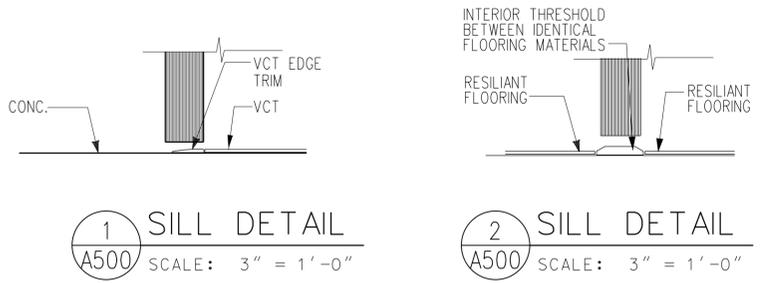
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ROOM FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	FINISH	HEIGHT	
FIRST LEVEL (GROUND)										
(B-5)	LOBBY	VCT-1	RB-1	P-1	P-1	P-1	P-1	-	-	REFER TO DETAIL 2/A500
(B-6)	VESTIBULE	VCT-1	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
SUBJUNCTION LEVEL 2										
(SJ2-6)	ELEVATOR LOBBY	VCT-1	RB-1	P-1	P-1	P-1	P-1	-	-	REFER TO DETAIL 1/A500
SUBJUNCTION 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	PAINT (P) P-1 SHERWIN WILLIAMS 6253 "OLYMPUS WHITE" P-2 SHERWIN WILLIAMS 7006 "EXTRA WHITE" (EXPOSED STRUCTURE ABOVE)
CPT-2 ELECTROSTATIC DISSIPATIVE TYPE CARPET, 24" X 24" SIZE. JULIE INDUSTRIES. COLOR: GALILEO - CONTEMPO #4070.	
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.



SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.		PAGE	OF
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ARCHITECTURAL FINISH SCHEDULE AND COLOR SELECTIONS			
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	
CHECKED	NXE	DRAWING NO. FLL-D-ATCT-A500	
WILSON Wiley Wilson 5901 Peachtree Dunwoody Rd. Bldg. C, Ste 515 Atlanta, Georgia 30328-6055 678.320.1888 wileywilson.com WW JOB NUMBER: 219075.00			

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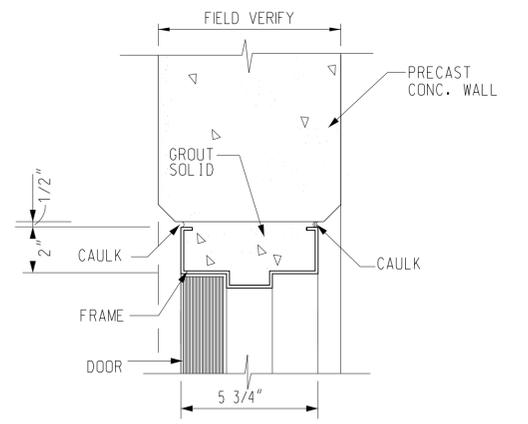
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DOOR SCHEDULE

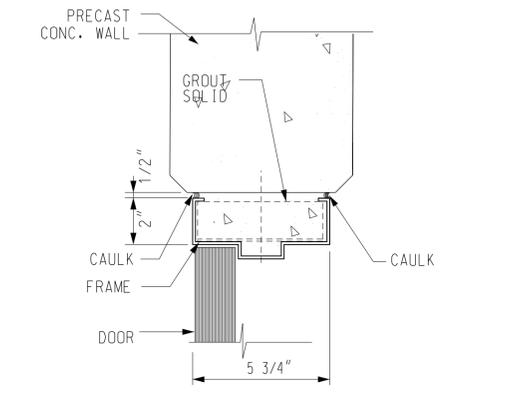
LEVEL/FLOOR	DOOR #	DOOR LOCATION	REMOVE EXIST AND INSTALL NEW DOOR AND FRAME	INSTALL NEW DOOR	NEW HARDWARE ONLY	DOOR SCHEDULE					FRAME SCHEDULE					HARDWARE SCHEDULE					SECURITY DOOR MATRIX					SIGN							
						WIDTH	HEIGHT	THICK.	MATERIAL	FINISH	TYPE	TYPE	MATERIAL	FINISH	PAIR HINGES TOTAL	DOOR CLOSER	WEATHER STRIP	LOCK SET TYPE	EXT. RATED	FIRE RATED	ELECTRONIC CARD READER	MAGNETIC CONTACT	ELECTRONIC STRIKE	GRADE-1 BEST CORE	LATCH GUARD	ASTRACAL	PERIMETER SEAL	RAIN DRIP	SWEEP	EMERGENCY EXIT SIGN	NOT AN EXIT SIGN	EXIT SIGN	FAA WARNING SIGN
GROUND	B-4	STAIRS			●	-	-	-	-	-	-	-	-	-	-	●	-	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JUNCTION	J-1	ELEVATOR MACHINE			●	-	-	-	-	-	-	-	-	-	-	●	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

DOOR HARDWARE DESCRIPTION

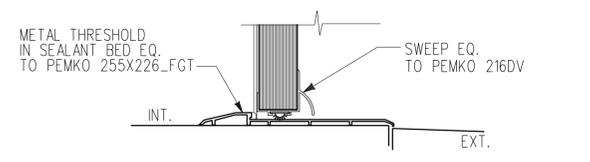
DESG.	FUNCTION	DESCRIPTION	OUTSIDE LEVER		INSIDE LEVER	
			LOCKED BY	UNLOCKED BY	LOCKED BY	UNLOCKED BY
● P	PASSAGE	TURNING THE INSIDE LEVER, OR ROTATING THE OUTSIDE LEVER	CANNOT BE LOCKED	ALWAYS UNLOCKED	CANNOT BE LOCKED	ALWAYS UNLOCKED
● D	STOREROOM	TURNING THE KEY IN THE OUTSIDE LEVER, OR ROTATING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



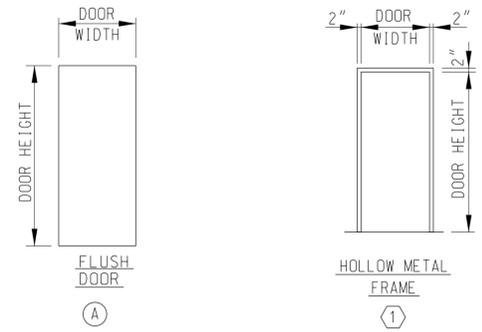
1 DOOR HEAD
A505 SCALE: 3" = 1'-0"



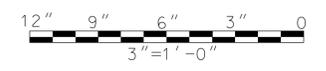
2 JAMB DET.
A505 SCALE: 3" = 1'-0"



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



1 DOOR AND FRAME TYPE
A505 NOT TO SCALE



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

08/05/2020 ISSUE FOR CONSTRUCTION

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

DESIGNED GMR ISSUED BY DATE JAN 31, 2020 JCN 1508912

DRAWN GMR ATLANTA TERMINAL ENGINEERING CENTER DRAWING NO. FLL-D-ATCT-A505

CHECKED NXE

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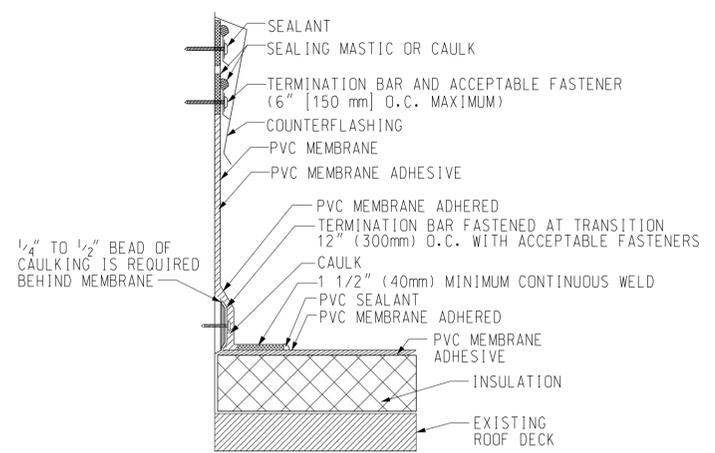
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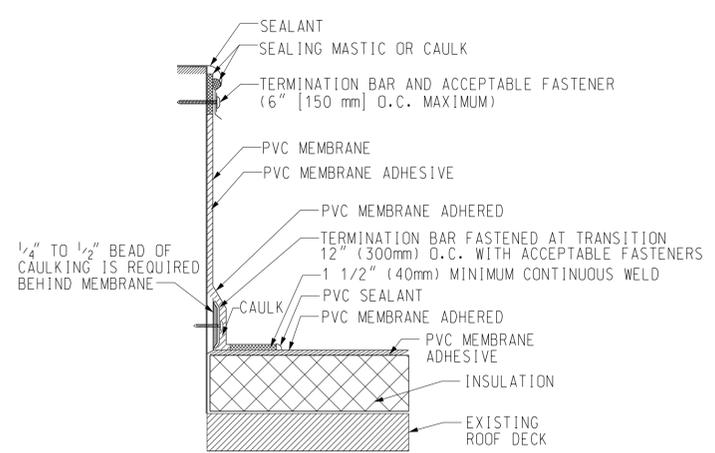
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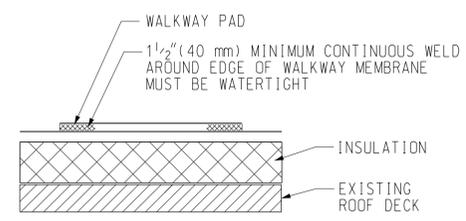
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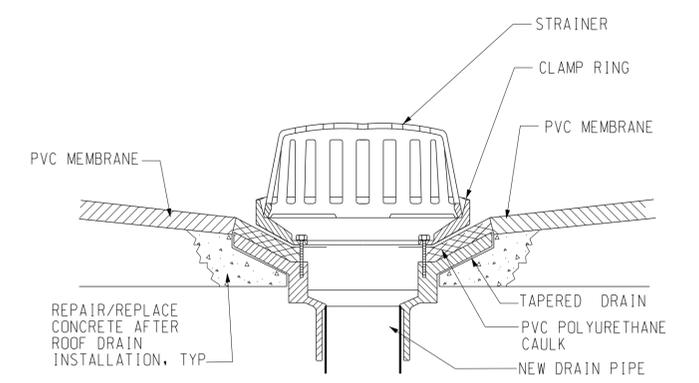
1 VERTICAL FLASHING DETAIL
A610 NOT TO SCALE



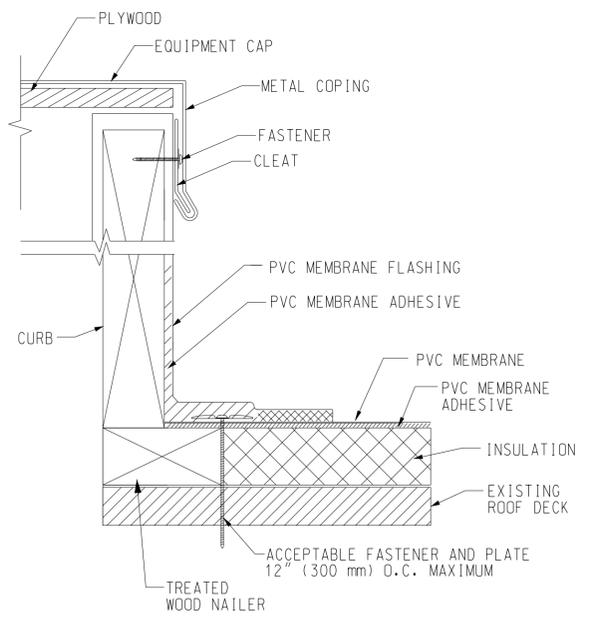
2 OUTSIDE FLASHING DETAIL
A610 NOT TO SCALE



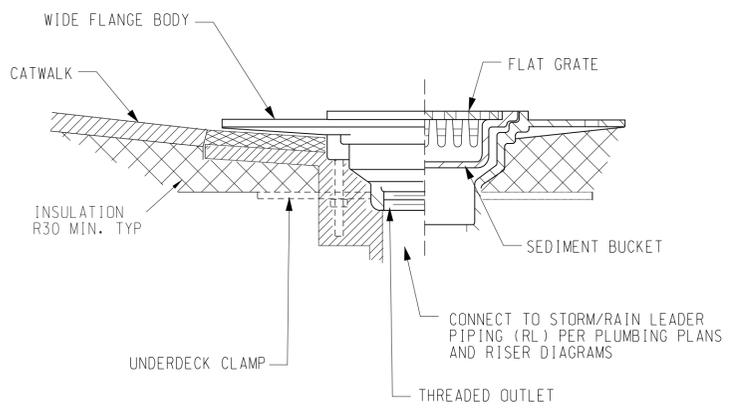
3 WALKWAY PAD DETAIL
A610 NOT TO SCALE



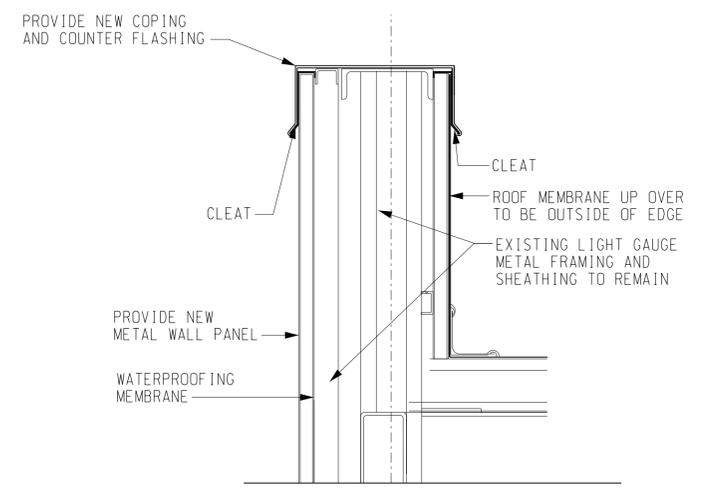
4 DRAIN DETAIL
A610 SCALE: NONE



5 CURB CAP DETAIL
A610 NOT TO SCALE



6 DRAIN AND SUMP DETAIL
A610 NOT TO SCALE



7 CAB PARAPET DETAIL
A610 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 LESSER
LICENSED PROFESSIONAL ARCHITECT
REGISTERED ARCHITECT
02/03/2020

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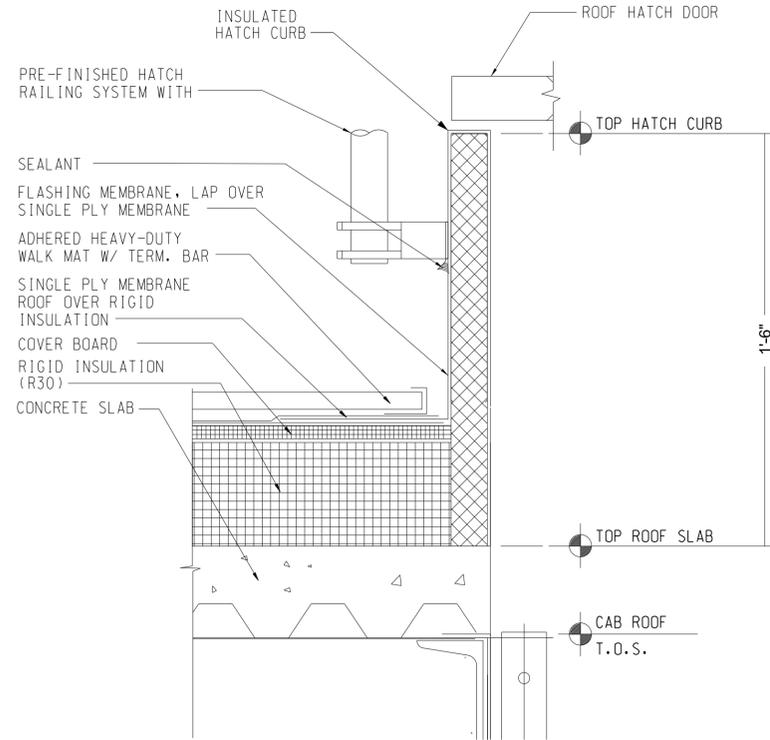
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

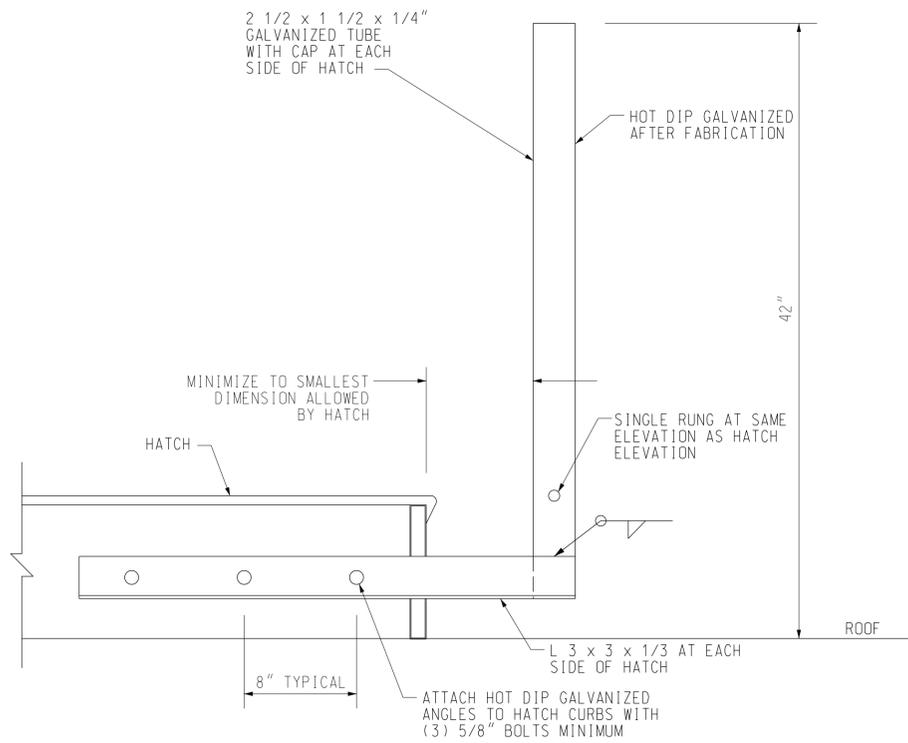
FT LAUDERDALE (INTERNATIONAL) FL

REVIEWED BY	SUBMITTED BY	APPROVED BY
DESIGNED	ISSUED BY	DATE
DRAWN	ATLANTA TERMINAL ENGINEERING CENTER	JCN
CHECKED		DRAWING NO

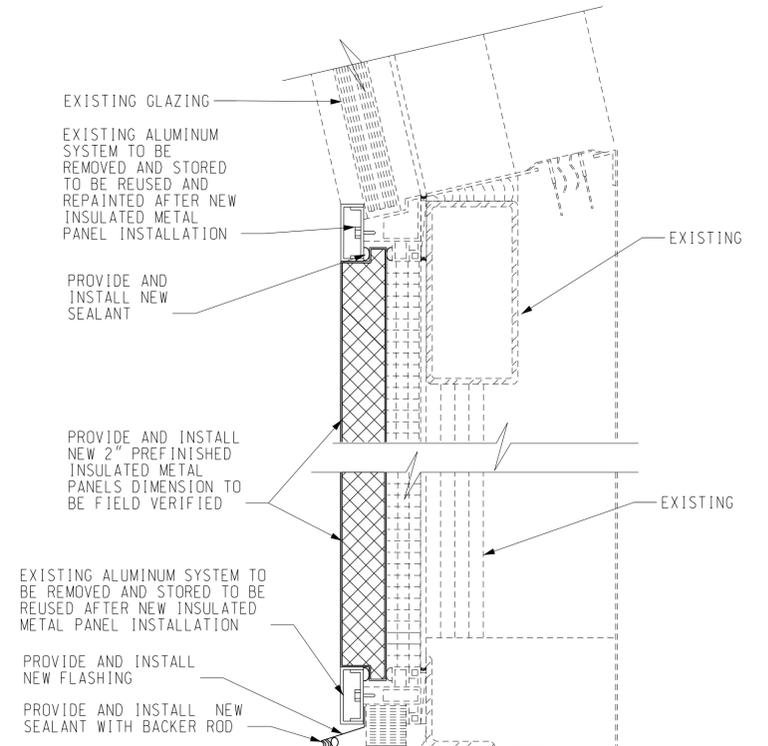
FLL-D-ATCT-A610



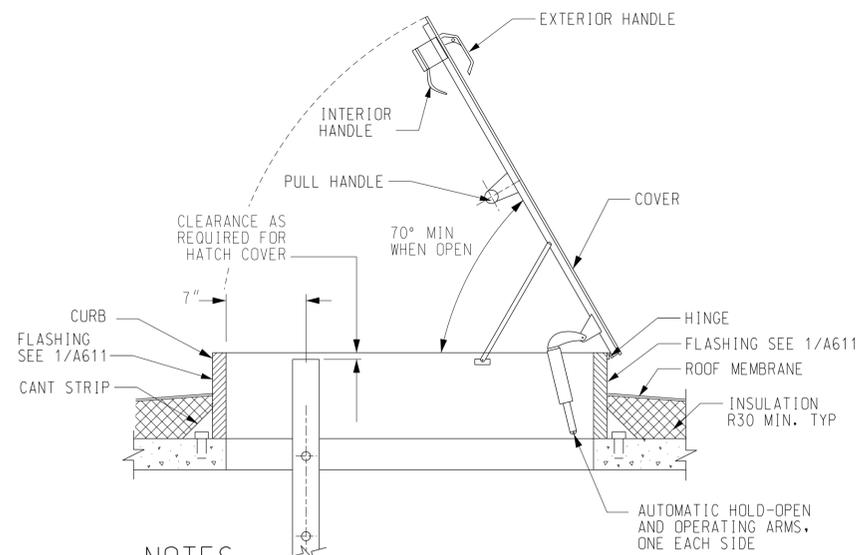
1 ROOF HATCH CURB DETAILS
A611 NOT TO SCALE



2 GRAB BARS ATTACHED TO HATCH FRAME
A611 NOT TO SCALE



4 METAL PANEL DETAIL
A611 SCALE: 3" = 1' - 0"



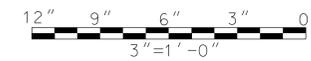
- NOTES
- HATCH WIDTH 24" MIN FROM FACE - FACE OF OPERATING ARMS.
 - GRAB BAR NOT SHOWN FOR CLARITY.

3 COUNTERBALANCED HATCH COVER AT ROOF
A611 NOT TO SCALE

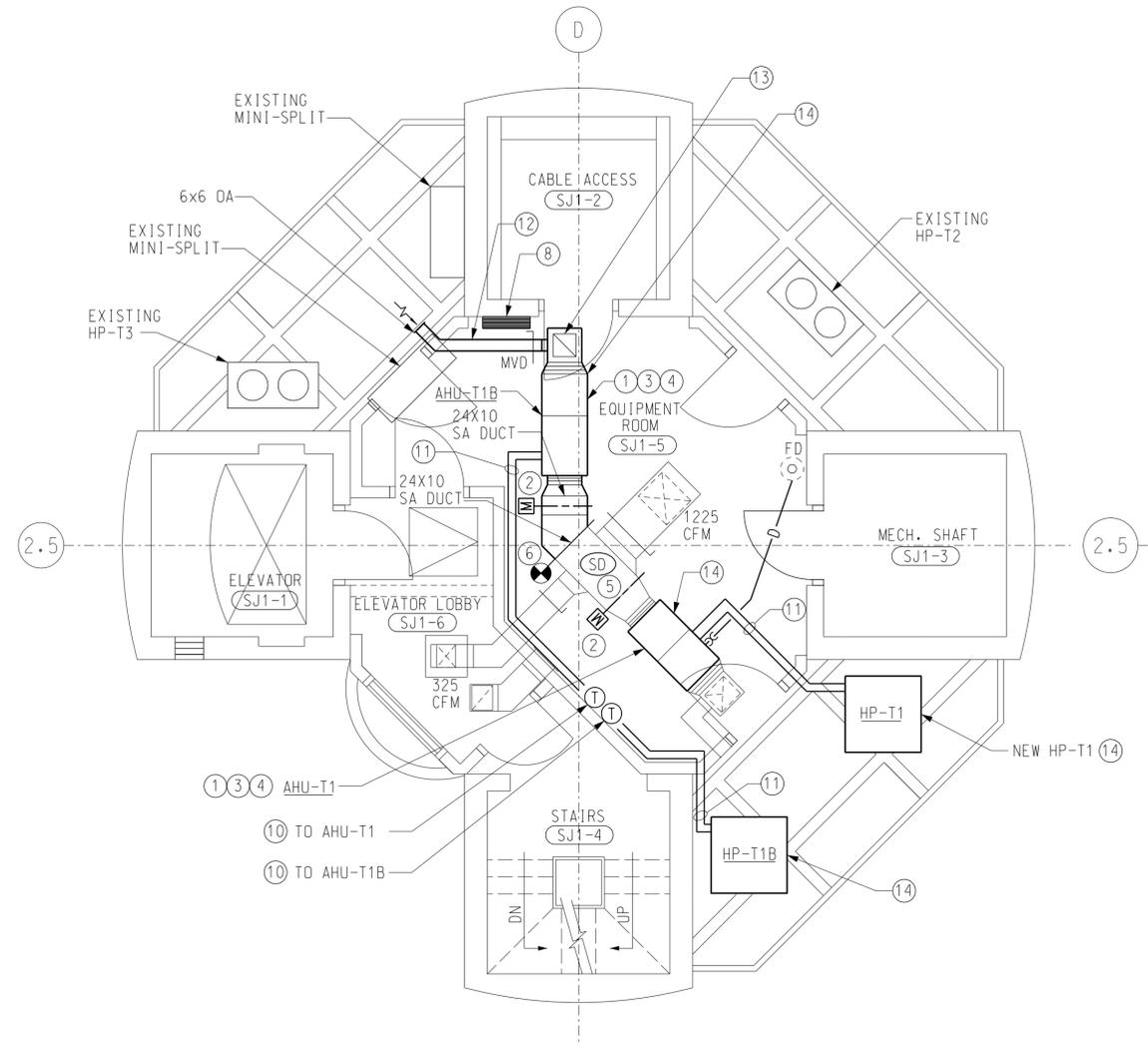
INSULATED METAL PANEL NOTES

- CONTRACTOR SHALL COORDINATE WITH FAA COR IF EXISTING CONDITIONS ARE NOT DEPICTED IN DRAWINGS.
- 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.
- 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.

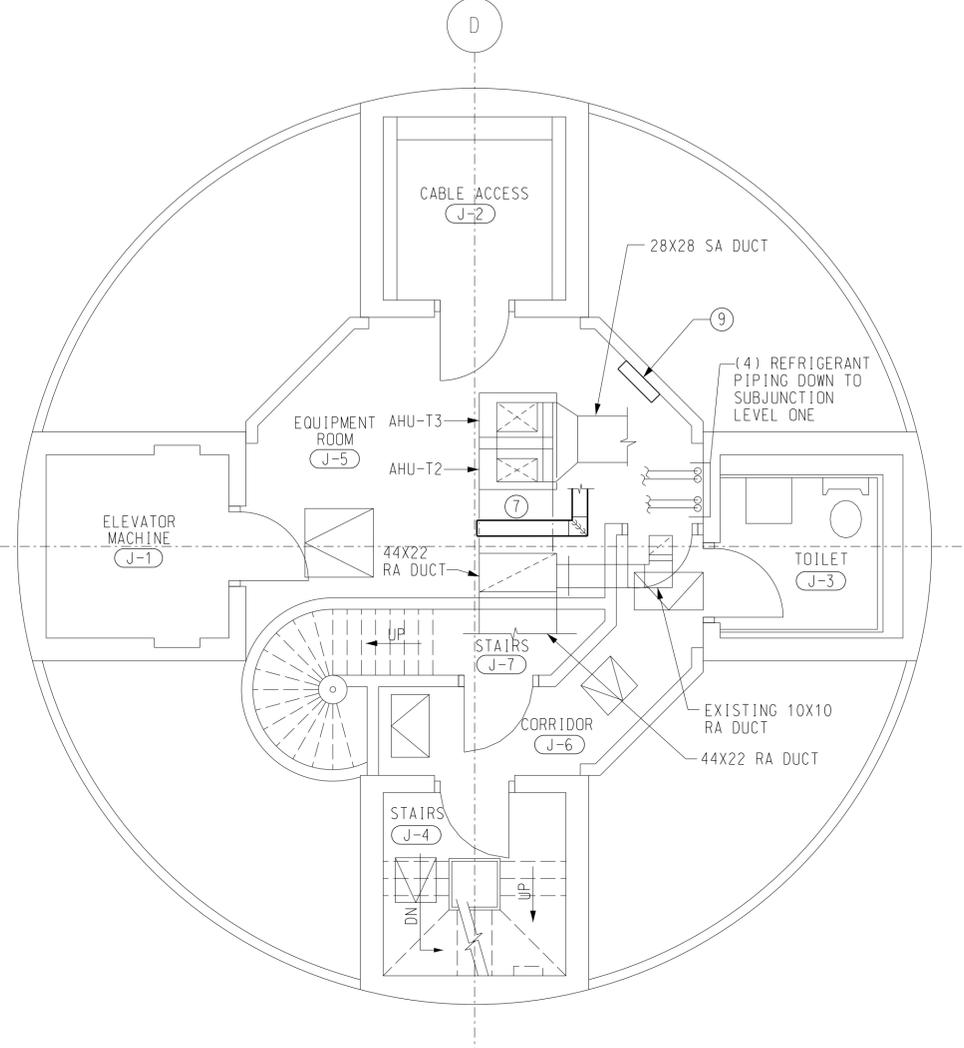
SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.		PAGE	OF
REV	APPROVED DATE	DESCRIPTION	JCN REDLINE DATE APVD
Δ	08/05/2020	ISSUE FOR CONSTRUCTION	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ARCHITECTURE CATWALK HATCH AND CAB DETAILS FT LAUDERDALE (INTERNATIONAL) FL			
		REVIEWED BY SUBMITTED BY APPROVED BY	SUBMITTER'S TITLE - CIVIL ENGINEER APPROVER'S TITLE - MANAGER DATE JAN 31, 2020 JCN 1508912 DRAWING NO. FLL-D-ATCT-A611



FILES 8/24/20



1 SUBJUNCTION LEVEL 1 PLAN - HVAC
M101 SCALE: 1/4" = 1'-0"



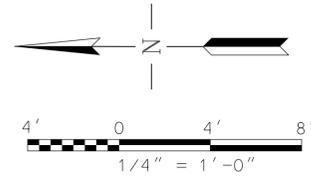
2 JUNCTION LEVEL PLAN - HVAC
M101 SCALE: 1/4" = 1'-0"

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

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
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	
CHECKED JUS				FLL-D-ATCT-M101	

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 Bldg. C, Ste 515
 Atlanta, Georgia 30328-6055
 678.320.1888
 wileywilson.com

WW JOB NUMBER: 219075.00

SPLIT SYSTEM HEAT PUMP SCHEDULE

AIR HANDLING UNIT (INDOOR)														HEAT PUMP UNIT (OUTDOOR)																					
AIRFLOW					COIL PERFORMANCE									ELECTRIC HEAT				ELECTRIC DATA						ELECTRIC DATA				UNIT AMPACITY (AMP)		LOCATION		MAKE AND MODEL		REMARKS	
MARK	SA CFM	DA CFM	ESP (IN WG)	FAN HP	COOLING @ 95°F AMBIENT						HEATING @ 47°F			kW	ELECTRIC DATA			LOCATION	MAKE AND MODEL	MARK	MINIMUM SEER	HSPF	ELECTRIC DATA			UNIT AMPACITY (AMP)	LOCATION	MAKE AND MODEL	REMARKS						
					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)		VOLTS	PH	HZ						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	YORK AE60DX21	HP-T1	14	8.2	208	3	60	21.22	PLATFORM, SUBJUNCTION TWO	YORK THE60B315	① THRU ⑱						
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	YORK AE60DX21	HP-T1B	14	8.2	208	3	60	21.22	PLATFORM, SUBJUNCTION TWO	YORK THE60B315	① THRU ⑱						
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	YORK AE60DX21	HP-T4	14	8.2	208	3	60	21.22	PLATFORM, SUBJUNCTION TWO	YORK THE60B315	① THRU ⑱						
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	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



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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
HVAC SCHEDULES**

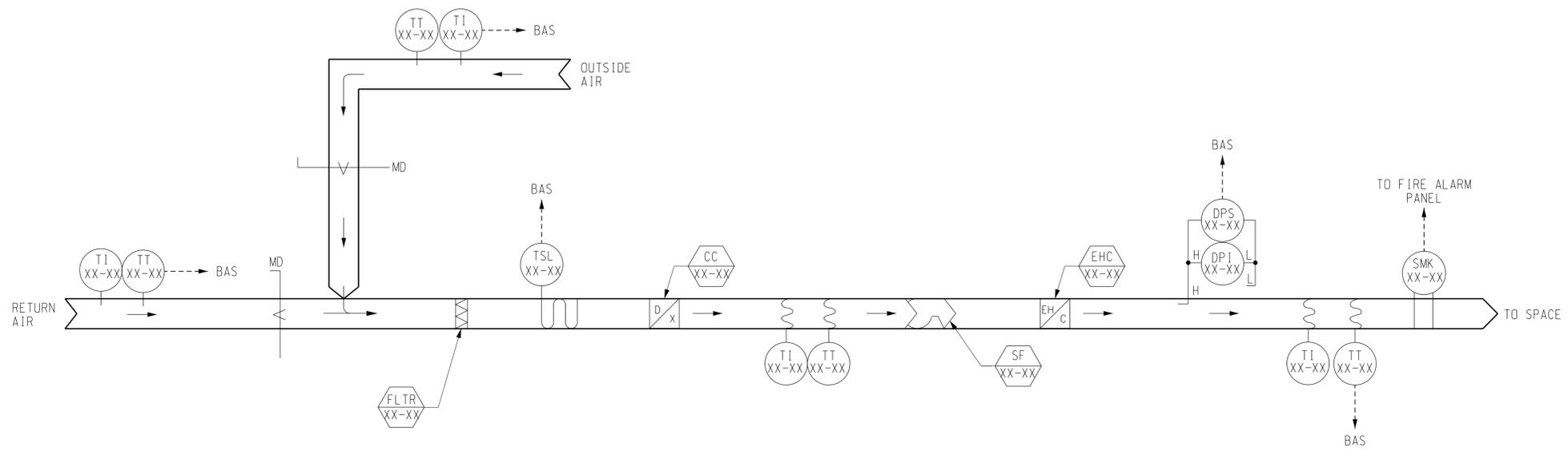
FT LAUDERDALE (INTERNATIONAL) FL

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FLL-D-ATCT-M500

FILES 8/21/2020 8:15:00 AM

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



1 CONTROL SYSTEM DIAGRAM - AHUs-T1/T1B, T4/T4B
M800 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
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	
DESIGNED JJS		ISSUED BY		DATE JAN 31, 2020 JCN 1508912	
DRAWN CRK		ATLANTA TERMINAL ENGINEERING CENTER		DRAWING NO	
CHECKED JJS				REV	
				FLL-D-ATCT-M800	

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FILES BOWLES STIMES BOWLES

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. 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. 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	
	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
AHU-T1/HP-T1 AHU-T1B/HP-T1B AHU-T2/HP-T2 AHU-T3/HP-T3 AHU-T4/HP-T4 AHU-T4B/HP-T4B												
SPACE	X	X										
SUPPLY AIR FILTER		X										
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					X	
MOTORIZED ISOLATION DAMPER					X		X	X				
AUXILIARY HEAT					X						X	

INPUT - OUTPUT SUMMARY

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

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DESCRIPTION: _____ JCN: _____ REDLINE DATE: _____

APPROVED BY: _____

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: _____

DESIGNED: JUS ISSUED BY: _____ DATE: JAN 31, 2020 JCN: 1508912

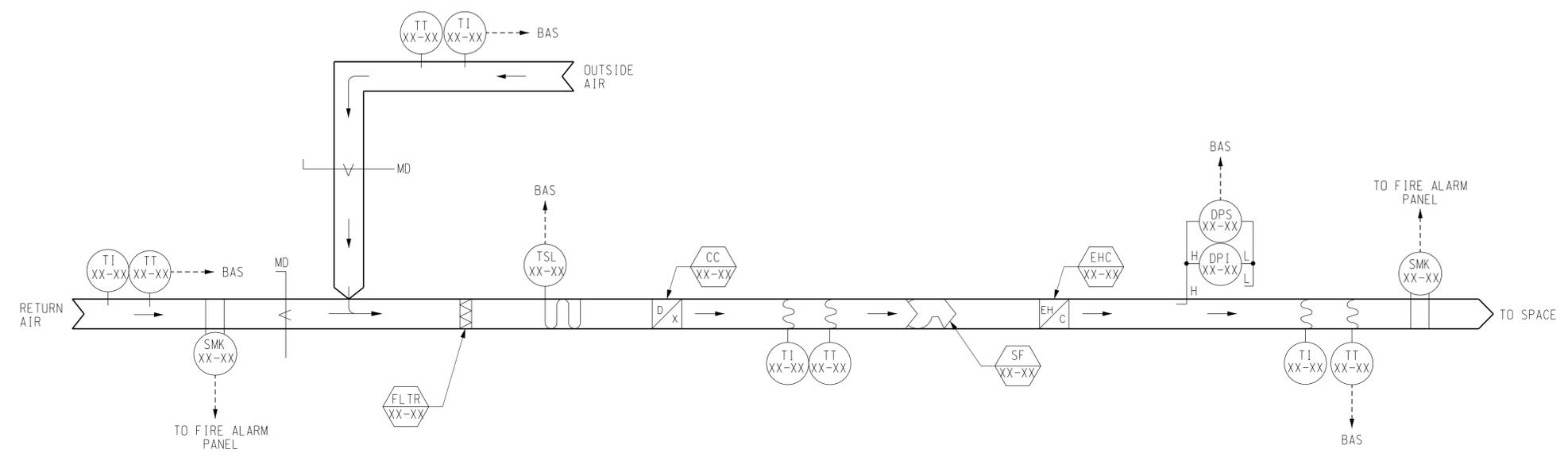
DRAWN: CRK ATLANTA TERMINAL ENGINEERING CENTER DRAWING NO: _____

CHECKED: JUS _____

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FILES: 8/21/2020 11:05:00 AM

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



1 CONTROL SYSTEM DIAGRAM - FCU-T2 AND FCU-T3
M801 NOT TO SCALE

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

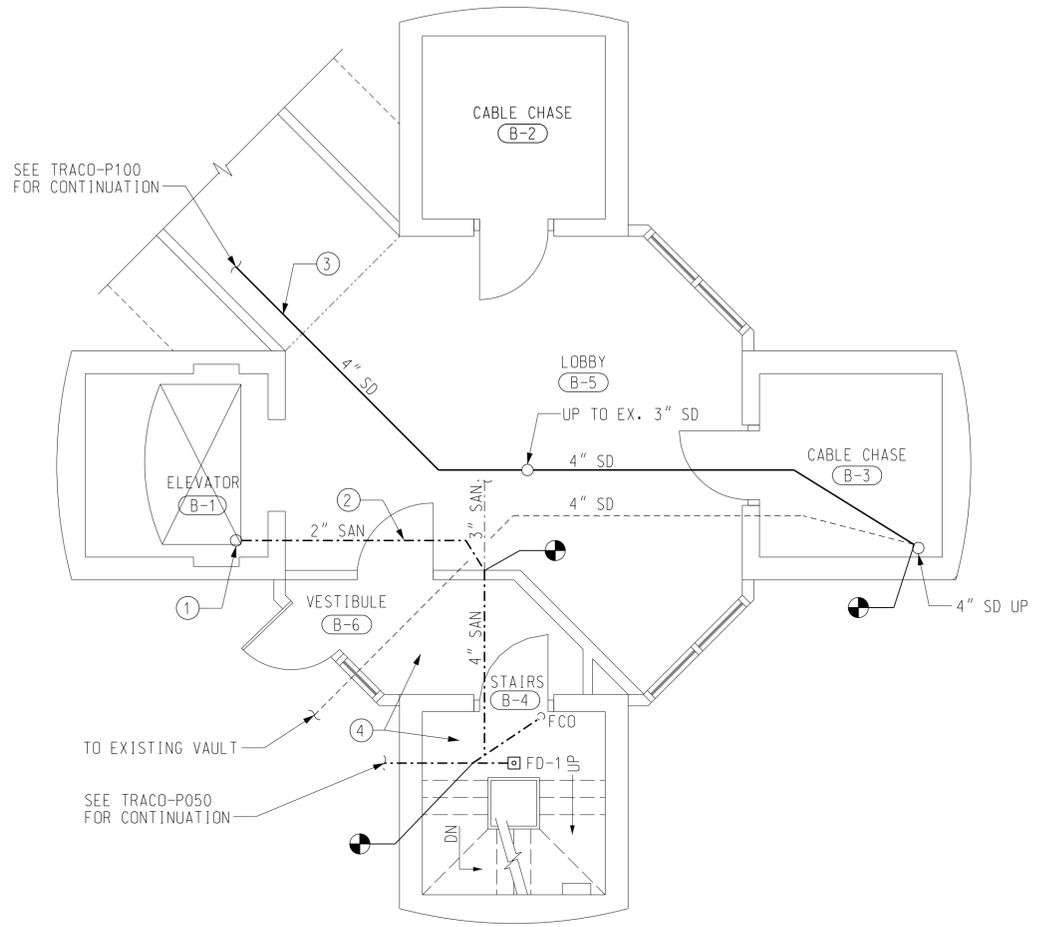
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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS MECHANICAL CONTROL SYSTEM DIAGRAM FCU-T2 AND FCU-T3 FT LAUDERDALE (INTERNATIONAL) FL					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
DESIGNED	JJS	ISSUED BY	DATE	JCN	REV
DRAWN	CRK	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	FLL-D-ATCT-M802
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STIMES
BUNAGES



1 GROUND LEVEL PLUMBING PLAN
P400 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

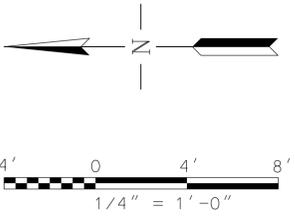
- A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN AS LIGHT DASHED LINE.
- B. SEE TRACO-P000 FOR GENERAL NOTES AND SYMBOLS. SEE TOWB-G010 AND TOWB-G011 FOR ABBREVIATIONS.
- C. PIPE TO BE OF MATERIALS DESCRIBED IN AND SHALL BE INSTALLED PER SPECIFICATIONS.

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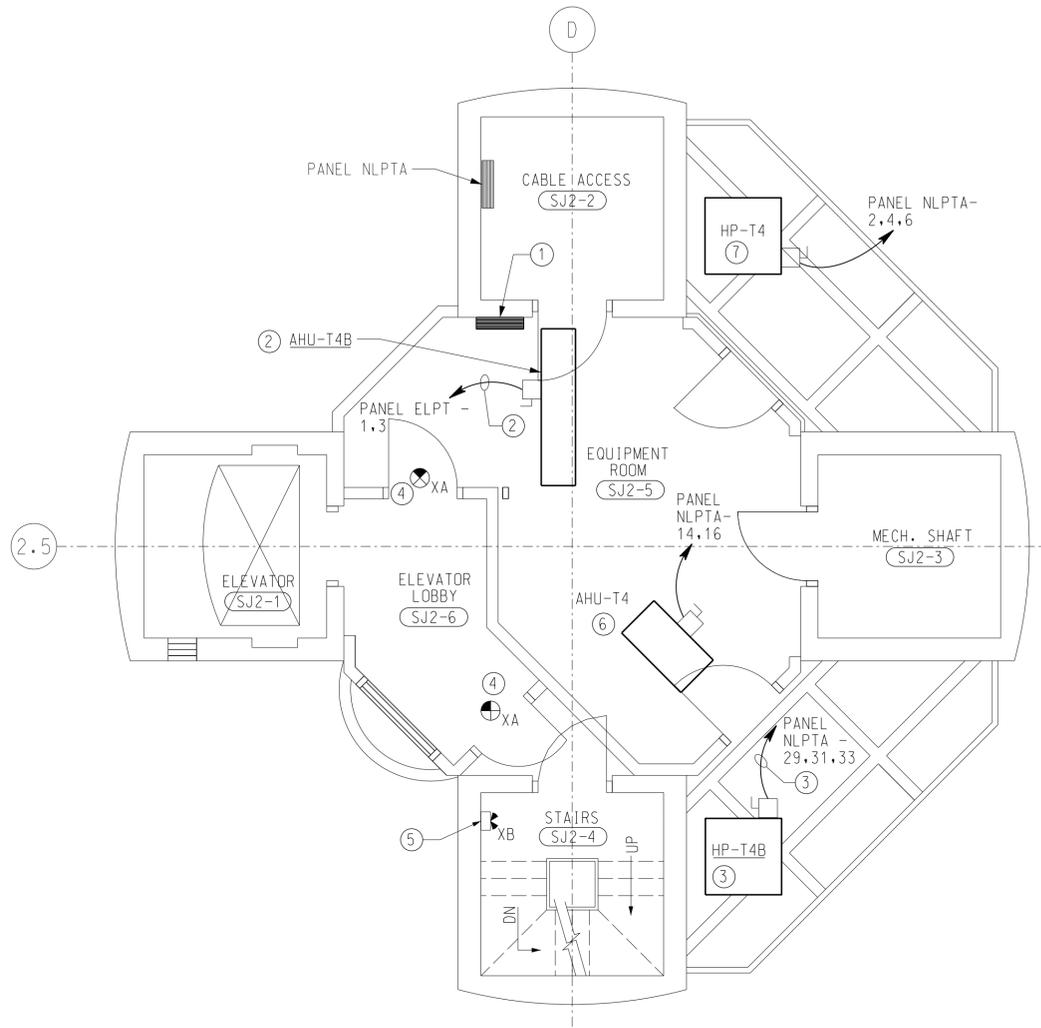
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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS PLUMBING GROUND LEVEL PLAN - NEW WORK FT LAUDERDALE (INTERNATIONAL) FL					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
DESIGNED	JJS	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER		
DRAWN	CRK	ISSUED BY	DATE	JCN	
CHECKED	JJS	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	
			DRAWING NO	FLL-D-ATCT-P400	

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.

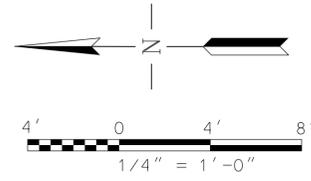
KEY NOTES

- 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.



1 SUBJUNCTION LEVEL TWO POWER PLAN - NEW WORK
E121 SCALE: 1/4" = 1'-0"

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE	OF
					
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					
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
SUBMITTED BY WILEY WILSON			APPROVED BY [Signature]		
SUBMITTER'S TITLE - CIVIL ENGINEER			APPROVER'S TITLE - MANAGER		
DESIGNED JMC			ISSUED BY ATLANTA TERMINAL ENGINEERING CENTER		
DRAWN CRK			DATE JAN 31, 2020 JCN 1508912		
CHECKED MAK			DRAWING NO FLL-D-ATCT-E121		
WW JOB NUMBER: 219075.00					

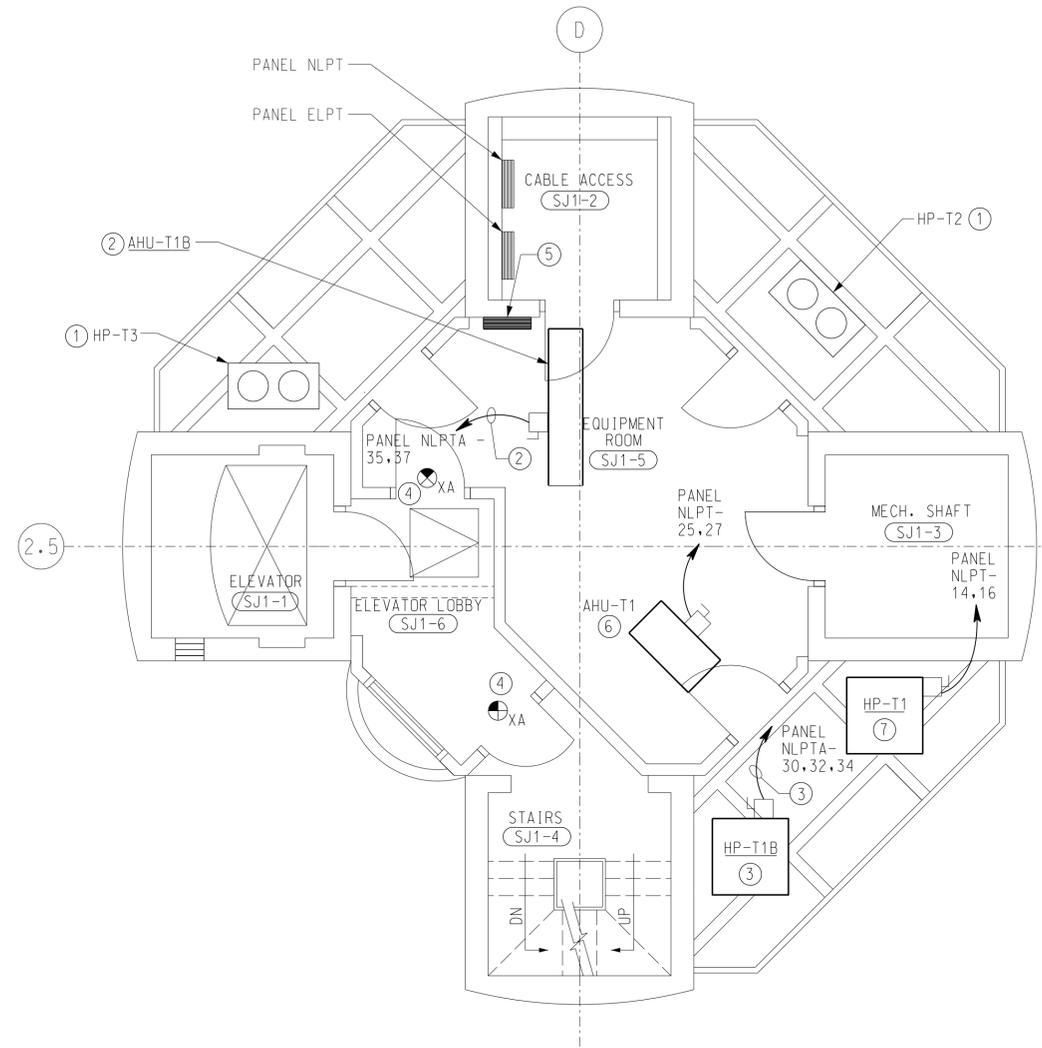


GENERAL NOTES

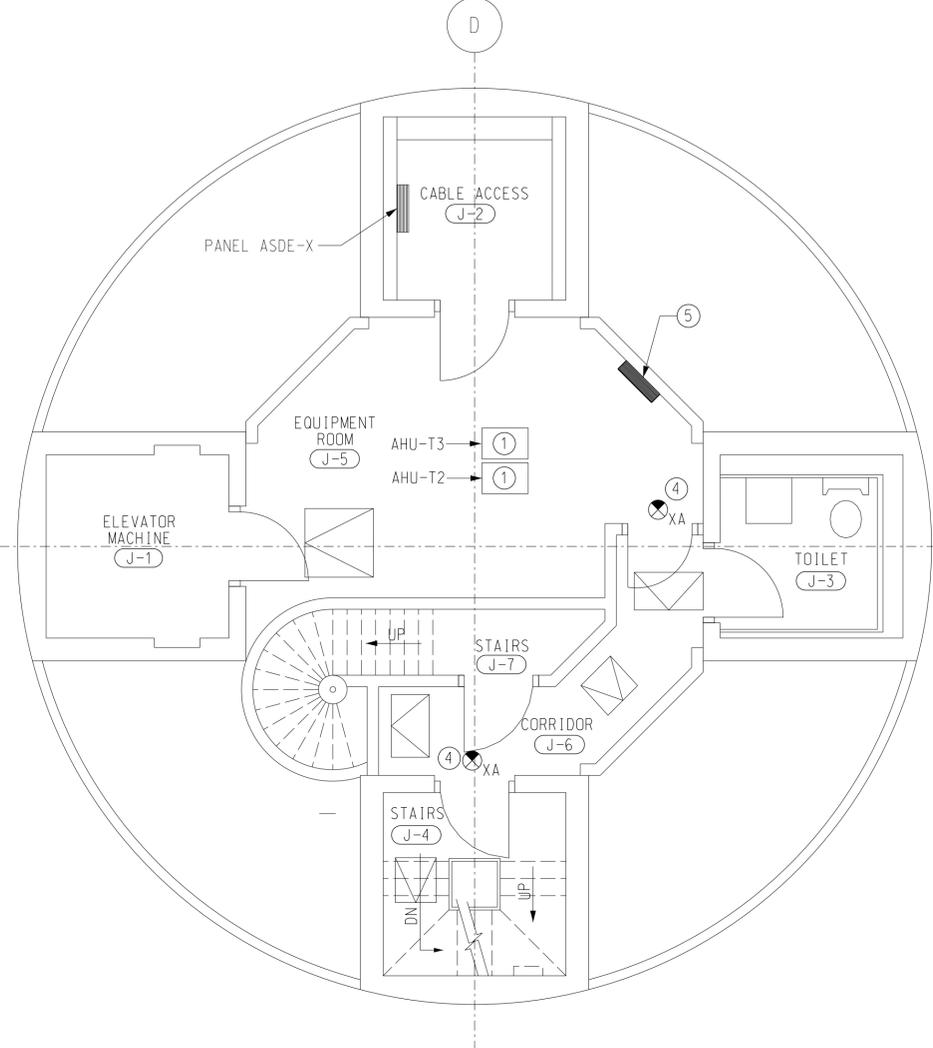
- A. NEW WORK IS SHOWN AS HEAVY LINE ON PLANS AND EXISTING WORK SHOWN IS LIGHT SOLID LINE.
- B. SEE DRAWING TRACO-E000 AND TRACO-E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND SPECIAL NOTES.
- C. ALL EXTERIOR BOXES, HANGERS, MOUNTING SUPPORTS AND HARDWARE SHALL BE STAINLESS STEEL TYPE MATERIAL.

KEY NOTES

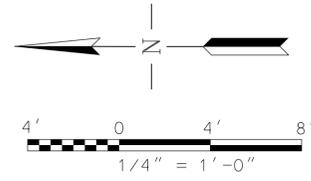
- ① EXISTING MECHANICAL EQUIPMENT TO REMAIN.
- ② NEW MECHANICAL UNIT AHU-T1B. CONTRACTOR SHALL PROVIDE 60A NEMA 1, 208V 2-POLE NON-FUSED DISCONNECT. COORDINATE INSTALLATION WITH OVERHEAD EQUIPMENT TO COMPLY WITH REQUIRED NEC CLEARANCES. PROVIDE NEW 60A, 2-POLE BREAKER IN PANEL NLPTA. PROVIDE NEW CIRCUIT 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.



① SUBJUNCTION LEVEL 1 PLAN - NEW WORK
E122 SCALE: 1/4" = 1'-0"



② JUNCTION LEVEL PLAN - NEW WORK
E122 SCALE: 1/4" = 1'-0"



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

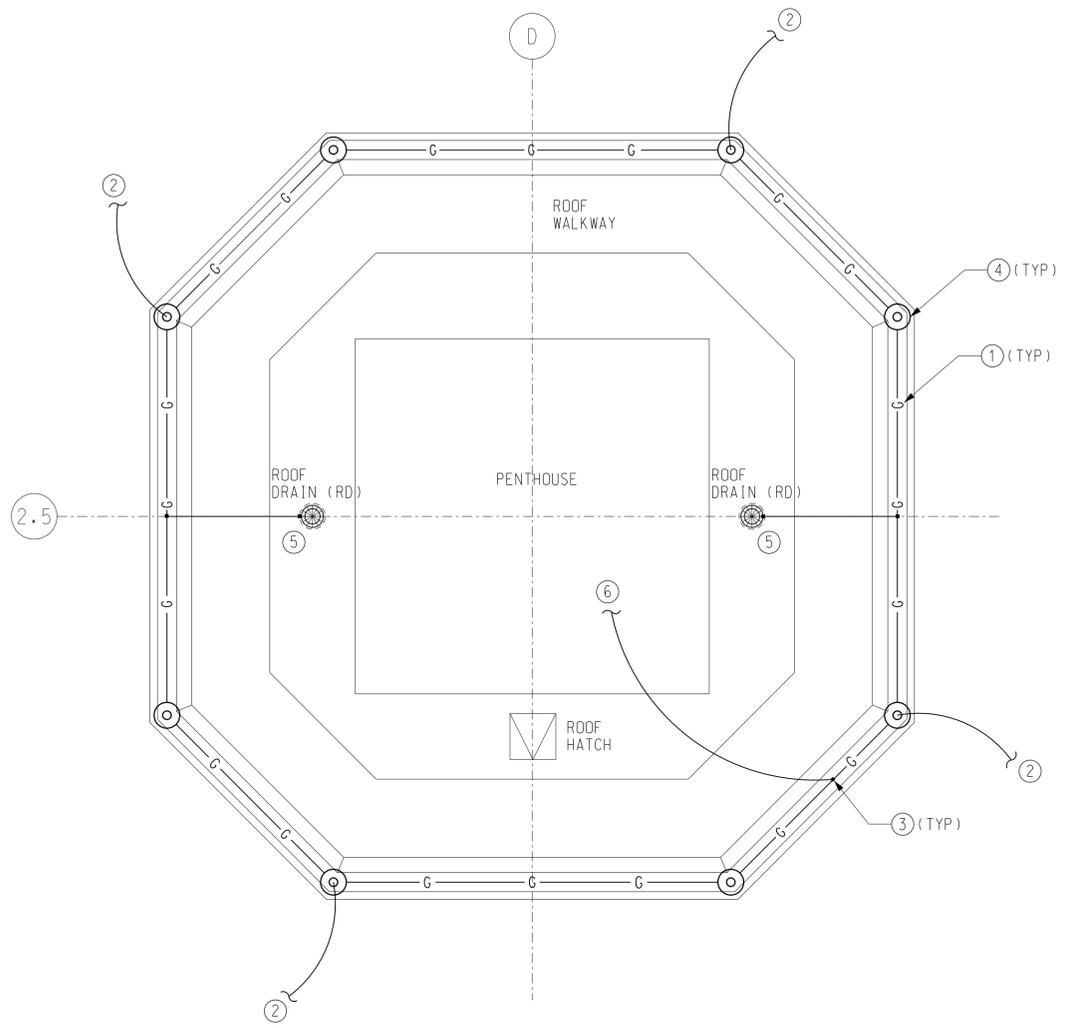
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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS ELECTRICAL SUBJUNCTION LEVEL 1 AND JUNCTION LEVEL - NEW WORK FT LAUDERDALE (INTERNATIONAL) FL					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
DESIGNED	SUBMITTER'S TITLE - CIVIL ENGINEER		APPROVER'S TITLE - MANAGER		
DRAWN	ISSUED BY	DATE	JCN	REV	
CHECKED	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	FLL-D-ATCT-E122	

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1 CAB ROOF PLAN - LIGHTNING PROTECTION
E160 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 ACCESSORIES TO FACILITATE ROOF REPLACEMENT. ROOF CONDUCTORS AND BONDS TO BE REPLACED.
- C. ALL TOWER (ATCT) LIGHTNING 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.

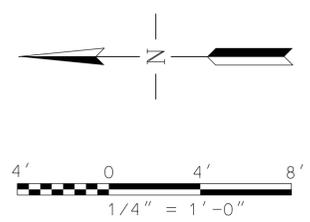
KEY NOTES

- 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 LIGHTNING 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. UTILIZE CONDUIT GROUND CLAMP PER DETAIL 5, SHEET TRACO-E600.

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 ELECTRICAL CAB LEVEL ROOF PLAN - LIGHTNING PROTECTION FT LAUDERDALE (INTERNATIONAL) FL					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
SUBMITTER'S TITLE - CIVIL ENGINEER		APPROVER'S TITLE - MANAGER			
DESIGNED	JMC	ISSUED BY	DATE	JCN	
DRAWN	CRK	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2020	1508912	
CHECKED	MAK		DRAWING NO		REV
					FLL-D-ATCT-E160

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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.

DESIGNATION: NLPTA										PANEL CHARACTERISTICS					
FED FROM: MDPN										MAIN: 225 A MCB 3 PHASE					
LOCATION: CABLE ACCESS SJ2-2										BUS AMPERAGE: 225 AMPS 4 WIRE + GROUND					
										VOLTAGE: 120/208 VOLTS 100% NEUTRAL					
										AIC: EXIST. MOUNTING: SURFACE					
Branch Circuit Load Description	kVA Loads			Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads			Branch Circuit Load Description			
	A	B	C						A	B	C				
HP-T1				30/3	1	A	2	30/3				HP-T4			
					3	B	4								
					5	C	6								
AH				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	① HP-T1B			
	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			
				<< PHASE SUB-TOTALS >>											
				Phase A			Phase B			Phase C					
PHASE TOTALS:				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		
Supplemental 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:

DESIGNATION: ASDE-X										PANEL CHARACTERISTICS					
FED FROM: CRITICAL MAIN										MAIN: 100 A MCB 3 PHASE					
LOCATION: CABLE ACCESS J-2										BUS AMPERAGE: 100 AMPS 4 WIRE + GROUND					
										VOLTAGE: 120/208 VOLTS 100% NEUTRAL					
										AIC: EXIST. MOUNTING: SURFACE					
Branch Circuit Load Description	kVA Loads			Trip / Poles	Ckt. No.	Phase	Ckt. No.	Trip / Poles	kVA Loads			Branch Circuit Load Description			
	A	B	C						A	B	C				
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 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		
Supplemental AC		
TOTALS (KVA)		

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

PROVIDE THE FOLLOWING:

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

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WW JOB NUMBER: 219075.00

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER
MAJOR IMPROVEMENTS
ELECTRICAL
PANEL SCHEDULES

FT LAUDERDALE (INTERNATIONAL) FL

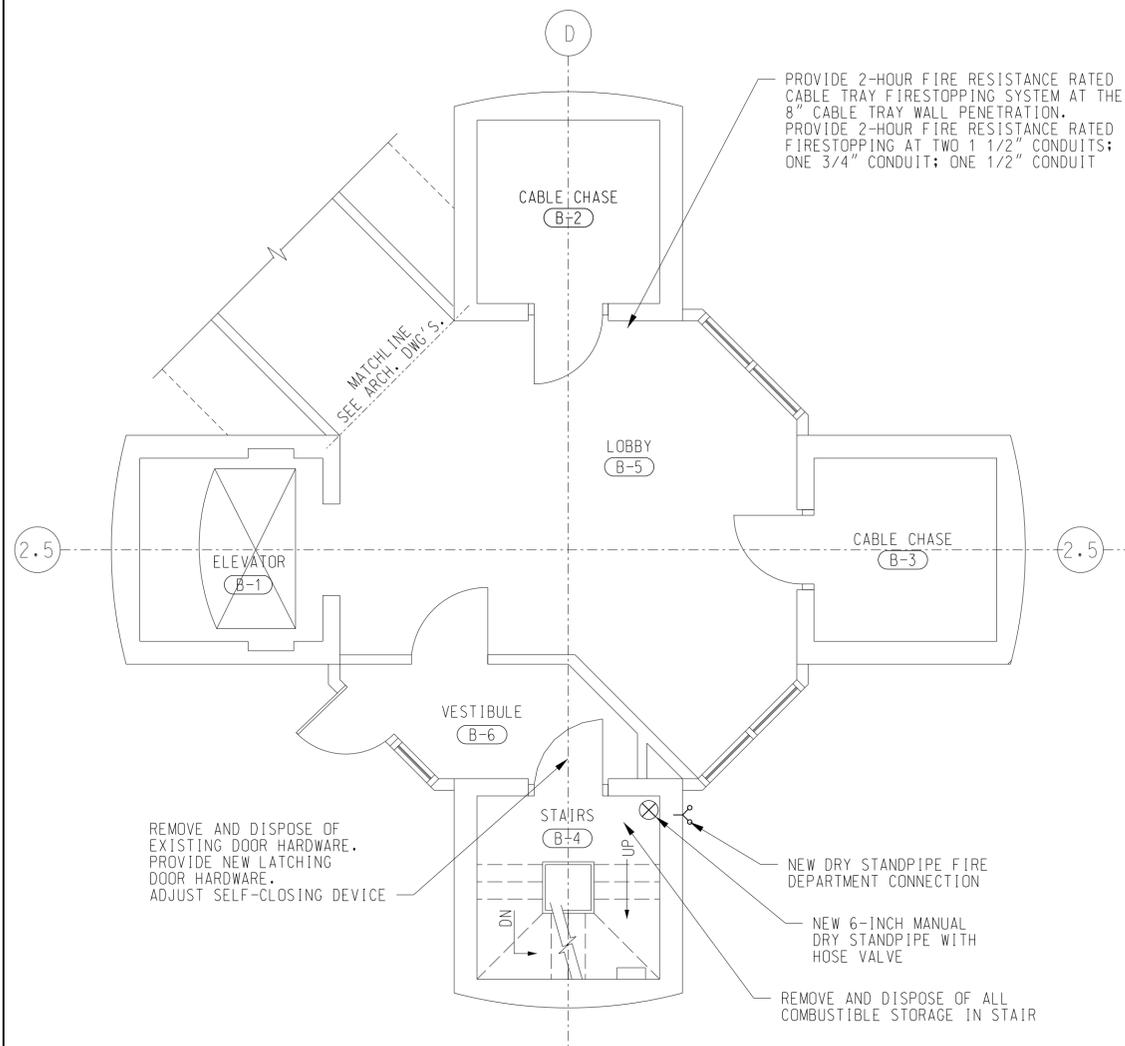
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

REVIEWED BY	SUBMITTED BY	APPROVED BY
DESIGNED JMC	ISSUED BY	DATE JAN 31, 2020 JCN 1508912
DRAWN JMC	ATLANTA TERMINAL ENGINEERING CENTER	DRAWING NO
CHECKED MRK		FLL-D-ATCT-E501

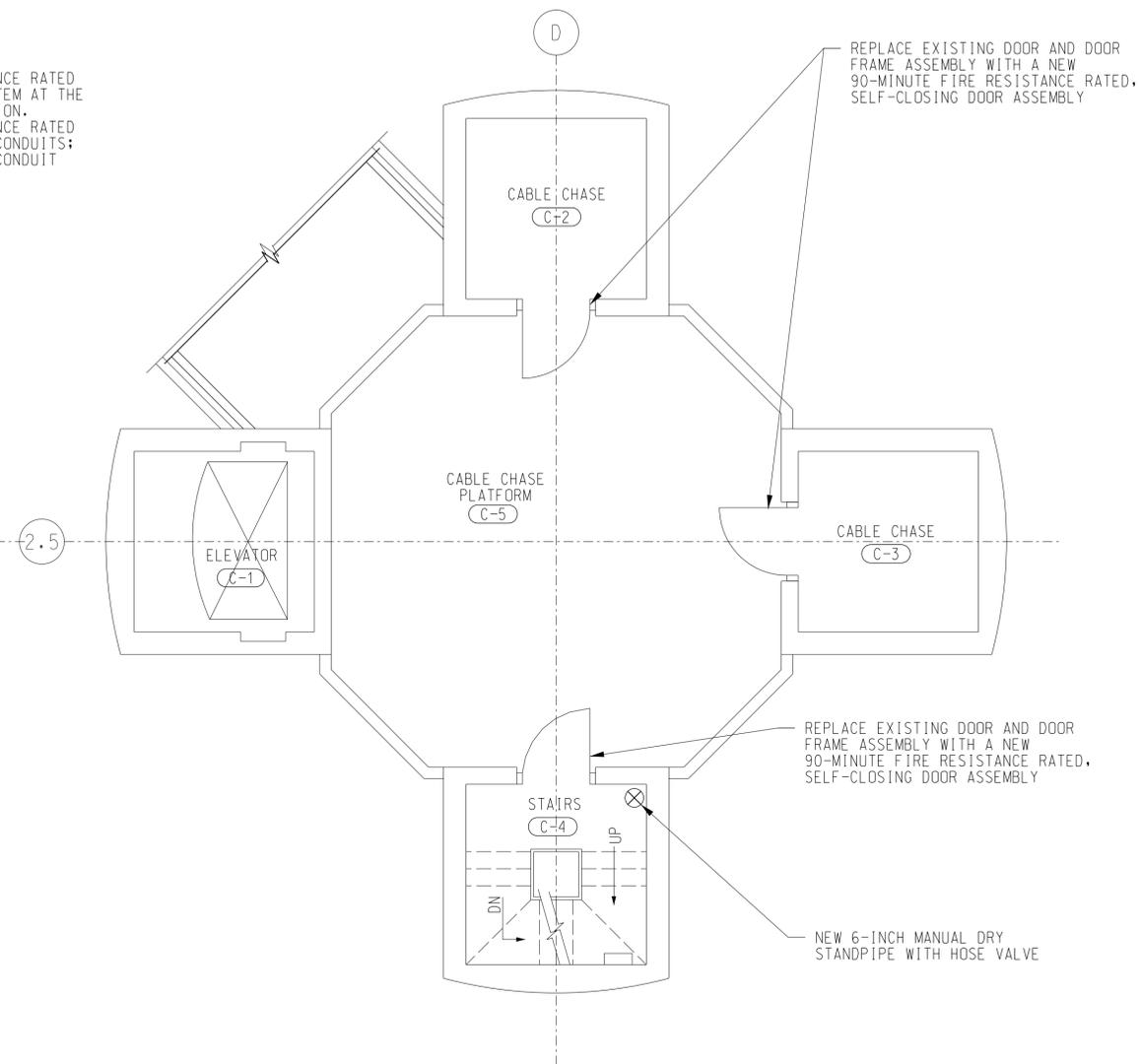
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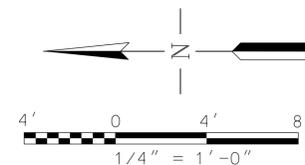
1. ALL INTERIOR WALLS, CEILINGS, FLOORS, DOORS AND OTHER FINISHED CONSTRUCTION THAT ARE DAMAGED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ORIGINAL CONDITION.
2. PRIOR TO ANY FIRESTOPPING MATERIALS OR ASSEMBLY BEING INSTALLED, THE CONTRACTOR SHALL HAVE SUBMITTED TO THE FAA RESIDENT ENGINEER MSDS 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.



1 GROUND LEVEL PLAN
F101 SCALE: 1/4" = 1'-0"



2 CABLE ACCESS LEVEL 1 - SECOND FLOOR
F101 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

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

REVIEWED BY	SUBMITTED BY	APPROVED BY
DESIGNED	JWJ	ISSUED BY
DRAWN	HJM	ATLANTA TERMINAL ENGINEERING CENTER
CHECKED	JWJ	

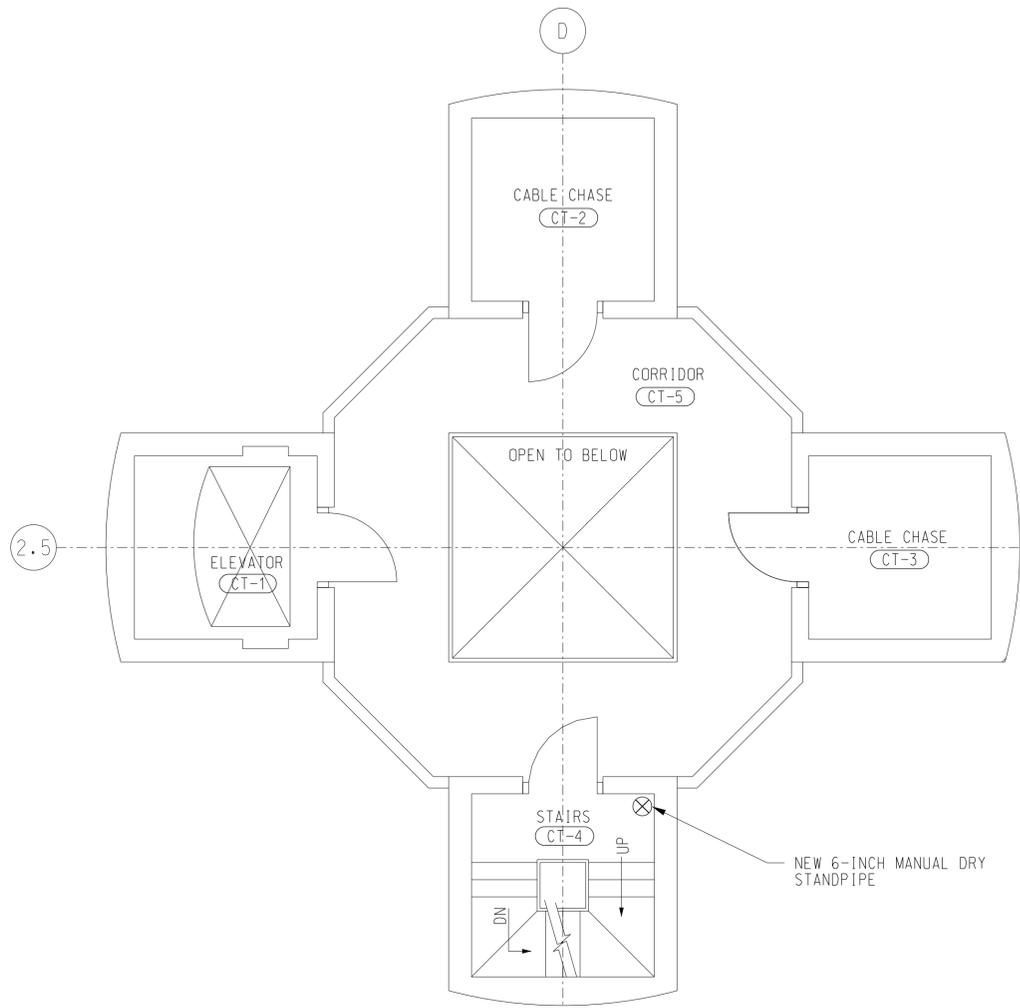
DATE JAN 31, 2019 JCN 1508912
DRAWING NO. FLL-D-ATCT-F101

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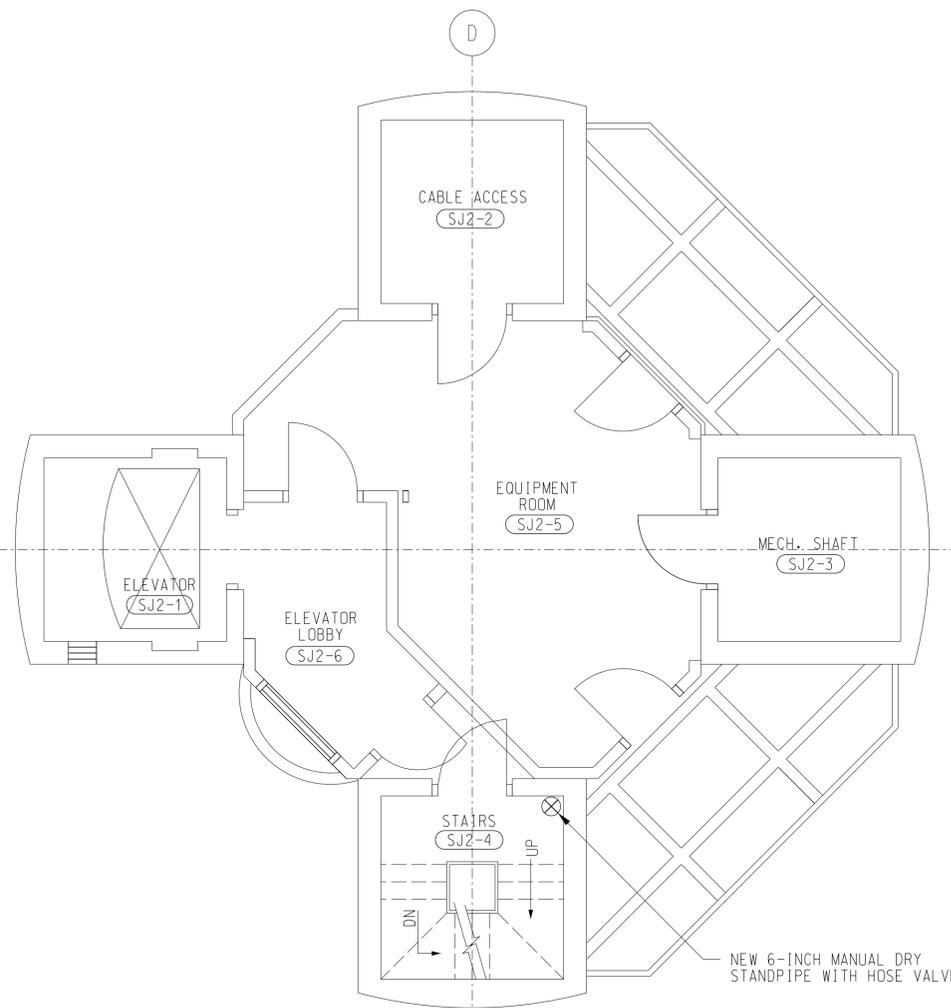
REGISTERED PROFESSIONAL ENGINEER
No. PE039062
1/31/20
JEREMY W. JOHN

NOTES

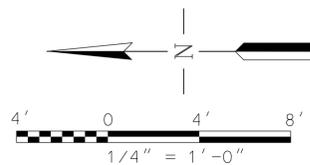
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4. PROVIDE A NEW MANUAL, DRY STANDPIPE SYSTEM IN THE TOWER STAIR AS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH NFPA 14.



1 CABLE ACCESS PLAN - TYPICAL
F102 SCALE: 1/4" = 1'-0"



2 SUBJUNCTION LEVEL 2 PLAN
F102 SCALE: 1/4" = 1'-0"



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



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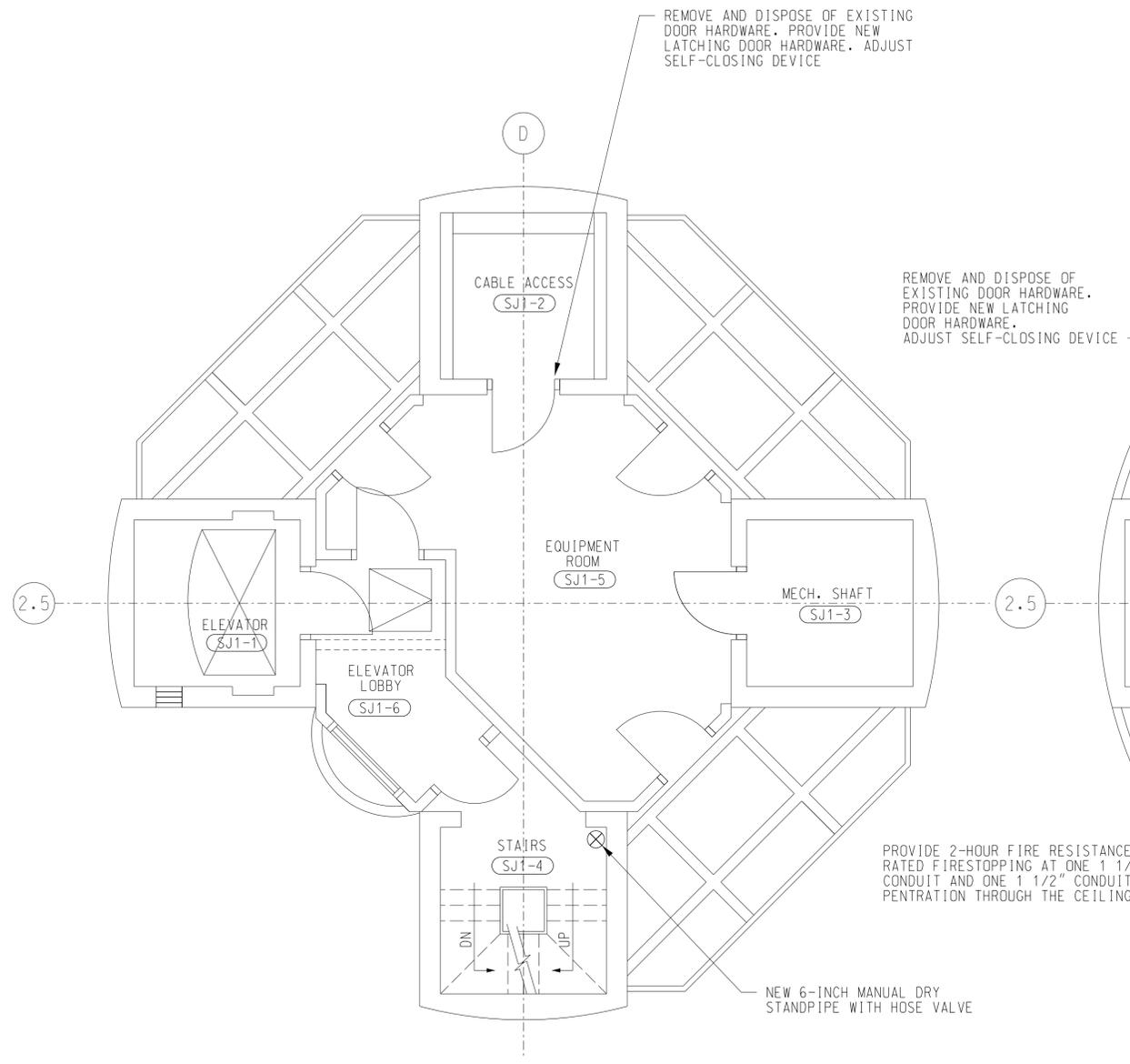
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REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT LAUDERDALE AIRPORT TRAFFIC CONTROL TOWER MAJOR IMPROVEMENTS TOWER - CABLE ACCESS (TYPICAL) AND SUBJUNCTION LEVEL 2 PLANS					
FT LAUDERDALE (INTERNATIONAL)			FL		
REVIEWED BY	SUBMITTED BY		APPROVED BY		
DESIGNED	JWJ	SUBMITTER'S TITLE - CIVIL ENGINEER	APPROVER'S TITLE - MANAGER		
DRAWN	HJM	ISSUED BY	DATE	JCN	
CHECKED	JWJ	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2019	1508912	
			DRAWING NO		
			FLL-D-ATCT-F102		

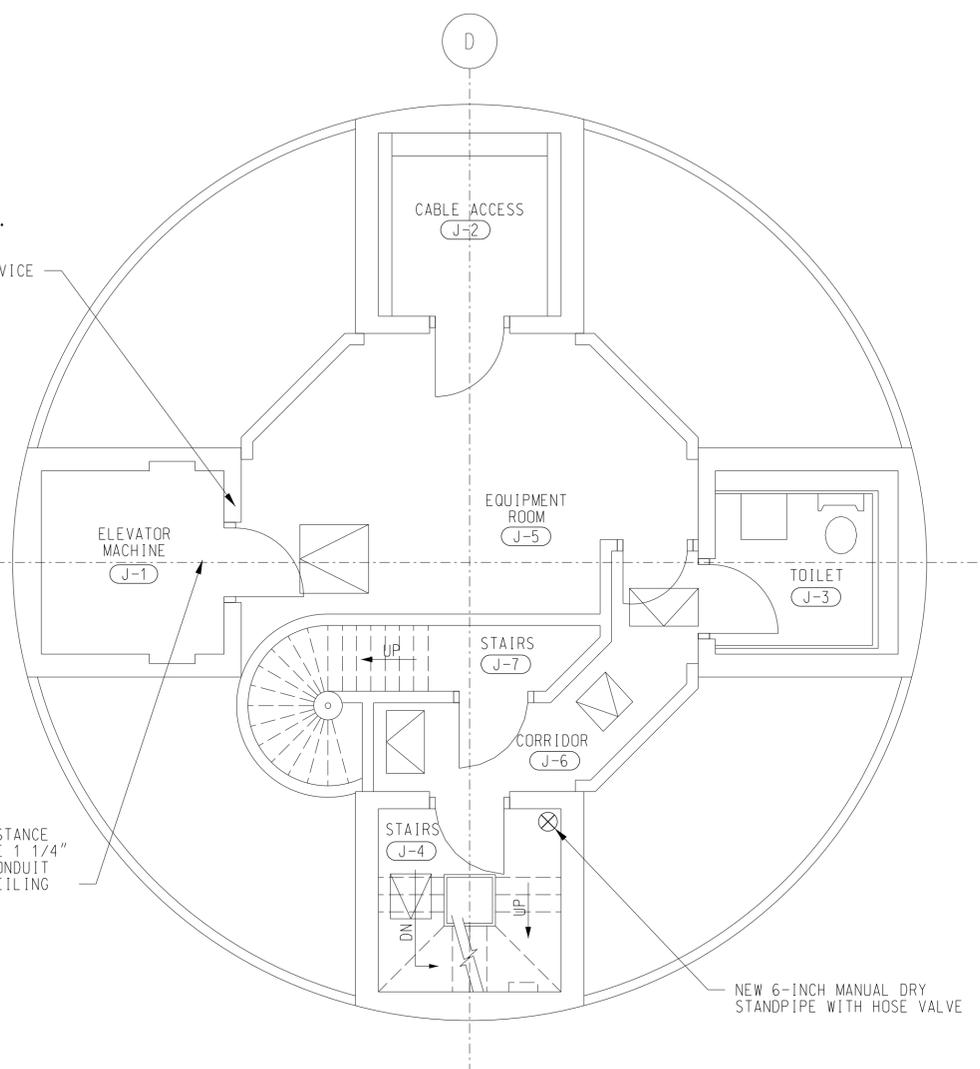
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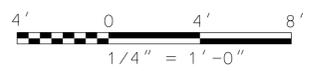
- NOTES**
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 4. PROVIDE A NEW MANUAL, DRY STANDPIPE SYSTEM IN THE TOWER STAIR AS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH NFPA 14.



1 SUBJUNCTION LEVEL 1
F103 SCALE: 1/4" = 1'-0"



2 JUNCTION LEVEL
F103 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
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		
DESIGNED	SUBMITTER'S TITLE - CIVIL ENGINEER		APPROVER'S TITLE - MANAGER		
DRAWN	ISSUED BY		DATE	JCN	REV
CHECKED	ATLANTA TERMINAL ENGINEERING CENTER		JAN 31, 2019	1508912	
WILEY WILSON		FLL-D-ATCT-F103			

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WW JOB NUMBER: 219075.00



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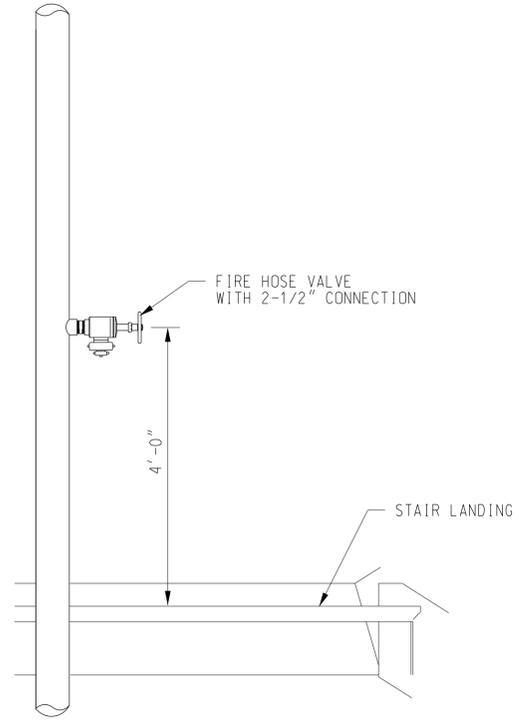
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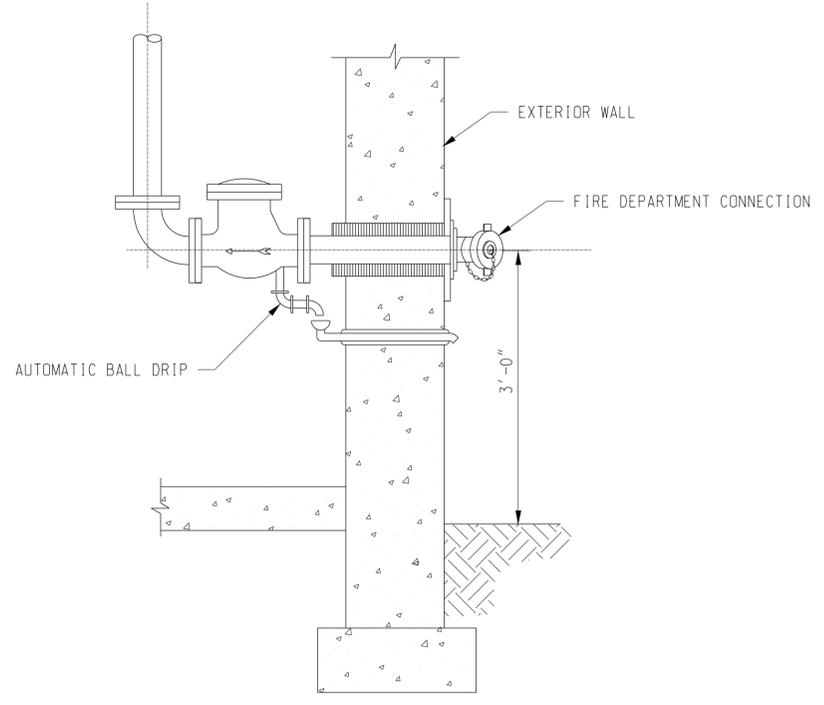
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1 HOSE VALVE ASSEMBLY
 F501 SCALE: NONE



2 FIRE DEPARTMENT CONNECTION
 F501 SCALE: NONE

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

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
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	ISSUED BY	DATE	JCN	
DRAWN	HJM	ATLANTA TERMINAL ENGINEERING CENTER	JAN 31, 2019	1508912	
CHECKED	JWJ		DRAWING NO		REV
			FLL-D-ATCT-F501		

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

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