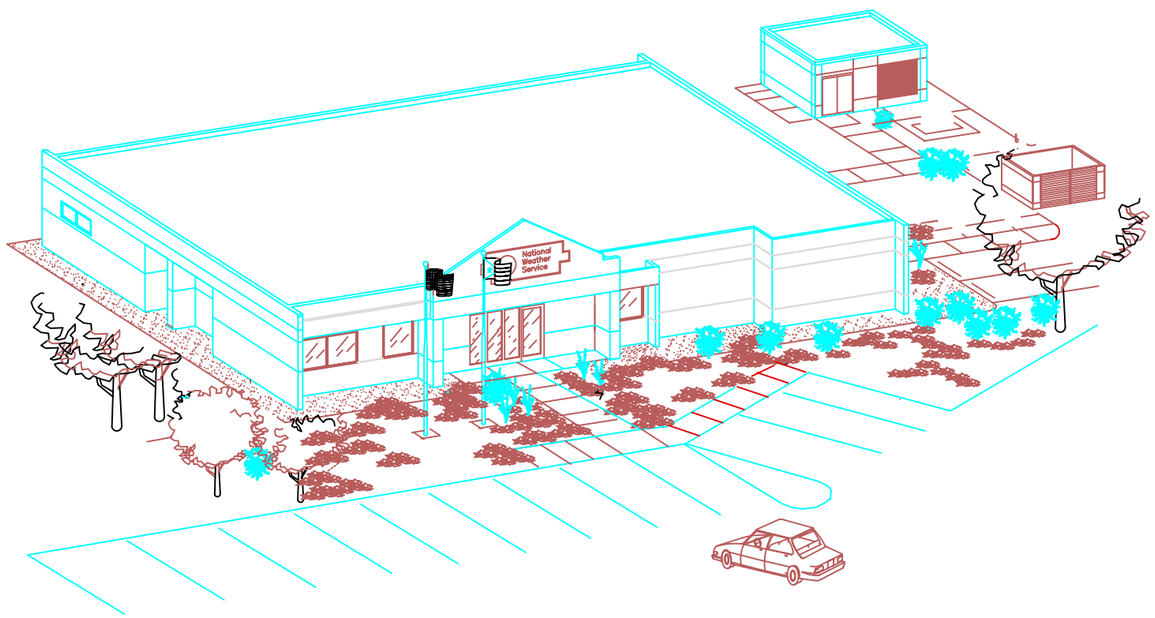

NOAA/
NATIONAL WEATHER SERVICE

FDI CONTRACT NO. 449404

SAN JUAN, PUERTO RICO

AS-BUILTS
JUNE 17, 1994
DRAWING NO. SKA01 REV. 1
PROJECT NO. G001

WEATHER FORECAST OFFICE

CARIBBEAN ARCHITECTS & ENGINEERS
P.O. BOX 363028
SAN JUAN, PUERTO RICO 00936-3028

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KANSAS CITY, MISSOURI U.S.A.

GOULD EVANS
ARCHITECTS, P.A.

09/01/94 16:02 SJL 1=20' GOSKA011

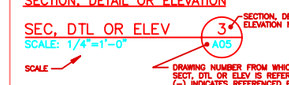
ABBREVIATIONS

@	AT
AB	ANCHOR BOLT
ABV	ABOVE
AC	ALTERNATING CURRENT
AC	ASPHALTIC CONCRETE
ACU	AIR COOLED CONDENSING UNIT
ACI	AMERICAN CONCRETE INSTITUTE
ACST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
A/C	AIR CONDITIONING
AD	ACCESS DOOR
ADJ	ADJUSTABLE
ADJT	ADJACENT
AF	AIR FRAME
AFF	ABOVE FINISH FLOOR
AFOS	AUTOMATION OF FIELD OPERATIONS AND SERVICES
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AIC	AMPERES INTERRUPT CURRENT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
AMP, A	AMPERE
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
ARCH	ARCHITECT(URE)(URAL)
AS	AMP SWITCH
ASA	AMERICAN STANDARDS ASSOCIATION, INC.
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
AWIPS	ADVANCE WEATHER INTERACTIVE PROCESSING SYSTEM
AWS	AMERICAN WELDING SOCIETY
B	BARE
BATT	BATTERY
BC	BEGINNING OF CURVE
BD	BOARD
BDD	BACKDRAFT DAMPER
BEJ	BRICK EXPANSION JOINT
BITUM	BITUMINOUS
BKR	BREAKER
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK
BO	BOTTOM OF
BOCA	BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL INC.
BP	BASE PLATE
BRG	BEARING
BTM	BOTTOM
BTU	BRITISH THERMAL UNIT
BTWN	BETWEEN
BU/BUR	BUILT UP/BUILT UP ROOF
C	CONDENSER/CONDUIT/CONDUCTOR
CAB	CABINET
CAP	CAPACITY
CB	CATCH BASIN
CER	CERAMIC
CFM	CUBIC FEET PER MINUTE
CHAM	CHAMFER
CI	CAST IRON
CIP	CAST IRON PIPE
CJ	CONTROL JOINT
CKT	CIRCUIT
∠	CENTER ANGLE
℄	CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLOS	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEAN OUT/COMPANY
COE	CORP OF ENGINEERS
COL	COLUMN
COMM	COMMERCIAL/COMMUNICATIONS
COMP	COMPOSITION
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS/CONTROL
CONTR	CONTRACTOR
CORR	CORRIDOR
C_p	EXTERNAL PRESSURE COEFFICIENT
C_{pi}	INTERNAL PRESSURE COEFFICIENT
CPT	CARPET
CPT T	CARPET TILE
CR	CONTROL RELAY
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
CT	CERAMIC TILE
CTR	CENTER, CENTRAL
CU	COPPER
CU FT	CUBIC FEET
CU YD	CUBIC YARD
CUH	CABINET UNIT HEATER
CW	COLD WATER
C TO C	CENTER TO CENTER
CJ	CHANNEL
D	DRAIN
D	PENNY (AS 10D NAIL)
DB	DECIBEL/DRY BULB
DBL	DOUBLE
DC	DIRECT CURRENT
DDG	DIESEL DRIVEN GENERATOR
DEG	DEGREE
DEPT	DEPARTMENT
DES	DESIGN
DET	DETECTION
DIA	DIAMETER
DIAG	DIAGONAL/DIAGRAM
DIM	DIMENSION
DISC	DISCONNECT
DISP	DISPENSER
DIV	DIVISION
DK	DECK
DL	DEAD LOAD
DMIC	DEPUTY METEOROLOGIST IN CHARGE
DN	DOWN
DN	DOWNSPOUT NOZZLE
DO	DITTO
DP	DISTRIBUTION PANEL
DR	DOOR
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
°F	DEGREE FAHRENHEIT
E	EAST/ELECTRIC (CIVIL)
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EB	EXPANSION BOLT
EC	END OF CURVE
EDH	ELECTRIC DUCT HEATER
EF	EACH FACE/EXHAUST FAN
EJ	END JACK/EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEC CHAR	ELECTRIC CHARACTERISTIC
ELEV	ELEVATOR
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENG	ENGINE
ENGR	ENGINEER
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
EXTG	EXISTING
°F	FAHRENHEIT/FEEDER
FAO	FINISH ALL OVER
FB	FACE BRICK
FC	FOOT CANDLE
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER/FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FG	FINISH GRADE
FH	FIRE HYDRANT
FIN	FINISH
FL	FLOOR
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOORING
FLUOR	FLUORESCENT
FM	FORCE MAIN
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FR	FIRE RESISTIVE/FRAME
FRTW	FIRE RETARDANT TREATED WOOD
FS	FINISH SURFACE
FT OR '	FEET
FTG	FOOTING
F TO F	FACE TO FACE
G	GAS
G	GUST RESPONSE FACTOR
GA	GAUGE/GAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GEN/G	GENERAL/GENERATOR
GEP	GENERATOR ENCLOSURE PANEL
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GFE	GOVERNMENT FURNISHED EQUIP
GFM	GOVERNMENT FURNISHED MATERIAL
GI	GALVANIZED IRON
GL	GLASS
GND/G	GROUND
GOVT	GOVERNMENT
GP	GRINDER PUMP
GVL	GRAVEL
GYP	GYPSUM
H	HIGH
HB	HOSE BIB
HC	HOLLOW CORE
HD	HEAD/HEAVY DUTY
HDBD	HARDBOARD
HDW	HARDWARE
HDWD	HARDWOOD
HG	HOT GAS LINE
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH PRESSURE
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HS	HIGH STRENGTH
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HU	HUMIDIFIER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HW	HOT WATER
HZ	HERTZ
H PT	HIGH POINT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IES	ILLUMINATING ENGINEERING SOCIETY
IF	INSIDE FACE
IN OR "	INCH
INCL	INCLUDE(D)(ING)
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
JAN	JANITOR
JB/J	JUNCTION BOX
JST	JOIST
JT	JOINT
JUNCT	JUNCTION
K	KELVIN/KIP
KCMIL	THOUSAND CIRCULAR MILS
KO	KNOCK OUT
KS	KITCHEN SINK
KVA	KILOVOLT AMPERE
KW	KILOWATT
L	STEEL ANGLE/ARCH LENGTH
LA	SURGE AND LIGHTNING ARRESTER
LAM	LAMINATE(D)
LAN	LOCAL AREA NETWORK
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBL	LABEL
LBS OR #	POUNDS
LC	LIGHTING CONTACTOR
LD	LOAD
LF	LINEAR FOOT (FEET)
LG	LONG/LENGTH
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LKR	LOCKER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LIGHTING PANEL
LT	LIGHT
LTG	LIGHTING
LTL	LINTEL
LW	LIGHTWEIGHT
L PT	LOW POINT
M	METER(S)/MOTOR
mA	MILLIAMPERE
MACH	MACHINE
MAN	MANUAL
MAS	MASONRY
MATL	MATERIAL(S)
MAX	MAXIMUM
MB	MACHINE BOLT
MBH	1000 X BTU/HR
MBR	MEMBER
MCA	MAXIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MD	MANUAL DAMPER
MECH	MECHANICAL
MEMB	MEMBRANE
MFG	MANUFACTURER
MFR	MANUFACTURE
MG	MOTOR GENERATOR
MH	MANHOLE
MIC	METEOROLOGIST IN CHARGE
MIN	MINIMUM
MISC	MISCELLANEOUS
MK	MARK
MLDG	MOLDING
MLO	MAIN LUGS ONLY
MLOS	MICROWAVE LINE-OF-SIGHT
MM	MILLIMETER
MO	MASONRY OPENING
MOD	MOTOR OPERATED DAMPER
MOCP	MAXIMUM OVERCURRENT PROTECTION
MS	MOP SINK
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
N	NEUTRAL/NORTH/NORMAL
N/A	NOT APPLICABLE
NAT	NATURAL
NC	NO CEILING
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEXRAD	NEXT GENERATION RADAR
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFWH	NON-FREEZE WALL HYDRANT
NIC	NOT IN CONTRACT
NL	NAILABLE
NO	NORMALLY OPEN
NO. OR #	NUMBER
NOM	NOMINAL
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
NWR	NOAA WEATHER RADIO
NWS	NATIONAL WEATHER SERVICE
O TO O	OUT TO OUT
OA	OUTSIDE AIR/OVERALL
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFC	OFFICE
OH	OPPOSITE HAND/OVERHEAD
OHP	OVERHEAD POWER
OJ	OPEN-WEB JOIST
OPER	OPERATOR/OPERATIONS
OPNG	OPENING
OPP	OPPOSITE
OR	OUTRIGGER
OZ	OUNCE
P	POLE
PAC	PACKAGED AIR CONDITIONER
PART BD	PARTICLE BOARD
PASS	PASSAGE
PAV	PAVE(ING)(MENT)(ER)
PB	PULL BOX/PUSH BUTTON
PBX	PRIVATE BRANCH EXCHANGE
PC	PORTLAND CEMENT
PC	PULL CHAIN/PHOTOCELL
PD	PRESSURE DROP
PERP	PERPENDICULAR
PH OR ø	PHASE
PI	POINT OF INTERSECTION
PK	PARK
PKG	PARKING
PL	PLATE/PROPERTY LINE
PLAS	PLASTER
PLBG	PLUMBING
PLCS	PLACES
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
P LAM	PLASTIC LAMINATE
PNEU	PNEUMATIC
PNL	PANEL
POB	POINT OF BEGINNING
POL	POLISHED
PORC	PORCELAIN
PP	PERFORATED PANEL
PP	POWER PANEL
PR	PAIR
PRD	POURED
PRESS	PRESSURE
PROJ	PROJECTION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT/PLATE TRUSS
PTC	PHOTO TEMPERATURE CONTROL
PTD	PAINTED
PTRV	PRESSURE AND TEMPERATURE RELIEF VALVE
PUP	PRINCIPAL USER PROCESSOR
PURP	PURPOSE
PVC	POLYVINYL CHLORIDE
PVT	PRIVATE
PWR	POWER
%	PERCENT
QT	QUARRY TILE
R	RADIUS/RISER
RA	RETURN AIR
RCB	REMOTE CONTROL BOX
RCP	REINFORCED CONCRETE PIPE
RCPT	RECEPTACLE
RCPTN	RECEPTION
RD	ROAD/ROOF DRAIN
RDA	RADAR DATA ACQUISITION
RE BAR	REINFORCING BAR
REF OR RE	REFER(ENCE)
REFL	REFLECT(ED)(IVE)(OR)
REFR	REFRIGERATOR
REINF	REINFORCE(MENT)(ED)
REQD	REQUIRED
RES	RESILIENT
RET	RETAIN(ING)
REV	REVISIONS
RFG	ROOFING
RG	ROUGH GRADE
RGS	RIGID GALVANIZED STEEL
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RJ	RAKE JOINT
RL	REFRIGERANT LIQUID LINE
RLA	RUNNING LOAD AMP
RM	ROOM
RND OR ø	ROUND
RO	ROUGH OPENING
RPG	RADAR PRODUCTS GENERATOR
RPGOP	RADAR PRODUCTS GENERATOR OPERATOR
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION LINE
RTU	ROOF TOP UNIT
RVS	REVERSE (SIDE)
S	SOUTH
SA	SUPPLY AIR
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCT	STRUCTURAL CLAY TILE
SD	SMOKE DAMPER
SD	SMOKE DETECTOR
SD	SOAP DISPENSER
SD	STORM DRAIN
SEC	SECTION
SEP	SEWAGE EJECTOR PUMP
SERV	SERVICE
SEW	SEWER
SF	SPECIAL FRAME
SHT	SHEET
SHLD	SHIELD(ED)
SIM	SIMILAR
SM	SURFACE MOUNTED
SMACNA	SHEET METAL AND AIR CONDITION CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
SPCS	SPACES
SPEC	SPECIFICATIONS
SPK	SPEAKER
SQ	SQUARE
SS	SANITARY SEWER
SS	SERVICE SINK
SS	STAINLESS STEEL
SSPC	STEEL STRUCTURE PAINTING COUNCIL
SST	SATURATED SUCTION TEMPERATURE
ST	STREET/SURGE TANK
STA	STATION
STC	SOUND TRANSMISSION CLASS
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STOR	STORAGE
ST P	STAND PIPE
STR	STRUCTURAL
STS	STORM SEWER
SUBFL	SUBFLOOR
SUSP	SUSPENDED
SW	SWITCH
SYM	SYMMETRICAL
SYSTEM	SYSTEM
T	TELEPHONE/TREAD/TANGENT LENGTH
TB	TERMINAL BLOCK
T & G	TONGUE AND GROOVE
TCB	TOP OF CATCH BASIN
TECH	TECHNICAL, TECHNICIAN
TEL	TELEPHONE
TEMP	TEMPERATURE
TERM	TERMINAL
TF	TRANSFER FAN
THK	THICK
TKBD	TACK BOARD
TO	TOP OF
TOB	TOP OF BOLT
TOC	TOP OF CONCRETE/CURB
TOM	TOP OF MASONRY
TOP	TOP OF PAVEMENT
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANSF	TRANSFER
TRANSL	TRANSLUCENT
TRANSP	TRANSPARENT
TS	TUBULAR STEEL/TERMINAL STRIP
TV	TELEVISION
TWR	TOWER
TXV	THERMOSTATIC CONTROL VALVE
TYP	TYPICAL
U	UTILITY
UBC	UNIFORM BUILDING CODE
UCP	UNIT CONTROL POSITION
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNO/UON	UNLESS NOTED OTHERWISE/ UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
V	VENT/VOLT(AGE)
VA	VOLT AMPERE
VAC	VOLTS ALTERNATING CURRENT
VAR	VARIABLE
VB	VAPOR BARRIER
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE
VD	VOLUME DAMPER
VERT	VERTICAL
VEST	VESTIBULE
VIN	VINYL
VOL	VOLUME
VT	VINYL TILE
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	WASTE/WATER/WHITE
WB	WET BULB
W	WATT/WIRE
W	WIDE FLANGE SHAPE STEEL BEAM
W	WEST/WIDE/WIDTH
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WBRT	WEATHER BUREAU RADIO THEODOLITE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WD	WOOD
WDW	WINDOW
WFO	WEATHER FORECAST OFFICE
WH	WEEP HOLE
WKSTA	WORKSTATION
WP	WEATHERPROOF/WORK POINT/WELL PUMP
WS	WATER STOP
WT	WEIGHT
WTR	WATER
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER
YD	YARD
YR	YEAR

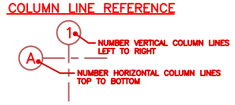
REFERENCE SYMBOLS

SECTION, DETAIL OR ELEVATION

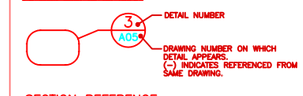
SEC, DTL OR ELEV
SCALE: 1/4"=1'-0"



COLUMN LINE REFERENCE



DETAIL REFERENCE



SECTION REFERENCE

ARCHITECTURAL FULL WALL SECTION REFERENCE

ARCHITECTURAL ELEVATION REFERENCE

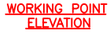
NORTH ARROW

DOOR NUMBER

ACCESSORY SYMBOL

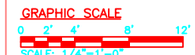
PARTITION SYMBOL

WORKING POINT ELEVATION



CONTROL JOINT/RAKE JOINT

GRAPHIC SCALE



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

1 A NUMBER WITHIN A BOX INDICATES A SPECIFIC NOTE REFERENCED ON THE SAME DRAWING.

PARTITION TYPES

MARK	DESCRIPTION	SKETCH
A	ONE LAYER 5/8" GYPSUM BOARD APPLIED PARALLEL TO 7/8" STL FURRING CHANNELS AT 16" OC. ATTACHED TO CONCRETE WALL WITH 1" DRYWALL SCREWS 12" OC AT VERTICAL EDGES AND 16" OC AT INTERMEDIATE CHANNELS. STC RANGE: N/A FIRE RATING: N/A	
C	BASE LAYER 5/8" GYPSUM WALLBOARD APPLIED PERPENDICULAR AND OR PARALLEL TO EACH SIDE OF 2 1/2" STL STUDS AT 16" OC WITH 1" DRYWALL SCREWS AT 24" OC. FACE LAYER 5/8" GYPSUM WALLBOARD APPLIED PERPENDICULAR AND OR PARALLEL TO EACH SIDE OF STUDS WITH 1 5/8" DRYWALL SCREWS 12" OC. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS 16" OC EACH SIDE. STC RANGE: N/A FIRE RATING: N/A	
C A	SAME AS C WITH 2 1/2" FIBER BATT INSULATION IN CAVITY. STC RANGE: 50–54 FIRE RATING: N/A	
D	ONE LAYER 5/8" GYPSUM WALLBOARD APPLIED PARALLEL TO 3 5/8" STL STUDS AT 16" OC. STC RANGE: N/A FIRE RATING: N/A	
D	ONE LAYER 5/8" GYPSUM WALLBOARD APPLIED PERPENDICULAR OR PARALLEL TO EACH SIDE OF 3 5/8" STL STUDS AT 16" OC WITH 1" DRYWALL SCREWS AT 8" OC TO VERTICAL EDGES AND TOP AND BOTTOM RUNNERS, AND 12" OC TO INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS 16" OC EACH SIDE. STC RANGE: N/A FIRE RATING: N/A	
D A	SAME AS D WITH 3 1/2" FIBER BATT INSULATION. STC RANGE: N/A FIRE RATING: N/A	
F	SAME AS D W/ 6" STL STUDS STC RANGE: N/A FIRE RATING: N/A	
F A	SAME AS C A WITH 6" FIBER BATT INSULATION AND 6" STL STUDS. STC RANGE: 45–49 FIRE RATING: N/A	
G A	CHASE WALL: ONE LAYER 5/8" GYPSUM WALLBOARD ON TWO ROWS OF 2 1/2" STL STUDS AT 16" OC WITH 2 LAYERS OF 3 1/2" FIBER BATT INSULATION. WIDTH AS INDICATED ON THE PLANS. (ATTACHMENT SAME AS DESCRIBED FOR D). STC RANGE: N/A FIRE RATING: N/A	
H	8" REINFORCED CONCRETE WALL WITH 1/2" PORTLAND CEMENT PLASTER BOTH SIDES	
J	8" CONCRETE BLOCK WALL WITH 1/2" PORTLAND CEMENT PLASTER, BOTH SIDES.	

LIST OF DRAWINGS

REV	DWG NO	DRAWING TITLE
1	SKA01	COVER SHEET
1	I01	INDEX/GENERAL INFORMATION
1	C01	DEMOLITION PLAN
1	C02	SITE AND UTILITIES PLAN
1	C03	GRADING, STORM AND SANITARY SEWER PLAN
1	C04	SECTIONS AND DETAILS SHEET 1 OF 3
1	C05	SECTIONS AND DETAILS SHEET 2 OF 3
1	C06	SECTIONS AND DETAILS SHEET 3 OF 3
1	A01	LANDSCAPE PLAN
1	A02	FLOOR PLAN
1	A03	ELEVATIONS
1	A04	WALL SECTIONS/DETAILS
1	A05	DETAILS
1	A06	REFLECTED CEILING PLAN
1	A07	ROOF PLAN/DETAILS
1	A08	DETAILS AND INTERIOR ELEVATIONS SHEET 1 OF 2
1	A09	DETAILS AND INTERIOR ELEVATIONS SHEET 2 OF 2
1	A10	SCHEDULES
1	A11	DDG/STORAGE BUILDING PLAN, ELEVS AND DETAILS
1	S01	FOUNDATION PLAN
1	S02	ROOF FRAMING PLAN
1	S03	FOUNDATION SECTIONS AND DETAILS
–	S04	NOT USED
1	S05	MISCELLANEOUS CONCRETE DETAILS
–	S06	NOT USED
1	S07	WALL ELEVATIONS/ SECTIONS & DETAILS
1	S08	ROOF SECTIONS AND DETAILS
–	S09	NOT USED
–	S10	NOT USED
1	S11	DDG/STORAGE BUILDING PLANS, SECTIONS AND DETAILS
–	S12	NOT USED
1	S13	TRASH ENCLOSURE PLANS, SECTIONS & DETAILS
1	M01	PLUMBING PLAN
1	M02	PLUMBING DETAILS AND SCHEDULES
1	M03	HVAC PLAN
1	M04	HVAC SECTIONS AND DETAILS
1	M05	HVAC TEMPERATURE CONTROLS
1	M06	HVAC SYMBOLS, SCHEDULES AND LEGEND
1	M07	DIESEL DRIVEN GENERATOR AND FUEL TANK
1	E01	LEGEND AND FIXTURE SCHEDULE
1	E02	ONE–LINE DIAGRAM
1	E03	PANELBOARDS, SCHEMATICS AND CONTROL DIAGRAMS
1	E04	ELECTRICAL SITE PLAN
1	E05	ELECTRICAL POWER PLAN
1	E06	COMMUNICATIONS AND CONTROLS PLAN
1	E07	ELECTRICAL LIGHTING PLAN
1	E08	ELECTRICAL SECTIONS AND DETAILS
1	E09	ELECTRICAL DDG/STORAGE BUILDING
1	E10	13.2 KV SUBSTATION PLAN, ELEV AND LEGEND

NOTICE
TO BIDDERS ONLY
DRAWINGS MAY NOT NECESSARILY BE FULL SIZE. THE BIDDERS SHALL VERIFY THE SCALE OF EACH DRAWING WITH THE BAR SCALES AND DIMENSIONS PROVIDED.

MATERIAL SYMBOLS

PLAN/ SECTION	MATERIAL	ELEVATION
	FLOOR TILE	
	CARPET	
	GLASS	
I	IRON OR STEEL	
	EARTH	
	SAND, GRAVEL, OR CRUSHED ROCK	
	STONE	
	ASPHALT PAVING	
	CONCRETE	
	BRICK VEENEER	
	MASONRY BLOCK	
	PLASTER, STUCCO, OR POURED GYPSUM	
	GYPSUM BOARD	
	WOOD	
	INSULATION	
	ACOUSTICAL TILE	

CODE INFORMATION

GOVERNING CODES
1991 UNIFORM BUILDING CODE
1990 NATIONAL ELECTRICAL CODE
1988 UNIFORM PLUMBING CODE
1991 UNIFORM MECHANICAL CODE
AMERICAN CONCRETE INSTITUTE STANDARD 318–89
AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS ASD–89

GROSS AREA: 5,732 SQUARE FEET
OCCUPANCY: B2
OCCUPANT LOAD: 49 PERSONS
CONSTRUCTION TYPE: TYPE V N

NO.	DATE	PREPARED BY	CHECKED BY	PE APPROVED	ENGR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	JMENENDEZ	R.WOLFF	JL/TLS	EHM/RAR	REVISED PER AS–BUILT CONDITIONS

P.R. LICENCE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O. BOX 363028
SAN JUAN, PUERTO RICO 00936–3028

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

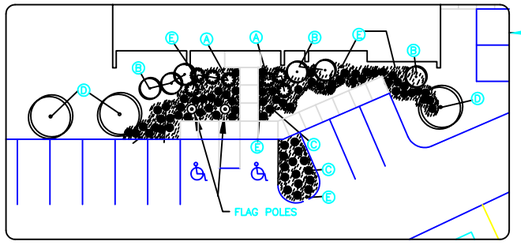
SEPO

DRAWN: D. ANTONUTTI
CHECKED: J. MENENDEZ
SUPV. ENGR.: JMD
ENGR/PROJ. MGR.: JL/TLS
ACCPT. ENGR: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)
WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
INDEX/GENERAL INFORMATION

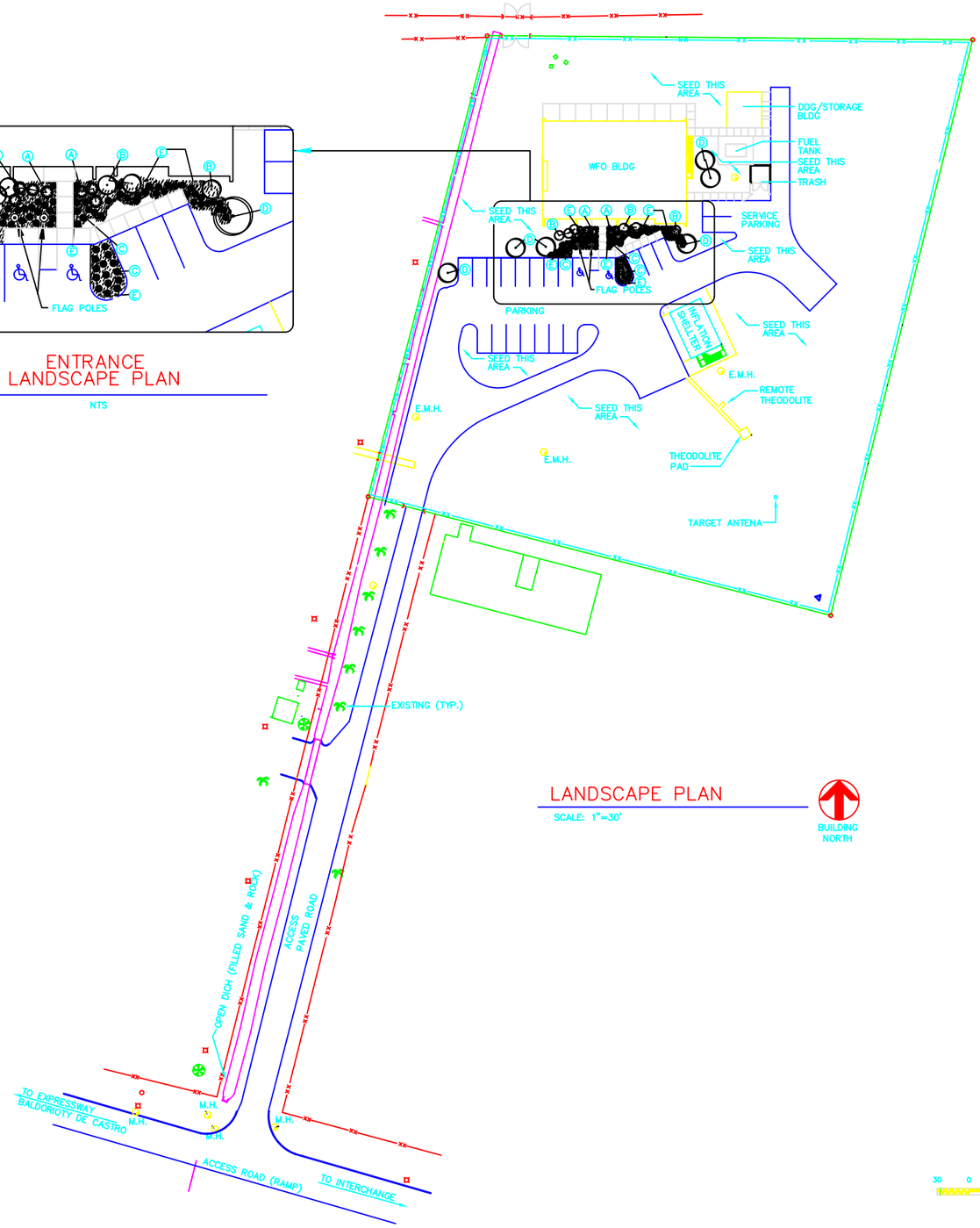
449404–	SIZE 5	DWG. NO. I01	CLIN. GO	REV. 1

TDSP0004 09/07/94 15:39 SHS N:\Zdwg\WCODO011



ENTRANCE LANDSCAPE PLAN

NTS



LANDSCAPE PLAN

SCALE: 1"=30'

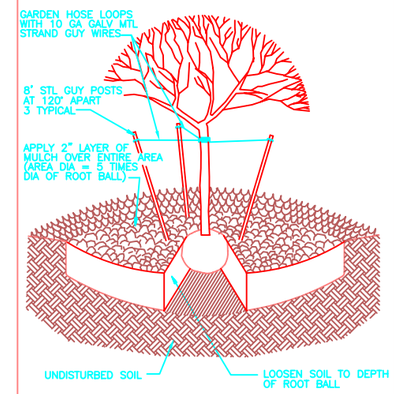
BUILDING NORTH

30 0 30 60 90

1" = 30'

NOTES

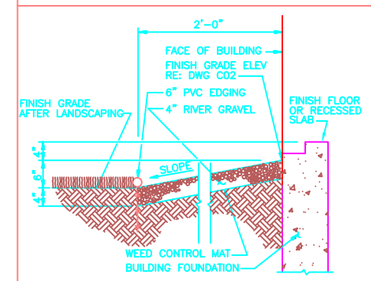
1. SEED ALL AREAS DISTURBED BY CONSTRUCTION NOT OTHERWISE COVERED BY PAVING BUILDING OR LANDSCAPING.
2. SEE CIVIL DRAWINGS C01 AND C02 FOR SPECIFIC DETAILS OF SITE LAYOUT, SIDEWALKS, LIGHTING AND PAVING.
3. SITE DRAWING A01 IS FOR LANDSCAPE PURPOSES ONLY.
4. TREES SHALL BE PLANTED PER TYPICAL TREE PLANTING DETAIL.
5. SHRUBS SHALL BE PLANTED PER SPECIFICATIONS.



TYPICAL TREE PLANTING DETAIL

SCALE: NONE

NOTE: WATER HOLDING BERM NOT RECOMMENDED



TYPICAL RIVER GRAVEL AND EDGING DETAIL

SCALE: NONE

PLANTING KEY

TYPE	COMMON NAME	BOTANICAL NAME	QTY	SIZE
A	JENGIBRE ROJO	ALPINIA PURPUREA	7	1 GAL
B	HIBISCO HIBRIDO	HIBISCUS HIBRID	6	1 GAL
C	ESPARRAGO	SPARRAGUS SPRENGARY	80	1 GAL
D	ARBOL DE ORQUIDEA	BAHUHINIA PURPUREA	6	H=84"
E	CORTEZA DE PINO	PINE BARK MED COARSE	–	2"

NO.	DATE	PREPARED BY	CHECKED BY	FDI APPROVED	ACTR/CORR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	JMENENDEZ	R.WOLFF	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

GARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 362008
SAN JUAN, P.R. 00936-2008

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
SUNNYVALE CRTV, MD.
U.S.A.

SEPO

DRAWN: D. ANTONUTTI
CHECKED: J. MENENDEZ
SUP'V. ENGR: JMP
ENGR/PROJ. MGR: JL/TLS
ACTR/CORR: EHM/RAR

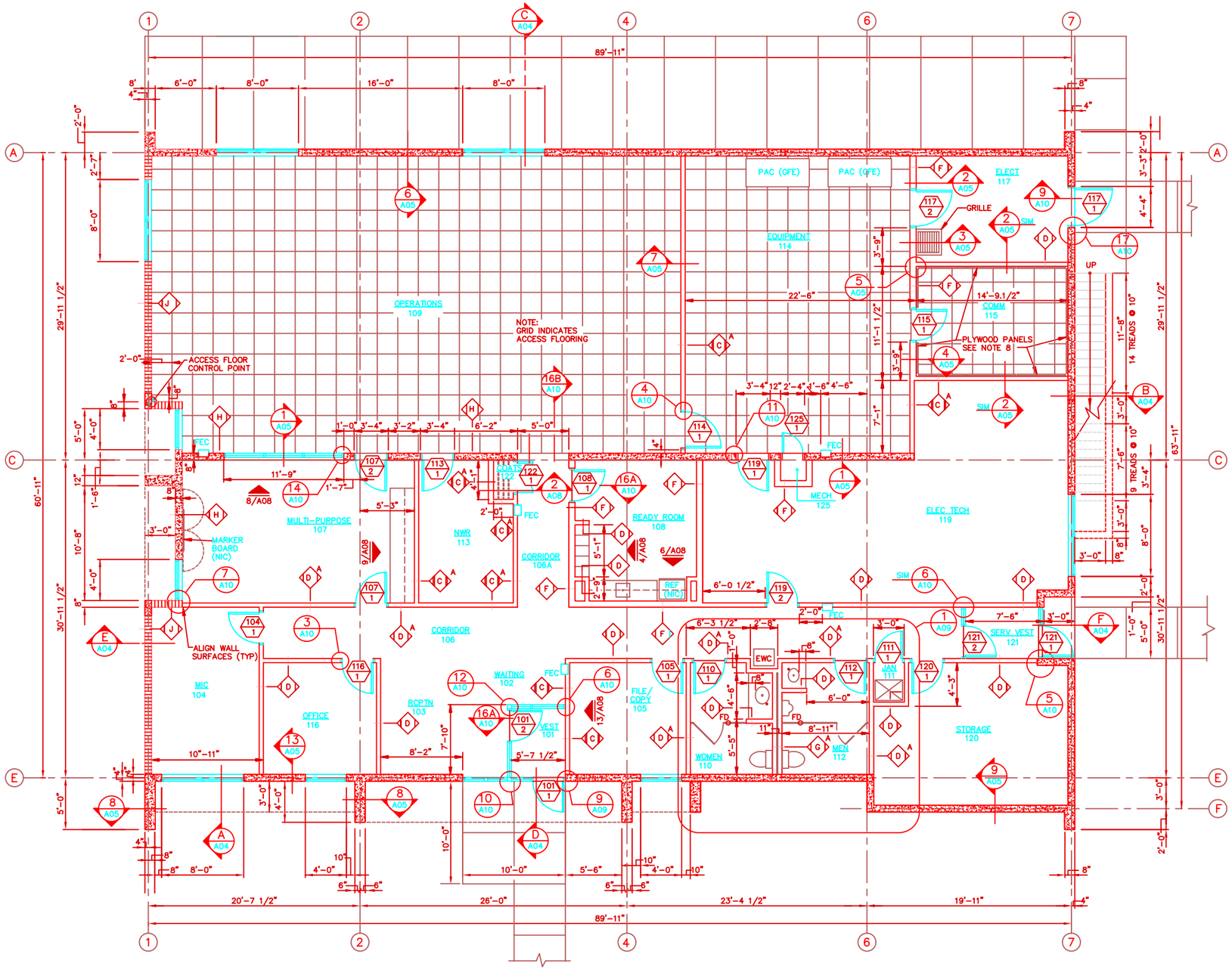
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

LANDSCAPE PLAN

449404–	SIZE 5	DWG. NO. A01	CLIN. GO	REV. 1

FDSP0004 09/01/94 16:08 SJL 1=30' KCG0A011



FLOOR PLAN

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

BUILDING NORTH

GENERAL NOTES

1. DIMENSIONS ARE FROM COLUMN LINE TO FINISHED FACE OR FROM FINISHED FACE TO FINISHED FACE OF PARTITIONS UNLESS NOTED OTHERWISE.
2. FINISH FLOOR ELEV = 0'-0" (EXCEPT AT ACCESS FLOOR) SEE DRAWING C02 FOR ACTUAL ELEVATIONS.
3. SEE DRAWING C02 FOR SIDEWALK LOCATIONS.
4. DO NOT SCALE DRAWINGS.
5. PROVIDE VENETIAN BLINDS AT ALL EXTERIOR GLAZED OPENINGS EXCEPT AT VEST 101, SERV VEST 121 AND SERV VEST 122. BLIND WIDTH SHALL FIT INSIDE MULLIONS AT ALL LOCATIONS.
6. PROVIDE VENETIAN BLINDS AT INTERIOR GLAZED OPENINGS OF MULTI-PURPOSE 107. BLIND WIDTH SHALL FIT INSIDE THE MULLIONS.
7. PROVIDE CONTINUOUS VAPOR BARRIER MEMBRANE AT FLOOR SLAB.
8. PROVIDE 3/4" PLYWOOD SHEETS MOUNTED WALL TO WALL (TYP FOR ALL WALLS). PLYWOOD SHALL EXTEND FROM 2" BELOW ACCESS FLOOR TO STRUCTURE ABOVE.
9. REFER TO SHEET A11 FOR DDG/STORAGE BUILDING DRAWINGS.
10. PROVIDE STORM SHUTTERS AT ALL WINDOWS AND GLASS DOORS, REFER TO SPEC NO. 08667 STORM SHUTTERS FOR WINDOWS SHALL BE OPERATED FROM OUTSIDE. STORM SHUTTERS FOR DOORS SHALL BE OPERATED FROM INSIDE.

SUBMIT SHOP DRAWING FOR APPROVAL.

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	PM APPROVED	ACTR/CONTR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	J.MENENDEZ	R.WOLFF	J.L./TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
PARCE 30B38
SAN JUAN, P.R. 00926-3038

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

SPECIAL ENGINEERING PROGRAM OFFICE
SEPO
WEATHER FORECAST OFFICE

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN D. ANTONUTTI
CHECKED J. MENENDEZ
SUP'V. ENGR. JMP
ENGR./PROJ. MGR. JL./TLS
ACCTR./CONTR. EHM/RAR

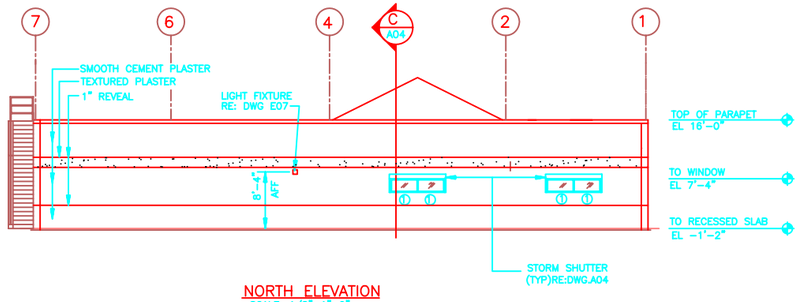
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

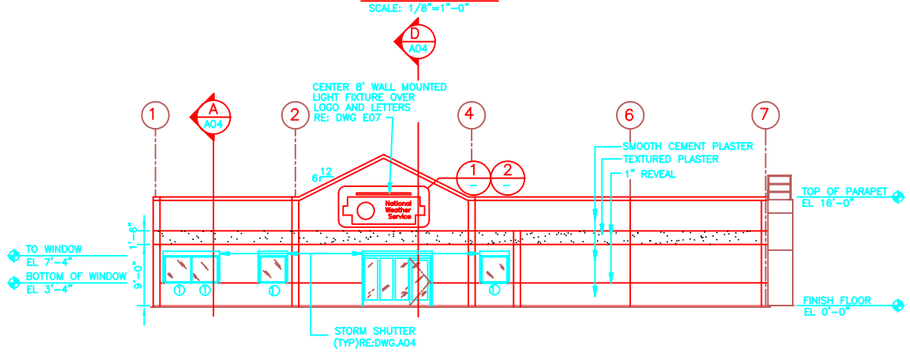
FLOOR PLAN

SIZE	DWG. NO.	CLIN.	REV.
449404- 5	A02	G0	1

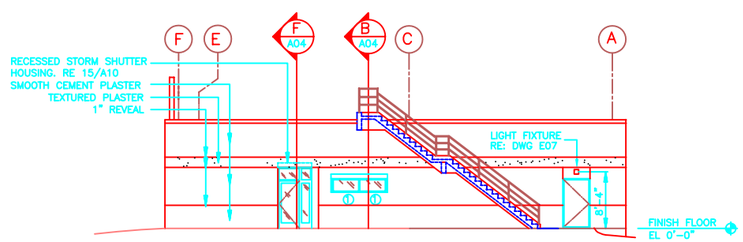
FDSP0004 09/01/94 16:22/&&1'/j6@#A08D0A021



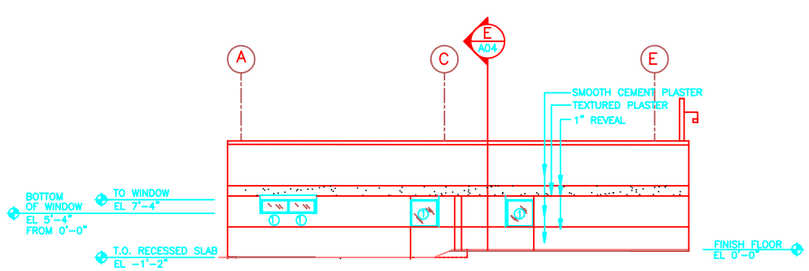
NORTH ELEVATION
SCALE: 1/8"=1'-0"



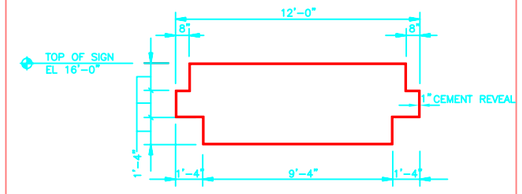
SOUTH ELEVATION
SCALE: 1/8"=1'-0"



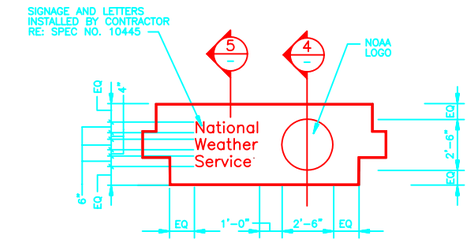
EAST ELEVATION
SCALE: 1/8"=1'-0"



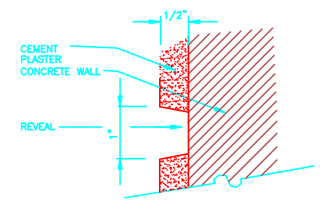
WEST ELEVATION
SCALE: 1/8"=1'-0"



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

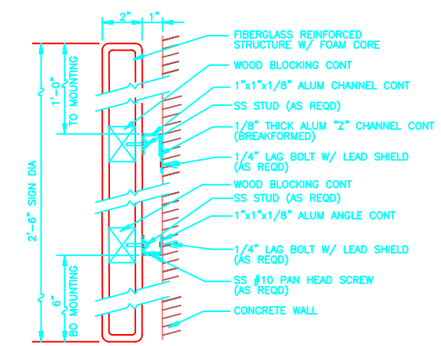


DETAIL 2
SCALE: 3/8=1'-0"



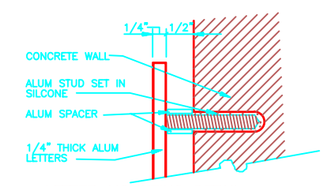
CEMENT PLASTER REVEAL

DETAIL 3
SCALE: NONE



LOGO MOUNTING DETAIL

DETAIL 4
SCALE: NONE



LETTER MOUNTING DETAIL

DETAIL 5
SCALE: NONE

KEY

GLASS SCHEDULE

1 1" CLEAR INSULATING GLASS

0 2' 4' 6' 8'
SCALE: 3/8"=1'-0"

0 4' 8' 16' 24'
SCALE: 1/8"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	PM APPROVED	ACTN/CODE APPROVED	DESCRIPTION OF REVISION
1	6/17/94	JMENENDEZ	R.WOLFF	R.WOLFF	R.WOLFF	REVISED PER AS-BUILT CONDITIONS

P.R. LICENCE SEAL

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

CARIBBEAN ARCHITECTS & ENGINEERS
P.A.NUM 3029088
SAN JUAN, P.R. 00925-3028

SEPO

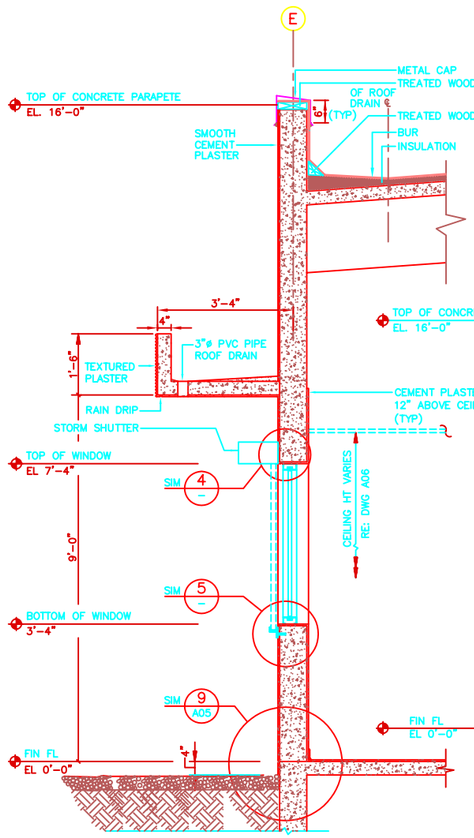
DRAWN D. ANTONIUTTI
CHECKED J. MENENDEZ
SUP'V. ENGR. JMP
ENGR/PROJ. MGR. JL/TLS
ACCTS./CONS. DRM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)
WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

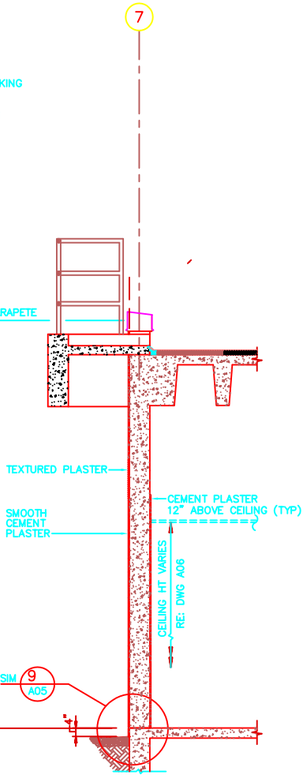
ELEVATIONS

449404-	SIZE 5	DWG. NO. A03	CLIN. G0	REV. 1

FDS90004 09/01/94 16:23 SQB:*+79:46EDWSDBA031



SECTION A
SCALE: 3/4"=1'-0"
A02 A03 A06 A07



SECTION B
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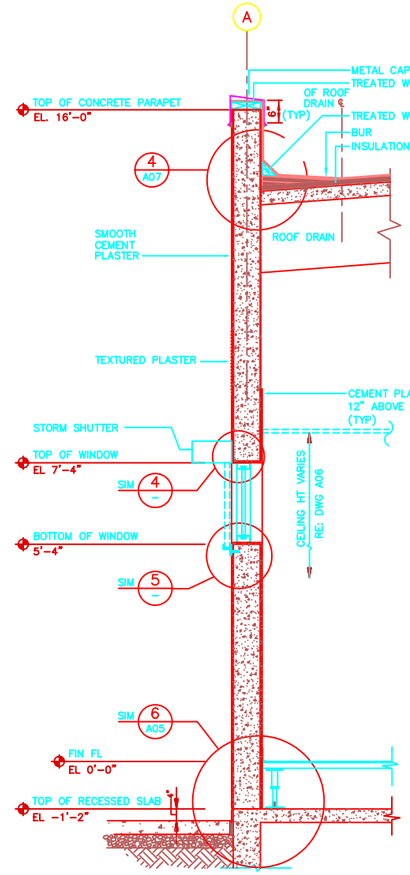
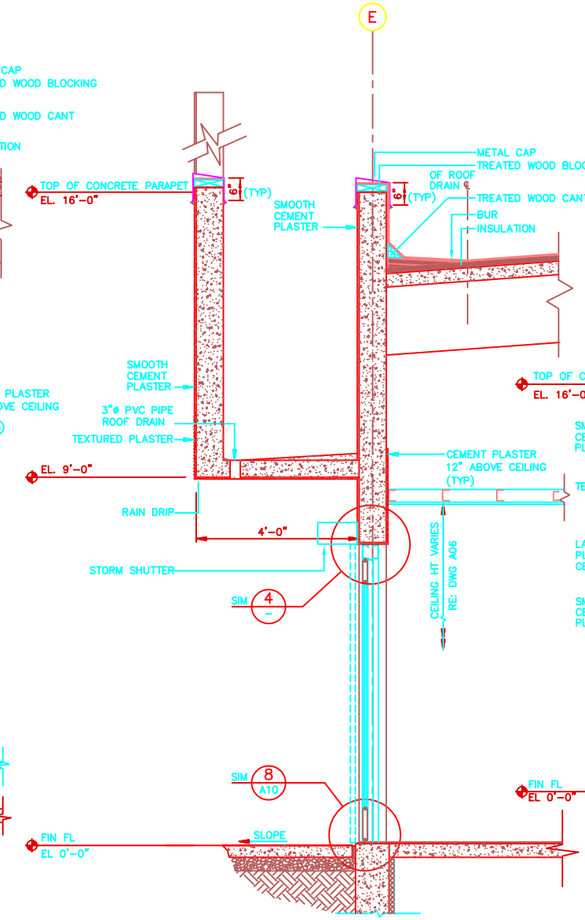
A02 A03 A06 A07



SECTION C
SCALE: 3/4"=1'-0"
A02 A03 A06 A07



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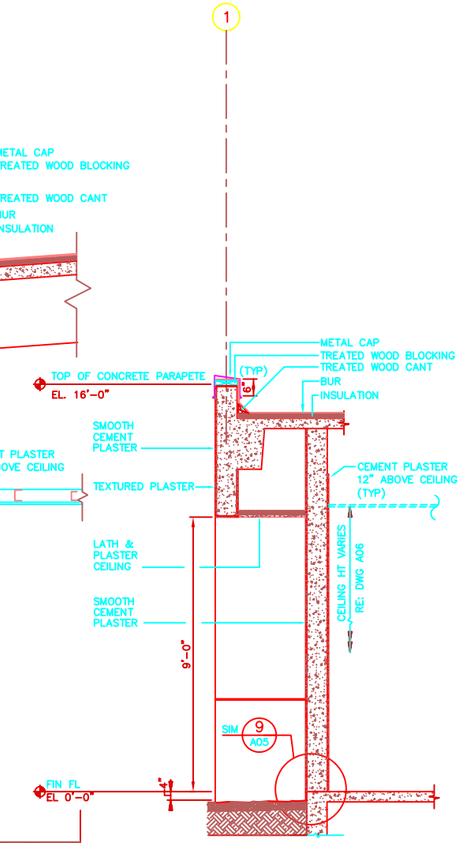
A02 A03 A06 A07



SECTION E
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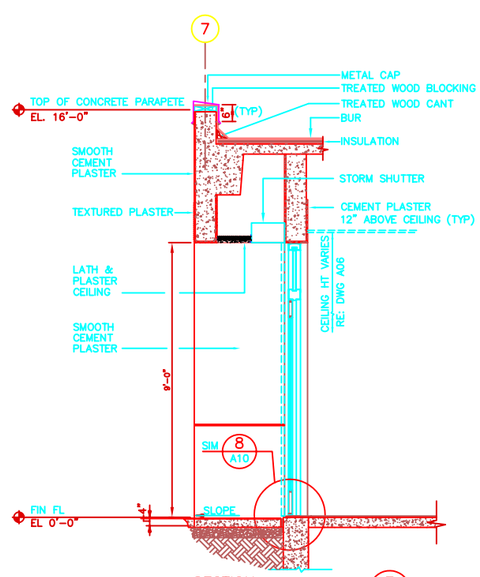
A02 A03 A06



SECTION F
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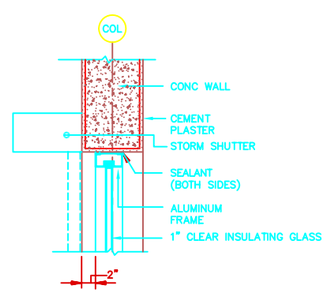
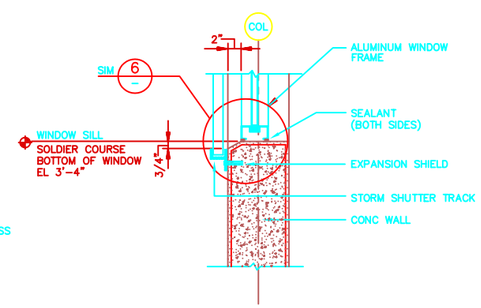
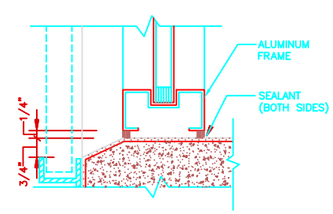
A02 A03 A06



HEAD
DETAIL 4 –
SCALE: 1 1/2"=1'-0"



SILL
DETAIL 5 –
SCALE: 1 1/2"=1'-0"



SILL
DETAIL 6 –
SCALE: NONE

NOTES:
1.– STORM SHUTTERS FOR WINDOWS SHALL BE OPERATED FROM OUTSIDE.
2.– STORM SHUTTERS FOR DOORS SHALL BE OPERATED FROM INSIDE
3.– FOR STORM SHUTTERS SPECS SEE SECTION 08667

0 1' 2' 4' 6'
SCALE: 1/2"=1'-0"
0 1' 2' 3' 4'
SCALE: 3/4"=1'-0"
0 6" 1' 2'
SCALE: 1 1/2"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	PM APPROVED	ACOR/CORR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	J.MENENDEZ	R.WOLFF	R.WOLFF	R.WOLFF	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.A.NO. 3030
SAN JUAN, P.R. 00920-3020

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

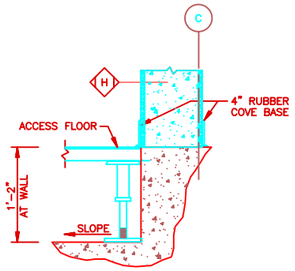
SEPO
SPECIAL ENGINEERING PROGRAM OFFICE
NATIONAL WEATHER SERVICE AND ATMOSPHERIC ADMINISTRATION

DRAWN D. ANTONUTTI
CHECKED J. MENENDEZ
SUP'V. ENGR. JMP
ENGR/PROJ. MGR. JL/TLS
ACOR/CORR. EMU/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)
WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
WALL SECTIONS/DETAILS

449404– | SIZE 5 | DWG. NO. A04 | CLIN. GO | REV.

FDSP0004



SECTION 1 A02
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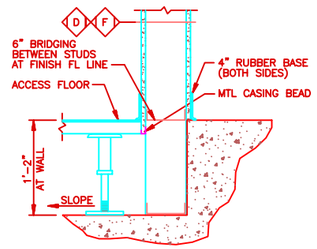

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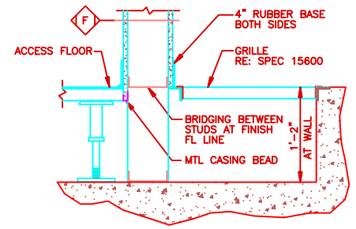

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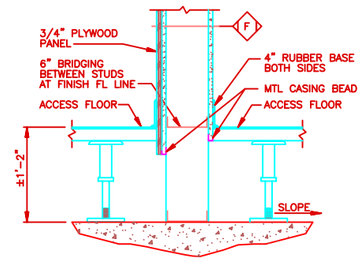

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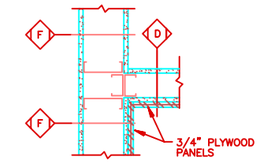
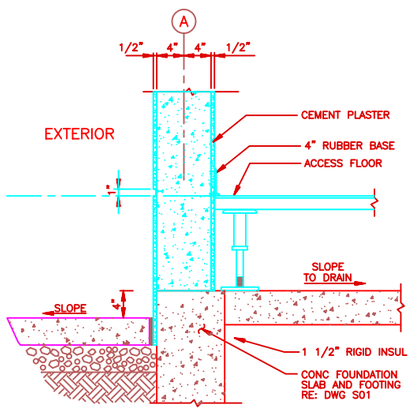


DETAIL 5 A02
SCALE: 1 1/2"=1'-0"



SECTION 6 A02 A04
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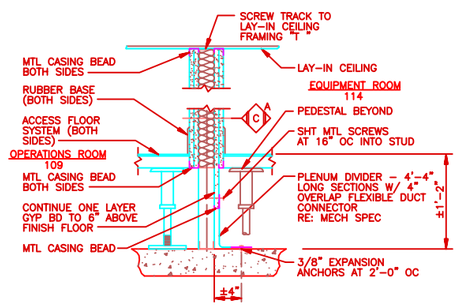
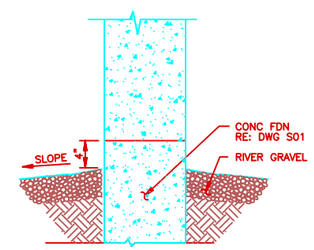
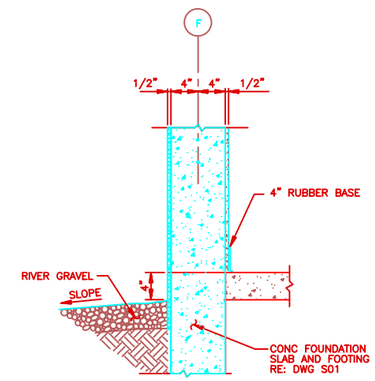


SECTION 7 A02
SCALE: 1 1/2"=1'-0"



SECTION 8 A02
SCALE: 1 1/2"=1'-0"



DETAIL 9 A04
SCALE: 1 1/2"=1'-0"

0 6" 1' 2'
SCALE: 1 1/2"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS
1	6/17/94	JMENDNDEZ	R.WOLFF		ACTN/CODE APPROVED	DESCRIPTION OF REVISION

P.R. LICENSE SEAL

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

CARIBBEAN ARCHITECTS & ENGINEERS
PA2636 S6966
SAN JUAN, P.R. 00936-3666

SEPO

DRAWN: D. ANTONUTTI
CHECKED: J. MENENDEZ
SUPV. ENGR.: JMP
ENGR/PROJ. MGR.: JL/TLS
ACCEL/CODE: EHM/RAR

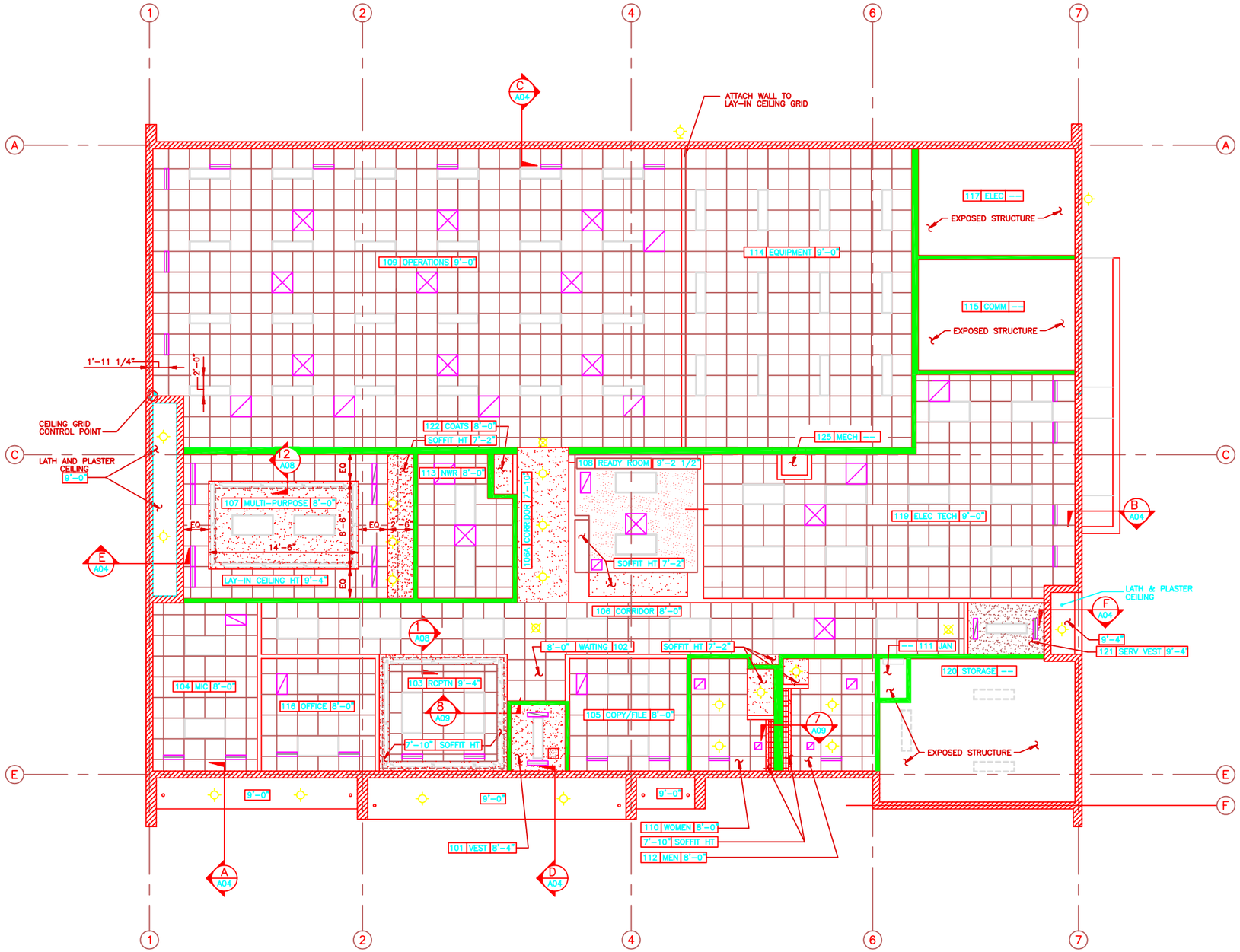
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

DETAILS

449404–	SIZE 5	DWG. NO. A05	CLIN. G0	REV. 1

FDSP0004 09/01/94 16:38 SAL1 22"x34" MODMAN8B1



REFLECTED CEILING SYMBOLS

RM NO | ROOM NAME | CLG HT

- FLUORESCENT FIXTURE
- FLUORESCENT FIXTURE
- FLUORESCENT FIXTURE – CHAIN HUNG
- WALL MOUNT FLUORESCENT FIXTURE
- STRIP FLUORESCENT FIXTURE
- COVE LIGHTING LOUVERS
- EXIT SIGN
- WALL MTD INCANDESCENT
- RECESSED CAN LIGHT
- LINEAR SLOT DIFFUSER
- LINEAR SLOT RETURN
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- 2x2 ACST LAY-IN TILE CEILING GRID PATTERN
- INTERIOR PARTITION TO EXTEND TO BOTTOM OF STRUCTURE ABOVE
- INTERIOR PARTITION GYP BOARD TO EXTEND MINIMUM 4" ABOVE CEILING
- GYP BOARD PARTITION ABOVE READY ROOM CEILING. WALL IS ATTACHED TO CONCRETE SLAB AND EXTENDS TO STRUCTURE ABOVE. RE: MECH EQUIPMENT SPACE PLAN
- EXTERIOR WALL TO EXTEND TO STRUCTURE
- GYPSUM BOARD CEILING
- 12" x 12" CEILING ACCESS PANEL

REFLECTED CEILING PLAN

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

BUILDING NORTH

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	PM APPROVED	ACTR/CONTR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	JMENENDEZ	R.WOLFF	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.E. LICENSE SEAL

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PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
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U.S.A.

SEPO

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN D. ANTONUTTI
CHECKED J. MENENDEZ
SUPV. ENGR. JMP
ENGR/PROJ. MGR. JL/TLS
ACTR/CONTR. EHM/RAR

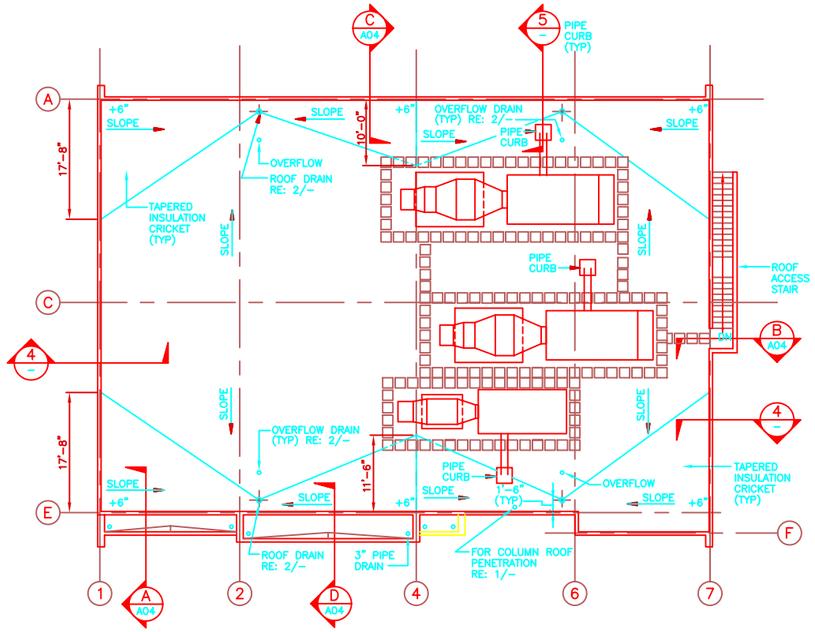
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

REFLECTED CEILING PLAN

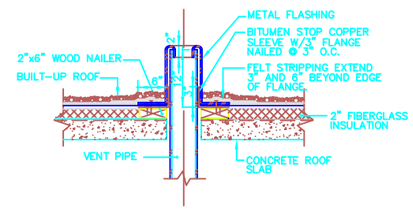
449404–	SIZE 5	DWG. NO. A06	CLIN. G0	REV. 1

FDSP0004 09/01/94 16:43:59S"4Y4W57M0B0A061



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

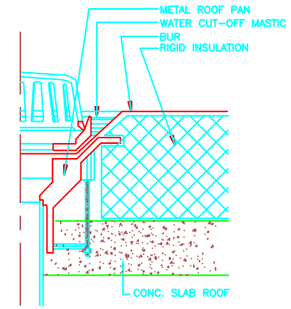
BUILDING NORTH



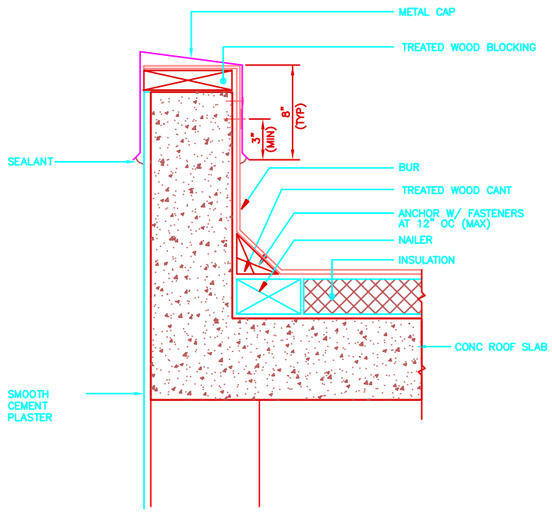
FLASHING AT TUBE

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

NOTES: FOR STL TUBING WITH ANY DIMENSION GREATER THAN 4" TUBE MUST BE FLASHED AS A CURB.

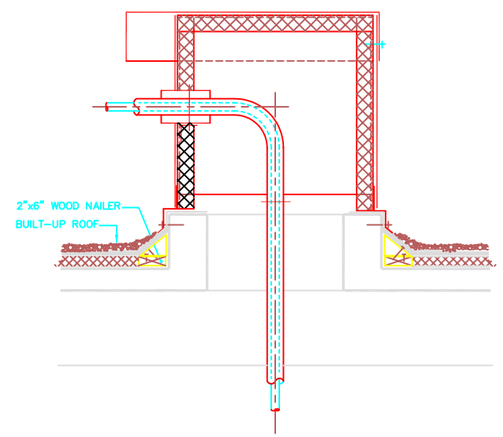


SECTION 2
SCALE: 1 1/2"=1'-0"



TYP ROOF PARAPET

SECTION 4
SCALE: 3"=1'-0"



PIPE CURB

SECTION 5
SCALE: NONE

REFER TO DRAWING M04 FOR COVER DETAILS

0 3" 6" 1'-0"
SCALE: 3"=1'-0"

0 4' 8' 16' 24'
SCALE: 1/8"=1'-0"

0 6" 1' 2'
SCALE: 1 1/2"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVED	ACTR/ACOR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	JMENENDEZ	R.WOLFF	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.E. LICENCE SEAL

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WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN: D. ANTONUTTI
CHECKED: J. MENENDEZ
SUP'V. ENGR.: JMP
ENGR/PROJ. MGR.: JL/TLS
ACOTR/COTR: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

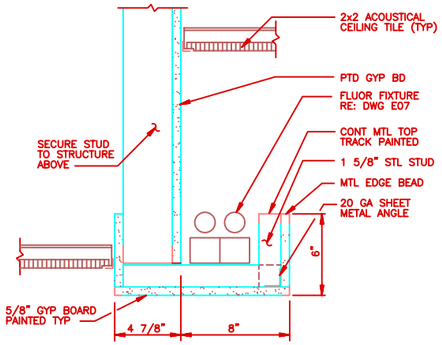
WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

ROOF PLAN/DETAILS

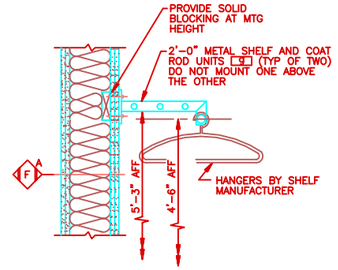
SIZE	DWG. NO.	CLIN.	REV.
5	A07	G0	1

449404-

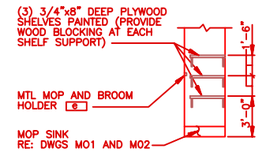
FDSP0004 09/01/94 16:39:51L 3/09/92D04071



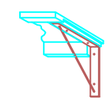
COVE LIGHT
SECTION 1 / A06
SCALE: 3"=1'-0"



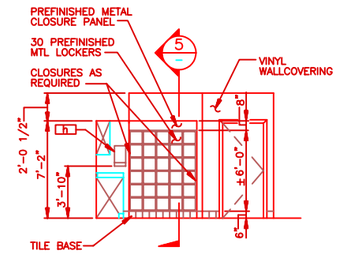
SHELF & COAT ROD
SECTION 2 / A02
SCALE: 1 1/2"=1'-0"



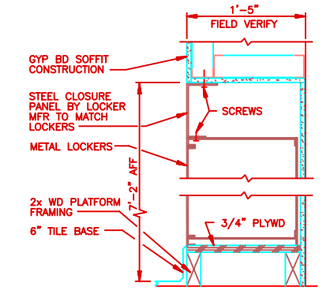
JANITOR #111
ELEVATION 3 / A09
SCALE: 1/4"=1'-0"



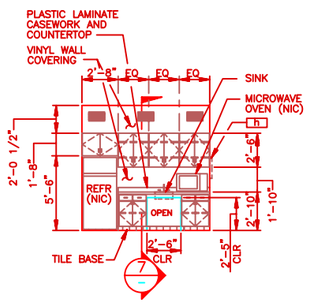
ISOMETRIC DETAIL



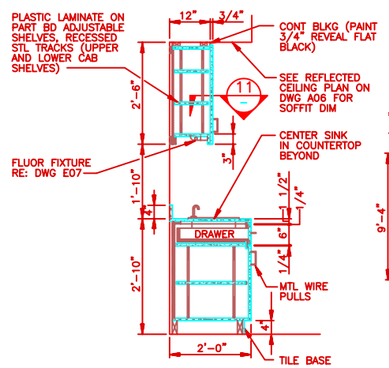
READY ROOM #108
ELEVATION 4 / A02
SCALE: 1/4"=1'-0"



LOCKER HEAD/BASE
SECTION 5 / –
SCALE: 1 1/2"=1'-0"

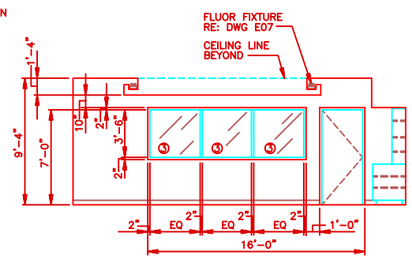


READY ROOM #108
ELEVATION 6 / A02
SCALE: 1/4"=1'-0"

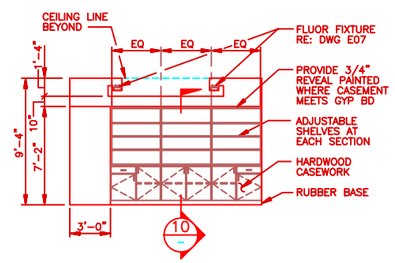


CABINETRY
SECTION 7 / –
SCALE: 3/4"=1'-0"

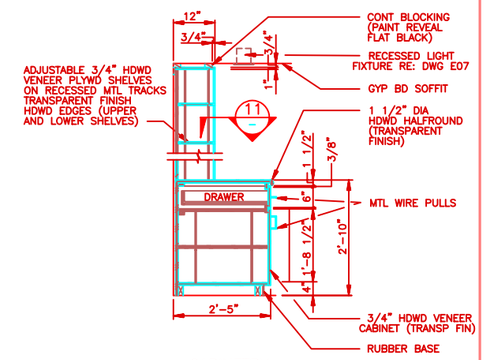
NOTE:
INSULATE ALL EXPOSED PIPES.
3/4" PART BD W/ PLASTIC LAMINATE FINISH FOR ALL BASE AND UPPER CABINETS, BACKSPLASH AND COUNTERTOP.



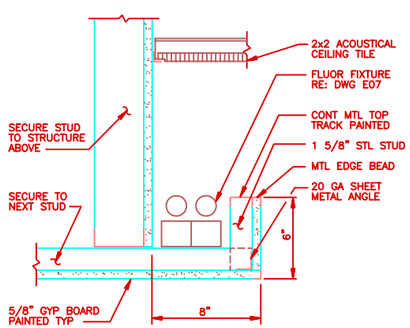
MULTI-PURPOSE ROOM #107
ELEVATION 8 / A02
SCALE: 1/4"=1'-0"



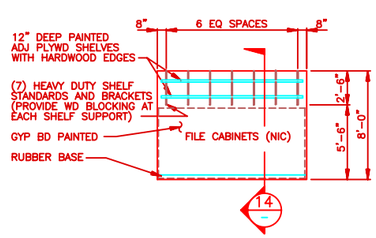
MULTI-PURPOSE #107
ELEVATION 9 / A02
SCALE: 1/4"=1'-0"



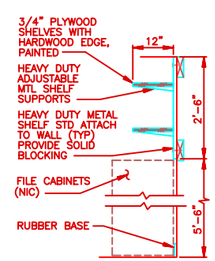
CABINETRY
SECTION 10 / –
SCALE: 3/4"=1'-0"



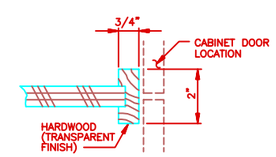
COVE LIGHT
SECTION 12 / A06
SCALE: 3"=1'-0"



FILE/COPY #105
ELEVATION 13 / A02
SCALE: 1/4"=1'-0"



SHELVES
SECTION 14 / –
SCALE: 3/4"=1'-0"



SECTION 11 / –
SCALE: NONE

GLASS TYPES
1/4" CLEAR GLASS

ACCESSORIES
e MOP AND BROOM HOLDER
g COAT ROD AND SHELF
h TOWEL DISPENSER

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"
0 1' 2' 3' 4'
SCALE: 3/4"=1'-0"
0 6" 1' 2'
SCALE: 1 1/2"=1'-0"
0 3" 6" 1'-0"
SCALE: 3"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	RD APPROVED		DESCRIPTION OF REVISION
1	6/17/94	JMENENDEZ	R.WOLFF	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.E. LICENSE SEAL

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SEPO

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRWN. D. ANTONUTTI
CHECKED J. MENENDEZ
SUP'V. ENGR. (MP
ENGR/PROJ. MGR. JL/TLS
ACOTR/COTR EHM/RAR

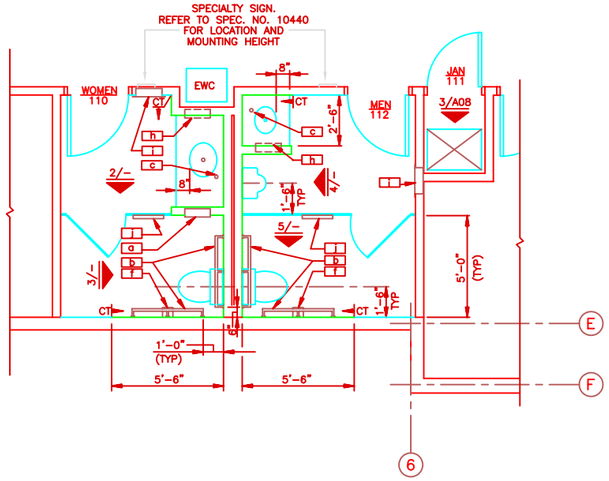
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

DETAILS AND INTERIOR ELEVATIONS SHT 1 OF 2

449404–	SIZE 5	DWG. NO. A08	CLIN. G0	REV. 1

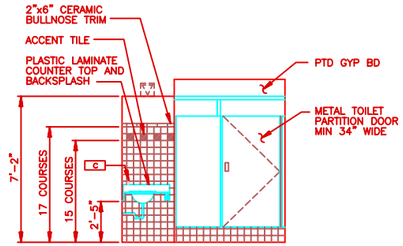
FDSP0004 09/07/94 08:04 d8"%/4=4C0K6BB9A081



TOILET ROOM PLAN

DETAIL 1 A02

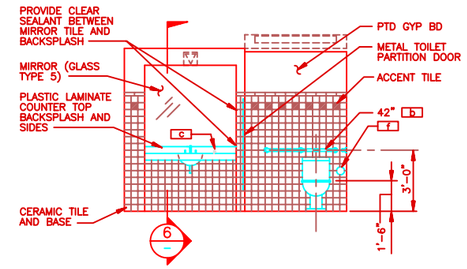
SCALE: 3/8"=1'-0"



WOMEN #110

ELEVATION 2

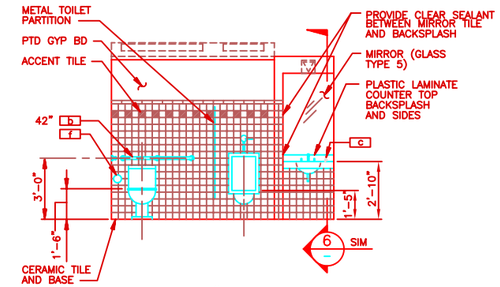
SCALE: 3/8"=1'-0"



WOMEN #110

ELEVATION 3

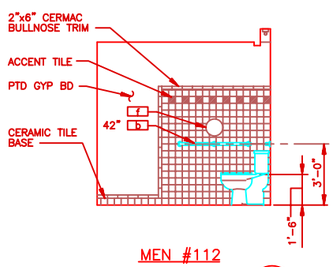
SCALE: 3/8"=1'-0"



MEN #112

ELEVATION 4

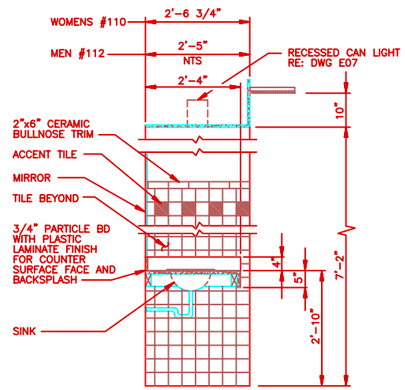
SCALE: 3/8"=1'-0"



MEN #112

ELEVATION 5

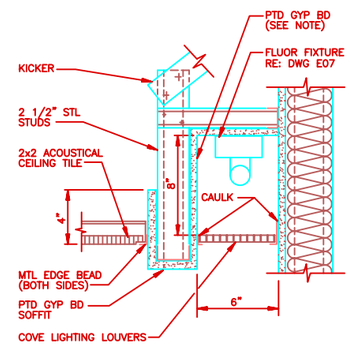
SCALE: 3/8"=1'-0"



LAVATORY

SECTION 6

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



COVE LIGHT

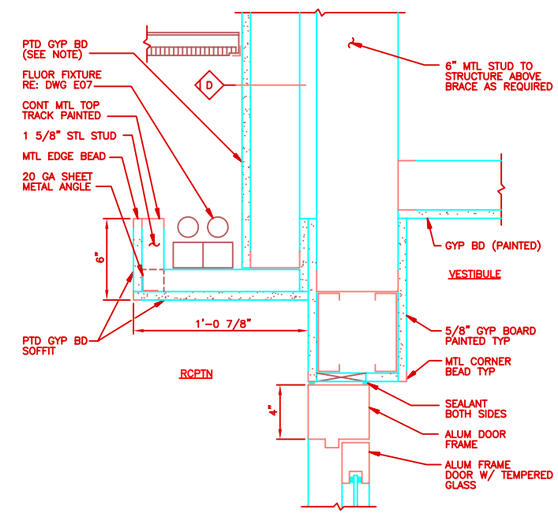
SECTION 7

SCALE: 3"=1'-0"

A06

NOTE:

PAINT THE INTERIOR GYP BD OF COVE THE SAME COLOR AS SOFFIT.



COVE LIGHT/HEAD

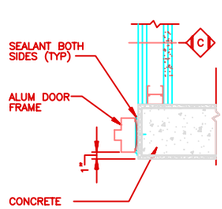
(SEE DOOR SCHEDULE A10)

DETAIL 8 A06

SCALE: 3"=1'-0"

NOTE:

PAINT THE INTERIOR GYP BD OF COVE THE SAME COLOR AS SOFFIT.



DETAIL 9 A02

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

GLASS TYPES

(5) 1/4" CLEAR FLOAT MIRROR GLASS

ACCESSORIES

- a SANITARY NAPKIN/TAMPON VENDOR AND DISPOSAL UNIT (MOUNT TOP OF UNIT AT 4'-9" AFF)
- b GRAB BARS
- c SOAP DISPENSERS
- f TOILET TISSUE DISPENSER
- h TOWEL DISPENSER
- WASTE RECEPTACLE (MOUNT TOP OF UNIT AT 3'-2" AFF)
- TOILET SEAT COVER DISPENSER (MOUNT TOP OF UNIT AT 3'-8 1/2" AFF)

0 2' 4' 6' 8'
SCALE: 3/8"=1'-0"

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

0 6" 1' 2'
SCALE: 1 1/2"=1'-0"

0 3" 6" 1'-0"
SCALE: 3"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVAL	ACTR/CORR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	MENENDEZ	R.WOLFF	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.E. LICENSE SEAL

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN D. ANTONUTTI
CHECKED J. MENENDEZ
SUP'V. ENGR. JMP
ENGR/PROJ. MGR. JL/TLS
ACCTR/CORR. EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

DETAILS AND INTERIOR ELEVATIONS SHT 2 OF 2

CARIBBEAN ARCHITECTS & ENGINEERS
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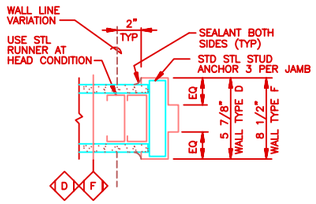
PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

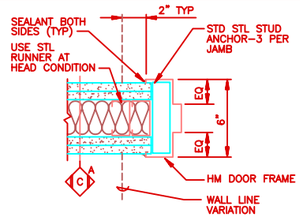
SEPO

449404–	SIZE 5	DWG. NO. A09	CLN. GO	REV. 1

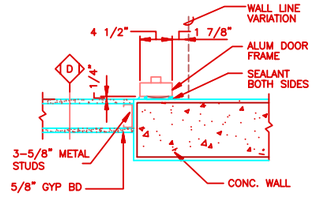
FD3P0004 09/07/94 08:03 3/8"=1'-0" 1/2"=1'-0" 1'-0" 3"=1'-0" 1/4"=1'-0" 1/2"=1'-0" 1/8



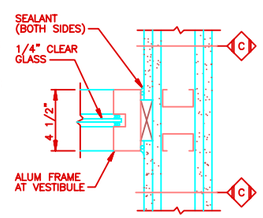
HEAD/JAMB #3
(SEE DOOR SCHEDULE THIS DWG)
DETAIL 3 / A02
SCALE: 3"=1'-0"



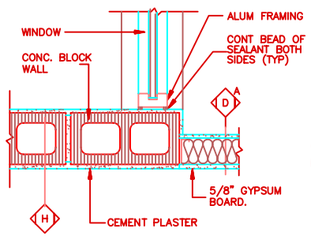
HEAD/JAMB #4
(SEE DOOR SCHEDULE THIS DWG)
DETAIL 4 / A02
SCALE: 3"=1'-0"



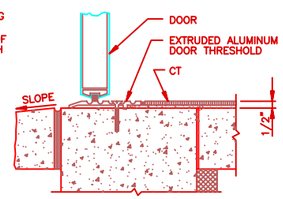
JAMB #5 AT SERV VEST
(SEE DOOR SCHEDULE THIS DWG)
DETAIL 5 / A02
SCALE: 1 1/2"=1'-0"



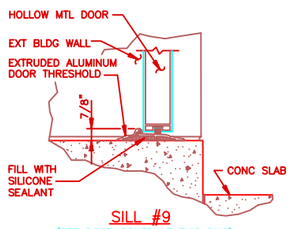
DETAIL 6 / A02
SCALE: 3"=1'-0"



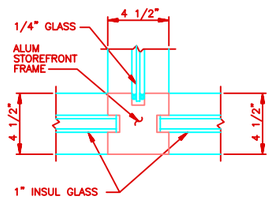
DETAIL 7 / A02
SCALE: 1 1/2"=1'-0"



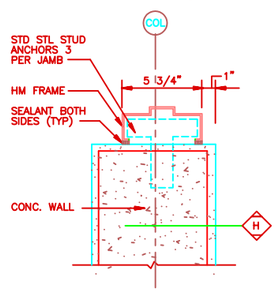
SILL #8
(SEE DOOR SCHEDULE THIS DWG)
DETAIL 8 / A04
SCALE: 3"=1'-0"



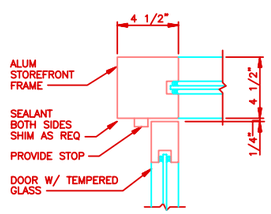
SILL #9
(SEE DOOR SCHEDULE THIS DWG)
SECTION 9 / A02
SCALE: 3"=1'-0"



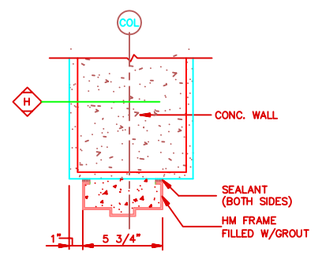
DETAIL 10 / A02
SCALE: 3"=1'-0"



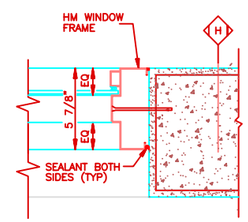
JAMB #11
(SEE DOOR SCHEDULE THIS DWG)
DETAIL 11 / A02
SCALE: 1 1/2"=1'-0"



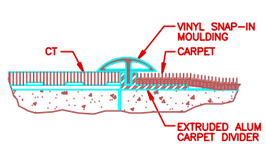
JAMB #12
(SEE DOOR SCHEDULE THIS DWG)
DETAIL 12 / A02
SCALE: 3"=1'-0"



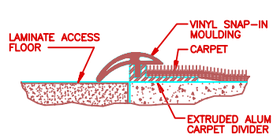
HEAD #13
(SEE DOOR SCHEDULE THIS DWG)
DETAIL 13 / --
SCALE: 1 1/2"=1'-0"



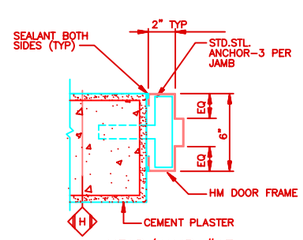
DETAIL 14 / A02
SCALE: 3"=1'-0"



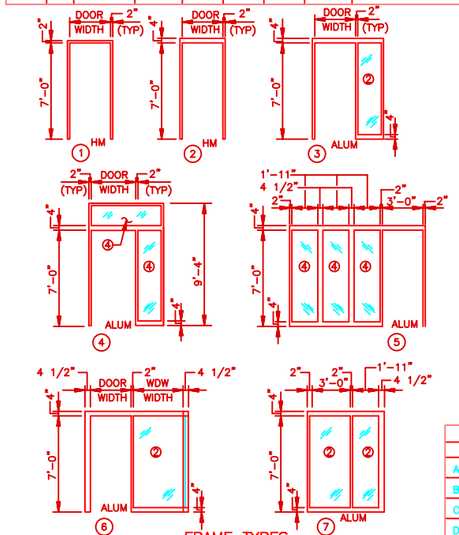
CARPET/TILE DIVIDER #16A
(SEE DOOR SCHEDULE THIS DWG)
SECTION 16A / A02
SCALE: NONE



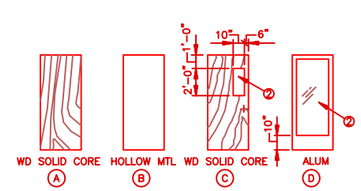
CARPET/LAMINATE DIVIDER #16B
(SEE DOOR SCHEDULE THIS DWG)
SECTION 16B / A02
SCALE: NONE



HEAD/JAMB #17
(SEE DOOR SCHEDULE THIS DWG)
DETAIL 17 / A02
SCALE: 3"=1'-0"



FRAME TYPES
ELEVATION 1 / --
SCALE: NONE



DOOR TYPES
ELEVATION 2 / --
SCALE: NONE

0 6" 1' 2'
SCALE: 1 1/2"=1'-0"

0 3" 6" 1'-0"
SCALE: 3"=1'-0"

DOOR SCHEDULE

MARK	DOOR		FRAME	DETAILS				REMARKS
DOOR NUMBER	TYPE	SIZE	TYPE	HEAD	JAMB	JAMB	SILL	
101/1	D	3'x7'	5	4/A10 SIM	9/A09	9/A09 SIM	8/A10	
101/2	D	3'x7'	6/7	8/A09	12/A10 SIM	12/A10	16A/A10	
104/1	A	3'x7'	1	3/A10	3/A10	3/A10	---	
105/1	A	3'x7'	1	3/A10	3/A10	3/A10	---	
107/1	C	3'x7'	1	3/A10	3/A10	3/A10	---	
107/2	C	3'x7'	1	17/A10	17/A10	17/A10	16B/A10	
108/1	A	3'x7'	1	3/A10	3/A10	3/A10	16A/A10	
110/1	A	3'x7'	1	3/A10	3/A10	3/A10	16A/A10	
111/1	A	2'-8"x7'	1	3/A10	3/A10	3/A10	16B/A10 SIM	UNDERCUT 1"
112/1	A	3'x7'	1	3/A10	3/A10	3/A10	16A/A10	
113/1	C	3'x7'	1	17/A10	17/A10	17/A10	16B/A10	
114/1	C	3'-6"x7'	1	4/A10	4/A10	4/A10	---	
115/1	B	3'x7'	1	3/A10	3/A10	3/A10	---	
116/1	A	3'x7'	1	3/A10	3/A10	3/A10	---	
117/1	B	3'-8"x7'	2	13/A10	11/A10	11/A10	9/A10	
117/2	B	3'-6"x7'	1	3/A10	3/A10	3/A10	---	
118/1	B	3'x7'	2	13/A10	11/A10	11/A10	9/A10	PAIR
119/1	C	3'x7'	1	17/A10	17/A10	17/A10	---	
119/2	C	3'x7'	1	3/A10	3/A10	3/A10	---	
120/1	A	3'x7'	1	3/A10	3/A10	3/A10	16B/A10 SIM	3/4 HR FIRE RATED ASSEMBLY
120A/1	B	3'x7'	2	13/A10	11/A10	11/A10	9/A10	PAIR
121/1	D	3'x7'	4	13/A10	5/A10	9/A07	8/A10	
121/2	D	3'x7'	3	--	6/A10 SIM	6/A10 SIM	16A/A10	
122/1	A	1'-6"x7'	1	4/A10	4/A10	4/A10 SIM	---	PAIR
125/1	B	3'x7'	1	17/A10	17/A10	17/A10	---	

FINISH SCHEDULE

MARK	ROOM TITLE	FINISHES								REMARKS
				WALLS						
ROOM NUMBER		FLOOR	BASE	NORTH	WEST	SOUTH	EAST	CEILING	CEILING HEIGHT	
101	VESTIBULE	I	4	F	B/F	F	B	2	8'-4"	SEE NOTE 4
102	WAITING	B	1	B	---	F	B	1	8'-0"	
103	RECEPTION	B	1	---	B/E	G/F	B/F	1/3	---	SEE NOTE 5
104	MIC OFFICE	B/D	1	B	G	G	B	1	8'-0"	SEE NOTE 4
105	FILE/COPY	B	1	B	B	G	B	1	8'-0"	
106	CORRIDOR	B	1	B	B	B	---	1	8'-0"	
106A	CORRIDOR	B	1	---	B	---	B	2	7'-10"	
107	MULTI-PURPOSE	B/C	1	D/F	D	D/F	D	1/2	---	SEE NOTE 4, 5, 6 & 7
108	READY ROOM	H	4	D	D	D	D	2	9'-2 1/2"	
109	OPERATIONS	A/F	1	E	G	G	E	1	9'-0"	SEE NOTE 2
110	WOMEN	G	3	B	B	A/G	A/B	1/3	8'-0"	SEE NOTE 1 & 5
111	JAN CLOSET	F	1	B	B	B	B	0	---	
112	MEN	G	3	A/B	A/B	A/G	B	1/3	8'-0"	SEE NOTE 1 & 5
113	NWR	B	1	E	E	E	E	1	8'-0"	
114	EQUIPMENT	A/F	1	G	B	G	B	1	9'-0"	SEE NOTE 2
115	COMM RM	A/F	1	C	C	C	C	0	---	SEE NOTE 2
116	OFFICE	B/D	1	B	B	G	B	1	8'-0"	SEE NOTE 4
117	ELECTRICAL	F	1	G	B	B	G	0	---	
118	GENERATOR	F	1	G	G	G	G	4	VARIES	
119	ELEC TECH	E	1	B/G	B	B	B/G	1	9'-0"	SEE NOTE 5 & 6
120	STORAGE	F	1	B	B	G	G	0	---	
120A	STORAGE	F	1	G	G	G	G	4	VARIES	
121	SERV VEST	I	4	B	F	B	F	2	9'-4"	SEE NOTE 4
122	COATS	B	1	B	B	B	B	3	8'-0"	
125	MECHANICAL SPACE	F	---	B	B	B	B	0	---	

DOOR SCHEDULE NOTES

1. ALL DOORS TO BE 1 3/4" THICK UNLESS NOTED OTHERWISE.
2. REFER TO SPECS FOR HARDWARE SCHEDULE.
3. ALL LATCH AND LOCKSETS TO BE LEVER OPERATED.

GLASS SCHEDULE

② 1/4" CLEAR TEMPERED GLASS
④ 1" CLEAR TEMPERED INSULATING GLASS

REMARKS

NOTE 1. WALLS NOTED TO RECEIVE BOTH "A" & "B" WALL FINISHES SHALL HAVE A CERAMIC TILE WAINSCOT 17 COURSE HIGH PLUS A BULLNOSE CAP.

NOTE 2. PROVIDE CONCRETE SEALER BELOW ALL ACCESS FLOORS INCLUDING PERIMETER CONCRETE WALLS.

NOTE 3. SEE REFLECTED CEILING PLAN FOR WALLS WHICH EXTEND TO BOTTOM OF DECK ABOVE.

NOTE 4. SEE CARPET FLOOR PLAN IN SPECIFICATION.

NOTE 5. SEE REFLECTED CEILING PLAN FOR DETAILED VARIATIONS IN CEILING HEIGHTS.

NOTE 6. WALL FINISHED AT ALCOVES TO BE SAME AS ADJACENT WALL.

FINISH KEY

FLOOR		BASE		WALLS		CEILING	
A	PLASTIC LAM*	0	NO BASE	A	CERAMIC TILE FIELD & ACCENT	0	EXPOSED STRUCTURE PAINTED
B	CARPET – FIELD	1	RUBBER – 4"	B	GYP BD PTD	1	2x2 ACCOUSTICAL CEILING PANEL
C	CARPET ACCENT #1	2	NOT USED	C	PAINTED PLYWOOD	2	GYP BD W/ SKIM COAT PTD
D	CARPET ACCENT #2	3	CERAMIC TILE #1	D	VINYL WALL COVERING	3	GYP BD -- PAINTED
E	VINYL COMP TILE	4	CER PAVER TILE #2	E	ACST FABRIC	4	CEMENT PLASTER
F	SEALED CONC			F	GLASS AND METAL FRAME		
G	CER FLOOR TILE #1			G	CEMENT PLASTER		
H	CER PAVER TILE #2						
I	"H" BORDER W/ RECESSED ENTRY MAT						

REFER TO SPEC ATTACHMENT FOR COLORS AND PAINT SCHEDULES.
* PLASTIC LAMINATE TO BE BY ACCESS FLOOR MANUFACTURER

NO.	DATE	PREPARED BY	CHECKED BY	REV. APPROVED	ACOE/CORPS APPROVED	DESCRIPTION OF REVISION
1	6/17/94	M.MENENDEZ	R.WOLFF	JL/TLS	EKM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN: D. ANTONUTTI
CHECKED: J. MENENDEZ
SUPV. ENGR.: JMP
ENGR/PROJ. MGR.: JL/TLS
ACOE/CORPS: EKM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

SCHEDULES

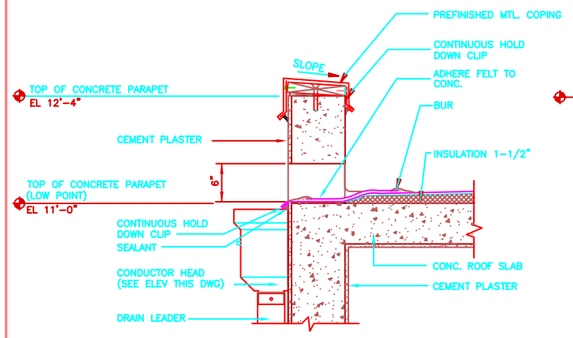
CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363508
SAN JUAN, P.R. 00936-3508

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

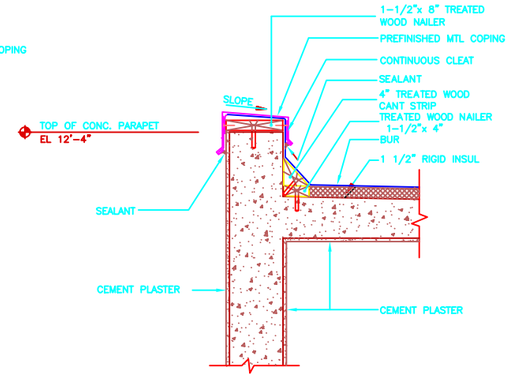
SEPO

SIZE	DWG. NO.	CLIN.	REV.
449404– 5	A10	G0	1

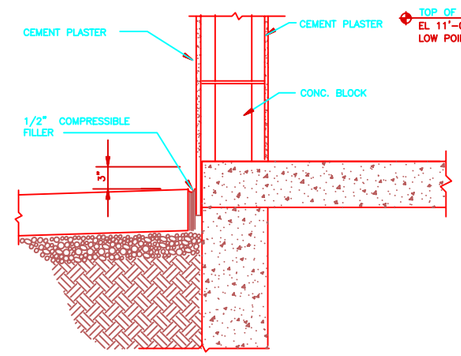
FDSP0004 09/07/94 08:11 S:E=3/2E=1" W0S09A109



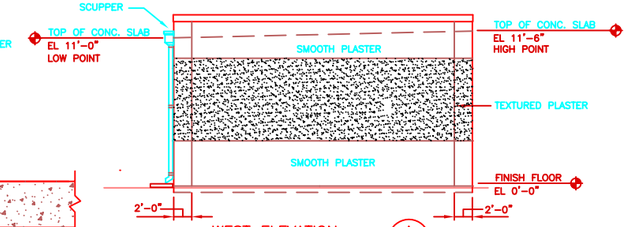
SCUPPER
DETAIL 1
SCALE: 1 1/2"=1'-0"



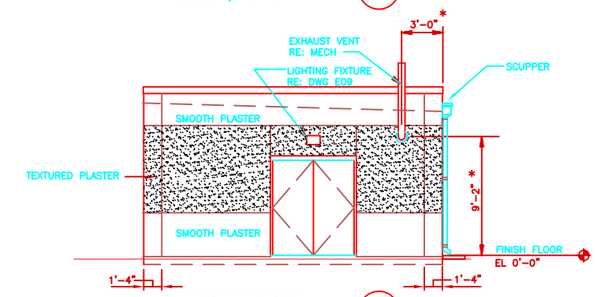
DETAIL 2
SCALE: 1 1/2"=1'-0"



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

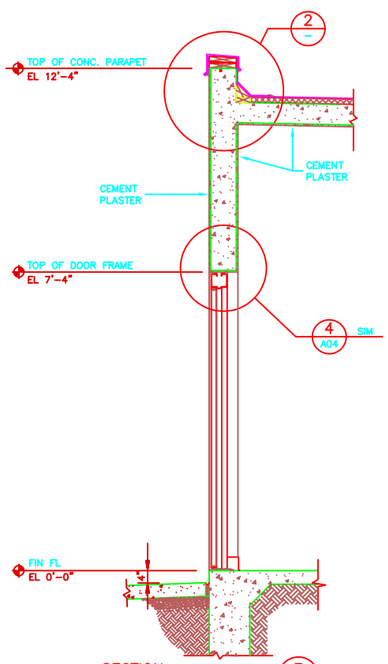


WEST ELEVATION A
SCALE: 1/4"=1'-0"

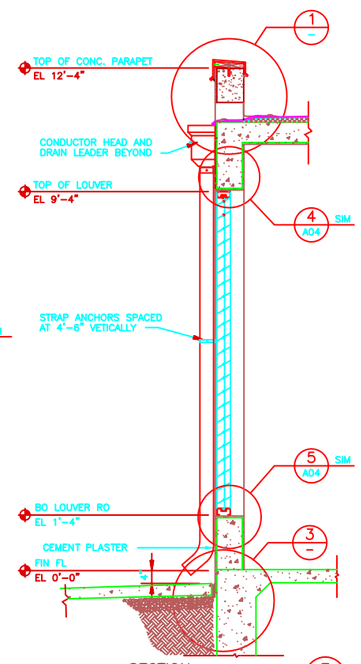


EAST ELEVATION B
SCALE: 1/4"=1'-0"

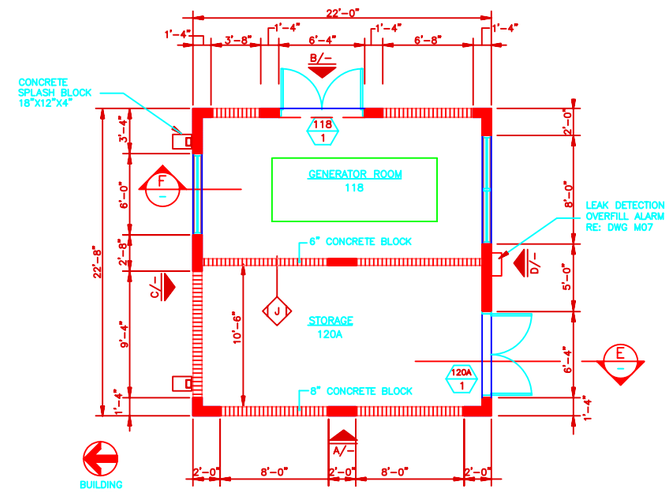
* NOTE: COORDINATE DIMENSIONS WITH GENERATOR MANUFACTURER'S INSTALLATION DRAWINGS.



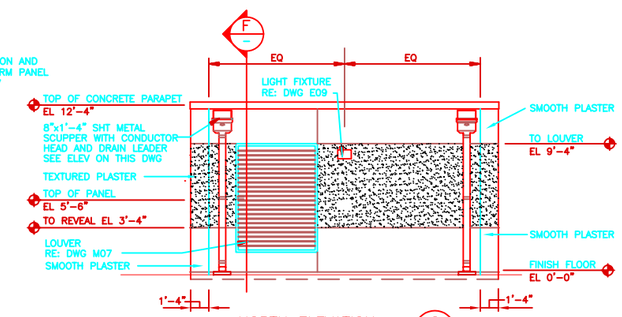
SECTION E
SCALE: 3/4"=1'-0"



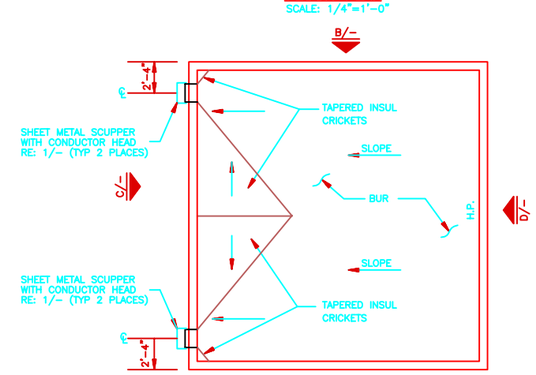
SECTION F
SCALE: 3/4"=1'-0"



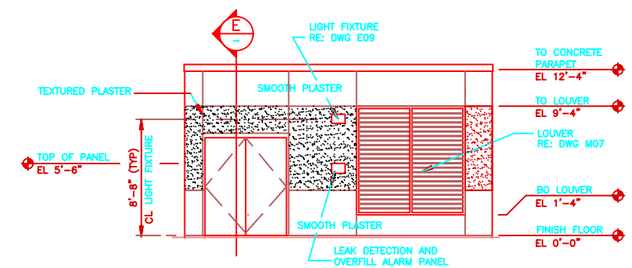
FLOOR PLAN
SCALE: 1/4"=1'-0"



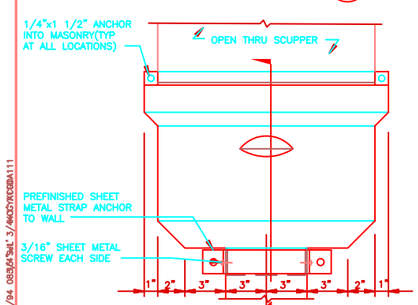
NORTH ELEVATION C
SCALE: 1/4"=1'-0"



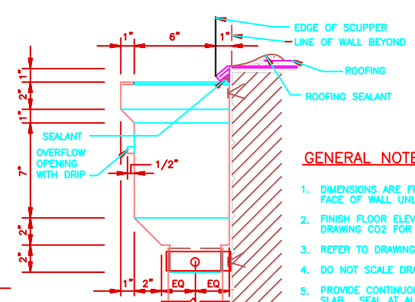
ROOF PLAN
SCALE: 1/4"=1'-0"



SOUTH ELEVATION D
SCALE: 1/4"=1'-0"



TYP ELEVATION OF CONDUCTOR HEAD
SCALE: 3" = 1'-0"



SECTION
SCALE: 3" = 1'-0"

GENERAL NOTES

1. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE OF WALL UNLESS NOTED OTHERWISE.
2. FINISH FLOOR ELEVATION = 0'-0". REFER TO DRAWING C02 FOR ACTUAL ELEVATIONS.
3. REFER TO DRAWING C02 FOR SIDEWALK LOCATIONS.
4. DO NOT SCALE DRAWINGS.
5. PROVIDE CONTINUOUS VAPOR RETARDER FLOOR SLAB. SEAL AT ALL EDGES AND PENETRATIONS.
6. REFER TO DRAWING C04 EQUIPMENT PAD PLAN FOR BUILDING ORIENTATION.

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

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

0 6" 1' 2'
SCALE: 1 1/2"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVED	ACTR/CORR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	JMENENDEZ	R.WOLFF	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363028
SAN JUAN, P.R. 00936-3028

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

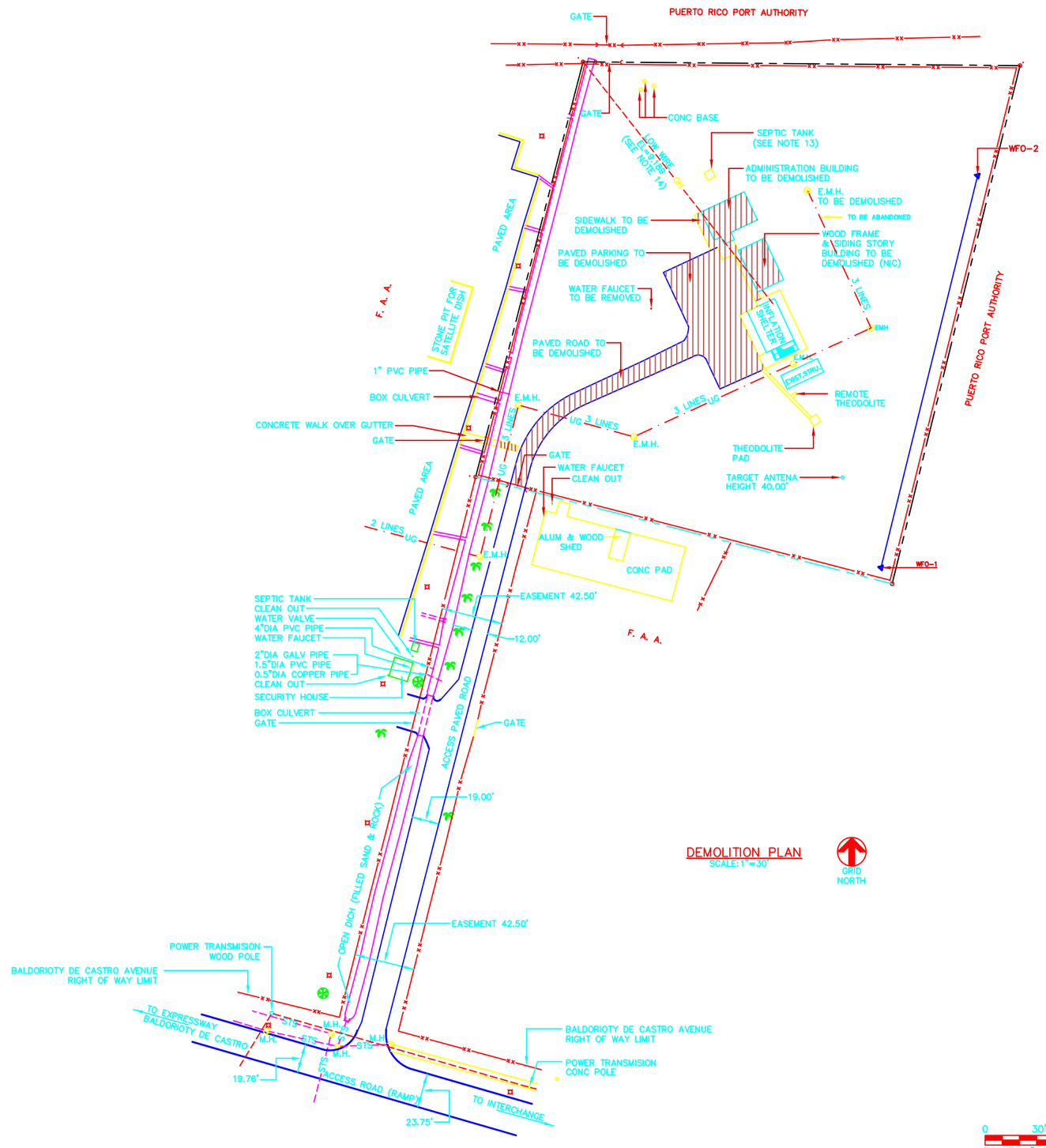
SEPO
SPECIAL ENGINEERING PROGRAM OFFICE

DRAWN: D. ANTONUTTI
CHECKED: J. MENENDEZ
SUP'V. ENGR.: JWP
ENGR/PROJ. MGR.: JL/TLS
ACCTR/CORR: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)
WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
DDG/STORAGE BUILDING
PLAN, ELEVS & DETAILS

SIZE	DWG. NO.	CLIN.	REV.
449404-	5	A11	G0	1

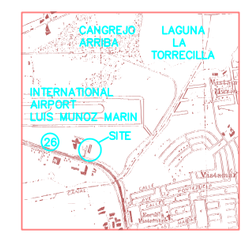
FDSP0004 09/07/94 08:36 Tel: 3/4WSD/RCBBA111



DEMOLITION PLAN
SCALE: 1"=30'

GENERAL NOTES

1. FOR DRAWING INDEX AND ABBREVIATIONS SEE DWG I01. FOR LEGEND SEE DWG C02.
2. PLANE COORDINATES ARE BASED ON THE LAMBERT CONIC PROJECTION FOR PUERTO RICO AND THE U.S. VIRGIN ISLANDS, NORTH ZONE (NAD 83)
3. HORIZONTAL AND VERTICAL CONTROL MONUMENTS; WFO-1 AND WFO-2 WERE ESTABLISHED BY G.P.S. SYSTEM.
4. ELEVATIONS ARE IN FEET AND TENTHS AND REFERRED TO MEAN SEA LEVEL, DEPARTURE FROM WFO-1 AND WFO-2.
5. ALL AZIMUTHS ARE GRID: RECKONED CLOCKWISE FROM SOUTH.
6. EXISTING UTILITIES, PROPERTY LINE AND TOPOGRAPHIC SURVEY INFORMATION ARE BASED ON JUNE 1, 1992 TO POGRAPHIC SURVEY BY RENAN LOPEZ DE AZUA & ASSOCIATES.
7. CONTRACTOR PARKING AND LAYDOWN AREAS SHALL BE LIMITED TO THE SPACE WITHIN THE PROPERTY LINE SHOWN IN THE DRAWINGS.
8. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING FENCES OR OTHER METHODS AS DIRECTED BY THE CITY THROUGHOUT THE CONSTRUCTION OPERATION.
9. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES WITH THE DRAWINGS TO THE CONTRACT ADMINISTRATOR FROM RESOLUTION.
10. ANY DAMAGES CAUSED TO EITHER PUBLIC OR PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR.
11. DURING CONSTRUCTION IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT CONSTRUCTION SITE IS FREE OF UNSIGHTLY ACCUMULATIONS OF RUBBISH AND SCRAP MATERIALS, AND THAT CONSTRUCTION MATERIALS, TRAILERS AND THE LIKE ARE KEPT IN A NEAT AND ORDERLY MANNER.
12. WATER SERVICE LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PUERTO RICO AQUEDUCTS AND SEWERS AUTHORITY (PRASA).
13. EXISTING SEPTIC TANK SHALL BE REMOVED ACCORDING TO THE CLOSURE PLAN SUBMITTED AND APPROVED BY THE ENVIRONMENTAL QUALITY BOARD (EQB).
14. EXISTING OVERHEAD POWER AND TELEPHONE LINE SHALL BE REMOVED.



LOCATION MAP

0 30' 60' 90'
SCALE: 1"=30'

NO.	DATE	PREPARED BY	CHECKED BY	PM APPROVED	ACDR/CODR APPROVED	DESCRIPTION OF REVISION
1	06/15/94	C.A.	L.S.	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. 0001

P.R. LICENCE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363035
SAN JUAN, P.R. 00936-3035

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

SEPO

DRAWN: D. ANTONIUTTI
CHECKED: L. HERNANDEZ
SUPV. ENGR: ARO
ENGR/PROJ. MGR: JL/TLS
ACDR/CODR: EHM/RAR

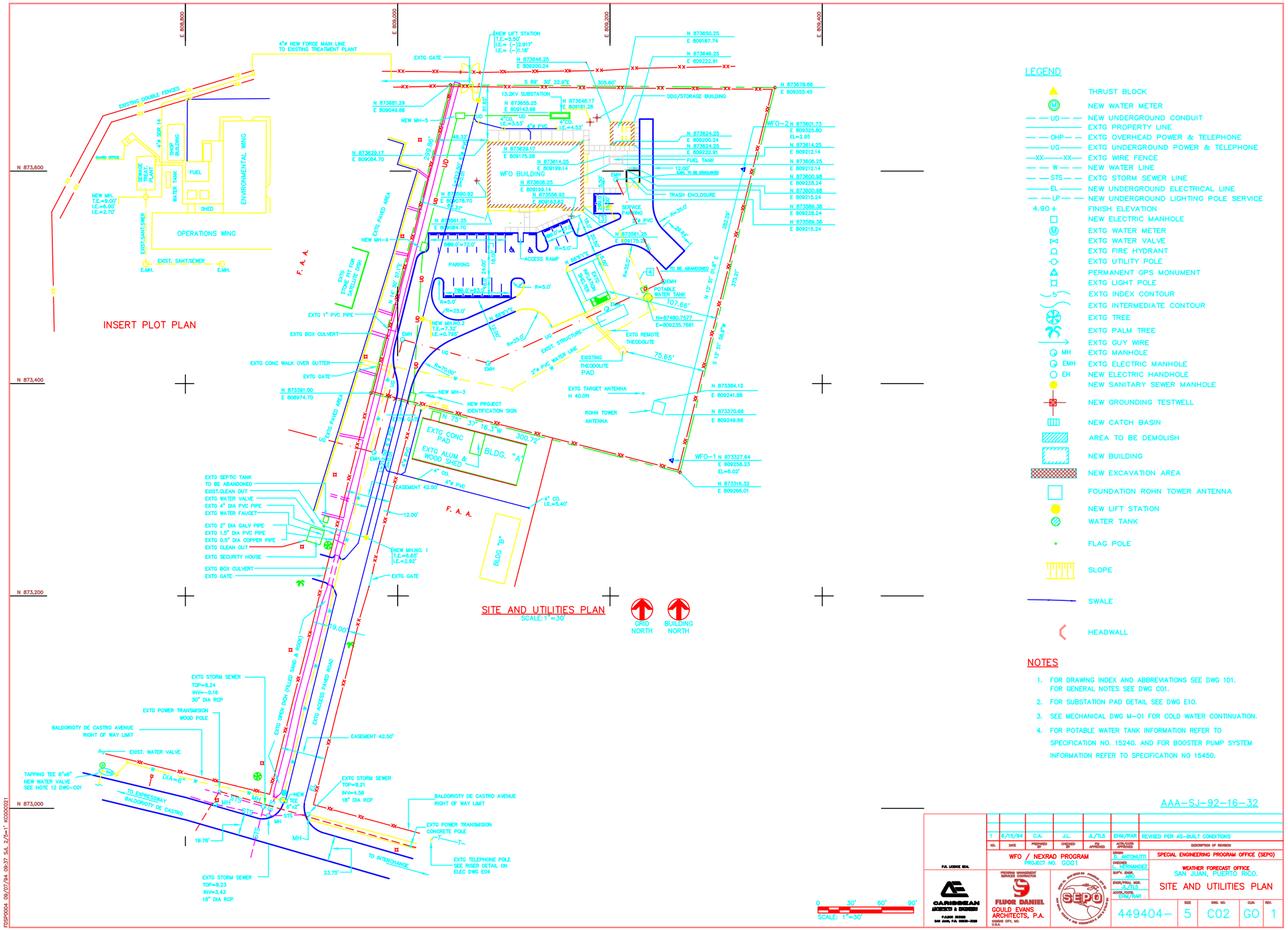
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO.

DEMOLITION PLAN

SIZE	DWG. NO.	CLIN.	REV.
449404- 5	C01	GO	1

09/07/94 08:47 SJL 1/3=1' KCGOC011
FDSP0004



LEGEND

- THRUST BLOCK
- NEW WATER METER
- NEW UNDERGROUND CONDUIT
- EXTG PROPERTY LINE
- EXTG OVERHEAD POWER & TELEPHONE
- EXTG UNDERGROUND POWER & TELEPHONE
- EXTG WIRE FENCE
- NEW WATER LINE
- EXTG STORM SEWER LINE
- NEW UNDERGROUND ELECTRICAL LINE
- NEW UNDERGROUND LIGHTING POLE SERVICE
- 4.90+ FINISH ELEVATION
- NEW ELECTRIC MANHOLE
- EXTG WATER METER
- EXTG WATER VALVE
- EXTG FIRE HYDRANT
- EXTG UTILITY POLE
- PERMANENT GPS MONUMENT
- EXTG LIGHT POLE
- EXTG INDEX CONTOUR
- EXTG INTERMEDIATE CONTOUR
- EXTG TREE
- EXTG PALM TREE
- EXTG GUY WIRE
- MH EXTG MANHOLE
- EMH EXTG ELECTRIC MANHOLE
- EH NEW ELECTRIC HANDHOLE
- NEW SANITARY SEWER MANHOLE
- NEW GROUNDING TESTWELL
- NEW CATCH BASIN
- AREA TO BE DEMOLISH
- NEW BUILDING
- NEW EXCAVATION AREA
- FOUNDATION ROHN TOWER ANTENNA
- NEW LIFT STATION
- WATER TANK
- FLAG POLE
- SLOPE
- SWALE
- HEADWALL

NOTES

1. FOR DRAWING INDEX AND ABBREVIATIONS SEE DWG 101. FOR GENERAL NOTES SEE DWG C01.
2. FOR SUBSTATION PAD DETAIL SEE DWG E10.
3. SEE MECHANICAL DWG M-01 FOR COLD WATER CONTINUATION.
4. FOR POTABLE WATER TANK INFORMATION REFER TO SPECIFICATION NO. 15240. AND FOR BOOSTER PUMP SYSTEM INFORMATION REFER TO SPECIFICATION NO 15450.

AAA-SJ-92-16-32

NO.	DATE	PREPARED BY	CHECKED BY	PE APPROVED	ACTR/CORR APPROVED	DESCRIPTION OF REVISION
1	6/15/94	C.A.	J.L.	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DSGN. D. ANTONUTTI
CHECKED L. HERNANDEZ
SUP'V. ENGR. AFO
ENGR/PROJ. MGR. JL/TLS
ACTR/CORR EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO.

SITE AND UTILITIES PLAN

P.E. LICENSE SEAL

CARBONELL ARCHITECTS & ENGINEERS
P.O.BOX 362008
SAN JUAN, P.R. 00936-2008

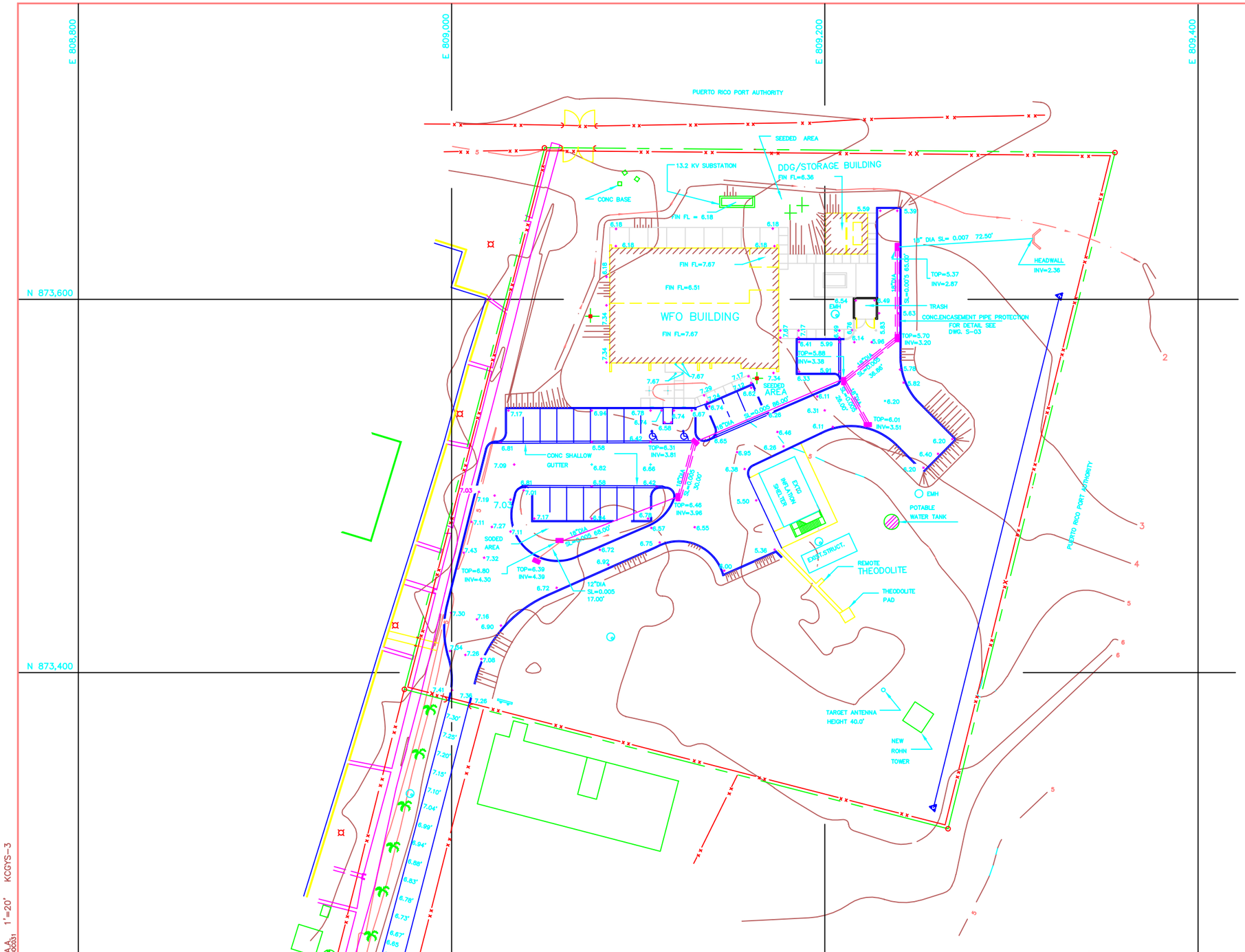
PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

SEPO

449404-	SIZE 5	DWG. NO. C02	CLIN. G0	REV. 1

SCALE: 1"=30'

FDSP0004 09/07/94 09:37 SJL 2/5=1' KC02C021



GRADING AND SEWER PLAN

SCALE: 1"=20'

NOTES

1. FOR DRAWING INDEX AND ABBREVIATIONS SEE DWG 101.
2. FOR GENERAL NOTES SEE DWG C02.
3. FOR LEGEND SEE DWG C02.
4. THE STORM SEWER LINE SHALL BE PVC-SDR 35.

NO.	DATE	PREPARED BY	CHECKED BY	PM APPROVED	ACDR/CODR APPROVED	DESCRIPTION OF REVISION
1	06/17/94	C.A.	L.S.	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENCE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O. BOX 363008
SAN JUAN, P.R. 00936-3008

WFO / NEXRAD PROGRAM
PROJECT NO. 0001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

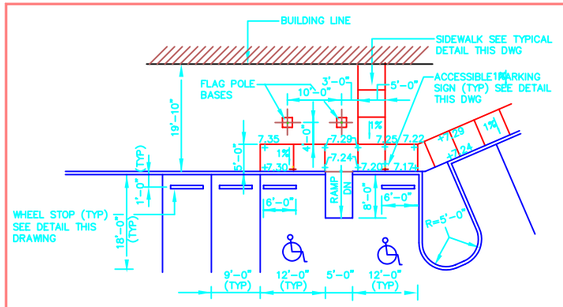
DRAWN D. ANTONUTTI
CHECKED L. HERNANDEZ
SUPV. ENGR. ARO
ENGR/PROJ. MGR. JL/TLS
ACDR/CODR EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
GRADING STORM & SANITARY SEWER PLAN

449404-	SIZE 5	DWG. NO. C03	CLIN. GO	REV. 1

01/11/93 D.A.A.
09/07/94 10:06 Sc. 1"=1' KCGYS-3
1"=20' KCGYS-3

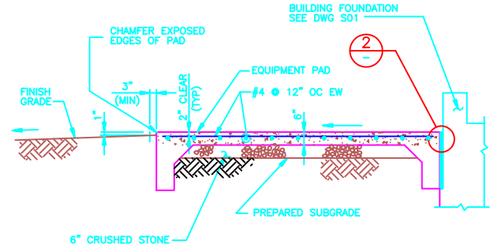


GRID NORTH BUILDING NORTH

ACCESSIBLE PARKING DETAIL

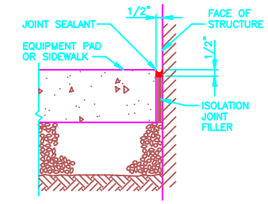
SCALE: NONE

(SEE DWG C02 FOR LOCATION)



SECTION 1

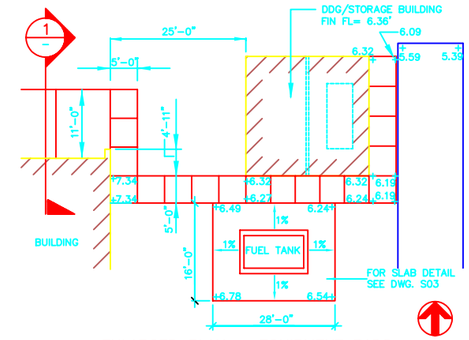
SCALE: NONE



ISOLATION JOINT

DETAIL 2

SCALE: NONE

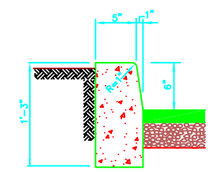


GRID NORTH BUILDING NORTH

ENLARGED PLAN – EQUIPMENT PADS

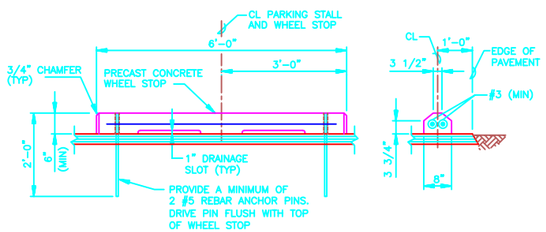
SCALE: NONE

(SEE DWG C02 FOR LOCATION)



DETAIL OF CONC CURB

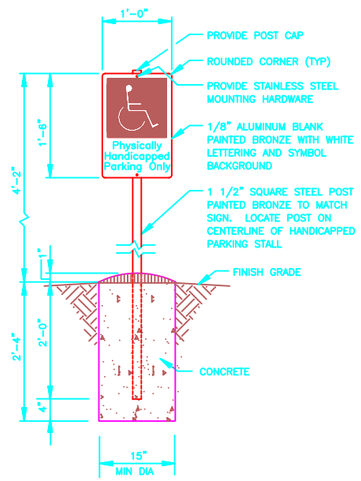
SCALE: NONE



SIDE VIEW END VIEW

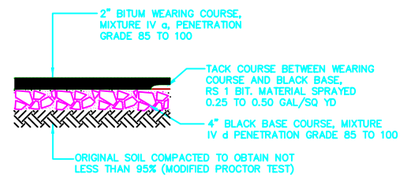
TYPICAL WHEEL STOP

SCALE: NONE



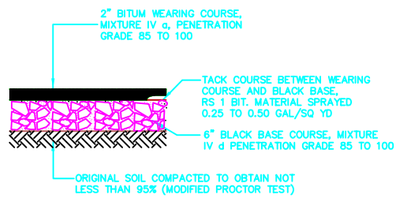
ACCESSIBLE PARKING SIGN

SCALE: NONE



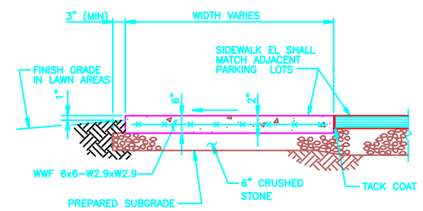
SECTION FOR LIGHT DUTY ASPHALT PAVEMENT FOR PARKINGS

SCALE: NONE



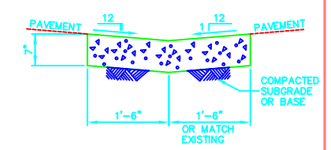
SECTION FOR HEAVY DUTY ASPHALT PAVEMENT FOR ROADS

SCALE: NONE

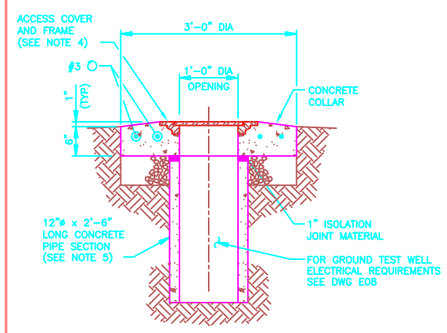


TYPICAL SIDEWALK SECTION

SCALE: NONE



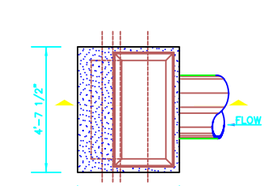
CONC SHALLOW GUTTER DETAIL



GROUND TEST WELL DETAIL

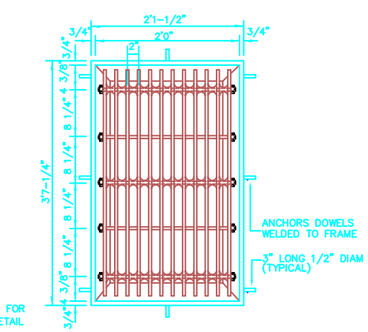
SCALE: NONE

(SEE DWG C02 FOR LOCATIONS)



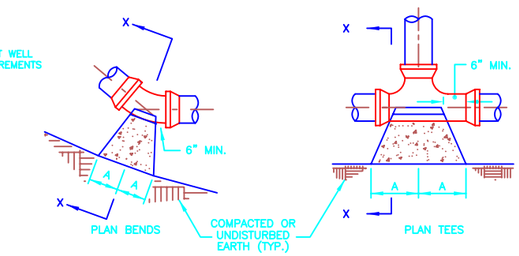
SINGLE INLET PLAN

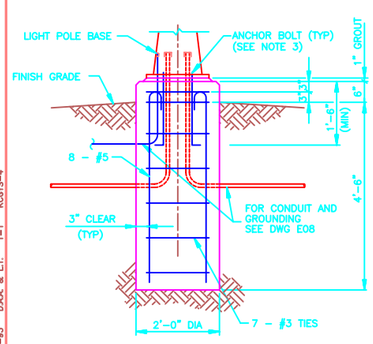
SCALE 1/2"=1'-0"



PLAN OF GRATING

SCALE 1/2"=1'-0"

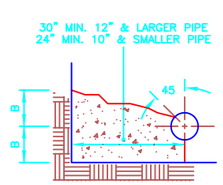




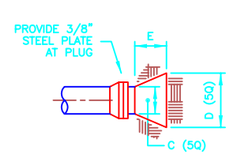
TYPICAL LIGHT POLE FOUNDATION

SCALE: NONE

(SEE DWG E04 FOR LIGHT POLE LOCATIONS)



SECTION X–X BENDS & TEES

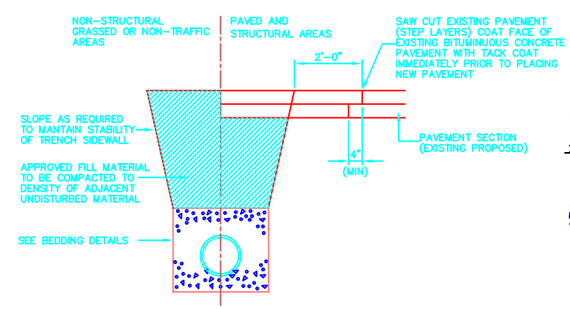


PLAN & ELEVATION PLUGS

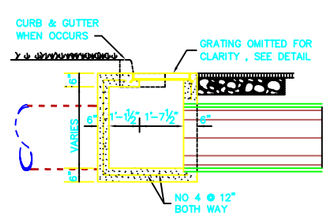
SIZE	90° ELBOW		45° ELBOW		22 1/2° ELB		TEES		PLUGS		
	A	B	A	B	A	B	A	B	C	D	E
2"	3"	6"	3"	3"	3"	3"	3"	4"	6"	6"	18"
6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"	18"

NOTE: BLOCKSIZE BASED UPON 350 PSI TEST PRESSURE AND 2000 PSF PASSIVE LATERAL EARTH PRESSURE.

THRUST BLOCKS

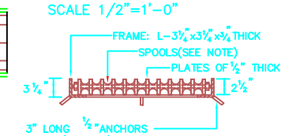


TYPICAL TRENCH DETAIL



SECTION

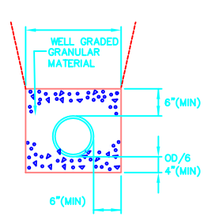
SCALE 1/2"=1'-0"



SECTION OF GRATING

SCALE 1/2"=1'-0"

SPOOLS:
STANDARD CAST IRON SPOOLS



TYPICAL BEDDING DETAILS

NOTES

1. FOR DRAWING INDEX AND ABBREVIATIONS SEE DWG I01 FOR GENERAL NOTES SEE DWG C01. FOR LEGEND SEE DWG C02.
2. FOR EQUIPMENT ARRANGEMENT SEE DWG H01.
3. ANCHOR BOLTS SHALL BE DESIGNED AND FURNISHED BY THE LIGHT POLE MANUFACTURER. ANCHOR BOLTS PROVIDED SHALL BE GALVANIZED.
4. GROUND TEST WELL FRAME AND COVER SHALL BE CASTINGS FABRICATED FROM GREY IRON CONFORMING TO ASTM A48. FRAME AND COVER SHALL BE SUITABLE FOR LIGHT TRAFFIC, CONCRETE SLAB APPLICATIONS. COVER SHALL BE NON-ROCKING AND SHALL BE LETTERED "ELECTRIC".
5. CONCRETE PIPE SHALL CONFORM TO ASTM C76, CLASS III, WALL B.

AAA-SJ-92-16-32

NO.	DATE	PREPARED BY	CHECKED BY	EIC APPROVED	ACEN/CORP APPROVED	DESCRIPTION OF REVISION
1	6/1/94	C.A.	J.L.	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.E. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.A.NO# 3635SB
SAN JUAN, P.R. 00936-3635

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

SEPO

DRAWN: D. A. & L.T.
CHECKED: L. HERNANDEZ
SUPV. ENGR.: ARO
ENGR/PROJ. MGR.: JL/TLS
ACCEPL/CORP. EHM/RAR

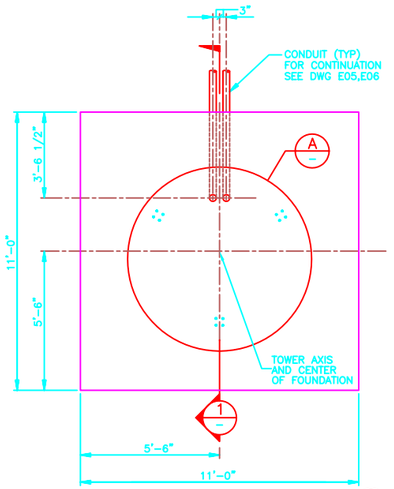
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO.

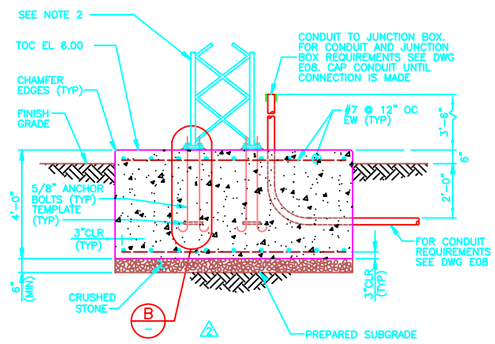
SECTIONS AND DETAILS
SHEET 1 OF 3

449404–	SIZE 5	DWG. NO. C04	CLIN. GO	REV. 1

FDSP0004 02-23-93 DAA. & L.T. 1=1 KODYS-4



PLAN
ROHN TOWER FOUNDATION
SCALE: 1/2"=1'-0"
(SEE DWG C02 FOR LOCATION)



SECTION
SCALE: NONE
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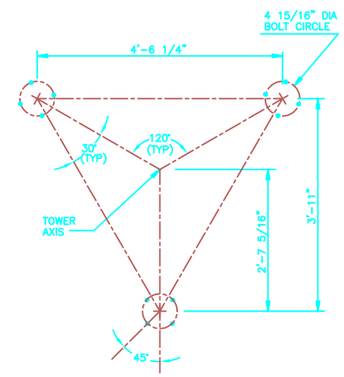
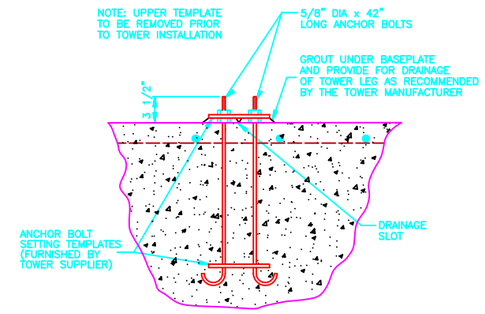
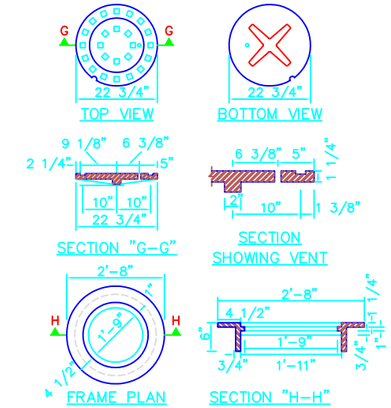


DETAIL
SCALE: NONE
A



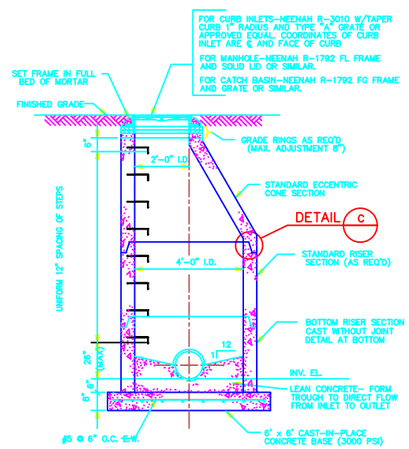
DETAIL
SCALE: NONE
B



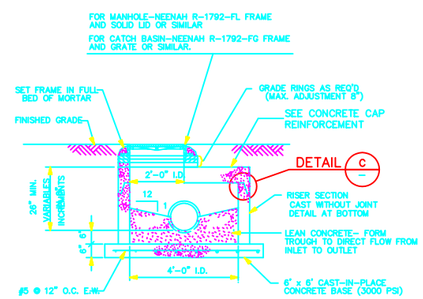
COVERS MANHOLE DETAILS
NOT TO SCALE

TABLE OF DIMENSIONS					
INSIDE DIA OF PIPE	A	B	C	D	* S
12"	2'-0"	10"	1'-1"	2'-1"	2'-6"
15"	2'-2"	11"	1'-1"	1'-11"	2'-8"
18"	2'-2"	11"	1'-4"	2'-5"	3'-0"
21"	2'-6"	1'-1"	1'-3"	2'-6"	3'-4"
24"	2'-10"	1'-3"	1'-5"	2'-10"	3'-8"
30"	3'-4"	1'-6"	1'-8"	3'-4"	4'-0"
36"	4'-0"	1'-10"	1'-10"	3'-10"	5'-0"
42"	4'-8"	2'-1"	2'-1"	4'-5"	5'-6"
48"	5'-4"	2'-5"	2'-4"	5'-0"	6'-0"
54"	6'-0"	2'-9"	2'-6"	5'-6"	6'-6"
60"	6'-6"	3'-0"	2'-9"	6'-0"	7'-6"

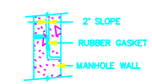
* THE "S" DIMENSION IS GIVEN FOR MULTIPLE PIPE INSTALLATIONS. FOR SINGLE PIPE INSTALLATIONS "S" = 0.



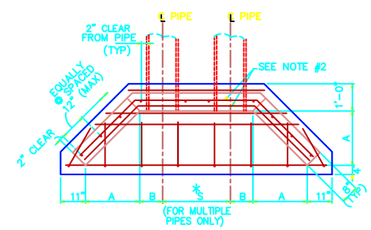
PRECAST REINFORCED CONCRETE
MANHOLE/CATCH BASIN
SCALE: NONE



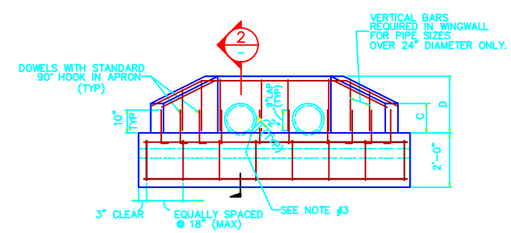
PRECAST REINFORCED CONCRETE
SHALLOW CATCH BASIN/MANHOLE
SCALE: NONE



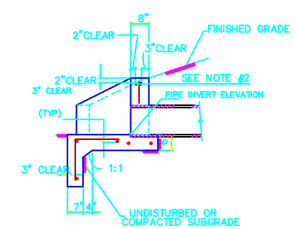
DETAIL
SCALE: NONE
C



PLAN

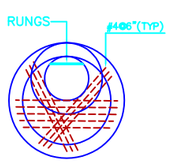


ELEVATION

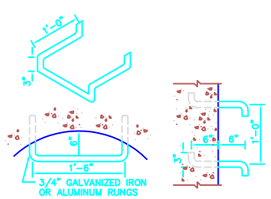


SECTION
SCALE: NONE
2

CAST-IN-PLACE CONCRETE HEADWALL DETAIL
(SINGLE OR MULTIPLE PIPES)
N.T.S.

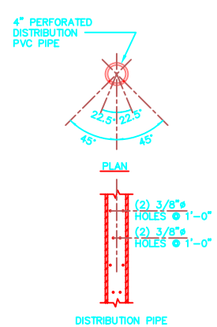


CONCRETE CAP REINFORCEMENT
NOT TO SCALE



RUNG DETAILS
NOT TO SCALE

MANHOLE DETAILS
NOT TO SCALE



HOLES PATTERN

NOTES:

1. THE CONTRACTOR SHALL FOLLOW THE STANDARD FOUNDATION SPECIFICATIONS AND NOTES OF ROHN.
2. THE CONTRACTOR SHALL INSTALL (1) 20' 6N TOWER SECTION, (1) 20' 5N SECTION, AND (1) 10' 4NB TOP SECTION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ALL TOWER SECTIONS SHALL BE GOVERNMENT FURNISHED MATERIAL.

NOTES:

(UNLESS NOTED OTHERWISE)

1. CONCRETE SHALL HAVE NOT LESS THAN 3000 PSI 28-DAY COMPRESSIVE STRENGTH.
2. ALL REINFORCEMENT SHALL BE ASTM A615, GR40, SIZE #4 (1/2" DIAMETER) DEFORMED BILLET-STEEL BARS, EXCEPT TOP TWO (2) BARS IN HEADWALL SHALL BE SIZE #5 FOR PIPE SIZES 48" DIAMETER AND OVER.
3. FILL PIPE HAUNCH AREA WITH CONCRETE AS SHOWN WHEN POURING APRON.
4. SEE PLAN DRAWINGS FOR HEADWALL LOCATIONS.

NO.	DATE	PREPARED BY	CHECKED BY	PR APPROVED	ACOE/OCIS APPROVED	DESCRIPTION OF REVISION
1	6/17/94	C.A.	J.L.	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN: L.TORRES
CHECKED: L. HERNANDEZ
SUP'V. ENGR.: ARO
ENGR/PROJ. MGR.: JL/TLS
ACOE/OCIS: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)
WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO.
SECTIONS AND DETAILS
SHEET 2 OF 3

P.E. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363268
SAN JUAN, P.R. 00936-3268

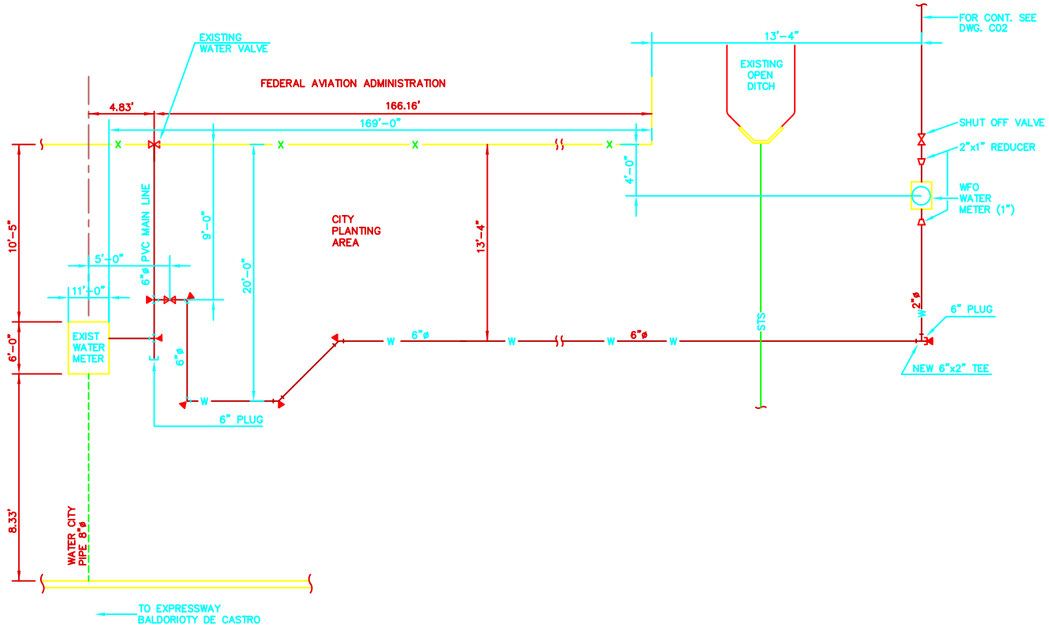
PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

SEPO

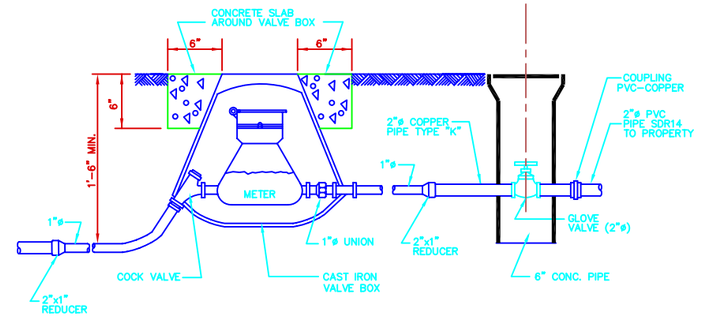
SIZE	DWG. NO.	CLIN.	REV.
5	C05	GO	1

449404-

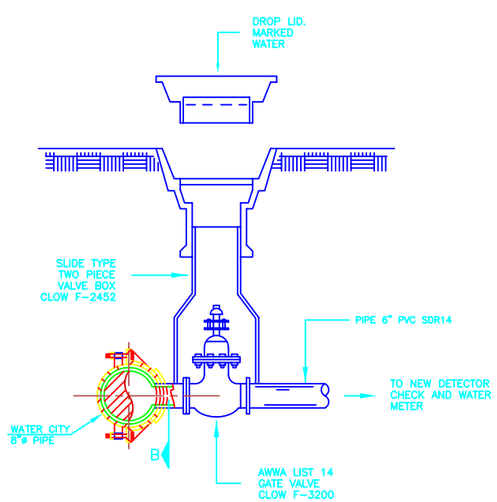
FDSP0004 01-11-93 D.A.A. 1=1 KCOTS-5



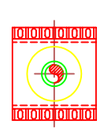
POTABLE WATER CONNECTION
BLOW-UP
NOT TO SCALE



1" WATER METER DETAIL
NOT TO SCALE



TAPPING SLEEVE AND VALVE



SECTION B-B

NOTES:

1. SLEEVE PIPE PRIOR TO TAP. HEAVY RETAINED GASKET AND EASILY INSTALLED GLAND PROVIDE A LOCKED IN POSITIVE SEAL.
2. CONTRACTOR SHALL VERIFY THE OUTSIDE DIAMETER OF EXISTING 8"ø PIPE PRIOR TO ORDER THE FABRICATED TAPPING SLEEVE.

AAA-SJ-92-16-32

NO.	DATE	PREPARED BY	CHECKED BY	PM APPROVED	ACDR/CORR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	C.A.	J.L.	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENCE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363008
SAN JUAN, P.R. 00936-3008

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

WFO / NEXRAD PROGRAM
PROJECT NO. C001

DRWN. L.TORRES
CHECKED L. HERNANDEZ
SUPV. ENGR. APO
ENGR/PROJ. MGR. JL/TLS
ACDTR./CORR. EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO.

SECTIONS AND DETAILS
SHEET 3 OF 3

449404-	SIZE 5	DWG. NO. C06	CLIN. GO	REV. 1

FDSP0004 09/07/94 10:44 SJL 12/1=1' KG000061

LEGEND ONE-LINE/SCHEMATIC DIAGRAMS

- 30A 3P — SAFETY SWITCH, 3 POLE, RATING AS NOTED
- 225 AT 3P — CIRCUIT BREAKER, 3 POLE, TRIP RATING AS NOTED
- TRANSFORMER
- CONTACT
- FUSE
- C — COIL
- CURRENT TRANSFORMER
- AUTOMATIC TRANSFER SWITCH
- G — GENERATOR
- M — UTILITY METERING
- GROUND
- 20 — INDUCTION MOTOR (NUMBER INDICATES HORSEPOWER)
- ELECTRICAL EQUIPMENT ENCLOSURE
- BUILDING LINE
- VENDOR SUPPLIED CONTROL PANEL

CIRCUIT DESIGNATION

PPA -4, 3#10, 1#12G, 3/4"C

- CONDUIT SIZE
- WIRE SIZE
- NUMBER OF WIRES
- CIRCUIT NUMBER
- PANEL DESIGNATION

PANEL DESIGNATION

PPA

- A = 480/277 VOLT
- B = 208/120 VOLT
- C = 208/120 VOLT UPS
- PANEL
- L = LIGHTING
- P = POWER

LEGEND PLAN DRAWINGS

- FLUORESCENT LIGHTING FIXTURE
- FLUORESCENT LIGHTING FIXTURE EQUIPPED WITH BATTERY BACKUP
- FLUORESCENT STRIP FIXTURE
- EXIT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- RECESSED/SURFACE MOUNTED LIGHT FIXTURE
- PHOTOCELL
- PARKING LOT LIGHTING FIXTURE
- $ — SINGLE POLE WALL SWITCH
- $3 — 3 WAY WALL SWITCH
- $4 — 4 WAY WALL SWITCH
- $H — HAND-OFF-AUTO SWITCH
- $D — DIMMER SWITCH, WATTAGE AS INDICATED
- UNSWITCH PHASE CONDUCTORS; SWITCH PHASE CONDUCTORS; GND; NEUTRAL — CONDUIT CONCEALED IN WALLS, ABOVE CEILINGS, OR UNDER ACCESS FLOOR
- CONDUIT EMBEDDED IN CONCRETE OR BELOW GRADE
- FLEXIBLE METAL CONDUIT
- 3/4" FLEXIBLE METAL CONDUIT (UNO)
- GROUND TEST WELL
- GROUND ROD
- #250 KCMIL BARE CU GND WIRE (UNO)
- CONDUIT STUBBED OUT 3" PAST WALL UNDER ACCESS FLOOR AND TERMINATED WITH INSULATED BUSHING. BOTTOM OF CONDUIT SHALL BE 3" ABOVE SLAB.
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- CONDUIT CAPPED
- DUPLEX GROUNDING RECEPTACLE
- DUPLEX GROUNDING RECEPTACLE, ABOVE COUNTER OR BACKSPLASH
- GFCI — DUPLEX GROUNDING RECEPTACLE, WITH GFCI
- GFCI — DUPLEX GROUNDING RECEPTACLE WITH GFCI, ABOVE COUNTER OR BACKSPLASH
- RECEPTACLE, 3ø, 4W, W/GND, CONFIGURATION AS NOTED
- 3 — MOTOR (NUMBER INDICATES HORSEPOWER)
- 4" SQUARE (UNO) JUNCTION BOX WITH BLANK COVER. BRACKET INDICATES WALL MOUNT.
- COMMUNICATION OUTLET BOX AND COVER WITH 1/4" CENTERED HOLE, 12" AFF (UNO), 1" CONDUIT (UNO)
- SAME AS ABOVE EXCEPT FOR LAN SYSTEM
- 4-PLEX RECEPTACLE AND FLOOR BOX
- DUPLEX RECEPTACLE AND FLOOR BOX
- 30A, 3P SAFETY SWITCH, NON-FUSED, 600V RATED (UNO)
- STARTER
- COMBINATION STARTER (SIZE AS INDICATED)
- PANELBOARD SURFACE MOUNTED
- PANELBOARD FLUSH MOUNTED
- 1 — NOTE CALLOUT
- SD — SMOKE DETECTOR (DUCT MOUNTED)
- CONNECTION POINT
- GROUNDING PLATE
- FURNITURE CONNECTOR
- CEILING MOUNTED OCCUPANCY SENSOR
- WALL MOUNTED OCCUPANCY SENSOR
- WALL SWITCH OCCUPANCY SENSOR
- P — POWER PACK FOR OCCUPANCY SENSOR

FIXTURE SCHEDULE

TYPE	TYPE NO	DESCRIPTION
	F1	2'x4', 2-LAMP STATIC TROFFER, PRISMATIC ACRYLIC LENS
	F1A	SAME AS F1, EXCEPT 3-LAMP
	F1B	1'x4', 2-LAMP PARABOLIC TROFFER, 9 CELLS
	F2	4'-0", 2-LAMP STANDARD INDUSTRIAL FLUORESCENT FIXTURE WITH WIRE GUARD
	F3	1-LAMP, RECESSED, COMPACT FLUORESCENT DOWNLIGHT
	F3A	SAME AS F3, EXCEPT DIMMABLE
	F4	4'-0", 1-LAMP STRIP, STANDARD CHANNEL FLUORESCENT FIXTURE
	F4A	SAME AS F4, EXCEPT 2'-0" LONG
	F5	8'-0", 1-LAMP, OUTDOOR FLUORESCENT SIGN FIXTURE
	F6	NOT USED
	F6A	NOT USED
	F6B	4'-0", 2-LAMP, NARROW BODY, WRAPAROUND FLUORESCENT FIXTURE
	F7	2'-0", 1-LAMP, UNDERCABINET, LOW PROFILE, FLUORESCENT FIXTURE
	F8	OUTDOOR, BUILDING MOUNTED, VANDAL RESISTANT FIXTURE, 70W HIGH PRESSURE SODIUM LAMP
	F9	2'-0", 1-LAMP, WALL MOUNT FLUORESCENT FIXTURE
	F10	OUTDOOR PARKING LOT LIGHT FIXTURE, 150W HIGH PRESSURE SODIUM LAMP, 20'-0" SQUARE STRAIGHT STEEL POLE
	F11	NOT USED
	F12	2'x4', 3-LAMP PARABOLIC TROFFER, 18 CELLS
	F12A	SAME AS F12, EXCEPT 1'x4', 2 LAMP, 6 CELLS
	F13	4'-0", 2-LAMP, STAGGERED STRIP, FLUORESCENT FIXTURE
	F13A	SAME AS F13, EXCEPT 2'-0"
EXIT	F14	EXIT SIGN (SINGLE FACE)
	F14A	EXIT SIGN (DOUBLE FACE)
	F15	NOT USED
	F16	OUTDOOR, CEILING SRURFACE MTD. VANDAL RESISTANT FIXTURES, 70 W HIGH PRESSURE SODIUM LAMP

REFERENCE SPECIFICATION SECTION 16000 FOR COMPLETE DESCRIPTION

NO.	DATE	PREPARED BY	CHECKED BY	PGE APPROVED	ACTR/CCDR APPROVED	DESCRIPTION OF REVISION
1	8/17/94	F.GARCIA	B.GUZMAN	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363009
SAN JUAN, P.R. 00936-3009

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

SEPO

DRAWN: J.P.DIAZ
CHECKED: B. GUZMAN
SUPV. ENGR: M. LEDO
ENGR/PROJ. MGR: JL/TLS
ACCTR./CCDR: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

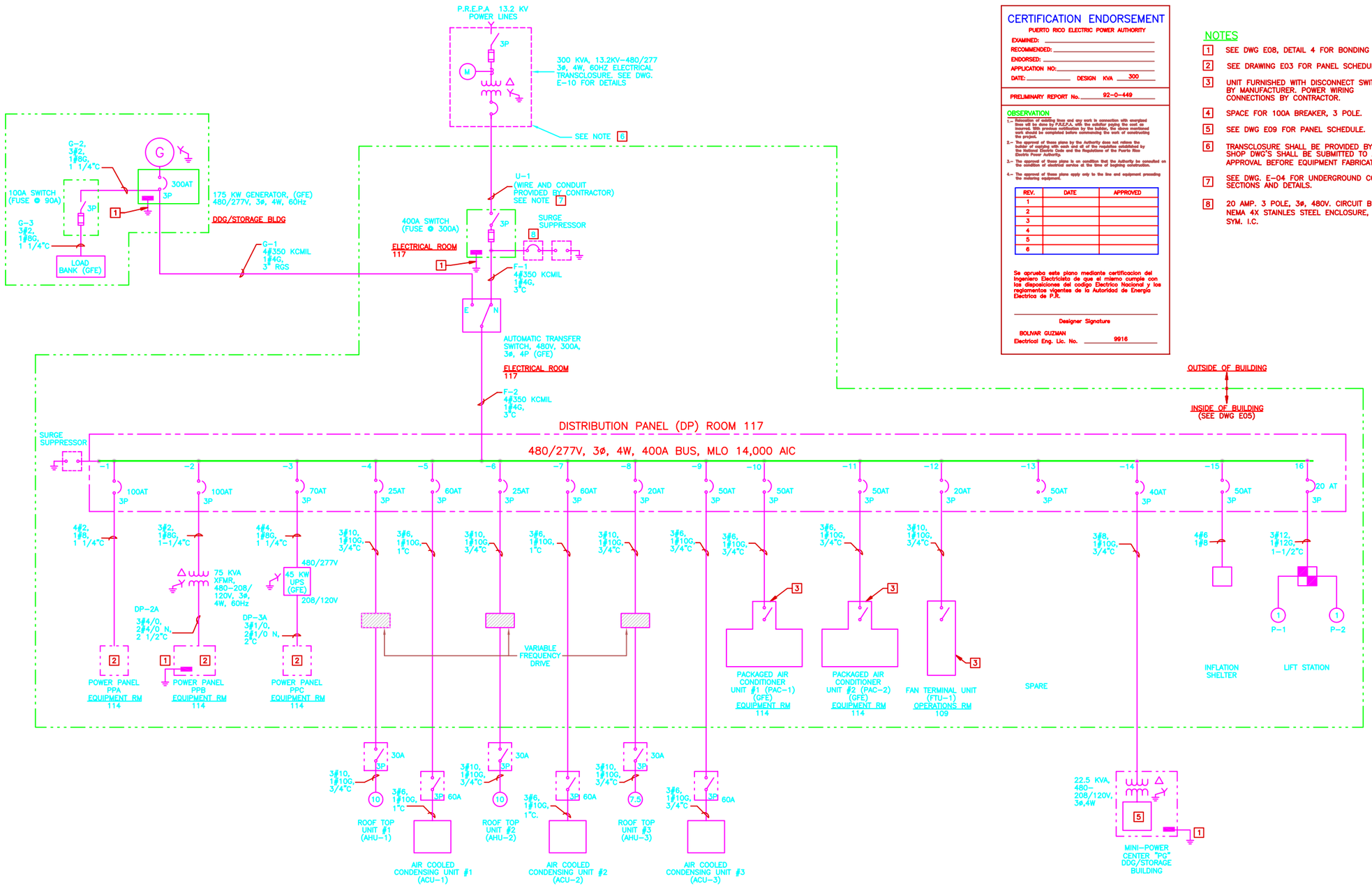
WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

LEGEND AND FIXTURE SCHEDULE

SIZE	DWG. NO.	CLIN.	REV.
5	E01	G0	1

449404-

FDSP0004 08/07/94 10:47 SJL 12/1=1' KG00E011



CERTIFICATION ENDORSEMENT

PUERTO RICO ELECTRIC POWER AUTHORITY

EXAMINED: _____

RECOMMENDED: _____

ENDORSED: _____

APPLICATION NO: _____

DATE: _____ DESIGN KVA 300

PRELIMINARY REPORT No. 92-0-449

OBSERVATION

1.- Relocation of existing lines and any work in connection with energized lines will be done by P.R.E.P.A. with the solicitor paying the cost as incurred. With previous notification by the builder, the above mentioned work should be completed before commencing the work of constructing the project.

2.- The approval of these plans by the Authority does not relieve the builder of complying with each and all of the requisites established by the National Electric Code and the Regulations of the Puerto Rico Electric Power Authority.

3.- The approval of these plans is on condition that the Authority be consulted on the condition of electrical service at the time of begining construction.

4.- The approval of these plans apply only to the line and equipment preceding the metering equipment.

REV.	DATE	APPROVED
1		
2		
3		
4		
5		
6		

Se aprueba este plano mediante certificacion del Ingeniero Electricista de que el mismo cumple con las disposiciones del codigo Electrico Nacional y los reglamentos vigentes de la Autoridad de Energia Electrica de P.R.

Designer Signature

BOLIVAR GUZMAN

Electrical Eng. Lic. No. 9916

NOTES

1. SEE DWG E08, DETAIL 4 FOR BONDING DETAIL.
2. SEE DRAWING E03 FOR PANEL SCHEDULES.
3. UNIT FURNISHED WITH DISCONNECT SWITCH BY MANUFACTURER. POWER WIRING CONNECTIONS BY CONTRACTOR.
4. SPACE FOR 100A BREAKER, 3 POLE.
5. SEE DWG E09 FOR PANEL SCHEDULE.
6. TRANSCLOSURE SHALL BE PROVIDED BY CONTRACTOR. SHOP DWG'S SHALL BE SUBMITTED TO A/E FOR APPROVAL BEFORE EQUIPMENT FABRICATION
7. SEE DWG. E-04 FOR UNDERGROUND CONDUIT SECTIONS AND DETAILS.
8. 20 AMP. 3 POLE, 3ø, 480V. CIRCUIT BREAKER NEMA 4X STAINLES STEEL ENCLOSURE, 25,000 AMP. SYM. I.C.

NO.	DATE	PREPARED BY	CHECKED BY	PR APPROVED	ACTR/CORR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	F.GARCIA	B.GUZMAN	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363069
SAN JUAN, P.R. 00936-3069

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

SEPO

DRWN: R.BURGOS
CHECKED: B.GUZMAN
SUP'V. ENGR.: M.LEDO
ENGR/PROJ. MGR.: JL/TLS
ACTR/CORR APPROVED: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

ONE-LINE DIAGRAM

449404-	SIZE 5	DWG. NO. E02	CLIN. G0	REV. 1

FDSP0004 09/07/94 10:49 SJL 12/1=1' KCO0E021

VOLTS 480/277V PANEL "PPA" MAINS 225A MLO
PHASE 3ø LOCATION EQUIPMENT RM 114 FEEDER DP-1
WIRE 4W , 14,000 AIC

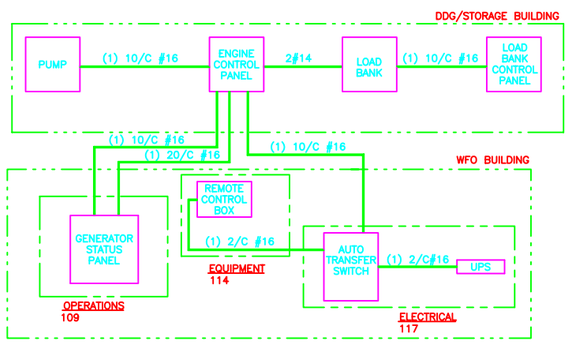
DESCRIPTION	BKR	CKT	POLE			POLE	CKT	BKR	DESCRIPTION
FAN TERMINAL UNIT (FTU-2) SERV VEST	20	1	1			2			
			3			4	2	20	CONDENSER #1, (C-1)
			5			6			
BOOSTER PUMPS PACKAGE (P-1,2)	20	3	9			10	4	20	CONDENSER #2, (C-2)
			11			12			
SPARE	20	5	13			14	6	20	EWH, STORAGE
			15			16	8	20	SPARE
			17			18	10	20	SPARE
FAN TERMINAL UNIT (FTU-5) MULTI-PURPOSE RM	20	7	19			20	12	20	LTG, EXTERIOR
			21			22	14	20	LTG, INTERIOR NORTH
			23			24	16	20	LTG, INTERIOR CENTER
SPARE	20	9	25			26	18	20	LTG, INTERIOR SOUTH
SPARE	30	11	27			28	20	20	LTG, DDG/STORAGE BUILDING
SPARE	20	13	29			30	22	20	SPARE
SPARE	20	15	31			32	24	20	SPARE
SPARE	20	17	33			34	26	20	SPARE
SPARE	20	19	35			36	28	20	SPARE
SPACE	–	–	37			38	–	–	SPACE
SPACE	–	–	39			40	–	–	SPACE
SPACE	–	–	41			42	–	–	SPACE

VOLTS 208/120V PANEL "PPB" MAINS 225A MCB
PHASE 3ø LOCATION EQUIPMENT RM 114 FEEDER DP-2A
WIRE 4W , 10,000 AIC

DESCRIPTION	BKR	CKT	POLE			POLE	CKT	BKR	DESCRIPTION
RCPTS, EQUIP, OPER, OUTSIDE	20	1	1			2	2	20	RCPTS, CUBICLE, OPER RM
RCPTS, OPER, OUTSIDE	20	3	3			4	4	20	RCPTS, CUBICLE, OPER RM
RCPTS, NWR, CORR, OPER	20	5	5			6	6	20	RCPTS, CUBICLE, OPER RM
RCPTS, MULTI-PURP, NWR, CORR	20	7	7			8	8	20	RCPTS, CUBICLE, OPER RM
MICROWAVE, READY RM	20	9	9			10	10	20	RCPTS, ELEC TECH, READY RM, EQUIP, AHU-2
APPLIANCE, READY RM	20	11	11			12	12	20	REFR, READY ROOM
RCPTS, COMM	20	13	13			14	14	20	RCPTS, EQUIP, ELEC RM
RCPTS, ELEC TECH, BENCH	20	15	15			16	16	20	RCPTS, ELEC TECH, CORR, OUTSIDE
RCPTS, ELEC TECH, BENCH	20	17	17			18	18	20	RCPTS, OFFICE, RCPTN
RCPTS, ELEC TECH	20	19	19			20	20	20	RCPTS, OFFICE, MIC, CORR
TRANSFER FAN (TF-2)	20	21	21			22	22	20	RCPTS, STOR, MEN, WOMEN, EWC
DOOR ENTRY PWR SUPPLY & DOORBELL	20	23	23			24	24	20	RCPTS, FILE/COPY, CORR, OUTSIDE
EF-1, MEN & WOMEN RM	20	25	25			26	26	20	SPARE
REMOTE CONTROL BOX	20	27	27			28	28	20	SPARE
RCPT, CUBICLE, ELEC TECH	20	29	29			30	30	20	FAN TERMINAL UNIT (FTU-3) FILE/COPY
RCPT, CUBICLE, ELEC TECH	20	31	31			32	32	20	FAN TERMINAL UNIT (FTU-4) RECEPTION
FUTURE WATER SOFTENER	20	33	33			34	34	20	FAN TERMINAL UNIT (FTU-6) OFFICE
RCPTS, CUBICLE, MIC, RCPTN	20	35	35			36	36	20	FAN TERMINAL UNIT (FTU-7)MIC
DOWNLIGHTS, MULTI-PURP	20	37	37			38	38	20	3P, 50AMP. FOR EXISTING
SPARE	20	39	39			40	40	20	INFLATION SHELTER
SPARE	20	41	41			42	42	20	

VOLTS 208/120V PANEL "PPC" MAINS 225A MCB
PHASE 3ø LOCATION EQUIPMENT RM 114 FEEDER DP-3A
WIRE 4W , 10,000 AIC

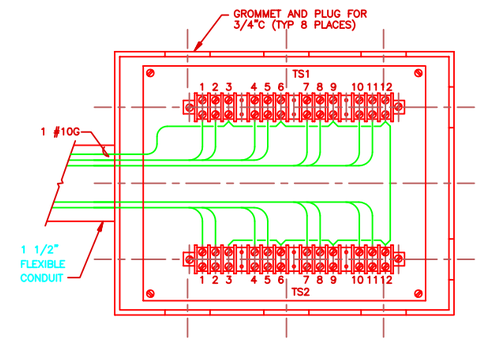
DESCRIPTION	BKR	CKT	POLE			POLE	CKT	BKR	DESCRIPTION
RCPTS, RCPTN, MIC, OFFICE	20	1	1			2			
PLUGMOLD COMM RM	20	3	3			4	2	20	FUTURE PUP
PLUGMOLD COMM RM	20	5	5			6			
RCPTS, COMM RM	20	7	7			8			
TERMINAL BOX #1	20	9	9			10	4	20	SPARE
TERMINAL BOX #1	20	11	11			12			
TERMINAL BOX #1 (AWIPS)	20	13	13			14	6	20	SPARE
TERMINAL BOX #1 (AWIPS)	20	15	15			16	8	20	SPARE
TERMINAL BOX #1 (AWIPS)	20	17	17			18	10	20	FUTURE PUP WKSTA
TERMINAL BOX #1 (AWIPS)	20	19	19			20	12	20	TERMINAL BOX #2
TERMINAL BOX #1	30	21	21			22	14	20	TERMINAL BOX #2
TERMINAL BOX #1	30	23	23			24	16	20	TERMINAL BOX #2 (AWIPS)
TERMINAL BOX #3 (AWIPS)	20	25	25			26	18	20	TERMINAL BOX #2 (AWIPS)
TERMINAL BOX #3 (AWIPS)	20	27	27			28	20	20	TERMINAL BOX #2 (AWIPS)
TERMINAL BOX #3 (AWIPS)	20	29	29			30	22	20	TERMINAL BOX #2 (AWIPS)
TERMINAL BOX #3 (AWIPS)	20	31	31			32	24	30	TERMINAL BOX #2
TERMINAL BOX #3	30	33	33			34	26	30	TERMINAL BOX #2
TERMINAL BOX #3	30	35	35			36			
TERMINAL BOX #3	45	37	37			38	28	20	SPARE
TERMINAL BOX #3	45	39	39			40			
SPARE	20	41	41			42	30	20	TEMP. CONTROL COMPONENTS



GENERATOR CONTROL DIAGRAM

EQUIPMENT	FROM	EQUIPMENT	TO
PAC (REMOTE CONTROL BOX)	TB	AUTOMATIC TRANSFER SWITCH	TB3
1	84	1	23
2	85	2	25
UPS	TB X2	AUTOMATIC TRANSFER SWITCH	TB3
1	6	1	20
2	8	2	22
TEMPERATURE CONTROL SYSTEM	TB	AUTOMATIC TRANSFER SWITCH	TB1
1		1	2
2		2	3

ATS INTERCONNECTION TABLE



NOTE

1 FOR ALL CONDUITS ENTERING AND LEAVING TERMINAL BOX, USE WATERTIGHT FITTINGS.

TERMINAL BOX

DETAIL 1 E05
SCALE: NONE

TERMINAL BOX #1

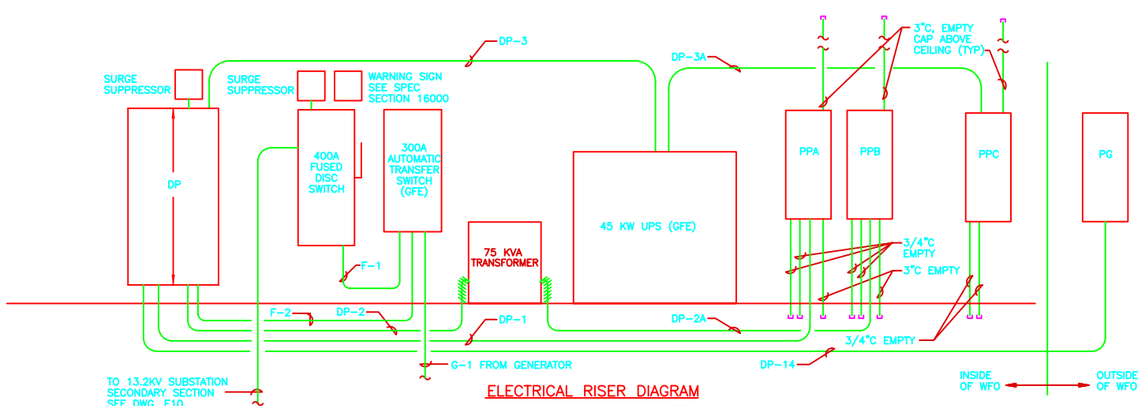
TERMINAL #	CIRCUIT #	WIRE SIZE
TS1-1,2,3	PPC-9,20A,1P	2 #10
TS1-4,5,6	PPC-11,20A,1P	2 #10
TS1-7,8,9	PPC-13,20A,1P	2 #10
TS1-10,11,12	PPC-15,20A,1P	2 #10
TS2-1,2,3	PPC-17,20A,1P	2 #10
TS2-4,5,6	PPC-19,20A,1P	2 #10
TS2-7,8,9	PPC-21,30A,1P	2 #8
TS2-10,11,12	PPC-23,30A,1P	2 #8

TERMINAL BOX #2

TERMINAL #	CIRCUIT #	WIRE SIZE
TS1-1,2,3	PPC-12,20A,1P	2 #10
TS1-4,5,6	PPC-14,20A,1P	2 #10
TS1-7,8,9	PPC-16,20A,1P	2 #10
TS1-10,11,12	PPC-18,20A,1P	2 #10
TS2-1,2,3	PPC-20,20A,1P	2 #10
TS2-4,5,6	PPC-22,20A,1P	2 #10
TS2-7,8,9	PPC-24,30A,1P	2 #8
TS2-10,11,12	PPC-26,30A,1P	2 #8

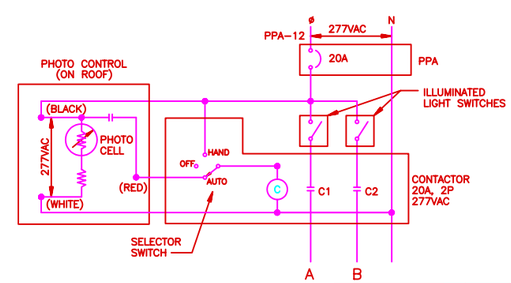
TERMINAL BOX #3

TERMINAL #	CIRCUIT #	WIRE SIZE
TS1-1,2,3	PPC-25,20A,1P	2 #10
TS1-4,5,6	PPC-27,20A,1P	2 #10
TS1-7,8,9	PPC-29,20A,1P	2 #10
TS1-10,11,12	PPC-31,20A,1P	2 #10
TS2-1,2,3	PPC-33,30A,1P	2 #8
TS2-4,5,6	PPC-35,30A,1P	2 #8
TS2-7,8,9	PPC-37,45A,1P	2 #6
TS2-10,11,12	PPC-39,45A,1P	2 #6



ELECTRICAL RISER DIAGRAM

DETAIL 2 E05
SCALE: NONE



A	PARKING LOT LIGHTS
B	WFO BUILDING SOFFIT AND SIGN LIGHTS, DDG/STOR BLDG EXTERIOR LIGHTS

EXTERIOR LIGHTING CONTROL DIAGRAM
SCALE: NONE

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVED	ACTR/ACOE APPROVED	DESCRIPTION OF REVISION
1	6/17/94	F.GARCIA	B.GUZMAN	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRWN R.BURGOS
CHECKED B.GUZMAN
SUP'V. ENGR. M.LEDO
ENGR/PROJ. MGR. JL/TLS
ACOE/ACTR EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)
WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
PANELBOARDS, SCHEMATICS AND CONTROL DIAGRAMS

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363009
SAN JUAN, P.R. 00936-3009

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

SEPO

SIZE	DWG. NO.	CLN.	REV.
449404-	5	E03	GO	1

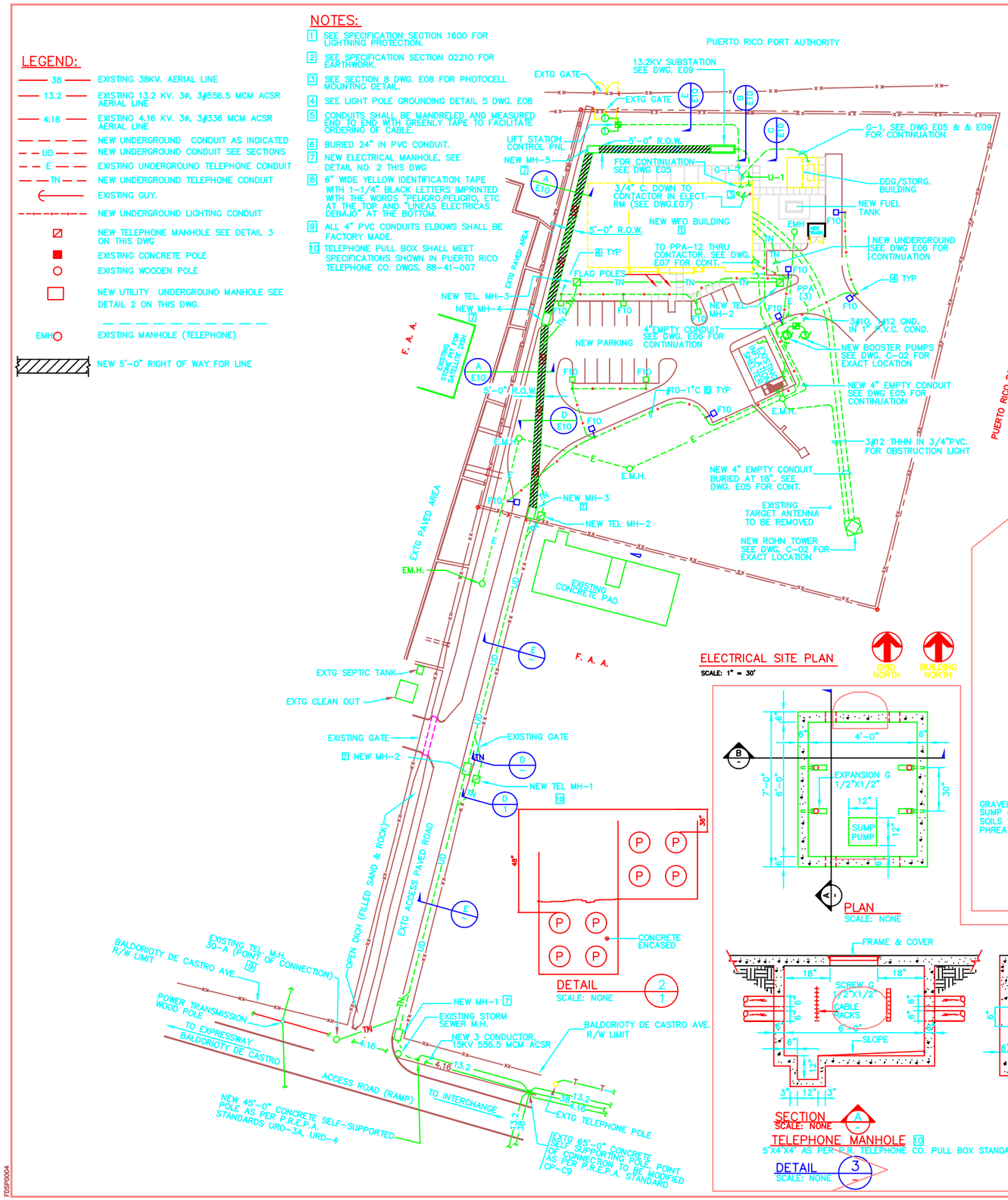
FDSP0004 09/07/94 10:51 SJL 12/1=1" KCOGE031

LEGEND:

- 38 — EXISTING 38KV. AERIAL LINE
- 13.2 — EXISTING 13.2 KV. 3ø, 3#556.5 MCM ACSR AERIAL LINE
- 4.16 — EXISTING 4.16 KV. 3ø, 3#336 MCM ACSR AERIAL LINE
- NEW UNDERGROUND CONDUIT AS INDICATED
- UD — NEW UNDERGROUND CONDUIT SEE SECTIONS
- E — EXISTING UNDERGROUND TELEPHONE CONDUIT
- TN — NEW UNDERGROUND TELEPHONE CONDUIT
- EXISTING GUY.
- NEW UNDERGROUND LIGHTING CONDUIT
- NEW TELEPHONE MANHOLE SEE DETAIL 3 ON THIS DWG
- EXISTING CONCRETE POLE
- EXISTING WOODEN POLE
- NEW UTILITY UNDERGROUND MANHOLE SEE DETAIL 2 ON THIS DWG.
- EMH — EXISTING MANHOLE (TELEPHONE)
- NEW 5'-0" RIGHT OF WAY FOR LINE

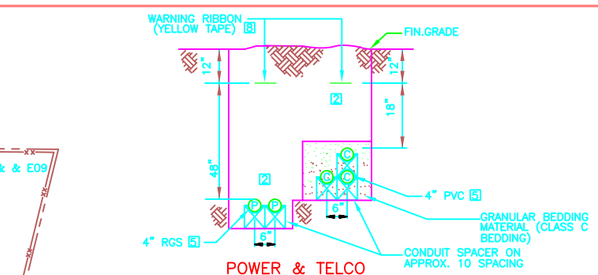
NOTES:

1. SEE SPECIFICATION SECTION 1600 FOR LIGHTNING PROTECTION.
2. SEE SPECIFICATION SECTION 02210 FOR EARTHWORK.
3. SEE SECTION 8 DWG. E08 FOR PHOTOCELL MOUNTING DETAIL.
4. SEE LIGHT POLE GROUNDING DETAIL 5 DWG. E08
5. CONDUITS SHALL BE MANDRELED AND MEASURED END TO END WITH GREENLY TAPE TO FACILITATE ORDERING OF CABLE.
6. BURIED 24" IN PVC CONDUIT.
7. NEW ELECTRICAL MANHOLE, SEE DETAIL NO. 2 THIS DWG
8. 6" WIDE YELLOW IDENTIFICATION TAPE WITH 1-1/4" BLACK LETTERS IMPRINTED WITH THE WORDS "PELIGRO,PELIGRO, ETC AT THE TOP AND "LINEAS ELECTRICAS DEBAJO" AT THE BOTTOM.
9. ALL 4" PVC CONDUITS ELBOWS SHALL BE FACTORY MADE.
10. TELEPHONE PULL BOX SHALL MEET SPECIFICATIONS SHOWN IN PUERTO RICO TELEPHONE CO. DWGS. 88-41-007

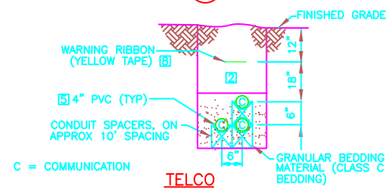


ELECTRICAL SITE PLAN
SCALE: 1" = 30'

GRID NORTH
BUILDING NORTH



POWER & TELCO CONDUIT TRENCH SECTION
SCALE: NONE

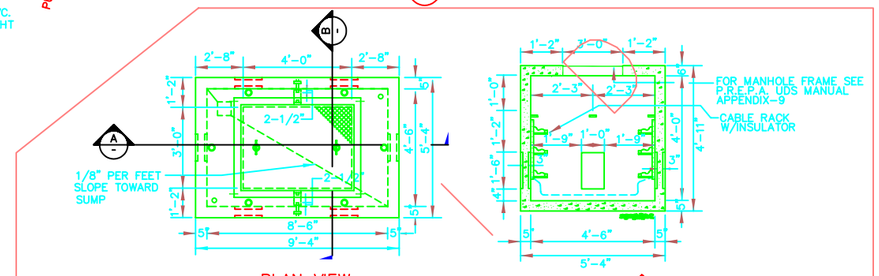


TELCO CONDUIT TRENCHING SECTION
SCALE: NONE

LOCATION MAP

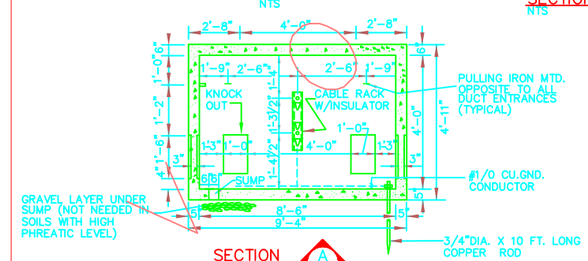
GENERAL NOTES:

1. FOR PREFABRICATED MANHOLE DETAILS REFER TO SUBMITTAL (POWER & TELEPHONE).



PLAN VIEW
NTS

SECTION
NTS



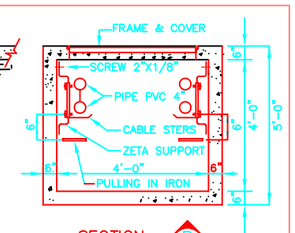
SECTION
SCALE: NONE

MANHOLE DETAIL
SCALE: NONE

PLAN
SCALE: NONE

DETAIL
SCALE: NONE

SECTION
SCALE: NONE



SECTION
SCALE: NONE

TELEPHONE MANHOLE
5'X4'X4' AS PER P.R. TELEPHONE CO. PULL BOX STANDARDS

DETAIL
SCALE: NONE

SCALE: 1"=30'

CERTIFICATION ENDORSEMENT

PUERTO RICO ELECTRIC POWER AUTHORITY

EXAMINED: _____
RECOMMENDED: _____
ENDORSED: _____
APPLICATION NO: _____
DATE: _____ DESIGN KVA 300

PRELIMINARY REPORT No. 92-0-449

OBSERVATION

1.- Relocation of existing lines and any work in connection with energized lines will be done by P.R.E.P.A. with the solicitor paying the cost as incurred. With previous notification by the builder, the above mentioned work should be completed before commencing the work of constructing the project.

2.- The approval of these plans by the Authority does not relieve the builder of complying with each and all of the requisites established by the National Electric Code and the Regulations of the Puerto Rico Electric Power Authority.

3.- The approval of these plans is on condition that the Authority be consulted on the condition of electrical service at the time of begining construction.

4.- The approval of these plans apply only to the line and equipment preceding the metering equipment.

REV.	DATE	APPROVED
1		
2		
3		
4		
5		
6		

Se aprueba este plano mediante certificacion del Ingeniero Electricista de que el mismo cumple con las disposiciones del codigo Electrico Nacional y los reglamentos vigentes de la Autoridad de Energia Electrica de P.R.

_____
Designer Signature

BOLIVAR GUZMAN
Electrical Eng. Lic. No. 9916

NO.	DATE	PREPARED BY	CHECKED BY	PEE APPROVED	ACTR/CCTR APPROVED	DESCRIPTION OF REVISION
1	5/17/94	F.GARCIA	B.GUZMAN	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRWN J.P.DIAZ
CHECKED B.GUZMAN
SUPV. ENGR. M.LEDO
ENGR/PROJ. MGR. JL/TLS
ACCTR/CCTR EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO.

ELECTRICAL SITE PLAN

P.R. LICENSE SEAL

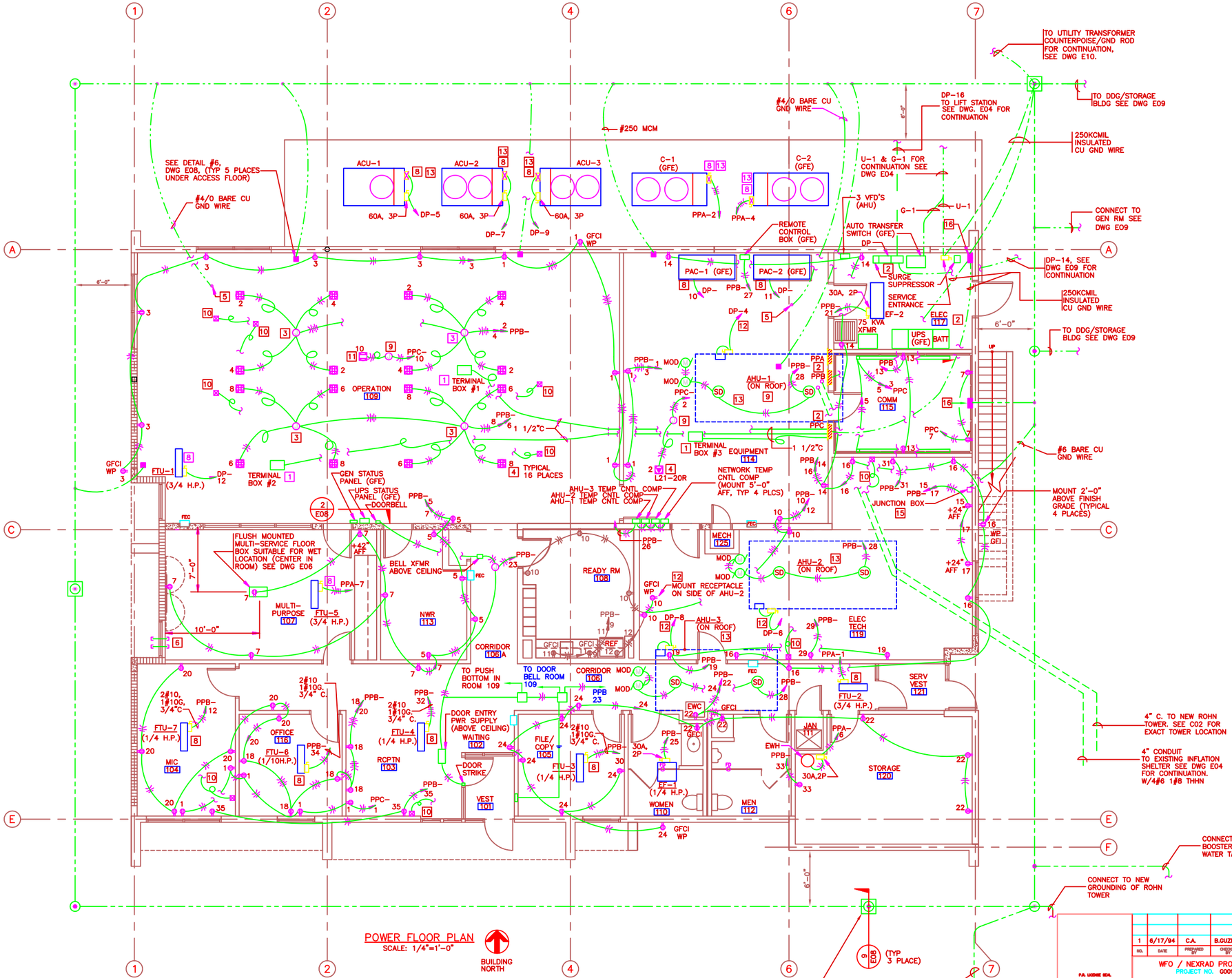
CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363005
SAN JUAN, P.R. 00936-3005

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

SEPO

SIZE	DWG. NO.	CLN.	REV.
449404-	5	E04	G0	1

FDSP0004



POWER FLOOR PLAN
SCALE: 1/4"=1'-0"

NOTES:

1. TERMINAL BOX, LOCATED BELOW ACCESS FLOOR. SEE DETAIL 1, ON DWG E03.
2. SEE ELECTRICAL RISER DIAGRAM, DWG E03 DETAIL 2. FOR WIRE AND CONDUIT ROUTING.
3. 10"x10"x6" JUNCTION BOX MOUNT ON UNISTRUT UNDER ACCESS FLOOR.
4. RECEPTACLE AND BOX WITH 10'-0" OF FLEXIBLE CONDUIT UNDER ACCESS FLOOR (NOT ATTACHED TO FLOOR) AND LEFT APPROXIMATELY IN POSITION SHOWN ON DRAWING.
5. CONTRACTOR SHALL BOND GROUND WIRE TO ACCESS FLOOR SUPPORT.
6. EACH 4"C SHALL BE FLUSH ON THE INTERIOR WALL WITH A BRUSHED ALUMINUM COVER PLATE. THE 4"C SHALL BE CAPPED ON THE EXTERIOR AND MADE WEATHERPROOF. THE EXTERIOR CAPS SHALL BE PERMANENTLY AFFIXED TO THE BUILDING EXTERIOR VIA A CORROSION RESISTANT CHAIN, 1'-0" ABOVE FINISHED GRADE.
7. CONNECTION TO GROUND PLATE SHALL BE MADE WITH A MECHANICAL CONNECTOR. TYPICAL INSTALLATION SIMILAR TO DETAIL 6 ON DWG E08.
8. UNIT FURNISHED WITH DISCONNECT SWITCH AND/OR MAGNETIC STARTER (IF REQUIRED) BY MANUFACTURER. POWER WIRING CONNECTIONS BY CONTRACTOR.
9. MOUNT JUNCTION BOX ON UNISTRUT TO FLOOR UNDER ACCESS FLOOR.
10. SEE FURNITURE CONNECTION, DETAIL 3, DWG E08.
11. RECEPTACLE AND BOX WITH 20'-0" OF FLEXIBLE CONDUIT UNDER ACCESS FLOOR (NOT ATTACHED TO FLOOR) AND LEFT APPROXIMATELY IN POSITION SHOWN ON DRAWING.
12. ROUTE CONDUITS THROUGH ROOF CURB, SEE DWG M03.
13. FOR EXACT LOCATION OF CONDENSING UNIT & AHU SEE HVAC DWG M03.
14. NOT USED
15. 6"x6"x4" DEEP RECESSED JUNCTION BOX WITH BLANK COVERPLATE. COIL 12" OF #6 BARE CU GND WIRE IN BOX. MOUNT 12" AFF.
16. CONNECTION TO GROUND BUS ASSEMBLY SHALL BE MADE WITH MECHANICAL CONNECTORS. TYPICAL INSTALLATION SIMILAR TO DETAIL 7 DWG. E08.

NO.	DATE	PREPARED BY	CHECKED BY	PE APPROVED	ACTN/FOOR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	C.A.	B.GUZMAN	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
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SAN JUAN, P.R. 00936-3508

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

SEPO

DRAWN: J.P.DIAZ
CHECKED: B.GUZMAN
SUP'V. ENGR: M. LEDO
ENGR/PROJ. MGR: JL/TLS
ACOTR/FOOR APPROVED: EHM/RAR

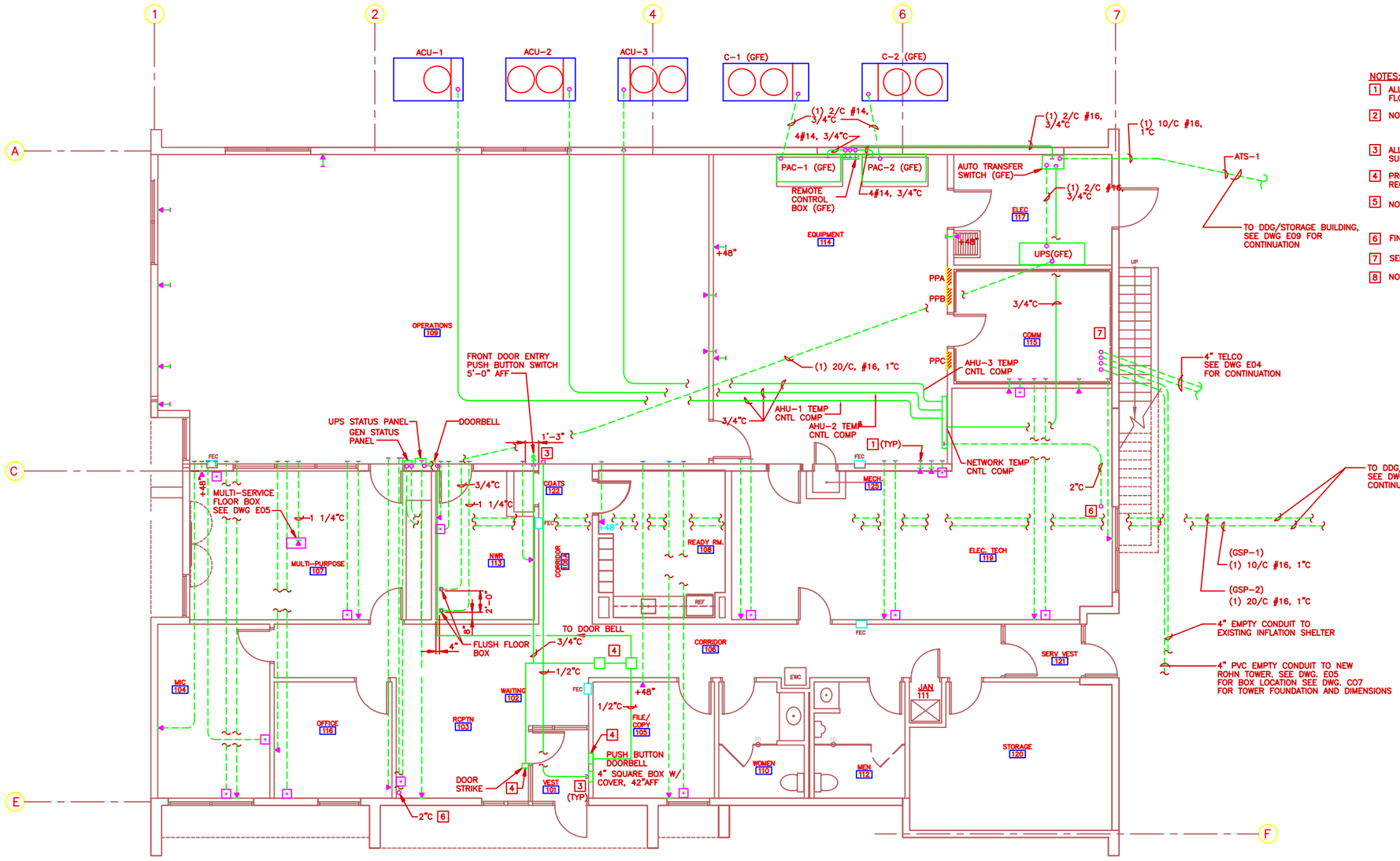
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

ELECTRICAL POWER PLAN

449404-	SIZE	DWG. NO.	CLIN.	REV.
	5	E05	G0	1

20226002 09/07/94 12:57 SJL 1/4=1' KCOOE051



NOTES:

1. ALL CONDUITS ENTERING UNDER ACCESS FLOOR SHALL AVOID FLOOR PEDESTALS. COORDINATE WITH FLOOR PLAN, DWG A02.
2. NOT USED
3. ALL DEVICE BOXES SHALL BE MOUNTED FLUSH WITH SURFACE OF WALL.
4. PROVIDE CONTROL CABLE PER MANUFACTURERS RECOMMENDATIONS.
5. NOT USED
6. FINISH CONDUIT WITH THREADED FLUSH CAP.
7. SEE DETAIL 10, DWG E08 FOR DETAIL OF CONDUIT STUB UP.
8. NOT USED

COMMUNICATIONS & CONTROL PLAN

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

BUILDING NORTH

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	FDI APPROVED	ACTR./CONTR. APPROVED	DESCRIPTION OF REVISION
1	6/17/94	C.A.	B.GUZMAN	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN: J.P.DIAZ
CHECKED: B.GUZMAN
SUP'V. ENGR.: M. LEDO
ENGR./PROJ. MGR.: JL/TLS
ACCTR./CONTR.: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
COMMUNICATIONS & CONTROLS PLAN

P.R. LICENSE SEAL

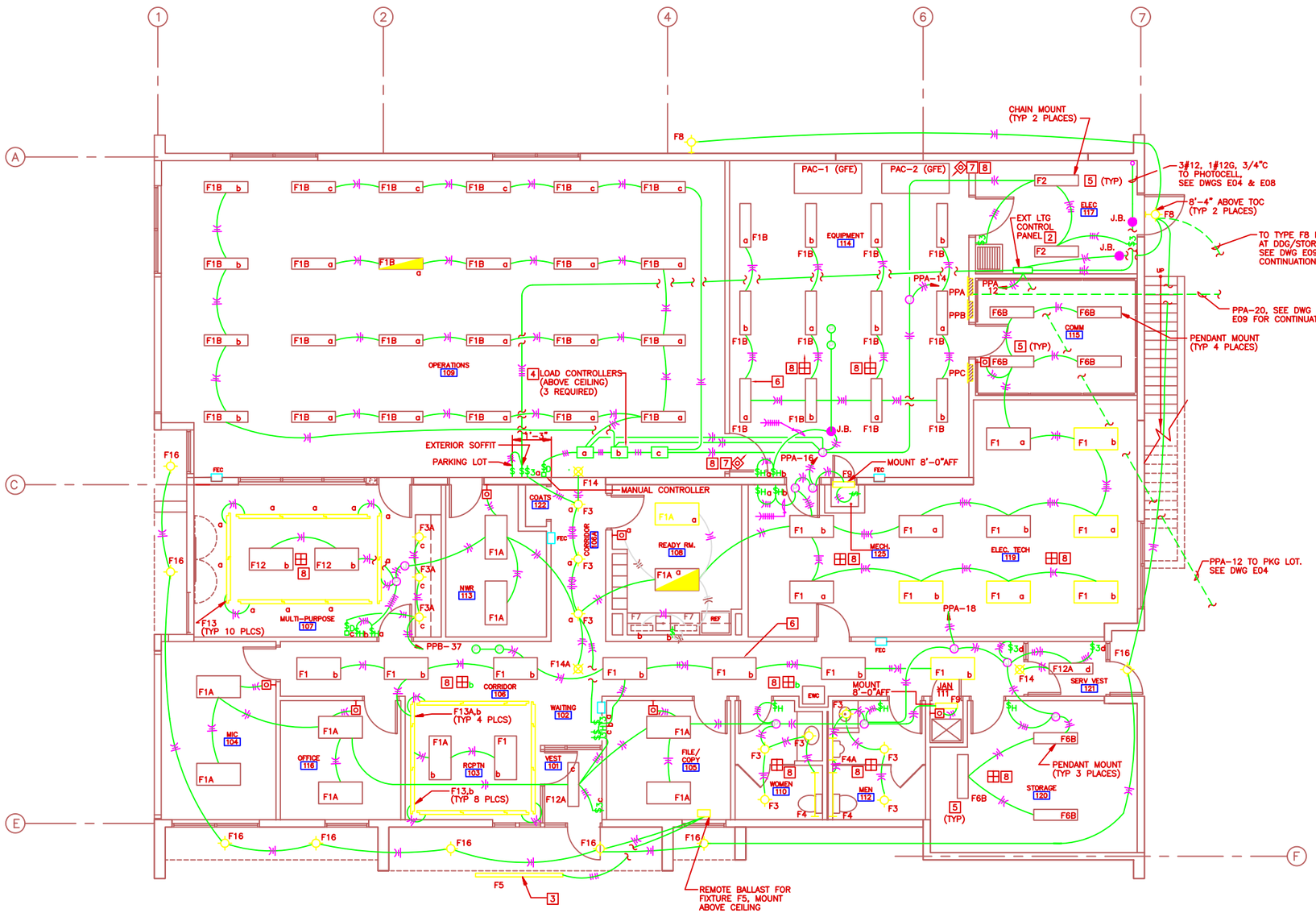
GARIBBEAN ARCHITECTS & ENGINEERS
P.A.NO. 3029B
SAN JUAN, P.R. 00929-3029

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

SPECIAL ENGINEERING PROGRAM OFFICE
SEPO
WEATHER FORECAST OFFICE

449404-	SIZE 5	DWG. NO. E06	CLIN. G0	REV. 1

09/07/94 13:04 SJL 1/4=1' KG00E061



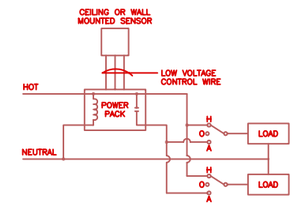
LIGHTING FLOOR PLAN

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

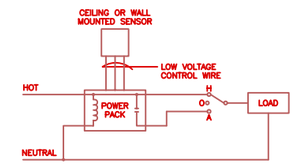
BUILDING NORTH

NOTES

1. SEE DRAWING E01 FOR FIXTURE SCHEDULE.
2. SEE DRAWING E03 FOR EXTERIOR LIGHTING CONTROL DIAGRAM.
3. SEE DRAWING A03 FOR EXACT LOCATION OF F5 FIXTURE OVER NOAA LOGO SIGN.
4. PROVIDE PLENUM-RATED CONTROL CABLE PER MANUFACTURER'S RECOMMENDATIONS.
5. MOUNT LIGHT FIXTURE 10'-0" AFF.
6. SEE DWG. A-08 REFLECTED CEILING PLAN FOR EXACT LOCATION OF FIXTURES IN AREAS HAVING HUNG CEILING.
7. MOUNT AS CLOSE TO CEILING AS POSSIBLE.
8. THREE LOW VOLTAGE PLENUM-RATED CONTROL WIRE BETWEEN SENSOR AND CORRESPONDING POWER PACK.



OCCUPANCY SENSOR WIRING DIAGRAM DUAL LEVEL



OCCUPANCY SENSOR WIRING DIAGRAM

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

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVED	ACTR./CONTR. APPROVED	DESCRIPTION OF REVISION
1	6/17/94	C.A	B.GUZMAN	J.L/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.E. LICENSE SEAL

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

CARIBBEAN ARCHITECT & ENGINEER
P.O.BOX 363009
SAN JUAN, P.R. 00936-3009

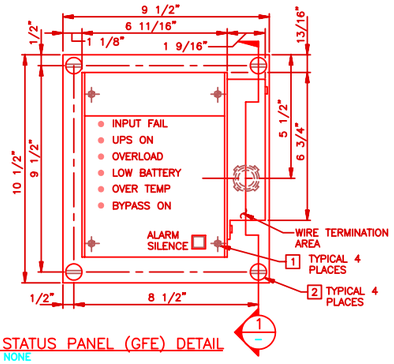
DRAWN: J.P.DIAZ
CHECKED: B.GUZMAN
SUPV. DWG: M. LEDO
ENGR./PROJ. MGR.: J.L/TLS
ACCPT./CONTR.: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
ELECTRICAL LIGHTING PLAN

SIZE	DWG. NO.	CLN.	REV.
449404-	5	E07	G0	1

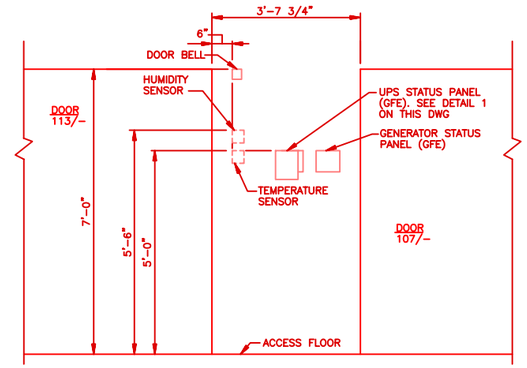
2022EC001 09/07/94 13:16 SJL 1/4=1' KCODEC71



UPS STATUS PANEL (GFE) DETAIL
SCALE: NONE

NOTES

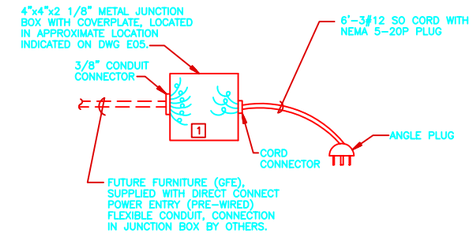
1. REMOVE RUBBER FEET FROM BACK OF GFE DISPLAY PANEL. INSTALL MOUNTING PLATE TO BACK PLATE OF DISPLAY PANEL WITH SAME SCREWS.
2. MOUNT UPS DISPLAY PANEL AND MOUNTING PLATE TO DRYWALL WITH HARDWARE AS REQUIRED.
3. MOUNTING PLATE SHALL BE 1/8" ALUM.



SECTION
SCALE: NONE
2 / E05

NOTE

1. SEE DWG M03 FOR LOCATION OF EQUIPMENT INDICATED WITH DASHED LINES.



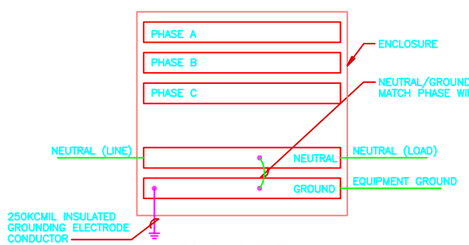
ELECTRICAL CONNECTION FOR FURNITURE

DETAIL
SCALE: NONE
3 / E05

1. USE ONLY BLACK, WHITE AND GREEN WIRES FROM FURNITURE SUPPLIED POWER ENTRY FOR CONNECTION TO CORD AND PLUG.

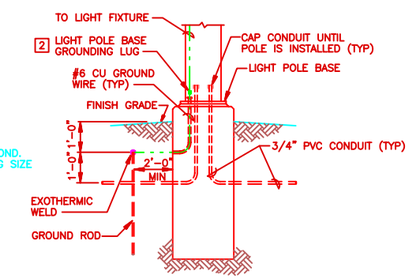
NOT TO BE INSTALLED
(CONTRACTOR ONLY SUPPLY THE JUNCTION AND CORD TO N)

ITEM	DESCRIPTION	QUANTITY			
		G11A			
1	CONNECTOR, SERVIT POST, #2-270, 1/2"-13 X 3/4" STUD	5			
2	BAR, COPPER, 1/4" X 2" X 1-2"	1			
3	STANDOFF INSULATOR	2			
4	EXPANSION ANCHOR, 1/2"-13 X 2-3/4"	2			
5	NUT, HEX, 1/2"-13, SILICON BRONZE	5			
6	LOCKWASHER, 1/2", SILICON BRONZE	5			
7	BOLT, MACH, 1/2"-13 X 1" ZINC PLATED	2			
8	LOCKWASHER, 1/4", SILICON BRONZE	2			
9	1/2"-13 X 4" LG ALL THREAD ROD, ZINC PLATED	2			



BONDING DETAIL

DETAIL
SCALE: NONE
4 / E02

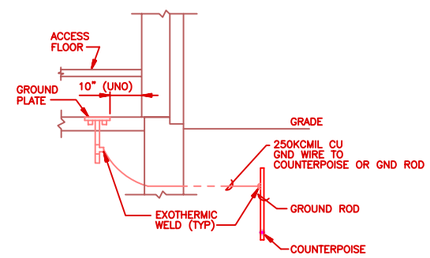


LIGHT POLE GROUNDING DETAIL

DETAIL
SCALE: NONE
5 / E04

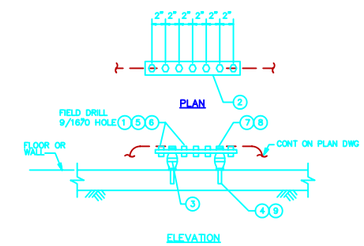
NOTE

1. SEE DWG C04 FOR TYPICAL LIGHT POLE FOUNDATION DETAIL.
2. BOND INCOMING EQUIPMENT GROUNDING CONDUCTOR TO LIGHT POLE BASE GROUNDING LUG.



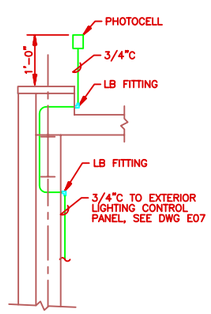
EQUIPMENT GROUNDING PLATE

DETAIL
SCALE: NONE
6 / E05

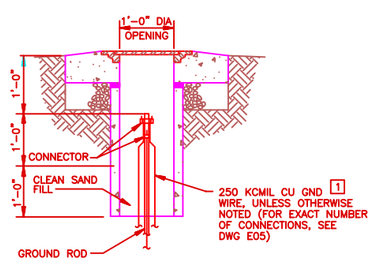


ISOLATED GROUND BUS FLOOR OR WALL MOUNTED ASSEMBLY

DETAIL
SCALE:
7 / E05



SECTION
SCALE: NONE
8 / E04 E07

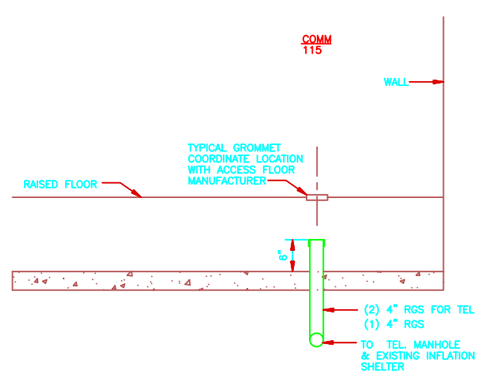


GROUND TEST WELL DETAIL

SECTION
SCALE: NONE
9 / E05

NOTES

1. USE SELF-LAMINATING WRITE-ON WIRE AND CABLE MARKERS TO IDENTIFY EACH GROUND WIRE.
2. SEE DWG C02 FOR GROUND TEST WELL LOCATIONS AND DWG C04 FOR CONSTRUCTION DETAIL.



SECTION
SCALE: NONE
10 / E06

NOTE: SEE DWG E06 FOR LOCATION OF CONDUITS.

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVED	ACTR/CODR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	C.A.	B.GUZMAN	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

GARIBBEAN ARCHITECTS & ENGINEERS
G.P.O. BOX 3008
SAN JUAN, PUERTO RICO 00936

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

SEPO

DRAWN J.P.DIAZ
CHECKED B.GUZMAN
SUP'V. ENGR. M.LEDO
ENGR/PROJ. MGR. JL/TLS
ACCTR/CODR. EHM/RAR

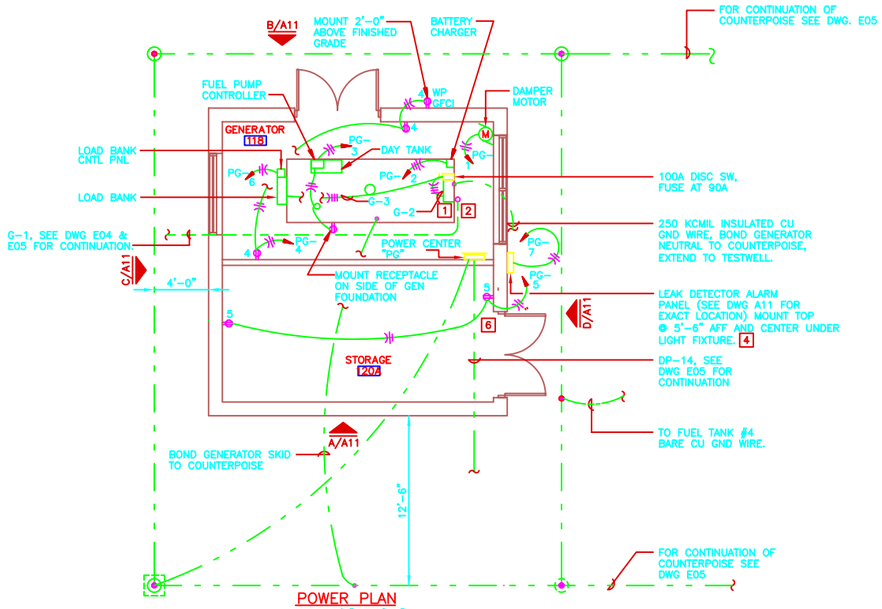
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

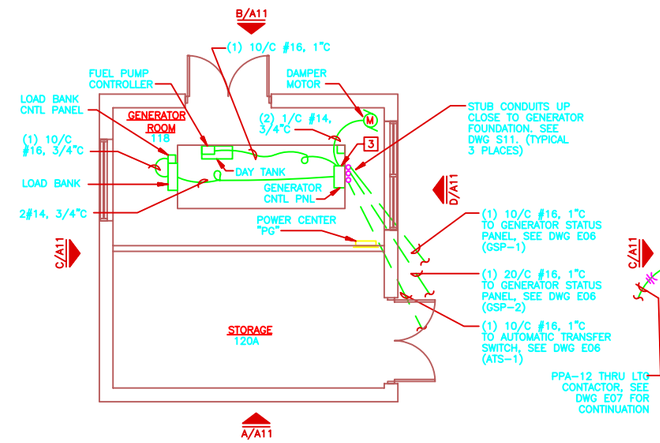
ELECTRICAL SECTIONS & DETAILS

SIZE	DWG. NO.	CLIN.	REV.
449404-	5	E08	G0	1

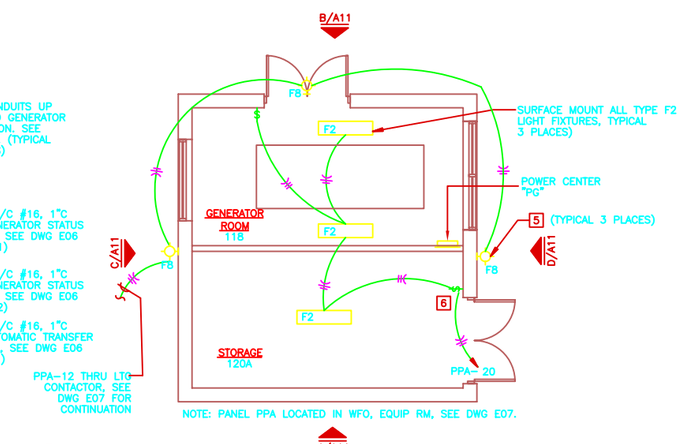
FDSP0004 09/07/94 13:19 SJL 12/1=1' KCOSC081



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



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



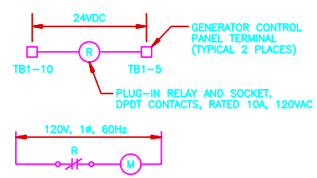
NOTE: PANEL PPA LOCATED IN WFO, EQUIP RM, SEE DWG E07.

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

BUILDING NORTH

VOLTS 208/120V	POWER PANEL PG	MAINS
PHASE 3ø	LOCATION GENERATOR ROOM	FEEDER DP-14
WIRE 4W , 10,000 AIC		

DESCRIPTION	BKR	CKT	POLE			POLE	CKT	BKR	DESCRIPTION
DAMPER MOTOR	20	1	1			2	2	20	BATTERY CHARGER, ENGINE HEATER
FUEL PUMP	20	3	3			4			
RCPTS, STORAGE	20	5	5			6	4	20	RCPTS, GENERATOR ROOM, EXTERIOR
LEAK DETECTION ALARM PANEL	20	7	7			8	6	20	LOAD BANK CONTROL PANEL
SPARE	20	9	9			10	8	20	SPARE
SPACE	–	–	11			12	–	–	SPACE
SPACE	–	–	13			14	–	–	SPACE
SPACE	–	–	15			16	–	–	SPACE
SPACE	–	–	17			18	–	–	SPACE



DETAIL 1
SCALE: NONE

NOTES

1. CONNECT LOAD BANK TO LOAD SIDE OF MAIN CIRCUIT BREAKER.
2. CURRENT TRANSFORMER (PROVIDED BY LOAD BANK MANUFACTURER) TO BE MOUNTED IN GENERATOR CONTROL PANEL. INSTALL ON PHASE A OF CIRCUIT G-1.
3. SEE DETAIL 1, THIS DRAWING, FOR DAMPER MOTOR CONTROL.
4. ROUTE CONTROL WIRING IN CONDUIT TO ALARM PANEL SEE DWG M07 FOR SECTION AND DETAILS.
5. SEE DWG A11 FOR FIXTURE ELEVATIONS.
6. MOUNT LIGHT SWITCH AND DUPLEX RECEPTACLE IN SAME OUTLET BOX WITH COVER FOR TOGGLE SWITCH AND DUPLEX RECEPTACLE.

GENERAL NOTES

1. CONDUIT STUB UP LOCATIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION.
2. SEE DWG E03 FOR GENERATOR CONTROL DIAGRAM.

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	FDI APPROVED	ACTN/CODE APPROVED	DESCRIPTION OF REVISION
1	6/17/94	C.A.	B.GUZMAN	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O. BOX 3969
SAN JUAN, PUERTO RICO 00936

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

SEPO

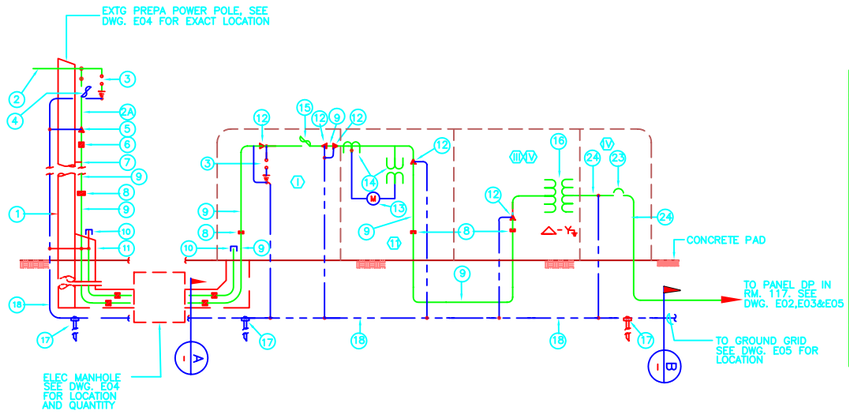
DRAWN J.P.DIAZ
CHECKED B.GUZMAN
SUP'V. ENGR. M.LEDO
ENGR/PROJ. MGR. JL/TLS
ACOTR/CODE EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
ELECTRICAL
DDG/STORAGE BUILDING

449404-	SIZE 5	DWG. NO. E09	CLIN. G0	REV. 1

09/07/94 15:09 SJL 1/4=1' KG00E091



SUBSTATION-ELECTRICAL ONE LINE DIAGRAM

NOT TO SCALE

TRANSCLOSURE BILL OF MATERIAL

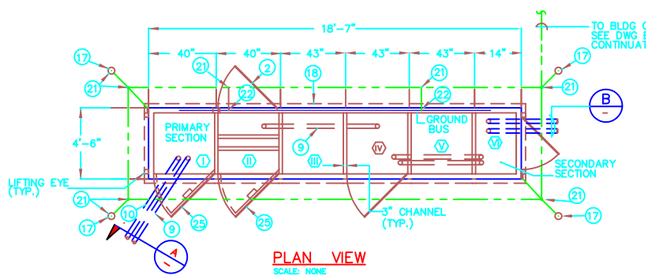
CUB. NO.	ITEM	QTY.	MFR.	CAT. NO.	DESCRIPTION
I	A	3	--	--	10 KV DISTRIBUTION TYPE LIGHTNING ARRESTERS.
	B	3	S&C	90422	POWER FUSES: SM-20 MOUNTING: 20OE, SM-20 TYPE 15 KV.
	C	3	S&C	3097	END FITTING: 20OE, SM-20 TYPE 15 KV.
	D	6	S&C	612020	FUSE UNIT: 20E, STANDARD 15 KV.
II	--	1	--	--	METERING CUBICLE (EQUIPMENT BY P.R.E.P.A.).
III, IV, V	--	3	--	--	EMPTY CUBICLE FOR ONE 100 KVA O.I.S.C. TRANSFORMER.
VI	--	1	--	--	SECONDARY CUBICLE.

SUBSTATION LEGEND:

1. SERVICE POLE, 65' HIGH, (EXISTING CONCRETE UTILITY POLE).
2. 13.2 KV, 3 Ph, 4W, NO. 556.5 MCM ACSR OVERHEAD PRIMARY LINE.
2A. 13.2 KV, 3 Ph, 3W, NO. 2 AWG COPPER PRIMARY.
3. 3 - 10 KV DISTRIBUTION TYPE LIGHTNING ARRESTERS.
4. 3 - 15 KV, 100 AMPS CONTINUOUS, 14,500 AMPS MIN. IC POLE MOUNTED. OPEN TYPE FUSE CUTOUTS. (20E FUSE UNIT).
5. 3 - 15 KV OUTDOOR TYPE, SHIELDED, PREFABRICATED CABLE TERMINATIONS.
6. 3" CABLE SUPPORT AND CONDUIT VENTILATOR (PREPA STD. URD-7).
7. CONDUIT STRAPS SPACED 6'-0" ON CENTERS.
8. 4" CONDUIT VENTILATOR "OZ" TYPE KVF OR APPROVED EQUAL.
9. PRIMARY FEEDER CONSISTING OF 3 NO. 2 AWG-15KV, COPPER, CROSS-LINKED (90°C) POLYETHYLENE INSULATED, SHIELDED, AND PVC JACKETED AND 1 NO. 2 XLP COPPER GROUND WIRE IN 4" PVC SCH. 40 CONDUIT TO BE BURIED 48" BELOW FINISHED GRADE. THE 4" CONDUIT RISERS ABOVE FINISHED GRADE SHALL BE RIGID GALVNIZED
10. 4" EMPTY CONDUIT CAPPED AT BOTH ENDS. THE 4" SPARE CONDUITS STUB-UPS ABOVE FINISHED GRADE SHALL BE RIGID GALVANIZED STEEL.
11. CONCRETE PROTECTION FOR PRIMARY CONDUIT (PREPA STD. URD-5).
12. 3 - 15 KV INDOOR TYPE, SHIELDED, PREFABRICATED CABLE TERMINATIONS.
13. METERING EQUIPMENT BY PREPA.
14. PT'S AND CT'S BY PREPA.
15. 13.2 KV LOAD INTERRUPTER AND POWER FUSES (20E), 30,000 AMPS. SYM. I.C. 95 KV BIL.
16. 3 - 100 KVA, ONE PHASE, OIL INMERSED, "NON PCB'S", SELF COOLED TRANSFORMERS, 13.2 KV, DELTA PRIMARY AND 480/277 V. AC, 4 WIRE S/N, WYE SECONDARY SERVICE WITH, 4-2 1/2% FULL CAPACITY VOLTAGE TAPS, BELOW PRIMARY VOLTAGE.
17. 3/4" DIA. X 10'-0" LONG COPPERWELD GROUND ROD BURIED IN EARTH AT 1'-0" BELOW FINISHED GRADE (OR FLOOR SLAB LEVEL).
18. # 4/0 A.W.G. HARD DRAWN, BARE MULTI-STRANDED COPPER CONDUCTORS FORMING A GROUND MAT BY FASTENING SAME WITH "BURNDY" THERMOWELD CONNECTIONS TO THE GROUND RODS.
19. NOT USED
20. NOT USED
21. THERMOWELD CONNECTION.
22. BOLTED CONNECTION.
23. 400 AMP., 3P., 480 V., MAIN CIRCUIT BREAKER. NEMA 4X STAINLESS STEEL ENCLOSURE. PADLOCK IN THE OPEN POSITION, 25000 AMPS. SYM. I.C.
24. (U-I)2-3"PVC SCH-40 CONC.ENCASED EACH WITH 4 - 250 MCM AWG THWN 600V. COPPER CONDUCTORS & 1 NO. 1/0 THWN GROUND CONDUCTOR, AND 2-3" SPARE, SEE SECTION "B" ON THIS DWG ALSO SEE DWG E02 AND E04
25. SECURITY DOOR MADE OF EXPANDED METAL OR GLASSTICK. DOOR SHALL ALLOW VISIBILITY TO THE INTERIOR COMPONENTS SHALL BE HINGED, HAVE A DEVICE TO MAINTAIN DOOR IN OPEN POSITION WHEN WORK IS DONE INSIDE CABINET, AND HAVE A PAD-LOCK FOR CLOSE POSITION. ALL IN ACCORDANCE WITH P.R.E.P.A.'S LETTER, NO. 89-4 OF JUNE 1989
26. (G-I) 3"PVC SCH-40 CONC.ENCASED WITH 4 # 350 KCMIL & 1 # 4 G SEE DWG E02 AND E04
27. 1-1 1/2" P.V.C. CONDUIT WITH 3#12 AWG. THHN/THWN, 600V. COPPER CONDUCTORS & 1#12 THWN GROUND. 1-1" P.V.C. CONDUIT FOR CONTROL.

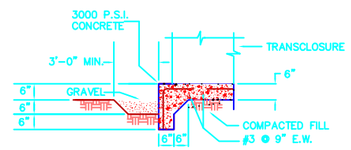
GENERAL NOTES

1- ALL WORK, ON EXISTING P.R.E.P.A. LINES SHALL BE DONE BY P.R.E.P.A. AT CONTRACTOR'S EXPENSES.
2- COORDINATE POINT OF CONNECTION AT LOCAL P.R.E.P.A. OFFICE BEFORE CONSTRUCTION BEGINS.
3- THERE SHALL BE NO WATER NOR SEWAGE PIPE LINES UNDER THE SUBSTATION.
4- ALL EQUIPMENT SHALL BE CONSTRUCTED ACCORDING TO ANSI, NEMA AND PREPA STANDARDS.
5- INSTALL APPROVED PREFABRICATED RELIEF STRESS CONES AT ALL PRIMARY CABLE TERMINALS.
6- CONTRACTOR SHALL PROVIDE ONE SPARE FUSE FOR EACH PRIMARY FUSE HOLDER.
7- BLADE OR FUSE RUNS SHALL ALWAYS CLEAR METAL PARTS BY AT LEAST SIX (6) INCHES.
8- OPEN BLADE OR FUSE OF PRIMARY SWITCH SHALL BE DE-ENERGIZED.
9- AT ONE (1) MILE OR LESS FROM SEASHORE, THE ENCLOSURE SHALL BE STAINLESS STEEL.
10- METER SHALL BE, AT ALL TIMES, ACCESSIBLE TO PREPA METER READERS. NO STORAGE SHALL BE PERMITTED IN METER COMPARTMENT.
11- THE CONTRACTOR SHALL INFORM PREPA WHEN THE CONSTRUCTION WILL START.
12- ALL CONSTRUCTION WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE SPECIFICATIONS AND CONSTRUCTION DRAWINGS. THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE SHALL BE FOLLOWED, EXCEPT WHERE LOCAL RE-GULATIONS ARE MORE STRINGENT, IN WHICH CASE LOCAL REGULATIONS SHALL GOVERN.
13- PREPA APPROVAL OF THESE PLANS APPLIES ONLY TO ELECTRICAL LINES AND EQUIPMENT PRECEDING THE METERING EQUIPMENT.
14- INSTALL A 6" WIDE, YELLOW IDENTIFICATION TAPE 12" BELOW GRADE, OVER ALL UNDERGROUND ELECTRICAL CIRCUITS. THE TAPE SHALL BE PERMANENTLY IMPRINTED WITH CONTINUOUS BLACK LETTERS, 1-1/4 X 1-1/4, WITH THE WORDS "PELIGRO, PELIGRO, ETC." AT THE TOP AND "LINEAS ELECTRICAS DEBAJO" AT THE BOTTOM.
15- CONTRACTOR SHALL COORDINATE ANY ELECTRICAL LINES CROSSING HIGHWAYS WITH THE PUBLIC WORKS DEPARTMENT.
16- SERVICE USERS WITH A CONNECTED LOAD OF 50 KVA OR LARGER SHALL BE UNDER P.R.E.P.A. GSP-1 TARIFF.
17- PREPA WILL NOT ENERGIZE THE PROJECT UNTIL ALL THE ELECTRICAL RIGHT OF WAYS, EITHER INSIDE OR OUTSIDE THE PROJECT LIMITS, ARE GRANTED TO THE AUTHORITY , AND A CERTIFICATION IS ISSUED BY THE AUTHORITY LEGAL DEPARTMENT IN THIS RESPECT.



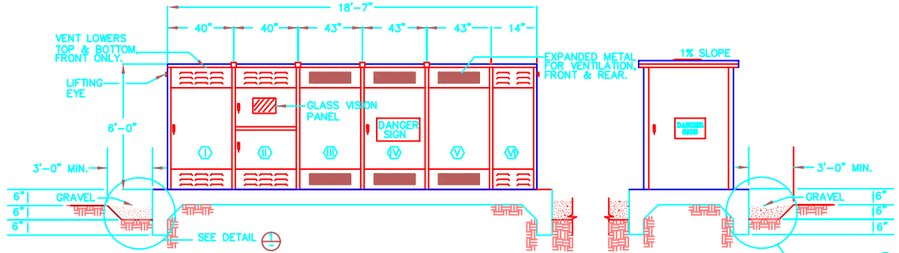
PLAN VIEW

SCALE: NONE



TRANSCLOSURE PAD DETAIL

SCALE: NONE

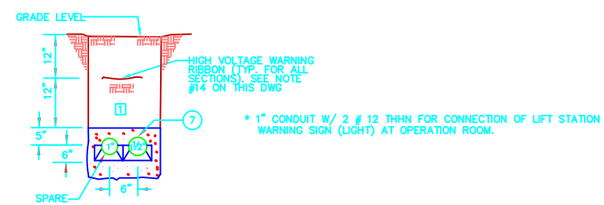


FRONT VIEW

SCALE: NONE

SIDE VIEW

SCALE: NONE

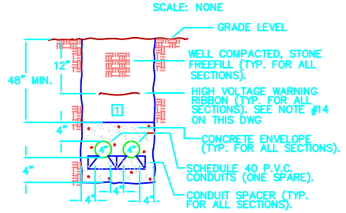


SECTION E

SCALE: NONE

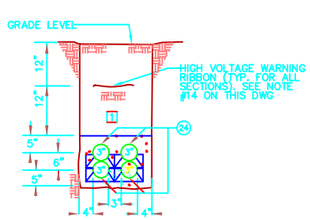
DETAIL 4

SCALE: NONE



SECTION A

SCALE: NONE



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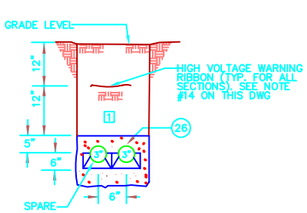

SECTION C

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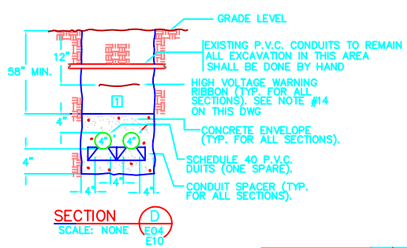


SECTION D

SCALE: NONE

NOTE:
1 SEE SPECIFICATION SECTION 02210 FOR EARTHWORK

CERTIFICATION ENDORSEMENT

PUERTO RICO ELECTRIC POWER AUTHORITY

EXAMINED: _____
RECOMMENDED: _____
ENDORSED: _____
APPLICATION NO: _____
DATE: _____ DESIGN KVA 300

PRELIMINARY REPORT No. 92-0-449

OBSERVATION

1.- Relocation of existing lines and any work in connection with energized lines will be done by P.R.E.P.A. with the exhibitor paying the cost as incurred. With previous notification by the builder, the above mentioned work should be completed before commencing the work of constructing the project.
2.- The approval of these plans by the Authority does not relieve the builder of complying with each and all of the regulations established by the National Electric Code and the Regulations of the Puerto Rico Electric Power Authority.
3.- The approval of these plans is on condition that the Authority be consulted on the condition of electrical service at the time of begining construction.
4.- The approval of these plans apply only to the line and equipment preceding the metering equipment.

REV.	DATE	APPROVED
1		
2		
3		
4		
5		
6		

Se aprueba este plano mediante certificacion del Ingeniero Electricista de que el mismo cumple con las disposiciones del codigo Electrico Nacional y los reglamentos vigentes de la Autoridad de Energia Electrica de P.R.

_____
Designer Signature

BOLIVAR GUZMAN
Electrical Eng. Lic. No. 9916

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVED	ACTR/CORR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	C.A.	B.GUZMAN	J.L./TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
G.P.O. BOX 363028
SAN JUAN, P.R. 00936-3028

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

WFO / NEXRAD PROGRAM
PROJECT NO. G001

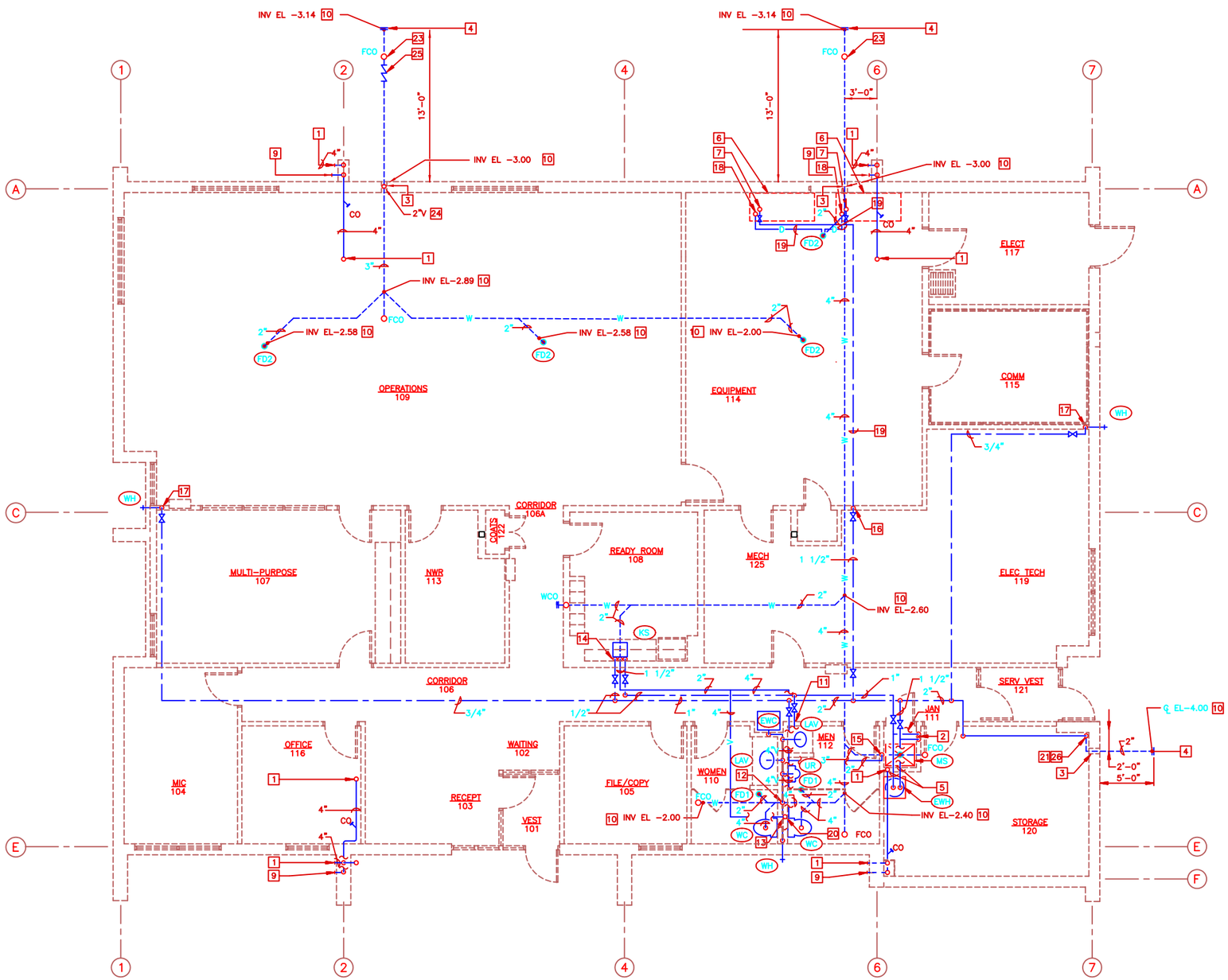
DRAWN: R. BURGOS
CHECKED: B.GUZMAN
SUPV. ENGR.: M. LEDO
ENGR/PROJ. MGR.: JL/TLS
ACCPR/CORR: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
13.2 KV SUBSTATION
PLAN, ELEV., & LEGEND

SIZE	DWG. NO.	CLM.	REV.
449404	5	E10	GO	1

09/07/94 15:36 SJL 12/1=1" KCODE101



PLUMBING PLAN NOTES

1. 4" SD UP TO ROOF DRAIN.
2. 3/4"CW, 3/4"HW DOWN TO MOP SINK.
3. PIPE SLEEVE THROUGH THICKENED FOOTING.
4. SEE SITE PLANS, DWG C-02 FOR COLD WATER CONTINUATION AND DWG C-03 FOR WASTE LINE CONTINUATION.
5. 1"CW, 1"HW TO WATER HEATER. SEE ELECTRIC WATER HEATER DETAIL, DWG M02.
6. PACKAGED AIR CONDITIONING UNIT.
7. 3/4" DRAIN CONNECTED TO PAC UNIT. ROUTE TO FLOOR DRAIN.
8. ORIGINAL NOTE DELETED.
9. 4" SD DOWN TO DOWN SPOUT NOZZLE. MOUNT DRAIN NOZZLE 12" AFF.
10. PIPE ELEVATIONS ARE REFERENCED TO FINISHED FLOOR ELEVATION OF 0'-0" = 7.67'.
11. 1 1/2"CW, 3/4"HW DOWN IN WALL. SEE HOT AND COLD WATER RISER DIAGRAM, DWG M02 FOR CONTINUATION.
12. 2"W DOWN THROUGH FLOOR.
13. 4"V UP, 4"VTR
14. 1/2"CW, 1/2"HW, 1 1/2"V DOWN, WITH 2"W TO SINK.
15. 2"V DOWN IN WALL.
16. 1 1/4"CW DOWN IN WALL.
17. 3/4"CW DOWN IN WALL.
18. CONNECT 1/2"CW TO PACKAGED AIR CONDITIONING UNIT.
19. ROUTE PIPING ON CHANNEL WITH HOLDING CLIPS ON CONCRETE SLAB, BELOW ACCESS FLOOR.
20. 4"V DOWN IN WALL.
21. 2"CW UP THROUGH FLOOR. LOCATE TO MISS FOOTING.
22. 4" SD DOWN IN WALL UP TO SPLASH ON WALKWAY.
23. PROVIDE A 12" BY 12" BY 4" CONCRETE PAD AROUND THE CLEAN OUT.
24. 2"V UP, 4"VTR
25. BACKFLOW PREVENTER FLAPPER VALVE BOX.
26. 2" SHUT-OFF VALVE AT VERTICAL.

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

BUILDING NORTH

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVED	ACTR/CODR APPROVED	DESCRIPTION OF REVISION
1	06/17/94	W.R.	W.R.	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

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WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

DRAWN: L. LEON
CHECKED: W. RODRIGUEZ
SUPV. ENGR.: W. RODRIGUEZ
ENGR/PROJ. MGR.: JL/TLS
ACCTR./CODR.: EHM/RAR

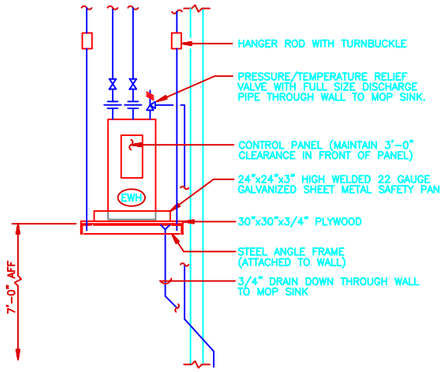
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

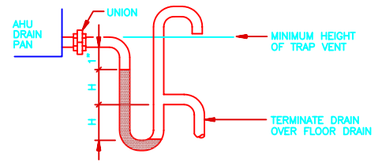
PLUMBING PLAN

SIZE	DWG. NO.	CLIN.	REV.
449404-	5	M01	G0	1

FDSP0004 09/07/94 15:42 SJL 1/4=1' KCGOM011



WATER HEATER DETAIL
SCALE: NONE



NOTE:
"H" EQUALS THE NEGATIVE ESP ON DRAW-THRU UNITS.

COIL TRAP DETAIL (DRAW-THRU UNIT)
SCALE: NONE

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	ROUGH-IN SIZES (INCH) HW	CW	V	W	REMARKS
WC	WATER CLOSET	–	1/2"	2"	4"	
UR	URINAL	–	3/4"	1 1/2"	2"	
LAV	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	
MS	MOP SINK	3/4"	3/4"	1 1/2"	3"	
KS	KITCHEN SINK	1/2"	1/2"	1 1/2"	1 1/2"	
FD	FLOOR DRAIN	–	–	1 1/2"	2"	
EWC	ELECTRIC WATER COOLER	–	1/2"	1 1/2"	1 1/2"	
WH	NON-FREEZE WALL HYDRANT	–	3/4"	–	–	

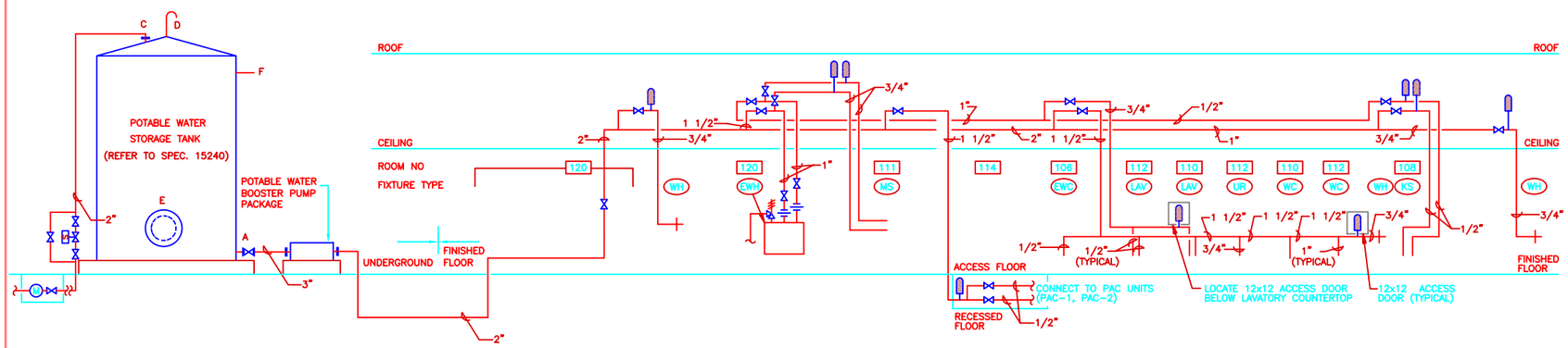
PLUMBING LEGEND & SYMBOLS

NOTE: STANDARD PROJECT LEGEND SHOWN – NOT ALL SYMBOLS/LINETYPES MAY BE USED AT THIS LOCATION.

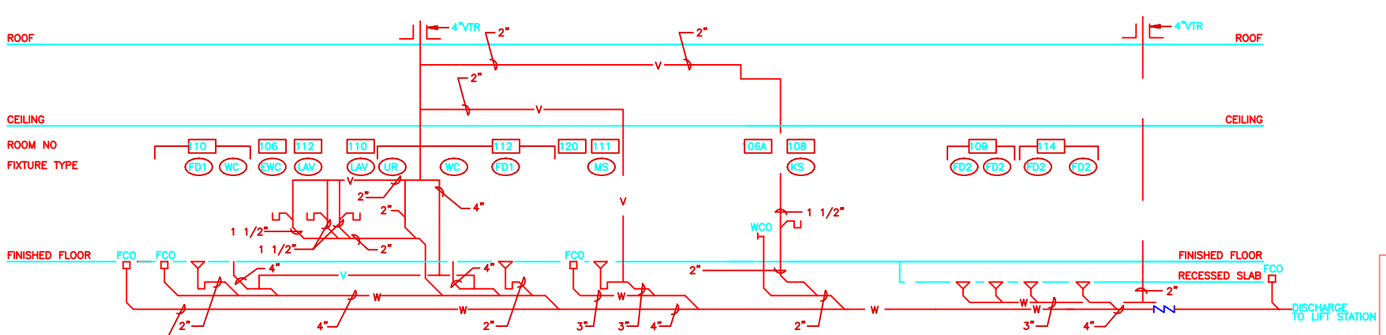
- COLD WATER (CW)
- HOT WATER (HW)
- PIPING BELOW FLOOR
- V — VENT (V)
- D — DRAIN (D)
- SD — STORM DRAIN (SD)
- W — SOIL OR WASTE (W)
- SHUT-OFF VALVE
- CHECK VALVE
- BACKFLOW PREVENTER
- STRAINER
- SOLENOID VALVE (ELECTRIC)
- UNION
- FLANGED
- PRESSURE/TEMPERATURE RELIEF VALVE
- M — WATER METER
- PRESSURE REDUCING VALVE
- WATER HAMMER ARRESTOR
- WCO — WALL CLEANOUT
- FCO — FLOOR CLEANOUT
- VTR — VENT THRU ROOF
- FIXTURE DESIGNATION
- A — REFERENCE POINT FOR PIPE CONTINUATION

PLUMBING EQUIPMENT

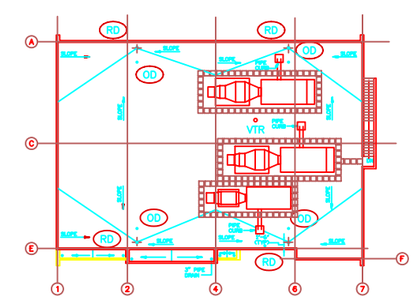
- EWC — ELECTRIC WATER COOLER RATED 7.6 GPH OF 50°F WATER WHEN SUPPLIED WITH 80°F WATER AND 90°F AMBIENT TEMPERATURE, 120V/1PH.
- EWH — ELECTRIC WATER HEATER RATED 3.0 KW, 20 GALLON STORAGE, 12 GAL/HR RECOVERY AT 100°F TEMPERATURE RISE, 277V/1PH.
- DN — DOWNSPOUT NOZZLE
- RD — ROOF DRAIN
- OD — OVERFLOW DRAIN



COLD & HOT WATER RISER DIAGRAM
SCALE: NONE



WASTE & VENT RISER DIAGRAM
SCALE: NONE



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

0 8' 16' 32' 48'
SCALE: 1/16"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVED	ACTR/DCON APPROVED	DESCRIPTION OF REVISION
1	06/17/94	W.R.	W.R.	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.E. LICENSE SEAL

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PROGRAM MANAGEMENT SERVICES CONTRACTOR
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KANSAS CITY, MO. U.S.A.

SEPO

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN: L. LEON
CHECKED: W. RODRIGUEZ
SUPV. ENGR: W. RODRIGUEZ
ENGR/PROJ. MGR: JL/TLS
ACCTR/DCON: EHM/RAR

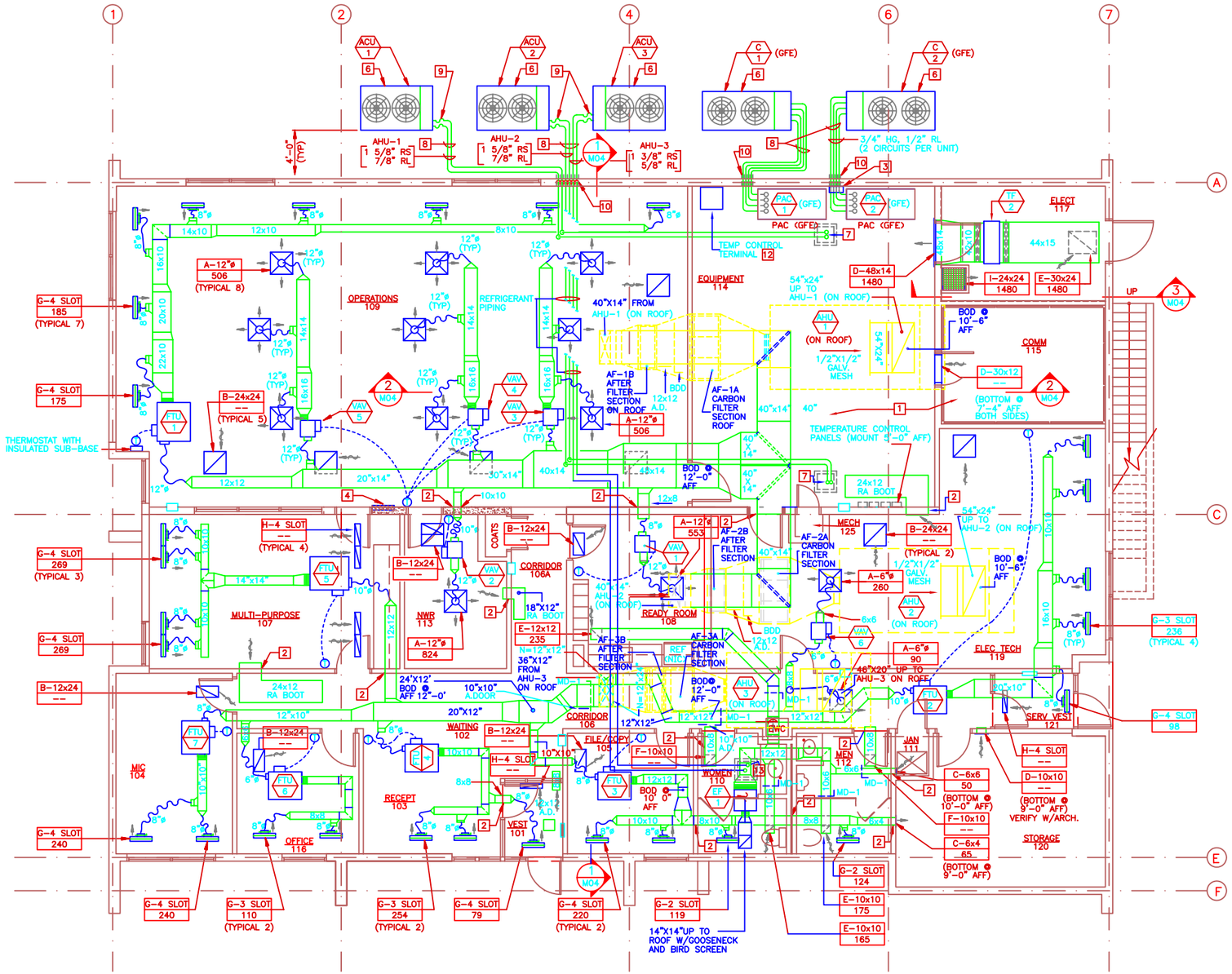
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

PLUMBING DETAILS & SCHEDULES

449404–	SIZE 5	DWG. NO. M02	CLN. G0	REV. 1

FDSEP0004 09/07/94 15:45 SJL 12/1=1' KCOM021



HVAC PLAN NOTES

1. PROVIDE 14 PERFORATED FLOOR PANELS. INSTALL 12 PANELS IN EQUIPMENT ROOM (114), AND 2 PANELS IN COMMUNICATIONS ROOM (115).
2. DUCT PENETRATION THROUGH SOUND WALL TO BE SEALED AIR TIGHT.
3. REMOTE CONTROL BOX (GFE). SEE PAC UNIT DETAIL, DWG M04.
4. ALARM AND INDICATOR LIGHTS PANEL.
5. RETURN AIR BOOTS AND RETURN AIR DUCT SHALL BE INTERNALLY LINED
6. ANCHOR CONDENSING UNITS TO SLAB.
7. PIPING ROOF CURB. SEE PIPE ROOF CURB DETAIL, DWG M04.
8. PROVIDE CHANNELS 8" HIGH WITH TUBING CLIPS WITH RUBBER ISOLATORS FOR REFRIGERANT LINE SUPPORT. SECURE CHANNELS TO SLAB WITH EXPANSION ANCHORS.
9. FLEXIBLE REFRIGERANT PIPE CONNECTION.
10. PROVIDE PIPE SLEEVES WITH MECHANICAL SEAL FOR REFRIGERANT PIPES.
11. COORDINATE DIFFUSER LOCATIONS IN LAY-IN CEILING WITH THE REFLECTED CEILING PLAN (DWG A06).
12. PROVIDE PORTABLE COMPUTER TABLE WITH CASTERS AND 25ft OF ADDITIONAL WIRE COILED BELOW ACCESS FLOOR.
13. SEISMIC RESTRAINTS FOR DUCT INNSTALLATION TO BE DONE IN COMPLIANCE WITH SMACNA'S 1992 MANUAL.

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

BUILDING NORTH

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	APPROVED	ACOR/CONS APPROVED	DESCRIPTION OF REVISION
1	6/17/94	J.CRUZ	RFR	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

CARIBBEAN ARCHITECTS & ENGINEERS

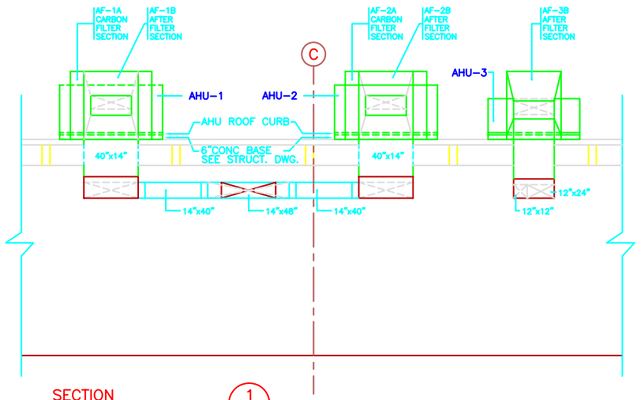
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

DRAWN J.CRUZ
CHECKED RFR
SUPV. ENGR. RFR
ENGR/PROJ. MGR. JL/TLS
ACOR/CONS. EHM/RAR

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
HVAC PLAN

449404-	SIZE 5	DWG. NO. M03	CLIN. G0	REV. 1

09/07/94 16:14 SJL 12/1=1' KCOONO31



SECTION 1 M03
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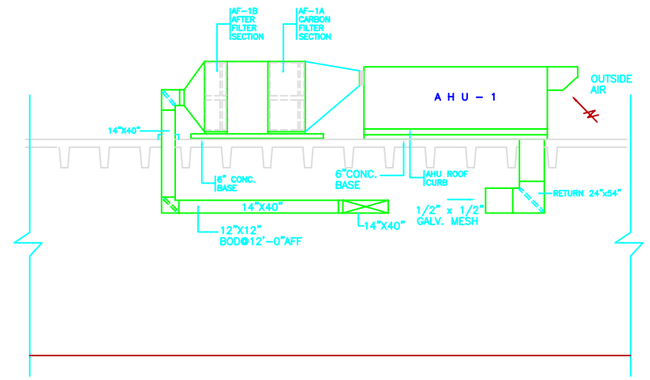

SECTION 2 M03
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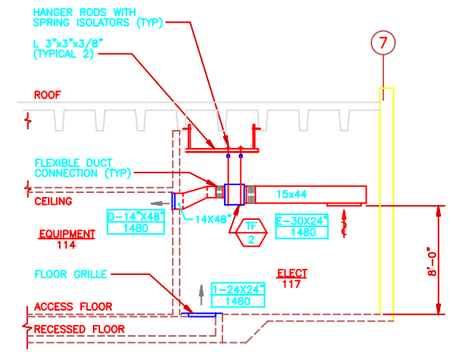

SECTION 3 M03
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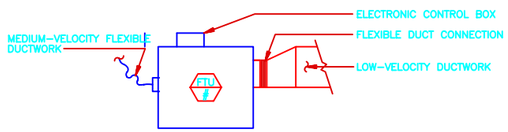
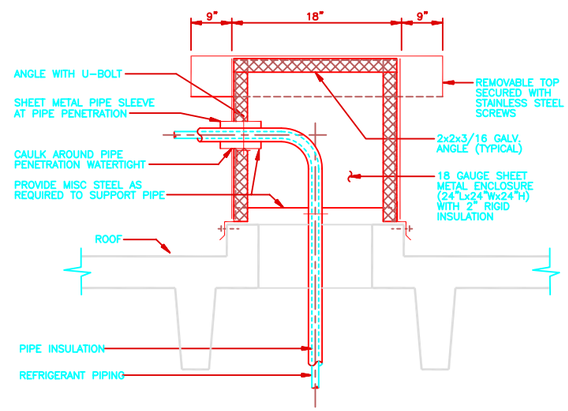
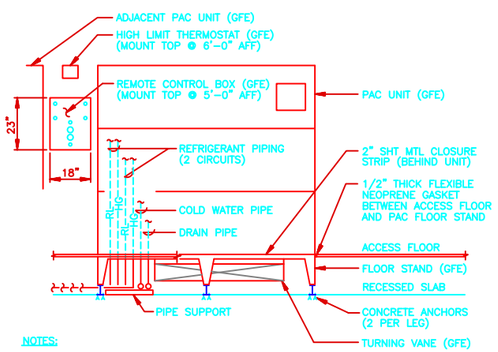


FTU DETAIL
SCALE: NONE



PIPE ROOF CURB DETAIL
SCALE: NONE

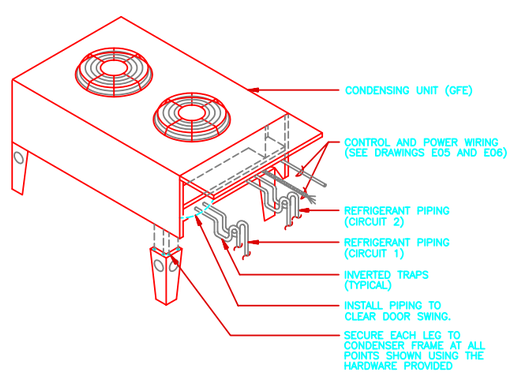
NOTE:
REFER TO DWG. A07 CURB DETILS



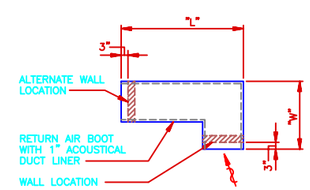
NOTES:

1. SECURE TURNING VANE TO FLOOR STAND PER MANUFACTURERS SEISMIC REQUIREMENTS.
2. INSTALL CONCRETE ANCHORS FOR FLOOR STAND PER MANUFACTURERS SEISMIC REQUIREMENTS.

PAC UNIT DETAIL
SCALE: NONE



PAC CONDENSING UNIT DETAIL
SCALE: NONE



RETURN AIR BOOT SCHEDULE			
RA BOOT SIZE	CFM RANGE	RA BOOT DIMENSIONS "L"	RA BOOT DIMENSIONS "W"
12x12	0-500	3'-0"	2'-0"
24x12	501-1000	7'-0"	3'-0"
24x24	1001-2000	7'-0"	3'-0"

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR SOUND WALL LOCATIONS
2. SEAL WALL PENETRATIONS AIRTIGHT

RA BOOT DETAIL
SCALE: NONE

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

NOTE:
FOR EQUIPMENT REFERENCE SEE DWG. M06

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVED	ACTR/CORR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	C.A.	RFR	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

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KANSAS CITY, MO.
U.S.A.

SEPO

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN: L.CRUZ
CHECKED: L.CRUZ
SUP'V. ENGR.: RFR
ENGR/PROJ. MGR.: JL/TLS
ACCTR./CORR.: EHM/RAR

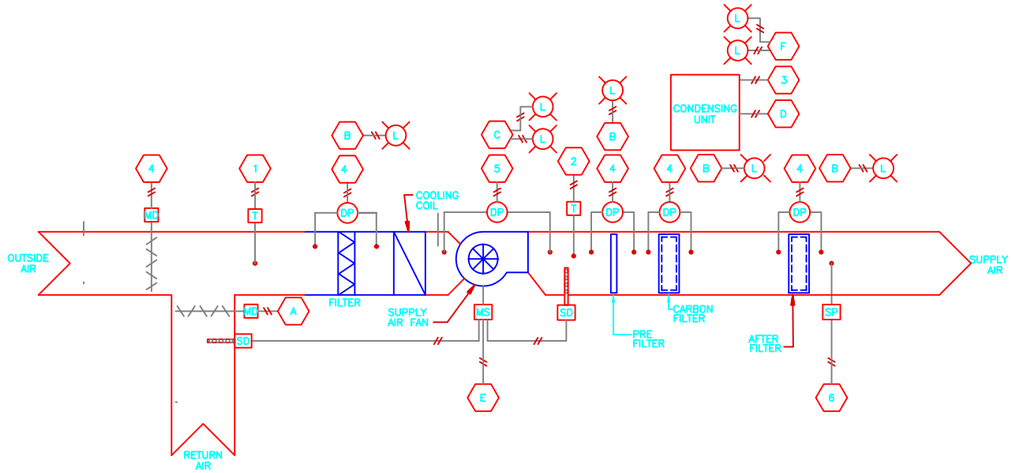
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

HVAC SECTIONS AND DETAILS

SIZE	DWG. NO.	CLIN.	REV.
449404- 5	M04	G0	1

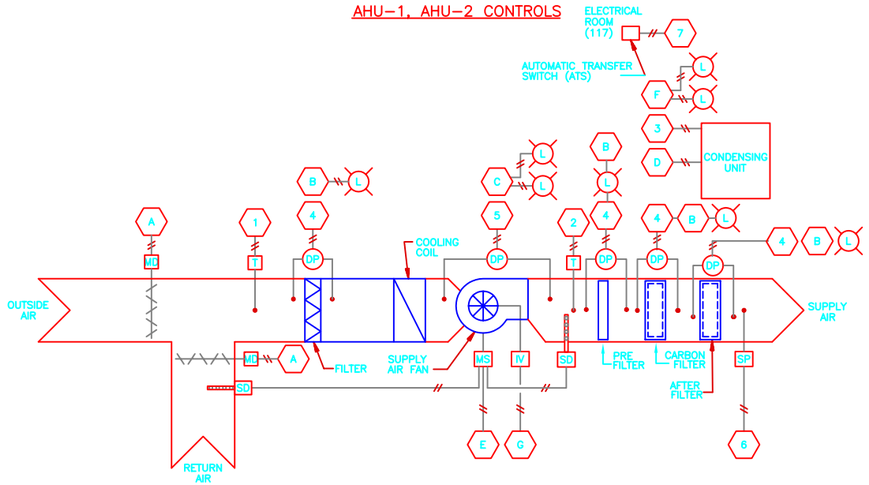
2022M04 10/08/97 18:12 MDP 1/4=1' KOCGM041



AHU-1, AHU-2 CONTROLS

INPUTS	OUTPUTS
1 M/A TEMPERATURE	A O/A, R/A DAMPERS
2 S/A TEMPERATURE	B DIRTY FILTERS
3 CONDENSING UNIT CONTROL SAFETIES	C SUPPLY FAN STATUS
4 FILTER DIFF PRESSURE	D COOLING
5 FAN DIFF PRESSURE	E AHU START/STOP
6 S/A STATIC PRESSURE	F CONDENSING UNIT STATUS

AHU-1, AHU-2 CONTROLS



AHU-3 CONTROLS

INPUTS	OUTPUTS
1 M/A TEMPERATURE	A O/A, R/A DAMPERS
2 S/A TEMPERATURE	B DIRTY FILTERS
3 CONDENSING UNIT CONTROL SAFETIES	C SUPPLY FAN STATUS
4 FILTER DIFF PRESSURE	D COOLING
5 FAN DIFF PRESSURE	E AHU START/STOP
6 S/A STATIC PRESSURE	F CONDENSING UNIT STATUS
7 COMMERCIAL/ GENERATOR POWER STATUS	

AHU-3 CONTROLS

SEQUENCE OF CONTROLS

AIR HANDLING UNIT (AHU-1 AND 2)

AIR HANDLING UNITS (AHU-1,2) SERVE THE OPERATIONS AREA AND ARE OPERATED ON A 24 HOUR SCHEDULE. ONLY ONE AIR HANDLING UNIT SHALL OPERATE, AND THE NON-OPERATING UNIT SHALL SERVE AS A BACKUP. THE BACK-UP UNIT SHALL BE STARTED AUTOMATICALLY UPON FAILURE OF THE OTHER UNIT. THE OPERATION OF THE AIR HANDLING UNITS SHALL ALSO BE ALTERNATED. THE SUPPLY AIR FAN SHALL RUN CONTINUOUSLY. A SUPPLY AIR STATIC PRESSURE SENSOR SHALL MODULATE THE VARIABLE FREQUENCY DRIVE A SUPPLY AIR TEMPERATURE SENSOR SHALL MODULATE THE COMPRESSORS TO MAINTAIN 55°F DISCHARGE AIR TEMPERATURE. THE COMPRESSORS SHALL BE EQUIPPED WITH CYLINDER UNLOADERS FOR STAGED COOLING.

AIR HANDLING UNIT (AHU-3)

AIR HANDLING UNIT (AHU-3) SERVES THE ADMINISTRATION AREA AND OPERATES ON AN 8 HOUR SCHEDULE.
THE OPERATION OF AIR HANDLING UNIT (AHU-3) IS SIMILAR TO AIR HANDLING UNITS (AHU-1,2), WITH THE FOLLOWING EXCEPTION: WHEN THE UNIT WAS SERVED FROM EMERGENCY POWER, AHU-3 SHALL NOT BE ALLOWED TO RUN.

GOVERNMENT FURNISHED PACKAGED AIR CONDITIONING UNITS (PAC-1,2)

THE PACKAGE UNITS (PAC-1,2), THERE ASSOCIATED CONDESING UNITS (C-1,2) AND THE REMOTE CONTROL BOX (RCB) ARE GOVERNMENT FURNISHED EQUIPMENT. BOTH PAC UNITS HAVE INTERNAL CONTROLS AND ARE CONNECTED TO THE RCB. THE RCB CONTROLS, LEAD/LAG SEQUENCING, OF THE UNITS TO MAINTAIN EQUAL RUN TIME. A HIGH TEMPERATURE THERMOSTAT IS ALSO CONNECTED TO THE RCB, TO ENERGIZE THE LAG PAC UNIT ON A HIGH SPACE TEMPERATURE SIGNAL. BOTH PAC UNITS WILL BE ABLE TO RUN IN THE NORMAL OPERATION MODE. UPON A SIGNAL FROM THE AUTOMATIC TRANSFER SWITCH (ATS), THE RCB WILL ALLOW ONLY ONE PAC UNIT TO RUN IN THE EMERGENCY OPERATION MODE.

EXHAUST FAN (EF-1)

THE EXHAUST FAN SHALL RUN CONTINUOUSLY.

TRANSFER FAN (TF-2)

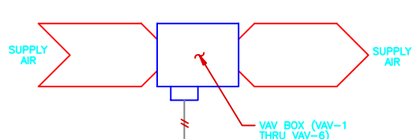
THE TRANSFER FAN SHALL RUN CONTINUOUSLY.

FAN TERMINAL UNITS

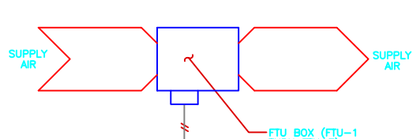
FTU'S SHOULD RUN CONTINOUSLY.

TEMPERATURE CONTROL LEGEND

T — DUCT TEMPERATURE SENSOR	L — INDICATOR LIGHT (LOCATED IN ALARM AND INDICATION LIGHTS PANEL)
FS — AIRFLOW SWITCH	T — ROOM TEMPERATURE SENSOR
DP — DIFFERENTIAL PRESSURE SWITCH	MS — MOTOR STARTER /VARIABLE FREQ. DRIVE
SD — DUCT SMOKE DETECTOR	TEMPERATURE CONTROL PANEL INPUT OR OUTPUT
D — MOTOR OPERATED DAMPER (NO-NORMALLY OPEN) (NC-NORMALLY CLOSED)	CONTROL WIRING
IV — INLET GUIDE VANE	
SP — STATIC PRESSURE SENSOR	



VAV CONTROLS



FTU CONTROLS

VAV AND FTU CONTROLS

INPUTS	OUTPUTS
1 SPACE TEMPERATURE	A VAV BOX (VAV-1)
.	.
.	.
.	.
6 SPACE TEMPERATURE	F VAV BOX (VAV-6)
7 SPACE TEMPERATURE	G FTU BOX (FTU-1)
.	.
.	.
.	.
13 SPACE TEMPERATURE	M FTU BOX (FTU-7)

TEMPERATURE CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETAILING THE HVAC CONTROL SYSTEM, POWER WIRING, LOW VOLTAGE CONTROL WIRING, AND CONNECTIONS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE TEMPERATURE AND HUMIDITY CONTROL SYSTEM BASED ON THE SCHEMATIC AND SEQUENCE OF OPERATION AS SHOWN ON THIS DRAWING.
2. THE ALARM AND INDICATION LIGHTS PANEL SHALL BE PROVIDED WITH THE FOLLOWING IDENTIFICATION AND INDICATOR LIGHTS:

FAN (AHU-1) OPERATING/FAILURE	GREEN/RED
FAN (AHU-2) OPERATING/FAILURE	GREEN/RED
FAN (AHU-3) OPERATING/FAILURE	GREEN/RED
DIRTY FILTERS (AHU-1)	RED
DIRTY FILTERS (AHU-2)	RED
DIRTY FILTERS (AHU-3)	RED
CONDENSING UNIT (ACU-1) OPERATING/FAILURE	GREEN/RED
CONDENSING UNIT (ACU-2) OPERATING/FAILURE	GREEN/RED
CONDENSING UNIT (ACU-3) OPERATING/FAILURE	GREEN/RED

3. ALL 24 VOLT CONTROL WIRING SHALL BE FURNISHED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR AND SHALL BE SHIELDED CLASS 2 PLENUM RATED CABLE.
4. ALL 120 VOLT POWER WIRING TO CONTROL PANELS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR (SEE ELECTRICAL DRAWINGS).
5. ALL 24 VOLT CONTROL WIRING UNDER THE FLOOR SHALL BE INSTALLED IN CONDUITS (SEE ELECTRICAL DRAWINGS).
6. SET ROOM TEMPERATURE AT 72°F FOR ALL AREAS SERVED BY AHU-1 AHU-2, AND AHU-3
7. SET ALTERNATING TIME OF AHU-1 & 2, AND PAC-1 & 2 FOR 84 HOUR INTERVALS.

NO.	DATE	PREPARED BY	CHECKED BY	PGM APPROVED	ACTR/CUSTR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	C.A.	RFR	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

PR. LICENSE SEAL

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN J.CRUZ
CHECKED J.CRUZ
SUPV. ENGR. RFR
ENGR/PROJ. MGR. JL/TLS
ACCTR/CUSTR. EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
HVAC
TEMPERATURE CONTROLS

CARIBBEAN ARCHITECTS & ENGINEERS
PA.SOC 363000
SAN JUAN, P.R. 00906-3000

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

SEPO

449404- | 5 | M05 | G0 | 1

SIZE | DWG. NO. | CLIN. | REV.

2022M05 09/07/94 16:22 SJL 12/1=1" KCGM051

AIR HANDLING UNIT SCHEDULE

EQUIP NO	DESCRIPTION	SUPPLY AIR FAN: FAN TYPE	TOTAL AIR (CFM)	OUTSIDE AIR (CFM)	TSP (IN WG)	ESP (IN WG)	FAN RPM	FAN HP	POWER	REFRIGERANT COOLING COIL: TOTAL CAPACITY (BTU/HR)	SENSIBLE CAPACITY (BTU/HR)	E A T DB (°F)	E A T WB (°F)	STATIC PRESS DROP (IN WG)	ROWS & FINS/IN	FILTERS: TYPE	SP (IN WG) CLEAN	SP (IN WG) DIRTY	ACCESSORIES	REMARKS
AHU 1	HORIZONTAL DRAW THROUGH	AIR FOIL	7,400	750	5	1.60	1,947	10	460V/3PH	216,783	144,655	74.3	65.1	.57	4/14	2"-30% PLEATED PRE-FILTER *	.30	.70	VFD, RC	SELECT FAN IN THE QUIET RANGE, 0.25" A.P.D. FOR MIXING BOX SECTION BASED ON A YORK YCD-44AFB
AHU 2	HORIZONTAL DRAW THROUGH	AIR FOIL	7,400	750	5	1.60	1,947	10	460V/3PH	216,783	144,655	74.3	65.1	.57	4/14	2"-30% PLEATED PRE-FILTER *	.30	.70	VFD, RC	SELECT FAN IN THE QUIET RANGE, 0.25" A.P.D. FOR MIXING BOX SECTION BASED ON A YORK YCD-44AFB
AHU 3	HORIZONTAL DRAW THROUGH	AIR FOIL	4,900	490	5	1.60	2,218	7-1/2	460V/3PH	143,546	95,785	74.3	65.3	.58	6/8	2"-30% PLEATED PRE-FILTER *	.30	.70	VFD, RC	SELECT FAN IN THE QUIET RANGE, 0.25" A.P.D. FOR MIXING BOX SECTION BASED ON A YORK YCD-43AFB

NOTES: 1. ACCESSORIES: VFD – VARIABLE FREQUENCY DRIVE, RC – ROOF CURB.
* SEE SPECIFICATIONS FOR CARBON AND AFTER FILTER SECTION AND SCHEDULE.

FAN SCHEDULE

EQUIP NO	FAN TYPE	DRIVE TYPE	AIRFLOW (CFM)	TSP (IN WG)	MAXIMUM FAN HP	POWER	ACCESSORIES	REMARKS
EF 1	INLINE CENTRIFUGAL	DIRECT	640	0.50"	1/4	120V/1PH	BDD, VI, ECS	3.5 SONES
EF 2	INLINE CENTRIFUGAL	DIRECT	1480	0.375"	1/2	120V/1PH	VI, ESC	6.0 SONES

NOTES: 1. ACCESSORIES: BDD – BACKDRAFT DAMPER; VI – HANGER RODS WITH VIBRATION ISOLATORS; ESC – ELECTRONIC SPEED CONTROL;

GOVERNMENT FURNISHED PACKAGED AIR CONDITIONER SCHEDULE

EQUIP NO.	SUPPLY FAN: AIRFLOW (CFM)	FAN HP	ESP (IN WG)	COOLING COIL: TOTAL CAPACITY (BTU/HR)	SENSIBLE CAPACITY (BTU/HR)	E A T DB (°F)	E A T (% RH)	ELECTRICAL: POWER	FLA	MCA	ACCESSORIES	REMARKS
PAC 1	6,400	3.0	0.50	115,700	107,700	72.0	50	460V/3PH	37.9	43.2	DDS, FS, HD, FM	DOWNFLOW, NOMINAL 10 TON
PAC 2	6,400	3.0	0.50	115,700	107,700	72.0	50	460V/3PH	37.9	43.2	DDS, FS, HD, FM	DOWNFLOW, NOMINAL 10 TON

NOTES: 1. ALL UNITS HAVE 4"-30% PRE-FILTERS
2. FLA – FULL LOAD AMPS; MCA – MINIMUM CIRCUIT AMPS
3. ACCESSORIES: DDS – DOOR INTERLOCKED DISCONNECT SWITCH; FS – FLOOR STAND (W/SEISMIC CONSTRAINTS); HD – HEAT DETECTOR; FM – OPTIONAL FAN MOTOR

DIFFUSER SCHEDULE

SYMBOL	DIFFUSER TYPE	FACE TYPE	FACE SIZE	ACCESSORIES	REMARKS
A --	CEILING SUPPLY	LOUVERED	24x24	BD	
B --	CEILING RETURN	PERFORATED	12x24 or 24x24		
C --	SIDEWALL SUPPLY	DOUBLE DEFLECTION	SEE PLANS	OBD	
D --	SIDEWALL RETURN	FIXED LOUVER	SEE PLANS		PROVIDE ALUMINUM CONSTRUCTION ON ALL EXTERIOR GRILLES AS INDICATED ON PLANS.
E --	SIDEWALL/CEILING EXHAUST	FIXED LOUVER	SEE PLANS	OBD	
F --	TRANSFER GRILLE	FIXED LOUVER	SEE PLANS		PROVIDE GRILLE WITH TRANSFER BOOT AND 1" ACOUSTICAL DUCT LINING.
G --	CEILING SLOT SUPPLY	LINEAR	2'-0" LONG	BD, LFP	SEE FLOOR PLAN FOR NUMBER OF 3/4" SLOTS.
H --	CEILING SLOT RETURN	LINEAR	2'-0" LONG	LFP	SEE FLOOR PLAN FOR NUMBER OF 3/4" SLOTS.
I --	FLOOR GRILLE	FIXED BAR	SEE PLANS	OBD	

NOTES: 1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT DIFFUSER LOCATIONS.
2. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES.
3. DIFFUSER ACCESSORIES:
BD – BUTTERFLY DAMPER
OBD – OPPOSED BLADE DAMPER
LFP – ACOUSTICALLY LINED FACTORY PLENUM

FAN TERMINAL UNIT SCHEDULE

EQUIP NO	PRIMARY INLET SIZE	PRIMARY AIRFLOW (CFM)	FAN AIRFLOW @ 0.25" SP (CFM)	FAN HP	ELECTRICAL	REMARKS
FTU 1	12"	1,470	1,470	3/4	480V – 3 PHASE	OPERATIONS (109)
FTU 2	10"	1,045	1,100	1/2	480V – 3 PHASE	ELEC TECH (119)
FTU 3	8"	748	748	1/4	120V – 1 PHASE	FILE/COPY (105)
FTU 4	8"	587	610	1/4	120V – 1 PHASE	RECEPTION (103)
FTU 5	10"	1,076	1,076	3/4	480V – 3 PHASE	MULTI-PURPOSE (107)
FTU 6	6"	220	300	1/10	120V – 1 PHASE	OFFICE (116)
FTU 7	8"	480	520	1/4	120V – 1 PHASE	MIC OFFICE (104)

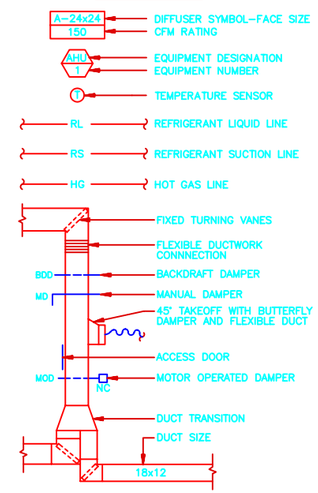
NOTE: 1. MAINTAIN 3'-0" CLEARANCE IN FRONT OF ELECTRIC CONTROL PANEL.

HVAC ABBREVIATIONS

NOTE: STANDARD PROJECT LEGEND SHOWN – NOT ALL ITEMS MAY BE USED AT THIS LOCATION.

ACU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
C	CONDENSER
CUH	CABINET UNIT HEATER
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
FTU	FAN TERMINAL UNIT
GFE	GOVERNMENT FURNISHED EQUIPMENT
HU	HUMIDIFIER
MOD	MOTOR OPERATED DAMPER
PAC	PACKAGED AIR CONDITIONING UNIT
TF	TRANSFER FAN
VAV	VARIABLE AIR VOLUME UNIT
VFD	VARIABLE FREQUENCY DRIVE

HVAC LEGEND



VARIABLE AIR VOLUME BOX SCHEDULE

EQUIP NO.	AIRFLOW (CFM)	INLET SIZE	NOISE CRITERIA VALUE	MAXIMUM A P D (IN WG)	REMARKS
VAV 1	553	8"	30	0.25"	READY ROOM (108)
VAV 2	824	10"	30	0.25"	NWR (113)
VAV 3	1518	12"	32	0.25"	OPERATIONS (109)
VAV 4	1518	12"	32	0.25"	OPERATIONS (109)
VAV 5	1518	12"	32	0.25"	OPERATIONS (109)
VAV 6	260	6"	29	0.25"	ELEC TECH (119)

NOTES: 1. SET MINIMUM AIRFLOW AT 0% OF BOX AIRFLOW.
2. NOISE CRITERIA (NC) VALUES SHALL BE IN ACORDANCE WITH ARI-880. NC VALUES ARE BASED ON 1.00" STATIC PRESSURE DIFFERENTIAL.

FILTERS SCHEDULE

ITEM NO.	MANUFACTURER	MODEL NO.	FACE VELOCITY FPM	CFM @ FACE VEL.	SIZE	NECK SIZE	% EFF. (NBS)	REMARKS
AF-1A	FARR	3CF GLIDE/PACK	500	8,000	48"x48"	21"	–	CARBON FILTER
AF-2A	FARR	3CF GLIDE/PACK	500	8,000	48"x48"	21"	–	CARBON FILTER
AF-3A	FARR	3CF GLIDE/PACK	500	4,900	48"x36"	21"	–	CARBON FILTER
AF-1B	FARR	4P GLIDE/PACK	500	8,000	48"x48"	12"	95%	AFTER FILTER
AF-2B	FARR	4P GLIDE/PACK	500	8,000	48"x48"	12"	95%	AFTER FILTER
AF-3B	FARR	4P GLIDE/PACK	500	4,900	48"x36"	12"	95%	AFTER FILTER

CONDENSING UNITS SCHEDULE

UNIT NO.	SERVING	MANUFACTURER	MODEL NO.	COOLING LOAD M.B.H.	CFM	SAT. SUCTION TEMP. (COMP) °F	TEMP. AIR ENT. TO COND.	SATURATED COND. TEMP.	ELECTRICAL CHARACTERISTICS V	PH	Hz	ACCESSORIES	REMARK'S
ACU-1	AHU-1	CARRIER	38AK024	247.00	10,600	45°	90°	131	480	3	60		
ACU-2	AHU-2	CARRIER	38AK024	247.00	10,600	45°	90°	131	480	3	60		
ACU-3	AHU-3	CARRIER	38AE016	183.00	6,000	45°	90°	133	480	3	60		
C-1	PAC-1	CARRIER	38AE014	148.00	8,800	45°	90°	125	480	3	60	FAN SPEED CONTROL	GOVERNMENT FURNISHED EQUIPMENT
C-2	PAC-2	CARRIER	38AE014	148.00	8,800	45°	90°	125	480	3	60	FAN SPEED CONTROL	GOVERNMENT FURNISHED EQUIPMENT

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVED	ACTN/DATE APPROVED	DESCRIPTION OF REVISION
1	6/17/94	C.A.	RFR	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
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WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

SEPO

DRAWN: A.CRUZ
CHECKED: J.CRUZ
SUPV. ENGR.: RFR
ENGR/PROJ. MGR.: JL/TLS
ACTN/DATE: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

HVAC SYMBOLS, SCHEDULES AND LEGEND

449404-	SIZE 5	DWG. NO. M06	CLIN. GO	REV. 1

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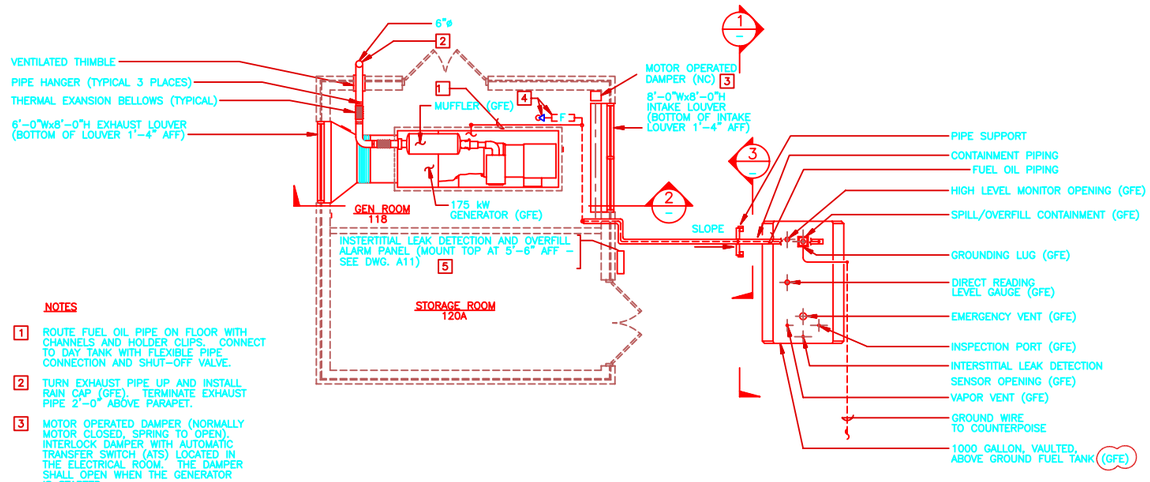
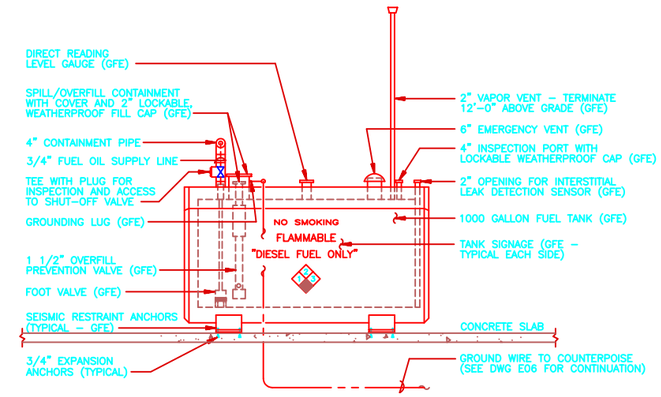


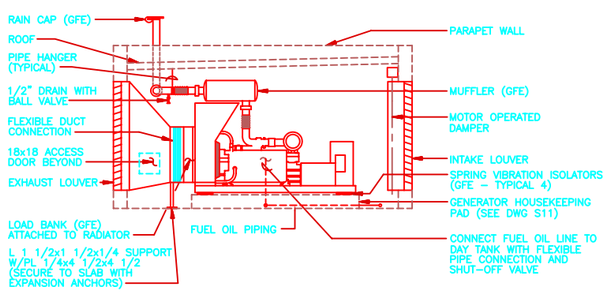
NOTES

1. ROUTE FUEL OIL PIPE ON FLOOR WITH CHANNELS AND HOLDER CLIPS. CONNECT TO DAY TANK WITH FLEXIBLE PIPE CONNECTION AND SHUT-OFF VALVE.
2. TURN EXHAUST PIPE UP AND INSTALL RAIN CAP (GFE). TERMINATE EXHAUST PIPE 2'-0" ABOVE PARAPET.
3. MOTOR OPERATED DAMPER (NORMALLY MOTOR CLOSED, SPRING TO OPEN). INTERLOCK DAMPER WITH AUTOMATIC TRANSFER SWITCH (ATS) LOCATED IN THE ELECTRICAL ROOM. THE DAMPER SHALL OPEN WHEN THE GENERATOR IS STARTED.
4. INSTALL ANTI-SYPHON AND FILTER VALVE IN FUEL OIL PIPING AFTER ENTRANCE TO BUILDING WHERE PIPE TURNS DOWN.
5. ROUTE CONTROL WIRING IN CONDUIT TO ALARM PANEL IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

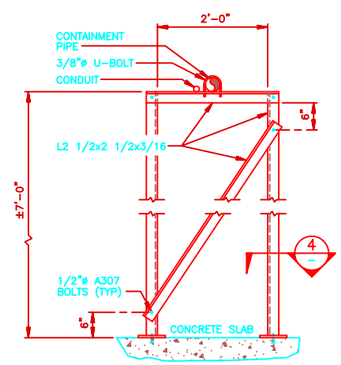
DIESEL DRIVEN GENERATOR/FUEL TANK PLAN
SCALE: 1/4"=1'-0"



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

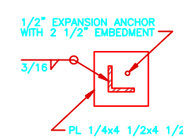


SECTION 2
SCALE: 1/4"=1'-0"



SECTION 3
SCALE: NONE

NOTE:
GALVANIZE ALL PIPE SUPPORT COMPONENTS



SECTION 4
SCALE: NONE

0 1' 2' 4' 6'
SCALE: 1/2"=1'-0"

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	FOR APPROVED	ACTR/CORR APPROVED	DESCRIPTION OF REVISION
1	06/17/94	WR	WR	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

WFO / NEXRAD PROGRAM
PROJECT NO. G001

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363009
SAN JUAN, P.R. 00936-3009

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

SEPO

DRAWN: L. LEON
CHECKED: W. RODRIGUEZ
SUP'V. ENGR: W. RODRIGUEZ
ENGR/PROJ. MGR: JL/TLS
ACCTR/CORR: EHM/RAR

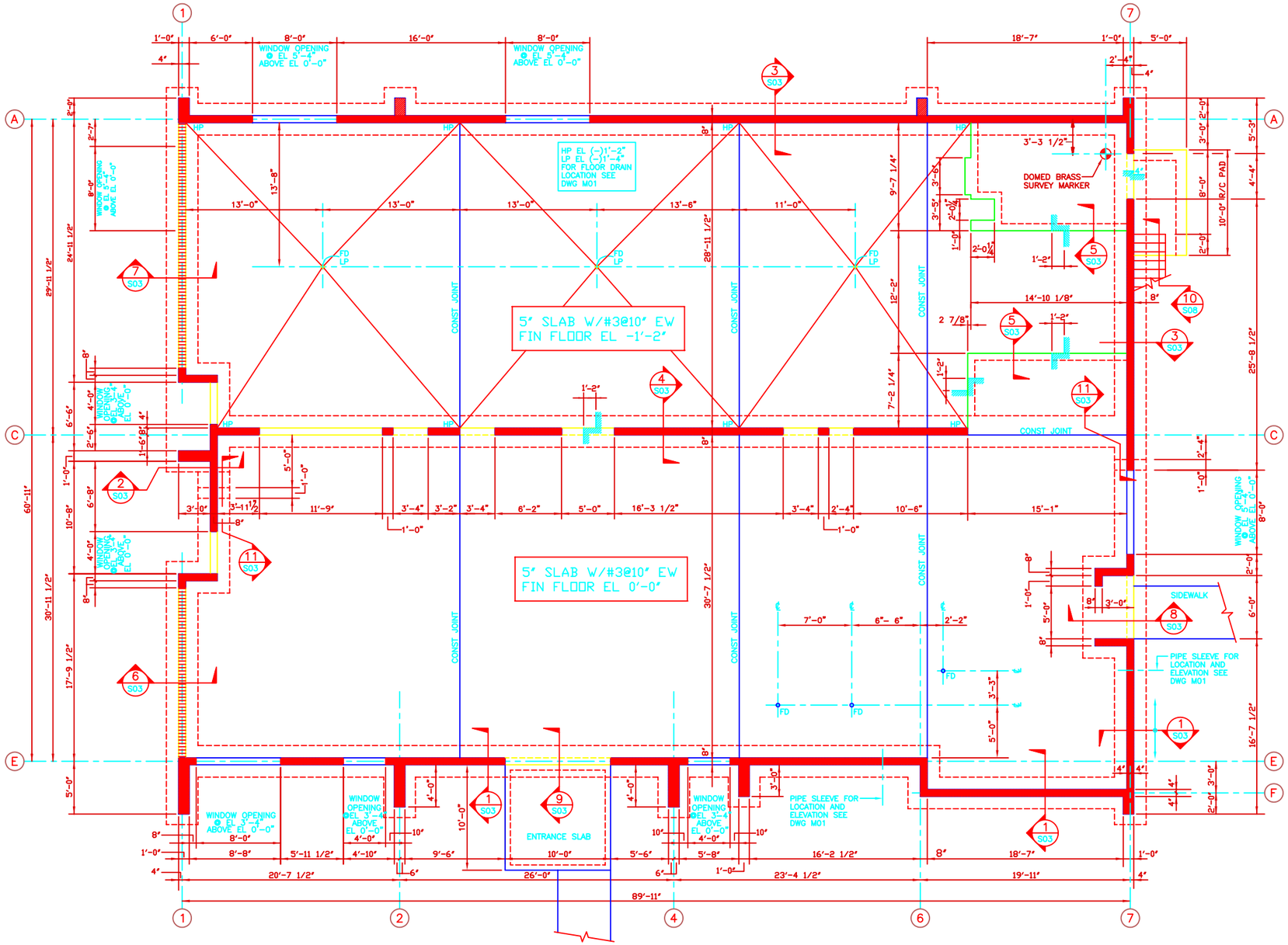
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

DIESEL DRIVEN GENERATOR AND FUEL TANK

449404-	SIZE 5	DWG. NO. M07	CLN. GO	REV. 1

FDSP0004 09/07/94 16:30 SJL 1/4=1' KCOAM071



FOUNDATION PLAN

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

BUILDING NORTH

GENERAL STRUCTURAL NOTES

1. ANY PROJECT SPECIFICATION THAT MAY SEEM IN CONFLICT WITH ANY DETAIL OR NOTE SHALL BE CLARIFIED WITH THE DESIGNER PRIOR TO CONSTRUCTION.
2. ALL CONSTRUCTION SHALL BE MADE IN ACCORDANCE WITH ALL PLANS, AND SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND NOTIFY TO THE DESIGNER, PRIOR TO CONSTRUCTION OF:
   A) ANY CONFLICTING DETAIL OR DISCREPANCY WITHIN THE PLANS.
   B) ANY DEPARTURE FROM NORMAL OR ASSUMED CONDITIONS.
   C) ANY DETRIMENTAL INTERFERENCE BETWEEN INSERTS, CONDUITS, OPENINGS AND ANY STRUCTURAL ELEMENTS.
3. THE LATEST REVISION, AT THE DATE OF THESE PLANS, SHALL BE TAKEN FOR ALL DESIGNATIONS AND SPECIFICATIONS HEREIN USED.
4. ALL DETAILING AND CONSTRUCTION SHALL CONFORM WITH ALL CODES AND MANUALS SET FORTH IN THE GENERAL SPECIFICATIONS.
5. WHEREVER SHOWN WITHOUT DETAILING, HOOKS SHALL BE CONSIDERED "STANDARD HOOKS" AS DEFINED BY ACI 318-89.
6. CONCRETE SHALL DEVELOP A MINIMUM STRENGTH OF 4000 PSI AT 28 FOR CONCRETE ROOF JOISTS AND 3000 PSI FOR FOUNDATIONS,WALLS AND COLUMNS.
7. ALL REINFORCEMENT TO BE INTERMEDIATE GRADE DEFORMED NEW BILLET STEEL BARS MEETING A.S.T.M. SPECIFICATIONS A-615, GRADE 60.
8. CLEAR CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS: 3" -FOOTINGS, COLUMNS AND BEAMS- 1 1/2", WALLS - 3/4" AND 1" AT EXTERIOR.
9. THE CONSTRUCTION PROCEDURES USED, FORMWORK REMOVAL, LOCATION OF CONSTRUCTION JOINTS, ETC. SHALL BE SUCH AS NOT TO IMPAIR THE DESIGN STRENGTH OF THE STRUCTURE.
10. ALL REINFORCING BARS AND STIRRUPS SHALL BE ACCURATELY PLACED AND SECURELY WIRED TO PREVENT DISLOCATION FROM PROPER POSITION. WHEN METAL CHAIRS ARE USED, THEIR LEGS SHALL BE PLASTIC TIPPED.
11. BEND AND OVERLAP 1'-0" MINIMUM ALL REINFORCEMENT AROUND CORNERS OF ALL INTERSECTING WALLS UNLESS OTHERWISE SHOWN.
12. MAIN OPENINGS ARE SHOWN IN THE STRUCTURAL PLANS; HOWEVER, FOR EXACT SIZE AND LOCATION OF ALL OPENINGS SEE REST OF PLANS.
13. ALL SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE IN PLACE BEFORE CONCRETE IS POURED.
14. UNLESS NOTED OTHERWISE, MINIMUM LENGTH OF LAP FOR TENSION LAP SPLICES SHALL BE AS FOLLOWS:

BAR SIZE	MINIMUM LENGTH (INCHES)
#3	15
#4	20
#5	26
#6	31

15. STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE A.S.T.M. A-36.
16. BOLTS SHALL BE 3/4" HIGH STRENGTH A.S.T.M. A-325N BEARING TYPE WITH THREADS INCLUDED IN SHEAR PLANES UNLESS NOTED OTHERWISE.
17. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY, AND SHALL DEVELOP THE STRENGTH OF THE WEAKER CONNECTING ELEMENTS.
18. ALL WELDING SHALL BE DONE WITH E-70 ELECTRODES.
19. SHOP DRAWINGS APPROVAL SHALL BE REQUIRED PRIOR TO FABRICATION.
20. ANCHOR BOLTS SHALL MEET A.S.T.M. A-36 SPECIFICATIONS.
21. CONTRACTOR TO COORDINATE PIPE OR CONDUIT PENETRATIONS THROUGH FOUNDATIONS WITH ELECTRICAL AND MECHANICAL DRAWINGS.
22. DOMED BRASS SURVEY SHALL BE CAST-IN-PLACE WITH SLAB. SEE SPECIFICATIONS SECTION 03300.
23. ALL MASONRY SHALL MEET A.S.T.M C-90 SPECIFICATIONS.
24. MORTAR SHALL BE TYPE S.
25. FOUNDATION DESIGN ARE BASED ON VAZQUEZ CASTILLO AND VAZQUEZ AGRAIT RECOMMENDATIONS OF AN ALLOWABLE NET SOIL BEARING CAPACITY OF 2500 PSF.
26. ALL FILL SHALL BE COMPACTED TO 95% OR GREATER OF MODIFIED PROCTOR COMPACTION TEST.
27. DESIGN LOADS:

ROOF LIVE LOADS - 40 PSF
GROUND FLOOR - 200 PSF
STAIRS - 100 PSF
WIND - PR BUILDING CODE
SEISMIC - ZONE III

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

NO.	DATE	PREPARED BY	CHECKED BY	PO APPROVED	ACEN/COTR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	A. RAMOS	R.FELICIANO	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITION

P.R. LICENCE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
PARTE NORTE
SAN JUAN, P.R. 00906-3020

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

DRAWN: L.TORRES
CHECKED: J.L.MEDAVILLA
SUP'V. ENGR.: R.FELANCIO
ENGR/ARCH. MGR.: JL/TLS
ACEN/COTR: EHM/RAR

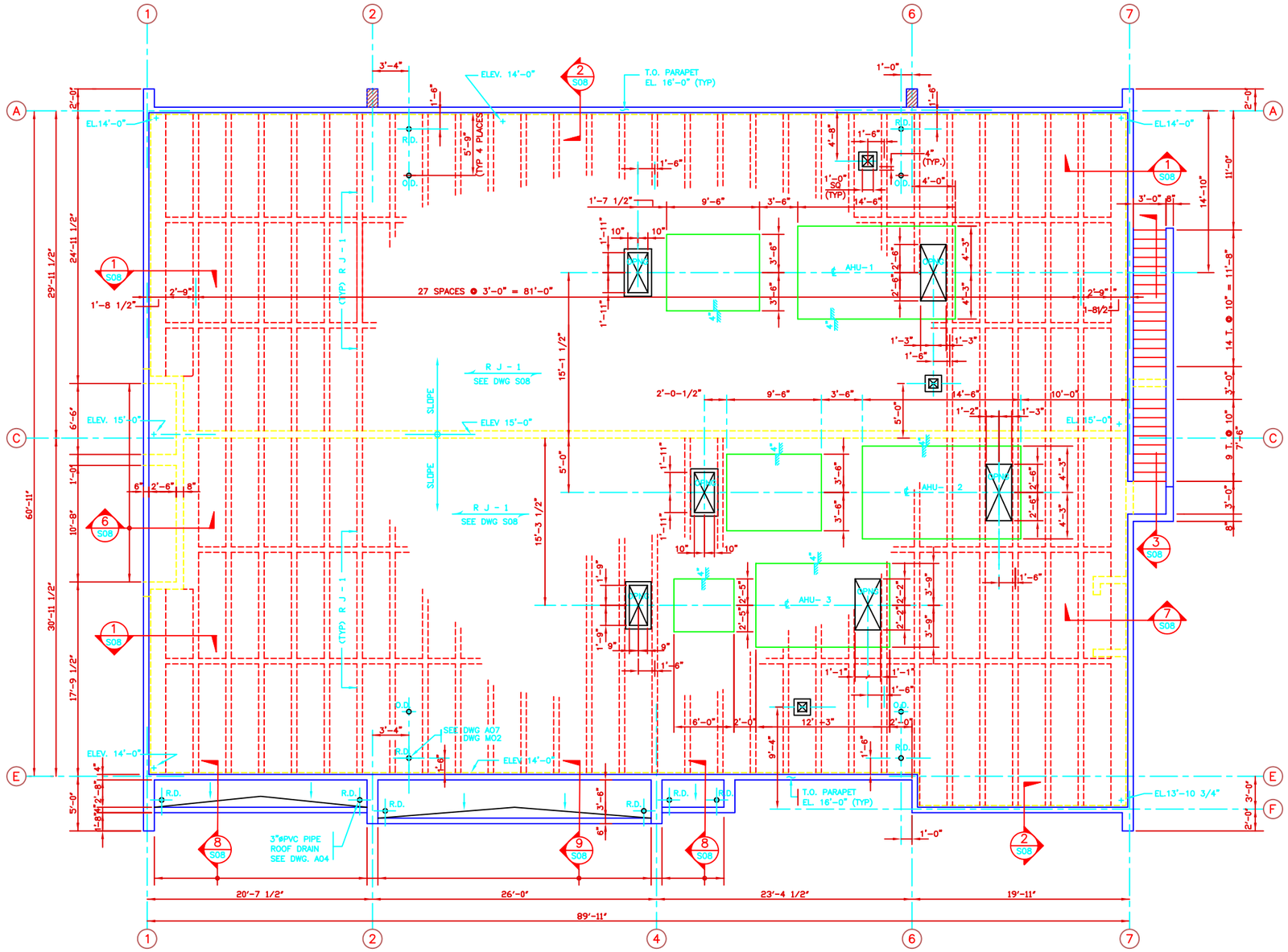
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

FOUNDATION PLAN

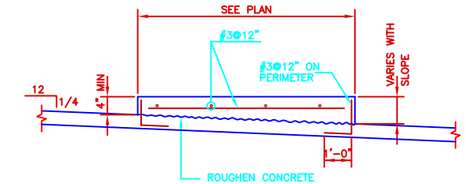
449404-	SIZE 5	DWG. NO. S01	CLIN. G0	REV. 1

FDSF0004 90

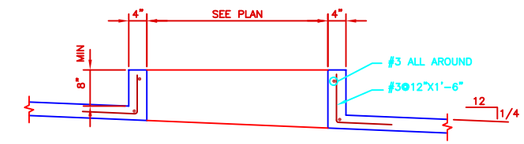


ROOF CONCRETE PLAN
SCALE: 1/4"=1'-0"

BUILDING NORTH



CONCRETE PAD-AHU 1,2 & 3
NOT TO SCALE



TYP CURB DETAIL
NOT TO SCALE

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	PM APPROVED	ACOR/COORD APPROVED	DESCRIPTION OF REVISION
1	6/17/94	A.RAMOS	R.FELICIANO	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. 0001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

P.R. LICENCE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
PARSON 562000
SAN JUAN, P.R. 00936-2000

DRAWN: L.TORRES
CHECKED: A.RAMOS
SUPV. ENGR: R.FELICIANO
ENGR/PROJ. MGR: JL/TLS
ACOR/COORD: EHM/RAR

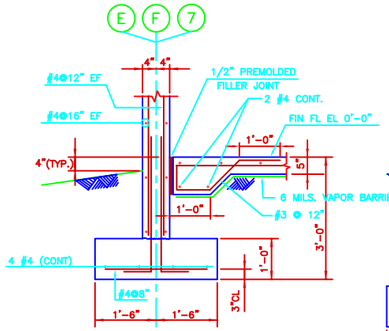
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

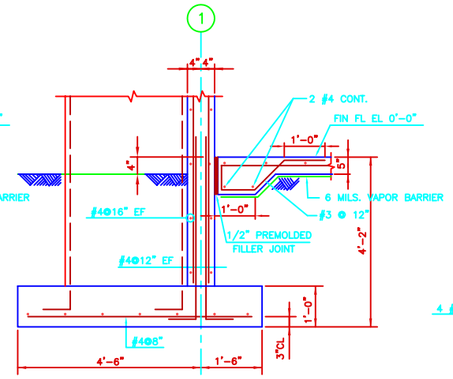
ROOF CONCRETE PLAN

449404-	SIZE 5	DWG. NO. S02	CLIN. GO	REV. 1

FDSP0004



SECTION 1 S01
SCALE: 3/4" = 1'-0"



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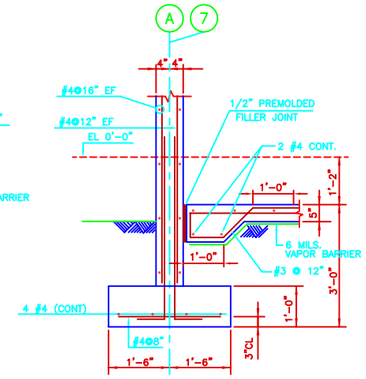

SECTION 3 S01
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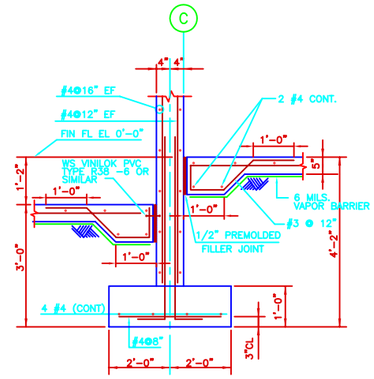

SECTION 4 S01
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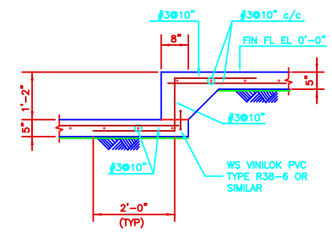

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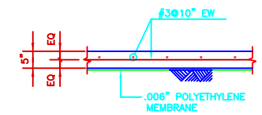
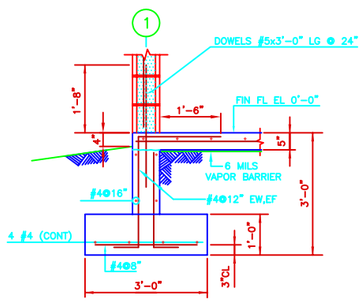
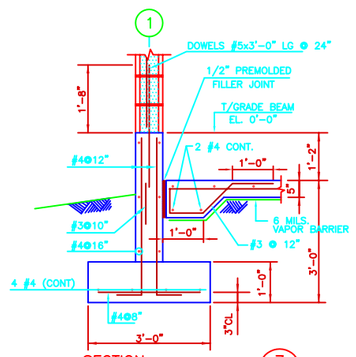


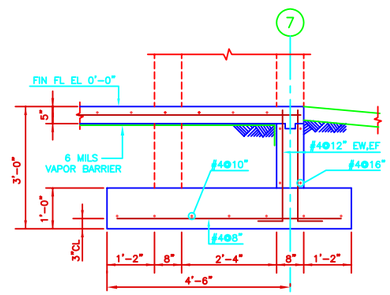
TYPICAL SLAB REINF DETAIL
SCALE: 3/4" = 1'-0"



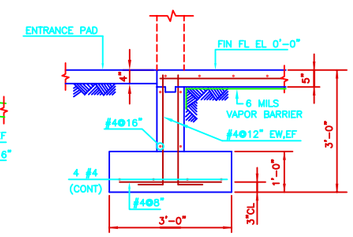
SECTION 6 S01
SCALE: 3/4" = 1'-0"



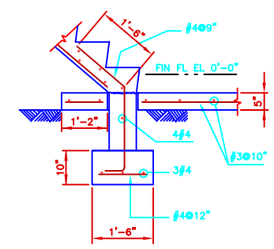
SECTION 7 S01
SCALE: 3/4" = 1'-0"



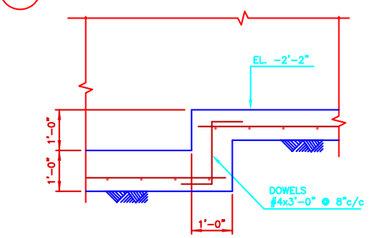
SECTION 8 S01
SCALE: 3/4" = 1'-0"



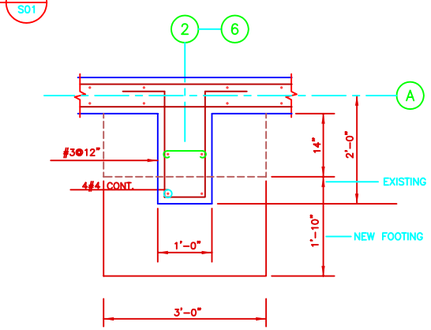
SECTION 9 S01
SCALE: 3/4" = 1'-0"



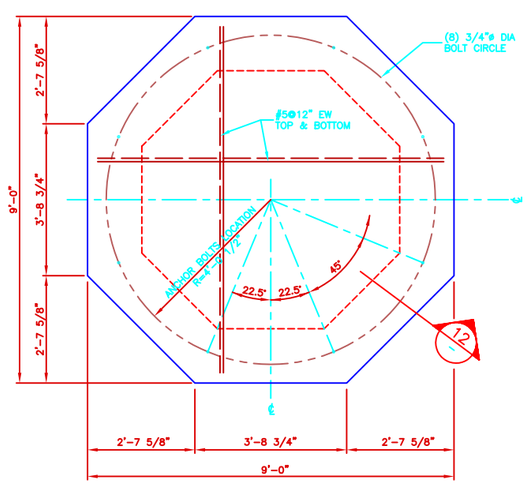
SECTION 10 S01
SCALE: 3/4" = 1'-0"



SECTION 11 S01
SCALE: 3/4" = 1'-0"

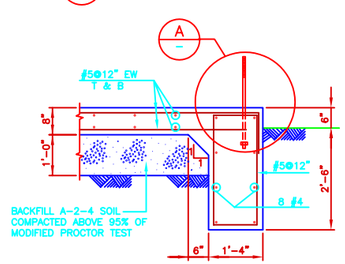


SECTION A S01
SCALE: 1/2" = 1'-0"

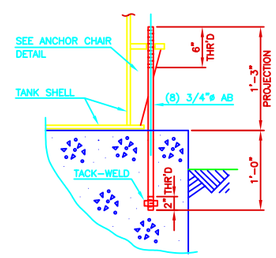


WATER TANK FOUNDATION PLAN
SCALE: 3/4" = 1'-0"

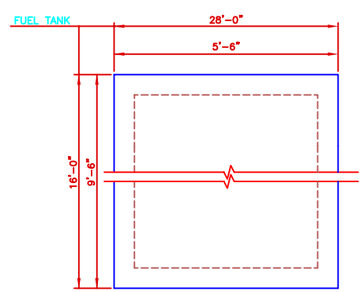
NOTE:
FOR ORIENTATION SEE VENDOR MECHANICAL SHOP DRAWINGS.



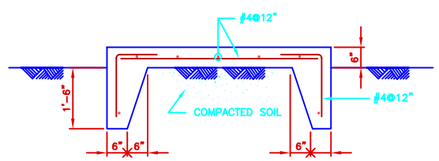
SECTION 12
SCALE: 3/4" = 1'-0"



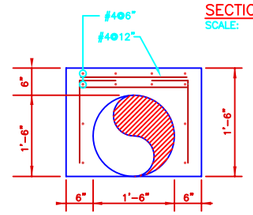
DETAIL A
SCALE: 1 1/2" = 1'-0"



BOOSTER PUMP AND FUEL TANK FOUNDATION PLAN



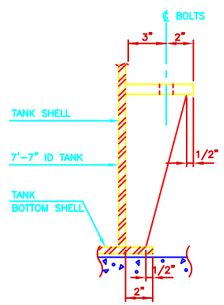
BOOSTER AND FUEL TANK FOUNDATION
SCALE: 3/4" = 1'-0"



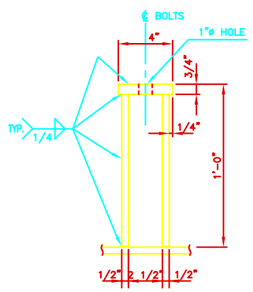
TYP. STORM SEWER CONC. PROTECTION

NOTE:
FOR ANCHOR BOLT SIZE & LOCATION SEE MECHANICAL SHOP DRAWING BY VENDOR

VERIFY PAD DIMENSIONS WITH VENDOR MECHANICAL SHOP DRAWINGS



FRONT VIEW



SIDE VIEW

ANCHOR CHAIR DETAIL
SCALE: 3" = 1'-0"

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

NO.	DATE	PREPARED BY	CHECKED BY	ITE APPROVED	ACOE/COTR APPROVED	DESCRIPTION OF REVISION
1	6/17/94	A.RAMOS	R.FELICIANO	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363009
SAN JUAN, P.R. 00936-3009

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

DRAWN L.TORRES
CHECKED A. RAMOS
SUP'V. ENGR. R.FELICIANO
ENGR/PROJ. MGR. JL/TLS
ACOE/COTR EHM/RAR

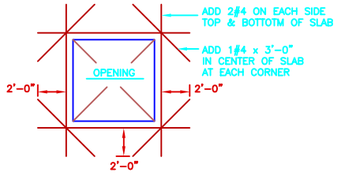
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
FOUNDATION SECTIONS AND DETAILS

SIZE	DWG. NO.	CLN.	REV.
5	S03	GO	1

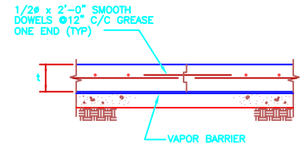
449404-

F3SP0004 09/09/94 15:00 SJL 3/4=1' KCOS031

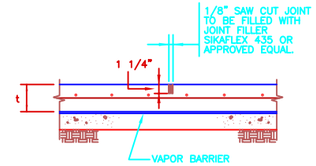


FOR OPENING LESS THAN 1'-0" SQUARE OMIT ADDED REINF & BEND SLAB STEEL AROUND

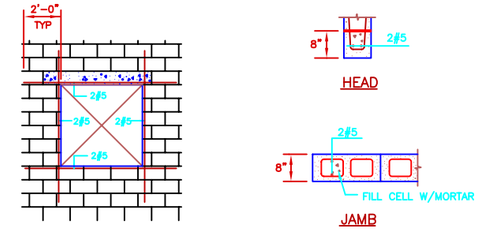
TYPICAL DETAIL OF ADDED REINF AT CONC SLAB OR WALLS OPNGS



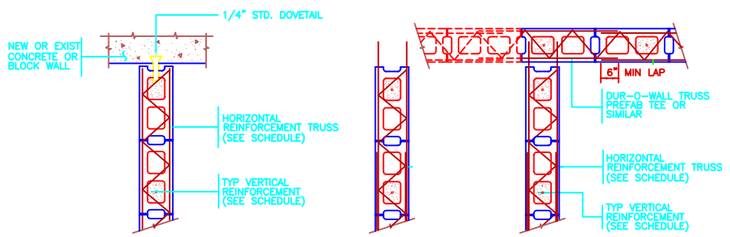
TYP CONSTRUCTION JOINT (JT-1)



TYP CONTROL JOINT (JT-2)



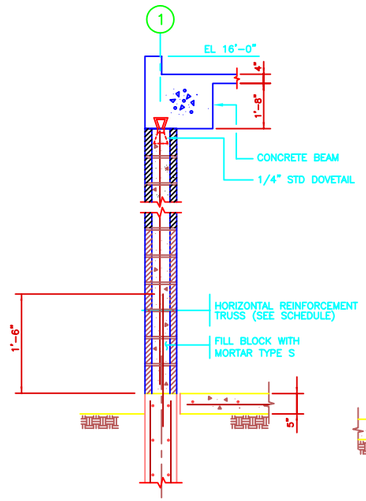
TYP WINDOW OPNG



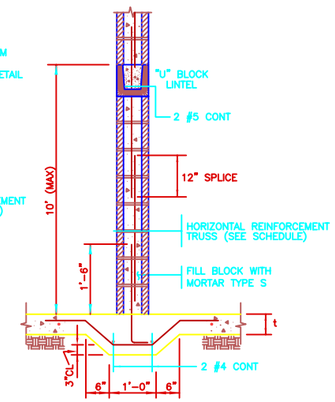
AT CONCRETE WALL OR COLUMN

AT END WALL

AT CORNER AND INTERSECTION



EXTERIOR BLOCK WALL

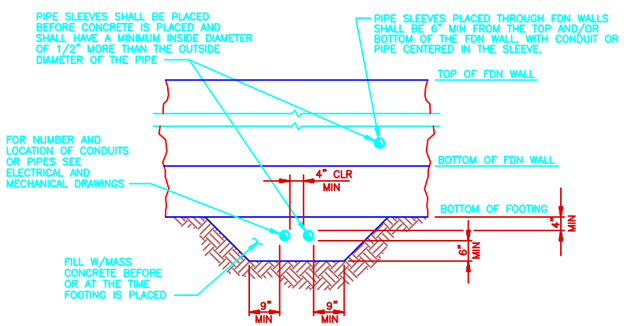


TYP CONCRETE BLOCK

TYP DETAILS FOR CONCRETE BLOCK WALL REINFORCEMENT

C M U NON BEARING WALL REINFORCEMENT SCHEDULE				
C M U t	HEIGHT	REINFORCEMENT VERTICAL	REINFORCEMENT HORIZONTAL DUR-O-WAL	REMARKS
6	0'-0" TO 8'-0"	#5@40"	EXTRA HEAVY 3/16"W @ 16"	EXTERIOR WALL
	8'-0" TO 10'-0"	#5@32"	"	"
	10'-0" TO 12'-0"	#5@24"	"	"
	0'-0" TO 12'-0"	#5@40"	"	INTERIOR WALL
8	0'-0" TO 8'-0"	#5@40"	EXTRA HEAVY 3/16"W @ 16"	EXTERIOR WALL
	8'-0" TO 12'-0"	#5@32"	"	"
	12'-0" TO 14'-0"	#5@24"	"	"
	14'-0" TO 16'-0"	#5@16"	"	"
	0'-0" TO 16'-0"	#5@40"	"	INTERIOR WALL

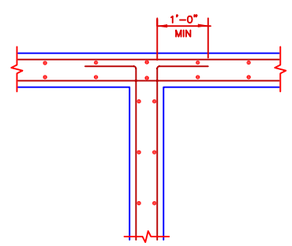
NOTE: USE SAME DIAM FOR VERT BAR AND DOWELS



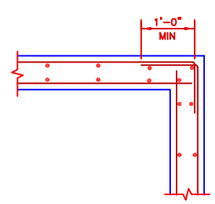
TYPICAL PIPE OR CONDUIT @ FOOTING DETAIL

SCALE: NONE

NOTE: IF CONDUIT OR PIPE IS BELOW FOOTING MORE THAN 3'-0" NO CONCRETE ENCASEMENT IS REQUIRED

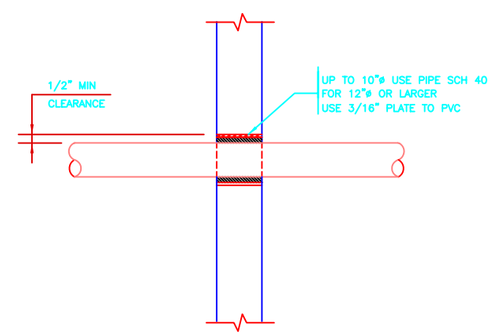


INTERSECTION DETAIL

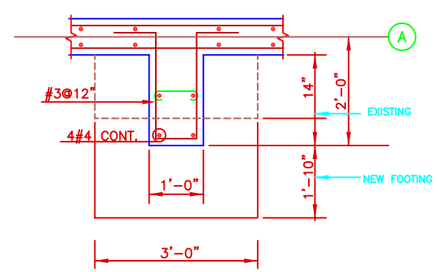


CORNER DETAIL

TYPICAL WALL REINF DETAILS



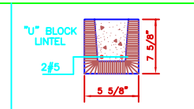
PIPE SLEEVE DETAIL



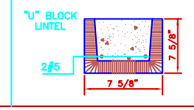
SECTION

0 8' 16' 32' 48'
SCALE: 1/16"=1'-0"

SCHEDULE OF MASONRY LINTELS FOR BLOCK WALLS



8'-0" MAX CLEAR SPAN REINF WITH 2 #4 BARS 8" BEARING EACH SIDE



8'-0" MAX CLEAR SPAN REINF WITH 2 #4 BARS 8" BEARING

NO.	DATE	PREPARED BY	CHECKED BY	FIS APPROVED	ACOS/CODES APPROVED	DESCRIPTION OF REVISION
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P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363300
SAN JUAN, P.R. 00936-3300

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
RIVERSIDE CITY, MO.
U.S.A.

WFO / NEXRAD PROGRAM
PROJECT NO. 0001

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

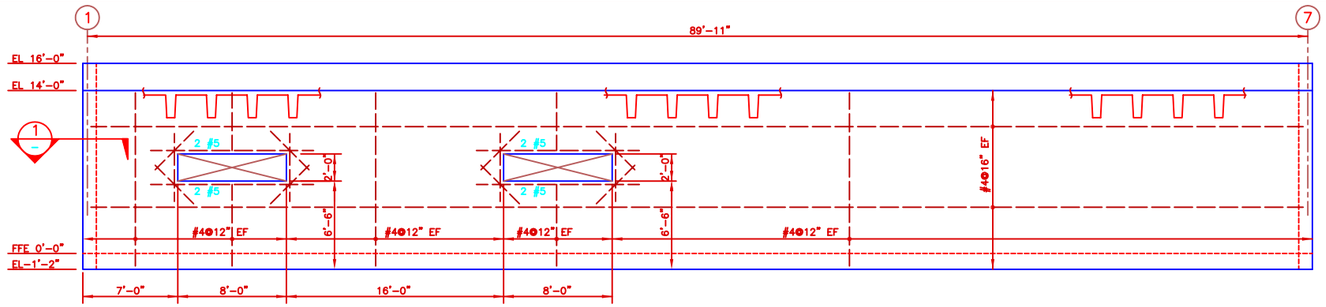
DRAWN L.TORRES
CHECKED A.RAMOS
SUP'V. ENGR. R.FELANCIO
ENGR/PROJ. MGR. JL/TLS
ACOS/CODES EHM/RAR

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

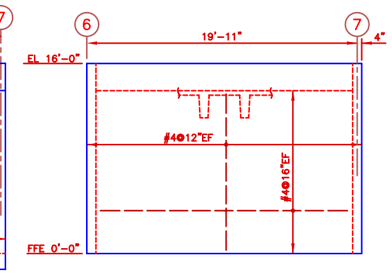
MISCELLANEOUS CONCRETE DETAILS

SIZE	DWG. NO.	CLM.	REV.
449404-	5	S05	GO	1

FDSP0004



ELEVATION @ LINE (A)
SCALE: 1/4"=1'-0"



ELEVATION @ LINE (F)
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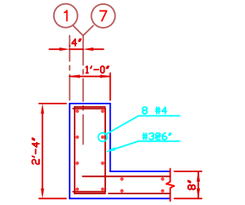

SECTION (1)
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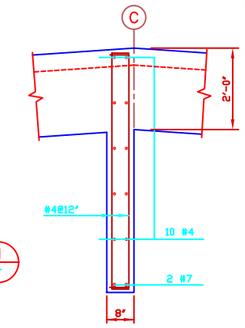

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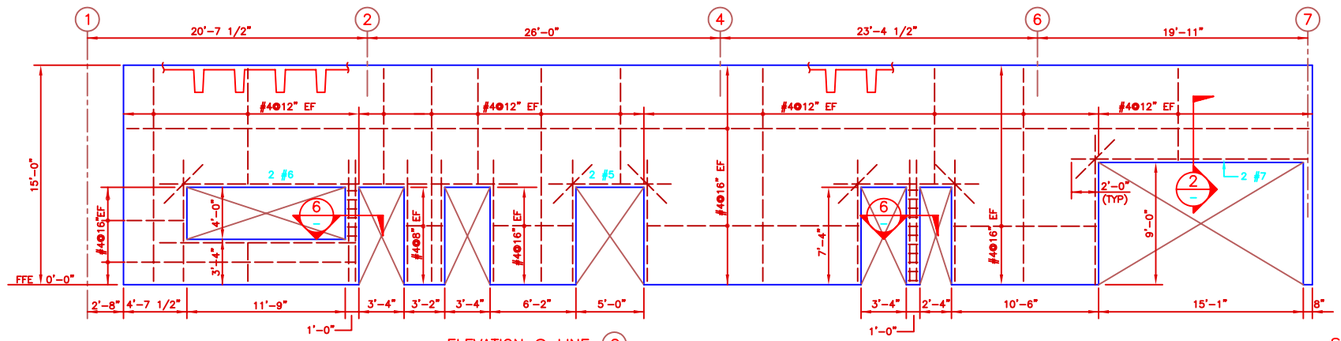
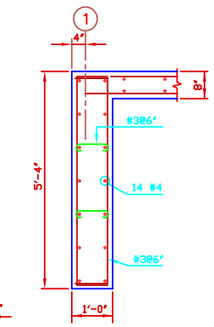
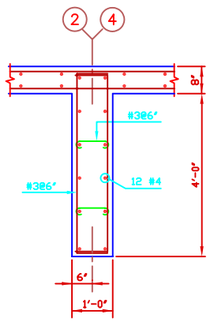


ELEVATION @ LINE (C)
SCALE: 1/4"=1'-0"



SECTION (3)
SCALE: 3/4"=1'-0"



SECTION (4)
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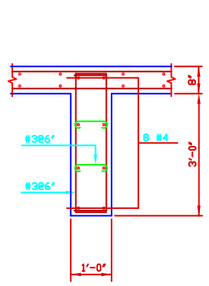
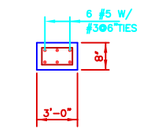


SECTION (5)
SCALE: 3/4"=1'-0"



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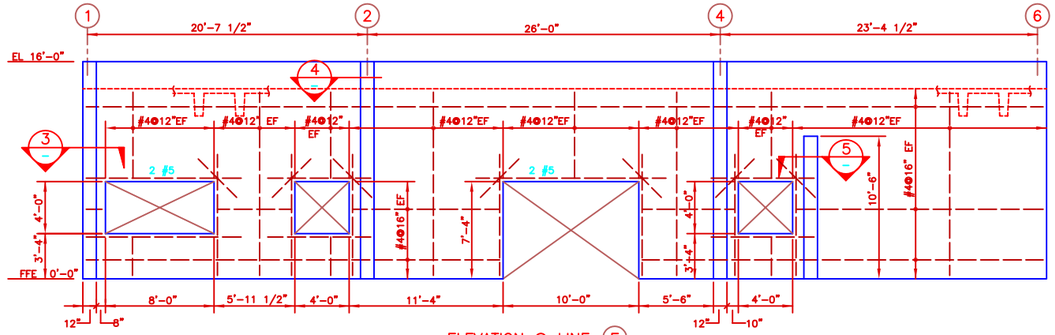
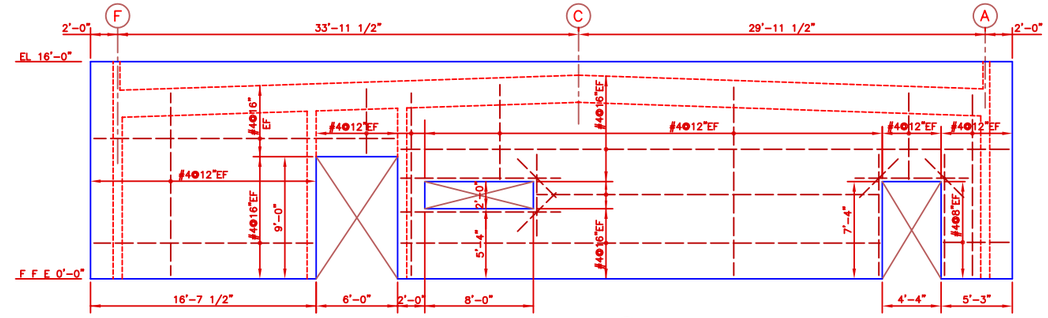
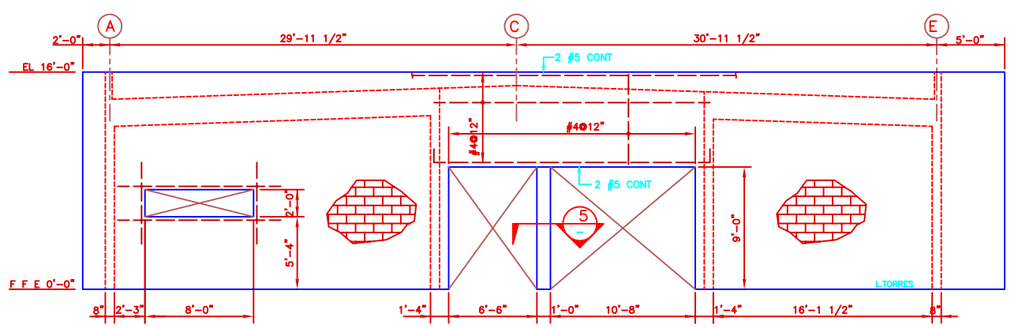
SCALE: 3/4"=1'-0"



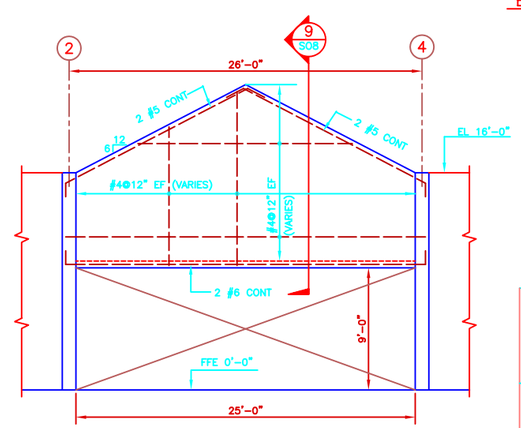
ELEVATION @ LINE (E)
SCALE: 1/4"=1'-0"



ELEVATION @ LINE (7)
SCALE: 1/4"=1'-0"



ELEVATION @ LINE (1)
SCALE: 1/4"=1'-0"



MAIN ENTRANCE ELEVATION
SCALE: 1/4"=1'-0"

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

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	AS APPROVED	ACOE/CCDS APPROVED	DESCRIPTION OF REVISION
1	6/17/94	A.RAMOS	F.ELANCIO	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN: L.TORRES
CHECKED: A.RAMOS
SUP'V. ENGR.: R.F.ELANCIO
ENGR/PROJ. MGR.: JL/TLS
ACOE/CCDS APPROVAL: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO.

WALL ELEVATIONS/
SECTIONS & DETAILS

PR LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
PADRÓN SKANSKI
SAN JUAN, P.R. 00902-3920

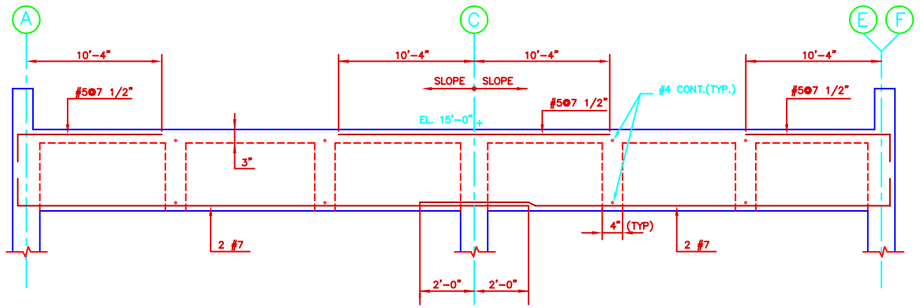
PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

SEPO

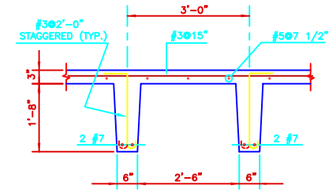
SIZE	DWG. NO.	CLIN.	REV.
5	S07	G0	1

449404-

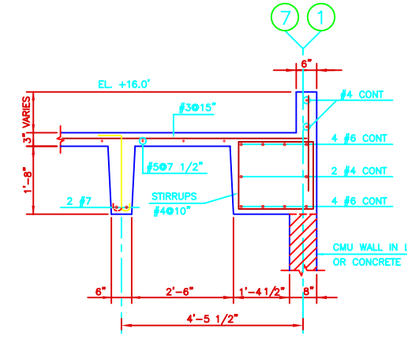
FDSP0004 90



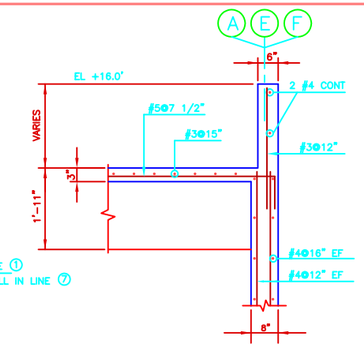
REINFORCED CONCRETE JOISTS (RJ-1)
NOT TO SCALE



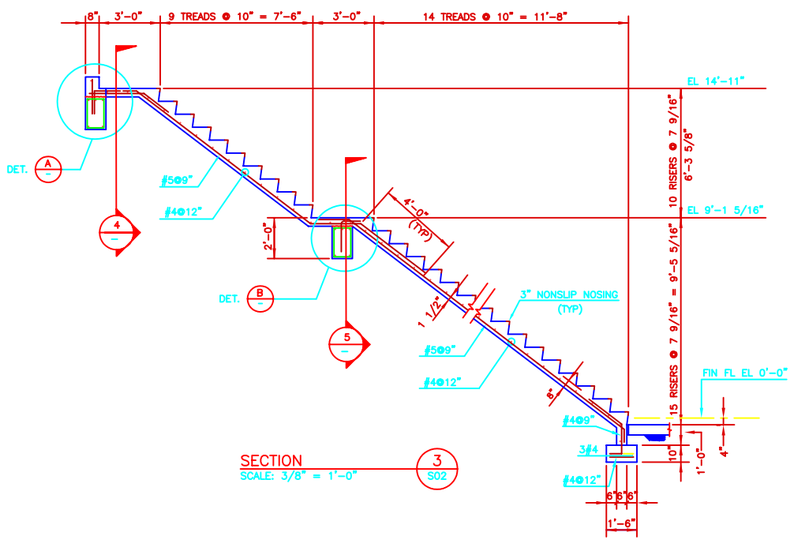
TYPICAL JOIST DETAIL
SCALE: 3/4" = 1'-0"



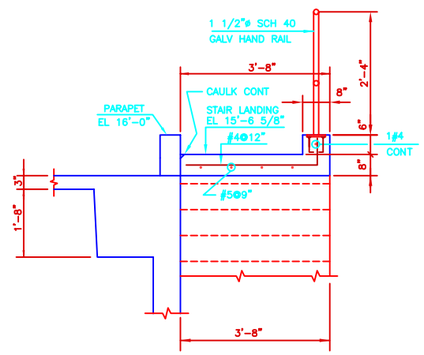
SECTION 1 S02
SCALE: 3/4" = 1'-0"



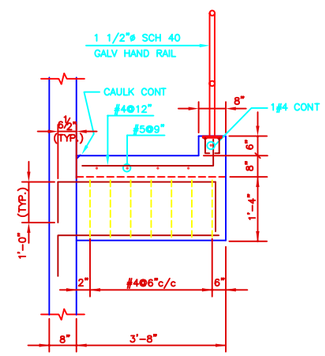
SECTION 2 S02
SCALE: 3/4" = 1'-0"



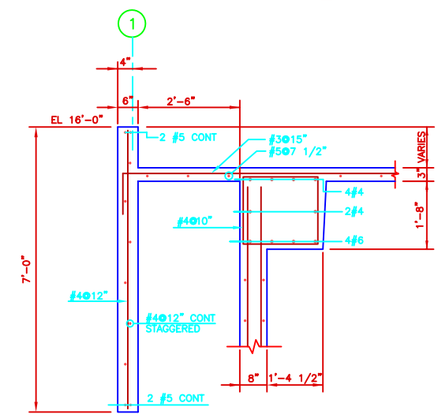
SECTION 3 S02
SCALE: 3/8" = 1'-0"



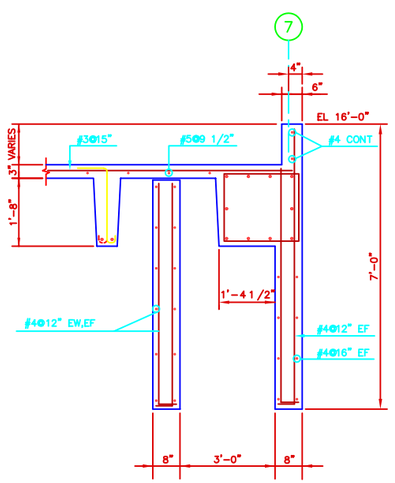
SECTION 4
SCALE: 3/4" = 1'-0"



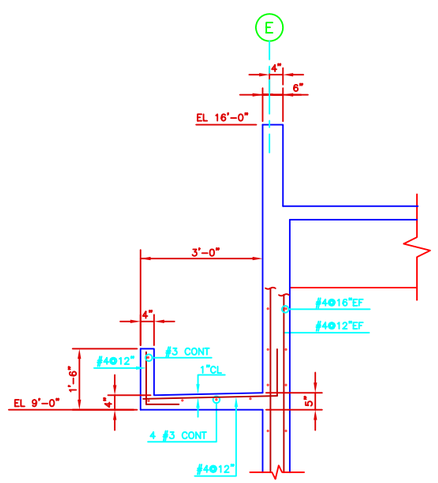
SECTION 5
SCALE: 3/4" = 1'-0"



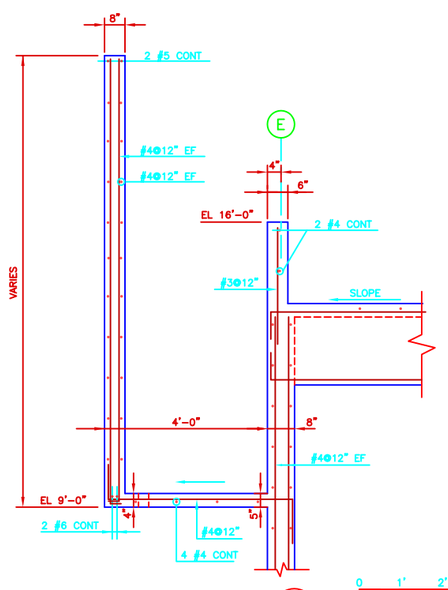
SECTION 6 S02
SCALE: 3/4" = 1'-0"



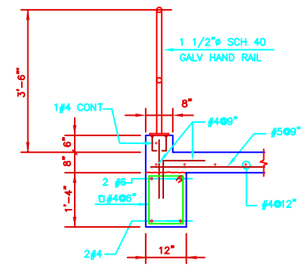
SECTION 7 S02
SCALE: 3/4" = 1'-0"



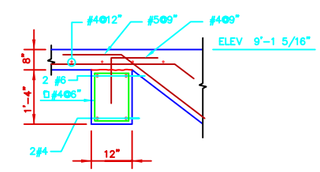
SECTION 8 S02
SCALE: 3/4" = 1'-0"



SECTION 9 S02
SCALE: 3/4" = 1'-0"



DETAIL A
SCALE: 3/4" = 1'-0"



DETAIL B
SCALE: 3/4" = 1'-0"

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

0 2' 4' 6' 8'
SCALE: 3/8"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	PE APPROVED	ACPE/CORP APPROVED	DESCRIPTION OF REVISION
1	6/17/94	A.RAMOS	R.FELICIANO	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

P.R. LICENSE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363000
SAN JUAN, P.R. 00936-3000

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

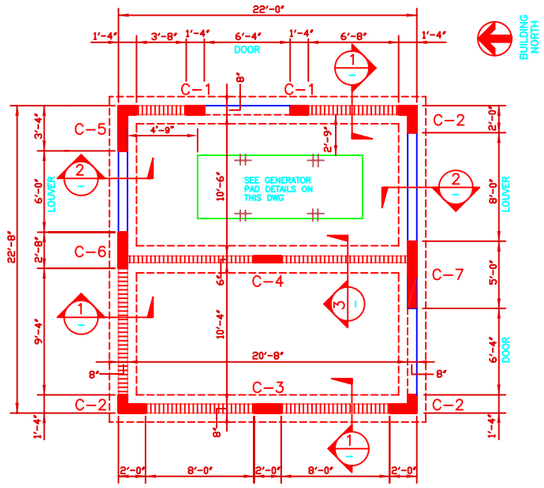
DRAWN: L.TORRES
CHECKED: A.RAMOS
SUP'V. ENGR.: R.F.LANCIO
ENGR/PROJ. MGR.: JL/TLS
ACCPL/CORP.: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

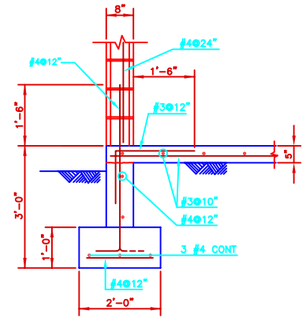
WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO
ROOF SECTIONS AND DETAILS

449404-	SIZE 5	DWG. NO. S08	CLIN. G0	REV. 1

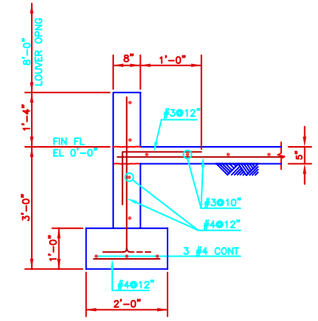
FDS90004
90



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



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



SECTION 2
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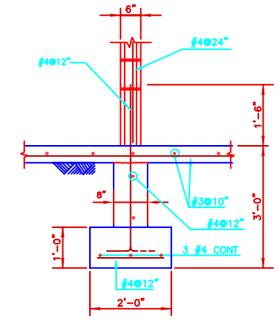

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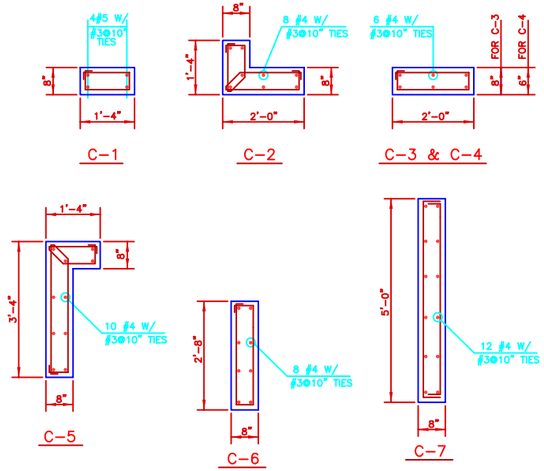
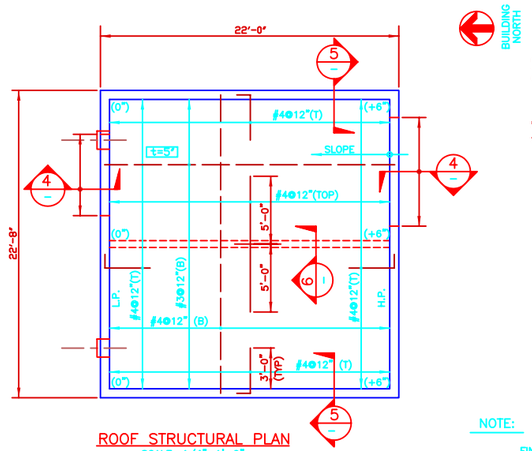


COLUMN DETAILS
SCALE: 3/4"=1'-0"

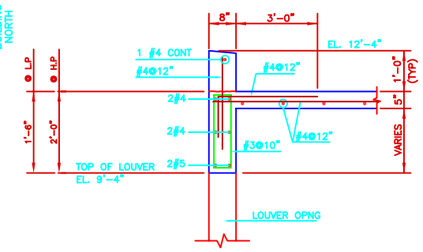


ROOF STRUCTURAL PLAN
SCALE: 1/4"=1'-0"

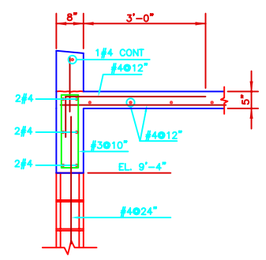
T/C ELEV @ L.P. 10'-10"
T/C ELEV @ H.P. 11'-4"

NOTE:

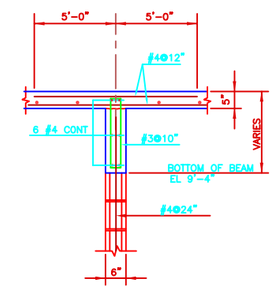
FINISHED FLOOR ELEVATION OF STORAGE BUILDING +0'-0" = +6.36'



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



SECTION 5
SCALE: 3/4" = 1'-0"



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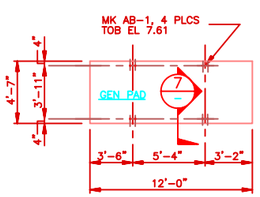
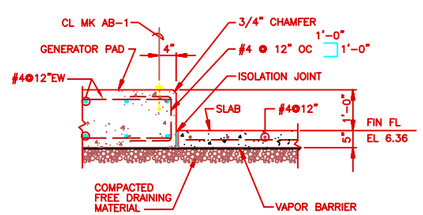
SCALE: 3/4" = 1'-0"

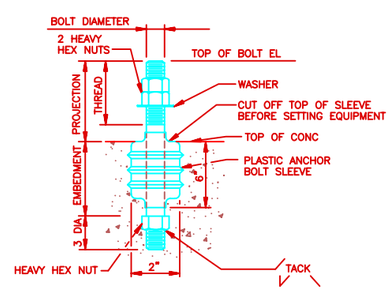


PLAN
SCALE: 1/4"=1'-0"



SECTION 7
SCALE: NONE

GENERATOR PAD DETAILS



TYPE I

ANCHOR BOLT DETAIL
SCALE: NONE

NOTE:

LOCATION AND SIZE OF ANCHOR BOLTS SHALL BE VERIFIED WITH SHOP DRAWINGS VENDOR

ANCHOR BOLT SCHEDULE											
MARK	LOCATION	NO	TYPE	TOP OF BOLT EL	PROJ	EMBED-MENT	AB DIAMETER	LENGTH	THREAD	PLATE	SLEEVE DIA	REMARKS
AB-1	DDG 175 KW	4	1	7.61	0'-3"	0'-10"	3/4"	–	0'-3"	–	–	GALVANIZE

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

0 2' 4' 8' 12'
SCALE: 1/4"=1'-0"

NO.	DATE	PREPARED BY	CHECKED BY	APPROVED BY	ACTS/CODE APPROVED	DESCRIPTION OF REVISION
1	6/17/94	A.RAMOS	R.FELICIANO	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

P.R. LICENSE SEAL

WFO / NEXRAD PROGRAM
PROJECT NO. G001

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO.
U.S.A.

CARIBBEAN ARCHITECTS & ENGINEERS
PASEO DORADO
SAN JUAN, P.R. 00901-2023

SEPO

DRAWN: L.TORRES
CHECKED: A.RAMOS
SUPV. ENGR.: R.FELANCIO
ENGR/PROJ. MGR.: JL/TLS
ACCPT/CODE APPROVED: EHM/RAR

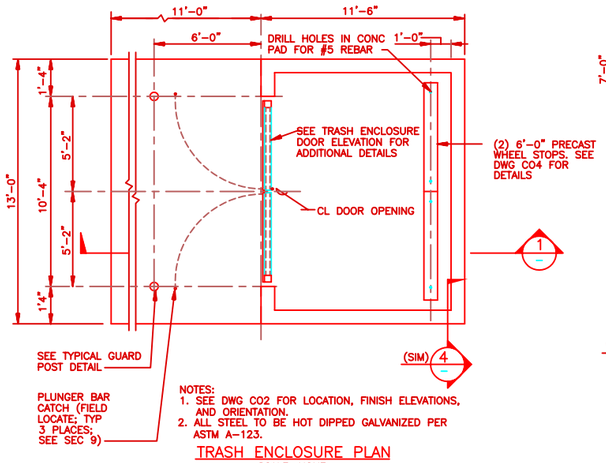
SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

DDG/STORAGE BUILDING
PLANS, SECTIONS & DETAILS

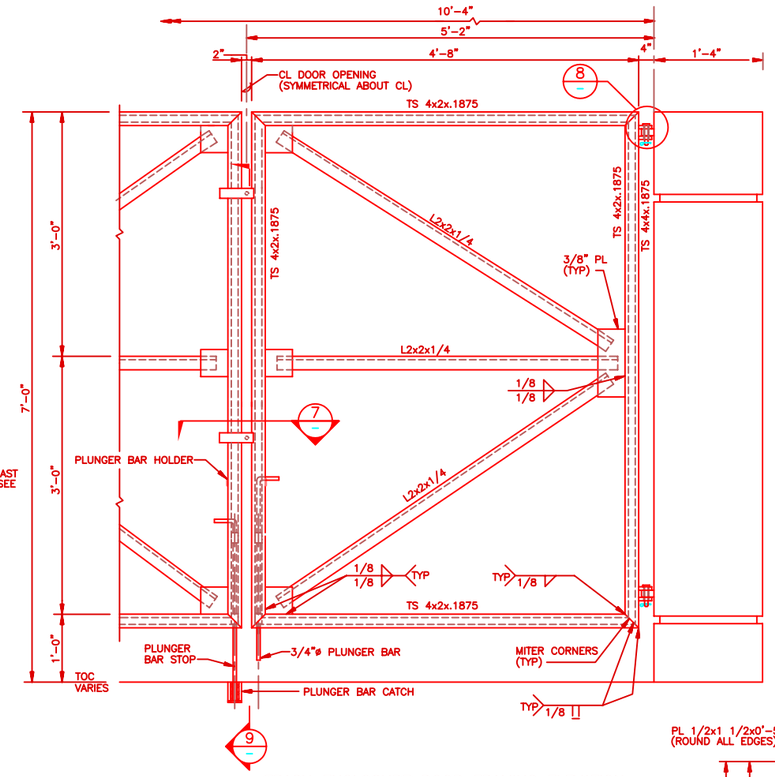
449404-	5	S11	GO	1
	SIZE	DWG. NO.	CLIN.	REV.

FDSP0004 09/08/94 15:47 SJL 3/4=1' GOS11

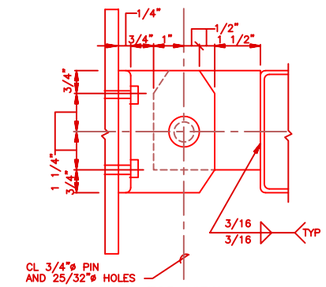


NOTES:
1. SEE DWG C02 FOR LOCATION, FINISH ELEVATIONS, AND ORIENTATION.
2. ALL STEEL TO BE HOT DIPPED GALVANIZED PER ASTM A-123.

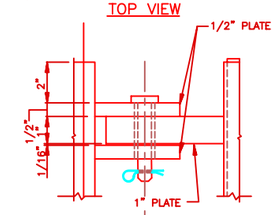
TRASH ENCLOSURE PLAN
SCALE: NONE



TRASH ENCLOSURE DOOR FRAMING ELEVATION
SCALE: NONE

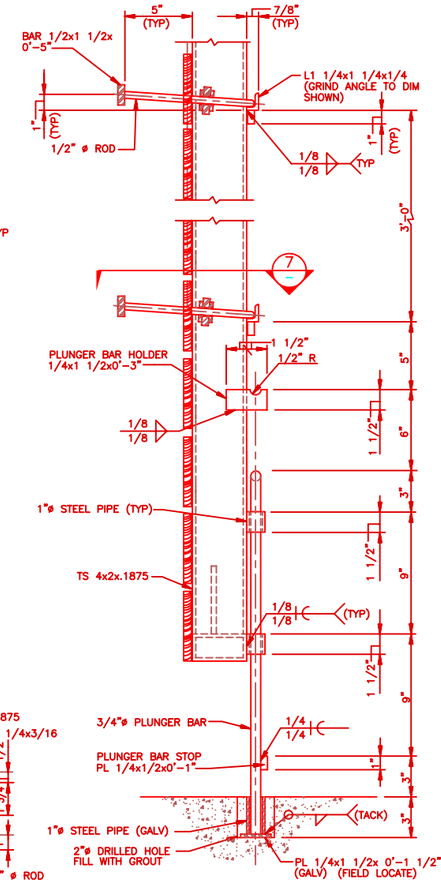


TOP VIEW

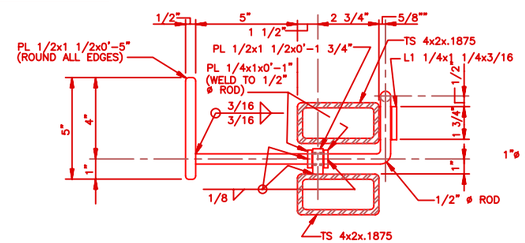


ELEVATION

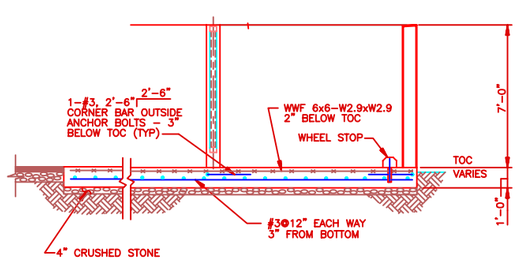
DETAIL 8
SCALE: NONE



SECTION 9
SCALE: NONE

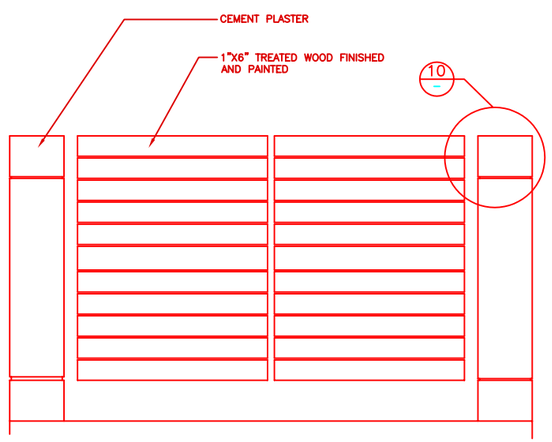


DETAIL 7
SCALE: NONE

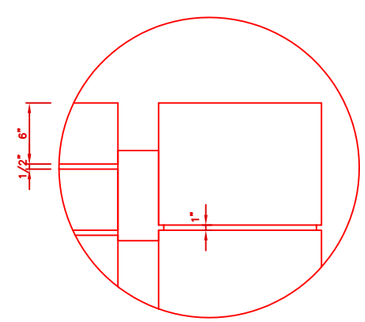


NOTE: ERECT FRAME LEVEL AND PLUMB

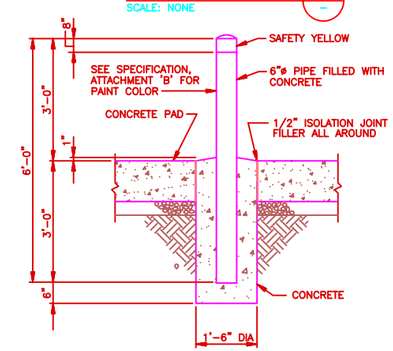
SECTION 1
SCALE: NONE



FRONT VIEW
SCALE: NONE



DETAIL 10
SCALE: NONE



NOTE:
GUARD POSTS SHALL BE FABRICATED FROM SCHEDULE 40 STEEL PIPE CONFORMING TO ASTM A53, GRADE B, TYPE E OR S.

TYPICAL GUARD POST DETAIL
SCALE: NONE

NO.	DATE	PREPARED BY	CHECKED BY	FIS APPROVED	ACTN/CODE APPROVED	DESCRIPTION OF REVISION
1	06/17/94	A. RAMOS	R.FELICIANO	JL/TLS	EHM/RAR	REVISED PER AS-BUILT CONDITIONS

WFO / NEXRAD PROGRAM
PROJECT NO. G001

DRAWN: L.TORRES
CHECKED: A.RAMOS
SUP'V. ENGR: R.FELICIANO
ENGR/PROJ. MGR: JL/TLS
ACTN/CODE: EHM/RAR

SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)

WEATHER FORECAST OFFICE
SAN JUAN, PUERTO RICO

TRASH ENCLOSURE
PLANS, SECTIONS & DETAILS

P.R. LICENCE SEAL

CARIBBEAN ARCHITECTS & ENGINEERS
P.O.BOX 363000
SAN JUAN, P.R. 00936-3000

PROGRAM MANAGEMENT SERVICES CONTRACTOR
FLUOR DANIEL
GOULD EVANS ARCHITECTS, P.A.
KANSAS CITY, MO. U.S.A.

SEPO

SIZE	DWG. NO.	CUST.	REV.
5	S13	GO	1

449404-

FDSP0004 09/09/94 15:50 SJL 3/8=1' KCOOS131