

GENERAL LEGEND

- GENERAL NOTE TAG - REFER TO "GENERAL NOTES" FOR EACH SHEET
- SPECIAL NOTE TAG - REFER TO "SPECIAL NOTES - THIS SHEET" ON EACH SHEET
- DEMOLITION NOTE TAG - REFER TO "DEMOLITION NOTES - THIS SHEET" FOR EACH SHEET
- NEW WORK NOTE TAG - REFER TO "NEW WORK NOTES - THIS SHEET" FOR EACH SHEET
- LIGHTING FIXTURE TYPE - SEE LIGHTING FIXTURE SCHEDULE

GENERAL NOTES

- SEE C-001 FOR CIVIL LEGEND AND ABBREVIATIONS, M-001 FOR MECHANICAL LEGEND AND ABBREVIATIONS AND G-003 GENERAL NOTES AND SEQUENCE OF CONSTRUCTION.
- NEW FEATURES ARE SHOWN USING A HEAVY LINE WEIGHT AND ARE DELINEATED WITH CONNECT TO EXISTING SYMBOLS. EXISTING FEATURES ARE SHOWN USING A LIGHT LINE WEIGHT SIMILAR TO THIS TEXT.
- ALL ELECTRICAL WORK AND MATERIAL IS NEW AND SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS INDICATED OTHERWISE.
- UNDERGROUND CIVIL AND MECHANICAL UTILITIES NOT SHOWN FOR CLARITY. SEE CIVIL AND MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
- UTILITY CONNECTIONS SHALL BE APPROVED IN ADVANCE.
- AN EQUIPMENT GROUND WIRE SHALL BE RUN WITH ALL FEEDERS AND BRANCH CIRCUITS.
- ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH 2014 NATIONAL ELECTRICAL CODE (NEC).
- ALL ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED AND LABELED. ALL FEEDERS/CIRCUITS SHALL BE IDENTIFIED AT EACH END OF THE WIRE AND AT EVERY SPLICE OR JUNCTION/PULL BOX.
- PROVIDE NAMEPLATES ON THE EXTERIOR OF ALL ELECTRICAL PANELS AND ENCLOSURES AS FOLLOWS:

PANEL LP1A 100A, 380Y/220-3Ø, 4W FEEDS FROM PANEL MDP INSTALLED 2010 DRAWING NO. 15,350	DEVICE I.D. DEVICE RATING POWER SOURCE INSTALLATION DATE PWC OR EFD DRAWING NUMBER
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FOR DISCONNECT SWITCHES AND MOTOR STARTERS THE TOP LINE SHALL BE THE NAME/DESIGNATION OF EQUIPMENT BEING FED BY SAME.

- PROVIDE TYPED DIRECTORIES FOR ALL PANELS (NEW OR EXISTING) INCLUDED IN THIS PROJECT.
- COORDINATE ELECTRICAL WORK WITH MECHANICAL AND FIRE PROTECTION WORK PRIOR TO FABRICATION AND INSTALLATION TO PREVENT CONFLICTS. NOTIFY CONTRACTING OFFICER WHERE CONFLICTS ARE DISCOVERED PRIOR TO CONSTRUCTION AND BEFORE BEGINNING WORK IN THOSE AREAS. ALL CONFLICTS THAT ARISE DUE TO LACK OF COORDINATION SHALL BE RECTIFIED BY THE CONTRACTOR AT NO COST TO THE GOVERNMENT.
- CONTRACTOR SHALL REPAIR/REPLACE BROKEN OR DAMAGED EXISTING EQUIPMENT WITH SAME TYPE AS REQUIRED.
- BRANCH CIRCUITS CONSIST OF 2-#12 & 1-#12 GROUND IN 21mm C, UNLESS OTHERWISE NOTED.

WIRING LOGIC

- SXXX-XX INDICATES POWER CIRCUIT. FOR WIRING, CONDUIT AND TERMINATIONS, SEE SCHEDULE ON E-606.
 CXXX-XX INDICATES CONTROL CIRCUIT. FOR WIRING, CONDUIT AND TERMINATIONS, SEE SCHEDULE ON E-607.
 ISXX-XX INDICATES INTRINSICALLY SAFE CIRCUIT. FOR WIRING, CONDUIT, AND TERMINATIONS, SEE SCHEDULE E-606.

DEMOLITION NOTES

- WORK SHALL BE SEQUENCED. SEE G-003 FOR SEQUENCE OF CONSTRUCTION.
- UNLESS OTHERWISE INDICATED, ALL EXISTING FUEL PIPING IS CARBON STEEL.
- DEFINITIONS
 - "DEMOLISH" - REMOVE IN ITS ENTIRETY.
 - "ABANDON IN PLACE" - CUT CONDUIT BELOW GRADE, CAP AND GROUT TO MATCH ADJACENT FINISH.

INTERIOR LEGEND

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| CONNECT TO EXISTING
GROUND ROD
THERMOSTAT
NEUTRAL BUS
EQUIPMENT GROUNDING BUS
AIR TERMINAL
LIGHTNING PROTECTION MAIN CONDUCTOR
LIGHTING FIXTURE, FLUORESCENT OR LED
MOTOR CONNECTION, KW AS INDICATED
DISCONNECT SWITCH, 380V IN NEMA 4XSS ENCLOSURE, UON, 3P = NO OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NON-FUSIBLE)
ELECTRICAL PANELBOARD (380Y/220 VOLT)
BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT, NO TICK MARKS INDICATES 2-#12 CONDUCTORS AND 1-#12 GND IN 21mm CONDUIT, UON. TICK MARKS, WHEN SHOWN INDICATE NUMBER OF #12 CONDUCTORS IF OTHER THAN THREE, (J) INDICATES #12 GND. CONDUIT LARGER THAN 21mm AND WIRE LARGER THAN #12 SHALL BE AS INDICATED
HOMERUNS TO PANEL. PANEL AND CIRCUIT DESIGNATIONS AS INDICATED
INDICATES A CONDUIT RUN CONCEALED IN CEILING, WALL, FLOOR, OR ABOVE SUSPENDED CEILING UON
CONDUIT TURNED UP
CONDUIT TURNED DOWN
CONDUIT SEAL
EMERGENCY LIGHT FIXTURE | DUPLEX CONVENIENCE RECEPTACLE, 16A, 220 VAC, MOUNT 450mm AFF, UON, GFI INDICATES GROUND FAULT PROTECTION BY CIRCUIT BREAKER, WP INDICATES WEATHERPROOF, EUROPEAN SCHUKO CEE 7 TYPE F
QUAD TELEPHONE DATA OUTLET, MOUNT 450mm AFF
SINGLE POLE SWITCH, 20A, 220/380V, UON
3 WAY SWITCH, 20A, 220/380V, WALL MOUNTED
WALL MOUNTED OCCUPANCY SENSOR, 20A, 220/380V
FLEXIBLE CONNECTION, CLASS I, DIVISION 1, GROUP D
EQUIPMENT CONNECTION AS NOTED
JUNCTION BOX
FLOW SWITCH
MOTORIZED DAMPER
EMERGENCY STOP DEVICE
LEVEL SWITCH, UON
LEVEL TRANSMITTER
SOLINOID VALVE
DIFFERENTIAL PRESSURE TRANSMITTER
PRESSURE SWITCH
TEMPERATURE ELEMENT
PHOTOCCELL
CONNECT TO EXISTING
EXIT LIGHT
LIGHT FIXTURE
HORN
STROBE |
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EXTERIOR LEGEND

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| UNDERGROUND DUCTBANK, CONCRETE ENCASED UON, DESCRIPTION AS INDICATED
EXISTING UNDERGROUND DUCTBANK, CONCRETE ENCASED UON, DESCRIPTION AS INDICATED
EXISTING UNDERGROUND PRIMARY CONDUIT
EXISTING UNDERGROUND SECONDARY CONDUIT
UNDERGROUND SECONDARY CONDUIT, DESCRIPTION AS INDICATED
UNDERGROUND CONTROL CONDUIT, DESCRIPTION AS INDICATED
GROUNDING CONDUCTOR, #4/0 BARE COPPER, UON
UNDERGROUND SITE LIGHTING CONDUIT, DESCRIPTION AS INDICATED
EXISTING GROUNDING CONDUCTOR
UNDERGROUND TELECOMMUNICATIONS CONDUIT, DESCRIPTION AS INDICATED
UNDERGROUND INTRINSICALLY SAFE SYSTEM
POLE MOUNTED LIGHT FIXTURE
HANDHOLE (TYPE 2), UNLESS OTHERWISE INDICATED. MH DESIGNATES MANHOLE, REFER TO PLATES ON E-703 | EXISTING MANHOLE OR HANDHOLE AS NOTED
DEMOLISH, SEE DEMOLITION NOTES
ABANDON IN PLACE, SEE DEMOLITION NOTES
INDICATES FRONT PAD MOUNTED TRANSFORMER
INDICATES FRONT EXISTING PAD MOUNTED TRANSFORMER
EXISTING PAD MOUNTED SWITCH
PAD MOUNTED SWITCH, 15 KV, 4 WAY, 200 AMP NON-FUSED, SF6 VACUUM
FLOOD LIGHT
DUCTBANK SECTION LOOKING IN DIRECTION OF ARROWS, SEE DUCT BANK
SPARE DUCT (TYP)
HEAVY LINE INDICATES BOTTOM OF DUCT
EXIST CABLE DESIGNATION (TYPICAL) DESCRIPTION PER CABLE SCHEDULE
OCCUPIED DUCT, UNIDENTIFIED CABLE
NEW CABLE DESIGNATION (TYPICAL) DESCRIPTION PER CABLE SCHEDULE ON E-606 |
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ONE-LINE DIAGRAM LEGEND

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| POWER TRANSFORMER, RATINGS AS INDICATED
SURGE ARRESTER, RATINGS AS INDICATED
DISCONNECT SWITCH
DELTA CONNECTION
GROUNDED WYE CONNECTION
CURRENT TRANSFORMER, SINGLE RATIO AS SHOWN
MEDIUM VOLTAGE CABLE TERMINATION
EXISTING MEDIUM VOLTAGE CABLE TERMINATION | GROUNDING ELECTRODE CONNECTION
MOLDED CASE CIRCUIT BREAKER, TYPE AND SIZE AS INDICATED
MOTOR CONNECTION, KW AS INDICATED
WATTHOUR METER WITH DEMAND REGISTER
CABLE OR BUS, TYPE AND CHARACTERISTICS AS INDICATED
FULL VOLTAGE NON-REVERSING STARTER
ELECTRONIC SOFT START STARTER |
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ELECTRICAL ABBREVIATIONS

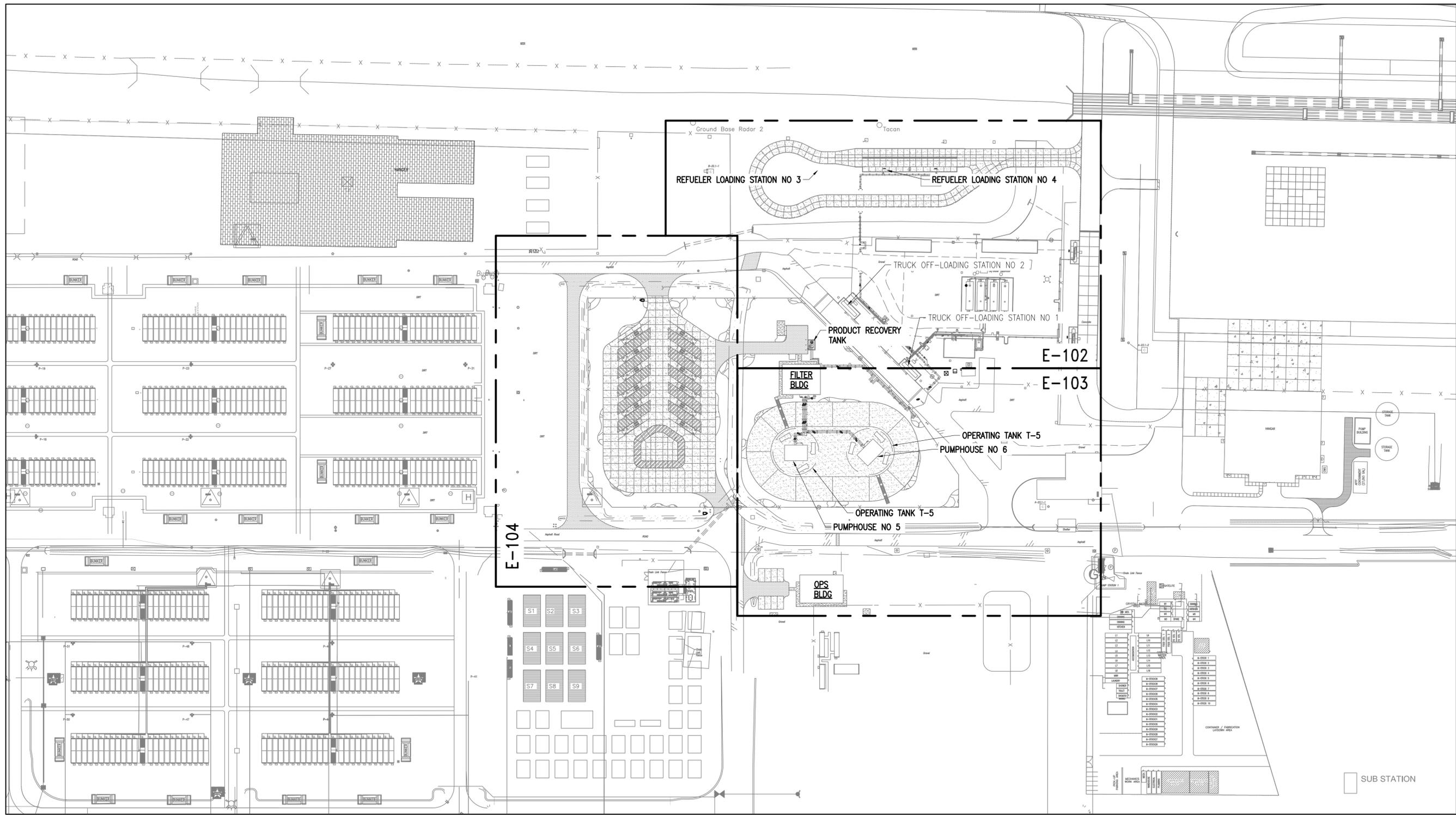
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| A AMP
ATG AUTOMATIC TANK GAUGE
ATS AUTOMATIC TRANSFER SWITCH BREAKER
BKR BREAKER
BBPCV ACKPRESSURE CONTROL VALVE
C CONDUIT OR CONDUCTOR
CB CIRCUIT BREAKER
CKT CIRCUIT
CONC CONCRETE
CONT CONTINUOUS
CPS CATHODIC PROTECTION SYSTEM
CU COPPER
CV CONTROL VALVE
DI DIGITAL INPUT
DIA DIAMETER
DO DIGITAL OUTPUT
DWG DRAWING
EFD ENGINEERING FIELD DIVISION
ELEV ELEVATION
EPR ETHYLENE PROPYLENE RUBBER EQUIPMENT
ESD EMERGENCY STOP DEVICE
EXIST EXISTING
FOIP FIBER OPTIC INTERFACE PANEL
FS FLOW SWITCH
FVNR FULL VOLTAGE NON-REVERSING GROUND
GFI GROUND FAULT INTERRUPTER
HH HANDHOLE
HOA HAND-OFF-AUTOMATIC
HSS HOLLOW STEEL SECTION
HV HIGH VOLTAGE
KCMIL THOUSAND CIRCULAR MIL
KV KILOVOLT
KVA KILOVOLT AMP
KW KILOWATT
LTS LIGHTS
LV LOW VOLTAGE
M METER
MCCB MOLDED CASE CIRCUIT BREAKER
MAX MAXIMUM
MH MANHOLE
MIN MINIMUM
mm MILLIMETER
MCC MOTOR CONTROL CENTER | MLO MAIN LUG ONLY
MOV MOTOR OPERATED VALVE
N NEUTRAL
NC NORMALLY CLOSED
NEC NATIONAL ELECTRICAL CODE
NEUT NEUTRAL
NO NORMALLY OPEN OR NUMBER
OC ON CENTER
OCPD OVER CIRCUIT PROTECTING DEVICE
OLS OVER LOAD RELAY
PB PUSH BUTTON
PCP PUMP CONTROL PANEL
PLC PROGRAMMABLE LOGIC CONTROLLER
PLCS PLACES
PNL PANEL
PNLBD PANELBOARD
POT POINT OF TANGENT
PVC POLYVINYL CHLORIDE
PWC PUBLIC WORKS CENTER
Ø PHASE OR DIAMETER
RECEPT RECEPTACLE
RECIRC RECIRCULATION
REQD REQUIRED
RVSS REDUCED VOLTAGE SOFT START
SCHED SCHEDULE
SPEC SPECIFIED
SPD SOURCE PROTECTING DEVICE
SS STAINLESS STEEL
STA STATION
SW SWITCH
TYP TYPICAL
UC UNDERGROUND CONTROL CONDUIT
UL UNDERWRITERS LABORATORIES
UP UNDERGROUND MEDIUM VOLTAGE CONDUIT
US UNDERGROUND LOW VOLTAGE CONDUIT
USL UNDERGROUND SITE LIGHTING CONDUIT
UT UNDERGROUND TELEPHONE CONDUIT
UNLESS OTHERWISE NOTED
V VOLT
W WATT OR WIRE
WITH WITH
WHD WATTHOUR METER WITH DEMAND REGISTER
WP WEATHERPROOF
XFMR TRANSFORMER
XP EXPLOSIONPROOF |
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WIRING LEGEND

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| HAND-OFF-AUTOMATIC SELECTION SWITCH
MOTOR THERMOSTAT CONTACT
EMERGENCY STOP MUSHROOM HEAD PUSH BUTTON
PUSH BUTTON, NORMALLY OPEN, MOMENTARY CONTACT
TIME DELAY CONTACT, NORMALLY CLOSED, TIMED OPEN
FLOW SWITCH, CLOSE ON FLOW
FLOW SWITCH, OPEN ON FLOW
FLOAT SWITCH, OPEN ON RISE | FLOAT SWITCH, CLOSE ON RISE
NORMALLY OPEN CONTACT WITH REFERENCE
NORMALLY CLOSED CONTACT WITH REFERENCE
PILOT LIGHT, R=RED, G=GREEN
RELAY, CONTACTOR OR MOTOR STARTER COIL WITH REFERENCE
PHOTOCCELL
FIELD WIRING
FUSE
HEATER COIL
NORMALLY OPEN TIMED OPEN
NORMALLY OPEN TIMED CLOSED |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

APPR	DATE
SYN	DESCRIPTION
Austin Brockenbrough ENGINEERING - CONSULTING	
APPROVED	A/E INFO
FOR COMMANDER NAVFAC	
ACTIVITY	
EMAIL BY ANDREA LEMON	
SATISFACTORY TO	DATE 04/04/2016
DES RJK	DRW WMC
CHK CHM	LET/RER
BRANCH MANAGER	
CHIEF ENG/ARCH	EJG
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CAMP LEMONIER NAVFAC LANT/COM Atlantic NORFOLK, VIRGINIA DUBOULT AFRICA DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES ABBREVIATIONS, LEGEND AND NOTES	
SCALE:	AS NOTED
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO.:	14047115
SHEET	151 OF 186
E-001	
DRAWING REVISION: 10 MARCH 2009	

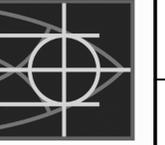
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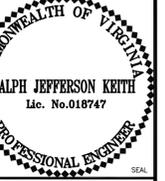
PLAN NORTH
KEY PLAN
SCALE: 1:1000



SYN	DESCRIPTION	DATE	APPR



NAVAC



PROFESSIONAL ENGINEER

Austin Brockenbrough
ENGINEERING - CONSULTING

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES: RJK | DRW: WMG | CHK: CHM

BRANCH MANAGER

CHIEF ENG/ARCH

<<<<<<>>

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

CAMP LEMONNIER

NAVFAC DRAWING NO. 14047116

PROJECT NO.:

WORK ORDER NO.

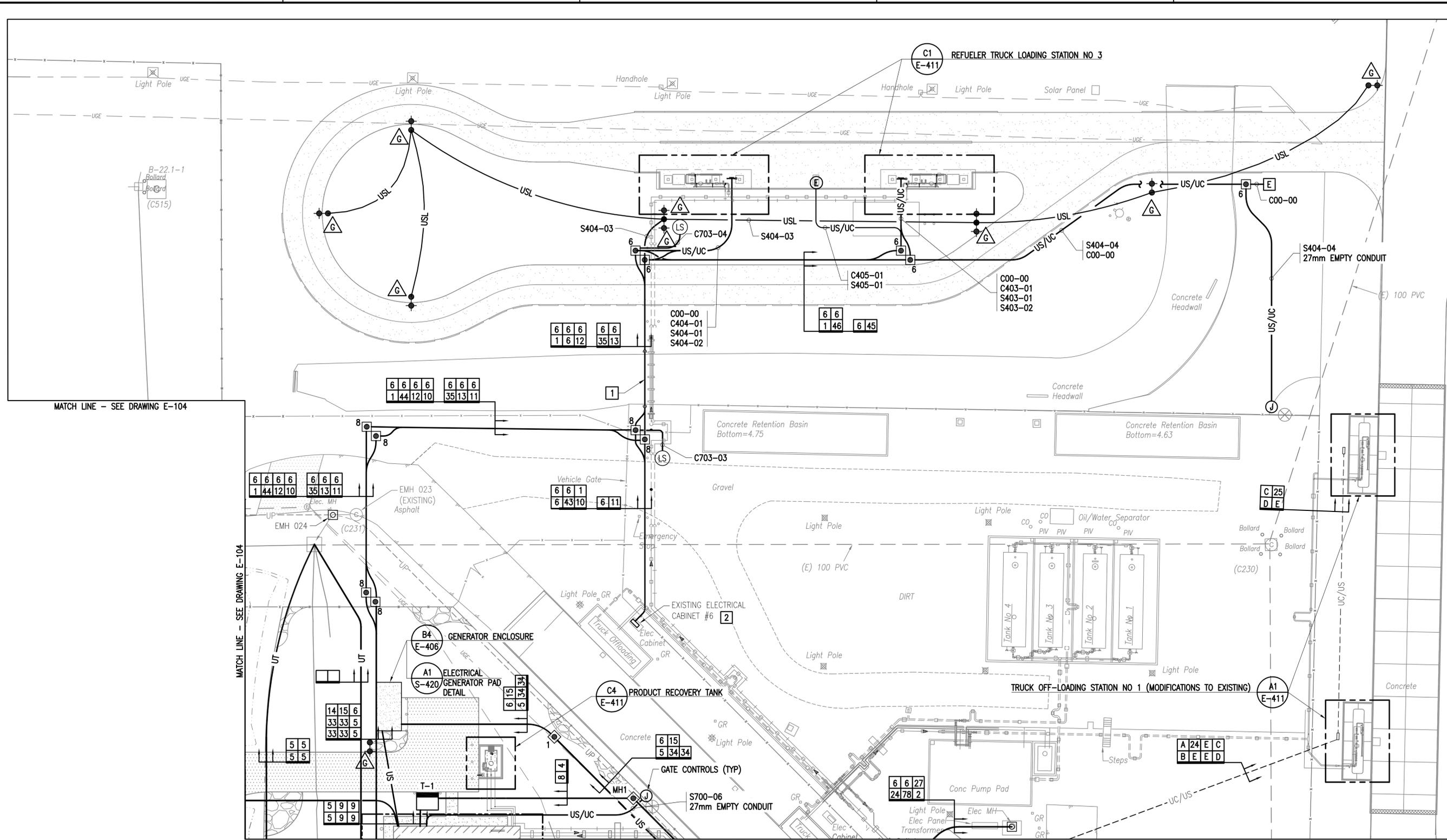
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SHEET 152 OF 186

E-101

DRAWING REVISION: 10 MARCH 2009

FILE NAME: G:\14 Jobs\14-013 Dhh\air - NAVFAC LANT\CAD AutoCAD\VE-102 PARTIAL SITE PLAN.dwg LAYOUT NAME: PARTIAL SITE PLAN PLOTTED: Thursday, March 31, 2016 - 11:36am USER: wherrmann



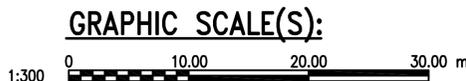
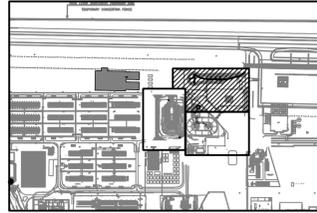
MATCH LINE - SEE DRAWING E-104

MATCH LINE - SEE DRAWING E-104

MATCH LINE - SEE DRAWING E-103

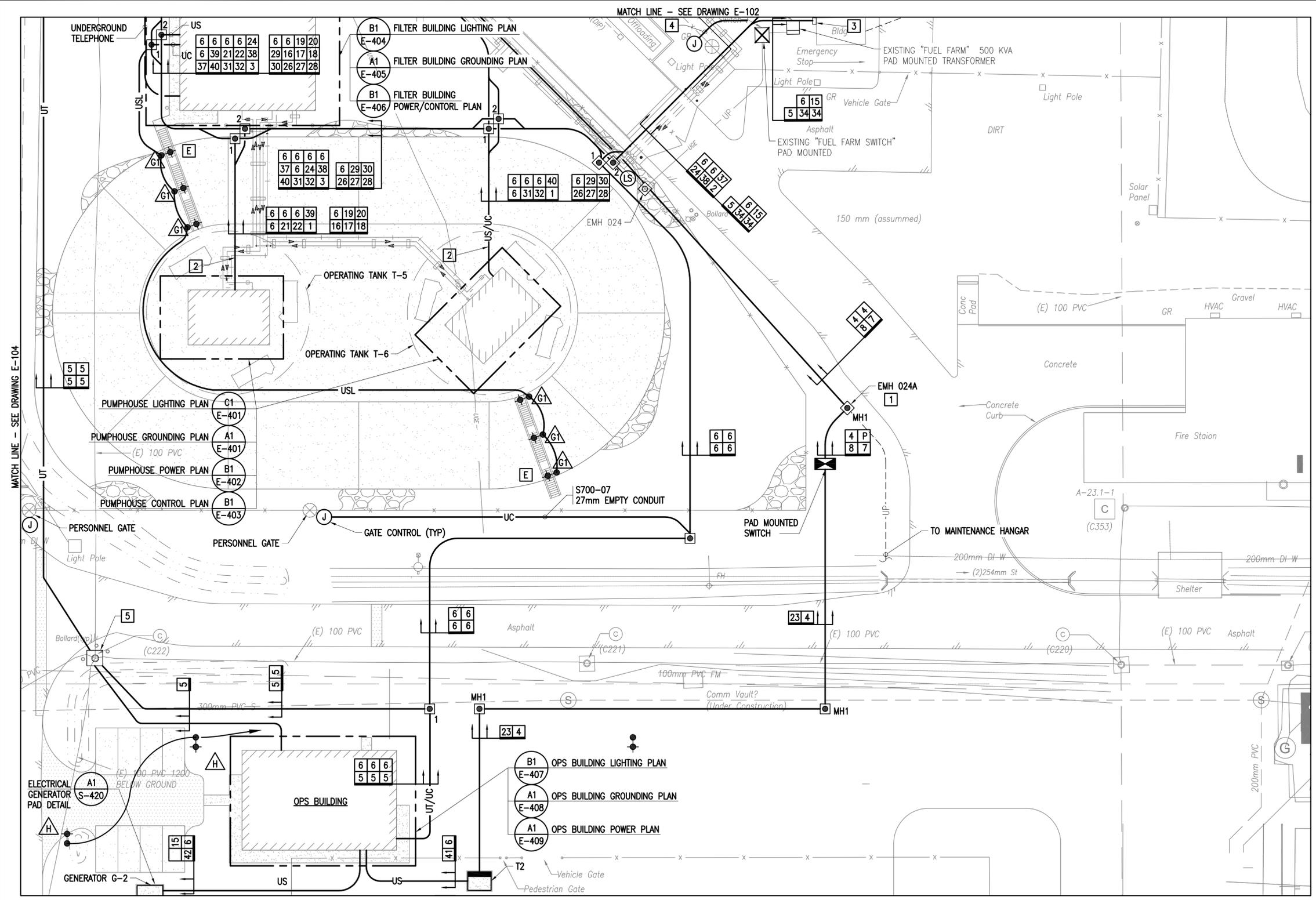
NEW WORK NOTES - THIS SHEET:

1. USE FUEL PIPING BRIDGE TO CROSS DRAINAGE DITCH.
2. SEE DETAIL E-502 FOR WIRING CONNECTIONS IN ELECTRICAL CABINET 6.



APPROVED	DATE	APP'R
SYN	DESCRIPTION	DATE
APPROVED	A/E INFO	
FOR COMMANDER NAVFAC	ACTIVITY	
SATISFACTORY TO	DATE	
DES: RJK	DRW: WMC	CHK: CHM
<<PM/DR>>		
BRANCH MANAGER		
CHIEF ENG/ARCH		
<<CR>>		
NAVAL FACILITIES ENGINEERING COMMAND	NAVFAC	
NAVAL FACILITIES ENGINEERING COMMAND	NAVFAC	
ATLANTIC DIVISION	CAMP LEMONNIER	
DUBOULT, VIRGINIA	DUBOULT, AFRICA	
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES PARTIAL SITE PLAN		
SCALE:	AS NOTED	
PROJECT NO.:		
WORK ORDER NO.		
NAVFAC DRAWING NO.	14047117	
SHEET	153	OF 186
E-102		
<small>DRAWFORM REVISION: 10 MARCH 2009</small>		

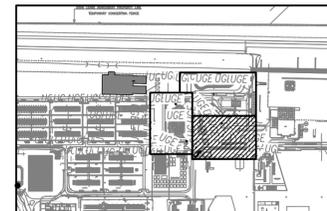
FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT/CAD AutoCAD/E-103 PARTIAL SITE PLAN PLANTING LAYOUT NAME: PARTIAL SITE PLAN PLOTTED: Thursday, March 31, 2016 - 11:36am USER: wherrmann



NEW WORK NOTES - THIS SHEET:

1. TYPE 2 MANHOLE, CAST-IN-PLACE. INTERCEPT EXISTING DUCTBANK. CUT DUCTBANK AWAY INSIDE MANHOLE WITHOUT DAMAGING PRIMARY CONDUCTOR. PROVIDE BELL ENDS ON EXISTING DUCTS.
2. TRANSITION DUCT BANK FROM TWO HIGH DUCTS AT BERM TO ONE HIGH DUCTS ALONG TOP OF TANK.
3. PROVIDE 800A, SERVICE ENTRANCE RATED MANUAL TRANSFER SWITCH.
4. PERSONNEL GATE WITH KEYPAD AND ELECTRIC RELEASE. PROVIDE EMPTY 27mm CONDUIT TO EXISTING P906 ELECTRICAL BUILDING. PROVIDE 15A BRANCH CIRCUIT TO NEW BREAKER IN EXISTING PANEL.
5. EXISTING TELECOMMUNICATIONS MANHOLE. PROVIDE CONDUITS AND CABLING AS SHOWN. COORDINATE ALL WORK IN HANDHOLE WITH BASE TELECOM AT LEAST 48 HOURS IN ADVANCE. TERMINATIONS BY BASE TELECOMMUNICATIONS, MANHOLE SHALL REMAIN SECURE AT ALL TIMES.

PLAN NORTH
PARTIAL SITE PLAN
 SCALE: 1:300

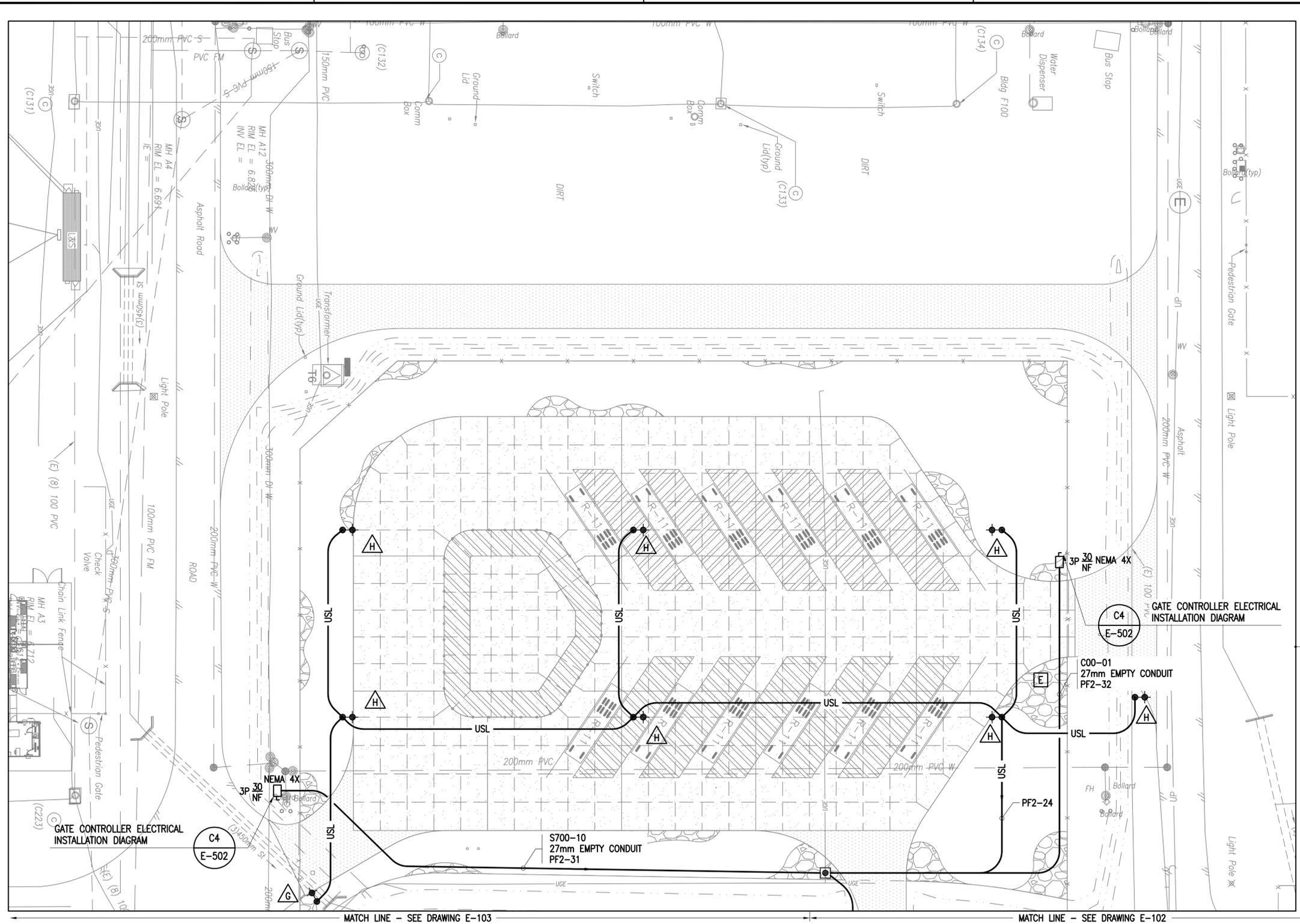


KEY PLAN
 SCALE: NONE

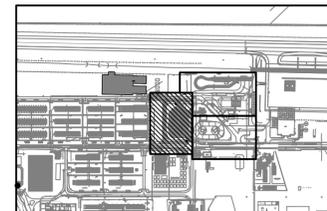


APPROVED	DATE	APPR
DESCRIPTION	DATE	APPR
SYN	DESCRIPTION	APPR
 NAVFAC COMMONWEALTH OF VIRGINIA RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER		
Austin Brockenbrough ENGINEERING - CONSULTING		
APPROVED	A/E INFO	
FOR COMMANDER NAVFAC	ACTIVITY	
SATISFACTORY TO	DATE	
DES: RJK	DRW: WMC	CHK: CHM
<<PM/DR>>		
BRANCH MANAGER		
CHIEF ENG/ARCH		
<<<CR>>		
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	NAVFAC LANT/CAD
ATLANTIC DIVISION	NAVAL FACILITIES ENGINEERING COMMAND	NORFOLK, VIRGINIA
CAMP LEMONNIER	DJIBOUTI, AFRICA	
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES PARTIAL SITE PLAN		
SCALE:	AS NOTED	
PROJECT NO.:		
WORK ORDER NO.:		
NAVFAC DRAWING NO.:	14047118	
SHEET	154	OF 186
E-103		
DRAWFORM REVISION: 10 MARCH 2009		

FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANTCOM AutoCAD\E-104 PARTIAL SITE PLAN.dwg LAYOUT NAME: PARTIAL SITE PLAN PLOTTED: Thursday, March 31, 2016 - 11:37am USER: wherrmann



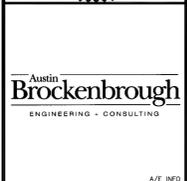
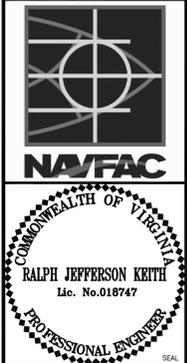
PLAN NORTH
PARTIAL SITE PLAN
 SCALE: 1:300



KEY PLAN
 SCALE: NONE



SYN	DESCRIPTION	DATE	APPR



APPROVED
 FOR COMMANDER NAVFAC
 ACTIVITY

DES	CHK	DATE
RJK	WMC	CHM

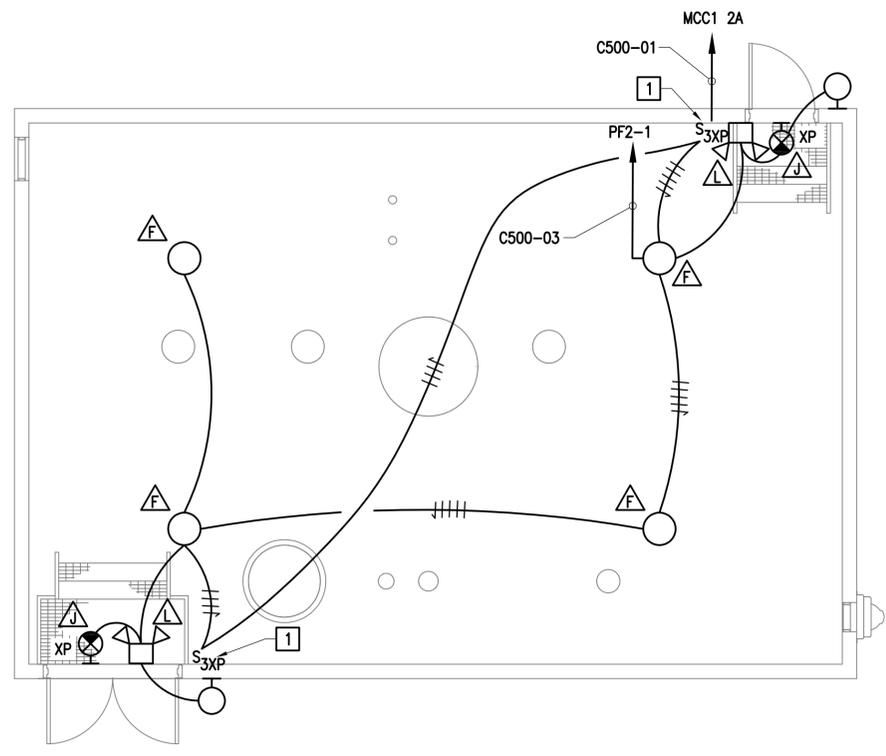
BRANCH MANAGER
 CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NORFOLK, VIRGINIA
 ATLANTIC DIVISION
 CAMP LEMONNIER
 DIBOUTI, AFRICA
DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES
 PARTIAL SITE PLAN

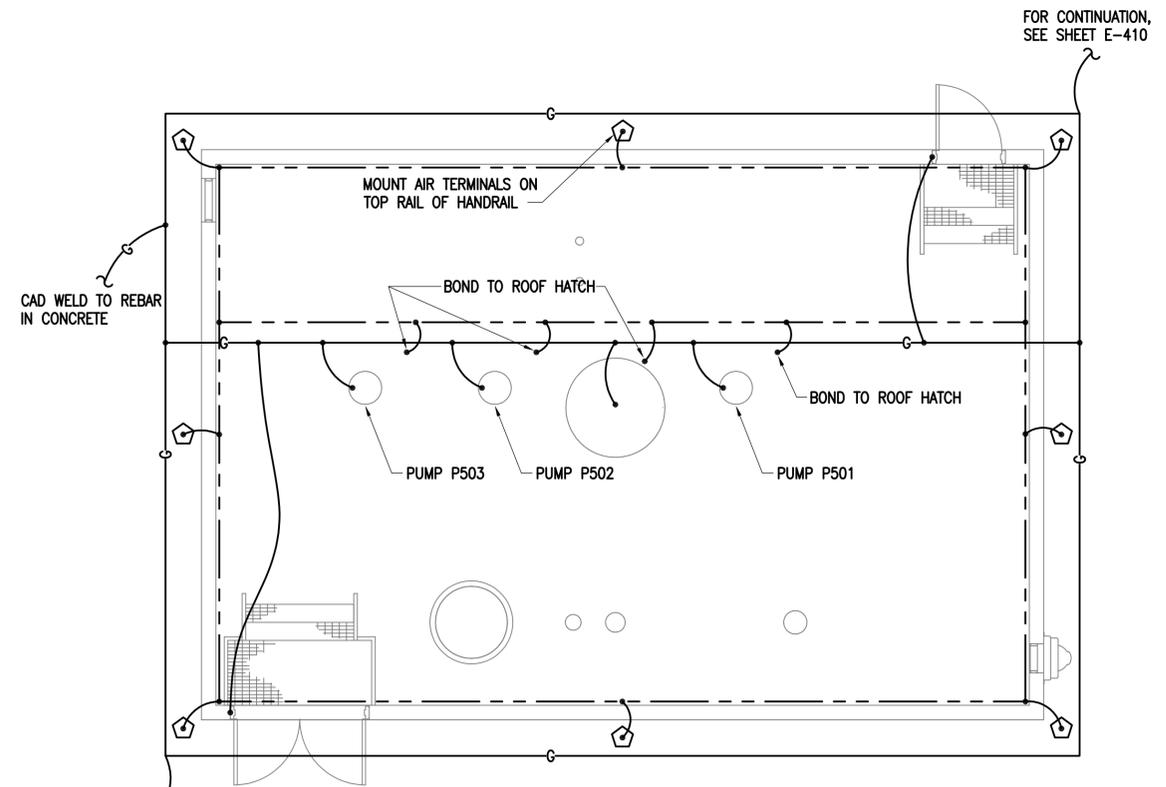
SCALE: AS NOTED
 PROJECT NO.:
 WORK ORDER NO.:
 NAVFAC DRAWING NO.: 14047119
 SHEET 155 OF 186
E-104

DRAWING REVISION: 10 MARCH 2009

FILE NAME: G:\14 Jobs\14-013 Djibouti - NAVFAC LANT\CAD AutoCAD\E-401 PUMPHOUSE PLANS.dwg LAYOUT NAME: PUMPHOUSE PLANS PLOTTED: Thursday, March 31, 2016 - 11:37am USER: wherrmann



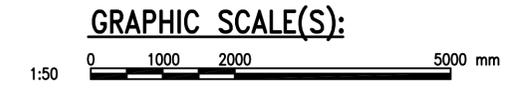
NOTE: TANK 5 SHOWN, TANK 6 SIMILAR.
 PLAN NORTH
PUMPHOUSE LIGHTING PLAN (C1)
 SCALE: 1:50
 E-103



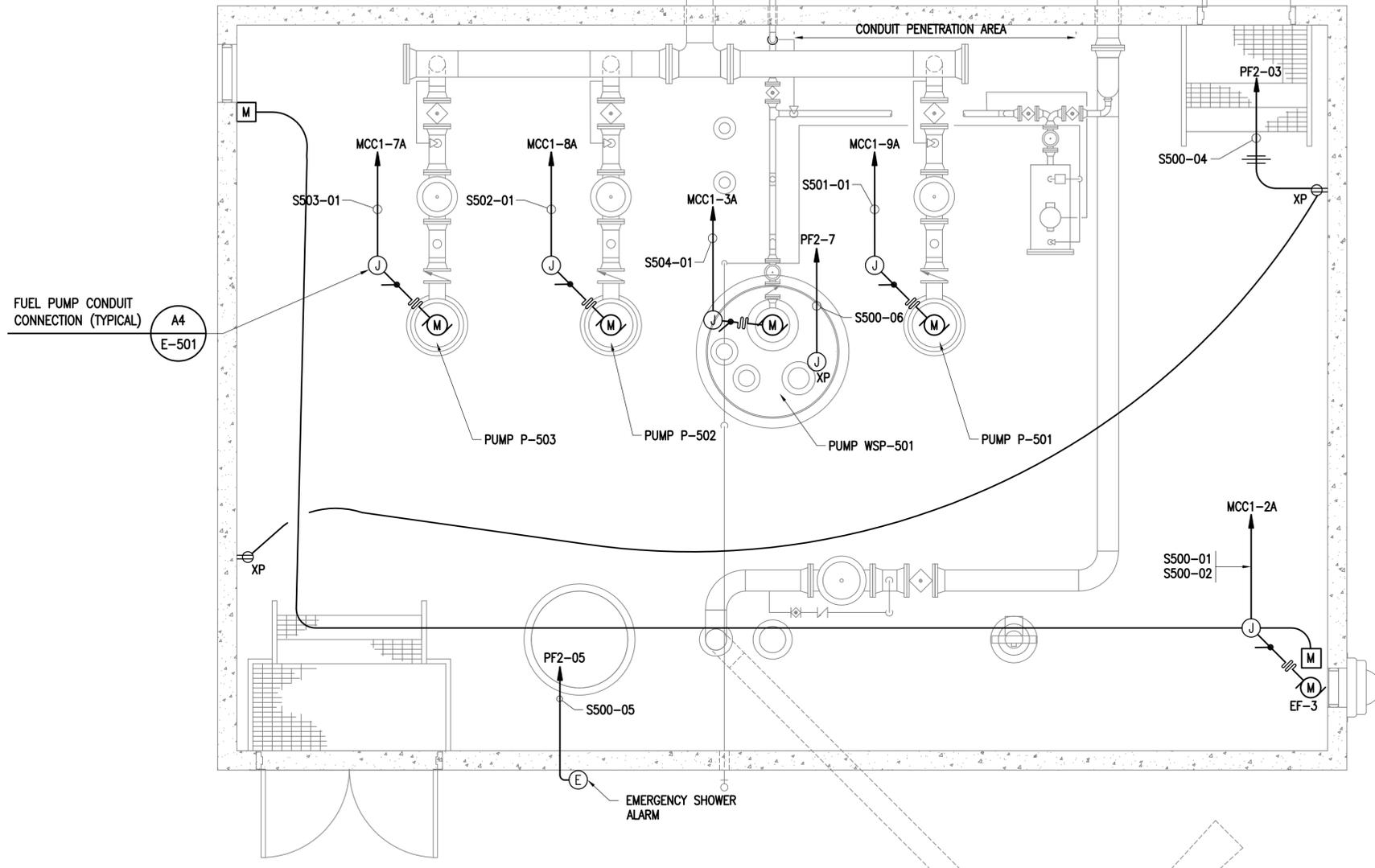
NOTE: TANK 5 SHOWN, TANK 6 SIMILAR.
 PLAN NORTH
PUMPHOUSE GROUNDING PLAN (A1)
 SCALE: 1:50
 E-103

NEW WORK NOTES - THIS SHEET:
 1. DOUBLE-POLE, DOUBLE THROW, EXPLOSIONPROOF SNAP SWITCH FOR CONTROL OF LIGHTS AND EXHAUST FAN. SEE EXHAUST FAN WIRING DIAGRAM ON E-602.

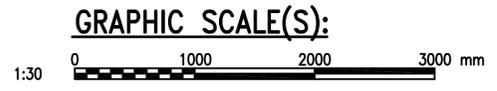
APPR	DATE	DESCRIPTION	SYN
 NAVFAC  RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER			
 Austin Brockenbrough ENGINEERING - CONSULTING			
APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO DATE			
DES	RJK	DRW	WMC CHK CHM
<<PM/DR>>			
BRANCH MANAGER			
CHIEF ENG/ARCH			
<<CR>>			
DEPARTMENT OF THE NAVY ATLANTIC DIVISION CAMP LEMONNIER NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA DIBOUTI, AFRICA DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES PUMPHOUSE PLANS			
SCALE: AS NOTED			
PROJECT NO.:			
WORK ORDER NO.			
NAVFAC DRAWING NO. 14047120			
SHEET 156 OF 186			
E-401			
DRAWFORM REVISION: 10 MARCH 2009			



FILE NAME: G:\14_Jobs\14-013_Djibouti - Fuel Storage Facility - NAVFAC LANT\040 AutoCAD\14-013_PUMPHOUSE POWER PLAN.dwg LAYOUT NAME: PUMPHOUSE POWER PLAN PLOTTED: Thursday, March 31, 2016 - 11:37am USER: wherrmann



PLAN NORTH
 NOTE: TANK 5 SHOWN, TANK 6 SIMILAR.
PUMPHOUSE POWER PLAN
 SCALE: 1:30 E-103 (B1)



SYN	DESCRIPTION	DATE	APPR



Austin
Brockenbrough
 ENGINEERING - CONSULTING

APPROVED
 FOR COMMANDER NAVFAC

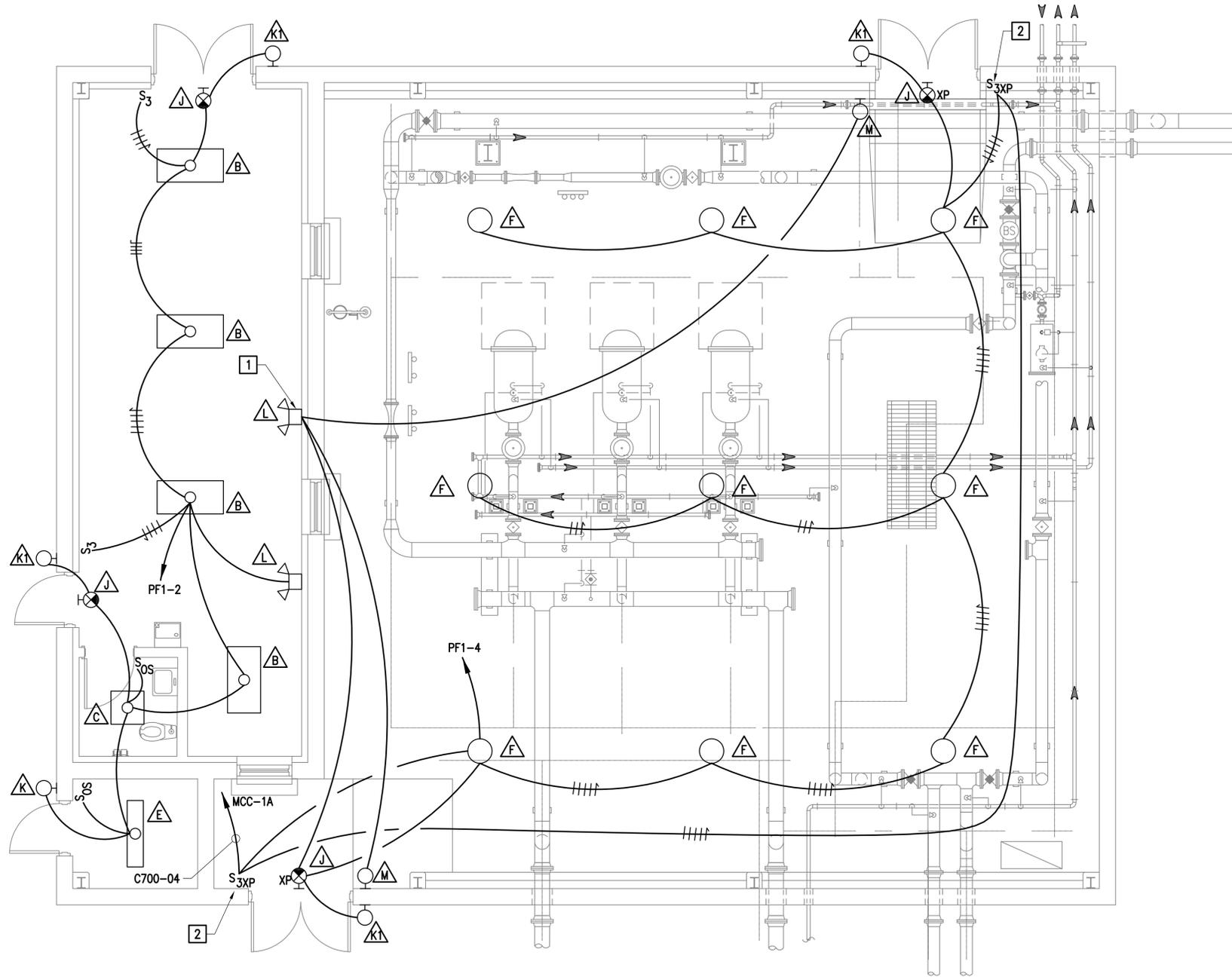
SATISFACTORY TO DATE
 DES: RJK | DRW: WMG | CHK: CHM
 BRANCH MANAGER
 CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
 ATLANTIC DIVISION
 CAMP LEMONNIER
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND
 NORFOLK, VIRGINIA
 DUBOULT, AFRICA
DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES
 PUMPHOUSE POWER PLAN

SCALE: AS NOTED
 PROJECT NO.:
 WORK ORDER NO.:
 NAVFAC DRAWING NO.: 14047121
 SHEET 157 OF 186
E-402

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: G:\14_Jobs\14-013_Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\14-E-404-FILTER BLDG LIGHTING PLAN.dwg LAYOUT NAME: FILTER BLDG LIGHTING PLAN PLOTTED: Thursday, March 31, 2016 - 11:35am USER: wherrmann



NEW WORK NOTES - THIS SHEET:

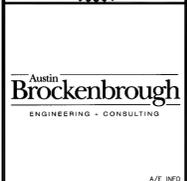
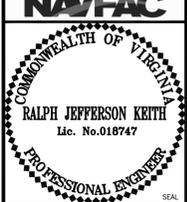
1. PROVIDE REMOTE HEADS ONLY FOR THIS FIXTURE.
2. DOUBLE POLE DOUBLE THROW EXPLOSION PROOF SNAP SWITCH.



FILTER BUILDING LIGHTING PLAN
 SCALE: 1:50
 E-103 (B1)



SYN	DESCRIPTION	DATE	APPR



APPROVED
 FOR COMMANDER NAVFAC

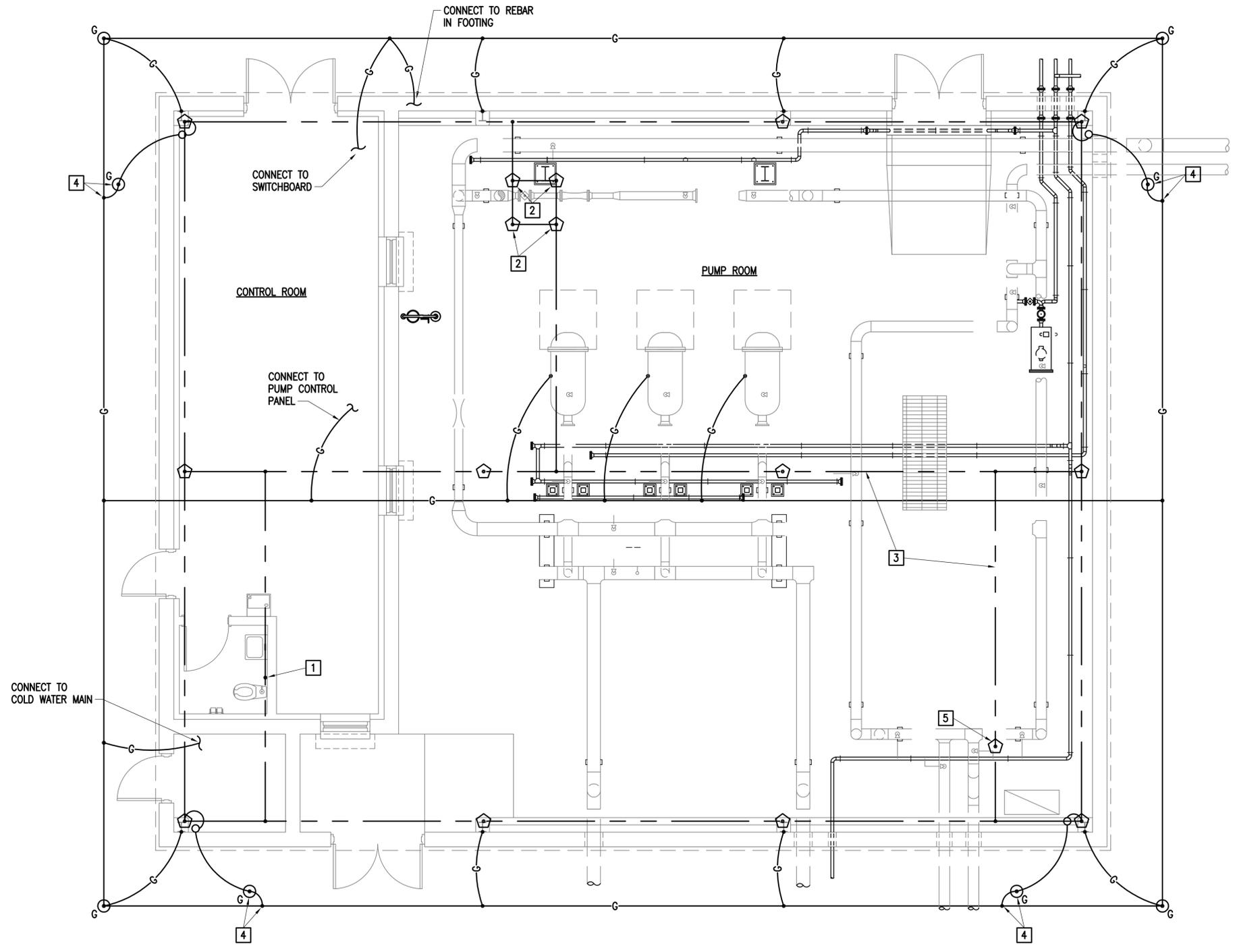
SATISFACTORY TO	DATE
DES: RJK	DRW: WMG
CHK: CHM	
BRANCH MANAGER	
CHIEF ENG/ARCH	

DEPARTMENT OF THE NAVY
 ATLANTIC DIVISION
 CAMP LEMONNIER
 NAVAL FACILITIES ENGINEERING COMMAND
 NORFOLK, VIRGINIA
 DIBOUTI, AFRICA
DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES
 FILTER BLDG LIGHTING PLAN

SCALE:	AS NOTED
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO.:	14047123
SHEET	159 OF 186
E-404	

DRAWFORM REVISION: 10 MARCH 2009

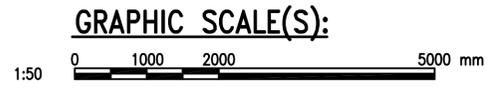
FILE NAME: G:\14_Jobs\14-013_Djibouti - Fuel Storage Facility - NAVFAC LANT\040 AutoCAD\14-E-405 FILTER BLDG GROUNDING PLAN.dwg LAYOUT NAME: FILTER BLDG GROUNDING PLAN PLOTTED: Thursday, March 31, 2016 - 11:38am USER: wharrmm



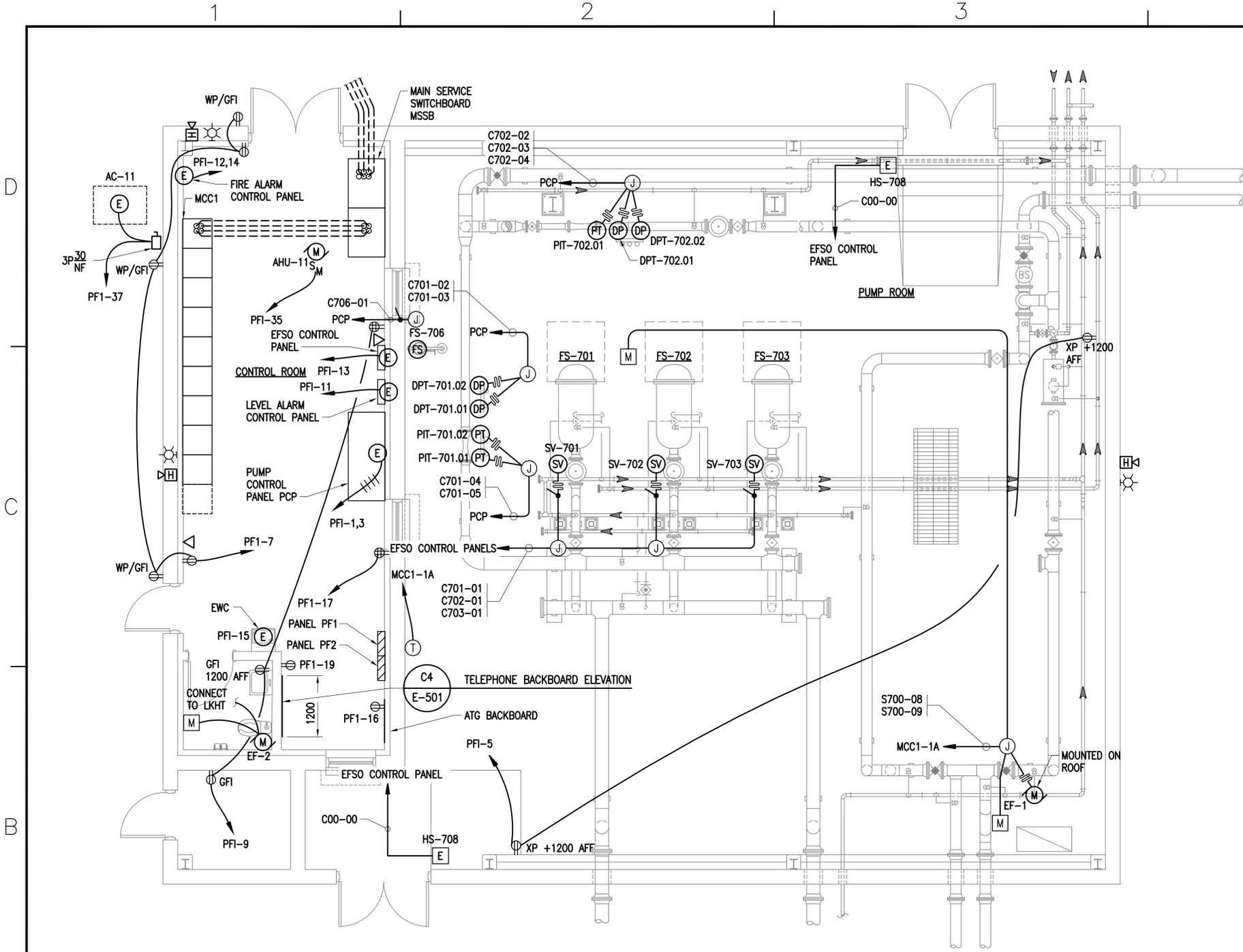
PLAN NORTH
FILTER BLDG GROUNDING PLAN
 SCALE: 1:50
 E-103 (A1)

- NEW WORK NOTES - THIS SHEET**
1. BOND TO ROOF VENT PIPE.
 2. MOUNT AIR TERMINALS ON LOUVERED MECHANICAL PENTHOUSE.
 3. ROUTE LIGHTNING PROTECTION ROOF CONDUCTORS ON UNDERSIDE OF STANDING SEAM METAL ROOF.
 4. LIGHTNING PROTECTION SYSTEM DEDICATED GROUNDING ELECTRODE. CONNECT TO ELECTRICAL SERVICE GROUND RING ELECTRODE.
 5. MOUNT AIR TERMINAL ON EXHAUST FAN.

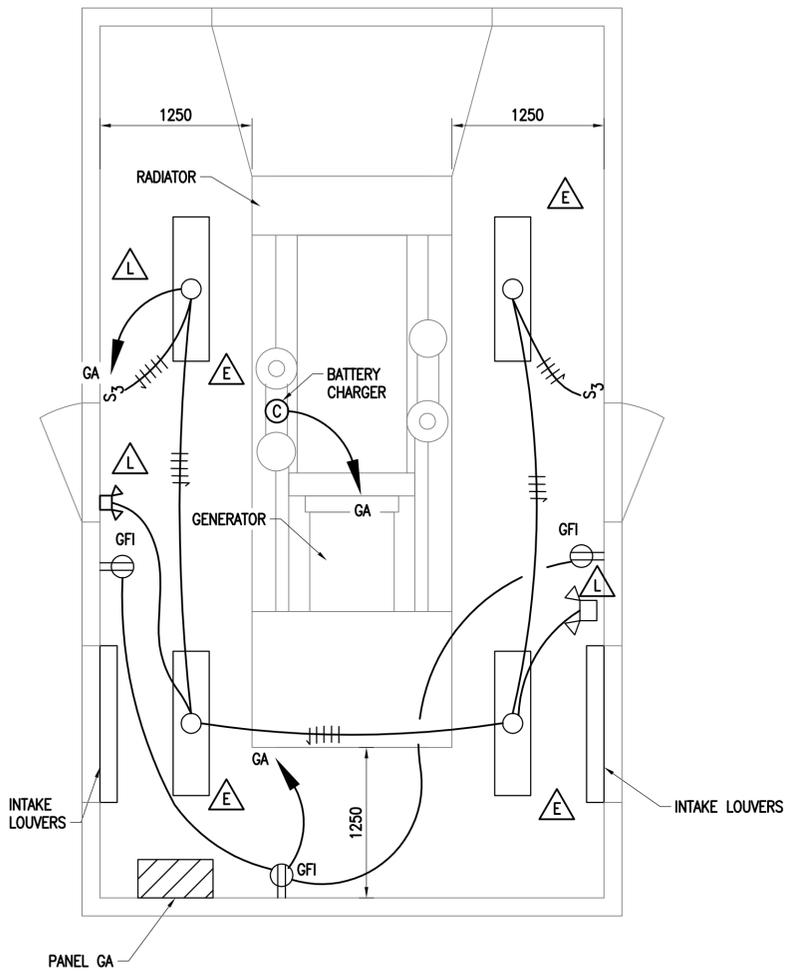
	APPR
	DATE
	SYN DESCRIPTION
 NAVFAC	
 RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER	
 Brockebrough ENGINEERING - CONSULTING	
A/E INFO	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES: RJK	DRW: WMG CHK: CHM
<<PM/DR>>	
BRANCH MANAGER	
CHIEF ENG/ARCH	
<<CR>>	
DEPARTMENT OF THE NAVY ATLANTIC DIVISION CAMP LEMONNIER	NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA DIBOUTI AFRICA
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES FILTER BLDG GROUNDING PLAN	
SCALE: AS NOTED	
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO. 14047124	
SHEET 160 OF 186	
E-405	
DRAWFORM REVISION: 10 MARCH 2009	



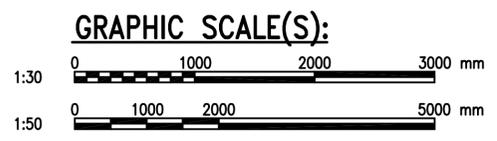
FILE NAME: G:\14_Jobs\14-013_Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\14-013_FILTER BLDG POWER PLAN.dwg LAYOUT NAME: FILTER BLDG POWER PLAN PLOTTED: Thursday, March 31, 2016 - 11:35am USER: whiermann



PLAN NORTH
FILTER BUILDING POWER/CONTROL PLAN
 SCALE: 1:50
 E-103 (B1)

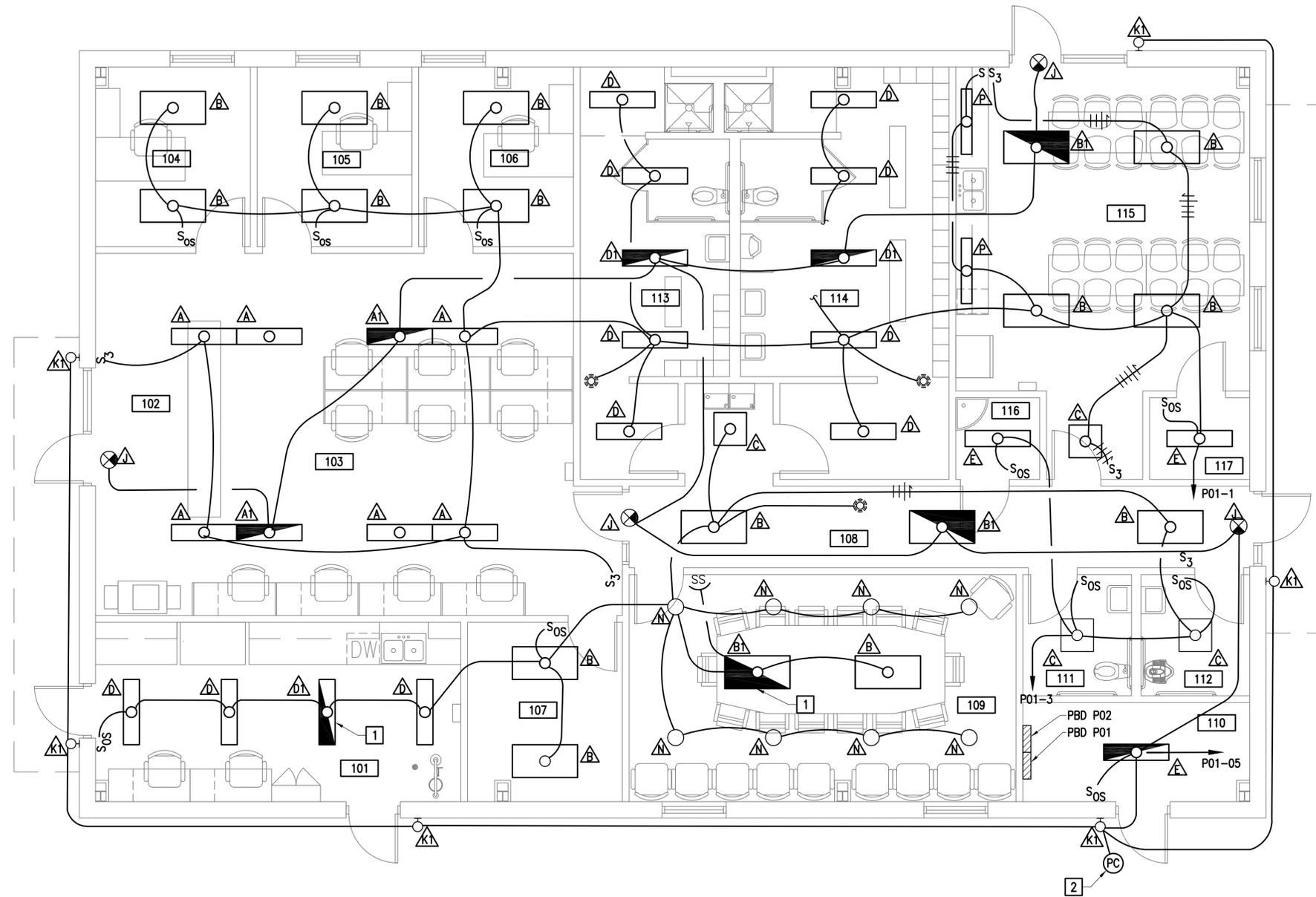


PLAN NORTH
**GENERATOR SOUND ATTENUATED
 WALK-IN WEATHERPROOF ENCLOSURE**
 SCALE: 1:30
 E-102, E-103 (B4)



APPR	
DATE	
DESCRIPTION	
SYN	
 NAVFAC COMMONWEALTH OF VIRGINIA RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER	
Austin Brockenbrough ENGINEERING - CONSULTING	
APPROVED	A/E INFO
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO	DATE
DES: RJK	DRW: WMG
CHK: CHM	
BRANCH MANAGER	
CHIEF ENG/ARCH	
<<CR>>	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION CAMP LEMONNIER NORFOLK, VIRGINIA DIBOUTI AFRICA	
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES FILTER BLDG POWER PLAN	
SCALE:	AS NOTED
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO.:	14047125
SHEET	161 OF 186
E-406	
<small>DRAWING REVISION: 10 MARCH 2009</small>	

FILE NAME: G:\14 Jobs\14-013 Djbouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\14-013 OPS BUILDING LIGHTING PLAN LAYOUT NAME: OPS BUILDING LIGHTING PLAN PLOTTED: Thursday, March 31, 2016 - 11:39am USER: wherrmann

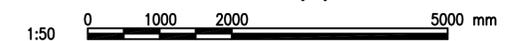


NEW WORK NOTES - THIS SHEET:

1. WIRE EMERGENCY BALLAST AHEAD OF SWITCH.
2. MOUNT PHOTOCELL AT EAVE OF BUILDING. SHIELD FROM ANY NIGHTTIME LIGHT SOURCE.

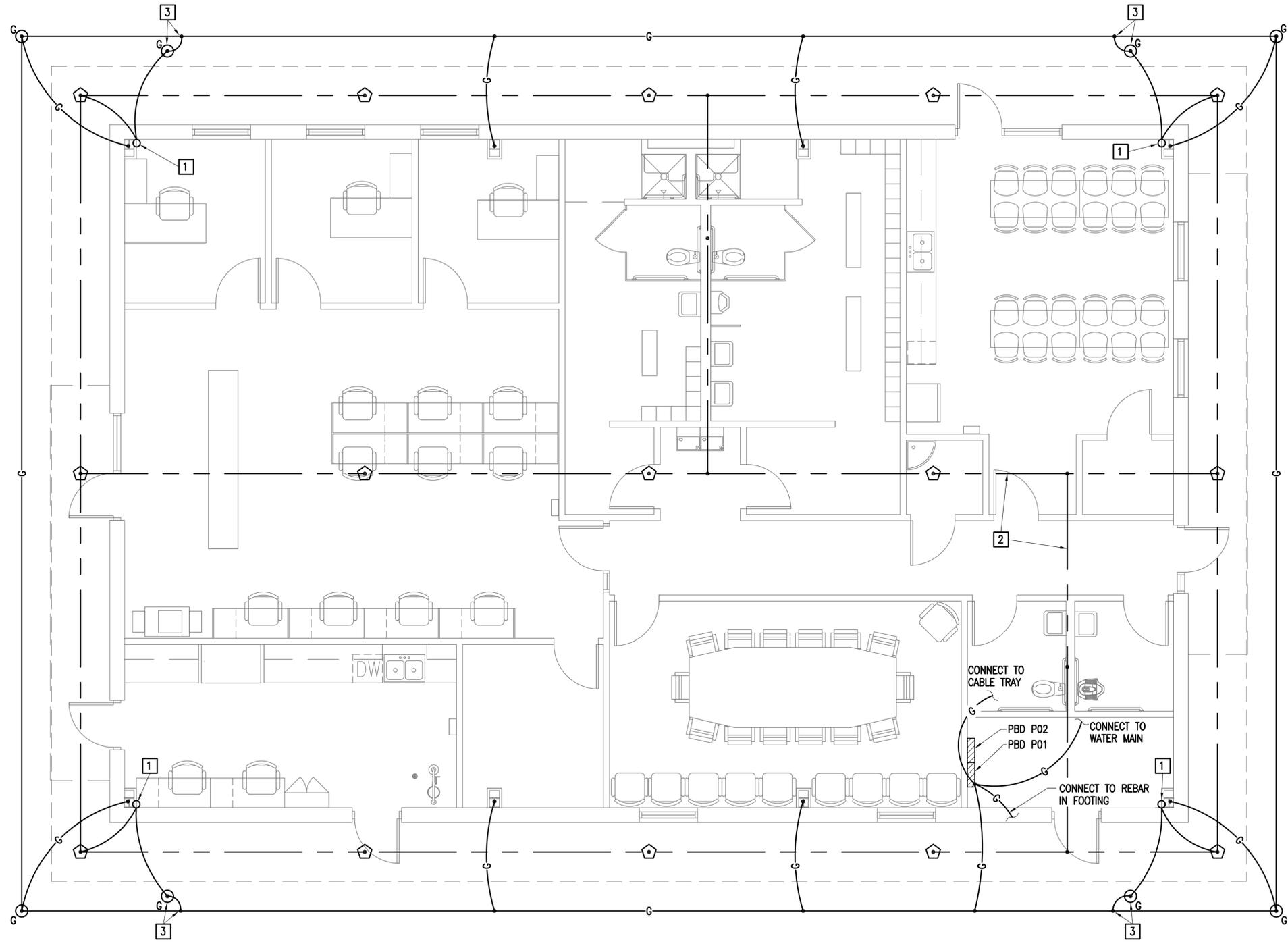
PLAN NORTH
OPS BUILDING LIGHTING PLAN
 SCALE: 1:50
 E-103 C1

GRAPHIC SCALE(S):



APPR	
DATE	
SYN	DESCRIPTION
 NAVFAC RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER	
 Austin Brockenbrough ENGINEERING - CONSULTING	
A/E INFO	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES	RJK
DRW	WMC
CHK	CHM
<<PM/DR>>	
BRANCH MANAGER	
CHIEF ENG/ARCH	
<<CR>>	
DEPARTMENT OF THE NAVY ATLANTIC DIVISION CAMP LEMONIER NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA DIBOUTI, AFRICA	
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES OPS BUILDING LIGHTING PLAN	
SCALE: AS NOTED	
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO. 14047126	
SHEET 162 OF 186	
E-407	
DRAWFORM REVISION: 10 MARCH 2009	

FILE NAME: G:\14_Jobs\14-013_Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\14-E-408 OPS BUILDING GROUNDING PLAN.dwg LAYOUT NAME: OPS BUILDING GROUNDING PLAN PLOTTED: Thursday, March 31, 2016 - 11:38am USER: wherrmann



PLAN NORTH
OPS BUILDING GROUNDING PLAN
 SCALE: 1:50
 E-103 **A1**

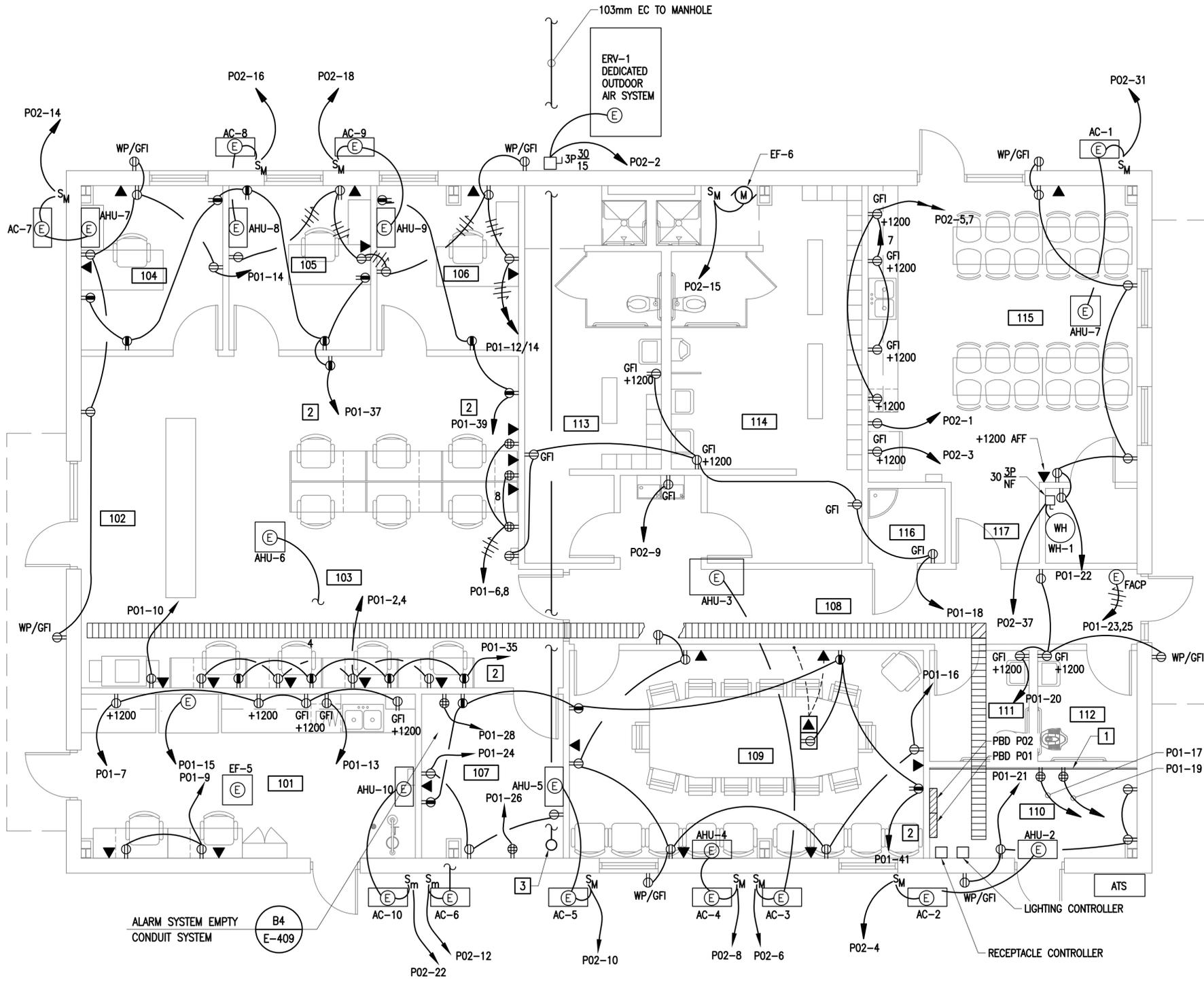
NEW WORK NOTES - THIS SHEET:

1. LIGHTNING PROTECTION SYSTEM DOWN CONDUCTOR. CONNECT TO STRUCTURAL STEEL COLUMN AT TOP AND BOTTOM OF COLUMN.
2. ROUTE LIGHTNING PROTECTION ROOF CONDUCTORS ON UNDERSIDE OF STANDING SEAM METAL ROOF.
3. LIGHTNING PROTECTION SYSTEM DEDICATED GROUNDING ELECTRODE. CONNECT TO ELECTRICAL SERVICE GROUND RING ELECTRODE.

	APPR
	DATE
	SYN DESCRIPTION
 NAVFAC	
 RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER	
 Austin Brockenbrough ENGINEERING - CONSULTING	
A/E INFO	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES: RJK	DRW: WMC CHK: CHM
<<PM/DR>>	
BRANCH MANAGER	
CHIEF ENG/ARCH	
<<CR>>	
NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA DIBOUTI AFRICA CAMP LEMONNIER DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES OPS BUILDING GROUNDING PLAN	
DEPARTMENT OF THE NAVY	
ATLANTIC DIVISION	
SCALE: AS NOTED	
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO. 14047127	
SHEET 163 OF 186	
E-408	
DRAWFORM REVISION: 10 MARCH 2009	

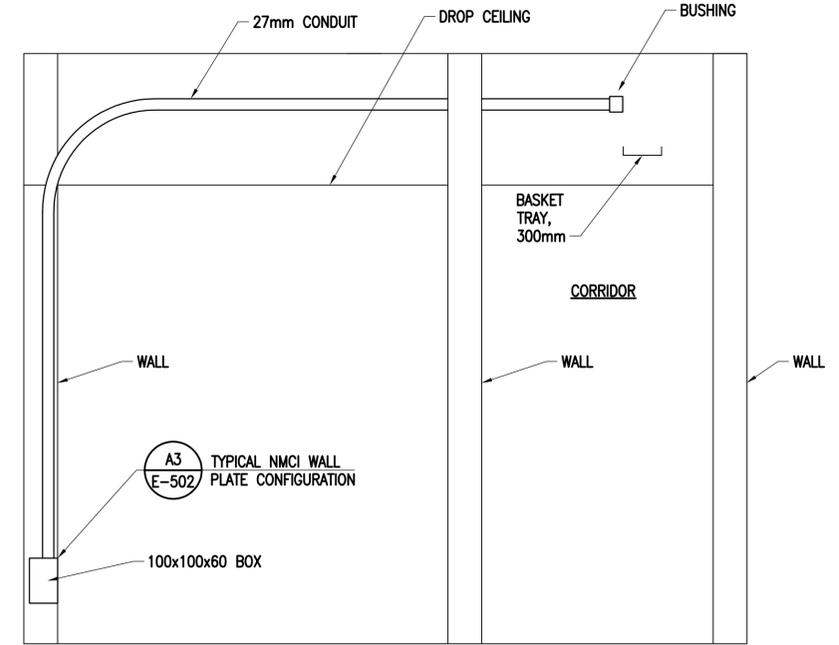


FILE NAME: G:\14 Jobs\14-013 Dibuair - Fuel Storage Facility - NAVFAC LANTCOM AutoCAD\E-409 OPS BUILDING POWER PLAN.dwg LAYOUT NAME: OPS BUILDING POWER PLAN PLOTTED: Thursday, March 31, 2016 - 11:39am USER: whitemann

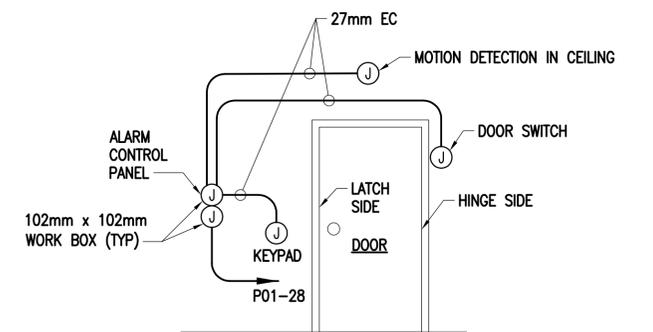


PLAN NORTH
OPS BUILDING POWER PLAN
 SCALE: 1:50
 E-103 **A1**

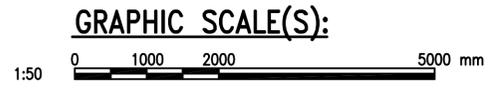
- NEW WORK NOTES - THIS SHEET**
1. PROVIDE 20mm FIRE RETARDANT TREATED PLYWOOD FOR LENGTH OF WALL, 2.40M FOOT HIGH.
 2. SWITCHED RECEPTACLE CIRCUIT. WIRE VIA CONTACTOR.
 3. PROVIDE 103mm CONDUITS STUBBED UP ABOVE FLOOR AND CONCRETE ENCASED TO MANHOLE C222. SEE E-103 FOR CONTINUATION.



TYPICAL NMCI TELECOMMUNICATIONS OUTLET
 SCALE: 1:50

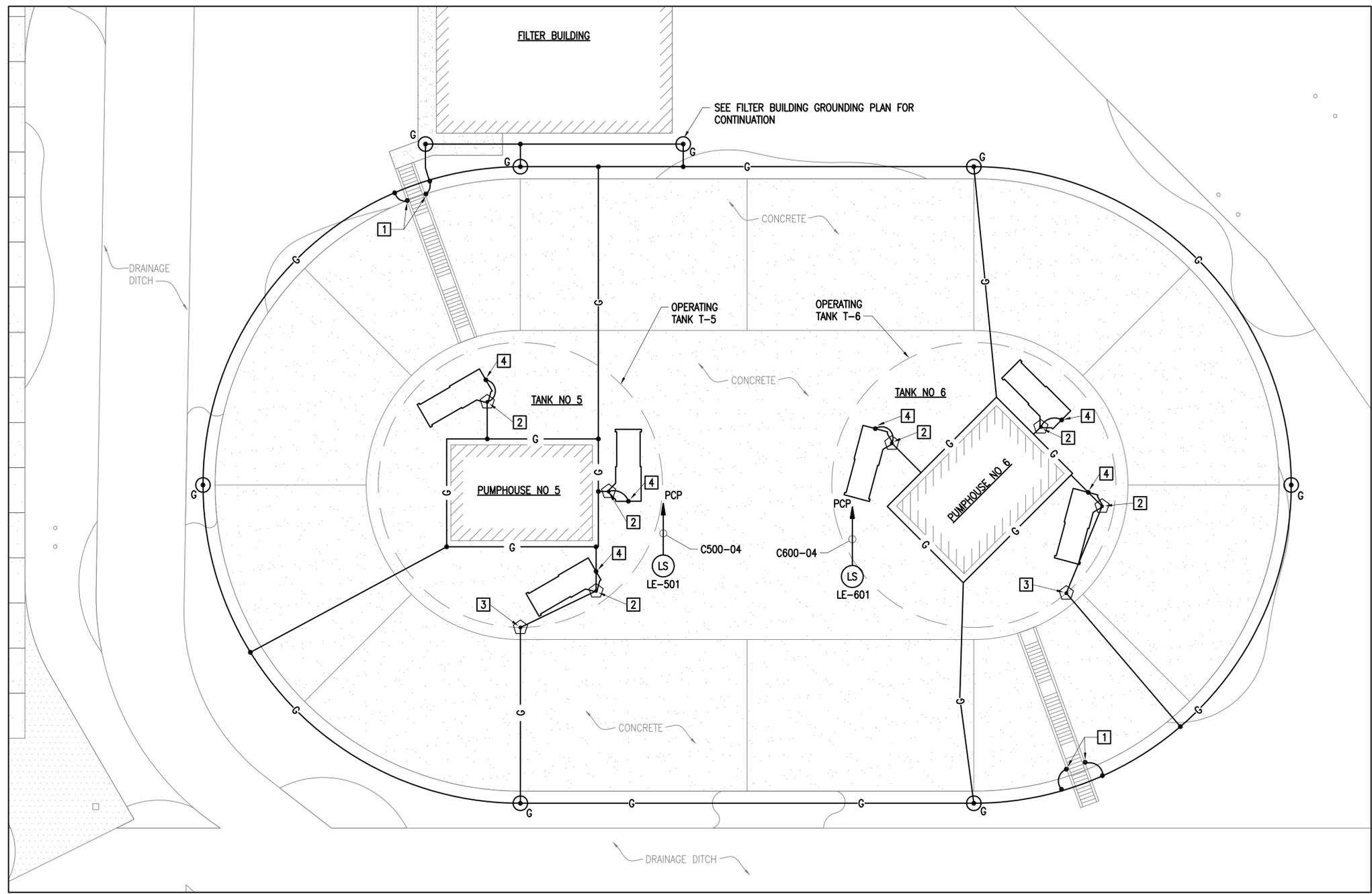


ALARM SYSTEM EMPTY CONDUIT SYSTEM
 SCALE: NONE
 E-409 **B4**



APPROVED	DATE	APPR
SYN	DESCRIPTION	DATE
 NAVFAC COMMONWEALTH OF VIRGINIA RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER		
Austin Brockenbrough ENGINEERING - CONSULTING		
APPROVED	A/E INFO	
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO	DATE	
DES: RJK	DRW: WMC	CHK: CHM
<<PM/DR>>		
BRANCH MANAGER		
CHIEF ENG/ARCH		
<<CR>>		
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	NAVFAC LANTCOM
ATLANTIC DIVISION	NAVAL FACILITIES ENGINEERING COMMAND	NORFOLK, VIRGINIA
CAMP LEMONNIER	DUBOULTI AFRICA	
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES OPS BUILDING POWER PLAN		
SCALE:	AS NOTED	
PROJECT NO.:		
WORK ORDER NO.:		
NAVFAC DRAWING NO.:	14047128	
SHEET	164	OF 186
E-409		
DRAWFORM REVISION: 10 MARCH 2009		

FILE NAME: G:\14_Jobs\14-013_Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\LE-410 TANKS NO 5 AND NO 6 GROUNDING PLAN LAYOUT NAME: TANKS NO 5 AND NO 6 GROUNDING PLAN PLOTTED: Thursday, March 31, 2016 - 11:39am USER: wherrmann



PLAN NORTH
OPERATING TANKS NO 5 AND NO 6 GROUNDING PLAN
 SCALE: 1:200

- NEW WORK NOTES - THIS SHEET:**
1. BOND TO GALVANIZED STEEL HANDRAILS.
 2. MOUNT AIR TERMINAL ON TANK VENT.
 3. MOUNT AIR TERMINAL ON INTERSTITIAL VENT.
 4. BOND TO RAILS ON ROLLING COVER.



SYN	DESCRIPTION	DATE	APPR



APPROVED

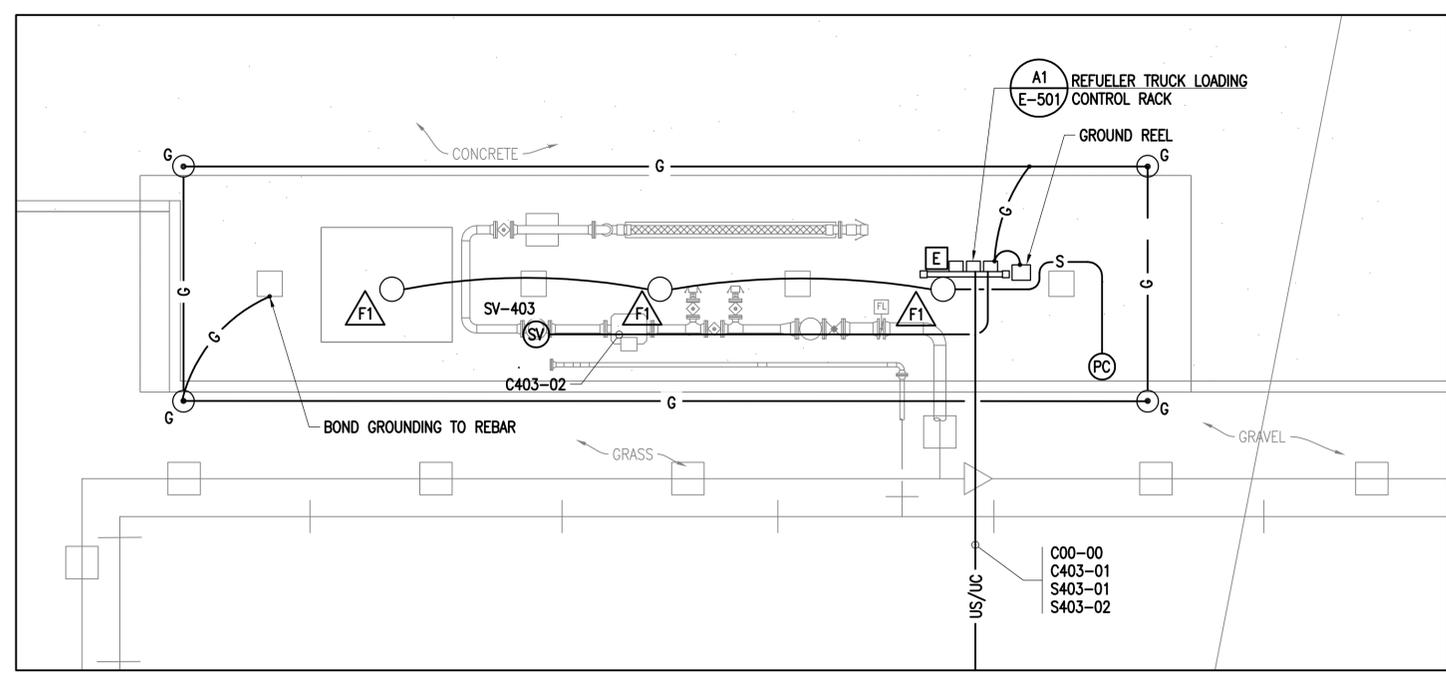
FOR COMMANDER NAVFAC
 ACTIVITY

SATISFACTORY TO DATE
 DES: RJK | DRW: WMG | CHK: CHM
 <<PM/DR>>
 BRANCH MANAGER
 CHIEF ENG/ARCH
 <<CR>>

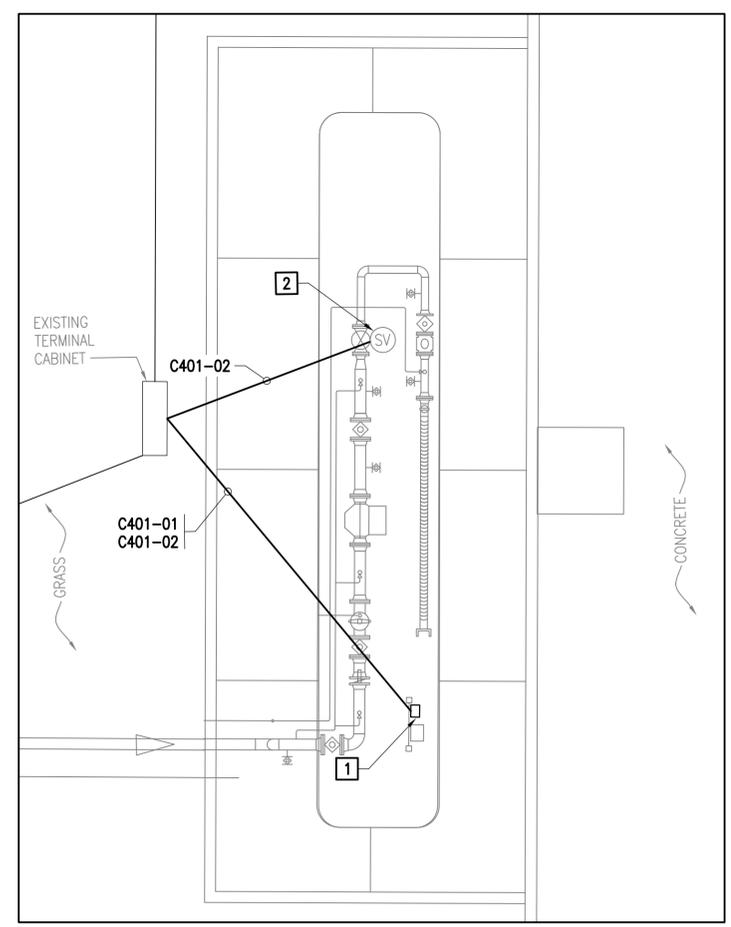
DEPARTMENT OF THE NAVY
 ATLANTIC DIVISION
 NAVAL FACILITIES ENGINEERING COMMAND
 NORFOLK, VIRGINIA
 DIBOUTI, AFRICA
DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES
 TANKS NO 5 AND NO 6 GROUNDING PLAN

SCALE: AS NOTED
 PROJECT NO.:
 WORK ORDER NO.:
 NAVFAC DRAWING NO.: 14047129
 SHEET 165 OF 186
E-410

DRAWFORM REVISION: 10 MARCH 2009

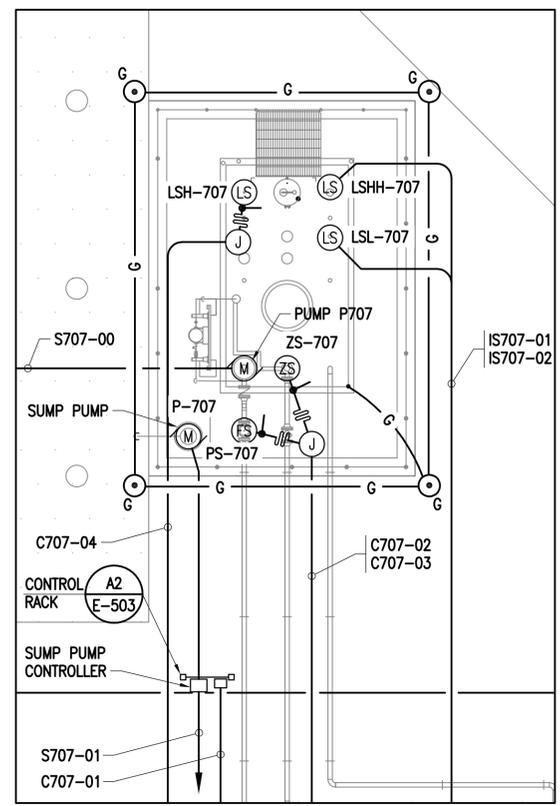


PLAN NORTH
 NOTE: REFUELER TRUCK LOADING STATION NO 4 SIMILAR.
REFUELER TRUCK LOADING STATION NO 3 (C1)
 SCALE: 1:50
 E-102

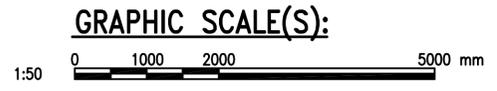


PLAN NORTH
TRUCK OFF-LOADING STATION NO 1 (MODIFICATIONS TO EXISTING) (A1)
 SCALE: 1:50
 E-102

- NEW WORK NOTES - THIS SHEET:**
1. PROVIDE NEW START-STOP PUSHBUTTON WITH RUN LIGHT ON EXISTING RACK, USE EXISTING CONDUIT. WORK AT EXISTING REFUELER TRUCK LOADING STATION NO 2 SIMILAR.
 2. WIRE SOLENOID DIRECT TO TRUCK GROUND VERIFICATION/DEADMAN PERMISSIVE CONTACT.



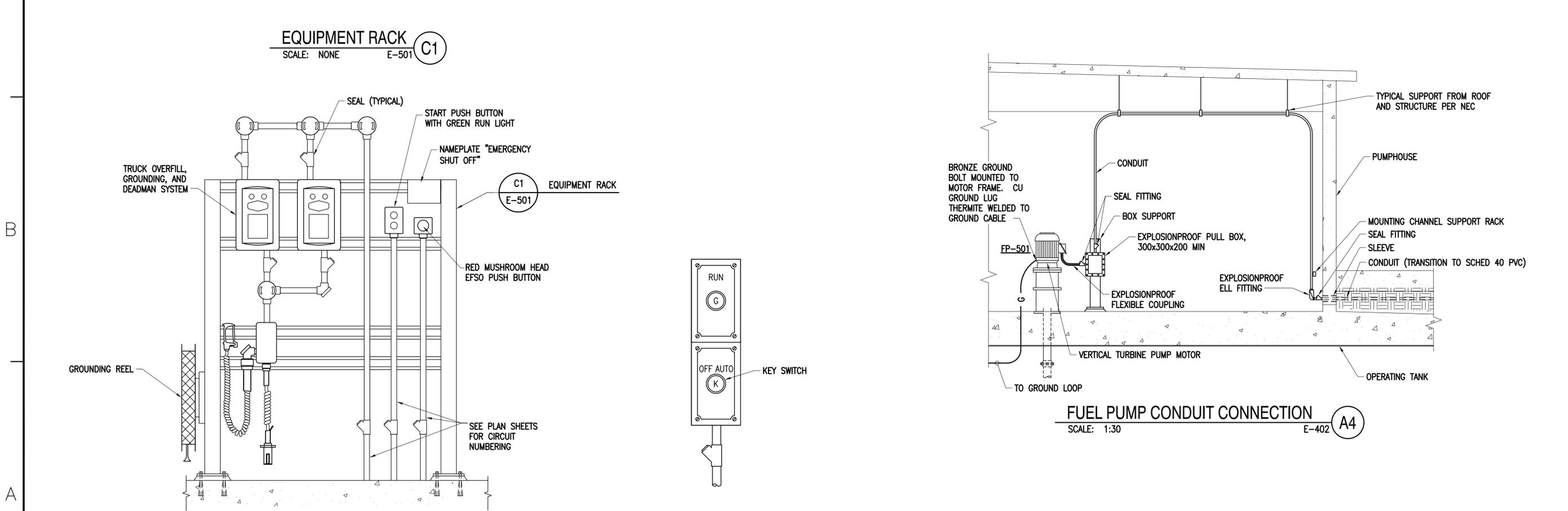
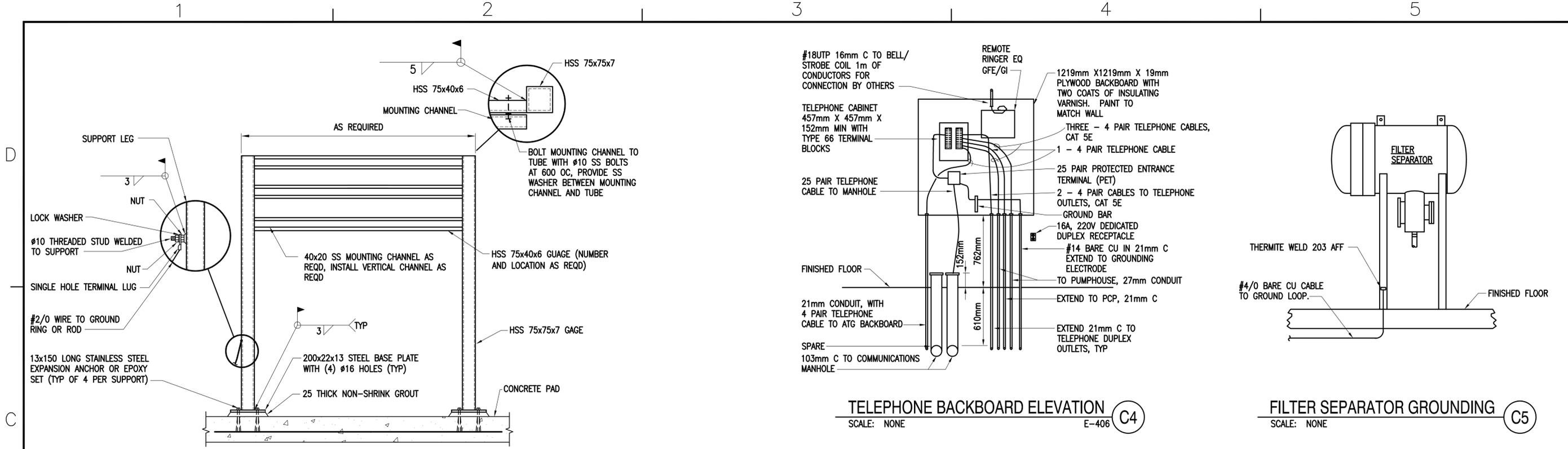
PLAN NORTH
PRODUCT RECOVERY TANK (C4)
 SCALE: 1:50
 E-102



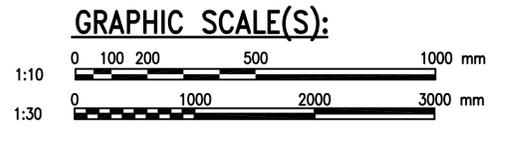
APPR	
DATE	
SYN	DESCRIPTION
 NAVFAC COMMONWEALTH OF VIRGINIA RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER	
Austin Brockenbrough ENGINEERING - CONSULTING	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES	DRW
RJK	WMC
CHK	CHM
<<PM/DR>>	
BRANCH MANAGER	
CHIEF ENG/ARCH	
<<CR>>	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA DIBOUTI AFRICA CAMP LEMONNIER	
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES REFUELER TRUCK LOADING PLAN	
SCALE: AS NOTED	
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO. 14047130	
SHEET 166 OF 186	
E-411	
DRAWFORM REVISION: 10 MARCH 2009	

FILE NAME: G:\14 Jobs\14-013 Djbouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\E-411 REFUELER TRUCK LOADING PLAN.dwg LAYOUT NAME: REFUELER TRUCK LOADING PLAN PLOTTED: Thursday, March 31, 2016 - 11:40am USER: whermann

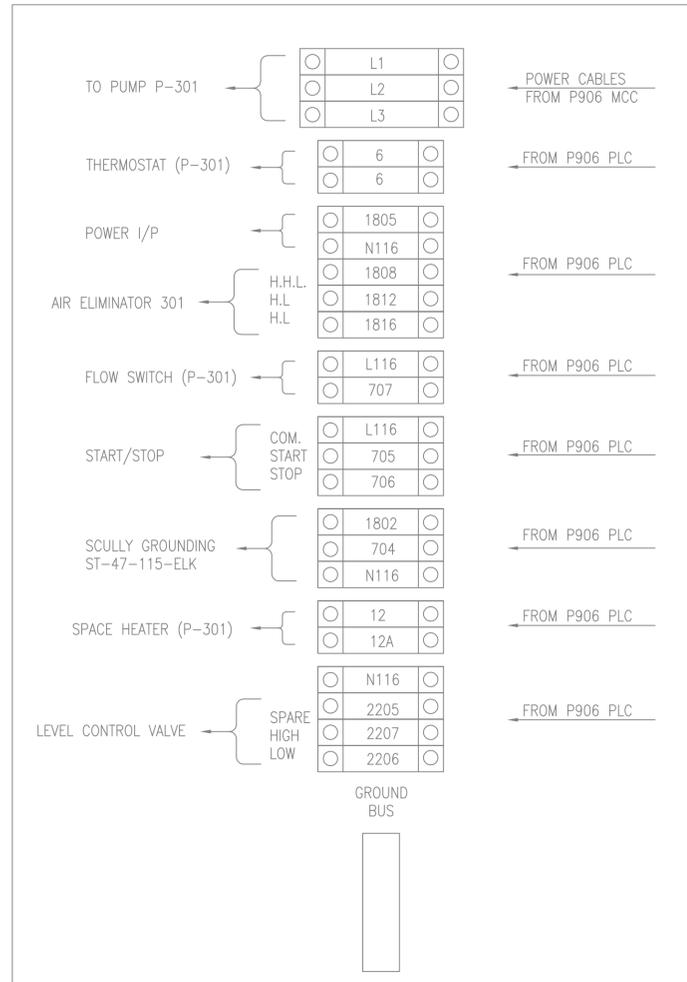
FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT\040 AutoCAD\14-E-501 ELECTRICAL DETAILS.dwg LAYOUT NAME: ELECTRICAL DETAILS PLOTTED: Thursday, March 31, 2016 - 11:41am USER: wherrmann



APPROVED	DATE	APPR
SYN	DESCRIPTION	DATE
Brockenbrough ENGINEERING - CONSULTING		
APPROVED	A/E INFO	
FOR COMMANDER NAVFAC	ACTIVITY	
SATISFACTORY TO	DATE	
DES: RJK	DRW: WMG	CHK: CHM
BRANCH MANAGER		
CHIEF ENG/ARCH		
NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA DIBOUTI, AFRICA CAMP LEMONNIER		
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES ELECTRICAL DETAILS		
SCALE:	AS NOTED	
PROJECT NO.:		
WORK ORDER NO.		
NAVFAC DRAWING NO.	14047131	
SHEET	167	OF 186
E-501		
<small>DRAWFORM REVISION: 10 MARCH 2009</small>		

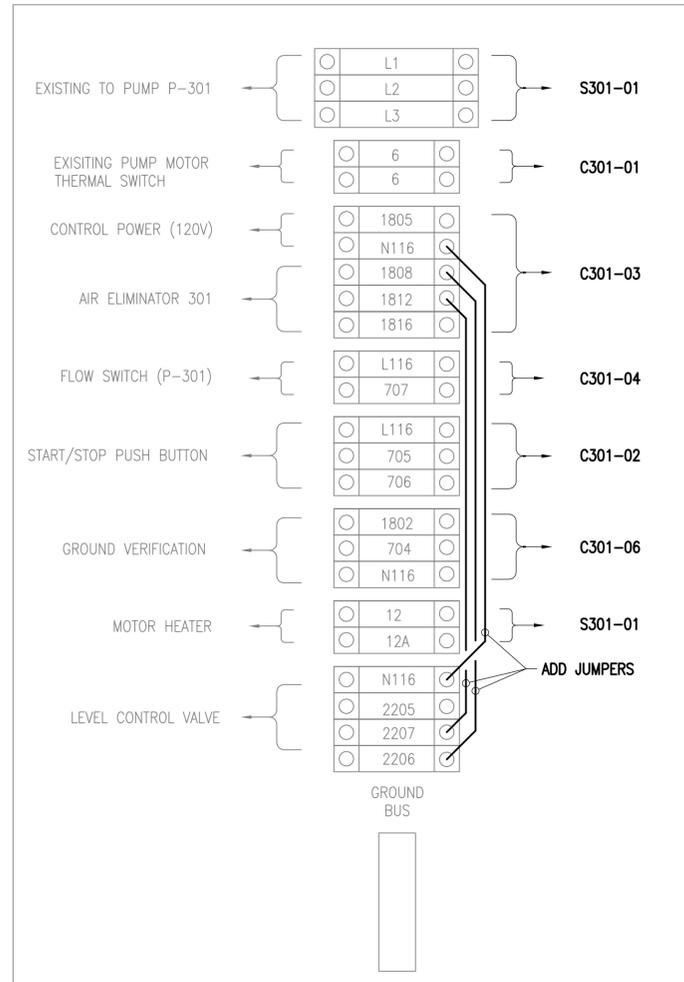


FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT\040 AutoCAD\14-E-502 ELECTRICAL DETAILS.dwg LAYOUT NAME: ELECTRICAL DETAILS PLOTTED: Thursday, March 31, 2016 - 11:41am USER: whiermann



EXISTING/DEMOLITION

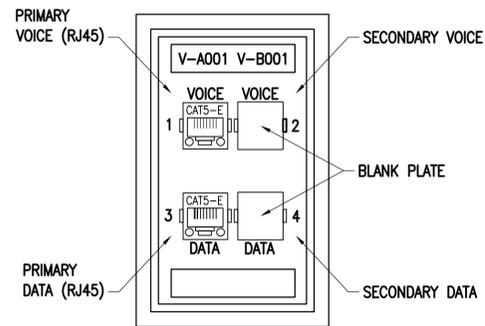
NOTE:
FOR DEMOLITION, REMOVE WIRING TO P906 PLC/MCC.



NEW WORK

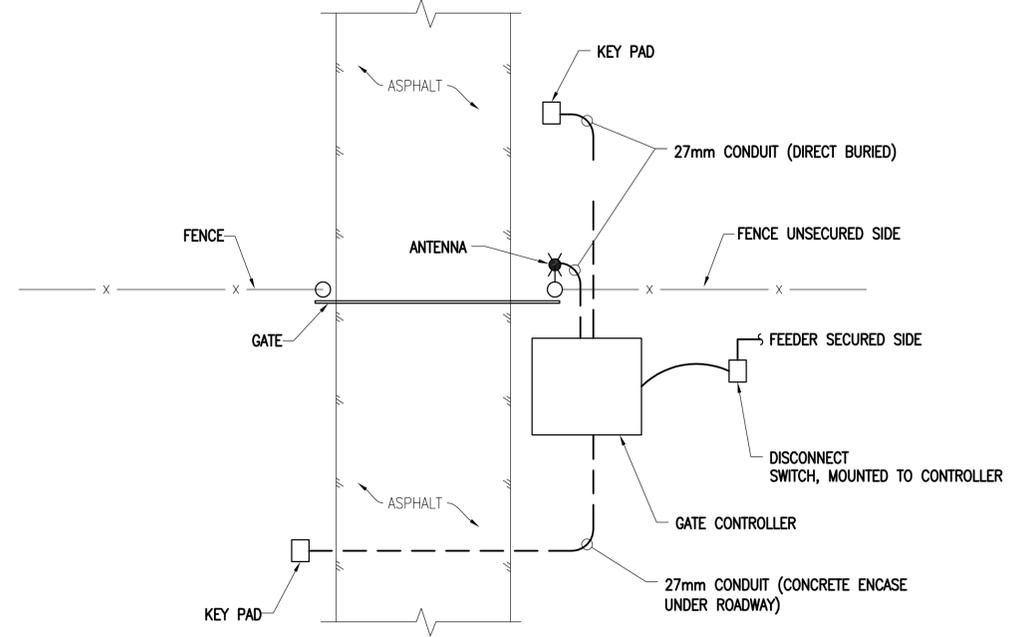
ELECTRICAL CABINET 6

SCALE: NONE



TYPICAL NMCI WALL PLATE CONFIGURATION

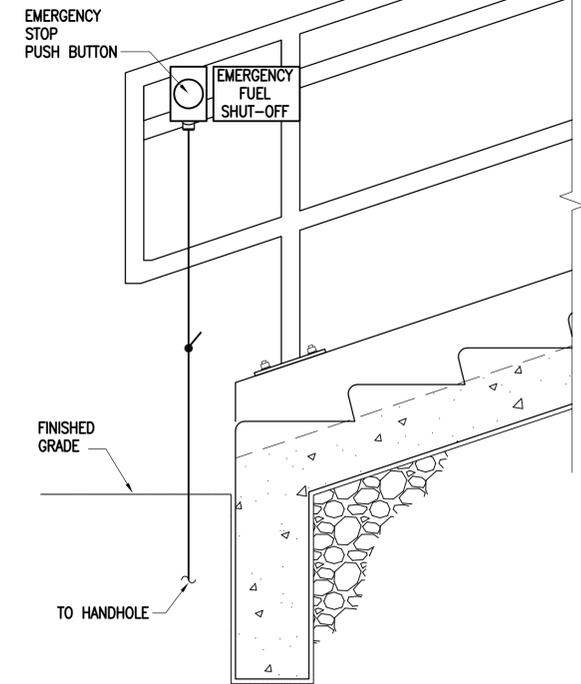
SCALE: NONE



GATE CONTROLLER ELECTRICAL INSTALLATION DIAGRAM

SCALE: NONE

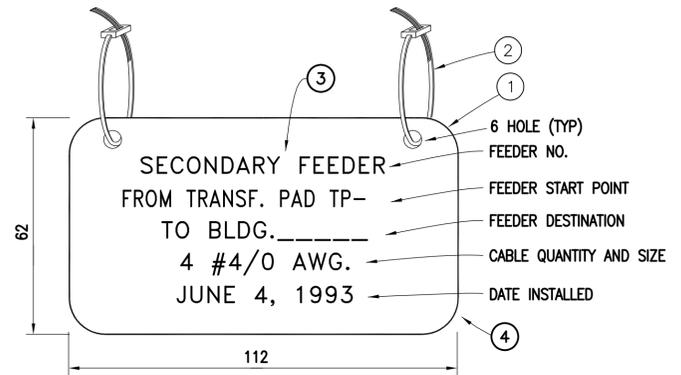
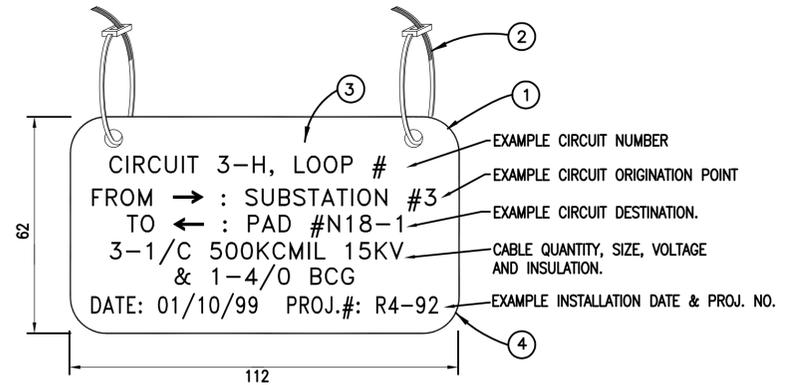
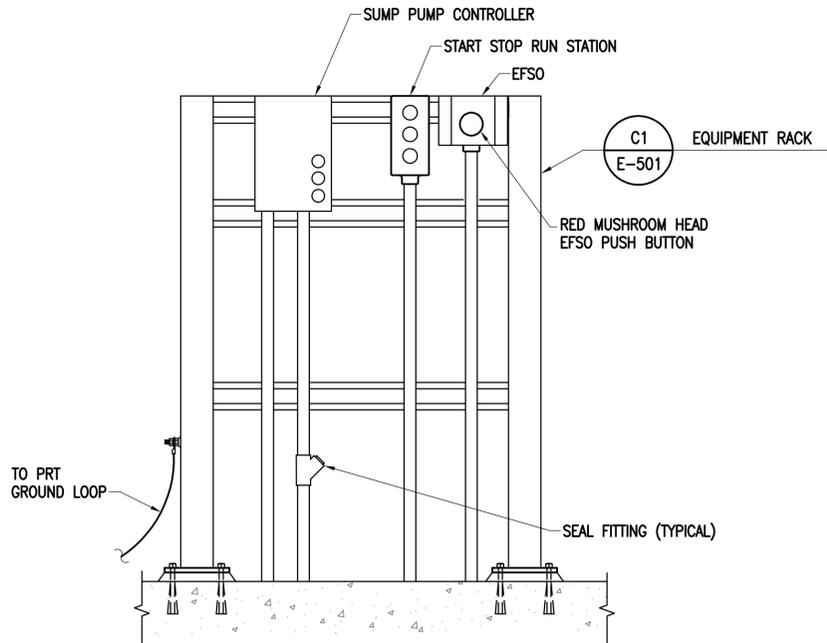
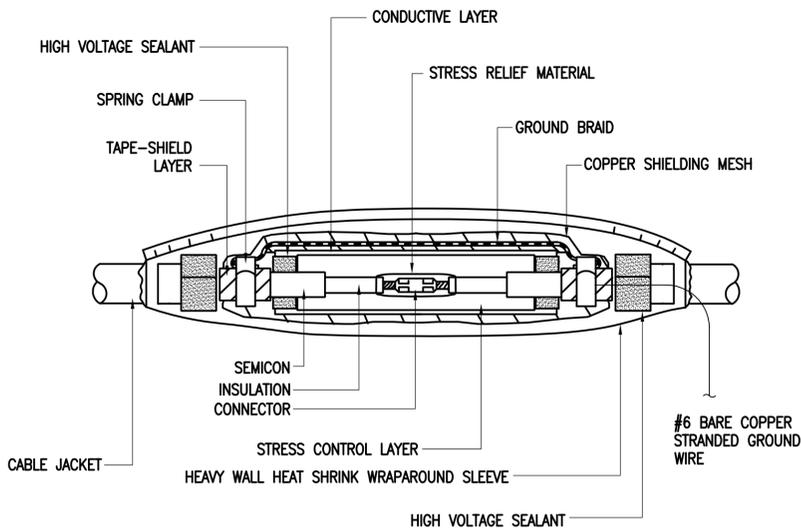
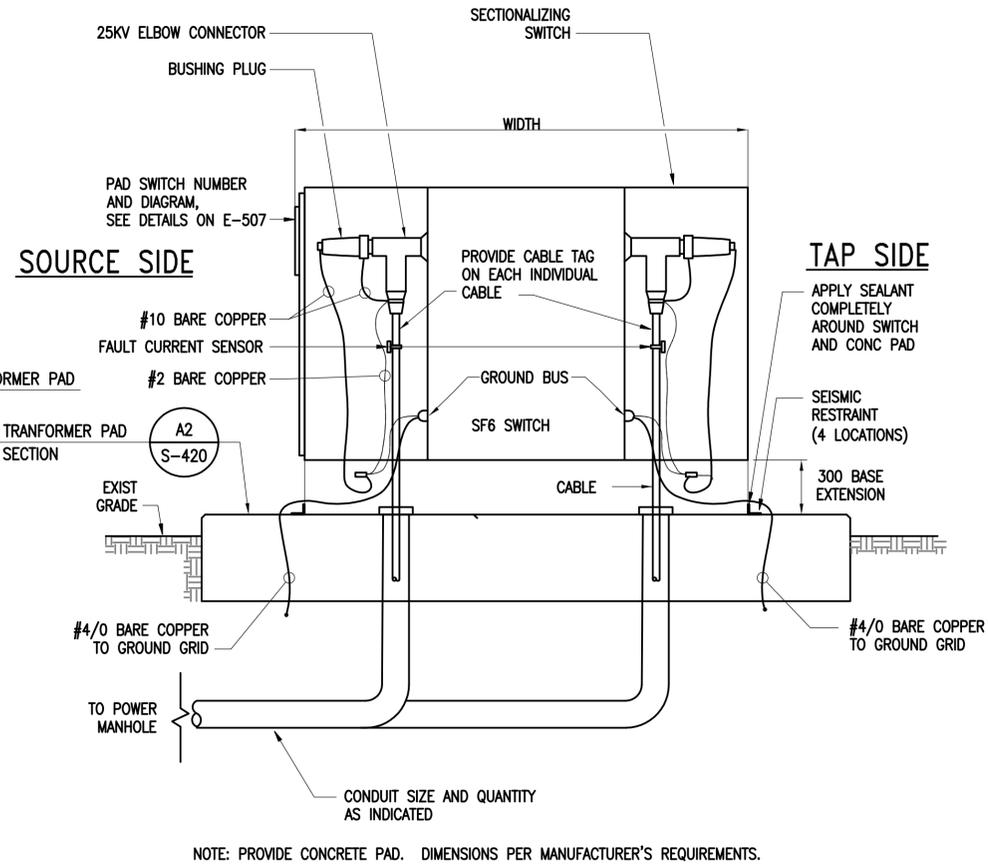
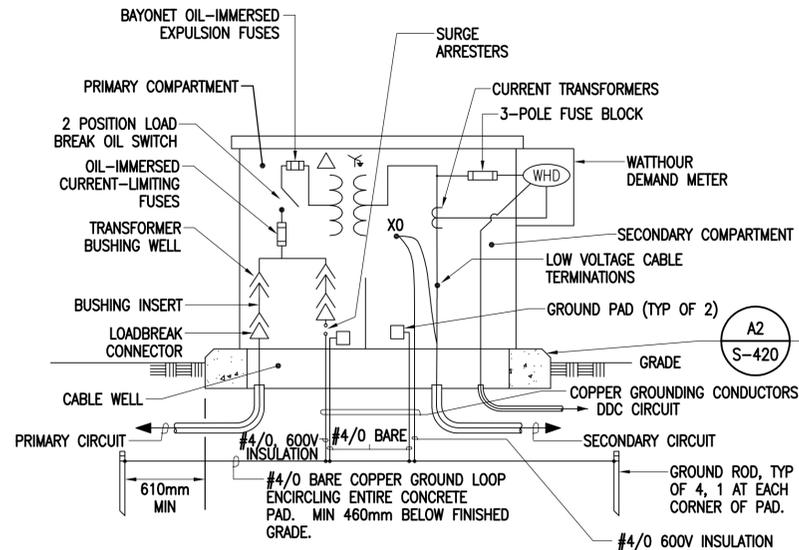
E-104 C4



EMERGENCY STOP

SCALE: NONE

APPROVED	DATE	APP'R
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO	DATE	
DES: RJK	DRW: WMC	CHK: CHM
<<PM/IMP>>		
BRANCH MANAGER		
CHIEF ENG/ARCH		
<<CR>>		
NAVAL FACILITIES ENGINEERING COMMAND		
NAVAL FACILITIES ENGINEERING COMMAND		
ATLANTIC DIVISION		
CAMP LEMONNIER		
DESC 1701/P-1701		
CONSTRUCT FUEL STORAGE FACILITIES		
ELECTRICAL DETAILS		
SCALE: AS NOTED		
PROJECT NO.:		
WORK ORDER NO.		
NAVFAC DRAWING NO.		
14047132		
SHEET 168 OF 186		
E-502		
DRAWFORM REVISION: 10 MARCH 2009		



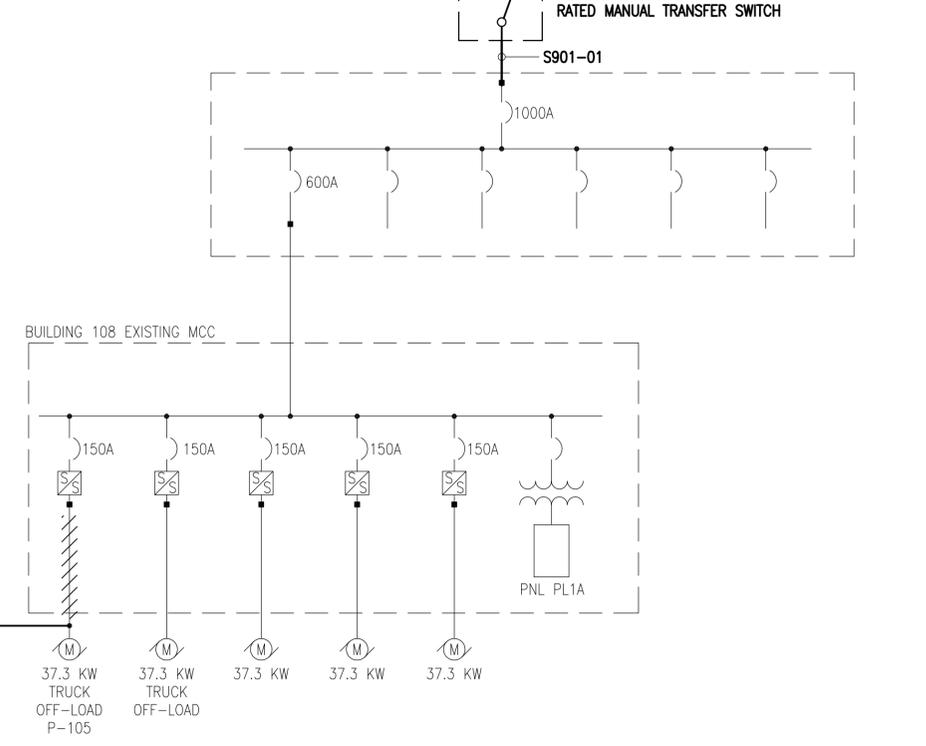
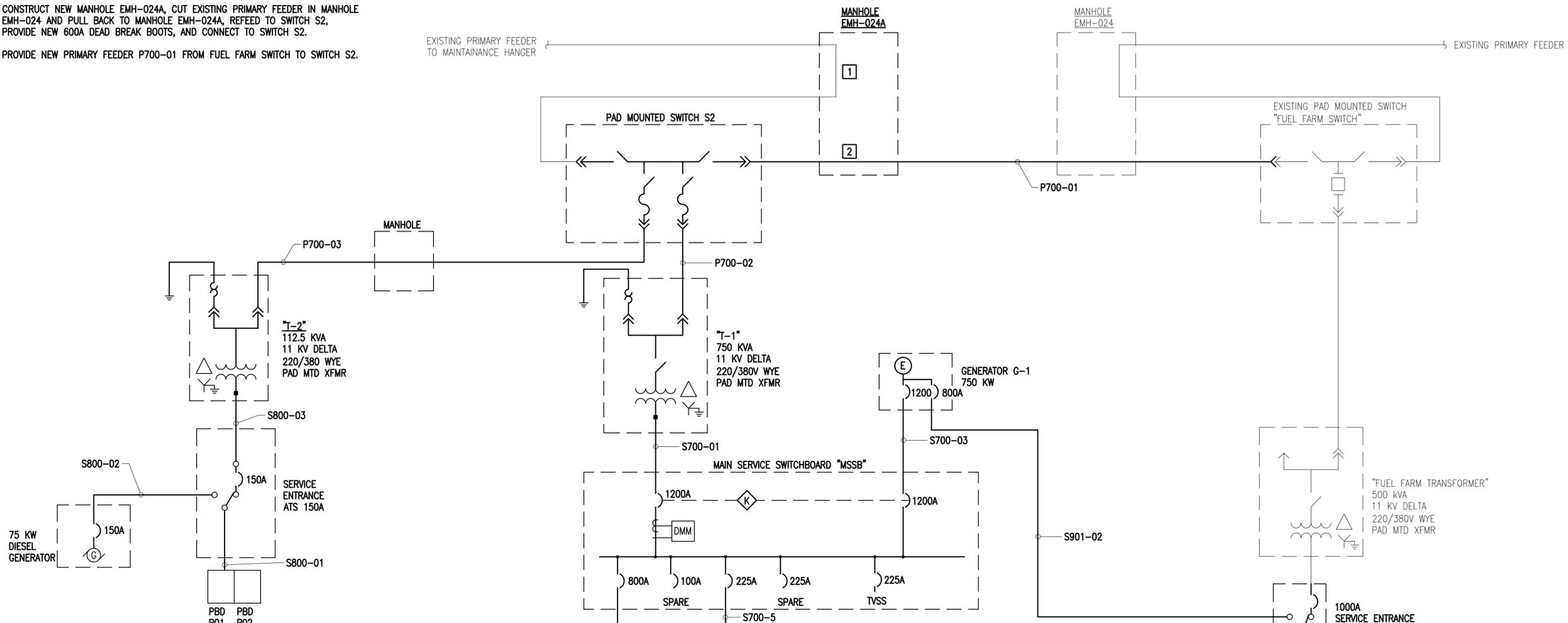
- PRIMARY/SECONDARY CABLE TAG KEYED NOTES:**
- 3mm THICK LAMINATED MELAMINE PLASTIC TAG. PROVIDE WITH MATTE WHITE BACKGROUND AND BLACK CHARACTERS.
 - TYPICAL SELF-LOCKING TYPE NYLON TIES FOR ATTACHING TAGS TO EACH CABLE.
 - ALL LETTERS AND NUMBERS 6 HIGH.
 - PROVIDE FOR ALL NEW CABLES IN ALL MANHOLES AND HANDHOLES. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION TO BE ENGRAVED. (ABOVE INFORMATION SAMPLE ONLY).

APPROVED	DATE	DESCRIPTION	SYN
APPROVED	DATE	DESCRIPTION	SYN
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO DATE			
DES	RJK	DRW	WMC/CHK CHM
<<PM/DR>>			
BRANCH MANAGER			
CHIEF ENG/ARCH			
<<CR>>			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION CAMP LEMONNIER NORFOLK, VIRGINIA DUBOULT AFRICA DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES DETAILS			
SCALE: AS NOTED			
PROJECT NO.:			
WORK ORDER NO.:			
NAVFAC DRAWING NO. 14047133			
SHEET 169 OF 186			
E-503			
DRAWFORM REVISION: 10 MARCH 2009			

FILE NAME: G:\14 Jobs\14-013 Djbouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\14-503 DETAILS.dwg LAYOUT NAME: DETAILS PLOTTED: Thursday, March 31, 2016 - 11:41am USER: wherrmann

NEW WORK NOTES - THIS SHEET:

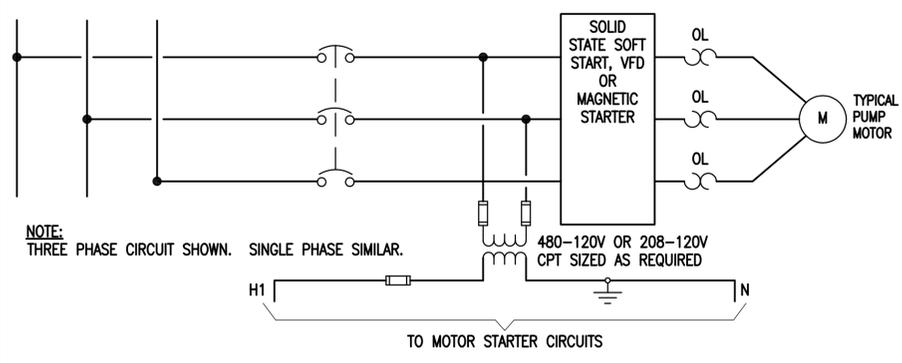
1. CONSTRUCT NEW MANHOLE EMH-024A, CUT EXISTING PRIMARY FEEDER IN MANHOLE EMH-024 AND PULL BACK TO MANHOLE EMH-024A, REFEED TO SWITCH S2, PROVIDE NEW 600A DEAD BREAK BOOTS, AND CONNECT TO SWITCH S2.
2. PROVIDE NEW PRIMARY FEEDER P700-01 FROM FUEL FARM SWITCH TO SWITCH S2.



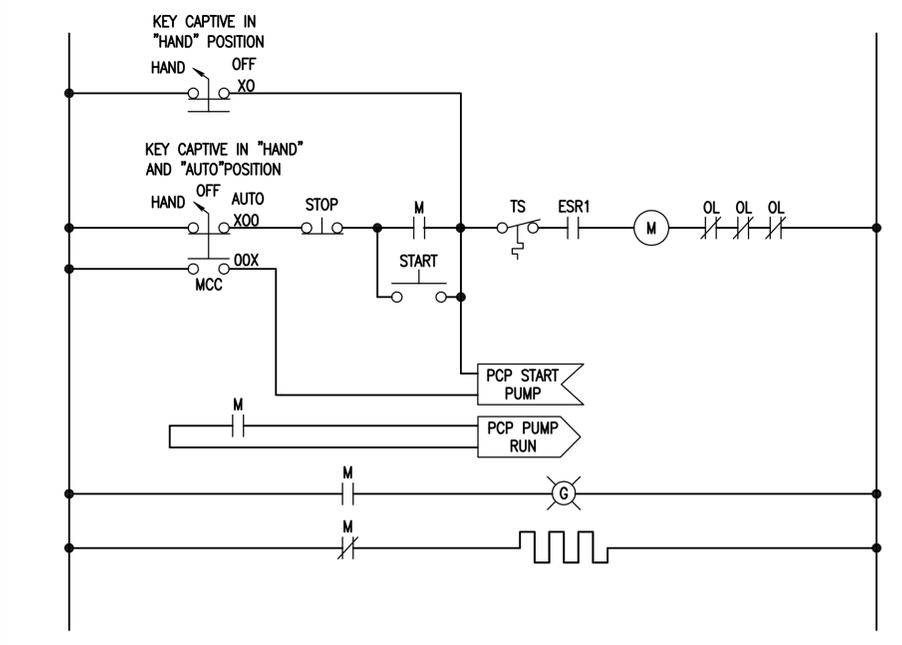
FILE NAME: G:\14 Jobs\14-013 Dhhouti - Fuel Storage Facility - NAVFAC LANT\04 AutoCAD\14-013 SINGLE LINE DIAGRAMS LAYOUT NAME: SINGLE LINE DIAGRAMS.dwg LAYOUT NAME: SINGLE LINE DIAGRAMS.dwg PLOTTED: Thursday, March 31, 2016 - 11:41am USER: wherrmann

APPR	DATE
SYN	DESCRIPTION
 NAVFAC COMMONWEALTH OF VIRGINIA RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER	
Austin Brockenbrough ENGINEERING - CONSULTING	
APPROVED	A/E INFO
FOR COMMANDER NAVFAC	ACTIVITY
SATISFACTORY TO DATE	
DES: RJK	DRW: WMG
CHK: CHM	
BRANCH MANAGER	
CHIEF ENG/ARCH	
<<CR>>	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION CAMP LEMONNIER NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA DUBOULT AFRICA DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES SINGLE LINE DIAGRAMS	
SCALE:	AS NOTED
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO.:	14047134
SHEET	170 OF 186
E-601	
DRAWFORM REVISION: 10 MARCH 2009	

FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\14-602 MOTOR CONTROL CIRCUIT WIRING DIAGRAMS.dwg LAYOUT NAME: MOTOR CONTROL CIRCUIT WIRING DIAGRAMS PLOTTED: Thursday, March 31, 2016 - 11:42am USER: wherrmann

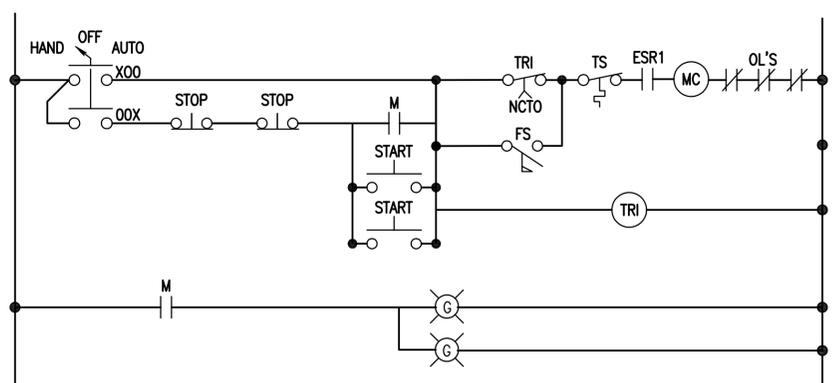


TYPICAL MOTOR STARTER CIRCUIT
SCALE: NONE

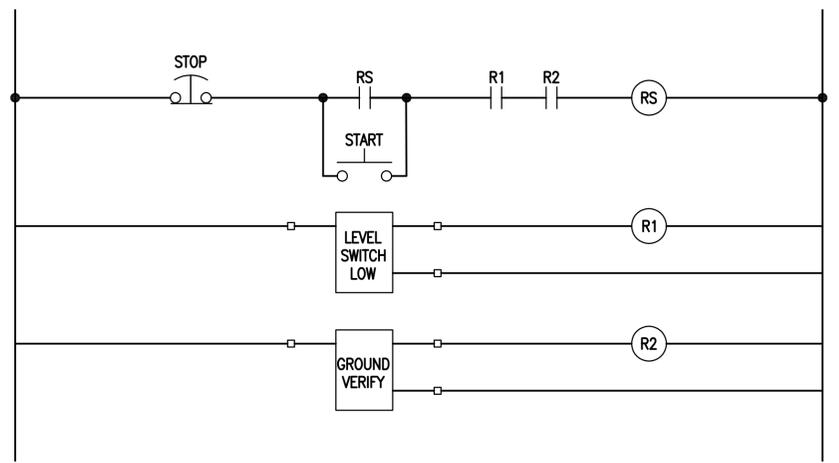


FUEL PUMP FP-501, 502, 503, 601, 602, 603
SCALE: NONE

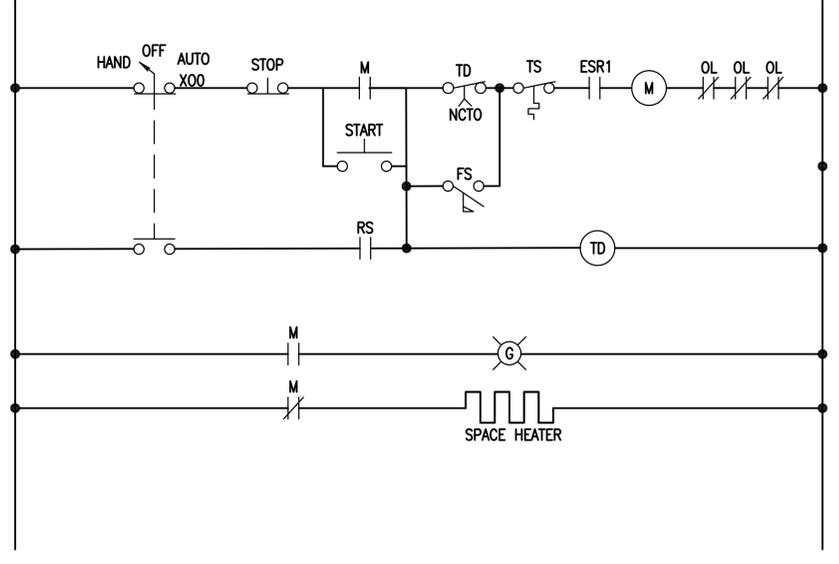
KEYED LOCKS FOR LOCAL HAND-AUTO SWITCHES AND CORRESPONDING MCC HOA SWITCHES SHALL BE KEYED ALIKE. KEYED LOCKS FOR HAND AUTO SWITCHES AND NON-CORRESPONDING MCC HOA SWITCHES SHALL NOT BE KEYED ALIKE.



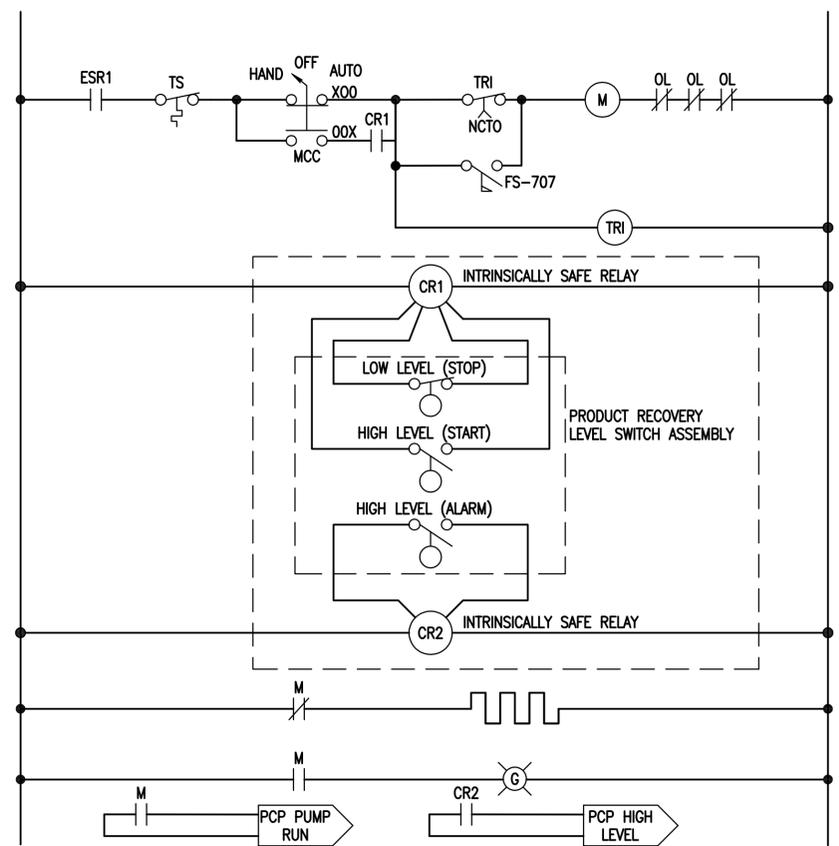
PUMPS WSP-501 AND WSP-601
SCALE: NONE



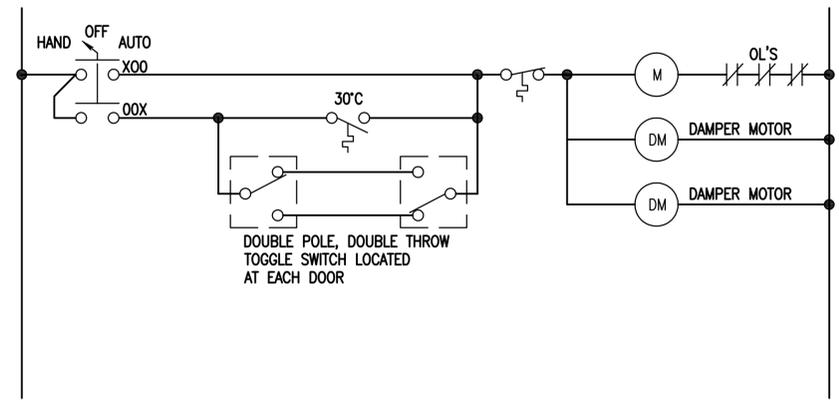
PLC MCC



TRUCK OFF-LOAD
SCALE: NONE



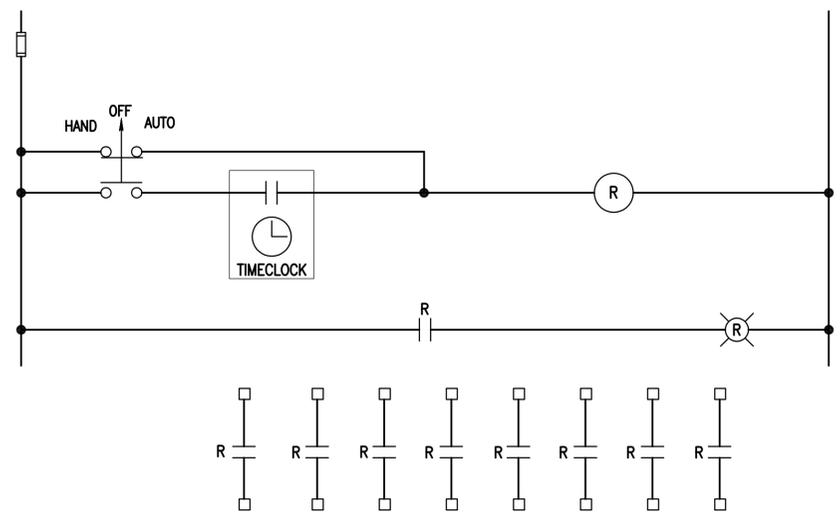
PRODUCT RECOVERY TANK P-707
SCALE: NONE



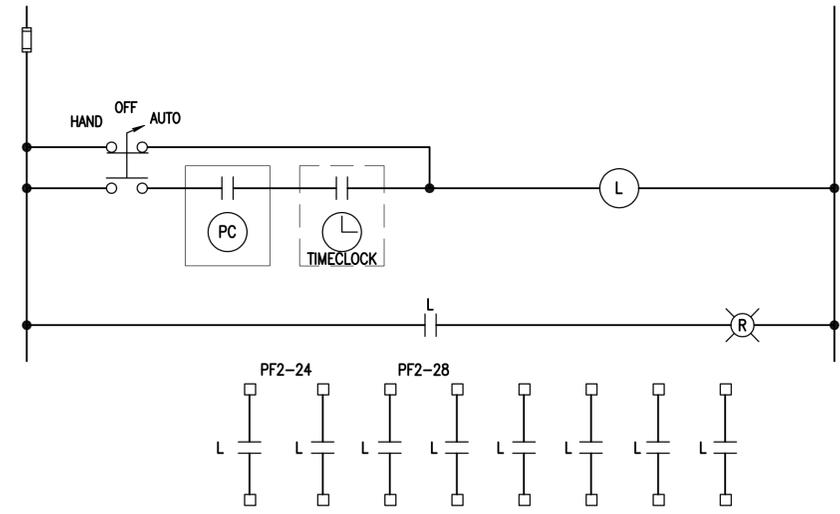
PUMPHOUSE AND FILTER BLDG EXHAUST FAN
SCALE: NONE

APPR	
DATE	
DESCRIPTION	
SYN	
 NAVFAC	
 RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER	
 Austin Brockenbrough ENGINEERING • CONSULTING	
APPROVED	A/E INFO
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES: RJK	DRW: WMG CHK: CHM
<<PM/IMP>>	
BRANCH MANAGER	
CHIEF ENG/ARCH	
<<<<>>	
NAVAL FACILITIES ENGINEERING COMMAND	
NAVFAC LANT/DAV	
ATLANTIC DIVISION	
CAMP LEMONNIER	
DUBOULT AFRICA	
DUBOULT AFRICA	
DESC 1701/P-1701	
CONSTRUCT FUEL STORAGE FACILITIES	
MOTOR CONTROL CIRCUIT WIRING DIAGRAMS	
SCALE: AS NOTED	
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO. 14047135	
SHEET 171 OF 186	
E-602	
DRAWFORM REVISION: 10 MARCH 2009	

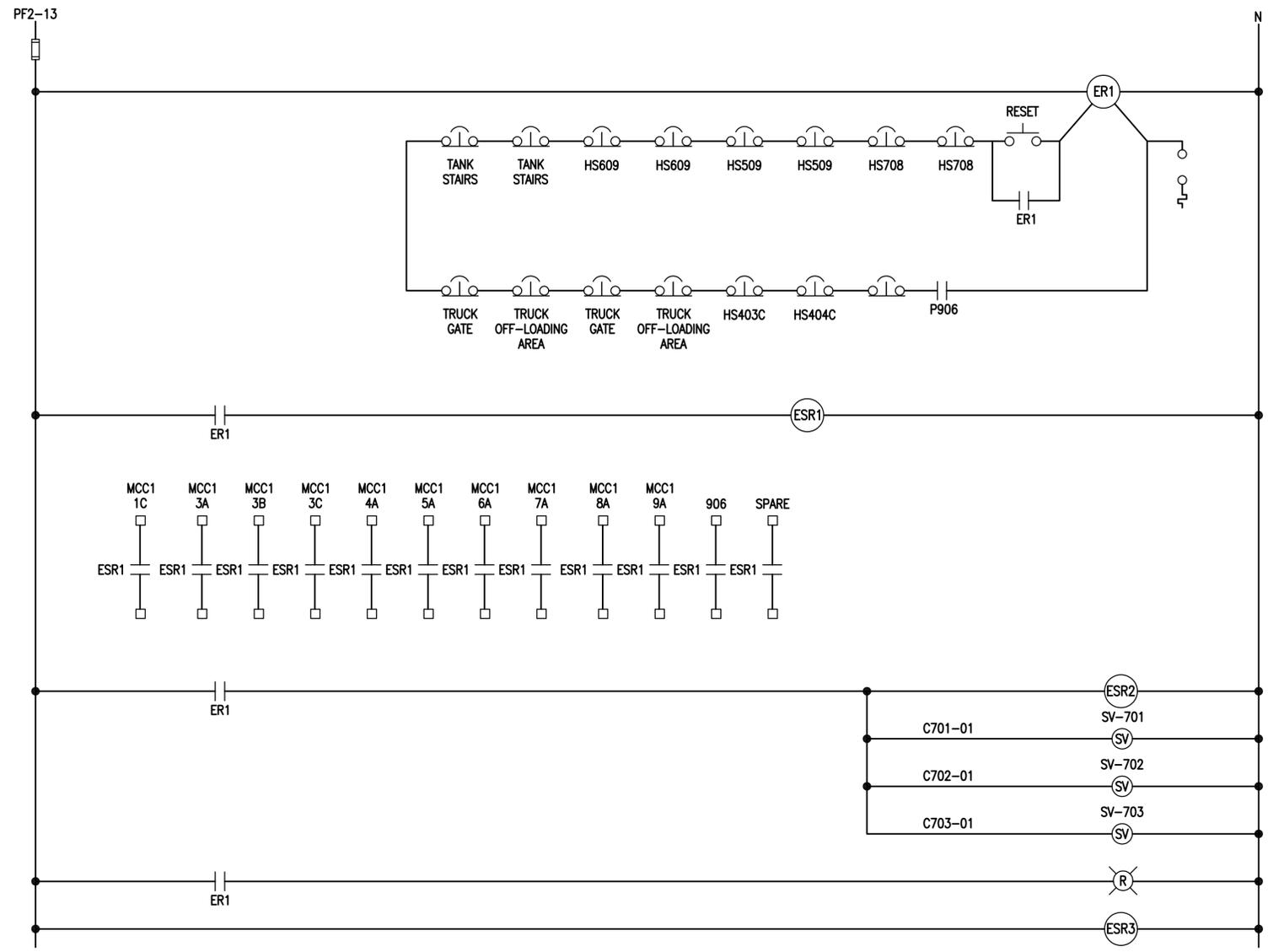
FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\14-603 MOTOR CONTROL CIRCUIT WIRING DIAGRAMS.dwg LAYOUT NAME: MOTOR CONTROL CIRCUIT WIRING DIAGRAMS.dwg PLOTTED: Thursday, March 31, 2016 - 11:42am USER: wherrmann



RECEPTACLE CONTROL
SCALE: NONE



SITE LIGHTING CONTROL
SCALE: NONE



EMERGENCY FUEL SHUT OFF (ESFO) WIRING DIAGRAM
SCALE: NONE

APPR	DATE
SYN	DESCRIPTION
 NAVFAC COMMONWEALTH OF VIRGINIA RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER	
Austin Brockenbrough ENGINEERING • CONSULTING	
APPROVED	A/E INFO
FOR COMMANDER NAVFAC ACTIVITY	
SATISFACTORY TO	DATE
DES: RJK	DRW: WMG
CHK: CHM	
BRANCH MANAGER	
CHIEF ENG/ARCH	
<<<X>>	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA DIBOUTI, AFRICA CAMP LEMONNIER DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES MOTOR CONTROL CIRCUIT WIRING DIAGRAM	
SCALE:	AS NOTED
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO.:	14047136
SHEET	172 OF 186
E-603	
DRAWFORM REVISION: 10 MARCH 2009	

PANELBOARD PF1 SCHEDULE

225 M.C.B., 380/220-VOLT, 3-PHASE, 4-WIRE, 14 KAIC MINIMUM, SURFACE MOUNT, PROVIDE FEED THRU LIGS

LOAD SERVED	LOAD (AMPS)			BKR TRIP	WIRE SIZE	CKT NO.	PHASE			CKT NO.	WIRE SIZE	BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C				A	B	C				A	B	C	
PUMP CONTROL PANEL	6.0			20	#12	1				2	#12	20	2.5			CONTROL ROOM LIGHTS
PUMP CONTROL PANEL		6.0		20		3				4	#12	20		9.7		FILTER ROOM LIGHTS
FILTER ROOM RECEPTACLES			3.0	20		5				6		20			0.0	SPARE
CONTROL ROOM RECEPTACLES	7.5			20		7				8		20				SPARE
CONTROL ROOM RECEPTACLES		6.0		20		9				10		20		0.0		SPARE
LEVEL ALARM CONTROL PANEL			2.0	20		11				12	#12	20			4.0	FIRE ALARM CONTROL PANEL*
EFSO PANEL	2.0			20		13				14	#12	20	4.0			FIRE ALARM CONTROL PANEL*
WATER COOLER		5.0		20		15				16		20		0.0		ATG BACKBOARD
OPERATORS STATION RECEPTACLE			3.0	20		17				18		20			0.0	SPARE
TELEPHONE RECEPTACLE	3.0			20		19				20		20	0.0			SPARE
SPARE		0.0		20		21				22		20		0.0		SPARE
SPARE			0.0	20		23				24		20		0.0		SPARE
SPACE	0.0					25				26			0.0			SPACE
SPACE		0.0				27				28			0.0			SPACE
SPACE			0.0			29				30			0.0			SPACE
SPACE	0.0					31				32			0.0			SPACE
SPACE		0.0				33				34	#6	60		15.0		PANELBOARD GA
AHU-11	7.1		1.0	15	#12	35				36	#8	40		1.0		SURGE PROTECTIVE DEVICE
AC-11		7.1		15	#12	37				38	#8	40		1.0		SURGE PROTECTIVE DEVICE
			7.1			39				40	#8	40			1.0	SURGE PROTECTIVE DEVICE
						41				42					1.0	SURGE PROTECTIVE DEVICE
TOTAL	25.6	24.1	16.1										7.5	25.7	20.0	TOTAL

TOTAL CONNECTED AMPS A: 33.1 B: 49.8 C: 36.1

PANELBOARD PF2 SCHEDULE

225A MLO, 380/220-VOLT, 3-PHASE, 4-WIRE, 14 KAIC MINIMUM, SURFACE MOUNT

LOAD SERVED	LOAD (AMPS)			BKR TRIP	WIRE SIZE	CKT NO.	PHASE			CKT NO.	WIRE SIZE	BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C				A	B	C				A	B	C	
PUMPHOUSE 5 LIGHTS	3.7			20	#10	1				2	#10	20	3.7			PUMPHOUSE 6 LIGHTS
PUMPHOUSE 5 RECEPTACLES		3.0		20	#10	3				4	#10	20		3.0		PUMPHOUSE 6 RECEPTACLES
PUMPHOUSE 5 SHOWER ALARM			1.5	20	#10	5				6	#10	20			1.5	PUMPHOUSE 6 ALARMS
PUMPHOUSE 5 ATG	1.5			20	#10	7				8	#10	20	1.5			PUMPHOUSE 6 ATG
TRUCK FILL 403 DEADMAN		1.5		20	#10	9				10	#10	20		1.0		PERSONEL GATE
TRUCK FILL 403 CANOPY LIGHTS			2.8	20	#10	11				12	#10	20			1.0	PERSONEL GATE
TRUCK FILL 404 DEADMAN	1.5			20	#10	13				14	#10	20	1.0			PERSONEL GATE
TRUCK FILL 404 CANOPY LIGHTS		2.8		20	#10	15				16		20		0.0		SPARE
PRT SUMP PUMP			5.0	20	#10	17				18		20			0.0	SPARE
TRUCK FILL STAND SHOWER ALRM	1.5			20	#10	19				20		20	0.0			SPARE
SPARE		0.0		20		21				22		20		0.0		SPARE
SPACE			0.0			23				24	#8	15			7.0	TRUCK PARKING LIGHTING
SPACE	0.0					25				26	#8	15		7.0		TRUCK PARKING LIGHTING
SPACE		0.0				27				28	#8	15		4.5		TRUCK FILL STAND LIGHTING
SPACE			0.0			29				30	#8	15			4.5	TRUCK FILL STAND LIGHTING
SPACE	0.0					31				32	#10	15	3.0			MOTORIZED GATE
MOTORIZED GATE		3.0		15	#10	33				34				3.0		MOTORIZED GATE
			3.0			35				36					3.0	MOTORIZED GATE
SPACE						37				38						SPACE
SPACE						39				40						SPACE
SPACE						41				42						SPACE
TOTAL	11.2	10.3	12.3										16.2	11.5	17.0	TOTAL

TOTAL CONNECTED AMPS A: 27.4 B: 21.8 C: 29.3

PANELBOARD PO1 SCHEDULE

150A, M.C.B., 380Y/220-VOLT, 3 PHASE, 4 WIRE, 14 KAIC MINIMUM, SURFACE MOUNT, PROVIDE FEED THRU LIGS

LOAD SERVED	LOAD (AMPS)			BKR TRIP	WIRE SIZE	CKT NO.	PHASE			CKT NO.	WIRE SIZE	BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C				A	B	C				A	B	C	
LIGHTING NORTH	8.5			20	#12	1				2	#12	20	5.0			WORK STATION RECEPTACLES
LIGHTING SOUTH		4.0		20	#12	3				4	#12	20		5.0		WORK STATION RECEPTACLES
EGRESS LIGHTING			3.1	20	#12	5				6	#12	20			5.0	WORK STATION RECEPTACLES
FUEL LAB RECEPTACLES	5.0			20	#12	7				8	#12	20	5.0			WORK STATION RECEPTACLES
FUEL LAB RECEPTACLES		5.0		20	#12	9				10	#12	20		6.0		COPIER RM 103
FUEL LAB RECEPTACLES			5.0	20	#12	11				12	#12	20			6.0	RECEPTACLES RM 105, 106
FUEL LAB DISHWASHER	5.5			20	#12	13				14	#12	20	6.0			RECEPTACLES RM 102, 104
FUEL LAB HOOD		5.0		20	#12	15				16	#12	20		6.0		RECEPTACLES RM 109
TELECOM RECEPTACLES			5.0	20	#12	17				18	#12	20			0.0	RECEPTACLES RM 113, 114, 108
TELECOM RECEPTACLES	5.0			20	#12	19				20	#12	20	0.0			RECEPTACLES RM 111, 112, 108
ELECT ROOM RECEPTACLES		5.0		20	#12	21				22	#12	20		0.0		RECEPTACLES RM 115
FIRE ALARM CONTROL PANEL*			0.0	20	#12	23				24	#12	20			4.5	RECEPTACLES RM 107
FIRE ALARM CONTROL PANEL*	0.0			20	#12	25				26	#12	20	0.0			QUAD RECEPTACLE RM 107
SPARE		0.0		20		27				28	#12	20		0.0		ALARM RM 107
SPACE			0.0			29				30		20			0.0	SPARE
SPACE	0.0					31				32		20	0.0			SPARE
SPACE		0.0				33				34		20		0.0		SPARE
SWITCHED RECEPTACLES 103			6.0	20	#12	35				36		20				SPARE
SWITCHED RECEPTACLES 105,106	9.0			20	#12	37				38		40	1.0			SURGE PROTECTIVE DEVICE
SWITCHED RECEPTACLES 103,106		6.0		20	#12	39				40	#8			1.0		SURGE PROTECTIVE DEVICE
SWITCHED RECEPTACLES 107,109			9.0	20	#12	41				42					1.0	SURGE PROTECTIVE DEVICE
TOTAL	33.0	25.0	28.1										17.0	18.0	16.5	TOTAL

TOTAL CONNECTED AMPS A: 50.0 B: 43.0 C: 44.6

PANELBOARD PO2 SCHEDULE

225A, MAIN LUGS ONLY, 380Y/220-VOLT, 3 PHASE, 4 WIRE, 14 KAIC MINIMUM, SURFACE MOUNT

LOAD SERVED	LOAD (AMPS)			BKR TRIP	WIRE SIZE	CKT NO.	PHASE			CKT NO.	WIRE SIZE	BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C				A	B	C				A	B	C	
RM 115 ICEMAKER	6.0			20	#12	1				2	#12	15				SPARE
RM 115 REFRIGERATOR		6.0		20	#12	3				4	#12	15		3.1		AC-2/AHU-2
RM 115 COUNTER RECEPTACLES			6.0	20	#12	5				6	#10	25			16.2	AC-3/AHU-3
RM 115 COUNTER RECEPTACLES	6.0			20	#12	7				8	#12	15	5.7			AC-4/AHU-4
EWC		3.0		20	#12	9				10	#12	15		3.1		AC-5/AHU-5
SPARE				20		11				12	#12	15			7.9	AC-6/AHU-6
SPARE				20		13				14	#12	15	3.1			AC-7/AHU-7
EXHAUST FAN EF-6		1.0		20	#12	15				16	#12	15		3.1		AC-8/AHU-8
SPARE			0.0	20		17				18	#12	15			3.1	AC-9/AHU-9
SPARE	0.0			20		19				20	#12	15	3.1			AC-10/AHU-10
SPARE		0.0		20		21				22	#12	15		12.0		AC-11/AHU-11
SPACE			0.0			23				24		20			0.0	SPARE
SPACE	0.0					25				26		20		0.0		SPARE
PARKING LOT LIGHTING		2.1		15	#12	27				28		20		0.0		SPARE
			2.1			29				30		20		0.0		SPARE
AC-1	7.4			15	#12	31				32		20				SPARE
		7.4				33				34		20				SPARE
			7.4			35				36		20				SPARE
WATER HEATER WH-1	6.8			15	#12	37				38		25	17.8			DEDICATED OUTSIDE AIR SUPPLY
		6.8				39				40	#10			17.8		
			6.8			41				42					17.8	
TOTAL	26.2	26.3	22.3										29.7	39.1	45.0	TOTAL

TOTAL CONNECTED AMPS A: 55.9 B: 65.4 C: 67.3

INTRINSICALLY SAFE CONTROL CIRCUIT SCHEDULE

CKT NO	SOURCE	DESTINATION	CONDUCTORS	CONDUIT	REMARKS
IS500-01	LEVEL SWITCH LSHH-506, LSH-506	PUMP CONTROL PANEL	6C/#12	21mm	
IS500-02	LEVEL SWITCH LSL-506, LSL-506	PUMP CONTROL PANEL	6C/#12	21mm	
IS600-01	LEVEL SWITCH LSHH-606, LSH-606	PUMP CONTROL PANEL	6C/#12	21mm	
IS600-02	LEVEL SWITCH LSL-606, LSL-606	PUMP CONTROL PANEL	6C/#12	21mm	

DATE: _____

SYN: _____

DESCRIPTION: _____



COMMONWEALTH OF VIRGINIA
RALPH JEFFERSON KEITH
Lic. No. 018747
PROFESSIONAL ENGINEER

Austin
Brockenbrough
ENGINEERING - CONSULTING

APPROVED: _____

FOR COMMANDER NAVFAC

ACTIVITY: _____

SATISFACTORY TO: _____ DATE: _____

DES: RJK DRW: WMG CHK: CHM

BRANCH MANAGER: _____

CHIEF ENG/ARCH: _____

NAVFACILITIES ENGINEERING COMMAND
NAVFACILITIES ENGINEERING COMMAND
DUBOULT AFRICA
DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES
SCHEDULES

SCALE: AS NOTED

PROJECT NO.: _____

WORK ORDER NO.: _____

NAVFAC DRAWING NO.: 14047137

SHEET 173 OF 186

E-604

DRAWING REVISION: 10 MARCH 2009

FILE NAME: G:\14 Jobs\14-013 Dlubout - Fuel Storage Facility - NAVFAC LANTCOM AutoCAD\14-604 SCHEDULES.dwg LAYOUT NAME: SCHEDULES PLOTTED: Thursday, March 31, 2016 - 11:42am USER: wherriman

NO	LOAD	LOAD (AMPS)	LOAD KW	FEEDERS			CIRCUIT VOLTAGE PHASE	STARTER SIZE/TYPE	OVERCURRENT PROTECTION		CIRCUIT NUMBER	REMARKS
				WIRE	GND	CONDUIT			TYPE	CONT AMPS		
1A	BLANK											
1B	BLANK											
1C	TRUCK OFF LOAD PUMP P-105	83	38	#2/0	#6	41mm	380/3	RVSS	CB	150		
2A	FAN	2.3	0.75	#12	#12	19mm	380/3	1/FVNR	CB	70		
2B	FAN	2.3	0.75	#12	#12	19mm	380/3	1/FVNR	CB	60		
2C	SPARE						380/3	2/FVNR	CB	30		
2D	BLANK											
3A	PUMP WTP-504	6.1	3	#12	#12	19mm	380/3	1/FVNR	CB	15		
3B	PUMP WTP-604	6.1	3	#12	#12	19mm	380/3	1/FVNR	CB	15		
3C	PUMP P-707	6.1	3	#12	#12	19mm	380/3	1/FVNR	CB	15		
3D	SPARE						380/3	1/FVNR	CB	15		
3E	BLANK											
3F	BLANK											
4A	FUEL PUMP FP-603	165	75	#4/0	#2	76mm	380/3	RVSS	CB	350		
5A	FUEL PUMP FP-602	165	75	#4/0	#2	76mm	380/3	RVSS	CB	350		
6A	FUEL PUMP FP-601	165	75	#4/0	#2	76mm	380/3	RVSS	CB	350		
7A	FUEL PUMP FP-503	165	75	#4/0	#2	76mm	380/3	RVSS	CB	350		
8A	FUEL PUMP FP-502	165	75	#4/0	#2	76mm	380/3	RVSS	CB	350		
9A	FUEL PUMP FP-501	165	75	#4/0	#2	76mm	380/3	RVSS	CB	350		
10A	SPARE	--	--	--	--	--	380/3	1/FVNR	CB	15		
10B	METERING	--	--	--	--	--						NOTE 1
10C	SPD	--	--	--	--	--						NOTE 1
10D	INCOMING	--	--	--	--	--			MLO	1200		

TOTAL CONNECTED LOAD 1096A

NOTES:

1. MANUFACTURER SHALL INSTALL STANDARD OCPD FOR THIS EQUIPMENT.

	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SECTION 7	SECTION 8	SECTION 9	SECTION 10
A	1A	2A	3A	4A	5A	6A	7A	8A	9A	10A
B	1B	2B	3B							10B
C	1C	2C	3C							10C
D		2D	3D							10D
E			3E							
F			3F							

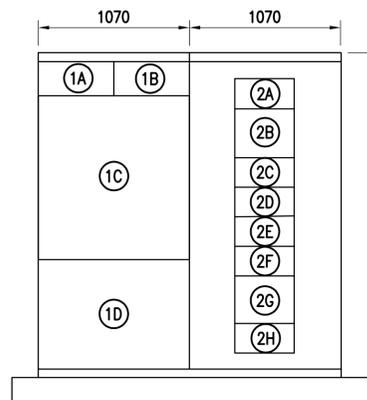
MOTOR CONTROL CENTER (MCC1) SCHEDULE & ELEVATION

SCALE: NONE

VOLTS:360/220 3 PHASE 4 WIRE BUS: 1200A NEUT:1200A GND BUS BRACING: 65,000A											
NO	LOAD	AMPS FRAME	AMPS TRIP	DEVICE	FEEDERS					REMARKS	
					CIRCUIT NUMBER	NO CONDUITS	CONDUIT SIZE	WIRE	GND		
1A	MULTI METER										
1B	SURGE PROTECTION DEVICE										
1C	MAIN BREAKER	1200	1200	ICCB	--	--	--	--	--		NOTE 1
1D	INCOMING TERMINATION	1200	--	ML	4	78mm	4 - #350 KCMIL	#3/0			
2A	SPACE										
2B	GENERATOR BREAKER	1200	1200	MCCB	4	78mm	4 - #350 KCMIL	#3/0			NOTE 1
2C	SPACE										
2D	PANELBOARD	225	225	MCCB	1	78mm	4 - #4/0	#4			
2E	SPARE	225	225	MCCB							
2F	SPARE	225	100	MCCB							
2G	MCC 1	1200	1200	MCCB	4	78mm	4 - #350 KCMIL	#3/0			
2H	SPACE										

NOTE:

1. KIRK KEY INTERLOCK



MAIN SERVICE SWITCHBOARD SCHEDULE & ELEVATION

SCALE: NONE

LIGHTING FIXTURE SCHEDULE					
FIXTURE SYMBOL	SKETCH NO & TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING	NOTES
△A	DETAIL A1/E-701	LED	220	PENDENT +2.13m AFF	-
△B	DETAIL C1/E-701	LED	220	RECESSED	-
△C	DETAIL C2/E-701	LED	220	RECESSED	-
△D	DETAIL C4/E-701	LED	220	SURFACE CEILING	-
△E	DETAIL A2/E-702	LED	220	SURFACE CEILING	-
△F	NL-69	(1) 175W MH	220	PENDENT +4.27m AFF	-
△G	NL-69	(1) 50W LED	220	SURFACE CEILING	CLASS 1, DIV II
△H	XL-03	(1) 350W MH	380	POLE +9.0m AFG	TYPE 3 DISTRIBUTION
△I	XL-03	(1) 350W MH	380	POLE +9.0m AFG	TYPE 4 DISTRIBUTION
△J	NL-63	LED	220	UNIVERSAL	-
△K	DETAIL A3/E-701	LED	220	WALL +3m AFF	-
△L	DETAIL A3/E-701	LED	220	WALL +3m AFF	WITH 900 LUMEN REMOTE EMERGENCY BALLAST
△M	NL-65	(2) 12W HALOGEN	220	WALL +2.5m AFF	CLASS 1 DIV 1 LOCATION
△N	NL-66	(1) 12W HALOGEN	220	WALL +2.5m AFF	CLASS 1 DIV 1 LOCATION
△O	DETAIL C3/E-701	LED	220	RECESSED CEILING	-
△P	DETAIL A4/E-701	LED	220	UNDERCABINET	-

APPROVED: _____ DATE: _____

DESCRIPTION: _____

SYN: _____

COMMONWEALTH OF VIRGINIA
RALPH JEFFERSON KEITH
Lic. No. 018747
PROFESSIONAL ENGINEER

Austin
Brockenbrough
ENGINEERING + CONSULTING

APPROVED: _____ FOR COMMANDER NAVFAC ACTIVITY: _____

SATISFACTORY TO: _____ DATE: _____

DES: RJK | DRW: WMG | CHK: CHM

BRANCH MANAGER: _____

CHIEF ENG/ARCH: _____

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVFAC LANT/COMNAVSTA
NAVFACILITIES ENGINEERING COMMAND
NAVFACILITIES ENGINEERING COMMAND
DUBOULT, VIRGINIA
DUBOULT, AFRICA
CAMP LEMONNIER
DESC 1701/P-1701
CONSTRUCT FUEL STORAGE FACILITIES
MCC & SWITCHBOARD SCHED & ELEVATIONS

SCALE: AS NOTED
PROJECT NO.: _____
WORK ORDER NO.: _____

NAVFAC DRAWING NO.: 14047138
SHEET 174 OF 186
E-605

DRAWING REVISION: 10 MARCH 2009

FILE NAME: G:\14 Jobs\14-013 Djbouti - Fuel Storage Facility - NAVFAC LANT/COMNAVSTA/E-605 MCC & SWITCHBOARD SCHED & ELEVATIONS.dwg LAYOUT NAME: MCC & SWITCHBOARD SCHED & ELEVATIONS PLOTTED: Thursday, March 31, 2016 - 11:42am USER: wherrmann

FILE NAME: G:\14 Jobs\14-013 Djbouti - Fuel Storage Facility - NAVFAC LANTCOM AutoCAD\14-013 E-606 CONTROL SCHEDULES.dwg PLOTTED: Thursday, March 31, 2016 - 11:43am USER: wherrmann

POWER SCHEDULE

CKT NO	SOURCE	DESTINATION	NUMBER	CONDUIT	CONDUCTOR	REMARKS
P700-01	EXIST FUEL FARM SWITCH	FUEL FARM PAD SWITCH S2	1	155mm	3-500KCMIL, #4/0 G	MV-105
P700-02	FUEL FARM PAD SWITCH S2	FUEL FARM XFMR T-1	1	155mm	3-#4/0, #4/0 G	MV-105
P700-03	FUEL FARM PAD SWITCH S2	OPS BUILDING XFMR T-2	1	155mm	3-#4/0, #4/0 G	MV-105
S301-01	MCC1-1C	EXIST TRUCK OFF LOAD PUMP P-105	1	41mm	3-#2/0, #6 G 2-#10	
S403-01	PANELBOARD PF2-9	TRUCK FILLSTAND 403 DEADMAN	1	21mm	2-#10, #10 G	
S403-02	PANELBOARD PF2-11	TRUCK FILLSTAND 403 CANOPY LIGHTS	1	21mm	2-#10, #10 G	
S404-01	PANELBOARD PF2-13	TRUCK FILLSTAND 404 DEADMAN	1	21mm	2-#10, #10 G	
S404-02	PANELBOARD PF2-15	TRUCK FILLSTAND 404 CANOPY LIGHTS	1	21mm	2-#10, #10 G	
S404-03	PANELBOARD PF2-28	TRUCK FILLSTAND AREA LIGHTING	1	35mm	2-#8, #8G	
S404-04	PANELBOARD PF2-10	AIRFIELD PERSONNEL GATE	1	21mm	2-#10, #10 G	
S405-01	PANELBOARD PF2-19	TRUCK FILLSTAND SHOWER ALARM	1	21mm	2-#10, #10 G	
TANK 5						
S500-01	MCC1-2A	FAN	1	21mm	3-#12, #12 G	
S500-02	MCC1-2A	MOTORIZED DAMPER	1	21mm	2-#12, #12 G	
S500-03	PANELBOARD PF2-1	PUMP ROOM 5 LIGHTS	1	21mm	2-#12, #12 G	
S500-04	PANELBOARD PF2-3	PUMP ROOM 5 RECEPTACLES	1	21mm	2-#12, #12 G	
S500-05	PANELBOARD PF2-5	PUMP ROOM 5 ALARMS	1	21mm	2-#12, #12 G	
S500-06	PANELBOARD PF2-7	PUMP ROOM 5 ATG	1	21mm	2-#12, #12 G	
S501-01	MCC1-9A	PUMP FP-501	1	78mm	3-#4/0, #2 G 2-#10	
S502-01	MCC1-8A	PUMP FP-502	1	78mm	3-#4/0, #2 G 2-#10	
S503-01	MCC1-7A	PUMP FP-503	1	78mm	3-#4/0, #2 G 2-#10	
S504-01	MCC1-3A	PUMP WSP-501	1	21mm	3-#12, #12 G,	
TANK 6						
S600-01	MCC1-2B	FAN	1	21mm	3-#12, #12 G	
S600-02	MCC1-2B	MOTORIZED DAMPER	1	21mm	2-#12, #12 G	
S600-03	PANELBOARD PF2-2	PUMP ROOM 6 LIGHTS	1	21mm	2-#12, #12 G	
S600-04	PANELBOARD PF2-4	PUMP ROOM 6 RECEPTACLES	1	21mm	2-#12, #12 G	
S600-05	PANELBOARD PF2-6	PUMP ROOM 6 ALARMS	1	21mm	2-#12, #12 G	
S600-06	PANELBOARD PF2-8	PUMP ROOM 6 ATG	1	21mm	2-#12, #12 G	
S601-01	MCC1-6A	PUMP FP-601	1	78mm	3-#4/0, #2 G 2-#10	
S602-01	MCC1-5A	PUMP FP-602	1	78mm	3-#4/0, #2 G 2-#10	
S603-01	MCC1-4A	PUMP FP-603	1	78mm	3-#4/0, #2 G 2-#10	
S604-01	MCC1-3B	PUMP WSP-601	1	21mm	3-#12, #12 G,	
FILTER BUILDING						
S700-01	TRANSFORMER T-1	SWITCHBOARD MSSB	4	103mm	4-#350 KCMIL	
S700-02	SWITCHBOARD MSSB	MCC1-10D	4	78mm	4-#350 KCMIL, #3/0 G	
S700-03	SWITCHBOARD MSSB	GENERATOR G-1	4	78mm	4-#350 KCMIL, #3/0 G	
S700-04	SWITCHBOARD MSSB	GENERATOR G-1 ACC PANEL PG1	1			
S700-05	SWITCHBOARD MSSB	PANEL PF1	1	78mm	4-#4/0, #4 G	
S700-06	PANELBOARD PF2-12	PERSONNEL GATE			2-#10, #10 G	
S700-07	PANELBOARD PF2-14	PERSONNEL GATE			2-#10, #10 G	
S700-08	MCC1-1A	EXHAUST FAN EF-1	1	21mm	3-#12, #12 G	
S700-09	MCC1-1A	MOTORIZED DAMPERS	1	21mm	3-#12, #12 G	
S700-10	PANELBOARD PF2-16	PERSONNEL GATE				
S700-11	PANELBOARD PF2-18	PERSONNEL GATE				
S707-00	MCC1-3C	PRODUCT RECOVERY PUMP P-707	1	21mm		
S707-01	PANELBOARD PF2-17	PRODUCT RECOVERY SUMP PUMP	1	21mm	3-#12, #12G	
S800-01	TRANSFORMER T-2	OPS BLDG SERVICE LISTED ATS	1	53mm	4 #1/0	
S800-02	GENERATOR G-2	OPS BLDG SERVICE LISTED ATS	1	53mm	4 #1/0, #6 G	
S800-03	OPS BLDG SERVICE LISTED ATS	PANEL P01	1	53mm	4 #1/0, #6 G	
S901-01	P901 SERVICE LISTED ATS	PANEL MDP	3	78mm	4 500KCMIL, #3/0 G	
S901-02	GENERATOR G1	P901 SERVICE LISTED ATS	2	103mm	4-500 KCMIL, #2/0 G	

CABLE SCHEDULE

EXIST CABLE IDENTIFICATION	NEW CABLE IDENTIFICATION	DESCRIPTION	CONDUIT SIZE	REMARKS
	1	C00-00	53	
	2	C00-01	53	
	3	C00-00, C00-01	53	
	4	155 EMPTY CONDUIT	155	
	5	103 EMPTY CONDUIT	103	
	6	53 EMPTY CONDUIT	53	
	7	P700-01	155	
	8	P700-02	155	
P	9	S700-01	103	
	10	C301-02, C301-03, C301-04, C301-06	53	
	11	S301-01	53	
	12	C403-01, C404-01, C405-01	53	
	13	S403-01, S403-02, S404-01, S404-02	53	
	14	S700-04	53	
	15	GENERATOR CONTROLS	53	
	16	S501-01	78	
	17	S502-01	78	
	18	S503-01	78	
	19	S500-01, S500-02, S504-01	53	
	20	S500-01, S500-02, S500-03, S500-04, S500-05, S500-06	53	
	21	C501-01, C501-03, C502-01, C502-03, C503-01, C503-03, C504-01, C504-03	53	
	22	C501-02, C502-02, C503-02, C504-02, C500-04, C505-01, C505-02, C508-01	53	
	23	P700-03	53	
A		7-4mm2, 1-4mm2 G	27	
B		2-4mm2, 1-4mm2 G	27	
C		7-4mm2, 1-4mm2 G	27	
D		2-4mm2, 1-4mm2 G	27	
E		EMPTY DUCT	27	
	24	C401-01, C402-02	27	
	25	C402-01	27	
	26	S601-01	78	
	27	S602-01	78	
	28	S603-01	78	
	29	S600-01, S600-02, S604-01	53	
	30	S600-03, S600-04, S600-05, S608-01	53	
	31	C601-01, C601-03, C602-01, C602-03, C603-01, C603-03, C604-01, C604-03	53	
	32	C601-02, C602-02, C603-02, C604-02, C600-04, C605-01, C605-02, C605-03	53	
	33	S700-03	103	
	34	S901-02	103	
	35	S404-03, S404-04, S4005-01	53	
	36	C906-02	53	
	37	C906-01	53	
	38	C906-01, C906-02	53	
	39	C500-01, C500-02, C500-03	53	
	40	C600-01, C600-02, C600-03	53	
	41	S800-01	53	
	42	S800-02	53	
	43	C301-01, S301-05	53	
	44	C301-01, C703-02, C703-04, S301-05	53	
	45	S403-01, S403-02, S404-04, S405-01	53	
	46	C403-01, C405-01	53	

APPR	DATE	DESCRIPTION	SYN
			
			
			
APPROVED			
FOR COMMANDER NAVFAC ACTIVITY			
SATISFACTORY TO DATE			
DES	RJK	DRW	WMC CHK CHM
<<PM/DR>>			
BRANCH MANAGER			
CHIEF ENG/ARCH			
<<CR>>			
NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND DUBOULT AFRICA DUBOULT AFRICA DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES CONTROL SCHEDULES			
SCALE: AS NOTED			
PROJECT NO.:			
WORK ORDER NO.:			
NAVFAC DRAWING NO. 14047139			
SHEET 175 OF 186			
E-606			
DRAWFORM REVISION: 10 MARCH 2009			

FILE NAME: G:\14 Jobs\14-013 Djbouti - Fuel Storage Facility - NAVFAC LANTCOM AutoCAD\14-013 CONTROL SCHEDULES.dwg LAYOUT NAME: CONTROL SCHEDULES PLOTTED: Thursday, March 31, 2016 - 11:43am USER: whermann

CONTROL CIRCUIT SCHEDULE

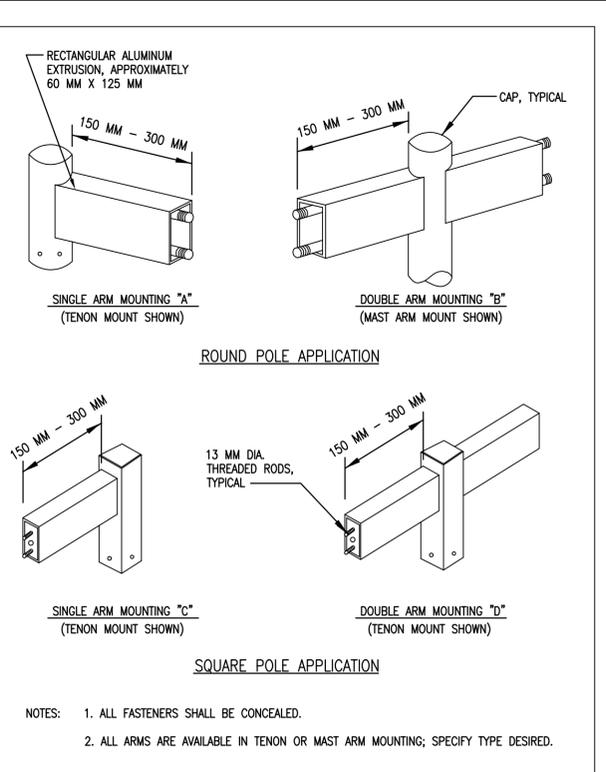
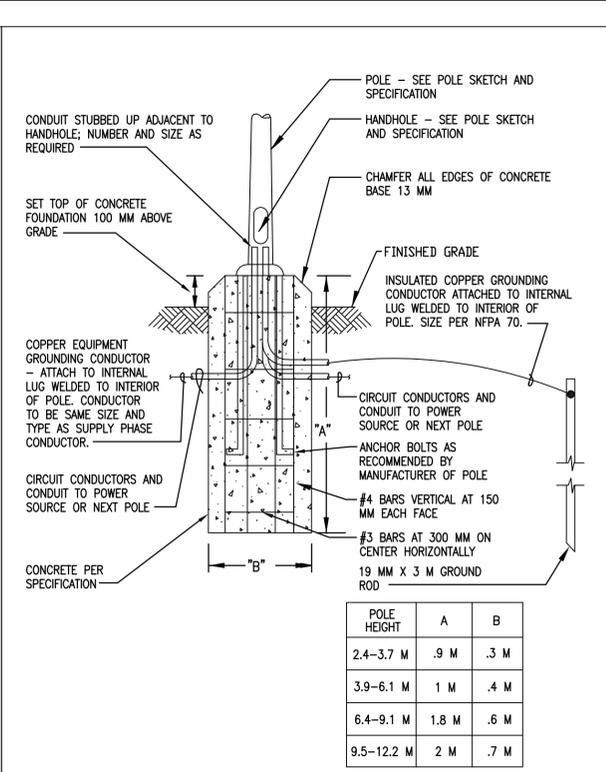
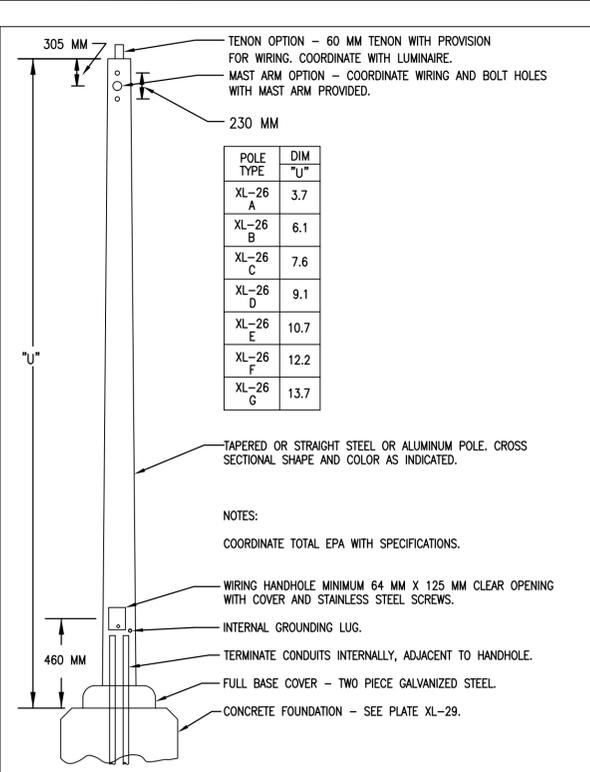
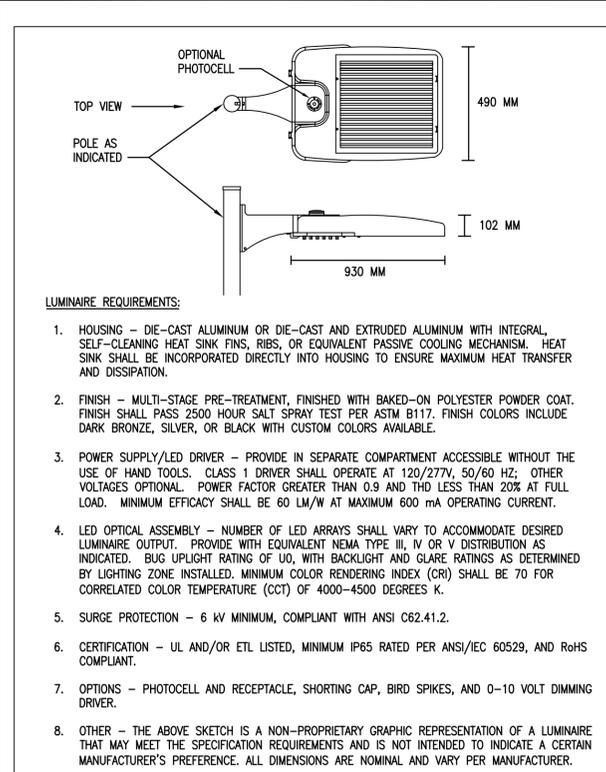
CKT NO	SOURCE	DESTINATION	CONDUCTORS	CONDUIT	REMARKS
C00-00	P1701 ESTOP CONTROL PANEL	ESTOP STATION	4C/#12	21mm	
C00-01	P1701 ESTOP CONTROL PANEL	P906 ESTOP CONTROL PANEL	4C/#12	21mm	
C00-02	P906 ESTOP CONTROL PANEL	P1701 ESTOP CONTROL PANEL	4C/#12	21mm	
C00-03	MCC1	P1701 ESTOP CONTROL PANEL	20-#12	53mm	
P906 PUMP PAD CONTROLS MODIFICATIONS					
C101-01	START/STOP SWITCH HS-101.02	P906 PLC	6C/#12	21mm	
	P906 PLC	RUN LIGHT 103.02			
C102-01	START/STOP SWITCH HS-102.02	P906 PLC	6C/#12	21mm	
	P906 PLC	RUN LIGHT 103.02			
C103-01	START STOP SWITCH HS-103.02	P906 PLC	6C/#12	21mm	
	P906 PLC	RUN LIGHT 103.02			
TRUCK OFF-LOADING STATION 301					
C301-01	PUMP P301 THERMAL SWITCH	MCC1-1C	4C/#12	21mm	
C301-02	START/STOP SWITCH HS301.01	PUMP CONTROL PANEL	4C/#12	21mm	
C301-03	HIGH-HIGH LSHH-301.01	PUMP CONTROL PANEL	6C/#12	21mm	
	HIGH LSH-301.01	PUMP CONTROL PANEL			
	LOW LSL-301.01	PUMP CONTROL PANEL			
C301-04	FLOW SWITCH FS-301.01	PUMP CONTROL PANEL	4C/#12	21mm	
C301-05	NOT USED				
C301-06	GROUND VERIFICATION PERMIT	PUMP CONTROL PANEL	4C/#12	21mm	
REFUELER TRUCK LOADING					
C401-01	START STOP SWITCH HS-401	PUMP CONTROL PANEL	6C/#12	21mm	
C401-02	GROUND/OVERFILL PROTECTION PANEL	SOLENOID SV-401	4C/#12	21mm	
C402-01	START STOP SWITCH HS-402	PUMP CONTROL PANEL	6C/#12	21mm	
C402-02	GROUND/OVERFILL PROTECTION PANEL	SOLENOID SV-402	4C/#12	21mm	
C403-01	START/STOP SWITCH HS-403	PUMP CONTROL PANEL	6C/#12	21mm	
C403-02	GROUND/OVERFILL PROTECTION PANEL	SOLENOID SV-403	4C/#12	21mm	
C404-01	START/STOP SWITCH HS-404	PUMP CONTROL PANEL	6C/#12	21mm	
C404-02	GROUND/OVERFILL PROTECTION PANEL	SOLENOID SV-404	4C/#12	21mm	
C405-01	FLOW SWITCH FS-405	PUMP CONTROL PANEL	4C/#12	21mm	
PUMPHOUSE NO 5					
C500-01	PUMPHOUSE WALL SWITCH	MCC1-2A	4C/#12	21mm	
C500-02	PUMPHOUSE THERMOSTAT	MCC1-2A	4C/#12	21mm	
C500-03	FAN THERMAL SWITCH	MCC1-2A	4C/#12	21mm	
C500-04	LEVEL SWITCH LE501	PUMP CONTROL PANEL	4C/#12	21mm	
C501-01	HAND SWITCH HS-501.02	MCC1-9A	6C/#12	21mm	
	MCC1-9A	RUN LIGHT 501.02			
C501-02	FLOW SWITCH FSL-501	PUMP CONTROL PANEL	4C/#12	21mm	
C501-03	THERMAL SWITCH TE-501	MCC1-9A	4C/#12	21mm	
C502-01	HAND SWITCH HS-502.02	MCC1-8A	6C/#12	21mm	
	MCC1-8A	RUN LIGHT 502.02			
C502-02	FLOW SWITCH FSL-502	PUMP CONTROL PANEL	4C/#12	21mm	
C502-03	THERMAL SWITCH TE-502	MCC1-8A	4C/#12	21mm	
C503-01	HAND SWITCH HS-503.02	MCC1-7A	6C/#12	21mm	
	MCC1-7A	RUN LIGHT 503.02			
C503-02	FLOW SWITCH FSL-503	PUMP CONTROL PANEL	4C/#12	21mm	
C503-03	THERMAL SWITCH TS-503	MCC1-7A	4C/#12	21mm	
C504-01	HAND SWITCH HS-504.02	MCC1-3A	6C/#12	21mm	
	MCC1-3A	RUN LIGHT 504.02			
C504-02	FLOW SWITCH FSL-504	PUMP CONTROL PANEL	4C/#12	21mm	
C504-03	THERMAL SWITCH TS-504	MCC1-3A	4C/#12	21mm	
C505-01	PUMP CONTROL PANEL	LCV-505 SOLENOID SV-505	4C/#12	21mm	
C505-02	LCV-505 LIMIT SWITCH ZSO-505	PUMP CONTROL PANEL	4C/#12	21mm	
C508-01	EMERGENCY EYEWASH/SHOWER FS-508	PUMP CONTROL PANEL	4C/#12	21mm	

CONTROL CIRCUIT SCHEDULE

CKT NO	SOURCE	DESTINATION	CONDUCTORS	CONDUIT	REMARKS
PUMPHOUSE NO 6					
C600-01	PUMPHOUSE WALL SWITCH	MCC1-2B	4C/#12	21mm	
C600-02	PUMPHOUSE THERMOSTAT	MCC1-2B	4C/#12	21mm	
C600-03	FAN THERMAL SWITCH	MCC1-2B	4C/#12	21mm	
C600-04	LEVEL SWITCH LE601	PUMP CONTROL PANEL	4C/#12	21mm	
C601-01	HAND SWITCH HS-601.02	MCC1-6A	6C/#12	21mm	
	MCC1-6A	RUN LIGHT 601.02			
C601-02	FLOW SWITCH FSL-601	PUMP CONTROL PANEL	4C/#12	21mm	
C601-03	THERMAL SWITCH TS-601	MCC1-6A	4C/#12	21mm	
C602-01	HAND SWITCH 602.02	MCC1-5A	6C/#12	21mm	
	MCC1-5A	RUN LIGHT 602.02			
C602-02	FLOW SWITCH FSL-602	PUMP CONTROL PANEL	4C/#12	21mm	
C602-03	THERMAL SWITCH TS-602	MCC1-5A	4C/#12	21mm	
C603-01	HAND SWITCH 603.02	MCC1-4A	6C/#12	21mm	
	MCC1-4A	RUN LIGHT 603.02			
C603-02	FLOW SWITCH FSL-603	PUMP CONTROL PANEL	4C/#12	21mm	
C603-03	THERMAL SWITCH TS-603	MCC1-4A	4C/#12	21mm	
C604-01	HAND SWITCH 604.02	MCC1-3B	6C/#12	21mm	
	MCC1-3B	RUN LIGHT 604.02			
C604-02	FLOW SWITCH FSL-604	PUMP CONTROL PANEL	4C/#12	21mm	
C604-03	THERMAL SWITCH TS-604	MCC1-3B	4C/#12	21mm	
C605-01	PUMP CONTROL PANEL	LCV-605 SOLENOID SV-605	4C/#12	21mm	
C605-02	LCV-605 LIMIT SWITCH ZSO-605	PUMP CONTROL PANEL	4C/#12	21mm	
C608-01	EMERGENCY EYEWASH/SHOWER FS-608	PUMP CONTROL PANEL	4C/#12	21mm	
FILTER BUILDING					
C700-01	GENERATOR G1	GENERATOR ANNUNCIATOR PANEL			
C700-02	EF1 THERMAL SWITCH	MCC1-1A	4C/#12	21mm	
C700-03	FILTER BUILDING THERMOSTAT	MCC1-1A	4C/#12	21mm	
C700-04	FILTER BUILDING WALL SWITCH	MCC1-1A	4C/#12	21mm	
C701-01	EF50 CONTROL PANEL	SOLENOID SV-701	4C/#12	21mm	
C701-02	DPT 701.01	PUMP CONTROL PANEL	2x#18 STP	21mm	
C701-03	DPT 701.02	PUMP CONTROL PANEL	2x#18 STP	21mm	
C701-04	PIT 701.01	PUMP CONTROL PANEL	2x#18 STP	21mm	
C701-05	PIT 701.02	PUMP CONTROL PANEL	2x#18 STP	21mm	
C702-01	EF50 CONTROL PANEL	SOLENOID SV-702	4C/#12	21mm	
C702-02	DPT 702.01	PUMP CONTROL PANEL	2x#18 STP	21mm	
C702-03	DPT 702.02	PUMP CONTROL PANEL	2x#18 STP	21mm	
C702-04	PIT 702.02	PUMP CONTROL PANEL	2x#18 STP	21mm	
C703-01	EF50 CONTROL PANEL	SOLENOID SV-703	4C/#12	21mm	
C703-02	LEAK DETECTION LE701	PUMP CONTROL PANEL	4C/#12	21mm	
C703-03	LEAK DETECTION LE702	PUMP CONTROL PANEL	4C/#12	21mm	
C703-04	LEAK DETECTION LE703	PUMP CONTROL PANEL	4C/#12	21mm	
C706-01	EMERGENCY EYEWASH/SHOWER	PUMP CONTROL PANEL	4C/#12	21mm	
PRODUCT RECOVERY TANK					
C707-01	HAND SWITCH HS-707	MCC1	6C/#12	21mm	
	MCC1	RUN LIGHT 707			
C707-02	OV-707 POSITION SWITCH Z-707	PUMP CONTROL PANEL	4C/#12	21mm	
C707-03	FLOW SWITCH FSL-707	PUMP CONTROL PANEL	4C/#12	21mm	
LEAK DETECTION					
C701-09	CROSSING 1 LE701	PUMP CONTROL PANEL			
C702-09	CROSSING 2 LE702	PUMP CONTROL PANEL			
C703-09	CROSSING 3 LE703	PUMP CONTROL PANEL			
C906-01	PUMP CONTROL PANEL	P906 PLC	12 STRAND FIBER	21mm	
C906-02	GENERATOR TRANSFER SWITCH	GENERATOR	4C/#12	21mm	

APPROVED	DATE
DESCRIPTION	
SYN	
	
	
	
APPROVED FOR COMMANDER NAVFAC ACTIVITY	
SATISFACTORY TO DATE DES: RJK DRAW: WMC CHK: CHM	
BRANCH MANAGER CHIEF ENG/ARCH	
DEPARTMENT OF THE NAVY ATLANTIC DIVISION CAMP LEMONIER NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA DUBOULT, AFRICA DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES CONTROL SCHEDULES	
SCALE: AS NOTED PROJECT NO.: WORK ORDER NO.: NAVFAC DRAWING NO.: 14047140 SHEET 176 OF 186 E-607 <small>DRAWING REVISION: 10 MARCH 2009</small>	

FILE NAME: G:\14 Jobs\14-013 Dhhout - Fuel Storage Facility - NAVFAC LANTCOM AutoCAD\14-013 PLATE DETAILS PLATE DETAILS.dwg LAYOUT NAME: PLATE DETAILS PLOTTED: Thursday, March 31, 2016 - 11:45am USER: wherrmann



LED AREA LUMINAIRE

ANCHOR BASE STEEL/ALUMINUM POLE

ANCHOR BASE POLE FOUNDATION

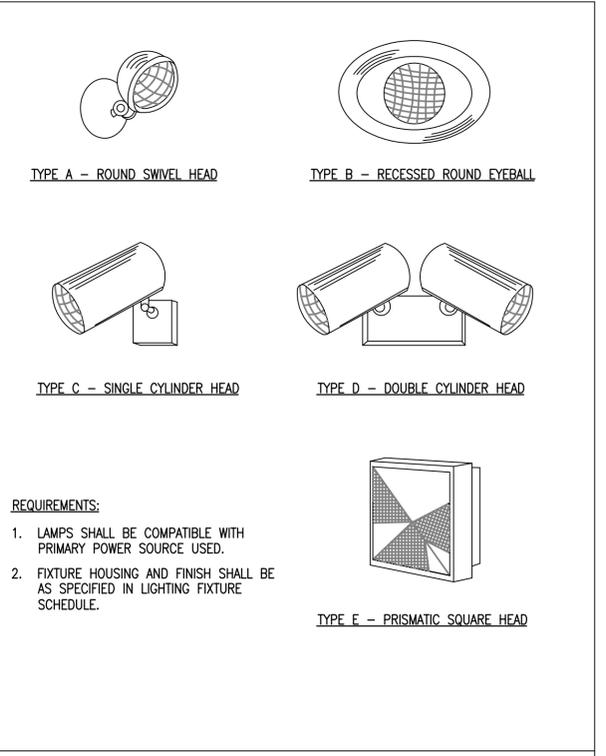
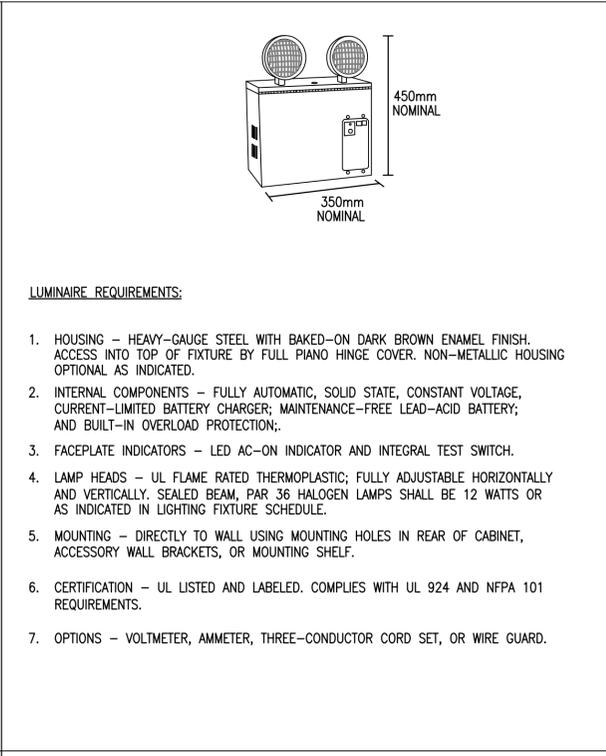
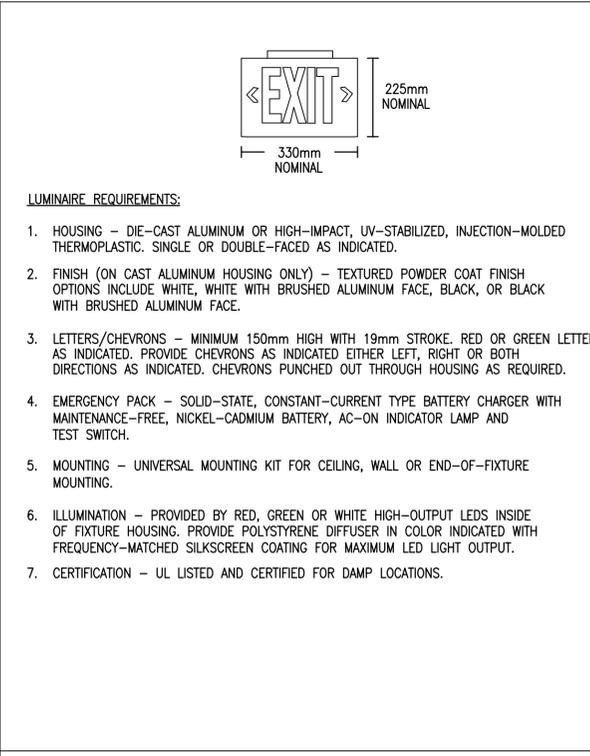
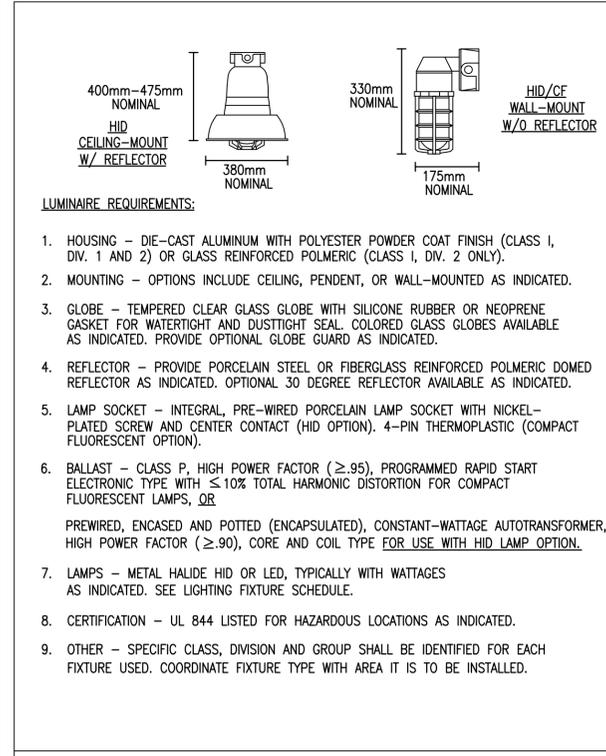
LUMINAIRE MOUNTING ARM DETAILS

REVISED: MARCH 2013 LUMINAIRE PLATE: XL-03

REVISED: MARCH 2013 LUMINAIRE PLATE: XL-27

REVISED: MARCH 2013 LUMINAIRE PLATE: XL-29

REVISED: MARCH 2013 LUMINAIRE PLATE: XL-31



HAZARDOUS LOCATION FIXTURE

LED EXIT SIGN

INDUSTRIAL EMERGENCY LIGHTING UNIT

REMOTE-MOUNTED FIXTURES FOR EMERGENCY LIGHTING UNIT

REVISED: AUGUST 2004 LIGHTING PLATE: NL-69

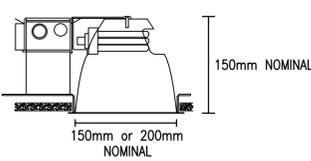
REVISED: AUGUST 2004 LIGHTING PLATE: NL-63

REVISED: AUGUST 2004 LIGHTING PLATE: NL-65

REVISED: AUGUST 2004 LIGHTING PLATE: NL-66



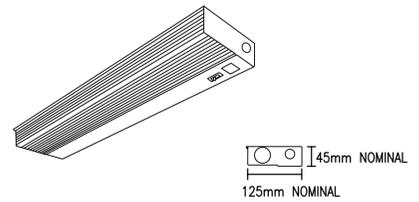
APPR	DATE	SYN	DESCRIPTION
A/E INFO			
APPROVED			
FOR COMMANDER NAVFAC ACTIVITY			
SATISFACTORY TO DATE			
DES	DRW	CHK	CHM
<<PM/DR>>	WMC	CHM	
BRANCH MANAGER			
CHIEF ENG/ARCH			
<<CR>>			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION CAMP LEMONNIER NORFOLK, VIRGINIA DUBOULT AFRICA DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES PLATE DETAILS			
SCALE: AS NOTED			
PROJECT NO.:			
WORK ORDER NO.:			
NAVFAC DRAWING NO. 14047142			
SHEET 178 OF 186			
E-702			
DRAWING REVISION: 10 MARCH 2009			



LUMINAIRE REQUIREMENTS:

- HOUSING - ONE-PIECE, DIE-STAMPED, COLD ROLLED STEEL OR ACRYLIC-ENAMELED ALUMINUM. PROVIDE WITH PRE-WIRED JUNCTION BOX HAVING SNAP-ON ACCESS COVER. ACCESS TO JUNCTION BOX FROM BELOW CEILING SHALL BE PROVIDED THROUGH FIXTURE AFTER REMOVAL OF REFLECTOR.
- REFLECTOR AND TRIM - ONE-PIECE, CLEAR, SPUN ALUMINUM, IRIDESCENCE-SUPPRESSED, WITH PAINTED WHITE SELF TRIM. OTHER FINISHES AND TYPES AVAILABLE. SEE LIGHTING FIXTURE SCHEDULE.
- BALLAST - CLASS P, MULTI-VOLT (120V-277V INPUT), HIGH POWER FACTOR ($\geq .95$), PROGRAMMED RAPID START ELECTRONIC TYPE WITH $\leq 10\%$ TOTAL HARMONIC DISTORTION. BALLAST SHALL BE CAPABLE OF UNIVERSALLY OPERATING 26W, 32W, OR 42 WATT LAMPS.
- LAMPS - MULTI-TUBE, COMPACT FLUORESCENT WITH 4-PIN BASE. PROVIDE WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
- CERTIFICATION - UL LISTED AND LABELED.
- FIXTURE TYPES -
TYPE A - 150mm NOMINAL APERTURE
TYPE B - 200mm NOMINAL APERTURE

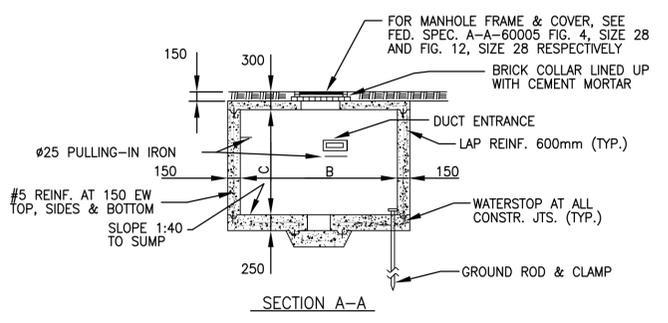
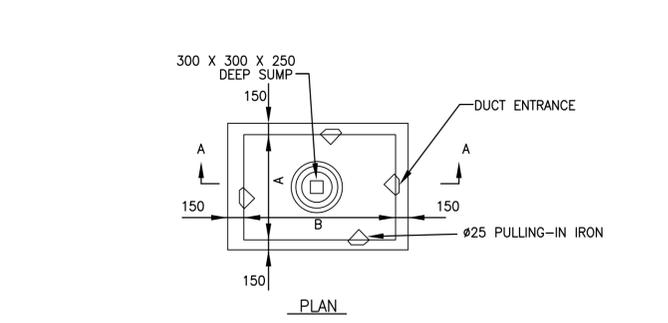
RECESSED COMPACT FLUORESCENT DOWNLIGHT
REVISED: AUGUST 2004 LIGHTING PLATE: NL-31



LUMINAIRE REQUIREMENTS:

- HOUSING - DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY. ENDCAPS SECURED WITH TABS, SCREWS OR RIVETS.
- FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH.
- LENS - 100% ACRYLIC, CLEAR PRISMATIC OR WHITE TRANSLUCENT DIFFUSER WITH LINEAR RIBS FOR EVEN ILLUMINATION.
- LAMPS - LINEAR FLUORESCENT T8, TYPICALLY WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
- BALLAST - CLASS P, THERMALLY-PROTECTED, HIGH POWER FACTOR ($\geq .95$), ELECTRONIC TYPE WITH SOUND RATING A. SEE SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR BALLAST OPTIONS AND SPECIFICS.
- CERTIFICATION - UL LISTED AND LABELED.
- FIXTURE TYPES -
TYPE A - 610mm LENGTH WITH 1-T8 FLUORESCENT LAMP
TYPE B - 915mm LENGTH WITH 1-T8 FLUORESCENT LAMP
TYPE C - 1220mm LENGTH WITH 1-T8 FLUORESCENT LAMP

FLUORESCENT UNDER-CABINET TASK LIGHT
REVISED: AUGUST 2004 LIGHTING PLATE: NL-25

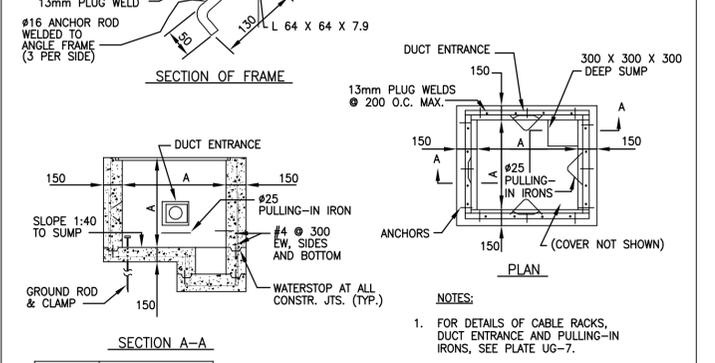
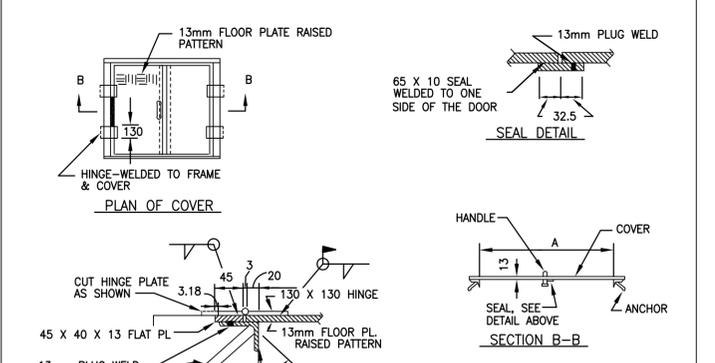


MANHOLE DIMENSIONS			
TYPE	A	B	C (AT HIGH PT.)
1	1800	1800	2000
2	1800	2500	2000

NOTES:

- FOR DETAILS OF CABLE RACKS, DUCT ENTRANCE AND PULLING-IN IRONS, SEE PLATE UG-7.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 21 MPa.

STANDARD ELECTRICAL MANHOLE (NONTRAFFIC) TYPES 1 & 2
SKETCH DATE: JUNE 2002 STYLE: UG-1

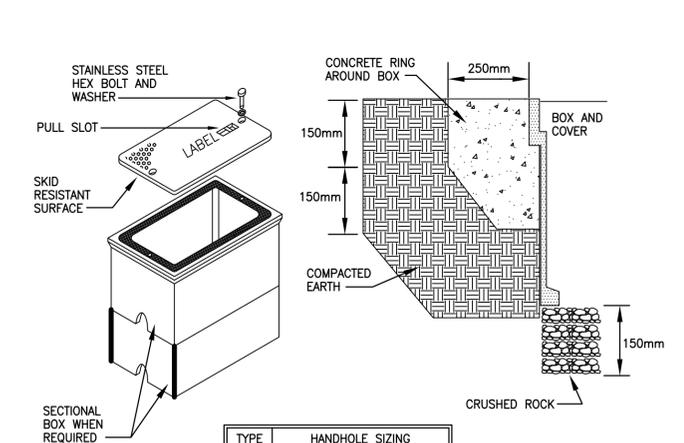


HANDHOLE DIMENSIONS	
TYPE	A
1	1000
2	1250

NOTES:

- FOR DETAILS OF CABLE RACKS, DUCT ENTRANCE AND PULLING-IN IRONS, SEE PLATE UG-7.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 21 MPa.

STANDARD ELECTRICAL HANDHOLE (NONTRAFFIC) TYPES 1 & 2
SKETCH DATE: JUNE 2002 STYLE: UG-4

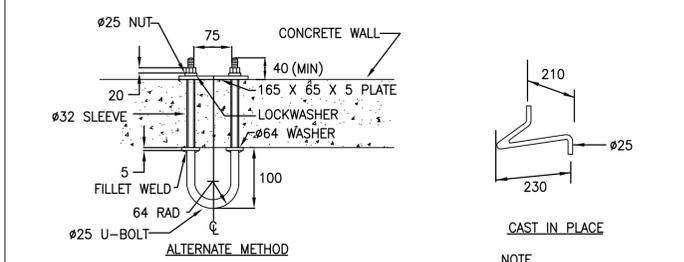


TYPE	HANDHOLE SIZING
5	300mm X 300mm X 600mm DEEP
6	300mm X 500mm X 600mm DEEP
7	300mm X 600mm X 600mm DEEP
8	600mm X 1000mm X 600mm DEEP
9	800mm X 1250mm X 600mm DEEP

HANDHOLE REQUIREMENTS:

- HOUSING SHALL BE A POLYMER CONCRETE REINFORCED WITH A HEAVY WEAVE FIBERGLASS REINFORCING WITH COMPRESSIVE STRENGTH OF NO LESS THAN 70 MPa.
- COVER AND BOX SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 6800 kg OVER A 250 x 250 AREA.
- PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
- PROVIDE WITH (2) 64mm MOUSEHOLES.
- PROVIDE LABEL "ELECTRICAL" FOR POWER HANDHOLES OR "TELEPHONE" FOR TELEPHONE HANDHOLES, OR AS INDICATED.

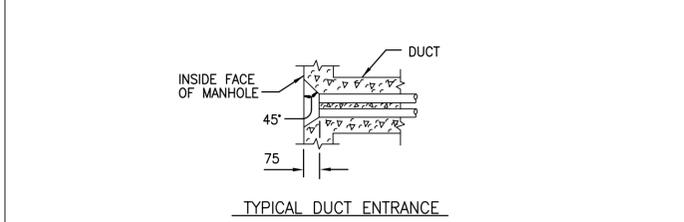
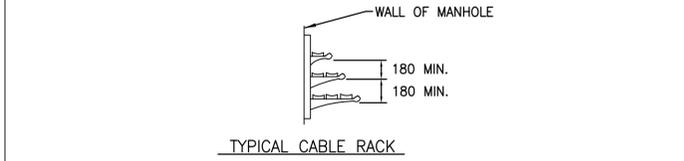
STANDARD ELECTRICAL HANDHOLE (NONTRAFFIC) (COMPOSITE/FIBERGLASS) TYPES 5, 6, 7, 8 & 9
SKETCH DATE: JUNE 2002 STYLE: UG-6



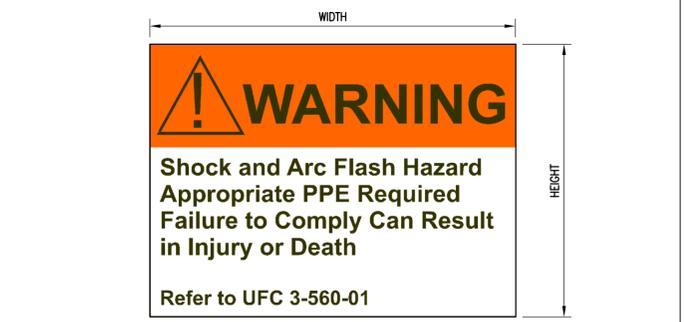
DETAIL OF PULLING-IN IRON

CAST IN PLACE

NOTE: ALL METAL PARTS SHALL BE HOT DIP GALVANIZED



DETAILS (PULLING-IN IRONS, CABLE RACK AND DUCT ENTRANCE)
SKETCH DATE: JUNE 2002 STYLE: UG-7



NOTES:

- PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
- THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
- THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
- THE SIZE OF THE LABEL SHALL BE MINIMUM:

EQUIPMENT TYPE	HEIGHT	WIDTH
INDOOR	50	75
OUTDOOR	75	110

5. A DOWNLOADABLE WINDOWS METAFILE IS AVAILABLE ON THE WHOLE BUILDING DESIGN GUIDE WEBSITE ([WWW.WBDG.ORG](http://www.wbdg.org)) FOR USE IN A LABEL MAKING MACHINE.

A. THE FILE IS LOCATED ON THE "NAVFAC CADD DETAILS" PAGE. TO NAVIGATE TO THIS LOCATION, FOLLOW: HOME > DOCUMENTS & REFERENCES > CCB > CADD LIBRARY > NAVFAC CADD RESOURCES > NAVFAC CADD DETAILS.

B. ALTERNATIVELY, TYPE IN THE FOLLOWING ADDRESS IN INTERNET EXPLORER: [HTTP://WWW.WBDG.ORG/CCB/BROWSE_CAT.PHP?Q=78&C=232](http://www.wbdg.org/ccb/BROWSE_CAT.PHP?Q=78&C=232)

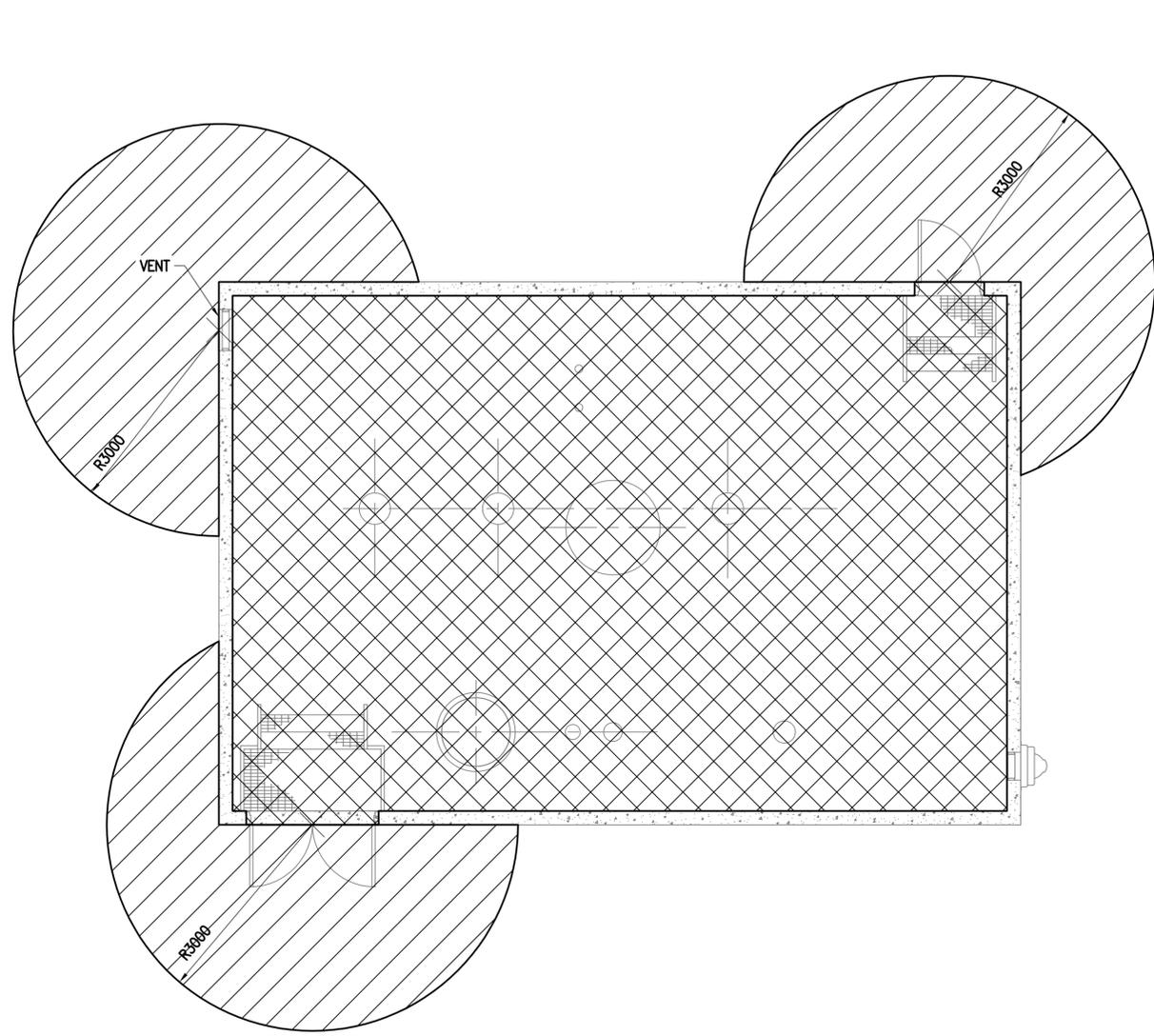
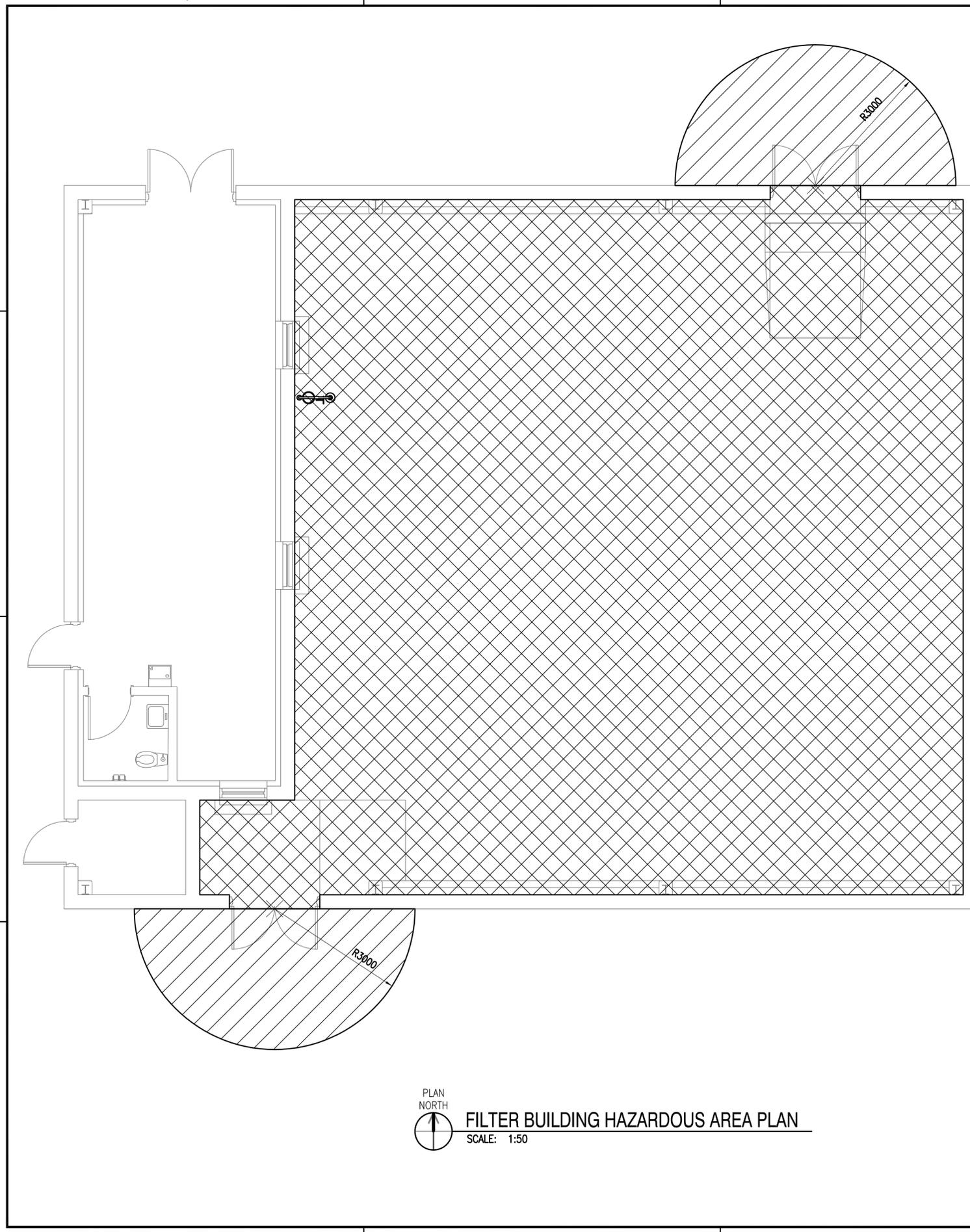
ARC FLASH WARNING LABEL
SKETCH DATE: MARCH 2014 STYLE: AF-1

FILE NAME: G:\14_jobs\14-013_Dibouti - Fuel Storage Facility - NAVFAC LANTLAD AutoCAD\VE-703 PLATE DETAILS.dwg LAYOUT NAME: PLATE DETAILS PLOTTED: Thursday, March 31, 2016 - 11:44am USER: wherrmann

APPROVED	DATE
SYN	DESCRIPTION
APPROVED	A/E INFO
FOR COMMANDER NAVFAC	ACTIVITY
SATISFACTORY TO	DATE
DES: RJK	DRW: WMG
CHK: CHM	
BRANCH MANAGER	
CHIEF ENG/ARCH	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION CAMP LEMONIER NORFOLK, VIRGINIA DUBOITI, AFRICA	
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES PLATE DETAILS	
SCALE:	AS NOTED
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO.:	14047143
SHEET:	179 OF 186
E-703	
DRAWFORM REVISION: 10 MARCH 2009	

FILE NAME: G:\14 Jobs\14-013 Djbouti - Fuel Storage Facility - NAVFAC LANTCOM AutoCAD\14-E-705 HAZARDOUS AREA PLANS.dwg LAYOUT NAME: HAZARDOUS AREA PLANS PLOTTED: Thursday, March 31, 2016 - 11:44am USER: whiermann

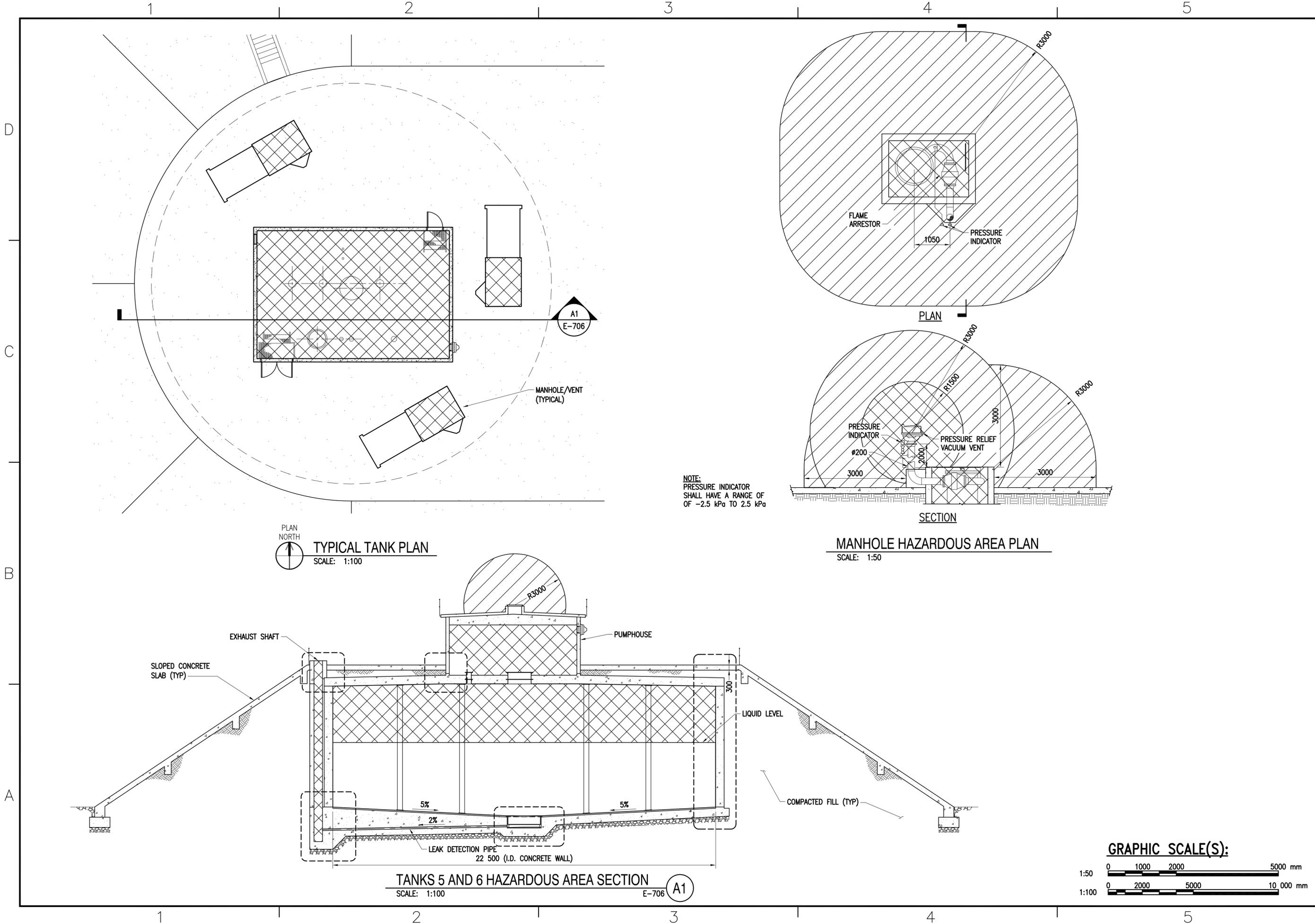
A B C D



APPR	DATE	
SYN	DESCRIPTION	
 NAVFAC COMMONWEALTH OF VIRGINIA RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER		
 Austin Brockenbrough ENGINEERING - CONSULTING		
APPROVED	A/E INFO	
FOR COMMANDER NAVFAC ACTIVITY		
SATISFACTORY TO	DATE	
DES RJK	DRW WMC	CHK CHM
<<PM/DR>>		
BRANCH MANAGER		
CHIEF ENG/ARCH		
<<<<>>		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA DIBOUTI AFRICA CAMP LEMONNIER		
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES HAZARDOUS AREA PLANS		
SCALE: AS NOTED		
PROJECT NO.:		
WORK ORDER NO.:		
NAVFAC DRAWING NO. 14047145		
SHEET 181 OF 186		
E-705		
DRAWFORM REVISION: 10 MARCH 2009		

1 2 3 4 5

FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT\CAD AutoCAD\E-706 TANKS 5 AND 6 HAZARDOUS AREAS.dwg LAYOUT NAME: TANKS 5 AND 6 HAZARDOUS AREAS PLOTTED: Thursday, March 31, 2016 - 11:45am USER: wherrmann



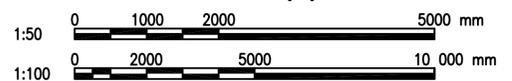
PLAN NORTH
TYPICAL TANK PLAN
 SCALE: 1:100

MANHOLE HAZARDOUS AREA PLAN
 SCALE: 1:50

TANKS 5 AND 6 HAZARDOUS AREA SECTION
 SCALE: 1:100

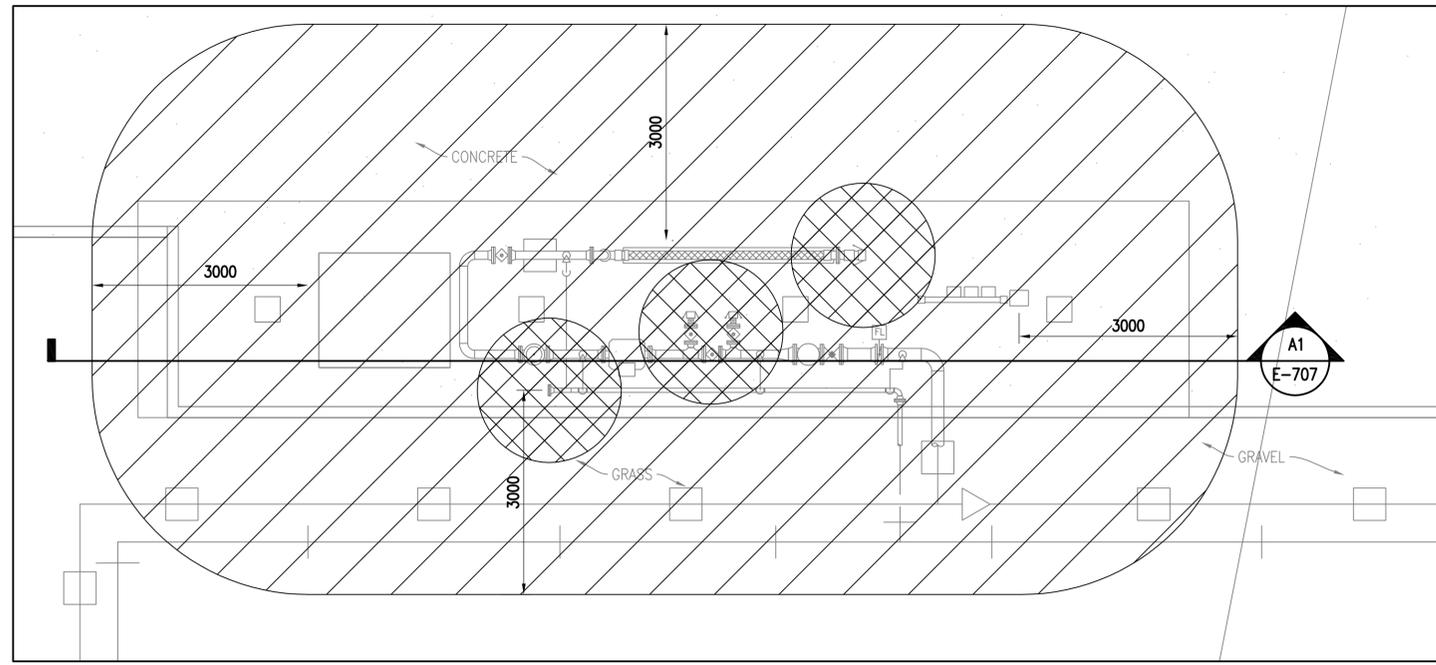
NOTE:
 PRESSURE INDICATOR
 SHALL HAVE A RANGE OF
 OF -2.5 kPa TO 2.5 kPa

GRAPHIC SCALE(S):

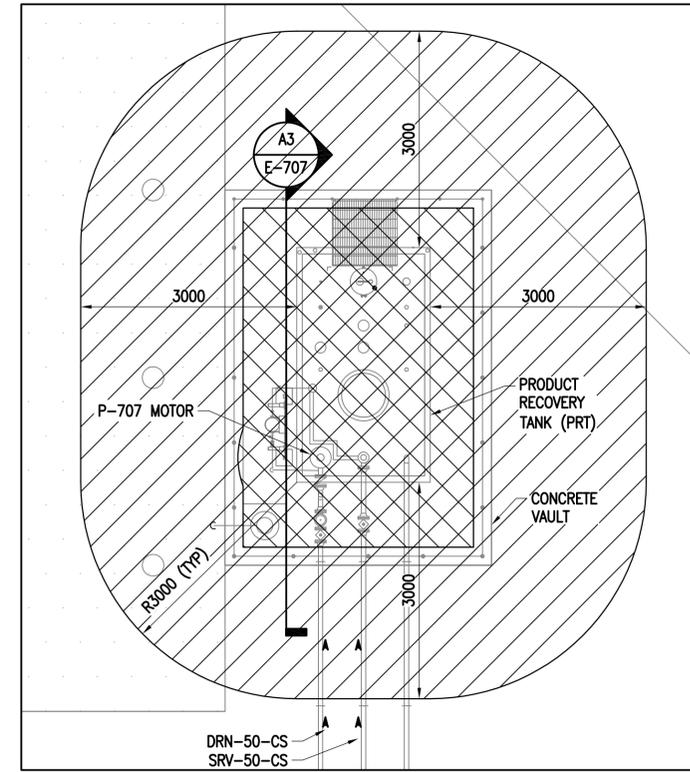


APPR	DATE
SYN	DESCRIPTION
 NAVFAC COMMONWEALTH OF VIRGINIA RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER	
Austin Brockenbrough ENGINEERING + CONSULTING	
APPROVED	A/E INFO
FOR COMMANDER NAVFAC	ACTIVITY
SATISFACTORY TO	DATE
DES: RJK	DRW: WMG
CHK: CHM	
<<PM/DM>>	
BRANCH MANAGER	
CHIEF ENG/ARCH	
<<<CR>>	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION CAMP LEMONNIER NAVFAC LANT/COMNAVFAC/AFRICA INDIANOLA, VIRGINIA DIBOUTI, AFRICA	
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES TANKS 5 AND 6 HAZARDOUS AREAS	
SCALE:	AS NOTED
PROJECT NO.:	
WORK ORDER NO.:	
NAVFAC DRAWING NO.:	14047146
SHEET	182 OF 186
E-706	
DRAWING REVISION: 10 MARCH 2009	

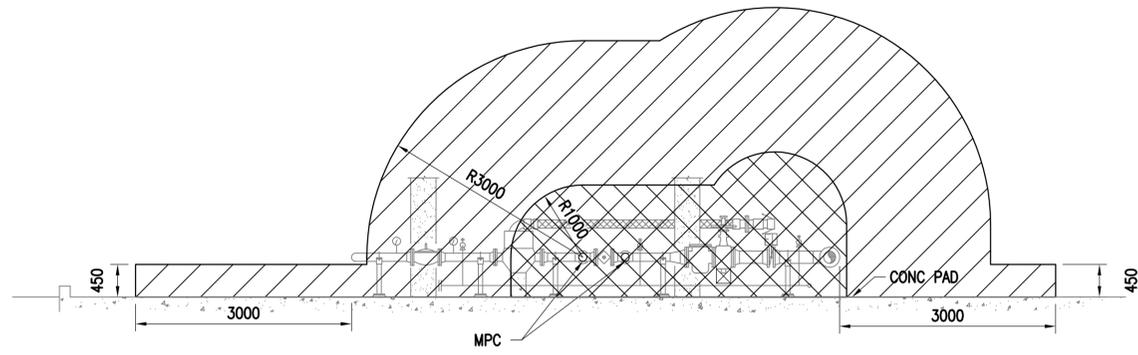
FILE NAME: G:\14 Jobs\14-013 Djibouti - Fuel Storage Facility - NAVFAC LANT/CDR Audeo\A1-E-707 TRUCK LOADING AND PRT HAZARDOUS LOCATION.dwg LAYOUT NAME: TRUCK LOADING AND PRT HAZARDOUS LOCATION PLOTTED: Thursday, March 31, 2016 - 11:45am USER: whermmen



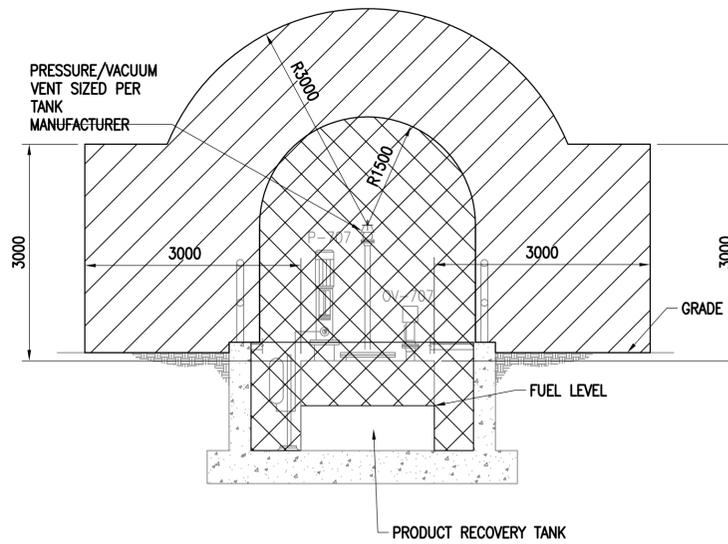
PLAN NORTH
REFUELER TRUCK LOADING STATION NO 3
SCALE: 1:50



PLAN NORTH
PRODUCT RECOVERY TANK
SCALE: 1:50

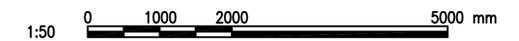


SECTION
SCALE: 1:50
E-707 A1



SECTION
SCALE: 1:50
E-707 A3

GRAPHIC SCALE(S):



SYN	DESCRIPTION	DATE	APPR
 NAVFAC COMMONWEALTH OF VIRGINIA RALPH JEFFERSON KEITH Lic. No. 018747 PROFESSIONAL ENGINEER			
Austin Brockenbrough ENGINEERING - CONSULTING			
A/E INFO			
APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO DATE			
DES	RJK	DRW	WMC CHK CHM
<<PM/DR>>			
BRANCH MANAGER			
CHIEF ENG/ARCH			
<<CR>>			
DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND	
ATLANTIC DIVISION		NAVFAC LANT/CDR Audeo	
CAMP LEMONNIER		DIBOUTI AFRICA	
DESC 1701/P-1701 CONSTRUCT FUEL STORAGE FACILITIES TRUCK LOADING AND PRT HAZARDOUS LOCATION			
SCALE: AS NOTED			
PROJECT NO.:			
WORK ORDER NO.			
NAVFAC DRAWING NO. 14047147			
SHEET 183 OF 186			
E-707			
DRAWFORM REVISION: 10 MARCH 2009			