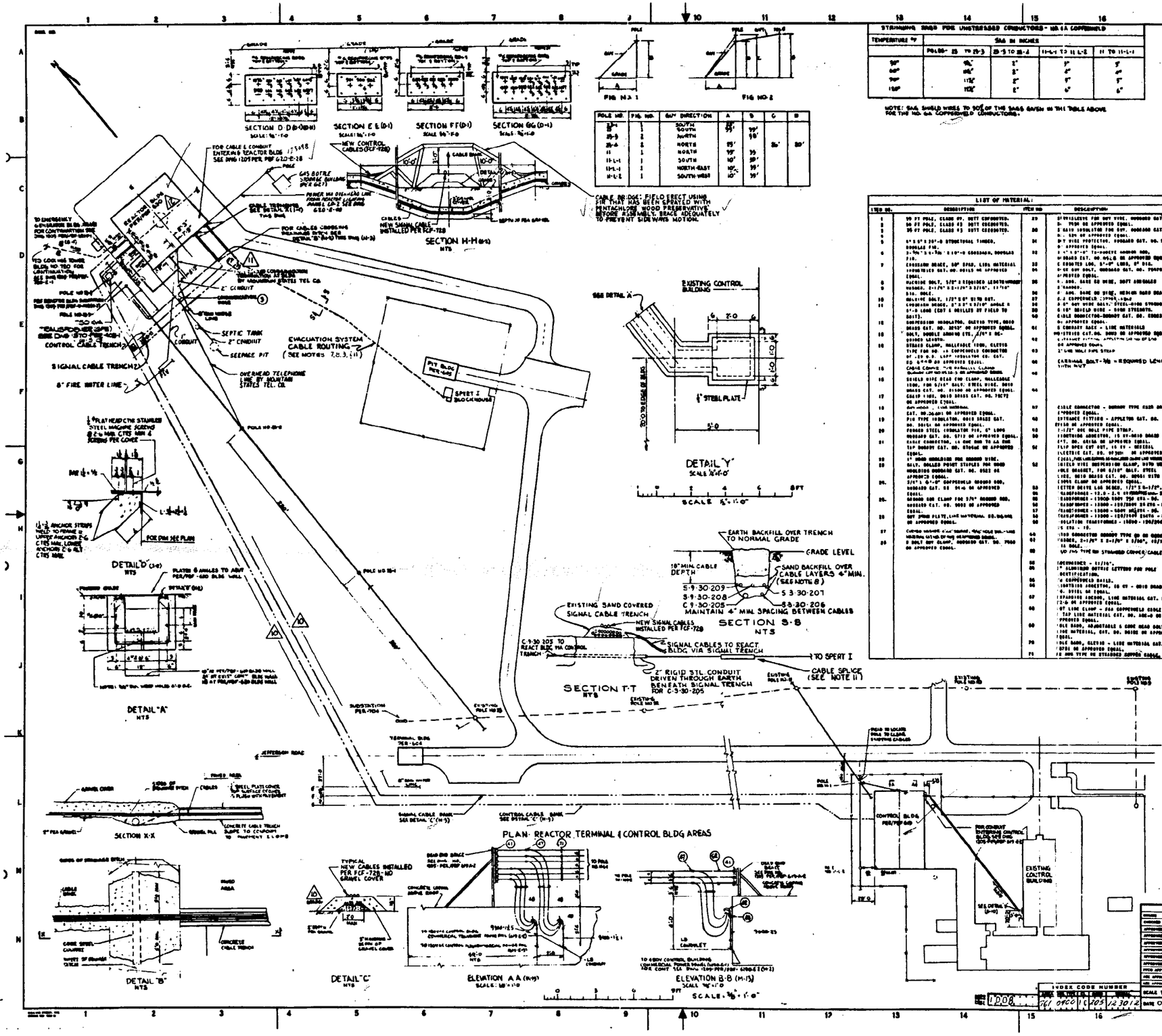
THE CONTENTS OF THIS SECTION ARE
THE HIGHEST QUALITY AVAILABLE

INITIAL gj DATE 3/14/02

PIC00009-2. Looking south-southwest. PER-619 on the right and PER-601 on the left.

PIC00009-3. Looking southwest along power corridor.

PIC00010-2. Looking south-southwest. PER-619 on the right and PER-601 on the left.




| STRANDING SAG FOR UNSTRESSED CONDUCTORS - NO 6A COPPERWELD | | | | |
|---|---|---|---|---|
| TEMPERATURE °F | SAG IN INCHES | | | |
| | POLES- 15 TO 29-3 | 29-5 TO 38-4 | 11-L-1 TO 11 L-2 | 11 TO 11-L-1 |
| 50° | 10½" | 5" | 5" | 5" |
| 60° | 10½" | 5" | 5" | 5" |
| 70° | 11½" | 5" | 5" | 5" |
| 150° | 11½" | 5" | 5" | 5" |

NOTE: SAG SHIELD WIRES TO 90% OF THE SAG GIVEN IN THE TABLE ABOVE FOR THE NO. 6A COPPERWELD CONDUCTORS.

| POLE NO. | FIG. NO. | GUY DIRECTION | A | B | C | D |
|---|---|---|---|---|---|---|
| 3-1 | 1 | SOUTH | 22' | | | |
| 3 | 1 | SOUTH | 29' | 19' | | |
| 29-3 | 1 | NORTH | | 18' | | |
| 29-6 | 1 | NORTH | 19' | | 26' | 20' |
| 11 | 1 | NORTH | 19' | 19 | | |
| 11-L-1 | 1 | SOUTH | 10' | 29' | | |
| 11-L-1 | 1 | NORTH-EAST | 10' | 19' | | |
| 11-L-2 | 1 | SOUTH-WEST | 10' | 19' | | |

FIG NO. 1

FIG NO. 2

CABLE BRIDGE: FIELD ERECT USING FIR THAT HAS BEEN SPRAYED WITH PENTACHLOROL WOOD PRESERVATIVE BEFORE ASSEMBLY. BRACE ADEQUATELY TO PREVENT SIDEWAYS MOTION.

## LIST OF MATERIAL:

| ITEM NO. | DESCRIPTION |
|---|---|
| 1 | 90 FT POLE, CLASS 09, DOTT CEDOSOTED. |
| 2 | 50 FT POLE, CLASS #3 DOTT CEDOSOTED. |
| 3 | 35 FT POLE, CLASS #3 DOTT CEDOSOTED. |
| 4 | |
| 5 | 6" X 6" X 20'-0 STRUCTURAL TIMBER, DOUGLAS FIR. |
| 6 | 3-3/4" X 3-3/4" X 10'-0 GOOSEANCK, DOUGLAS FIR. |
| 7 | CROSSARM BRACE, 50" SPAN, LIKE MATERIAL (PROTECTED CAT. NO. 00113 OR APPROVED EQUAL. |
| 8 | MACHINE BOLT, 5/8" STAINLESS LEWSTEWMOST WASHER, 2-1/2" X 2-1/2" X 3/16", 11/16" DIA. HOLE. |
| 10 | MACHINE BOLT, 1/2" X 8" BLTD BOT. |
| 11 | CROSSARM BRACE, 2" X 2" X 3/16" ANGLE X 2'-0 LONG (CUT & DRILLED AT FIELD TO SUIT). |
| 12 | SUSPENSION INSULATOR, OLETIS TYPE, OBID BRASS CAT. NO. 32437 OR APPROVED EQUAL. |
| 13 | BOLT, DOUBLE ARMORED STL. 1/4" X DESIRED LENGTH. |
| 14 | STRAIN CLAMP, MALLEABLE IRON, OLETIS TYPE FOR NO. 6A COPPERWELD CONDUCTOR OF .20 O.D. LAPP INSULATOR CO. CAT. NO. 4-4-0 OR APPROVED EQUAL. |
| 16 | CABLE CONNECTOR, "U" BOLT, CLAMP DOUBLE LAP NO 4-2 OR APPROVED EQUAL. |
| 16 | SHIELD WIRE DEAD END CLAMP, MALLEABLE IRON, FOR 5/16" BOLT, STEEL WIRE, OBID BRASS CAT. NO. 01500 OR APPROVED EQUAL. |
| 17 | GRAIP LUGS, OBID BRASS CAT. NO. 70172 OR APPROVED EQUAL. |
| 18 | GUY WIRE - LINE MATERIAL CAT. NO. 30-2401 OR APPROVED EQUAL. |
| 19 | PIN TYPE INSULATOR, OBID BRASS CAT. NO. 30151 OR APPROVED EQUAL. |
| 20 | FORGED STEEL INSULATOR PIN, 8" LONG OBERDORF CAT. NO. 5717 OR APPROVED EQUAL. |
| 21 | CABLE CONNECTOR, LA CROSSE CAT. NO. LA CROSSE TAP BURNDY CAT. NO. 47666 OR APPROVED EQUAL. |
| 22 | 1" WOOD WEDGES FOR DOUBLE WIRE. |
| 23 | BOLT, DOUBLE POINT STAPLE FOR DOUBLE WEDGES OBERDORF CAT. NO. 0521 OR APPROVED EQUAL. |
| 24. | 3/4" X 6'-0" COPPERWELD GROUND ROD, BURNDY CAT. NO. 94-6 OR APPROVED EQUAL. |
| 25. | GROUND ROD CLAMP FOR 3/4" GROUND ROD, BURNDY CAT. NO. 0002 OR APPROVED EQUAL. |
| 26. | GUY GROUND PLATE, LINE MATERIAL CAT. NO. 00-0-0 OR APPROVED EQUAL. |
| 27 | CURVED WASHER 4" X 4" SQUARE, 3/4" HOLE DIA. - LINE MATERIAL CATALOG OF NO. OR APPROVED EQUAL. |
| 28 | 2 BOLT GUY CLAMP, BURNDY CAT. NO. 7000 OR APPROVED EQUAL. |
| 29 | STAINLESS STEEL FOR GUY WIRE, BURNDY CAT. NO. 7000 OR APPROVED EQUAL. |
| 30 | 2" X 4" X 8'-0" DOUGLAS FIR. |
| 31 | 1" X 6" X 8'-0" DOUGLAS FIR. |
| 32 | 1" X 4" X 8'-0" DOUGLAS FIR. |
| 33 | 1" X 4" X 4'-0" DOUGLAS FIR. |
| 34 | 1" X 2" X 8'-0" DOUGLAS FIR. |
| 35 | 1" X 2" X 4'-0" DOUGLAS FIR. |
| 36 | 1" X 2" X 2'-0" DOUGLAS FIR. |
| 37 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 38 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 39 | STAINLESS FOR GUY WIRE, BURNDY CAT. NO. 7000 OR APPROVED EQUAL. |
| 40 | CABLE CONNECTOR - BURNDY TYPE CAST OR APPROVED EQUAL. |
| 41 | ENTRANCE FITTING - APPLETON CAT. NO. EYLSS OR APPROVED EQUAL. |
| 42 | 7-1/2" ONE HOLE PIPE STRAP. |
| 43 | LIGHTNING ARRESTOR, 15 KV-OBID BRASS CAT. NO. 65138 OR APPROVED EQUAL. |
| 44 | 15 KV OPEN CUT OUT, 15 KV - OBID BRASS ELECTRIC CAT. NO. 97301 OR APPROVED EQUAL. |
| 45 | SHIELD WIRE SUSPENSION CLAMP, BURNDY WOOD POLE BRACKET, FOR 5/16" BOLT. STEEL - OBID BRASS CAT. NO. 00501 OR APPROVED EQUAL. |
| 46 | LETTER DRIVE LOG BRACE, 1/2" X 8-1/2", 12-2 - 2.5 OR APPROVED EQUAL. |
| 47 | TRANSFORMER - 15 KV - 120/240 VOLT - 10 KVA. |
| 48 | SOLATION TRANSFORMER - 15 KV - 120/240 VOLT - 10 KVA. |
| 49 | 1" X 6" X 10'-0" DOUGLAS FIR. |
| 50 | 1" X 6" X 8'-0" DOUGLAS FIR. |
| 51 | 1" X 6" X 4'-0" DOUGLAS FIR. |
| 52 | 1" X 4" X 8'-0" DOUGLAS FIR. |
| 53 | 1" X 4" X 4'-0" DOUGLAS FIR. |
| 54 | 1" X 2" X 8'-0" DOUGLAS FIR. |
| 55 | 1" X 2" X 4'-0" DOUGLAS FIR. |
| 56 | 1" X 2" X 2'-0" DOUGLAS FIR. |
| 57 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 58 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 59 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 60 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 61 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 62 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 63 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 64 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 65 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 66 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 67 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 68 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 69 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 70 | 1" X 2" X 1'-0" DOUGLAS FIR. |
| 71 | 1" X 2" X 1'-0" DOUGLAS FIR. |

SYMBOLS:

- 13.8 KV OVERHEAD LINES
- CABLE RUN AT SURFACE WITH GRAVEL COVER
- CABLE RUN IN CONCRETE OR WOOD TROUGH
- 13.8 KV TRANSMISSION POLE
- EXISTING POLE & OVERHEAD LINE
- UNDERGROUND DUCT BANK
- POLE WITH GUY ANCHOR
- CONDUIT RUN CHECKED
- CONDUIT TURNING FROM OBSERVER
- CONDUIT TURNING TOWARD OBSERVER
- 9000-25 — 9000 = CONDUIT NO. 2½ = 2" CONDUIT RIGID GALV STEEL

NOTES:

1. ALL DUCT BANKS TO BE REINFORCED WITH TWO PAGE BANDS ABOVE OF NON DISTURBED EARTH. WHERE DUCT BANKS ENTER BUILDINGS, REINFORCING RODS ARE TO BE CONTINUED TO INSIDE FACE OF BUILDING WALL.
2. ALL CONCRETE TO HAVE 28-DAY COMPRESSIVE STRENGTH OF 3000 LBS. PER SQUARE INCH
3. ALL CONCRETE USED TO ENCASE UNDERGROUND ELECTRICAL DUCT SHALL BE COLORED RED.
4. ALL CONDUITS IN DUCT BANK SHALL BE 2" FIBRE UNLESS OTHERWISE NOTED
5. USE DRAFT TWINE AS REQUIRED FOR ASSURING FIBRE DUCTS IS ENCASED BEFORE POURING CONCRETE.
6. ANY EXCESS POLE LENGTHS TO BE TRIMMED FROM TOP OF POLE.
7. USE CAUTION IN LAYING AND COVERING CABLES TO PREVENT DAMAGE TO CABLE JACKETS.
8. TEST CABLES PER DOP-6.6.3 PRIOR TO USE.
9. ENTER SPERT I BLOCKHOUSE VIA EXISTING DOWNTURNED CONDUITS LEAVING 10 FT MIN. FREE END ON ALL CONDUCTORS INSIDE BLOCKHOUSE FOR TERMINATION BY ANC.
10. CLEAR AND MAINTAIN A 30' FIRE BREAK CENTERED ON EACH CABLE RUN.
11. CABLE C-9-30-205 CONTAINS A BURIED SPLICE PER FCF-790 LOCATED APPROXIMATELY 12 FEET TOWARD SPERT I FROM THE CORNER OF THE SIGNAL TRENCH.

REFERENCE DRAWINGS:

| | |
|---|---|
| | 1000 - PER/PBF |
| 1000 CABLE RUNS, OVERHEAD LINES & PROTECTIVE LIGHTING - SECTIONS & DETAILS | 0-400 |
| DOOR - 10 PLAN SECTIONS & DETAILS | 0-400 |
| EMERGENCY GENERATOR BUILDING MISC. PIPING & A & V AND ELECT. ARRANGEMENT | 621-0-1 |
| CABLE AND CONDUIT SCHEDULE NO. 1-0 | 620-E-39-00 |
| REACTOR BLDG. - BASE FLOOR CONDUIT & GROUNDING | 620-E-07 |
| REACTOR BLDG. - FIRST BASEMENT CONDUIT & GROUNDING | 620-E-08 |
| REACTOR BLDG. CABLE LINE WIRING DIAGRAM | 620-E-1 |
| CONTR'S BLDG. CONDUIT & GROUNDING | 620-E-2 |
| CONTROL BLDG. CABLE LINE WIRING DIAGRAM | 620-E-6 |
| CONTROL BLDG. CABLE & CONDUIT SCHED | 620-E-6 |
| TELEPHONE INSTALLATION | 1570-PBF-400-1 (6 of 5 0) |

NOTES CONTINUED:

12. FOR ADDITIONAL UNDERGROUND CONDUIT LINES & LOCATIONS SEE:

| | |
|---|---|
| DIESEL GENERATOR PLOT PLAN | 1375-PBF-403-1 |
| DIESEL GENERATOR PIPING PLAN | 1375-PBF-620-P-26 |
| DIESEL GENERATOR BARO & RING PLAN & DETAILS | 1325-PBF-202-1 |
| HOT WASTE STORAGE CAPACITY INCREASE | 414200 |
| PBF CORROSIVE WASTE DISPOSAL MODIFICATIONS | |
| CATHODIC PROTECTION LAYOUT | SPT-D-8751 |

| | | | |
|---|---|---|---|
| 13 | SEE 13 DCN | | |
| 12 | SEE 12 DCN | | |
| 11 | SEE 11 DCN | | |
| 10 | SEE 10 DCN | | |
| 9 | SEE 9 DCN | | |
| 8 | ADDED STATUS DECAL | | |
| 7 | REPLACES REV 5 WITH CHANGE SEE ING & ADCN & 7 DCN | | |

REVISIONS

POWER BURST FACILITY
YARD CABLE RUNS
AND OVERHEAD LINES
PLAN, SECTIONS, & DETAILS

EBASCO SERVICES INCORPORATED
ARCHITECT - ENGINEER

U.S. ATOMIC ENERGY COMMISSION
IDAHO OPERATIONS OFFICE
IDAHO FALLS, IDAHO

INDEX CODE NUMBER: 761 0900 1 205 123012

DATE OCT 8, 1965

1205 — PBF-U-401

Dwg. # 123012

# Additional Related Information for Drawing Number 123012

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[redacted]

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## Master Information

| | |
|---|---|
| **Revision Number** | 0013 |
| **Alternate Id** | 1205-PBF-U-401 |
| **Total Pages** | 01 |
| **Status** | ACTIVE |
| **Status Date** | 01-JAN-68 |
| **Title** | PBF YARD CABLE RUNS & OVERHEAD LINES PLAN SECTIONS & DETAIL |
| **Remarks** | |
| **Essential** | |
| **Master Facility** | |
| **Not checked out** | Click here to check out the drawing |
| **Project** | |
| **Subcontract** | |
| **Documetrix Tracking Status** | 3 |
| **Documetrix Rendor Volume Name** | \wip |
| **Revision on Documetrix** | 0013 For on-line history click here |
| **Assessed Date** | |
| **Owner** | |
| **Control Center** | EROB |

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# Index Code

| Area Code | Type | Class | Originator |
|---|---|---|---|
| 761 | 0400 | 10 | 205 |

# Special Codes

| |
|---|
| 1008 |

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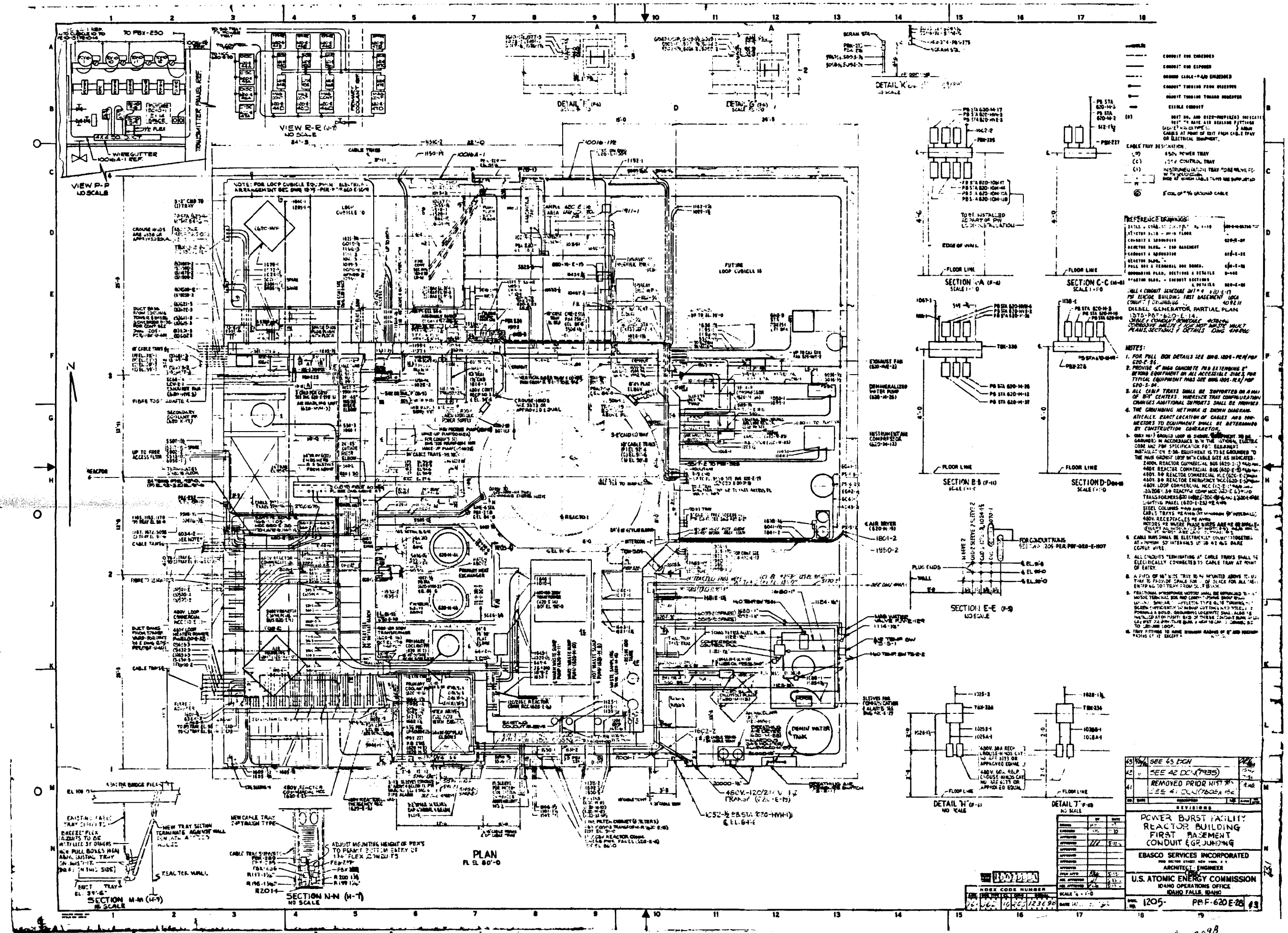

PLAN
FL EL 80'-0
VIEW P-P
NO SCALE
VIEW R-R
NO SCALE
DETAIL "F"
DETAIL "G"
DETAIL "K"
SECTION A-A
SECTION C-C
SECTION B-B
SECTION D-D
SECTION E-E
NO SCALE
DETAIL "H"
NO SCALE
DETAIL "J"
NO SCALE
SECTION M-M
NO SCALE
SECTION N-N
NO SCALE
FUTURE LOOP CUBICLE 16
DEMIN WATER TANK
REFERENCE DRAWINGS:
NOTES:
1. FOR PULL BOX DETAILS SEE DWG. 1205-PER/PBF 620-E-36.
2. PROVIDE 4" HIGH CONCRETE PAD EXTENDING 2" BEYOND EQUIPMENT ON ALL ACCESSIBLE SIDES. FOR TYPICAL EQUIPMENT PADS SEE DWG. 1205-PER/PBF 620-S-34.
3. ALL CABLE TRAYS SHALL BE SUPPORTED ON A MAX OF 8'-0" CENTERS. WHEREVER TRAY CONFIGURATION CHANGES ADDITIONAL SUPPORTS SHALL BE PROVIDED.
4. THE GROUNDING NETWORK IS SHOWN DIAGRAMATICALLY. EXACT LOCATION OF CABLES AND CONNECTORS TO EQUIPMENT SHALL BE DETERMINED BY CONSTRUCTION CONTRACTOR.
5. ONLY 1/4" GROUND LOOP IS SHOWN. EQUIPMENT TO BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND PBF SPECIFICATION FOR EQUIPMENT INSTALLATION E-36. EQUIPMENT IS TO BE GROUNDED TO THE MAIN GROUND LOOP WITH CABLE SIZE AS INDICATED.
6. CABLE TRAYS SHALL BE ELECTRICALLY CONNECTED TOGETHER AT MINIMUM 50' INTERVALS USING 4/0 AWG BARE COPPER WIRE.
7. ALL CONDUITS TERMINATING AT CABLE TRAYS SHALL BE ELECTRICALLY CONNECTED TO CABLE TRAY AT POINT OF ENTRY.
8. A PIPE OF 1/8" WIDE TRAY TO BE MOUNTED ABOVE TO ALL TRAY TO PROVIDE SPACE FOR ... OF SLACK FOR ALL CABLES ENTERING TO TRAY FROM SLOT BLOCK.
9. FRACTIONAL HORSEPOWER MOTORS SHALL BE GROUNDED TO ... MOTOR TERMINAL BOX AND CONNECTIONS GROUP BLOCK ... SHALL BE INSTALLED AT OPPOSITE END OF THE BASE CONTACT BLOCK ... TO GROUND LOOP.
10. TRAY FITTINGS TO HAVE MINIMUM RADIUS OF 8" AND MINIMUM RADIUS OF 12" EXCEPT ...
REVISIONS
POWER BURST FACILITY
REACTOR BUILDING
FIRST BASEMENT
CONDUIT & GROUNDING
EBASCO SERVICES INCORPORATED
ARCHITECT - ENGINEER
U.S. ATOMIC ENERGY COMMISSION
IDAHO OPERATIONS OFFICE
IDAHO FALLS, IDAHO
1205-
PBF-620 E-28


Proj # 123098

# Additional Related Information for Drawing Number 123098

## Master Information

RECEIVED
FEB 28 2001
Environmental Cleanup Office

**Revision Number** 0043
**Alternate Id** 1205-PBF-620-E-28
**Total Pages** 01
**Status** ACTIVE
**Status Date** 20-NOV-92
**Title** REACTOR BUILDING FIRST BASEMENT CONDUIT & GROUNDING
**Remarks** PROJECT # 020555 / REV 43 PBF DCN 8625 /
**Essential**
**Master Facility**
**Not checked out** Click here to check out the drawing
**Project**
**Subcontract**
**Documetrix Tracking Status** Document not found in Documetrix
**Documetrix Rendor Volume Name** Document not found in Documetrix
**Revision on Documetrix** Not on Documetrix. Check Aperture Card
**Assessed Date**
**Owner**
**Control Center** EROB

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## Index Code

| Area Code | Type | Class | Originator |
|---|---|---|---|
| 761 | 0620 | 10 | 205 |

# Closed Dars

| Dar Number | Incorporated Revision | Revision Date |
|---|---|---|
| 7803 6982 | 41 | |
| STATUS | 39 | |
| X | 43 | |
| X 7935 | 42 | |
| X X | 40 | |

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