DO NOT SCALE
TOLERANCE ON PRINCIPAL DIM. IS ± 1/2
AND ON DECIMAL DIM. IS ± .01
UNLESS OTHERWISE SPECIFIED

Note: On Valve Station Service Generator Breaker Is Open Indicates Emergency Generator Is Running. To Avoid Paralleling, Either The Generator Or Intake Distribution Circuit Breaker Must Remain Open

Spacing, Pilot Light Nameplate

44. Red Pilot Nameplate — 3 Required
Valve Fully Open

45. Selector Switch Nameplate — 3 Required
Test / Operate

43. Green Pilot Nameplate — 3 Required
Valve Fully Closed

46. Push Button Nameplate — 3 Required
Open / Close / Stop

Provide 30" Door Stops On Metal Doors

Provide A Foundation Of Channel Base With 1" Minimum Top Surface Grouted Flush, Using A Cement Mix Grout (Fine Nuts Welded To Back)

Ground Connection At Each End Of Base

Shade Area Indicates Channels To Be Level

PERMANENT CHANNEL BASE

Detail A-A

Drill 6-1" Anchor Bolt Holes

Drill 12-2" Grout Placing Holes

N-9/16" Holes With 1/2-13 Nuts Welded To Bottom Side Of Channel Sills (Provide 12-1/2-13 x 3/4 Cap Screws)

5" [6.7 #/ft.

PLAN VIEW OF SWITCHBOARD

Provide Full-Length Barriers Between Section With Bushed Holes For Wiring Between Sections

Provide Bushed Holes In Barrier Sides & Cable Wires In Channel Raceway To Frame Breakers

2-Full Length Side Panels At Shipping Split

Sub Panel

Opening 3" Back Of Vert. & Of Panel 14" W x 10" H - 44" Above Base To Horiz. ℄ Of Opening

12-Punched Holes For Cell

"Station Service Generator"

"Valve House Distribution"

Split Shed Here For Shipping

"Irrigation Regulating Valve No 3"

Primary Resistors Square D Co Type "Edgecrest" "PR" Class 4105 NEMA Class 1A Mount To Back Of Board

"Irrigation Regulating Valve No 2"

"Irrigation Regulating Valve No 1"

Equipment In Panel 4 To Be Mounted & Wired The Same As Panel 3

Equipment In Panel 5 To Be Mounted & Wired The Same As Panel 3

Term. Strip For Front Panel Mtd. Instruments & Push Buttons

Extend Resets On Starters

Horizontal Raceway

Ground Cable To Shed, See Ground Lug For Field Use

Back Of Panel Boards To Be Accessible

The 2 Shed Shipping Sects. Not To Be Fitted Also With Temporary Channel Sills & Shipped In A Horizontal Position.

FRONT ELEVATION

No.	Description	Req'd
1	Potential Transformers (A) 11-60834 50~ Westinghouse	3
2	D.C. Ammeter S-(B) 1338394 KX2B With Shunt	1
3	A.C. Ammeter D-Amp (B) 1207784 60~ Type KA 25	1
4	A.C. Voltmeter 0-600 Volts (B) 1338123 50~ Type KA 25	1
5	Frequency Mtr. 35 Sw. To (B) 1208011 Ex. 50~ W Type FF	1
6	Ammeter Switch (B) 1121878 Type W	1
7	Voltmeter Switch (B) 1173014 Type W	1
8	Inverse Time Relay 5Am. To (B) 1271197 Ind 50~ Type CO	1
9	Voltage Adjusting Rheostat Ohmite	1
10	Exciter Field Rheostat (B) 14-613 Ohmite	1
11	Voltage Regulator (B)	1
12	Voltage Regulator Auxiliary (B)	1
13	Current Transformers (B) 1435481 Type CT 215	3
14	Neutral Grounding Resistor (B) 5-1154120	1
15	100 VA 115/105 Synchrotie Supply Transf. (B) 12-5-7458	3
16	Synchrotie Position Receiver (B) Type KS-25	3
17	Selector Switch Square D Co. 9001 T31A	3
18	Stop Open Close Red & Green Pilots Square D Co.	3
19	Reversing Starter 115 Volt Coil	3
20	Timer (B) Type TK 105 SE5 52~	2
21	Control Transformer - Western Co.	3

Bill of Material

*Furnished By Customer
All Other Equipment To Be Square D Co
Catalog Numbers As Shown. See Dwg D-1855 SF-2

Notes
1. Construct Cabinet & Fronts Of #12 Ga Stretcher Leveled Steel.
2. Breakers To Be Square D Co Type NYB (277 Volts) For 1-Pole Breaks, Type MZ For 3 Poles 100 Amp Frame Breks, & ML3 Spaces For Future.
3. Main Breaker To Be I.T.E. Co Type ET With Shunt Trip Device For Operation On 125 Volts D.C. & Also Equipped With Auxiliary Switch (1a).
4. Engraved Bakelite Nameplates To Be Provided As Shown & Per Dwg C-2059 SF.
5. Provision Shall Be Made For Cross-Wiring Between Panels. Wiring Shall Be Identified At Each End & May Be Cabled.
6. Wiring To Devices On Hinged Doors Shall Include Extra Terminal Blocks & Proper Hinge Wiring.
7. Shed To Be Wired Per Dwg D-1855 SF-2 With Code Ga Wire Type TW & RW.
8. Finish Of Shed Sections: Clean & Degrease - 1 Coat Zinc Chromate Primer, 2 Finish Coats Light Gray Lacquer, Inside & Outside.
9. Finish Of Permanent Base: Clean & Degrease; 1 Coat Soluble Rust-Preventive Compound.
10. Control Push Buttons & Pilot Lights In Cells 2C, 2D & 2E To Be Square D Co Type "T" (Oil Tight).

No.	Date	Revisions	By	Appd
A	8-15-51	Minor Rev.	W.W.	
A	8-29-51	Instruments Revised	W.W.	
A	7-18-52	Minor Revisions	W.W.	
A	7-11-58	General Revision	W.W.	

CUSTOMER'S APPROVAL — DATE

Contr. M & K Engineers, P.O. No. 5858 — Sales Appr.
Jobber Power Equip. P.O. No. 5858 — Ch. Office
Scale 1/4" = 1'-0" — Dwn. By W.W.K. — Chkd. By

SQUARE D COMPANY
ELECTRICAL EQUIPMENT
WESTERN DIVISION

Valve House Switchboard
3 ϕ 4 Wire 400 Volt 50~ Service
Morrison Knudsen Afghanistan
Kajaki Dam - Afghanistan

Date 7-9-51 — Job No. 6858

DWG. No. D-1855 SF-1