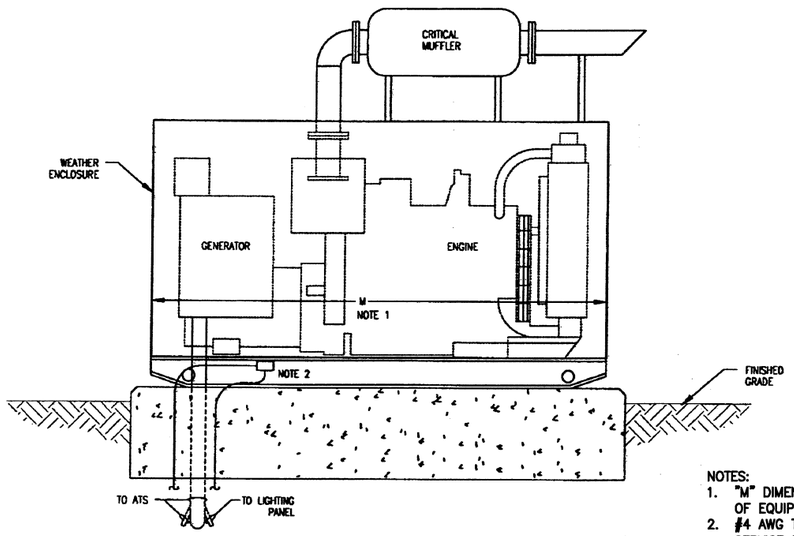
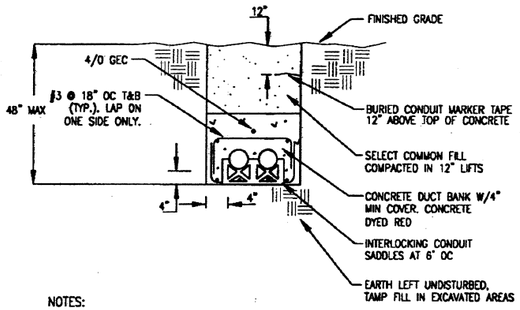


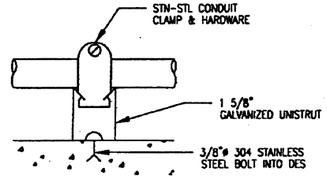
01 ELEVATION OF STANDBY GENERATOR
NOT TO SCALE



NOTES:
1. TYPICAL REINFORCEMENT SHALL BE #3@ 6" T & B.
2. NUMBER AND SIZE OF CONDUITS SHALL BE AS SHOWN ON THE PLANS.
3. TOP OF CONCRETE ENCASEMENT SHALL BE A MINIMUM OF 18" FROM FINISHED GRADE.

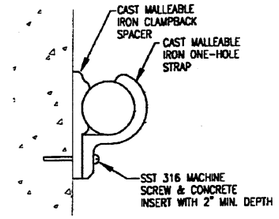
02 DETAIL - CONCRETE ENCASED UNDERGROUND DUCTBANK
NOT TO SCALE

NOTES:
1. "M" DIMENSION SHALL BE MANUFACTURER'S DIMENSION OF EQUIPMENT FURNISHED.
2. #4 AWG TO GROUND RODS AND #4/0 E.G.C. TO SERVICE ENTRANCE PANEL (ATS.)
3. WIDTH AND LENGTH OF SLAB WILL BE "M+12" ON EACH SIDE. SLAB SHALL BE 24" THICK.
4. 3000 PSI CONCRETE PAD, REINFORCED WITH #6 REBARS @ 12" O.C.B.W. TOP AND BOTTOM. 1" CHAMFER ALL AROUND TOP. EXPOSED CONCRETE SURFACES SHALL BE RUBBED SMOOTH. COMPACT SOIL UNDER PAD TO PROCTOR 90.

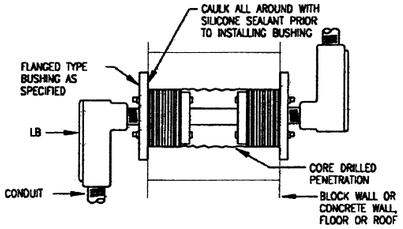


NOTES:
1. SLOTTED CHANNEL MEMBERS TO BE SOLID BODY ALUMINUM, EXCEPT AS NOTED WHERE SOLID BODY STN-STL IS SHOWN OR OTHER TYPES
2. USE 1 5/8"W X 3 1/4" (OR 4") DEEP TYPES WHERE EXTRA HEIGHT OF CHANNEL MEMBER IS REQUIRED

03 TYPICAL CONDUIT SUPPORT FOR SURFACE-MTD RUNS ON CONCRETE
NOT TO SCALE

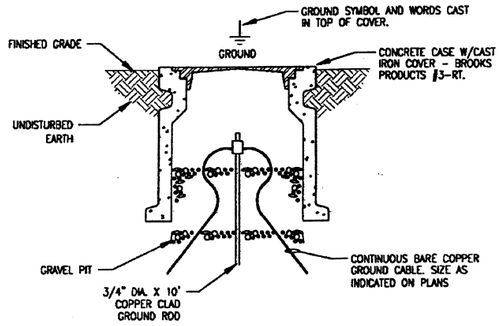


04 TYPICAL CONDUIT SUPPORT ON CONCRETE STRUCTURES FOR SINGLE CONDUIT RUNS
NOT TO SCALE



NOTES:
1. TYPICAL FOR NEW PENETRATIONS OF EXISTING WALLS, ROOFS & FLOORS.
2. REPAIR ALL DAMAGE DONE BY CORE DRILL.

05 WATERTIGHT CONDUIT PENETRATION
NOT TO SCALE



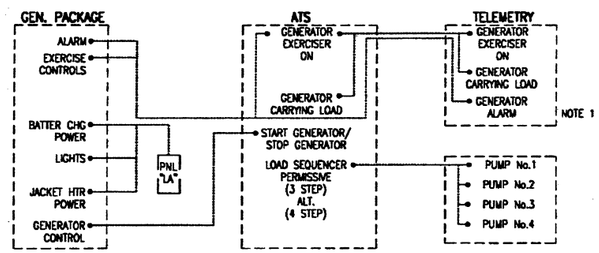
07 GROUND ROD & WELL
NOT TO SCALE

CONDUIT & CABLE SCHEDULE

TAG	WIRING	CONDUIT	SOURCE	DESTINATION	COMMENT
A	3 SETS: 3-500kCMIL, #1/0 N	3"	TUE TRANSFORMER	ATS	EXISTING CONDUITS-REQUIRES MODIFICATION
B	3 SETS: 3-500kCMIL, #1/0 N	3"	GENERATOR	ATS	NOTE 1
C	3 SETS: 3-500kCMIL, #4/0 EGC	T	ATS	MCC-1	EXISTING MCC-1
D	1000 BUS BAR		ATS	MCC-2	NOTE 2
E	3#12, #12G 3/4.	3/4	MCC-2	AIR CONDITIONER	
F	3/4/0, #4G T.C.	T	MCC-2	PUMP No.1	
F1	2/12, #12G T.C.	T	MCC-2	PUMP No.1	MOTOR SPACE HEATER
G	3/4/0, #4G T.C.	T	MCC-2	PUMP No.2	
G1	2/12, #12G T.C.	T	MCC-2	PUMP No.2	
H	3/4/0, #4G T.C.	T	MCC-2	PUMP No.4 (ALTERNATE)	
H1	2/12, #12G T.C.	T	MCC-2	PUMP No.4 (ALTERNATE)	
I	3/12, #12G, 2#14	3/4"	MCC-2	EF-4 EXHAUST FAN	
J	20/14	1"	GENERATOR	DISPLAY	
K	2/10, 4/12, #10G	1"	GENERATOR	PANEL "LA"	BATTERY CHARGER, HEATERS
L	4/12, #12G	1"	GENERATOR	ATS	CONTROLS
M	25#14	1"	ATS	RTU	CONTROLS & REPORT BACK FROM ATS & PUMPS
P	2/14, #14G	3/4"	P-1 CHECK VALVE	CHECK VALVE J-BOX	VALVE CLOSED
Q	2/14, #14G	3/4"	P-2 CHECK VALVE	CHECK VALVE J-BOX	VALVE CLOSED
R	2/14, #14G	3/4"	P-4 CHECK VALVE	CHECK VALVE J-BOX	VALVE CLOSED (ALTERNATE)
S	8/14, #14G	3/4"	CHECK VALVE J-BOX	RTU CABINET	VALVE CLOSED SIGNALS (2 SPARE CONDUCTORS)
T	2/14, #14G	3/4"	A/C THERMOSTAT	MCC-2	
U	2/14, #14G	3/4"	EF-4 THERMOSTAT	MCC-2	
X	3 SETS: 3-400kCMIL, #2/0G	3"	TUE TRANSFORMER	MCC-1	NOTE 3
Y	3/C-350kCMIL T.C.	T	MCC-1	PUMP No.2	NOTE 4
Y1	5/12 T.C.	T	MCC-1	PUMP No.2	NOTE 4
Z	3/C-350kCMIL T.C.	T	MCC-1	PUMP No.1	NOTE 4
Z1	5/12 T.C.	T	MCC-1	PUMP No.1	NOTE 4

* T = TRAY
T.C. = TRAY CABLE

NOTES:
1. PVC COATED R.G.S CONDUIT. GROUND TO GENERATOR FRAME AND TO ATS S/N.
2. IF ATS AND MCC-2 REQUIRE CABLE CONNECTIONS, PROVIDE TAG "D" SAME AS TAG "C".
3. REMOVE CABLE. CONDUIT IN BUILDING TO BE ROUTED TO TRAY.
4. REMOVE CABLE FROM TRAY, COIL AND TAPE ENDS. DELIVER TO OWNER.



* REFER TO CONDUIT & CABLE SCHEDULE.

NOTES:
1. RUN CONDUIT AND PULL CONDUCTORS TO TELEMETRY CABINET. ALLOW ENOUGH CONDUCTOR TO REACH ANY LOCATION IN CABINET. CONDUCTORS TO TELEMETRY CABINET SHALL ORIGINATE AT DRY CONTACTS IN GENERATOR PACKAGE, ATS PACKAGE AND TELEMETRY.

CONTROL & ALARM BLOCK DIAGRAM

This record drawing is a compilation of the sealed engineering drawing for this project; modified by addenda, change orders and information furnished by the contractor. The information shown on the record drawings that was provided by the contractor or others not associated with the design engineer cannot be verified for accuracy or completeness. This original sealed drawings are on file at the offices of Birkhoff, Hendricks & Conway, L.L.P.

BY G.C.H. DATE 05/06/09

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STATE OF TEXAS
JOHN A.W. FRY
37435
REGISTERED PROFESSIONAL ENGINEER

4-8-99

CITY OF ROCKWALL, TEXAS

EASTSIDE PUMP STATION
ELECTRICAL DETAILS II

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J. A. FRY	PROJECT: 98 192	SHEET NO. 11
DRAWN BY: R. E. BRADY	DATE: APRIL 1999	OF 12 SHEETS

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4/08/99 JLY