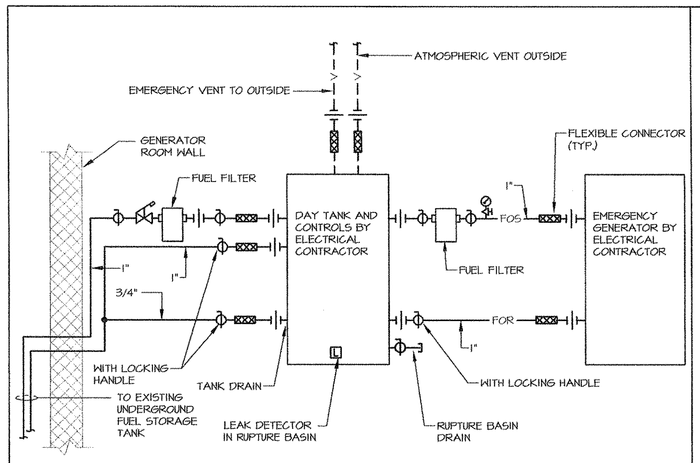
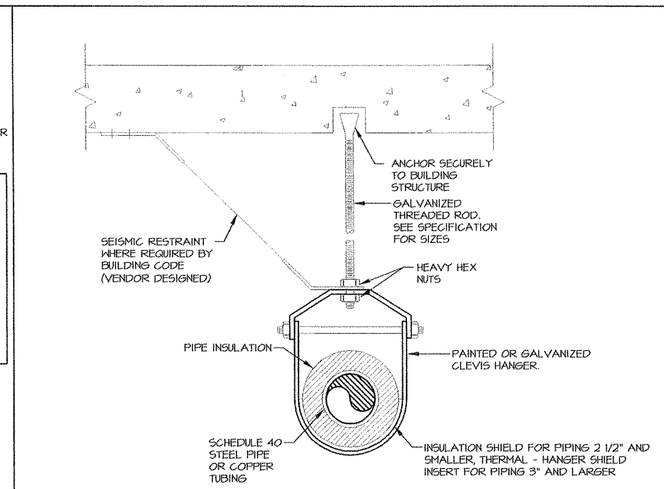
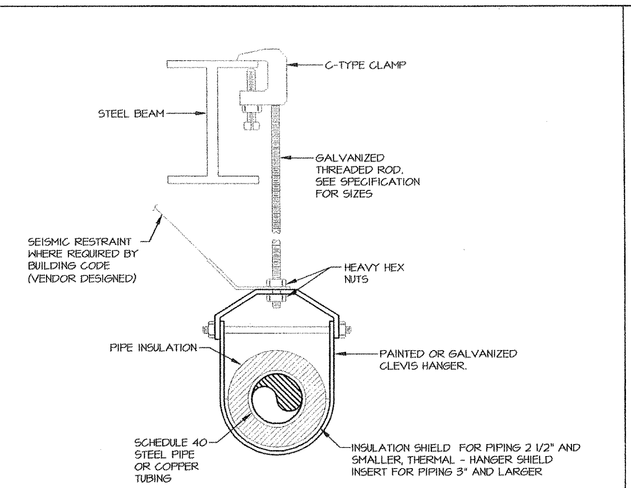


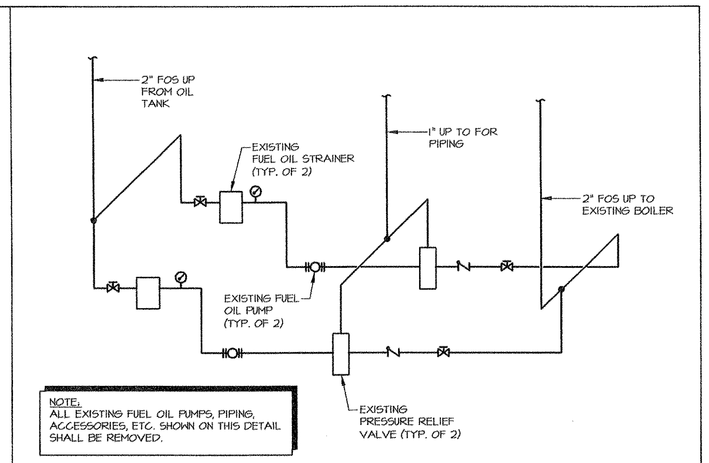
A1 NOT TO SCALE — **Detail of Fuel Oil Piping to Generator**



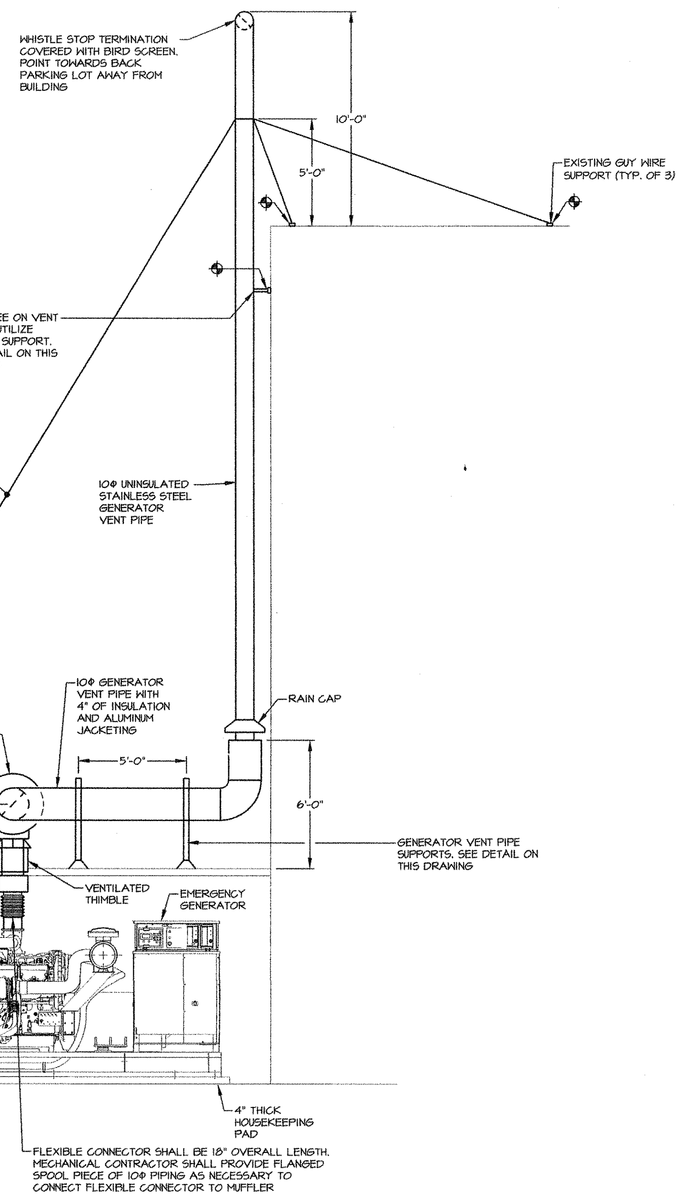
A2 NOT TO SCALE — **Detail Showing Attachment of Piping to Concrete Structure and Clevis Hanger**



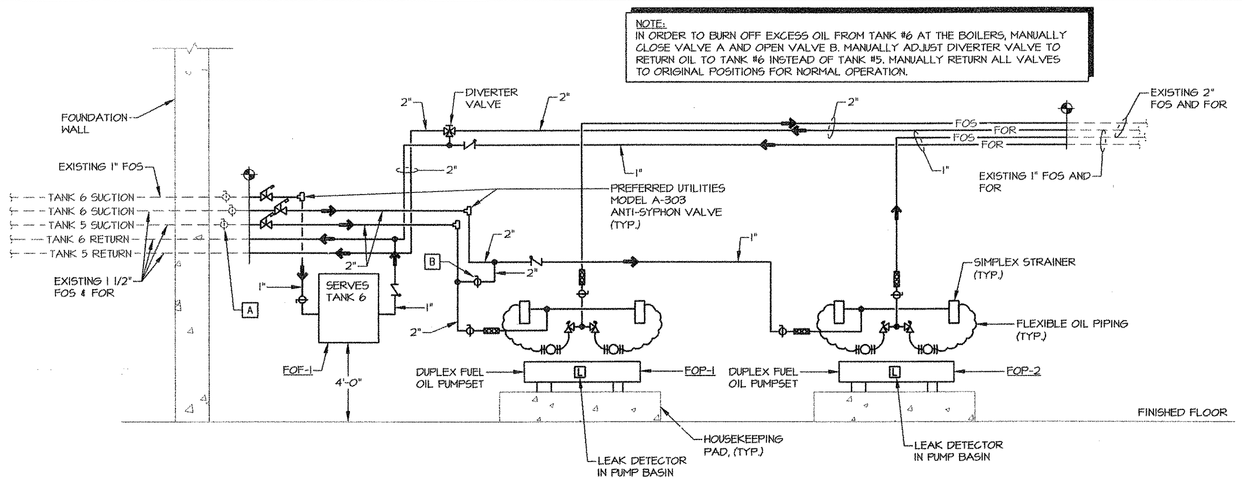
A3 NOT TO SCALE — **Detail Showing Attachment of Piping to Conventional Steel Structure and Clevis Hanger**



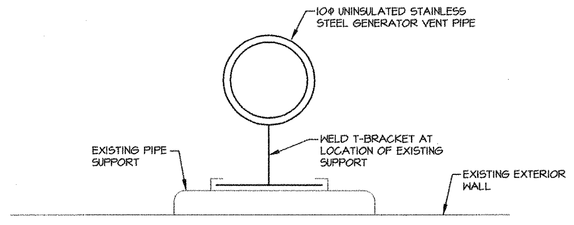
A4 NOT TO SCALE — **Fuel Oil Pumpset Demolition Part Plan**



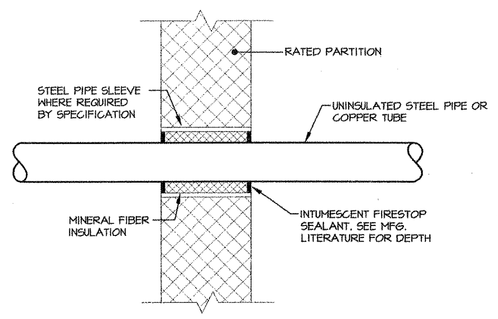
D1 NOT TO SCALE — **Generator Elevation Detail**



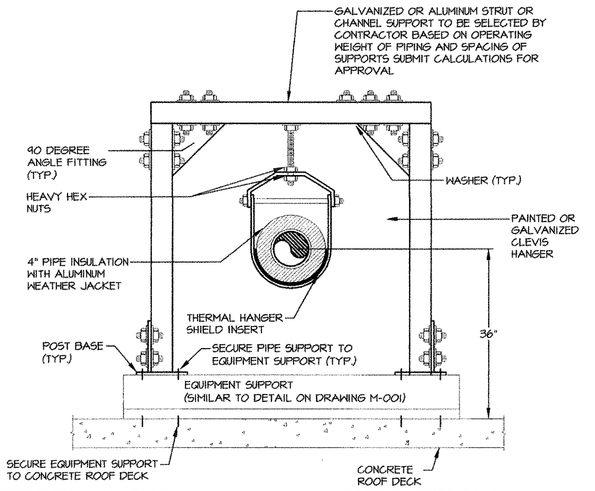
B3 NOT TO SCALE — **Fuel Oil Pumpset Part Plan**



C3 NOT TO SCALE — **Detail of Existing Generator Vent Pipe Support**



B1 NOT TO SCALE — **Detail of Firestopping Uninsulated Pipe Penetrations of Rated Partitions**



B2 NOT TO SCALE — **Detail of Pipe Supports for Generator Exhaust Piping on Roof**

SYMBOLS & ABBREVIATIONS

- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED (DEMOLITION PLAN ONLY)
- LPC — LOW PRESSURE CONDENSATE
- LPS — LOW PRESSURE STEAM
- D — DRAIN PIPING
- V — VENT
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- FOS — FUEL OIL SUPPLY
- FOR — FUEL OIL RETURN
- PIPING OFFSET UP
- PIPING OFFSET DOWN
- BRANCH TAKEOFF FROM PIPING MAIN
- BALL VALVE
- PIPE UNION
- CHECK VALVE
- PRESSURE GAUGE
- PRESSURE GAUGE WITH GAUGE COCK
- STEAM TRAP
- DIRECTION OF FLOW
- PIPE CAP
- FUSIBLE LINK VALVE
- FLEXIBLE CONNECTOR
- DRAIN VALVE
- AV — AIR VENT
- WALL-MOUNTED THERMOSTAT
- EXISTING DUCTWORK TO BE REMOVED (DEMOLITION PLAN ONLY)
- EXISTING DUCTWORK TO REMAIN
- NEW DUCTWORK
- DUCT OFFSET DOWN
- FD — FLEXIBLE DUCTWORK
- FD — FIRE DAMPER
- VD — VOLUME DAMPER
- OBD — OPPOSED BLADE VOLUME DAMPER
- MOD — MOTOR OPERATED DAMPER
- WSG — WALL SUPPLY GRILLE
- WEG — WALL EXHAUST GRILLE
- WTG — WALL TRANSFER GRILLE
- WTD — WALL TRANSFER DUCT
- CFM — CUBIC FEET PER MINUTE
- ø — DIAMETER
- TYP. — TYPICAL
- E/ — EXISTING
- BAS — BUILDING AUTOMATION SYSTEM
- DDC — DIRECT DIGITAL CONTROL
- DN — DOWN
- ATC — AUTOMATIC TEMPERATURE CONTROLS
- CONNECT NEW TO EXISTING

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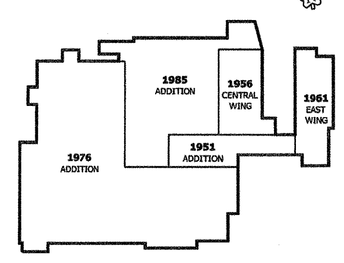
LETTER:	DATE:	DESCRIPTION:
A	05/08/09	100% OWNER REVIEW SET
B	08/13/09	ISSUED FOR BID

REVISION:

NO:	DATE:	DESCRIPTION:

KEY PLAN:



DRAWING TITLE:
PIPING DETAILS

DRAWN BY: MEB	SEAL:
CHECKED BY: AG	
SCALE: AS NOTED	
PROJECT NO.: 093274.00.E	

DRAWING NO.:
M-002

CAD FILE NAME:
R:\Dwg - Engineering\093274.00.E MMC - Generator - MV Gear Replacement\Project\Sheets\Drawing Set\Mechanical\M-002.dwg

Monday, August 31, 2009 - 1:36:42 PM - mbonner