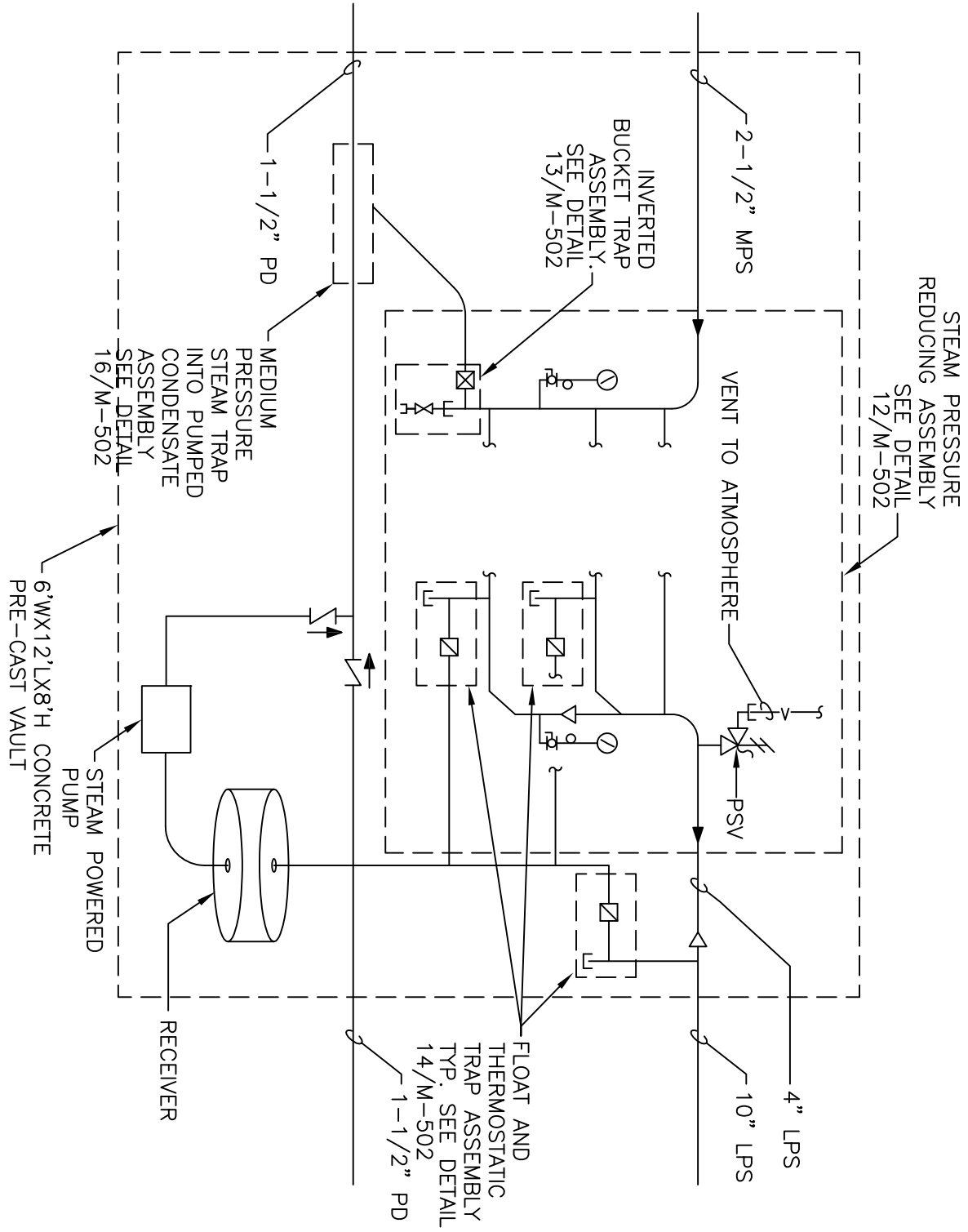


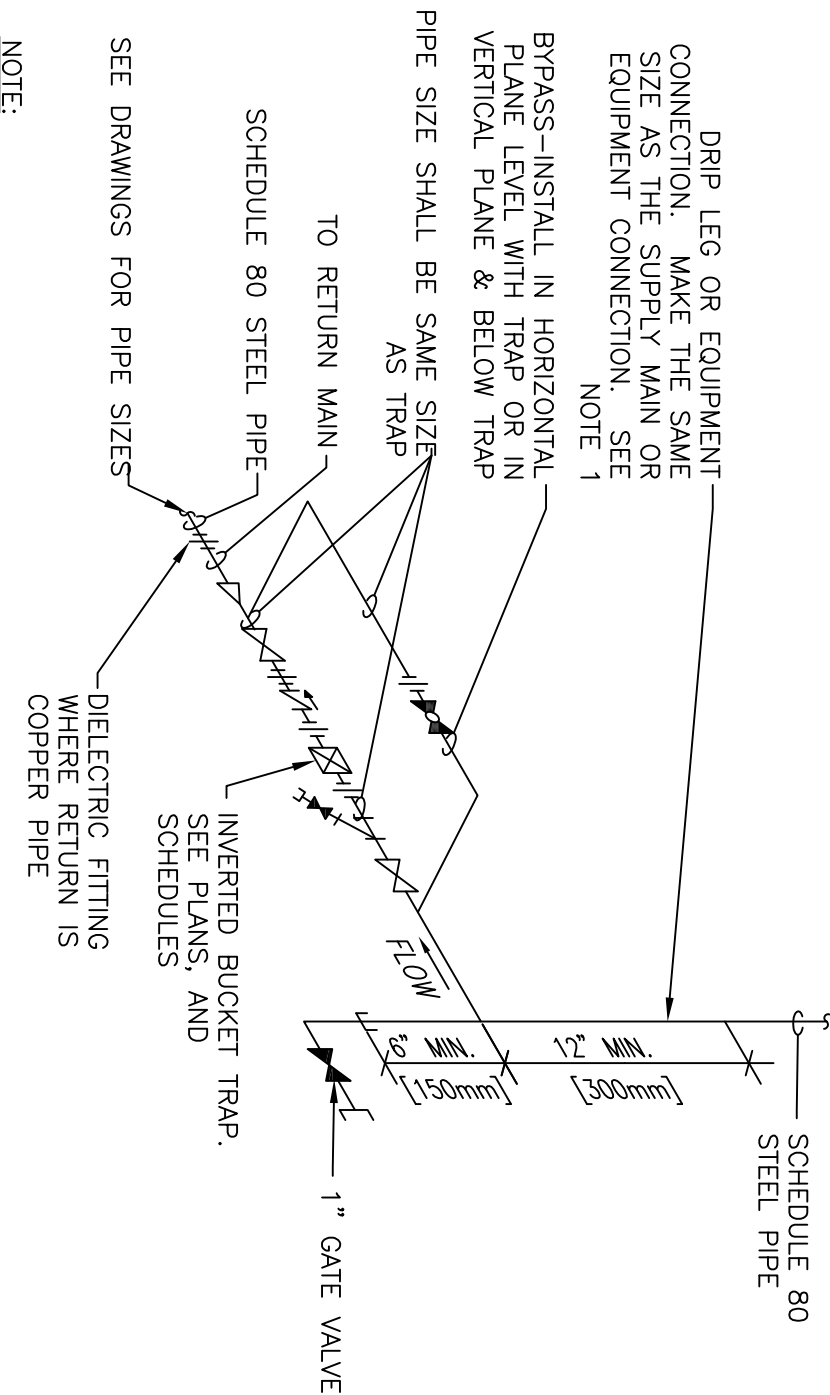
1. SEE FLOOR PLANS FOR PIPE SIZES.
2. SEE EQUIPMENT SCHEDULES FOR VALVE DATA AND PIPE SIZES D1 AND D2. INSTALL VALVES AS RECOMMENDED BY MANUFACTURER.
3. MAKE BYPASS VALVE DISCHARGE PIPE THE SAME SIZE AS D2 FOR THE LARGEST FRA.
4. PROVIDE NECESSARY UNIONS FOR THE REMOVAL OF VALVE WITH SCREWED CONNECTIONS.



1. PROVIDE 6"W X 12" X 8"H CONCRETE PRE-CAST HEAVY DUTY STEAM UTILITY VAULT WITH 37% OPENING (DIMENSIONS ARE MINIMAL) VAULTS SHOULD COME WITH PRE-ENGINEERED LADDER, RISER, TRAFFIC GRADE ACCESS COVER AND SUMP.
2. PROVIDE STRUCTURAL DESIGN SUITABLE FOR LOCATION.
3. PROVIDE STAGED STEEL PENETRATIONS FOR PIPES ENTERING AND LEAVING THE MANHOLE.
4. PROVIDE FRENCH DRAIN BELOW SUMP.
5. PROVIDE JUNCTION BOX IN MANHOLE.

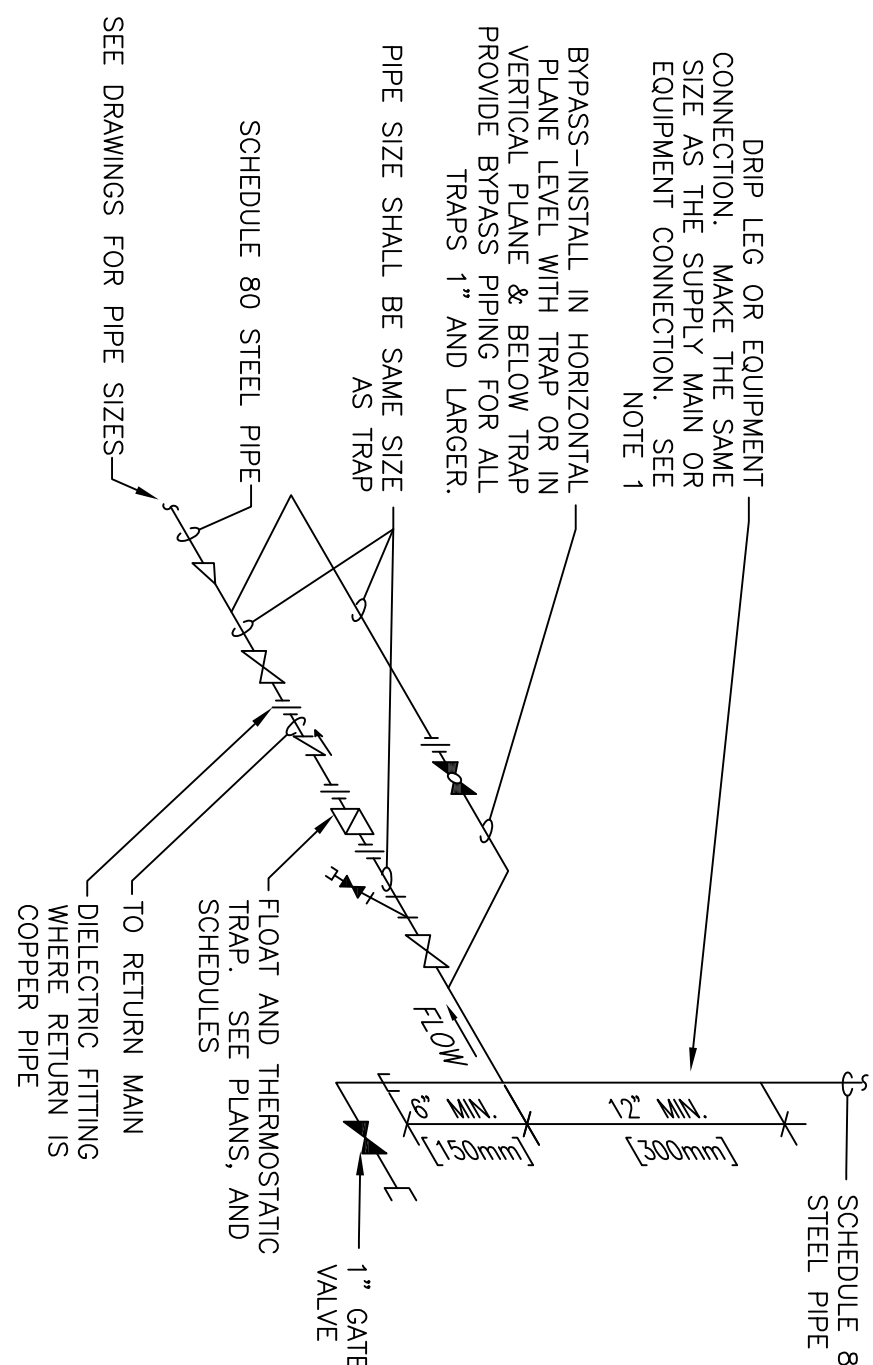
STEAM PRESSURE REDUCING STATION DOUBLE VALVE ($\frac{1}{3}$ AND $\frac{2}{3}$)

BUCKET STEAM TRAP ASSEMBLY



1. ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 1/2" MINIMUM HIGH TRAP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET.
2. PROVIDE BYPASS PIPING.

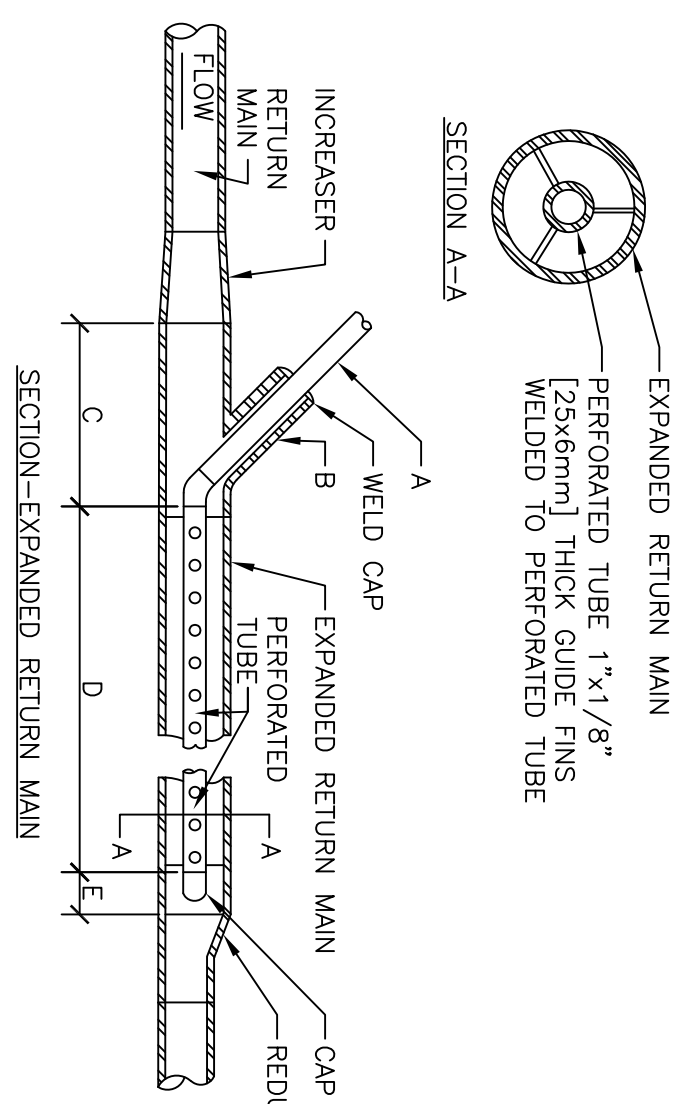
FLOAT AND THERMOSTATIC STEAM TRAP ASSEMBLY



1. ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 12" MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET.

STEAM PRESSURE REDUCING VAULT PIPING SCHEMATIC

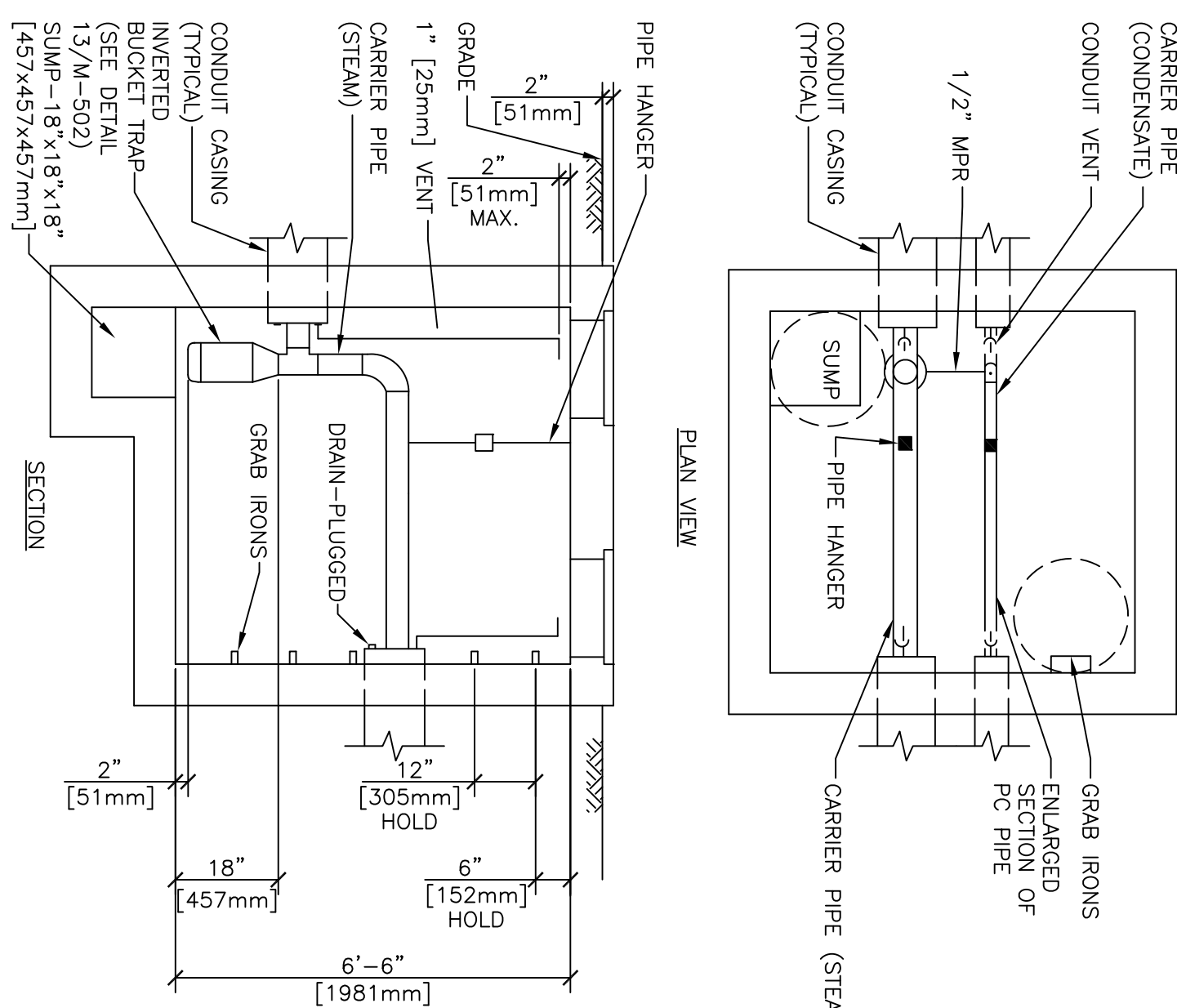
HIGH AND MEDIUM PRESSURE STEAM TRAP DISCHARGE INTO PUMPED CONDENSATE RETURN LINE



RETURN MAN SIZE	1/2 TO 1-1/2"	2"	[50mm]	3"	[75mm]	OVER
EXPANDED RETURN MAN SIZE	2-1/2" TO [60mm]	2-1/2"	[60mm]	SAME SIZE		

- NOTES:
1. 1/2" [12mm] PERFORATED TUBE SHALL HAVE 40 - 1/8" [6mm] DIAMETER HOLES SPACED 1-1/2" [40mm] O.C. IN 4 ROWS.
 2. 3/4" [20mm] PERFORATED TUBE SHALL HAVE 78 - 1/8" [6mm] DIAMETER HOLES SPACED 1-1/2" [40mm] O.C. IN 6 ROWS.
 3. HOLES IN TUBE SHALL BE SPACED EQUALLY AROUND PERIMETER.

PRECAST CONCRETE MANHOLE DETAIL



1. DIMENSIONS ARE MINIMUM UNLESS OTHERWISE NOTED.
2. PROVIDE STRUCTURAL DESIGN SUITABLE FOR SITE LOCATION.
3. FOR ADDITIONAL MANHOLE DETAILS INCLUDING STRUCTURE, VENTILATION AND DRAINAGE CONSULT ARMY TECHNICAL MANUAL, TM-5-810-7.
4. MINIMUM FLOOR SPACE 6'x6' [1829x1829mm].

No.	Description	Date
	FINAL SUBMISSION	9/24/2013
Revisions:		Date

CONSULTANTS

CONSULTANTS	

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Drawing Title
**MECHANICAL
DETAILS**

Drawing Title
**MECHANICAL
DETAILS**
Approved: Project Director

Project Title	VA Erie Parking Structure
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Project Title	Project Number
VA Erie Parking Structure	11159.00
	Building Number
Location	Drawing Number
Erie, PA	M502
Date	
9/19/2013	
Checked	
SCS	
Drawn	
CJM	

**Office of
Construction
and Facilities
Management**



Department of
Veterans Affairs

FINAL SUBMISSION