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 Waltham, MA 02453

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 AKF Group LLC
 99 Bedford Street, 2nd Floor, Boston, MA 02111

CONSTRUCTION MANAGER
 Turner Construction
 2 Seaport Lane, Suite 200, Boston, MA 02210

ELEVATOR CONSULTANT
 VDA (Van Deusen & Associates)
 101 Summer Street, 4th Floor, Boston, MA
 02110

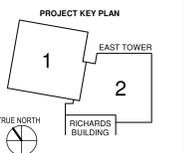
COST ESTIMATOR
 D. G. Jones International
 3 Baldwin Green Common, Suite 202, Woburn, MA 01801

PROJECT TITLE

**East Tower 6 & 7
 Addition**
 22 Bramhall Street
 Portland, ME 04102



KEY PLANS



OVERALL KEY PLAN

- 1 - GILMAN GARAGE
- 2 - CONGRESS STREET
- 3 - VISITOR GARAGE
- 4 - EAST TOWER
- 5 - CENTRAL UTILITY PLANT
- 6 - BEAN BUILDING
- 7 - RICHARDS BUILDING
- 8 - MAINE GENERAL BUILDING

CONSTRUCTION DOCUMENTS

JANUARY 28, 2018

NO	ISSUE	DATE
1	ADDENDUM NO. 1	03/22/18
Job Number	B150312-000	
Drawn	DOC	
Checked	PJR	
Approved	PJR	

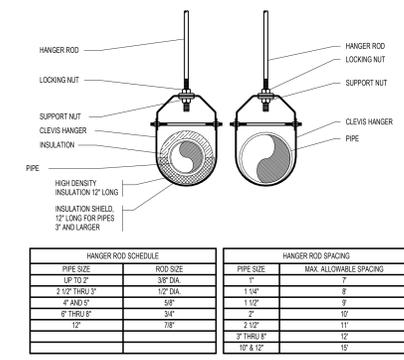
TITLE

PLUMBING DETAILS

SHEET NUMBER

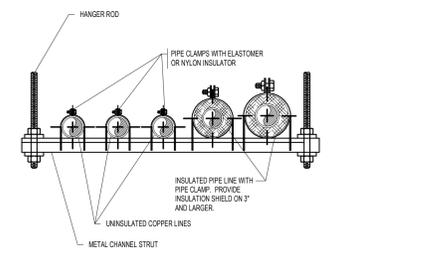
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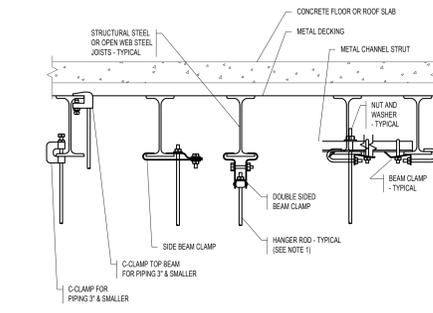


HANGER ROD SCHEDULE		HANGER ROD SPACING	
PIPE SIZE	ROD SIZE	PIPE SIZE	MAX. ALLOWABLE SPACING
UP TO 2"	3/8" DIA.	1"	7'
2 1/2" THRU 3"	1/2" DIA.	1 1/4"	8'
4" AND 5"	5/8"	1 1/2"	9'
6" THRU 8"	3/4"	2"	10'
12"	7/8"	2 1/2"	11'
		3" THRU 4"	12'
		10" & 12"	15'

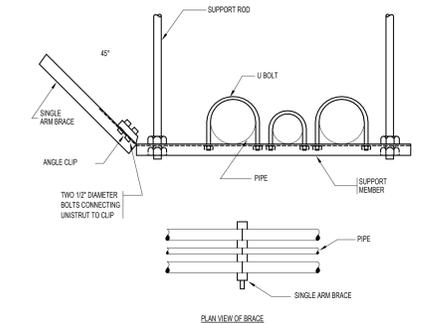
4 PLUMBING PIPE HANGER INSTALLATION DETAIL
 SCALE: NONE



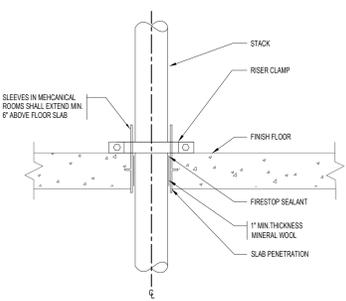
3 TRAPEZE PIPE HANGER
 SCALE: NONE



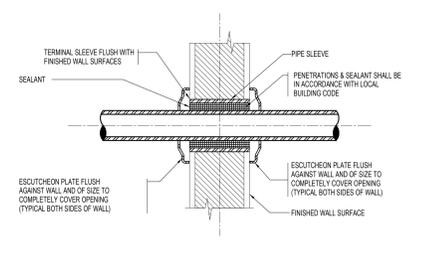
2 TYPICAL METHODS OF SECURING HANGER RODS TO STRUCTURAL STEEL DETAIL
 SCALE: NONE



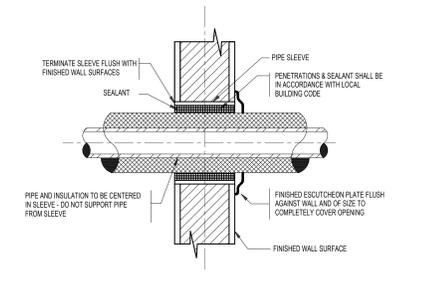
1 SINGLE ARM BRACE FOR TRAPEZE HUNG PIPE
 SCALE: NONE



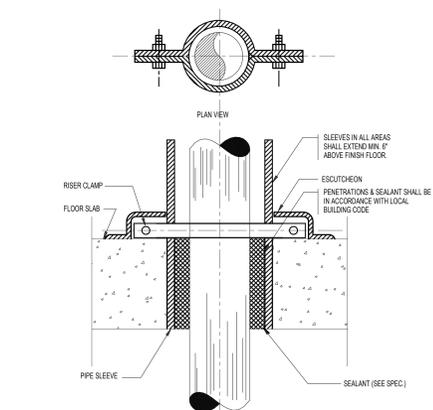
8 TYPICAL FIRE RATED PIPE SLAB PENETRATION
 SCALE: NONE



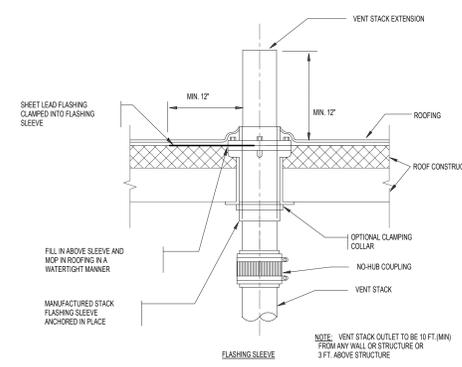
7 PIPE PENETRATION WITHOUT INSULATION
 SCALE: NONE



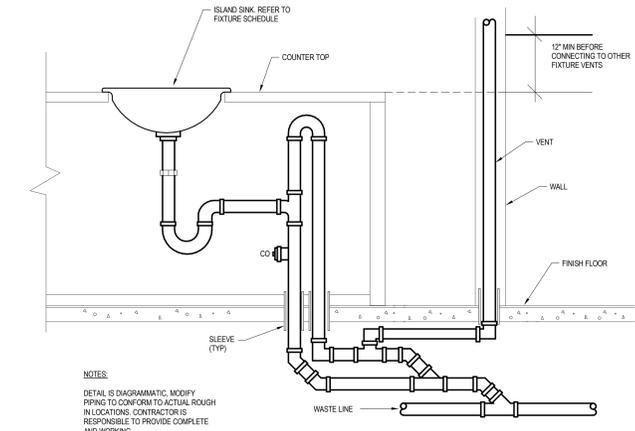
6 PIPE SLEEVE THRU INTERIOR WALL
 SCALE: NONE



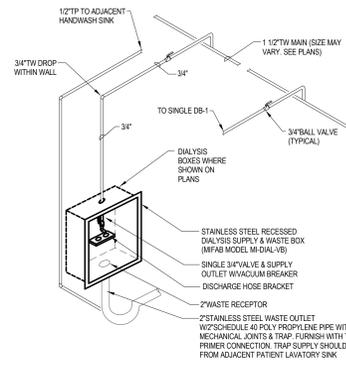
5 PIPE SLEEVE THRU EXPOSED FLOOR SLAB
 SCALE: NONE



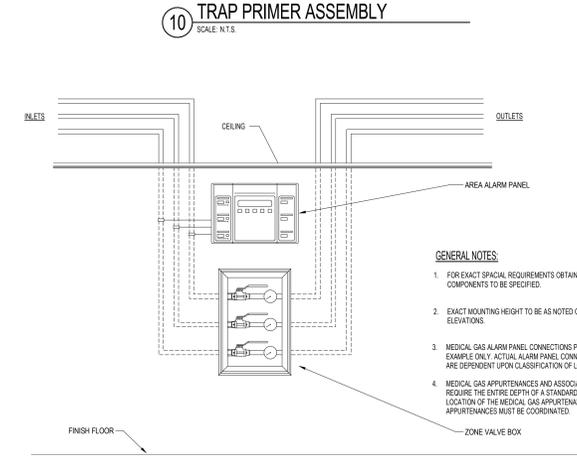
12 VENT THRU THE ROOF (VTR)
 SCALE: N.T.S.



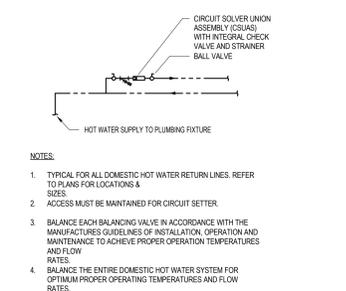
11 ISLAND SINK BOW VENT PIPING
 SCALE: N.T.S.



14 DIALYSIS SUPPLY & WASTE BOX
 SCALE: N.T.S.



10 TRAP PRIMER ASSEMBLY
 SCALE: N.T.S.



13 CIRCUIT SOLVER ASSEMBLY
 SCALE: NONE

9 ELECTRIC MEDICAL GAS CONTROL VALVES & ALARM PANEL
 SCALE: NONE

- GENERAL NOTES:**
- FOR EXACT SPECIAL REQUIREMENTS OBTAIN PRODUCT CUTS OF COMPONENTS TO BE SPECIFIED.
 - EXACT MOUNTING HEIGHT TO BE AS NOTED ON THE ARCHITECTURAL ELEVATIONS.
 - MEDICAL GAS ALARM PANEL CONNECTIONS POINTS ARE FOR EXAMPLE ONLY. ACTUAL ALARM PANEL CONNECTIONS POINTS ARE DEPENDENT UPON CLASSIFICATION OF LOCATION OR AREA.
 - MEDICAL GAS APPURTENANCES AND ASSOCIATED PIPING REQUIRE THE ENTIRE DEPTH OF A STANDARD 3/8" STD. THE LOCATION OF THE MEDICAL GAS APPURTENANCES AND ELECTRICAL APPURTENANCES MUST BE COORDINATED.

- NOTES:**
- TYPICAL FOR ALL DOMESTIC HOT WATER RETURN LINES. REFER TO PLANS FOR LOCATIONS & SIZES.
 - ACCESS MUST BE MAINTAINED FOR CIRCUIT SETTER.
 - BALANCE EACH BALANCING VALVE IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES OF INSTALLATION, OPERATION AND MAINTENANCE TO ACHIEVE PROPER OPERATION TEMPERATURES AND FLOW RATES.
 - BALANCE THE ENTIRE DOMESTIC HOT WATER SYSTEM FOR OPTIMUM PROPER OPERATING TEMPERATURES AND FLOW RATES.