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ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE I	FROM DEFE
OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION	OF ASTM, AN
OR OTHER ACCEPTABLE STANDARDS.	
THESE DRAWINGS ARE DIACRAMMATIC AND INDICATE CENERAL ARE	ANCEMENT

2.	THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF
	WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR
	HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL
	COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF
	THE CONTRACT.

Plumbing Notes:

REFLECTED ON HIS SUBMITTALS.

3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER	TRADES.
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4.	ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE
	(1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND
	ENGINEER.

5.	ALL	CUTTING,	PATCHING,	FIRE-STOPPING,	AND	SURFACE	RESTORATION	11
	CON	NECTION WI	TH THIS TRAD	E SHALL BE COMPL	ETED	BY THIS CON	ITRACTOR.	

6.	A MINIMUM	OF F	OUR (4)	COPIES	S OF	SHOP	DRAWINGS	SHALL	BES	SUBMITTE	ED TO	THE
	ENGINEER	FOR	APPRO\	VAL P	RIOR	TO	ORDERING	AND	INSTA	ALLATION	OF	THE
	FOLIPMENT	AND/	OR MATE	RIALS	RY S	SURMI	TTING SHOP	DRAW	INGS	THE COL	VTRAC	CTOF

REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE

7.	THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSAR
	DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVA
	REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.

RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEE	S OF ALL WORK
ASSOCIATED WITH THE LOCAL GAS UTILITY COMPANY. ALL WORK IN	VOLVING THE GAS
UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THE AND GUIDELINES.	EIR REGULATIONS

_	
8.	ALL DOMESTIC COLD AND HOT WATER PIPING AND FITTINGS ARE TO BE INSULATED
	WITH 1" THICK RIGID ONE-PIECE MOLDED SECTIONAL FIBERGLASS PIPE COVERING
	WITH UNIVERSAL JACKET. ALL JOINTS ARE TO BE COMPLETELY SEALED A MINIMUM OF
	6" BEYOND JOINT ENDS.

9.	ALL	PIPING	SHALL	BE	PRO	PERLY	SUPPOF	RTED	AND	ROUTED	PARAL	LEL	OR
	PERF	PENDICUL	AR TO B	UILD	ING W	ALLS.	THE CONT	TRAC ⁻	TOR SH	IALL FURNI	SH AND	INST	ALL
	ALL	SUPPOR	T HANG	ERS	AND	MISCE	ELLANEOU	IS ME	ETALS	REQUIRED	FOR	PRO	PER
	INST	ALLATION	OF WOR	RK.									

10. PIPING SYSTEM MATERIALS ARE TO BE AS FOLLOWS:

10	0.1.	GAS DISTRIBUTION - SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON
		THREADED FITTINGS & THREAD JOINT COMPOUND FOR PIPING UP THRU 4"
		DIAMETER. JOINTS MUST BE WELDED FOR PIPING OVER 4" DIAMETER. WHER
		PIPING IS TO BE INSTALLED BELOW GRADE, PIPING AND FITTINGS ARE TO BE
		COATED WITH A CORROSION-RESISTENT MATERIAL.

11. ALL EXPOSED	PIPING, FITTING	SS, TRAPS,	ESCUTCHEONS,	VALVES,	ETC. SHALL	BE
CHROME PLATE	ED.					

13. INSTALL A CLEANOUT AT THE BASE OF EACH SOIL STACK, AT EACH CHANGE IN DIRECTION, AT INTERVALS NOT OVER 50 FEET AND ELSEWHERE AS SHOWN ON DRAWINGS OR REQUIRED BY CODE.

14. PROVIDE EXPOSED PIPING WITH CHROME PLATED CAST BRASS ESCUTCHEON WITH SET SCREW WHERE PENETRATING FLOORS, CEILINGS, WALLS OR PARTITIONS.

15. TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND/OR AS SPECIFIED. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS

15.1. WATER & GAS PIPING TO BE AIR-PRESSURE TESTED TO 1-1/2 TIMES MAXIMUM WORKING PRESSURE.

15.2. DRAINAGE, WASTE & VENT PIPING TO BE TESTED BY FILLING THE SYSTEM WITH WATER TO 10-FEET ABOVE HIGHEST POINT.

16. SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.

17. INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.

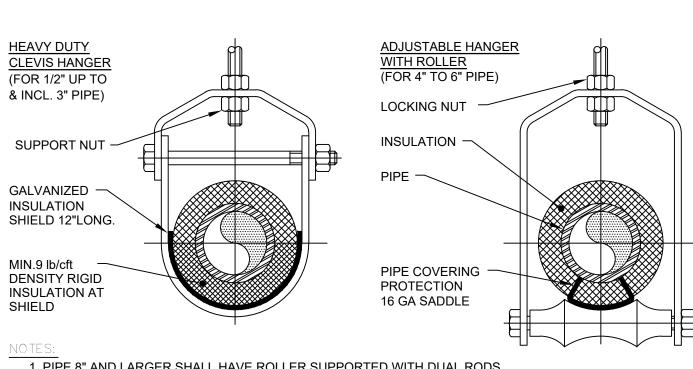
18. INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING

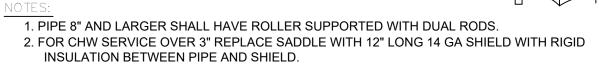
19. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.

20. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.

REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

21. CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY





REMARKS

INSTALL PER MANUFACTURER'S

INSTALL PER MANUFACTURER'S

PROVIDE AS COMPLETE SYSTEM W/ ALL

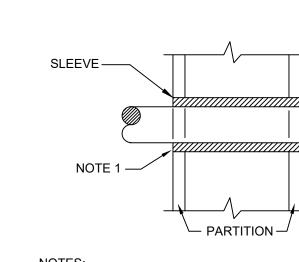
REQUIREMENTS

REQUIREMENTS

CONTROLS

PIPE Ø (IN.)	MAX. S H	MIN. ROD SIZE		
	STEEL PIPE	COPPER PIPE	CPVC	(IN.)
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8





1. AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATION SO AS TO FILL CAVITY. 2. DUCT AND PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE THE CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.

Plumbing Fixture Schedule

CONTINUOUS SLOPE

REMOTE ALARM

MANUFACTURER/MODEL

(OR ACCEPTABLE EQUAL)

12" WIDE PRE-SLOPED HDPE TRENCH DRAIN TYPICAL OF ZURN MODEL #Z882;

FURNISH WITH FIBERGLASS CLASS-F GRATE; ASSEMBLE SECTIONS TO HAVE

12-1/2" SQUARE TOP HEAVY DUTY DRAIN W/ 4" PIPE CONNECTION TYPICAL OF

CONTROL; MODEL ELV250; 1/3 HP, 115V, 1\(\phi\); PROVIDE W/ CONTROL PANEL &

SUBMERSIBLE PUMP TYPICAL OF LIBERTY PUMPS ELV-SERIES W/ OILTECTOR INSTALL PUMPS IN VEHICLE LIFT PIT;

ZURN MODEL #Z610; FURNISH WITH TRAP SEAL DEVICE

ELECTRONIC

CONTROL

WATER

SUPPLY

FIXTURE

UNITS

DRAINAGE

FIXTURE

UNITS

ADA

(Y/N)

PIPING CONNECTION

H.W. C.W. WASTE VENT

1-1/2

FIXTURE

MARK

P-2

P-3

DESCRIPTION

TRENCH DRAIN

FLOOR DRAIN

SUMP PUMP

PIPE SLEEVE EXTEND 1"

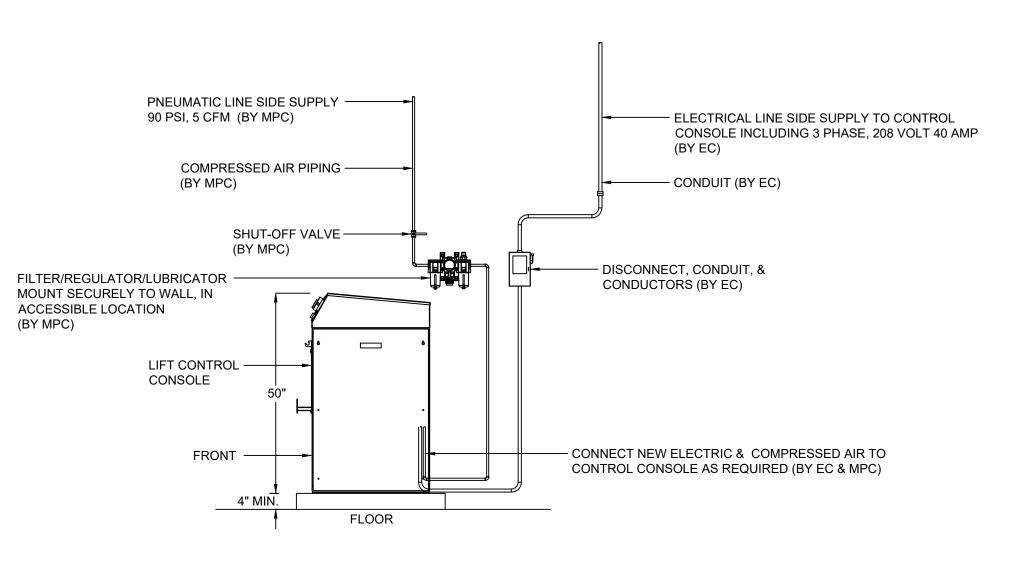
BEYOND WALL FACE

CONCRETE-

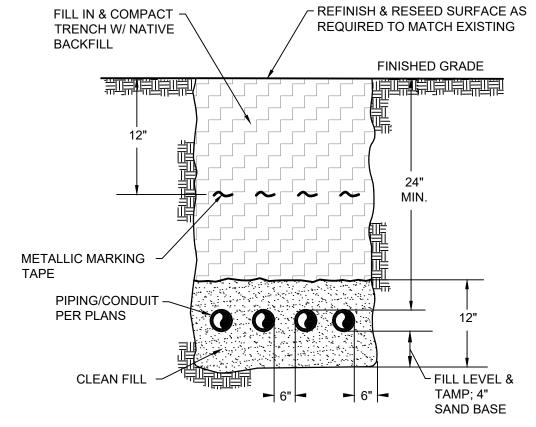
Exterior Wall Pipe Penetrations

OF LINK SEAL









Plumbing Legend:

DOMESTIC COLD WATER SUPPLY

——— 110 °F DOMESTIC HOT WATER SUPPLY

HOT WATER RETURN

PLUMBING VENT

140 °F DOMESTIC HOT WATER SUPPLY

SANITARY SEWER, ABOVE GRADE

SANITARY SEWER, BELOW GRADE

GREASE WASTE, BELOW GRADE

STORM WATER, ABOVE GRADE

STORM WATER, BELOW GRADE

DIRECTION OF PIPE SLOPE (DOWN)

CONCENTRIC REDUCER OR INCREASER

POINT OF CONNECTION BETWEEN NEW

NATURAL GAS PIPING

ECCENTRIC REDUCER

SIDE CONNECTION

CAPPED OUTLET

PIPE UP

PIPE DOWN

STRAINER

HOSE BIB

GATE VALVE

GLOBE VALVE

CHECK VALVE

FULL PORT BALL VALVE

CLEANOUT W/ DECK PLATE

PRESSURE GAUGE

WALL CLEANOUT

CLEANOUT TO GRADE

PLUMBING FIXTURE MARK

BUTTERFLY VALVE

CLEANOUT

W.C.O.

C.O.T.G.

(P-X)

SOLENOID VALVE

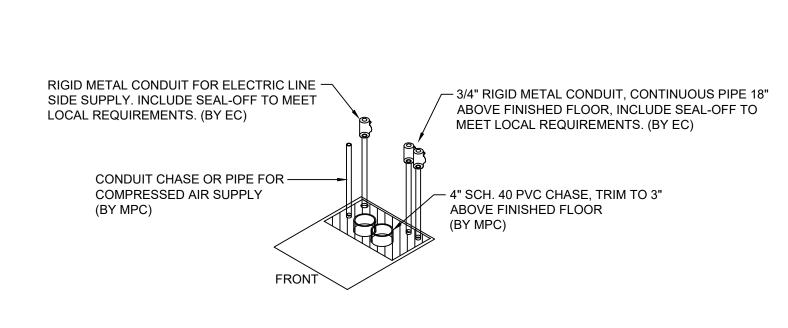
RISE OR DROP IN PIPE

AND EXISTING WORK

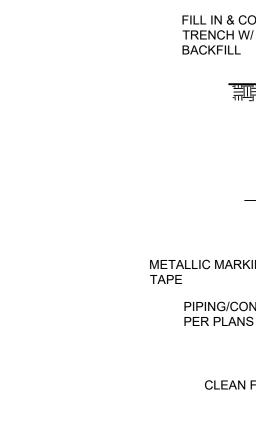
TOP CONNECTION, 45° OR 90°

BOTTOM CONNECTION, 45° OR 90°

\P101 / N.T.S.



Bus Lift Control Console Isometric Detail P101 N.T.S.



Typical Shared Trench Detail



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Δ

DESCRIPTION Checked By:

Proj. #: 62-08-03-04-5-002-011

197-2201.01

> PLUMBING NOTES, LEGEND, SCHEDULE & **DETAILS**