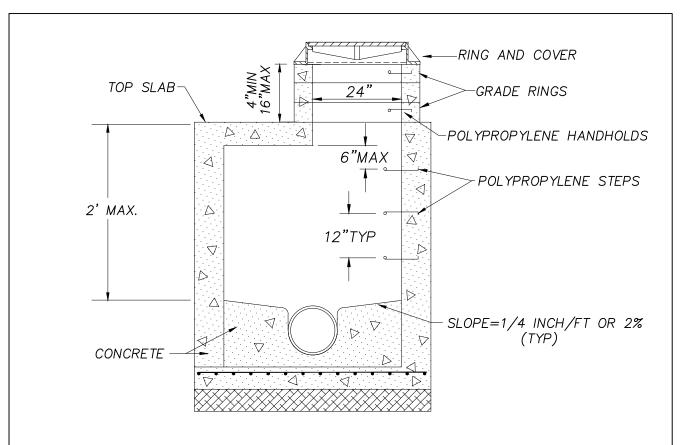


- 1. THIS DETAIL OUTLINES THE CITY OF OLYMPIA MODIFICATIONS TO THE WSDOT TYPE 1-48 INCH, 54 INCH AND 60 INCH MANHOLE.
- 2. PRECAST MANHOLES SHALL MEET THE REQUIREMENTS OF ASTM C478. JOINTS SHALL BE RUBBER GASKETED, CONFORMING TO ASTM C443 AND SHALL BE GROUTED FROM THE INSIDE. LIFT HOLES SHALL BE GROUTED FROM THE OUTSIDE AND INSIDE OF THE MANHOLE.
- 3. THE FIRST STEP OR HANDHOLD SHALL BE A MAXIMUM OF 12 INCHES FROM THE TOP OF THE COVER.
- 4. CONNECTION TO MANHOLE SHALL BE MADE BY KOR-N-SEAL FITTING ONLY. KOR-N-SEAL SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS. KNOCKOUTS WILL NOT BE ALLOWED.
- 5. SEE OLYMPIA STD. PLAN 7-3 FOR MANHOLE COLLAR INSTALLATION.
- 6. A EAST JORDAN WATERTITE CASTING SHALL BE INSTALLED IN ANY MANHOLE SUBJECT TO FLOODING.

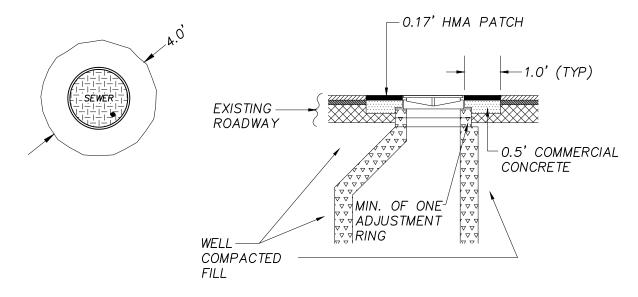
APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD.	PLAN	NO.
0.577.57.007.550	2/26/2013	TYPE 1 MANHOLE		7-1	
CITY ENGINEER	, ,				



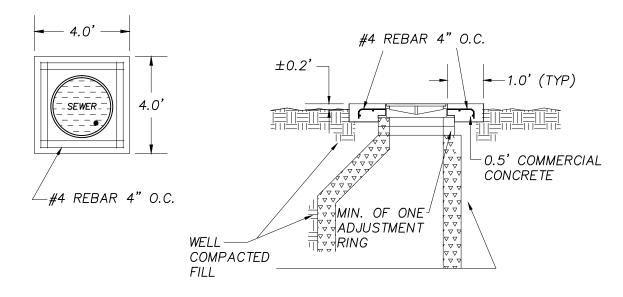
- 1. THIS DETAIL OUTLINES THE CITY OF OLYMPIA MODIFICATIONS TO THE WSDOT TYPE 3 MANHOLE FOR SHALLOW INSTALLATIONS.
- 2. PRECAST MANHOLES SHALL MEET THE REQUIREMENTS OF ASTM C478. JOINTS SHALL BE RUBBER GASKETED, CONFORMING TO ASTM C443 AND SHALL BE GROUTED FROM THE INSIDE. LIFT HOLES SHALL BE GROUTED FROM THE OUTSIDE AND INSIDE OF THE MANHOLE.
- 3. THE FIRST STEP OR HANDHOLD SHALL BE A MAXIMUM OF 12 INCHES FROM THE TOP OF THE COVER.
- 4. CONNECTION TO MANHOLE SHALL BE MADE BY KOR-N-SEAL FITTING ONLY. KOR-N-SEAL SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS. KNOCKOUTS WILL NOT BE ALLOWED.
- 5. SEE OLYMPIA STD. PLAN 7-3 FOR MANHOLE COLLAR INSTALLATION.
- 6. A EAST JORDAN WATERTITE CASTING SHALL BE INSTALLED IN ANY MANHOLE SUBJECT TO FLOODING.

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. PLAN NO.
	2/26/2013	SHALLOW MANHOLE	7–2
CITY ENGINEER] _, ,		. –

MANHOLE IN PAVED AREA

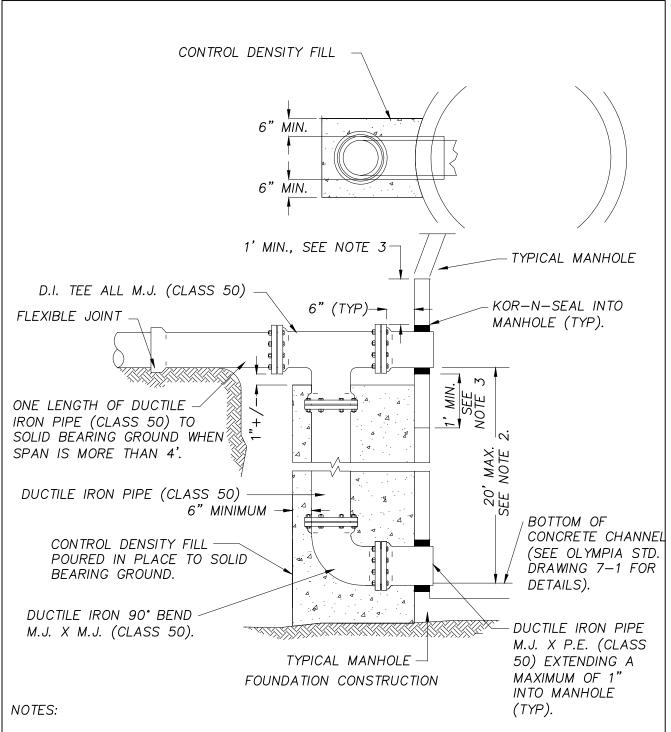


MANHOLE OUTSIDE PAVED AREA



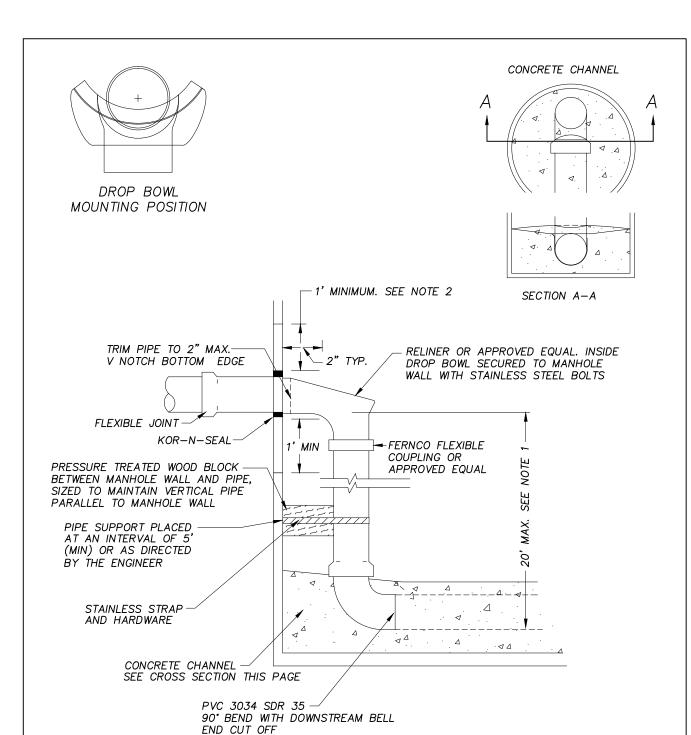
- 1. ON MANHOLE OUTSIDE ASPHALT, ADD REINFORCING STEEL AS SHOWN ABOVE. DEFORMED BAR TO MEET ASTM A615 GRADE 60, FY=60,000 P.S.I.
- 2. OPENING IN LID FOR USE OF MANHOLE HOOK IS REQUIRED.

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. PLAN NO.
	2/27/08	MANHOLE COLLAR	7–3
CITY ENGINEER] _, _, , , ,		, .



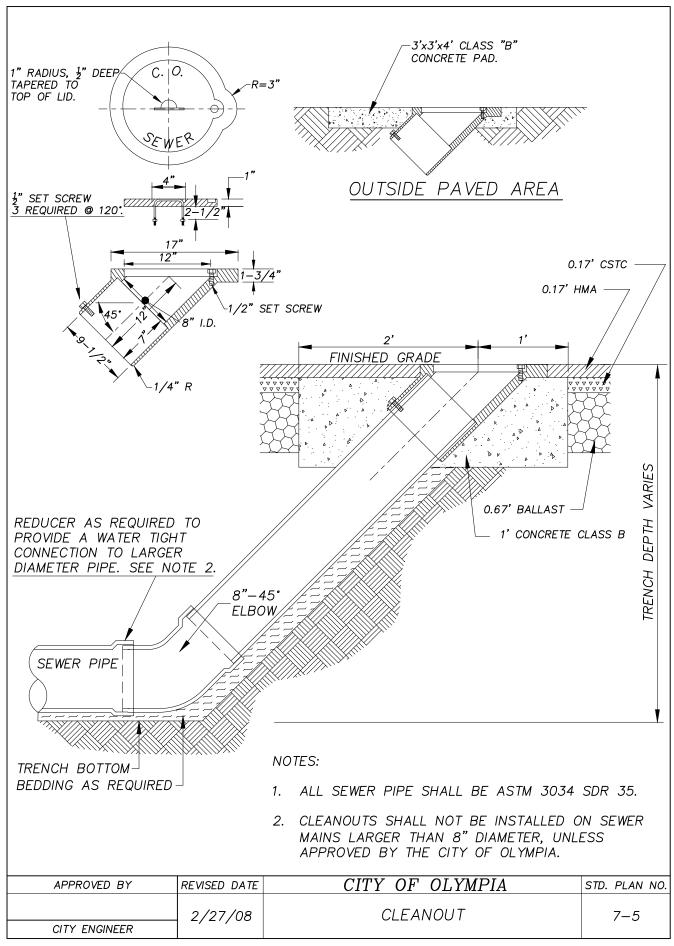
- 1. THE INTERIOR OF ALL DUCTILE IRON SHALL BE COATED WITH EPOXY, SEWPERCOAT OR TNEMEC 66.
- 2. DEPTHS OVER 20' MAY BE ALLOWED IF MEGA-LUG JOINTS ARE USED.
- 3. MAINTAIN A MINIMUM OF 1' BETWEEN MANHOLE JOINTS AND TEE.

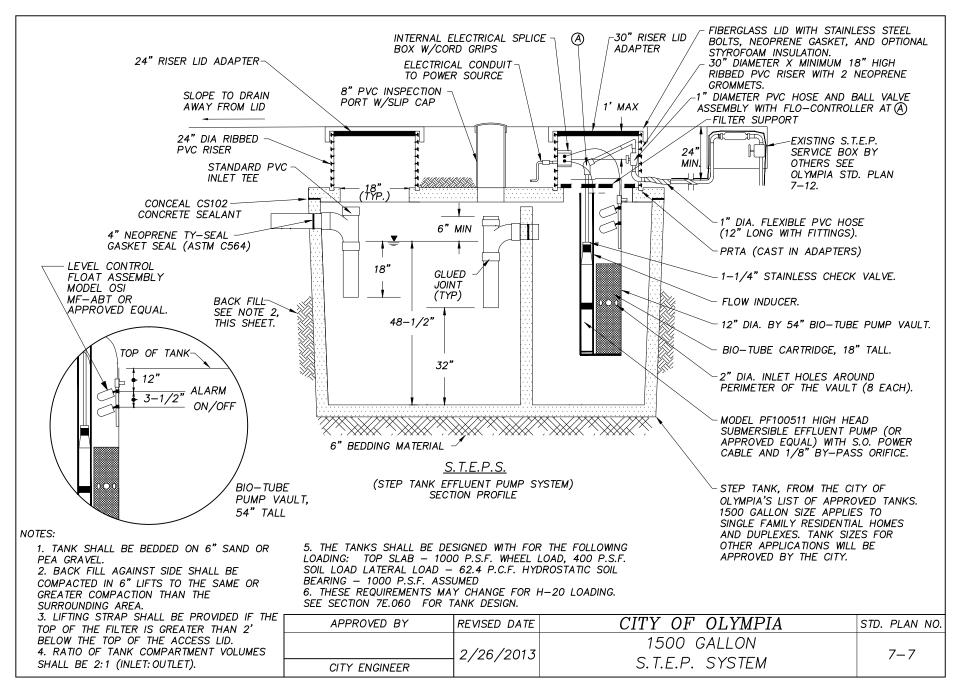
APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. PLAN NO.
CITY ENGINEER	12-27-99	OUTSIDE DROP CONNECTION	7–4

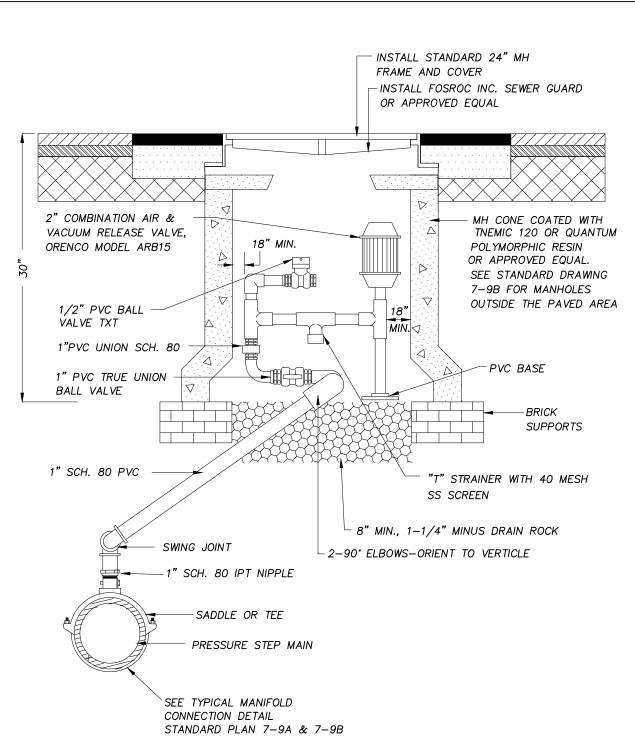


- 1. DEPTHS OVER 20 FEET MAY BE ALLOWED WHEN PROPER SUPPORT IS PROVIDED AS APPROVED BY THE CITY ENGINEER.
- 2. MAINTAIN A MINIMUM SEPARATION OF 1 FOOT BETWEEN MANHOLE JOINTS AND PIPE PENETRATIONS.
- 3. INSIDE DROP IS ONLY ALLOWED WHEN APPROVED BY THE CITY ENGINEER.

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. PLAN NO.
	2/26/2013	INSIDE DROP CONNECTION	7–4A
CITY ENGINEER			, ,,,

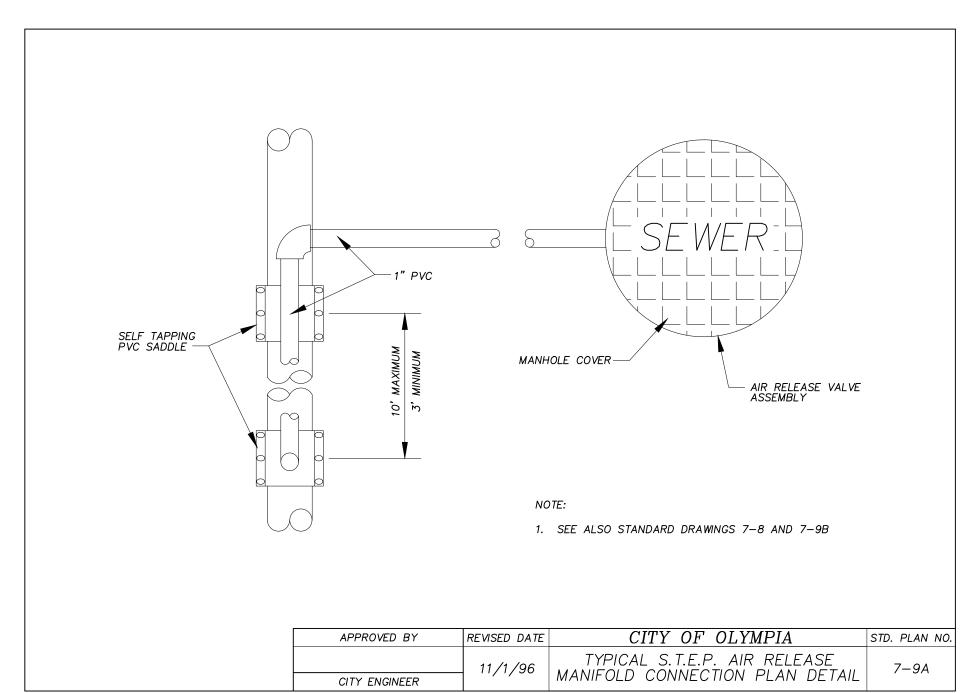


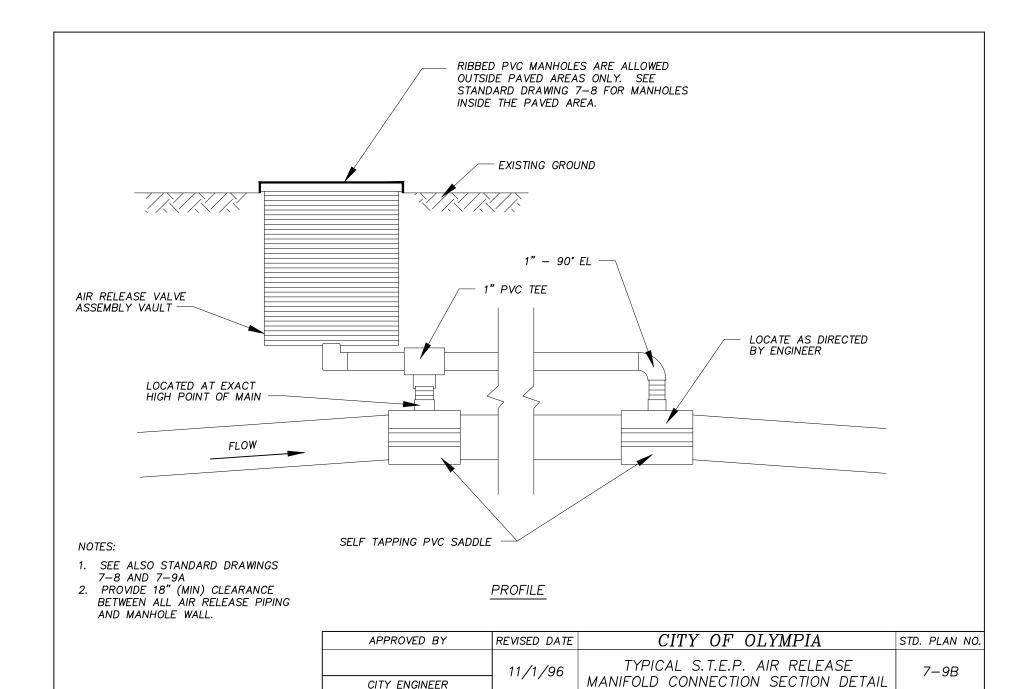


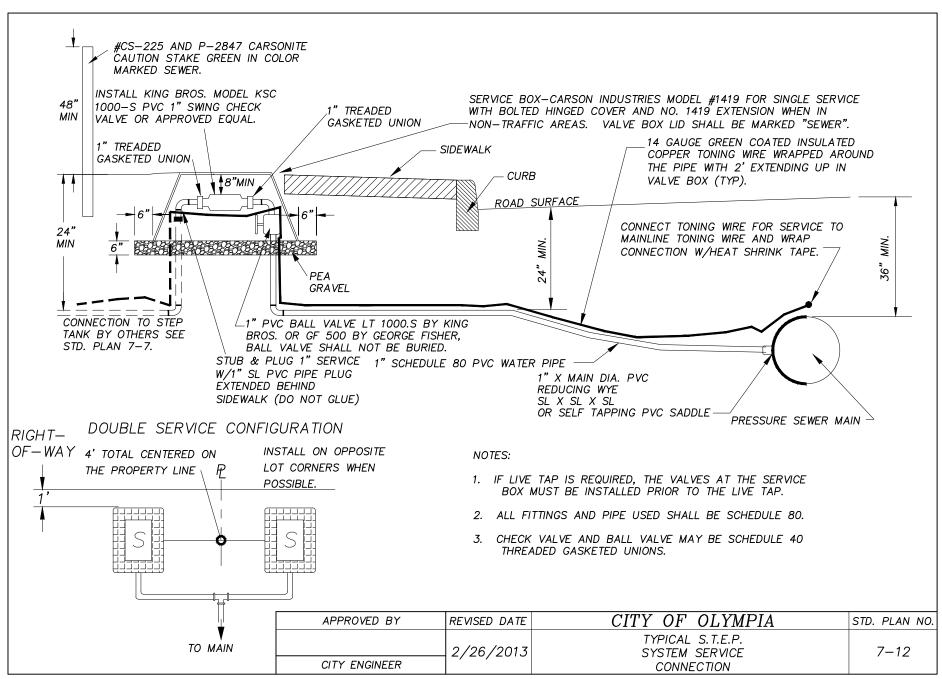


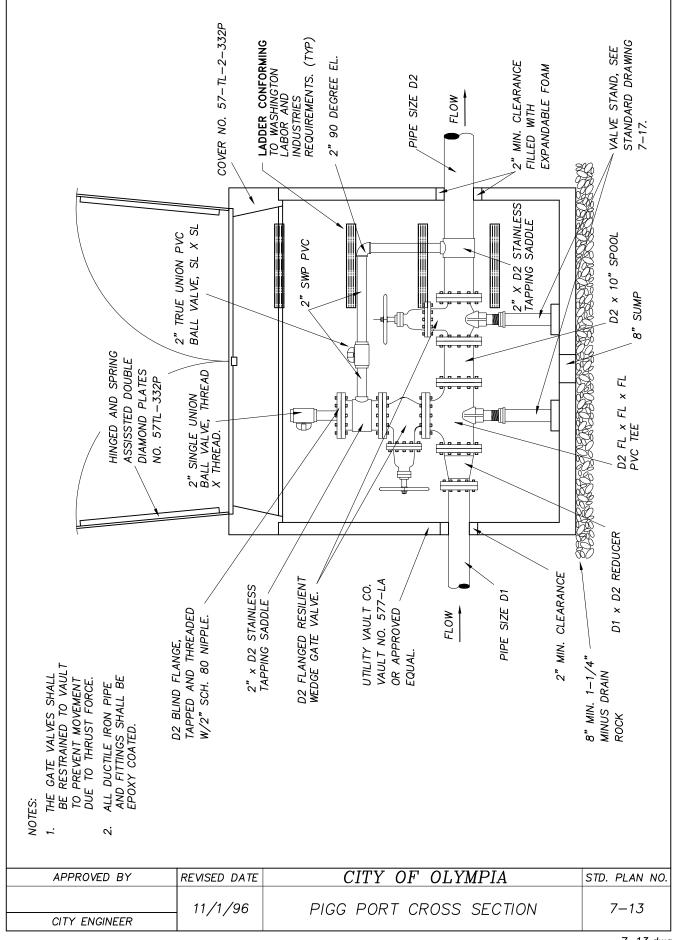
- 1. LOCATE AIR RELEASE ASSEMBLY IN SIDEWALK WHEN POSSIBLE.
- 2. SEE ALSO STANDARD DRAWINGS 7-9A AND 7-9B
- 3. AIR RELEASE ASSEMBLY SHALL BE ORENCO MODEL ARA2

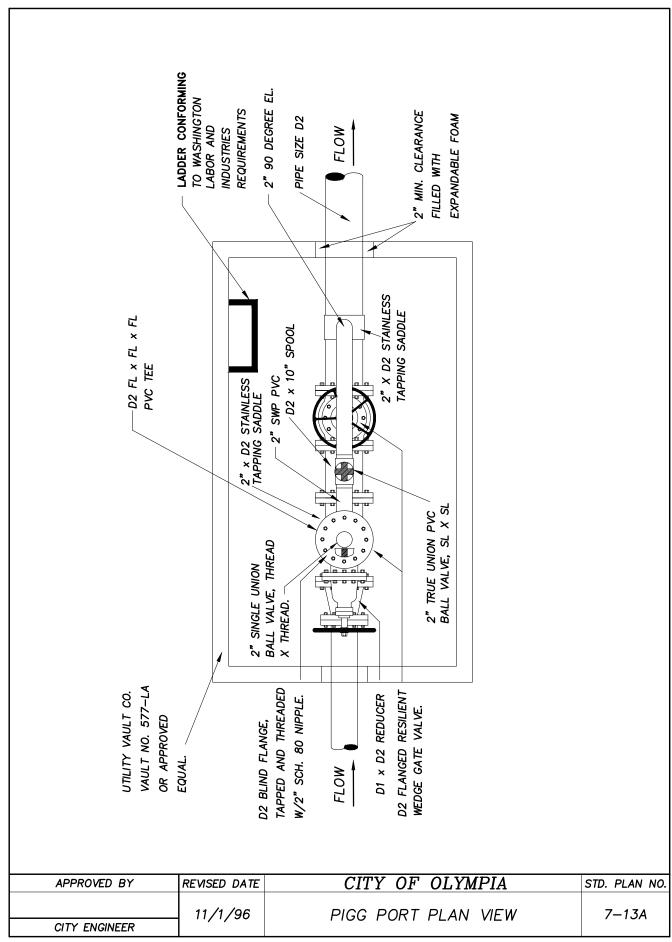
APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. PLAN NO.
	2/26/2013	S.T.E.P. SYSTEM	7–8
CITY ENGINEER	_, _, _, _,	AIR RELEASE ASSEMBLY	, .

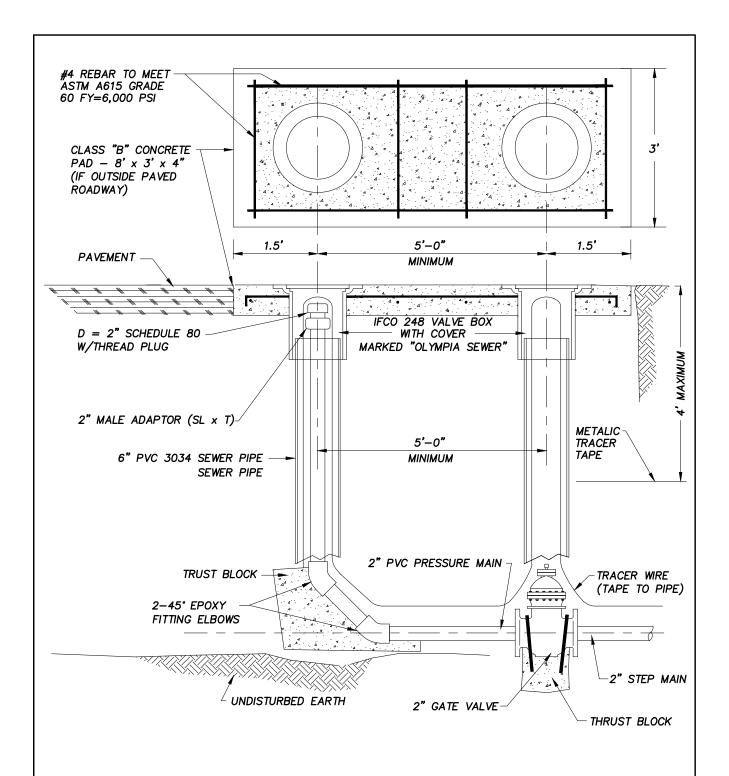






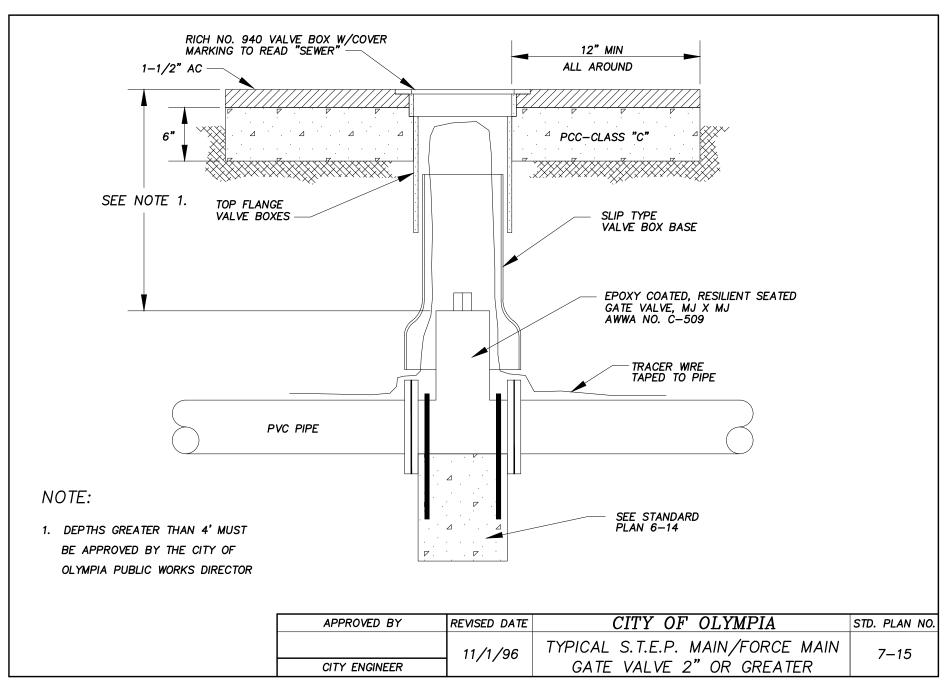


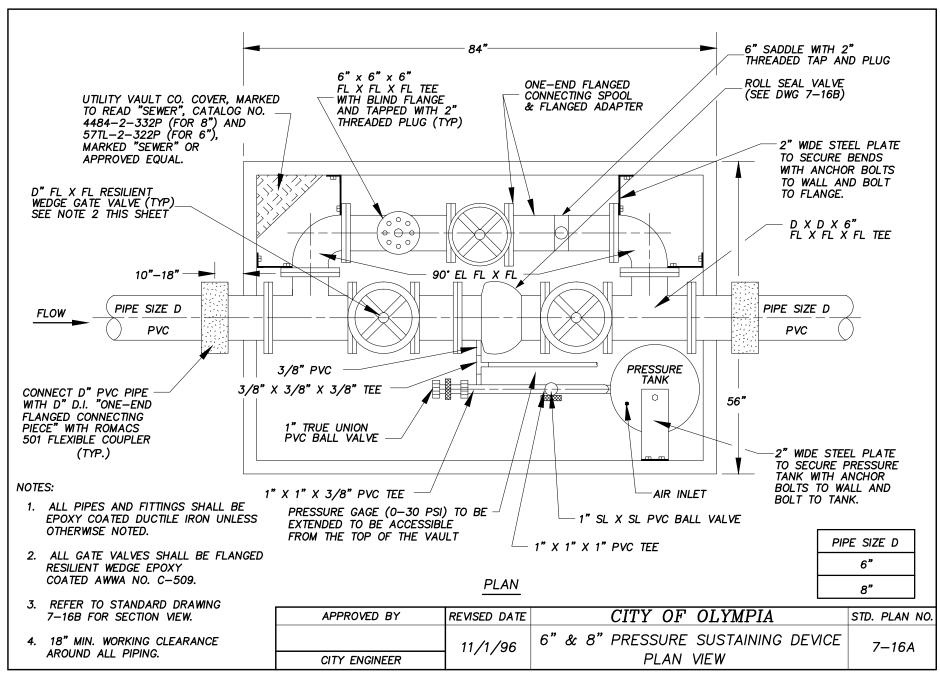


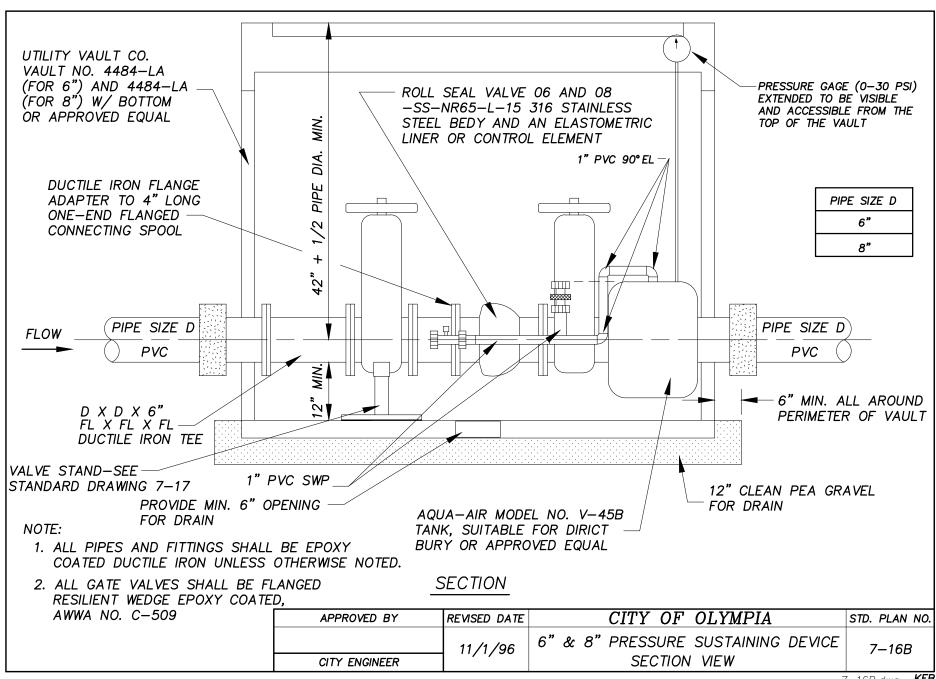


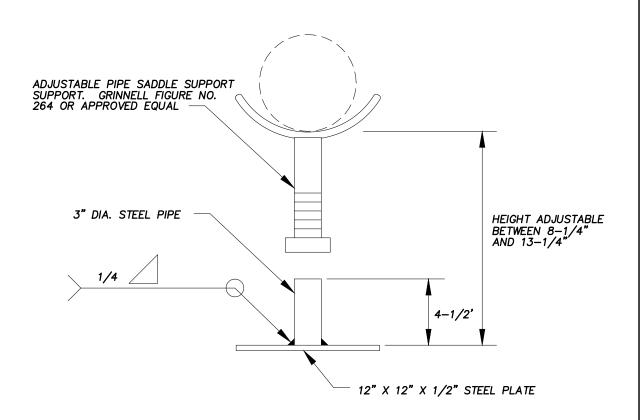
- 1. A PIG PORT DETAIL SHALL BE SUBMITTED TO THE CITY FOR APPROVAL BY THE DIRECTOR OF PUBLIC WORKS WHEN USED WITH STEP MAINS LARGER THAN 2".
- 2. FOR STEP MAINS LARGER THAN 2", INSTALL BLIND FLANGE WITH A 2" TAP AND PLUG.

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. PLAN NO.
CITY ENGINEER	11/1/96	TERMINUS PIGG LAUNCH PORT	7–14



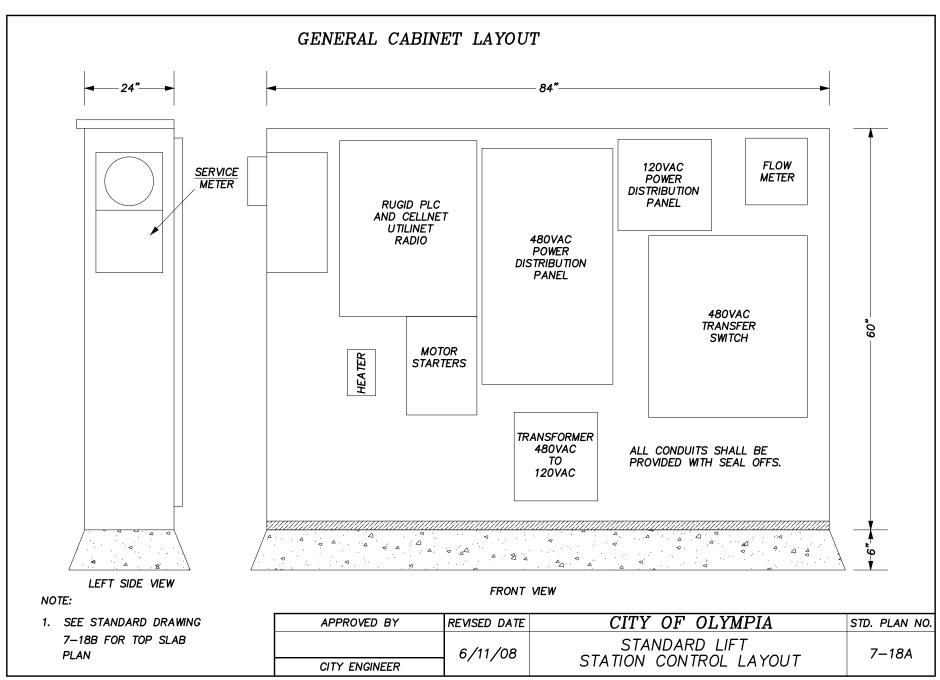


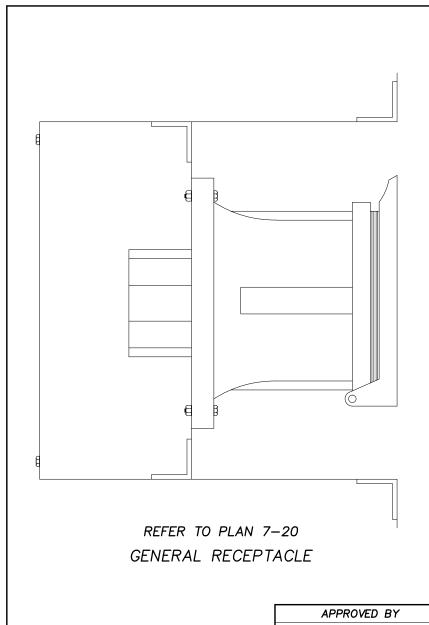




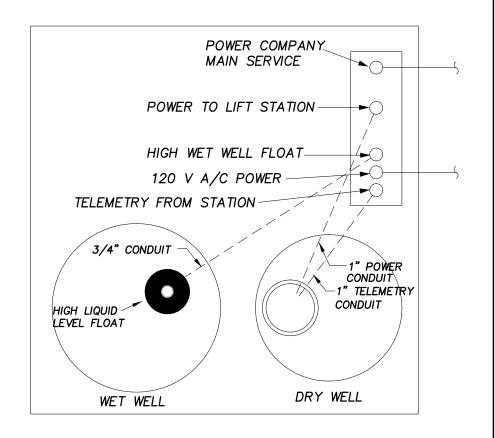
1. AFTER FABRICATION, THE VALVE STAND BASE SHALL BE CLEANED, PRIMERED WITH FULLER O'BRIEN 621-04 BLOX-RUST ALKYD METAL PRIMER OR APPROVED EQUAL AND THEN PAINTED WITH FULLER O'BRIEN 612-XX HEAVY DUTY ALKYD ENAMEL OR APPROVED EQUAL.

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. PLAN NO.
	11/1/96	TYPICAL VALVE STAND	7–17
CITY ENGINEER	' '	· · · · · · · · · · · · · · · · · · ·	



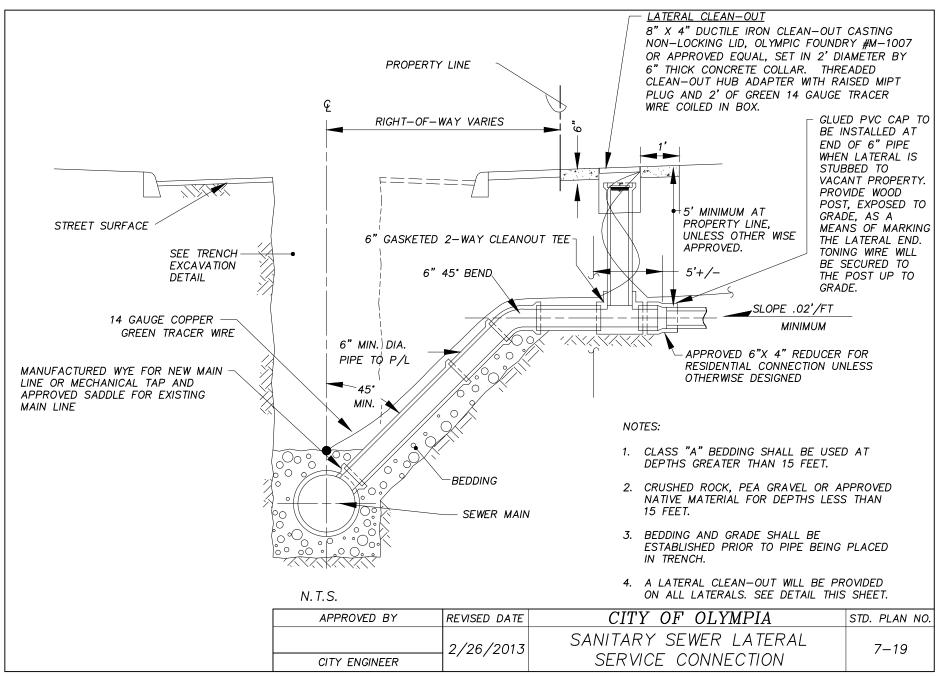


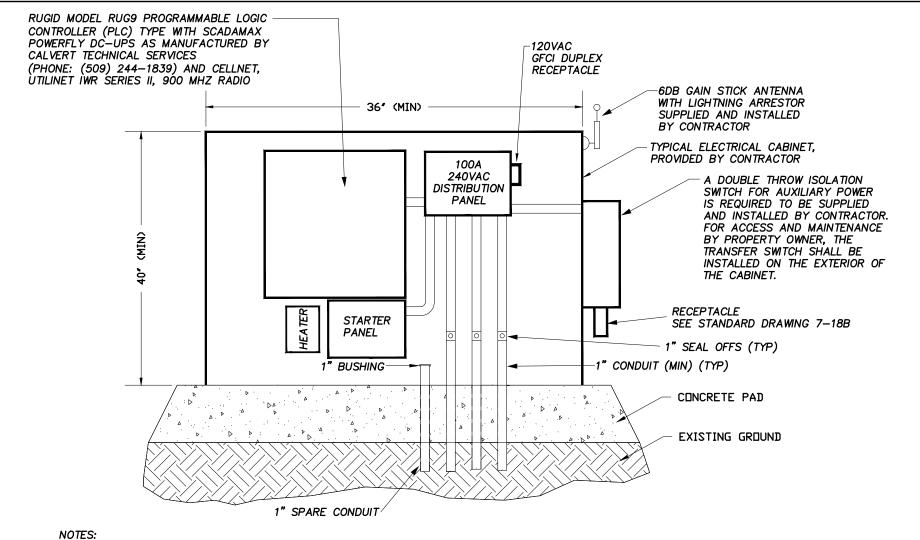
NOTE: OTHER LAYOUTS MAY BE APPROVED TO MEET SPECIFIC NEEDS PROVIDING ALL ELEMENTS ARE PROVIDED



TOP SLAB PLAN
SEE PLAN 7-18A FOR CONDUIT SIZES

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. PLAN NO.	
CITY ENGINEER	6/11/08	STANDARD LIFT STATION LAYOUT	7–18B	





 THE CONTRACTOR SHALL CONTACT THE PUMP STATIONS SUPERVISOR, CITY OF OLYMPIA DEPARTMENT OF PUBLIC WORKS, FOR COMPLETE ORDERING SPECIFICATIONS FOR PUMP CONTROL SYSTEM AND TELEMETRY.

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. PLAN NO.
	6/10/08	COMMERCIAL / MULTI-FAMILY STEP SYSTEM	7–20
CITY ENGINEER	0,,0,00	ELECTRICAL CABINET LAYOUT	, 25

