

GENERAL NOTES (SANITARY SEWER MAIN INSTALLATION)

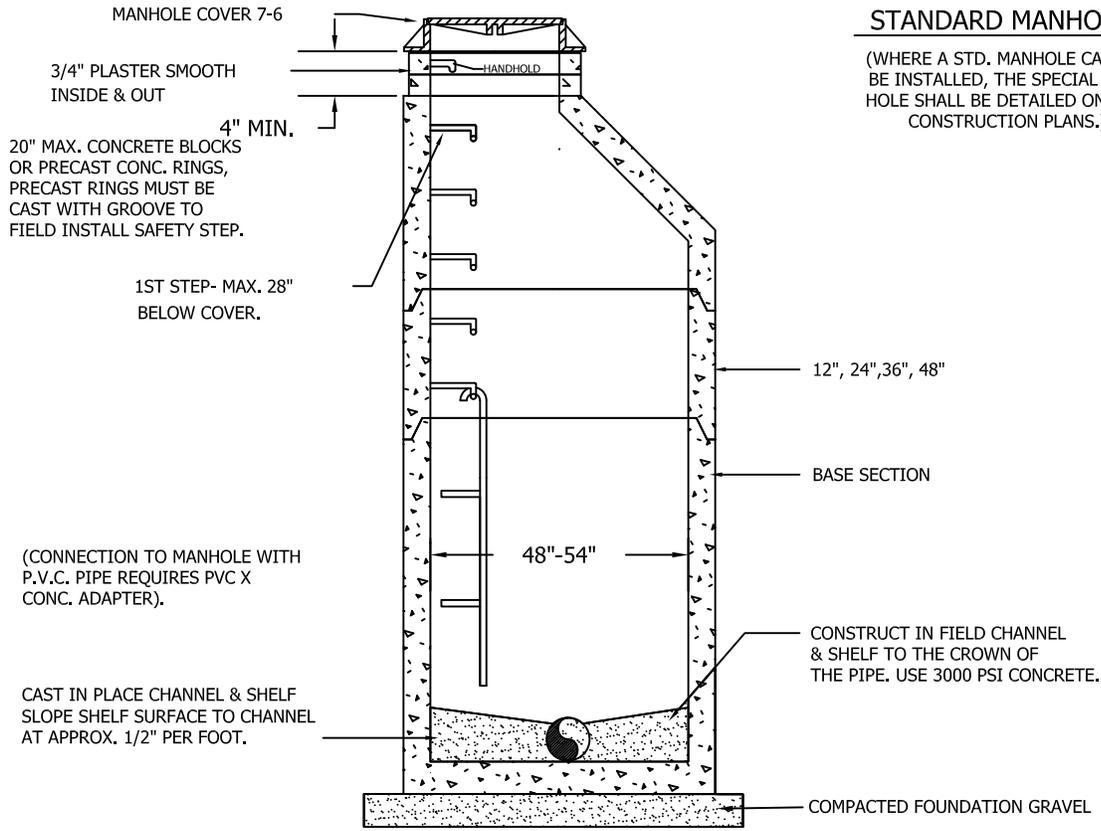
1. All workmanship and materials shall be in accordance with City of Blaine standards and the most current copy of the State of Washington Standard Specifications for Road, Bridge and Municipal Construction (WSDOT/APWA).
2. City of Blaine datum shall be used for all vertical control. A list of benchmarks is available at the Public Works Department.
3. All approvals and permits required by the City of Blaine shall be obtained by the contractor prior to the start of construction,
4. If construction is to take place in the County right-of-way, the contractor shall notify the County and obtain all the required approvals and permits.
5. A preconstruction meeting shall be held with the City of Blaine Construction Inspector prior to the start of construction.
6. The City of Blaine Construction Inspector shall be notified a minimum of 48 hours in advance of a tap connection to an existing main. The inspector shall be present at the time of the tap.
7. The contractor shall be fully responsible for the location and protection of all existing utilities. The contractor shall verify all utility locations prior to construction by calling the Underground Locate Line at 1-800-424-5555 a minimum of 48 hours prior to any excavation.
8. Gravity sewer main shall be PVC, ASTM D 3034 SDR 35 or ASTM F789 with joints and rubber gaskets conforming to ASRM D 3212 and ASTM F477 unless otherwise specified on the plans.
9. Precast manholes shall meet the requirements of ASTM C 478. Manholes shall be Type 1-48" manhole unless otherwise specified on the plans. Joints shall be rubber gasketed conforming to ASTM C 443 and shall be grouted from the inside. Lift holes shall be grouted from the outside and inside of the manhole. (See Note 1.)
10. Side sewer services shall be PVC, ASTM D 3034 SDR 35 with flexible gasketed joints. Side sewer connections shall be made by a tap to an existing main or a tee branch from a new main connected above the springline of the pipe.
11. All sewer mains shall be field staked for grades and alignment by a licensed engineering or surveying firm qualified to perform such work.
12. All plastic pipe and services shall be installed with continuous tracer tape installed 12" to 18" under the proposed finished subgrade. The marker shall be plastic non-biodegradable, metal core or backing marked sewer which can be detected by a standard metal detector. In addition, force mains, and curvilinear sewers shall be installed with 14 gauge coated copper wire wrapped around all plastic pipe, brought up and tied off at valve body. On a curvilinear sewer, the wire shall be brought up, bared and wrapped three times around the manhole ring. Tape shall be Terra Tape "D" or approved equal. The tape and wire shall be furnished by the contractor.
13. The City of Blaine's Public Works Department Inspector shall observe placement and installation of all sewer pipe bedding material, creation of the requisite pipe cradle in the bedding material, installation and connection of the pipes themselves, and backfill placement and compaction, to ensure compliance with City of Blaine Development Guideline and Public Works Standards No. 6.14. Contractor shall coordinate/schedule all observations.

					SANITARY SEWER CONSTRUCTION GENERAL NOTES		CITY OF BLAINE PUBLIC WORKS DEPARTMENT				
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					SCALE	NONE	SHEET	1	OF		2
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NO.	REVISION DESCRIPTION	PREP'D BY	DATE	APPROVED							

GENERAL NOTES (SANITARY SEWER MAIN INSTALLATION)

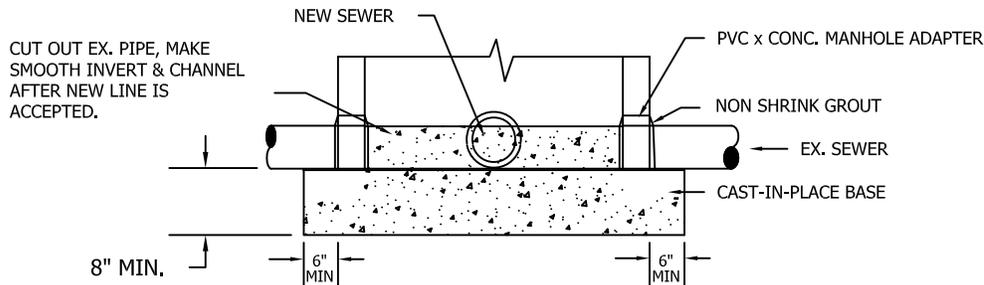
13. All side sewer locations shall be marked on the face of the curb with an embossed "S" 1/4" into concrete.
14. Marking Side Sewers:
 The location of all side sewers shall be marked with a 1 1/4" white PVC pipe ASTM 2241 SDR 2,1 200 PSI. It shall be placed vertically at the end of the service stub and rise two feet above the finished grade level. Both ends of the pipe shall have caps glued on, and the interior shall be kept clean for the purpose of future depth measurement.
15. Bedding of the sewer main and compaction of the backfill material shall be required in accordance with the above mentioned specification (See note 1).
16. A 3 foot square x 4 Inch thick asphalt or concrete pad shall be installed around all cleanouts that are not in a pavement area.
17. Temporary street patching shall be allowed for as approved by the City engineer. Temporary street patching shall be provided by placement and compaction of 1 inch maximum asphalt concrete cold mix. Contractor shall be responsible for maintenance as required.
18. Erosion control measures shall be taken by the contractor during construction to prevent infiltration of existing and proposed storm drainage facilities and roadways.
19. Provide traffic control plan(s) in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) as required.
20. It shall be the responsibility of the contractor to have a copy of these approved plans on construction site at all times.
21. Any changes to the design shall first be reviewed and approved by the project engineer and the City of Blaine.
22. All lines shall be cleaned and pressure tested prior to paving in conformance with the above referenced specifications. (See note 1). Testing of the sanitary sewer main may include TVing of the main by the contractor. Immediately prior to TVing, enough water shall be run down the line so it comes out the lower manhole. A copy of the video tape shall be submitted to the City of Blaine. Acceptance of the line will be made after the tape has been reviewed and approved by the inspector. Testing shall take place after all underground utilities are installed and compaction of the roadway subgrade is completed.
23. Blank
24. Prior to backfill all mains and appurtenances shall be inspected and approved by the City of Blaine Construction Inspector. Approval shall not relieve the contractor for correction of any deficiencies and/or failures as determined by subsequent testing and inspections. It shall be the contractor's responsibility to notify the City of Blaine for the required inspections.

					SNAITARY SEWER GENERAL CONSTRUCTION NOTES	CITY OF BLAINE PUBLIC WORKS DEPARTMENT				
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STANDARD MANHOLE

(WHERE A STD. MANHOLE CANNOT BE INSTALLED, THE SPECIAL MANHOLE SHALL BE DETAILED ON THE CONSTRUCTION PLANS.)



MANHOLE BASE - NEW MANHOLE ON EXISTING SEWER

GENERAL NOTES: (APPLY TO ALL MANHOLES)

1. PRECAST SECTIONS SHALL BE REINFORCED PER ASTM SPECS FOR CORRESPONDING SEWER PIPE.
2. GALVANIZED SAFETY STEPS, 1" MINIMUM. SEE DETAIL 7-5.
3. STEPS IN PRECAST BASE SECTION MAY BE CAST IN PLACE OR MOVABLE SAFETY LADDER GROUDED IN PLACE. SEE DETAIL 7-5.
4. ALL HOLES FOR PIPE SHALL BE BLOCKED OUT AT THE TIME OF CASTING OF THE SECTION.
5. ALL RUBBER GASKETED MANHOLES SHALL BE FURNISHED WITH RUBBER GASKET JOINT CONFORMING TO ASTM C443.
6. MANHOLES OVER 10' HIGH SHALL BE FURNISHED WITH 5" MIN. WALL.
7. MINIMUM 3% SLOPE ACROSS MANHOLE CHANNEL.
8. SEE STD. DETAIL NO 7-6 FOR MANHOLE FRAME AND COVER.
9. SEE STANDARD DETAIL NO. 7-2 FOR 72" MANHOLE.

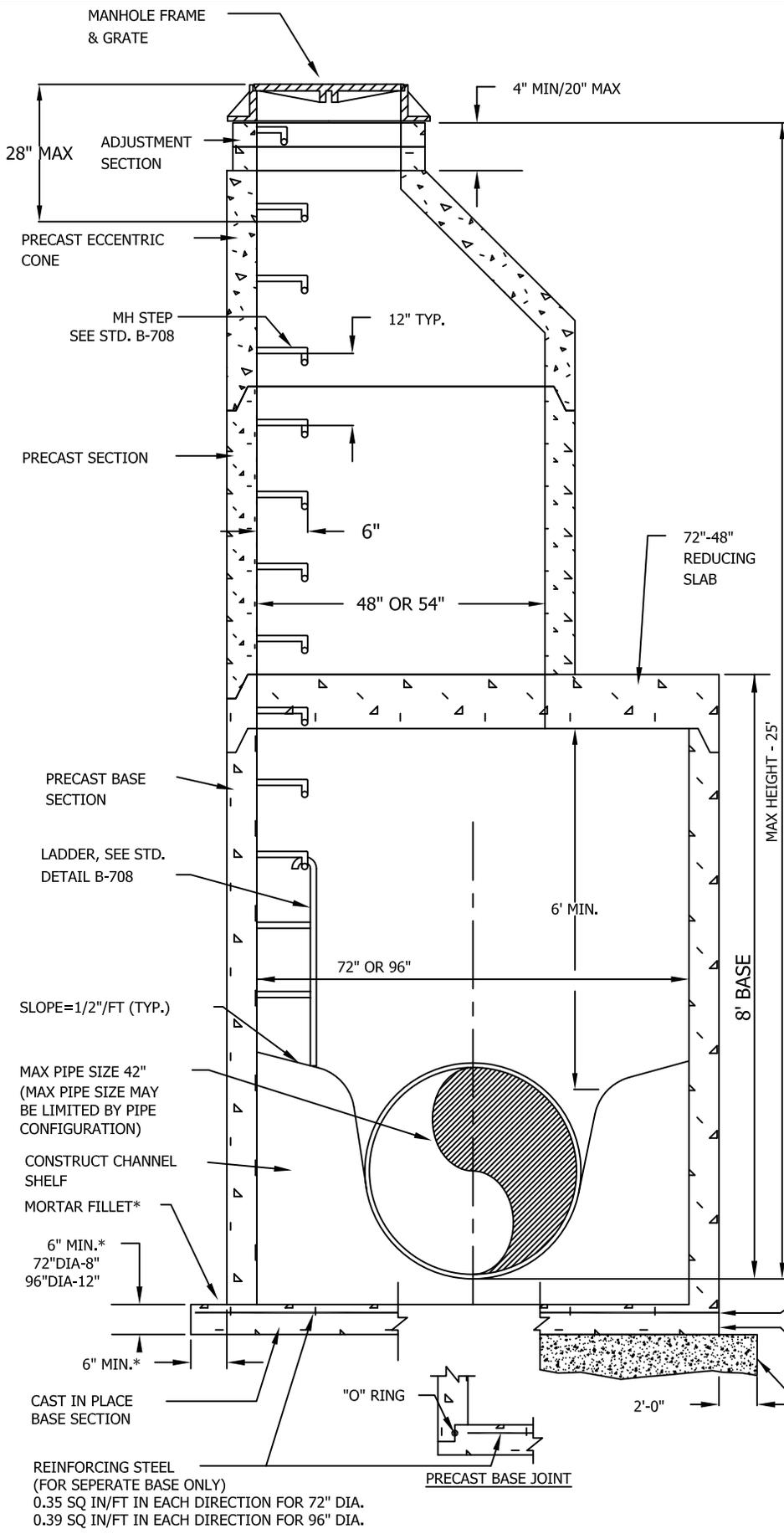
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**STANDARD MANHOLE/
NEW MANHOLE
ON EXISTING SEWER**

**CITY OF BLAINE
PUBLIC WORKS DEPARTMENT**

SIZE A	PREV. DWG NO.	PUBLIC WORKS DRAWING NUMBER 5-3
SCALE <i>NONE</i>	SHEET OF	REV. NO.





NOTES:
 MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M-199 (ASTM C 478) UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.

HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MINIMUM CLEARANCE. STEPS IN MANHOLE SHALL HAVE 6" MINIMUM CLEARANCE. SEE STANDARD PLAN "MISCELLANEOUS MANHOLE DETAILS."

ALL REINFORCED CAST IN PLACE CONCRETE SHALL BE CLASS A. NON-REINFORCED CONCRETE IN CHANNEL AND SHELF SHALL BE CLASS C. ALL PRECAST SHALL BE AX.

PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.

KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS MANHOLE WALL THICKNESS. MAXIMUM HOLE SIZE IS 60" FOR 72" MANHOLE, 84" FOR 96" MANHOLE. MINIMUM DISTANCE BETWEEN HOLES IS 12".

MANHOLE RINGS AND COVERS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621D. MATING SURFACE SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.

ALL BASE REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MINIMUM CLEARANCE.

FOR DETAILS SHOWING GRADE RING, LADDER, STEPS, HANDHOLDS AND TOP SLABS, SEE STANDARD PLAN "MISCELLANEOUS MANHOLE DETAILS."

SEE THE STANDARD SPECIFICATIONS FOR JOINT REQUIREMENTS.

REINFORCING STEEL (FOR PRECAST BASE WITH INTEGRAL RISER)
 0.24 SQ IN/FT IN EACH DIRECTION FOR 72" DIA.
 0.29 SQ IN/FT IN EACH DIRECTION FOR 96" DIA.

PRECAST BASE WITH INTEGRAL RISER.
 GRAVEL BACKFILL FOR PIPE BEDDING, 6" MIN. COMPACTED DEPTH. FOR PRECAST BASES ONLY.

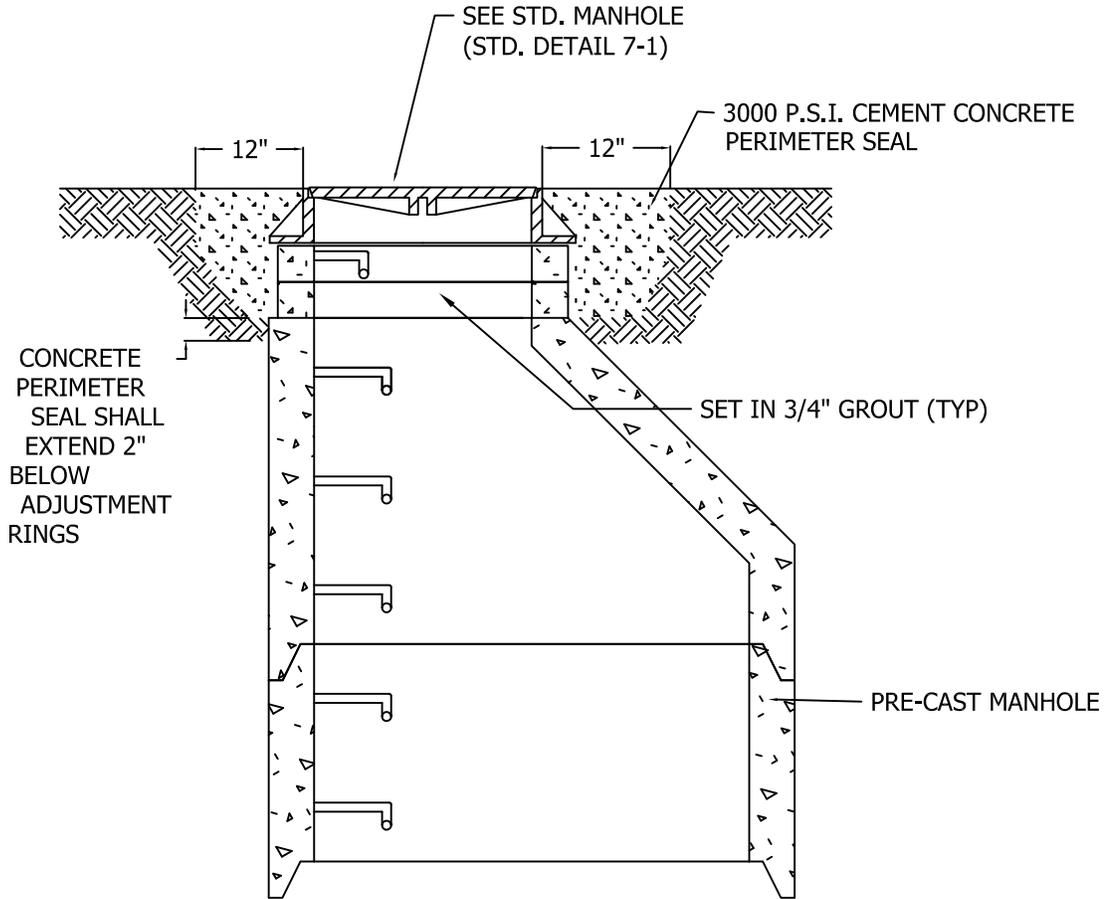
DESIGN ASSUMPTIONS
 HEIGHT: 8' TO 12': SOIL BEARING VALUE EQUALS 3300 PSI MIN.
 HEIGHT: OVER 12' TO 25': SOIL BEARING VALUE EQUALS 3800 PSI MIN.

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**MANHOLE
 TYPE II - 72"**

CITY OF BLAINE PUBLIC WORKS DEPARTMENT			
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SCALE <i>NONE</i>	SHEET	OF	REV. NO.





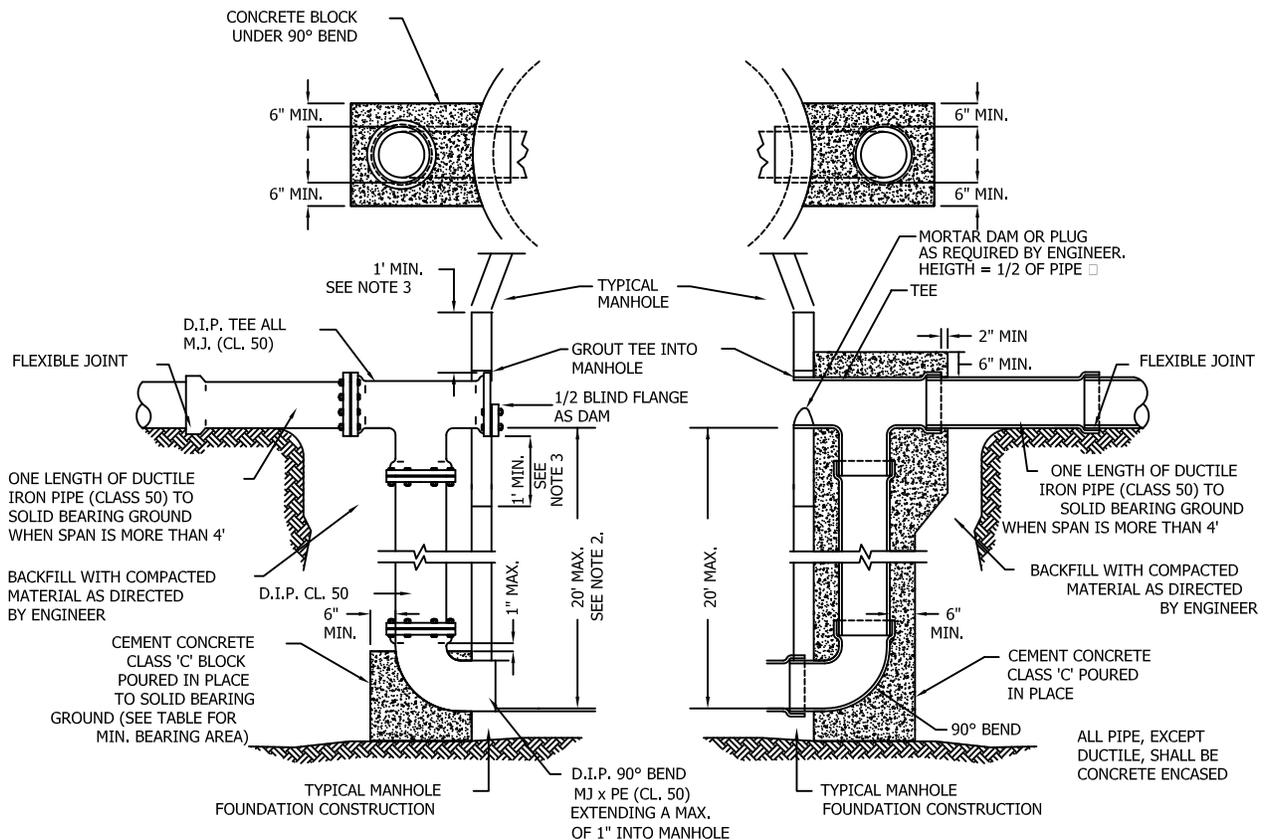
**MANHOLE ADJUSTMENT
SECTION DETAIL
(UNPAVED AREAS)**

**CITY OF BLAINE
PUBLIC WORKS DEPARTMENT**

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SIZE A	PREV. DWG NO.	PUBLIC WORKS DRAWING NUMBER 5-5
SCALE <i>NONE</i>	SHEET	OF
		REV. NO.





**DUCTILE IRON
DROP CONNECTION**

**CONCRETE ENCASED
DROP CONNECTION**

NOTE:

1. THE INTERIOR OF ALL DUCTILE IRON SHALL BE COATED WITH EPOXY 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.

BEARING AREA BASED ON 2000 PSF SAFE BEARING LOAD (UP TO 18" DIAMETER PIPE).

HEIGHT OF DROP (FT)	MINIMUM BEARING AREA (SF)
2.5 - 5	1.0
6 - 10	2.0
11 - 15	2.5
16 - 20	3.0
21 - 25	4.0

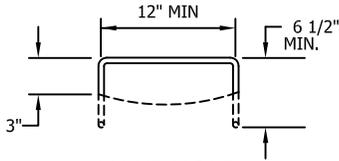
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**OUTSIDE
DROP
STRUCTURE**

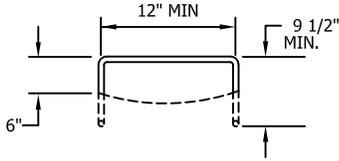
**CITY OF BLAINE
PUBLIC WORKS DEPARTMENT**

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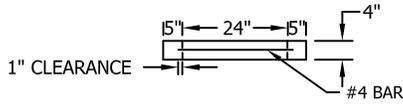




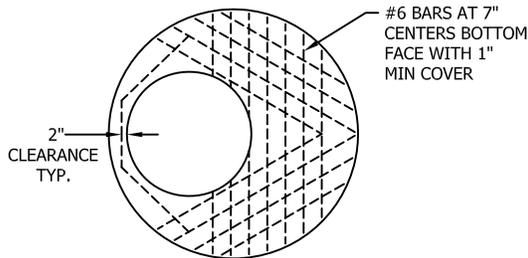
HANDHOLD



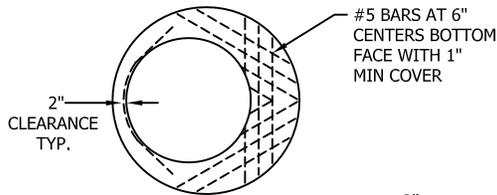
MANHOLE STEP



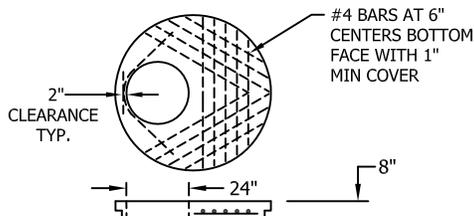
GRADE RING



96" TOP SLAB



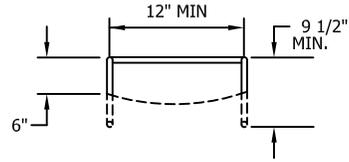
72" TOP SLAB



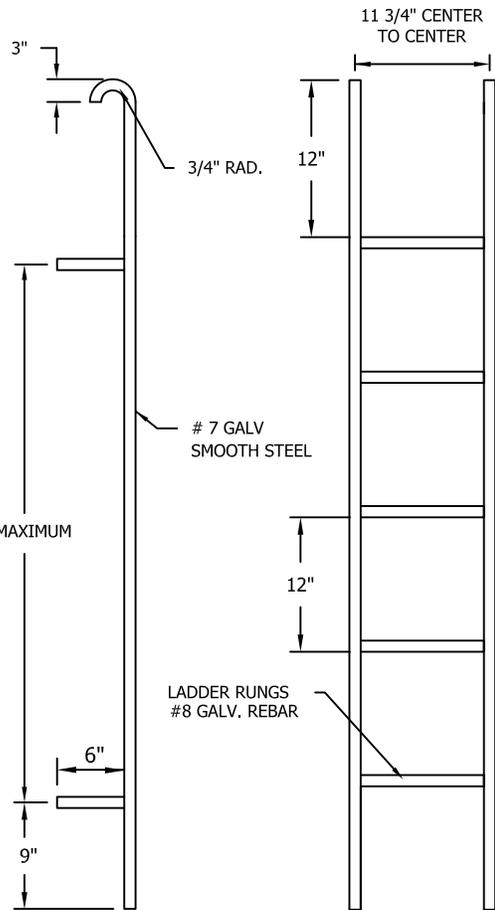
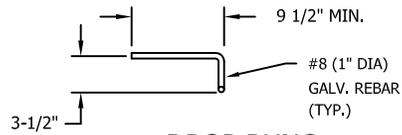
48", 54" & 60" TOP SLAB

NOTES:

1. PROPRIETARY MANHOLE STEPS AND ALTERNATE PLASTIC LADDERS ARE ACCEPTABLE, PROVIDED THAT THEY CONFORM TO SECTION R, ASTM C 478 (AASHTO M 199) AND MEET ALL WSHA REQUIREMENTS.
2. MANHOLE STEP LEGS SHALL BE PARALLEL OR APPROXIMATELY RADIAL AT THE OPTION OF THE MANUFACTURER, EXCEPT THAT ALL STEPS IN ANY MANHOLE SHALL BE SIMILAR. PENETRATION OF OUTER WALL IS PROHIBITED.



**DROP RUNG
MANHOLE STEP**



PREFABRICATED LADDER

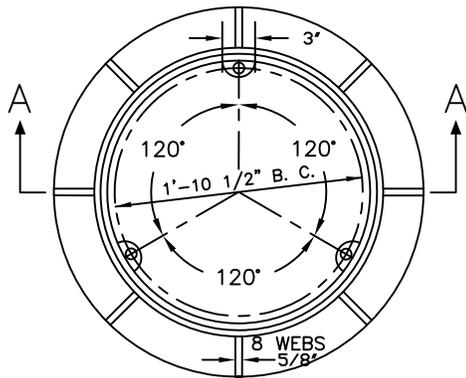
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**MISCELLANEOUS
MANHOLE
DETAILS**

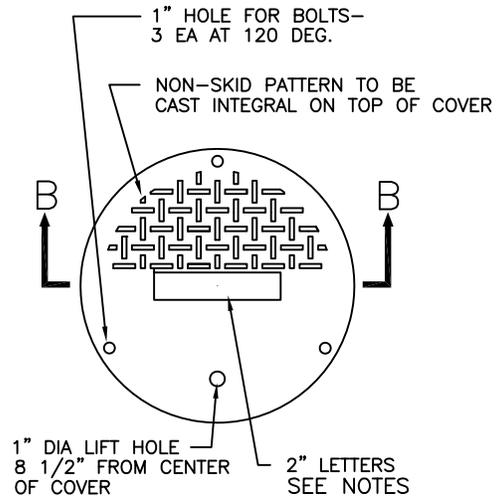
**CITY OF BLAINE
PUBLIC WORKS DEPARTMENT**

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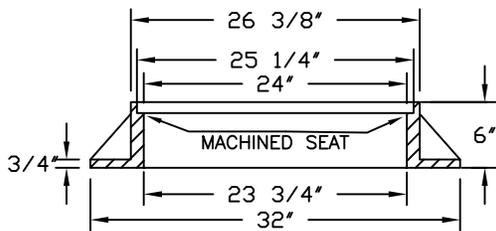




PLAN
MH RING

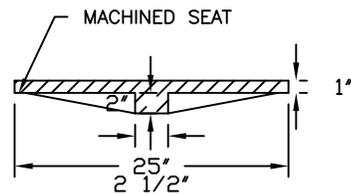


PLAN
MH COVER



SECTION A-A

DUCTILE OR CAST IRON FRAME
MINIMUM WEIGHT 210 LBS



SECTION B-B

CAST IRON COVER MINIMUM WEIGHT 150 LBS.

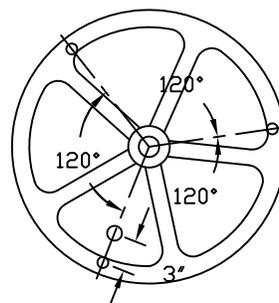
NOTES

MEETS H-20 LOADING

MATERIAL: ASTM A48 CL 30 CAST IRON

WHEN REQUIRED LID TO BE LOCKED
DOWN WITH THREE 5/8" STAINLESS
STEEL SOCKET HEAD CAP SCREWS

COVERS SHALL HAVE THE WORD "SEWER"
IN 2" RAISED LETTERS WHEN USED IN
CONNECTION WITH SANITARY SEWER IN-
STALLATIONS, OR "DRAIN" WHEN IN CON-
NECTION WITH STORM SEWER INSTALLATION,
OR "WATER" WHEN IN CONNECTION WITH
WATER DISTRIBUTION INSTALLATION.



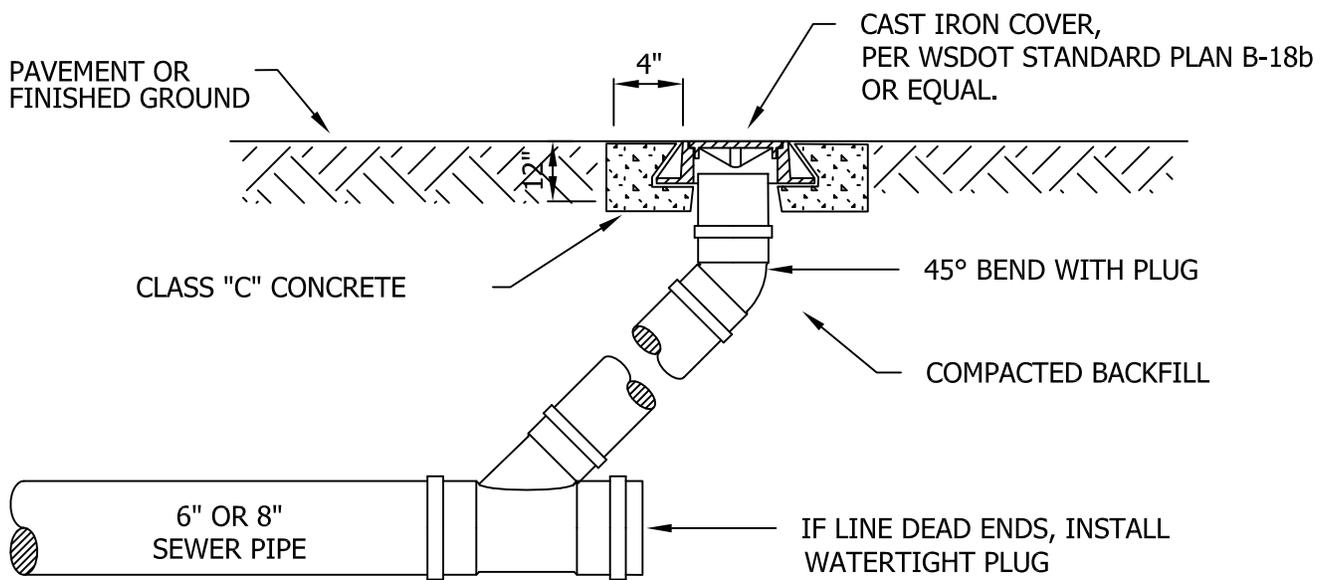
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24" MANHOLE
FRAME & LID

CITY OF BLAINE
PUBLIC WORKS DEPARTMENT

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SCALE NONE	SHEET	OF
		REV. NO.





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**SANITARY SEWER
CLEANOUT**

**CITY OF BLAINE
PUBLIC WORKS DEPARTMENT**

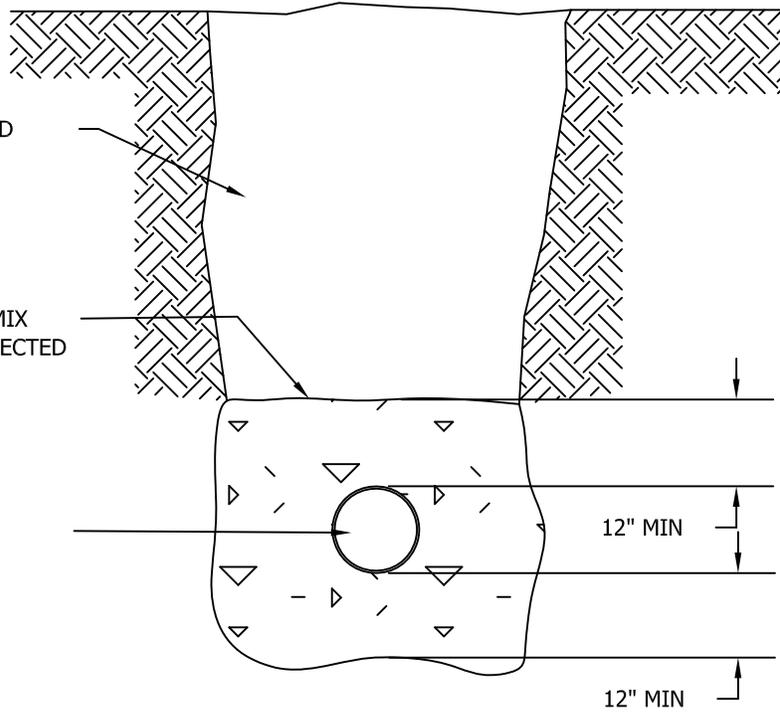
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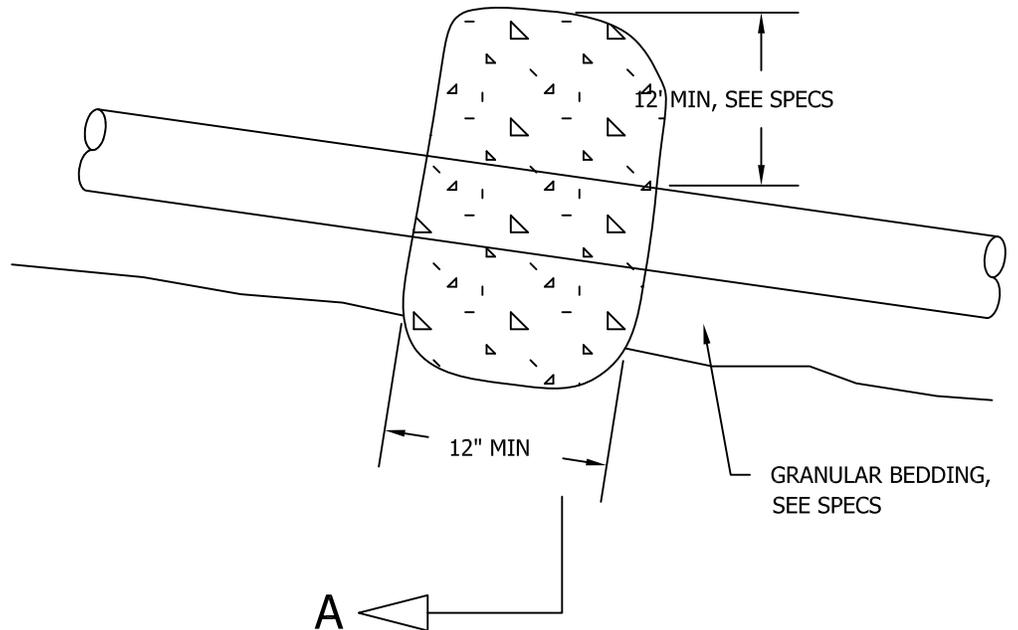
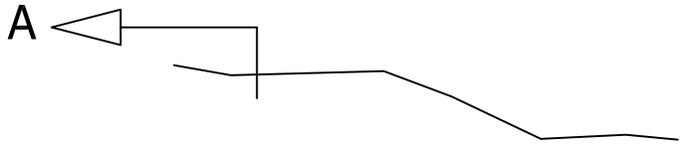
NATIVE BACKFILL COMPACTED TO DENSITY OF ADJACENT SOIL, SEE SPECS

SOIL-CEMENT MIX PLACED AS DIRECTED BY ENGINEER

GRAVITY OR PRESSURE PIPE



SECTION A-A



NOTE:

SOIL CEMENT BLOCKS PLACED OVER AND AROUND PIPE. TAMPED INTO PLACE BEFORE PLACING BACKFILL. USE 10% CEMENT WITH 90% NATIVE SOIL AND WATER TO SUIT TO FORM A DRY MIX THAT WILL HOLD ITS SHAPE WHEN MOLDED INTO A BALL. SOIL CEMENT BLOCKS REQUIRED ON SLOPES 20% OR GREATER.

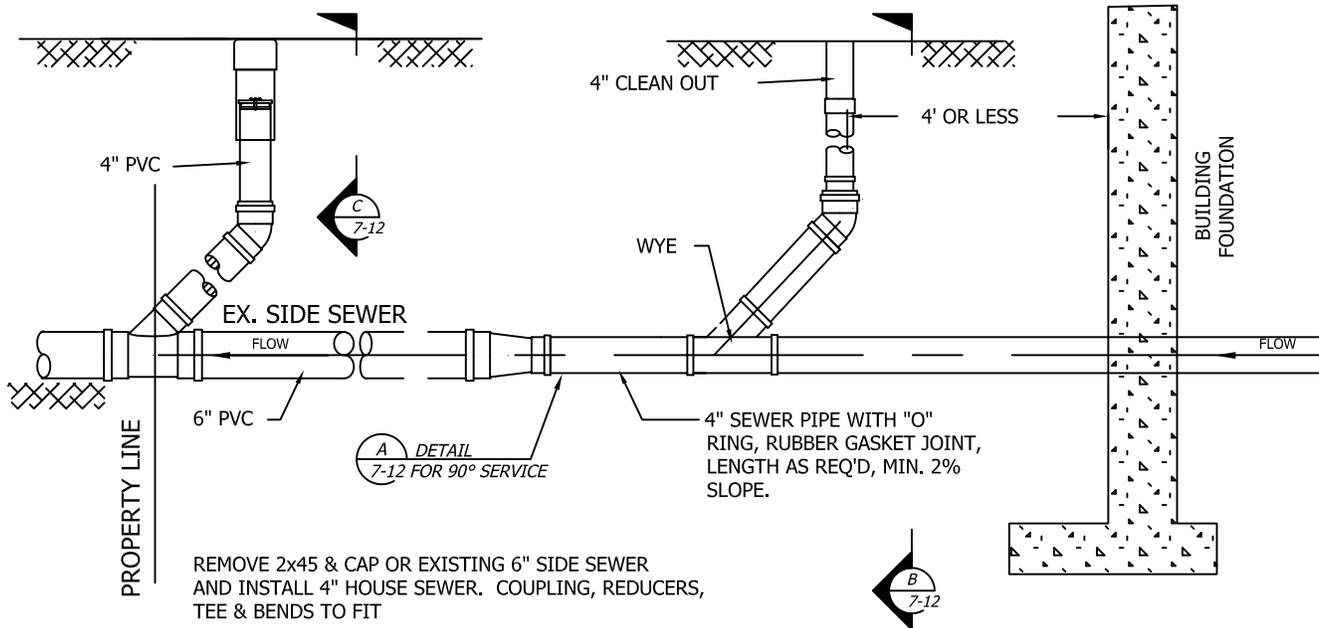
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SOIL/CEMENT
PIPE
ANCHOR

CITY OF BLAINE
PUBLIC WORKS DEPARTMENT

SIZE A	PREV. DWG NO.	PUBLIC WORKS DRAWING NUMBER 5-10
SCALE NONE	SHEET OF	REV. NO.





SANITARY SEWER LATERAL CROSS SECTIONS

NOTES

1. SEWER PIPING SHALL BE LAID ON A FIRM BED THROUGHOUT IT'S ENTIRE LENGTH
2. EARTH TO COMPACTED IN MAXIMUM OF 6" LIFTS.
3. TRENCH WIDTH TO 1 FOOT ABOVE THE TOP OF THE PIPE SHALL NOT EXCEED 30 INCHES MAXIMUM OR 1 1/2 TIMES THE OUTSIDE DIAMETER OF THE PIPE PLUS 18 INCHES WHICHEVER IS GREATER.

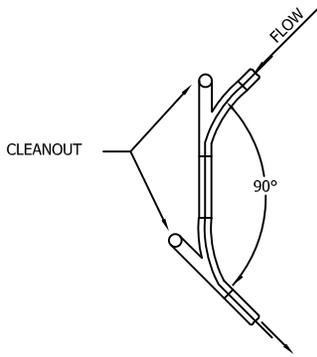
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STANDARD SANITARY SIDE SEWER CONNECTION

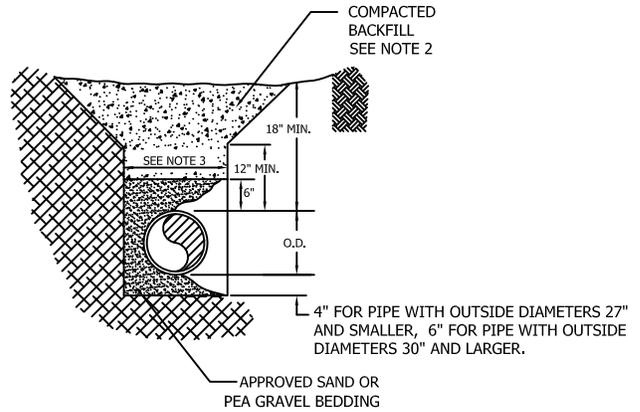
CITY OF BLAINE PUBLIC WORKS DEPARTMENT

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SCALE	NONE	SHEET OF



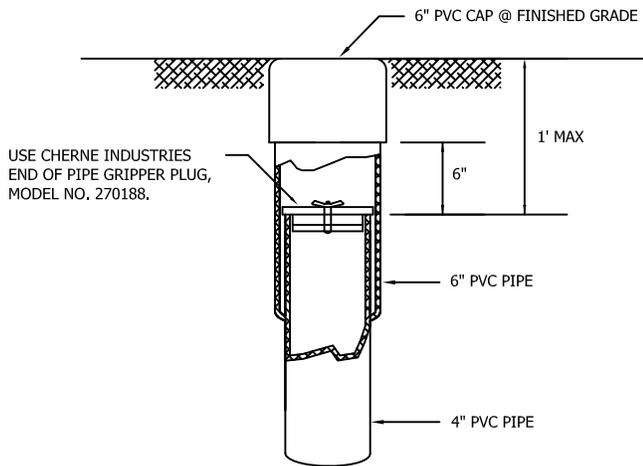


TWO-45° "Y'S" WITH CLEANOUT.

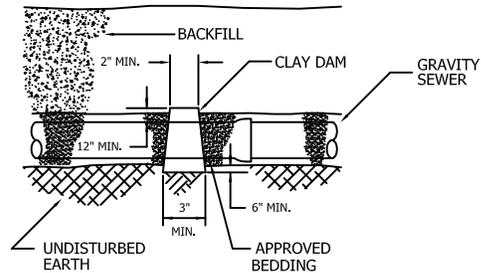


A DETAIL

B TRENCH SECTION



C CLEANOUT GASKET DETAIL



CLAY DAM
NOTE 1

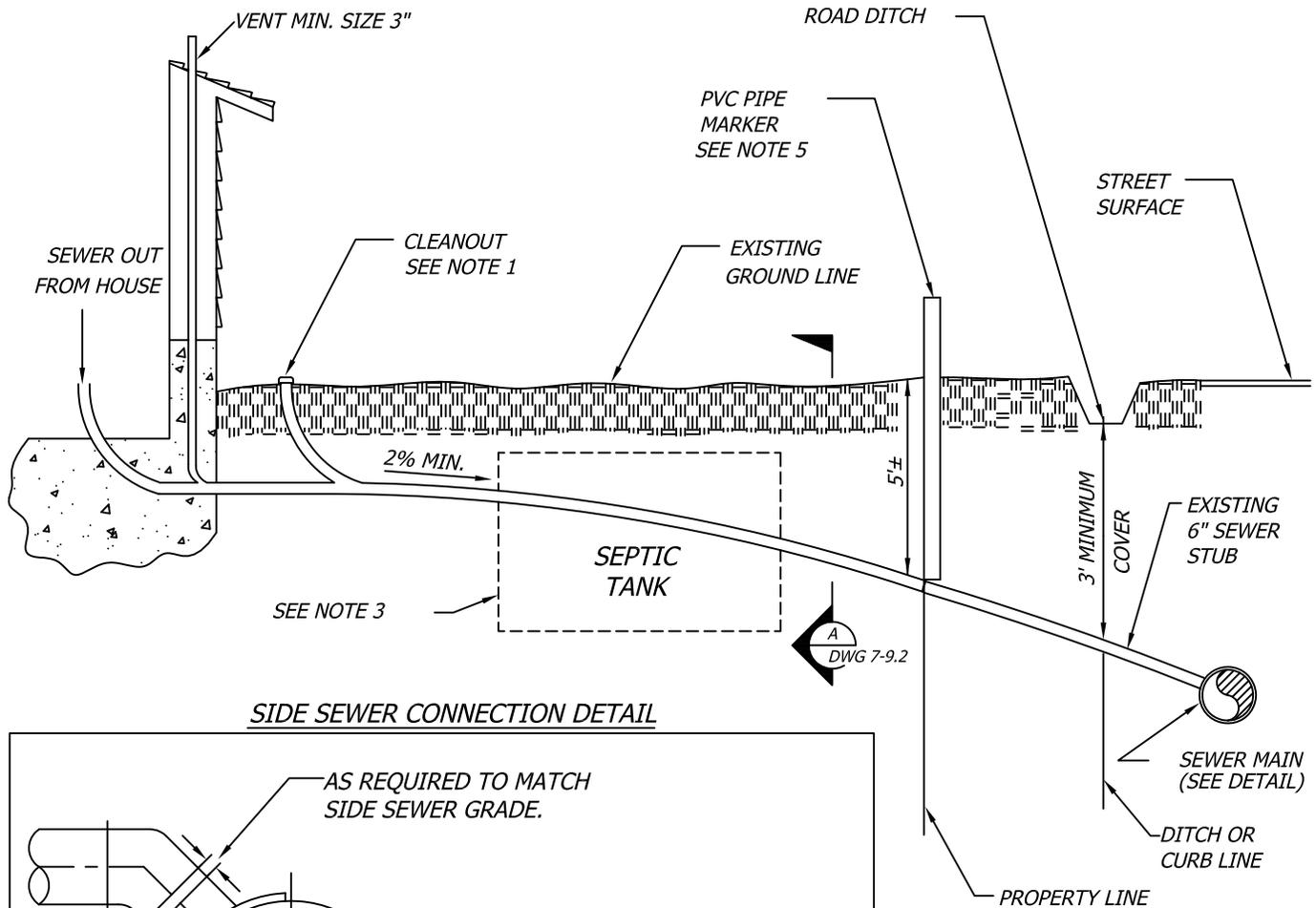
1. THE CITY MAY REQUIRE THAT A DAM CONSTRUCTED OF CLAY OR IMPERVIOUS NATIVE MATERIAL BE INSTALLED IN THE PIPE ZONE IMMEDIATELY DOWNSTREAM AREAS WHERE EXCESS SURFACE AND GROUND WATER WILL LIKELY BEGIN TO FLOW IN THE PIPE BEDDING, (IE WETLANDS, UNDER STORM WATER INFILTRATION SYSTEMS ETC.) THE DAM SHALL BE KEED INTO THE TRENCH BOTTOM AND SIDES A MINIMUM OF 6" AND COVER OVER THE PIPE 12" MINIMUM. THE DAM BASE SHALL BE A MINIMUM OF 3' LONG AND THE TOP SHALL BE A MINIMUM OF 2' LONG, AS MEASURED ALONG THE PIPE.

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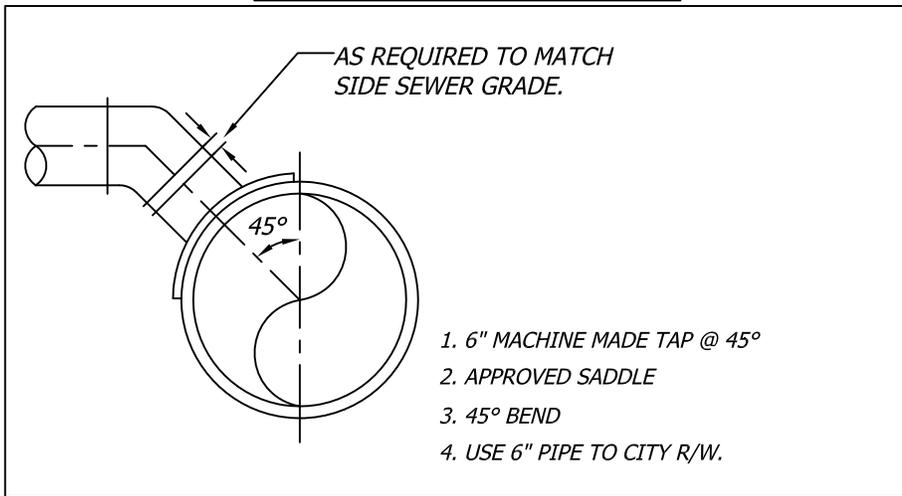
**STANDARD
SANITARY SIDE SEWER
CONNECTION DETAILS**

CITY OF BLAINE PUBLIC WORKS DEPARTMENT			
SIZE A	PREV. DWG. NO.	PUBLIC WORKS DRAWING NUMBER 5-12	
SCALE <i>NONE</i>	SHEET OF	REV. NO.	





SIDE SEWER CONNECTION DETAIL



NOTES

1. EACH HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT IT'S UPPER TERMINUS AND EACH RUN OF PIPING WHICH IS MORE THAN 100' IN TOTAL DEVELOPED LENGTH, SHALL BE PROVIDED WITH A CLEANOUT FOR EACH 100' OR FRACTION THEREOF, IN LENGTH OF SUCH PIPING.
2. LINE AND GRADE
HORIZONTAL DRAINAGE PIPING SHALL BE LAID IN PRATICAL ALLIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN 1/4" PER FOOT OR 2% TOWARD THE POINT OF DISPOSAL.
3. TANK SHALL BE PUMPED BY A LICENCED SEPTIC TANK PUMPING CONTRACTOR AND BACK FILLED WITH SAND OR PEA GRAVEL OR REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL SITE.
4. PIPE SHALL MEET ASTM D3034 SDR35 WITH GASKETED JOINTS AND CONNECTION TO BUILDING DRAIN SHALL BE RUBBER GASKET.
5. A 1-1/4" WHITE PVC PIPE, ASTM 2241 SDR 21 200 PSI, SHALL BE PLACED VERTICALLY AT THE END OF EACH STUB AND SHALL RISE TWO FEET ABOVE FINISHED GRADE LEVEL. BOTH ENDS OF THE PVC PIPE SHALL HAVE CAPS GLUED ON AND THE PIPE INTERIOR KEPT CLEAN FOR THE PURPOSE OF FUTURE DEPTH MEASUREMENT.

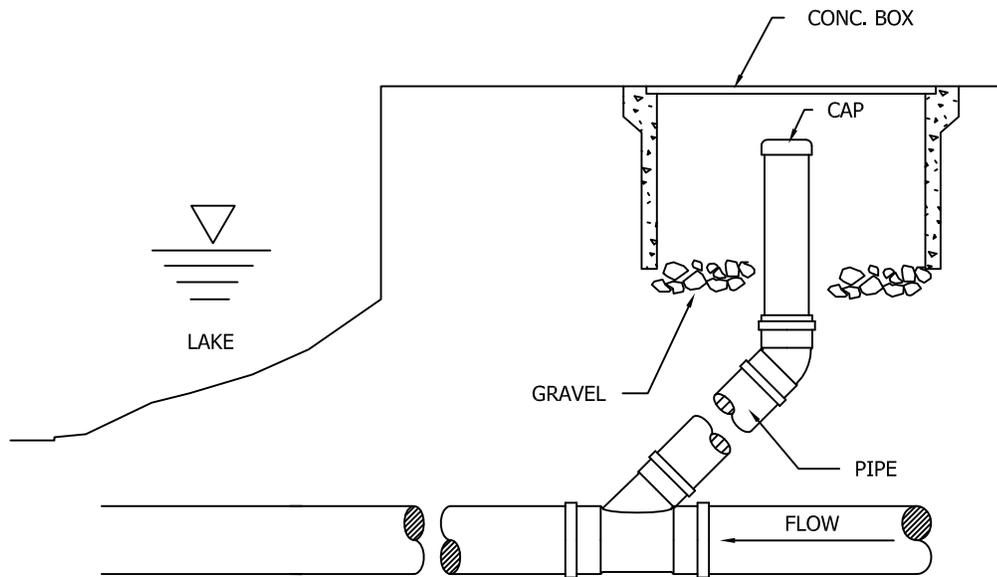
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**STANDARD PLANS
SANITARY SEWER
DRAIN INSTALLATION**

**CITY OF BLAINE
PUBLIC WORKS DEPARTMENT**

SIZE A	PREV. DWG NO.	PUBLIC WORKS DRAWING NUMBER 5-13
SCALE <i>NONE</i>	SHEET OF	REV. NO.





IF POSSIBLE,
THE CLEANOUT TO BE LOCATED JUST ABOVE HYDRAULIC GRADIENT OF LAKE LINE.
THE CLEANOUT SHOULD BE LOCATED TO PROVIDE EASY ACCESS FOR INSPECTION
AND MAINTENANCE

LAKE LINE CLEANOUT

PIPE SIZE	MATERIAL	CAP	ENCLOSURE	COMMENTS
6"	PVC	SIDU MECJANICAL SEWER PLUG	CONCRETE METER BOX, FOGTITE 1-D	INSTALLATION BELOW HYDRAULIC GRADIENT
6"	PVC	PVC CAP W/O GASKET	CONCRETE METER BOX, FOGTITE 1-D	INSTALLATION ABOVE HYDRAULIC GRADIENT
6"	DIP	MECH. JOINT CAP	CONCRETE METER BOX, FOGTITE 1-D	INSTALLATION ABOVE HYDRAULIC GRADIENT
8"	PVC	PVC CAP W/O GASKET	CONCRETE METER BOX, FOGTITE No. 2 (CONCRETE LID W/ALUM. INSP. PLATE	INSTALLATION ABOVE HYDRAULIC GRADIENT
8"	DIP	MECH. JOINT CAP	CONCRETE METER BOX, FOGTITE No. 2 (CONCRETE LID W/ALUM. INSP. PLATE	INSTALLATION ABOVE HYDRAULIC GRADIENT

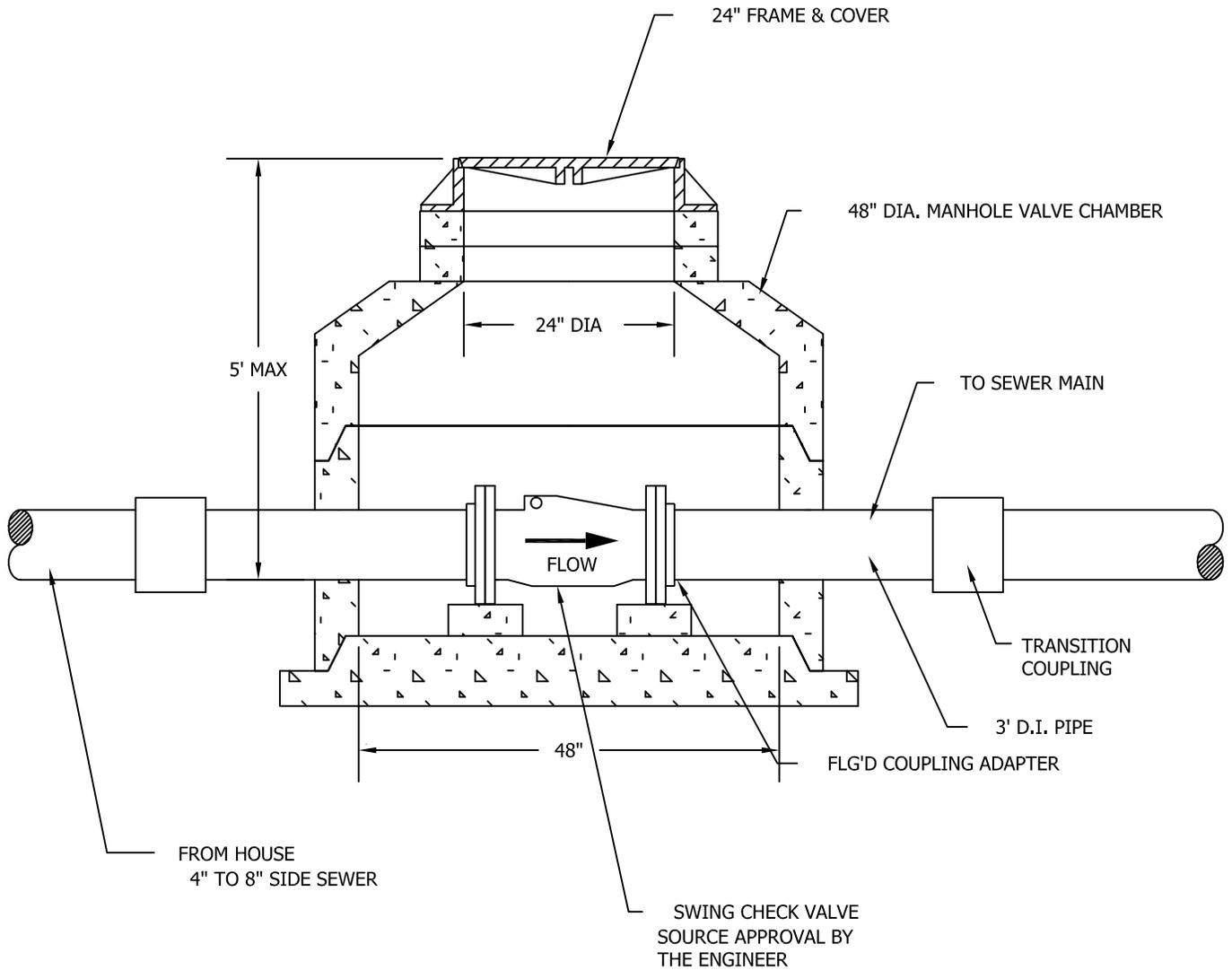
0	update	tmc		
NO.	REVISION DESCRIPTION	PREP'D BY	DATE	APPROVED

**SIDE SEWER CLEANOUT
FOR LOW PRESSURE
LINE CONNECTION**

**CITY OF BLAINE
PUBLIC WORKS DEPARTMENT**

SIZE A	PREV. DWG NO.	PUBLIC WORKS DRAWING NUMBER 5-14
SCALE <i>NONE</i>	SHEET	OF
		REV. NO.





NO.	REVISION DESCRIPTION	PREP'D BY	DATE	APPROVED
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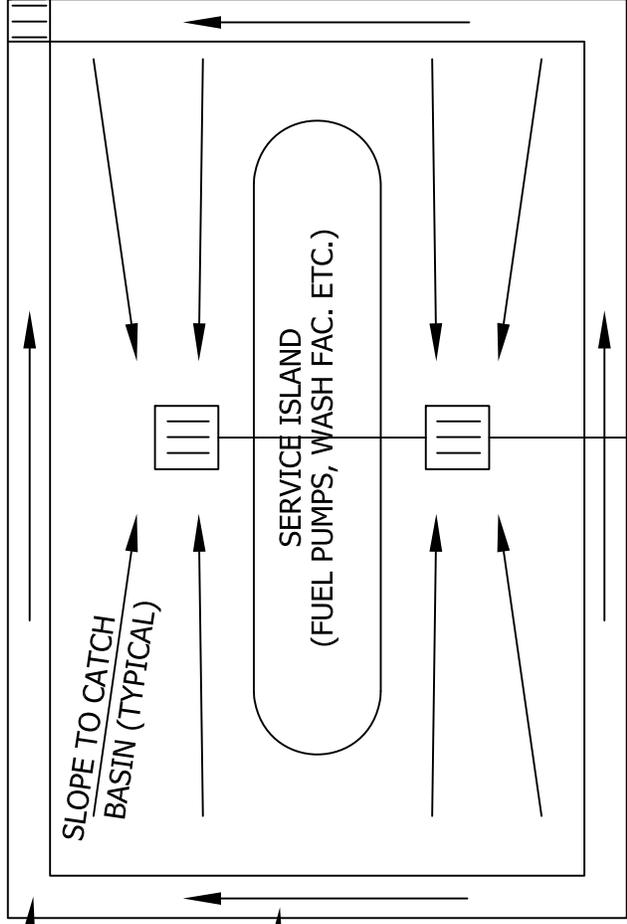
**CHECK VALVE ASSEMBLY
FOR JOINT USE SIDE
SEWER (4" TO 8" DIA.)**

CITY OF BLAINE PUBLIC WORKS DEPARTMENT			
SIZE A	PREV. DWG NO.	PUBLIC WORKS DRAWING NUMBER 5-15	
SCALE <i>NONE</i>	SHEET	OF	REV. NO.



TO STORM SEWER

TO SANITARY SEWER



SLOPE TO CATCH
BASIN (TYPICAL)

SERVICE ISLAND
(FUEL PUMPS, WASH FAC. ETC.)

OIL/WATER SEPARATOR
PER STD. DETAIL
6C-20A OR 6C-20B

GATE VALVE

UNCOVERED PAVED VEHICLE SERVICE AREA
NOTE: UNCOVERED AREA GRADED TO DRAIN
TO SANITARY SEWER SHALL NOT EXCEED
200 SF. AREAS OVER 200 SF REQUIRE A
ROOF, WITH ROOF DRAINING TO STORM SEWER.

PAVED GUTTER. SLOPE TO STORM SEWER INLET
NOTE: GUTTER NOT REQUIRED WHERE SURROUNDING
GRADE DRAINS AWAY FROM SERVICE AREA.

NO.	REVISION DESCRIPTION	PREP'D BY	DATE	APPROVED
0	updated	tmc		

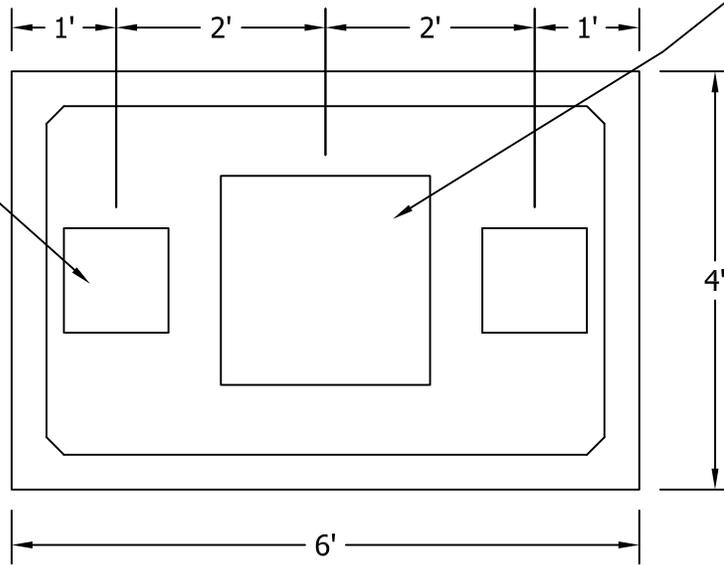
**UNCOVERED PAVED
VEHICLE SERVICE AREA
DRAINAGE DETAIL**

CITY OF BLAINE PUBLIC WORKS DEPARTMENT			
SIZE A	PREV. DWG NO.	PUBLIC WORKS DRAWING NUMBER 5-17	
SCALE <i>NONE</i>	SHEET	OF	REV. NO.

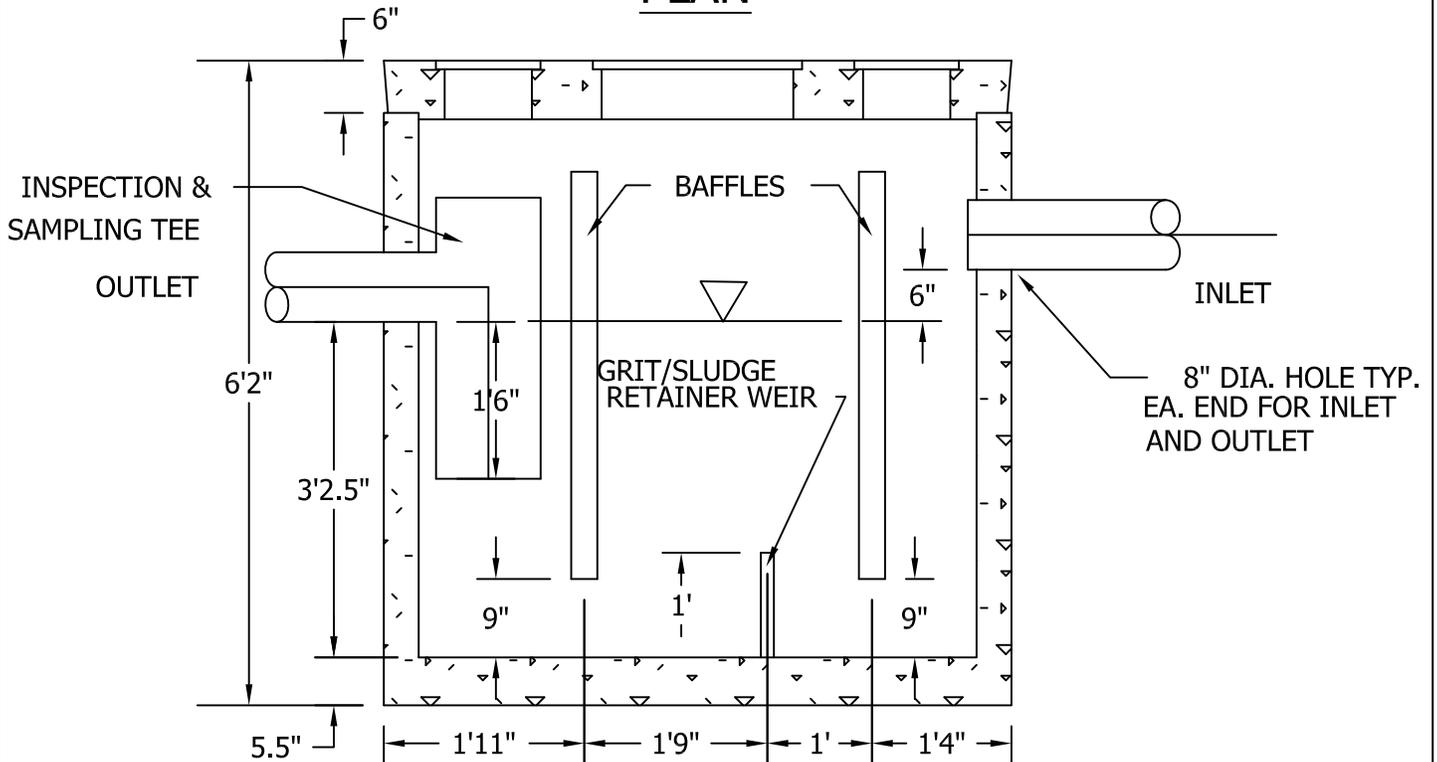


2 NO. 1012P
DIAMOND PLATE
INSPECTION COVERS
(12" X 12")

NO. 222P DIAMOND
PLATE ACCESS DOOR
(24" X 24")



PLAN



ELEVATION

NOTES

1. UTILITY VAULT COMPANY, INC., #660-SA, OR EQUAL
2. LOCATE WITHIN 20 FEET OF DRIVE FOR ACCESS BY MAINTENANCE VEHICLE.
3. INSPECTION AND SAMPLING TEE TO BE INSTALLED BY CONTRACTOR. LINE-SIZED P.V.C. PIPE SHALL BE USED.
4. FILL WITH CLEAN WATER PRIOR TO START-UP OF SYSTEM.
5. GRAY AND BLACK WATER SHALL BE CARRIED BY SEPARATE SIDE SEWER.

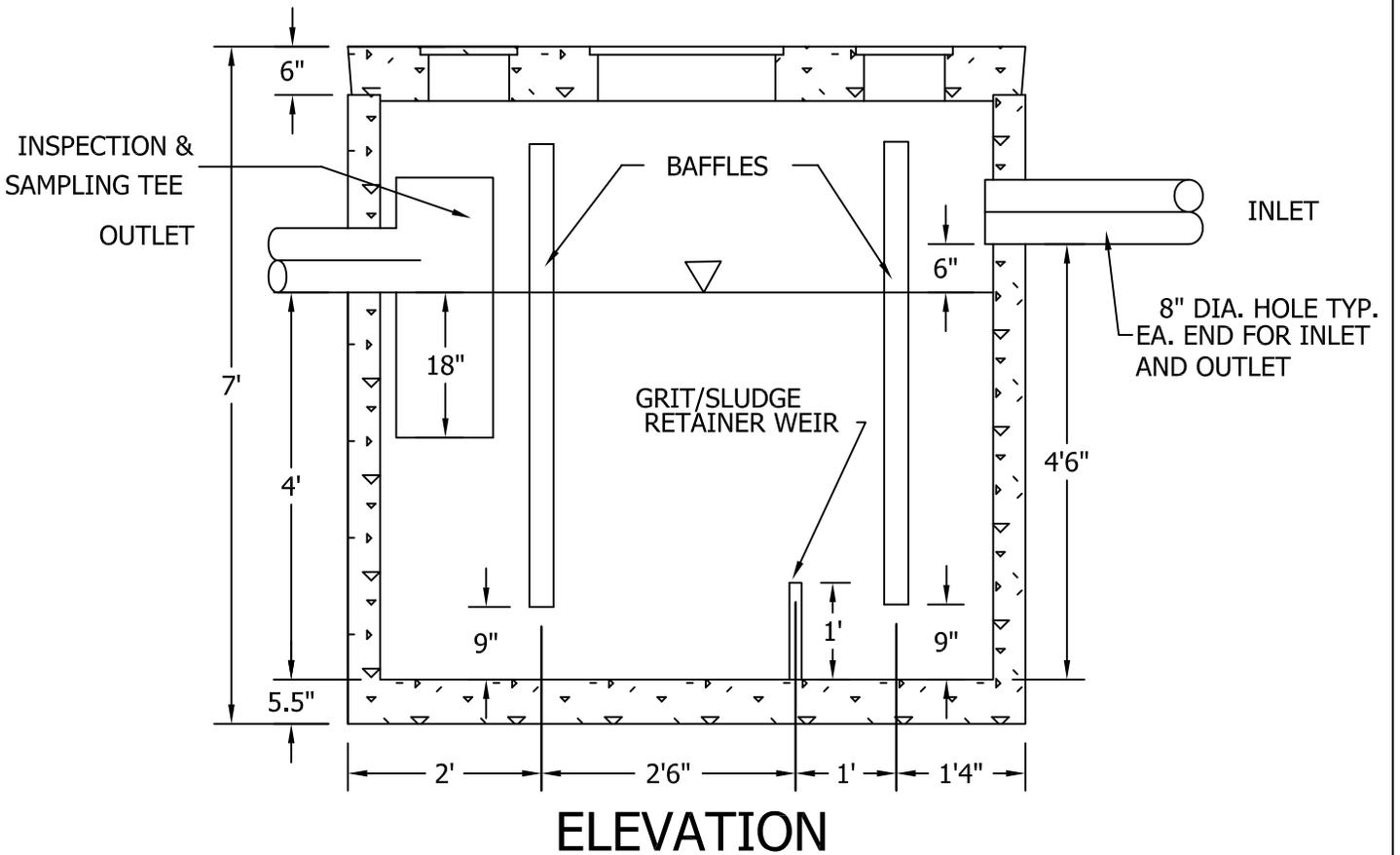
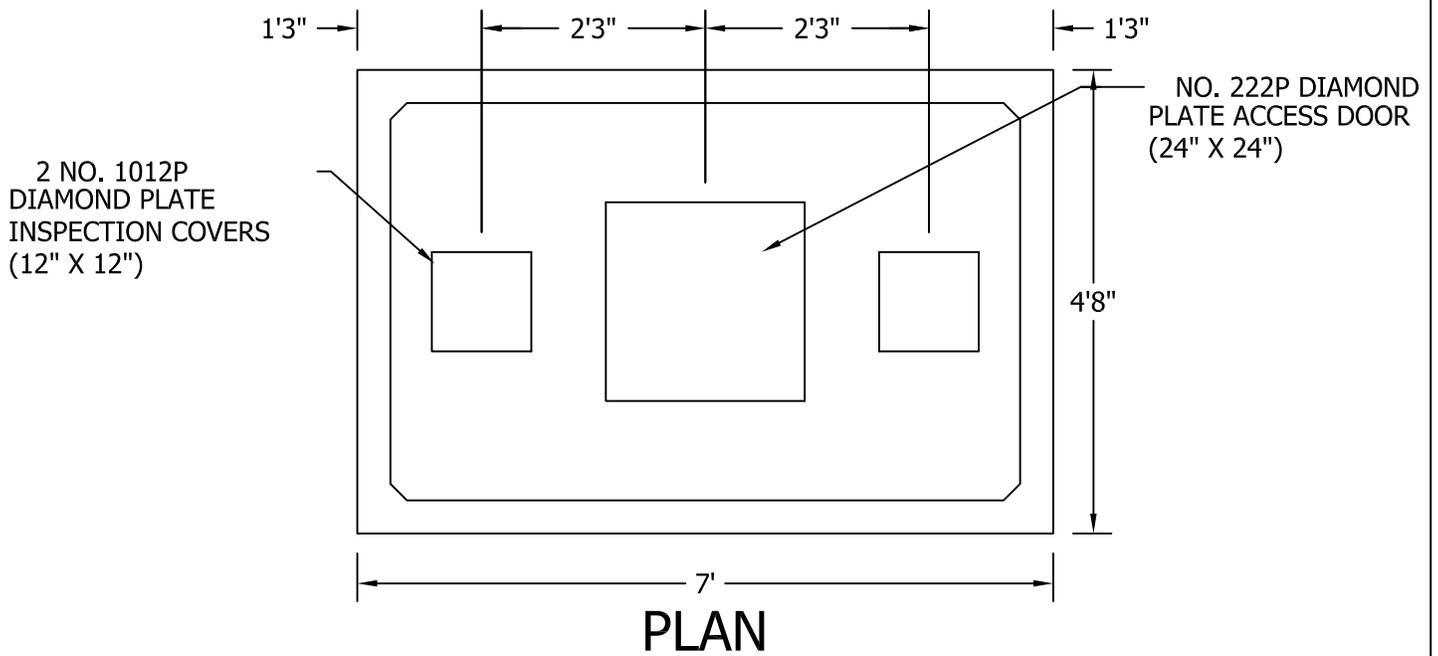
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NO.	REVISION DESCRIPTION	PREP'D BY	DATE	APPROVED

**450 GALLON BAFFLE
TYPE OIL/WATER
SEPARATOR**

CITY OF BLAINE
PUBLIC WORKS DEPARTMENT

SIZE A	PREV. DWG NO.	PUBLIC WORKS DRAWING NUMBER 5-18
SCALE <i>NONE</i>	SHEET	OF





NOTES

1. UTILITY VAULT COMPANY, INC., #577-SA, OR EQUAL
2. LOCATE WITHIN 20 FEET OF DRIVE FOR ACCESS BY MAINTENANCE VEHICLE.
3. INSPECTION AND SAMPLING TEE TO BE INSTALLED BY CONTRACTOR. LINE-SIZED P.V.C. PIPE SHALL BE USED.
4. FILL WITH CLEAN WATER PRIOR TO START-UP OF SYSTEM.
5. GRAY AND BLACK WATER SHALL BE CARRIED BY SEPARATE SIDE SEWER.

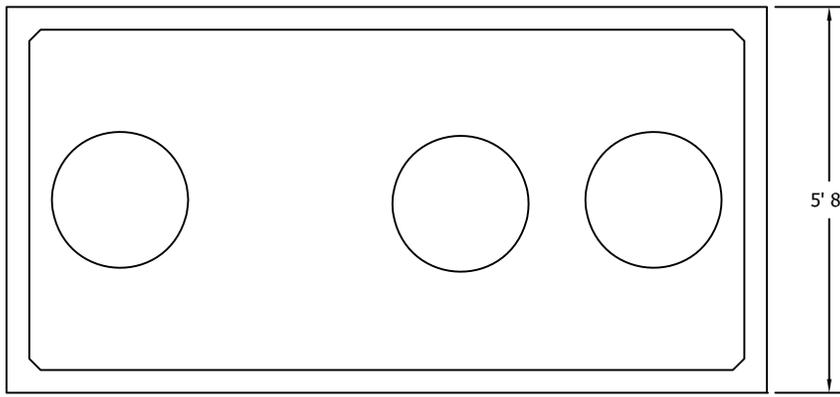
NO.	REVISION DESCRIPTION	PREP'D BY	DATE	APPROVED
0	updated	tmc		

**800 GALLON BAFFLE
TYPE OIL/WATER
SEPARATOR**

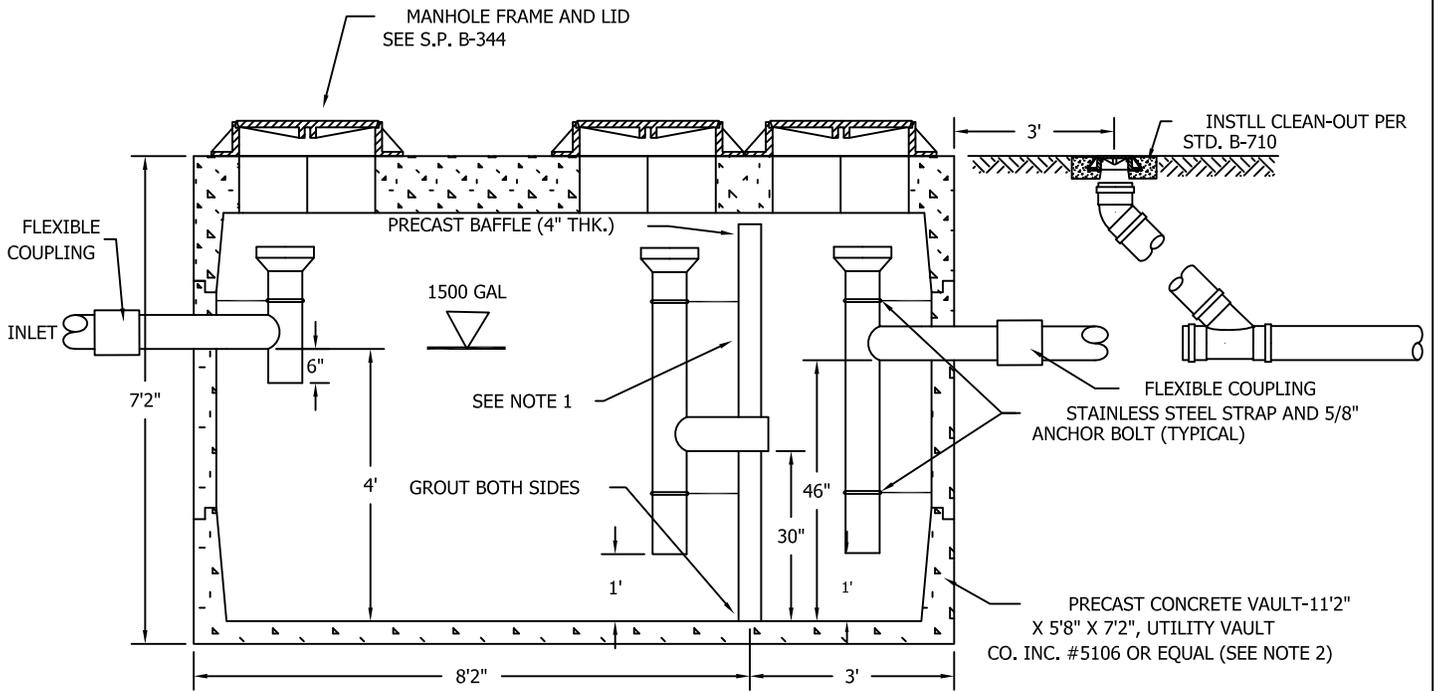
**CITY OF BLAINE
PUBLIC WORKS DEPARTMENT**

SIZE A	PREV. DWG NO.	PUBLIC WORKS DRAWING NUMBER 5-19
SCALE <i>NONE</i>	SHEET	OF





PLAN



SECTION

GENERAL NOTES

1. IF VAULT IS NOT SLOTTED TO ACCEPT PRECAST CONCRETE BAFFLE, THEN PRECAST CONCRETE BAFFLE SHALL BE HELD IN PLACE BY (2) 3" X 3" X 3/8" ANGLE IRON (4' LONG) ATTACHED TO VAULT WALL WITH (4 EA) 1/2" BOLTS AND NUTS (WITH WASHERS) SPACED 14" O.C.. ANGLE AND FASTENERS SHALL BE STAINLESS STEEL OR GALVANIZED AND ASPHALT COATED.
2. PRECAST VAULT AND BAFFLE SHALL HAVE KNOCKOUTS AT ALL PIPE OPENINGS. IF KNOCKOUTS ARE NOT PRESENT THEN PIPE OPENINGS SHALL BE CORE-DRILLED. PIPE OPENINGS SHALL BE 2" LARGER THAN PIPE DIAMETER.
3. POSITION RISERS BELOW ACCESS OPENINGS TO ALLOW CLEAR ACCESS TO RISER AND VAULT CHAMBER.
4. LOCATE INTERCEPTOR WITHIN 20' OF DRIVE FOR ACCESS BY MAINT. VEHICLE.
5. CONNECTIONS TO CONCRETE WALL WITH PVC PIPE REQUIRE KOR-N-SEAL CONNECTOR OR A.C. X P.V.C. BRANT ADAPTER. SEAL ALL PIPE CONNECTIONS WITH NON-SHRINK GROUT.
6. LINE-SIZED P.V.C. PIPE SHALL BE USED THROUGHOUT.
7. GRAY-WATER ONLY. BLACK-WATER SHALL BE CARRIED BY SEPARATE SIDE SEWER.
8. CLEAN-OUT REQUIRED 3' MAX DOWNSTREAM OF INTERCEPTOR.
9. FILL WITH CLEAN WATER PRIOR TO START UP OF SYSTEM.

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NO.	REVISION DESCRIPTION	PREP'D BY	DATE	APPROVED

**1500 GALLON
GREASE
INTERCEPTOR**

**CITY OF BLAINE
PUBLIC WORKS DEPARTMENT**

SIZE A	PREV. DWG NO.	PUBLIC WORKS DRAWING NUMBER 5-20
SCALE <i>NONE</i>	SHEET OF	REV. NO.

