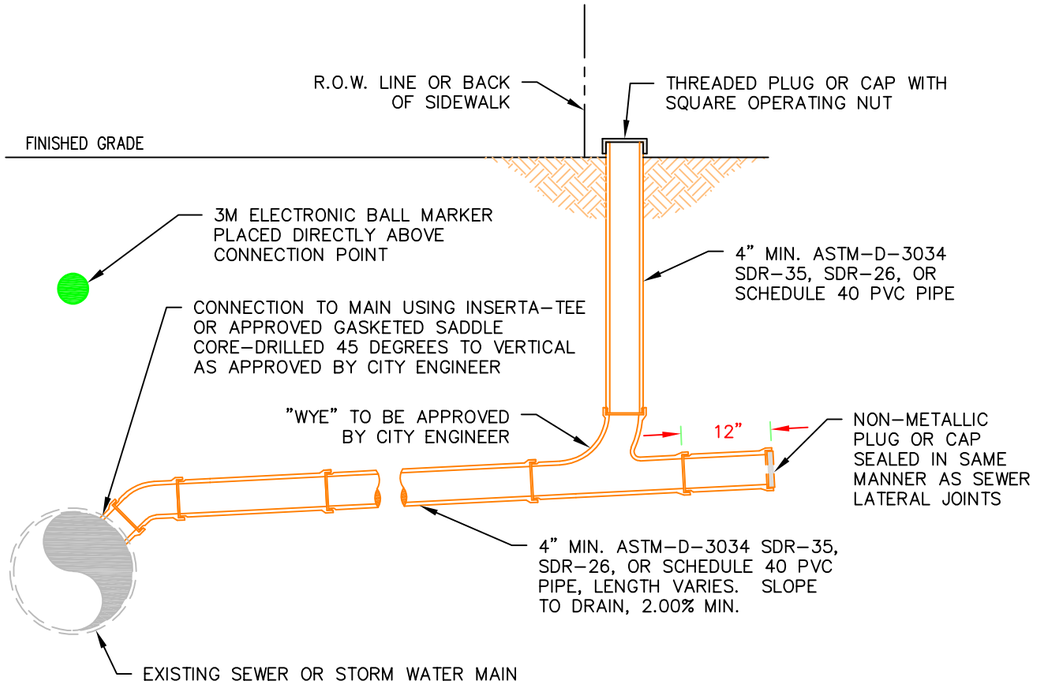
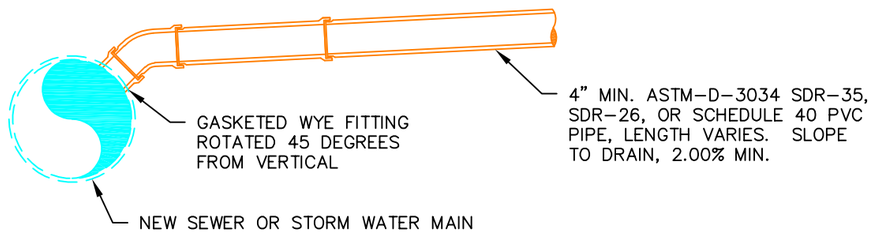
CASE 1 NEW CONNECTION TO EXISTING SEWER MAIN



CASE 2 NEW CONNECTION TO NEW SEWER MAIN



CASE 3 NEW SHALLOW SEWER CONNECTION

GENERAL NOTES

1. ALL CONNECTIONS MUST BE APPROVED BY THE CITY OF WENATCHEE AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
2. LATERAL CONNECTIONS TO THE MAIN LINE SHALL BE A MINIMUM OF 2 FEET APART.
3. LATERAL CONNECTIONS TO THE PUBLIC MAIN LINE SHALL BE DESIGNED TO FLOW BY GRAVITY THROUGH THE POINT OF CONNECTION. PRESSURE SYSTEMS SHALL DISCHARGE INTO GRAVITY FLOW NO LESS THAN 10 FEET UPSTREAM OF THE POINT OF CONNECTION BETWEEN THE 4 INCH LATERAL AND THE MAIN LINE.
4. THE SANITARY SEWER LATERAL, INCLUDING THE TAP, SADDLE, TEE, PIPE, AND CLEANOUT IS CONSIDERED "PRIVATE" UPSTREAM OF THE MAIN LINE POINT OF CONNECTION.
5. MINIMUM 4 INCH DIAMETER CLEANOUTS SHALL BE CONSTRUCTED ON ALL SEWER LATERALS. THE VERTICAL RISER SHALL BE OF EQUAL SIZE AS THE LATERAL PIPE OR LARGER.
6. CLEANOUTS MAY BE LOCATED IN THE PLANTER STRIP AT THE BACK OF WALK, IF ONE EXISTS, AND SHALL BE VISIBLE AT FINISHED GRADE. CLEANOUTS LOCATED BELOW FINISHED GRADE SHALL HAVE ACCESSIBLE COVER.
7. 3M ELECTRONIC BALL MARKER TO BE PLACED 24 TO 36 INCHES BELOW FINISHED GRADE AND SHALL BE GREEN IN PIGMENT.
8. CASE 1: CONNECTIONS TO EXISTING SEWER MAINS SHALL BE CUT USING A HOLE SAW. CONNECTIONS TO EXISTING MAIN LINES SHALL UTILIZE AN APPROVED TAPPING SADDLE OR TEE-WYE CONNECTION. LATERALS SHALL NOT PROTRUDE INTO THE MAIN LINE.
9. CASE 2: CONNECTIONS TO NEWLY CONSTRUCTED MAIN LINES SHALL UTILIZE A MANUFACTURED, GASKETED TEE-WYE INSTALLED IN-LINE WITH THE NEW SEWER MAIN. CORE-DRILLING OF NEW SEWER MAIN LINES FOR SEWER LATERALS SHALL NOT BE PERMITTED.
10. CASE 3: WHERE INSUFFICIENT GRADE EXISTS TO ALLOW SEWERS TO BE INSTALLED IN ACCORDANCE WITH CASE 1 OR 2, FLATTER SEWERS ARE PERMISSIBLE ON A CASE-BY-CASE BASIS AS DETERMINED BY THE CITY ENGINEER. CONNECTIONS SHALL UTILIZE A MANUFACTURED, GASKETED TEE-WYE FITTING INSERTED INTO THE MAIN LINE. CUTTING OR DRILLING BELOW SPRINGLINE IS PROHIBITED. THE INVERT ELEVATION OF THE PRIVATE SEWER LATERAL AT THE PROPERTY LINE IN SUCH INSTANCES SHALL BE AT OR ABOVE THE ELEVATION OF THE CROWN OF THE PUBLIC SEWER MAIN. PRIOR TO SUCH APPROVAL, A SITE-SPECIFIC CONSTRUCTION PLAN AND DETAIL MUST BE PROVIDED TO AND APPROVED BY THE CITY ENGINEER. ANY COSTS ASSOCIATED WITH BYPASS PUMPING WILL BE AT THE CONTRACTOR'S EXPENSE.

STANDARD DETAIL
4" TO 6" SANITARY SIDE SEWER
12 INCH AND SMALLER MAINS

City of Wenatchee

REVISIONS	INITIAL	DATE
	DMN	6/19/2015
	NJH	2/9/2016

SCALE: AS SHOWN N.A.	DESIGNED DMN	DRAWN RDH	APPROVED BY
DATE DRAWN 3/23/2015	CHECKED DMN	DATE APPROVED 3/23/2015	STANDARD SPECIFICATIONS WSDOT 7-08 PIPE INSTALL WSDOT 7-18 SIDE SEWERS

DETAIL NO.
S-100

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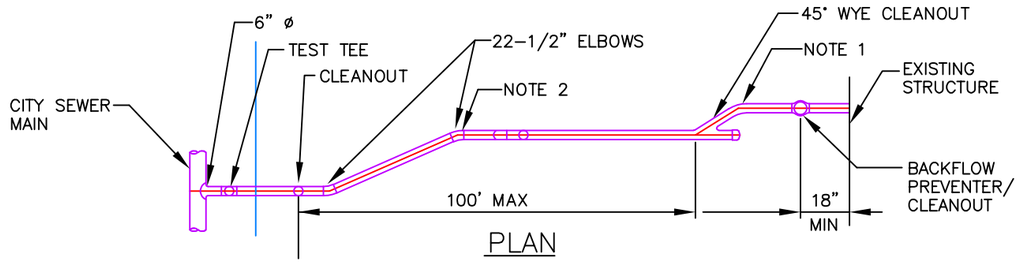
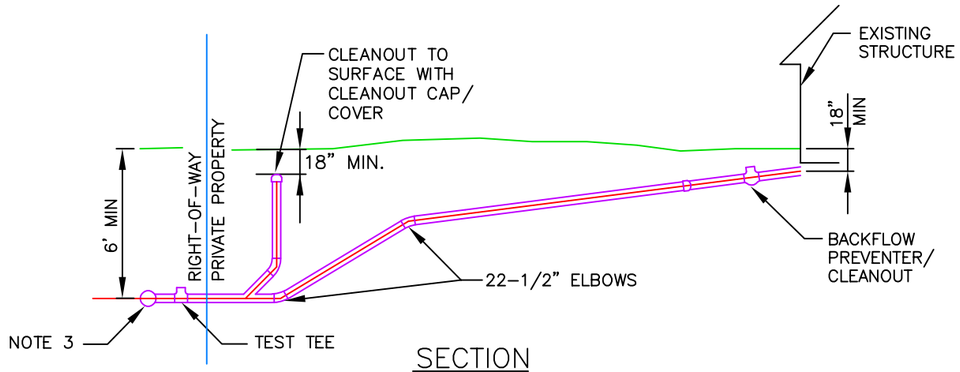


PLAN



SECTION

NOTES:

1. ELBOWS SHALL NOT BE GREATER THAN 45 DEGREES.
2. CLEAN OUT IS REQUIRED FOR EACH PIPE LENGTH GREATER THAN 100' AND FOR EACH 90 DEGREES ACCUMULATED ELBOW PER 100'.
3. RIGHT-OF-WAY RESTORATION SHALL MATCH OR EXCEED THE ORIGINAL CONDITION AND BE IN ACCORDANCE WITH THE CITY STANDARD.
4. BACKFILL FOR PAVED AREA SHALL BE 3/4" MINUS CRUSHED SURFACING TOP COURSE, COMPACTED IN 12" LIFTS.
5. ALL HOUSE PLUMBING OUTLETS MUST BE CONNECTED TO THE SEWER. NO DOWNSPOUTS OR STORM DRAINAGE MAY BE CONNECTED TO THE SEWER SYSTEM.
7. 6' MINIMUM COVERAGE AT PROPERTY LINE.
8. LAY PIPE IN STRAIGHT LINE BETWEEN BENDS. MAKE ALL CHANGES IN GRADE OR LINE WITH A 1/8 BEND OR WYE. 90 DEGREE CHANGE WITH 1/8 BEND AND WYE.
9. 6" SEWER PIPE MINIMUM SIZE IN STREET, AND ELSEWHERE AS DIRECTED BY ENGINEER. 2% MINIMUM GRADE (UNLESS DIRECTED BY ENGINEER) 50% MAXIMUM.
10. 4" SEWER PIPE MINIMUM SIZE ON PROPERTY. 2% MINIMUM GRADE, 100% (45 DEGREE) MAXIMUM.
11. TEST "T" WITH PLUG AT WYE.
12. CONSTRUCTION IN STREET MUST BE DONE BY A REGISTERED/LICENSED CONTRACTOR.
13. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT SIDE SEWER ORDINANCES.
14. ALL CONSTRUCTION REQUIRES A PERMIT AND PAYMENT OF FEE, COMPLETE LEGAL DESCRIPTION OF PROPERTY AND DIMENSIONS.
15. BACKFLOW PREVENTER (CHECK VALVE) IS REQUIRED:
    A. IF CONNECTED TO A COMBINED SIDE SEWER.
    B. IF CONNECTION AT HOUSE IS LOWER THAN BOTH UPSTREAM AND DOWNSTREAM MANHOLE LID.
16. AS-BUILT DRAWING SHOWING LOCATION OF SIDE SEWER IN RELATION TO THE HOUSE IS REQUIRED AFTER INSTALLATION.
17. BEDDING TO BE CLASS C (GRAVEL BORROW) FOR RIGID PIPE AND CLASS F (PEA GRAVEL) FOR FLEXIBLE PIPE (APWA), SECTION 61.

    ASTM D-3034 OR SDR-35.

STANDARD DETAIL RESIDENTIAL SIDE SEWER INSTALLATION

City of Wenatchee

REVISIONS | DATE | INITIAL

DATE DRAWN 12/04/2020 | CHECKED | DATE APPROVED

SCALE: AS SHOWN | DRAWN CAW | APPROVED BY | STANDARD SPECIFICATIONS

DESIGNED

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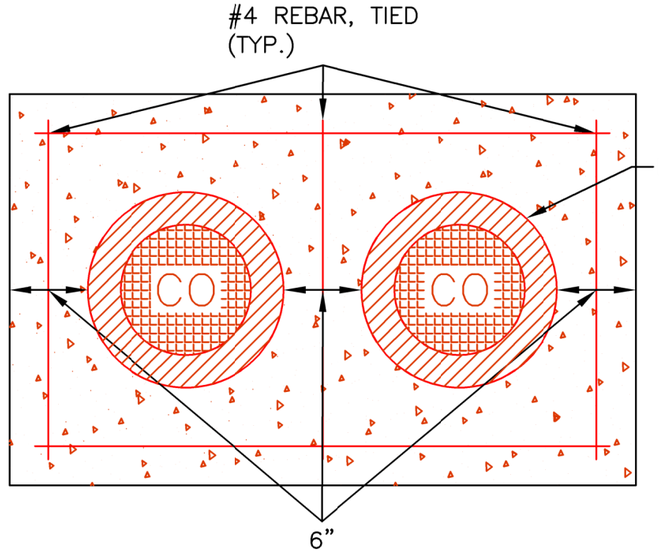
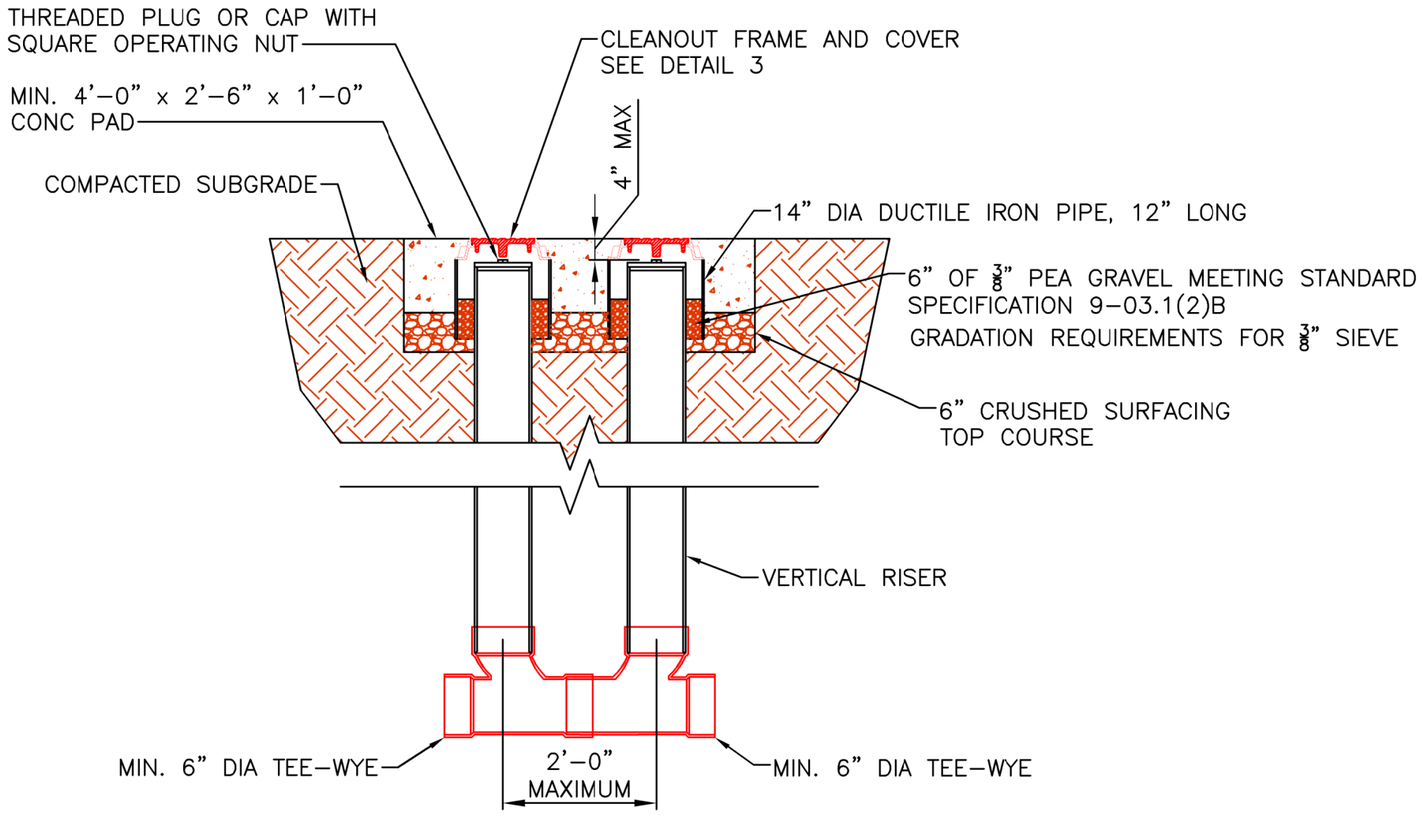


1 CLEANOUT PLAN VIEW

Scale: N.T.S.

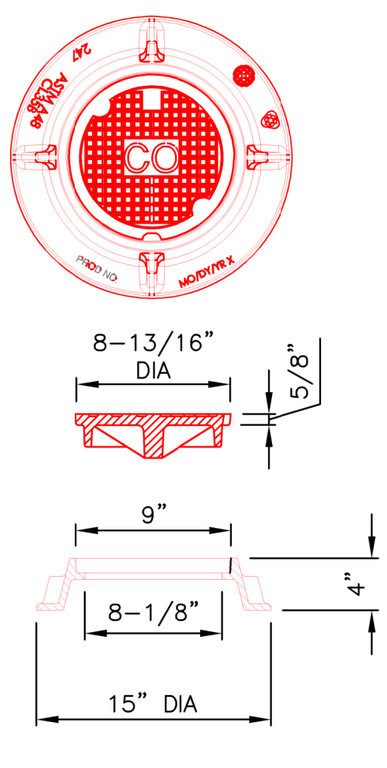
GENERAL NOTES

1. ALL CONNECTIONS MUST BE APPROVED BY THE CITY OF WENATCHEE AND INSTALLED PER MANUFACTURER RECOMMENDATIONS.
2. THE SANITARY SEWER LATERAL, INCLUDING THE TAP, SADDLE, TEE, PIPE, AND CLEANOUT IS CONSIDERED ”PRIVATE” UPSTREAM OF THE MAIN LINE POINT OF CONNECTION.
3. MINIMUM 6 INCH DIAMETER CLEANOUTS SHALL BE CONSTRUCTED ON ALL SEWER LATERALS. THE VERTICAL RISER SHALL BE OF EQUAL SIZE AS THE LATERAL PIPE OR LARGER.
4. CLEANOUTS MAY BE LOCATED IN THE PLANTER STRIP AT THE BACK OF WALK, IF ONE EXISTS, AND SHALL BE VISIBLE AT FINISHED GRADE. CLEANOUTS LOCATED BELOW FINISHED GRADE SHALL HAVE ACCESSIBLE COVERS.
5. CLEANOUT FRAME AND COVER SHALL BE HEAVY DUTY, BOLT DOWN EAST JORDAN MODEL 3675 OR APPROVED EQUAL AND LABELED ”SEWER” OR ”CLEANOUT”.
6. MAXIMUM CENTER–TO–CENTER SPACING BETWEEN CLEANOUTS SHALL BE 2’–0”. MODIFICATIONS TO THIS SPACING REQUIRE THE APPROVAL OF THE ENGINEER.
7. CONCRETE PAD FC’ SHALL BE 3,000 PSI OR GREATER.
8. ALL #4 REBAR SHALL HAVE 2” MINIMUM COVER.



2 CLEANOUT DETAIL

Scale: N.T.S.



3 CLEANOUT FRAME AND COVER

Scale: N.T.S.

STANDARD DETAIL
SANITARY SEWER
DOUBLE CLEANOUT

City of Wenatchee

REVISIONS | INITIAL | DATE

SCALE: AS SHOWN
DESIGNED SRD
DRAWN SRD
APPROVED BY
DATE DRAWN 3/9/2020
CHECKED
DATE APPROVED

STANDARD SPECIFICATIONS
WSDOT 7-08 GENERAL PIPE INSTALLATION
WSDOT 7-18 SIDE SEWERS
WSDOT 7-19 SEWER CLEANOUTS

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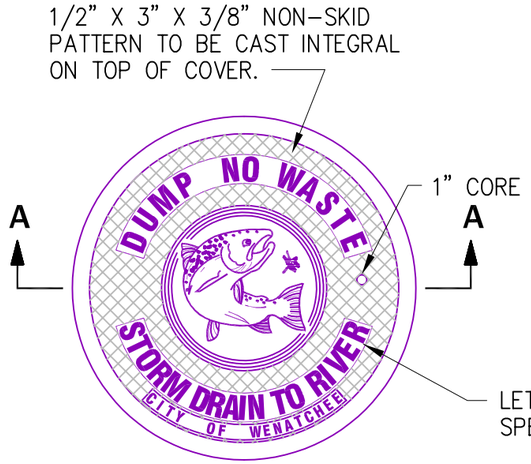
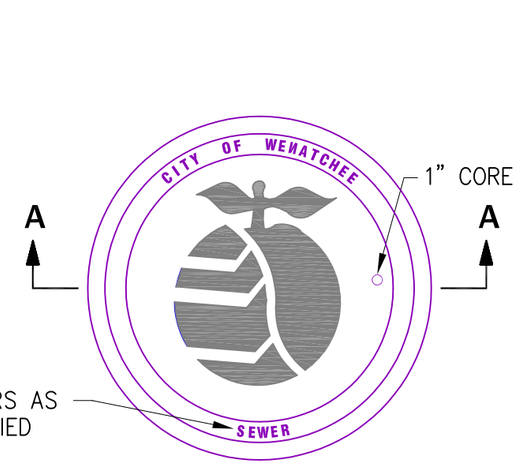
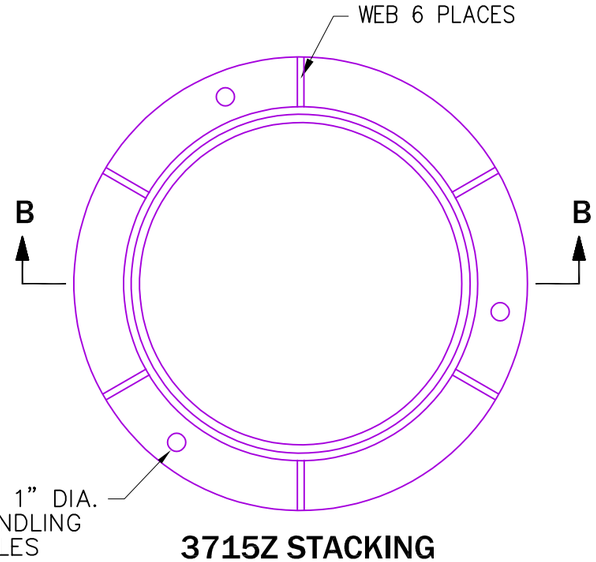


STORM DRAIN
NON LOCKING COVER



SANITARY SEWER
NON LOCKING COVER

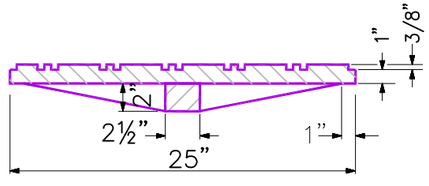


3715Z STACKING
GRAY OR DUCTILE IRON FRAME

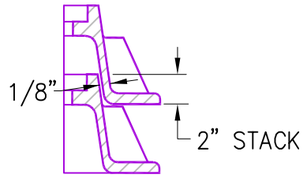
NOTES:

STANDARD SPECIFICATION SECTION 9-05.15(1) AND 9-06.14

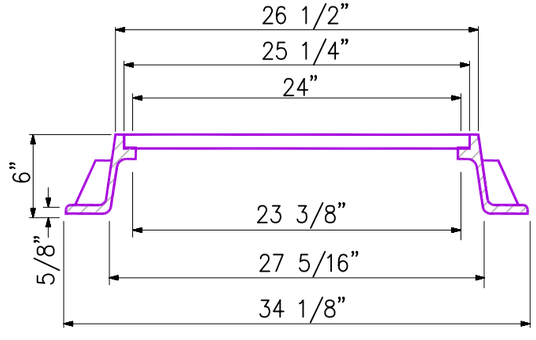
1. COVER SHALL BE AT MINIMUM 100 LBS
2. MINIMUM WEIGHT OF FRAME SHALL BE 134 LBS
3. PRODUCT SUPPLIES BY EAST JORDAN IRON WORKS, OR APPROVED EQUAL
4. CITY OF WENATCHEE LOGO REQUIRED
5. FRAME AND COVER SHALL BE H-20 LOADING RATED



SECTION A-A - DUCTILE IRON
NON LOCKING COVER
MINIMUM WEIGHT 100 LBS.



STACKING DETAIL



SECTION B-B
GRAY IRON OR DUCTILE IRON FRAME
MINIMUM WEIGHT 135 LBS.

STANDARD DETAIL
CIRCLE FRAME RING
AND COVER DETAIL

City of Wenatchee

REVISIONS	DATE	INITIAL
	10/03/18	DMN
	09/17/20	CAW

SCALE: AS SHOWN	DESIGNED	DRAWN: RLK	APPROVED BY
DATE DRAWN: 02/21/06	CHECKED: SK	DATE APPROVED	STANDARD SPECIFICATIONS

DETAIL NO.
S-150

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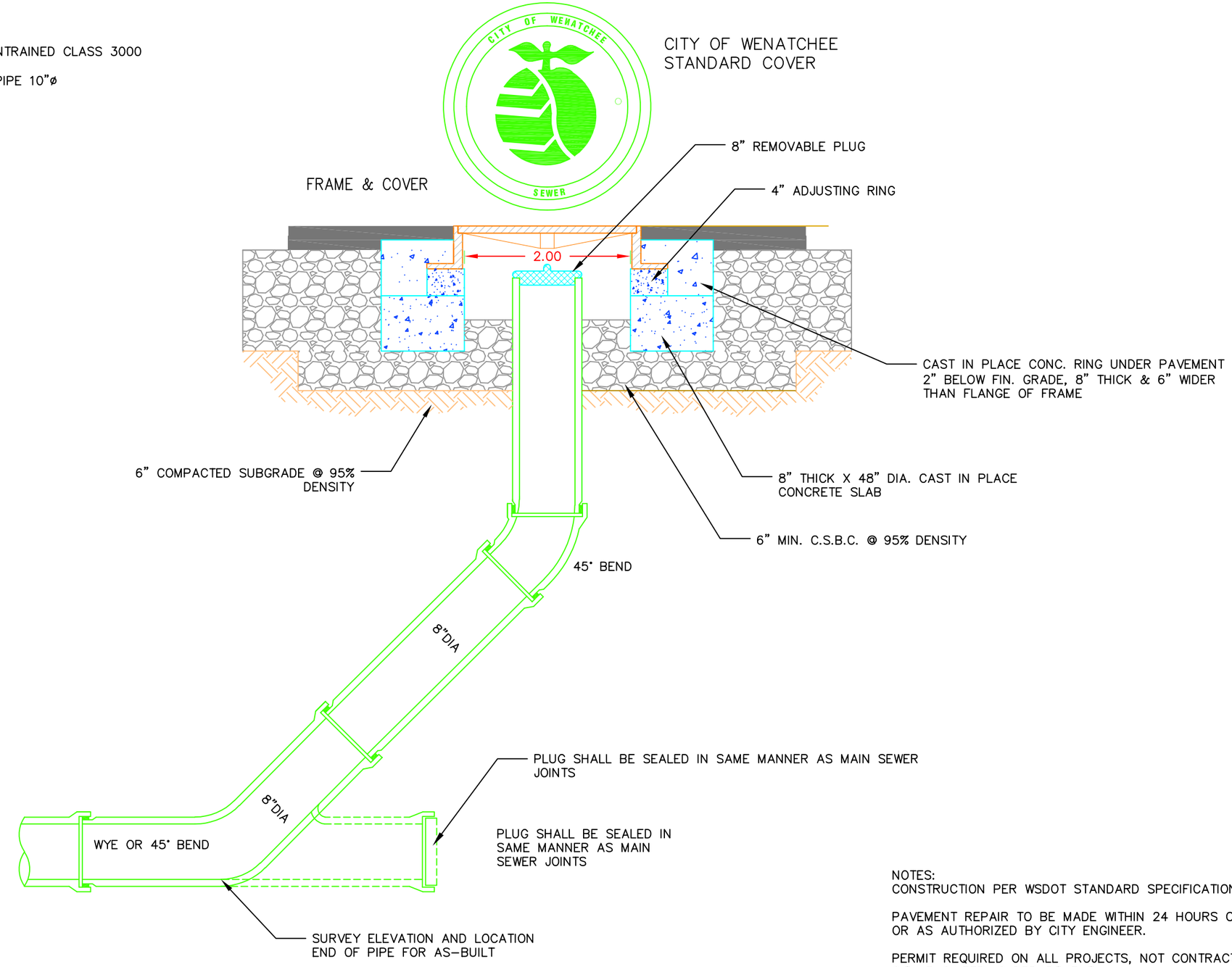
CONCRETE: AIR ENTRAINED CLASS 3000

MAXIMUM SEWER PIPE 10"ø

CITY OF WENATCHEE
STANDARD COVER



MAIN LINE CLEANOUT

N.T.S.

NOTES:
CONSTRUCTION PER WSDOT STANDARD SPECIFICATIONS.

PAVEMENT REPAIR TO BE MADE WITHIN 24 HOURS OF TRENCH BACKFILL OR AS AUTHORIZED BY CITY ENGINEER.

PERMIT REQUIRED ON ALL PROJECTS, NOT CONTRACT ADMINISTERED BY CITY ENGINEERING DEPARTMENT.

STANDARD DETAIL
SANITARY SEWER MAIN
CLEANOUT

City of Wenatchee

REVISIONS: DATE | INITIAL

DATE DRAWN: 3/23/2015
CHECKED: DMN
DATE APPROVED: 3/23/2015
SCALE: AS SHOWN N.A.
DRAWN: RDH
DESIGNED: DMN
APPROVED BY:
STANDARD SPECIFICATIONS: 7-05 MANHOLES 7-17 SANITARY SEWER

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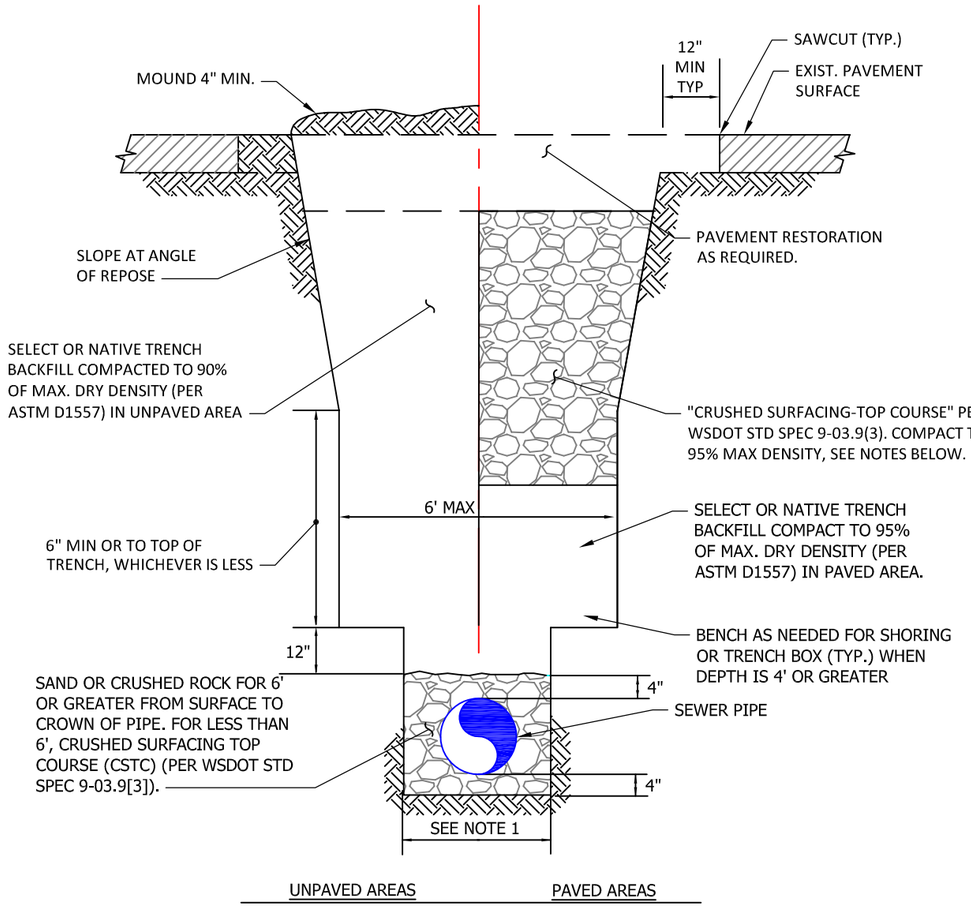

NOTES

1. TRENCH BACKFILL BELOW TOP 4 FEET MAY BE NATIVE MATERIALS OR AS REQUIRED BY THE SPECIFICATIONS, OR AS DIRECTED BY THE PUBLIC WORKS INSPECTOR.

2. MINIMUM TRENCH WIDTH SHALL BE PIPE ID + 24".

3. IN PAVED AREAS USE CRUSHED ROCK BACKFILL
   * FULL DEPTH OF TRENCH WHERE SEWER MAIN CROSSES PERPENDICULAR TO THE TRAVELED LANE OR DRIVEWAY.
   * TOP FOUR FEET WHERE SEWER MAIN RUNS PARALLEL TO THE TRAVELED LANE, UNLESS EXISTING MATERIAL IS DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL.

4. THE STREET SHALL BE OVERLAID WHEN THE ASPHALT ROADWAY IS LESS THAN 5YRS OLD FOR UTILITY CROSSINGS, THE STREET SHALL BE OVERLAID AT LEAST 25 FEET ON EACH SIDE OF THE TRENCH.

STANDARD DETAIL
SANITARY SEWER
TRENCH

City of Wenatchee

REVISIONS | DATE | INITIAL

DATE DRAWN 11/06/2020 | CHECKED | DATE APPROVED

SCALE: AS SHOWN | DRAWN CAW | APPROVED BY | STANDARD SPECIFICATIONS

DESIGNED

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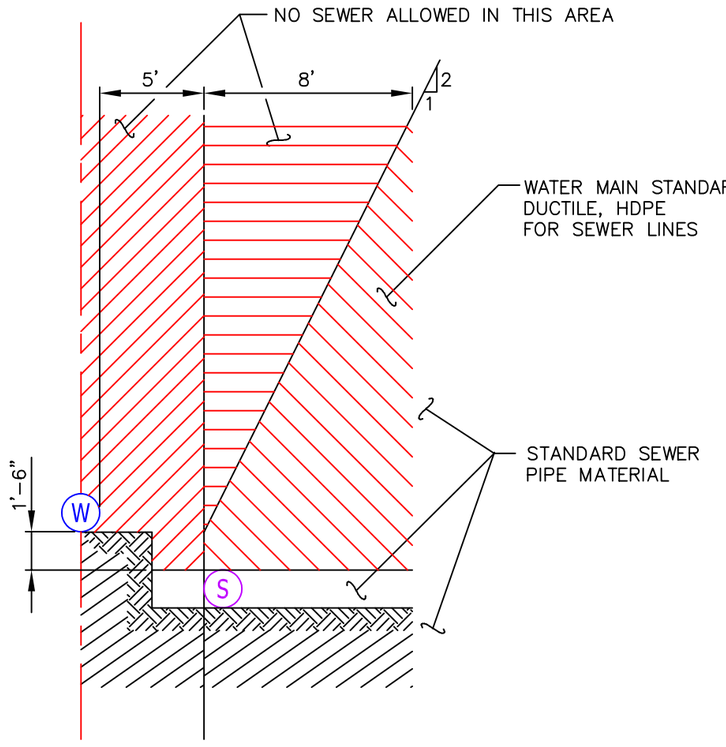

PARALLEL CONSTRUCTION

TABLE 1

WATER MAIN STANDARD PIPE MATERIAL

AWWA STANDARD			
TYPE OF PIPE	PIPE	JOINT	FITTINGS
DUCTILE IRON	C 1.52	C 111	C 110
CONCRETE CYLINDER	C 303		

NOTE:

1. TO BE USED WHEN 10' MINIMUM SEPARATION CANNOT BE OBTAINED.

STANDARD DETAIL
WATER AND SEWER
SPACING & CLEARANCE

City of Wenatchee

REVISIONS
DATE | INITIAL

DATE DRAWN: 12/04/2020
CHECKED
DATE APPROVED

SCALE: AS SHOWN
DRAWN: CAW
DESIGNED
APPROVED BY
STANDARD SPECIFICATIONS

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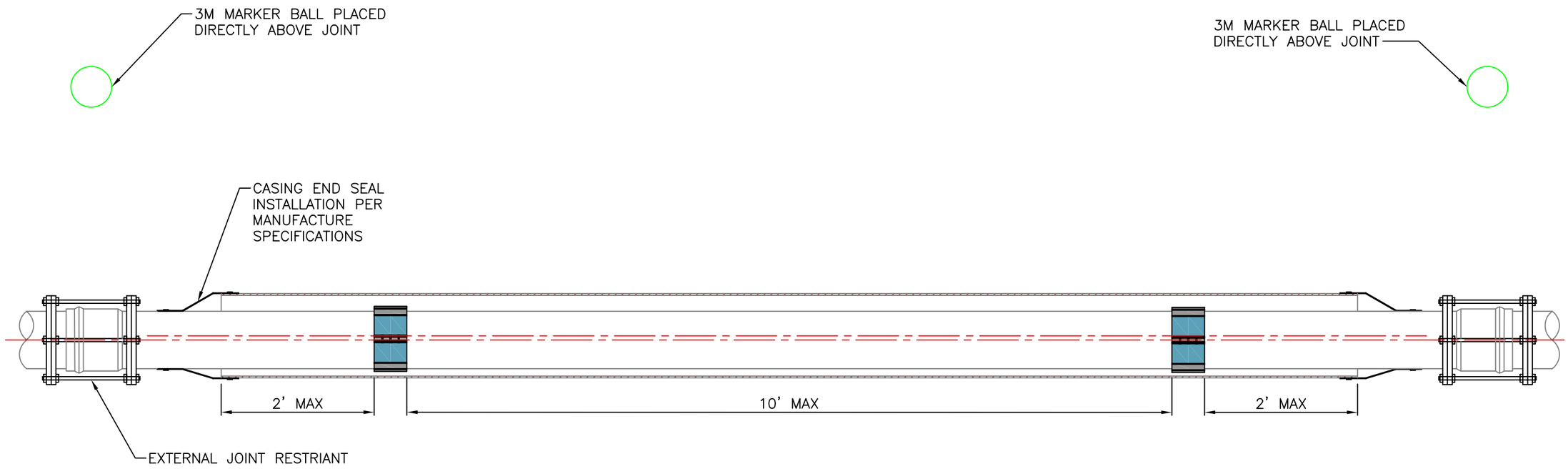
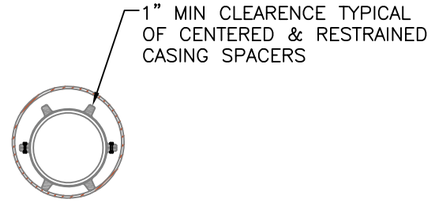


NOTES:

1. CARRIER PIPE SHALL BE USED AS REQUIRED WITHIN CITY RIGHT–OF–WAY.
2. ALL IRRIGATION PIPE LOCATED WITHIN CITY RIGHT–OF–WAY SHALL BE PVC C900 OR APPROVED EQUAL
3. ALL JOINTS THROUGHOUT CASING HALL BE RESTRAINED WITH FIELD LOC INTERNAL RESTRAINTS OR APPROVED EQUAL.
4. RESTRAIN CARRIER PIPE ONE JOINT BEYOND END SEALS.
5. MANUFACTURED CASING SPACER INTERVAL PER MANUFACTURER'S SPECIFICATIONS BUT NOT MORE THAN 10–FEET. MINIMUM 3 SPACERS PER PIPE LENGTH.
6. CASING SHALL BE WELDED STEEL OR DUCTILE IRON FOR INSTALLATIONS LESS THAN 3–FEET BELOW ROAD GRADE. CPE MAY BE SUBSTITUTED FOR AREAS OUTSIDE OF PAVED ROADWAY.
7. CASING PIPE LENGTHS SHALL BE OF THE LONGEST AVAILABLE LENGTH OF PIPE FROM MANUFACTURER
8. NON–WELDED STEEL CASING SHALL BE EXTERNALLY RESTRAINED AT ALL JOINTS.
9. 3M MARKER BALL TO BE PLACED DIRECTLY ABOVE JOINT RESTRAINT AT END OF PIPE.
10. DETECTABLE MARKER TAPE TO BE INSTALLED 12–INCHES TO 14–INCHES ABOVE PIPE CASING. COLOR SHOULD BE ACCORDING TO APWA UNIFORM COLOR CODE FOR MARKING UNDERGROUND UTILITIES. DETECTABLE MARKING TAPE SHALL CONSIST OF INERT POLYETHYLENE PLASTIC THAT IS IMPERVIOUS TO ALL KNOWN ALKALIS, ACIDS, CHEMICAL REAGENTS, AND SOLVENTS LIKELY TO BE ENCOUNTERED IN THE SOIL, WITH A METALLIC FOIL CORE TO PROVIDE FOR THE MOST POSITIVE DETECTION AND PIPELINE LOCATION. DETECTABLE MARKING TAPE SHALL BE NO LESS THAN 2–INCHES WIDE, TYPE OF BURIED UTILITY SHOULD BE CLEARLY MARKED CONTINUOUSLY ALONG THE LENGTH OF THE RIBBON WITH MINIMUM 1–1/2 INCH LETTERS IN THE FOLLOWING FORMAT: "CAUTION BURIED (UTILITY TYPE) LINE"



CASING SPACERS DETAIL
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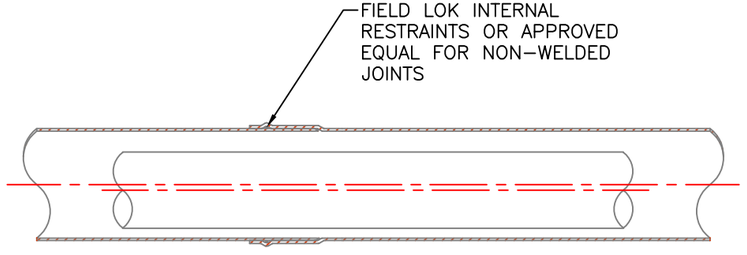

NON WELDED JOINT DETAIL
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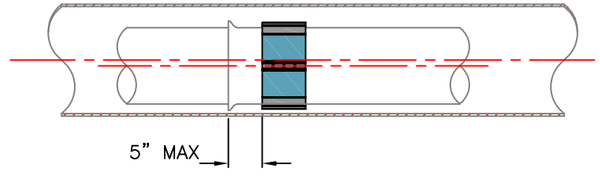

SPACER DISTANCE FROM BELL DETAIL
NTS

STANDARD DETAIL
CARRIER PIPE

City of Wenatchee

REVISIONS	DATE	INITIAL
	12/20/2017	JBV
	10/27/2020	CAW

DATE DRAWN	2/21/2006	DATE APPROVED	STANDARD SPECIFICATIONS
CHECKED	SK		
DRAWN	JB		
DESIGNED		APPROVED BY	
SCALE:	AS SHOWN		

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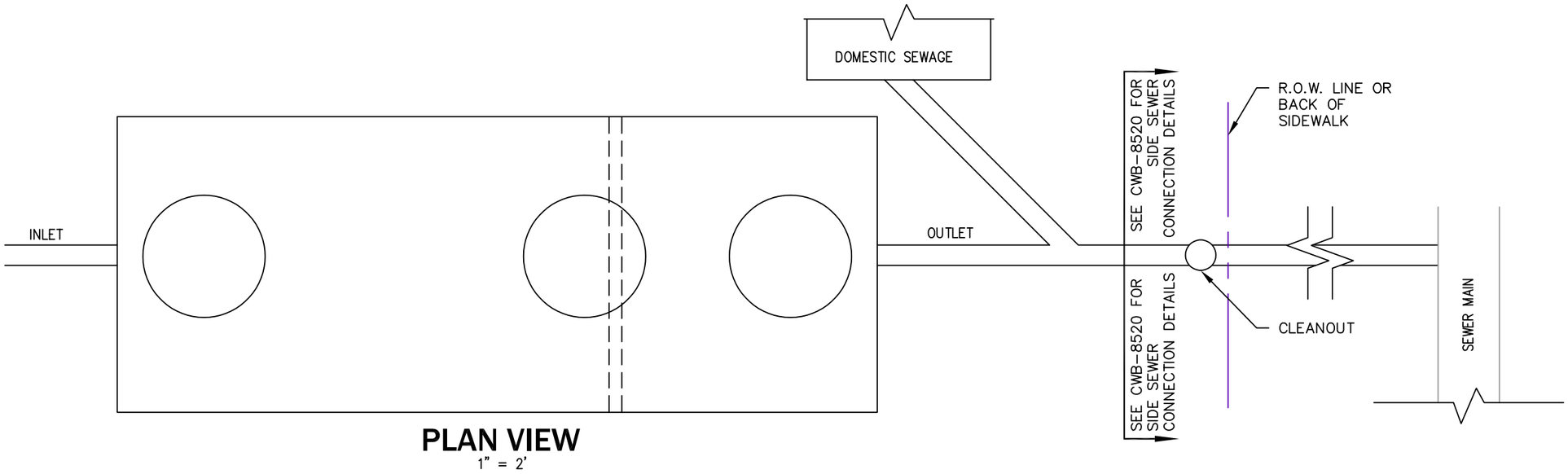
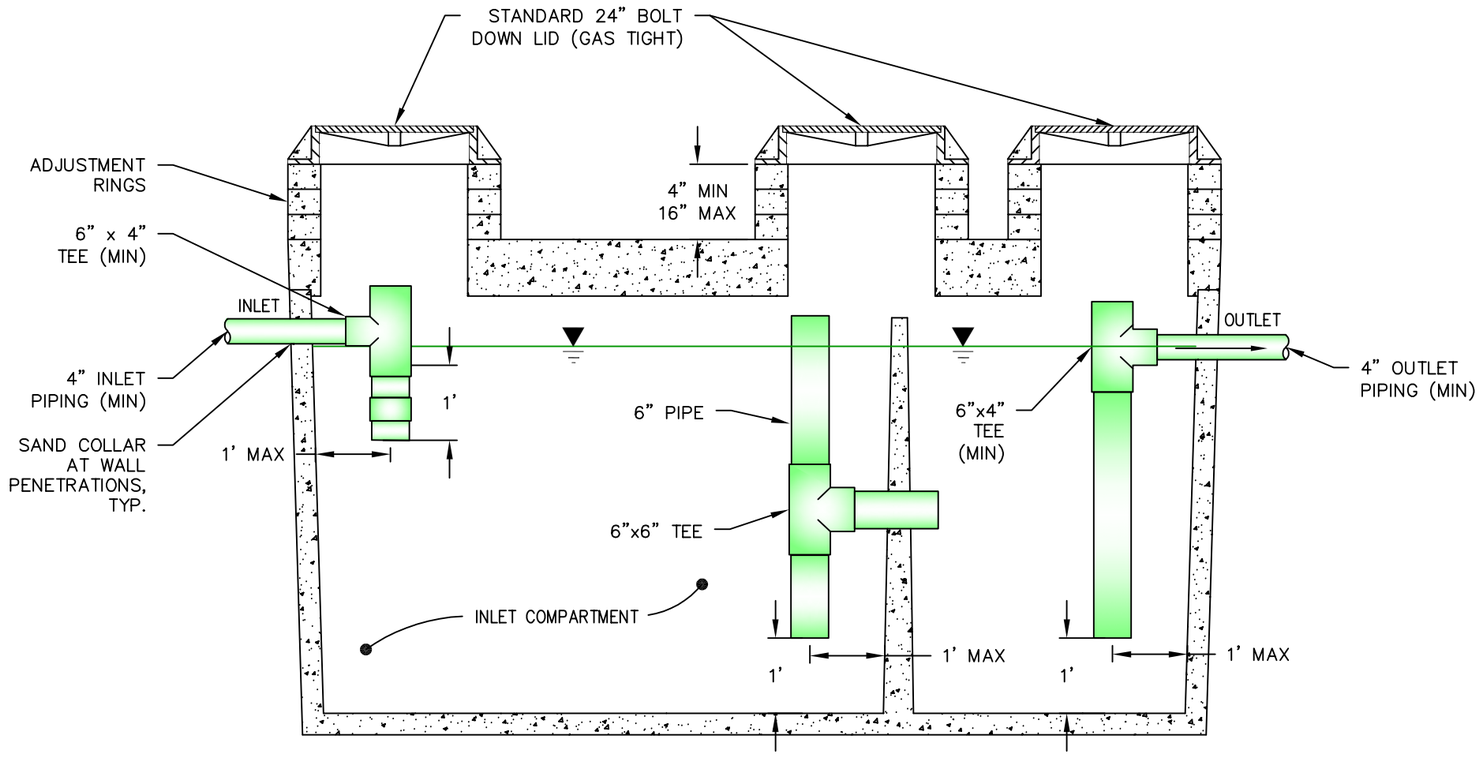


PLAN VIEW
1" = 2'



PROFILE VIEW
1" = 2'

GRAVITY GREASE INTERCEPTOR NOTES

1. ALL INTERCEPTORS SHALL BE SIZED ACCORDING TO THE MOST RECENT VERSION OF THE UNIFORM PLUMBING CODE, 1014.3, OR OTHER ACCEPTABLE SIZING METHOD.
2. COMMERCIAL FOOD WASTE DISPOSALS AND DISHWASHERS MUST BE CONNECTED TO THE INTERCEPTOR, THE SIZING SHALL ACCOUNT FOR THESE FIXTURES.
3. INTERCEPTOR SHALL BE A MINIMUM SIZE OF 500 GALLONS OF LIQUID CAPACITY. THE INLET COMPARTMENT SHALL HAVE 2/3 THE TOTAL CAPACITY OF THE INTERCEPTOR.
4. SANITARY SEWER SHALL BE CONVEYED BY A SEPARATE LINE DOWNSTREAM OF THE INTERCEPTOR. ONLY GREY-WATER SHALL BE ROUTED THROUGH THE INTERCEPTOR.
5. PLACE INTERCEPTOR IN LOCATION THAT ALLOWS FOR PUMP TRUCK MAINTENANCE ACCESS.
6. INTERCEPTOR UNIT SHALL BE RATED FOR H20-44 AASHTO LOADING. (CERTIFIED)
7. A CENTER MANHOLE IS REQUIRED AND SHALL HAVE STANDARD 24" BOLT DOWN LID.
8. POSITION ADJUSTMENT RINGS TO ALLOW ACCESS AND ENTRY.
9. INTERCEPTOR SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
10. CENTER MANHOLE MUST BE CENTERED OVER THE CROSSOVER TEE AND BAFFLE, THE CROSSOVER TEE CAN BE OFFSET FROM CENTER.
11. GROUT INLET, OUTLET AND CROSSOVER TEES.
12. ALTERNATE STYLES OR BRANDS MAY BE ALLOWED WITH DIRECTOR'S WRITTEN APPROVAL.

STANDARD DETAIL
GRAVITY GREASE INTERCEPTOR

City of Wenatchee

REVISIONS	INITIAL
DATE	12/21/2020 CAW

DATE DRAWN | CHECKED | DATE APPROVED

SCALE: AS SHOWN / NA | DESIGNED | DRAWN | APPROVED BY | STANDARD SPECIFICATIONS

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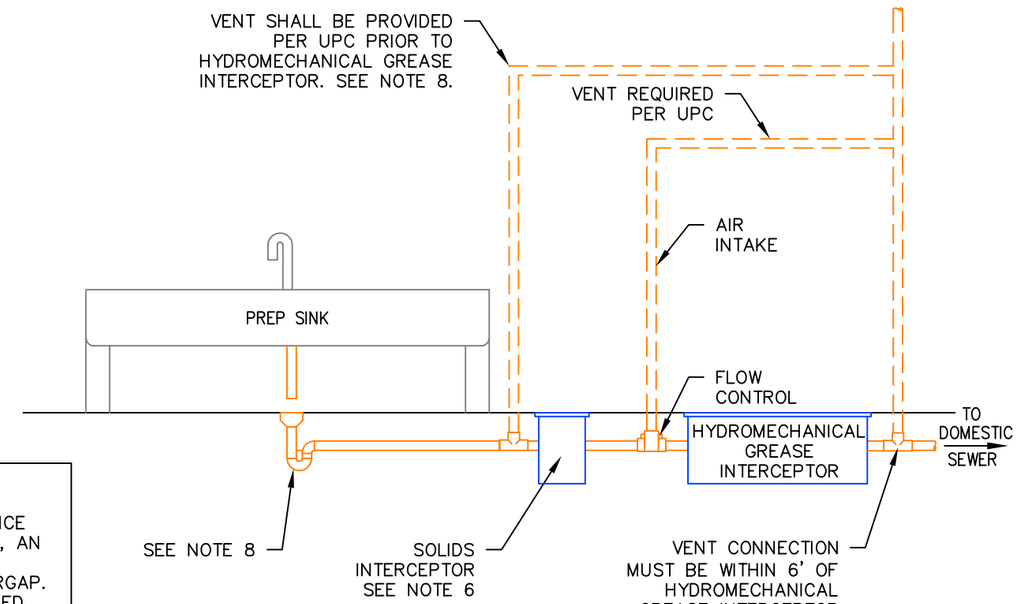
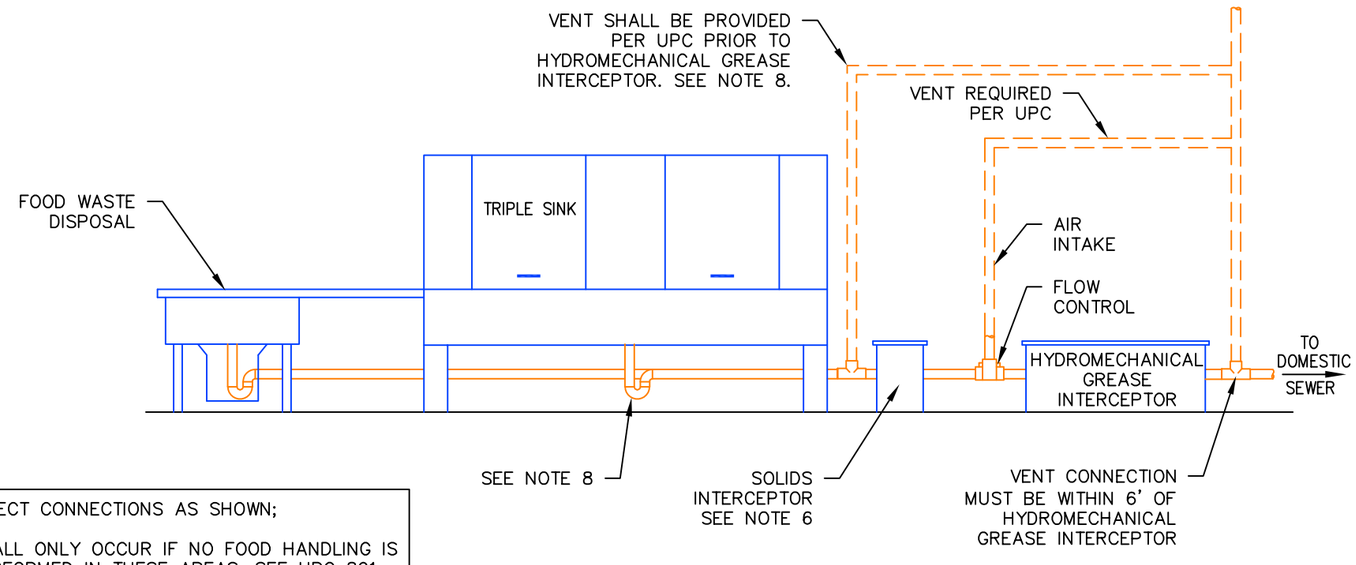


INDIRECT CONNECTIONS AS SHOWN;

IF ANY FOOD HANDLING OR BEVERAGE ICE SERVICE IS PROVIDED AT THE FIXTURES, AN INDIRECT CONNECTION IS REQUIRED. INDIRECT CONNECTIONS REQUIRE AN AIRGAP. SEE UPC CHAPTER 8 FOR MORE DETAILED INFORMATION.

INDIRECT CONNECTION



DIRECT CONNECTIONS AS SHOWN;

SHALL ONLY OCCUR IF NO FOOD HANDLING IS PERFORMED IN THESE AREAS. SEE UPC 801.

DIRECT CONNECTION

HYDROMECHANICAL GREASE INTERCEPTOR (HGI) NOTES

1. HYDROMECHANICAL GREASE INTERCEPTORS INSTALLED IN LIEU OF EXTERNAL GRAVITY GREASE INTERCEPTORS ARE ONLY ALLOWED WITH THE WRITTEN PERMISSION OF THE PUBLIC WORKS DIRECTOR.
2. MINIMUM REQUIRED FLOW RATE OF 20 GALLONS PER MINUTE AND GREASE RETENTION CAPACITY OF 40 POUNDS.
3. ALL INTERCEPTORS WILL BE APPROPRIATELY SIZED TO THE UNIFORM PLUMBING CODE OR OTHER ACCEPTABLE SIZING METHOD.
4. INSTALL THE INTERCEPTOR IN AN ACCESSIBLE LOCATION FOR EASE OF BOTH MAINTENANCE AND INSPECTIONS. THE TOP CLEARANCE SHALL PROVIDE TWO TIMES THE PHYSICAL DEPTH.
5. FOOD WASTE DISPOSALS MUST BE CONNECTED TO THE INTERCEPTOR.
6. IF A FOOD WASTE DISPOSAL IS CONNECTED, THEN THE INTERCEPTOR MUST HAVE A SOLIDS INTERCEPTOR INSTALLED PRIOR TO THE FLOW CONTROL DEVICE.
7. IF A SOLIDS INTERCEPTOR IS NOT REQUIRED, THEN A WATER SEAL MUST BE PROVIDED BETWEEN THE FIXTURES AND INTERCEPTOR.
8. EACH PLUMBING FIXTURE CONNECTED TO THE INTERCEPTOR SHALL BE INDIVIDUALLY TRAPPED AND VENTED IN AN APPROVED MANNER. VENTING AND FLOW CONTROL DEVICES ARE TO BE LOCATED IN A READILY ACCESSIBLE AND VISIBLE PLACE.
9. ALL WASTE SHALL ENTER THE INTERCEPTOR THROUGH AN INLET PIPE ONLY.
10. "GRAY WATER ONLY", DOMESTIC (SANITARY) SEWER SHALL BE CONVEYED BY A SEPARATE LINE DOWNSTREAM OF THE INTERCEPTOR.
11. DISHWASHER WASTE MUST NOT PASS THROUGH THE INTERCEPTOR.
12. NOT MORE THAN FOUR (4) SEPARATE FIXTURES SHALL BE CONNECTED TO OR DISCHARGE INTO ANY ONE INTERCEPTOR.

STANDARD DETAIL HYDROMECHANICAL GREASE INTERCEPTOR

City of Wenatchee

REVISIONS	
INITIAL	CAW
DATE	12/21/2020

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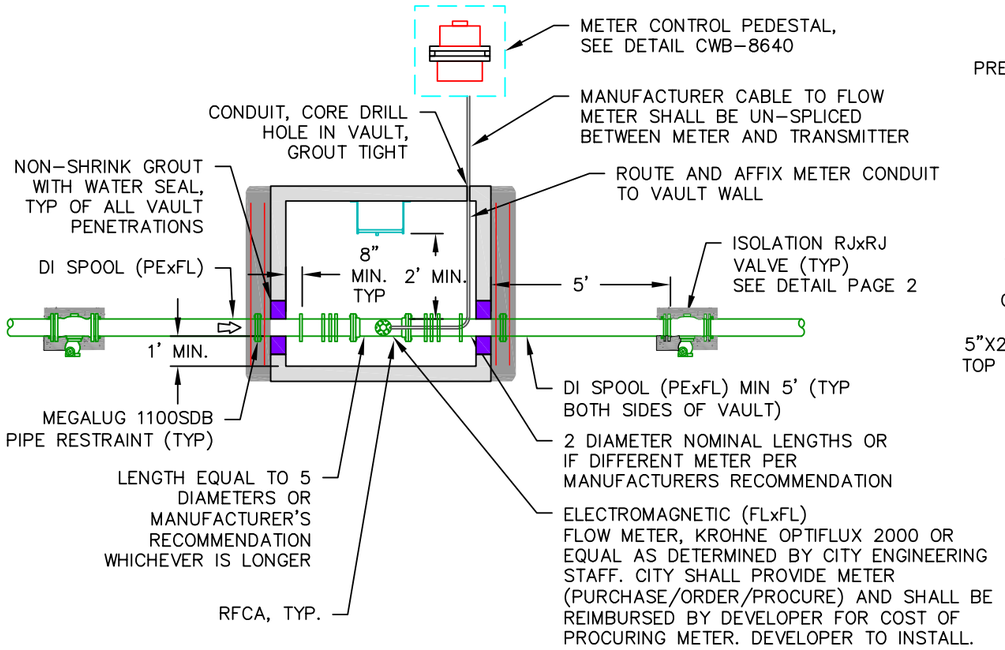
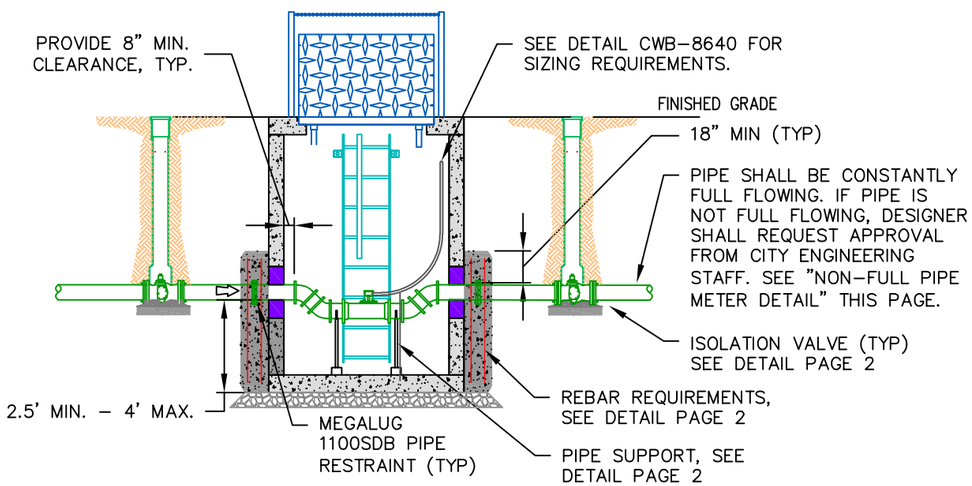
ELECTROMAGNETIC METER NOTES	
MATERIAL – PIPELINE	PIPING SHALL BE DUCTILE IRON
COATINGS – PIPELINE	EXTERNAL PIPE COATINGS – PIPE SHALL BE COATED WITH:PRIMER, SERIES 1 OMNITHANE (2.5 TO 3.5 MiL DFT); INTERMEDIATE COAT, SERIES N69 HI–BUILD EPOXOLINE II (6 TO 8 MiLS DFT); FINISH COAT, SERIES 73 ENDURA–SHIELD (3 TO 5 MiLS DFT). PIPE OUTSIDE VAULT SHALL BE ASPHALTIC COATED FOR BURY. INTERNAL PIPE COATINGS – CEMENT MORTAR LINED FROM ISOLATION VALVE TO ISOLATION VALVE.

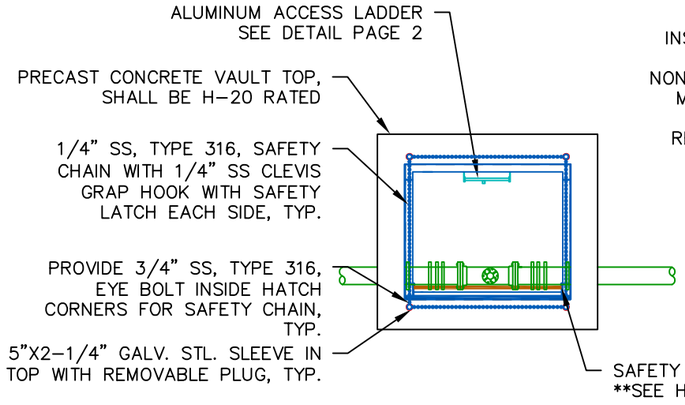
METER VAULT SIZING			
METER SIZE	INTERIOR VAULT (MIN) (WIDTH x LENGTH)	HATCH (MIN)	LEAF
3"	5'–6" x 6'–4"	36"x48"	1
4"	5'–6" x 6'–4"	36"x48"	1
6"	6'–4" x 6'–4"	48"x60"	2
8"	6'–4" x 6'–4"	48"x60"	2



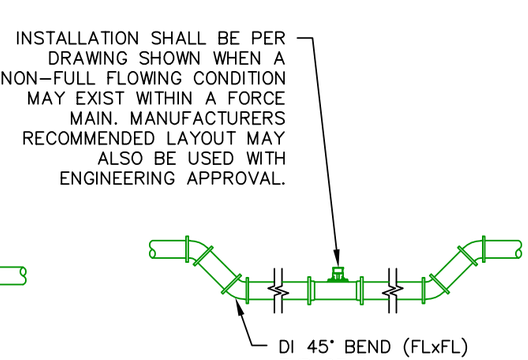
ELECTROMAGNETIC METER PLAN



ELECTROMAGNETIC METER ELEVATION



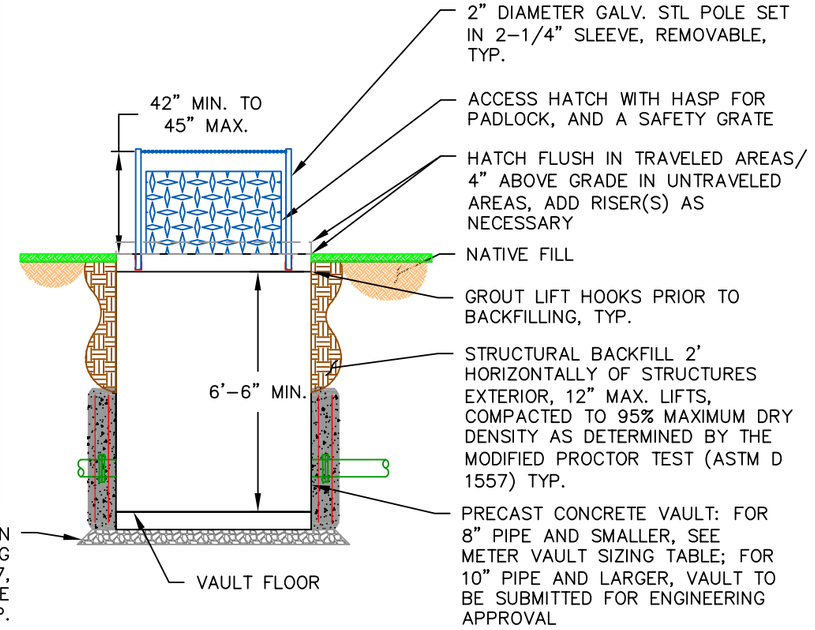
METER VAULT STRUCTURAL PLAN



NON-FULL PIPE METER DETAIL

METER VAULT ACCESS HATCH	
CLEAR OPENING	SEE TABLE
NO. OF LEAVES	SEE TABLE
RATING	H–20
MOUNTING*	ANCHOR
SAFETY GRATING**	YES
SAFETY CHAIN***	YES
GASKET	ODOR TIGHT
DRAIN	NO
SPRING ASSIST	YES

ACCESS HATCH NOTES:
* ACCESS HATCH OVER METER VAULT SHALL BE MOUNTED USING STAINLESS STEEL BOLTS AS SHOWN ON THIS PLAN.
**ACCESS HATCH SHALL HAVE REMOVABLE SAFETY GRATING COVER BELOW ACCESS HATCH LID.
*** SAFETY CHAINS SHALL BE PROVIDED ON ACCESS HATCHES AS DETAILED FOR EACH HATCH ON THIS SHEET.
****ACCESS HATCH TO HAVE HASP FOR PADLOCK



METER VAULT STRUCTURAL ELEVATION

STANDARD DETAIL
ELECTROMAGNETIC SEWAGE FLOW METER

City of Wenatchee

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DATE	12/21/2020 CAW
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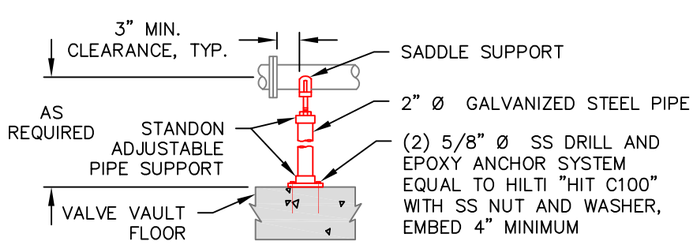
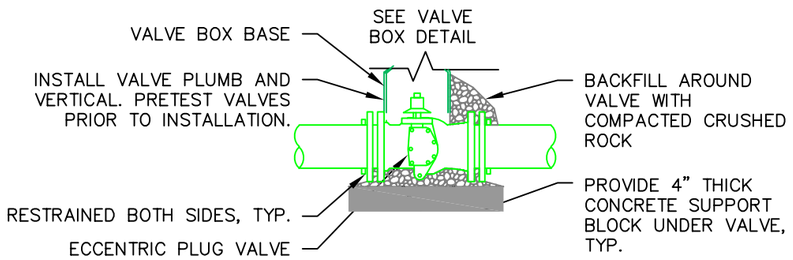
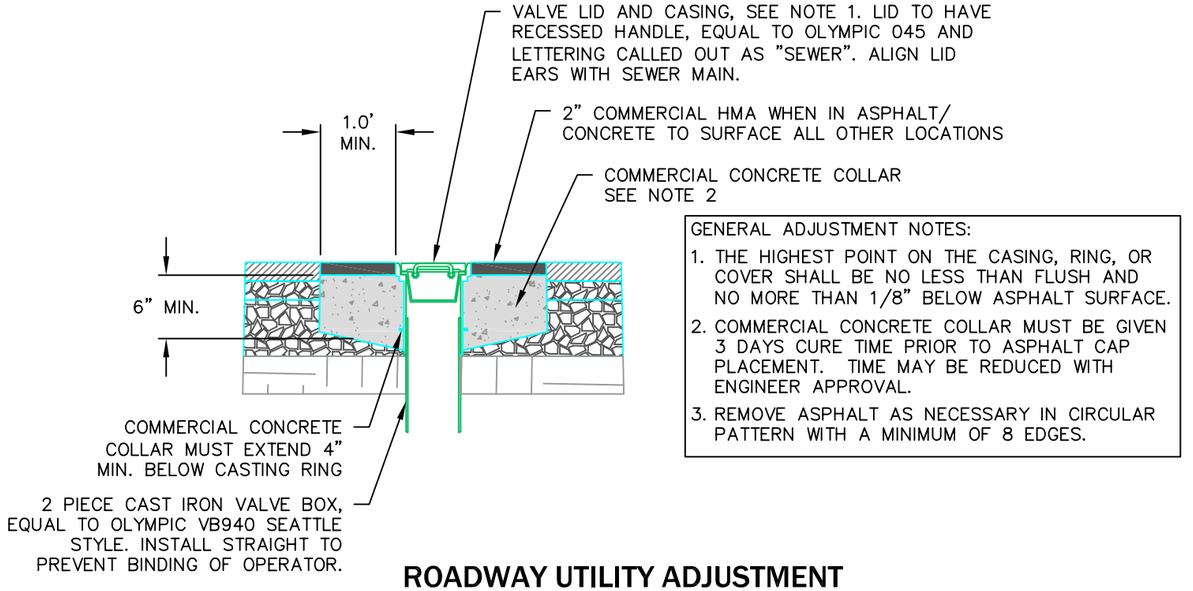


PIPE SUPPORT DETAIL



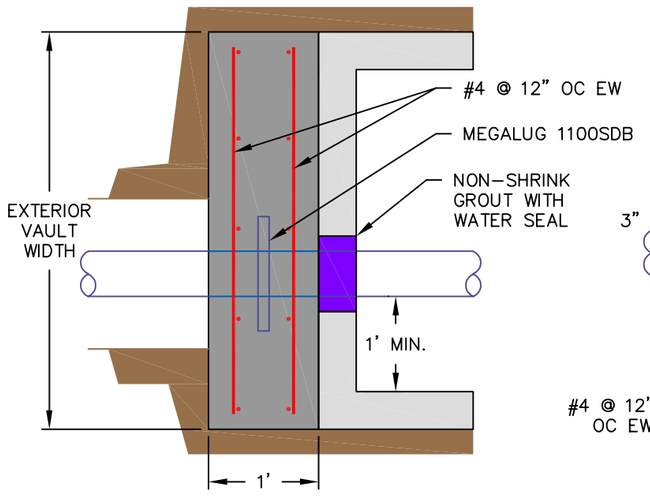
ISOLATION VALVE



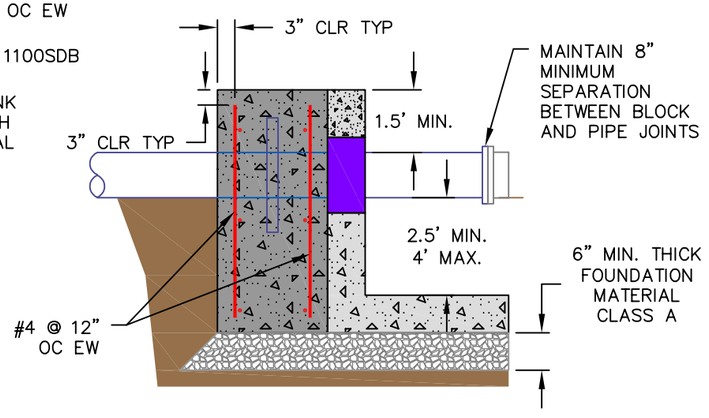
GENERAL ADJUSTMENT NOTES:

1. THE HIGHEST POINT ON THE CASING, RING, OR COVER SHALL BE NO LESS THAN FLUSH AND NO MORE THAN 1/8" BELOW ASPHALT SURFACE.
2. COMMERCIAL CONCRETE COLLAR MUST BE GIVEN 3 DAYS CURE TIME PRIOR TO ASPHALT CAP PLACEMENT. TIME MAY BE REDUCED WITH ENGINEER APPROVAL.
3. REMOVE ASPHALT AS NECESSARY IN CIRCULAR PATTERN WITH A MINIMUM OF 8 EDGES.

ROADWAY UTILITY ADJUSTMENT



PLAN

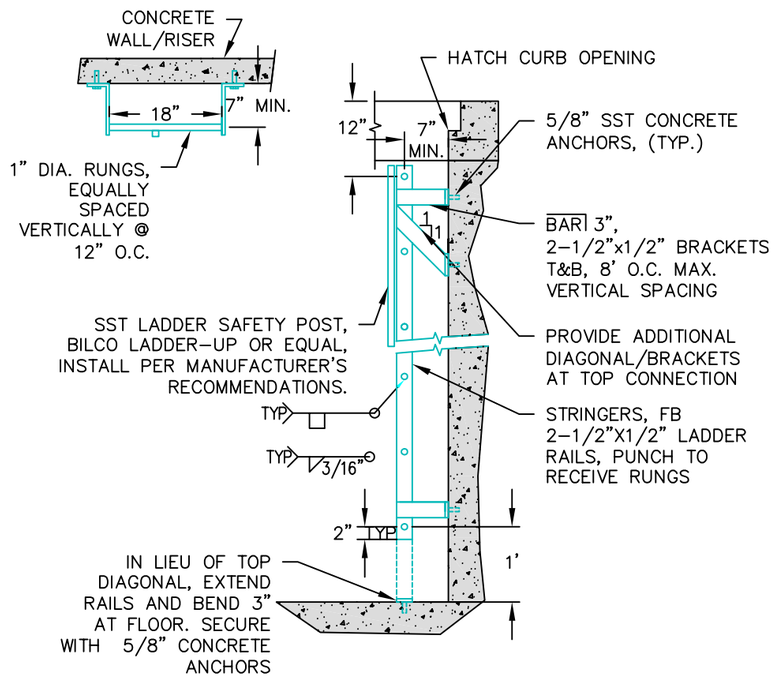


ELEVATION

PIPE RESTRAINT

NOTES:

1. LADDERS SHALL BE ALUMINUM.
2. LADDER MUST MEET CONSTRUCTION REQUIREMENTS OF ANSI A14.3



LADDER DETAIL FOR ELECTROMAGNETIC METER

STANDARD DETAIL
ELECTROMAGNETIC SEWAGE FLOW METER DETAILS

City of Wenatchee

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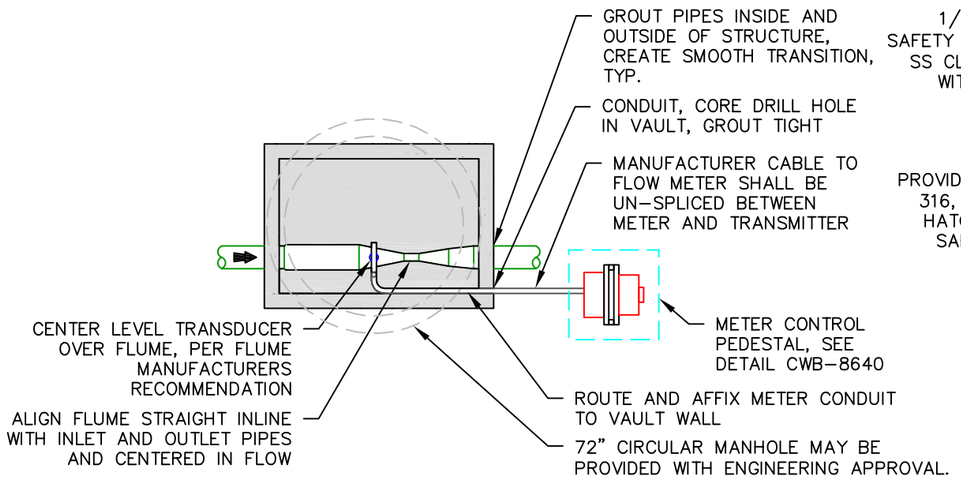
FLUME SIZING				
GPM	PARSHALL FLUME SIZE	VAULT SIZE	HATCH (MIN)	LEAF
3–73	2" – NOT TO BE USED WITH DOMESTIC SEWAGE	H2 PRE–CAST #577 OR EQUAL	48"x60"	2
13–250	3"	H2 PRE–CAST #577 OR EQUAL	48"x60"	2
>250	CONSULT WITH CITY OF WENATCHEE ENGINEERING STAFF	–		

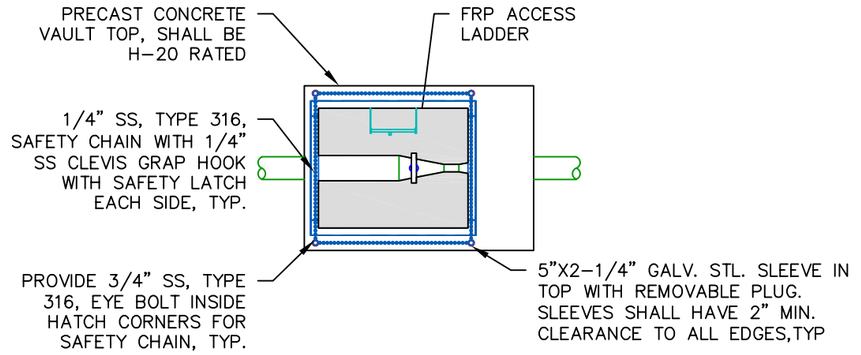
PARSHALL FLUME METER NOTES	
1	CONTRACTOR SHALL TEST FLUME TO VERIFY CORRECT FLOW READING TO THE SATISFACTION OF CITY.

METER VAULT ACCESS HATCH	
CLEAR OPENING	SEE TABLE
NO. OF LEAVES	SEE TABLE
RATING	H–20
MOUNTING*	ANCHOR
SAFETY GRATING**	YES
SAFETY CHAIN***	YES
GASKET	ODOR TIGHT
DRAIN	NO
SPRING ASSIST	YES

ACCESS HATCH NOTES:
* ACCESS HATCH OVER METER VAULT SHALL BE MOUNTED USING STAINLESS STEEL BOLTS AS SHOWN ON THIS PLAN.
**ACCESS HATCH SHALL HAVE REMOVABLE SAFETY GRATING COVER BELOW ACCESS HATCH LID.
*** SAFETY CHAINS SHALL BE PROVIDED ON ACCESS HATCHES AS DETAILED FOR EACH HATCH ON THIS SHEET.
****ACCESS HATCH TO HAVE HASP FOR PADLOCK

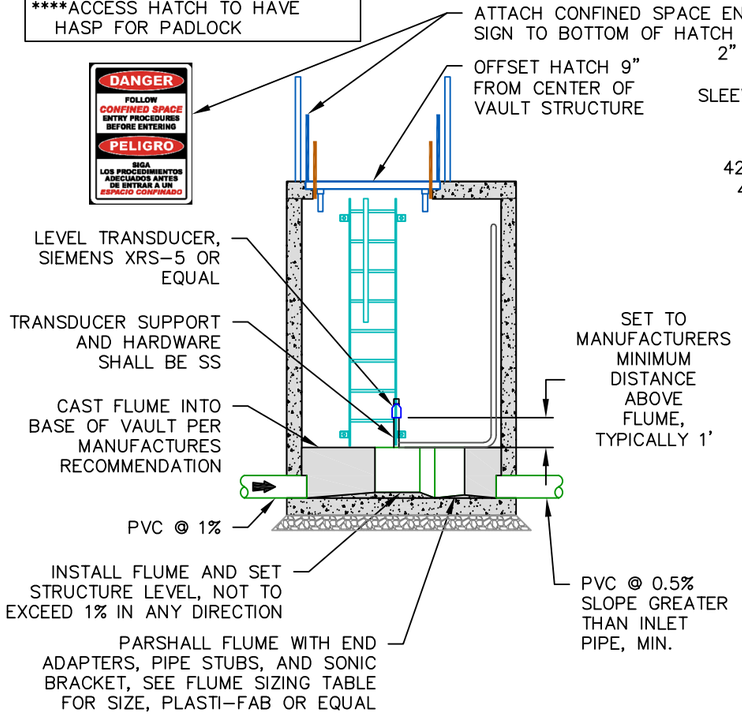


PARSHALL FLUME METER PLAN

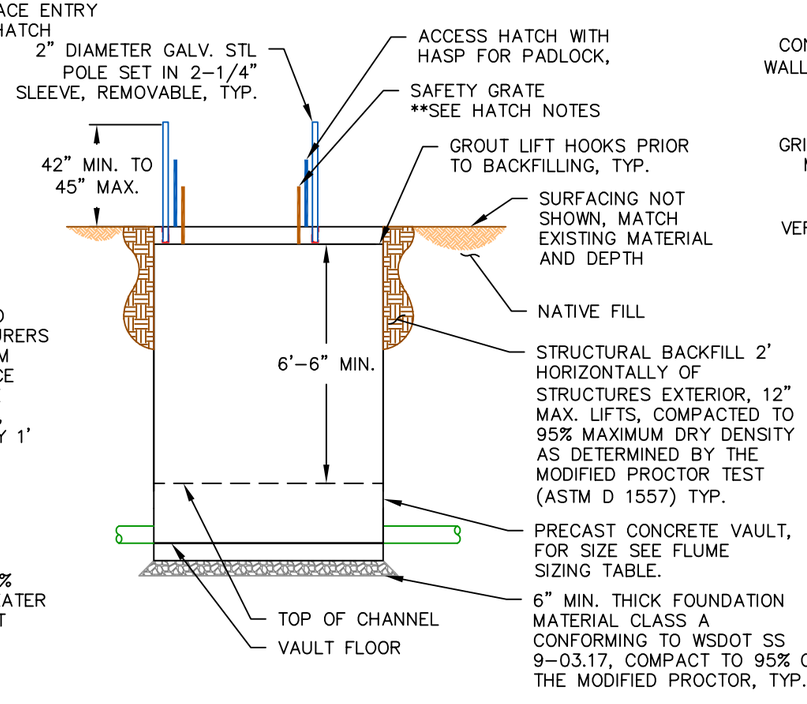


METER VAULT STRUCTURAL PLAN

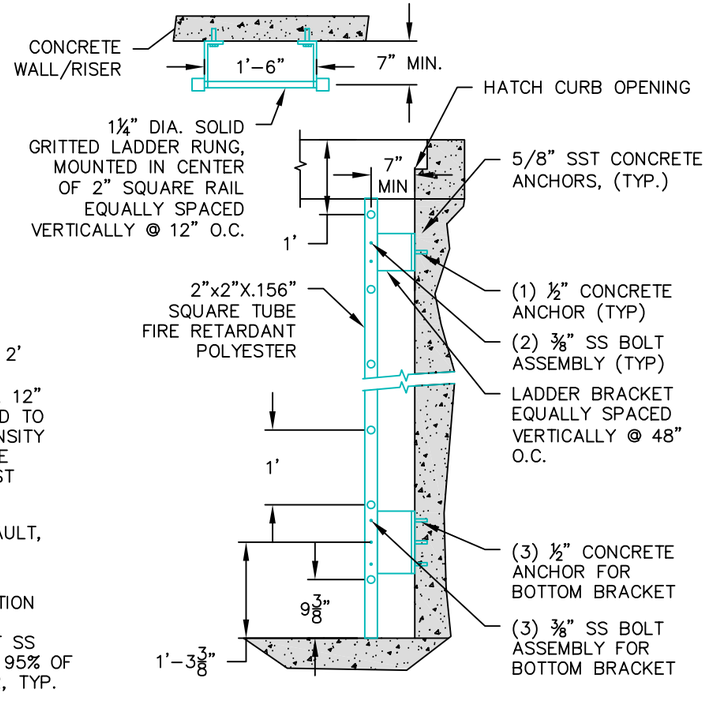
LADDER NOTES:
1. LADDERS SHALL BE FIBER REINFORCED PLASTIC (FRP).
2. LADDER MUST MEET CONSTRUCTION REQUIREMENTS OF ANSI A14.3
3. LADDER BRACKET SHALL BE SERIES 625 VINYL–ESTER.
4. ALL BOLT ASSEMBLIES AND GRATING HOLD DOWNS SHALL BE SERIES 316 STAINLESS STEEL.
5. CONTRACTOR TO FIELD VERIFY ALL DIMENSION PRIOR TO FABRICATION.



PARSHALL FLUME METER ELEVATION



METER VAULT STRUCTURAL ELEVATION



LADDER DETAIL FOR PARSHALL FLUME METER

STANDARD DETAIL
PARSHALL FLUME

City of Wenatchee

REVISIONS	INITIAL
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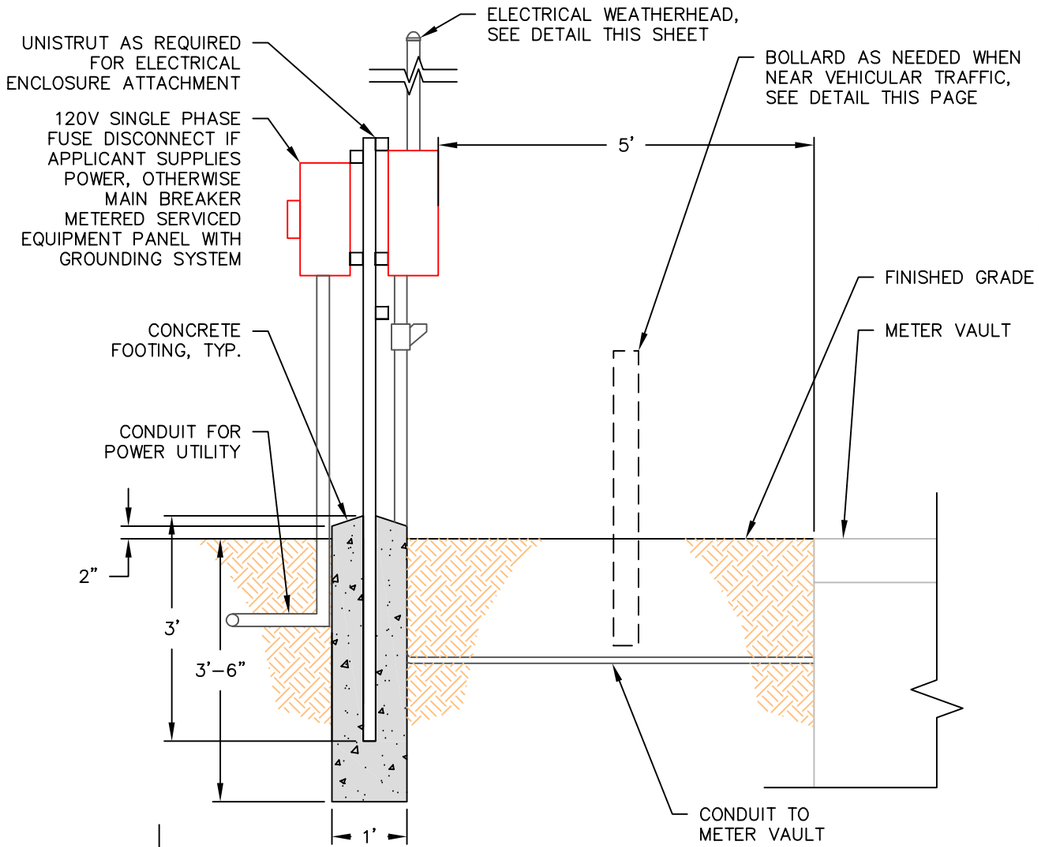
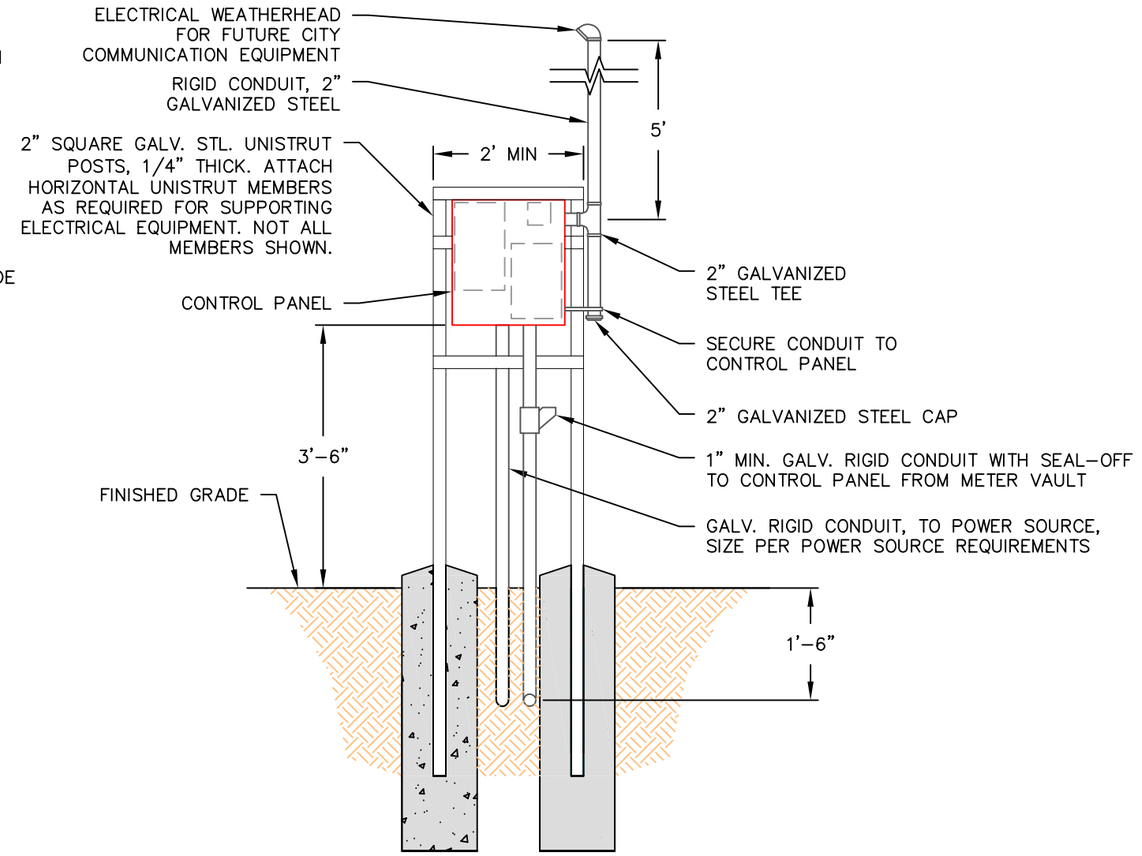
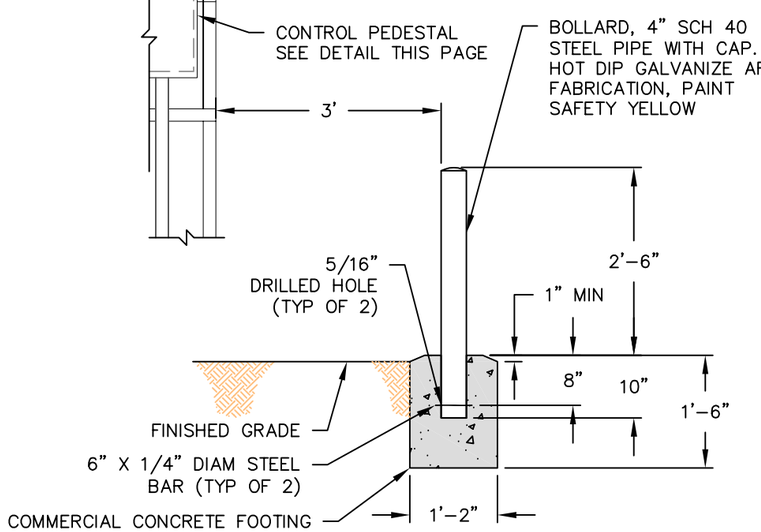


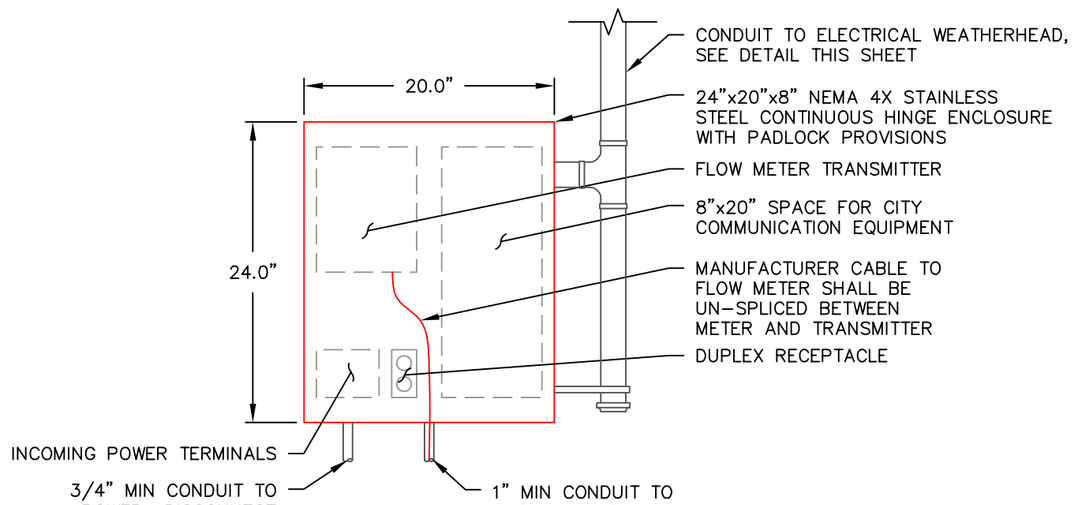
CONTROL PEDESTAL SIDE ELEVATION



CONTROL PEDESTAL FRONT ELEVATION



CONTROL PANEL BOLLARD



CONTROL PANEL LAYOUT

STANDARD DETAIL
SEWER CONTROL PEDESTAL

City of Wenatchee

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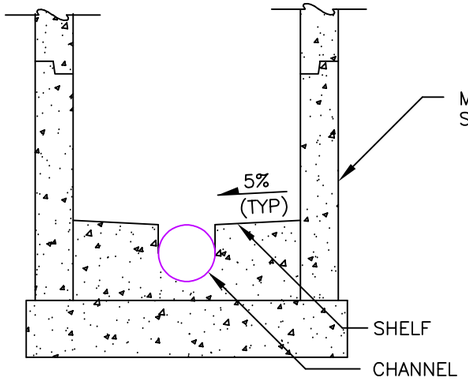
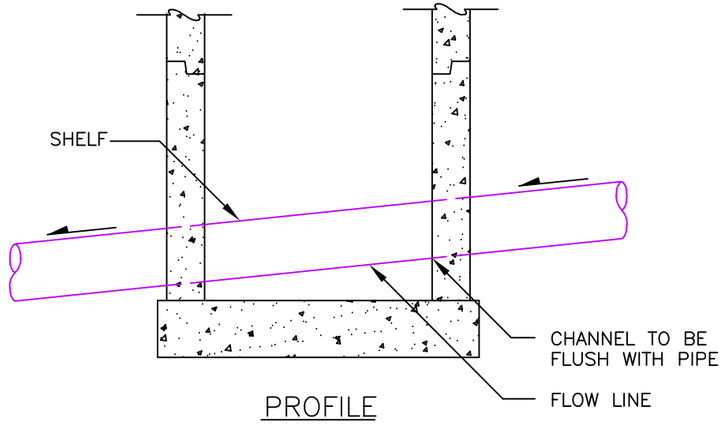
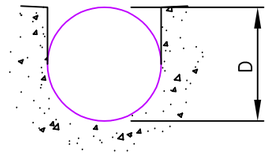


CROSS SECTION



PROFILE



CHANNEL SECTION

NOTES:

1. DEPTH OF CHANNEL MUST BE SAME AS PIPE DIAMETER.

2. MINIMUM 0.1' DROP ACROSS CHANNEL; MAXIMUM 1.0' DROP ACROSS CHANNEL.

STANDARD DETAIL
SEWER MANHOLE MAIN CHANNEL & SHELF

City of Wenatchee

REVISIONS | DATE | INITIAL

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