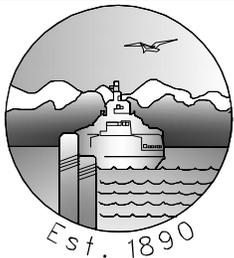


NOTES:

1. SEWER PIPE SHALL BE SDR-35 AND JOINTS SHALL BE GASKETED.
2. PIPE SLOPE TO BE 2% MIN AND UP TO 50% MAX.
3. SEWER CLEANOUT COVER TO BE EAST JORDAN IRON WORKS PRODUCT #00366102 STAR PIPE COSP48L OR APPROVED EQUAL.
4. LEVELING COLLAR SHALL BE CONSTRUCTED AS FOLLOWS:
 - IN ROADWAYS PER COE STD DWG GU-424
 - IN SIDEWALK/LANDSCAPED AREAS, EITHER 24"x24"x6" DEEP CONCRETE COLLAR OR 24" DIAMETER x 6" DEEP CONCRETE COLLAR



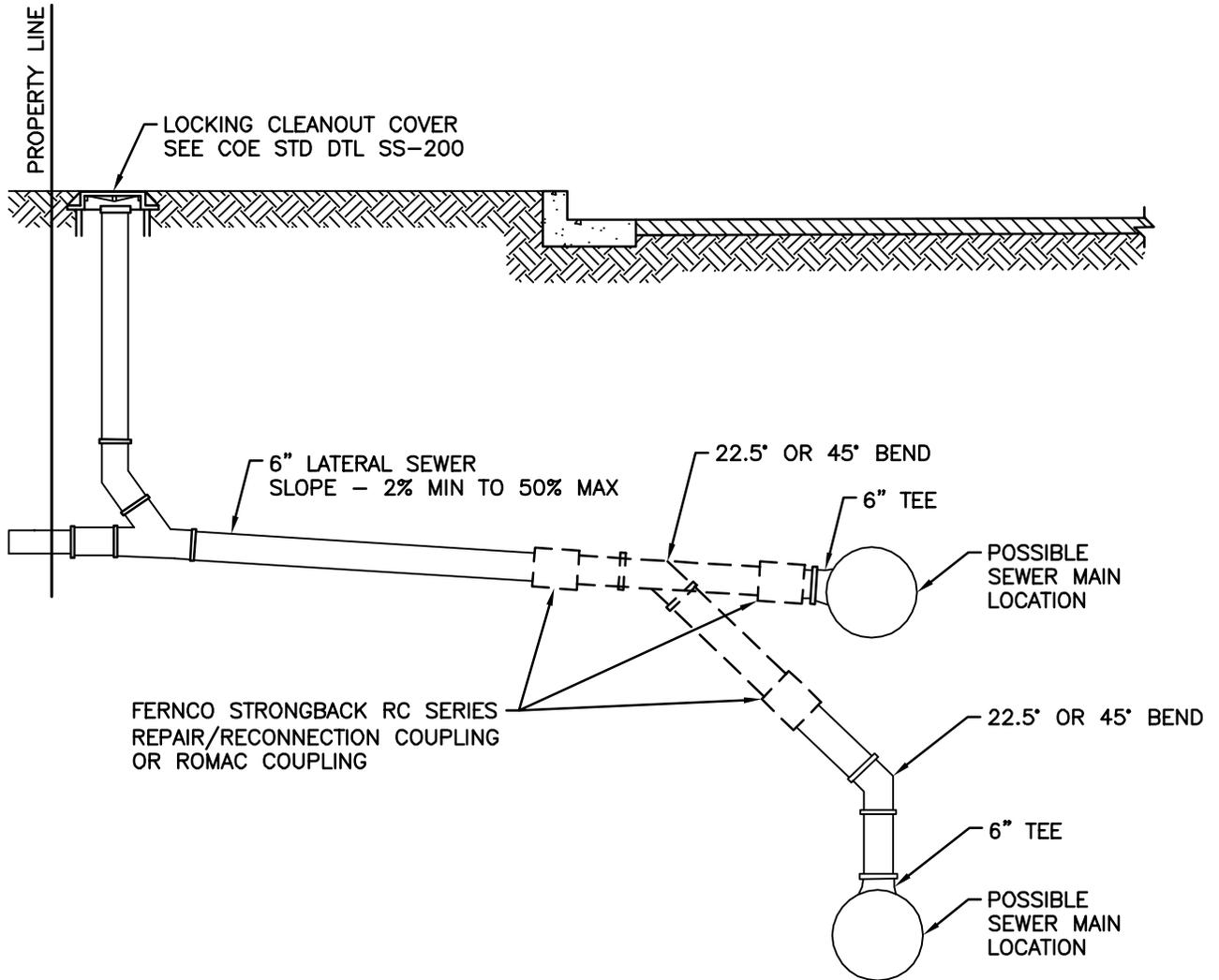
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

SEWER CLEANOUT DETAILS

APPROVED BY: **R. ENGLISH**

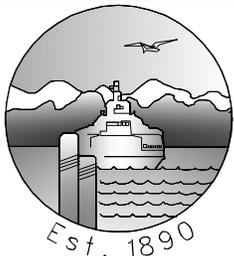
REVISION DATE
JANUARY 2018

STANDARD
DETAIL
SS-200



NOTES:

1. IF SEWER LATERAL IS DAMAGED OR HAS TO BE RELOCATED DURING CONSTRUCTION, RELOCATE/REPAIR SEWER PIPE AND RECONNECT USING A FERNCO RC SERIES STRONGBACK COUPLING OR ROMAC COUPLING.
2. A CONCRETE/PVC ADAPTER SHALL BE USED TO CONNECT PVC TO CONCRETE.
3. INSPECTION OF WORK IS REQUIRED AND MUST BE APPROVED BY THE ENGINEERING DEPARTMENT.
4. BORING OF SERVICES WITHIN RIGHT OF WAY IS NOT ALLOWED.
5. SEWER PIPE SHALL BE SDR-35 AND JOINTS SHALL BE GASKETED.



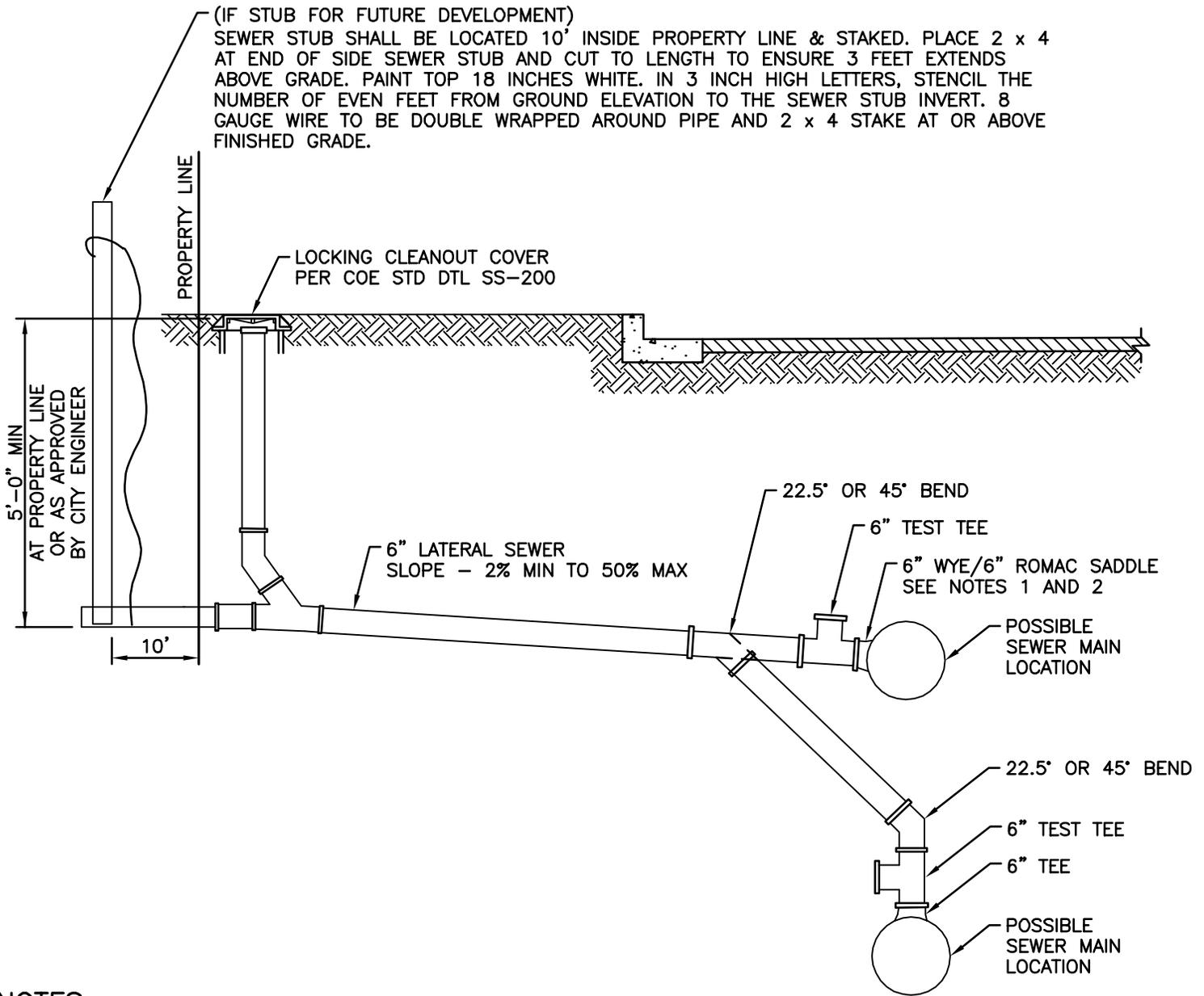
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

**SIDE SEWER
RELOCATION/REPAIR**

APPROVED BY: **R. ENGLISH**

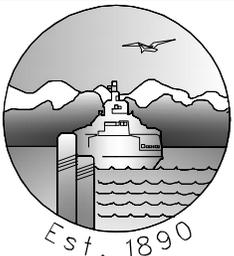
REVISION DATE
JANUARY 2018

STANDARD
DETAIL
SS-201



NOTES:

1. WHEN TAPPING INTO EXISTING MAIN A ROMAC STYLE CB SADDLE SHALL BE USED. PLACEMENT OF TEE SHALL DEPEND ON DEPTH OF SEWER MAIN. AS A MINIMUM, THE TEE SHALL BE PLACED AT A 45 DEGREE ANGLE FROM PIPE SPRINGLINE.
2. IF NEW MAIN IS BEING INSTALLED OR MAIN IS BEING REPLACED, SERVICE CONNECTION TO THE MAIN SHALL BE DONE WITH A WYE. WYE SHALL BE AT A 45 DEGREE ANGLE FROM PIPE SPRINGLINE.
3. IF CONNECTING EXISTING PRIVATE SIDE SEWER TO NEW CITY LATERAL, A CONCRETE/PVC STRONGBACK FERNCO RC SERIES OR ROMAC COUPLING SHALL BE USED AND SECURED PER MFR'S INSTRUCTIONS.
4. BORING OF SERVICES WITHIN RIGHT OF WAY IS NOT ALLOWED.
5. SEWER PIPE SHALL BE SDR-35 AND JOINTS SHALL BE GASKETED.
6. IF STUB FOR FUTURE DEVELOPMENT, USE RUBBER JOINT BISCUIT PLUG OR OTHER APPROVED WATERTIGHT PLUG.



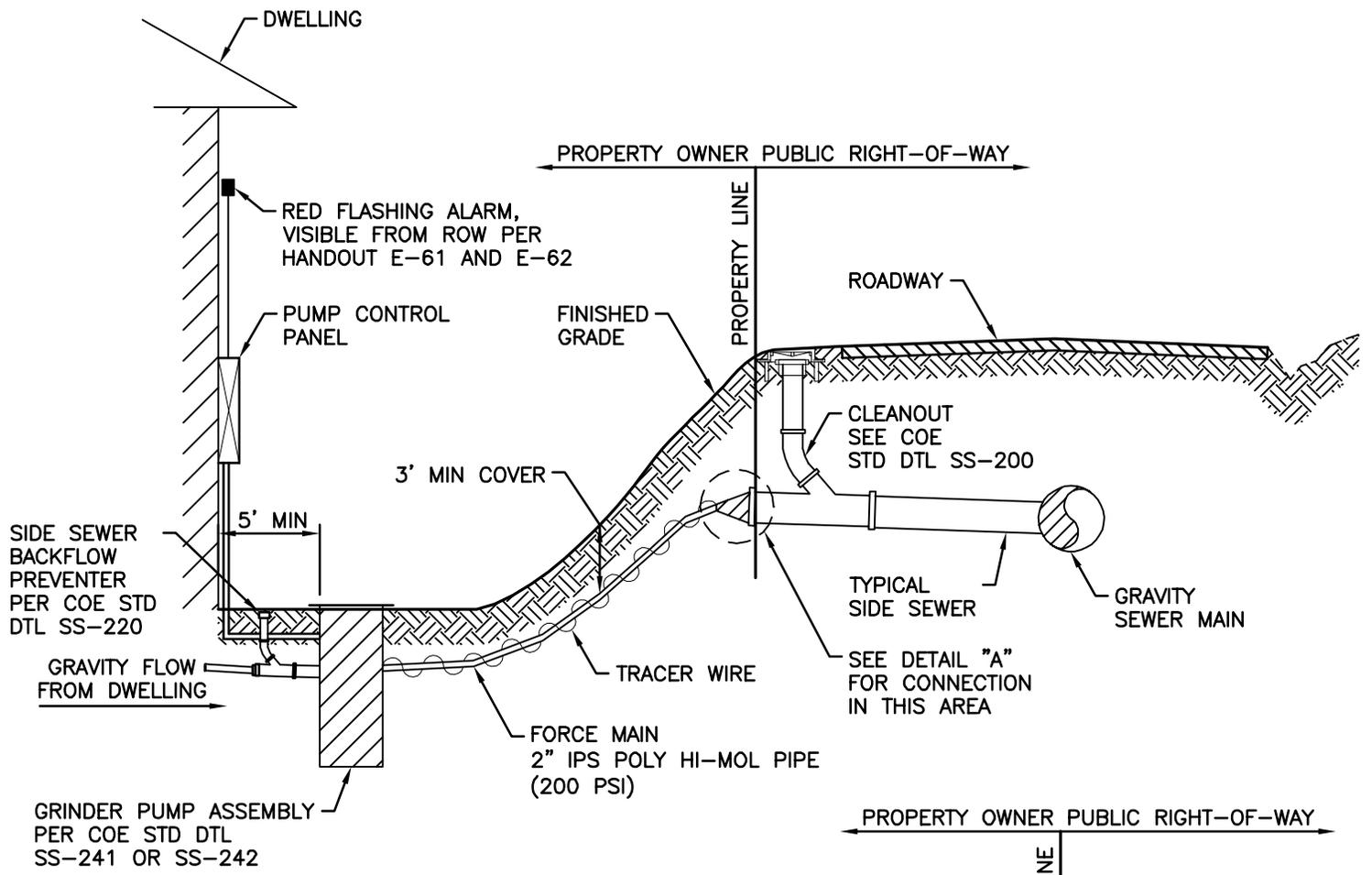
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

NEW LATERAL SEWER

APPROVED BY: **R. ENGLISH**

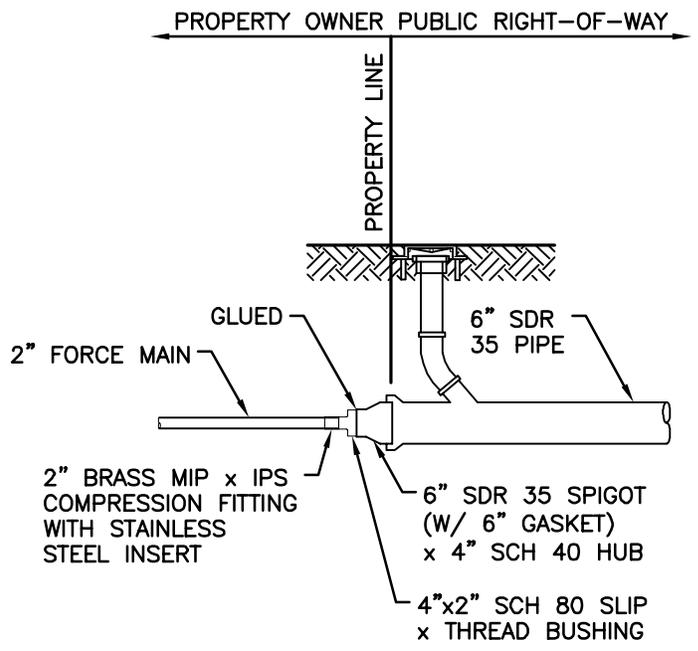
REVISION DATE
FEBRUARY 2018

STANDARD
DETAIL
SS-202



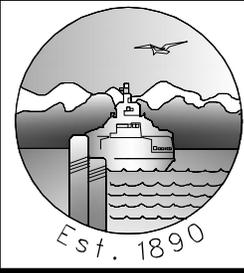
NOTES:

1. WRAP AND TAPE 12 GAUGE TRACER WIRE EVERY 10' TO THE FORCE MAIN.
2. THE LOCATION OF THE STUB SERVICE TERMINATION SHALL BE MARKED BY THE CONTRACTOR WITH A 2"x4" TIMBER EXTENDED VERTICALLY FROM THE PLUG END TO A MINIMUM OF 3 FEET ABOVE THE GROUND SURFACE. IN ADDITION:
 - A 12-GAUGE GALVANIZED WIRE SHALL BE ATTACHED TO THE TIMBER FROM END TO END ENSURING THAT NEITHER THE WIRE NOR THE 2"x4" TIMBER SHALL BE ATTACHED TO THE SEWER PIPE OR PLUG.
 - THE EXPOSED PORTION OF THE 2"x4" TIMBER SHALL BE PRE-PAINTED TRAFFIC WHITE WITH THE WORDS "GRINDER PUMP SEWER CONNECTION" STENCILED ON WITH BLACK PAINT.
 - THE END OF THE 2"x4" TIMBER SHALL BE PRE-MARKED IN PERMANENT INK WITH THE LENGTH OF THE TIMBER INSTALLED.
3. GRINDER PUMP VENTILATION SHALL BE CONNECTED TO THE HOUSE SEWER VENTING SYSTEM, PER NFPA CODE.



DETAIL "A"

CITY INSPECTION REQUIRED PRIOR TO BACKFILL



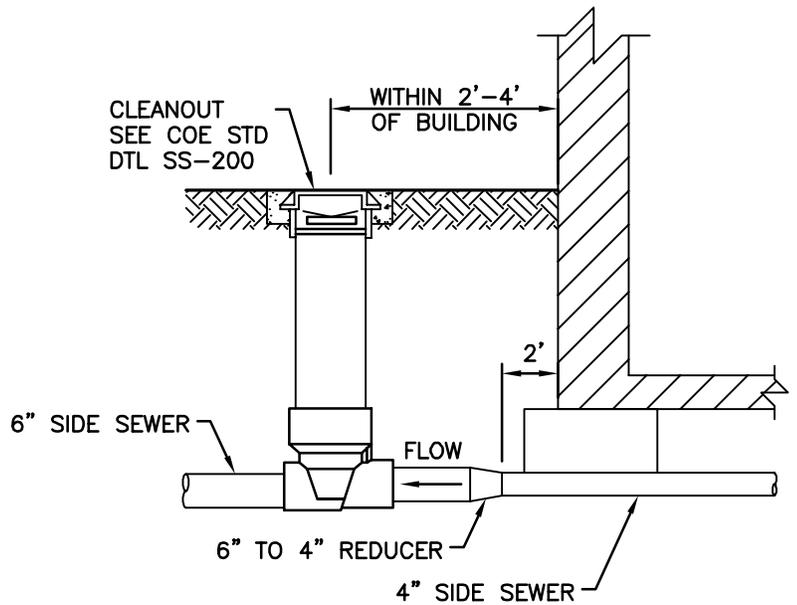
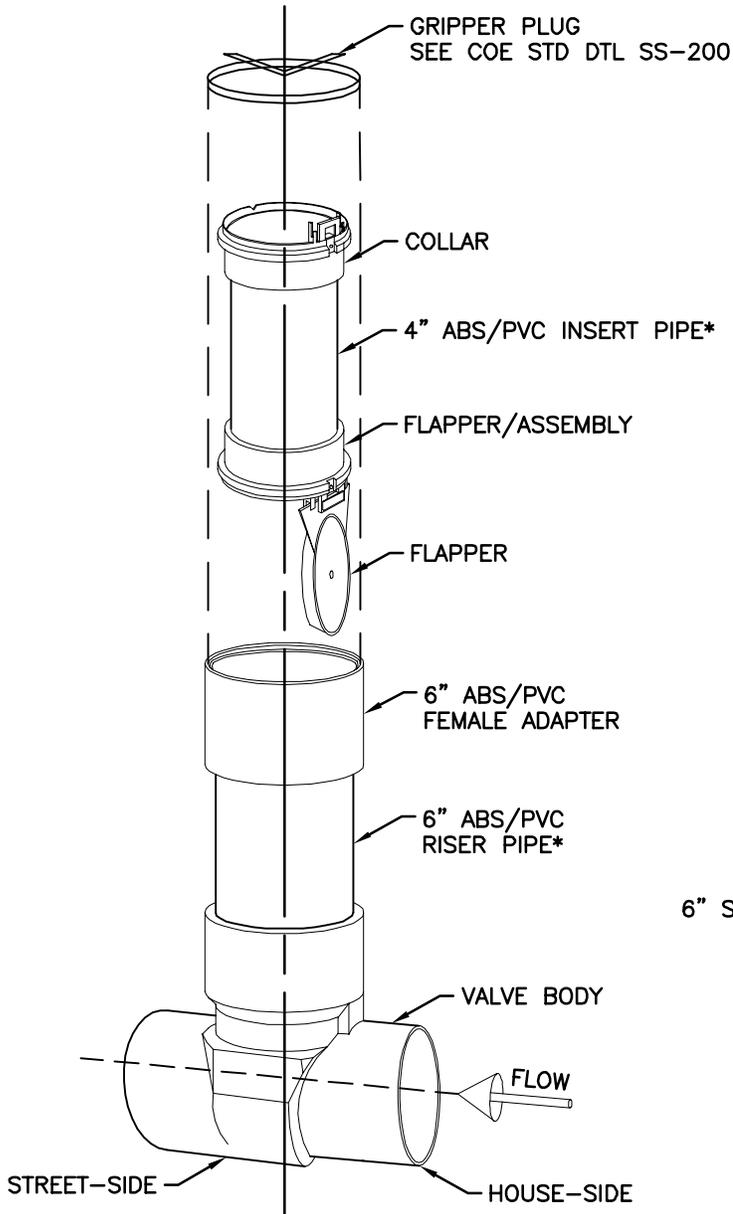
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

**GRINDER PUMP SERVICE
CONNECTION TO
GRAVITY SEWER MAIN**

APPROVED BY: **R. ENGLISH**

REVISION DATE
JANUARY 2018

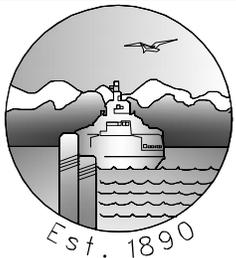
STANDARD
DETAIL
SS-210



* BOTH RISER PIPE AND INSERT PIPE CAN BE EXTENDED—CONTACT MANUFACTURER.

NOTES:

1. THREADED PLUG, FEMALE ADAPTER, INSERT PIPE, AND RISER PIPE MAY BE SUPPLIED BY OTHERS.
2. BACKFLOW PREVENTER SHALL BE LOCATED FROM HOUSE BETWEEN 2' TO 4'.
3. BACKFLOW PREVENTER VALVE SHALL BE A CLEAN CHECK, INC. MODEL #: EBV-P401 OR EQUIVALENT.



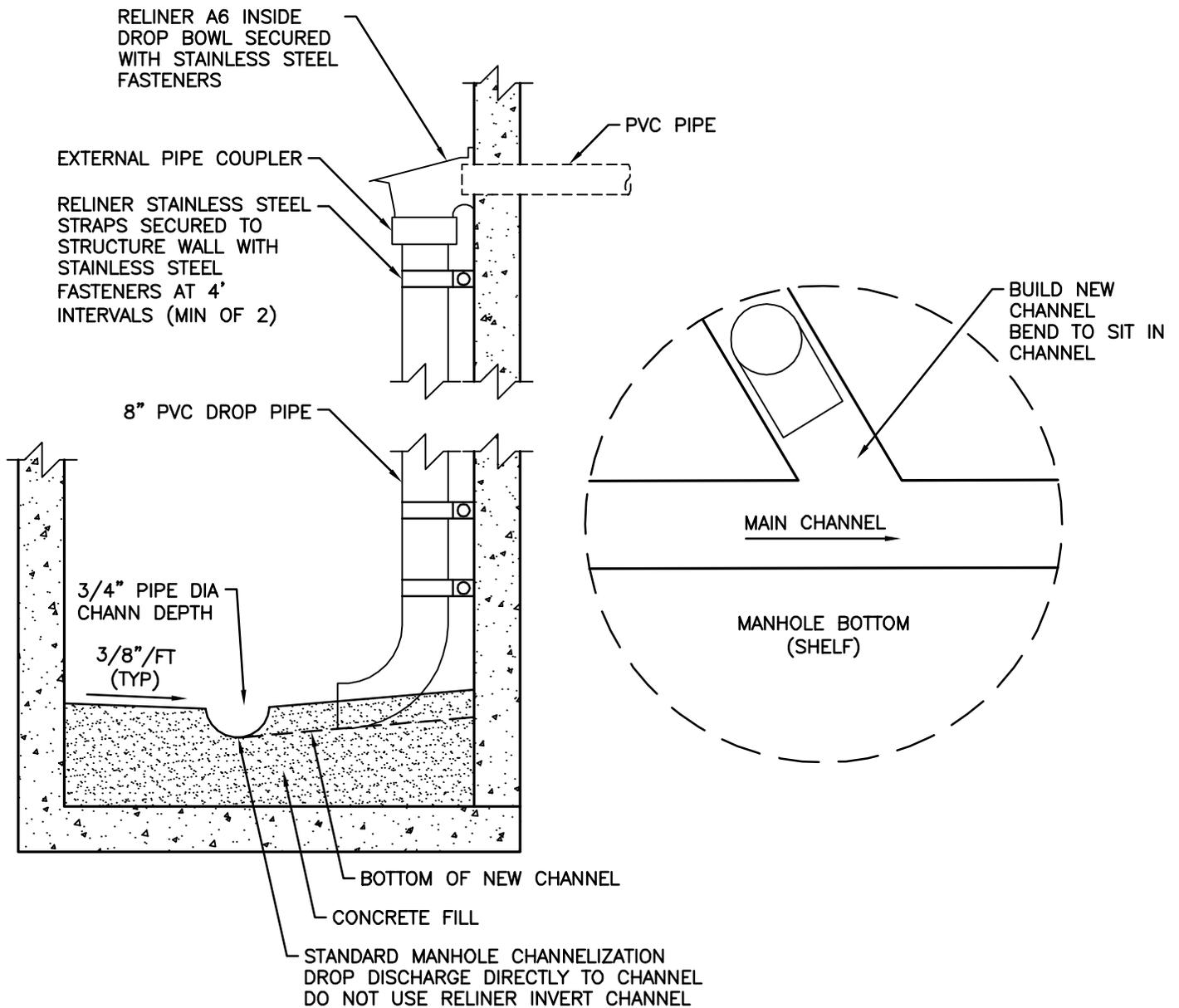
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

**SIDE SEWER
BACKFLOW PREVENTER**

APPROVED BY: **R. ENGLISH**

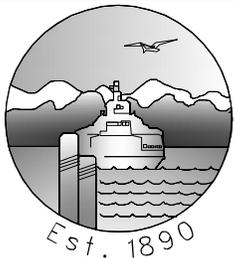
REVISION DATE
JANUARY 2018

STANDARD
DETAIL
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NOTES:

1. DROP INLET SHALL BE RELINER-DURAN W/ A6 BOWL OR EQUAL AS APPROVED BY CITY.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. INSIDE DROP SYSTEM ALLOWED ONLY WITH PRIOR CITY OF EDMONDS APPROVAL.



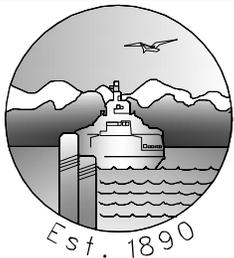
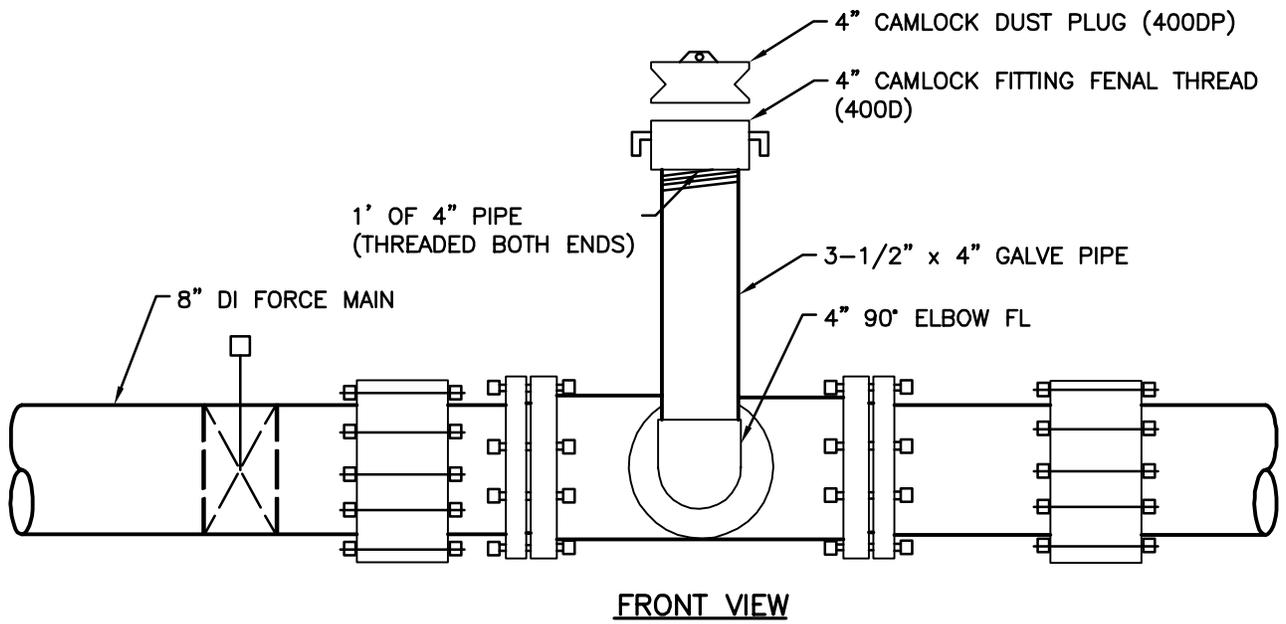
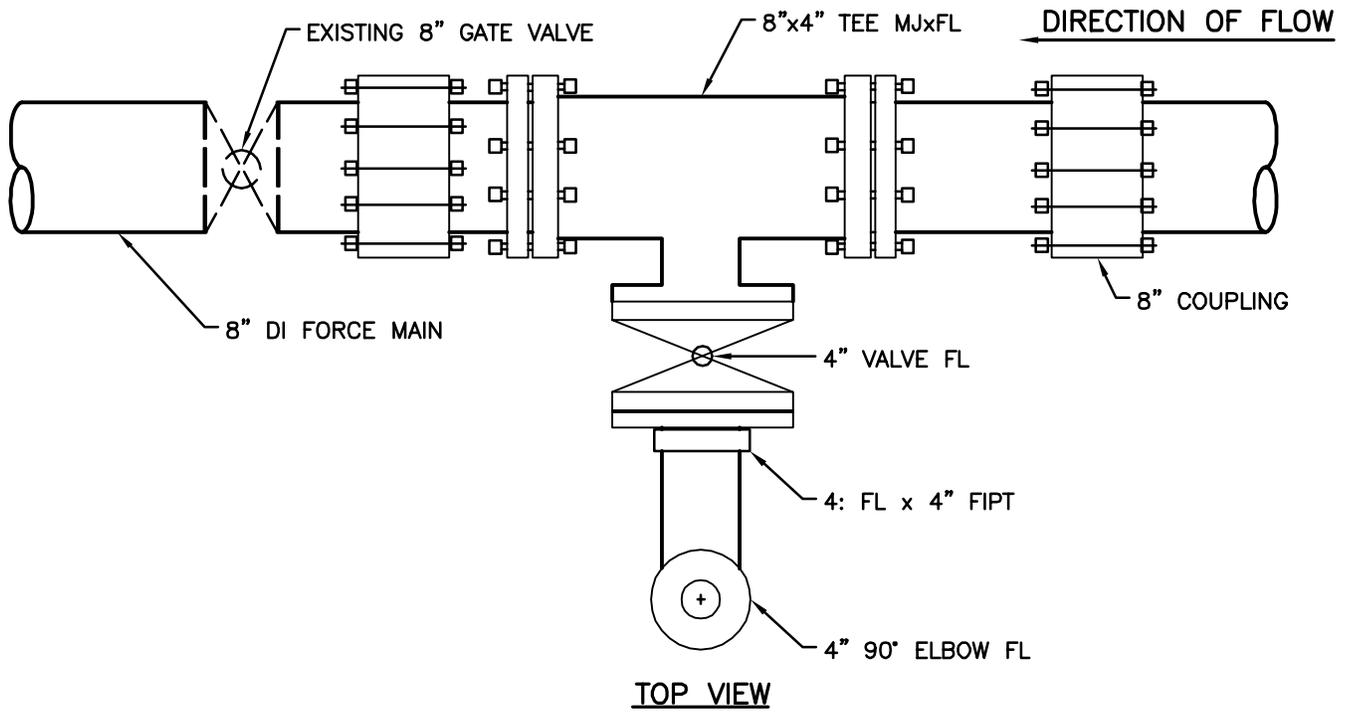
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

**PVC INSIDE DROP
SYSTEM MANHOLE**

APPROVED BY: **R. ENGLISH**

REVISION DATE
JANUARY 2018

STANDARD
DETAIL
SS-220



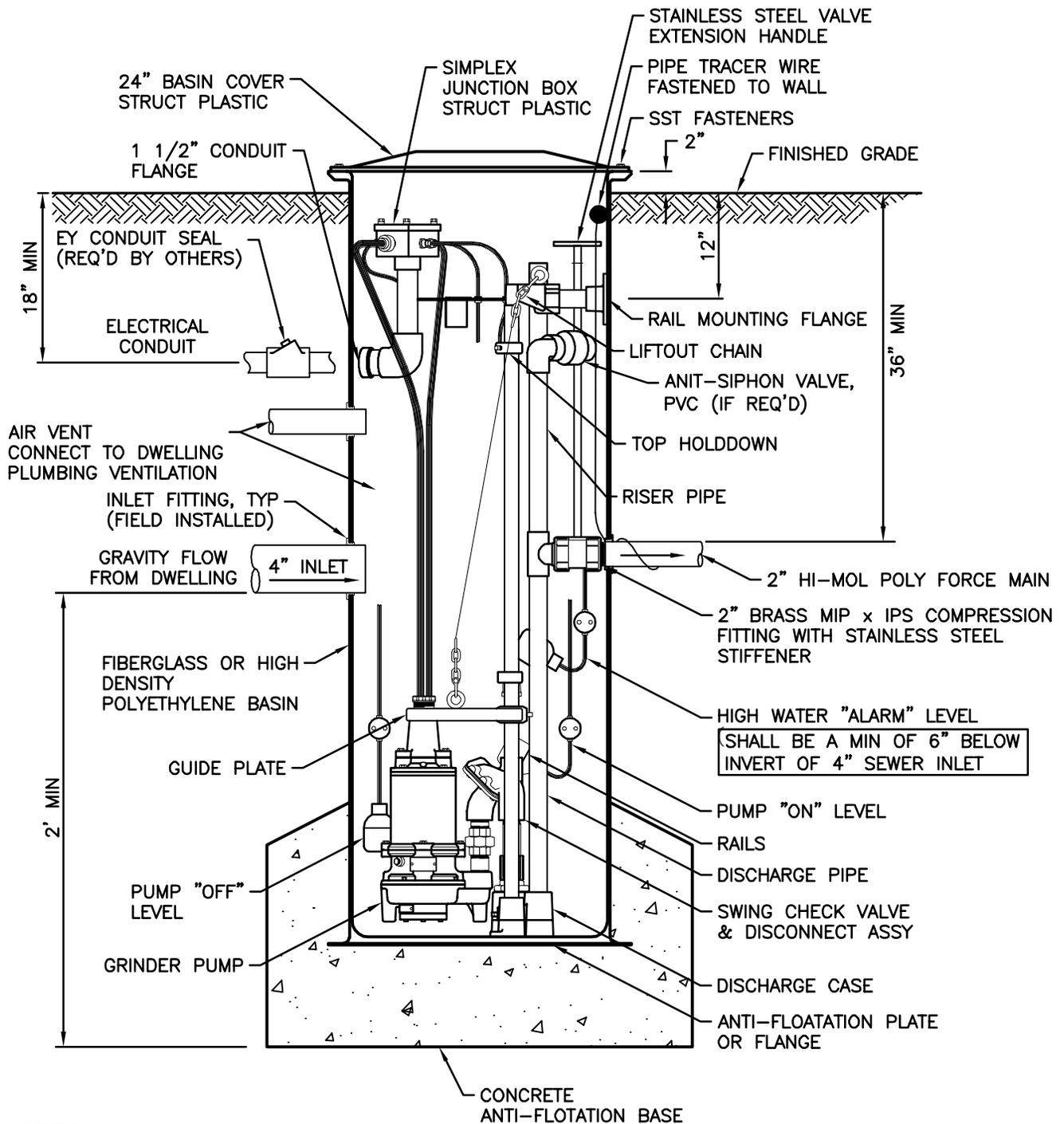
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

SEWER BY-PASS SYSTEM

APPROVED BY: R. ENGLISH

REVISION DATE
JANUARY 2018

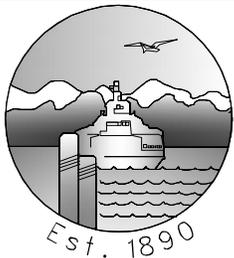
STANDARD
DETAIL
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NOTES:

1. REFER TO CITY HANDOUT E61 FOR ADDITIONAL DESIGN AND PERMIT REQUIREMENTS.
2. ASSEMBLIES SHOULD NOT BE PLACED IN AREAS SUBJECT TO VEHICULAR TRAFFIC. IF LOCATED IN TRAFFIC AREAS, THE LID SHALL BE TRAFFIC RATED AND SHALL BE INSTALLED FLUSH IN ASPHALT OR CONCRETE.

**CITY INSPECTION REQUIRED
PRIOR TO BACKFILL**



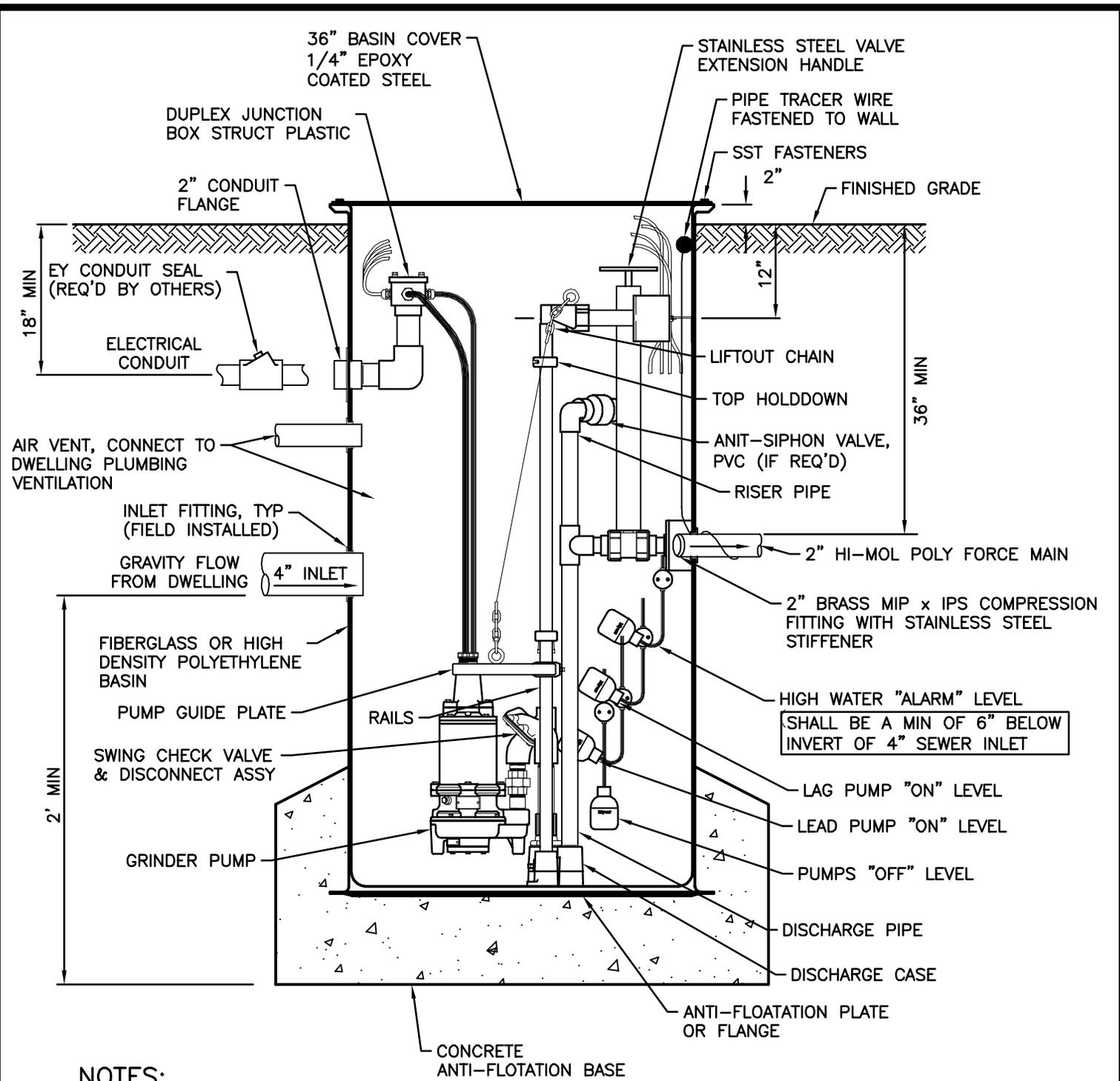
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

**24" SIMPLEX GRINDER
PUMP WITH REMOTE
MOUNTED CONTROL PANEL**

APPROVED BY: **R. ENGLISH**

REVISION DATE
JANUARY 2018

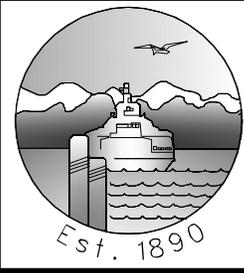
STANDARD
DETAIL
SS-241



NOTES:

1. REFER TO CITY HANDOUT E62 FOR ADDITIONAL DESIGN AND PERMIT REQUIREMENTS.
2. ASSEMBLIES SHOULD NOT BE PLACED IN AREAS SUBJECT TO VEHICULAR TRAFFIC. IF LOCATED IN TRAFFIC AREAS, THE LID SHALL BE TRAFFIC RATED AND SHALL BE INSTALLED FLUSH IN ASPHALT OR CONCRETE.

**CITY INSPECTION REQUIRED
PRIOR TO BACKFILL**



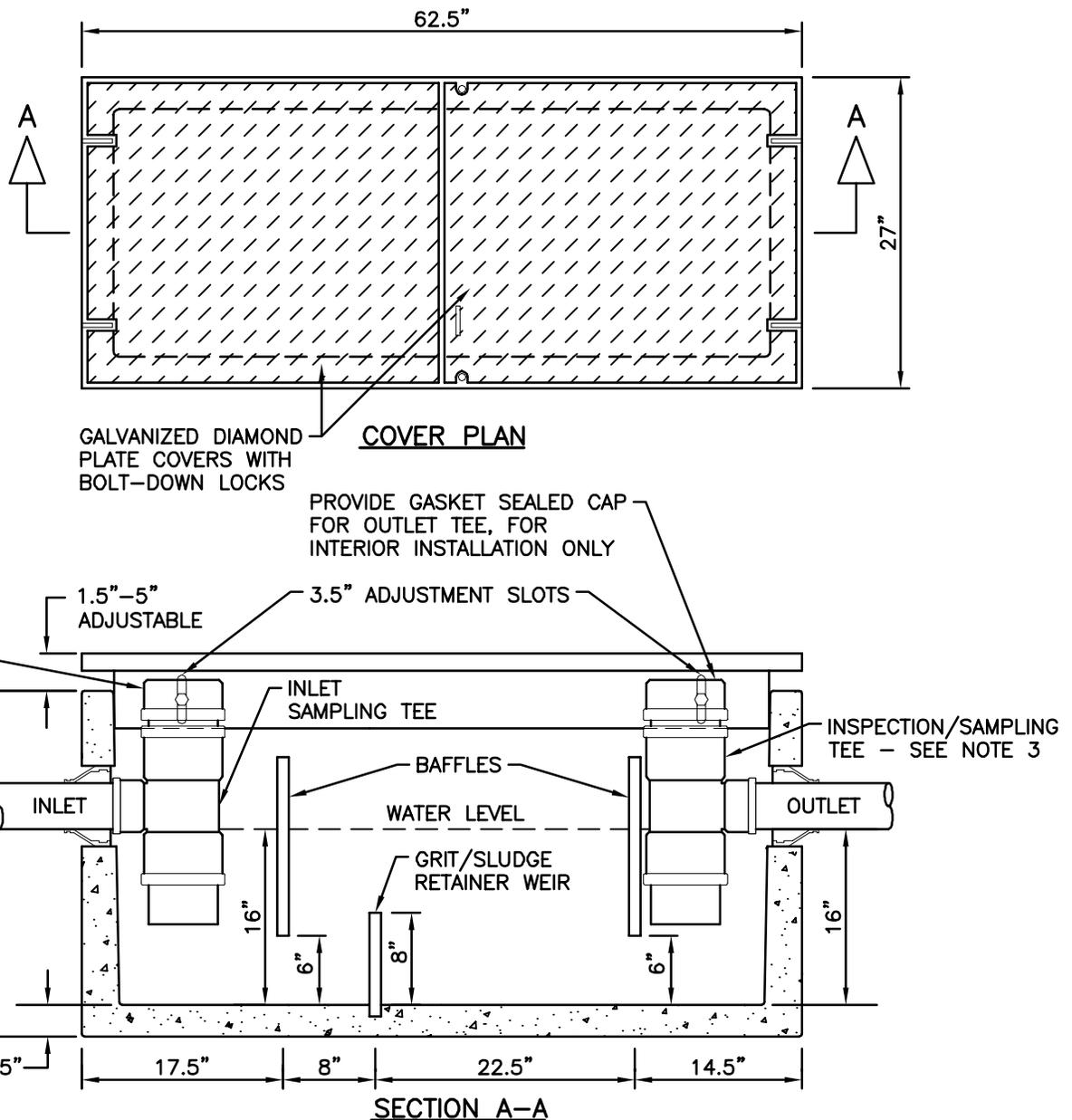
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

**36" DUPLEX GRINDER
PUMP WITH REMOTE
MOUNTED CONTROL PANEL**

APPROVED BY: **R. ENGLISH**

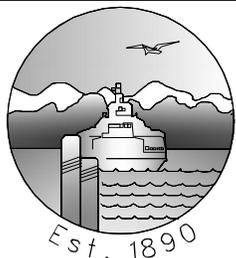
REVISION DATE
JANUARY 2018

STANDARD
DETAIL
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NOTES:

1. USE UTILITY VAULT COMPANY INC. MODEL #25-SA OR EQUAL. PRECAST VAULT 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 THE PIPE DIAMETER.
2. LOCATE VAULT WITHIN 20' OF DRIVE FOR ACCESS BY MAINTENANCE VEHICLES.
3. PVC INSPECTION AND SAMPLING TEE SHALL BE A MINIMUM OF 6" OR MATCH OUTLET PIPE, WHICHEVER IS GREATER. INSTALL GASKETED CAP ON TOP OF THE SAMPLING TEE, FOR INTERIOR INSTALLATIONS ONLY.
4. FILL WITH CLEAN WATER PRIOR TO START-UP OF THE SYSTEM.
5. GRAY AND BLACK WATER SHALL BE CARRIED BY SEPARATE SIDE SEWER.
6. PIPE CONNECTION TO VAULT: KOR-N-SEAL OR EQUAL FOR CORE-DRILLED OPENINGS, OR SAND COLLAR FOR KNOCKOUT OPENING. SEAL ALL PIPE CONNECTIONS WITH NONSHRINK GROUT.
7. INTERIOR OIL/WATER SEPARATORS SHALL HAVE VENTING PER LATEST EDITION OF UNIFORM PLUMBING CODE REQUIREMENTS.
8. PRIOR TO STARTUP, OIL/WATER SEPARATOR SHALL PASS 1% PER DAY LEAK TEST WHERE ONLY A MAXIMUM OF 1% OF DEAD STORAGE REDUCTION IS ALLOWED WITHIN A 24 HOUR PERIOD PER THE UNIFORM PLUMBING CODE (LATEST EDITION).
9. ACCESS LID SHALL HAVE SLIP RESISTANT TREATMENT.



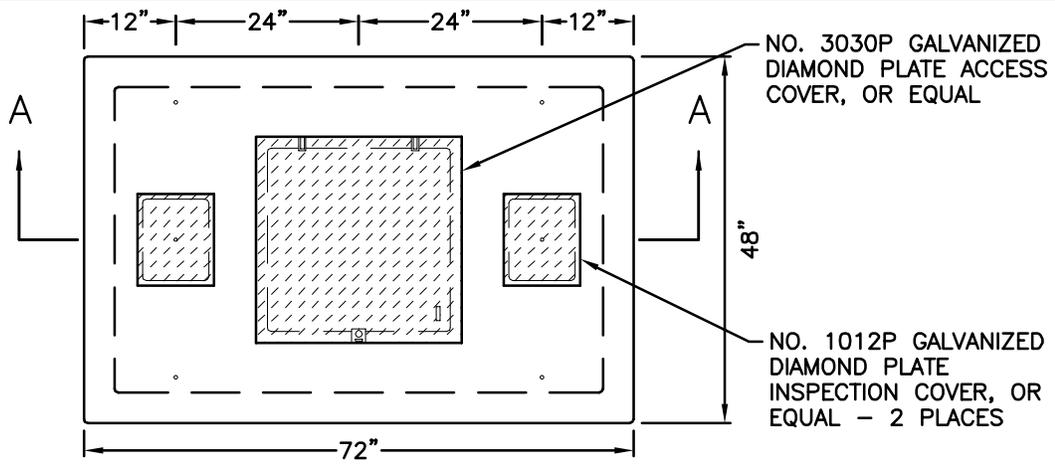
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

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

APPROVED BY: **R. ENGLISH**

REVISION DATE
JANUARY 2018

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DETAIL
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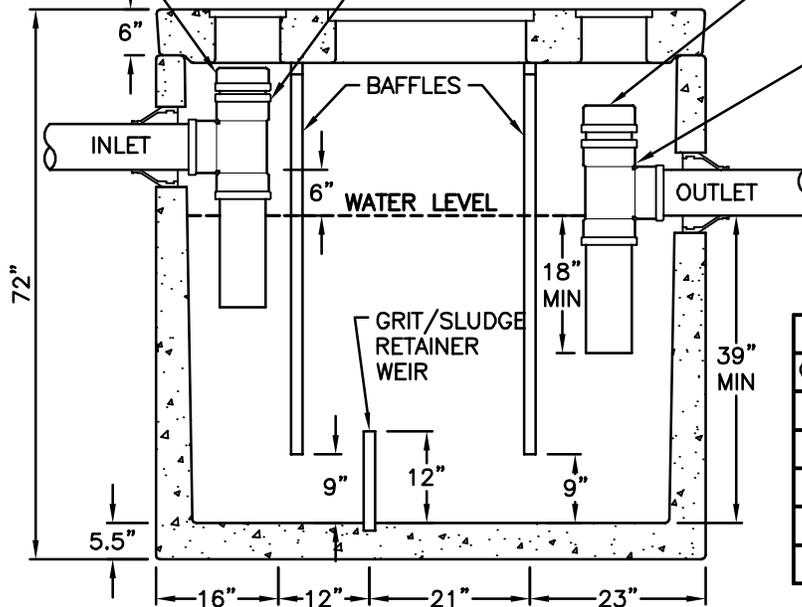


PROVIDE GASKET SEALED CAP FOR INLET TEE, FOR INTERIOR INSTALLATION ONLY

COVER PLAN

PROVIDE GASKET SEALED CAP FOR OUTLET TEE, FOR INTERIOR INSTALLATION ONLY

INSPECTION/SAMPLING TEE - SEE NOTE 3

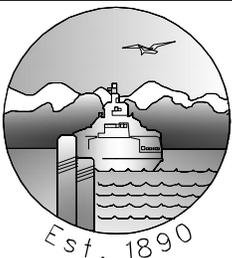


SECTION A-A

VAULT CHART		
CAPACITY GALLONS	450	750-900
MODEL #	660-SA	577-SA
LENGTH	6'-0"	7'-0"
WIDTH	4'-0"	4'-8"
HEIGHT	6'-0"	7'-0"
MANUFACTURER	UV	UV

NOTES:

1. USE UTILITY VAULT COMPANY INC. MODELS (SEE CHART) OR EQUAL. PRECAST VAULT 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 THE PIPE DIAMETER.
2. LOCATE VAULT WITHIN 20' OF DRIVE FOR ACCESS BY MAINTENANCE VEHICLES.
3. PVC INSPECTION AND SAMPLING TEE SHALL BE A MINIMUM OF 6" OR MATCH OUTLET PIPE, WHICHEVER IS GREATER. INSTALL GASKETED CAP ON TOP OF THE SAMPLING TEE, FOR INTERIOR INSTALLATIONS ONLY.
4. FILL WITH CLEAN WATER PRIOR TO START-UP OF THE SYSTEM.
5. GRAY AND BLACK WATER SHALL BE CARRIED BY SEPARATE SIDE SEWER.
6. PIPE CONNECTION TO VAULT: KOR-N-SEAL OR EQUAL FOR CORE-DRILLED OPENINGS, OR SAND COLLAR FOR KNOCKOUT OPENING. SEAL ALL PIPE CONNECTIONS WITH NONSHRINK GROUT.
7. INTERIOR OIL/WATER SEPARATORS SHALL HAVE VENTING PER LATEST EDITION OF UNIFORM PLUMBING CODE REQUIREMENTS.
8. PRIOR TO STARTUP, OIL/WATER SEPARATOR SHALL PASS 1% PER DAY LEAK TEST WHERE ONLY A MAXIMUM OF 1% OF DEAD STORAGE REDUCTION IS ALLOWED WITHIN A 24 HOUR PERIOD PER THE UNIFORM PLUMBING CODE (LATEST EDITION).
9. ACCESS LIDS SHALL HAVE SLIP RESISTANT TREATMENT.



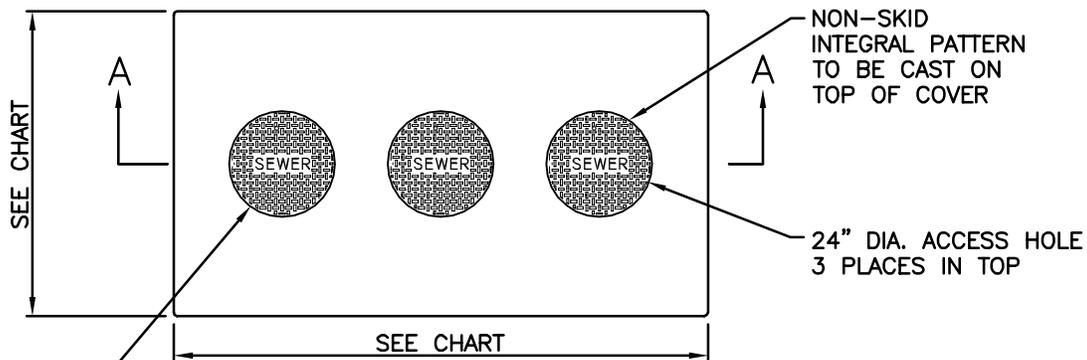
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

**450-900 GALLON BAFFLE
TYPE OIL/WATER
SEPARATOR**

APPROVED BY: **R. ENGLISH**

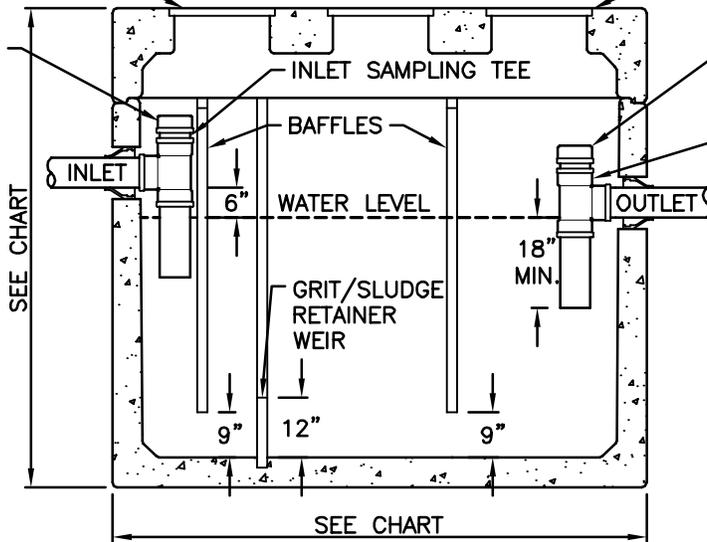
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COVER PLAN

SEE COE STD
DTL GU-420



SECTION A-A

PROVIDE GASKET
SEALED CAP
FOR INLET TEE,
FOR INTERIOR
INSTALLATION
ONLY.

CAST IRON FRAME AND
COVER 24" DIA. CLEAR
ACCESS 3 PLACES

PROVIDE GASKET SEALED CAP
FOR OUTLET TEE, FOR INTERIOR
INSTALLATION ONLY.

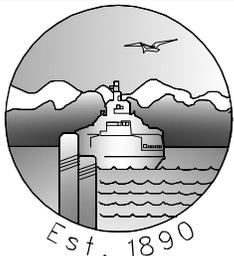
INSPECTION/SAMPLING TEE -
SEE NOTE 3

OIL/WATER SEPARATORS

CAPACITY GALLONS	1100	1500	2200	3000-4000	5000
MODEL #	4484-SA	5106-SA	612-SA	712-SA	814-SA
LENGTH	9'-0"	11'-2"	12'-8"	13'-1"	15'-7"
WIDTH	5'-0"	5'-8"	6'-8"	8'-0"	9'-7"
HEIGHT	7'-2½"	7'-2"	8'-0"	8'-7"	10'-½"
MANUFACTURER	UV	UV	UV	UV	UV

NOTES:

1. USE UTILITY VAULT COMPANY INC. MODEL (SEE CHART) OR EQUAL. PRECAST VAULT 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 THE PIPE DIAMETER.
2. LOCATE VAULT WITHIN 20' OF DRIVE FOR ACCESS BY MAINTENANCE VEHICLES.
3. PVC SAMPLING TEE SHALL BE A MINIMUM OF 6" OR MATCH OUTLET PIPE, WHICHEVER IS GREATER. INSTALL GASKETED CAP ON TOP OF THE SAMPLING TEE, FOR INTERIOR INSTALLATION ONLY.
4. FILL WITH CLEAN WATER PRIOR TO START-UP OF THE SYSTEM.
5. GRAY AND BLACK WATER SHALL BE CARRIED BY SEPARATE SIDE SEWER.
6. PIPE CONNECTION TO VAULT: KOR-N-SEAL OR EQUAL FOR CORE-DRILLED OPENINGS, OR SAND COLLAR FOR KNOCKOUT OPENING. SEAL ALL PIPE CONNECTIONS WITH NONSHRINK GROUT.
7. INTERIOR OIL/WATER SEPARATORS SHALL HAVE VENTING PER LATEST EDITION OF UNIFORM PLUMBING CODE REQUIREMENTS.
8. PRIOR TO STARTUP, OIL/WATER SEPARATOR SHALL PASS 1% PER DAY LEAK TEST WHERE ONLY A MAXIMUM OF 1% OF DEAD STORAGE REDUCTION IS ALLOWED WITHIN A 24 HOUR PERIOD PER THE UNIFORM PLUMBING CODE (LATEST EDITION).



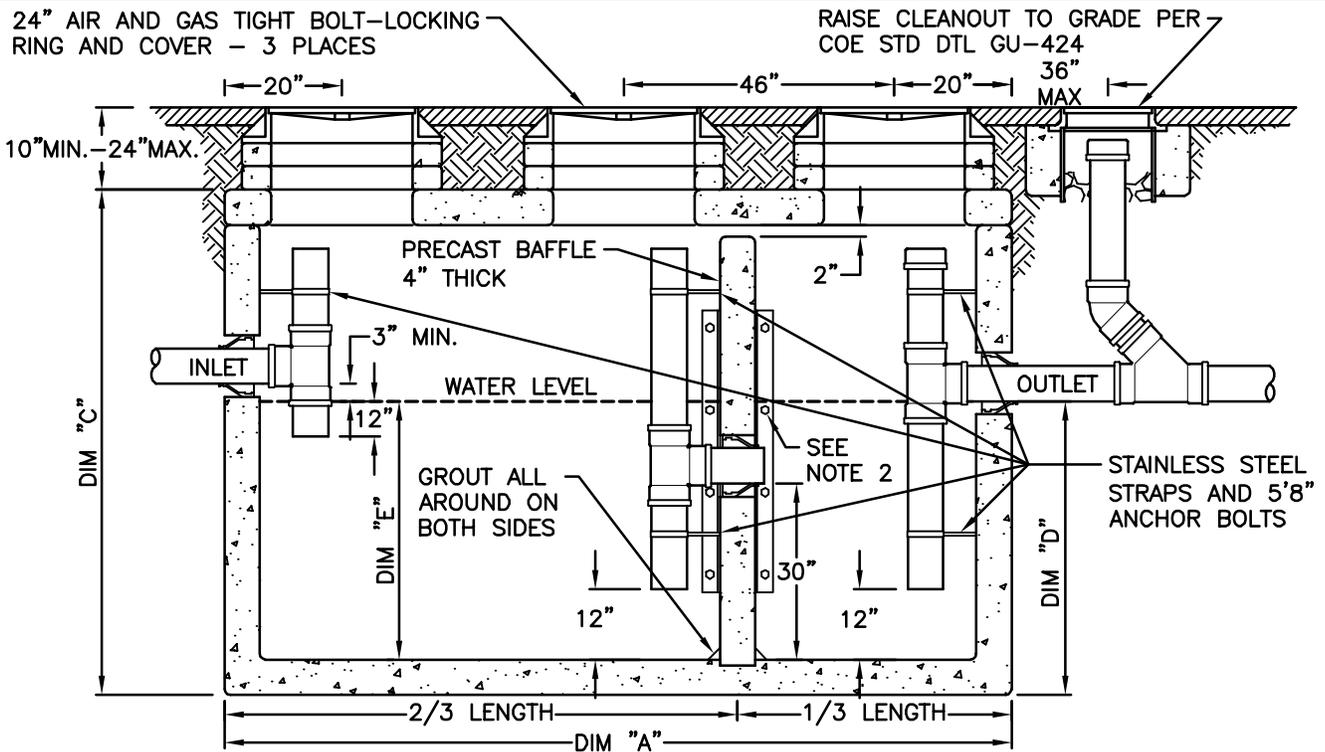
CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

**1100-5000 GALLON
BAFFLE TYPE OIL/WATER
SEPARATOR**

APPROVED BY: **R. ENGLISH**

REVISION DATE
JANUARY 2018

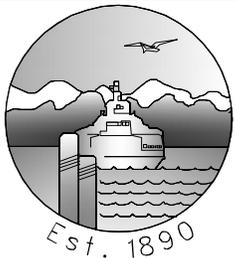
STANDARD
DETAIL
SS-262



GALLON CAPACITY		600	750	1000	1500	2000	2500	3000	4000	5000	6000
UV CO. MODEL No.		577-GA	577-GA	4484-GA	5106-GA	612-GA	612-GA	712-GA	712-GA	818-GA	818-GA
LENGTH	DIM "A"	7'-0"	7'-0"	9'-0"	11'-2"	12'-8"	12'-8"	15'-7"	15'-7"	19'-11"	19'-11"
WIDTH	DIM "B"	4'-8"	4'-8"	5'-0"	5'-8"	6'-8"	6'-8"	9'-7"	9'-7"	9'-11"	9'-11"
HEIGHT	DIM "C"	7'-0"	7'-0"	7'-2"	7'-2"	8'-0"	8'-0"	8'-6 1/2"	8'-6 1/2"	8'-11"	10'-5"
	DIM "D"	3'-6"	4'-3"	4'-2"	4'-4"	4'-7"	5'-6"	5'-0"	6'-3"	6'-2"	7'-2"
WATER DEPTH	DIM "E"	3'-2"	3'-11"	3'-10"	4'-0"	3'-10"	4'-9"	3'-9"	5'-0"	4'-9"	5'-9"

NOTES:

- USE UTILITY VAULT COMPANY INC. PRECAST CONCRETE VAULT OR EQUAL. SEE CHART ABOVE FOR DIMENSIONS REQUIRED FOR EACH GALLON CAPACITY. PRECAST VAULT 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 THE PIPE DIAMETER.
- IF VAULT IS NOT SLOTTED TO ACCEPT PRECAST CONCRETE BAFFLE THEN BAFFLE SHALL BE HELD IN PLACE BY (2) 3"x3"x3/8" ANGLE 4FT. LONG ON EACH SIDE. ALL 4 PIECES OF ANGLE SHALL BE HELD IN PLACE WITH (4) 1/2" BOLTS WITH WASHERS SPACED 14" ON CENTER. ANGLE AND FASTENERS SHALL BE STAINLESS STEEL OR GALVANIZED AND ASPHALT COATED.
- LOCATE VAULT WITHIN 20' OF DRIVE FOR ACCESS BY MAINTENANCE VEHICLES.
- PVC SAMPLING TEE SHALL BE A MINIMUM OF 6" OR MATCH OUTLET PIPE, WHICHEVER IS GREATER. INSTALL GASKETED CAP ON TOP OF THE SAMPLING TEE, FOR INTERIOR INSTALLATION ONLY.
- POSITION RISERS BELOW ACCESS OPENINGS TO ALLOW CLEAR ACCESS TO RISER AND VAULT CHAMBER.
- ALL RINGS AND COVERS SHALL BE AIR AND GAS TIGHT BOLT-LOCKING TYPE, RATED FOR H20 LOAD MINIMUM.
- FOR 1000 GALLON INTERCEPTOR, SUBSTITUTE 12" RING AND COVER FOR "CENTER MANHOLE". LOCATE 12" RING AND COVER DIRECTLY ABOVE TEE AND RISER.
- FOR 600 AND 750 GALLON INTERCEPTOR, SUBSTITUTE 30" RING AND COVER FOR THE TWO 24" MANHOLES LOCATED AT THE OUTLET END OF THE VAULT. CENTER OF 30" RING AND COVER SHALL BE LOCATED 2 FT. FROM THE OUTLET FACE OF VAULT.
- FILL WITH CLEAN WATER PRIOR TO START-UP OF THE SYSTEM.
- PIPE CONNECTION TO VAULT: KOR-N-SEAL OR EQUAL FOR CORE-DRILLED OPENINGS, OR SAND COLLAR FOR KNOCKOUT OPENING. SEAL ALL PIPE CONNECTIONS WITH NONSHRINK GROUT.
- INTERIOR GREASE INTERCEPTORS SHALL HAVE VENTING PER LATEST EDITION UNIFORM PLUMBING CODE REQUIREMENTS.
- PRIOR TO STARTUP, GREASE INTERCEPTOR SHALL PASS 1% PER DAY LEAK TEST WHERE ONLY A MAXIMUM OF 1% OF DEAD STORAGE REDUCTION IS ALLOWED WITHIN A 24 HOUR PERIOD PER THE UNIFORM PLUMBING CODE (LATEST EDITION).



CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

GREASE INTERCEPTOR

APPROVED BY: **R. ENGLISH**

REVISION DATE
JANUARY 2018

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