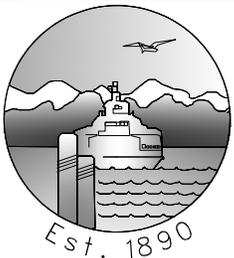


## NOTES:

- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9-05.50(3).
- HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MIN CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MIN CLEARANCE.
- APPLY NON-SHRINK GROUT TO INSIDE AND OUTSIDE OF ALL JOINTS, RINGS, PICK HOLES, RISERS AND FRAMES. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
- KNOCKOUT OR CUTOUT HOLE SIZE SHALL EQUAL PIPE OUTER DIAMETER PLUS CATCH BASIN WALL THICKNESS. MAX HOLE SIZE SHALL BE 36" FOR 48" CATCH BASIN, 42" FOR 54" CB, 48" FOR 60" CB, 60" FOR 72" CB, 84" FOR 96" CB. MIN DISTANCE BETWEEN HOLES SHALL BE 8" FOR 48", 54", AND 60" CB; 12" FOR 72" AND 96" CB.
- CATCH BASIN FRAMES AND GRATES OR COVERS SHALL BE IN ACCORDANCE WITH SEC 7.05 OF THE WSDOT STANDARD SPECIFICATIONS.
- STEP AND LADDER MAY BE USED IN LIEU OF POLYPROPYLENE SAFETY STEPS. SEE COE STD DTL GU-423.



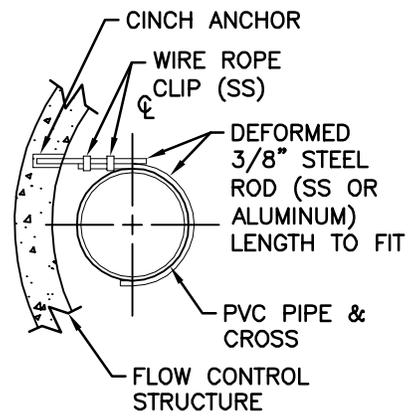
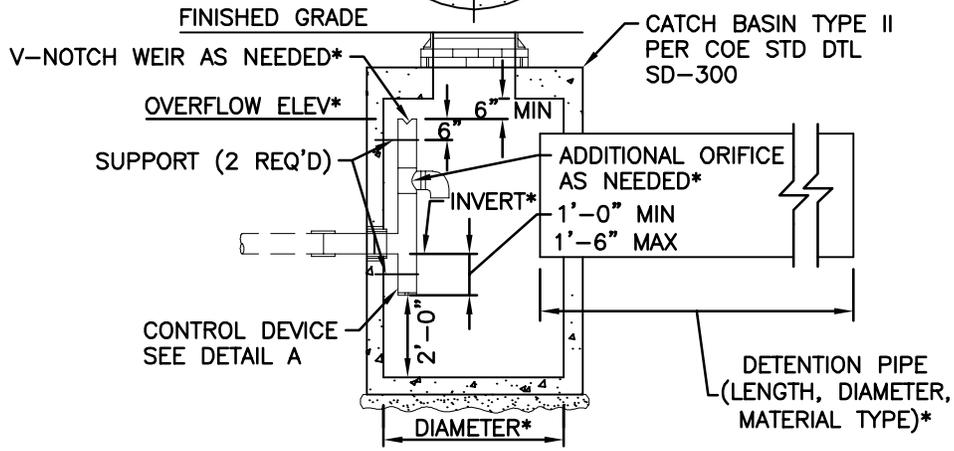
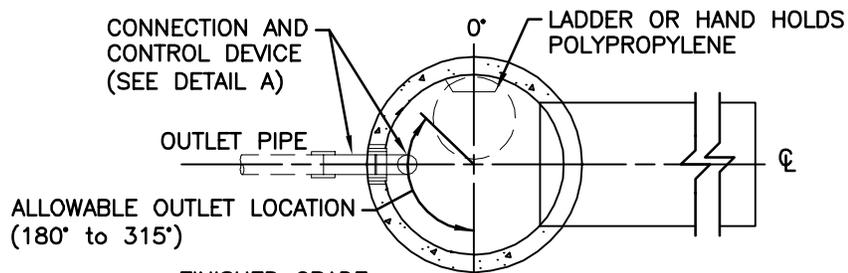
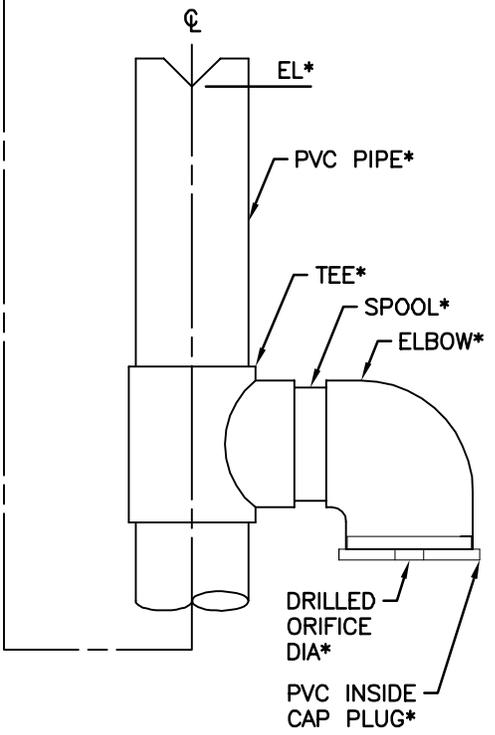
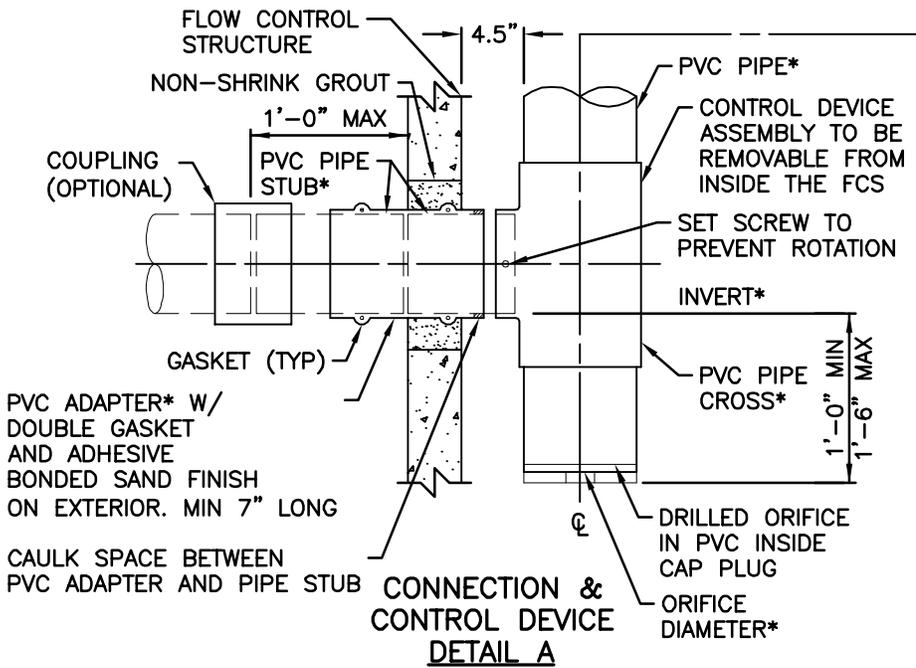
**CITY OF EDMONDS**  
PUBLIC WORKS  
DEPARTMENT

**CATCH BASIN, TYPE II**  
48", 54", 60",  
72", & 96"

APPROVED BY: R. ENGLISH

REVISION DATE  
OCTOBER 2018

STANDARD  
DETAIL  
SD-300



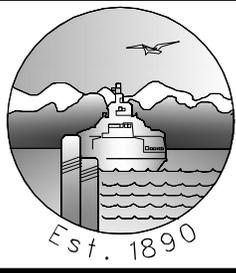
**PIPE SUPPORT  
DETAIL B**

**FLOW CONTROL STRUCTURE  
SHOWN W/ TYPE 2 CATCH BASIN**

(DETAILS A & B SHALL APPLY TO ALL DESIGNS WHERE A SHEAR GATE WOULD OTHERWISE APPLY)

**NOTES:**

- \* SPECIFIC DESIGN INFORMATION AS INDICATED ON APPROVED CONSTRUCTION DRAWINGS.
- INVERT OF DETENTION PIPE IN STRUCTURE SHALL BE EQUAL TO OR HIGHER THAN THE INVERT OF THE OUTLET PIPE.
- PRIVATELY-OWNED CONTROL STRUCTURES SHALL NOT BE PLACED IN CITY RIGHT-OF-WAY.



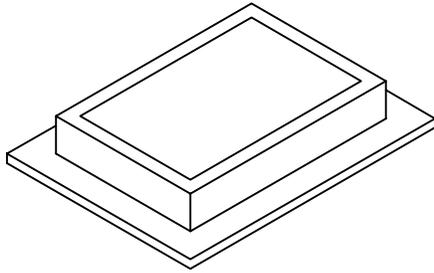
**CITY OF EDMONDS**  
PUBLIC WORKS  
DEPARTMENT

**FLOW CONTROL  
STRUCTURE  
(FCS)**

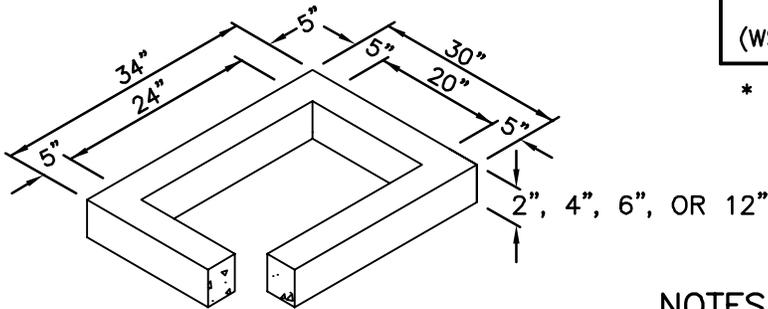
APPROVED BY: **R. ENGLISH**

REVISION DATE  
**JANUARY 2018**

STANDARD  
DETAIL  
**SD-301**

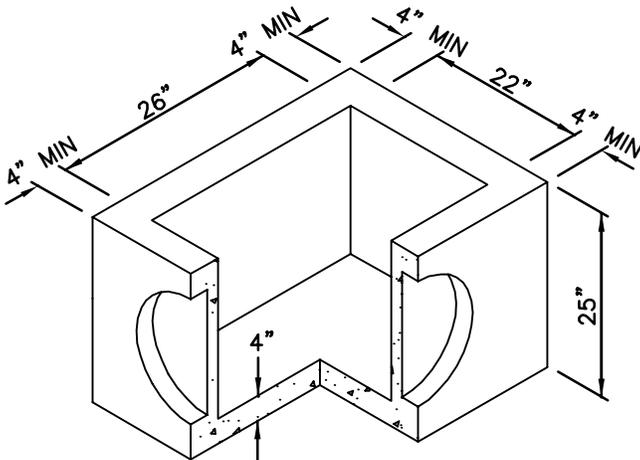


SEE APPLICABLE STANDARD DETAILS  
**FRAME AND GRATE**



**RISER SECTION**

REINFORCED OR  
PLAIN CONCRETE



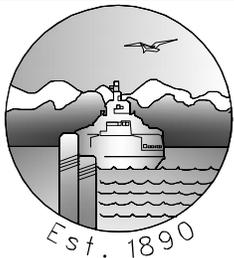
(MEASUREMENT AT THE TOP OF THE BASE)  
**PRECAST BASE SECTION**

| PIPE ALLOWANCES                                 |                         |
|---|-------------------------|
| PIPE MATERIAL                                   | MAXIMUM INSIDE DIAMETER |
| REINFORCED OR PLAIN CONCRETE                    | 12"                     |
| ALL METAL PIPE                                  | 15"                     |
| CPSSP*<br>(WSDOT STD SPEC 9-05.20)              | 12"                     |
| SOLID WALL PVC<br>(WSDOT STD SPEC 9-05.12.(1))  | 15"                     |
| PROFILE WALL PVC<br>(WSDOT STD SPEC 9-05.12(2)) | 15"                     |

\* CORRUGATED POLYETHYLENE  
STORM SEWER PIPE

**NOTES:**

1. CONCRETE INLET TO BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9-05.50(4).
2. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497. WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
3. VERTICAL EDGE OF RISER SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CONCRETE INLET.
4. ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES WITH MAX DIAMETER OF 16".
5. THE MAX DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
6. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2"/FT.
7. CONCRETE INLET FRAME AND GRATES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
8. APPLY NON-SHRINK GROUT TO INSIDE AND OUTSIDE OF ALL JOINTS, RINGS, RISERS AND FRAMES.



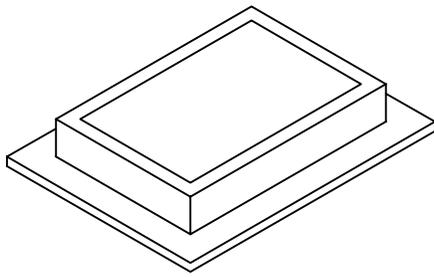
**CITY OF EDMONDS**  
PUBLIC WORKS  
DEPARTMENT

**CONCRETE INLET**

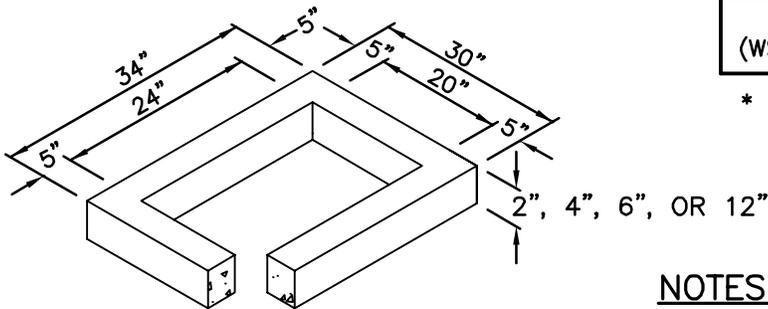
APPROVED BY: **R. ENGLISH**

REVISION DATE  
**JANUARY 2018**

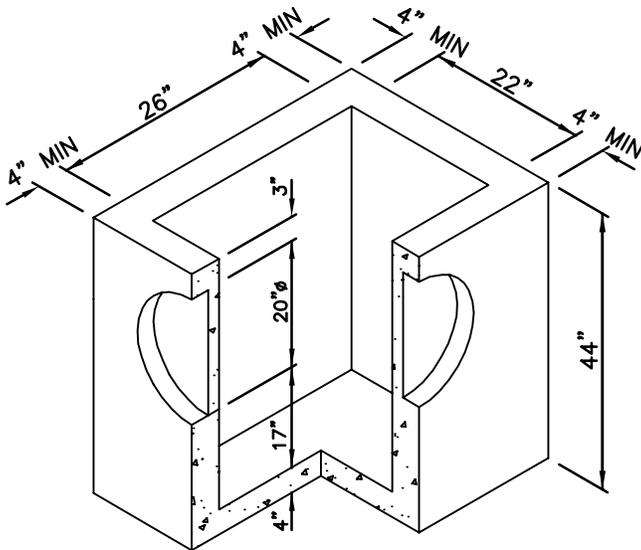
STANDARD  
DETAIL  
**SD-302**



SEE APPLICABLE STANDARD DETAILS  
**FRAME AND GRATE**



**RISER SECTION**



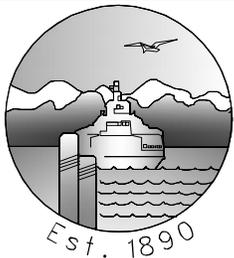
(MEASUREMENT AT THE TOP OF THE BASE)  
**PRECAST BASE SECTION**

| PIPE ALLOWANCES                                 |                         |
|---|-------------------------|
| PIPE MATERIAL                                   | MAXIMUM INSIDE DIAMETER |
| REINFORCED OR PLAIN CONCRETE                    | 12"                     |
| ALL METAL PIPE                                  | 15"                     |
| CPSSP*<br>(WSDOT STD SPEC 9-05.20)              | 12"                     |
| SOLID WALL PVC<br>(WSDOT STD SPEC 9-05.12.(1))  | 15"                     |
| PROFILE WALL PVC<br>(WSDOT STD SPEC 9-05.12(2)) | 15"                     |

\* CORRUGATED POLYETHYLENE  
STORM SEWER PIPE

**NOTES:**

1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9-05.50(3).
2. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
3. APPLY NON-SHRINK GROUT TO INSIDE AND OUTSIDE OF ALL JOINTS, RINGS, RISERS AND FRAMES.
4. ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX DIAMETER OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
5. THE MAX DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
6. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2"/FT.
7. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
8. VERTICAL EDGE OF RISER SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.



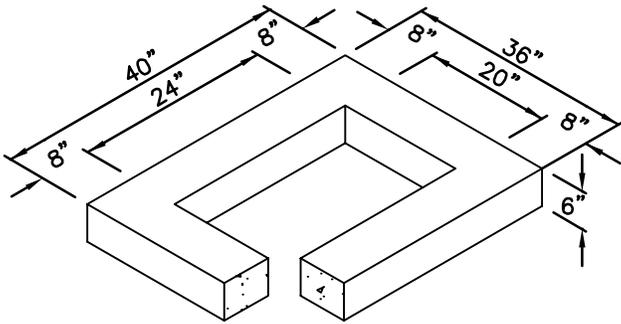
**CITY OF EDMONDS**  
PUBLIC WORKS  
DEPARTMENT

**CATCH BASIN TYPE I**

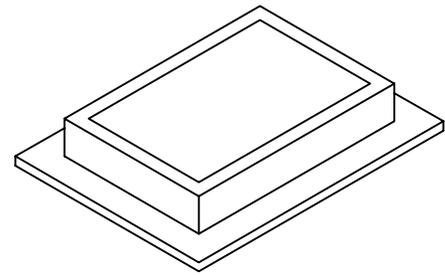
APPROVED BY: **R. ENGLISH**

REVISION DATE  
**JANUARY 2018**

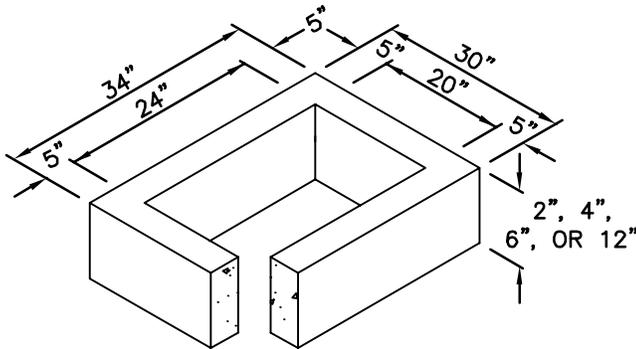
STANDARD  
DETAIL  
**SD-303**



**6" REDUCING SECTION**



SEE APPLICABLE STANDARD DETAILS  
**FRAME AND GRATE**



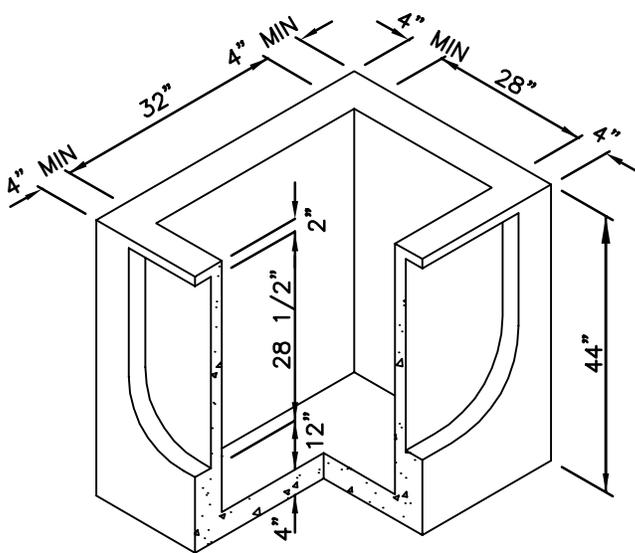
**RISER SECTION**

| PIPE ALLOWANCES                                 |                         |
|---|-------------------------|
| PIPE MATERIAL                                   | MAXIMUM INSIDE DIAMETER |
| REINFORCED OR PLAIN CONCRETE                    | 18"                     |
| ALL METAL PIPE                                  | 21"                     |
| CPSSP*<br>(WSDOT STD SPEC 9-05.20)              | 18"                     |
| SOLID WALL PVC<br>(WSDOT STD SPEC 9-05.12.(1))  | 21"                     |
| PROFILE WALL PVC<br>(WSDOT STD SPEC 9-05.12(2)) | 21"                     |

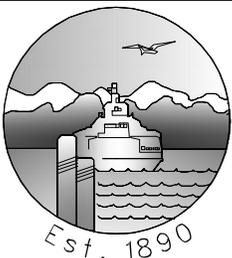
**NOTES:**

\* CORRUGATED POLYETHYLENE  
STORM SEWER PIPE

1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9-05.50(3).
2. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
3. APPLY NON-SHRINK GROUT TO INSIDE AND OUTSIDE OF ALL JOINTS, RINGS, RISERS AND FRAMES.
4. KNOCKOUTS MAY BE ON ALL 4 SIDES WITH MAX DIAMETER OF 28". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
5. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2"/FT.
6. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
7. MAX DEPTH FROM FINISHED GRADE TO PIPE INVERT SHALL BE 5'-0".
8. VERTICAL EDGE OF REDUCING SECTION SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.



(MEASUREMENT AT THE TOP OF THE BASE)  
**PRECAST BASE SECTION**



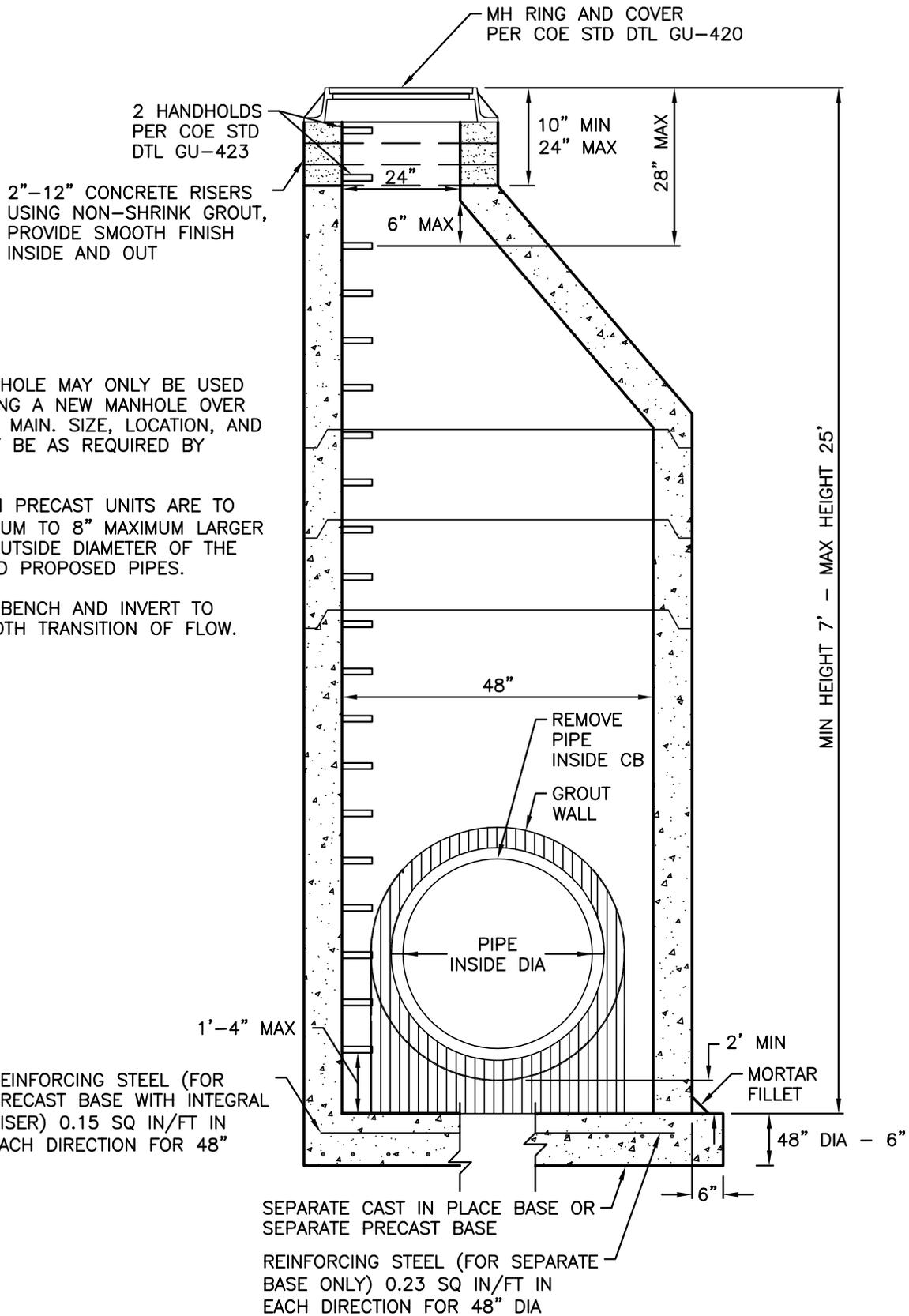
**CITY OF EDMONDS**  
PUBLIC WORKS  
DEPARTMENT

**CATCH BASIN TYPE I-L**

APPROVED BY: **R. ENGLISH**

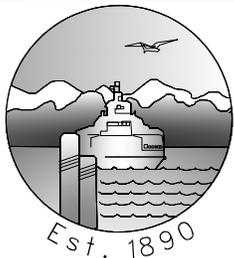
REVISION DATE  
**JANUARY 2018**

STANDARD  
DETAIL  
**SD-304**



**NOTES:**

1. SADDLE MANHOLE MAY ONLY BE USED WHEN PLACING A NEW MANHOLE OVER AN EXISTING MAIN. SIZE, LOCATION, AND ANGLE MUST BE AS REQUIRED BY PLANS.
2. OPENINGS IN PRECAST UNITS ARE TO BE 4" MINIMUM TO 8" MAXIMUM LARGER THAN THE OUTSIDE DIAMETER OF THE EXISTING AND PROPOSED PIPES.
3. CONSTRUCT BENCH AND INVERT TO ALLOW SMOOTH TRANSITION OF FLOW.



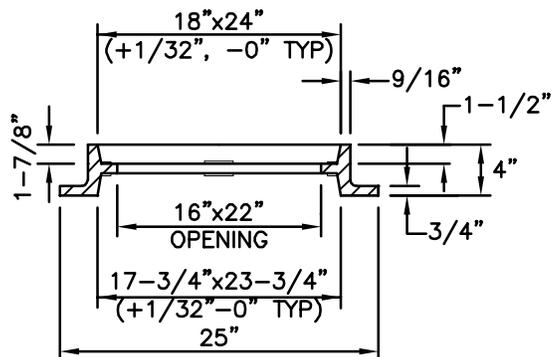
**CITY OF EDMONDS**  
PUBLIC WORKS  
DEPARTMENT

**48" SADDLE CB  
FOR 24" AND SMALLER  
PIPE**

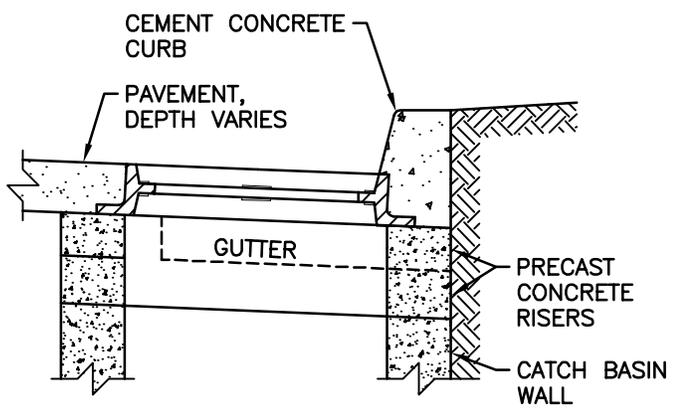
APPROVED BY: R. ENGLISH

REVISION DATE  
OCTOBER 2018

STANDARD  
DETAIL  
SD-305

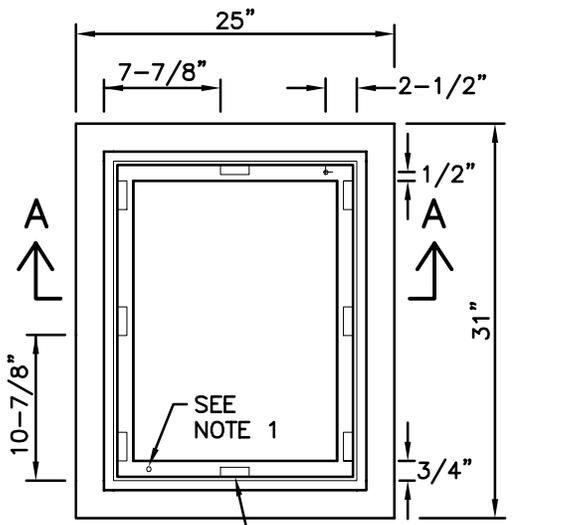


**SECTION A-A**



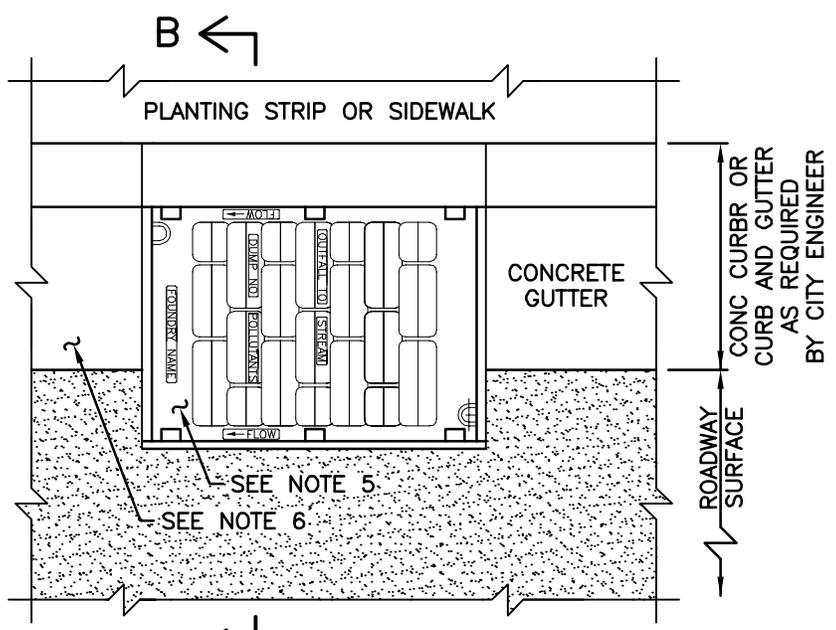
**SECTION B-B**

**VERTICAL CURB OR CURB AND GUTTER**



**PLAN**

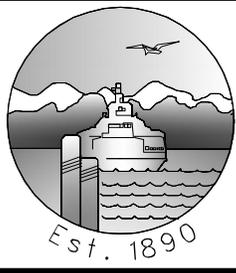
LEVEL PAD 16  
3/4" x 2-1/4" x 1/8"



**PLAN**

**NOTES:**

1. DRILL AND TAP FOR, AND PROVIDE, TWO LOCKING BOLTS 5/8"-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) BOLTS, 2" LONG.
2. FRAME MATERIAL IS CAST IRON PER ASTM A48 CLASS 30 OR BETTER.
3. SET FRAME TO GRADE AND CONSTRUCT ROAD AND GUTTER TO BE FLUSH WITH FRAME.
4. MATCH CENTERLINE OF CATCH BASIN TO CURB LINE FOR TYPE 1 AND 1-L.
5. VANED GRATE SHALL BE INSTALLED ON CONTINUOUS ROAD SLOPES. HERRINGBONE GRATES SHALL BE INSTALLED IN ALL SAGS AND SUMPS.
6. CURB/CURB AND GUTTER AS REQUIRED BY THE CITY ENGINEER.



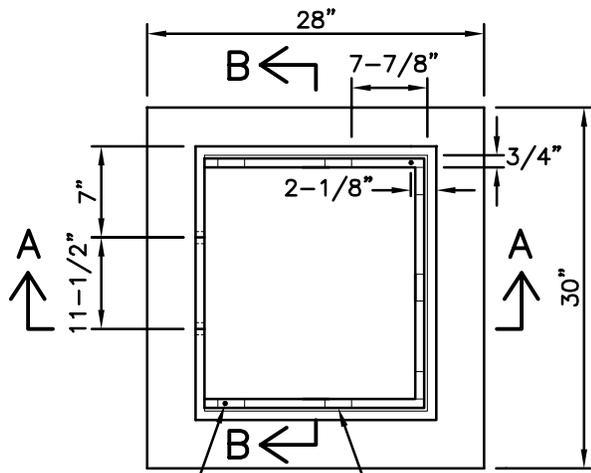
**CITY OF EDMONDS**  
PUBLIC WORKS  
DEPARTMENT

**STANDARD  
FRAME INSTALLATION**

APPROVED BY: **R. ENGLISH**

REVISION DATE  
**JANUARY 2018**

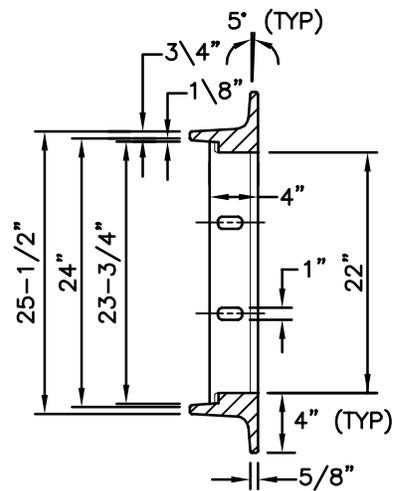
STANDARD  
DETAIL  
**SD-320**



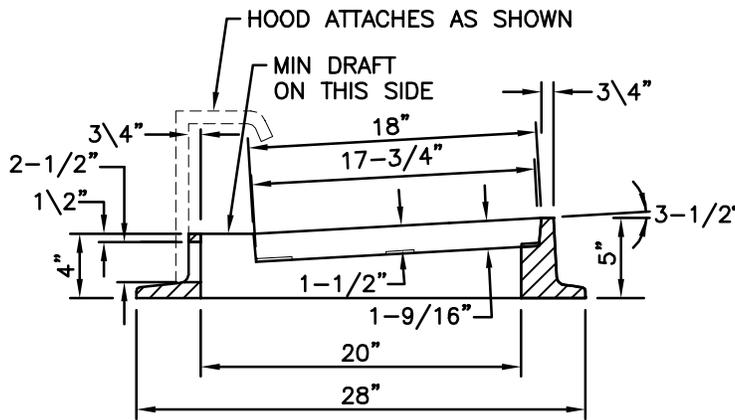
DRILL & TAP TWO  
5/8"-11C HOLES  
THRU FRAME

LEVELING PAD  
7-1/8"x3/4"x2-1/4"  
(TYP)

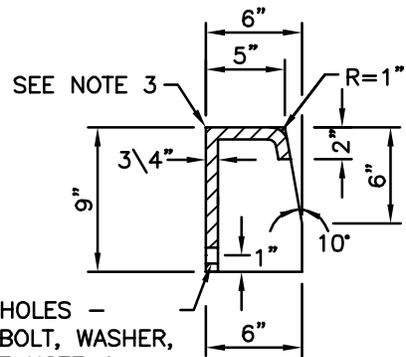
**PLAN**



**SECTION B-B**

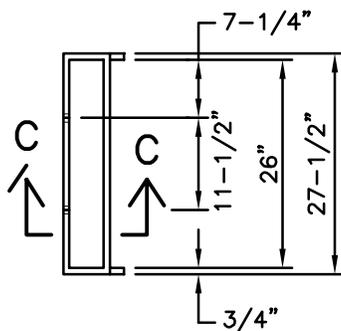


**SECTION A-A**



2-1" DIA. HOLES -  
FOR 3/4" BOLT, WASHER,  
& NUT, SEE NOTE 4

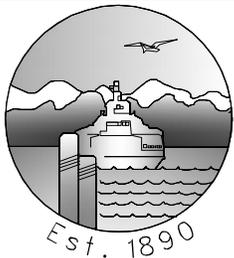
**SECTION C-C**



**HOOD DETAIL**

**NOTES:**

1. MATERIAL SHALL CONFORM TO SECTION 9-05.15(2) OF THE WSDOT STANDARD SPECIFICATIONS.
2. PATTERN ON TOP SURFACE OF HOOD SHALL BE 3/16" NON-SKID DIAMOND.
3. BOLT, WASHER, AND NUT SHALL BE GALVANIZED OR CORROSION RESISTANT.
4. SEE COE STD DTL SD-322 FOR INSTALLATION.



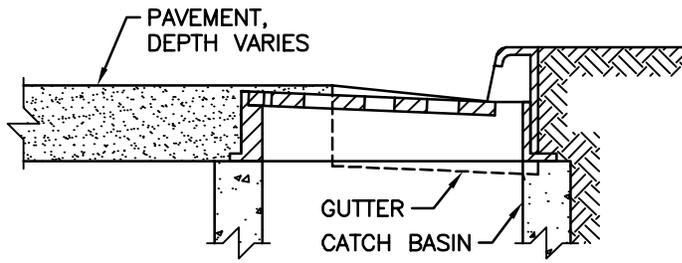
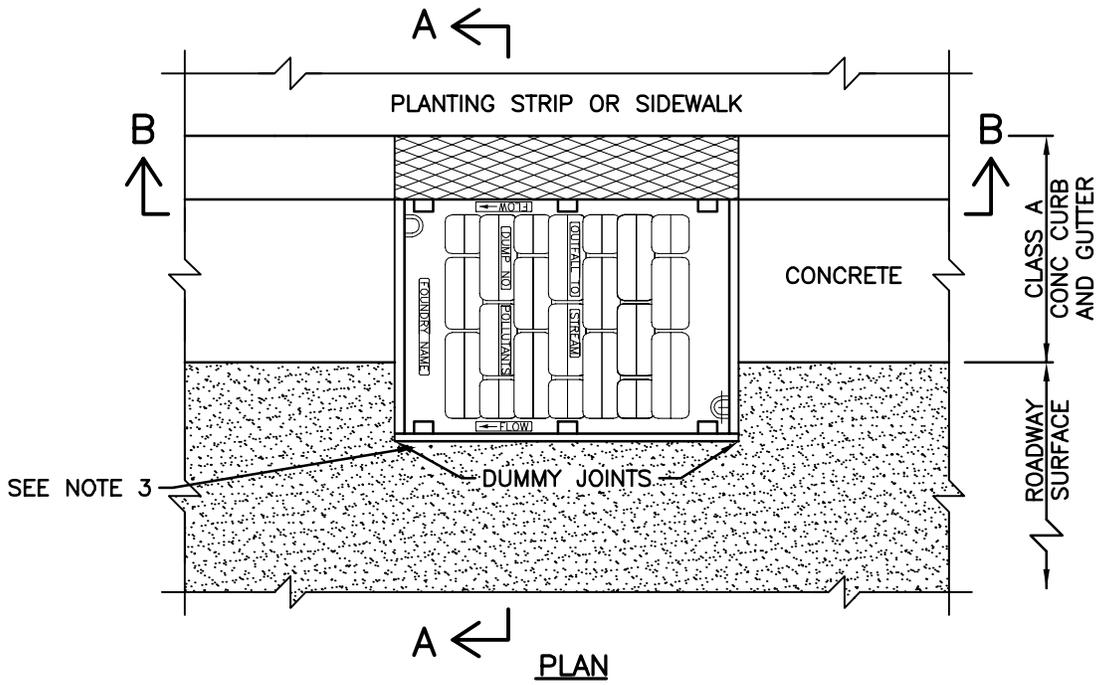
**CITY OF EDMONDS**  
PUBLIC WORKS  
DEPARTMENT

**THROUGH-CURB  
INLET FRAME**

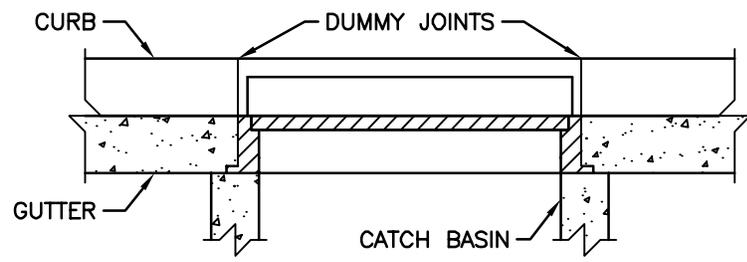
APPROVED BY: **R. ENGLISH**

REVISION DATE  
**JANUARY 2018**

STANDARD  
DETAIL  
**SD-321**



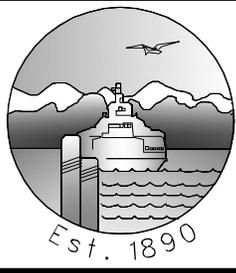
**SECTION A-A**



**SECTION B-B**

**NOTES:**

1. SET TO GRADE AND CONSTRUCT ROAD AND GUTTER TO BE FLUSH WITH FRAME.
2. HOOD SHALL MATCH TOP OF CURB ELEVATION.
3. VANED GRATE SHALL BE INSTALLED ON CONTINUOUS ROAD SLOPES. HERRINGBONE GRATES AND BI-DIRECTIONAL VANED GRATES SHALL BE INSTALLED IN ALL SAGS AND SUMPS.
4. SEE COE STD DTL SD-321 FOR FRAME DETAILS.



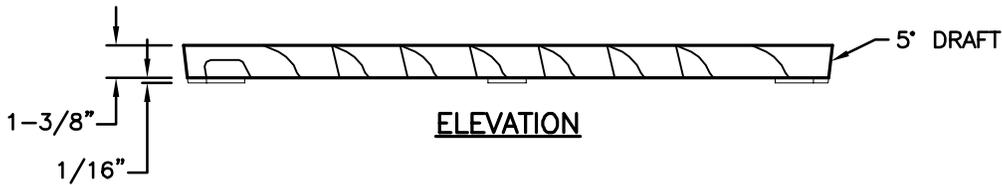
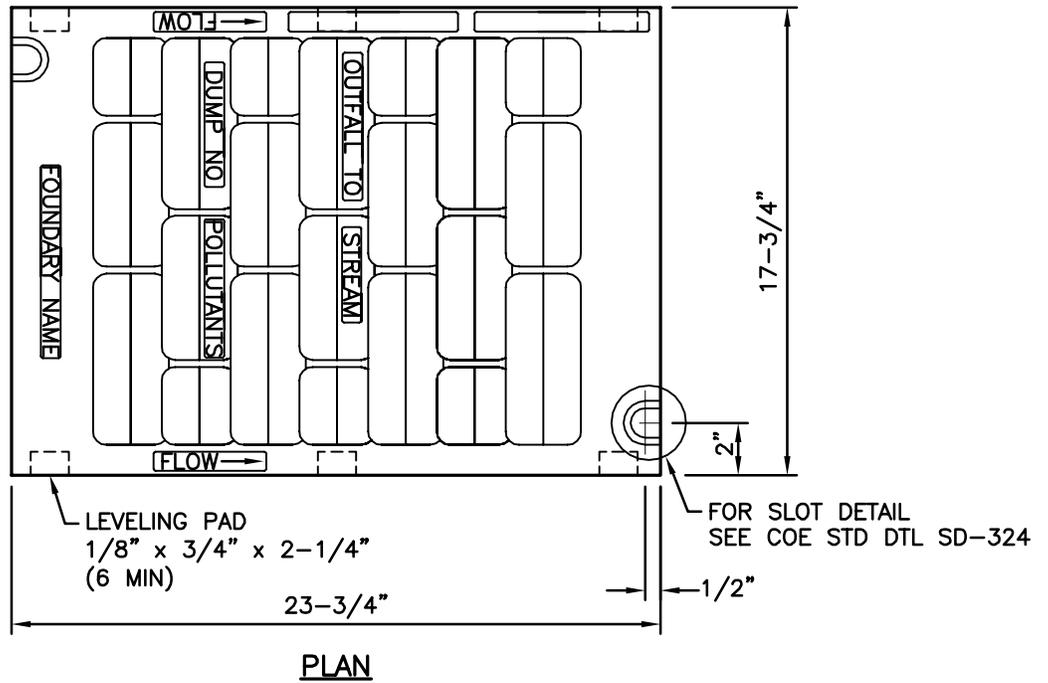
**CITY OF EDMONDS**  
PUBLIC WORKS  
DEPARTMENT

**THROUGH-CURB INLET  
FRAME - INSTALLATION**

APPROVED BY: **R. ENGLISH**

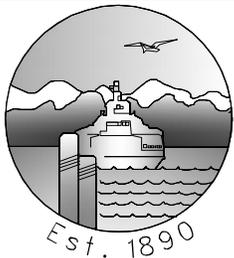
REVISION DATE  
**JANUARY 2018**

STANDARD  
DETAIL  
**SD-322**



**NOTES:**

1. USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) BOLTS, 2" LONG. NOTE SLOT DETAIL.
2. MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06.
3. "OUTFALL TO STREAM DUMP NO POLLUTANTS" IN RAISED LETTERS SHALL BE LOCATED ON GRATE AS SHOWN, BORDER AREA.
4. SHALL CONFORM TO SEC. 7.05 OF THE WSDOT STANDARD SPECIFICATIONS.
5. WELDING IS NOT PERMITTED.
6. USE IN CONTINUOUS SLOPE CONDITIONS ONLY.
7. EDGES SHALL HAVE 0.125" RADIUS, 0.125" CHAMBER OR COMPLETE DEBURRING.
8. USE A THROUGH CURB INLET WITH HERRINGBONE GRATE IN SAG VERTICAL CURVES PER COE STD DTL SD-324.



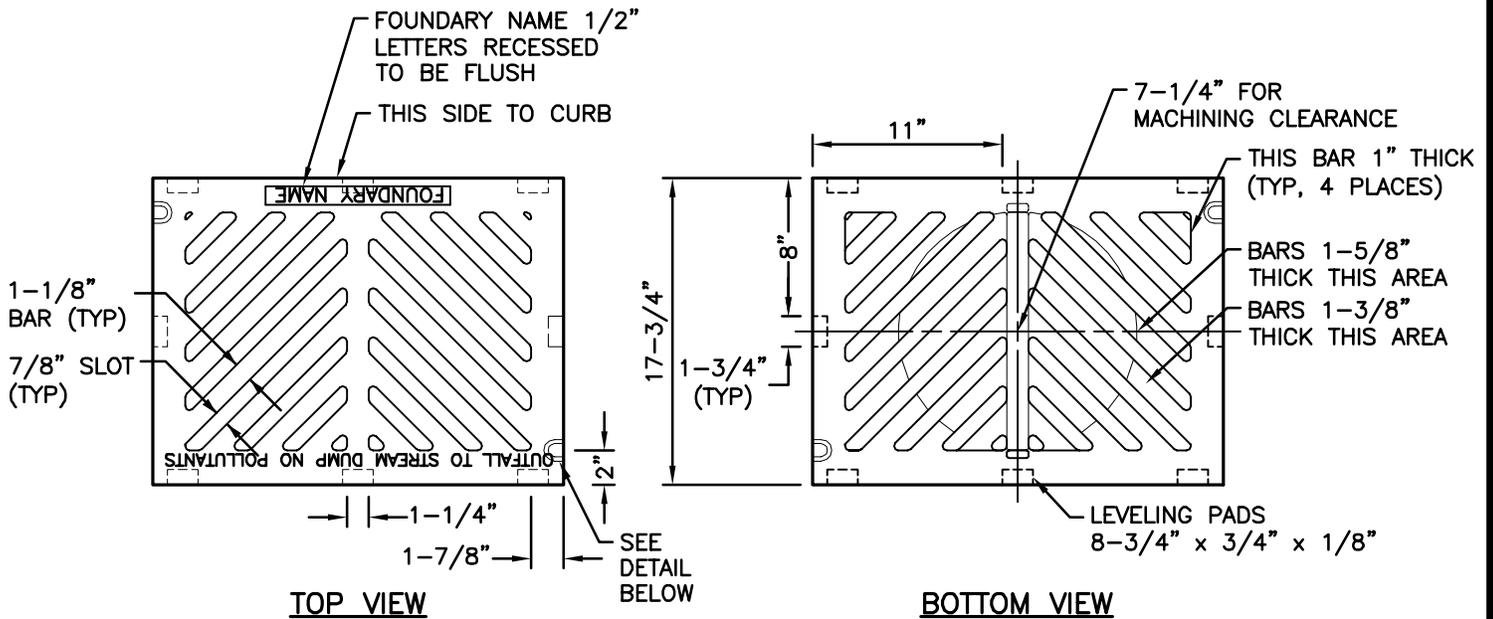
**CITY OF EDMONDS**  
PUBLIC WORKS  
DEPARTMENT

**VANED GRATE**

APPROVED BY: **R. ENGLISH**

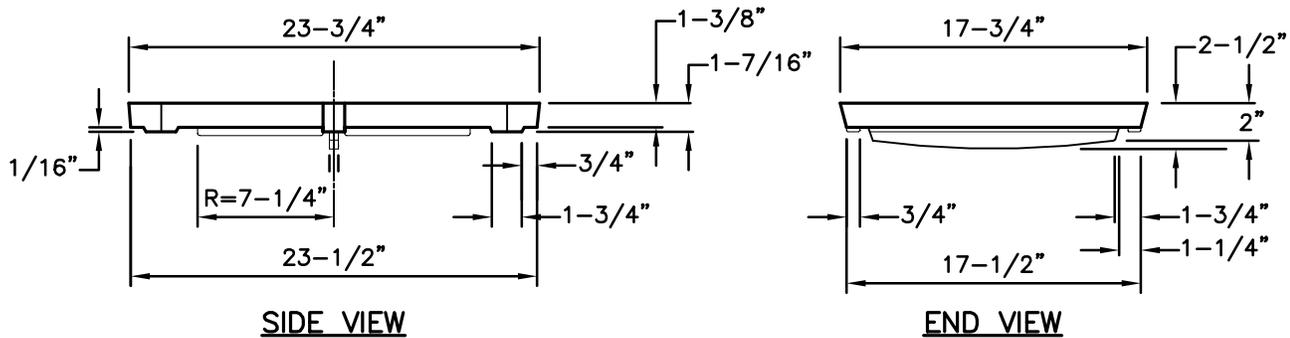
REVISION DATE  
**JANUARY 2018**

STANDARD  
DETAIL  
**SD-323**



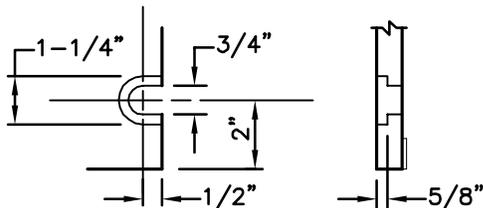
**TOP VIEW**

**BOTTOM VIEW**

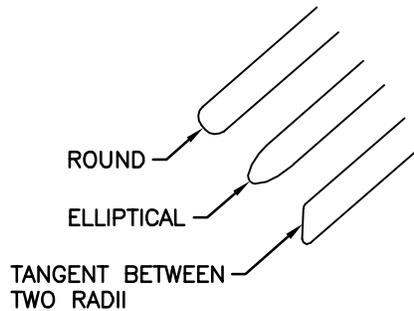


**SIDE VIEW**

**END VIEW**



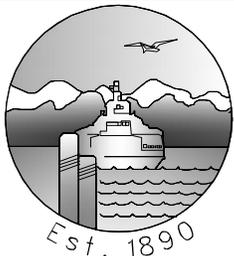
**SLOT DETAIL**  
SEE NOTE 1



**OPTIONAL DESIGN FOR GRATE OPENING ENDS**

**NOTES:**

1. SLOT FORMED AND RECESSED FOR 5/8"-11 NC X 2 SOCKET HEAD (ALLEN HEAD) BOLT.
2. GRATE SHALL BE DUCTILE IRON.
3. SHALL CONFORM TO SEC. 9-05.15 OF THE WSDOT STANDARD SPECIFICATIONS.
4. USE HERRINGBONE GRATE IN CURB LINE OF SAGS AND SUMPS.
5. USE FRAME SHOWN IN STANDARD DETAIL.



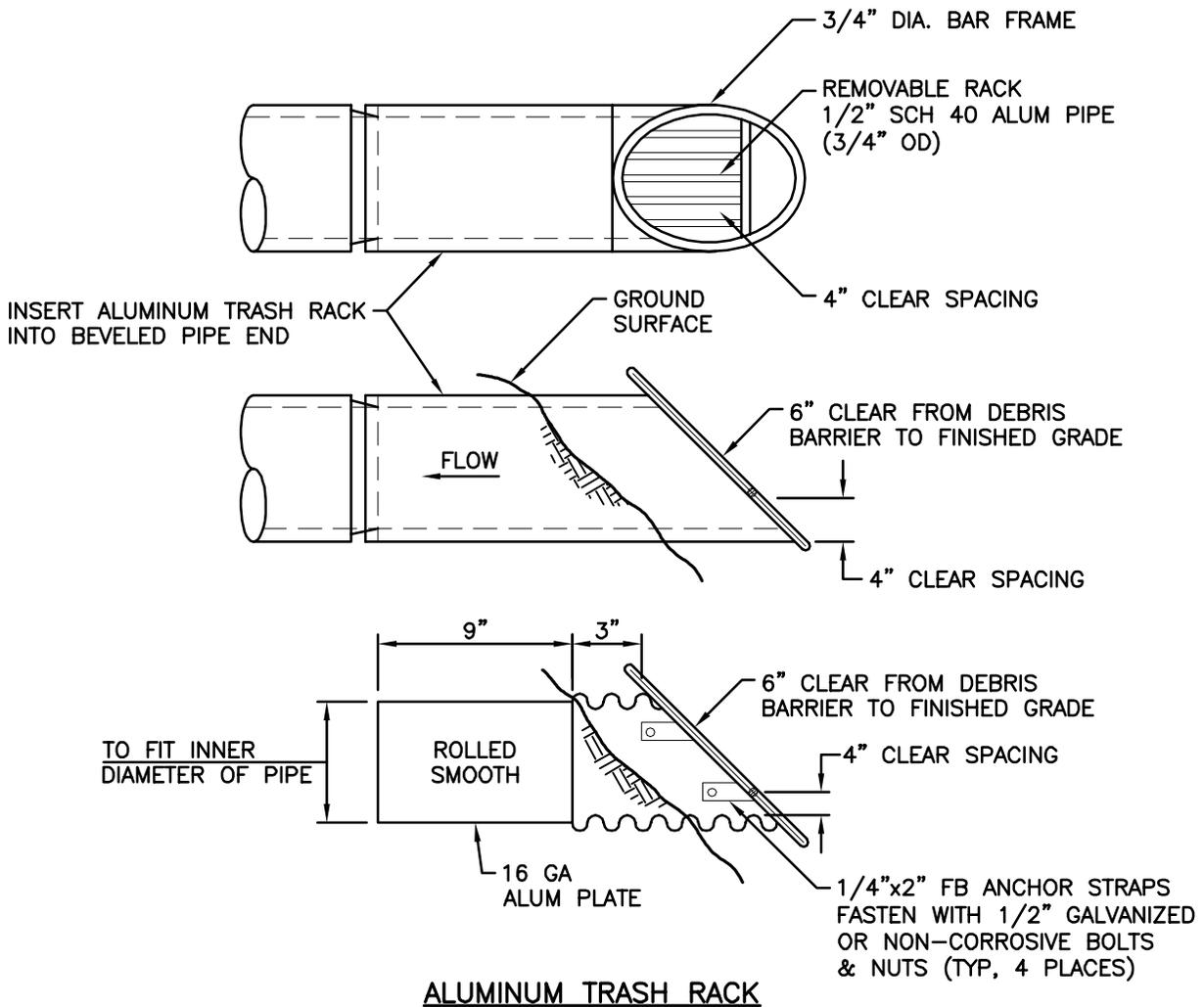
**CITY OF EDMONDS**  
PUBLIC WORKS  
DEPARTMENT

**PARKING LOT/  
AREA GRATE  
(HERRINGBONE)**

APPROVED BY: **R. ENGLISH**

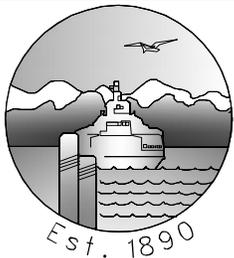
REVISION DATE  
**JANUARY 2018**

STANDARD  
DETAIL  
**SD-324**



**NOTES:**

1. ALL STEEL PARTS MUST BE GALVANIZED AND ASPHALT COATED (TREATMENT 1 OR BETTER).
2. CONTRACTOR TO VERIFY DIMENSIONS.
3. TO BE USED ON PIPE INLETS OF DETENTION PONDS AND ON INLET OF PIPES GREATER THAN 18" DIAMETER. DO NOT USE IN PIPE OUTFALLS.



**CITY OF EDMONDS**  
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DEPARTMENT

**TRASH RACK/  
DEBRIS BARRIER**

APPROVED BY: **R. ENGLISH**

REVISION DATE  
**JANUARY 2018**

STANDARD  
DETAIL  
**SD-330**