#3 Bar each corner

#3 Bar each side top and bottom

One -#3 Bar

ocross bottom

## PORTION OF THE S.E. 1/4, S.E. 1/4, SECTION 4, TOWNSHIP 23 NORTH, RANGE 5 EAST, W.M.

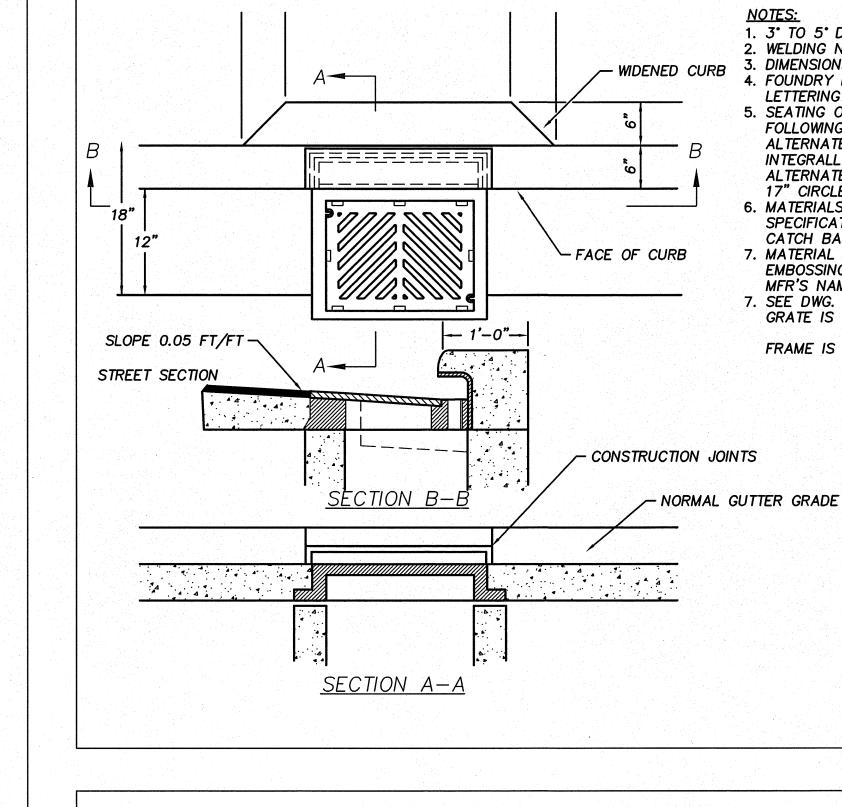
Frame and grate 1. If wire mesh is used as an alternate to rebar, it shall not be placed in the knockouts. (See Standard Plan for details)

2. The bottom of the precast base section shall be minimum 4" thick and may be rounded.

3. Knockouts may be either round or "D" shape. Pipe to be installed in factory supplied knockouts. Hole size shall be equal to pipe outer diameter plus concrete inlet wall thickness, 18" MAX.

4. The taper on the sides of the precast base section and riser section shall not exceed 4%.

5. Frame and grate may be installed with flange down or



1. 3° TO 5° DRAFT PERMITTED AS NEEDED. 2. WELDING NOT PERMITTED.

— WIDENED CURB 3. DIMENSIONS SHALL HAVE ±1/16" TOLERANCE EXCEPT AS NOTED. 4. FOUNDRY NAME SHALL BE EMBOSSED ON TOP OF GRATE. LETTERING TO BE RECESSED 1/16".

5. SEATING OF GRATE SHALL BE ACCOMPLISHED BY ONE OF THE ALTERNATE A SHALL BE 8 PADS, 1 1/2"x 3/4"x 1/8" INTEGRALLY CAST WITH THE GRATE.

ALTERNATE B SHALL BE A MACHINED SURFACE OUTSIDE A

17" CIRCLE, BOTTOM ONLY (SEE SECTION B-B). B. MATERIALS IN ACCORD WITH DIVISION 9 OF STANDARD SPECIFICATIONS SECTION "METAL FRAME AND GRATE FOR CATCH BASIN OR INLETS".

7. MATERIAL USED FOR GRATE SHALL BE DESIGNATED BY EMBOSSING "DI" (DUCT IRON) OR "CFS" (CAST STEEL) NEAR MFR'S NAME.

7. SEE DWG. NAME BR-32 FOR FRAME AND GRATE DETAIL. GRATE IS OLYMPIC FOUNDRY #SM50G, #SM50GL,

#SM50SL, OR EQUAL FRAME IS OLYMPIC FOUNDRY #SM50 OR EQUAL.

> SURFACE WATER UTILITY OPEN CURB FACE FRAME & GRATE INSTALLATION DETAIL CITY OF RENTON STANDARD PLANS

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## CONCRETE INLET



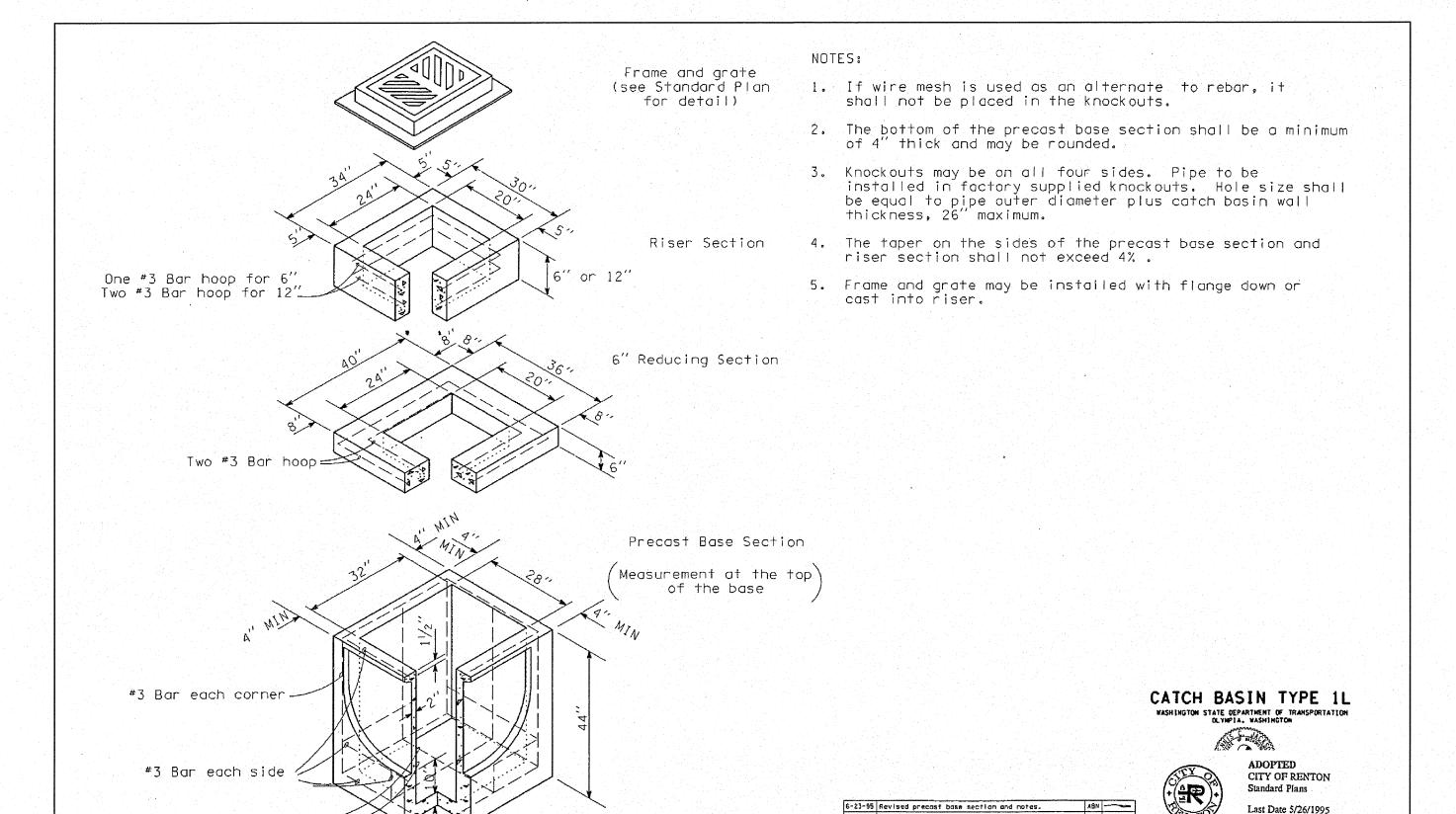
CITY OF RENTON Standard Plans Last Date 1/03/1995

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Last Date 5/26/1995

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Plan No B -01 A



6" Riser Section

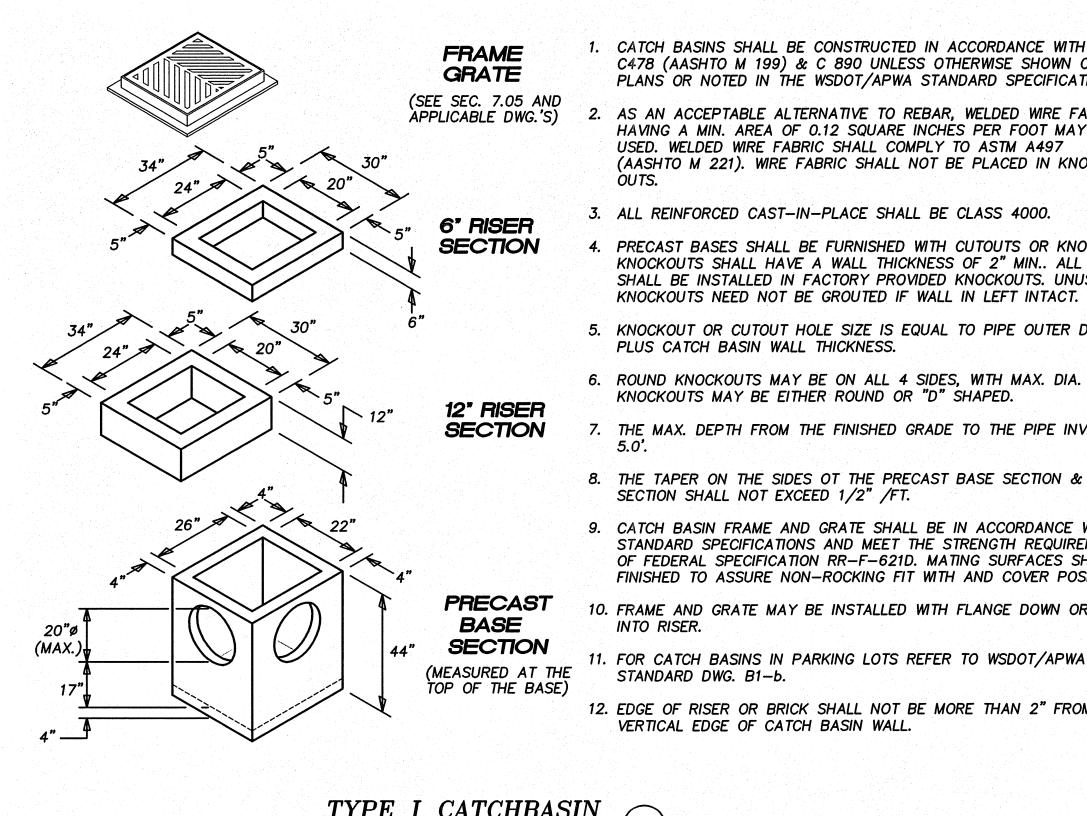
12" Riser Section

Precast Base Section

(Measurement at the top

1-3-99 Revised Precast base section and notes FP

10-11-93 Revised notes and resigned.



- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M 199) & C 890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
- 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 KNOCK-
- 3. ALL REINFORCED CAST-IN-PLACE SHALL BE CLASS 4000.
- 4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN.. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED
- 5. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIA. PLUS CATCH BASIN WALL THICKNESS.
- 6. ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIA. OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPED.
- THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS
- 8. THE TAPER ON THE SIDES OT THE PRECAST BASE SECTION & RISER SECTION SHALL NOT EXCEED 1/2" /FT.
- 9. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621D. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH AND COVER POSITION.
- 10. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST
- 11. FOR CATCH BASINS IN PARKING LOTS REFER TO WSDOT/APWA
- 12. EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.

TYPE I CATCHBASIN

RECOMMENDED CHECKED FOR COMPLIANCE FOR APPROVAL TO CITY STANDARDS \_Date\_ R-337216 \_Date\_



PROJECT NO.: **12007** 

DRAWN BY: VK ISSUE DATE: 12/05/06

SHEET REV.: **07/19/2012** 

STORM DRAINAGE DETAILS

06085DT03-C16.DWG SHEET 16 OF