NOTES:
1. WHEN REQUIRED MULTIPLE UNIT ASSEMBLIES SHALL BE INSTALLED WITH A SINGLE CATCH BASIN ENLARGED ACCORDINGLY.
2. CAST IN PLACE BOXES MAY BE USED WHEN APPROVED BY THE CITY ENGINEER.
3. TOP OF INLET BOX GRATE TO BE RECESSED 2" LOWER THAN FLOWLINE OF GUTTER AS SHOWN IN DETAIL BELOW.
4. CONCRETE TROUGH FLOWLINE REQUIRED PER DETAIL D5 ON IN-LINE/FLOW THRU BOXES.
5. BOX & GRATE GRATE TO MATCH GRADE OF CURB AND GUTTER GRADE.
6. GRATE FRAME TO BE SET DIRECTLY ON TOP OF BOX OR TOP OF PRECAST CONCRETE GRADE RING AT THE ELEVATION 2" LOWER THAN FLOWLINE OF THE CURB AND GUTTER PER THE INLET RECESS DETAIL BELOW.
7. CURB INLET BOX CAN BE USED AS A MANHOLE FOR 12"-18" PIPE IF PLACED IN CURB PER THIS DETAIL USE DETAIL D5 FOR LARGER PIPE SIZES.

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<th>RISER</th>
<th>HEIGHT</th>
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<tr>
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<td>930#</td>
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<tr>
<td>3'</td>
<td>CB233R</td>
<td>2790#</td>
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INLET RECESS DETAIL
NOTE:
ALL EXPOSED METAL PARTS SHALL BE A-36 HOT DIPPED GALVANIZED OR PAINTED AND ALL GALVANIZING DAMAGED BY FABRICATION OR INSTALLATION SHALL RECEIVE TWO COATS OF GALVANIZED PAINT (PAINT TO BE RUSTOLEUM GALVANIZING COMPOUND SPRAY OR EQUAL)
**Cross Section**

**Detail A**
- Inlet
- Metal End Section Contech O.A.E.
- 1/2 x 2 inch bars (typ.)
- 6 inch Min.
- 1/2 x 2 inch bars @ 4 inches o/c

**Detail B**
- Outlet
- Rip Rap D50 = 1/2 x pipe diameter w/ 8 oz. NON-WOVEN GEOTEXTILE FABRIC UNDER RIP-RAP
- Minimum Cover 0.33'
- Slope Per Engineering Standards
- Pipe Per Engineering Standards (size varies)

**Detail C**
- Grate Tie Down
- 1/2 x 2 inch bar welded to grate
- Metal End Section Contech O.A.E.
- 6 inch Min.
- 3/4 inch diameter hole with 5/8 inch bolt and nut w/ washers

**Pipe Per Engineering Standards (size varies)**

**Rip Rap**
- See Detail B

**cedar city**
- 102 west main street
- cedar city, utah, avon
- ph: (435) 564-8443

**storm drain, culvert, & end sections**

**cedar city**
- 7/2/2021

**t.b.m.**

**j.a.s.**
STORM DRAIN MANHOLE

1. CAN USE INLET BOX AS A MANHOLE FOR 12"-18" PIPE IF PLACED IN CURB PER DETAIL D1.

2. MANHOLES IN ROADSWAYS REQUIRE CONC. COLLAR. MANHOLES IN UNIMPROVED AREAS SHALL BE SET 6 TO 12 INCHES ABOVE FINISH GRADE. (NO CONC. COLLAR Req'D)

3. PRE-CAST MANHOLE TO HAVE H-20 LOAD RATING CERTIFICATION.

4. INSTALL NON-SHRINK GROUT BETWEEN ALL CONCRETE GRADE RINGS AND MANHOLE COVER RING.

5. MANHOLE LID, RING AND CONCRETE COLLAR TO BE CENTERED ON MANHOLE OPENING AND SET 1/4 INCH BELOW TOP OF ASPHALT.

6. MANHOLE INLET PIPE INVERT TO BE 0.20 FT HIGHER THAN OUT PIPE INVERT.
SECTION A-A

NOTES:
1. ALL EXPOSED METAL PARTS SHALL BE A-36 GALVANIZED STEEL AND ALL GALVANIZING DAMAGED BY FABRICATION OR INSTALLATION SHALL RECEIVE TWO COATS OF ALUMINUM PAINT (GALVONOX OR EQUAL).
2. GRATING WITH 1 3/4" X 3/16" BARS AND DIAMOND PLATE SHALL ONLY BE USED IN SIDEWALKS.

PLAN VIEW

1/2" STEEL GALV. DIAMOND PLATE OR 1 3/4" HIGH GALV. GRATING WITH 3/16" OR 3/8" WIDE BARS AS NECESSARY (SEE NOTE 2)

2"X2"X1/4" ANGLE (CONT.) FOR DIAMOND PLATE

1/2"X3" STEEL ANCHOR 12" O.C.

USE 1 1/2"X1 3/4"X1/4" ANGLE FOR GRATING

1/2" BAR (CONT.) FOR DIAMOND PLATE

DETAIL 1

DETAIL 2

1/4" STEEL PLATE

3/8" REBAR HAND HOLD WELD TO STEEL PLATE

25"

9-1/2" 6"