CATCH BASIN NO. 61 - PRECAST

INLET SECTION

2 1/2" X 4" X 10" FOUNDATION BOLT
PLACED PERIMETER TO CONSTRUCTION OF CURB (TYP)

EPOXY ON SURFACES
PER NOTE 17

1/2" X 8" SLAB INSERT @ 6" OC CAST INTEGRAL WITH INLET SECTION.

ADJUSTING SCREWS BOTH SIDES.
SEE ADJUSTING SCREW DETAIL ON SHEET 2

3 3/8" GRIDE RING

2 1/2" X 1/2" ANCHORS
INVERT SECTION

1/2" X 1/2" ANCHORS
FOR INLET STEEL PLATE

SHEETS

DEPARTMENT OF PUBLIC WORKS

INVERT SECTION

3 3/8" GRIDE RING

2 1/2" X 1/2" ANCHORS
INVERT SECTION

3 3/8" GRIDE RING

2 1/2" X 1/2" ANCHORS
INVERT SECTION

3 3/8" GRIDE RING

2 1/2" X 1/2" ANCHORS
INVERT SECTION

3 3/8" GRIDE RING

CATCH BASIN INLET DETAIL

NOTE: SEE TOP SLAB REINFORCING PLAN FOR TOP SLAB STEEL DETAILS.

PLAN TOP SLAB REINFORCING PLAN

NOTE: 2 BARS B-C BARS SHALL TERMINATE AT INLET STEEL PLATE. DO NOT WELD.
ADJUSTING SCREW SLOTS

PLAN

TYPICAL JOINT DETAIL

NOTE: REINFORCEMENT STEEL SHOWN SHALL APPLY TO GRADE RINGS ONLY.

ADJUSTING SCREW DETAIL

NOTE: ALLOWABLE OFFSET BETWEEN SECTIONS IS 3/8 INCHES.

STANDARD PLAN NO. S-361-0

VAULT INDEX NUMBER B-3406 SHEET 2 OF 4 SHEETS
STEEL LIST

<table>
<thead>
<tr>
<th>ITEM AND LENGTH</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - BARS</td>
<td>4</td>
</tr>
<tr>
<td>B - BARS</td>
<td>4</td>
</tr>
<tr>
<td>C - BARS</td>
<td>3</td>
</tr>
<tr>
<td>PERIMETER BARS</td>
<td>4</td>
</tr>
<tr>
<td>VERTICAL BARS</td>
<td>1</td>
</tr>
<tr>
<td>TRANS. SECT.</td>
<td>4</td>
</tr>
<tr>
<td>INVERT SECT.</td>
<td>4 Each Opening</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1&quot; plain galvanized protection bar See Notes</td>
</tr>
<tr>
<td></td>
<td>3/4&quot; plain galvanized steps See Notes</td>
</tr>
<tr>
<td></td>
<td>Inlet Steel Plate with 2 each 1/2&quot; Anchors 1 (See Detail)</td>
</tr>
<tr>
<td></td>
<td>Manhole Frame and Cover Set 1</td>
</tr>
</tbody>
</table>

NOTES FOR CATCH BASIN NO. 61 (PRECAST)

1. Catch Basin No. 61 may be installed in lieu of Catch Basin No. 38 when the curb face is 10-inches or less and the V-dimension shown on the project drawings is equal to or larger than the minimum shown hereon.

2. Inlet Steel Plate shall be fabricated from 3/8"x14" Universal Mill Plate and galvanized.

3. Protection Bar:
   a. When the curb face exceeds 9.5 inches, a 1-inch diameter plain round galvanized steel protection bar shall be placed horizontally across the opening of the basin.
   b. One-inch diameter galvanized steel inserts for the protection bar, Burke High Tensile Threaded Insert or equal, shall be cast in each sidewall of the Inlet Section.
   c. The galvanized steel pipe sleeve shall be installed at the downstream end of the catch basin opening. The brass socket set screw shall not be visible in a frontal view of the catch basin opening.

4. Gutter Depression shall be constructed in accordance with the detail for warped gutter per Standard Plan B-3746 unless otherwise specified.

5. Invert Section Floor shall be given a steel trowel finish. Where construction methods do not permit trowelling Class 659-B-3750 concrete shall be used. Invert shall be sloped toward the outlet for Case 1, and toward the flow lines for Cases 2 and 3. The maximum difference in elevation between flow lines and the edge of the floor shall not exceed 3-inches.
6. **Concrete** for the precast sections shall be Class 564-B-3250. When the basin is to be assembled within the limits of a proposed sidewalk, the top 2½-inches of the basin shall be poured monolithic with the sidewalk using the same class of concrete as the sidewalk and shall conform in slope, grade, color, finish and scoring to existing or proposed walk adjacent to the basin.

7. **Standard Manhole Frame and Cover** per Standard Plan B-2189 shall be placed at grade prior to pouring the catch basin top slab and shall be located as shown herein. Install Manhole Cover Locking Device per Standard Plan B-3233.

8. **Dimensions**:

<table>
<thead>
<tr>
<th>Minimum V</th>
<th>3'-11&quot;</th>
<th>3'-6&quot;</th>
<th>3'-9&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>R = 1' - 3&quot;</td>
<td>18&quot;</td>
<td>15&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>S = 0'-9&quot;</td>
<td>unless otherwise specified</td>
<td>See Catch Basin Inlet Detail on Sheet No. 1</td>
<td></td>
</tr>
<tr>
<td>Tm = 0'-1 3/8&quot;</td>
<td>unless otherwise specified</td>
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<td></td>
</tr>
</tbody>
</table>

9. **Joints** of Inlet Section, Transition Section, Grade Rings, and Invert Section shall be filled with Class "C" mortar and neatly pointed on the inside of basin.

10. **Curvature** of the Inlet Section sidewalls shall be formed by curved forms and shall not be made by plastering.

11. **Junction** of Inlet Section and connector pipe(s) shall be filled with Class "C" mortar. Interior surface of the connection shall be smooth, clean and free from pockets and protuberances.

12. **Precast section** shall have handling devices to provide mechanical placement of the sections. The Inlet Section shall have a Superior Concrete Accessories 1" x 3 ½" Type "S" Collar or equal centered on the exterior of each sidewalk. The Transition and Invert Sections shall have slots integrally cast in the interior walls for lifting bars.

13. **Alignment** of the top frontal edge of the Inlet Section shall be aligned with the top frontal edge of the adjacent curb.

14. **Steps** are required 12-inches apart when "V" is greater than 4 feet 6 inches. The top step shall be 2-inches below the soffit and 2½-inches from the wall. Only one step 12-inches from the bottom is required for "V" less than 4 feet 6 inches. Steps shall be 4-bend, 3/4-inch round galvanized steel, 14-inches wide, with 10-inch legs, Alhambra Foundry Company's Step No. A-3309 or equal. The steps shall be 6-inches from the wall of the basin, with the exception of the top step as above. Install steps in basin wall in 1-inch diameter drilled holes and grout.

15. **Anchors** shall be ½-inch round steel anchors or Nelson HAF Head Anchors, or equal, electrically welded, ½-inch in diameter by 8-inches long.

16. **Bedding Material** for the catch basin or any material conforming to the Standard Specification requirements for select material for base shall be spread to a minimum depth of 6-inches over the bottom of the excavation. Bedding for the inlet and outlet pipes shall be Class 470-B-2000 concrete poured between wall of excavation and wall of catch basin per detail on Sheet 3.

17. **Epoxy** that is approved by the Engineer shall be placed on surfaces of Inlet Section before placing gutter.

18. **Monolithic Connection** shall be tied to catch basin with ½-inch diameter by 8-inch long foundation bolts.