STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ADJACENT TO
STATE HIGHWAY
IN SAN DIEGO COUNTY
IN ENCINITAS ON ROUTE 5
AT MANCHESTER AVENUE NB OFF RAMP

To be supplemented by Standard Plans dated July, 1997
WATER QUALITY MONITORING PRECAST CONCRETE PIPE INLET

SECTION A-A

FLOW RESTRICTION PLATE

SECTION B-B

NOTES:
1. INSTALL POLYURETHANE SEALS PER CURRENT STANDARD PRACTICE.
2. SHEET PIPES SHALL NOT PRECEDE INTO BASIN.
3. BASKET BASIN FLOORS SHALL HAVE A RUGGED TRUNNION FINISH.
4. SEE CATALOGUE STANDARD PLANS SERIES 845 FOR DETAILS AND DIMENSIONS OF MACHINAC CAST IRON AND STEEL.

SECTION C-C

DRAINAGE DETAILS

CCO 23
SHEET 38 OF 38
ID-2232804
LOCATION 4
MANCHESTER

NO SCALE

D-5
TRASH RACK FASTENER

SECTION C-C

NOTES:
1. TRASH RACK FASTENERS SHALL BE BOLTED TO INLET AT LOCATIONS SHOWN.
2. ALL MATERIALS AND FABRICATION MATERIALS SHALL BE STAINLESS STEEL.
3. ALL BARS SHALL BE STAINLESS STEEL.

SECTION A-A

PLAN

MODIFIED CONCRETE APRON

ELEVATION

DETAIL 1

SECTION B-B

DRAINAGE DETAILS

ORIFICE OPENING AND DEBRIS SCREEN

DETAIL 2

CCO 23

Sheet 28 of 50

11-235204

Location 4

Manchester
CANAL GATE SECTION

DEBRIS RACK CAGE

PLACE PIPE 50 BARS OF GRATE SHALL BE BURIED WITH PRIMARY SURFACE FLOOR

DEBRIS RACK CAGE

RAW ELEVATION

GATE SEAL

FIELD JOINT

OUTLET PIPE

MODIFIED GMP INLET WITH DEBRIS RACK CAGE

SECTION A-A

NOTE:
1. REMOVE CONCRETE APRON ADJACENT TO THE CANAL GATE, 
   CONSTRUCT AS NECESSARY, AND 
   ACCOMMODATE CANAL GATE MACHINERY.
2. ELEVATIONS PER DRAINAGE PLANS.
3. ALL HARDWARE AND FIXTURES, 
   MATERIAL SHALL BE STAINLESS STEEL.
STORM DRAIN & MANHOLE STRUCTURE (TYPE X BASE)

GENERAL NOTES

1. FITTERS MAY BE MADE OF 150mm, 200mm, 250mm, 300mm, OR 350mm DIAMETER PIPES.
2. FITTERS SHALL BE STANCED IN PLACE TO BE COUPLER PAINTED.
3. PRECAST COMPONENTS FOR UPPER PORTION TYPE MH SHALL BE REPLACED WITH 150mm DIAMETER STEEL HOUSING SPECIFIED IN SECTIONS.
4. MASONRY SHALL BE AS SHOWN ON PLANS.
5. REINFORCING STEEL SHALL BE #10 BARS @ 400mm CENTERS PLACED 400mm CLEAR TO INSIDE OF BOX UNLESS OTHERWISE SHOWN.
6. PIPE(s) MAY BE PLACED IN ANY WALL.
7. DESIGN UNIT STRENGTH 6, 150 NPS, 110-150 NPS.
8. CENTER OF FITTER SHALL BE LOCATED OVER THE CENTERLINE OF MAIN STORM DRAIN.
9. THICKNESS OF DECK SHALL VARY WHEN NECESSARY TO PROVIDE LEVEL MANHOLE SEAT.
10. BOTTOMS SHALL HAVE A NOSE MODEL FINISH
11. UPPER PORTION OF PIPE WILL BE MADE FOR AS PRECAST CONCRETE PIPE FITTER.
12. NO DEDUCTIONS IN STRUCTURE CONCRETE QUANTITIES WILL BE MADE FOR PIPE OPENINGS.

UPPER STRUCTURE

TYPICAL UPPER STRUCTURE AND MANHOLE JUNCTION

DRAINAGE DETAILS

CCO 23
Sheet 29 of 39
11-2383504
Location 4
Manchester
STORM DRAIN & MANHOLE STRUCTURE (TYPE Y BASE)

DRAINAGE DETAILS

SECTION A-A

SECTION B-B

SECTION C-C

NOTES
REINFORCING STEEL SHALL BE PLACED
NO MORE THAN 100 MM CLEAR TO INSIDE OF BOUL.
### APC ALLOWABLE PIPE MATERIAL AND PROTECTION

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<tr>
<th>DESIGNATION</th>
<th>PVC</th>
<th>PLASTIC</th>
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<tr>
<td>600 mm APC</td>
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### LEGEND AND ABBREVIATIONS

- B - BACKFILL
- S - SMOOTH HINGE WALL
- M - WATER QUALITY MONITORING
- K - WATER JIINT

### CCO 23

### SHEET 3 OF 3

### JOB: 28804

### LOCATION 4

### MANCHESTER

### DRAINAGE QUANTITIES

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<th>PSN</th>
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### DRAINAGE QUANTITIES

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* See SHEET C-1 for additional drainage quantities. (1) Not a separate PSN item, for information only.
## ROADWAY ITEMS

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## EARTHWORK

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(Not a pay item, for information only)

## MINOR CONCRETE (PCC CURBS)

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## MINOR CONCRETE (MINOR STRUCTURE)

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## SUMMARY OF QUANTITIES

CCO 23
Sheet 37 of 90
91-286504
Location 4
Manchester