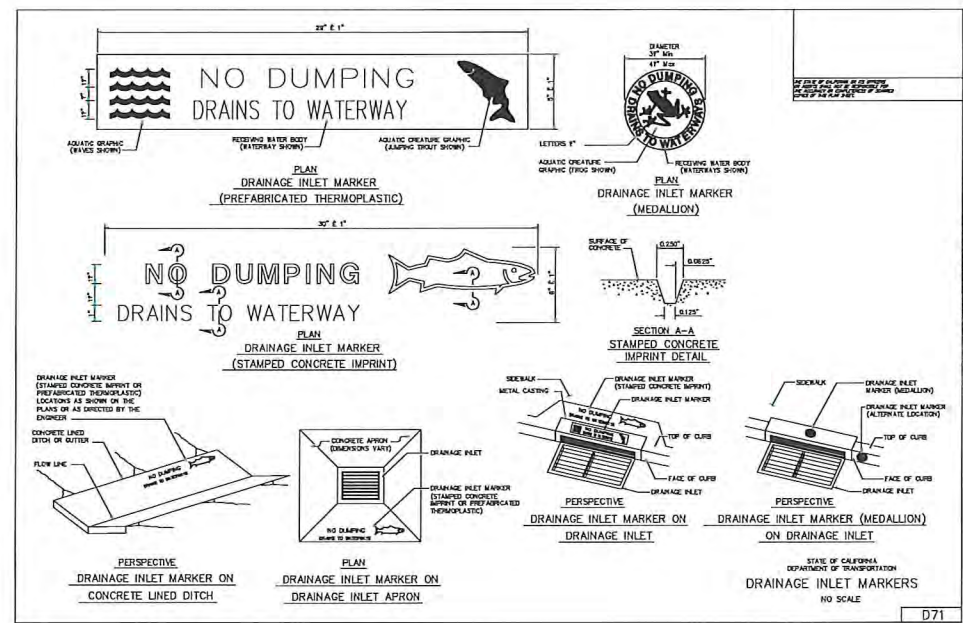


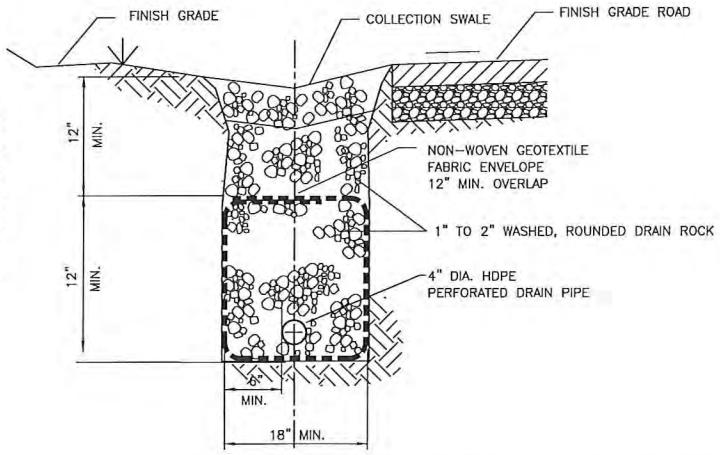
- NOTES:**
1. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, (CURB AND GUTTER TRANSITION ONLY, ALL UNEXPOSED CONCRETE MAY BE 3000 PSI) MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202.
 2. REINFORCING STEEL SHALL BE GRADE 40 AND HAVE 1.5" MINIMUM CLEAR COVER.
 3. CONCRETE STRUCTURE MAY BE A PRE-CAST CONCRETE UNIT UPON APPROVAL OF THE CITY ENGINEER. BASE OF PRE-CAST CONCRETE UNIT SHALL BE PLACED ON 6" COMPACTED DRAIN ROCK.
 4. FRAME SHALL BE NEENAH R-3294, R-3295 OR R-3067 SINGLE CURB UNIT WITH A TYPE L "VANE GRATE" AND CURB BOX, SOUTH BAY FOUNDRY VANE GRATE SBF 1947 OR APPROVED EQUAL, INSTALLED WITH PROPER FLOW DIRECTION.
 5. TILT FRAME & GRATE AS REQUIRED TO ATTAIN 6" MIN. FLOW OPENING & INSTALL DURABLE SHIMS BETWEEN THE CURB BOX & FRAME AS REQUIRED TO MATCH CURB BOX TO TOP OF CURB AND FACE OF CURB (SEE SECTION B-B).
 6. CONCRETE SHALL BE PLACED AS SHOWN WHEN NOT LOCATED IN A SIDEWALK.
 7. CURB BOX SHALL BE EMBOSSED OR STAMPED WITH THE WORDS "NO DUMPING DRAINS TO WATERWAY". PAINTING THE WORDS SHALL NOT BE A SUBSTITUTION. (SEE CALTRANS D71)
 8. DEBRIS AND SEDIMENT CONTROL DEVICE SHALL BE USED IN ALL DROP INLET APPLICATIONS.

NOTE:
SAND/OIL SEPARATOR TO BE ATTACHED TO DROP INLET WALL, PER ORIGINAL DETAIL, WITH (4) 3/8" DIA. REDHEADS.

1 CATCH BASIN TYPE 4R W/ OIL & SEDIMENT SEPARATOR
N.T.S.



CATCH BASIN GRATE MARKINGS DETAIL
N.T.S.

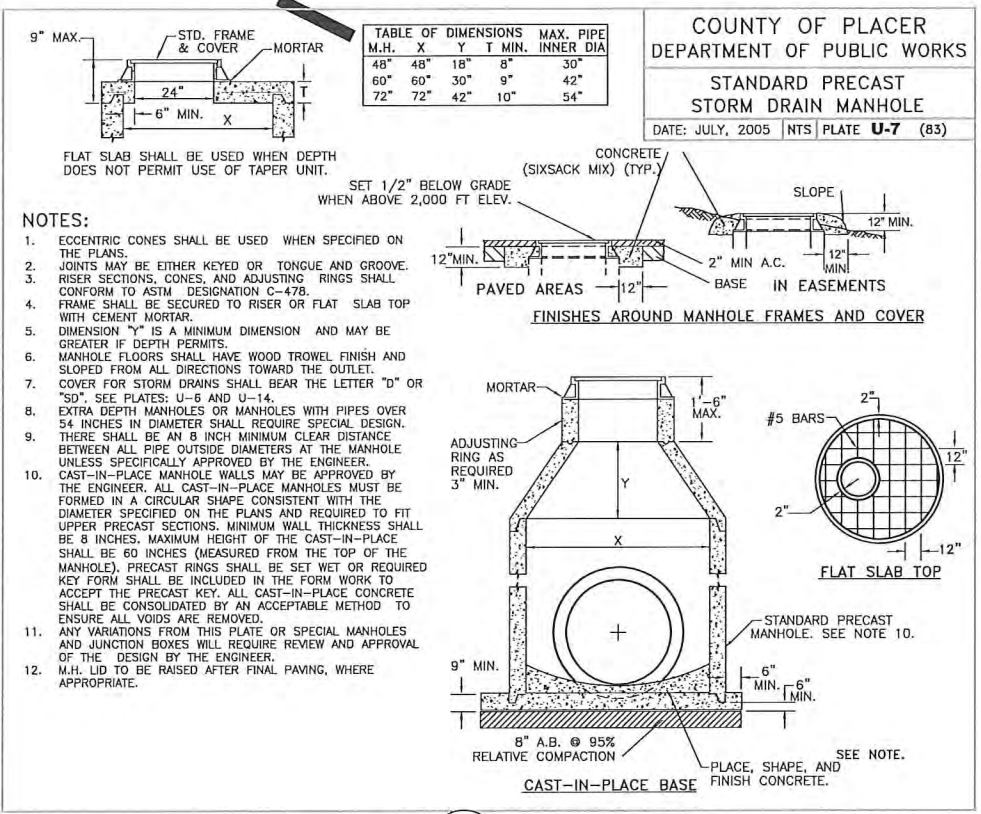


INTERCEPTION / INFILTRATION TRENCH DRAIN SYSTEM
N.T.S.

2 C8.2



PLACER COUNTY TRPA SUBMITTAL DATE: 07-29-15

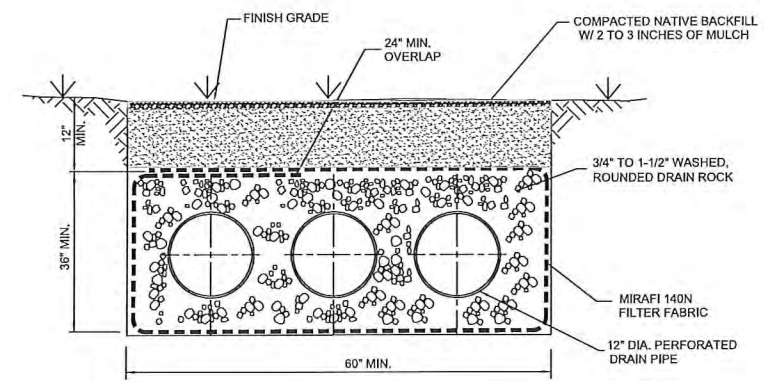


- NOTES:**
1. ECCENTRIC CONES SHALL BE USED WHEN SPECIFIED ON THE PLANS.
 2. JOINTS MAY BE EITHER KEYED OR TONGUE AND GROOVE.
 3. RISER SECTIONS, CONES, AND ADJUSTING RINGS SHALL CONFORM TO ASTM DESIGNATION C-478.
 4. FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH CEMENT MORTAR.
 5. DIMENSION "Y" IS A MINIMUM DIMENSION AND MAY BE GREATER IF DEPTH PERMITS.
 6. MANHOLE FLOORS SHALL HAVE WOOD TROWEL FINISH AND SLOPED FROM ALL DIRECTIONS TOWARD THE OUTLET.
 7. COVER FOR STORM DRAINS SHALL BEAR THE LETTER "D" OR "SD". SEE PLATES: U-6 AND U-14.
 8. EXTRA DEPTH MANHOLES OR MANHOLES WITH PIPES OVER 54 INCHES IN DIAMETER SHALL REQUIRE SPECIAL DESIGN.
 9. THERE SHALL BE AN 8 INCH MINIMUM CLEAR DISTANCE BETWEEN ALL PIPE OUTSIDE DIAMETERS AT THE MANHOLE UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
 10. CAST-IN-PLACE MANHOLE WALLS MAY BE APPROVED BY THE ENGINEER. ALL CAST-IN-PLACE MANHOLES MUST BE FORMED IN A CIRCULAR SHAPE CONSISTENT WITH THE DIAMETER SPECIFIED ON THE PLANS AND REQUIRED TO FIT UPPER PRECAST SECTIONS. MINIMUM WALL THICKNESS SHALL BE 8 INCHES. MAXIMUM HEIGHT OF THE CAST-IN-PLACE SHALL BE 60 INCHES (MEASURED FROM THE TOP OF THE MANHOLE). PRECAST RINGS SHALL BE SET WET OR REQUIRED KEY FORM SHALL BE INCLUDED IN THE FORM WORK TO ACCEPT THE PRECAST KEY. ALL CAST-IN-PLACE CONCRETE SHALL BE CONSOLIDATED BY AN ACCEPTABLE METHOD TO ENSURE ALL VOIDS ARE REMOVED.
 11. ANY VARIATIONS FROM THIS PLATE OR SPECIAL MANHOLES AND JUNCTION BOXES WILL REQUIRE REVIEW AND APPROVAL OF THE DESIGN BY THE ENGINEER.
 12. M.H. LID TO BE RAISED AFTER FINAL PAVING, WHERE APPROPRIATE.

M.H.	X	Y	T	MIN.	MAX. PIPE INNER DIA
48"	48"	18"	8"	30"	
60"	60"	30"	9"	42"	
72"	72"	42"	10"	54"	

COUNTY OF PLACER
DEPARTMENT OF PUBLIC WORKS
STANDARD PRECAST STORM DRAIN MANHOLE
DATE: JULY, 2005 NTS PLATE U-7 (83)

5 STORM DRAIN MANHOLE
N.T.S.



NOTE:
ENDS OF INFILTRATION TRENCHES SHALL ALSO BE WRAPPED WITH MIRAFI 140N FILTER FABRIC WITH A 24" MIN OVERLAP.

- NOTES:**
1. REFER TO "CONTECH CONSTRUCTION PRODUCTS INC." WATER DETENTION AND RECHARGE SYSTEMS FOR SPECIFICATIONS, OR EQUIVALENT, APPROVED BY THE ENGINEER.
 2. THE USE OF PRE-MANUFACTURED WATER DETENTION UNITS REQUIRES THE APPROVAL OF THE ENGINEER.
 3. IF PRE-MANUFACTURED UNIT IS USED, REFER TO MANUFACTURER'S SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND INFILTRATION BASINS.

DRY WELL INFILTRATION TRENCH
N.T.S.

6 C8.2

BROCKWAY CAMPGROUND
PLACER COUNTY, CALIFORNIA

SIERRA PACIFIC INDUSTRIES
PO BOX 496028 REDDING, CA.
(530) 378-8000

WELSH HAGEN ASSOCIATES
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PRELIMINARY NOT FOR CONSTRUCTION

STORM DRAINAGE DETAILS

Project: 404100
Drawn By: BAMF
Checked By: DLH
Scale: AS-NOTED
Date: JULY 2015
Sheet Number:

C8.2

RECORD DRAWINGS
DATE _____ ENGINEER INITIAL _____