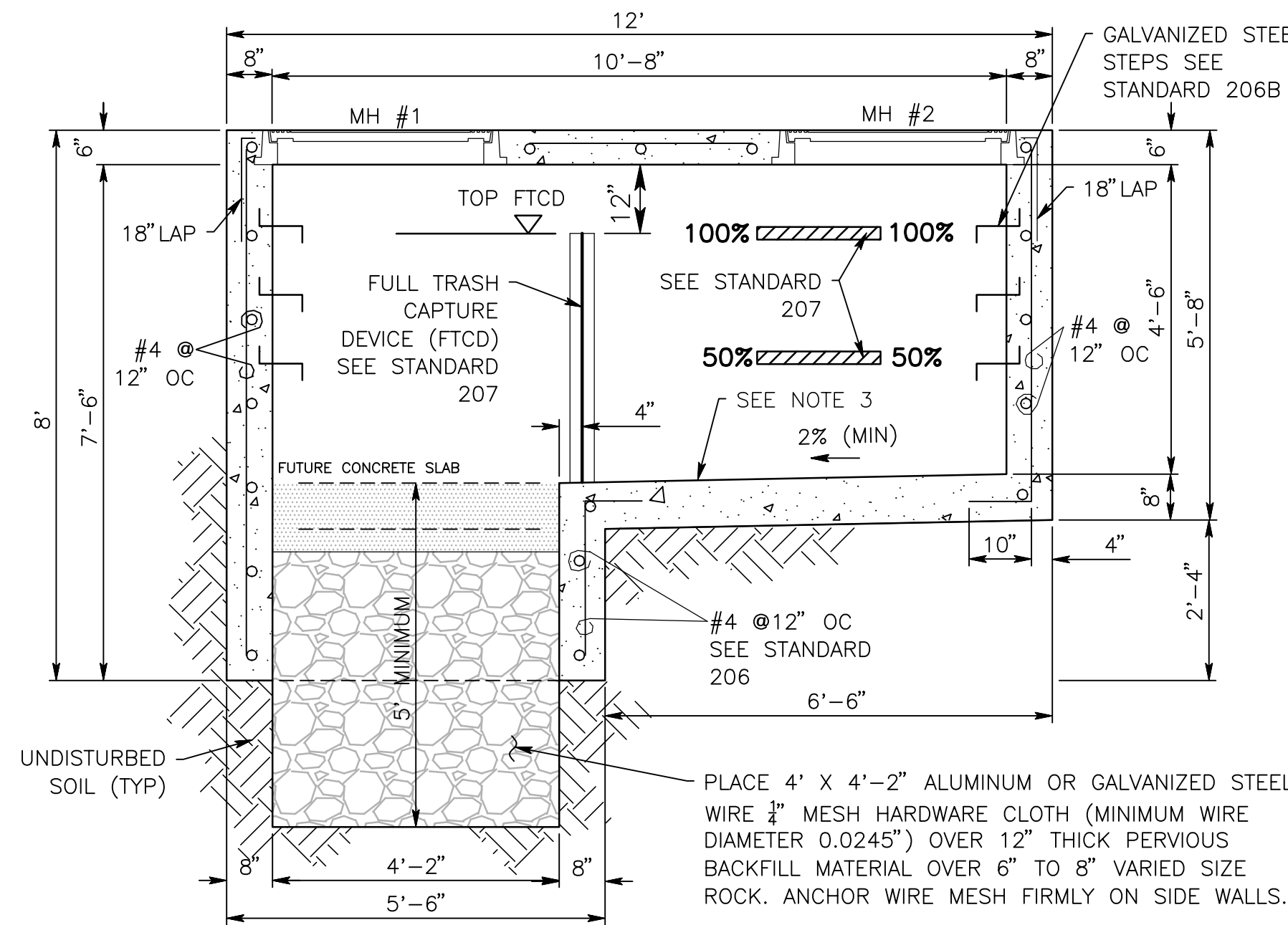
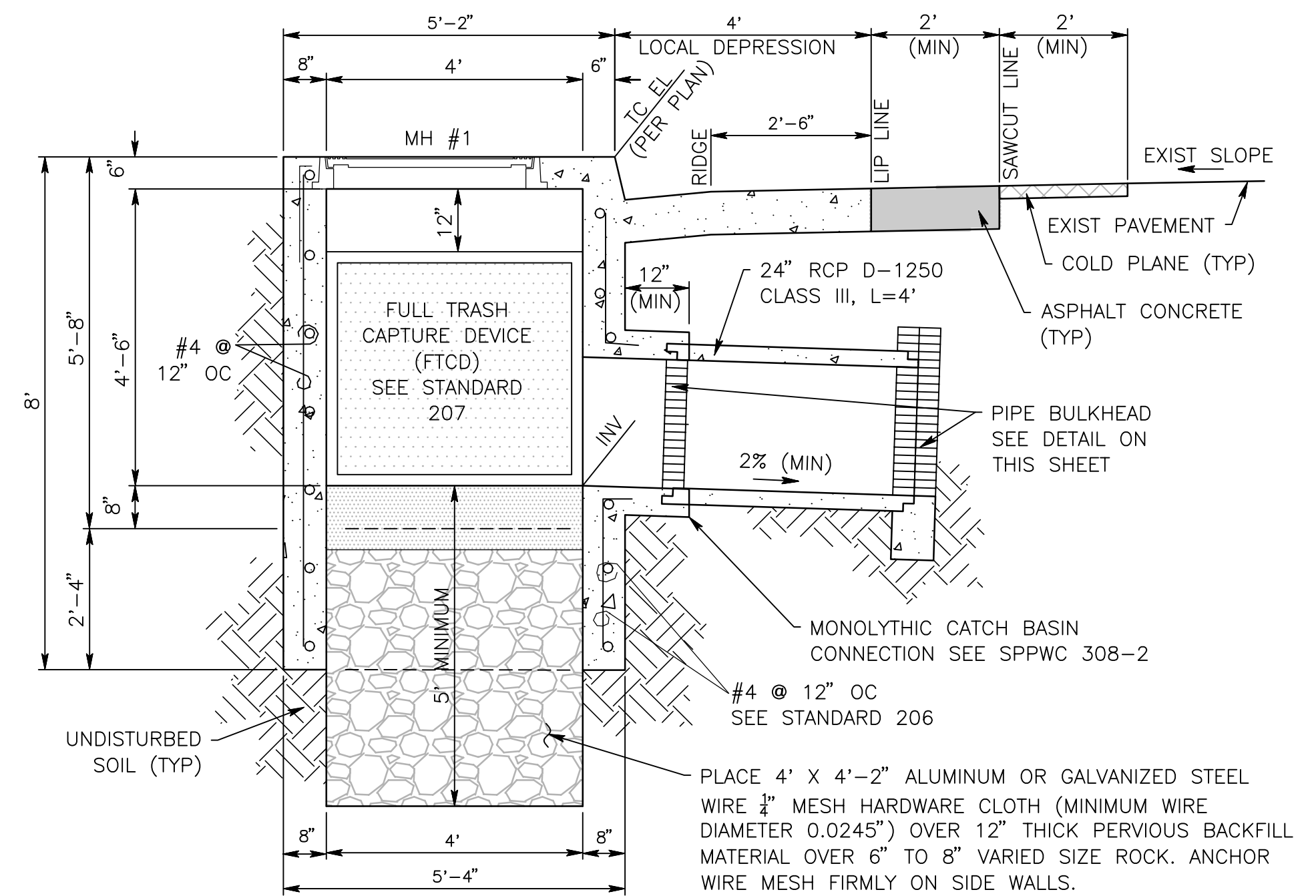


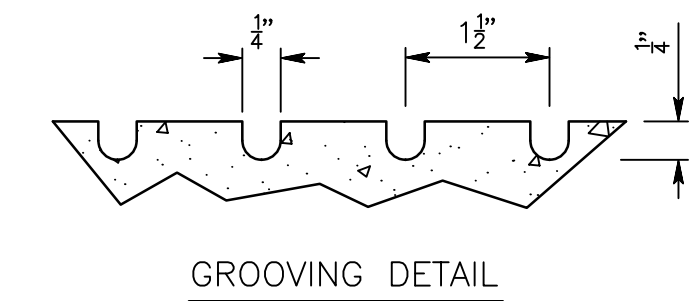
PLAN BMP INFILTRATION DRAINAGE INLET



SECTION "A-A"



SECTION "B-B"



GROOVING DETAIL

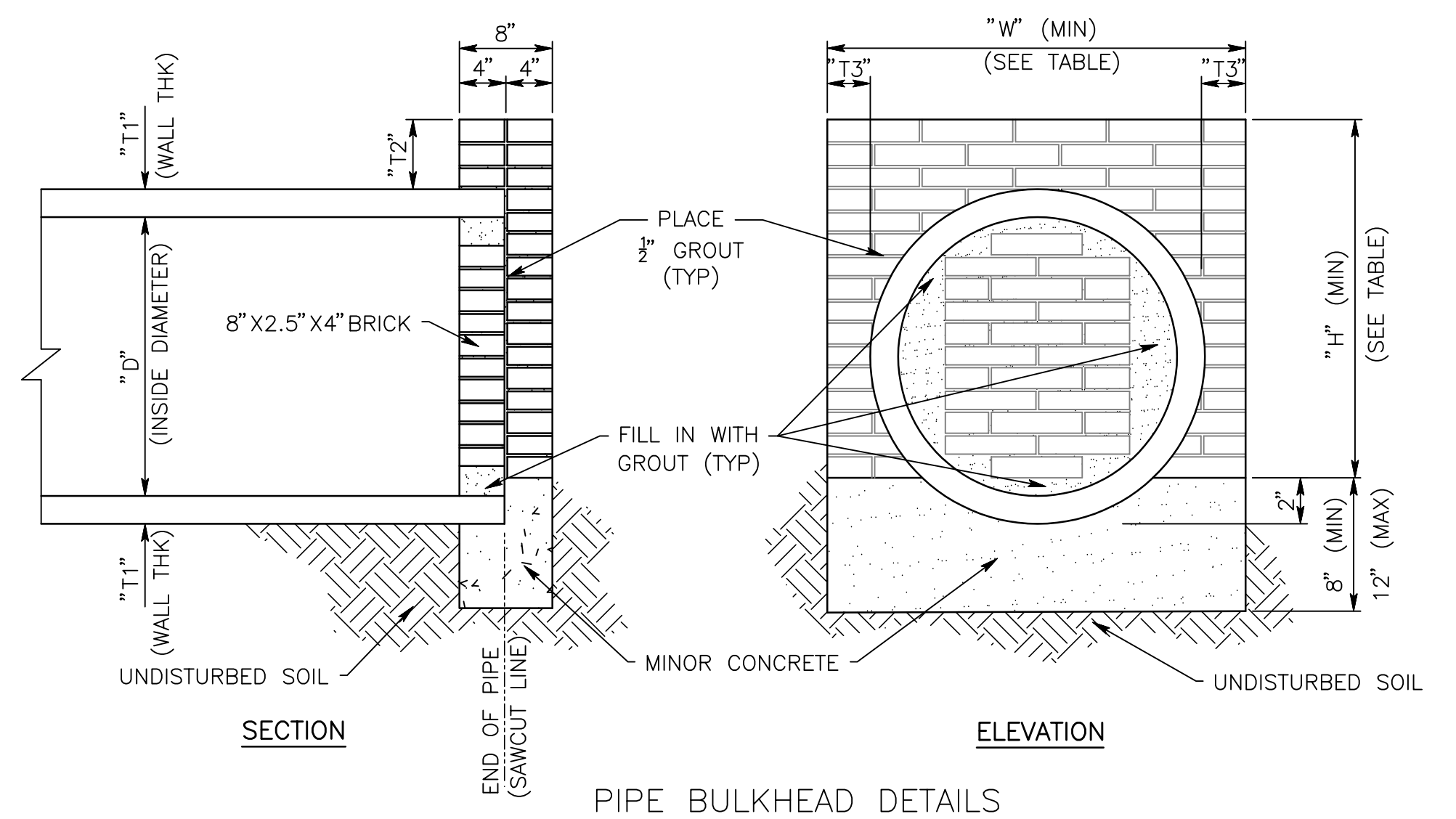
**TO BE SUPPLEMENTED BY THE FOLLOWING SAN BERNARDINO COUNTY STANDARD DRAWINGS:**

- STANDARD 203B LOCAL DEPRESSION
- STANDARD 206 CATCH BASIN
- STANDARD 205 MANHOLE
- STANDARD 206A CATCH BASIN OPENING
- STANDARD 206B GALVANIZED STEEL STEP
- STANDARD 207 FULL TRASH CAPTURE DEVICE

- BMP = BEST MANAGEMENT PRACTICES
- CF = CURB FACE
- C&G = CURB AND GUTTER
- EL = ELEVATION
- EXIST = EXISTING
- FTCD = FULL TRASH CAPTURE DEVICE
- MAX = MAXIMUM
- MH = MANHOLE
- MIN = MINIMUM
- NPDES = NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
- OC = ON CENTER
- PROP = PROPOSED
- RCP = REINFORCED CONCRETE PIPE
- TC = TOP OF CURB
- THK = THICKNESS
- TYP = TYPICAL

**TO BE SUPPLEMENTED BY THE FOLLOWING SPPWC STANDARD DRAWINGS:**

- STANDARD DRAWING 308-2 MONOLITHIC CATCH BASIN CONNECTION



PIPE BULKHEAD DETAILS

INSIDE DIAMETER (INCHES)	STANDARD WALL THICKNESS (INCHES)	THICKNESS (INCHES)	THICKNESS (INCHES)	HEIGHT (INCHES)	WIDTH (INCHES)
"D"	"T1"	"T2"	"T3"	"H"	"W"
12	2	6.0	8.0	22.0	32.0
15	2	6.0	8.0	25.0	35.0
18	2.25	6.0	8.0	28.5	38.5
21	2.375	6.0	8.0	31.8	41.8
24	2.5	6.0	8.0	35.0	45.0
27	2.625	6.0	8.0	38.3	48.3
30	2.75	6.0	8.0	41.5	51.5
33	2.875	6.0	8.0	44.8	54.8
36	3.125	6.0	8.0	48.3	58.3
39	3.5	6.0	8.0	52.0	62.0
42	3.75	6.0	8.0	55.5	65.5
45	3.9375	6.0	8.0	58.9	68.9
48	4.125	6.0	8.0	62.3	72.3

BULKHEAD NOTES:

1. THE TABLE ABOVE ONLY APPLIES TO REINFORCED CONCRETE PIPE (RCP). FOR OTHER TYPES OF PIPES, LIKE CMP ECT, FIND THE WALL THICKNESS FIRST AND APPLY THE FOLLOWING EQUATIONS:  
 WIDTH =  $D + 2(T1) + 2(T3)$   
 HEIGHT =  $D + 2(T1) + T2$
2. USE 8"X 2.5" X 4" CLAY SOLID BRICK OR APPROVED EQUIVALENT AND PLACE 1/2" GROUT IN-BETWEEN LAYERS

- NOTES:
1. FOR BULKHEAD CONSTRUCTION AND SPECIFICATIONS REFER TO DETAILS ON THIS SHEET.
  2. LOCAL DEPRESSION AND STRUCTURAL INLETS SHALL BE CONSTRUCTED OF 8" THICK MINOR CONCRETE, REFER TO COUNTY STANDARD 203B.
  3. THE CATCH BASIN FLOOR WITH 2% MINIMUM SLOPE, AS SHOWN ON THE PLAN, SHALL HAVE A SLIP RESISTANT SURFACE IN ORDER TO AVOID WATER PONDING AND PROVIDE CONTINUOUS FLOW INTO THE THE PIT. THEREFOR, THE CONTRACTOR SHALL PROVIDE 1/4 INCH GROOVING AT 1.5 INCH OC PARALLEL TEXTURE ON THE ENTIRE SLOPING AREA OF THE CATCH BASIN FLOOR, SEE GROOVING DETAIL ON THIS SHEET. FOR CATCH BASIN CONSTRUCTION AND SPECIFICATIONS REFER TO STANDARD DRAWING 206.
  4. FOR 36" DIAMETER MANHOLE FRAME AND COVER INSTALLATION AND OTHER DETAILS REFER TO STANDARD DRAWING 205.
  5. FOR CATCH BASIN OPENING DETAILS REFER TO STANDARD DRAWING 206A.
  6. FOR PLACEMENT OF GALVANIZED STEEL BARS AND STEPS REFER TO STANDARD DRAWING 206B.
  7. FOR INSTALLATION AND SPECIFICATIONS OF FULL TRASH CAPTURE DEVICE (FTCD) REFER TO STANDARD DRAWING 207.
  8. FOR MONOLITHIC CATCH BASIN CONNECTION SEE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION STANDARD DRAWING 308-2.
  9. THE BMP INFILTRATION INLET SHALL INCLUDE MAINTENANCE GAUGE STENCILING ON THE INTERIOR WALL TO IDENTIFY THE ACCUMULATED DEBRIS ELEVATION AT 50% AND 100% OF THE FTCD HEIGHT AS SHOWN ON STANDARD DRAWING 207.
  10. IF NOT SPECIFIED ON PLAN USE 0.67" THICK ASPHALT CONCRETE (TYPE A) PAVEMENT OVER NATIVE SOIL FOR SAWCUT AREA AT LOCAL DEPRESSION AND 0.20" COLD PLANE CONNECTION OR AS DIRECTED BY THE ENGINEER.
  11. ELEVATIONS SHALL BE AS SHOWN ON THE PLANS. OTHERWISE THE OUTER EDGE OF THE LOCAL DEPRESSION SHALL CONFORM TO EXISTING FINISHED SURFACE OF THE ROAD.
  12. THE BMP INFILTRATION DRAINAGE INLET FACILITY SHALL BE MAINTAINED PERIODICALLY AT LEAST ONCE EVERY 6 MONTHS IN COMPLIANCE WITH NPDES REQUIREMENTS.
  13. THE FACT THAT ANY UTILITY IS OR IS NOT SHOWN IN THESE PLANS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY UNDER SECTION 5-1.36D "NON-HIGHWAY FACILITIES" OF THE CALTRANS STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY, PURSUANT THERETO, TO ASCERTAIN THE LOCATION OF ANY UTILITY FACILITY WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF CONTRACTORS OPERATIONS.

