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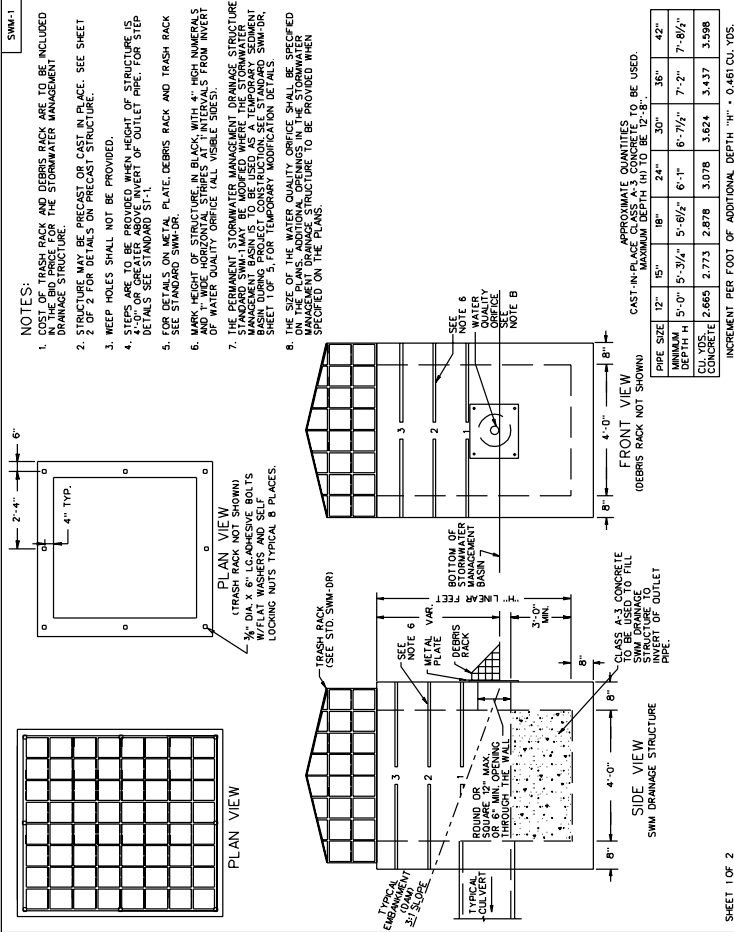
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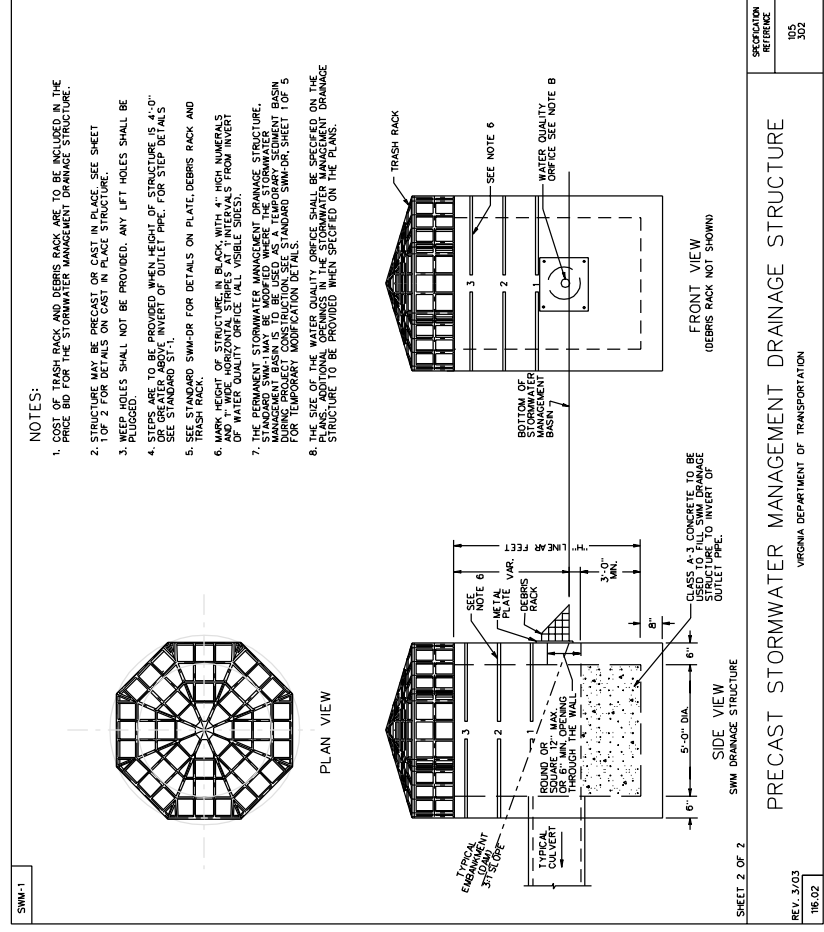
- NOTES:
1. COST OF TRASH RACK AND DEBRIS RACK ARE TO BE INCLUDED IN THE PRICE BID FOR THE STORMWATER MANAGEMENT DRAINAGE STRUCTURE.
 2. STRUCTURE MAY BE PRECAST OR CAST IN PLACE. SEE SHEET 2 OF 2 FOR DETAILS ON PRECAST STRUCTURE.
 3. WEEP HOLES SHALL NOT BE PROVIDED.
 4. STEPS ARE TO BE PROVIDED WHEN HEIGHT OF STRUCTURE IS 4'-0" OR GREATER ABOVE INVERT OF OUTLET PIPE. FOR STEP DETAILS SEE STANDARD SWM-DR.
 5. SEE STANDARD SWM-DR FOR DETAILS ON TRASH RACK AND DEBRIS RACK.
 6. MARK HEIGHT OF STRUCTURE IN BLACK WITH 4" HIGH NUMERALS AND 1" WIDE HORIZONTAL STRIPES AT INTERVALS FROM INVERT OF WATER QUALITY ORIFICE (ALL VISIBLE SIDES).
 7. THE PERMANENT STORMWATER MANAGEMENT DRAINAGE STRUCTURE, MANAGEMENT BASIN IS TO BE ADJACENT TO A TEMPORARY SEDIMENT MANAGEMENT BASIN TO BE USED AS A TEMPORARY SEDIMENT MANAGEMENT BASIN. SEE STANDARD SWM-DR FOR DETAILS ON SWM-DR. SHEET 1 OF 5, FOR TEMPORARY MODIFICATION DETAILS.
 8. THE SIZE OF THE WATER QUALITY ORIFICE SHALL BE SPECIFIED ON THE PLANS. ADDITIONAL OPENINGS IN THE STORMWATER MANAGEMENT DRAINAGE STRUCTURE TO BE PROVIDED WHEN SPECIFIED ON THE PLANS.

PIPE SIZE	APPROXIMATE QUANTITIES			
	CAST-IN-PLACE CLASS A-3 CONCRETE TO BE USED	MAXIMUM DEPTH (IN) TO BE 12'-8"	36"	42"
12"	15'	18'	24'	30'
15"	5'-3/4"	5'-6 1/2"	6'-1"	6'-7 1/2"
CUL.VOLS.	2.4663	2.773	2.8718	3.0718
CONCRETE	3.824	4.337	4.837	5.398

INCREMENT PER FOOT OF ADDITIONAL DEPTH "IN" = 0.461 CU. YDS.

SHEET 1 OF 2
SPECIFICATION REFERENCE
302
REV. 3/03
116.01

CAST IN PLACE STORMWATER MANAGEMENT DRAINAGE STRUCTURE
VIRGINIA DEPARTMENT OF TRANSPORTATION



- NOTES:
1. COST OF TRASH RACK AND DEBRIS RACK ARE TO BE INCLUDED IN THE PRICE BID FOR THE STORMWATER MANAGEMENT DRAINAGE STRUCTURE.
 2. STRUCTURE MAY BE PRECAST OR CAST IN PLACE. SEE SHEET 2 OF 2 FOR DETAILS ON CAST IN PLACE STRUCTURE.
 3. WEEP HOLES SHALL NOT BE PROVIDED. ANY LEFT HOLES SHALL BE PLUGGED.
 4. STEPS ARE TO BE PROVIDED WHEN HEIGHT OF STRUCTURE IS 4'-0" OR GREATER ABOVE INVERT OF OUTLET PIPE. FOR STEP DETAILS SEE STANDARD SWM-DR.
 5. SEE STANDARD SWM-DR FOR DETAILS ON TRASH RACK AND DEBRIS RACK.
 6. MARK HEIGHT OF STRUCTURE IN BLACK WITH 4" HIGH NUMERALS AND 1" WIDE HORIZONTAL STRIPES AT INTERVALS FROM INVERT OF WATER QUALITY ORIFICE (ALL VISIBLE SIDES).
 7. THE PERMANENT STORMWATER MANAGEMENT DRAINAGE STRUCTURE, MANAGEMENT BASIN IS TO BE ADJACENT TO A TEMPORARY SEDIMENT MANAGEMENT BASIN TO BE USED AS A TEMPORARY SEDIMENT MANAGEMENT BASIN. SEE STANDARD SWM-DR, SHEET 1 OF 5 FOR TEMPORARY MODIFICATION DETAILS.
 8. THE SIZE OF THE WATER QUALITY ORIFICE SHALL BE SPECIFIED ON THE PLANS. ADDITIONAL OPENINGS IN THE STORMWATER MANAGEMENT DRAINAGE STRUCTURE TO BE PROVIDED WHEN SPECIFIED ON THE PLANS.

SHEET 2 OF 2
SPECIFICATION REFERENCE
105
302
REV. 3/03
116.02

PRECAST STORMWATER MANAGEMENT DRAINAGE STRUCTURE
VIRGINIA DEPARTMENT OF TRANSPORTATION

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

NO.	DATE	REVISION		BY	CHKD.
		DESCRIPTION	PROJECT		
1					

SPECIAL DESIGN SECTION
DRAWING NO. 22-26