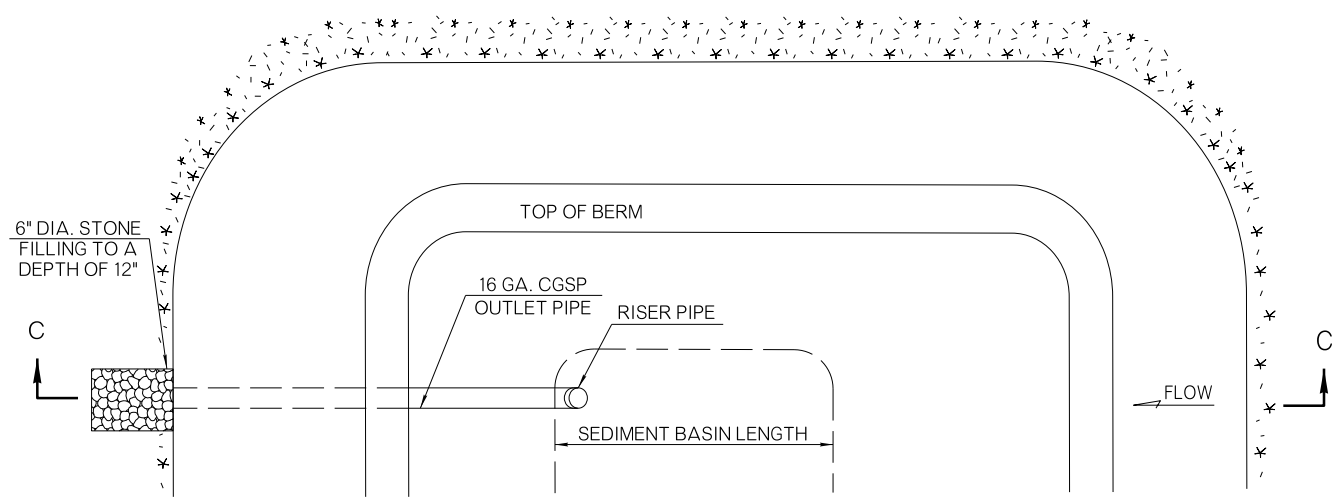
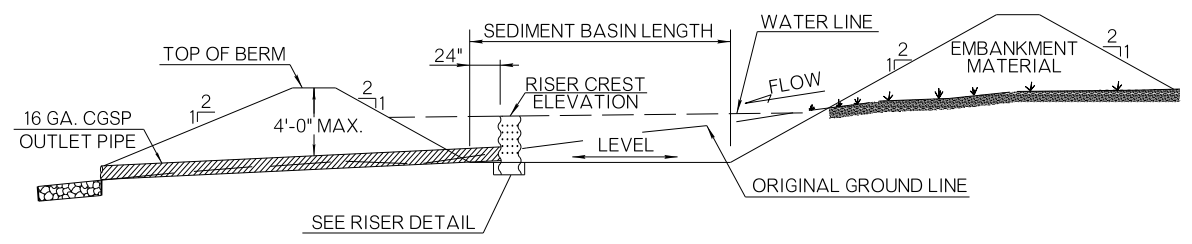


**RISER DETAIL**



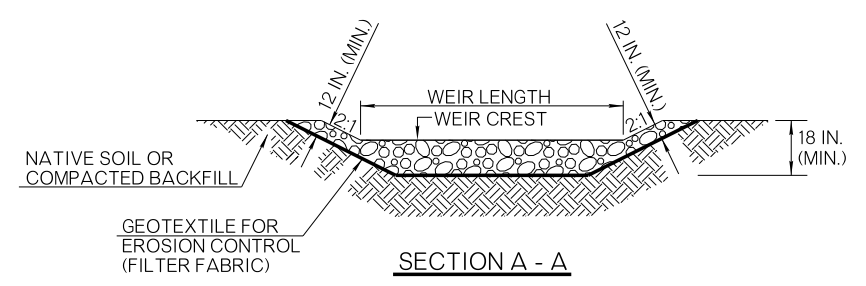
**1/2 PLAN VIEW  
USED FOR DRAINAGE AREAS 10 ACRES AND LARGER  
SEDIMENT BASIN (TYPE I)**



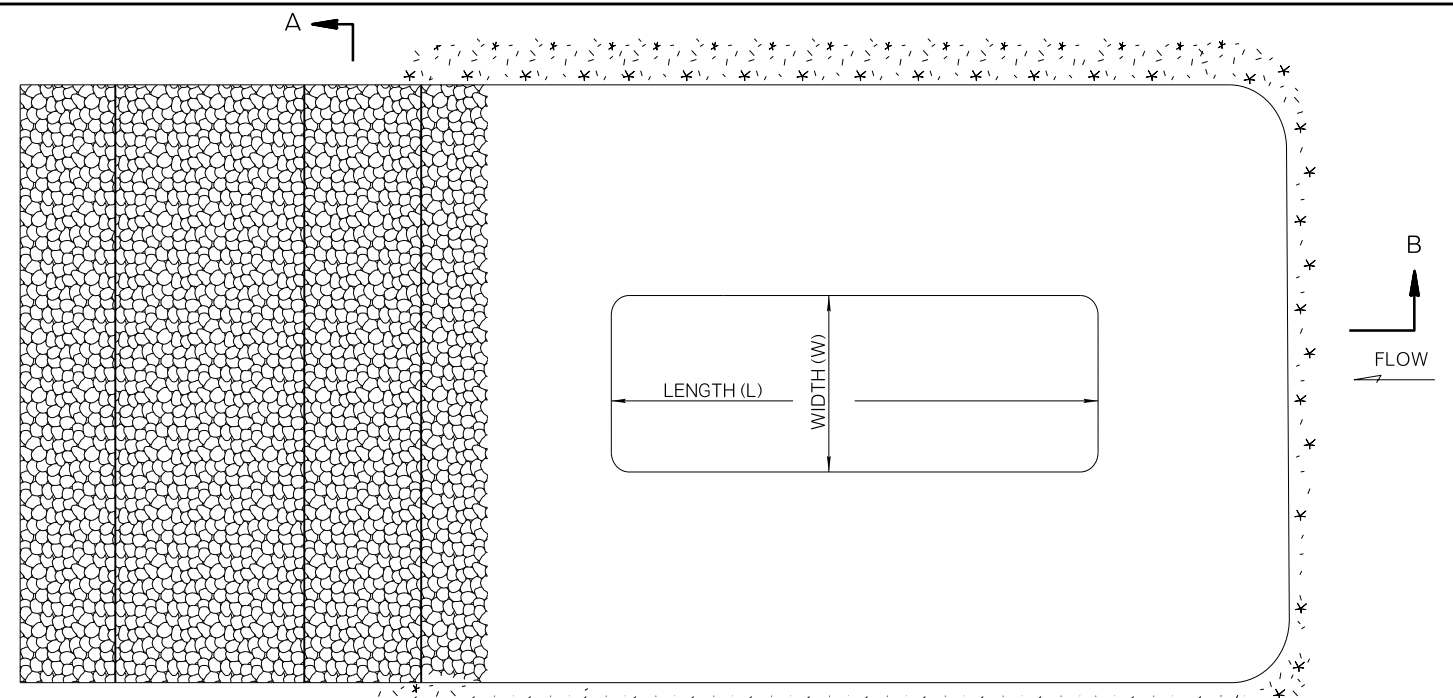
**SECTION C - C**

OUTLET AND RISER PIPE DIAMETER SIZES		
OUTLET DIAMETER (IN.)	RISER DIAMETER (IN.)	MAX. DRAIN AREA (AC.)
12	15	1
15	18	2
18	21	3
21	24	4
21	27	5

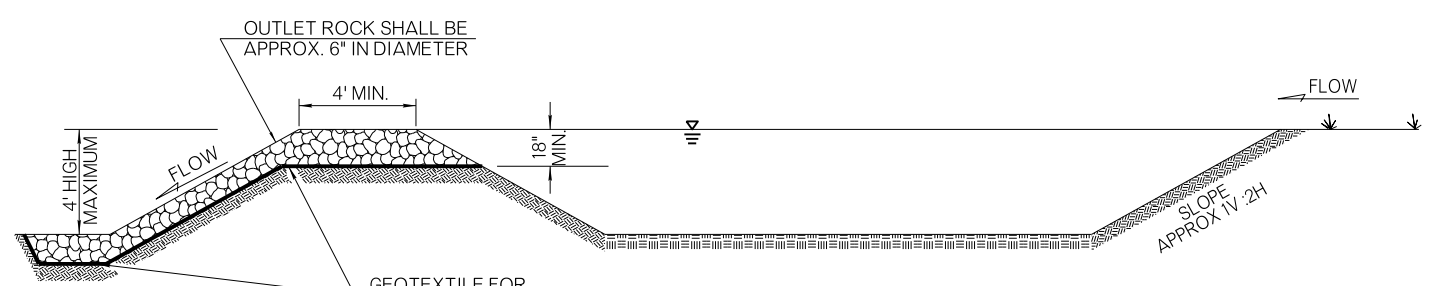
WEIR LENGTH TABLE	
DRAINAGE AREA (ACRES)	WEIR LENGTH (FEET)
1	4
2	6
3	8
4	10
5	12



**SECTION A - A**



**PLAN VIEW  
USED FOR DRAINAGE AREAS SMALLER THAN 10 ACRES  
SEDIMENT BASIN (TYPE II)**



**SECTION B - B**

**GENERAL NOTES**

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTIONS 221.02E AND 221.04E OF THE 2019 ODOT STANDARD SPECIFICATIONS.
- ALL INSTALLATION, MATERIALS AND MAINTENANCE FOR EACH OF TWO TYPES ARE TO BE PAID FOR AS "TEMPORARY SEDIMENT BASIN." THE TYPE OF BASIN SHALL BE NOTED IN THE PLANS.
- SEDIMENT BASINS SHOULD BE CONSTRUCTED PRIOR TO DISTURBANCE OF UPSLOPE AREAS, IF POSSIBLE, AND CONTINUE FUNCTIONING UNTIL THE CONTRIBUTING DRAINAGE AREA IS FULLY AND PERMANENTLY STABILIZED. INSTALL BASINS DOWNSTREAM OF DISTURBED DRAINAGE AREAS OF 5 ACRES OR LESS. BASINS SHALL NOT BE CONSTRUCTED IN WATERS OF THE STATE OR IN U.S.G.S. BLUE-LINE STREAMS.
- SEDIMENT BASINS SHOULD BE LARGE ENOUGH TO STORE 3600 C.F. OF WATER PER ACRE OF DRAINAGE AREA. LENGTH TO WIDTH RATIOS ARE USUALLY 1:2 TO 1:3. SEDIMENT BASINS SHOULD LAST AS LONG AS 18 MONTHS.
- FILL MATERIAL FOR BERMS SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, OR OTHER NON-SUITABLE MATERIAL. THE EARTH BERM SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- RISER PIPE SHALL BE PERFORATED WITH 1 INCH DIAMETER HOLES OR SLOTS SPACED 6 INCHES VERTICALLY AND 6 INCHES HORIZONTALLY. NO PERFORATIONS SHALL BE ALLOWED WITHIN 6 INCHES OF OUTLET PIPE. RISER PIPE SHALL BE WRAPPED IN GEOTEXTILE FOR EROSION CONTROL (FILTER FABRIC). WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED, AND STAPLED TO PREVENT BYPASS FLOW.
- RISER SHALL BE ANCHORED IN PLACE WITH A STEEL PLATE BASE TO PREVENT FLOTATION. A 1/4 INCH MINIMUM THICKNESS STEEL PLATE SHALL BE ATTACHED AND SEALED TO THE RISER PIPE BY A CONTINUOUS WELD TO FORM A WATERTIGHT CONNECTION. TWO FEET OF COMPACTED EARTH SHALL BE PLACED ON TOP OF THE PLATE.
- THE OUTLET PIPE AND ITS CONNECTIONS SHALL BE WATERTIGHT. FILL MATERIAL AROUND OUTLET PIPE SHALL BE CONSTRUCTED IN 4 INCH LAYERS. A MINIMUM OF 24 INCHES OF COMPACTED FILL SHALL BE PLACED OVER THE OUTLET PIPE BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
- MAINTENANCE OF THE SEDIMENT BASIN SHALL INCLUDE REPAIR AND REBUILDING OF THE BERMS, PIPES, AND OTHER FEATURES AS NEEDED TO ENSURE THAT THE TRAP PERFORMS AS ORIGINALLY INTENDED. TORN, PUNCTURED, OR CLOGGED GEOTEXTILE FOR EROSION CONTROL SHALL BE REPLACED AS NEEDED.

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
221(D)	TEMPORARY SEDIMENT BASIN	EA

APPROVED BY ROADWAY ENGINEER: *R. G. W.* DATE: 6/24/22  
 ROADWAY DESIGN DIVISION STANDARD  
**TEMPORARY SEDIMENT BASIN**  
 OKLAHOMA Transportation  
 2019 SPECIFICATIONS  
 TSB 0  
 R-10