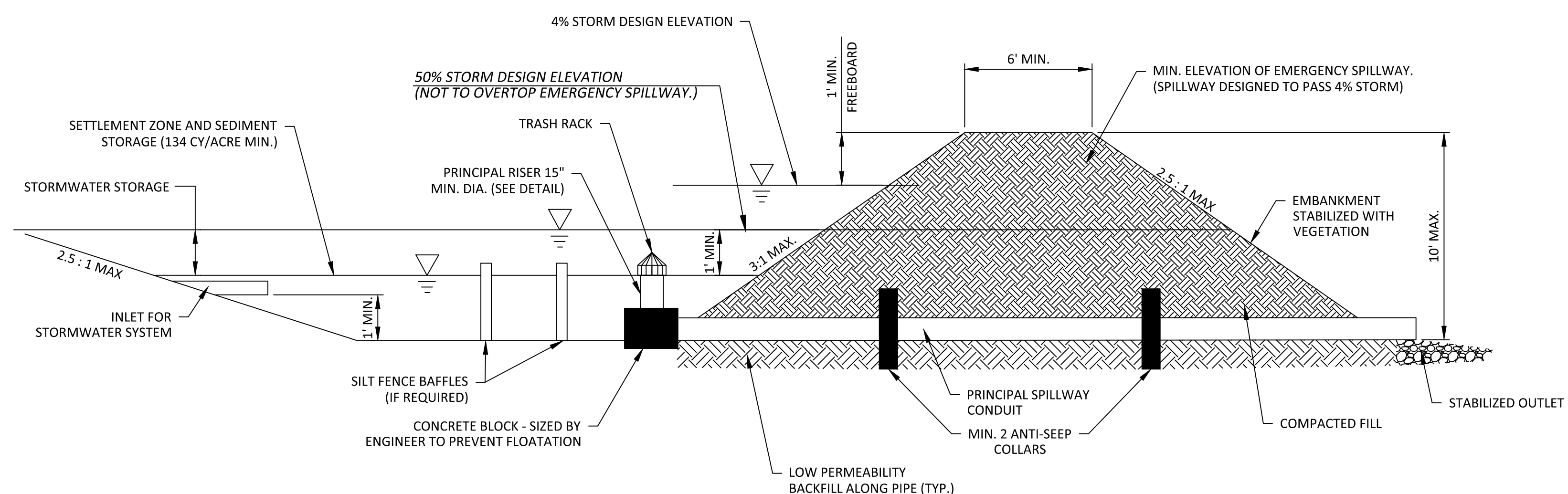


TEMPORARY SEDIMENT BASIN - PLAN VIEW
(NOT TO SCALE)



TEMPORARY SEDIMENT BASIN - CROSS SECTION
(NOT TO SCALE)

SEDIMENT BASIN DESIGN SUMMARY *					
DESIGN TEAM	BASIN #1	BASIN #2	BASIN #3	UNITS	NOTES
SITE DATA					
TRIBUTARY DRAINAGE AREA TO POND				ACRES	
50% (2 YR) DESIGN FLOW				CFS	
4% (25 YR) FLOW				CFS	
POND DATA					
MINIMUM SEDIMENT STORAGE AREA				CU. YD.	134 CU. YD./ACRE REQUIRED MIN.
PROVIDED SEDIMENT STORAGE AREA				CU. YD.	
BOTTOM ELEVATION				FT.	
SEDIMENT CLEAN-OUT ELEVATION				FT.	ELEVATION EQUAL TO 20% OF ORIGINAL DESIGN VOLUME
TOP OF RISER ELEVATION				FT.	TOP OF DRY STORAGE VOLUME
EMERGENCY SPILLWAY ELEVATION				FT.	AT OR ABOVE Q-2 ELEVATION. 1.0 FT. MIN. ABOVE PRINCIPAL SPILLWAY
TOP OF DAM ELEVATION				FT.	1.0 FT. ABOVE Q-25 ELEVATION
BASIN SHAPE DATA					
A = AREA OF NORMAL POOL				SQ. FT.	
L = LENGTH OF FLOW PATH				FT.	
WE = EFFECTIVE WIDTH = A/L				FT.	
LENGTH TO WIDTH RATIO = L/WE					IF LENGTH TO WIDTH RATIO IS LESS THAN 2, BAFFLES ARE REQUIRED
PRINCIPAL SPILLWAY DATA					
RISER PIPE DIA.				IN.	15" MIN. SIZE FOR 2 YEAR FLOW MIN.
BARREL PIPE DIA.				IN.	15" MIN. SIZE FOR 2 YEAR FLOW MIN.
CONCRETE BASE SIZE FOR RISER PIPE				CU. YD.	SIZE TO PREVENT FLOTATION. 1.25 SAFETY FACTOR REQUIRED
RISER PIPE PERFORATION COLUMNS				#	APPLICABLE IF PERFORATED RISER IS PROPOSED
RISER PIPE PERFORATION DIA.				IN.	APPLICABLE IF PERFORATED RISER IS PROPOSED
EMERGENCY SPILLWAY DATA					
DESIGN DEPTH IN SPILLWAY				FT.	
DESIGN VELOCITY IN SPILLWAY				FT./SEC.	
LINING MATERIAL				N/A	

*REQUIRED ON ALL SEDIMENT BASIN PLAN SHEETS

SEDIMENT BASIN NOTES:

DESIGN REQUIREMENTS:

1. THE PLAN AND PROFILES ARE SCHEMATIC IN NATURE. CONSTRUCTION PLANS MUST PROVIDE SPECIFIC SITE CONSTRUCTION ARRANGEMENTS. DETAILS GIVEN IN THESE DRAWINGS SHALL BE USED UNLESS ALTERNATE DETAILS ARE SHOWN IN PLAN AND APPROVED BY THE CITY.
2. IF THE LENGTH TO WIDTH RATIO IS LESS THAN 2, INTERIOR SEDIMENT FENCE BAFFLES SHALL BE PROVIDED TO REDUCE SHORT-CIRCUITING THE BASIN.
3. EMERGENCY SPILLWAYS TO BE LOCATED IN A NON-FILL LOCATION WHEN FEASIBLE AND SHALL BE LINED WITH A NON-ERODIBLE MATERIAL SUCH AS RIPRAP OR TURF REINFORCEMENT MAT.

MAINTENANCE/SAFETY REQUIREMENTS:

1. THE PERMIT HOLDER SHALL CLEAN OUT DEPOSITED SEDIMENT WHEN SEDIMENT STORAGE HAS BEEN REDUCED BY 20% OF THE ORIGINAL DESIGN STORAGE VOLUME. THE CLEANOUT LEVEL SHALL BE INDICATED ON THE RISER PIPE WITH PAINTED RED HORIZONTAL LINE.
2. SEDIMENT BASINS SHALL BE FENCED USING CONSTRUCTION FENCE OR OTHER MATERIAL FOR SAFETY REASONS AND INCLUDE WARNING SIGNS, READING: "DANGER - KEEP OUT."

NO.	DATE	DESCRIPTION	BY
<p>City of Manhattan Kansas</p> <p>PUBLIC WORKS 1101 POYNTZ AVE., MANHATTAN, KS 66502 (785) 587-2415</p>			
<p>MANHATTAN STANDARD DETAILS MSD 2850 TEMPORARY SEDIMENT BASIN</p>			
CITY ENGINEER: BRIAN JOHNSON, P.E.		DESIGN BY:	
CITY PROJ. #:			
DATE:	DRAWN BY:	PAGE	OF