

18 Attachment 16

Township of East Rockhill

TABLE A - CEMENT CONCRETE CRITERIA

CLASS OF CONCRETE	USE	CEMENT FACTOR (Bags/C.Y.)		MAXIMUM WATER CEMENT RATIO* (lbs/lbs)	SLUMP** RANGE (INCHES)	MINIMUM MIX DESIGN COMPRESSIVE STRENGTH (PSI)			PROPORTIONS COARSE AGGREGATE SOLID VOLUME (Cu Ft/Cu Yd)
		Min.	Max.			DAYS			
						3	7	28	
AAA	Bridge Deck	6.75'	8.00	0.43	1-3'	--	3600	4500	--
AA	Paving	6.25	8.00	0.47'	1-3'	--	3000	3750	9.93 - 13.10
AA		6.25	8.00	0.47'	1-3	--	3000	3750	9.93 - 13.10
A	Structures and	6.00	8.00	0.50'	1-3	--	2750	3300	10.18 - 13.43
C		4.20	7.00	0.66'	2-6	--	1500	2000	11.45 - 15.10
M.E.S.	Misc.	8.00	9.00	0.40'	1-3	3000	--	3750	9.10 - 12.00

- Notes 1 and 3 pertain to Structure and Miscellaneous Concrete only.
- (1) Proportions shown in the table are shown on the reverse side of Form TR 4221-B and are controlled by class of concrete, fineness modulus of fine aggregate (PTM No. 501) and the solids percent in coarse aggregate (PTM No. 617).
 - (2) Test Procedures: Slump - PTM No. 600; Strength - PTM No. 604, Compressive.
 - (3) For use in miscellaneous or structural concrete, when the Fineness Modulus (FM) is between 2.3 and 2.5, increase the minimum cement factor for the class of concrete, 0.5 bags/c.y. This requirement may be waived after adequate strength data is available and analyzed in accordance with the mix-design section in Bulletin 5.
 - (4) When mixing bridge deck concrete with a truck mounted mobile plant, use a minimum cement factor of 7.0 bags/c.y.
 - (5) Design Class AAA Cement Concrete for Bridge Decks with a slump of 3 inches at the time of placement, plus or minus 1 inch.
 - (6) For RPS concrete paving, see Section 306.3(w)1.
 - (7) For exception, see Section 704.1(c).
 - (8) When a portion of the cement is replaced by pozzolan, use a water to cement plus pozzolan ratio by weight.

NOTES:

1. All materials and construction shall conform to the above PennDOT Form 408 specifications (latest edition) unless otherwise noted; or as directed by the Township.
2. Hot weather concrete work shall conform to latest ACI Code Section 305-72 "Recommended Practice for Hot Weather Concreting"; cold weather concrete work shall conform to latest ACI Code Section 306-66 "Recommended Practice for Cold Weather Concreting".

EAST ROCKHILL TOWNSHIP SEWER STANDARDS

Not To Scale	PENNDOT FORM 408 CONCRETE REQUIREMENTS	S-15
1/92		DWG No.