

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	00-00116-00-BR	DUPAGE	106	80
STA. 4+38.47		TO STA. 14+62.4		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT 83827				

FOUNDATION AGGREGATE
ILLINOIS DEPARTMENT OF TRANSPORTATION
(CA8 OR CA9)

1. SCOPE
- 1.1 THIS SPECIFICATION COVERS FOUNDATION AGGREGATE CONSISTING OF CRUSHED STONE OR GRAVEL FOR USE IN STABILIZING OR SUSTAINING POLES AND STRUCTURES.
2. GENERAL
- 2.1 AGGREGATE SUPPLIED UNDER THIS SPECIFICATION SHALL COMPLY WITH ILLINOIS DEPARTMENT OF TRANSPORTATION SPECIFICATION, FOR GRADE CA8 (OR GRADE CA9 COARSE AGGREGATE) LATEST REVISION.
3. PHYSICAL PROPERTIES
- 3.1 GRADATION - THE AGGREGATE SHALL BE MIXED UNIFORMLY, SHALL BE WELL GRADED FROM THE MAXIMUM TO MINIMUM SIZE BETWEEN THE LIMITS SPECIFIED, AND WHEN TESTED WITH LABORATORY SIEVES (SQUARE OPENINGS), SHALL CONFORM TO THE GRADATION GIVEN IN THE FOLLOWING TABLE, WHICH SHOWS THE TOTAL PERCENTAGE PASSING EACH SIEVE.

	PERCENTAGE BY WEIGHT PASSING SIEVE				
	1"	1/2"	#4	#16	#200
CA8	97±3	55±10	10±5	3±3	-
CA9	97±3	60±15	30±15	10±10	6±6

4. SAMPLING
- 4.1 SEPARATE SAMPLES SHALL BE TAKEN FROM DIFFERENT PARTS OF THE STOCK PILE. THIS SHOULD BE DONE TO OBTAIN A COMPOSITE SAMPLE REPRESENTING THE AVERAGE OF THE PILE. AFTER THOROUGHLY MIXING THE COMPOSITE SAMPLE, IT SHALL BE Poured THROUGH THE SAMPLE CUTTER TO REDUCE ITS SIZE TO THAT REQUIRED FOR THE TESTS. THE BALANCE SHALL BE DISCARDED.
5. TESTING
- 5.1 THE PROPERTIES SPECIFIED IN THIS SPECIFICATION SHALL BE DETERMINED BY TESTS LISTED IN ASTM SPECIFICATION C33 OF LATEST ISSUE.
6. PACKAGING
- 6.1 THIS MATERIAL WILL BE PURCHASED EITHER IN BULK OR WEATERPROOF BAGS, "50 LBS. BAGS".
7. SUPPLEMENTARY SPECIFICATIONS
- 7.1 ASTM SPECIFICATION C33-90 OR LATEST REVISION.
8. ACCEPTANCE
- 8.1 ALL PROVISIONS OF THE PURCHASE ORDER SHALL APPLY.
9. CONSTRUCTION INFORMATION
- 9.1 THE CONTRACTOR SHALL FURNISH ALL ITEMS ON THIS SPECIFICATION.

INSTRUCTION FOR INSTALLING
AND FURNISHING RIP-RAP

THE CONTRACTOR SHALL FURNISH, INSTALL, REMOVE AND REPLACE THE RIP-RAP OF THE TYPE AND OF THE LOCATION SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. PROPOSED RIP-RAP SHALL BE GRADATED AS SET FORTH IN THE SPECIFICATIONS. RIP-RAP SHALL BE IN ACCORDANCE WITH SECTION 281 OF THE ILLINOIS STANDARD SPECIFICATIONS OF MATERIALS.

THE RIP-RAP INSTALLATION, REMOVE AND REPLACE SHALL BE MEASURED FOR PAYMENT IN PLACE, AND THE AREA COMPUTED IN SQUARE YARDS.

THE WORK FOR RIP-RAP IN PLACE OF THE TYPE SHOWN ON THE PLANS AND SPECIFIED HEREIN OR AS SHOWN ABOVE SHALL INCLUDE 2" MINIMUM THICKNESS, FURNISHING, INSTALLATION AND APPROXIMATELY 10% OVERLAP. A COMPLETE FINISH PLUS FINISHING AND GRADING.

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	FOUNDATION AGGREGATE	DATE: 06-01-05
ELECTRIC STANDARDS	ILLINOIS DEPARTMENT OF TRANSPORTATION (MATERIAL SPECIFICATION)	Page 1 of 2 56270-900

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	FOUNDATION AGGREGATE	DATE: 06-01-05
ELECTRIC STANDARDS	ILLINOIS DEPARTMENT OF TRANSPORTATION (MATERIAL SPECIFICATION)	Page 2 of 2 56270-900

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	INSTRUCTION FOR INSTALLING AND FURNISHING RIP-RAP	DATE: 06-01-05
ELECTRIC STANDARDS		Page 1 of 1 56270-910

COARSE AGGREGATE

1. SCOPE
- 1.1 THIS SPECIFICATION COVERS COARSE AGGREGATE CONSISTING OF CRUSHED STONE OR GRAVEL FOR USE IN CONCRETE.
2. GENERAL
- 2.1 COARSE AGGREGATE SUPPLIED UNDER THIS SPECIFICATION SHALL COMPLY WITH ASTM SPECIFICATION C33-90 OF LATEST REVISION.
3. PHYSICAL PROPERTIES
- 3.1 GRADING - THE COARSE AGGREGATE SHALL BE WELL GRADED BETWEEN THE FOLLOWING LIMITS:

SIZE NO.	NOMINAL SIZE	PERCENTAGE BY WEIGHT PASSING SIEVE						
		1"	3/4"	1/2"	3/8"	#4	#8	#16
8	3/8" TO #8	-	-	100	85 TO 100	10 TO 30	0 TO 10	0 TO 5
7	1/2" TO #4	-	100	90 TO 100	40 TO 70	0 TO 15	0 TO 5	-
67	3/4" TO #4	100	90 TO 100	-	20 TO 55	0 TO 10	0 TO 5	-

- 3.2 DELETERIOUS SUBSTANCES (CLASS 3S) - THE AMOUNT OF DELETERIOUS SUBSTANCES IN COARSE AGGREGATE SHALL NOT EXCEED THE FOLLOWING ITEM.

ITEM	MAXIMUM PERMISSIBLE PERCENTAGE BY WEIGHT OF TOTAL SAMPLE
CLAY LUMPS AND FRIABLE PARTICLES	5.0
SUM OF CLAY LUMPS, FRIABLE PARTICLES AND CHERT	7.0
COAL AND IGNITE	0.5
MATERIAL FINER THAN #200 SIEVE	1.0

- 3.3 OTHER PROPERTIES - COARSE AGGREGATE SUPPLIED UNDER THIS SPECIFICATION SHALL BE CAPABLE OF PASSING THE REQUIREMENTS FOR SOUNDNESS, RESISTANCE TO ABRASION, FREEZING AND THAWING AND LACK OF EXCESSIVE REACTIVE MATERIALS AS LISTED IN ASTM SPECIFICATION C33. THESE TESTS WILL BE ORDERED ON COARSE AGGREGATE OF QUESTIONABLE QUALITY ONLY WHEN THE SIZE OF THE SOURCE OF THE AGGREGATE AND THE POSSIBILITY OF IDENTIFYING FUTURE DELIVERIES FROM THIS SOURCE JUSTIFY SUCH TESTS.
- 3.4 WEIGHT - THE QUANTITY IS IN TONS. UNIT OF ISSUE IS POUNDS. THE WEIGHT SHOULD BE DETERMINED AS LOADED IN THE HAULING UNIT, INCLUDING ANY NATURAL MOISTURE PRESENT. DO NOT ADD WATER.

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	COARSE AGGREGATE	DATE: 06-01-05
ELECTRIC STANDARDS	ILLINOIS DEPARTMENT OF TRANSPORTATION (MATERIAL SPECIFICATION)	Page 1 of 2 56270-920

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	COARSE AGGREGATE	DATE: 06-01-05
ELECTRIC STANDARDS	ILLINOIS DEPARTMENT OF TRANSPORTATION (MATERIAL SPECIFICATION)	Page 2 of 2 56270-920

INSTRUCTION FOR INSTALLING, REMOVAL AND REPLACEMENT
OF BITUMINOUS PAVEMENT (TYPE-II)

THIS SPECIFICATION COVERS THE REMOVAL, REPAIR, AND REPLACEMENT OF BITUMINOUS PAVEMENT (TYPE-II) ON EXISTING PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE EXISTING PAVEMENT AND THE INSTALLATION OF THE NEW PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE EXISTING PAVEMENT AND THE INSTALLATION OF THE NEW PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE EXISTING PAVEMENT AND THE INSTALLATION OF THE NEW PAVEMENT.

4. SAMPLING

4.1 SEPARATE SAMPLES SHALL BE TAKEN FROM DIFFERENT PARTS OF THE STOCK PILE. THIS SHOULD BE DONE TO OBTAIN A COMPOSITE SAMPLE REPRESENTING THE AVERAGE OF THE PILE. AFTER THOROUGHLY MIXING THE COMPOSITE SAMPLE, IT SHALL BE Poured INTO A PILE AND QUARTERED IN FOUR EQUAL PARTS, OPPOSITE QUARTERS SHALL BE DISCARDED, AND THE QUARTERING REPEATED UNTIL THE DESIRED SAMPLE REMAINS.

5. TESTING

5.1 THE PROPERTIES SPECIFIED IN THIS SPECIFICATION SHALL BE DETERMINED BY TESTS LISTED IN ASTM SPECIFICATION C33 OF LATEST REVISION.

5.2 ALL TEST RESULTS AND SAMPLES SHALL BE DELIVERED TO THE DEPARTMENT OF PUBLIC UTILITIES (ELECTRIC) 1392 AURORA AV, NAPERVILLE, IL. 60566.

6. SUPPLEMENTARY SPECIFICATIONS

6.1 ASTM SPECIFICATION C33-90 OR LATEST REVISION.

7. ESTIMATED WEIGHT

7.1 WEIGHT PER CUBIC FOOT.

COARSE AGGREGATE - 90 LBS. - 95 LBS. LOOSE
130 LBS. DRY COMPACTED
140 LBS. WET COMPACTED
OPTIMUM MOISTURE

NOTE: THE ABOVE WEIGHTS ARE FOR ESTIMATING PURPOSES ONLY. FOR EXACT WEIGHTS USE LABORATORY TEST RESULTS.

8. ACCEPTANCE

8.1 ALL PROVISIONS OF THE PURCHASE ORDER SHALL APPLY.

9. CONSTRUCTION INFORMATION

9.1 THE CONTRACTOR SHALL FURNISH ALL ITEMS ON THIS SPECIFICATION.

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	INSTRUCTION FOR INSTALLING, REMOVAL AND REPLACEMENT OF BITUMINOUS PAVEMENT (TYPE II)	DATE: 06-01-05
ELECTRIC STANDARDS		Page 1 of 1 56270-930

CITY OF NAPERVILLE/DEPARTMENT OF PUBLIC UTILITIES - ELECTRIC

CALL J.U.L.I.E. 48 HRS. PRIOR TO CONSTRUCTION

PROJECT TITLE	JEFFERSON ST. BRIDGE DUCTBANK INSTALLATION	MAP NO.:	-	CAD FILE:	0054679001D25.DWG
PROJECT DESCRIPTION	DETAILS	DRAWN BY:	JK, PM	PROJECT NO.:	EU13-04-06
DATE	4-01-09	WORK REQUEST NO.	54679	CHKD:	
ISSUED		APPR:		SBC:	
ENGINEER	PSM	SCALE:	NTS	COMPLETED BY:	
REVISION	1 2 3				