FOUNDATION AGGREGATE ILLINOIS DEPARTMENT OF TRANSPORTATION. (CAS OR CA9)

1. SCOPE

2.1 AGGREGATE SUPPLIED UNDER THE SPECIFICATION SHALL COMPLY WITH ILLINOIS DEPARTMENT OF TRANSPORTATION SPECIFICATION, FOR GRADE GAS (OR GRADE GAS COARSE AGGREGATE) LACEST REVISION.

3.1 <u>GRADATON</u> - THE AGGREGATE SHALL BE MIXED UNIFORMLY, SHALL BE WELL GRADED FROM THE MAXIMUM TO MINIMUM SIZE BETWEEN THE LIMITS SPECIFIED, AND WHEN TESTED WITH LEBORATORY SIEVES (SQUARE OPENINOS), SHALL COMPONENT OF THE GRADATION GIVEN IN THE FOLLOWING TABLE, WHICH SHOWS THE TOTAL PERCENTAGE PASSING EACH SIEVE.

	PERCEN	TAGE BY	WEIGHT	PASSIN	G SIEVI
	1"	1/2"	#4	#16	#200
CA8	97±3	55±10	10±5	3±3	-
CA9	97±3	60±15	30±15	10±13	6±6

- 3.2 <u>DELETERIOUS SUBSTANCES</u> THE AGGREGATE SHALL CONSIST OF TOUGH, DURABLE PARTICLES, REASONABLY FREE FROM AN EXCESS OF SOFT AND UNSOUND MATERIAL AND OTHER OBJECTONABLE MATTER.
- OTHER PROPERHIES AGGREGATE SUPPLIED UNDER THIS SPECIFICATION SHALL BE CAPABLE OF PASSING THE REQUIREMENTS FOR SOUNDMESS, RESISTANCE TO ABRASION FREEZING AND THAKING AND LACK OF EXCESSIVE REACHTYE MATERIALS AS LISTED WASTER STITCHTOWN CONTROL OF STATEMENT OF THE AGGREGATE OF THE AGGREGATE AND THE POSSIBLITY OF IDENTIFYING FUTURE DELIVERIES FROM THIS SQUARE UNSTITY SECURITY OF IDENTIFYING FUTURE DELIVERIES FROM THIS SQUARE.

4. SAMPLING

4.1 SEPARATE SAMPLES SHALL BE TAKEN FROM DIFFERENT PARTS OF THE STOCK PILE. HIS SHOULD BE DONE TO OBTAIN A COMPOSITE SAMPLE REPRESENTING THE AVERAGE OF THE PILE. AFTER THOROUGH, MINING THE COMPOSITE SAMPLE, IT SHALL BE POURED THROUGH THE SAMPLE CUTTER TO REDUCE ITS SIZE TO THAT REQUIRED FOR THE TESTS. THE BEALANCE SHALL BE DISCASOED.

5. TESTING

- 5.1 THE PROPERTIES SPECIFIED IN THIS SPECIFICATION SHALL BE DETERMINED BY TESTS LISTED IN ASTM SPECIFICATION 0.3.3 OF LATEST ISSUE. PACKAGING
- 6.1 THIS MATERIAL WILL BE PURCHASED EITHER IN BULK OR WEATERPROOF BAGS. "50 LBS. BACS".
- 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.

NAPERVILLE PUBLIC	INSTRUCTION FOR	DATE: 050105
UTHATIES DEPARTMENT	INSTALLING AND	Page 1 of 1
ELECTRIC STANDARDS	FURNISHING RIP-RAP	56270-910

INSTRUCTION FOR INSTALLING, REMOVAL AND REPLACEMENT OF BITUMINOUS PAVEMENT (TYPE-4)

INSTRUCTION FOR INSTALLING AND FURNISHING RIP-RAP

THE CONTRACTOR SHALL FURNISH, INSTALL, REMOVE AND REPLACE RIP RAP OF THE TYPE AND SIZE AT THE LOCATION SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER PROPOSED RIP RAP SHALL BE GRADATION \$5. 12" WINNIUM THICKNESS RIP RAP SHALL BE IN ACCORDANCE WITH SECTION 281 OF THE IDOT STANDARD SPECIFICATIONS OF LATES! ISSUE.

RIP RAP INSTALLATION REMOVAL AND REPLACEMENT WILL 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 ALL MATERIAL, LABOR, EQUIPMENT RESTORATION AND APPURTENANCES REQUIRED FOR A COMPLETE ITEM PLUS LEVELING AND GRADING.

FOUNDATION AGGREGATE DATE 05 -01-05 HILINOIS DEPARTMENT OF TRANSPORTATION Fage 1 of 2 56270-900 NAPERVILLE PUBLIC UTILITIES DEPARTMENT ELECTRIC STANDARDS

COARSE AGGREGATE

1. SCOPE

1.1 THIS SPECIFICATION COVERS COARSE AGGREGATE CONSISTING OF CRUSHED STONE OR CRAVEL FOR USE IN CONCRETE.

2. GENERAL

2.1 COARSE AGGREGATE SUPPLIED UNDER THIS SPECIFICATION SHALL COMPLY WITH ASTM SPECIFICATION 035-90 OF LAYEST REVISION.

3. PHYSICAL PROPERTIES

3.1 CRADING - THE COARSE ACCREGATE SHALL BE WELL GRADED BETWEEN THE COLLOWING UNICS:

SIZE NO.	D. 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 10 100	40 TO 70	0 TO 15	0 TO 5	
87	3/4° TO #4	100	90 TO 100		20 TO 55	0 TO 10	0 TO 5	

3.2 DELETERIGUS SUBSTANCES (CLASS 3S) — THE AMOUNT OF DELETERIOUS SUBSTANCES IN COARSE AGGREGATE SHALL NOT EXCEST THE FOLLOWING (TEM.

ITEN	MAXIMUM PERMISSIBLE PERCENTAGE BY WEIGHT OF TOTAL SAMPLE
CLAY LUMPS AND FRIABLE FARTICLES	5.0
SUM OF CLAY LUMPS, FRIABLE PARTICLES AND CHERT	7.0
COA: AND IGNITE	0.5
MATERIAL FINES THAN #200 SHEVE	1.0

- 3.3 OTHER PROPERTIES COARSE ACCREGATE SUPPLIED UNDER THIS SPECIFICATION SHALL BE CAPABLE OF PASSING THE REQUIREMENTS FOR SOUNDIESS, RESISTANCE TO ARRASION, FREZENICA AND THAWING AND LACK OF EXCESSIVE REACTIVE MATERIALS AS LISTED IN ASTM SPECIFICATION 0.33. THESE TESTS WILL BE ORDERED ON COARSE ACCREGATE OF QUISTIONALS QUALITY ONLY WHEN THE SIZE OF THE SOURCE OF THE AGGREGATE AND THE POSSIBILITY OF IDENTIFYING FUTURE DELIVERIES FROM THIS SOURCE JUSTICY SUCH TESTS.

NAPERVILLE PUBLIC COARSE AGGREGATE DATE: 05-01-05 CITATURIES DEPARTMENT Page 1 of 2 ELECTRIC STANDARDS (MATERIAL SPECIFICATION) 55270-920

SAMPLING

UTILITIES DEPARTMENT
ELECTRIC STANDARDS

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. AFER THOROUGHLY MAING THE COMPOSITE SAMPLE, IT SHALL BE POURED INTO A PILE AND QUARTERED IN FOUR EQUAL PARTS. OPPOSITE QUARTER'S SHALL BE DISCARDED, AND THE COMPETENCE OF REPORTED UNIT THE DESIRED SAMPLE REMAINS.

FOUNDATION AGGREGATE

(MATERIAL SPECIFICATION)

FOUNDATION AGGREGATE
ILLINOIS DEPARTMENT OF TRANSPORTATION Page 2 of 2
56270-900

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.

6.1 ASTM SPECIFICATION 033-90 OR LATEST REVISION.

Z. ESTIMATED_WEIGHT

7.1 WEIGHT PER CUBIC FGOT.

COARSE AGGREGATE = 90 LBS. = 95 LBS. LOOSE 130 LBS. DRY COMPACTED 140 LBS. WET COMPACTED OPTIMUM MOSTURE

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

COARSE AGGREGATE

(MATERIAL SPECIFICATION)

DATE: 05-01-05 Page 2 of 2 56270-920

8. ACCEPTANCE

CTLITIES DEPARTMENT

ELECTRIC STANDARDS

8.1 ALL PROVISIONS OF THE PURCHASE ORDER SHALL APPLY.

9. CONSTRUCTION INFORMATION.

9.1 THE CONTRACTOR SHALL FURNISH ALL ITEMS ON THIS SPECIFICATION.

WHEN, IN THE DEFINION OF THE ENGINEER, BITUMINOUS SURFACE COURSE MIXTURE DELIVERED TO THE WORK SITE FOR PATCHING HAS COOLED TO THE POINT OF BEING UNSATISFACTORY, IT SHALL NOT BE USED IN THE WORK.

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR BITUMINOUS PAYEMENT REPLACEMENT, TYPE II, WHICH SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT AND APPURTENANT NECESSARY FOR A COMPLETE JOB.

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

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RTE.	2552		CTION :	COUNTY	SHEETS	NO.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT 63024

RITURINOUS MATERIAL USED TO COMPLETE THIS ITEM OF WORK SHALL CONFORM TO SECTION 405 OF THE STANDARD SPECIFICATIONS. MORE SPECIFICATION THE BITURINOUS COUNCRET SHALL BE CLASS I SURFACE COURSE, TYPE 2, MIXTURE D. AFTER SAW CUTTING, ALL LOOSE AND UNSOUND MATERIAL SHALL BE REMOVED FROM THE REPLACEMENT AREA BY MEANS OF PHEDUMATIC, MECHANICAL, OR OTHER TOOLS AS WILL BE ACCEPTABLE TO THE ENGINEER, MATERIAS REMOVED FORM THE REPAR AREA SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE JOBSTE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THIS ITEM SHALL CONSIST OF SAW CUTTING THE EXISTING PAYEMENT, THE REMOVAL C EXISTING BITUMINOUS PAYEMENT [12" TO 18" MINIMUM) ABOVE THE BRIGHING SUBFACE THE INSTALLATION OF BITUMINOUS SUBFACE MY THAT MATCHES THE EXISTING TYPICA SECTION OF THE ROADWAY IN CONFORMANCE WITH PROVISIONS SET FORTH IN THISE BODCLIMENTS, AT LICETATIONS WHERE THE PROPOSES IN IMPROVEMENT CROSSES OR

PARALLELS BITUMINOUS ROADWAYS, AS DETAILED IN THESE PLANS

AREAS OF UNSOUND BASE OR SUB-BASE SHALL BE IDENTIFIED, MEASURED, AND THE ENGINEER SHALL BE NOTIFIED. A TEMPORARY PATCH MAY BE REQUIRED.

THE OPENINGS SHALL BE PROTECTED WITH TYPE I OR TYPE II BARRICADES WITH LIGHTING FOR THE PERIOD BECINNING IN HEDBYTELY AFTER REMOVAL IS COMPLETED UNTIL THE OPENINGS HAVE BEEN FILLD WITH BITHUNDOUS METURE AND ALL GERRS IS CLEARED AWAY, OR WITH SUFFICIENT STEEL PLATING TO ALLOW TRAFFIC TO PASS. PROTECTED OF THE SECONATION SHALL BE IN ACCORDANCE WITH THESE SPECIAL PROVISIONS NOTED HEREIN AS TRAFFIC CONTROL.

PRIOR TO PLACING BITUMINOUS CONCRETE, ALL SURFACES OF THE REPAIR AREA SHALL BE BLOWN FREE OF DUST AND LODGE ACCREATE PARTICLES WITH COUPRISSED AIR. A TACK COAT CONFORMING TO SECTION 406 DOF THE STANDARD SPECIFICATIONS SHALL BE APPLIED TO ALL SURFACES OF THE REPLACINGNIT AREA AT A RATE OF DID CAL OF RESIDUAL BITUMEN PER SOURCE YARD. THE OPENING SHALL THEN BE FILLED IN LIFTS OF SURFACE COURSE MXTURE AND COMPACTED BY MEANS OF A SELF-PROPELLED STEEL WHEEL ROLLER TO NOT LESS THAN 35 PERCENT OF THE MODIFIED PROCTOR DENSITY.

THE FINISHED SURFACE OF THE FINAL REPLACEMENT SHALL BE FLUSH, SMOOTH AND LEVEL TO THE SURROUNDING PAVEMENT SURFACE.

THE METHOD OF MEASUREMENT FOR THIS BEM OF WORK SHALL BE IN SQUARE YARDS, WHICH HILL BE CALCHIATED BY THE FIELD MEASUREMENT MEASUREMENT AMBASUREMENT FOR SAM CUITTING, REMOVAL AND DISPOSAL OF EXCLAVED MATERIALS, REMOVAL AND INSTALLATION OF BITUMINOUS WATERIALS TO MATCH ASSTRICE PASSED FOR THE STATEMENT OF STUMINOUS SURFACE COURSE, TEMPORARY ASPHALT PATCHES, TRAFFIC CONTROL AND ANY OTHER LABOR, COUPPMENT, TOOLS OF MATERIALS NECESSARY TO COMPLETE THIS BEM TO THE SATISFACTION OF THE RUDHERE.

WF# INFORMA	TION
WF# 59481 WASHINGTON ST, 75TH TO OLYMPUS DR. EAST SIDE	JOB 1 EU-7
WF# 59482 75TH WASHINGTON ST. TO OLYMPUS DR. NORTH SIDE	JOB 2 EU-7
WF# 59484 75TH WASHINGTON ST. TO CLYDE DR. SOUTH SIDE	JOB 3 EU~7
WF# 59485 WASHINGTON ST. 75TH TO BAILEY RD. EAST SIDE	JOB 4 EU-7

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