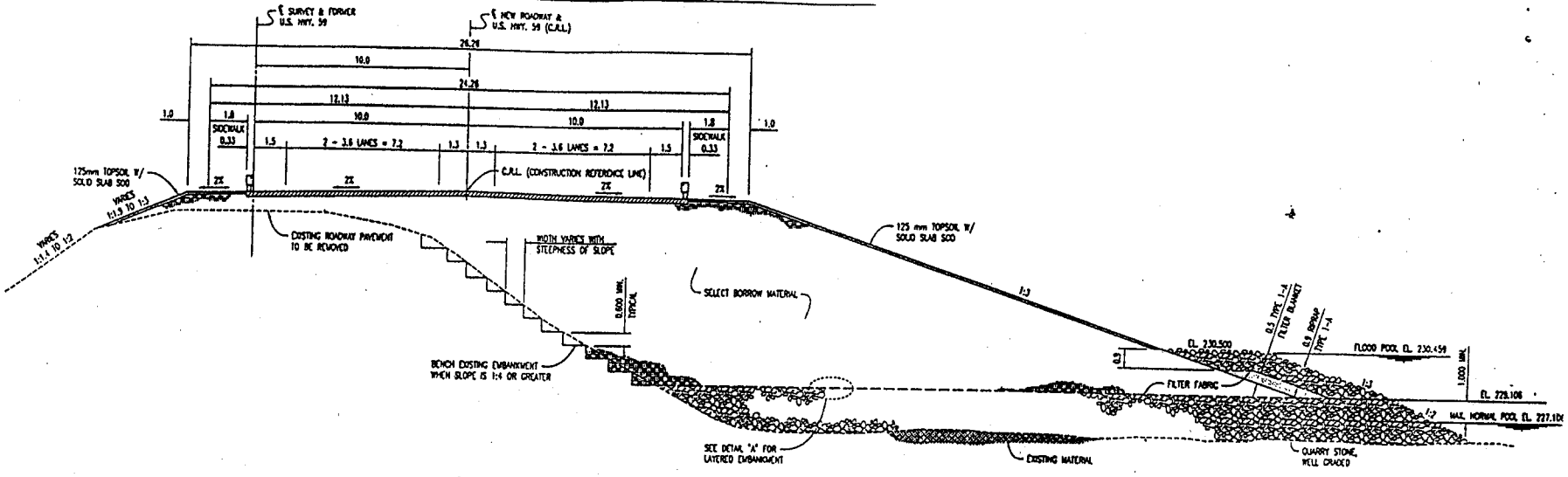
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED ON PLANS.



TYPICAL SECTION – EMBANKMENT

1 0 1 2

SCALE: 1 : 100
1 mm = 100 mm

QUARRY STONE EMBANKMENT SPECIFICATION

Quarry Stone Embankment is to be constructed to EL. 227.106 by end dumping from trucks, working out to Bridge Abutments from existing ground, and newly placed embankment. Stone fill to be placed around abutment piles shall be placed with a clam shell, dragline, or similar equipment, if required. The cone fill shall be placed such that it produces a reasonably well-graded mass of rock with a minimum amount of large voids. Quarry stone material shall be placed at EL. 228.106.

Quality of the quarry stone shall conform to Section 713.02 of ODOT Standard Specification for Highway Construction – Metric, 1996.

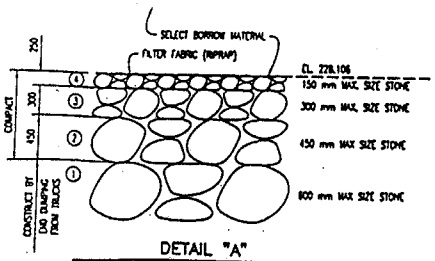
Layer 1, the 600mm maximum size stone constructed by end dumping, shall have the gradation set forth in the Gradation Schedule.

The top 1.0 meter of Quarry Stone Embankment shall be constructed in three layers as indicated on Detail "A", of maximum size and gradation per the Gradation Schedule.

During construction of the embankment, the contractor shall route equipment, both when loaded and when empty, over the layers as they are placed and shall distribute the travel evenly over the entire width of the embankment. Each layer shall be leveled and smoothed with suitable leveling equipment and by distribution of spalls and finer fragments of rock. Adequate amounts of water shall be provided prior to compaction.

Density requirements will not apply to portions of the embankment constructed of materials which cannot be tested in accordance with specified methods.

The stone embankment shall be compacted by use of vibrating rollers, having a maximum static weight of 20,000 pounds when operating at 1400 vpm and an applied force not less than 9,000 pounds per foot of compaction drum length. Three complete and overlapping passes shall be made by the vibrating roller over the surface of each layer of stone embankment.



DETAIL "A"
QUARRY STONE EMBANKMENT
N.T.S.

QUARRY STONE EMBANKMENT GRADATION SCHEDULE

U.S. STANDARD SIEVE OPENING	PERCENT PASSING ①	②	③	④
600 mm	100			
450 mm	-	100		
300 mm	85-95	90-97	100	
150 mm	40-55	60-75	82-92	100
75 mm	25-35	30-45	45-55	80-95
25 mm	5-15	13-25	18-28	35-45
10 mm	0-10	7-15	10-20	15-25

DESIGN	·	·
DRAWN	S.J.A.	·
CHECKED	·	·
APPROVED	·	·
SQUAD		·

TYPICAL SECTIONS – 5
EMBANKMENT DETAILS

JOB PIECE NO. 10442 (04) SHEET NO. ___

OKR2010731
OKLAHOMA DEPARTMENT OF TRANSPORTATION
HONEY CREEK ARM OF GRAND LAKE
U.S. HIGHWAY 59 BRIDGE REPLACEMENT
ENCLOSURE 2 OF 5