

GENERAL NOTES

FHWA REGION	STATE	PROJECT
5	OHIO	

3
19

LAKE COUNTY
LAK-2-5.30

CALC: PCB 11-80
CHK: ROB 11-80

CHECKED

614 - TEMPORARY PAVEMENT MARKINGS - ~~INTERMEDIATE~~ LANE CLOSURE

A. GENERAL

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND, WHEN NECESSARY, REMOVE TEMPORARY RETROREFLECTIVE PAVEMENT MARKINGS ON RECONSTRUCTED, RESURFACED OR TEMPORARY ROADS WITHIN THE WORK LIMITS, IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS.

THE TEMPORARY MARKINGS SHALL BE COMPLETE ON ALL PAVEMENT COURSES EXPOSED TO TRAFFIC AT THE END OF EACH DAY'S OPERATION. WHERE PERMANENT MARKINGS ARE CALLED FOR IN THESE PLANS, THE CONTRACTOR SHALL FURNISH AND PLACE THE PERMANENT MARKINGS WITHIN 30 CALENDAR DAYS, FOLLOWING COMPLETION OF ALL SURFACE COURSES IN A SINGLE ROADWAY OR PRIOR TO THE END OF THE CONSTRUCTION SEASON, WHICHEVER COMES FIRST.

THE MATERIAL FURNISHED SHALL BE FLEXIBLE RETROREFLECTIVE, PREFORMED PRESSURE SENSITIVE TAPE FOR PAVEMENT LINES. IT SHALL BE FREE OF CRACKS WITH STRAIGHT EDGES AND CONSIST OF PIGMENT AND FILLERS, BUT HAVE SUFFICIENT BINDER AND PLASTICIZER TO RETAIN GLASS BEADS HAVING AN APPROPRIATE REFRACTIVE INDEX TO MEET MINIMUM REFLECTIVE INTENSITY STANDARDS OUTLINED IN THE MANUFACTURER'S INFORMATION. MATERIAL SHALL BE FLEXOLITE "WET REFLECTIVE", 3M "SCOTCHLAME," OR APPROVED EQUAL.

GLASS BEADS SHALL BE MIXED UNIFORMLY THROUGHOUT THE MARKING MATERIAL WITH SUFFICIENT SURFACE BEADS TO PROVIDE OPTIMUM REFLECTORIZATION AT ALL TIMES.

THE MATERIAL SHALL HAVE A PRECOATED ADHESIVE LAYER FOR PAVEMENT APPLICATION WITHOUT THE USE OF HEAT, SOLVENTS OR ADDITIONAL ADHESIVES. THE ADHESIVE SHALL BE SUFFICIENT TO RETAIN COMPLETE MARKINGS ON THE PAVEMENT SURFACE THROUGHOUT THE USEFUL LIFE OF THE MARKINGS.

WHITE MARKING MATERIAL SHALL BE FREE OF TINT. YELLOW MATERIAL SHALL CONFORM TO COLOR NO. 33538 OF FEDERAL STANDARD 595.

IN ADDITION, ALL APPLICABLE MANUFACTURER'S MATERIAL AND APPLICATION INSTRUCTIONS, IN FORCE AT THE TIME OF PLACEMENT, SHALL BE ADHERED TO. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER CERTIFICATION THAT THE MATERIAL SUPPLIED MEETS THE PROPERTIES SPECIFIED HEREIN.

MARKINGS SHALL BE ACCURATELY LAID OUT IN CONFORMANCE WITH 621.051 AND SHALL BE LOCATED IN A TRUE LINE ON THE CENTER LINE, LANE LINE, OR CHANNELIZING LINE WHERE NORMAL PERMANENT MARKING WOULD LIE, UNLESS OTHERWISE SPECIFIED IN THE PLANS. THE TEMPORARY TAPE SHALL BE PLACED BY ROLLING THE MATERIAL INTO THE SURFACE.

THE CONTRACTOR SHALL PROVIDE COMPLETE PAVEMENT MARKINGS FOR ALL TEMPORARY ROADS CONSTRUCTED FOR THIS PROJECT, IN ACCORDANCE WITH MATERIAL AND PERFORMANCE REQUIREMENTS DESCRIBED HEREIN AND IN THE OHIO MANUAL AS DEFINED IN 614.03.

IN ADDITION TO THE REQUIREMENT OF 614.03, THE CONTRACTOR SHALL, PRIOR TO PLACING TEMPORARY MARKINGS, REMOVE ALL EXISTING CONFLICTING MARKINGS THAT ARE VISIBLE TO THE TRAVELING PUBLIC DURING DAYLIGHT OR NIGHTTIME HOURS. WHEN TEMPORARY MARKINGS ARE NO LONGER NEEDED, ANY CONFLICTING MARKINGS VISIBLE TO THE TRAVELING PUBLIC SHALL BE REMOVED BY THE CONTRACTOR BEFORE THE FLOW OF TRAFFIC IS DIVERTED TO THE NEXT PHASES. REMOVAL OF EXISTING OR TEMPORARY MARKINGS SHALL BE PERFORMED IN ACCORDANCE WITH 621.134. THE COST FOR REMOVAL OF CONFLICTING MARKINGS SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS UNLESS SPECIFICALLY PAID FOR AS A SEPARATE ITEM.

THE CONTRACTOR MAY REDUCE THE NUMBER OF THROUGH TRAFFIC LANES BY 50% IN ORDER TO REMOVE PAVEMENT MARKINGS OR TO INSTALL PAVEMENT MARKINGS. HE SHALL LIMIT THE AFOREMENTIONED CLOSURE TO BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M. ALL TEMPORARY PAVEMENT MARKINGS FOR A PARTICULAR CLOSURE SHALL BE INSTALLED THE SAME DAY AND THE CORRESPONDING CLOSURE AS DETAILED ON THE MAINTENANCE OF TRAFFIC SHEETS SHALL BE IMPLEMENTED IMMEDIATELY.

~~INTERMEDIATE~~

~~TEMPORARY MARKINGS SHALL BE PLACED IN ACCORDANCE WITH LAYOUTS ON SHEETS 6-9 AND THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED IN THE PLANS:~~

~~CENTER LINES AND LANE LINES SHALL CONSIST OF 12" X 4" SEGMENTS SPACED AT A MAXIMUM 40' CENTER TO CENTER; CHANNELIZING LINES SHALL BE 12" X 4" SEGMENTS SPACED AT MAXIMUM 20' CENTER TO CENTER. FREEWAY AND EXPRESSWAY GORE MARKINGS SHALL BE TWO CONTINUOUS LINES, 4" WIDE.~~

~~AS AN ALTERNATE MATERIAL TO PAVEMENT MARKINGS TAPE, THE CONTRACTOR MAY FURNISH AND APPLY PAINTED RETROREFLECTIVE PAVEMENT MARKINGS CONFORMING TO 621. THE WIDTH AND LENGTH OF PAINTED SEGMENT SHALL BE THE SAME AS REQUIRED FOR TEMPORARY TAPE MATERIAL. THE PAINT APPLICATION RATE SHALL BE NOT LESS THAN 16 GALLONS PER MILE FOR A SOLID LINE NOR LESS THAN 0.4 GALLONS PER MILE FOR THE 12" X 4" DASHED LINE.~~

~~C. LANE CLOSURES~~

~~TEMPORARY MARKINGS SHALL BE PLACED IN ACCORDANCE WITH LAYOUTS ON SHEETS 6-9 AND THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED IN THE PLANS:~~

~~CENTER LINES, LANE LINES AND CHANNELIZING LINES SHALL BE A CONTINUOUS 4" SEGMENT. PAINTED PAVEMENT MARKINGS WILL NOT BE ALLOWED FOR LANE CLOSURES.~~

~~D. PAYMENT~~

~~THE FOLLOWING ARE ESTIMATED QUANTITIES INCLUDED IN THE GENERAL SUMMARY FOR USE BY THE ENGINEER:~~

~~LANE CLOSURES:~~

ITEM 614	TEMPORARY EDGE LINE	2.12 MILES
ITEM 614	TEMPORARY CONTINUOUS LANE LINE	0.96 MILES
ITEM 614	TEMPORARY ARROWS	3 EA.

~~ITEM 621 PAVEMENT MARKINGS~~

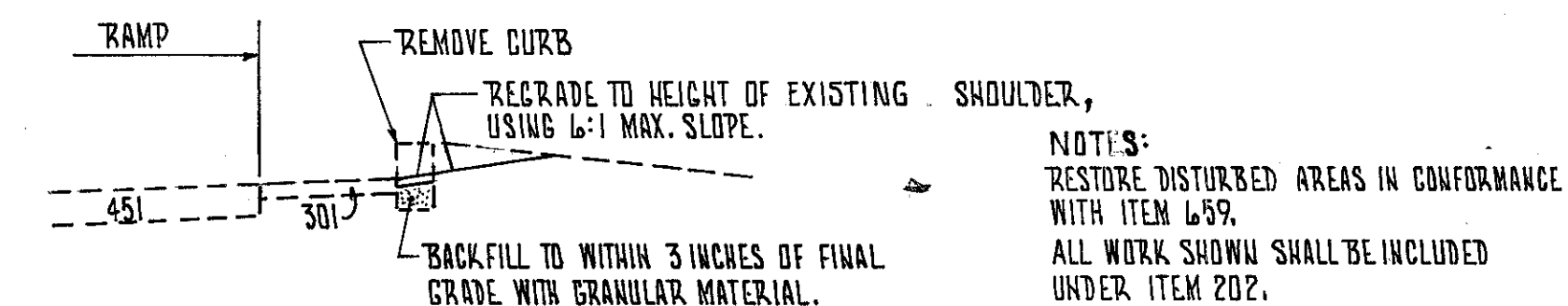
~~THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR REPLACEMENT OF PERMANENT PAVEMENT MARKINGS WHICH HAVE BEEN REMOVED OR DISTURBED DURING CONSTRUCTION OF THIS PROJECT.~~

ITEM 621	EDGE LINE	1.85 MILES
ITEM 621	LANE LINE	1.20 MILES

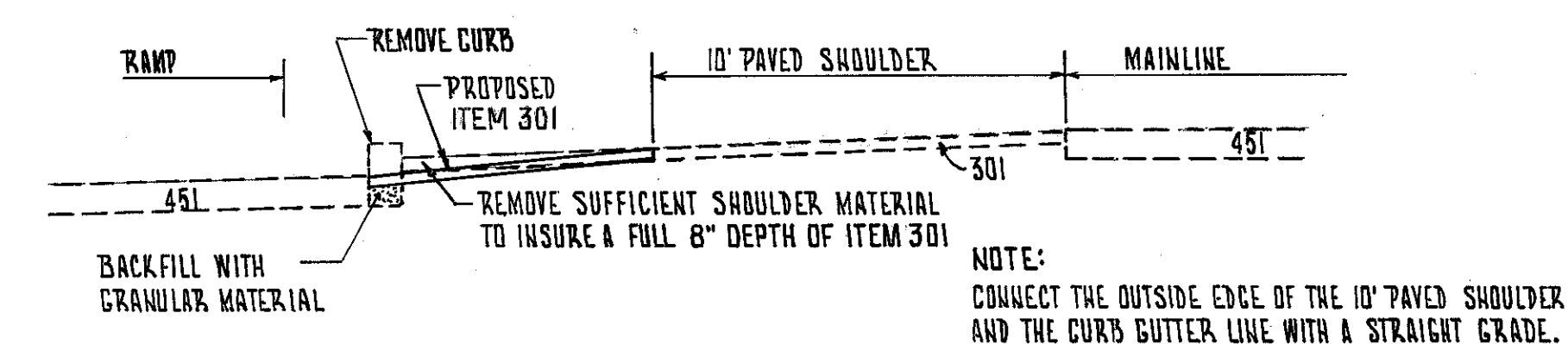
ITEM 202 CURB REMOVED, AS PER PLAN

THE FOLLOWING DETAILS AND SPECIFICATIONS SHALL APPLY TO THIS ITEM OF WORK.

TYPE 7 CURB REMOVED



TYPE 8 CURB REMOVED (MAINLINE AND RAMP ON UPGRADE)



ALL COST OF LABOR AND MATERIALS TO PERFORM ALL WORK AS DETAILED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 202 CURB REMOVED, AS PER PLAN.