ITEM 614 - MAINTAINING TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON ALL EXISTING ROADWAYS IN ACCORDANCE WITH THE OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

PN 127 - LANE VALUE CONTRACT

THE CONTRACTOR SHALL BE ASESSED DISINCENTIVES AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE BELOW FOR EACH UNIT OF TIME THE DESCRIBED CRITICAL LANE IS RESTRICTED FROM FULL USE BY THE TRAVELING PUBLIC WITHIN THE RESTRICTED TIME PERIOD. THE DISINCENTIVES WILL BE ASSESSED FOR ALL RESTRICTIONS OF THE CRITICAL WORK.

CRITICAL WORK IS SHOWN IN THE LANE VALUE CONTRACT TABLE BELOW.

CRITICAL WORK IS DEFINED AS HAVING THE DESIGNATED SECTIONS OPEN TO UNRESTRICTED TRAFFIC AS SHOWN IN THE TABLE, OR THE ENTIRE PROJECT IF NOT OTHERWISE LISTED.

UNRESTRICTED TRAFFIC IS DEFINED AS ALL TRAFFIC LANES BEING AVAILABLE FOR USE WITH TEMPORARY SAFETY FEATURES IN PLACE.

DESCRIPTION OF CRITICAL LANE TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE $ PER TIME UNIT
2 LANES (EACH DIRECTION) OF LOR IR 90 FROM MM 17.33 TO MM 18.41	6 AM TO 7 PM	EACH MINUTE	$250

THE CONTRACTOR SHALL DIVERT TRAFFIC FROM NORMAL CHANNELS BY PLASTIC DRUMS, PORTABLE BARRIER, TRAFFIC SIGNS, AND WORK ZONE PAVEMENT MARKINGS, AS SHOWN ON SHEETS 20- 47.

A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT AND COMPLETED PAVEMENT. AN EXCEPTION WILL BE MADE TO THIS RULE DURING PRE-PHASE 1 TEMPORARY PAVEMENT CONSTRUCTION. DURING PRE-PHASE 1 A SINGLE LANE CLOSURE IN EACH DIRECTION WILL BE ALLOWED AT NIGHT (7PM-6AM). NIGHT CLOSURES MAY ALSO BE PERMITTED DURING PHASE 1 IF NEEDED.

THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (419) 281-0513, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL BARRICADES, SIGNS, SIGN SUPPORTS AND INCIDENTALS RELATED TO TRAFFIC CONTROL SO AS TO AVOID DAMAGE AND/OR INJURY TO VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION.

SIGNS FURNISHED SHALL BE IN NEW OR LIKE NEW CONDITIONS. LIKE NEW SIGNS SHALL BE SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR PROVIDING AND MAINTAINING ALL SIGNS AND BARRICADES FOR THE MAINTENANCE OF TRAFFIC AND SAFETY OF HIS/HER WORK AT THE LOCATIONS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER.

EXISTING TRAFFIC CONTROL DEVICES LOCATED WITHIN THE WORK AREA, WHICH ARE REQUIRED FOR INTERIM OR PERMANENT TRAFFIC CONTROL, SHALL BE RELOCATED TO POINTS APPROVED BY THE ENGINEER. APPROPRIATE TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED, IN COMPLIANCE WITH THE MANUAL, AT ALL TIMES WHILE TRAFFIC IS MAINTAINED. THE COST OF RELOCATION, IF REQUIRED, SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

ITEM 614 - MAINTAINING TRAFFIC (CONT.)

TRUCK MOUNTED ATTENUATORS (TMA'S) SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.

NO WORK SHALL BE PERFORMED AND ALL LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEAR'S	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF $250 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED (PER THE LANE VALUE CONTRACT PN 127).

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.

IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS AND PROVISIONS OF THE OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC, THE ENGINEER SHALL SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 1.5 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

DRUM REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 55 M. GAL.

ITEM 614, REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 15 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

ITEM 614, REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 50 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

WORK ZONE INCREASED PENALTIES SIGN (R11-H5a)

R11-H5a SIGNS SHALL BE FURNISHED, ERECTED AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

THE R11-H5a SIGNS SHALL BE MOUNTED ON 2 NO. 3 POSTS WHEN LOCATED WITHIN CLEAR ZONES.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF C&MS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, AND COVERING DURING SUSPENSION OF WORK AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 2 EACH

ITEM 615, ROADS FOR MAINTAINING TRAFFIC

PAYMENT FOR ITEM 615, ROADS FOR MAINTAINING TRAFFIC SHALL INCLUDE THE FOLLOWING EARTHWORK, AND ANY OTHER INCIDENTAL ITEMS REQUIRED TO CONSTRUCT THE TEMPORARY PAVEMENT IN PRE-PHASE 1.

ITEM 203, EXCAVATION 2370 CY

CALCULATED ML V CHECKED JML

MAINTENANCE OF TRAFFIC NOTES

LOR-90-17.85

TRAFFIC RESTRICTIONS PLAN

THE CONTRACTOR IS REQUIRED TO SUBMIT A PLAN OUTLINING ALL ANTICIPATED TRAFFIC RESTRICTIONS PRIOR TO THE START OF EACH SEASON. THIS INCLUDES LANE CLOSURES, TRAFFIC SHIFTS, SHORT TERM CLOSURES FOR BEAM REMOVAL OR ERECTION, ETC.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURE	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 CALENDAR DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO CLOSURE

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ITEM 642, WORK ZONE SPEED ZONES (WZSZs)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISIONS HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISIONS NUMBER(S)	COUNTY-ROUTE-SECTION	DIRECTION
WZ-20487	LOR-90-17.33 TO LOR-90-17.84 (STA. 899+00 TO STA. 925+93)	EB & WB
WZ-20488	LOR-90-17.84 TO LOR-90-18.41 (STA. 925+93 TO STA. 956+20)	EB & WB

WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE

ITEM 642, WORK ZONE SPEED ZONES (WZSZs) (CONT.)

CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH) FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS

	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
ORIGINAL POSTED SPEED LIMIT	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 808, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY 36 SIGN MNTH ASSUMING 4 DSL SIGN ASSEMBLIES FOR 9 MONTHS

ITEM 622, PORTABLE BARRIER PLACEMENT

DURING THE PLACEMENT OF THE PORTABLE BARRIER, TRAFFIC WILL BE PROHIBITED FROM OCCUPYING THE TRAVEL LANE ADJACENT TO THE BARRIER. THE BARRIER WILL BE PLACED AT NIGHT PER THE WORK HOUR RESTRICTION NOTE AND IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE MAP. THE CLOSURE OF THE ADJACENT LANE WILL BE PER THE STANDARD DRAWING MT-95.30.

THE CONTRACTOR WILL SUBMIT PLAN TO THE ENGINEER FOR APPROVAL SEVEN (7) DAYS IN ADVANCE OF THE PLANNED LANE CLOSURE. WORK WILL NOT BEGIN UNTIL APPROVAL OF THE PLANS HAS BEEN GRANTED.

ALL COSTS INVOLVED IN PLACING THE PORTABLE CONCRETE BARRIER WILL BE INCLUDED IN THE CONTRACT PRICE BID FOR ITEM 622 PORTABLE BARRIER.

ITEM 253, PAVEMENT REPAIR

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED FOR ITEM 253, PAVEMENT REPAIR. THIS IS A CONTINGENCY ITEM AND SHALL ONLY BE USED AS DIRECTED BY THE ENGINEER.

THIS CONTINGENCY QUANTITY ASSUMES FULL DEPTH PAVEMENT REPAIR OF 20% OF THE PAVEMENT PLANING AREA. THE QUANTITY ALSO ASSUMES 90% OF THE VOLUME BEING FOR TRANSVERSE REPAIRS AND 10% OF THE VOLUME BEING FOR LONGITUDINAL REPAIRS.

ITEM 253, PAVEMENT REPAIR 2131 CY

ITEM 254, PATCHING PLANED SURFACE

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED FOR ITEM 254, PATCHING OF PLANED SURFACE. THIS IS A CONTINGENCY ITEM AND SHALL ONLY BE USED AS DIRECTED BY THE ENGINEER.

ITEM 254, PATCHING PLANED SURFACE 3488 SY

ITEM 642, TRAFFIC PAINT, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND APPLYING WET REFLECTIVE (WR) OPTICS (BEADS OR ELEMENTS), GLASS BEADS, AND TRAFFIC PAINT ACCORDING TO 640, 740, AND THE ADDITIONAL REQUIREMENTS SPECIFIED BELOW.

FURNISH MATERIALS CONFORMING TO:
TRAFFIC PAINT.....740.02
GLASS BEADS.....740.09

FURNISH ONE OF THE FOLLOWING WET REFLECTIVE OPTICS: 3M CONNECTED ROADS ALL WEATHER ELEMENTS SERIES 50/51, POTTERS INDUSTRIES VISI-ULTRA, SWARCO DURALUX, OR APPROVED EQUAL.

IN ADDITION TO THE REQUIREMENTS OF 642.03, FURNISH EQUIPMENT CAPABLE OF APPLYING WR OPTICS AT THE TIME OF LINE PLACEMENT.

THE PAVEMENT SURFACE SHALL BE FREE OF LOOSE MATERIAL AND COMPLETELY DRY PRIOR TO THE APPLICATION OF THE PAVEMENT MARKINGS.

PLACE TRAFFIC PAINT AT A THICKNESS OF 20 MILS (0.51 MM). DROP WR OPTICS FROM THE FORWARD-MOST BEAD APPLICATOR GUN AT A MINIMUM RATE OF 5 POUNDS PER 100 SQUARE FEET (2.4 KILOGRAM PER 10 M2). DROP GLASS BEADS AT A MINIMUM RATE OF 8 POUNDS PER 100 SQUARE FEET (3.9 KILOGRAM PER 10 M2) FROM THE REAR BEAD APPLICATOR GUN.

THE DEPARTMENT WILL MEASURE PAVEMENT MARKINGS COMPLETE IN PLACE IN THE UNITS DESIGNATED. THE DEPARTMENT WILL MEASURE LINE QUANTITIES AS THE LENGTH OF THE COMPLETED MARKING, INCLUDING GAPS, INTERSECTIONS, AND OTHER SECTIONS OF PAVEMENT NOT NORMALLY MARKED.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT CONTRACT PRICES, OR PRICES ADJUSTED ACCORDING TO 641.11, MEASURED ACCORDING TO 641.12, WITH THE PROVISIONS SPECIFIED IN 641.13, AND AS FOLLOWS:

ITEM	UNIT	DESCRIPTION
642	MILE	EDGE LINE, 6 INCH, TYPE 1, AS PER PLAN
642	FOOT	CHANNELIZING LINE, 8 INCH, TYPE 1, AS PER PLAN

CALCULATED ML V CHECKED JML

MAINTENANCE OF TRAFFIC NOTES

LOR-90-17.85

SHEET NO.	REFERENCE NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	614 INCREASED BARRIER DELINEATION	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (20' SPACING, ONE-WAY WHITE)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (20' SPACING, ONE-WAY YELLOW)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (120' SPACING, ONE-WAY WHITE)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (120' SPACING, ONE-WAY YELLOW)	614 BARRIER REFLECTOR, TYPE 1, (ONE WAY), WHITE	614 BARRIER REFLECTOR, TYPE 1, (TWO WAY), YELLOW/YELLOW	614 OBJECT MARKER, ONE WAY	614 OBJECT MARKER, TWO WAY	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	622 PORTABLE BARRIER, 32", UNANCHORED	622 PORTABLE BARRIER, 32", ANCHORED	642 EDGE LINE, 6", TYPE 1, AS PER PLAN (WHITE)	642 EDGE LINE, 6", TYPE 1, AS PER PLAN (YELLOW)	642 CHANNELIZING LINE, 8", TYPE 1, AS PER PLAN (WHITE)		
						FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SY	FT	FT	MILE	MILE	FT		
PHASE 1 QUANTITIES																							
21 - 28	EW-1	I.R. 90 WB	903+35	951+20	LT														0.91				
21 - 28	EW-2	I.R. 90 EB	904+35	951+20	RT														0.88				
21 - 28	CL-1	I.R. 90 WB	903+35	951+20	LT																4,798		
21 - 28	CL-2	I.R. 90 EB	904+35	951+20	RT																4,673		
21 - 28	EY-1	I.R. 90 WB	903+35	951+20	LT															0.91			
21 - 28	EY-2	I.R. 90 EB	904+35	951+20	RT															0.89			
21 - 22		I.R. 90 WB	903+35	907+00	LT			18															
22 - 27		I.R. 90 WB	907+00	948+00	LT					34													
27 - 28		I.R. 90 WB	948+00	951+20	LT			16															
21 - 22		I.R. 90 WB	903+35	907+00	LT			18															
22 - 27		I.R. 90 WB	907+00	948+00	LT					34													
27 - 28		I.R. 90 WB	948+00	951+20	LT			16															
21 - 22		I.R. 90 WB	903+35	907+00	LT				18														
22 - 27		I.R. 90 WB	907+00	948+00	LT						34												
27 - 28		I.R. 90 WB	948+00	951+20	LT				16														
21 - 22		I.R. 90 EB	904+35	907+10	RT			14															
22 - 27		I.R. 90 EB	907+10	948+60	RT					34													
27 - 28		I.R. 90 EB	948+60	951+20	RT			13															
21 - 22		I.R. 90 EB	904+35	907+10	RT			14															
22 - 27		I.R. 90 EB	907+10	948+60	RT					34													
27 - 28		I.R. 90 EB	948+60	951+20	RT			13															
21 - 22		I.R. 90 EB	904+35	907+10	RT				14														
22 - 27		I.R. 90 EB	907+10	948+60	RT						35												
27 - 28		I.R. 90 EB	948+60	951+20	RT				13														
21 - 24	PV-1	I.R. 90 WB	904+50	927+19	LT											1264							
21 - 24	PV-2	I.R. 90 EB	904+75	926+86	RT											1225							
25 - 28	PV-3	I.R. 90 WB	929+08	950+75	LT											1205							
25 - 27	PV-4	I.R. 90 EB	928+50	950+50	RT											1221							
24	PV-5	I.R. 90 WB	924+84.23	927+47	LT											292							
25	PV-6	I.R. 90 WB	928+29	929+85	LT											173							
24	PV-7	I.R. 90 EB	925+04.23	926+71	RT											185							
24 - 25	PV-8	I.R. 90 EB	928+29	929+35	RT											118							
PHASE 2 QUANTITIES																							
30 - 38	EW-3	I.R. 90 WB	906+04	948+95	LT														0.82				
30 - 38	EW-4	I.R. 90 EB	905+84	949+30	RT														0.82				
30 - 38	CL-3	I.R. 90 WB	906+04	948+95	LT																4,307		
30 - 38	CL-4	I.R. 90 EB	905+84	949+30	RT																4,331		
30 - 38	EY-3	I.R. 90 WB	906+04	948+95	LT															0.82			
30 - 38	EY-4	I.R. 90 EB	905+84	949+30	RT															0.82			
SUBTOTALS CARRIED TO SHEET 15								389								5,683			6.86		18,109		

CALCULATED MLV
CHECKED JML

MAINTENANCE OF TRAFFIC SUBSUMMARY

LOR-90-17.85

SHEET NO.	REFERENCE NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	614 INCREASED BARRIER DELINEATION	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (20' SPACING, ONE-WAY WHITE)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (20' SPACING, ONE-WAY YELLOW)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (120' SPACING, ONE-WAY WHITE)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (120' SPACING, ONE-WAY YELLOW)	614 BARRIER REFLECTOR, TYPE 1, (ONE WAY), WHITE	614 BARRIER REFLECTOR, TYPE 1, (TWO WAY), YELLOW/YELLOW	614 OBJECT MARKER, ONE WAY	614 OBJECT MARKER, TWO WAY	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	622 PORTABLE BARRIER, 32", UNANCHORED	622 PORTABLE BARRIER, 32", ANCHORED	642 EDGE LINE, 6", TYPE 1, AS PER PLAN (WHITE)	642 EDGE LINE, 6", TYPE 1, AS PER PLAN (YELLOW)	642 CHANNELIZING LINE, 8", TYPE 1, AS PER PLAN (WHITE)		
						FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SY	FT	FT	MILE	MILE	FT		
PHASE 2 QUANTITIES (CONTINUED)																							
30 - 31		I.R. 90 WB	906+04	909+64	LT			18															
31 - 37		I.R. 90 WB	909+64	944+85	LT					30													
37 - 38		I.R. 90 WB	944+85	948+95	LT			21															
30 - 31		I.R. 90 WB	906+04	909+64	LT			18															
31 - 37		I.R. 90 WB	909+64	944+85	LT					29													
37 - 38		I.R. 90 WB	944+85	948+95	LT			21															
30 - 31		I.R. 90 WB	906+04	909+64	LT				18														
31 - 37		I.R. 90 WB	909+64	944+85	LT						29												
37 - 38		I.R. 90 WB	944+85	948+95	LT				21														
30 - 31		I.R. 90 EB	905+84	909+44	RT			18															
31 - 37		I.R. 90 EB	909+44	945+15	RT					30													
37 - 38		I.R. 90 EB	945+15	949+30	RT			21															
30 - 31		I.R. 90 EB	905+84	909+44	RT			18															
31 - 37		I.R. 90 EB	909+44	945+15	RT					30													
37 - 38		I.R. 90 EB	945+15	949+30	RT			21															
30 - 31		I.R. 90 EB	905+84	909+44	RT				18														
31 - 37		I.R. 90 EB	909+44	945+15	RT						30												
37 - 38		I.R. 90 EB	945+15	949+30	RT				21														
31		I.R. 90 EB	908+54		RT		1																
31 - 37	PB-1	I.R. 90 EB	908+74	945+15	RT													3650					
31		I.R. 90 EB	908+74	909+44	RT	80																	
31 - 37		I.R. 90 EB	909+44	945+15	RT								71		71								
31 - 38	PB-2	I.R. 90 WB	909+64	946+34	LT													3710					
31 - 37		I.R. 90 WB	909+64	944+85	LT								71		71								
37 - 38		I.R. 90 WB	944+85	946+34	LT	160																	
38		I.R. 90 WB	946+54		LT		1																
PHASE 3 QUANTITIES																							
40 - 46	EW-5	I.R. 90 WB	909+74	944+85.00	LT														0.67				
40 - 46	EW-6	I.R. 90 EB	909+44	945+05.00	RT														0.67				
40 - 46	CL-5	I.R. 90 WB	909+74	944+85.00	LT																3520		
40 - 46	CL-6	I.R. 90 EB	909+44	94+50.00	RT																3553		
40 - 46	EY-5	I.R. 90 WB	909+74	944+85.00	LT															0.67			
40 - 46	EY-6	I.R. 90 EB	909+44	945+05.00	RT															0.67			
SUBTOTALS CARRIED TO SHEET 15						240	2	409					142		142			7,360	2.68		7,073		

CALCULATED MLV
CHECKED JML

MAINTENANCE OF TRAFFIC SUBSUMMARY

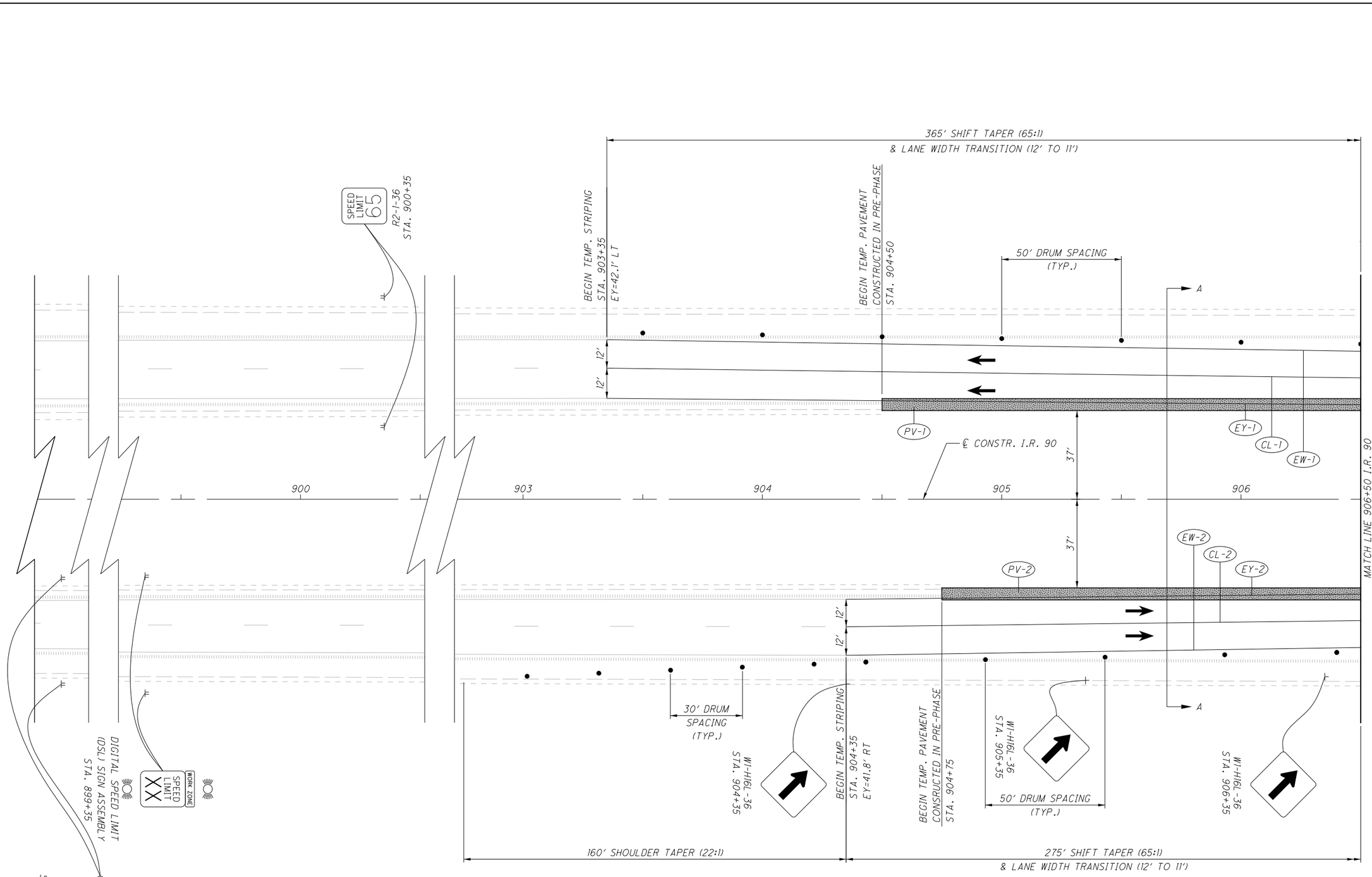
LOR-90-17.85

SHEET NO.	REFERENCE NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	614 INCREASED BARRIER DELINEATION	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (20' SPACING, ONE-WAY WHITE)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (20' SPACING, ONE-WAY YELLOW)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (120' SPACING, ONE-WAY WHITE)	614 WORK ZONE RAISED PAVEMENT MARKER, APP (120' SPACING, ONE-WAY YELLOW)	614 BARRIER REFLECTOR, TYPE 1, (ONE WAY), WHITE	614 BARRIER REFLECTOR, TYPE 1, (TWO WAY), YELLOW/YELLOW	614 OBJECT MARKER, ONE WAY	614 OBJECT MARKER, TWO WAY	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	622 PORTABLE BARRIER, 32", UNANCHORED	622 PORTABLE BARRIER, 32", ANCHORED	642 EDGE LINE, 6", TYPE 1, AS PER PLAN (WHITE)	642 EDGE LINE, 6", TYPE 1, AS PER PLAN (YELLOW)	642 CHANNELIZING LINE, 8", TYPE 1, AS PER PLAN (WHITE)		
						FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SY	FT	FT	MILE	MILE	FT		
PHASE 3 QUANTITIES (CONTINUED)																							
40 - 43		I.R. 90 WB	909+74	924+74	LT			75															
43 - 44		I.R. 90 WB	924+74	929+85	LT					4													
44 - 46		I.R. 90 WB	929+85	944+85	LT			75															
40 - 43		I.R. 90 WB	909+74	924+74	LT			75															
43 - 44		I.R. 90 WB	924+74	929+85	LT					4													
44 - 46		I.R. 90 WB	929+85	944+85	LT			75															
40 - 43		I.R. 90 WB	909+74	924+74	LT				75														
43 - 44		I.R. 90 WB	924+74	929+85	LT						4												
44 - 46		I.R. 90 WB	929+85	944+85	LT				75														
40 - 43		I.R. 90 EB	909+44	925+04	RT			78															
43 - 44		I.R. 90 EB	925+04	929+45	RT					4													
44 - 46		I.R. 90 EB	929+45	945+05	RT			78															
40 - 43		I.R. 90 EB	909+44	925+04	RT			78															
43 - 44		I.R. 90 EB	925+04	929+45	RT					4													
44 - 46		I.R. 90 EB	929+45	945+05	RT			78															
40 - 43		I.R. 90 EB	909+44	925+04	RT				78														
43 - 44		I.R. 90 EB	925+04	929+45	RT						4												
44 - 46		I.R. 90 EB	929+45	945+05	RT				78														
42		I.R. 90 EB	920+23		RT		1																
42 - 43	PB-3	I.R. 90 EB	920+43	926+48	RT												601						
43 - 44	PB-5	I.R. 90 EB	926+48	928+83	RT													230					
44	PB-7	I.R. 90 EB	928+83	929+45	RT												70						
42 - 43		I.R. 90 EB	919+84	925+04	RT	515																	
43 - 44		I.R. 90 EB	925+04	929+45	RT							9		9									
43	PB-4	I.R. 90 WB	924+74	926+98	LT												230						
43 - 44	PB-6	I.R. 90 WB	926+98	929+20	LT													230					
45		I.R. 90 WB	934+59		LT		1																
44 - 45	PB-8	I.R. 90 WB	929+20	934+39	LT												521						
43 - 44		I.R. 90 WB	924+74	929+85	LT							10		10									
44 - 45		I.R. 90 WB	929+85	935+05	LT	515																	
SUBTOTALS FROM THIS SHEET						1,030	2	942				19		19			1,422	460					
SUBTOTALS FROM SHEET 13								389								5,683			6.86		18,109		
SUBTOTALS FROM SHEET 14						240	2	409					142		142			7,360	2.68		7,073		
TOTALS CARRIED TO GENERAL SUMMARY						1,270	4	1,740				19	142	19	142	5,683	1,422	7,820	9.54		25,182		

CALCULATED MLV
CHECKED JML

MAINTENANCE OF TRAFFIC SUBSUMMARY

LOR-90-17.85



NOTES:

1. FOR LEGEND, SEE SHEET 20
2. FOR TYPICAL SECTION, SEE SHEET 17
3. FOR EXISTING SIGNS, SEE SIGNING AND PAVEMENT MARKINGS SHEETS, 111 - 119
4. INSIDE SHOULDER REPLACEMENT WITH TEMPORARY PAVEMENT TO BE INSTALLED PRIOR TO PHASE 1 START
5. TEMPORARY PAVEMENT CONSTRUCTED OUTSIDE PERMANENT PAVEMENT LIMITS MAY REMAIN AFTER CONSTRUCTION IS COMPLETE

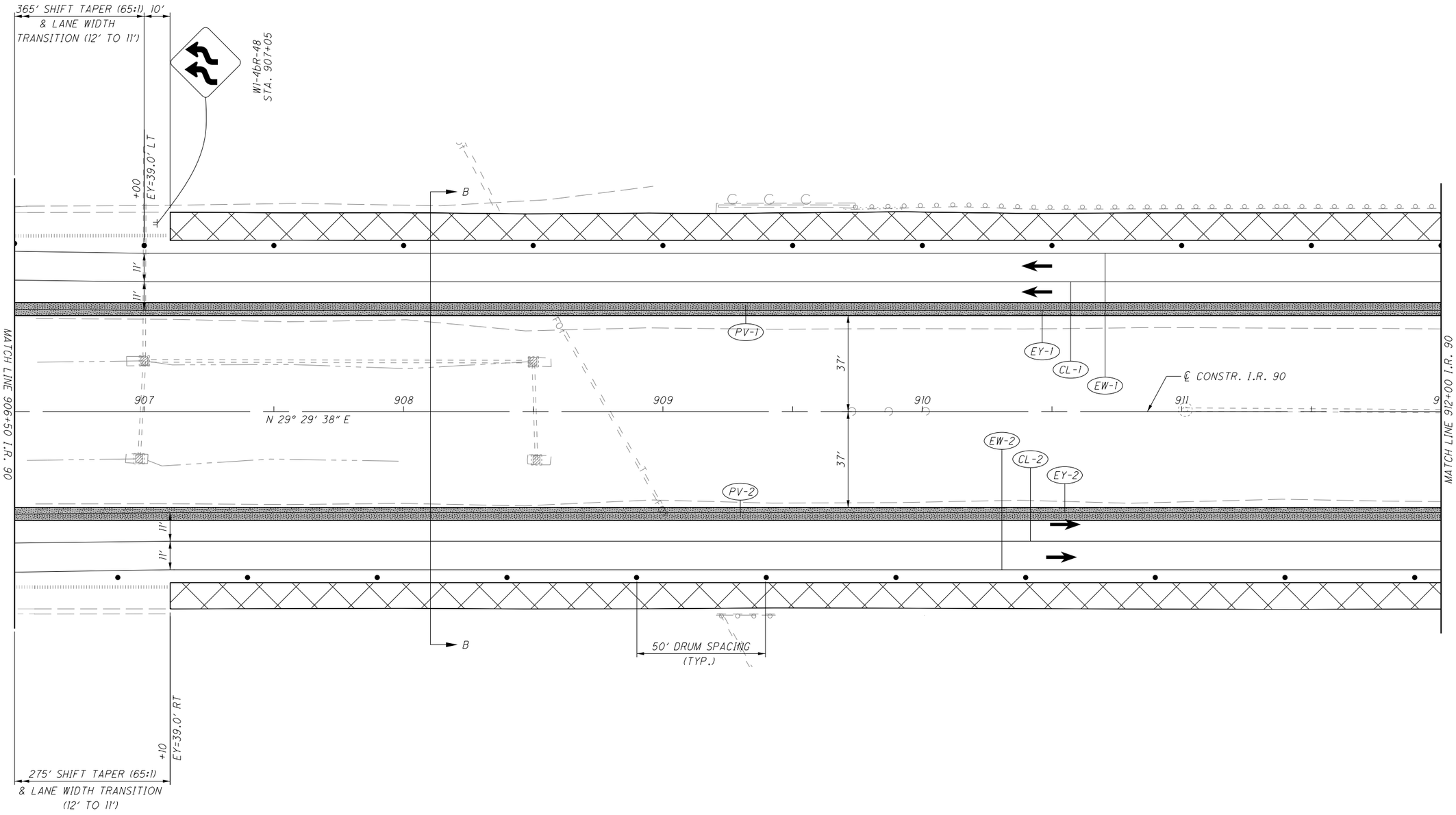
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MLV
CHECKED JML

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 894+35 TO STA. 906+50

LOR-90-17.85

NOTES:
1. FOR LEGEND, SEE SHEET 20
2. FOR TYPICAL SECTION, SEE SHEET 17
3. FOR EXISTING SIGNS, SEE SIGNING AND PAVEMENT MARKINGS SHEETS, 111 - 119
4. INSIDE SHOULDER REPLACEMENT WITH TEMPORARY PAVEMENT TO BE INSTALLED PRIOR TO PHASE 1 START
5. TEMPORARY PAVEMENT CONSTRUCTED OUTSIDE PERMANENT PAVEMENT LIMITS MAY REMAIN AFTER CONSTRUCTION

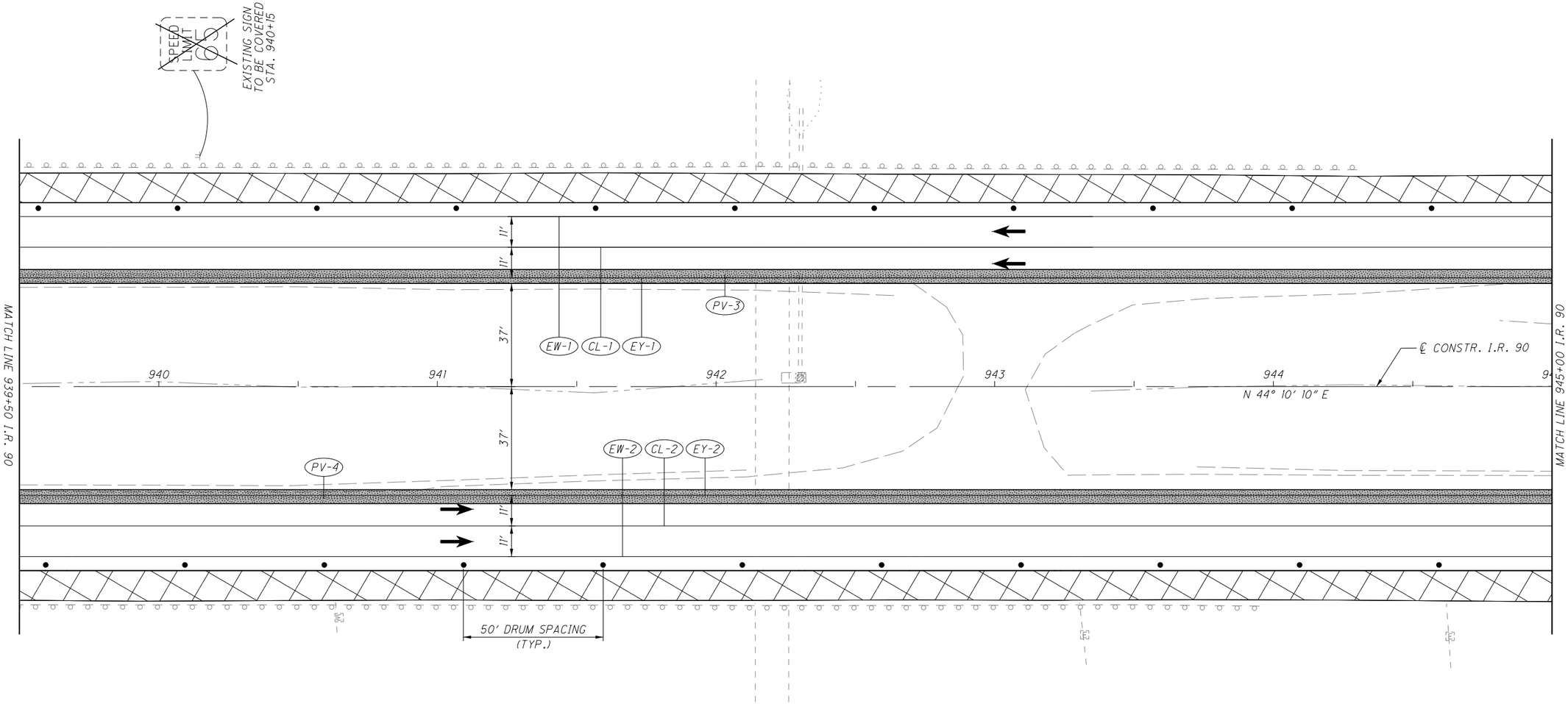


HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MLV
CHECKED JML

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 906+50 TO STA. 912+00

LOR-90-17.85



NOTES:
1. FOR LEGEND, SEE SHEET 20
2. FOR TYPICAL SECTION, SEE SHEET 17
3. FOR EXISTING SIGNS, SEE SIGNING AND PAVEMENT MARKINGS SHEETS, 111 - 119
4. INSIDE SHOULDER REPLACEMENT WITH TEMPORARY PAVEMENT TO BE INSTALLED PRIOR TO PHASE 1 START
5. TEMPORARY PAVEMENT CONSTRUCTED OUTSIDE PERMANENT PAVEMENT LIMITS MAY REMAIN AFTER CONSTRUCTION

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ML V
CHECKED JML

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 939+50 TO STA. 945+00

LOR-90-17.85

NOTES:

1. FOR LEGEND, SEE SHEET 20
2. FOR TYPICAL SECTION, SEE SHEET 17
3. FOR EXISTING SIGNS, SEE SIGNING AND PAVEMENT MARKINGS SHEETS, 111 - 119
4. INSIDE SHOULDER REPLACEMENT WITH TEMPORARY PAVEMENT TO BE INSTALLED PRIOR TO PHASE 1 START
5. TEMPORARY PAVEMENT CONSTRUCTED OUTSIDE OF PERMANENT PAVEMENT LIMITS MAY REMAIN AFTER CONSTRUCTION

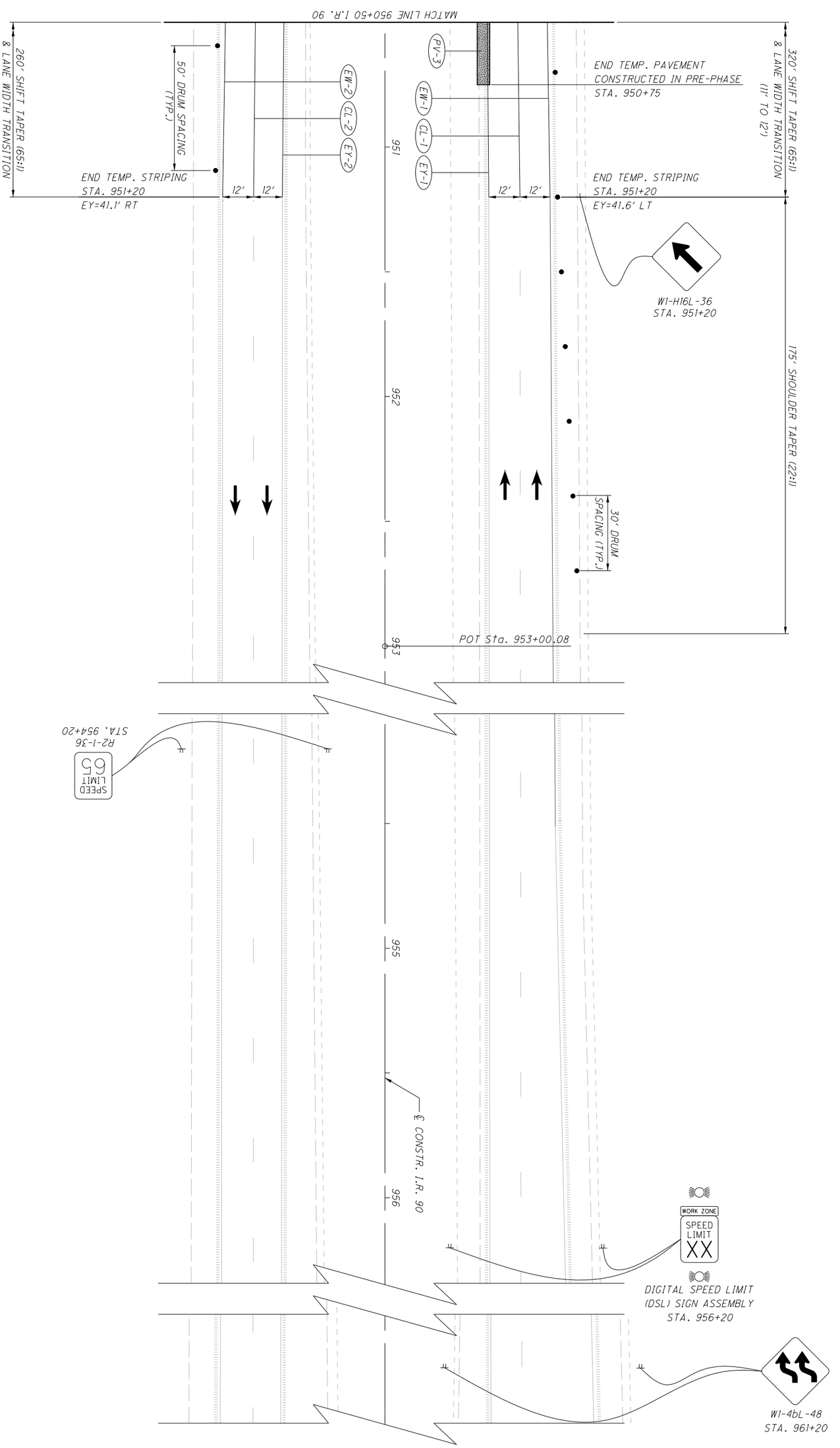
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MLV
CHECKED JML

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 945+00 TO STA. 950+50

LOR-90-17.85

2.7
196



NOTES:
1. FOR LEGEND, SEE SHEET 20
2. FOR TYPICAL SECTION, SEE SHEET 17
3. FOR EXISTING SIGNS, SEE SIGNING AND PAVEMENT MARKINGS SHEETS, 111 - 119
4. INSIDE SHOULDER REPLACEMENT WITH TEMPORARY PAVEMENT TO BE INSTALLED PRIOR TO PHASE 1 START
5. TEMPORARY PAVEMENT CONSTRUCTED OUTSIDE PERMANENT PAVEMENT LIMITS MAY REMAIN AFTER CONSTRUCTION

LOR-90-17.85

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 950+50 TO STA. 961+20

CALCULATED MLV
CHECKED JML

0 10 20 40
HORIZONTAL SCALE IN FEET

NOTES:
1. FOR LEGEND, SEE SHEET 20
2. FOR TYPICAL SECTION, SEE SHEET 19
3. FOR EXISTING SIGNS, SEE SIGNING AND PAVEMENT MARKINGS SHEETS, 111 - 119

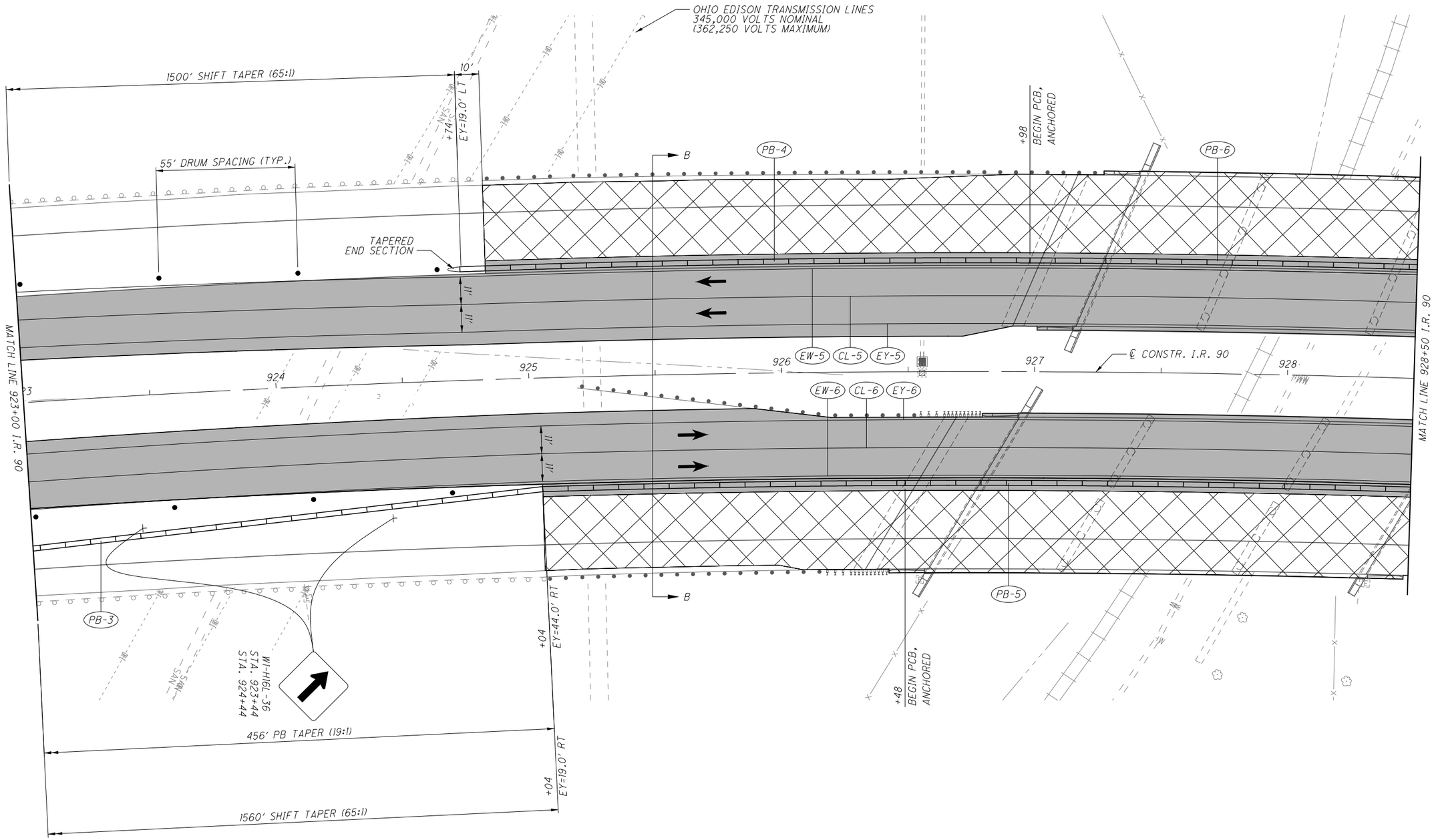
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ML V
CHECKED JML

MAINTENANCE OF TRAFFIC - PHASE 3
STA. 917+50 TO STA. 923+00

LOR-90-17.85

42
196



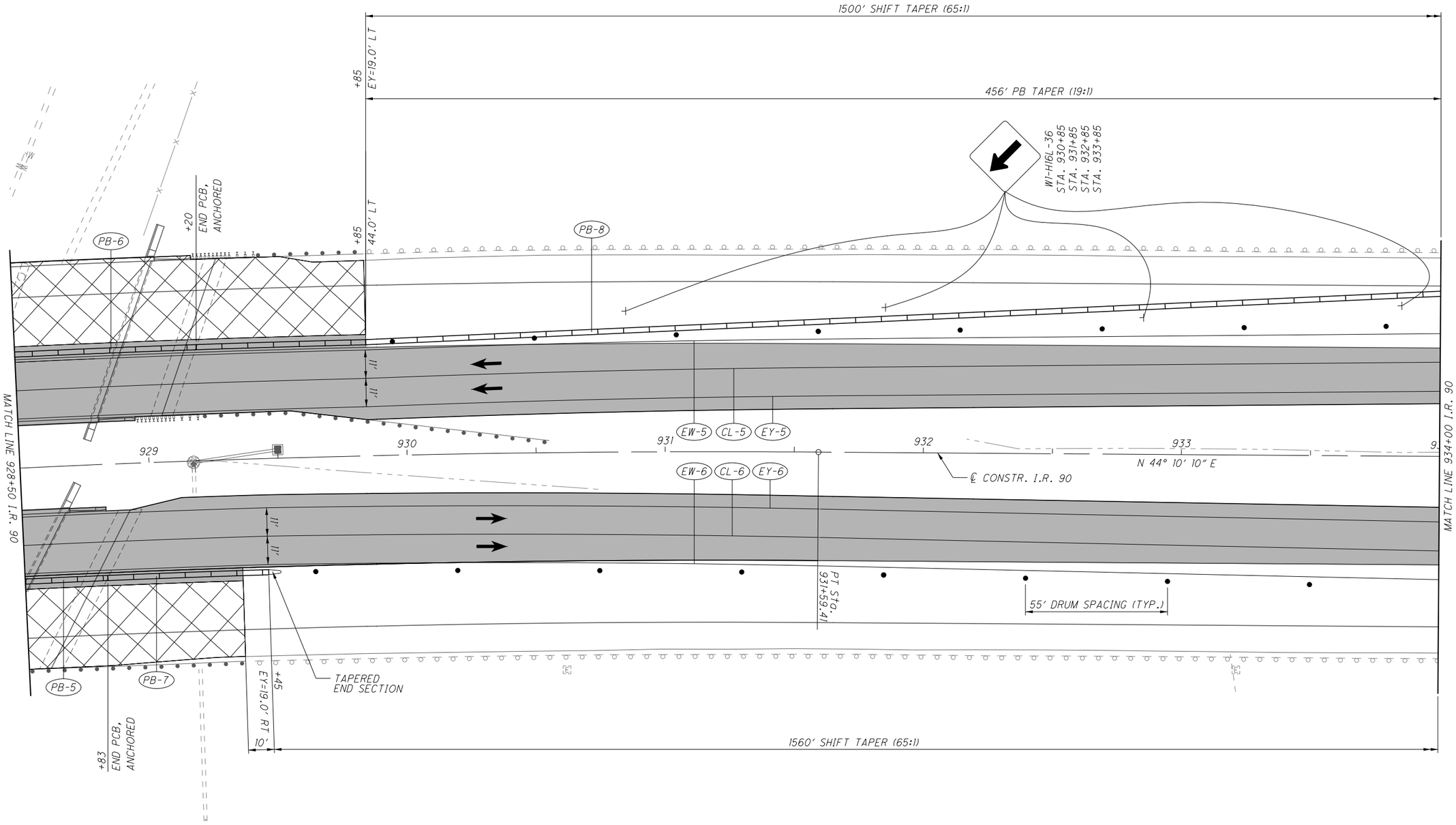
NOTES:
1. FOR LEGEND, SEE SHEET 20
2. FOR TYPICAL SECTION, SEE SHEET 19
3. FOR EXISTING SIGNS, SEE SIGNING AND PAVEMENT MARKINGS SHEETS, 111 - 119

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MLV
CHECKED JML

MAINTENANCE OF TRAFFIC - PHASE 3
STA. 923+00 TO STA. 928+50

LOR-90-17.85



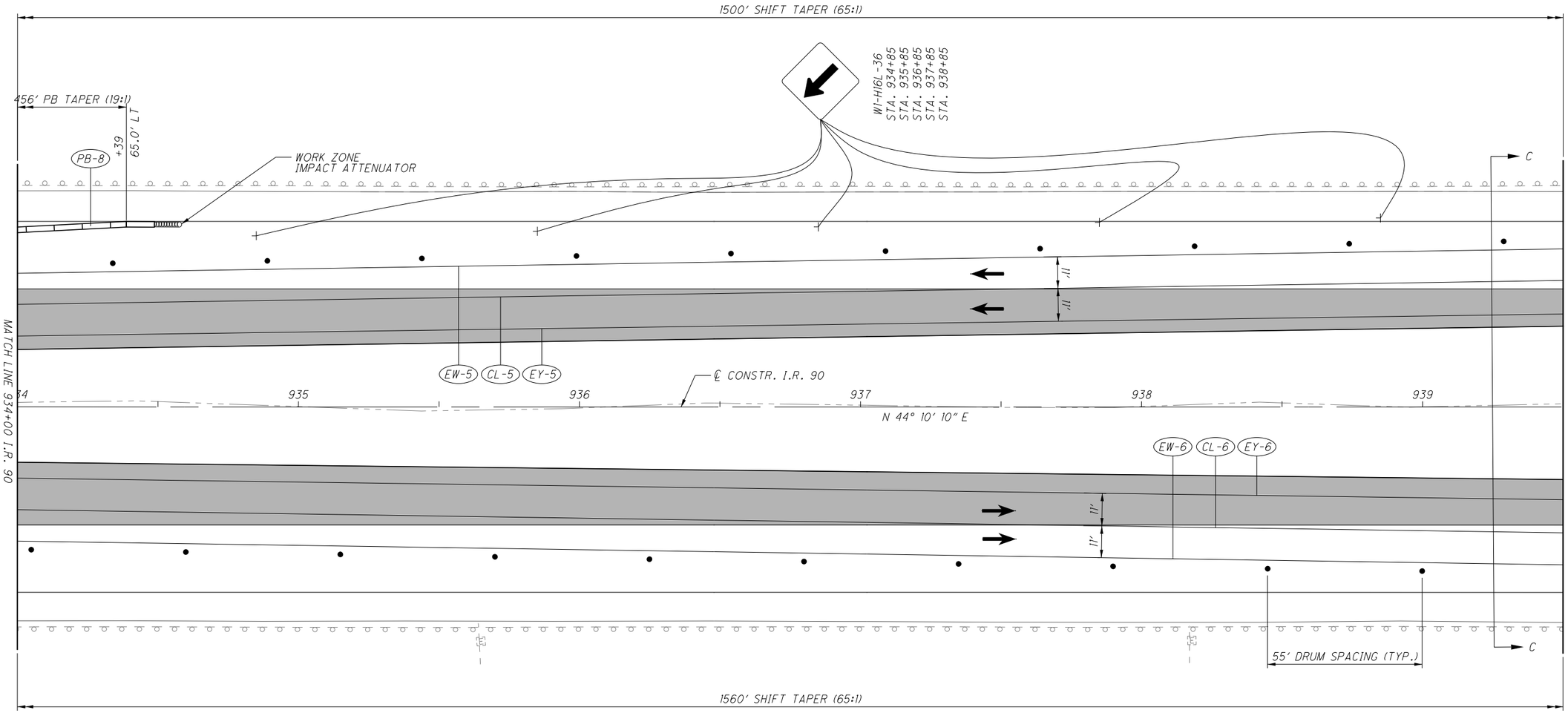
NOTES:
1. FOR LEGEND, SEE SHEET 20
2. FOR TYPICAL SECTION, SEE SHEET 19
3. FOR EXISTING SIGNS, SEE SIGNING AND PAVEMENT MARKINGS SHEETS, 111 - 119

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MLV
CHECKED JML

MAINTENANCE OF TRAFFIC - PHASE 3
STA. 928+50 TO STA. 934+00

LOR-90-17.85



NOTES:
1. FOR LEGEND, SEE SHEET 20
2. FOR TYPICAL SECTION, SEE SHEET 19
3. FOR EXISTING SIGNS, SEE SIGNING AND PAVEMENT MARKINGS SHEETS, 111 - 119

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MLV
CHECKED JML

MAINTENANCE OF TRAFFIC - PHASE 3
STA. 934+00 TO STA. 939+50

LOR-90-17.85

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
7	8	11	52	54	56	57	104	109	110										
																		ROADWAY	
LS														201	11000	LS		CLEARING AND GRUBBING	
				11,982										202	23001	11,982	SY	PAVEMENT REMOVED, AS PER PLAN	7
			12											202	35100	12	FT	PIPE REMOVED, 24" AND UNDER	
			1,225											202	38000	1,225	FT	GUARDRAIL REMOVED	
			2											202	58100	2	EACH	CATCH BASIN REMOVED	
	2,370						6,342							203	10000	8,712	CY	EXCAVATION	
							4,363							203	20000	4,363	CY	EMBANKMENT	
				26,163										204	10000	26,163	SY	SUBGRADE COMPACTION	
13														204	45000	13	HOUR	PROOF ROLLING	
			764											606	15050	764	FT	GUARDRAIL, TYPE MGS	
125														606	16001	125	FT	GUARDRAIL REBUILT, AS PER PLAN	7
			4											606	35000	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1	
			2											606	35100	2	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2	
			207											607	35001	207	FT	FENCE REMOVED AND REBUILT, AS PER PLAN	7
																		EROSION CONTROL	
					69									601	20000	69	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
					27									601	21050	27	SY	TIED CONCRETE BLOCK MAT, TYPE 1	
2														659	00100	2	EACH	SOIL ANALYSIS TEST	
1,237					493									659	00300	1,730	CY	TOPSOIL	
							11,146							659	10000	11,146	SY	SEEDING AND MULCHING	
557														659	14000	557	SY	REPAIR SEEDING AND MULCHING	
557														659	15000	557	SY	INTER-SEEDING	
1.5														659	20000	1.5	TON	COMMERCIAL FERTILIZER	
0.26														659	31000	0.26	ACRE	LIME	
62														659	35000	62	MGAL	WATER	
2,786														659	40000	2,786	MSF	MOWING	
					4,439									670	00500	4,439	SY	SLOPE EROSION PROTECTION	
						LS								832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
						LS								832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
						LS								832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
						74,000								832	30000	74,000	EACH	EROSION CONTROL	
																		DRAINAGE	
					14,229									605	11100	14,229	FT	6" SHALLOW PIPE UNDERDRAINS	
					1,868									605	13300	1,868	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
					13,476									605	14000	13,476	FT	6" BASE PIPE UNDERDRAINS	
					537									611	00510	537	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
					33									611	04600	33	FT	12" CONDUIT, TYPE C	
					8									611	06100	8	FT	15" CONDUIT, TYPE C	
					2									611	98410	2	EACH	CATCH BASIN, NO. 8	
					1									611	99574	1	EACH	MANHOLE, NO. 3	
					17									611	99710	17	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
				13,665										252	01500	13,665	FT	FULL DEPTH PAVEMENT SAWING	
		2,131												253	02000	2,131	CY	PAVEMENT REPAIR	
				17,439										254	01000	17,439	SY	PAVEMENT PLANING, ASPHALT CONCRETE	
		3,488												254	01600	3,488	SY	PATCHING PLANED SURFACE	
				7,147										302	46000	7,147	CY	ASPHALT CONCRETE BASE, PG64-22	
				4,361										304	20000	4,361	CY	AGGREGATE BASE	
				6,464										407	20000	6,464	GAL	NON-TRACKING TACK COAT	
				1,683										442	10000	1,683	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
				1,963										442	10100	1,963	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	
				490										617	10100	490	CY	COMPACTED AGGREGATE	
				14,410										618	40100	14,410	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
																		ELECTRICAL	
			2											625	31510	2	EACH	PULL BOX REMOVED	
																		TRAFFIC CONTROL	
									59					621	00100	59	EACH	RPM	
									50					621	54000	50	EACH	RAISED PAVEMENT MARKER REMOVED	
								54						630	02100	54	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
								63						630	03100	63	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
								36						630	06500	36	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9	

CALCULATED HB
CHECKED SNP

GENERAL SUMMARY

LOR-90-17.85

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	8	9	10	11	15													MAINTENANCE OF TRAFFIC	
					1,270									614	11630	1,270	FT	INCREASED BARRIER DELINEATION	
					4									614	12380	4	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
	2													614	12484	2	EACH	WORK ZONE INCREASED PENALTIES SIGN	
	15													614	12500	15	EACH	REPLACEMENT SIGN	
	50													614	12600	50	EACH	REPLACEMENT DRUM	
					1,740									614	12801	1,740	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	10
					19									614	13310	19	EACH	BARRIER REFLECTOR, TYPE 1, (ONE WAY)	
					142									614	13310	142	EACH	BARRIER REFLECTOR, TYPE 1, (TWO WAY)	
					19									614	13350	19	EACH	OBJECT MARKER, ONE WAY	
					142									614	13360	142	EACH	OBJECT MARKER, TWO WAY	
		18												614	18601	18	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	9
	LS													615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
					5,683									615	20000	5,683	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
	55													616	10000	55	MGAL	WATER	
					1,550									622	41100	1,550	FT	PORTABLE BARRIER, UNANCHORED	
					7,820									622	41110	7,820	FT	PORTABLE BARRIER, ANCHORED	
					9.54									642	00105	9.54	MILE	EDGE LINE, 6", TYPE 1, AS PER PLAN	11
					25,182									642	00401	25,182	FT	CHANNELIZING LINE, 8", TYPE 1, AS PER PLAN	11
				36										808	18700	36	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
																		INCIDENTALS	
														100	00300	LS		PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE	
																		LIABILITY INSURANCE	
														614	11000	LS		MAINTAINING TRAFFIC	
			1,000											614	11110	1,000	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
														619	16020	15	MNTH	FIELD OFFICE, TYPE C	
														623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
														624	10000	LS		MOBILIZATION	

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GENERAL SUMMARY

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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	202 GUARDRAIL REMOVED		606 GUARDRAIL TYPE MGS	606 BRIDGE TERMINAL ASSEMBLY, TYPE 1	606 BRIDGE TERMINAL ASSEMBLY, TYPE 2	625 PULL BOX REMOVED	202 CATCH BASIN REMOVED	202 PIPE REMOVED, 24" AND UNDER		607 FENCE REMOVED AND REBUILT, AS PER PLAN							
			FROM	TO		FT		FT	EACH	EACH	EACH	EACH	FT		FT							
63-65	R-1	IR-90	923+96.54	926+90.65	RT	295																
63-65	R-2	IR-90	924+84.23	927+46.86	LT	266																
63-65	G-1	IR-90	924+84.23	927+28.75	LT			248		1												
65	R-3	IR-90	925+04.23	926+67.76	RT	161																
65	G-2	IR-90	925+04.23	926+41.99	RT			112	1													
65	G-3	IR-90	925+19.06	926+79.39	RT			136	1													
65	R-4	IR-90	936+54.30		RT						1											
65	R-5	IR-90	928+27.38	929+35.00	RT	106																
65	R-6	IR-90	928+33.21		RT						1											
65	G-4	IR-90	928+46.04	929+35.00	RT			88		1												
65-67	R-7	IR-90	928+81.47	931+85.81	LT	307																
65	R-8	IR-90	928+96.18	929+85.00	LT	90																
65-67	G-5	IR-90	928+95.29	930+55.19	LT			137	1													
65	G-6	IR-90	929+18.79	929+85.00	LT			43	1													
65	R-9	IR-90	926+55.53	926+55.57	LT							1	8									
65	R-10	IR-90	929+17.26	929+17.27	RT							1	4									
65	F-1	IR-90	926+24.72	926+57.35	RT										60							
65	F-2	IR-90	927+30.24	927+51.31	LT										48							
65	F-3	IR-90	928+21.25	928+21.48	RT										57							
65	F-4	IR-90	929+02.13	929+16.39	LT										42							
TOTALS CARRIED TO GENERAL SUMMARY						1225		764	4	2	2	2	12		207							

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ROADWAY SUBSUMMARY

LOR-90-17.85