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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

HENRY COUNTY

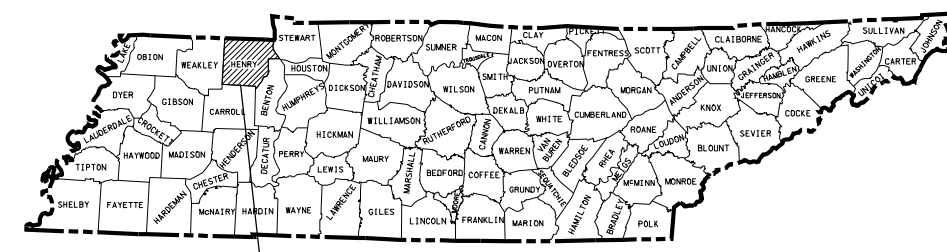
S.R. 356

FROM: L.M. 0.00 (JCT. S.R. 69/S.R. 54)
TO: L.M. 0.95 (JCT. S.R. 76)

RESURFACING

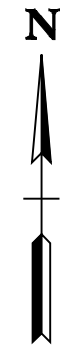
STATE HIGHWAY NO. 356 F.A.H.S. NO. N.A

TENN.	YEAR 2009	SHEET NO. 1
FED. AID PROJ. NO.		
STATE PROJ. NO.	40007-8204-14	



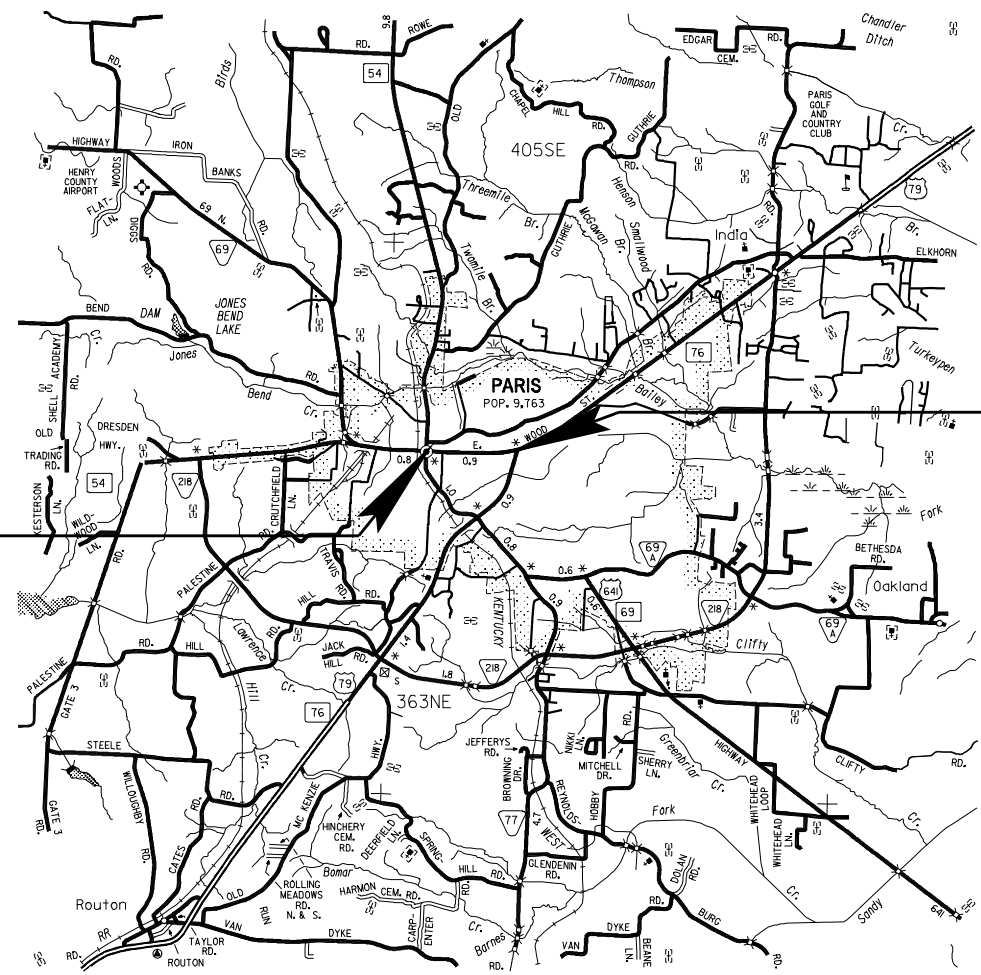
PROJECT SITE

UTILITY OWNERS	
UTILITY	UTILITY CONTACT
TELEPHONE	A T & T DON ROE (731) 423-5037 315 EAST COLLEGE ST. JACKSON, TN. 38301
WATER SEWER	PARIS BOARD OF PUBLIC UTILITIES CHARLES PERRY (731) 642-1322 117 EAST WASHINGTON, P.O. BOX 460 PARIS, TN. 38242



BEGIN PROJECT L.M. 0.00
(JCT. S.R. 69/S.R. 54)

END PROJECT L.M. 0.95
(JCT. S.R. 76)



SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

TDOT ROAD SP. SV. 2 MICHAEL I. RUSSELL, REG. 4

DESIGNER WILLIE COLEMAN CHECKED BY SCOTT PATE

P.E. NO. 98043-4283-04
PIN: 112146.00



PROJECT LENGTH 0.95 MILES

TRAFFIC DATA	
ADT (2008)	9442

APPROVED: *Paul D. Degees*
CHIEF ENGINEER

DATE: _____

APPROVED: *Scott F. Nield*
COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED:	
DIVISION ADMINISTRATOR	DATE

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	S.R. 356 QUANTITY	S.R. 54 QUANTITY
202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	100	
203-06	WATER	M.G.	1	
① 303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING D	TON	68	
307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	46	
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	4	2
② ③ ⑦ 411-02.10	ACS MIX(PG70-22) GRADING D	TON	3057	992
⑧ 415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	42078	13801
712-01	TRAFFIC CONTROL	LS	0.5	0.5
④ 712-06	SIGNS (CONSTRUCTION)	S.F.	611	387
⑤ 716-02.01	PLASTIC PAVEMENT MARKING (4" LINE)	L.M.	5	2
716-02.02	PLASTIC PAVEMENT MARKING (8" BARRIER LINE)	L.F.	475	
716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.	954	650
716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	50	20
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	600	300
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	27	12
716-02.11	PLASTIC PAVEMENT MARKING (6" DOTTED LINE)	L.F.	200	
716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	2	
716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	1	
716-04.10	PLASTIC PAVEMENT MARKING (HANDICAP SYMBOL)	EACH		1
⑥ 716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	5	2
716-05.08	PAINTED PAVEMENT MARKING (PARKING LINE)	L.F.	1190	1056
717-01	MOBILIZATION	LS	0.5	0.5
⑨ 730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	25	25
730-14.01	SHIELDED DETECTOR CABLE	L.F.	25	25
730-14.02	SAW SLOT	L.F.	162	50
730-14.03	LOOP WIRE	L.F.	426	100

FOOTNOTES

- ① FOR BREAKOUT ONLY.
- ② INCLUDES 100 TONS FOR SPOT LEVELING ON SR 356.
- ③ SEE SPECIAL PROVISION NO. 407G FOR FOR MATERIAL TRANSFER DEVICE.
- ④ QUANTITY INCLUDES
 - 2 ROAD WORK NEXT 1 MI. (G20-1)
 - 2 END ROAD WORK (G20-2A)
 - 2 UNEVEN LANES (W8-11)
 - 1 ROAD WORK 1 MILE (W20-1)
 - 22 ROAD WORK AHEAD FOR SR 356 (W20-1)
 - 10 ROAD WORK AHEAD FOR SR 54 (W20-1)
 - 2 ROAD WORK 1500 FT. (W20-1)
 - 2 ROAD WORK 1000 FT. (W20-1)
 - 2 ROAD WORK 500 FT. (W20-1)
 - 2 ONE LANE ROAD AHEAD (W20-4)
 - 2 FLAGGER AHEAD (W20-7a)
 - 2 FRESH OIL (W21-2)
- THIS CONSTRUCTION SIGNING IS TO BE AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.
- ⑤ FOR FINAL PAVEMENT MARKING ONLY.
- ⑥ FOR USE AS TEMPORARY LINE MARKINGS.
- ⑦ INCLUDES 77 TONS FOR CITY STREETS ON SR 54.
- ⑧ INCLUDES 2525 SQUARE YARDS FOR CITY STREETS ON SR 54.

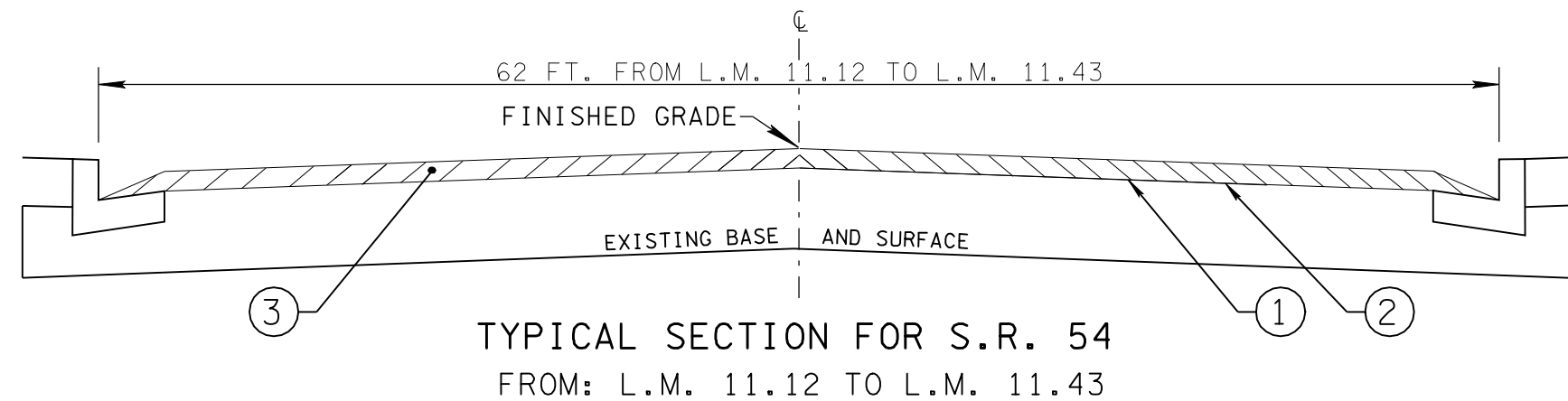
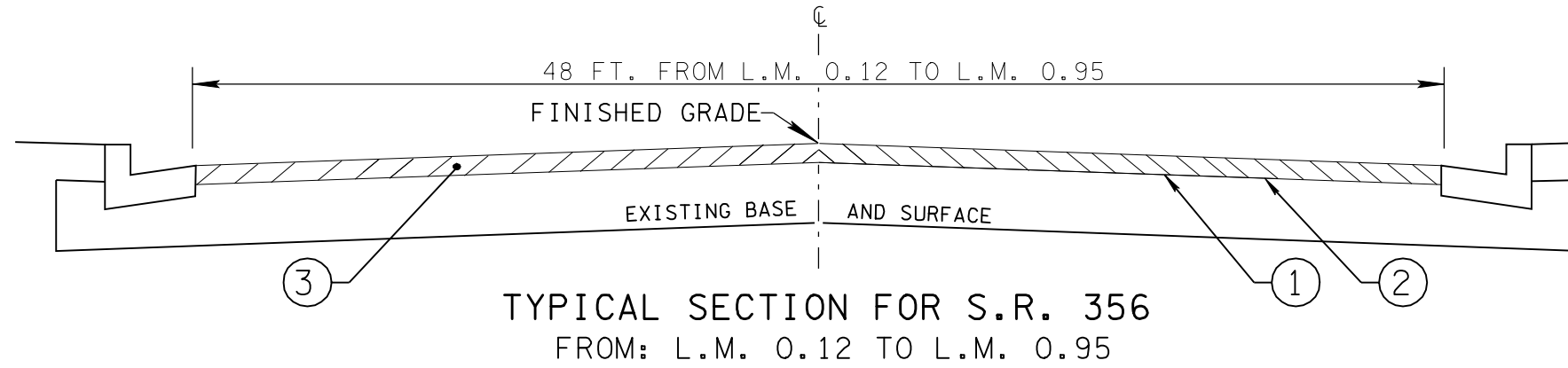
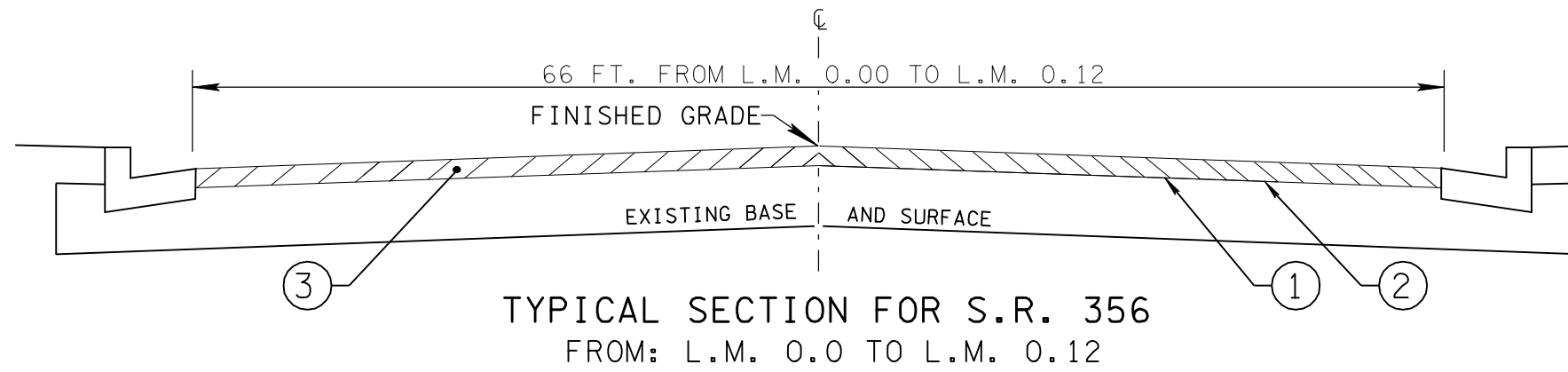
SIGNALIZATION TABULATION

INTERSECTION	LOOP WIRE 730-14.03 (LIN. FT.)	SAW SLOT 730-14.02 (LIN. FT.)	SHEILDED CABLE 730-14.01 (LIN. FT.)	CONDUIT (1") 730-12.01 (LIN. FT.)
S.R. 356 @ S.R. 76 (TYSON)	426	162	25	25
S.R. 54 @ RISON	100	50	25	25
TOTALS	526	212	50	50

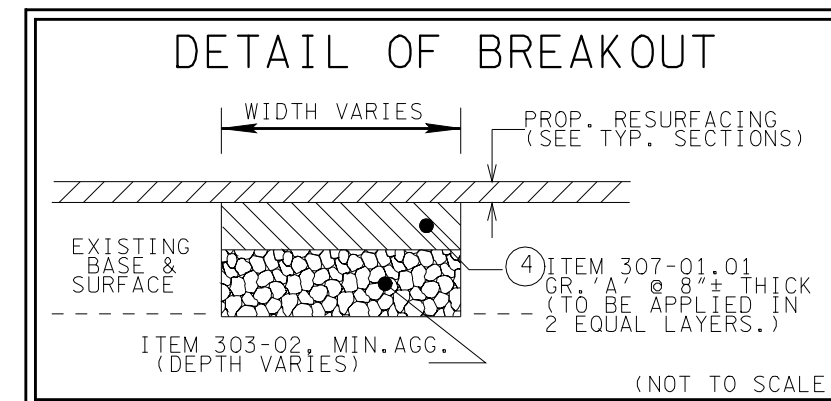
* CONTRACTOR NEEDS TO CONTACT THE TDOT TRAFFIC OFFICE FOR LOOP LAYOUT PLANS AND SPECIAL INSTRUCTIONS. 731-935-0186

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TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2009	40007-8204-14	3



PROPOSED PAVEMENT SCHEDULE	
①	TACK COAT (TC) ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (AT 0.02 GAL./S.Y.)
②	COLD PLANING @ 1.25"± THICK (APPROX. 131.25 LBS./S.Y.) ITEM 415-01.02 COLD PLANING BITUMINOUS PAVEMENT
③	ASPHALTIC CONCRETE SURFACE (ACS) @ 1.25"± THICK (APPROX. 132.50 LBS./S.Y.) ITEM 411-02.10 ACS MIX (PG70-22) GRADING "D"
④	BITUMINOUS BASE COURSE (BLACK BASE) @ 8"± THICK (APPROX. 920.0 LBS./S.Y.) ITEM 307-01.01 ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING "A" (THIS ITEM IS TO BE USED FOR BREAKOUT ONLY)



GENERAL NOTES

GRADING

ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE, OR LOCAL AGENCY.

UTILITIES

THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

MISCELLANEOUS

NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS BEFORE DARK HOURS. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01 PAINTED PAVEMENT MARKINGS (4" LINE), LIN. MI.

PAVEMENT - RESURFACING

ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.

IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

SIGNALIZATION

THE PROJECT ENGINEER SHALL NOTIFY THE LOCAL GOVERNMENTAL AGENCY RESPONSIBLE FOR TRAFFIC CONTROL MAINTENANCE AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION.

THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR SUPPLYING THE CONTRACTOR WITH AS BUILT SIGNAL PLANS AT THE PRE-CONSTRUCTION CONFERENCE. THESE PLANS WILL PROVIDE THE CONTRACTOR WITH THE DESIRED LOCATION FOR DETECTOR LOOP REPLACEMENT.

LOOPS REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL NOTES

ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY. WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC. UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS THIRTY (30) FEET SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL

DIFFERENCE IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC. CAUSED BY BASE, PAVING OR RESURFACING:

DIFFERENCE IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES.

- WARNING SIGNS, UNEVEN PAVEMENT (W8-11) AND/OR SHOULDER DROP-OFF (W8-9A), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
- DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
- DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
- WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN 7 WORKDAYS AFTER THE CONDITION IS CREATED.

SPECIAL NOTES

SURFACE IS TO BE CROWNED AS DIRECTED BY THE ENGINEER.

ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO ORIGINAL LOCATION. COST TO BE INCLUDED IN ITEM NO. 712-06.

IF THE CONTRACTOR ELECTS TO UTILIZE SIGN POST ANCHORS (STUBS) FOR SIGN ERECTION, THESE SHALL BE REMOVED WHEN THE SIGNS ARE REMOVED TO AVOID FUTURE DAMAGE TO MOWERS OR OTHER MACHINERY.

UNDER THE DIRECTION OF THE ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO APPLY PLASTIC MARKINGS IN THE PAVEMENT AREAS NOT SPECIFICALLY DETAILED IN THE PLANS. PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR ITEM NO. 716-02.01.

THE CONTRACTOR SHALL PROPERLY ADJUST ALL MANHOLES, ALL UTILITY VALVE COVERS AND LIKE STRUCTURES TO THE FINISHED GRADE OF THE PAVEMENT. IF EXTENSION RINGS ARE USED, THEY WILL BE SPOT WELDED A MINIMUM OF FIVE TIMES. COST OF ADJUSTMENT IS TO BE INCLUDED IN ITEM 411-02.10, ADJUSTMENT IS TO BE MADE PRIOR TO THE LAYING OF ITEM 411-02.10.

MATERIAL TRANSFER DEVICE SHALL BE USED FOR ALL MIXES.

THE BITUMINOUS MATERIAL DESIGNATED TO RESTORE THE COLD PLANING AREA WILL BE PLACED WITHIN 48 HOURS OF THE COMMENCEMENT OF COLD PLANING OPERATIONS. COLD PLANING OPERATIONS WILL BE LIMITED TO AN AREA EQUAL TO THAT WHICH CAN BE COVERED WITH BITUMINOUS MATERIAL WITHIN THE TIME LIMITS SPECIFIED. EVEN IF COLD PLANING OPERATIONS MUST BE SUSPENDED UNTIL PAVING CATCHES UP.

THE CONTRACTOR WILL BE REQUIRED TO KEEP ALL TRAFFIC LANES OPEN DURING NON WORK HOURS (6:00AM TO 7:00PM) AND NON WORK DAYS. THE CONTRACTOR WILL BE REQUIRED TO PERFORM WORK DURING NIGHT TIME HOURS (7:00PM TO 6:00AM) WITH NO WORK ON FRIDAY AND SATURDAY NIGHTS.

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RESURF.	2009	40007-8204-14	4