

LOCATION MAP
 LATITUDE: N40° 45' 44" LONGITUDE: W82° 48' 04"
 SCALE IN MILES
 0 1 2

PORTION TO BE IMPROVED
 INTERSTATE & DIVIDED HIGHWAY
 UNDIVIDED STATE & FEDERAL ROUTES
 OTHER ROADS

DESIGN DESIGNATION
 SEE SHEET 2 FOR ALL DESIGN DESIGNATIONS

DESIGN EXCEPTIONS
 NONE

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION
CRA-30-9.53
RIC-30-0.00
 CITY OF BUCYRUS
 CITY OF GALION
 VILLAGE OF CRESTLINE
 WHESTON TOWNSHIP
 JEFFERSON TOWNSHIP
 JACKSON TOWNSHIP
 SANDUSKY TOWNSHIP
 SPRINGFIELD TOWNSHIP
 CRAWFORD COUNTY
 RICHLAND COUNTY

INDEX OF SHEETS:

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ROADWAY ENGINEERS SEAL:

SIGNED: *DJV*
 DATE: 3/7/14

STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS
BP-3.1	04/20/12	MT-95.30 7/19/13
		MT-95.50 7/19/13
DM-4.3	07/19/13	MT-98.10 7/19/13
DM-4.4	07/20/12	MT-98.11 7/19/13
		MT-98.20 7/19/13
TC-41.20	10/18/13	MT-98.22 7/19/13
TC-42.20	10/18/13	MT-98.28 7/19/13
TC-52.10	10/18/13	MT-99.20 7/19/13
TC-52.20	01/17/14	MT-101.80 7/19/13
TC-65.10	01/17/14	MT-105.10 7/19/13
TC-65.11	01/17/14	
TC-71.10	01/17/14	
TC-72.20	07/20/12	
		SPECIAL PROVISIONS

UNDERGROUND UTILITIES
 CONTACT BOTH SERVICES
 CALL TWO WORKING DAYS
 BEFORE YOU DIG
 CALL 1-800-362-2764
 (TOLL FREE)
 OHIO UTILITIES PROTECTION SERVICE
 NON-MEMBERS
 MUST BE CALLED DIRECTLY
 OIL & GAS PRODUCERS PROTECTIVE
 SERVICE CALL: 1-800-925-0568



PLANS PREPARED BY:

APPROVED: *Dustin J. Vausden*
 DATE: 2-27-14 DIRECTOR, DEPARTMENT OF TRANSPORTATION

APPROVED: *Alvin C. Buel*
 DATE: 2-7-14 DISTRICT DEPUTY DIRECTOR

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

2013 SPECIFICATIONS
 THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

LIMITED ACCESS
 THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

EARTH DISTURBED AREAS
 PROJECT EARTH DISTURBED AREA: (MAINTENANCE PROJECT) N/A
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: (MAINTENANCE PROJECT) N/A
 NOTICE OF INTENT EARTH DISTURBED AREA: (MAINTENANCE PROJECT) N/A

PROJECT DESCRIPTION
 THIS PROJECT WILL INCLUDE PAVEMENT REPAIR, MAINLINE AND RAMP RESURFACING WITH ASPHALT CONCRETE, SHOULDER TREATMENT IN THE FORM OF CRACK SEALING, AND PAVEMENT MARKINGS.

DESIGN DESIGNATION (CRA-30-9.53 TO 15.32)
 CURRENT ADT (2014) ----- 13,000
 DESIGN YEAR ADT (2026) ----- 15,000
 DESIGN HOURLY VOLUME (2026) ----- 1,500
 DIRECTIONAL DISTRIBUTION ----- 0.53
 TRUCKS (24 HOUR B&C) ----- 0.36
 DESIGN SPEED ----- 65 MPH
 LEGAL SPEED ----- 70 MPH
 DESIGN FUNCTIONAL CLASSIFICATION:
 PRIORITY PRINCIPAL ARTERIAL
 NHS PROJECT ----- YES

DESIGN EXCEPTIONS
 NONE

DESIGN DESIGNATION (CRA-30-15.32 TO 16.27)
 CURRENT ADT (2014) ----- 13,000
 DESIGN YEAR ADT (2026) ----- 16,000
 DESIGN HOURLY VOLUME (2026) ----- 1,600
 DIRECTIONAL DISTRIBUTION ----- 0.53
 TRUCKS (24 HOUR B&C) ----- 0.34
 DESIGN SPEED ----- 65 MPH
 LEGAL SPEED ----- 70 MPH
 DESIGN FUNCTIONAL CLASSIFICATION:
 PRIORITY PRINCIPAL ARTERIAL
 NHS PROJECT ----- YES

DESIGN EXCEPTIONS
 NONE

DESIGN DESIGNATION (CRA-30-16.27 TO 18.65)
 CURRENT ADT (2014) ----- 13,000
 DESIGN YEAR ADT (2026) ----- 16,000
 DESIGN HOURLY VOLUME (2026) ----- 1,600
 DIRECTIONAL DISTRIBUTION ----- 0.53
 TRUCKS (24 HOUR B&C) ----- 0.34
 DESIGN SPEED ----- 65 MPH
 LEGAL SPEED ----- 70 MPH
 DESIGN FUNCTIONAL CLASSIFICATION:
 PRIORITY PRINCIPAL ARTERIAL
 NHS PROJECT ----- YES

DESIGN EXCEPTIONS
 NONE

DESIGN DESIGNATION (CRA-30-18.65 TO 21.19)
 CURRENT ADT (2014) ----- 16,000
 DESIGN YEAR ADT (2026) ----- 19,000
 DESIGN HOURLY VOLUME (2026) ----- 1,900
 DIRECTIONAL DISTRIBUTION ----- 0.53
 TRUCKS (24 HOUR B&C) ----- 0.24
 DESIGN SPEED ----- 65 MPH
 LEGAL SPEED ----- 70 MPH
 DESIGN FUNCTIONAL CLASSIFICATION:
 URBAN MINOR ARTERIAL
 NHS PROJECT ----- YES

DESIGN EXCEPTIONS
 NONE

DESIGN DESIGNATION (CRA-30-21.19 TO 22.21)
 CURRENT ADT (2014) ----- 16,000
 DESIGN YEAR ADT (2026) ----- 17,000
 DESIGN HOURLY VOLUME (2026) ----- 1,700
 DIRECTIONAL DISTRIBUTION ----- 0.53
 TRUCKS (24 HOUR B&C) ----- 0.31
 DESIGN SPEED ----- 65 MPH
 LEGAL SPEED ----- 70 MPH
 DESIGN FUNCTIONAL CLASSIFICATION:
 PRIORITY PRINCIPAL ARTERIAL
 NHS PROJECT ----- YES

DESIGN EXCEPTIONS
 NONE

DESIGN DESIGNATION (RIC-30-0.00 TO 3.93)
 CURRENT ADT (2014) ----- 18,000
 DESIGN YEAR ADT (2026) ----- 25,000
 DESIGN HOURLY VOLUME (2026) ----- 2,500
 DIRECTIONAL DISTRIBUTION ----- 0.53
 TRUCKS (24 HOUR B&C) ----- 0.29
 DESIGN SPEED ----- 65 MPH
 LEGAL SPEED ----- 70 MPH
 DESIGN FUNCTIONAL CLASSIFICATION:
 PRIORITY PRINCIPAL ARTERIAL
 NHS PROJECT ----- YES

DESIGN EXCEPTIONS
 NONE

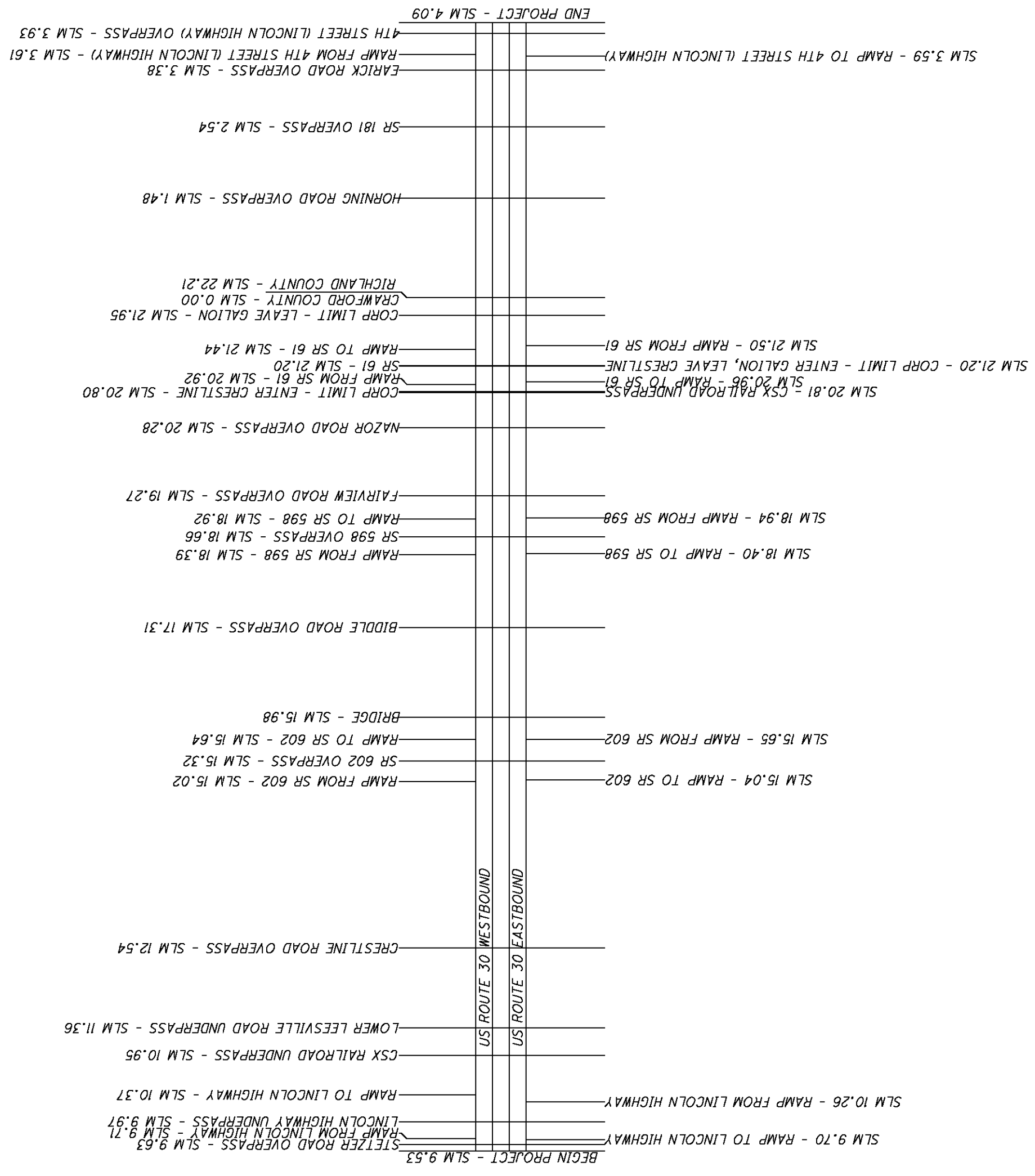
DESIGN DESIGNATION (RIC-30-3.93 TO 4.09)
 CURRENT ADT (2014) ----- 18,000
 DESIGN YEAR ADT (2026) ----- 19,000
 DESIGN HOURLY VOLUME (2026) ----- 1,700
 DIRECTIONAL DISTRIBUTION ----- 0.53
 TRUCKS (24 HOUR B&C) ----- 0.25
 DESIGN SPEED ----- 65 MPH
 LEGAL SPEED ----- 70 MPH
 DESIGN FUNCTIONAL CLASSIFICATION:
 FREEWAYS AND EXPRESSWAYS
 NHS PROJECT ----- YES

DESIGN EXCEPTIONS
 NONE

DESIGN EXCEPTIONS
 NONE

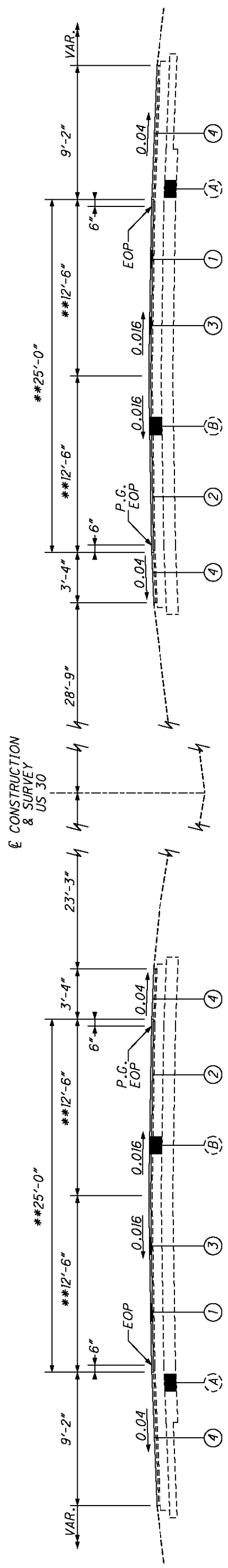
STRAIGHT LINE DIAGRAM

CALCULATED
KCK
CHECKED
ADB

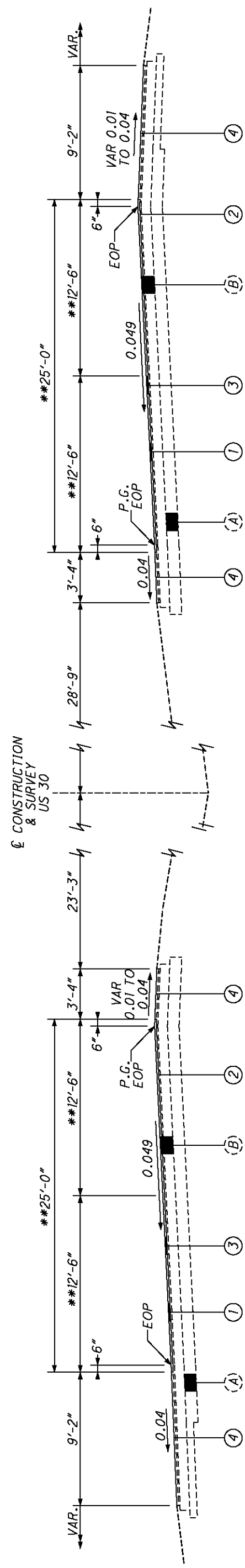


NOTE: ALL RAMP SLMs MEASURED AT THE END OF THE CORE AREA

TYPICAL SECTIONS



NORMAL SECTION
MAINLINE US 30

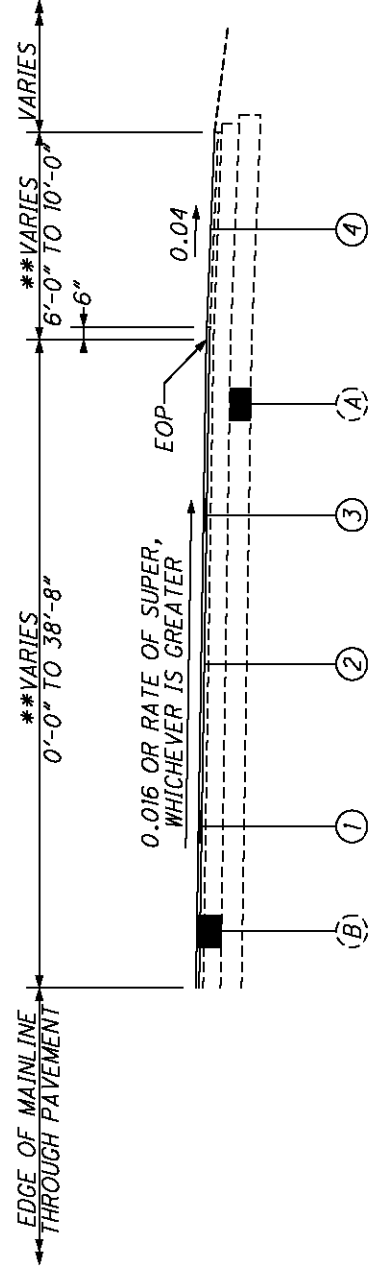


SUPERELEVATED SECTION
MAINLINE US 30

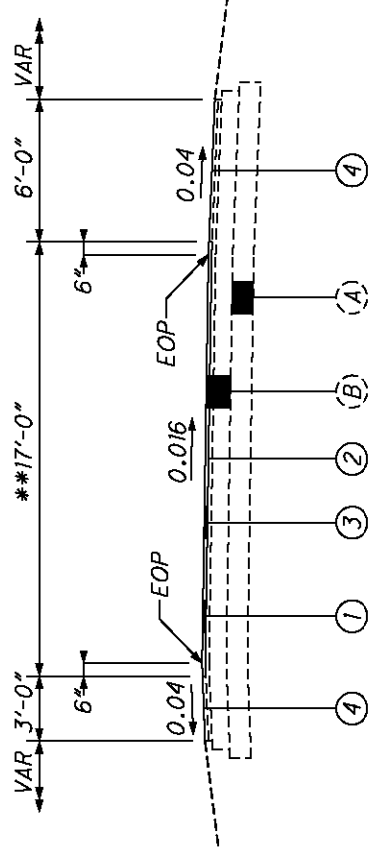
LEGEND
PROPOSED ITEMS:
 (1) - ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE (1.50')
 (2) - ITEM 407 TACK COAT
 (3) - ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446) (1.50')
 (4) - ITEM 423 CRACK SEAL, TYPE II OR TYPE III

EXISTING ITEMS:
 (A) - 9.75% BITUMINOUS AGGREGATE
 (B) - 11.25% ASPHALT CONCRETE

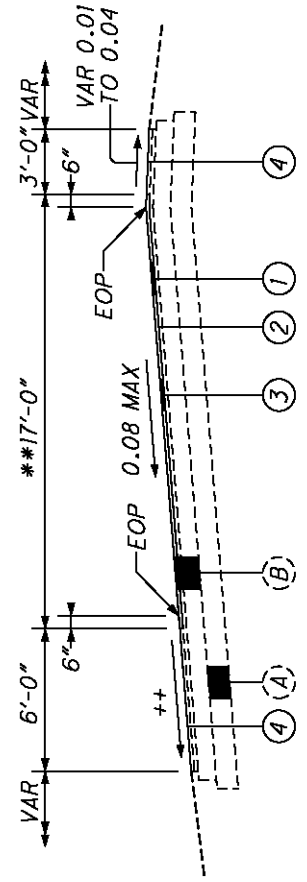
**NOTE: PAVEMENT WIDTHS ARE APPROXIMATE. CARE SHOULD BE TAKEN AS TO NOT DISTURB EXISTING RUMBLE STRIPES WHILE PERFORMING ITEM 254 PAVEMENT PLANING OR PLACING ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446). IT IS EXPECTED THAT THE RUMBLE STRIPES WILL BE AFFECTED WHILE PERFORMING ITEM 423 CRACK SEAL, TYPE II OR TYPE III.



NORMAL SPEED CHANGE LANE
IN DIRECTION OF TRAVEL
APPLIES TO ALL INTERCHANGE, EXIT, AND ENTRANCE RAMP

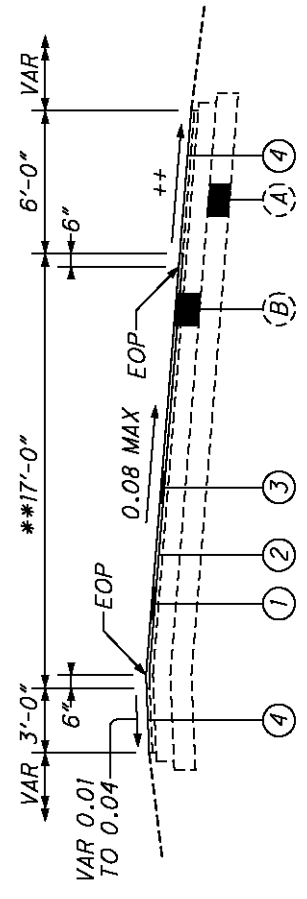


NORMAL SECTION - RAMP
IN DIRECTION OF TRAVEL



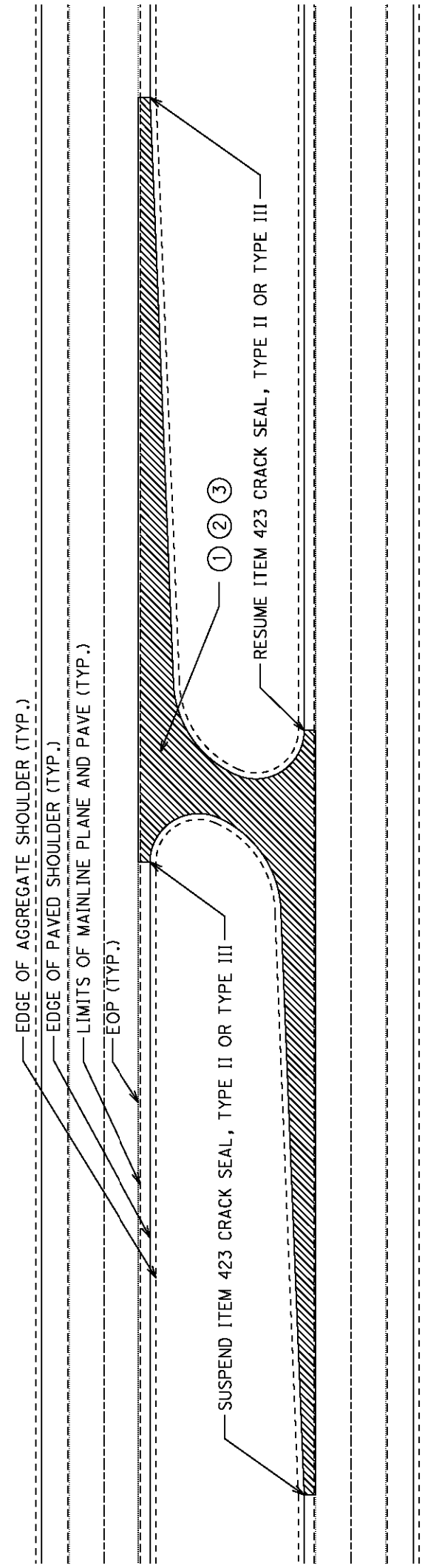
++ - VARIES: 0.04 OR RATE OF
SUPER, WHICHEVER IS GREATER

SUPERELEVATED SECTION - RAMP
IN DIRECTION OF TRAVEL



++ - VARIES: 0.04 OR RATE OF
SUPER, WHICHEVER IS GREATER

SUPERELEVATED SECTION - RAMP
IN DIRECTION OF TRAVEL



MEDIAN CROSS OVER DETAIL
APPLICABLE TO ALL MEDIAN CROSSOVERS
CRA SLMs: 10.71, 11.56, 12.95, 14.56, 16.09,
17.86, 19.34, 20.47, 21.94; RIC SLM 3.14

NOTE:
SEE PREVIOUS SHEET FOR LEGEND.
**SEE PREVIOUS SHEET FOR NOTE REGARDING PAVEMENT WIDTHS.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

CABLE
WARNER CABLE
DAVE ROUSH
1575 LEXINGTON AVE
MANSFIELD, OH 44901
419.756.6091 X 5136

SEWER
CRAWFORD COUNTY SEWER DIST.
MARK BAKER
815 WHETSTONE STREET
BUCYRUS, OH 44820
419.562.7731

CITY

CITY OF GALION
FRONTIER COMMUNICATIONS
JIM SAUBER
1934 S.R. 511 SOUTH
GALION, OH 44805
419.468.2818

CITY OF MANSFIELD
BOB BIANCHI
30 NORTH DIAMOND STREET
MANSFIELD, OH 44092
419.755.9702

ELECTRIC
OHIO EDISON COMPANY
RICH HAAS
1717 ASHLAND ROAD
MANSFIELD, OH 44095
419.521.6275

AMERICAN ELECTRIC POWER
PAM MASON
2622 SOUTH S.R. 100
TIFFIN, OH 44883
419.443.4626

GAS
COLUMBIA GAS OF OHIO
JARROD SWINEHART
1021 NORTH MAIN STREET
MANSFIELD, OH 44093
419.528.1137

COLUMBIA GAS TRANSMISSION
JACK ROHRBAUGH
PO BOX 85
LAKEVILLE, OH 44638
419.827.2620

SEWER
CITY OF BUCYRUS
DENNIS FLECHTNER
500 SOUTH SANDUSKY AVE.
BUCYRUS, OH 44820
419.562.5341

THE FOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

PROFILE AND ALIGNMENT

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. (SEE EXISTING PLANS NOTE FOR INFORMATION REGARDING THE ORIGINAL ALIGNMENT AND PROFILE). THE PROPOSED ASPHALT CONCRETE OVERLAY SHALL HAVE A UNIFORM THICKNESS OF 1.50 INCHES AS SHOWN ON THE TYPICAL SECTIONS.

EXISTING PLANS

THREE EXISTING PLANS ENTITLED CRA-30-15.865, CRA-30-24.00 AND CRA/RIC-30-33.500/0.000 MAY BE INSPECTED IN THE ODOT DISTRICT 3 OFFICE IN ASHLAND.

PAVING OVER STRUCTURES

STRUCTURES WITH A CONCRETE WEARING SURFACE SHALL NOT BE PLANNED, PAVED, OR CRACK SEALED WITH THIS PROJECT. STRUCTURES WITH AN ASPHALT CONCRETE WEARING SURFACE MAY BE PLANNED, PAVED, AND CRACK SEALED NORMALLY WITH THE REST OF THE MAINLINE PAVEMENT.

CONSTRUCTION NOTIFICATION

THE CONTRACTOR SHALL ADVISE THE PROJECT ENGINEER A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER (PIO) BY FAX AT (614) 887-4305 OR EMAIL AT DO3-PIO@DOT.STATE.OH.US

DISTRICT PERMIT SECTION BY FAX AT (419) 281-5925 OR EMAIL AT ERNIE-RODGE@DOT.STATE.OH.US

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY FAX AT (614) 728-4099 OR EMAIL AT HAULING.PERMITS@DOT.STATE.OH.US

THE PIO WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE MENTIONED ITEMS, VIA MEDIA SOURCES.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ROAD WEATHER INFORMATION SYSTEM

THERE IS A ROAD WEATHER INFORMATION SYSTEM (RWIS) WITHIN THE PROJECT LIMITS ON US 30 AS SLM 16.50. SPECIAL CARE SHOULD BE TAKEN IN THE AREA OF THE RWIS AND ANY OF ITS ACCOMPANYING COMPONENTS. SHOULD ANY COMPONENT OF THE RWIS BE DAMAGED IN THE PROCESS OF COMPLETING THIS PROJECT, IT SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448), AS PER PLAN

THIS ITEM SHALL BE USED FOR CORRECTION OF CROWN, PROFILE AND ANY OTHER IRREGULARITIES INCLUDING, BUT NOT LIMITED TO, APPROACH SLAB CORRECTIONS AT THE FOLLOWING LOCATIONS IN CRAWFORD COUNTY: WESTBOUND US 30 20.76, WEST APPROACH SLAB; EASTBOUND US 30 11.21, WEST APPROACH SLAB; WESTBOUND US 30 10.90, BOTH APPROACH SLABS; EASTBOUND US 30 10.90, WEST APPROACH SLAB; WESTBOUND US 30 09.92, BOTH APPROACH SLABS.

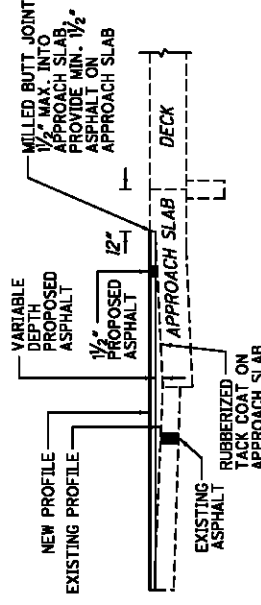
ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (W8-T-36) SHALL BE ERCTED ON EACH SIDE OF TRANSVERSE JOINTS LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN. THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:

MIX DESIGN: FOR N898 USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. USE A PG 64-22 BINDER.
MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 30 PERCENT.
APPLY 703.05 FOR COARSE AND FINE AGGREGATE EXCEPT GRADATION FOR FINE AGGREGATE DOES NOT APPLY.
QUALITY CONTROL: DO NOT PERFORM Nmax IN QUALITY CONTROL TESTING. DO NOT TAKE EXTRA ASPHALT BINDER SAMPLES AS OUTLINED IN CMS 442.05.

QUANTITIES FOR ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448), AS PER PLAN SHALL BE DETERMINED BY THE ENGINEER AFTER THE CONTRACTOR PERFORMS A PROFILE SURVEY OF THE ABOVE MENTIONED LOCATIONS. QUANTITIES SHALL BE SUFFICIENT TO CORRECT ANY IRREGULARITIES. ANY SUCH SURVEY SHALL BE INCLUDED WITH THE UNIT BID PRICE FOR ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448), AS PER PLAN.

AN ESTIMATED QUANTITY OF 200 CU YDS IS INCLUDED IN THE GENERAL SUMMARY. THIS QUANTITY IS SUBJECT TO CHANGE PER THE ENGINEER.



CONSTRUCTION EQUIPMENT MEDIAN CROSSING

CONSTRUCTION EQUIPMENT SHALL CROSS THE MEDIAN ONLY AT THE EXISTING INTERSECTIONS AND U-TURN CROSSOVERS AND AT OTHER ADDITIONAL LOCATIONS APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS EXPENSE FOR THE RESTORATION OF THE ADDITIONAL EQUIPMENT CROSSINGS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING PRIOR TO HIS WORK OPERATIONS.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR

ITEM 253 - PAVEMENT REPAIR

THESE ITEMS OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT OR PAVED BERM WHICH MAY BE ASPHALT, BRICK, CONCRETE, OR A COMBINATION OF EACH, IN AREAS OF EXISTING PAVEMENT FAILURE.

PAVEMENT REPAIR SHALL BE PERFORMED AFTER PAVEMENT PLANING AND BEFORE PLACEMENT OF ITEM 442. THE DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT WITH A MAXIMUM DEPTH OF 12", BASED ON THE PAVEMENT DESIGN AND AN AVERAGE DEPTH OF 4" FOR ESTIMATING PURPOSES. THE CONTRACTOR SHALL BE CAPABLE OF PERFORMING PAVEMENT REPAIRS 2 FEET WIDE.

REPLACEMENT MATERIAL SHALL BE ITEM 301, ITEM 448 TYPE 2, OR ITEM 442 19MM MATERIAL AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE. ITEM 301 ASPHALT CONCRETE, PG64-22 CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 3" AND 12" WITH A MAXIMUM PAVEMENT LIFT OF 6". ITEM 448 TYPE 2 OR ITEM 442 19MM CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 1.5" AND 5" WITH A MAXIMUM PAVEMENT LIFT OF 3". THE CONTRACTOR HAS THE OPTION OF USING EITHER ITEM 301, ITEM 448 TYPE 2, OR ITEM 442 19MM MATERIAL WHEN THE PAVEMENT REPAIR IS BETWEEN 3" AND 5" DEEP. ITEM 448 TYPE 2 OR ITEM 442 19MM MATERIAL SHALL BE PG64-22 FOR MEDIUM MIX DESIGN PAVEMENTS AND PG64-28 FOR HEAVY MIX DESIGN PAVEMENTS.

ALL FULL DEPTH PAVEMENT REPAIRS SHOULD BE COMPLETED IN THE SAME WORKING DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE REPAIR BY THE END OF THE WORKING DAY, THE EXCAVATION SHALL BE BACKFILLED.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. FOR PAYMENT PURPOSES ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR IS TO BE A MAXIMUM OF 4" DEEP AND ITEM 253 PAVEMENT REPAIR IS FOR DEPTHS GREATER THAN 4". PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR OR ITEM 253 - PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

01/NMS/PV:
ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR 400 CU. YD.
ITEM 253 - PAVEMENT REPAIR 175 CU. YD.

ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE

AS PER 407.06, THE APPLICATION RATES SHALL BE 0.08 GAL. PER SQ. YD. PRIOR TO THE INTERMEDIATE COURSE AND SHALL BE 0.04 GAL PER SQ. YD. PRIOR TO THE SURFACE COURSE FOR ESTIMATING PURPOSES ONLY. THE RATE OF APPLICATION SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. COMPLETE PAVEMENT SURFACE COVERAGE SHALL BE REQUIRED. AREAS OF TACK STRIPPED BY CONSTRUCTION EQUIPMENT OR TRAFFIC SHALL BE RE-COATED PRIOR TO PLACING ASPHALT CONCRETE. ALL COSTS AS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER GALLON FOR ITEM 407 - TACK COAT AND ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE.

QUANTITIES FOR ITEM 407 TACK COAT FOR INTERMEDIATE COURSE WILL BE DETERMINED BY THE ENGINEER AND BE SUFFICIENT AS TO TREAT ALL AREAS WHERE ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448), AS PER PLAN IS TO BE INSTALLED.

AN ESTIMATED QUANTITY FOR ITEM 407 TACK COAT FOR INTERMEDIATE COURSE OF 190 GALLONS IS CARRIED TO THE GENERAL SUMMARY. THIS QUANTITY IS SUBJECT TO CHANGE PER THE ENGINEER.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE

THE INTENT OF THE PLANING IS TO MILL 1 1/2 INCHES.

SPECIAL ATTENTION SHALL BE GIVEN TO SUPERELEVATED CURVES. THE SUPERELEVATION SHALL BE MAINTAINED.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL CATCH BASINS AND INLETS.

THE PROGRESSION OF THE PLANING SHALL PROCEED IN SUCH A MANNER THAT NORMAL TRAFFIC WILL NOT BE REQUIRED TO RUN OVER THE PLANED ROADWAY SURFACE MORE THAN FOURTEEN (14) CALENDAR DAYS. FOR EACH CALENDAR DAY BEYOND THE 14 DAYS THAT TRAFFIC REMAINS EXPOSED TO THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE OF \$2000 PER DAY.

DRAINAGE SLOTS SHALL BE CUT INTO THE SHOULDER(S) AT THE LOW POINT OF EACH PLANED SECTION TO PREVENT TRAPPED WATER PUDDLES, AND SHALL BE REFILLED DURING RESURFACING. CUTTING AND FILLING DRAINAGE SLOTS SHALL BE INCLUDED IN PAYMENT WITH ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT PLANING, ASPHALT CONCRETE. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD OF ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE.

ITEM 614 - MAINTAINING TRAFFIC: GENERAL

AT LEAST ONE 11-FOOT LANE IN EACH DIRECTION SHALL REMAIN OPEN AT ALL TIMES. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, PLAN DETAILS, STANDARD DRAWINGS, AND AS OUTLINED IN THE CONSTRUCTION AND MAINTENANCE SECTION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION WITH THE LATEST REVISIONS. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED ON THIS PLAN.

THE FOLLOWING REQUIREMENTS SHALL ALSO APPLY:
THE CONTRACTOR SHALL SUBMIT, IN WRITING, A SCHEDULE OF OPERATIONS TO THE ENGINEER AND RECEIVE APPROVAL BEFORE WORK IS STARTED ON THE PROJECT. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL COORDINATE THE MAINTENANCE OF TRAFFIC OPERATIONS WITH THE LOCAL STATE HIGHWAY PATROL.

ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERRECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHEN THEY ARE NOT APPLICABLE, WITH THE APPROVAL OF THE ENGINEER.

IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE OMTUCD, AND SUCH 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 MAINTENANCE OF TRAFFIC SIGNS ARE PAID FOR UNDER ITEM 614 - MAINTAINING TRAFFIC.

ITEM 614 - MAINTAINING TRAFFIC: HOLIDAYS

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

CHRISTMAS	NEW YEARS
MEMORIAL DAY	FOURTH OF JULY
LABOR 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 THE WEEK	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 12:00N MONDAY
MONDAY	12:00N FRIDAY THROUGH 12:00N TUESDAY
TUESDAY	12:00N MONDAY THROUGH 12:00N WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 12:00N THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 12:00N MONDAY
FRIDAY	12:00N THURSDAY THROUGH 12:00N MONDAY
SATURDAY	12:00N FRIDAY THROUGH 12:00N MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO CONSTRUCT A TEMPORARY ASPHALT WEDGE FROM THE EXISTING PAVEMENT TO THE PLANNED SURFACE AT BUTT JOINTS AND OTHER LOCATIONS THAT RESULT IN A DROP-OFF. THIS QUANTITY SHALL ALSO BE USED AT PLANNED SURFACES WHERE A TEMPORARY ASPHALT WEDGE IS NEEDED AROUND CASTINGS, BEFORE RESURFACING OF THE PAVEMENT. THE TEMPORARY WEDGE SHALL BE REMOVED AND THE COST SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
01/ANHS/PV 75 CU YD

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 25 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

01/ANHS/PV

25 EACH

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMTUCD), A UNIFORMED LAW ENFORCEMENT OFFICER AND OFFICIAL PATROL CAR WITH MOUNTED EMERGENCY FLASHING LIGHTS SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS AS DIRECTED BY THE ENGINEER:

FOR LANE CLOSURES DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION.

LAW ENFORCEMENT OFFICERS (LEOS) SHOULD NOT BE USED WHERE THE OMTUCD INTENDS THAT FLAGGERS BE USED. THE LEOS ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL PROVIDE AS REQUIRED BY A TWO WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES AND PROVIDE 72 HOURS ADVANCE NOTICE AS REQUIRED BY THE HIGHWAY PATROL LISTED BELOW:

BUCYRUS PATROL POST
3665 STATE ROUTE 4
BUCYRUS, OH 44820
PHONE: 419-562-2015

OHIO STATE HIGHWAY PATROL
MANSFIELD PATROL POST
2221 SOUTH MAIN STREET
MANSFIELD, OH 44807
PHONE: 419-756-2222

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
01/ANHS/PV 60 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF THE CONTRACTOR WISHES TO UTILIZE LEOS FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE.

SEQUENCE OF CONSTRUCTION

THE INTENT IS TO MINIMIZE TRAFFIC BACKUPS, PREVENT TRAFFIC FROM TRAVELLING ON THE PLANNED SURFACE WHEN POSSIBLE AND PERFORM THE WORK AS QUICKLY AS POSSIBLE. AT NO TIME SHOULD TRAFFIC BE PERMITTED TO TRAVEL ON THE PLANNED SURFACE EXCEPT WHERE NECESSARY TO MAINTAIN ACCESS TO THE RAMPS. THIS AREA SHALL BE DETERMINED BY THE ENGINEER.

PHASE 1:

1. CLOSE THE RIGHT LANE AND DIVERT TRAFFIC INTO THE PASSING LANE AND MEDIAN SIDE SHOULDER PER REQUIREMENTS OF STANDARD DRAWING MT-95.30. BEGIN WORK ON THE DRIVING LANE AND RIGHT SHOULDER.
2. PERFORM PAVEMENT PLANING ON THE RIGHT SHOULDER AND DRIVING LANE. THE RIGHT HALF OF THE RAMPS MAY BE PLANED AT THE SAME TIME. NOTE THAT THE INTENT IS TO MAINTAIN ACCESS TO THE RAMPS AT ALL TIMES.
3. PERFORM PAVEMENT REPAIRS ON THE PLANNED SURFACES.
4. PLACE THE TACK COAT FOR INTERMEDIATE COURSE AND ASPHALT CONCRETE INTERMEDIATE COURSE AT ALL APPLICABLE LOCATIONS LISTED IN THE GENERAL NOTES THAT LIE WITHIN THE PHASE 1 WORKZONE.
5. PLACE THE TACK COAT AND ASPHALT CONCRETE SURFACE COURSE.
6. PLACE ALL APPLICABLE PERMANENT PAVEMENT MARKINGS.

PHASE 2:

1. SHIFT TRAFFIC FROM THE PASSING LANE AND MEDIAN SHOULDER TO THE DRIVING LANE AND RIGHT SHOULDER.
2. PERFORM PAVEMENT PLANING ON THE MEDIAN SHOULDER AND PASSING LANE. THE LEFT HALF OF THE RAMPS MAY BE PLANED AT THE SAME TIME. NOTE THAT THE INTENT IS TO MAINTAIN ACCESS TO THE RAMPS AT ALL TIMES.
3. REPEAT STEPS 4-7 FROM PHASE 1 ON THE NEWLY PLANED SECTION.
4. PLACE ANY REMAINING PAVEMENT MARKINGS AND RPMs.

ITEM 614 - WORK ZONE MARKING SIGN

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR TEMPORARY WORK ZONE MARKING SIGNS PER THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS, 614.04.

01/ANHS/PV
WORK ZONE MARKING SIGN: (W8-H12A-36) NO EDGE LINE = 18 EACH
TOTAL = 18 EACH

BUTT JOINTS

BUTT JOINTS SHALL NOT BE CUT AND LEFT OPEN TO TRAFFIC. THEY SHALL BE FILLED IN WITH A TEMPORARY ASPHALT CONCRETE WEDGE USING ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

CONSTRUCTION "BUMP" (W8-1-36) AND "ADVISORY SPEED" (W13-1-24) SIGNS SHALL BE ERRECTED AND MAINTAINED DURING THE PERIOD THE BUTT JOINT IS LEFT OPEN. THESE SIGNS SHALL BE PAID FOR UNDER THE LUMP SUM ITEM FOR ITEM 614 MAINTAINING TRAFFIC.

WORK OPERATIONS AND EQUIPMENT STORAGE

IN ADDITION TO THE REQUIREMENTS OF SECTION 614 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE FOLLOWING SHALL APPLY:

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAVEL WHERE PRACTICAL. A FLAGGER SHALL BE USED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM.

THE CONTRACTOR SHALL ARRANGE CONSTRUCTION OPERATIONS SO AS TO PREVENT ANY INTERFERENCE TO THE CONTINUOUS FLOW OF TRAFFIC. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO THE CLOSED LANES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY A MIN. OF 6 FT BEHIND OR 30 FT FROM THE NEAREST EDGE OF PAVEMENT WHEN VARIOUS OPERATIONS ARE SCHEDULED TO CONTINUE THE NEXT WORKDAY. ADEQUATE BARRICADES AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE WHEN NO LONGER NEEDED A CHANGEABLE MESSAGE SIGN ON SITE, FOR THE DURATION OF THE PROJECT. THE SIGN SHALL BE OF A TYPE, SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 650 FT., AND 475 FT., RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHALL BE DELINEATED ON A PERMANENT BASIS BY AFFIXING CONSPICUITY TAPE CONFORMING TO CMS 614.03, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

THE PROBABLE PCMS LOCATIONS WILL BE DETERMINED BY THE ENGINEER PRIOR TO BEGINNING WORK ON THIS PROJECT. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS, WHEN NOT IN USE. THE PCMS SHALL BE TURNED OFF, ADDITIONALLY, WHEN NOT IN USE, FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 4 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PREPROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PREPROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL, IN ACTIVE CELLULAR PHONE AREAS, ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE WILL BE DEDUCTED FROM MONEYS DUE OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN (CONT'D)

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK. THE CONTRACTOR SHALL ONLY BE PAID FOR PCMS UNITS WHEN THEY ARE IN OPERATION ON THE PROJECT AS SPECIFIED IN THE PLANS OR BY THE ENGINEER.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
01/NHS/PV
8 SIGN-MONTHS

ITEM 614 - WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS MAY BE CERTIFIED FROM ONE OF THE FOLLOWING ORGANIZATIONS:

1. AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (ATSSA), PHONE NUMBER 1-800-272-8772, CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS).
2. NATIONAL HIGHWAY INSTITUTE, DESIGN AND OPERATION OF WORK ZONE TRAFFIC CONTROL, PHONE NUMBER 1-703-235-0528.
3. THE OHIO CONTRACTORS ASSOCIATION, TRAFFIC CONTROL SUPERVISOR (OCA/TCS) WORK ZONE CLASS, ONLY IF TAKEN AFTER MAY 5, 2004, PHONE NUMBER 1-614-599-7915.
4. OHIO LABORERS TRAINING, TRAFFIC CONTROL SUPERVISORS CLASS, PHONE NUMBER 1-740-599-7915.

A COPY OF EACH WTS'S CERTIFICATION AND 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7), THE CONTRACTOR MAY DESIGNATE AN ALTERNATE WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY. EACH WTS SHALL HAVE A CURRENT WTS CERTIFICATION, WITH AN EXPIRATION DATE NO MORE THAN 5 YEARS FROM THE DATE OF ISSUE, FROM ANY OF THE APPROVED ORGANIZATIONS.

THE WTS POSITION HAS THE RESPONSIBILITY OF MONITORING TRAFFIC CONTROL DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS, AND BE ABLE TO BE ON SITE FOR ALL EMERGENCY TRAFFIC CONTROL NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF AND BE PREPARED TO EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TRAFFIC CONTROL DEVICES.
2. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TRAFFIC CONTROL MANAGEMENT IS DISCUSSED.
3. BE AVAILABLE FOR MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST OR WITHIN 36 HOURS.
4. BE AWARE OF, AND COORDINATE IF NECESSARY, ALL TRAFFIC CONTROL OPERATIONS, INCLUDING THOSE OF SUBCONTRACTORS AND SUPPLIERS.
5. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). A WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEOS WHILE THEY ARE ON THE PROJECT.
6. COORDINATE MEETINGS WITH ODOT PERSONNEL, LEOS AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS WORK ZONE TRAFFIC CONTROL.
7. ENSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS FOR SIGNS, BARRICADES, TEMPORARY CONCRETE BARRIER, PAVEMENT MARKINGS, PORTABLE MESSAGE SIGNS, AND OTHER TRAFFIC CONTROL DEVICES ON A DAILY BASIS; AND FACILITATE ANY CORRECTIVE ACTION NECESSARY.
8. NOTIFY THE CONTRACTOR OF THE NEED FOR CLEANING AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES, INCLUDING THE COVERING AND REMOVAL OF INAPPLICABLE SIGNS.
9. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF THE TRAFFIC CONTROL DEVICES AND/OR TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, A WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS SHALL BE PERFORMED. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:

- A. INITIAL TRAFFIC CONTROL SETUP (DAY AND NIGHT REVIEW).
- B. DAILY TRAFFIC CONTROL SETUP AND REMOVAL.
- C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TRAFFIC CONTROL SETUP.
- D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA.
- E. REMOVAL OF TRAFFIC CONTROL DEVICES AT THE END OF A PHASE OR PROJECT.
- F. ALL OTHER EMERGENCY TRAFFIC CONTROL NEEDS.

ITEM 614 - WORKSITE TRAFFIC SUPERVISOR (CONT'D)

10. COMPLETE THE DEPARTMENT APPROVED LONG TERM INSPECTION FORM (CA-D-8) AFTER EACH INSPECTION AS REQUIRED IN # 9 AND SUBMIT IT TO THE ENGINEER THE FOLLOWING WORK DAY. THESE REPORTS SHALL INCLUDE A CHECKLIST OF ALL TRAFFIC CONTROL MAINTENANCE ITEMS TO BE REVIEWED. A COPY OF THE FORM WILL BE PROVIDED AT THE PRECONSTRUCTION CONFERENCE. ANY DEFICIENCIES OBSERVED SHALL BE NOTED, ALONG WITH RECOMMENDED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE COMPLETED. A COPY OF THIS DOCUMENT CAN BE FOUND IN THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION INSPECTION FORMS MANUAL DATED 10/15/06 OR CURRENT REVISION.

11. VERIFY THAT ALL FLAGGING OPERATIONS ARE BEING CONDUCTED PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

12. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND APPLICABLE STANDARDS AND SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

THE DEPARTMENT WILL NOT PAY THE UNIT PRICE BID FOR THE WTS FOR ANY DAY ON WHICH THE CONTRACTOR FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. SHOULD THE CONTRACTOR'S FAILURE TO PERFORM ANY OF THE DUTIES DESCRIBED ABOVE RESULT IN A MAINTENANCE OF TRAFFIC SAFETY ISSUE, THE DEPARTMENT WILL DEDUCT THE PROBATED DAILY AMOUNT FOR ITEM 614 MAINTENANCE OF TRAFFIC FROM THE CONTRACTOR'S NEXT SCHEDULED ESTIMATE.

IF THREE OR MORE FAILURES TO PERFORM THE DUTIES SET FORTH ABOVE OCCUR, THE WTS SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR THE WORKSITE TRAFFIC SUPERVISOR:

ITEM 614 - WORKSITE TRAFFIC SUPERVISOR
01/NHS/PV
4 MONTHS

LIMITATION ON WORK ZONE LENGTH

DUE TO THE LENGTH OF THIS PROJECT, LIMITATIONS ON WORK ZONE LENGTH SHALL BE IMPLEMENTED SO AS TO NOT CREATE CONGESTION AND UN-NEEDED STRAIN ON TRAFFIC AND TRAFFIC FACILITIES. MAXIMUM WORK ZONE LENGTH AND MINIMUM SPACING BETWEEN WORK ZONES SHOULD BE FOUR (4) MILES AND TWO (2) MILES RESPECTIVELY, SUBJECT TO MODIFICATION BY THE ENGINEER.

