

CONTRACT 39-13-01 SHEET 7 OF 253

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. PROVISIONS OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES AND THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS SHALL, IN ALL CASES, BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING CONTRACTION JOINTS SHALL BE CONSTRUCTED AS PER STANDARD CONSTRUCTION DRAWING BP-2.2, EXCEPT THAT THE SPACING SHALL BE 14 FOOT MAXIMUM.

ITEM SP604 - CATCH BASIN, NO. CB-1

EXISTING TOP OF GRATE ELEVATIONS FOR ALL STORM STRUCTURES SHALL BE FIELD MEASURED AND RECORDED BY THE CONTRACTOR PRIOR TO REMOVAL OF THE STRUCTURES. PROPOSED CATCH BASINS SHALL BE INSTALLED AT THE SAME TOP OF GRATE ELEVATIONS AS EXISTING WITH THE INVERT ELEVATIONS SHOWN IN THE PLANS. REPLACE OUTLET PIPES AS SHOWN IN PLANS OR AS DIRECTED BY ENGINEER. PROPOSED DRAINAGE PIPES SHALL BE CONNECTED TO EXISTING PIPES USING MASONRY COLLAR AS PER STANDARD DRAWING DM-1.1. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED WITH ITEM SP604 - CATCH BASIN, NO. CB-1.

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DOWEL BARS REQUIRED ON STANDARD DRAWING BP-2.2 SHALL BE COATED IN ACCORDANCE WITH 709.13.

ITEM 202 - GUARDRAIL REMOVED FOR SALVAGE, AS PER PLAN THIS ITEM SHALL INCLUDE REMOVAL AND SALVAGE OF THE FOLLOWING MATERIALS AT EACH LOCATION IDENTIFIED IN THE PLANS: EXISTING TYPE E (ET-2000PLUS) ANCHOR ASSEMBLY EXTRUDER HEAD, CABLE ANCHOR, ANGLE STRUT, CABLE ASSEMBLY, BEARING PLATE, TWO TUBE SLEEVES, AND THE FIRST TWO 12.5' GUARDRAIL PANELS. CONTRACTOR SHALL USE CARE IN THE REMOVAL PROCESS TO MINIMIZE DAMAGE TO THE

<u> ITEM SP304 - 9" RECYCLED AGGREGATE BASE, AS PER PLAN (SHOULDER)</u>

THE SONTRACTOR SHALL CRUSH THE EXISTING CONCRETE BASE PAVEMENT FOR USE AS ITEM SETSON - 9" RECYCLED AGGREGATE BASE, AS PER PLAN (SHOULDER). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRANSPORTATION, CRUSHING OPERATIONS, TESTING, PERMITTING AND ASSOCIATED WORK IN ORDER TO PREPARE AND CREATE THIS MATERIAL. IT IS THE INTENT OF THIS ITEM TO PROCESS ALL OF EXISTING CONCRETE BASE PAVEMENT INTO ITEM SP304. THIS MAY RESULT IN EXCESS MATERIAL AFTER ALL THE REQUIRED MATERIAL HAS BEEN PLACED IN THE SHOULDER LIMITS. ANY AND ALL EXCESS MATERIAL REMAINING SHALL BE THE PROPERTY OF THE COMMISSION AND SHALL BE STOCKPILED NEAR THE SALT DOME AT M.P. 93.1 EB. THE STOCKPILE OF RECYCLED PORTLAND CEMENT CONCRETE (PROCC) MUST MEET THE REQUIREMENTS OF ODOT ITEM 304, AND OTS JEM SP304, WITH THE EXCEPTION OF THE SODIUM SULFATE SOUNDNESS TESTING. WHICH WILL BE REPLACED WITH MAGNESIUM SULFATE SOUNDNESS TESTING. THE SOUNDNESS THAN 15% WHEN TESTED USING MAGNESIUM SULFATE PER AASHTO TIO4. SQNTRACTOR SHALL CRUSH THE EXISTING CONCRETE BASE PAVEMENT FOR USE

AN ESTIMATED RESIDUAL QUANTITY OF 10,000 CU. YD. FOR ITEM SPECIAL - CRUSHED MATERIAL STOCKPILE HAS BEEN ADDED TO THE GENERAL SUMMARY FOR THE ALTERNATE BID ITEM.

IF THE CONTRACTOR OPTS TO USE THE ALTERNATE BID ITEM 302 FOR THE SHOULDER BASE, THEN THE ITEM SP304 - AGGREGATE BASE THICKNESS WILL NEED TO BE INCREASED TO 10 WHICH RESULTS IN THE ITEM SP304 -RECYCLED AGGREGATE BASE, AS PER PLAN (SHOULDER) QUANTITY OF 7910 CU. YD.

<u>ITEM SPECIAL - ROLLER COMPACTED CONCRETE (T=9")</u>

THIS ITEM SHALL COMPLY WITH OTC SPECIFICATION FOR ROLLER COMPACTED CONCRETE AND SHALL INCLUDE ALL EQUIPMENT, MATERIAL, LABOR AND OTHER INCIDENTALS
NECESSARY TO COMPLETE THIS ITEM OF WORK. SAW CUT JOINTS SHALL BE INSTALLED
TO MATCH ADJACENT JOINTS IN ITEM 452 AND SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A 'W-BEAM RAIL SPLICE' AS SHOWN ON STANDARD CONSTRUCTION DRAWING GR-1.1. THE TRANSITION IN HEIGHT WILL OCCUR OVER THE FIRST OR LAST TWENTY FIVE (25) FEET. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM SPECIAL - PRECAST REINFORCED CONCRETE OUTLET

THIS ITEM SHALL BE IN ACCORDANCE WITH OTC STANDARD DRAWING UD-1 AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS TO COMPLETE THIS ITEM.

ITEM SP605 - AGGREGATE DRAIN, AS PER PLAN

THE ENTIRE OUTSIDE PERIMETER OF THE AGGREGATE DRAIN SHALL BE WRAPPED WITH FILTER FABRIC, TYPE A, AS PER ODOT SPECIFICATION 712.09. DURING THE EXCAVATION OF THE TRENCH FOR AGGREGATE DRAIN, SPECIAL CARE IS NEEDED TO PREVENT DAMAGE TO THE ADJACENT EXISTING UNDERDRAIN FILTER FABRIC WRAP. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM SP605 - AGGREGATE DRAIN, AS PER PLAN.

PAVEMENT REPAIRS

THE FOLLOWING QUANTITIES, ARE INCLUDED AS A CONTINGENCY, TO BE USED AS DIRECTED BY THE COLLOWING QUANTITIES, ARE INCLUDED AS A CONTINGENCY, TO BE USED AS DIRECTED BY THE CHIEF ENGINEER FOR PAVEMENT REPAIR MEASURES TO MAINTAIN TRAFFIC. CONTRACTOR SHALL FOLLOW ODOT CMS FOR ITEM 255, EXCEPT THAT PLACEMENT OF THE DOWEL BARS ARE IN NOT REQUIRED, CONCRETE SHALL BE CLASS FS, JAND MAINTENANCE OF TRAFFIC COSTS INCURRED BY THE CONTRACTOR FOR THESE CURRENTLY UNKNOWN AND UNDEFINED PAVEMENT REPAIRS WILL BE COMPENSATED ON A TIME AND MATERIALS BASIS AS APPROVED BY THE CHIEF ENGINEER.

**DEPTH FOR PARTIAL REMOVAL WILL BE 5" (+/-) TO THE SURFACE OF THE CONCRETE BASE. INMEDIATELY BELOW SHALL NOT INCLUDE MAINTENANCE OF TRAFFIC COSTS.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR

ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT

ITEM 255 - FULL DEPTH PAVEMENT SAWING

ITEM SPECIAL - ASPHALT PAVEMENT REINFORCEMENT

THIS ITEM SHALL INCLUDE FURNISHING AND PLACING AN ASPHALT PAVEMENT REINFORCEMENT GRID AT THE LOCATIONS AS SHOWN ON THE PLANS. THE ASPHALT PAVEMENT REINFORCEMENT GRID SHALL BE "GLASGRID - CG200" AS MANUFACTURED BY SAINT-GOBAIN TECHNICAL FABRICS OR APPROVED EQUAL. THE ASPHALT PAVEMENT REINFORCEMENT GRID SHALL BE INSTALLED AS PER THE RECOMMENDATIONS OF THE MANUFACTURER. THE UNIT PRICE BID PER SQUARE YARD FOR ITEM SPECIAL - ASPHALT PAVEMENT REINFORCEMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND OTHER INCIDENTALS NECESSARY TO COMPLETE THIS ITEM OF WORK (AN ESTIMATED 192 C.Y. OF SP 402 ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE. PG 70-22 (FR) HAS BEEN CARRIED TO GENERAL SUMMARY TO BE PLACED EUNDER THE REINFORCEMENT AT THE TESTING LOCATIONS.

ITEM 305 - CONCRETE BASE (T=12")

WHEN THIS ITEM IS TO BE OVERLAID WITH ASPHALT, COMPOUNDS FOR CURING CONCRETE AS DESCRIBED IN 705.07 SHALL NOT BE USED EXCEPT THAT CURING COMPOUNDS SHALL MEET THE REQUIREMENTS OF ASTM C309 AND SHALL BE COMPATIBLE WITH ITEM SPECIAL TRACKLESS TACK CURING SHALL BE IN ACCORDANCE WITH ALTERNATE METHODS SPECIFIED IN ODOT SPECIFICATION 451.10 AND SUPPLEMENTED WITH ALTERNATIVE METHODS SPECIFICATION 451.10 AND SUPPLEMENTED WITH SPECIFICATION 305.02. CONTRACTOR MAY USE OTHER WATER BASED CURING COMPOUNDS AS AN ALTERNATIVE METHOD WHICH RESULT IN A SURFACE THAT PREVENTS DE BONDING BETWEEN CONCRETE BASE AND ASPHALT OVERLAY. THE SPECIFICATIONS FOR ALTERNATIVE CURING COMPOUNDS SHALL BE SUBMITTED TO THE CHIEF ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ANY APPLICATION OR PURCHASE.

ITEM SPECIAL - SAW CUT JOINT

THIS ITEM SHALL CONSIST OF SAW CUTTING WITH A DIAMOND BLADE AT JOINTS WHERE EXISTING ASPHALT AND PROPOSED ASPHALT MEET. THE LOCATION AND DEPTH SHALL BE AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE CHIEF ENGINEER. PAYMENT FOR THIS ITEM WILL BE AT UNIT BID PRICE PER LINEAR FOOT FOR ITEM SPECIAL - SAW CUT JOINT AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS ITEM. THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY:

ITEM SPECIAL - SAW CUT JOINT

86,156 FT.

ALL MAINTENANCE OF TRAFFIC NECESSARY TO COMPLETE THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO ITEM SP 614 - MAINTAINING TRAFFIC.

ITEM 209 - DITCH CLEANOUT

THIS ITEM SHALL CONSIST OF FIELD SURVEY, CLEARING, EXCAVATION AND EMBANKMENT AS NECESSARY TO REESTABLISH THE CROSS SECTION OF THE EXISTING DITCHES AS DIRECTED BY THE CHIEF ENGINEER. PAYMENT FOR THIS ITEM WILL BE AT UNIT BID PRICE PER LINEAR FOOT FOR ITEM 209 - DITCH CLEANOUT AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS ITEM. ALL MAINTENANCE OF TRAFFIC NECESSARY TO COMPLETE THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO ITEM SP 614 - MAINTAINING TRAFFIC.

THE FOLLOWING TABLE SHOWS AREAS EXPECTED TO REQUIRE THIS TREATMENT:

STATION T	O STATION	SIDE	LENGTH (FT.)	WIDTH (FT.)	AREA (S.Y.)
454+88	455+88	LT.	100	20	222.2
515+50	516+50	LT.	100	20	222.2
511+10	511+60	LT.	50	20	111.1
570+50	571+50	LT.	100	20	222.2
598+00	599+00	LT.	100	20	222.2
603+00	605+00	LT.	200	20	444.4
608+00	608+75	LT.	75	20	166.7
612+50	615+50	LT.	300	20	666.7
617+50	617+75	LT.	25	20	55.6
622+50	625+50	LT.	300	20	666.7
632+00	634+00	LT.	200	20	444.4
638+00	641+75	LT.	375	20	833.3
643+25	643+75	LT.	50	20	111.1
645+00	649+50	LT.	450	20	1000.0
651+25	651+75	LT.	50	20	111.1
653+50	656+50	LT.	300	20	666.7
659+50	661+50	LT.	200	20	444.4
662+50	663+50	LT.	100	20	222.2
671+50	672+50	LT.	100	20	222.2
677+50	678+50	LT.	100	20	222.2
681+75	682+25	LT.	50	20	111.1
689+75	690+25	LT.	50	20	111.1
693+00	702+50	LT.	950	20	2111.1
715+75	724+00	LT.	825	20	1833.3
729+00	740+00	LT.	1100	20	2444.4
10%	CONTINGEN	NCY	625	20	1388.9
	TOTAL	•	6875		15277.8

SEEDING & MULCHING

1500 SQ. YD.

1500 SQ. YD.

1300 FT.

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659 - SOIL ANALYSIS TEST	6 EACH
ITEM 659 - TOPSOIL	7,717 <i>CU. YD.</i>
ITEM 659 - SEEDING AND MULCHING	69,516 <i>SQ. YD</i> .
ITEM 659 - REPAIR SEEDING AND MULCHING	3,476 <i>SQ. YD.</i>
ITEM 659 - INTER-SEEDING	3,476 <i>SQ. YD.</i>
ITEM 659 - COMMERCIAL FERTILIZER	9.39 <i>TON</i>
ITEM 659 - LIME	14.37 <i>ACRES</i>
ITEM 659 - WATER	375 M. GAL.

ITEM 659 - TOPSOIL IS ONLY APPLICABLE WHEN TOPSOIL IS PHYSICALLY REMOVED FROM THE SLOPES AND MOVED TO A CONSTRUCTED TOP SOIL STOCK PILE SOLELY FOR THE PURPOSE OF TEMPORARY STORAGE PRIOR TO REUSE. SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF- WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON AN ASSUMED LIMIT 10' BEYOND THE SHOULDER FOR THE LENGTH OF THE PROJECT, THE TOTAL AREA OF DITCH CLEANOUT AS SHOWN PREVIOUSLY, SLOPE REPAIR AREAS, AND ON THE SLOPES WHERE DRAIN PIPE PLACEMENT OCCURS. FOR THE PURPOSES OF THE DRAIN PIPE REPLACEMENT AREA CALCULATIONS A WIDTH OF 30' AND A LENGTH OF 37' WAS ASSUMED FOR EACH OF THE 77 PIPE PLACEMENT AREAS.

ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A

THIS ITEM OF WORK SHALL CONSIST OF INSTALLING PRESSURE RELIEF JOINT, TYPE A, AT EACH APPROACH TO EACH MAINLINE BRIDGE ACROSS THE NEW PAVEMENT AND OUTSIDE SHOULDER IN ACCORDANCE WITH THE DETAIL SHOWN ON OHIO DEPARTMENT OF TRANSPORATION STANDARD DRAWING BP-2.3 (07-16-04).

PRESSURE RELIEF JOINT LOCATIONS WILL BE FIELD LOCATED BY THE CHIEF ENGINEER APPROXIMATE LOCATIONS FOR WESTBOUND LANES ARE SHOWN IN THE FOLLOWING TABLE;

ITEM SPECIAL — PRESSURE R TYPE A	ELIEF J	IOINT,
STATION	SIDE	FT.
439+98.00	LT	78
441+62.00	LT	79
447+67.00	LT	64
449+26.00	LT	65
468+72.00	LT	85
471+39.00	LT	85
535+39.00	LT	61
537+33.00	LT	61
547+60.00	LT	36
557+53.00	LT	36
649+92.00	LT	63
651+56.00	LT	63
713+39.00	LT	75
715+42.00	LT	75
TOTAL		927

THE FOLLOWING QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY: ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A ITEM SP605 - 6" UNCLASSIFIED PIPE UNDERDRAIN, WITH FABRIC WRAP ITEM 603 - 6" CONDUIT, TYPE F, 707.41 NON-PERFORATED ASTM D3034

941 FT. 117 FT.

927 FT.

ITEM 642 - PERMANENT PAVEMENT MARKINGS

(SDR 35) 707.42 OR 707.33

PERMANENT PAVEMENT MARKING LOCATIONS SHALL BE DETERMINED BY REFERENCING THE BASE PAVEMENT JOINTS, AS SHOWN ON OTC STANDARD DRAWING RPM-1.

<u>ITEM SP626 - RAISED PAVEMENT MARKER</u>

THIS ITEM SHALL BE INSTALLED IN ACCORDANCE WITH SP626 WITH THE FOLLOWING CHANGES IN SPACING: 120' FOR ALL TANGENT SECTIONS AND 80' FOR ALL CURVES.

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NO.		REVISIONS		BY	DATE
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OHIO TURNPIKE COMMISSION

OHIO TURNPIKE WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION GENERAL NOTES

CDD CDOLLD

520 South Main Street,	Pyle, Schomer, Burns & DeHaven, Suite 2531, Akron, Ohio 44311 Gaus, Pyle, Schomer, Burns & DeHaven, Inc.	Fax 330-572-2101
ESIGNED: CLH CLH CLH	CHECKED: MVJ IN CHARGE: MRG	DATE: 12/21/12 SCALE: N/A

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CONTRACT 39-13-01

THIS WORK SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED IN ITEM 206 - CHEMICALLY STABILIZED SUBGRADE OF ODOT 2010 CMS EXCEPT AS NOTED BELOW:

ITEM 206.02 MATERIALS: CURING COAT SUBMITTAL NOT REQUIRED

ITEM 206.03 SUBMITTALS: MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS IS NOT REQUIRED BY THE CONTRACTOR.

ITEM 206.05 CONSTRUCTION:

A. SPREADING - USE AN APPLICATION RATE OF 4% LIME-KILN DUST AND 6% PORTLAND CEMENT BY DRY UNIT WEIGHT. THE APPLICATION RATE WILL VARY DEPENDING ON THE IN-SITU DRY UNIT WEIGHT OF THE SOIL. QUANTITY OF PORTLAND CEMENT IS BASED ON A IN-SITU DRY UNIT WEIGHT OF 110 LBS/FT. THE CONTRACTOR SHALL APPLY 4% LIME-KILN DUST AND ALLOW THE SOIL-LIME-KILN DUST MIXTURE TO MELLOW FOR AT LEAST 29 HOURS BEFORE APPLYING 6% PORTLAND CEMENT

D. CURING - THE TREATED AREA SHALL BE SHAPED TO THE REQUIRED LINES, GRADES AND CROSS SECTIONS AND FINAL COMPACTION, BY WAY OF SMOOTH DRUM ROLLER WEIGHING AT LEAST 10 TONS, SHALL CONTINUE UNTIL UNIFORM AND ADEQUATE COMPACTION IS OBTAINED. THE CONTRACTOR SHALL MAINTAIN THE SURFACE OF THE LIME-KILN DUST-MODIFIED/PORTLAND CEMENT-STABILIZED SOIL SUBGRADE IN A MOIST CONDITION DURING THE CURING PERIOD. DURING THE CURING PERIOD, NO TRAFFIC SHALL BE PERMITTED ON THE COMPLETED WORK BEYOND THAT REQUIRED FOR MAINTAINING MOIST CONDITIONS. THE LENGTH OF THE CURING PERIOD WILL DEPEND ON THE ACCEPTANCE OF THE CEMENT STABILIZED SOIL SUBGRADE. THE CORING FERIOD WILL DEFEND ON THE ACCEPTANCE OF THE CEMENT STABILIZED SOIL SUBGRADE. THE ACCEPTANCE OF THE LIME-KILN DUST-MODIFIED/PORTLAND CEMENT-STABILIZED SOIL SUBGRADE WILL BE EVALUATED AFTER 72 HOURS OF CURING.2 OIL SUBGRADE, ADDITIONAL CURING MAY BE REQUIRED. SUFFICIENT PROTECTION FROM FREEZING SHALL BE GIVEN TO THE CHEMICALLY STABILIZED MATERIAL FOR 7 DAYS AFTER ITS CONSTRUCTION OR AS APPROVED BY THE CHIEF ENGINEER.

PROOF ROLLING - ACCEPTANCE TESTING OF THE LIME-KILN DUST-MODIFIED/PORTLAND CEMENT-E. PROOF ROLLING - ACCEPTANCE TESTING OF THE LIME-KILN DUST-MODIFIED/PORTLAND CEMENTSTABILIZED SOIL SUBGRADE WILL BE PERFORMED AFTER 72 HOURS OF CURING. AN AUTOMATIC DYNAMIC
CONE PENETROMETER (ADCP) WILL BE USED AS THE INITIAL ACCEPTANCE TEST FOR THE CEMENT
STABILIZED SOIL SUBGRADE. THE ADCP WILL MEASURE THE PENETRATION RATE (PR) IN MM/BLOW FOR
THE LIME-KILN DUST-MODIFIED/PORTLAND CEMENTZ -STABILIZED SOIL SUBGRADE THROUGH THE TREATMENT
DEPTH. THE MAXIMUM PENETRATION RATE THROUGHOUT THE LIME-KILN DUST-MODIFIED/PORTLAND CEMENTSTABILIZED SOIL SUBGRADE MUST AVERAGE (1.0) MM/BLOW TESTS WILL BE PERFORMED EVERY 200 LINEAR
FEET OF ROADWAY. IF THE AVERAGE PR OF THE LIME-KILN DUST-MODIFIED/PORTLAND CEMENT-STABILIZED
SOIL SUBGRADE IS BELOW 11.0 MM/BLOW, THEN THE CONTRACTOR CAN PROCEED WITH CONSTRUCTION OF THE PAVEMENT STRUCTURE. IF THE AVERAGE PR OF THE LIME-KILN DUST-MODIFIED/PORTLAND CEMENT-STABILIZED SOIL SUBGRADE IS ABOVE 11.0 MM/BLOW, THEN THE LIME-KILN DUST-MODIFIED/PORTLAND CEMENT-STABILIZED SOIL SUBGRADE MUST CONTINUE TO CURE FOR TWO ADDITIONAL DAYS AND THEN BE PROOF ROLLED IN ACCORDANCE WITH ODOT ITEM 204.

F. PROTECTION - ALL THE PROVISIONS OF 206.05 PARAGRAPH F APPLY AS WELL AS THE FOLLOWING: FINISHED PORTIONS OF THE STABILIZED SUBGRADE THAT ARE TRAVELED ON BY EQUIPMENT USED IN CONSTRUCTING ANY OTHER SECTION SHALL BE PROTECTED IN SUCH A MANNER AS TO PREVENT EQUIPMENT FROM MARRING OR DAMAGING ANY COMPLETED AND ACCEPTED WORK. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGE TO THE STABILIZED SUBGRADE THAT ARISES DUE TO HIS OPERATIONS.

G. THE SOILS REPORT FOR THE DESIGN OF THE CHEMICALLY STABILIZED SUBGRADE MAY BE VIEWED AT THE OHIO TURNPIKE COMMISSION OFFICES LOCATED AT 682 PROSPECT STREET, BEREA, OHIO 44017, TELEPHONE (440) 234-2081.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK UNDER ITEM 206 - CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN:

ITEM 206 - LIME-KILN DUST MODIFIED SOIL SUBGRADE, 16 INCHES DEEP, AS PER PLAN 115,106 SQ. YD. ITEM 206 - CEMENT STABILIZED SUBGRADE, 16 INCHES DEEP, AS PER PLAN 115,106 SQ. YD.

ITEM 206 - LIME-KILN DUST

TEM 206 - CEMENT

ITEM 206 - WATER FOR CURING ITEM 206 - TEST ROLLING

105,106 SG. TD. 3039 TONS 4558 TONS 17,7 M CAD. 39 HOURS

<u>ITEM 604 - CATCH BASIN ADJUSTMENTS, GRATES AND CASTINGS, AS PER PLAN</u>

THE FOLLOWING CONTINGENCY ITEMS HAVE BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR USE IN ADJUSTING, REPAIRING, AND/OR REBUILDING SHOULDER CATCH BASINS. FOR CATCH BASINS ADJUSTED TO GRADE THE CONTRACTOR SHALL REBUILD FROM THE TOP OF PRECAST STRUCTURE TO THE BOTTOM OF THE CASTING AT THE EXISTING GRADE. THE USE OF BRICK TO REBUILD THE CATCH BASIN SHALL BE PROHIBITED. THE CONTRACTOR SHALL SAWCUT PAVEMENT AROUND THE EXISTING CATCH BASIN, A MINIMUM OF 12" AROUND THE CASTING AND REMOVE THE CASTING AND SAWCUT ASPHALT CONCRETE. THE CONTRACTOR SHALL FORM AND POUR, USING CLASS "C" CONCRETE, TO REBUILD THE CATCH BASIN TO SECURE CONCRETE TO THE EXISTING PRECAST STRUCTURE, THE CONTRACTOR SHALL INSTALL #4 DOWEL BARS, SPACED 12" O/C (3 PER SIDE UNLESS DIRECTED OTHERWISE BY THE CHIEF ENGINEER) IN ACCORDANCE WITH ITEMS 509 AND 510. THE DOWEL BARS SHALL BE IMBEDED AT LEAST 6' INTO THE EXISTING PRECAST STRUCTURE AND SECURED WITH NON-SHRINK NON-METALLIC GROUT THAT CONFORMS TO SP 952. THE CONTRACTOR SHALL USE FORMS SIZED TO CONFORM TO THE INTERIOR OF THE CATCH BASIN, AND THAT WILL INSURE A SMOOTH INTERIOR FINISH. ALL OTHER CONCRETE SURFACES SHALL HAVE A BROOMED FINISH. A FIFER THE CASTING IS SET TO THE FINAL THE FOLLOWING CONTINGENCY ITEMS HAVE BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR USE IN CONCRETE SURFACES SHALL HAVE A BROOMED FINISH. AFTER THE CASTING IS SET TO THE FINAL GRADE, THE AREA AROUND THE ADJUSTED CATCH BASIN CASTING SHALL BE BACK FILLED WITH CLASS "C" CONCRETE TO THE EXISTING SURFACE. FOR CATCH BASINS ADJUSTED TO GRADE WITH DISTANCES FROM THE TOP OF THE PRECAST STRUCTURE TO THE BOTTOM OF THE CASTING THAT ARE GREATER THAN 12", THE SAME METHOD SHALL BE USED TO REBUILDING THE CATCH BASINS TO GRADE. FOR CATCH BASINS ADJUSTED TO GRADE WITH DISTANCES FROM THE TOP OF THE PRECAST STRUCTURE TO THE BOTTOM OF THE CASTING THAT ARE LESS THAN 4', THE SAME METHOD SHALL BE USED TO REBUILDING THE CATCH BASINS TO GRADE, EXCEPT THAT NO FORMS OR DOWELS ARE REQUIRED

A CONTINGENCY QUANTITY OF CATCH BASIN GRATE AND CASTING, AS PER PLAN, HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE CHIEF ENGINEER. THE REPLACEMENT GRATE AND CASTING SUPPLIED SHALL BE HEAVY DUTY.

ALL CONCRETE, DOWELS, DOWEL HOLES, GROUT, SAW CUTTING, LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE BID

ITEM 604 - CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN ITEM 604 - CATCH BASIN ADJUSTED TO GRADE, GREATER THAN 12", AS PER PLAN ITEM 604 - CATCH BASIN GRATE AND CASTING, AS PER PLAN 5 EACH

<u> ITEM 604 - CATCH BASIN ADJUSTMENTS, GRATES AND CASTINGS, AS PER PLAN - (CONTINUED)</u> OTC STANDARD DRAWINGS CB-1, CB-2, CB-3, CB-4, AND CB-5 ARE PROVIDED FOR INFORMATION AS TO THE TYPES OF BASINS THAT MAY NEED ADJUSTMENT.

<u>ITEM SP 407 - TACK COAT, AS PER PLAN AND</u>

ITEM SP 407 - TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN

DESCRIPTION: THIS WORK CONSISTS OF PREPARING AND TREATING A PAVED SURFACE WITH NTSS-IHM TRACKLESS TACK PRODUCED BY BLACKLIDGE EMULSIONS, INC. MEET ALL REQUIREMENTS OF CONSTRUCTION AND MATERIAL SPECIFICATIONS ITEM 407 TACK COAT EXCEPT AS NOTED BELOW.

MATERIAL: CONFORM TO THE FOLLOWING TYPICAL PHYSICAL PROPERTIES:

<u>PARAMETER</u>	TEST METHOD	MIN.	MAX.
SAYBOLT FUROL VISCOSITY, SFS @ 25C	<i>AASHTO T59</i>	<i>15</i>	100
STORAGE STABILITY, 24 HRS, %	<i>AASHTO T59</i>		1
STORAGE STABILITY, 5 DAYS, %	AASHTO T59		5
RESIDUE BY DISTILLATION, %	AASHTO T5950		
OIL DISTILLATE, %	AASHTO T59		1
SIEVE TEST, %	<i>AASHTO T59</i>		0.30
TEST ON RESIDUE:			
PENETRATION, @ 25C	AASHTO T49		20
SOFTENING POINT RANGE DEG C	AASHTO T53	<i>65</i>	
SOLUBILITY,%	AASHTO T44	<i>97.</i> 5	
ORIGINAL BINDER DSR@82C			
G*/SIN ,,10 RAD/SEC	AASHTO T315	1.00	

NOTE: PRODUCT SHOULD NOT CONTAIN FILLER SUCH AS CLAY, ETC. KEEP FROM FREEZING. SUPPLY CERTIFIED TEST DATA FROM AN INDEPENDENT LAB TO THE ENGINEER SHOWING THE MATERIAL SUPPLIED WAS TESTED FOR AND MEETS THE ABOVE PROPERTIES.

EQUIPMENT: ALL REQUIREMENTS OF 407.03 APPLY. SEE MANUFACTURER'S REPRESENTATIVE FOR CORRECT DISTRIBUTOR SETTINGS. THOROUGHLY CLEAN ALL EQUIPMENT IF CATIONIC EMULSION WAS PREVIOUSLY USED.

WEATHER LIMITATIONS: ALL REQUIREMENTS OF 407.04 APPLY.

PREPARATION OF SURFACE: ALL REQUIREMENTS OF 407.05 APPLY.

APPLICATION OF ASPHALT MATERIAL: UNIFORMLY APPLY THE ASPHALT MATERIAL WITH A DISTRIBUTOR PER THE REQUIREMENTS OF 407.06 EXCEPT AS NOTED. IF PRODUCT IS STORED FOR AN EXTENDED PERIOD OF TIME, PRIOR TO APPLICATION, AGITATE OR GENTLY CIRCULATE THE MATERIAL. ALL NOZZLES AND SPRAY PATTERNS SHALL BE IDENTICAL TO ONE ANOTHER ALONG THE DISTRIBUTOR SPRAY BAR. THE ANGLE OF THE NOZZLE SHOULD BE A 15 TO 30 DEGREE ANGLE TO THE SPRAY BAR AXIS TO MAXIMIZE OVERLAP OR AS RECOMMENDED BY THE NOZZLE MANUFACTURER. CONTACT THE MANUFACTURER'S REPRESENTATIVE FOR REQUIRED SPRAY NOZZLE SIZE, AND DISTRIBUTOR AND NOZZLE SETTINGS. APPLY AT A RATE OF 0.075 GALLONS PER SQUARE YARD TO ALL MILLED SURFACES AND AT A RATE OF 0.06 GALLONS PER SQUARE YARD TO ALL SMOOTH PAVED SURFACES AND BETWEEN COURSES OF ASPHALT. RECOMMENDED APPLICATION TEMPERATURE IS 160F TO 180F. DO NOT EXCEED 180F. DILUTION IS NOT ALLOWED.

THE ENGINEER AND MANUFACTURER'S REPRESENTATIVE WILL APPROVE RATE OF APPLICATION, TEMPERATURE. DISTRIBUTOR SETTINGS, AND AREAS TO BE TREATED BEFORE APPLICATION OF THE TACK COAT. THE ENGINEER WILL DETERMINE THE ACTUAL APPLICATION IN GALLONS PER SQUARE YARD BY A CHECK ON THE PROJECT. THE APPLICATION IS CONSIDERED SATISFACTORY WHEN THE MATERIAL IS APPLIED UNIFORMLY WITH NO VISIBLE EVIDENCE OF STREAKING OR RIDGING AND THE APPLICATION RATE IS $\pm 10\%$ OF THE SPECIFIED RATE.

METHOD OF MEASUREMENT: ALL REQUIREMENTS OF 407.07 APPLY.

BASIS OF PAYMENT: ALL REQUIREMENTS OF 407.08 APPLY.

ASPHALT SURFACE COURSE PAVING WITH MATERIAL TRANSFER DEVICE

IN ADDITION TO THE REQUIREMENTS OF SP 400, A MATERIAL TRANSFER DEVICE (MTD) SHALL BE USED FOR ALL SURFACE COURSE MAINLINE AND RAMP PAVING. THE MTD SHALL BE SELF PROPELLED AND NOT ATTACHED TO THE ASPHALT SPREADING AND FINISHING EQUIPMENT. THE MTD SHALL BE CAPABLE OF REMIXING AND TRANSFERRING THE ASPHALT MIXTURE FROM THE MTD TO THE ASPHALT SPREADING AND FINISHING EQUIPMENT. ALL COSTS ASSOCIATED WITH THE USE OF THIS EQUIPMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT SP 404 ITEMS.

ITEM SP 606E - ANCHOR ASSEMBLY, TYPE E (ET-2000PLUS), AS PER PLAN

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19. THIS REFLECTIVE SHEETING WILL BE SUPPLIED BY THE OHIO TURNPIKE COMMISIÓN AND INSTALLED BY THE CONTRACTOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM SP 606E, ANCHOR ASSEMBLY, TYPE E (ET-2000PLUS), AS PER PLAN, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

<u>LIME-KILN DUST MODIFICATION / CEMENT STABILIZATION</u> AT CULVERTS AND APPROACH SLAB AREAS

BRIDGE APPROACH SLABS EXCAVATE 16 INCHES OF THE EXPOSED SOIL SUBGRADE FROM THE EDGE OF THE BRIDGE FACE TO 20 FEET BEYOND THE BRIDGE FACE AND SPREAD THE EXCAVATED SOIL IN THE AREA TO BE CHEMICALLY STABILIZED. PERFORM CHEMICAL STABILIZATION ON THE EXCAVATED SOIL USING THE SAME REQUIREMENTS AS THE ADJACENT SUBGRADE. AFTER CHEMICALLY STABILIZING THE EXCAVATED SOIL, PLACE THE EXCAVATED SOIL BACK IN THE EXCAVATION FROM THE BRIDGE FACE TO 20 FEET BEYOND THE BRIDGE FACE AND COMPACT ACCORDING TO THE PROJECT

BOX CULVERTS WHERE DEPTH OF COVER IS GREATER THAN 4 FEET:

CHEMICALLY STABILIZE ACCORDING TO ITEM 206 CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN.

SPECIFICATIONS.

BOX CULVERTS WHERE DEPTH OF COVER IS BETWEEN 2-4 FEET:

EXCAVATE 12 INCHES OF THE EXPOSED SOIL SUBGRADE FROM 20 FEET BEYOND BOTH ENDS OF THE BOX CULVERT AND THE SPREAD THE EXCAVATED SOIL IN THE AREA TO BE CHEMICALLY STABILIZED. PERFORM CHEMICAL STABILIZATION ON THE EXCAVATED SOIL USING THE SAME REQUIREMENTS AS THE ADJACENT SUBGRADE. AFTER CHEMICALLY STABILIZING THE EXCAVATED SOIL, PLACE THE EXCAVATED SOIL BACK IN THE EXCAVATION FROM 20 FEET BEYOND BOTH ENDS OF THE BOX CULVERT AND COMPACT ACCORDING TO THE PROJECT SPECIFICATIONS.

BOX CULVERTS WHERE DEPTH OF COVER IS LESS THAN <u> 2 FEET:</u>

EXCAVATE 16 INCHES OF THE EXPOSED SOIL SUBGRADE FROM THE EDGE OF THE BOX CULVERT TO 20 FEET BEYOND THE END OF THE BOX CULVERT AND SPREAD THE EXCAVATED SOIL IN AN AREA TO BE CHEMICALLY STABILIZED. PERFORM CHEMICAL STABILIZATION ON THE EXCAVATED SOIL USING SAME REQUIREMENTS AS THE ADJACENT SUBGRADE. AFTER CHEMICALLY STABILIZING THE EXCAVATED SOIL, PLACE THE EXCAVATED SOIL BACK IN THE EXCAVATION FROM THE EDGE OF THE BOX CULVERT TO 20 FEET BEYOND THE BOX CULVERT AND COMPACT ACCORDING TO PROJECT SPECIFICATIONS.

COMPACT THE EXISTING SUBGRADE MATERIAL OVER THE BOX CULVERT USING A NON-VIBRATORY ROLLER AND TEST FOR PERCENT COMPACTION ACCORDING TO THE PROJECT SPECIFICATIONS. DO NOT PROOF ROLL. IF THE COMPACTED SOIL DOES NOT MEET THE SPECIFICATION REQUIREMENTS FOR DENSITY, THE ENGINEER WILL DELINEATE THE AREA TO BE UNDERCUT AND BACKFILL WITH ITEM SP304 MATERIAL.

FOR ALL SCENARIOS LISTED ABOVE IN AREAS INACCESSIBLE TO THE SPECIFIED COMPACTION EQUIPMENT. THE CONTRACTOR SHALL ENSURE THAT THE SPECIFIED COMPACTION IS OBTAINED USING OTHER SUITABLE EQUIPMENT.

PAYMENT FOR EXCAVATION AND EMBANKMENT REQUIRED TO COMPLETE THE STABILIZATION IN THE AREAS SHALL BE INCLUDED IN AND INCIDENTAL TO ITEM 206 - LIME-KILN DUST MODIFIED / CEMENT STABILIZED SUBGRADE, 16 INCHES DEEP, AS PER PLAN.

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OHIO TURNPIKE WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION GENERAL NOTES



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CONTRACT 39-13-01

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8	9	10			11:		IEET NUMB			117	118	119	120	INSERT		ITEM	GRAND TOTAL	UNIT DESCRIPTION R	REF. N
	-	10			1			<u> </u>			110	110	120	IIIOZIKI				DRAINAGE (CONTINUED)	
						4	40 1									SPECIAL	41	EACH PRECAST REINFORCED CONCRETE OUTLET	9
							33									SPECIAL	33	EACH 12" PRECAST CONCRETE END SECTION	8
							2									SPECIAL	2	EACH 15" PRECAST CONCRETE END SECTION	8
							1									SPECIAL	1	EACH 18" PRECAST CONCRETE END SECTION	8
							1									SPECIAL	1	EACH 30" PRECAST CONCRETE END SECTION	8
								_								ODEOLAL			
							1	_								SPECIAL	1	EACH DRAINAGE GATE FOR 16' X 6' BOX CULVERT	8
																		PAVEMENT	
		115106														206	115106	SQ YD LIME-KILN DUST MODIFIED SOIL SUBGRADE, 16 INCHES DEEP, AS PER PLAN	10
		115106														206		SQ YD CEMENT STABILIZED SUBGRADE, 16 INCHES DEEP, AS PER PLAN	10
		3039														206	3039	TON LIME-KILN DUST	
			_													206		TON CEMENT	
		4558 7.73	1													206 /	4558 1\9,7}	M GAL WATER FOR CURING	
		39														206	39	HOUR TEST ROLLING	
	1500															251	1500	SQ YD PARTIAL DEPTH PAVEMENT REPAIR	9
										28968						252	28968	FT FULL DEPTH PAVEMENT SAWING	
	1500															255	1500	SQ YD FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT	9
	1300															255	1300	FT FULL DEPTH PAVEMENT SAWING	9
								_		10007						CD 70.4	10007	OLL VD. ACCRECATE DAGE	
										16997 7256						SP304 SP304	7256	CU YD AGGREGATE BASE CU YD AGGREGATE BASE (SHOULDER)	
										85778						305		SQ YD CONCRETE BASE (T=12")	9
										1329						SP402	1329	CU YD ASPHALT CONC. BASE COURSE OR RECYCLED ASPHALT CONC. BASE COURSE, PG64-22	
	मुब्	\wedge								4363					$+ \wedge +$	SP402		CU YD ASPHALT CONC. BASE COURSE OR RECYCLED ASPHALT CONC. BASE COURSE, PG70-22 (FR)	
	1 (135)									1000						31 102	0355	TO TO THE POWER BY THE POWER OF THE POWER PARTY TO THE	
										1139						SP404	1139	CU YD ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG64-22	
										7475						SP404		CU YD ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70-22 (FR)	
										53814						SP404A	53814	FT JOINT SEALER	-
										10813						SP407	10813	GALLON TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN	10
										8493						SP407	8493	GALLON TACK COAT, AS PER PLAN	10
										27861						SPECIAL		SQ YD ROLLER COMPACTED CONCRETE (SHOULDER T=9")	9
											11026					617	11026	SQ YD SHOULDER PREPARATION	
											391					617	391	CU YD COMPACTED AGGREGATE	
										7050	1002					SP627	1002	TON STONE SHOULDER PROTECTION	9
										7959						SPECIAL	7959	SQ YD ASPHALT PAVEMENT REINFORCEMENT	
	927															SPECIAL	927	FT PRESSURE RELIEF JOINT, TYPE A	9
	327									5.38						SPECIAL	5.38	MILE SONIC NAP ALERT PATTERN (SNAP)	
	86156									0.00						SPECIAL	86156	FT SAW CUT JOINT	9
																		ALTERNATE BID	
										28593						SP302	28593	CU YD BITUMINOUS AGGREGATE BASE, PG64-22 (MAINLINE BASE PAVEMENT - ALTERNATE BID)	
										6191						SP302	6191	CU YD BITUMINOUS AGGREGATE BASE, PG64-22 (SHOULDER BASE PAVEMENT - ALTERNATE BID)	
	654									m)					SP304	654	CU YD AGGREGATE BASE, (SHOULDER BASE PAVÈMENT — ALTERNATE BID) CU YB RECYCLED AGGREGATE BASE, AS PER PLAN (SHOULDER AGGREGATE BASE ALTERNATE BIB)	9
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																		MAINTENANCE OF TRAFFIC	
																		FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET	15
																		GENERAL	
																B, ART.6		LUMP PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND	
																SP115	LUMP	LUMP RAILROAD PROTECTIVE LIABILITY INSURANCE	
	1															SP619	LUMP	LUMP FIELD OFFICE	
																SP623	LUMP	LUMP CONSTRUCTION LAYOUT SURVEY	
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OHIO TURNPIKE COMMISSION

OHIO TURNPIKE WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION GENERAL SUMMARY SHEET 2 OF 2

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PAVEMENT	CALCUL/	ATIONS	S - WES	STBOUN	D AREA	S OF W	ORK								\sim																		
									202	203	204	252	25	54		SP304			305		402		SP404		SP404A	SP4	107	SPECIAL	SP.	302	SP605	SPECIAL	. SPECIAL
STATION TO STATION		SIDE	LENGTH	PAVEMENT WIDTH	SHOULDER WIDTH	SURFACE AREA	APPROACH SLAB AREA	PLANIMETERED AREA	PAVEMENT REMOVED	EXCAVATION (T=6"+/- MAINLINE PAYMENT, T=12:5"+/- SHOULDERS, T=12"+/- APPROACH SLARS)	:	FULL DEPTH PAVEMENT SAWING	PAVEMENT PLANING, ASPHALT CONCRETE (T=5"+/-)	PAVEMENT PLANING, ASPHALT CONCRETE (T=2"+/-)	9" AGGREGATE BASE		7" AGGREGATE BASE	12" AGGREGATE BASE	CONCRETE BASE (T=12")	1–3/4" ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG64–22	1-3/4" ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG70-22 (FR)	1-1/2" ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG64-22	1–1/2" ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70–22 (FR)	2" ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70-22 (FR)	JOINT SEALER	TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN (0.06 GAL./S.Y.)	TACK COAT, AS PER PLAN (0.075 GAL./S.Y.)	ROLLER COMPACTED CONCRETE (SHOULDER T=9")	12" BITUMINOUS AGGREGATE BASE, PG 64-22 (ALTERNATE BID)	8" BITUMINOUS AGGREGATE BASE, PG 64-22 SHOULDER) (ALTERNATE BID	AGGREGATE DRAIN, AS PER PLAN	ASPHALT PAVEMENT REINFORCEMENT	SONIC NAP ALERT PATTERN (SNAP)
			FT.	FT.	FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. YD.	CU. YD.	SQ. YD.	FT. S	SQ. YD.	SQ. YD.	₹cu.	YD. CU.	. YD. (CU. YD.	SQ. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	FT.	GAL.	GAL.	SQ. YD.	CU. YD.	CU. YD.	CU. YD.	SQ. YD.	. MILE
	RIGH	HT TWC	LANES A	AND OUT	SIDE SHO	OULDER									3																		
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ADDENDUM NO. 1
NO. REVISIONS CH 1/28/13
BY DATE

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PAVEMENT CALCULATIONS

CONTRACT 39-13-01 SHEET 116 OF 253

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LANE AND WISE SHOULDER AT APPROXEM \$\$85 (CHIN LET)		94+19.49 '15+63.18	51+17.59 77+32.91 80+68.16	1+16.84	+60.86 +96.36	+35.49	+24.06 +82.06	+36.41		+14.66 +96.25	-72.30 -54.10	91.33	+2.22	20.82 42.22	49.58 49.58	-64.64	+20.45 +35.61	+14.38 +14.38		THIRD	NOTATA OF NOTATA	
Color Colo	SU	714+04.99 LT. 727+98.58 LT.	669+02.99 LT. 680+68.16 LT. 681+26.16 LT.	644+74.84 LT.	629+96.36 LT. 630+64.36 LT.	618+00.49 LT. 618+58.49 LT.	591+82.06 LT. 595+54.96 LT.	578+36.41 LT. 579+04.41 LT. 581+14.81 LT.	535+66.99 LT.	493+75.06 LT. 517+54.25 LT.	468+36.48 LT. 488+54.66 LT.	447+61.88 LT.		713+57.25 LT. 715+79.95 LT.	651+74.78 LT. 651+74.78 LT.	537+57.67 LT. 649+90.38 LT. 649+90.38 LT.	535+42.51 LT. 537+57.67 LT.	471+57.34 LT. 471+57.34 LT.	468+69.42 LT. 468+69.42 LT	LANE AND INSIDE	SIDE	
THE PROPERTY OF THE PARTY OF TH	IBTOTALS	1985.50 1235.40	1785.40 335.25 58.00	58.00	35.50 68.00	65.00 58.00	58.00 372.90	68.00	835.50	460.40 58.00	1664.18 1800.56	570.55	OULDER A								LENGTH	
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String S																					SLAB	∢
9-70 W																						
Solution	108282												49	35 29	30	25	29 24	49 38		SQ. YD.	PAVEMENT REMOVED	
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11 15 15 15 15 15 15 15	954																			SQ. YD.	SUBGRADE COMPACTION	
1	28758												14	14 12	14	12	14 12	12 14		FT. S	DEPTH PA SAWING	
Sign	3980			+																Q. YD.	ASPHALT CONCRETE (T=5"+/-)	
Col. 7p Col.	122																			SQ. YD.	PAVEMENT PLANING, ASPHALT CONCRETE (T=2"+/-)	
Col. The Col. The Col. Col. Col. Col. Col. Col. The Col.								}											\			} :
00. 10. 00. 70. 80. 70. 00. 0	6751	46 28	41 8	2	1 3	1 2	2 9	3	19	11	38 42	13	12		8		7		14	CU. YD.	9" AGGREGATE BASE (SHOULDER)	1
Out Su You Cou You	16629															5			6	CU. YD.	1	
SQL NO	318																			CU. YD.	AGGREGATE	
COL VI)	85518															25			31	SQ. YD.	BASE	
CU. YD. CU.	1236	9 6	2	0	0	0	0 2	0	4	2	7 8	3	Ζ				· · · · · · · · · · · · · · · · · · ·		.3	CU. YD.	1–3/4" ASPHALT CONCRE BASE COURSE OR RECYCLI ASPHALT CONCRETE BASI COURSE, PG64–22	2 0
CU. YD. CU. YD. CU. YD. FT. GAL. GAL. GAL. GAL. GAL. GAL. GAL. CU. YD. CU. YD. CU. YD. CU. YD. SQ. YD. Maximum	4351															1			1	CU. YD.	1–3/4" ASPHALT CONCRE BASE COURSE OR RECYCLI ASPHALT CONCRETE BASI COURSE, PG70–22 (FR)	#요
CU. YD. SQ. YD. Maximum Cu. YD. SQ. YD. YD. SQ. YD. YD. SQ. YD. YD. YD. YD. YD. YD. YD. YD. YD. YD	1059	8 5	1	0	0	0	0	0	3	2	6 7	2	2		1		1	_	2	CU. YD.	1-1/2" ASPHALT CONCRE' SURFACE COURSE, USING CRUSHED STONE, PG64-2	본 건
Hard	3729															1			1	-	1–1/2" ASPHALT CONCRESURFACE COURSE, USING CRUSHED SLAG, PG70–27 (FR)	世。云
No.	7																				2" ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70-2; (FR)	(,)
Section Sect	28653																			FT.		
A	6657	11 7	2	0	0	0	2	0	5	3	9	3	3	2 2	2	2	2	3			I (A	s C
SQ. YD. CU. YD. CU. YD. CU. YD. SQ. YD. Market Sq. Ma	8330	14 9	2	0	0	0	0 3	0	6	3	12 12	4	4	3 2	2 2	2	2 2	4 3		GAL.	PER PL/ /S.Y.)	z
CU. YD. CU. YD. CU. YD. SQ. YD. N 10 13 16 8 9 6 8 7 8 8 10 7 14 8 8 10 11 11 11 11 17 17 22 43 41 41 41 41 41 41 41 41 41 41 41 41 41	25949	183 114	31	-3	3 -4	6 -3	-3 34	-4	77	42	153 166	53	49						57	SQ. YD.	ROLLER COMPACTED CONCRETE (SHOULDER T=9")	
B B C CU. YD. CU. YD. SQ. YD. M B B C C C C C C C C C C C C C C C C C	28506															8			10	CU. YD.	BITUMINOUS AGGREG BASE, PG 64-22 (ALTERNATE BID)	12
O O O O O O O O O O O O O O O O O O O	5766 5	41 25	7	-1	1 -1	1 -1	-1 8	-1	17	9	34 37	12			7	·			1.3	CU. YD. CU	8" BITUMINOUS AGGREGAT BASE, PG 64–22 SHOULDER) (ALTERNATE B	р (С) г
YD. N	531 79																			J. YD. SQ.	GREGAIE DRAIN, AS PLAN ASPHAIT PAVEMENT	Y,
	959 :					_			_											. Y[REINFORCEMENT	

						254	SP404	SP404A	SP407
STATION TO	STATION	SIDE	LENGTH	PAVEMENT WIDTH	SURFACE AREA	PAVEMENT PLANING, ASPHALT CONCRETE (T=2")	2" ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70-22 (FR)	JOINT	TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN (0.06 GAL/S.Y.)
			FT.	FT.	SQ. FT.	SQ. YD.	CU. YD.	FT.	GAL.
471+36.34	535+41.18	RT	6404.84	24.00	153716	17080	949	6405	1025
537+31.19	547+62.49	RT	1031.30	24.00	24751	2750	153	1031	165
557+51.17	583+55.29	RT	2604.12	24.00	62499	6944	386	2604	417
585+24.00	649+94.57	RT	6470.57	24.00	155294	17255	959	6471	1035
651+54.13	713+41.50	RT	6187.37	24.00	148497	16500	917	6187	990
715+37.25	740+00.00	RT	2462.75	24.00	59106	6567	365	2463	394
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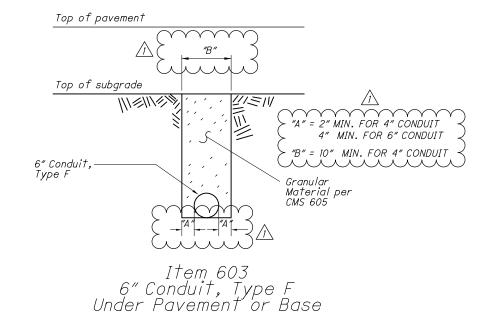
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NO.	REVISIONS		BY	DATE
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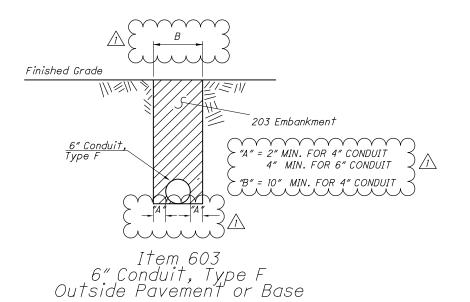
OHIO TURNPIKE COMMISSION

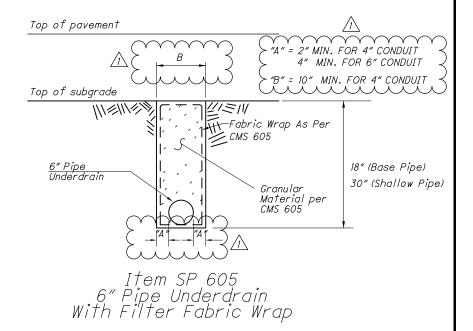
OHIO TURNPIKE WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PAVEMENT CALCULATIONS

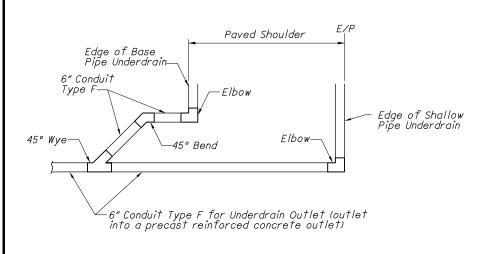
48	T G	PD GKO	UP.		
		, Pyle, Schomer, Burn		nic.	72-2100
520 South I	Main Street, Copyright:	Suite 2531, Akron, Gaus, Pyle, Schomer, Burns	Ohio 44311 8 & DeHaven, Inc.	Fax 330	572-2101
ESIGNED:	CLH	CHECKED:	PJF	DATE:	12/21/1:
RAWN:	PJF	IN CHARGE:	MRG	SCALE:	N/A

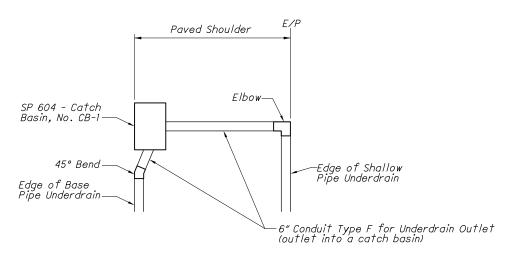
CONTRACT 39-13-01 SHEET **117** OF **253**

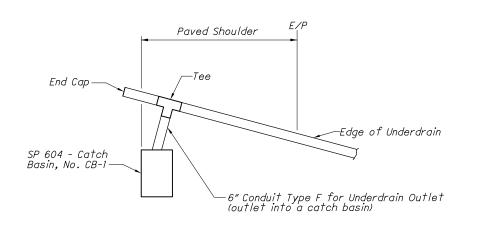












RIGID OR FLEXIBLE PAVEMENT

END OF RUN
PLAN

RIGID OR FLEXIBLE PAVEMENT END OF RUN - CONNECTION TO CATCH BASIN PLAN

RIGID OR FLEXIBLE PAVEMENT
PRESSURE RELIEF JOINT UNDERDRAINS CONNECTION TO CATCH BASIN
PLAN

NOTES

DESCRIPTION: This item shall consist of furnishing and installing a pipe underdrain system in accordance with the specifications and the details on the plans or as directed by the Chief Engineer.

MATERIALS: The underdrain shall be a pipe underdrain system or a prefabricated edge underdrain system meeting the requirements of CMS 605.

BASIS OF PAYMENT FOR PIPE UNDERDRAIN SYSTEM: and measured under this item shall be paid for at the contract unit price bid for Item SP605 - 6" Shallow Pipe Underdrain With Fabric Wrap. The price shall be full compensation for excavation and backfill; for furnishing materials, including materials for outlet fittings; and for all labor, tools, equipment and incidentals necessary to complete the work.



OHIO TURNPIKE WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION UNDERDRAIN DETAILS

520 South Main Street	PD GKOUP, , Pyle, Schomer, Burns & DeHaven, Suite 2531, Akron, Ohio 44311 Gaus, Pyle, Schomer, Burns & DeHaven, Inc.	Fax 330-572-2101
DESIGNED: PJF DRAWN: PJF	CHECKED: CLH IN CHARGE: MRG	DATE: 12/21/12 SCALE: NTS
CONTRACT 39	-13-01 SHEE	1700F253

Technician: chuff

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ITEM 621 - RAISED PAVEMENT MARKER REMOVED

RAISED PAVEMENT MARKERS SHALL BE REMOVED FROM THE OHIO TURNPIKE ON THE WESTBOUND LANES WITHIN THE LIMITS OF THE MAINTENANCE OF TRAFFIC ZONE AS WELL AS FROM THE LANE LINE BETWEEN THE SECOND AND THIRD LANES IN THE EASTBOUND DIRECTION AS DIRECTED BY THE CHIEF ENGINEER. IN THE EASTBOUND DIRECTION THE CONTRACTOR SHALL ONLY REMOVE THE EXISTING REFLECTORS. THE EXISTING EASTBOUND REFLECTOR CASTINGS SHALL REMAIN IN PLACE.

^^^^

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE TRAFFIC CONTROL GENERAL SUMMARY TO BE USED THROUGHOUT THE PROJECT AS DIRECTED BY THE ENGINEER.

ITEM 621 - RAISED PAVEMENT MARKER REMOVED

<u>1650</u> EACH

ITEM 630 - SIGNING, MISC.: SIGN ERECTED, FLAT SHEET

THIS ITEM SHALL BE AS OUTLINED IN 630 EXCEPT THAT ALL SIGNS AND SUPPORTS TO BE INSTALLED SHALL BE PROVIDED BY THE OHIO TURNPIKE COMMISSION, THE CONTRACTOR SHALL CONTACT THE CHIEF ENGINEER TO ARRANGE FOR PICKUP OF THE SIGN AND POST MATERIALS FOR THE PROJECT. ALL SIGNS SHALL BE INSPECTED BY OHIO TURNPIKE COMMISSION STAFF IN THE PRESENCE OF THE CONTRACTOR PRIOR TO LOADING OF PROVIDED MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE TRANSPORTATION OF THE MATERIALS PROVIDED TO THE JOB SITE. UPON ARRIVAL AT THE JOB SITE, THE TRANSPORTED SIGNING MATERIALS SHALL BE INSPECTED BY OHIO TURNPIKE COMMISSION PERSONNEL TO ENSURE THAT NO DAMAGE OCCURRED DURING TRANSPORT. COSTS ASSOCIATED WITH THE PICK-UP OF THE SIGNS AND SUPPORTS, THE TRANSPORTATION TO THE PROJECT SITE AND ANY STORAGE COSTS UNTIL ERECTION SHALL BE CONSIDERED INCIDENTAL TO THE ITEM NECESSITATING THE WORK. THIS ITEM SHALL INCIDUDE ALL LABOR AND MATERIAL COSTS NECESSARY TO INSTALL THE SIGNS AS SHOWN IN THE PLANS.

ALL COSTS ASSOCIATED WITH THIS ITEM SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 630 — SIGNING, MISC.: SIGN ERECTED, FLAT SHEET, EACH.

ITEM 630 - SIGNING MISC.: SIGN ERECTED, OVERHEAD EXTRUSHEET

THIS ITEM SHALL BE AS OUTLINED IN ITEM 630 EXCEPT THAT ALL OVERHEAD EXTRUSHEET SIGNS TO BE REPLACED AS A PART OF THE PROJECT WILL BE PROVIDED BY THE OHIO TURNPIKE COMMISSION. THE CONTRACTOR SHALL CONTACT THE CHIEF ENGINEER TO ARRANGE FOR A PICK-UP OF THE OVERHEAD SIGNS. ALL OVERHEAD SIGNS PROVIDED SHALL BE INSPECTED BY OHIO TURNPIKE COMMISSION STAFF IN THE PRESENCE OF THE CONTRACTOR PRIOR TO LOADING OF THE PROVIDED MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE TRANSPORTATION OF THE MATERIALS PROVIDED TO THE JOB SITE. UPON ARRIVAL AT THE JOB SITE, THE TRANSPORTED SIGNING MATERIALS SHALL BE INSPECTED BY OHIO TURNPIKE COMMISSION PERSONNEL TO ENSURE THAT NO DAMAGE OCCURRED DURING TRANSPORT. COSTS ASSOCIATED WITH THE PICK-UP OF THE SIGNS AND SUPPORTS, THE TRANSPORTATION TO THE PROJECT SITE AND ANY STORAGE COSTS UNTIL ERECTION SHALL BE CONSIDERED INCIDENTAL TO THE ITEM NECESSITATING THE WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXISTING CLEARANCE BETWEEN BETWEEN THE LANES OF THE OHIO TURNPIKE AND THE EXISTING OVERHEAD SIGN SUPPORTS. ALL NEW SIGNS SHALL BE INSTALLED SUCH THAT A MINIMUM VERTICAL CLEARANCE OF 17' IS PROVIDED ONCE THE SIGN IN INSTALLED.

THIS ITEM SHALL INCLUDE ALL LABOR AND MATERIAL COSTS NECESSARY TO INSTALL THE OVERHEAD SIGNS AS SHOWN IN THE PLANS, AND SHALL INCLUDE BUT NOT BE LIMITED TO ALL LABOR, TEMPORARY TRAFFIC CONTROL, SIGN BACKING ASSEMBLIES, AND HARDWARE NECESSARY TO INSTALL THE SIGNS TO THE EXISTING SIGN TRUSSES AND CANTILEVERS.

ALL COSTS ASSOCIATED WITH THIS ITEM SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 630- SIGNING, MISC.: SIGN ERECTED, OVERHEAD EXTRUSHEET, EACH.

SP 802 - BARRIER REFLECTORS

FOLLOWING COMPLETION OF THE PROJECT, NEW BARRIER REFLECTORS SHALL BE INSTALLED ON THE EXISTING MEDIAN WALL FROM THE BEGINNING OF PROJECT AT MILE POST (MP) 90.0 (STA. 430+00) TO THE END OF THE PROJECT AT MILE POST (MP) 95.9 (STA. 740+00). BARRIER REFLECTOR SPACING SHALL CONFORM TO SP 802. MATERIAL SPECIFICATIONS SHALL CONFORM TO SP 802.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE TRAFFIC CONTROL GENERAL SUMMARY FOR USE AS DIRECTED BY THE CHIEF ENGINEER:

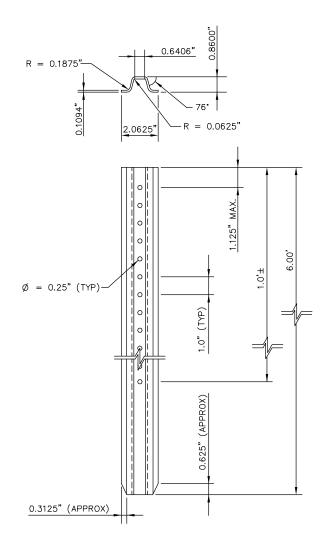
SP 802 - BARRIER REFLECTOR, TYPE B

650 EACH

ITEM 620 - DELINEATOR, POST MOUNTED, AS PER PLAN

THIS ITEM SHALL BE IN ACCORDANCE WITH ITEM 620 WITH THE FOLLOWING CHANGES:

THE POST FOR THIS ITEM SHALL BE STEEL DRIVE POST. THE POST SHALL BE 6 FEET IN LENGTH WITH A TAPERED BOTTOM EDGE. THE BACKSIDE OF THE POST MAY HAVE LONGITUDINAL RIBS OR MAY BE FLAT AND SHALL HAVE A SMOOTH UNIFORM FINISH. THE NOMINAL WEIGHT OF THE POST SHALL BE 1.12 LBS. PER FOOT. THE POLES SHALL HAVE 12 HOLES, PUNCHES OR DRILLED AT A DIAMETER OF 1/4 INCH, LOCATED 1 INCH ON CENTER STARTING 1-1/8 INCH FROM THE TOP OF THE POST AND ENDING A DISTANCE OF APPROXIMATELY 1 FOOT BELOW TOP OF THE POST. THE STEEL POSTS SHALL BE GALVANIZED, AFTER THE HOLES HAVE BEEN INSTALLED, IN ACCORDANCE WITH ASTM A123. FOR ADDITIONAL INFORMATION REGARDING THE POST, SEE DRIVE POST DETAIL BELOW.



STEEL FRIVE POST DETAIL FOR FLEXIBLE DELINEATORS

N.T.S.

<u> </u>	AKF	1/28/13										
NO. REVISIONS BY DATE												
OHIO TUF	RNPIKE	COM	IMIS	SION								
TRAFFIC CONTROL NOTES												
520 South Main Street	PD GROU , Pyle, Schomer, Burns & I Suite 2531, Akron, Ohi Gaux, Pyle, Schomer, Burns & D	DeHaven, Inc.	330-572 Fax 330-572									
DESIGNED: <u>ADG</u> DRAWN: <u>ADG</u>	CHECKED: L IN CHARGE: M		ATE:1, CALE:	/4/2013 N.T.S.								

CONTRACT 39-13-01 SHEET 171 OF 253

Drawing File: O:\2012\2012161\traffic\Sheets\2012161TN001.dwg Layout: TN001

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		SHEET NUMBER												ITEM	GRAND	T	SEE		
	171	173	174	175	176	177	178	179	179A	180	181	182	182A	183	ITEM	EXT.	TOTAL	UNIT	DESCRIPTION SHEE NO.
		4	17	25	11	19	23	18							620	00501	117	EACH	DELINEATOR, POST MOUNTED, AS PER PLAN 171
\wedge		4	17	25	11	19	23	18							620	31200	117	EACH	REMOVAL OF DELINEATOR
<u> </u>	1,650				~~~~					$\sim\sim$	~~~		~~~	$\sim\sim$	621	54000	1,650	EACH	RAISED PAVEMENT MARKER REMOVED
\bigcup	1,030				~~~~											34000	1,030		
		164	94	82	76	86	104	132	108						SP626		846	EACH	REPLACEMENT PRISMATIC RETRO REFLECTOR (WHITE)
		24	94	148	76	86	104	92							SP626		624	EACH	RAISED PAVEMENT MARKER STIMSONITE MODEL 101LPCR
_										58	48				630	03100	106	FT	GROUND MOUNTED SUPPORT, NO. 3 POST
0										31	27				630	04100	58	FT	GROUND MOUNTED SUPPORT, NO. 4 POST
l											1				630	08200	1	EACH	GROUND MOUNTED SUPPORT, PIPE
											2				630	08600	2	EACH	SIGN POST REFLECTOR
ŀ											1				630	09050	1	EACH	TRIANGULAR SLIP BASE CONNECTION
ŀ										67	88				630	80100	155	SQ FT	SIGN, FLAT SHEET
										8	7	10	3		630	84900	28	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
										6	10	10	3		630	86002	29	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
										10	6	4			630 630	87400 87500	20	EACH EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL
0															0.50	87300	l	LACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL
· ·										8	7	18	6		630	97700	39	EACH	SIGNING, MISC.: SIGN ERECTED, FLAT SHEET 171
										10	6	4			630	97700	20	EACH	SIGNING, MISC.: SIGN ERECTED, OVERHEAD EXTRUSHEET 171
														0	631	04200	8	FACIL	REMOVAL OF LUMINAIRE AND DISPOSAL
ŀ														8 2	631	94200	2	EACH EACH	REMOVAL OF DISCONNECT SWITCH AND DISPOSAL
														8	631	94404	8	EACH	REMOVAL OF BALLAST AND DISPOSAL
I														4	631	94406	4	EACH	REMOVAL OF SIGNS WIRED
														4	631	94408	4	EACH	REMOVAL OF SIGN WIRING AND DISPOSAL
														4	631	94412	4	EACH	REMOVAL OF SIGN SERVICE AND DISPOSAL
		7.00	7 70	7 77	0.05	7.00									2.10	20101			
ŀ		3.29 3.29	3.78 3.78	3.77 3.79	2.85 2.85	3.66 3.66	4.73 4.73	4.73 4.73	2.01						642 642	00104	28.82 28.84	MILE MILE	EDGE LINE, 6", TYPE 1 LANE LINE, 6", TYPE 1
· ·		5.29	3.70	1,028	2.00	3.00	4.75	4.75	2.01						642	00404	1,028	FT	CHANNELIZING LINE, 12", TYPE 1
l				290											642	01510	290	FT	DOTTED LINE, 6", TYPE 1
	050														CDOO		650	FAOU	BARRIER REFLECTOR, TYPE B
	650														SP802		650	EACH	BARRIER REFLECTOR, TIPE B
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OHIO TURNPIKE COMMISSION

TRAFFIC CONTROL GENERAL SUMMARY

CONTRACT 39-13-01 SHEET **172** OF **253**