_													
	<u>CONSTRUCTION SPECIFICATIONS</u> THE STATE OF OHIO DEPARTMEN AND MATERIALS SPECIFICATIONS IN THE CONTRACT DOCUMENTS SI	AND THE SPECIAL PROVISIONS	DNSTRUCTION CONTAINED	<u>SLOPE DRAINS</u> THE FOLLOWING QUANTITIES, ARE INCLUDED AS CONTINGENCY, TO BE USED AS DIRECTED BY THE CHIEF ENGINEER TO REPLACE ANY DAMAGED, RUSTED, OR NON-FUNCTIONAL SLOPE DRAIN PIPES PER OTC STANDARD DRAWING CB-1. REMOVE AND REPLACE HEADWALLS AND ROCK CHANNEL PROTECTIONS WHERE NEW									
	<u>UTILITIES</u> LISTED BELOW ARE ALL UTILITIE			ITEM 603 - 12" CONDUIT, TYPE A <b>707.33</b> , AS PER PLAN 300 FT.	MINIM THE L AND N								
	CONSTRUCTION LIMITS TOGETHEN QUEST COMMUNICATIONS 4650 LAKEHURST COURT DUBLIN, OH 43016 ATTN: CHRISTOPHER STRAYER	BUCKEYE PIPELINE CO. 3321 YORK ST. OREGON, OH 43616	.RS. OHIO EDISON COMPANY 76 S. MAIN ST., 12TH FLOOR AKRON, OH 44308 (216) 384-7987	ITEM 603 - 15 CONDUIT, TYPE F, 707.33 ITEM 603 - 18" CONDUIT, TYPE F, 707.33 ITEM 601 - ROCK CHANNEL PROTECTION, TYPE A, WITH FABRIC FILTER 20 CU. YD. ITEM 601 - ROCK CHANNEL PROTECTION, TYPE A, WITH FABRIC FILTER 60 CU. YD.	IN THE THE F REGAL REQU								
	OFFICE PH: (303) 886-1299 HOME PH: (303) 383-8606 AMERITECH	5953 DEERING AVENUE	COLUMBIA GAS OF OHIO 7080 FRY ROAD	THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE CHIEF ENGINEER	A MAS TO CO THAN								
	130 NORTH ERIE, ROOM 308 TOLEDO, OH 43697 (419) 245-5420	PARMA HEIGHTS, OH 44130 BOB BOEHM	MIDDLEBURG HEIGHTS, OH 44130 DAN SUREN (440) 891–2428	ITEM 207 - TEMPORARY SEEDING AND MULCHING 1377 SQ. YD. ITEM 659 - COMMERCIAL FERTILIZER 0.3 TON	PA YME DESCF								
	CITY OF NORTH ROYALTON SERVICE DEPARTMENT 11545 ROYALTON ROAD NORTH ROYALTON, OH 44133	,	VERIZON BUSINESS FACILITY 12300 RIDGE ROAD NORTH ROYALTON, OH 44133 (440) 582-0970	<u>ITEM 207 – FILTER FABRIC FENCE</u> FILTER FABRIC SHALL MEET THE REQUIREMENTS OF ITEM 207.02.	<u>REVIE</u> BEFOF BY TH AN IN								
	KRIS KAMPS (440) 582-3002 CUYAHOGA COUNTY	AT&T	CLEVELAND ELECTRIC	ENDERSTING OF THE FERCE SHALL BE BORTED & BELOW THE GROUND. THE FERCE SHALL BE HIGH ENOUGH TO RETAIN SEDIMENT LADEN WATER AND ADEQUATELY SUPPORTED TO PREVENT COLLAPSE OR BURSTING. THE GROUND ELEVATION OF THE FENCE SHALL BE HELD CONSTANT EXCEPT THAT THE	MAY E THEIR OF TH								
	SANITARY ENGINEER 6100 WEST CANAL ROAD VALLEY VIEW, OH 44125 (216) 443-8208	3833 WEYMOUTH ROAD MEDINA, OH 44256 (330) 723-9110	ILLUMINATING COMPANY 10 ERIE ROAD EASTLAKE, OH 44095 (440) 953-7501	THE FILTER FABRIC SHALL BE MAINTAINED TO BE FUNCTIONAL. THIS SHALL INCLUDE REMOVAL OF TRAPPED SEDIMENT AND REQUIRED CLEANING, REPAIR AND/OR REPLACEMENT OF THE FILTER FABRIC.	ALL N THE F BEFOR								
	COX COMMUNICATIONS 12221 PLAZA DRIVE CLEVELAND, OH 44130		(440) 955-7507	THE COST OF ALL MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL REQUIRED SHALL BE PAID FOR UNDER ITEM 207 LIN. FT. FILTER FABRIC FENCE.	ALL E BE MA DETER FROM								
	(216) 535-3688 THE LOCATION OF THE UNDERGRO THE OWNERS AS REQUIRED BY SE		PLANS ARE AS OBTAINED FROM	<u>ITEM 201 - CLEARING AND GRUBBING</u> ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING, EXCEPT THOSE OTHERWISE DESIGNATED BY THE CHIEF ENGINEER. LANDOWNERS SHALL BE ALLOWED TO SALVAGE THE WOOD FROM TREES BEING REMOVED ON THEIR PROPERTY. TREES DESIGNATED AS BEING SALVAGED FOR WOOD, SHALL BE CUT									
crispint	<u>CONTINGENCY QUANTITIES</u> THE CONTRACTOR SHALL NOT OR PLAN NOTE TO BE USED "AS DIR ENGINEER. THE ACTUAL WORK LU INCORPORATED INTO THE FINAL	ECTED BY THE CHIEF ENGINEER" OCATIONS AND QUANTITIES USE	UNLESS AUTHORIZED BY THE CHIEF D FOR SUCH ITEMS SHALL BE	ABOVE THE BASE AND PLACED OUTSIDE OF THE RIGHT-OF-WAY. <u>CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES</u> WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES	<u>ITEM</u> ITEM ACCOR SPECI								
113 10:34:52 AM	<u>ELEVATION DATUM</u> ALL ELEVATIONS ARE BASED ON <u>WORK LIMITS</u> THE WORK LIMITS SHOWN ON THE INSTALLATION AND OPERATION (	SE PLANS ARE FOR PHYSICAL C DF ALL TEMPORARY TRAFFIC CO	NTROL AND TEMPORARY	IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE CHIEF ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS	IN LIE SPECI SPECI RECOM DATA CURIN MASOI SHALL								
gn 1/23/2(	TRAFFIC CONTROL DEVICES REQU CONTRACTOR WHETHER INSIDE OF <u>AS-BUILT PLANS</u> THE AS-BUILT PLANS FROM THE O REPLACEMENT AND OTHER MODIFI	R OUTSIDE THESE WORK LIMITS. ORIGINAL 1953 CONSTRUCTION,	3RD LANE WIDENING, DECK	IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE CHIEF ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.	THE C BARRI ACCOI SHALL D, AS								
SN001.dg	AND TURNPIKE SPECIFIC STANDAR COMMISSION OFFICE LOCATED AT TELEPHONE (440) 234-2081.	RD DRAWINGS MAY BE INSPECTED	) IN THE OHIO TURNPIKE	PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.									
P165-170 EB\roadway\sheets\C	PROJECT SURVEY ELEVATIONS SHOWN ON PLAN AND (DIRECTION OF TRAFFIC) AND DEI COLLECTED IN THE FIELD. CONTH EDGE OF EXISTING PAVEMENT AN RATES ARE MET AS SHOWN ON TH ELEVATIONS AND CROSS SLOPES BETWEEN EXISTING PAVEMENT AN <u>PROJECT BASELINE</u> THE CONTRACTOR SHALL SURVEY BASELINE) AND SHALL ESTABLISH BASELINE FOR CONSTRUCTION LA	RIVED FROM EXISTING THIRD LA RACTOR SHALL CONSTRUCT PRO D INSURE DESIGN CROSS SLOPE HE PLANS. IN ADDITION, CONTH AS NECESSARY TO INSURE NO N D NEW PAVEMENT. THE CENTERLINE OF TURNPIKE THE PROJECT BASELINE IN THE	NE DESIGN PLANS AND DATA POSED PAVEMENT TO MATCH S AND SUPERELEVATIONS RACTOR SHALL VERIFY WATER PONDING WILL OCCUR (RE-ESTABLISHED SURVEY E FIELD AND USE THIS	ITEM 203 - EXCAVATION THIS ITEM INCLUDES EXCAVATING THE EXISTING GRANULAR BASE UNDER THE CENTER AND RIGHT EASTBOUND LANES, APPROACH SLABS, FULL DEPTH EXCAVATION OF THE EXISTING EASTBOUND RIGHT SHOULDER AFTER MILLING ASPHALT OVERLAY AND TRENCH EXCAVATION FOR AGGREGATE DRAIN. EXISTING GRANULAR BASE	EXCEF EXIST ALL E SAW C UTE COU COD LAE GRO								
012\N-12-007 OTC M	THE RIGHT EDGE OF THE THIRD L. THE CONTRACTOR SHALL USE PO 100 FEET ON CURVES, OR USE O TO FIND AND VERIFY THE LOCATI ESTABLISHED PROJECT BASELINE <u>GUARDRAIL REPLACEMENT</u> NO HAZARD SHALL BE LEFT UNPR REMOVE THE EXISTING GUARDRAI	ANE BASE PAVEMENT JOINT OF THOLING AT EVERY 500 FEET O THER METHODS AS APPROVED BY ION OF THIS JOINT. CONTRACTO TO OTC FOR REVIEW AND APPR	THE EASTBOUND LANES. N TANGENTS AND EVERY Y THE CHIEF ENGINEER, OR SHALL SUBMIT THE ROVAL. TUAL TIME NECESSARY TO	MAINLINE GRANULAR BASE REMOVAL       [(24,610 X 24' X (5.25"/12)]/27 = 9,578       CU.         SHOULDER EXCAVATION - WITH AND WITHOUT GUARDRAIL       [(7,949 X 11' X (15.25"/12)]/27 = 9,340       CU.         SHOULDER EXCAVATION - WITH BARRIER WALL       [17,949 X 11' X (15.25"/12)]/27 = 3,300       CU.         SHOULDER EXCAVATION - WITH BARRIER WALL       [17,949 X 11' X (15.25"/12)]/27 = 3,300       CU.         SHOULDER EXCAVATION - WITH GUARDRAIL AND ASPHALT CURB       [17,949 X 11' X (15.25"/12)]/27 = 542       CU.         APPROACH SLAB GRANULAR BASE REMOVAL       [19529 SF X (15.25"/12)]/27 = 176       CU.         TRENCH FOR AGGREGATE DRAIN       [19529 SF X (0"/12)]/27 = 119       CU.         COMPACTED AGG. OR STONE SHOULDER PROTECTION       [12,350 X 4.00' X 0.25')/27 = 467       CU.         ITEM 203 EXCAVATION       23,522       CU.	YD. YD. YD. YD. YD. YD.								
3:∖projects∖20	IN A CONTINUOUS OPERATION. AS DIRECTED BY THE CHIEF ENGI REPLACEMENT MATERIAL IS ON T WITH THIS REQUIREMENT SHALL E SUSPENDED UNTIL SUCH TIME AS	THE REMOVAL OF ALL GUARDRA NEER. NO GUARDRAIL SHALL BE HE SITE, READY FOR INSTALLA BE DEEMED SUFFICIENT CAUSE T	IL SHALL AT ALL TIMES BE E REMOVED UNTIL THE TION. FAILURE TO COMPLY "O ORDER WORK	<u>ITEM 603 - 12" CONDUIT, TYPE F, 707.33, AS PER PLAN</u> THIS ITEM OF WORK SHALL CONSIST OF INSTALLING A NEW SLOPE DRAIN INACCORDANCE WITH OTC STANDARD DRAWING CB-1 AND THE REMOVAL AND DISPOSAL OF EXISTING CONDUIT SHALL BE INCLUDED IN THE COST PER FOOT OF ITEM 603 - 12" CONDUIT, TYPE F, 707.33, AS PER PLAN.									

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<u>TE CONNECTIONS TO CORRUGATED METAL STRUCTURES</u> NNECTIONS OF PROPOSED LONGITUDINAL DRAINAGE TO CORRUGATED METAL RUCTURES SHALL BE MADE BY MEANS OF A SHOP FABRICATED OR FIELD WELDED STUB THE STRUCTURE. THE STUB SHALL MEET THE REQUIREMENTS OF 707 AND HAVE A IMUM LENGTH OF TWO FEET AND A MINIMUM WALL THICKNESS OF 0.064 INCHES.

LOCATION AND ELEVATION OF THE STUB ARE TO BE CONSIDERED APPROXIMATE MAY BE ADJUSTED BY THE CHIEF ENGINEER TO AVOID CUTTING THROUGH JOINTS THE STRUCTURE.

E FIELD WELDED JOINT, IF USED, SHALL BE THOROUGHLY CLEANED AND GALVANIZED OR OTHERWISE SUITABLE REPAIRED. WELDING SHALL MEET THE QUIREMENTS OF 513.21.

MASONRY COLLAR, AS PER STANDARD DRAWING, DM-1.1, WILL BE REQUIRED CONNECT THE LONGITUDINAL DRAINAGE TO THE STUB, WHEN PIPE OTHER AN CORRUGATED METAL IS PROVIDED FOR THE LONGITUDINAL DRAINAGE.

YMENT FOR CUTTING INTO THE STRUCTURE AND PROVIDING THE CONNECTION SCRIBED, SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 603.

# IEW OF DRAINAGE FACILITIES

ORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE THE OTC, REPRESENTATIVES OF THE OTC AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH & BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THE APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS THE INSPECTION SHALL BE KEPT IN WRITING BY THE OTC REPRESENTATIVE.

NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS PART OF PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION ORE THE PROJECT WILL BE ACCEPTED BY THE OHIO TURNPIKE COMMISSION.

. EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT TERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING DM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO E SATISFACTION OF THE CHIEF ENGINEER.

MENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.

<u>M 622 - CONCRETE BARRIER, TYPE D, AS PER PLAN</u> M 622 - CONCRETE BARRIER, TYPE D, AS PER PLAN SHALL BE CONSTRUCTED IN CORDANCE WITH OTC STANDARD DRAWING CBR-3, AND SECTION 622 OF THE CIFICATIONS.

LIEU OF THE CURING COMPOUNDS SPECIFIED IN SECTION 622.07 OF THE ECIFICATIONS, THE CONCRETE BARRIER SHALL BE CURED USING THE MATERIAL ECIFIED IN SP 536A. THE SP 536A MATERIAL APPLICATION SHALL BE AS PER THE COMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL SUBMIT TECHNICAL TA FOR THE SP 536A MATERIAL TO THE ENGINEER FOR APPROVAL. THE COST OF RING THE WALL AND BARRIER SHALL BE INCLUDED IN THE BID PRICE FOR SP 536A, SONRY COATING. ALL OTHER PROVISIONS OF SECTION 622 OF THE SPECIFICATIONS WILL APPLY.

COST OF THE BARRIER TRANSITION SHALL BE INCIDENTAL TO ITEM 622 - CONCRETE RIER, TYPE D. AS PER PLAN, THE BARRIER TRANSITION SHALL BE CONSTRUCTED IN CORDANCE WITH STANDARD DRAWING CBR-6. PAYMENT FOR ALL MATERIALS AND LABOR ILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 622 - CONCRETE BARRIER, TYPE AS PER PLAN.

DIMENSIONS SHOWN ON STD. DWG. CBR-3 FOR TYPE D BARRIER SHALL APPLY CEPT THAT THE FOOTING DEPTH SHALL BE 11.25 INCHES.

## STING UNDERDRAINS

EXISTING UNDERDRAINS ENCOUNTERED IN THE THIRD LANE AND AT THE PAVEMENT CUT LOCATION SHALL NOT BE DISTURBED.

 TEM 603 - GROUTING VOIDS AROUND CORRUGATED METAL PIPES

 CONTRACTOR SHALL USE A LOW STRENGTH MORTAR BACKFILL IN ACCORDANCE WITH

 DOT CMS 613 TO FILL THE VOIDS IN THE PIPE. PAYMENT FOR ALL MATERIALS AND

 ABOR TO FILL THE VOIDS SHALL BE PAID AT THE UNIT PRICE BID FOR ITEM 603 

 SROUTING VOIDS AROUND CORRUGATED METAL PIPES.

 ADDENDUM NO. 3

 C I 1/22

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 REVISIONS

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DESIGNED: <u>CT</u> DRAWN: <u>CT</u>	CHECKED: <u>SSK</u> IN CHARGE: <u>SSK</u>	DATE: _1 SCALE:	2/19/ N//	
CONTRACT 39	-13-02 Sł	HEET 10	) OF <sup>.</sup>	165

# <u> ITEM 407 – TACK COAT, TRACKLESS TACK, AS PER PLAN</u>

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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:

PARAMETER SAYBOLT FUROL VISCOSITY, SFS @ 25C STORAGE STABILITY, 24 HRS, % STORAGE STABILITY, 5 DAYS, % RESIDUE BY DISTILLATION, % OIL DISTILLATE, % SIEVE TEST, %	<u>TEST_ME</u> AASHTO AASHTO AASHTO AASHTO AASHTO AASHTO	T59 T59 T59 T5950 T5950	<u>MIN.</u> 15    	<u>MAX.</u> 100 1 5 1 0.30
TEST ON RESIDUE: PENETRATION, @ 25C SOFTENING POINT RANGE DEG C SOLUBILITY,X ORIGINAL BINDER DSR@82C G*/SIN ,,10 RAD/SEC	AASHTO AASHTO AASHTO AASHTO	T53 T44	 65 97.5 1.00	20  

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 \*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 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 ACCCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET AND OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING BP-2.3 (07-16-04)

PRESSURE RELIEF JOINT LOCATIONS WILL BE FIELD LOCATED BY THE CHIEF ENGINEER APPROXIMATE LOCATIONS FOR EASTBOUND LANES ARE AS FOLLOWS: STA. 639+65 AND STA. 641+41

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY: ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A	175 FT.
ITEM SP605 - 6″ SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP ITEM 603 - 6″ CONDUIT TYPE F, NON-PERFORATED ASTM D3034 (SDR 35) 707.42 OR 707.33	175 FT. 34 FT.
	)
> <u>ITEM 601 - PAVED GUTTER, MISC.: GUTTER BROKEN IN PLACE</u>	$\leq$
THIS ITEM INCLUDES BREAKING UP THE PAVED GUTTER CONCRETE IN PLACE TO BE USED AS ROCK CHANNEL PROTECTION. THE CONTRACTOR SHALL REMOVE THE BROKEN CONCRETE FROM THE CHANNEL, EXCAVATE BOTTOM OF THE CHANNEL 2 FEET AND PLACE FABRIC FILTER AT THE EXCAVATED BOTTOM. THE CONTRACTOR SHALL PLACE THE BROKEN CONCRETE IN THE CHANNEL IN CONJUNCTION WITH ROCK CHANNEL PROTECTION PROVIDED IN THE PLANS. THE CHANNEL SHALL BE 16 FEET WIDE WITH 8 FOOT BOTTOM AND 4 FOOT WIDE SIDES AT 4:1 SLOPE OR MATCH EXISTING GROUND. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE CHANNEL.	
SLOPE EROSION PROTECTION	ノ

FOR INDICATED SLOPE EROSION AREAS, REMOVE TOPSOIL FROM THE EXTENTS OF THE INDICATED AREA AND REMOVE SOIL DOWN TO THE LOWEST EXPOSED DEPTH IN THE EROSION AREA OR 12 INCHES, WHICHEVER IS GREATER. REMOVE ALL ROCKS, GRAVEL, AND COBBLES AND FOREIGN MATERIAL THE OR GREATER FROM THE SLOPE EROSION AREA

# <u>SLOPE EROSION PROTECTION CONTINUED</u>

PLACE AND COMPACT BACKFILL TO MATCH THE ADJACENT SLOPE AND PLACE 4 INCHES OF TOPSOIL TO MEET EXISTING SLOPE GRADES AT ALL EXTENTS OF THE INDICATED SLOPE. PLACE ITEM 671 - EROSION CONTROL MAT, TYPE B FROM THE TOP OF THE SLOPE DOWN TO THE LOWEST INDICATED EXTENT OF THE SLOPE EROSION CONTROL AREA. CONTINUE THE EROSION CONTROL MAT LATERALLY FIVE (5) FEET BEYOND THE SIDE EXTENTS OF THE SLOPE EROSION AREA. FOR AREAS ADJACENT TO PROPOSED CONCRETE BARRIER, THE TOP OF SLOPE MAT SHALL START AT THE OUTSIDE FACE OF THE BARRIER. FOR ALL OTHER AREAS, THE TOP OF SLOPE MAT SHALL START AT THE EDGE OF SHOULDER COMPACTED AGGREGATE BEHIND THE GUARDRAIL.

ITEM 203 – EXCAVATION	1500 CU.YD.
ITEM 203 - BORROW	1000 CU.YD.
ITEM 659 - TOPSOIL	380 CU.YD.
ITEM 659 - WATER	10 M. GAL.
ITEM 671 - EROSION CONTROL MAT, TYPE B	4550 SQ.YD.

#### ITEM 209 - DITCH CLEANOUT

LOCATIONS ARE MARKED ON THE PLANS THAT WILL REQUIRE DITCH CLEANING AND REGRADING OF THE EXISTING DITCH. THE DITCH IN THESE LOCATIONS WILL REGRADED TO PROVIDE POSITIVE DRAINAGE THROUGH THE LIMITS OF THE DITCH CLEANING AREA. THE AREAS WILL BE SEEDED AND MULCHED AFTER THE REGRADING OF THE DITCH IS APPROVED BY THE RESIDENT ENGINEER. DITCH CLEANING IS REQUIRED BUT NOT LIMITED TO THE FOLLOWING LOCATIONS: STA. 613+00 TO STA. 618+00, STA. 638+90 TO STA. 640+15, STA. 681+00 TO STA. 683+85, STA. 704+25 TO STA. 707+25, STA. 708+25 TO STA. 709+50, STA. 736+50 TO STA. 737+50, STA. 738+50 TO STA. 739+50, STA . 781+00 TO STA. 799+00, STA. 851+00 TO STA. 851+90, STA. 853+25 TO STA. 854+15 AND AS DIRECTED BY THE CHIEF ENGINEER. THE COST OF THE LABOR, MATERIALS AND EQUIPMENT TO COMPLETE THIS WORK WILL BE PAID UNDER ITEM 209 - DITCH CLEANOUT. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED TO BE USED AS DIRECTED BY THE CHIEF ENGINEER FOR DITCH CLEANOUT:

ITEM 209 - DITCH CLEANOUT 3200 FT.

## ITEM 202 - SPECIAL PIPE CLEANOUT

LOCATIONS ARE MARKED ON THE PLANS THAT WILL REQUIRE PIPE CLEANING OF THE EXISTING CONDUITS. THE PIPE IN THESE LOCATIONS WILL CLEANED OF ALL DEBRIS LOCATED WITHIN THE PIPE STRUCTURE. PIPE CLEANING IS REQUIRED BUT NOT LIMITED TO 18" PIPE BETWEEN STA. 851+85 TO STA. 853+20., STA. 737+50 TO STA. 738+50, AND AS DIRECTED BY THE RESIDENT ENGINEER. THE COST OF THE LABOR, MATERIALS AND EQUIPMENT TO COMPLETE THIS WORK WILL BE PAID UNDER ITEM 202 - SPECIAL PIPE CLEANOUT. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED TO BE USED AS DIRECTED BY THE CHIEF ENGINEER FOR CLEANOUT.

ITEM 202 - SPECIAL PIPE CLEANOUT 235 FT.

#### ITEM SPECIAL - CULVERT CLEANOUT, TWIN 6' X 12' BOX

THIS ITEM OF WORK SHALL CONSIST OF REMOVING ALL SEDIMENTS, DEBRIS, AND OTHER FOREIGN MATERIALS FROM INSIDE AND OUTSIDE OF THE EXISTING TWIN 6' (H) BY 12' (W) BOX CULVERTS AND REESTABLISH THE CHANNEL FLOW LINE 40 FEET ON EITHER SIDE OF THIS CULVERT. THE REMOVAL OPERATION SHALL NOT BE DESTRUCTIVE TO THE INTEGRITY OF THE CULVERT. THE CONTRACTOR SHALL SUBMIT A CLEANOUT PROCEDURE TO THE CHIEF ENGINEER FOR APPROVAL PRIOR TO PERFORMING THE WORK. THE CONTRACTOR SHALL REESTABLISH THE CHANNEL FLOW LINE WITHIN THE LIMITS OF WORK. ALL REMOVAL MATERIALS SHALL BE REMOVED OFF-SITE IN ACCORDANCE WITH ITEM SP 105. ANY DEWATERING WORK REQUIRED TO COMPLETE THIS WORK SHALL BE INCLUDED UNDER THIS PAY ITEM. PAYMENT FOR CULVERT AND CHANNEL CLEANOUT WILL BE PAID AT THE LUMP SUM PRICE BID FOR ITEM SPECIAL - CULVERT CLEANOUT, TWIN 6' BY 12' BOX.

# CEMENT STABILIZATION 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 SPECIFICATIONS.

#### BOX CULVERTS WHERE DEPTH OF COVER IS GREATER THAN 4 FEET: CHEMICALLY STABILIZE ACCORDING TO PROJECT DOCUMENTS

## 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 2 FEET:

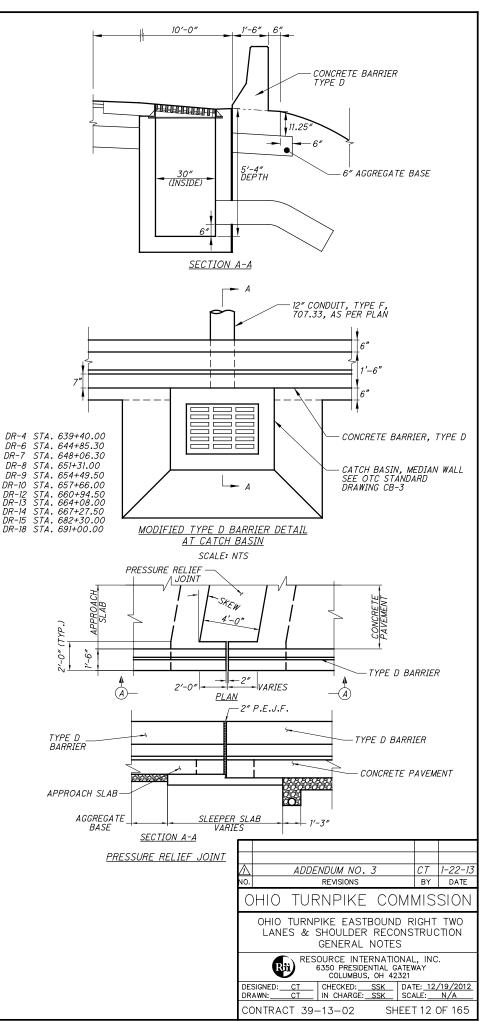
EXCAVATE 16 INCHES OF THE EXPOSED SOIL SUBGRADE FROM THE EDGE OF THE BOX CULVERT TO 20 FEET BEYOND THE END OF THE BOX CULVERT AND SPREAD THE EXCAVATED SOIL IN AN AREA TO BE CHEMICALLY STABILIZED. PERFORM CHEMICAL STABILIZATION ON THE EXCAVATED SOIL USING SAME REQUIREMENTS AS THE ADJACENT SUBGRADE. AFTER 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 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP, AS PER PLAN AND ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP, AS PER PLAN.

DR-4	STA.	63
DR-6	STA.	64
DR-7	STA.	648
DR-8	STA.	65
DR-9	STA.	65
DR-10	STA.	65
DR-12	STA.	66
DR-13	STA.	66
DR-14	STA.	66
DR-15	STA.	682



		UNIT	GRAND	ITEM								<b>VBER</b>	r nur	HEET	S							
		•••••	TOTAL		129	112	111	103	102A	71	70	69	68	67	66	19	16	15	14	12	11	10
G AND GRUBBING	CLEARING	LUMP	LUMP	201									<u> </u>									LUMP
ASIN REMOVED		EACH	10	202									10									
EMOVED	INLET RE	EACH	2	202				2							L							
AIL REMOVED AIL REMOVED FOR		FT FT	12732 1325	202 202									12732 1325									
ASSEMBLY REMOV	ANCHOR	EACH	2	202									2									
REMOVED	GUTTER I	SQ YD	5	202									5									
FLARED END SECT	REMOVE	EACH	2	202									2									
L REMOVED		EACH	4	202							µ]		4		<u> </u>							
TE BARRIER REMOV	CONCRET	FT	510	202									510									
MOVED, 24" AND U	PIPE REN	FT	700	202				700														
MOVED, OVER 24"	PIPE REN	FT	200	202								]	200		<u> </u>							
NT REMOVED L MISC.: SIGN FOU	PAVEMEN	SQ YD EACH	66276	202 202							66276		1		<u> </u>							
	EXCAVAT	CU YD	27789	202					2767						<u> </u>					1500		23522
		00 10		200																,000		
1ENT	EMBANKM	CU YD	2767	203				_	2767													
	BORROW	CU YD	(1200 )/1	203				<u>_/1\</u>	(200)		00175		<u>↓                                    </u>		<u> </u>					1000		
NT PLANING, ASPH. NT PLANING ASPHA	PAVEMEN	SQ YD SQ YD	96175 3364	254 254				3364			96175		<b>├</b> ──┤		<u> </u>							
Y COATING ASPHA Y COATING	MASONRY	SQ YD	7819	254 SP536A	3630			5504			ļ			4189	<sup> </sup>							
AIL, TYPE 5, USIN ASSEMBLY, TYPE	GUARDRA	EACH	7450 6	606 606									<b>├</b> ──┤	7450 6	<u> </u>							
ASSEMBLI, TIPE TERMINAL ASSEMBL	BRIDGE 1	EACH	5	606							ļ		<u>├</u>	5	<u> </u>							
TERMINAL ASSEMBL	BRIDGE 1	EACH	4	606										4								
ASSEMBLY, TYPE	ANCHOR .	EACH	7	SP606E										7								
CONCRETE CURB,	ASPHALT	FT	981	609										981								
TE BARRIER TYPE .	CONCRET	FT	5687	622										5687								
TE BARRIER, TYPE	CONCRET	FT	379	622				379														
E CONCRETE BARI	PORTABL	FT	152	622				152			ļļ	]	<b> </b>		ļ'							
, 4″ WITH 3 CELL		FT	379	SP625				379							'							
, 4″ WITH 4 CELL	CONDUIT	FT	379	SP625				379														
REFLECTOR, TYPE		EACH	115	626				_						115	[]							
REFLECTOR, TYPE	BARRIER	EACH	81	626				5					<b>├</b> ──┤	76								
ARY SEEDING AND		SQ YD	1377	207							ļ]				<u> </u>							1377
ROTECTION FABRIC DITCH CHE		FT FT	1440 2940	207 207						1440 2940	┝───┦		┝──┤		<sup> </sup>							
ADRIC DITCH CHE	DIKES	CU YD	847	207						<u> </u>			<u> </u>									
RAINS	SLOPE DI	FT	1178	207						1178												
ALYSIS TEST	SOTI AND	EACH	2	659									<b>├</b> ──┤								2	
	TOPSOIL	CU YD	2 3671	659					200				<u> </u>							380	 3091	
AND MULCHING		SQ YD	27846	659					200											500	27846	
SEEDING AND MULC	REPAIR S	SQ YD	1392	659																	1392	
EDING	INTER SE	SQ YD	1392	659									<b>—</b>		[]						1392	
CIAL FERTILIZER	COMMERC	TON	4.1	659																	3.8	0.3
	LIME	ACRE	5.8	659																	5.8	
	WATER	M GAL	175	659					6		ļļ		<b> </b>		<b></b> '					10	150	9
I CONTROL MAT, 1 I CONTROL		<u>SQ YD</u> LUMP	7125 LUMP	671 832					2575	LUMP			<u>├</u>		<u> </u>					4550		
	Encoston	LOM		002						LOW												
- PIPE CLEANOUT	SPECIAL	FT	235	202									<b>├</b> ──┤							235		
G CONCRETE STRU	PATCHIN	SQ FT	187	SP519									<u> </u>		187					200		
ANNEL PROTECTIC	ROCK CH	CU YD	78	601											18							60
ANNEL PROTECTIC	ROCK CH	CU YD	1 399.60 )											)	399.60							
ANNEL PROTECTIC	ROCK CH	CU YD	74.62	601						27					27.62							20
SUTTER, MISC.: GU		FT	1194	601											1194							
TE MASONRY	CONCRET	CU YD	5.26	602	0.15										1.11							4
- GROUTING VOID	SPECIAL	CU YD	2	603								]	<b> </b>		2							
ATED METAL PIPES UIT TYPE F, NON-	6" CONDI	FT	1442	603								1408	<u> </u>		<sup> </sup>					34		
3034 (SDR 35) 70	ASTM D		27771																			
											i		<u>├</u> ──┤		<sup> </sup>							
	1																					
											<del>ب</del>	·+	$\longmapsto$		<u> </u>							

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DESCRIPTION	REF. NO.	
ROADWAY		
	10	
RAGE		
OR STORAGE		
7		
TION REMOVED		
	10	
CONCRETE CONCRETE (VARIABLE DEPTH)		
STORETE TRANSAULE DEL TID		
EEL POST		
ISING STEEL POST TYPE 1, USING STEEL POST		
TYPE 2, USING STEEL POST T-2000 PLUS)		
64-22 STANDARD, TYPE 1 S PER PLAN	10	
0, AS PER PLAN 32″, AS PER PLAN	11 103	
ERDUCT, 725.05		
ERDUCT, 725.05		
EROSION CONTROL		
CHING		
<u>;</u>		
В		
	71	
DRAINAGE		
RE	12	
TYPE A, WITH FABRIC FILTER TYPE B, WITH FABRIC FILTER		
TYPE C, WITH FABRIC FILTER		
R BROKEN IN PLACE	ADDENDUM NO. 3	CT 1/22
ROUND	NO.] REVISIONS	BY DATE
FORATED	OHIO TURNPIKE CON OHIO TURNPIKE EASTBOUND F	
OR 707.33	LANES & SHOULDER RECON	STRUCTION
	GENERAL SUMMAR	AL, INC.
	6350 PRESIDENTIAL GATI COLUMBUS, OH 4232	EWAY 1
	DRAWN: <u>NLC</u> IN CHARGE: <u>SSK</u> S	ATE: <u>12/19/2012</u> CALE: <u>N/A</u>
	CONTRACT 39-13-02 SHEE	T 63 OF165

								SHEET	Γ Νυ	MBER	}			<u> </u>				ITEM	GRAND	UNIT		
10	11	12	14	15	16	19	66	67	68	69	70	71	102A	103	111	112	129		TOTAL		•	
																					12" CONDUIT, TYPE F>707.33, AS PEF	
<u> </u>							1353											603 603	1653 100	FT FT	12" CONDUIT, TYPE F≻707.33, AS PEF   15" CONDUIT, TYPE F, 707.33	
100							16											603	100	FT	18" CONDUIT, TYPE C	
150																		603	150	FT	18" CONDUIT, TYPE C 18" CONDUIT, TYPE F, 707.33	
							212											603	212	FT	30" CONDUIT, TYPE C	
							15											603	15	FT	36" CONDUIT. TYPE A	
							186											603	186	FT	FIELD PAVING OF EXISTING PIPE	
							2 12											SP 604 SP 604	2 12	EACH	CATCH BASIN, NO. CB-1 CATCH BASIN, MEDIAN WALL	
							15 3											SP 604 SP 604	15 3	EACH EACH		
							2											SP 604	2	EACH	SPECIAL - 30" PRECAST CONCRETE EN	
		3200																209	3200	FT	DITCH CLEANOUT	
							2.4											613	2.4	CU YD	LOW STRENGTH MORTAR BACKFILL	
											6434							605	6434	FT	AGGREGATE DRAIN, AS PER PLAN	
		175								49023								SP605	49198	FT	6" SHALLOW PIPE UNDERDRAIN, WITH F	
		LUMP								32								SPECIAL SPECIAL	32 LUMP	EACH LUMP	PRECAST REINFORCED CONCRETE OUTL CULVERT CLEANOUT, TWIN 6'X12' BOX	
		LOWI																STLUIAL		LOW		
	63365																	206	63365		CEMENT STABILIZED SUBGRADE, 12 INC	
	33875																	206 206	33875	SQ TD SQ YD	CEMENT STABILIZED SUBGRADE, 12 INC	
	3019																	206	3019	TON	CEMENT	
	1.3 32																	206 206	1.3 32	M GAL HOUR	WATER FOR CURING TEST ROLLING	
	52																	200	52	HOUR	TEST ROLLING	
	300																	251	300		PARTIAL DEPTH PAVEMENT REPAIR	
	300										25061							252 255	25061 300	FT	FULL DEPTH PAVEMENT SAWING	
	200																	255	200	FT	FULL DEPTH PAVEMENT REMOVAL AND	
											26082			32				SP302	( 26114	CU YD	BITUMINOUS AGGREGATE BASE, PG64-2	
											11211		(	79	KA			SP304			AGGREGATE BASE	
											7745		· · · ·	Prod	/			SP304	7745	CU YD	AGGREGATE BASE (SHOULDER)	
											1314							SP402	1314	CU YD	ASPHALT CONC. BASE COURSE, OR RE	
											3335 1147			141					3335 1288		ASPHALT CONC. BASE COURSE, OR RE ASPHALT CONCRETE SURFACE COURSE,	
											1141			171				51 -0-	1200			
											2858							SP404	2858		ASPHALT CONCRETE SURFACE COURSE,	
											24914 5738			4160				SP404A 407	29074 5738	FI	JOINT SEALER TACK COAT, TRACKLESS TACK, AS PEF	
											7210			252				407	7462	GALLON	TACK COAT, TRACKLESS TACK FOR IN	
											1002							452	1002	SQ YD	NON-REINFORCED CONCRETE PAVEMEN	
											4974							617	4974	SQ YD	SHOULDER PREPARATION	
											415							617	415	CU YD	COMPACTED AGGREGATE	
											27							617 SP627	27		WATER STONE SHOULDER PROTECTION	
											282 6792							SPECIAL	282 6792		ASPHALT PAVEMENT REINFORCEMENT	
		175									15.14							SPECIAL SPECIAL	175 15.14	FT	PRESSURE RELIEF JOINT, TYPE A SONIC NAP ALERT PATTERN (SNAP)	
	24836										10.11			2080				SPECIAL	26916	FT	SAW CUT JOINT	
										A	$\sim$											
	$h \sim$										7745	$\rightarrow$						SP304	7745	KU YP	RECYCLED AGGREGATE BASE, AS PER I	
~	10000	$\mathbf{D}$										2						SPECIAL	10000	et vo	CRUSHED MATERIAL STOCKPILE	
	$\mathcal{M}$	/																		$\overline{P}$	FOR BRIDGE MAINTAN	
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DESCRIPTION			REF. NO.		
DRAINAGE (CONT.)				1	
PER PLAN			10		
				-	
7					
			11		
END SECTION END SECTION					
END SECTION				-	
			11		
H FABRIC WRAP UTLET			11	-	
DX			12		
PAVEMENT					
INCHES DEEP, AS PER PLAN INCHES DEEP, AS PER PLAN			11	-	
				-	
			11	-	
ND RIGID REPLACEMENT			11		
4-22					
RECYCLED ASPHALT CONC. BASE ( RECYCLED ASPHALT CONC. BASE (	сои			-	
SE, USING CRUSHED STONE, PG64-					
SE, USING CRUSHED SLAG, PG70-2	?2 (1	FR)		-	
PER PLAN R INTERMEDIATE COURSE, AS PER A	DIA	٨/	12		
ENT (T=15")	ΓLΑ	/v	12		
Τ			11	-	
			12 SPEC.		
			11		
~ALTERNATE_BID	$\gamma$			Ь	
<u>R PLAN (SHOULDER)</u>				Б	
ANENCE GENERAL SUMMARY SEE SI		T 129		1	
				_	
	A	ADDENDUM NO.	3	CT	1/22
	۸ NO.	ADDENDUM NO. REVISIONS		CT BY	<i>1/15</i> date
	-	HIO TURNPIKE			
	_	OHIO TURNPIKE EASTBO LANES & SHOULDER	OUND RIGHT RECONSTRU	TW	0
	╞	GENERAL S RESOURCE INTER 6350 PRESIDEN COLUMENS	NATIONAL, IN	C.	
		COLUMBUS, SIGNED: <u>NLC</u> CHECKED: AWN: <u>NLC</u> IN CHARGE:	SSKDATE:_1	2/19/ N//	
		NTRACT.39-1.3-02			

					SP519		6	01		602	603			603			SP 604	SP 604	SP 604	SP 604	SP 604	613	
REF S NO.	SHEET NO.	STA T STA		SIDE	PATCHING CONCRETE STRUCTURE	ROCK CHANNEL PROTECTION, TYPE A, WITH FABRIC FILTER	ROCK CHA TECTION, H FABRIC	NEL NEL	PAVED GUTTER, MISC.: GUTTER BROKEN IN PLACE	CONCRETE MASONRY	SPECIAL - GROUTING VOIDS AROUND CORRUGATED METAL PIPES	12° CONDUIT, TYPE F 707.33, AS PER PLAN	18" CONDUIT, TYPE C	30° CONDUIT, TYPE C	36" CONDUIT, TYPE A	FIELD PAVING OF EXISTING PIPE	CATCH BASIN, NO. CB-I	SPECIAL - 12" PRECAST CONCRETE FND SECTION	SPECIAL - 18" PRECAST CONCRETE END SECTION	SPECIAL - 30" PRECAST CONCRETE END SECTION	CATCH BASIN, MEDIAN WALL	LOW STRENGTH MORTAR BACKFILL	
					SQ FT	CU YD	CU YD	CU YD	FT	CU YD	CU YD	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	CU YD	REMARKS
DR-1	80	606+00.00		LT.	46																		3 SPALLED AREAS ON THE WINGWALL
DR-1A	81	612+28.00	613+21.00	RT.			39		90														
DR-2	82	625+00.00		RT.				1.33				36					1	1					NEW CONST. PER OTC CB-1
DR-2A	82	627+25.02		RT.				1.33				21						1					
DR-3	82	631+28.50		RT.				1.33				46					1	1					CONNECT INTO EXISTING PIPE
DR-4	83	639+40.00		RT.				1.33				50						1			1		REPLACE PER OTC CB-1 AND CB-MW
DR-5	83	640+15.00		RT.				1.78															
DR-6	84	644+85.30		RT.				1.33				82						1			1		REPLACE PER OTC CB-1 AND CB-MW
DR-7	84	648+06.30		RT.				1.33				91						1			1		REPLACE PER OTC CB-1 AND CB-MW
DR-8	84	651+31.00		RT.				1.33				91						1			1		REPLACE PER OTC CB-1 AND CB-MW
DR-9	84	654+49.50		RT.				1.33				97						1			1		REPLACE PER OTC CB-1 AND CB-MW
DR-10	85	657+66.00		RT.				1.33				102						1			1		REPLACE PER OTC CB-1 AND CB-MW
DR-11	85	658+90.00		RT.	74	18.00																	2 SPALLED AREAS ON THE WINGWALL
DR-12	85	660+94.50		RT.				1.33				101						1			1		REPLACE PER OTC CB-1 AND CB-MW
DR-13	85	664+08.00		RT.				1.33				113						1			1		REPLACE PER OTC CB-1 AND CB-MW
DR-14	85	667+27.50		RT.				1.33				113						1			1		REPLACE PER OTC CB-1 AND CB-MW
DR-14A	86	673+25.00		RT.				1.33				130						1			1		REPLACE PER OTC CB-1 AND CB-MW
DR-15	87	682+30.00		RT.				1.33				140						1			1		NEW CONST. PER OTC CB-1/CB-MW
DR-16	87	683+85.00		RT.																		2.40	PLACE LSM UNDER FOOTING
DR-17	87	685+08.00	690+43.00	LT.			155		535.00														
DR-17A	87-88	690+71.00	695+90.00	LT.			150		569.00														
DR-18	87	691+00.00		RT.				1.33				140						1			1		NEW CONST. PER OTC CB-1/CB-MW
DR-18A	88	700+00.00	702+00.00	RT.		(	42	\$						200						2			
DR-19	88	696+00.00		RT.	34	Â	hiin	2.78						-					1		1		2 SPALLED AREAS ON THE WINGWALL
DR-20	91	737+85.00		RT.				1.33					8						1		1		CONNECT INTO EXISTING PIPE
DR-21	93	752+50.00		RT.									4						1		1		CONNECT INTO EXISTING PIPE
DR-22	93	762+30.00		RT.						0.18													
DR-23	96	792+40.00		RT./LT.											15	186							REPLACE 15' OF PIPE ON THE WB SID
DR-24	98	821+00.00		RT.	7																		2 SPALLED AREAS ON THE WINGWALL
DR-25	99	825+00.00		RT.	26																		2 SPALLED AREAS ON THE WINGWALL
DR-26	101	850+35.00		LT.							2												HOLE AT TOP AND BOTTOM OF PIPE
DR-27	101	854+10.00		RT.						0.33			4						1				15" HEADWALL
DR-28	102	860+15.00		LT.						0.6				12									30" HEADWALL
DR-29	102	860+40.00		RT.			13.60																
DR-30	102	867+00.00		RT.				1.78															
ОТ Л І	S CAR		GENERAL SU		187	10 00	399.60	8 27 62	1194	1.11	2	1353	16	212	15	186	2	15	3	2	12	2.40	

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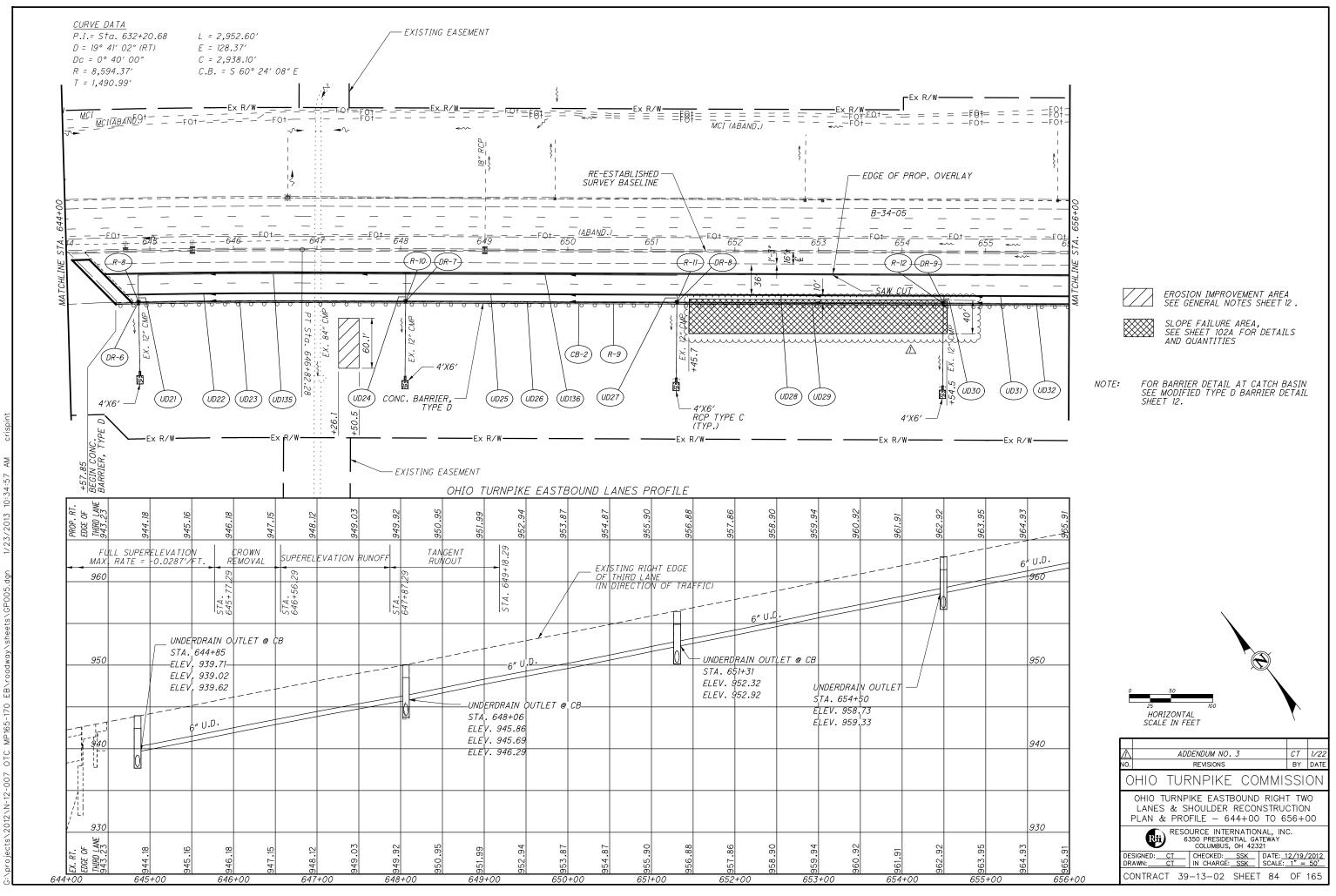
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$\wedge$	ADDENDUM NO. 3	CT	1/22								
NO.	REVISIONS	BY	DATE								
С	HIO TURNPIKE COMMIS	SSI	NC								
OHIO TURNPIKE EASTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION DRAINAGE SUB-SUMMARY											
	RESOURCE INTERNATIONAL, IN 6350 PRESIDENTIAL GATEWAY COLUMBUS, OH 42321	IC.									
	SIGNED: <u>NLC</u> CHECKED: <u>SSK</u> DATE: <u>1</u> AWN: <u>NLC</u> IN CHARGE: <u>SSK</u> SCALE:		<u>2012</u>								
СС	ONTRACT 39-13-02 SHEET 66	6 OF1	65								



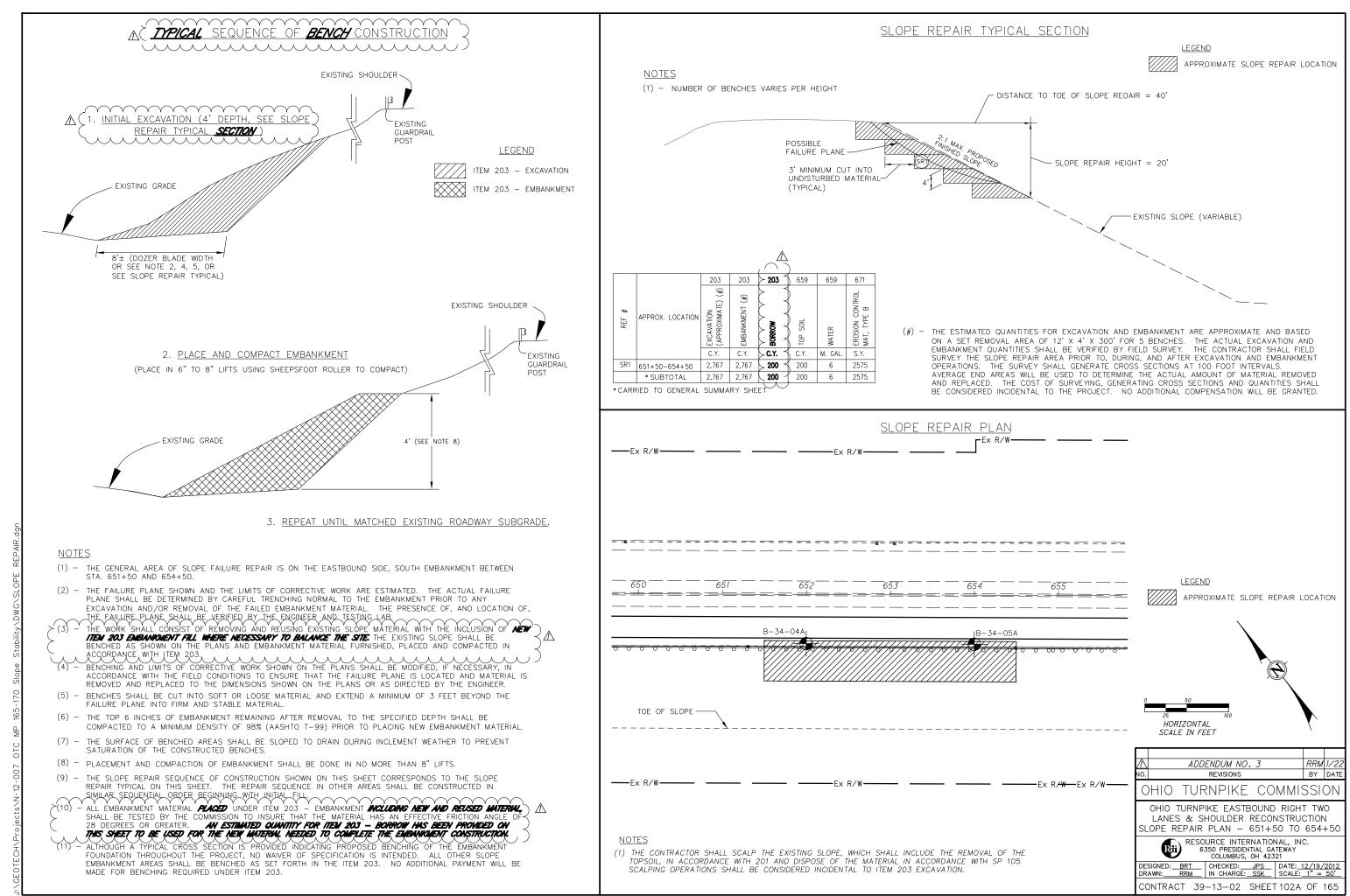
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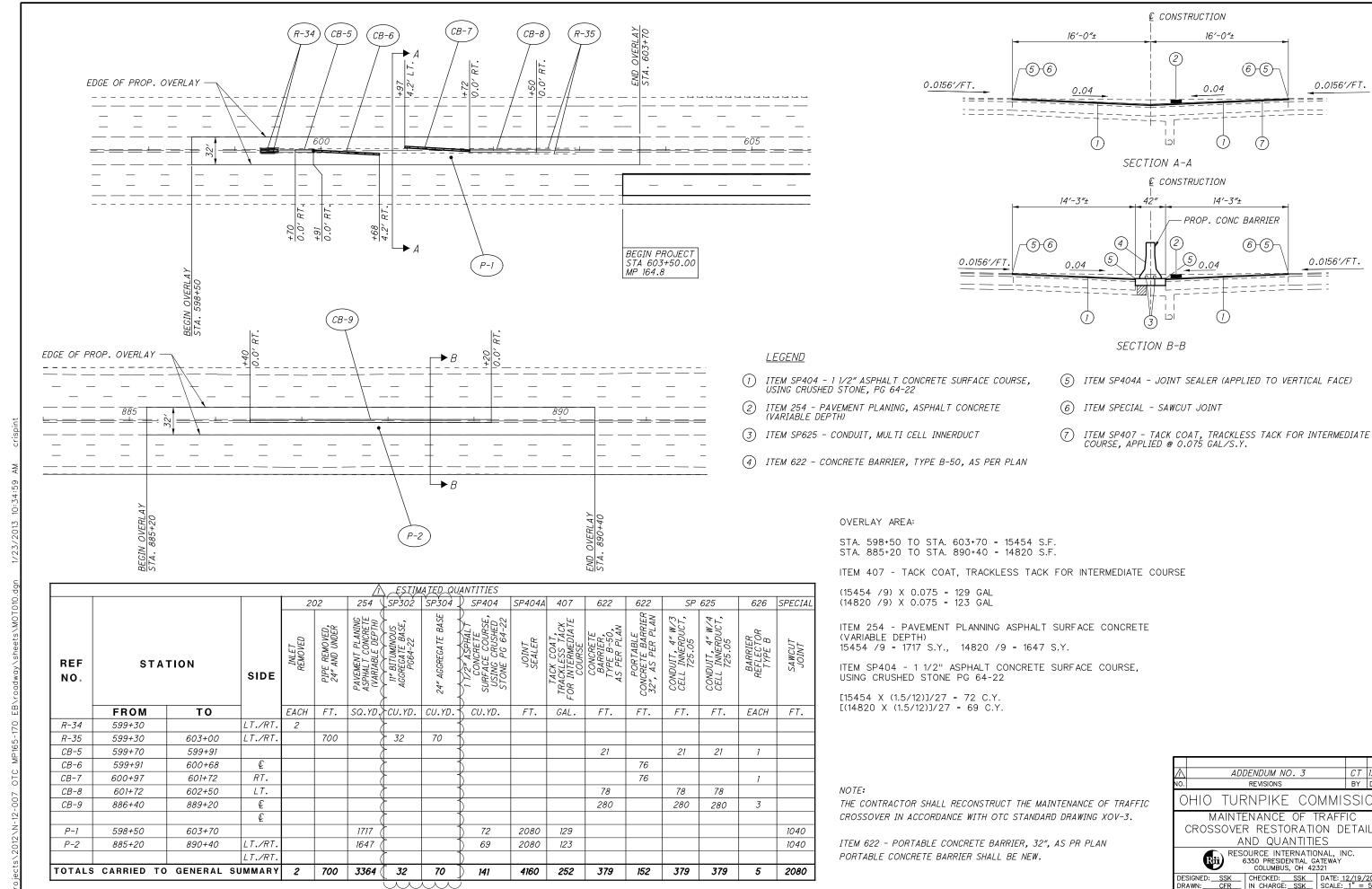
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$\wedge$		ADL	DENDUM NC	). 3		CT	1/22
NO.	REVISIONS					BY	DATE
OHIO TURNPIKE COMMISSION							
MAINTENANCE OF TRAFFIC CROSSOVER RESTORATION DETAILS AND QUANTITIES							
RESOURCE INTERNATIONAL, INC. 6350 PRESIDENTIAL GATEWAY COLUMBUS, OH 42321							
	SIGNED: _ AWN:		CHECKED: IN CHARGE: _		DATE: <u>1</u> SCALE:		
CONTRACT 39-13-02 SHEET 103 0F165							