Dist 2 SEN -150237 -SR 4/23/2015 19-0.00 Resurf

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END PROJECT STA. 320+41 BEGIN PROJECT STA. 0+12 LOCATION MAP

LATITUDE: 41°01'43" LONGITUDE: -83°00'58"

PORTION TO BE IMPROVED _ _ INTERSTATE HIGHWAY. _ _ _ _ _ _ _ _ _ _ _ STATE ROUTES _ _ _ _ _ _ _ _ _ _ COUNTY & TOWNSHIP ROADS_______ OTHER ROADS_________

DESIGN DESIGNATION

CURRENT ADT (2016) 1600
DESIGN YEAR ADT (2028) 1600
DESIGN HOURLY VOLUME (2028) 140
DIRECTIONAL DISTRIBUTION 70%
TRUCKS (24 HOUR B&C) 9%
DESIGN SPEED VARIES
LEGAL SPEED VARIES
DESIGN FUNCTIONAL CLASSIFICATION:
RURAL MAJOR COLLECTOR
NHS PROJECT NO

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES CONTACT BOTH SERVICES CALL TWO WORKING DAYS BEFORE YOU DIG 1-800-362-2764 (TOLL FREE) OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY: ODOT - DISTRICT 2 PRODUCTION

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

SEN-19-0.00

BLOOM TOWNSHIP SENECA COUNTY

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PROJECT DESCRIPTION

A 2-LANE DISTRICT ALLOCATION FUNDED PROJECT TO RESURFACE SR 19 FROM CRAWFORD COUNTY LINE TO US 224. REPLACE CURB RAMPS THROUGH THE VILLAGE OF BLOOMVILLE. CULVERT REPLACEMENT ON SR 19 AT SLM 0.08. PERFORM NECESSARY RELATED WORK.

0.43 ACRES PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.0 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: 0.43 ACRES

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.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEET 5, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

				STAND	ARD CONSTRU	ICTION D	RAWINGS		CATIONS	PROVISIONS
		BP-3.1 BP-7.1	7/18/14 7/18/14	AND DESCRIPTION OF THE PROPERTY OF THE PARTY	MT-97.10 MT-97.12	7/18/14 7/18/14		800	1/21/15	WATERWAY
	ENGINEERS SEAL:				MT-99.20	7/19/13		832	1/17/14	PERMIT
	WING TOREY TO	RM-1.1	7/18/14		MT-101.6 MT-105.10	7/19/13 7/19/13				
	SUMMERSETT W	DM-1.1	1/18/13		TC-65.10	1/17/14				
***************************************	THE WALL THE REPORTED TO	DM-4.4	7/20/15		TC-65.11 TC-71.10	7/18/14 1/17/14				
- 1.3	SIGNED: GOUS Surrounds DATE: 123 115	***************************************								

SUPPLEMENTAL

SPECIAL

TRANSPORTATION

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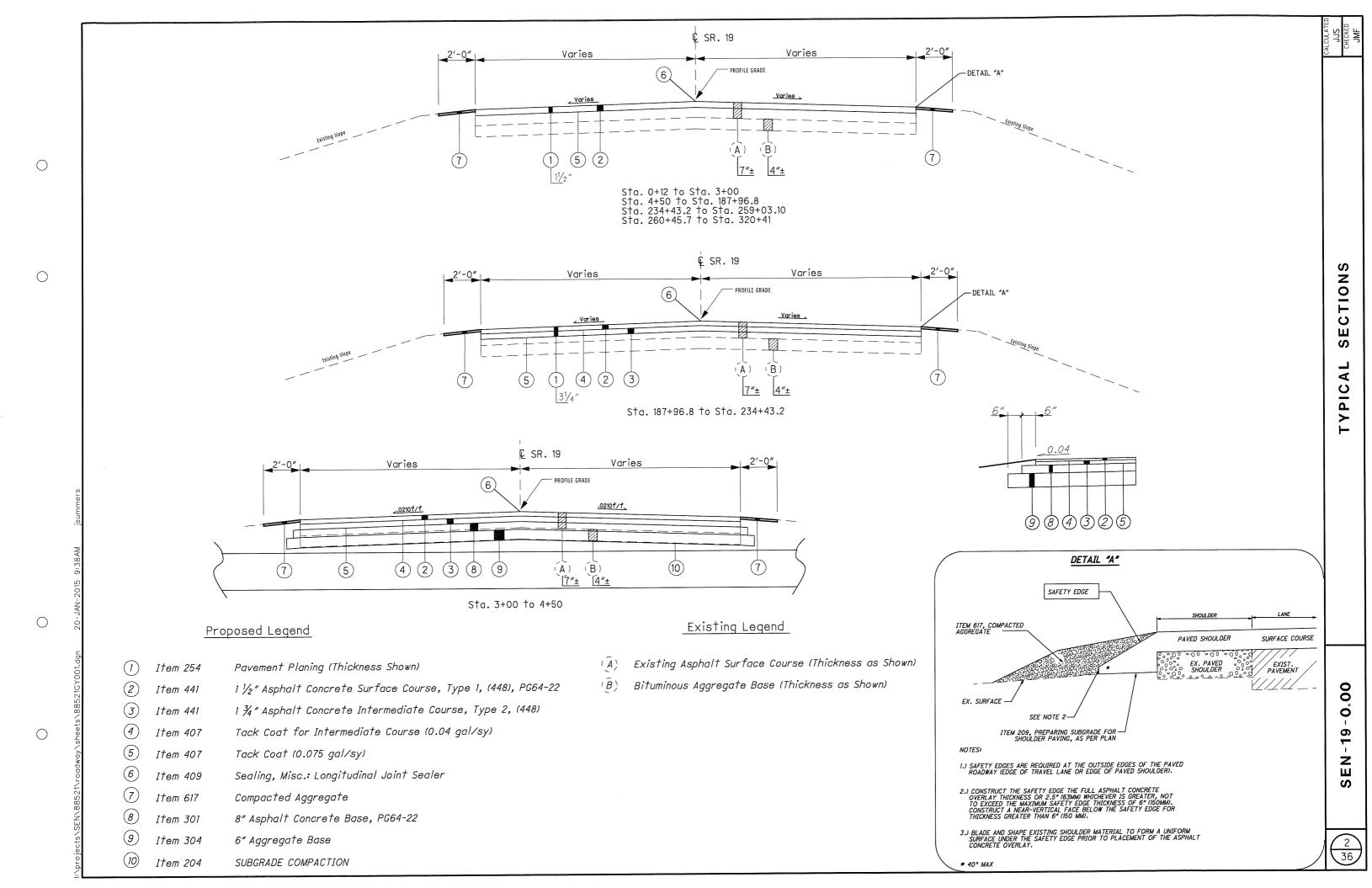
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UTILITIES

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

ELECTRIC: GAS:

AEP-AMERICAN ELECTRIC POWER COLUMBIA GAS OF OHIO

2901 E. MANHATTAN BLVD. TOLEDO, OH 43611 TIFFIN, OH 44883 419-539-6066 419-209-5583

ELECTRIC:

OHIO EDISON NORTH CENTRAL ELECTRIC COOPERATIVE, INC.

2508 W. PERKINS AVE. SANDUSKY, OH 44870 P.O. BOX 475 419-627-6887 ATTICA, OH 44807 800-426-3072

TELEPHONE:

FRONTIER NORTH CENTURYLINK

122 S. ELIZABETH STREET 300 W. GYPSY LANE LIMA, OHIO 45801 BOWLING GREEN, OHIO 43402 419-226-6120

419-354-9452

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING OUPS AND ALL APPROPRIATE UTILITY COMPANIES TO MAKE ARRANGEMENTS FOR ANY REQUIRED WORK IN THEIR AREA.

CONSTRUCTION NOTIFICATION

THE CONTRACTOR WILL 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 EMAIL AT: DO2.PIO@DOT.STATE.OH.US

DISTRICT PERMIT SECTION BY FAX AT:

419-352-7524 OR EMAIL AT DO2.PERMITS@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.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS

PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. THE PROPOSED ASPHALT CONCRETE OVERLAY SHALL BE AS SHOWN ON THE TYPICAL SECTIONS.

ELEVATION DATUM

ALL ELEVATIONS DATUM ARE BASED ON U.S.G.S DATUM.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

MONUMENTS:

CARE SHALL BE TAKEN NOT TO DISTURB EXISTING MONUMENTS WHICH ARE TO REMAIN IN PLACE.

55 EACH. ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUM-MARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 1 HOUR.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

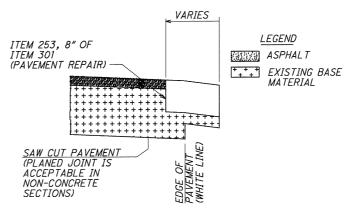
ITEM 253, PAVEMENT REPAIR:

EXISTING PAVEMENT AREAS WHICH WILL BE IN CONTACT WITH THE PAVEMENT REPAIR SHALL BE COATED WITH PG GRADE LIQUID ASPHALT (SIDES AND BOTTOM) AT AN APPLICATION RATE OF

THE FOLLOWING ESTIMATED QUANTITY ARE TO BE USED FOR 8" PAVEMENT REPAIR FOR SR 19 AS DIRECTED BY THE ENGINEER.

Sta 0+12 to 320+41 7548 SQ YD

QUANTITY CARRIED TO THE GENERAL SUMMARY.



NOTE: THE ENGINEER SHALL FIELD VERIFY ALL LOCATIONS PRIOR TO THE BEGINNING OF WORK. ANY ADJUSTMENTS NECESSARY SHALL BE AS DIRECTED BY THE ENGINEER. PAVEMENT REPAIRS SHALL BE DONE PRIOR TO PLANNING

ITEM 409, SEALER, MISC.: LONGITUDINAL JOINT SEALER

409.01 DESCRIPTION

THE WORK SHALL CONSIST OF FURNISHING AND INSTALLING A HOT-APPLIED ASPHALTIC JOINT ADHESIVE/SEALER ON LONGI-TUDINAL COLD CONSTRUCTION JOINTS IN ASPHALT CONCRETE PAVEMENTS AS SHOWN IN THE PLANS IN ACCORDANCE WITH THESE SPECIAL PROVISIONS.

409.02 MATERIALS

MATERIALS SHALL MEET THE FOLLOWING REQUIREMENTS:

Charecteristic	Test	Value
Brookfield Viscosity @ 400° F	ASTM D 3236	4000-10000 cp
Cone Penetration @ 77° F	ASTM D 5329	60-100
Flow @ 140° F	ASTM D 5329	5mm max.
Resilience @ 77° F	ASTM D 5329	30% min.
Ductility @ 77° F	ASTM D 113	30 cm min.
Ductility @ 39.2° F	ASTM D 113	30 cm min.
Tensile Adhesion @ 77° F	ASTM D 5329	500% min.
Softening Point	ASTM D 36	170° F min.
Asphalt Compatibility	ASTM D 5329	Pass

THE MATERIAL SHALL BE "CRAFCO PAVEMENT JOINT ADHESIVE, PRODUCT NO. 34524" OR APPROVED EQUAL.

409.03 INSTALLATION

INSTALLATION SHALL BE IN ACCORDANCE WITH THE RECOM-MENDATIONS OF THE MANUFACTURER.

409.04 BASIS OF PAYMENT

WORK UNDER THIS ITEM SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER POUND, FURNISHED AND PLACED, PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO PERFORM THE WORK, COMPLETE IN PLACE AND ACCEPTED.

PAYMENT SHALL BE MADE UNDER:

ITEM 409 - SEALER, MISC .: LONGITUDINAL JOINT SEALER

32029 FT X 1 POUND = 8008 POUND 4 FT

QUANTITY DETERMINED BY RATE OF 1 POUND/4 FT QUANTITY CARRIED TO THE GENERAL SUMMARY.

ITEM 251, PARTIAL DEPTH PAVEMENT REPAIR

PARTIAL DEPTH PAVEMENT REPAIR HAS BEEN ESTABLISHED TO ADDRESS SURFACE REPAIRS THAT MAY BEEN NEEDED AFTER THE MILLING IS COMPLETE.

ITEM 251 - 450 SQ YD

PART-WIDTH CONSTRUCTION

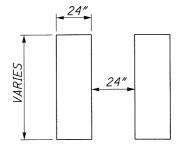
BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXTREME CARE SHALL BE TAKEN TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LONGITUDINAL JOINTS SHALL BE LAPPED AS SHOWN ON SCD BP-3.1.

PAVEMENT MARKINGS

THE CONTRACTOR SHALL MAKE NOTE OF ALL EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS BEFORE PERFORMING

ITEM 644, CROSSWALK LINE, AS PER PLAN

24" WHITE LONGITUDINAL LINES SHALL BE PLACED PARALLEL TO TRAFFIC FLOW AS SHOWN IN THE FOLLOWING DETAIL. THE MARKING DESIGN SHOULD AVOID THE WHEEL PATHS.



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SEEDING AND MULCHING

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

659. TOPSOIL 95 CU. YD.

659, SEEDING AND MULCHING 861 SQ. YD.

659, REPAIR SEEDING AND MULCHING 43 SQ. YD

659. COMMERCIAL FERTILIZER 0.12 TON

659, WATER 4.6 M. GAL.

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 THESE LIMITS.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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 OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

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 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.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL
INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF
CONSTRUCTED AS SHOWN ON THE PLAN, THE 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.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CON-STRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE RIGHT OF WAY LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

611 8" CONDUIT, TYPE E 15 FT. 611 12" CONDUIT, TYPE E 15 FT.

SAFETY EDGE ITEMS 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22

IN ADDITION TO THE REQUIREMENTS OF 401.12, ATTACH A DEVICE TO THE SCREED OF THE PAVER THAT CONFINES THE MATERIAL AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A COMPACTED WEDGE SHAPE PAVEMENT EDGE OF APPROXIMATELY 30 DEGREES (NOT STEEPER THAN 40 DEGREES). ENSURE THE DEVICE MAINTAINS CONTACT WITH THE EXISTING SURFACE, AND ALLOW FOR AUTOMATIC TRANSITION TO CROSS ROADS, DRIVEWAYS AND OBSTRUCTIONS. DO NOT USE CONVENTIONAL SINGLE PLATE STRIKE OFF.

CONSTRUCTION OF SAFETY EDGE CAN BE OMITTED AT LOCATIONS WHERE EXISTING WIDTH OF GRADED SHOULDER OR BERM IS LESS THAN 12". PROJECTS WITH VARYING CONDITIONS SHOULD USE SAFETY EDGE WHERE POSSIBLE. PLAN PREPARATION HAS MADE EVERY REASONABLE ATTEMPT TO IDENTIFY POSSIBLE SAFETY EDGE LOCATIONS.

USE THE TRANSTECH SHOULDER WEDGE MAKER, THE CARLSON SAFETY EDGE END GATE, THE ADVANT-EDGER, THE TROXLER SAFETSLOPE OR A SIMILAR APPROVED EQUAL DEVICE THAT PRODUCES THE SAME WEDGE CONSOLIDATION RESULTS. CONTACT INFORMATION FOR THESE WEDGE SHAPE COMPACTION DEVICES IS THE FOLLOWING:

TRANSTECH SYSTEMS, INC. 1594 STATE STREET SCHENECTADY, NY 12304 1-800-724-6306 WWW.TRANSTECHSYS.COM

ADVANT-EDGE PAVING EQUIPMENT LLC P.O. BOX 9163 NISKAYUNA, NY 12309-0163 518-280-6090 WWW.ADVANTEDGEPAVING.COM

TROXLER ELECTRONIC LABORATORIES, INC. 3008 E. CORNWALLIS RD. RESEARCH TRIANGLE PARK, NC 27709 1-877-TROXLER WWW.TROXLERLABS.COM

CARLSON SAFETY EDGE END GATE 18425 50TH AVENUE EAST TACOMA, WA 98446 253-875-8000 IF ELECTING TO USE A SIMILAR DEVICE, PROVIDE PROOF THAT THE DEVICE HAS BEEN USED ON PREVIOUS PROJECTS WITH ACCEPTABLE RESULTS OR CONSTRUCT A TEST SECTION PRIOR TO THE BEGINNING OF WORK AND DEMONSTRATE WEDGE COMPACTION TO THE SATISFACTION OF THE ENGINEER. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS OR OTHERWISE AUTHORIZED BY THE ENGINEER.

IN ADDITION TO THE REQUIREMENTS OF 401.16, MAKE THE FIRST ROLLER PASS 8 TO 12 INCHES (200 TO 300 MM) AWAY FROM TAPERED EDGE. DO NOT ROLL THE TAPER.

ADDITIONAL QUANTITIES:

ITEMS 441, ASPHALT CONCRETE SURFACE COURSE, 53 CU. YD. TYPE 1, (448), PG64-22

QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 209, PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN

PREPARE THE SHOULDER FOR PAVING A CONSISTENT SAFETY EDGE IN BOTH THICKNESS AND WIDTH.

PRIOR TO PAVING THE SAFETY EDGE, GRADE AN ADDITIONAL WIDTH OF 10" OF EMBANKMENT, AGGREGATE, OR OTHER MATERIAL THAT EXISTS AT THE OUTSIDE EDGE OF PAVED ROADWAY TO PROVIDE A CROSS SECTION FOR A UNIFORM THICKNESS AND WIDTH OF SAFETY EDGE.

COMPACT THE GRADED SHOULDER ACCORDING TO 617.05, OR AS DIRECTED BY THE ENGINEER.

A QUANTITY OF 10.38 MILES HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR PREPARING SUBGRADE FOR SHOULDERS, APP.

ENVIRONMENTAL COMMITMENT

THE SPECIFICATIONS SET FORTH IN THE MOST CURRENT VERSION OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LOCATION AND DESIGN MANUAL, AND STANDARD DRAWINGS WILL BE USED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION.

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGE OF ENDANGERED BAT SPECIES. NO TREES 3 INCHES OR GREATER IN DIAMETER MAY BE REMOVED UNDER THIS PROJECT FROM APRIL 1 TO SEPTEMBER 30. ALL NECESSARY TREE REMOVALS MUST OCCUR FROM OCTOBER 1 TO MARCH 30.

THE PROJECT IS LOCATED IN OR NEAR THE BELLEVUE-CASTALIA KARST PLAIN SOURCE WATER PROTECTION AREA. IN ORDER TO MINIMIZE THE POTENTIAL TO CONTAMINATE THIS WATER SUPPLY, PROJECT RELATED REFUELING AND MAINTENANCE ACTIVITIES SHALL NOT BE PERFORMED FOR THE WHOLE PROJECT LENGTH. THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. ANY SUCH SPILL EVENT SHALL BE REPORTED IMMEDIATELY TO THE SENECA COUNTY GENERAL HEALTH DISTRICT AT 419-447-3691. IF THE SPILL IS A REPORTABLE AMOUNT, THE CONTRACTOR SHOULD CONTRACT A LOCAL HAZARDOUS MATERIAL RESPONSE TEAM FOR CLEAN-UP OF THE SPILL.

CHRISTMAS NEW YEARS MEMORIAL DAY **EASTER**

FOURTH OF JULY LABOR DAY **THANKSGIVING**

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

DAY OF HOLIDAY OR EVENT

TIME ALL LANES MUST BE OPEN TO TRAFFIC

SUNDAY MONDAY **TUESDAY** WEDNESDAY THURSDAY

12:00N FRIDAY THROUGH 6:00 AM MONDAY 12:00N FRIDAY THROUGH 6:00 AM TUESDAY 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY 12:00N TUESDAY THROUGH 6:00 AM THURSDAY 12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY

THURSDAY (THANKSGIVING ONLY)

6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY 12:00N THURSDAY THROUGH 6:00 AM MONDAY FRIDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY SATURDAY

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 RE-QUIREMENTS. THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH CMS 108.07.

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

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

LOCATE 1 BARRICADE AT STA. 2+50 SOUTH OF STRUCTURE SEN-19-0800

LOCATE 1 BARRICADE AT STA. 5+00 NORTH OF STRUCTURE SEN-19-0080

NOTICE OF CLOSURE SIGNS, W20-H14, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST TWO WEEKS IN ADVANCE OF THE SCHEDULED ROAD OR RAMP CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE.

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

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 21 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON THIS SHEET. THIS CLOSURE MAY NOT TAKE PLACE UNTIL THE CULVERT AT SLM 1.23 ON SR 100 IS COMPLETED. THE ESTIMATED COMPLETION DATE FOR SR 100 IS AUGUST 1ST. LIQUIDATED DAMAGES SHALL BE ASSESSED IN ACCORDANCE WITH CMS 108.07.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF CMS 614.04 AND 614.11.

ITEM 614 - WORK ZONE MARKING SIGN ITEM 614 - WORK ZONE CENTER LINE, CLASS II

20 EACH 13.0 MILE

ITEM 614, REPLACEMENT SIGN

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

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

AN ESTIMATED QUANTITY OF 10 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

ITEM 614, REPLACEMENT DRUM

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

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CON-TRACT 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.

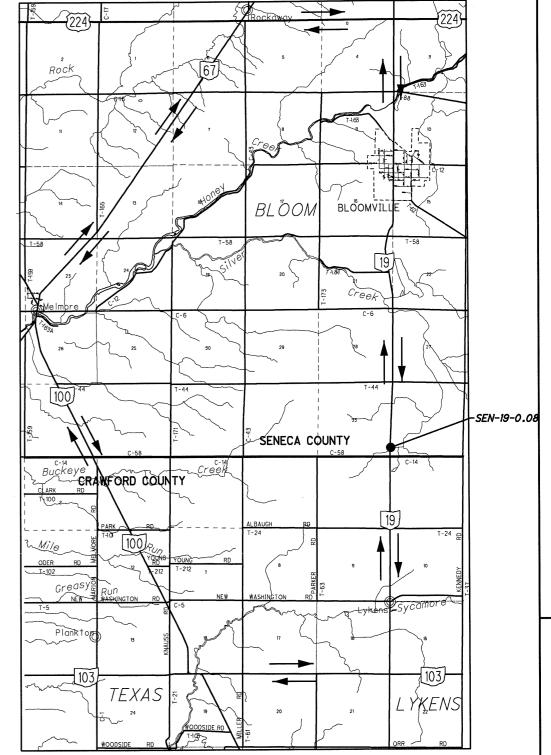
AN ESTIMATED QUANTITY OF 10 EACH HAS BEEN PROVIDED

PLANED SURFACES

NO PLANED SURFACES SHALL BE OPEN TO THE PUBLIC FOR MORE THAN 5 DAYS.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.



NORTHBOUND DETOUR

SOUTHBOUND SR 19 TO WESTBOUND SR 103 WESTBOUND SR 103 TO NORTHBOUND SR 100 NORTHBOUND SR 100 TO NORTHBOUND SR 67 NORTHBOUND SR 67 TO EASTBOUND US 224 EASTBOUND US 224 TO SOUTHBOUND SR 19

SOUTHBOUND DETOUR

NORTHBOUND SR 19 TO WESTBOUND US 224 WESTBOUND US 224 TO SOUTHBOUND SR 67 SOUTHBOUND SR 67 TO SOUTHBOUND SR 100 SOUTHBOUND SR 100 TO EASTBOUND SR 103 EASTBOUND SR 103 TO NORTHBOUND SR 19

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IN THE GENERAL SUMMARY.

		-		SH	EET NUN	MBER						TICIPA	TION	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET	ALCULATI JUS CHECKED
3	4	5	8	9	11	23	24	26	22	32	01/STR/ PV			11 = 101	EXT	TOTAL	01111		NO.	CAL
																		ROADWAY		
											LS			201	11000	LS		CLEARING AND GRUBBING		1
								2			2			202	20010	2		HEADWALL REMOVED		
			420		0007						420 2607			202 202	23010 30000	420 2607		PAVEMENT REMOVED, ASPHALT WALK REMOVED		
					2607				29		29			202	35100	29		PIPE REMOVED, 24" AND UNDER		
						89	137		1		226			203	10000	226		EXCAVATION		
						81	193				274			203	20000	274	CY	EMBANKMENT		
			420								420			204	10000	420		SUBGRADE COMPACTION PROOF ROLLING		
									-		1			204	45000					
			12								12 10.38			209 209	60500 72051	12 10.38	MILE MILE	LINEAR GRADING PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	4	
	10.38																	CURB RAMP, TYPE A1		 >
					88 806			-			88 806			608 608	52010 52020	88 806	SF	CURB RAMP, TYPE A2		
					289						289			608 608	52040 52070	289 1433		CURB RAMP, TYPE B2 CURB RAMP, TYPE D		Ì
-					1433						1433									SUMMAR
					17						17			611 611	98630 99654	17		CATCH BASIN ADJUSTED TO GRADE MANHOLE ADJUSTED TO GRADE		l S
														623	39500	55	EACH	MONUMENT BOX ADJUSTED TO GRADE		
55											55									∣ ∢
					9						9			638	10800	9	EACH	VALVE BOX ADJUSTED TO GRADE		SENER GENER
																<u> </u>		EROSION CONTROL		
														050	00700	05	CY	TOPSOIL		J
	95 861										95 861			659 659	10000	95 861	SY	SEEDING AND MULCHING		
	43										43			659 659	14000 20000	0.12	SY TON	REPAIR SEEDING AND MULCHING COMMERCIAL FERTILIZER		-
	0.12 4.6		<u> </u>								0.12 4.6			659	35000	4.6	MGAL	WATER		
											3000			832	30000	3000	EACH	EROSION CONTROL		
											3000									-
																		DRAINAGE		
											15			611	02500	15	FT	8" CONDUIT, TYPE E		_
	15 15										15			611	05100	15	FT	12" CONDUIT, TYPE E		4
								34			34			611	06400	34	FT	15" CONDUIT, TYPE D		1
																		PAVEMENT		
50											450			251	01000	450		PARTIAL DEPTH PAVEMENT REPAIR	3 3	
548											7548			253	01000	7548		PAVEMENT REPAIR		
			76118								76118			254 254	01000	76118 17863		PAVEMENT PLANING, ASPHALT CONCRETE, 1 1/2" PAVEMENT PLANING, ASPHALT CONCRETE, 3 1/4"		$+$ $\overline{}$
			17863								17863									8
			94								94			301 304	46000 20000	94 70		ASPHALT CONCRETE BASE, PG64-22 AGGREGATE BASE		၂ ဝှ
			70															TACK COAT		ြ
			7080 731						-		7080 731	-		407	10000	7080 731	GAL GAL	TACK COAT FOR INTERMEDIATE COURSE		
800			131								8008			409	98010	8008	LB	SEALING, MISC.:LONGITUDINAL JOINT SEALER	3	
	53		3934	<u> </u>							3987	+		441	50000	3987	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22		SE
			889								889			441	50300	889	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)		
			554								554			617	10100	554	CY	COMPACTED AGGREGATE		
						-		-			1									$\frac{1}{6}$
																				$\frac{6}{36}$

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	1	1	1	SHE	ET NUI	MBER	1	1	1	1		RTICIPA	TION	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEE
3	4	5	8	9	11	23	24	26	22	32	01/STR/ PV				EXT	TOTAL			N (
																		TRAFFIC CONTROL	
				363		1	-				363			621	00100	363	EACH	RPM	
				308							308			621	54000	308	EACH	RAISED PAVEMENT MARKER REMOVED	
_				27				-	_		27			630	03100	27	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
				4							4			630	80100	4		SIGN, FLAT SHEET	
		1		11							11	<u> </u>		642	00090	11	MILE	EDGE LINE, 4"	
				6.1							6.1	-		642	00290	6.1	MILE	CENTER LINE	
				777							777			644	00601	777		CROSSWALK LINE, AS PER PLAN	
		<u> </u>		806	-			-			2 806	-		644 644	01120 01200	2 806		SCHOOL SYMBOL MARKING, 120" PARKING LOT STALL MARKING	
				2							2			644	01600	2		HANDICAP SYMBOL MARKING	
																		STRUCTURE UNDER 20 FOOT SPAN (SEN-19-0.08)	
								-			LS	-		202	11000	LS		STRUCTURE REMOVED	
								210			LS 210			503 503	11100 21100	LS 210		COFFERDAMS AND EXCAVATION BRACING UNCLASSIFIED EXCAVATION	
								3132			3132			509	10000	3132	LB	EPOXY COATED REINFORCING STEEL	
				<u> </u>				34			34			511	46010	34	CY	CLASS QC1 CONCRETE	
								31			31 218			512 512	10050 33000	31		SEALING OF CONCRETE SURFACES (NON-EPOXY) TYPE 2 WATERPROOFING	
					 			218			210			512	33000	218			
								3 2	ļ		3 2	-		516 518	13600 21200	3 2		1" PREFORMED EXPANSION JOINT FILLER POROUS BACKFILL WITH FILTER FABRIC	
	•				<u> </u>			6			6	 		601	32200	6	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
								109			109			611	94900	109	FT	8' X 5' CONDUIT, TYPE A, 706.05	
							-											STRUCTURE 20 FOOT SPAN AND OVER (SEN-19-0197)	
										164	164			202	23501	164	SY	WEARING COURSE REMOVED, AS PER PLAN	3
								-	ļ	14	14	-		407	10000	14	GAL	TACK COAT	
										14	14			441	50000	14		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
							-	<u> </u>		112	112			SPECIAL	51631200	112	FT	SAWING AND SEALING BITUMINOUS CONCRETE JOINTS	+ 3
																		MAINTENANCE OF TRAFFIC	
		20				<u> </u>	<u> </u>				20	-		614	12460	20	EACH	WORK ZONE MARKING SIGN	
		10									10	1		614	12500	10	EACH	REPLACEMENT SIGN	
		10									10			614 614	12600 21400	10 13		REPLACEMENT DRUM WORK ZONE CENTER LINE, CLASS II	
												-							
																		INCIDENTALS	
							1				LS			614	11000	LS		MAINTAINING TRAFFIC	
											LS			623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS			624	10000	LS		MOBILIZATION	
						<u> </u>		-				-							_
					1	+	-	+		 	†	1	<u> </u>	 					+

STATION TO STATION	Ė	E A	202		254	204	209	301	304)7				
	L N H	CADD ARE	PAVEMENT REMOVED, ASPHAL	PAVEMENT PLANNING, 1 1/2"	PAVEMENT PLANNING, 3 1/4"	SUBGRAGE COMPACTION	LINEAR GRADING	ASPHALT CONCRETE BASE, PG64-22	AGGREGATE BASE	TACK COAT (0.075 gal/sq yd)	TACK COAT FOR P INTERMEDIATE COURSE (0.04 gal/sq yd)		ASPHALT CONCRETE SURFACE COURSE, TYPE 1,(448), PG64-22 11/2"	S INTERMEDIATE COURSE, TYPE 2, (448) 1 3/4"	COMPACTED AGGREGATE
		SQ FT	SQ YD	SQ YD	SQ YD	SQ YD	MILE	CU YD	CU YD	(A/9)0.075=	(A/9)0.04=	1		1 3/4"(A/9)/3=	
FROM TO		3411	54 15												
11011															_
0+12.0 3+00.0	288.0	8163.8		907.09			0.11	07.0	70.07	68.03	10.00		37.80 17.52	20.44	5.33 2.78
3+00.0 4+50.0	150.0	3783.6	420.40			420.40	0.06	93.6	70.07	31.53 1042.32	16.82		579.1	20.44	91.10
4+50.0 53+69.2	4919.2	125078.0		13897.55 13393.40	-		1.86 1.79	-		1042.32			558.1		87.28
53+69.2 100+82.1 100+82.1 103+74.0	4712.9 291.9	120540.6 8010.6		890.07	-	1	0.11			66.76			37.1		5.41
100+82.1 103+74.0 104+62.7 161+01.4	5638.7	143360.4		15928.93	1		2.14			1194.67			663.71		104.42
161+01.4 161+01.4 187+96.8	2695.4	69470.1		7718.90			1.02			578.92			321.62		49.91
187+96.8 234+43.2	4646.4	160769.8			17863.31		1.76			1339.75	714.53		744.30	868.34	51.10
234+43.2 259+03.1	2459.9	59876.0		6652.89			0.93			498.97			277.20		45.55
60+45.7 320+40.8	5995.1	150559.2		16728.80			2.27			1254.66			697.03		111.02
TOTALS CARRIED TO GENERAL SUMMAR	DV DV		420	76118	17863	420	12.05	94	70	7080	731		3934	889	554

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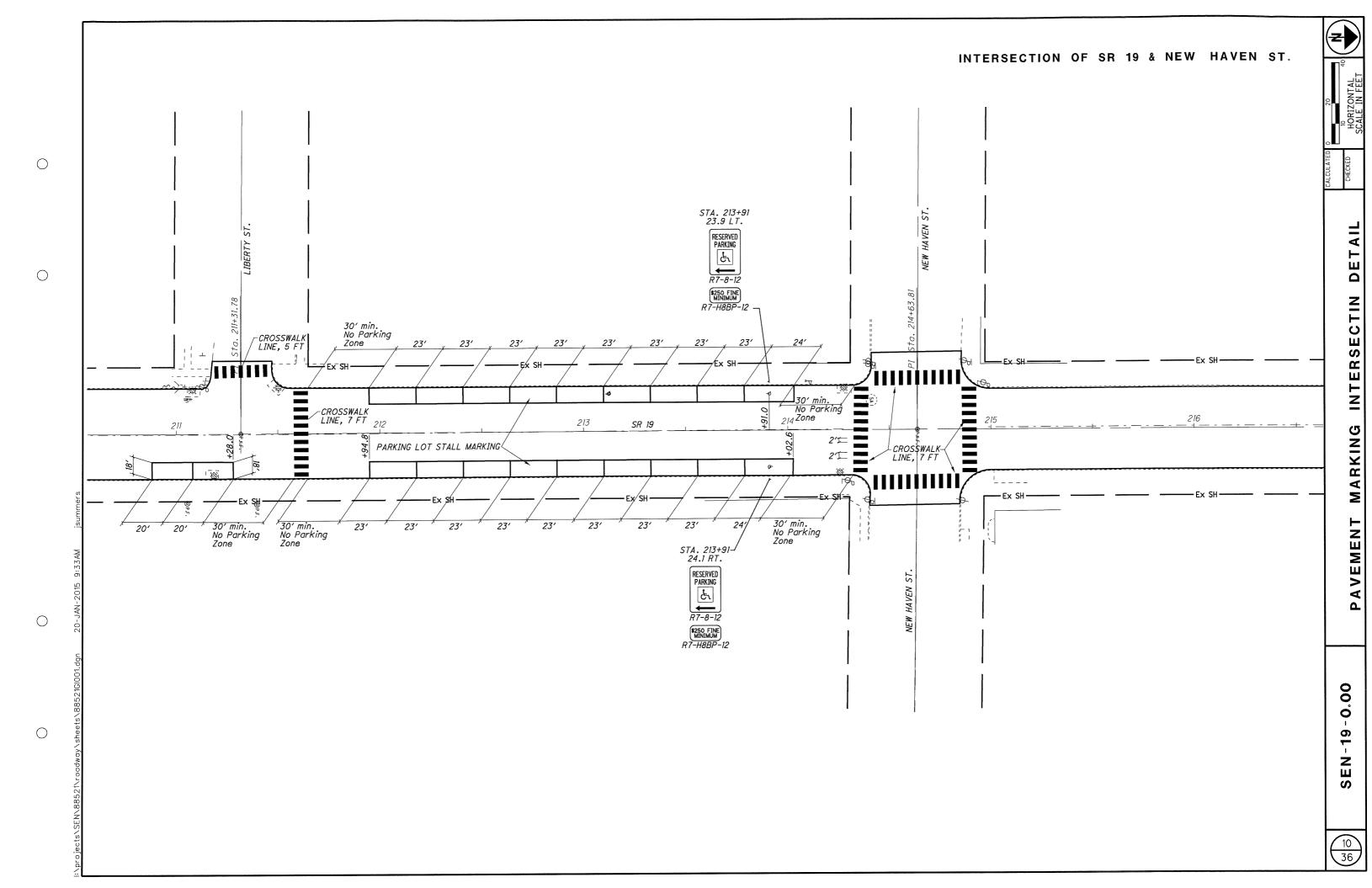
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_			1		(621			6.	30			642				64	14		TED
					PAVEMENT I	MARKERS					EDGF	LINE	I	CENTER LINE						JJS JJS HECKE
	STATION TO STATION	LENGTH	WHITE	YAW YAR	WHITE/WHITE	YELLOW/YELLOW	WHITE/RED	RASIED PAVEMENT MARKER REMOVED	GROUND MOUNTED SUPPORT, No. 3 POST	SIGN, FLAT SHEET	WHITE	YELLOW	DOUBLE SOLID	DASHED SOLID	DASHED	CROSSWALK LINE, AS PER PLAN	SCHOOL SYMBOL MARKING , 102"	HANDICAP MARKING	PARKING LOT STALL MARKING	CAL
0			EACH	EACH	EACH	EACH	EACH	EACH	FT	SF	М	ILE		MILE		FEET	EACH	EACH	FEET	
	FROM TO			ļ	ļ															
	0+12.0 178+01.0 178+01.0 230+78.0 230+78.0 320+41.0	17789.0 5277.0 8963.0	16.0			222 13 112		187 11 110			6.74 1.00 3.40		0.84 0.13 0.24	1.44 0.23 0.95	1.17 0.64 0.51	63	2			MARY
	INTERSECTIONS																			SUMM
	BEEGHLY AVE. STOUT ST. COLLEGE ST.															45 35 100 134				SUB
	ELLEN ST. LIBERTY ST. NEW HAVEN ST. KOHLER ST								27	4						93 252 30		2	87 719	5 Z
	EARL ST.															25				MARKING
																				Į
	TOTALS		16	0	0	347	0	308	27	4	11.1	0.0	1.2	2.6	2.3	777	2	2.0	806	⊢
	TOTALS CARRIED TO GENERAL SI	UMMARY			363	<u></u>		308	27	4	1	1.1		6.1		777	2	2	806	Z
O gn 20-JAN-2015 9:37AM jsummers																				PAVEMEN
() 8521\roadway\sheets\88521GSOO2.dg																				SEN-19-0.00

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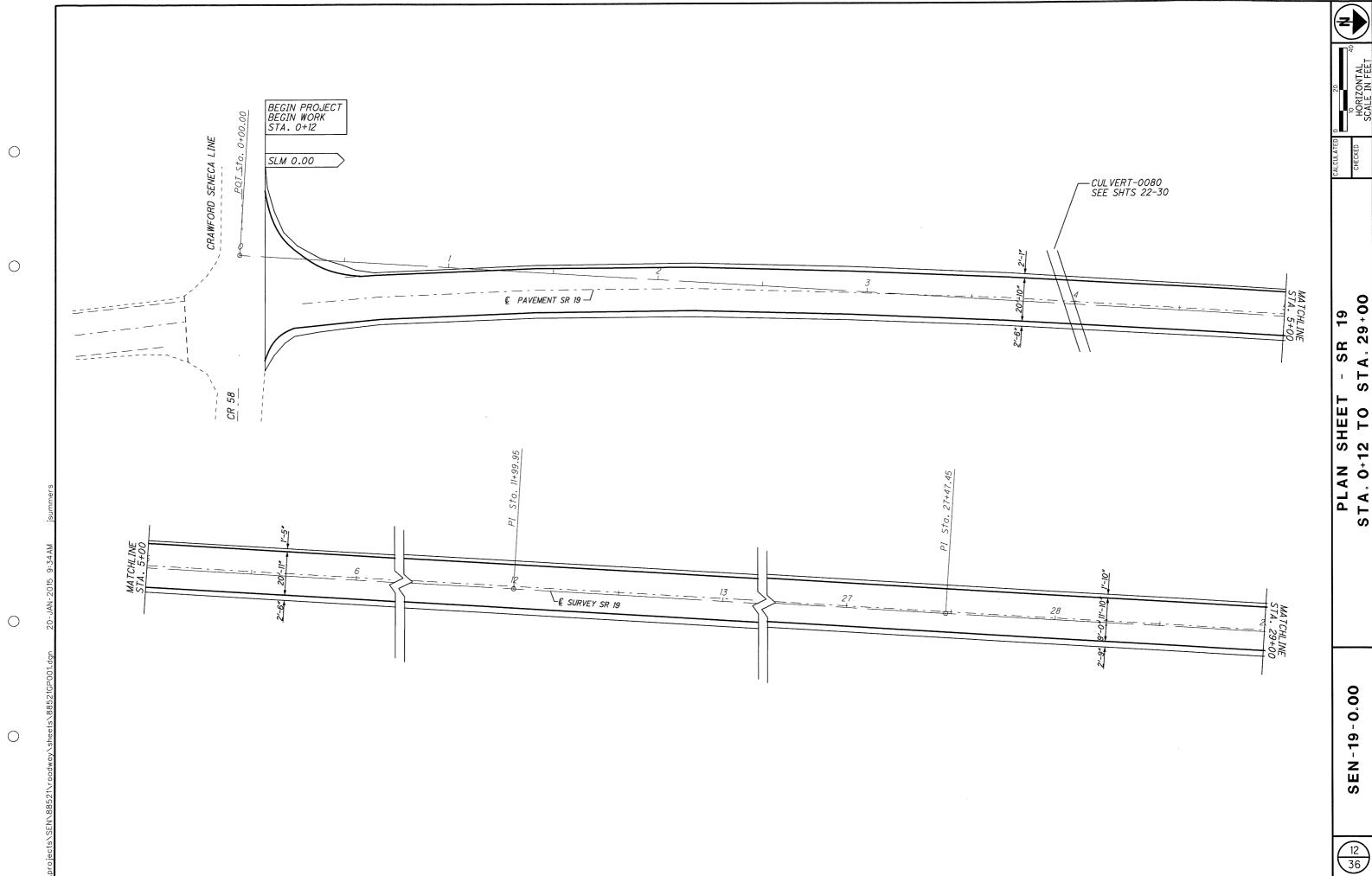
1	11	1
abla	36	7

						202		6	08		659
SHEET NO.	REFERENCE NO.	ROUTE	STATION	SIDE	NEAREST CROSS STREET NAME	WALK REMOVED	CURB RAMP, TYPE A1	CURB RAMP, TYPE A2	CURB RAMP, TYPE B2	CURB RAMP, TYPE D	SEEDING AND MULCHING
	<u> </u>					SQ FT	SQ FT	SQ FT	SQ FT	SQ FT	SQ YD
22	CR-1	SR 19	198+09	RT	BEEGHLY AVE.	45		45			
22	CR-2	SR 19	198+50	RT	BEEGHLY AVE.	89				89	
24	CR-3	SR 19	199+47	LT	BLEGILI AVE.	88	88				
24	CR-4	SR 19	199+47	RT		89			89		
24	CR-5	SR 19	202+56	RT	STOUT ST.	52		52			
24	CR-6	SR 19	202+74	RT	STOUT ST.	61		61			
24	CR-7	SR 19	202+62	LT	STOUT ST.	48		48			
24	CR-8	SR 19	202+77	LT	STOUT ST.	50		50			
24	CR-9	SR 19	204+80	RT	COLLEGE ST.	54		54			
24	CR-10	SR 19	205+08	RT	COLLEGE ST.	96		96			
24	CR-11	SR 19	205+16	LT	COLLEGE ST.			42			
24	CR-12	SR 19	204+88	LT	COLLEGE ST.	33					4
24	CR-13	SR 19	208+08	RT	ELLEN ST.	61		70		61	
25	CR-14	SR 19	208+32	RT	ELLEN ST.	39		39			
25	CR-15	SR 19	208+06	LT	ELLEN ST.	40		40		60	
25	CR-16	SR 19	208+31	LT	ELLEN ST. LIBERTY ST.	60 200			200	00	
24	CR-17	SR 19	211+60	RT	LIBERTY ST.	39		39	200		
25 25	CR-18 CR-19	SR 19 SR 19	211+17 211+54	LT LT	LIBERTY ST.	260		33		260	
25 25	CR-20	SR 19	211+34	RT	NEW HAVEN ST.	198				198	
24	CR-21	SR 19	214+36	LT	NEW HAVEN ST.	244		1		244	
<u>24</u> 25	CR-22	SR 19	214+91	RT	NEW HAVEN ST.	280				280	
25	CR-23	SR 19	214+91	LT	NEW HAVEN ST.	241				241	
25	CR-24	SR 19	220+35	LT	KOHLER ST.	63		63			
24	CR-25	SR 19	220+62	LT	KOHLER ST.	64		64			
25	CR-26	SR 19	223+77	LT	EARL AVE.	50		50			
25	CR-27	SR 19	223+98	LT	EARL AVE.	63		63			
	CAPRIER TO	GENERAL SUM	MADV			2607	88	806	289	1433	4 *

* CARRIED TO GENERAL NOTES

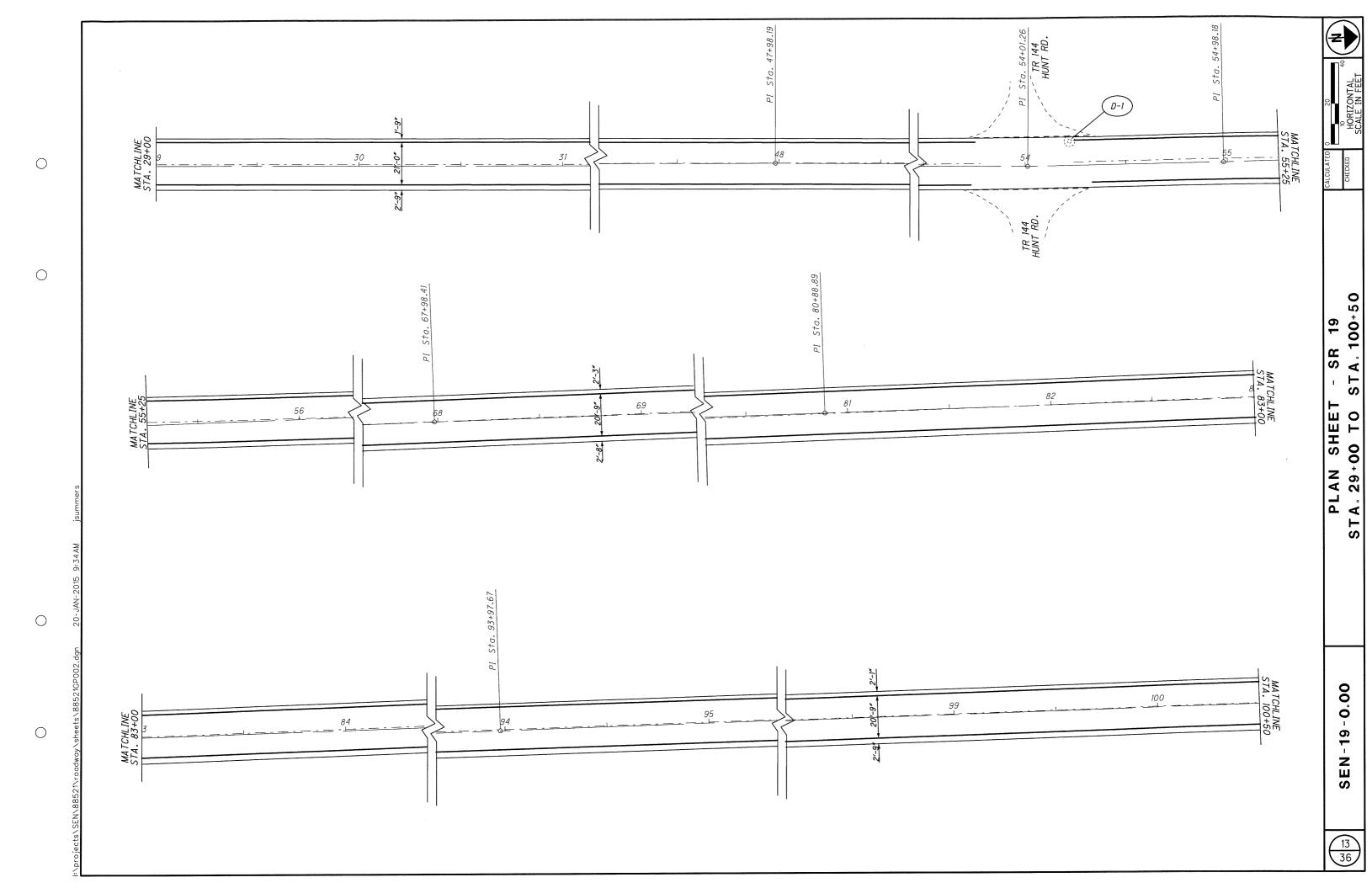
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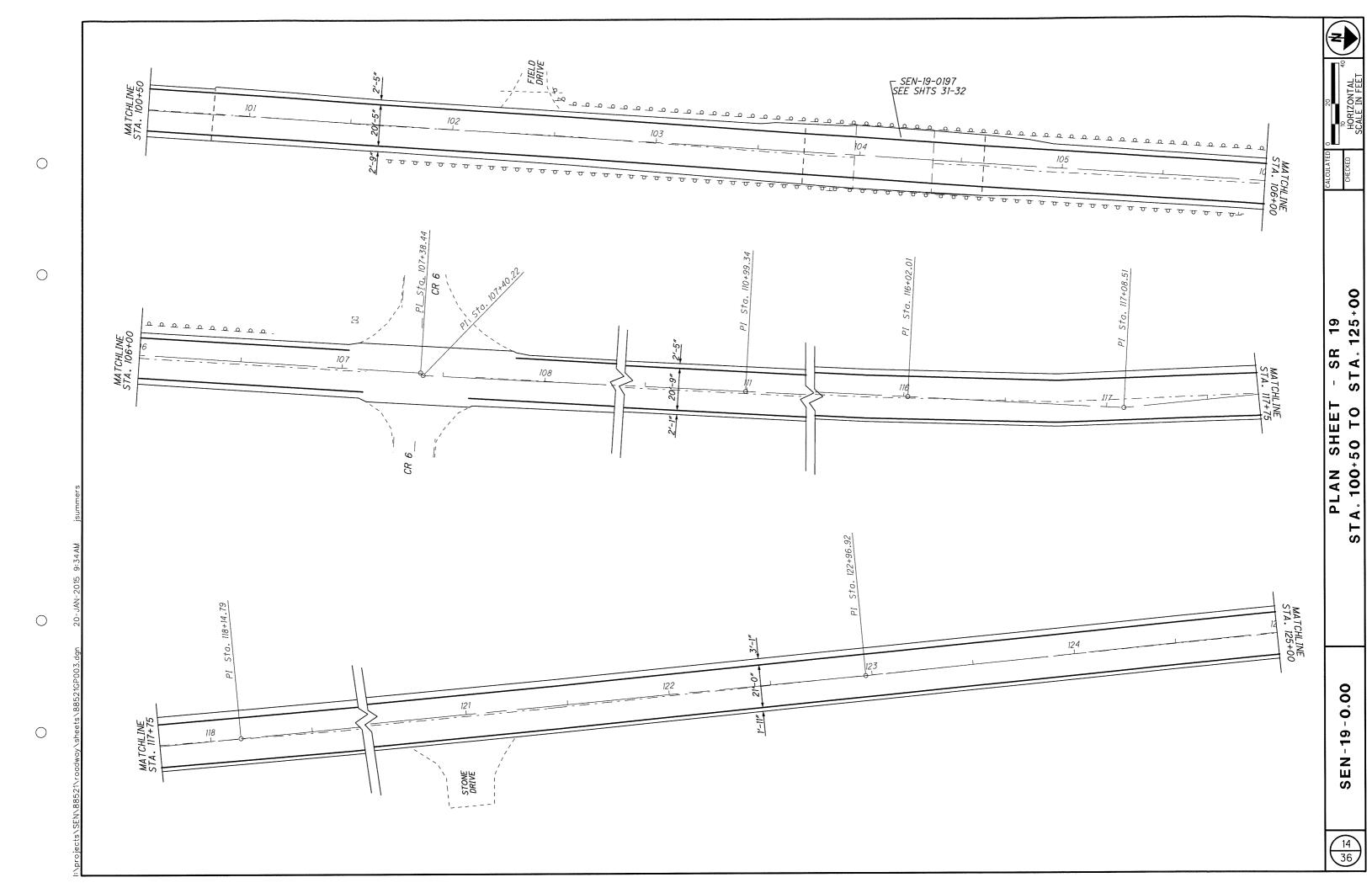
		DRAINAGE		
			604	638
SHEET No.	REFERENCE No.	CATCH BASIN ADJUSTED TO GRADE	MANHOLE ADJUSTED TO GRADE	WATER VALVE ADJUSTED TO GRADE
		EACH	EACH	EACH
17	D-1		1	
17	D-2			1
17	D-3			1
17	D-4	1		1
17	D-4 D-5	1		
17	D-6	1		
17	D-7	1		
17	D-8		1	
17	D-9	1		W. W. C.
18	D-13	1		
18	D-14	1		
18	D-15			1
18	D-16	1		
18	D-17	1		
18	D-18	1		
18	D-19	1		
18	D-20		1	
18	D-21	1		
18	D-22			1
18	D-23	1		
18	D-23 D-24	1		
18	D-25	1		
18	D-25 D-26			1
18	D-27	1		<u> </u>
18	D-27 D-28	'		1
18	D-29	1		†
18	D-30			1
17	D-31			l i
- 11	0 01			1

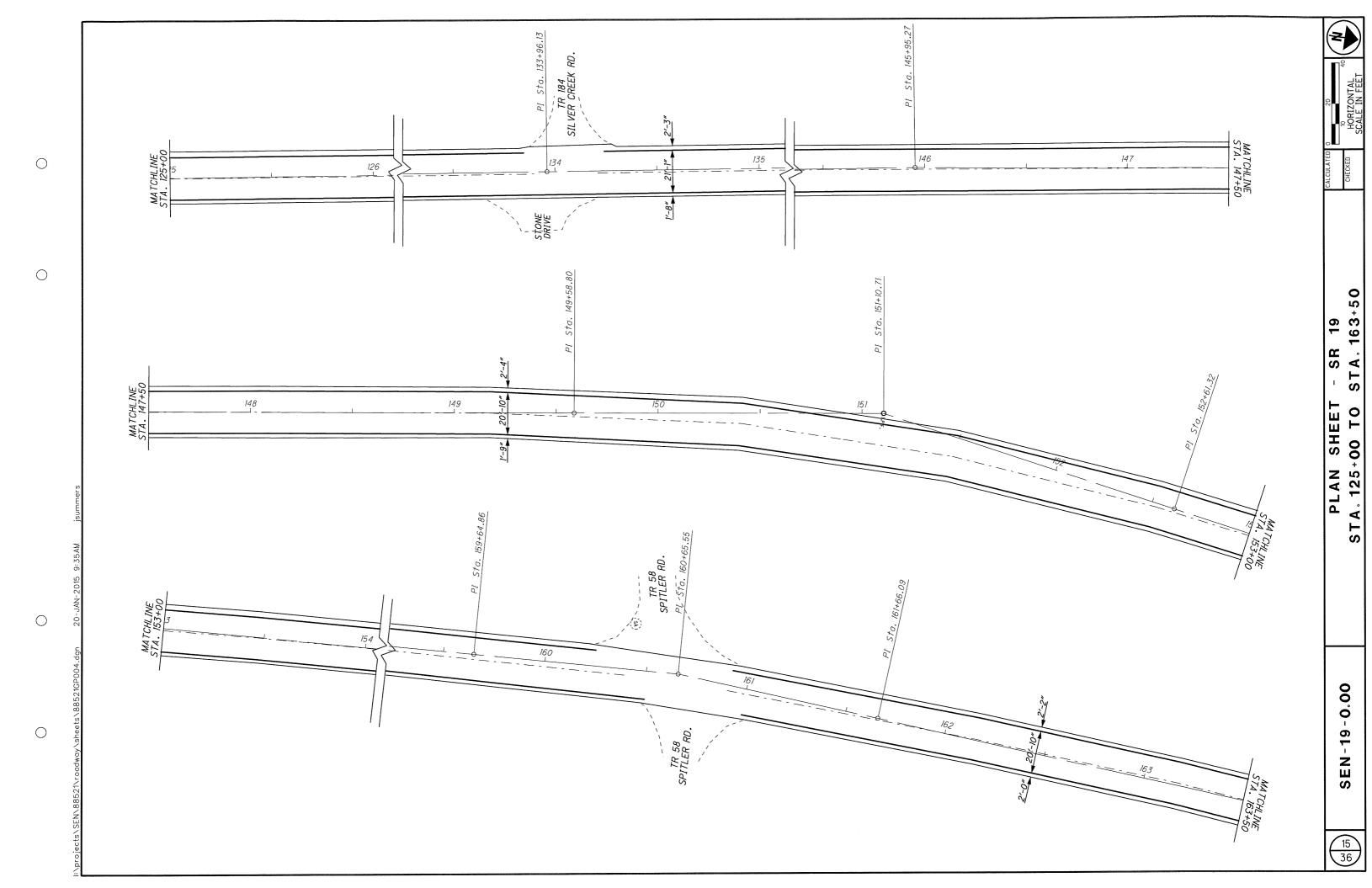


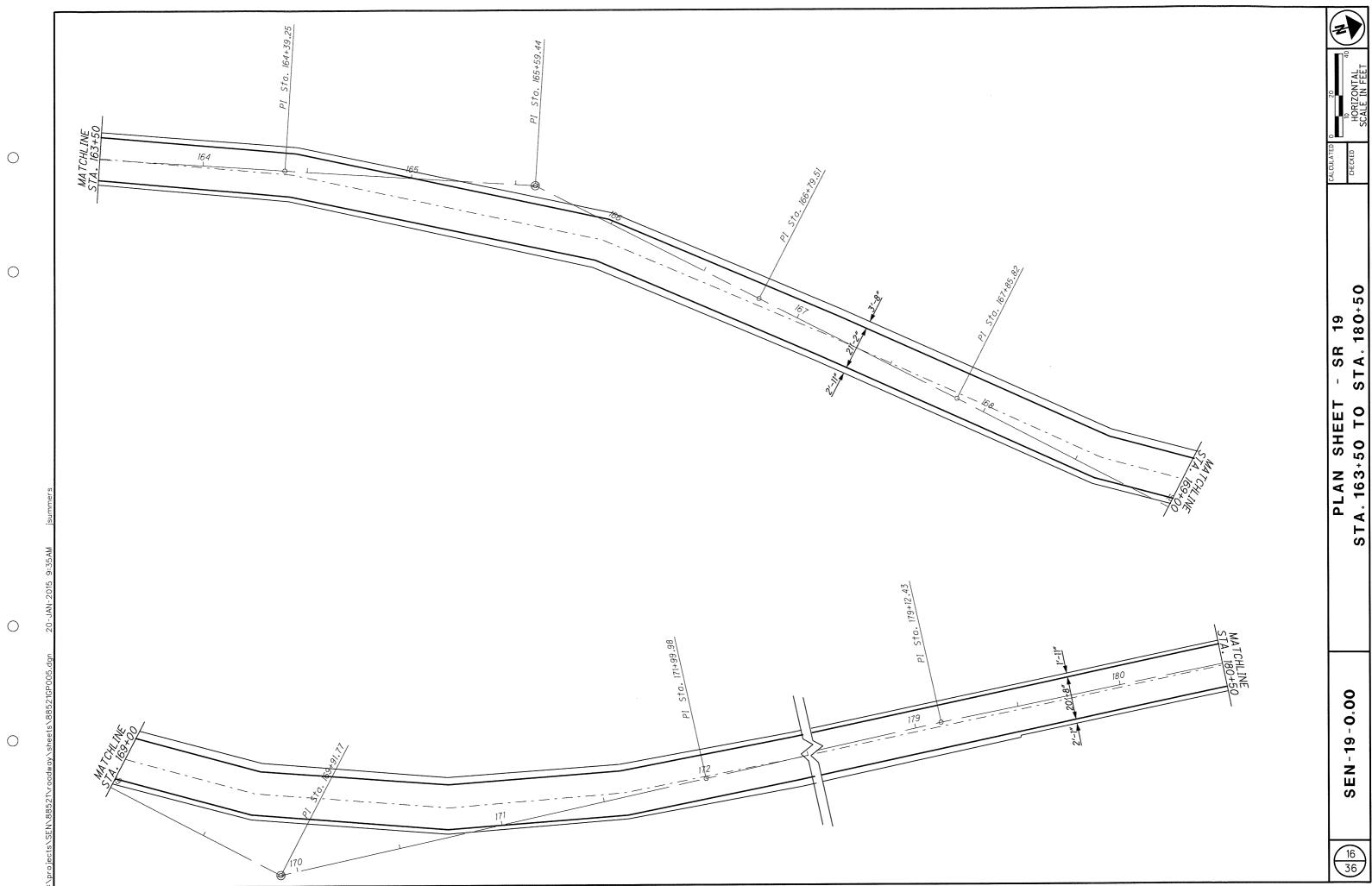
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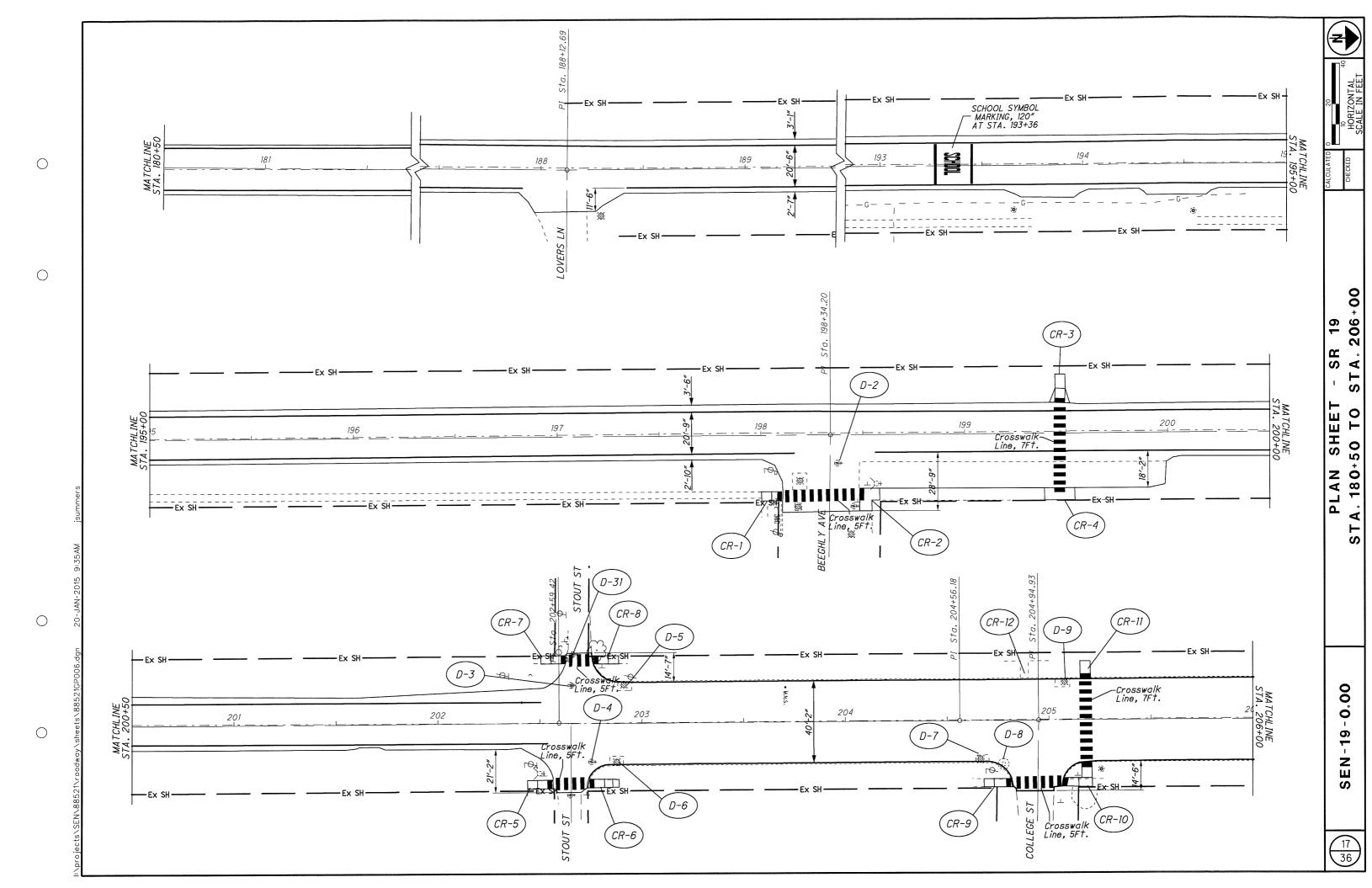
STA. 0+12

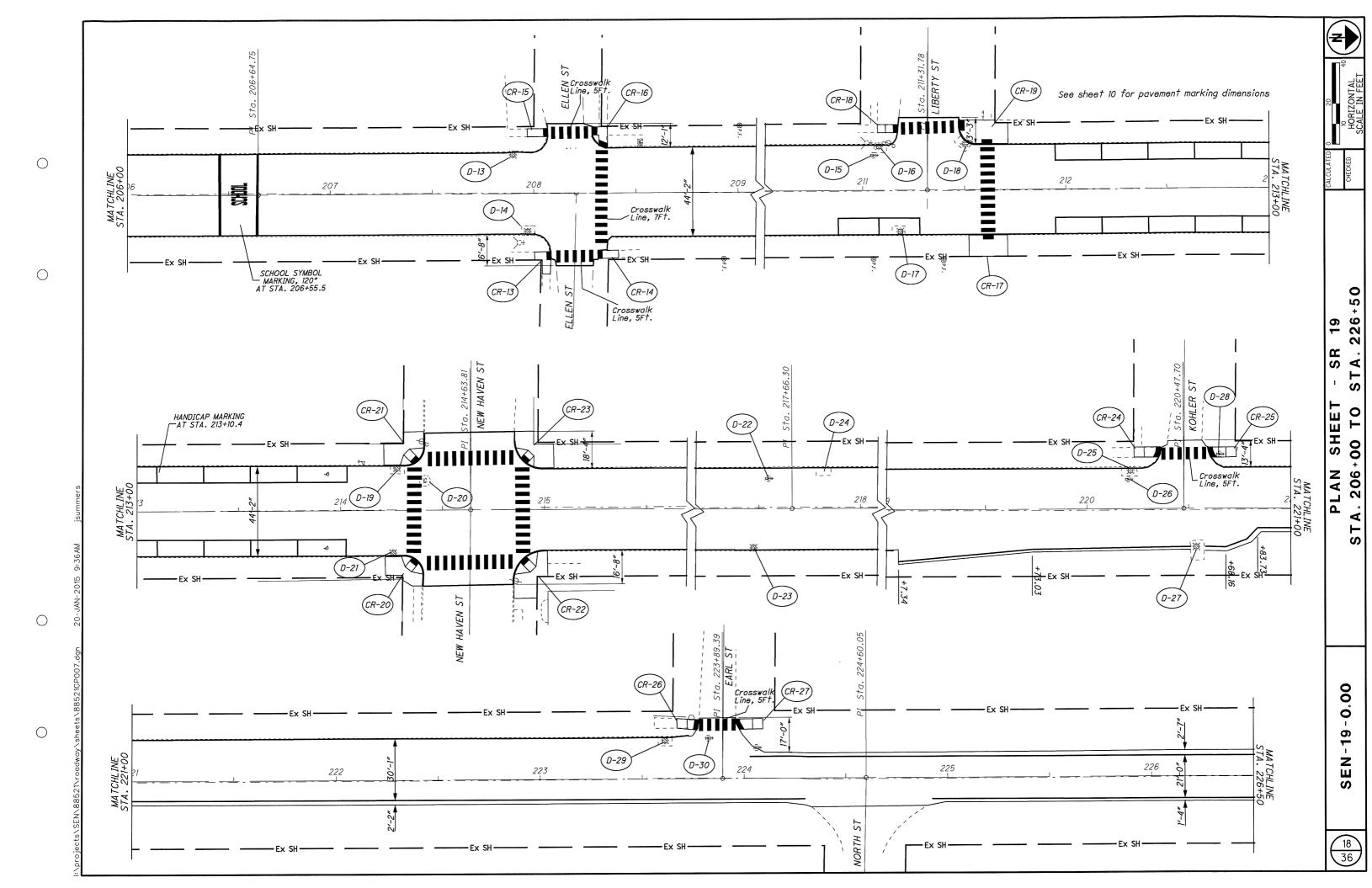


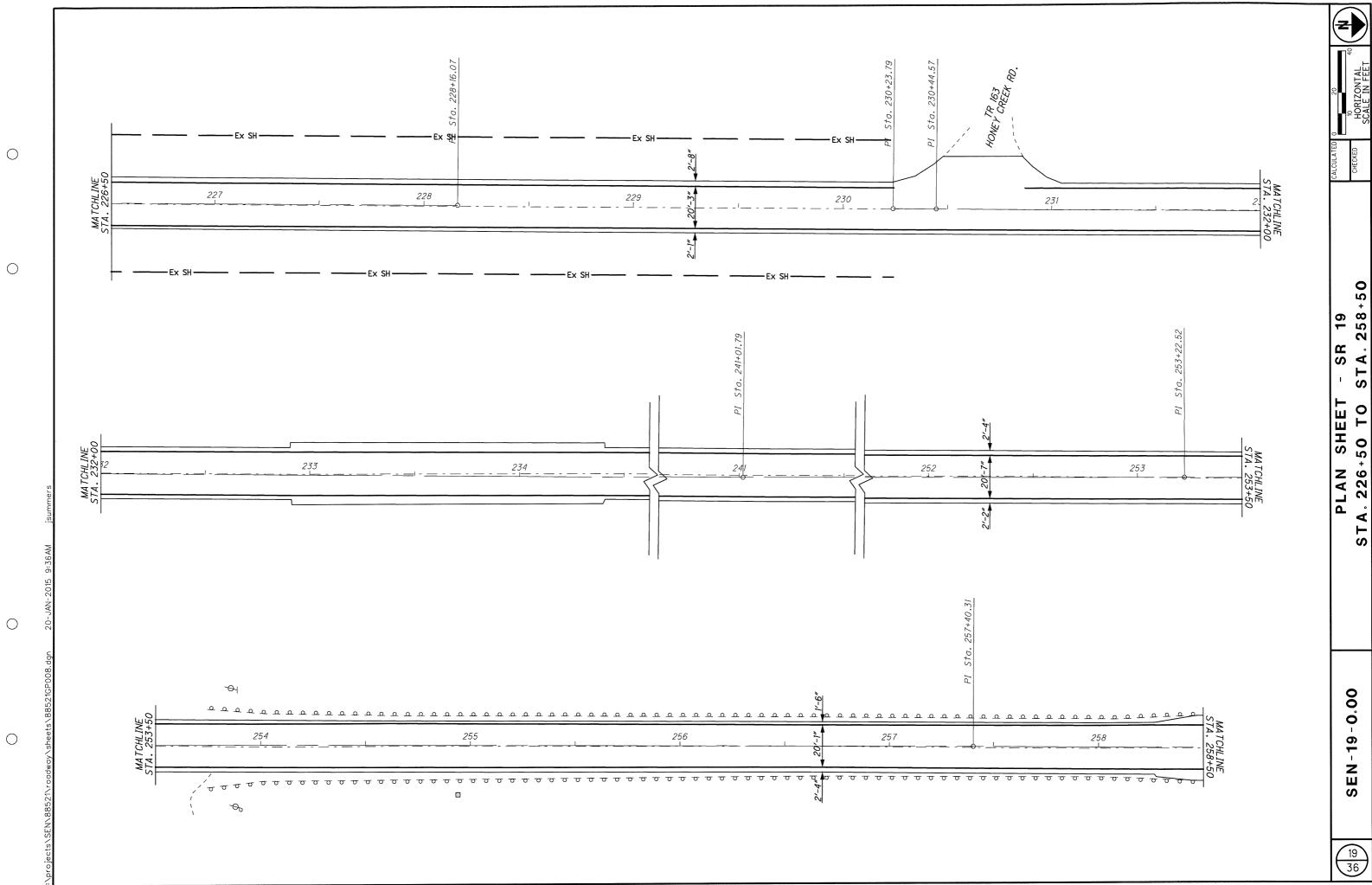




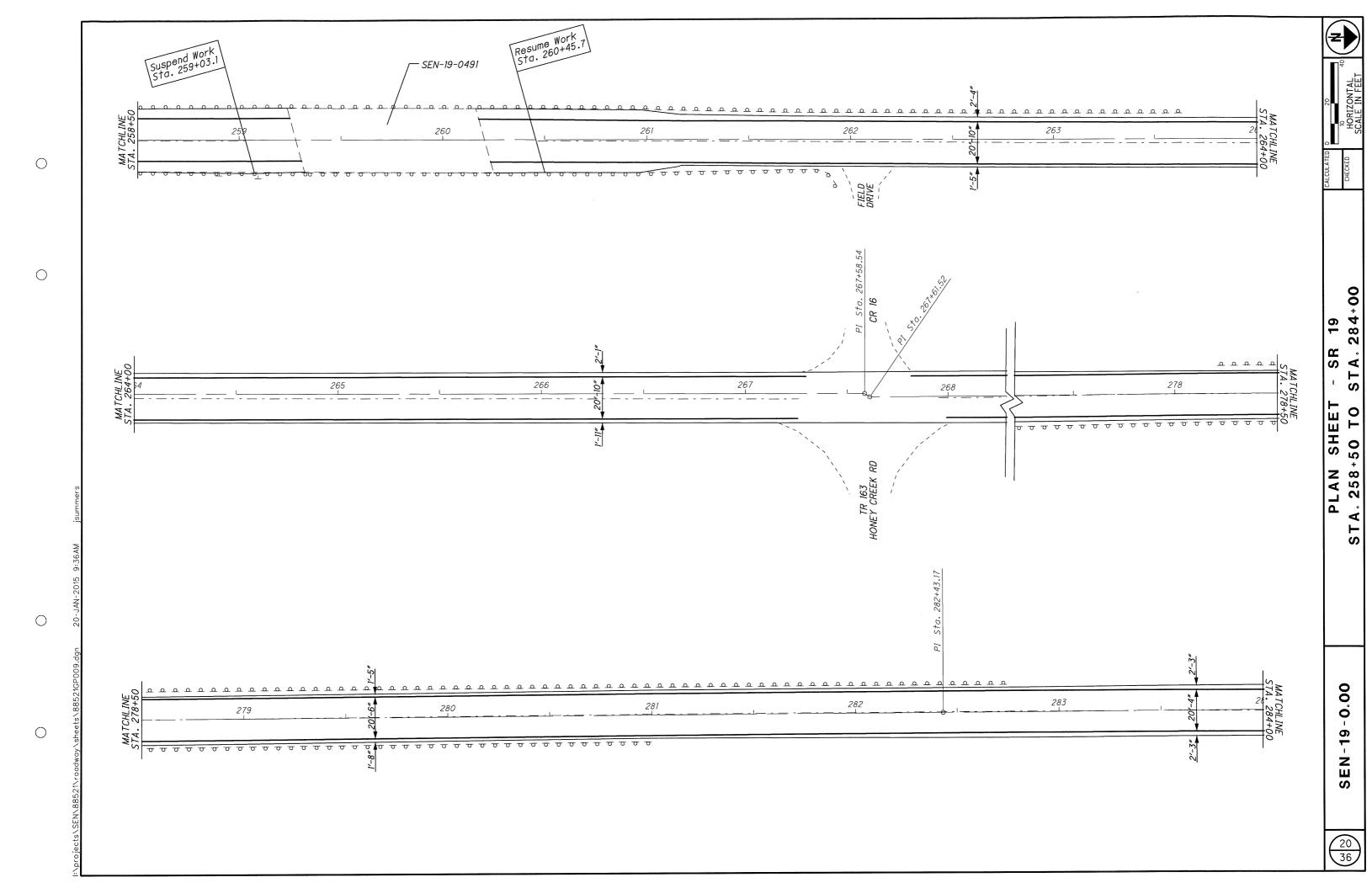


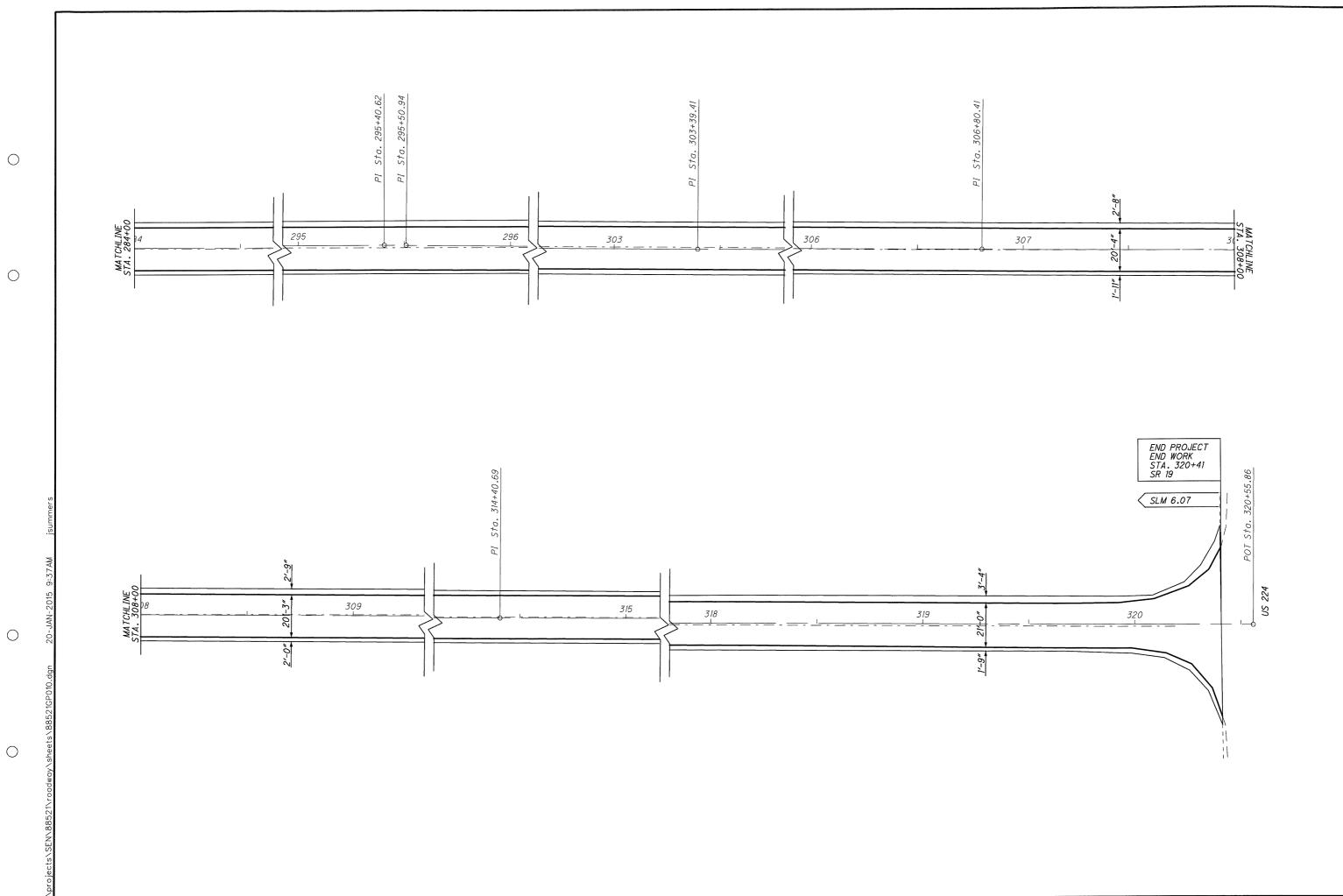






PLAN SHEET STA. 226+50 TO





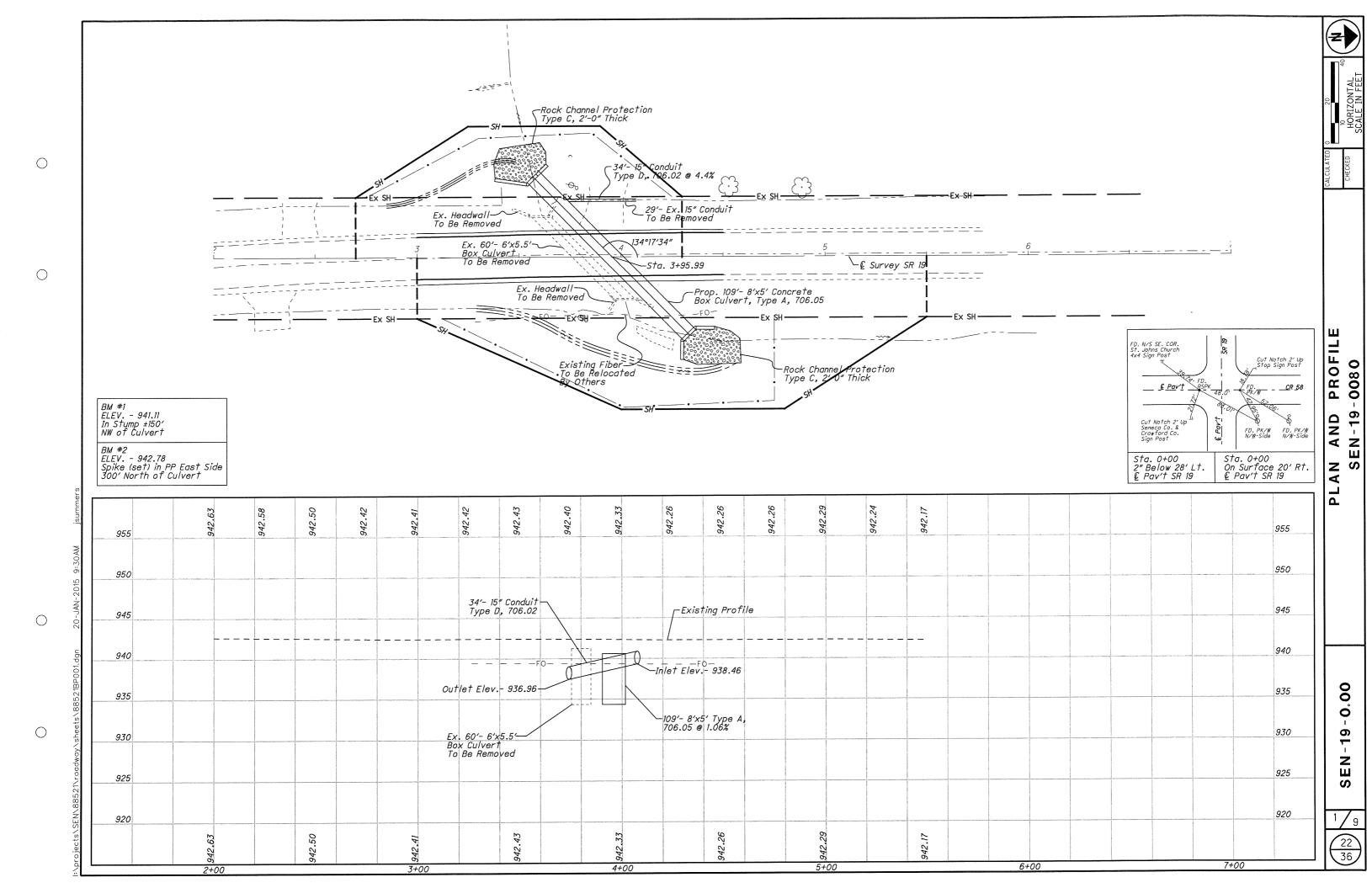
10 HORIZONTAL SCALE IN FEET

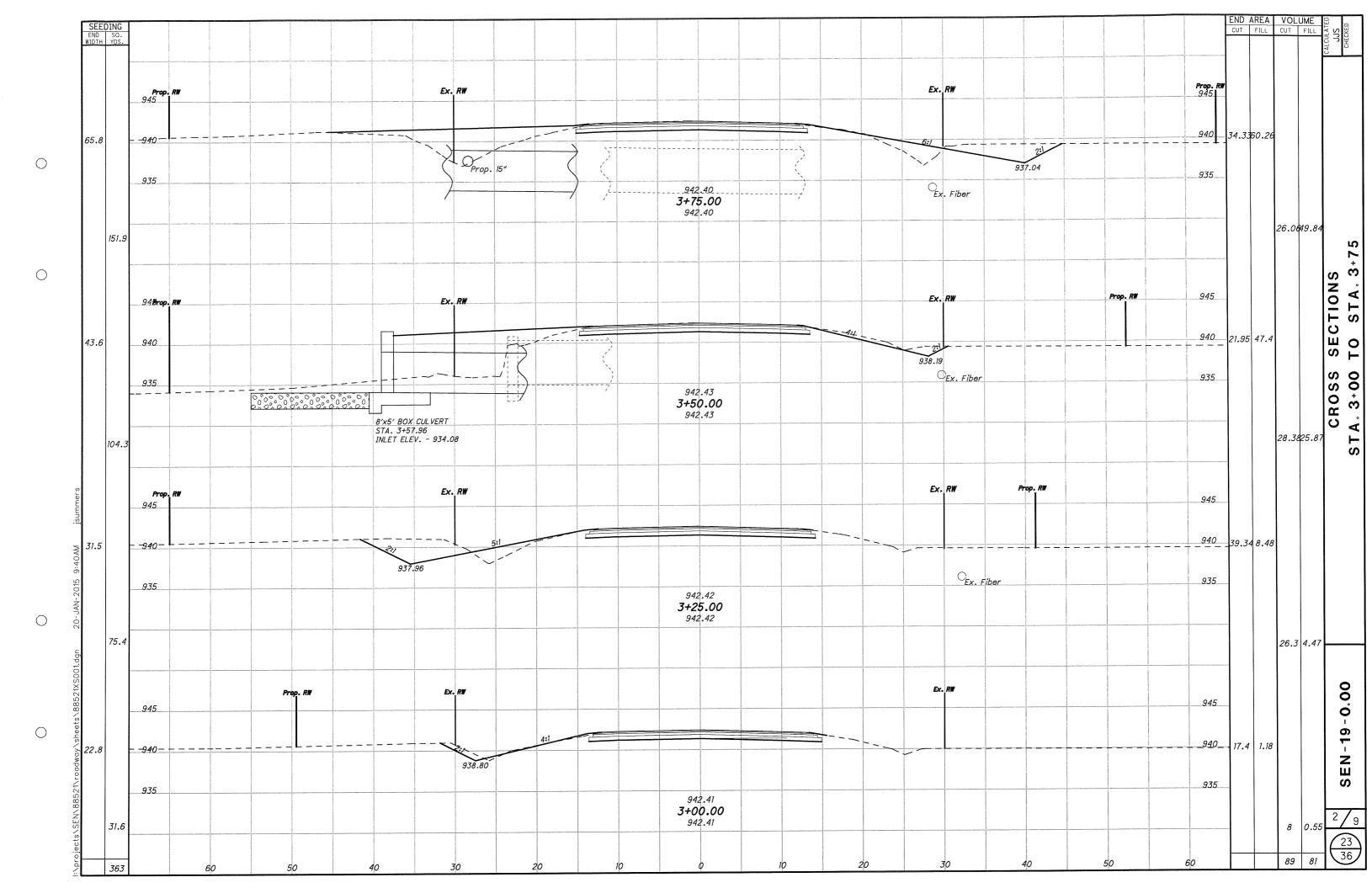
- SR 19 STA, 320+41

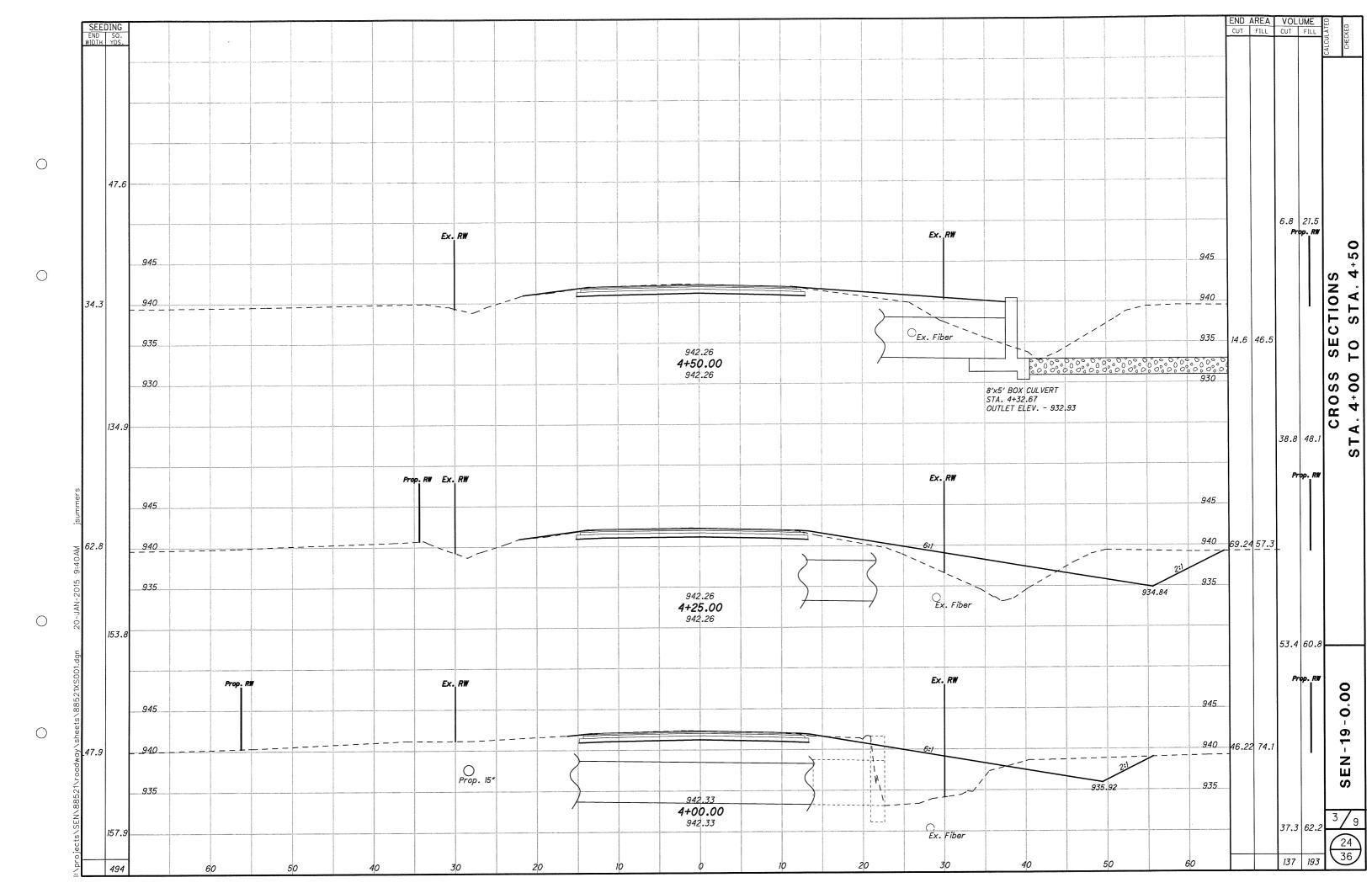
PLAN SHEET STA. 284+00 TO

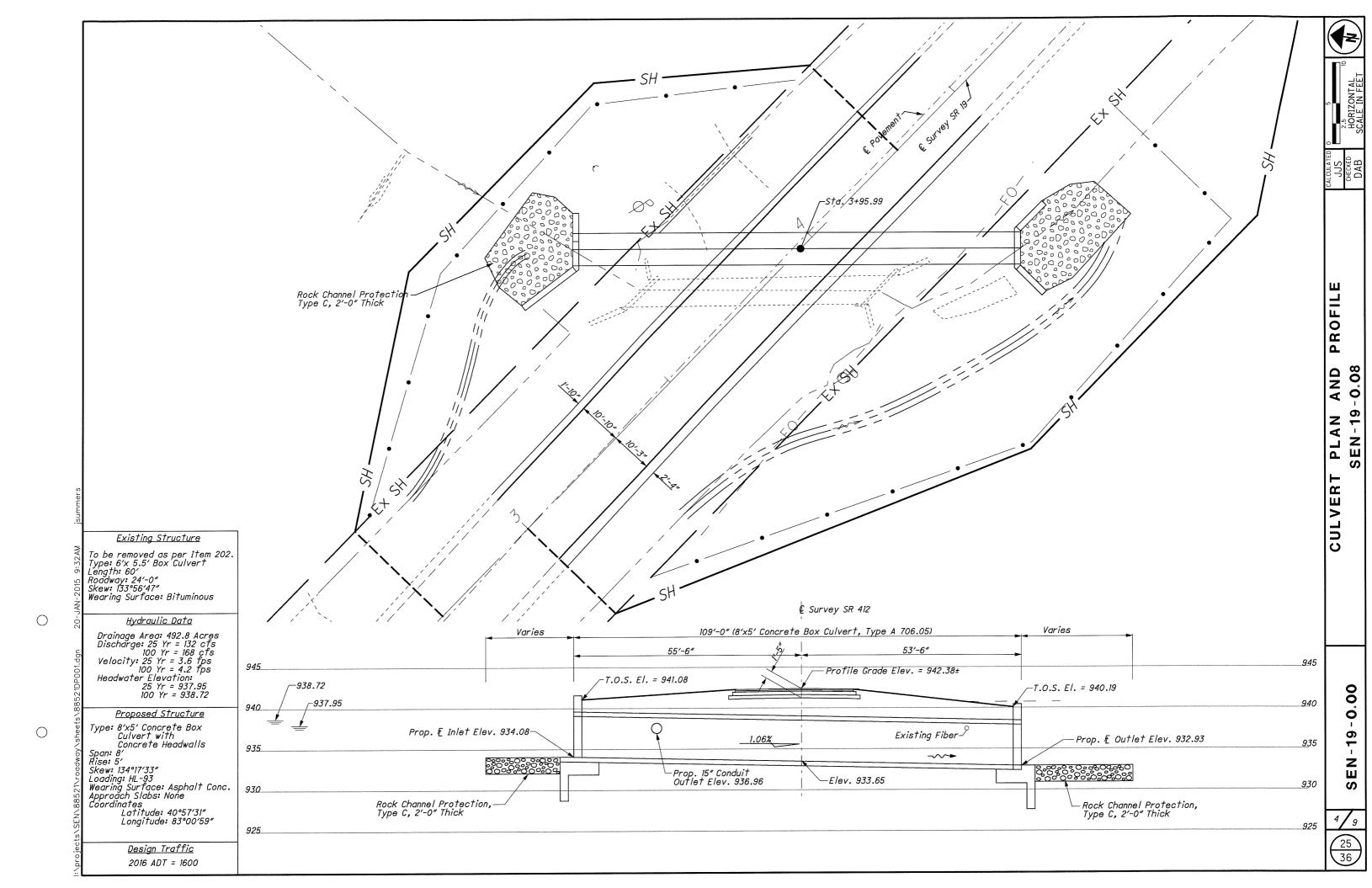
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OFFICE OF STRUCTURAL ENGINEERING

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ESTIMATED QUANTITIES								
ITEM	ITEM EXT.	UNIT	TOTAL	DESCRIPTION	CULVERT	HEADWALLS	GEN.	SHEET
202	11000	W 1000 - 100	LUMP	STRUCTURE REMOVED			LUMP	
202	20010	EACH	2	HEADWALL REMOVED			_	
503	11100		LUMP	COFFERDAMS AND EXCAVATION BRACING				
503	21100	CU YD	210	UNCLASSIFIED EXCAVATION		_		
509	10000	POUND	3132	EPOXY COATED REINFORCING STEEL		-		
511	46010	CU YD	34	CLASS QC1 CONCRETE		-		
					-	-		
512	10050	SQ YD	31	SEALING OF CONCRETE SURFACES (NON-EPOXY)				
512	33000	SQ YD	218	TYPE 2 WATERPROOFING				
516	13600	SQ FT	3	1" PREFORMED EXPANSION JOINT FILLER	-			
518	21200	CU YD	2	POROUS BACKFILL WITH FILTER FABRIC				
601	32104	CU YD	6	ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER				
611	06400	FT	34	15" CONDUIT, TYPE D				
611	94900	FT	109	8' X 5' CONDUIT, TYPE A, 706.05				

GENERAL NOTES

DESIGN SPECIFICATIONS: THIS STANDARD DRAWING CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA: THE FOLLOWING DESIGN DATA IS ASSUMED:

INTERNAL ANGLE OF FRICTION () = 30 DEGREES
COEFFICIENT OF FRICTION () = 0.30
UNIT WEIGHT OF SOIL = 120 PCF
UNIT WEIGHT OF CONCRETE = 150 PCF
SLOPE OF BACKFILL = 2:1 (TYPE A & B HEADWALLS)
HEIGHT OF LIVE LOAD SURCHARGE = 2 FT (TYPE C HEADWALLS)
MAXIMUM FOUNDATION BEARING PRESSURE = 2000 P.S.F.

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4000 PSI (FOOTING, WINGWALL AND FORESLOPE WALL)

REINFORCING STEEL - ASTM A615, A616, OR A617 GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI (ALL REINFORCING SHALL BE FPOXY COATED)

PRECAST CONCRETE: AT THE OPTION OF THE CONTRACTOR, PRECAST WINGWALLS MAY BE USED PROVIDED THEY ARE SIZED TO MEET THE SOIL PARAMETERS AND MEET OR EXCEED THE MATERIAL STRENGTHS SPECIFIED HEREIN. THE CONTRACTOR SHALL SUBMIT DESIGNS AND SHOP DRAWINGS TO THE OFFICE OF STRUCTURAL ENGINEERING FOR APPROVAL.

BACKFILL LIMITATION: WHEN THE DESIGN HEIGHT IS GREATER THAN 10 FT, THE BACKFILL BEHIND THE WINGWALLS SHALL NOT BE PLACED HIGHER THAN THE ELEVATION OF THE SOIL ABOVE THE TOE. WHEN THE SOIL ABOVE THE TOE IS AT ITS FINISHED ELEVATION, THE REMAINDER OF THE BACKFILL MAY BE PLACED.

ITEM 511 WINGWALLS OR HEADWALLS FOR 611 ITEMS

FOR ITEMS 706.05, 706.051, 706.052 AND 706.053 WITH A CAST-IN-PLACE WINGWALL OR HEADWALL A PRECAST ALTERNATIVE MAY BE FURNISHED PER 611.03. THE PRECAST ALTERNATIVE WILL MEET THE CAST-IN-PLACE STRUCTURAL DESIGN LOADINGS, DESIGN HEIGHT, AND DESIGN LENGTH DIMFNSIONS.

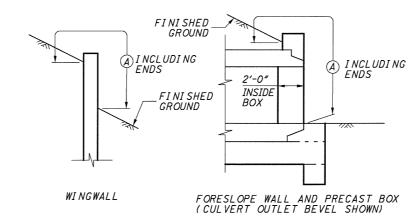
FULL COMPENSATION FOR THE PRECAST WINGWALL OR HEADWALL IS THE NUMBER OF CUBIC YARDS OF ITEM 511 AND POUNDS OF ITEM 509 FOR THE CORRESPONDING CAST-IN-PLACE STRUCTURE.

POROUS BACKFILL WITH FILTER FABRIC 1'-6" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6" ABOVE THE TOP ELEVATION OF THE WEEPHOLE.

WEEPHOLES SHALL BE PLACED 6" TO 12" ABOVE THE NORMAL WATER ELEVATION OR GROUND LINE AND SHALL HAVE A MAXIMUM SPACING OF 10'-0". A MINIMUM OF ONE WEEPHOLE SHALL BE PROVIDED PER WINGWALL.

PREFORMED EXPANSION JOINT FILLER: PREFORMED EXPANSION JOINT FILLER (PEJF) CONFORMING TO CMS 705.03, I INCH THICK, SHALL BE PLACED ABOVE THE FOOTING BETWEEN THE SIDES OF THE BOX CULVERT AND THE ENDS OF THE WINGWALLS. PAYMENT FOR MATERIALS AND INSTALLATION SHALL BE INCLUDED WITH ITEM 516 - 1" PREFORMED FYPANSION JOINT FILLER.

SEALING OF FORESLOPE WALL AND WINGWALLS: ALL EXPOSED FORESLOPE WALL AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS BELOW. PAYMENT FOR THE EPOXY-URETHANE SEALER SHALL BE PER ITEM 512 - SEALING OF CONCRETE SURFACES.

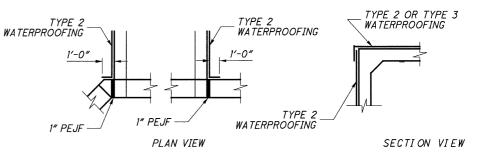


LIMITS OF ITEM 512-SEALING CONCRETE SURFACES
(A) - SEAL ENTIRE CONCRETE SURFACE AREA

WATERPROOFING: TYPE 2 WATERPROOFING, PER CMS 512.09 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

IF PAVEMENT IS NOT PLACED DIRECTLY ON TOP OF THE CULVERT, TYPE 2 WATERPROOFING, PER CMS 512.09 AND 711.25 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

IF PAVEMENT IS TO BE USED DIRECTLY ON TOP OF THE CULVERT, TYPE 3 WATERPROOFING, PER CMS 512.10 AND 711.29 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 3 WATERPROOFING.

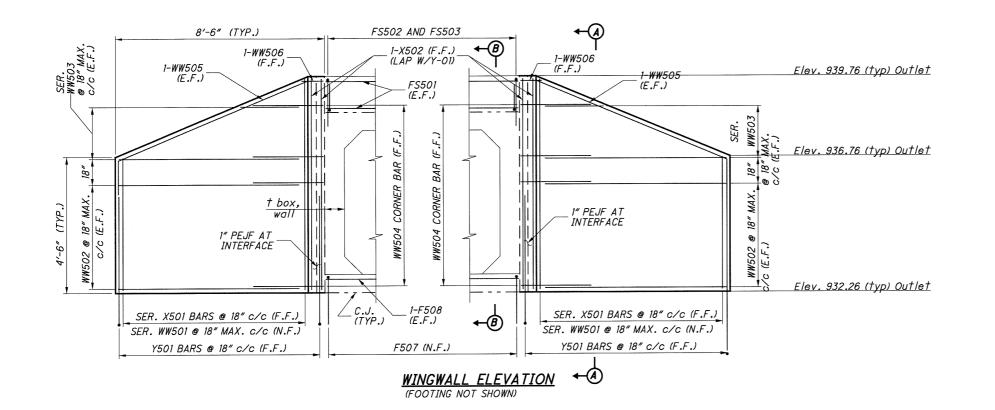


WATERPROOFING DETAILS

BASIS OF PAYMENT: ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO CONSTRUCT THE FOOTING, CUTOFF WALL, WINGWALLS AND FORESLOPE WALL SHALL BE INCLUDED WITH ITEM 511 - CLASS C CONCRETE (RET-WALL/WINGWALL-INCLUDING FOOTING). PAYMENT FOR REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 509 - EPOXY COATED REINFORCING STEEL.

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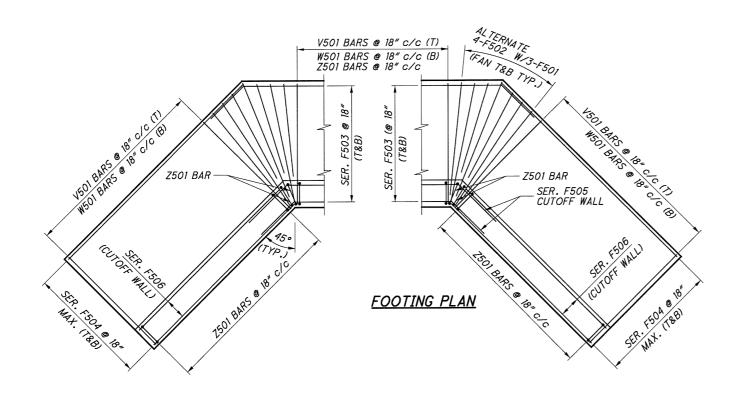
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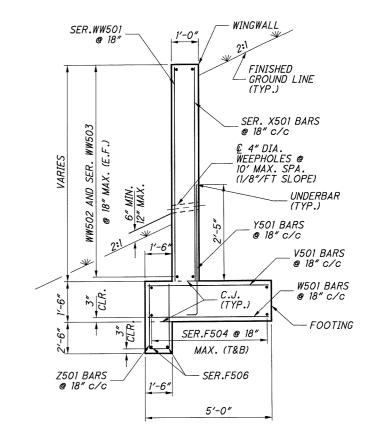


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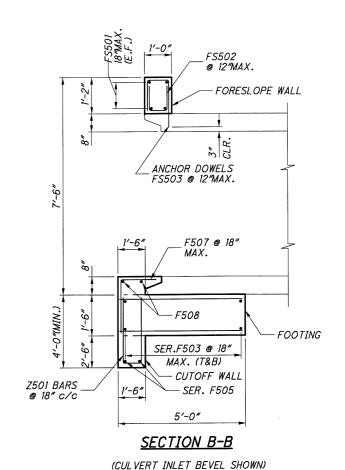
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SECTION A-A (POROUS BACKFILL NOT SHOWN FOR CLARITY)



					WIN	IGWALLS			
	2	4'- 4"							
X501	SERIES	TO	86	STR.					0'- 6 "
	of 7	7'- 4"							
X502	4	7'- 4"	31	STR.					
Y501	18	4'- 0"	76	1	0'- 6"	3'- 8"			
	2	4'- 4"							
WW501	SERIES	TO	86	STR.					0'- 6 "
	of 7	7'- 4"							
WW502	12	8'- 2"	103	STR.					
	4	4'- 1''							
WW503	SERIES	TO	52	STR.					4'- 1 "
	of 2	8'- 2"							
WW504	10	3'- 6"	37	2	0'- 7"	0'- 2 "	2'- 1/4"	2'- 10 "	
WW505	4	11'- 1''	47	3	2'- 5"	2'- 10"	8'- 2''		
WW506	2	1'- 1''	3	4	0'- 7''	0'- 2 "			
					FOOTING 8	& CUTOFF WALL			
V501	21	4'- 8''	103	STR.					
W501	21	4'- 8''	103	STR.					
Z501	25	8'- 2"	213	5	3'- 7"	1'- 2"			
F501	12	4'- 3"	54	STR.					
F502	16	3'- 4"	56	STR.					
	2	13'- 4''					8'- 4 3/4"		
F503	SERIES	TO	160	6	1'- 9''	1'- 9"	TO		0'- 11 5/8
	of 5	17'- 2"					12'- 3 1/4"		
	4	7'- 9''							
F504	SERIES	TO	182	STR.					0'- 5 3/4
	of 5	9'- 8''							
	1	13'- 4''					8'- 4 3/4"		
F505	SERIES	TO	29	6	1'- 9''	1'- 9"	TO		0'- 11 3/4
	2	14'- 4''					9'- 4 1/2"		
	2	7'- 9''							
F506	SERIES	TO	34	STR.					0'- 5 '
	2	8'- 2"							
F507	7	3'- 3"	24	1	1'- 6"	1'- 10"			
F508	2	9'- 0"	19	STR.					
					FORES	SLOPE WALL			
FS501	4	9'- 0"	38	STR.					
FS502	10	2'- 1"	22	5	0'- 10''	0'- 8"			
FS503	10	2'- 8"	28	7	0'- 10''	0'- 8"	1'- 5"		
		TOTAL	1,586						

BAR TYPE DIMENSIONS

INC.

TYPE A HEADWALL REINFORCING SCHEDULE

WEIGHT (LBS.)

LENGTH

TYPE

BAR MARK

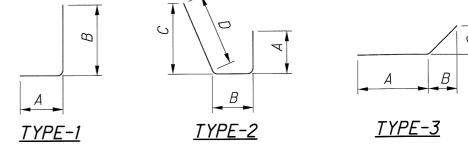
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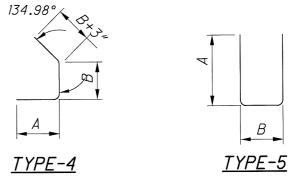
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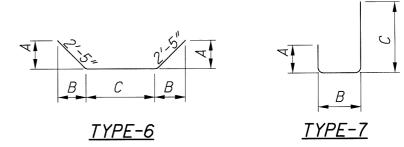
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NUMBER







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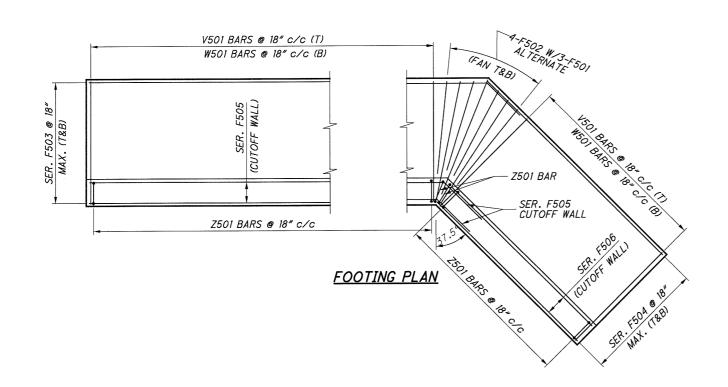
FS502 AND FS503 15′-9″ 4'-0" **←(A**) 1-WW506| **←**B 1-X 02 (F.F.) (LAP W/Y-01) 1-WW510 (E.F.) 1-WW505 Elev. 940.91 (typ) Intlet (F.F.) (E.F.) FS501 (E.F.) 18" WW509 (MAX.)@ 18" MAX. SER.
WW503
18" MAX (F.F.) Elev. 937.91 (typ) Inlet BAR CORNER WW502 @ 18" MAX. MAX. 1" PEJF AT INTERFACE 3′-6″ @ 18" (E.F.) WW504 1" PEJF WW508 Elev. 933.91 (typ) Inlet 1-F508 (E.F.) C.J. (TYP.) SER. X501 BARS @ 18" c/c (F.F.) SER. X503 BARS @ 18" c/c (F.F.) **←**(B) SER. WW501 @ 18" MAX. c/c (N.F.) SER. WW507 @ 18" MAX. c/c (N.F.) Y501 BARS @ 18" c/c (F.F.) F507 (N.F.) Y501 BARS @ 18" c/c (F.F.) **←**(A) WINGWALL ELEVATION (FOOTING NOT SHOWN)

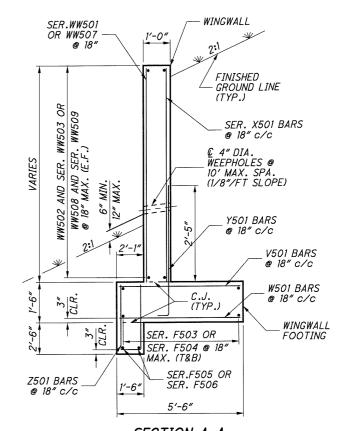
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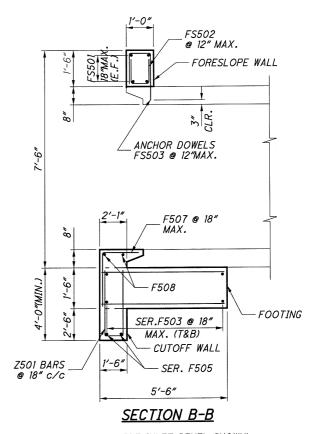
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SECTION A-A

(POROUS BACKFILL NOT SHOWN FOR CLARITY)



(CULVERT INLET BEVEL SHOWN)

9 /	9
(30	
36	

BAR			WEIGHT	l m					
MARK	NUMBER	LENGTH	(LBS.)	TYPE			DIMENSIONS		INC.
					A WINGW	B	С	D	
	1	4'- 4"		Т	MINGN	ALLJ			
X501	SERIES	TO	74	STR.					0'- 3 3/8"
7001	of 12	7'- 4"	- ' '	3771.					
X502	2	7'- 4"	16	STR.					
7002	1	3'- 4"	10	37/1.					
X503	SERIES	TO	23	STR.					1'- 4 "
7000	of 4	7'- 4"	25	3771.					
Y501	18	4'- 0"	76	1	0'- 6"	3'- 8"			
7007	70	, ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					,	
	1	4'- 4"							
WW501	SERIES	TO	74	STR.					0'- 3 3/8"
	of 12	7'- 4"							
WW502	6	15'- 5''	97	STR.					
	2	7'- 9''							
WW503	SERIES	TO	49	STR.					7′- 8 ″
	of 2	15'- 5''							
WW504	5	4'- 0"	21	2	0'- 7"	0'- 5 1/4"	2'- 10 1/2"	3'- 11/4"	
WW505	2	18'- 1''	38	3	2'- 5"	2'- 10"	15'- 5"		
WW506	1	1'- 7''	2	8	0'- 7"	0'- 5 1/4"			
	1	3'- 4"							
WW507	SERIES	ТО	23	STR.					1'- 4 "
	of 4	7'- 4"		ļl					
WW508	6	3'- 8"	23	STR.					
	2	1'- 3''							1/ 0.1/0//
WW509	SERIES	ТО	16	STR.					1'- 2 1/2"
	of 3	3'- 8''		<u> </u>		7/ ///	7/ 0//		
WW510	2	7'- 9"	17	3	2'- 5"	3'- 10"	3'- 8"		
					FOOTING & C	CUTOEE WALL	<u></u>		L
1/501	00	54 044	100	CTD	FOOTING & C	UIUFF WALL			1
V501	20	5'- 2"	108	STR.					
W501	20	5'- 2"	108	STR.	3'- 7"	1'- 2"			
Z501	22	8'- 2"	188	5	3'- /"	1- 2			
FF.0.1	_	4/ 0//	70	CTD					
F501 F502	6 8	4'- 8'' 3'- 8''	30	STR.					
F3U2	2	14'- 4"	31	JIT.	11'- 10 3/4"				
EE03	SERIES	TO	168	3	TO 574	0'- 11 1/4"	2'- 3 "		0'- 10 1/2"
F503	of 5	17'- 10"	100		15'- 4 1/4"	0 11 1/7			0 10 17 2
	2	14'- 3"		+	IU 7 1/7				
F504	SERIES	14 - 3 TO	167	STR.					0'- 10 1/2"
1 304	of 5	17'- 9"	101	3771.					
	1	14'- 4"	+	 	11'- 10 3/4"				
F505	SERIES	TO	31	3	TO	0'- 11 1/4"	2'- 3 "		0'- 9 1/8"
, 000	2	15'- 1"			12'- 8 "	- ""			
	1	14'- 3"		+	<u> </u>				
F506	SERIES	TO	31	STR.					0'- 10 1/8"
. 555	2	15'- 1''							
F507	7	3'- 10"	28	1	2'- 1"	1'- 10"			
F508	2	9'- 0"	19	STR.					
. 555				1					
					FORESLO	PE WALL			
FS501	4	9'- 0"	38	STR.					
FS502	10	2'- 1"	22	5	0'- 10"	0'- 8"			
FS503	10	2'- 8"	28	7	0'- 10''	0'- 8"	1'- 5"		
		TAT!						I	1

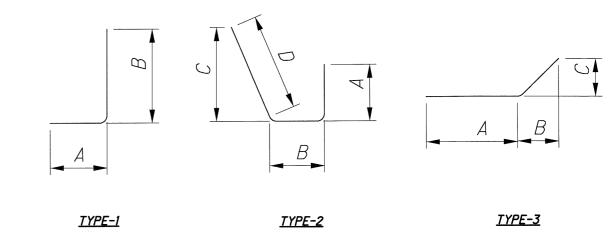
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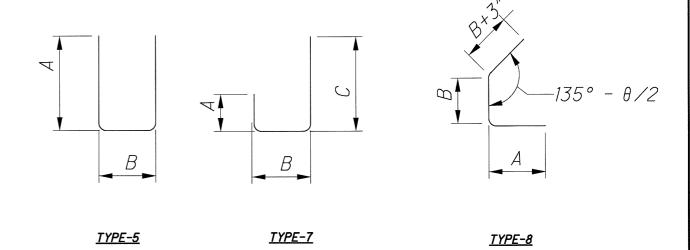
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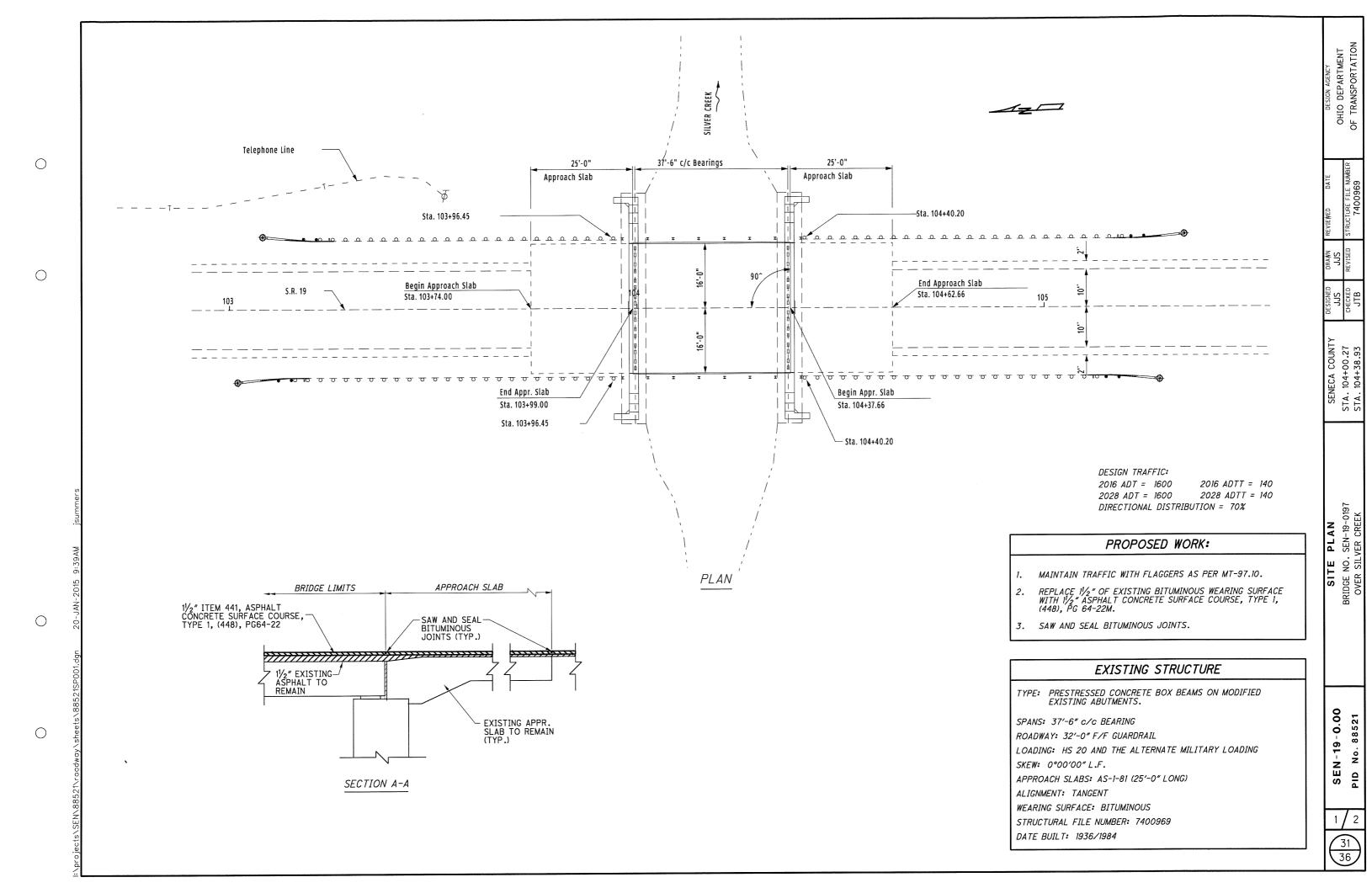
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TOTAL

1,546







			ESTIMATED QUANTITIES (01/STR/PV)					
EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SHEET #
23501	164	SQ YD	WEARING COURSE REMOVED, AS PER PLAN			138	164	
10000	14	GALLON	TACK COAT			11	14	
50000	14	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22			6	8	
51631200	112	FT	SAWING AND SEALING BITUMINOUS CONCRETE JOINTS			64	48	
	23501	23501 164 10000 14 50000 14	23501 164 SQ YD 10000 14 GALLON 50000 14 CU YD	EXTENSION TOTAL UNIT DESCRIPTION 23501 164 SQ YD WEARING COURSE REMOVED, AS PER PLAN 10000 14 GALLON TACK COAT 50000 14 CU YD ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22	EXTENSION TOTAL UNIT DESCRIPTION 23501 164 SQ YD WEARING COURSE REMOVED, AS PER PLAN 10000 14 GALLON TACK COAT 50000 14 CU YD ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22	EXTENSION TOTAL UNIT DESCRIPTION 23501 164 SQ YD WEARING COURSE REMOVED, AS PER PLAN 10000 14 GALLON TACK COAT 50000 14 CU YD ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22	EXTENSION TOTAL UNIT DESCRIPTION ABUT. PIERS SUPER. 23501 164 SQ YD WEARING COURSE REMOVED, AS PER PLAN 138 10000 14 GALLON TACK COAT 11 50000 14 CU YD ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22 6	EXTENSION TOTAL UNIT DESCRIPTION ABUT. PIERS SUPER. GEN. 23501 164 SQ YD WEARING COURSE REMOVED, AS PER PLAN 138 164 10000 14 GALLON TACK COAT 11 14 50000 14 CU YD ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22 6 8

EXISTING STRUCTURE VERIFICATION

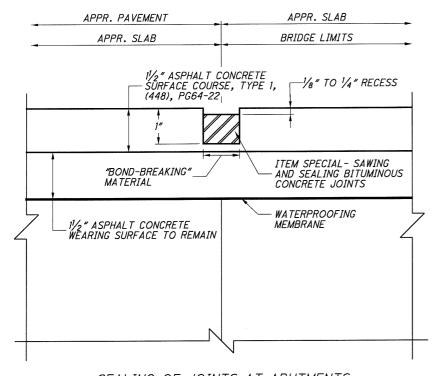
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DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPOROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 513.04.

CONTRACT BID PRICES SHALL BE BASED UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

ITEM 202, WEARING COURSE REMOVED, AS PER PLAN

THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN MACHINE GRINDING ON THE BRIDGE SUPERSTRUCTURE AND APPROACH SLABS. THE CONTRACTOR SHOULD VERIFY THE GRINDER DEPTH TO INSURE THAT NO DAMAGE FROM OVER GRINDING WILL OCCUR.



SEALING OF JOINTS AT ABUTMENTS AND ENDS OF APPROACH SLABS

DAMAGE TO EXISTING ITEMS TO REMAIN FROM REMOVAL OPERATIONS WILL BE REPAIRED OR REPLACED AT THE OPTION OF THE ENGINEER. CONCRETE REPAIRS SHALL BE AS PER ITEM 519. ALL COST FOR REPAIRS OR REPLACEMENT DUE TO IMPROPER REMOVAL PROCEDURES SHALL BE BORN BY THE CONTRACTOR.

ITEM SPECIAL-SAWING AND SEALING BITUMINOUS CONCRETE JOINTS

1) DESCRIPTION:

THIS WORK SHALL CONSIST OF CUTTING AND SEALING TRANSVERSE JOINTS IN THE NEW BITUMINOUS CONCRETE OVERLAY. BITUMINOUS CONCRETE JOINTS SHALL BE CONSTRUCTED DIRECTLY OVER, AND IN LINE WITH, THE EXISTING UNDERLYING TRANSVERSE JOINT OF THE APPROACH SLAB & APPROACH PAVEMENT.

2) MATERIALS:

THE JOINT SEALANT SHALL MEET THE REQUIREMENTS OF ITEM 705.04, JOINT SEALANTS, HOT-POURED, FOR CONCRETE AND ASPHALT PAVEMENTS. ACCEPTABLE ALTERNATE MATERIALS ARE:

A SILICONE SEALANT MEETING FEDERAL SPECIFICATIONS TT-S-001543A CLASS A (ONE-PART SILICONE SEALANTS) AND TT-S-00230C CLASS A (ONE-COMPONENT SEALANTS), SUCH AS THOSE MANUFACTURED BY GENERAL ELECTRIC, SILICONE PRODUCTS DIVISION, 4015 EXECUTIVE PARK DRIVE, CINCINNATI, OHIO 45242 (513-243-1953)OR DOW CORNING, 400 TECHNE CENTER, SUITE 103, MILFORD, OHIO 45150 (513-831-3586); OR SOF-SEAL, A COLD-APPLIED, LOW-MODULUS, TWO-COMPONENT POLY-MERIC COMPOUND HORIZONTAL SEALANT AS MANUFACTURED BY W.R.MEADOWS, INC., P.O.BOX 543,ELGIN,ILLINOIS 60121 (800-342-5976).

3) CONSTRUCTION DETAILS:

A) GENERAL: THE CONTRACTOR SHALL CONDUCT HIS OPERATION SO THAT THE CUTTING, CLEANING AND SEALING OF TRANSVERSE JOINTS IS A CONTINUOUS OPERATION THAT WILL BE PERFORMED AS SOON AS PRACTICAL AFTER THE PAVING, BUT NO LATER THAN FOUR (4) DAYS AFTER PLACEMENT OF THE ASPHALT CONCRETE SURFACE COURSE. TRAFFIC SHALL NOT BE ALLOWED TO KNEAD TOGETHER OR DAMAGE JOINT CUT PRIOR TO SEALING.

B) CUTTING OF TRANSVERSE JOINTS: THE CONTRACTOR SHALL SAW OR ROUT TRANSVERSE JOINTS TO THE DIMENSIONS SHOWN IN THE DETAILS ON THIS SHEET. THE CUT JOINTS SHALL LIE DIRECTLY ABOVE EACH APPROACH SLAB END.

THE BLADE OR BLADES SHALL BE OF SUCH SIZE THAT THE FULL WIDTH AND DEPTH OF THE CUT CAN BE MADE WITH ONE PASS. DRY OR WET CUTTING WILL BE ALLOWED. JOINTS SHALL EXTEND THE FULL WIDTH OF THE BRIDGE.

C) CLEANING JOINTS: DRY SAWED JOINTS SHALL BE THOROUGHLY CLEANED WITH A SUFFICIENT AMOUNT OF COMPRESSED AIR TO REMOVE ANY DIRT, DUST, OR DELETERIOUS MATTER. WET SAWED JOINTS SHALL BE WASHED CLEAN OF ALL CUTTINGS BY FLUSHING WITH A JET OF WATER AND WITH OTHER TOOLS AS NECESSARY.

AFTER FLUSHING, THE JOINT SHALL BE BLOWN OUT WITH COM-PRESSED AIR. WHEN THE SURFACES ARE THOROUGHLY CLEAN AND DRY, AND JUST PRIOR TO PLACING THE JOINT SEALER, COMPRESSED AIR HAVING A PRESSURE OF AT LEAST 90 P.S.I. SHALL BE USED TO BLOW OUT THE JOINT AND REMOVE ALL TRACES OF DUST.

IN THE EVENT FRESHLY CUT JOINTS BECOME CONTAMINATED BEFORE THEY ARE SEALED. THEY SHALL BE RECLEANED OF ALL FOREIGN MATERIAL BY HIGH PRESSURE WATER JET.

D) SEALING JOINTS: THE JOINT SHALL BE THOROUGHLY DRY WHEN THE SEALANT IS PLACED. AFTER CLEANING AND DRYING, A BOND-BREAKER MATERIAL SHALL BE APPLIED TO THE BOTTOM OF THE GROOVE.

HOT-POURED JOINT SEALANT MATERIAL SHALL BE HEATED IN A KETTLE OR MELTER CONSTRUCTED AS A DOUBLE BOILER, WITH THE SPACE BETWEEN THE INNER AND OUTER SHELLS FILLED WITH OIL OR OTHER HEAT TRANSFER MEDIUM, POSITIVE TEMPERATURE CONTROL AND MECHAN-ICAL AGITATION SHALL BE PROVIDED. HEATING MUST BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. JOINT SEALER MATERIAL SHALL NEVER BE KEPT HEATED AT THE POURING TEMPERATURE FOR MORE THAN FOUR (4) HOURS AND SHALL NEVER BE REHEATED. SEALER LEFT IN THE APPLICATOR AT THE END OF A DAY'S WORK SHALL NOT BE USED.

HOT-POURED SEALANT SHALL BE APPLIED IMMEDIATELY THROUGH A NOZZLE. WHICH MUST PROJECT INTO THE SAWED JOINT, FILLING FROM THE BOTTOM UP THE SEALANT SHALL COMPLETELY FILL THE JOINT IN SUCH A MANNER THAT, AFTER COOLING, THE LEVEL OF THE SEALANT WILL NOT BE HIGHER THAN 1/8 BELOW THE PAVEMENT SURFACE. ANY DEPRESSION IN THE COOLED SEAL GREATER THAN 3/6" SHALL BE BROUGHT UP TO THE SPECIFIED LIMIT BY FURTHER ADDITION OF HOT-POURED SEALANT. CARE SHALL BE TAKEN IN THE SEALING OF THE JOINTS SO THAT THE FINAL APPEARANCE WILL PRESENT A NEAT FINE LINE.

THE COLD APPLIED SEALANT MATERIALS (POLYURETHANE, SILICONE, AND POLYMERIC COMPOUNDS) SHALL BE INSTALLED AS PER MANU-FACTURERS' RECOMMENDATIONS, EXCEPT AS MODIFIED BY THIS DRAWING. THE SEALANT SHALL BE INSTALLED WHEN THE AMBIENT TEMPERATURE IS 40 DEGREES F OR HIGHER. TRAFFIC SHALL NOT BE ALLOWED ON THE JOINT FOR ONE HOUR AFTER APPLICATION OF THE SEALANT.

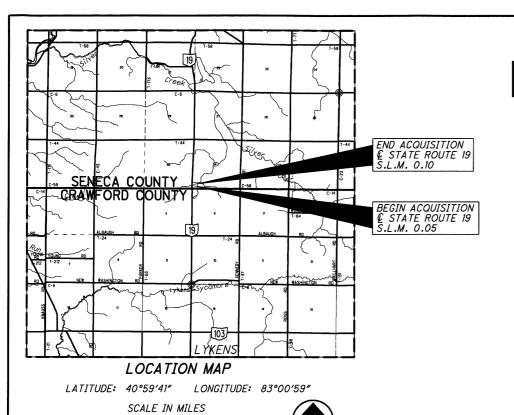
4) METHOD OF MEASUREMENT:

THE QUANTITY TO BE PAID FOR UNDER THIS ITEM WILL BE THE NUMBER OF LINEAR FEET OF JOINTS SAWED AND SEALED AS PER THE ABOVE REQUIREMENTS.

5) BASIS OF PAYMENT:

THE UNIT PRICE PER LINEAR FOOT FOR ITEM SPECIAL-"SAWING AND SEALING BITUMINOUS CONCRETE JOINTS" SHALL INCLUDE THE COST OF ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK, INCLUDING THE FURNISHING AND PLACING OF THE JOINT SEALER MATERIAL.

THIS ITEM SHALL MEET THE MATERIAL (SECTION 2) AND SEALING (SECTION 3D) SPECIFICATIONS OF ITEM SPECIAL-SAW-ING AND SEALING BITUMINOUS CONCRETE JOINTS.



RIGHT OF WAY LEGEND SHEET SEN-19-0.00

SENECA COUNTY BLOOM TOWNSHIP TOWN 1 NORTH, RANGE 16 EAST SECTIONS 33 & 34

INDEX OF SHEETS:

LEGEND	1
PROPERTY MAP	2
SUMMARY OF ADDITIONAL R/W	3
R/W DETAIL SHEET	4

GEND	1
OPERTY MAP	2
MMARY OF ADDITIONAL R/W	3
N DETAIL SHEET	4

PROJECT DESCRIPTION

A 2-LANE DISTRICT ALLOCATION FUNDED PROJECT TO RESURFACE SR-19 FROM CRAWFORD COUNTY LINE TO US-224: PERFORM NECESSARY RELATED WORK

PROJECT CONTROL

STATE PLANE GRID - OHIO NORTH NAD83 (2011) PROJECT ADJUSTMENT FACTOR - 1.0000000 GEOID MODEL - 2012A

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING ODOT R/W PLANS TITLED "STATE HIGHWAYS SENECA COUNTY", SENECA COUNTY COMMISSIONERS JOURNAL VOL. 1, PG. 100 DATED 1828, AND ODOT REFERENCE TIES, IN ADDITION TO SURVEYS RECORDED AT THE SENECA COUNTY ENGINEERS OFFICE FOR SECTIONS 33 AND 34. T-1-N, R-16-E, BLOOM TOWNSHIP.

PLANS PREPARED BY:

FIRM NAME : O.D.O.T.
R/W DESIGNER: MARTIN J. FARKAS
R/W REVIEWER: DAVID E. SEASLY
FIELD REVIEWER: MARTIN J. FARKAS
PRELIMINARY FIELD REVIEW DATE: 8/13/14
TRACINGS FIELD REVIEW DATE:
OWNERSHIP UPDATED BY:
DATE COMPLETED:
PLAN COMPLETION DATE: 8/15/14

TYPES OF TITLE LEGEND: SH = STANDARD HIGHWAY EASEMENT

STRUCTURE KEY

RESIDENTIAL
COMMERCIAL
OUT-BUILDING

CONVENTIONAL SYMBOLS

CENTURYLINK 122 S. ELIZABETH ST. LIMA, OH 45801

(419) 226-6120

FRONTIER (FORMERLY VERIZON) 300 WEST GYPSY LANE ROAD BOWLING GREEN, OH 43402 (419) 354-9452

Township Line — — — — — — Ditch / Creek (Pr)—— — — — Section Line - - - - - - - - - - Tree Line (Ex) Fence Line (Ex) ----x --- (Pr) ---- x --- Property Line Symbol P , Example --Right of Way (Pr) Standard Highway Ease.(Ex)——Ex SH——Evergreen (Ex) *, Stump M Channel Ease. (Pr) Utility Ease. (Ex) — Ex U — Post (Ex) O , Mailbox (Ex) We , Mailbox (Pr) We Railroad ############## or _____ Light (Ex) 京 , Telephone Marker (Ex) HTEL Edge of Pavement (Pr) — Light Pole (Ex) ϕ Edge of Shoulder (Ex) ------ Underground Water Line - - - - - - -Edge of Shoulder (Pr) ______ Underground Fiber Optic _ _ _ _ _ _ _ _ _ _

UTILITY OWNERS

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY

NORTH CENTRAL ELECTRIC COOP

P.O. BOX 475 ATTICA, OH 44807 (800) 426-3072

AMERICAN ELECTRIC POWER (AEP)

2622 SR 100 TIFFIN, OH 44883

(419) 209-5583

SECTION 153.64 O.R.C

——— Ditch / Creek (Ex)——— - - - — Ownership Hook Symbol Z , Example — Break Line Symbol $\sqrt{}$, Example — —— Ex R/W—— Tree (Pr) (F) , Tree (Ex) (F) , Shrub (Ex) (F) —— R/W—— Tree (Remove) (F) , Shrub (Remove) (F) , Sh — CH — Wetland (Pr) ¼ , Grass (Pr) 灿灿 , Aerial Target≜

MONUMENT LEGEND

ME EXISTING R/W MONUMENT BOX

■ PROPOSED R/W MONUMENT BOX

© EXISTING CONCRETE MONUMENT

PROPOSED CONCRETE MONUMENT

OLRE IRON PIN FOUND W/ ID CAP ●I.R.S. IRON PIN SET W/ ID CAP

✗ RAILROAD SPIKE SET

O1.R F. IRON PIN FOUND

®RE IRON PIPE FOUND ORS IRON PIPE SET ORKE P.K. NAIL FOUND

.RKS P.K. NAIL SET OM.N.F. MAG NAIL FOUND

. M.N.S. MAG NAIL SET

I, David E. Seasly, P. S. have conducted a survey of the existing conditions for the Ohio Department of Transportation on 30 January 2014. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinates System North Zone on NAD 83 (2011) datum. The Project Coordinates (US Survey Feet) are relative to State Plane Grid Coordinates (Meters or US Survey Feet) by a Project Adjustment Factor of 1.0000000. As a part of this project I have reestablished the locations of the existing property lines and the existing centerline of Right of Way for property takes contained herein. As a part of this project I have established the proposed property lines, calculated the Gross Take, present roadway occupied (PRO), Net Take and Net Residue; as well as prepared the legal descriptions necessary to acquire the parcels as shown herein. As a part of this work I have set right of way monuments at the property corners, property line intersection, points along the right of way and/or angle points on the right of way, Section Corners and other points as shown herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

David E. Seasly, Professional Land Surveyor 7050

Date:

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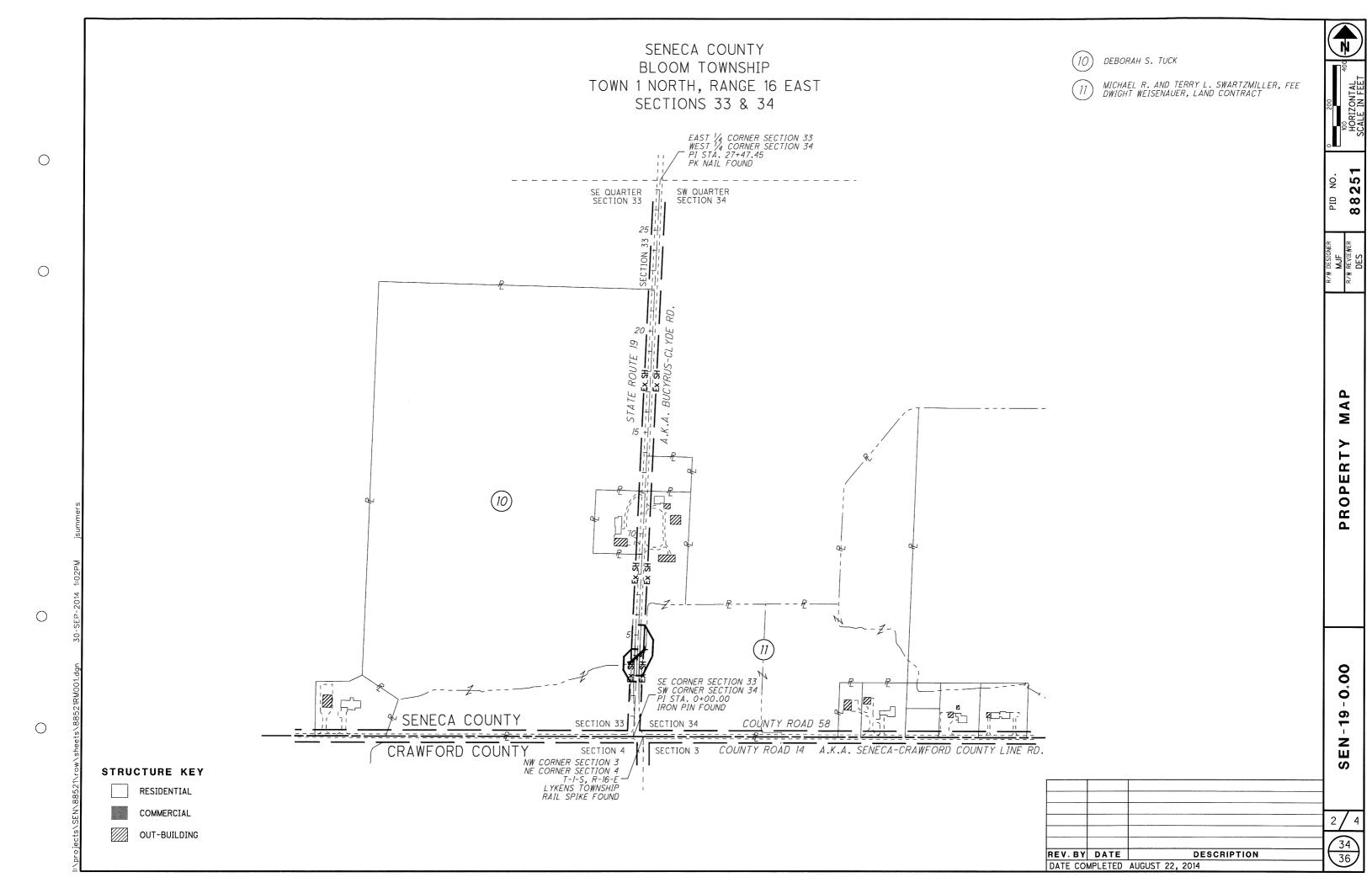
GEND

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O OWNERSHIPS W/ STRUCTURES INVOLVED

2 OWNERSHIPS

2 PARCELS

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NET TAKE = GROSS TAKE - PRO IN TAKE

O TOTAL TAKES

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

ALL AREAS IN ACRES

PARCEL NET STRUC-TAKE TURE AUDITOR'S RECORD TOTAL NET RESIDUE AS ACQUIRED OWNERS GROSS P.R.O. IN TYPE OWNER REMARKS NO. NO. RECORD PARCEL TAKE TAKE FUND LEFT RIGHT BOOK PAGE 1-9 NOT USED 251 DEBORAH S. TUCK 10-SH D.V. 454, PG. 69 2,4 C13000136400000 62.578 2.114 0.201 0.110 0.091 60.373 STATE MICHAEL R. AND TERRY L. SWARTZMILLER, FEE PID ω 11-SH C13000142880000 2,4 O.R. 134, PG. 209 1.507 24.37 0.343 THE LAND CONTRACT INTEREST COVERS 22.134 ACRES OF 0.172 0.171 22.692 STATE ∞ DWIGHT WEISENAUER, LAND CONTRACT O.R. 310, PG. 2230 22.134 THE LAND OWNERS' 24.37 ACRES. 8 520311 STATE ΑY > 0 F SUMMARY ONAL RIGHT ADDITIONAL 0 00 o 19 SEN (c) = CALCULATED AREA TYPES OF TITLE LEGEND: NOTE: ALL TEMPORARY PARCELS TO NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY GRANTEE: SH = STANDARD HIGHWAY EASEMENT BE OF 12 MONTH DURATION. EASEMENTS TO BE USED FOR STORAGE OF ALL RIGHT OF WAY ACQUIRED IN THE NAME OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR 3 / 4 THE STATE OF OHIO UNLESS NOTED OTHERWISE. REV. BY DATE DESCRIPTION UNLESS OTHERWISE SHOWN. FIELD REVIEW BY DATE:

OWNERSHIP VERIFIED BY DATE: DATE COMPLETED AUGUST 22, 2014

* DENOTES RIGHT OF WAY ENCROACHMENT

BASIS FOR BEARINGS: SENECA COUNTY STRUCTURE KEY ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY. BLOOM TOWNSHIP BEARINGS SHOWN ON THIS PLAT ARE BASED UPON OHIO STATE RESIDENTIAL NORTH ZONE NAD 83 (2011), GEOID MODEL 2012A. THE TOWN 1 NORTH, RANGE 16 EAST EAST LINE OF SECTION 33 / WEST LINE OF SECTION 34, COMMERCIAL TOWN 1 NORTH, RANGE 16 EAST, BLOOM TOWNSHIP, SENECA SECTIONS 33 & 34 COUNTY WAS ESTABLISHED THROUGH GPS OBSERVATIONS OF OUT-BUILDING FOUND MONUMENTS AND DETERMINED TO BE BEARING NORTH 2° 38' 01" EAST. \bigcirc š. S PID ∞ ω 10 DEBORAH S. TUCK 4673 STATE RT. 103 \bigcirc NEW WASHINGTON, OH 44854 D.V. 454, PG. 69 AGRICUL TURAL 8" FIELD ITILE AGRICUL TURAL C13000136400000 CRAWFORD COUNTY > N`2° 38′, 01″ E 65.00′ SENECA COUNTY Ш SHE 2+70.00 30.00′ LT 4+30.00 30.00′ LT. - OCCUPATION LINE ETAIL OCCUPATION LINE _15" DRIVE 18' FIELD DRIVE --18' FIELD DRIVE ∕S 87° 21′ 59″ E 30.00° N 87° 21′ 59″ W 30.00 TOP OF BANK 4+30.00 5+50.00 SECTION 33 S 2° 38′ 01″ W 160.00′ SECTION 33 0 SECTION 34 130.00 N 2° 38' 01" E 250.00' € SR 19 N 2° 38′ 01 ″ E € SR 19 N 2° 38′ 01 ″ E <u>2+70.00</u>/ 30.00' ⋖ SE CORNER SECTION 33 SW CORNER SECTION 34 IRON PIN FOUND E 1/4 CORNER SECTION 33 W 1/4 CORNER SECTION 34 PK NAIL FOUND 8 S 87° 21′ 59″ E 30.00′ ≥ 11-SH ,7N 87° 21′ 59″ W 30.00′ 18' FIELD DRIVE -EXISTING FIBER OPTIC TOP OF BANK STA. 0+00.00 STA. 27+47.45 TOP OF BANK OF SECTION 4 3+00.00 30.00' RT. 5+50.00 30.00' RT. NE CORNER SECTION 4 NW CORNER SECTION 3 - T-1-S, R-16-E LYKENS TOWNSHIP RIGHT - TOP OF BANK SECTION 3 S OCCUPATION LINE RAIL SPIKE FOUND COUNTY \bigcirc S 2° 38′ 01″ W 80.00′ 4+00.00 75.00' RT. 11 MICHAEL R. AND TERRY L. SWARTZMILLER, FEE 00 8229 E. COUNTY RD. 58 BLOOMVILLE, OH 44818 O.R. 134, PG. 209 **MONUMENT LEGEND** AGRICUL TURAL Ö M EXISTING R/W MONUMENT BOX ■ PROPOSED R/W MONUMENT BOX DWIGHT WEISNENAUER, LAND CONTRACT 1125 YOUNG RD. BLOOMVILLE, OH 44818 O.R. 310, PG. 2230 -19 © EXISTING CONCRETE MONUMENT PROPOSED CONCRETE MONUMENT Ø RAILROAD SPIKE FOUND Z U ■ RAILROAD SPIKE SET C13000142880000 OLRE IRON PIN FOUND S OLRE IRON PIN FOUND W/ ID CAP ●1.RS. IRON PIN SET W/ ID CAP ®RF. IRON PIPE FOUND ORS IRON PIPE SET ORKE P.K. NAIL FOUND PR.S. P.K. NAIL SET 36 OW.N.F. MAG NAIL FOUND . W.N.S. MAG NAIL SET REV. BY DATE DESCRIPTION DATE COMPLETED AUGUST 22, 2014