

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

ASD-95-6.49 ASD-511-18.33

GREEN TOWNSHIP
LAKE TOWNSHIP
MOHICAN TOWNSHIP
ORANGE TOWNSHIP
TROY TOWNSHIP

ASHLAND COUNTY

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FEDERAL PROJECT NUMBER

E240693

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT WILL INCLUDE PAVEMENT PLANING, REPAIR AND RESURFACING WITH ASPHALT CONCRETE ALONG WITH BRIDGE MAINTENANCE, PAVEMENT MARKINGS, RPMS, AND GUARDRAIL WORK ON SR 95 AND SR 511 IN ASHLAND COUNTY

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: N/A*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A*
NOTICE OF INTENT EARTH DISTURBED AREA: N/A*

*MAINTENANCE PROJECT


2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

MAINTENANCE OF TRAFFIC ENDORSEMENT

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


Robert Weaver
District 03 Deputy Director


Jack Marchbanks, PhD
Director, Department of Transportation

SEE SHEET 2 FOR LOCATION MAPS

LOCATION MAP

DESIGN DESIGNATION

SEE SHEET 2

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig


OHIO811.org
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

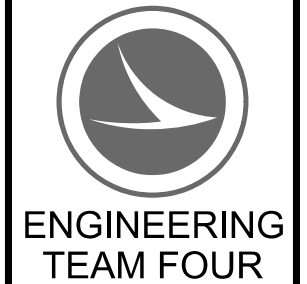
ENGINEER'S SEAL



STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/19/24	MT-99.20	4/19/19	800-2023 1/19/24	
BP-3.2	1/18/19	MT-101.90	7/17/20	832 7/21/23	
BP-4.1	7/19/13	MT-105.10	1/17/20	874 4/17/20	
BP-9.2	1/15/21				
		TC-41.20	10/18/13		
MGS-1.1	7/16/21	TC-42.20	10/18/13		
MGS-2.1	1/19/18	TC-52.10	10/18/13		
MGS-2.3	1/20/23	TC-61.30	7/19/19		
MGS-4.2	7/19/13	TC-64.10	7/21/23		
MGS-4.3	1/18/13	TC-65.10	1/17/14		
		TC-65.11	1/19/24		
DBR-3-11	7/15/11				
HW-1.1	7/20/18				
MT-97.10	4/19/19				
MT-97.12	1/20/17				

TITLE SHEET

DESIGN AGENCY
DISTRICT 3



ENGINEERING
TEAM FOUR

DESIGNER
STO

REVIEWER
NRF 07/18/24

PROJECT ID
119430

SHEET TOTAL
P.1 | 33

ASD-95/511-6.49/18.33

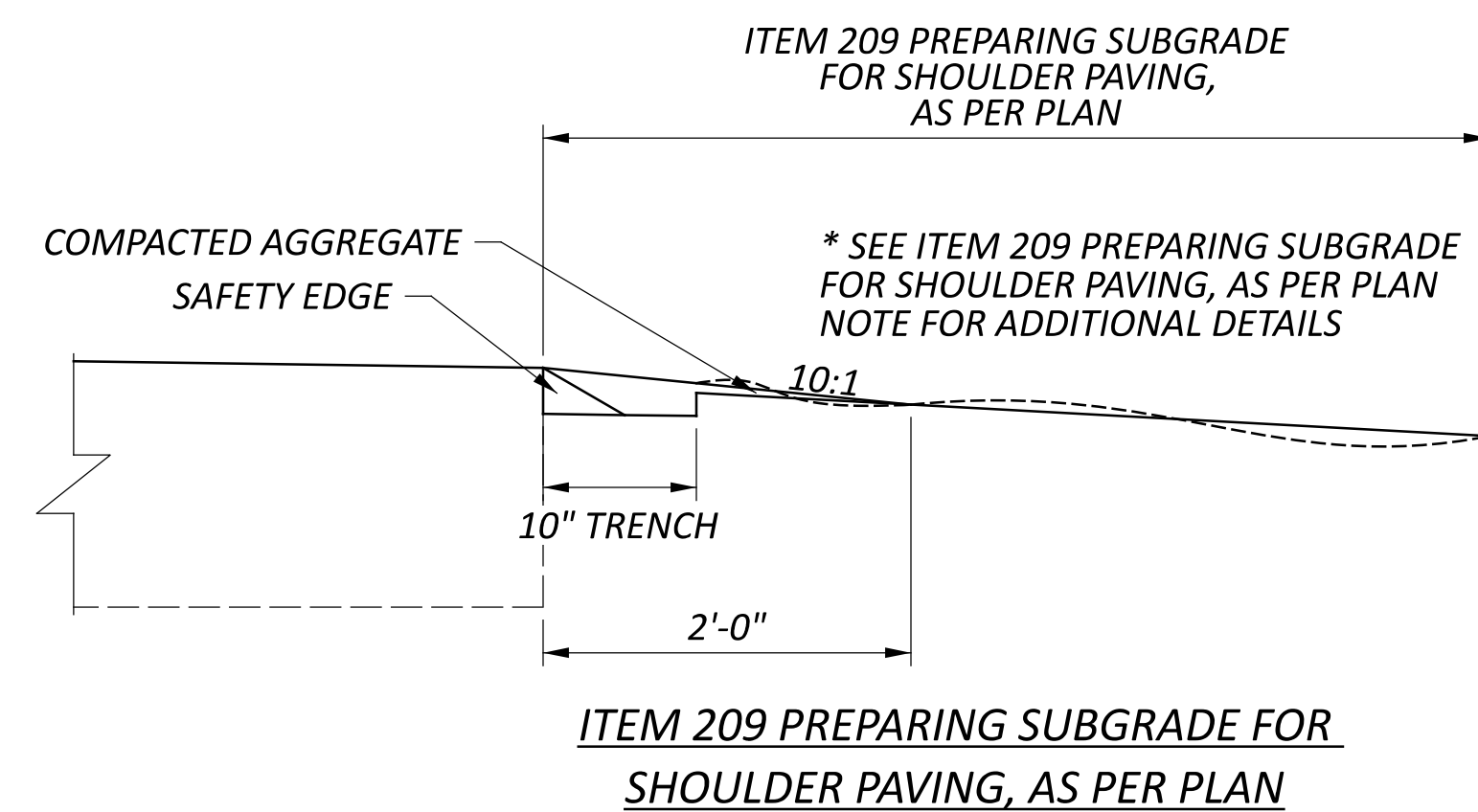
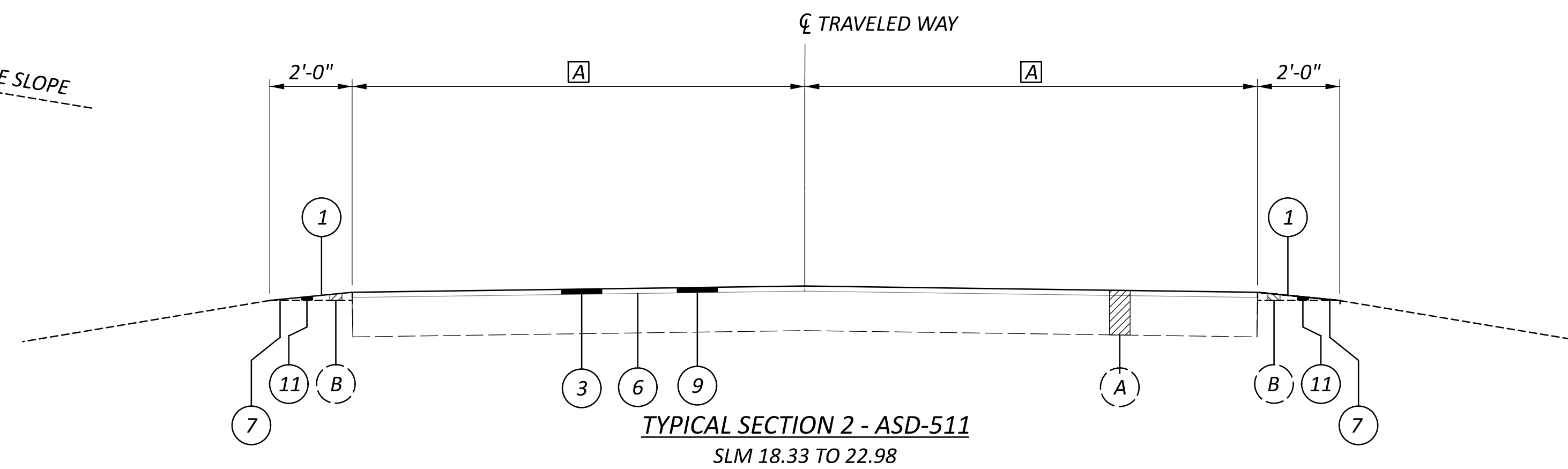
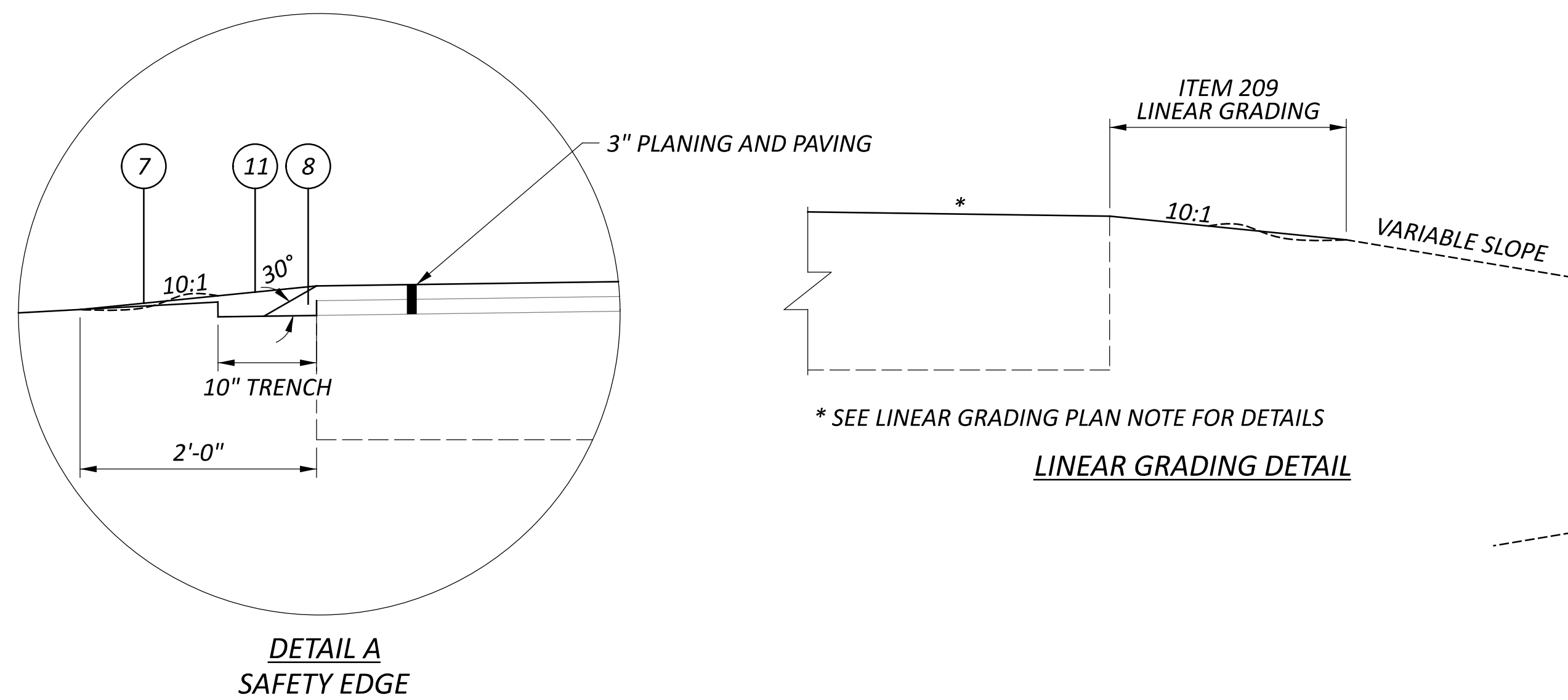
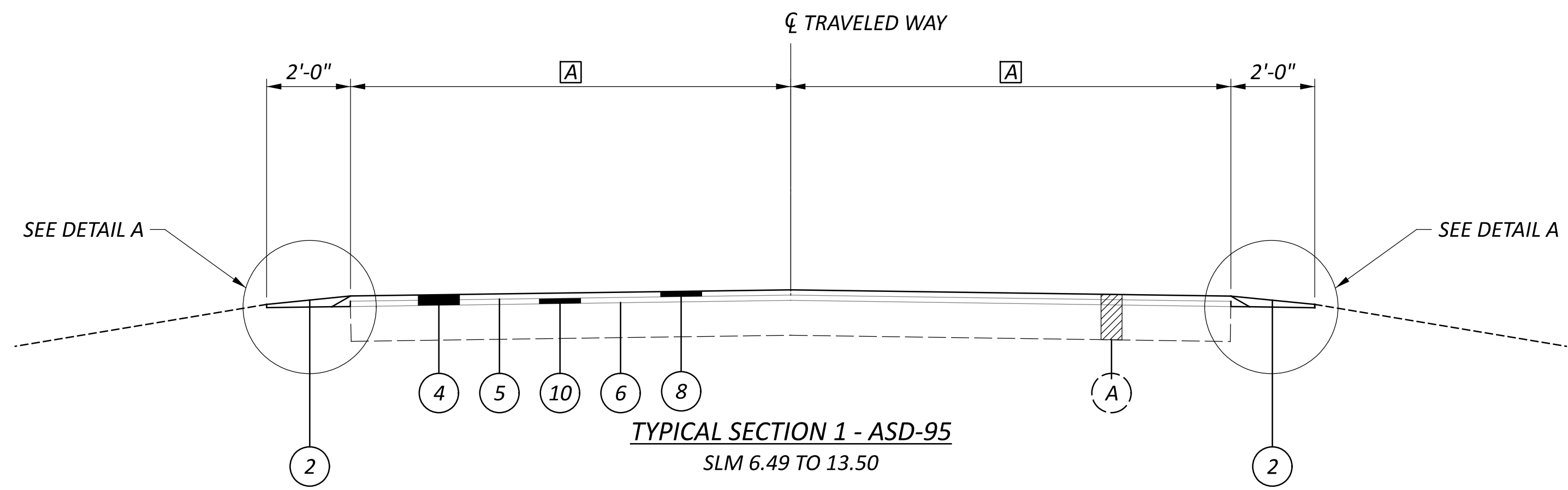
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PROPOSED LEGEND:

- ① ITEM 209 - LINEAR GRADING
- ② ITEM 209 - PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN (TYP.)
- ③ ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (1.50")
- ④ ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (3.00")
- ⑤ ITEM 407 - TACK COAT (0.06 GAL/SY)
- ⑥ ITEM 407 - TACK COAT (0.09 GAL/SY)
- ⑦ ITEM 408 - PRIME COAT, AS PER PLAN (TYP.)
- ⑧ ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A (446), AS PER PLAN (PG64-22) (1.25")
- ⑨ ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A (446), AS PER PLAN (PG64-22) (1.50")
- ⑩ ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (448), AS PER PLAN (PG64-22) (1.75")
- ⑪ ITEM 617 - COMPACTED AGGREGATE (2" AVG.) (TYP.)

EXISTING LEGEND:

- (A) EXISTING PAVEMENT (VARIES)
- (B) EXISTING COMPACTED AGGREGATE (1.5" AVG.) (TYP.)



(A) VARIES; SEE PAVEMENT AND SHOULDER DATA SHEETS
 GUARDRAIL NOT SHOWN FOR CLARITY SEE GUARDRAIL DETAIL SHEETS
 SCALE EXAGGERATED BY A FACTOR OF 2

TYPICAL SECTIONS

DESIGN AGENCY	DISTRICT 3
ENGINEERING TEAM FOUR	
DESIGNER	STO
REVIEWER	NRF 07/18/24
PROJECT ID	119430
SHEET	TOTAL
P.4	33

GENERAL

UTILITIES (G102A)

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

CABLE
ARMSTRONG UTILITIES
1215 CLAREMONT AVENUE
ASHLAND, OH 44805
419.289.0161

ELECTRIC
FIRELANDS ELECTRIC
1 ENERGY PLACE
NEW LONDON, OH 44851
419.929.1571

COMMUNICATION
FRONTIER COM
83 TOWNSEND AVENUE
NORWALK, OH 44857
419.744.3613

ELECTRIC
HOLMES-WAYNE ELECTRIC COOP
6060 S.R. 83 (P.O. BOX 112)
MILLERSBURG, OH 44654
330-674.1055

ELECTRIC
OHIO EDISON
2508 WEST PERKINS AVENUE
SANDUSKY, OH 44870
419.627.6881

GAS
TC ENERGY
P.O. BOX 85
LAKEVILLE, OH 44638
419.827.2620

FIBER OPTIC
AMERICAN ELECTRIC POWER
700 MORRISON ROAD
GAHANNA, OH 43230
614.716.2531

CABLE
ARMSTRONG UTILITIES
1215 CLAREMONT AVENUE
ASHLAND, OH 44805
419.289.0161

CITY
CITY OF ASHLAND
206 CLAREMONT AVENUE
ASHLAND, OH 44805
419.289.8331

GAS
TC ENERGY
589 N STATE ROAD
MEDINA, OH 44256
330.721.4163

GAS
ASPIRE ENERGY
300 TRACY BRIDGE ROAD
ORRVILLE, OH 44667
330.682.7726

COMMUNICATION
FRONTIER COM
83 TOWNSEND AVENUE
NORWALK, OH 44857
419.744.3613

GAS
KINDER MORGAN
605 WESTLAKE DRIVE
ASHLAND, OH 44805
714.560.4967

ELECTRIC
LORAIN-MEDINA RURAL ELECTRIC
P.O. BOX 158
WELLINGTON, OH 44090
800.222.8673

COMMUNICATION
NOVA TELEPHONE COMPANY
225 TOWNSHIP RD 791, P.O. BOX 27
NOVA, OH 44859
419.652.3571

ELECTRIC
OHIO EDISON
2508 WEST PERKINS AVENUE
SANDUSKY, OH 44870
419.627.6881

GAS
PIN OAK ENERGY PARTNERS
388 SOUTH MAIN STREET, SUITE 401
AKRON, OHIO 44311
888.748.0763

WATER
RLCWA
42401 S.R. 303
LAGRANGE, OH 44050
440.355.6060

GAS
TRANSIT ENERGY INC
2002 CANTERBURY LANE
WOOSTER, OH 44691
330.262.5865

SEWER
TROY TOWNSHIP WASTEWATER
DISTRICT
P.O. BOX 55
NOVA, OH 44859
419.929.0343

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

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

EXISTING PLANS (G103)

EXISTING PLANS ENTITLED ASD-95-1.46, 2010, ASD-95-1.46, 2016, AND ASD-511-(14.07)(18.33) ASD-302-10.89, 2014 MAY BE INSPECTED IN THE ODOT DISTRICT THREE OFFICE IN ASHLAND.

WORK LIMITS (G106)

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

ROUTINE MAINTENANCE

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

COORDINATION OF WORK BETWEEN CONTRACTORS

THE CONTRACTOR SHOULD BE AWARE THAT THERE MAY BE OTHER WORK BEING PERFORMED BY A SEPARATE CONTRACT. ASD-511-22.26 PID 108038 IS A CULVERT CONTRACT AND IS SCHEDULED TO BEGIN WORK IN THE 2025 CONSTRUCTION SEASON. COORDINATION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

WINDOW CONTRACT TABLE

USE THE FOLLOWING TABLE AS REFERRED TO IN THE PROPOSAL:

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE
SR 95	60 DAYS
SR 511	60 DAYS

THE CONTRACTOR HAS 60 DAYS TO COMPLETE THE PAVING WORK ONCE STARTED FOR EACH ROUTE. THE STRUCTURE/BRIDGE WORK IS EXCLUDED FROM THE WINDOW CONTRACT REQUIREMENTS.

ROADWAY

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 AREA 10 INCHES WIDE, BEGINNING AT THE EDGE OF THE PAVED ROADWAY, TO PROVIDE A LEVEL SURFACE FREE OF VEGETATION FOR CONSTRUCTION OF THE SAFETY EDGE. IF NECESSARY, EXCAVATE THE GRADED AREA TO THE DEPTH NECESSARY TO CONSTRUCT THE SAFETY EDGE. COMPACT THE GRADED SHOULDER ACCORDING TO 617.05 OR AS DIRECTED BY THE ENGINEER. THE GRADED SHOULDER BEYOND THE 10-INCH WIDE AREA FOR THE SAFETY EDGE SHALL BE GRADED AT A 10:1 SLOPE, OR AS DIRECTED BY THE ENGINEER. THE INTENT IS TO PROVIDE AN UNOBSTRUCTED AND POSITIVE FLOW OF STORM WATER FROM THE PAVEMENT TO THE DITCH.

ITEM 209 – LINEAR GRADING

THE CONTRACTOR IS REQUIRED TO PERFORM LINEAR GRADING ON THE GRADED SHOULDER. IT IS ANTICIPATED THAT THERE ARE AREAS WHERE THE GRADED SHOULDER IS AT A HIGHER ELEVATION THAN THE ADJACENT PROPOSED PAVEMENT. A 10:1 SLOPE SHALL BE ESTABLISHED, OR AS DIRECTED BY THE ENGINEER, WHEN PERFORMING ITEM 209 LINEAR GRADING. THE INTENT IS TO PROVIDE AN UNOBSTRUCTED AND POSITIVE FLOW OF STORM WATER FROM THE PAVEMENT TO THE DITCH. THE LINEAR GRADING SHALL BE PERFORMED AFTER THE INTERMEDIATE COURSE HAS BEEN COMPLETED AND BEFORE THE SURFACE COURSE IS PLACED. ALL LABOR AND EQUIPMENT NECESSARY TO PERFORM THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER MILE FOR ITEM 209 - LINEAR GRADING.

ITEM 623 SURVEY MONUMENT VERIFICATION

NO MONUMENT BOXES NOTED IN ODOT RECORDS THROUGH THE WORK AREA. ANY UNDOCUMENTED MONUMENT BOXES DISCOVERED AS PART OF THE WORK SHALL BE ADJUSTED OR RECONSTRUCTED TO GRADE.

THE CONTRACTOR'S SURVEYOR SHALL OPEN AND OBSERVE ALL MONUMENT ASSEMBLIES AFTER COMPLETION OF ADJUSTMENT/ RECONSTRUCTION WORK WITHIN THE PROJECT LIMITS. OBSERVE THE MONUMENT ASSEMBLIES USING STANDARD ACCEPTABLE SURVEYING MEASUREMENT TECHNIQUES SUITABLE TO MEET THE REQUIREMENTS OF OHIO ADMINISTRATIVE CODE SECTION 4733-37, "STANDARDS FOR BOUNDARY SURVEYS". A STANDARD MONUMENT VERIFICATION REPORT, IN EXCEL FORMAT, SHALL BE FILED WITH THE ENGINEER AND THE DISTRICT SURVEY OPERATIONS MANAGER UPON COMPLETION. A LINK TO THE STANDARD SURVEY MONUMENT VERIFICATION REPORT IS INCLUDED BELOW:

<https://www.transportation.ohio.gov/working/construction/construction-admin/resources>

SCOTT HAWKINS, P.S.
ODOT DISTRICT 3 -SURVEY OPERATIONS MANAGER
SCOTT.HAWKINS@DOT.OHIO.GOV

ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THIS WORK IS TO BE PAID USING THE CONTRACT BID PRICE PER LUMP SUM ITEM 623 – POST CONSTRUCTION SURVEY MONUMENT VERIFICATION REPORT.

ITEM 623 – POST CONSTRUCTION SURVEY MONUMENT VERIFICATION REPORT 1 LUMP SUM

MAILBOX APPROACHES

THE MAILBOX APPROACHES SHALL BE PAVED WITH [RESURFACING TREATMENT]. THEY SHALL CONFORM AS MUCH AS PRACTICAL TO STANDARD DRAWING BP-4.1 OR AS DIRECTED BY THE ENGINEER.

GRADING SHALL BE PERFORMED IN THESE AREAS TO OBTAIN A BASE WHICH WILL ALLOW THE FINISHED GRADE TO BE FLUSH WITH THE ADJACENT PAVEMENT. A QUANTITY OF ITEM 617 COMPACTED AGGREGATE HAS BEEN PROVIDED FOR AREAS WHERE THE SHOULDER IS LOW PRIOR TO GRADING AND/OR LOW AREAS CAUSED BY THE REMOVAL OF UNSUITABLE MATERIAL. QUANTITIES TO PERFORM THIS WORK HAVE BEEN INCLUDED IN THE GENERAL SUMMARY AND ARE ESTIMATED AS FOLLOWS:

ITEM 209 – GRADING MAILBOX APPROACHES 83 EACH

ITEM 617 – COMPACTED AGGREGATE 83 CU YD

GUARDRAIL

CONNECTING GUARDRAIL TO EXISTING RAIL

IN LOCATIONS WHERE TYPE 5 GUARDRAIL, TERMINAL ASSEMBLIES, ETC. ARE TO BE CONNECTED TO EXISTING RAIL SOME MODIFICATIONS MAY BE REQUIRED, INCLUDING EXTRA POSTS, DRILLING HOLES AND POSSIBLY PARTIAL SECTIONS OF ADDITIONAL RAIL ELEMENTS. THE COST OF THIS ADDITIONAL WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR TYPE 5 GUARDRAIL. IF ADDITIONAL PORTIONS OF RAIL ELEMENT ARE USED THE LINEAL MEASUREMENT OF THIS ADDITIONAL PORTION SHALL BE ADDED FOR PAYMENT.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL (R111)

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

LOCATIONS OF GUARDRAIL

THE GUARDRAIL PROTECTION PROVIDED IN THIS PLAN SHALL BE LOCATED IN THE FIELD TO ASSURE THAT THE INSTALLATION WILL AFFORD THE MAXIMUM PROTECTION FOR TRAFFIC. THIS LOCATION SHALL BE POSITIONED AS FAR AS POSSIBLE FROM THE EDGE OF PAVEMENT WHILE MAINTAINING PROPER GRADE IN FRONT OF GUARDRAIL AS PER STANDARD DRAWINGS AND PLAN DETAILS.

SUGGESTED SEQUENCE OF GUARDRAIL WORK

1. GUARDRAIL WORK IS TO BEGIN AFTER THE LINEAR GRADING IS COMPLETED AND THE 617 MATERIAL IS PLACED.
2. REMOVE THE GUARDRAIL.
3. PERFORM THE RESHAPING UNDER GUARDRAIL INCLUDING COMPLETING THE EMBANKMENT, AS PER PLAN.
4. REBUILD/CONSTRUCT THE GUARDRAIL RUN.
5. INSTALL BARRIER REFLECTORS.

ITEM 606 – RAISING TYPE 5 GUARDRAIL

WHERE DESIGNATED ON THE PLAN, THE EXISTING TYPE 5 GUARDRAIL SHALL BE RAISED ON THE EXISTING WOOD POSTS AS PER STANDARD DRAWING GR-2.1 SO AS TO OBTAIN THE STANDARD 29 IN. HEIGHT. THE RAIL SHALL BE RE-ATTACHED TO THE POSTS USING NEW POST BOLTS.

THE RAIL SHALL BE DISMANTLED ONLY TO THE EXTENT NECESSARY TO FIELD BORE NEW BOLT HOLES IN THE WOOD POSTS, AND TO RECONNECT THE RAIL AND BLOCK TO THE EXISTING POSTS.

THE EXISTING TYPE "A" ANCHOR ASSEMBLIES THAT ARE TO REMAIN SHALL NOT BE ADJUSTED. THE LAST RAIL ELEMENT SHALL BE TRANSITIONED TO MEET THESE ASSEMBLIES.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT OF ITEM 606 – RAISING TYPE 5 GUARDRAIL, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

DESIGN AGENCY

DISTRICT 3



ENGINEERING TEAM FOUR

DESIGNER

STO

REVIEWER

NRF 07/18/24

PROJECT ID

119430

SHEET TOTAL

P.5 33