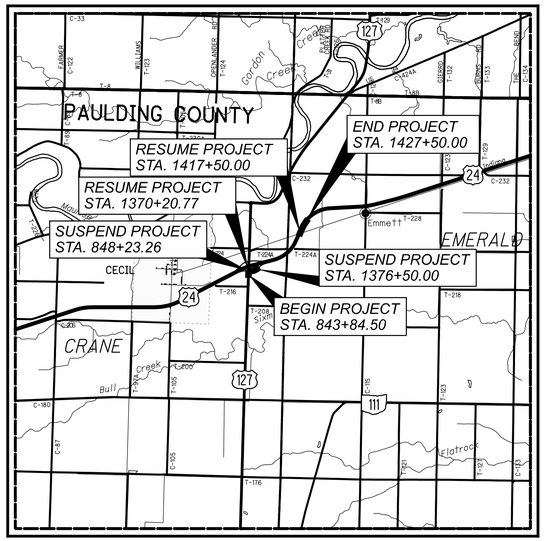
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

PAU-24/127-13.55/15.98
PART 2

EMERALD TOWNSHIP
CRANE TOWNSHIP

PAULDING COUNTY

FOR PART 1, SEE PAU/DEF-24-12.30/0.00



LOCATION MAP

LATITUDE: 41°13'20" LONGITUDE: 84°34'20"

N

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION

	US 24	US 127	RAMP D
CURRENT ADT (2023)	14,000	4,700	1,100
DESIGN YEAR ADT (2043)	22,500	5,900	1,300
DESIGN HOURLY VOLUME (2043)	2,200	600	143
DIRECTIONAL DISTRIBUTION	50%	55%	100%
TRUCKS (24 HOUR B&C)	43%	27%	11%
DESIGN SPEED	70 MPH	60 MPH	70 MPH
LEGAL SPEED	65 MPH	55 MPH	65 MPH

DESIGN FUNCTIONAL CLASSIFICATION:
US 24: 02 OTHER FREEWAY AND EXPRESSWAY (RURAL)
US 127: 04 MINOR ARTERIAL (RURAL)

NHS PROJECT — YES

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:
ODOT DISTRICT 1
1885 N. MCCULLOUGH ST.
LIMA, OH 45801

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FEDERAL PROJECT NUMBER

E(230) 890

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

SLIDE REPAIR BY RECONSTRUCTING AND BENCHING THE EMBANKMENT ALONG NORTHBOUND US 127, THE EASTBOUND ENTRANCE RAMP TO US 24 (RAMP D), AND ALONG US 24 EASTBOUND NORTHEAST OF THE US 127 INTERCHANGE. THE PROJECT WILL ALSO FLATTEN THE SLOPES AND INSTALL CURB AND STORM WATER INLETS TO CONTROL SURFACE RUNOFF. PROJECT LENGTH: 0.39 MILES

EARTH DISTURBED AREAS (PAU-24-13.55/PAU-127-15.98)

PROJECT EARTH DISTURBED AREA:	2.2/2.3 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.9/0.7 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	6.1 ACRES

LIMITED ACCESS

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

2023 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE RAMP AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 7. ALSO, THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF US 24 AND US 127 AND PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Christopher A. Hughes, P.E.
District 01 Deputy Director

Jack Marchbanks, PhD
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS					SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
		SEE PART 1			SEE PART 1	

ENGINEER'S SEAL

STATE OF OHIO
KRISTOPHER OSTERHAGE
E-86193
REGISTERED
PROFESSIONAL ENGINEER

Digitally signed by Kristopher Osterhage
Date: 2024.02.15 10:50:37-05'00'

TITLE SHEET

DESIGN AGENCY

DESIGNER: KCO
REVIEWER: TAB 10-31-22
PROJECT ID: 117367
SHEET: P.1 TOTAL: 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 2/15/2024 TIME: 10:05:45 AM USER: kosterha
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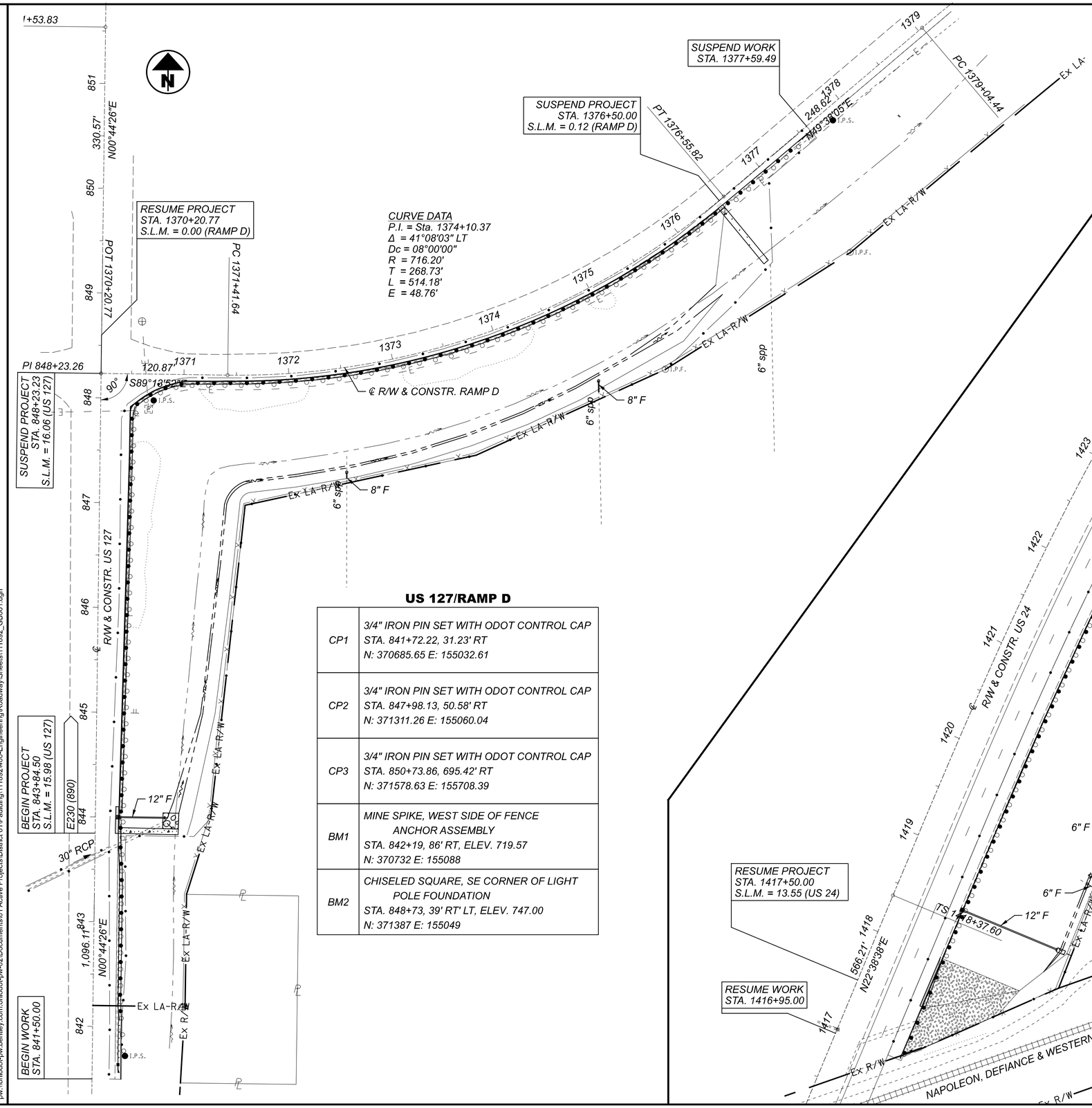
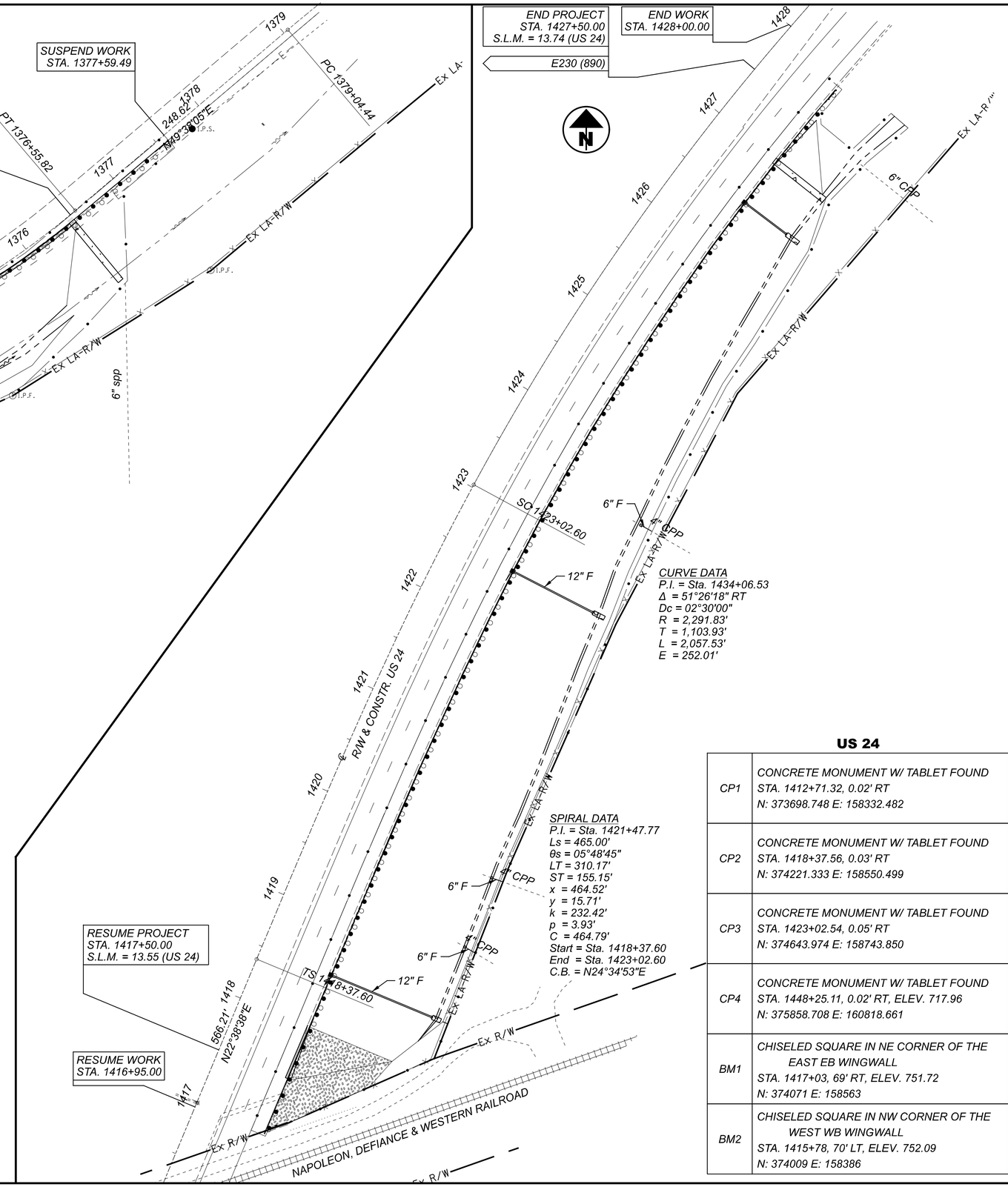


US 127/RAMP D

CP1	3/4" IRON PIN SET WITH ODOT CONTROL CAP STA. 841+72.22, 31.23' RT N: 370685.65 E: 155032.61
CP2	3/4" IRON PIN SET WITH ODOT CONTROL CAP STA. 847+98.13, 50.58' RT N: 371311.26 E: 155060.04
CP3	3/4" IRON PIN SET WITH ODOT CONTROL CAP STA. 850+73.86, 695.42' RT N: 371578.63 E: 155708.39
BM1	MINE SPIKE, WEST SIDE OF FENCE ANCHOR ASSEMBLY STA. 842+19, 86' RT, ELEV. 719.57 N: 370732 E: 155088
BM2	CHISELED SQUARE, SE CORNER OF LIGHT POLE FOUNDATION STA. 848+73, 39' RT' LT, ELEV. 747.00 N: 371387 E: 155049



US 24

CP1	CONCRETE MONUMENT W/ TABLET FOUND STA. 1412+71.32, 0.02' RT N: 373698.748 E: 158332.482
CP2	CONCRETE MONUMENT W/ TABLET FOUND STA. 1418+37.56, 0.03' RT N: 374221.333 E: 158550.499
CP3	CONCRETE MONUMENT W/ TABLET FOUND STA. 1423+02.54, 0.05' RT N: 374643.974 E: 158743.850
CP4	CONCRETE MONUMENT W/ TABLET FOUND STA. 1448+25.11, 0.02' RT, ELEV. 717.96 N: 375858.708 E: 160818.661
BM1	CHISELED SQUARE IN NE CORNER OF THE EAST EB WINGWALL STA. 1417+03, 69' RT, ELEV. 751.72 N: 374071 E: 158563
BM2	CHISELED SQUARE IN NW CORNER OF THE WEST WB WINGWALL STA. 1415+78, 70' LT, ELEV. 752.09 N: 374009 E: 158386

HORIZONTAL SCALE IN FEET
0 25 50 100

SCHEMATIC PLAN

DESIGN AGENCY

DESIGNER KCO
REVIEWER SSM 01-03-23
PROJECT ID 117367
SHEET P.2 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

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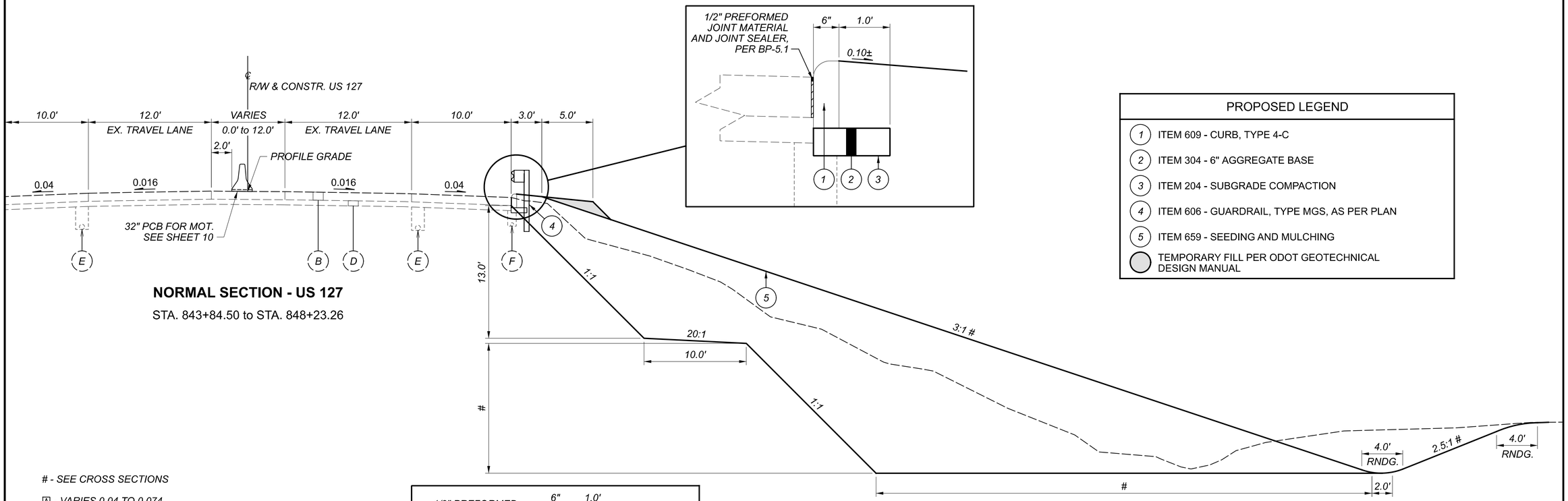


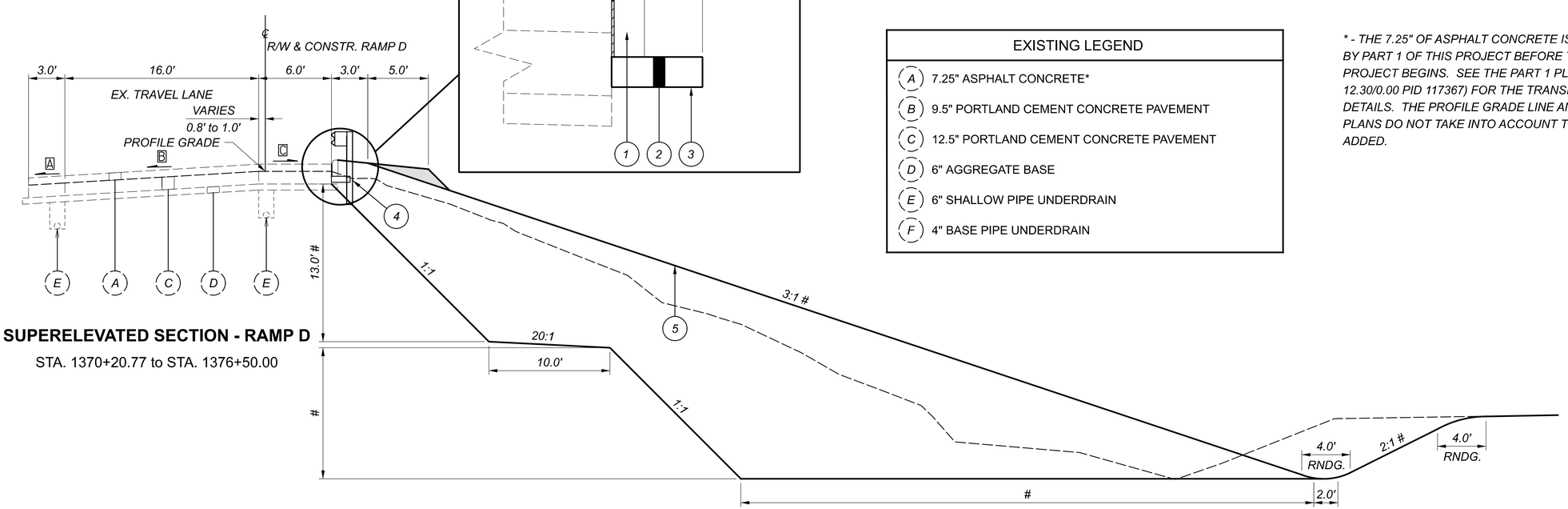
NORMAL SECTION - US 127

STA. 843+84.50 to STA. 848+23.26

PROPOSED LEGEND	
1	ITEM 609 - CURB, TYPE 4-C
2	ITEM 304 - 6" AGGREGATE BASE
3	ITEM 204 - SUBGRADE COMPACTION
4	ITEM 606 - GUARDRAIL, TYPE MGS, AS PER PLAN
5	ITEM 659 - SEEDING AND MULCHING
	TEMPORARY FILL PER ODOT GEOTECHNICAL DESIGN MANUAL

- SEE CROSS SECTIONS

A - VARIES 0.04 TO 0.074
B - .074 MAX
C - VARIES 0.01 TO 0.04



SUPERELEVATED SECTION - RAMP D

STA. 1370+20.77 to STA. 1376+50.00

EXISTING LEGEND	
A	7.25" ASPHALT CONCRETE*
B	9.5" PORTLAND CEMENT CONCRETE PAVEMENT
C	12.5" PORTLAND CEMENT CONCRETE PAVEMENT
D	6" AGGREGATE BASE
E	6" SHALLOW PIPE UNDERDRAIN
F	4" BASE PIPE UNDERDRAIN

* - THE 7.25" OF ASPHALT CONCRETE IS EXPECTED TO BE ADDED BY PART 1 OF THIS PROJECT BEFORE THIS SLIDE REPAIR PROJECT BEGINS. SEE THE PART 1 PLANS (PAU/DEF-24-12.30/0.00 PID 117367) FOR THE TRANSITION AREAS AND MORE DETAILS. THE PROFILE GRADE LINE AND ELEVATIONS IN THESE PLANS DO NOT TAKE INTO ACCOUNT THIS EXTRA PAVEMENT ADDED.

TYPICAL SECTIONS

DESIGN AGENCY

DESIGNER
KCO

REVIEWER
MJM 01-03-23

PROJECT ID
117367

SHEET P.3 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

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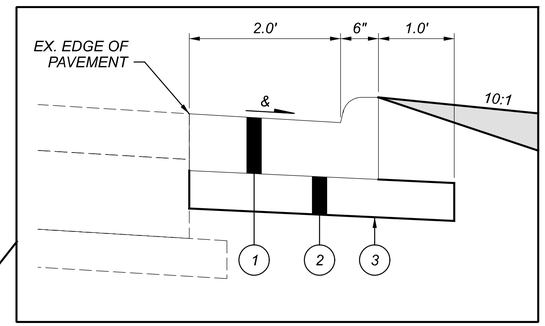
EXISTING LEGEND	
A	7.25" ASPHALT CONCRETE*
B	12.5" PORTLAND CEMENT CONCRETE PAVEMENT
C	6" AGGREGATE BASE
D	4" BASE PIPE UNDERDRAIN

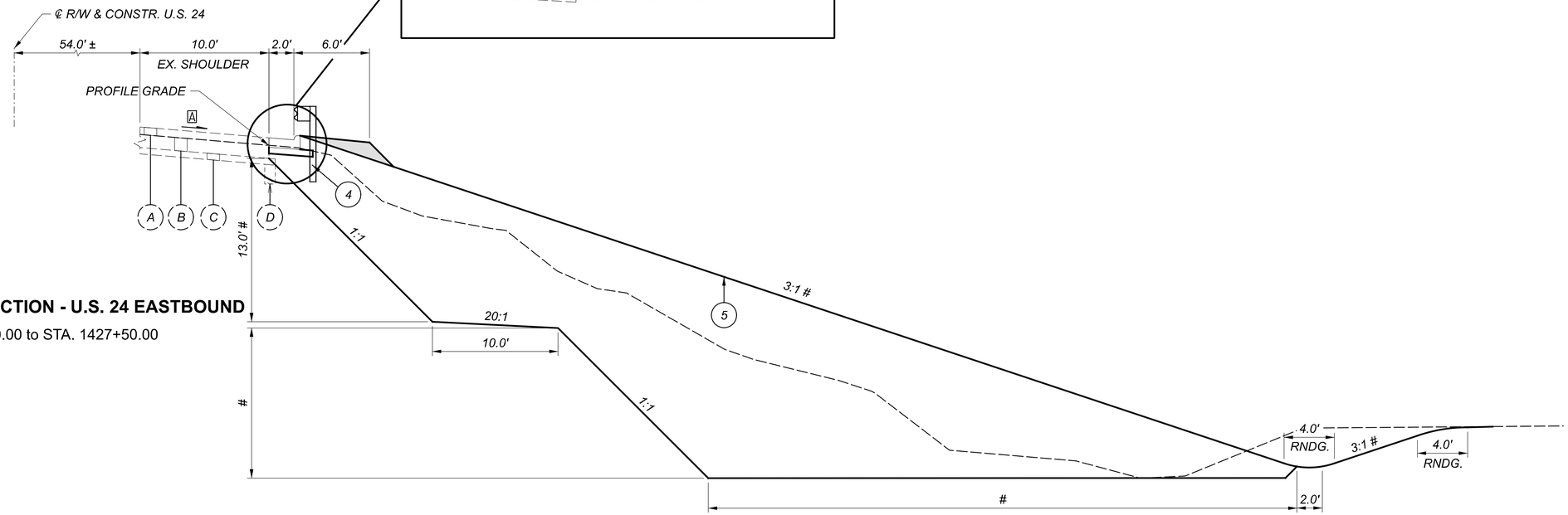
** - THE 7.25" OF ASPHALT CONCRETE IS EXPECTED TO BE ADDED BY PART 1 OF THIS PROJECT BEFORE THIS SLIDE REPAIR PROJECT BEGINS. SEE THE PART 1 PLANS (PAU/DEF-24-12.30/0.00 PID 117367) FOR THE TRANSITION AREAS AND MORE DETAILS. THE PROFILE GRADE LINE AND ELEVATIONS IN THESE PLANS DO NOT TAKE INTO ACCOUNT THIS EXTRA PAVEMENT ADDED.*

PROPOSED LEGEND	
1	ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 4, T = 9"
2	ITEM 304 - 6" AGGREGATE BASE
3	ITEM 204 - SUBGRADE COMPACTION
4	ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN
5	ITEM 659 - SEEDING AND MULCHING
◯	TEMPORARY FILL PER ODOT GEOTECHNICAL DESIGN MANUAL

 # - SEE CROSS SECTIONS
& - MATCH EXISTING CROSS SLOPE OF SHOULDER

A - VARIES 0.04 TO 0.077





SUPERELEVATED SECTION - U.S. 24 EASTBOUND

STA. 1417+50.00 to STA. 1427+50.00

TYPICAL SECTIONS

DESIGN AGENCY

DESIGNER
KCO

REVIEWER
MJM 01-03-23

PROJECT ID
117367

SHEET P.4 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

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UTILITIES

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

(BURIED ODOT ELECTRICAL CONDUIT)
ODOT DISTRICT 1 ROADWAY SERVICES
1885 N. MCCULLOUGH ST.
LIMA, OH 45801
KORY HEFNER: 419-999-6926
CHRIS HOLMES: 419-999-6997

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.

CLEARING AND GRUBBING

THE DEPARTMENT HAS NOT MARKED INDIVIDUAL TREES AND STUMPS FOR REMOVAL. UNLESS SPECIFICALLY DESIGNATED AS "DO NOT DISTURB" IN THE PLANS, REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201 CLEARING AND GRUBBING.

WORK LIMITS

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

ROUNDING

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

EXISTING PLANS

EXISTING PLANS ENTITLED "PAU/DEF-24-12.30/0.00" MAY BE INSPECTED IN THE ODOT DISTRICT 1 OFFICE IN LIMA, OHIO

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN CONSTRUCTION LIMITS. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 FOR TABLES CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING ON THIS PROJECT:

PROJECT CONTROL
POSITIONING METHOD: ODOT VRS NETWORK (2011) AND DIFFERENTIAL LEVELING
MONUMENT TYPE: TYPE B

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: 18

HORIZONTAL POSITIONING
REFERENCE FRAME: NAD83 (2011 ADJ)
ELLIPSOID: GRS 80
COORDINATE SYSTEM: O.D.O.T. PAULDING LDP*
PAULDING LDP PROJECTION PARAMETERS:
PROJECTION: LCC 1 PARALLEL
CENTRAL LATITUDE: N 41°06'00"
CENTRAL LONGITUDE: W 84°33'00"
FALSE NORTHING: 100,000 METERS
FALSE EASTING: 50,000 METERS
PROJECTION SCALE FACTOR: 1.000029
*The Low Distortion Projection (LDP) is a local County projection developed by O.D.O.T. The distortion between ground and grid is so minimal that there is no need for a scale factor to adjust between grid and ground coordinates. Contact the District Survey Department for further information or questions.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

BASIS OF BEARINGS: BEARINGS ARE BASED ON THE O.D.O.T. LOW DISTORTION PROJECTION PAULDING COUNTY

PAU-127-15.98

BASIS OF EXISTING CENTERLINE OF R/W AND THE R/W LIMITS:
THE CENTERLINE OF RIGHT OF WAY AND RIGHT OF WAY LIMITS WERE ESTABLISHED USING THE FOLLOWING OHIO DEPARTMENT OF TRANSPORTATION PLANS:

"PAU/DEF-24-12.30/0.00 CENTERLINE PLAT" DATED 09-28-2004 & "PAU/DEF-24-12.30/0.00" DATED 12-15-2006; AS FOUND ON FILE AT THE OHIO DEPARTMENT OF TRANSPORTATION- DISTRICT ONE OFFICE AT LIMA, OHIO.

THE STATIONING FOR THE CENTERLINE OF U.S. 24 WAS ESTABLISHED BY ACCEPTNG A CONCRETE MONUMENT FOUND AS BEING P.O.T STA. 1355+00.01 AS SHOWN ON THE ABOVE NOTED PLANS.

PAU-24-13.52

BASIS OF EXISTING CENTERLINE OF R/W AND THE R/W LIMITS:
THE CENTERLINE OF RIGHT OF WAY AND RIGHT OF WAY LIMITS WERE ESTABLISHED USING THE FOLLOWING OHIO DEPARTMENT OF TRANSPORTATION PLANS:

"PAU/DEF-24-12.30/0.00" DATED 12-15-2006; AS FOUND ON FILE AT THE OHIO DEPARTMENT OF TRANSPORTATION- DISTRICT ONE OFFICE AT LIMA, OHIO.

THE STATIONING FOR THE CENTERLINE OF U.S. 24 WAS ESTABLISHED BY ACCEPTNG A CONCRETE MONUMENT FOUND AS BEING P.O.T STA. 1465+35.14 AS SHOWN ON THE ABOVE NOTED PLANS.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF SECTIONS XXIV AND XXXIV OF THE OHIO DEPARTMENT OF TRANSPORTATION SAFETY & HEALTH STANDARD OPERATING PROCEDURE 220-006(SP) EFFECTIVE: NOVEMBER 1, 2018 (EXCEPT AS AMENDED BELOW) AND ALL SUBSEQUENT UPDATES POSTED AT THE FOLLOWING WEBSITE:

HTTP://WWW.DOT.STATE.OH.US/POLICY/POLICIESANDSOPS/POLICIES/220-006(SP).PDF

AMENDMENTS TO THE REQUIREMENTS OF THIS DOCUMENT ARE:

XXIV. HEAD PROTECTION (HARD HATS)
ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR APPROPRIATE HEAD PROTECTION. ALL HARD HATS MUST MEET OR EXCEED ANSI Z89.1-2009 TYPE 1, CLASS E-G REQUIREMENTS.

XXXIV. SAFETY APPAREL AND VEST (HIGH VISIBILITY) ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR A HIGH-VISIBILITY SAFETY VEST THAT MEETS THE PERFORMANCE CLASS II OR CLASS III REQUIREMENTS OF THE ANSI/ISEA 107-2015 PUBLICATION ENTITLED "AMERICAN NATIONAL STANDARD FOR HIGH-VISIBILITY SAFETY APPAREL AND ACCESSORIES."

WORKERS MAY WEAR AN ANSI CLASS II OR ANSI CLASS III APPROVED RAIN SUIT, JACKET OR OTHER APPAREL WITHOUT A SAFETY VEST OVER IT.

ITEM 606 - GUARDRAIL, TYPE MGS, AS PER PLAN
ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN

REQUIRE STEEL POSTS AND APPROVED COMPOSITE OR POLYMER ALTERNATIVE BLOCKOUTS. THE BLOCKOUTS SHALL BE FROM THE APPROVED PRODUCTS LIST THAT IS MAINTAINED BY THE OFFICE OF ROADWAY ENGINEERING. THE STEEL POSTS AND APPROVED ALTERNATIVE MGS BLOCKOUTS SHALL BE PROVIDED AND INSTALLED PER CMS 606 AND ALL PERTINENT STANDARD DRAWINGS AND PLAN INSERT SHEETS. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING THE STEEL POSTS AND APPROVED ALTERNATIVE MGS BLOCKOUTS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 606 - GUARDRAIL, TYPE MGS, AS PER PLAN AND ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

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

ITEM 625, PULL BOX REMOVED, AS PER PLAN

CARE SHALL BE TAKEN WHEN REMOVING THE PULL BOX AT STA. 847+89.75. THE CABLES THAT RUN UNDER THE PAVEMENT SHALL NOT BE REMOVED AND THEY SHALL BE RECONNECTED IN THE PROPOSED PULL BOX. IT SHALL BE ON THE CONTRACTOR TO REPLACE THE CABLES IF ANY DAMAGE DOES OCCUR AS A RESULT OF REMOVING THE PULL BOX, EXCAVATING THE EMBANKMENT, OR ANY OTHER CONSTRUCTION ACTIVITY.

GENERAL NOTES

DESIGN AGENCY

DESIGNER KCO
REVIEWER TAB 10-31-22
PROJECT ID 117367
SHEET P.5 TOTAL 60

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

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

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTORS OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

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

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.

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, 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 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 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:

ITEM 611 - 6" CONDUIT, TYPE F = 10 FT
ITEM 611 - 8" CONDUIT, TYPE F = 10 FT

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

ITEM 613 - LOW STRENGTH MORTAR BACKFILL

IF ANY OF THE SLIDES HAVE PROGRESSED TO THE POINT WHERE VOIDS ARE CREATED UNDER THE PAVEMENT, LOW STRENGTH MORTAR BACKFILL (LSM) SHOULD BE USED TO FILL THESE VOIDS. FORMS SHOULD BE PLACED TO MAKES SURE THE LSM DOES NOT RUN DOWN THE EMBANKMENT AND THE VOIDS ARE FILLED COMPLETELY. THE UNDERDRAINS SHOULD BE CHECKED, IF POSSIBLE, TO MAKE SURE THEY ARE STILL IN WORKING ORDER AND CARE SHALL BE TAKEN AS TO NOT DAMAGE THEM DURING THE POURING OF LSM AND OTHER CONSTRUCTION ACTIVITIES (SEE "EXISTING SUBSURFACE DRAINAGE" NOTE).

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 613 - LOW STRENGTH MORTAR BACKFILL = 20 CY

PAVEMENT RESTORATION FOR DRAINAGE STRUCTURE INSTALLATIONS

THE FOLLOWING QUANTITY IS PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF ITEM 611, DRAINAGE STRUCTURES ALONG U.S. 24.

ITEM 301, ASPHALT CONCRETE BASE, PG64-22, (449) = 2 CY

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 20 INCHES AND A WIDTH OF ONE FOOT AROUND THE PERIMETER OF THE DRAINAGE STRUCTURE.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

POST CONSTRUCTION STORM WATER TREATMENT

SEE PART 1 FOR THE VEGETATED FILTER STRIPS USED AS STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PART 1 INCLUDES THE QUANTITIES NEEDED FOR THE VEGETATED FILTER STRIPS AS WELL AS THEIR LOCATIONS.

TEMPORARY SEDIMENT AND EROSION CONTROL

THESE PLANS DO NOT INCLUDE A PROJECT SITE PLAN. SEE PART 1 FOR THE PROJECT SITE PLAN AND STORM WATER POLLUTION PREVENTION ITEMS. EROSION CONTROL QUANTITIES HAVE BEEN INCLUDED IN THESE PLANS.

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

ITEM 607 - FENCE REMOVED AND REBUILT

CAREFULLY REMOVE, RECONDITION, AND RE-ERECT FENCE AND COMPONENT PARTS AS DETAILED ON THE PLANS. DO NOT DAMAGE THE FENCE OR COMPONENT PARTS. ANY NEW PARTS WHICH ARE NEEDED, AS DETERMINED BY THE ENGINEER, WILL BE SUPPLIED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.

THE AMOUNT OF REMOVED AND REBUILT FENCE TO BE PAID FOR WILL BE THE NUMBER OF FEET REMOVED, REBUILT, COMPLETE IN PLACE, AND MEASURED AS PROVIDED FOR IN SECTION 607.09 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

PAYMENT FOR THE ABOVE WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 607, FENCE REMOVED AND REBUILT

EXISTING R/W MONUMENTS TABLE

STATION/OFFSET (FROM C/L R/W)		PROJECT COORDINATES (SEE SURVEY PARAMETERS)		MONUMENT DESCRIPTION		R/W MON. EXPECTED TO BE DISTURBED
STATION	OFFSET	NORTHING(ft)	EASTING(ft)	PT #	DESCRIPTION	R/W MON (623 Type B)
RIGHT OF WAY MONUMENTS						
PAU-24/127 at RAMP D						
From C/L R/W US 127						
844+00.00	110.00	370912.396	155114.314	RX5	Poss. Ex. ODOT R/W monument w/in const.limits. Monument not verified during original survey for this project. Calc Coords Only	1
846+99.16	139.15	371211.156	155147.323	RX6	Poss. Ex. ODOT R/W monument w/in const.limits. Monument not verified during original survey for this project. Calc Coords Only	1
847+49.86	359.10	371259.007	155367.914	RX7	Poss. Ex. ODOT R/W monument w/in const.limits. Monument not verified during original survey for this project. Calc Coords Only	1
848+34.27	538.57	371341.090	155548.463	MN2002	Ex. ODOT R/W monument w/in const.limits	1
849+48.12	713.59	371452.671	155724.935	MN2003	Ex. ODOT R/W monument w/in const.limits	1
PAU-24-13.55						
From C/L R/W US 24						
1419+99.81	174.78	374301.559	158774.021	MN7	Ex. ODOT R/W monument w/in const.limits	1
1422+49.81	169.98	374519.634	158870.367	MN8	Ex. ODOT R/W monument w/in const.limits	1
1425+00.15	160.20	374725.287	158979.080	MN9	Ex. ODOT R/W monument w/in const.limits	1
					QUANTITY CARRIED TO GENERAL SUMMARY	8

GENERAL NOTES

DESIGN AGENCY

DESIGNER KCO

REVIEWER TAB 10-31-22

PROJECT ID 117367

SHEET P.6 TOTAL 60

ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN

ALL WORK AND REQUIRED CLOSURES SHALL BE COORDINATED WITH THE PHASING OF PART 1.

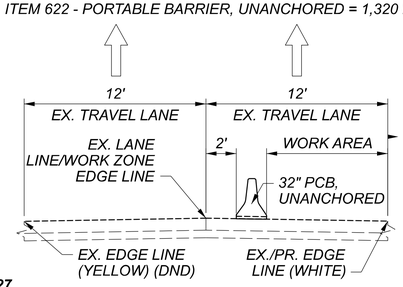
US 24 EASTBOUND

THE LEFT LANE (PASSING LANE) ON US 24 EASTBOUND SHALL REMAIN OPEN TO TRAFFIC THROUGHOUT THE DURATION OF THE PROJECT. SEE SCD MT-95.40.

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 REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

SEE THE MAINTENANCE OF TRAFFIC TYPICAL SECTION BELOW (AND SCD MT-95.40). THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614 - WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I = 0.52 MILES
ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I = 780 FT
ITEM 622 - PORTABLE BARRIER, UNANCHORED = 1,320 FT



US 127

MAINTAIN TRAFFIC ON US 127 WITH PORTABLE BARRIER AS PER STANDARD DRAWING MT-96.11 USING A ONE-LANE OPERATION LENGTH OF 600 FEET. BASED ON THIS LENGTH, THE SIGNAL TIMING IS SHOWN ON SHEET 8. MAINTAIN A MINIMUM LANE WIDTH OF 12 FEET DURING CONSTRUCTION. A QUANTITY OF 930 FEET OF PORTABLE BARRIER HAS BEEN CARRIED TO THE GENERAL SUMMARY. SEE SHEET 8 FOR WORK ZONE IMPACT ATTENUATOR INFORMATION.

RAMP D

TRAFFIC ON US 24 EB ENTRANCE RAMP FROM US 127 (ALSO IDENTIFIED AS RAMP D FROM EXISTING PLANS) SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED NINETY (90) DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON THIS SHEET. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $9,000 FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. THE DETOUR SIGNING SHALL BE ESTABLISHED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE STATE OF OHIO AS PER CMS 614.06.A.

IN ADDITION, THE CONTRACTOR SHALL INSTALL SIGN W13-H10P OR W13-H11P ALONG EASTBOUND US 24 BEFORE RAMP B (EXIT 13). THE SIGN SHALL SAY "NO REENTRY EASTBOUND". THE SIGN SHALL BE INSTALLED AND COVERED BEFORE THE RAMP IS CLOSED. IT SHALL BE UNCOVERED DURING THE ENTIRE DURATION OF THE RAMP CLOSURE AND DISMANTLED WHEN THE RAMP REOPENS.

THE FIRST DAY THAT THE DETOUR IS IN EFFECT SHALL BE CONSIDERED THE STARTING DATE OF THE 90-DAY DETOUR LIMITATION. THE 90TH DAY OF THE DETOUR LIMITATION SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE. ON OR BEFORE THE 90TH DAY, THE ROADWAY SHALL BE OPENED TO THE SAFE AND CONVENIENT USE OF THE TRAVELING PUBLIC.

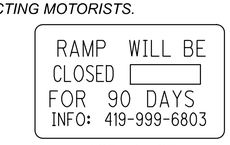
THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 DURING PERIODS IN WHICH THE AFFECTED RAMP IS CLOSED TO TRAFFIC AT LOCATIONS SPECIFIED IN CMS 614.05.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HRS & < 2 WKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HRS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP 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 OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.



W20-H13-60

Note: The Contractor is to supply DATE

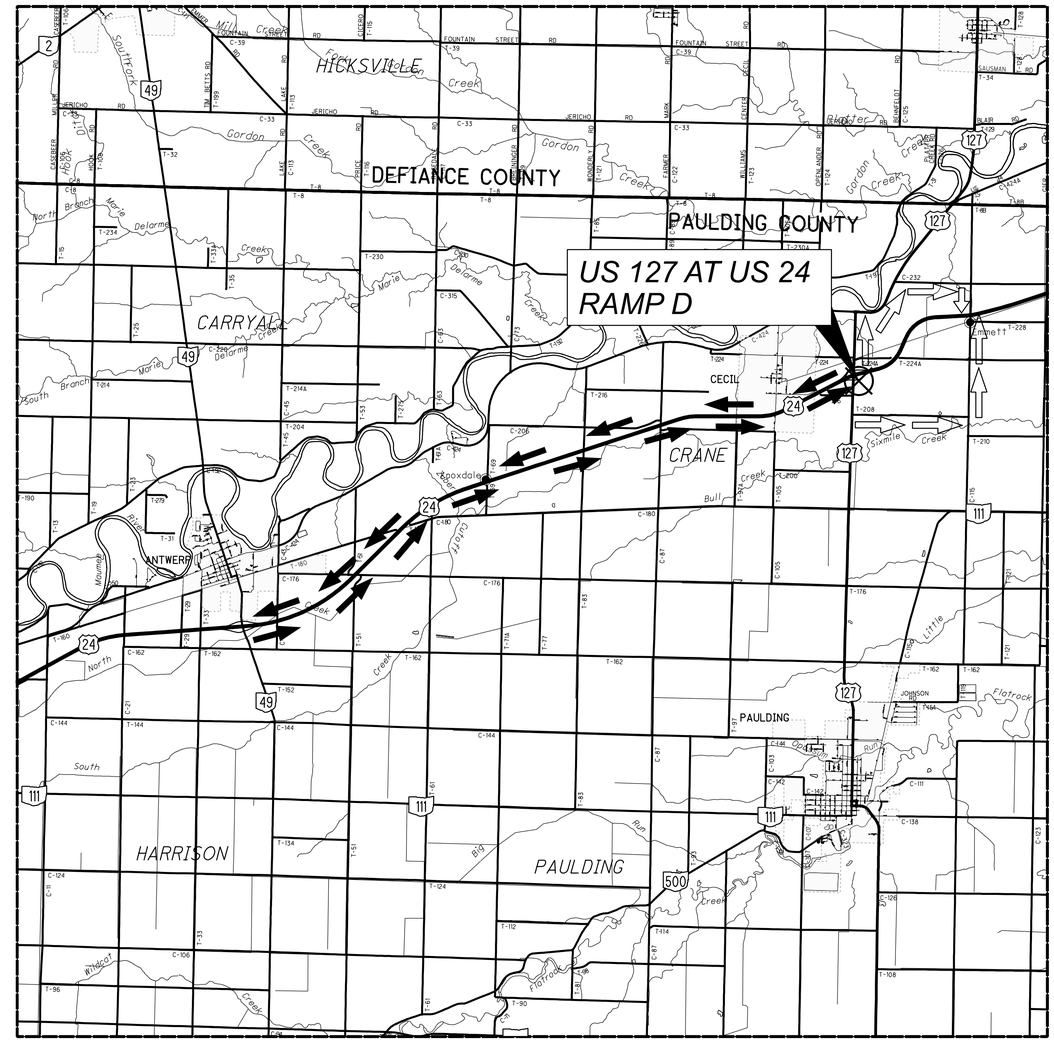
THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION.

THE MAINTENANCE OF TRAFFIC SHALL BE IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION, THE REFERENCED STANDARD CONSTRUCTION DRAWINGS INCLUDING DESIGNER NOTES, THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), POLICY NO. 516-003(P) TRAFFIC MANAGEMENT IN WORK ZONES INTERSTATE AND OTHER FREEWAYS, ODOT LOCATION AND DESIGN MANUAL, VOLUME 1, AND ALL REQUIREMENTS DETAILED IN THESE PLANS.

PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN, UNLESS SEPERATELY ITEMIZED.

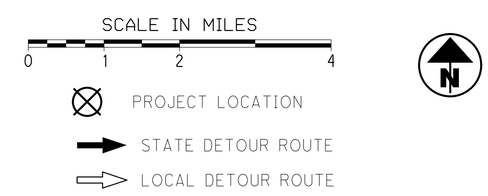
IF IN THE OPINION OF THE ENGINEER, THE CONTRACTOR FAILS TO COMPLY WITH THESE REQUIREMENTS AND THE PROVISIONS OF THE APPROVED MAINTENANCE OF TRAFFIC PLAN, THE ENGINEER SHALL SUSPEND WORK UNTIL ALL REQUIREMENTS ARE MET. ANY COST OR DELAYS INCURRED AS A RESULT OF THE FAILURE SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

DETOUR MAP



DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THIS ROUTE IS SHOWN ON THIS SHEET. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER. THE REPLACEMENT PAVEMENT FOR ITEM 253 PAVEMENT REPAIR SHALL CONSIST OF 1.5" ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 AND ITEM 407, TACK COAT PLACED ON 5" OF ITEM 301, ASPHALT CONCRETE BASE, PG64-22.



THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE AND APPROVED HAUL ROUTES.

ITEM 253 - PAVEMENT REPAIR = 20 CY
ITEM 407 - NON-TRACKING TACK COAT = 20 GAL
ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 = 10 CY
ITEM 617 - COMPACTED AGGREGATE = 50 CY

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY

DESIGNER KCO
REVIEWER MJM 01-03-23
PROJECT ID 117367
SHEET P.7 TOTAL 60

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NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HRS & < 2 WKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HRS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES AND RESTRICTIONS	>= 2 WKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER = 231 M. GAL.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL) = 45 EACH
ITEM 614, OBJECT MARKER, TWO WAY = 45 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NONGATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

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

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 614 - WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) = 1 EACH (US 24 EB)

ITEM 614 - WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL) = 1 EACH (US 127 NB)

FULLY-ACTUATED OPERATION OF WORK ZONE TRAFFIC SIGNAL

THE WORK ZONE SIGNAL CONTROL REQUIRED FOR THIS PROJECT AND SHOWN ON THIS SHEET AND TRAFFIC SCD'S MT-96.11, 96.20, AND 96.26 SHALL BE FULLY TRAFFIC-ACTUATED AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE INITIAL TIMING SHOWN ON THIS SHEET IS BASED ON THE TYPICAL FLOW RATES DISPLAYED IN TABLE 697-2 IN THE ODOT TRAFFIC ENGINEERING MANUAL (TEM). SIGNAL TIMING MAY BE ADJUSTED DURING THE PROJECT AT THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN A TRAFFIC DETECTOR ON EACH TRAFFIC APPROACH WHICH WILL RELIABLY DETECT ALL LEGAL TRAFFIC APPROACHING (BUT NOT LEAVING) THE SIGNAL AS IT PASSES OR WAITS IN THE DESIGNATED DETECTOR ZONE. DETECTOR DESIGNS WHICH DO NOT PROVIDE RELIABLE DETECTION, FREE FROM FALSE CALLS, SHALL BE IMMEDIATELY REPLACED BY THE CONTRACTOR.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

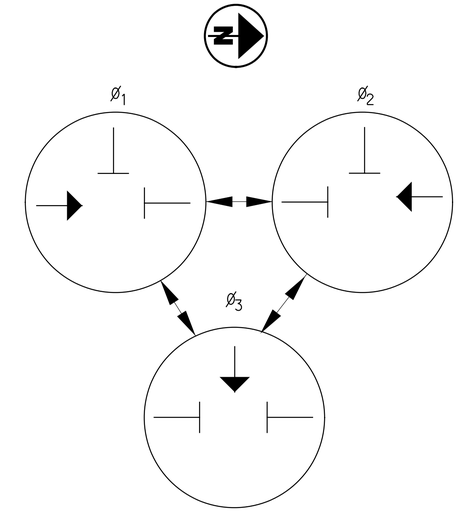
ITEM 614 - SPECIAL - WORK ZONE TRAFFIC SIGNAL = 3 EACH

ITEM 614, REPLACEMENT DRUM

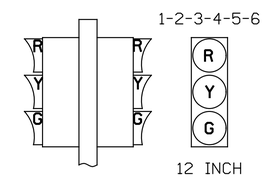
DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

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



PHASING DIAGRAM



SIGNAL INDICATORS

COLOR SEQUENCE CHART

INDICATIONS FACINGS	No	Ø1			Ø2			Ø3		
		1	2	3	4	5	6	7	8	9
NORTH BOUND US 127	1	G	Y	R	R	R	R	R	R	R
	2	G	Y	R	R	R	R	R	R	R
SOUTH BOUND US 127	3	R	R	R	G	Y	R	R	R	R
	4	R	R	R	G	Y	R	R	R	R
EAST BOUND RAMP B	5	R	R	R	R	R	R	G	Y	R
	6	R	R	R	R	R	R	G	Y	R

INITIAL TIMING CHART

INTERVAL	Ø1 NB US 127			Ø2 SB US 127			Ø3 EB RAMP B		
	1	2	3	4	5	6	7	8	9
GREEN	35			35			20		
YELLOW CHANGE		5			5			5	
ALL RED CLEARANCE			20			20			25
CYCLE LENGTH	170								

NOTE: REST IN RED (ALL APPROACHES).

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY

DESIGNER KCO
REVIEWER MJM 01-03-23
PROJECT ID 117367
SHEET P.8 TOTAL 60

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

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

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

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

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR
FOR ASSISTANCE = 30 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED. ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

R11-H5A-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

THE SIGNS ON THE MAINLINE SHALL BE DUAL MOUNTED UNLESS NOT PHYSICALLY POSSIBLE. THE FIRST SIGN SHALL BE PLACED BETWEEN THE ROAD WORK AHEAD (W20-1) SIGN AND THE NEXT SIGN IN THE SEQUENCE. SIGNS SHALL BE ERECTED ON EACH ENTRANCE RAMP AND EVERY 2 MILES THROUGH THE CONSTRUCTION WORK LIMITS. SIGNS ON THE MAINLINE SHALL BE R11-H5A-48. SIGNS USED ON THE RAMPS SHALL BE R11-H5A-24. R11-H5A-24 SIGNS MAY BE USED IN THE MEDIAN IN LIEU OF R11-H5A-48 SIGNS IF IT IS NOT PHYSICALLY POSSIBLE TO PROVIDE R11-H5A-48 SIGNS IN THE MEDIAN.

THE R11-H5A-48 SIGNS SHALL BE MOUNTED ON 2 NO. 3 POSTS WHEN LOCATED WITHIN CLEAR ZONES.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF C&MS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN = 2 EACH

WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER(S)	COUNTY-ROUTE-SECTION(S)	DIRECTION(S)
WZ-10145	PAU-24-13.22	EB

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH)
FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS

ORIGINAL POSTED SPEED LIMIT	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

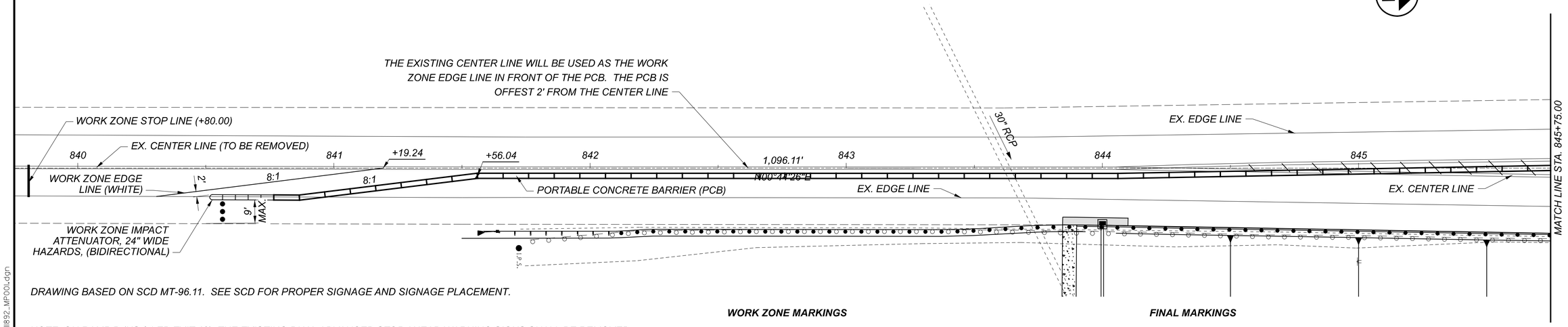
THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 808, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY
6 SIGN MNTH
ASSUMING 2 DSL SIGN ASSEMBLYIES FOR
3 MONTHS

MAINTENANCE OF TRAFFIC NOTES

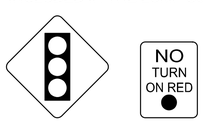
DESIGN AGENCY

DESIGNER
KCO
REVIEWER
MJM 01-03-23
PROJECT ID
117367
SHEET P.9 TOTAL 60



DRAWING BASED ON SCD MT-96.11. SEE SCD FOR PROPER SIGNAGE AND SIGNAGE PLACEMENT.

NOTE: ON RAMP B (US 24 EB EXIT 13), THE EXISTING DUAL ADVANCED STOP AHEAD WARNING SIGNS SHALL BE REMOVED, STORED, AND REPLACED WITH SIGNAL AHEAD WARNING SIGNS (W3-3) WHILE THE SIGNALS ARE IN PLACE. THE EXISTING DUAL STOP SIGNS SHALL BE COVERED OR REMOVED AND STORED, WHILE THE DO NOT ENTER SIGNS ON THE BACK OF THE STOP SIGNS SHALL REMAIN IN PLACE AND UNCOVERED. ALSO, INSTALL A NO TURN ON RED SIGN (R10-11). ALL SIGNAGE ON THE RAMP SHALL BE RETURNED TO EXISTING CONFIGURATIONS WHEN THE WORK IS COMPLETED AND THE SIGNALS ARE REMOVED. ALL WORK MENTIONED ABOVE, INCLUDING ALL LABOR, MATERIALS, AND EQUIPMENT NEEDED, SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN.



W3-3-36 R10-11-36

WORK ZONE MARKINGS

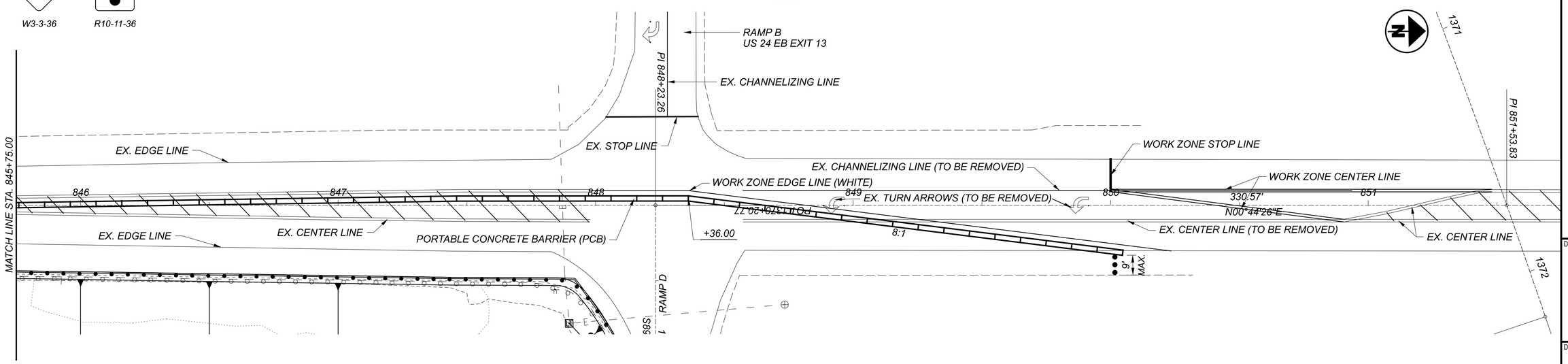
THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED IN THESE PLANS FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF C&MS 614.11.

ITEM 614 - WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I = 0.06 MI
ITEM 614 - WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I = 0.05 MI
ITEM 614 - WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I = 24 FT

FINAL MARKINGS

THE FOLLOWING ESTIMATED QUANTITIES FOR PERMANENT PAVEMENT MARKINGS HAVE BEEN CARRIED TO THE GENERAL SUMMARY DUE TO THE REMOVAL OF THE EXISTING MARKINGS FOR MOT.

ITEM 642 - CENTER LINE, TYPE 1 = 0.07 MI
ITEM 644 - CHANNELIZING LINE, 8" = 235 FT
ITEM 644 - LANE ARROW = 2 EACH



HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN
PLAN

DESIGN AGENCY

DESIGNER KCO
REVIEWER MJM 01-03-23
PROJECT ID 117367
SHEET P.10 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 2/5/2024 TIME: 10:16:14 AM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\117367\400-Engineering\Roadway\Sheets\117892_MP001.dgn

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
						5	6	13	14			02/STR/66	03/NHS/66						
																		ROADWAY	
						LS						LS	LS	201	11000	LS		CLEARING AND GRUBBING	
								9	13			9	13	202	23000	22	SY	PAVEMENT REMOVED	
								44	86			10	120	202	35100	130	FT	PIPE REMOVED, 24" AND UNDER	
								1,336	1,063			611	1,788	202	38000	2,399	FT	GUARDRAIL REMOVED	
								145				145		SPECIAL	20270120	145	FT	PIPE CLEANOUT, 27" TO 48"	6
								14,960	14,702			4,338	25,324	203	10000	29,662	CY	EXCAVATION	
								21,933	25,455			6,374	41,014	203	20000	47,388	CY	EMBANKMENT	
								168	361			66	463	204	10000	529	SY	SUBGRADE COMPACTION	
									100				100	209	10000	100	FT	DITCH CLEANOUT	
								2				2		209	15000	2	STA	RESHAPING UNDER GUARDRAIL	
								1,287.5				575	712.5	606	15051	1,287.5	FT	GUARDRAIL, TYPE MGS, AS PER PLAN	5
									1,050				1,050	606	15101	1,050	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN	5
								1				1		606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
								1	1				2	606	26550	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
									1				1	606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
								725	421			302	844	607	35000	1,146	FT	FENCE REMOVED AND REBUILT	
							8					2	6	623	40520	8	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	
												LS	LS	623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
												LS	LS	623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
								1,235	1,160			1,235	1,160	651	10000	2,395	CY	TOPSOIL STOCKPILED	
								1,235	1,160			1,235	1,160	652	10000	2,395	CY	PLACING STOCKPILED TOPSOIL	
																		EROSION CONTROL	
								83	38			37	84	601	21060	121	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
									260				260	601	28000	260	CY	DUMPED ROCK FILL, TYPE D	
								13	7			13	7	601	32200	20	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
								2	2			1	3	659	00100	4	EACH	SOIL ANALYSIS TEST	
								11,121	10,449			3,612	17,958	659	10000	21,570	SY	SEEDING AND MULCHING	
								556	522			181	897	659	14000	1,078	SY	REPAIR SEEDING AND MULCHING	
								1.6	1.5			0.5	2.6	659	20000	3.1	TON	COMMERCIAL FERTILIZER	
								2.4	2.2			0.8	3.8	659	31000	4.6	ACRE	LIME	
								61	57			20	98	659	35000	118	MGAL	WATER	
												2,000	12,000	832	30000	14,000	EACH	EROSION CONTROL	
																		DRAINAGE	
								0.2	0.6			0.2	0.6	602	20000	0.8	CY	CONCRETE MASONRY	
								10	30			10	30	611	00410	40	FT	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	
							10		30			5	35	611	01500	40	FT	6" CONDUIT, TYPE F	
							10	15				5	20	611	02600	25	FT	8" CONDUIT, TYPE F	
								48	235			48	235	611	05200	283	FT	12" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21	
								1	3			1	3	611	98180	4	EACH	CATCH BASIN, NO. 3A	
							20					5	15	613	41200	20	CY	LOW STRENGTH MORTAR BACKFILL	
																		PAVEMENT	
								2					2	254	01000	2	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 2" DEPTH	
							2						2	301	56000	2	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
								32	61			14	79	304	20000	93	CY	AGGREGATE BASE	
								8				8		452	13060	8	SY	9.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
									927				927	609	23000	927	FT	COMBINATION CURB AND GUTTER, TYPE 4	
								1,008				395	613	609	24510	1,008	FT	CURB, TYPE 4-C	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER
KCO

REVIEWER
TAB 10-31-22

PROJECT ID
117367

SHEET P.11 TOTAL 60

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
			6	7	8	9	10	13	14	36		02/STR/04	03/NHS/04						
																		LIGHTING	
								6					6	625	00480	6	EACH	CONNECTION, UNFUSED PERMANENT	
								624					624	625	24320	624	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
								614					614	625	29002	614	FT	TRENCH, 24" DEEP	
								2					2	625	30706	2	EACH	PULL BOX, 725.08, 24"	
								1					1	625	31511	1	EACH	PULL BOX REMOVED, AS PER PLAN	5
								1					1	625	75800	1	EACH	DISCONNECT CIRCUIT	
																		TRAFFIC CONTROL	
								10				1	9	620	00500	10	EACH	DELINEATOR, POST GROUND MOUNTED	
									11				11	626	00110	11	EACH	BARRIER REFLECTOR, TYPE 2, ONE-WAY	
								22				7	15	626	00110	22	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL	
										35.5		35.5		630	06500	35.5	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9	
										2		2		630	84500	2	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
										2		2		630	85100	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
										1		1		630	85600	1	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION	
										3		3		630	86010	3	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND REERECTION	
										2		2		630	86102	2	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
							0.07					0.07		642	00300	0.07	MILE	CENTER LINE, TYPE 1	
							235					235		644	00400	235	FT	CHANNELIZING LINE, 8"	
							2					2		644	01300	2	EACH	LANE ARROW	
																		MAINTENANCE OF TRAFFIC	
				20									20	253	02000	20	CY	PAVEMENT REPAIR	
				20									20	407	20000	20	GAL	NON-TRACKING TACK COAT	
				10									10	441	70000	10	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
						30							30	614	11110	30	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
					3							3		SPECIAL	61411300	3	EACH	WORK ZONE TRAFFIC SIGNAL	8
					1								1	614	12380	1	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
					1							1		614	12384	1	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
						2							2	614	12484	2	EACH	WORK ZONE INCREASED PENALTIES SIGN	
					10								10	614	12600	10	EACH	REPLACEMENT DRUM	
					45							19	26	614	13310	45	EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	
					45							19	26	614	13360	45	EACH	OBJECT MARKER, TWO WAY	
							0.05					0.05		614	21200	0.05	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	
				0.52			0.06					0.06	0.52	614	22210	0.58	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	
				780									780	614	24402	780	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I	
							24					24		614	26400	24	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	
					231							32	199	616	10000	231	MGAL	WATER	
				50									50	617	10100	50	CY	COMPACTED AGGREGATE	
				2,250								930	1,320	622	41100	2,250	FT	PORTABLE BARRIER, UNANCHORED	
						6							6	808	18700	6	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
																		INCIDENTALS	
				LS								LS	LS	614	11001	LS		MAINTAINING TRAFFIC, AS PER PLAN	7
												LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LS	LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER
KCO

REVIEWER
TAB 10-31-22

PROJECT ID
117367

SHEET P.12 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 2/15/2024 TIME: 10:26:47 AM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\117367\400-Engineering\Roadway\Sheets\111892_GG002.dgn

SUBSUMMARIES (U.S. 127 & RAMP D)

ROADWAY & TRAFFIC CONTROL

REF NO.	SHEET NO.	STATION TO STATION			SIDE	202 GUARDRAIL REMOVED	209 RESHAPING UNDER GUARDRAIL	304 AGGREGATE BASE	606 GUARDRAIL, TYPE MGS, AS PER PLAN STRAIGHT	606 GUARDRAIL, TYPE MGS, AS PER PLAN 15' RADIUS	606 GUARDRAIL, TYPE MGS, AS PER PLAN 90' RADIUS	606 ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	606 ANCHOR ASSEMBLY, MGS TYPE T	607 FENCE REMOVED AND REBUILT	620 DELINEATOR, POST GROUND MOUNTED TYPE C	626 BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL W/W	626 BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL W/R
			TO			FT	STA	CY	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH
		US 127															
GR-1	19-20	841+50.00		843+84.50	RT		2.3	2									
GR-1	15	841+56.12		847+85.26	RT	611			575			1			1	7	
F-1	15	843+99.74		847+00.88	RT									302			
					02/STR/66 SUBTOTALS	611	2	2	575			1	0	302	1	7	
		RAMP D															
GR-2	15	1370+48.93		1371+11.96	RT	70				12.5	62.5					2	
GR-3	15-16	1371+11.96		1377+59.49	RT	655			637.5				1		9		13
F-2	15-16	1371+56.14		1375+23.88	RT									423			
					03/NHS/66 SUBTOTALS	725	0	0	712.5			0	1	423	9	15	
TOTALS CARRIED TO GENERAL SUMMARY						1336	2	2	1287.5			1	1	725	10	22	

EARTHWORK

SHEET NO.	STATION TO STATION			203 EXCAVATION	203 EMBANKMENT	659 SEEDING AND MULCHING
		TO		CY	CY	SY
	US 127					
19	841+75.00		842+50.00	0	0	49
20	843+50.00		844+50.00	220	266	662
21	845+00.00		846+00.00	2145	3193	1667
22	846+50.00		847+50.00	1973	2915	1234
			02/STR/66 SUBTOTALS	4338	6374	3612
	RAMP D					
23	1370+50.00		1371+62.50	3372	4740	1686
24	1372+00.00		1373+00.00	2739	4247	1723
25	1373+50.00		1374+50.00	2585	3720	1738
26	1375+00.00		1376+00.00	1789	2604	1609
27	1376+50.00		1378+00.00	137	248	753
			03/NHS/66 SUBTOTALS	10622	15559	7509
TOTALS CARRIED TO GENERAL SUMMARY				14960	21933	11121

DRAINAGE & EROSION CONTROL

REF NO.	SHEET NO.	STATION TO STATION			SIDE	202 PIPE REMOVED, 24" AND UNDER	SPECIAL PIPE CLEANOUT, 27" TO 48"	601 TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	601 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER T = 18"	602 CONCRETE MASONRY	611 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 8" CONDUIT, TYPE F	611 12" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21	611 CATCH BASIN, NO. 3A
			TO			FT	FT	SY	CY	CY	FT	FT	FT	EACH
		US 127												
D-1	15	843+31.36		843+95.21	LT/RT		145							
EC-1	15	843+84.50		843+90.00	RT			37.3						
D-2	15	844+00.00			RT					0.21			48	1
D-3	15	844+00.00		844+10.00	RT	10					10			
EC-2	15	843+90.00		844+05.00	RT				12.5					
					02/STR/66 SUBTOTALS	10	145	37	13	0.2	10	0	48	1
		RAMP D												
D-4	16	1372+43.17			RT	18						5		
D-5	16	1374+70.69			RT	16						10		
EC-3	16	1376+44.50		1376+50.00	RT			46.4						
					03/NHS/66 SUBTOTALS	34	0	46	0	0	0	15	0	0
TOTALS CARRIED TO GENERAL SUMMARY						44	145	83	13	0.2	10	15	48	1

SEEDING AND MULCHING CALCULATIONS (US 127)

(3612 SY OF PERMANENT SEEDED AREA)

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
651	10000	401	CY	TOPSOIL STOCKPILED (3612 SY x 4 IN) x (1 YD / 36 IN)
652	10000	401	CY	PLACING STOCKPILED TOPSOIL (3612 SY x 4 IN) x (1 YD / 36 IN)
659	00100	1	EACH	SOIL ANALYSIS TEST
659	14000	181	SY	REPAIR SEEDING AND MULCHING
659	20000	0.5	TON	COMMERCIAL FERTILIZER (3612 SY x 9 SF / 1 SY) x (30 LBS / 1000 SF) x (1 TON / 2000 LBS)
659	31000	0.8	ACRE	LIME (3612 SY x 1 ACRE / 4840 SY)
659	35000	20	MGAL	WATER (3612 SY x 9 SF / 1 SY) x (300 GAL / 1000 SF) x (1 MGAL / 1000 GAL) x 2 APPLICATIONS
02/STR/66				

SEEDING AND MULCHING CALCULATIONS (RAMP D)

(7509 SY OF PERMANENT SEEDED AREA)

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
651	10000	834	CY	TOPSOIL STOCKPILED (7509 SY x 4 IN) x (1 YD / 36 IN)
652	10000	834	CY	PLACING STOCKPILED TOPSOIL (7509 SY x 4 IN) x (1 YD / 36 IN)
659	00100	1	EACH	SOIL ANALYSIS TEST
659	14000	375	SY	REPAIR SEEDING AND MULCHING
659	20000	1.1	TON	COMMERCIAL FERTILIZER (7509 SY x 9 SF / 1 SY) x (30 LBS / 1000 SF) x (1 TON / 2000 LBS)
659	31000	1.6	ACRE	LIME (7509 SY x 1 ACRE / 4840 SY)
659	35000	41	MGAL	WATER (7509 SY x 9 SF / 1 SY) x (300 GAL / 1000 SF) x (1 MGAL / 1000 GAL) x 2 APPLICATIONS
03/NHS/66				

PAVEMENT

REF NO.	SHEET NO.	STATION TO STATION			SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	202 PAVEMENT REMOVED T = 9.5"	204 SUBGRADE COMPACTION	254 PAVEMENT PLANING, ASPHALT CONCRETE T = 2"	304 AGGREGATE BASE T = 6.5"	452 9.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	609 CURB, TYPE 4-C
			TO			FT	FT	SY	SY	SY	SY	CY	SY	FT
		US 127												
D-3	15	843+84.50		844+10.00	RT	25.5	3	8.50	8.50				7.66	
C-1	15	843+90.00		847+85.26	RT	395.3				65.88		11.90		395.30
								02/STR/66 SUBTOTALS	9	66	0	12	8	395
		RAMP D												
C-2	15-16	1370+48.93		1376+44.50	RT	612.5				102.08		18.43		612.50
EC-3	16	1376+44.50		1376+50.00	RT	5.5	3	1.83			1.83			
								03/NHS/66 SUBTOTALS	0	102	2	18	0	613
TOTALS CARRIED TO GENERAL SUMMARY									9	168	2	30	8	1008

LIGHTING

REF NO.	SHEET NO.	STATION TO STATION			OFFSET, SIDE	625 CONNECTION, UNFUSED PERMANENT	625 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	625 TRENCH, 24" DEEP	625 PULL BOX, 725.08, 24"	625 PULL BOX REMOVED, AS PER PLAN	625 DISCONNECT CIRCUIT
			TO			EACH	FT	FT	EACH	EACH	EACH
		RAMP D (03/NHS/66)									
L-1	15	1370+66.63			33.50' RT	3			1	1	1
L-2	15-16	1370+66.63		1376+75.00	14.00' RT		624	614			
L-3	16	1376+75.00			14.00' RT	3			1		
TOTALS CARRIED TO GENERAL SUMMARY						6	624	614	2	1	1

DESIGN AGENCY

DESIGNER KCO

REVIEWER TAB 10-31-22

PROJECT ID 117367

SHEET P.13 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/25/2023 TIME: 9:50:03 AM USER: kosterha
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ROADWAY & TRAFFIC CONTROL

REF NO.	SHEET NO.	STATION TO STATION			SIDE	202 GUARDRAIL REMOVED	DITCH CLEANOUT	606 GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN	606 ANCHOR ASSEMBLY, MGS TYPE T	607 FENCE REMOVED AND REBUILT	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	626 BARRIER REFLECTOR, TYPE 2, ONE-WAY WHITE
						FT	FT	FT	EACH	FT	EACH	EACH
			TO									
GR-4	17-18	1416+97.21		1427+82.32	RT	1063		1050	1		1	11
F-3	17	1418+15.26		1422+49.98	RT					421		
	35	1427+00.00		1428+00.00	RT		100					
TOTALS CARRIED TO GENERAL SUMMARY						1063	100	1050	1	421	1	11

PAVEMENT

REF NO.	SHEET NO.	STATION TO STATION			SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	202 PAVEMENT REMOVED T = 12.5"	204 SUBGRADE COMPACTION	304 AGGREGATE BASE T = 6"	609 COMBINATION CURB AND GUTTER, TYPE 4
						FT	FT	SY	SY	SY	CY	FT
			TO									
R-1	17	1417+50.00		1418+00.82	RT	50.8	-	12.70	12.70			
C-3	17-18	1417+50.00		1426+94.50	RT	926.6	3.5	360.34		360.34	60.06	926.60
TOTALS CARRIED TO GENERAL SUMMARY									13	361	61	927

DRAINAGE & EROSION CONTROL

REF NO.	SHEET NO.	STATION TO STATION			SIDE	202 PIPE REMOVED, 24" AND UNDER	601 TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	601 DUMPED ROCK FILL, TYPE D T = 18"	601 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER T = 18"	602 CONCRETE MASONRY	611 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 6" CONDUIT, TYPE F	611 12" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21	611 CATCH BASIN, NO. 3A
						FT	SY	CY	CY	CY	FT	FT	FT	EACH
			TO											
EC-4	17	1417+05.00		1418+00.00	RT			259.61						
D-6	17	1418+50.00			RT	10				0.21	10		103	1
EC-5	17	1418+50.00			RT				1.78					
D-7	17	1419+19.43			RT	18						10		
D-8	17	1419+86.80			RT	19						10		
D-9	17	1422+50.00			RT	10				0.21	10		83	1
EC-6	17	1422+50.00			RT				2.44					
D-10	18	1423+44.51			RT	19						10		
D-11	18	1426+50.00			RT	10				0.21	10		49	1
EC-7	18	1426+50.00			RT				2.89					
EC-8	18	1426+94.50		1427+00.00	RT		37.9							
TOTALS CARRIED TO GENERAL SUMMARY						86	38	260	7	0.6	30	30	235	3

EARTHWORK

SHEET NO.	STATION TO STATION			203 EXCAVATION	203 EMBANKMENT	659 SEEDING AND MULCHING
				CY	CY	SY
		TO				
	US 24 EB					
28	1417+00.00		1418+00.00	140	268	42
29	1418+50.00		1419+00.00	1757	3301	1006
30	1419+50.00		1420+50.00	3299	5954	1922
31	1421+00.00		1422+00.00	3056	5562	1867
32	1422+50.00		1423+50.00	2519	4352	1705
33	1424+00.00		1425+00.00	1922	3223	1508
34	1425+50.00		1426+50.00	1476	2222	1374
35	1427+00.00		1428+00.00	533	573	1025
TOTALS CARRIED TO GENERAL SUMMARY				14702	25455	10449

SEEDING AND MULCHING CALCULATIONS

(10449 SY OF PERMANENT SEEDED AREA)

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
651	10000	1160	CY	TOPSOIL STOCKPILED (10449 SY x 4 IN) x (1 YD / 36 IN)
652	10000	1160	CY	PLACING STOCKPILED TOPSOIL (10449 SY x 4 IN) x (1 YD / 36 IN)
659	00100	2	EACH	SOIL ANALYSIS TEST
659	14000	522	SY	REPAIR SEEDING AND MULCHING
659	20000	1.5	TON	COMMERCIAL FERTILIZER (10449 SY x 9 SF / 1 SY) x (30 LBS / 1000 SF) x (1 TON / 2000 LBS)
659	31000	2.2	ACRE	LIME (10449 SY x 1 ACRE / 4840 SY)
659	35000	57	MGAL	WATER (10449 SY x 9 SF / 1 SY) x (300 GAL / 1000 SF) x (1 MGAL / 1000 GAL) x 2 APPLICATIONS

NOTE: QUANTITIES IN THE TOTAL COLUMN CARRIED TO THE GENERAL SUMMARY

SUBSUMMARIES (U.S. 24 EB, 03/NHS/66)

DESIGN AGENCY

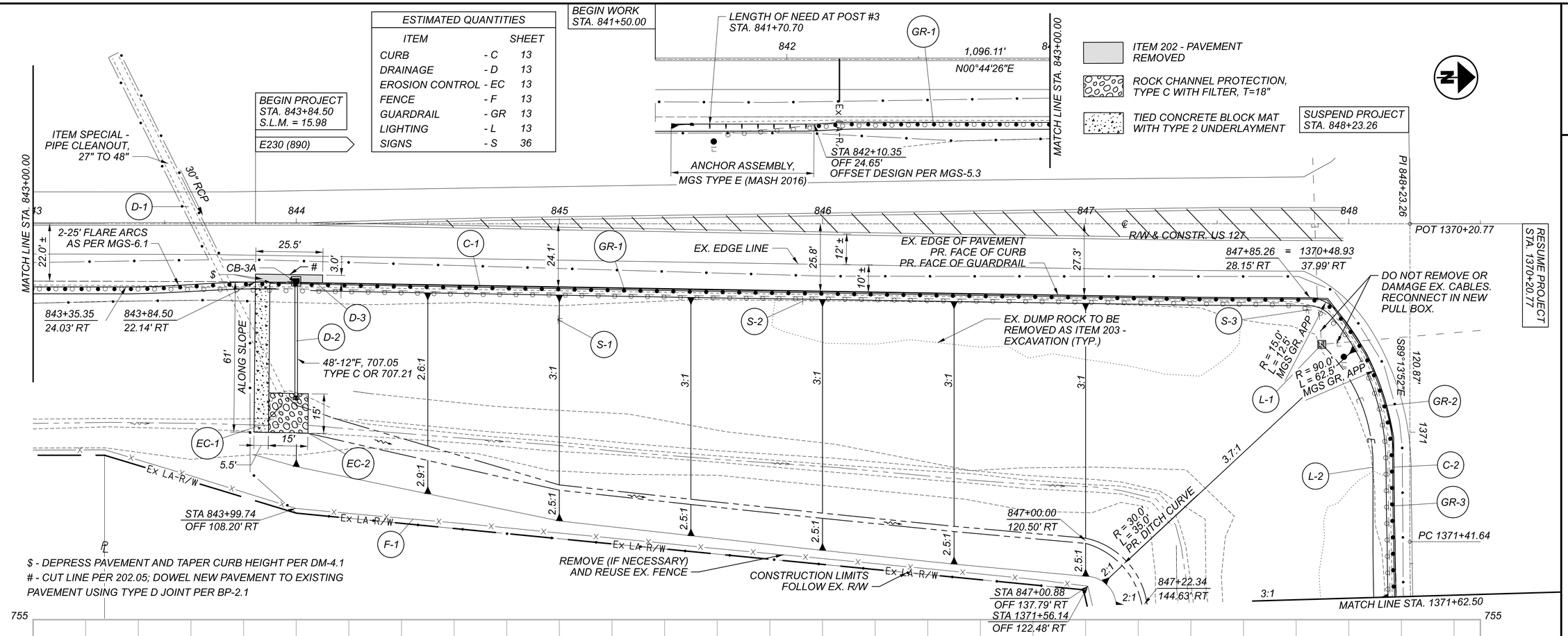
DESIGNER KCO

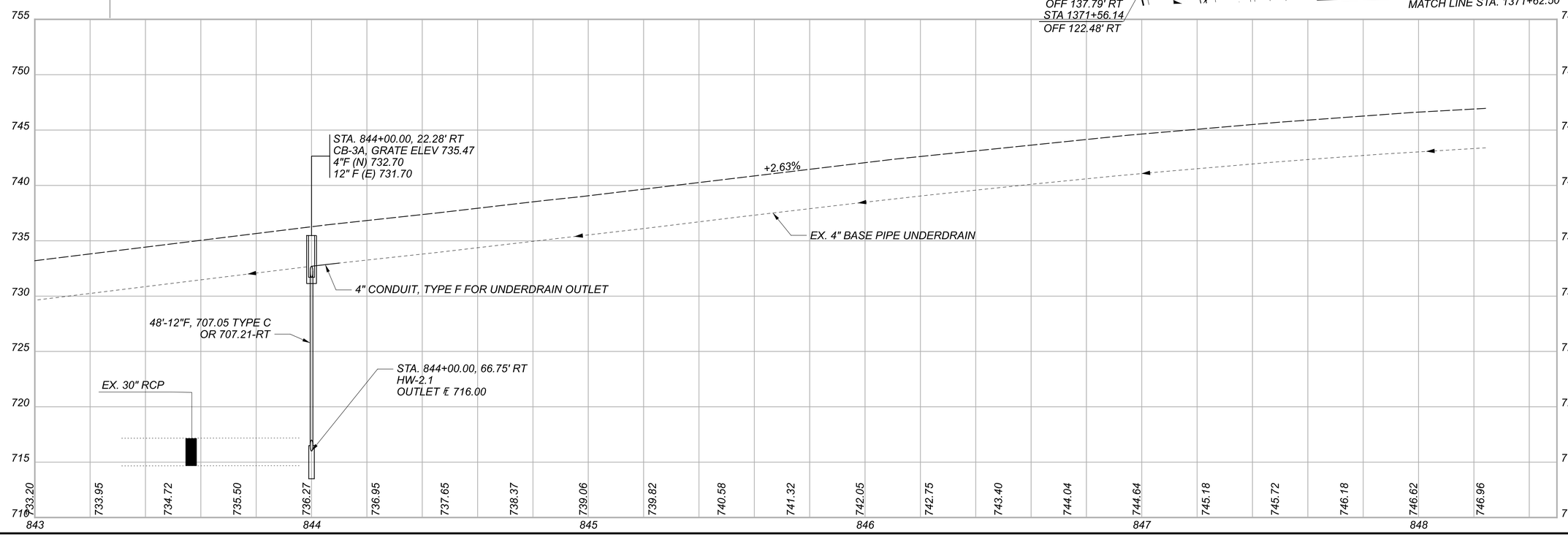
REVIEWER TAB 10-31-22

PROJECT ID 117367

SHEET P.14 TOTAL 60

ESTIMATED QUANTITIES		
ITEM		SHEET
CURB	- C	13
DRAINAGE	- D	13
EROSION CONTROL	- EC	13
FENCE	- F	13
GUARDRAIL	- GR	13
LIGHTING	- L	13
SIGNS	- S	36





PLAN AND PROFILE - U.S. 127
STA. 841+50.00 TO STA. 848+23.26

DESIGN AGENCY

DESIGNER: KCO
REVIEWER: MJM 01-04-23
PROJECT ID: 117367
SHEET: P.15 TOTAL: 60

PAU-24/127-13.55/15.98 PART 2

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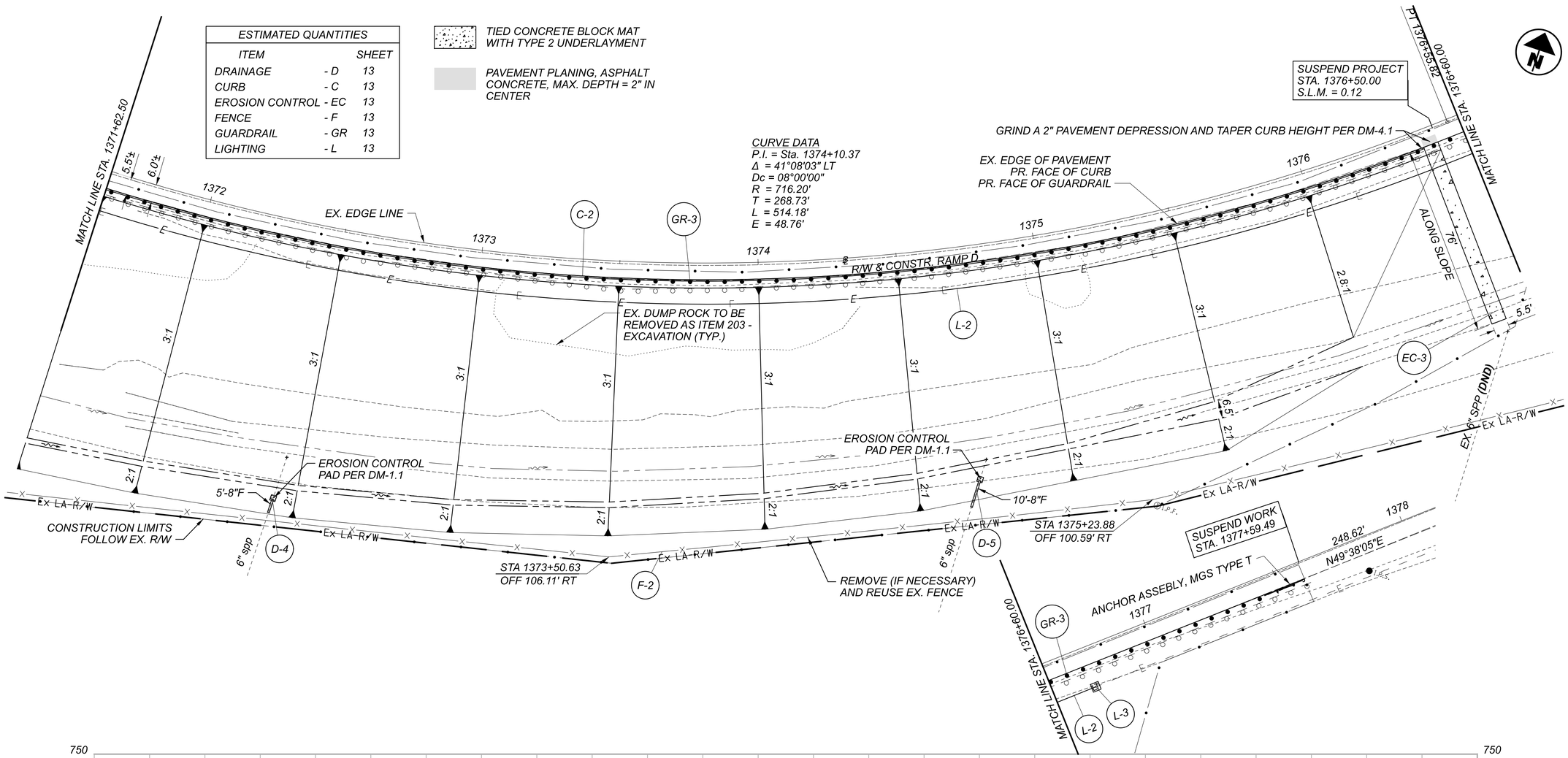
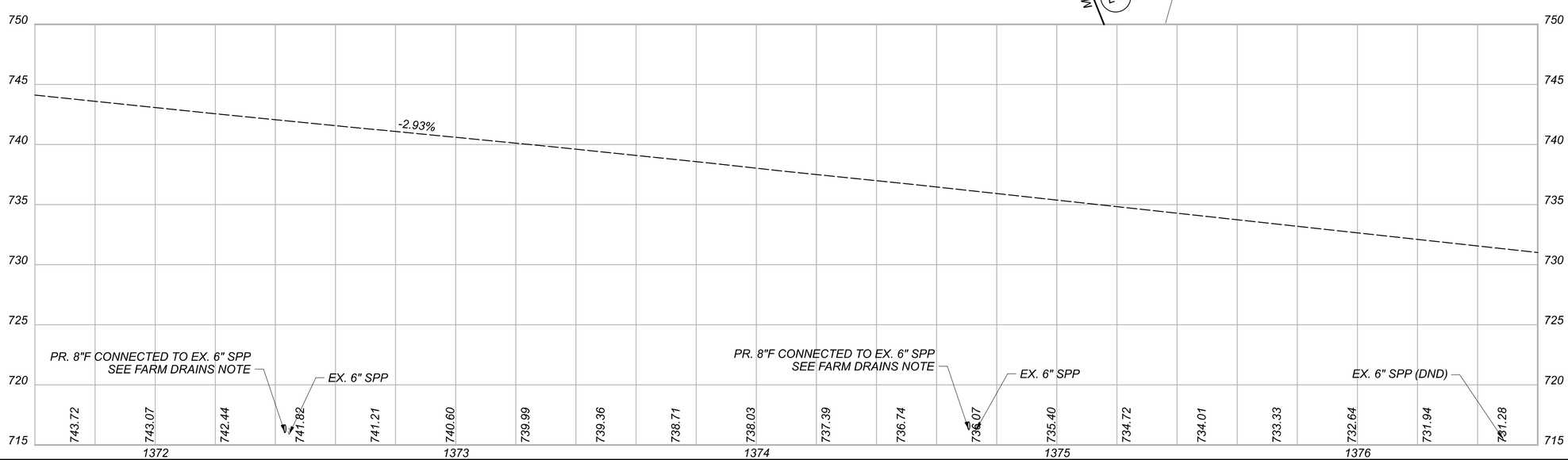
ESTIMATED QUANTITIES		
ITEM		SHEET
DRAINAGE	- D	13
CURB	- C	13
EROSION CONTROL	- EC	13
FENCE	- F	13
GUARDRAIL	- GR	13
LIGHTING	- L	13

TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT

PAVEMENT PLANING, ASPHALT CONCRETE, MAX. DEPTH = 2" IN CENTER





HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP D
STA. 1371+62.50 TO STA. 1376+60.00

DESIGN AGENCY

DESIGNER: KCO
REVIEWER: MJM 01-04-23
PROJECT ID: 117367
SHEET: P.16 TOTAL: 60

PAU-24/127-13.55/15.98 PART 2

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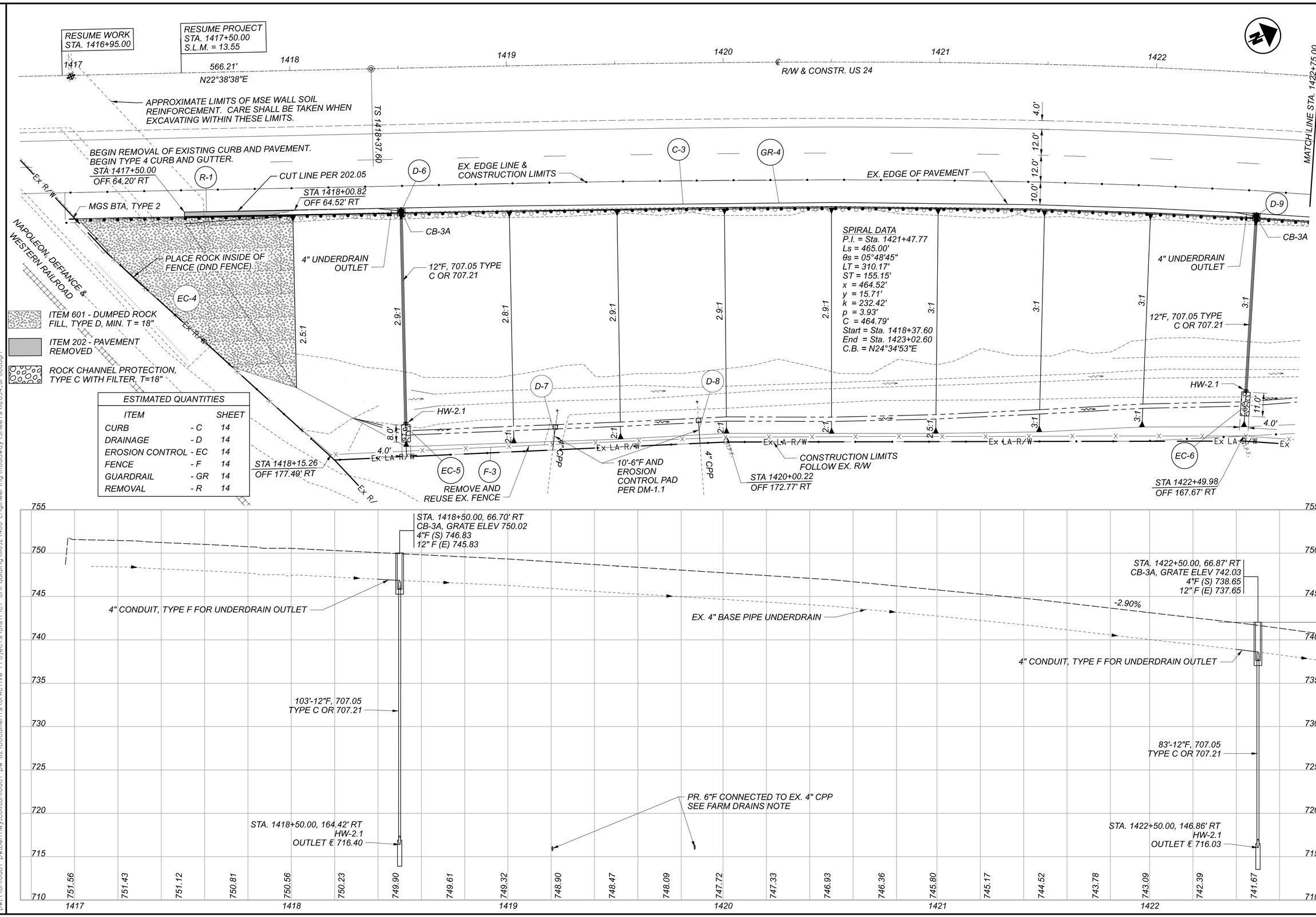

ESTIMATED QUANTITIES		
ITEM		SHEET
CURB	- C	14
DRAINAGE	- D	14
EROSION CONTROL	- EC	14
FENCE	- F	14
GUARDRAIL	- GR	14
REMOVAL	- R	14

HORIZONTAL SCALE IN FEET 0 10 20 40

PLAN AND PROFILE - U.S. 24 EASTBOUND
STA. 1416+75.00 TO STA. 1422+75.00

DESIGN AGENCY

DESIGNER KCO
REVIEWER MJM 01-04-23
PROJECT ID 117367
SHEET P.17 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

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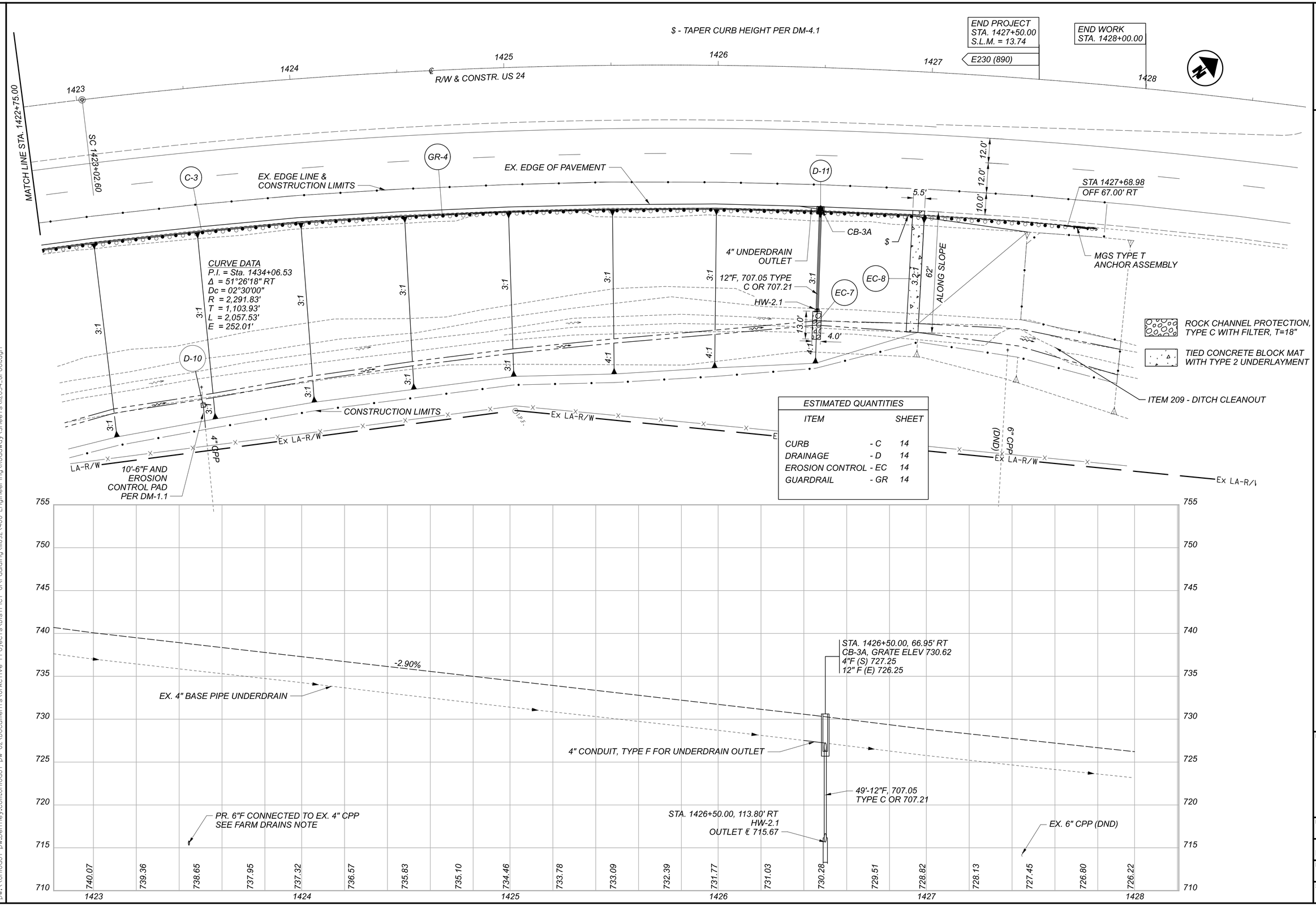

PLAN AND PROFILE - U.S. 24 EASTBOUND
STA. 1422+75.00 TO STA. 1428+75.00

PAU-24/127-13.55/15.98 PART 2

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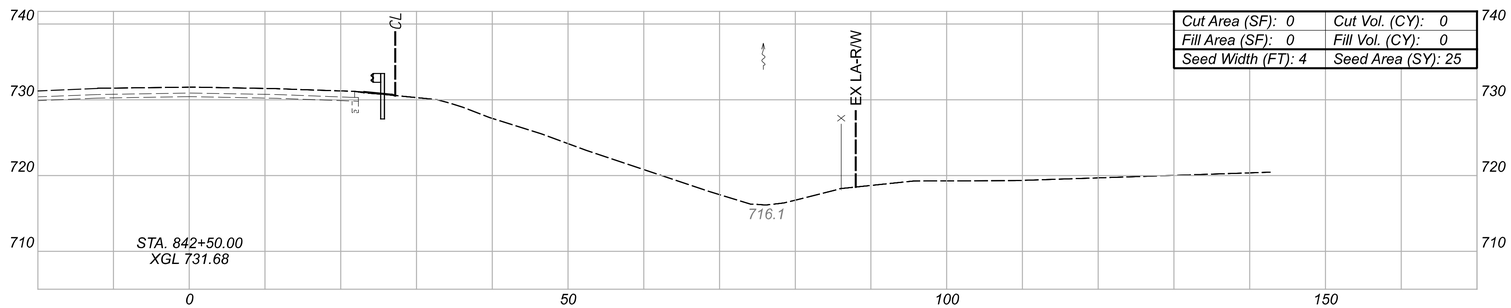
DESIGN AGENCY

DESIGNER
KCO

REVIEWER
MJM 01-04-23

PROJECT ID
117367

SHEET P.18 TOTAL 60



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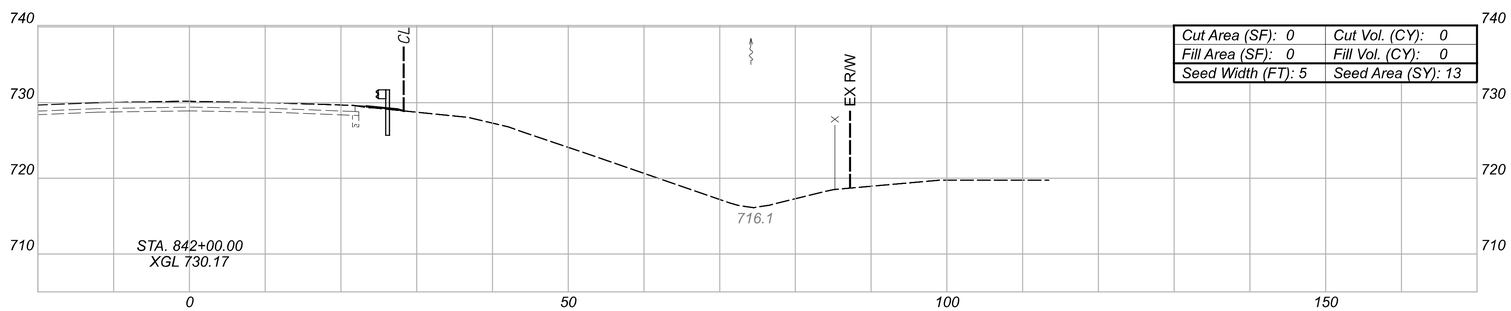

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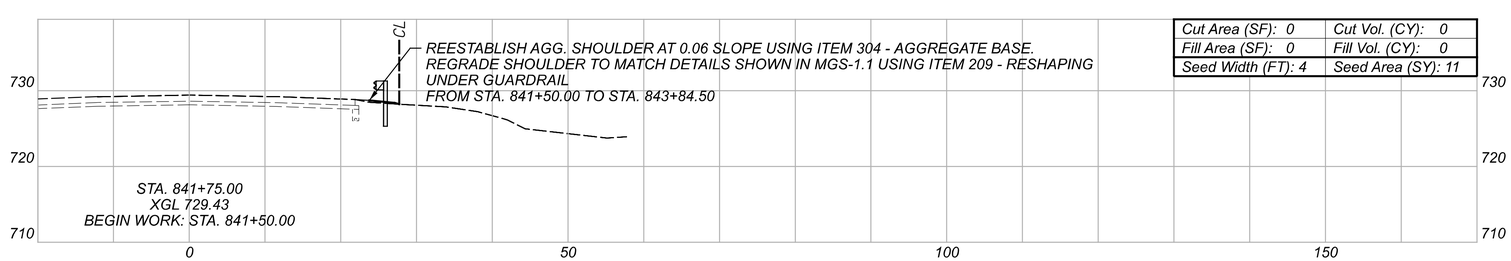

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 4	Seed Area (SY): 11

CROSS SECTIONS - U.S. 127
STA. 841+75.00 TO STA. 842+50.00

Sheet Totals		
Seeding	Cut	Fill
0	0	49

DESIGN AGENCY

DESIGNER KCO

REVIEWER MJM 01-04-23

PROJECT ID 117367

SHEET P.19 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

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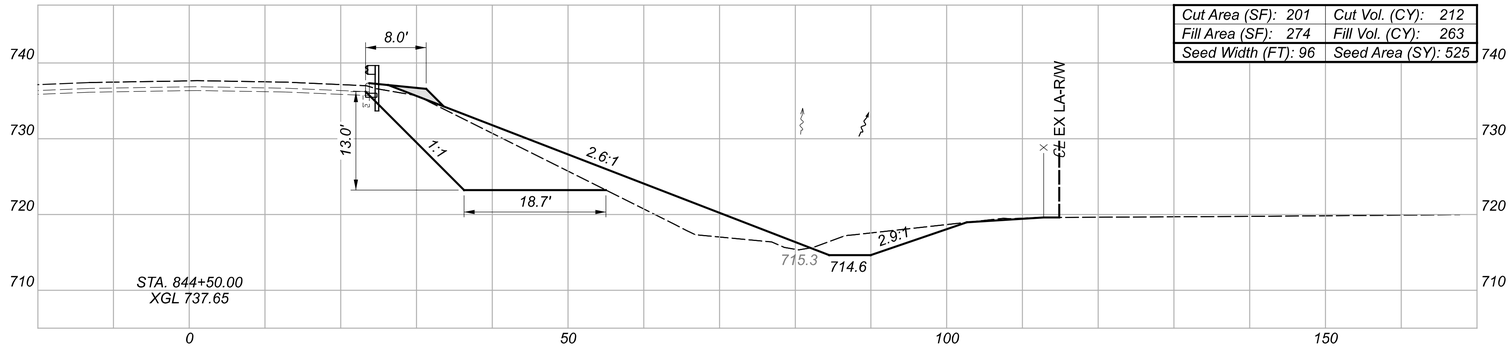
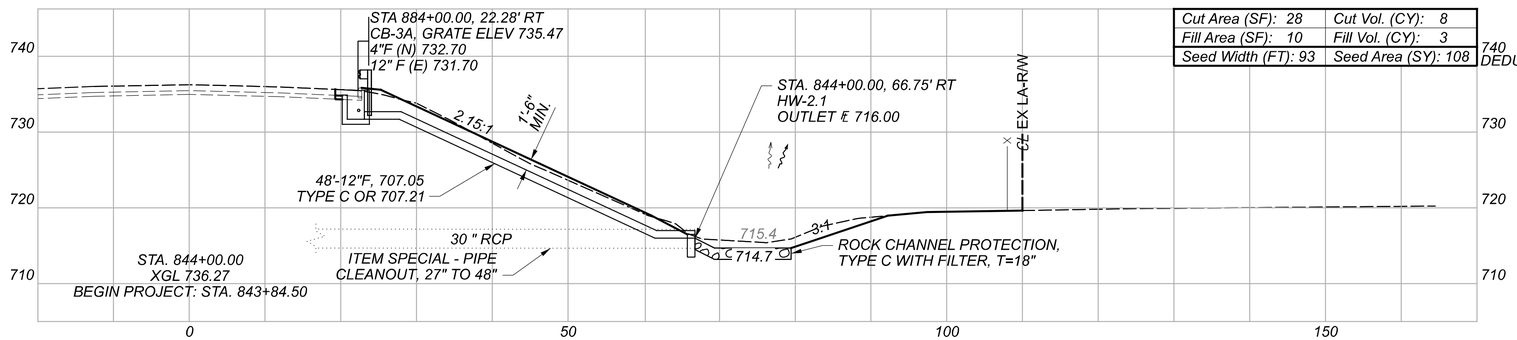


Cut Area (SF): 201	Cut Vol. (CY): 212
Fill Area (SF): 274	Fill Vol. (CY): 263
Seed Width (FT): 96	Seed Area (SY): 525

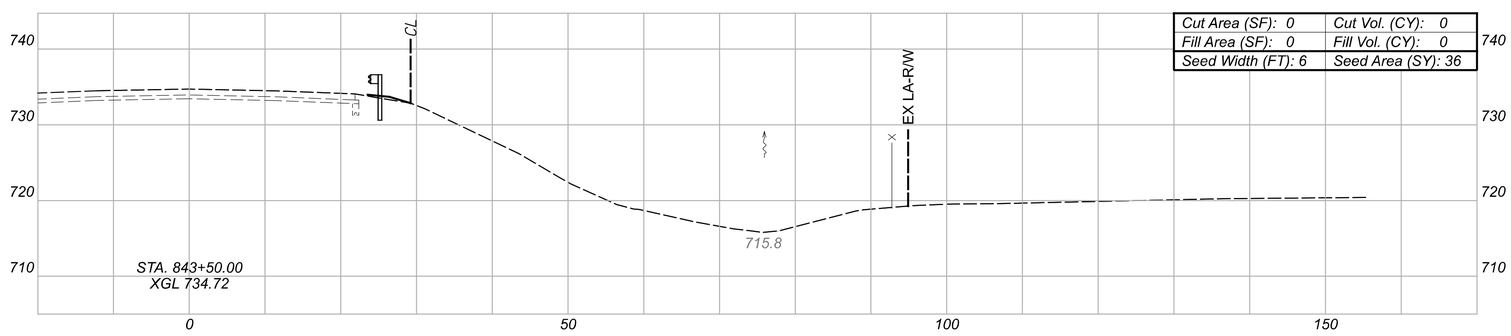
TEMPORARY FILL PER ODOT GEOTECHNICAL DESIGN MANUAL (TYP.)



Cut Area (SF): 28	Cut Vol. (CY): 8
Fill Area (SF): 10	Fill Vol. (CY): 3
Seed Width (FT): 93	Seed Area (SY): 108

DEDUCT 25 SY FOR RCP

FOR INFORMATION ONLY: IN ORDER TO KEEP AT LEAST THE 1'-6" COVER, THE PIPE BENDS SHOULD BE AT LEAST 24.5°.



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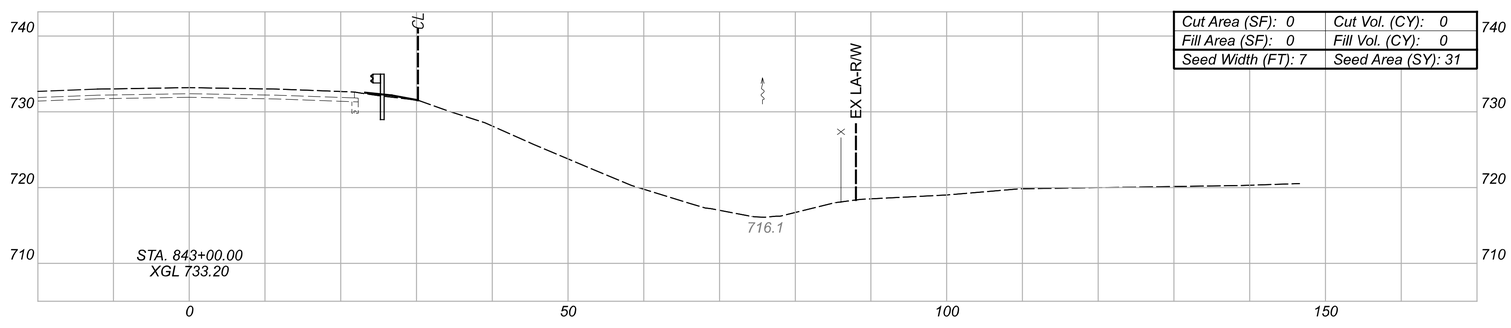
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 6	Seed Area (SY): 36



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 7	Seed Area (SY): 31

Sheet Totals		
Seeding	Cut	Fill
675	220	266

CROSS SECTIONS - U.S. 127
STA. 843+00.00 TO STA. 844+50.00

DESIGN AGENCY

DESIGNER KCO

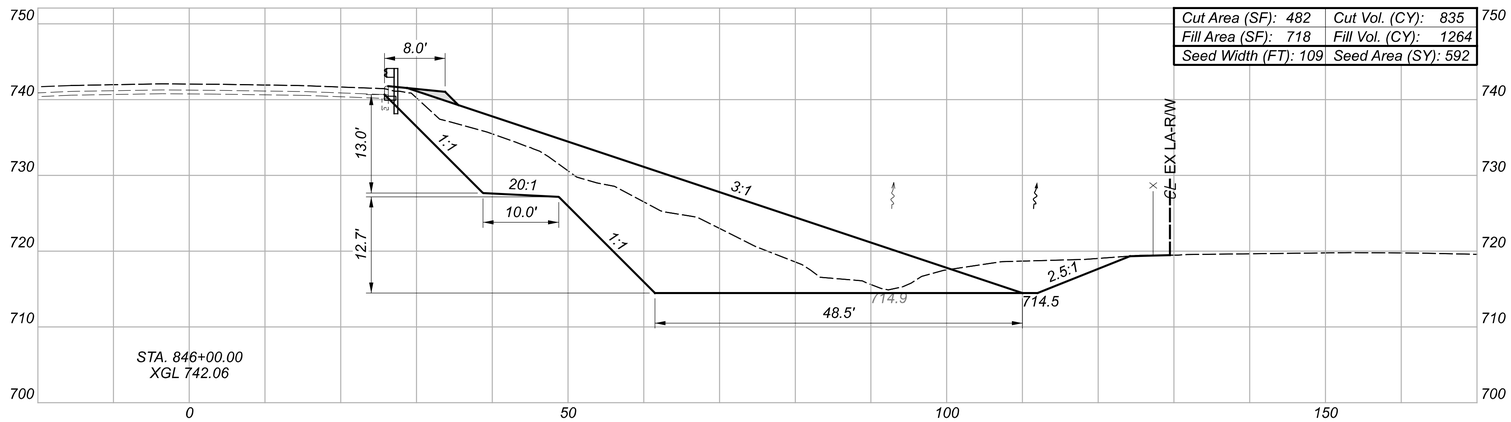
REVIEWER MJM 01-04-23

PROJECT ID 117367

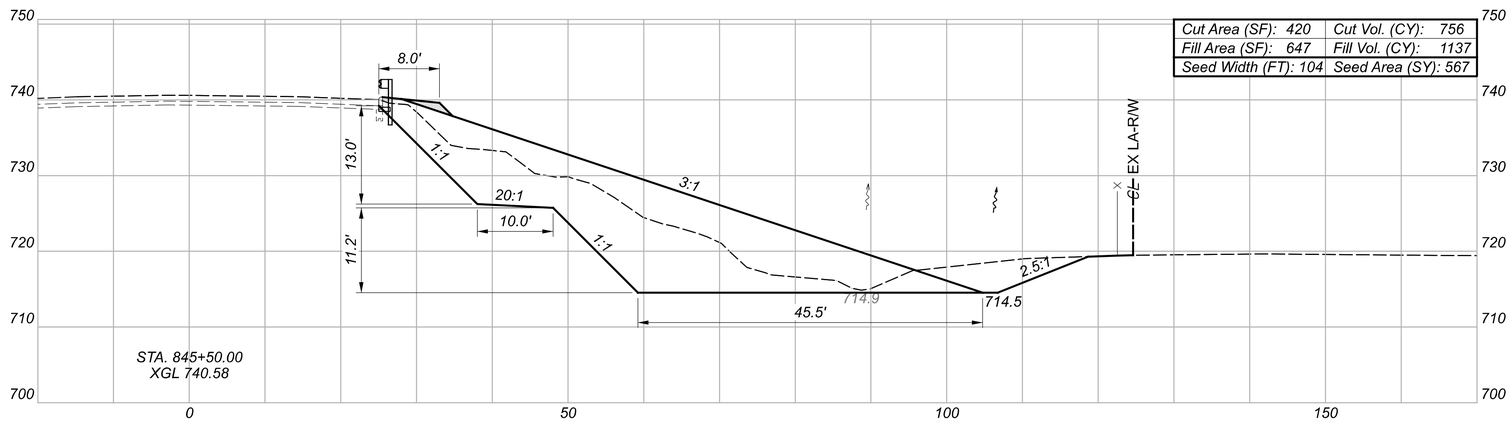
SHEET P.20 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

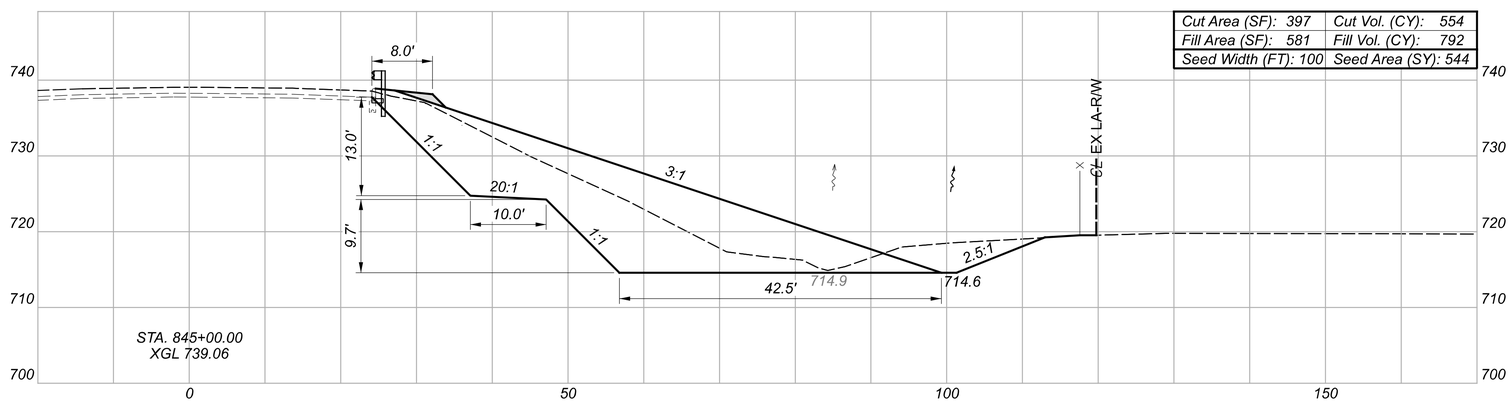
MODEL: 843+00.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 11:09:16 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\117367\400-Engineering\Roadway\Sheets\117367_XS001.dgn



Cut Area (SF): 482	Cut Vol. (CY): 835
Fill Area (SF): 718	Fill Vol. (CY): 1264
Seed Width (FT): 109	Seed Area (SY): 592



Cut Area (SF): 420	Cut Vol. (CY): 756
Fill Area (SF): 647	Fill Vol. (CY): 1137
Seed Width (FT): 104	Seed Area (SY): 567



Cut Area (SF): 397	Cut Vol. (CY): 554
Fill Area (SF): 581	Fill Vol. (CY): 792
Seed Width (FT): 100	Seed Area (SY): 544

Sheet Totals		
Seeding	Cut	Fill
1703	2145	3193

CROSS SECTIONS - U.S. 127
STA. 845+00.00 TO STA. 846+00.00

DESIGN AGENCY

DESIGNER
KCO

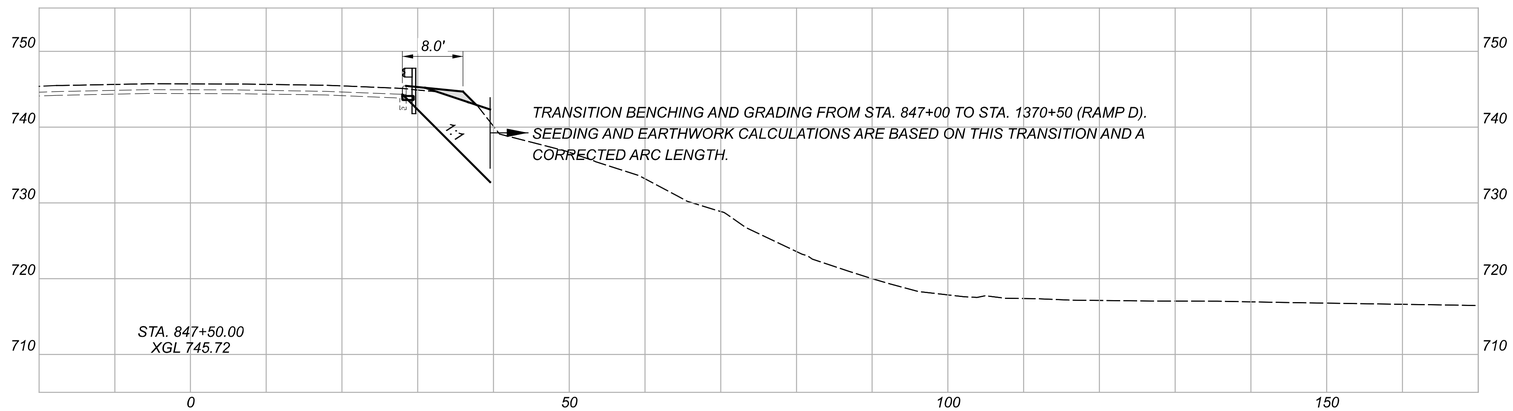
REVIEWER
MJM 01-04-23

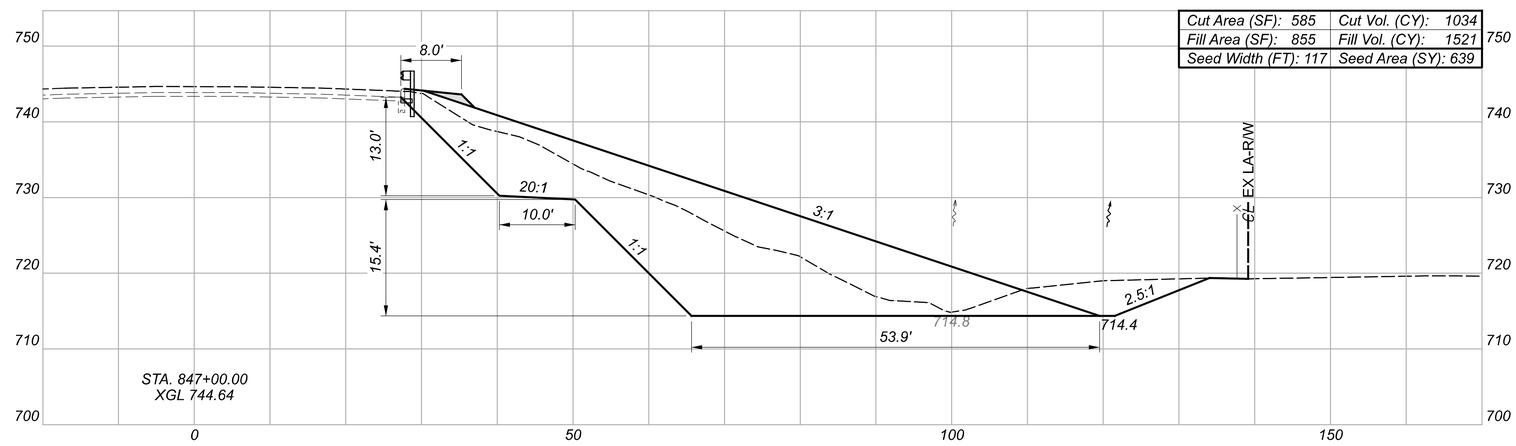
PROJECT ID
117367

SHEET P.21 TOTAL 60

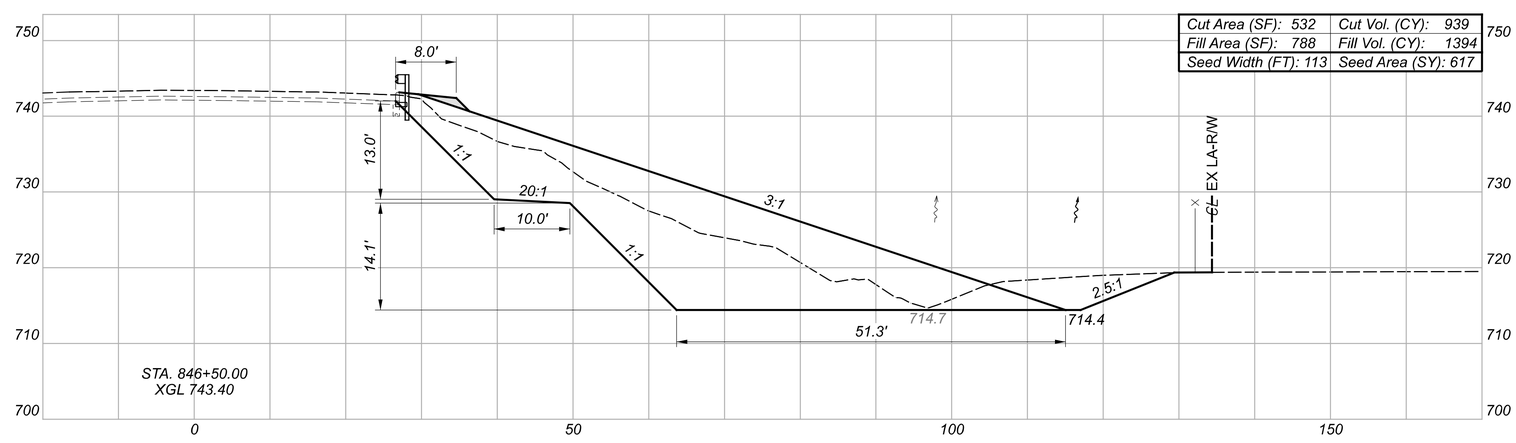
PAU-24/127-13.55/15.98 PART 2

MODEL: 845+00.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 11:09:17 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\117892\400-Engineering\Roadway\Sheets\117892_XS001.dgn





Cut Area (SF): 585	Cut Vol. (CY): 1034
Fill Area (SF): 855	Fill Vol. (CY): 1521
Seed Width (FT): 117	Seed Area (SY): 639



Cut Area (SF): 532	Cut Vol. (CY): 939
Fill Area (SF): 788	Fill Vol. (CY): 1394
Seed Width (FT): 113	Seed Area (SY): 617

Sheet Totals		
Seeding	Cut	Fill
1256	1973	2915

CROSS SECTIONS - U.S. 127
STA. 846+50.00 TO STA. 847+50.00

DESIGN AGENCY

DESIGNER
KCO

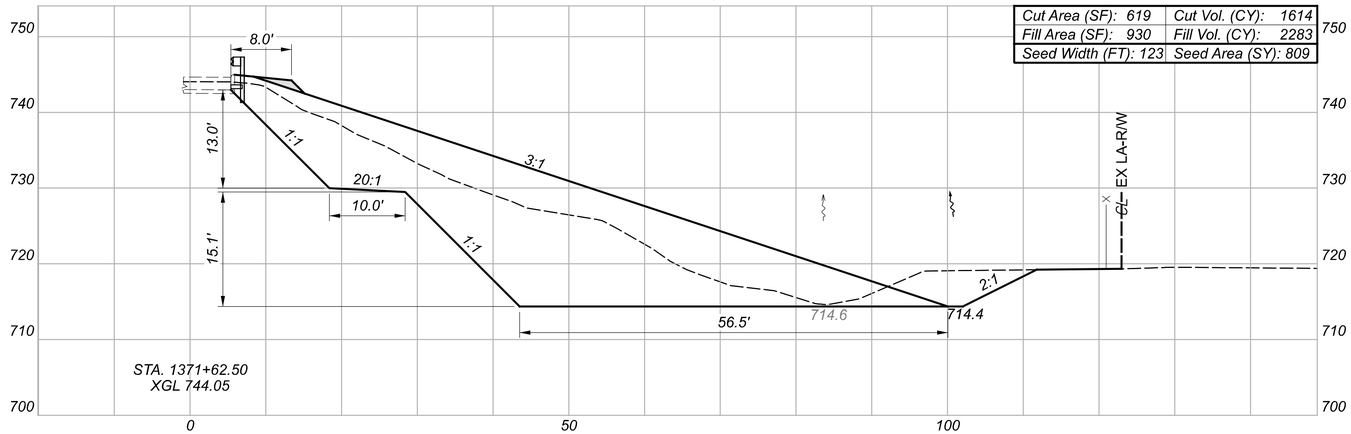
REVIEWER
MJM 01-04-23

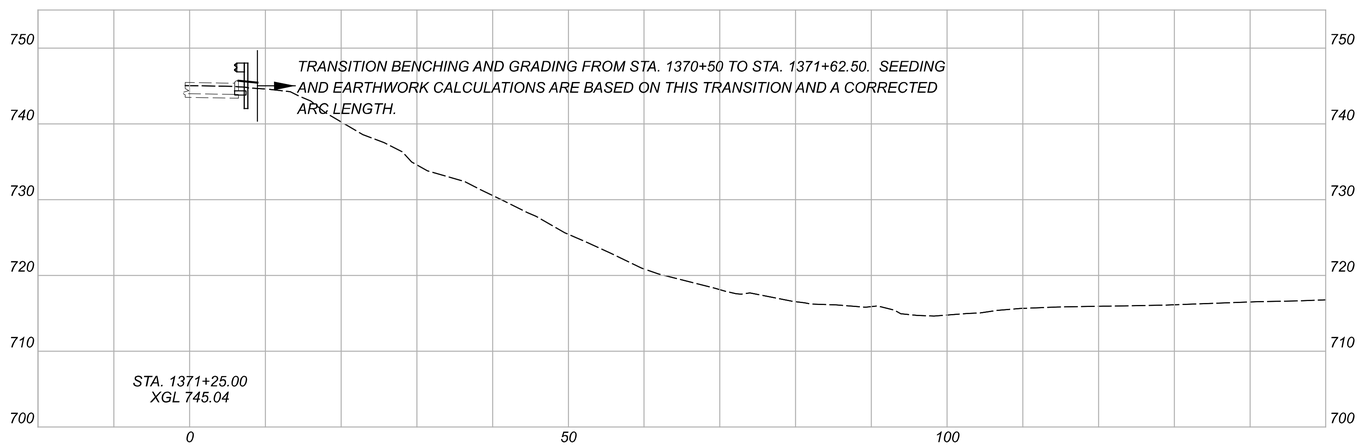
PROJECT ID
117367

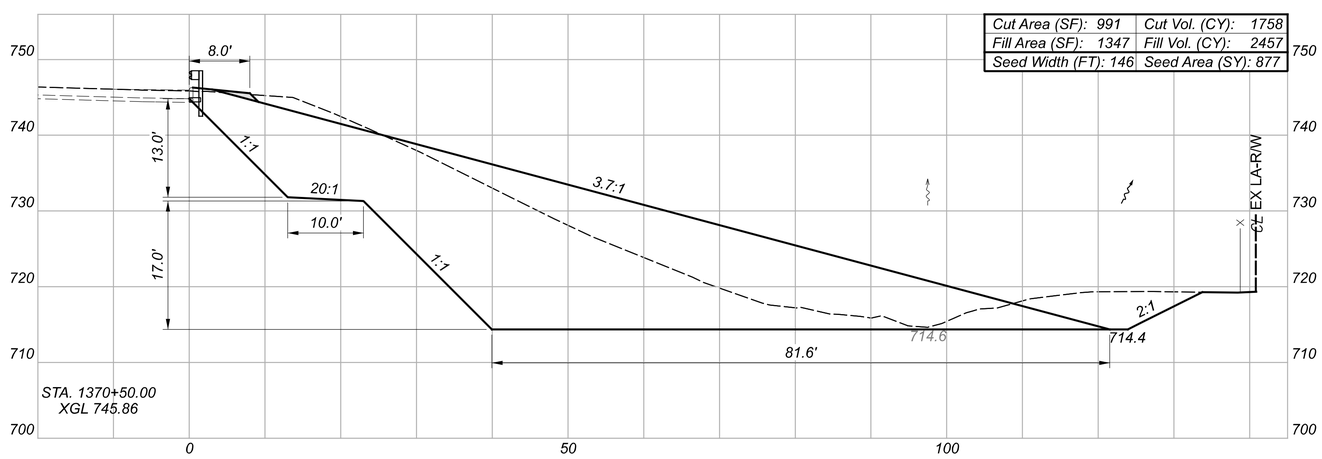
SHEET P.22 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: 846+50.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:09:17 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\117892\400-Engineering\Roadway\Sheets\117892_XS001.dgn







THIS CROSS SECTION IS NOT PERPENDICULUAR TO ℄ OF RAMP D. IT IS MEANT TO HELP SHOW THE BENCHING AND GRADING AROUND THE TRANSITION FROM U.S. 127 TO RAMP D. SEE THE PLAN VIEW FOR THE ACTUAL LOCATION OF THE CROSS SECTION. THE OFFSET IS MEASURED FROM THE EXISTING EDGE OF PAVEMENT AT THIS LOCATION.

Sheet Totals		
Seeding	Cut	Fill
1686	3372	4740

CROSS SECTIONS - RAMP D
STA. 1370+50.00 TO STA. 1371+62.50

DESIGN AGENCY

DESIGNER: KCO

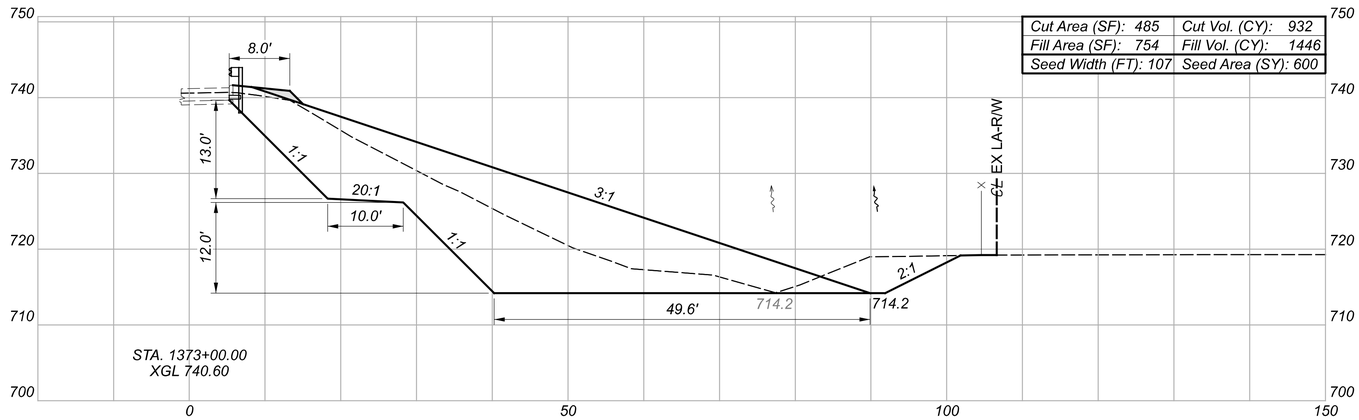
REVIEWER: MJM 01-04-23

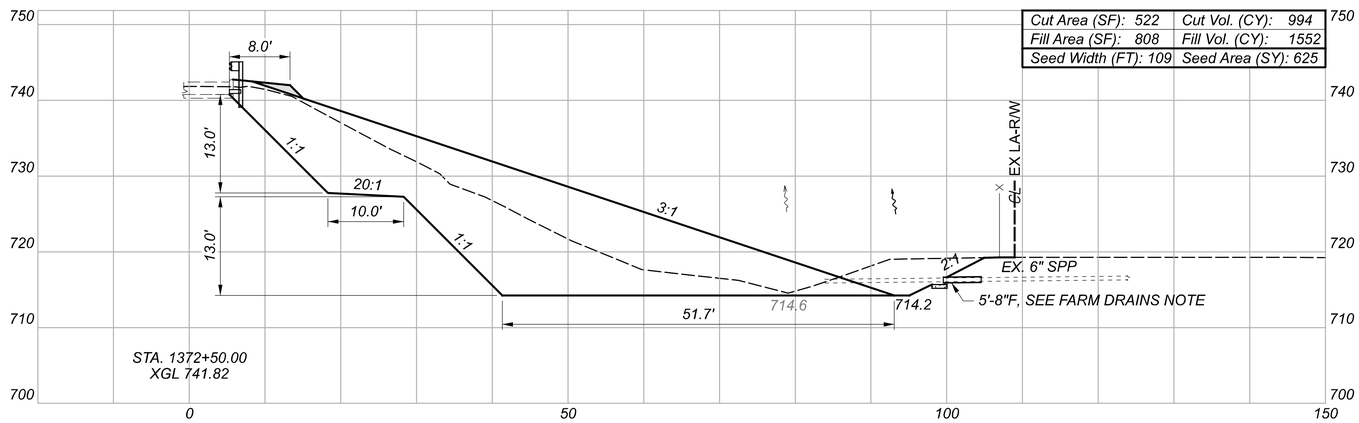
PROJECT ID: 117367

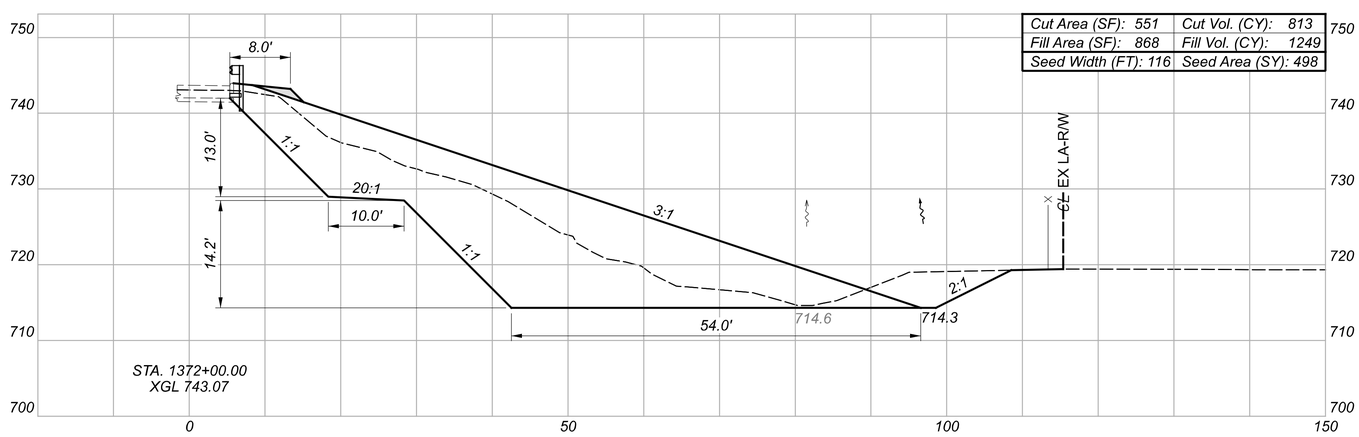
SHEET: P.23 TOTAL: 60

PAU-24/127-13.55/15.98 PART 2

MODEL: 1370+50.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:09:28 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\117892\400-Engineering\Roadway\Sheets\117892_XS002.dgn







CROSS SECTIONS - RAMP D
STA. 1372+00.00 TO STA. 1373+00.00

Sheet Totals		
Seeding	Cut	Fill
1723	2739	4247

DESIGN AGENCY

DESIGNER
KCO

REVIEWER
MJM 01-04-23

PROJECT ID
117367

SHEET P.24 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: 1372+00.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:09:29 PM USER: kosterho
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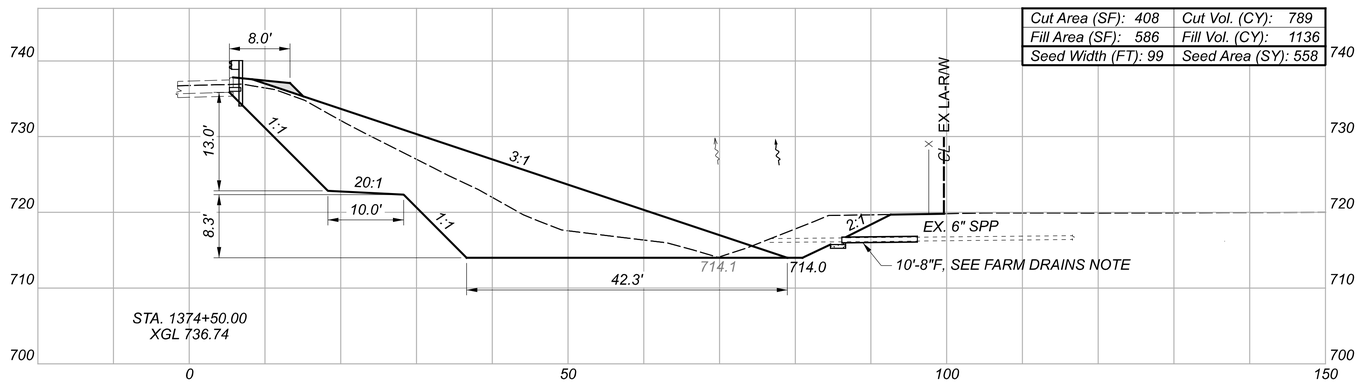
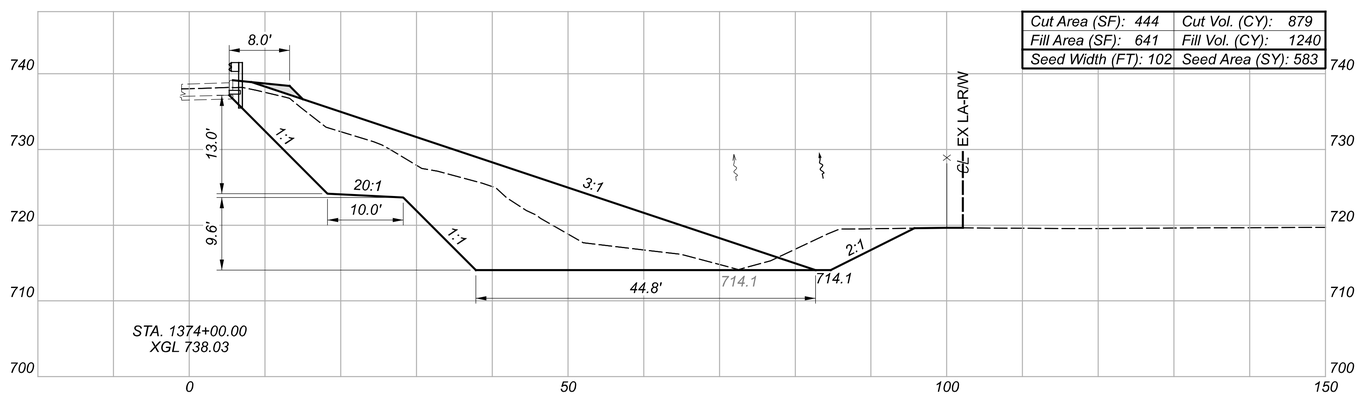
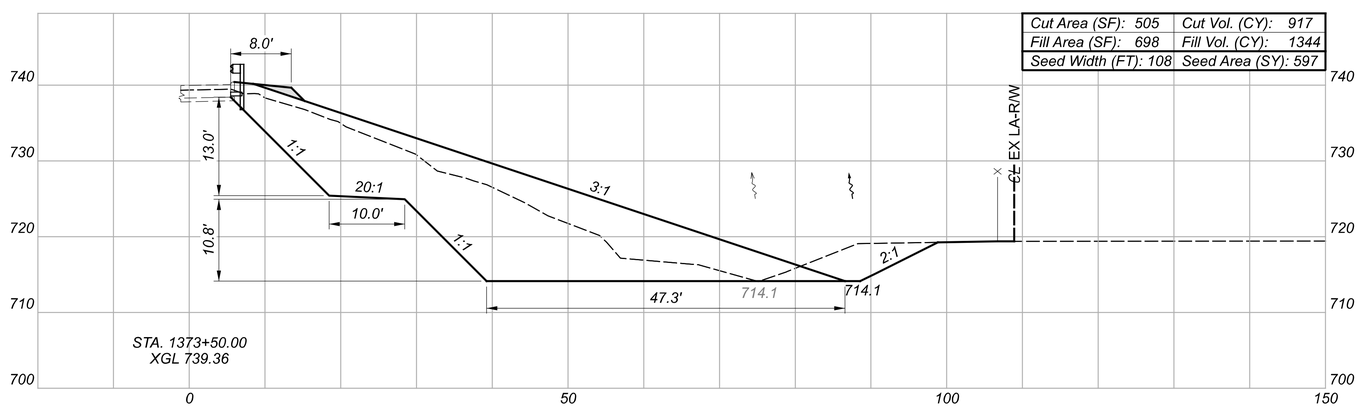






Sheet Totals		
Seeding	Cut	Fill
1738	2585	3720

CROSS SECTIONS - RAMP D
STA. 1373+50.00 TO STA. 1374+50.00

DESIGN AGENCY

DESIGNER
KCO

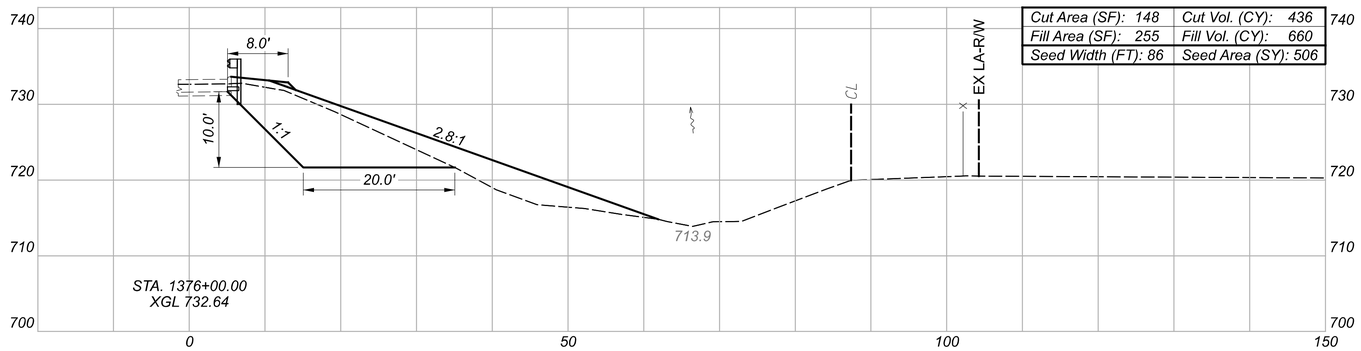
REVIEWER
MJM 01-04-23

PROJECT ID
117367

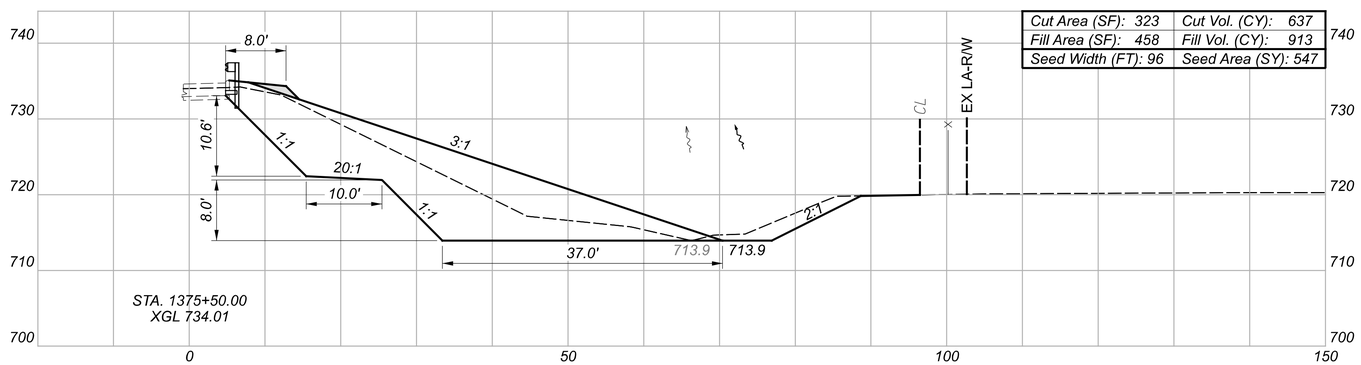
SHEET P.25 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

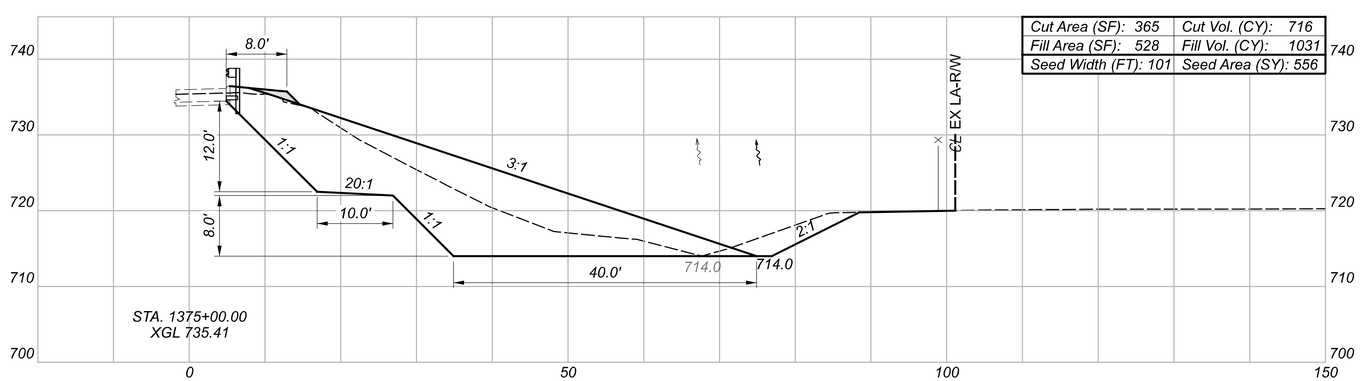
MODEL: 1373+50.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:09:30 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\118892\400-Engineering\Roadway\Sheets\118892_XS002.dgn



Cut Area (SF): 148	Cut Vol. (CY): 436
Fill Area (SF): 255	Fill Vol. (CY): 660
Seed Width (FT): 86	Seed Area (SY): 506



Cut Area (SF): 323	Cut Vol. (CY): 637
Fill Area (SF): 458	Fill Vol. (CY): 913
Seed Width (FT): 96	Seed Area (SY): 547



Cut Area (SF): 365	Cut Vol. (CY): 716
Fill Area (SF): 528	Fill Vol. (CY): 1031
Seed Width (FT): 101	Seed Area (SY): 556

PAU-24/127-13.55/15.98 PART 2

MODEL: 1375+00.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:09:30 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\117892\400-Engineering\Roadway\Sheets\117892_XS002.dgn

CROSS SECTIONS - RAMP D
STA. 1375+00.00 TO STA. 1376+00.00

Sheet Totals		
Seeding	Cut	Fill
1609	1789	2604

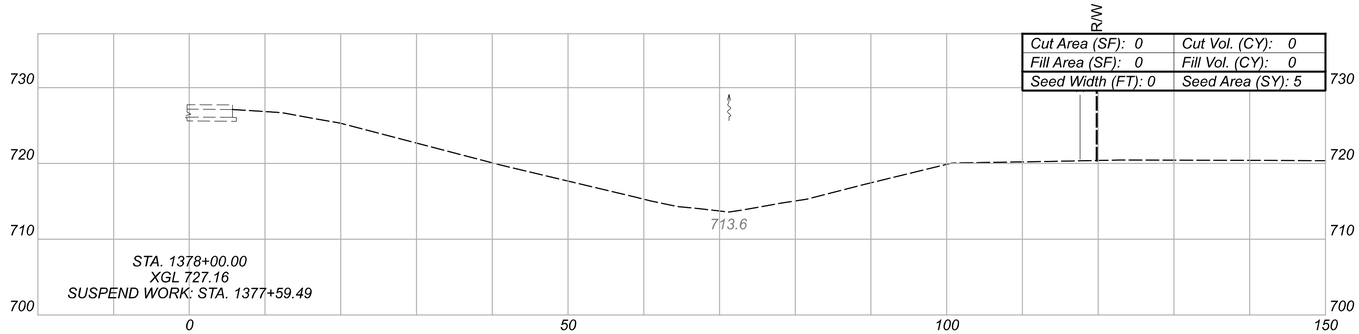
DESIGN AGENCY

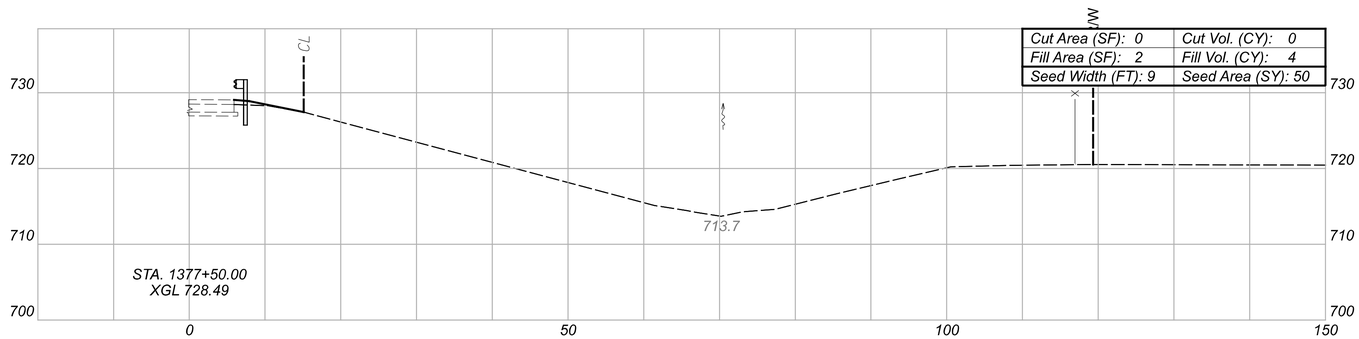
DESIGNER
KCO

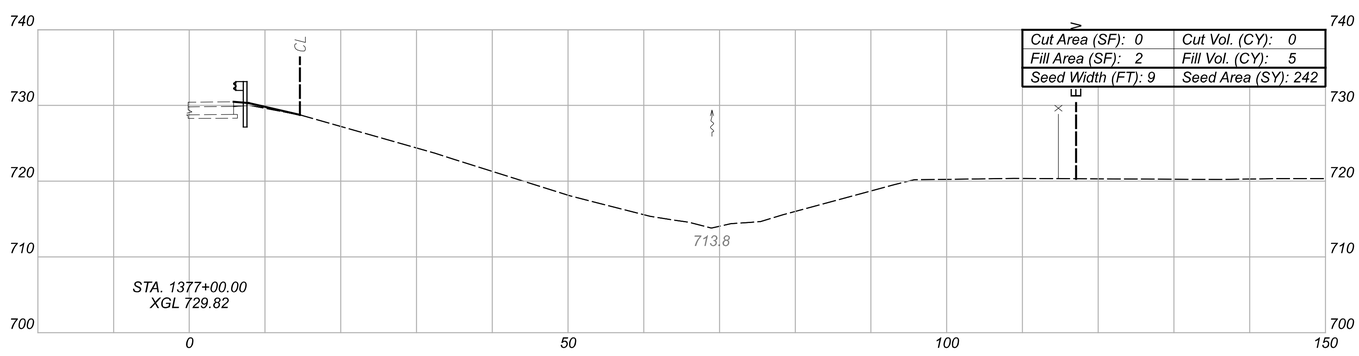
REVIEWER
MJM 01-04-23

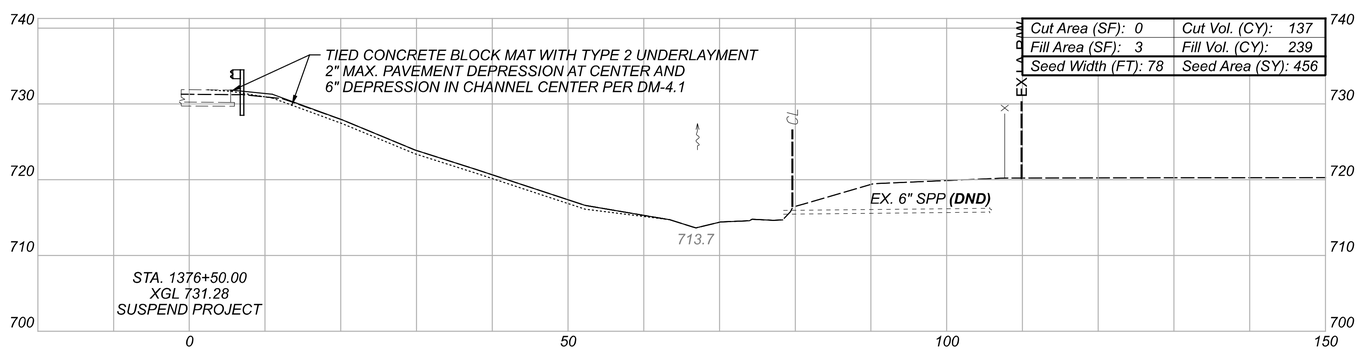
PROJECT ID
117367

SHEET P.26 TOTAL 60









CROSS SECTIONS - RAMP D
STA. 1376+50.00 TO STA. 1378+00.00

Sheet Totals		
Seeding	Cut	Fill
753	137	248

DESIGN AGENCY

DESIGNER
KCO

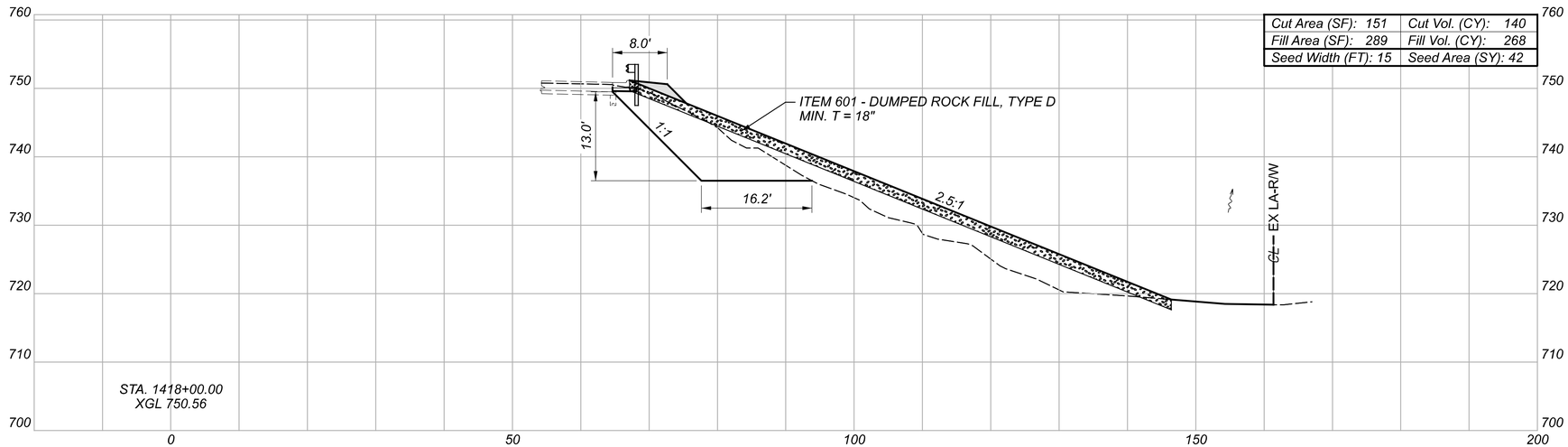
REVIEWER
MJM 01-04-23

PROJECT ID
117367

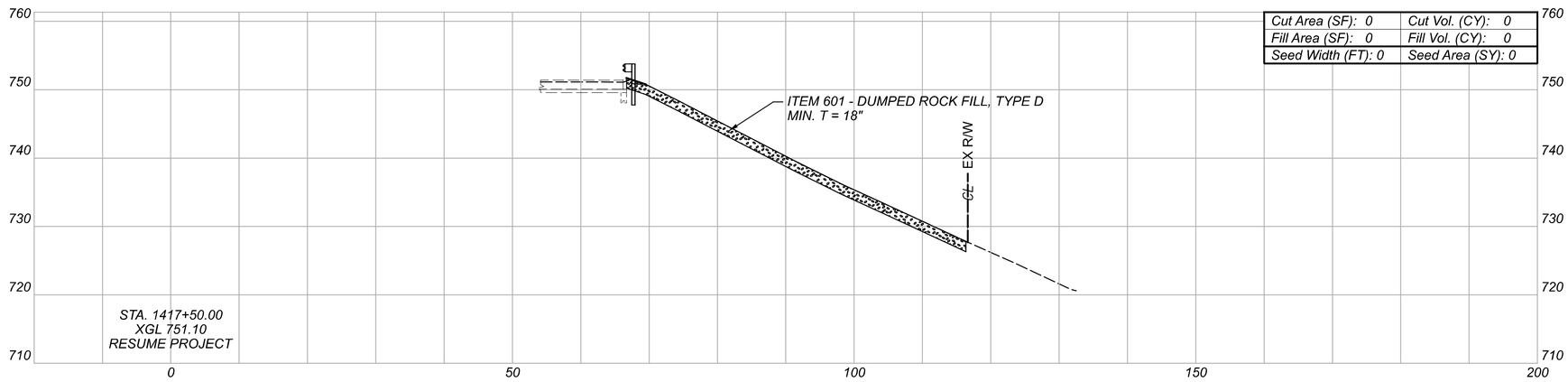
SHEET P.27 TOTAL 60

PAU-24/127-13.55/15.98 PART 2
MODEL: 1376+50.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:09:31PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\111892\400-Engineering\Roadway\Sheets\111892_XS002.dgn

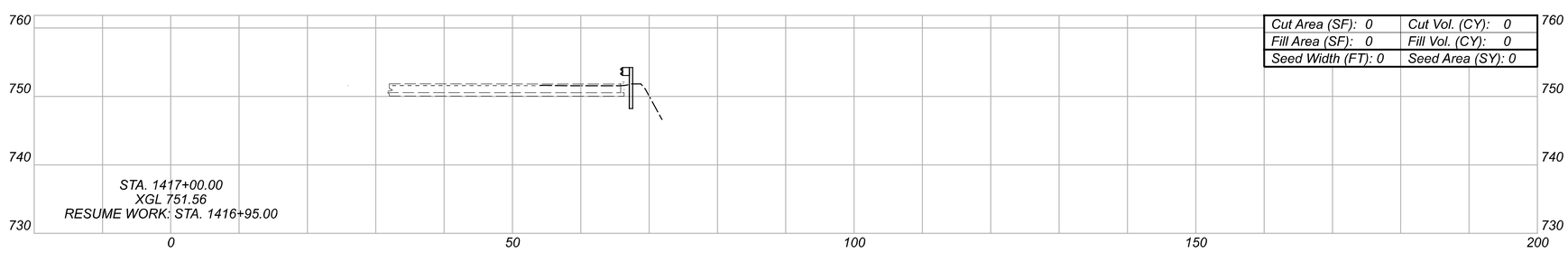
TEMPORARY FILL PER ODOT GEOTECHNICAL DESIGN MANUAL (TYP.)



Cut Area (SF): 151	Cut Vol. (CY): 140
Fill Area (SF): 289	Fill Vol. (CY): 268
Seed Width (FT): 15	Seed Area (SY): 42



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 0



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 0

CROSS SECTIONS - U.S. 24 EASTBOUND
STA. 1417+00.00 TO STA. 1418+00.0

Sheet Totals		
Seeding	Cut	Fill
42	140	268

DESIGN AGENCY

DESIGNER: KCO

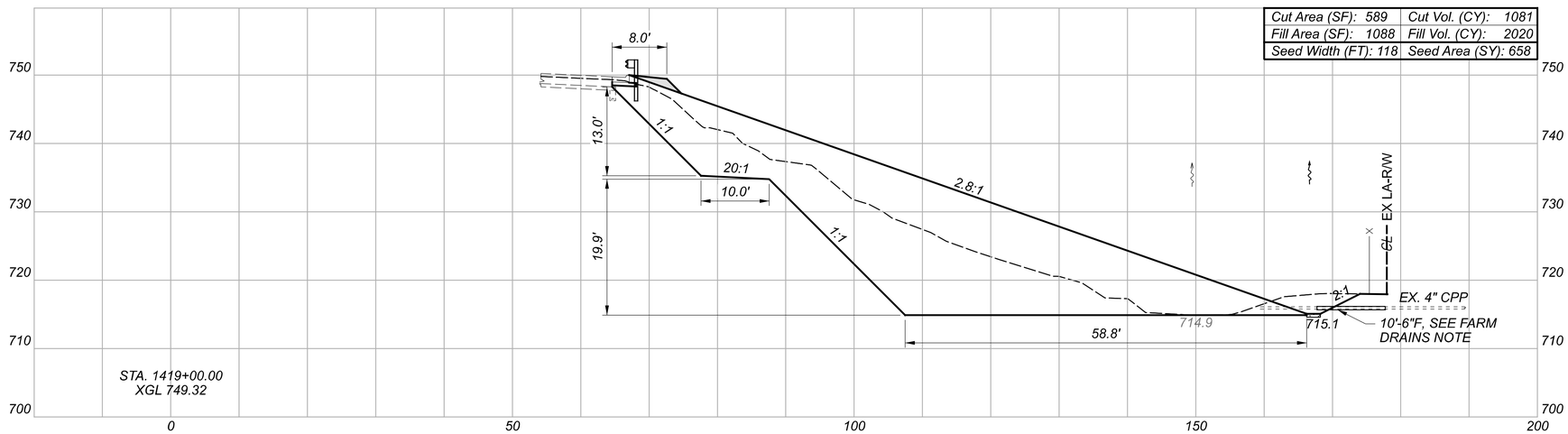
REVIEWER: MJM 01-04-23

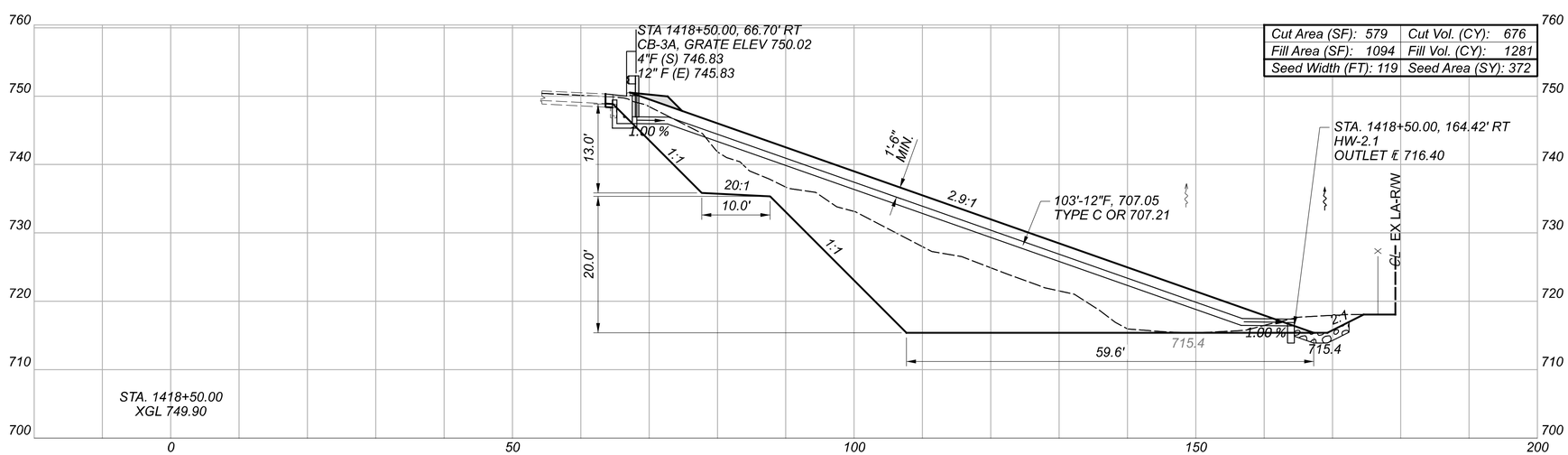
PROJECT ID: 117367

SHEET: P.28 TOTAL: 60

PAU-24/127-13.55/15.98 PART 2

MODEL: CLX_RW_U024 - I4(7+00.00-[Sheet]) PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 4:09:43 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\111892\400-Engineering\Roadway\Sheets\112034_XS001.dgn





FOR INFORMATION ONLY: IN ORDER TO KEEP AT LEAST THE 1'-6" COVER, THE PIPE BENDS SHOULD BE AT LEAST 18.5°.

CROSS SECTIONS - U.S. 24 EASTBOUND
STA. 1418+50.00 TO STA. 1419+00.00

DESIGN AGENCY

DESIGNER
KCO

REVIEWER
MJM 01-04-23

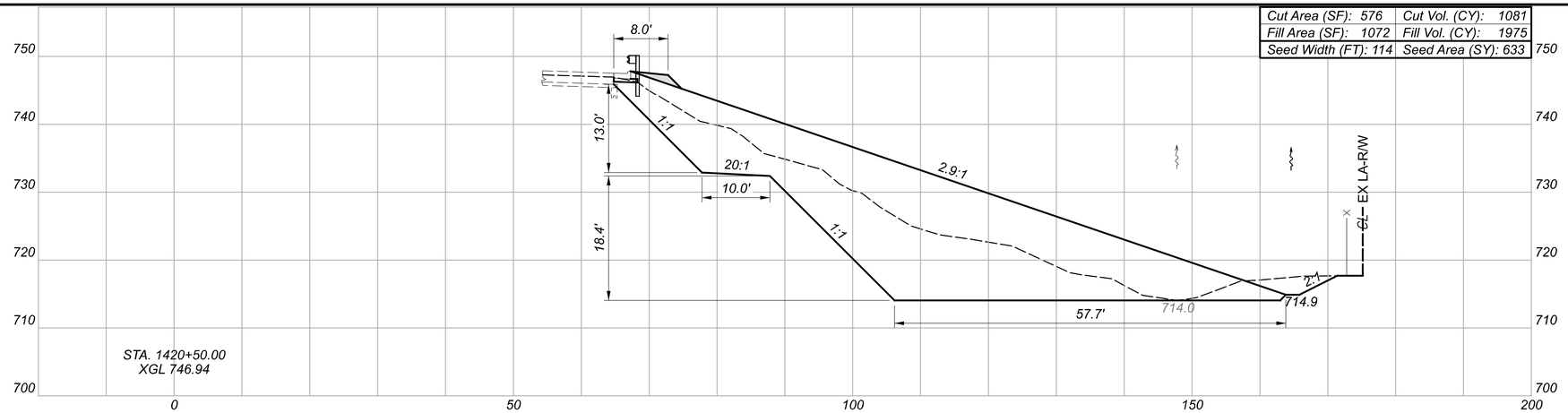
PROJECT ID
117367

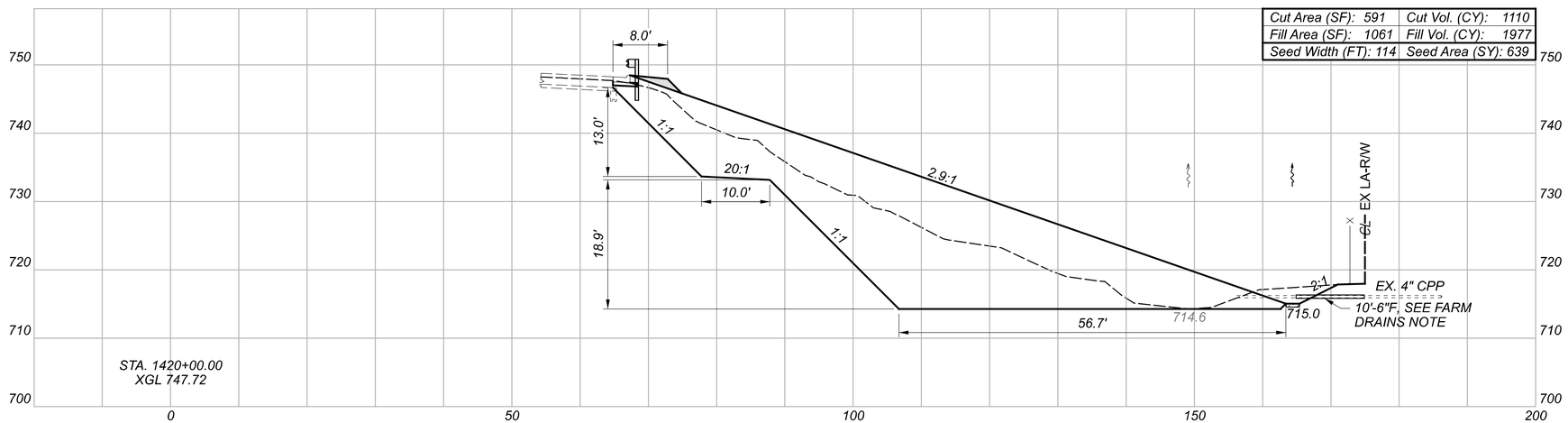
Sheet Totals		
Seeding	Cut	Fill
1006	1757	3301

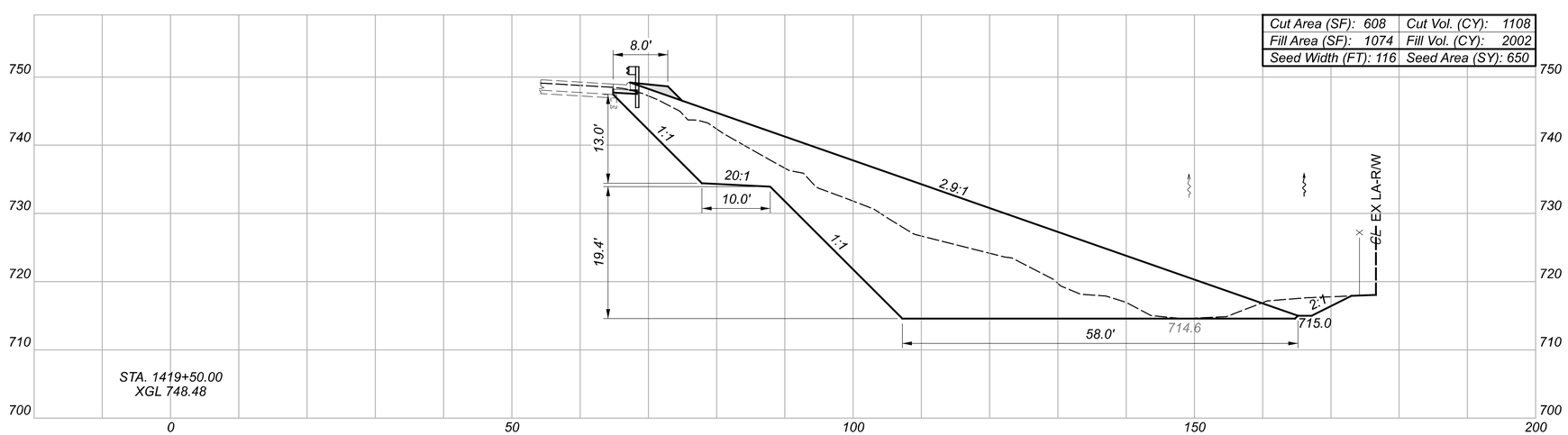
SHEET P.29 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: CLX_RW_U024 - [418+50.00-1(Sheet)] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:09:44 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\117367\400-Engineering\Roadway\Sheets\117367_XS001.dgn







CROSS SECTIONS - U.S. 24 EASTBOUND
STA. 1419+50.00 TO STA. 1420+50.00

Sheet Totals		
Seeding	Cut	Fill
1922	3299	5954

DESIGN AGENCY

DESIGNER: KCO

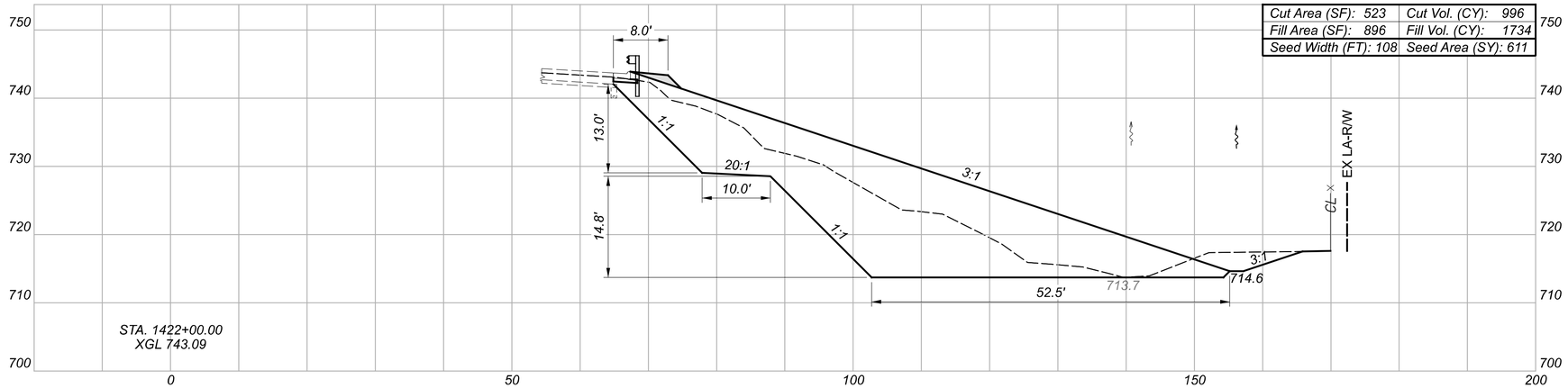
REVIEWER: MJM 01-04-23

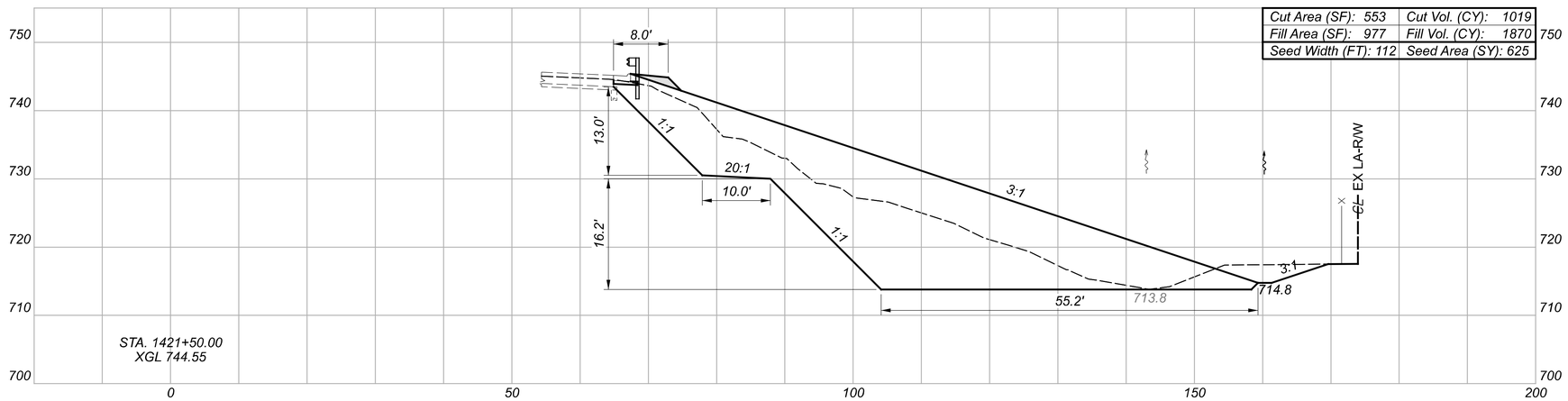
PROJECT ID: 117367

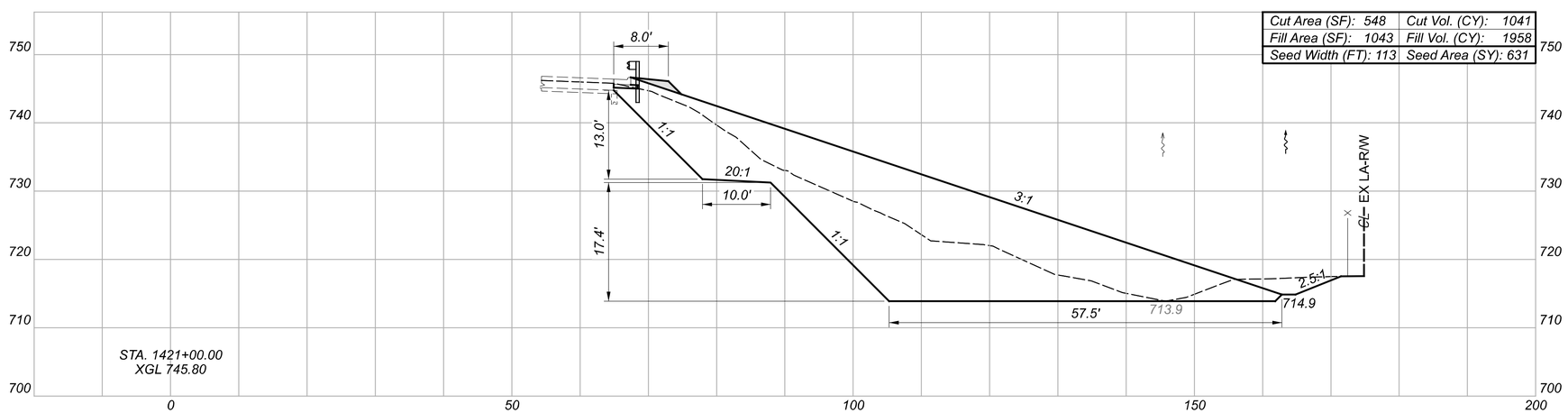
SHEET: P.30 TOTAL: 60

PAU-24/127-13.55/15.98 PART 2

MODEL: CLX_RW_U024 - [419+50.00-1(Sheet)] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:09:45 PM USER: kosterho
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\117367\400-Engineering\Roadway\Sheets\117367_XS001.dgn







CROSS SECTIONS - U.S. 24 EASTBOUND
STA. 1421+00.00 TO STA. 1422+00.00

Sheet Totals		
Seeding	Cut	Fill
1867	3056	5562

DESIGN AGENCY

DESIGNER
KCO

REVIEWER
MJM 01-04-23

PROJECT ID
117367

SHEET P.31 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

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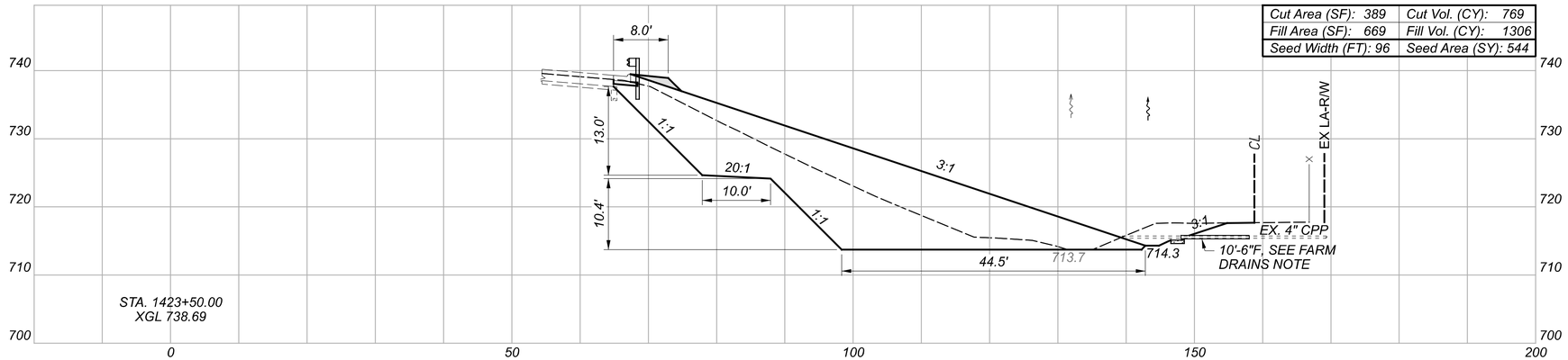

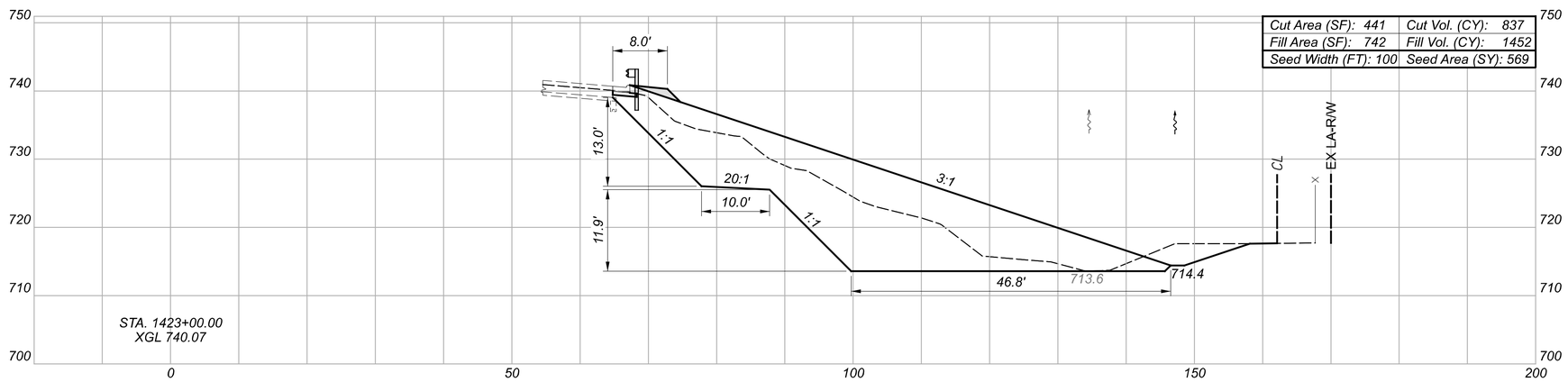

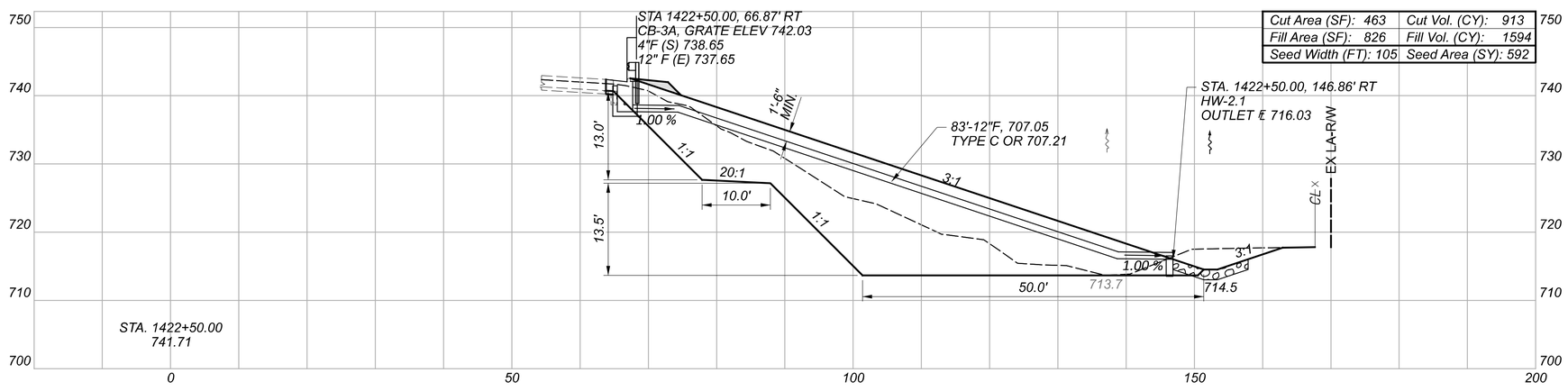

FOR INFORMATION ONLY: IN ORDER TO KEEP AT LEAST THE 1'-6" COVER, THE PIPE BENDS SHOULD BE AT LEAST 17.5°.

CROSS SECTIONS - U.S. 24 EASTBOUND
STA. 1422+50.00 TO STA. 1423+50.00

Sheet Totals		
Seeding	Cut	Fill
1705	2519	4352

DESIGN AGENCY

DESIGNER: KCO

REVIEWER: MJM 01-04-23

PROJECT ID: 117367

SHEET: P.32 TOTAL: 60

PAU-24/127-13.55/15.98 PART 2

MODEL: CLX_RW_U024 - 1422+50.00-1[Sheet] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:09:46 PM USER: kosterha
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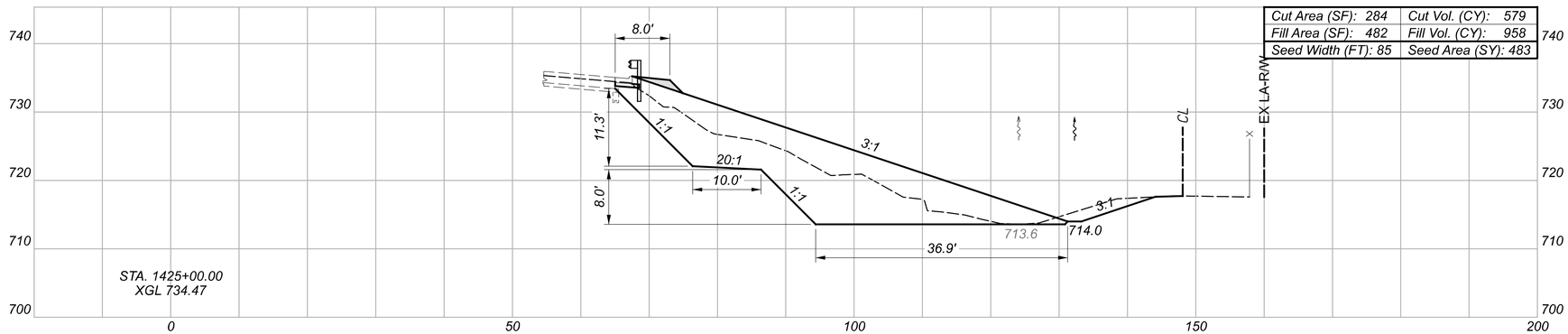

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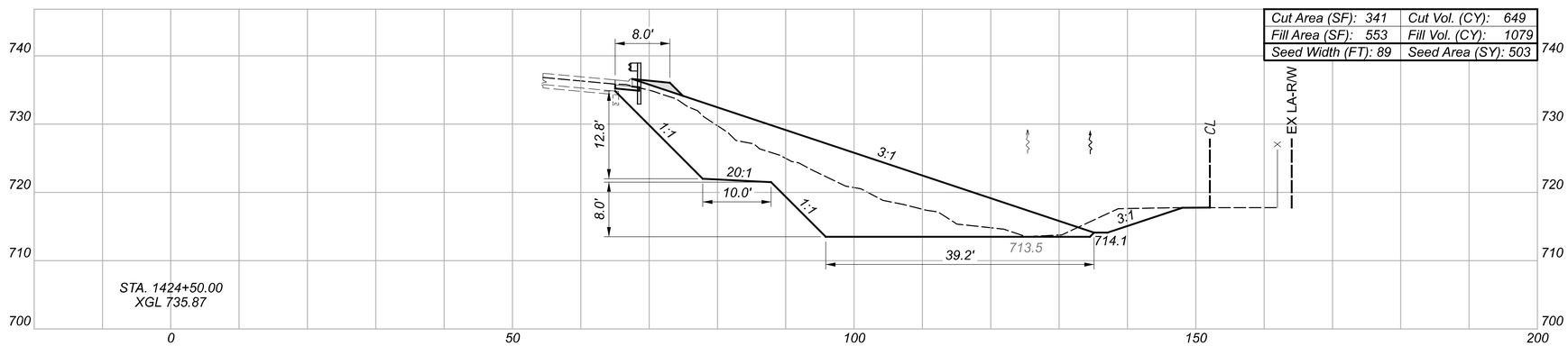

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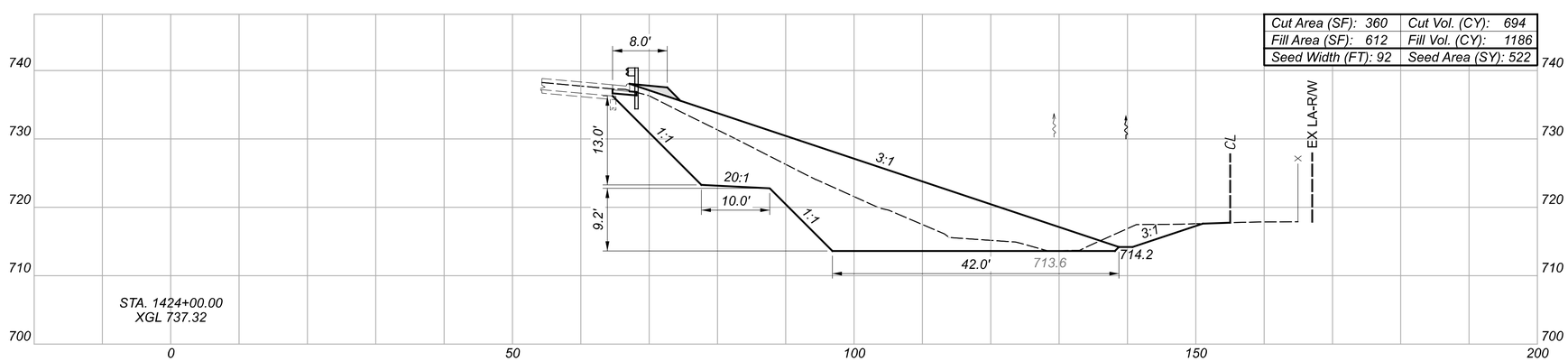
Fill Area (SF): 553	Fill Vol. (CY): 1079
Seed Width (FT): 89	Seed Area (SY): 503



Cut Area (SF): 360	Cut Vol. (CY): 694
Fill Area (SF): 612	Fill Vol. (CY): 1186
Seed Width (FT): 92	Seed Area (SY): 522

Sheet Totals		
Seeding	Cut	Fill
1508	1922	3223

CROSS SECTIONS - U.S. 24 EASTBOUND
STA. 1424+00.00 TO STA. 1425+00.00

DESIGN AGENCY

DESIGNER: KCO

REVIEWER: MJM 01-04-23

PROJECT ID: 117367

SHEET: P.33 TOTAL: 60

PAU-24/127-13.55/15.98 PART 2

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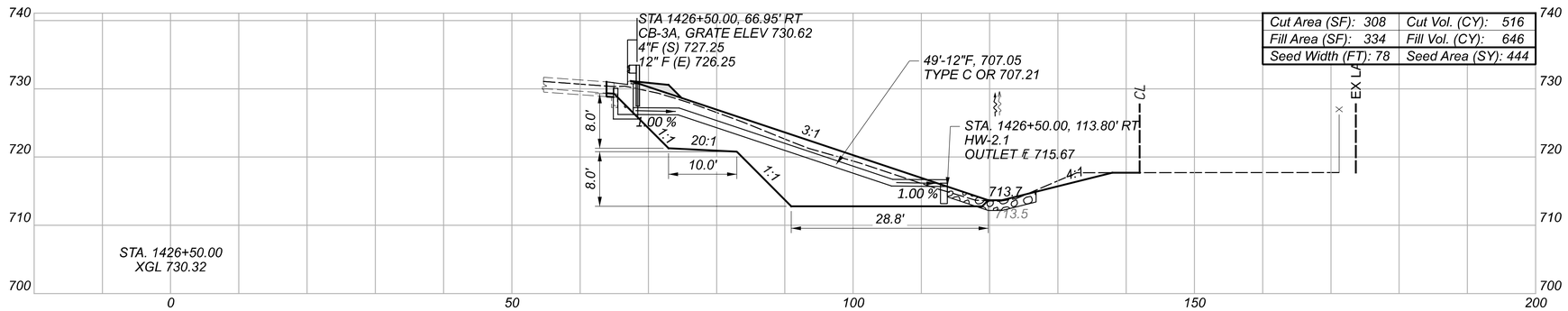
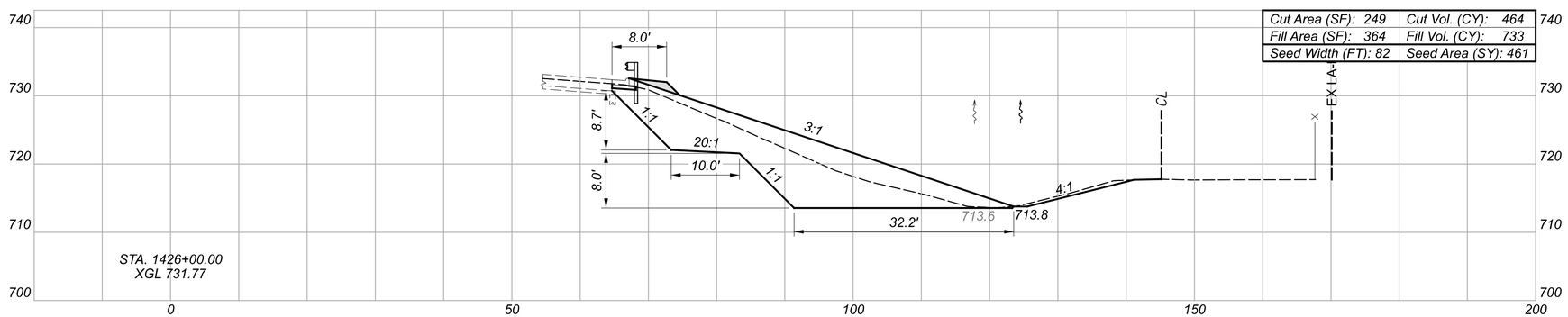
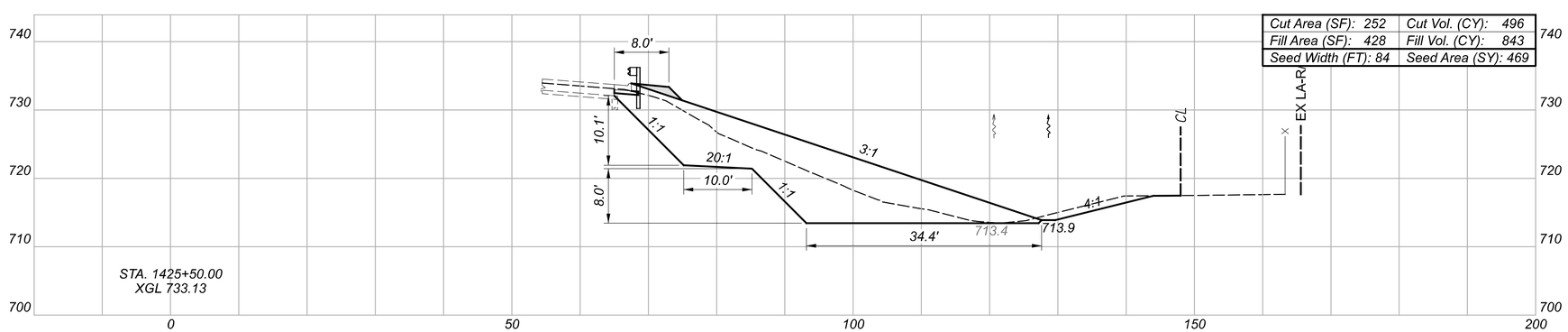


Cut Area (SF): 308	Cut Vol. (CY): 516
Fill Area (SF): 334	Fill Vol. (CY): 646
Seed Width (FT): 78	Seed Area (SY): 444

FOR INFORMATION ONLY: IN ORDER TO KEEP AT LEAST THE 1'-6" COVER, THE PIPE BENDS SHOULD BE AT LEAST 17.5°.



Cut Area (SF): 249	Cut Vol. (CY): 464
Fill Area (SF): 364	Fill Vol. (CY): 733
Seed Width (FT): 82	Seed Area (SY): 461



Cut Area (SF): 252	Cut Vol. (CY): 496
Fill Area (SF): 428	Fill Vol. (CY): 843
Seed Width (FT): 84	Seed Area (SY): 469

Sheet Totals		
Seeding	Cut	Fill
1374	1476	2222

CROSS SECTIONS - U.S. 24 EASTBOUND
STA. 1425+50.00 TO STA. 1426+50.00

DESIGN AGENCY

DESIGNER
KCO

REVIEWER
MJM 01-04-23

PROJECT ID
117367

SHEET P.34 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: CLX_RW_U024 - 1425+50.00-1[Sheet] PAPERSIZE: 17x11in) DATE: 8/10/2023 TIME: 1:09:48 PM USER: kosterha
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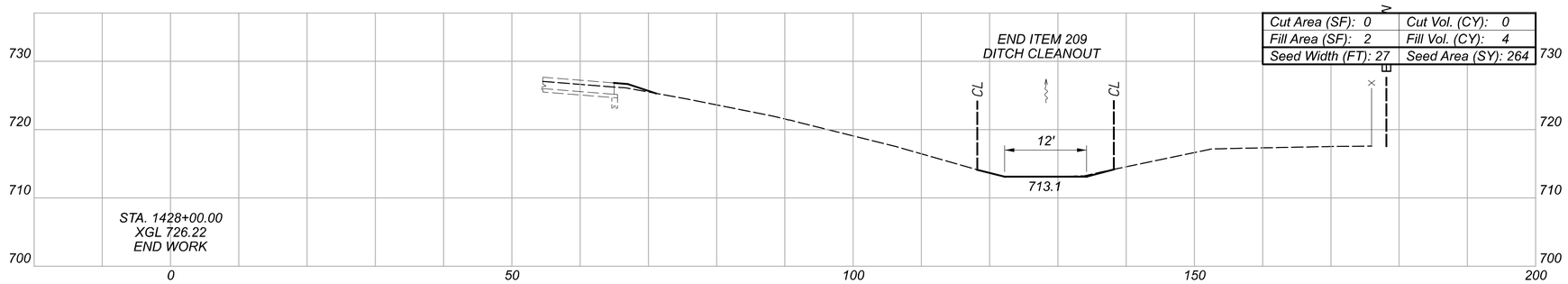

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Fill Area (SF): 2	Fill Vol. (CY): 4
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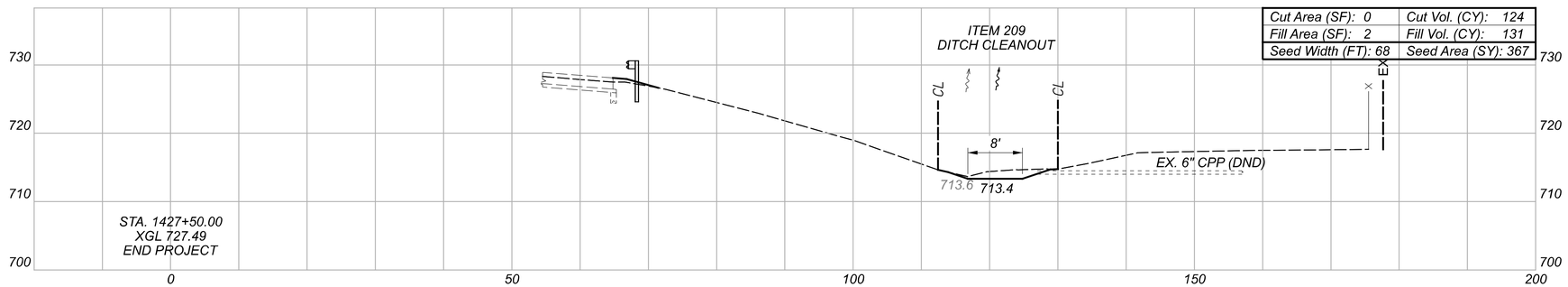

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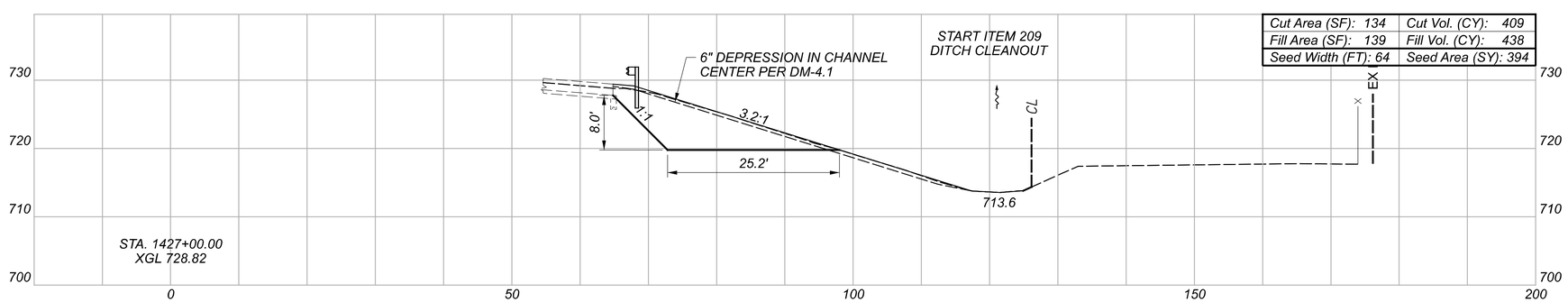
Fill Area (SF): 2	Fill Vol. (CY): 131
Seed Width (FT): 68	Seed Area (SY): 367



Cut Area (SF): 134	Cut Vol. (CY): 409
Fill Area (SF): 139	Fill Vol. (CY): 438
Seed Width (FT): 64	Seed Area (SY): 394

Sheet Totals		
Seeding	Cut	Fill
1025	533	573

CROSS SECTIONS - U.S. 24 EASTBOUND
STA. 1427+00.00 TO STA. 1428+00.00

DESIGN AGENCY

DESIGNER
KCO

REVIEWER
MJM 01-04-23

PROJECT ID
117367

SHEET P.35 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: CLX_RW_U024 - 1427+00.00-1[Sheet] PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:09:49 PM USER: kosterha
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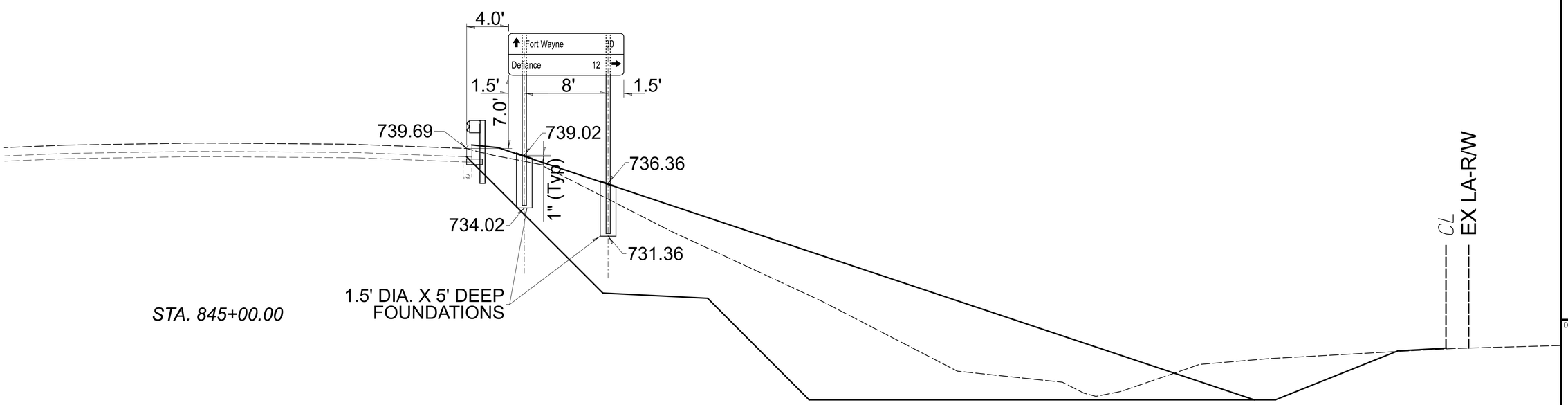
TRAFFIC CONTROL															
						630									
						SIGNS			BEAMS		GROUND MOUNTED BEAM SUPPORT FOUNDATION	REMOVAL			
												GROUND MOUNTED			
REF NO.	SHEET NO.	STATION	CODE	SIZE	LEVEL	FLAT SHEET	EXTRU SHEET		W6x9			SIGN AND REERECTION	MAJOR SIGN AND REERECTION	POST SUPPORT AND REERECTION	STRUCTURAL BEAM SUPPORT AND DISPOSAL
							GM	OH							
				INCHES		SQ FT	SQ FT	SQ FT	FT		EACH		EACH		EACH
PAU-127 NORTHBOUND															
S-1	15	845+00	D1-H16a	132x48	4				16.4	19.1	2		1		2
S-2	15	845+93	D10-H8									1		1	
S-3	15	847+85	D1-H15									1		2	
									16.4	19.1					
TOTALS CARRIED TO GEN SUMMARY									35.5		2	2	1	3	2

SIGN S-1

Sta. 845+00, (NB) Rt. U.S. 127

BEAM SUPPORTS
2 - W6x9
16.4' 19.1'



TRAFFIC CONTROL

PAU-24/127-13.55/15.98 PART 2

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DESIGN AGENCY

DESIGNER
TAB

REVIEWER
KCO 04-22-21

PROJECT ID
117367

SHEET P.36 TOTAL 60

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF REPAIRING SLIDES ALONG NORTHBOUND US 127, THE EASTBOUND ENTRANCE RAMP TO US 24 (RAMP D), AND ALONG US 24 EASTBOUND NORTHEAST OF THE US 127 INTERCHANGE. REPAIR WORK WILL CONSIST OF BENCHING THE EMBANKMENT AND RECONSTRUCTING THE SLOPE WITH CURB AND STORM WATER INLETS TO CONTROL RUNOFF.

HISTORIC RECORDS

HISTORICAL RECORDS WERE OBTAINED FROM ODOT'S TRANSPORTATION INFORMATION MAPPING SYSTEM (TIMS) FOR PAU/DEF-24-12.30/0.00 COMPLETED IN 2004 FOR THE CURRENT ROADWAY ALIGNMENT. RECORDS INDICATED THAT BOTH PROJECT AREAS RECEIVED EMBANKMENT FILL CONSTRUCTED ON TOP OF PREDOMINATELY COHESIVE SOILS CONSISTING OF SANDY SILT (A-4a), SILT AND CLAY (A-6a), SILTY CLAY (A-6b), CLAY (A-7-6), AND ELASTIC CLAY (A-7-5). BEDROCK WAS ENCOUNTERED AT PAU-24-1355 BETWEEN ELEVATION 670.0 AND 666.9 FEET IN THE VICINITY OF THE REAR ABUTMENT. EMBANKMENT INSTABILITY OCCURRED WITHIN ALL FOUR QUADRANTS OF THE APPROACH EMBANKMENT DURING CONSTRUCTION. BORINGS AND SLOPE INCLINOMETERS INSTALLATIONS WERE COMPLETED IN 2008 DETERMINING A VERY THIN WET CLAY LAYER JUST BELOW THE BASE OF THE EMBANKMENT WAS THE PRIMARY CAUSE OF THE INSTABILITY. RECONSTRUCTION OF THE EMBANKMENT WAS COMPLETED TO ADDRESS THESE ISSUES. AT THE PAU-24/127 INTERCHANGE BEDROCK WAS ENCOUNTERED BETWEEN ELEVATION 671.5 AND 667.6 FEET. REPRESENTATIVE BORING INFORMATION IS PRESENTED WITHIN THIS SOIL PROFILE WITH EXTRANEOUS INFORMATION NOT PRESENTED FOR CLARITY.

GEOLOGY

THE PROJECT IS LOCATED WITHIN THE PAULDING CLAY BASIN OF THE GLACIATED HURON-ERIE LAKE PLAIN PHYSIOGRAPHIC REGION WHICH IS CHARACTERIZED BY VERY CLAYEY SOILS AS NEARLY FLAT, EXTREMELY LOW RELIEF LACUSTRINE PLAIN WHICH CONTAIN HIGHLY MEANDERING STREAMS. THE THICK OVERBURDEN SOILS ARE UNDERLAIN BY DEVONIAN-AGE ANTRIM SHALE AND TRAVERSE GROUP SHALE AND LIMESTONE.

RECONNAISSANCE

AT PAU-24-1355 SLOPE INSTABILITY WAS FIRST NOTED IN 2017 WITH PERIODIC MONITORING. FIELD RECONNAISSANCE FOR THE CURRENT EXPLORATION WAS COMPLETED BY PERSONNEL FROM THE OFFICE OF GEOTECHNICAL ENGINEERING ON SEPTEMBER 1, 2021. SLOPE INSTABILITY WAS NOTED WITHIN THE EMBANKMENT WITH HEAD SCARPS NOTED BELOW OR AT THE GUARDRAIL POSTS. THE EMBANKMENT SLOPE HAD A HUMMOCKY APPEARANCE WITH A TOE BULGE AT THE TOE OF SLOPE. THE PROJECT CROSSES RAILROAD TRACKS WITH THE ADJACENT LAND USAGE BEING PREDOMINATELY AGRICULTURAL.

AT PAU-127-15.95 SLOPE INSTABILITY WAS FIRST NOTED IN 2019 WITH PERIODIC MONITORING. FIELD RECONNAISSANCE FOR THE CURRENT EXPLORATION WAS COMPLETED BY PERSONNEL FROM THE OFFICE OF GEOTECHNICAL ENGINEERING ON FEBRUARY 23, 2021. SLOPE INSTABILITY WAS NOTED WITHIN THE EMBANKMENT ALONG BOTH US-127 NORTHBOUND MAINLINE AND THE RAMP FROM US-127 TO US-24 EASTBOUND (EB) WITH HEAD SCARPS NOTED BELOW OR AT THE GUARDRAIL POSTS. ALONG THE RAMP FROM US-127 TO US-24EB LARGE AGGREGATE (NO. 1 AND 2 STONE) HAD BEEN PLACED AROUND THE GUARDRAIL AND ALONG THE TOP OF THE EMBANKMENT WHERE LOSS OF MATERIAL HAD OCCURRED TO MAINTAIN SUPPORT OF THE GUARDRAIL. THE EMBANKMENT SLOPE HAD A HUMMOCKY APPEARANCE WITH A TOE BULGE AT THE TOE OF SLOPE.

SUBSURFACE EXPLORATION

THE SUBSURFACE EXPLORATION AT PAU-127-15.95 CONSISTED OF ONE (1) BORING, B-001-0-21 COMPLETED ON FEBRUARY 25, 2021, UTILIZING A TRUCK MOUNTED CME 55 ROTARY DRILL RIG. THE BORING WAS ADVANCED USING 3 ¼-INCH I.D. HOLLOW STEM AUGERS TO ADVANCE THE BORINGS THROUGH THE SOIL. DISTURBED SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE STANDARD PENETRATION TEST (AASHTO T206) AT 2.5-FOOT INTERVALS FOR THE FULL DEPTH OF THE BORINGS. THE HAMMER SYSTEM UTILIZED WAS CALIBRATED ON APRIL 15, 2020, WITH AN AVERAGE DRILL ROD ENERGY RATIO (ER) OF 84%. ADDITIONALLY, FIVE (5) WILDCAT DYNAMIC CONE PENETRATION (DCP) SOUNDINGS WERE COMPETED ALONG THE EMBANKMENT SLOPE TO DETERMINE THE DEPTH OF THE UNSTABLE MATERIALS.

AT PAU-24-13.55 THE SUBSURFACE EXPLORATION WAS INITIALLY PLANNED TO ADDRESS BOTH SIDES OF THE EASTERN APPROACH EMBANKMENT, EASTBOUND AND WESTBOUND, BUT DUE TO WORSENING CONDITION ALONG WESTBOUND THE PROJECT WAS SPLIT. THESE RESULTS WILL DISCUSS ONLY THOSE PORTIONS PERTAINING TO THE EASTBOUND EMBANKMENT. THE WESTBOUND EMBANKMENT WAS PRESENTED UNDER PAU-24-13.55, PID 112034. FOUR (4) BORINGS, B-004-0-21, B-004-3-21, B-005-0-21, AND B-006-0-21 WERE COMPLETED AS PART OF THE SUBSURFACE EXPLORATION IN TWO PHASES. ALL BORINGS, EXCEPT B-004-3, WERE COMPLETED WITH CME 55 TRUCK MOUNTED ROTARY DRILL BETWEEN OCTOBER 19 AND 21, 2021. B-004-3 WAS COMPLETED USING A TRACK MOUNTED CME 850 ROTARY DRILL ON JANUARY 4 AND 5, 2022.

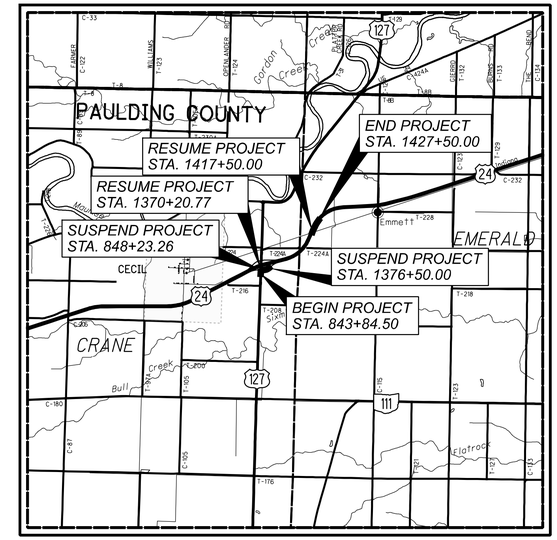
ALL BORINGS WERE ADVANCED WITHIN THE OVERBURDEN SOILS USING HOLLOW STEM AUGERS. DISTURBED SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE STANDARD PENETRATION TEST (AASHTO T206) AT 2.5-FOOT INTERVALS. CALIBRATED HAMMER SYSTEMS USED WITH AN AVERAGE DRILL ROD ENERGY RATIO (ER) OF 84% FOR THE CME 55 CALIBRATED APRIL 15, 2020, AND 90.9% (REDUCED TO THE MAXIMUM VALUE OF 90% AS PER SGE 404.3) FOR THE CME 850 CALIBRATED APRIL 19, 2021. UNDISTURBED SOIL SAMPLES WERE COLLECTED AT THE DEPTHS SHOWN ON THE LOGS AND IN THE PROFILE, IN ACCORDANCE WITH AASHTO T 207. THIRTEEN (13) WILDCAT DYNAMIC CONE PENETRATION (DCP) SOUNDINGS WERE COMPLETED ALONG THE EMBANKMENT SLOPE TO DETERMINE THE DEPTH OF THE UNSTABLE MATERIALS.

LEGEND

	DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL	
	COARSE AND FINE SAND	A-3a	1	-
	GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT	A-2-5	1	-
	STONE FRAGMENTS WITH SAND, SILT, AND CLAY	A-2-7	1	-
	SANDY SILT	A-4a	3	2
	SILT AND CLAY	A-6a	11	20
	SILTY CLAY	A-6b	6	14
	ELASTIC CLAY	A-7-5	1	-
	CLAY	A-7-6	13	20
		TOTAL	37	56
	PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL		
	SOD AND TOPSOIL = X = APPROXIMATE THICKNESS	VISUAL		
	B-ZZZ-W-YY PROJECT BORING LOCATION - PLAN VIEW. D-ZZZ-W-YY DYNAMIC CONE PENETRATION (DCP) SOUNDING LOCATION - PLAN VIEW.			
	DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.			
	DCP SOUNDING PLOTTED TO VERTICAL SCALE ONLY.			
WC	INDICATES WATER CONTENT IN PERCENT.			
N_{60}	INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.			
X/Y/D"	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X= NUMBER OF BLOWS FOR 6 INCHES (UNCORRECTED). Y/D"= NUMBER OF BLOWS (UNCORRECTED) FOR SECOND D" OF PENETRATION AT REFUSAL.			
▽	INDICATES WATER AT COMPLETION.			
LOI	INDICATES ORGANIC CONTENT BY LOSS ON IGNITION, AASHTO T267.			
QU	INDICATES UNCONFINED COMPRESSION TEST, AASHTO T208. (SOIL)			
γ_s	INDICATES UNIT WEIGHT OF SOIL.			
⊖	INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.			
SS	INDICATES A SPLIT SPOON SAMPLE.			
ST	INDICATES A SHELBY TUBE SAMPLE.			
NP	INDICATES A NON-PLASTIC SAMPLE.			

ORGANIC CONTENT BY LOSS ON IGNITION TEST

BORING ID	SAMPLE ID	SAMPLE ELEVATION	SAMPLE DEPTH	LOI (%)
B-001-0-21	SS-10	718.9' - 717.4'	23.5' - 25.0'	6.4
B-005-0-21	SS-12	717.5' - 716.0'	28.5' - 30.0'	5.8
B-006-0-21	SS-10	717.0' - 715.5'	23.5' - 25.0'	6.0



LOCATION MAP

SCALE IN MILES

0 1 2 3 4

PARTICLE SIZE DEFINITIONS

BOULDERS	12"	COBBLES	3"	GRAVEL	2.0 mm (No. 10 SIEVE)	COARSE SAND	0.42 mm (No. 40 SIEVE)	FINE SAND	0.074 mm (No. 200 SIEVE)	SILT	0.005 mm	CLAY

INDEX OF SHEETS

EXPLORATION NOTES (CONT.), SHEET 2.

LABORATORY TEST DATA, SHEETS 3 - 4.

LOCATION FROM STA.	TO STA.	PLAN	PROFILE	CROSS SECTION
US 127				
844+00	849+00	5	-	-
845+50	846+25	-	-	6
RAMP D				
1370+20.77	1373+22.68	5	-	-
1372+25		-	-	7
US 24				
1415+50	1428+20.14	8	8	-
1418+25	1419+00	-	-	9
1421+00, 1423+00 & 1425+00		-	-	10

BORING LOGS & WDCP SOUNDING LOGS, SHEETS 11 - 24.

RECON. - PPP 2/23/21, 9/01/21

DRILLING - BKW 2/25/21
PPP 3/30/21, 11/14/21
KAM 10/19/21 - 10/21/21
JMB 10/20/21, 11/19/21
CEM 1/04/22 - 1/05/22

DRAWN - AJC 12/05/22

REVIEWED - SAT 12/05/22

GEOTECHNICAL PROFILE - LANDSLIDE

DESIGN AGENCY

DESIGNER AJC

REVIEWER SAT 12-05-22

PROJECT ID 117367

SUBSET 1 TOTAL 24

SHEET P.37 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/10/2023 TIME: 1:10:10 PM USER: kosterha
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EXPLORATION FINDINGS

BORING B-001-0-21 WAS COMPLETED AT PAU-127-15.59 WITHIN THE EXITING NORTHBOUND LANE ENCOUNTERING 6 INCHES OF CONCRETE PAVEMENT UNDERLAIN BY GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT (A-2-5). BENEATH THE SURFACE MATERIALS THE BORING ENCOUNTERED EMBANKMENT MATERIALS CONSISTING OF VERY STIFF TO HARD SILTY CLAY(A-6b) IN DAMP TO MOIST CONDITION. NATURAL MATERIAL WAS ENCOUNTERED AT ELEVATION 718.9 FEET CONSISTING OF GRAVEL AND STONE FRAGMENTS WITH SAND, SILT AND CLAY (A-2-7) WHICH WAS MODERATELY ORGANIC IN MEDIUM DENSE COMPACTNESS AND DAMP CONDITION UNDERLAIN BY CLAY (A-7-6) IN VERY STIFF CONSISTENCY BECOMING HARD WITH DEPTH AND MOIST CONDITION. AT ELEVATION 706.4 FEET SILT AND CLAY (A-6a) IN VERY STIFF TO STIFF CONSISTENCY AND MOIST CONDITION WAS ENCOUNTERED IN WHICH THE BORING WAS TERMINATED.

BORINGS B-003-0-21, B-004-0-21, B-004-3-21, B-005-0-21, AND B-006-0-21 AT PAU-24-13.55 WERE ALL COMPLETED WITHIN THE PAVED SHOULDER ENCOUNTERING 13 TO 14 INCHES OF CONCRETE PAVEMENT WITH B-006-0 UNDERLAIN BY DENSE COARSE AND FINE SAND IN WET CONDITION. SUBGRADE SOILS IN THE REMAINING BORING AND EMBANKMENT MATERIALS SAMPLED CONSISTED OF PREDOMINATELY COHESIVE MATERIAL CONSISTING OF SILT AND CLAY (A-6a), SILTY CLAY (A-6b), ELASTIC CLAY (A-7-5), AND CLAY (A-7-6) RANGING IN CONSISTENCY FROM STIFF TO HARD AND DAMP TO MOIST IN CONDITION. SLICKENSIDE SURFACES WERE NOTED FROM PAST INSTABILITY. NATURAL GROUND WAS ESTIMATED BASED ON A MODERATELY ORGANIC LAYER UNDERLAIN BY PREDOMINATELY COHESIVE SOILS CONSISTING OF CLAY (A-7-6), SILT AND CLAY (A-6a) AND SANDY SILT (A-4a). B-004-3 WAS COMPLETED NEAR THE TOE OF THE EMBANKMENT ENCOUNTERING 8 INCHES OF TOPSOIL UNDERLAIN BY COHESIVE SOILS. THESE SOILS CONSISTED OF SANDY SILT (A-4a), SILT AND CLAY (A-6a), AND CLAY (A-7-6) RANGING FROM MEDIUM STIFF AT THE SURFACE TO VERY STIFF AND HARD WITH DEPTH. SOIL UNCONFINED COMPRESSIVE STRENGTH AND CONSOLIDATION TESTING WAS COMPLETED WITH REPORTS PROVIDED.

WATER WAS REPORTED AT COMPLETION IN B-004-3 AT ELEVATION 682.1 FEET WITH THE REMAINING BORINGS REPORTED AS BEING DRY.

RESULTS OF THE DCP SOUNDINGS INDICATED THAT GENERALLY THE UPPER 2.5 TO 4.0 FEET OF THE OUTER EMBANKMENT HAS LOWER CONSISTENCY AND POTENTIALLY UNSTABLE.

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, DATED JULY 2021.

AVAILABLE INFORMATION

THE SOIL, BEDROCK, AND GROUNDWATER INFORMATION COLLECTED FOR THIS SUBSURFACE EXPLORATION THAT CAN BE CONVENIENTLY DISPLAYED ON THE SOIL PROFILE SHEETS HAS BEEN PRESENTED. GEOTECHNICAL REPORTS, IF PREPARED, ARE AVAILABLE FOR REVIEW ON THE OFFICE OF CONTRACT SALES WEBSITE.

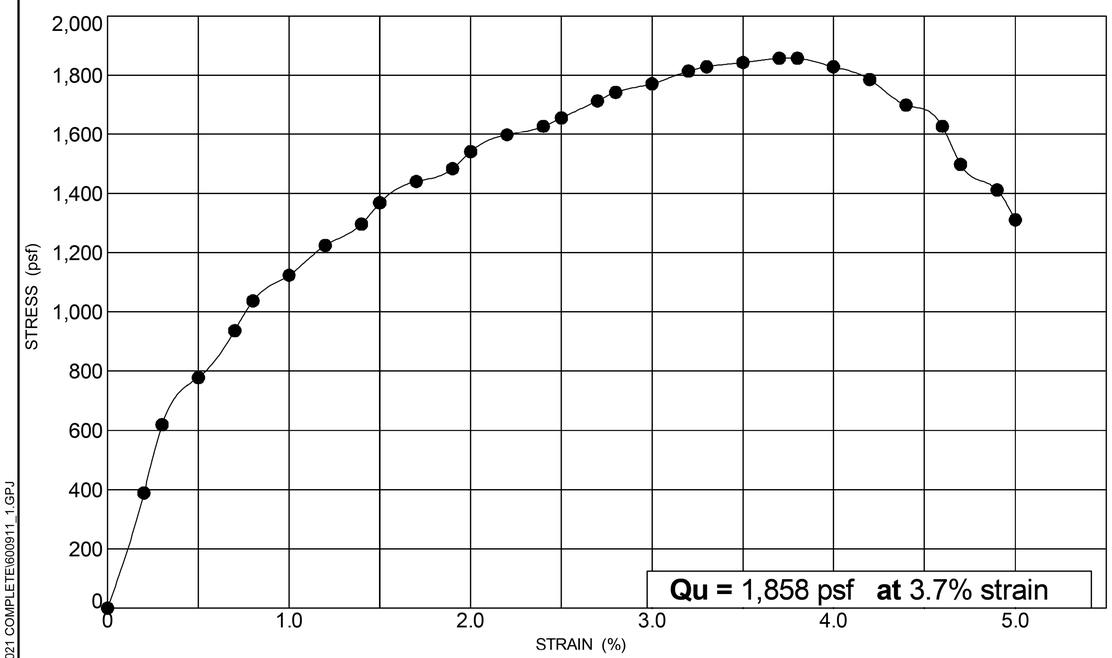
UNCONFINED COMPRESSION TEST
AASHTO T - 208

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT PAU-24/127-13.55/15.98 **PID** 111892
OGE NUMBER 600911 **PROJECT TYPE** GEOHAZARD

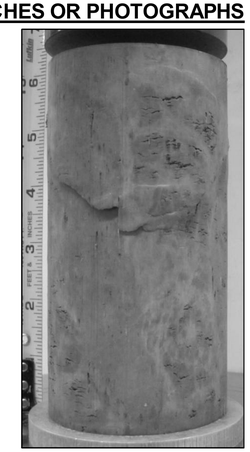
SAMPLE IDENTIFICATION

BORING ID: B-004-3-21 SAMPLE ID: ST-1
STATION: 1419+11, 146' RT. DEPTH: 2.5 - 4.5 feet



SPECIMEN FAILURE SKETCHES OR PHOTOGRAPHS

FRONT VIEW



SIDE VIEW

SPECIMEN DETAILS

HEIGHT: 5.74 inches
DIAMETER: 2.85 inches
WET UNIT WT: 123.38 pcf
DRY UNIT WT: 97.23 pcf

TESTED BY: AW 1/6/2021

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
0	1	1	11	87

ATTERBERG LIMITS			MOISTURE
LL	PL	PI	WC
58	25	33	29

ODOT CLASS: A-7-6 HP (tsf): 3.00

DESCRIPTION: Medium Stiff, Mottled Brown and Gray, **CLAY**, Little Silt, Trace Sand, Moist

GEOTECHNICAL PROFILE - LANDSLIDE
LABORATORY TEST DATA

DESIGN AGENCY

DESIGNER AJC
REVIEWER SAT 12-05-22
PROJECT ID 117367
SUBSET 3 TOTAL 24
SHEET P.39 TOTAL 60

OHDOT UNCONFINED COMPRESSION - OH DOT.GDT - 12/5/22 13:44 - X:\GINT\PROJECTS\2021 COMPLETE\600911_1.GPJ

PAU-24/127-13.55/15.98 PART 2
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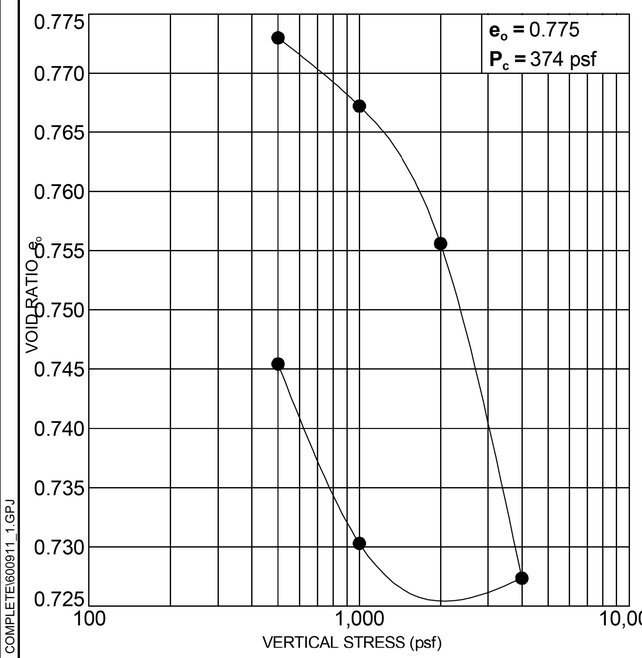
ONE-DIMENSIONAL CONSOLIDATION
AASHTO T - 216
(Page 1 of 2)

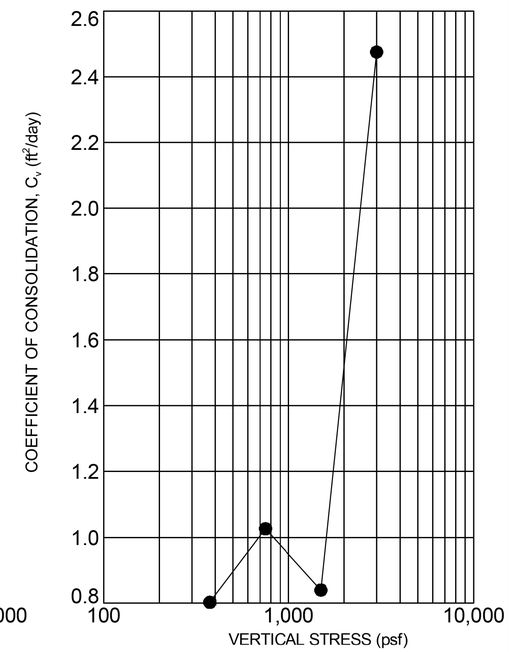
OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT PAU-24/127-13.55/15.98 **PID** 111892
OGE NUMBER 600911 **PROJECT TYPE** GEOHAZARD

SAMPLE IDENTIFICATION

BORING ID: B-004-3-21 SAMPLE ID: ST-1
STATION: 1419+11, 146' RT. DEPTH: 2.5 - 4.5 feet





SPECIMEN DETAILS

Initial Height, H_o =	0.995 in
Ring Diameter, D =	2.500 in
Initial Volume, V_o =	4.883 in^3
Initial (Total) Weight, W_{tot} =	0.339 lb
Dry Weight, W_{dry} =	0.264 lb
Initial Water Content, WC_o =	28.5 %
Wet (Total) Unit Weight, γ_{tot} =	119.86 pcf
Dry Unit Weight, γ_{dry} =	93.27 pcf
Volume of Solids, V_s =	2.751 in^3
Initial Saturation, S_o =	97.6 %
Final Water Content, WC_f =	29.0 %
Final Wet Weight, $W_{wet,f}$ =	0.340 lb
Final Dry Unit Weight, $\gamma_{dry,f}$ =	94.90 pcf
Final Saturation, S_f =	103.0 %
Final Void Ratio, e_f =	0.746
C_c = 0.068	C_r = 0.030
P_o = 2270 psf	OCR = 0.165

TEST DETAILS

METHOD OF TESTING: "Method B"
CONDITION OF TEST: "Natural Moisture Content"
SPECIFIC GRAVITY: 2.65 (Actual)
NOTES:

TESTED BY: AW 1/10/2022

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
0	1	1	11	87

ATTERBERG LIMITS			MOISTURE
LL	PL	PI	WC
58	25	33	29

ODOT CLASS: A-7-6 HP (tsf): 3.00

DESCRIPTION: Medium Stiff, Mottled Brown and Gray, **CLAY**, Little Silt, Trace Sand, Moist

OHDOT CONSOLIDATION - PAGE 1 - OH DOT.GDT - 12/5/22 13:47 - X:\GINTPROJECTS\2021 COMPLETE\600911_1.GPJ

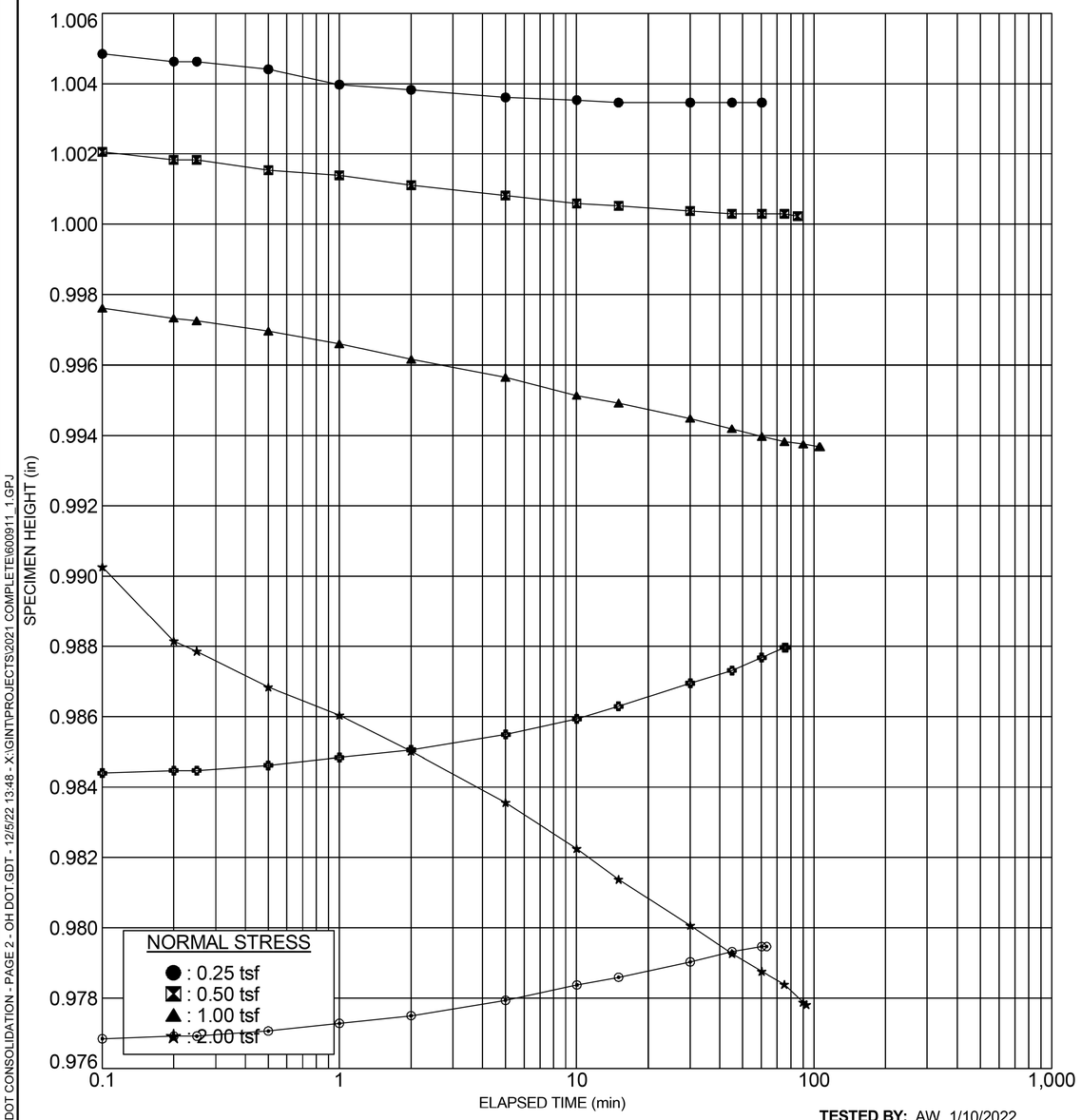
ONE-DIMENSIONAL CONSOLIDATION
AASHTO T - 216
(Page 2 of 2)

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT PAU-24/127-13.55/15.98 **PID** 111892
OGE NUMBER 600911 **PROJECT TYPE** GEOHAZARD

SAMPLE IDENTIFICATION

BORING ID: B-004-3-21 SAMPLE ID: ST-1
STATION: 1419+11, 146' RT. DEPTH: 2.5 - 4.5 feet



TESTED BY: AW 1/10/2022

OHDOT CONSOLIDATION - PAGE 2 - OH DOT.GDT - 12/5/22 13:48 - X:\GINTPROJECTS\2021 COMPLETE\600911_1.GPJ

GEOTECHNICAL PROFILE - LANDSLIDE
LABORATORY TEST DATA

DESIGN AGENCY

DESIGNER AJC
REVIEWER SAT 12-05-22
PROJECT ID 117367
SUBSET 4 TOTAL 24
SHEET P.40 TOTAL 60

PAU-24/127-13.55/15.98 PART 2
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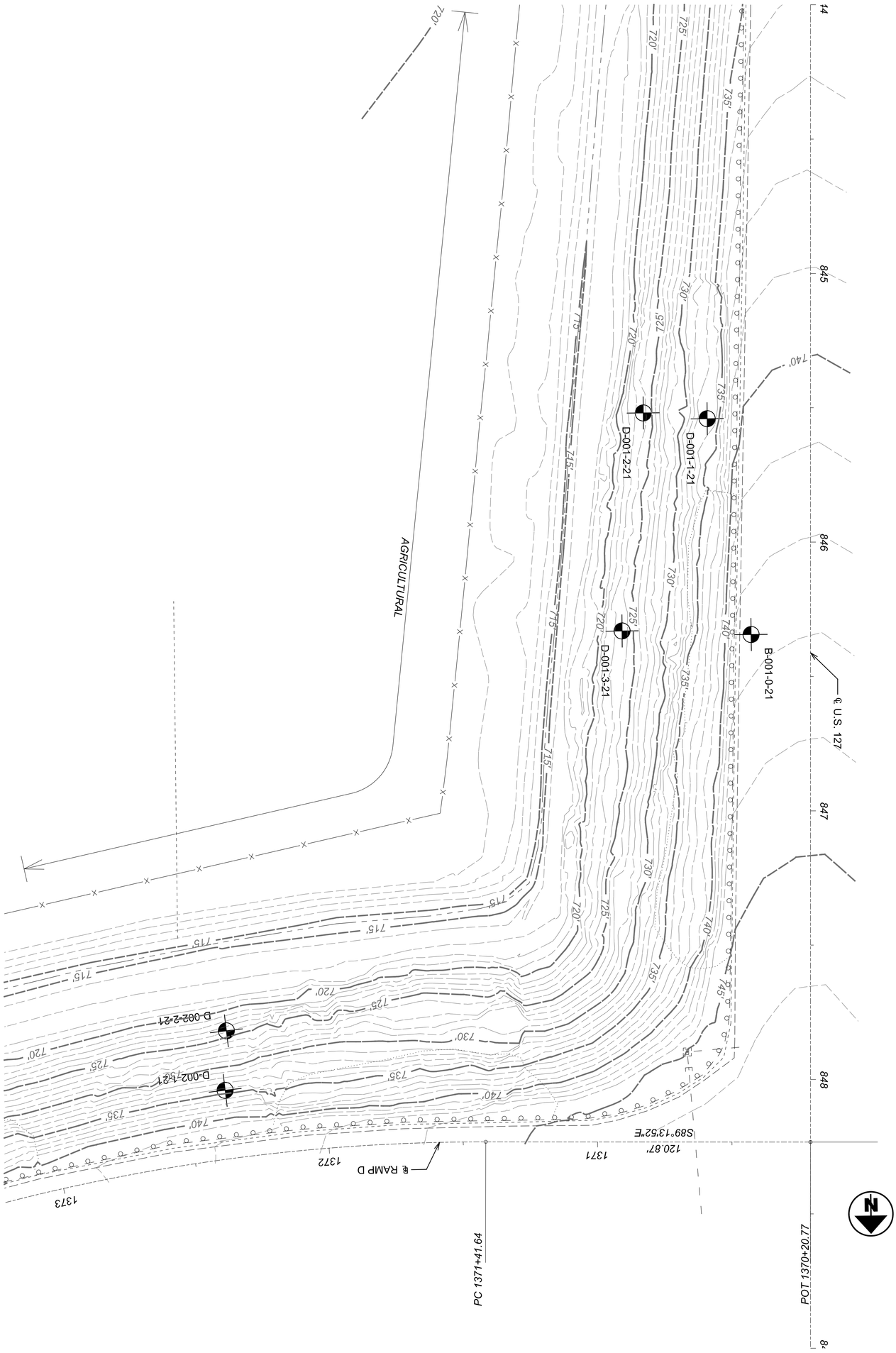
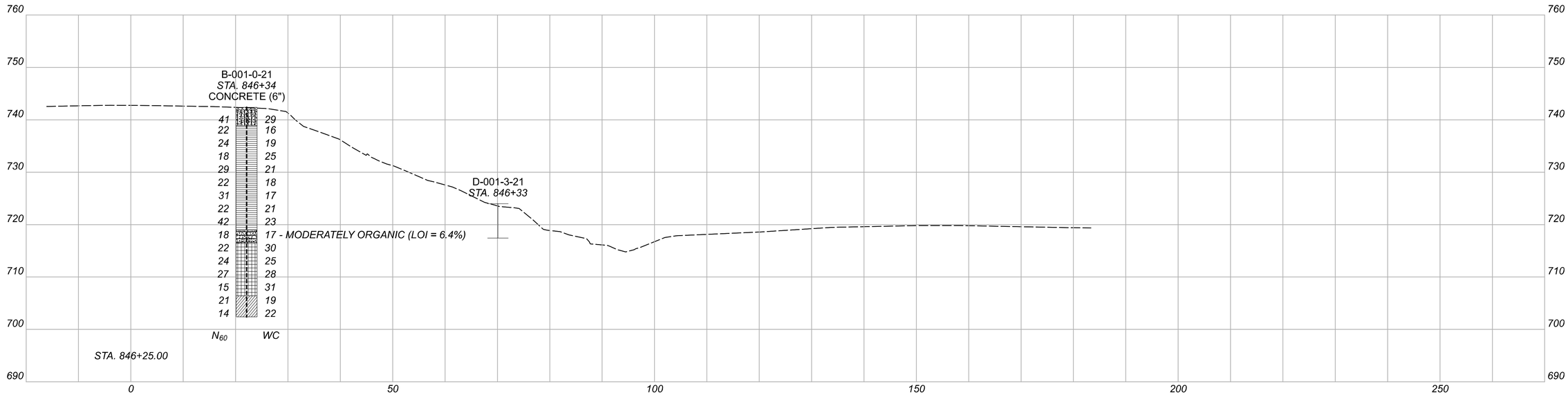


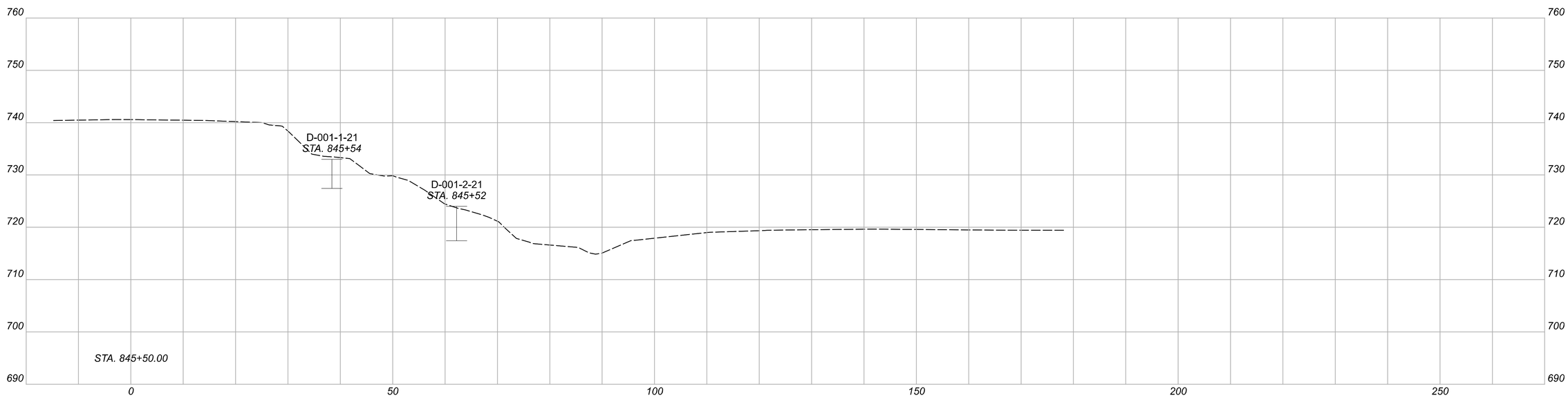
GEOTECHNICAL PROFILE - LANDSLIDE
STA. 844+00 TO STA. 849+00 US 127

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGNER	REVIEWER	PROJECT ID	SUBSET	TOTAL	SHEET	TOTAL
AJC	SAT 12-05-22	111892	5	24	P.41	60

DESIGN AGENCY





HORIZONTAL SCALE IN FEET
0 5 10 20

GEOTECHNICAL PROFILE - LANDSLIDE
CROSS SECTIONS STA. 845+50 & 846+25 US 127

DESIGN AGENCY

DESIGNER
AJC

REVIEWER
SAT 12-05-22

PROJECT ID
117367

SUBSET	TOTAL
6	24

SHEET	TOTAL
P.42	60

PAU-24/127-13.55/15.98 PART 2

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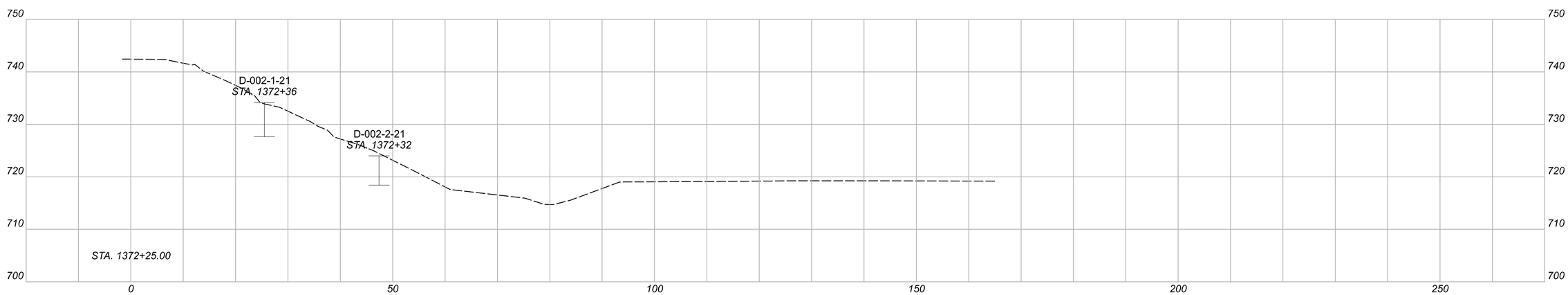

HORIZONTAL SCALE IN FEET
0 5 10 20

GEOTECHNICAL PROFILE - LANDSLIDE
CROSS SECTION STA. 1372+25 RAMP D

DESIGN AGENCY

DESIGNER
AJC

REVIEWER
SAT 12-05-22

PROJECT ID
117367

SUBSET	TOTAL
7	24

SHEET	TOTAL
P.43	60

PAU-24/127-13.55/15.98 PART 2

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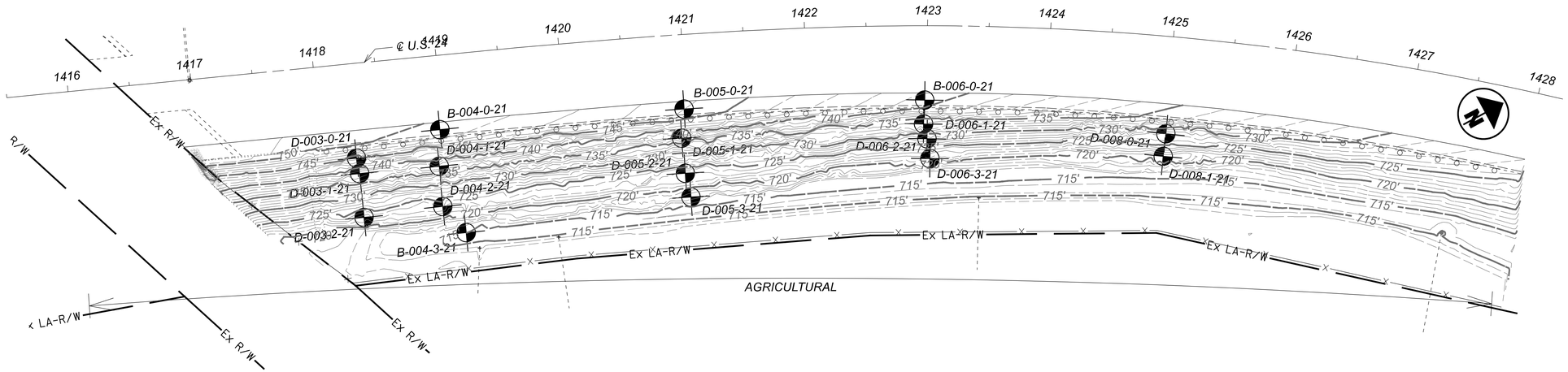

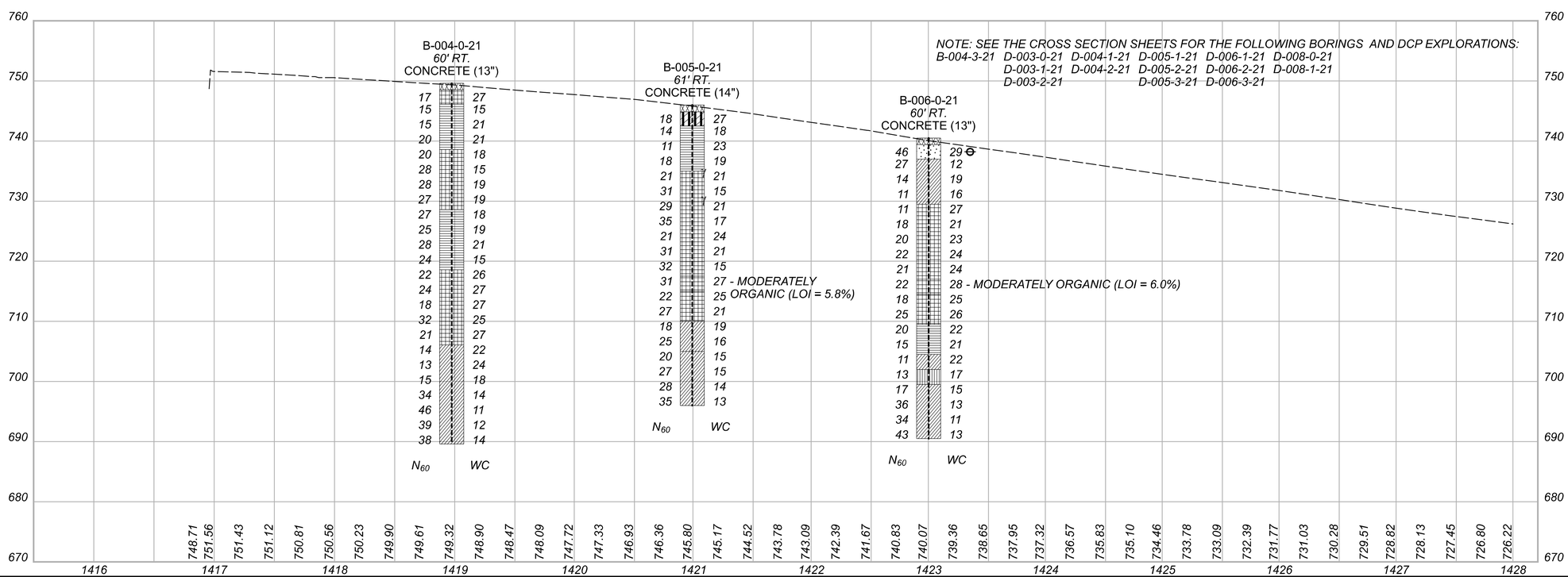

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - LANDSLIDE
STA. 1415+50 TO 1428+20.14 US 24

DESIGN AGENCY

DESIGNER	AJC
REVIEWER	SAT 12-05-22
PROJECT ID	117367
SUBSET	8
TOTAL	24
SHEET	P.44
TOTAL	60

PAU-24/127-13.55/15.98 PART 2

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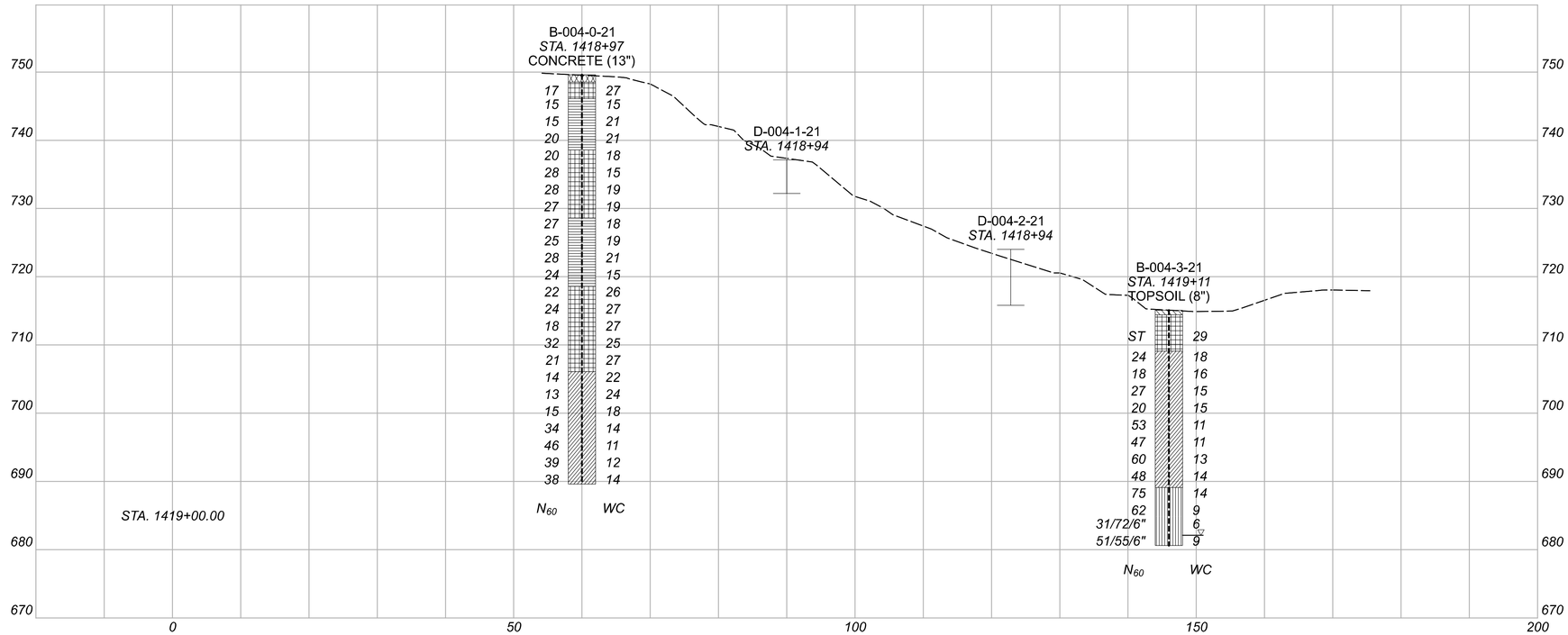

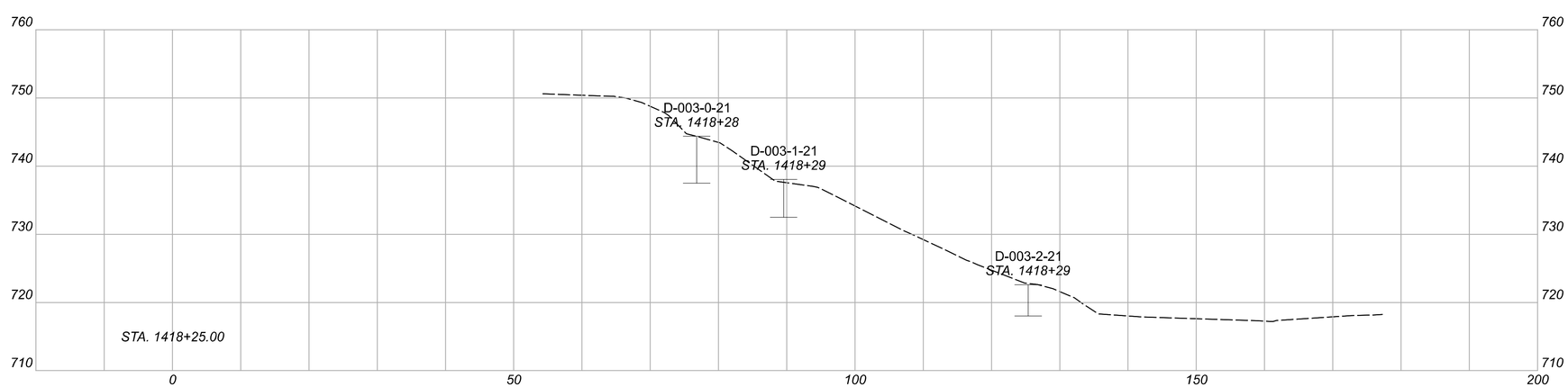

HORIZONTAL SCALE IN FEET
0 5 10 20

GEOTECHNICAL PROFILE - LANDSLIDE
CROSS SECTIONS STA. 1418+25 & 1419+00 US 24

DESIGN AGENCY

DESIGNER: AJC
REVIEWER: SAT 12-05-22
PROJECT ID: 117367
SUBSET 9 TOTAL 24
SHEET P.45 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

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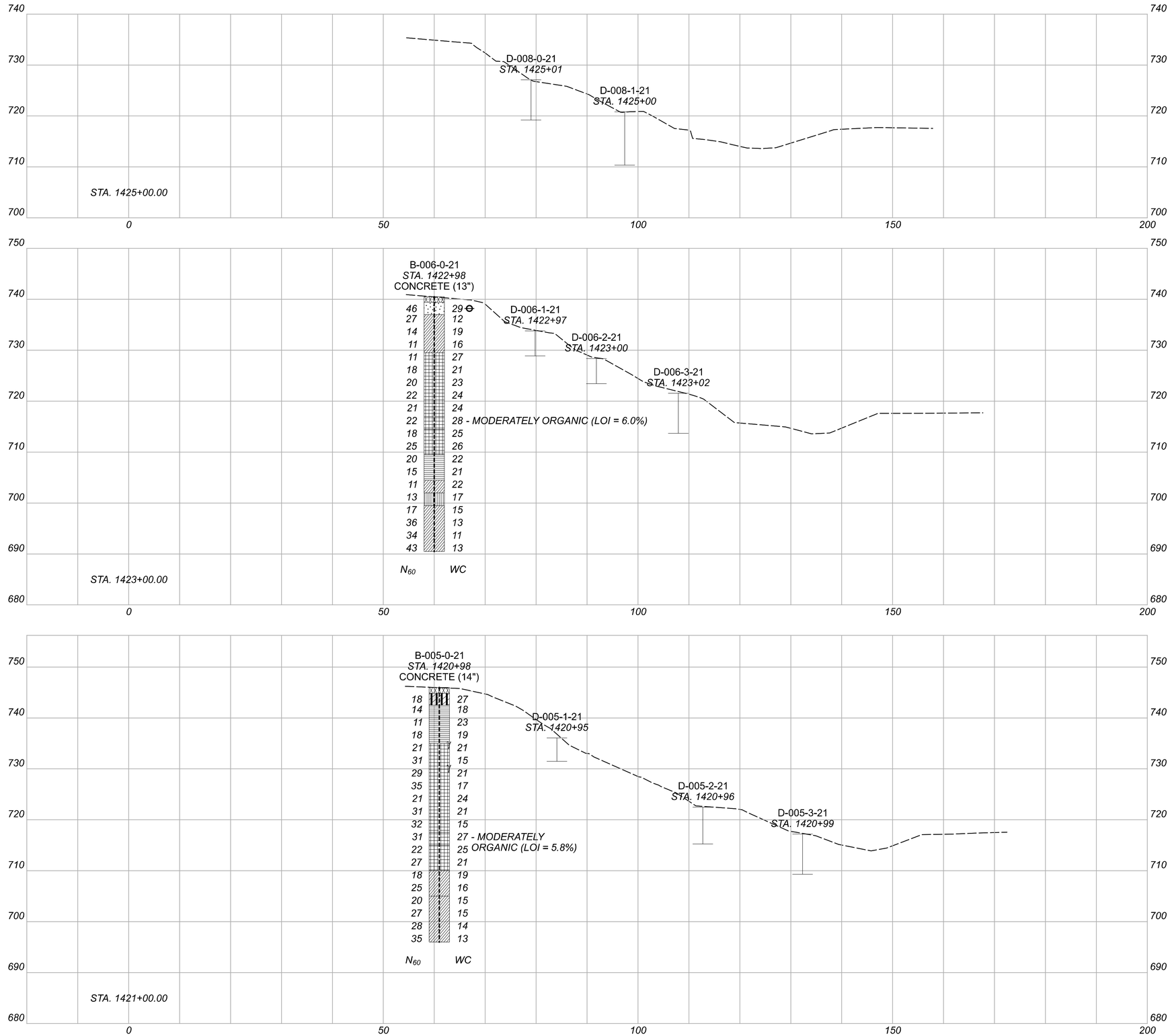

HORIZONTAL SCALE IN FEET
0 5 10 20

GEOTECHNICAL PROFILE - LANDSLIDE
CROSS SECTIONS STA. 1421+00, 1423+00 & 1425+00 US 24

DESIGN AGENCY

DESIGNER: AJC
REVIEWER: SAT 12-05-22
PROJECT ID: 117367
SUBSET: 10 TOTAL: 24
SHEET: P.46 TOTAL: 60

PAU-24/127-13.55/15.98 PART 2

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PAU-24/127-13.55/15.98 PART 2

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PROJECT: PAU-127-15.95	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 846+34, 22' RT.
TYPE: LANDSLIDE	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 127
PID: 111892 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 742.4 (ft) EOB: 40.0 ft.
START: 2/25/21 END: 2/25/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.218184, -84.582756

EXPLORATION ID B-001-0-21

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL
CONCRETE (6")	741.9																	
DENSE, GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, TRACE CLAY, CONTAINS WHITE CRYSTAL (FILL), DAMP	738.9	1 2 3	15 16 13	41	100	SS-1	2.00	20	31	23	17	9	42	37	5	29	A-2-5 (0)	
HARD, BROWN, **SILTY CLAY**, LITTLE GRAVEL AND STONE FRAGMENTS, LITTLE SAND, (FILL), DAMP		4 5	9 8 8	22	83	SS-2	4.50	-	-	-	-	-	-	-	-	16	A-6b (V)	
@6.0'; MOIST		6 7 8	6 9 8	24	78	SS-3	4.50	11	4	6	22	57	37	19	18	19	A-6b (11)	
@8.5' - 10.0'; VERY STIFF		9 10	5 6 7	18	94	SS-4	2.50	-	-	-	-	-	-	-	-	25	A-6b (V)	
		11 12	8 9 12	29	100	SS-5	4.50	-	-	-	-	-	-	-	-	21	A-6b (V)	
		13 14 15	5 8 8	22	94	SS-6	4.50	-	-	-	-	-	-	-	-	18	A-6b (V)	
@16.0' - 17.5'; DAMP		16 17 18	7 10 12	31	100	SS-7	4.50	11	3	7	24	55	34	18	16	17	A-6b (10)	
		19 20	7 7 9	22	100	SS-8	4.50	-	-	-	-	-	-	-	-	21	A-6b (V)	
	718.9	21 22 23	10 14 16	42	100	SS-9	4.50	-	-	-	-	-	-	-	-	23	A-6b (V)	
MEDIUM DENSE, GRAY, **STONE FRAGMENTS WITH SAND, SILT, AND CLAY**, MODERATELY ORGANIC (LOI = 6.4%) WITH ROOTS (POSSIBLE NATIVE GROUND), DAMP	716.4	24 25	15 7 6	18	100	SS-10	4.00	49	11	10	10	20	41	22	19	17	A-2-7 (1)	
VERY STIFF, MOTTLED BROWN AND GRAY, **CLAY**, "AND" GRAVEL, TRACE SILT, TRACE SAND, MOIST		26 27 28	6 7 9	22	100	SS-11	2.25	49	1	2	5	43	66	26	40	30	A-7-6 (11)	
		29 30	5 7 10	24	78	SS-12	4.00	-	-	-	-	-	-	-	-	25	A-7-6 (V)	
		31 32 33	8 9 10	27	100	SS-13	4.00	-	-	-	-	-	-	-	-	28	A-7-6 (V)	
@33.5'; HARD	706.4	34 35	4 5 6	15	100	SS-14	4.50	-	-	-	-	-	-	-	-	31	A-7-6 (V)	
VERY STIFF, GRAY, **SILT AND CLAY**, TRACE SAND, TRACE GRAVEL, MOIST		36 37 38	5 7 8	21	100	SS-15	2.75	9	3	7	29	52	28	17	11	19	A-6a (8)	
@38.5'; STIFF	702.4	39 40 EOB	4 4 6	14	100	SS-16	2.00	-	-	-	-	-	-	-	-	22	A-6a (V)	

NOTES: LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 4/13/21 14:47 - X:\GINT\PROJECTS\600830.GPJ

SHEET	TOTAL	SUBSET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P 47	60	11	24	117367	SAT 12-05-22	AJC	

GEOTECHNICAL PROFILE - LANDSLIDE
BORING LOG - B-001-0-21

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 12:44 PM USER: kosterha
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PROJECT: PAU-24/127-13.55/15.98	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 1418+97, 60' RT.	EXPLORATION ID B-004-0-21
TYPE: LANDSLIDE	SAMPLING FIRM / LOGGER: ODOT / MCLEISH	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 24	
PID: 111892 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 749.6 (ft) EOB: 60.0 ft.	PAGE 1 OF 1
START: 10/19/21 END: 10/20/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.226710, -84.569675	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL
CONCRETE (13")	749.6																	
STIFF, GRAY, **CLAY**, "AND" SAND, SOME SILT, TRACE GRAVEL, CONTAINS TRACE CEMENT, DAMP	748.5	1																
		2	3 7 5	17	100	SS-1	1.50	3	14	23	22	38	41	29	12	27	A-7-6 (6)	
	746.1	3																
VERY STIFF, GRAY MOTTLED WITH BROWN, **SILTY CLAY**, LITTLE SAND, TRACE GRAVEL, DAMP		4	3 5 6	15	100	SS-2	2.50	5	5	11	25	54	35	19	16	15	A-6b (10)	
		5																
@6.0'; MOIST		6	4 4 7	15	100	SS-3	3.00	-	-	-	-	-	-	-	-	21	A-6b (V)	
		7																
		8																
		9	3 5 9	20	100	SS-4	3.00	-	-	-	-	-	-	-	-	21	A-6b (V)	
		10																
	738.6	11																
VERY STIFF, GRAY MOTTLED WITH BROWN, **CLAY**, LITTLE SILT, LITTLE SAND, TRACE GRAVEL, DAMP		12	3 5 9	20	100	SS-5	3.00	7	4	7	20	62	41	20	21	18	A-7-6 (13)	
		13																
		14	5 8 12	28	100	SS-6	3.50	-	-	-	-	-	-	-	-	15	A-7-6 (V)	
		15																
@16.0'; MOTTLED BROWN AND GRAY		16																
		17	5 8 12	28	100	SS-7	3.00	-	-	-	-	-	-	-	-	19	A-7-6 (V)	
		18																
		19	4 9 10	27	100	SS-8	3.50	-	-	-	-	-	-	-	-	19	A-7-6 (V)	
		20																
	728.6	21																
VERY STIFF, MOTTLED BROWN AND GRAY, **SILTY CLAY**, TRACE SAND, TRACE GRAVEL, CONTAINS SLICKENSIDES, DAMP		22	4 9 10	27	100	SS-9	3.50	1	3	6	26	64	39	21	18	18	A-6b (11)	
		23																
		24	3 8 10	25	100	SS-10	3.50	-	-	-	-	-	-	-	-	19	A-6b (V)	
		25																
		26																
		27	3 8 12	28	100	SS-11	3.50	-	-	-	-	-	-	-	-	21	A-6b (V)	
		28																
		29	3 9 8	24	100	SS-12	3.50	-	-	-	-	-	-	-	-	15	A-6b (V)	
		30																
	718.6	31																
VERY STIFF, MOTTLED GRAY AND BROWN, **CLAY**, LITTLE SILT, TRACE GRAVEL, TRACE SAND, DAMP		32	3 6 10	22	100	SS-13	2.50	6	1	3	9	81	63	28	35	26	A-7-6 (20)	
		33																
		34	3 7 10	24	100	SS-14	3.50	-	-	-	-	-	-	-	-	27	A-7-6 (V)	
		35																
		36																
		37	3 5 8	18	100	SS-15	2.50	-	-	-	-	-	-	-	-	27	A-7-6 (V)	
		38																
@38.5' - 40.0'; HARD		39	5 9 14	32	100	SS-16	4.00	-	-	-	-	-	-	-	-	25	A-7-6 (V)	
		40																
		41																
		42	2 6 9	21	100	SS-17	2.50	-	-	-	-	-	-	-	-	27	A-7-6 (V)	
		43																
	706.1	44																
STIFF, GRAY, **SILT AND CLAY**, TRACE SAND, MOIST		45	1 4 6	14	100	SS-18	1.50	0	2	6	25	67	32	18	14	22	A-6a (10)	
		46																
		47	1 4 5	13	100	SS-19	1.50	-	-	-	-	-	-	-	-	24	A-6a (V)	
		48																
@48.5'; VERY STIFF		49	2 5 6	15	100	SS-20	2.50	-	-	-	-	-	-	-	-	18	A-6a (V)	
		50																
@51.0'; HARD, LITTLE SAND, TRACE GRAVEL, DAMP		51																
		52	4 9 15	34	100	SS-21	4.00	4	6	13	33	44	27	15	12	14	A-6a (9)	
		53																
		54	9 15 18	46	100	SS-22	4.50	-	-	-	-	-	-	-	-	11	A-6a (V)	
		55																
		56																
		57	4 12 16	39	100	SS-23	4.50	-	-	-	-	-	-	-	-	12	A-6a (V)	
		58																
		59	6 12 15	38	100	SS-24	4.50	-	-	-	-	-	-	-	-	14	A-6a (V)	
	689.6	EOB																

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 12/2/22 10:06 - X:\GINT\PROJECTS\2021 COMPLETE\600911_1.GPJ

SHEET	TOTAL	SUBSET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P 48	60	12	24	117367	SAT 12-05-22	AJC	

GEOTECHNICAL PROFILE - LANDSLIDE
BORING LOG - B-004-0-21

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:31:12 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01Active Projects\District 01\Paulding\111892\400-Engineering\Geotechnical\Sheets\111892_YL003.dgn

PROJECT: PAU-24/127-13.55/15.98	DRILLING FIRM / OPERATOR: ODOT / SPROUSE	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 1419+11, 146' RT.	EXPLORATION ID B-004-3-21
TYPE: LANDSLIDE	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 24	
PID: 111892 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 4/19/21	ELEVATION: 715.1 (ft) EOB: 34.5 ft.	PAGE 1 OF 1
START: 1/4/22 END: 1/5/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90*	LAT / LONG: 41.226652, -84.569370	

MATERIAL DESCRIPTION AND NOTES	ELEV. 715.1	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL
TOPSOIL (8")	714.4																	
MEDIUM STIFF, MOTTLED BROWN AND GRAY, **CLAY**, LITTLE SILT, TRACE SAND, MOIST																		
@2.7'; QU = 1,858 PSF @ 3.7% STRAIN; γ_d = 97.23 PCF																		
@3.25' - 3.4; CONSOLIDATION TEST		3–4			100	ST-1	3.00	0	1	1	11	87	58	25	33	29	A-7-6 (20)	
	709.1																	
VERY STIFF, BROWN, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST		6–7	3 7 9	24	100	SS-2	4.00	3	4	9	35	49	31	16	15	18	A-6a (10)	
@8.5'; GRAY		9–10	4 5 7	18	83	SS-3	2.50	-	-	-	-	-	-	-	-	16	A-6a (V)	
@11.0'; VERY STIFF, DAMP		11–12	5 7 11	27	100	SS-4	4.00	4	4	12	34	46	27	16	11	15	A-6a (8)	
@13.5'; HARD		14–15	5 5 8	20	100	SS-5	4.50	-	-	-	-	-	-	-	-	15	A-6a (V)	
@16.0'; SOME SAND		16–17	10 16 19	53	100	SS-6	4.5+	7	6	16	32	39	26	14	12	11	A-6a (8)	
		19–20	9 12 19	47	89	SS-7	4.5+	-	-	-	-	-	-	-	-	11	A-6a (V)	
		21–22	14 18 22	60	100	SS-8	4.5+	-	-	-	-	-	-	-	-	13	A-6a (V)	
		24–25	8 13 19	48	100	SS-9	4.5+	-	-	-	-	-	-	-	-	14	A-6a (V)	
	689.1																	
VERY STIFF, GRAY, **SANDY SILT**, SOME CLAY, TRACE GRAVEL, MOIST		26–27	22 24 26	75	72	SS-10	2.50	5	8	22	43	22	18	12	6	14	A-4a (6)	
@28.5'; HARD, DAMP		29–30	13 19 22	62	100	SS-11	4.5+	-	-	-	-	-	-	-	-	9	A-4a (V)	
		31–32	31 72	-	100	SS-12	4.5+	-	-	-	-	-	-	-	-	6	A-4a (V)	
		▽ 682.1																
@33.5'; LITTLE GRAVEL	680.6	34 EOB	51 55	-	100	SS-13	4.5+	14	11	24	31	20	19	12	7	9	A-4a (3)	

NOTES: LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 12/5/22 13:30 - X:\GINT\PROJECTS\2021 COMPLETE\600911_1.GPJ

SHEET	TOTAL	SUBSET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P 49	60	13	24	117367	SAT 12-05-22	AJC	

GEOTECHNICAL PROFILE - LANDSLIDE
BORING LOG - B-004-3-21

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 11:39 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01Active Projects\District 01\Paulding\111892\400-Engineering\Geotechnical\Sheets\111892_YL004.dgn

PROJECT: PAU-24/127-13.55/15.98	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 1420+98, 61' RT.	EXPLORATION ID B-005-0-21
TYPE: LANDSLIDE	SAMPLING FIRM / LOGGER: ODOT / BINKLEY	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 24	
PID: 111892 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 746.0 (ft) EOB: 50.0 ft.	PAGE 1 OF 1
START: 10/20/21 END: 10/20/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.227210, -84.569387	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL
CONCRETE (14")	746.0																	
STIFF, GRAYISH BROWN, **ELASTIC CLAY**, "AND" SAND, SOME SILT, TRACE GRAVEL, CONTAINS TRACE CEMENT, DAMP	744.8	1																
		2	5 8 5	18	83	SS-1	1.50	3	12	24	27	34	44	31	13	27	A-7-5 (7)	
VERY STIFF, MOTTLED GRAY AND BROWN, **SILTY CLAY**, LITTLE SAND, TRACE GRAVEL, DAMP	742.5	3																
		4	2 4 6	14	89	SS-2	3.00	3	4	9	26	58	37	20	17	18	A-6b (11)	
@6.0' - 8.5'; MOIST		5																
		6	2 3 5	11	100	SS-3	4.00	-	-	-	-	-	-	-	-	23	A-6b (V)	
@8.5'; HARD		7																
		8	3 5 8	18	100	SS-4	4.50	-	-	-	-	-	-	-	-	19	A-6b (V)	
HARD, MOTTLED GRAY AND BROWN, **CLAY**, LITTLE SILT, TRACE SAND, TRACE GRAVEL, DAMP @11.8'; CONTAINS SLICKENSIDES	735.0	9																
		10																
		11	4 7 8	21	100	SS-5	4.50	1	2	5	15	77	49	23	26	21	A-7-6 (16)	
		12																
		13	4 11 11	31	100	SS-6	4.50	-	-	-	-	-	-	-	-	15	A-7-6 (V)	
		14																
		15	4 10 11	29	100	SS-7	4.50	-	-	-	-	-	-	-	-	21	A-7-6 (V)	
		16																
		17	6 11 14	35	100	SS-8	4.50	-	-	-	-	-	-	-	-	17	A-7-6 (V)	
		18																
		19	5 6 9	21	100	SS-9	4.50	1	2	3	13	81	56	24	32	24	A-7-6 (19)	
		20																
@23.5'; CONTAINS SLICKENSIDES		21	5 9 13	31	100	SS-10	4.50	-	-	-	-	-	-	-	-	21	A-7-6 (V)	
		22																
		23	5 10 13	32	100	SS-11	4.50	-	-	-	-	-	-	-	-	15	A-7-6 (V)	
		24																
HARD, GRAY MOTTLED WITH BROWN, **CLAY**, LITTLE SILT, TRACE SAND, TRACE GRAVEL, MODERATELY ORGANIC (LOI = 5.8%) CONTAINS ROOTS, POSSIBLE NATIVE GROUND, MOIST	717.5	25	5 10 12	31	100	SS-12	4.50	1	1	3	15	80	61	27	34	27	A-7-6 (20)	
HARD, MOTTLED BROWN AND GRAY, **CLAY**, LITTLE SILT, TRACE SAND, DAMP	715.0	26																
		27	3 6 10	22	100	SS-13	4.50	0	3	3	12	82	61	26	35	25	A-7-6 (20)	
		28																
		29	4 8 11	27	100	SS-14	4.50	-	-	-	-	-	-	-	-	21	A-7-6 (V)	
		30																
VERY STIFF, BROWN, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, VARVED, CONTAINS RUST STAINED VERTICAL SOIL FRACTURES, MOIST	710.0	31	2 6 7	18	100	SS-15	3.50	3	4	7	43	43	29	18	11	19	A-6a (8)	
		32																
@38.5'; DAMP		33	4 7 11	25	100	SS-16	3.50	-	-	-	-	-	-	-	-	16	A-6a (V)	
		34																
VERY STIFF, GRAY, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST	705.0	35	3 6 8	20	83	SS-17	3.50	4	5	12	34	45	28	15	13	15	A-6a (9)	
		36																
@43.5'; HARD		37	3 8 11	27	100	SS-18	4.50	-	-	-	-	-	-	-	-	15	A-6a (V)	
		38																
@46.0'; DAMP		39	5 9 11	28	100	SS-19	4.50	-	-	-	-	-	-	-	-	14	A-6a (V)	
		40																
	696.0	41	5 10 15	35	100	SS-20	4.50	-	-	-	-	-	-	-	-	13	A-6a (V)	
		42																
		43																
		44																
		45																
		46																
		47																
		48																
		49																
		50																

EOB

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 12/2/22 10:07 - X:\GINTPROJECTS\2021 COMPLETE\600911_1.GPJ

SHEET	TOTAL	SUBSET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P-50	60	14	24	117367	SAT 12-05-22	AJC	

GEOTECHNICAL PROFILE - LANDSLIDE
BORING LOG - B-005-0-21

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:14:09 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01Active Projects\District 01\Paulding\111892\400-Engineering\Geotechnical\Sheets\111892_YL005.dgn

PROJECT: PAU-24/127-13.55/15.98	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 1422+98, 60' RT.	EXPLORATION ID B-006-0-21
TYPE: LANDSLIDE	SAMPLING FIRM / LOGGER: ODOT / MCLEISH	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 24	
PID: 111892 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 740.5 (ft) EOB: 50.0 ft.	PAGE 1 OF 1
START: 10/20/21 END: 10/21/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.227692, -84.569074	

MATERIAL DESCRIPTION AND NOTES	ELEV.	SPT/RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL
CONCRETE (13")	740.5																
DENSE, GRAYISH BROWN, **COARSE AND FINE SAND**, SOME SILT, LITTLE CLAY, TRACE GRAVEL, CONTAINS TRACE CEMENT, WET	739.4	9 19 14	46	89	SS-1	-	2	38	27	23	10	NP	NP	NP	29	A-3a (0)	
VERY STIFF, GRAY, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, DAMP	737.0	5 10 9	27	83	SS-2	3.50	5	6	13	33	43	27	15	12	12	A-6a (9)	
@6.0'; MOTTLED GRAY AND BROWN, MOIST		3 5 5	14	100	SS-3	3.00	-	-	-	-	-	-	-	-	19	A-6a (V)	
		3 4 4	11	100	SS-4	3.00	-	-	-	-	-	-	-	-	16	A-6a (V)	
STIFF, MOTTLED GRAY AND BROWN, **CLAY**, LITTLE SILT, TRACE SAND, MOIST	729.5	2 3 5	11	83	SS-5	2.00	0	2	3	14	81	45	22	23	27	A-7-6 (14)	
@12.2'; CONTAINS SLICKENSIDES																	
@13.5'; VERY STIFF, DAMP		3 5 8	18	100	SS-6	4.00	-	-	-	-	-	-	-	-	21	A-7-6 (V)	
		3 6 8	20	100	SS-7	3.50	-	-	-	-	-	-	-	-	23	A-7-6 (V)	
@18.5'; TRACE GRAVEL		4 7 9	22	100	SS-8	4.00	1	1	3	11	84	51	25	26	24	A-7-6 (17)	
@22.0'; CONTAINS SLICKENSIDES		3 7 8	21	100	SS-9	4.00	-	-	-	-	-	-	-	-	24	A-7-6 (V)	
HARD, GRAY MOTTLED WITH BROWN, **CLAY**, LITTLE SILT, TRACE SAND, MODERATELY ORGANIC (LOI = 6.0%), POSSIBLE NATIVE GROUND, MOIST	717.0	3 7 9	22	100	SS-10	4.50	0	1	2	13	84	65	28	37	28	A-7-6 (20)	
VERY STIFF, MOTTLED GRAY AND BROWN, **CLAY**, TRACE SILT, TRACE SAND, DAMP	714.5	2 5 8	18	100	SS-11	3.50	0	1	3	5	91	62	27	35	25	A-7-6 (20)	
@28.5'; HARD		4 7 11	25	100	SS-12	4.50	-	-	-	-	-	-	-	-	26	A-7-6 (V)	
VERY STIFF, MOTTLED GRAY AND BROWN, **SILTY CLAY**, TRACE SAND, TRACE GRAVEL, VARVED WITH VERY THIN SILT SEAMS, MOIST	709.5	4 6 8	20	100	SS-13	3.50	2	1	3	15	79	35	18	17	22	A-6b (11)	
@33.5'; CONTAINS VERTICAL RUST STAINED SOIL FRACTURES		2 4 7	15	100	SS-14	3.50	-	-	-	-	-	-	-	-	21	A-6b (V)	
STIFF, GRAY, **SILT AND CLAY**, TRACE SAND, MOIST	704.5	2 4 4	11	100	SS-15	2.00	0	2	7	32	59	27	16	11	22	A-6a (8)	
VERY STIFF, GRAY, **SANDY SILT**, "AND" CLAY, TRACE GRAVEL, MOIST	702.0	2 4 5	13	100	SS-16	2.50	3	4	9	45	39	24	16	8	17	A-4a (8)	
VERY STIFF, GRAY, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, DAMP	699.5	2 5 7	17	100	SS-17	4.00	-	-	-	-	-	-	-	-	15	A-6a (V)	
@43.5'; HARD		6 10 16	36	100	SS-18	4.50	8	6	14	30	42	27	15	12	13	A-6a (8)	
		5 12 12	34	100	SS-19	4.50	-	-	-	-	-	-	-	-	11	A-6a (V)	
	690.5 EOB	7 11 20	43	100	SS-20	4.50	-	-	-	-	-	-	-	-	13	A-6a (V)	

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 12/2/22 10:08 - X:\GINT\PROJECTS\2021 COMPLETE\600911_1.GPJ

SHEET	TOTAL	SUBSET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P-51	60	15	24	117367	SAT 12-05-22	AJC	

GEOTECHNICAL PROFILE - LANDSLIDE
BORING LOG - B-006-0-21

WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 03-30-2021
DATE COMPLETED: 03-30-2021

HOLE #: D-001-1-21
CREW: P. Painter & S. Taliaferro
PROJECT: PAU-127-15.95
LAT/LONG: 41.217963, -84.582701
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 733.4
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 1 ft	3	13.3	•••	3	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 2 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 3 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 1 m	7	31.1	••••••••	8	LOOSE	MEDIUM STIFF
-	9	34.7	•••••••••	9	LOOSE	STIFF
- 4 ft	10	38.6	••••••••••	11	MEDIUM DENSE	STIFF
-	11	42.5	•••••••••••	12	MEDIUM DENSE	STIFF
-	12	46.3	••••••••••••	13	MEDIUM DENSE	STIFF
- 5 ft	10	38.6	••••••••••	11	MEDIUM DENSE	STIFF
-	13	50.2	•••••••••••••	14	MEDIUM DENSE	STIFF
-	13	50.2	•••••••••••••	14	MEDIUM DENSE	STIFF
- 6 ft						
-						
- 2 m						
- 7 ft						
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.

WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 03-30-2021
DATE COMPLETED: 03-30-2021

HOLE #: D-001-2-21
CREW: P. Painter & S. Taliaferro
PROJECT: PAU-127-15.95
LAT/LONG: 41.217957, -84.582614
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 724.2
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	1	4.4	•	1	VERY LOOSE	VERY SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 1 ft	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 2 ft	3	13.3	•••	3	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 3 ft	2	8.9	••	2	VERY LOOSE	SOFT
- 1 m	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	15.4	••••	4	VERY LOOSE	SOFT
- 4 ft	5	19.3	•••••	5	LOOSE	MEDIUM STIFF
-	5	19.3	•••••	5	LOOSE	MEDIUM STIFF
-	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
- 5 ft	5	19.3	•••••	5	LOOSE	MEDIUM STIFF
-	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
-	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
- 6 ft	10	38.6	••••••••••	11	MEDIUM DENSE	STIFF
-	12	46.3	••••••••••••	13	MEDIUM DENSE	STIFF
- 2 m	10	38.6	••••••••••	11	MEDIUM DENSE	STIFF
- 7 ft						
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.

GEOTECHNICAL PROFILE - LANDSLIDE
WDCP SOUNDING LOGS FOR D-001-1-21 & D-001-2-21

DESIGN AGENCY

DESIGNER
AJC

REVIEWER
SAT 12-05-22

PROJECT ID
117367

SUBSET 16 | TOTAL 24

SHEET P.52 | TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:14:37 PM USER: kosterha
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WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 03-30-2021
DATE COMPLETED: 03-30-2021

HOLE #: D-001-3-21
CREW: P. Painter & S. Taliaferro
PROJECT: PAU-127-15.95
LAT/LONG: 41.218179, -84.582582
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 723.6
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	2	8.9	••	2	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
- 1 ft	1	4.4	•	1	VERY LOOSE	VERY SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 2 ft	3	13.3	•••	3	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 3 ft	3	13.3	•••	3	VERY LOOSE	SOFT
- 1 m	3	13.3	•••	3	VERY LOOSE	SOFT
-	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
- 4 ft	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
-	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
-	5	19.3	•••••	5	LOOSE	MEDIUM STIFF
- 5 ft	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
-	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
-	11	42.5	••••••••••••	12	MEDIUM DENSE	STIFF
- 6 ft	12	46.3	•••••••••••••	13	MEDIUM DENSE	STIFF
-	11	42.5	••••••••••••	12	MEDIUM DENSE	STIFF
- 2 m	12	46.3	•••••••••••••	13	MEDIUM DENSE	STIFF
- 7 ft						
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.

WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 03-30-2021
DATE COMPLETED: 03-30-2021

HOLE #: D-002-1-21
CREW: P. Painter & S. Taliaferro
PROJECT: PAU-127-15.95
LAT/LONG: 41.218643, -84.582037
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 734.2
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	2	8.9	••	2	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
- 1 ft	1	4.4	•	1	VERY LOOSE	VERY SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 2 ft	3	13.3	•••	3	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 3 ft	3	13.3	•••	3	VERY LOOSE	SOFT
- 1 m	3	13.3	•••	3	VERY LOOSE	SOFT
-	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
- 4 ft	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
-	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
-	5	19.3	•••••	5	LOOSE	MEDIUM STIFF
- 5 ft	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
-	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
-	11	42.5	••••••••••••	12	MEDIUM DENSE	STIFF
- 6 ft	12	46.3	•••••••••••••	13	MEDIUM DENSE	STIFF
-	11	42.5	••••••••••••	12	MEDIUM DENSE	STIFF
- 2 m	12	46.3	•••••••••••••	13	MEDIUM DENSE	STIFF
- 7 ft						
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.

GEOTECHNICAL PROFILE - LANDSLIDE
WDCP SOUNDING LOGS FOR D-001-3-21 & D-002-1-21

DESIGN AGENCY

DESIGNER
AJC

REVIEWER
SAT 12-05-22

PROJECT ID
117367

SUBSET 17 | TOTAL 24

SHEET P.53 | TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:15:03 PM USER: kosterha
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WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 03-30-2021
DATE COMPLETED: 03-30-2021

HOLE #: D-002-2-21
CREW: P. Painter & S. Taliaferro
PROJECT: PAU-127-15.95
LAT/LONG: 41.218582, -84.58204
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 723.6
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	2	8.9	••	2	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
- 1 ft	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
- 2 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	2	8.9	••	2	VERY LOOSE	SOFT
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 3 ft	3	13.3	•••	3	VERY LOOSE	SOFT
- 1 m	3	13.3	•••	3	VERY LOOSE	SOFT
-	4	15.4	••••	4	VERY LOOSE	SOFT
- 4 ft	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
-	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
-	7	27.0	•••••••	7	LOOSE	MEDIUM STIFF
- 5 ft	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
-	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
-	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
- 6 ft						
-						
- 2 m						
- 7 ft						
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.

WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-003-0-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.226516, -84.569717
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 744.4
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	1	4.4	•	1	VERY LOOSE	VERY SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 1 ft	3	13.3	•••	3	VERY LOOSE	SOFT
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 2 ft	3	13.3	•••	3	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 3 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 1 m	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
-	7	27.0	•••••••	7	LOOSE	MEDIUM STIFF
- 4 ft	9	34.7	••••••••••	9	LOOSE	STIFF
-	20	77.2	••••••••••••••••••••••	22	MEDIUM DENSE	VERY STIFF
-	22	84.9	••••••••••••••••••••••••	24	MEDIUM DENSE	VERY STIFF
- 5 ft	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
-	9	34.7	••••••••••	9	LOOSE	STIFF
-	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
- 6 ft	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
-	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
- 2 m	20	77.2	••••••••••••••••••••••	22	MEDIUM DENSE	VERY STIFF
- 7 ft	22	75.2	••••••••••••••••••••••	21	MEDIUM DENSE	VERY STIFF
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

GEOTECHNICAL PROFILE - LANDSLIDE
WDCP SOUNDING LOGS FOR D-002-2-21 & D-003-0-21

DESIGN AGENCY

DESIGNER: AJC
REVIEWER: SAT 12-05-22
PROJECT ID: 117367
SUBSET: 18 TOTAL: 24
SHEET: P.54 TOTAL: 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:15:29 PM USER: kosterha
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WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-003-1-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.226506, -84.569673
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 738.1
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	2	8.9	••	2	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 1 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 2 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
- 3 ft	8	35.5	••••••••••	10	LOOSE	STIFF
- 1 m	15	66.6	••••••••••••••••••	19	MEDIUM DENSE	VERY STIFF
-	13	50.2	••••••••••••••	14	MEDIUM DENSE	STIFF
- 4 ft	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
-	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
-	13	50.2	••••••••••••••	14	MEDIUM DENSE	STIFF
- 5 ft	16	61.8	•••••••••••••••••	17	MEDIUM DENSE	VERY STIFF
-	17	65.6	••••••••••••••••••	18	MEDIUM DENSE	VERY STIFF
-	18	69.5	•••••••••••••••••••	19	MEDIUM DENSE	VERY STIFF
- 6 ft						
-						
- 2 m						
- 7 ft						
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-003-2-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.226468, -84.569552
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 722.6
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	2	8.9	••	2	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
- 1 ft	2	8.9	••	2	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 2 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
- 3 ft	9	40.0	•••••••••••	11	MEDIUM DENSE	STIFF
- 1 m	14	62.2	••••••••••••••••••	17	MEDIUM DENSE	VERY STIFF
-	13	50.2	••••••••••••••	14	MEDIUM DENSE	STIFF
- 4 ft	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
-	14	54.0	••••••••••••••••	15	MEDIUM DENSE	STIFF
-	29	111.9	••••••••••••••••••••••••••••••••	25+	DENSE	HARD
- 5 ft						
-						
-						
- 6 ft						
-						
- 2 m						
- 7 ft						
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

GEOTECHNICAL PROFILE - LANDSLIDE
WDCP SOUNDING LOGS FOR D-003-1-21 & D-003-2-21

DESIGN AGENCY

DESIGNER: AJC
REVIEWER: SAT 12-05-22
PROJECT ID: 117367
SUBSET: 19 TOTAL: 24
SHEET: P.55 TOTAL: 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:15:54 PM USER: kosterha
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WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-004-1-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.22667, -84.56958
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 737.1
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	2	8.9	••	2	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 1 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
- 2 ft	6	26.6	•••••••	7	LOOSE	MEDIUM STIFF
-	7	31.1	••••••••	8	LOOSE	MEDIUM STIFF
-	10	44.4	••••••••••••	12	MEDIUM DENSE	STIFF
- 3 ft	18	79.9	••••••••••••••••••••••••	22	MEDIUM DENSE	VERY STIFF
- 1 m	16	71.0	••••••••••••••••••••	20	MEDIUM DENSE	VERY STIFF
-	14	54.0	••••••••••••••	15	MEDIUM DENSE	STIFF
- 4 ft	11	42.5	••••••••••••	12	MEDIUM DENSE	STIFF
-	11	42.5	••••••••••••	12	MEDIUM DENSE	STIFF
-	12	46.3	••••••••••••	13	MEDIUM DENSE	STIFF
- 5 ft	16	61.8	••••••••••••••••••	17	MEDIUM DENSE	VERY STIFF
-						
-						
- 6 ft						
-						
- 2 m						
- 7 ft						
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-004-2-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.226634, -84.569471
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 724.0
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	2	8.9	••	2	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
- 1 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 2 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 3 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 1 m	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
-	4	15.4	••••	4	VERY LOOSE	SOFT
- 4 ft	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
-	7	27.0	•••••••	7	LOOSE	MEDIUM STIFF
-	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
- 5 ft	9	34.7	•••••••••	9	LOOSE	STIFF
-	7	27.0	•••••••	7	LOOSE	MEDIUM STIFF
-	11	42.5	••••••••••••	12	MEDIUM DENSE	STIFF
- 6 ft	12	46.3	••••••••••••	13	MEDIUM DENSE	STIFF
-	11	42.5	••••••••••••	12	MEDIUM DENSE	STIFF
- 2 m	9	34.7	•••••••••	9	LOOSE	STIFF
- 7 ft	17	58.1	••••••••••••••••	16	MEDIUM DENSE	VERY STIFF
-	17	58.1	••••••••••••••••	16	MEDIUM DENSE	VERY STIFF
-	16	54.7	•••••••••••••••	15	MEDIUM DENSE	STIFF
- 8 ft	15	51.3	••••••••••••••	14	MEDIUM DENSE	STIFF
-	14	47.9	••••••••••••	13	MEDIUM DENSE	STIFF
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

GEOTECHNICAL PROFILE - LANDSLIDE
WDCP SOUNDING LOGS FOR D-004-1-21 & D-004-2-21

DESIGN AGENCY

DESIGNER AJC
REVIEWER SAT 12-05-22
PROJECT ID 117367
SUBSET 20 TOTAL 24
SHEET P.56 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:16:20 PM USER: kosterha
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WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-14-2021
DATE COMPLETED: 11-14-2021

HOLE #: D-005-1-21
CREW: Painter, Ross, & Benning
PROJECT: PAU-24-13.55
LAT/LONG: 41.227175, -84.569314
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 736.1
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	2	8.9	••	2	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
- 1 ft	2	8.9	••	2	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
- 2 ft	3	13.3	•••	3	VERY LOOSE	SOFT
-	36	159.8	••	25+	DENSE	HARD
-	9	40.0	••••••••••••	11	MEDIUM DENSE	STIFF
- 3 ft	7	31.1	••••••••	8	LOOSE	MEDIUM STIFF
- 1 m	10	44.4	••••••••••••	12	MEDIUM DENSE	STIFF
-	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
- 4 ft	9	34.7	•••••••••	9	LOOSE	STIFF
-	22	84.9	••••••••••••••••••••••••	24	MEDIUM DENSE	VERY STIFF
-	25	96.5	••••••••••••••••••••••••••••	25+	MEDIUM DENSE	VERY STIFF
- 5 ft						
-						
-						
- 6 ft						
-						
- 2 m						
- 7 ft						
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-005-2-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.227145, -84.569218
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 722.5
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
- 1 ft	3	13.3	•••	3	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 2 ft	3	13.3	•••	3	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 3 ft	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
- 1 m	7	31.1	•••••••••	8	LOOSE	MEDIUM STIFF
-	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
- 4 ft	4	15.4	••••	4	VERY LOOSE	SOFT
-	7	27.0	•••••••	7	LOOSE	MEDIUM STIFF
-	12	46.3	••••••••••••	13	MEDIUM DENSE	STIFF
- 5 ft	15	57.9	••••••••••••••••	16	MEDIUM DENSE	VERY STIFF
-	14	54.0	••••••••••••••	15	MEDIUM DENSE	STIFF
-	13	50.2	••••••••••••••	14	MEDIUM DENSE	STIFF
- 6 ft	9	34.7	•••••••••	9	LOOSE	STIFF
-	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
- 2 m	14	54.0	••••••••••••••••	15	MEDIUM DENSE	STIFF
- 7 ft	15	51.3	••••••••••••••	14	MEDIUM DENSE	STIFF
-	29	99.2	••••••••••••••••••••••••••••••	25+	MEDIUM DENSE	VERY STIFF
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

GEOTECHNICAL PROFILE - LANDSLIDE
WDCP SOUNDING LOGS FOR D-005-1-21 & D-005-2-21

DESIGN AGENCY

DESIGNER AJC
REVIEWER SAT 12-05-22
PROJECT ID 117367
SUBSET 21 TOTAL 24
SHEET P.57 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:16:45 PM USER: kosterha
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WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-005-3-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.227131, -84.569148
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 717.2
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 1 ft	3	13.3	•••	3	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 2 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	6	26.6	•••••••	7	LOOSE	MEDIUM STIFF
- 3 ft	8	35.5	••••••••••	10	LOOSE	STIFF
- 1 m	9	40.0	•••••••••••	11	MEDIUM DENSE	STIFF
-	10	38.6	•••••••••••	11	MEDIUM DENSE	STIFF
- 4 ft	10	38.6	•••••••••••	11	MEDIUM DENSE	STIFF
-	10	38.6	•••••••••••	11	MEDIUM DENSE	STIFF
-	10	38.6	•••••••••••	11	MEDIUM DENSE	STIFF
- 5 ft	12	46.3	••••••••••••••	13	MEDIUM DENSE	STIFF
-	12	46.3	••••••••••••••	13	MEDIUM DENSE	STIFF
-	5	19.3	•••••	5	LOOSE	MEDIUM STIFF
- 6 ft	4	15.4	••••	4	VERY LOOSE	SOFT
-	4	15.4	••••	4	VERY LOOSE	SOFT
- 2 m	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
- 7 ft	17	58.1	••••••••••••••••	16	MEDIUM DENSE	VERY STIFF
-	18	61.6	•••••••••••••••••	17	MEDIUM DENSE	VERY STIFF
-	17	58.1	••••••••••••••••	16	MEDIUM DENSE	VERY STIFF
- 8 ft	19	65.0	•••••••••••••••••••	18	MEDIUM DENSE	VERY STIFF
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-006-1-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.227664, -84.569013
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 733.8
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	2	8.9	••	2	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 1 ft	2	8.9	••	2	VERY LOOSE	SOFT
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
- 2 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
-	6	26.6	•••••••	7	LOOSE	MEDIUM STIFF
- 3 ft	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
- 1 m	14	62.2	••••••••••••••••••	17	MEDIUM DENSE	VERY STIFF
-	13	50.2	••••••••••••••	14	MEDIUM DENSE	STIFF
- 4 ft	10	38.6	•••••••••••	11	MEDIUM DENSE	STIFF
-	18	69.5	••••••••••••••••••••	19	MEDIUM DENSE	VERY STIFF
-	12	46.3	••••••••••••	13	MEDIUM DENSE	STIFF
- 5 ft	25	96.5	••••••••••••••••••••••••••••	25+	MEDIUM DENSE	VERY STIFF
-						
-						
- 6 ft						
-						
- 2 m						
- 7 ft						
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

GEOTECHNICAL PROFILE - LANDSLIDE
WDCP SOUNDING LOGS FOR D-005-3-21 & D-006-1-21

DESIGN AGENCY

DESIGNER AJC
REVIEWER SAT 12-05-22
PROJECT ID 117367
SUBSET 22 TOTAL 24
SHEET P.58 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:17:12 PM USER: kosterha
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WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-006-2-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.227656, -84.56897
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 728.4
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	2	8.9	••	2	VERY LOOSE	SOFT
-	2	8.9	••	2	VERY LOOSE	SOFT
- 1 ft	2	8.9	••	2	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
- 2 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
-	6	26.6	•••••••	7	LOOSE	MEDIUM STIFF
- 3 ft	7	31.1	••••••••	8	LOOSE	MEDIUM STIFF
- 1 m	8	35.5	•••••••••	10	LOOSE	STIFF
-	12	46.3	••••••••••••••	13	MEDIUM DENSE	STIFF
- 4 ft	14	54.0	••••••••••••••••	15	MEDIUM DENSE	STIFF
-	12	46.3	••••••••••••••	13	MEDIUM DENSE	STIFF
-	12	46.3	••••••••••••••	13	MEDIUM DENSE	STIFF
- 5 ft	12	46.3	••••••••••••••	13	MEDIUM DENSE	STIFF
-						
-						
- 6 ft						
-						
- 2 m						
- 7 ft						
-						
-						
- 8 ft						
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-006-3-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.22764, -84.568914
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 721.6
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	3	13.3	•••	3	VERY LOOSE	SOFT
- 1 ft	3	13.3	•••	3	VERY LOOSE	SOFT
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 2 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	6	26.6	•••••••	7	LOOSE	MEDIUM STIFF
- 3 ft	8	35.5	••••••••••	10	LOOSE	STIFF
- 1 m	9	40.0	•••••••••••	11	MEDIUM DENSE	STIFF
-	10	38.6	•••••••••••	11	MEDIUM DENSE	STIFF
- 4 ft	10	38.6	•••••••••••	11	MEDIUM DENSE	STIFF
-	10	38.6	•••••••••••	11	MEDIUM DENSE	STIFF
-	10	38.6	•••••••••••	11	MEDIUM DENSE	STIFF
- 5 ft	12	46.3	••••••••••••••	13	MEDIUM DENSE	STIFF
-	12	46.3	••••••••••••••	13	MEDIUM DENSE	STIFF
-	5	19.3	•••••	5	LOOSE	MEDIUM STIFF
- 6 ft	4	15.4	••••	4	VERY LOOSE	SOFT
-	4	15.4	••••	4	VERY LOOSE	SOFT
- 2 m	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
- 7 ft	17	58.1	••••••••••••••••	16	MEDIUM DENSE	VERY STIFF
-	18	61.6	•••••••••••••••••	17	MEDIUM DENSE	VERY STIFF
-	17	58.1	••••••••••••••••	16	MEDIUM DENSE	VERY STIFF
- 8 ft	19	65.0	•••••••••••••••••••	18	MEDIUM DENSE	VERY STIFF
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

GEOTECHNICAL PROFILE - LANDSLIDE
WDCP SOUNDING LOGS FOR D-006-2-21 & D-006-3-21

DESIGN AGENCY

DESIGNER AJC
REVIEWER SAT 12-05-22
PROJECT ID 117367
SUBSET 23 TOTAL 24
SHEET P.59 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:17:37 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\111892\400-Engineering\Geotechnical\Sheets\111892_YL013.dgn

WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-008-0-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.228129, -84.568649
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 727.1
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	3	13.3	•••	3	VERY LOOSE	SOFT
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 1 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
-	6	26.6	•••••••	7	LOOSE	MEDIUM STIFF
- 2 ft	9	40.0	••••••••••••	11	MEDIUM DENSE	STIFF
-	8	35.5	••••••••••	10	LOOSE	STIFF
-	10	44.4	••••••••••••	12	MEDIUM DENSE	STIFF
- 3 ft	13	57.7	••••••••••••••••	16	MEDIUM DENSE	VERY STIFF
- 1 m	11	48.8	•••••••••••••••	13	MEDIUM DENSE	STIFF
-	13	50.2	••••••••••••••••	14	MEDIUM DENSE	STIFF
- 4 ft	12	46.3	••••••••••••••	13	MEDIUM DENSE	STIFF
-	12	46.3	••••••••••••••	13	MEDIUM DENSE	STIFF
-	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
- 5 ft	11	42.5	••••••••••••	12	MEDIUM DENSE	STIFF
-	9	34.7	••••••••••	9	LOOSE	STIFF
-	10	38.6	••••••••••••	11	MEDIUM DENSE	STIFF
- 6 ft	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
-	9	34.7	••••••••••	9	LOOSE	STIFF
- 2 m	9	34.7	••••••••••	9	LOOSE	STIFF
- 7 ft	11	37.6	••••••••••	10	LOOSE	STIFF
-	16	54.7	••••••••••••••••	15	MEDIUM DENSE	STIFF
-	18	61.6	••••••••••••••••••	17	MEDIUM DENSE	VERY STIFF
- 8 ft	14	47.9	••••••••••••••	13	MEDIUM DENSE	STIFF
-						
-						
- 9 ft						
-						
-						
- 3 m 10 ft						
-						
-						
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation
Office of Geotechnical Engineering
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 111892
DATE STARTED: 11-19-2021
DATE COMPLETED: 11-19-2021

HOLE #: D-008-1-21
CREW: Binkley, Painter, Ross, & Merklin
PROJECT: PAU-24-13.55
LAT/LONG: 41.2281, -84.568594
LOCATION: Paulding County Ohio

SURFACE ELEVATION: 720.8
WATER ON COMPLETION: None observed.
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY NON-COHESIVE	TESTED CONSISTENCY COHESIVE
-	2	8.9	••	2	VERY LOOSE	SOFT
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
- 1 ft	6	26.6	•••••••	7	LOOSE	MEDIUM STIFF
-	6	26.6	•••••••	7	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
- 2 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
-	5	22.2	••••••	6	LOOSE	MEDIUM STIFF
- 3 ft	4	17.8	•••••	5	LOOSE	MEDIUM STIFF
- 1 m	3	13.3	•••	3	VERY LOOSE	SOFT
-	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
- 4 ft	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
-	7	27.0	•••••••	7	LOOSE	MEDIUM STIFF
-	7	27.0	•••••••	7	LOOSE	MEDIUM STIFF
- 5 ft	7	27.0	•••••••	7	LOOSE	MEDIUM STIFF
-	6	23.2	••••••	6	LOOSE	MEDIUM STIFF
-	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
- 6 ft	7	27.0	•••••••	7	LOOSE	MEDIUM STIFF
-	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
- 2 m	8	30.9	••••••••	8	LOOSE	MEDIUM STIFF
- 7 ft	11	37.6	••••••••••	10	LOOSE	STIFF
-	12	41.0	•••••••••••	11	MEDIUM DENSE	STIFF
-	9	30.8	••••••••	8	LOOSE	MEDIUM STIFF
- 8 ft	9	30.8	••••••••	8	LOOSE	MEDIUM STIFF
-	11	37.6	••••••••••	10	LOOSE	STIFF
-	11	37.6	••••••••••	10	LOOSE	STIFF
- 9 ft	11	37.6	••••••••••	10	LOOSE	STIFF
-	10	34.2	•••••••••	9	LOOSE	STIFF
-	10	34.2	•••••••••	9	LOOSE	STIFF
- 3 m 10 ft	14	47.9	••••••••••••••	13	MEDIUM DENSE	STIFF
-	17	52.0	••••••••••••••••	14	MEDIUM DENSE	STIFF
-	17	52.0	••••••••••••••••	14	MEDIUM DENSE	STIFF
-						
- 11 ft						
-						
-						
- 12 ft						
-						
-						
- 4 m 13 ft						

Originally performed for PID 112034

GEOTECHNICAL PROFILE - LANDSLIDE
WDCP SOUNDING LOGS FOR D-008-0-21 & D-008-1-21

DESIGN AGENCY

DESIGNER AJC
REVIEWER SAT 12-05-22
PROJECT ID 117367
SUBSET 24 TOTAL 24
SHEET P.60 TOTAL 60

PAU-24/127-13.55/15.98 PART 2

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/10/2023 TIME: 1:18:03 PM USER: kosterha
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 01\Paulding\111892\400-Engineering\Geotechnical\Sheets\111892_YL014.dgn