

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

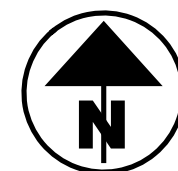
PIC-23-18.52 PART 2

VILLAGE OF SOUTH BLOOMFIELD
HARRISON TOWNSHIP
PICKAWAY COUNTY
FOR PART 1, SEE: PIC-23-12.89
FOR PART 3, SEE: PIC-762-13.37



LOCATION MAP

LATITUDE: 39°44'15.04"N LONGITUDE: 82°59'12.77"W



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

DESIGN DESIGNATION

CURRENT ADT (2024)	29,500
DESIGN YEAR ADT (2044)	30,500
DESIGN HOURLY VOLUME (2044)	3,500
DIRECTIONAL DISTRIBUTION	60.5%
TRUCKS (24 HOUR B&C)	17%
DESIGN SPEED	65 MPH
LEGAL SPEED	60 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
03 PRINCIPAL 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:
RESOURCE INTERNATIONAL INC.
6350 PRESIDENTIAL GATEWAY
COLUMBUS, OHIO 43231
(614) 823-4949

INDEX OF SHEETS:

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

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

CONSTRUCTION OF A LEFT TURN LANE FOR US-23 NORTHBOUND ACCESS TO A REST AREA PLANNED FOR FUTURE CONSTRUCTION. COMPLEMENTARY TO THE LEFT TURN, AN INTERSECTION IS PROPOSED TO ACCOMMODATE INGRESS AND EGRESS TO THE FUTURE REST AREA. WORK INCLUDES MEDIAN CONSTRUCTION OF NECESSARY PAVEMENT FOR THE LEFT TURN LANE AND INTERSECTION ALONG WITH THE REMOVAL OF TWO EXISTING CROSSOVERS AND ADDITIONS OR ADJUSTMENTS TO EXISTING DRAINAGE FEATURES. RELEVANT PAVEMENT MARKING ADDITIONS ARE ALSO PROPOSED.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.7 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.2 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)

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 NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

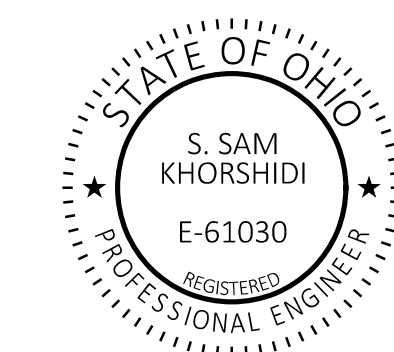
DISTRICT DEPUTY DIRECTOR

Anthony C. Turowski
Anthony C. Turowski, P.E.
06

DIRECTOR, DEPARTMENT OF TRANSPORTATION

Jack Markowski

ENGINEER'S SEAL
ROADWAY

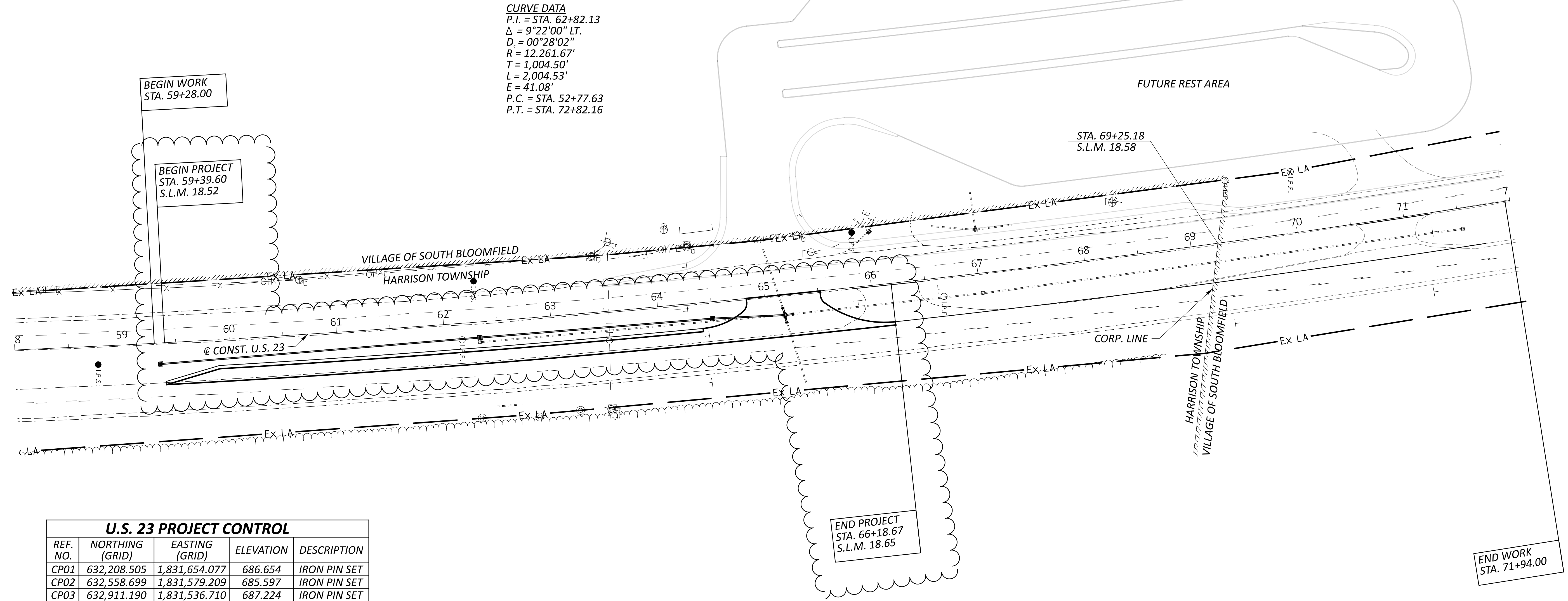


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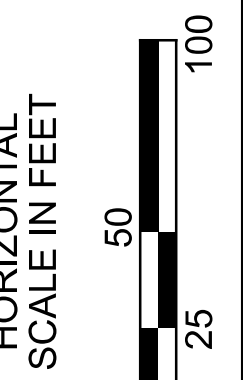
DESIGN AGENCY	RESOURCE INTERNATIONAL
DESIGNER	JAS
REVIEWER	BBB
PROJECT ID	114835
SHEET	P.1
TOTAL	32

PIC-23-18.52

MODEL: TITLE SHEET PAPER SIZE: 34x22 (in.) DATE: 2/1/2024 TIME: 11:16:54 AM USER: kevinj
G:\Design\Connect Projects\2023\W-23-035 PIC-23-REST AREA R-CUT\118559\400-Engineering\Roadway\Sheets\117789_G1001.dgn



NOTE:
 THERE ARE NO EXISTING LANDSCAPE AREAS
 WITHIN THE WORK LIMITS



SCHEMATIC PLAN

DESIGN AGENCY



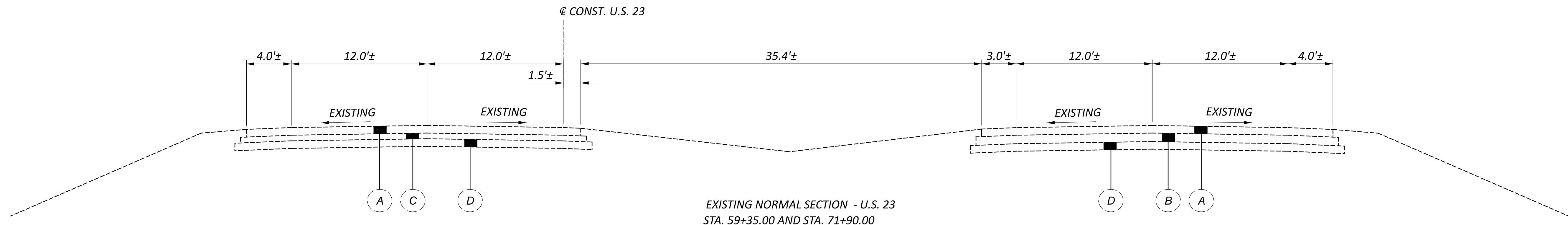
6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4849

DESIGNER
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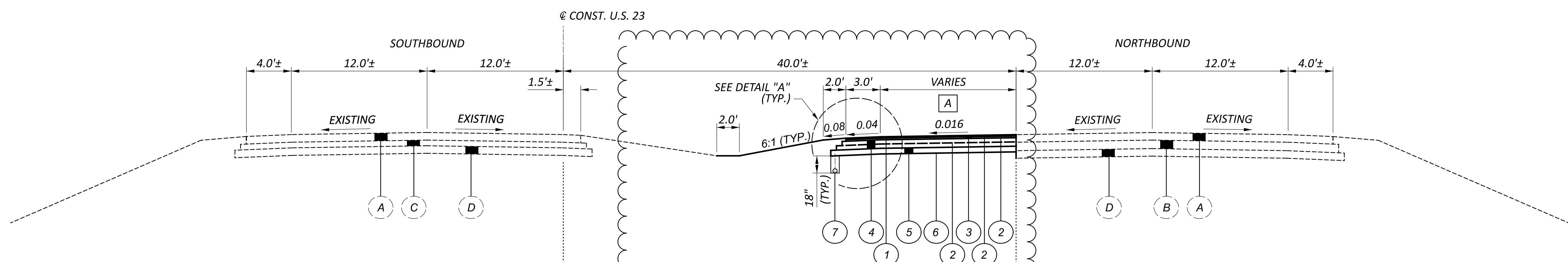
REVIEWER
 BBB 10/02/23

PROJECT ID
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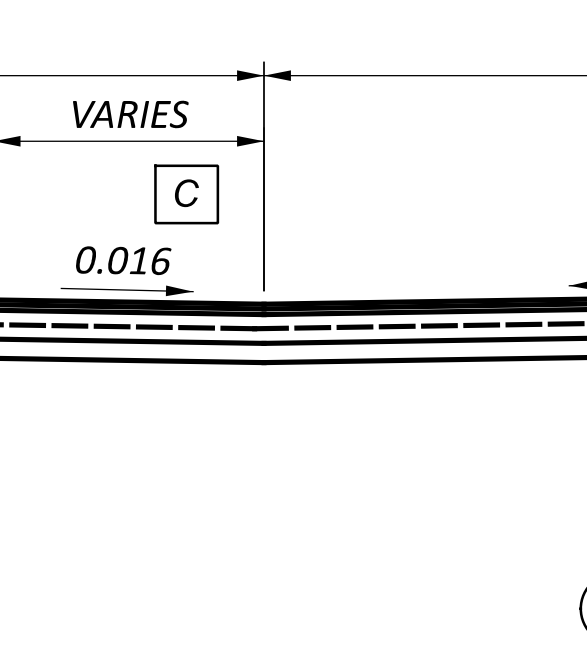
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EXISTING NORMAL SECTION - U.S. 23
 STA. 59+35.00 AND STA. 71+90.00

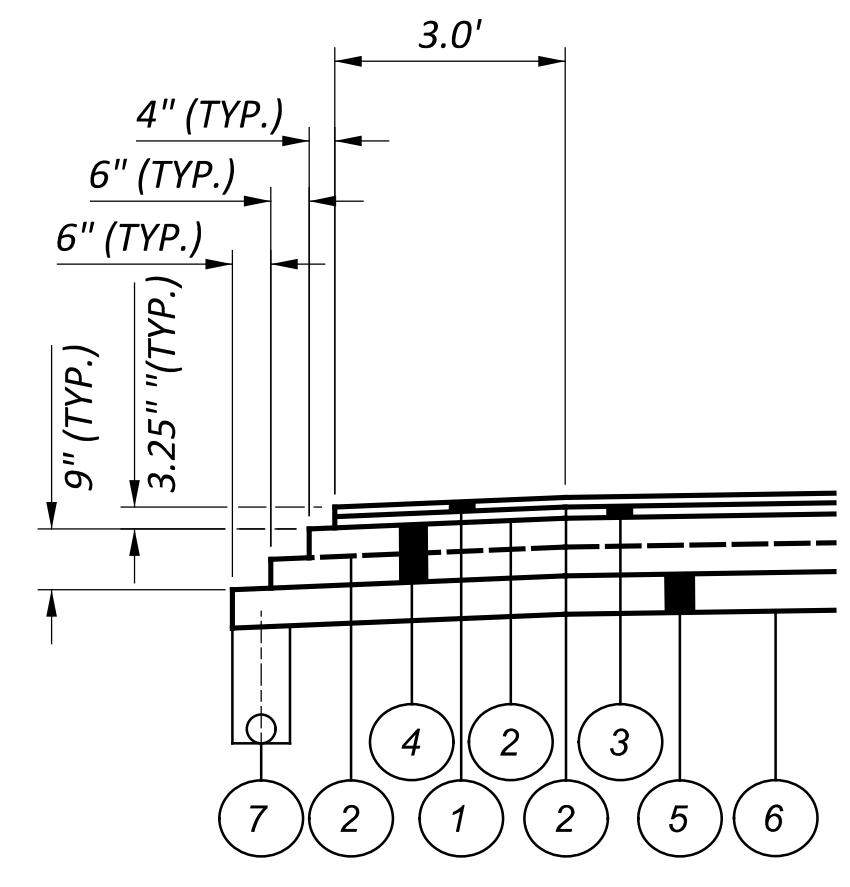


NORMAL SECTION - U.S. 23
 STA. 59+39.60 TO STA. 64+40.46



APPLIES:
 STA. 64+40.46 TO STA. 64+83.00

- A** VARIES FROM 0' TO 12'
 STA. 59+39.60 TO STA. 59+89.60
 12' FROM STA. 59+89.86 TO 64+39.06
- B** VARIES FROM 12' TO 20'
 STA. 64+40.46 TO STA. 64+65.92
 20' FROM STA. 64+65.92 TO STA. 64+83.00
- C** 0' FROM STA. 64+40.46 TO STA. 64+65.92
 VARIES FROM 0' TO 16.16'
 STA. 64+65.92 TO STA. 64+83.00



DETAIL "A"

PROPOSED LEGEND

- 1 ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)
- 2 ITEM 407 - NON-TRACKING TACK COAT (REFERENCE CMS TABLE 407.06-1 FOR APPLICATION RATES)
- 3 ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449)
- 4 ITEM 301 - 9" ASPHALT CONCRETE BASE, PG64-22, (449)
 (2 LIFTS - NOT LESS THAN 3" AND NO GREATER THAN 6")
- 5 ITEM 304 - 6" AGGREGATE BASE, AS PER PLAN
- 6 ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING
- 7 ITEM 605 - 6" BASE PIPE UNDERDRAINS
- 8 ITEM 252 - FULL DEPTH PAVEMENT SAWING

EXISTING LEGEND

- A** ±8.5" EXISTING ASPHALT CONCRETE
- B** ±9" EXISTING CONCRETE BASE
- C** ±6.5" EXISTING ASPHALT CONCRETE BASE
- D** ±8" EXISTING AGGREGATE BASE

DESIGN AGENCY

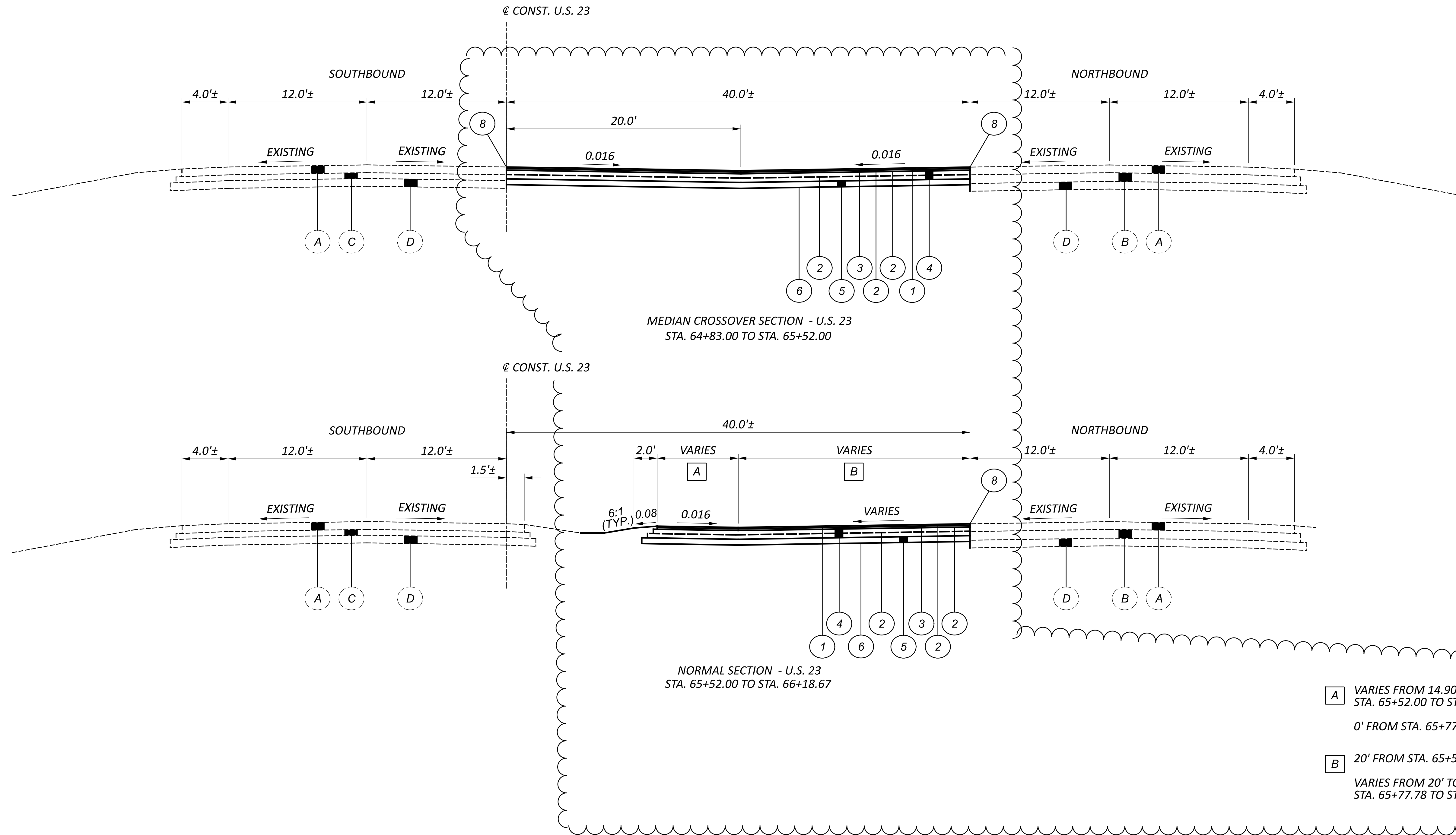
 6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 923-4969

DESIGNER
JAS

REVIEWER
BBB 10/02/23

PROJECT ID
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SHEET TOTAL
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A VARIES FROM 14.90' TO 0'
 STA. 65+52.00 TO STA. 65+77.78
 0' FROM STA. 65+77.78 TO STA. 66+18.67

B 20' FROM STA. 65+52.00 TO STA. 65+77.78
 VARIES FROM 20' TO 3'
 STA. 65+77.78 TO STA. 66+18.67

PROPOSED LEGEND

- 1 ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)
- 2 ITEM 407 - NON-TRACKING TACK COAT (REFERENCE CMS TABLE 407.06-1 FOR APPLICATION RATES)
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- 5 ITEM 304 - 6" AGGREGATE BASE, AS PER PLAN
- 6 ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING
- 7 ITEM 605 - 6" BASE PIPE UNDERDRAINS
- 8 ITEM 252 - FULL DEPTH PAVEMENT SAWING
- 9 ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS

EXISTING LEGEND

- A ±8.5" EXISTING ASPHALT CONCRETE
- B ±9" EXISTING CONCRETE BASE
- C ±6.5" EXISTING ASPHALT CONCRETE BASE
- D ±8" EXISTING AGGREGATE BASE



UTILITIES

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

ELECTRIC	TRANSPORTATION
SOUTH CENTRAL POWER COMPANY	ODOT TRAFFIC (DISTRICT 6)
720 MILL PARK DRIVE	400 EAST WILLIAM STREET
LANCASTER, OH 43130	DELAWARE, OH 43015
OFFICE: 740.689.6150	OFFICE: 740.833.8332

TELEPHONE

HORIZON TELEPHONE
68 EAST MAIN STREET
CHILLICOTHE, OH 45601
OFFICE: 740.772.8396

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: REBAR SET

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC 2 PARALLEL
COORDINATE SYSTEM: OHIO OH83-SF (GRID)
COMBINED SCALE FACTOR: 1.00000000
ORIGIN OF COORDINATE SYSTEM: 0,0

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.

UNITS ARE IN U.S. SURVEY FEET.

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.

CLEARING AND GRUBBING

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

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	370 CU. YD.
659, SEEDING AND MULCHING	3,332 SQ. YD.
659, REPAIR SEEDING AND MULCHING	167 SQ. YD.
659, COMMERCIAL FERTILIZER	0.45 TON
659, LIME	0.7 ACRES
659, WATER	9 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 304 - AGGREGATE BASE, AS PER PLAN (VAR. DEPTH)

THIS ITEM SHALL CONFORM TO ITEM 304 OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE QUANTITY PROVIDED IN THE PAVEMENT EDGE REPAIR CALCULATIONS ON SHEET 3 HAS BEEN ESTIMATED USING A 6" THICKNESS. THE CONTRACTOR MUST FIRST FIELD VERIFY THE THICKNESS OF THE EXISTING AGGREGATE BASE AND DETERMINE THE DEPTH OF EXISTING SUBGRADE PRIOR TO THE PLACING OF THIS ITEM. IF THE EXISTING SUBGRADE IS FOUND TO BE AT A DIFFERENT ELEVATION THAN THE PROPOSED SUBGRADE (WHEN ASSUMING A PROPOSED 6" AGGREGATE BASE), THE CONTRACTOR SHALL PROVIDE THE RESULTS OF THE INVESTIGATION TO THE PROJECT ENGINEER. THE ENGINEER SHALL THEN DIRECT THE CONTRACTOR TO ADJUST THE THICKNESS OF THIS ITEM ACCORDINGLY. THE CONTRACTOR WILL BE COMPENSATED FOR ANY ADDITIONAL QUANTITY OF THIS ITEM AT THE CONTRACT BID PRICE OF THE ITEM. THE CONTRACTOR WILL NOT RECEIVE ANY ADDITIONAL COMPENSATION BEYOND THE ADJUSTED QUANTITY AT THE CONTRACT BID PRICE.

ENVIRONMENTAL COMMITMENTS

1. ANY AND ALL CONSTRUCTION DEBRIS, EARTHEN DEBRIS, EXCESS ASPHALT OR CONCRETE, WOOD DEBRIS FROM CLEARING, EXCESS FILL MATERIAL AND TRASH SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED UPLAND SITE OR LAND FILL ABOVE FEMA 100-YEAR FLOOD ELEVATIONS.
2. NO TREE CLEARING IS REQUIRED OR PERMITTED ON THIS PROJECT.
3. NO STREAMS, DITCHES, OR WETLANDS SHALL BE IMPACTED AS PART OF THIS PROJECT.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

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

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.

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

ITEM 605, AGGREGATE DRAINS	100 FT.
ITEM 605, 6" UNCLASSIFIED PIPE UNDERDRAINS	100 FT.
ITEM 611, 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	30 FT.

DESIGN AGENCY



8350 PRESIDENTIAL GATEWAY
COLUMBUS, OHIO 43231
(614) 823-4849

DESIGNER
JAS

REVIEWER
BBB 10/02/23

PROJECT ID
114835

SHEET TOTAL
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MODEL: GENERAL NOTES PAPER SIZE: 34x22 (in.) DATE: 2/1/2024 TIME: 11:19:05 AM USER: kevinj
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ITEM 614, MAINTAINING TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS, AND THE FOLLOWING:

A MINIMUM OF ONE TWELVE FOOT LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON U.S. 23 BY USE OF THE EXISTING PAVEMENT.

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.

NO WORK SHALL BE PERFORMED AND AT LEAST TWO LANES PER DIRECTION ON U.S. 23 SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

- NEW YEAR'S (OBSERVED) GENERAL/REGULAR ELECTION DAY (NOV)
- TOTAL SOLAR ECLIPSE (4/8/24) THANKSGIVING
- MEMORIAL DAY CHRISTMAS (OBSERVED)
- FOURTH OF JULY (OBSERVED)
- LABOR DAY

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

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00AM FRIDAY (THANKSGIVING ONLY)
FRIDAY	6:00AM WEDNESDAY THROUGH 6:00AM MONDAY
SATURDAY	12:00N THURSDAY THROUGH 6:00AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE FOR EACH UNIT OF TIME A LANE/SHOULDER/RAMP IS CLOSED BY THE CONTRACTOR'S ACTION WHILE NOT OTHERWISE PERMITTED BY THE LANE VALUE CONTRACT TABLE.

ITEM 614, MAINTAINING TRAFFIC (CONT'D)

SECTION (SLM)	EXISTING NUMBER OF LANES PER DIRECTION	LANE CLOSURES ARE NOT PERMITTED				DIS-INCENTIVES PER MINUTE PER LANE
		LANE REDUC-TION	MON TO THUR	FRI TO SAT	SUN	
PIC-23						
DUPONT ROAD (5.54) TO FRANKLIN COUNTY LINE (23.16) NORTH-BOUND	2	2 TO 1	6AM-9AM	NO RESTRIC-TION	NO RESTRIC-TION	\$50
DUPONT ROAD (5.54) TO FRANKLIN COUNTY LINE (23.16) SOUTH-BOUND	2	2 TO 1	3PM-6PM	NO RESTRIC-TION	NO RESTRIC-TION	\$50
SHORT TERM SHOULDER CLOSURES ARE PERMITTED ANY TIME EXCEPT 6AM-9AM AND 3PM-6PM MONDAY-FRIDAY.						
REST AREA RAMP CLOSURES ARE PERMITTED MONDAY-THURSDAY, 10AM-4PM.						

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

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 2.5 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 MOT ESTIMATED QUANTITIES TABLE:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE-WAY) 38 EACH

ITEM 614, OBJECT MARKER, ONE-WAY 38 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 (UNIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING 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.

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.

NOTIFICATION OF TRAFFIC RESTRICTIONS (CONT'D)

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE

LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE

START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION
---	-----	--

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

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).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:

- ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND
- AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,
- AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

DESIGN AGENCY



6350 PRESIDENTIAL GATEWAY
COLUMBUS, OHIO 43231
(614) 823-4849

DESIGNER
JAS

REVIEWER
BBB 10/02/23

PROJECT ID
114835

SHEET TOTAL
P.6 | 32

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

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

- THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR
 - THE ACTIVE WORK AREA Laterally CLOSEST TO THE OPEN TRAVELED LANE; OR
 - OTHER LOCATION AS APPROVED BY THE ENGINEER.
- THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

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.

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

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 60 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.

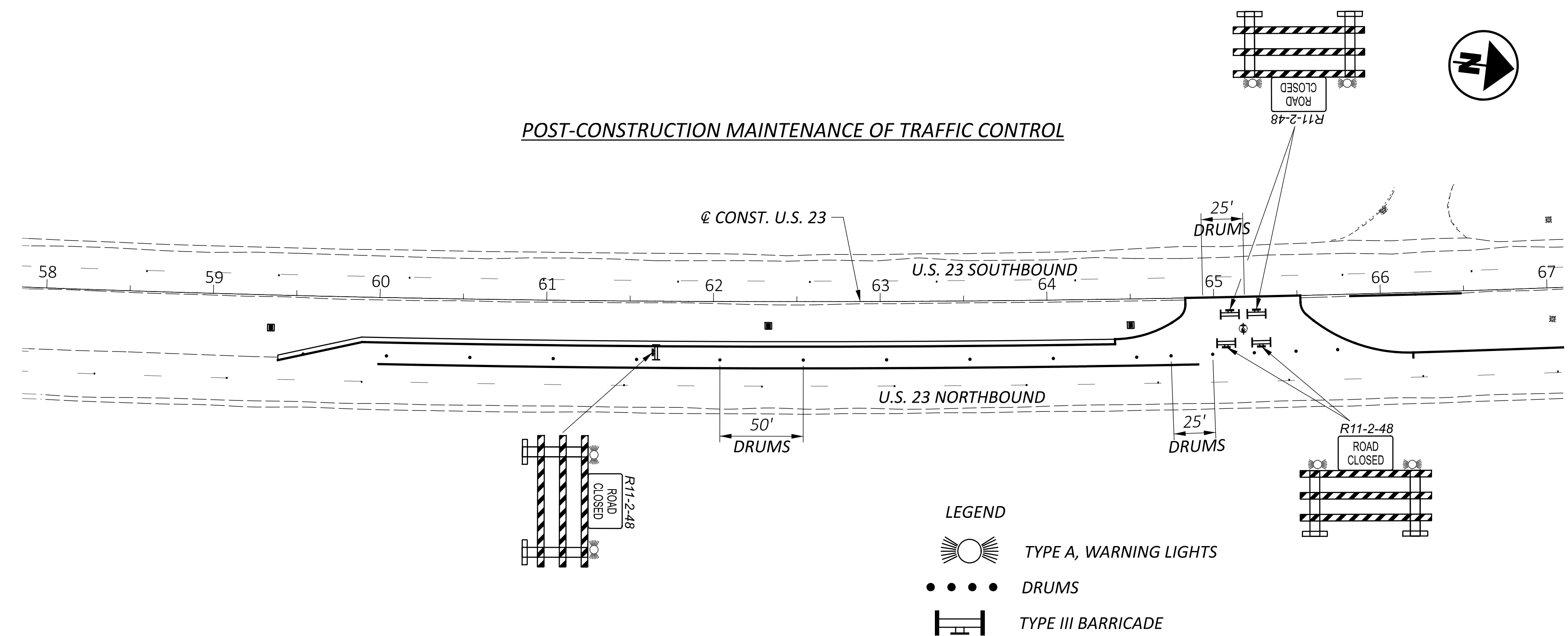
SEQUENCE OF CONSTRUCTION

1. AFTER PLACING MAINTENANCE OF TRAFFIC DEVICES FOR THE SAFETY OF CONTRACTOR PERSONNEL IN ORDER TO PERFORM PROPOSED WORK IN THE MEDIAN AND FOR THE SAFETY OF THE TRAVELING PUBLIC, TO THE SATISFACTION OF THE PROJECT ENGINEER, RECONSTRUCT MEDIAN AREA PER PLANS.
2. UPON COMPLETION OF THE PROPOSED MEDIAN WORK, WITH THE PROJECT ENGINEER'S APPROVAL, CONSTRUCTION RELATED MOT DEVICES ARE TO BE REMOVED AND PERMANENT PAVEMENT MARKINGS ARE TO BE PLACED. ADDITIONALLY, ALL PROPOSED SIGNAGE ADJUSTMENTS, INCLUDING THE PLACEMENT OF COVERED SIGNS, FOR THE PROJECT IS TO OCCUR.
3. AFTER PAVEMENT MARKINGS AND SIGNAGE RELATED WORK HAS BEEN COMPLETED POST-CONSTRUCTION MOT DEVICES ARE TO BE PLACED (SEE DIAGRAM) AND APPROVED BY THE PROJECT ENGINEER.

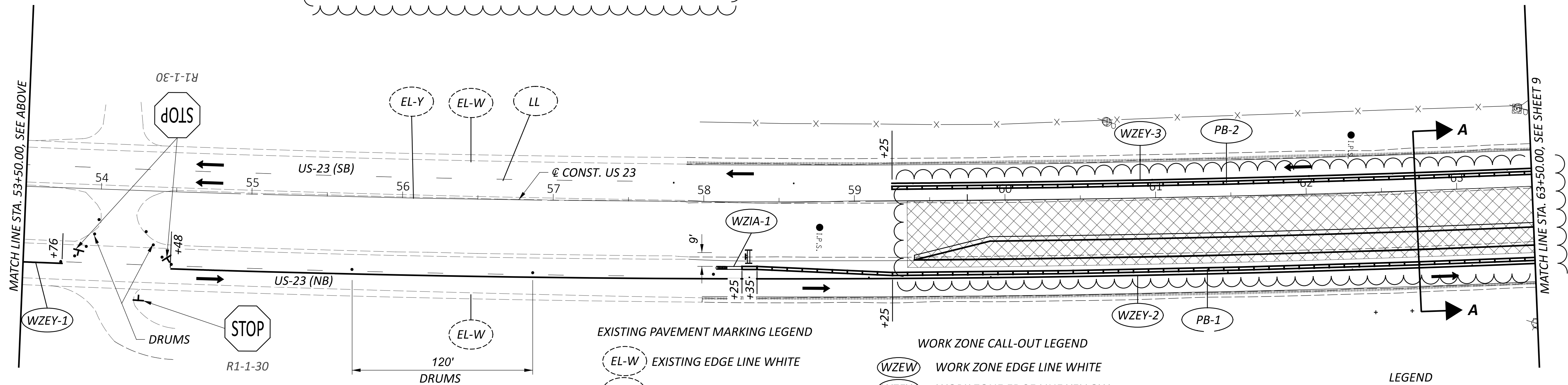
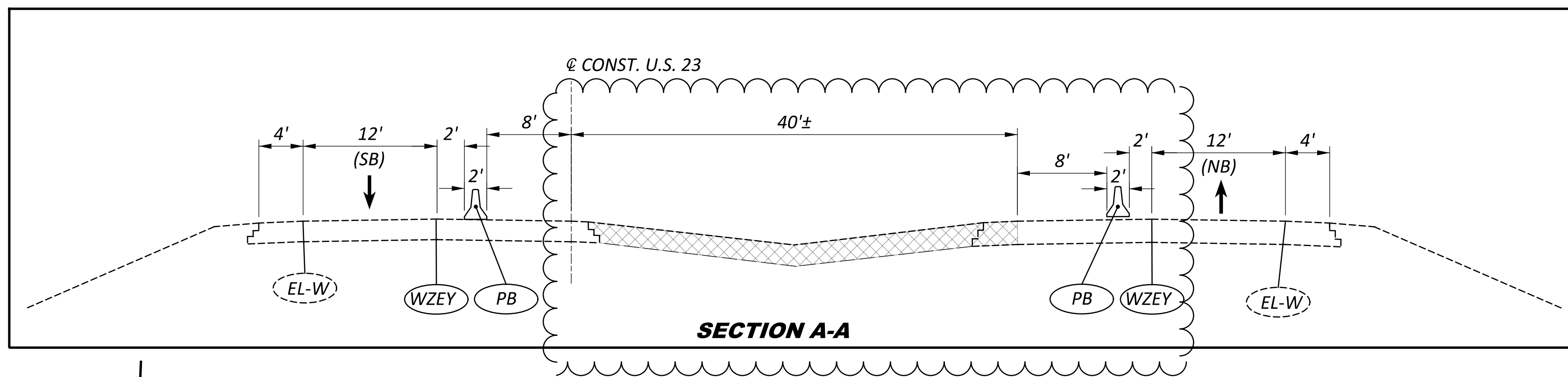
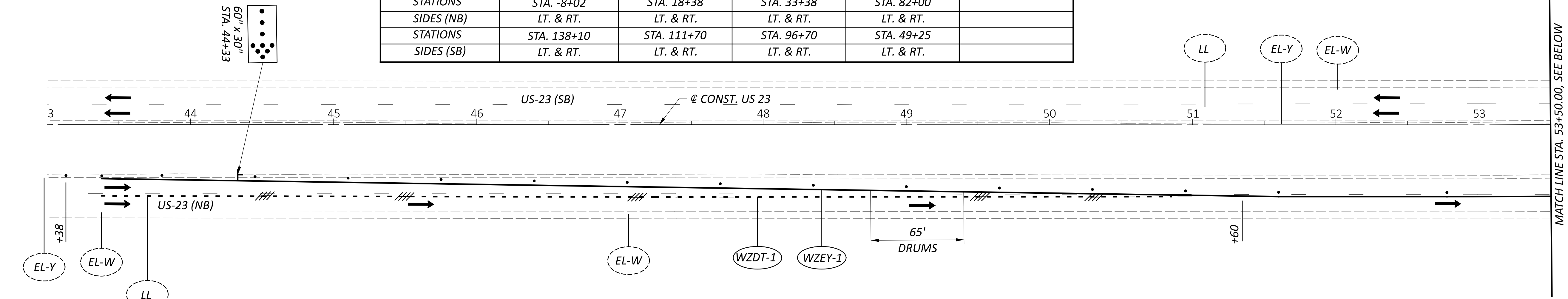
MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

REF NO.	SHEET NO.	STATION TO STATION	SIDE	614	614	614	614	614	622
				WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	BARRIER REFLECTOR, TYPE 1	OBJECT MARKER, ONE WAY	WORK ZONE EDGE LINE, CLASS I, 6"	WORK ZONE DOTTED LINE, CLASS I	PORTABLE BARRIER, UNANCHORED
				EACH	EACH	EACH	MILE	FT	FT
PHASE 1									
PB-1	8	58+25.00 TO 63+50.00	RT		12	12			525
PB-2	8	59+25.00 TO 63+50.00	LT		10	10			425
PB-3	9	63+50.00 TO 72+00.00	RT		19	19			855*
PB-4	9	63+50.00 TO 72+25.00	LT		19	19			875
WZIA-1	8	58+25.00	RT	1					
WZIA-2	9	72+26.00	LT	1					
WZDT-1	8	43+38.00 TO 51+60.00	RT					822	
WZDT-2	9	78+90.00 TO 86+70.00	LT					780	
WZEY-1	8	43+38.00 TO 53+76.00	RT				0.20		
WZEY-2	8	54+48.00 TO 63+50.00	RT				0.18		
WZEY-3	9	59+25.00 TO 63+50.00	LT				0.09		
WZEY-4	9	63+50.00 TO 72+00.00	RT				0.17		
WZEY-5	9	63+50.00 TO 86+70.00	LT				0.44		
TOTALS CARRIED TO GENERAL SUMMARY				2	60	60	1.08	1,602	2,680

*ADJUSTED FOR CURVATURE



ADVANCE WARNING SIGN TABLE LOCATIONS				
SIGN NUMBER	ROAD WORK AHEAD W20-1-48 1 MILE W16-3AP-30	LEFT LANE CLOSED AHEAD W20-5-48	END ROAD WORK W4-2R-48	END ROAD WORK G20-2-48
STATIONS	STA. -8+02	STA. 18+38	STA. 33+38	STA. 82+00
SIDES (NB)	LT. & RT.	LT. & RT.	LT. & RT.	LT. & RT.
STATIONS	STA. 138+10	STA. 111+70	STA. 96+70	STA. 49+25
SIDES (SB)	LT. & RT.	LT. & RT.	LT. & RT.	LT. & RT.



EXISTING PAVEMENT MARKING LEGEND

- (EL-W) EXISTING EDGE LINE WHITE
- (EL-Y) EXISTING EDGE LINE YELLOW
- (LL) EXISTING LANE LINE
- (CH) EXISTING CHANNELIZING LANE
- (LA) PAVEMENT MARKING ARROW

WORK ZONE CALL-OUT LEGEND

- (WZEW) WORK ZONE EDGE LINE WHITE
- (WZEY) WORK ZONE EDGE LINE YELLOW
- (WZLL) WORK ZONE LANE LINE
- (WZCH) WORK ZONE CHANNELIZING LINE
- (WZDT) WORK ZONE DOTTED LINE
- (PB) PORTABLE BARRIER
- (WZIA) WORK ZONE IMPACT ATTENUATOR

(Sun symbol) TYPE A, WARNING LIGHTS

(Hatched area) EXISTING PAVEMENT MARKING AND RAISED PAVEMENT MARKER REMOVED

(Cross-hatched area) PHASE WORK ZONE

(Dashed line) IMPACT ATTENUATOR

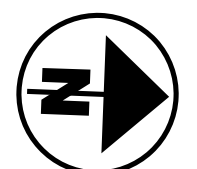
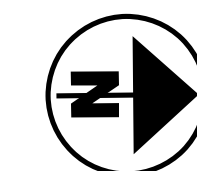
LEGEND

(Dotted line) DRUMS

(Barricade symbol) TYPE III BARRICADE

(Barrier symbol) PORTABLE BARRIER

(Dashed box) EXISTING SIGN



MAINTENANCE OF TRAFFIC PLAN
 STA. 43+00.00 TO STA. 63+50.00

DESIGN AGENCY



6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4549

DESIGNER

JAS

REVIEWER

SSK 10/02/23

PROJECT ID

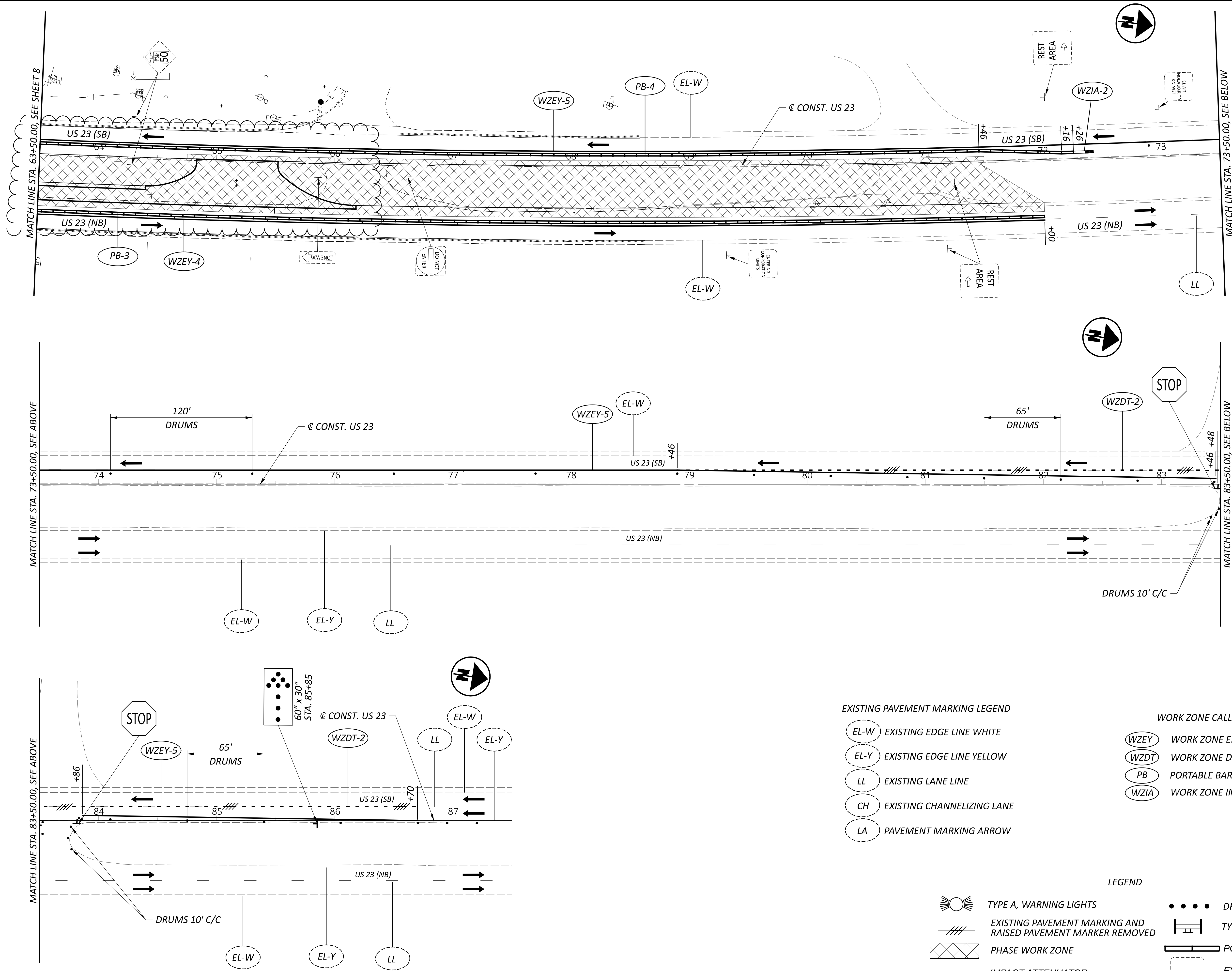
114835

SHEET

P.8

TOTAL

32



EXISTING PAVEMENT MARKING LEGEND

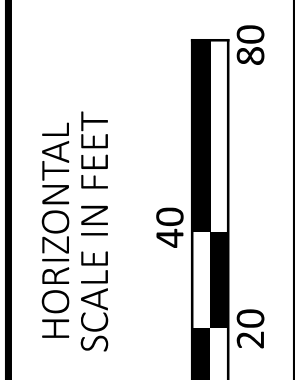
- EXISTING EDGE LINE WHITE
- EXISTING EDGE LINE YELLOW
- EXISTING LANE LINE
- EXISTING CHANNELIZING LANE
- PAVEMENT MARKING ARROW

WORK ZONE CALL-OUT LEGEND

- WORK ZONE EDGE LINE YELLOW
- WORK ZONE DOTTED LINE
- PORTABLE BARRIER
- WORK ZONE IMPACT ATTENUATOR

LEGEND

- TYPE A, WARNING LIGHTS
- EXISTING PAVEMENT MARKING AND RAISED PAVEMENT MARKER REMOVED
- PHASE WORK ZONE
- IMPACT ATTENUATOR
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- EXISTING SIGN



MAINTENANCE OF TRAFFIC PLAN
 STA. 63+50.00 TO STA. 87+50.00

DESIGN AGENCY

 6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4549

DESIGNER
 JAS

REVIEWER
 SSK 10/02/23

PROJECT ID
 114835

SHEET TOTAL
 P.9 32

REF NO.	SHEET NO.	STATION TO STATION		SIDE	202		204		252		301		304		407		442		605		611		611		611		611	
					PAVEMENT REMOVED SY	PIPE REMOVED, 24" AND UNDER FT	CATCH BASIN REMOVED EACH	SUBGRADE COMPACTION SY	PROOF ROLLING HOUR	FULL DEPTH PAVEMENT SAWING FT	ASPHALT CONCRETE BASE, PG64-22, (449) CY	AGGREGATE BASE, AS PER PLAN CY	NON-TRACKING TACK COAT GAL	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449) CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449) CY	6" BASE PIPE UNDERDRAINS FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	12" CONDUIT, TYPE B FT	12" CONDUIT, TYPE C FT	15" CONDUIT, TYPE B FT	CATCH BASIN, NO. 8 EACH	MANHOLE, NO. 3 EACH						
US-23																												
R-1	13	59+39.60	TO	62+50.00	RT	49				314																		
R-2	13	62+32.84	TO	62+50.00	RT		16	1																				
R-3	14	62+50.00	TO	67+50.00	LT/RT	383				577																		
R-4	14	62+50.00	TO	65+17.17	RT		267	1																				
R-5	14	65+17.17	TO	65+18.38	RT		6																					
R-6	14	65+15.99	TO	65+17.17	RT		6																					
R-7	14	65+17.17	TO	65+24.74	RT		7																					
R-8	14	64+83.00	TO	65+52.00	RT	11				67																		
R-9	15	67+50.00	TO	71+71.43	LT/RT	355				499																		
D-1	13	59+35.00	TO	62+32.92	RT																							
D-2	13	62+32.92	TO	62+50.00	RT																							
D-3	14	62+50.00	TO	64+50.00	RT																							
D-4	14	64+50.00	TO	65+17.33	RT																							
D-5	14	65+17.33	TO	65+18.38	RT																							
D-6	14	65+15.99	TO	65+17.33	RT																							
D-7	14	65+17.33	TO	65+24.75	RT																							
P-1	13	59+39.60	TO	62+50.00	RT				585	0.3	127	89	80	21	24													
P-2	14	62+50.00	TO	67+50.00	RT				902	0.5	205	142	132	34	39													
U-1	13	59+35.00	TO	62+32.92	RT															289								
U-2	13	62+32.92	TO	62+50.00	RT														10									
U-3	14	62+50.00	TO	64+42.00	RT														10									
TOTALS CARRIED TO GENERAL SUMMARY						798	302	2	1,487	0.8	1,457	332	231	212	55	63	491	20	73	511	12	3	1					

ROADWAY ESTIMATED QUANTITIES

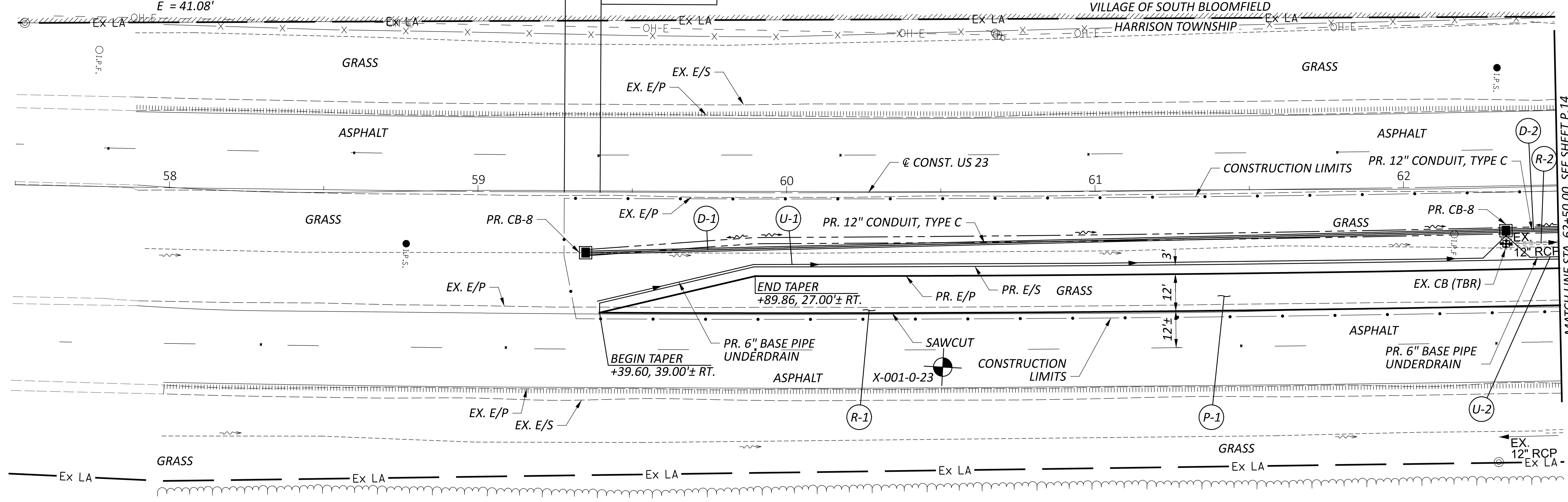
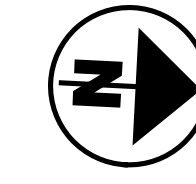
DESIGN AGENCY

 6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4549
 DESIGNER
BBB
 REVIEWER
 SSK 10/02/23
 PROJECT ID
114835
 SHEET TOTAL
 P.12 32

CURVE DATA
 P.I. = STA. 62+82.13
 $\Delta = 09^{\circ}22'00''$ LT
 $D_c = 00^{\circ}28'02''$
 $R = 12,261.67'$
 $T = 1,004.50'$
 $L = 2,004.53'$
 $E = 41.08'$

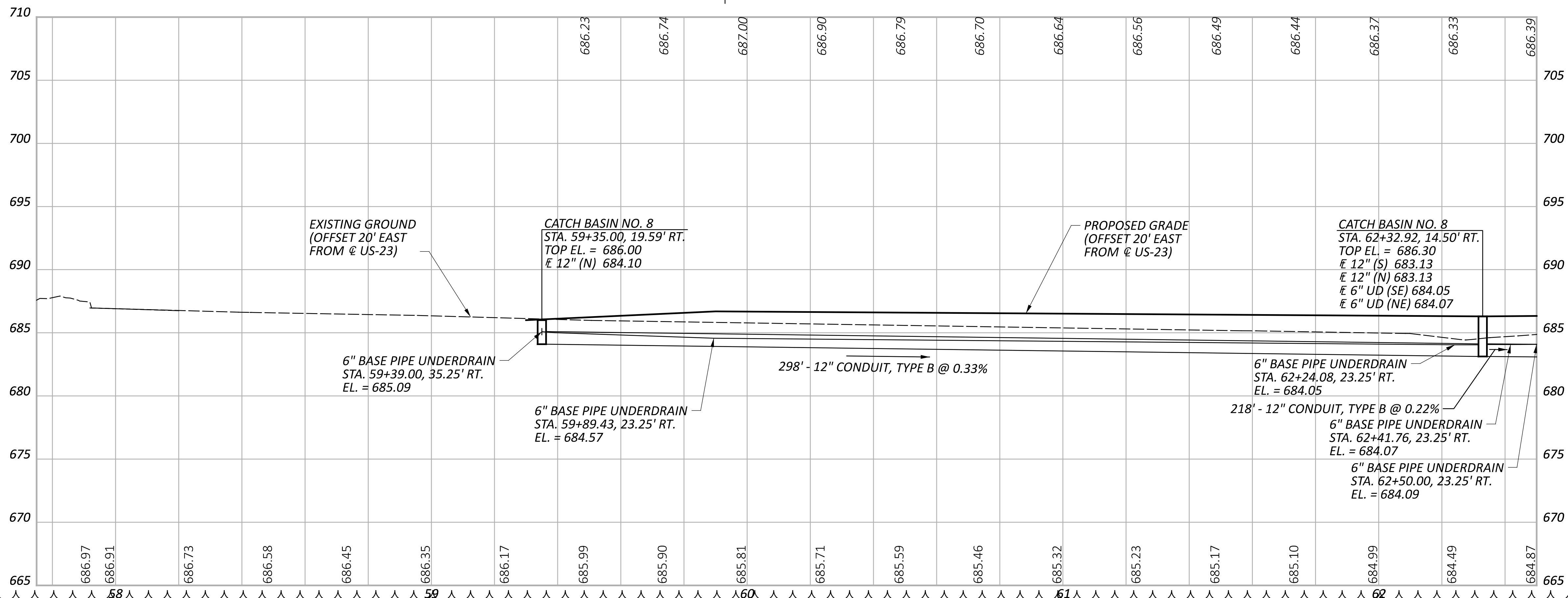
BEGIN WORK
 STA. 59+28.00

BEGIN PROJECT
 STA. 59+39.60
 S.L.M. 18.52



LEGEND
 (TBR) - TO BE REMOVED
 - SOIL BORING LOCATION

NOTES
 FOR ROADWAY SUBSUMMARY, SEE SHEET 12
 FOR PROJECT CONTROL, SEE SHEET 2
 FOR CROSS SECTIONS, SEE SHEETS 16 - 25



PLAN AND PROFILE
 STA. 57+50.00 TO STA. 62+50.00

DESIGN AGENCY

 8350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4849

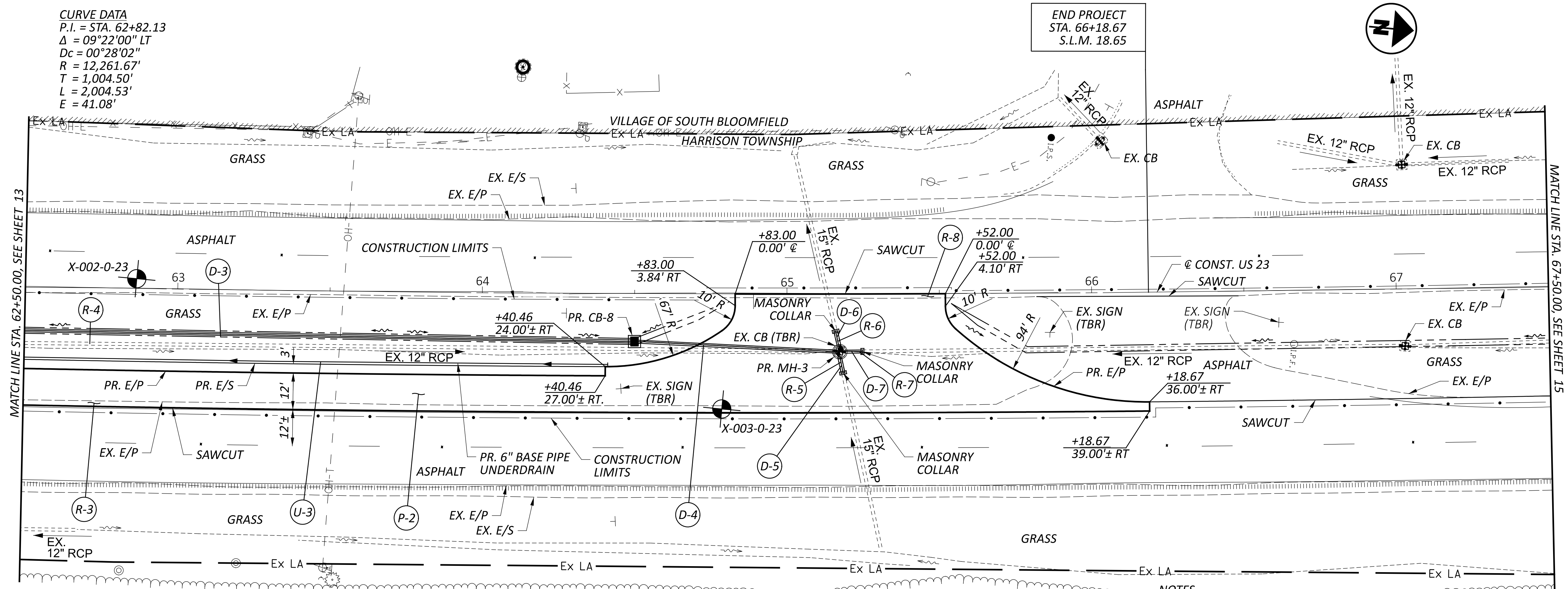
DESIGNER
 JAS

REVIEWER
 BBB 10/02/23

PROJECT ID
 114835

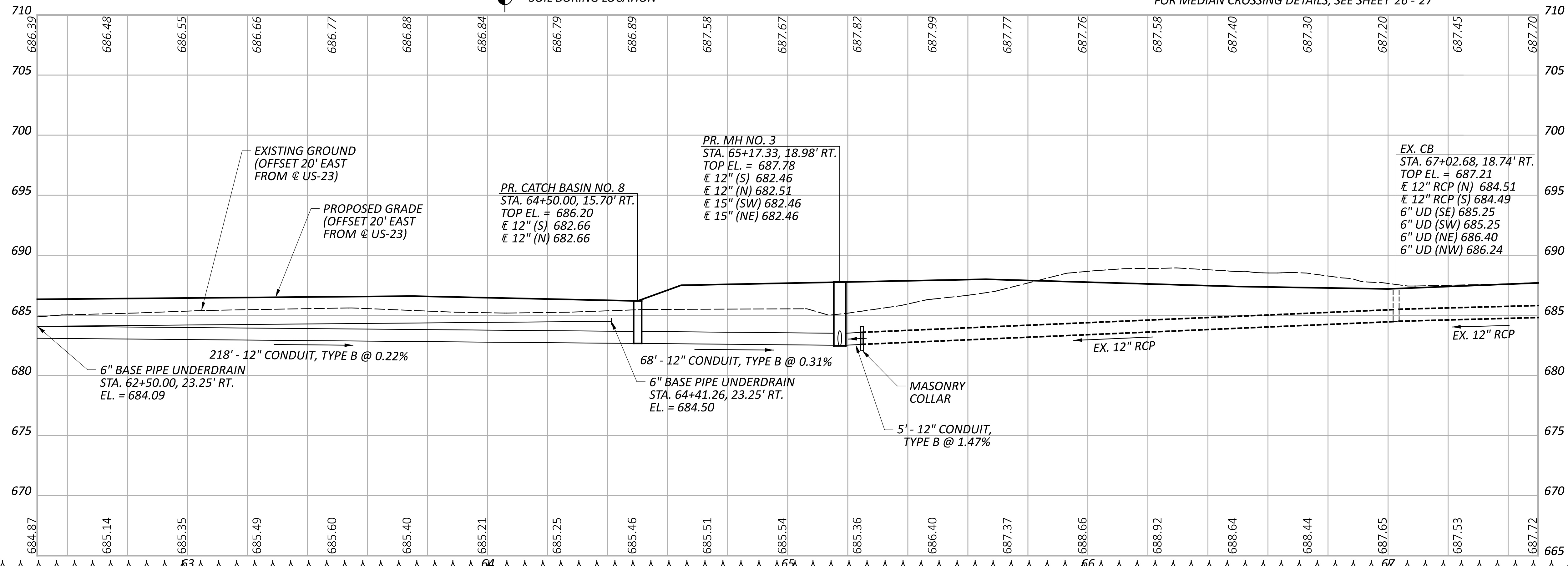
SHEET TOTAL
 P.13 32

CURVE DATA
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 $D_c = 00^{\circ}28'02''$
 $R = 12,261.67'$
 $T = 1,004.50'$
 $L = 2,004.53'$
 $E = 41.08'$



LEGEND
 (TBR) - TO BE REMOVED
 - SOIL BORING LOCATION

NOTES
 FOR ROADWAY SUBSUMMARY, SEE SHEET 12
 FOR PROJECT CONTROL, SEE SHEET 2
 FOR CROSS SECTIONS, SEE SHEETS 16 - 25
 FOR MEDIAN CROSSING DETAILS, SEE SHEET 26 - 27



PLAN AND PROFILE
 STA. 62+50.00 TO STA. 67+50.00

DESIGN AGENCY



6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4549

DESIGNER

JAS

REVIEWER

BBB 10/02/23

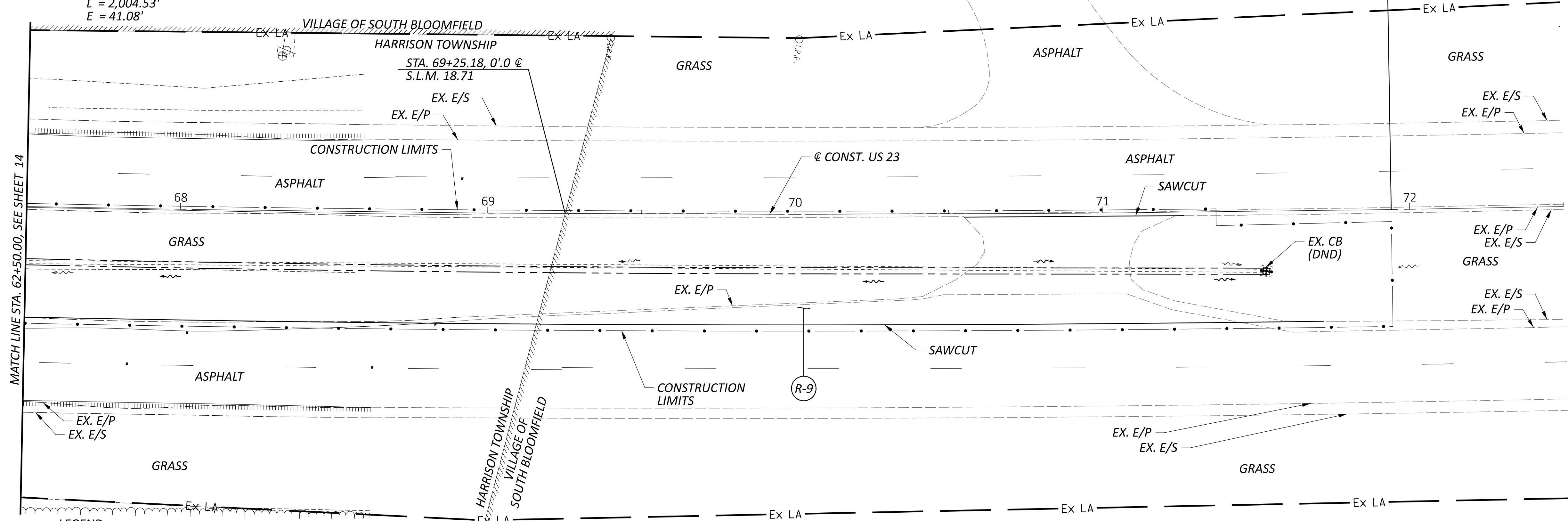
PROJECT ID

114835

SHEET TOTAL

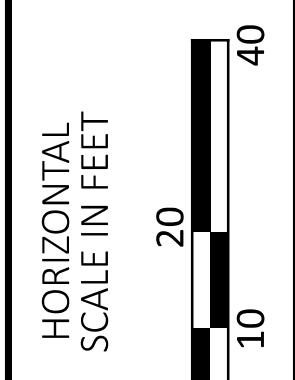
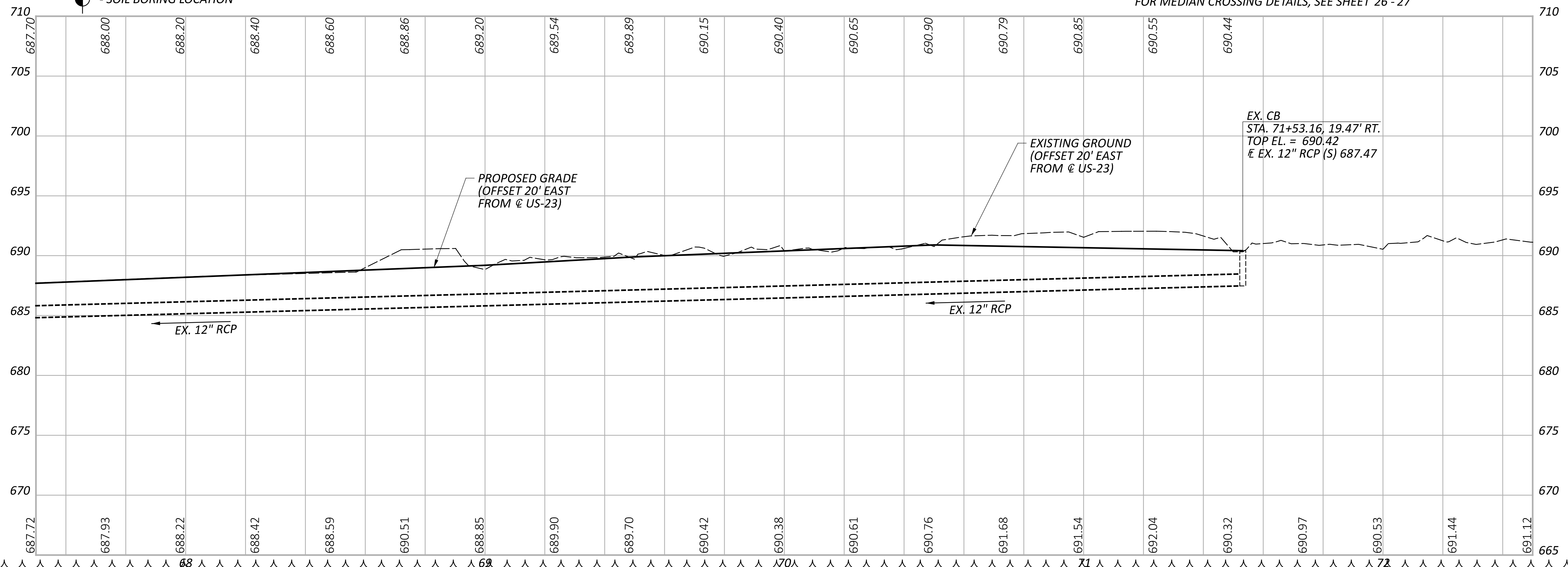
P.14 32

CURVE DATA
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 $D_c = 00^{\circ}28'02''$
 $R = 12,261.67'$
 $T = 1,004.50'$
 $L = 2,004.53'$
 $E = 41.08'$



LEGEND
 (TBR) - TO BE REMOVED
 (DND) - DO NOT DISTURB
 - SOIL BORING LOCATION

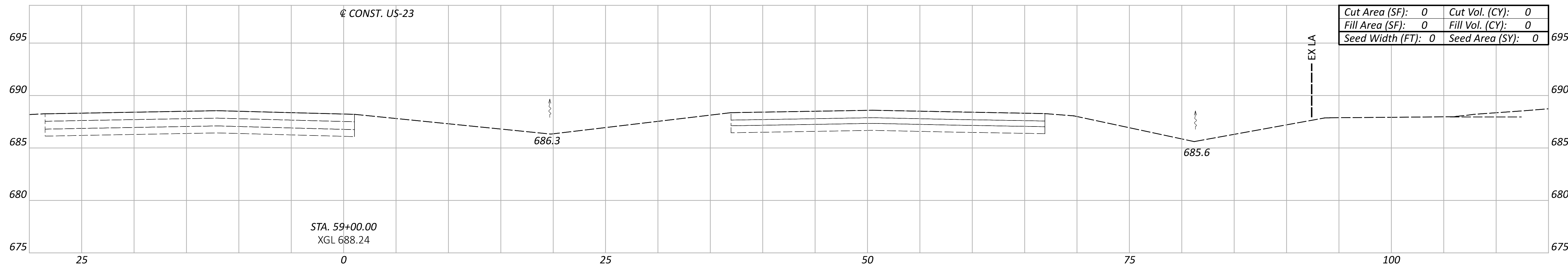
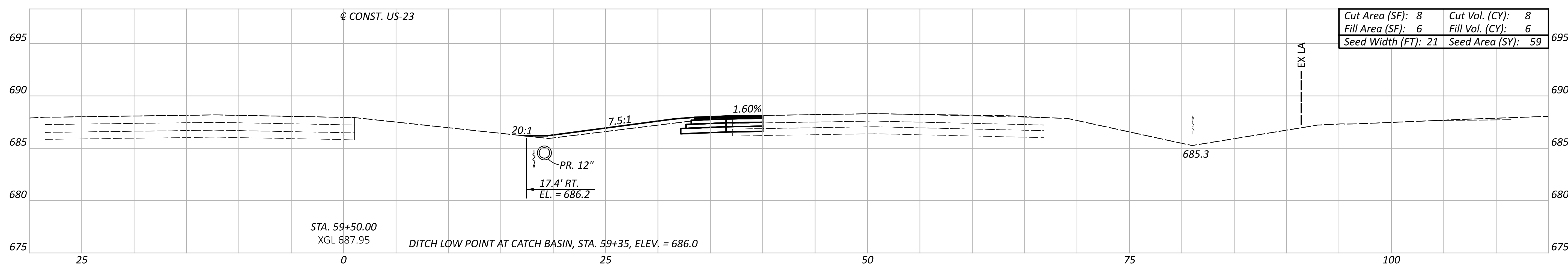
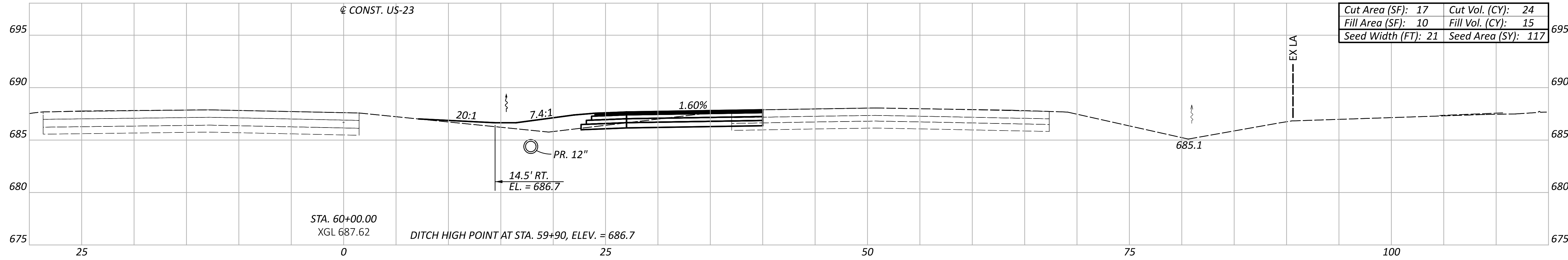
NOTES
 FOR ROADWAY SUBSUMMARY, SEE SHEET 12
 FOR PROJECT CONTROL, SEE SHEET 2
 FOR CROSS SECTIONS, SEE SHEETS 16 - 25
 FOR MEDIAN CROSSING DETAILS, SEE SHEET 26 - 27



PLAN AND PROFILE
 STA. 67+50.00 TO STA. 72+50.00

DESIGN AGENCY

 8350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4549
 DESIGNER
JAS
 REVIEWER
BBB 10-30-23
 PROJECT ID
114835
 SHEET TOTAL
 P.15 32

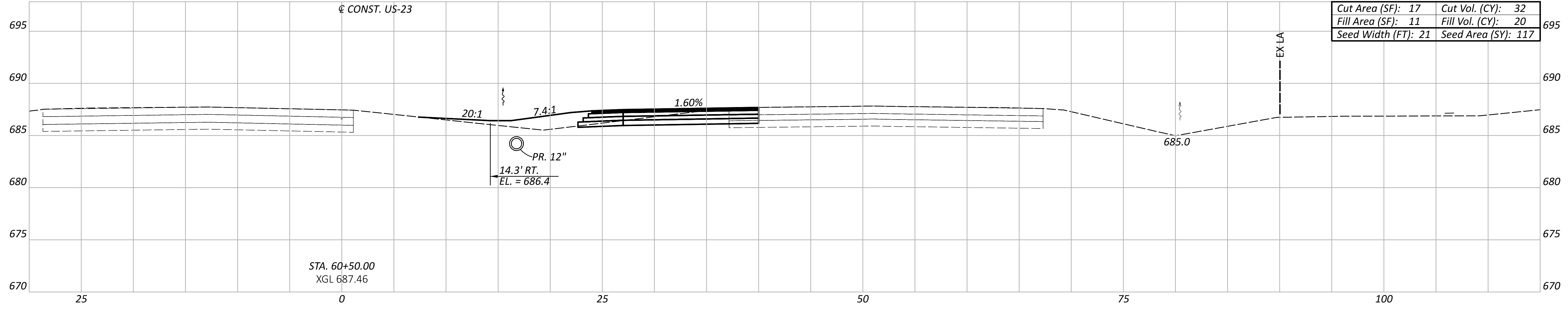
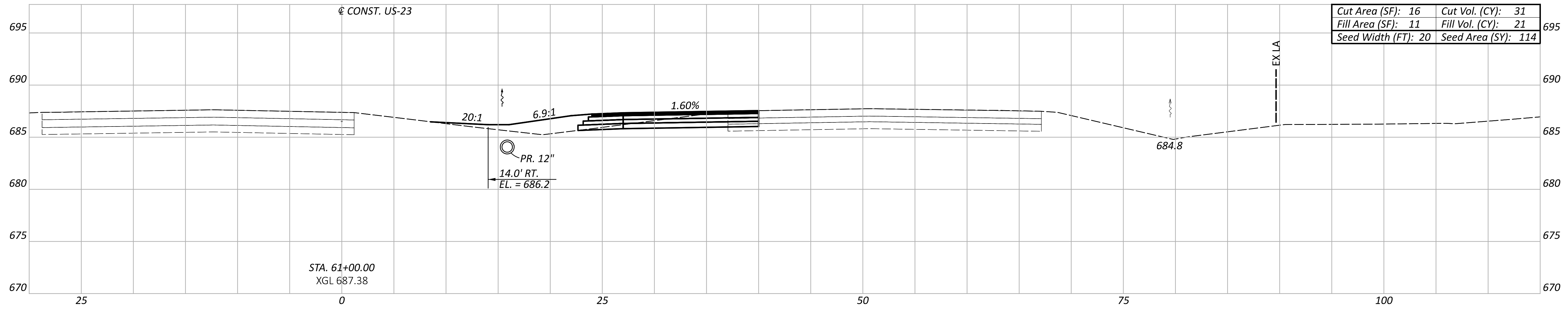
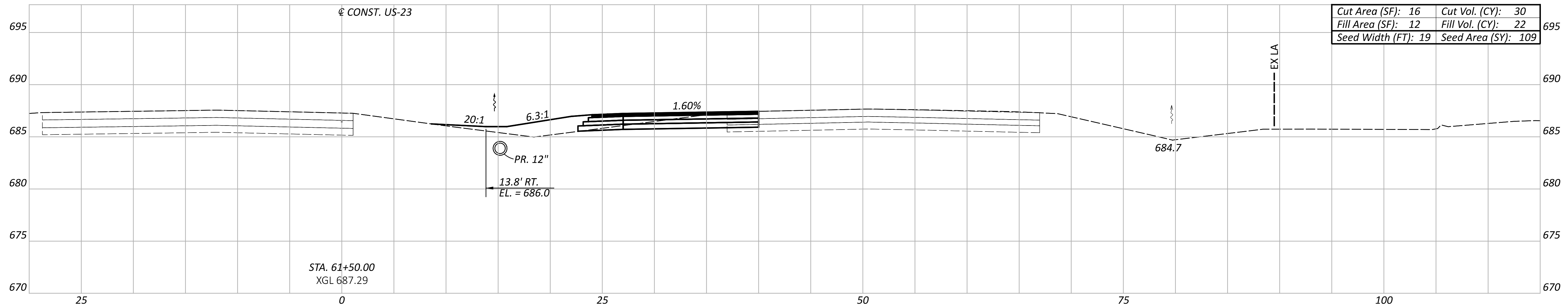


CROSS-SECTIONS - US-23
 STA. 59+00.00 TO STA. 60+00.00

Sheet Totals			114835
Seeding	Cut	Fill	SHEET TOTAL
176	32	21	P.16 32

DESIGN AGENCY

 350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4849
 DESIGNER
BBB
 REVIEWER
 SSK 10/02/23
 PROJECT ID
 114835



CROSS-SECTIONS - US-23
STA. 60+50.00 TO STA. 61+50.00

Sheet Totals			114835	
Seeding	Cut	Fill	SHEET	TOTAL
340	93	63	P.17	32

DESIGN AGENCY

350 PRESIDENTIAL GATEWAY
COLUMBUS, OHIO 43231
(614) 823-4849

DESIGNER

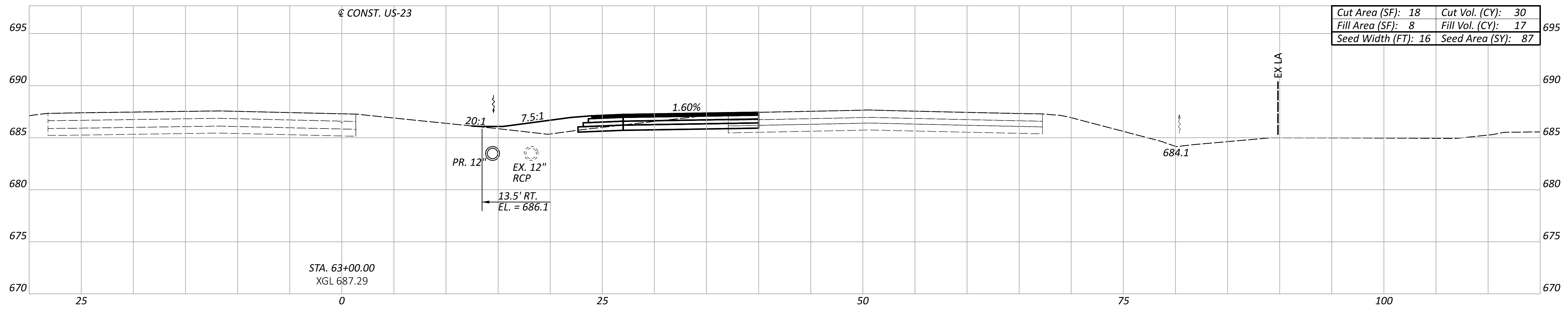
BBB

REVIEWER

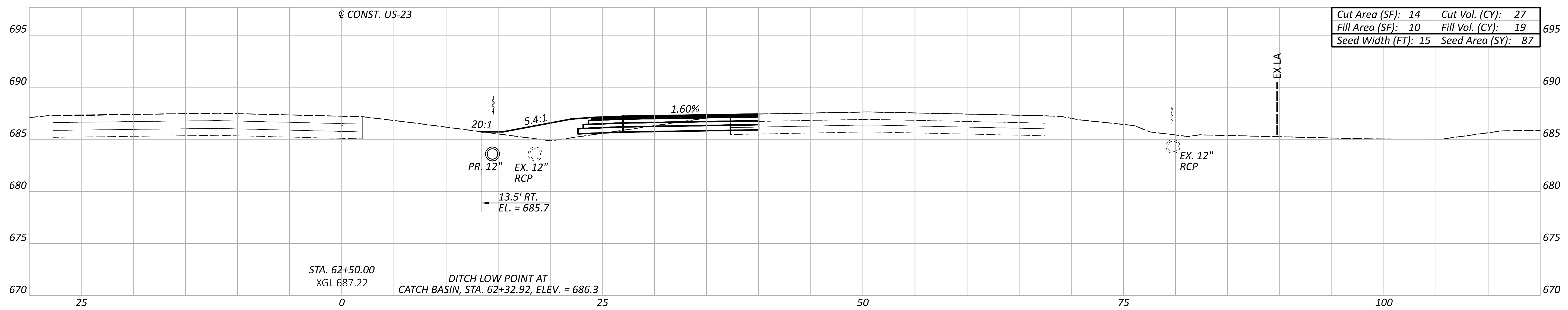
SSK 10/02/23

PROJECT ID

114835

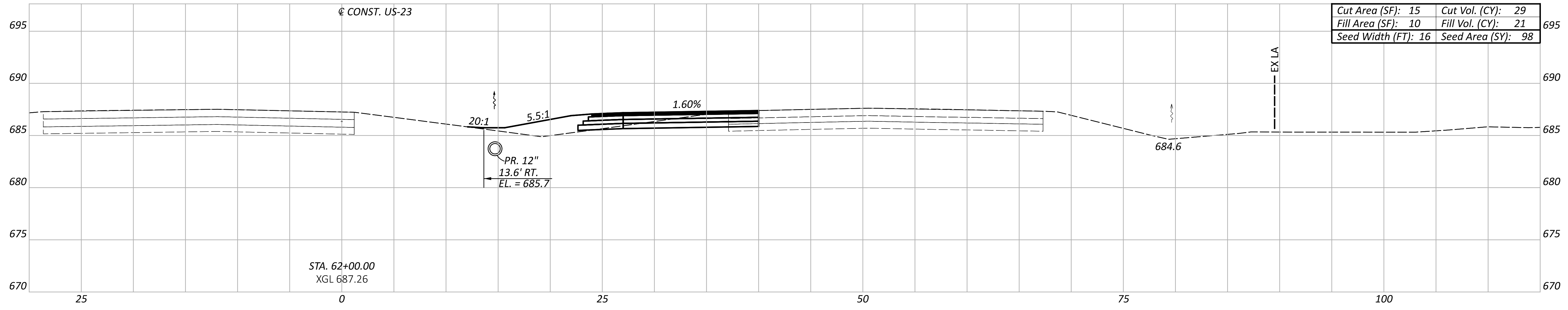


STA. 63+00.00
XGL 687.29



STA. 62+50.00
XGL 687.22

DITCH LOW POINT AT
CATCH BASIN, STA. 62+32.92, ELEV. = 686.3



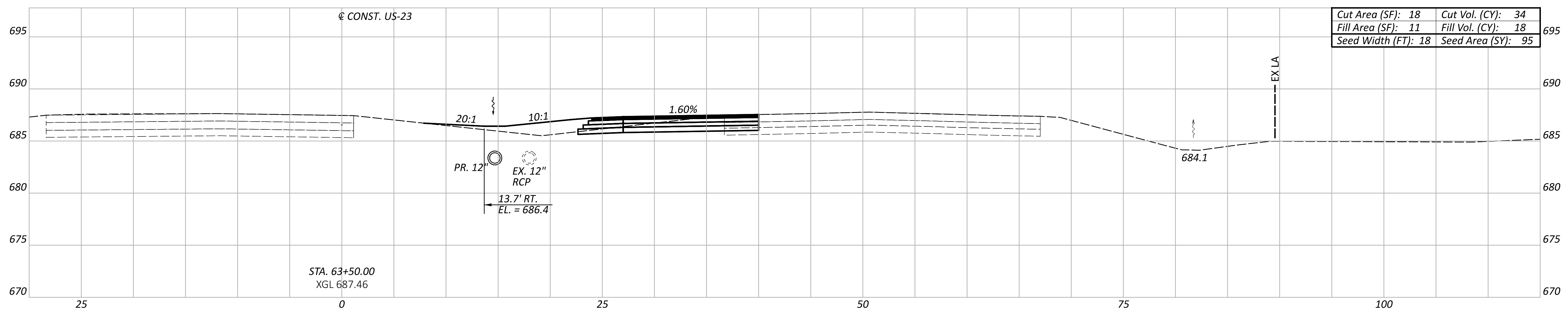
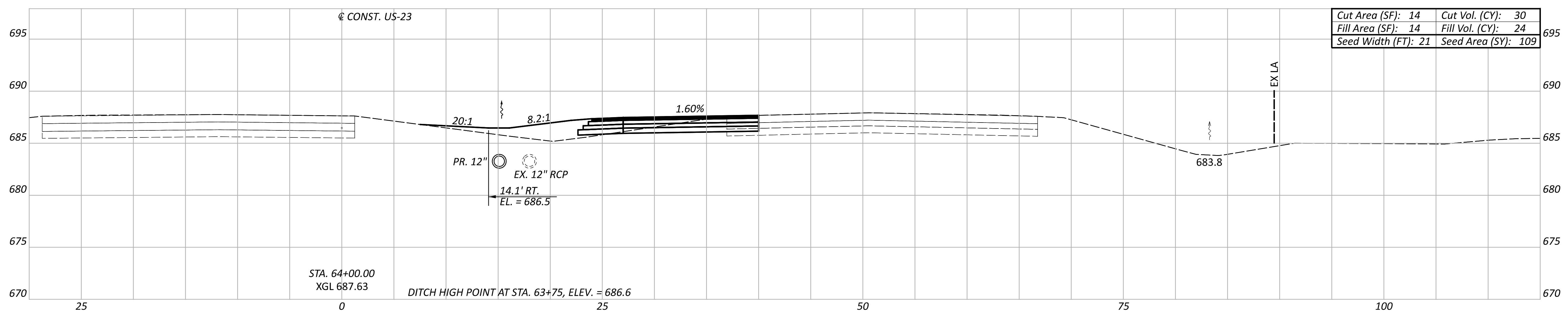
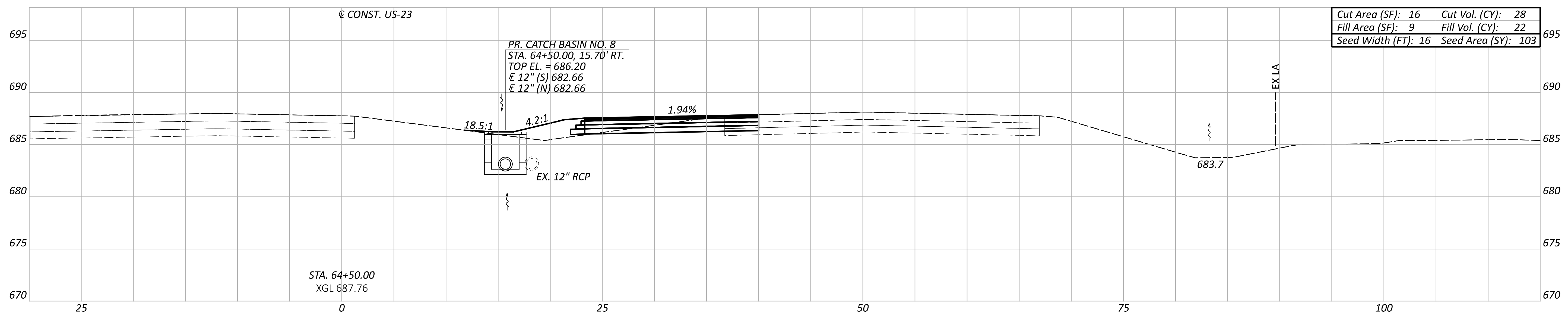
STA. 62+00.00
XGL 687.26

CROSS-SECTIONS - US-23
STA. 62+00.00 TO STA. 63+00.00

DESIGN AGENCY

 3550 PRESIDENTIAL GATEWAY
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Sheet Totals			114835
Seeding	Cut	Fill	TOTAL
272	86	57	P.18 32



CROSS-SECTIONS - US-23
 STA. 63+50.00 TO STA. 64+50.00

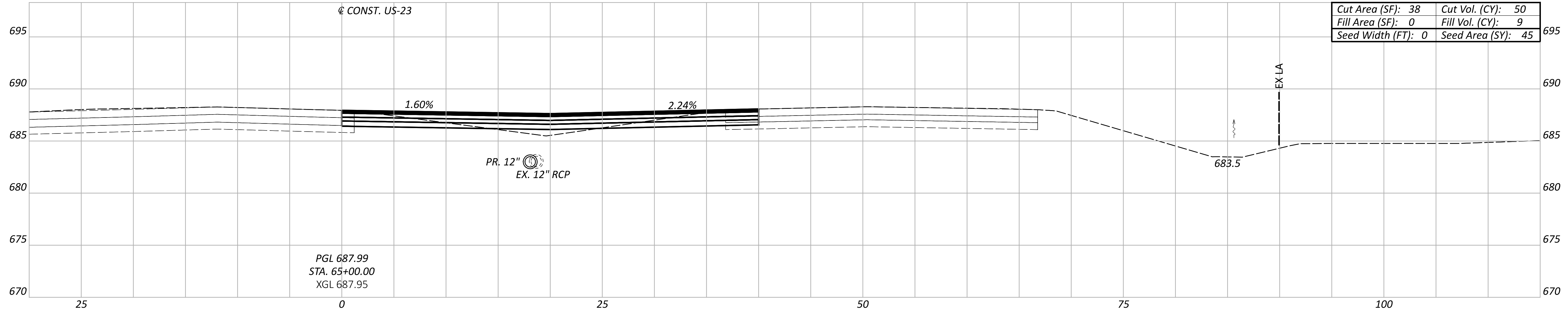
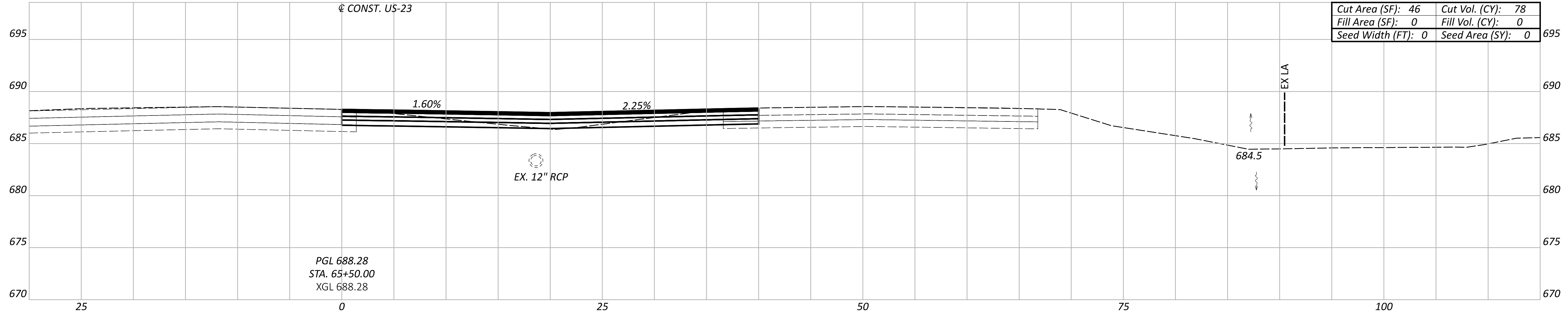
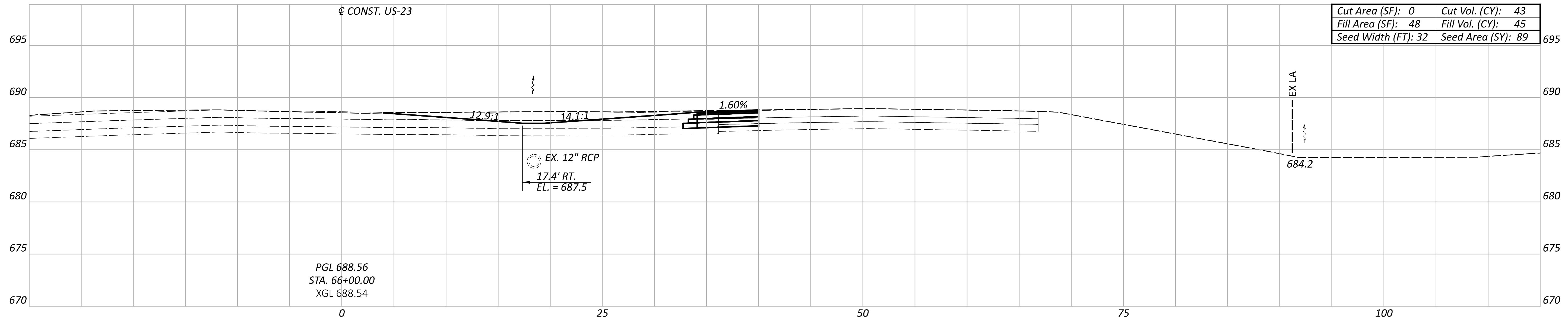
DESIGN AGENCY
Rii INTERNATIONAL
 350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4849

DESIGNER
BBB

REVIEWER
 SSK 10/02/23

PROJECT ID
 114835

Sheet Totals			114835
Seeding	Cut	Fill	TOTAL
307	92	64	P.19 32

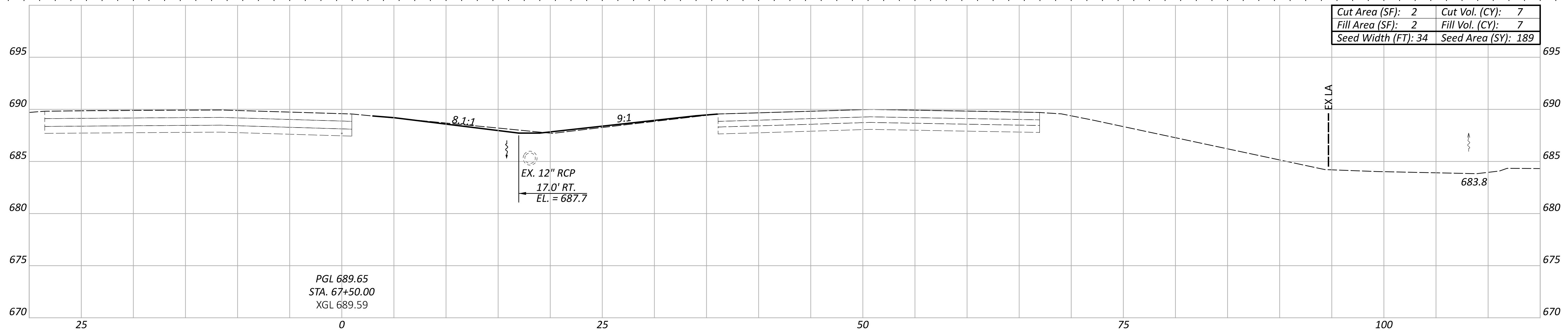


CROSS-SECTIONS - US-23
STA. 65+00.00 TO STA. 66+00.00

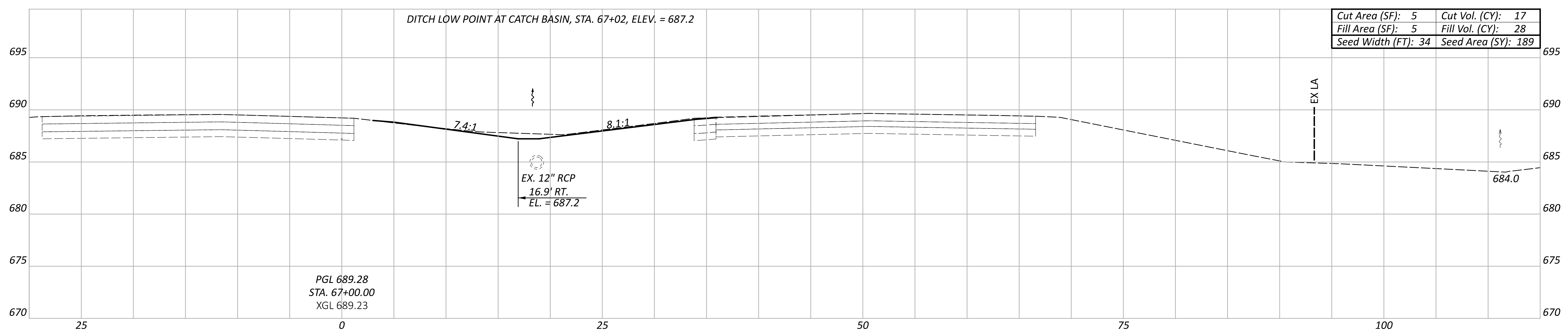
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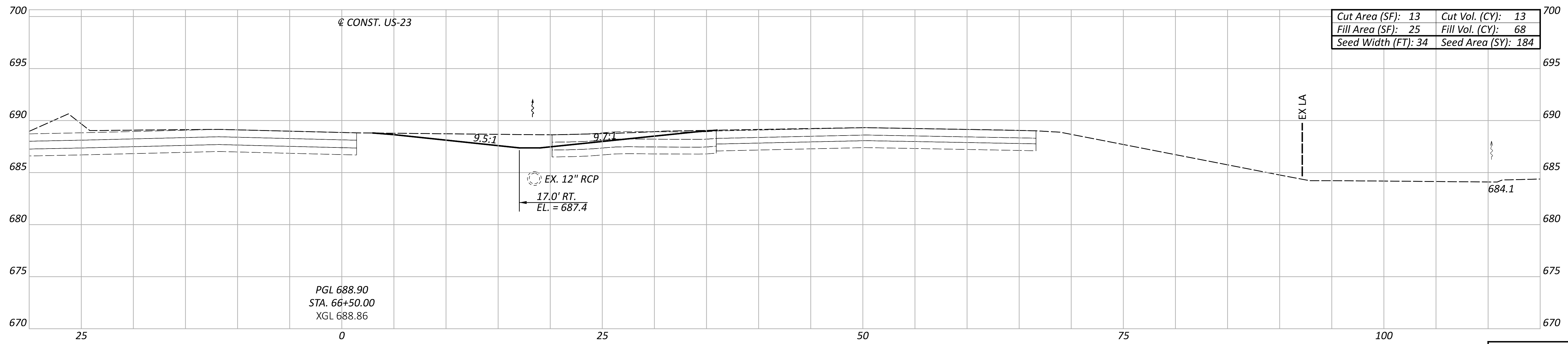
Sheet Totals			114835
Seeding	Cut	Fill	TOTAL
134	171	54	P.20 32



Cut Area (SF):	2	Cut Vol. (CY):	7
Fill Area (SF):	2	Fill Vol. (CY):	7
Seed Width (FT):	34	Seed Area (SY):	189



Cut Area (SF):	5	Cut Vol. (CY):	17
Fill Area (SF):	5	Fill Vol. (CY):	28
Seed Width (FT):	34	Seed Area (SY):	189



Cut Area (SF):	13	Cut Vol. (CY):	13
Fill Area (SF):	25	Fill Vol. (CY):	68
Seed Width (FT):	34	Seed Area (SY):	184

CROSS-SECTIONS - US-23
 STA. 66+50.00 TO STA. 67+50.00



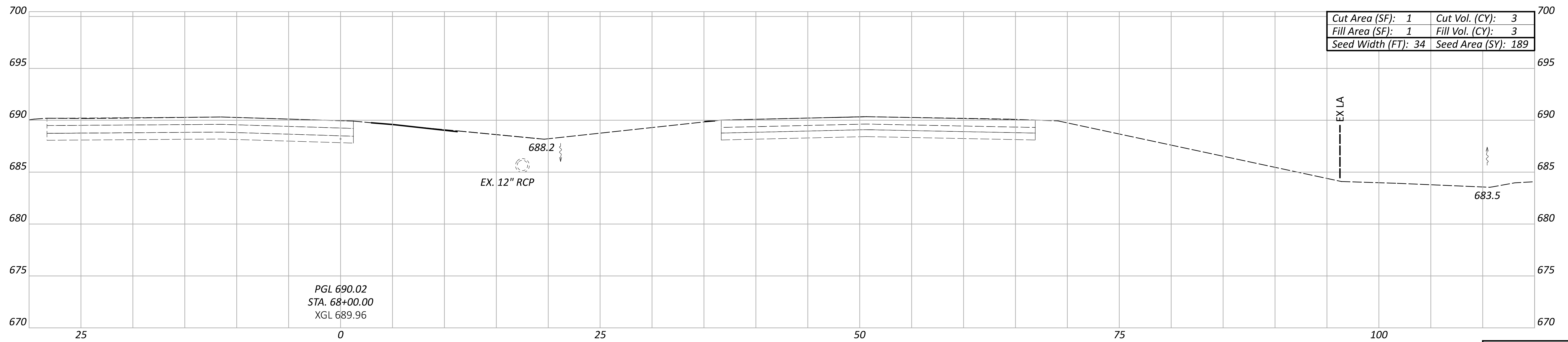
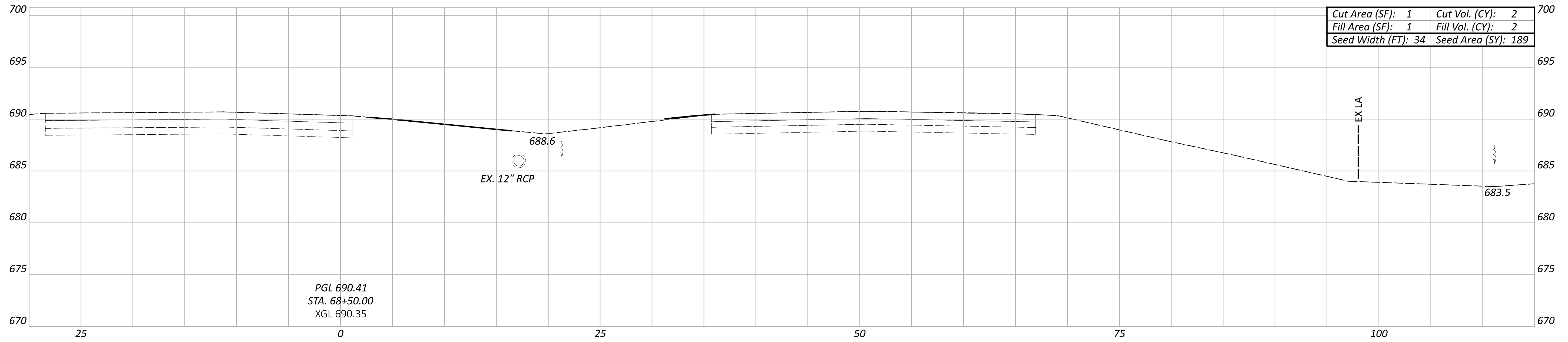
3550 PRESIDENTIAL GATEWAY
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PROJECT ID
 114835

Sheet Totals			114835
Seeding	Cut	Fill	SHEET TOTAL
562	37	103	P.21 32



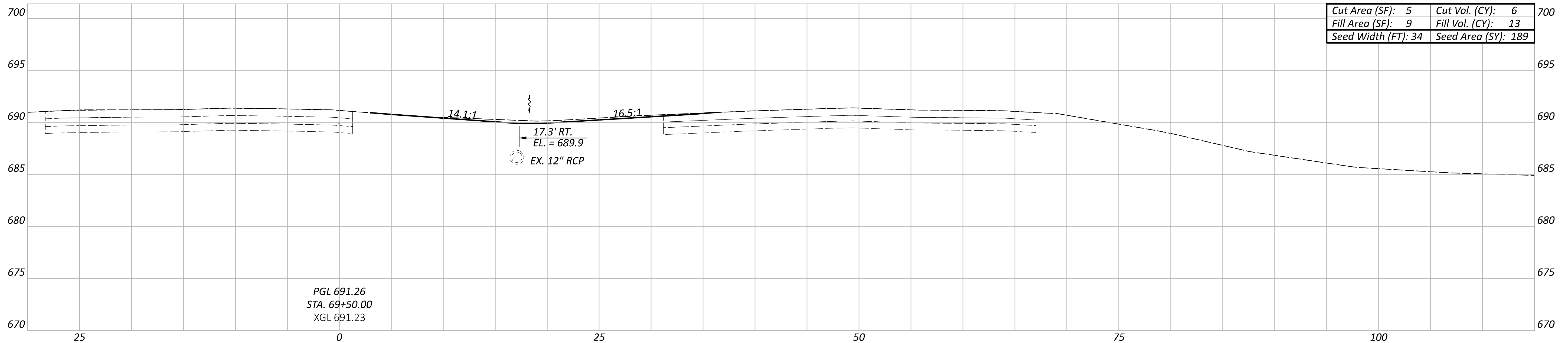
CROSS-SECTIONS - US-23
 STA. 68+00.00 TO STA. 68+50.00

Sheet Totals			114835
Seeding	Cut	Fill	TOTAL
378	5	5	P.22 32



DESIGNER
BBB
 REVIEWER
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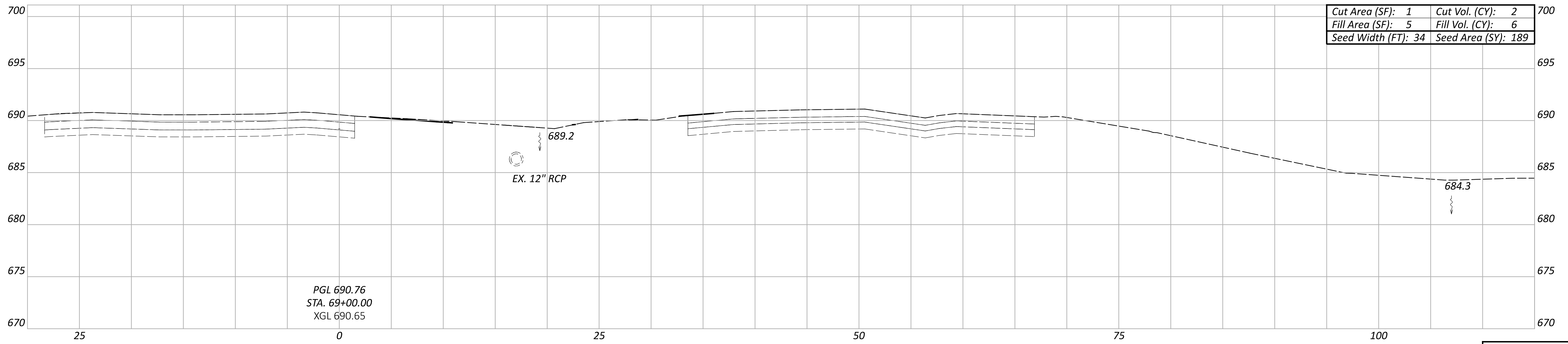
PROJECT ID
114835



PGL 691.26
 STA. 69+50.00
 XGL 691.23

17.3' RT.
 EL. = 689.9
 EX. 12" RCP

Cut Area (SF): 5	Cut Vol. (CY): 6
Fill Area (SF): 9	Fill Vol. (CY): 13
Seed Width (FT): 34	Seed Area (SY): 189



PGL 690.76
 STA. 69+00.00
 XGL 690.65

689.2
 EX. 12" RCP

Cut Area (SF): 1	Cut Vol. (CY): 2
Fill Area (SF): 5	Fill Vol. (CY): 6
Seed Width (FT): 34	Seed Area (SY): 189

Sheet Totals			114835
Seeding	Cut	Fill	TOTAL
378	8	19	32

CROSS-SECTIONS - US-23
 STA. 69+00.00 TO STA. 69+50.00



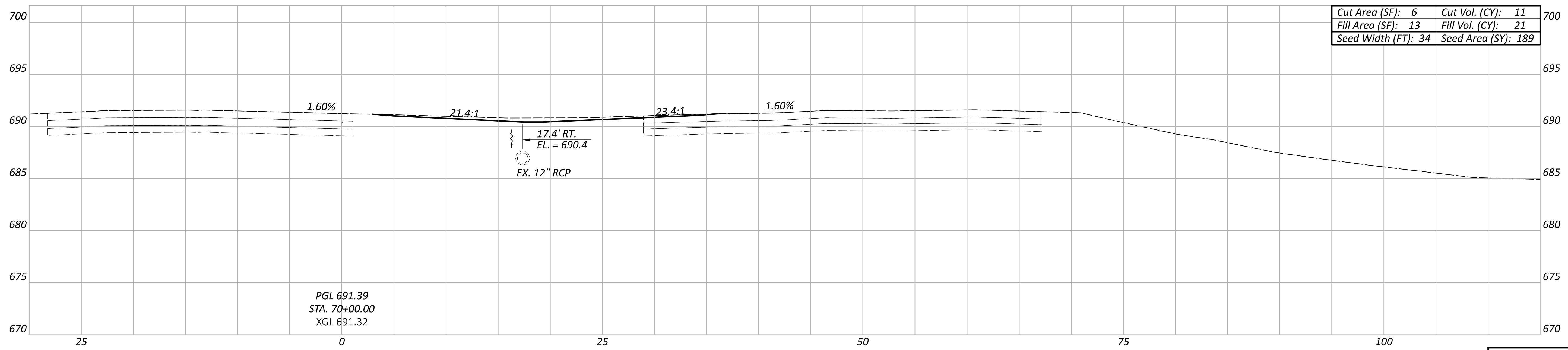
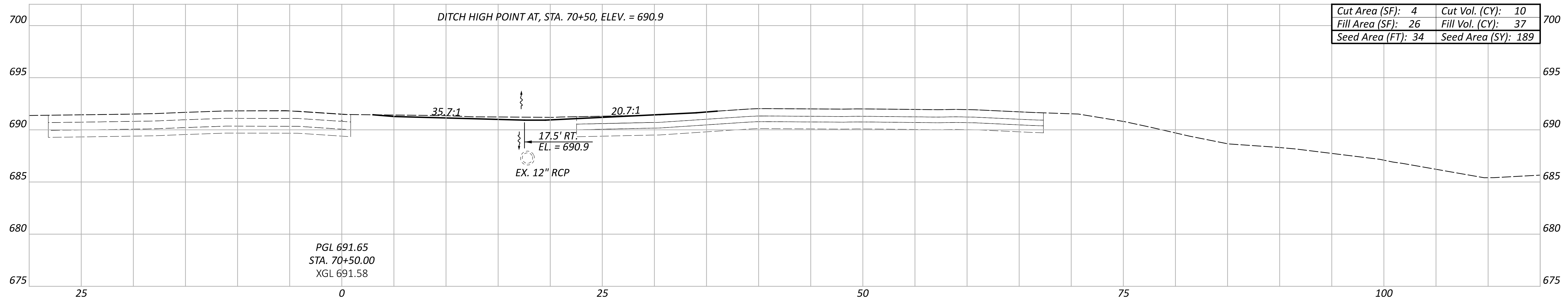
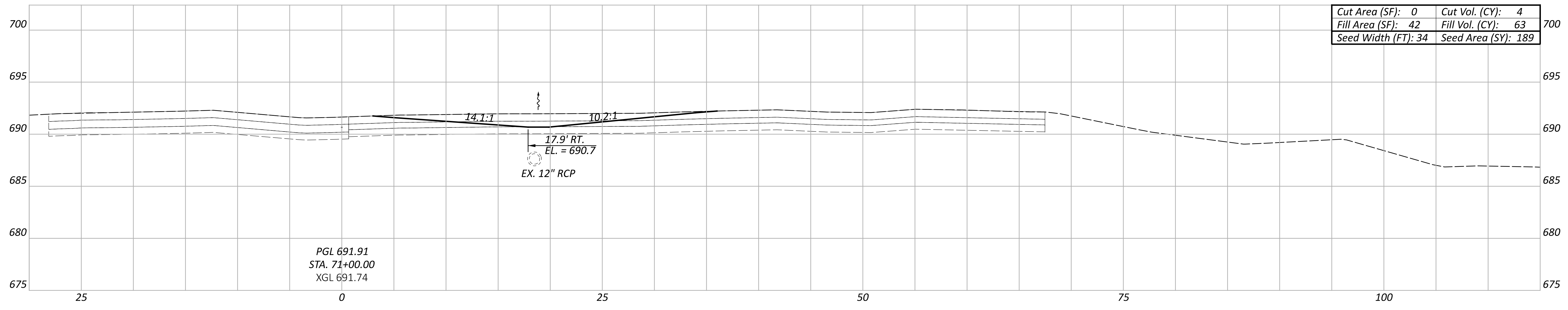
3550 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
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DESIGNER
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REVIEWER
 SSK 10/30/23

PROJECT ID
 114835

SHEET TOTAL
 P.23 32



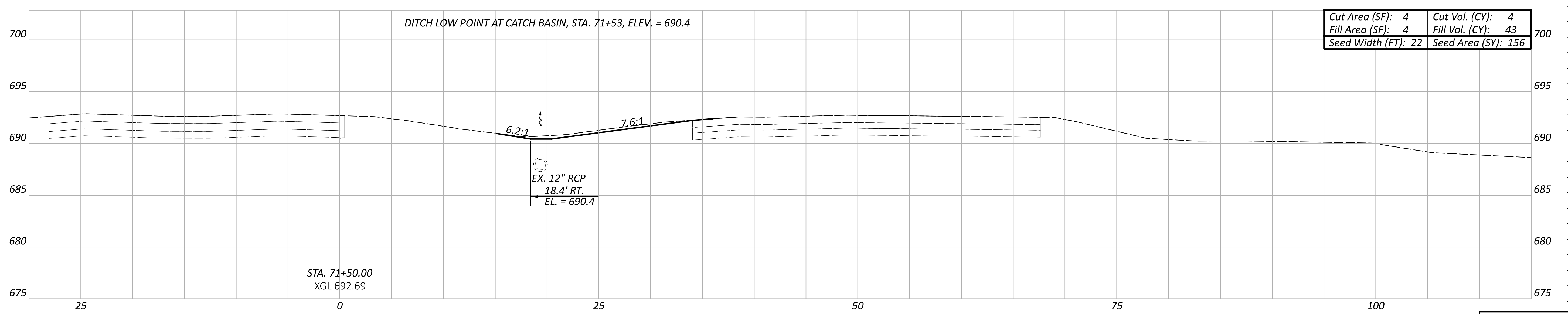
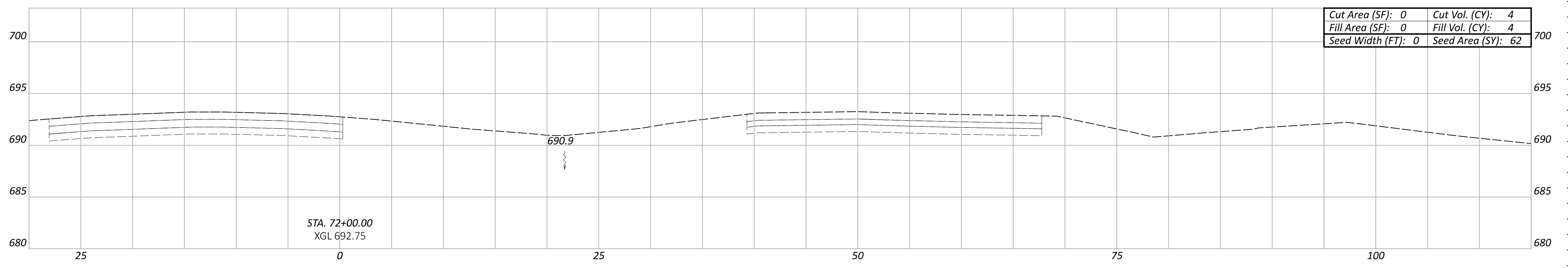
CROSS-SECTIONS - US-23
 STA. 70+00.00 TO STA. 71+00.00

Sheet Totals			114835
Seeding	Cut	Fill	TOTAL
567	25	121	P.24 32

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 PROJECT ID
114835

SHEET NO.	STATION RANGE		203	203	659
			EXCAVATION	EMBANKMENT	SEEDING & MULCHING
			CY	CY	CY
16	59+00.00	60+00.00	32	21	176
17	60+50.00	61+50.00	93	63	340
18	62+00.00	63+00.00	86	57	272
19	63+50.00	64+50.00	92	64	307
20	65+00.00	66+00.00	171	54	134
21	66+50.00	67+50.00	37	103	562
22	68+00.00	68+50.00	5	5	378
23	69+00.00	69+50.00	8	19	378
24	70+00.00	71+00.00	25	121	567
25	71+50.00	72+00.00	8	47	218
TOTALS CARRIED TO GENERAL SUMMARY			557	554	3,332



CROSS-SECTIONS - US-23
 STA. 71+50.00 TO STA. 72+00.00



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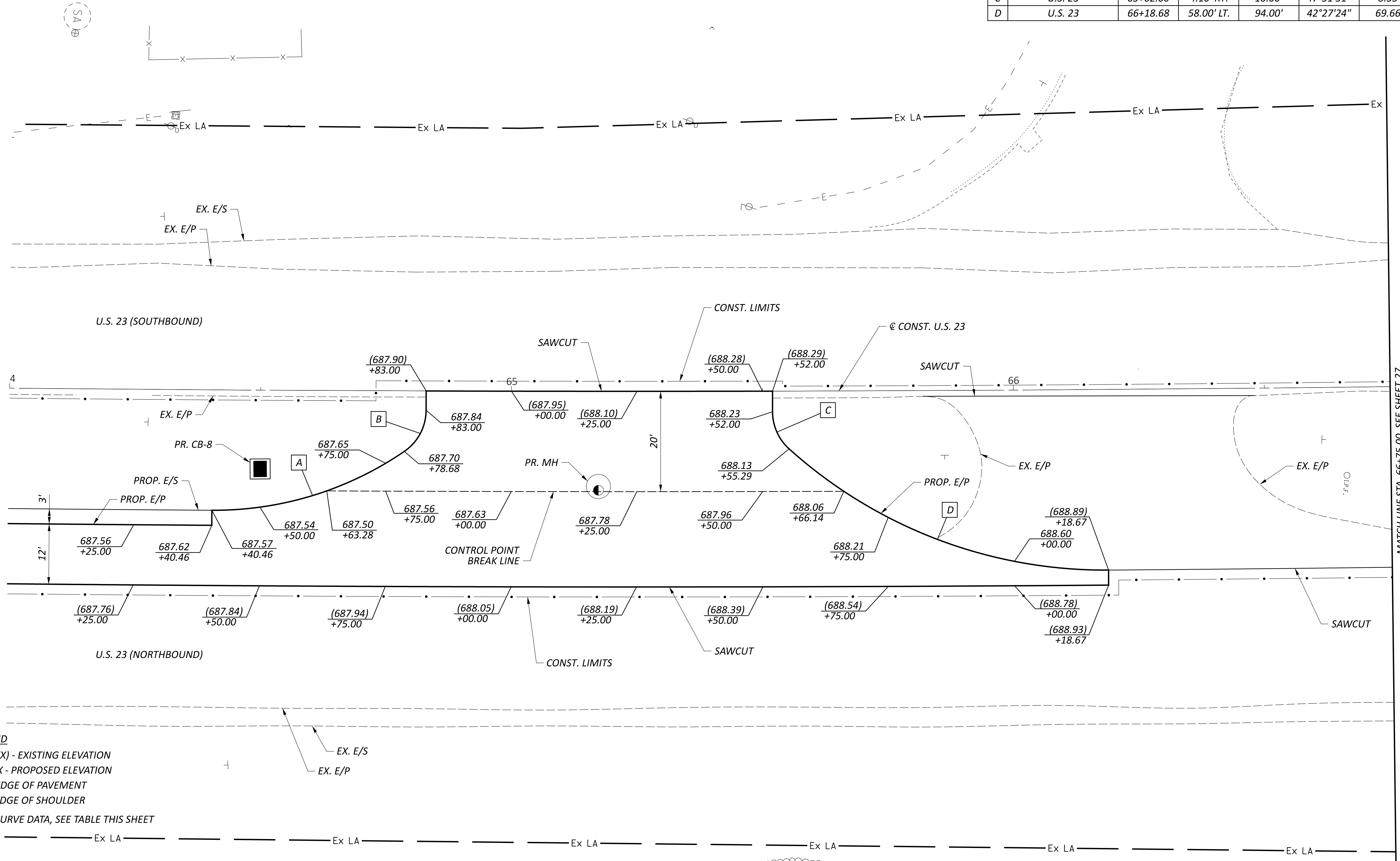
DESIGNER
BBB

REVIEWER
 SSK 10/30/23

PROJECT ID
 114835

Sheet Totals			114835
Seeding	Cut	Fill	SHEET TOTAL
218	8	47	P.25 32

CURVE DATA						
	¢ CONST.	STATION	OFFSET	RADIUS	DELTA	LENGTH
A	U.S. 23	64+40.46	43.00' LT.	67.00'	34°49'31"	40.72'
B	U.S. 23	64+73.00	3.83' RT.	10.00'	55°20'10"	9.66'
C	U.S. 23	65+62.00	4.10' RT.	10.00'	47°51'51"	8.35'
D	U.S. 23	66+18.68	58.00' LT.	94.00'	42°27'24"	69.66'



LEGEND
 (XXX.XX) - EXISTING ELEVATION
 XXX.XX - PROPOSED ELEVATION
 E/P - EDGE OF PAVEMENT
 E/S - EDGE OF SHOULDER
 [A] - CURVE DATA, SEE TABLE THIS SHEET

PAVEMENT DETAILS - U.S. 23

DESIGN AGENCY

 6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4549
 DESIGNER
 KSJ
 REVIEWER
 BBB 10/02/23
 PROJECT ID
 114835
 SHEET TOTAL
 P.26 32

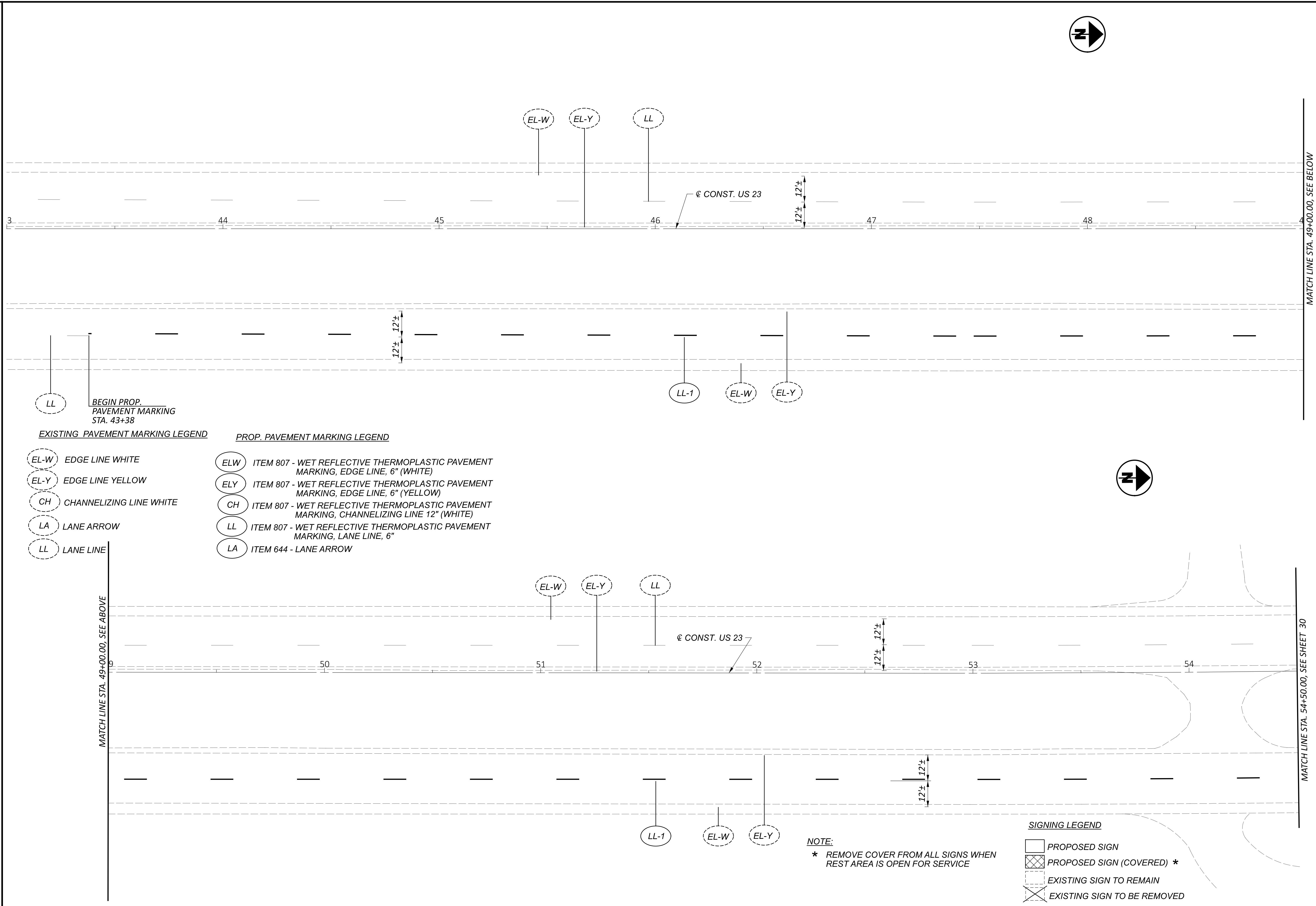
PAVEMENT MARKING ESTIMATED QUANTITIES

REF NO.	STATION TO STATION			SIDE	621		644		807		807		850	
					RPM	RAISED PAVEMENT MARKER REMOVED	LANE ARROW	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)		
					EACH	EACH	EACH	MILE	MILE	FT	MILE	FT		
LL-1	43+38.00	TO	54+50.00	RT	14	14				0.21		0.21		
LL-2	54+50.00	TO	65+50.00	RT	14	14				0.21		0.21		
LL-3	59+25.00	TO	65+50.00	LT	8	8				0.12		0.12		
LL-4	65+50.00	TO	72+00.00	RT	8	8				0.12		0.12		
LL-5	65+50.00	TO	76+50.00	LT	14	14				0.21		0.21		
LL-6	76+50.00	TO	86+70.00	LT	13	13				0.19		0.19		
ELY-1	59+25.00	TO	64+84.00	RT				0.11				0.11		
ELY-2	64+75.00	TO	64+84.00	CL				0.01				0.01		
ELY-3	65+50.00	TO	65+50.00	RT				0.01				0.01		
ELY-4	65+50.00	TO	72+00.00	RT				0.13				0.13		
ELY-5	65+50.00	TO	72+00.00	CL				0.12				0.12		
CH-1	59+99.00	TO	64+90.00	RT						491		491		
LA-1			60+11.00	RT			1							
LA-2			60+98.00	RT			1							
LA-3			61+86.00	RT			1							
LA-4			62+74.00	RT			1							
LA-5			63+62.00	RT			1							
LA-6			64+50.00	RT			1							
TOTALS CARRIED TO GENERAL SUMMARY					71	71	6	0.38	1.06	491	1.44	491		

SIGNING ESTIMATED QUANTITIES

REF NO.	STATION	SIGN CODE	SIGN SIZE	SIDE	630		630		630	
					GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN POST REFLECTOR	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
					FT	EACH	SF	EACH	EACH	
R-1	64+45.00	EXIST	EXIST	RT				1	1	
R-2	64+44.00	EXIST	EXIST	RT				1	1	
R-3	64+25.00	EXIST	EXIST	LT & RT				2	2	
R-4	65+86.00	EXIST	EXIST	RT				1	1	
R-5	66+61.00	EXIST	EXIST	RT				1	1	
R-6	71+25.00	EXIST	EXIST	RT				2	2	
S-1	59+40.00	R3-H8ca-48	30x48	RT	26		12.00			
S-2	62+50.00	W3-5-36 (2)	36x36	LT & RT	26		18.00			
S-3	63+89.00	R5-1a-42 (2)	30x42	LT & RT	52	4	17.50			
S-4	64+50.00	D5-5-42 (2)	42x48	LT & RT	52		28.00			
S-5	65+30.00	R6-1L-54	54x18	RT	26		6.80			
S-6	66+54.00	D5-5-42 (2)	42x48	LT & RT	52		28.00			
S-7	67+00.00	R5-1a-42 (2)	30x42	LT & RT	52	4	17.50			
TOTALS CARRIED TO GENERAL SUMMARY					286	8	127.80	8	8	





EXISTING PAVEMENT MARKING LEGEND

- EL-W EDGE LINE WHITE
- EL-Y EDGE LINE YELLOW
- CH CHANNELIZING LINE WHITE
- LA LANE ARROW
- LL LANE LINE

PROP. PAVEMENT MARKING LEGEND

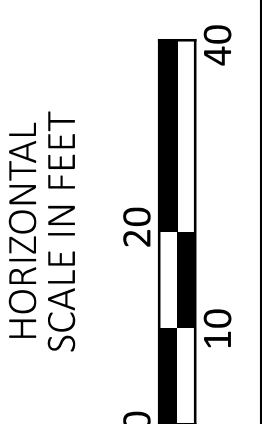
- ELW ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (WHITE)
- ELY ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW)
- CH ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE 12" (WHITE)
- LL ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"
- LA ITEM 644 - LANE ARROW

NOTE:
 * REMOVE COVER FROM ALL SIGNS WHEN REST AREA IS OPEN FOR SERVICE

- SIGNING LEGEND
- PROPOSED SIGN
 - PROPOSED SIGN (COVERED) *
 - EXISTING SIGN TO REMAIN
 - EXISTING SIGN TO BE REMOVED

MATCH LINE STA. 49+00.00, SEE BELOW

MATCH LINE STA. 54+50.00, SEE SHEET 30



SIGNING AND PAVEMENT MARKING PLAN
 STA. 43+00.00 TO STA. 54+50.00

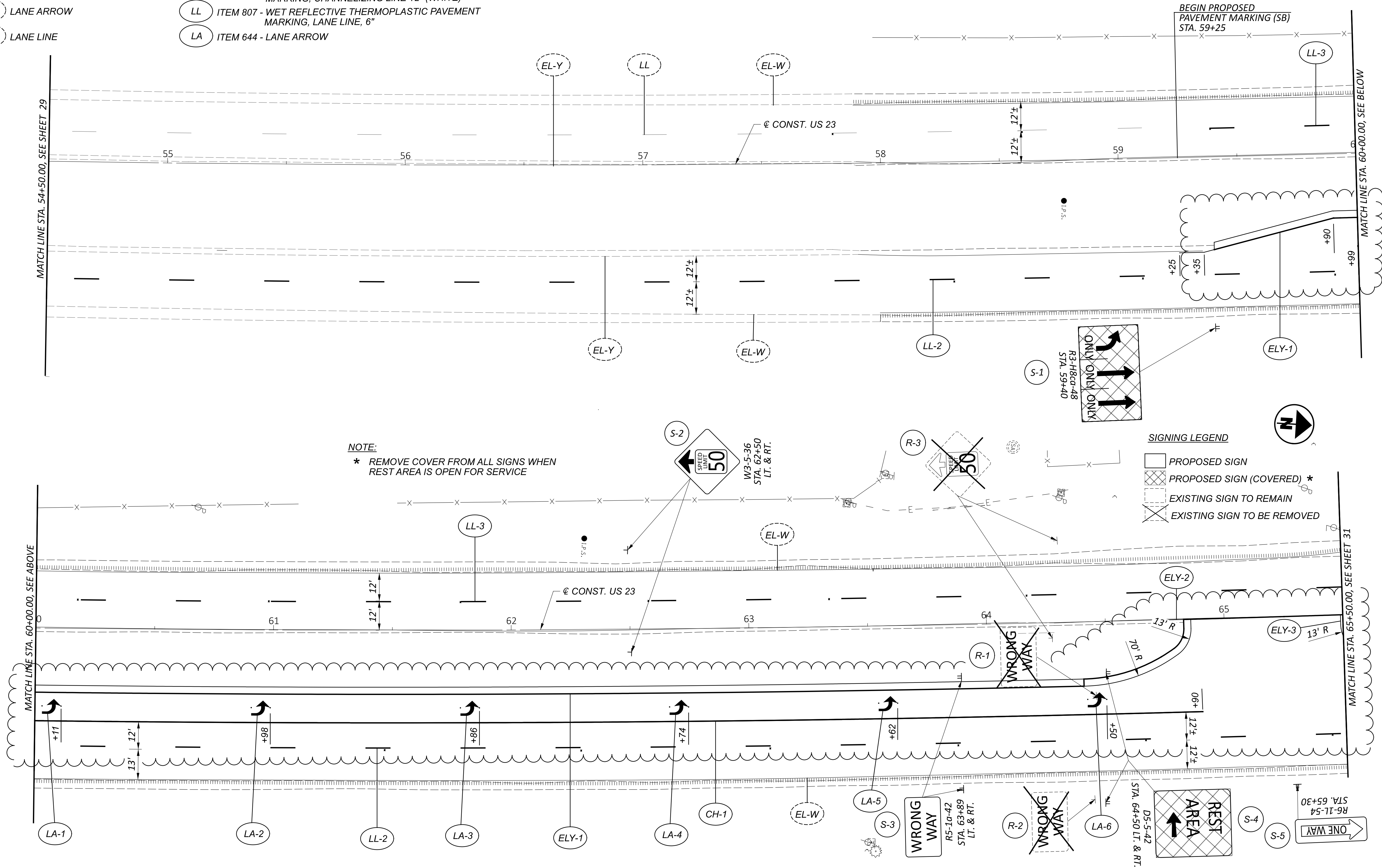
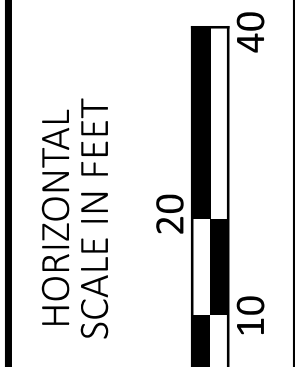
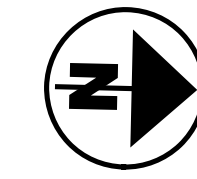
DESIGN AGENCY	
6350 PRESIDENTIAL GATEWAY COLUMBUS, OHIO 43231 (614) 823-4549	
DESIGNER	JAS
REVIEWER	SSK
DATE	10/02/23
PROJECT ID	114835
SHEET	TOTAL
P.29	32

EXISTING PAVEMENT MARKING LEGEND

- (EL-W) EDGE LINE WHITE
- (EL-Y) EDGE LINE YELLOW
- (CH) CHANNELIZING LINE WHITE
- (LA) LANE ARROW
- (LA) LANE LINE

PROP. PAVEMENT MARKING LEGEND

- (ELW) ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (WHITE)
- (ELY) ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW)
- (CH) ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE 12" (WHITE)
- (LL) ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"
- (LA) ITEM 644 - LANE ARROW



NOTE:
 * REMOVE COVER FROM ALL SIGNS WHEN REST AREA IS OPEN FOR SERVICE

- SIGNING LEGEND
- [] PROPOSED SIGN
 - [X] PROPOSED SIGN (COVERED) *
 - [] EXISTING SIGN TO REMAIN
 - [X] EXISTING SIGN TO BE REMOVED

SIGNING AND PAVEMENT MARKING PLAN
 STA. 54+50.00 TO STA. 65+50.00

DESIGN AGENCY

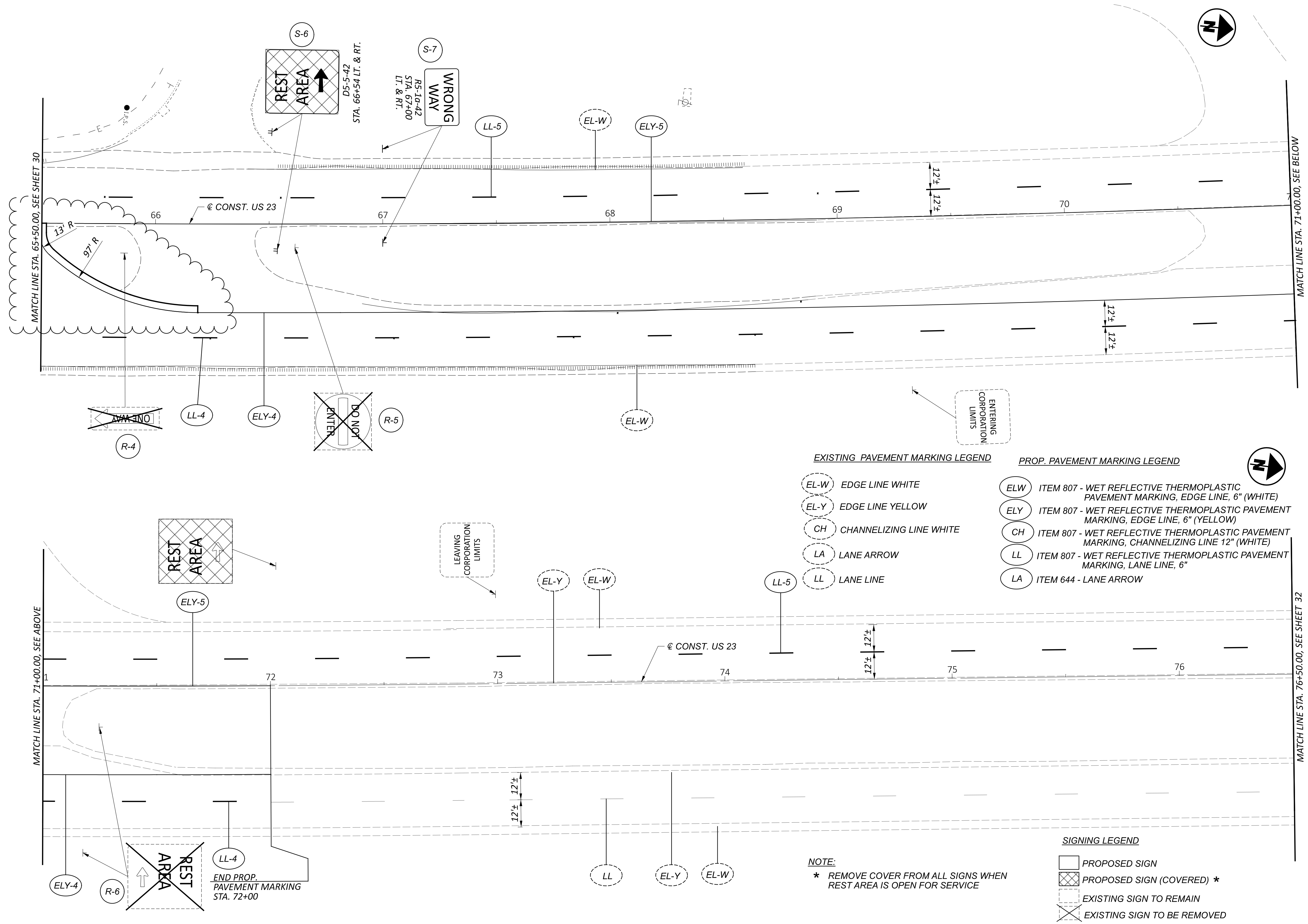
 6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4549

DESIGNER
 JAS

REVIEWER
 SSK 10/02/23

PROJECT ID
 114835

SHEET TOTAL
 P.30 32

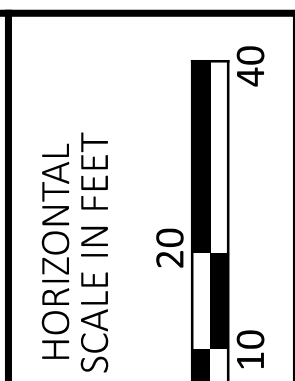


EXISTING PAVEMENT MARKING LEGEND		PROP. PAVEMENT MARKING LEGEND	
(EL-W)	EDGE LINE WHITE	(ELW)	ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (WHITE)
(EL-Y)	EDGE LINE YELLOW	(ELY)	ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW)
(CH)	CHANNELIZING LINE WHITE	(CH)	ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE 12" (WHITE)
(LA)	LANE ARROW	(LL)	ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"
(LL)	LANE LINE	(LA)	ITEM 644 - LANE ARROW

SIGNING LEGEND

[Square]	PROPOSED SIGN
[Square with X]	PROPOSED SIGN (COVERED) *
[Dashed Square]	EXISTING SIGN TO REMAIN
[Crossed Square]	EXISTING SIGN TO BE REMOVED

NOTE:
 * REMOVE COVER FROM ALL SIGNS WHEN REST AREA IS OPEN FOR SERVICE



SIGNING AND PAVEMENT MARKING PLAN
 STA. 65+50.00 TO STA. 76+50.00

DESIGN AGENCY

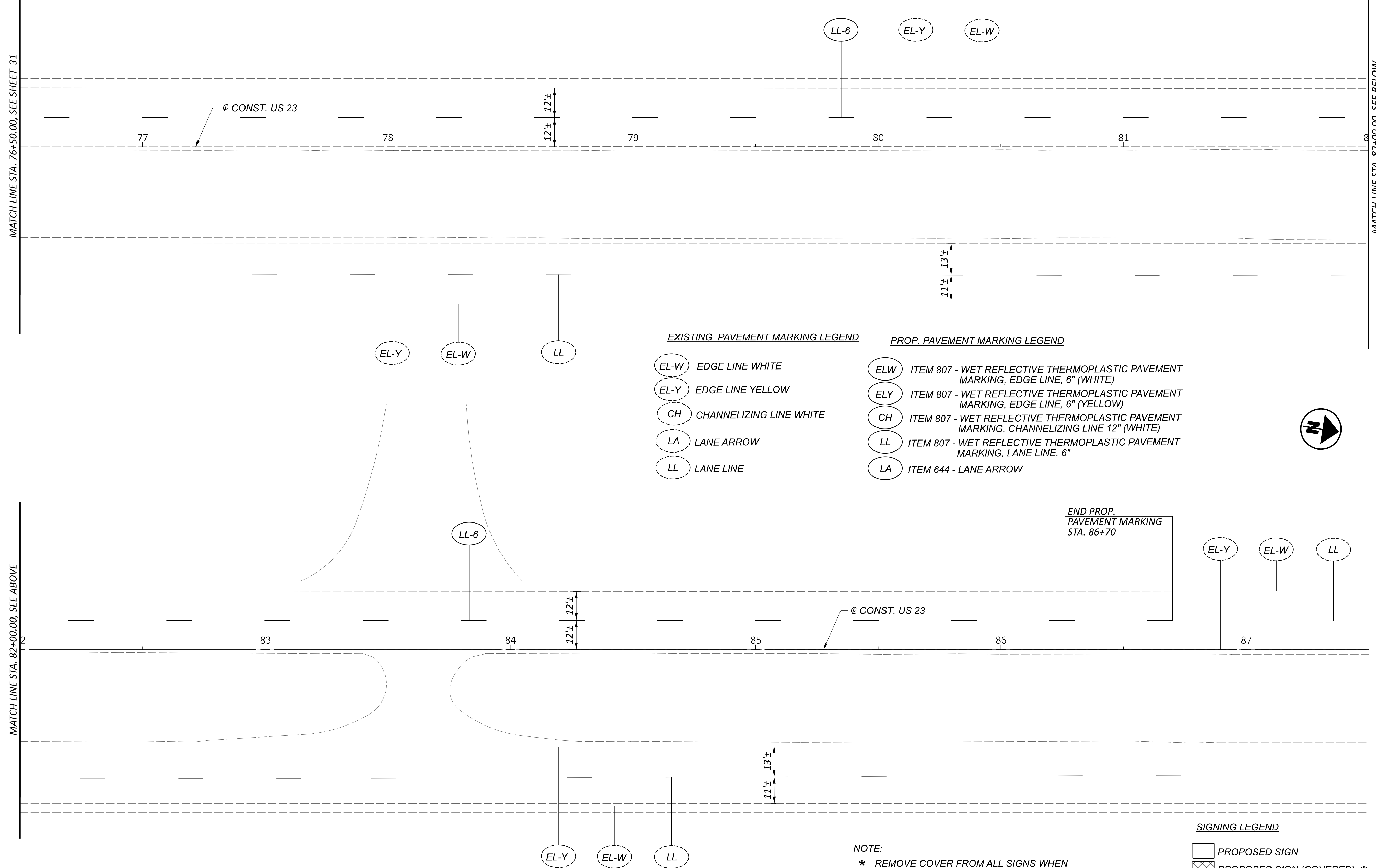
 6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 823-4549

DESIGNER
 JAS

REVIEWER
 SSK 10/02/23

PROJECT ID
 114835

SHEET TOTAL
 P.31 32



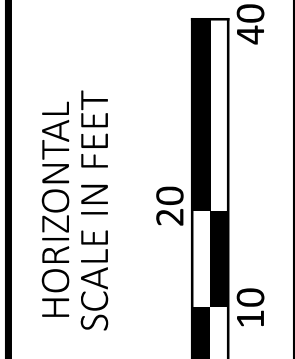
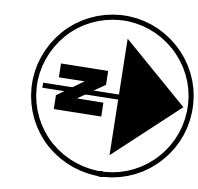
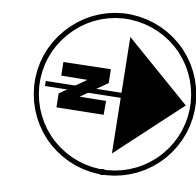
<u>EXISTING PAVEMENT MARKING LEGEND</u>		<u>PROP. PAVEMENT MARKING LEGEND</u>	
	EDGE LINE WHITE		ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (WHITE)
	EDGE LINE YELLOW		ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW)
	CHANNELIZING LINE WHITE		ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE 12" (WHITE)
	LANE ARROW		ITEM 807 - WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"
	LANE LINE		ITEM 644 - LANE ARROW

END PROP. PAVEMENT MARKING STA. 86+70

NOTE:
 * REMOVE COVER FROM ALL SIGNS WHEN REST AREA IS OPEN FOR SERVICE

SIGNING LEGEND

	PROPOSED SIGN
	PROPOSED SIGN (COVERED) *
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED



SIGNING AND PAVEMENT MARKING PLAN
 STA. 76+50.00 TO STA. 87+50.00

DESIGN AGENCY	
6350 PRESIDENTIAL GATEWAY COLUMBUS, OHIO 43231 (614) 823-4549	
DESIGNER	JAS
REVIEWER	SSK
DATE	10/02/23
PROJECT ID	114835
SHEET	TOTAL
P.32	32