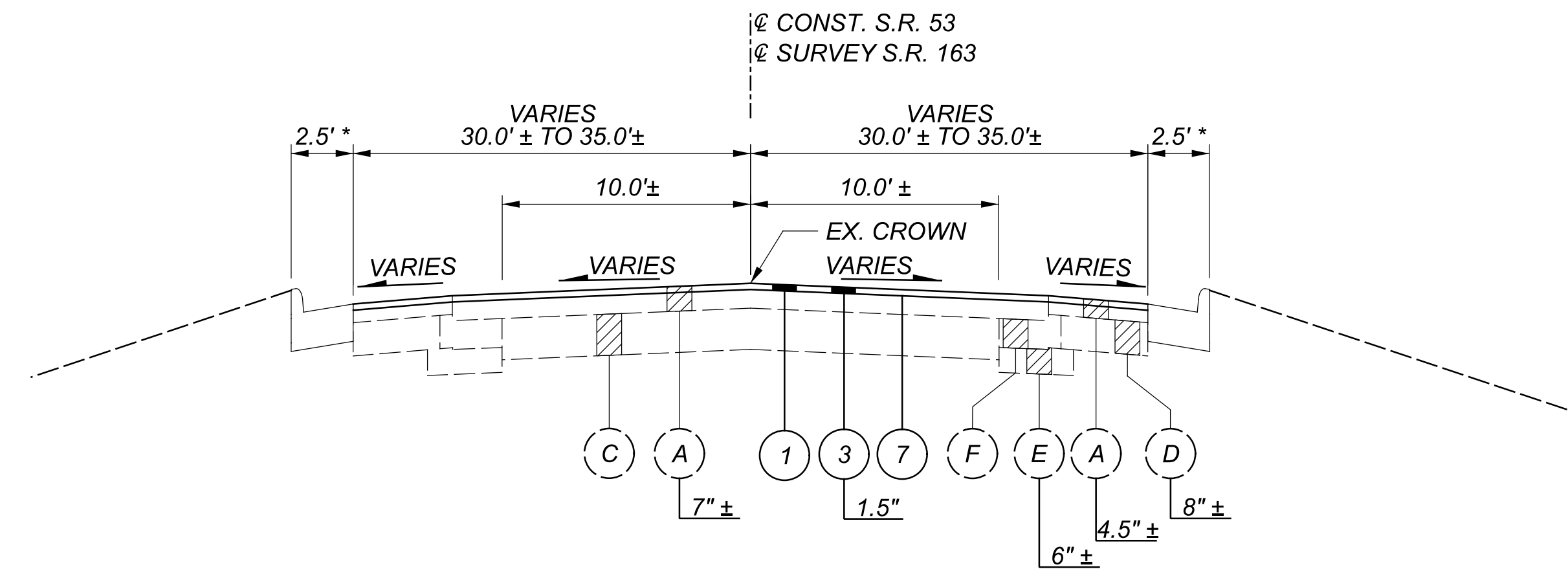


RESURFACING SECTION - SHOULDER

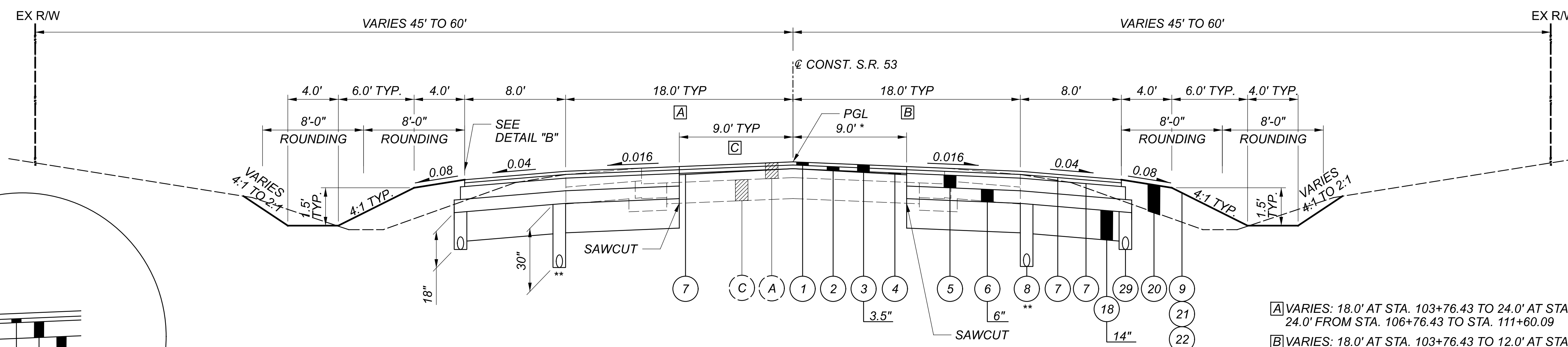
STA. 1561+57.90 TO STA. 1566+00.00 (SR 163)
 STA. 1575+42.70 TO STA. 1584+48.12 (SR 163)
 STA. 119+08.50 TO STA. 124+28.78 (SR 53)



RESURFACING SECTION - CURB AND GUTTER

STA. 1566+00.00 TO STA. 1575+42.70 (SR 163)
 STA. 111+60.09 TO STA. 119+08.50 (SR 53)

* WHERE ASPHALT OVERLAY OF GUTTER PAN IS PRESENT, MILL AND RESURFACE GUTTER PAN

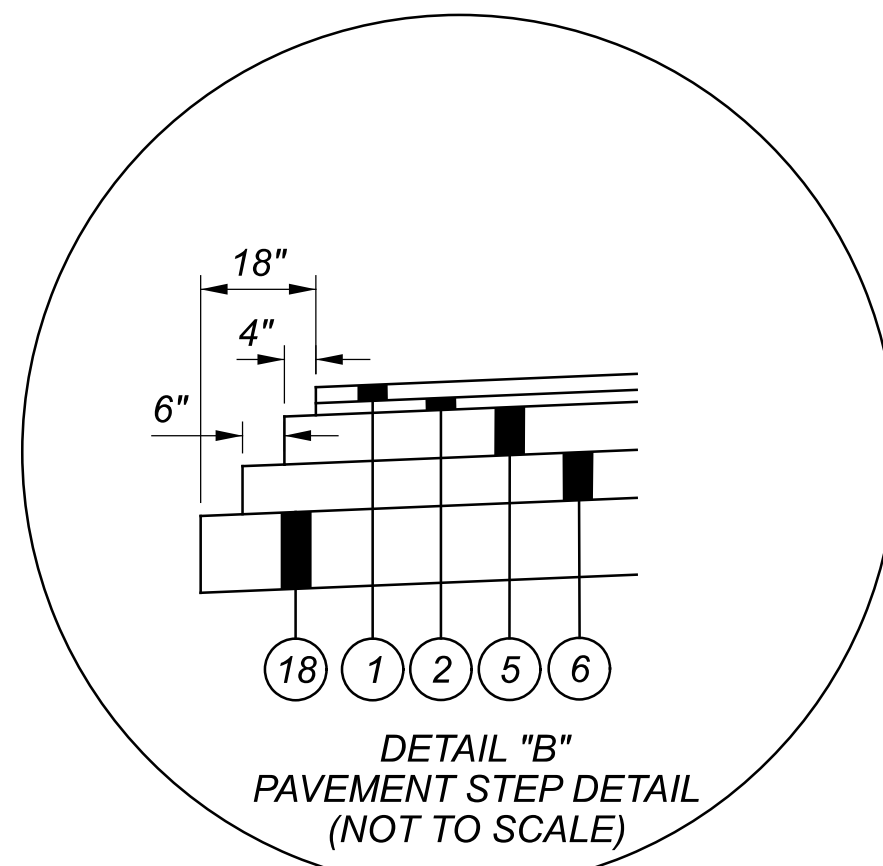


NORMAL RESURFACING AND WIDENING SECTION - SR 53

STA. 61+67.09 TO STA. 111+60.09

- [A] VARIES: 18.0' AT STA. 103+76.43 TO 24.0' AT STA. 106+76.43
24.0' FROM STA. 106+76.43 TO STA. 111+60.09
- [B] VARIES: 18.0' AT STA. 103+76.43 TO 12.0' AT STA. 106+76.43
12.0' FROM STA. 106+76.43 TO STA. 111+60.09
- [C] VARIES: 9.0' AT STA. 106+50.00 TO 21.0' AT STA. 110+60.68
21.0' FROM STA. 110+60.68 TO STA. 111+60.09

* NORTHBOUND RECON LIMIT STATION 110+60.68.
 RESURFACE NORTHBOUND FULL WIDTH STATION 110+60.68 TO STATION 111+60.09
 ** APPLY 18" UNDERDRAIN FROM STA. 93+35.43 TO 105+41.09



TYPICAL SECTIONS

DESIGN AGENCY



BERGMANN
 ARCHITECTS ENGINEERS PLANNERS
 3400 Bridgefield Blvd, Ste. C,
 Waukegan, OH 43377

DESIGNER
MAS

REVIEWER
 XF 02/08/23

PROJECT ID
 110859

SHEET TOTAL
 P.9 | 290

ROUNDING

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

UTILITIES

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

COLUMBIA GAS OF OHIO 1800 BROAD AVE. FINDLAY, OH 45840 419-427-3206	FRONTIER 1300 COLUMBUS-SANDUSKY RD. N. MARION, OH 43302 (740) 383-0686
CHARTER COMMUNICATIONS 3760 INTERCHANGE DR. COLUMBUS, OH 43204 (614) 255-6349	OHIO EDISON 2508 W. PERKINS AVE. SANDUSKY, OH 44870 (419) 627-6887
OTTAWA COUNTY ENGINEER 8247 W. STATE ROUTE 163 OAK HARBOR, OH 43449 (419) 734-6768	EVERSTREAM SOLUTIONS 866-624-8624
ODOT DISTRICT 2 TRAFFIC 317 E. POE RD. BOWLING GREEN, OH 43402 419-353-8131	OTTAWA COUNTY SANITARY ENGINEER 315 MADISON STREET, ROOM 105 PORT CLINTON, OHIO 43452 (419) 734-6725

TRAFFIC MONITORING SECTION ODOT
1980 WEST BROAD STREET,
COLUMBUS, OHIO 43223
(614-204-0914)

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.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET P.14 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: Type B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: Geoid 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(2011)
ELLIPSOID: GRS80
MAP PROJECTION: Lambert Conformal Conic 2 Parallel
COORDINATE SYSTEM: Ohio North (3401)
COMBINED SCALE FACTOR: 0.99994511
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.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 25 FT FOR ROADWAY CONSTRUCTION OR POLE HEIGHT FOR POLES INSTALLATION. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND THE ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO FILE A NEW FAA FORM 7460-1, ADVISING THE FAA THAT AERONAUTICAL STUDY NUMBER IS BEING RESUBMITTED AND THAT AN ALTERATION TO THE ORIGINAL SUBMISSION IS REQUESTED. THE AERONAUTICAL STUDY NUMBER WILL BE PROVIDED BY OWNER.

NOTIFY THE ODOT OFFICE OF AVIATION WHEN RESUBMITTING FAA FORM 7460-1. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FAA APPROVAL MAY TAKE UP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
OBSTRUCTION EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: (817) 222-5920
HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235

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.

DEWATERING

THE STORM SEWER SYSTEMS AND DRAINAGE DITCHES WITHIN THE PROJECT AREA REGULARLY CONTAIN WATER THROUGHOUT THE YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING WITHIN THE PROJECT AREA THAT WILL BE NECESSARY FOR THE REMOVAL AND INSTALLATION OF DRAINAGE CONDUITS, STRUCTURES, AND OTHER CONSTRUCTION ACTIVITIES. CONTRACTOR IS TO BE AWARE THAT WATER ELEVATIONS IN THE EXISTING DITCHES, CREEKS, SEWERS, AND STREAMS MAY EXCEED THE RECORDED, DOCUMENTED, AND OBSERVED ORDINARY HIGH WATER MARK (OHWM), AND CONTRACTOR IS TO INCLUDE ALL COSTS IN HIS BID FOR COMPLETING THE WORK SHOULD HE ENCOUNTER ANY FLUCTUATIONS IN WATER ELEVATIONS AND SITE CONDITIONS.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 DRAINAGE REMOVAL ITEMS AND THE PERTINENT 611 STRUCTURE AND CONDUIT ITEMS.

SEEDING AND MULCHING

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

659, TOPSOIL	5633 CU. YD.
659, SEEDING AND MULCHING	50748 SQ. YD.
659, REPAIR SEEDING AND MULCHING	2537 SQ. YD.
659, INTER-SEEDING	2537 SQ. YD.
659, COMMERCIAL FERTILIZER	7.36 TON
659, WATER	281 M. GAL.
659, MOWING	114 M. SQ.FT.

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.

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.

PROTECTION OF TRAFFIC MONITORING EQUIPMENT

PRIOR TO BEGINNING ANY PAVEMENT ACTIVITIES OR ANY EXCAVATION ACTIVITIES BETWEEN S.R. 53 STA. 88+70 AND S.R. 53 STA. 89+70, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE FROM THE OWNER WILL COORDINATE A TIME FOR THE OWNER/MAINTAINING AGENCY TO DISCONNECT THE EQUIPMENT. FOLLOWING THE DISCONNECTION BY THE OWNER, THE CONTRACTOR WILL BE ALLOWED TO PERFORM THEIR PAVEMENT ACTIVITIES, INCLUDING PAVEMENT REMOVAL. THE REMOVED LOOPS AND SENSORS BECOME THE PROPERTY OF THE CONTRACTOR.

DURING THE MEETING, THE OWNER/MAINTAINING AGENCY WILL IDENTIFY EQUIPMENT LOCATIONS. DO NOT DISTURB PULL BOXES, CONTROLLERS, CABINETS, POLES AND CONDUITS. ANY DAMAGE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND REPAIRS MUST BE ACCEPTED BY THE OWNER.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. RW.2, RW.3, AND RW.4.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 623 - MONUMENT ASSEMBLY REMOVED AND RESET	8 EACH
ITEM 623 - REFERENCE MONUMENT, TYPE A	2 EACH

FARM DRAINS

PROVIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS ENCOUNTERED DURING CONSTRUCTION. REPLACE EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE (RIGHT OF WAY)(CONSTRUCTION) LIMITS WITH ITEM 611, CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

OUTLET EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES INTO THE ROADWAY.

DITCH USING ITEM 611, TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. INTERCEPT LATERAL FIELD TILES WHICH CROSS THE ROADWAY WITH ITEM 611, TYPE E CONDUIT, AND CARRY IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

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

PROVIDE EROSION CONTROL PADS AT THE OUTLET END OF ALL FARM DRAINS 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 IS INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

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

- 611 6" CONDUIT, TYPE E 50 FT.
- 611 6" CONDUIT, TYPE F 50 FT.
- 601 ROCK CHANNEL PROTECTION TYPE C WITH FILTER 10 CU. YD.

ITEM 452, 6" AND 8" NON-REINFORCED CONCRETE PAVEMENT CLASS QC1P, AS PER PLAN (SPLITTER ISLANDS AND CENTER ISLAND RIBBON)

IN ADDITION TO THE REQUIREMENTS OF CMS SECTION 452, AND SECTION 608, THESE ITEMS OF WORK INCLUDE PROVIDING A COLORED AND STAMPED FINISH.

STAMPED PATTERN: COBBLESTONE 5"X10"
COLOR: BUFF
RELEASE: LIGHT GREY

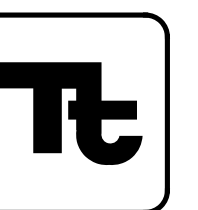
PROVIDE FOUR FIELD EXAMPLES OF THE SURFACE COLORS, TEXTURES, AND PATTERNS SPECIFIED FOR APPROVAL BY THE ENGINEER BEFORE BEGINNING WORK. THE SAMPLES SHALL BE 4' X 4' IN SIZE AND BE CONSTRUCTED USING THE SAME TECHNIQUES AND MATERIAL INTENDED FOR THE FINAL PAVED SURFACE.

INCLUDE THE COST OF ANY MATERIALS AND LABOR NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE IN THE UNIT PRICES BID FOR ITEM 452, 8" NON-REINFORCED CONCRETE PAVEMENT CLASS QC1P, AS PER PLAN (SPLITTER ISLANDS AND CENTER ISLAND RIBBONS).

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.

DESIGN AGENCY



DESIGNER
RJS

REVIEWER
AJL 02/08/23

PROJECT ID
110859

SHEET TOTAL
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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, 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, NOTIFY THE ENGINEER 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, NOTIFY THE ENGINEER 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 IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

ITEM 605 - AGGREGATE DRAINS

CONSTRUCT AGGREGATE DRAINS AT THE FOLLOWING LOCATIONS

RAMP C	STA. 516+51 (LEFT)	STA. 516+76 (LEFT)
	STA. 517+01 (LEFT)	STA. 517+26 (LEFT)
	STA. 517+51 (LEFT)	STA. 517+76 (LEFT)
	STA. 518+01 (LEFT)	STA. 518+26 (LEFT)
	STA. 518+51 (LEFT)	STA. 518+73 (LEFT)
	STA. 518+99 (LEFT)	STA. 519+29 (LEFT)
	STA. 519+59 (LEFT)	STA. 519+89 (LEFT)
	STA. 520+19 (LEFT)	

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY FOR AGGREGATE DRAINS.

ITEM 605 - AGGREGATE DRAINS 286 FT.

632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION

TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, CONTROLLER, ETC., SHALL BE REMOVED IN ACCORDANCE WITH C&MS 632.26 AND AS INDICATED ON THE PLANS. REMOVED ITEMS SHALL BE REUSED AS PART OF A NEW INSTALLATION ON THE PROJECT OR STORED ON THE PROJECT FOR SALVAGE BY ODOT IN ACCORDANCE WITH THE LISTING GIVEN HEREIN.

ITEMS TO BE STORED:

- SIGNAL CONTROLLER
- CONFLICT MONITOR
- UPS
- RADAR UNITS & COMPONENTS
- NETWORK SWITCH
- FIBER OPTIC COMPONENTS

REMOVED ITEMS SHALL BE DELIVERED TO THE NEAREST ODOT FACILITY WHOSE ADDRESS IS LISTED BELOW:

ODOT DISTRICT 2, ATTN: JORDAN MAAS (419.265.5080)

317 E. POE RD.
BOWLING GREEN, OH 43402

IN THE EVENT THE ITEMS STORED ON THE PROJECT FOR SALVAGE BY THE LOCAL AGENCY ARE NOT REMOVED, THE CONTRACTOR SHALL, WHEN DIRECTED BY THE ENGINEER IN WRITING, REMOVE AND DISPOSE OF THE ITEMS AT NO ADDITIONAL COST TO THE PROJECT.

ITEM 611, 12" TYPE B, AS PER PLAN

IN ADDITION TO SPECIFICATION 611, THE CONTRACTOR SHALL REPLACE 28' OF TYPE 6 DRIVEWAY CURBS FROM THE PIPE OPEN TRENCH CONSTRUCTION ACTIVITIES UNDER E. KNOLL CREST DRIVE AS NOTED ON PLAN SHEET 74. PAYMENT FOR ALL WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.

ITEM SPECIAL - SETTLEMENT PLATFORMS

DESCRIPTION: THIS ITEM CONSISTS OF FURNISHING, CONSTRUCTING, AND MAINTAINING SETTLEMENT PLATFORMS AND OBTAINING SETTLEMENT READINGS AS REQUIRED BY THE PLANS OR AS DIRECTED BY THE ENGINEER. AT THE OPTION AND EXPENSE OF THE CONTRACTOR, ADDITIONAL SETTLEMENT PLATFORMS MAY BE INSTALLED AT LOCATIONS APPROVED BY THE ENGINEER. SETTLEMENT READINGS SHALL BE TAKEN WEEKLY DURING CONSTRUCTION AND DURING ANY SPECIFIED WAITING PERIOD. THE READINGS SHALL BE PLOTTED ON GRAPH PAPER PRESENTING DEFORMATION (ON THE NEGATIVE Y-AXIS) AND FILL HEIGHT (ON THE POSITIVE Y-AXIS) VERSUS TIME (ON THE X-AXIS). A COPY OF EACH CUMULATIVE PLOT SHALL BE SENT TO THE DISTRICT GEOTECHNICAL ENGINEER AND THE OFFICE OF GEOTECHNICAL ENGINEERING, ATTENTION: GEOTECHNICAL DESIGN COORDINATOR, AFTER EACH SETTLEMENT READING IS RECORDED.

THE DEPARTMENT WILL CONSIDER VIBRATING WIRE SETTLEMENT MONITORING PLATFORMS IN LIEU OF THE CONVENTIONAL SETTLEMENT PLATFORMS. THE CONTRACTOR SHOULD PROVIDE DETAILS OF THE PROPOSED VIBRATING WIRE SETTLEMENT PLATFORMS AS WELL AS DESIGN DRAWINGS OF THE PROPOSED PLATFORM AND CABLING LAYOUT TO THE ENGINEER AT LEAST 30 DAYS PRIOR TO CONSTRUCTION. THE DEPARTMENT WILL REQUIRE 10 WORKING DAYS FOR REVIEW AND APPROVAL. THE DESIGN DRAWINGS SHOULD ILLUSTRATE THE PROPOSED SETTLEMENT VIBRATING WIRE SETTLEMENT PLATFORM LOCATIONS WITH ALL EXISTING AND PROPOSED SITE FEATURES TO VERIFY THE PROPOSED CABLING WILL NOT CONFLICT WITH EXISTING FACILITIES, PROPOSED FACILITIES OR UTILITIES. NO ADDITIONAL PAYMENT WILL BE PROVIDED IF THE CONTRACTOR ELECTS TO UTILIZE VIBRATING WIRE SETTLEMENT PLATFORMS.

MATERIALS: SOUND LUMBER SUCH AS 3/4 INCH EXTERIOR GRADE PLYWOOD SHALL BE USED FOR THE BASE. THE PIPE SHALL BE 2 1/2" STANDARD BLACK PIPE WITH THREADED FITTINGS AS SHOWN ON THE PLANS. A STEEL PLATE 36"X36"X1/8" MAY BE SUBSTITUTED FOR THE LUMBER FOR THE PLATFORMS, AT CONTRACTOR'S OPTION.

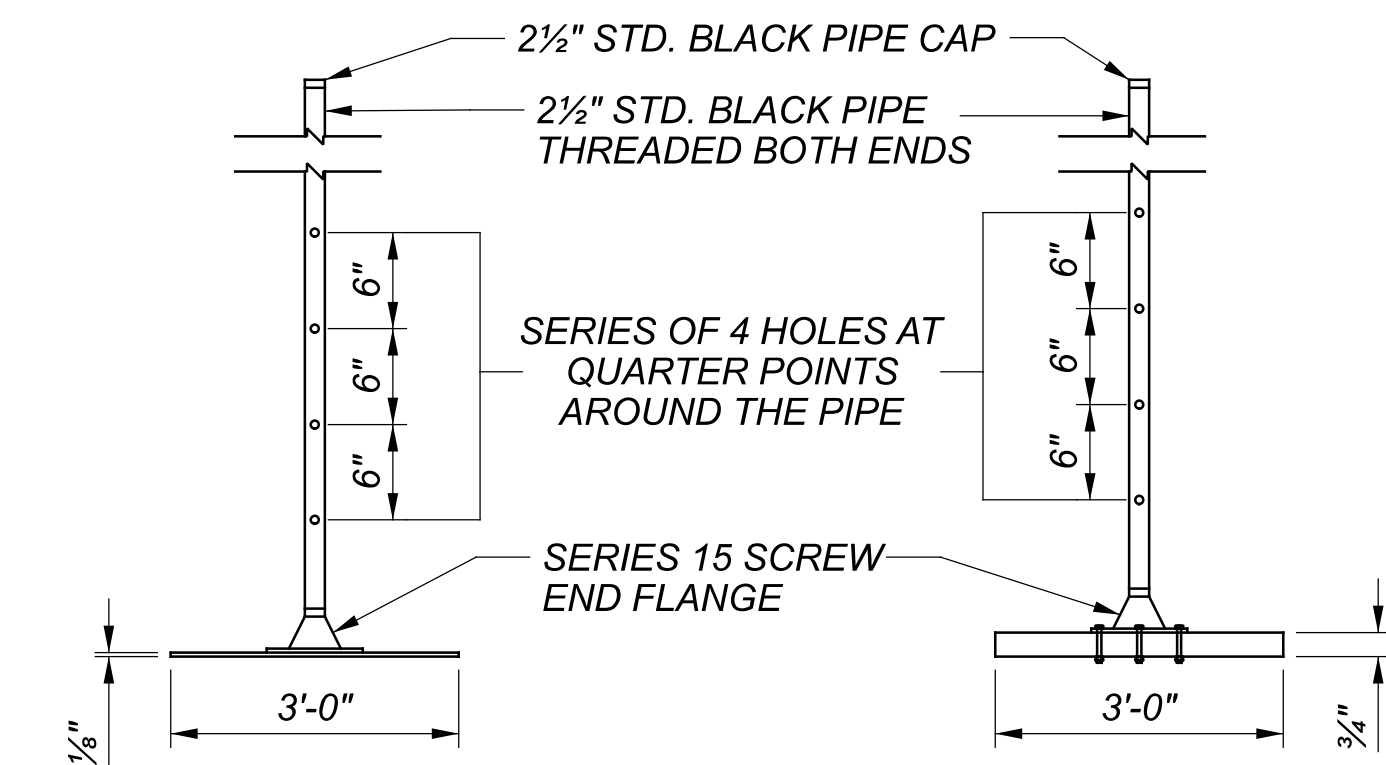
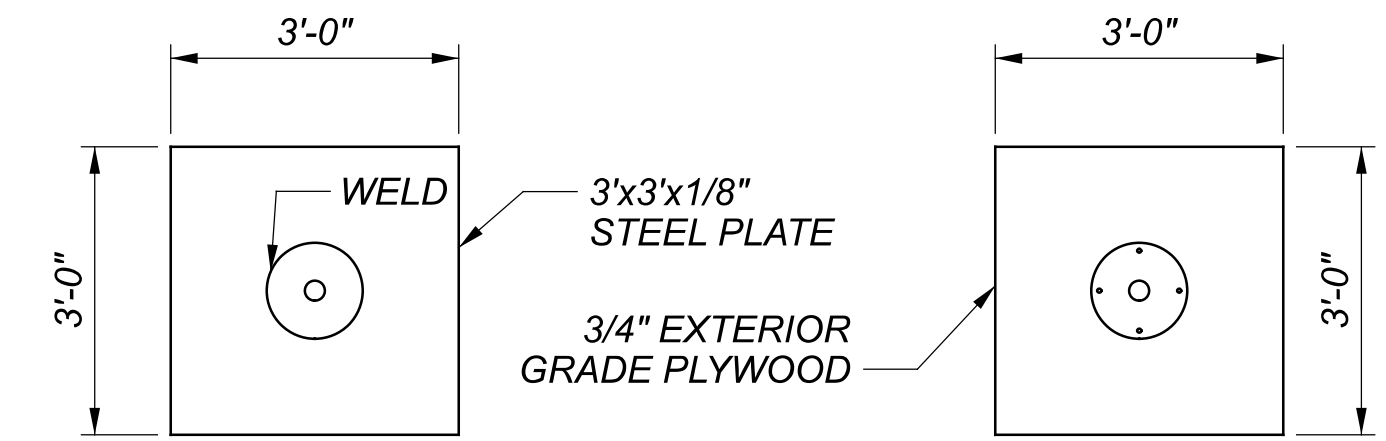
CONSTRUCTION REQUIREMENTS: THE 36"X36" PLATFORM SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS. THE PLATFORM SHALL BE SET ON A LEVEL SURFACE. THE PIPES SHALL BE FIRMLY SECURED TO THE PLATFORMS AND SHALL BE MAINTAINED IN PLUMB POSITION DURING THE PLACEMENT OF THE EMBANKMENT. PIPE SHALL BE MARKED AT INTERVALS BY THE CONTRACTOR TO FACILITATE MEASUREMENT OF THE DEPTH OF FILL. THE CONTRACTOR SHALL STOP WORK IN ANY LOCATION WHERE A SETTLEMENT PLATFORM HAS DISTURBED OR DAMAGED UNTIL THE NECESSARY CORRECTIONS OR REPLACEMENT HAS BEEN PERFORMED.

THE CALCULATED SETTLEMENT IS 2.5". THE ESTIMATED SETTLEMENT PERIOD IS 42 CONSECUTIVE DAYS AFTER THE FINAL LIFT OF EMBANKMENT HAS BEEN PLACED. THE SETTLEMENT PERIOD WILL END AND INSTALLATION OF CONCRETE AND ASPHALT PAVEMENT AND CONCRETE CURB MAY BEGIN ONCE THE SETTLEMENT PLATFORM READINGS ILLUSTRATE THAT 90% OF THE SETTLEMENT HAS OCCURRED OR 1/8" OR LESS OF TOTAL MOVEMENT OVER A TWO WEEK WAITING PERIOD.

PRIOR TO PAVING, THE TOP OF THE SETTLEMENT PLATFORM PIPE SHALL BE CUT OFF 2 FEET BELOW FINISHED SURFACE OF THE SUBGRADE OR TOPSOIL SURFACE, WHICHEVER IS APPLICABLE.

METHOD OF MEASUREMENT: THE NUMBER OF SETTLEMENT PLATFORMS TO BE PAID FOR WILL BE THE ACTUAL NUMBER OF SETTLEMENT PLATFORMS COMPLETED, MAINTAINED, AND ACCEPTED BY THE ENGINEER.

BASIS OF PAYMENT: PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH FOR "ITEM SPECIAL, SETTLEMENT PLATFORMS" WHICH IS COMPENSATED FOR CONSTRUCTION, MAINTAINING AND MONITORING THE SETTLEMENT PLATFORMS INCLUDING FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK. PAYMENT WILL NOT BE MADE FOR SETTLEMENT PLATFORMS WHICH BECOME USELESS BECAUSE OF DAMAGE INFLICTED BY THE CONTRACTOR'S OPERATIONS.



NOTES:

1. SETTLEMENT PLATFORMS SHALL BE PLACED AT SR 53 - STA. 53+25.00, 55' OFFSET (LT)
SR 53 - STA. 53+50.00, 55' OFFSET (RT)
RAMP C - STA. 523+50.00, 25' OFFSET (RT)
RAMP D - STA. 526+50.00, 0' OFFSET
2. CONTRACTOR HAS OPTION OF USING EITHER STEEL OR PLYWOOD PLATFORM BASE.
3. CONTRACTOR SHALL FURNISH MATERIALS AND LABOR TO EXTEND PIPE UP THROUGH ENTIRE FILL.
4. SETTLEMENT PLATFORMS SHALL BE ANCHORED BY STAKES DRIVEN AT EACH CORNER TO PREVENT OVERTURNING.

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY FOR SETTLEMENT PLATFORMS.

ITEM 203 - SPECIAL - SETTLEMENT PLATFORM 4 EACH

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 SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

OTT-53-11.67

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GENERAL NOTES

DESIGN AGENCY

DESIGNER
JPH

REVIEWER
AJL 02/08/23

PROJECT ID
110859

SHEET TOTAL
P.15 | 290

PETROLEUM CONTAMINATED SOILS

ENVIRONMENTAL STUDIES HAVE SHOWN THAT PETROLEUM CONTAMINATED SOILS MAY BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES WITHIN THE EXISTING RIGHT OF WAY NEAR THE FOLLOWING LOCATION:

1. BAUMANN AUTO CENTER, 625 SOUTHEAST CATAWBA ROAD, PORT CLINTON, OH 43452

2. NORTHCOAST MARINE SPECIALTIES, THE LUBE CONNECTION, TRI-AUTO LIQUIDATION, 230/250 SE CATAWBA ROAD, PORT CLINTON, OH 43452

ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK. ALL MATERIAL EXCAVATED AT THE AFOREMENTIONED LOCATIONS SHALL BE DEALT WITH ACCORDING TO THE NOTES BELOW.

THE CONTRACTOR SHALL OBTAIN THE SERVICES OF AN ENVIRONMENTAL CONSULTANT TO EVALUATE THE EXCAVATED MATERIALS FROM THIS SITE AND CLASSIFY THEM INTO ONE OF THE FOLLOWING TWO CATEGORIES: PETROLEUM CONTAMINATED SOILS OR NON-REGULATED SOILS.

MATERIALS THAT THE CONTRACTOR'S ENVIRONMENTAL CONSULTANT HAS DETERMINED TO BE PETROLEUM CONTAMINATED SOILS MAY BE TEMPORARILY STOCKPILED ON AN IMPERMEABLE MEMBRANE, IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE MEMBRANE SHALL BE SURROUNDED BY BALES OF STRAW TO PREVENT THE EXCAVATED MATERIAL FROM COMING IN CONTACT WITH THE UNDERLYING SOIL. AN IMPERMEABLE MEMBRANE SHALL BE PLACED OVER THE STOCKPILE TO PREVENT CONTACT WITH PRECIPITATION AND/OR SURFACE RUN-OFF. THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED MATERIAL INTO TRUCKS. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF EXCAVATED MATERIAL IN A LINED AND COVERED ROLLOFF BOX.

PETROLEUM CONTAMINATED SOILS MAY BE REUSED ON THE PROJECT. HOWEVER, IF THESE MATERIALS CAN'T BE REUSED ON THE PROJECT AND ARE OVER THE BUSTR RE-USE LEVELS STATED IN 1307:7-9-16, THEY ARE TO BE DISPOSED OF. THIS MATERIAL SHALL BE PROPERLY TRANSPORTED, AND DISPOSED OF AS A SOLID WASTE IN A LICENSED (BY THE LOCAL HEALTH DEPARTMENT) AND PERMITTED (BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY) SOLID WASTE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TESTING, PERMITS, AND APPROVALS TO TRANSPORT AND DISPOSE OF THE MATERIAL. MATERIALS UNDER BUSTR RE-USE LEVELS ARE CONSIDERED NON-REGULATED.

ALL EXCAVATED SOILS WHICH ARE DETERMINED TO BE NON-REGULATED SOILS MAY BE USED AS BACKFILL FOR OTHER PROJECT PURPOSES, PROVIDED THAT IT MEETS ODOT CMS 203. THE WORK INVOLVED IN THIS ITEM INCLUDES HANDLING, TESTING, STORAGE, AND DISPOSAL OF NON-REGULATED SOILS.

THE CONTRACTOR IS TO COMPLETE ALL MANIFESTS FOR ALL MATERIAL TO BE TRANSPORTED. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS AND APPROVALS TO TRANSPORT THE MATERIAL TO A LICENSED AND PERMITTED DISPOSAL FACILITY. CONTACT THE DISPOSAL FACILITY TO DETERMINE IF ANY ADDITIONAL TESTING IS REQUIRED FOR DISPOSAL. PROVIDE ANY ADDITIONAL SAMPLING AND ANALYSIS OF THE MATERIAL AS REQUIRED BY THE DISPOSAL FACILITY AT NO ADDITIONAL CHARGE TO THE PROJECT. OBTAIN ALL SIGNATURES ON THE MANIFEST FOR TRANSPORTING AND DISPOSAL OF THE MATERIAL AND PROVIDE A FINAL COPY TO THE ENGINEER.

ALL TRANSPORT VEHICLES USED FOR THE MOVEMENT OF REGULATED SOILS AND/OR WATER SHALL MEET APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN RECORDS (SUCH AS DAILY LOGS, LANDFILL TICKETS, MANIFESTS, ETC.) DOCUMENT THE SOURCE, MOVEMENT, AND DESTINATION OF EACH TRUCKLOAD OF CONTAMINATED SOIL. ONE COPY OF EACH OF THESE RECORDS SHALL BE SUBMITTED TO THE ENGINEER.

THE CONTRACTOR SHALL FURNISH ALL THE LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PROPERLY HANDLE, STORE, TEST (FOR DISPOSAL), TRANSPORT, AND DISPOSE OF REGULATED MATERIALS, INCLUDING ANY REQUIRED PERMITS, APPROVALS, OR FEES WITHIN THE LIMITS IDENTIFIED ABOVE. PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT PRICE BID PER TON. QUANTITIES WILL BE DETERMINED FROM FINAL DOCUMENTS PROVIDED BY THE DISPOSAL FACILITY WHICH SHOW THE AMOUNT OF MATERIAL DISPOSED OF. PAYMENT FOR THIS ITEM SPECIAL SHALL BE MADE AT THE APPROPRIATE CONTRACT BID PER THE ITEMS LISTED BELOW. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

- ITEM SPECIAL - WORK INVOLVING NON-REGULATED MATERIALS 500 TON
- ITEM SPECIAL - WORK INVOLVING PETROLEUM CONTAMINATED SOILS 500 TON

ITEM 611 - MANHOLE NO. 3, AS PER PLAN

FURNISH AND INSTALL A CIRCULAR MANHOLE OR RECTANGULAR JUNCTION CHAMBER IN ACCORDANCE WITH CM&S 611 & 706.13. DESIGN RECTANGULAR JUNCTION CHAMBER IN ACCORDANCE WITH ASTM C890 - STANDARD PRACTICE FOR MINIMUM STRUCTURAL DESIGN LOADING FOR MONOLITHIC OR SECTIONAL PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES.

MINIMIZE STRUCTURE DEPTH TO MINIMIZE THE IMPACT TO THE STANDARD ROADWAY SHOULDER / FORESLOPE GRADING. ADJUST GRADING AT STRUCTURES TO PREVENT PROTRUSION OF THE STRUCTURE BEYOND THE GRADING WHICH COULD CREATE A SAFETY HAZARD.

PROVIDE STANDARD FRAMES AND COVERS, GRADE RINGS, RISERS OR SPECIAL HEAVY DUTY COVERS THAT ARE FLUSH WITH THE TOP OF THE STRUCTURE AS REQUIRED TO MEET THE GRATE ELEVATIONS SHOWN IN THE PLANS.

ROADWAY ALTERNATE 1 - CEMENT SUBGRADE STABILIZATION

STABILIZE THE SUBGRADE IN ACCORDANCE WITH CM&S 206 AND AS SHOWN IN THE TYPICAL SECTIONS, CROSS SECTIONS AND THE ESTIMATED QUANTITIES SHOWN IN THE GENERAL SUMMARY UNDER THE ROADWAY ALTERNATE 1 HEADING.

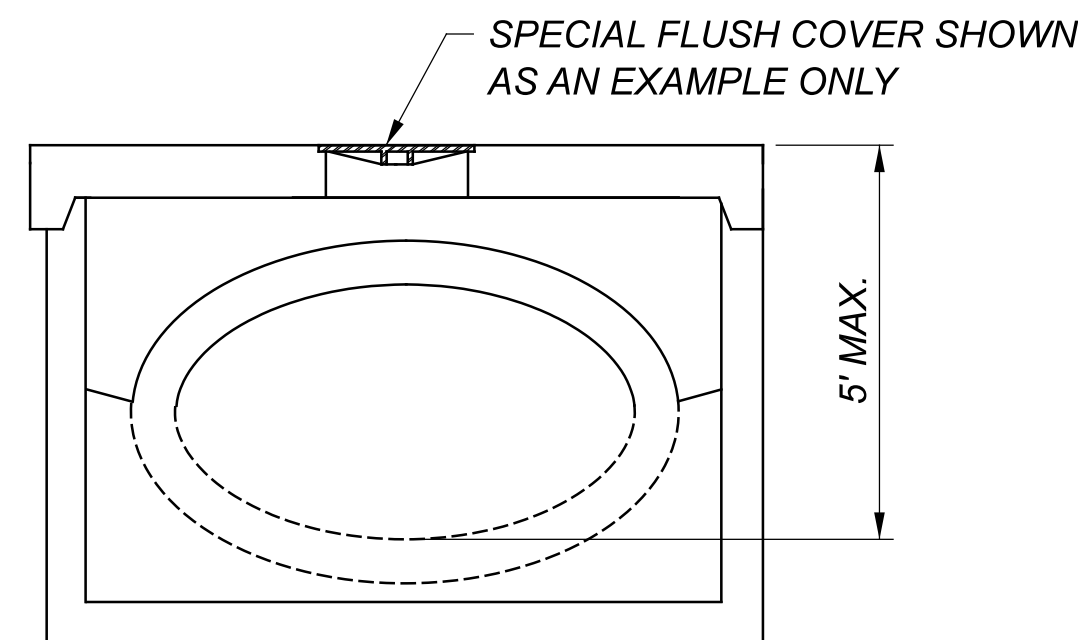
THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED UNDER THE ROADWAY ALTERNATE 1 HEADING IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

- ITEM 204 - SUBGRADE COMPACTION 6,000 SYD
- ITEM 204 - EXCAVATION OF SUBGRADE 2,000 CYD
- ITEM 204 - GRANULAR MATERIAL, TYPE C 2,000 CYD
- ITEM 204 - GEOTEXTILE FABRIC, TYPE D, 712.09 6,000 SYD
- ITEM 204 - GEOGRID 6,000 SYD

ROADWAY ALTERNATE 2 - UNDERCUT SUBGRADE STABILIZATION

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
2. EXCAVATE AND REPLACE ANY UNSUITABLE SUBGRADE ENCOUNTERED BEFORE PROOF ROLLING. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).
- IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
3. COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.



MANHOLE NO. 3, AS PER PLAN SECTION

Table 5.1.A. GB-1 Subgrade Analysis Indicated Undercut Depths		
Boring Number(s)	GB-1 Recommended Depth of Undercut and Replacement with Granular Engineered Fill (inches)	Recommended Subgrade Modification Extents
B-001	12	SR-2 - Ramp C - Entire Ramp. Begin Work STA 516+51 to POT 524+09.
B-004	12	SR-2 Ramp D - Undercut not applicable in area of Boring B-004 since greater than 3 feet of embankment fill to be placed from west end of ramp to STA 529±.
B-005	15	SR-2 Ramp D - STA 529 to End Work STA 539+92
B-006	No treatment indicated by GB-1	East State Road - Begin Work STA 46+49 to STA 48+00

Table 5.1.A. GB-1 Subgrade Analysis Indicated Undercut Depths		
Boring Number(s)	GB-1 Recommended Depth of Undercut and Replacement with Granular Engineered Fill (inches)	Recommended Subgrade Modification Extents
B-007	18	Roundabout at SR-53 and East State Road. East State Road - from STA 48+00 to STA 50+00. SR-53 Southbound - from STA 58+00 to STA 60+00.
B-008	No treatment indicated by GB-1	Roundabout at SR-53 and East State Road East State Road - from STA 50+00 to End Work STA 54+09. SR-53 Northbound - from STA 58+00 to STA 60+00
B-009	No treatment indicated by GB-1	East State Road - from STA 50+00 to End Work STA 54+09.
B-011 and B-012	12	SR-53 - from Begin Project STA 51+36 to STA 58+00
B-013 through and B-017	12	SR-53 - from STA 60+00 to STA 79+50
B-018	18	SR-53 - from STA 79+50 to STA 84+50
B-019	12	SR-53 - from STA 84+50 to STA 88+50
B-020 and B-021	18	SR-53 - from STA 88+50 to STA 97+50
B-022	12	SR-53 - from STA 97+50 to STA 101+00
B-023 and B-024	18	SR-53 - from STA 101+00 to STA 109+50
B-025	42	SR-53 - from STA 109+50 to End Project STA 111+60.

4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN IN THE TABLE BELLOW. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.

5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.

6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.

7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED UNDER THE ROADWAY ALTERNATE 2 HEADING IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

- ITEM 204 - SUBGRADE COMPACTION 39,600 SYD
- ITEM 204 - EXCAVATION OF SUBGRADE 16,000 CYD
- ITEM 204 - GRANULAR MATERIAL, TYPE C 16,000 CYD
- ITEM 204 - PROOF ROLLING 21 HR
- ITEM 204 - GEOTEXTILE FABRIC, TYPE D, 712.09 38,000 SYD
- ITEM 204 - GEOGRID 38,000 SYD

DESIGN AGENCY



DESIGNER

JPH

REVIEWER

AJL 02/08/23

PROJECT ID

110859

SHEET TOTAL

P.16 290

SUGGESTED SEQUENCE OF CONSTRUCTION

	ALLOWABLE CLOSURE PERIODS
PHASE 1A - INSTALL TEMPORARY PAVEMENT FOR SR 53 NORTHBOUND (NIGHT PAVING ONLY). SR 53 WILL ONLY ALLOW FOR FLAGGER CONTROLLED ONE-WAY TRAFFIC UTILIZING THE EXISTING SOUTHBOUND LANE.	7/6/23 - 7/10/23
PHASE 1B - CONSTRUCT 17' PERMANENT PAVEMENT, UP TO INTERMEDIATE COURSE, FOR WIDENING ON SOUTHBOUND SR 53. TRUNKLINE DRAINAGE IS TO ALSO BE CONSTRUCTED. MUST MAINTAIN 2-WAY TRAFFIC AT ALL TIMES.	7/10/23 - 11/10/23
PHASE 2A - CONSTRUCT 17' PERMANENT PAVEMENT, UP TO INTERMEDIATE COURSE, FOR WIDENING NORTHBOUND SR 53. MUST MAINTAIN 2-WAY TRAFFIC AT ALL TIMES. PHASE MUST BE COMPLETE PRIOR TO OPENING ROUNDABOUT AT SR 53 AND STATE ROAD	11/10/23 - 5/24/24
PHASE 2B - CONSTRUCT ROUNDABOUT AT SR 53 AND STATE ROAD; SEE PLAN DETAIL FOR MAINTAINING WB AND EB TRAFFIC ALONG STATE ROAD WHILE NORTHERN PORTION OF ROUNDABOUT IS BEING CONSTRUCTED. ONCE NORTHERN PORTION IS COMPLETE, THE CONTRACTOR CAN CLOSE THE INTERSECTION FOR NO MORE THAN 1 WEEK TO COMPLETE EAST AND WEST LEGS OF THE ROUNDABOUT TO ALLOW FOR WB TRAFFIC ONLY. * STATE ROAD ROUNDABOUT MUST BE COMPLETE AND OPEN TO TRAFFIC BY 11/10/23. CONSTRUCT INTERCHANGE RAMP AND ROUNDABOUT AT SR 2 AND SR 53. SR 2 MUST MAINTAIN 2-WAY TRAFFIC AT ALL TIMES.	9/5/23 - 5/24/24
PHASE 3 - MILL AND PAVE SURFACE COURSE FOR SR 53, STATE ROAD, AND SR 163. MUST MAINTAIN 2-WAY TRAFFIC AT ALL TIMES.	3/1/24 - 5/24/24
PHASE 4 - PUNCHLIST AND RESTORATION ITEMS - NO LANE RESTRICTIONS	5/24/24 - 12/6/24

WORK	ALLOWABLE LANE RESTRICTIONS AND/OR CLOSURE PERIODS	TIME UNIT	DISINCENTIVE PER TIME UNIT IF NOT REOPENED AT STATED TIME PERIOD
FOR SR-53, STATE RD, AND SR-163 WORK REQUIRING LANE RESTRICTIONS/CLOSURES INCLUDING FLAGGING OPERATIONS THAT WOULD IMPEDE TRAFFIC FLOW	9PM TO 7AM DAILY BETWEEN 5/26/23 - 9/5/23 & 5/24/24 - 9/3/24	PER HOUR	\$1,000
FOR SR-53, STATE RD, AND SR-163 WORK REQUIRING LANE RESTRICTIONS INCLUDING FLAGGING OPERATIONS THAT WOULD IMPEDE TRAFFIC FLOW (OTHER THAN THE SR 53 / 163 INTERSECTION AREA WHICH IS ADDRESSED BELOW)	DAILY BETWEEN 9/5/23 - 5/24/24 & 9/23/24 - 12/6/24	PER DAY	\$5,000
SR 53/SR 163 INTERSECTION AREA	9PM TO 7AM DAILY BETWEEN MAY AND SEPTEMBER **	PER HOUR	\$1,000
E STATE RD/SR 53 ROUNDABOUT CONSTRUCTION	9/5/23 UNTIL 11/10/23 ***	PER DAY	\$3,000
SR 53 INTERCHANGE	9/5/23 UNTIL 5/10/24	PER DAY	\$5,000
SR 53/SR 2 INTERCHANGE AND SR 53/E STATE RD ROUNDABOUT MAY BE CLOSED FOR FINAL SURFACE PAVING	9PM TO 7AM NIGHTLY -SUNDAY, MONDAY, TUESDAY, WEDNESDAY OR THURSDAY - MAXIMUM 2 NIGHTS	PER MINUTE	\$50
INSTALL/SHIFT TRAFFIC/REMOVE TEMPORARY PAVEMENT ON WB SR-2, INSTALLATION OF PCB.	24/7 SINGLE LANE CLOSURE FOR UP TO 2 WEEKS TO INSTALL (AND ANOTHER 2 WEEKS) TO REMOVE TEMP PAVEMENT ETC. ANY ADDITIONAL WORK MAY BE COMPLETED WITH OVERNIGHT LANE CLOSURES FROM 9PM TO 7AM	PER HOUR	\$500

* DURING THE PERIOD OF TIME WHEN WB TRAFFIC ONLY IS MAINTAINED (ON THE COMPLETED NORTHERN PORTION OF THE ROUNDABOUT) THE CONTRACTOR SHALL INSTALL ROAD CLOSED SIGNS AND BARRICADES FOR EB STATE ROAD AND ONE WAY SIGNS AT EACH DRIVE. INSTALLATION, MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN.
 ** INTENT IS NOT TO HAVE MILLING/PAVING TRAIN WORKING THROUGH THIS INTERSECTION DURING DAYTIME HOURS BETWEEN THE MONTHS OF MAY THROUGH SEPTEMBER.
 *** PER MOT DETAILS, STATE RD TO REMAIN OPEN FOR MAJORITY OF THIS TIME.

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.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE MAINTENANCE OF TRAFFIC SUBSUMMARY.

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

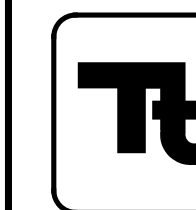
ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

DESIGN AGENCY



DESIGNER	AMD
REVIEWER	AJL 02/08/23
PROJECT ID	110859
SHEET	TOTAL
P.20	290

SHEET NUM.												PART.	ALT	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
13	15	16	21	43	44	45	46	50	56	58	59	01/S<2/04	(X)	ITEM	EXT	TOTAL			
												LS		201	11000	LS		ROADWAY	
				134		10,099	14,439					30,766		202	23000	30,766	SY	CLEARING AND GRUBBING	
					300							300		202	30000	300	SF	PAVEMENT REMOVED	
					121							121		202	30600	121	SY	WALK REMOVED	
					68							68		202	30700	68	FT	CONCRETE MEDIAN REMOVED	
				442						510		952		202	32000	952	FT	CONCRETE BARRIER REMOVED	
			488		924							1,412		202	38000	1,412	FT	CURB REMOVED	
					9							9		202	53100	9	EACH	GUARDRAIL REMOVED	
					304							304		202	75000	304	FT	MAILBOX REMOVED	
				16,857								17,374		203	10000	17,374	CY	FENCE REMOVED	
				29,938								30,113		203	20000	30,113	CY	EXCAVATION	
	4											4		SPECIAL	20365000	4	EACH	EMBANKMENT	15
										4,068		4,068		204	10000	4,068	SY	SETTLEMENT PLATFORM	
					1,281.5							1,281.5		606	15050	1,281.5	FT	SUBGRADE COMPACTION	
					2							2		606	26150	2	EACH	GUARDRAIL, TYPE MGS	
					2							2		606	26550	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
					1							1		606	35002	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
					1							1		606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
					300							300		607	15000	300	FT	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
				10,031								10,031		608	10000	10,031	SF	FENCE, TYPE 47	
				301								301		608	15000	301	SF	4" CONCRETE WALK	
				1,174								1,174		608	52000	1,174	SF	8" CONCRETE WALK	
8												8		623	40000	8	EACH	CURB RAMP	
2												2		623	40500	2	EACH	MONUMENT ASSEMBLY REMOVED AND RESET	
					1							1		632	90100	1	EACH	REFERENCE MONUMENT, TYPE A	15
					9							9		SPECIAL	69050100	9	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	15
		500										500		SPECIAL	69065000	500	TON	MAILBOX SUPPORT SYSTEM, SINGLE	15
		500										500		SPECIAL	69065016	500	TON	WORK INVOLVING NON-REGULATED MATERIALS	16
																		WORK INVOLVING PETROLEUM CONTAMINATED SOIL	16
																		ROADWAY ALTERNATES	
		6,000										6,000	X	204	10000	6,000	SY	SUBGRADE COMPACTION (ALTERNATE 1)	
		2,000										2,000	X	204	13000	2,000	CY	EXCAVATION OF SUBGRADE (ALTERNATE 1)	
		2,000										2,000	X	204	30020	2,000	CY	GRANULAR MATERIAL, TYPE C (ALTERNATE 1)	
					6	14						20	X	204	45000	20	HOUR	PROOF ROLLING (ALTERNATE 1)	
		6,000										6,000	X	204	50000	6,000	SY	GEOTEXTILE FABRIC, TYPE D, 712.09 (ALTERNATE 1)	
		6,000										6,000	X	204	51000	6,000	SY	GEOGRID (ALTERNATE 1)	
						342	840					1,182	X	206	10500	1,182	TON	CEMENT (ALTERNATE 1)	
						11,337	27,819					39,156	X	206	11000	39,156	SY	CURING COAT (ALTERNATE 1)	
						11,337	27,819					39,156	X	206	15020	39,156	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP (ALTERNATE 1)	
		39,600										39,600	X	204	10000	39,600	SY	SUBGRADE COMPACTION (ALTERNATE 2)	
		16,000										16,000	X	204	13000	16,000	CY	EXCAVATION OF SUBGRADE (ALTERNATE 2)	
		16,000										16,000	X	204	30020	16,000	CY	GRANULAR MATERIAL, TYPE C (ALTERNATE 2)	
		21										21	X	204	45000	21	HOUR	PROOF ROLLING (ALTERNATE 2)	
		38,000										38,000	X	204	50000	38,000	SY	GEOTEXTILE FABRIC, TYPE D, 712.09 (ALTERNATE 2)	
		38,000										38,000	X	204	51000	38,000	SY	GEOGRID (ALTERNATE 2)	
																		EROSION CONTROL	
									14			14		601	21050	14	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
					202							202		601	21060	202	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
10												10		601	32200	10	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
5,633											397	6,030		659	00300	6,030	CY	TOPSOIL	
50,748												50,748		659	10000	50,748	SY	SEEDING AND MULCHING	
2,537												2,537		659	14000	2,537	SY	REPAIR SEEDING AND MULCHING	
2,537												2,537		659	15000	2,537	SY	INTER-SEEDING	
7.36												7.36		659	20000	7.36	TON	COMMERCIAL FERTILIZER	
281												281		659	35000	281	MGAL	WATER	
114												114		659	40000	114	MSF	MOWING	
											161	161		670	00500	161	SY	SLOPE EROSION PROTECTION	
											3,397	3,397		670	00700	3,397	SY	DITCH EROSION PROTECTION	
												LS		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
												LS		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
												LS		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
												200,000		832	30000	200,000	EACH	EROSION CONTROL	
																		DRAINAGE	
								2				2		202	20010	2	EACH	HEADWALL REMOVED	
								6,837				6,837		202	35100	6,837	FT	PIPE REMOVED, 24" AND UNDER	
								46				46		202	35200	46	FT	PIPE REMOVED, OVER 24"	
								10				10		202	58000	10	EACH	MANHOLE REMOVED	
								21				21		202	58100	21	EACH	CATCH BASIN REMOVED	



SHEET NO.	REF NO.	STATION TO STATION	SIDE	202	202	203	203	608	608	608	609	609	609	609	609							
				PAVEMENT REMOVED SY	CURB REMOVED FT	EXCAVATION CY	EMBANKMENT CY	4" CONCRETE WALK SF	8" CONCRETE WALK SF	CURB RAMP SF	COMBINATION CURB AND GUTTER, TYPE 2 FT	CURB, TYPE 2-A FT	COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN FT	CURB, TYPE 3-B, AS PER PLAN FT	CURB, TYPE 6 FT	COMBINATION CURB AND GUTTER, TYPE 9, AS PER PLAN FT						
S.R. 53																						
91		51+36.23 TO 51+50.00				3	3															
92		51+75.00 TO 52+00.00				149	157															
93		52+25.00 TO 52+50.00				235	308															
94		52+75.00 TO 53+00.00				406	1124															
95		53+25.00 TO 53+50.00				305	1678															
96		53+75.00 TO 54+00.00				196	1743															
97		54+25.00 TO 54+50.00				20	993															
98		54+75.00 TO 55+50.00				64	1502															
99		56+00.00 TO 57+00.00				51	1365															
100		57+50.00 TO 58+50.00				141	456															
101		58+75.00 TO 59+25.00				117	280															
102		59+50.00 TO 60+00.00				152	495															
103		60+25.00 TO 61+00.00				302	252															
104		61+50.00 TO 62+50.00				509	178															
105		63+00.00 TO 64+00.00				358	229															
106		64+50.00 TO 65+50.00				187	153															
107		66+00.00 TO 67+00.00				241	109															
108		67+50.00 TO 68+50.00				272	74															
109		69+00.00 TO 70+00.00				178	141															
110		70+50.00 TO 71+50.00				141	172															
111		72+00.00 TO 73+00.00				233	112															
112		73+50.00 TO 74+50.00				176	122															
113		75+00.00 TO 76+00.00				329	101															
114		76+50.00 TO 77+50.00				201	90															
115		78+00.00 TO 79+00.00				332	5															
116		79+50.00 TO 80+50.00				234	88															
117		81+00.00 TO 82+00.00				191	76															
118		82+50.00 TO 83+50.00				221	28															
119		84+00.00 TO 85+00.00				270	12															
120		85+50.00 TO 86+50.00				248	23															
121		87+00.00 TO 88+00.00				173	77															
122		88+50.00 TO 89+50.00				196	60															
123		90+00.00 TO 91+00.00				140	115															
124		91+50.00 TO 92+50.00				212	78															
125		93+00.00 TO 94+00.00				200	115															
126		94+50.00 TO 95+50.00				164	135															
127		96+00.00 TO 97+00.00				209	156															
128		97+50.00 TO 98+50.00				245	143															
129		99+00.00 TO 100+00.00				176	176															
130		100+50.00 TO 101+50.00				218	138															
131		102+00.00 TO 103+00.00				194	97															
132		103+50.00 TO 104+50.00				174	72															
133		105+00.00 TO 106+00.00				205	101															
134		106+50.00 TO 107+50.00				267	43															
135		108+00.00 TO 109+00.00				196	43															
136		109+50.00 TO 110+50.00				158	63															
137		111+00.00 TO 112+00.00				150	17															
TOTALS CARRIED TO NEXT SHEET						9739	13698															

ROADWAY SUBSUMMARY

DESIGN AGENCY



DESIGNER

RJS

REVIEWER

JML 02/08/23

PROJECT ID

110859

SHEET

P.41

TOTAL

290

SHEET NO.	REF NO.	STATION TO STATION		SIDE	202	202	203	203	608	608	608	609	609	609	609	609						
					PAVEMENT REMOVED SY	CURB REMOVED FT	EXCAVATION CY	EMBANKMENT CY	4" CONCRETE WALK SF	8" CONCRETE WALK SF	CURB RAMP SF	COMBINATION CURB AND GUTTER, TYPE 2 FT	CURB, TYPE 2-A FT	COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN FT	CURB, TYPE 3-B, AS PER PLAN FT	CURB, TYPE 6 FT	COMBINATION CURB AND GUTTER, TYPE 9, AS PER PLAN FT					
S.R. 53																						
75	SW-20	116+43	TO	117+20	RT	20	39	3	3	513											39	
75	SW-21	117+55	TO	118+01	RT	30	75			269											75	
75	SW-22	118+36	TO	118+58	RT	13	37			116											37	
75	SW-23	118+93	TO	119+14	RT	2	13			126											13	
STATE ROAD																						
63,88	SW-24	48+74	TO	49+37	LT					268		97										
88	SW-25	48+86	TO	48+95	LT							64										
63,88	SW-26	47+94	TO	48+98	LT/RT					456		103										
63,88	SW-27	48+98	TO	49+35	LT/RT					196												
88	SW-28	50+64	TO	51+48	LT	41	56			366		128										
63,88	SW-29	51+32	TO	51+40	LT							44										
88	SW-30	50+42	TO	51+40	RT					116	301	125										
88,89	SW-31	51+48	TO	52+99	LT					741												
S.R. 53																						
61,62	C-1	51+46	TO	52+79	LT/RT										299							
62	C-2	52+11	TO	53+37	LT							134										
62	C-3	52+13	TO	53+23	RT							123										
62	C-4	52+98	TO	53+92	LT/RT																285	
62	C-5	53+16	TO	53+74	LT/RT								178									
62,63,88	C-6	53+46	TO	58+08	LT							490										
62,63,88	C-7	53+35	TO	58+06	RT							482										
62,63,88	C-8	54+10	TO	58+57	LT/RT										960							
63,88	C-9	58+07	TO	58+66	LT											63						
63,88	C-10	58+08	TO	58+71	LT										66							
63,88	C-11	58+06	TO	58+60	RT										61							
63,88	C-12	58+04	TO	58+53	RT											56						
63,88	C-13	58+75	TO	59+69	LT/RT																285	
63,88	C-14	58+98	TO	59+46	LT/RT								147									
63,64	C-15	59+66	TO	61+67	LT							216										
63,64	C-16	59+52	TO	61+67	RT							222										
63,64	C-17	59+86	TO	61+67	LT/RT										396							
STATE ROAD																						
63,88	C-18	47+86	TO	49+39	LT							164										
63,88	C-19	47+91	TO	49+32	LT										318							
88	C-20	47+94	TO	48+84	LT/RT							92										
63,88	C-21	48+84	TO	49+40	LT/RT									60								
63,88	C-22	48+83	TO	49+35	LT/RT											56						
63,88,89	C-23	50+62	TO	63+78	LT							229										
63,88	C-24	50+56	TO	52+34	LT										387							
63,88	C-25	50+37	TO	51+32	RT									95								
63,88	C-26	50+42	TO	51+32	RT											91						
88	C-27	51+32	TO	52+35	RT							104										
RAMP D																						
62,83	C-28	524+56	TO	525+50	LT								93									
62,83	C-29	524+56	TO	525+50	RT								103									
TOTALS CARRIED FROM PREVIOUS SHEET						28	222	16854	29935	6864		613				186						
TOTALS THIS SHEET						106	220	3	3	3167	301	561	2256	521	282	2360	430	570				
TOTALS CARRIED TO GENERAL SUMMARY						134	442	16857	29938	10031	301	1174	2256	521	282	2360	616	570				

ROADWAY SUBSUMMARY

DESIGN AGENCY



DESIGNER

RJS

REVIEWER

JML 02/08/23

PROJECT ID

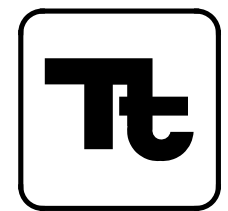
110859

SHEET TOTAL

P.43 | 290

STATION RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	202	204	206	206	206	254	254	302	304	407	441	442	442	452	452	452	452			
									PAVEMENT REMOVED SY	PROOF ROLLING (ALTERNATE 1) HOUR	CEMENT (ALTERNATE 1) TON	CURING COAT (ALTERNATE 1) SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP (ALTERNATE 1) SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1 1/2" SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3 1/2" SY	ASPHALT CONCRETE BASE, PG64- 22, (449) CY	AGGREGATE BASE CY	NON-TRACKING TACK COAT GAL	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449) CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446) CY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN (CENTER ISLAND RIBBON) SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P (TRUCK APRON) SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN (SPLITTER ISLANDS) SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P SY			
S.R. 53 INTERCHANGE SOUTH LEG																												
51+46.00	TO	53+45.00		RT & LT			9650.85										128.68			44.68	59.57							
51+46.00	TO	53+45.00		RT & LT			10735.42									198.80												
51+46.00	TO	53+45.00		RT & LT			9775.87									181.03												
51+46.00	TO	53+45.00		RT & LT			15558.94																					
51+46.00	TO	53+45.00		RT & LT			10075.67	1119.52			52.19	1728.77	1728.77															
51+46.00	TO	52+78.00		RT & LT			1022.19									9.46								113.58				
S.R. 53 INTERCHANGE INNER APRON																												
52+99.67	TO	53+90.33		RT & LT			3844.43																	427.16				
52+99.67	TO	53+90.33		RT & LT			4958.65									91.83												
53+16.67	TO	53+90.33		RT & LT			1024.42														113.82							
S.R. 53 BETWEEN ROUNDABOUTS																												
53+45.00	TO	58+74.70		RT & LT			20559.75									380.74		274.13		95.18	126.91							
53+45.00	TO	58+74.70		RT & LT			27316.47									505.86												
53+45.00	TO	58+74.70		RT & LT			32314.88			108.39	3590.54	3590.54																
53+45.00	TO	58+74.70		RT & LT			44681.91	4964.66																				
54+11.75	TO	58+55.00		RT & LT			3530.48									32.69								392.28				
S.R. 53 ROUNDABOUT INNER APRON																												
58+76.37	TO	59+67.70		RT & LT			4671.72																	519.08				
58+76.37	TO	59+67.70		RT & LT			5566.02									103.07												
58+98.37	TO	59+45.04		RT & LT			820.22														91.14							
S.R. 53 ROUNDABOUT NORTH LEG																												
58+74.70	TO	61+67.09		RT & LT			13603.09	1511.45																				
59+68.70	TO	61+67.09		RT & LT			8320.60									154.09		110.94		38.52	51.36							
59+68.70	TO	61+67.09		RT & LT			11013.85									203.96												
59+68.70	TO	61+67.09		RT & LT			11708.50																					
59+88.00	TO	61+67.09		RT & LT			1444.23									13.37								160.47				
STATE ROAD WEST LEG																												
46+49.11	TO	49+48.77		RT & LT			13251.06																					
46+49.11	TO	49+48.77		RT & LT			13344.55									247.12					61.35	81.80						
46+49.11	TO	49+48.77		RT & LT			15548.02									287.93												
46+49.11	TO	49+48.77		RT & LT			16172.56																					
46+49.11	TO	49+67.52		RT & LT			9868.34	1096.48			54.25	1796.95	1796.95															
47+91.00	TO	49+29.00		LT			1044.30									9.67								116.03				
STATE ROAD EAST LEG																												
50+26.21	TO	54+09.12		RT & LT			12660.92	1406.77																				
50+42.76	TO	54+09.12		RT & LT			14867.00																					
50+42.76	TO	54+09.12		RT & LT			14942.67																					
50+42.76	TO	54+09.12		RT & LT			17945.17																					
50+42.76	TO	54+09.12		RT & LT			18648.32									332.32												
50+62.00	TO	52+33.69		LT			1451.79									13.44								161.31				
STATE ROAD S.W. CORNER							609.85										11.29						67.76					
STATE ROAD S.W. CORNER							852.26				2.86	94.70	94.70															
STATE ROAD S.E. CORNER							929.61										17.22							103.29				
STATE ROAD S.E. CORNER							1207.22				4.05	134.14	134.14															
SUBTOTALS								10098.88	5.70	342.22	11336.52	11336.52				1239.69	1830.92	888.66		308.56	411.42	204.96	1117.29	943.67				
TOTALS CARRIED TO GENERAL SUMMARY								10099	6	342	11337	11337				1240	1831	889		309	411	205	1117	944				

PAVEMENT SUBSUMMARY

DESIGN AGENCY

 DESIGNER: KSK
 REVIEWER: JML 02/08/23
 PROJECT ID: 110859
 SHEET TOTAL: P.45 | 290

STATION RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	202	204	206	206	206	254	254	302	304	407	441	442	442	452	452	452	452	
							PAVEMENT REMOVED SY	PROOF ROLLING (ALTERNATE 1) HOUR	CEMENT (ALTERNATE 1) TON	CURING COAT (ALTERNATE 1) SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP (ALTERNATE 1) SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1 1/2" SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3 1/2" SY	ASPHALT CONCRETE BASE, PG64- 22, (449) CY	AGGREGATE BASE CY	NON-TRACKING TACK COAT GAL	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449) CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446) CY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN (CENTER ISLAND RIBBON) SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P (TRUCK APRON) SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN (SPLITTER ISLANDS) SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P SY	
RAMP C																								
516+51.19	TO	518+50.82				7785.93										103.81		36.05	48.06					
516+51.19	TO	518+50.82				7857.02								145.50										
516+51.19	TO	518+50.82				8187.72								202.17										
516+51.19	TO	524+08.07				24334.30		1.4	81.62	2703.81	2703.81													
516+51.19	TO	524+08.07				20981.08	2331.23																	
518+50.82	TO	524+08.07				14022.40																	1558.04	
518+50.82	TO	524+08.07				14862.40								275.23										
RAMP D																								
524+55.81		531+91.52				18217.82																	2024.20	
524+55.81		531+91.52				19542.52								361.90										
524+55.81		539+91.52				43726.75		2.4	146.67	4858.53	4858.53													
524+55.81		539+91.52				35877.77	3986.42																	
531+91.52		539+91.52				21698.64									289.32		100.46	133.94						
531+91.52		539+91.52				21964.95								406.76										
531+91.52		539+91.52				23337.00								576.22										
S.R. 53 WIDENING SECTION																								
61+67.09	TO	76+50.00				77129.38										850.44		357.08	476.11					
61+67.09	TO	76+50.00				51397.73								951.81										
61+67.09	TO	76+50.00				52876.97								979.20										
61+67.09	TO	76+50.00				26692.42						2965.82			266.92	41.19								
61+67.09	TO	76+50.00				22992.97	2554.77																	
61+67.09	TO	76+50.00				54867.67		3.0	184.04	6096.41	6096.41													
76+50.00	TO	103+76.43		2726.43	34.00	10299.85							5452.86	1750.30	1800.79	2217.50	215.00	656.36	875.15					
79+36.93	TO	80+17.41																						
103+76.43	TO	110+60.68		684.25		20800.94	1156.56						1642.40	393.65	406.32	572.98	53.96	164.73	219.65					
110+60.68	TO	111+60.09		99.41		1097.43	66.03						480.17	20.94	21.86	101.06	7.84	25.09	33.45					
111+60.09 / 1561+58.01	TO	124+28.78 / 1584+48.18		3435.80		200943.69						22327.08		6.65	6.65	1339.62		931.96	2.22					
76+50.00	TO	110+60.68		3410.68	37.00	14021.68		7.0	423.28	14021.68	14021.68													
110+60.68	TO	111+60.09		99.41	12.50	138.07		0.1	4.17	138.07	138.07													
SUBTOTALS							14438.67	13.9	839.77	27818.50	27818.50	22327.08	10541.25	3675.60	4630.34	5741.65	317.99	2271.72	1788.57					3582.25
TOTALS CARRIED TO GENERAL SUMMARY							14439	14	840	27819	27819	22327	10541	3676	4630	5742	318	2272	1789					3582

PAVEMENT SUBSUMMARY

DESIGN AGENCY

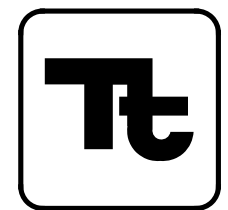
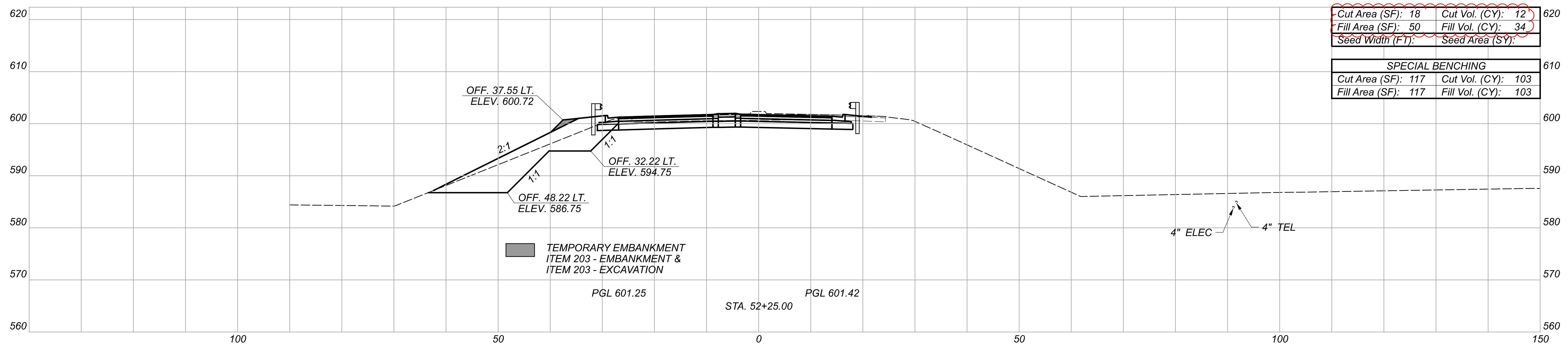
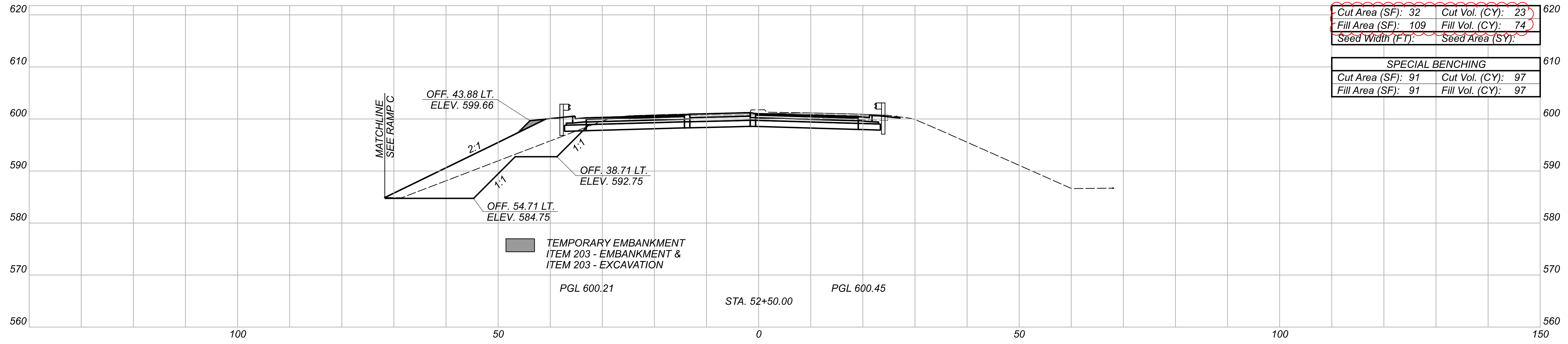


DESIGNER
KSK

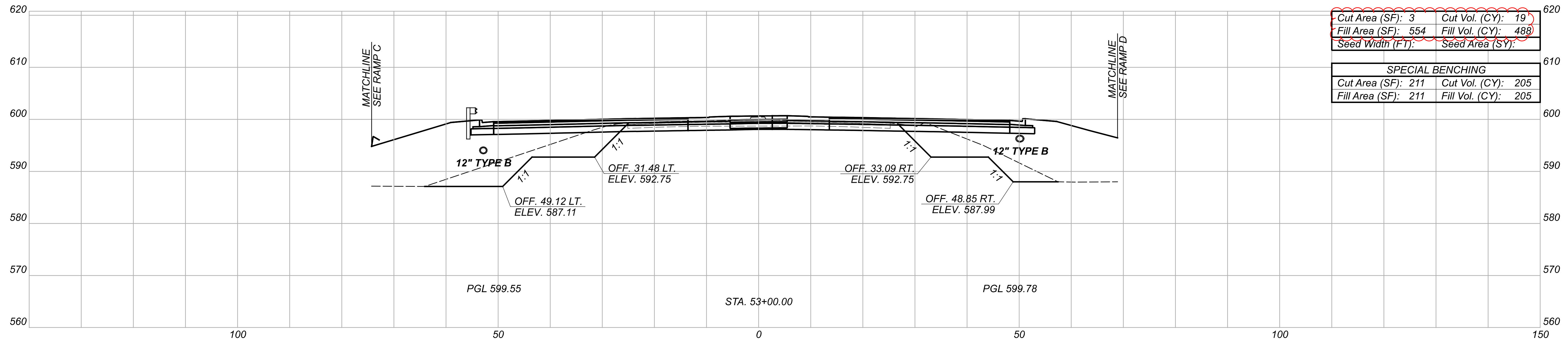
REVIEWER
JML 02/08/23

PROJECT ID
110859

SHEET TOTAL
P.46 290

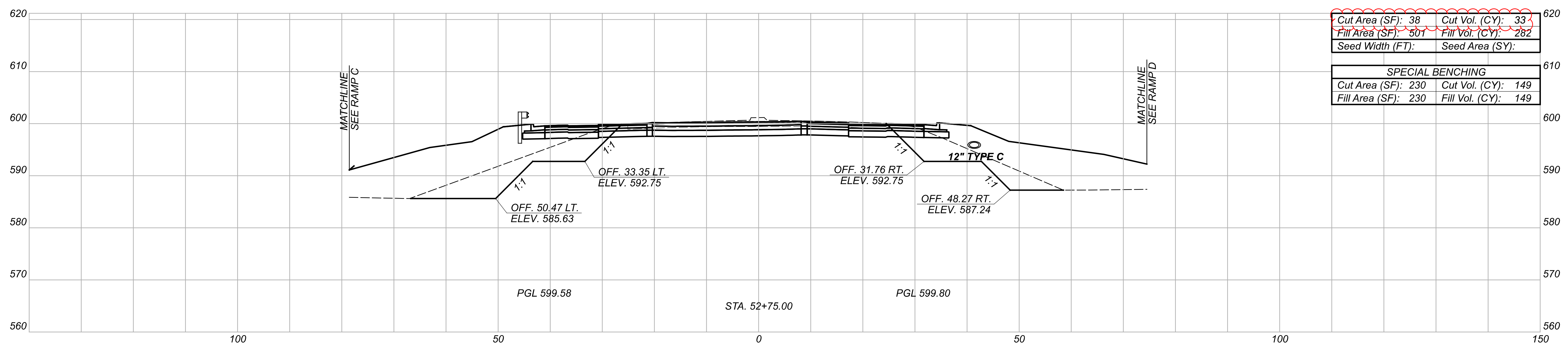


Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.93	290
.	235	308		



Cut Area (SF): 3	Cut Vol. (CY): 19
Fill Area (SF): 554	Fill Vol. (CY): 488
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 211	Cut Vol. (CY): 205
Fill Area (SF): 211	Fill Vol. (CY): 205

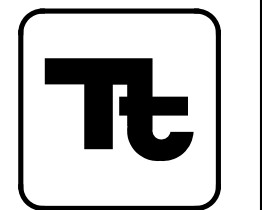


Cut Area (SF): 38	Cut Vol. (CY): 33
Fill Area (SF): 501	Fill Vol. (CY): 282
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 230	Cut Vol. (CY): 149
Fill Area (SF): 230	Fill Vol. (CY): 149

Sheet Totals		
Seeding	Cut	Fill
.	406	1124

DESIGN AGENCY



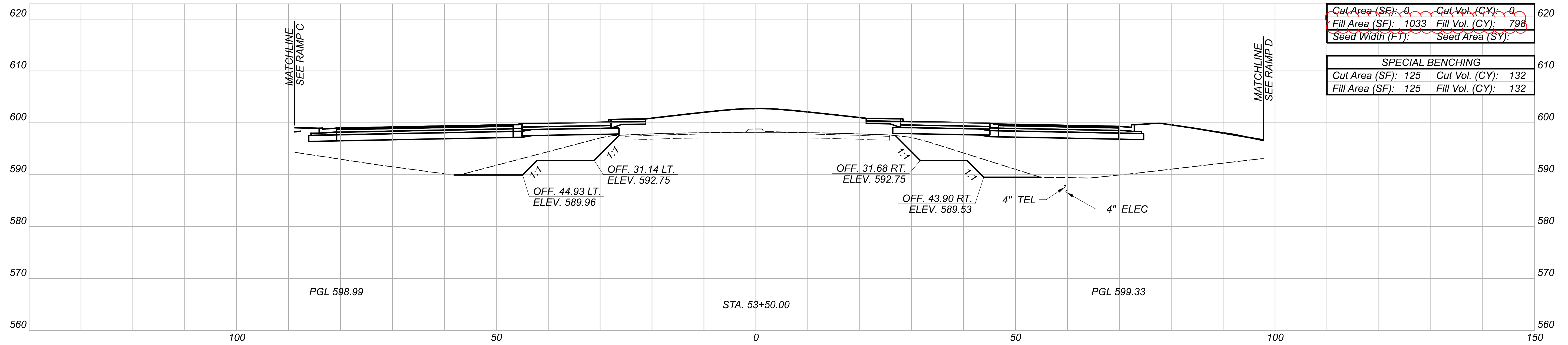
DESIGNER
RJS

REVIEWER
AJL 02/08/23

PROJECT ID
110859

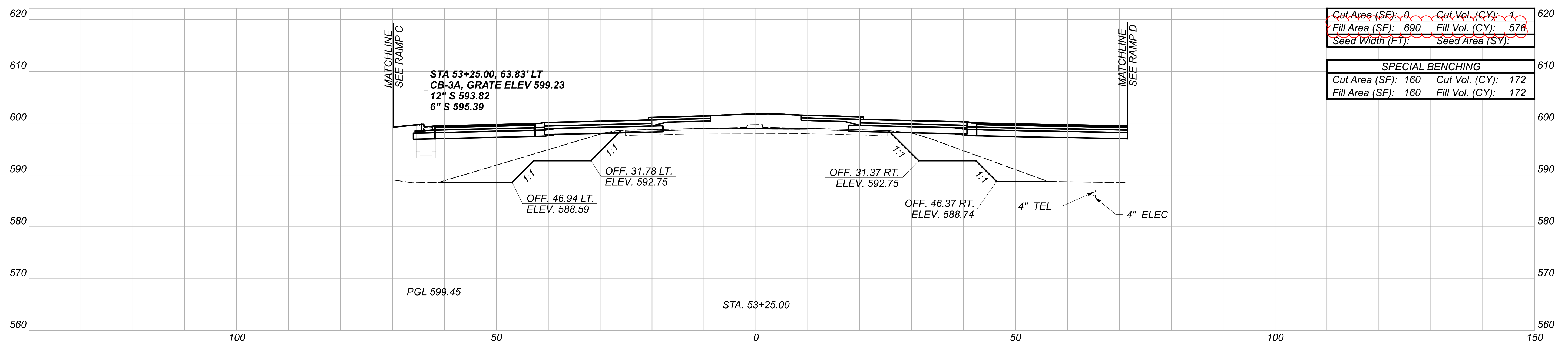
SHEET TOTAL
P.94 290

CROSS SECTIONS - SR 53
 STA. 52+75 TO STA. 53+00



Cut Area (SF): 0	Cut Vol. (CY): -0
Fill Area (SF): 1033	Fill Vol. (CY): 798
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 125	Cut Vol. (CY): 132
Fill Area (SF): 125	Fill Vol. (CY): 132



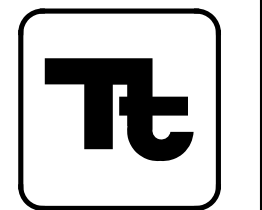
Cut Area (SF): 0	Cut Vol. (CY): 1
Fill Area (SF): 690	Fill Vol. (CY): 576
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 160	Cut Vol. (CY): 172
Fill Area (SF): 160	Fill Vol. (CY): 172

Sheet Totals			110859	
Seeding	Cut	Fill	SHEET	TOTAL
.	305	1678	P.95	290

CROSS SECTIONS - SR 53
 STA. 53+25 TO STA. 53+50

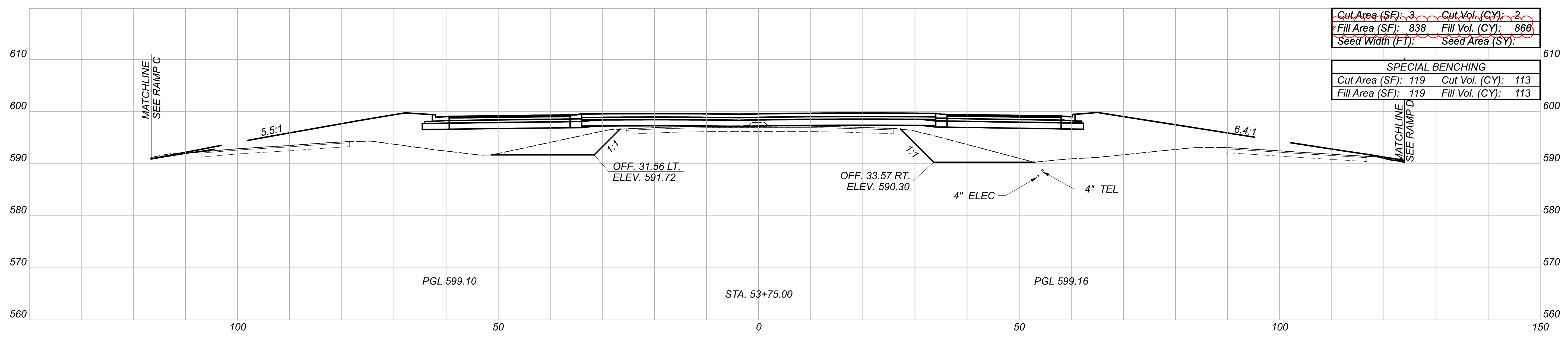
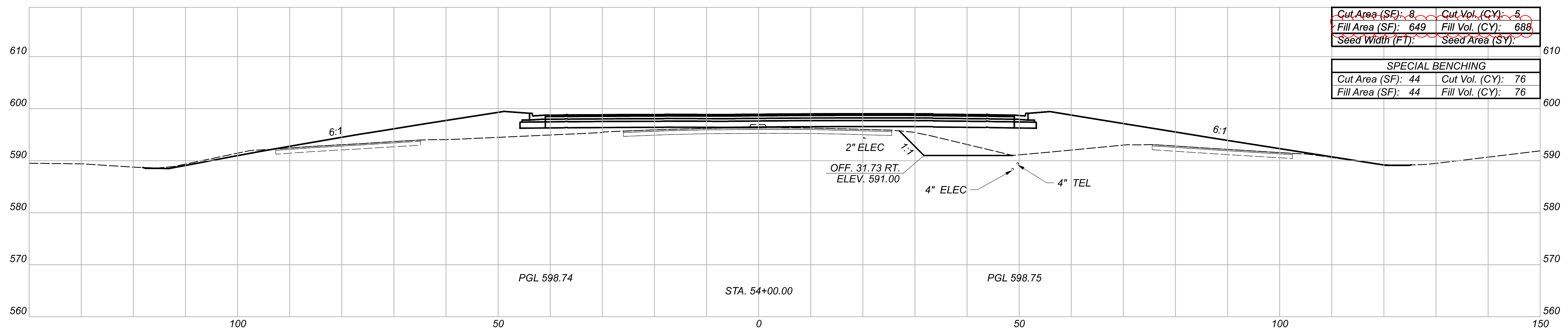
DESIGN AGENCY



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 RJS

REVIEWER
 AJL 02/08/23

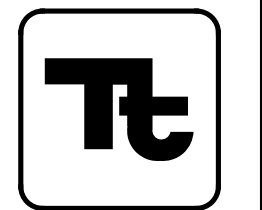
PROJECT ID
 110859



Sheet Totals		
Seeding	Cut	Fill
.	196	1743

CROSS SECTIONS - SR 53
 STA. 53+75 TO STA. 54+00

DESIGN AGENCY

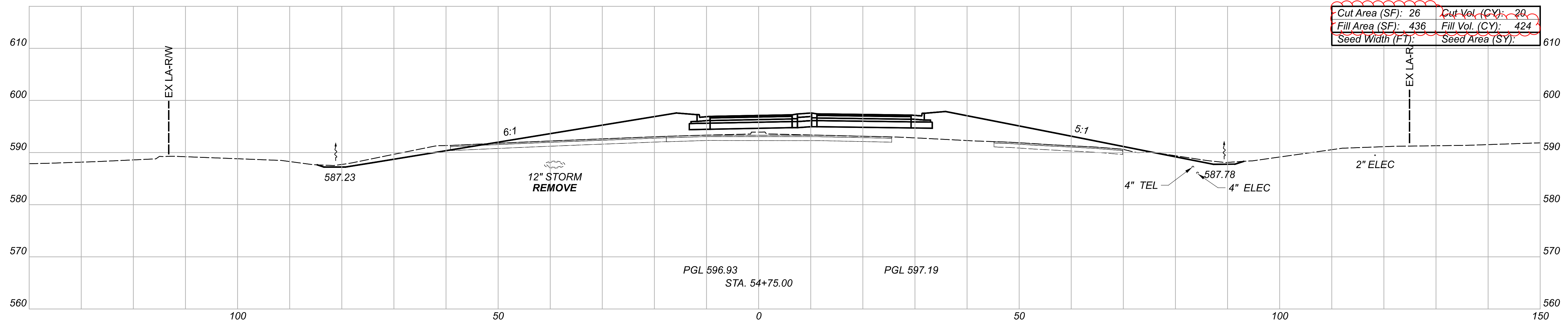
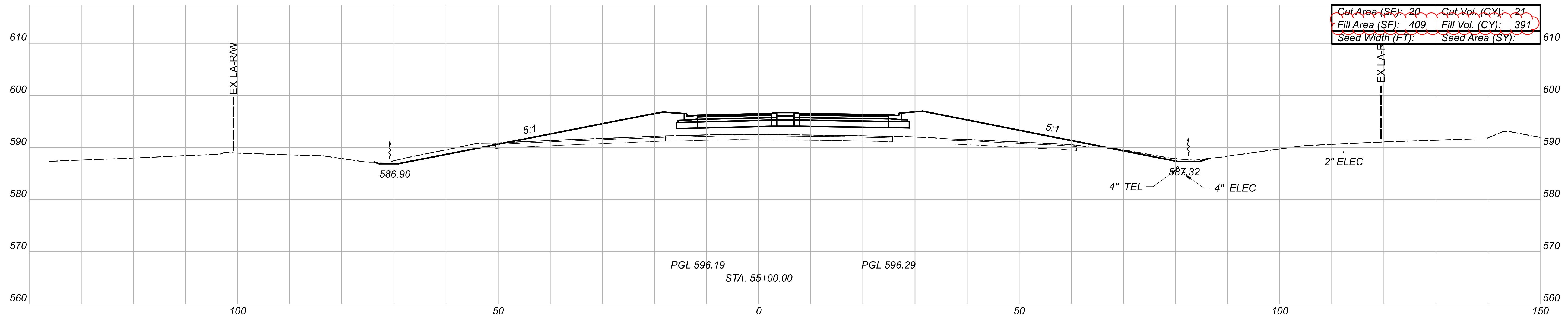
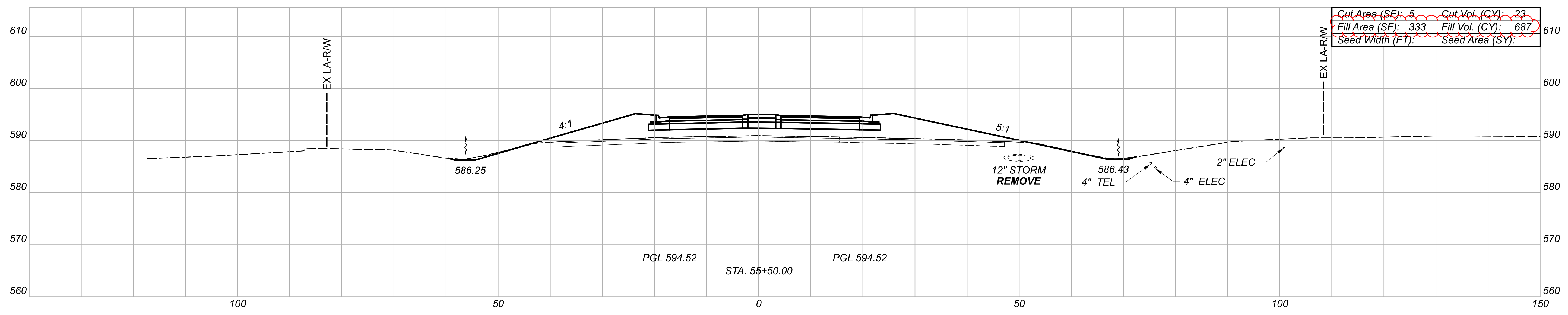


DESIGNER
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REVIEWER
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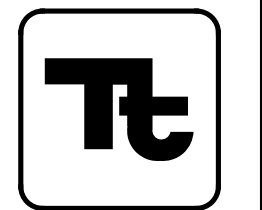
PROJECT ID
110859

SHEET TOTAL
P.96 290



CROSS SECTIONS - SR 53
 STA. 54+75 TO STA. 55+50

DESIGN AGENCY



DESIGNER

RJS

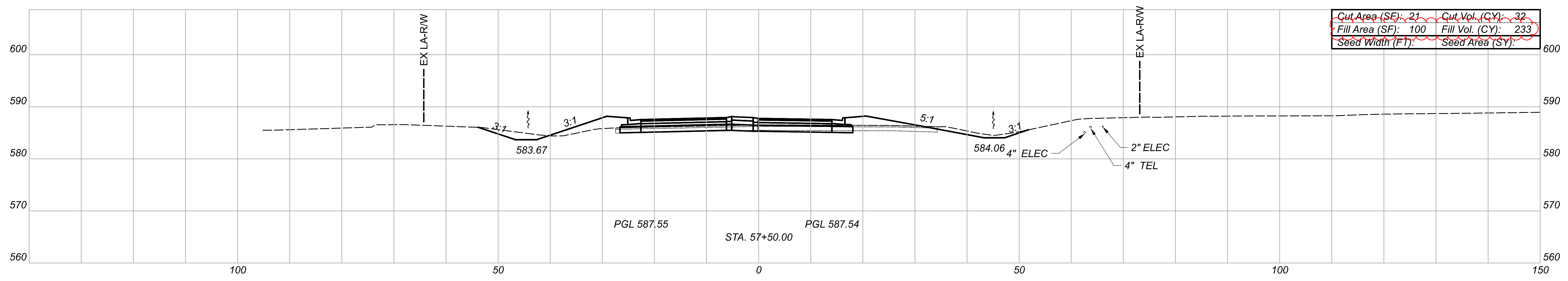
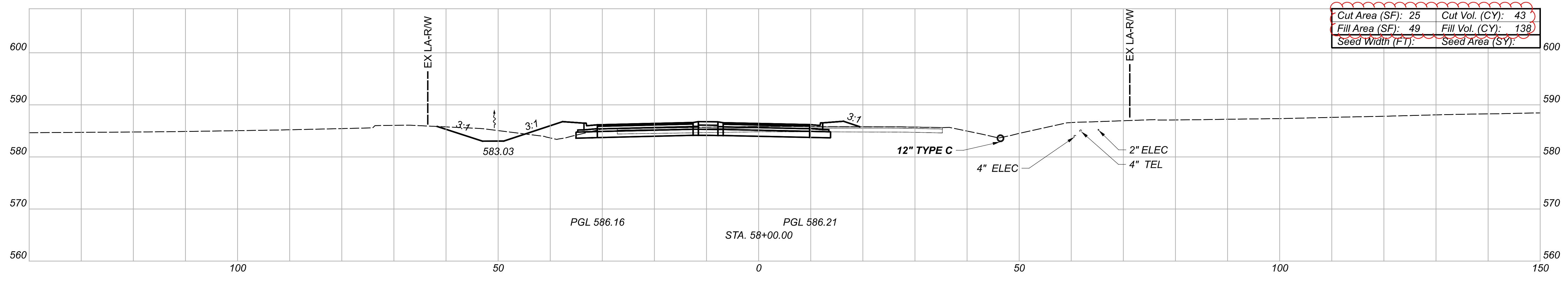
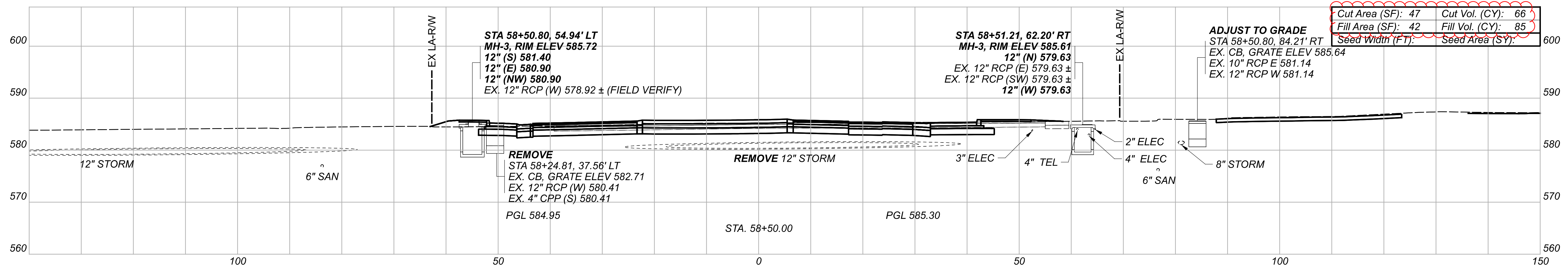
REVIEWER

AJL 02/08/23

PROJECT ID

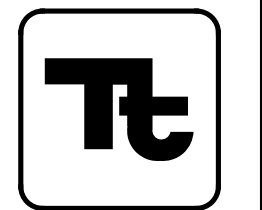
110859

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill	P.98	290
.	64	1502		



CROSS SECTIONS - SR 53
 STA. 57+50 TO STA 58+50

DESIGN AGENCY



DESIGNER

RJS

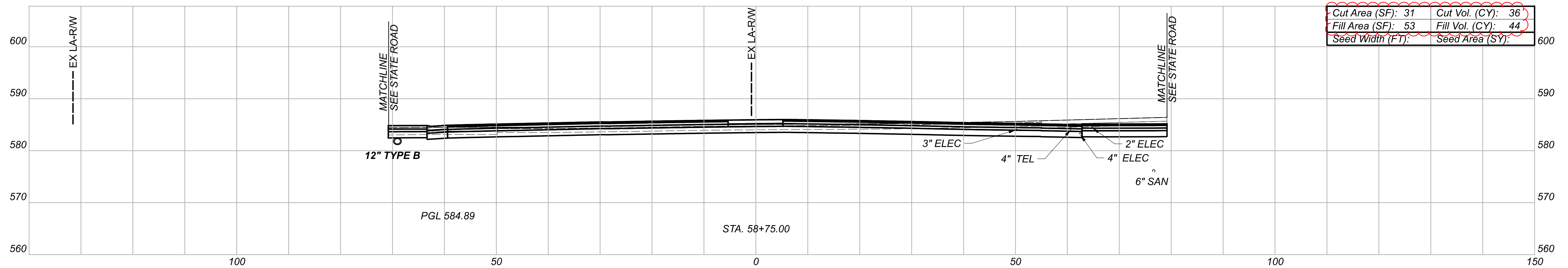
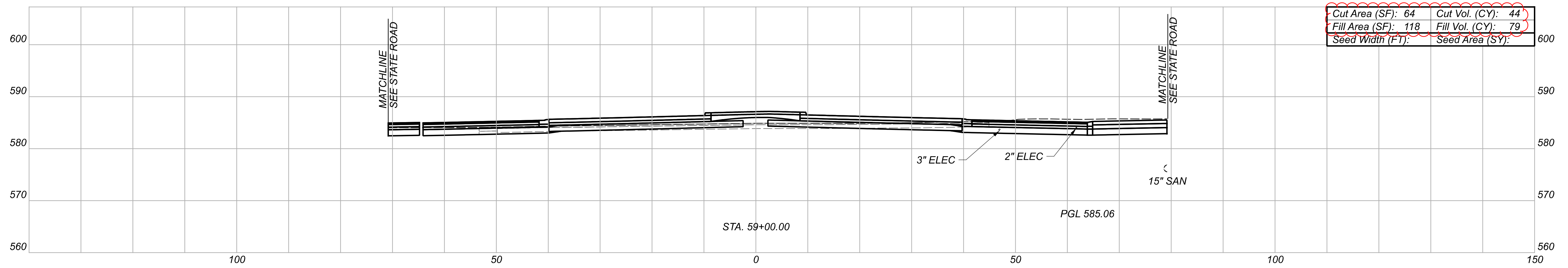
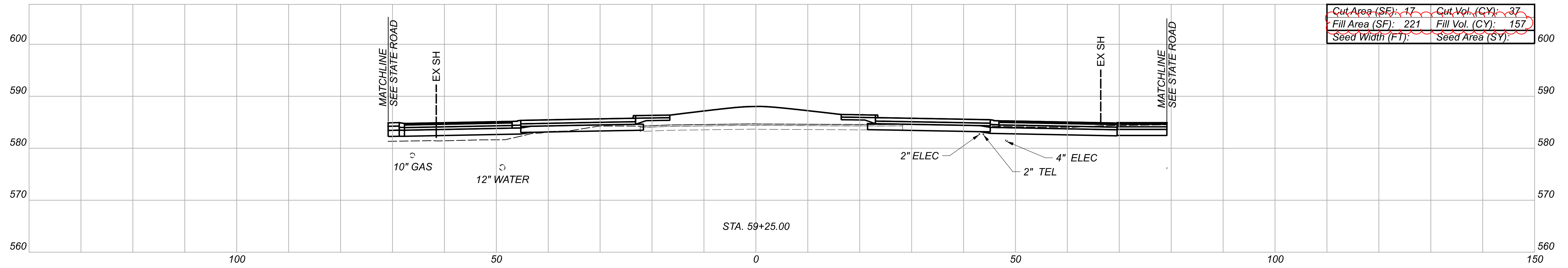
REVIEWER

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PROJECT ID

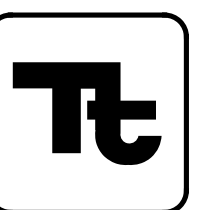
110859

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
	141	456	P.100	290



CROSS SECTIONS - SR 53
 STA. 58+75 TO STA. 59+25

DESIGN AGENCY



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RJS

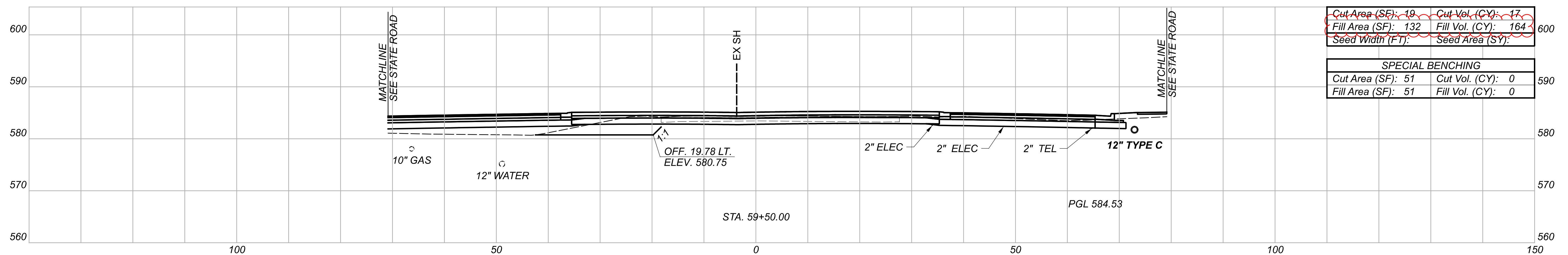
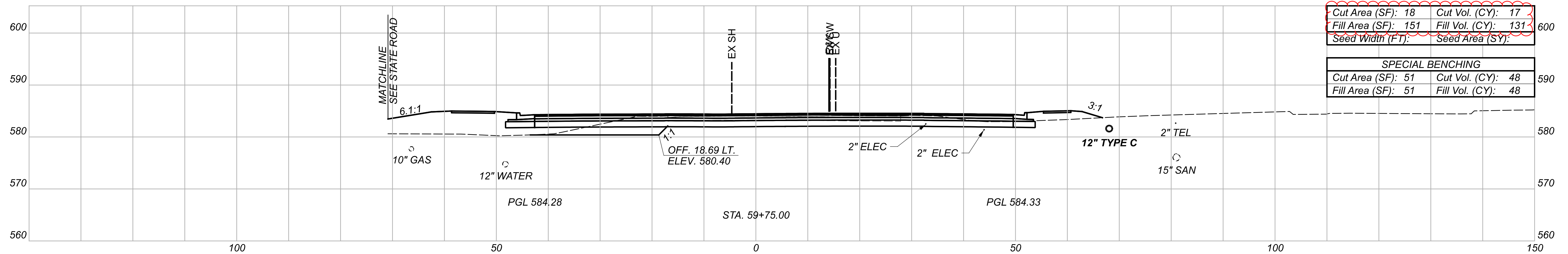
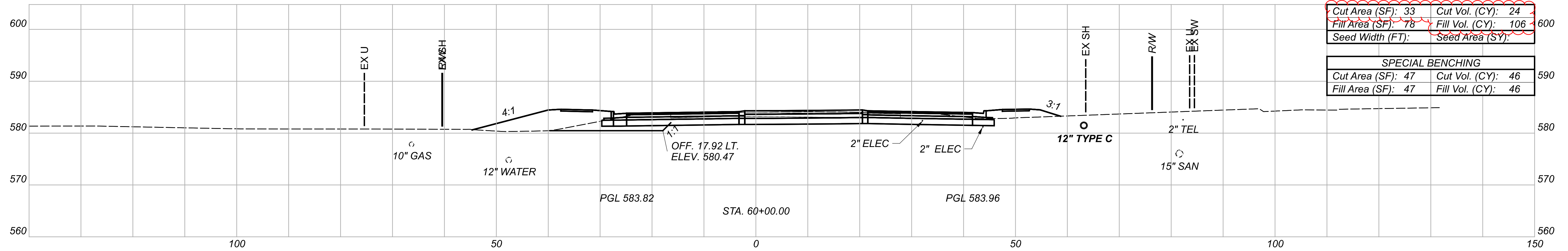
REVIEWER

AJL 02/08/23

PROJECT ID

110859

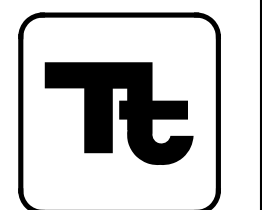
Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
·	117	280	P.101	290



Sheet Totals		
Seeding	Cut	Fill
·	152	495

CROSS SECTIONS - SR 53
 STA. 59+50 TO STA. 60+00

DESIGN AGENCY

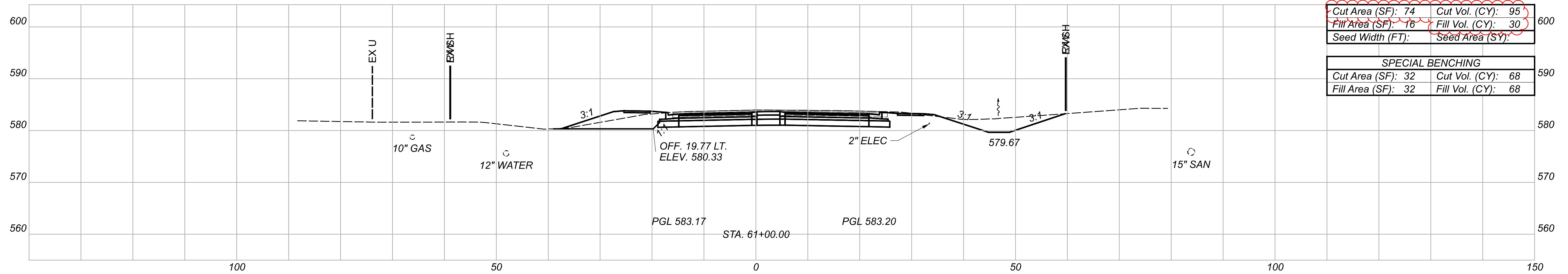


DESIGNER
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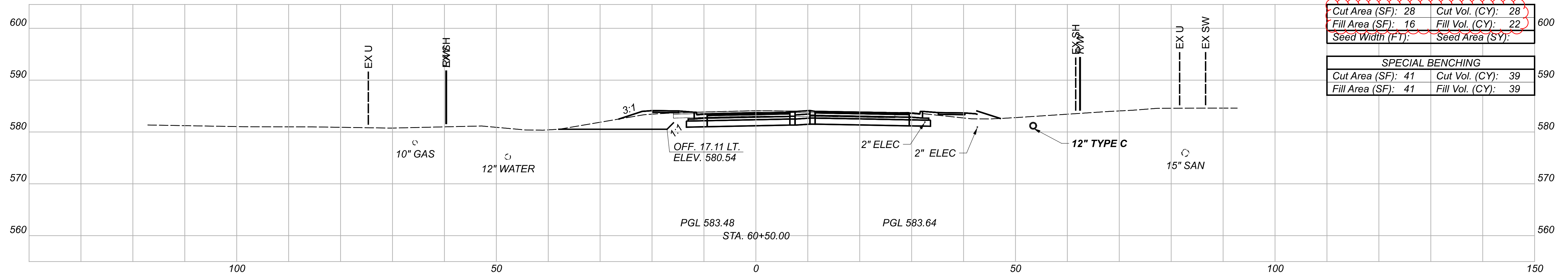
PROJECT ID
 110859

SHEET	TOTAL
P.102	290



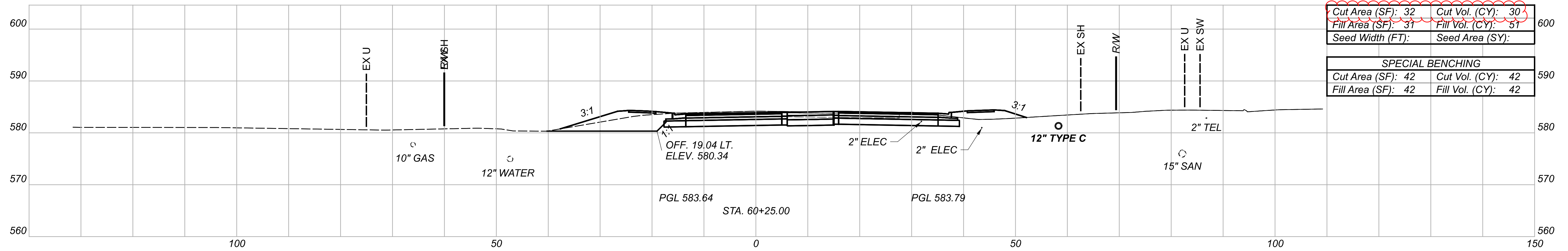
Cut Area (SF): 74	Cut Vol. (CY): 95
Fill Area (SF): 16	Fill Vol. (CY): 30
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 32	Cut Vol. (CY): 68
Fill Area (SF): 32	Fill Vol. (CY): 68



Cut Area (SF): 28	Cut Vol. (CY): 28
Fill Area (SF): 16	Fill Vol. (CY): 22
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 41	Cut Vol. (CY): 39
Fill Area (SF): 41	Fill Vol. (CY): 39



Cut Area (SF): 32	Cut Vol. (CY): 30
Fill Area (SF): 31	Fill Vol. (CY): 51
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 42	Cut Vol. (CY): 42
Fill Area (SF): 42	Fill Vol. (CY): 42

Sheet Totals		
Seeding	Cut	Fill
	302	252

CROSS SECTIONS - SR 53
 STA. 60+25 TO STA. 61+00

DESIGN AGENCY

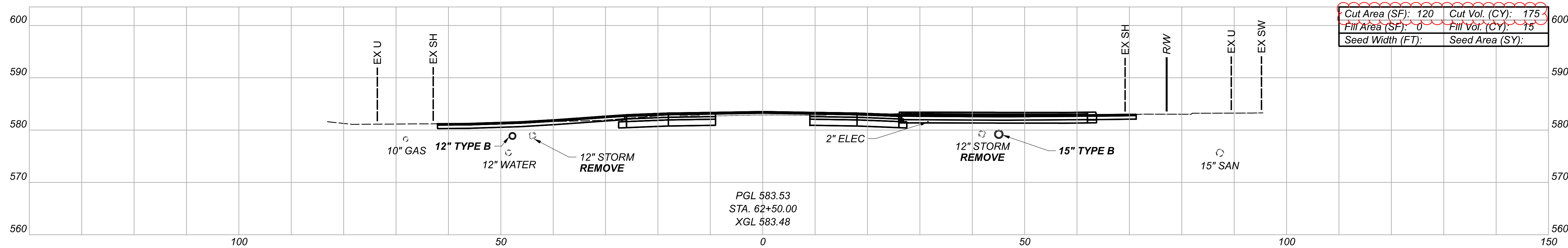


DESIGNER
 RJS

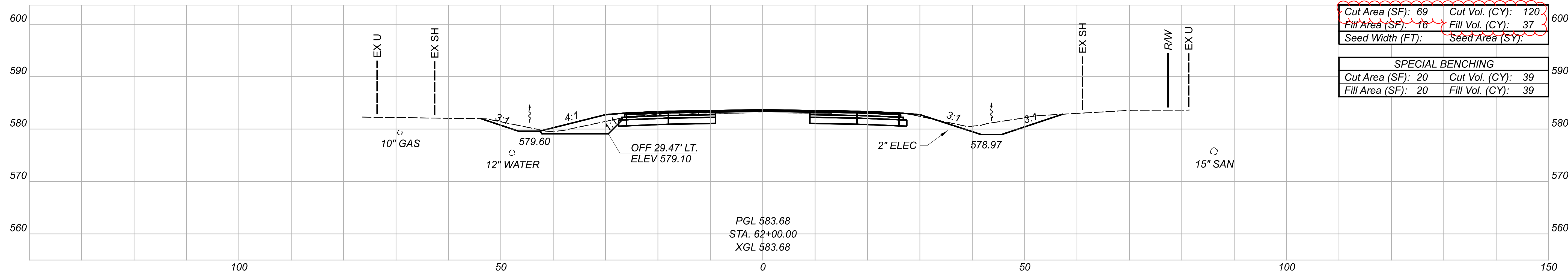
REVIEWER
 AJL 02/08/23

PROJECT ID
 110859

SHEET	TOTAL
P.103	290

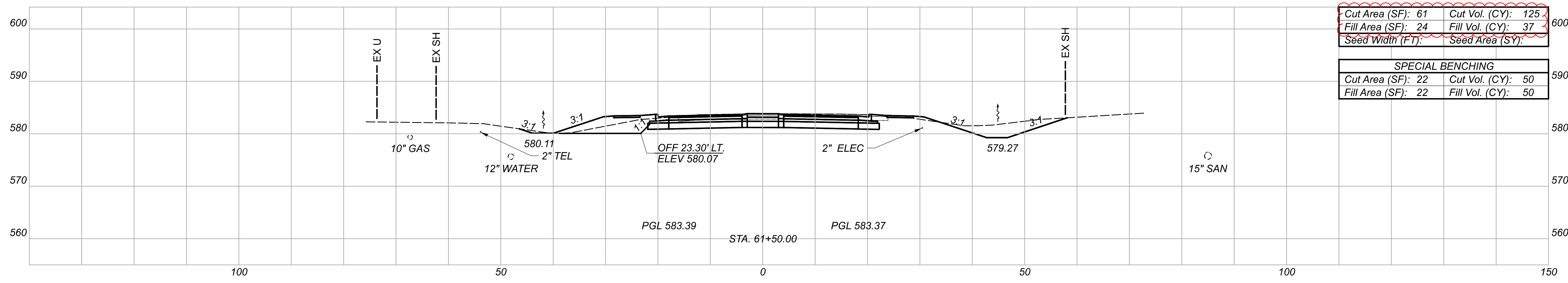


Cut Area (SF): 120	Cut Vol. (CY): 175
Fill Area (SF): 0	Fill Vol. (CY): 15
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 69	Cut Vol. (CY): 120
Fill Area (SF): 16	Fill Vol. (CY): 37
Seed Width (FT):	Seed Area (SY):

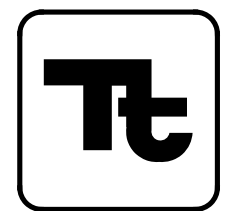
SPECIAL BENCHING	
Cut Area (SF): 20	Cut Vol. (CY): 39
Fill Area (SF): 20	Fill Vol. (CY): 39



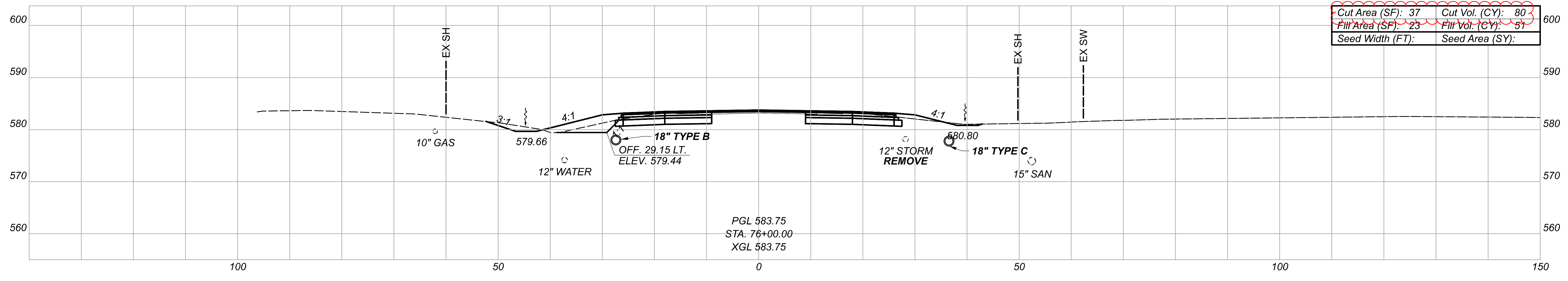
Cut Area (SF): 61	Cut Vol. (CY): 125
Fill Area (SF): 24	Fill Vol. (CY): 37
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 22	Cut Vol. (CY): 50
Fill Area (SF): 22	Fill Vol. (CY): 50

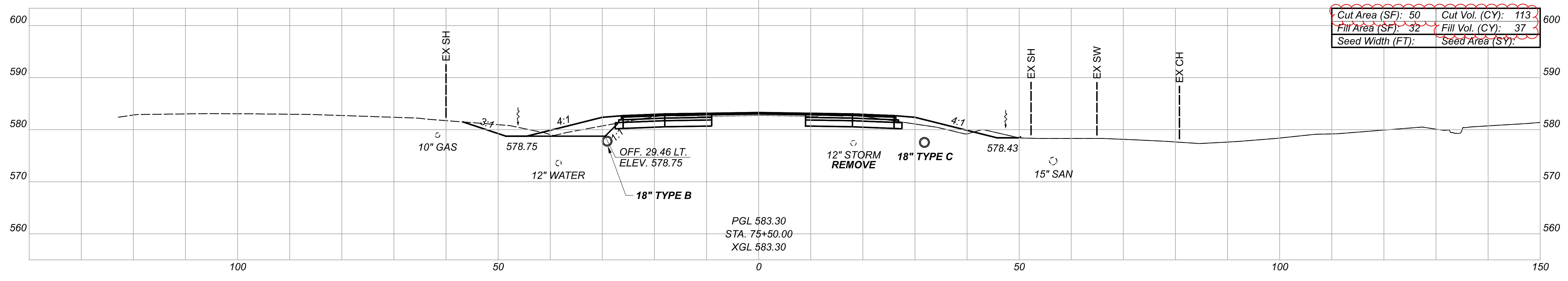
CROSS SECTIONS - SR 53
 STA. 61+50 TO STA. 62+50

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 110859

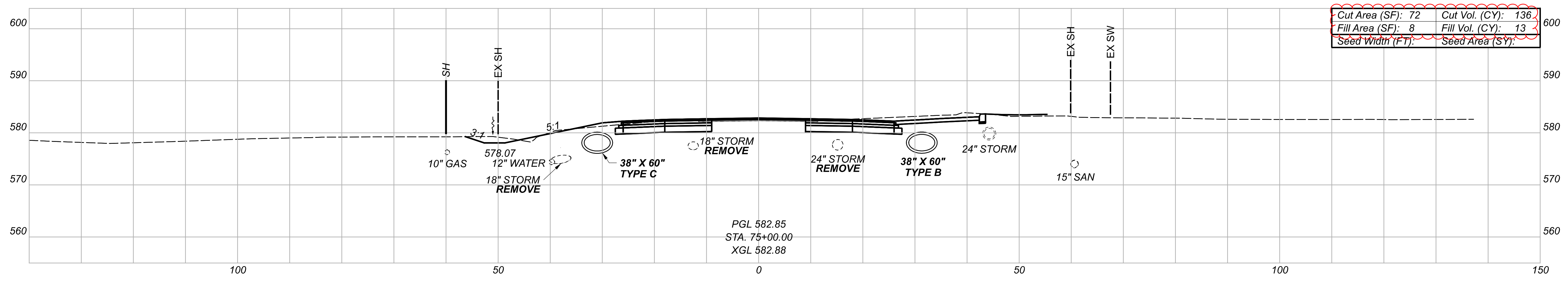
Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.104	290
	509	178		



Cut Area (SF): 37	Cut Vol. (CY): 80
Fill Area (SF): 23	Fill Vol. (CY): 51
Seed Width (FT):	Seed Area (SY):



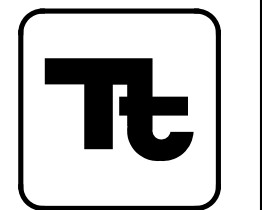
Cut Area (SF): 50	Cut Vol. (CY): 113
Fill Area (SF): 32	Fill Vol. (CY): 37
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 72	Cut Vol. (CY): 136
Fill Area (SF): 8	Fill Vol. (CY): 13
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - SR 53
 STA. 75+00 TO STA. 76+00

DESIGN AGENCY

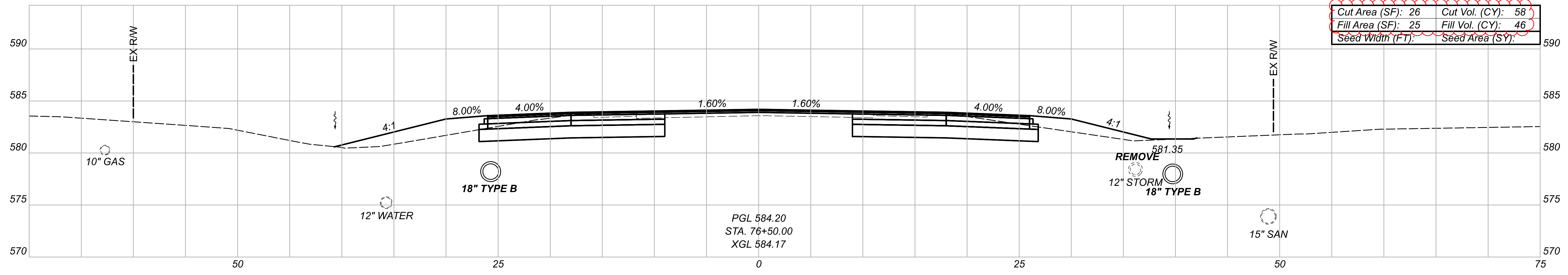
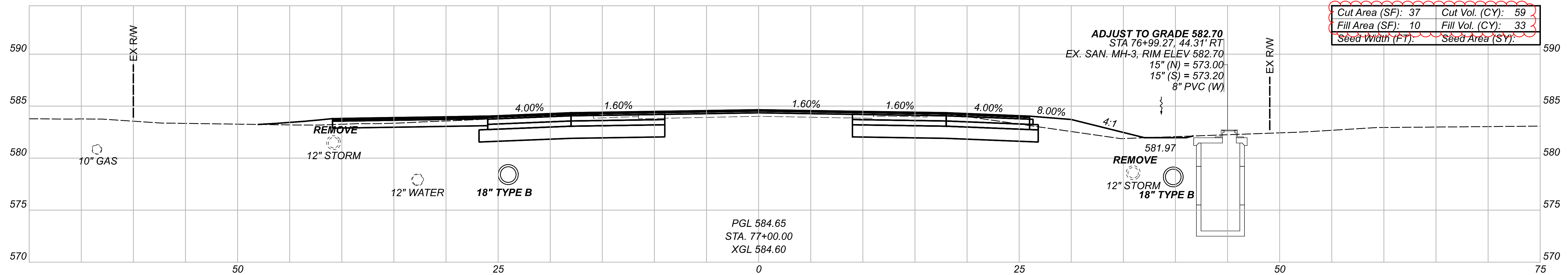
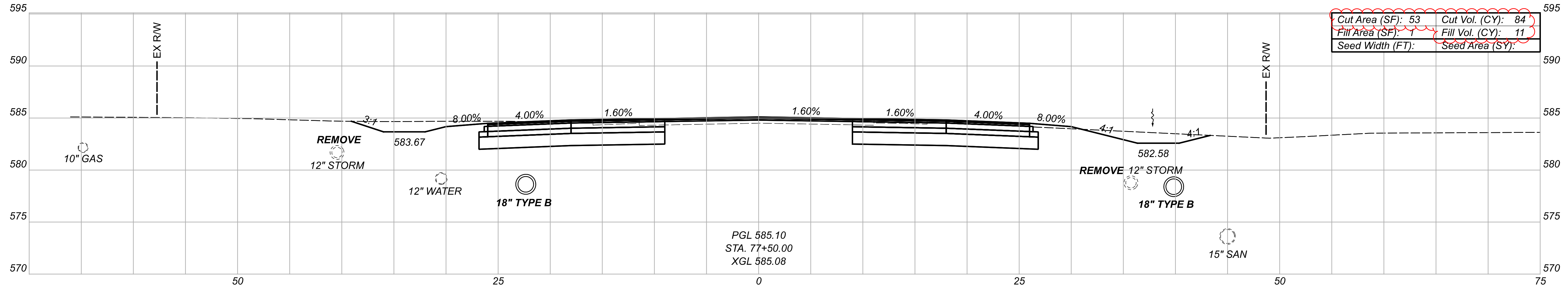


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 110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.113	290
.	329	101		



CROSS SECTIONS - SR 53
 STA. 76+50 TO STA. 77+50

DESIGN AGENCY

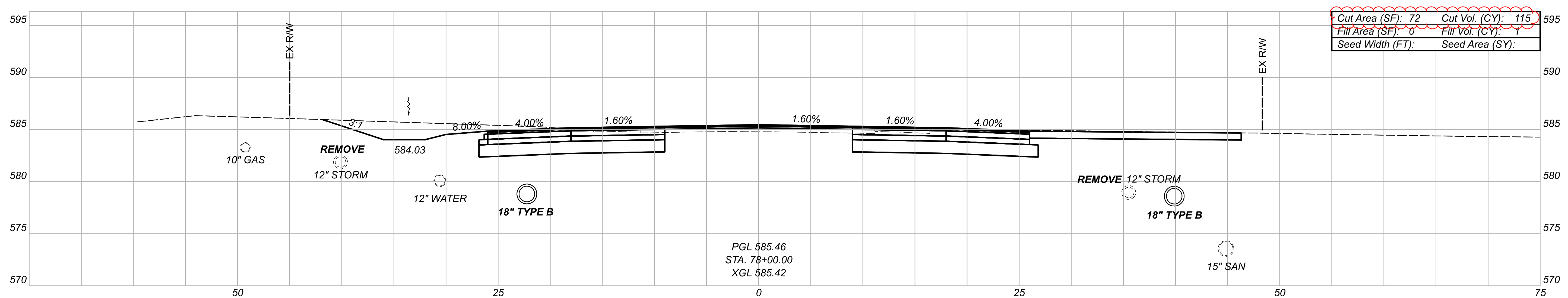
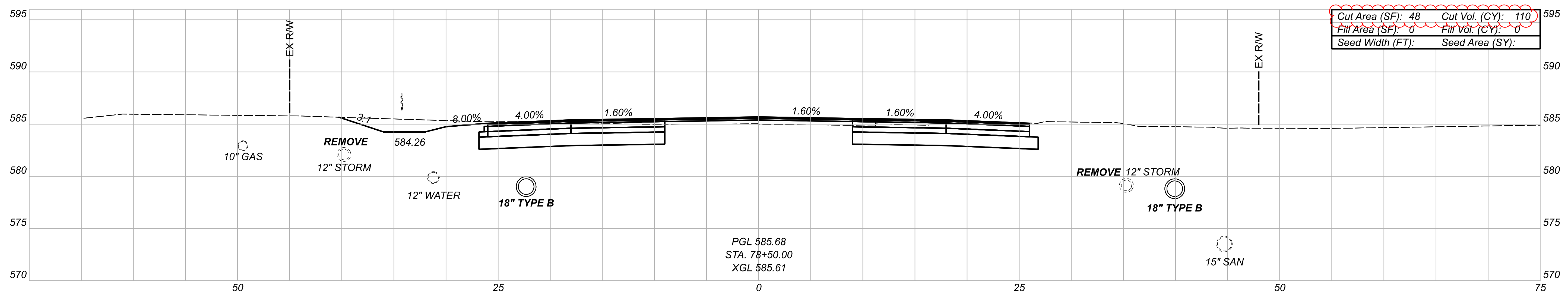
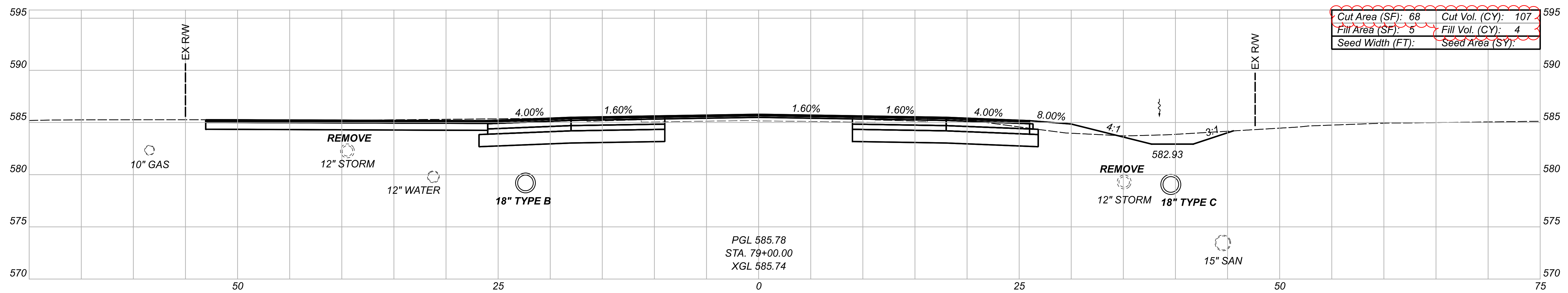
BERGMANN
 ARCHITECTS ENGINEERS PLANNERS
 3400 Bricefield Blvd, Ste. C,
 Wooster, OH 43087

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MAS

REVIEWER
 XF 02/08/23

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 110859

Sheet Totals			110859
Seeding	Cut	Fill	SHEET TOTAL
.	201	90	P.114 290

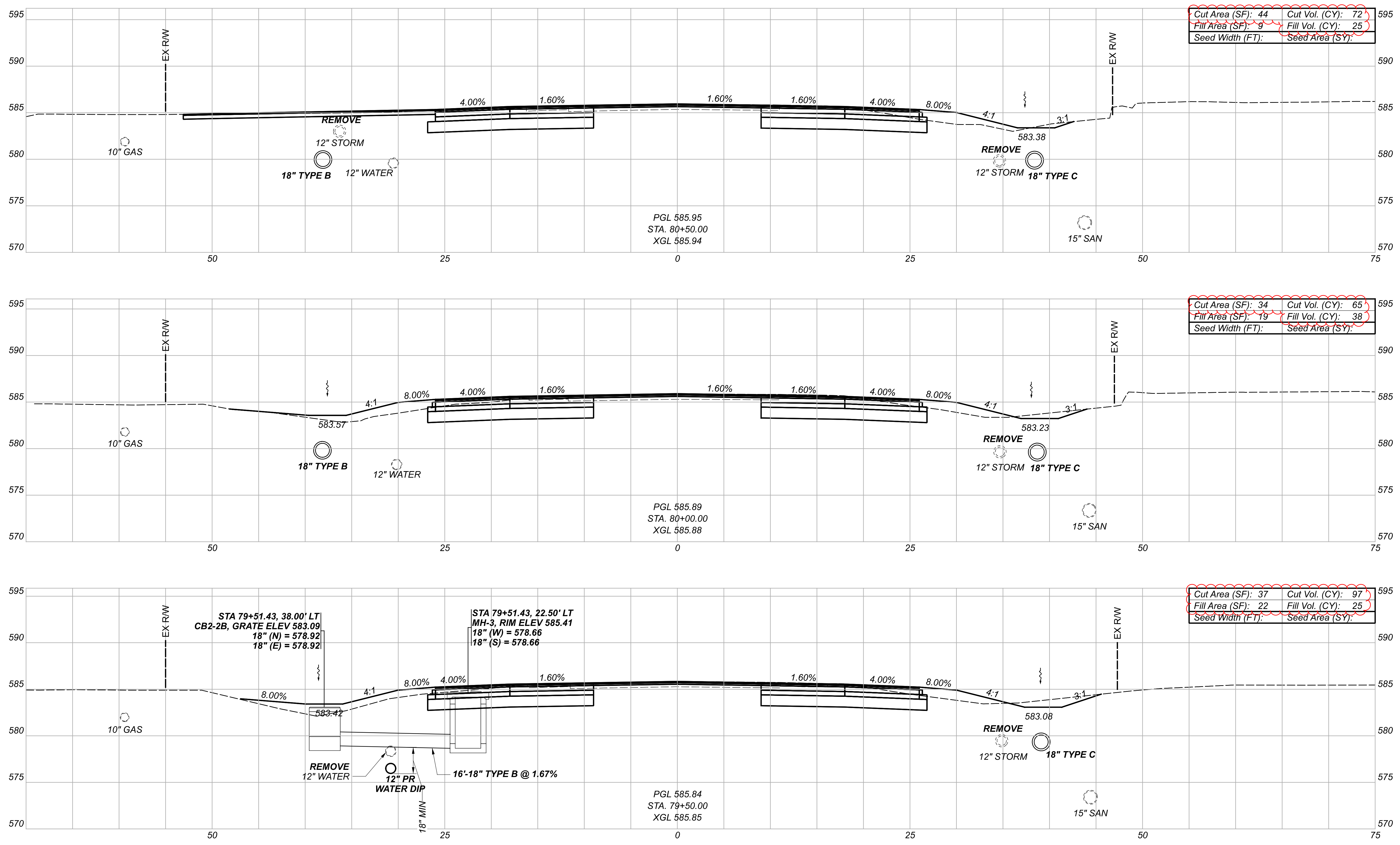


CROSS SECTIONS - SR 53
 STA. 78+00 TO STA. 79+00



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 REVIEWER: XF 02/08/23
 PROJECT ID: 110859

Sheet Totals		
Seeding	Cut	Fill
.	332	5
SHEET P.115	TOTAL 290	



Cut Area (SF): 44	Cut Vol. (CY): 72
Fill Area (SF): 9	Fill Vol. (CY): 25
Seed Width (FT):	Seed Area (SY):

Cut Area (SF): 34	Cut Vol. (CY): 65
Fill Area (SF): 19	Fill Vol. (CY): 38
Seed Width (FT):	Seed Area (SY):

Cut Area (SF): 37	Cut Vol. (CY): 97
Fill Area (SF): 22	Fill Vol. (CY): 25
Seed Width (FT):	Seed Area (SY):

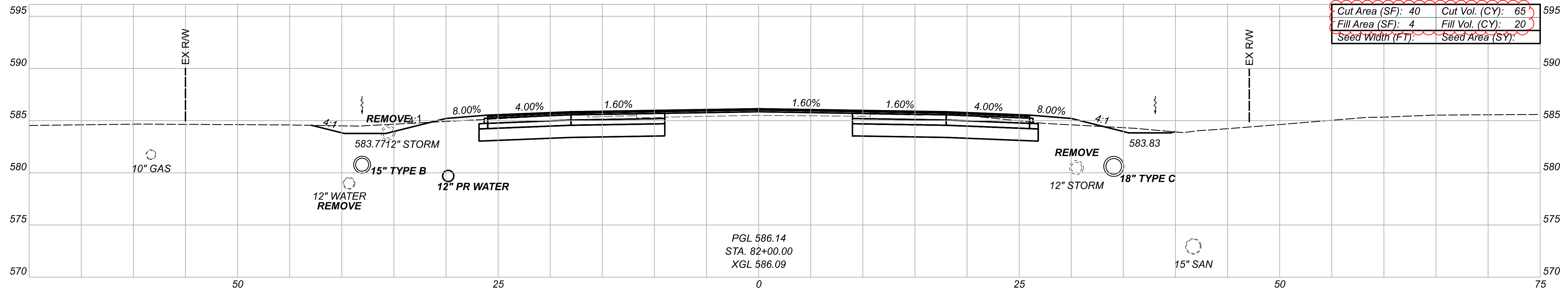
CROSS SECTIONS - SR 53
 STA. 79+50 TO STA. 80+50

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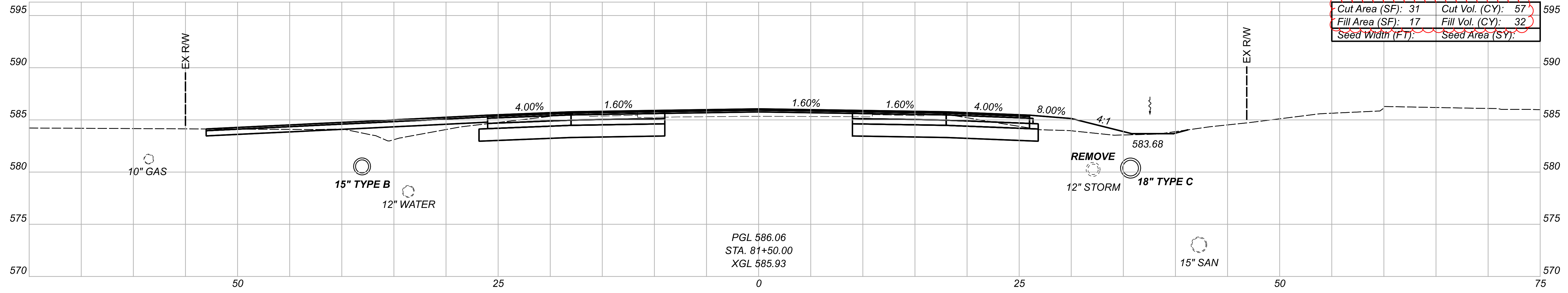
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 110859

Sheet Totals			110859
Seeding	Cut	Fill	SHEET TOTAL
.	234	88	P.116 290



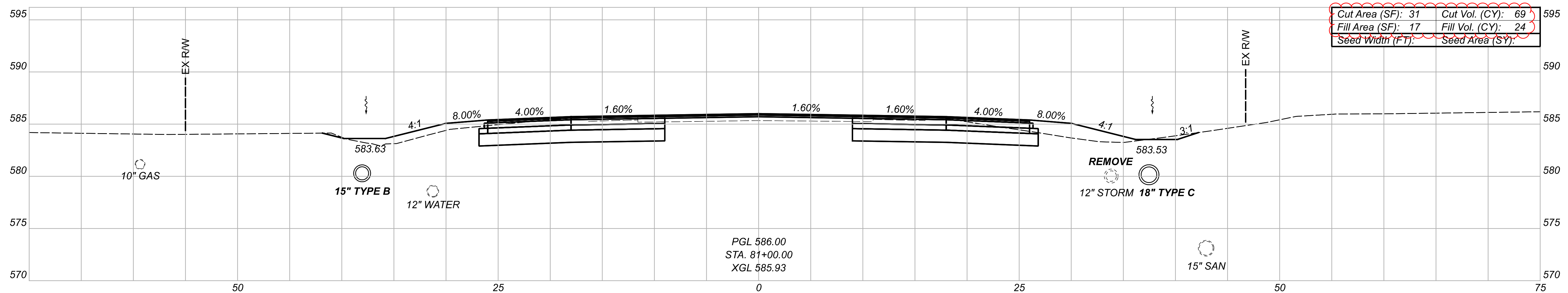
Cut Area (SF): 40	Cut Vol. (CY): 65
Fill Area (SF): 4	Fill Vol. (CY): 20
Seed Width (FT):	Seed Area (SY):

PGL 586.14
 STA. 82+00.00
 XGL 586.09



Cut Area (SF): 31	Cut Vol. (CY): 57
Fill Area (SF): 17	Fill Vol. (CY): 32
Seed Width (FT):	Seed Area (SY):

PGL 586.06
 STA. 81+50.00
 XGL 585.93

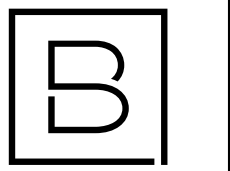


Cut Area (SF): 31	Cut Vol. (CY): 69
Fill Area (SF): 17	Fill Vol. (CY): 24
Seed Width (FT):	Seed Area (SY):

PGL 586.00
 STA. 81+00.00
 XGL 585.93

CROSS SECTIONS - SR 53
 STA. 81+00 TO STA. 82+00

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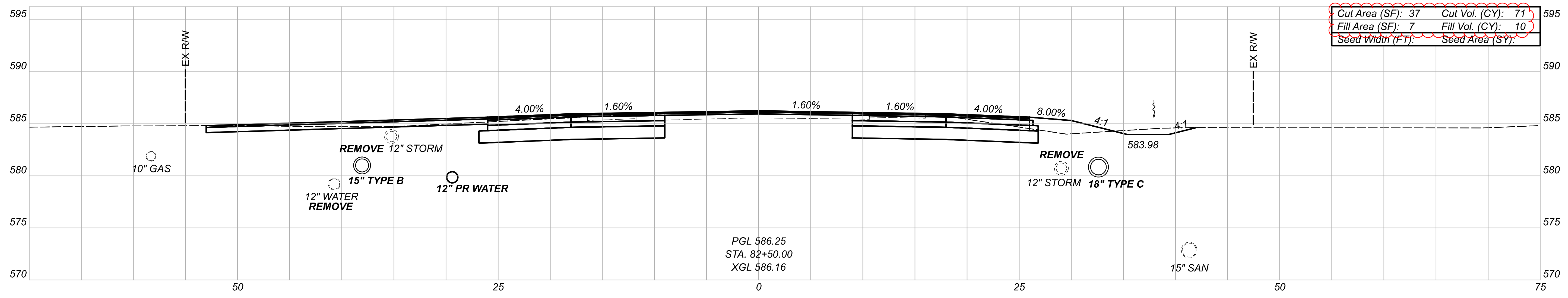
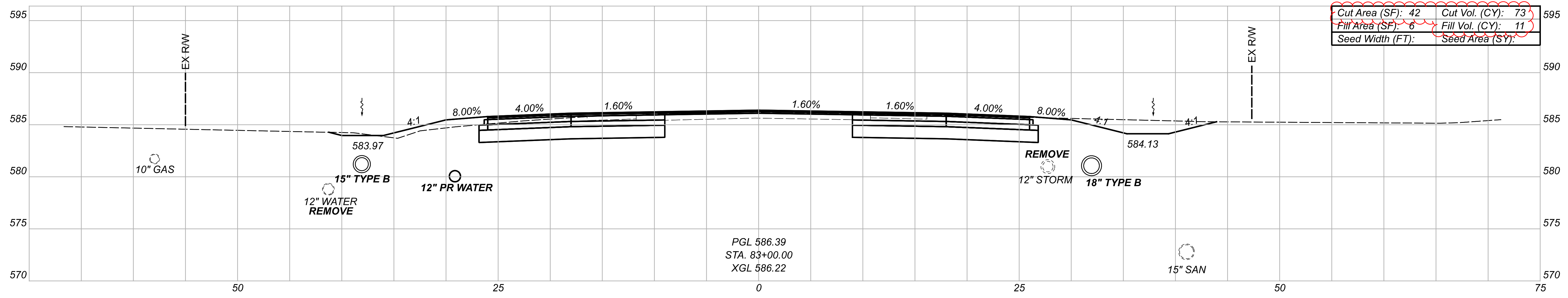
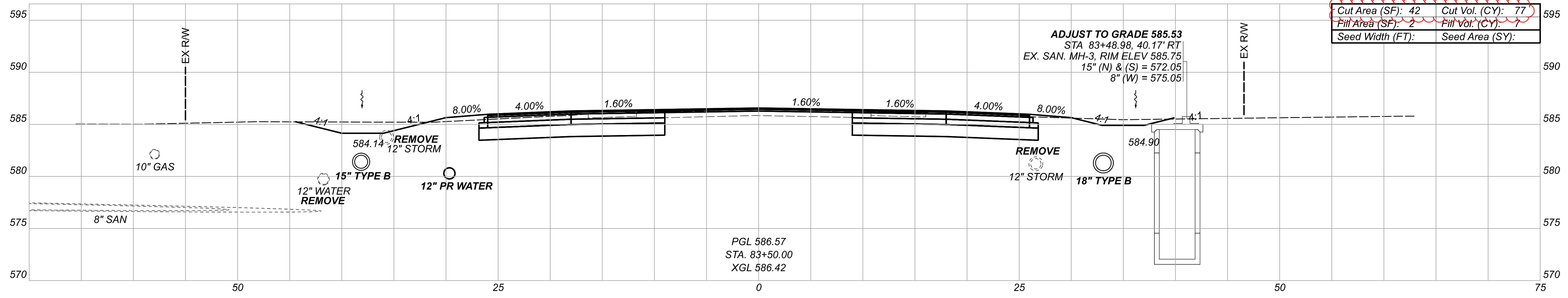
REVIEWER

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PROJECT ID

110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.117	290
.	191	76		



CROSS SECTIONS - SR 53
 STA. 82+50 TO STA. 83+50



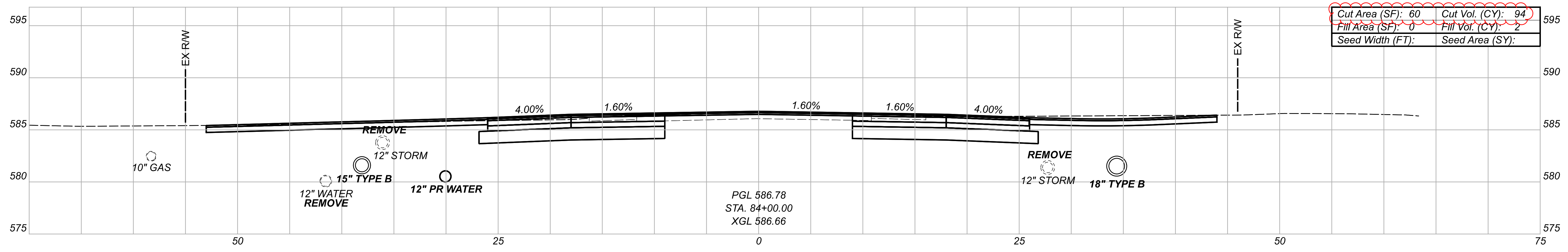
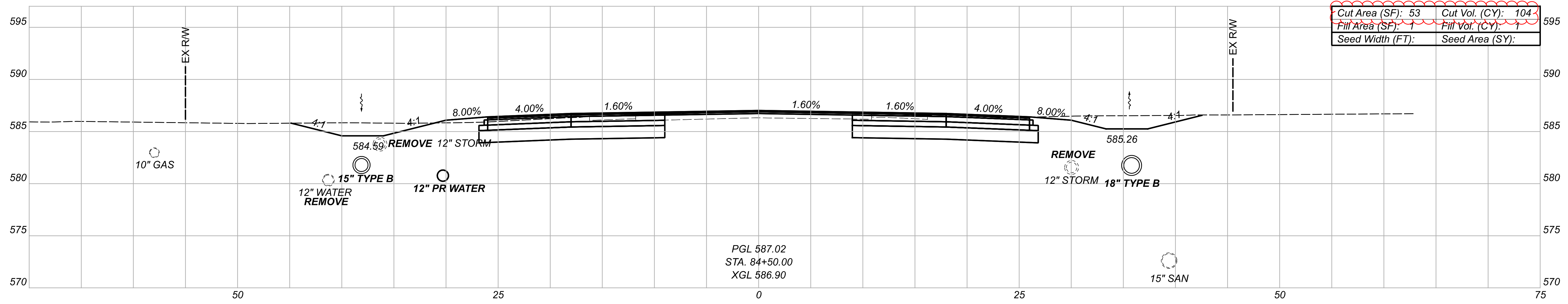
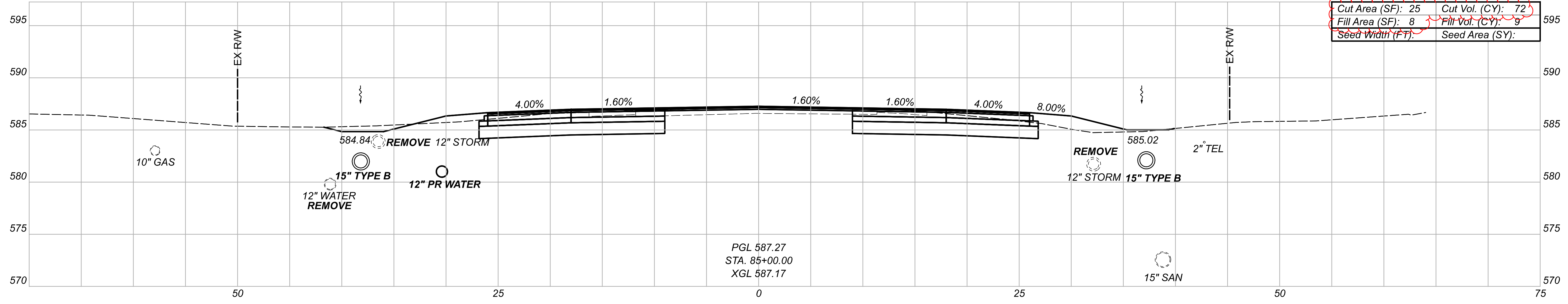
DESIGN AGENCY
BERGMANN
 ARCHITECTS ENGINEERS PLANNERS
 3400 Briarfield Blvd, Ste. C,
 Warsaw, OH 43087

DESIGNER
MAS

REVIEWER
 XF 02/08/23

PROJECT ID
 110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.118	290
.	227	28		

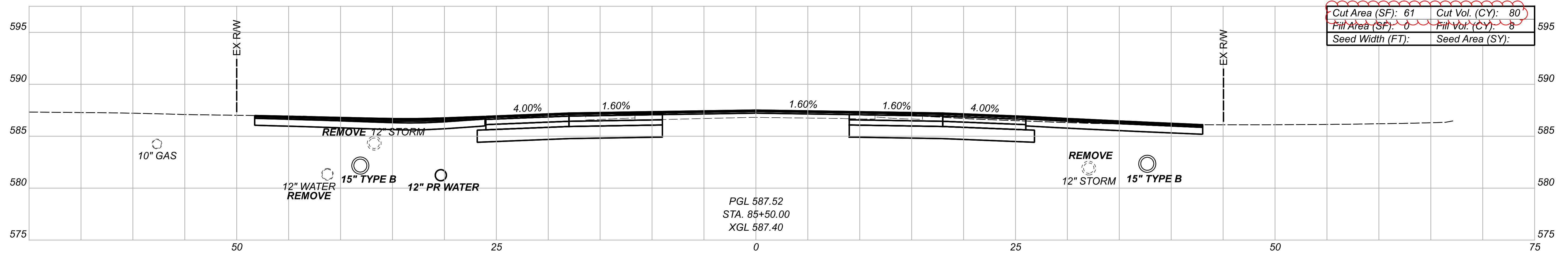
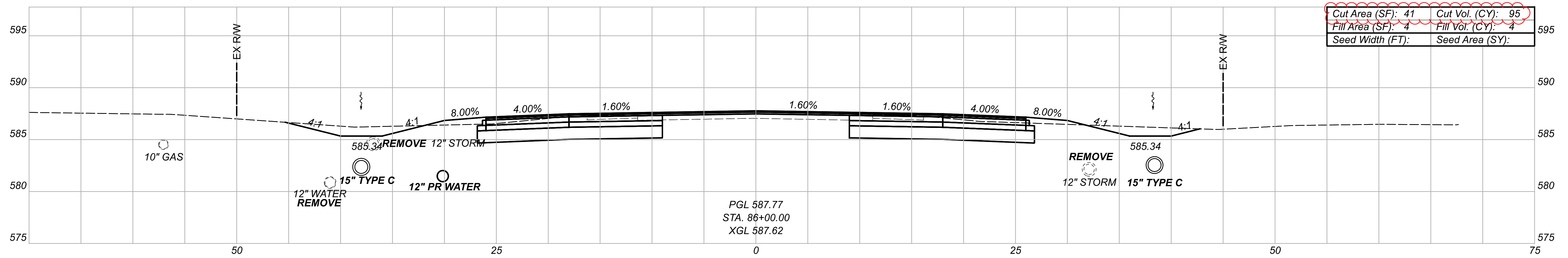
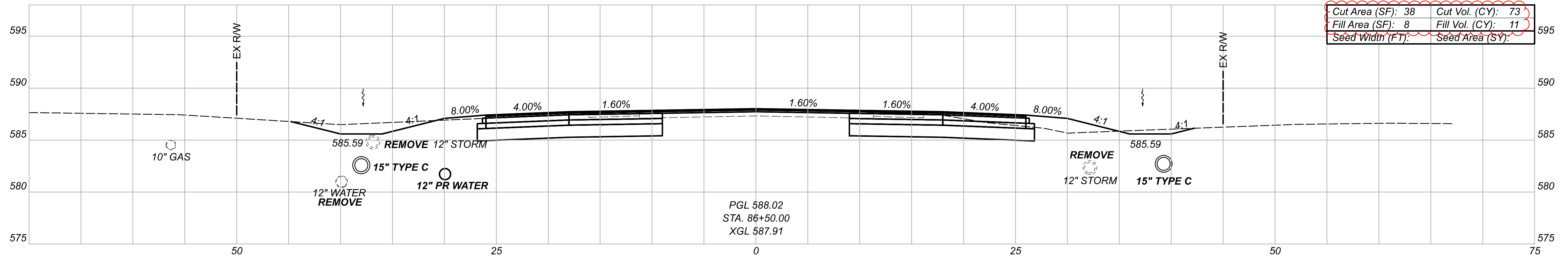


CROSS SECTIONS - SR 53
 STA. 84+50 TO STA. 85+00



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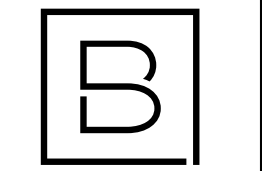
Sheet Totals		
Seeding	Cut	Fill
·	270	12



Sheet Totals		
Seeding	Cut	Fill
·	248	23

CROSS SECTIONS - SR 53
 STA. 85+50 TO STA. 86+50

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 Marietta, OH 45757

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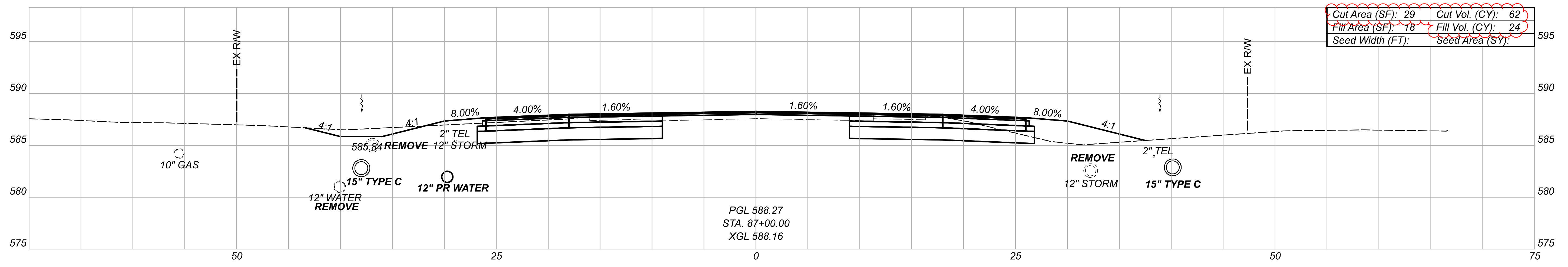
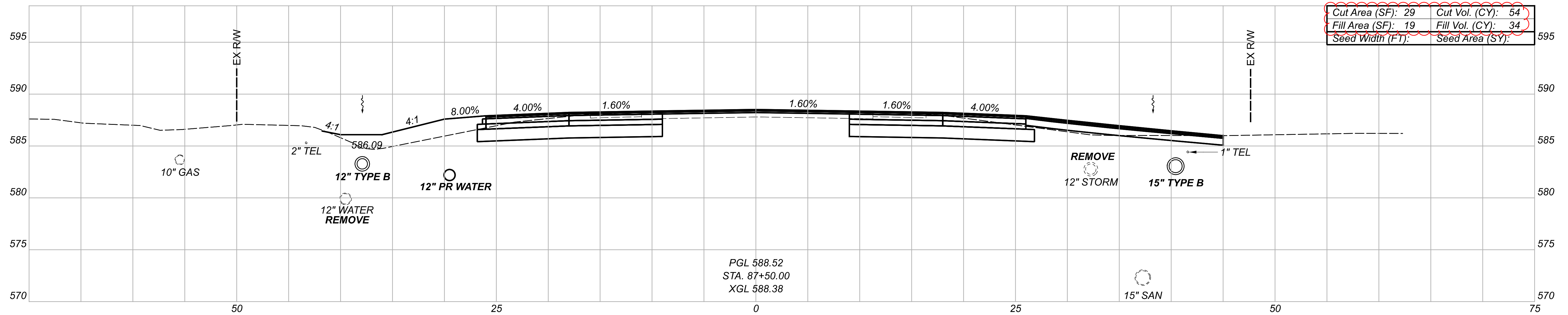
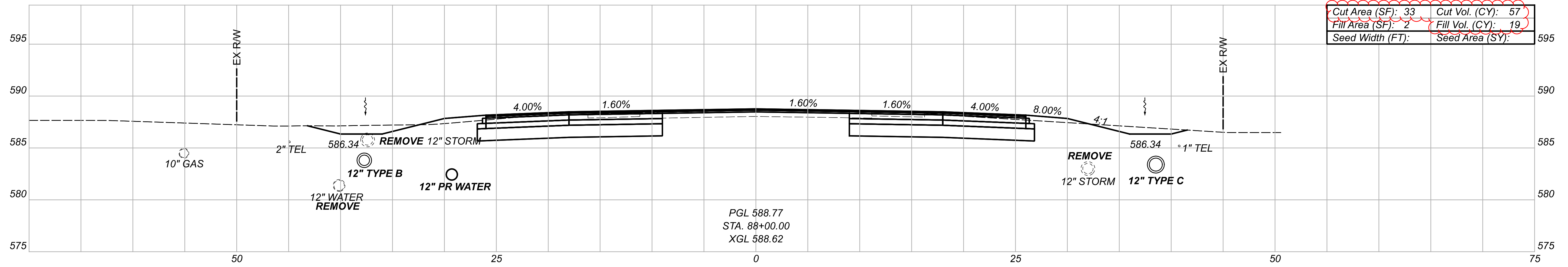
XF 02/08/23

PROJECT ID

110859

SHEET TOTAL

P.120 290



Sheet Totals			110859	
Seeding	Cut	Fill	SHEET	TOTAL
	173	77	P.121	290

CROSS SECTIONS - SR 53
 STA. 87+00 TO STA. 88+00

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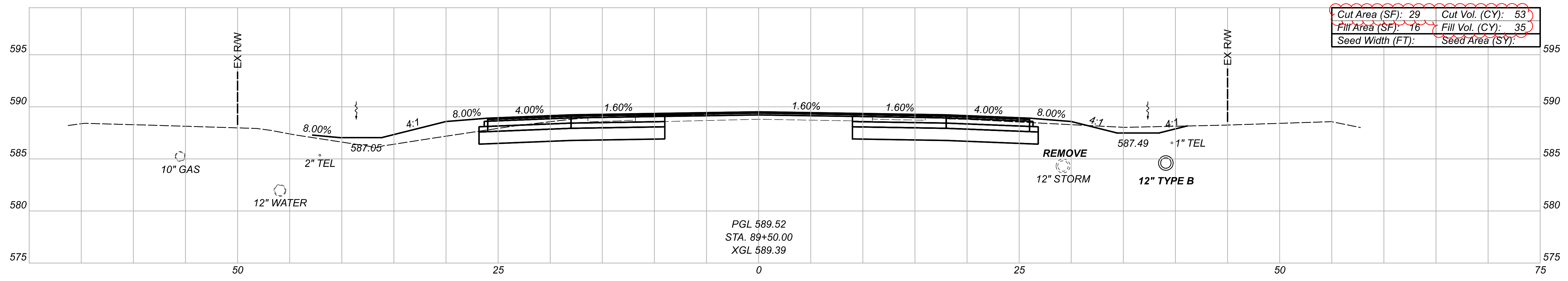
DESIGNER
MAS

REVIEWER
 XF 02/08/23

PROJECT ID
 110859

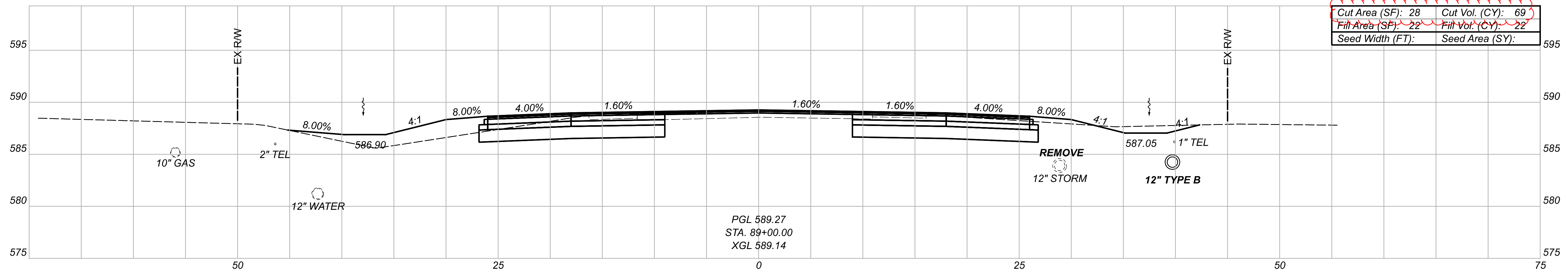
OTT-53-11.67

MODEL: CLP_SR57 - 88+50.00 [Sheet] PAPER SIZE: 34x22 (in.) DATE: 5/19/2023 TIME: 6:03:33 PM USER: GARRETT.BRENKE
 P:\ETS5000P\WINT11-US-Infrastructure\Documents\OhioDOT\200-12914-20001\0859\Roadway\Sheets\0859_XS101.dgn



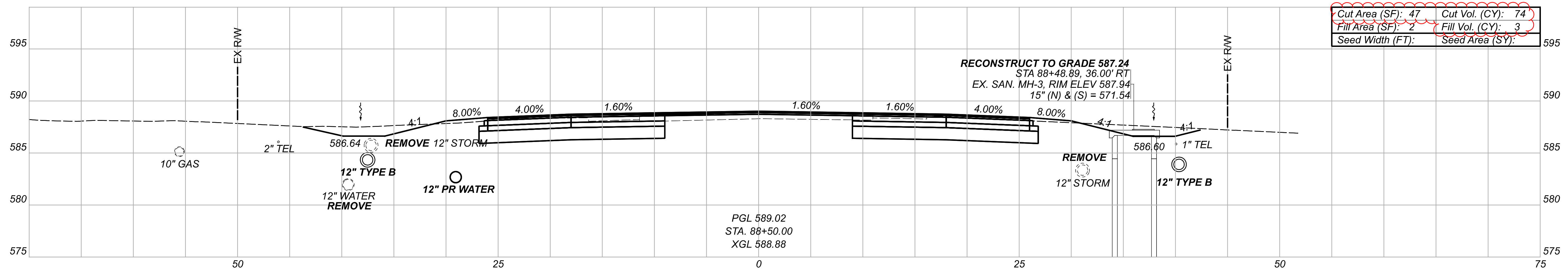
Cut Area (SF): 29	Cut Vol. (CY): 53
Fill Area (SF): 16	Fill Vol. (CY): 35
Seed Width (FT):	Seed Area (SY):

PGL 589.52
 STA. 89+50.00
 XGL 589.39



Cut Area (SF): 28	Cut Vol. (CY): 69
Fill Area (SF): 22	Fill Vol. (CY): 22
Seed Width (FT):	Seed Area (SY):

PGL 589.27
 STA. 89+00.00
 XGL 589.14



Cut Area (SF): 47	Cut Vol. (CY): 74
Fill Area (SF): 2	Fill Vol. (CY): 3
Seed Width (FT):	Seed Area (SY):

PGL 589.02
 STA. 88+50.00
 XGL 588.88

RECONSTRUCT TO GRADE 587.24
 STA 88+48.89, 36.00' RT
 EX. SAN. MH-3, RIM ELEV 587.94
 15" (N) & (S) = 571.54

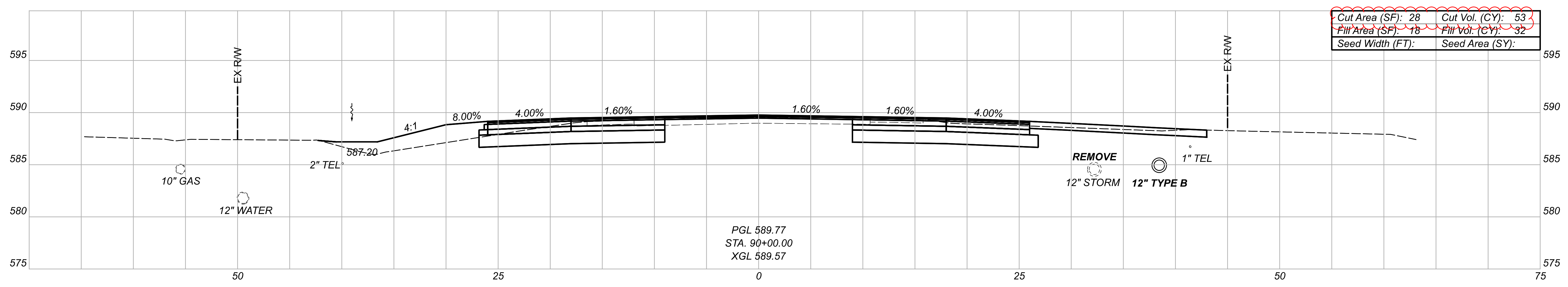
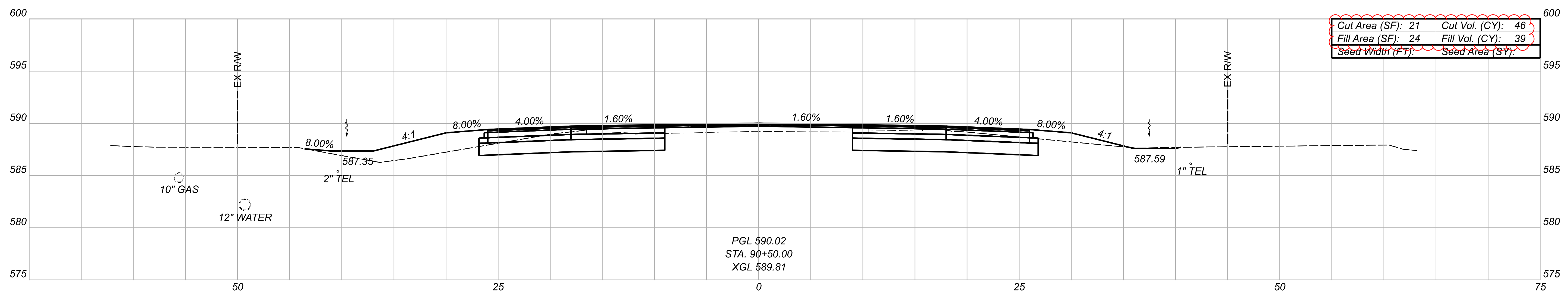
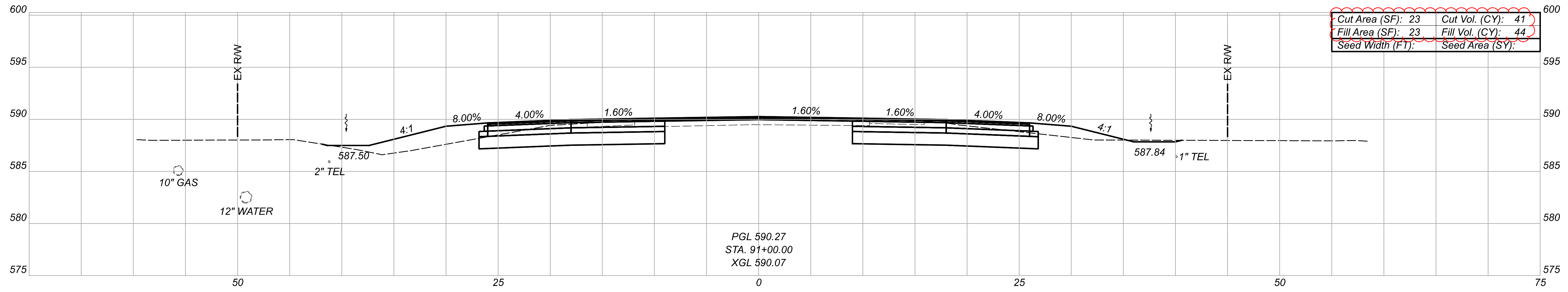
CROSS SECTIONS - SR 53
 STA. 88+50 TO STA. 89+50



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 110859

Sheet Totals		
Seeding	Cut	Fill
·	196	60

SHEET	TOTAL
P.122	290



CROSS SECTIONS - SR 53
 STA. 90+00 TO STA. 91+00



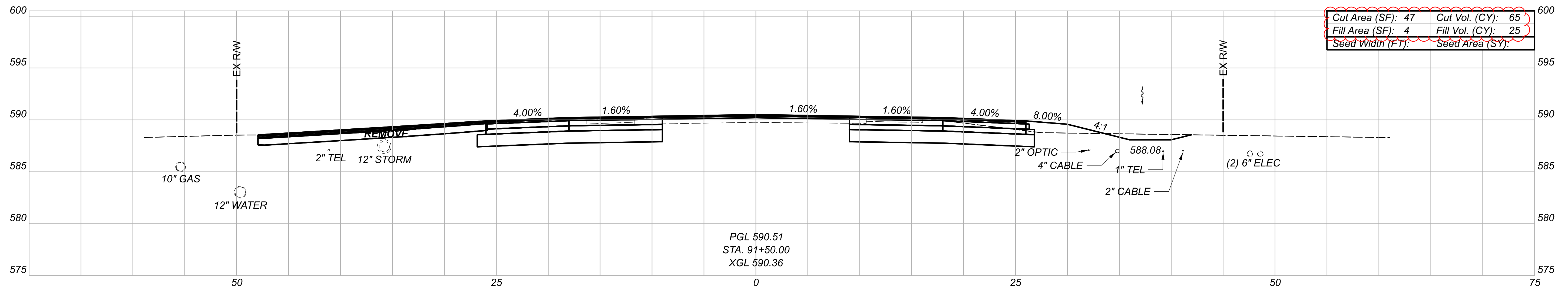
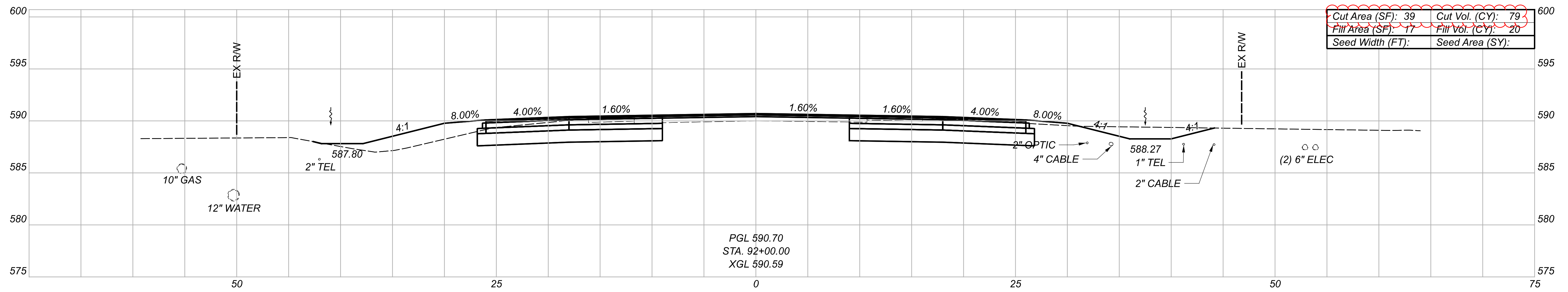
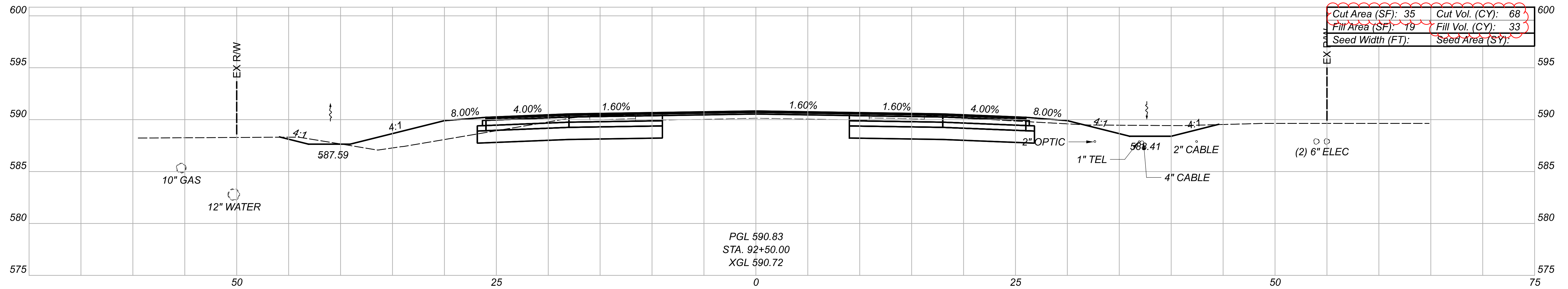
DESIGN AGENCY
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 3400 Bricefield Blvd, Ste. C,
 Wooster, OH 43087

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Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.123	290
	140	115		



CROSS SECTIONS - SR 53
 STA. 91+50 TO STA. 92+50

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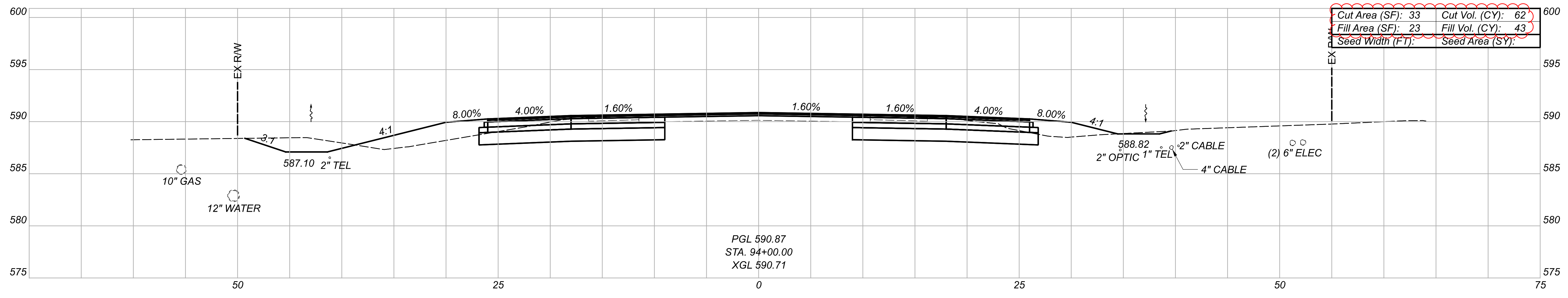
REVIEWER

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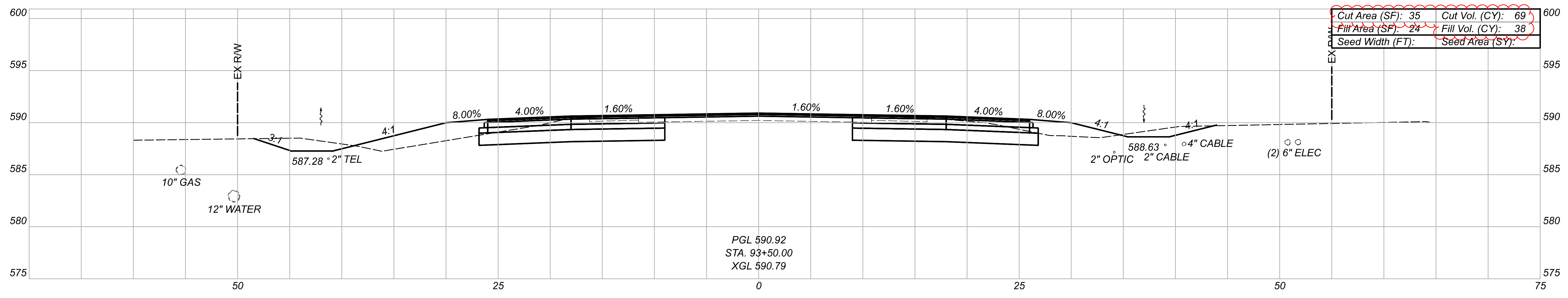
110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.124	290
	212	78		



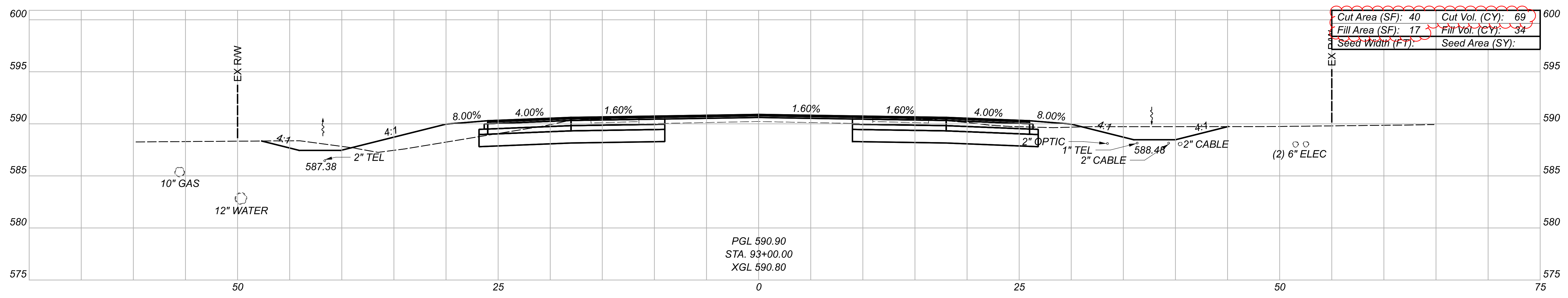
Cut Area (SF): 33	Cut Vol. (CY): 62
Fill Area (SF): 23	Fill Vol. (CY): 43
Seed Width (FT):	Seed Area (SY):

PGL 590.87
 STA. 94+00.00
 XGL 590.71



Cut Area (SF): 35	Cut Vol. (CY): 69
Fill Area (SF): 24	Fill Vol. (CY): 38
Seed Width (FT):	Seed Area (SY):

PGL 590.92
 STA. 93+50.00
 XGL 590.79



Cut Area (SF): 40	Cut Vol. (CY): 69
Fill Area (SF): 17	Fill Vol. (CY): 34
Seed Width (FT):	Seed Area (SY):

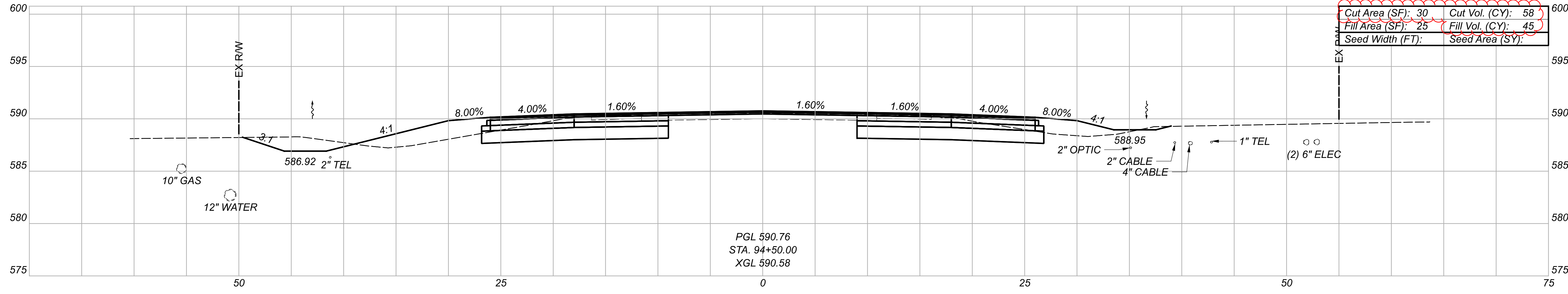
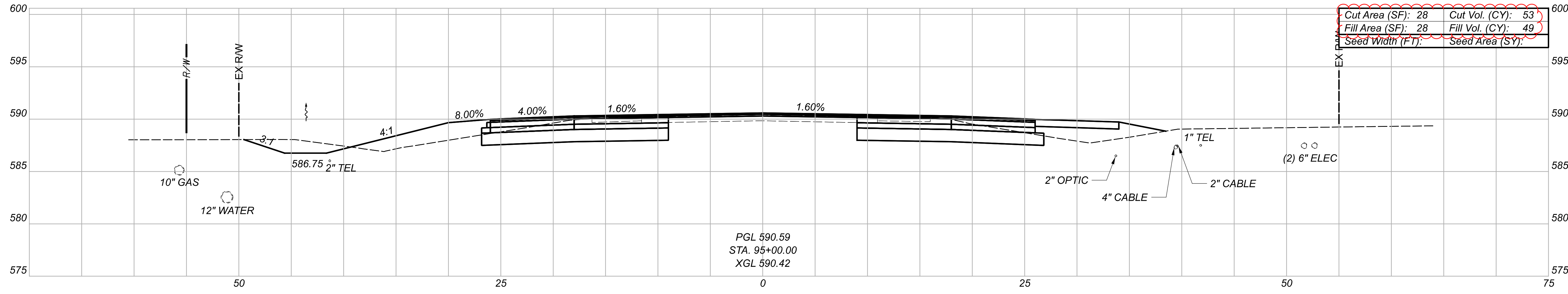
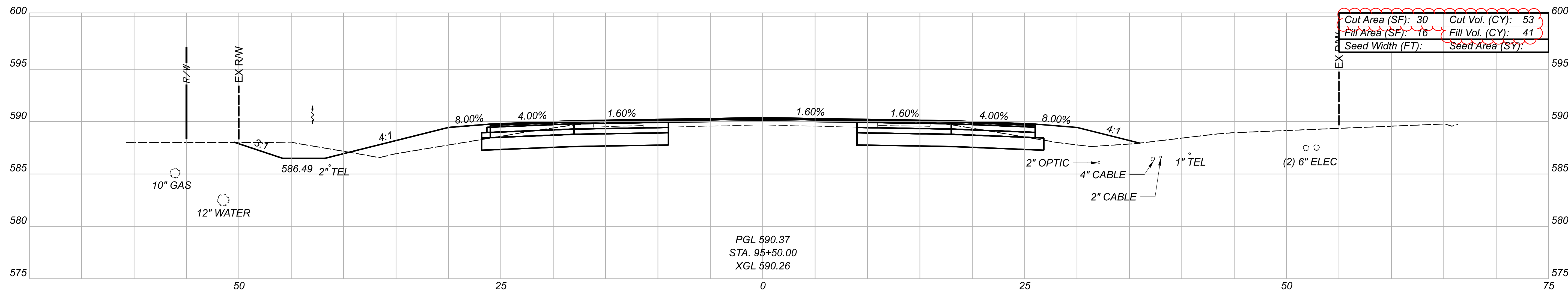
PGL 590.90
 STA. 93+00.00
 XGL 590.80

CROSS SECTIONS - SR 53
 STA. 93+00 TO STA. 94+00



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Sheet Totals			110859
Seeding	Cut	Fill	SHEET TOTAL
.	200	115	P.125 290

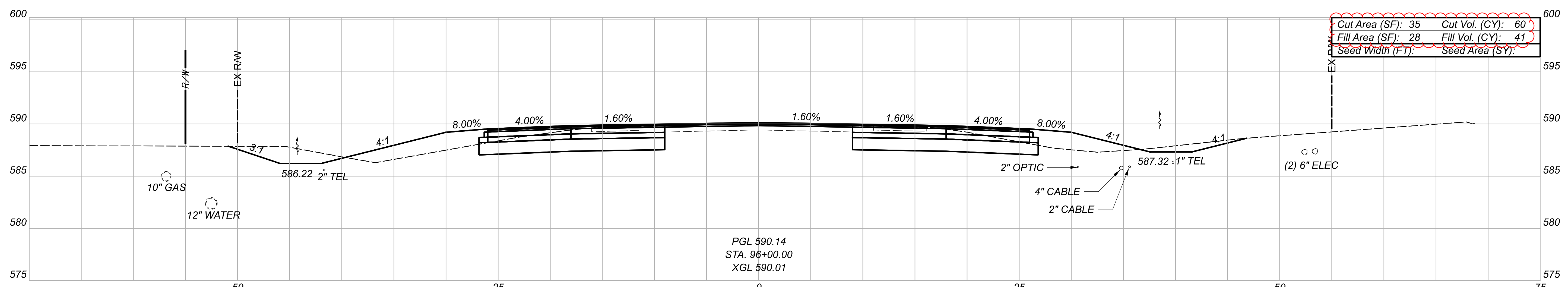
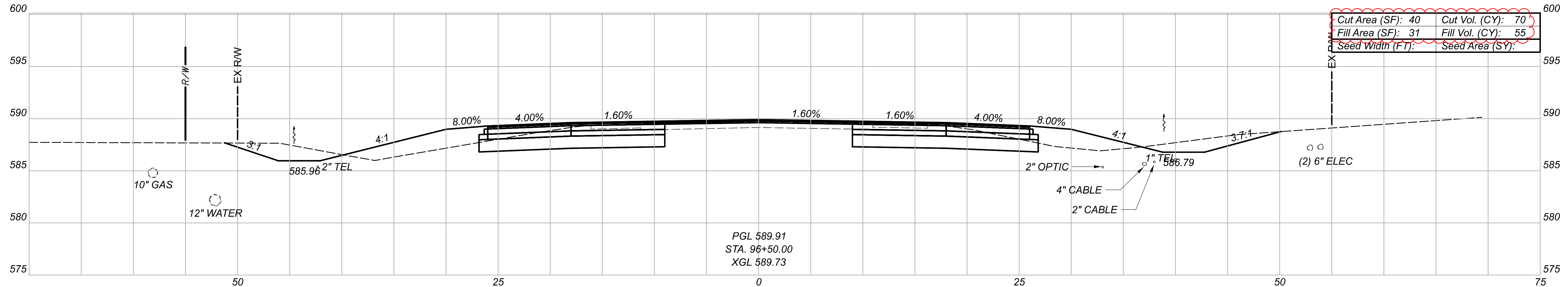
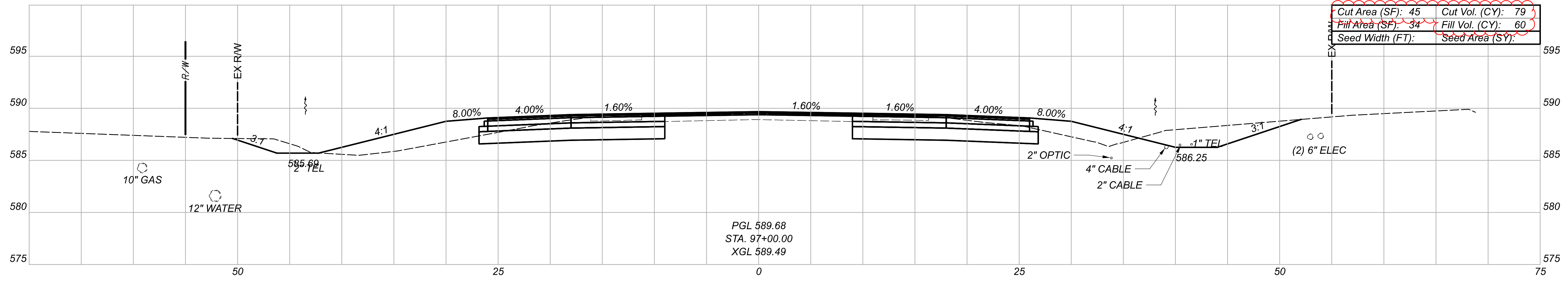


CROSS SECTIONS - SR 53
 STA. 94+50 TO STA. 95+50



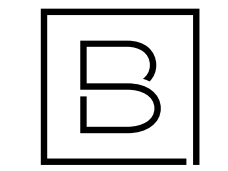
DESIGNER: MAS
 REVIEWER: XF 02/08/23
 PROJECT ID: 110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.126	290
.	164	135		



CROSS SECTIONS - SR 53
 STA. 96+00 TO STA. 97+00

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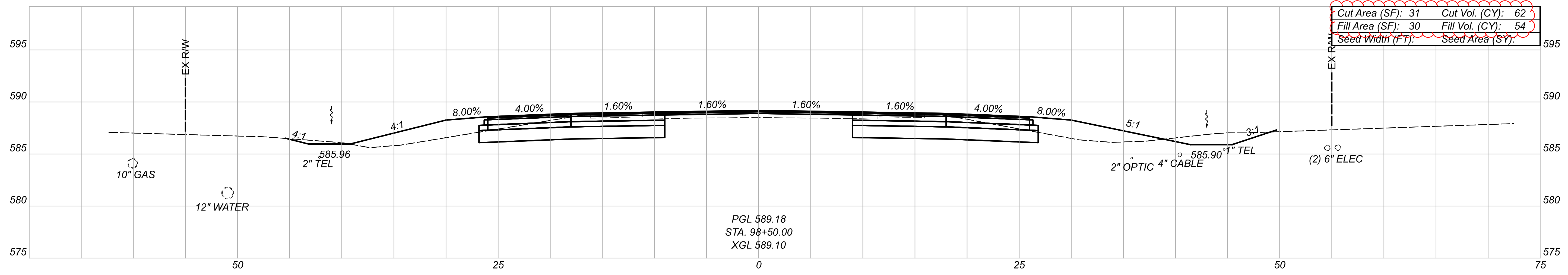
REVIEWER

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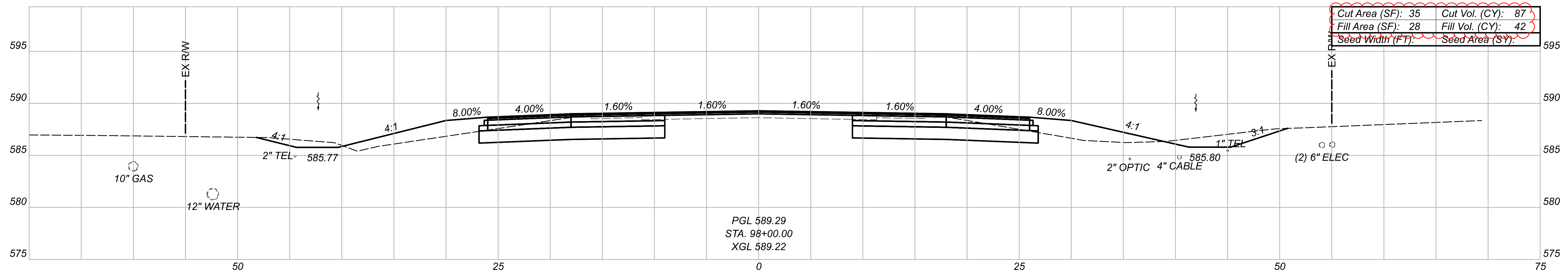
110859

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
	209	156	P.127	290



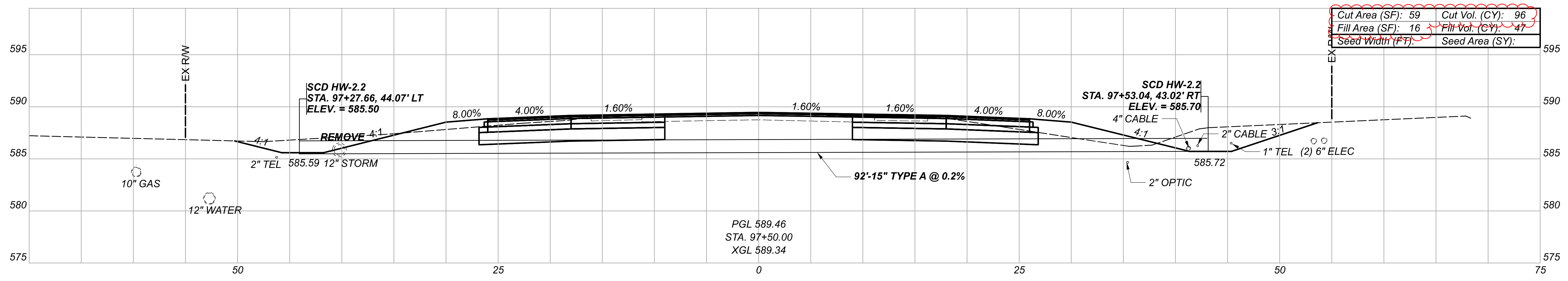
Cut Area (SF): 31	Cut Vol. (CY): 62
Fill Area (SF): 30	Fill Vol. (CY): 54
Seed Width (FT):	Seed Area (SY):

PGL 589.18
 STA. 98+50.00
 XGL 589.10



Cut Area (SF): 35	Cut Vol. (CY): 87
Fill Area (SF): 28	Fill Vol. (CY): 42
Seed Width (FT):	Seed Area (SY):

PGL 589.29
 STA. 98+00.00
 XGL 589.22



Cut Area (SF): 59	Cut Vol. (CY): 96
Fill Area (SF): 16	Fill Vol. (CY): 47
Seed Width (FT):	Seed Area (SY):

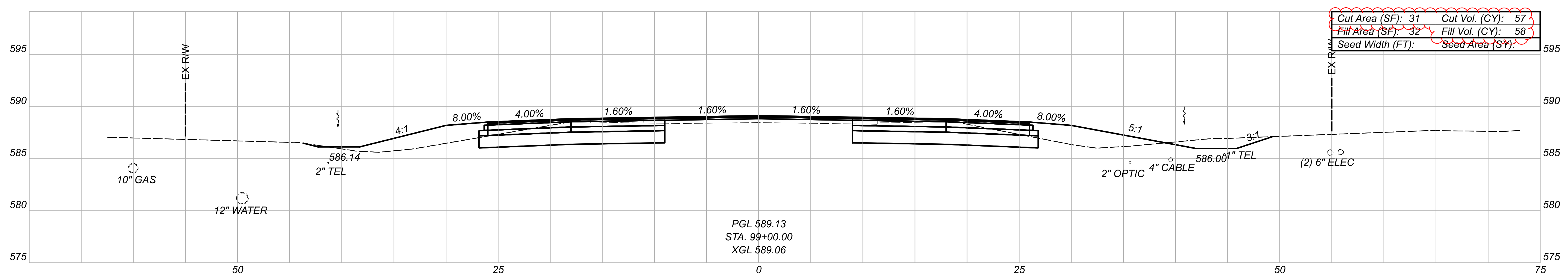
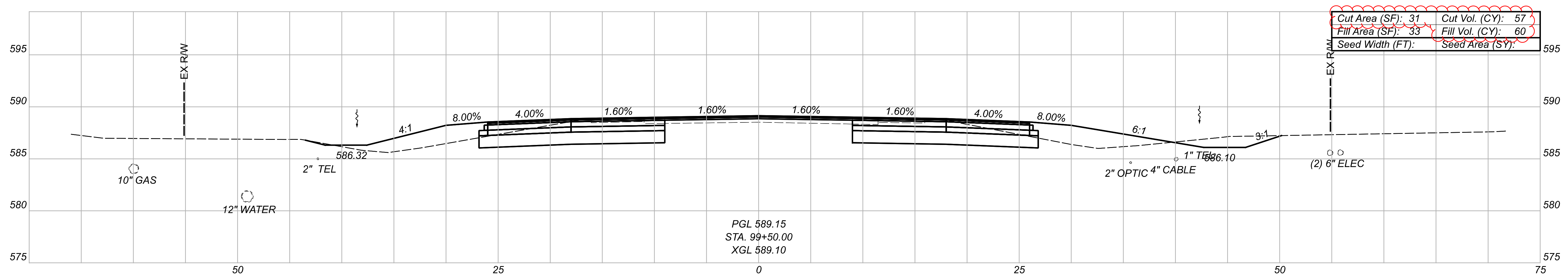
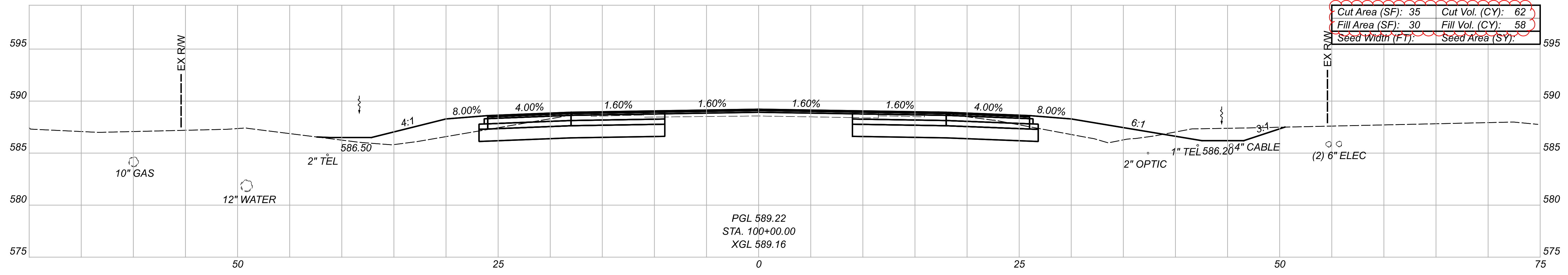
PGL 589.46
 STA. 97+50.00
 XGL 589.34

CROSS SECTIONS - SR 53
 STA. 97+50 TO STA. 98+50



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Sheet Totals			110859
Seeding	Cut	Fill	TOTAL
	245	143	P.128 290



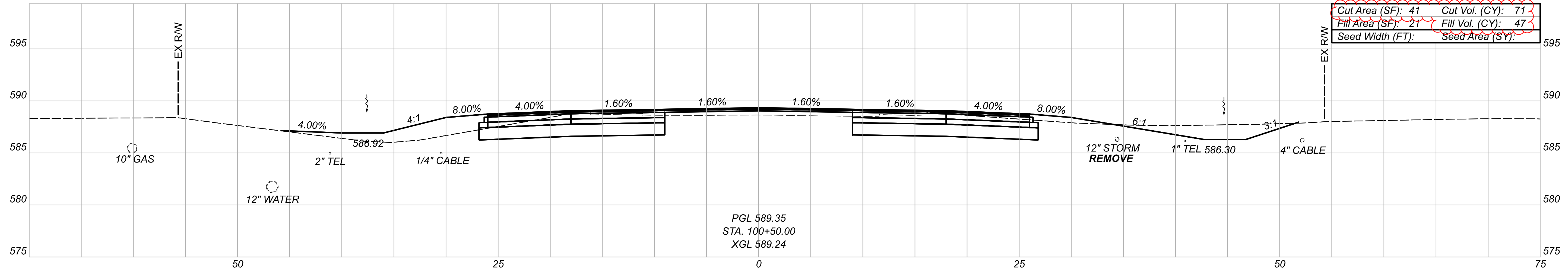
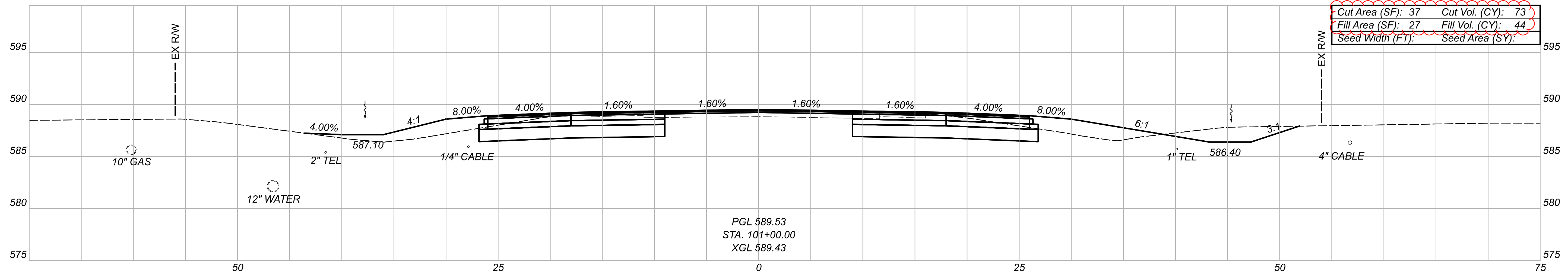
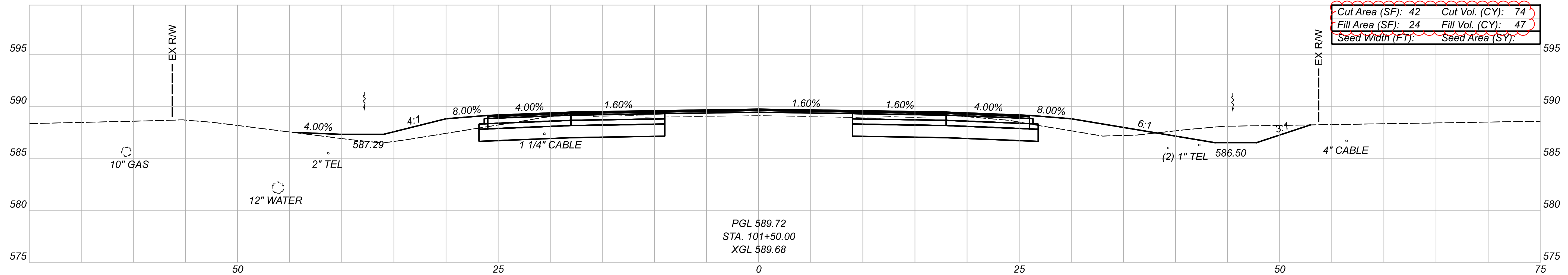
Sheet Totals			110859	
Seeding	Cut	Fill	SHEET	TOTAL
	176	176	P.129	290

CROSS SECTIONS - SR 53
 STA. 99+00 TO STA. 100+00

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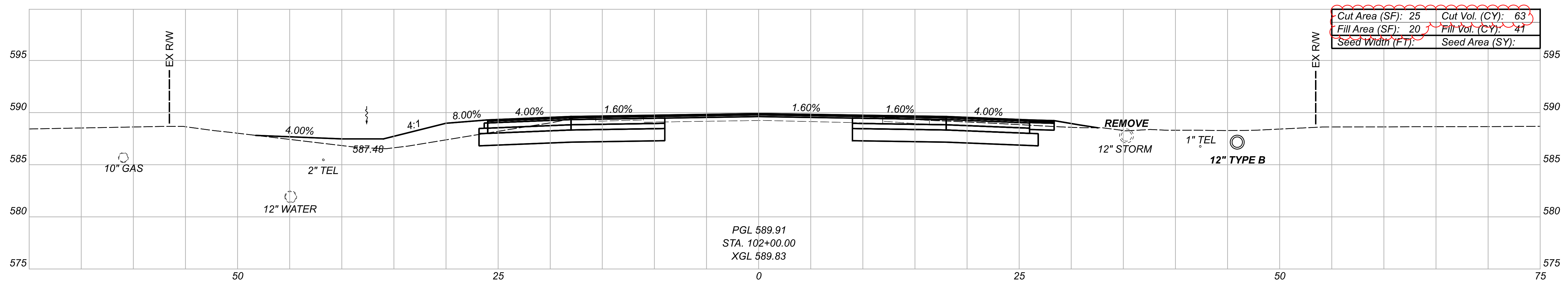
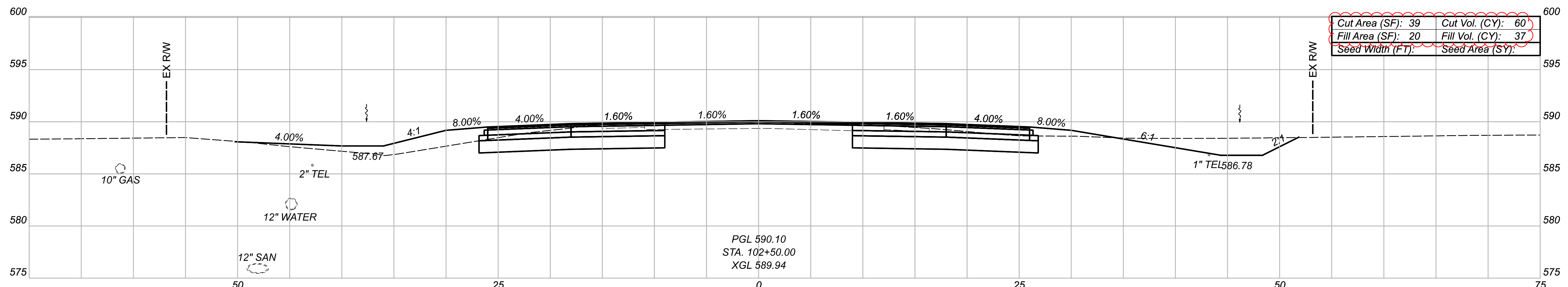
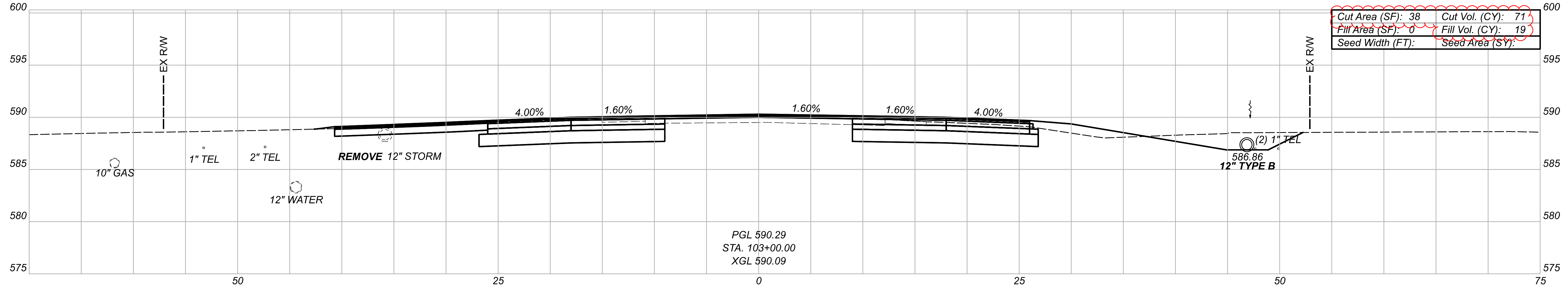


CROSS SECTIONS - SR 53
 STA. 100+50 TO STA. 101+50



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Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.130	290
	218	138		

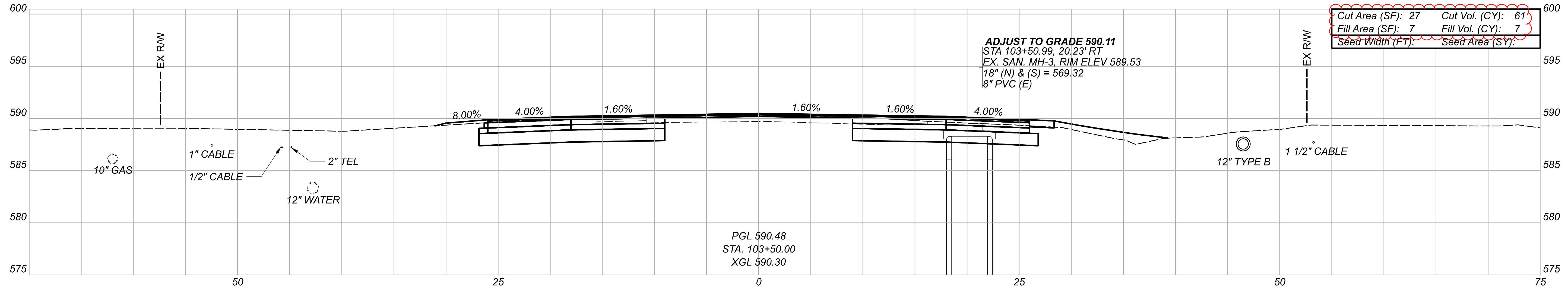
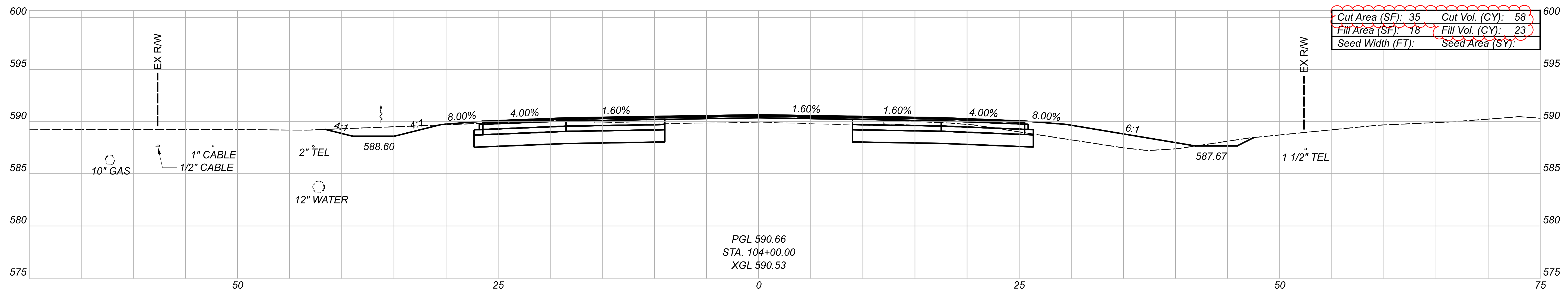
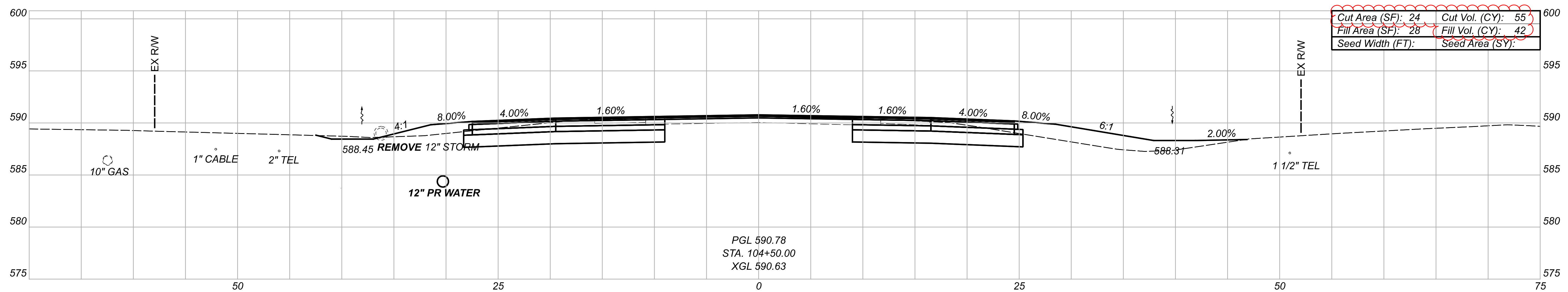


CROSS SECTIONS - SR 53
 STA. 102+00 TO STA. 103+00



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 PROJECT ID: 110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.131	290
	194	97		



CROSS SECTIONS - SR 53
 STA. 103+50 TO STA. 104+50



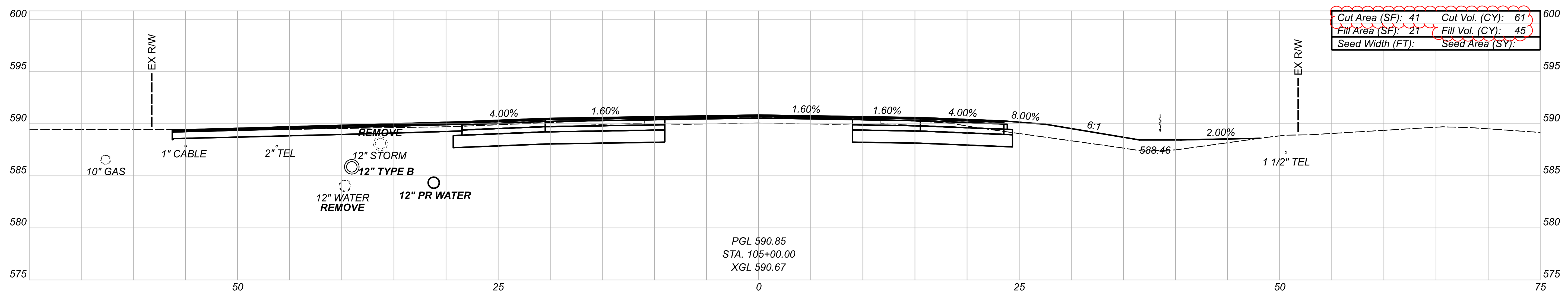
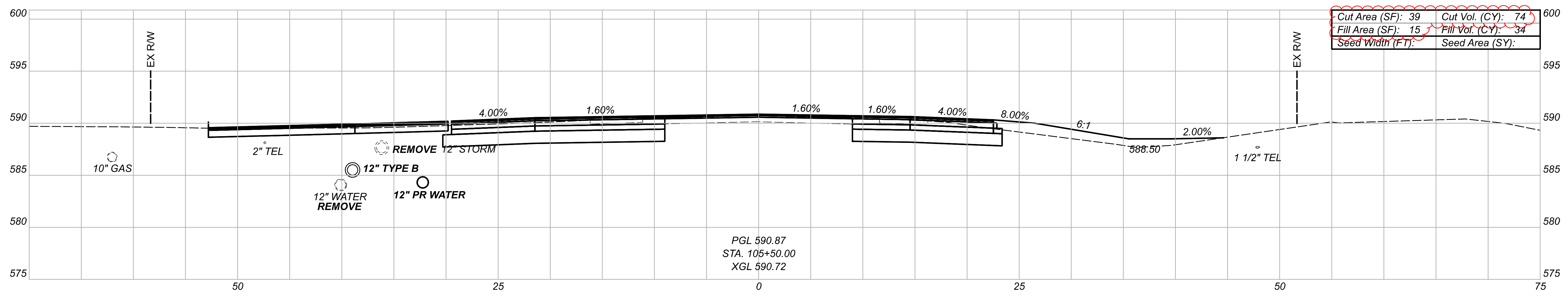
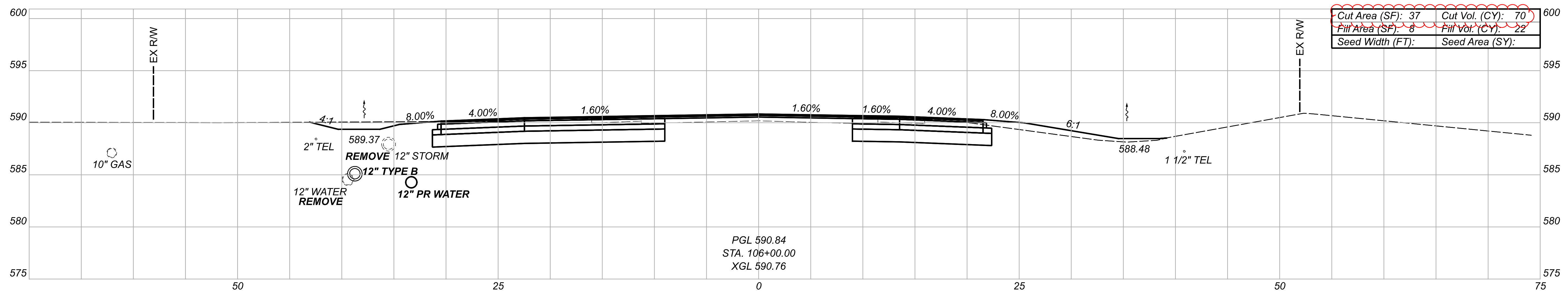
DESIGN AGENCY
BERGMANN
 ARCHITECTS ENGINEERS PLANNERS
 3400 Briarfield Blvd, Ste. C,
 Waukegan, OH 43387

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Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.132	290
	174	72		



CROSS SECTIONS - SR 53
 STA. 105+00 TO STA. 106+00

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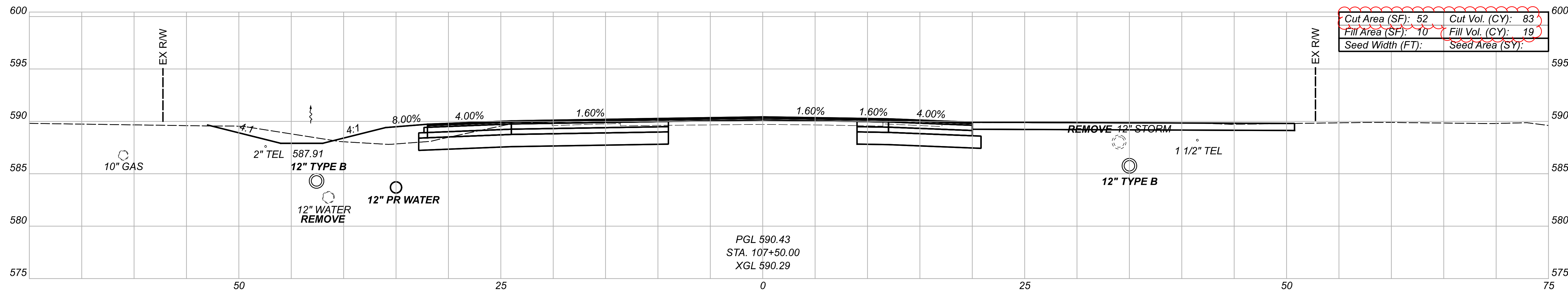
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 ARCHITECTS ENGINEERS PLANNERS
 3400 Briarfield Blvd, Ste. C,
 Warsaw, OH 43087

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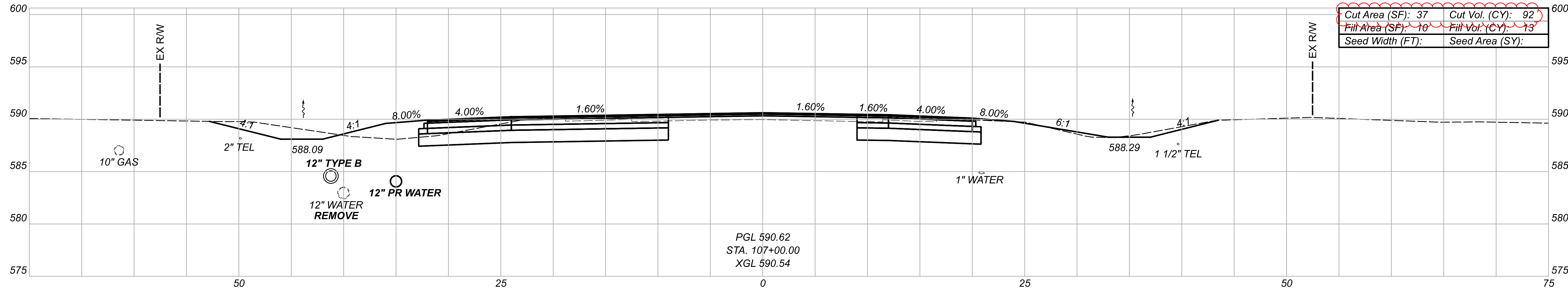
PROJECT ID
 110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.133	290
	205	101		



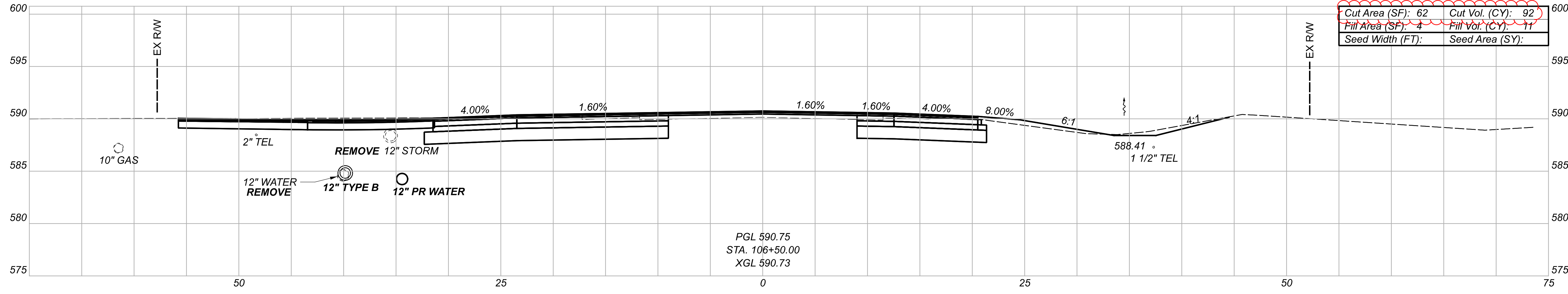
Cut Area (SF): 52	Cut Vol. (CY): 83
Fill Area (SF): 10	Fill Vol. (CY): 19
Seed Width (FT):	Seed Area (SY):

PGL 590.43
 STA. 107+50.00
 XGL 590.29



Cut Area (SF): 37	Cut Vol. (CY): 92
Fill Area (SF): 10	Fill Vol. (CY): 13
Seed Width (FT):	Seed Area (SY):

PGL 590.62
 STA. 107+00.00
 XGL 590.54



Cut Area (SF): 62	Cut Vol. (CY): 92
Fill Area (SF): 4	Fill Vol. (CY): 11
Seed Width (FT):	Seed Area (SY):

PGL 590.75
 STA. 106+50.00
 XGL 590.73

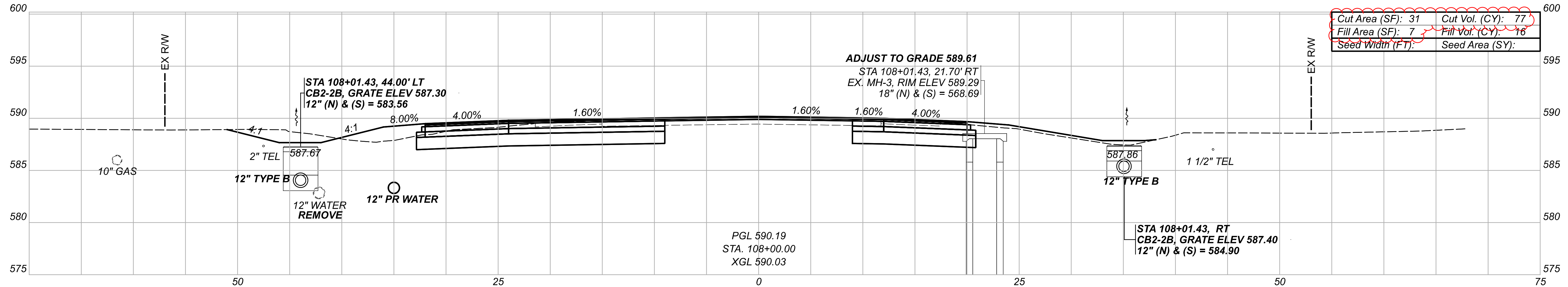
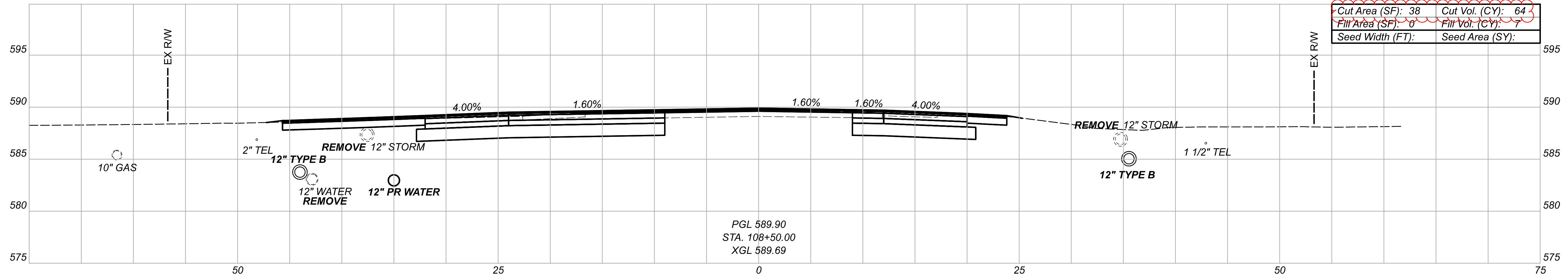
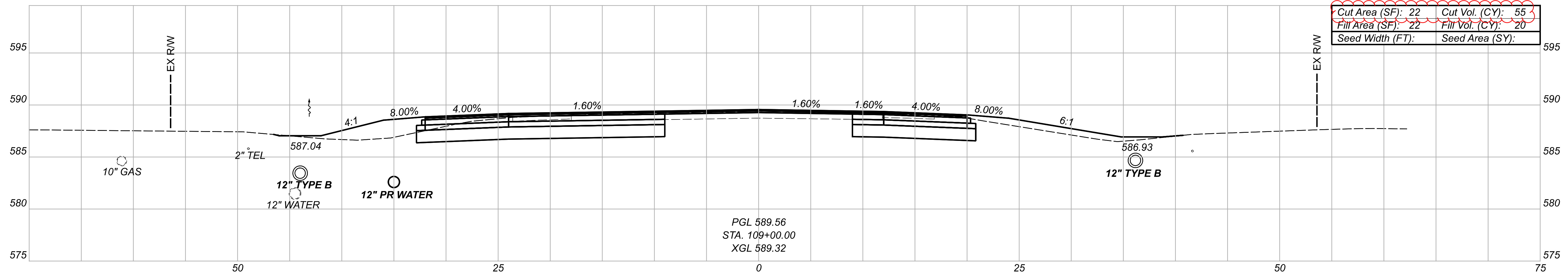
CROSS SECTIONS - SR 53
 STA. 106+50 TO STA. 107+50



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Sheet Totals		
Seeding	Cut	Fill
·	267	43

SHEET	TOTAL
P.134	290



CROSS SECTIONS - SR 53
 STA. 108+00 TO STA. 109+00

DESIGN AGENCY



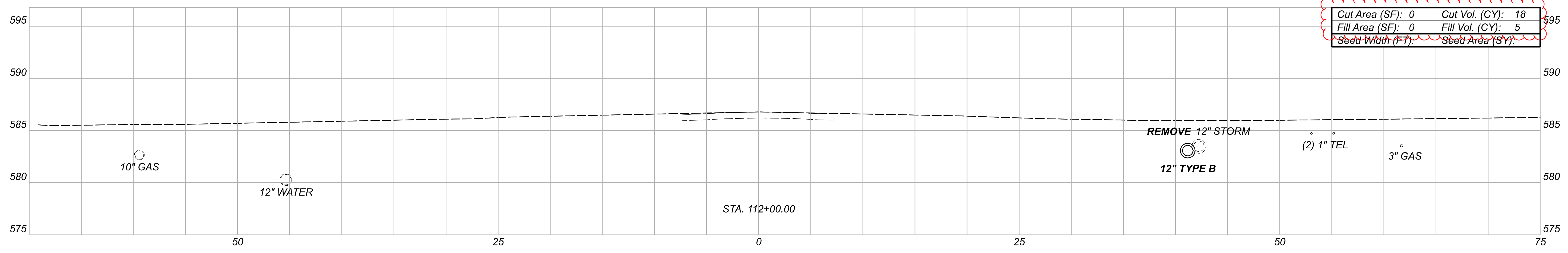
BERGMANN
 ARCHITECTS ENGINEERS PLANNERS
 3400 Bristol Field Blvd, Ste. C,
 Warsaw, OH 43087

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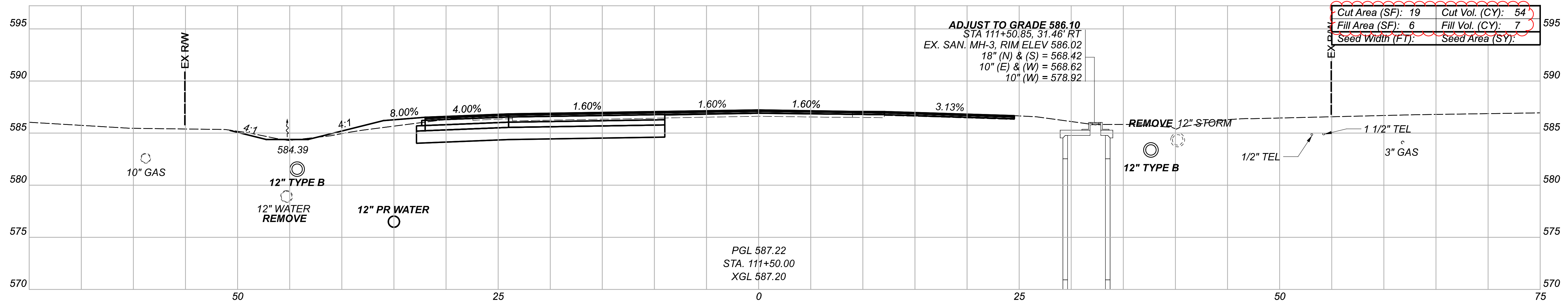
REVIEWER
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PROJECT ID
 110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.135	290
	196	43		

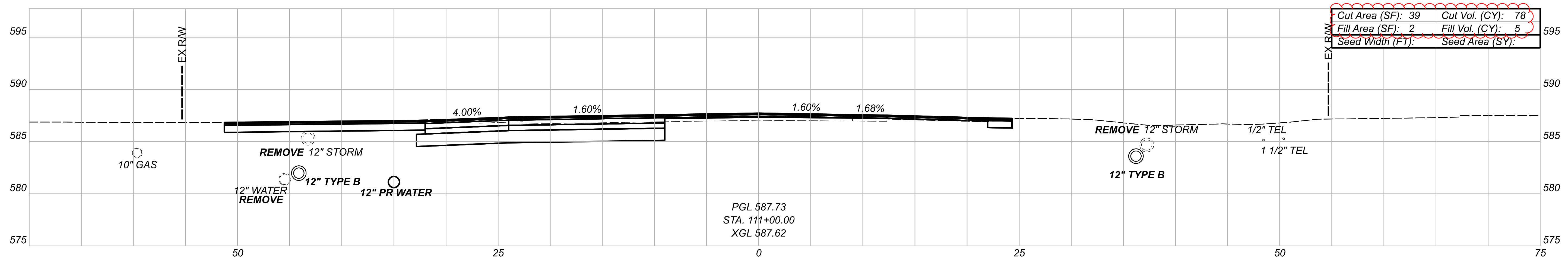


Cut Area (SF): 0	Cut Vol. (CY): 18
Fill Area (SF): 0	Fill Vol. (CY): 5
Seed Width (FT):	Seed Area (SY):



ADJUST TO GRADE 586.10
 STA 111+50.85, 31.46' RT
 EX. SAN. MH-3, RIM ELEV 586.02
 18" (N) & (S) = 568.42
 10" (E) & (W) = 568.62
 10" (W) = 578.92

Cut Area (SF): 19	Cut Vol. (CY): 54
Fill Area (SF): 6	Fill Vol. (CY): 7
Seed Width (FT):	Seed Area (SY):



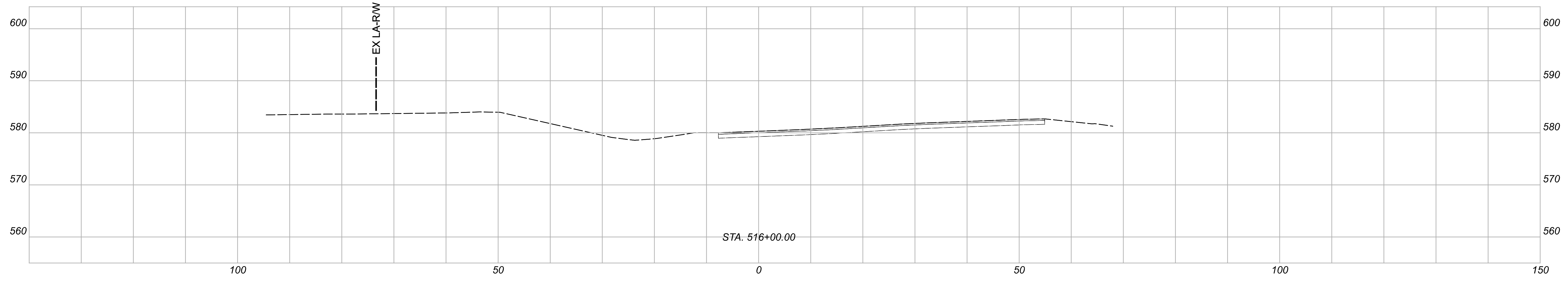
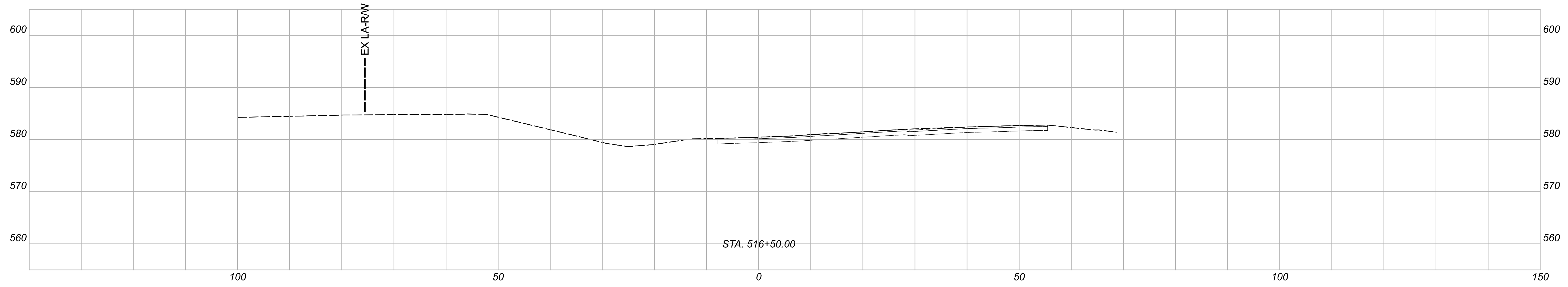
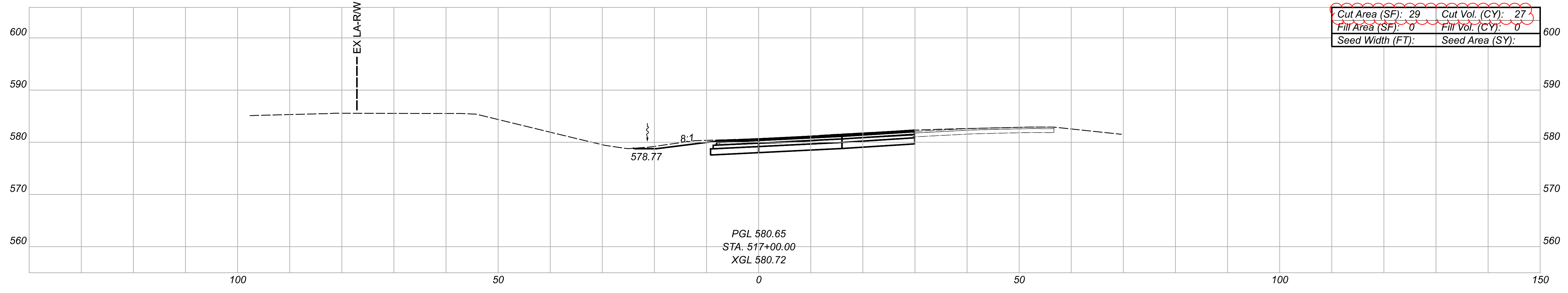
Cut Area (SF): 39	Cut Vol. (CY): 78
Fill Area (SF): 2	Fill Vol. (CY): 5
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - SR 53
 STA. 111+00 TO STA. 112+00



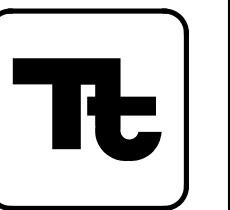
DESIGNER: MAS
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 PROJECT ID: 110859

Sheet Totals		
Seeding	Cut	Fill
150	17	



CROSS SECTIONS - RAMP C
STA. 515+00 TO STA. 517+00

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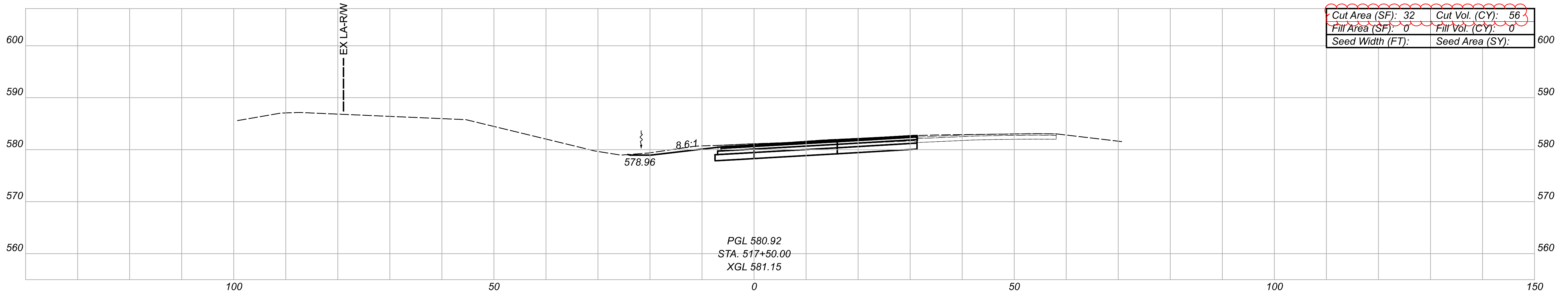
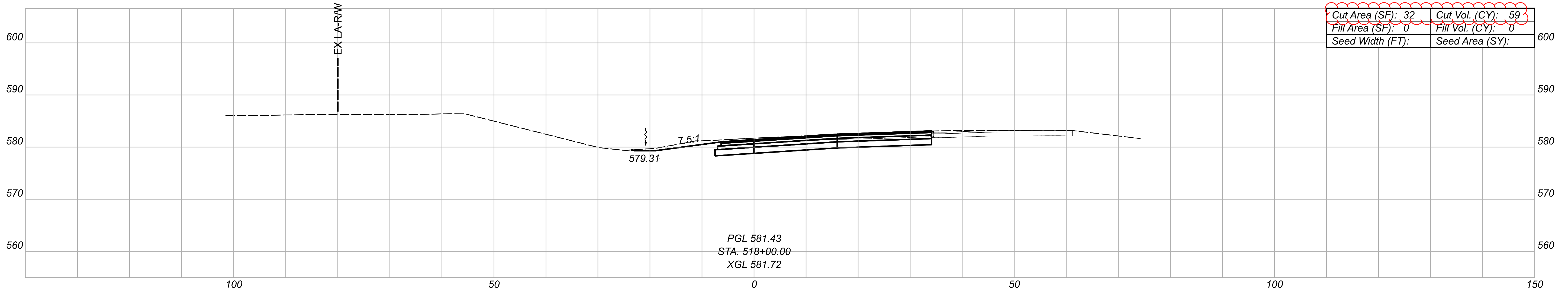
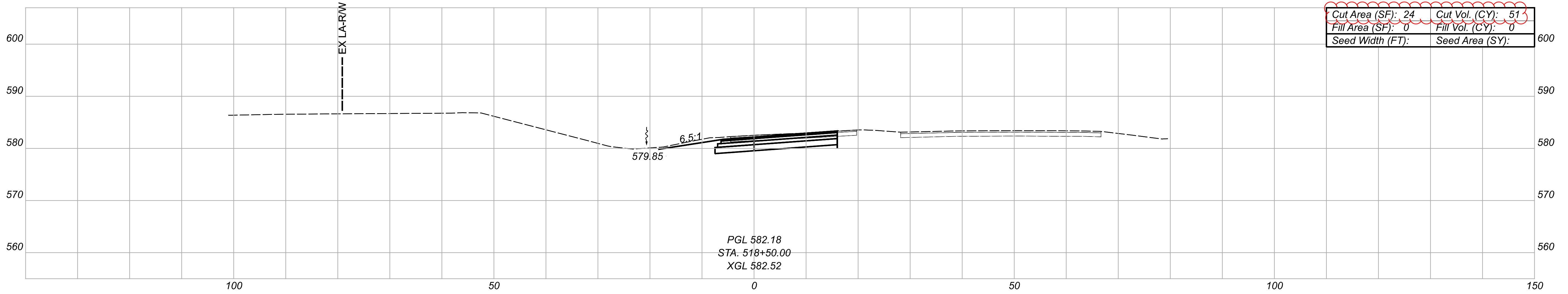
AJL 02/08/23

PROJECT ID

110859

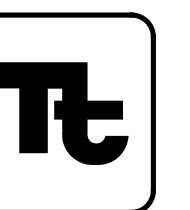
Sheet Totals		
Seeding	Cut	Fill
.	27	0

SHEET	TOTAL
P.138	290



CROSS SECTIONS - RAMP C
 STA. 517+50 TO STA. 518+50

DESIGN AGENCY

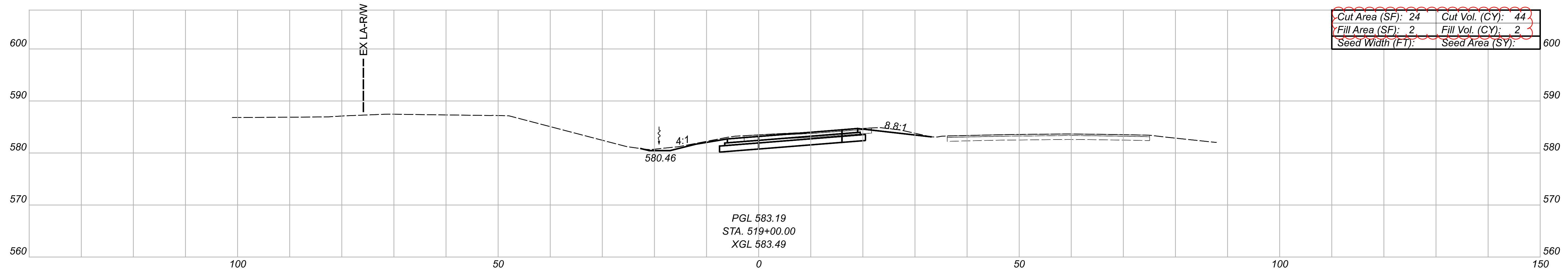
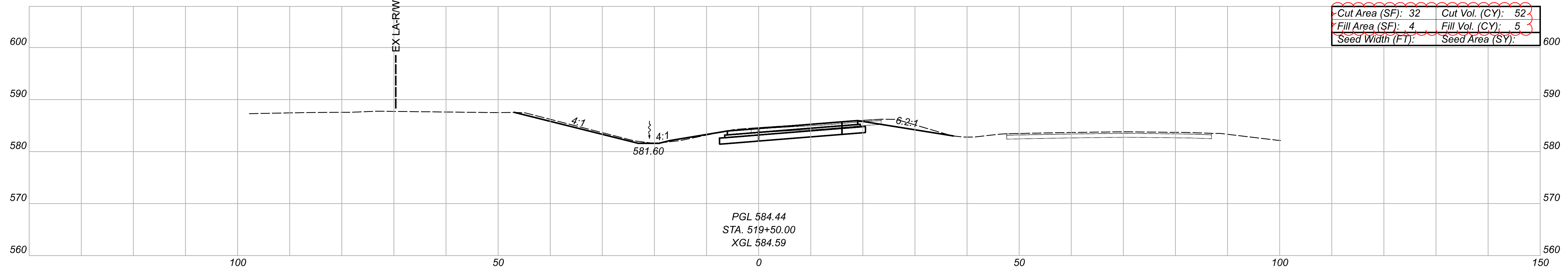
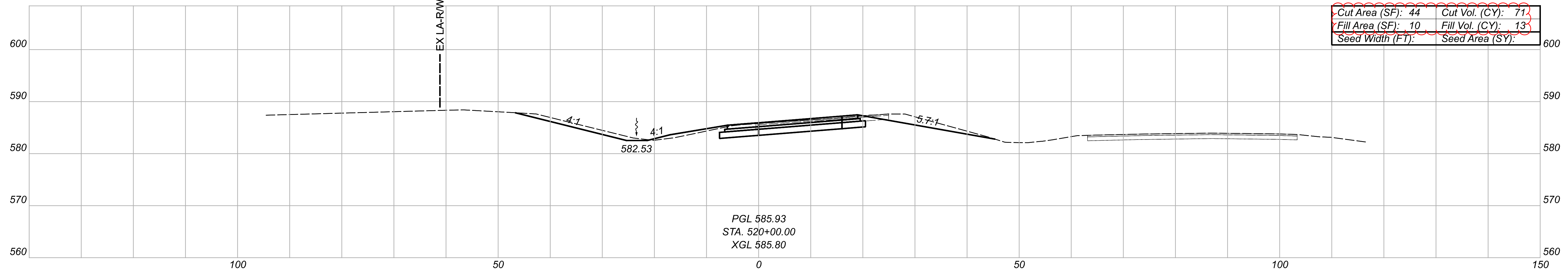


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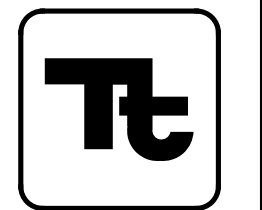
PROJECT ID
 110859

Sheet Totals			110859	
Seeding	Cut	Fill	SHEET	TOTAL
.	166	0	P.139	290



CROSS SECTIONS - RAMP C
 STA. 519+00 TO STA. 520+00

DESIGN AGENCY

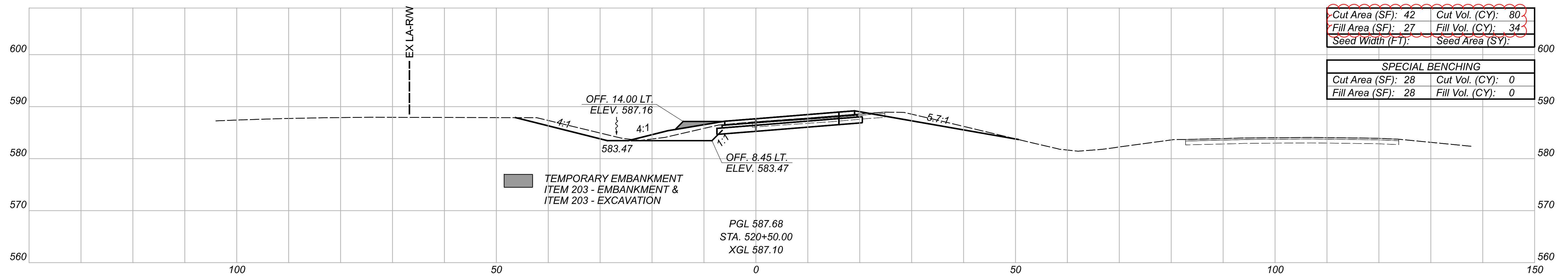
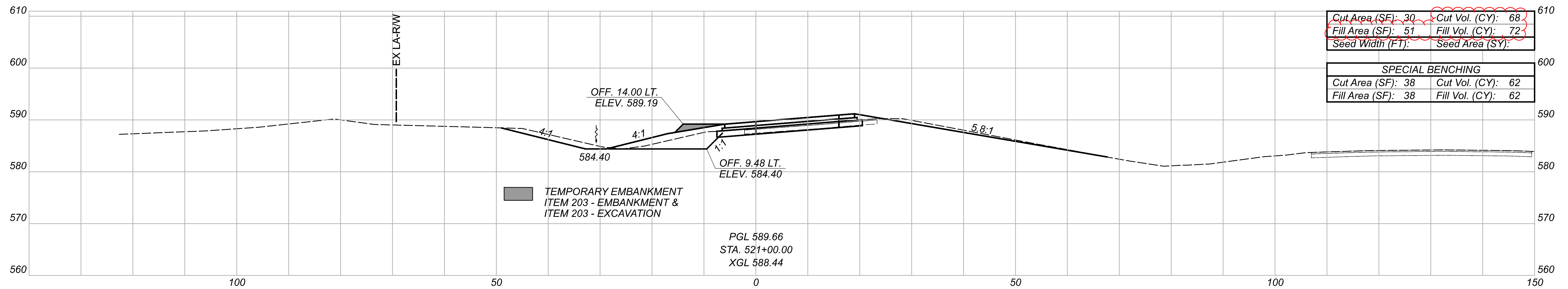
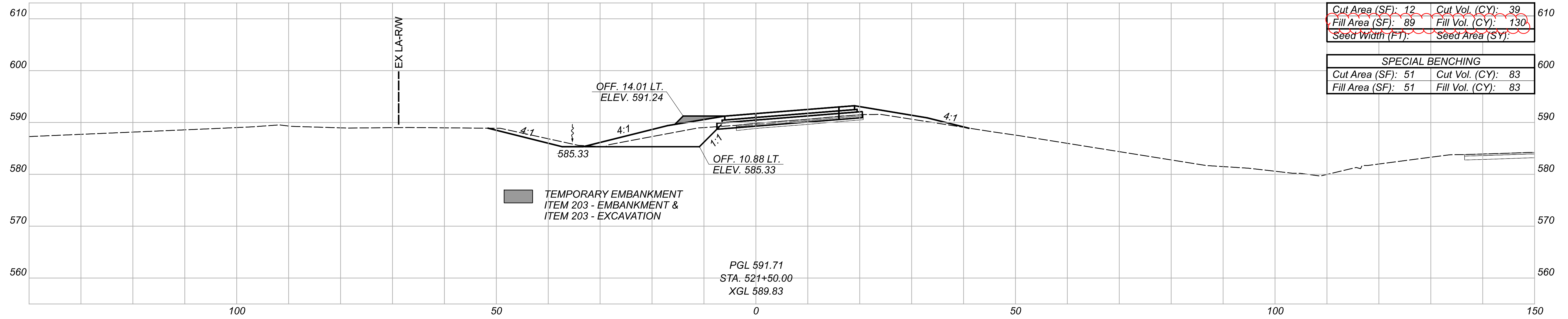


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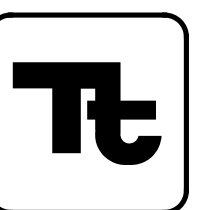
PROJECT ID
 110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.140	290
.	167	20		



CROSS SECTIONS - RAMP C
 STA. 520+50 TO STA. 521+50

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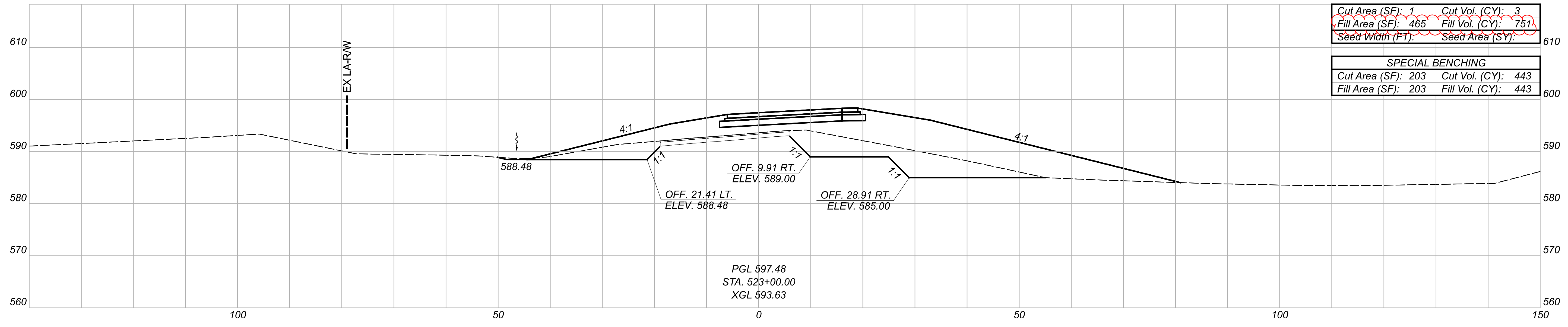
REVIEWER

AJL 02/08/23

PROJECT ID

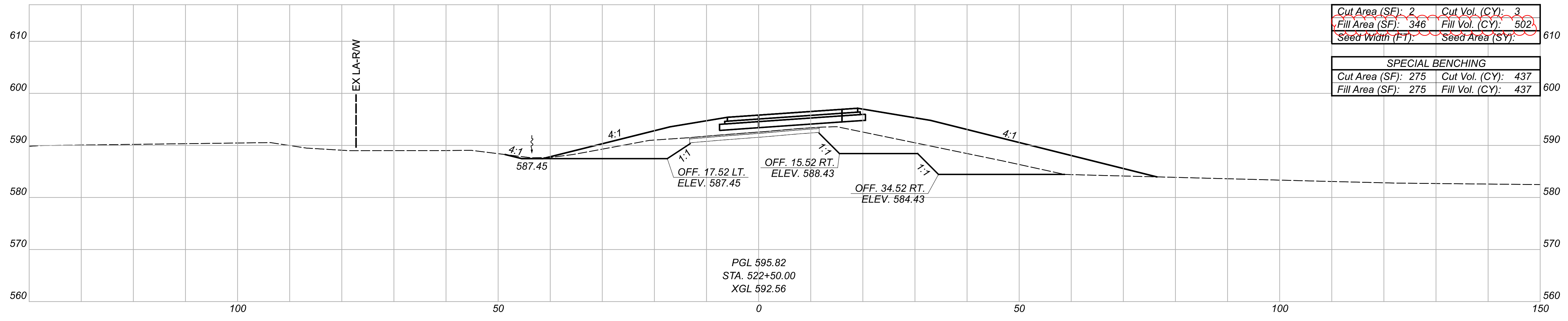
110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.141	290
.	332	381		



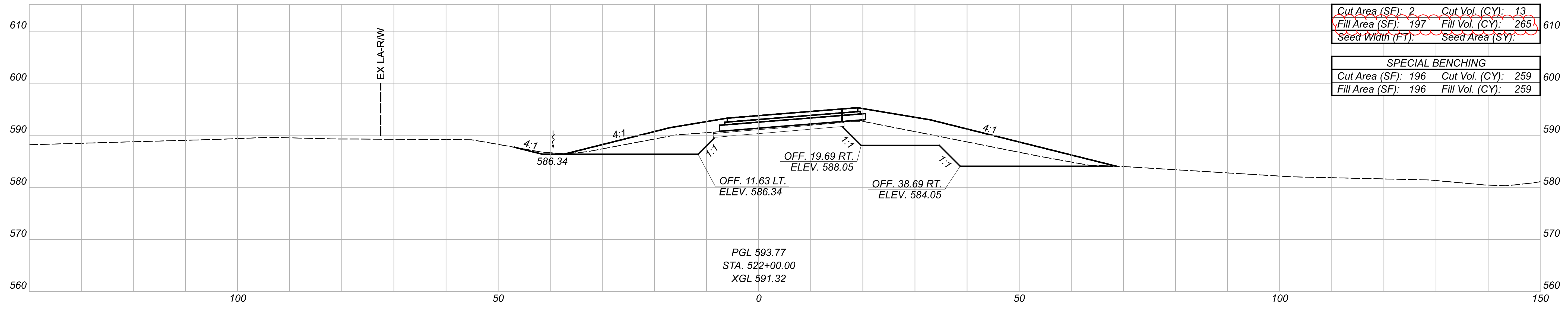
Cut Area (SF): 1	Cut Vol. (CY): 3
Fill Area (SF): 465	Fill Vol. (CY): 751
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 203	Cut Vol. (CY): 443
Fill Area (SF): 203	Fill Vol. (CY): 443



Cut Area (SF): 2	Cut Vol. (CY): 3
Fill Area (SF): 346	Fill Vol. (CY): 502
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 275	Cut Vol. (CY): 437
Fill Area (SF): 275	Fill Vol. (CY): 437

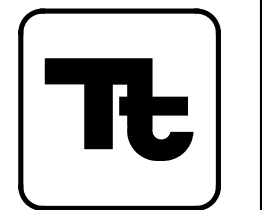


Cut Area (SF): 2	Cut Vol. (CY): 13
Fill Area (SF): 197	Fill Vol. (CY): 265
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 196	Cut Vol. (CY): 259
Fill Area (SF): 196	Fill Vol. (CY): 259

CROSS SECTIONS - RAMP C
 STA. 522+00 TO STA. 523+00

DESIGN AGENCY

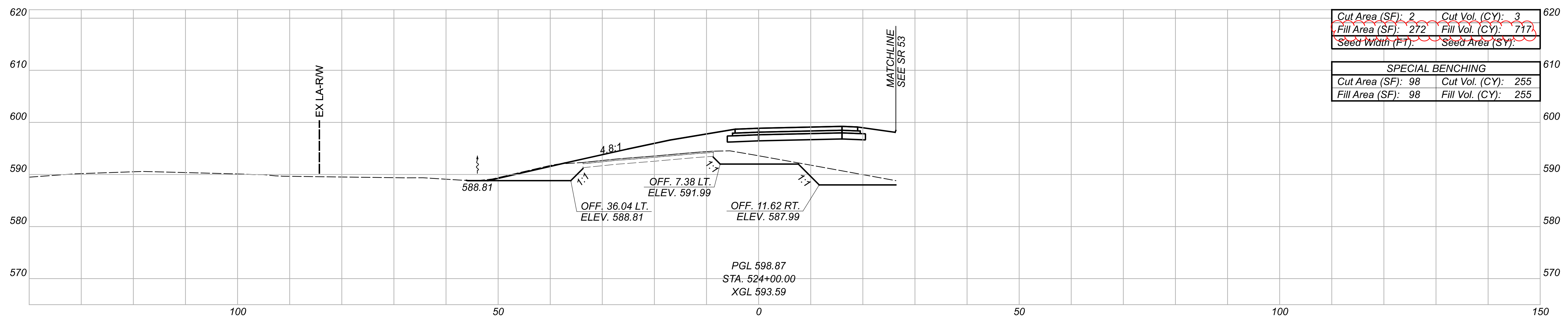


DESIGNER
 JPH

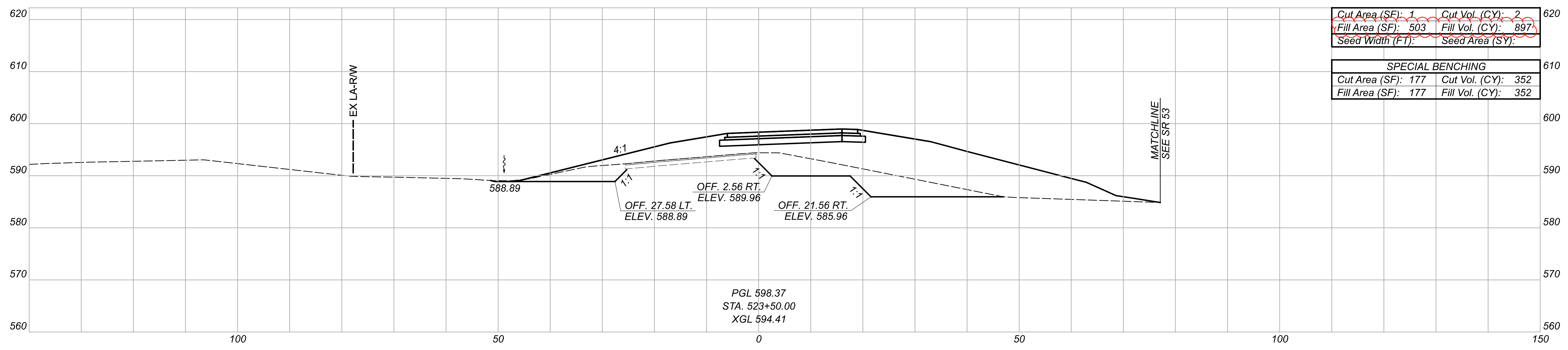
REVIEWER
 AJL 02/08/23

PROJECT ID
 110859

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill	P.142	290
	1158	2657		



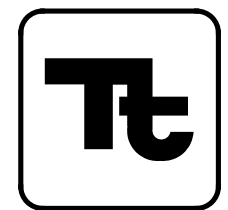
Cut Area (SF): 2	Cut Vol. (CY): 3
Fill Area (SF): 272	Fill Vol. (CY): 717
Seed Width (FT):	Seed Area (SY):
SPECIAL BENCHING	
Cut Area (SF): 98	Cut Vol. (CY): 255
Fill Area (SF): 98	Fill Vol. (CY): 255



Cut Area (SF): 1	Cut Vol. (CY): 2
Fill Area (SF): 503	Fill Vol. (CY): 897
Seed Width (FT):	Seed Area (SY):
SPECIAL BENCHING	
Cut Area (SF): 177	Cut Vol. (CY): 352
Fill Area (SF): 177	Fill Vol. (CY): 352

CROSS SECTIONS - RAMP C
 STA. 523+50 TO STA. 524+00

DESIGN AGENCY



DESIGNER

JPH

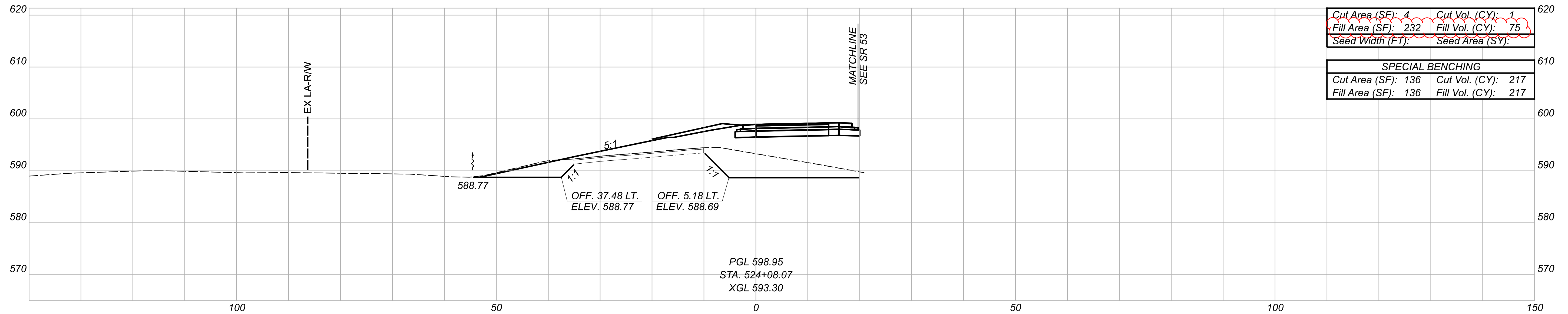
REVIEWER

AJL 02/08/23

PROJECT ID

110859

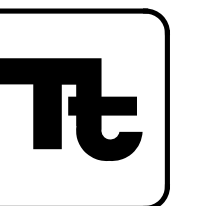
Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.143	290
.	612	2227		



Cut Area (SF): 4	Cut Vol. (CY): 1
Fill Area (SF): 232	Fill Vol. (CY): 75
Seed Width (FT):	Seed Area (SY):
SPECIAL BENCHING	
Cut Area (SF): 136	Cut Vol. (CY): 217
Fill Area (SF): 136	Fill Vol. (CY): 217

CROSS SECTIONS - RAMP C
 STA. 524+08.07

DESIGN AGENCY

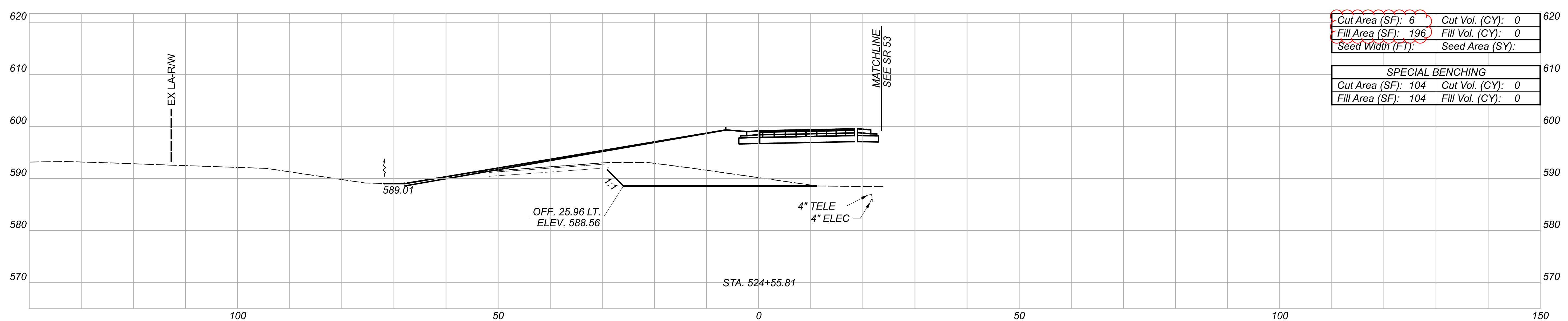
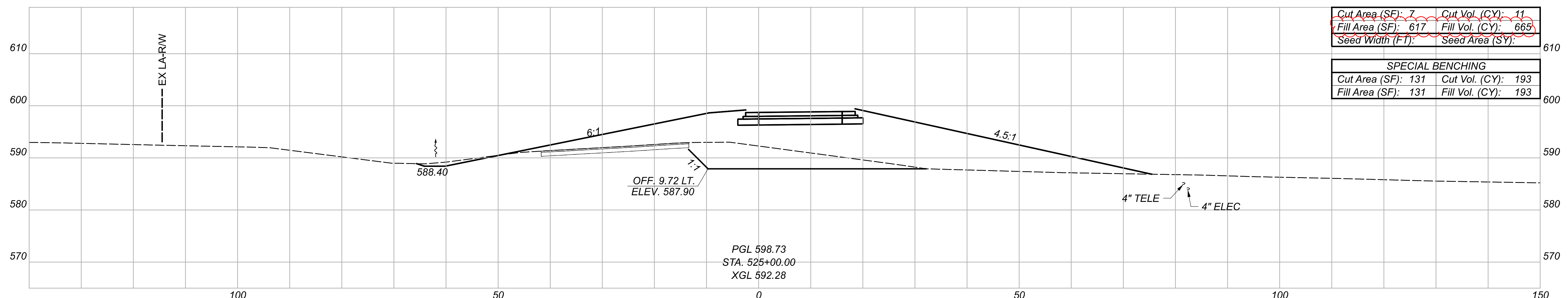
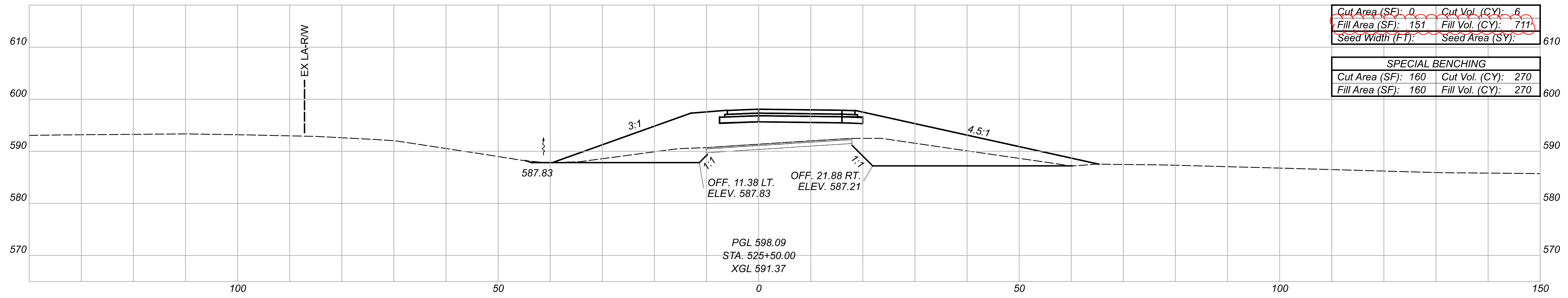


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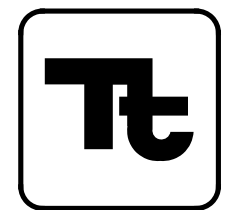
PROJECT ID
 110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.144	290
.	218	292		



CROSS SECTIONS - RAMP D
 STA. 524+55.81 TO STA. 525+50

DESIGN AGENCY

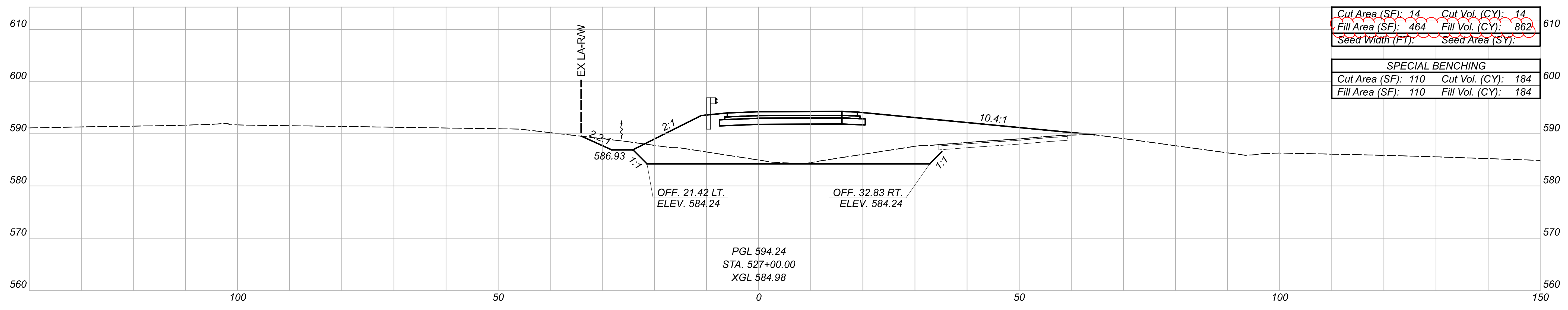


DESIGNER
 JPH

REVIEWER
 AJL 02/08/23

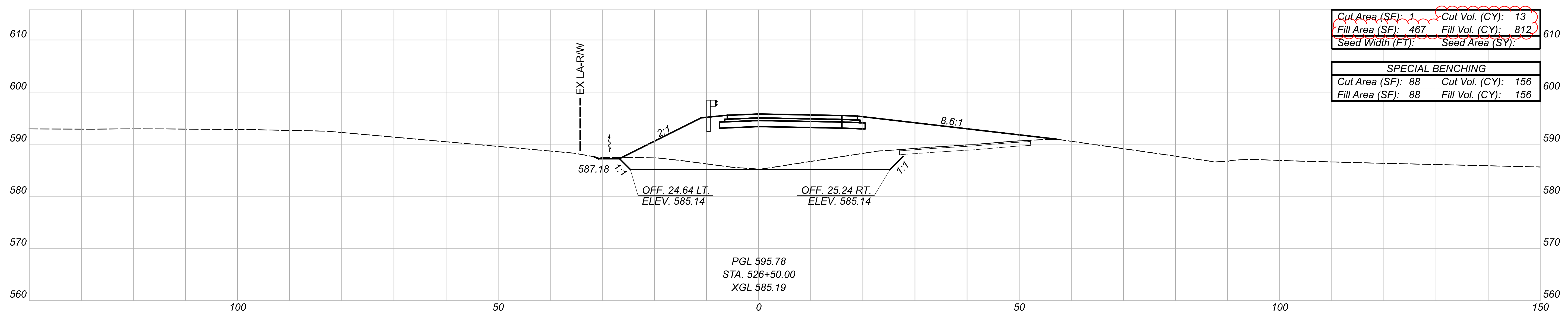
PROJECT ID
 110859

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill	P.145	290
	480	1839		



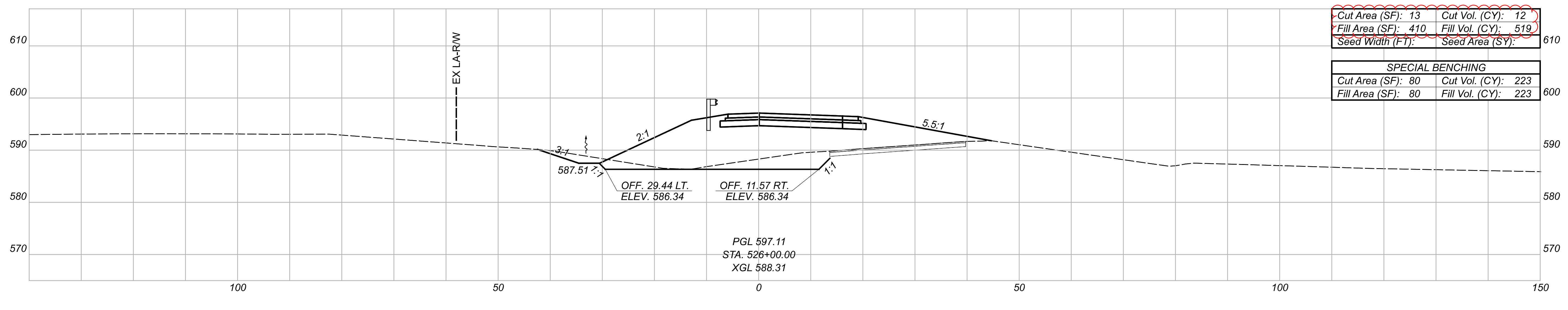
Cut Area (SF): 14	Cut Vol. (CY): 14
Fill Area (SF): 464	Fill Vol. (CY): 862
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 110	Cut Vol. (CY): 184
Fill Area (SF): 110	Fill Vol. (CY): 184



Cut Area (SF): 1	Cut Vol. (CY): 13
Fill Area (SF): 467	Fill Vol. (CY): 812
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 88	Cut Vol. (CY): 156
Fill Area (SF): 88	Fill Vol. (CY): 156

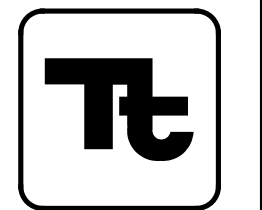


Cut Area (SF): 13	Cut Vol. (CY): 12
Fill Area (SF): 410	Fill Vol. (CY): 519
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 80	Cut Vol. (CY): 223
Fill Area (SF): 80	Fill Vol. (CY): 223

CROSS SECTIONS - RAMP D
 STA. 526+00 TO STA. 527+00

DESIGN AGENCY

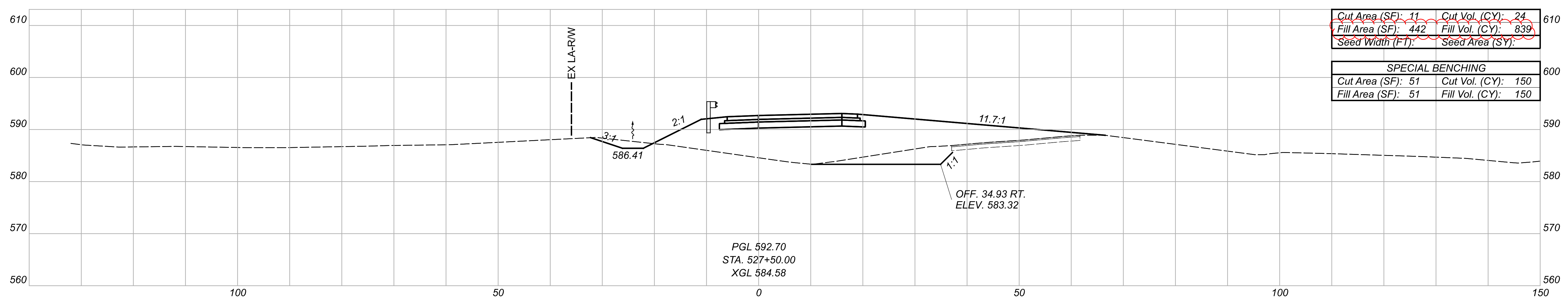
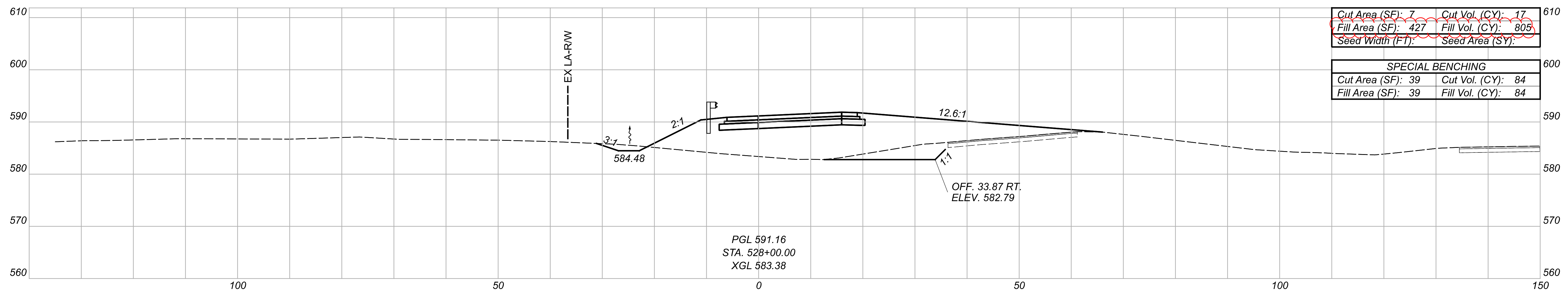
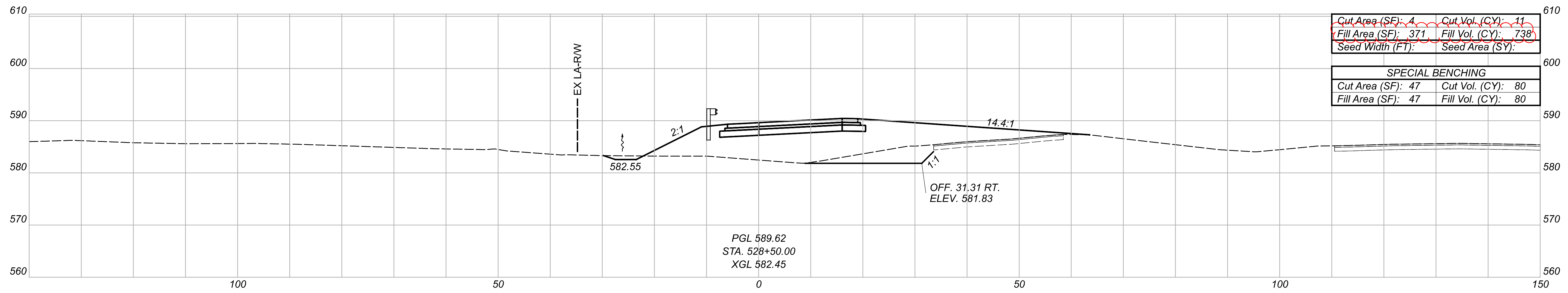


DESIGNER
 JPH

REVIEWER
 AJL 02/08/23

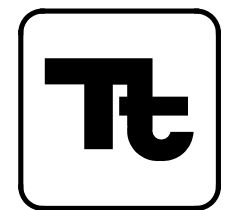
PROJECT ID
 110859

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
·	602	2756	P.146	290



CROSS SECTIONS - RAMP D
STA. 527+50 TO STA. 528+50

DESIGN AGENCY

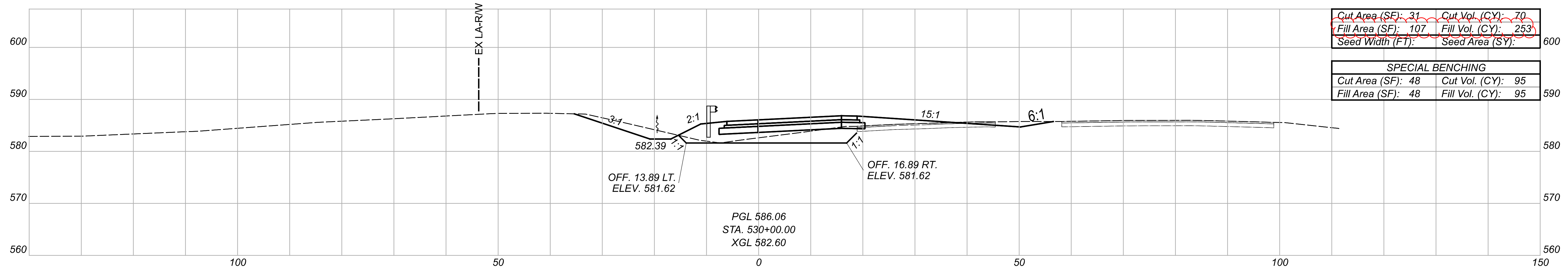


DESIGNER
JPH

REVIEWER
AJL 02/08/23

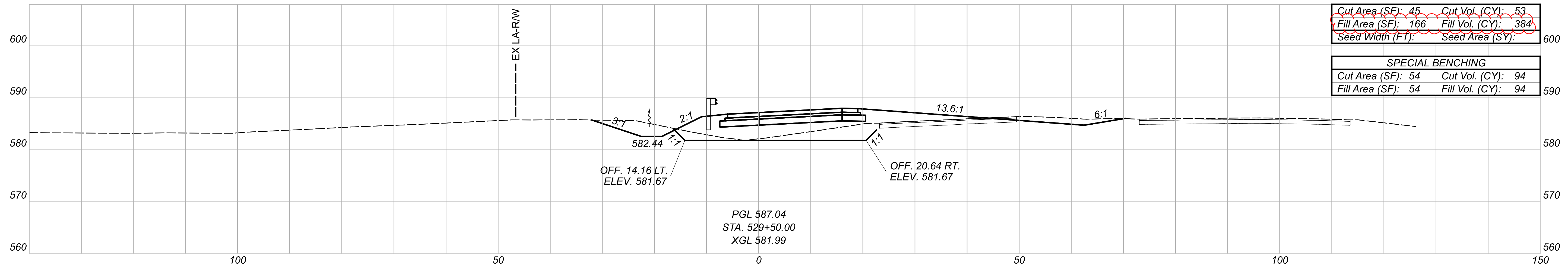
PROJECT ID
110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.147	290
.	366	2696		



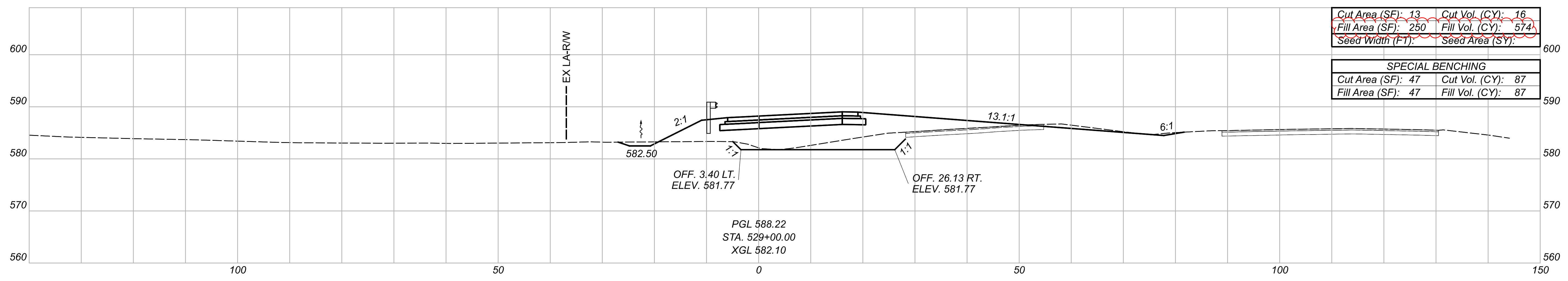
Cut Area (SF): 31	Cut Vol. (CY): 70
Fill Area (SF): 107	Fill Vol. (CY): 253
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 48	Cut Vol. (CY): 95
Fill Area (SF): 48	Fill Vol. (CY): 95



Cut Area (SF): 45	Cut Vol. (CY): 53
Fill Area (SF): 166	Fill Vol. (CY): 384
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 54	Cut Vol. (CY): 94
Fill Area (SF): 54	Fill Vol. (CY): 94

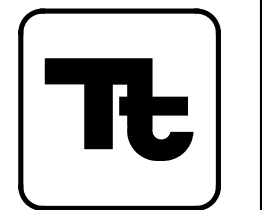


Cut Area (SF): 13	Cut Vol. (CY): 16
Fill Area (SF): 250	Fill Vol. (CY): 574
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 47	Cut Vol. (CY): 87
Fill Area (SF): 47	Fill Vol. (CY): 87

CROSS SECTIONS - RAMP D
 STA. 529+00 TO STA. 530+00

DESIGN AGENCY

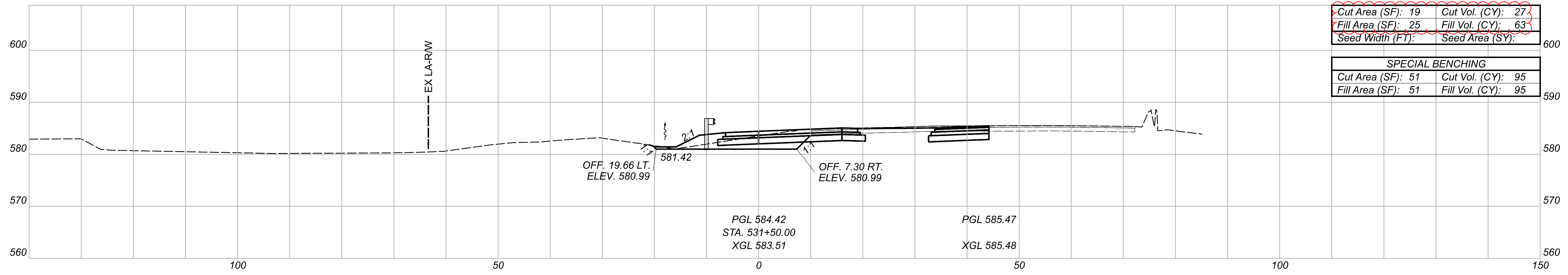


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REVIEWER
 AJL 02/08/23

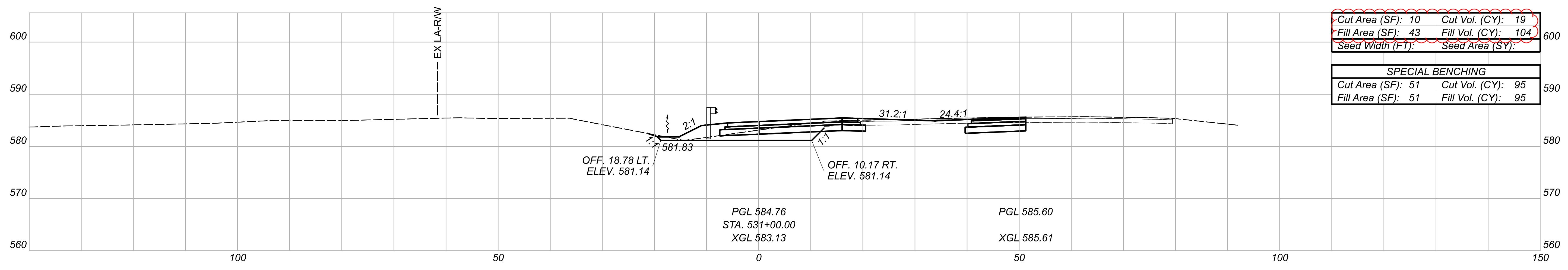
PROJECT ID
 110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.148	290
.	415	1487		



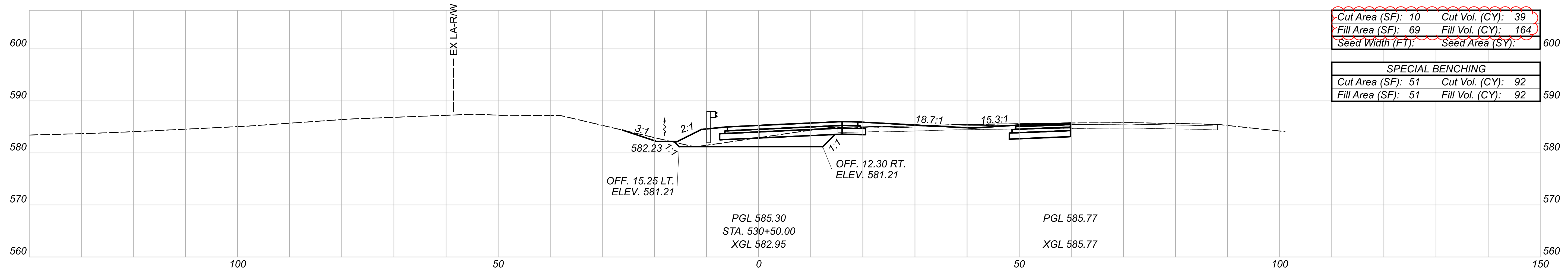
Cut Area (SF): 19	Cut Vol. (CY): 27
Fill Area (SF): 25	Fill Vol. (CY): 63
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 51	Cut Vol. (CY): 95
Fill Area (SF): 51	Fill Vol. (CY): 95



Cut Area (SF): 10	Cut Vol. (CY): 19
Fill Area (SF): 43	Fill Vol. (CY): 104
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 51	Cut Vol. (CY): 95
Fill Area (SF): 51	Fill Vol. (CY): 95

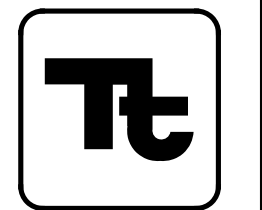


Cut Area (SF): 10	Cut Vol. (CY): 39
Fill Area (SF): 69	Fill Vol. (CY): 164
Seed Width (FT):	Seed Area (SY):

SPECIAL BENCHING	
Cut Area (SF): 51	Cut Vol. (CY): 92
Fill Area (SF): 51	Fill Vol. (CY): 92

CROSS SECTIONS - RAMP D
 STA. 530+50 TO STA. 531+50

DESIGN AGENCY

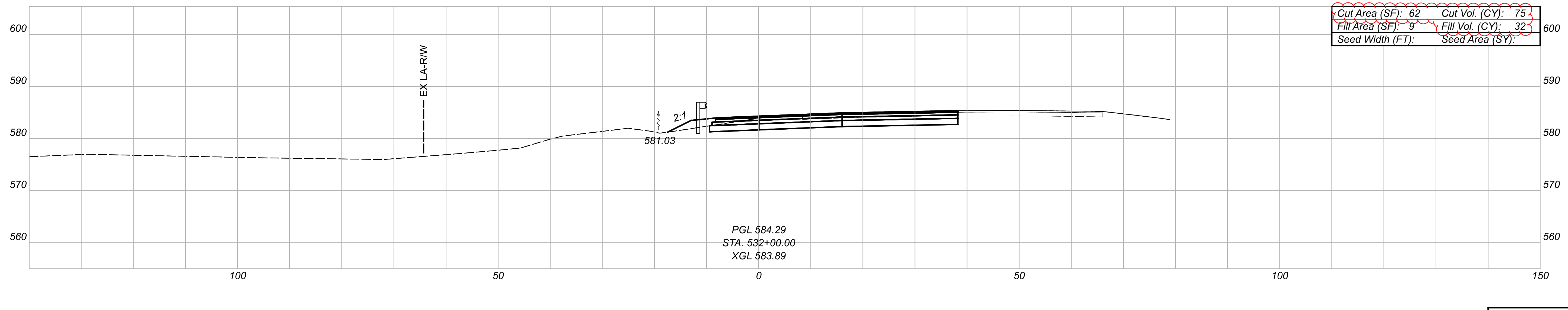
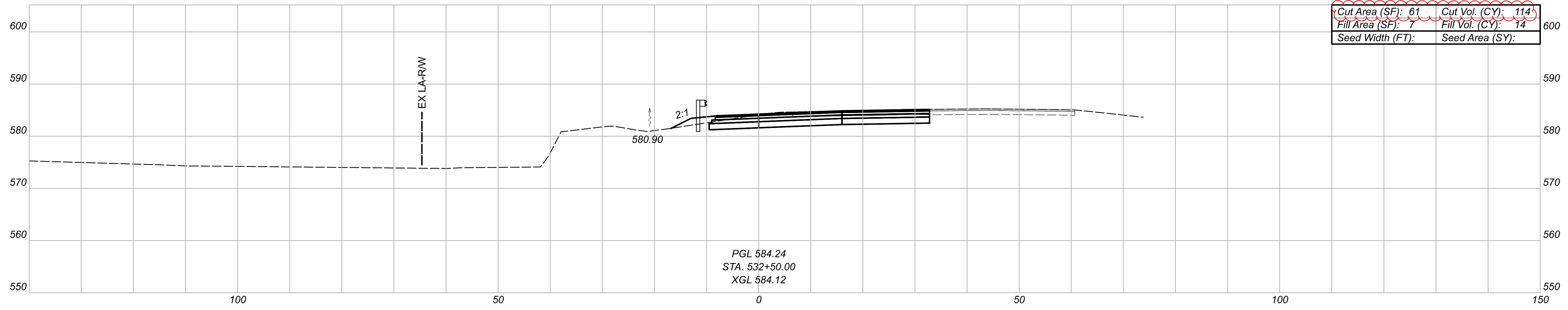
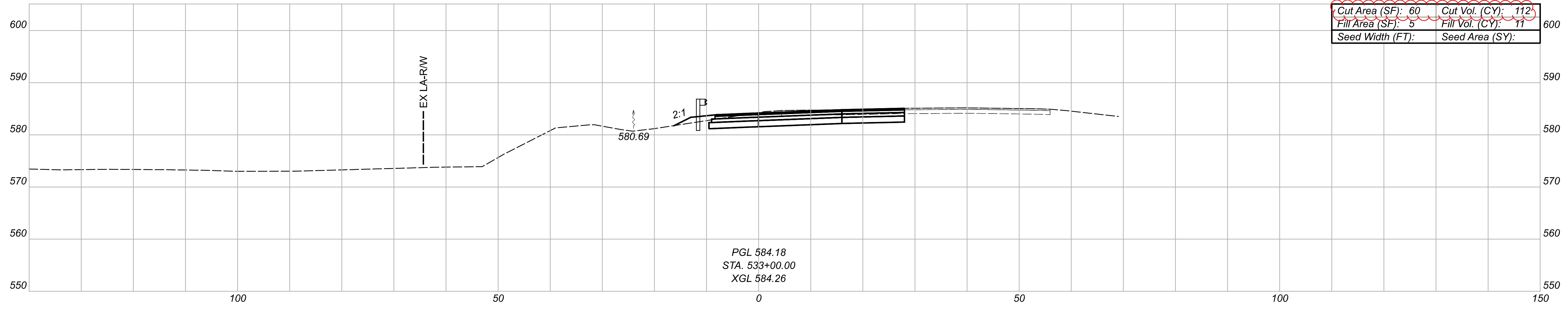


DESIGNER
 JPH

REVIEWER
 AJL 02/08/23

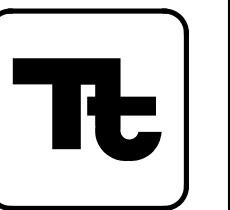
PROJECT ID
 110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.149	290
	367	613		



CROSS SECTIONS - RAMP D
STA. 532+00 TO STA. 533+00

DESIGN AGENCY

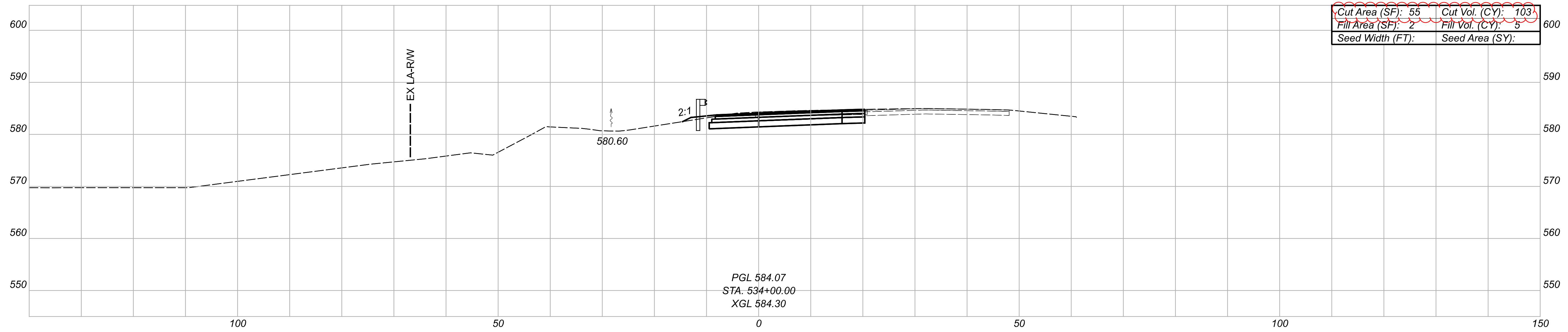


DESIGNER
JPH

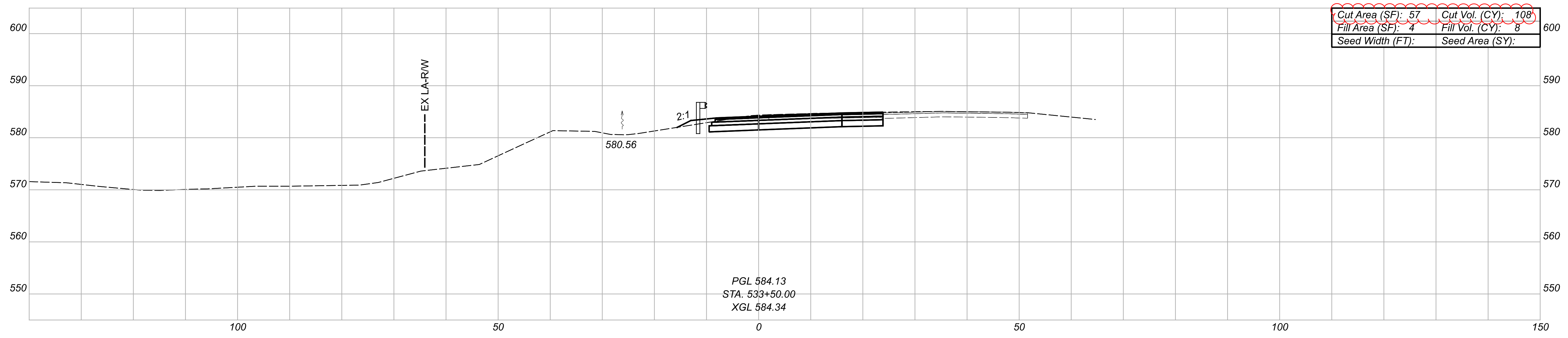
REVIEWER
AJL 02/08/23

PROJECT ID
110859

Sheet Totals			110859	
Seeding	Cut	Fill	SHEET	TOTAL
.	307	57	P.150	290



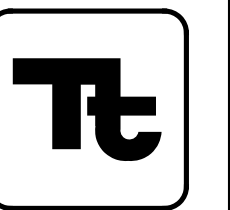
PGL 584.07
 STA. 534+00.00
 XGL 584.30



PGL 584.13
 STA. 533+50.00
 XGL 584.34

CROSS SECTIONS - RAMP D
 STA. 533+50 TO STA. 534+00

DESIGN AGENCY



DESIGNER

JPH

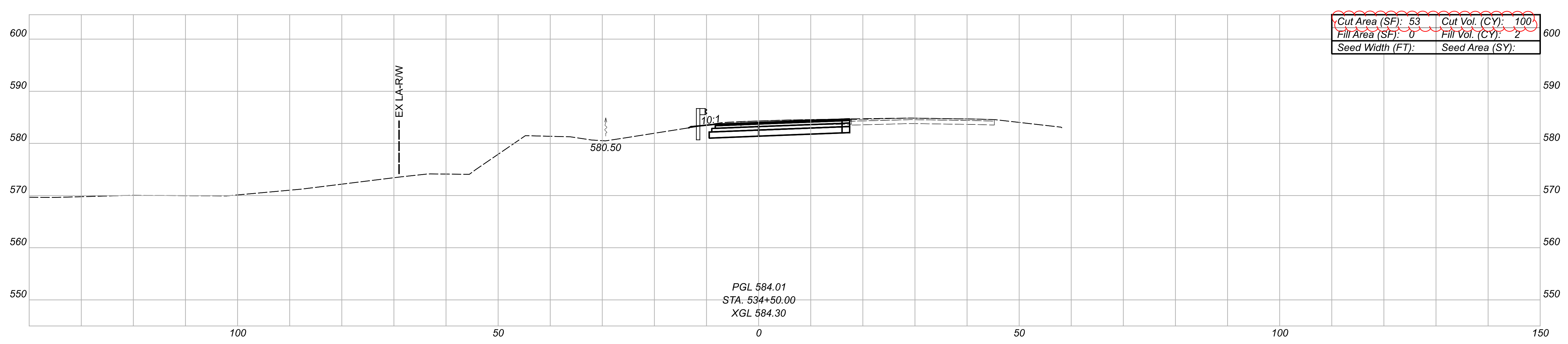
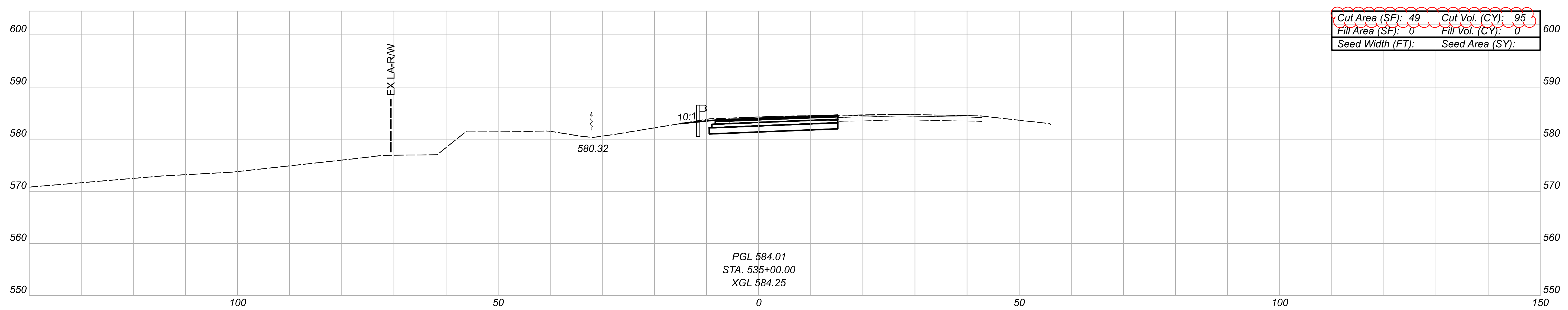
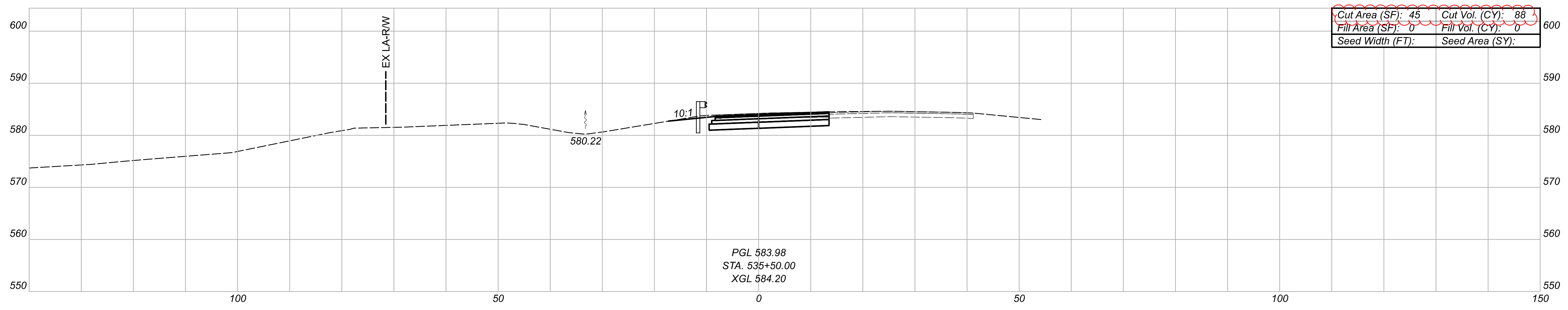
REVIEWER

AJL 02/08/23

PROJECT ID

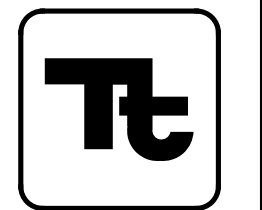
110859

Sheet Totals			110859
Seeding	Cut	Fill	TOTAL
.	241	13	P.151 290



CROSS SECTIONS - RAMP D
 STA. 534+50 TO STA. 535+50

DESIGN AGENCY

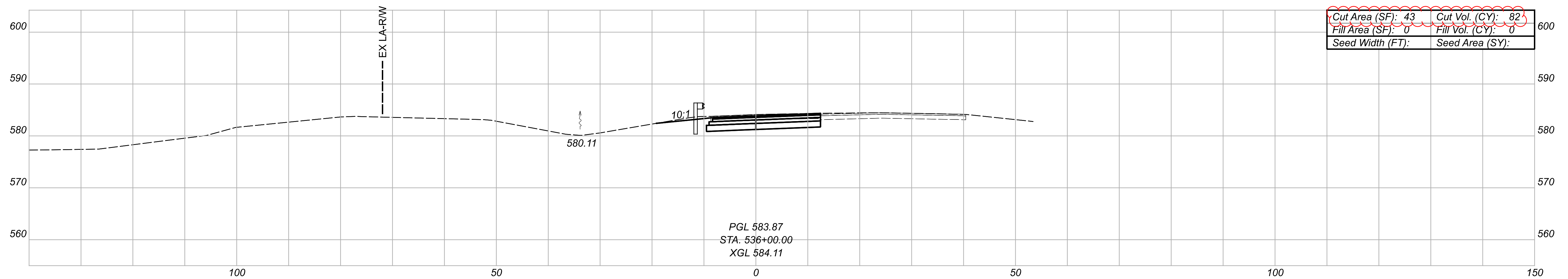
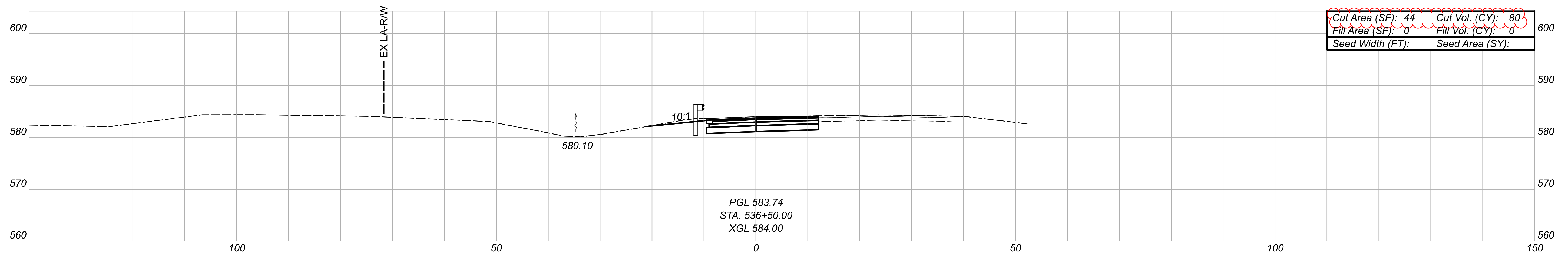
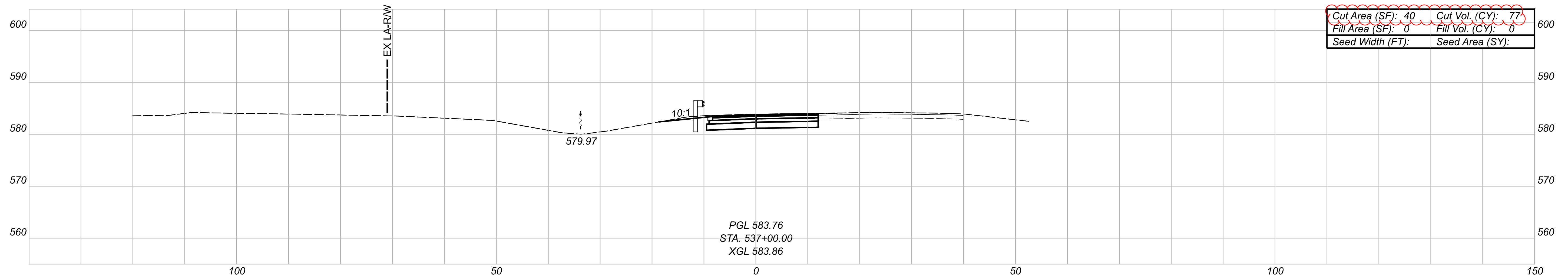


DESIGNER
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REVIEWER
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PROJECT ID
 110859

Sheet Totals			TOTAL	
Seeding	Cut	Fill	SHEET	TOTAL
.	283	2	P.152	290



Sheet Totals			110859	
Seeding	Cut	Fill	SHEET	TOTAL
.	239	0	P.153	290

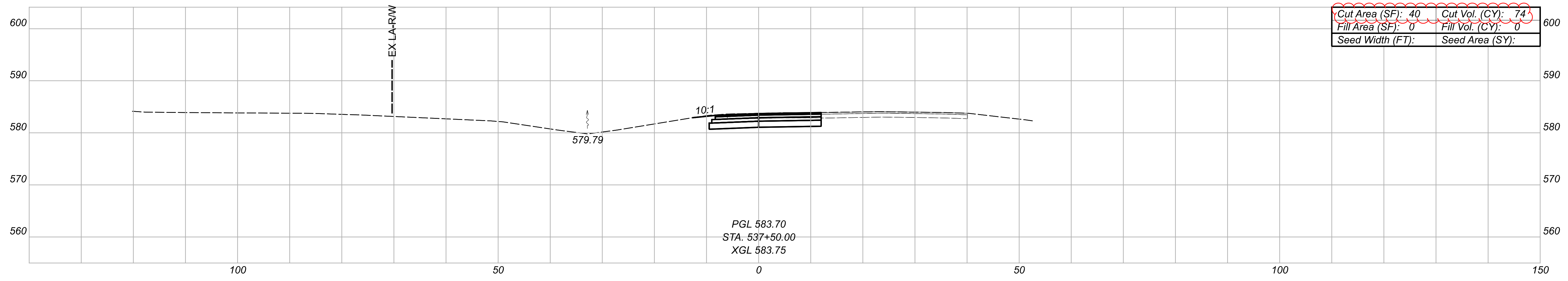
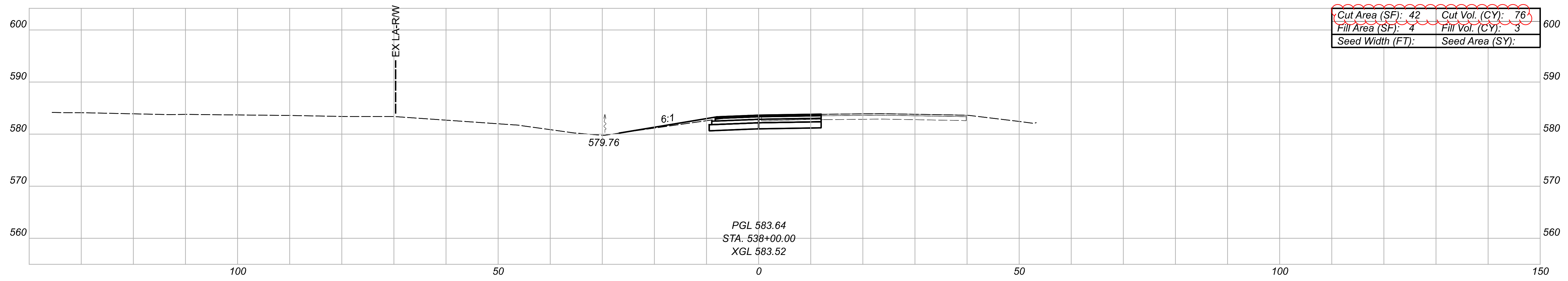
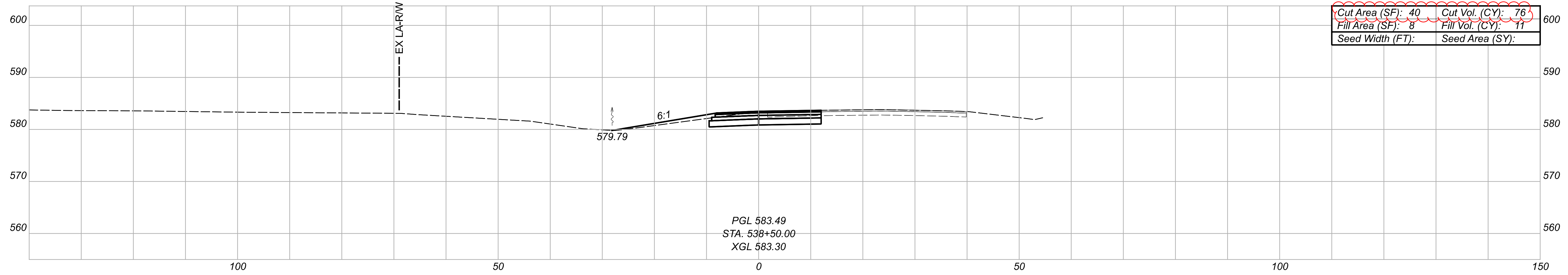
CROSS SECTIONS - RAMP D
 STA. 536+00 TO STA. 537+00



DESIGNER
 JPH

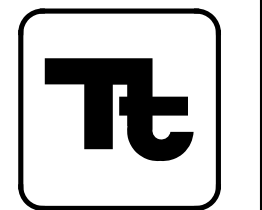
REVIEWER
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PROJECT ID
 110859



CROSS SECTIONS - RAMP D
STA. 537+50 TO STA. 538+50

DESIGN AGENCY



DESIGNER

JPH

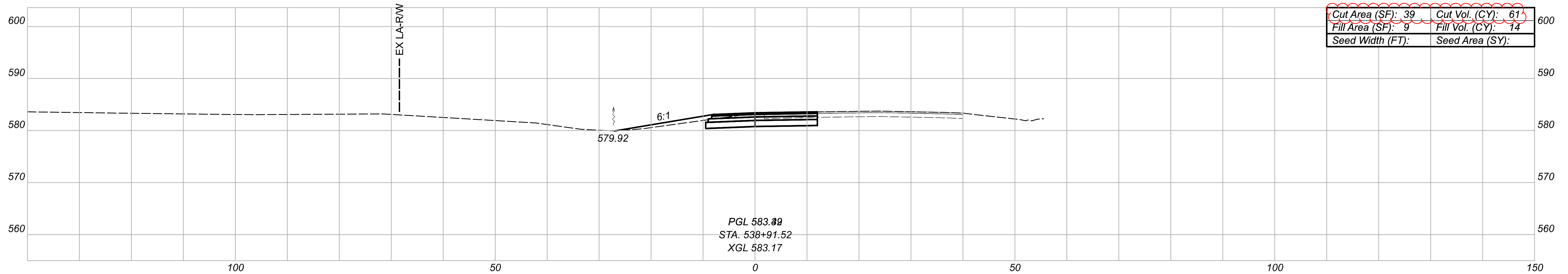
REVIEWER

AJL 02/08/23

PROJECT ID

110859

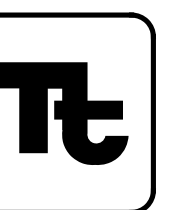
Sheet Totals			TOTAL	
Seeding	Cut	Fill	SHEET	TOTAL
.	226	14	P.154	290



PGL 583.89
STA. 538+91.52
XGL 583.17

CROSS SECTIONS - RAMP D
STA. 538+91.52

DESIGN AGENCY

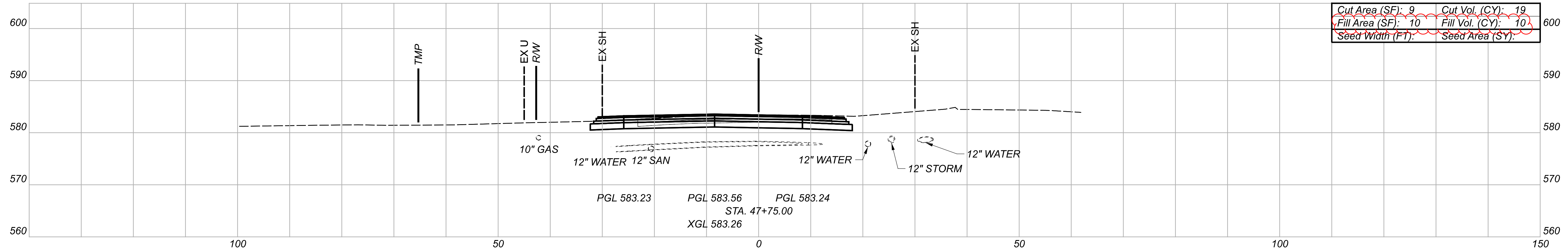


DESIGNER
JPH

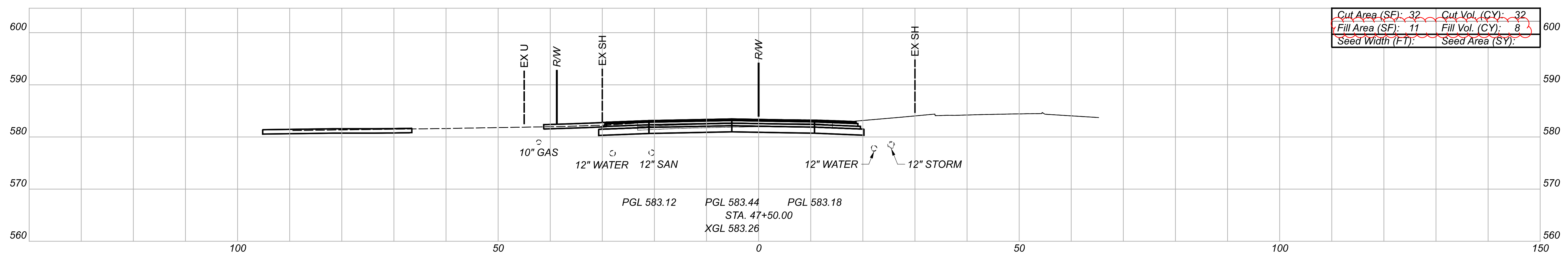
REVIEWER
AJL 02/08/23

PROJECT ID
110859

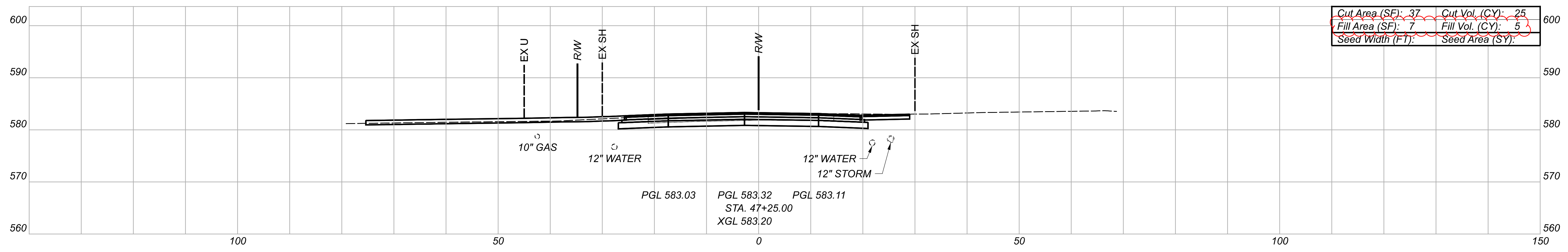
Sheet Totals			110859	
Seeding	Cut	Fill	SHEET	TOTAL
.	61	14	P.155	290



Cut Area (SF): 9	Cut Vol. (CY): 19
Fill Area (SF): 10	Fill Vol. (CY): 10
Seed Width (FT):	Seed Area (SY):



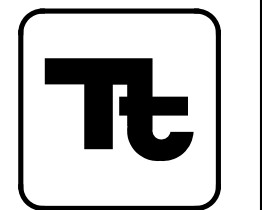
Cut Area (SF): 32	Cut Vol. (CY): 32
Fill Area (SF): 11	Fill Vol. (CY): 8
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 37	Cut Vol. (CY): 25
Fill Area (SF): 7	Fill Vol. (CY): 5
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - STATE ROAD
 STA. 47+25 TO STA. 47+75

DESIGN AGENCY

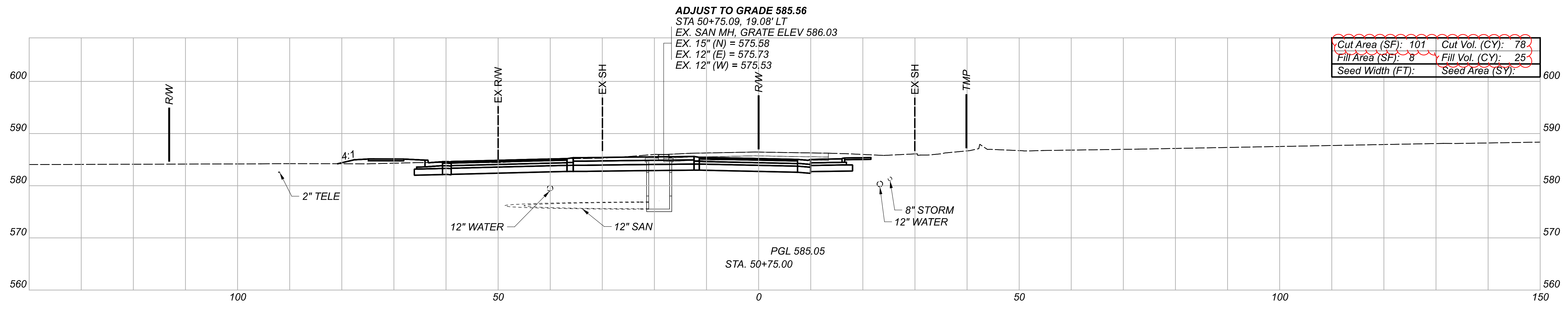


DESIGNER
 RJS

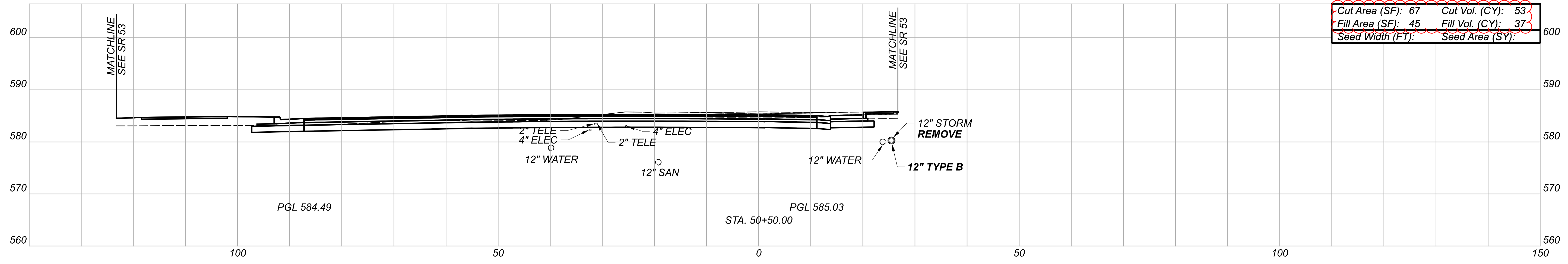
REVIEWER
 AJL 02/08/23

PROJECT ID
 110859

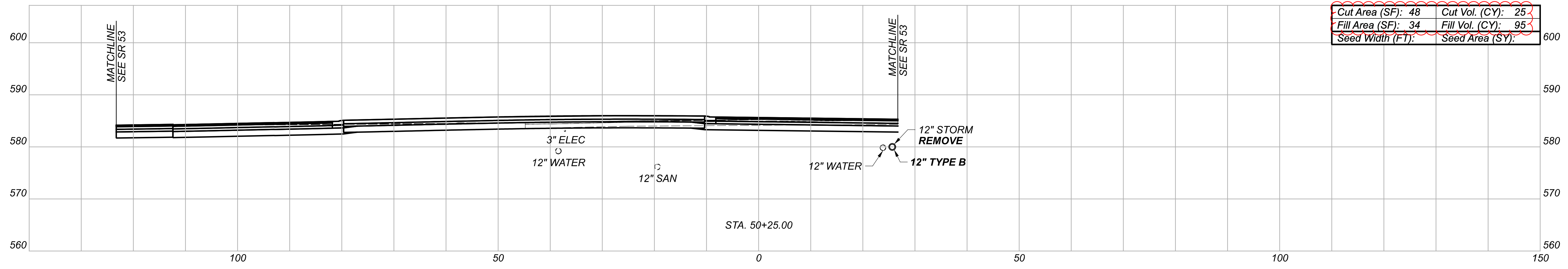
Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
.	76	23	P.158	290



Cut Area (SF): 101	Cut Vol. (CY): 78
Fill Area (SF): 8	Fill Vol. (CY): 25
Seed Width (FT):	Seed Area (SY):



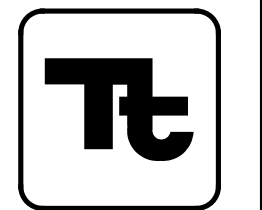
Cut Area (SF): 67	Cut Vol. (CY): 53
Fill Area (SF): 45	Fill Vol. (CY): 37
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 48	Cut Vol. (CY): 25
Fill Area (SF): 34	Fill Vol. (CY): 95
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - STATE ROAD
 STA. 50+25 TO STA. 50+75

DESIGN AGENCY

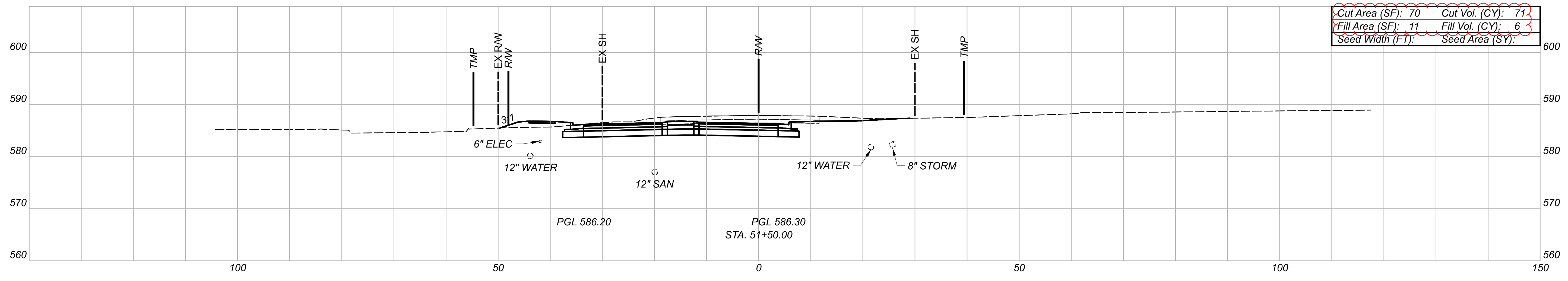


DESIGNER
 RJS

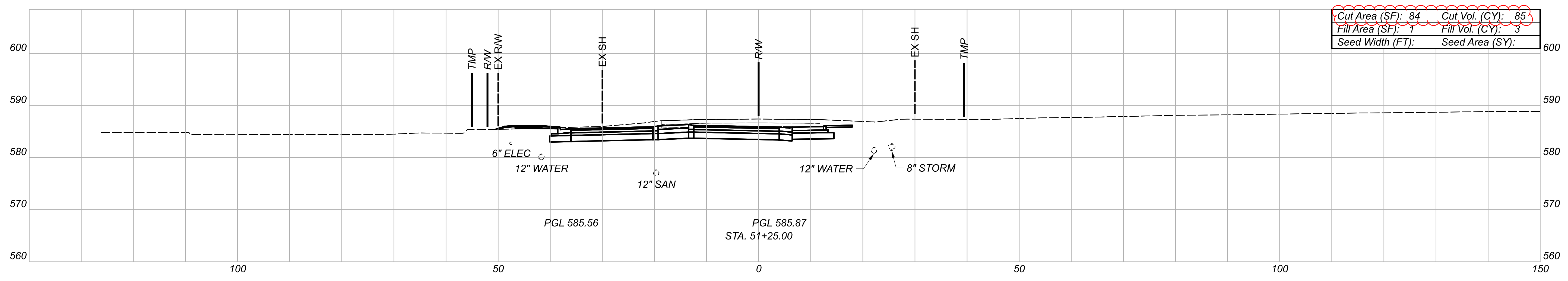
REVIEWER
 AJL 02/08/23

PROJECT ID
 110859

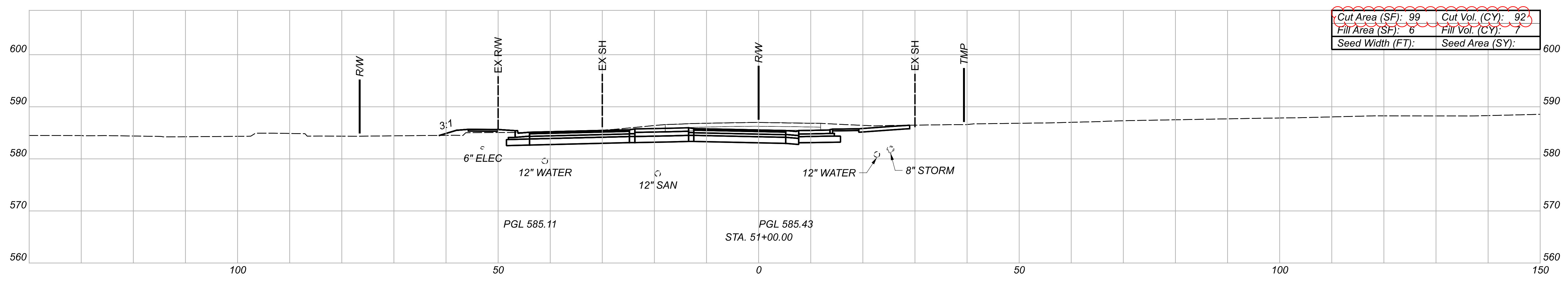
Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
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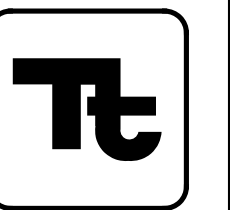
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Seed Width (FT):	Seed Area (SY):



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Fill Area (SF): 6	Fill Vol. (CY): 7
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - STATE ROAD
 STA. 51+00 TO STA. 51+50

DESIGN AGENCY



DESIGNER

RJS

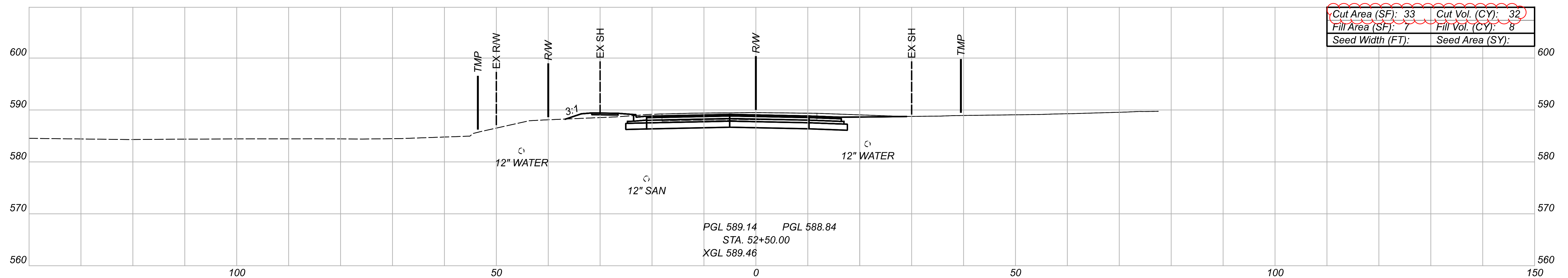
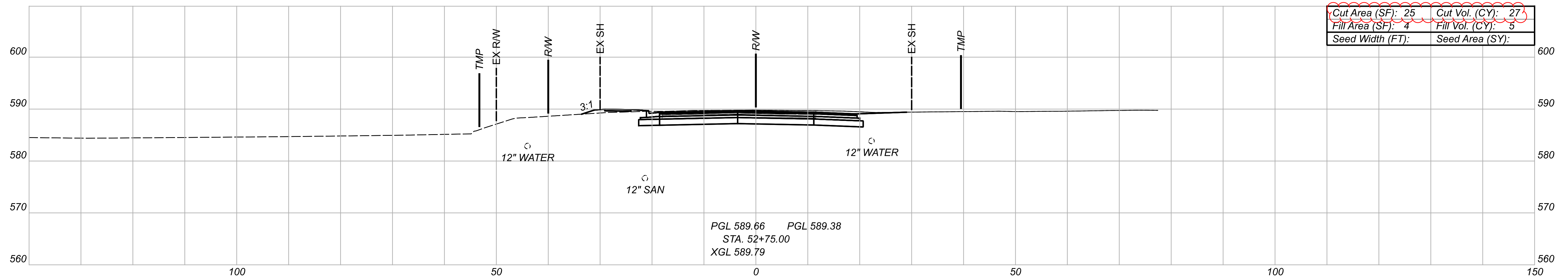
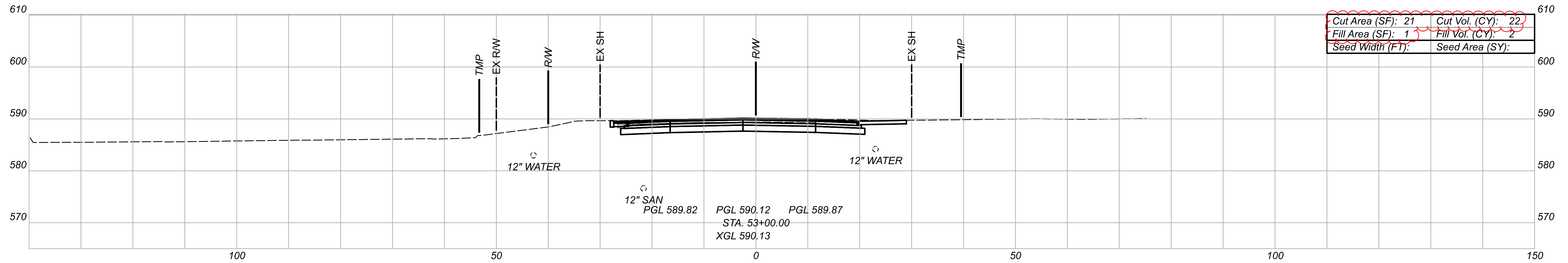
REVIEWER

AJL 02/08/23

PROJECT ID

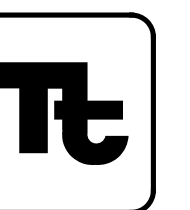
110859

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
.	248	16	P.163	290



CROSS SECTIONS - STATE ROAD
 STA. 52+50 TO STA. 53+00

DESIGN AGENCY



DESIGNER
 RJS

REVIEWER
 AJL 02/08/23

PROJECT ID
 110859

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	P.165	TOTAL
.	81	12		290

ITEM 620 DELINEATOR, MISC.: HIGH INTENSITY RETRO-REFLECTIVE ISLAND BULLNOSE MARKER

THE CONTRACTOR SHALL USE A HIGH INTENSITY RETRO-REFLECTIVE ISLAND SURFACE MOUNTED BULLNOSE MARKER, WITH A MINIMUM OF 224 SQUARE INCHES OF SOLID YELLOW REFLECTIVE SHEETING ON EACH SIDE WITH A RANGE OF 28 INCHES TO 42 INCHES IN HEIGHT. DISTRIBUTION OF SAID PRODUCT SHALL COME FROM ONE OF THE FOLLOWING DISTRIBUTORS: QWICK KURB INC (L104 AIR MARKER), NATIONAL TRAFFIC SIGNS INC (42HIGHVIS-W-SM-DS), AND FLEXSTAKE INC. (SM 700 SERIES).

ITEM 630 - GROUND MOUNTED NO. 3 POST, AS PER PLAN

THIS ITEM SHALL CONSIST OF INSTALLING A GROUND MOUNTED NO. 3 POST WITH THE EMBEDMENT DEPTH OF A MINIMUM OF 48". ADDITIONAL EMBEDMENT DEPTH IS INCLUDED IN THE PLAN QUANTITY PRICE FOR:

ITEM 630, GROUND MOUNTED NO.3 POST, AS PER PLAN.

ITEM 630, SIGN POST REFLECTOR, AS PER PLAN

IN ADDITION TO THE POST SUPPORT, THE CONTRACTOR SHALL PROVIDE SIGN POST REFLECTORS IN ACCORDANCE WITH SCD TC-41.30 AS PART OF THIS PAY ITEM. THE SIGN POST SHALL BE REFLECTORIZED WITHIN 1" BELOW THE SIGN TO WITHIN 1' OF THE GROUND ELEVATION BELOW THE SIGN. THE REFLECTIVE SHEETING, TYPE AND MANUFACTURER, SHALL MATCH THAT OF THE PROPOSED SIGN TO INSURE THAT THE REFLECTIVITY IS CONSISTENT. ONLY 36" LENGTH STRIPS SHALL BE USED.

ITEM 630, SIGNING, MISC., 4"x6" POST

THIS ITEM SHALL CONSIST OF INSTALLING A GROUND MOUNTED 4"x6" SOLID WOOD POST. FIGURE 298-26 OF THE TRAFFIC ENGINEERING MANUAL (P. 2-219) SHALL BE USED AS A GUIDE FOR INSTALLATION OF THE 4"x6" POST.

GRADE 2 SOUTHERN YELLOW PINE SHALL BE USED, AND SHALL BE PRESSURE TREATED WITH CCA PRESERVATIVE.

U-CHANNEL DRIVE POSTS OF THE SAME HEIGHTS AS THE SIGN, WILL BE ATTACHED TO THE WOOD POST WITH 5/8" SQUARE HEAD, GALVANIZED BOLTS, NUTS AND WASHERS. THE SIGNS WILL THEN BE INSTALLED USING STANDARD SIGN CLIPS.

ITEM 630, SIGNING, MISC., 6"x8" WOOD POST

THIS ITEM SHALL CONSIST OF INSTALLING A GROUND MOUNTED 6"x8" SOLID WOOD POST. FIGURE 298-26 OF THE TRAFFIC ENGINEERING MANUAL (P. 2-219) SHALL BE USED AS A GUIDE FOR INSTALLATION OF THE 6"x8" POST.

GRADE 2 SOUTHERN YELLOW PINE SHALL BE USED, AND SHALL BE PRESSURE TREATED WITH CCA PRESERVATIVE.

U-CHANNEL DRIVE POSTS OF THE SAME HEIGHTS AS THE SIGN, WILL BE ATTACHED TO THE WOOD POST WITH 5/8" SQUARE HEAD, GALVANIZED BOLTS, NUTS AND WASHERS. THE SIGNS WILL THEN BE INSTALLED USING STANDARD SIGN CLIPS.

ITEM 630 GROUND MOUNTED STRUCTURAL BEAM FOUNDATION, AS PER PLAN

FOUNDATIONS FOR WOOD POSTS SHALL BE CONCRETE AND SIZED AS SPECIFIED FOR W6X9 SIZE SUPPORTS IN SCD TC-41.10.

ITEM 630 SIGNING MISC.: LED ENHANCED W2-6 48"x48" SIGN ASSEMBLY

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A SOLAR POWERED LED ENHANCED SIGN ASSEMBLY.

THE FOLLOWING SHALL APPLY AS THE MINIMUM ACCEPTABLE DESIGN AND PERFORMANCE REQUIREMENTS FOR LED-ENHANCED HIGHWAY SIGNS. THE SIGNS MUST BE SELF-POWERED BY SOLAR PANELS AND LONG-LIFE BATTERIES WITH NO EXTERNAL ELECTRICAL POWER INSTALLATION.

THE HIGHWAY SIGNS MUST CONFORM TO THE REQUIREMENTS IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 630.04 OF THE 2019 ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE IV, IX OR XI RETROREFLECTIVE SHEETING CONFORMING TO SECTION 730.19, 730.192 AND 730.193, RESPECTIVELY, OF THE 2019 ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND LISTED ON THE DEPARTMENT'S QUALIFIED PRODUCTS LISTS.

THIS SIGN SHALL BE INSTALLED ON THE SUPPORT SPECIFIED IN THE PLANS. ALL HARDWARE FOR INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. THE SIGN UNIT SHALL ATTACH SECURELY TO THE SIGN SUPPORT, USING A TAMPER RESISTANT FASTENING SYSTEM. SPECIAL TOOLS NEEDED FOR THE TAMPER RESISTANT FASTENING SYSTEM SHALL BE SUPPLIED WITH EACH SIGN.

EACH SIGN UNIT SHALL BE IDENTIFIED WITH THE MANUFACTURER'S NAME, DATE OF MANUFACTURE AND SERIAL NUMBER ON THE BACK SIDE.

THE ASSEMBLY AND MANUFACTURING PROCESS FOR THE SIGN ASSEMBLY SHALL BE SUCH AS TO ASSURE ALL INTERNAL ELECTRONIC COMPONENTS ARE ADEQUATELY SUPPORTED TO WITHSTAND MECHANICAL SHOCK AND VIBRATION FROM HIGH WINDS AND OTHER SOURCES. THE SIGN UNIT SHALL BE VISIBLE AT A MINIMUM OF 10,000 FEET DURING NORMAL CONDITIONS. THE SIGN SHALL OPERATE CONTINUOUSLY 24 HOURS PER DAY, SEVEN DAYS PER WEEK. THE SIGN SHALL BE CAPABLE OF OPERATING A MINIMUM OF FIVE DAYS CONTINUOUSLY WITHOUT SUNLIGHT. THE SIGN UNIT SHALL INCORPORATE CIRCUITRY TO ADJUST BRIGHTNESS DURING DAY OR NIGHT.

A MINIMUM OF EIGHT LED UNITS SHALL BE USED AROUND THE PERIMETER OF THE SIGN. THE INDIVIDUAL LED LIGHT SOURCES SHALL BE ABLE TO BE REPLACED IN THE FIELD. THE LEDS SHALL FLASH SIMULTANEOUSLY AT A RATE OF 50 TO 60 TIMES PER MINUTE.

THE LENSES OF THE LED UNIT SHALL BE CAPABLE OF WITHSTANDING ULTRAVIOLET LIGHT (DIRECT SUNLIGHT) EXPOSURE FOR A MINIMUM TIME PERIOD OF FIVE YEARS WITHOUT EXHIBITING EVIDENCE OF DETERIORATION. THE LENSES SHALL WITHSTAND A 3/2 FOOT (1.0 METER) DROP TEST AND SHALL BE A MINIMUM OF 1/8 INCH (3 MM) THICK, AND FREE OF BUBBLES AND IMPERFECTIONS. THE LENSES SHALL BE SMOOTH ON THE OUTSIDE, WITH NO EXTERNAL FACETS, TO PREVENT DIRT AND DEBRIS BUILD-UP. IF LENSES ARE TINTED, THEY SHALL MATCH THE WAVELENGTH (CHROMATICITY) OF THE LED.

THE SIGN UNIT SHALL OPERATE ON A SOLAR PANEL PROVIDED WITH THE SOLAR COLLECTOR AND BATTERIES AFTER BATTERIES ARE FULLY CHARGED PRIOR TO INSTALLATION. THE LINE VOLTAGE FOR INITIAL CHARGING OF THE BATTERIES SHALL BE 120-VOLT AC 60 HERTZ WITH PLUS AND MINUS 10% VOLTAGE FLUCTUATION. THE INDIVIDUAL LED LIGHT SOURCES SHALL BE WIRED SO THAT A CATASTROPHIC FAILURE OF ONE LED LIGHT SOURCE WILL NOT RESULT IN THE LOSS OF MORE THAN ONE LED LIGHT SOURCE IN THE SIGN UNIT.

THE LED UNITS AND ASSOCIATED ON-BOARD CIRCUITRY SHALL CONFORM TO THE REQUIREMENTS IN FEDERAL COMMUNICATIONS COMMISSION (FCC) TITLE 47, SUB PART B, SECTION 15 REGULATIONS CONCERNING THE EMISSION OF ELECTRONIC NOISE. THE LEDS SHALL BE RATED FOR USE IN THE AMBIENT OPERATING TEMPERATURE RANGE OF -40 DEGREES F TO +166 DEGREES F (-40 DEGREES C TO +74 DEGREES C). THE LED WIRING SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURES AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS. THE LED UNITS SHALL HAVE A MINIMUM OUTPUT OF 1200 MILLIAMPS.

ALL LED LAMP UNITS MUST BE NEW AND OF THE LATEST MODEL CURRENTLY IN PRODUCTION. EQUIPMENT NO LONGER BEING MANUFACTURED WILL NOT BE ACCEPTED, EVEN IF IT MEETS THESE SPECIFICATIONS.

ONE SCHEMATIC DIAGRAM SHALL BE PROVIDED FOR THE SIGN UNIT ALONG WITH ALL NECESSARY INSTALLATION INSTRUCTIONS. THE LED MANUFACTURER'S NAME, BRAND AND MODEL NUMBER SHALL BE PROVIDED.

THE MANUFACTURER SHALL PROVIDE A WRITTEN WARRANTY AGAINST DEFECTS IN MATERIALS, WORKMANSHIP AND LUMINOUS INTENSITY FOR THE LED-ENHANCED SIGN UNIT FOR A PERIOD OF ONE YEAR AFTER INSTALLATION. THE SIGN UNIT SHALL BE REPAIRED OR REPLACED BY THE MANUFACTURER IF IT EXHIBITS A FAILURE DUE TO WORKMANSHIP OR MATERIAL DEFECTS WITHIN ONE YEAR OF FIELD OPERATION. A REPLACEMENT LED ENHANCED SIGN UNIT SHALL BE PROVIDED WITHIN 10 DAYS AFTER RECEIPT OF FAILED UNIT AT NO COST TO THE STATE, EXCEPT THE COST OF SHIPPING THE FAILED UNIT.

PAYMENT WILL BE AT CONTRACT UNIT PER EACH ITEM 630 SIGNING MISC.: LED ENHANCED W2-6 48"x48" SIGN ASSEMBLY

GENERAL ELECTRICAL REQUIREMENTS FOR SOLAR-POWERED DEVICES

RUN REQUIREMENTS OF THIS DEVICE ARE 24 HOURS PER DAY, 7 DAYS PER WEEK.

UTILIZE ENVIRONMENTALLY-SEALED, HIGH-EFFICIENCY LED LIGHT SOURCES FOR THIS SOLAR-POWERED APPLICATION.

HOUSE THE SOLAR POWER SUPPLY CONTROLLER AND BATTERY IN ONE OR TWO STAINLESS STEEL OR ALUMINUM ENCLOSURES WITH A MINIMUM NEMA 3 OR 3X RATING.

IF THE EXTERIOR SIZE OF THE ENCLOSURE NECESSARY TO MEET THE REQUIREMENTS BELOW IS LESS THAN 1000 CUBIC INCHES, A SINGLE POLYMER ENCLOSURE RATED NEMA 4 AND LISTED AS SUNLIGHT-RESISTANT MAY BE INSTALLED, WITH APPROVAL OF THE ENGINEER.

SEAL ENCLOSURE CONDUIT ENTRIES TO PREVENT INSECT AND/OR RODENT ENTRY. PROVIDE METAL ENCLOSURES WITH AN EXTERIOR OF BARE OR POWDER-COATED ALUMINUM, OR STAINLESS STEEL.

PROVIDE A LOCKING ENCLOSURE USING EITHER AN INTEGRATED LOCKING MECHANISM OR A PADLOCK PER C&MS 631.06.

SMALL ENCLOSURES OF 300 CUBIC INCHES OR LESS (EXTERIOR) MAY BE PROVIDED WITH SECURITY FASTENERS IN LIEU OF A LOCKING MECHANISM OR PADLOCK.

SEPARATE THE CONTROL ELECTRONICS AND BATTERY, IF CONTAINED WITHIN A SINGLE ENCLOSURE, TO PREVENT DAMAGE TO THE CONTROL ELECTRONICS IF THE BATTERY ENVELOPE IS COMPROMISED.

PROVIDE SEALED GEL-CELL OR AGM (ABSORBED GLASS MAT) LEAD-ACID BATTERIES FOR ALL INSTALLATIONS WITH INSTANTANEOUS LOAD REQUIREMENTS OF 4 WATTS OR ABOVE, REGARDLESS OF DUTY CYCLE.

FOR INSTALLATIONS WITH INSTANTANEOUS LOAD REQUIREMENTS OF LESS THAN 4 WATTS, RECHARGEABLE NICD, LI-ION, OR NI-MH BATTERIES MAY BE USED INSTEAD OF AGM OR GEL-CELL, IF APPROVED BY THE ENGINEER.

PROVIDE SIGNED COPIES FROM THE SOLAR PANEL AND/OR CONTROLLER MANUFACTURER OF ALL CALCULATIONS USED TO SIZE THE SOLAR PANEL AND BATTERIES.

INCLUDE IN THESE CALCULATIONS THE INSOLATION VALUE USED AND ITS REFERENCE SOURCE, THE SOLAR PANEL EFFICIENCY, CHARGER/CONTROLLER EFFICIENCY, INVERTER EFFICIENCY, PROPOSED LED LAMP AND/OR EQUIPMENT LOAD, AND A FIGURE REPRESENTING ANTICIPATED MISCELLANEOUS LOSSES.

SHOW CALCULATIONS DOCUMENTING A RESERVE CAPACITY OF TWO WEEKS OPERATION UNDER CONTINUOUS WORST-CASE (MINIMUM) INSOLATION FIGURES (USUALLY DECEMBER) FOR THE PROPOSED GEOGRAPHIC LOCATION, USING A PANEL ELEVATION ANGLE APPROPRIATE TO THE SITE, AT A SUSTAINED TEMPERATURE OF 25 DEGREES FAHRENHEIT (-4 DEGREES CELSIUS).

DELIVER A COPY OF THE CALCULATIONS TO THE ENGINEER AND ANOTHER COPY TO THE OFFICE OF ROADWAY ENGINEERING FOR APPROVAL.

PROVIDE DOCUMENTATION SHOWING THAT THE SOLAR PANEL MANUFACTURER TESTED THE PANEL ACCORDING TO IEC61215 OR EQUIVALENT APPROVED STANDARD.

PROVIDE DOCUMENTATION SHOWING THAT SOLAR PANEL MOUNTING IS RATED FOR 90 MPH DESIGN WIND AND DESIGNED TO RESIST VANDALISM.

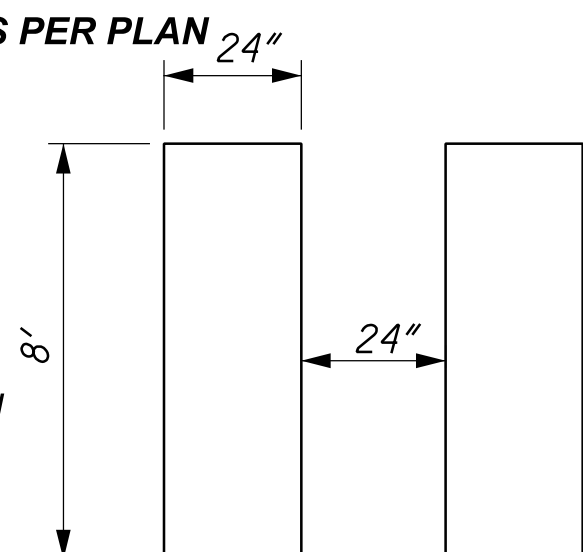
ENSURE NEC GROUNDING AND BONDING REQUIREMENTS ARE MET IF VOLTAGES OVER 50V AC OR DC ARE PRESENT.

PROVIDE A TIMER (IF REQUIRED) THAT SATISFIES THE REQUIREMENTS OF C&MS 731.10 AND IS LISTED ON THE ODOT QUALIFIED PRODUCTS LIST.

PROVIDE COMPLETE PHOTO-CONTROLLER SPECIFICATIONS, INCLUDING ON/OFF PHOTOMETRIC SWITCH POINTS (TYPICALLY GIVEN IN FOOT-CANDLES), IF A PHOTO-CONTROLLER IS UTILIZED.

ITEM 644, CROSSWALK LINE, 24", AS PER PLAN

24" WHITE LONGITUDINAL LINES SHALL BE PLACED PARALLEL TO TRAFFIC FLOW AS SHOWN IN FOLLOWING DETAIL. THE MARKING DESIGN SHOULD AVOID THE WHEEL PATHS. PAYMENT SHALL BE MADE IN FEET BY LENGTH OF EACH CROSS-WALK LINE PLACED.



DESIGN AGENCY



DESIGNER
GCB

REVIEWER
DTC 02/08/23

PROJECT ID
110859

SHEET TOTAL
P.217 | 290

LUMINAIRE, DECORATIVE, AS PER PLAN, LED, SAG GLASS, 3000K, IES III, BLACK (ALTERNATE 1)

THIS ITEM CONSISTS OF SUPPLYING AND INSTALLING A DECORATIVE SAG TEARDROP-STYLE LED LUMINAIRE FOR ROADWAY ILLUMINATION.

HL-10.11 SHOWS A TEARDROP-STYLE LED LUMINAIRE SCHEMATICALLY.

THIS ITEM CONSISTS OF A BASE FILTER, GLASS (NOT ACRYLIC) SAG TYPE GLOBE AND A BASIC HOUSING WITH NO DECORATIVE FEATURES SUCH AS FINIAL, CROWN, BAND OR RIBS. PROVIDE A LUMINAIRE WITH A B-U-G UP-LIGHTING RATING OF U4 OR LESS.

PROVIDE A LUMINAIRE COMPATIBLE WITH THE LIGHTING BRANCH CIRCUIT SHOWN IN THE PLANS.

ASSURE THE LUMINAIRE CAN MOUNT A PHOTOCELL OR WIRELESS CONTROL THAT USES A NEMA STANDARD PHOTOCELL RECEPTACLE.

PROVIDE A LUMINAIRE WITH 3G VIBRATION RATING.

PROTECT EACH LUMINAIRE USING A SURGE PROTECTIVE DEVICE (SPD) CONFORMING TO ODOT SUPPLEMENTAL SPECIFICATION 913.

ASSURE THE LUMINAIRE HAS A NOMINAL COLOR TEMPERATURE (CCT) OF 3000K.

PROVIDE A LUMINAIRE WITH FACTORY-APPLIED BLACK FINISH MEETING SUPPLEMENTAL SPECIFICATION 916.

THE LUMINAIRE SHALL BE ONE OF THE FOLLOWING, OR AN APPROVED EQUAL:

1. HOLOPHANE ESPLANADE LED2 #ESL3-P35S-30K-AX-BK-SG-3-P
2. KING CORONET #K804-P4SA-III-120-(SSL)-8060-KPL21-3K-BK
3. STERNBERG LIBERTYVILLE 1A-1914LED-3L-30-T3-MDL07-SG-HSHN-BKT
4. SPRING CITY COLUMBIA ALMCLU-LE200-EVX-2G2-30-CR3-YSLF-LACLB-FCR-CU

LIGHT POLE, DECORATIVE, AS PER PLAN, AT08B35, WITH AESTHETIC FEATURES, BLACK FINISH

THIS ITEM CONSISTS OF SUPPLYING AND INSTALLING A STANDARD LIGHT POLE PER CM&S 625 AND SCD HL-10.11, WITH ADDITIONAL BASELINE AESTHETIC FEATURES.

PROVIDE A POLE WITH A DOUBLE SWEEP BRACKET ARM WITH AN 8' SPAN, SPIKE FINIAL AND TRIPLE SCROLL BRACE, SIMILAR TO AS SHOWN ON SHEET 2 OF SCD HL-10.11.

PROVIDE A POLE, TRANSFORMER BASE, ARM, FINIAL AND SCROLL BRACE WITH FACTORY-APPLIED BLACK FINISH MEETING SUPPLEMENTAL SPECIFICATION 916.

LUMINAIRE, DECORATIVE, AS PER PLAN, LED, TEARDROP GLASS, 3000K, IES III, BLACK, W/ AESTHETICS (ALTERNATE 2)

THIS ITEM CONSISTS OF SUPPLYING AND INSTALLING A DECORATIVE TEARDROP-STYLE LED LUMINAIRE PER THE REQUIREMENTS IN THE ALTERNATE 1 GENERAL NOTE, MODIFIED TO INCLUDE THE ADDITIONAL AESTHETIC ITEMS AS DETAILED BELOW.

PROVIDE A LUMINAIRE WITH GLASS (NOT ACRYLIC) TEARDROP TYPE GLOBE, SPIKE FINIAL AND 4" DEEP SHADE.

THE LUMINAIRE SHALL BE ONE OF THE FOLLOWING, OR AN APPROVED EQUAL:

1. HOLOPHANE ESPLANADE LED2 #ESL3-P35S-30K-AX-BK-TG-3-P-GWDF-SS
2. STERNBERG LIBERTYVILLE 1A-1914LED-3L-30-T3-MDL07-G-HSHS-RLM41-BKT
3. SPRING CITY COLUMBIA ALMCLU-M10-LE200-EVX-2G2-30-CR3-GR14-LACLB-FED-CU

625, POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY OHIO EDISON
 ADDRESS 2508 W. PERKINS AVE.
 SANDUSKY, OH 44870
 PHONE # (419) 627-6887
 CONTACT NAME JEFFREY SCHMID

THE ENGINEER SHALL ENSURE THAT THE POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY, THE OHIO DEPARTMENT OF TRANSPORTATION.

A COMBINED POWER SERVICE SHALL BE PROVIDED TO SERVE THE PROPOSED LIGHTING AND THE EXISTING CCTV ITS CAMERA LOCATED ADJACENT TO SR-2.

THE CCTV RELATED POWER SERVICE SHALL BE MARKED WITH "ITS". A SEPARATE DISCONNECT SWITCH SHALL BE INSTALLED AND SHALL BE FUSIBLE, RATED FOR 60 AMPS WITH NEMA 4X ENCLOSURE, AND FUSED AT 30 AMPS. THIS SERVICE SHALL PROVIDE 120 VOLTS. THE SERVICE SHALL BYPASS THE PHOTOCELL OF THE HIGHWAY LIGHTING CONTROL CENTER SO THE CCTV SITE WILL HAVE POWER 24/7.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYPED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

CONTROL CENTER DATA

CONTROL CENTER DESIGNATION	POWER SERVICE VOLTAGE	CONTROL CENTER TOTAL CONNECTED LOAD (kVA)	SERVICE ENTRANCE CONDUCTOR SIZE (AWG)	ENCLOSURE RATING (AMPS)	BRANCH CIRCUIT NAME	BRANCH CIRCUIT VOLTAGE	BRANCH CIRCUIT LOAD (AMPS)	BRANCH CIRCUIT BREAKER SIZE (AMPS)	BRANCH CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
L-1	120 / 240 3-WIRE	2.0	#4	60	A	240	8.5	20	#4	ODOT

DESIGN AGENCY



DESIGNER

GCB

REVIEWER

DTC 02/08/23

PROJECT ID

110859

SHEET TOTAL

P.260 290