RAMP D (CD ROAD) STA. 237+44.48

LOCATION MAP LATITUDE: 40 °15'21" LONGITUDE: 82 °55'41"



PORTION TO BE IMPROVED ._____ INTERSTATE HIGHWAY ______ FEDERAL ROUTES ._____

COUNTY & TOWNSHIP ROADS ______

ADA DESIGN WAIVERS: NONE REQUIRED

UNDERGROUND UTILITIES

Contact Two Working Days

Before You Dig

Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764

(Non members must be called directly)

PLAN PREPARED BY:

ms consultants, inc.

PHONE (614) 898-7100

FOR DESIGN DESIGNATIONS, SEE SHEET 2

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DEL-71-8.91 (PHASE A) PART 1

BERKSHIRE TOWNSHIP DELAWARE COUNTY FOR PART 2, SEE DEL-71-8.91 (PHASE A)

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WILSON ROAD CROSS SECTIONS

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PARTS 1 AND 2

ENGINEER'S SEAL:			STA	NDARD	CONSTR	RUCTION	DRAWING	GS			SUPPLEN SPECIFIC		SPECIAL PROVISIONS
ROADWAY	BP-2.1	1/21/22	CB-2-2A, 2B, 2C	7/19/24	ITS-12.10	7/15/22	MT-95.30	7/19/19	TC-41.10	7/19/13	800-2023	7/19/24	4Q4 ⁾ RERMIT
MINIMUM COLUMN	BP-2.2	1/15/21	CB-3	7/19/24	ITS-14.10	7/19/24	MT-95.45	7/21/23	TC-41.20	10/18/13	804	7/19/24	01/24/2025
Minimum OF Minimum	BP-3.1	1/19/24	CB-3A	7/19/24	ITS-14.11	7/19/24	MT-98.21	7/21/23	TC-41.30	4/21/23	807	1/21/22	
Sind Control of the C	BP-5.1	7/15/22	CB-8	7/19/24	ITS-14.50	7/19/24	MT-98.28	1/17/20	TC-41.50	10/18/13	808	7/19/24	
**JOSEPH E	BP-7.1	1/19/24	I-2-6	7/19/24	ITS-14.60	1/19/24	MT-98.29	1/17/20	TC-42.10	10/18/13	809	7/19/24	
SULLIVAN E E E - 51504			I-3B, 3B1	7/19/24	ITS-15.11	7/19/24	MT-98.30	7/16/21	TC-42.20	10/18/13	813	7/21/23	
THE THE PARTY OF T	F-2.1	7/20/18	I-3C, 3C1	7/19/24	ITS-18.00	7/16/21	MT-99.20	4/19/19	TC-51.11	1/15/16	821	4/20/12	
MAL MANAGER OF THE STATE OF THE	F-3.1	7/19/13			ITS-50.10	1/20/23	MT-99.30	1/17/20	TC-52.10	10/18/13	825	7/19/24	
William Manual M	F-3.3	7/19/13	MH-3	7/19/24	ITS-50.11	7/19/24	MT-99.50	7/21/23	TC-52.20	1/15/21	832	7/19/24	
	F-3.4	7/19/13			HL-10.11	7/21/23	MT-101.70	7/19/24	TC-61.10	4/21/23	836	1/19/24	
	MGS-1.1	7/16/21	DM-1.1	7/17/20	HL-10.12	7/21/23	MT-101.75	7/21/23	TC-61.30	7/19/24	840	7/19/24	
	MGS-2.1	1/19/18	DM-1.2	7/16/21	HL-10.13	1/20/23	MT-101.90	7/17/20	TC-65.10	1/17/14	850	7/21/23	
ENGINEER'S SEAL:	MGS-3.1	1/19/18	DM-4.2	7/20/12	HL-10.31	7/15/22	MT-102.10	7/21/23	TC-65.11	1/19/24	872	1/21/22	
STRUCTURES	MGS-4.2	7/19/13			HL-20.11	7/21/23	MT-102.20	4/19/19	TC-71.10	4/21/23	902	7/19/19	
	MGS-5.3	7/15/16	AS-1-15	1/20/23	HL-20.21	1/15/21	MT-102.30	10/16/15	TC-72.20	7/21/23	904	7/15/22	
Minimum OF Manager			AS-2-15	7/21/23	HL-30.11	7/21/23	MT-103.10	1/21/22	TC-73.20	7/19/24	905	4/17/20	
	RM-1.1	1/20/23	BR-2-15	7/19/24	HL-30.21	4/17/20	MT-104.10	1/19/24	TC-74.10	7/21/23	908	10/20/17	
SEAN Î★Î JENQ Î	RM-4.3	1/21/22	PSID-1-13	7/19/24	HL-30.22	1/15/21	MT-105.10	1/17/20			909	7/19/24	
E-58874	RM-4.4	7/21/23	SBR-1-20		HL-30.31	7/19/24					913	4/16/21	
THE THE COURT OF THE PARTY OF T	RM-4.5	7/21/17	SICD-1-21	1/21/22	HL-30.41	1/21/22	TC-12.31	4/15/22			921	7/19/24	
Million ONAL	RM-4.6	7/19/13	SICD-2-14	, ,	HL-40.10	, ,	TC-15.116	1/19/24			992	4/18/14	
"The state of the	RM-5.2	7/21/23	VPF-1-90	7/21/23	HL-50.21	7/15/22		7/16/21					
					HL-60.11	7/21/17		1/20/23					
	HW-2.1	7/15/22	ITS-10.10	7/19/24	HL-60.21	7/20/18	TC-21.50	4/17/20					
	HW-2.2	7/20/18	ITS-10.11	7/19/24	HL-60.31	7/19/24	TC-22.20	1/17/14					

P.309-P.315

FEDERAL PROJECT NUMBER

E190 (125)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

CONSTRUCT A NEW PARTIAL DIAMOND INTERCHANGE ON 1-71 AT SUNBURY PARKWAY. THIS WILL INCLUDE AN ENTRANCE RAMP FROM SUNBURY PARKWAY TO I-71 SB AND AN EXIT RAMP FROM I-71 NB TO SUNBURY PARKWAY. BUILD A I-71 NB CD ROAD BETWEEN SUNBURY PARKWAY AND SR 36/37 COMBINING THE EXITING TRAFFIC TO SUNBURY WITH THE EXITING TRAFFIC TO SR 36/37. CONNECT SUNBURY PARKWAY TO WILSON RD. THE PROJECT WILL ALSO INCLUDE THE SUNBURY PARKWAY TWO SPAN BRIDGE OVER 1-71, THE RECONSTRUCTION OF STORM SEWERS AND CULVERTS, AND THE RELOCATION OF SIGNAGE AND LIGHTING. THE FULL PARCLO INTERCHANGE AND THE EXTENSION OF SUNBURY PARKWAY WILL BE BUILT IN FUTURE PHASES.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 53.26 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 42.15 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: 95.41 ACRES

LIMITED ACCESS

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

^{ED)} 2023 SPECIFICATIONS

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

TRAFFIC REROUTED FOR BRIEF TIME PERIODS

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS P.35 & P.47, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

ns consultants, inc

ACW

REVIEWER

TAZ 05/26/23

106959

P.1 663

ESIGNER

ROJECT ID

ESIGN AGENCY

Anthony C. Turowski, P.E. District 06 Deputy Director

Pamela Boratyn

Director, Department of Transportation

LAST REVISED: PIRA 04/10/2025

ITEM 606 - CABLE GUARDRAIL

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY ONE OF THE HIGH TENSION FOUR CABLE GUARDRAIL SYSTEMS AS LISTED ON THE OFFICE OF ROADWAY ENGINEERING'S WEB PAGE. PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, CABLE BARRIER WITH CONCRETE LINE POST FOUNDATION, AND ITEM 606 CABLE BARRIER, ANCHOR ASSEMBLY AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL HIGH TENSION CABLE GUARDRAIL SYSTEM NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER. THE LENGTH OF THE TENSIONED CABLE NECESSARY TO INSTALL A FUNCTIONAL ANCHOR SYSTEM SHALL BE INCLUDED IN ITEM 606. CABLE BARRIER WITH CONCRETE LINE POST FOUNDATION.

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

SYSTEMS SHALL HAVE A MAXIMUM DEFLECTION OF 8 FEET AND THE MAXIMUM LONGITUDINAL DISTANCE BETWEEN POSTS SHALL BE 15 FEET.

INSTALLATION WILL BE A FOUR CABLE HIGH TENSION SYSTEM INSTALLED IN SOCKETED POSTS FOUNDATION WITH A FOUR FOOT WIDE "NO MOW STRIP".

DELINEATE THE CABLE BARRIER USING TYPE 6 BARRIER REFLECTORS PER ITEM 626 OR USING FLEXIBLE POSTS PER ITEM 620 AS CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.

ANCHOR TERMINAL STRUTS SHALL BE COVERED COMPLETELY ON BOTH SIDES WITH YELLOW TYPE J, ASTM D 4956 TYPE XI REFLECTIVE SHEETING, PER CMS 730.193.

TRANSITIONS TO W-BEAM GUARDRAIL ARE NOT ALLOWED.

REFER TO MANUFACTURER FOR MAXIMUM OFFSET FROM BREAK

TORPEDO OR BULLET SPLICES ARE NOT ALLOWED. ALL CABLE SPLICES SHALL BE A SWAGED OR OPEN BODY DESIGN THAT ALLOWS FOR ANNUAL INSPECTION BETWEEN THE WEDGE AND STRANDS OF CABLE.

POSTS ARE SET IN SOCKETED CONCRETE FOUNDATIONS AND SHALL NOT BE PERMANENTLY INSTALLED UNTIL THEIR RESPECTIVE RUNS OF TENSIONED CABLE GUARDRAIL ARE READY FOR FINAL CONNECTION TO THE END TERMINAL ASSEMBLY. THE CONTRACTOR SHALL REPLACE ANY POSTS DAMAGED DURING INSTALLATION AS DETERMINED BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

FIELD DRAINS

IF FIELD DRAINS ARE ENCOUNTERED DURING CONSTRUCTION, THE FOLLOWING "FARM DRAINS" NOTE SHALL APPLY. IF THE FIELD DRAIN WILL NO LONGER BE UTILIZED DUE TO THE FILLING AND PLUGGING OF THE EXISTING 15" FIELD DRAIN UNDER I-71 AND HAS NO ADJOIN CONNECTIONS, REMOVE THE EXISTING FIELD DRAIN FROM THE LIMITS OF THE PROPOSED ROADWAY EMBANKMENT TO A POINT JUST OUTSIDE OF THE GRADING LIMITS. AT THIS POINT, INSTALL A CATCH BASIN 2-2B, WHICH WILL SERVE AS A CLEAN OUT. TYING INTO THE EXISTING FIELD DRAIN. THE CASTING SHALL BE INSTALLED TO MATCH EXISTING GRADE ELEVATION.

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

ITEM 202, PIPE REMOVED 24" AND UNDER, 300 FT ITEM 611, 15" CONDUIT TYPE E, 300 FT ITEM 611, CATCH BASIN NO 2-2B, 1 EA

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 F - 200 FT.

611 - 4" CONDUIT, TYPE E - 100 FT.

611 - 4" CONDUIT, TYPE F - 200 FT.

601 ROCK CHANNEL PROTECTION TYPE C WITH FILTER - 4 CU. YD.

ITEM 611 - CONDUIT BORED OR JACKED

WHERE IT IS SPECIFIED THAT A CONDUIT BE INSTALLED BY THE METHOD OF BORING OR JACKING, NO TRENCH EXCAVATION SHALL BE CLOSER THAN 5 FEET TO THE (EDGE OF PAVEMENT) (NEAREST RAIL). PROVIDE A STEEL CASING PIPE CONFORMING TO 748.06. JOINTS WITH A CIRCUMFERENCIAL FULLY PENETRATING B-U4B WELD THAT IS PERFORMED BY A CERTIFIED WELDER FOR WELDING CODE AMERICAN WELDING SOCIETY (AWS) D1.1 OR MACHINED INTERLOCKING JOINTS ARE PERMITTED. THE INSTALLED CASING PIPE IS THE STORM WATER CONVEYANCE CARRIER UNLESS OTHERWISE SPECIFIED IN THE PLANS. HYDROSTATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE.

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. DISPOSE OF ALL MATERIAL PER 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

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

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

ITEM SPECIAL, PIPE CLEANOUT, 24" AND UNDER 200 FT. 100 FT. ITEM SPECIAL, PIPE CLEANOUT, 27" TO 48"

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.

SEEDING AND MULCHING

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

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
659, SOIL ANALYSIS TEST	2 EACH { /4
659, TOPSOIL	11697 CU. YD.} —
659, SEEDING AND MULCHING , CLASS 1	15401 SQ. YD.}
659, SEEDING AND MULCHING, CLASS 3B	89976 SQ. YD.
659, REPAIR SEEDING AND MULCHING	5269 SQ. YD. 👌
659, INTER-SEEDING	5269 SQ. YD.
659, COMMERCIAL FERTILIZER	16 TON ⟨
<i>← 659, LIME</i>	22 ACRES {
659, WATER	600 M. GAL. }
<i>{</i> 659, MOWING	0.24 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.

#### **CLEARING AND GRUBBING**

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	214	4	218
30"	9	0	9
48"	1	0	1

# POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

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ITEM 203 – BORROW, AS PER PLAN

ODOT HAS STOCKPILED 127,000 C.Y. OF BORROW FROM THE INTEL SITE AT THE ABANDONED WEIGH STATION SPITE TO SUPPLEMENT THE EMBANKMENT NEEDS FOR THE PROJECT. THIS BORROW SHALL BE USED FOR THE EMBANKMENT ON THIS PROJECT. THE ABANDONED WEIGH STATION IS WITHIN ODOT'S RIGHT-OF-WAY, BUT OUTSIDE OF THE PROJECT'S CONSTRUCTION LIMITS AS SHOWN ON THE PROJECT SITE PLAN SHEET P.119, AND PLAN & PROFILE SHEETS P.192, P.194 & P133. THE USE OF ITEM 203 - BORROW, AS PER PLAN IS REFLECTED IN THE EARTHWORK REPORT. ITEM 203 EMBANKMENT TOTAL C.Y. IS REDUCED BY THE BORROW'S TOTAL C.Y.

THE AREA OF THE ABANDONED WEIGH STATION WHERE THE BORROW IS LOCATED WILL BE CONSIDERED PART OF THE CONTRACTORS EARTH DISTURBED AREA. CLEANUP OF THE BORROW AREA SHALL BE ACCORDING *TO C&MS 104.04.*

THE WASTE AND BORROW AREAS SHOWN IN THE PLANS HAVE BEEN PREVIOUSLY INVESTIGATED FOR ECOLOGICAL RESOURCES. IT IS NOT NECESSARY TO HIRE AN ECOLOGICAL ENVIRONMENTAL CONSULTANT AS PER CONSTRUCTION AND MATERIAL SPECIFICATION 105.16 TO INVESTIGATE THESE AREAS. ALL OTHER REQUIREMENTS OF C&MS 105.16 APPLY.

| NO. | RFI | DESCRIPTION | REV. BY | DATE |
|------|-----|-----------------------|---------|----------|
| P1R4 | | REVISE EARTHWORK QTYS | CLH | 04/21/25 |
| | | | | |

ESIGN AGENCY

ns consultants, ind

ESIGNER

ACW REVIEWER TAZ 08/01/23 ROJECT ID

106959 P.22 663

ITEM 614, REPLACEMENT DRUM

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

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

AN ESTIMATED QUANTITY OF 20 EACH HAS BEEN PROVIDED *IN THE GENERAL SUMMARY.*

WORK ZONE SPEED ZONES (WZSZS)

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

| WZSZ REVISION
NUMBER | COUNTY-ROUTE-SECTION | DIRECTION |
|-------------------------|------------------------------|-----------|
| WZ-35806 | DEL-71-7.219 - DEL-71-9.807 | NB |
| WZ-35806 | DEL-71-8.252 - DEL-71-10.829 | SB |

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

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

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

WORK ZONE SPEED ZONES (WZSZS), CONTINUED

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

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

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

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

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

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

| | | OSITIVE
ECTION | | POSITIVE
ECTION |
|-------------|---------|-------------------|---------|--------------------|
| ORIGINAL | WORKERS | WORKERS | WORKERS | WORKERS |
| POSTED | PRESENT | NOT | PRESENT | NOT |
| SPEED LIMIT | | PRESENT | | PRESENT |
| 70 | 60 | 65 | 55 | 65 |
| 65 | 55 | 60 | 50 | 60 |
| 60 | 55 | 60 | 50 | 60 |
| 55 | 50 | 55 | 45 | 55 |

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

ITEM 808, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY *72 SIGN MNTHS*

ASSUMING 5 DSL SIGN ASSEMBLIES FOR 6 MONTHS AND 3 DSL SIGN ASSEMBLIES FOR 14 MONTHS

DESIGNATED LOCAL DETOUR ROUTES

THE OFFICIAL SIGNED DETOUR ROUTES HAVE BEEN DETERMINED TO BE "DESIGNATED LOCAL DETOUR ROUTES." THESE ROUTES ARE SHOWN ON SHEETS P.35 AND P.47. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THESE ROUTES IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTES SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHAN AND AS DETERMINED BY THE ENGINEER.

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

| ITEM 301, ASPHALT CONCRETE BASE, PG 64-22 | 460 CU. YD. |
|--|-------------|
| ITEM 304, AGGREGATE BASE | 276 CU. YD. |
| ITEM 441, ASPHALT CONCRETE SURFACE COURSE, | |
| TYPE 1, (448), PG 64-22 | 69 CU. YD. |
| ITEM 407, TACK COAT | 149 GAL. |
| ITEM 614, ASPHALT CONCRETE FOR | |
| MAINTAINING TRAFFIC | 667 CU. YD. |
| ITEM 616, WATER | 32 M. GAL. |
| ITEM 617, COMPACTED AGGREGATE | 250 CU. YD. |
| ITEM 617, WATER | 10 M. GAL. |
| ITEM 642, CENTER LINE | 1 MILE |

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

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

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

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

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

<u>|REV.BY| DATE</u> KJF 04/15/25

REVISE NOTE

KJF | 04/25/25

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A), CONTINUED

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

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

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 12 EACH

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

EXCAVATION FOR MAINTAINING TRAFFIC 692 CU. YD. EMBANKMENT FOR MAINTAINING TRAFFIC 64 CU. YD.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR UNDERCUTS UNDER TEMPORARY PAVEMENT AS DIRECTED BY THE ENGINEER.

ITEM 204, EXCAVATION OF SUBGRADE

10 CU. YD.

EARTHWORK FOR MAINTAINING TRAFFIC IS INCIDENTAL TO THE LUMP SUM PRICE FOR ITEM 615, ROADS FOR MAINTAINING TRAFFIC.

REMOVAL OF CABLE BARRIER

DURING PHASE 2A OF CONSTRUCTION THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE BARRIER ALONG THE I-71 NORTHBOUND INSIDE SHOULDER WHERE IT CONFLICTS WITH THE PORTABLE BARRIER FROM APPROXIMATELY STA. 689+00 TO STA. 701+22 AS SHOWN ON SHEETS P.82 - P.83. THE CONTRACTOR SHALL PLACE A CABLE BARRIER ANCHOR ASSEMBLY AT THE NORTHERN END OF THE EXISTING CABLE BARRIER TO REMAIN. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE THE TEMPORARY CABLE BARRIER ANCHOR ASSEMBLY. THE PERMANENT CABLE BARRIER SHALL BE INSTALLED PER THE ROADWAY PLANS, PAYMENT FOR THE PERMANENT CABLE BARRIER IS INCLUDED IN THE ROADWAY PLANS.

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR INFORMATIONAL PURPOSES:

CABLE BARRIER REMOVED CABLE BARRIER ANCHOR ASSEMBLY REMOVAL OF CABLE BARRIER ANCHOR ASSEMBLY 1,222 FT 1 EACH 1 EACH

PAYMENT FOR THE CABLE BARRIER REMOVAL AND INSTALLATION AND REMOVAL OF THE CABLE BARRIER ANCHOR ASSEMBLY SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ESIGN AGENCY ms

ESIGNER

ns consultants, inc

JML REVIEWER DRB 06/28/23 ROJECT ID

P.25 663

106959

| | | | | | SHEET | NUM. | 4 | | | 4 | PA | RT. |
 ITEM | ITEM | GRAND | UNIT | DESCRIPTION | SEE
SHEET | |
|------|----------|---------|--|--|--|------|--------------|--|---|--|--|--|--|--|---|--|---|-----------------------------|---|
| P.21 | P.22 | P.108 | P.109 | P.110 | P.113 | | P.466 | OFFICE | P.25 | | 01/NHS/01 | 02/NHS/08 | | EXT | TOTAL | ONTI | DLSCRIPTION | NO. | |
| | | | | | | | | | | ; | | | | | | | ROADWAY | | |
| LS | | | | | | | | | | } | LS | | 201 | 11000 | LS | | CLEARING AND GRUBBING | P.21/P.22 | 2 |
| | | 10 | | | <u> </u> | | | | | i | 10 | | 202 | 20010 | 10 | | HEADWALL REMOVED | , | 7 |
| | | | | | 1—————————————————————————————————————— | | | | | } | 400 | + | 202 | 23000 | | | | _ | |
| - | | 400 | | | √ | | | | • | } | | + | | | 400 | | PAVEMENT REMOVED | + | |
| | | 259 | | | | | | | • · · · · · · · · · · · · · · · · · · · | | 259 | _ | 202 | 30000 | 259 | | WALK REMOVED | | _ |
| | | 59 | | | | | | ' | | } | 59 | | 202 | 32000 | 59 | FT | CURB REMOVED | | |
| | | | | | <u> </u> | | | ′ | | | | | | | | | | | |
| | 300 | 166 | | | , | | | <u> </u> | | j | 466 | | 202 | 35100 | 466 | FT | PIPE REMOVED, 24" AND UNDER | | |
| | | 30 | | | | | | 1 | | } | 30 | | 202 | 35200 | 30 | FT | PIPE REMOVED, OVER 24" | | |
| | | 1,965 | | | | | | <u> </u> | | 1 | 1,965 | | 202 | 38000 | 1,965 | | GUARDRAIL REMOVED | | |
| | | 1,3 03 | | | / | | 1 | | | } | 1 | 1 | 202 | 42010 | 1 | | ANCHOR ASSEMBLY REMOVED, TYPE E | | |
| | | 020 | | | / | | | | • | | 020 | | | | 1 | | | | |
| | | 839 | | | | | | ′ | <u>}</u> | } | 839 | | 202 | 48000 | 839 | FT | CABLE BARRIER REMOVED | | - |
| | | | | | | | | ′ | | | | | | | | | | | |
| | | 5 | | | <u> </u> | | | ' | | | 5 | | 202 | 58100 | 5 | EACH | CATCH BASIN REMOVED | | |
| | | 1 | | | | | | <u> </u> | | S | 1 | | 202 | 58200 | 1 | EACH | INLET REMOVED | | |
| | | 625 | | | 1 | | | 1 | | } | 625 | | SPECIAL | 20270000 | 625 | FT | FILL AND PLUG EXISTING CONDUIT, 15" | P.23 | |
| | 200 | | | | | | | 1 | | i | 200 | 1 | SPECIAL | 20270110 | 200 | | PIPE CLEANOUT, 24" AND UNDER | P.22 | |
| | 100 | | | | 1 - 1 | | | | | } | 100 | | SPECIAL | 20270120 | 100 | | PIPE CLEANOUT, 27" TO 48" | P.22 | |
| | 100 | | | | | | | | | } | 100 | 1 | JF LCIAL | 202/UIZU | 100 | 11 | III E CLEMNOUI, ZI TO TO | F.22 | \dashv |
| | <u>}</u> | 4 0 0 0 | | | | | | | | } | 1.25 | | 222 | 75000 | 4.000 | | | | \dashv |
| | | 4,909 | | | | | | ' | <u> </u> | } | 4,909 | | 202 | 75000 | 4,909 | | FENCE REMOVED | | 4 |
| | | 1 | | | | | | ' | | <u> </u> | 1 | | 202 | 98100 | 1 | EACH | REMOVAL MISC.: WOOD POLE | P.23 | _ |
| | | 1 | | | <u> </u> | | | <u> </u> | <u> </u> | <u> </u> | 1 | | 202 | 98100 | 1 | EACH | REMOVAL MISC.: POLE AND FOUNDATION | P.23 | |
| | | 14 | | | | | | 1 | · | { | 14 | | 202 | 98100 | 14 | EACH | REMOVAL MISC.: REFLECTOR POST | P.23 | 1 |
| | <u> </u> | 140 | | | 1 | | | | , | 1 | 140 | | 202 | 98400 | 140 | | REMOVAL MISC.: BUILDING PAD | P.23 | 7 |
| | <u> </u> | - · • | | | | | | | | } | 1 | 1 | | | | - | | 1 | 7 |
| | | | | | , | | | 58,456 | | ~~~~ | 58,456 | | 203 | 10000 | 58,456 | CY | EXCAVATION | | - |
| + | - | | | | | | 77 | 1 | <u>}</u> | } | | + | | | | <u> </u> | | | - |
| | | | | | | | | 166,843 | • | } | 166,843 | 1 | 203 | 20000 | 166,843 | | EMBANKMENT | | |
| | | | | | | | | 23,718 | | | 23,718 | | 203 | 20001 | 23,718 | | EMBANKMENT, AS PER PLAN | P.23 | _ |
| | | | | | | | | 127,000 | | | 127,000 | | 203 | 40001 | 127,000 | CY | BORROW, AS PER PLAN | P.22 | |
| | | | | | 1 | | <u> </u> | 21,122 | . | . | 21,122 | 1 | 204 | 10000 | 21,122 | SY | SUBGRADE COMPACTION | P.21 | |
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| | | | | | <i></i> | | | <u>'</u> | 10 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 10 | | 204 | 13000 | 10 | CY | EXCAVATION OF SUBGRADE | | |
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| | | | | | <i></i> | | | 34 | | ~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | $\sim\sim\sim\sim$ | | ~~~~~ | ***** | 1.21 | \dashv |
| | | | | | | | /4\ | 1,628 | | | 1,628 | | 206 | 10500 | 1,628 | | CEMENT | | _ |
| | | | | | | | ' | 77,405 | | | | | 206 | 11000 | 77,405 | $\overline{}$ | CURING COAT / | | 75 |
| | | | | | | | | 72,971 | | | 72,971 | <u> </u> | 206 | 15010 | 72,971 | SY | CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP | | |
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| | | | | | | | \wedge | 4,434 | | | 4,434 | | 206 | 15020 | 4,434 | SY | CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP | | |
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| | | | 4,953 | | | | 100 | | | | 5,053 | | 606 | 15050 | 5,053 | | GUARDRAIL, TYPE MGS | | |
| | | | 14 | | <i>,</i> | | 1 | 7 | | | 15 | | 606 | 26150 | 15 | EACH | ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016) | P.21 | コレル |
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| | | | 10 | | <i></i> | | | <u> </u> | | | 10 | | 606 | 26550 | 10 | EACH | ANCHOR ASSEMBLY, MGS TYPE T | | - , |
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| P.22 | P.24 | P.25 P | P.112 | P.113 | P.115 | P.116 | P.117 | P.111 | } | | | 01/NHS/01 | 02/NHS/08 | ITEM | EXT | TOTAL | UNIT | DESCRIPTION | NO. | |
| | | | | | | | | > | | | | | | | | | | EROSION CONTROL | | _ |
| | | | 11 | | | | | • | <u> </u> | | - | 11 | | 601 | 11000 | 11 | SY | RIPRAP, TYPE D | | \dashv |
| | | | 11 | ~~~~ | ~~~~ | ~~~~ | | | | | ******* | 11 | | 601 | 11001 | 11 | - ' | RIPRAP, TYPE D, AS PER PLAN | P.23 | コ |
| 4 | | | 84 | | ~~~~ | | | <u> </u> | | ļ | ļ | ~~88
~~~ | | 601
601 | 32200
32204 | 88 | | ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEVILLE FARRIC | | 4 |
| | 1,400 | 32 | 0 | | | | | | | | | 1,432 | | 616 | 10000 | 1,432 | | ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC WATER | | - |
| 2 | | | | | | | | | | | | 2 | | 659 | 00100 | 2 | EACH | SOIL ANALYSIS TEST | |] |
| (11,697) | 4 | | + | 1,774 | | | | \ | \ | - | 4 | 13,471 | ····· | 659 | 00300 | 13,471 | CY | TOPSOIL | | 4 |
| | <u> </u> | | | 181 | | | | | | | | 181 | | 659 | 00300 | 181 | | TOPSOIL, AS PER PLANSOIL AMENDMENT COMPOST | P.439 | |
| 15,401 | | | | 13,015 | | | | | , | | | 28,416 | ******* | 659 | 00500 | 28,416
89,976 | | SEEDING AND MULCHING, CLASS 1 | | |
| \$9,976 }
5,269 } | 4 | | | | | | | | | | /4 | 89,976
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REPAIR SEEDING AND MULCHING | | _ |
| | | | | | | | | | | | | | ······ | | | | | THE FAIR SELDING FAIR MICEOTHIAG | | |
| 5,269 | \wedge | | | | | | | | <u> </u> | | \wedge | 5,269 | | 659 | 15000 | 5,269 | SY | INTER-SEEDING | | 4 |
| $\frac{16}{22}$ | 77\ | | | | | | | • | <u> </u> | | 741 | 22 | ······ | 659 | 20000
31000 | 16)
22 | | COMMERCIAL FERTILIZER LIME | | _ |
| 600 | \triangle | | | | | | | | | | \wedge | 600 | | 659 | 35000 | 600 | | WATER | | ゴ |
| 0.24 | <u>/4\</u> | | | | | | | • | } | | /4\ | 0.24 | | 659 | 40000 | 0.24 | MSF | MOWING | | 4 |
| | | | | 15,962 | | | | | | | | 15,962 | | 670 | 00500 | 15,962 | SY | SLOPE EROSION PROTECTION | | \dashv |
| | | 4 | 4,285 | ĺ | | | | | | | | 4,285 | | 670 | 00720 | 4,285 | | DITCH EROSION PROTECTION MAT, TYPE B | | |
| | | | | 13,015 | | | | 1,480 | } | | | 13,015
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671 | 15000
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1,480 | | EROSION CONTROL MAT, TYPE A EROSION CONTROL MAT, TYPE B | | 4 |
| | | | | 1 | | | | 1,400 | 1 | | | 1,460 | | 0/1 | 13010 | 1,460 | 31 | ENOSION CONTROL WAI, TIPE B | | \exists |
| | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | ****** | ~~~~ | ····· | ****** | ****** | •••••• | ******* | | ***** | $\overline{\mathcal{A}}$ |
| | | | + | | | | | • | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | 832 | 15000 | LS | ~~~~ | STORM WATER POLLUTION PREVENTION PLAN | | 4 |
| | | | | | | | | } | 1 | | | LS | | 832 | 15002 | LS | | STORM WATER POLLUTION PREVENTION INSPECTIONS | | |
| | | | | | | | | | <u> </u> | | | LS | | 832 | 15010 | LS | | STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE | | |
| | | | | - | | | | <u>}</u> | 1 | | | 100,000 | | 832 | 30000 | 100,000 | EACH | EROSION CONTROL | | - |
| | | | 70 | 1 | | | | | | | | 70 | | 836 | 10000 | 70 | SY | SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 | | |
| | | | | | | | | | } | | | | | | | | | DDAINIAGE | | DA 7E |
| | | Λ . | | 1 | 28 | 88 | | | | <u> </u> | | 36_ | | 601 | 21050 | 36 | SY | DRAINAGE TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT | | <u> </u> |
| | | 4 | 14 | | | | | | | | | 14 | | 602 | 20000 | 1 · · · · · · · · · · · · · · · · · · · | ~~ C X~~ | CONCRETE MASONRY | | |
| | | | | + | | | | | | - | - | | | | | - | | } | | |
| | | | | | 26,488 | 14,306 | 1,550 | | | | | 42,344 | | 605 | 05110 | 42,344 | FT | 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC | | <u>YEV</u> |
| | | | | | | 40 | 40 | | | | | | | | | | | All LINICIA COLEUED DIDE LINIDED DA ANIC MAITH, CECTEVITA E FADDIC | | |
| | | | | 1 | 7,380 | 48
5,518 | 49
2,735 | | | | | 97
15,633 | | 605
605 | 05210
06020 | 97
15,633 | | 4" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC 4" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC | | |
| | | | | | . , | 0,010 | | • | | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | | | |
| 100 | | | | | | | | | Ĭ | | - | 100
200 | | 611 | 00400
00406 | 100 | | 4" CONDUIT, TYPE E | ļ | SCRIPTION |
| 200 | | | + | | | | | - | 1 | | | 200 | | 611 | 00406 | 200 | FI | 4" CONDUIT, TYPE F | | |
| | | | | | 828 | 758 | 306 | | | | | 1,892 | | 611 | 00410 | 1,892 | FT | 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET | | |
| 200 | | | | | | | | 524 | } | | | 200
524 | | 611
611 | 01500 | 200 | | 6" CONDUIT, TYPE F
12" CONDUIT, TYPE B | | |
| | | | | <u></u> | ••••• | ••••• | | 1,808 | † | | | 1,808 | ••••• | 611 | 04400
04600 | 524
1,808 | | 12" CONDUIT, TYPE C | | |
| | | | | | | | | 1,326 | | | | 1,326 | | 611 | 05900 | 1,326 | | 15" CONDUIT, TYPE B | | <u> </u> |
| | | | | | ~~~~ | ~~~~ | ******* | 426 | | ····· | | 426 | ~~~~ | 611 | 06100 | 426 | FT | 15" CONDUIT, TYPE C | | |
| 300 | | | | | | | | 420 | } | | | 300 | | 611 | 06600 | 300 | | 15" CONDUIT, TYPE E | | |
| | | | | | | | | 175 | | | | 175 | | 611 | 07400 | 175 | | 18" CONDUIT, TYPE B | | DESI |
| | | | | | ~~~~ | | | 291
48 | | | | 291
48 | —————————————————————————————————————— | 611
611 | 07600
08200 | 291
48 | | 18" CONDUIT, TYPE C
18" CONDUIT, TYPE F | | - |
| | | | | | ~~~~ | | | , , , , , , , , , , , , , , , , , , , | | | | 70 | | VII | ~~~~~ | 40 | 11 | | | |
| | | | | | | | | 795 | | | | 795 | | 611 | 09100 | 795 | | 21" CONDUIT, TYPE C | | _ 4 |
| | | + + | + | | | | | 49
238 | 1 | | 1 | 49
238 | | 611
611 | 10600
12100 | 49
238 | FT FT | 24" CONDUIT, TYPE C
27" CONDUIT, TYPE C | | ms |
| | | | 46 | | ······································ | | | | | | | 46 | | 611 | 16200 | 46 | FT | 27" CONDUIT, TYPE C 3
36" CONDUIT, TYPE A, 706.02 | | |
| | | | | | | | | _ | | | | | | | | | | | | DESI |
| | | | 22 | | | | | | † | | | 22 | | 611 | 19200 | 22 | FT | 42" CONDUIT, TYPE A, 706.02 | | |
| | | 1 1 | 118 | 1 | | | | | 1 | | | 118 | | 611 | 19200 | 118 | FT | 42" CONDUIT, TYPE A, 707.02, ALUMINIZED; OR 42" CONDUIT, 706.02; OR 42" CONDUIT, 707.65; OR 42" CONDUIT, 707.04 | | TAZ |
| | | | | | | | | | _ | _ | _ | _ | _ | | _ | | | | 1 | |
| | | | 61 | | | | | • | <u> </u> | | | 61
141 | | 611
611 | 20700
20700 | 61
141 | | 48" CONDUIT, TYPE A, 706.02 48" CONDUIT, TYPE A, 707.02, ALUMINIZED; OR 48" CONDUIT, 706.02; OR 48" CONDUIT, 707.65; OR 48" CONDUIT, 707.04 | | SHEE |

LAST REVISED: PIR4 04/23/2025

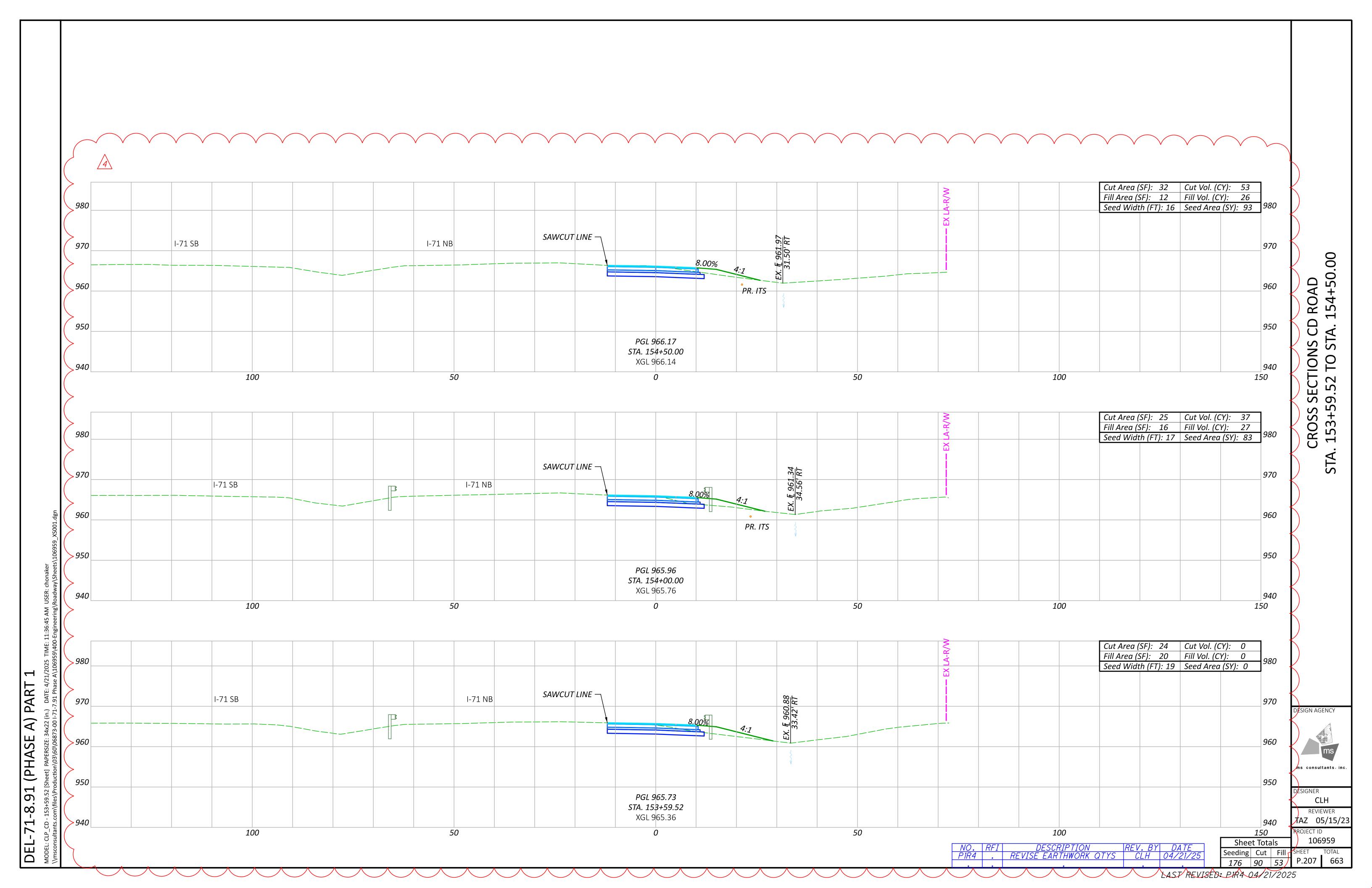
| | | | | | | SHEET | Γ NUM. | | /4 | | | | PA | RT. | | ITEM | GRAND | | SEE | |
|-------------------------------|----------|------------|---------------------------------------|--------|-------|------------------|--------------|--------------|--|--------------|--|---|---------------------|---------------------------------------|----------------|----------------|----------------|-----------|--|--|
| | P.22 | P.25 | P.34 | P.108 | P.109 | P.111 | P.115 | P.116 | | P.567 | P.595 | OFFICE | 01/NHS/01 | . 02/NHS/08 | ITEM | EXT | TOTAL | UNIT | DESCRIPTION SHEET NO. | |
| | | | | | | | | | | . | | | | | | | | | DRAINAGE (CONT.) | |
| | | | | | | 12 | | | | 1 | | | 12 | | 611 | 98150 | 12 | EACH | CATCH BASIN NO. 3 | |
| | | | | | | 20 | | | | | | ****** | | · · · · · · · · · · · · · · · · · · · | 611 | 98180 | 12
20 | | CATCH BASIN, NO. 3 CATCH BASIN, NO. 3A | |
| | | | | | | 1-1- | | | ; | | | | ~~ <u>1</u> ~~ | | 611 | 98370 | 1,,,,1 | - A O | CATCH BASIN, NO. 6 | |
| | 1 | | | | | 23 | | | <u> </u> | | | ~~~~ | $\frac{3}{3}$ | | 611 | 98410
98470 | 3 | | CATCH BASIN, NO. 8 CATCH BASIN, NO. 2-2B | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 1 13 | | | | . | | | 1 2 | | 611
611 | 98710
99104 | 1 12 | | INLET, NO. 2-6 | |
| | | | | | | | | | | | | | 13 | | | 33104 | 13 | | INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C | |
| | | | | | | 27 | | | , | | | ~~~~ | 27 | | 611 | 99574 | 27 | | MANHOLE, NO. 3 | |
| | | | | | | | 14 | 4 | ; | | 4 | ~~~~ | ~~ 2 2~~ | | 611 | 99710 | 22 | EACH | PRECAST REINFORCED CONCRETE OUTLET | |
| | | | | | | | | | | | | | | | | | | | | |
| | \vdash | | | | | | | | <u>{</u> | | | | | | | | | | | |
| | | | | | | | | | ^ | (70 | | 10101010101 | 70 | | 613 | 41250 | 70 | CY | LOW STRENGTH MORTAR BACKFILL (TYPE 1) | |
| | | | | | | | | | [4] | | | | | | | | | | | |
| | \vdash | | | | | + | - | 1 | - | - | - | | | 1 | | | - | - | PAVEMENT | _ |
| | | | | | | | | | | | | | | | | | | | I VA FIAIFIA I | /RY |
| | | 460 | | 10,251 | | | | | | | | 24.022 | 10,251 | | 252 | 01500 | 10,251 | 1 | FULL DEPTH PAVEMENT SAWING | ∀ |
| | | 460
276 | 74\ | ····· | ~~~~ | | | | | | | 24,928
582 | 25,388
858 | · · · · · · · · · · · · · · · · · · · | 301 | 56000
20000 | 25,388
858 | | ASPHALT CONCRETE BASE, PG64-22, (449) AGGREGATE BASE | Ş |
| | | | · · · · · · · · · · · · · · · · · · · | | | ~~~~~ | | | | | | ^ | 15,725 | | 304 | 20001 | 15,725 | 1 | AGGREGATE BASE, AS PER PLAN, 6" AVG. | in: |
| | | 140 | | | | | | | | | | 16.002 | 16 242 | | 407 | 20000 | 16 242 | GAL | NON TRACKING TACK COAT | L S |
| | | 149 | 145 | ····· | ~~~~ | | | | ······································ | | | 16,093 | 16,242 | | 407
411 | 20000
10000 | 16,242
145 | GAL
CY | NON-TRACKING TACK COAT STABILIZED CRUSHED AGGREGATE | RA |
| | | 69 | | | | | | | | | | | 69 | | 441 | 50000 | 69 | CY | ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22 | |
| | | | | | | | | | | | | 7,871
3,633 | 7,871
3,633 | | 442
442 | 00100
10000 | 7,871
3,633 | | ANTI-SEGREGATION EQUIPMENT ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) | ìΕΓ |
| | | | | | | | | | | | | 3,033 | 3,033 | | 442 | 10000 | 3,033 | Ci | ASPHALI CONCRETE SURFACE COURSE, 12.3 MINI, 11PE A (440) | g |
| | | | | | | | | | | | | 4,238 | 4,238 | | 442 | 10080 | 4,238 | | ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446) | |
| | \vdash | | | | 1,742 | | | | | | | 9,207 | 9,207
1,742 | | 452
609 | 15050
12000 | 9,207
1,742 | | 12.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P COMBINATION CURB AND GUTTER, TYPE 2 | /25
/25
/25 |
| | | | | | 4,477 | | | | | | | | 4,477 | | 609 | 23001 | 4,477 | FT | COMBINATION CURB AND GUTTER TYPE 4 AS PER PLAN | 4/11/11 |
| | \vdash | | | | 65 | _ | | 1 | | | | | 65 | | 609 | 23001 | 65 | FT | COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN, "B" P.5 | 04, |
| | | | | | 2,653 | | | | | | | | 2,653 | | 609 | 24510 | 2,653 | FT | CURB, TYPE 4-C | 747
742
742
742 |
| ugp | | | | | 1,780 | | | | | | | | 1,780 | | 609 | 26000 | 1,780 | 1 | CURB, TYPE 6 | J |
| G003. | | 250
10 | | | | | | | | | | | 250
10 | | 617
617 | 10100
25000 | 250
10 | 1 | COMPACIED AGGREGATE | |
| 959_G | | | 2,450 | | | | | | | | | | 2,450 | | 618 | 40101 | 2,450 | | RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN P.26 | 07YS
07YS
17YS |
| s\1069 | | | | | | _ | | <u> </u> | | | | FO 40F | FO 40F | | 072 | 10000 | FO 40F | ГТ | VOLD DEDUCING ASPUALT MEMADRANE (V/DANA) | 0 O T |
| Sheet | | | | | | <u> </u> | | <u> </u> | | | | 50,405 | 50,405 | | 872 | 10000 | 50,405 | FT | VOID REDUCING ASPHALT MEMBRANE (VRAM) | REVISE DRAINAGE
REVISE PVMT. C
REVISE LSM Q |
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adway\ | | | | | | | | | | | | | | | | | | | | JE P |
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6959\4C | | | | | | | | 1 | | | | | | | | | | | | |
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| PAR: | | | | | | | | <u> </u> | | | | | | | | | | | | P |
| 55 | | | | | | | | | | | | | | | | | | | | SIGN AGENCY |
| (A) | | | | | | | | | | | | | | | | | | | | 4 |
| SE ATE: 4, 6873-0 | <u> </u> | | | | | - | | | | - | - | | | | | - | | | | ms |
| 44 (| | | | | | | | | | | | | | | | | | | | |
| (PF | | | | | | | | | | | | | | | | | | | m. | s consultants, inc. |
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oduc | | | | | | 1 | | 1 | 1 | 1 | - | | | 1 | | | | 1 | DE. | SIGNER |
| 8.9
PERSIZI | | | | | | | | | | | | | | | | | | | | ACW
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S.com\ | | | | | | | | | | | | | | | | | | | | AZ 11/22/23 |
| Shee | | | | | | | | | | | | | | | - | | | | PRI | OJECT ID
106959 |
| DEL. | | | | | | | | | | | | | | | | | | | | EET _TOTAL |
| | | | | | | | | | | | | | | | | | | | P | 2.103 663 |

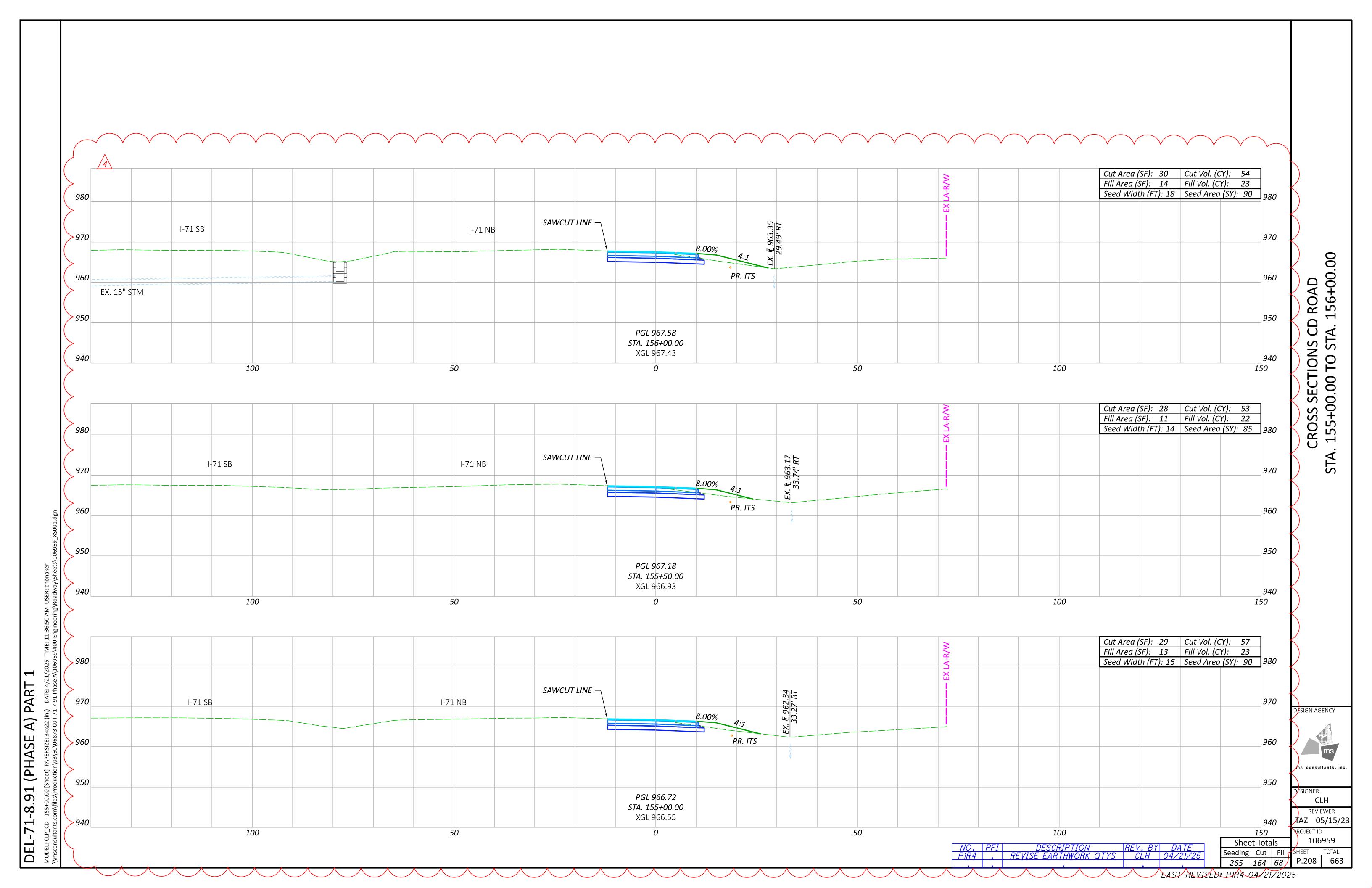
| | | | | SHEET | T NUM. | | | | | PA | RT. | TT= | ITEM | GRAND | | DECCRIPTION | SEE | |
|--|--|-------|--|--------------|---|-----------------|-----------------|--------------|-------|--|-----------------|------------|----------------|--|--------------|--|--------------|---------------------|
| P.25 | P.34 | P.466 | P.469 P.473 | P.475 | P.521 | | | | | 01/NHS/01 | . 02/NHS/08 | ITEM | EXT | TOTAL | UNIT | DESCRIPTION | SHEET
NO. | |
| | | | | | | | | | | | | | | | | TRAFFIC CONTROL (CONT.) | | 1 |
| | + | 7 | | + | + | | - | | | 7 | | 630 | 87400 | 7 | EACH | REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL | | 1 |
| | 1 | 1 | | 1 | | | | | | 1 | | 630 | 89706 | 1 | | REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-12.30 | | 1 |
| | | 2 | | | | | | | | 2 | | 630 | 89804 | 2 | | REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-15.115 | | |
| | 4 | | | | | | | | | 4 | | 630 | 89894 | 4 | EACH | REMOVAL OF TEMPORARY OVERLAY SIGN AND DISPOSAL | | |
| \perp | <u> </u> | | 7 | <u> </u> | | | | | | 7 | | 630 | 97700 | 7 | EACH | SIGNING, MISC.:TEMPORARY SIGN SUPPORT | P.465 | 1 |
| | _ | | | _ | | | | | | | | | | | | | | - |
| 1 | | | | 0.11 | | | | | | 1 | | 642 | 00300 | 1 | | CENTER LINE, TYPE 1 | | - |
| | | | | 0.11 | | | | | | 0.11
0.06 | | 644
644 | 00104
00204 | 0.11
0.06 | MILE
MILE | EDGE LINE, 6" LANE LINE, 6" | | 1 |
| | | | | 0.11 | | | | | | 0.11 | | 644 | 00300 | 0.11 | MILE | CENTER LINE | | 1 |
| | | | | 240 | | | | | | 240 | | 644 | 00700 | 240 | FT | TRANSVERSE/DIAGONAL LINE | | |
| | | | | | | | | | | | | | | | | | |] |
| | | | 0.01 | 1.64 | | | | | | 1.65 | | 646 | 10010 | 1.65 | MILE | EDGE LINE, 6" | | |
| \vdash | <u> </u> | | | 0.49 | | | | <u> </u> | | 0.49 | | 646 | 10110 | 0.49 | MILE | LANE LINE, 6" | | _ |
| <u> </u> | 1 | | | 0.34
153 | 1 | | | | | 0.34
153 | | 646
646 | 10200 | 0.34
153 | MILE | CENTER LINE, DOUBLE YELLOW | | 1 |
| <u> </u> | 1 | | 48 | 36 | 1 | | 1 | | | 153
84 | | 646 | 10310
10400 | 153
84 | FT | CHANNELIZING LINE, 12" STOP LINE | + | 1 |
| | 1 | | 40 | 30 | 1 | | 1 | | | 04 | | 040 | 10400 | J-4 | 1.1 | OTOT LINE | | 1 |
| | † | | | 478 | 1 | | | | | 478 | | 646 | 10510 | 478 | FT | CROSSWALK LINE, 12" | | 1 > |
| | | | 120 | 216 | | | | | | 336 | | 646 | 10520 | 336 | FT | CROSSWALK LINE, 24" | | } ~ |
| | | | | 363 | | | | | | 363 | | 646 | 10600 | 363 | FT | TRANSVERSE/DIAGONAL LINE | | |
| \perp | <u> </u> | | 211 | <u> </u> | | | | | | 211 | | 646 | 10620 | 211 | | CHEVRON MARKING | | { |
| \vdash | <u> </u> | | 50 | 16 | | | | | | 66 | | 646 | 20300 | 66 | EACH | LANE ARROW | | |
| \vdash | + | | | + | + | | <u> </u> | | | 2 | | 646 | 20320 | | EACH | WRONG WAY ARROW | | 1 7 |
| | | | <u> </u> | 773 | | | | | | 773 | | 646 | 20320 | 773 | | | | 1 - |
| | | | 0.61 | | | ~~~~ | | ~~~~ | ~~~~~ | 0.61 | | 807 | 12010 | 0.61 | MILE | WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6" | | 1 5 |
| | | | /4 1,162 | | | | | | | 1,162 | | 807 | 12310 | 1,162 | | WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12" | | 1 🗓 |
| | | | 7.68 | 1 | | <u> </u> | | <u> </u> | | 7.68 | | 807 | 14010 | 7.68 | MILE | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" | |] |
| | | | | | | | | | | | | | | | | | | <u>ا</u> ل |
| | | | 7.33 | | | | | | | 7.33 | | 807 | 14110 | 7.33 | MILE | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6" | | 4 |
| <u> </u> | <u> </u> | | A | | | | | | ····· | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | ~~~~ | 14210 | | ГТ | VALET DEFLECTIVE THERMADIL ACTIC DAVENAENT MAARKING CHANNEH ZING HALE 12" | | |
| | | | /4\ 6,039
2,638 | | | | ~~~~ | | ····· | 6,039
2,638 | ~~~~ | 807
807 | 14310
14410 | 6,039
2,638 | FT FT | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12" WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6" | | - 125
125
126 |
| | | | 15.02 | | | | | | | 15.02 | | 850 | 10010 | 15.02 | MILE | GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) | | - 174 <u>7</u> |
| | | | 2,638 | | | | | | | 2,638 | | 850 | 10110 | 2,638 | FT | GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) | | 7/00/ |
| | | | 5,539 | | | | | | | 5,539 | | 850 | 10130 | 5,539 | FT | GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) | | BY |
| | | | | | *************************************** | ~~~~ | | ******* | ~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ****** | ~~~~ | ********* | | | | | 1747
1747 |
| dgh ———— | <u> </u> | | /4\ 0.62 | | | | | | ····· | 0.62 | | 850 | 20010 | 0.62 | MILE | GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE) | | RE |
| 9006 | 1 | | 1,662 | 1 | | | | | | 1,662 | | 850 | 20130 | 1,662 | FI | GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE) | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 0695 | | | | | | | | | | | | | | | | TRAFFIC SIGNALS | | |
| eets/ | | | | | | | | | | | | | | | | | | |
| y/She | | | | | 1,938 | | | | | 1,938 | | 625 | 25600 | 1,938 | FT | CONDUIT, 4", 725.04 | | |
| adwa | | | | | 969 | | | | | 969 | | 625 | 29000 | 969 | FT | TRENCH | | SC |
| lg/Ro | 1 | | | 1 | 7 | | 1 | | | 7 | | 625 | 30700 | 7 | | PULL BOX, 725.08, 18" | | JE DE |
| eerin ———— | 1 | | | 1 | 969 | 1 | 1 | | | 969 | | 625
625 | 30706
36010 | 969 | EACH
FT | PULL BOX, 725.08, 24" UNDERGROUND WARNING/MARKING TAPE | | |
| Engin | 1 | | | | 909 | | | | | 909 | | 025 | 20010 | פסכ | гі | UNDENDINO WANNING/WANNING TAPE | | |
| 4400- | <u>† </u> | | | 1 | <u> </u> | | | | | | | | | | | | | |
| 6959 | <u> </u> | | | <u> </u> | | <u> </u> | | | | | | | | | | | | |
| A/10¢ | | | | | | | | | | | | | | | | | | 00.
R4 |
| hase | | | | | | | | | | | | | | | | | | PIF |
| 91 P | 1 | | | 1 | 1 | | <u> </u> | | | | | | | | | | | DESIGN A |
| 71-7 | 1 | | | 1 | 1 | | | | | | | | | | | | | 1 |
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| duction\03\60\068 | | | | | | | | | | | | | | | | | | DESIGNE |
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| ultants.com\files\Production\03\60\068 | | | | | | | | | | | | | | | | | | TAZ : |
| consultants.com\files\Production\03\60\068 | | | | | | | | | | | | | | | | | | TAZ |

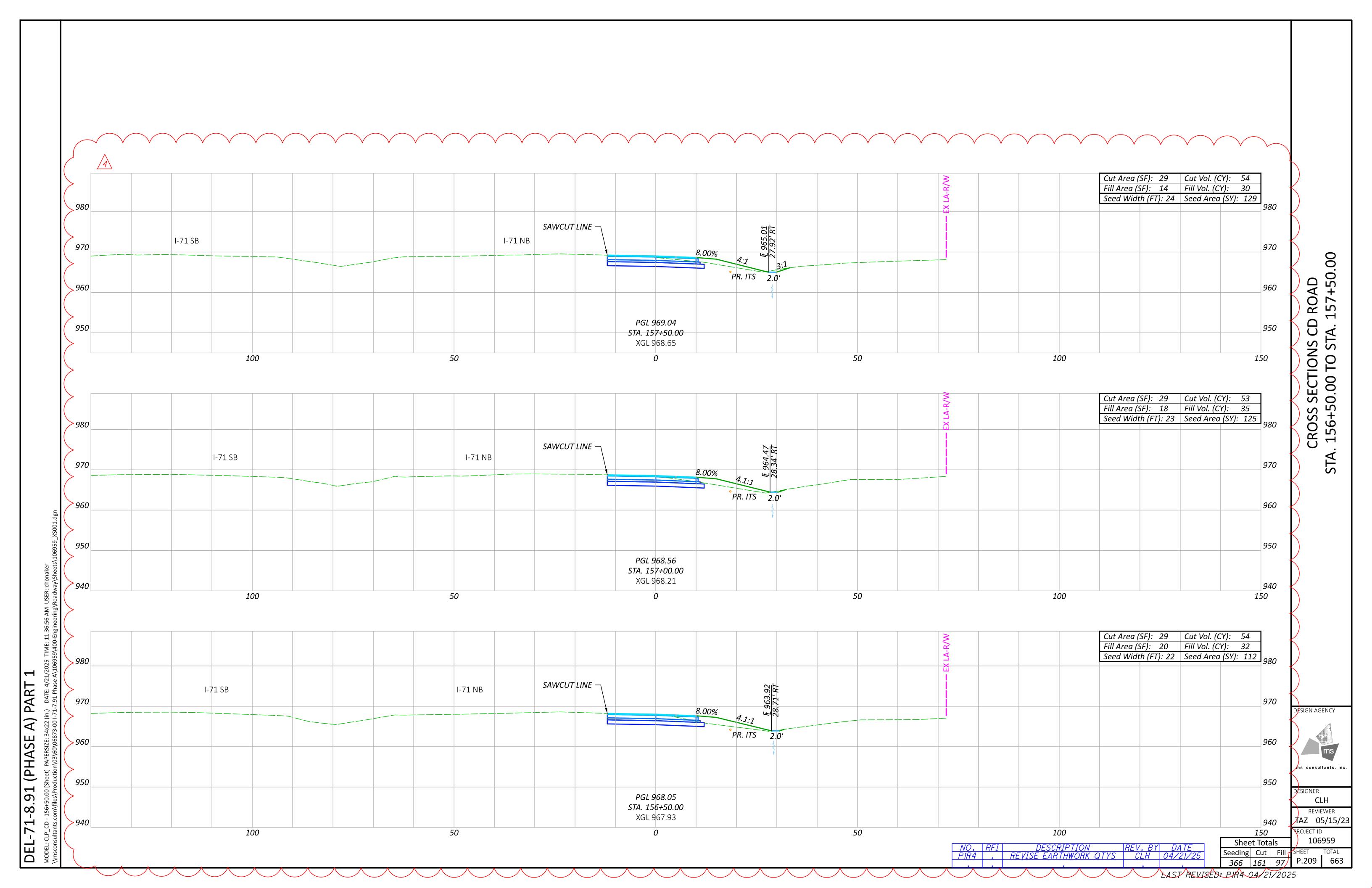
| | | | SHEET | Γ NUM. | | | P | ART. | | ITEM | GRAND | | SEE | |
|--|---------------|--------------------|--|--|---|--|-------------------|--|--|---|---|--|----------|--|
| 19 | P.567 | P.595 | | | | | 01/NHS/0 | 02/NHS/08 | | EXT | TOTAL | | | |
| Column C | | | | | | | | | | | | RETAINING WALLS (MSE-1) | | 7 |
| April | 4 | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | · • • • • • • • • • • • • • • • • • • • | \ | 689 | ~~~~~ | 203 | 20001 | | | P.566 | \exists |
| 17 | | <i>^</i> | | | | | | | | 1 | 1 | | 1.500 | |
| Column | | \ | | | | | | | | | , | | |] |
| Sign | | > | | | | | | | | | † · · · · · · · · · · · · · · · · · · · | | | 4 |
| | | $\sim\sim\sim$ | | | | | ~ ~~~~ | ~~~~ | ~~~~~~ | + | ~~~~ | | | + |
| 75 | | , | | | | | , | | 040 | | Í | | | 1 |
| Column | Λ | | ~~~~ | | | | | | 840 | | | CY WALL EXCAVATION ? | | |
| 1 | 4 | | | | | | | | | | | SY FOUNDATION PREPARATION, AS PER PLAN | | 2 |
| 12 | | $\sim\sim\sim\sim$ | ~~~~ | <u> </u> | | | \sim | J | | ~~~~ | | | | \dashv |
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| 1 | 4 | | | | | | | | | | | | |] |
| S | | <u> </u> | ~~~~ | <u></u> | | | سيسلم | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | | | 4 |
| Parameter Para | | 15 | | | 1 | + | 15 | | | | 15 | | | + |
| Age | | | | | | | | | 040 | 28000 | | SGB TNST ECTION AND COMIT ACTION TESTING | | 1 |
| A | | | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | RETAINING WALLS (MSE-2) | | 4 |
| Fig. | | | ~~~~ | | | \ | ~~~~~ | ~~~~~ | 202 | 20001 | | | D.F.C.C | \dashv |
| 150 | | | | | | | | | | 1 | 1 | | P.500 | - |
| CR | 77 | | | | | 1 | | | | | | | | |
| 543 545 546 79 | Λ | | ****** | | | | 694 | | 512 | 10100 | 694 | SY SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | |] |
| 25 | | | | <u> </u> | 4 | | ~~~~~ | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~ | 400000 | | _ | _ |
| 255 | | 5,831 | | | | | 5,831 | | 840 | 20000 | 5,831 | SF MECHANICALLY STABILIZED EARTH WALL | | - |
| A 100 | | | ~~~~ | · · · · · · · · · · · · · · · · · · · | \ | | 256 | · | 840 | 21000 | 256 | | | \exists |
| | | | | | | | | | | | | | P.566 | 7 |
| 150 | 4 | 4,109 | | | | | 4,109 | | 840 | 23000 | 4,109 | CY SELECT GRANULAR BACKFILL | | |
| 330 330 340 3500 310 5 CONSETT ESCRIPAGE | | | | | | | | | | | · | | | 4_ |
| | | \sim 155 \sim | ~~~~ | | | | 155 | ~~~~ | 840 | 25020 | 155 | FI 6" DRAINAGE PIPE, NON-PERFORATED | | - |
| | ^ | 330 | | | | | 330 | | 840 | 26000 | 330 | FT CONCRETE COPING | | |
| S | 4 | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | | | | | | | | |
| \$1.125 \$1.3125 \$0.7 \$0.001 \$2.135 \$1.7 \$1.500.000000000000000000000000000000000 | | 5 | | | | | 5 | | | | 5 | | | _\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| 3,125 507 00101 3,125 FT STEEP PLES HP10W2, FERNISHED, AS PER PLAN P.566 1,366 1,367 1,369 1,300 | | LS | | | 1 | | LS | | 840 | 28000 | LS | SGB INSPECTION AND COMPACTION TESTING | | |
| 3,125 507 00101 3,125 FT STEEP PLES HP10W2, FERNISHED, AS PER PLAN P.566 1,366 1,367 1,369 1,300 | | | | | | | | | | | | STRUCTURE OVER 20 FOOT SPAN (DEL-00071-08.910) | | |
| 1366 1365 502 9.292 1386 FT PREDRED HOLES, AS PER PLAN P.556 9.4971 1.596 9.49371 5.99 1.0000 40.4371 40.4371 5.90 1.0000 40.4371 40.4371 5.90 1.0000 40.4371 40.4371 5.90 1.0000 40.4371 4 | | | | | | | | | | | | | | 1 |
| 10-371 | - | | | | | | | | | | | | | _ |
| 8,822 509 30020 8,822 FT NO. 4 DEFORMED GERP REIN-CRICIMENT 1 1 1 1 1 1 1 1 1 | | ····· | ~~~~ | | · | | · | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | , , , , , , , , , , , , , , , , , , , | | | P.566 | |
| 293 | $\overline{}$ | ~~~~~ | ~~~~ | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ | ~~~~~ | | | 30020 | | | | 4 |
| 293 511 33418 293 √A CY CLASS QCZ CORRETE WITH QC/OA SUPERSTRUCTURE | • | ~~~~ | ~~~~ | | | | | | | | ~~~~ | \sim \wedge | | |
| 1,063 1,063 511 34446 1,063 CY CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK 90 511 34450 90 CY CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK 90 511 34450 90 CY CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK 90 91 34450 90 CY CLASS QC2 CONCRETE WITH QC/QA, PICR ABOVE FOOTINGS 91 925 511 46512 235 CY CLASS QC1 CONCRETE WITH QC/QA, PICR ABOVE FOOTINGS 956 9 | 293 | ~~~~~ | | | | | | 293 | | | 293 | \sim | | |
| 90 90 511 34450 90 CY CLASS QCZ CONCRETE WITH QC/OA, BRIDGE DECK (PAAPET) 183 183 511 41012 183 CY CLASS QCZ CONCRETE WITH QC/OA, PIER ABOVE FOOTINGS 235 235 511 46512 235 CY CLASS QCZ CONCRETE WITH QC/OA, PIER ABOVE FOOTINGS 141 511 50212 141 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 355 355 351 3512 355 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 8 8 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 8 8 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 18 18 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 18 18 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 18 18 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 18 18 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 18 18 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 18 18 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 18 18 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 18 18 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 18 18 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 18 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 18 511 53010 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 19 512 53000 8 CY CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 10 513 51510 8 CANCER 10 514 51510 8 CANCER 10 515 51510 8 CANCER 11 515 51510 8 CANCER 12 515 51510 8 CANCER 13 516 51510 8 CANCER 14 517 51510 8 CANCER 15 516 51510 8 CANCER 16 517 51510 8 17 CLASS QCZ CONCRETE WITH QC/OA, SUBSTRUCTURE 17 515 51510 8 18 517 515 1300 8 19 517 51510 8 10 518 51510 8 10 518 51510 8 10 518 51510 8 10 518 51510 8 10 518 51510 8 10 518 51510 8 10 518 51510 8 10 518 51510 8 10 518 510 8 10 518 510 8 10 518 510 8 10 518 5 | 1 062 | | | | | | | 1 062 | | | 1 062 | | | 4 |
| 183 | | | | | | | | - | | | <u> </u> | | | 1 |
| 141 | | | | | | | | 183 | | | | | | |
| 141 511 50212 141 CY CLASS QC1 CONCRETE WITH QC/QA, SUBSTRUCTURE | | | | | | | | | | | | | | _ |
| 355 511 51512 355 | | | | | | | | | | | | | P.566 | - |
| 8 511 53010 8 | | | | | | | | | | | | | | |
| 2,846 512 10100 2,846 SY SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) 9 512 33000 9 4 SY TYPE 2 WATERPROOFING 16 16 515 15120 16 EACH DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF66-49(108-0" LONG) 16 16 515 15120 16 EACH DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF66-49(108-0" LONG) 90 515 20000 90 EACH INTERMEDIATE DIAPHRAGMS 303 516 10010 303 FT ARMORILESS PREFORMED JOINT SEAL 27 516 13600 27 SF 1" PREFORMED EXPANSION JOINT FILLER 145 10,25 516 13900 145 SF 2" PREFORMED EXPANSION JOINT FILLER 10,25 516 25000 1,025 4 SF NYLON REINFORCED NEOPREN SHEETING 32 516 44200 32 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), (1'-7"x4"x3 1/8" PAD, 3'-3 1/2"x1"-5"x1 1/2" STEEL LOAD PLATE) | 8 | | | | | | | 8 | | * | $\sim \sim $ | | P.575 | |
| 9 512 33000 9 7 SY TYPE 2 WATERPROOFING 16 16 515 15120 16 EACH DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF66-49(108'-0" LONG) 16 16 515 15120 16 EACH DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF66-49(125'-7" LONG) 10 90 515 20000 90 EACH INTERMEDIATE DIAPHRAGMS 10 90 515 20000 90 EACH INTERMEDIATE DIAPHRAGMS 10 10 10 303 FT ARMORLESS PREFORMED JOINT SEAL 10 12 516 13600 27 SF 1' PREFORMED EXPANSION JOINT FILLER 11 10 10 10 10 10 10 10 10 10 10 10 10 1 | | | | | | | | | | | | | | |
| 16 515 15120 16 EACH DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF66-49(108'-0" LONG) 16 16 515 15120 16 EACH DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF66-49(125'-7" LONG) 90 515 20000 90 EACH INTERMEDIATE DIAPHRAGMS 303 516 10010 303 FT ARMORLESS PREFORMED JOINT SEAL 27 516 13600 27 SF 1" PREFORMED EXPANSION JOINT FILLER 145 516 13900 145 SF 2" PREFORMED EXPANSION JOINT FILLER 1,025 516 25000 1,025 4 SF NYLON REINFORCED NEOPRENE SHEETING 32 516 44200 32 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), (1'-7"x4"x3 1/8" PAD, 3'-3 1/2"x1'-5"x1 1/2" STEEL LOAD PLATE) | 2,846 | ~~~~ | ~~~~ | | | | ~~~~ | 2,846 | | | | | _ | 4 |
| 16 515 15120 16 EACH DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF66-49(125'-7" LONG) 90 90 515 20000 90 EACH INTERMEDIATE DIAPHRAGMS 303 516 10010 303 FT ARMORLESS PREFORMED JOINT SEAL 27 516 1360 27 SF 1" PREFORMED EXPANSION JOINT FILLER 145 145 165 516 13900 145 SF 2" PREFORMED EXPANSION JOINT FILLER 1,025 516 25000 1,025 4 SF NYLON REINFORCED NEOPPRENE SHEETING 32 516 44200 32 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), (1'-7"x4"x3 1/8" PAD, 3'-3 1/2"x1'-5"x1 1/2" STEEL LOAD PLATE) | 4.6 | ~~~~ | | | | | ~~~~~ | 16 | + | | | | + | 4 |
| 90 515 2000 90 EACH INTERMEDIATE DIAPHRAGMS 303 516 10010 303 FT ARMORLESS PREFORMED JOINT SEAL 27 516 13600 27 SF 1" PREFORMED EXPANSION JOINT FILLER 145 516 13900 145 SF 2" PREFORMED EXPANSION JOINT FILLER 1,025 516 25000 1,025 7 SF NYLON REINFORCED NEOPRENE SHEETING 32 516 44200 32 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), (1'-7"x4"x3 1/8" PAD, 3'-3 1/2"x1'-5"x1 1/2" STEEL LOAD PLATE) | 16 | | | 1 | | 1 | <u> </u> | 16 | 515 | | 16 | | <u> </u> | 1 |
| 303 516 10010 303 FT ARMORLESS PREFORMED JOINT SEAL 27 516 13600 27 SF 1" PREFORMED EXPANSION JOINT FILLER 145 145 516 13900 145 SF 2" PREFORMED EXPANSION JOINT FILLER 1,025 516 25000 1,025 4 SF NYLON REINFORCED NEOPRENE SHEETING 32 516 44200 32 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), (1'-7"x4"x3 1/8" PAD, 3'-3 1/2"x1'-5"x1 1/2" STEEL LOAD PLATE) | | | | | | | | 90 | | | † | | | <u>]</u> |
| 27 516 13600 27 SF 1" PREFORMED EXPANSION JOINT FILLER 145 145 156 13900 145 SF 2" PREFORMED EXPANSION JOINT FILLER 1,025 516 25000 1,025 4 SF NYLON REINFORCED NEOPRENE SHEETING 32 516 44200 32 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), (1'-7"x4"x3 1/8" PAD, 3'-3 1/2"x1'-5"x1 1/2" STEEL LOAD PLATE) | 2.2.2 | | | _ | | <u> </u> | | | | 425 | | FT ADMAGNIEGE DREEGENIES JOURT OF W | | - <sup>1</sup> |
| 145 516 13900 145 SF 2" PREFORMED EXPANSION JOINT FILLER 1,025 516 25000 1,025 4 SF NYLON REINFORCED NEOPRENE SHEETING 32 516 44200 32 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), (1'-7"x4"x3 1/8" PAD, 3'-3 1/2"x1'-5"x1 1/2" STEEL LOAD PLATE) | | | | - | | | - | 303 | | 1 | | | _ | 十 |
| 1,025 516 25000 1,025 /4\ SF NYLON REINFORCED NEOPRENE SHEETING 32 516 44200 32 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), (1'-7"x4"x3 1/8" PAD, 3'-3 1/2"x1'-5"x1 1/2" STEEL LOAD PLATE) | | | | | | 1 | | 145 | 516 | | | | + | T |
| 32 SID 44200 32 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), (1 - / X4 X3 1/8 PAD, 3 -3 1/2 X1 -5 X1 1/2 STEEL LOAD PLATE) | 1,025 | | | | | | | | 516 | / | * * * * * * | | | |
| | 32 | | | | | | | | 516 | | | | | SH |

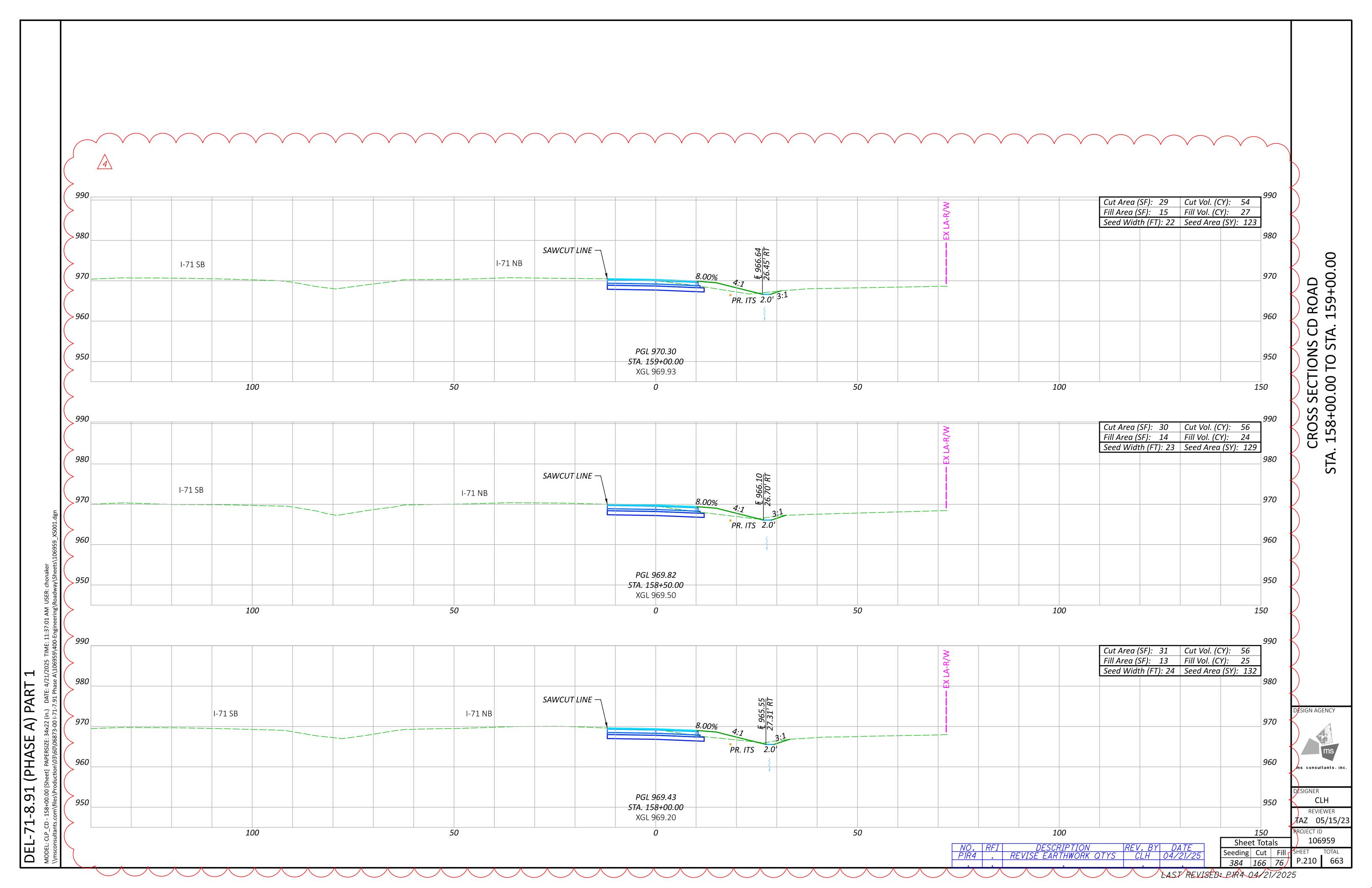
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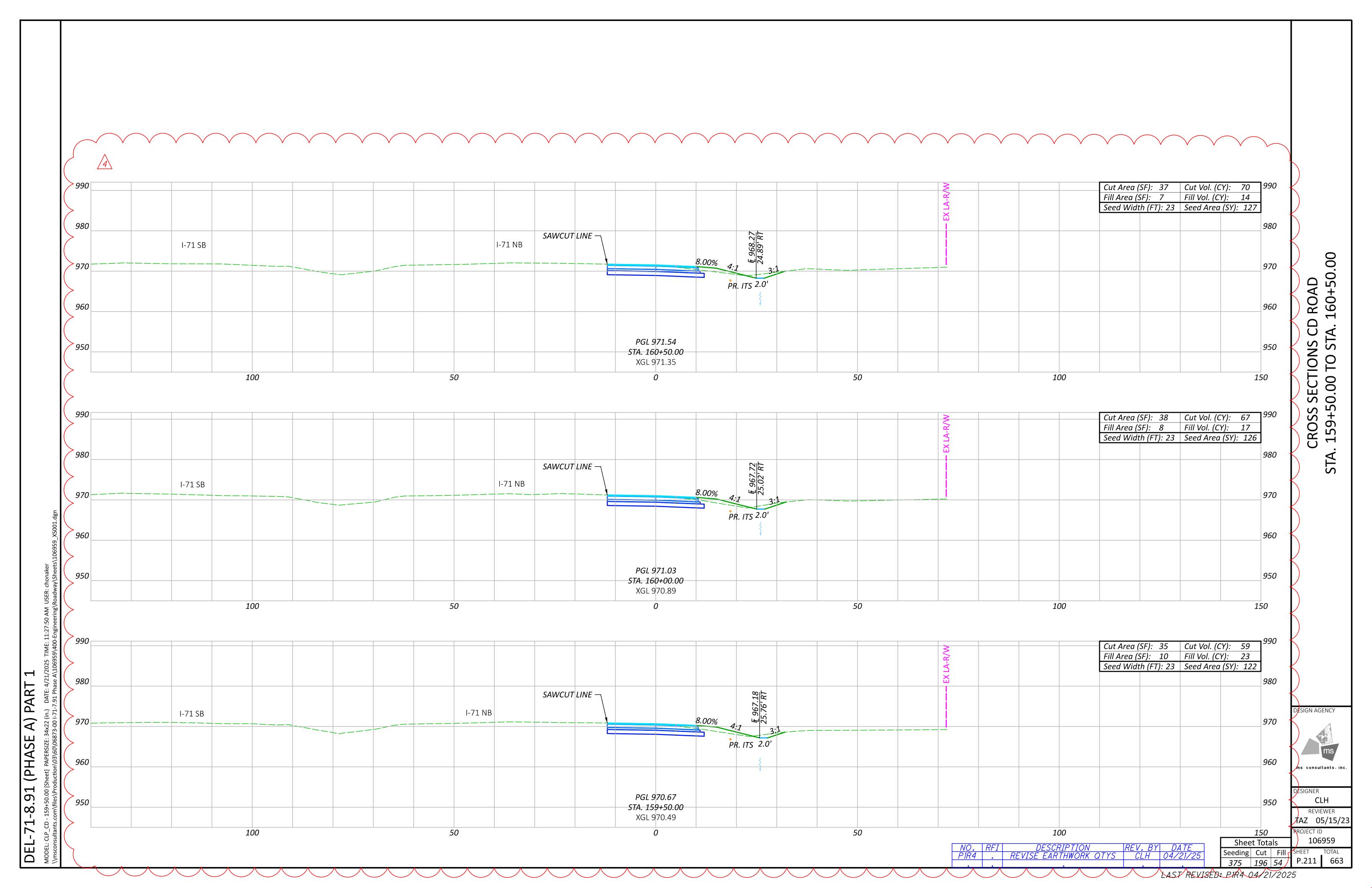
| Т | T | ı | | IEET NU | | T | | 1 | | kRT.
T | ALT | ITEM | ITEM | GRAND | UNIT | DESCRIPTION | SEE
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|-------|------|------|------|------------|--------------|--------------|--|--|---------------|-------------|--|------------|----------------|---------------|------------|---|------------------|---------------|
| P.24 | P.25 | P.26 | P.28 | P.34 | P.109 | P.113 | P.567 | | 01/NHS/01 | 1 02/NHS/08 | 3 (X) | | EXT | TOTAL | | | NO. | _ |
| | | | | | | | | | | | | | | | | STRUCTURE OVER 20 FOOT SPAN (DEL-00071-08.910) (CONT.) | | _ |
| | | | | | | | 32 | | | 32 | | 516 | 46900 | 32 | EACH | BEARING DEVICE, MISC.:ELASTOMERIC BEARING ASSEMBLY | P.578 | 3 |
| | | | | | | | 255 | | <u> </u> | 255 | | 518 | 21200 | 255 | CY | DODOLIC DACKELLI MUTU CEOTEVTUE FADDIC | | - |
| | | | | | | | 255
303 | | | 255
303 | | 518 | 40000 | 303 | | POROUS BACKFILL WITH GEOTEXTILE FABRIC 6" PERFORATED CORRUGATED PLASTIC PIPE | | |
| | | | | | | | 43 | | | 43 | | 518 | 40010 | 43 | FT | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS | | \Box |
| | | | | | | | 144 | · · · · · · · · · · · · · · · · · · · | \ | 144 | / | 524 | 94904 | 144 | FT | DRILLED SHAFTS, 48" DIAMETER, INTO BEDROCK | | _ |
| | | | | | | | 152 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | 152 | · · · · · · · · · · · · · · · · · · · | 524 | 94906 | 152 | | DRILLED SHAFTS, 54" DIAMETER, ABOVE BEDROCK | | |
| | | | | | | | 1,009 | | | 1,009 | | 526 | 30010 | 1,009 | | REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17") | | |
| | | | | | | | 303 | | | 303 | | 526 | 90030 | 303 | FT | TYPE C INSTALLATION | <u> </u> | - |
| | | | | | | | | | | | | | | | | STRUCTURE OVER 20 FOOT SPAN (DEL-00071-08.910) ALTERNATES | | |
| | | | | | | | \ \ | ******* | | ~~~~ | ~~~ <u>~</u> | | ~~~~ | ~~~~~ | | | | |
| | | | | | | | 565 | \ | | 565
565 | \ \ \ \ \ \ \ \ \ \ \ \ \ | 607
607 | 39930
98000 | 565
565 | FT
FT | VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC (ALTERNATE 1) FENCE, MISC.: DECORATIVE FENCE (ALTERNATE 2) | P.20
P.20 | |
| | | | | | | | | | | | | | | | | retroe, who shi be so twent to the entire to the tent of the tent | 1.20 | |
| | | | | | | | 589 | | | 589 | X | 517 | 75122 | 589 | | RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING AND VANDAL PROTECTION FENCE) (ALTERNATE 1) | P.20 | |
| | | | | | 1 | + | + | | † | 589 | f | 517 | 76300 | 589 | FI | RAILING, MISC.: CONC. PARAPET W/ TWIN STEEL TUBE RAIL & DECORATIVE PROTECTION FENCE (ALTERNATE 2) | P.20 | \dashv |
| | | | | | | | | | | | | | | | | | | |
| | | | | /3 | \ | | | | <u> </u> | | | | | | | MISCELLANEOUS STRUCTURE | | |
| | | | | 73 | \ | LS | | | LS | | | 503 | 11101 | LS | | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN | P.23 | |
| | | | | | 7,167 | | _ | | 7,167 | | | 512 | 10000 | 7,167 | SY | SEALING OF CONCRETE SURFACES | | \dashv |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | MAINTENANCE OF TRAFFIC | | |
| | | | 472 | | | | | | 472 | | | 61.4 | 11110 | 472 | LIOLID | LANA/ ENIFORCENAENT OFFICER WITH DATROL CAR FOR ACCICTANCE | | |
| | | | 472 | 3,199 | | | | | 472
3,199 | | | 614
614 | 11110
11630 | 472
3,199 | | LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE INCREASED BARRIER DELINEATION | | _ |
| | | | 4 | 12 | | | | | 12 | | | 614 | 12380 | 12 | EACH | WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) | | |
| ıs | | | | 1 | | | | | LS | | | 614
614 | 12400
12420 | LS | EACH | WORK ZONE IMPACT ATTENUATOR, MISC.:48" WIDE HAZARDS, UNIDIRECTIONAL DETOUR SIGNING | P.28 | _ |
| L3 | | | | | | | | | LS | | | 014 | 12420 | LS | | DETOOK SIGNING | | |
| | 12 | | | | | | | | 12 | | | 614 | 12484 | 12 | | WORK ZONE INCREASED PENALTIES SIGN | | |
| 10 | 20 | | | | | | | | 10
20 | | | 614
614 | 12500
12600 | 10
20 | | REPLACEMENT SIGN REPLACEMENT DRUM | | |
| | | | | 1,850 | | | | | 1,850 | | | 614 | 12801 | 1,850 | EACH | WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN | P.28 | |
| | 667 | | | | | | | | 667 | | | 614 | 13000 | 667 | CY | ASPHALT CONCRETE FOR MAINTAINING TRAFFIC | | |
| | | | ^ / | 283 | \ | | ~~~~~ | \ | 283 | | | 614 | 13310 | 283 | EACH | BARRIER REFLECTOR, TYPE 1 (ONE-WAY) | | $\overline{}$ |
| | | | [4] | 346 | | | | | 346 | | | 614 | 13350 | 346 | EACH | OBJECT MARKER, ONE WAY | | |
| 8.15 | | 80 | | | | | | | 80 | 1 | | 614
614 | 18601
20010 | 80
8.15 | | PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN WORK ZONE LANE LINE, CLASS I, 6" | P.26 | |
| 0.13 | | | | 4.37 | | | | | 4.37 | | | 614 | 20056 | 4.37 | | WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT | | |
| 0.24 | | | | | | | _ | | 0.24 | | | 61.4 | 22010 | 0.24 | N 411 E | WORK ZONE EDGE LINE GLACCI. CII | | |
| 9.24 | | | | 9.79 | | | + | | 9.24
9.79 | | | 614
614 | 22010
22056 | 9.24
9.79 | | WORK ZONE EDGE LINE, CLASS I, 6" WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT | | |
| 3,646 | | | | | | | | | 3,646 | | | 614 | 23010 | 3,646 | FT | WORK ZONE CHANNELIZING LINE, CLASS I, 12" | | |
| 508 | | | | 20,020 | | | | | 20,020
508 | | | 614
614 | 23110
24000 | 20,020
508 | | WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT WORK ZONE DOTTED LINE, CLASS I, 6" | | _ |
| 308 | | | | | | | | | 308 | | | 014 | 24000 | 308 | 11 | WORK ZONE DOTTED LINE, CLASS 1, 0 | | |
| | | | | 4,200 | | | | | 4,200 | | | 614 | 24102 | 4,200 | FT
 | WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT | | |
| 20 | | | | 537
20 | + | + | + | | 537
40 | | | 614
614 | 28000
30000 | 537
40 | FT
EACH | WORK ZONE GORE MARKING, CLASS II WORK ZONE ARROW, CLASS I | | |
| | | | ~~~~ | 2 | | | | | 2 | | | 614 | 30001 | 2 | EACH | WORK ZONE ARROW, CLASS I, AS PER PLAN | P.28 | 口 |
| /4\ | LS | | | | \ | | | | LS | | | 615 | 10000 | LS | | ROADS FOR MAINTAINING TRAFFIC | - | \dashv |
| | + | | ^ | 864 | | 1 | 1 | | 864 | 1 | | 615 | 20000 | 864 | SY | PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A | | \dashv |
| | | | /3 | (17,340 | | \ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | 17,340 | | | 622 | 41100 | 17,340 | FT | PORTABLE BARRIER, UNANCHORED | | 口 |
| | 72 | | | | 1 | 1 | - | | 72 | - | | 808 | 18700 | 72 | SNMT | DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY | | \dashv |
| | | | | | | | | | <u> </u> | | | | | | | INCIDENTALS | | |
| | | | | | | | | | | | | | | | | | | \dashv |
| | | | | | | 1 | - | | LS
LS | 1 | | 108
614 | 10000
11000 | LS
LS | | CPM PROGRESS SCHEDULE MAINTAINING TRAFFIC FIELD OFFICE, TYPE C NO. RFI DESCRIPTION REV. BY P1R3 . REVISE COFFERDAM ITEM TAZ 03 P1R3 . REVISE PCB, U.A. QTY. TAZ 03 | 74 1 E
717/25 | <u></u> |
| | | | | | | | | | 24 | | | 619 | 16020 | 24 | MNTH | | /28/25
/15/25 | |
| | | | | . <u> </u> | | | | | LS | | | 623 | 10000 | LS | | CONSTRUCTION LAYOUT STAKES AND SURVEYING PIR4 REVISE FENCING QTY. TAZ 04 MOBILIZATION | | |

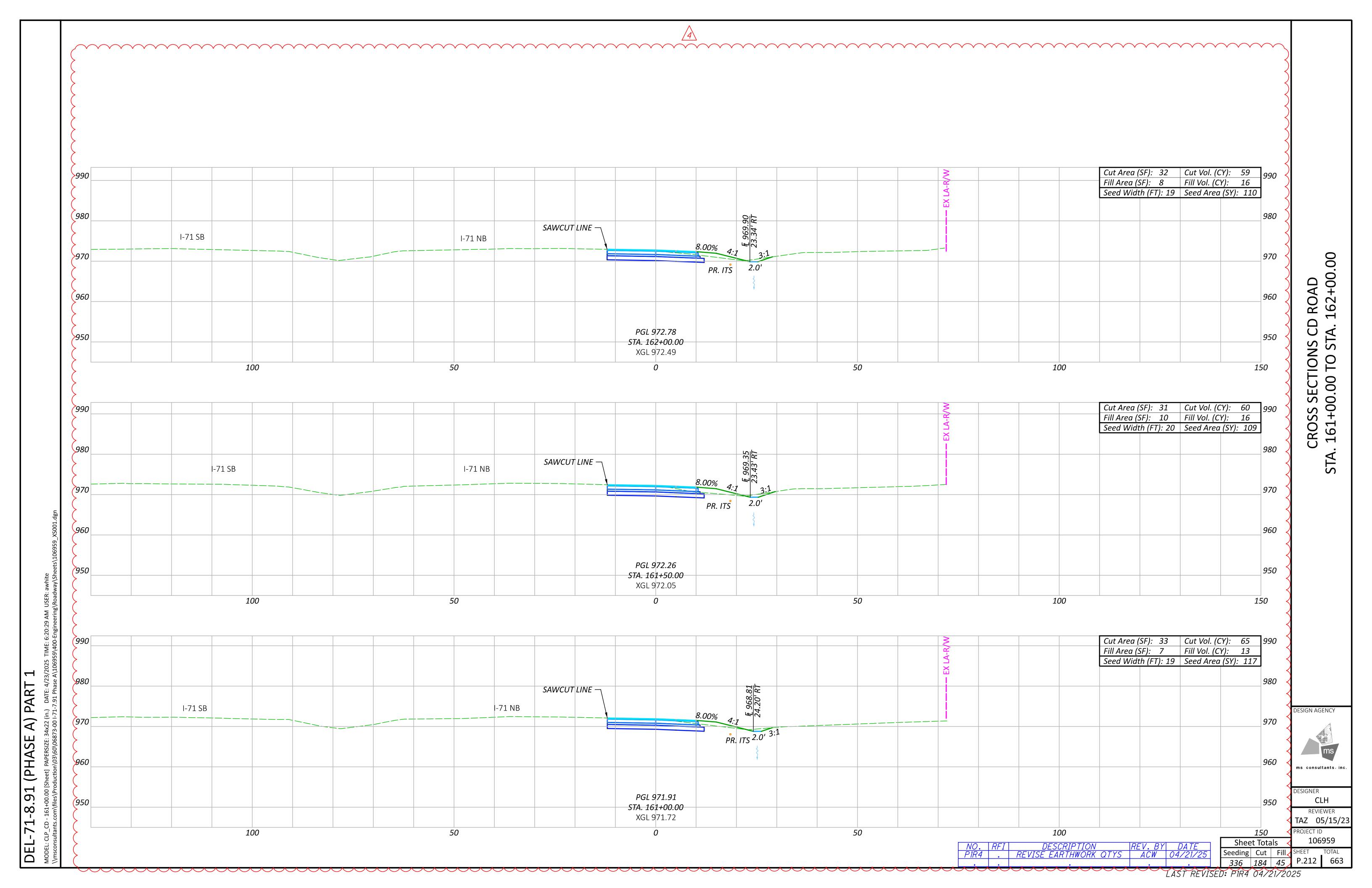


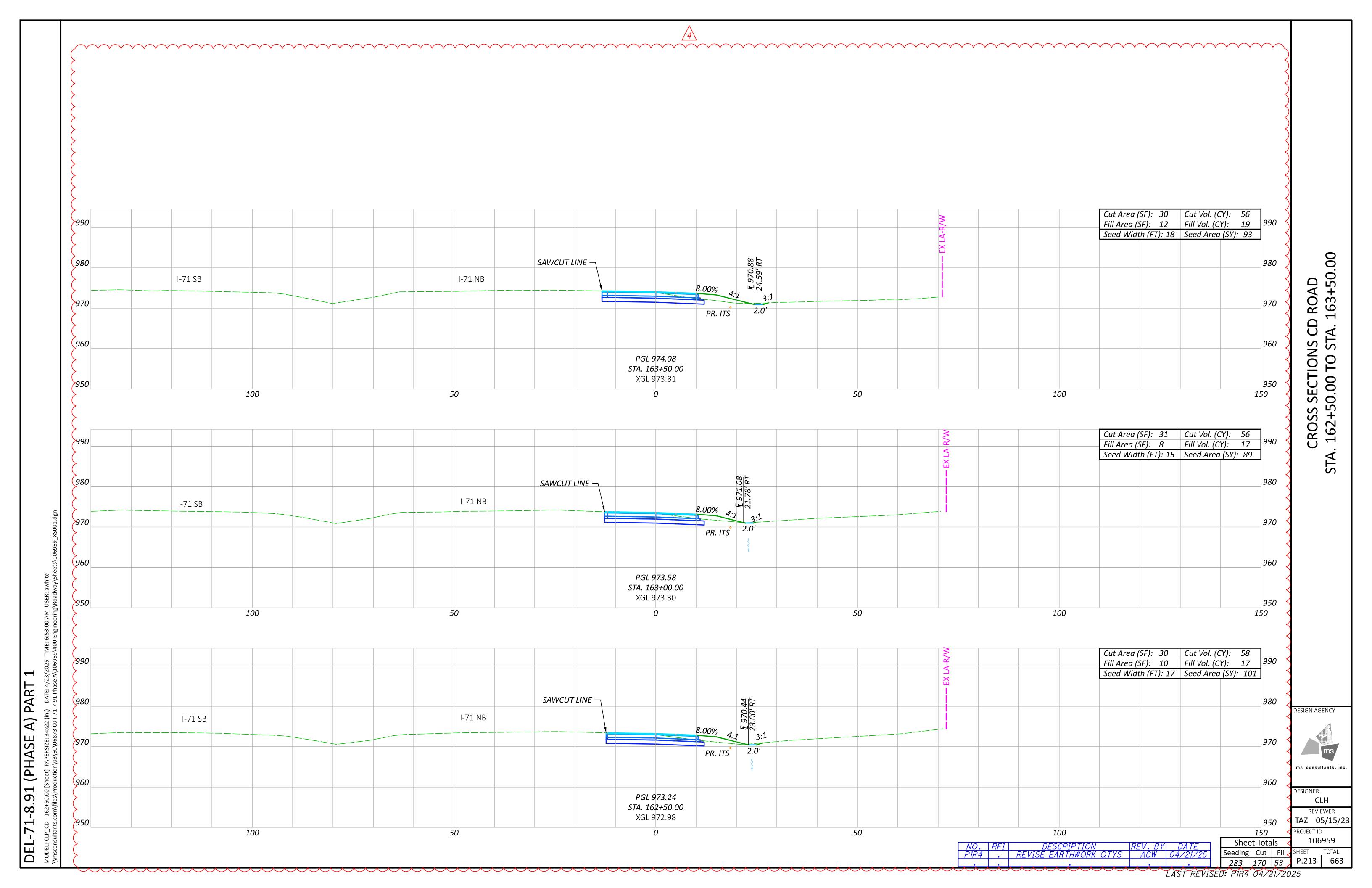


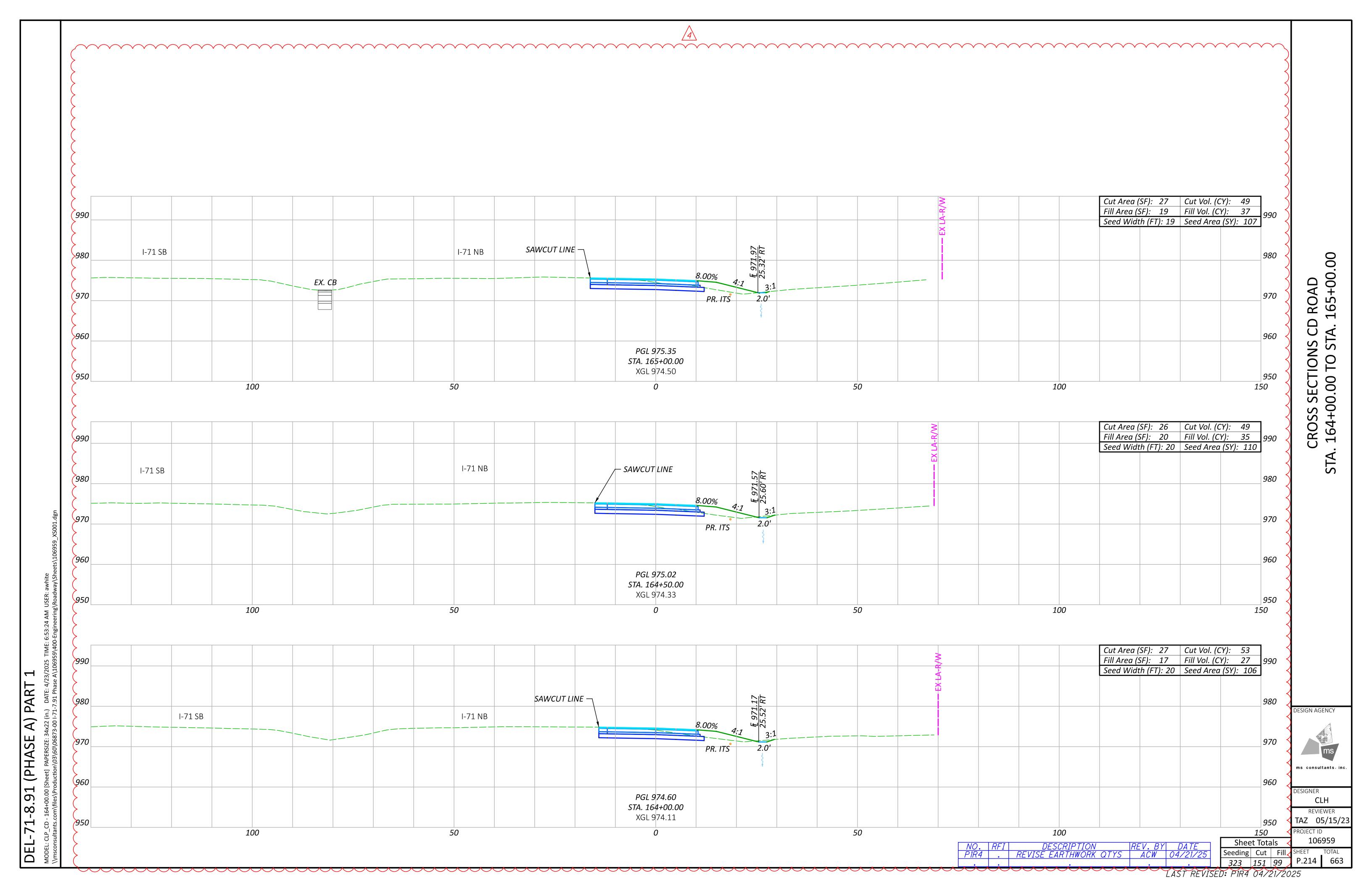


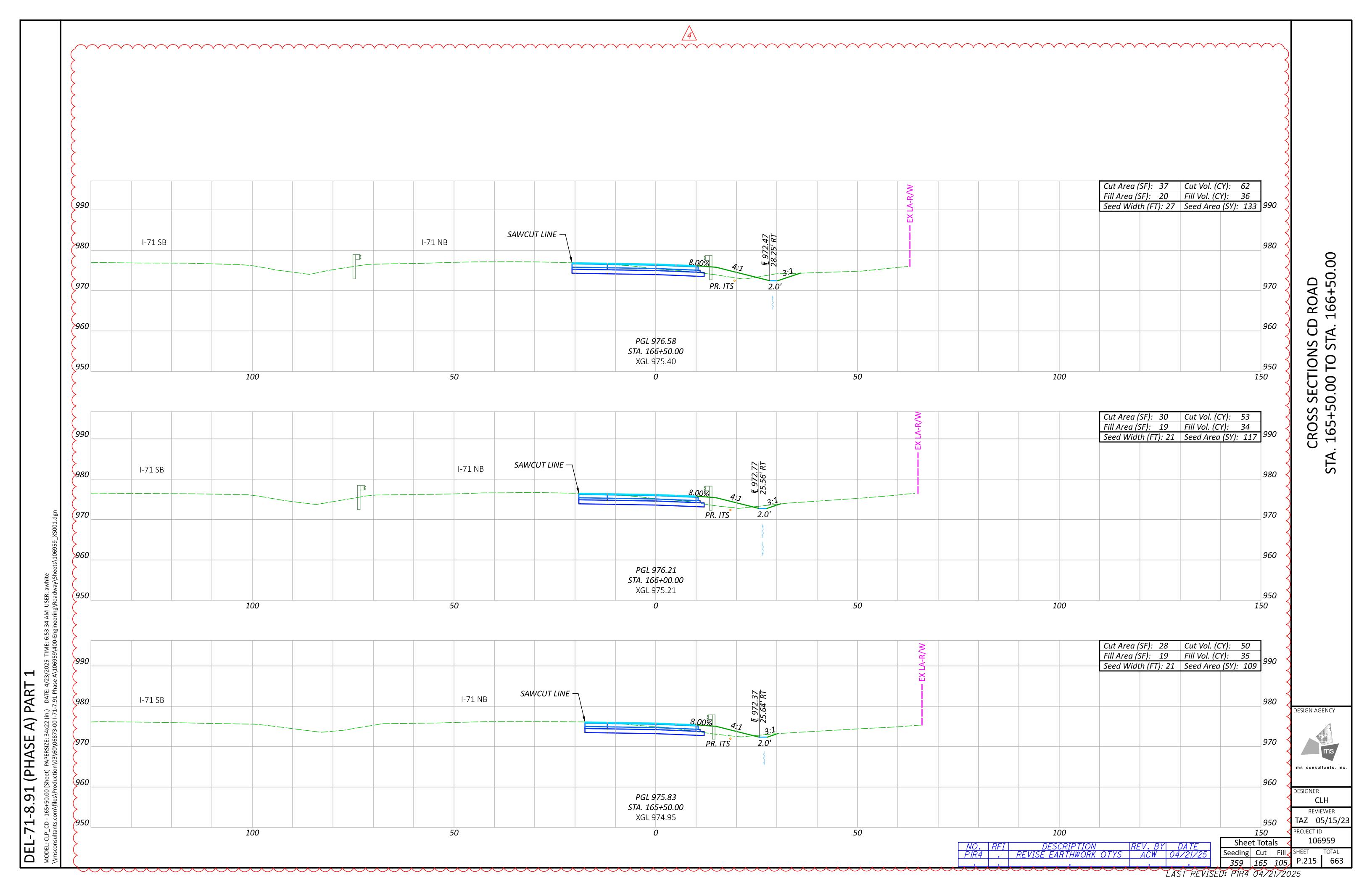


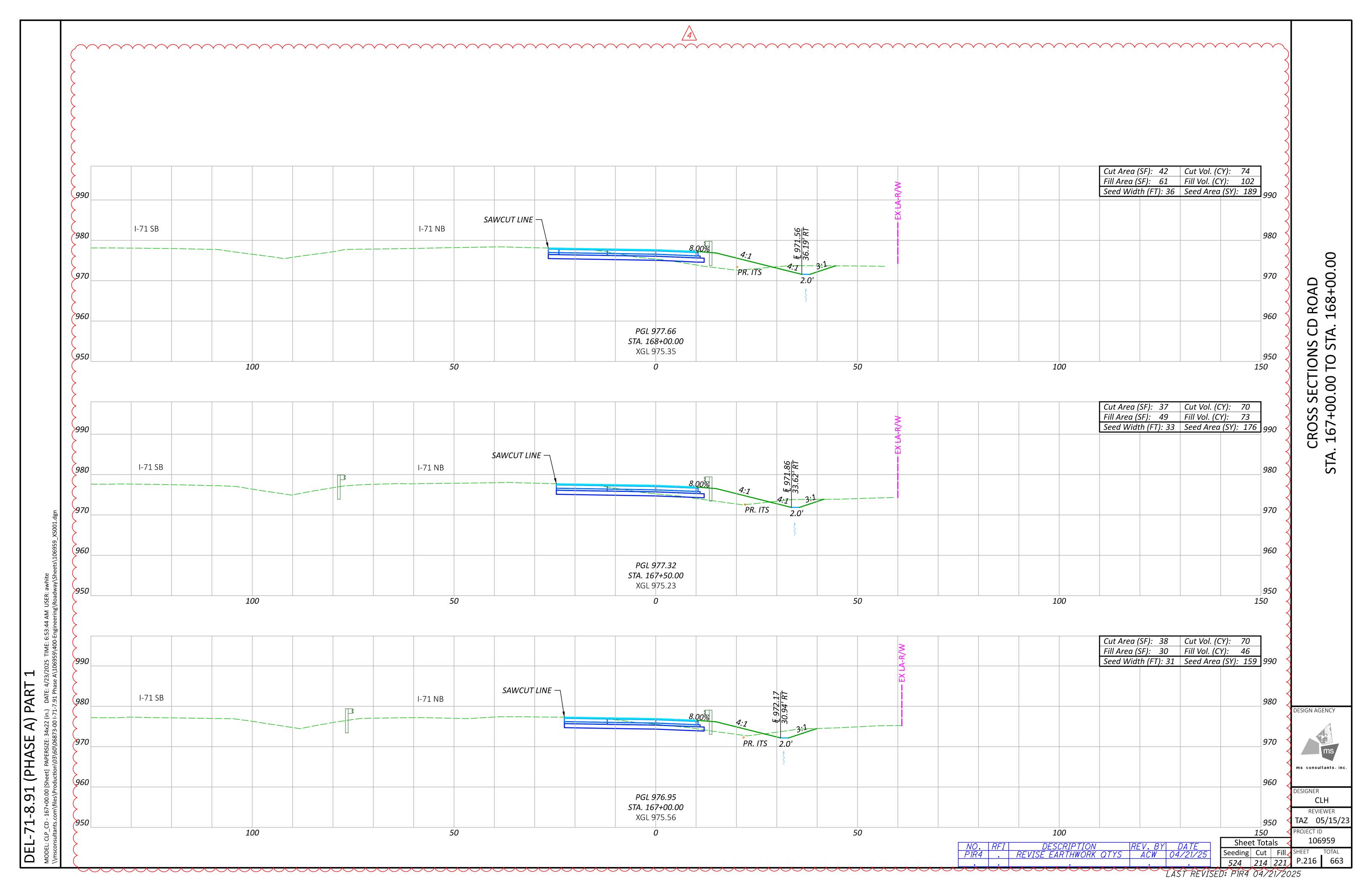


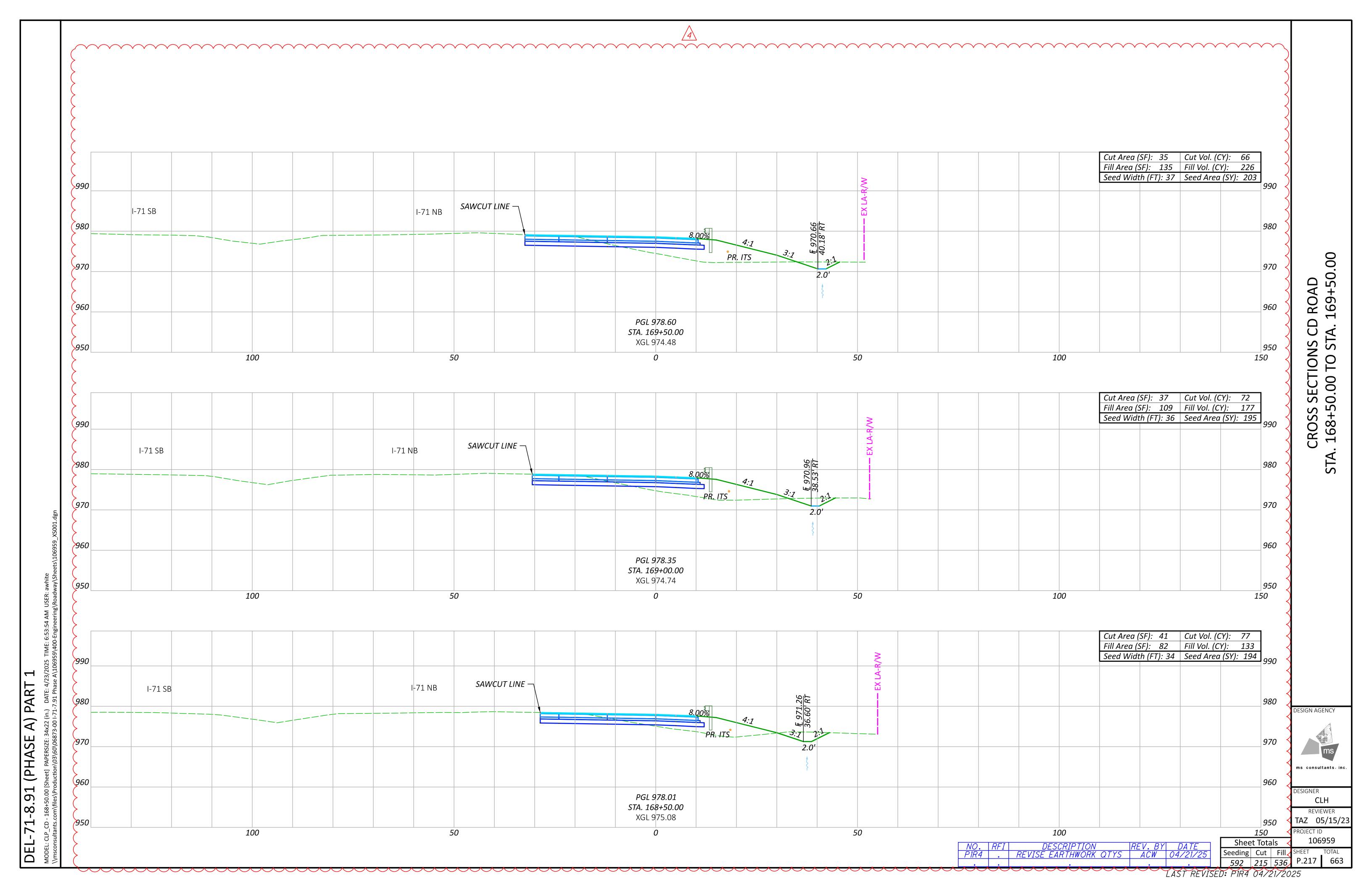


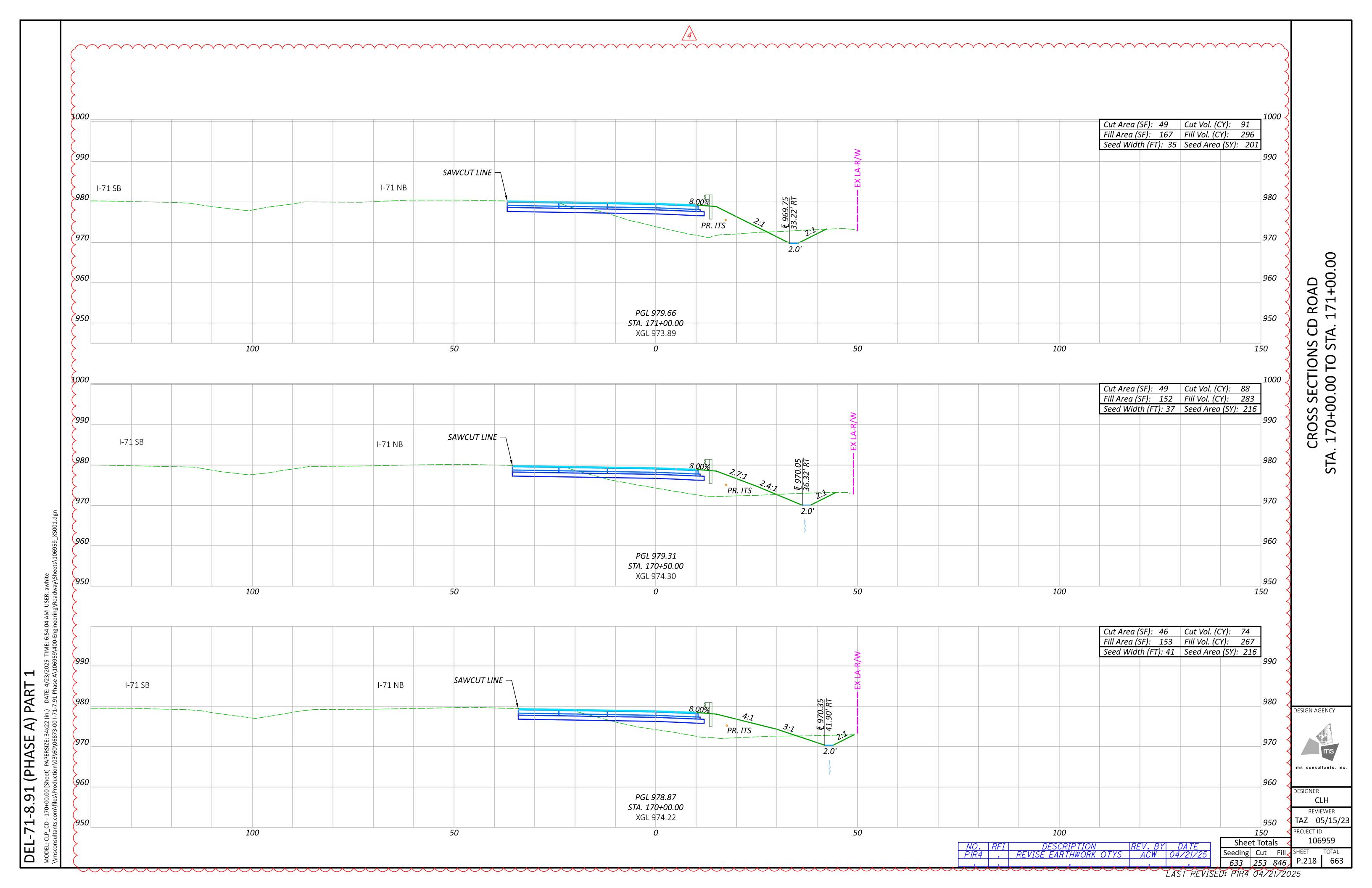


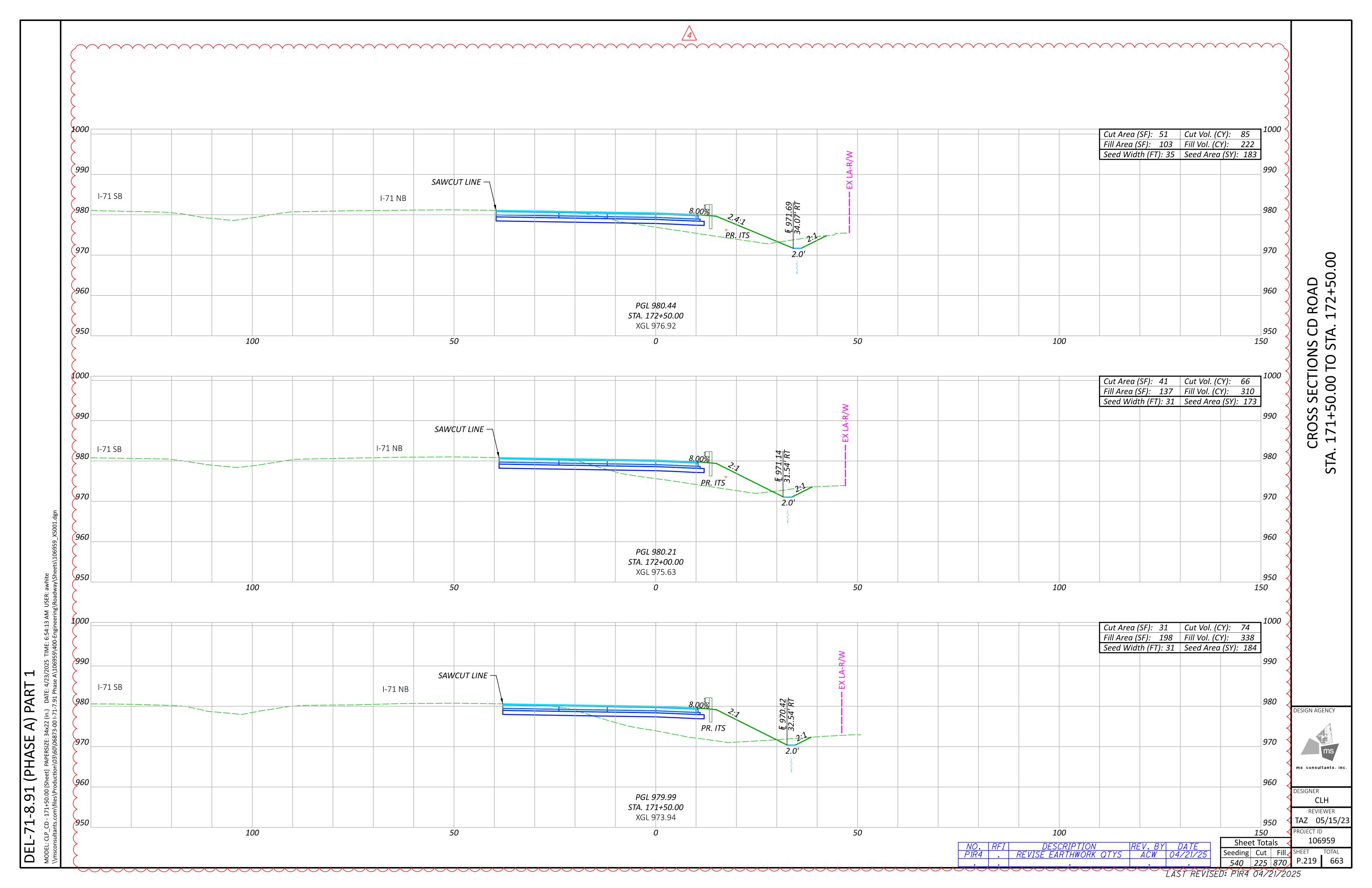


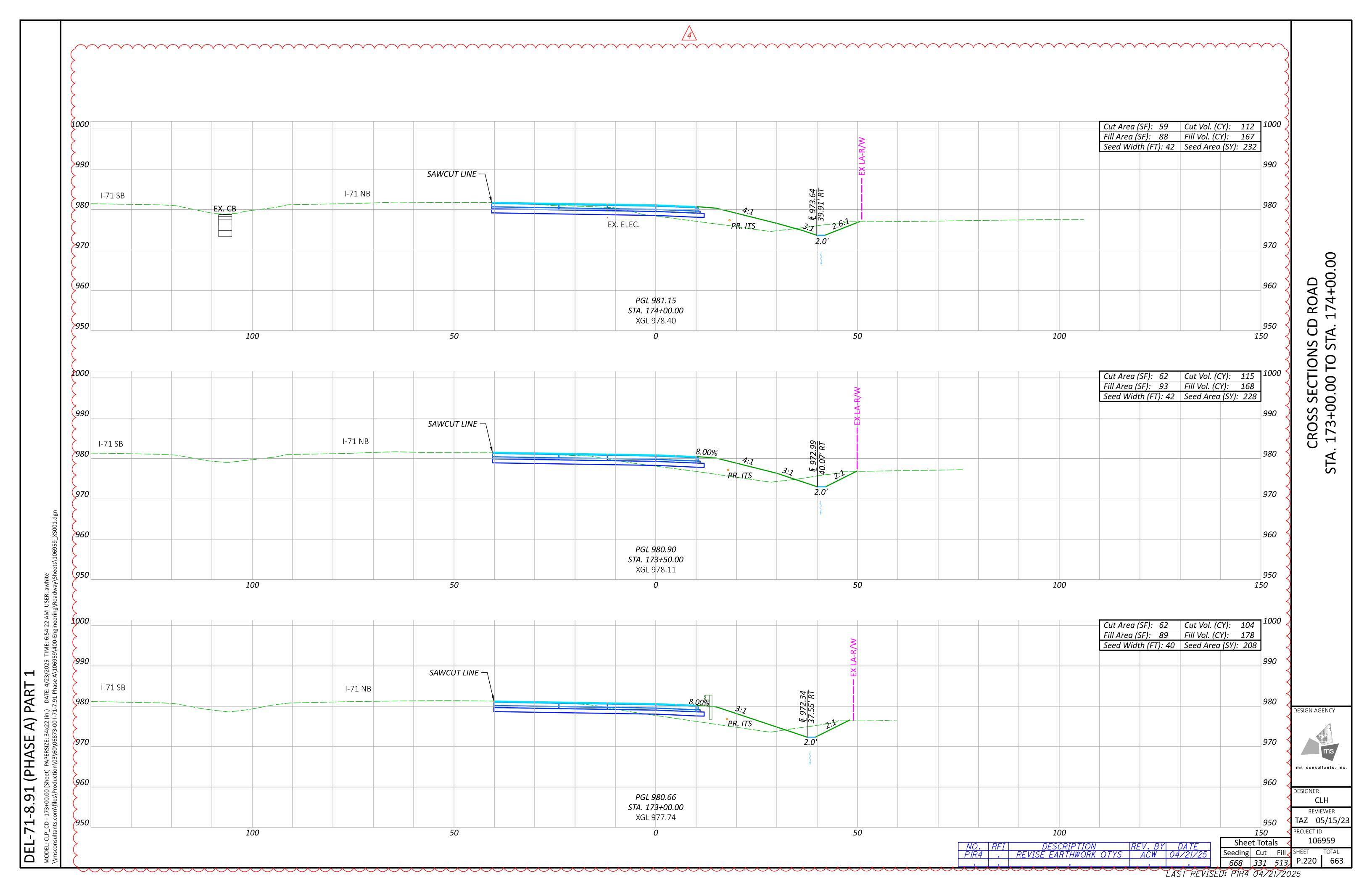


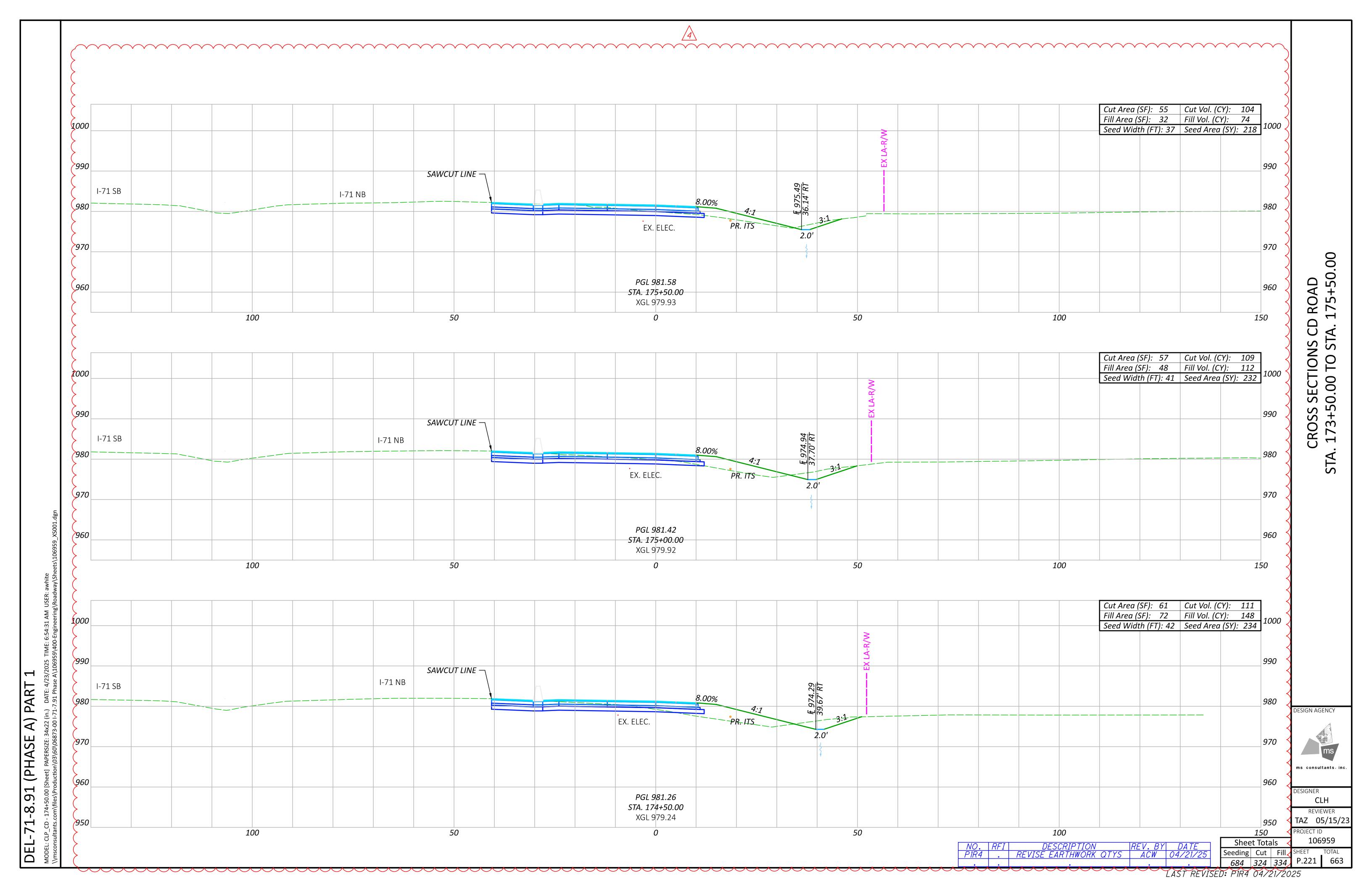


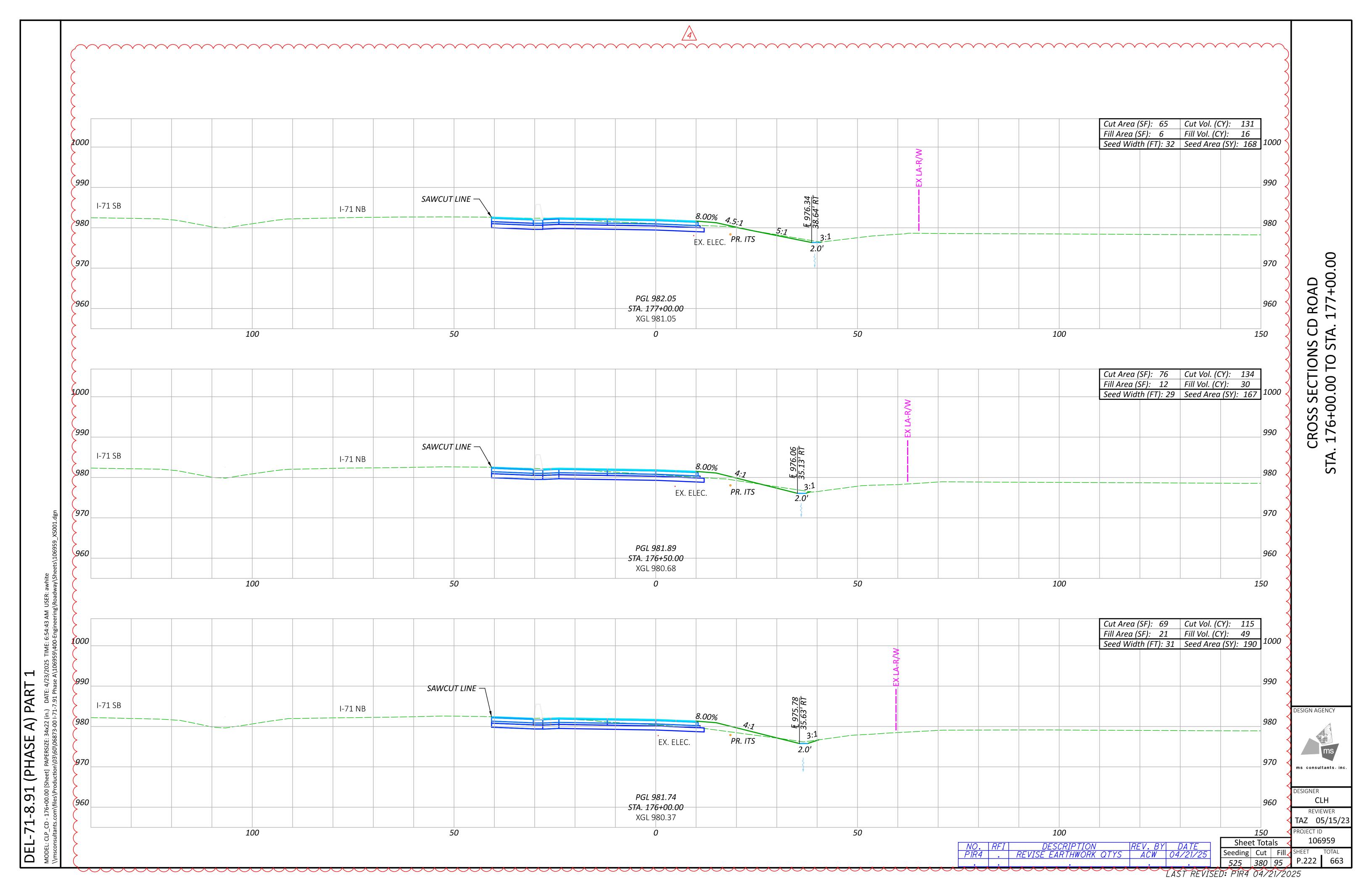


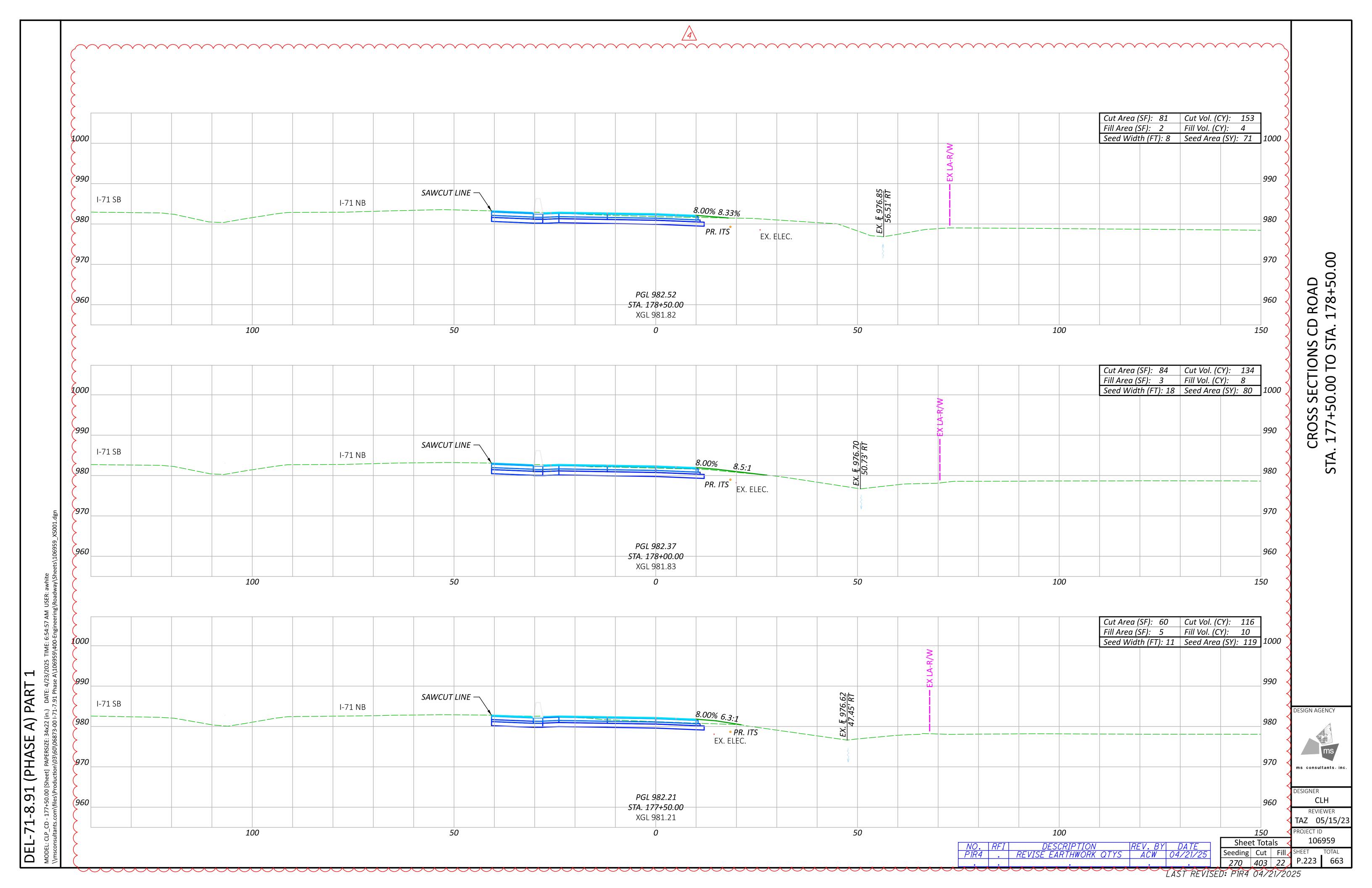


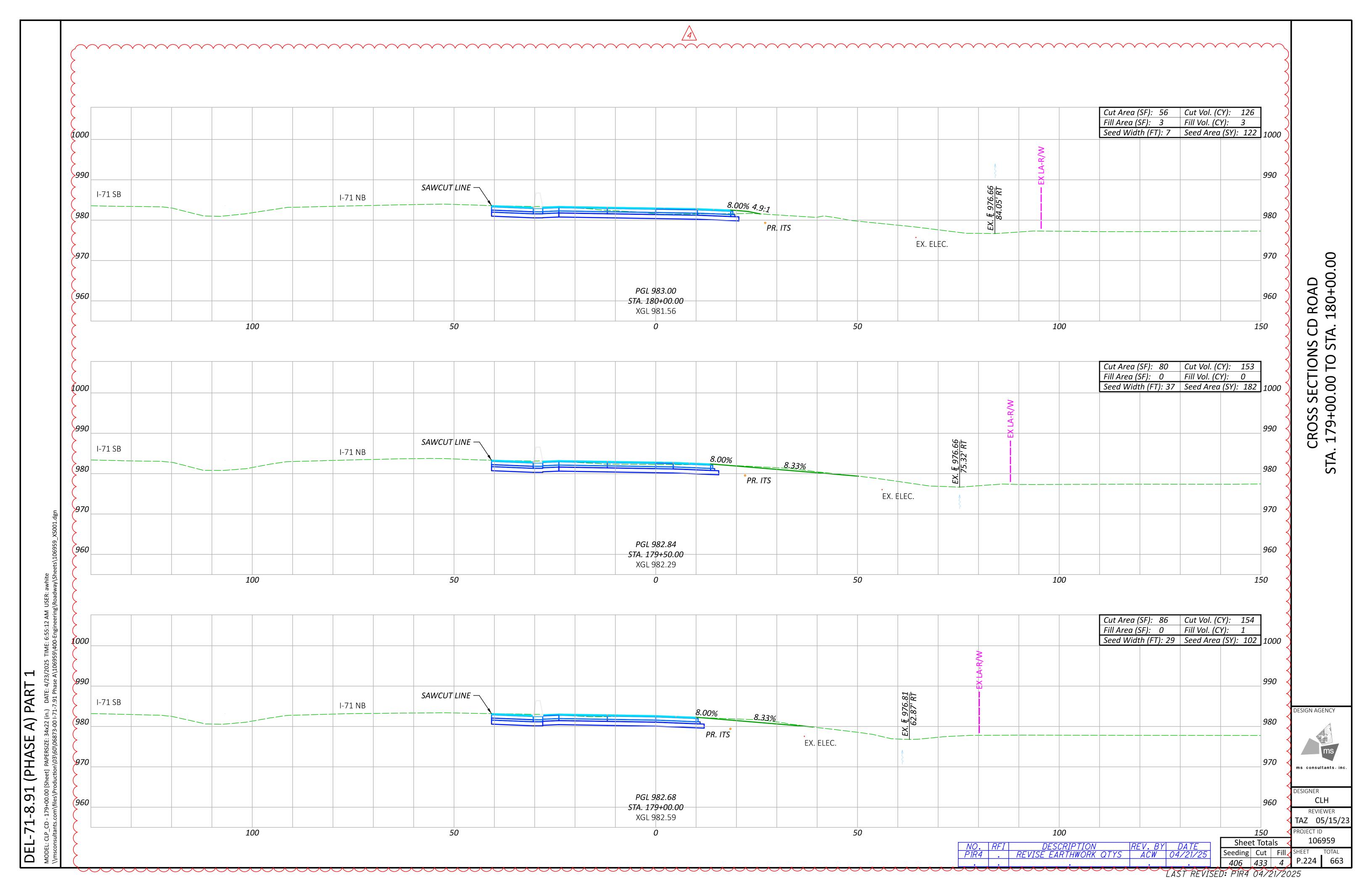


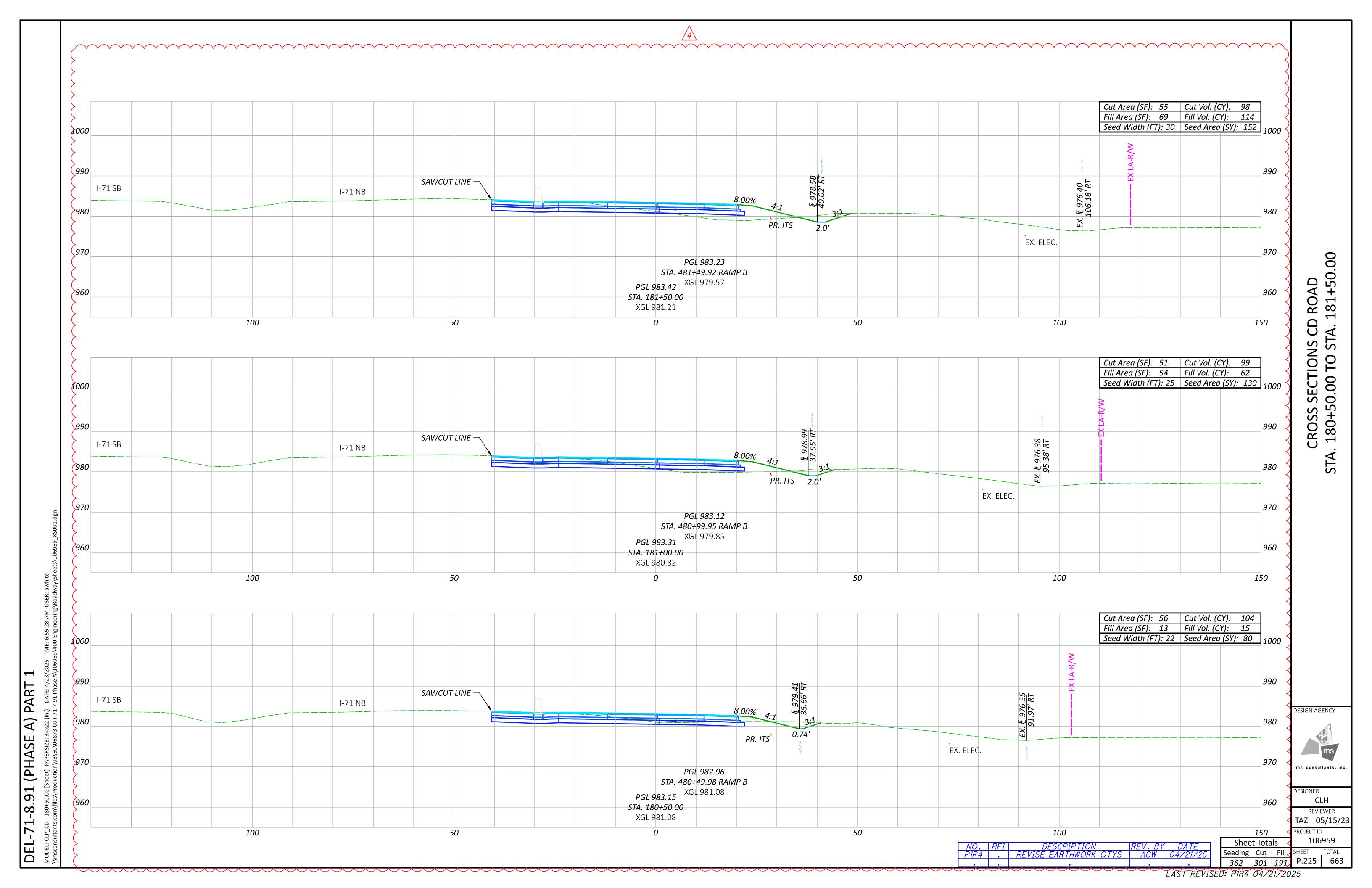


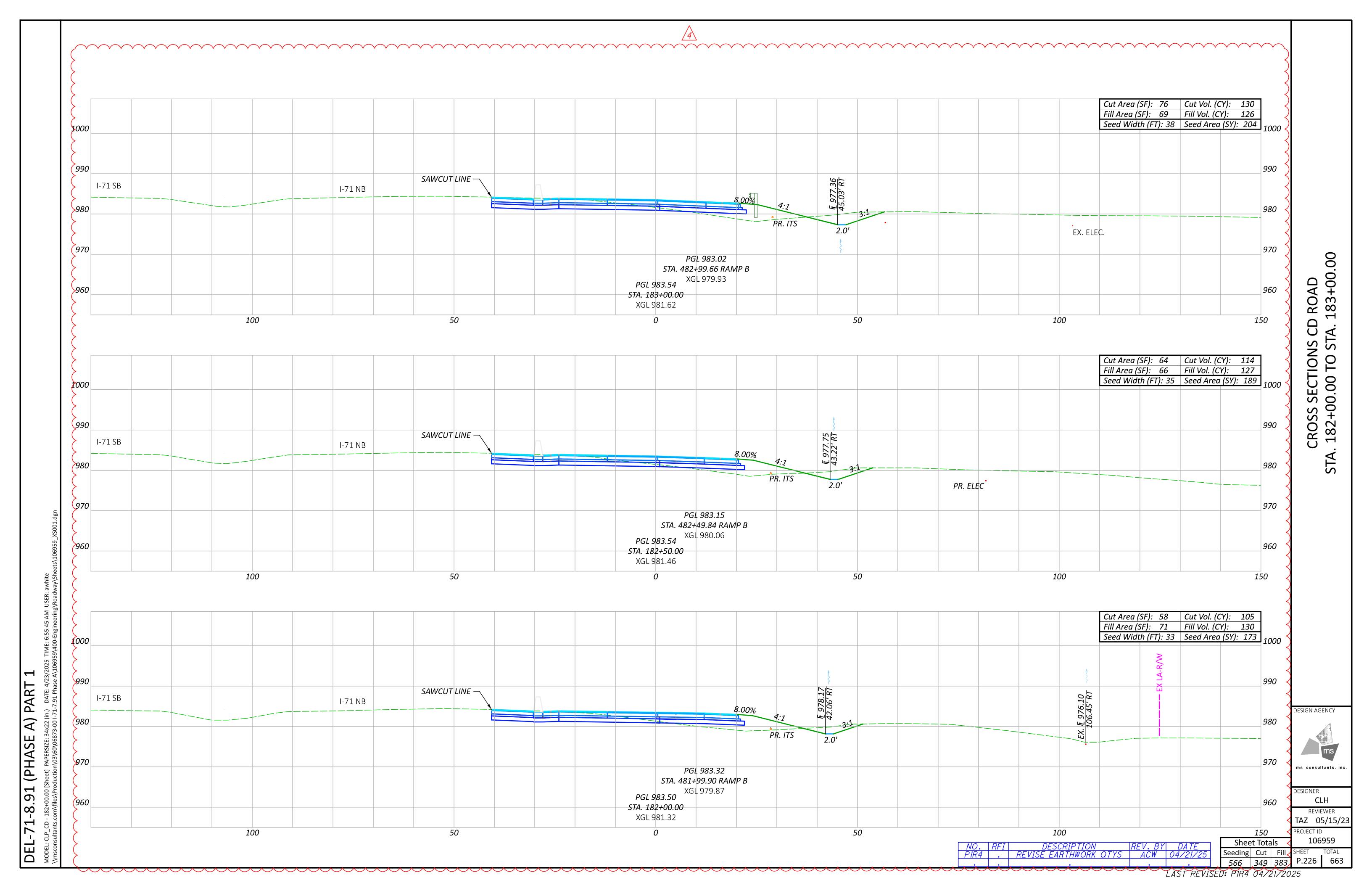


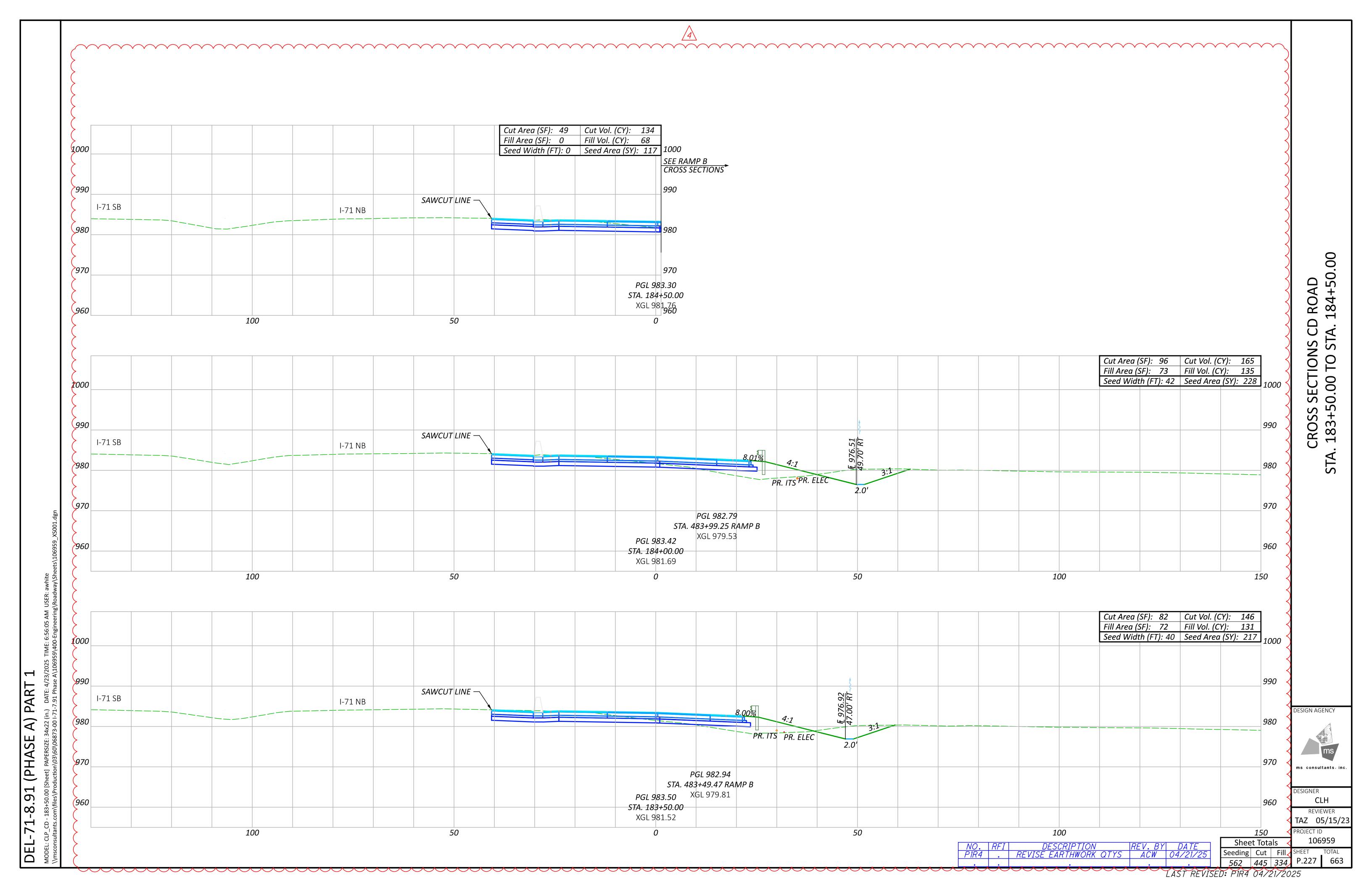


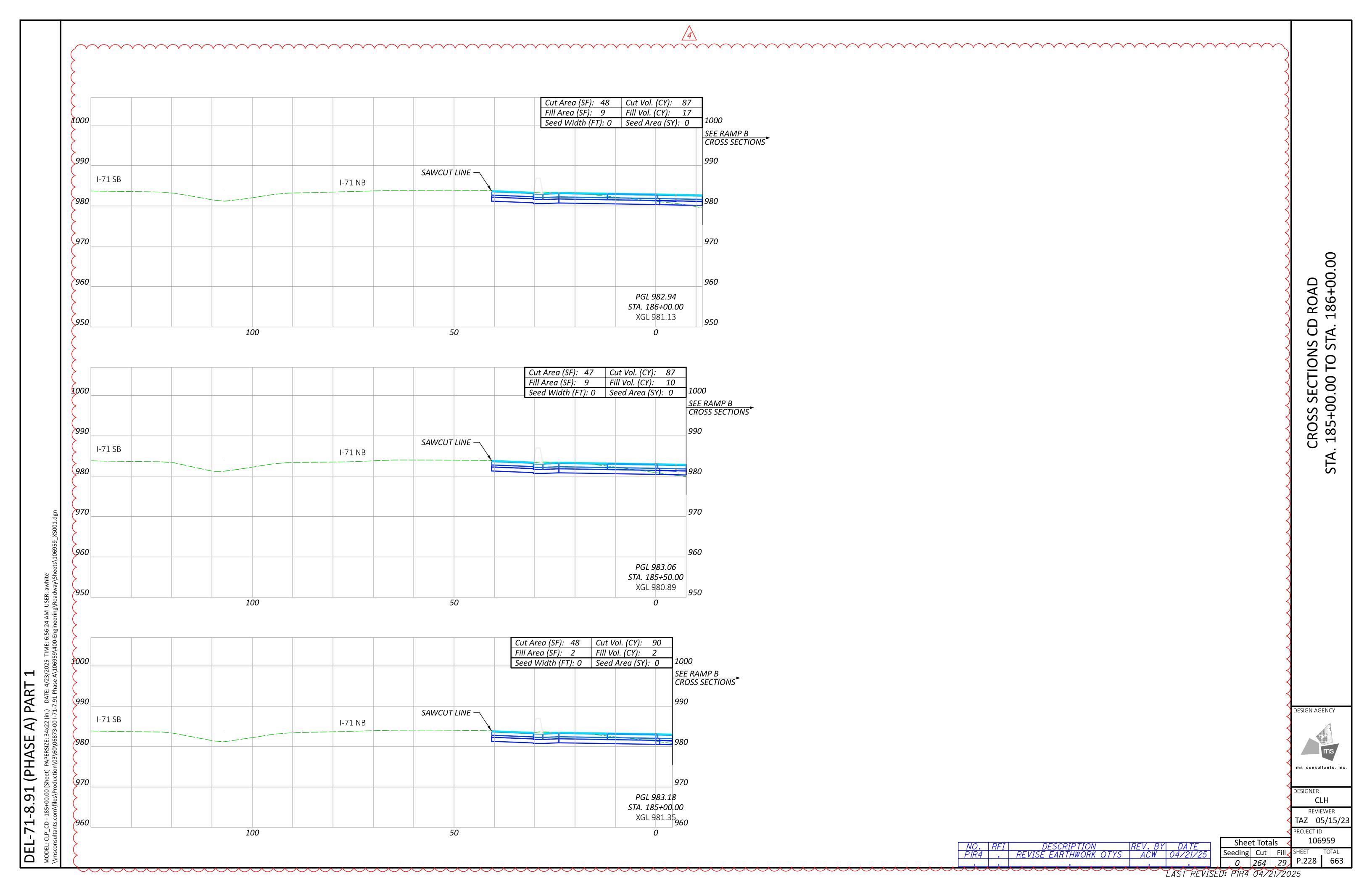


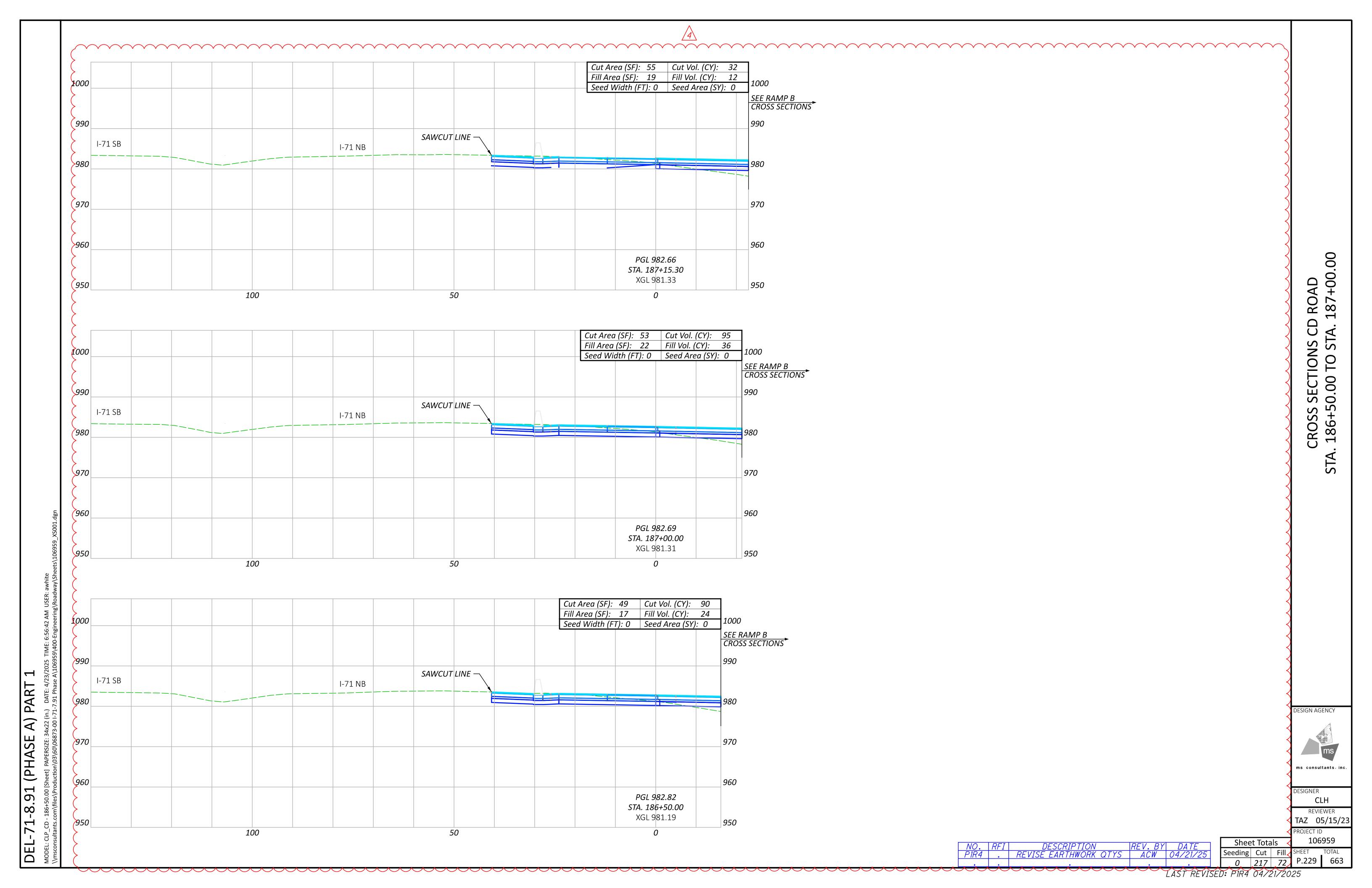


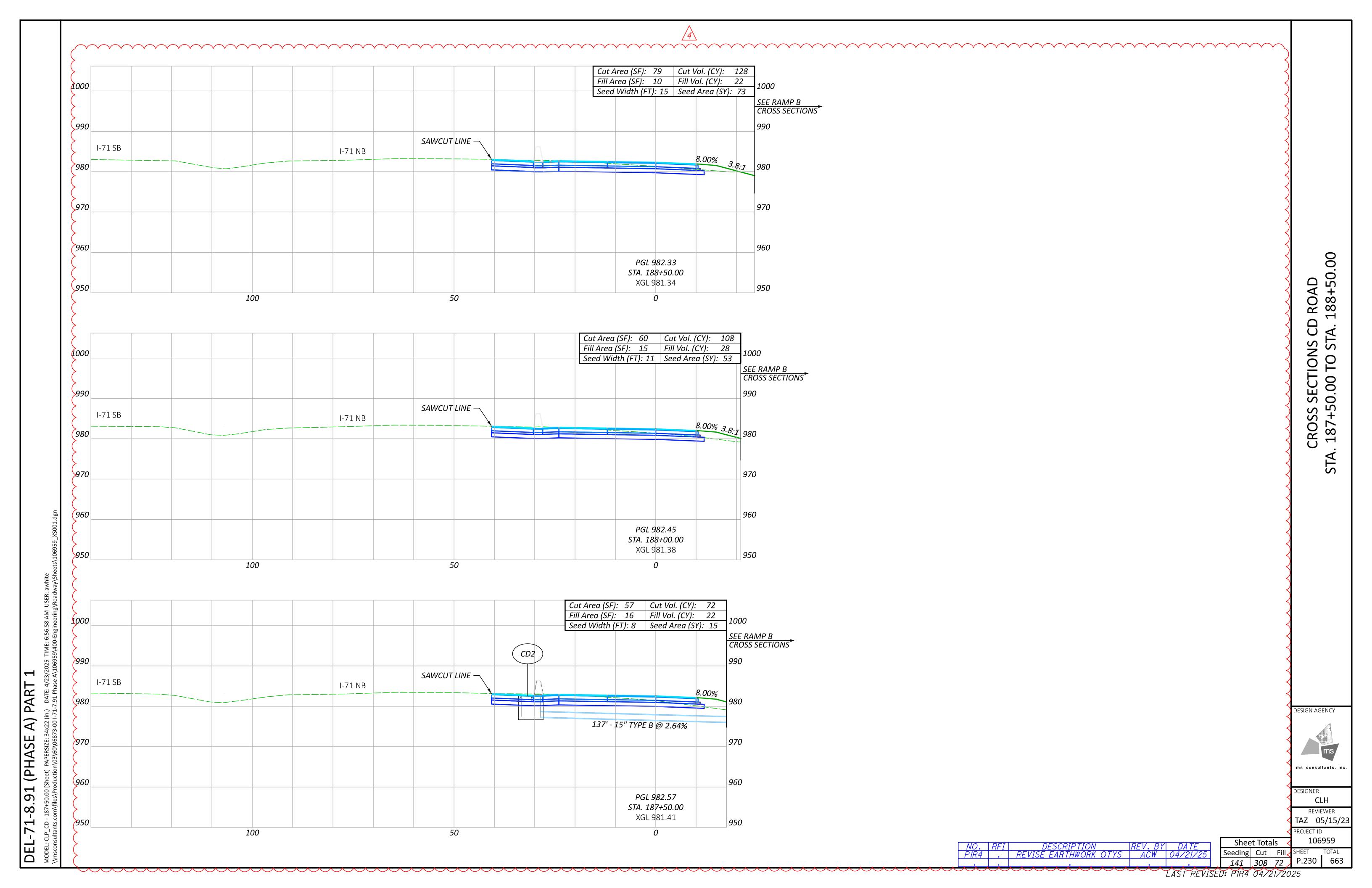


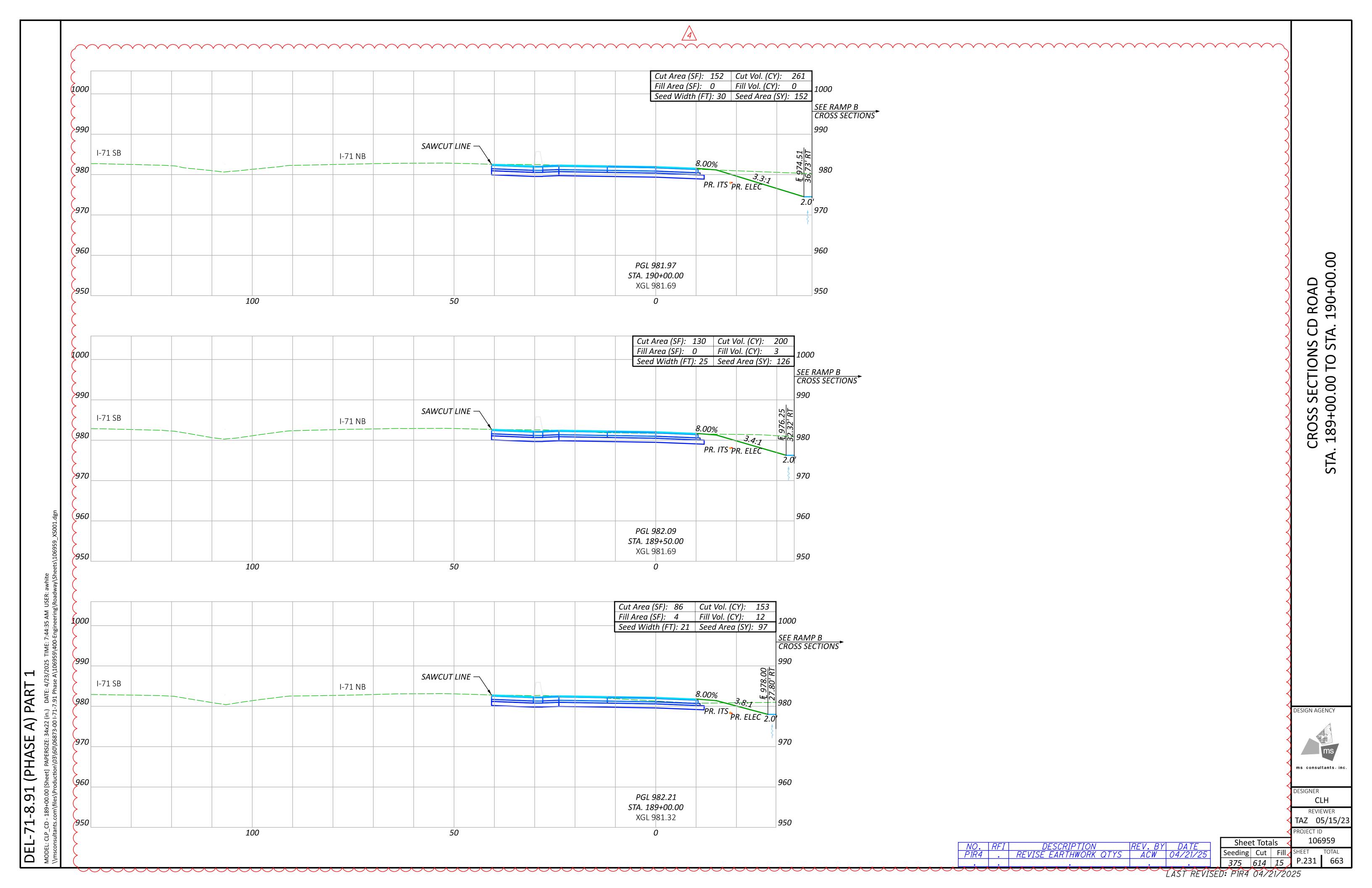


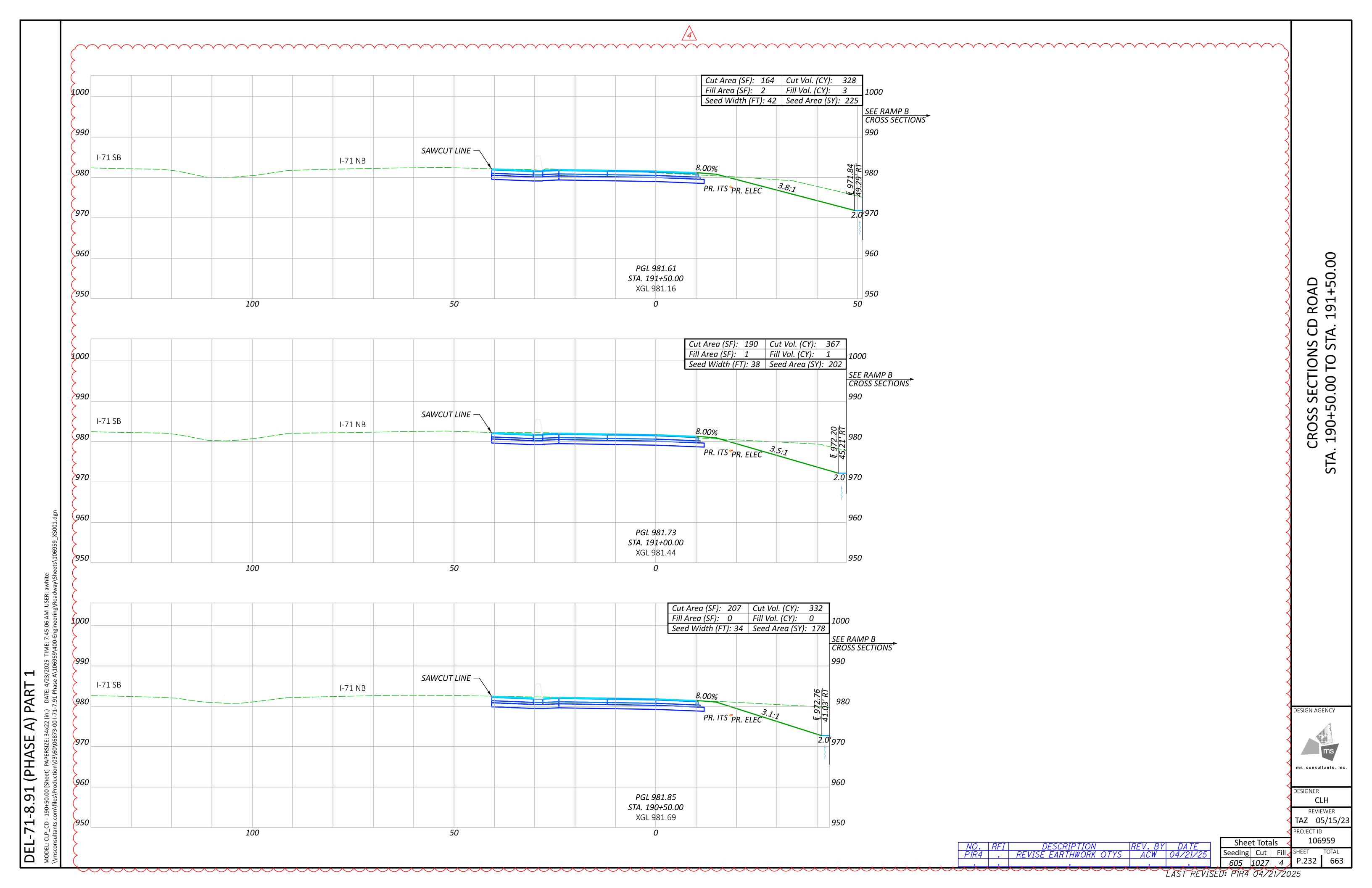


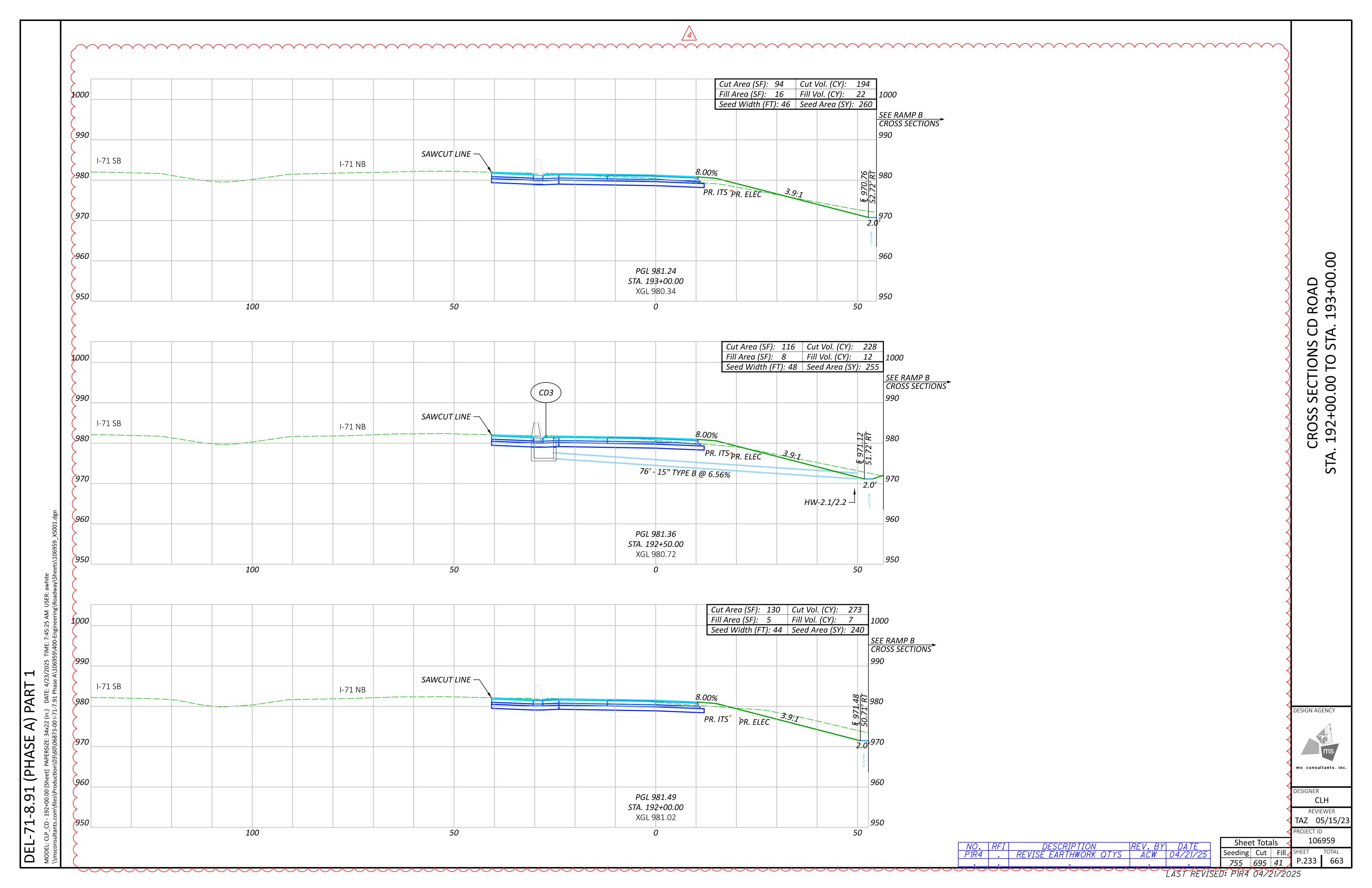


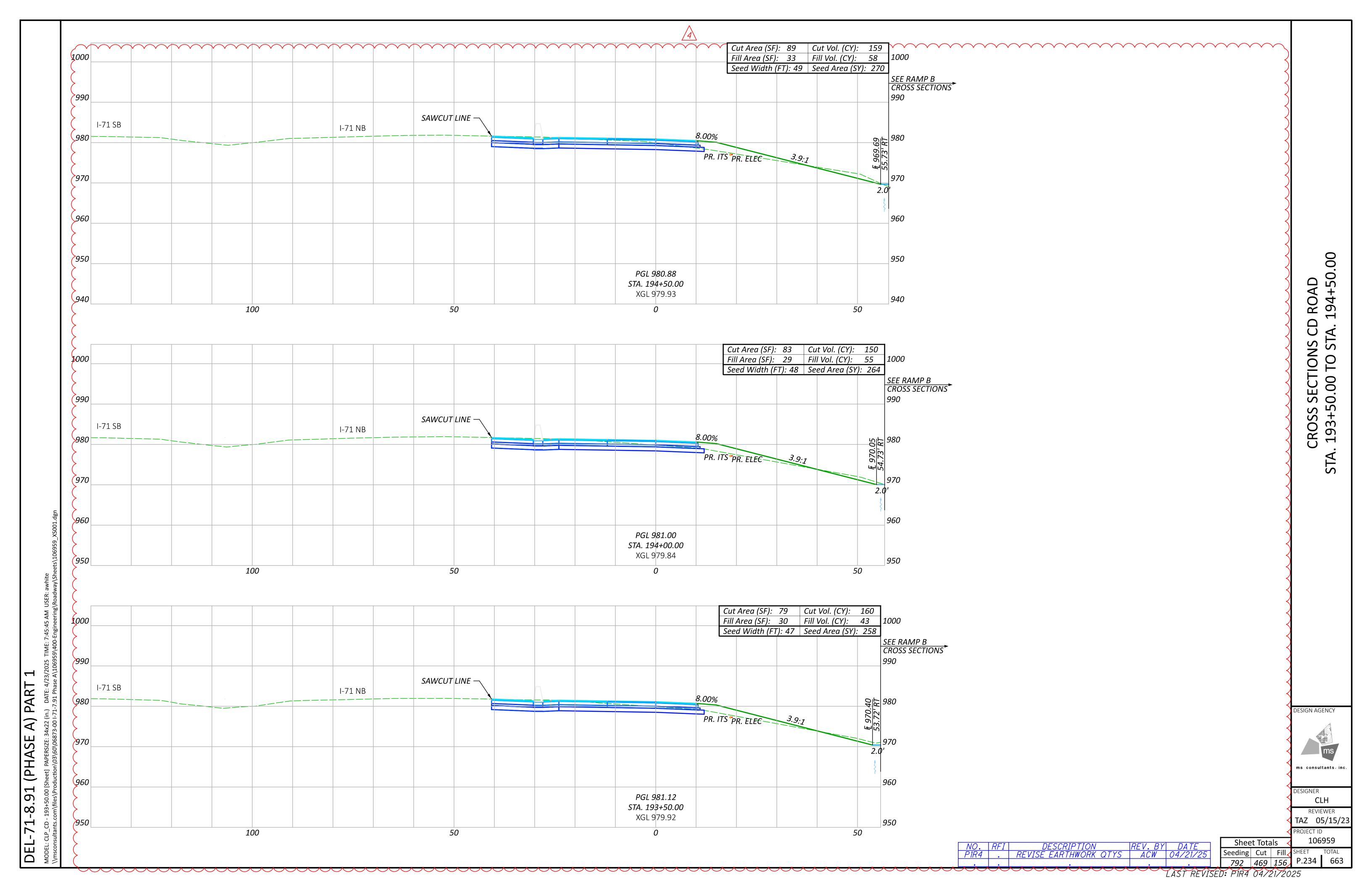


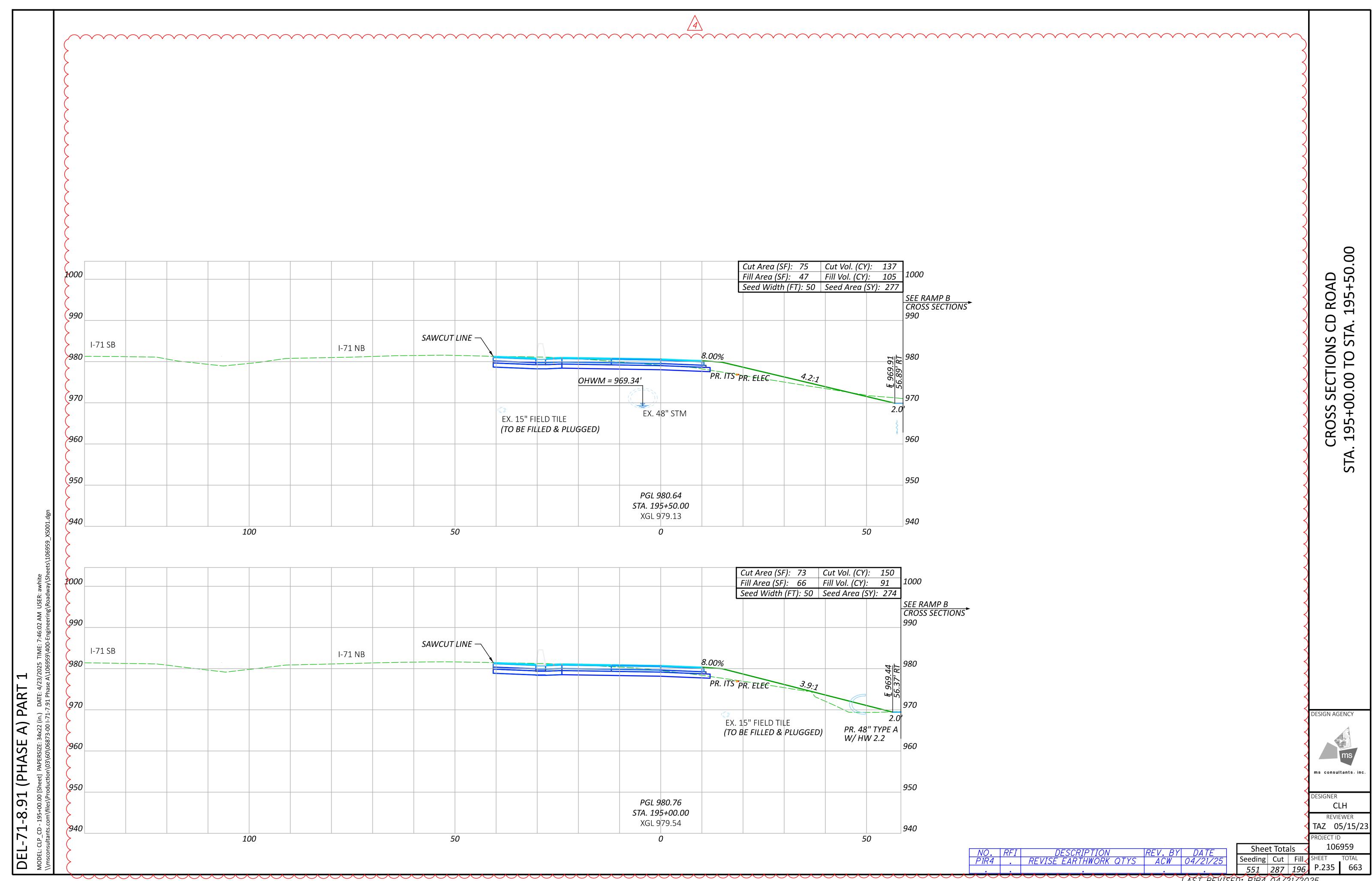




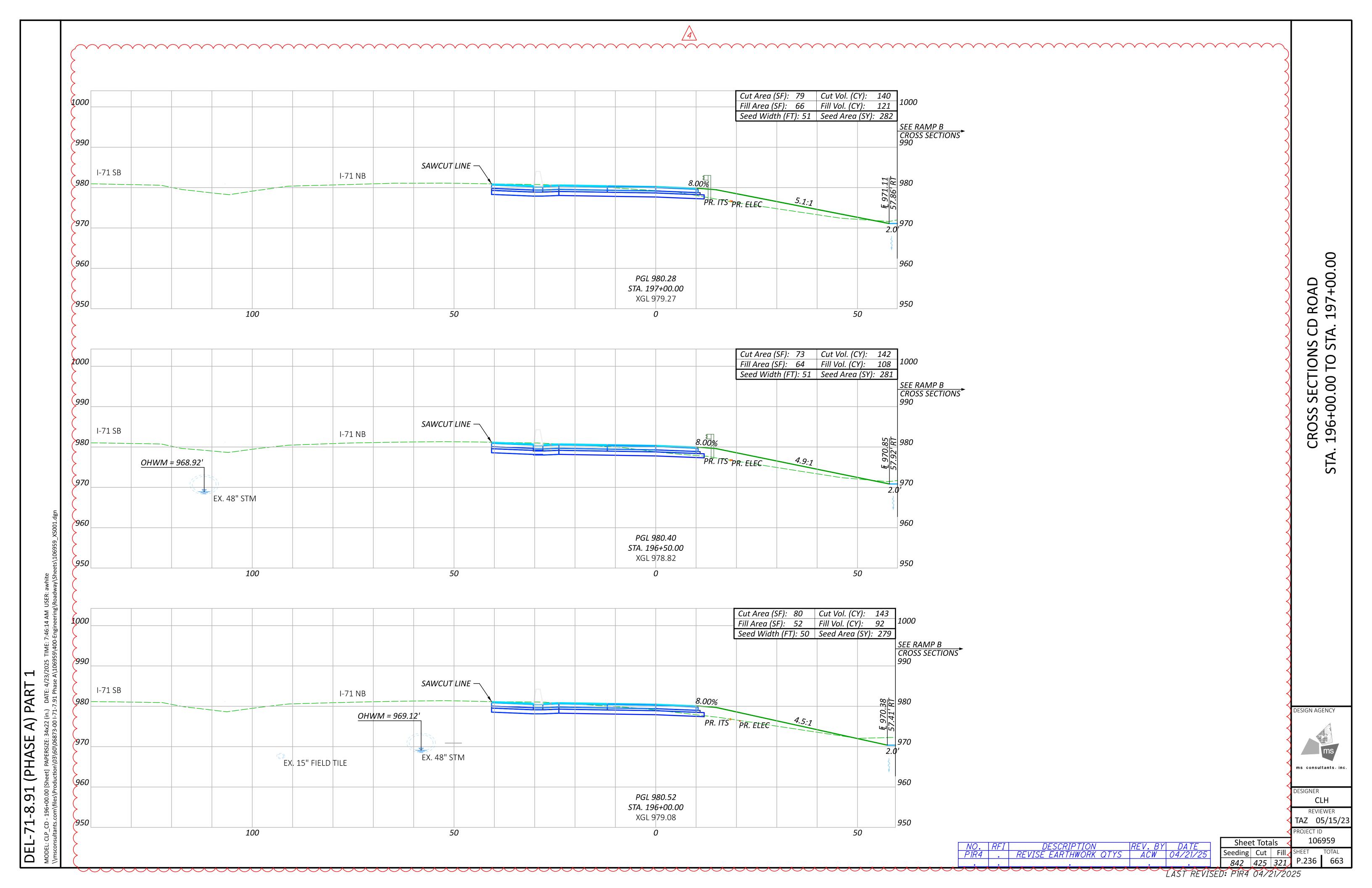


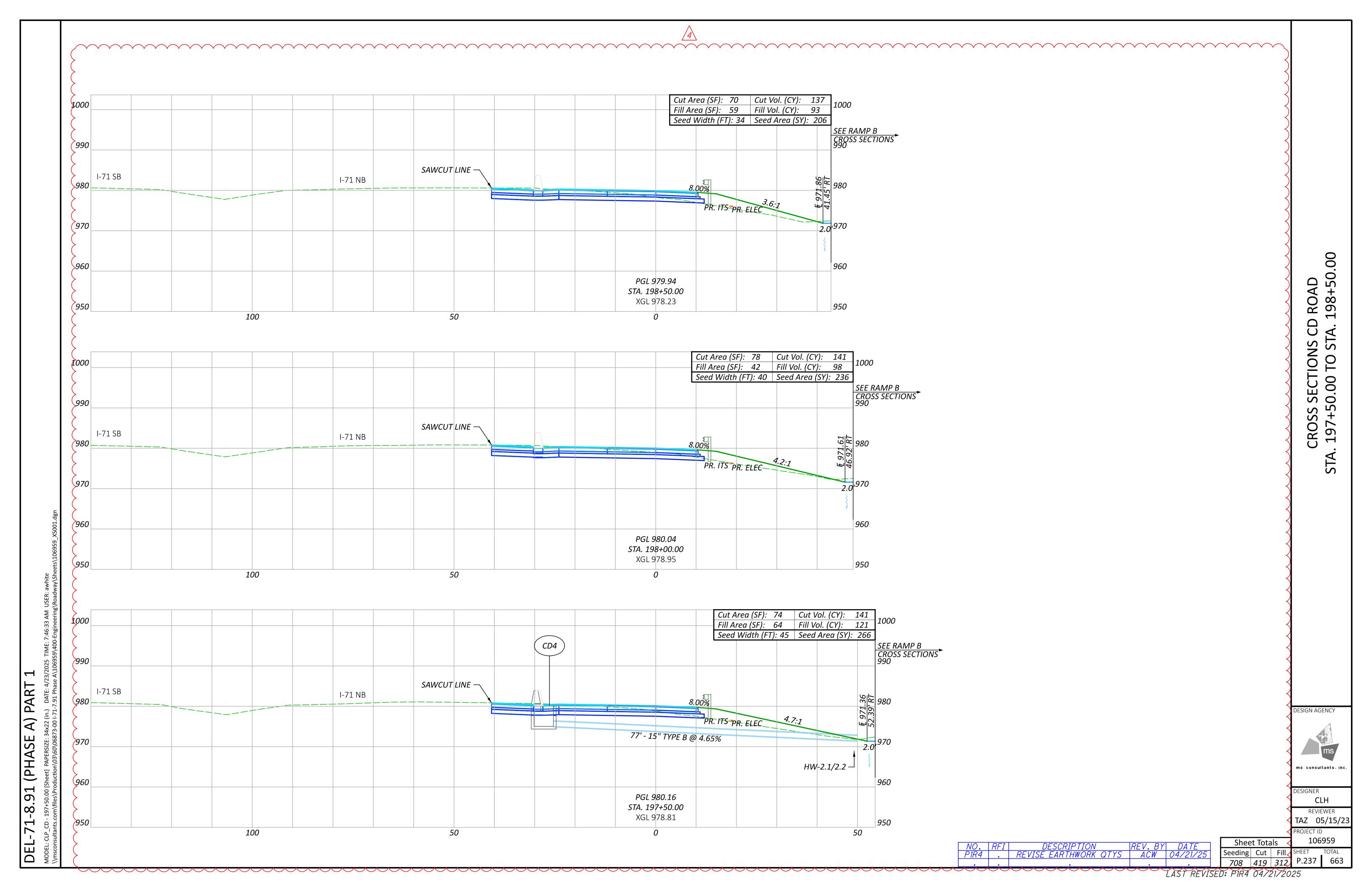


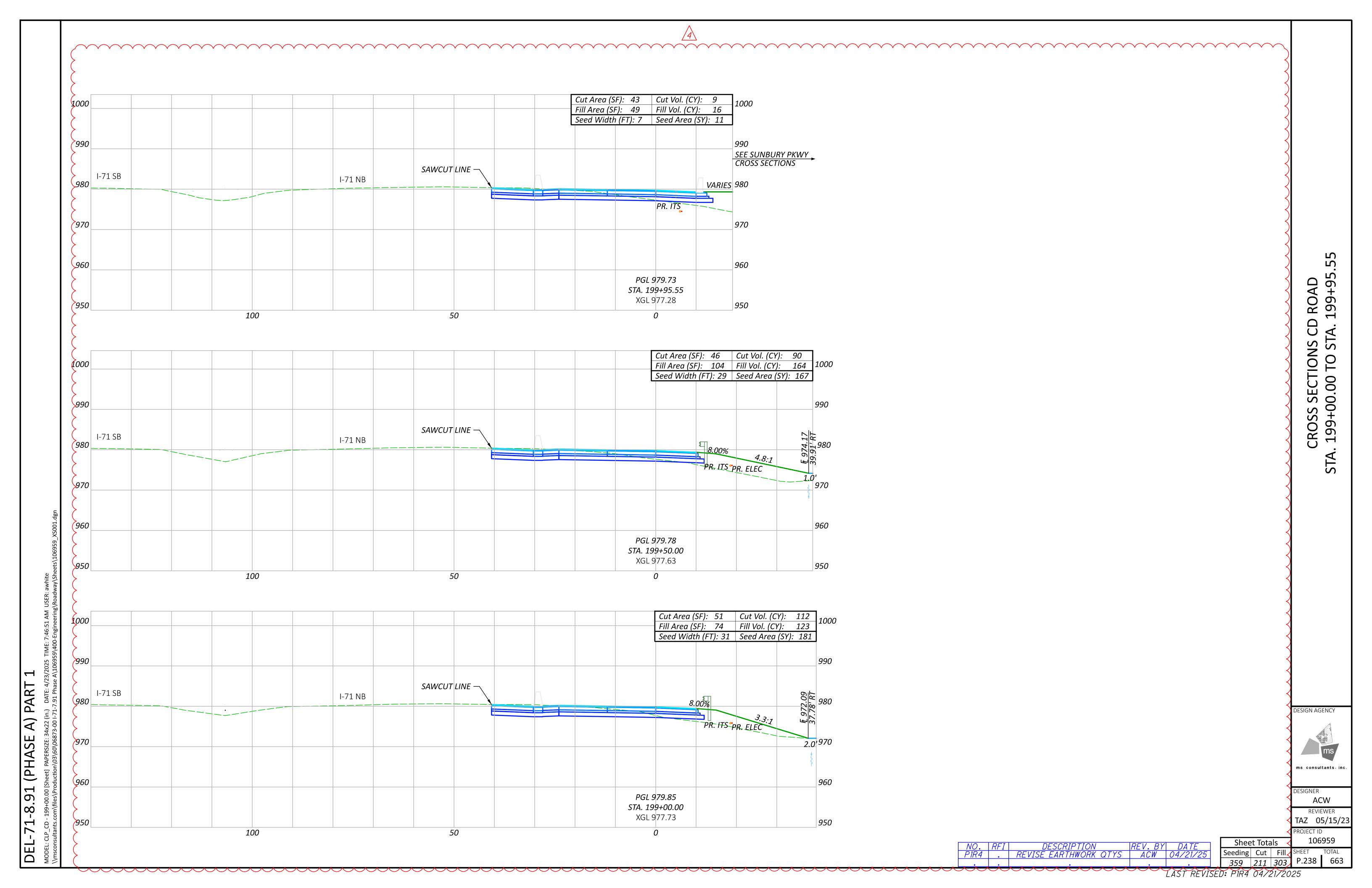


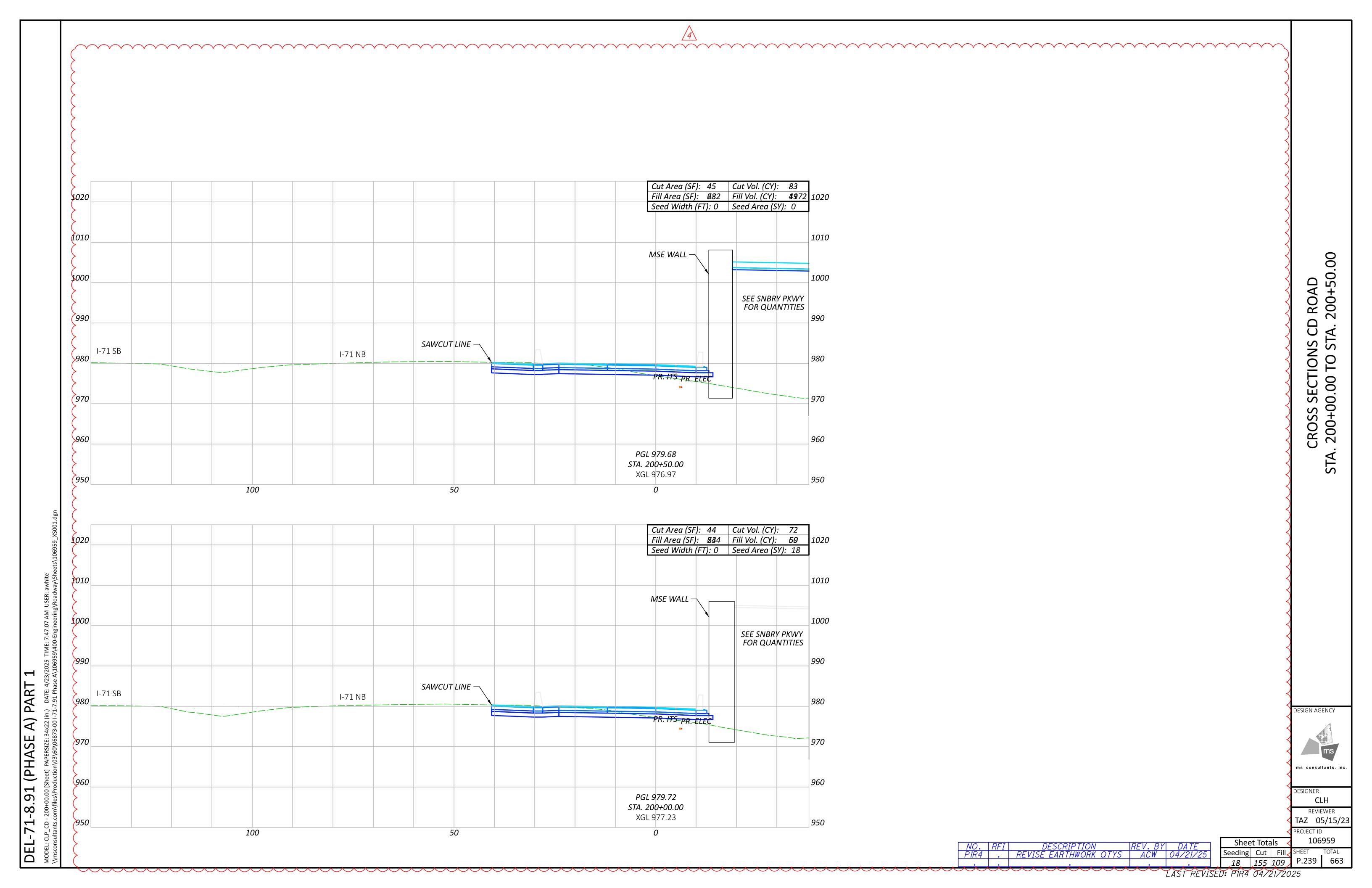


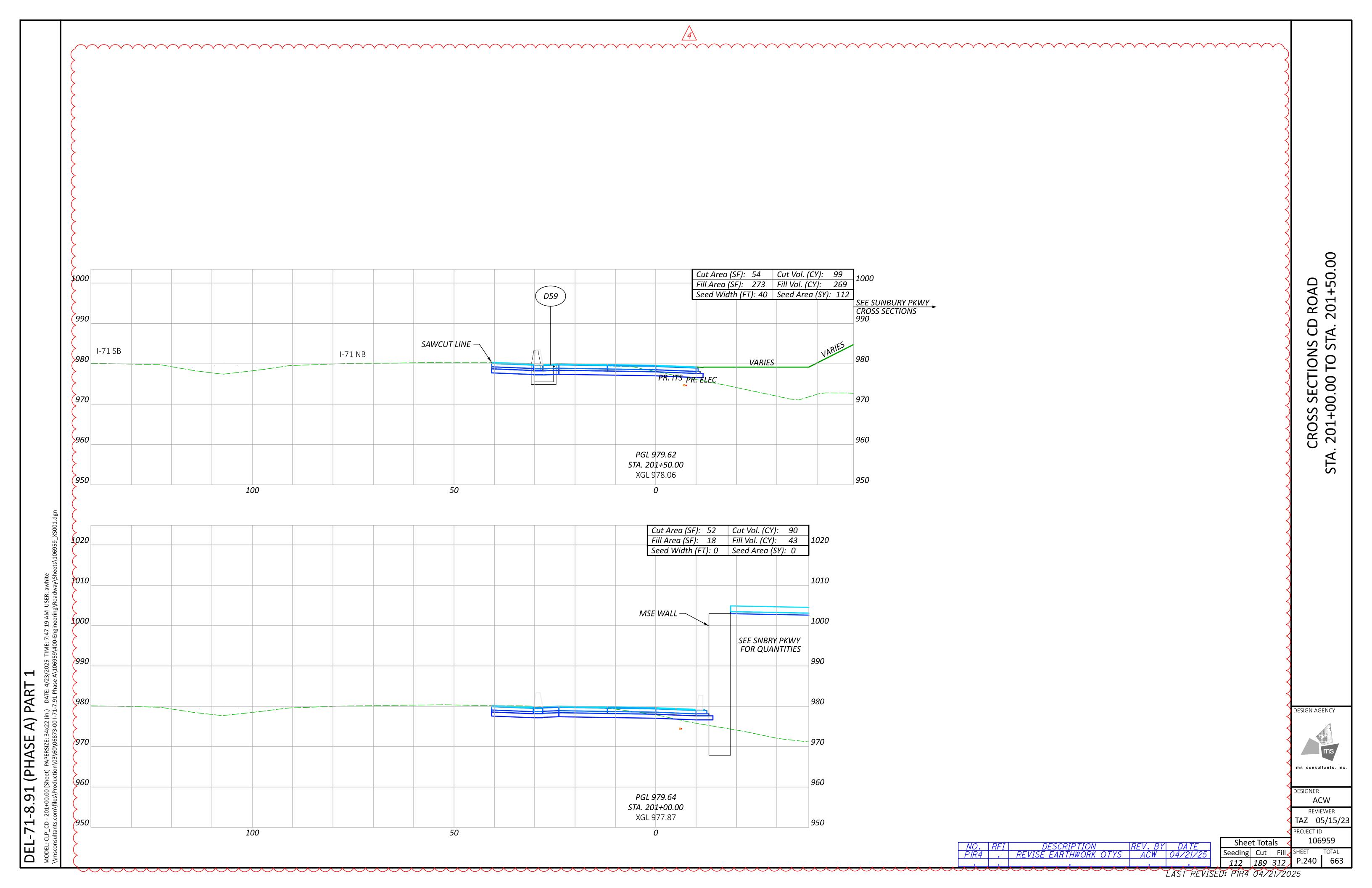
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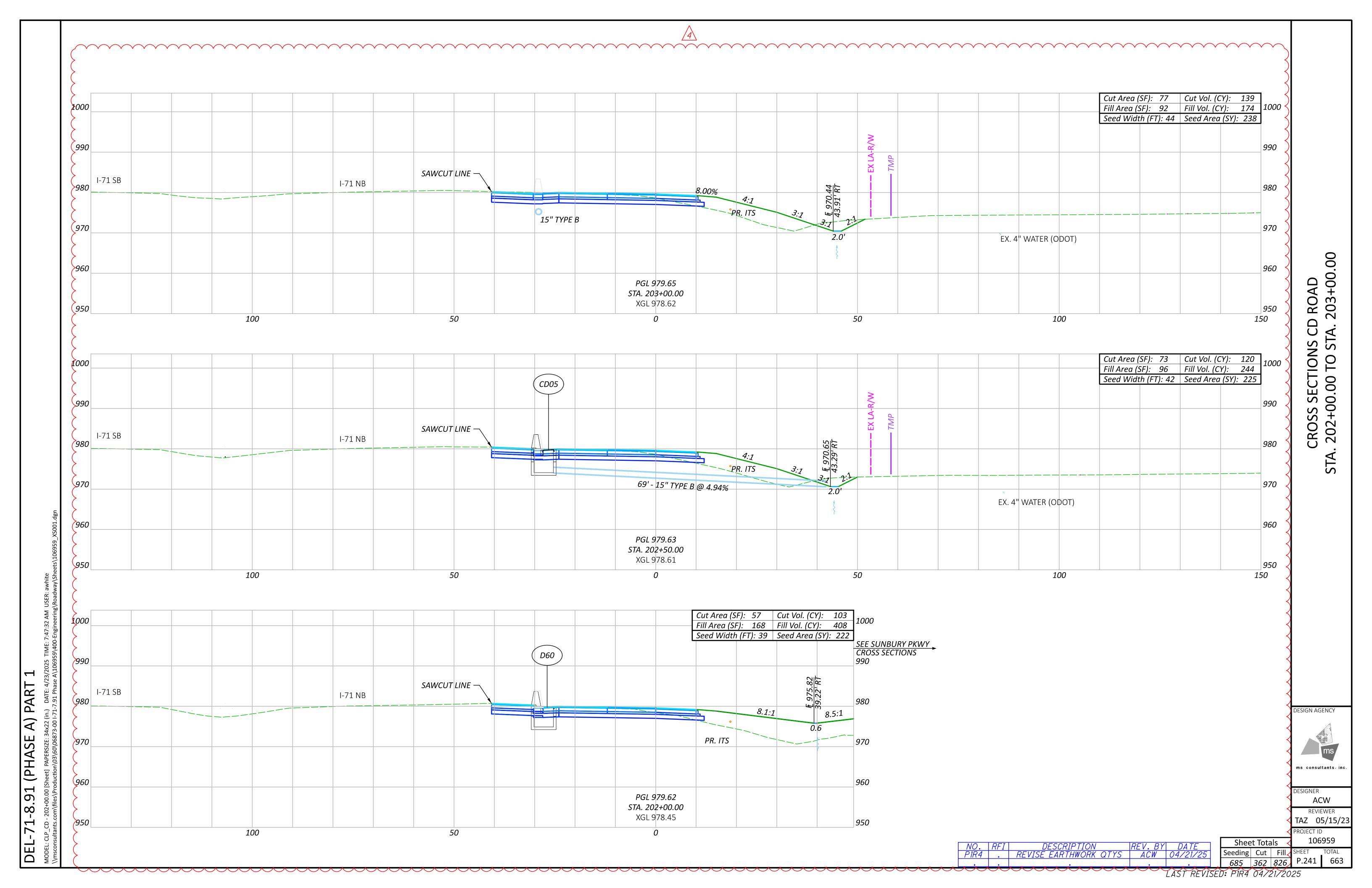


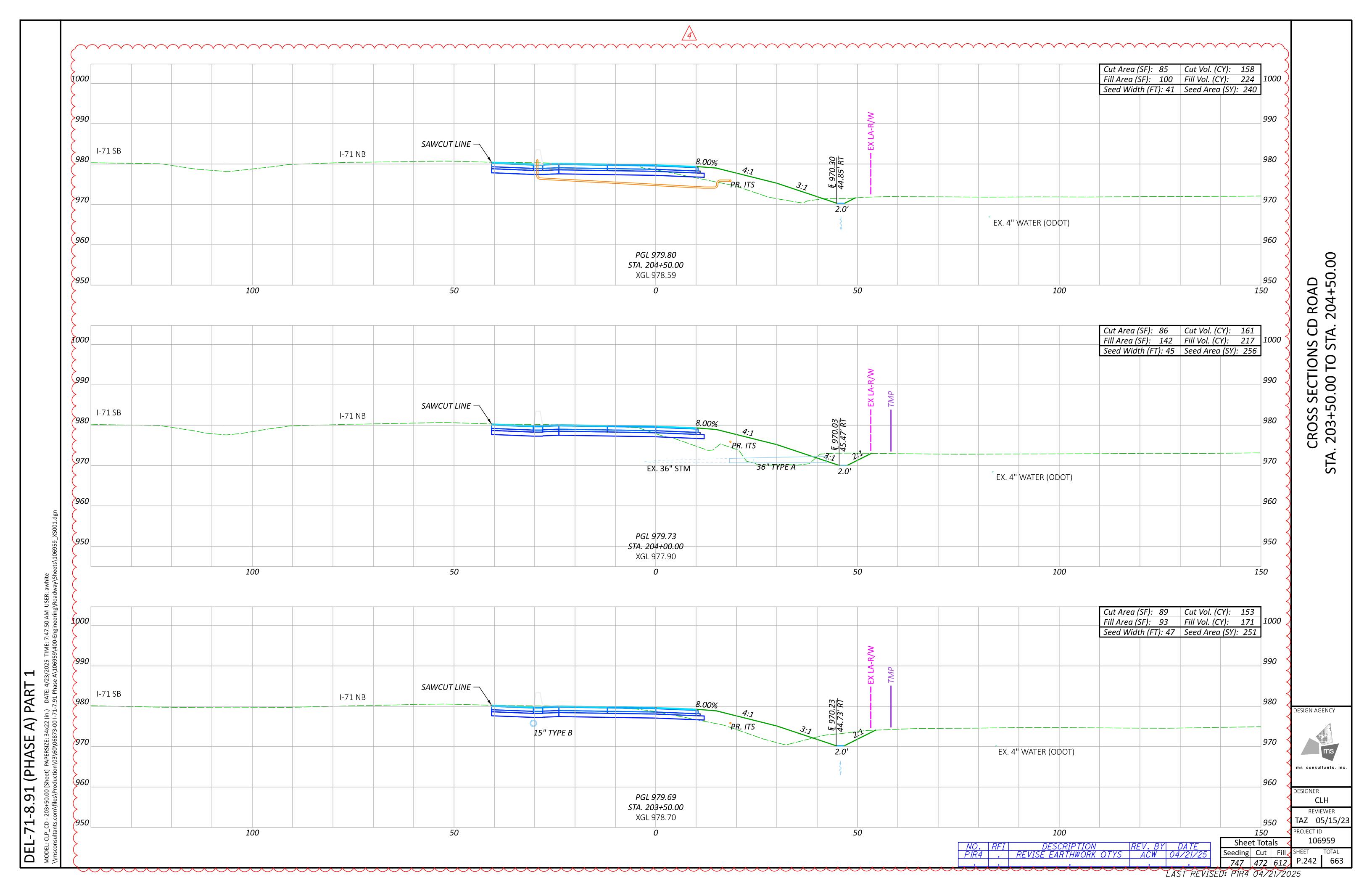


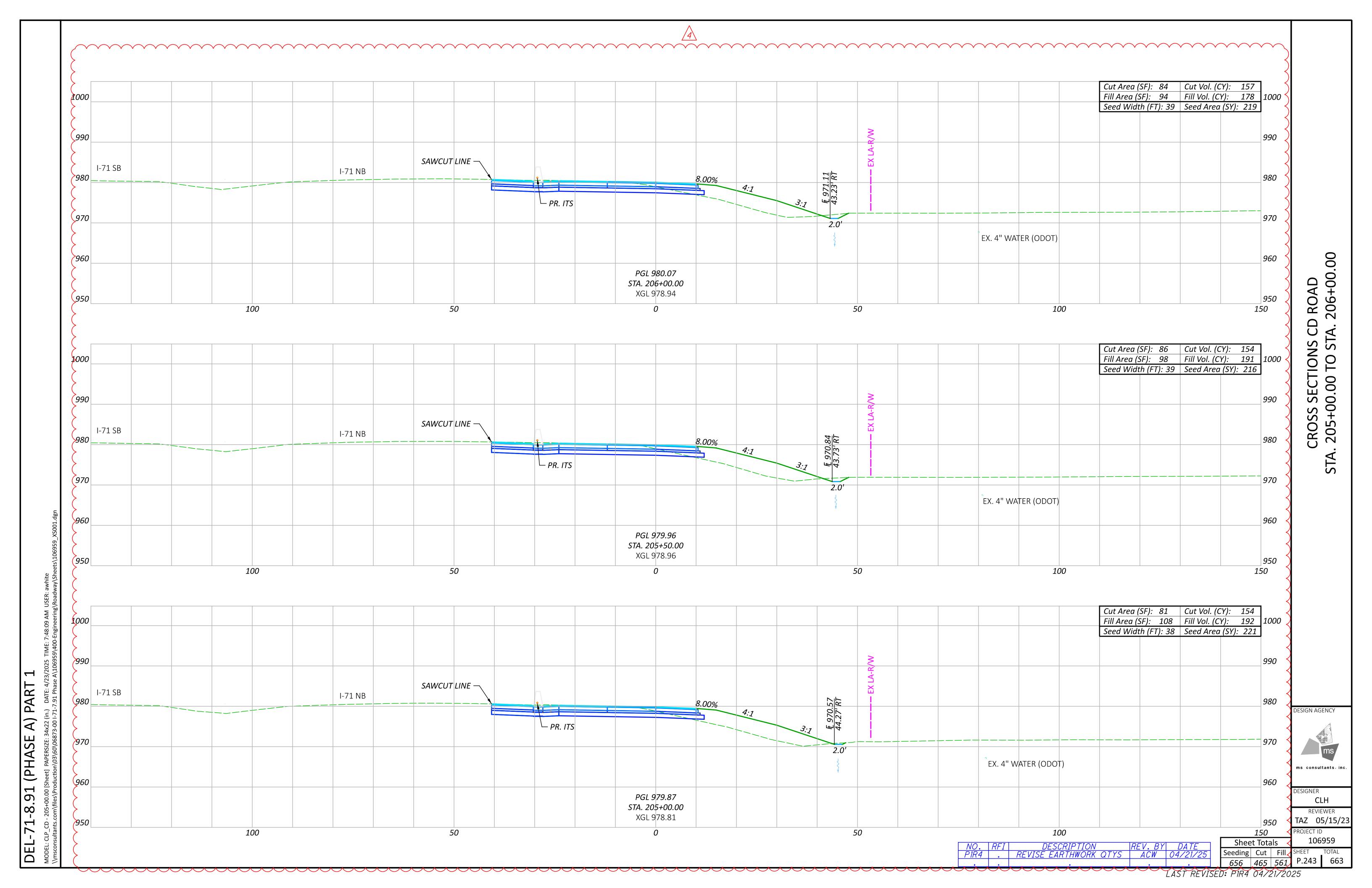


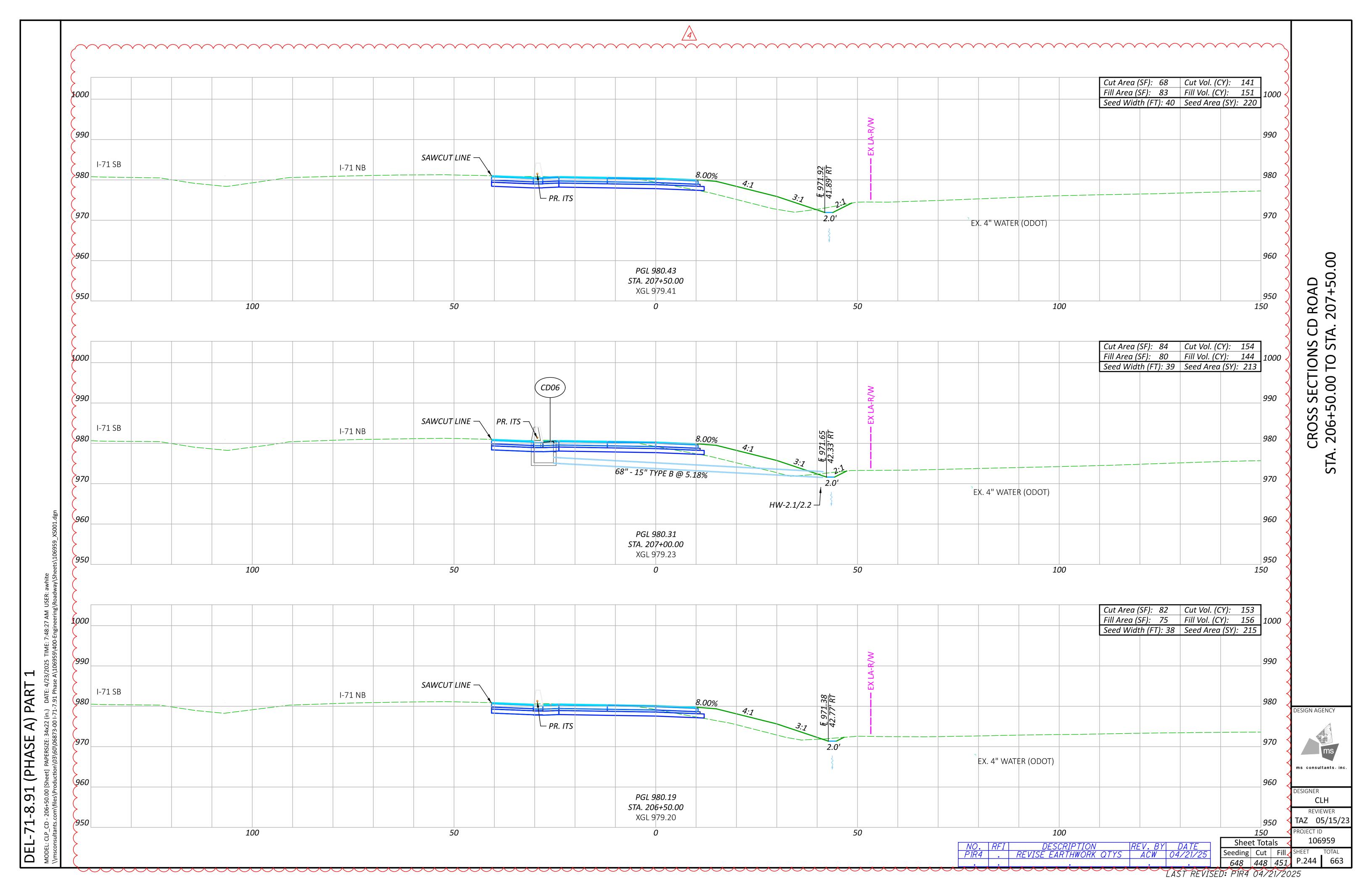


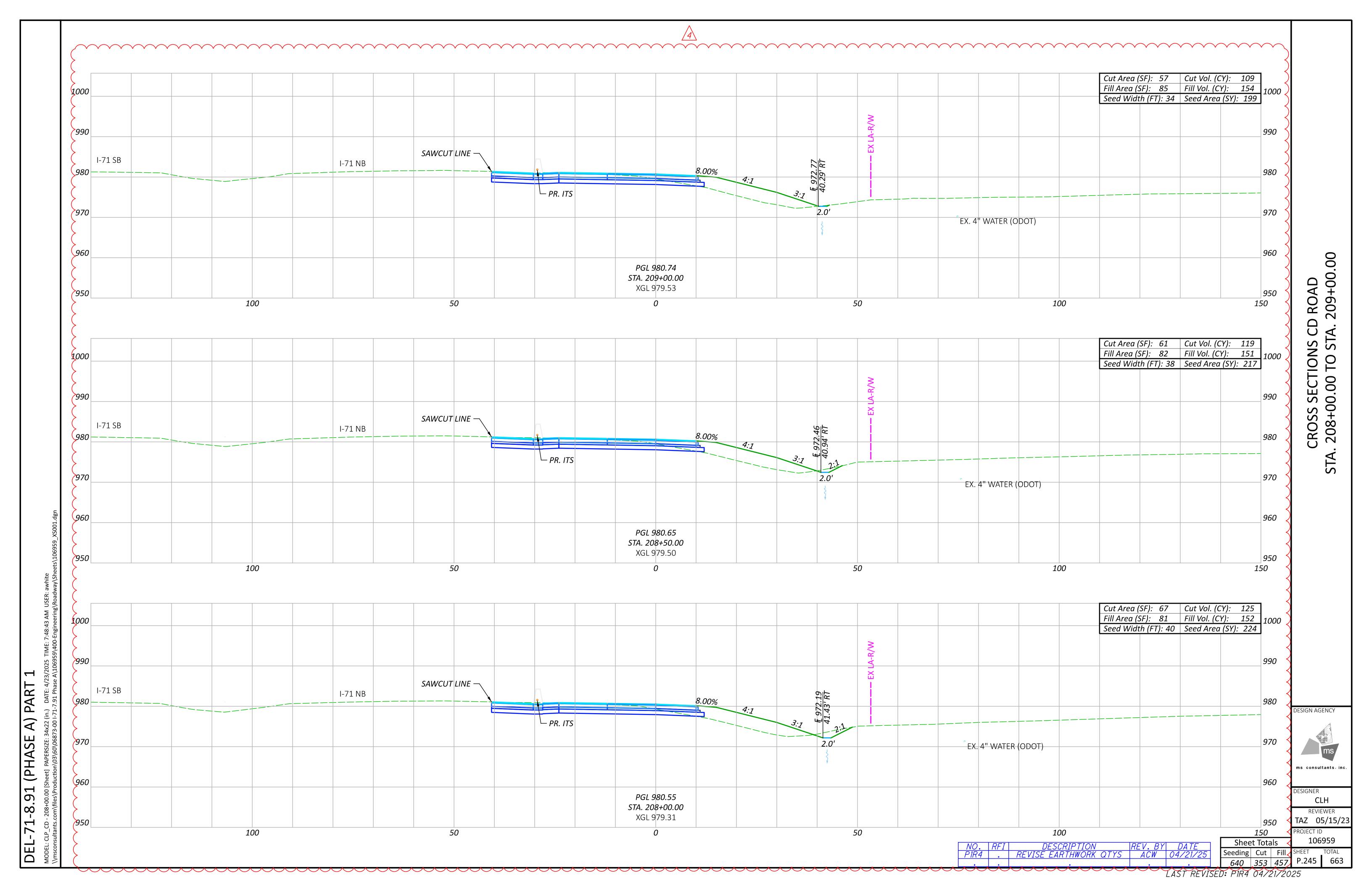


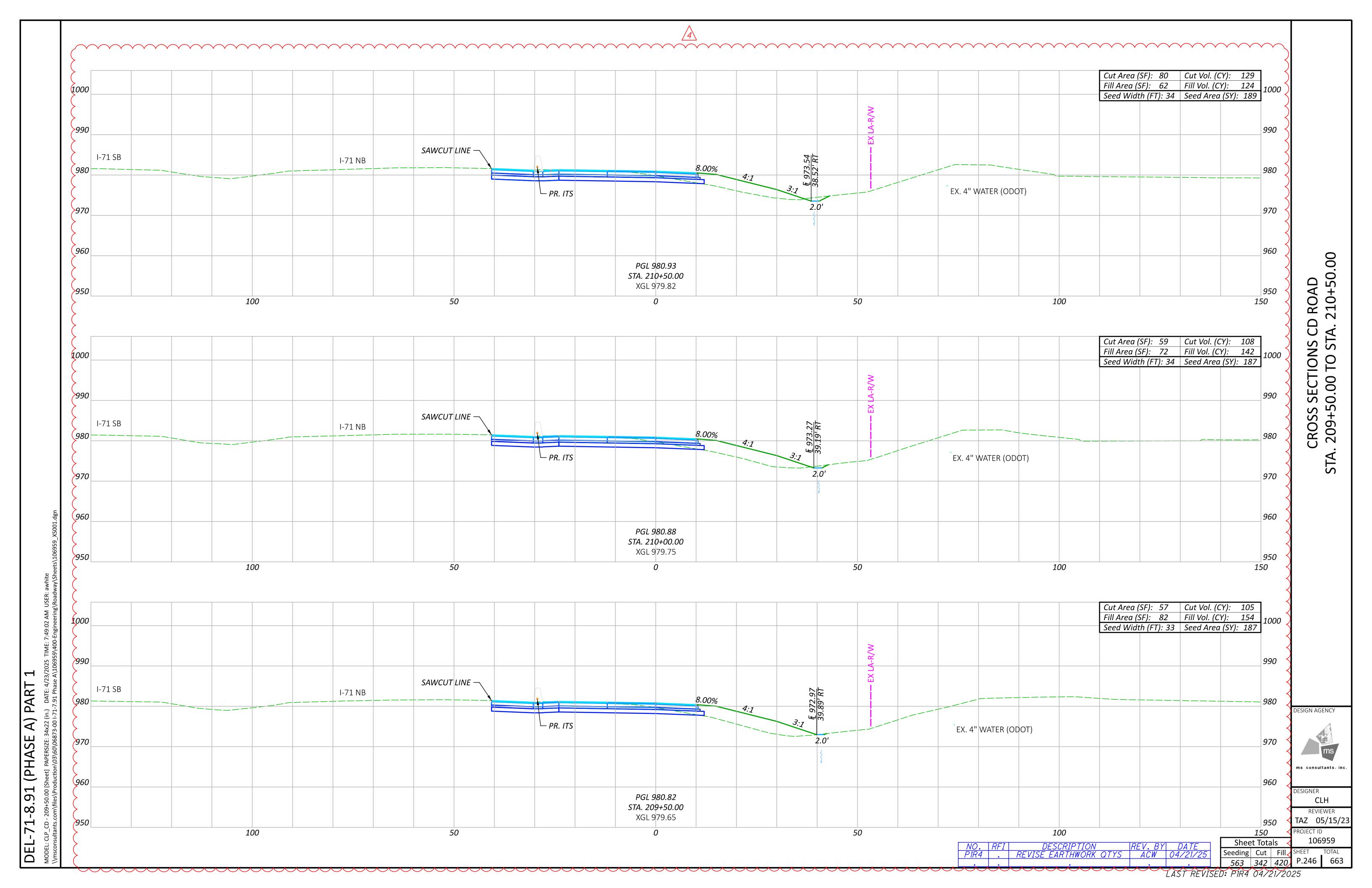


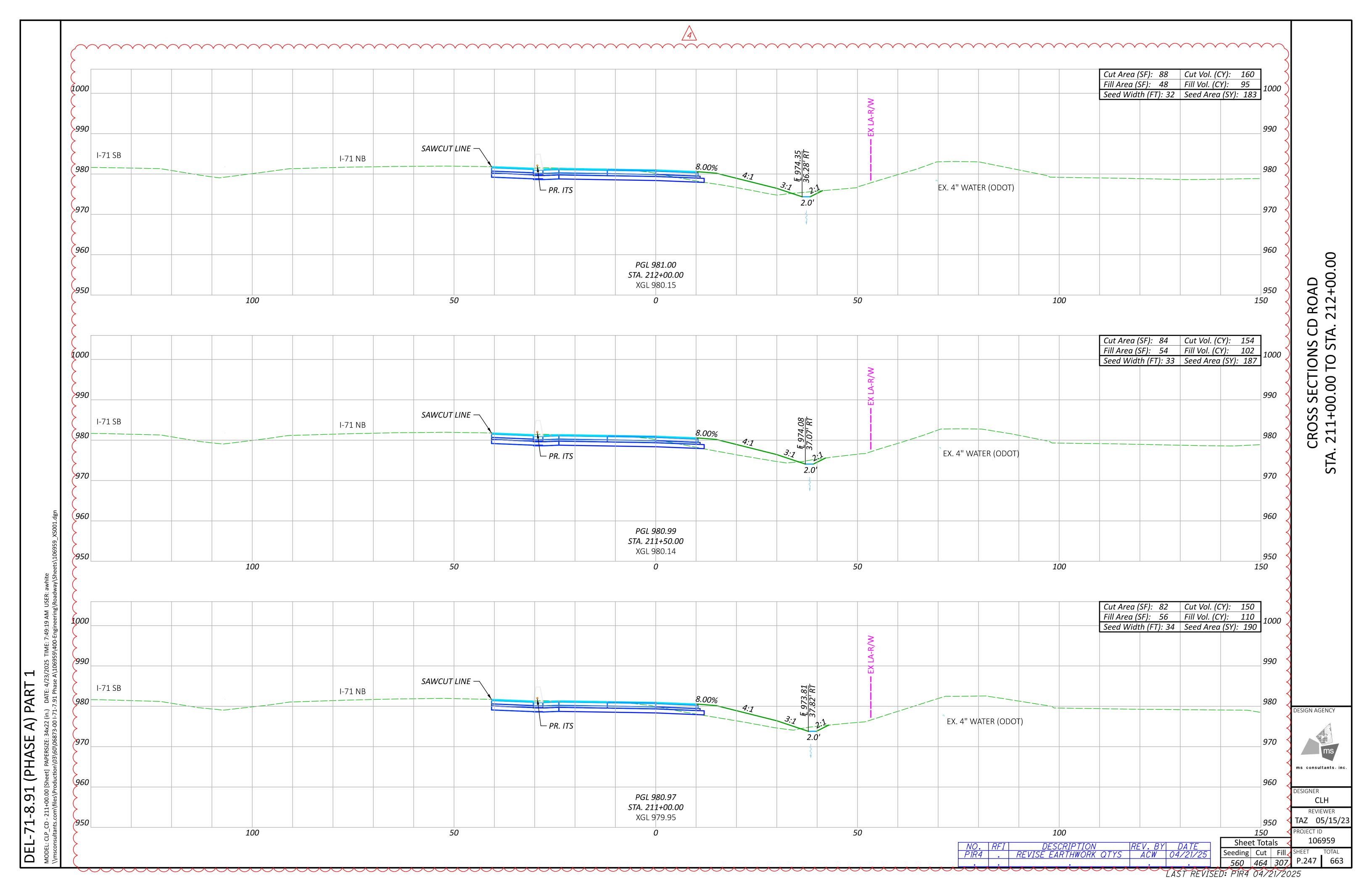


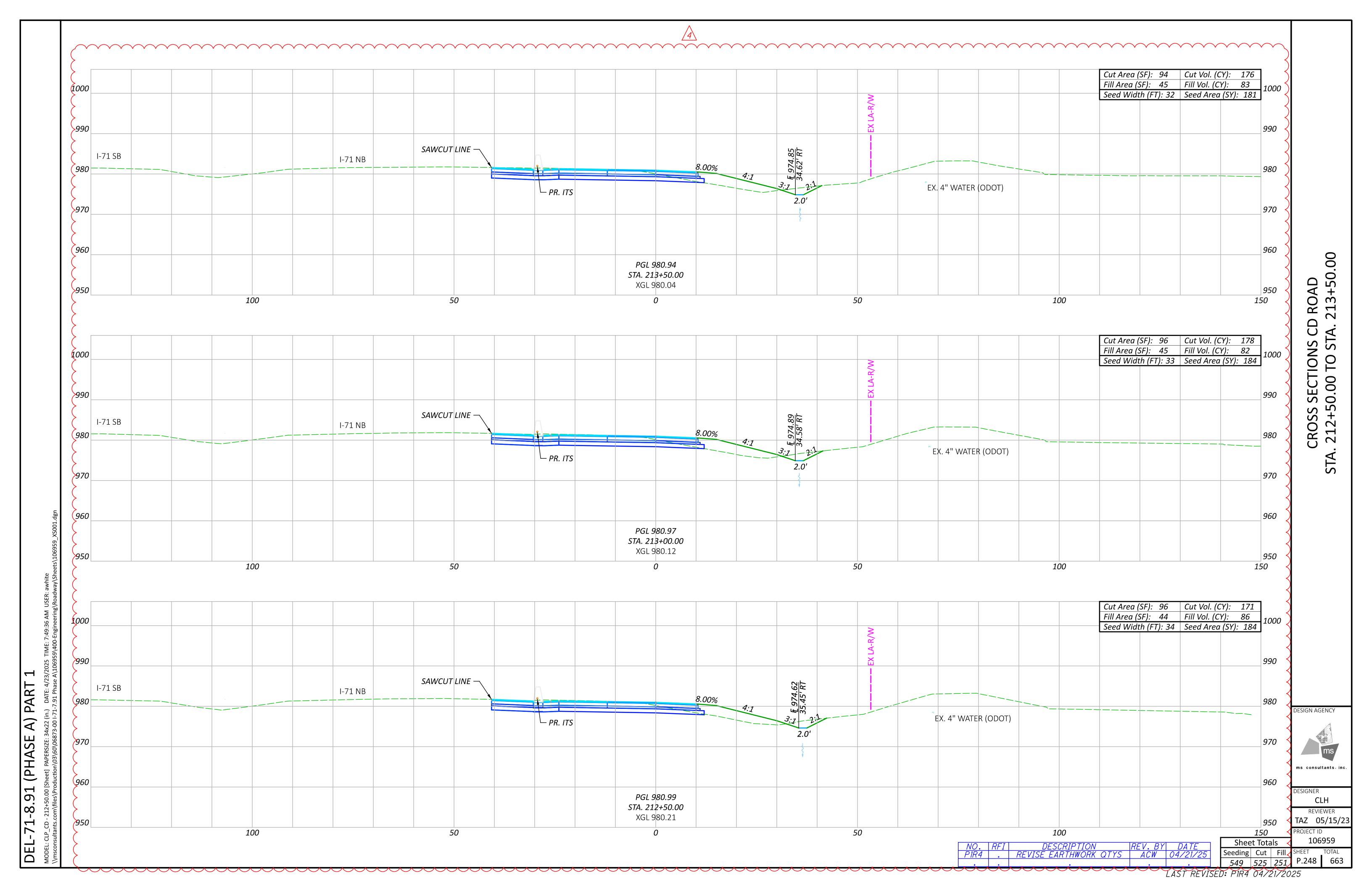


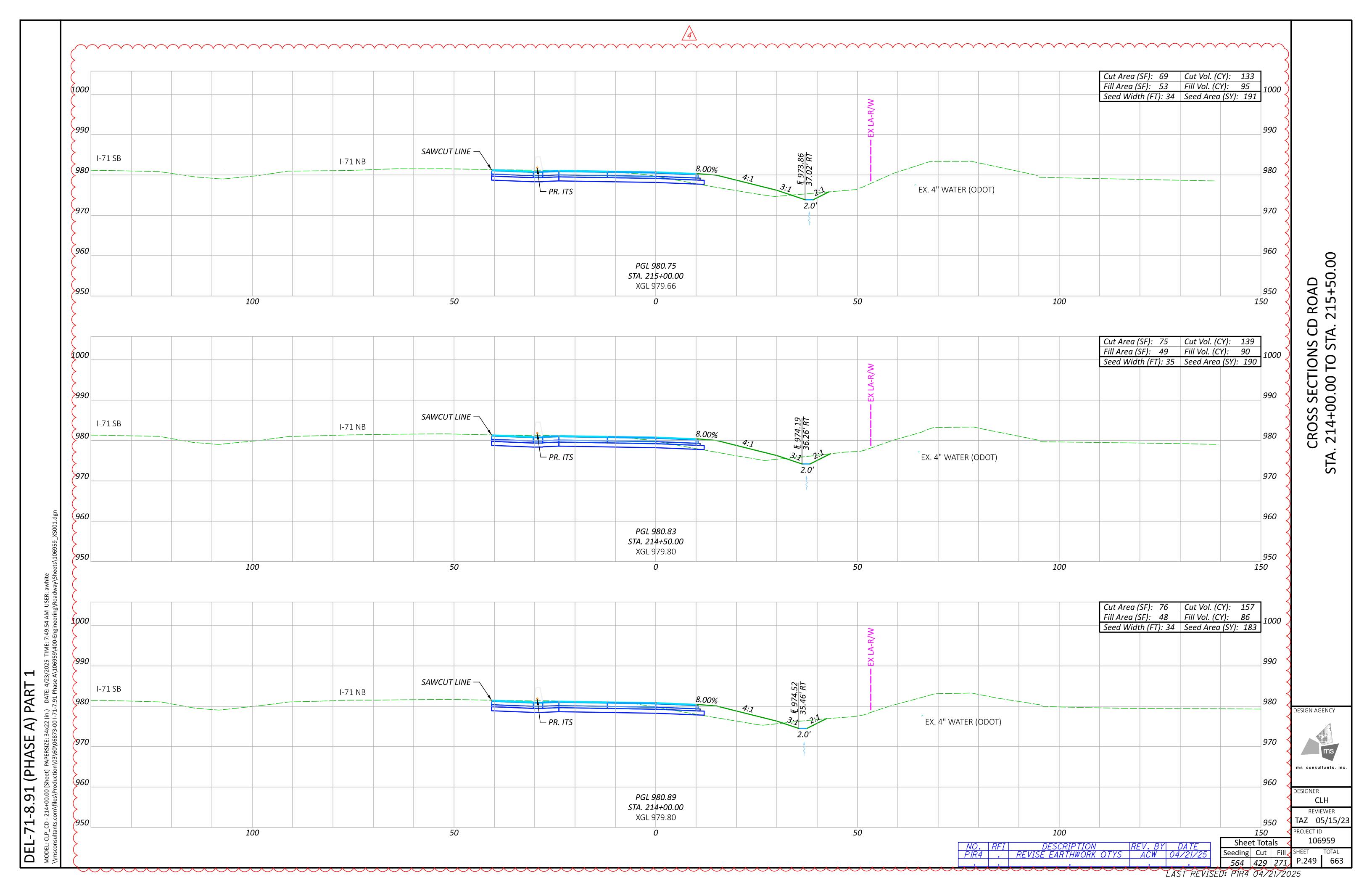


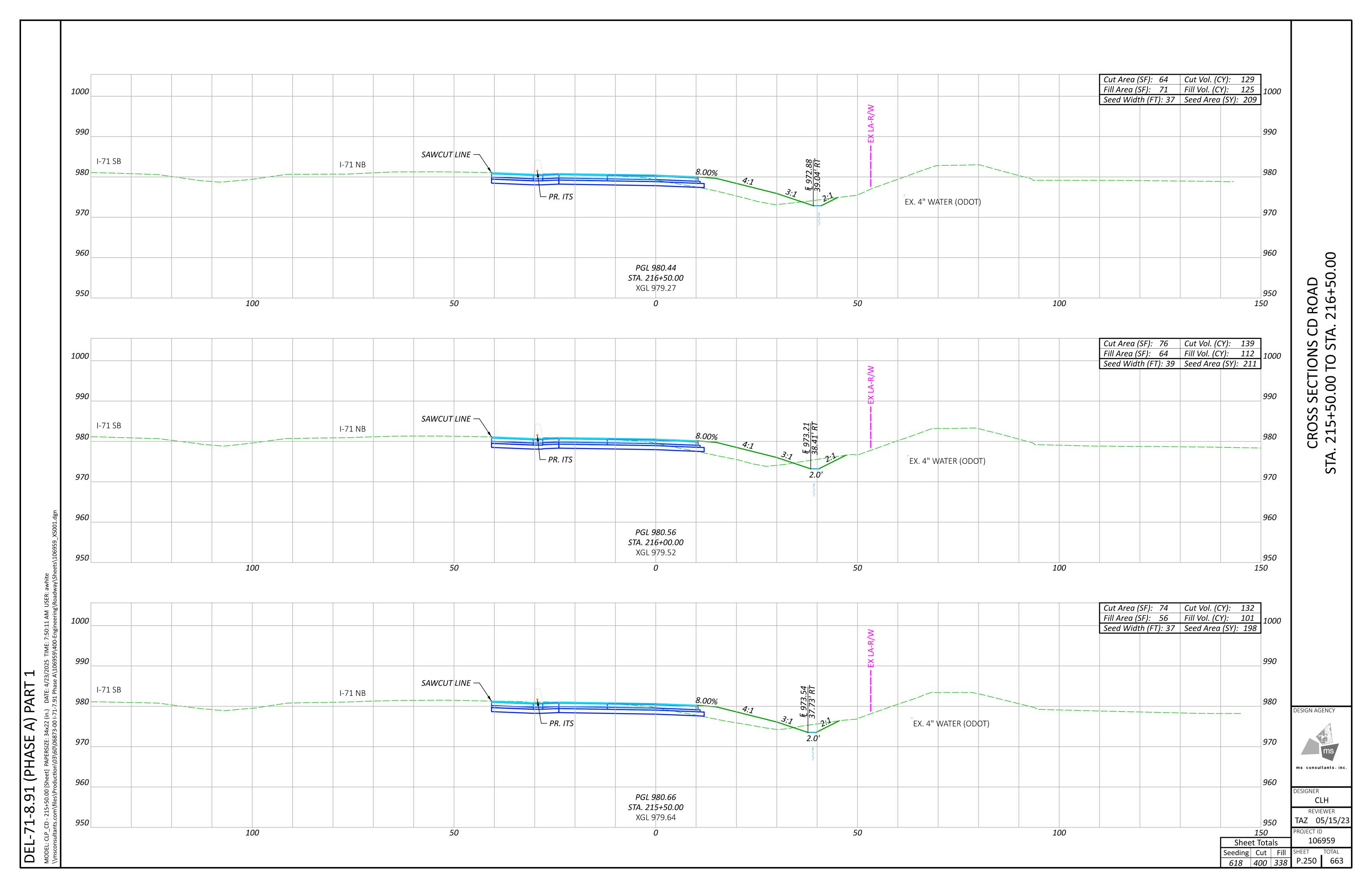


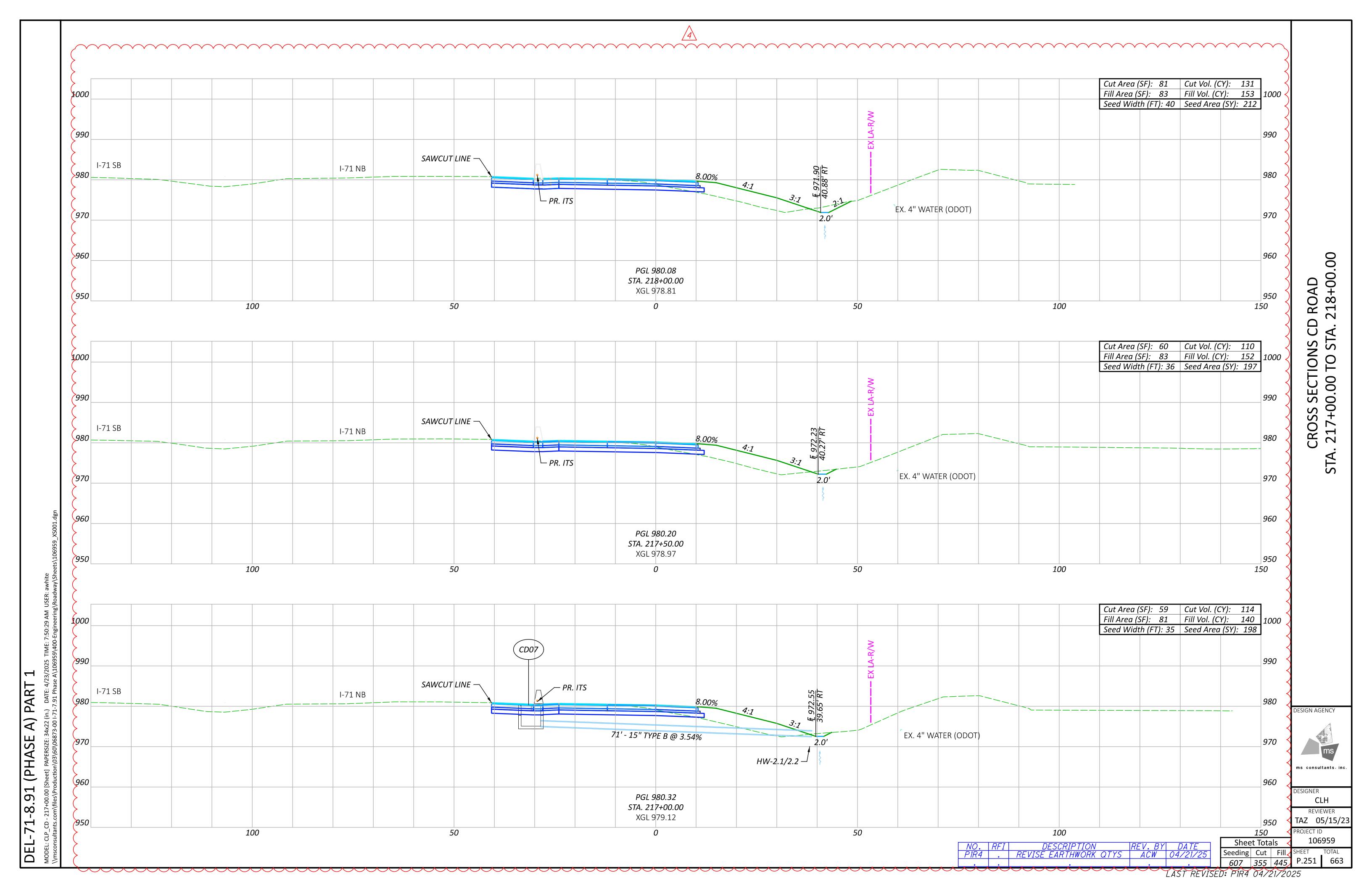


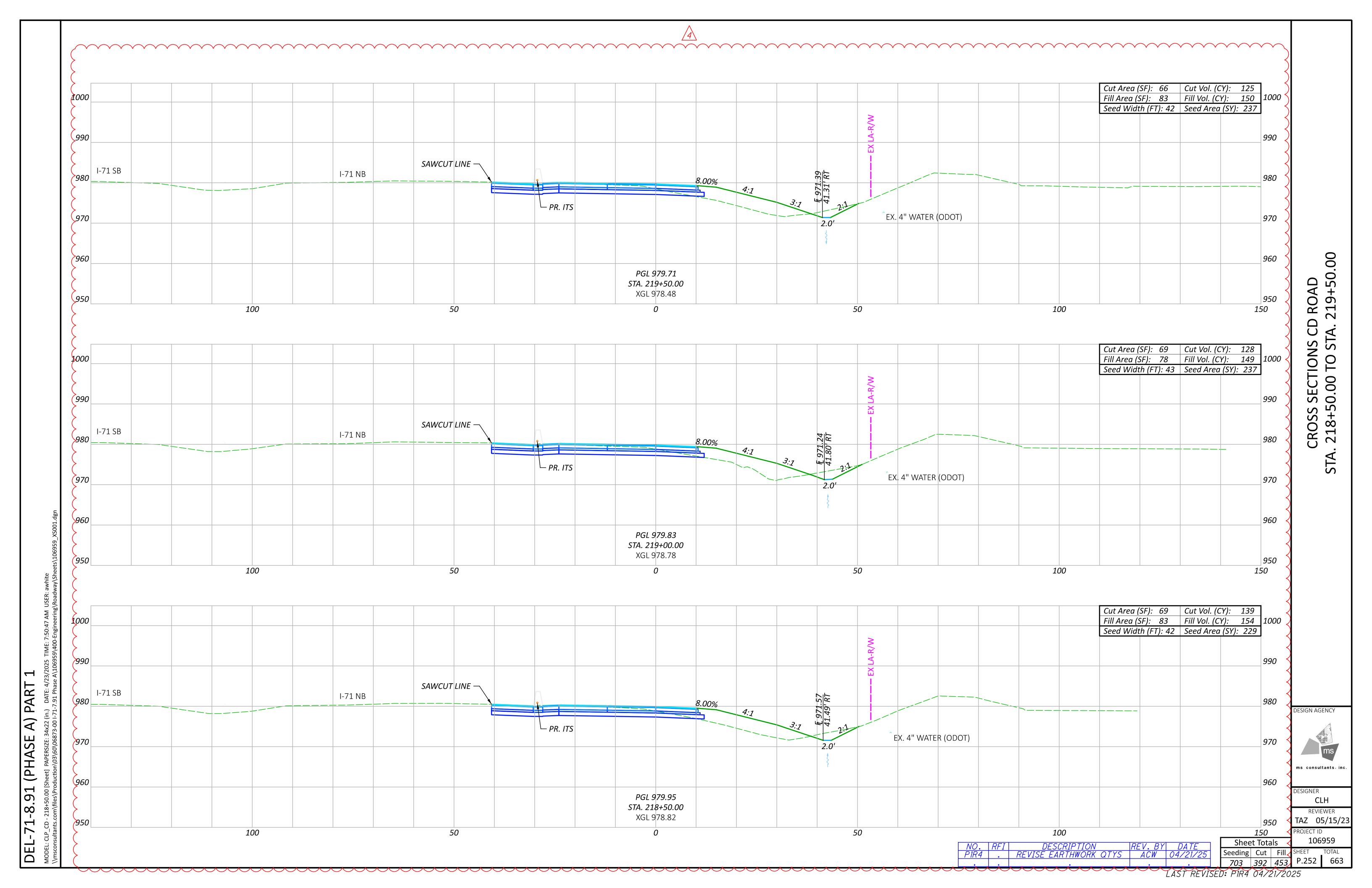


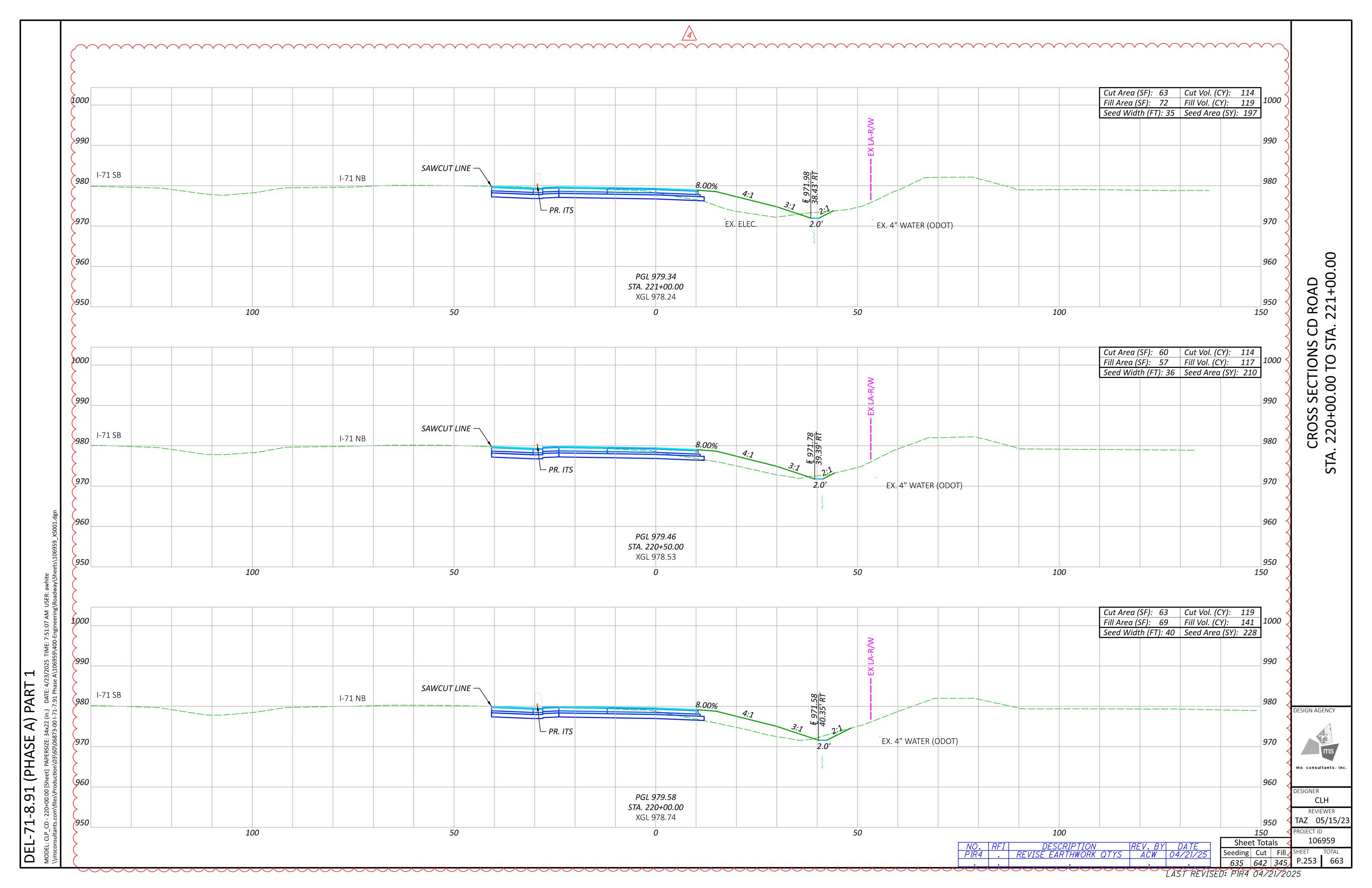


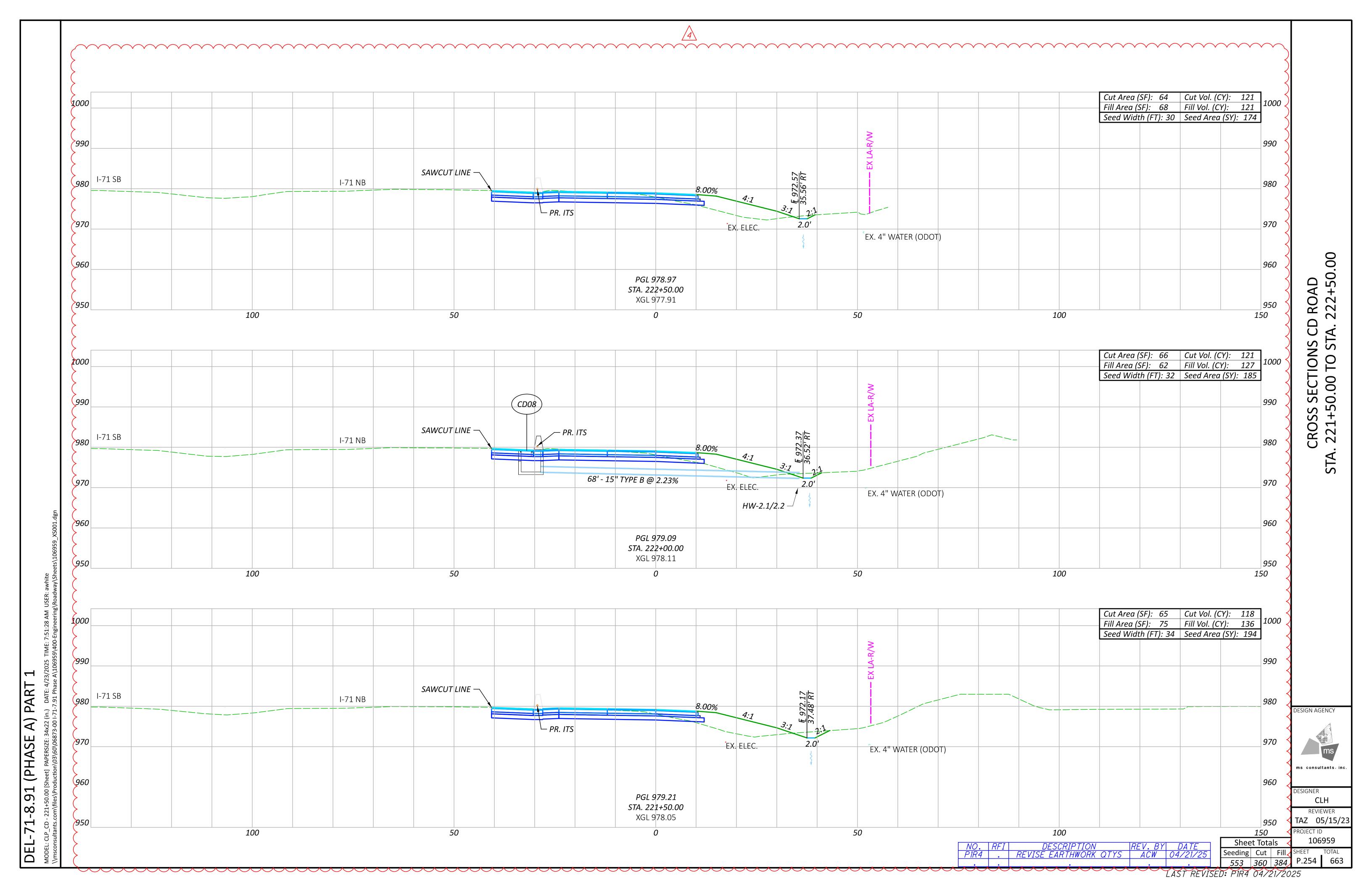


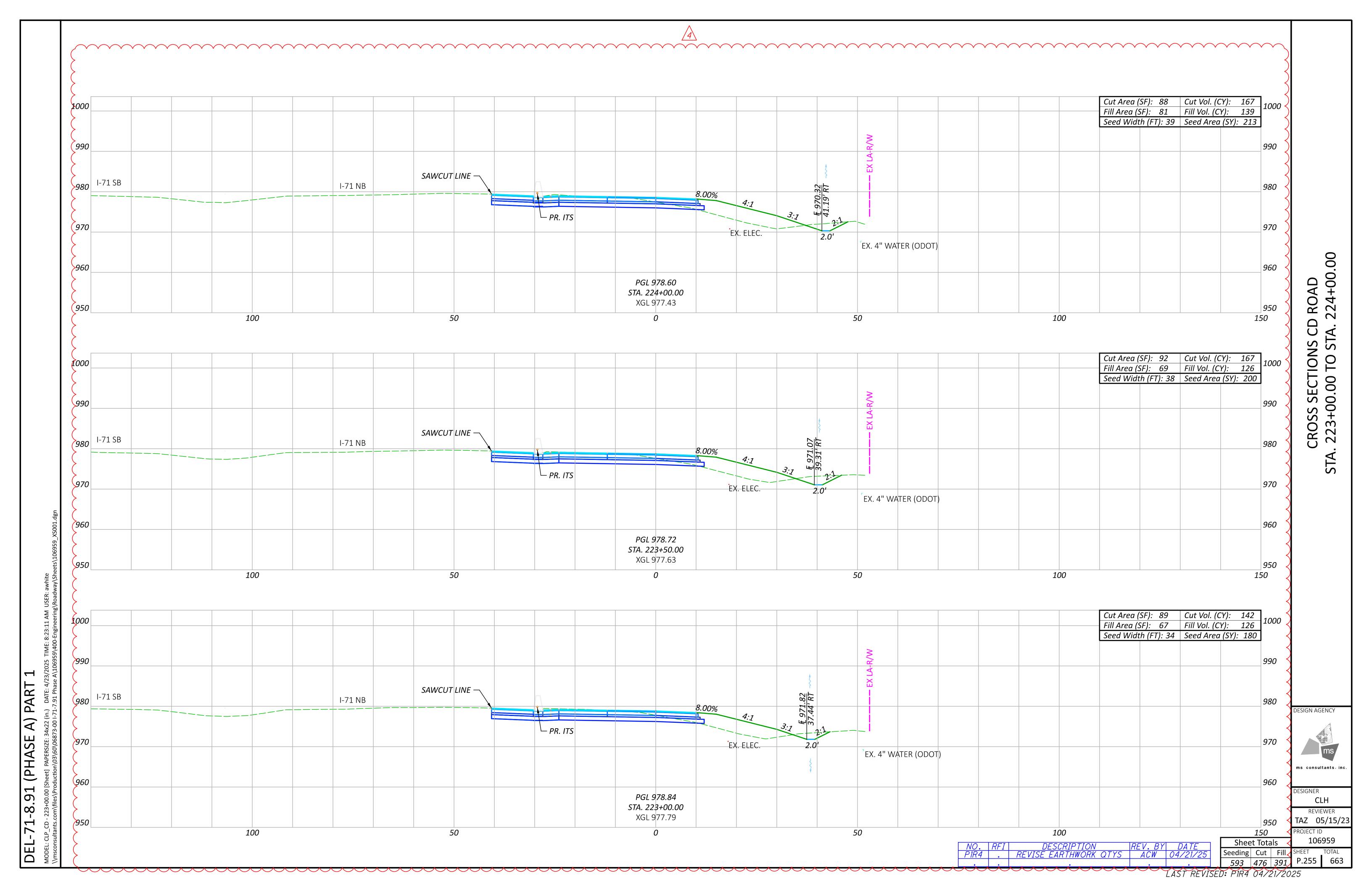


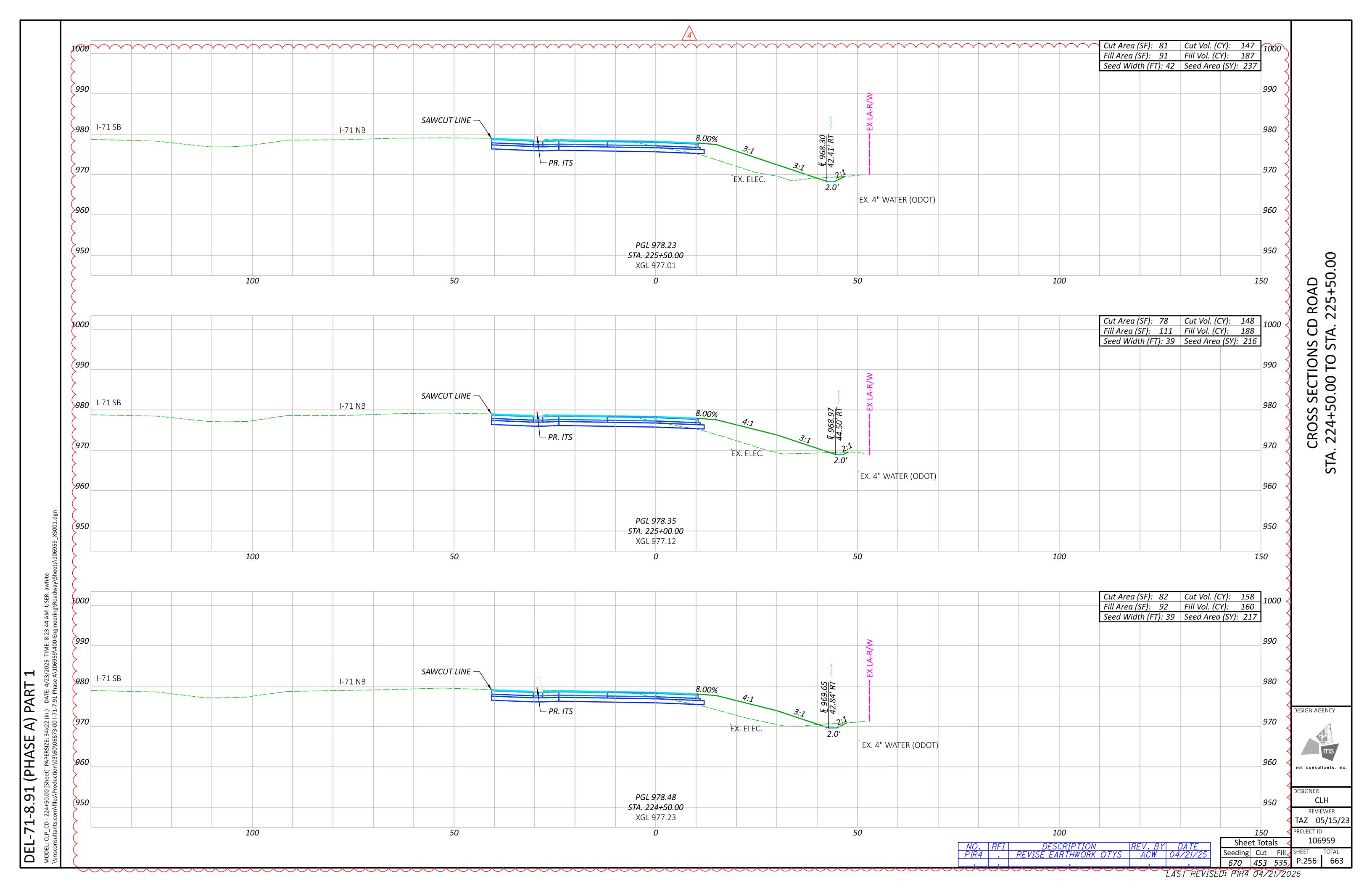


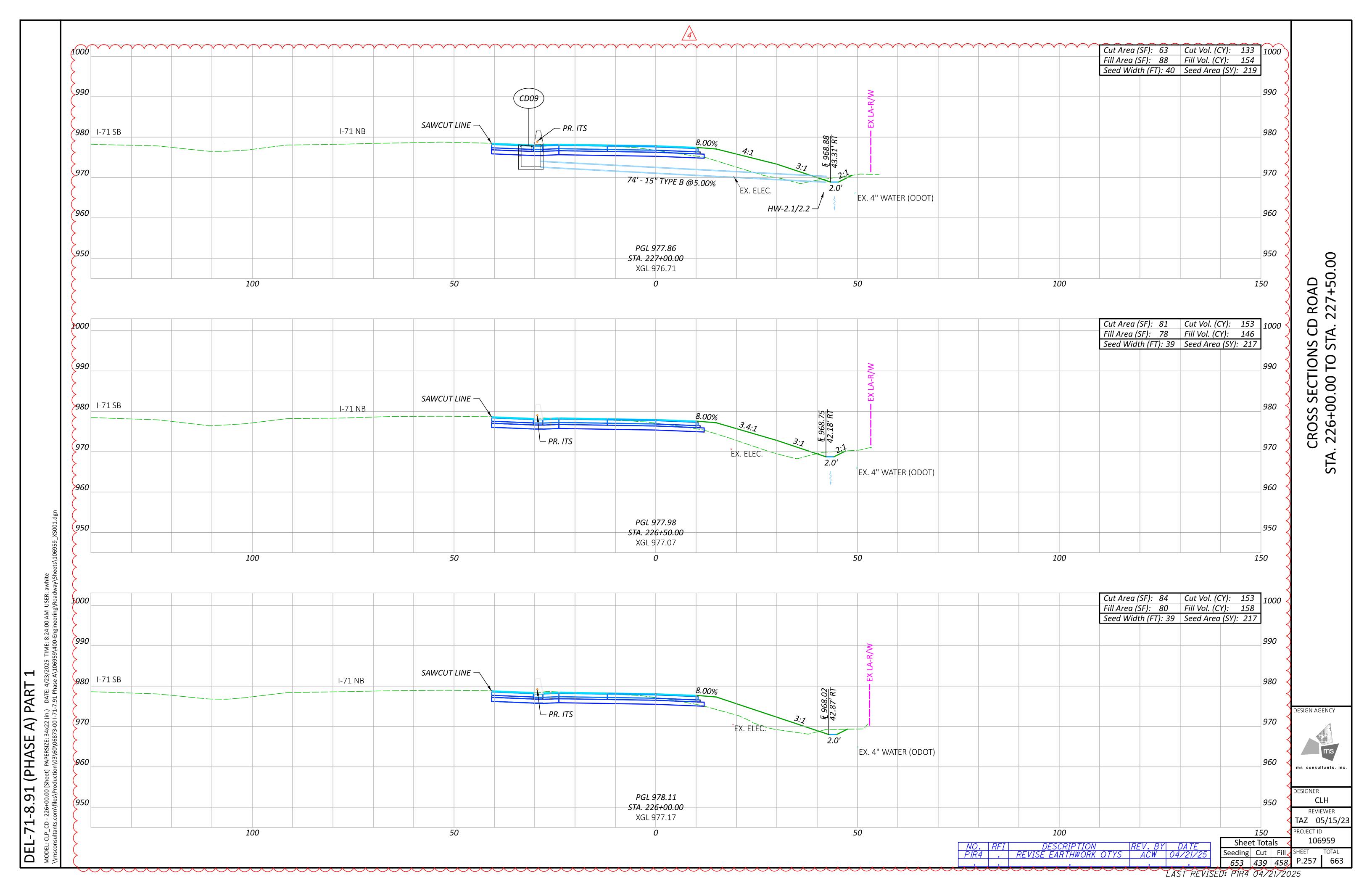


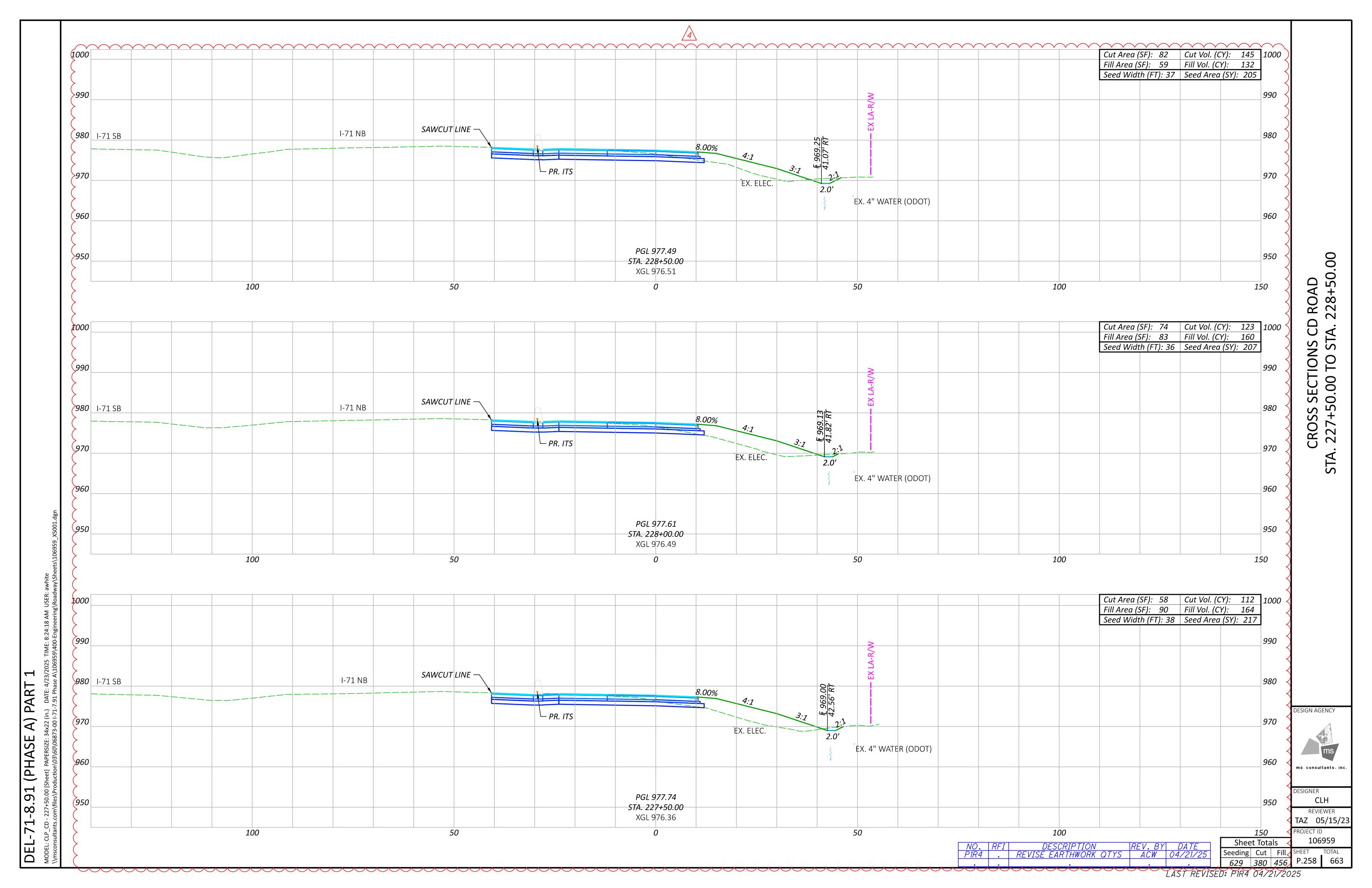


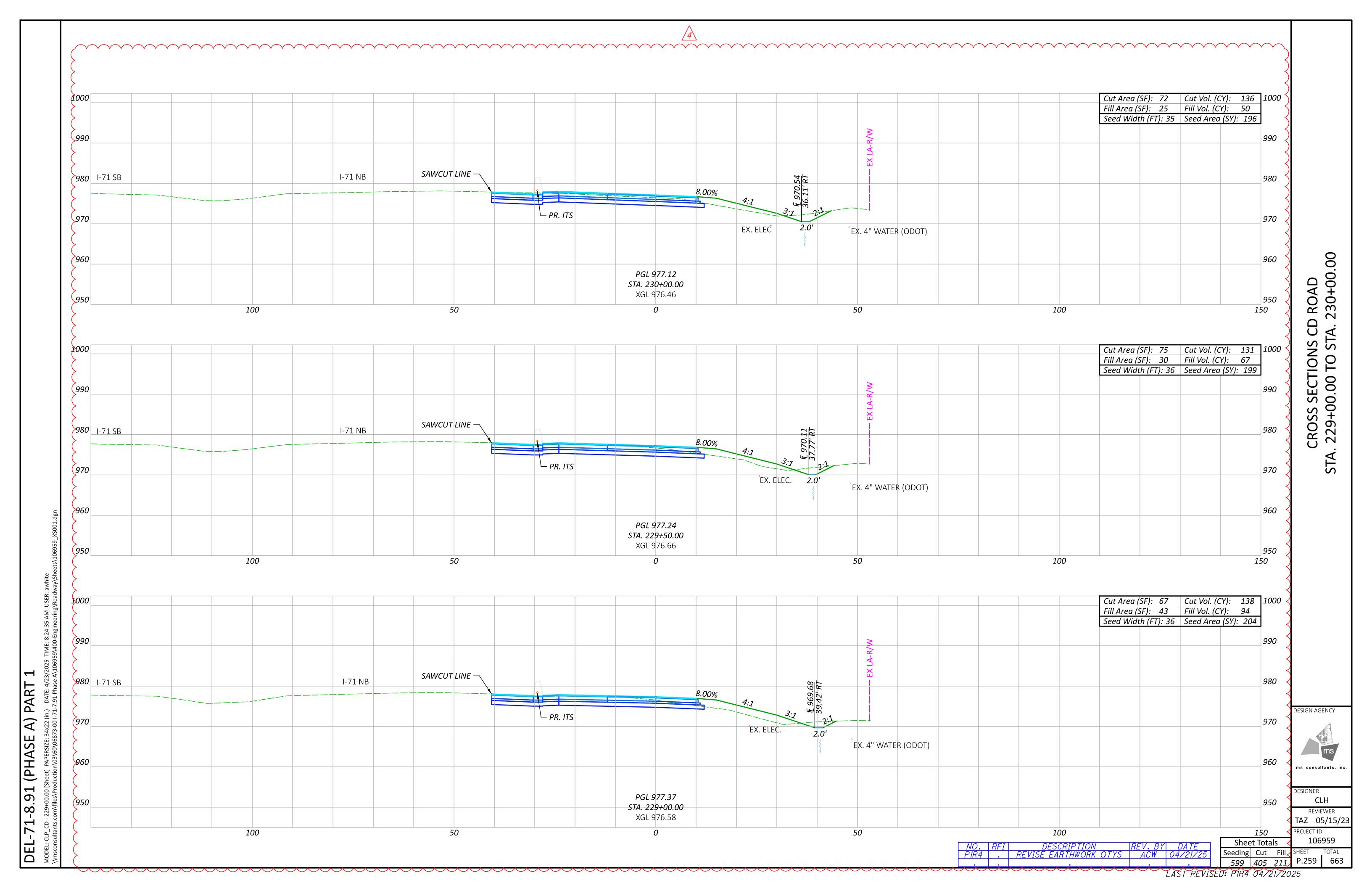


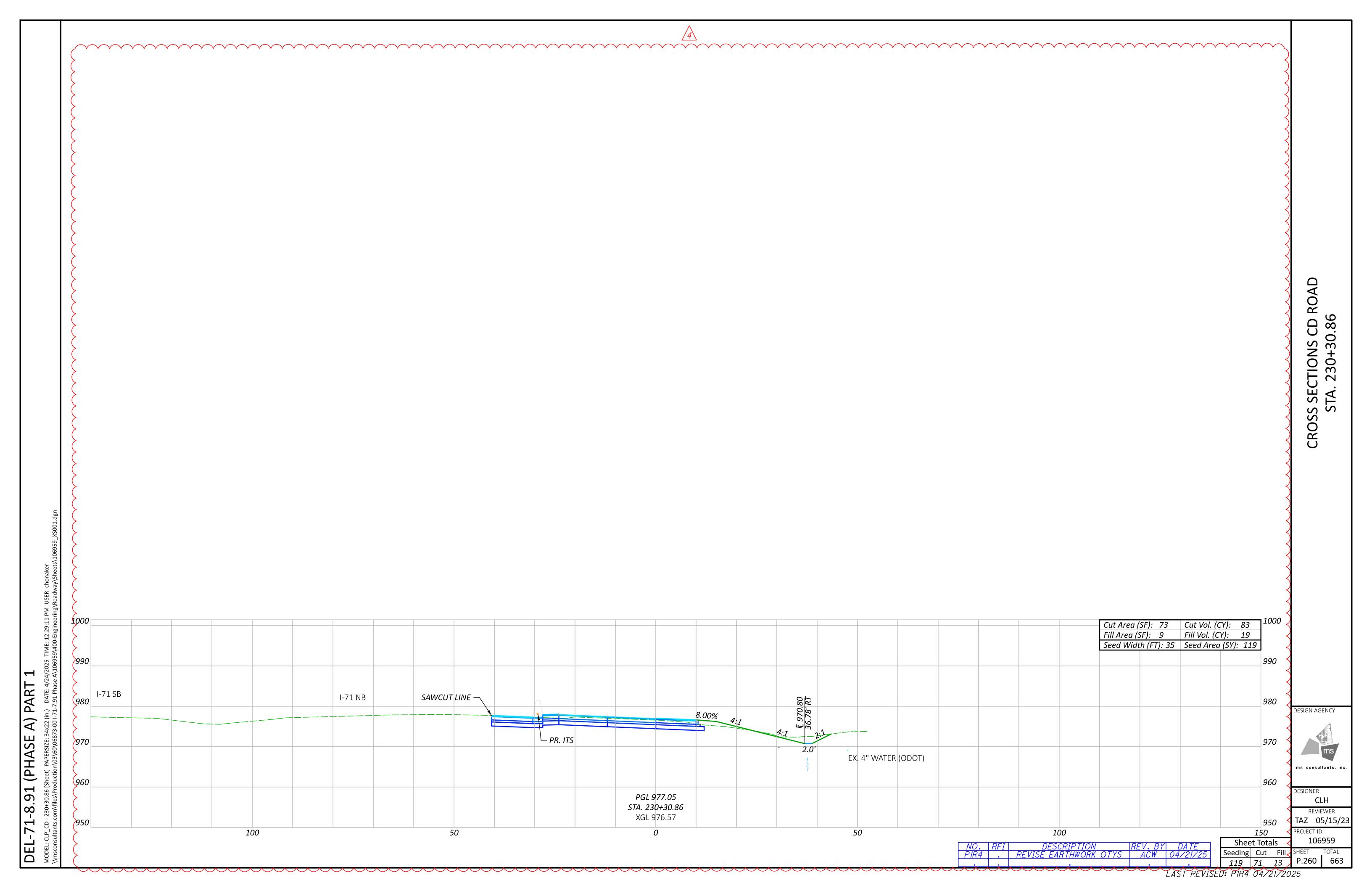


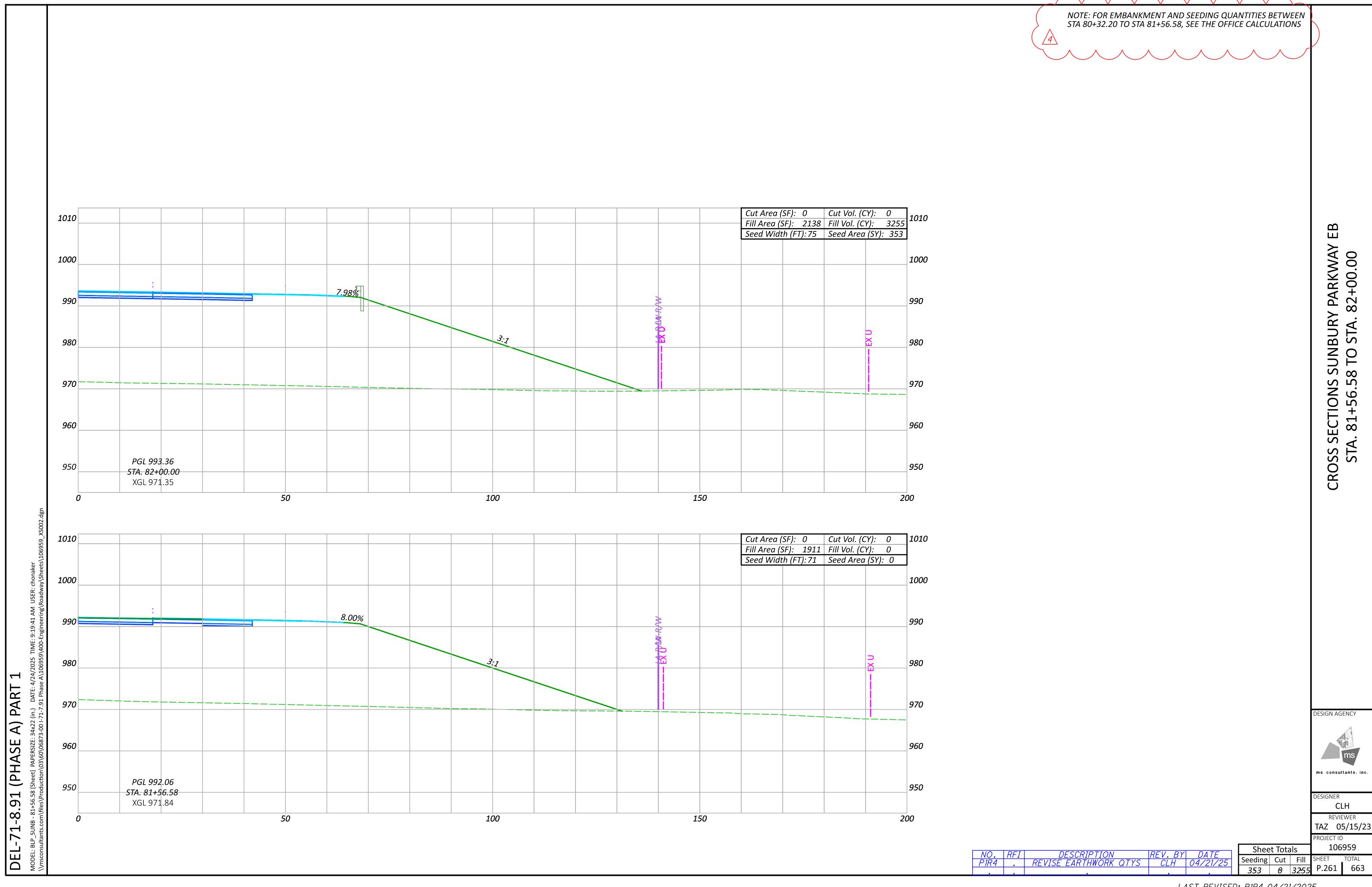


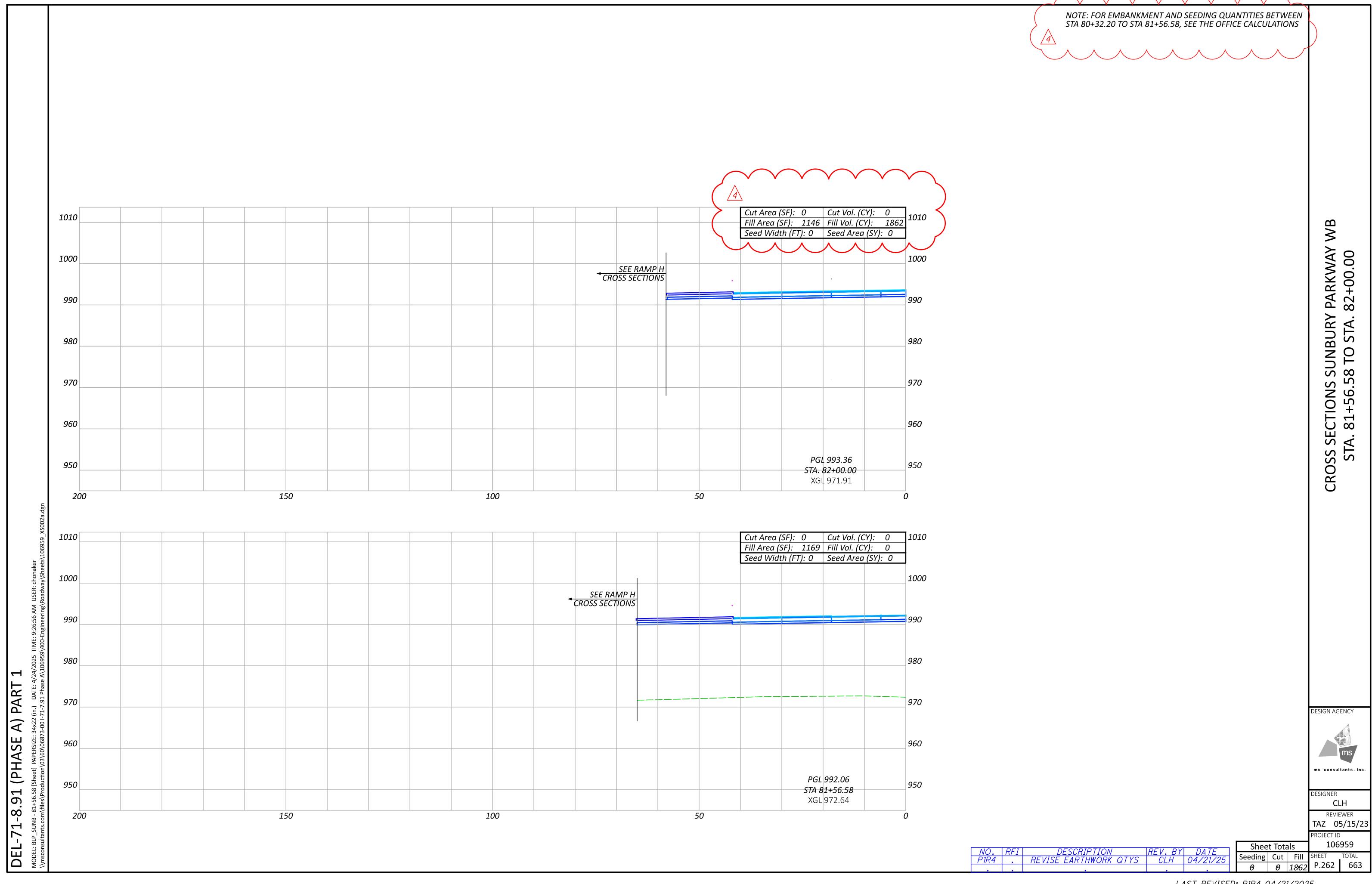


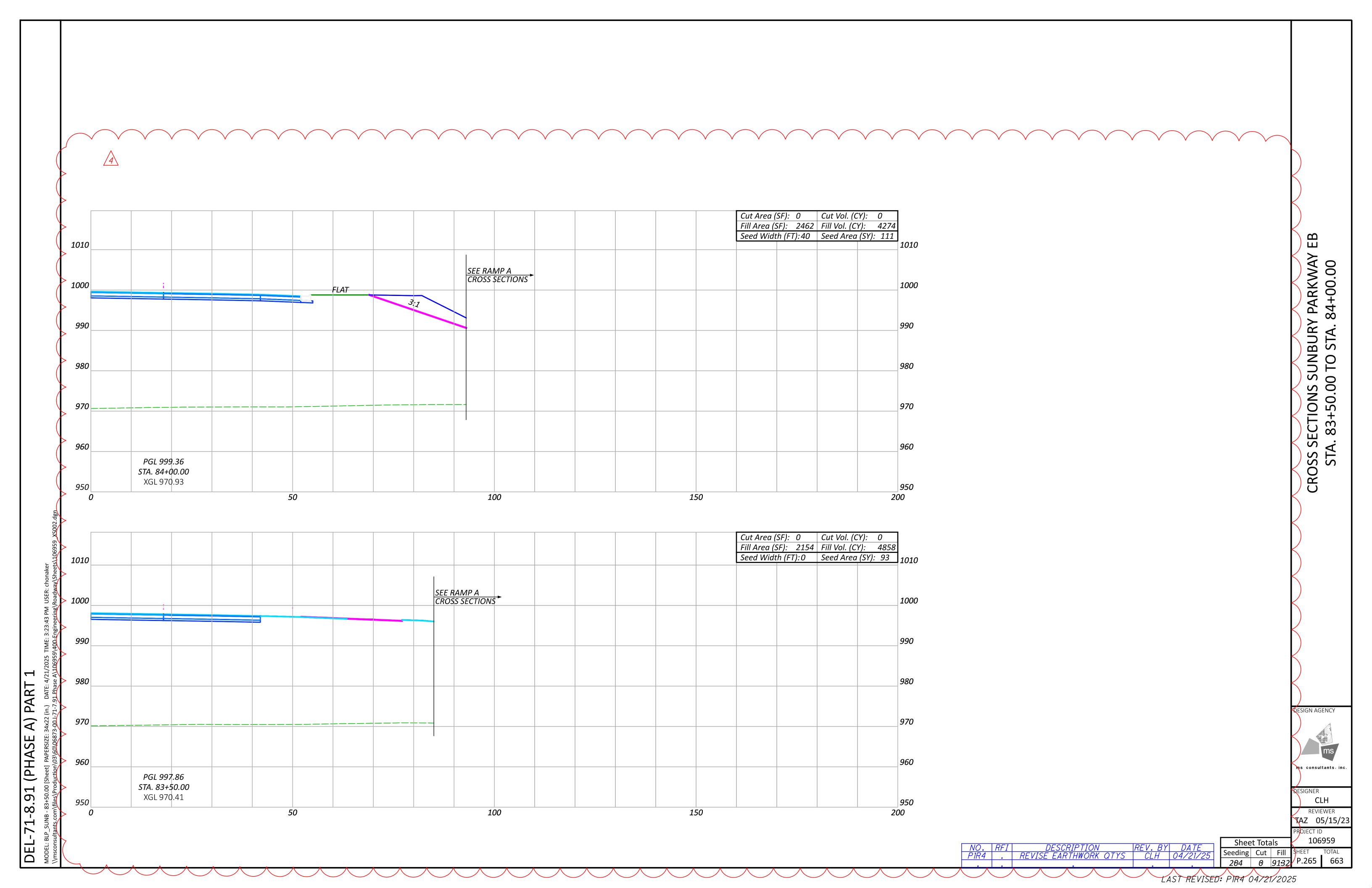


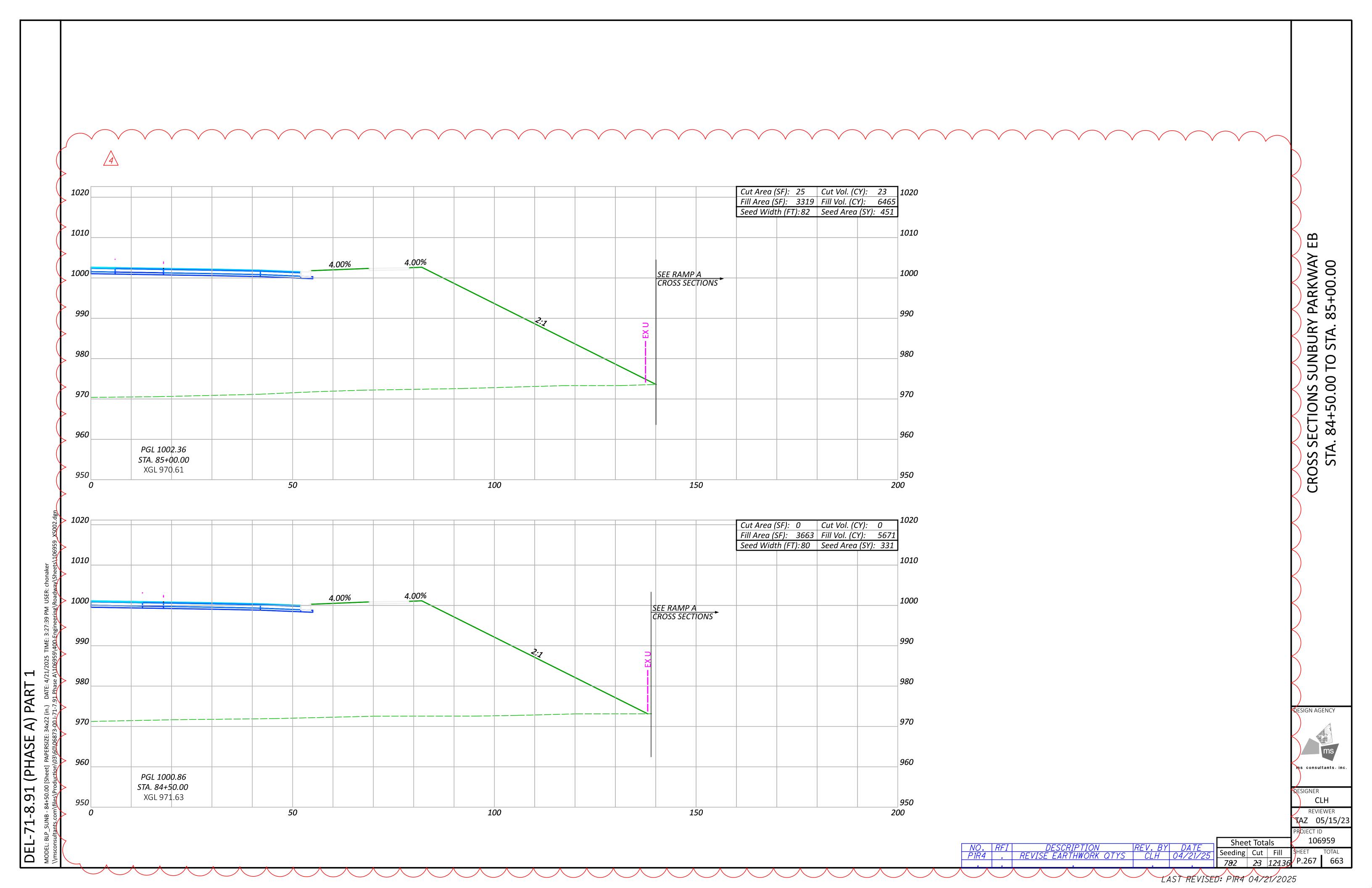


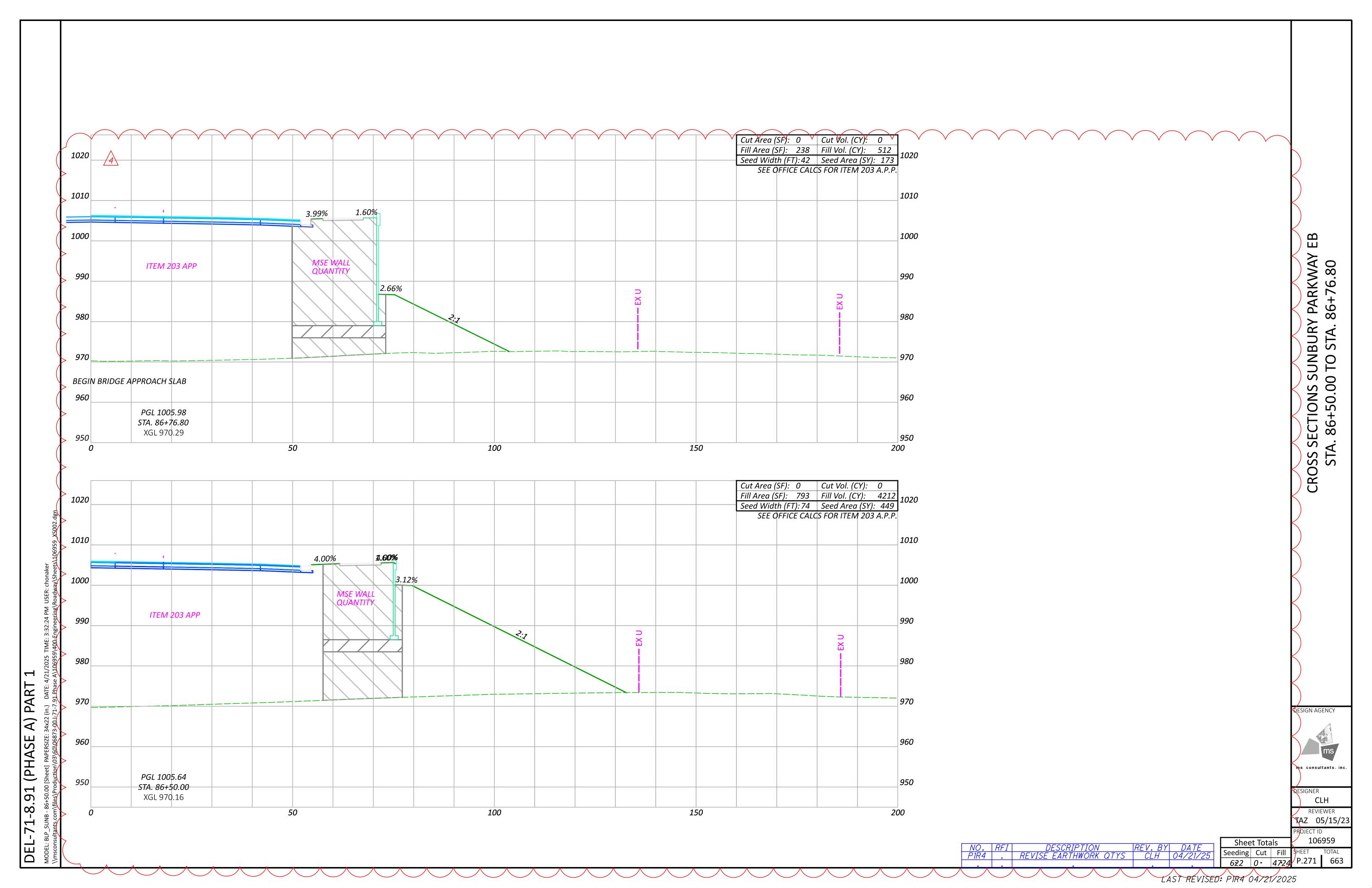


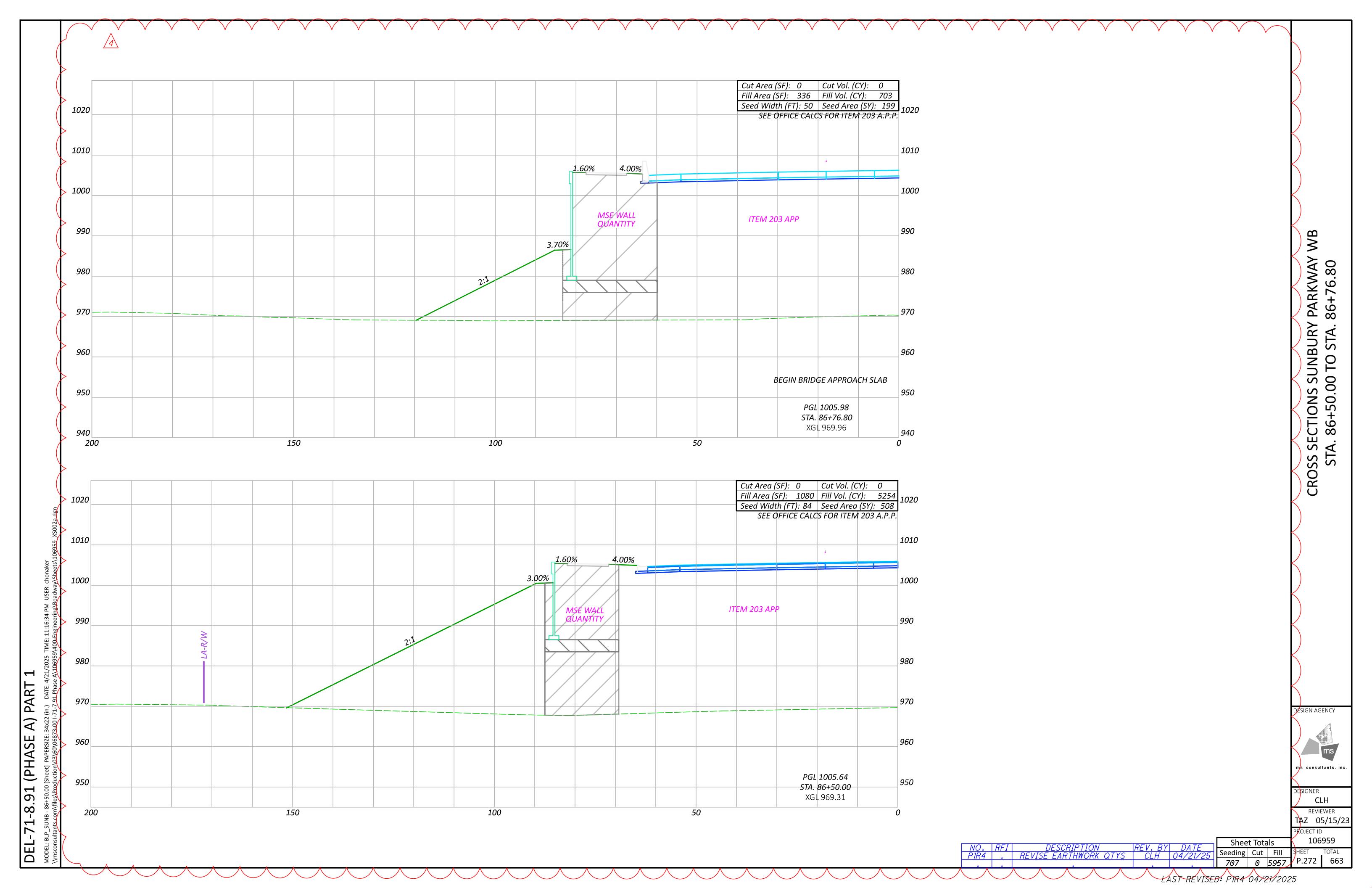


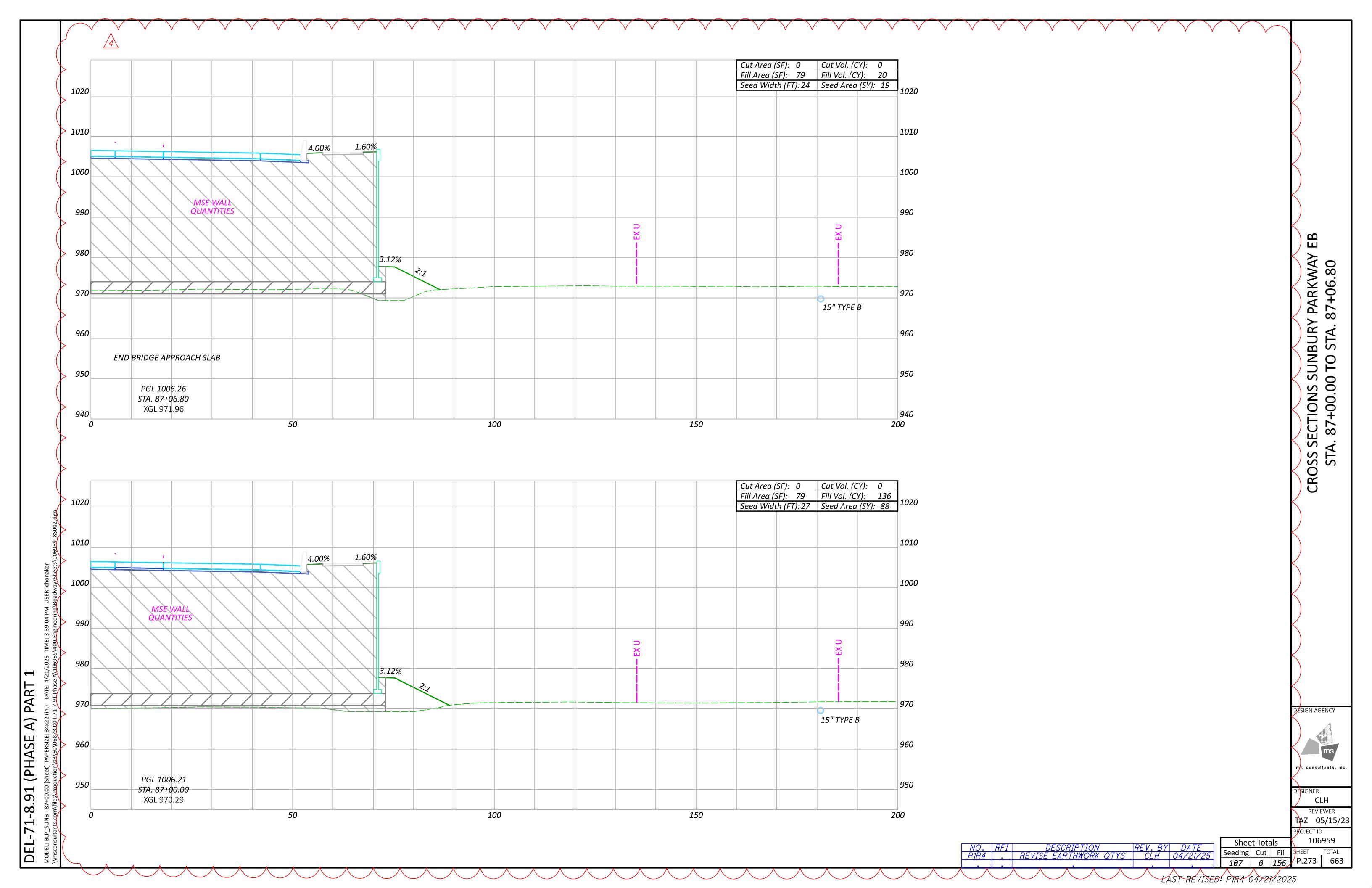


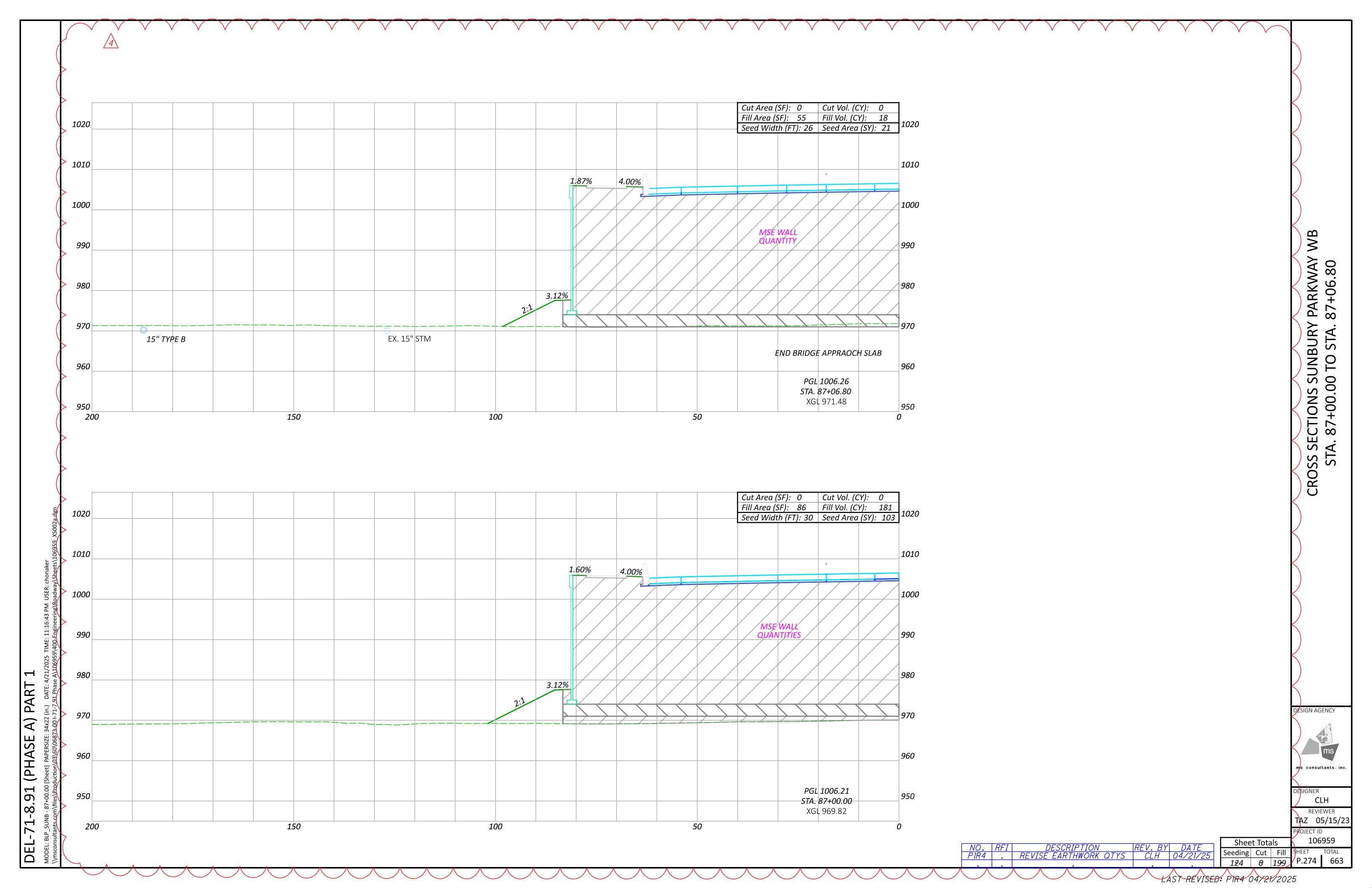


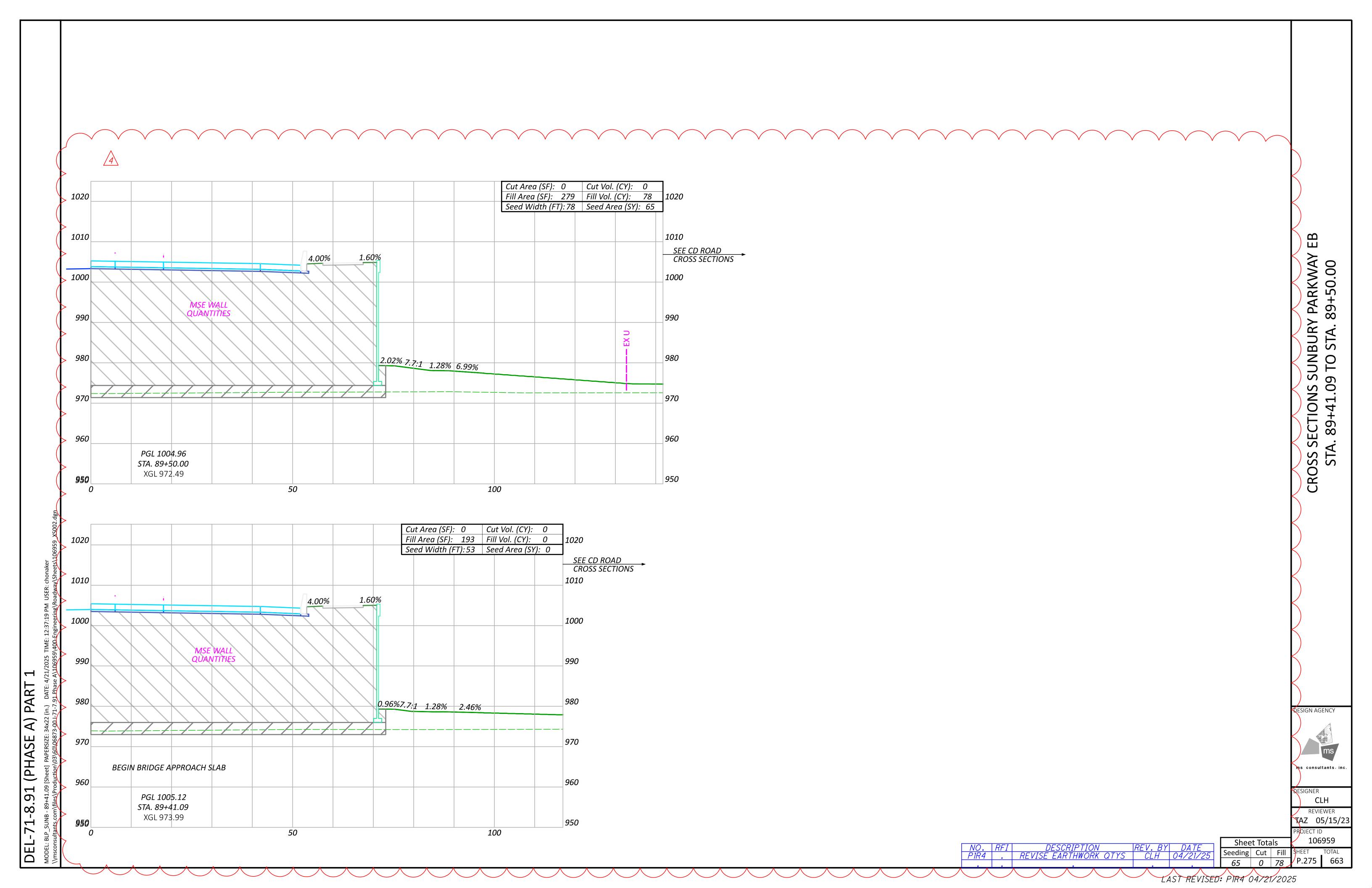












Cut Vol. (CY): 0 Fill Vol. (CY): 0 1020 Seed Width (FT): 9 Seed Area (SY): 9 1020 ✓ SEE CD ROAD

CROSS SECTIONS 1010 1010 <mark>⊓</mark>1.60% 4.00% 1000 1000 990 980 970 960 960 PGL 1004.96 STA. 89+50.00 XGL 972.48 950 950 *50* Cut Area (SF): 0 Cut Vol. (CY): 0 Fill Area (SF): 0 Fill Vol. (CY): 0 Seed Width (FT): 9 Seed Area (SY): 0 1020 1020 ✓ SEE CD ROAD

CROSS SECTIONS 1010 1010 1.60% 4.00% 1000 1000 990 A) PART 980 71-8.91 (PHASE 970 BEGIN BRIDGE APPROACH SLAB 960 960 PGL 1005.12 STA. 89+41.09 XGL 974.15 \_\_950 0 950 50

CROSS SECTIONS SUNBURY PARKWAY WB STA. 89+41.09 TO STA. 89+50.00

DESIGN AGENCY

ms consultants, inc

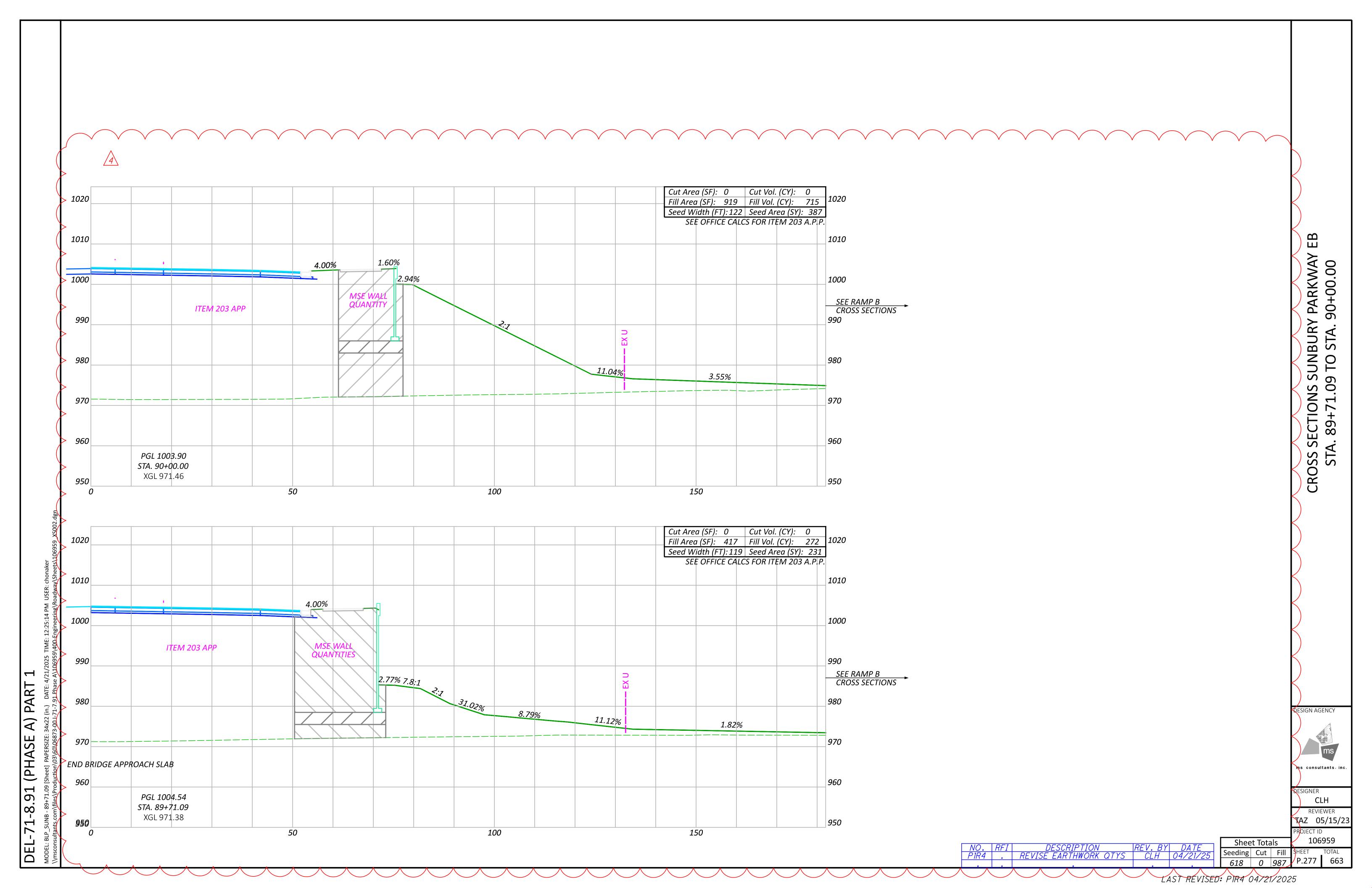
DESIGNER
CLH
REVIEWER
TAZ 05/15/23

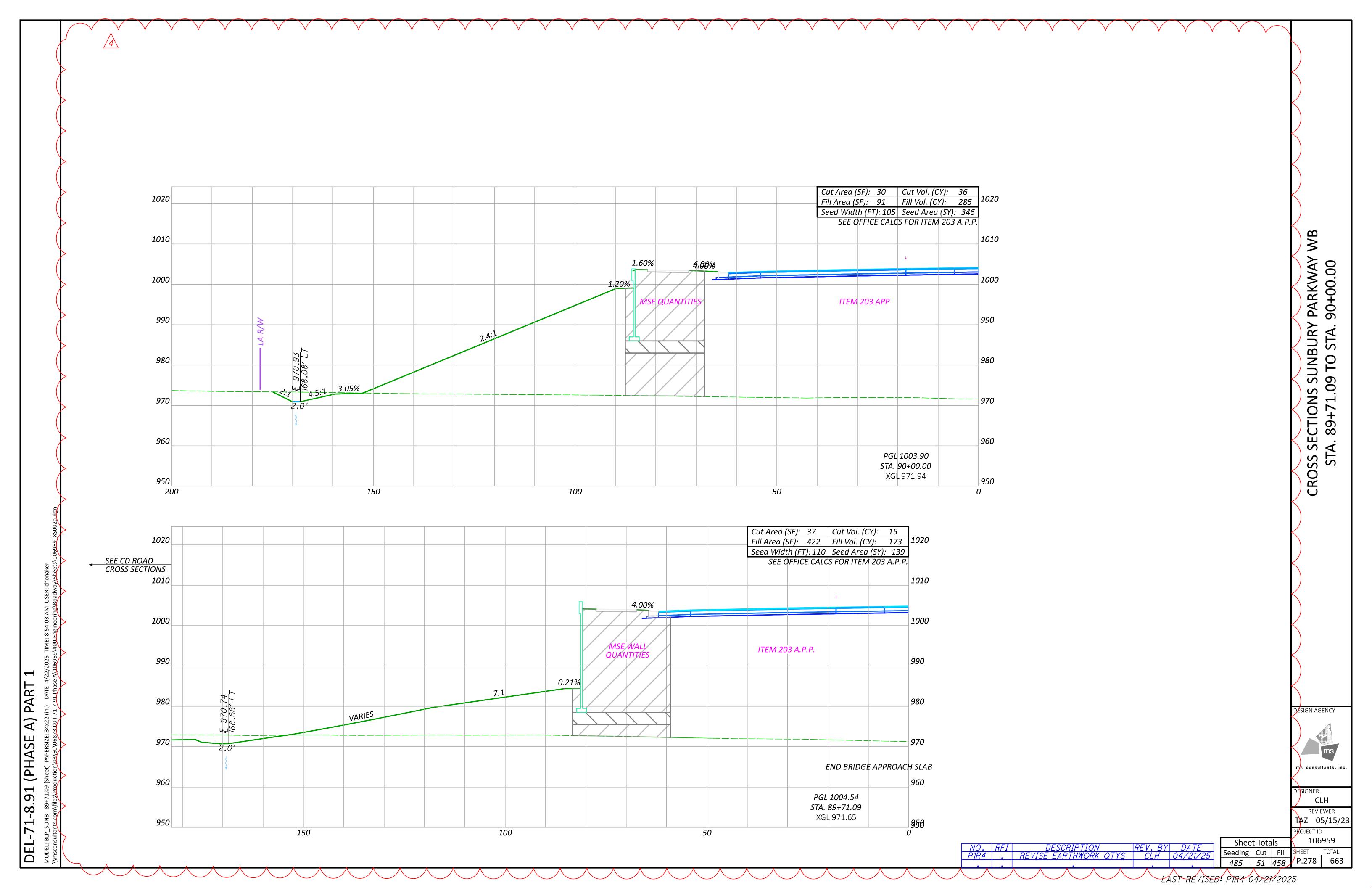
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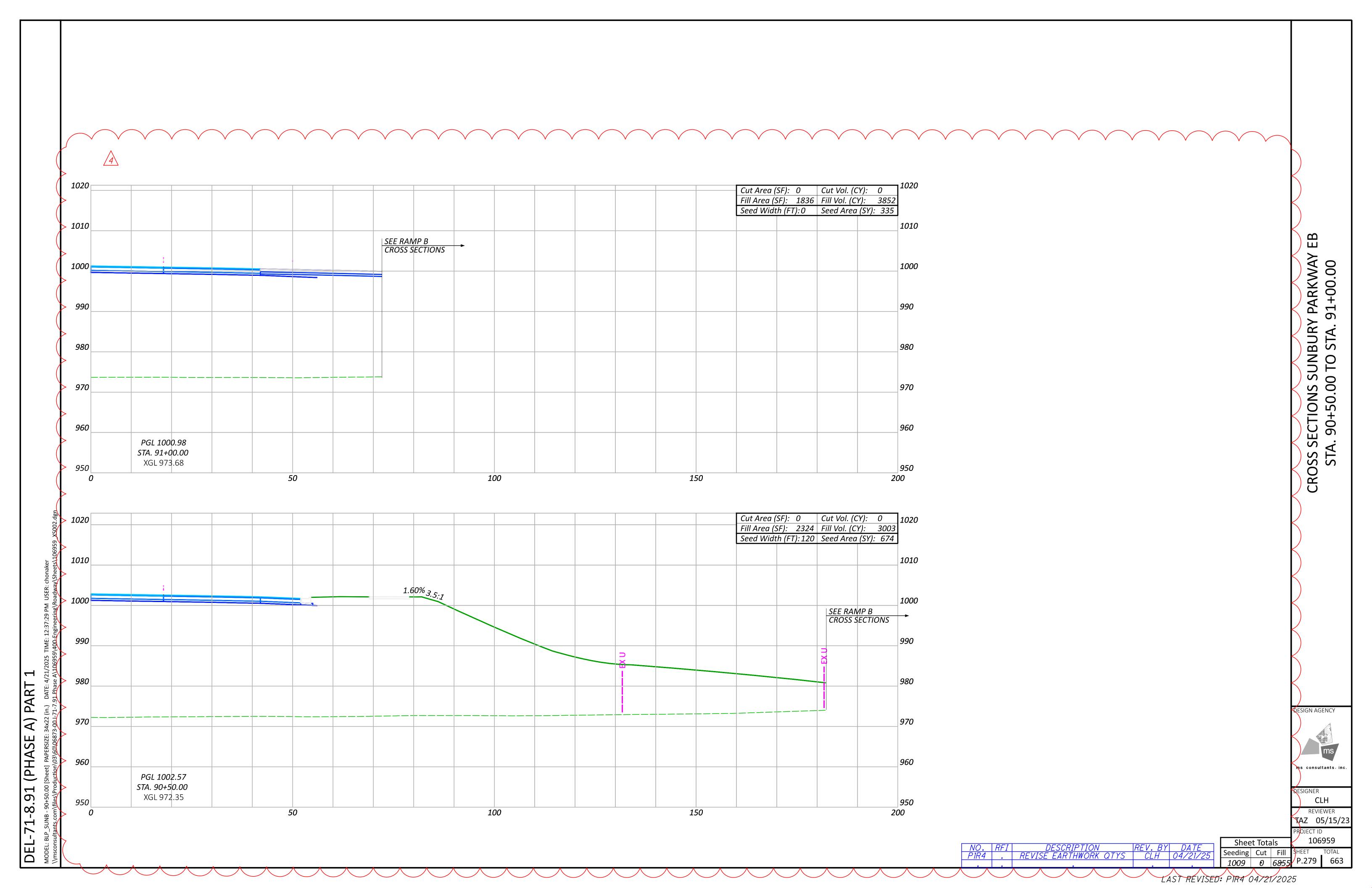
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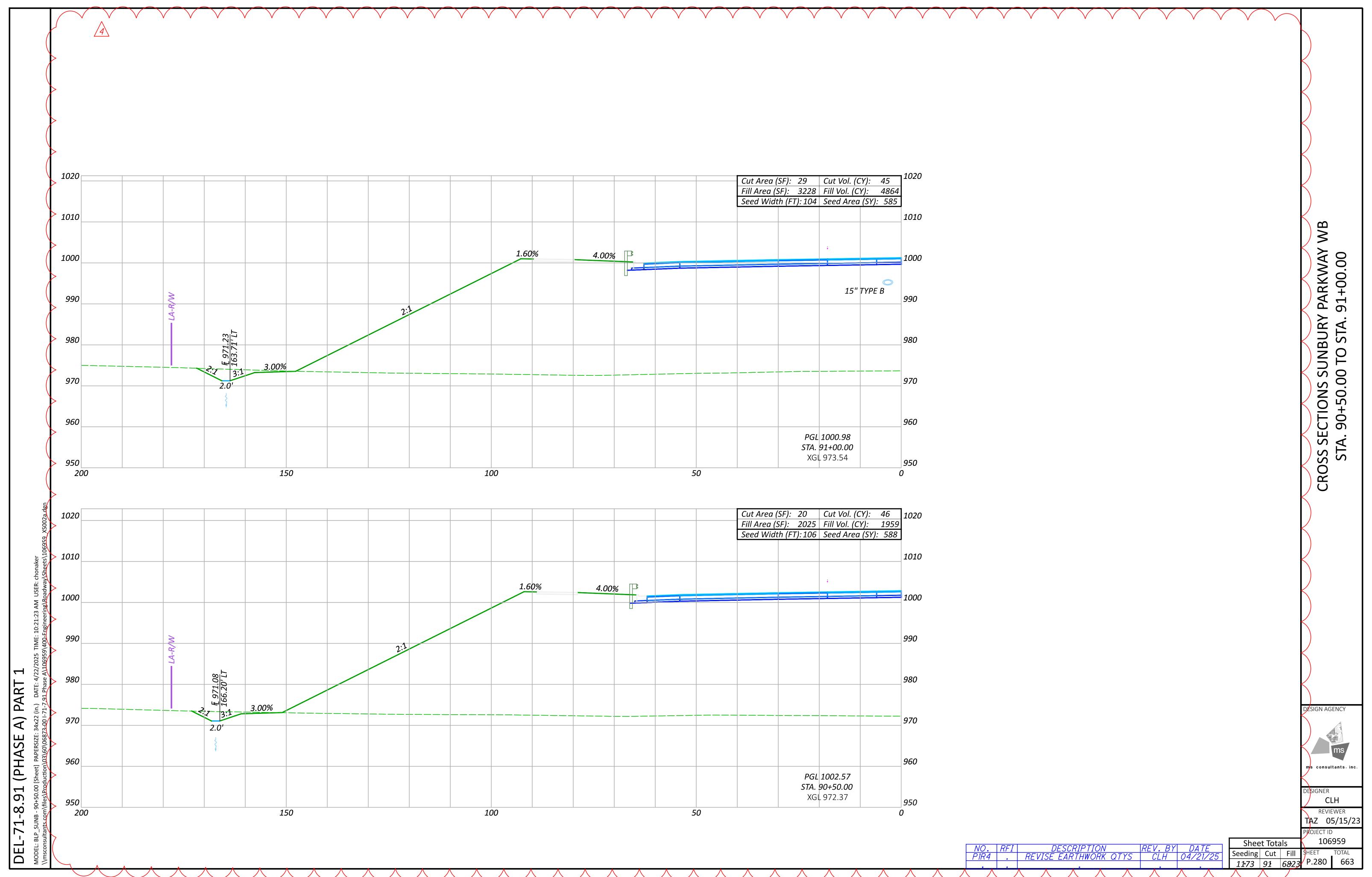
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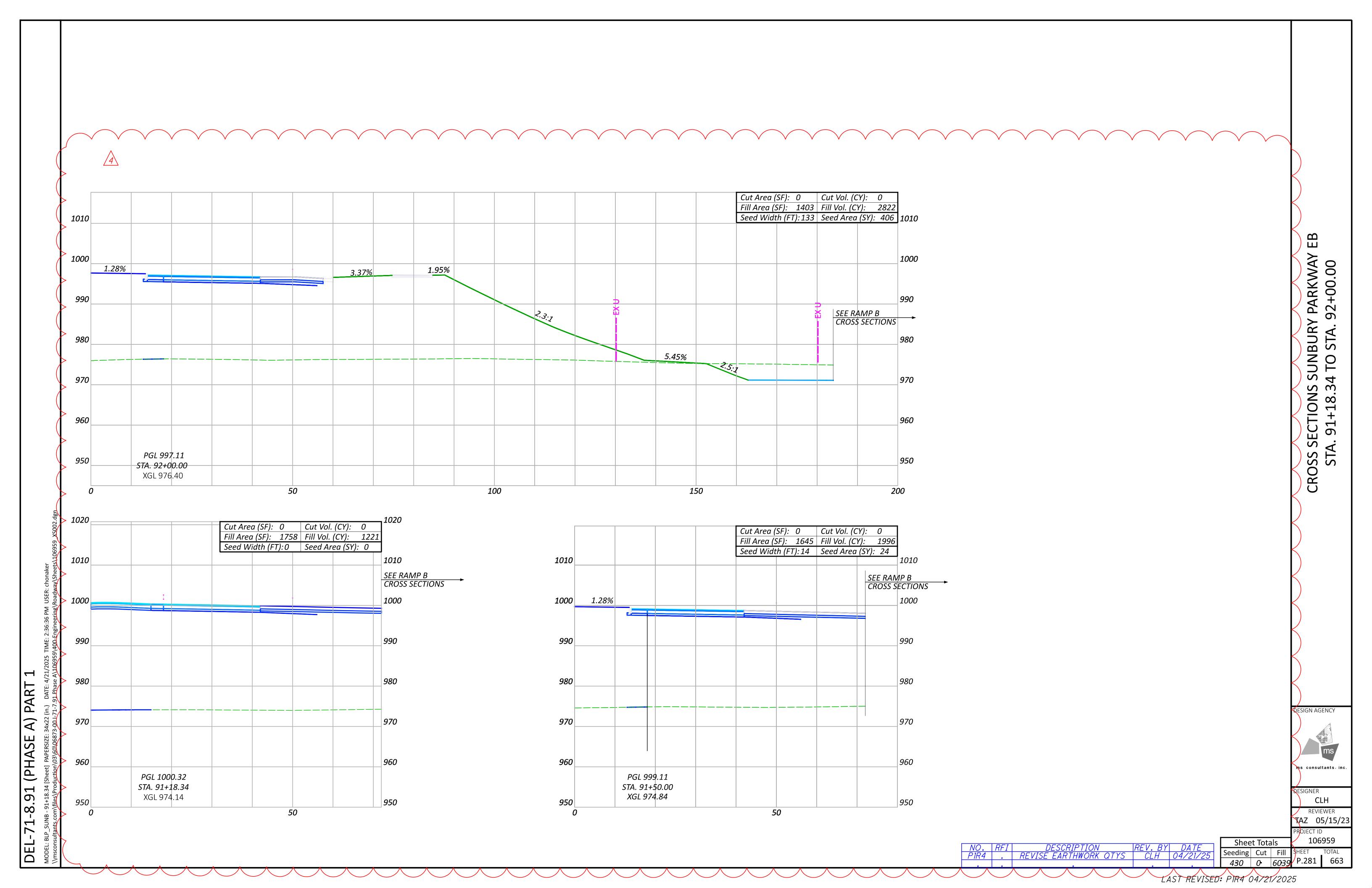


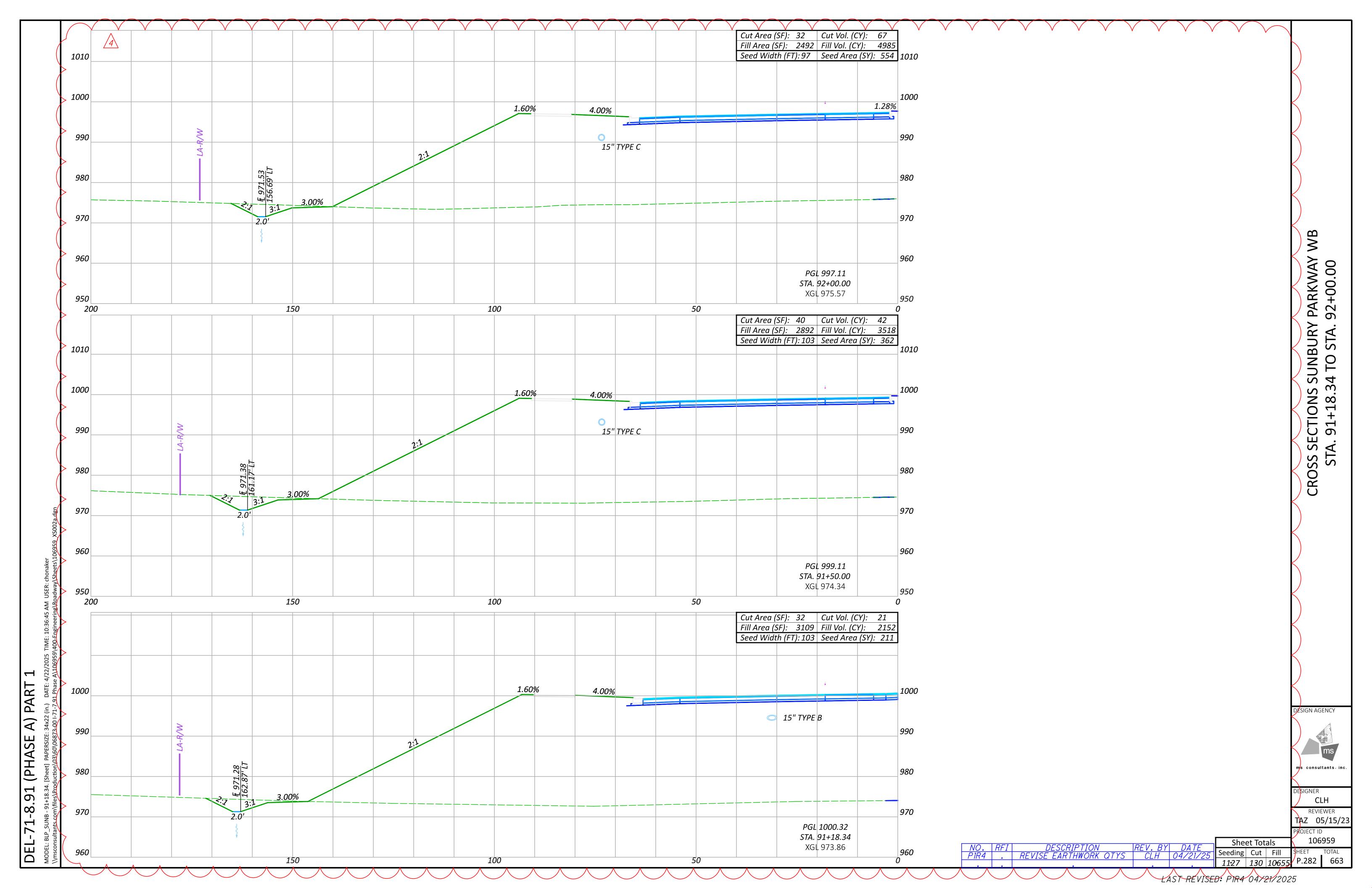


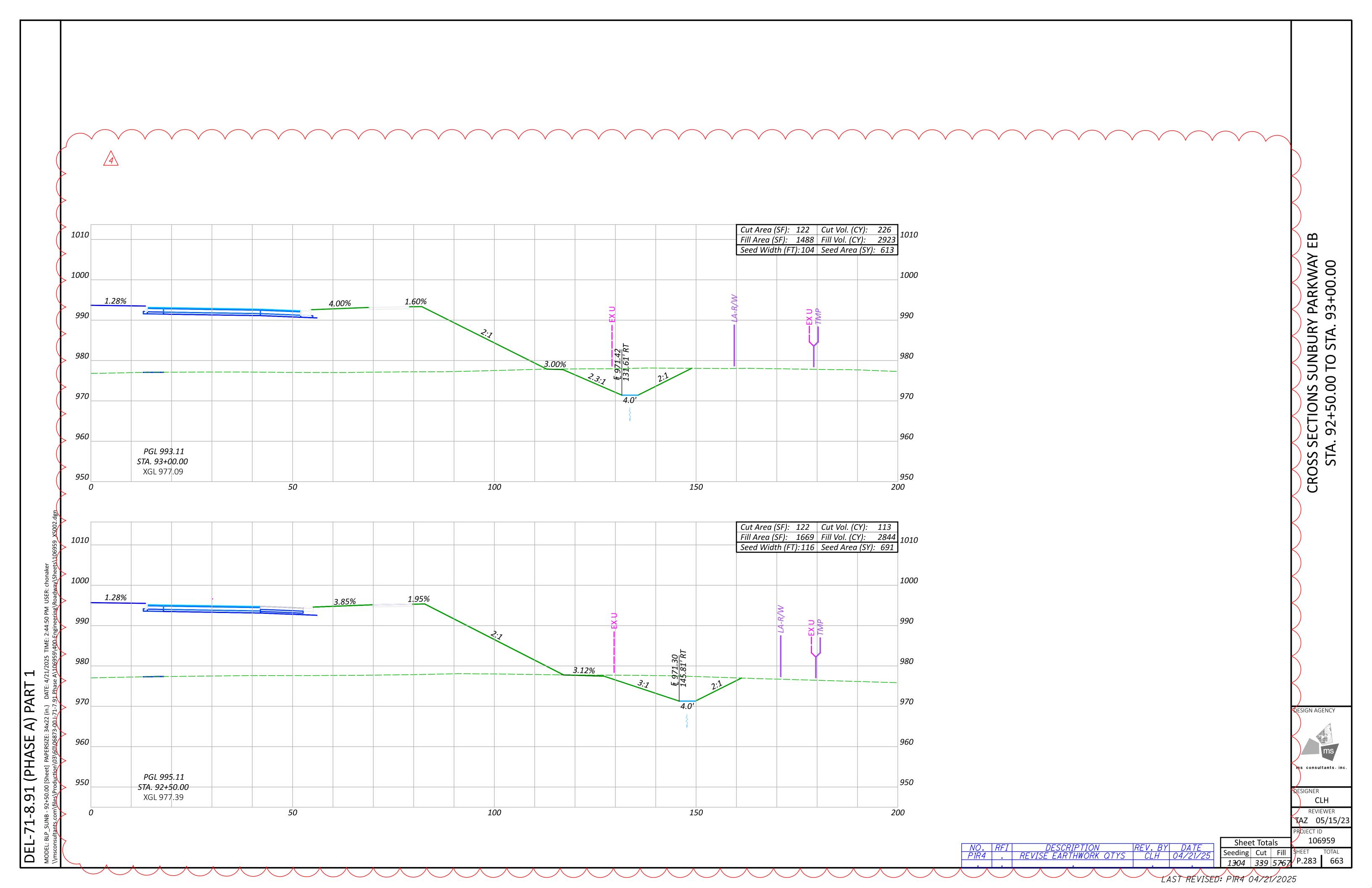


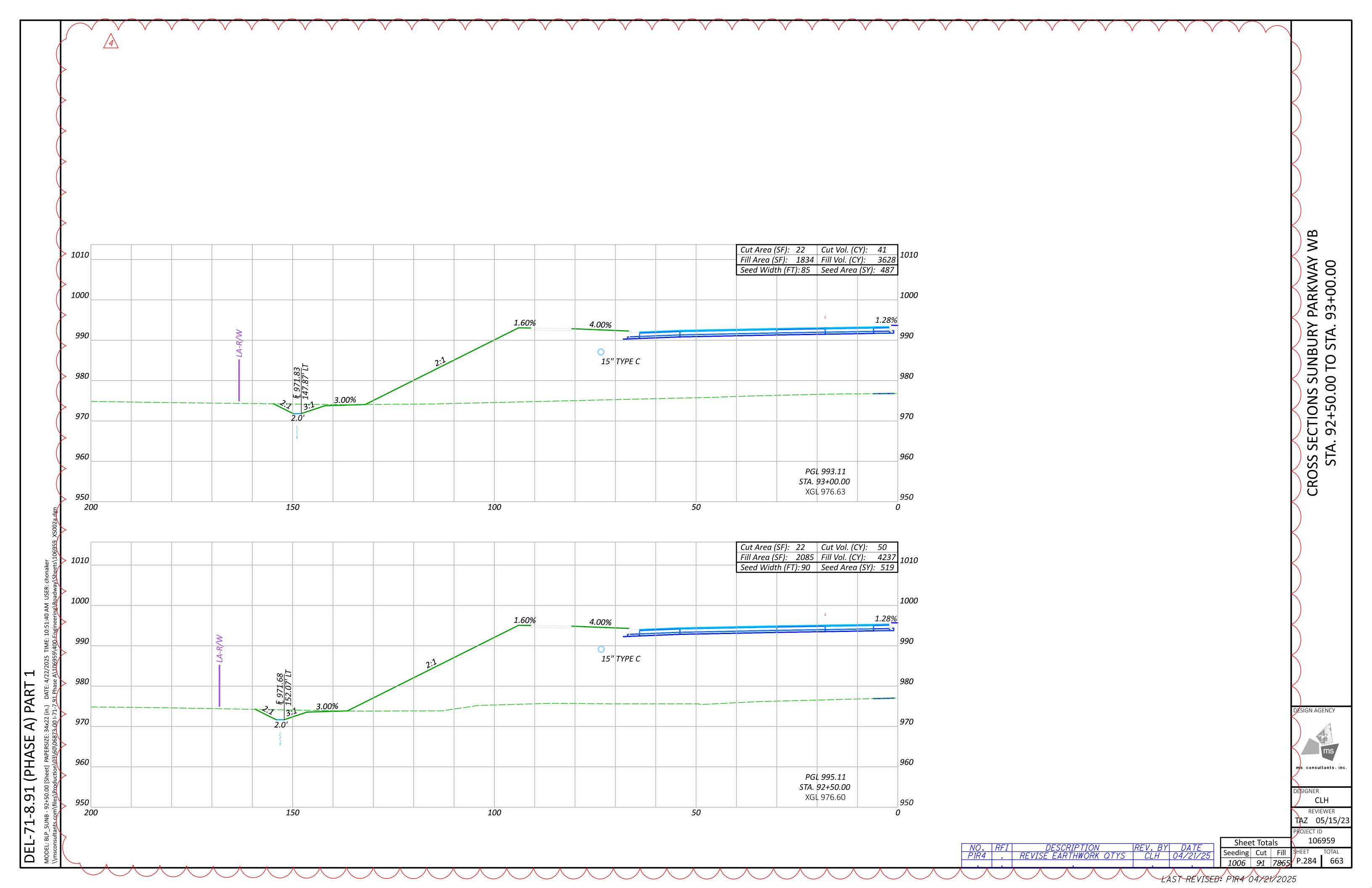


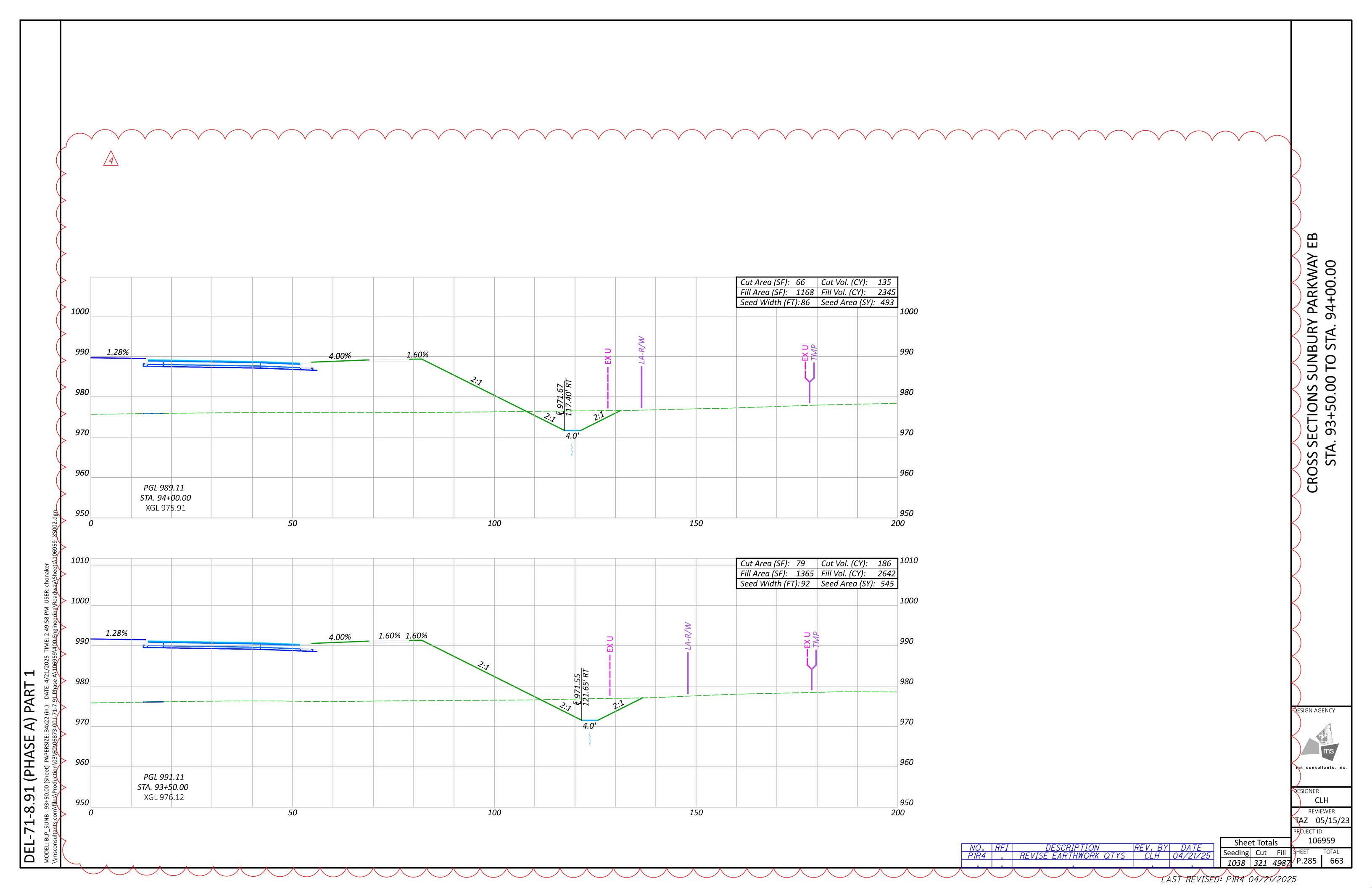
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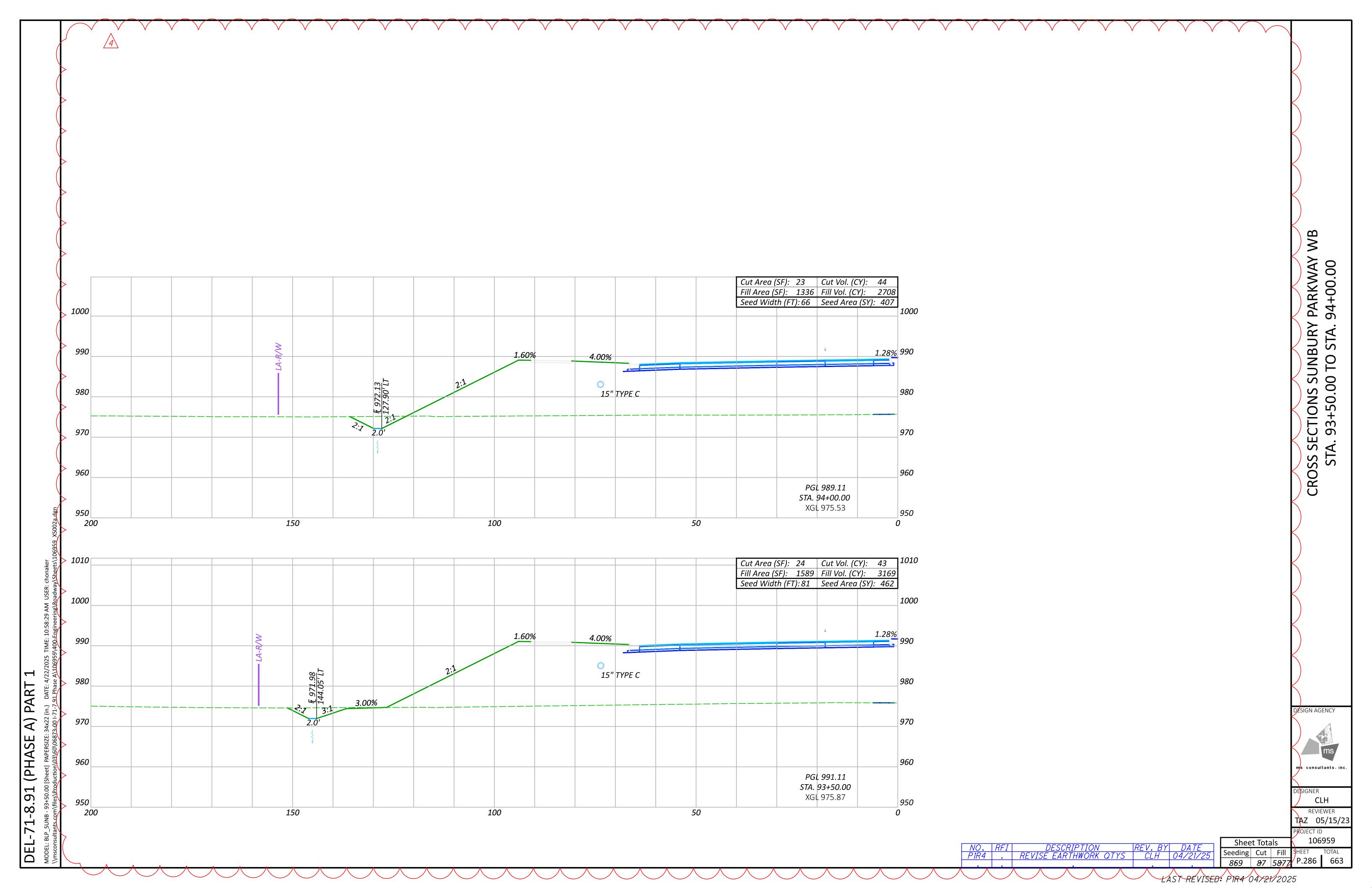


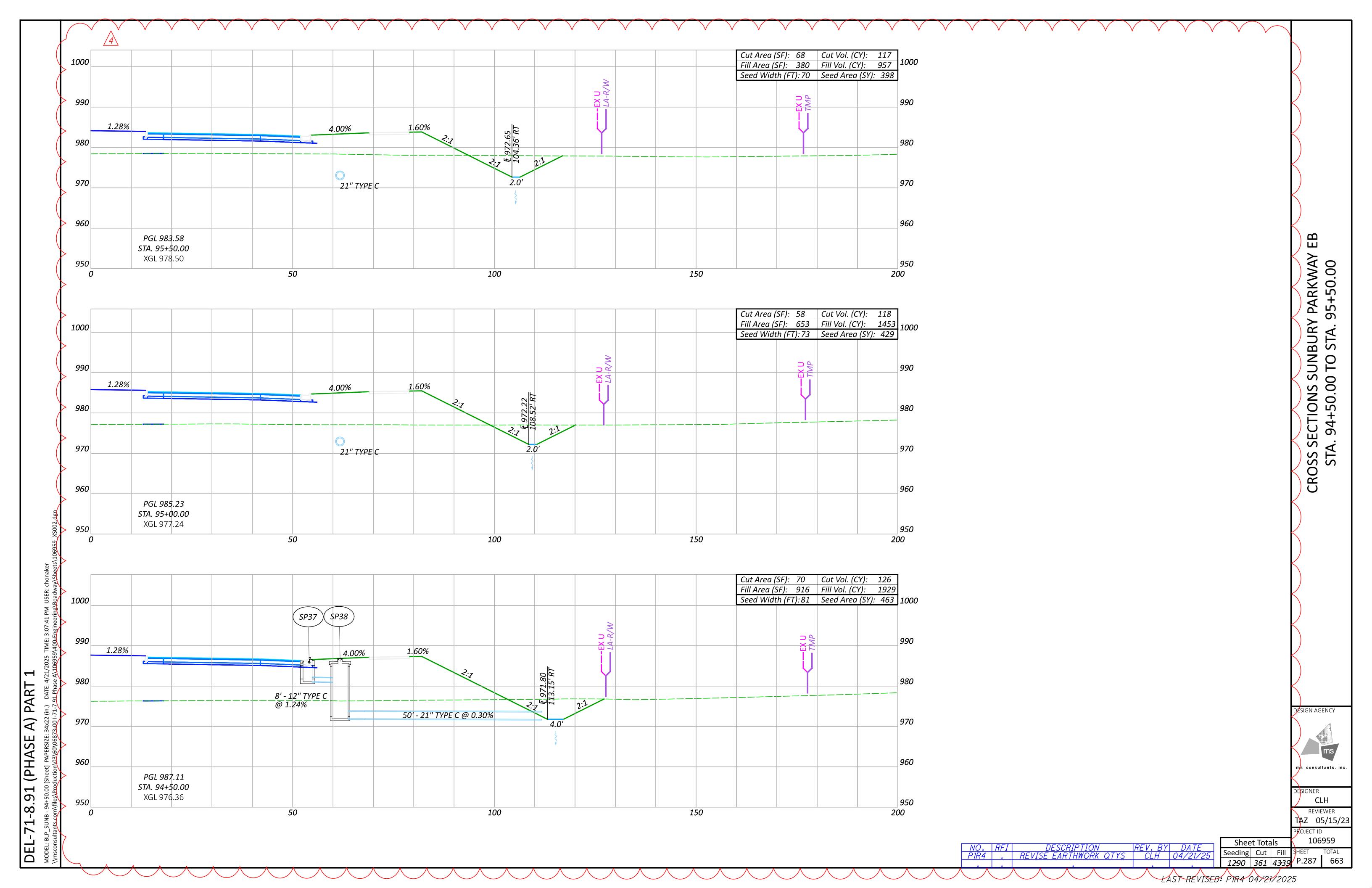


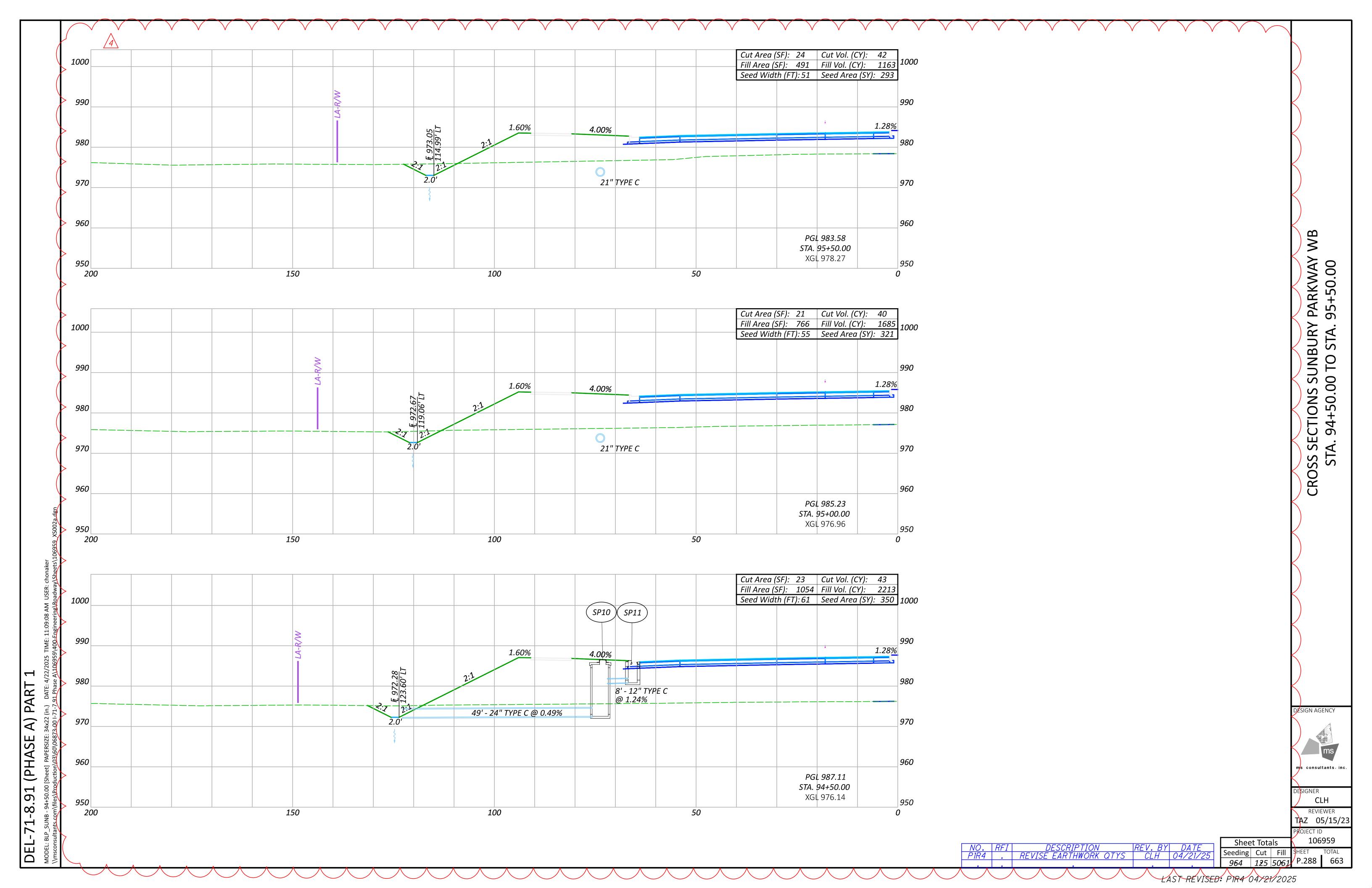


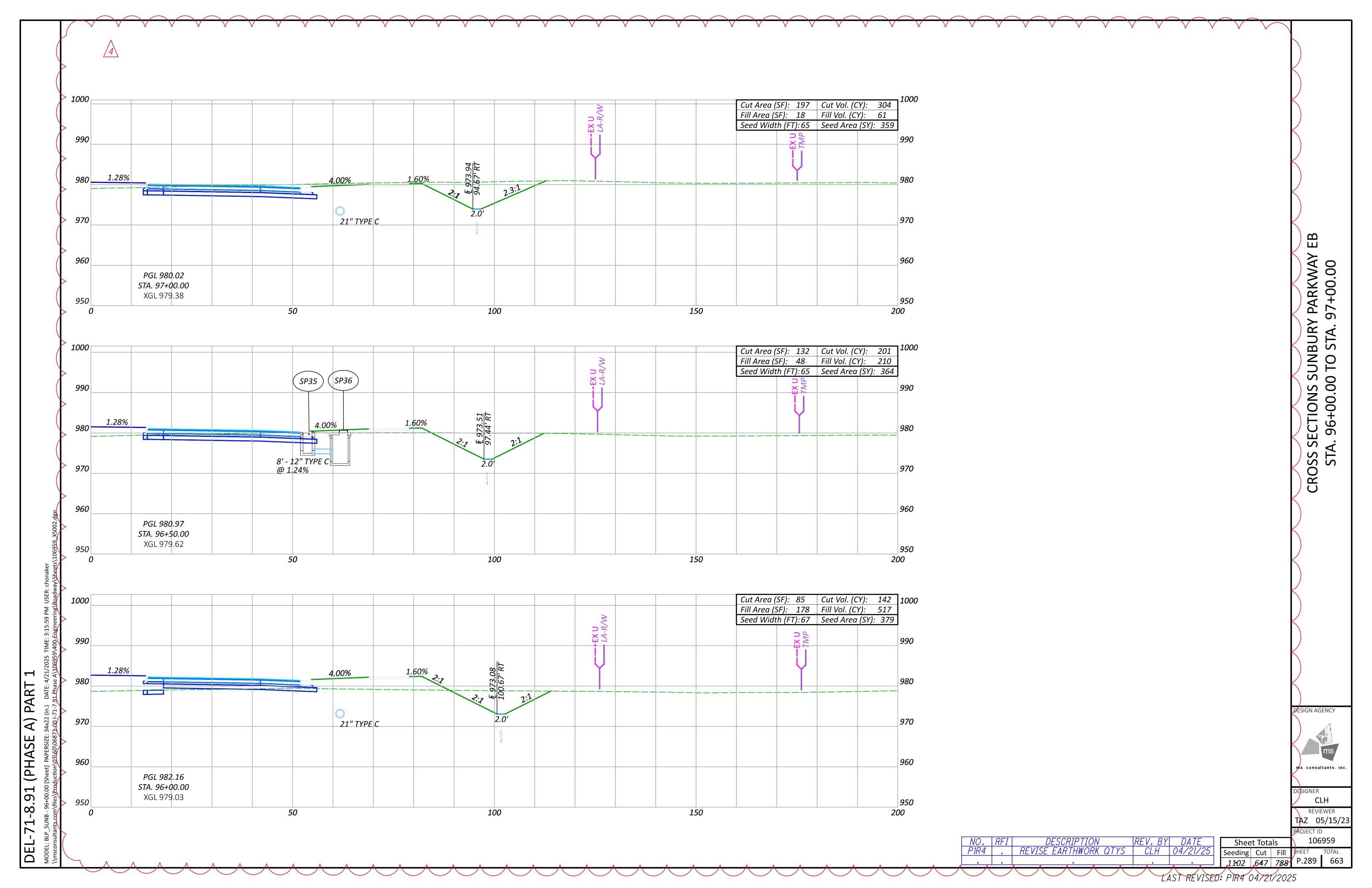


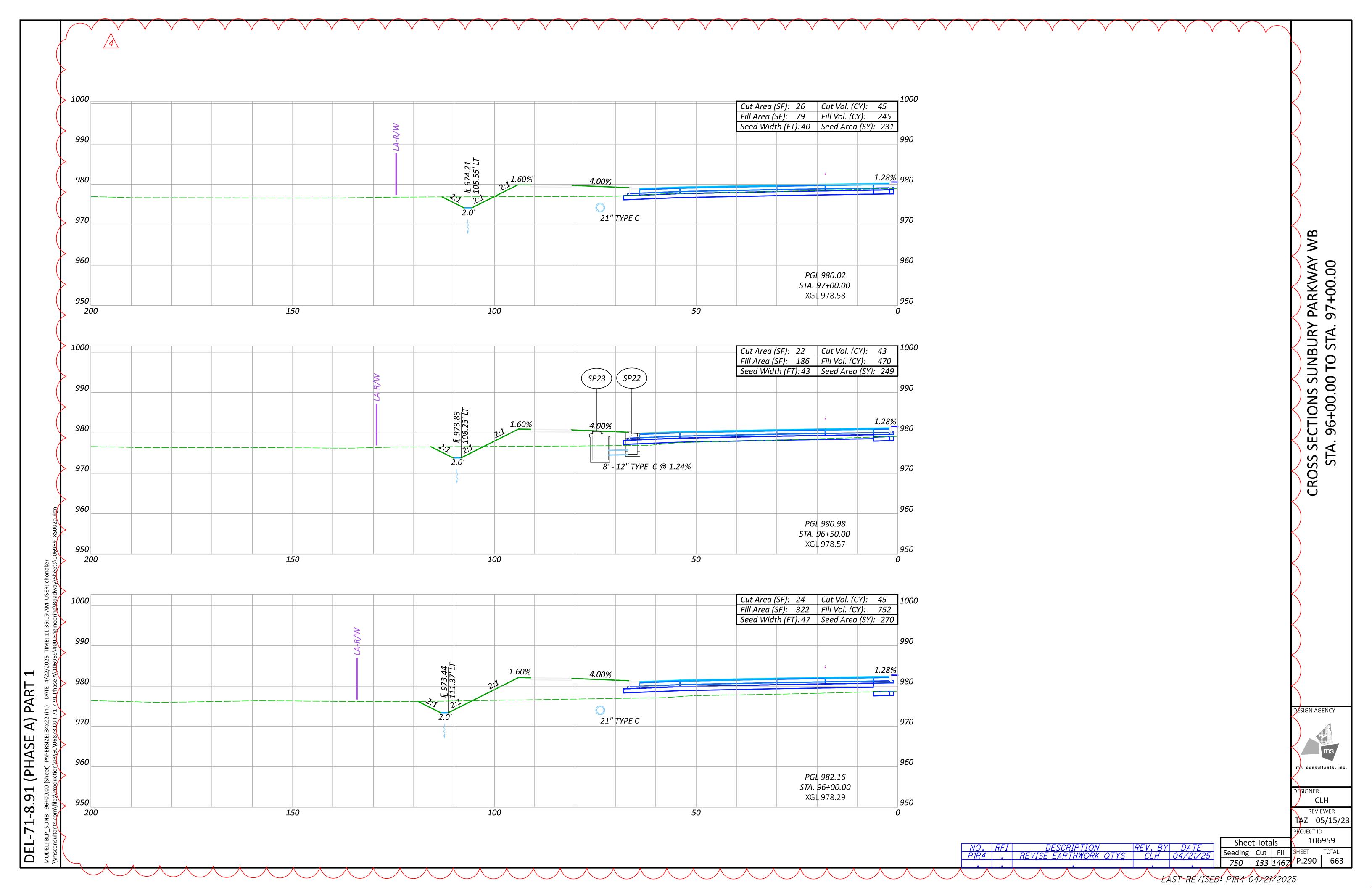


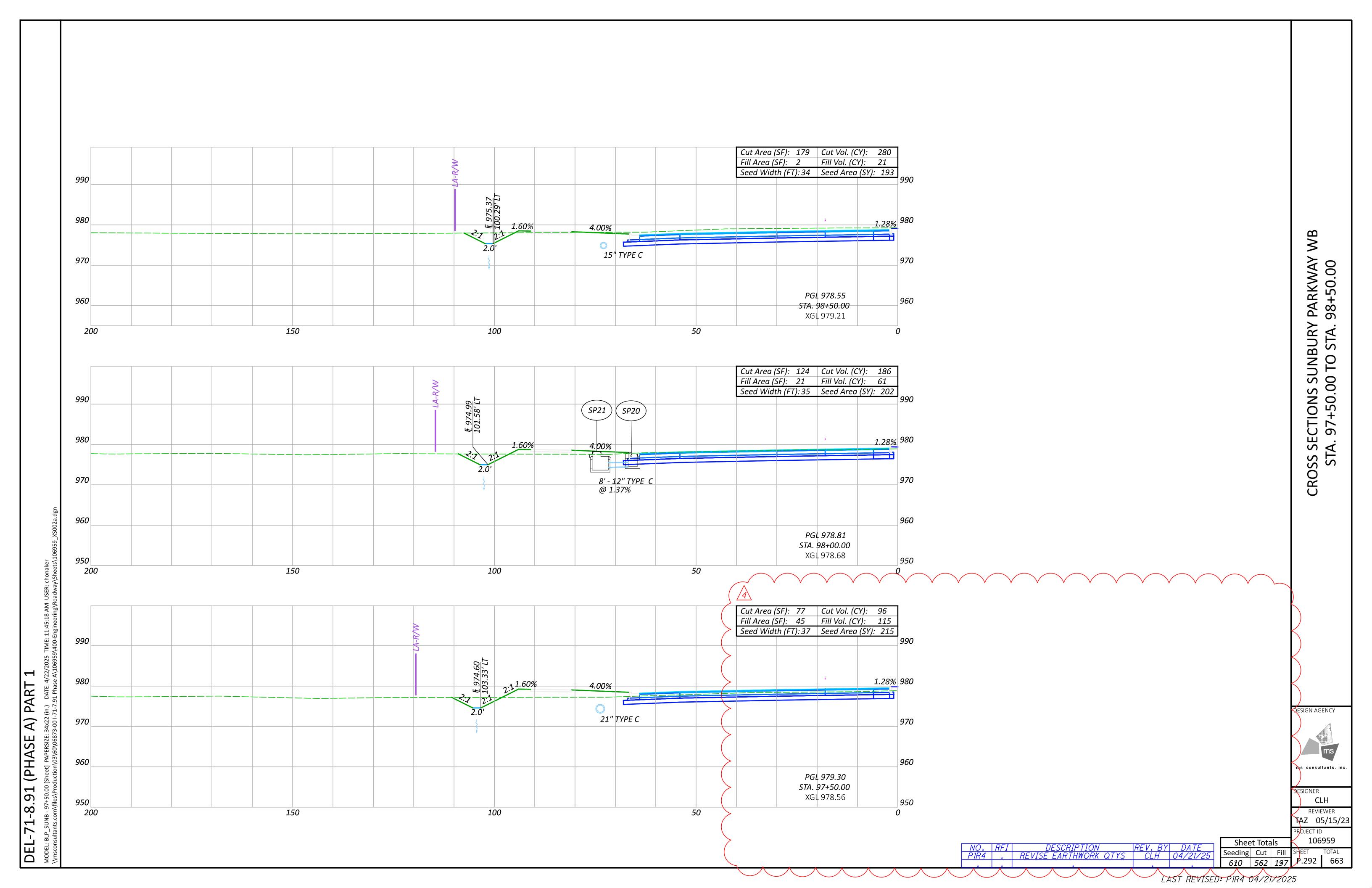


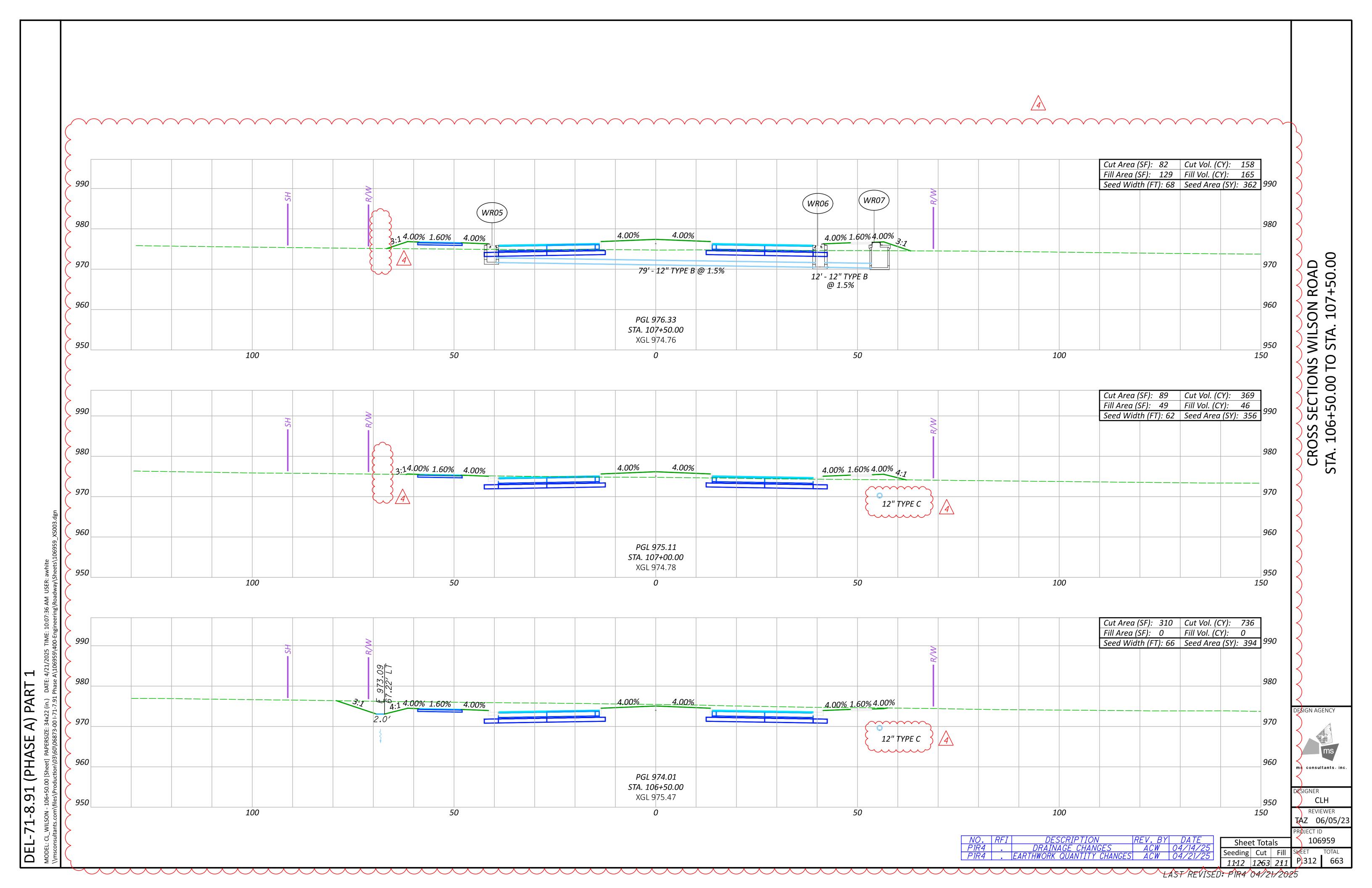


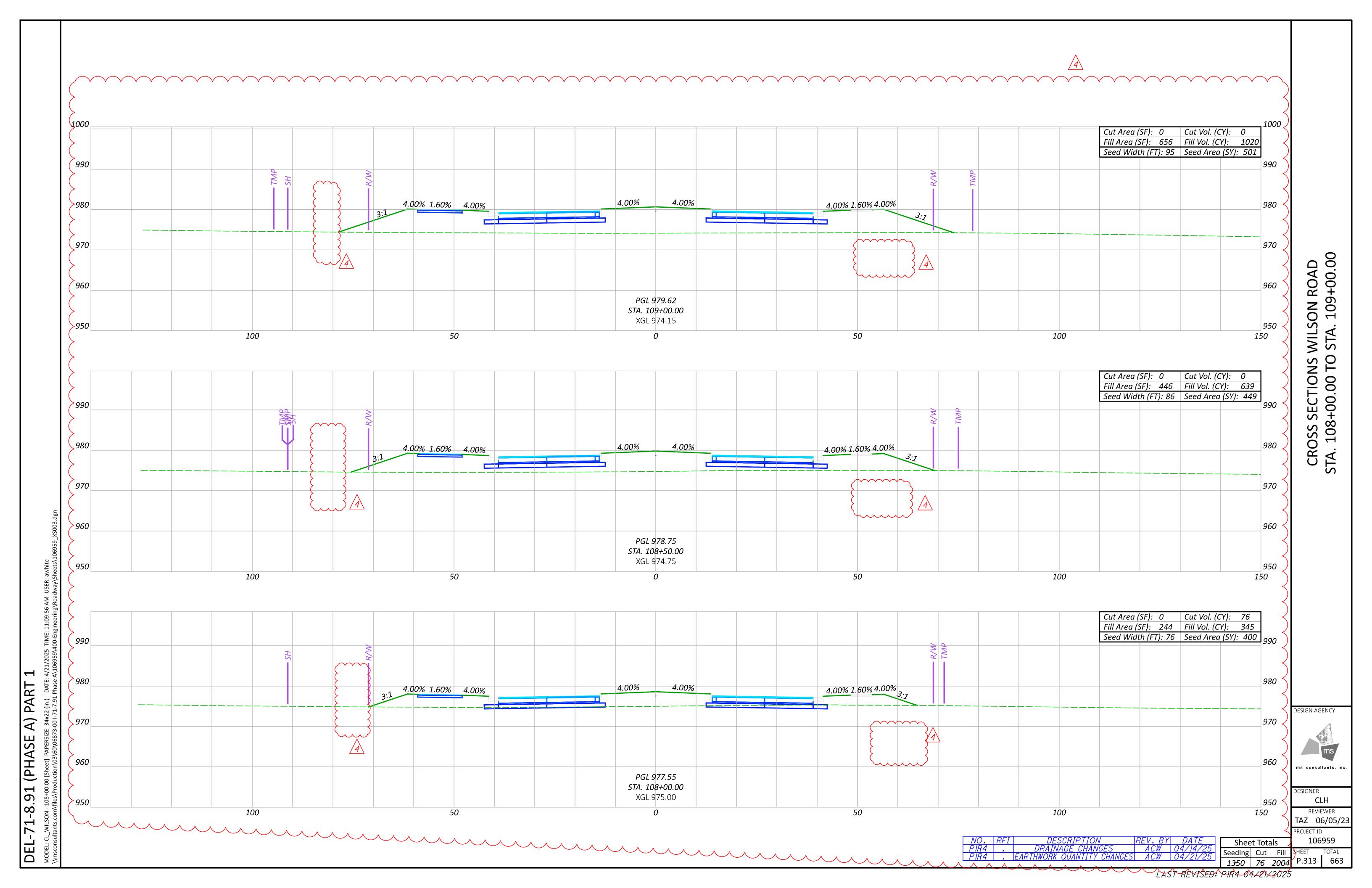


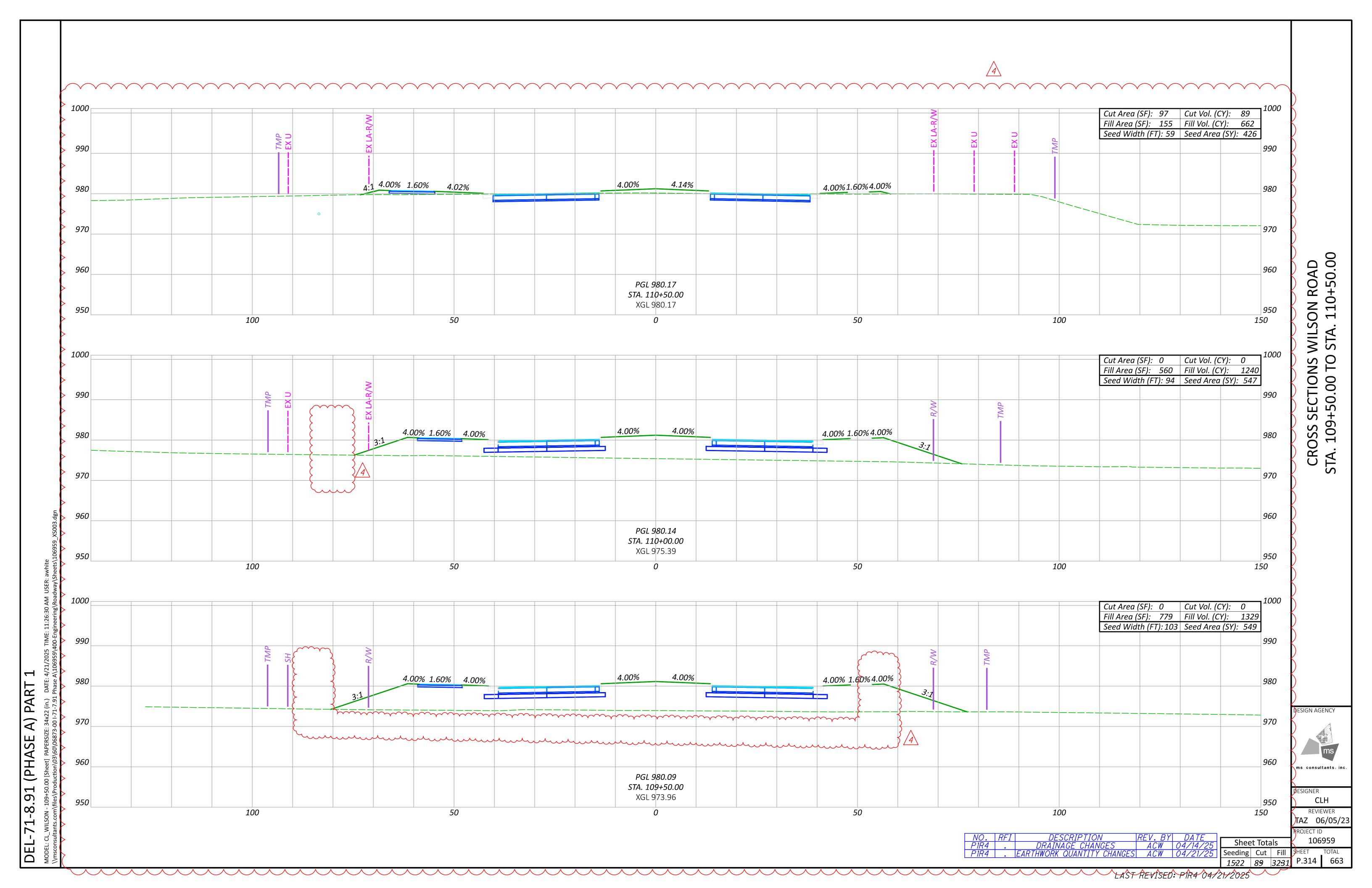


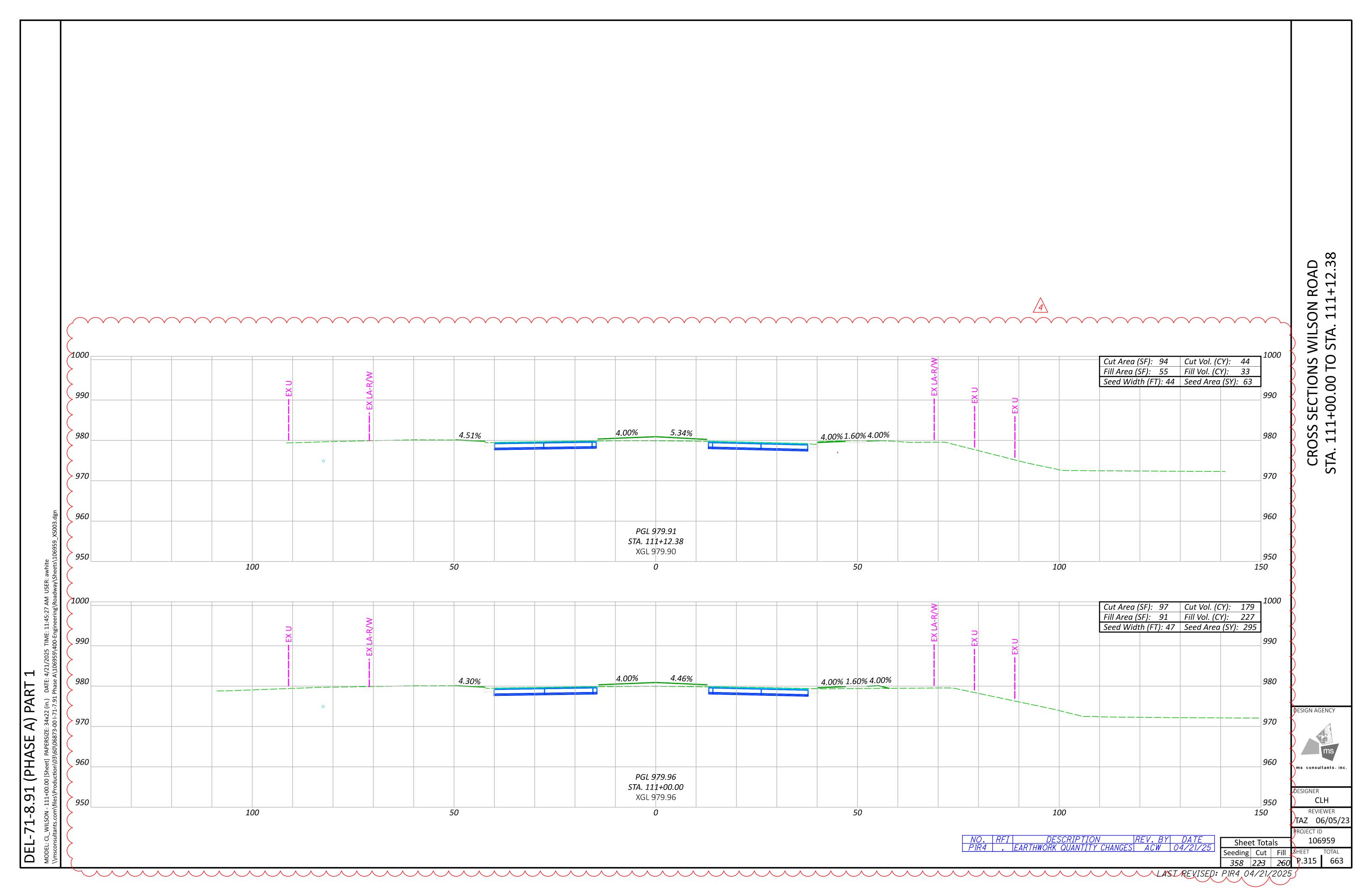


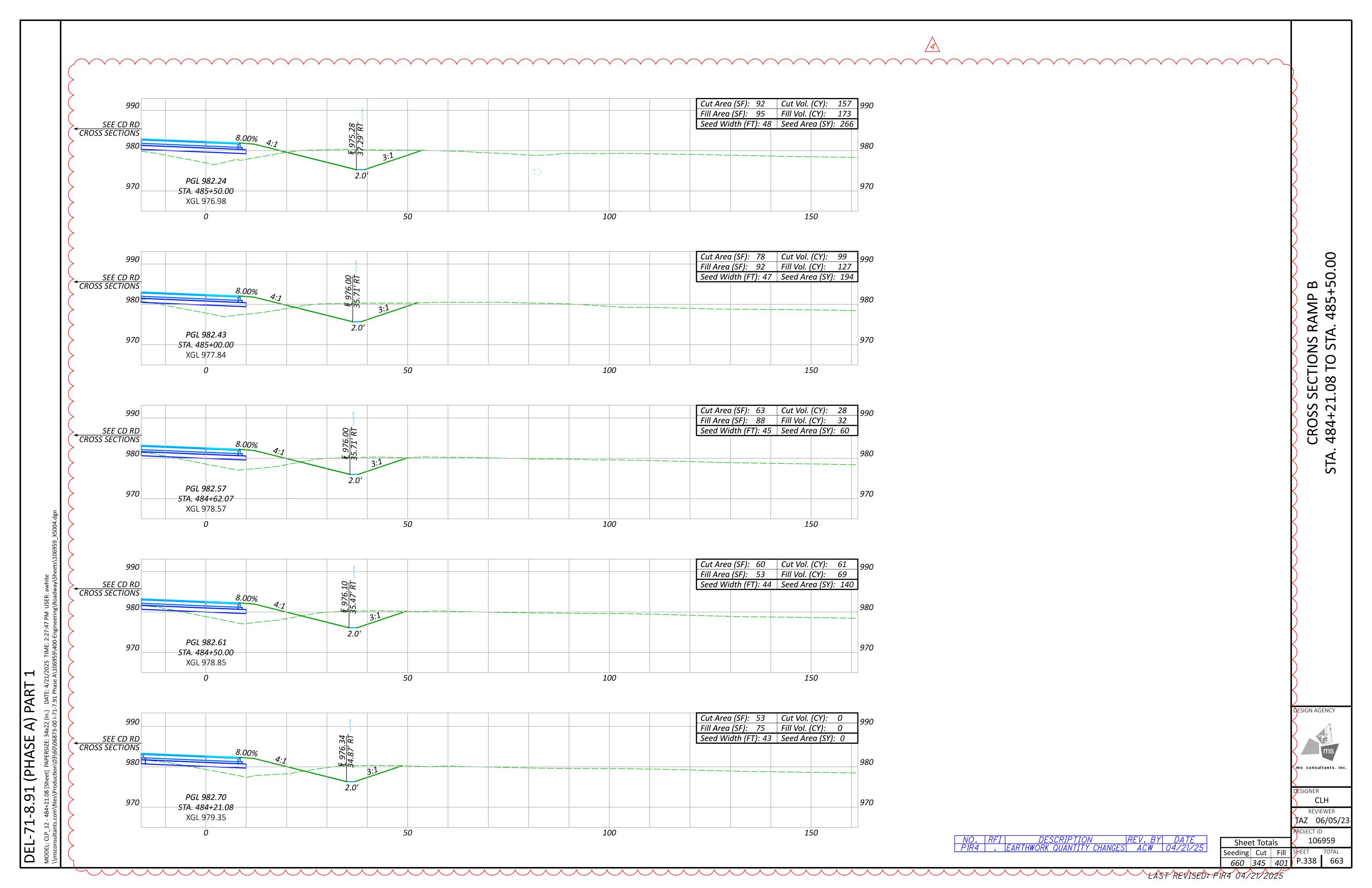


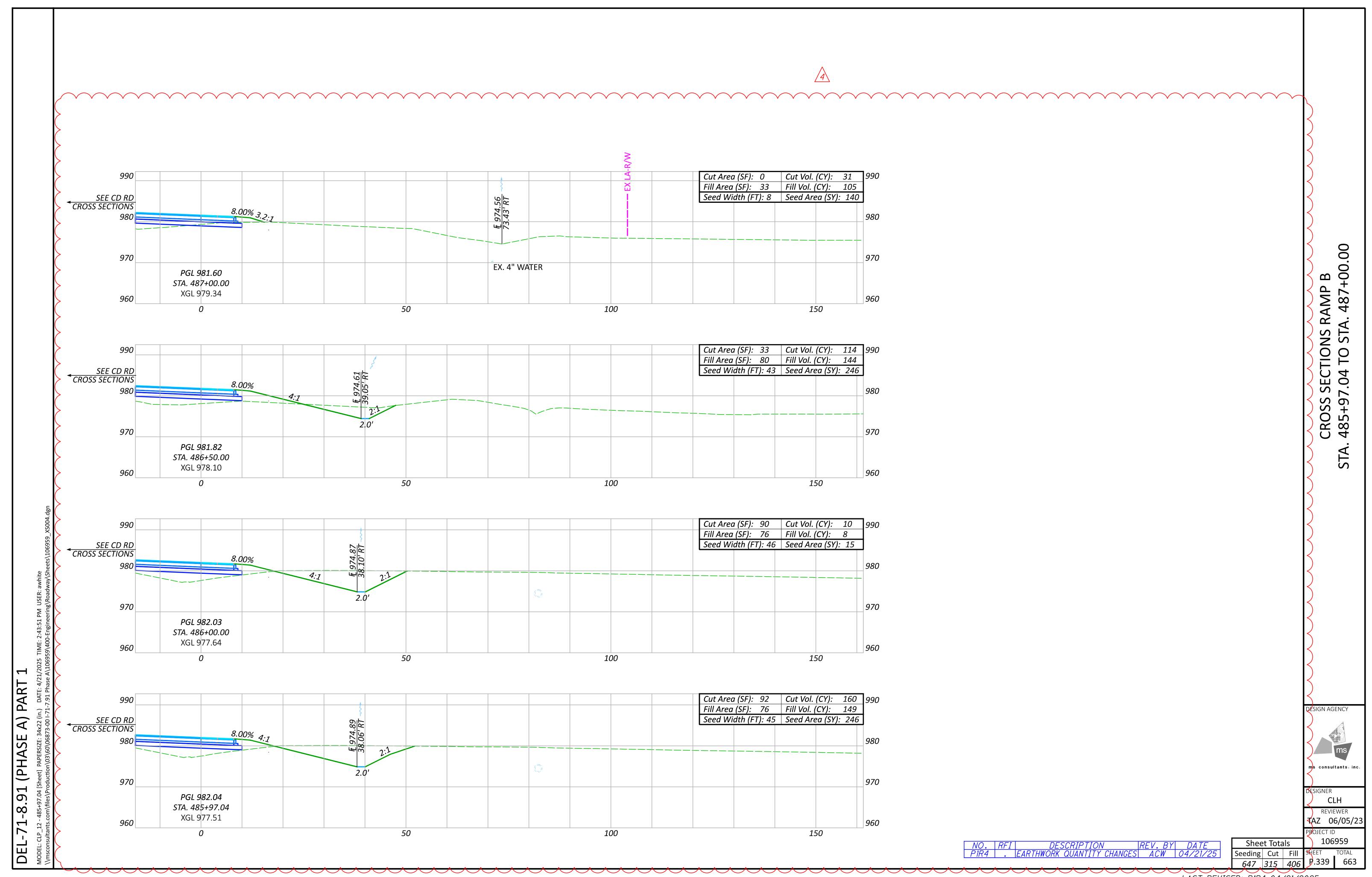


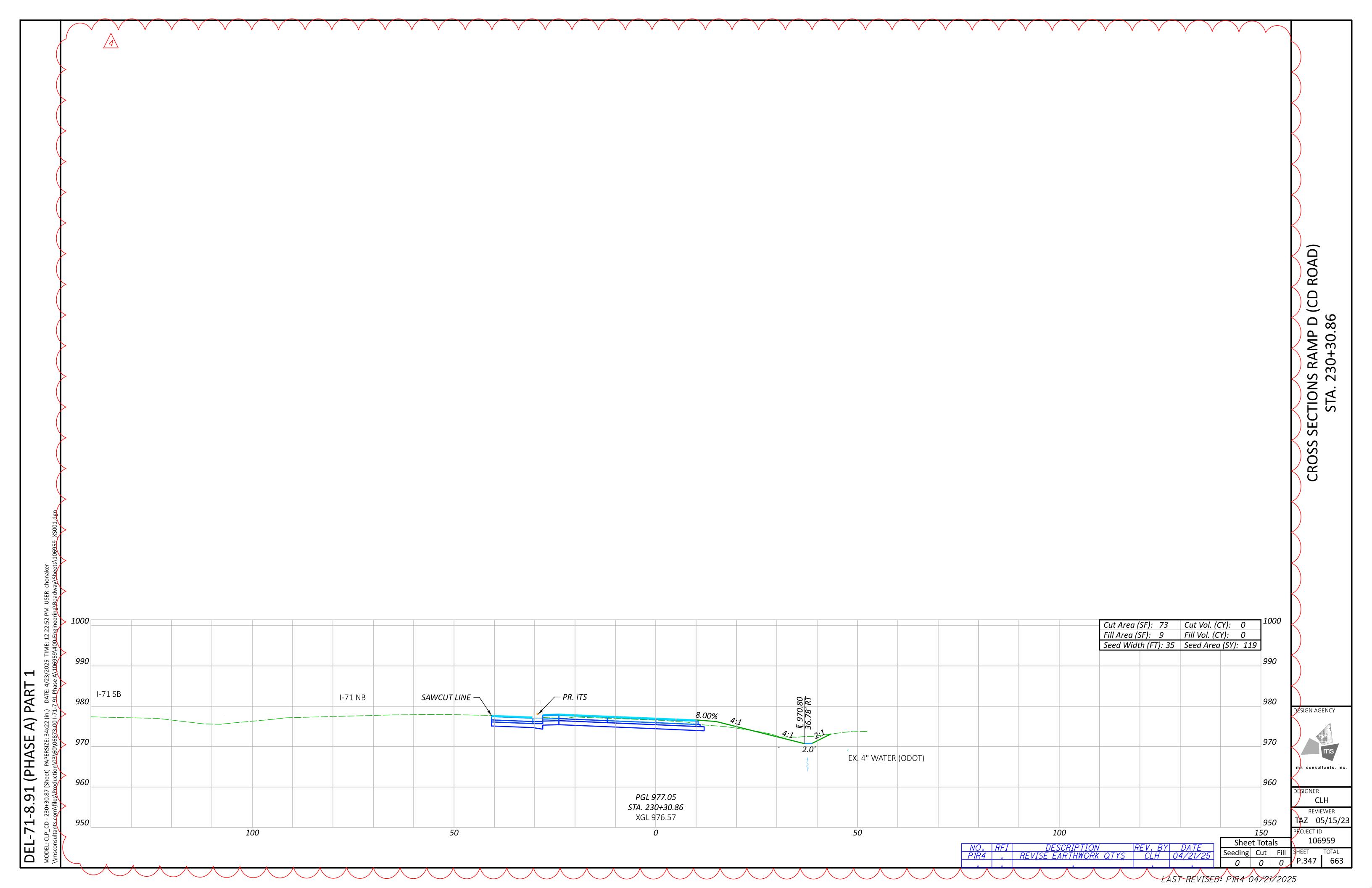


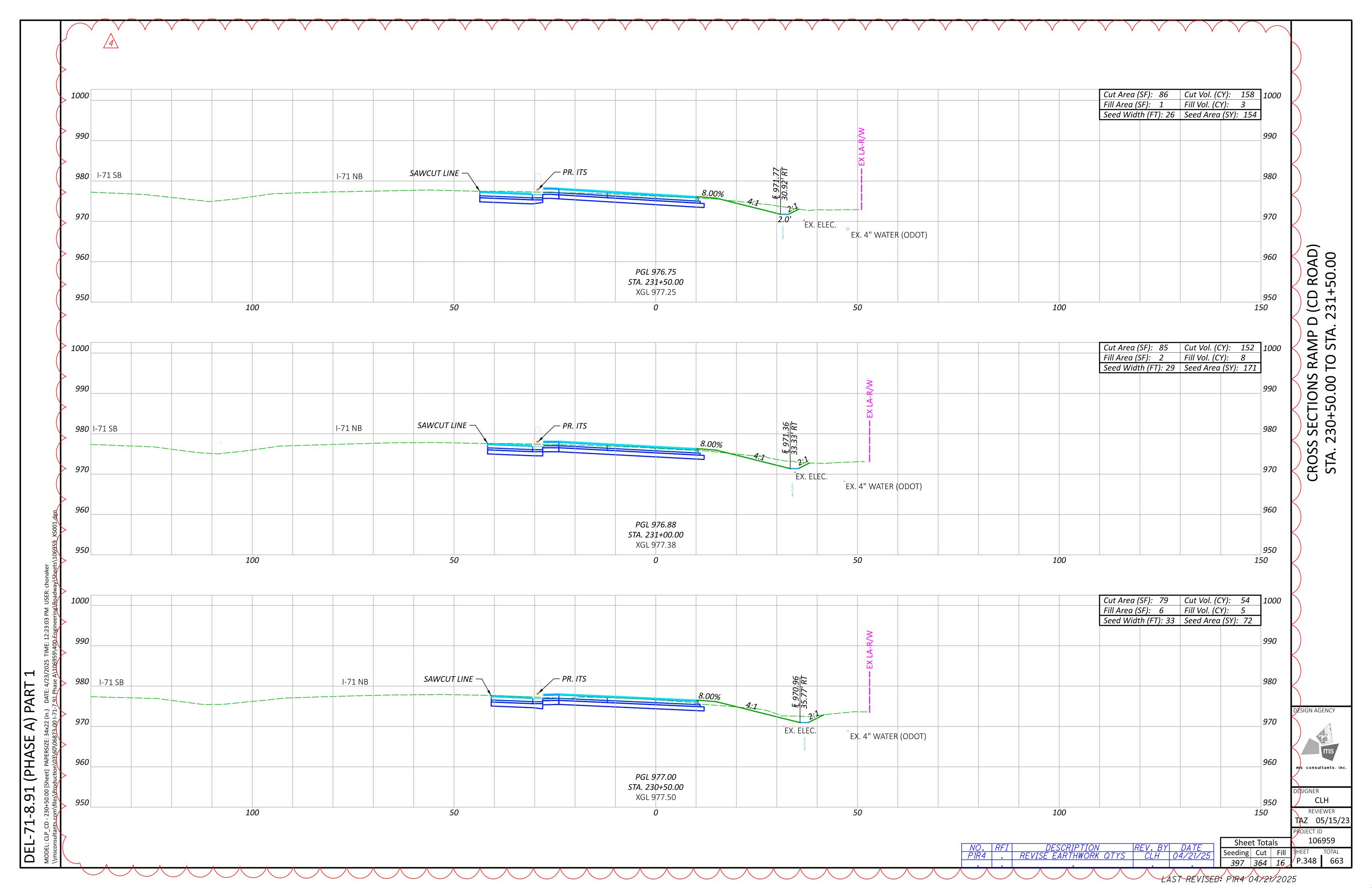


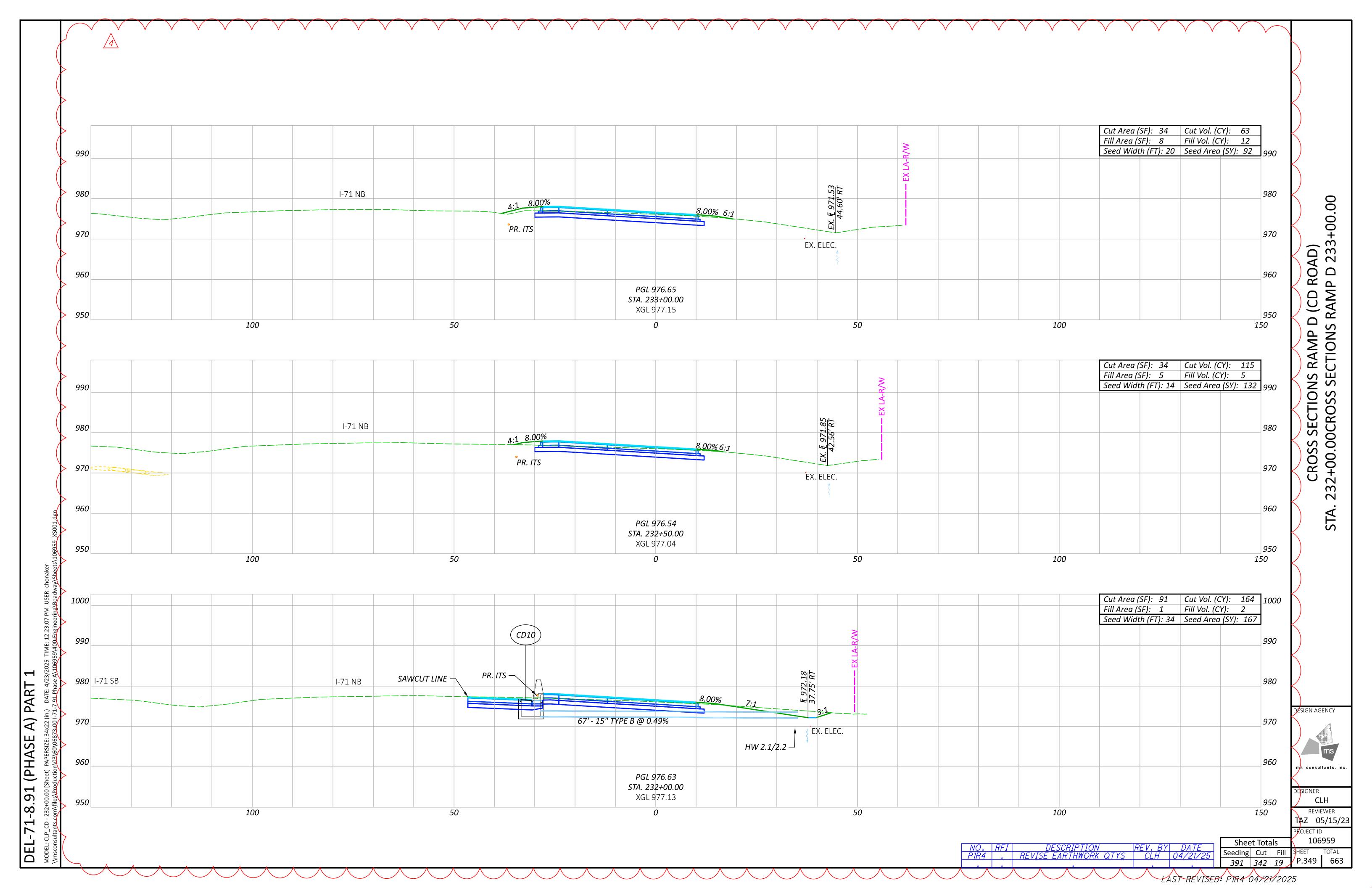


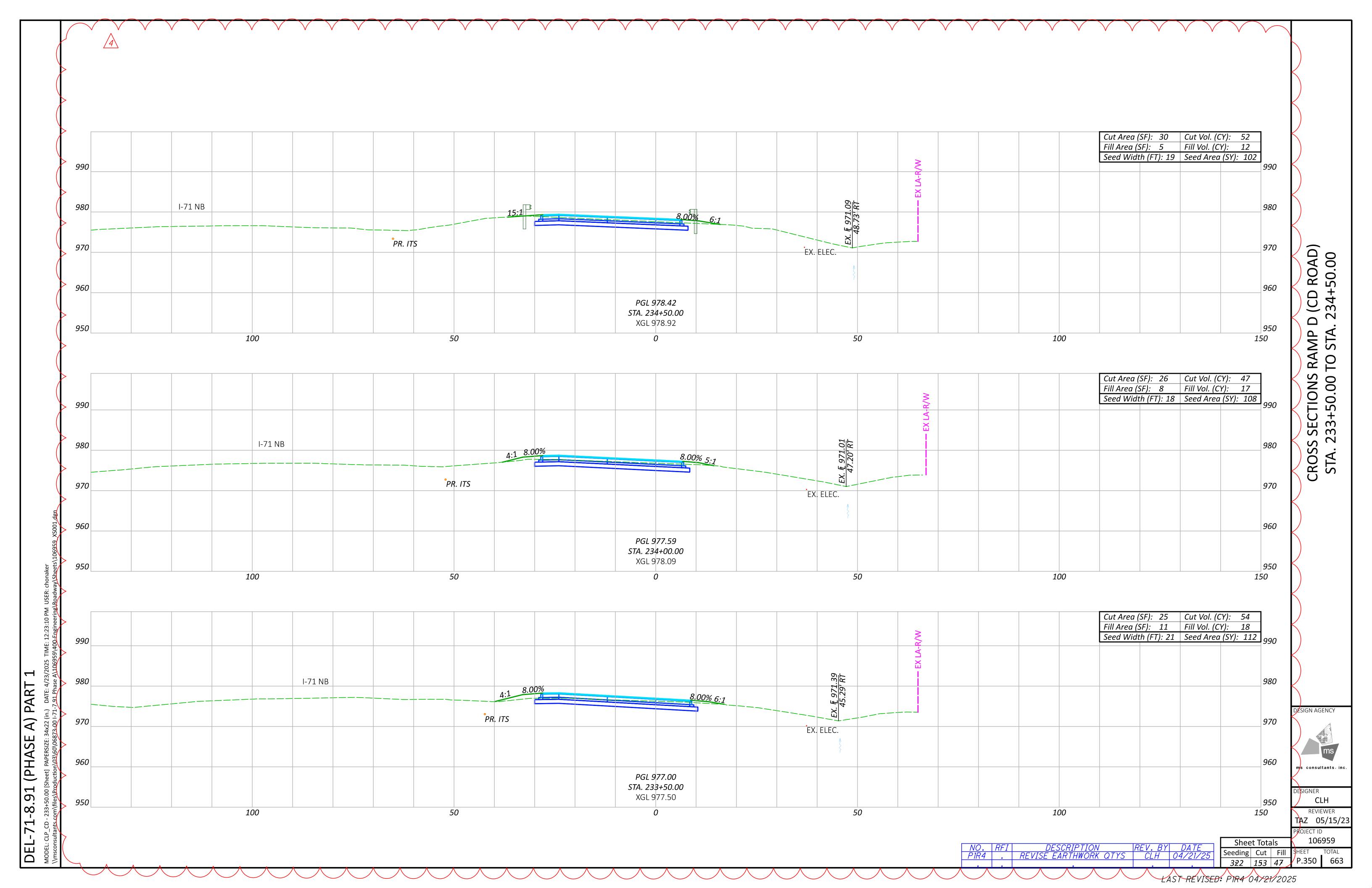


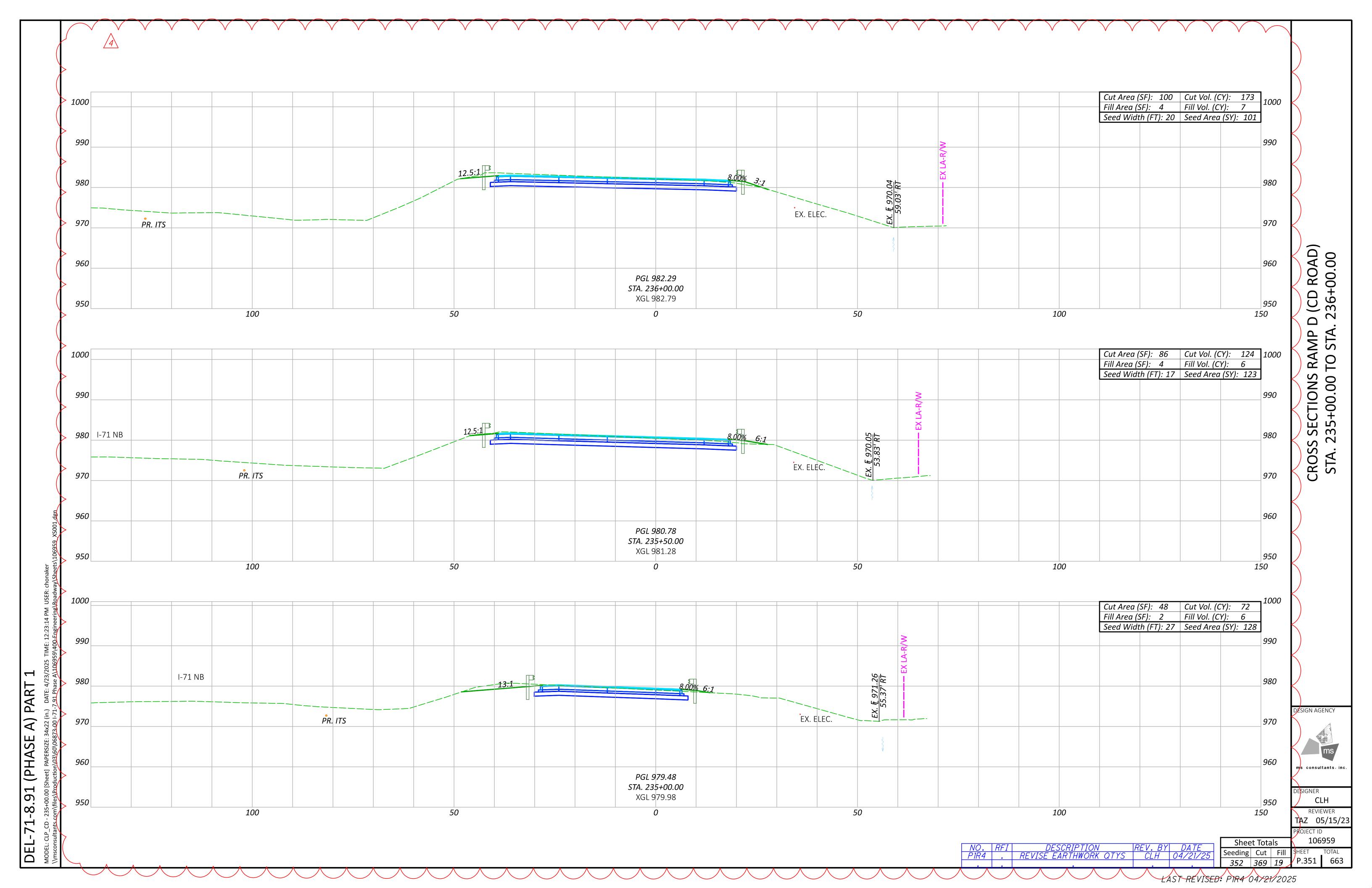


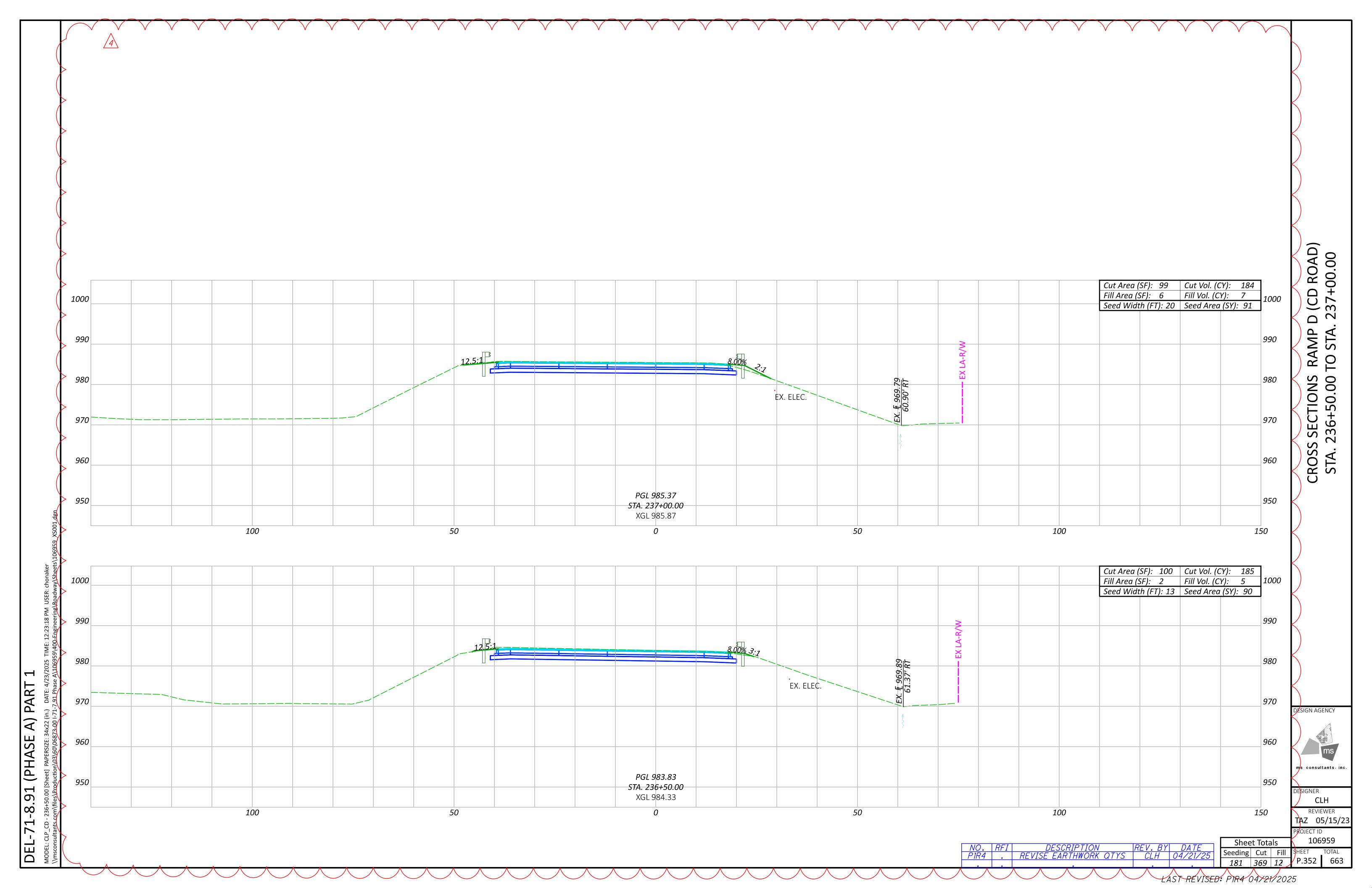


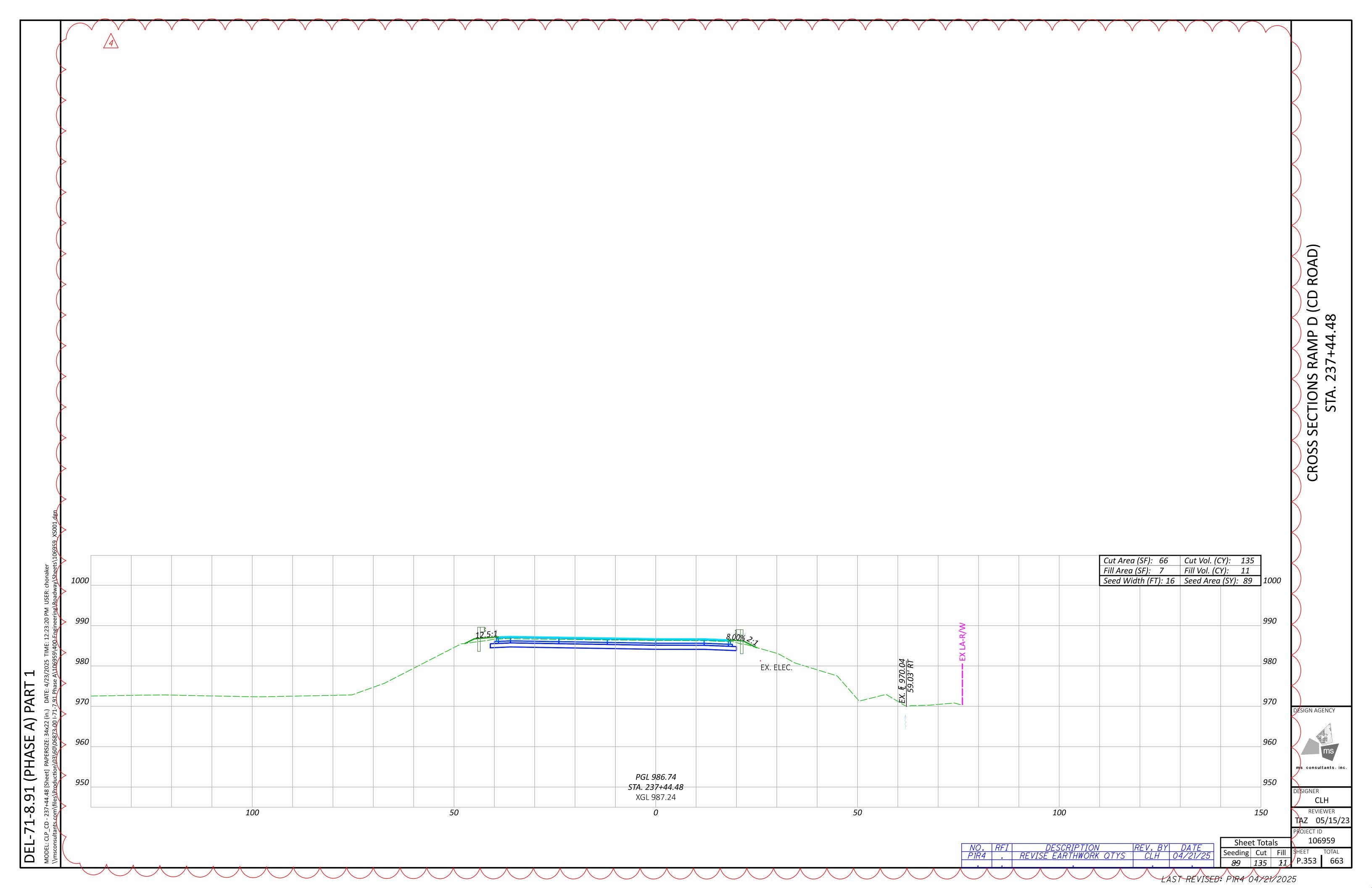












TRAVEL LANE

PAVED SHOULDER

MINIMUM 2-FT OFFSET

AMENDED VEGETATED FILTER STRIP (AVFS)

THE AMENDED VEGETATED FILTER STRIP (AVFS) CONSISTS OF THE GRASSED PORTION OF THE GRADED SHOULDER AND GRASSED FORESLOPE, WHERE THE UNDERLYING SOILS HAVE BEEN AMENDED WITH COMPOST AND SAND. THE AVFS SHOULS BE IMPLEMENTED IN A STRIP, PARALLEL WITH THE ROADWAY, SO THAT IT CAN RECEIVE SHEET FLOW DIRECTLY FROM THE ROADWAY.

MATERIAL SPECIFICATIONS

SAND

ROAD CENTER LINE

EDGE OF PAVEMENT

1. MEET ODOT CMS 703.02 - FINE AGGREGATE

SOIL AMENDMENT COMPOST

1. SOIL AMENDMENT COMPOST SHALL ORIGINATE FROM AN OHIO EPA CLASS IV COMPOSTING FACILITY.

2. 100% OF MATERIAL MUST PASS THE 1/2-INCH SCREEN, WITH 75% PASSING THE 1/4-INCH SCREEN.

3. 5.5 < PH < 8.5

4. INERT MATERIAL < 1%

5. 35% < ORGANIC CONTENT < 65% (DRY WEIGHT BASIS DETERMINED BY LOSS OF IGNITION)

6. 20% < C:N RATION < 25%

7. MATURITY > 80% (SOLVITA INDEX VALUE BETWEEN 7 AND 8).
PARENT MATERIAL IS NO LONGER VISIBLE. COMPOST SHOULD BE
STABLE WITH REGARD TO OXYGEN CONSUMPTION AND CARBON
DIOXIDE GENERATION.

8. < 1,000 MPN/GTS FECAL COLIFORM AND < 3 MPN/GTS SALMONELLA SPP.

9. 30% < MOISTURE CONTENT < 60% WET BASIS

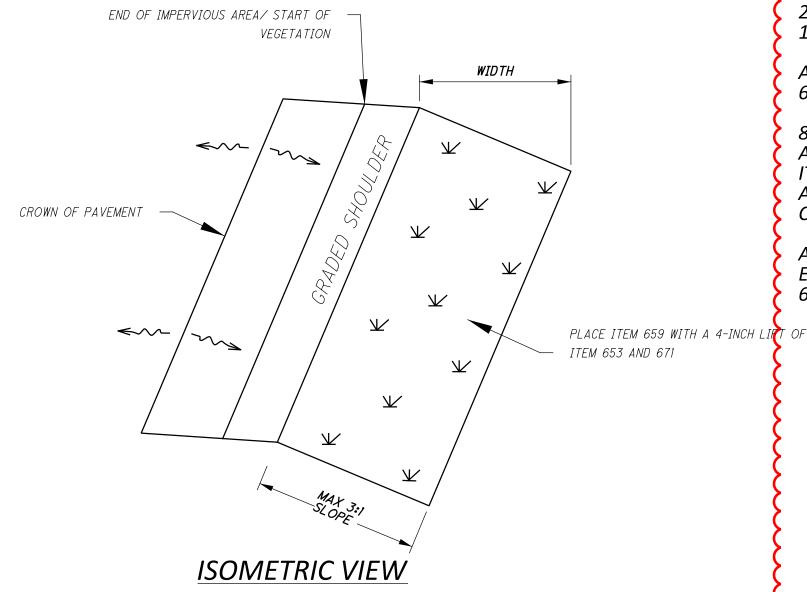
10. SOIL AMENDMENT COMPOST SAMPLES SHOULD BE TAKEN FROM THE MATERIAL STOCKPILED BY THE SUPPLIER WITHIN 15 CALENDAR DAYS PRIOR TO INITIAL APPLICATION. SUBMIT LABORATORY RESULTS TO THE ENGINEER FOR APPROVAL. SOIL AMENDMENT COMPOST THAT DOES NOT MEET THE SPECIFICATION SHALL NOT BE USED.

SEED

1. MEET ODOT CMS 659.09 - CLASS 1 - LAWN MIXTURE

EROSION CONTROL MAT

1. MEET ODOT CMS 712 -TYPE A - TEMPORARY EROSION CONTROL MAT



AMENDED VEGETATED FILTER STRIP (AVFS)

1. SOIL RIPPING: USE A SOLID-SHANK RIPPER WITH TEETH, TRAVERSING THE AREA WITH 2 PASSES IN EACH DIRECTION TO A DEPTH OF 12 INCHES. EACH PASS IS CONSIDERED THE WIDTH OF THE RIPPER, WITH TEETH SPACED NO MORE THAN 12 INCHES APART. THIS MAY BE ACCOMPLISHED WITH IMPLEMENTS MOUNTED TO A TRACTOR OR DOZER OR USE OF A GRADER WITH APPROPRIATE IMPLEMENTS (SCARIFIER TEETH), BUT MUST MEET THE 12-INCH DEPTH. IF TEETH ARE SPACED GREATER THAN 12 INCHES, ADDITIONAL PASSES ARE REQUIRED TO MEET A FURROW SPACING OF 6 INCHES. ONLY PERFORM RIPPING DURING DRY CONDITIONS WHEN SOILS ARE FRIABLE.

2. EXCAVATION: REMOVE EXCESS SOIL, SO THAT AFTER THE AMENDMENTS HAVE BEEN INCORPORATED INTO THE EXISTING SOIL, THE EXISTING GROUND SURFACE PROFILE WILL NOT APPRECIABLY CHANGE.

3. AMENDMENT PLACEMENT AND INCORPORATION: SPREAD AMENDMENTS OVER THE GROUND SURFACE IN A UNIFORM THICKNESS TO THE SPECIFIED AMENDMENT DEPTH. INCORPORATE AMENDMENTS WITH A ROTOTILLER OR SIMILAR EQUIPMENT INTO THE SOIL TO A DEPTH OF 6 INCHES. CONTINUE TILLING UNTIL ALL SOIL CLODS ARE REDUCED TO A MAXIMUM SIZE OF 1-INCH (25 MM) AND THE MIXTURE IS UNIFORM. INCORPORATION SHOULD ONLY BE PERFORMED DURING DRY CONDITIONS WHEN SOILS ARE FRIABLE. SIX PASSES (PASS IS THE WIDTH OF THE MACHINE) WITH A ROTOTILLER OR SIMILAR IS ANTICIPATED TO MEET THE UNIFORMITY REQUIREMENT.

SOIL AMENDMENT COMPOST SHALL BE PAID FOR UNDER ITEM 659, TOPSOIL, AS PER PLAN - SOIL AMENDMENT COMPOST.

4. FINE GRADING AND LIMITED COMPACTION: PERFORM FINE GRADING TO ACHIEVE THE SLOPE GEOMETRY AND ELEVATIONS SPECIFIED IN THE PLANS. TO ACHIEVE AN APPROXIMATE COMPACTION OF 85 TO 90% MAXIMUM DENSITY, ONE PASS WITH A RUBBER-TIRED OR SMOOTH DRUM ROLLER IS ANTICIPATED.

5. COMPOST BLANKET: EVENLY SPREAD A 0.5-INCH THICK LAYER OF SOIL AMENDMENT COMPOST OVER THE GROUND SURFACE.

ALL WORK ASSOCIATED WITH ITEMS 1, 2, 3, AND 4 SHALL BE PAID FOR UNDER ITEM 654, RENOVATING EXISTING SOIL AS PER PLAN.

ALL WORK ASSOCIATED WITH ITEM 5 SHALL BE PAID FOR UNDER ITEM 659, TOPSOIL AS PER PLAN.

6. SEEDING AND WATERING: ODOT CLASS I LAWN MIXTURE (ODOT ITEM 659.09) INSTALLED PER ITEM 659. RAKE SEED INTO SOIL AMENDMENT COMPOST. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A MINIMUM OF 70% PERMANENT VEGETATION COVERAGE WITHIN THE PROJECT SCHEDULE. WATERING MAY BE NECESSARY.

7. FERTILIZER: APPLY THE FOLLOWING FERTILIZER AND RATES. FOLLOW ODOT ITEM 659.04 SPECIFICATION FOR APPLICATION OF FERTILIZER.
1.0 LB./1,000 SQFT POTASSIUM

2.5 LB./1,000 SQFT POTASH 1.0 LB./1,000 SQFT MAGNESIUM

ALL WORK FOR ITEMS 6-7 SHALL BE PAID FOR UNDER ITEM 659, SEEDING AND MULCHING, CLASS 1.

8. EROSION CONTROL MATTING: ODOT CMS ITEM 712 TYPE A TEMPORARY EROSION CONTROL MAT. INSTALL PER ODOT ITEM 671. DO NOT RUN MACHINERY/EQUIPMENT OVER THE AMENDED SOILS DURING INSTALLATION OF THE EROSION CONTROL MAT.

ALL WORK ASSOCIATED WITH SUPPLYING AND INSTALLING EROSION CONTROL MAT SHALL BE PAID FOR UNDER ITEM 671, EROSION CONTROL MAT, TYPE A.

POST CONSTRUCTION STORMWATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED FILTER STRIP (VFS)

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

DESIGN AGENCY



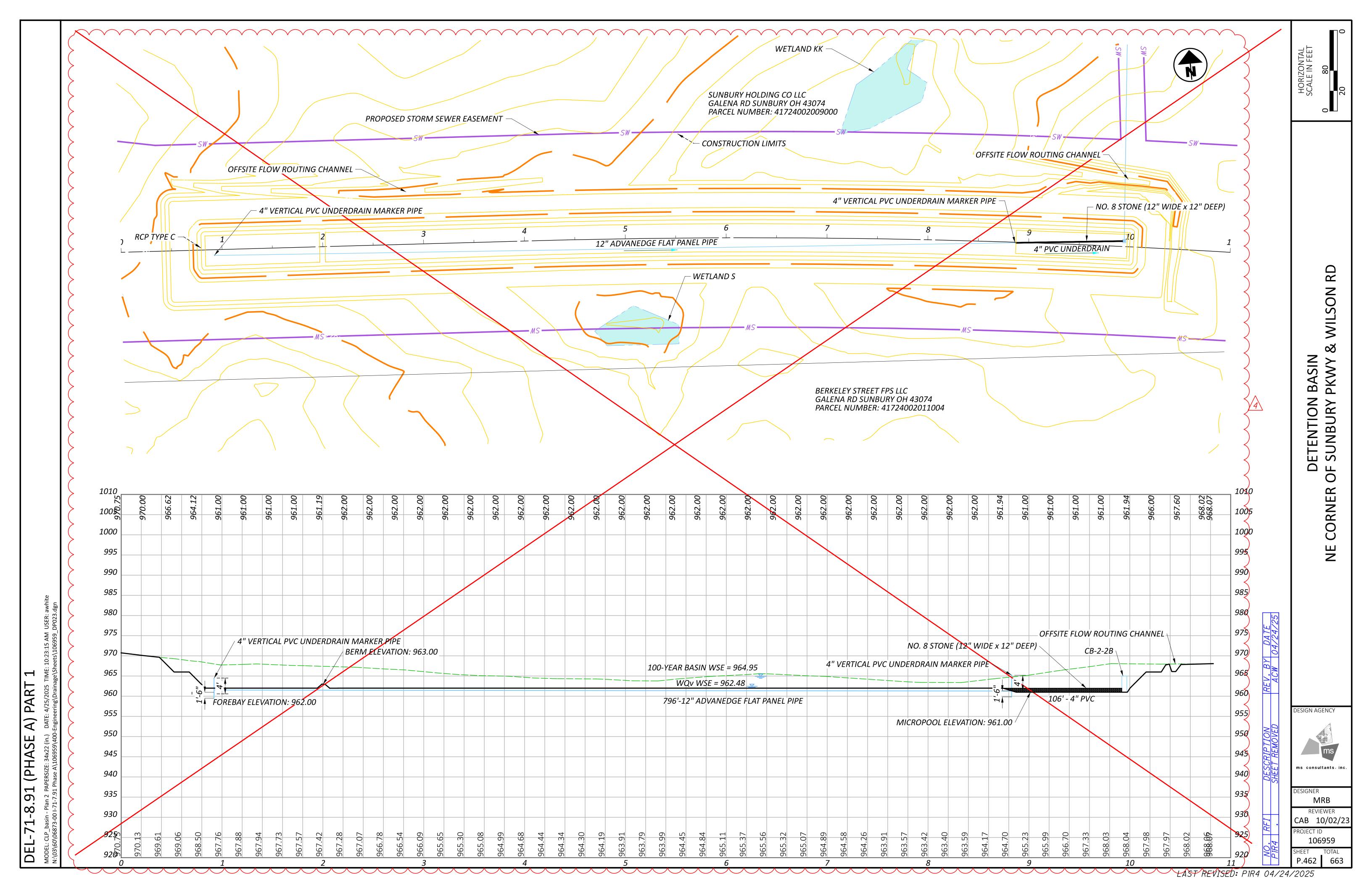
DESIGNER

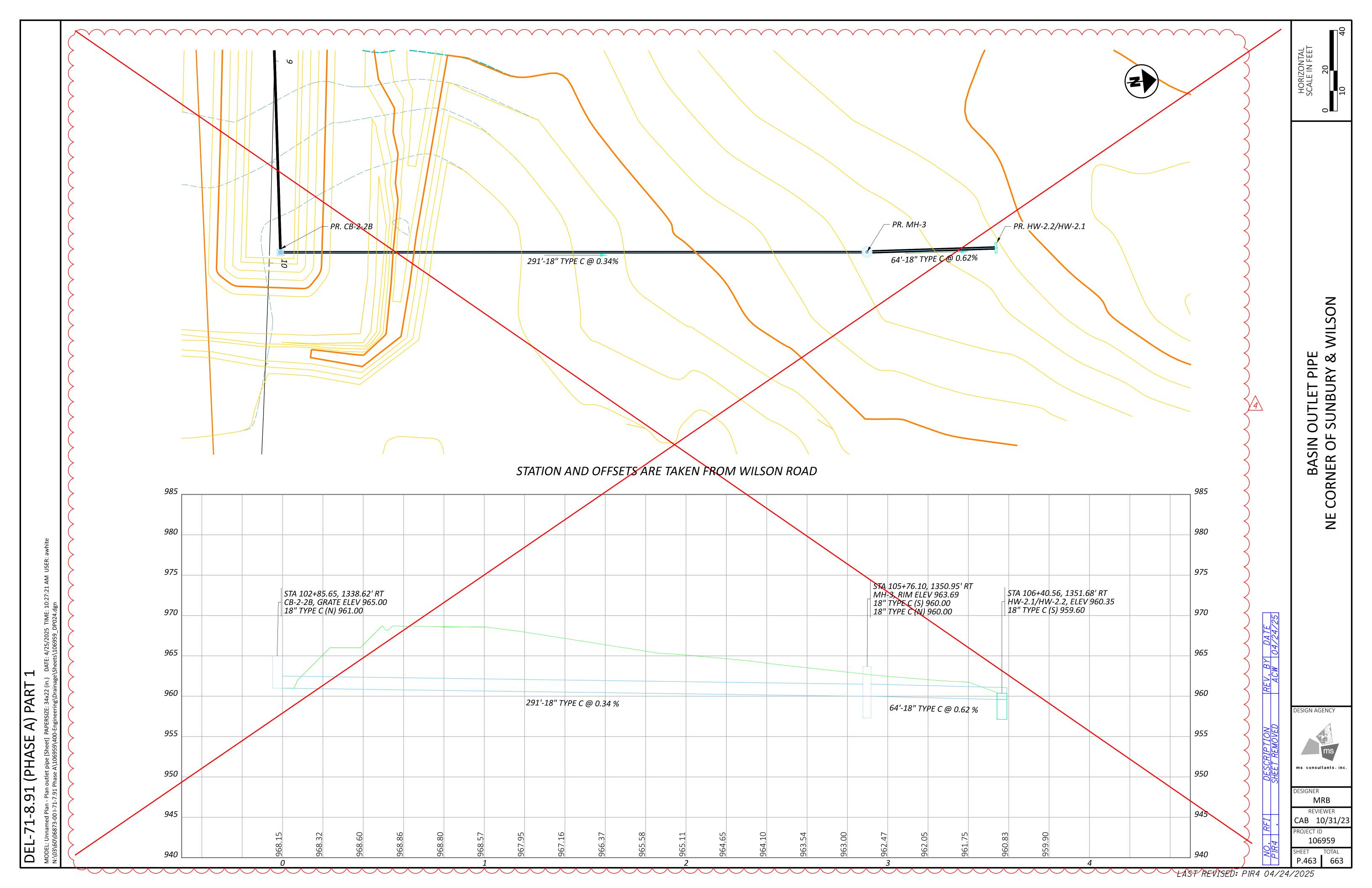
MNB

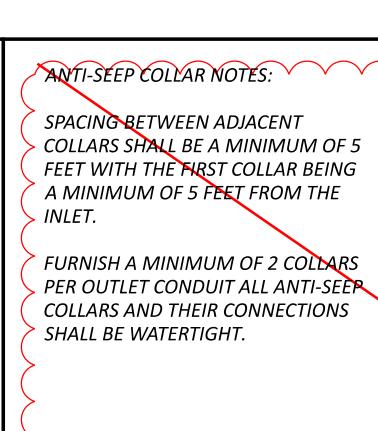
REVIEWER

MRB 06/29/23

106959
SHEET TOTAL
P.439 663







UNDISTURBED SOIL (TYP) CLASS C CONCRETE HAND-TAMPED COMPACTED CLAY COMPACTED PER ITEM VIEW A-A 12" MINIMUM

TOP OF UNDERDRAIN MARKER PIPES SHALL BE SET AT 2'06" ABOVE BOTTOM OF POOL. **BOTTOM OF POOL** UNDERDRAIN

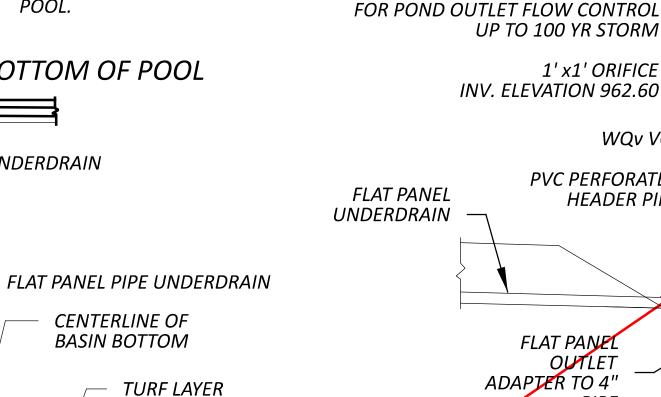
CENTERLINE OF

BASIN BOTTOM

PROVIDE FILTER FABRIC ON BOTTOM

AND SIDES OF

TRENCH



TOP OF CASTING ELEV. 965.00 -

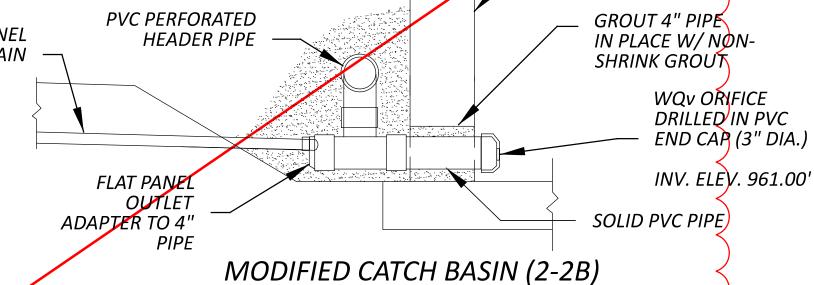
UP TO 100 YR STORM

INV. ELEVATION 962.60

1' x1' ORIFICE

WQv VOLUME

WINDOW OR ORIFICE IN CATCH BASIN



FOR UNDERDRAIN

EMERGENCY

OVERFLOW BRATE

(MIN. 0.1 ABOVE

100 YR WATER

SURFACE ELEV.)

CATCH BASIN WALL

ANTI-SEEP COLLAR DETAIL

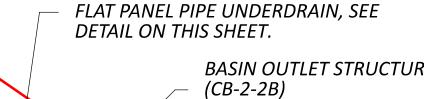
UNDERDRAIN NOTES:

THE UNDERDRAIN SHALL BE 12" ADVANEDGE FLAT PANEL PIPE OR APPROVED EQUAL WITH (FILTER FABRIC WRAP. THE FABRIC WRAP SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. THE PANEL PIPE SHALL SLOPE POSITIVELY TOWARDS THE BASIN OUTLET STRUCTURE AND SHALL ENTER THE BASIN OUTLET STRUCTURE AT OR ABOVE THE THE STRUCTURE'S OUTLET PIPE'S INVERT ELEVATION.

THE CONTRACTOR SHALL INSTALL THE FLAT PANEL UNDERDRAINS AFTER COVER HAS BEEN ESTABLISHED.

UNDERDRAIN SHALL BE MARKED WITH A CAPPED 4" VERTICAL PVC PIPE STUBBED 2'-6" (ABOVE THE BOTTOM OF THE FORBAY AND THE MICROPOOL AS SHOWN ON THIS SHEET.

(THE REQUIRED UNDERDRAIN TRENCH IS 6" DEEP BY 24" WIDE. UNDERDRAIN BACKFILL SHALL BE NO. 8 STONE PER ODOT CMS 605.02. THE NO. 8 STONE SHALL BE PAID FOR UNDER ITEM 690 - SPECIAL - UNDERDRAIN TRENCH BACKFILL.



BASIN OUTLET STRUCTURE

#8 AGGREGATE FLAT PANEL PIPE UNDERDRAIN DETAIL

6" THICK LAYER OF

UNDERDRAIN DETAIL

FOREBAY AND MICROPOOL SHALL BE SIZED PER CURRENT OEPA GUIDELINES. DIRECT SITE FLOW TO THE FOREBAY TREES, ROOTS, AND BRUSH SHALL BE REMOVED FROM THE DRAINAGE EASEMENT, DETENTION BASIN AND BASIN EMBANKMENT.

POND BOTTOM CROSS SLOPE SHALL BE A MINIMUM OF 2%.

PROVIDE ROCK CHANNEL PROTECTION OR CONCRETE PAVED CHANNEL AT THE POND OUTLET PIPE.

EMERGENCY SPILLWAY SHALL ONLY BE UTILIZED FOR DISCHARGE ABOVE THE 100 YR STORM.

SEE ARTICLE IX OF THE DELAWARE COUNTY DESIGN, CONSTRUCTION, AND SURVEYING STANDARDS FOR OTHER BASIN DESIGN REQUIREMENTS. SEE ARTICLE IX, SECTION 902 FOR REQUIRED DRAINAGE EASEMENTS. EASEMENTS SHALL BE PROVIDED TO ALL MAINTENANCE AND ACCESS BERMS AND

DRIVES AS WELL AS ALONG ALL FLOOD ROUTES. ACCESS DRIVES SHALL HAVE A MAXIMUM DRIVE PROFILE SLOPE OF 6:1.

| | 203 | 203 | 602 | 602 | 605 | 605 | 611 | 611 | 611 | 611 | 611 | 611 | 659 | 670 | SPECIAL |
|-----------------------------------|------------|------------|------------------|---------------------------------------|--|--|----------------|-----------------------|---------------------|---|---|--|----------------------------------|-----------------------------|--|
| QUANTITY SHEET NO. | EMBANKMENT | EXCAVATION | CONCRETE MASONRY | CONCRETE MASONRY,
ANTI-SEEP COLLAR | UNDERDRAINS, MISC.:
12" ADVANEDGE W/
FILTER FABRIC, TYPE A
PER 712.09 | 4" SHALLOW PIPE
UNDERDRAINS WITH
GEOTEXTILE FABRIC | MANHOLE, NO. 3 | CATCH BASIN, NO. 2-2B | 18" CONDUIT, TYPE C | WATER QUALITY BASIN, DETENTION, AS PER PLAN UNDERDRAIN PIPE MARKER - 4" | WATER QUALITY BASIN,
DETENTION, AS PER
PLAN4" PVC ELBOW | WATER QUALITY BASIN,
DETENTION, AS PER
PLANFLAT PANEL
ADAPTER | SEEDING AND
MULCHING, CLASS 1 | SLOPE EROSION
PROTECTION | STONE - UNDERDRAIN
TRENCH BACKFILL (NO. 8
STONE) |
| | CY | CY | CY | CY | FT | FT | EACH | EACH | FT | EACH | EACH | EACH | SY | SY | CY |
| P.462 | 1736 | 8130 | | | 796 | 106 | | | | 2 | | | 18920 | 7100 | 38 |
| P.463 | | | 0.31 | 1 | | | 1 | 1 | 356 | | 1 | 1 | | | |
| TOTALS CARRIED TO GENERAL SUMMARY | 1736 | 8130 | 0.31 | 1 | 796 | 106 | 1 | 1 | 356 | 2 | 1 | 1 | 18920 | 7100 | 38 |

DESIGN AGENCY ms consultants, in ESIGNER CAB 11/01/23 106959 P.464 663

LAST REVISED: PIR4 04/24/2025

| | | | | | | | 646 | 646 | 64 | 346 | 646 | 646 | 646 | 646 | 807 | 807 | 807 | 807 | 807 | 807 | 807 | 807 | 850 | 850 | 850 | 850 | 850 |
|-----------|--|------------------------------------|------------------|------------|---------|------------|---------------------|--------------------|------|-----------|-------------------|----------------|------------|---------------|---------------------------------------|--|---|---|--|---|--|--|--|--|---|---|---|
| SHEET NO. | LOCATION | REFERENCE NO. | | STATION TO | STATION | | ie line, 6", Yellow | GE LINE, 6", WHITE | F | STOP LINE | OSSWALK LINE, 24" | IEVRON MARKING | LANE ARROW | ONG WAY ARROW | ECTIVE EPOXY PAVEMENT | ECTIVE EPOXY PAVEMENT
G, EDGE LINE, 6", WHITE | ECTIVE EPOXY PAVEMENT
, CHANNELIZING LINE, 12" | ECTIVE THERMOPLASTIC MARKING, EDGE LINE, 6", YELLOW | WET REFLECTIVE THERMOPLASTIC
AVEMENT MARKING, EDGE LINE, 6",
WHITE | WET REFLECTIVE THERMOPLASTIC
PAVEMENT MARKING, LANE LINE, 6" | WET REFLECTIVE THERMOPLASTIC
AVEMENT MARKING, CHANNELIZING
LINE, 12" | WET REFLECTIVE THERMOPLASTIC
AVEMENT MARKING, DOTTED LINE, 6' | GROOVING FOR 6" RECESSED
AVEMENT MARKING, (ASPHALT) | GROOVING FOR 12" RECESSED
PAVEMENT MARKING, (ASPHALT) | GROOVING FOR 6" RECESSED
PAVEMENT MARKING, (ASPHALT) | GROOVING FOR 6" RECESSED
AVEMENT MARKING, (CONCRETE) | ING FOR 12" RECESSED
T MARKING, (CONCRETE) |
| | | | | | | | EDG | EDC | | | CRC | <u>ਤ</u> | | W | T REFLI | VET REFLI
MARKING | REFL | WET REFL | ET REFL | ET REFL
/EMENT | ET REFL | ET REFL | GROOV | GROOV | GROOV | GROOV | GROOVIN |
| | | | | | | | FT /2 AU | 5 5T/0.41 | | | | | FACIL | FACIL | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | > | WET | <u> </u> | <u>a</u> | | 9 | Δ | 4 | _ | | <u> </u> | PA |
| 170 | . 74 | | 627.45 | DT TO | 622.00 | 27 | FT/MII | E FT/MI | LE F | FT | FT | FT | EACH | EACH | FT/MILE _ | FT/MILE A | FT | FT/MILE کر | FT/MILE | FT/MILE | FT | FT | FT/MILE | FT | FT | FT/MILE | FI |
| P.478 | I-71 | LL-1, LL-2 | 637+15 | RT TO | | RT | | | | | | | | | | | | | | 370 | | | 370 | | | | |
| P.479 | I-71 | LL-3, LL-4
YE-1, WE-1 | 639+00
640+15 | RT TO | | RT
RT | | | | | | | | | | | | 985 | 985 | 2200 | | | 2200
1970 | | | | |
| | | YE-2, LL-5, LL- | 650+00 | RT TO | 660+00 | RT | | | | | | | | | | | | 1000 | | 2000 | | | 3000 | | | | |
| 2.480 | I-71 | WE-2 | 650+00 | RT TO | | | | | | | | | | | | | | | 360 | | | | 360 | | | | |
| | CD ROAD | WD3-1
WE-3 | 652+60
153+60 | RT TO | | | | | | | | | | | | | | | 640 | | | 740 | 640 | | 740 | | |
| | | | 133+00 | KI IO | 100+00 | NI | | | | | | | | | | | | | 040 | | | | 040 | | | | |
| | | YE-3, LL-7, LL-
8 | 660+00 | RT TO | | | | | | | | | | | | | | 1000 | 112 | 2000 | | | 3000 | | | | |
| | I-71 | WD3-2
LL-9, LL-10 | 660+00
667+30 | RT TO | | | | | | | | | | | | | | | 110 | 540 | | | 110
540 | | | | |
| P.481 | | CH-2, CV-1 | 667+35 | RT TO | 670+00 | RT | | | | | | 49 | | | | | | | | | 265 | | | 265 | | | |
| | CD ROAD | WE-4
CH-1 | 160+00
161+60 | LT TO | | | | | | | | | | | | | | | 1000 | | 840 | | 1000 | 840 | | | |
| | —————————————————————————————————————— | CH-3 | 167+34 | LT TO | | | | | | | | | | | | | | | | | 266 | | | 266 | | | |
| | | YE-4,
LL-11, | 670+00 | RT TO | 680+00 | RT | | | | | | | | | | | | 1000 | | 2000 | | | 3000 | | | | |
| | | LL-12 | 070+00 | KI IO | 080+00 | IVI | | | | | | | | | | | | 1000 | | 2000 | | | 3000 | | | | |
| | I 7 4 | CV-2, CH-4 | 670+00 | RT TO | | | | | | | | 162 | | | | | | | F02 | | 407 | | F02 | 407 | | | |
| | I-71 | WE-5
LL-14, | 674+07 | RT TO | | | | | | | | | | | | | | | 593 | 2000 | | | 593 | | | | |
| 2.482 | | LL-15 | 670+00 | | | | | | | | | | | | | | | | | 2000 | | | 2000 | | | | |
| | | WE-7, YE-6
WD3-4 | 670+30
674+60 | LT TO | | | | | | | | | | | | | | | | 1940 | | 540 | 1940 | | 540 | | |
| | | WE-6 | 170+00 | ТО | 179+14 | | | | | | | | | | | | | | 914 | | | | 914 | | | | |
| | CD ROAD | CH-5, CH-6
YE-5, LL-13 | 170+00
174+05 | LT TO | | LT
IT | | | | | | | | | | | | 590 | | 590 | 810 | | 1180 | 810 | | | |
| | | WD3-3 | 179+14 | RT TO | _ | RT | | | | | | | | | | | | 330 | | 330 | | 81 | 1100 | | 81 | | |
| | | YE-7,
LL-16,
LL-17,
WE-8 | 680+00 | RT TO | 690+00 | RT | | | | | | | | | | | | 1000 | 1000 | 2000 | | | 4000 | | | | |
| P.483 | I-71 | YE-9,
LL-20,
LL-21,
WE-11 | 680+00 | LT TO | 690+00 | LT | | | | | | | | | | | | 1000 | 1000 | 2000 | | | 4000 | | | | |
| | | WD3-6 | 680+00 | RT TO | | | | | | | | | | | | | | | | | 200 | 850 | | 200 | 850 | | |
| | | CH-8, CH-9
YE-8, | 688+50 | RT TO | | | | | | | | | | | | | | 000 | | 000 | 300 | | 1000 | 300 | | | |
| | O D 5.5. | LL-19 | 179+95 | LT TO | | LI | | | | | | | | | | | | 996 | | 996 | | | 1992 | | | | |
| | CD ROAD | WD3-5
CH-6 | 179+95
184+22 | TO TO | | | | | | | | | | | | | | | | | 293 | 427 | | 293 | 427 | | |
| | | WE-9 | 187+15 | ТО | | | | | | | | | | | | | | | 276 | | | | 276 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TOTAL TOTALS CARR | S THIS SHEET | Τ | | | | | | | | | | | | | | 7571 | 6878 | 18636 | | | 33085 | | | | |

| | | | | 646 | 646 | 646 | 646 | 646 | 646 | 646 | 807 | 807 | 807 | 807 | 807 | 807 | 807 | 807 | 850 | 850 | 850 | 850 | 850 | |
|-----------|----------|-------------------------------------|------------------------|-----------------------|----------------------|-----------|---------------------|-----------------|------------|-----------------|--|--|--|--|---|---|--|---|--|---|--|---|---|------------------|
| SHEET NO. | LOCATION | REFERENCE NO. | STATION TO STATION | EDGE LINE, 6", YELLOW | EDGE LINE, 6", WHITE | STOP LINE | CROSSWALK LINE, 24" | CHEVRON MARKING | LANE ARROW | WRONG WAY ARROW | TREFLECTIVE EPOXY PAVEMENT ARKING, EDGE LINE, 6", YELLOW | WET REFLECTIVE EPOXY PAVEMENT
MARKING, EDGE LINE, 6", WHITE | WET REFLECTIVE EPOXY PAVEMENT
MARKING, CHANNELIZING LINE, 12" | ET REFLECTIVE THERMOPLASTIC EMENT MARKING, EDGE LINE, 6", YELLOW | WET REFLECTIVE THERMOPLASTIC
PAVEMENT MARKING, EDGE LINE, 6",
WHITE | WET REFLECTIVE THERMOPLASTIC
PAVEMENT MARKING, LANE LINE, 6" | WET REFLECTIVE THERMOPLASTIC
AVEMENT MARKING, CHANNELIZING
LINE, 12" | WET REFLECTIVE THERMOPLASTIC
VEMENT MARKING, DOTTED LINE, 6" | GROOVING FOR 6" RECESSED
AVEMENT MARKING, (ASPHALT) | GROOVING FOR 12" RECESSED
AVEMENT MARKING, (ASPHALT) | GROOVING FOR 6" RECESSED
AVEMENT MARKING, (ASPHALT) | GROOVING FOR 6" RECESSED
AVEMENT MARKING, (CONCRETE) | GROOVING FOR 12" RECESSED
PAVEMENT MARKING, (CONCRETE) | |
| | | | | | | | | | | | WE WE | _ | | WET | <u> </u> | | 4 | ₽ | 6 | Δ. | ۵ | <u> </u> | | _ |
| | | | | FT/MILE | FT/MILE | FT | FT | FT | EACH | EACH | FT/MILE_ | FT/MILE | FT | FT/MILE | FT/MILE | FT/MILE | FT | FT | FT/MILE | FT | FT | FT/MILE | FT | PS |
| | | YE-10,
LL-22,
LL-23,
WE-10 | 690+00 RT TO 700+00 RT | | | | | | | | | | | 1000 | 1000 | 2000 | | | 4000 | | | | | 8 RAN |
| | I-71 | WE-12,
CH-7 | 690+00 LT TO 692+00 LT | | | | | | | | | | | | 200 | | 200 | | 200 | 200 | | | | |
| P.484 | | CH-8 | 690+00 LT TO 694+50 LT | | | | | | | | | | | | | | 450 | | | 450 | | | | |
| | | LL-25,
LL-26,
YE-12 | 690+00 LT TO 700+00 LT | | | | | | | | | | | 1000 | | 2000 | | | 3000 | | | | | |
| | | WE-13 | 694+50 LT TO 700+00 LT | | | | | | | | | | | | 550 | | | | 550 | | | | | |
| | CD ROAD | YE-11,
LL-24 | 189+91 LT TO 199+90 LT | | | | | | | | | | | 999 | | 999 | | | 1998 | | | | | |
| _ | | WE-11 | 189+91 TO 199+90 | | | | | | | | | | | | | | | | | | | | | |
| | 1 71 | YE-13,
LL-27,
LL-28,
WE-15 | 700+00 RT TO 710+00 RT | | | | | | | | | | | 1000 | 1000 | 2000 | | | 4000 | | | | | |
| P.485 | I-71 | YE-15,
LL-30,
LL-31,
WE-17 | 700+00 LT TO 710+00 LT | | | | | | | | | | | 1000 | 1000 | 2000 | | | 4000 | | | | | |
| | CD ROAD | YE-14,
LL-29 | 199+90 LT TO 209+90 LT | | | | | | | | | | | 1000 | | 1000 | | | 2000 | | | | | 7E
3/25 |
| | | WE-16 | 199+90 TO 209+90 | | | | | | | | | | | | 1000 | | | | 1000 | | | | | DA 7 |
| | I-71 | WE-18 | 710+00 RT TO 720+00 RT | | | | | | | | | | | 1000 | | 1000 | | | 4000 | | | | | REV. BY YS KJF 0 |
| P.486 | | YE-18,
WE-20 | 710+00 LT TO 714+95 LT | | | | | | | | | | | 495 | 495 | | | | 990 | | | | | |
| | | LL-35,
LL-36 | 710+00 LT TO 718+95 LT | | | | | | | | | | | | | 1790 | | | 1790 | | | | | NOIL O |
| | CD ROAD | YE-17,
LL-34 | 209+90 LT TO 219+90 LT | | | | | | | | | | | 1000 | | 1000 | | | 2000 | | | | | SCRIF
EM T |
| | | WE-19 | 209+90 219+90 | | | | | | | | | | | | 1000 | | | | 1000 | | | | | DE.
SE IT |
| P.487 | I-71 | YE-19,
LL-37,
LL-38,
WE-21 | 720+00 RT TO 730+00 RT | | | | | | | | | | | 1000 | 1000 | 2000 | | | 4000 | | | | | RFI REVI |
| | CD ROAD | YE-20,
LL-39 | 219+90 LT TO 229+90 LT | | | | | | | | | | | 1000 | | 1000 | | | 2000 | | | | | NO.
PIR4 |
| | | WE-22 | 219+90 TO 229+90 | | | | | | | | | | | | 1000 | | | | 1000 | | | | | DESIGN A |
| | | | | | | | | | | | | | | | | | | | | | | | | ms con DESIGNE |
| | | | | | | | | | | | | | | | | | | | | | | | | KWR PROJECT |
| | | TOTA | ALS THIS SHEET | | | | | | | | | | | 10494 | 10245 | 16789 | | | 37528 | | | | | 10 |
| | | | RRIED TO SHEET P.473 | | | | | | | | | | | 1.99 | 1.94 | 3.18 | 650 | | 7.11 | 650 | I AST REVI | | | P.471 |

| | | | | 646 | 646 | 646 | 646 | 646 | 646 | 646 | 807 | 807 | 807 | 807 | 807 | 807 | 807 | 807 | 850 | 850 | 850 | 850 | 850 |
|------------|----------|-------------------------------------|---|---|----------------------|-----------|---------------------|-----------------|-------------|-----------------|--|--|--|---|---|---|--|--|---|--|---|--|---|
| REF
NO. | LOCATION | REFERENCE NO. | STATION TO STATION | EDGE LINE, 6", YELLOW | EDGE LINE, 6", WHITE | STOP LINE | CROSSWALK LINE, 24" | CHEVRON MARKING | LANE ARROW | WRONG WAY ARROW | WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6", YELLOW | WET REFLECTIVE EPOXY PAVEMENT
MARKING, EDGE LINE, 6", WHITE | WET REFLECTIVE EPOXY PAVEMENT
MARKING, CHANNELIZING LINE, 12" | WET REFLECTIVE THERMOPLASTIC
PAVEMENT MARKING, EDGE LINE, 6"
YELLOW | WET REFLECTIVE THERMOPLASTIC
PAVEMENT MARKING, EDGE LINE, 6",
WHITE | WET REFLECTIVE THERMOPLASTIC
PAVEMENT MARKING, LANE LINE, 6' | WET REFLECTIVE THERMOPLASTIC
PAVEMENT MARKING, CHANNELIZIN
LINE, 12" | WET REFLECTIVE THERMOPLASTIC
PAVEMENT MARKING, DOTTED LINE, (| GROOVING FOR 6" RECESSED
PAVEMENT MARKING, (ASPHALT) | GROOVING FOR 12" RECESSED
PAVEMENT MARKING, (ASPHALT) | GROOVING FOR 6" RECESSED
PAVEMENT MARKING, (ASPHALT) | GROOVING FOR 6" RECESSED
PAVEMENT MARKING, (CONCRETE) | GROOVING FOR 12" RECESSED
PAVEMENT MARKING, (CONCRETE) |
| | | | | FT/MIL | FT/MILE | FT | FT | FT | EACH | EACH | FT/MILE | FT/MILE | FT | FT/MILE | FT/MILE | FT/MILE | FT | FT | FT/MILE | FT | FT | FT/MILE | FT |
| | I-71 | YE-21,
LL-40,
LL-41,
WE-23 | 730+00 RT TO 740+00 RT | | | | | | | | | | | 1000 | 1000 | 2000 | | | 4000 | | | | |
| | | YE-22
WE-24
LL-42
WW-1 | 229+90 LT TO 239+29 LT 229+90 TO 239+29 RT 229+90 LT TO 235+00 LT 234+70 LT TO 234+70 LT | | | | | | | 1 | | | | 939 | 939 | 510 | | | 939
939
510 | | | | |
| 488 | | CH-9,
CH-10 | 235+50 LT TO 239+29 LT | | | | | | | | | | | | | | 758 | | | 758 | | | |
| | CD ROAD | CH-11
A-1 | 235+50 TO 239+29
235+58 | | | | | | Δ | | | | | | | | 379 | | | 379 | | | |
| | | A-2 | 236+44
237+32 | | | | | | 4 | | | | | | | | | | | | | | |
| | | A-3
A-4 | 238+20 | | | | | | 4 | | | | | | | | | | | | | | |
| | | A-5 | 239+08 | | | | | | 4 | | | | | | | | | | | | | | |
| 489 | I-71 | YE-23,
WE-25
LL-43,
LL-44 | 740+00 RT TO 740+90 RT
740+00 RT TO 743+90 RT | | | | | | | | | | | 90 | 90 | 780 | | | 180
780 | | | | |
| | | | | | | | | | | ^ | ~~~~ | ~~~~~ | *************************************** | **** | ******* | ****** | • | ****** | *************************************** | ~~~~~ | ****** | ****** | |
| .490 | RAMP A | WE-26
CH-12
YE-24 | 892+00 TO 896+00 RT 892+00 RT TO 894+46 RT 894+46 RT TO 896+00 RT | | | | | | | 4 | 153 | 153 | | 1 | 247 | | 246 | | 1 | 246 | | 153 | |
| .491 | RAMP A | WE-27,
YE-25 | 896+00 RT TO 899+99 RT TO 901+00 RT | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | | | | 406 | 402 | | 104 | 101 | | | | 205 | | | 808 | |
| .492 | RAMP A | YE-26
WE-28 | 901+00 RT TO 901+26 RT
901+00 RT TO 901+49 RT | | | | | | | | 26 | 49 | | 101 | 101 | | | | 203 | | | 26
49 | |
| .493 | RAMP B | WE-29 | 479+14 TO 484+00 | | | | | | | | > | | | | 486 | | | | 486 | | | | |
| .494 | RAMP B | WE-30
CH-13
YE-27 | 484+00 TO 489+00
484+21 LT TO 487+14 LT
487+14 LT TO 489+00 LT | | | | | | | | 186 | 186 | | | 314 | | 293 | | 314 | 293 | | 186 | |
| | | Y-28 | 489+00 LT TO 494+00 LT | | | | | | | | 500 | | | | | | | | | | | 500 | |
| | | WE-31
WW-2 | 489+00 TO 494+00 RT 490+79 LT TO | | | | | | | 1 | } | 500 | | | | | | | | | | 500 | |
| .495 | RAMP B | CH-14
CH-15
A-6, A-7 | 491+50 TO 494+00 491+50 LT TO 494+00 LT 491+67 LT TO 494+00 LT | | | | | | 2 | 1 | | | 250
250 | | | | | | | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 250
250 |
| | | A-8
A-9, A-10 | 491+67 RT
492+55 LT | | | | | | 2 | | } | | | | | | | | | | | | |
| | | A-11
A-12,A-13
A-14 | 492+55 RT
493+43 LT
493+43 RT | | | | | | 1
2
1 | | \ | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \ | |
| | | | | | | | | | | | | | | | | | | | | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | |
| | | TOTA | LS THIS SHEET | | | | | | | | 1271 | 1290 | | 2134 | 3177 | 3290 | | | 8601 | | | 2561 | |
| | | | RIED TO SHEET P.473 | | | | | | 29 | 2 | 0.24 | 0.24 | 500 | 0.40 | 0.60 | 0.62 | 1676 | | 1.63 | 1676 | | 0.49
SED: P1R4 | 500 |

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. AT LEAST 48 HOURS BEFORE DIGGING, THE CONTRACTOR SHALL CALL THE OHIO UTILITIES PROTECTION SERVICE, TOLL-FREE, 800-362-2764. NON-MEMBER UTILITY COMPANIES MUST BE CALLED DIRECTLY. SEE SHEET P.20 FOR ADDITIONAL UTILITY INFORMATION.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIAL OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER.

EXISTING LIGHTING ITEMS, DUCT CABLE AND CONDUIT

THE LOCATION OF EXISTING LIGHTING ITEMS, CONDUIT AND DUCT CABLE SHOWN ON THE PLANS HAVE BEEN OBTAINED BY SEARCHES OF AVAILABLE RECORDS AND FIELD CHECKS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, HOWEVER, THE STATE OF OHIO DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. FIELD VERIFY ALL CIRCUITS.

EXISTING ODOT CONTROL CENTERS

THE CONTRACTOR SHALL CONTACT ODOT DISTRICT 6 TO OBTAIN KEYS TO THE EXTERNAL DISCONNECT HANDLES OF EXISTING CONTROL CENTER ENCLOSURES. THE AFFECTED EXISTING CONTROL CENTERS AND THEIR LOCATIONS ARE AS FOLLOWS:

- CONTROL CENTER '5' (CKTS 'A' & 'B') STA. 740+70± I-71, LT.

CIRCUITS SHALL BE TURNED "OFF" AS NECESSARY TO SAFELY WORK ON THE AFFECTED CIRCUITS. THE ENCLOSURES SHALL REMAIN LOCKED. ALL REMAINING CIRCUITS SHALL REMAIN "ON" UNLESS OTHERWISE APPROVED BY THE ENGINEER. UPON COMPLETION OF A PARTICULAR CIRCUIT'S WORK, THE CONTRACTOR SHALL RESTORE POWER TO THAT CIRCUIT, UNLESS THE CIRCUIT HAS BEEN DEACTIVATED.

EXISTING CABLE AND CONDUIT

EXISTING CIRCUIT CABLES IN TRENCH WHICH HAVE BEEN REPLACED AS INDICATED IN THE PLANS (INCLUDING CONDUIT, DISTRIBUTION CABLE, AND DUCT CABLE) MAY BE ABANDONED IN PLACE OR REMOVED. THE REMOVAL OR ABANDONMENT OF THESE ITEMS WHICH ARE NOT ITEMIZED SEPARATELY SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS LIGHTING ITEMS IN THE PROJECT.

ITEM 625 TRENCH

TRENCH SHALL BE AS PER 625.13. IN ADDITION, ALL TRENCHING IN PAVED AREAS AND AREAS TO BE PAVED SHALL BE PERFORMED PRIOR TO THE PLACEMENT OF PAVEMENT.

ITEM 625, POWER SERVICE, AS PER PLAN B

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING SHALL APPLY.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY: AMERICAN ELECTRIC POWER ADDRESS: 700 MORRISON ROAD, GAHANNA, OH 43230 PHONE #: (614) 883-7963 CONTACT NAME: ERIK SCHAAS

POWER SERVICE: 480 VOLT, 3-WIRE, SINGLE PHASE, GROUNDED NEUTRAL. THIS PROJECT HAS BEEN DESIGNED ON THE BASIS OF 5% VOLTAGE DROP WITH A MAXIMUM UNIFORMITY RATIO OF 4.0 TO 1.0 FOR CONVENTIONAL UNITS AND 3.0 TO 1.0 FOR HIGH MAST UNITS.

ALL POWER SERVICES SHALL BE METERED. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN FIVE (5) FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND. A NON-FUSED DISCONNECT SHALL BE INSTALLED ON THE POWER SIDE OF THE METER BASE. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES AND DISCONNECTS.

THE CONTRACTOR SHALL PAY ALL ELECTRICAL ENERGY CHARGES FOR NEW POWER SERVICES ESTABLISHED BY THIS PROJECT. UPON ACCEPTANCE OF THE LIGHTING WORK, USUALLY AT THE COMPLETION OF THE PROJECT, AND AFTER WRITTEN AUTHORIZATION FROM THE DISTRICT CONSTRUCTION ENGINEER. POWER SERVICE ELECTRICAL ENERGY ACCOUNTS SHALL BE TRANSFERRED TO THE MAINTAINING AGENCY. THIS SHALL INCLUDE NEW POWER SERVICE ESTABLISHED BY `THIS PROJECT AS WÊLL AS RÉASSIGNMENT OF EXISTING SÉRVICE DUÉ TO WORK PERFORMED BY THIS PROJECT. IF POWER SERVICE IS TRANSFERRED PRIOR TO RECEIVING THE WRITTEN AUTHORIZATION, A DISINCENTIVE OF \$100 PER DAY SHALL BE ASSESSED FOR EACH CALENDAR DAY OF NON-COMPLIANCE.

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

HIGH VOLTAGE TEST WAIVED

THE HIGH VOLTAGE TEST SHALL NOT BE PERFORMED ON ANY EXISTING CIRCUITS MODIFIED BY THIS PROJECT, SINCE THE TEST COULD DAMAGE THE PORTION OF THE COMPLETED CIRCUIT WHICH HAS BEEN IN SERVICE PRIOR TO THIS PROJECT.

PADLOCKS AND KEYS

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

ITEM 625 - SERVICE TO UNDERPASS LIGHTING

THIS ITEM SHALL CONSIST OF PROVIDING COMPLETE ELECTRICAL SERVICE, EXCEPT FOR LUMINAIRES AND STRUCTURE GROUNDING FOR AN UNDERPASS LIGHTING SYSTEM ON THE VARIOUS UNDERPASSES SHOWN IN THE PLANS.

THE INSTALLATION WORK SHALL INCLUDE DISCONNECT SWITCH WITH ENCLOSURE, CONDUITS, CONDUIT GROUNDING, MOUNTINGS, FITTINGS, JUNCTION BOXES, CABLES, AND ALL INCIDENTALS NECESSARY TO COMPLETE READY FOR USE, THE SERVICE AS SHOWN IN THE LIGHTING PLANS. ALL CONDUITS AND FITTINGS SHALL BE SCH-80 PVC. CABLE FOR UNDERPASS LIGHTING SHALL BE #10 AWG (MINIMUM).

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR ITEM 625. "SERVICE TO UNDERPASS LIGHTING" AND SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR, AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

ITEM - 625 ARC FLASH CALCULATIONS AND LABEL, (BY LOCATION)

THE CONTRACTOR SHALL SATISFY THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 825 FOR EACH OF THE NEW LIGHTING CONTROL CENTERS INDICATED IN THE PLANS.

THE CONTRACTOR MAY BE ABLE TO OBTAIN LABELS FOR ODOT MAINTAINED INSTALLATIONS FROM THE ODOT SIGN SHOP, 1606 WEST BROAD STREET, COLUMBUS, OH 43223. FOR NON-ODOT MAINTAINED INSTALLATIONS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE LABEL, MADE FROM "ENGINEER GRADE" SIGN SHEETING OR AN EQUIVALENT COMMERCIAL LABEL MATERIAL.

THE ODOT OFFICE OF ROADWAY ENGINEERING HAS AN EXCEL SPREADSHEET, AVAILABLE UPON REQUEST, TO ASSIST WITH MAKING AND DOCUMENTING THE REQUIRED CALCULATIONS.

METHOD OF MEASUREMENT SHALL BE PER 825.06.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

1 EACH

ARC FLASH CALCULATIONS AND LABEL (CC-'S')

ITEM 625 - RE-ERECT EXISTING LIGHT TOWER, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF INSTALLING AN EXISTING LIGHT TOWER REMOVED FROM A PREVIOUS LOCATION ON THE PROJECT SITE OR SUPPLIED TO THE PROJECT BY OTHERS.

WHEN REQUIRED, ADDITIONAL LUMINAIRE BRACKET ARMS SHALL BE ADDED TO THE EXISTING LUMINAIRE BRACKETS RELOCATED ALONG WITH THE NECESSARY ADJUSTMENTS AND ADDITIONS TO THE LUMINAIRE WIRING TO ENABLE THE LUMINAIRES TO BE MOUNTED SYMMETRICALLY AROUND THE LUMINAIRE MOUNTING RING.

WHERE THE TOWER WILL BE INSTALLED ON A NEW FOUNDATION, NEW ANCHOR BOLTS SHALL BE FURNISHED.

THE TOWER AND LOWERING MECHANISM SHALL BE CLEANED AND LUBRICATED.

ANY REPAIRS AND ADJUSTMENTS NECESSARY TO RETURN THE TOWER AND MECHANISM TO GOOD OPERATING CONDITION SHALL BE MADE.

THE EXISTING LIGHT TOWER IDENTIFICATION DECAL SHALL BE REMOVED, AND A NEW DECAL FOR THE NEW IDENTIFICATION NUMBER FURNISHED AND INSTALLED.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID UNDER C&MS ITEM 625, "RE-ERECT EXISTING LIGHT TOWER, AS PER PLAN" FOR EACH TOWER RE-ERECTED WHICH SHALL INCLUDE ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

CONDUIT EXPANSION AND DEFLECTION

EXPANSION FITTINGS SHALL BE OZ TYPE AX, CROUSE HINDS TYPE XJG, OR EQUAL APPROVED BY THE ENGINEER. EACH EXPANSION FITTING SHALL PROVIDE EITHER 4 OR 8 INCHES TOTAL MOVEMENT AS SPECIFIED BY THE PLAN DETAILS AND SHALL HAVE AN EXTERNAL COPPER BONDING JUMPER, UNLESS SPECIFIED OTHERWISE BY THE PLAN DETAILS.

DEFLECTION COUPLINGS SHALL BE OZ TYPE DX, CROUSE HINDS TYPE XD, OR EQUAL APPROVED BY THE ENGINEER. EACH DEFLECTION COUPLING SHALL HAVE AN EXTERNAL COPPER BONDING JUMPER, UNLESS SPECIFIED OTHERWISE BY THE PLAN DETAILS. MINIMUM DEFLECTION CAPABILITY: 25°.

EXPANSION AND DEFLECTION FITTINGS FULLY OR PARTIALLY EMBEDDED IN CONCRETE, SOIL, OR SIMILAR MATERIAL SHALL BE COMPLETELY WRAPPED IN A NEOPRENE SLEEVE OR SHEET OF 1/2-INCH MINIMUM THICKNESS.

SECURE NEOPRENE WRAP WITH TIE-WRAPS PRIOR TO EMBEDMENT OF THE FITTING.

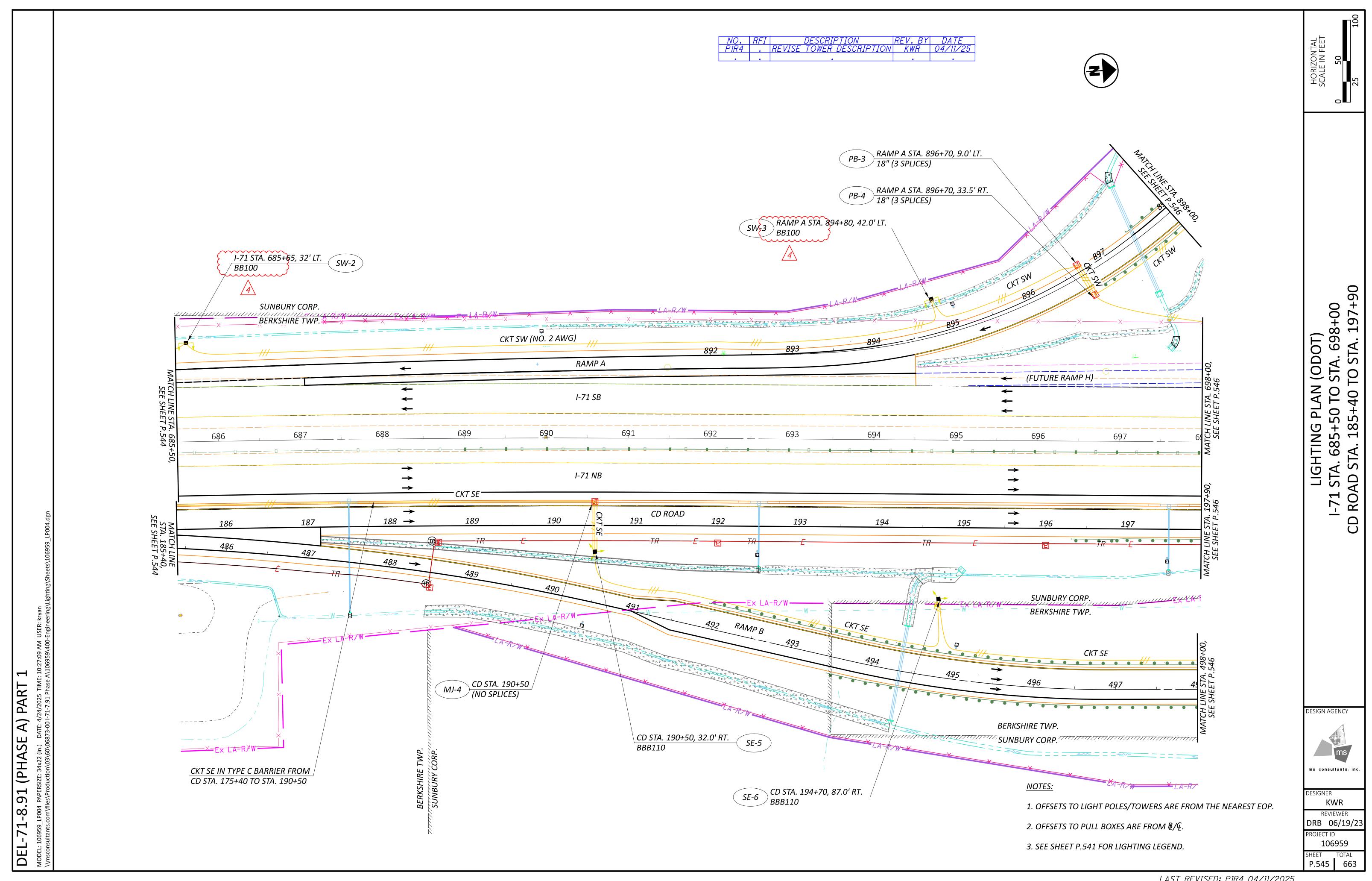
REV. BY DATE
KWR 4/24/25 DESCRIPTION REVISED NOTE

ESIGN AGENCY ns consultants, in

> ESIGNER KWR REVIEWER DRB 11/10/23 ROJECT ID 106959

P.536 663

LAST REVISED: P1R4 04/24/2025



<u>ITEM 625, POWER SERVICE, AS PER PLAN C</u>

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS. THE FOLLOWING SHALL APPLY.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY: AMERICAN ELECTRIC POWER ADDRESS: 700 MORRISON ROAD, GAHANNA, OH 43230 PHONE #: (614) 883-7963 CONTACT NAME: ERIK SCHAAS

POWER SERVICE: 240 VOLT, 3-WIRE, SINGLE PHASE, GROUNDED NEUTRAL. THIS PROJECT HAS BEEN DESIGNED ON THE BASIS OF 5% VOLTAGE DROP WITH A MAXIMUM UNIFORMITY RATIO OF 4.0 TO 1.0 FOR CONVENTIONAL UNITS AND 3.0 TO 1.0 FOR HIGH MAST UNITS.

ALL POWER SERVICES SHALL BE METERED. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN FIVE (5) FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND. A NON-FUSED DISCONNECT SHALL BE INSTALLED ON THE POWER SIDE OF THE METER BASE. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES AND DISCONNECTS.



THE CONTRACTOR SHALL PAY ALL ELECTRICAL ENERGY CHARGES FOR NEW POWER SERVICES ESTABLISHED BY THIS PROJECT. UPON ACCEPTANCE OF THE LIGHTING WORK, USUALLY AT THE COMPLETION OF THE PROJECT, AND AFTER WRITTEN AUTHORIZATION FROM THE DISTRICT CONSTRUCTION ENGINEER, POWER SERVICE ELECTRICAL ENERGY ACCOUNTS SHALL BE TRANSFERRED TO THE MAINTAINING AGENCY. THIS SHALL INCLUDE NEW POWER SERVICE ESTABLISHED BY THIS PROJECT AS WELL AS REASSIGNMENT OF EXISTING SERVICE DUE TO WORK PERFORMED BY THIS PROJECT. IF POWER SERVICE IS TRANSFERRED PRIOR TO RECEIVING THE WRITTEN AUTHORIZATION, A DISINCENTIVE OF \$100 PER DAY SHALL BE ASSESSED FOR EACH CALENDAR DAY OF NON-COMPLIANCE.

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

ITEM - 625 ARC FLASH CALCULATIONS AND LABEL, (BY LOCATION)

THE CONTRACTOR SHALL SATISFY THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 825 FOR EACH OF THE NEW LIGHTING CONTROL CENTERS INDICATED IN THE PLANS.

THE CONTRACTOR MAY BE ABLE TO OBTAIN LABELS FOR ODOT MAINTAINED INSTALLATIONS FROM THE ODOT SIGN SHOP, 1606 WEST BROAD STREET, COLUMBUS, OH 43223. FOR NON-ODOT MAINTAINED INSTALLATIONS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE LABEL, MADE FROM "ENGINEER GRADE" SIGN SHEETING OR AN EQUIVALENT COMMERCIAL LABEL MATERIAL.

THE ODOT OFFICE OF ROADWAY ENGINEERING HAS AN EXCEL SPREADSHEET, AVAILABLE UPON REQUEST, TO ASSIST WITH MAKING AND DOCUMENTING THE REQUIRED CALCULATIONS.

METHOD OF MEASUREMENT SHALL BE PER 825.06.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL **SUMMARY:**

ARC FLASH CALCULATIONS AND LABEL (CC-'W')

1 EACH

ITEM 625 - LIGHT POLE, CONVENTIONAL, AS PER PLAN, AT6B31

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATION MIS-305 AND SHALL BE HAPCO B74135P1 OR APPROVED EQUAL AND BE PAINTED BLACK.

ITEM 625 - LUMINAIRE, TEARDROP, SOLID STATE (LED), REFRACTIVE GLASS, 3000K, BLACK FINISH

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

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

THIS ITEM CONSISTS OF A BASE FITTER, 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 SPEC 913.

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

ASSURE THE LUMINAIRE IS COMPATIBLE WITH A 240V LIGHTING SYSTEM.

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

THE LUMINAIRE SHALL BE HOLOPHANE ESPLANADE, 112W, ESL3-P35S-30K-MVOLT-TG3-BK, KING K804 CORONET, 130W, K804-P4SA-3X-120-30, OR APPROVED EQUAL.

| _ | | | | | |
|---|------|-----|--------------|---------|---------|
| | NO. | RFI | DESCRIPTION | REV. BY | DATE |
| | P1R4 | | REVISED NOTE | KWR | 4/24/25 |
| | • | | • | • | • |

ESIGN AGENCY ns consultants, inc ESIGNER KWR REVIEWER DRB 11/10/23 ROJECT ID 106959

P.555 663

LAST REVISED: P1R4 04/24/2025

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS: 800 DATED 07-21-23

 832
 DATED
 07-21-23

 840
 DATED
 07-21-23

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE:

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

VEHICULAR LIVE LOAD: HL-93 FUTURE WEARING SURFACE (FWS) OF 0.060 KSF

DESIGN DATA:

CONCRETE, CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE) CONCRETE, CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE) CONCRETE, CLASS QC5, WITH 3/8-IN. MAX. AGGREGATE SIZE - COMPRESSIVE STRENGTH 4.5 KSI (DRILLED SHAFT)

CONCRETE REINFORCEMENT:

EPOXY COATED STEEL REINFORCEMENT MINIMUM YIELD STRENGTH 60 KSI

USED IN: DECK, ABUTMENTS, PRESTRESSED I-BEAMS, PIERS, DRILLED SHAFTS

STEEL H-PILES - ASTM A572 - YIELD STRENGTH 50 KSI

PRESTRESSED CONCRETE BRIDGE MEMBERS:

CONCRETE FOR PRESTRESSED I-BEAM: COMPRESSIVE STRENGTH (FINAL) = 7.0 KSI COMPRESSIVE STRENGTH (RELEASE) = 6.0 KSI

WELDED WIRE FABRIC: YIELD STRENGTH = 70 KSI

PRESTRESSING STRAND: ASTM A416, UNCOATED, SEVEN WIRE STRAND AREA OF STRANDS = 0.217 SQ. IN. ULTIMATE STRENGTH = 270 KSI INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

MONOLITHIC WEARING SURFACE:

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 IN. THICK.

DECK PROTECTION METHOD:

PART

A

(PHASE

6

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EPOXY COATED REINFORCING STEEL $2\frac{1}{2}$ " CONCRETE COVER

PROPRIETARY RETAINING WALL DATA:

THE PROPRIETARY WALL SUPPLIER SHALL DESIGN THE INTERNAL STABILITY OF A MECHANICALLY STABILIZED EARTH (MSE) WALL IN ACCORDANCE WITH SS840 TO SUPPORT THE ABUTMENT. THE DESIGN FOR INTERNAL STABILITY SHALL INCLUDE A NOMINAL (I.E. UNFACTORED) HORIZONTAL STRIP LOAD DUE TO FRICTION (FR) FROM THE SUPERSTRUCTURE OF 1.10 K/FT APPLIED PERPENDICULAR TO THE FACE OF WALL AT THE BASE OF THE CONCRETE FOOTING. THIS STRIP LOAD DOES NOT INCLUDE EARTH PRESSURE LOADS FROM THE ABUTMENT BACKFILL. HOWEVER, THE PROPRIETARY WALL SUPPLIER SHALL INCLUDE EARTH PRESSURE LOADS FROM THE ABUTMENT BACKFILL IN THE DESIGN CALCULATIONS.

FOUNDATION BEARING RESISTANCE

THE MSE WALL 1 REINFORCED SOIL MASS, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LIMIT STATE BEARING PRESSURE OF 5.45 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LIMIT STATE BEARING PRESSURE OF 7.75 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 8.44 KIPS PER SQUARE FOOT.

THE MSE WALL 2 REINFORCED SOIL MASS, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LIMIT STATE BEARING PRESSURE OF 5.06 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LIMIT STATE BEARING PRESSURE OF 7.2 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 7.2 KIPS PER SQUARE FOOT.

ROCK SOCKETED DRILLED SHAFTS:

THE MAXIMUM FACTORED LOAD TO BE SUPPORTED BY EACH DRILLED SHAFT IS 1576 KIPS AT THE PIER. THIS LOAD IS RESISTED BY SIDE RESISTANCE WITHIN A PORTION OF THE BEDROCK SOCKET. AT THE PIER, THE FACTORED SIDE RESISTANCE IS 1659 KIPS, ASSUMED TO ACT ALONG THE BOTTOM 16 FEET OF THE BEDROCK SOCKET.

LATERALLY LOADED DRILLED SHAFTS:

THE MAXIMUM FACTORED LATERAL LOAD AND BENDING MOMENT TO BE SUPPORTED BY EACH DRILLED SHAFT ARE 15.2 KIPS AND 559 KIP-FT, RESPECTIVELY. THESE LOADS PRODUCE A MAXIMUM FACTORED BENDING MOMENT OF 596 KIP-FT, AND A MAXIMUM FACTORED SHEAR OF 55 KIPS, WITHIN THE DRILLED SHAFT.

DECK PLACEMENT DESIGN ASSUMPTIONS:

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.2 KIPS (FOR PART WIDTH PHASED CONSTRUCTION).

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103 IN.

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 IN.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65 IN.

TEMPORARY LATERAL SUPPORTS TO PREVENT BEAM ROTATION DURING DECK PLACEMENT ARE REQUIRED FOR THE TWO BEAMS IN EACH CONSTRUCTION PHASE. THE TEMPORARY LATERAL SUPPORTS SHALL BE PROVIDED AT EACH INTERMEDIATE DIAPHRAGM LOCATION AND AT BOTH BEAM ENDS.

TEMPORARY LATERAL SUPPORT SYSTEMS SHOULD BE CAPABLE OF FORMING FORCE COUPLES TO RESIST THE TORSION PRODUCED BY OVERHANG WET CONCRETE, FALSEWORK, SCREEDING MACHINE AND CONSTRUCTION LIVE LOADS.

IF SUPPORT SYSTEMS ARE PROVIDED BETWEEN BEAMS, TYPICAL TEMPORARY LATERAL SUPPORT SYSTEMS CONSIST OF TIE-RODS FOR THE TOP FLANGE AND TIMBER BLOCKS FOR THE BOTTOM FLANGE. EACH TEMPORARY LATERAL SUPPORT ASSEMBLY SHALL PROVIDE HORIZONTAL RESISTANCE OF 25 KIPS AT TOP AND BOTTOM FLANGES.

BRIDGE SEAT ELEVATIONS:

BRIDGE SEAT ELEVATIONS HAVE BEEN ADJUSTED UPWARD $\frac{1}{8}$ INCHES AT BOTH ABUTMENTS AND $\frac{1}{8}$ INCHES AT THE PIER TO COMPENSATE FOR THE VERTICAL DEFORMATION OF THE BEARINGS.

DECK PLACEMENT SEQUENCE

ABUTMENT DIAPHRAGM CONCRETE, PHASED CONSTRUCTION: PLACE THE DIAPHRAGM CONCRETE ENCASING THE STRUCTURAL MEMBER ENDS OF AN INDIVIDUAL PHASE WITH THE DECK CONCRETE OR AT LEAST 48 HOURS BEFORE PLACEMENT OF THE DECK CONCRETE. IF PLACED SEPARATELY, LOCATE A HORIZONTAL CONSTRUCTION JOINT IN THE DIAPHRAGM AS SHOW ON PSID-1-13. SHEET 7 OF 10. PLACE CLOSURE PORT CONCRETE IN THE DIAPHRAGM AND DECK CONCURRENTLY.

<u> ITEM 203 - EMBANKMENT, AS PER PLAN</u>

PLACE AND COMPACT EMBANKMENT MATERIAL IN 6-IN LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT BETWEEN STATIONS 85+50.00 AND 87+06.80 AND BETWEEN STATIONS 89+41.09 AMD 91+00.00.

ITEM 507 - STEEL PILES HP10x42, FURNISHED, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL PILES INTO PREBORED HOLES. PLACE EACH PILE VERTICALLY WITHIN THE HOLE SO IT IS NOT INCLINED MORE THAN ONE INCH BETWEEN THE TOP AND BOTTOM. SUPPORT THE PILE SO THAT IT DOES NOT MOVE DURING PLACEMENT OF BACKFILL MATERIAL. DO NOT REMOVE SUPPORTS FROM THE PIER PULES UNTIL THEY CAN FULLY SUPPORT THE PIER CAPS.

THE TOTAL FACTORED LOAD IS 403 KIPS PER PILE FOR REAR ABUTMENT PILES.

THE TOTAL FACTORED LOAD IS 438 KIPS PER PILE FOR FORWARD ABUTMENT PILES.

REAR ABUTMENT PILES:

HP10x42 PILES 50 FEET LONG, ORDER LENGTH (PILE NO. 1-11 & 22-27) HP10x42 PILES 55 FEET LONG, ORDER LENGTH (PILE NO. 12-21 & 28-32)

FORWARD ABUTMENT PILES:

HP10x42 PILES 45 FEET LONG, ORDER LENGTH (PILE NO. 33-64)

ITEM 507 - PREBORED HOLES, AS PER PLAN:

PREBORED HOLES SHALL EXTEND AT LEAST 5-FT INTO BEDROCK AT EACH PILE. THE DIAMETER OF THE PREBORED HOLE SHALL BE A MINIMUM 2-IN LARGER THAN THE DIAGONAL DIMENSION OF THE PILE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AN OPEN HOLE.

THE PREBORED HOLES SHALL BE CLEAN AND FREE OF ALL DELETERIOUS MATERIALS PRIOR TO BACKFILLING OPERATIONS. BACKFILL THE VOID BETWEEN THE PILE AND THE PREBORED HOLES WITH CLASS QC MISC. CONCRETE UP TO THE BOTTOM OF THE PILE SLEEVE. ABOVE THE BOTTOM OF PILE SLEEVE, BACKFILL THE VOID TO THE BOTTOM OF FOOTING ELEVATION WITH GRANULAR MATERIAL CONFORMING TO 703.11, STRUCTURAL BACKFILL TYPE 2, EXCEPT 100 PERCENT OF THE MATERIAL SHALL PASS THROUGH A $\frac{3}{4}$ " SIEVE. PAYMENT FOR THE PREBORED HOLES INCLUDES THE BACKFILL MATERIAL.

ITEM 840 - FOUNDATION PREPARATION, AS PER PLAN:

AFTER THE FOUNDATION HAS BEEN ACCEPTED, SPREAD, PLACE, AND COMPACT 3'-0" OF GRANULAR MATERIAL TYPE C ACCORDING TO THE REQUIREMENTS OF CMS 204.07.

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ABBREVIATIONS:

ABUT. - ABUTMENT APPR. - APPROACH B - BASELINE B.F. - BACK FACE

B/FTG. - BOTTOM OF FOOTING BOT. - BOTTOM BTWN - BETWEEN BRG. - BEARING

C.I.P. - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
C/C - CENTER-TO-CENTER

CLR. - CLEAR
CONSTR. - CONSTRUCTION
DIA. - DIAMETER
DWG. - DRAWING
E.F. - EACH FACE
EA. - EACH

EL./ELEV. - ELEVATION EOP - EDGE OF PAVEMENT EQ. - EQUAL

EX. - EXISTING F.A. - FORWARD ABUTMENT

F.F. - FAR FACE
FWD. - FORWARD
JT. - JOINT
LT. - LEFT
MAX. - MAXIMUM
MEAS. - MEASURED
MIN. - MINIMUM
M.U.P - MULTI-USE PATH

M.U.P - MULTI-USE PATH
N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

N.F. - NEAR FACE N.T.S. - NOT TO SCALE NO. - NUMBER

P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE O/O - OUT-TO-OUT P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

P.G. - PROFILE GRADE
PROP. - PROPOSED
PT. - POINT
R - RADIUS
R.A. - REAR ABUTMEN

REAR ABUTMENT RT. RIGHT SHLDR. SHOULDER SPA. **SPACING** S.R. STATE ROUTE STA. **STATION** STANDARD T/FTG. TOP OF FOOTING T/SLOPE TOP OF SLOPE TOP OF ROCK **TEMPORARY**

T/ROCK - TOP OF SLOP
TEMP. - TEMPORARY
TYP. - TYPICAL
VAR. - VARIES
W/ - WITH
WW - WINGWALL

234'-3½" (BRIDGE LIMITS) 1'-6" 107'-0½" (SPAN 1) 124'-3" (SPAN 2) 1'-6" 107'-0½" (SPAN 1) 1'-6" 107'-0½" (SPAN 1) 1'-6" 107'-0½" (SPAN 1) 1'-6" 107'-0½" (SPAN 1) 1'-6" 1'-

NO.DESCRIPTIONREV. BYDATEP1R4ADDED NOTEATM 04/23/25

DECK PLACEMENT SEQUENCE

- DENOTES ORDER OF DECK PLACEMENT SEQUENCE

GENERAL NOTES BRIDGE NO. DEL-00071 OVER I-71

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DESIGN AGENCY

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P.566 663

UBSET

| DEL-/1-8.91 (P | (PHASE A) PAKI I |
|-------------------------------------|---|
| MODEL: Sheet PAPERSIZE: 34x22 (in. | MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 8:57:19 AM USER: amcdaniel |
| N:\03\60\06873-00 I-71-7.91 Phase A | hase A\106959\400-Engineering\Structures\SFN_2102440\Sheets\106959_SFN_2102440_SQ001. |

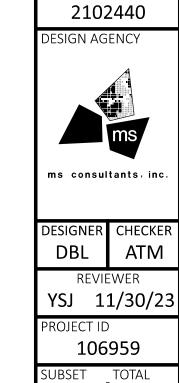
| | | | | | | CALC | DBL | DATE | 6/28/23 |
|------------|----------------|--------------|----------|---|--------|--------|--------------|---------|----------|
| | | | | ESTIMATED OLIANITITIES | | CHECK | ATM | DATE | 6/28/23 |
| | | | | ESTIMATED QUANTITIES | | 1 | | | |
| ITEM | ITEM EXT. | TOTAL | UNIT | DESCRIPTION | ABUT. | PIERS | SUPER. | GENERAL | SHEET RI |
| 507 | 00101 | 3,125 | FT | STEEL PILES HP10X42, FURNISHED, AS PER PLAN | 3,125 | | | | 2/34 |
| 507 | 92201 | 1,366 | FT | PREBORED HOLES, AS PER PLAN | 1,366 | | | | 2/34 |
| 509 | 10000 | 404,371 | LB | EPOXY COATED STEEL REINFORCEMENT | 33,415 | 41,075 | 329,881 | | |
| 509 | 30020 | 8,822 | FT | NO. 4 GFRP DEFORMED BARS | | | 8,822 | | |
| 511 | 33418 | 293 | CY | CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE | | | 293 | | |
| 511 | 33500 | 4 | EACH | SEMI-INTEGRAL DIAPHRAGM GUIDE | 4 | | 233 | | |
| 511 | 34446 | 1,063 | CY | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK | , | | 1,063 | | |
| 511 | 34450 | 90 | СҮ | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET) | | | 90 | | |
| 511 | 41012 | 183 | CY | CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS | | 183 | | | |
| 511 | 46512 | 235 | СҮ | CLASS QC1 CONCRETE WITH QC/QA, FOOTING | 235 | | | | |
| 511 | 50212 | 141 | CY | CLASS QC1 CONCRETE WITH QC/QA, SUBSTRUCTURE | 141 | | | | |
| 511 | 51512 | 355 | CY | CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK | | | 355 | | |
| 511 | 53010 | 8 | CY | CLASS QC1 CONCRETE, MISC.: 6" CONCRETE SLAB | | | | 8 | 11/3 |
| 512 | 10100 | 2,846 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | 142 | 395 | 2,309 | | |
| 512 | 33000 | 9 | SY | TYPE 2 WATERPROOFING | | | 9 | | |
| | | - | 1 | | | | | | |
| 515 | 15120 | 16 | EACH | DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF66-49 (108'-0" LONG) | | | 16 | | |
| 515 | 15120 | 16 | EACH | DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF66-49 (125'-7" LONG) | | | 16 | | |
| 515 | 20000 | 90 | EACH | INTERMEDIATE DIAPHRAGMS | | | 90 | | |
| 516 | 10010 | 303 | FT | ARMORLESS PREFORMED JOINT SEAL | | | 303 | | |
| 516 | 13600 | 27 | SF | 1" PREFORMED EXPANSION JOINT FILLER | | | 27 | | |
| 516 | 13900 | 145 | SF | 2" PREFORMED EXPANSION JOINT FILLER | 145 | | | | |
| 516 | 25000 | 1,025 | SF | NYLON REINFORCED NEOPRENE SHEETING | 1,025 | | | | |
| 516 | 44200 | 32 | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-7" x 1'-4" X 3 ½" PAD, 3'-3 ½" x 1'-5" x 1 ½" STEEL LOAD PLATE) | | 32 | | | |
| 516 | 46900 | 32 | EACH | BEARING DEVICE MISC.: ELASTOMERIC BEARING ASSEMBLY | 32 | | | | 14 / 34 |
| 517 | 75122 | 589 | FT | RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING AND VANDAL PROTECTION FENCE) (ALTERNATE 1)* | | | 589 | | |
| 518 | 21200 | 255 | CV | POROUS BACKFILL WITH GEOTEXTILE FABRIC | 255 | | | | |
| 518 | 40000 | 303 | FT | 6" PERFORATED CORRUGATED PLASTIC PIPE | 303 | | | | |
| 518 | 40010 | 43 | FT | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS | 43 | | | | |
| 524 | 94904 | 144 | FT | DRILLED SHAFTS, 48" DIAMETER, INTO BEDROCK | | 144 | | | |
| 524 | 94906 | 152 | FT | DRILLED SHAFTS, 54" DIAMETER, ABOVE BEDROCK | | 152 | | | |
| E2C | 20010 | 1 000 | CV | DEINICODCED CONCRETE ADDDOACH SLADS WITH OC /OA /T=17"\ | | | 1 000 | | |
| 526
526 | 30010
90030 | 1,009
303 | SY
FT | REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17") TYPE C INSTALLATION | | | 1,009
303 | | |
| | | | | ************************************** | ······ | ***** | | ***** | ~~~ |
| 607 | 39930 | 565 | FT | VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC (ALTERNATE 1) ** | | | 565 | ····· | |
| 613 | 41250 | 70 | CY | LOW STRENGTH MORTAR BACKFILL (TYPE 1) | | | | 70 | |

CARRIED TO GENERAL SUMMARY UNDER STRUCTURE ALTERNATES (SEE NOTE 2)

NOTES:

NO. DESCRIPTION REV. BY DATE PIR4 UPDATED VARIOUS QTYS ATM 04/23/25

- 1. FOR MSE WALL 1 AND MSE WALL 2 QUANTITIES, SEE SHEET 31/34.
- 2. FOR ALTERNATE AESTHETIC FENCE NOTES AND DETAILS, SEE PART 2.



SHEET TOTAL **P.567 663**

ESTIMATED QUANTITIES BRIDGE NO. DEL-00071-08.910 OVER I-71

<sup>\*\*</sup> CARRIED TO GENERAL SUMMARY UNDER ROADWAY ALTERNATES (SEE NOTE 2)



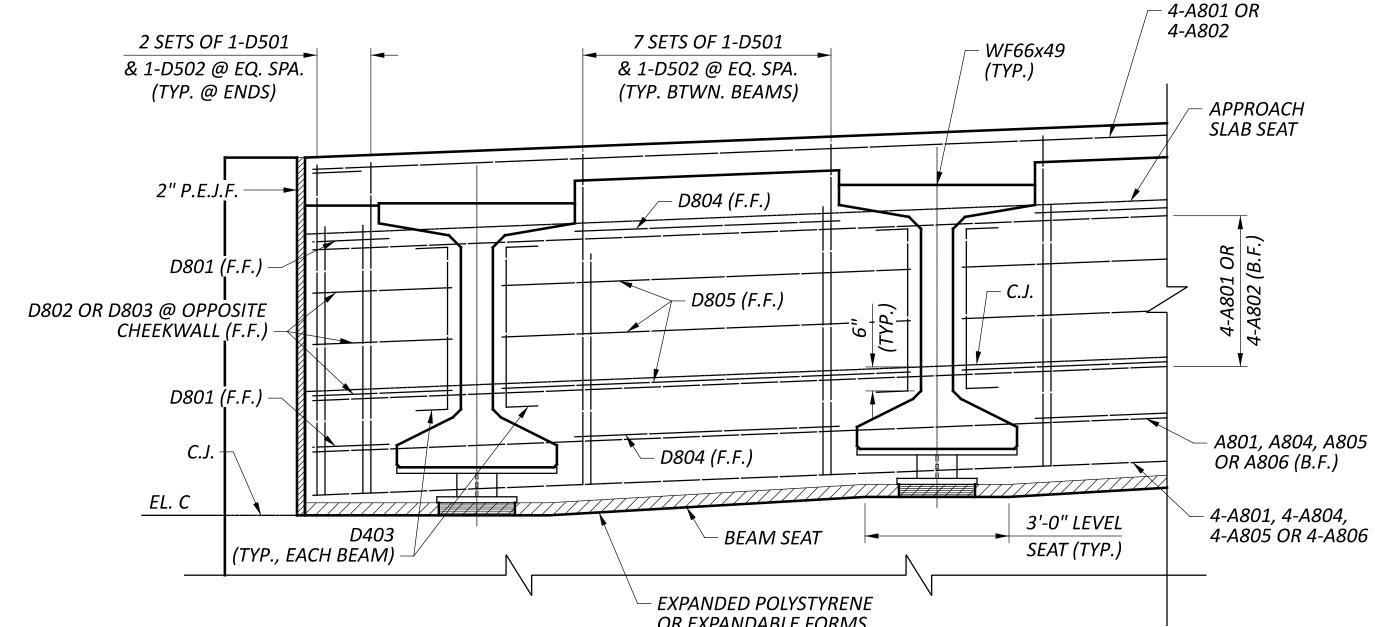
PART

A

-8.91 (PHASE

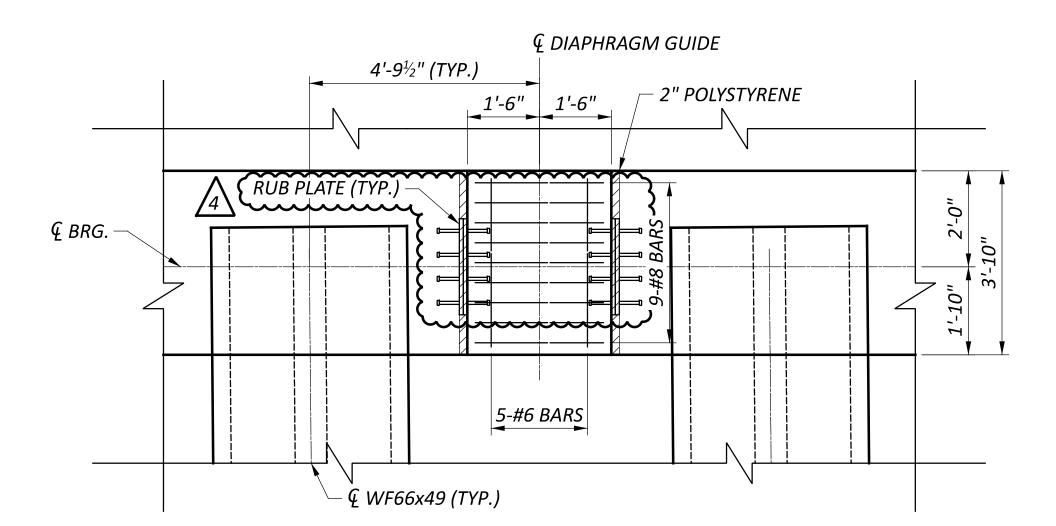
4-A504 OR 4-A516 EL. A @ EQ. SPA. (E.F.) (EL. C) ─ 3-A501 OR 3-A502 EL. D @ EQ. SPA. (E.F.) (T/FTG.) 2" P.E.J.F. — EL. E

CHEEKWALL ELEVATION VIEW

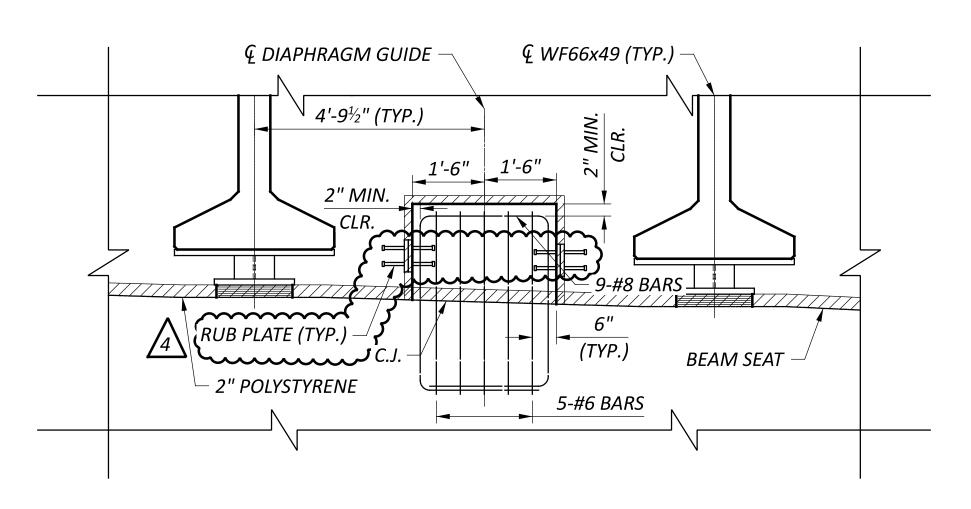


(CHEEKWALL REINFORCING NOT SHOWN)

DESCRIPTION ADDED RUB PLATE REV. BY DATE ATM 04/23/25



DIAPHRAGM GUIDE PLAN



DIAPHRAGM GUIDE ELEVATION

(ABUTMENT AND DIAPHRAGM REINFORCING NOT SHOWN)

| | | ELEVATIO | ON TABLE | |
|-------|-------------|-------------|-------------|-------------|
| ELEV. | CHEEKWALL 1 | CHEEKWALL 2 | CHEEKWALL 3 | CHEEKWALL 4 |
| A | 1004.52 | 1004.68 | 1003.44 | 1003.60 |
| В | 1004.55 | 1004.71 | 1003.37 | 1003.53 |
| С | 997.23 | 997.38 | 996.07 | 996.22 |
| D | 995.00 | 995.00 | 994.00 | 994.00 |
| Ε | 993.00 | 993.00 | 992.00 | 992.00 |

MINIMUM BAR LAP LENGTHS:

NO. 4 BAR = 1'-11" NO. 5 BAR = 2'-5" NO. 6 BAR = 3'-7"

NO. 8 BAR = 4'-9"

NOTES:

- FOR ADDITIONAL ABUTMENT DETAILS AND CHEEKWALL LOCATIONS, SEE SHEETS 5/34 THRU 9/34
- CONCRETE, REINFORCING STEEL, P.E.J.F., RUB PLATES, CAULK AND ALL OTHER ITEMS REQUIRED FOR THE INSTALLATION OF THE DIAPHRAGM GUIDE SHALL BE CONSIDERED INCIDENTAL AND INCLUDED FOR PAYMENT WITH ITEM 511 - SEMI-INTEGRAL DIAPHRAGM GUIDE.
- 3. FOR ADDITIONAL DIAPHRAGM GUIDE DETAILS, SEE STD. DWG. SICD-2-14.

2102440

ms consultants, inc.

DESIGNER CHECKER

DBL ATM

REVIEWER
YSJ 11/30/23

PROJECT ID 106959

SHEET TOTAL **P.595 663**

DESIGN AGENCY

| .L-/ T-0.JI (FI | |
|----------------------------------|---|
| :L: Sheet PAPERSIZE: 34x22 (in.) | 2 (in.) DATE: 4/24/2025 TIME: 1:56:55 PM USER: amcdaniel |
| \60\06873-00 I-71-7.91 Phase A\ | use A\106959\400-Engineering\Structures\SFN_2102440\Sheets\106959_SFN_2102440_WQ001.d |

| | | | | | | CALC | DATE |
|------|-------------|-----------|-------|-------|--|---|---------|
| | | | | | ECTINANTED OLIANITITIES | DBL | 7/14/23 |
| | | | | | ESTIMATED QUANTITIES | СНЕСК | DATE |
| | | | | | | ATM | 10/3/23 |
| | ITEM | ITEM EXT. | TOTAL | UNIT | DESCRIPTION | SHEET RE | FERENCE |
| ŀ | | | | | MSE WALL 1 | | |
| | 203 | 20001 | 689 | CY | EMBANKMENT, AS PER PLAN * | | |
| | 203 | 35110 | 893 | CY | GRANULAR MATERIAL, TYPE B | ~ | |
| 4 | | | | | |) | |
| | 512 | 10100 | 773 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | ~ | |
| | | | | | | | |
| - | 516 | 13600 | 154 | SF | 1" PREFORMED EXPANSION JOINT FILLER | | |
| - | | | | | | | |
| - | 611 | 99710 | 2 | EACH | PRECAST REINFORCED CONCRETE OUTLET | | |
| | <i>81</i> 0 | 20000 | 6,544 | SF | MECHANICALLY STABILIZED FARTH WALL | | |
| 4 | 840
840 | 21000 | 270 | CY | WALL EXCAVATION MECHANICALLY STABILIZED EARTH WALL WALL EXCAVATION | ~~~~~ | ····· |
| 7478 | 840
840 | 22001 | 695 | SY | FOUNDATION PREPARATION, AS PER PLAN | D 5 | |
| } | 840 | 23000 | 4,657 | WY CY | SELECT GRANULAR BACKFILL | ••••••••••••••••••••••••••••••••••••••• | |
| - | 840
840 | 25010 | 552 | FT | 6" DRAINAGE PIPE, PERFORATED | | |
| - | 040 | 23010 | | 11 | O DNAINAGE FIFE, FERT GRATED | | |
| ŀ | 840 | 25020 | 72 | FT | 6" DRAINAGE PIPE, NON-PERFORATED | | |
| ŀ | 840 | 26000 | 330 | FT | CONCRETE COPING | | |
| - | 840 | 27000 | 5 | DAY | ON-SITE ASSISTANCE | | |
| Ì | 840 | 28000 | LS | | SGB INSPECTION AND COMPACTION TESTING | | |
| İ | | | | | | | |

<sup>\*</sup> ITEM 203 - EMBANKMENT, AS PER PLAN TO BE CARRIED TO GENERAL SUMMARY

| | | | | | | CALC | DATE |
|--------|------|-----------|-------|------|---|-------------|----------|
| | | | | | ECTINANTED OLIANITITIES | ATM | 11/1/23 |
| | | | | | ESTIMATED QUANTITIES | CHECK | DATE |
| | | | | T | | YSJ | 2/28/24 |
| | ITEM | ITEM EXT. | TOTAL | UNIT | DESCRIPTION | SHEET R | EFERENCE |
| | | | | | MSE WALL 2 | | |
| | 203 | 20001 | 692 | CY | EMBANKMENT, AS PER PLAN * | | |
| | 203 | 35110 | 829 | CA | GRANULAR MATERIAL, TYPE B | | |
| χ | | | | | | 3 | |
| | 512 | 10100 | 694 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | | |
| | | 40000 | | | | | |
| | 516 | 13600 | 154 | SF | 1" PREFORMED EXPANSION JOINT FILLER | | |
| | 611 | 99710 | 2 | EACH | PRECAST REINFORCED CONCRETE OUTLET | | |
| F | 840 | 20000 | 5,831 | SF | MECHANICALLY STABILIZED EARTH WALL | | |
| λ¢ | 840 | 21000 | 256 | CY | WALL EXCAVATION | ~~~~ | ······ |
| 7 | 840 | 22001 | 706 | SY | FOUNDATION PREPARATION, AS PER PLAN | Р. | 566 |
| | 840 | 23000 | 4,109 | CY | SELECT GRANULAR BACKFILL | | |
| | 840 | 25010 | 554 | FT | 6" DRAINAGE PIPE, PERFORATED | | |
| - | 840 | 25020 | 155 | FT | 6" DRAINAGE PIPE, NON-PERFORATED | | |
| 一 | 840 | 26000 | 330 | FT | CONCRETE COPING | | |
| | 840 | 27000 | 5 | DAY | ON-SITE ASSISTANCE | | |
| | 840 | 28000 | LS | | SGB INSPECTION AND COMPACTION TESTING | | |

\* ITEM 203 - EMBANKMENT, AS PER PLAN TO BE CARRIED TO GENERAL SUMMARY

| NO. | DESCRIPTION | REV. BY | DATE |
|------|-----------------------|---------|----------|
| P1R4 | UPDATED VARIOUS ITEMS | ATM | 04/22/25 |
| | | | |

| |
 | SHEET NUM. | | | | | | | | | PART. | ALT | ITEM | GRAND | LINIT | SEE
DESCRIPTION SHEE | | |
|--------|------|------------|--|--|--|--|--|-----|------------|-----|---------------|-----|------|-------|-------|-------------------------|--|-----------------------|
| | | | | | | | | P.3 | | | 02/NHS
/08 | (X) | ITEM | EXT | TOTAL | UNIT | DESCRIPTION SH
N | |
| | | | | | | | | 565 | | | 565 | X | 607 | 98000 | 565 | FT | FENCE, MISC.:DECORATIVE FENCE (ALTERNATE 2) P | 2 ^ |
| \sim | | | | | | | | | ~~~ | ~~~ | | X | 517 | | | | RAILING, MISC.:CONC. PARAPET W/ TWIN STEEL TUBE RAIL & DECORATIVE PROTECTION FENCE (ALTERNATE 2) | 5 |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | QUANTITIES CARRIED TO PART 1, GENERAL SUMMARY, | |
| | | | | | | | | | | | | | | | | | "STRUCTURE OVER 20 FOOT SPAN (DEL-00071-08.910) ALTERNATES" | T , PR |
| | | | | | | | | | | | | | | | | | NO. RFI DESCRIPTION REV. BY DA PIR4 . REVISE FENCE QTYS MPS 04/2 | T <u>E</u>
3/25 SU |
| | | | | | | | | | | | | | | | | | LAST REVISED: P1R4 04/23/20 | 25 SH |