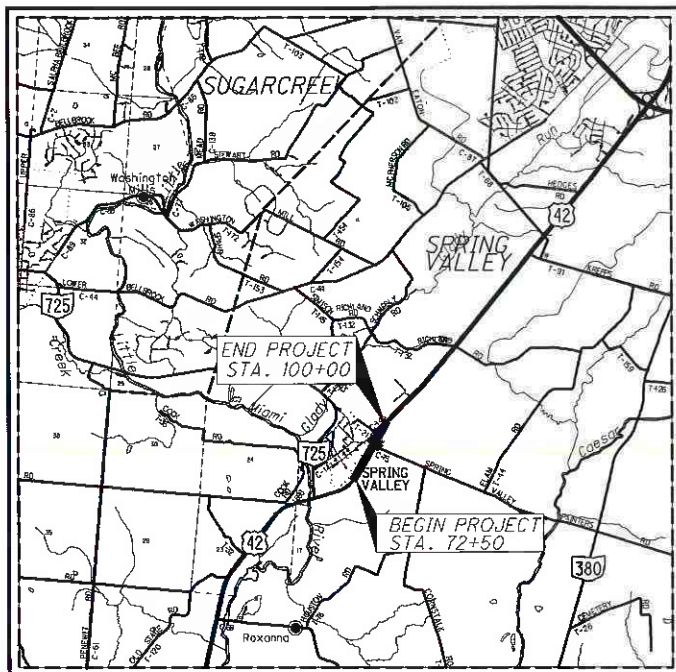


STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

GRE-42-3.15

**SPRING VALLEY TOWNSHIP
GREENE COUNTY**



LOCATION MAP

LATITUDE: 39°36'38.43" LONGITUDE: -84°0'3.91"



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

DESIGN DESIGNATION

	SLM 2.484-3.623	SLM 3.623-6.137
CURRENT ADT (2020)	7,600	9,600
DESIGN YEAR ADT (2040)	9,900	12,500
DESIGN HOURLY VOLUME (2040)	1,000	1,200
DIRECTIONAL DISTRIBUTION	55%	51%
TRUCKS (24 HOUR B&C)	6%	4%
DESIGN SPEED	60 MPH	60 MPH
LEGAL SPEED	55 MPH	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	04 MINOR ARTERIAL (RURAL)	

NHS PROJECT ----- NO

DESIGN EXCEPTIONS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig

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

PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 8 ENGINEERING
505 S. SR 741
LEBANON, OH 45036

SIGNED: *Andrea Henderson*
DATE: 12-2-19

INDEX OF SHEETS:

TITLE SHEET	1
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INTERSECTION DETAILS	60
DRAINAGE DETAILS	61
TRAFFIC CONTROL	62-73
SOIL PROFILES	

PROJECT DESCRIPTION

INSTALL A RESTRICTED CROSSING U-TURN (RCUT) AT THE INTERSECTION OF US ROUTE 42 AND SPRING VALLEY PAINTERSVILLE ROAD.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	5.1 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	5.1 ACRES

2019 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.

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS			
BP-3.1	7/18/14	RM-1.1	7/18/14	TC-41.30	10/18/13	1-2.1	1/15/16	800-2019	7/19/19	WATERWAY PERMIT CONDITIONS-TBD
BP-5.1	1/18/19	RM-3.1	7/19/13	TC-42.20	10/18/13	832		832	10/19/18	
		PCB-91	1/18/13	TC-52.10	10/18/13					
				TC-52.20	7/20/18	821		821	4/20/12	
		MT-95.30	4/19/19	TC-61.10	1/17/14	878		878	1/18/19	
		MT-97.10	4/19/19	TC-61.30	7/19/19	921		921	4/20/12	
HW-2.1	7/20/18	MT-97.12	1/20/17	TC-64.10	7/19/19					
HW-2.2	7/20/18	MT-95.50	7/21/17	TC-65.10	1/17/14					
		MT-99.20	4/19/19	TC-65.11	7/21/17					
MGS-1.1	1/19/18	MT-101.90	7/21/17	TC-71.10	1/19/18					
MGS-2.1	1/19/18			CB-4.2	1/18/13					
MGS-4.2	7/19/13	MT-105.10	7/19/13	DM-1.1	7/21/17					
MGS-4.3	1/18/13			DM-1.2	1/18/13					
				DM-1.3	7/18/14					
				DM-4.3	1/15/16					
				DM-4.4	1/15/16					

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

APPROVED: *Tony K Cepbell*
DATE: 12/3/19 DISTRICT DEPUTY DIRECTOR

APPROVED: _____
DATE: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E180(689)

PID NO. 108640

CONSTRUCTION PROJECT NO. NONE

RAILROAD INVOLVEMENT NONE

GRE-42-3.15

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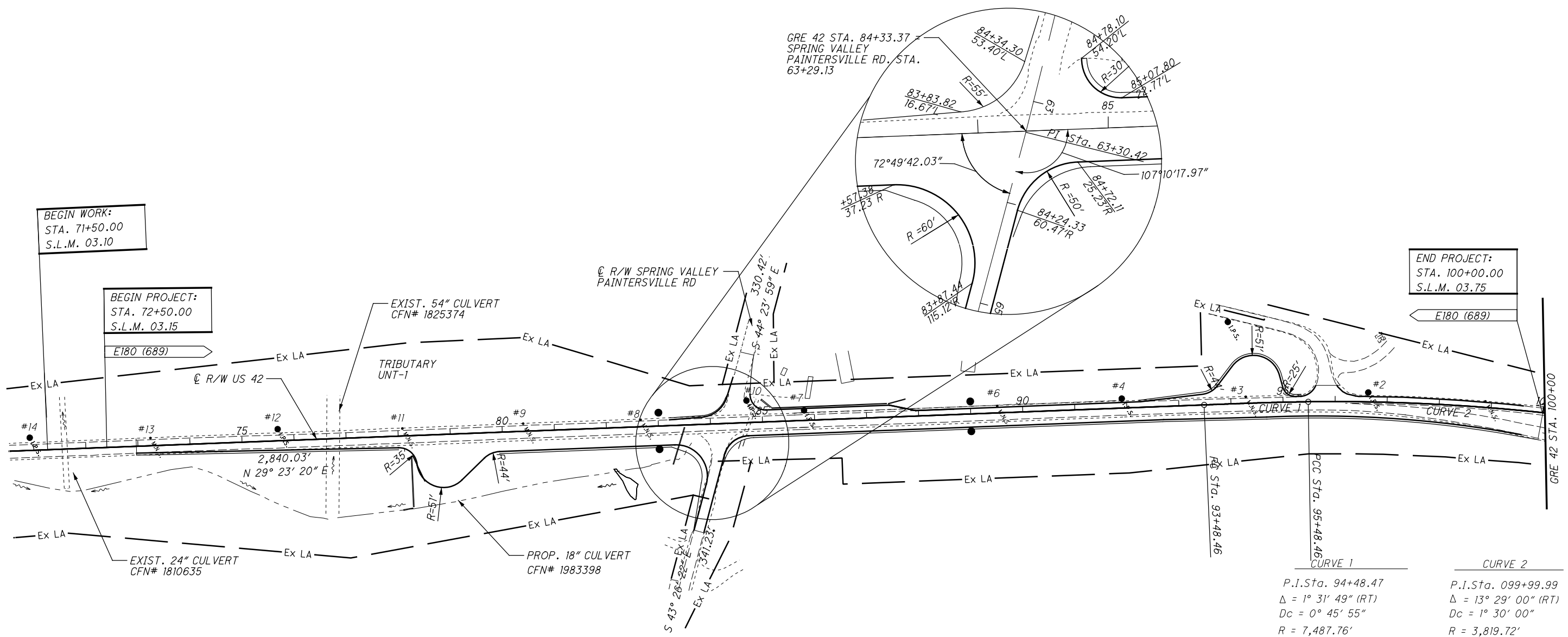


CALCULATED BY: ABH
 CHECKED: JDO
 HORIZONTAL SCALE IN FEET
 1" = 100'

SCHEMATIC PLAN

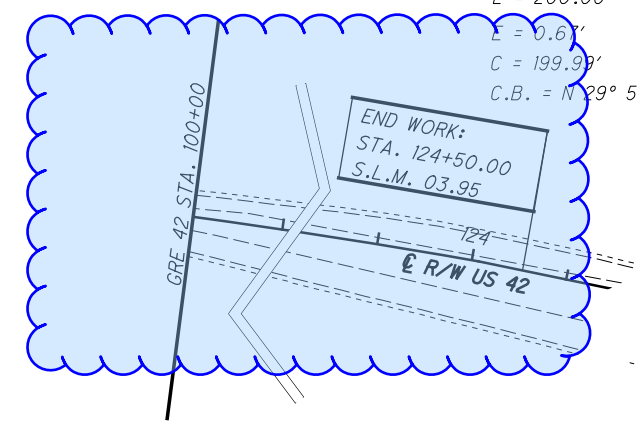
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GRID VALUES

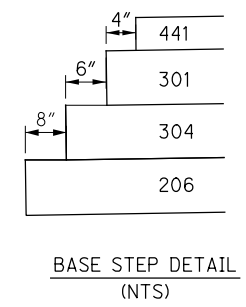
Point	North	East	Elevation	Station	Offset	Feature	
#1	SV4	591411.95	1546356.00	905.17	98+87.98	-11.48	MAGS
#2	SV5	591229.47	1546223.50	904.28	96+63.40	-18.12	IPINS
#3	SV6	591024.81	1546107.30	903.46	94+28.90	-12.54	MAGS
#4	SV7	590820.19	1545985.43	901.25	91+90.86	-18.20	IPINS
#5	SV8	591070.77	1545966.90	913.01	93+99.83	-157.34	IPINS
#6	SV9	590609.11	1545872.36	899.97	89+51.46	-13.13	MAGS
#7	SV10	590289.00	1545685.04	894.27	85+80.62	-19.25	IPINS
#8	SV11	590012.26	1545535.96	889.48	82+66.34	-13.34	MAGS
#9	SV12	589816.44	1545423.98	884.14	80+40.76	-14.81	MAGS
#10	SV13	590204.66	1545610.99	892.43	84+70.80	-42.38	IPINS
#11	SV14	589613.94	1545310.37	878.16	78+08.58	-14.43	MAGS
#12	SV15	589409.48	1545185.91	869.90	75+69.35	-22.54	IPINS
#13	SV16	589192.58	1545072.47	863.82	73+24.69	-14.93	MAGS
#14	SV17	588995.44	1544950.43	855.70	70+93.03	-24.53	IPINS



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LEGEND:

- ① ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
- ② ITEM 407 - NON-TRACKING TACK COAT
- ③ ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
- ④ ITEM 407 - NON-TRACKING TACK COAT
- ⑤ ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22
- ⑥ ITEM 304 - 6" AGGREGATE BASE
- ⑦ ITEM 204 - SUBGRADE COMPACTION
- ⑧ ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS -STA. 72+61.00 TO STA. 84+00.00
- ⑨ ITEM 606 - 4" CONCRETE MEDIAN -STA. 83+32.61 TO STA. 85+33.01*
- ⑩ ITEM 659 - SEEDING AND MULCHING
- ⑪ ITEM 254 - 1.25" PAVEMENT PLANING, ASPHALT CONCRETE
- ⑫ ITEM 659 - TOPSOIL
- ⑬ ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP
- ⑭ ITEM 605 - 6" BASE PIPE UNDERDRAINS (MAXIMUM SPACING 24')
- ⑮ ITEM 611 - 4" CURB, TYPE 4B
- ⑯ ITEM 441 - 0" MIN, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448) (SEE NOTE C)
- A EXISTING ASPHALT PAVEMENT
- B EXISTING GUARDRAIL
- C EXISTING CONCRETE CHANNEL
- A LOON WIDENING -STA. 77+86.52 TO STA. 80+09.66
STA. 92+26.81 TO STA. 95+25.00
- B VARIES: 3.4' - 4' STA. 72+97.00 TO STA. 73+46.86 R
4' - 2.4' STA. 99+61.64 TO STA. 99+96.60 R
3.4' - 4' STA. 92+23.96 TO STA. 93+29.10 L
4' - 2.8' STA. 94+97.22 TO STA. 95+22.04 L
- C VEGETATED BIOFILTER -STA. 90+50 TO STA. 96+65
- D ROCK CHANNEL PROTECTION - STA. 80+75 TO STA. 83+25

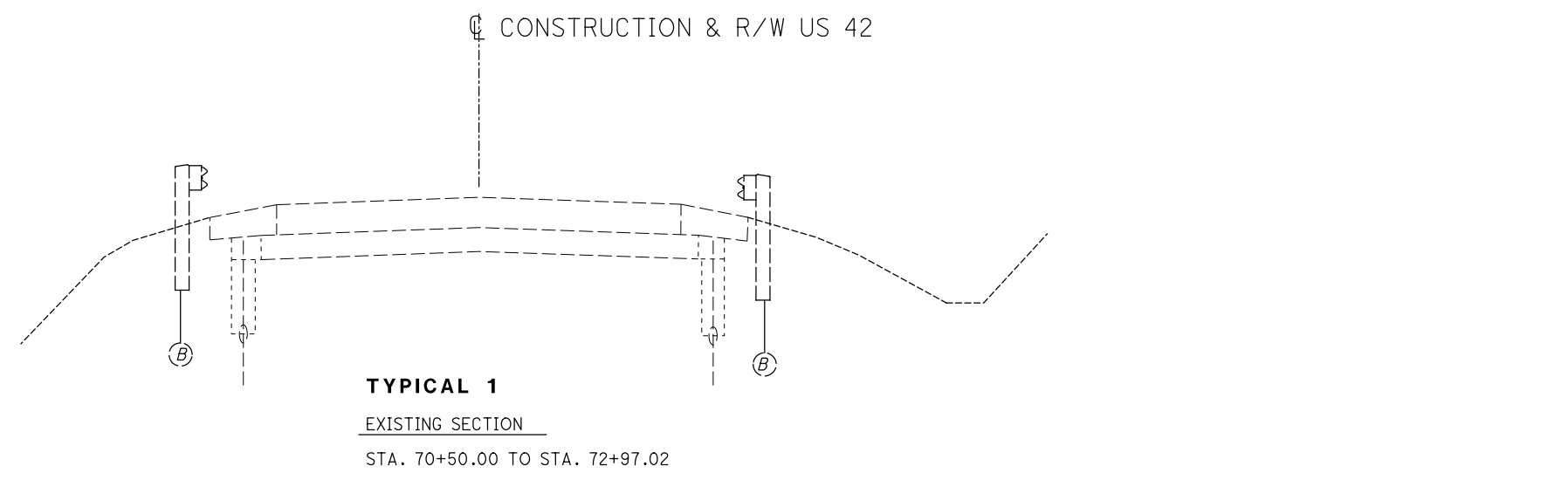
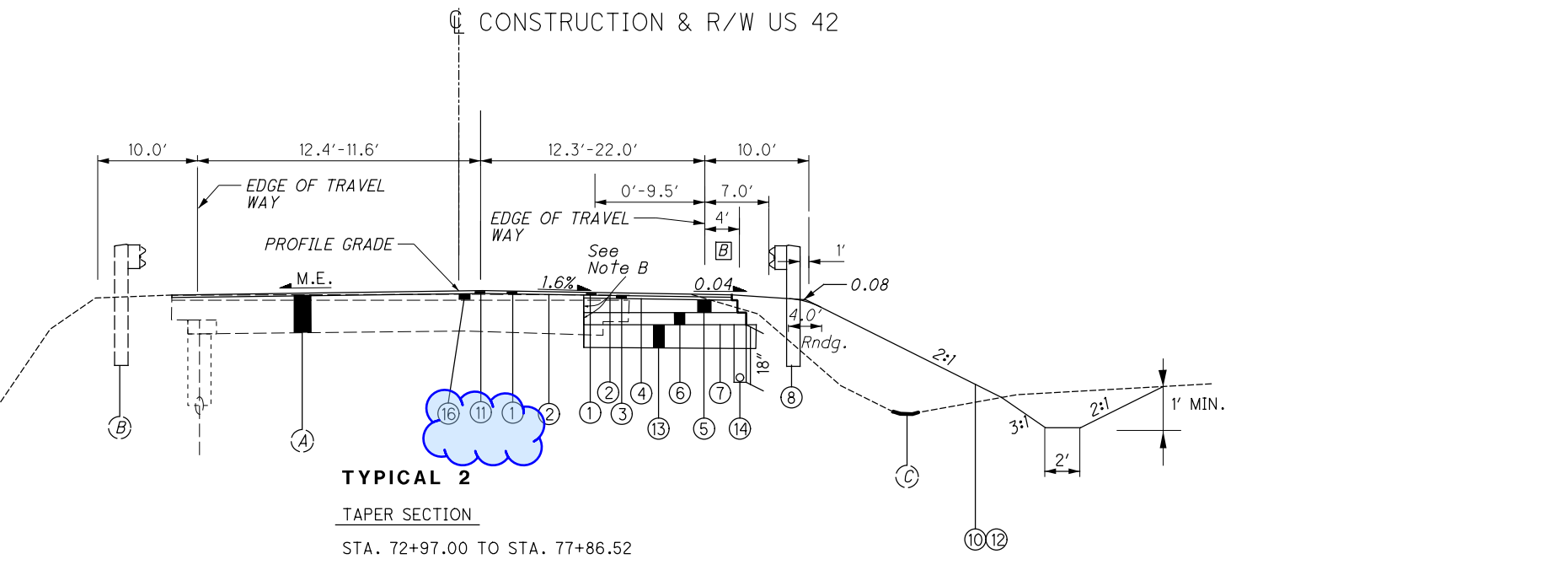
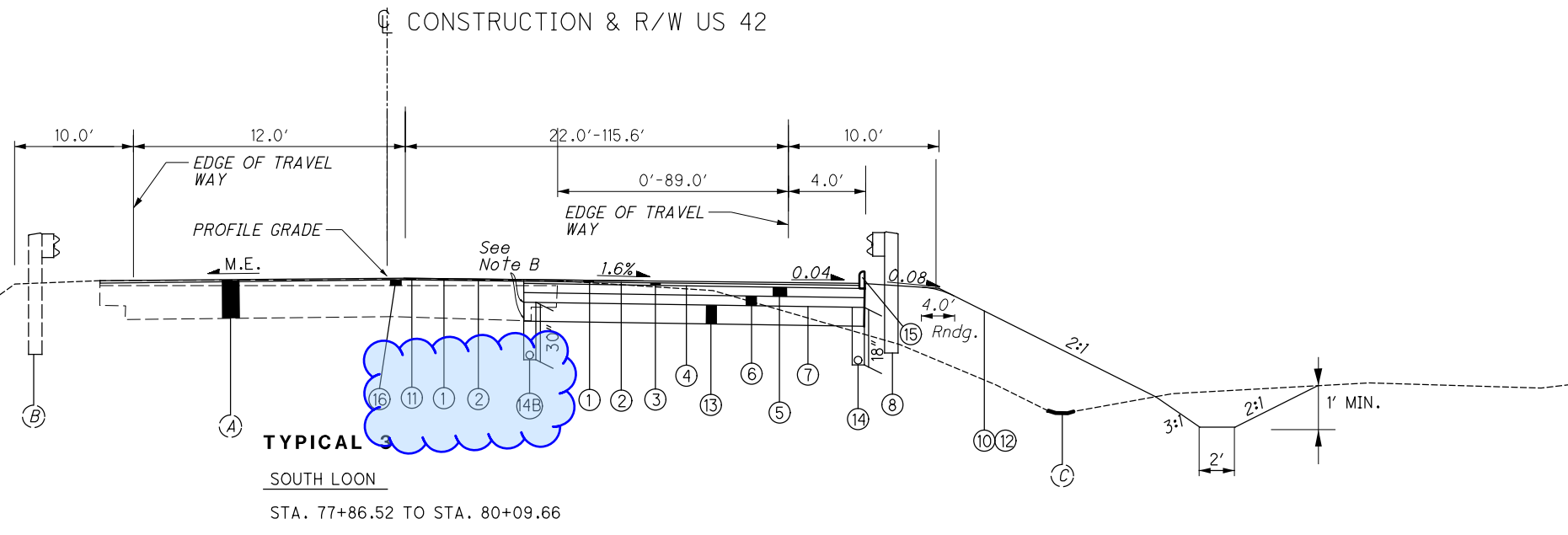


NOTES:

"M.E." MEANS "MATCH EXISTING"

NOTE "B"
THE EXISTING PAVEMENT EDGES SHALL BE SAW CUT TO LOCATE A SOUND EDGE PER SEC. 203.04(e) OF THE CMS. FOR ESTIMATING PURPOSES, PAVEMENT CALCULATIONS INCLUDED IN THE PLAN INDICATE AN AVERAGE WIDTH OF 1 FT OF EXISTING PAVEMENT BEING REPLACED.

NOTE C
ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) IS TO BE USED AS A LEVELING COURSE TO ESTABLISH A 0.016 CROSS SLOPE. ESTIMATED QUANTITIES HAVE BEEN ADDED TO THE GENERAL SUMMARY.

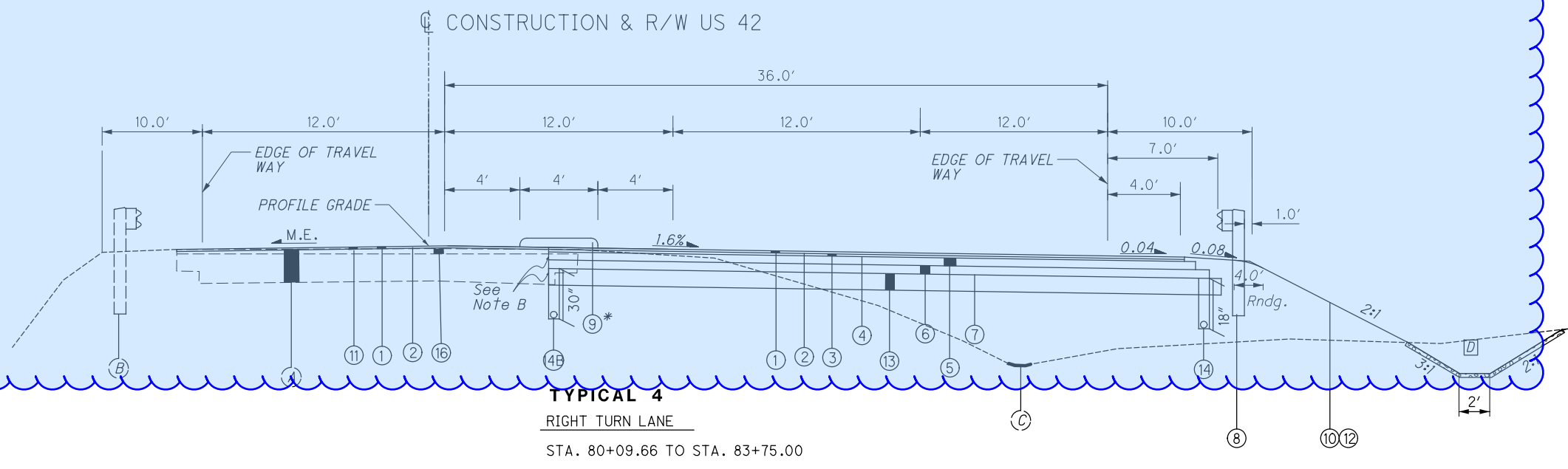
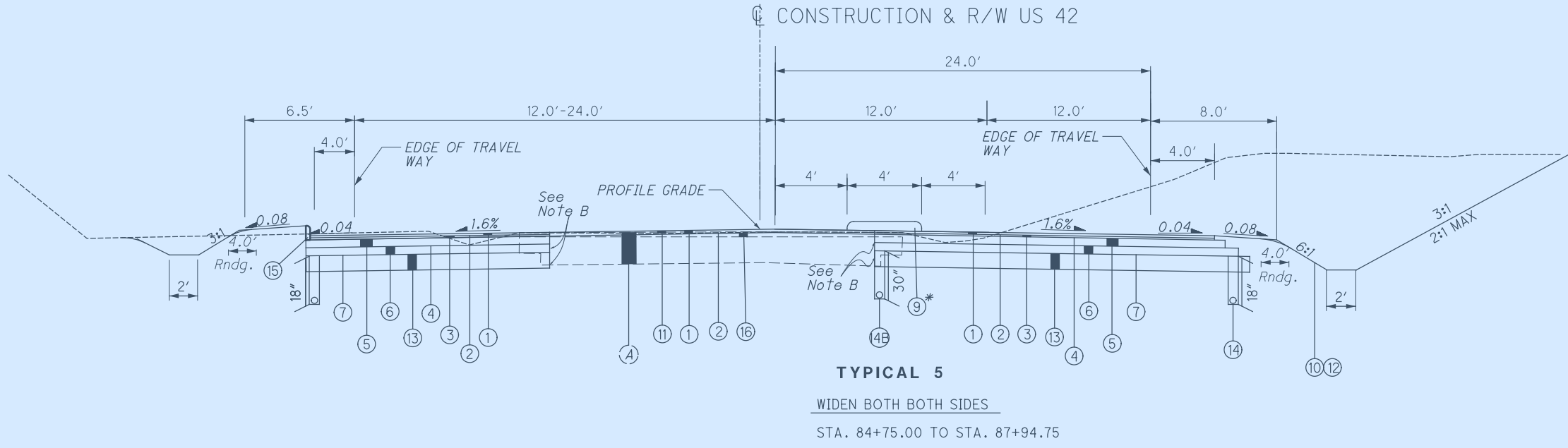
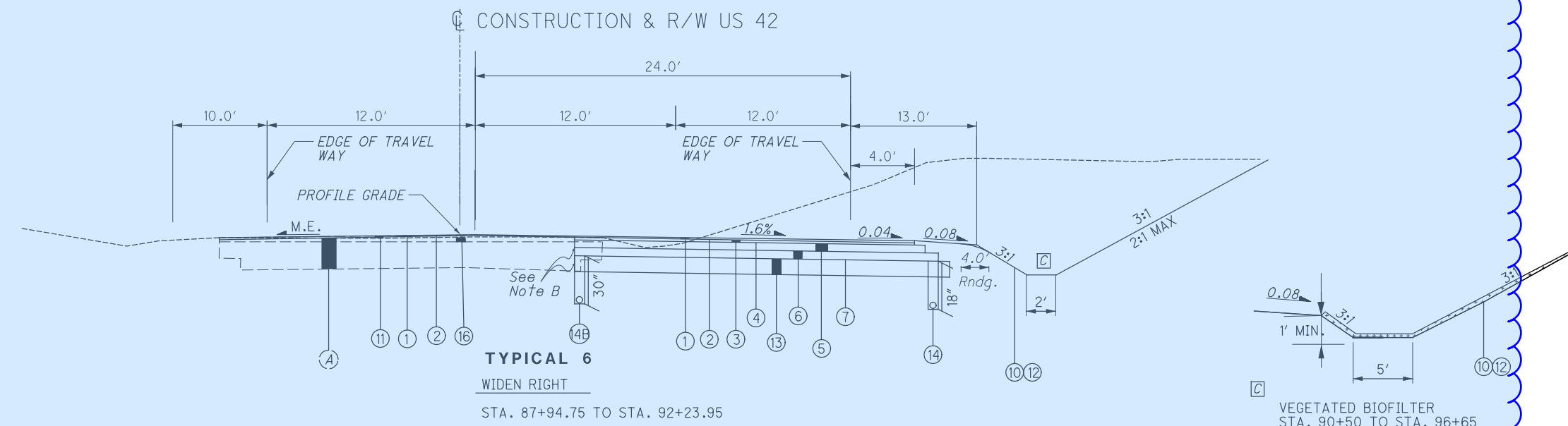


TYPICAL SECTIONS

GRE-42-3.15

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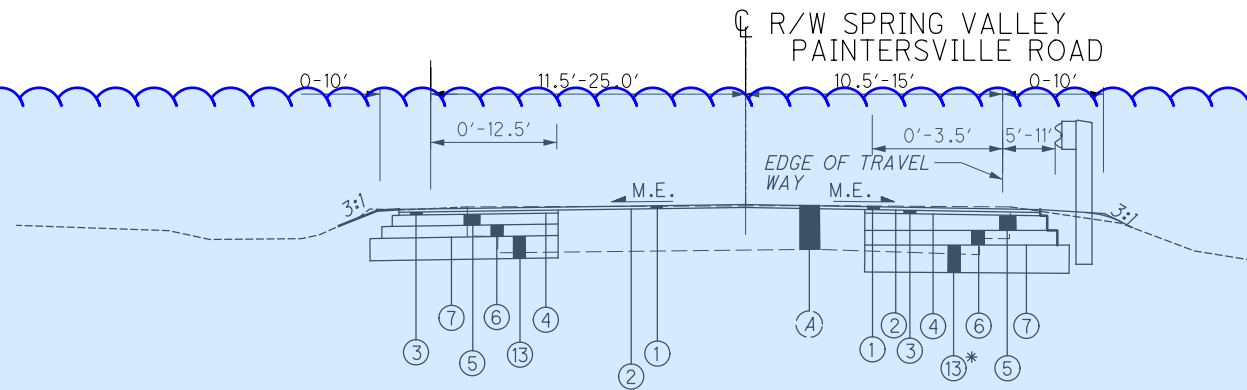
FOR PAVEMENT LEGEND SEE SHEET 3
FOR BASE AND SUBBASE STEP DETAIL, SEE SHEET 3



TYPICAL SECTIONS

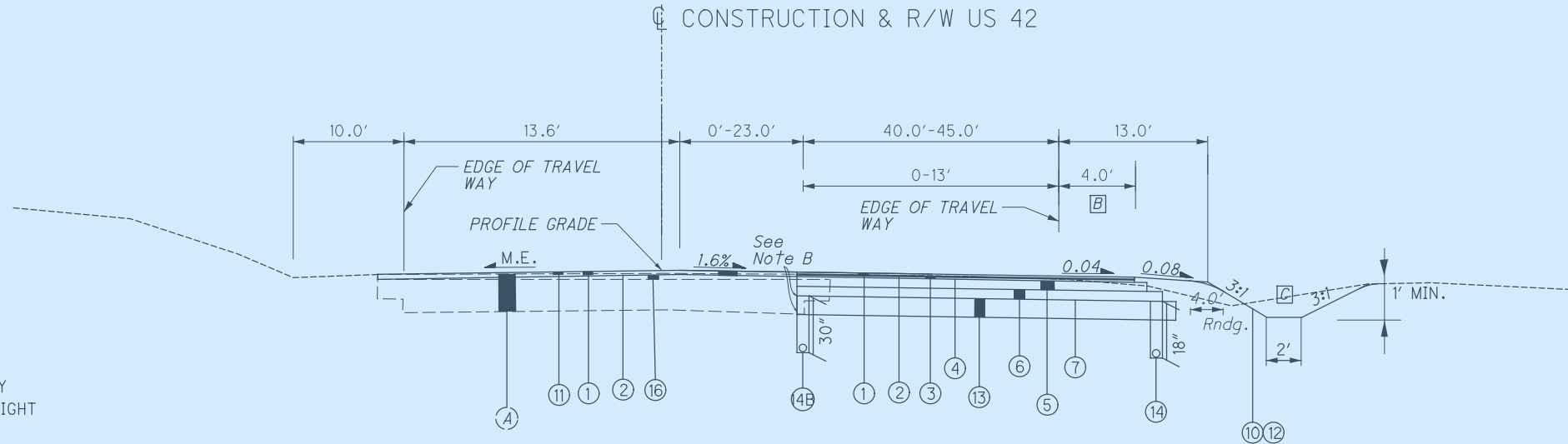
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TYPICAL 9

SPRING VALLEY PAINTERSVILLE ROAD
STA. 61+90.00 TO STA. 65+50.00



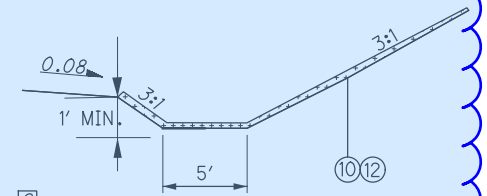
TYPICAL 8

CURVE SECTION
STA. 95+34.61 TO STA. 99+96.60

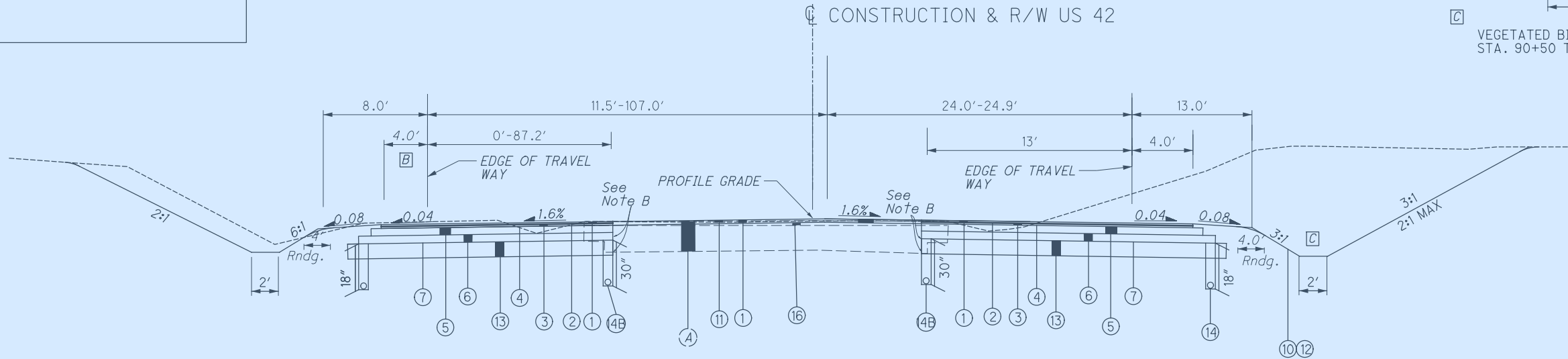
NOTES

* CEMENT STABILIZATION WILL NOT BE NECESSARY ON SPRING VALLEY ROAD STA. 61+90 TO 63+00 RIGHT (SOUTH WEST RADIUS)

FOR PAVEMENT LEGEND SEE SHEET 3
FOR BASE AND SUBBASE STEP DETAIL, SEE SHEET 3



VEGETATED BIOFILTER
STA. 90+50 TO STA. 96+65



TYPICAL 7

NORTH LOON PAVEMENT
STA. 92+23.95 TO STA. 95+34.61

UTILITIES

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

DAYTON POWER & LIGHT COMPANY
1900 DRYDEN ROAD
DAYTON, OHIO 45439
937-331-4521 (WILLIAM GOURLEY
WILLIAM.GOURLEY@AES.COM

VECTREN ENERGY
6500 CLYO ROAD
CENTERVILLE, OHIO 45459
937-312-2539 (JEFF PIKE)
JEFFREY.T.PIKE@CENTERPOINTENERGY.COM
(SEND PLANS TO SHARED EMAIL BOX:
PUBLICPROJECT@CENTERPOINTENERGY.COM

AT&T OHIO
7201 FAR HILLS AVENUE
DAYTON, OHIO 45459
937-296-3588 (HOWARD LAUDERMILK)
HL1596@ATT.COM

CHARTER COMMUNICATIONS/SPECTRUM
3691 TURNER ROAD
DAYTON, OHIO 45415
937-425-8854 (CHRIS BOOKSH)
CHRISTOPHER.BOOKSH@CHARTER.COM

GREENE COUNTY WATER & SEWER
667 DAYTON-XENIA ROAD
XENIA, OHIO 45385
937-562-7462 (MARISSA RAGLIN)
MRAGLIN@CO.GREENE.OH.US

GREENE COUNTY WATER & SEWER
667 DAYTON-XENIA ROAD
XENIA, OHIO 45385
937-562-7462 (KEVIN MOYER)
KMOYER@CO.GREENE.OH.US

GREENE COUNTY ENGINEER'S OFFICE
615 DAYTON-XENIA ROAD
XENIA, OHIO 45385
937-562-7500 (STEPHANIE ANN GOFF)
SGOFF@CO.GREENE.OH.US

VILLAGE OF SPRING VALLEY/SPRING VALLEY VILLAGE COUNCIL
7 W. MAIN STREET
SPRING VALLEY, OHIO 45370
937-367-4368 (BRETT BONECUTTER, ADMINSTRATOR)
BBONESV@GMAIL.COM

WORK LIMITS

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

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

ROUNDING

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

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET __2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO SOUTH ZONE (SPC 3402)
THE COMBINED SCALE FACTOR IS 1.0

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

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

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENTS IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWING RM-1.1 AND AT THE LOCATIONS SHOWN BELOW.

STA. 83+00 26' L
STA. 83+00 44' R
STA. 89+00 24' L
STA 89+00 33' R

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

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

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

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

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING ----3 HOUR.

ITEM 878 -INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS

THIS ITEM SHALL INCLUDE GRE-US42 LOCATIONS. A LUMP SUM QUANTITIY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR ALL WORK AS DESCRIBED IN SUPPLEMENTAL SPECIFICATION 878.

ITEM 878 INSPECTION AND TESTING OF UNBOUND MATERIALS LUMP

ITEM 621 - RAISED PAVEMENT MARKERS (RPM)

INSTALL RAISED PAVEMENT MARKERS ACCORDING TO SCD TC-65.10 AND TC-65.11.

SIGN, MISC: REMOVAL OF SOLAR POWERED LED SIGNS FOR SALVAGE, EACH

632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION

REQUIRED UNDER THE PROVISIONS OF 203.05. TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, CONTROLLER, ETC., SHALL BE REMOVED IN ACCORDANCE WITH C&MS 632.26 AND AS INDICATED ON THE PLANS. REMOVED ITEMS SHALL BE REUSED AS PART OF A NEW INSTALLATION ON THE PROJECT OR STORED ON THE PROJECT FOR SALVAGE BY (DOB TRAFFIC DEPARTMENT) IN ACCORDANCE WITH THE LISTING GIVEN HEREIN.

NO ITEMS WILL BE REUSED

ITEMS TO BE STORED INCLUDE SIGNAL HEADS AND FLASHER CABINET

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

ODOT DISTRICT 08, ATTN: JIM JUDD
513-933-6692

505 SOUTH STATE ROUTE 741
LEBANON, OHIO 45036

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

CLEARING AND GRUBBING

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

BAT HABITAT REMOVAL PLAN

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. THE CONTRACTOR SHALL NOT REMOVE TREES UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THE CONTRACTOR SHALL DEMARCAT E CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

SEEDING AND MULCHING

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

659, TOPSOIL	170 CU. YD.
659, SEEDING AND MULCHING	1533 SQ. YD.
659, COMMERCIAL FERTILIZER	.21 TON
659, LIME	.32 ACRES
659, WATER	8.3 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

BENCHING OF FOUNDATION SLOPES

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

EMBANKMENT OVER EXISTING DITCHES

WHERE NEW EMBANKMENT IS TO BE PLACED OVER EXISTING DITCHES, ALL SOFT AND WET SOILS SHALL BE REMOVED AS SHOWN ON THE PLAN DETAIL AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS SHOWN ON THE PLANS.

203, EMBANKMENT.....	428 CY
203, EXCAVATION.....	389 CY

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CALCULATED
ABH
CHECKED
JDO

GENERAL NOTES

GRE - 42 - 3.15

6
73

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(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 AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. EACH VBF WILL INCLUDE ITEM 670, DITCH EROSION PROTECTION. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLANS.

VEGETATED BIOFILTER
STA. 92+50 TO STA. 96+65

ITEM 659 TOPSOIL = 33.6 CY
ITEM 670 DITCH EROSION PROTECTION = 404 SY

FRICKE AIRPORT
OWNER: DONALD E. FRICKE
2408 US RT 42
SPRING VALLEY, OH 45370
PHONE 937-862-4560
MANAGER: DONALD E. FRICKE
2408 US RT 42
SPRING VALLEY, OH 45370
PHONE 937-862-4560

POTENTIALLY IMPACTED AIRPORTS	AIRPORT ELEVATION "A"	PROJECT ELEVATION "B" + 25 FEET (CONTRLLING CRITERIA)	DISTANCE BETWEEN AIRPORT & PROJECT "C"	NOTIFICATION SLOPE X:1	USE TYPE	AMOUNT OF CLEARANCE ABOVE NOTIFICATION SLOPE "Z"
FRICKE AIRPORT	905 FT	906 + 40 = 910 FT	1,854 FT	50:1	PRIVATE	-1.92 FT

ASBESTOS NOTIFICATION

UTILITY REVIEWS FOR THIS LOCATION INDICATE THE PRESENCE OF 48" WATER LINE BURIED AT AN ASSUMED DEPTH OF 3' BELOW THE DITCH LINE. THE CONTRACTOR SHALL COMPLETE THE 10 DAY OEPA NOTIFICATION OR DEMOLITION FORM AND SUBMIT IT ELECTRONICALLY TO <https://epa.ohio.gov/dapc/atw/asbestos> AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION.

THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FORM TO THE ENGINEER AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION. THE FORM SHALL INCLUDE: 1) THE CONTRACTORS NAME AND ADDRESS, 2) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REMOVAL AND 3) A DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHOD(S) TO BE USED.

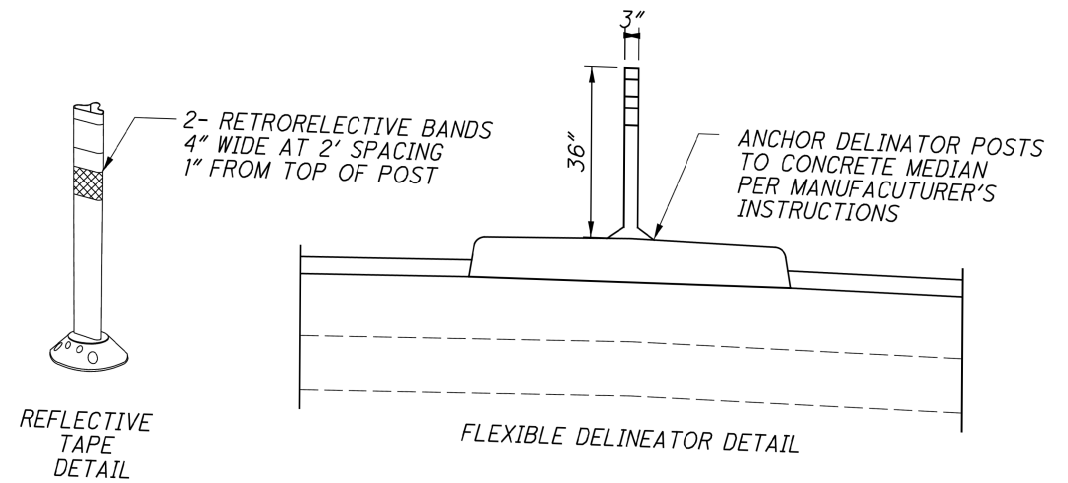
DUE CARE WILL BE TAKEN TO NOT IMPACT THIS WATERLINE. SHOULD THE WATERLINE BECOME EXPOSED OR IMPACTED THE CONTRACTOR SHALL STOP WORK AND CONTACT SUZANNE ENDERS AT SUZANNE.ENDERS@DOT.OHIO.GOV (513-933-6286), AS WELL AS THE APPROPRIATE OEPA CONTACT LISTED AT THE ABOVE WEB ADDRESS.

SHOULD CONSTRUCTION REQUIRE THE REMOVAL AND DISPOSAL OF THIS MATERIAL, THE CONTRACTOR SHALL ENSURE THAT ASBESTOS CONTAINING MATERIALS DO NOT BECOME FRIABLE (BROKEN-UP OR DISPERSED) AND THAT NO VISIBLE FIBER EMISSIONS WILL OCCUR. ADDITIONALLY, THE REMOVAL AND DISPOSAL OF THE ASBESTOS CONTAINING MATERIAL SHALL COMPLY WITH CHAPTER 3745-20 OF THE OHIO ADMINISTRATIVE CODE, THE NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP) AND APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS (29 CFR 1926.1101).

BASIS FOR PAYMENT THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

INSTREAM WORK RESTRICTION

THE CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN THE JURISDICTIONAL BOUNDARIES OF ANY WATERWAY, INCLUDING WETLANDS, UNTIL ODOT OBTAINS THE NECESSARY WATERWAY PERMIT. THIS INCLUDES THE PLACEMENT OF ANY TEMPORARY OR PERMANENT FILLS.



ITEM 620 DELINEATOR, MISC. SURFACE MOUNTED-YELLOW

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CALCULATED
ABH
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JDO

GENERAL NOTES

GRE - 42 - 3.15

7
73

SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	ABH	CHECKED	JDO
2	4	6	8	14	15	59	62	64	01/SAF/O T		EXT	TOTAL								
		LS							LS	201	11000	LS			ROADWAY					
									16,988	202	23010	16,988	SY		CLEARING AND GRUBBING					
									1,325	202	38000	1,325	FT		PAVEMENT REMOVED, ASPHALT					
									1	202	20010	1	EACH		GUARDRAIL REMOVED					
									222	202	32700	222	SY		HEADWALL REMOVED					
									18,507	203	10000	18,507	CY		GUTTER REMOVED					
									18,483	203	20000	18,483	CY		EXCAVATION					
									1,300	204	13000	1,300	CY		EMBANKMENT					
		3							3	204	45000	3	HOUR		EXCAVATION OF SUBGRADE					
									386	206	10500	386	TON		PROOF ROLLING					
									6,770	206	11000	6,770	SY		CEMENT					
									6,770	206	15010	6,770	SY		CURING COAT					
									2	206	30000	2	EACH		CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS					
					2				1,425	606	15100	1,425	FT		ANCHOR ASSEMBLY, TYPE T					
									89	609	70000	89	SY		GUARDRAIL, TYPE MGS WITH LONG POSTS					
		4							4	623	40500	4	EACH		4" CONCRETE MEDIAN					
									LS	878	25000	LS			REFERENCE MONUMENT, TYPE A					6
															INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS					
															EROSION CONTROL					
		216							216	659	00300	216	CY		TOPSOIL					
		1,533							1,533	659	10000	1,533	SY		SEEDING AND MULCHING					
		0.21							0.21	659	20000	0.21	TON		COMMERCIAL FERTILIZER					
		0.32							0.32	659	31000	0.32	ACRE		LIME					
		8							8	659	35000	8	MGAL		WATER					
									300	601	32000	300	CY		ROCK CHANNEL PROTECTION, TYPE C WITH FILTER					
					4.4				4.4	601	10990	4.4	SY		RIPRAP, TYPE C					
									5	601	11000	5	SY		RIPRAP, TYPE D					
		555							555	670	10700	555	SY		DITCH EROSION PROTECTION					
									48,300	832	30000	48,300	EACH		EROSION CONTROL					
									LS	832	15000	LS			STORM WATER POLLUTION PREVENTION PLAN					
									LS	832	15002	LS			STORM WATER POLLUTION PREVENTION INSPECTIONS					
									LS	832	15010	LS			STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE					
															DRAINAGE					
									LS	503	11100	LS			COFFERDAMS AND EXCAVATION BRACING					
		0.6							0.6	602	20000	0.6	CY		CONCRETE MASONRY					
		4,122							4,122	605	98000	4,122	FT		UNDERDRAINS, MISC., BASE PIPE					3
		2,358							2,358	605	11100	2,358	FT		6" SHALLOW PIPE UNDERDRAINS					
		197							197	611	00510	197	FT		6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS					
									11	611	15200	11	FT		30" CONDUIT, TYPE A, 707.07 (AL COATED), 707.04 (POLYMERIC)					
									1.3	601	21050	1.3	SY		TIED CONCRETE BLOCK MAT, TYPE 1					
									1	611	99094	1	EACH		INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B					
									4	611	98180	4	EACH		CATCH BASIN, NO. 3A					
									1	611	98230	1	EACH		CATCH BASIN, NO. 4					
									1	611	99574	1	EACH		MANHOLE, NO. 3					
									327	611	04400	327	FT		12" CONDUIT, TYPE B					
									343	611	07600	343	FT		18" CONDUIT, TYPE C					
															PAVEMENT					
									9,517	254	01000	9,517	SY		PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"					
									3,462	255	20000	3,462	FT		FULL DEPTH PAVEMENT SAWING					
									1,128	301	46000	1,128	CY		ASPHALT CONCRETE BASE, PG64-22					
									1,128	304	20000	1,128	CY		AGGREGATE BASE					
									1,756	407	20000	1,756	GAL		NON-TRACKING TACK COAT					
									566	441	50000	566	CY		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22					
									329	441	50300	329	CY		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)					
									50	441	50200	50	CY		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)					

GENERAL SUMMARY

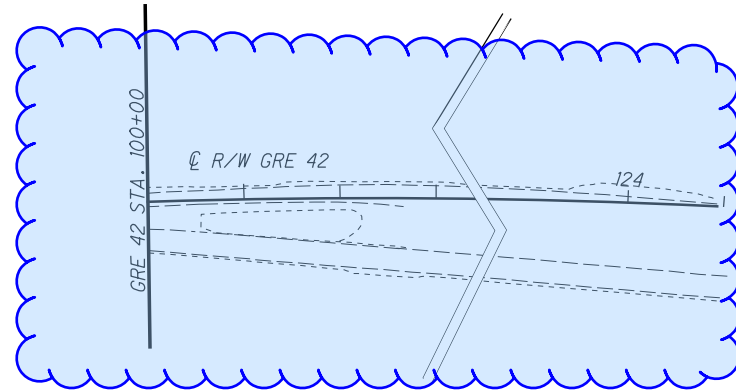
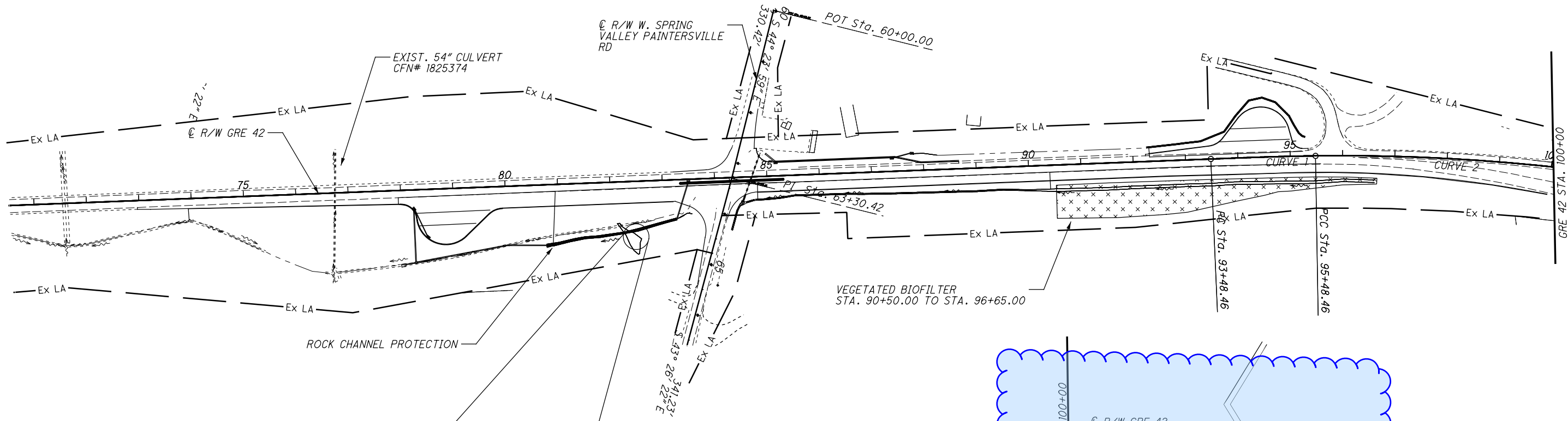
GRE - 42 - 3.15

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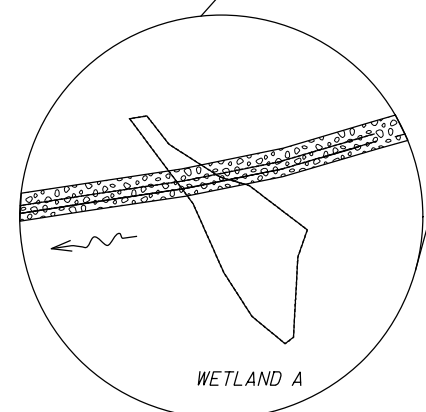
SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
2	4	6	8	14	15	59	62	64	01/SAF/O T		EXT	TOTAL				
															TRAFFIC CONTROL	
							151		151	621	00100	151	EACH	RRM		62
							1,300		1,300	642	30000	1,300	FT	REMOVAL OF PAVEMENT MARKING		62
							35		35	621	54000	35	EACH	RAISED PAVEMENT MARKER REMOVED		62
							1.08		1.08	644	00104	1.08	MILE	EDGE LINE, 6"		62
							0.07		0.07	644	00204	0.07	MILE	LANE LINE, 6"		62
							30		30	620	70000	30	EACH	DELINEATOR, MISC.:TYPE C, WHITE		62
									10	620	70000	10	EACH	DELINEATOR, MISC.:SURFACE MOUNTED, YELLOW		6
							1		1	644	00300	1	MILE	CENTER LINE		62
							1,250		1,250	644	00400	1,250	FT	CHANNELIZING LINE, 8"		62
							32		32	644	00500	32	FT	STOP LINE		62
							18		18	644	01300	18	EACH	LANE ARROW		62
							817		817	644	00700	817	FT	TRANSVERSE/DIAGONAL LINE		62
									232	630	03100	232	FT	GROUND MOUNTED SUPPORT, NO. 3 POST		64
							274		274	630	80100	274	SF	SIGN, FLAT SHEET		64
							4		4	630	08600	4	EACH	SIGN POST REFLECTOR		64
							16		16	630	84900	16	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		64
							6		6	630	85100	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION		64
							10		10	630	86002	10	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		64
									13	626	00110	13	EACH	BARRIER REFLECTOR, TYPE 2, WHITE/WHITE		
															TRAFFIC SIGNALS	
									1	632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION		6
															MAINTENANCE OF TRAFFIC	
							30		30	614	11110	30	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
							0.7		0.7	614	21550	0.7	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT		
							0.7		0.7	614	22350	0.7	MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT		
							32		32	614	26610	32	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT		
															INCIDENTALS	
									LS	614	11000	LS		MAINTAINING TRAFFIC		
									LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		
									LS	624	10000	LS		MOBILIZATION		

PROJECT DATA	
TOTAL AREA (RIGHT OF WAY)-----1.1 AC	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE-----0.90
PROJECT EARTH DISTURBED AREA-----5.1 AC	RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE-----0.90
ESTIMATED CONTRACTOR EARTH DISTURBED AREA-----0 AC	POST CONSTRUCTION BMP: VEGETATED BIOFILTERS WERE PROVIDED TO MEET NPDES POST-CONSTRUCTION REQUIREMENTS. SEE CROSS SECTION SHEETS FOR LOCATIONS.
NOTICE OF INTENT EARTH DISTURBED AREA-----5.1 AC	
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE-----2.25 AC	IMMEDIATE RECEIVING WATERS---TRIB. TO LITTLE MIAMI RIVER
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION SITE-----3.67 AC	SUBSEQUENT RECEIVING WATER



LEGEND

	CATCH BASIN, No. 3A
	VEGETATED BIOFILTER
	ROCK CHANNEL PROTECTION

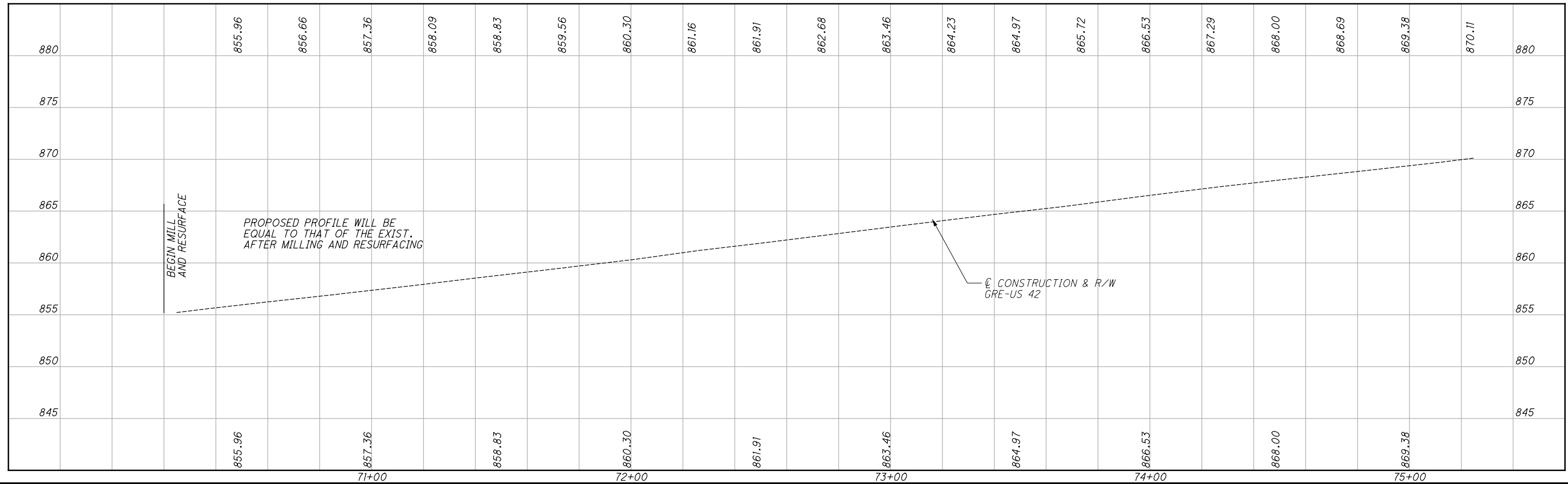
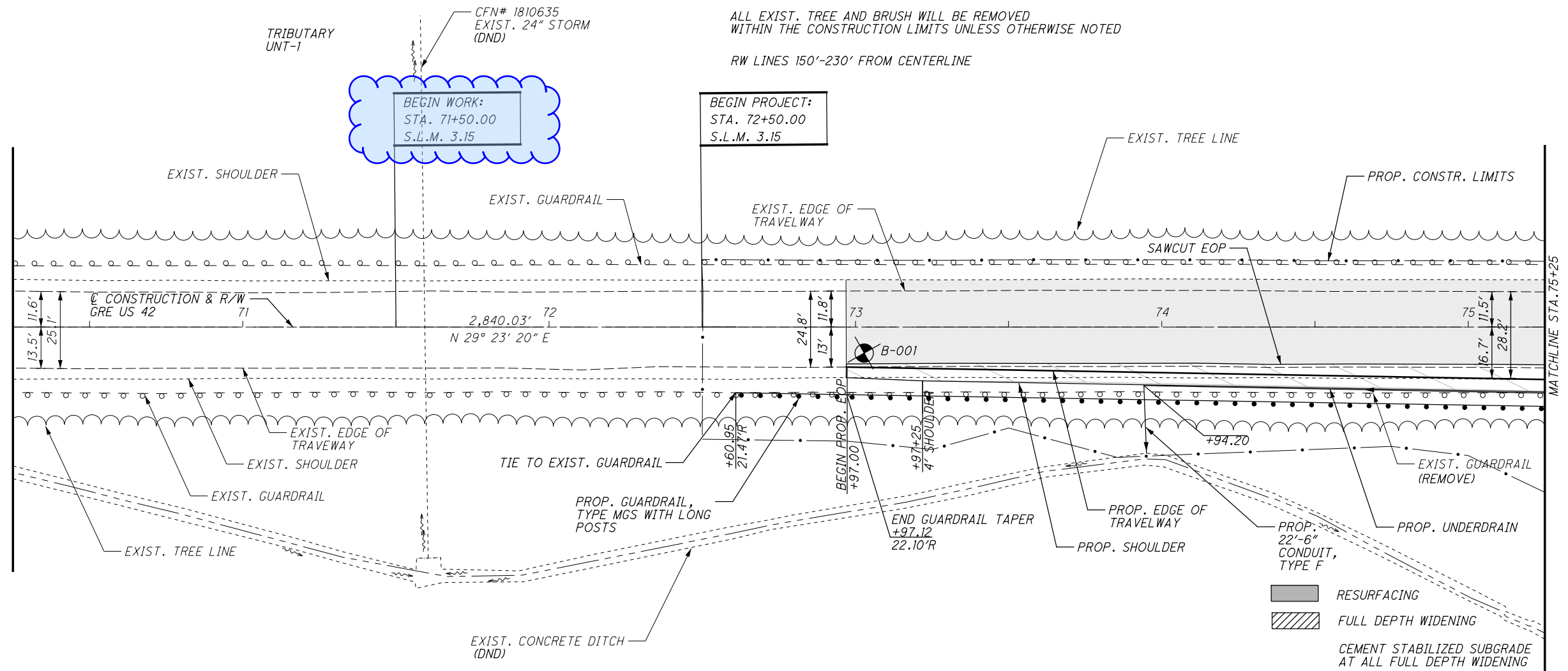


BMP TYPE	LATITUDE/LONGITUDE				BMP (WIDTH) (FEET)	EDA TREATMENT CREDIT (ACRES)
	BEGIN	END	BEGIN	END		
VEGETATED BIOFILTER 1	39.6121510	-83.9999800	39.6136180	-83.9988880	5	1.1
					TREATMENT PROVIDED	1.1
					TREATMENT REQUIRED	1.02

PROJECT DESCRIPTION
INSTALL A RESTRICTED CROSSING U-TURN (RCUT) AT THE INTERSECTION OF US ROUTE 42 AND W SPRING VALLEY PAINTERSVILLE ROAD.

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NOTE:
 ALL EXIST. TREE AND BRUSH WILL BE REMOVED
 WITHIN THE CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED
 RW LINES 150'-230' FROM CENTERLINE

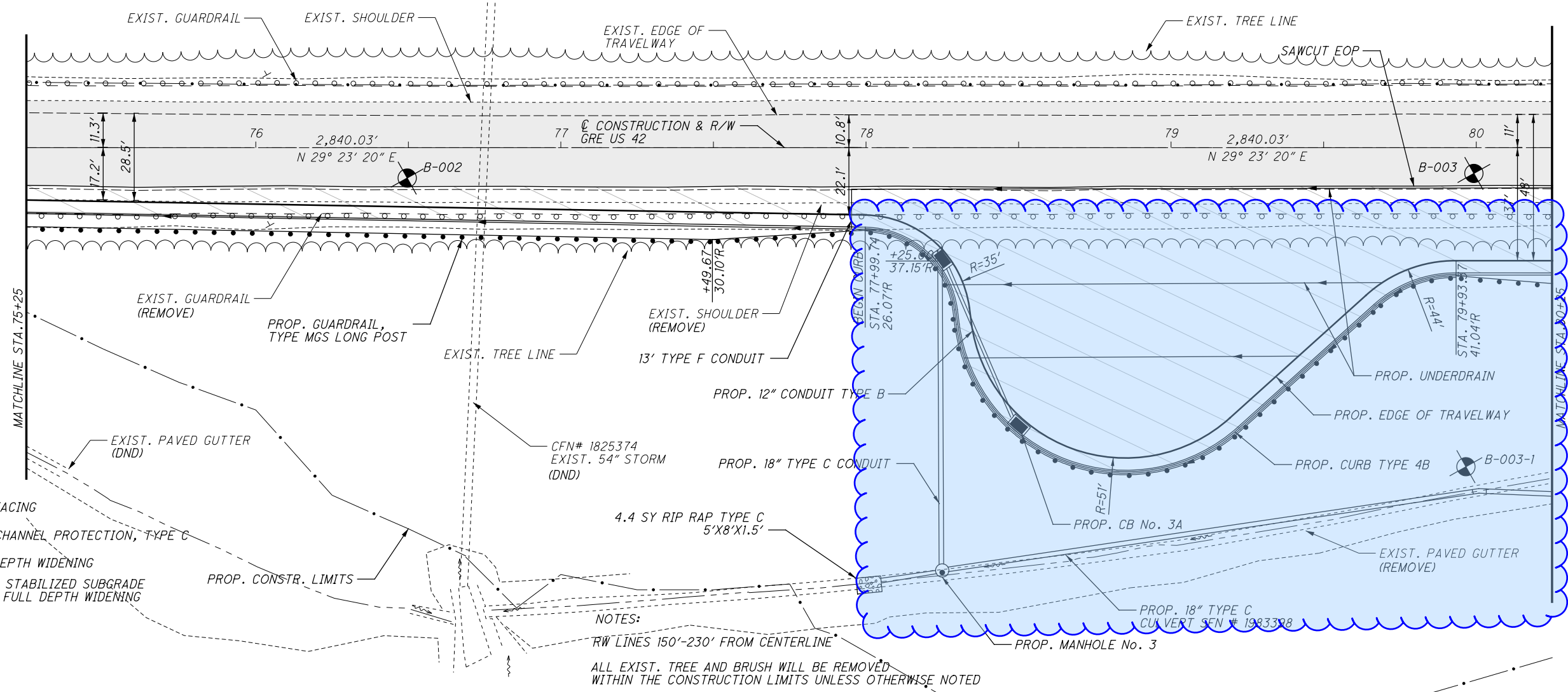


CALCULATED ABH CHECKED JDO

PLAN AND PROFILE
STA. 70+00 TO STA. 75+25

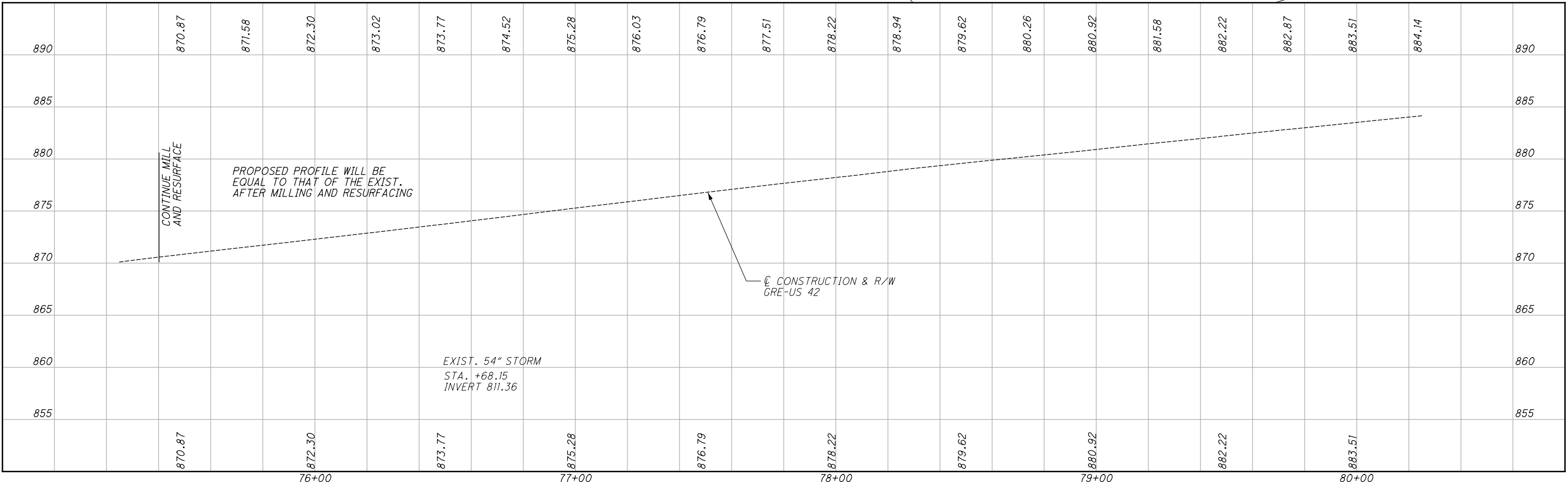
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- RESURFACING
- ROCK CHANNEL PROTECTION, TYPE C
- FULL DEPTH WIDENING
CEMENT STABILIZED SUBGRADE
AT ALL FULL DEPTH WIDENING





NOTES:
 RW LINES 150'-230' FROM CENTERLINE
 ALL EXIST. TREE AND BRUSH WILL BE REMOVED
 WITHIN THE CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED

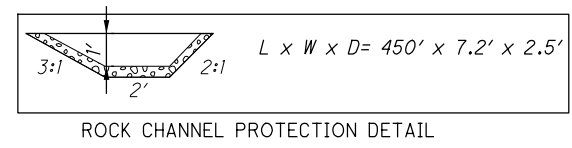


CALCULATED
 ABH
 CHECKED
 JDO

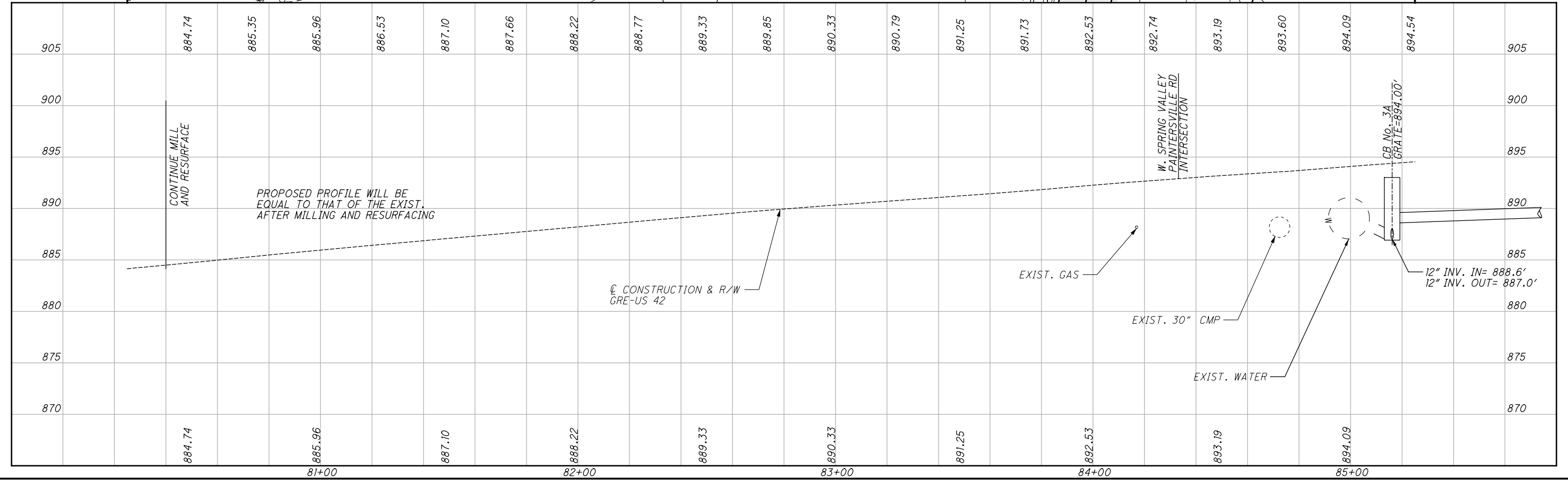
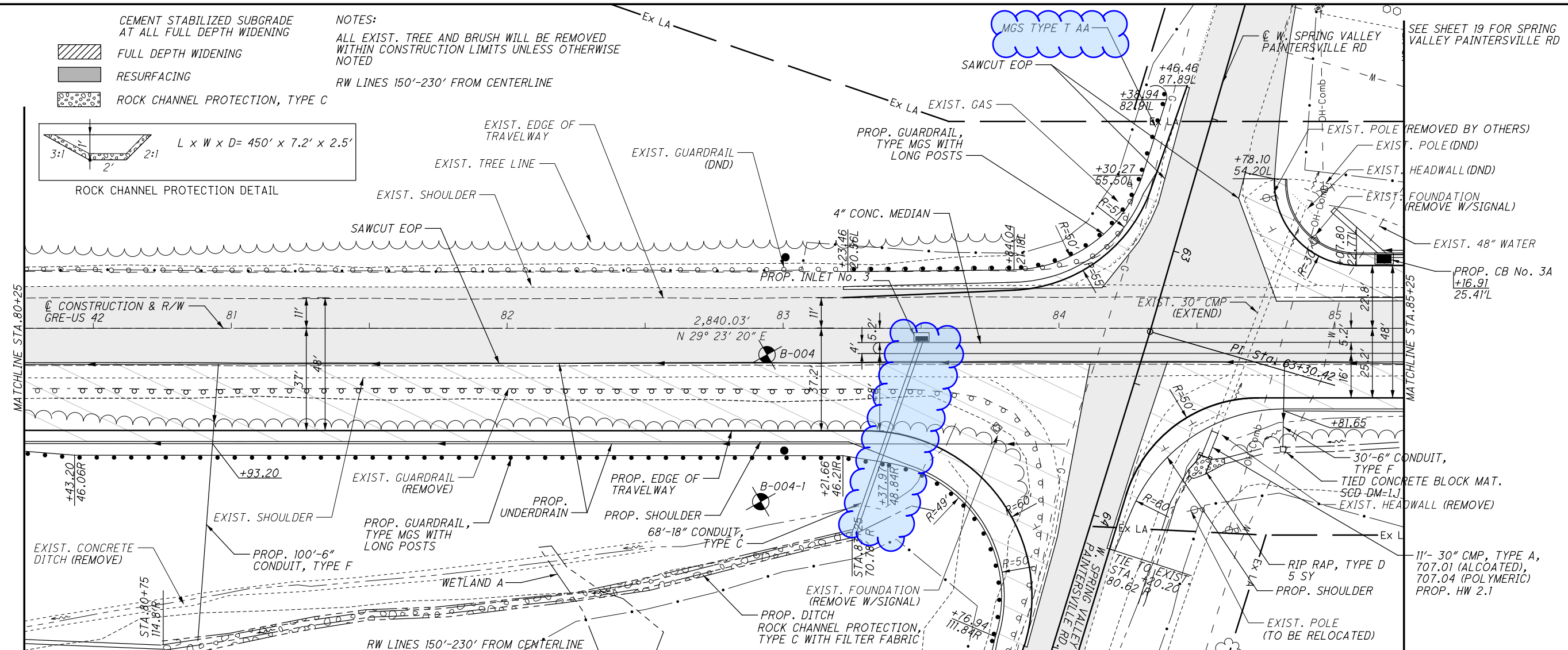
PLAN AND PROFILE
STA. 75+25 TO STA. 80+25

GRE-42-3.15

-  CEMENT STABILIZED SUBGRADE AT ALL FULL DEPTH WIDENING
-  FULL DEPTH WIDENING
-  RESURFACING
-  ROCK CHANNEL PROTECTION, TYPE C



NOTES:
ALL EXIST. TREE AND BRUSH WILL BE REMOVED WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED
RW LINES 150'-230' FROM CENTERLINE



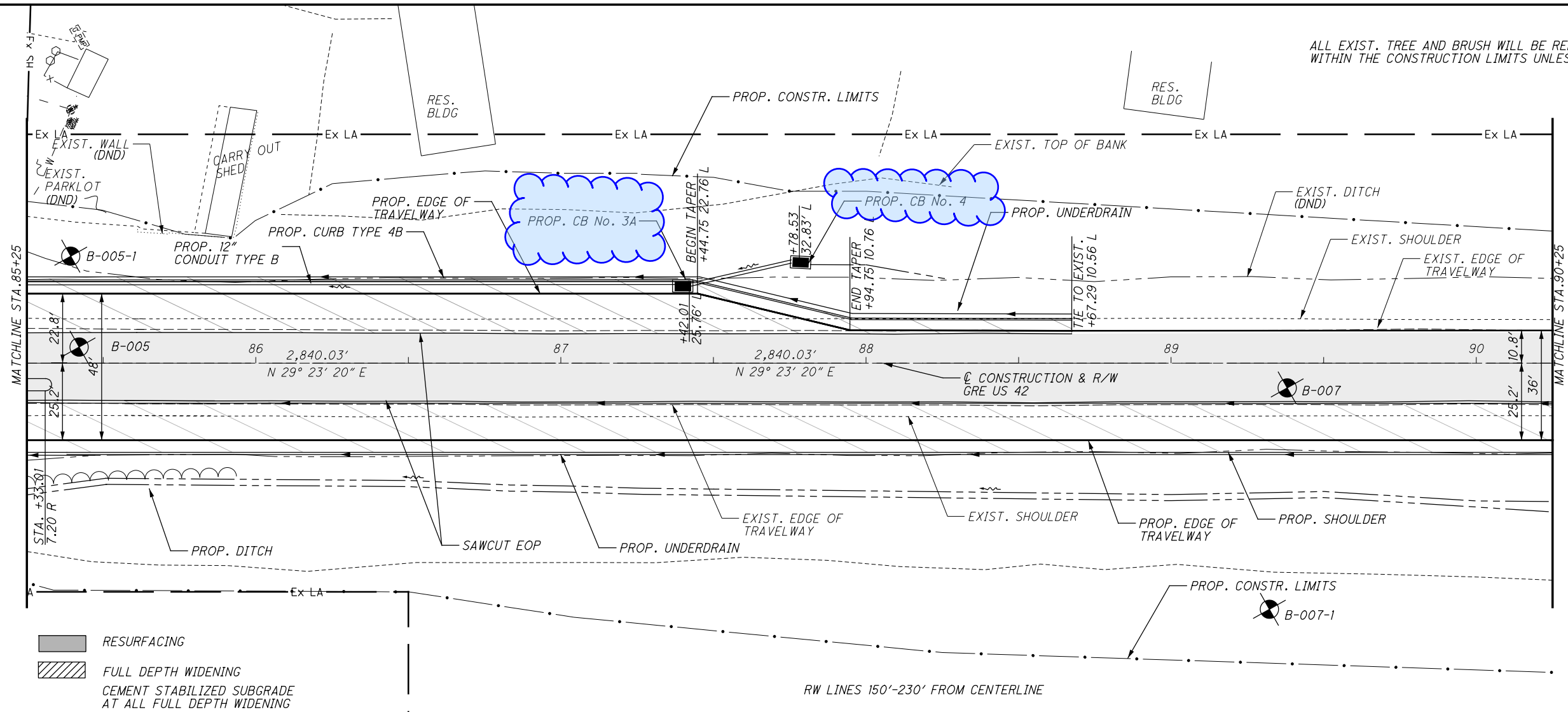
CALCULATED
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PLAN AND PROFILE
STA. 80+25 TO STA. 85+25

GRE-42-3.15

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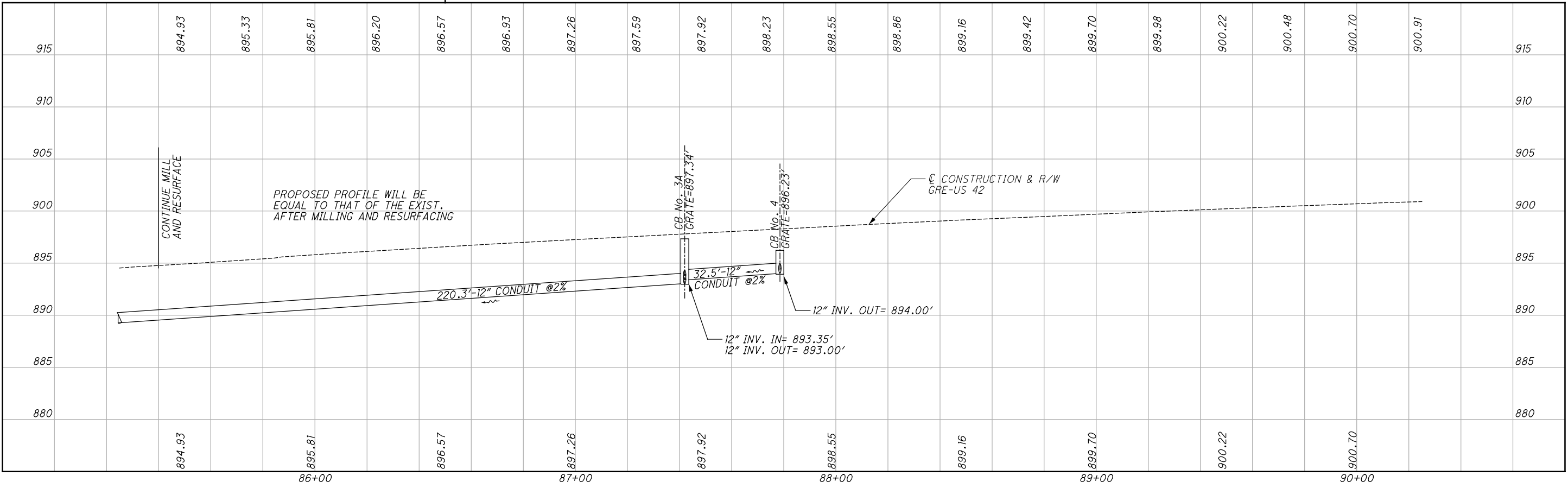


ALL EXIST. TREE AND BRUSH WILL BE REMOVED WITHIN THE CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED








- RESURFACING
- FULL DEPTH WIDENING
- CEMENT STABILIZED SUBGRADE AT ALL FULL DEPTH WIDENING

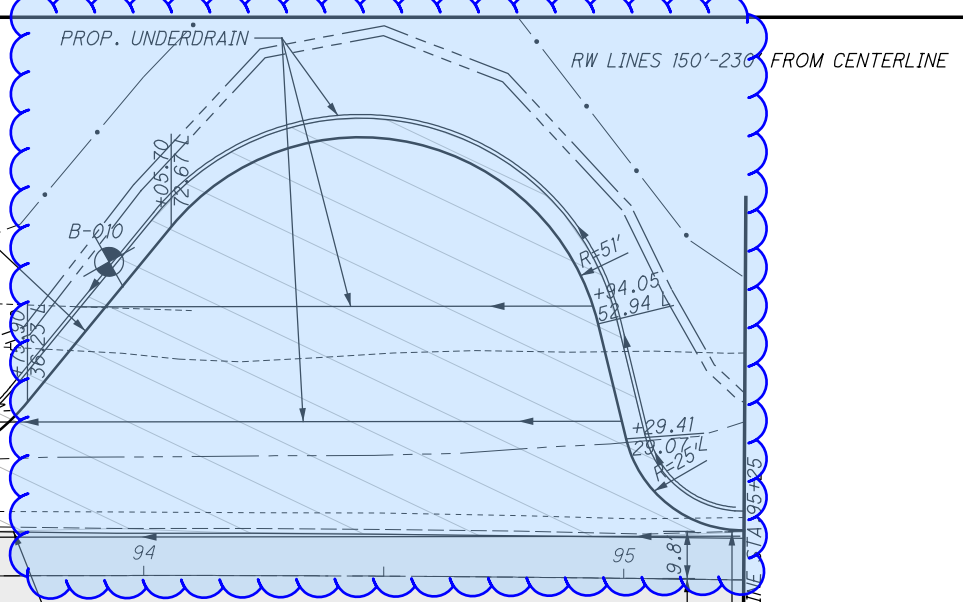
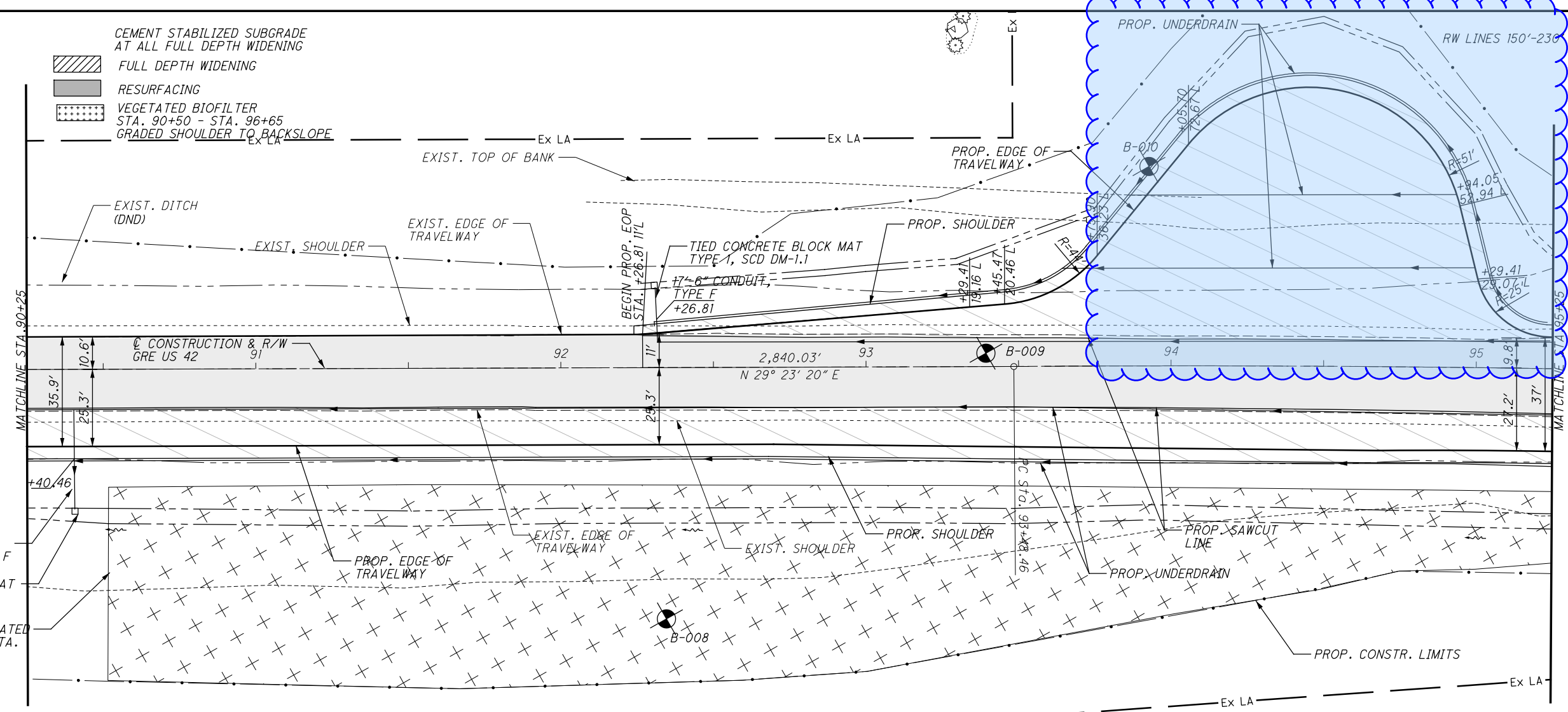
RW LINES 150'-230' FROM CENTERLINE



**PLAN AND PROFILE
STA. 85+25 TO STA. 90+25**

GRE-42-3.15

-  CEMENT STABILIZED SUBGRADE AT ALL FULL DEPTH WIDENING
-  FULL DEPTH WIDENING
-  RESURFACING
-  VEGETATED BIOFILTER STA. 90+50 - STA. 96+65
-  GRADED SHOULDER TO BACKSLOPE



anenders

915	901.12	901.33	901.52	901.71	901.90	902.02	902.16	902.29	902.40	902.52	902.64	902.73	902.85	902.96	903.09	903.21	903.34	903.48	903.59	903.73	915	
910																						910
905																						905
900																						900
895																						895
890																						890
885																						885
880																						880
	901.12		901.52		901.90		902.16		902.40		902.64		902.85		903.09		903.34		903.59			
	91+00		92+00		93+00		94+00		95+00													

CONTINUE MILL AND RESURFACE

PROPOSED PROFILE WILL BE EQUAL TO THAT OF THE EXIST. AFTER MILLING AND RESURFACING

☒ CONSTRUCTION & R/W GRE-US 42

CALCULATED ABH
CHECKED JDO




HORIZONTAL SCALE IN FEET

PLAN AND PROFILE
STA. 90+25 TO STA. 95+25

GRE-42-3.15

END WORK:
STA. 61+90.00

SEE SHEET 15 FOR GRE US 42

END WORK:
STA. 65+50.00

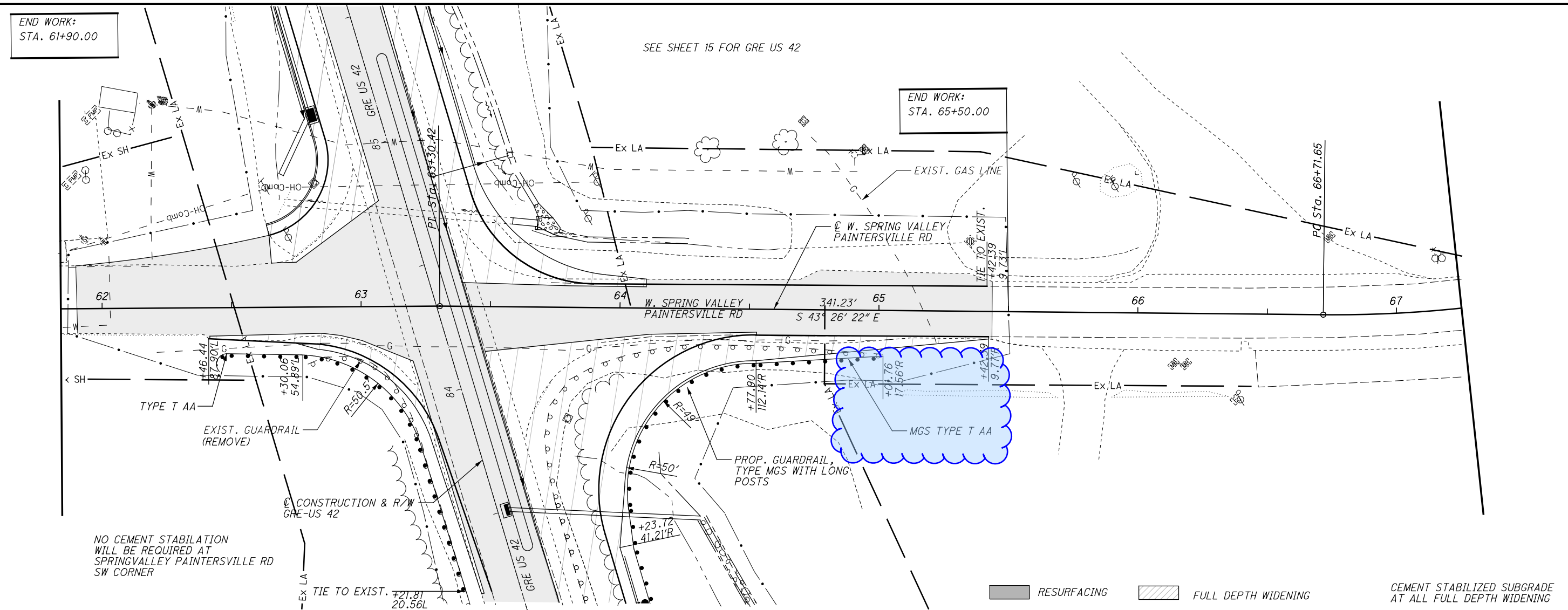
CALCULATED
ABH
CHECKED
JDO

0 20 40
HORIZONTAL
SCALE IN FEET

SPRING VALLEY RD
PAINTERSVILLE RD
PLAN AND PROFILE
STA. 62+25.00 TO STA 65+50.00

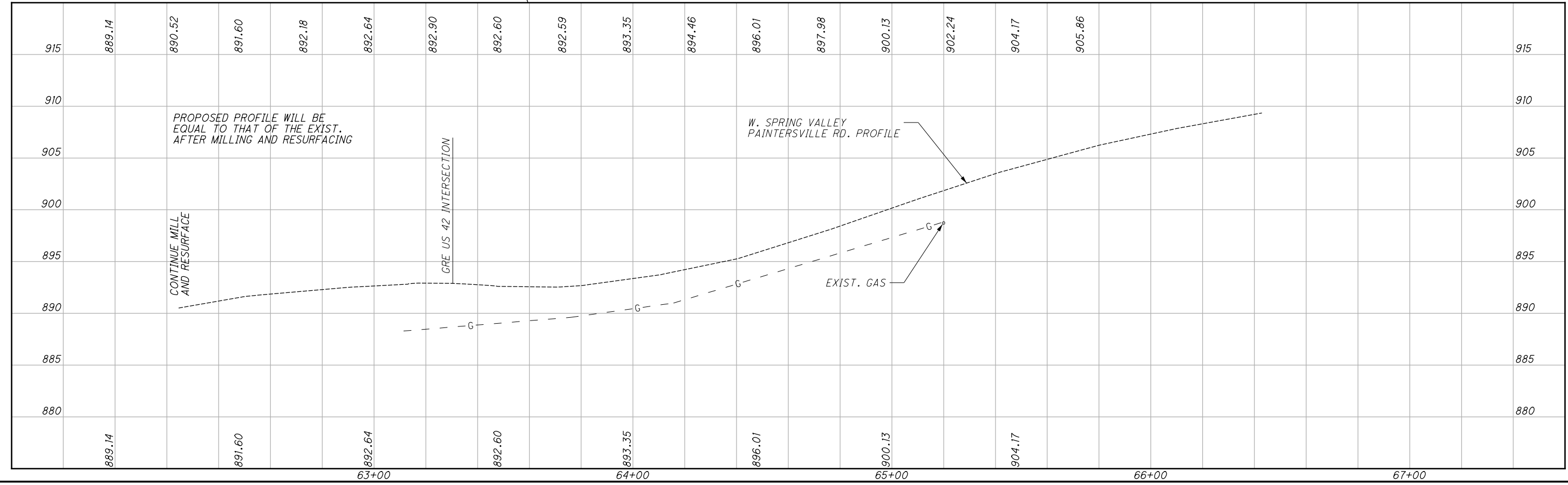
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NO CEMENT STABILATION
WILL BE REQUIRED AT
SPRINGVALLEY PAINTERSVILLE RD
SW CORNER

RESURFACING
FULL DEPTH WIDENING
CEMENT STABILIZED SUBGRADE
AT ALL FULL DEPTH WIDENING

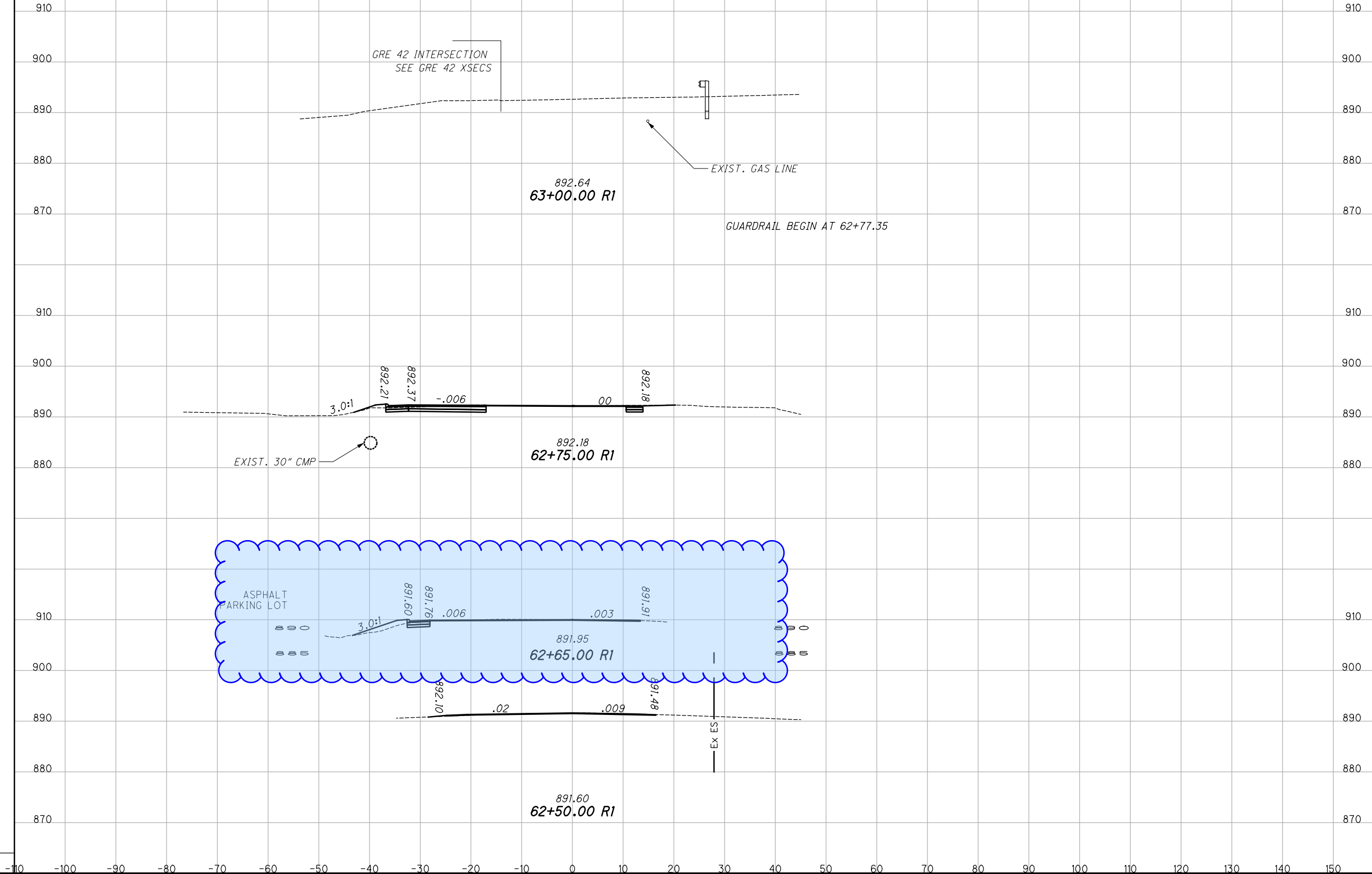


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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	ABH	JDO
0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		



CROSS SECTIONS SPRING VALLEY
STA. 62+50.00 R1 TO STA. 63+00.00 R1


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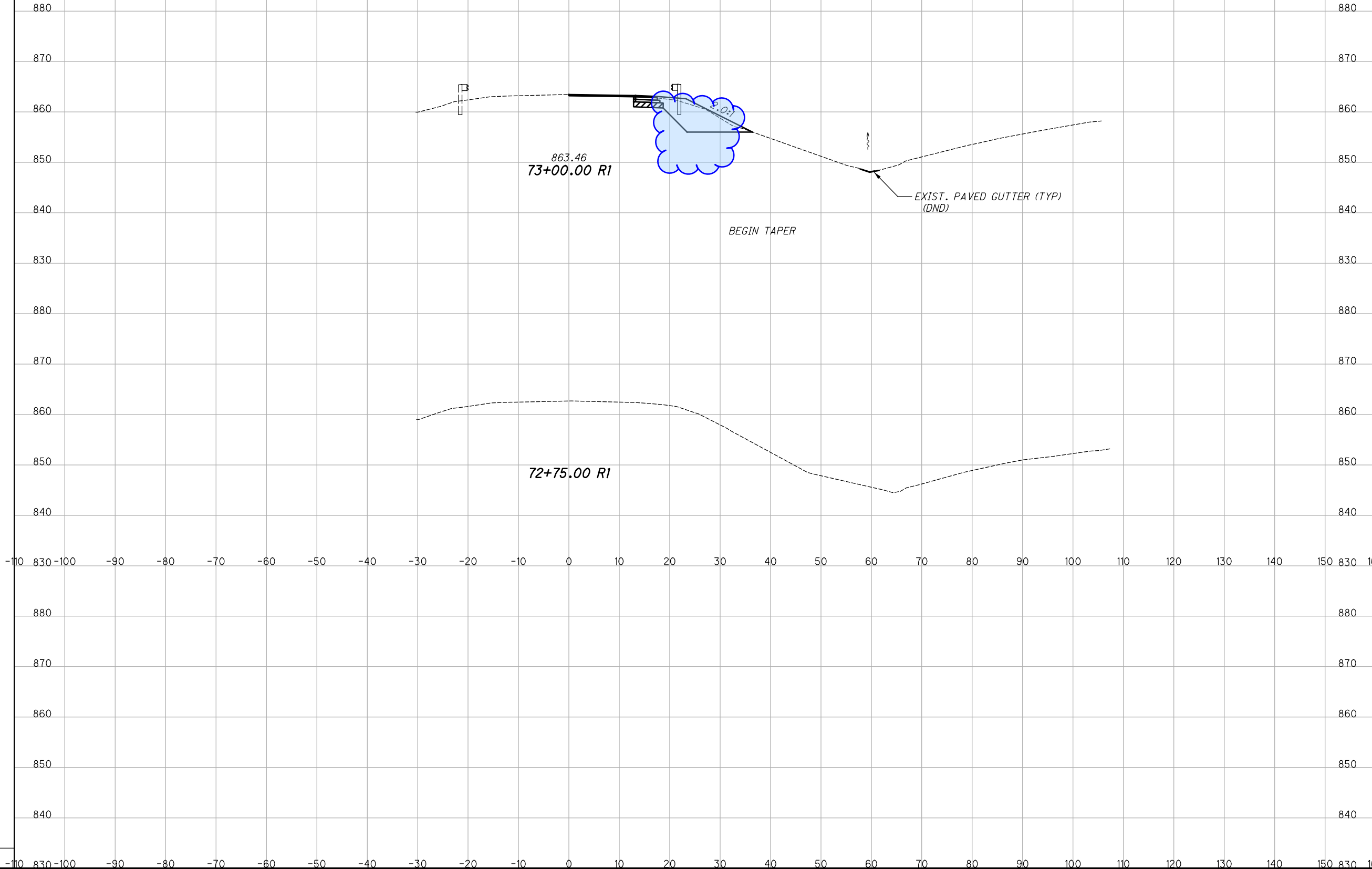
SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	ABH	JDO

 ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE



CROSS SECTIONS - U.S. 42
STA. 72+50.00 R1 TO STA. 73+00.00 R1

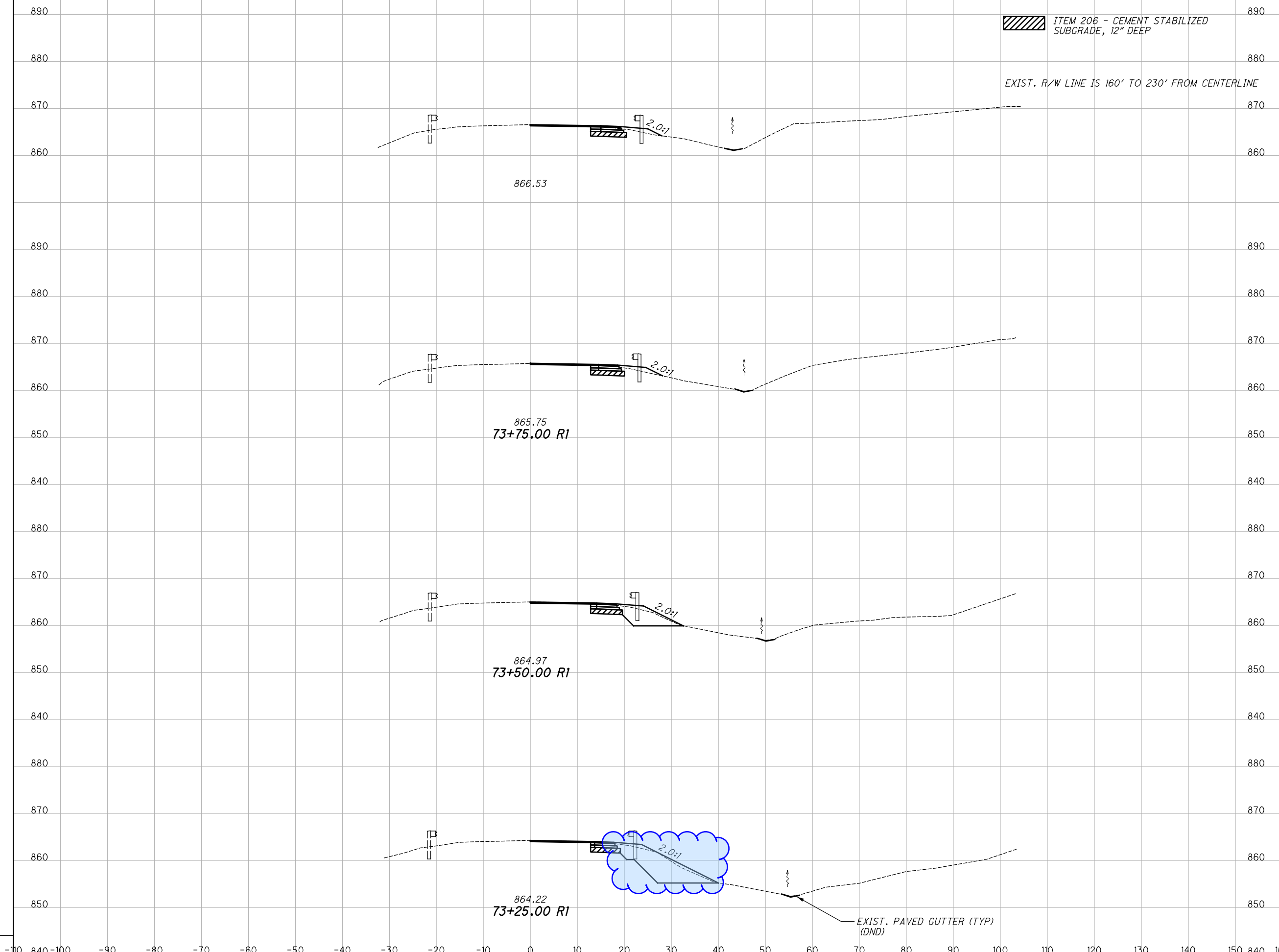
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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	ABH	JDO



10	5	9	5		
10	6	10	6		
11	6	9	7		
9	10	8	8		

CROSS SECTIONS - U.S. 42
STA. 73+25.00 R1 TO STA. 74+00.00 R1

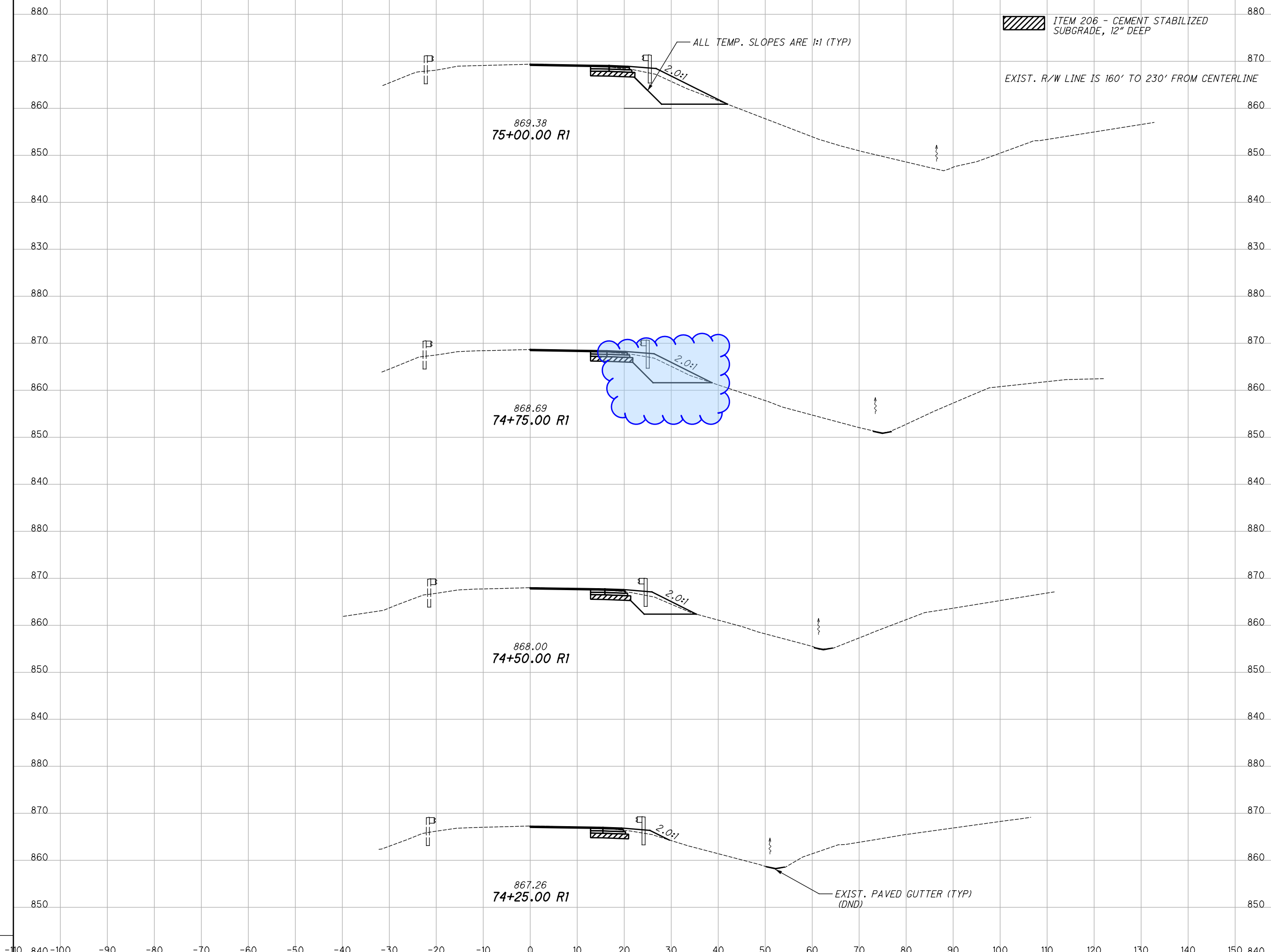
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23
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42_2 1/2/2020 10:27:59 AM ananders

SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED
ABH
CHECKED
JDO



END AREA	VOLUME	CALCULATED	CHECKED
CUT	FILL	ABH	JDO
59	17		
	32		
11	13		
	10		
11	9		
	10		
11	5		
	10		
	5		

CROSS SECTIONS - U.S. 42
STA. 74+25.00 R1 TO STA. 75+00.00 R1

GRE-42-03.15

24
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42.2 1/2/2020 10:27:59 AM ahenders

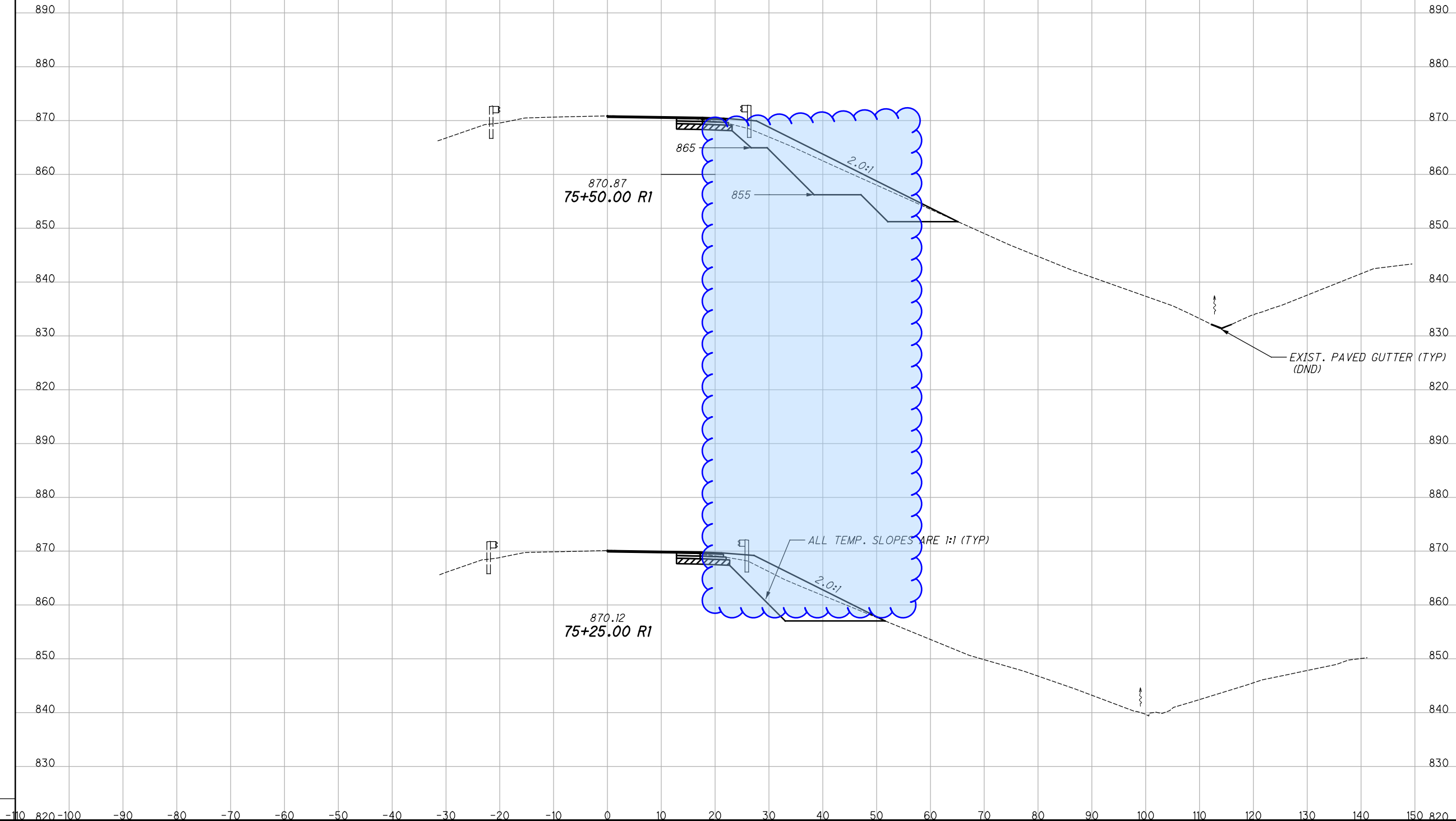
SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	ABH	JDO
205	43	141	34		
99	31	73	22		

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE



CROSS SECTIONS - U.S. 42
STA. 75+25.00 R1 TO STA. 75+50.00 R1

GRE-42-03.15

25
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42_2 1/2/2020 10:27:59 AM ahenders

SEEDING

END WIDTH	SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL

END AREA		VOLUME	
CUT	FILL	CUT	FILL
308	69	259	56
252	51	212	44

CALCULATED
ABH
CHECKED
JDO

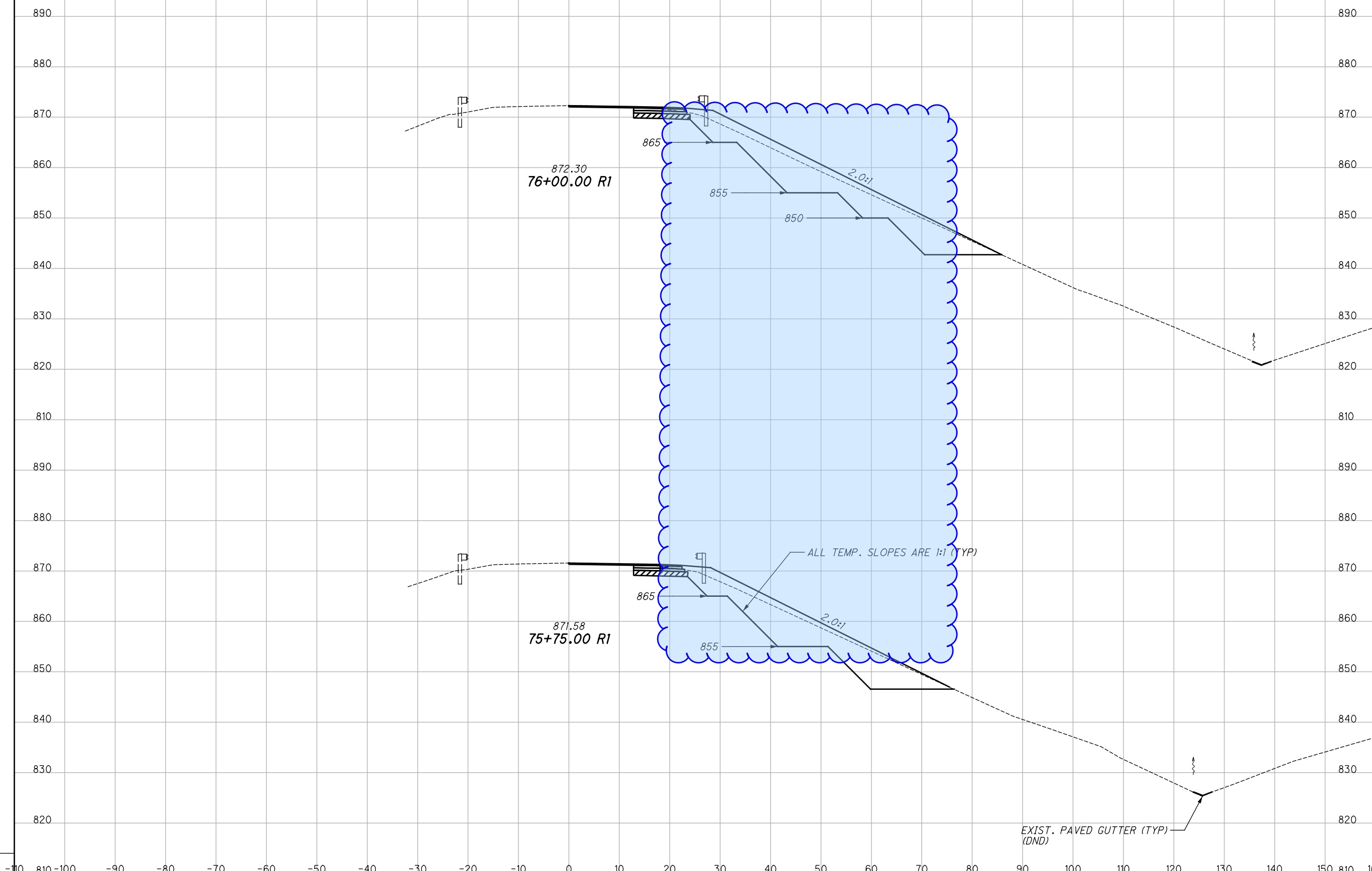
CROSS SECTIONS - U.S. 42
STA. 75+75.00 R1 TO STA. 76+00.00 R1

GRE-42-03.15

26
73

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

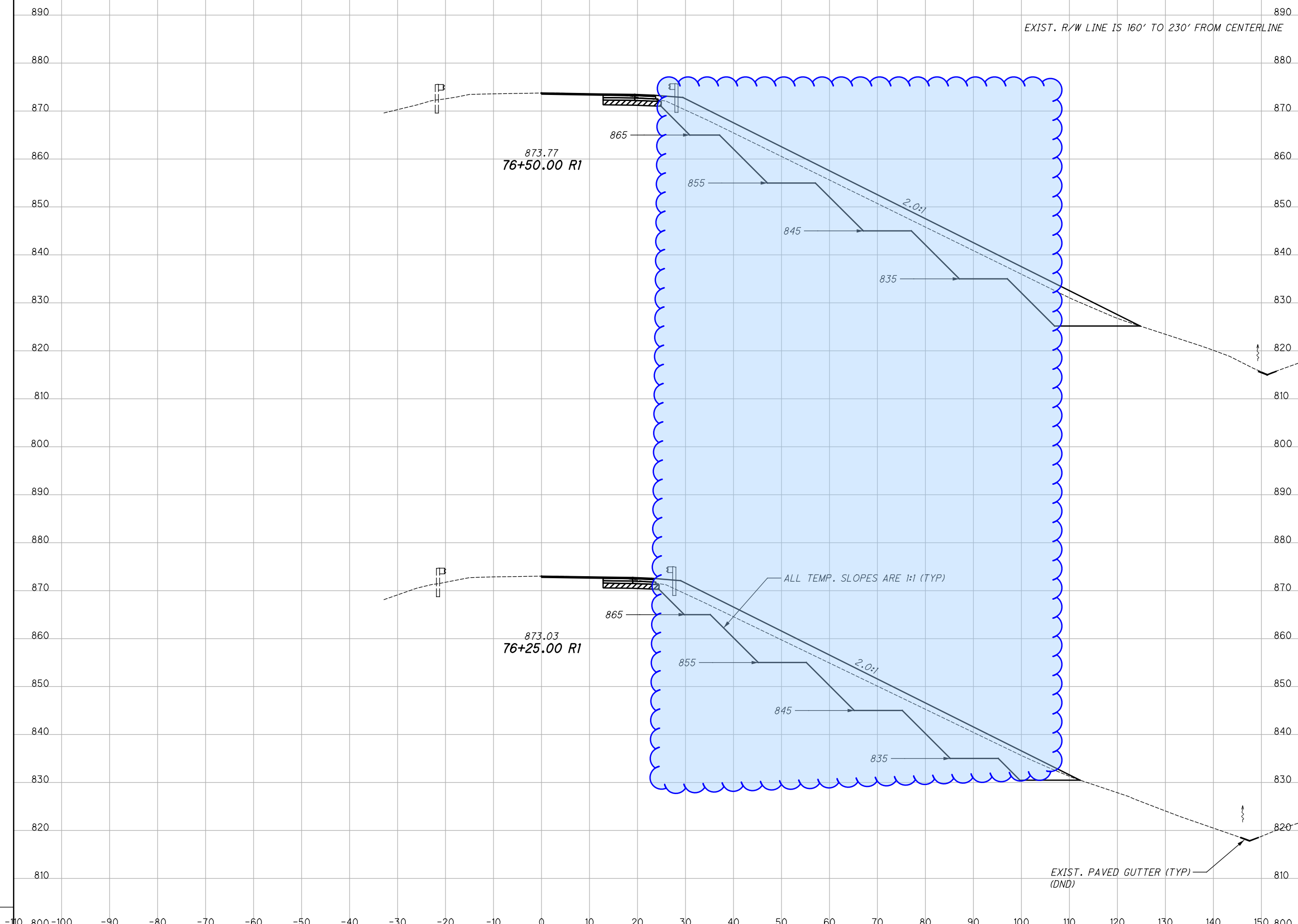
EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE



I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42.2 1/2/2020 10:27:59 AM ahenders

SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED
ABH
CHECKED
JDO



END AREA	VOLUME	CALCULATED	CHECKED
CUT	FILL	CUT	FILL
461	170		
407	138		
419	129		
337	92		

CROSS SECTIONS - U.S. 42
STA. 76+25.00 R1 TO STA. 76+50.00 R1

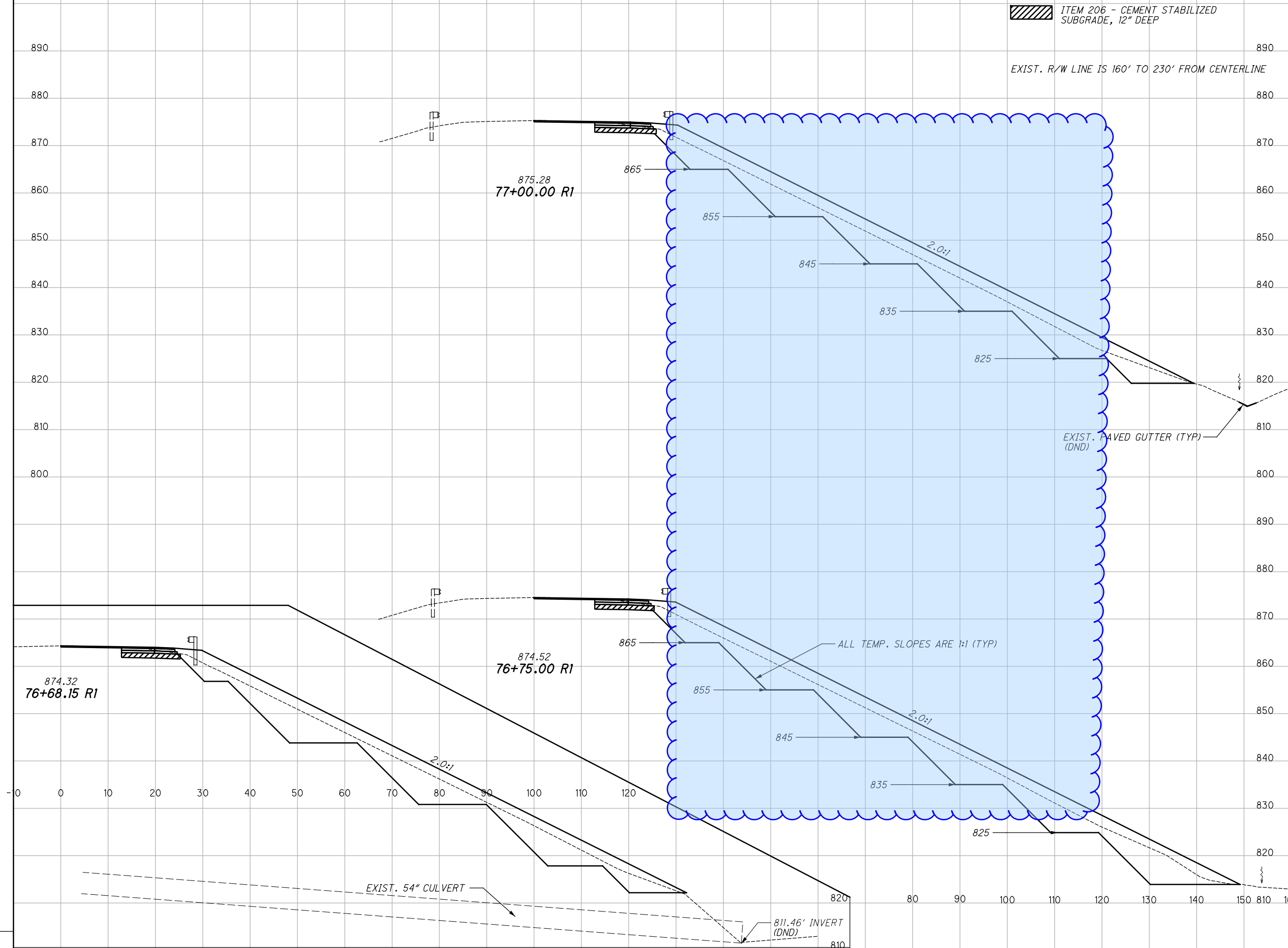
GRE-42-03.15

27
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\108640_XS008.dgn CLX_42.2 1/2/2020 10:28:00 AM ahenders

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED



491	271				
479	253				
544	275				
465	206				

CROSS SECTIONS-U.S. 42
STA. 76+75.00 R1 TO STA. 77+00.00 R1

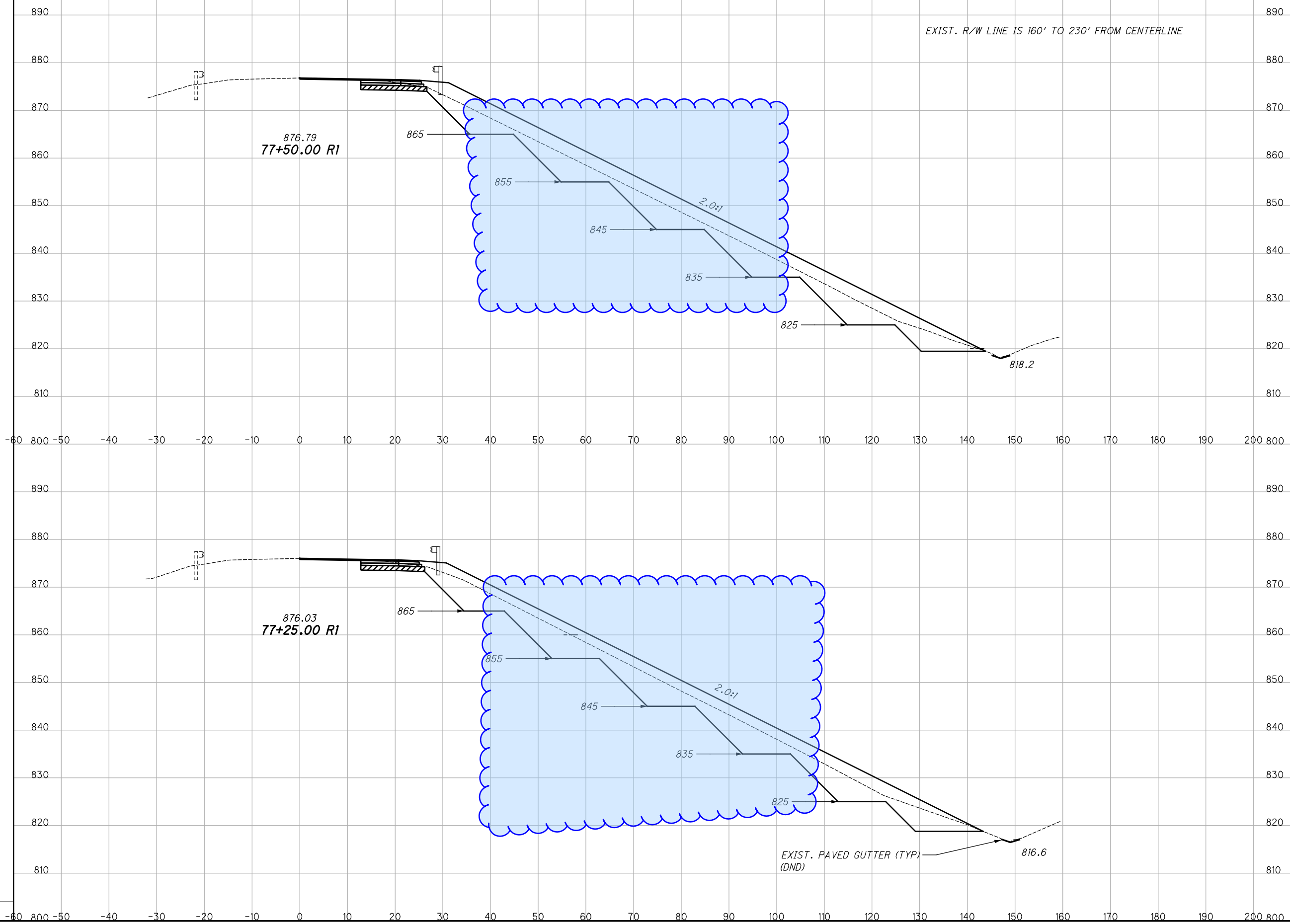
GRE-42-03.15

28
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS010.dgn CLX_42_4 1/2/2020 10:28:10 AM ahenders

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED
					JDO



ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED
12	306	11	253		
12	240	0	0		

CROSS SECTIONS - U.S. 42
STA. 77+25.00 R1 TO STA. 77+50.00 R1

GRE-42-3.15

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS010.dgn CLX_42_4 1/2/2020 10:28:11 AM ahenders

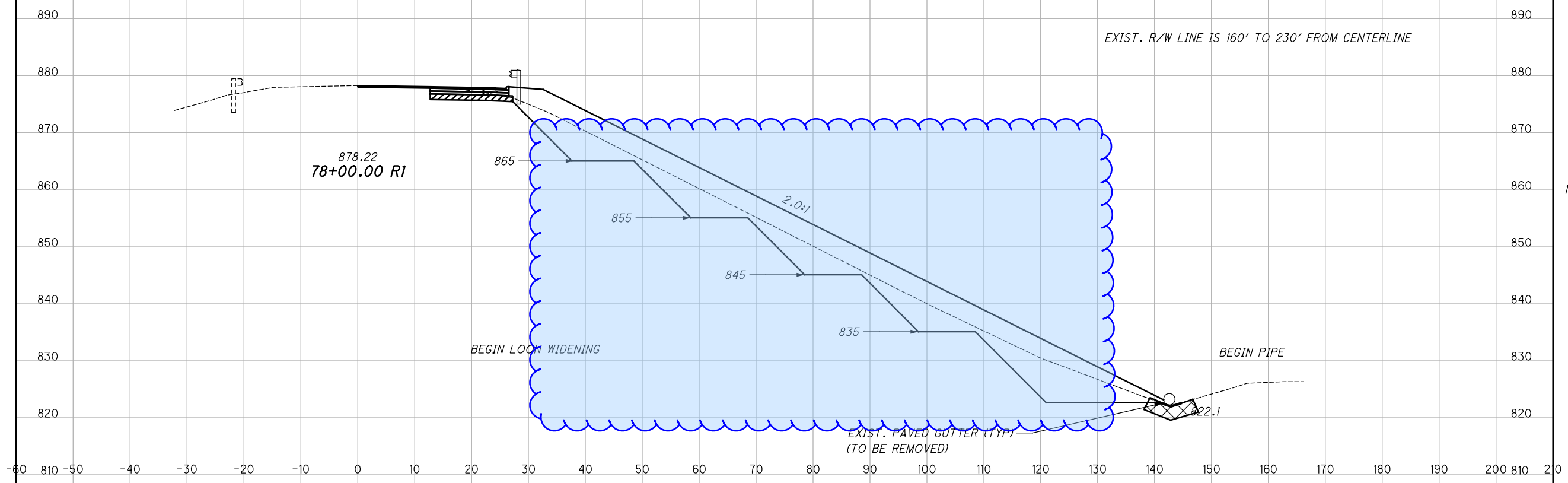
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED



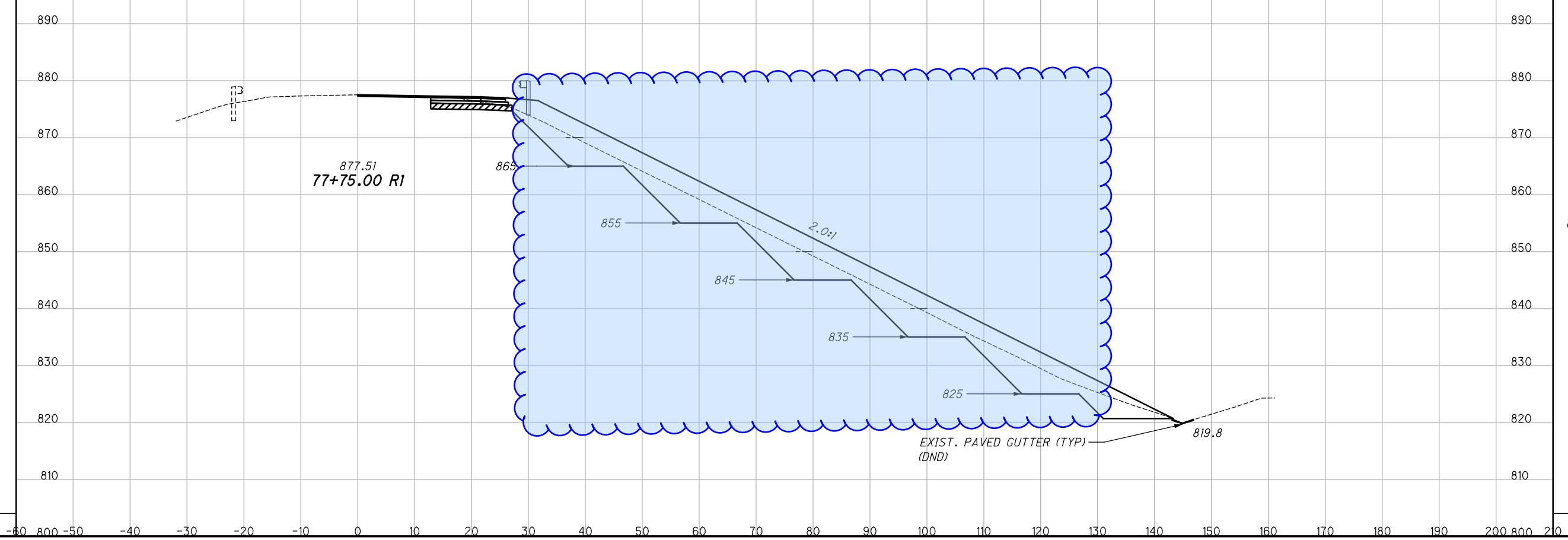
ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE



12 434

11 354



11 331

11 295

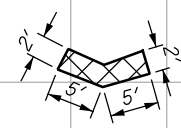
CROSS SECTIONS - U.S. 42
STA. 77+75.00 R1 TO STA. 78+00.00 R1
GRE-42-3.15
 30
 73

I:\Project\GRE\08640_GRE-US42-3.16\Design\Roadway\Sheets\08640_XS010.dgn CLX_42_4 1/2/2020 10:28:11 AM ahenders

SEEDING

END WIDTH	SO. YDS.

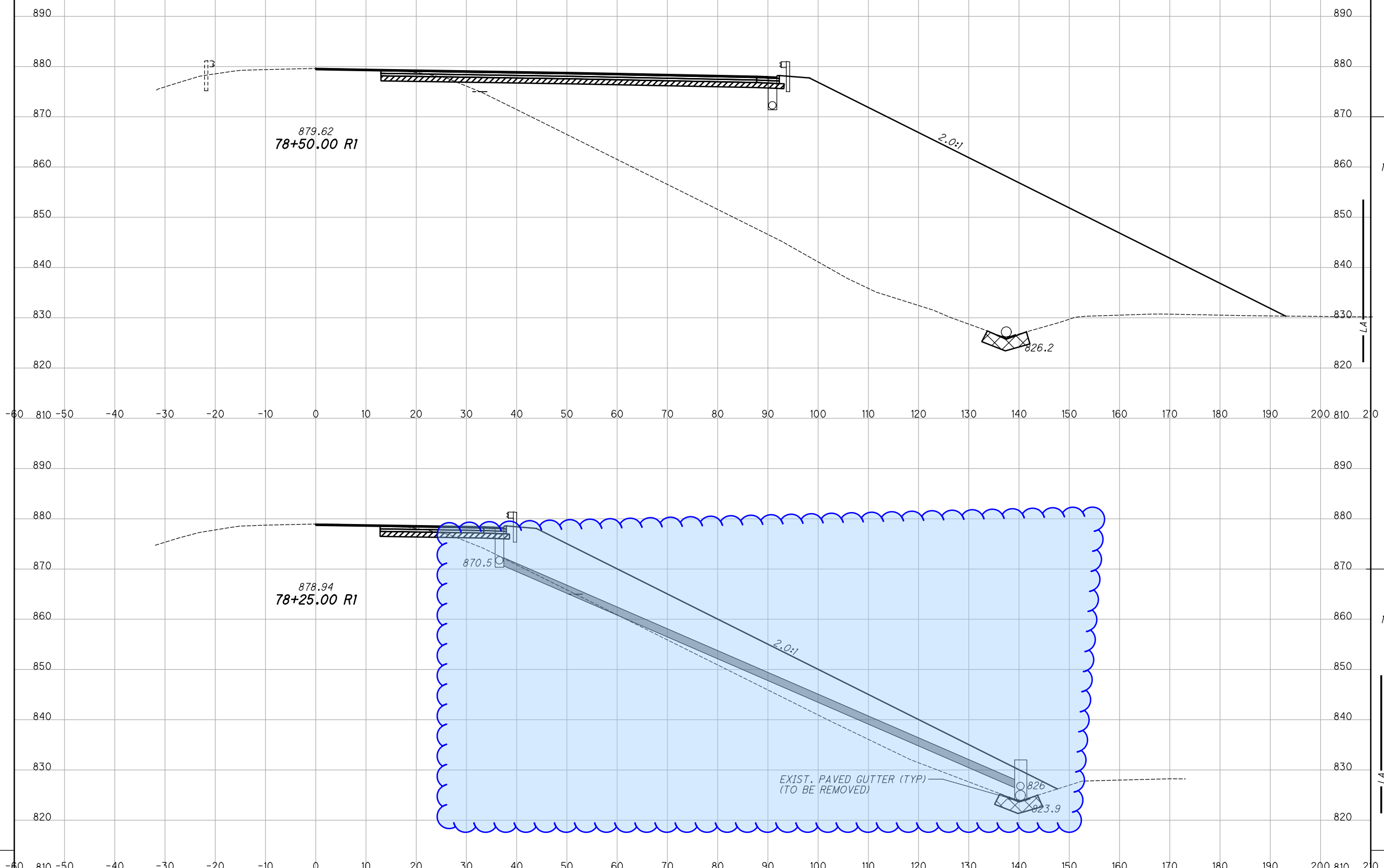
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	ABH	JDO
12	3459	11	2046		
12	960	11	645		



EXCAVATION AND BACKFILL

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE



CROSS SECTIONS - U.S. 42
STA. 78+25.00 R1 TO STA. 78+50.00 R1

GRE-42-3.15

31
73

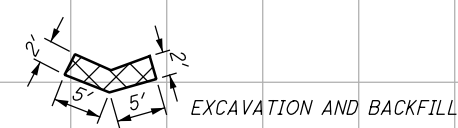
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SEEDING

END WIDTH	SO. YDS.

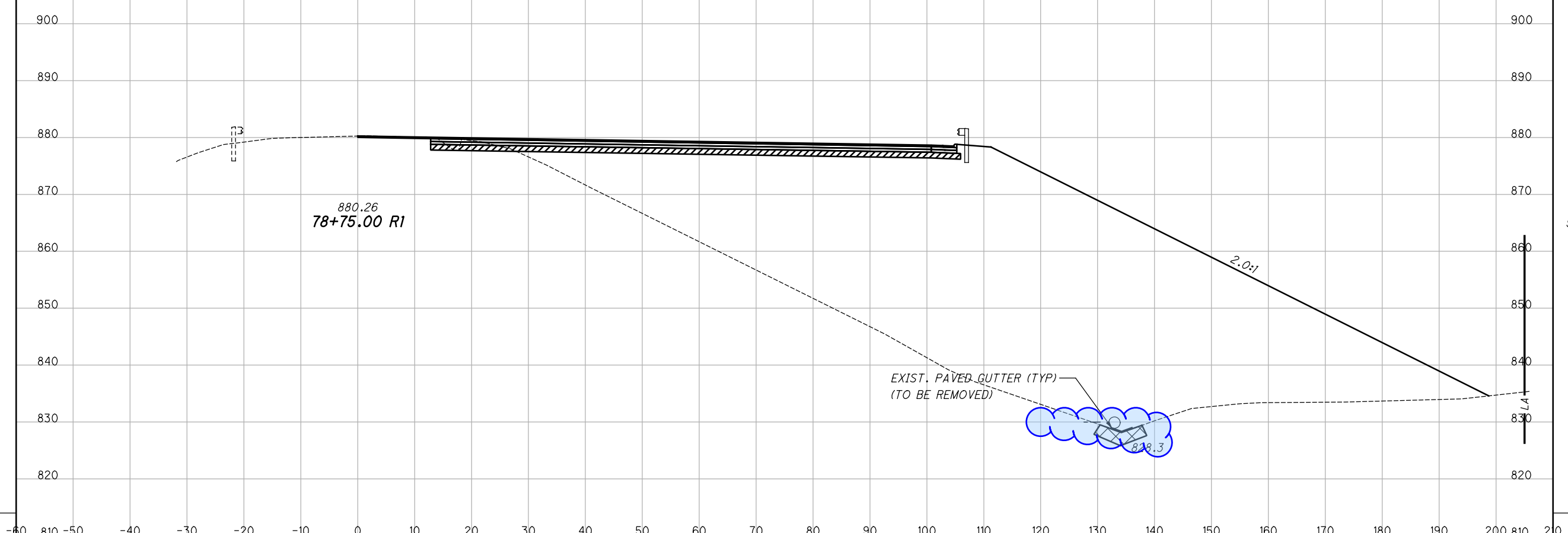
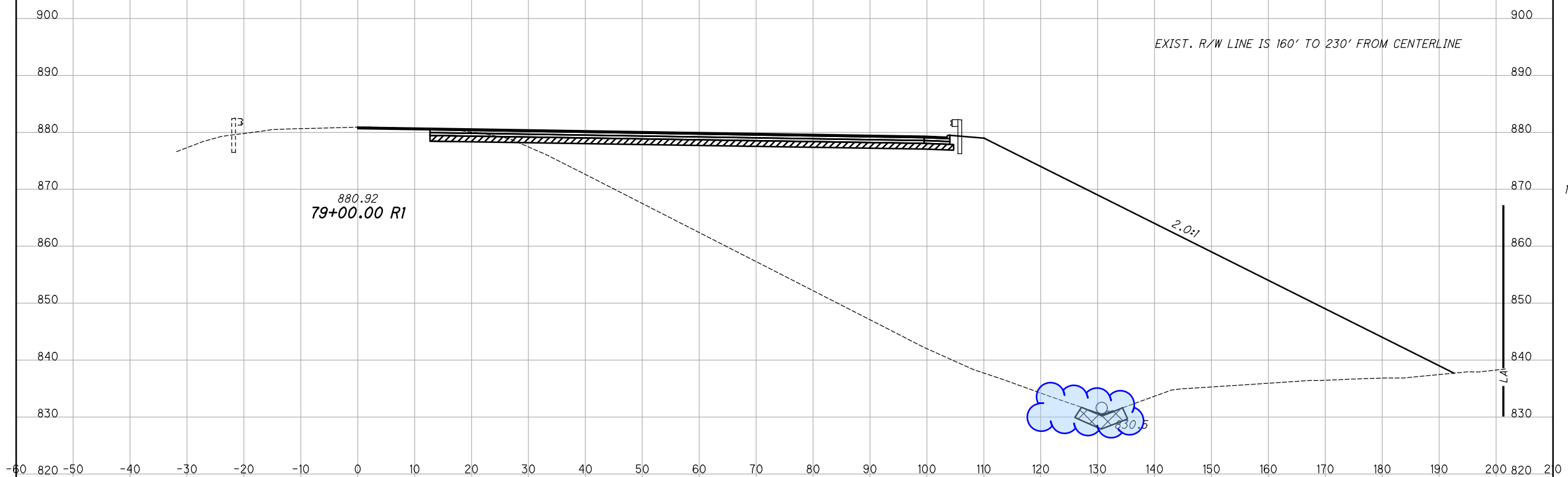
END AREA

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	ABH	JDO
12	3646				
		10	3475		
9	3860				
		10	3388		



ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE



CROSS SECTIONS - U.S. 42
STA. 78+75.00 R1 TO STA. 79+00.00 R1

GRE-42-3.15

32
73

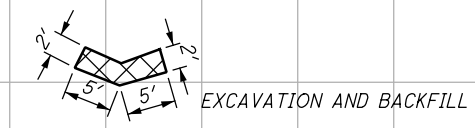
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SEEDING

END WIDTH	SO. YDS.

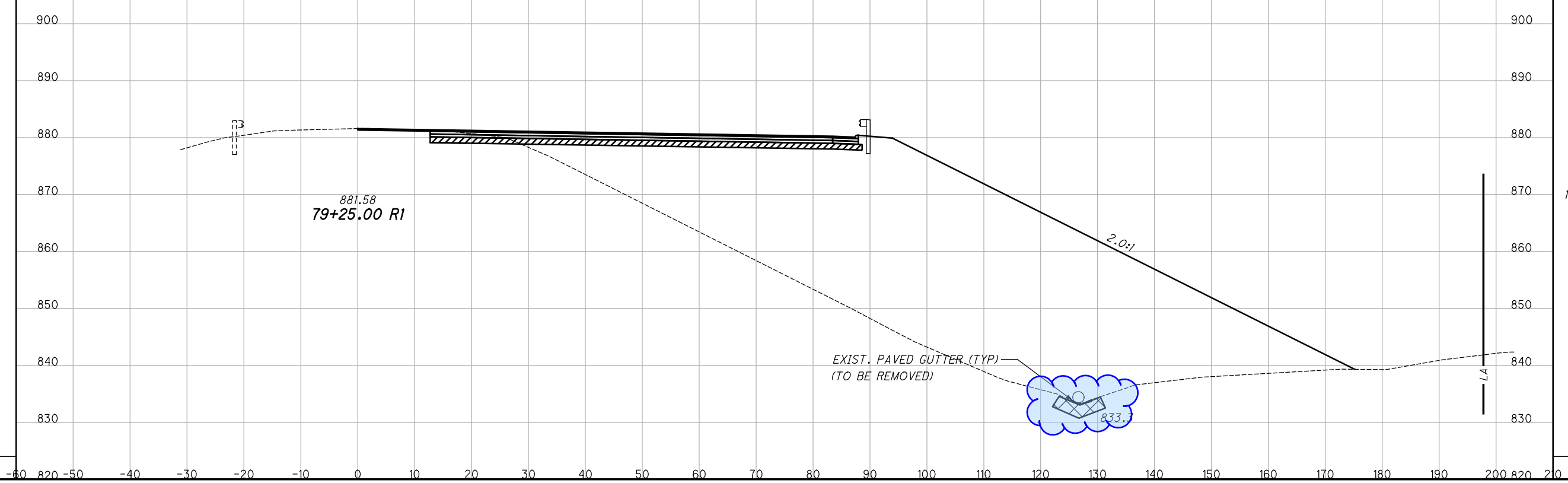
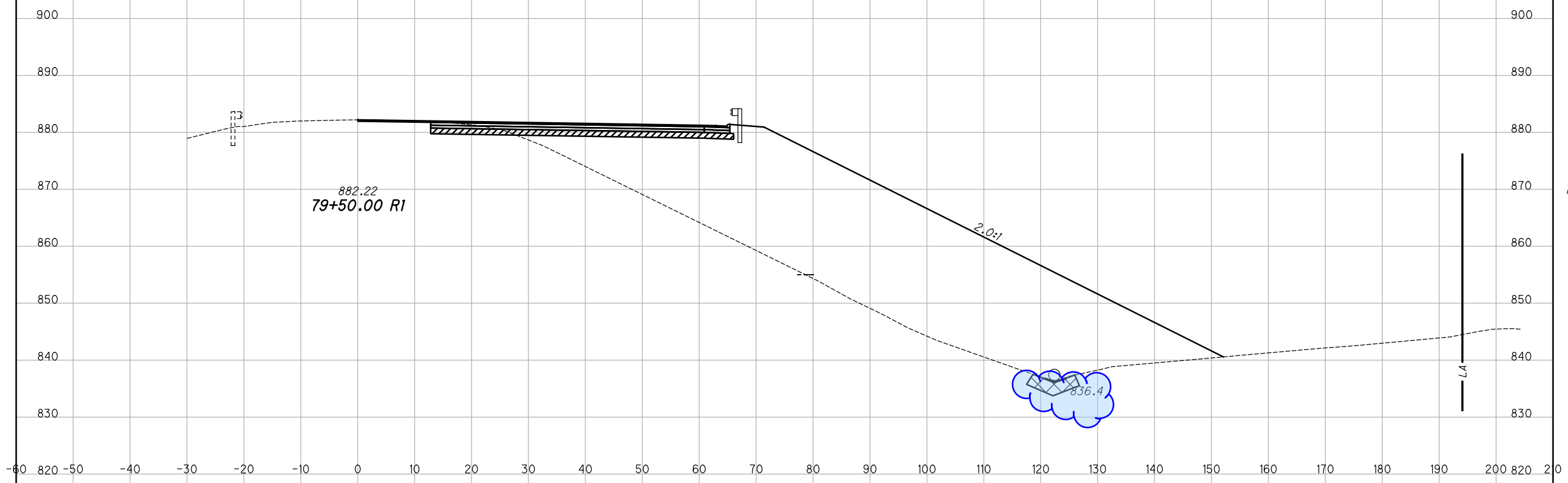
END AREA

CUT	FILL	VOLUME	CUT	FILL	CALCULATED	ABH	CHECKED	JDO
11	1878							
11	2184							
12	2839							
11	3002							



ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE



CROSS SECTIONS - U.S. 42
STA. 79+25.00 R1 TO STA. 79+50.00 R1

GRE-42-3.15

33
73

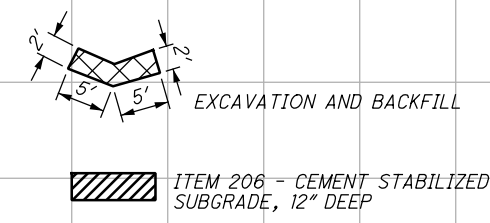
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SEEDING

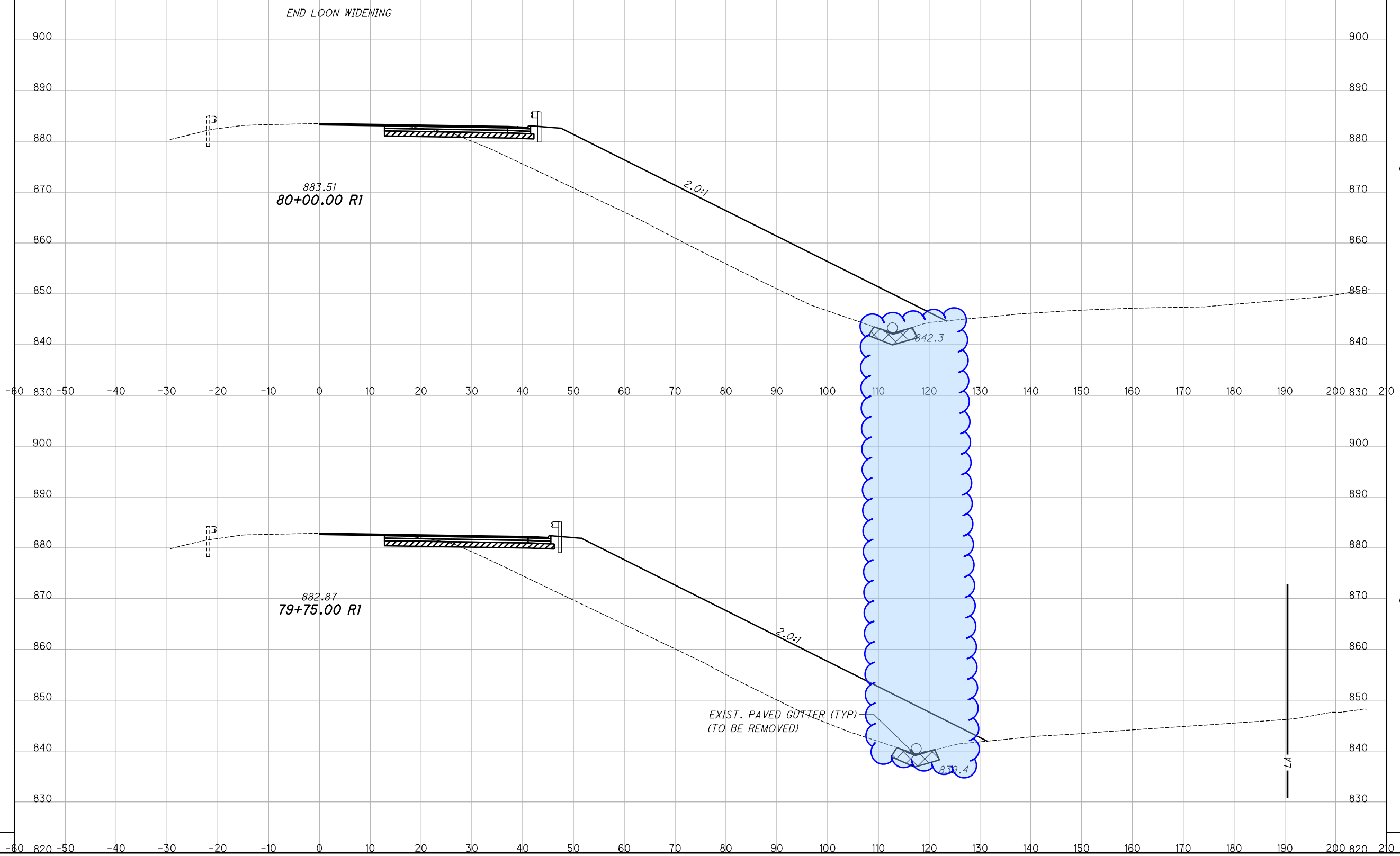
END WIDTH	SO. YDS.

END AREA

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	JDO
11	796				
		10	848		
11	1036				
		11	1349		



EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE



CROSS SECTIONS - U.S. 42
STA. 79+75.00 R1 TO STA. 80+00.00 R1

GRE-42-3.15

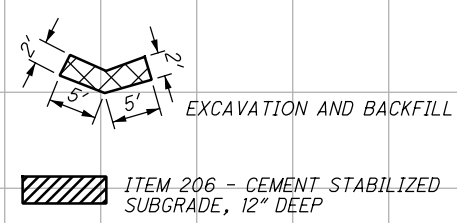
34
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS010.dgn CLX_42_6 1/2/2020 10:28:12 AM ahenders

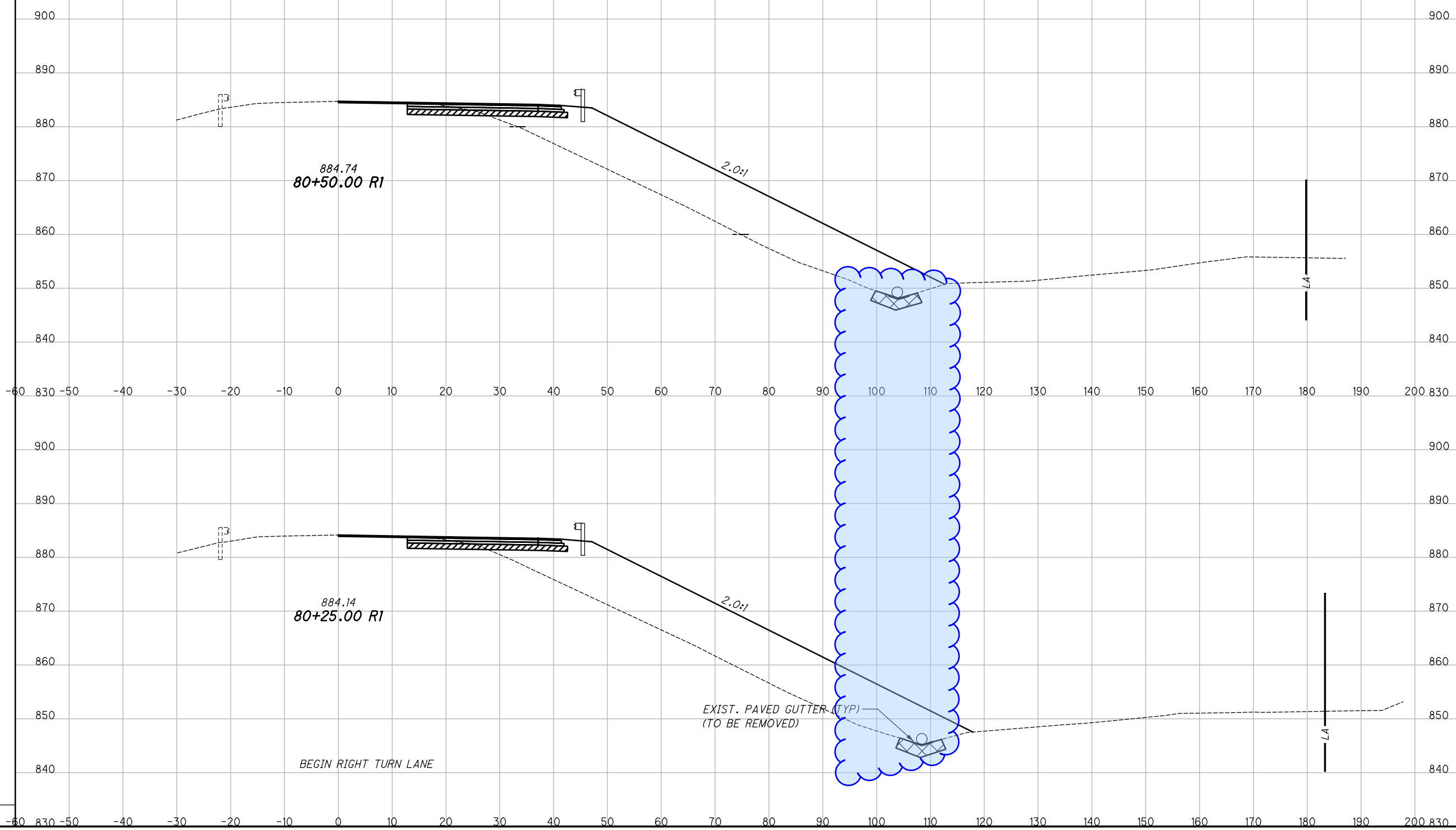
SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED
13	656				
12	639				
12	724	0	0		



EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE



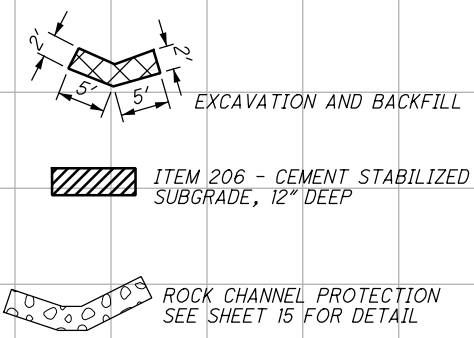
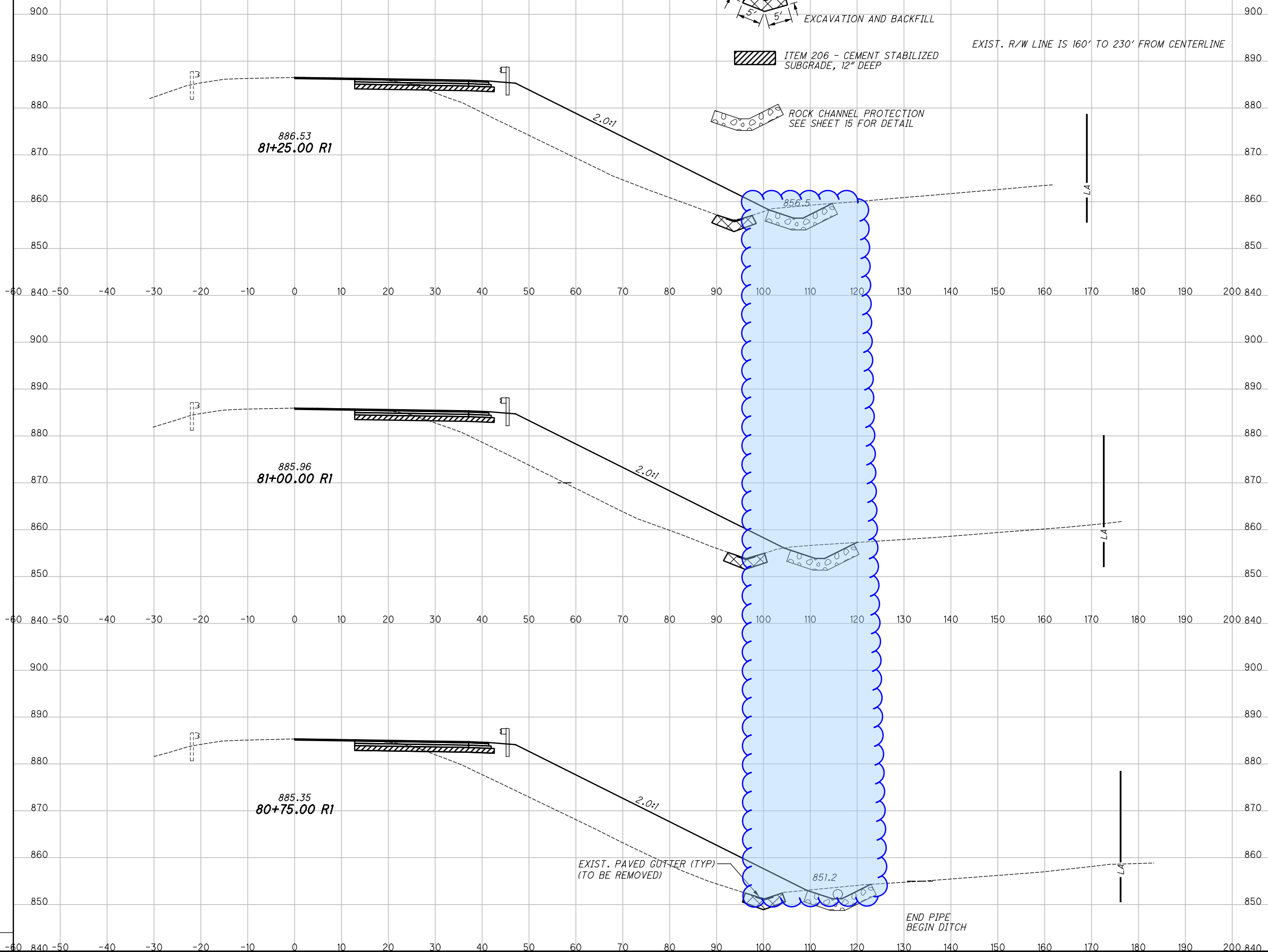
CROSS SECTIONS - U.S. 42
STA. 80+25.00 R1 TO STA. 80+50.00 R1

GRE-42-3.15

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED



EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED
15	520	14	493		
15	545	14	531		
14	601	13	582		

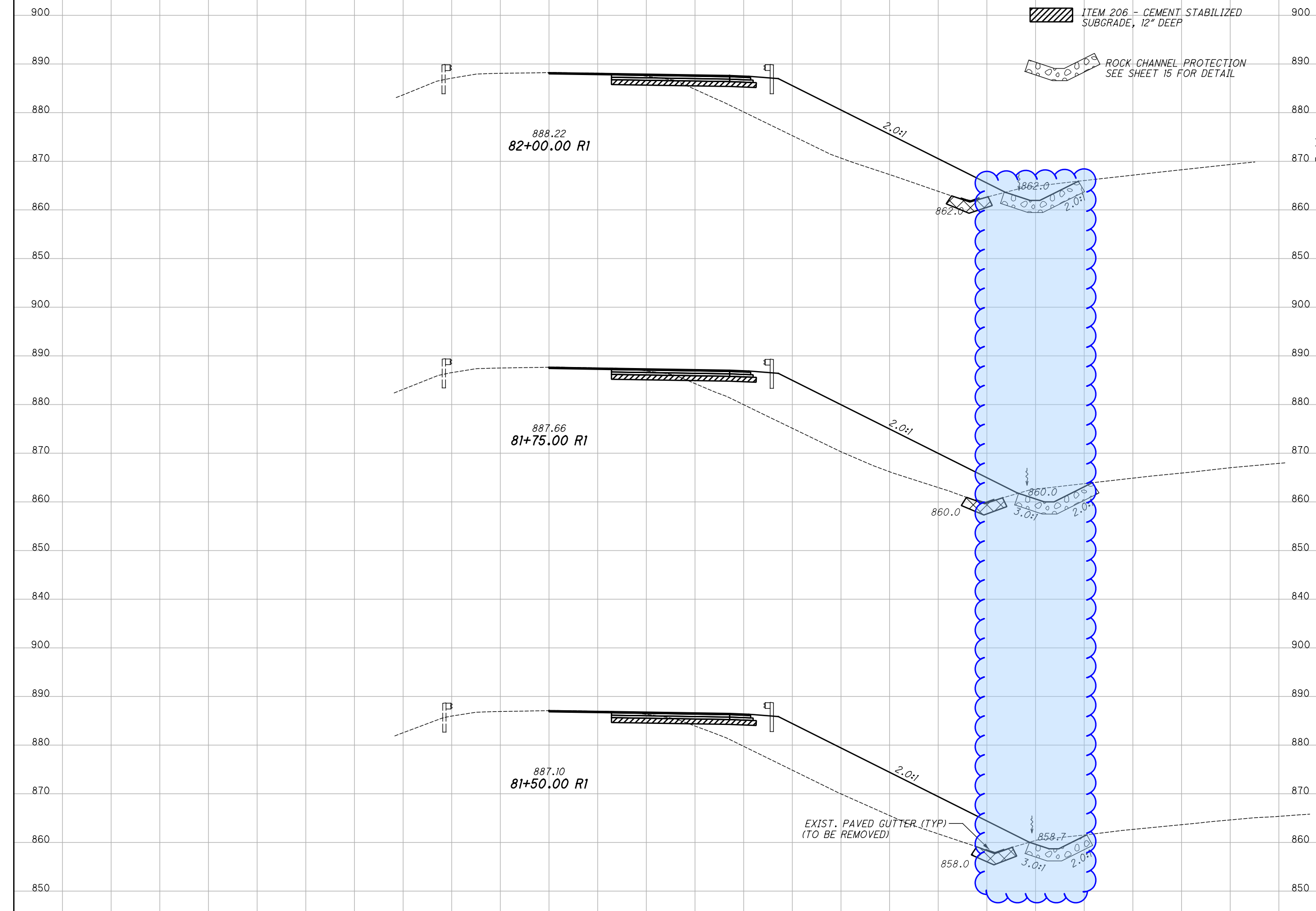
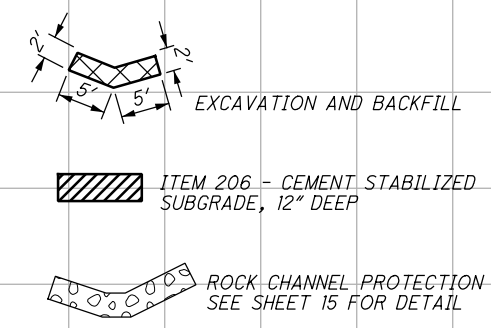
CROSS SECTIONS - U.S. 42
STA. 80+75.00 R1 TO STA. 81+25.00 R1

GRE-42-3.15

36
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42.2 1/2/2020 10:28:00 AM ahenders

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE
UNLESS OTHERWISE SHOWN



END	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
900						
890						
880	40	460				
870						
860			38	433		
850						
900						
890						
880	41	474				
870						
860			32	446		
850						
900						
890						
880	29	489				
870						
860						
850			29	467		
840						
180						

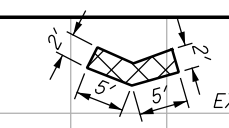
CROSS SECTIONS - U.S. 42
STA. 81+50.00 R1 TO STA. 82+00.00 R1

GRE-42-3.15

37
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42.2 1/2/2020 10:28:00 AM ahenders

SEEDING	
END WIDTH	SO. YDS.



EXCAVATION AND BACKFILL

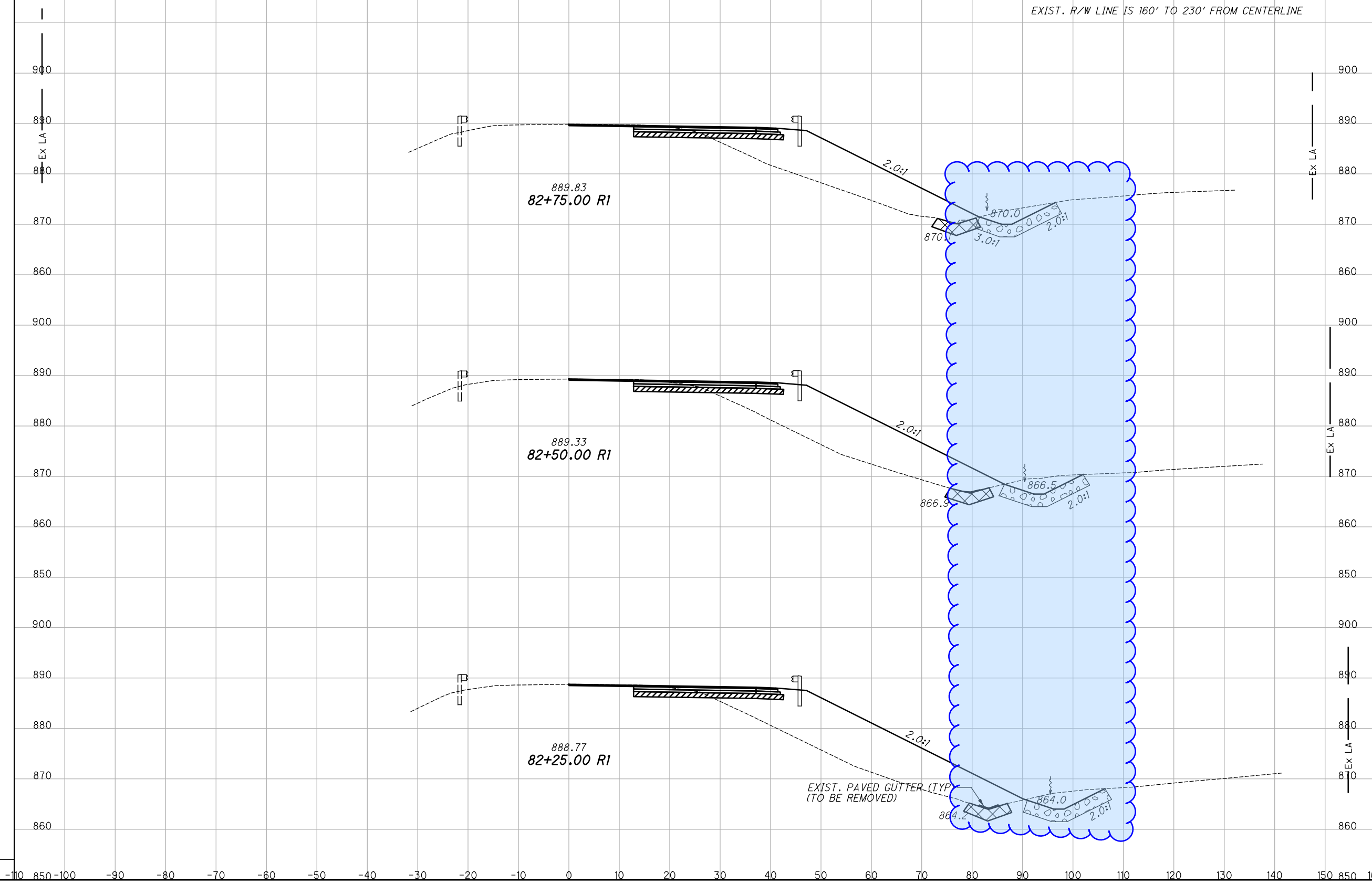


ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP



ROCK CHANNEL PROTECTION SEE SHEET 15 FOR DETAIL

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE



END STA.	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
82+75.00	40	314	39	328	ABH	JDO
82+50.00	45	394	42	383		
82+25.00	46	434	40	414		

CROSS SECTIONS - U.S. 42
STA. 82+25.00 R1 TO STA. 82+75.00 R1

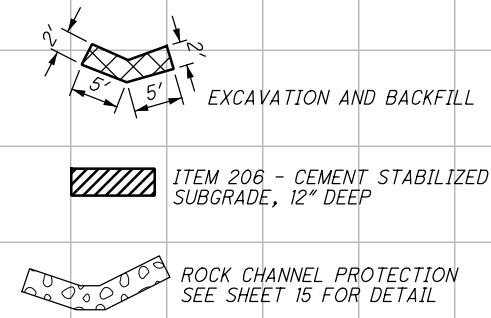
GRE-42-3.15

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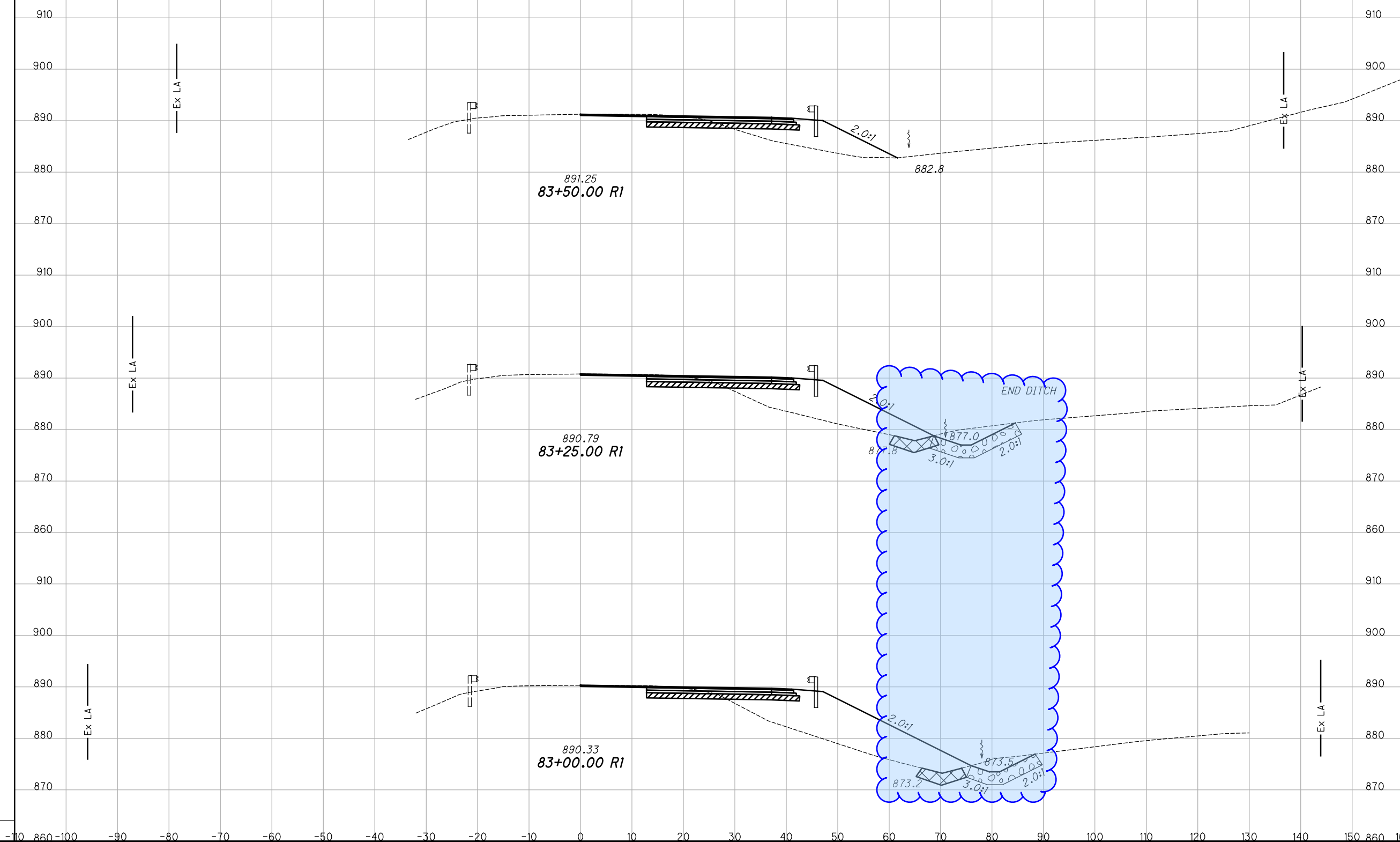
SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	ABH	JDO
18	111	29	139		
45	189	37	215		
35	275	35	273		



ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP



CROSS SECTIONS - U.S. 42
STA. 83+00.00 R1 TO STA. 83+50.00 R1

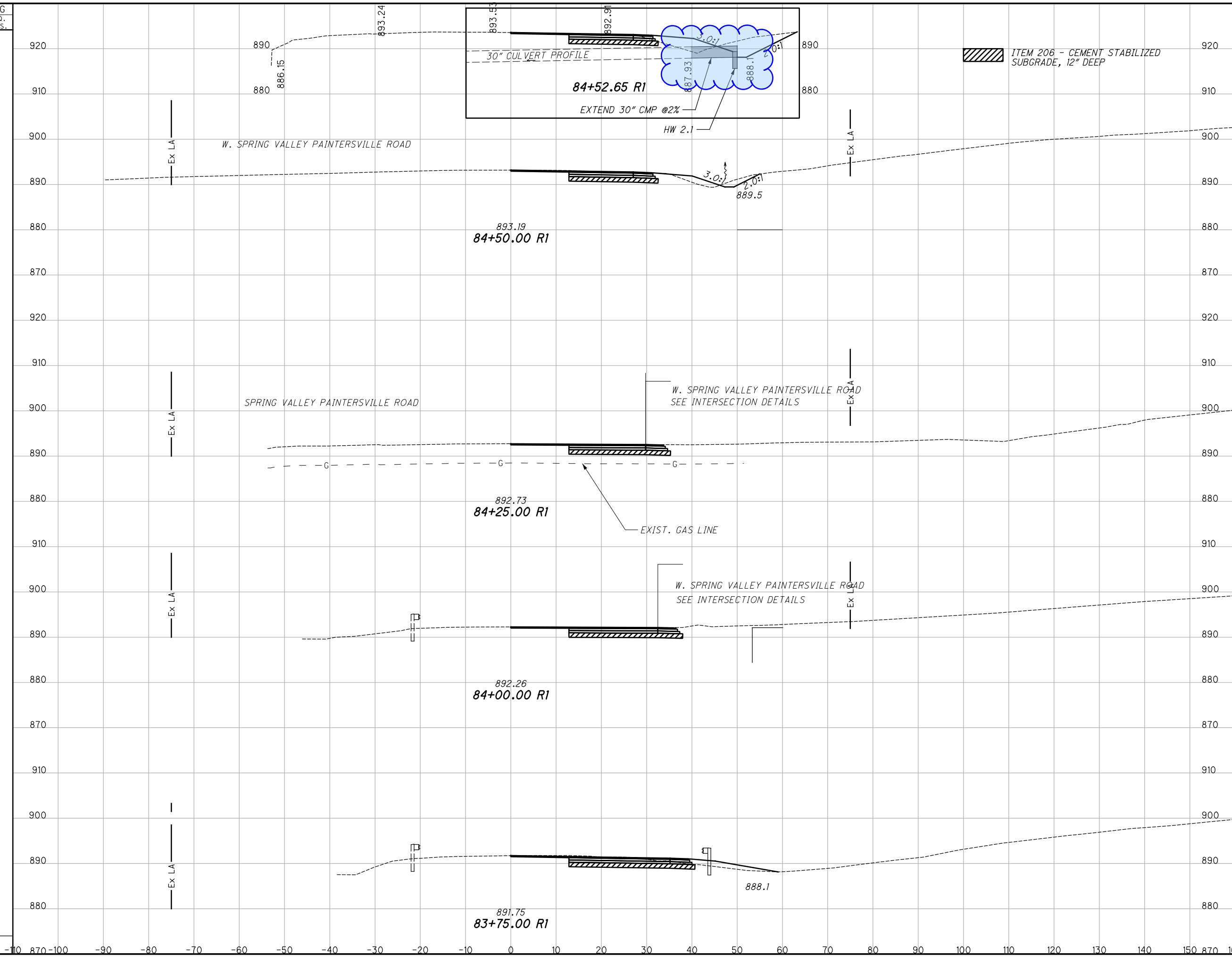
GRE-42-3.15

39
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42_2 1/2/2020 10:28:01AM ahenders

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED



END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED
27	5				
0	0	13	2		
0	0	0	0		
0	0	15	0		
32	17	23	59		

CROSS SECTIONS - U.S. 42
STA. 83+75.00 R1 TO STA. 84+50.00 R1


GRE-42-3.15

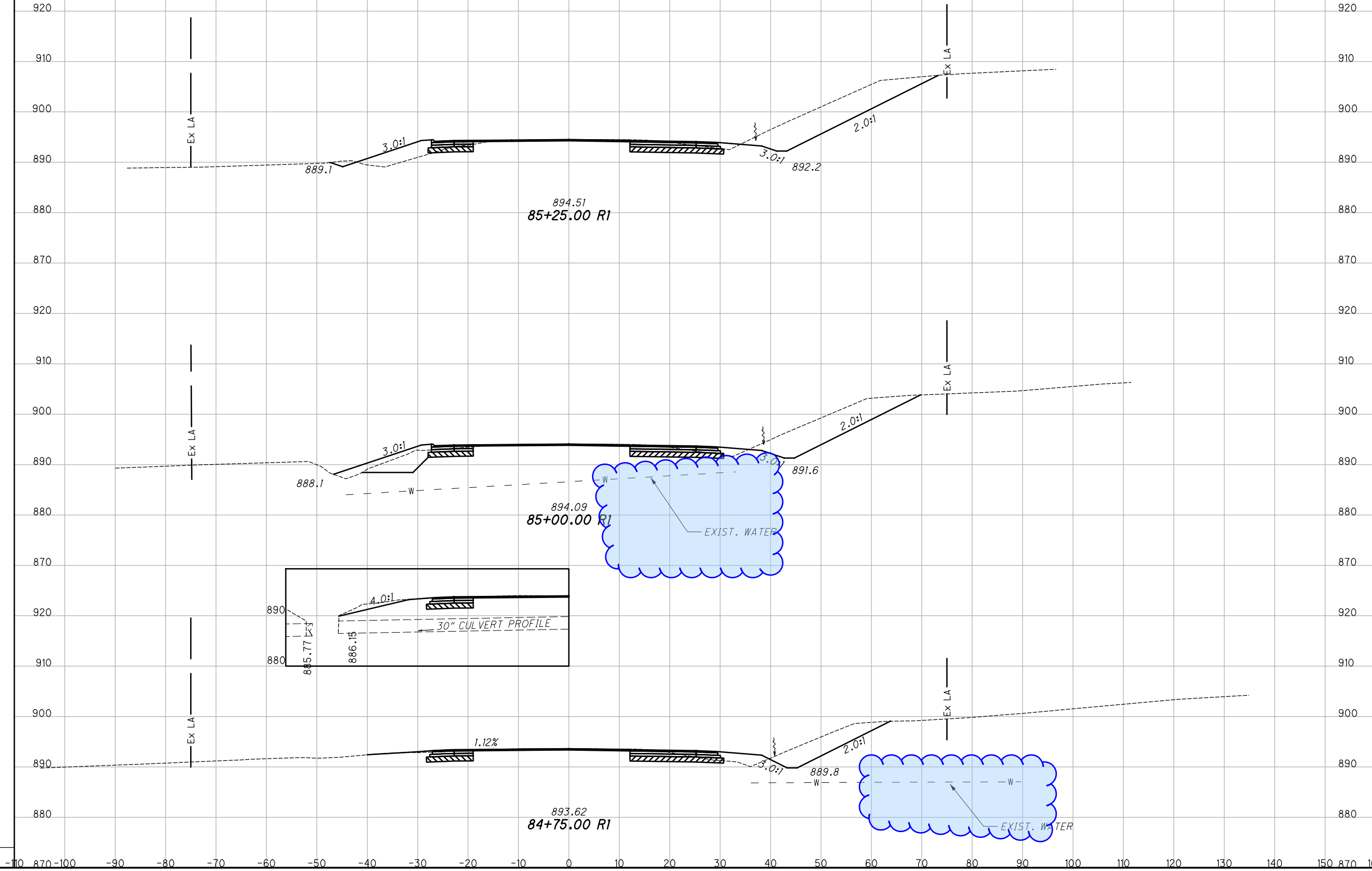
40
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42.2 1/2/2020 10:28:01AM ahenders

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
ABH
CHECKED
JDO

 ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
85+25.00 R1	137	8	109	6
85+00.00 R1	98	7	76	4
84+75.00 R1	67	3	44	3

CROSS SECTIONS - U.S. 42
STA. 84+75.00 R1 TO STA. 85+25.00 R1

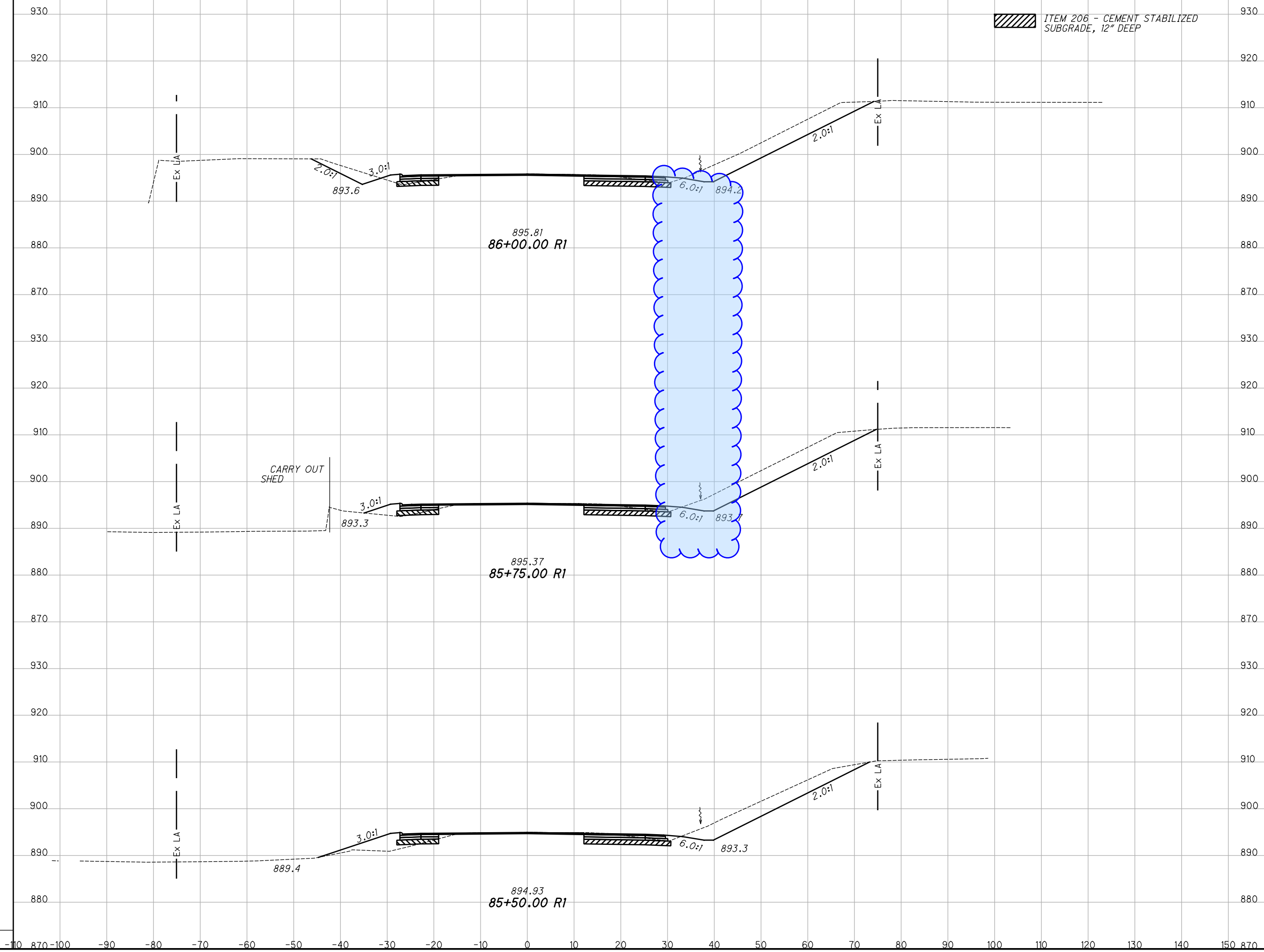
GRE-42-3.15

41
73

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED



930	126	9	117	8	
920					
910					
900					
890					
880					
870					
930	126	8	116	17	
920					
910					
900					
890					
880					
870					
930	125	29	121	8	
920					
910					
900					
890					
880					

CROSS SECTIONS - U.S. 42
STA. 85+50.00 R1 TO STA. 86+00.00 R1


GRE-42-3.15

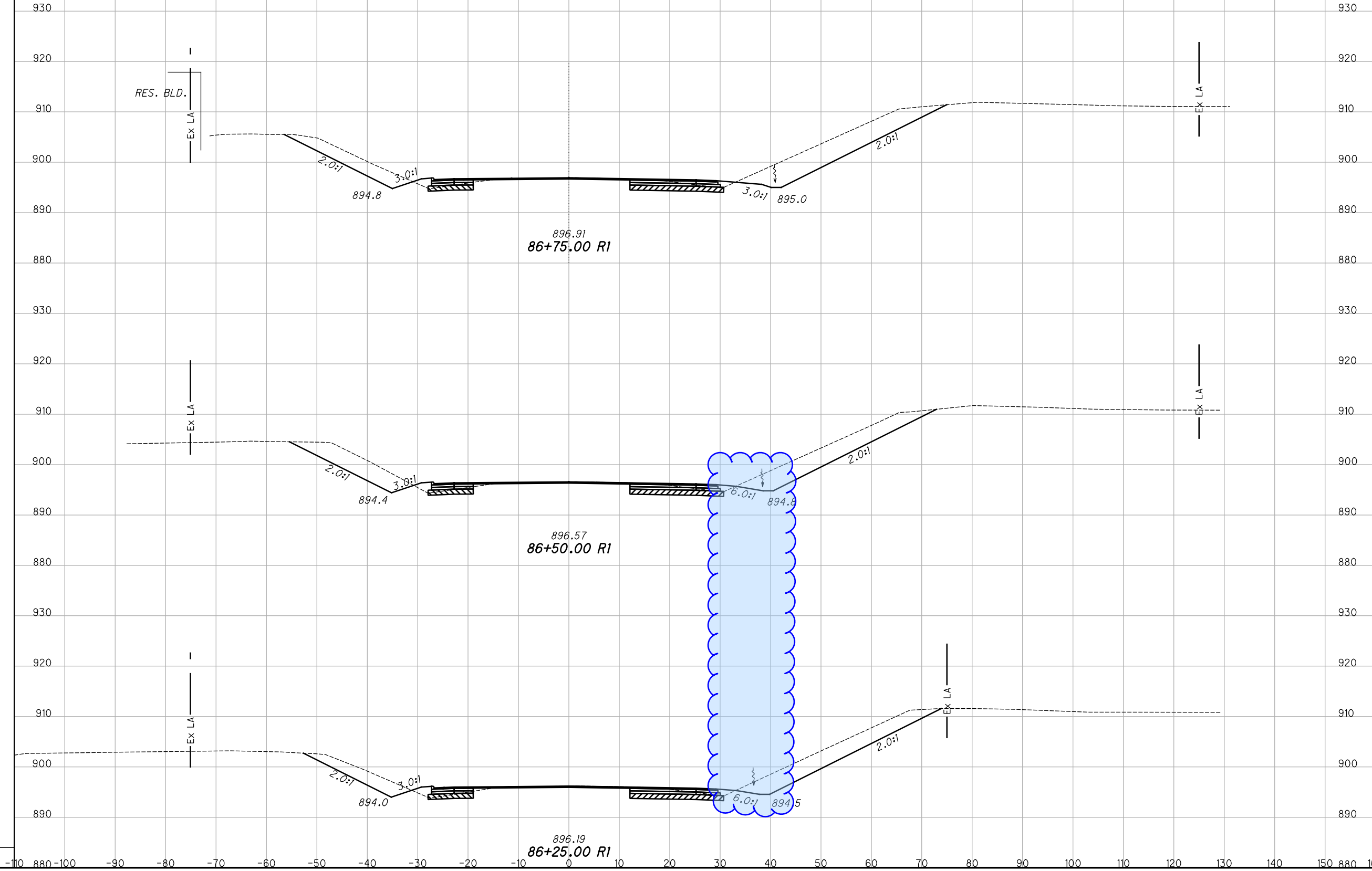
42
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42.2 1/2/2020 10:28:02 AM ananders

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	JDO

 ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP



252	6	108	9	124	9
		107	8		
			116		8

CROSS SECTIONS - U.S. 42
STA. 86+25.00 R1 TO STA. 86+75.00 R1


GRE-42-3.15

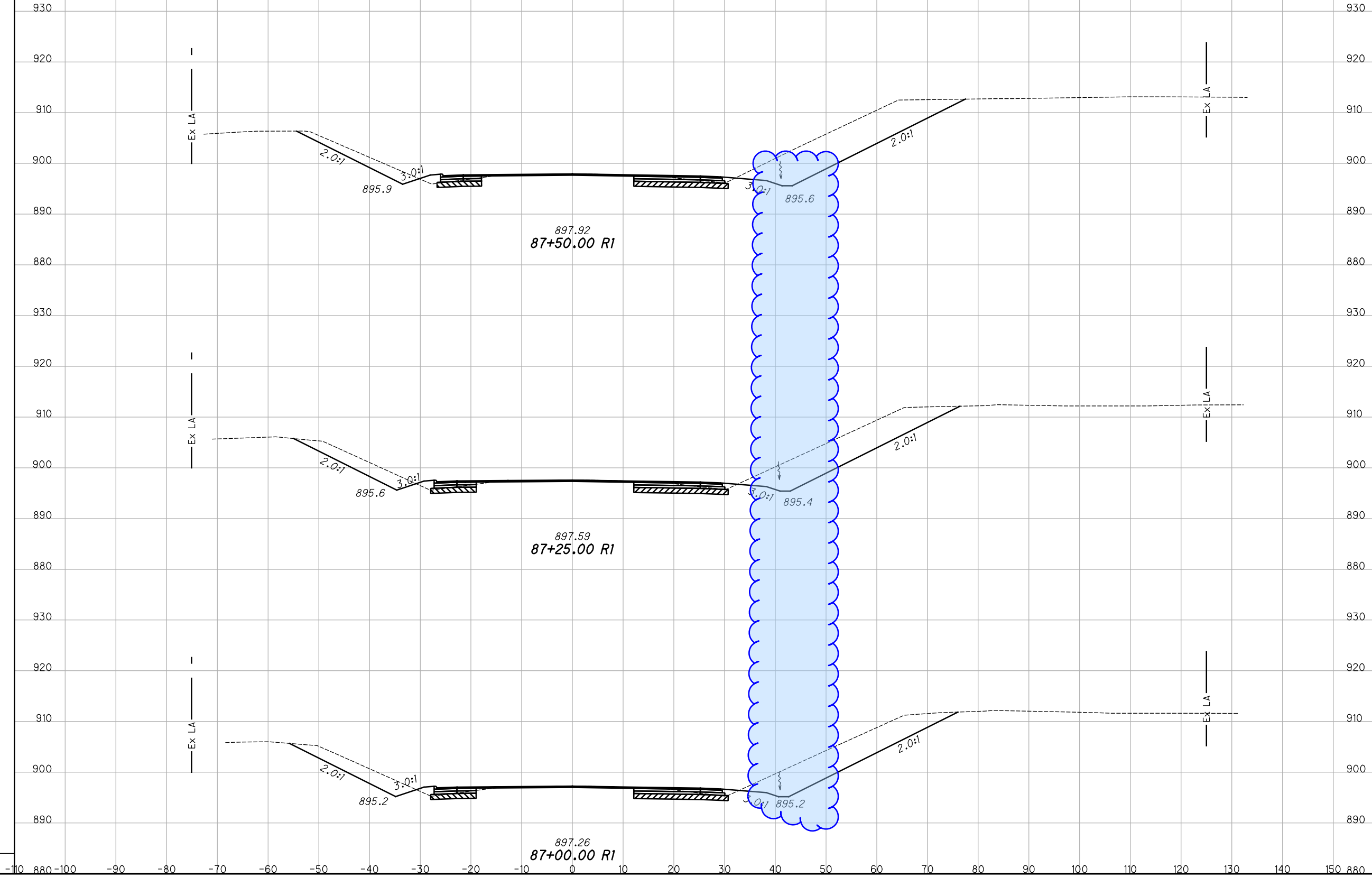
43
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42.2 1/2/2020 10:28:02 AM ananders

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	JDO

 ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP



END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	JDO
353	1975	306	6		
308	6	274	6		
284	6	248	6		

CROSS SECTIONS - U.S. 42
STA. 87+00.00 R1 TO STA. 87+50.00 R1

GRE-42-3.15

44
73

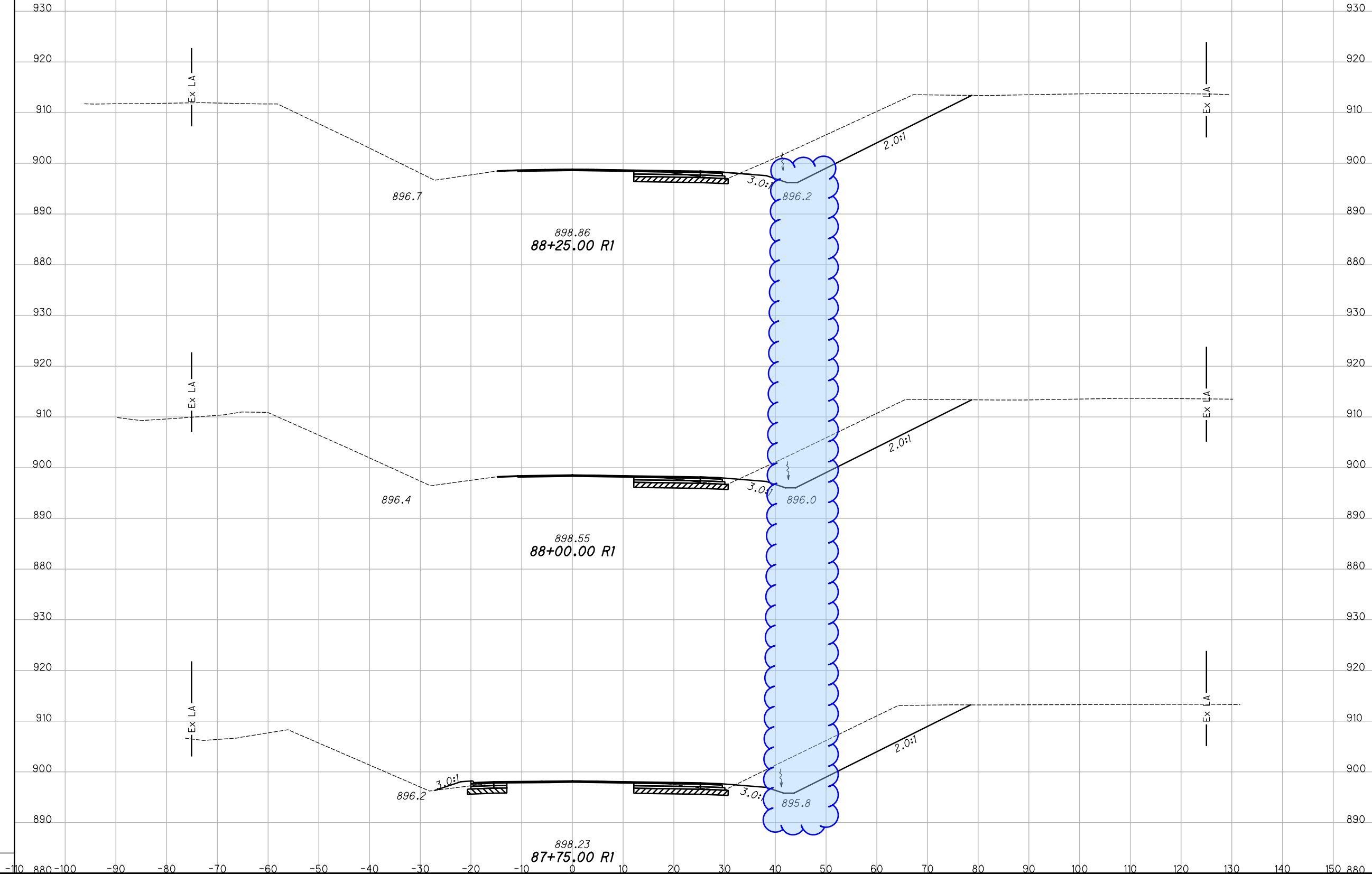
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SEEDING

END WIDTH	SO. YDS.

END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
345	8				
348	7				
357	8				
329	7				

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP



CROSS SECTIONS - U.S. 42
STA. 87+75.00 R1 TO STA. 88+25.00 R1


GRE-42-3.15

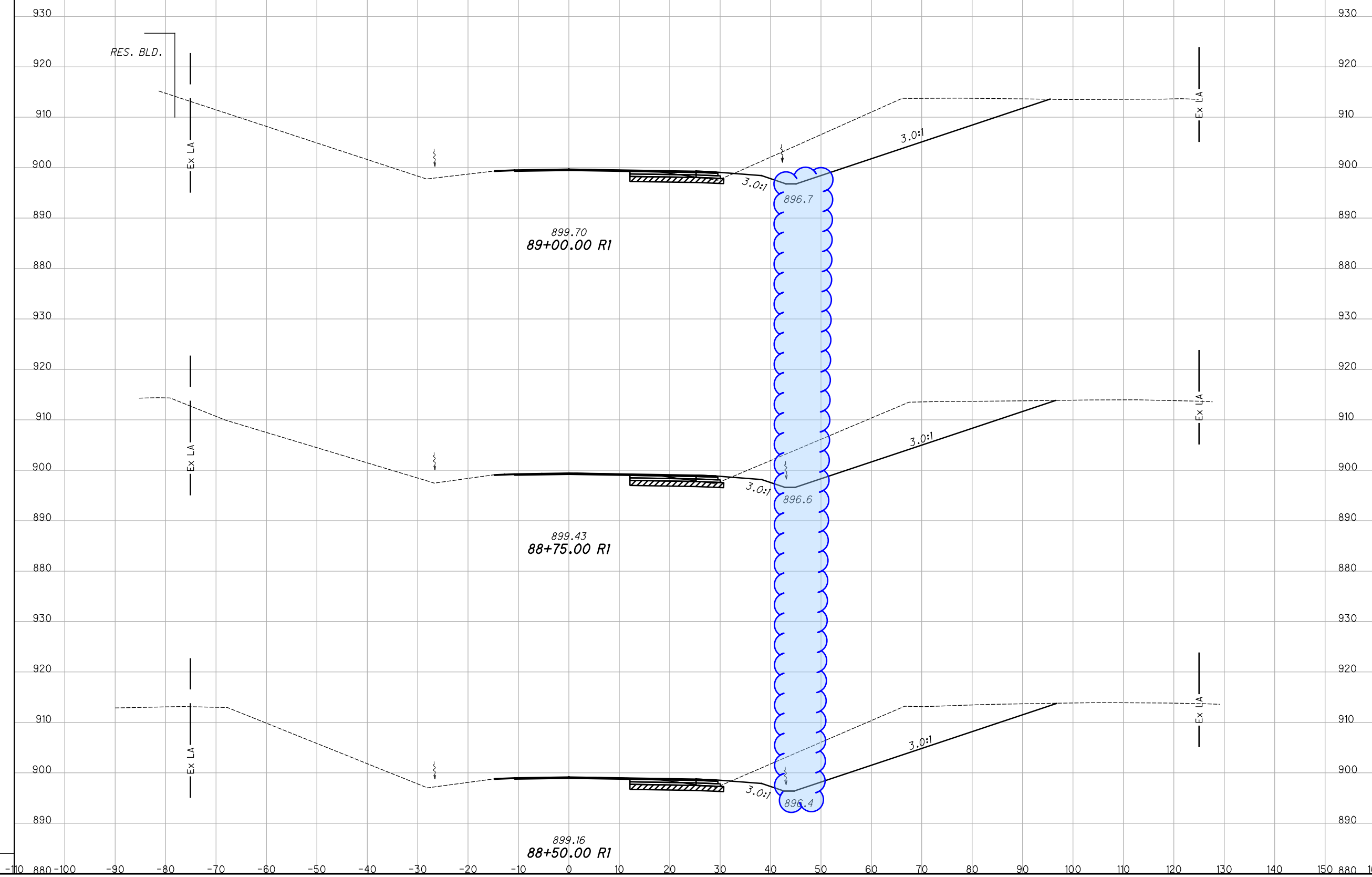
45
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42.2 1/2/2020 10:28:02 AM ananders

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED

 ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP



END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED
346	8	317	7		
338	7	318	7		
349	7	321	7		

CROSS SECTIONS - U.S. 42
STA. 88+50.00 R1 TO STA. 89+00.00 R1

GRE-42-3.15

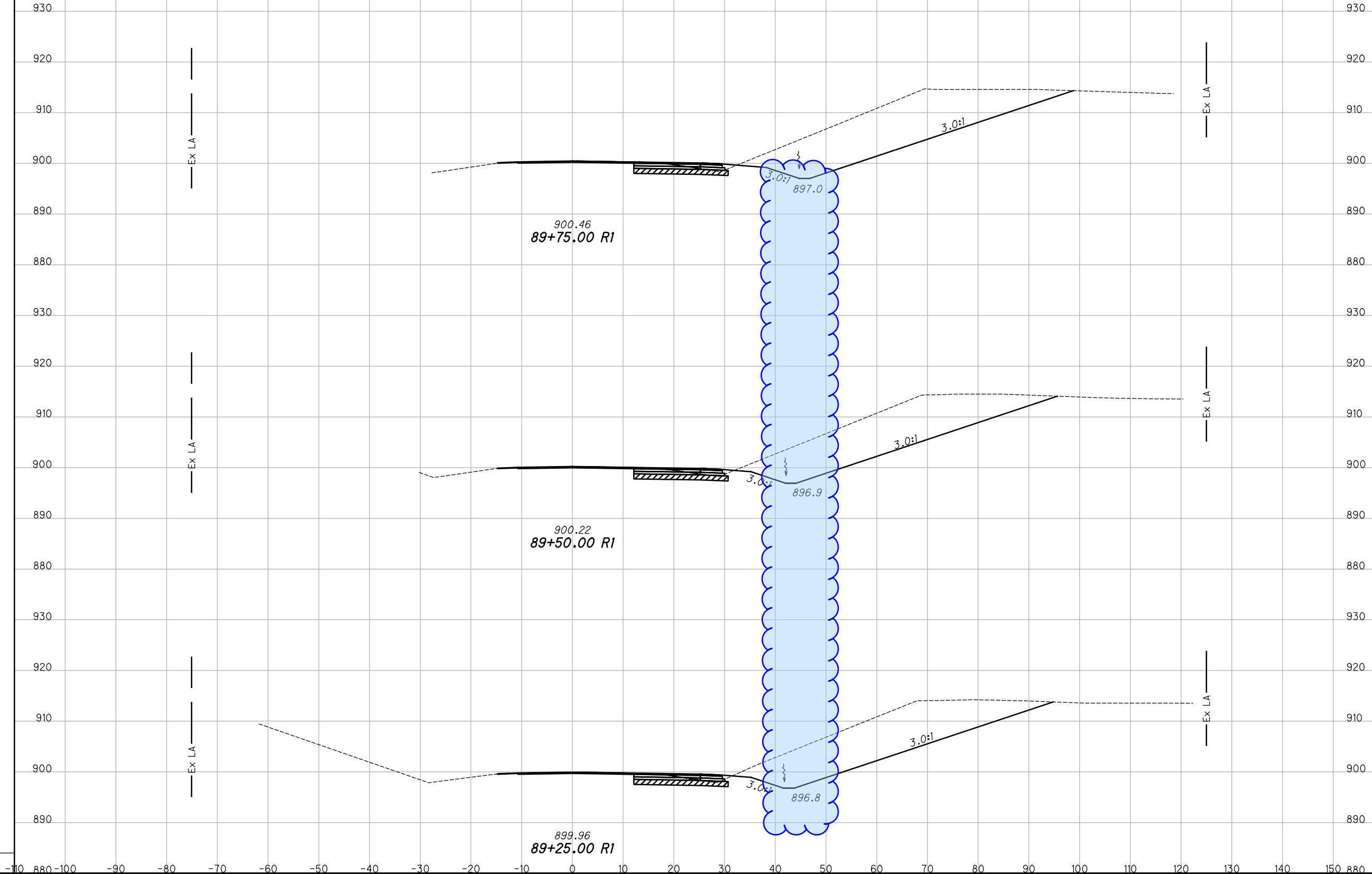
I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42_2 1/2/2020 10:28:03 AM ahenders

SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED ABH	CHECKED JDO
CUT	FILL	CUT	FILL		
368	7	332	6		
350	6	327	6		
356	7	325	7		

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP



CROSS SECTIONS - U.S. 42
STA. 89+25.00 R1 TO STA. 89+75.00 R1

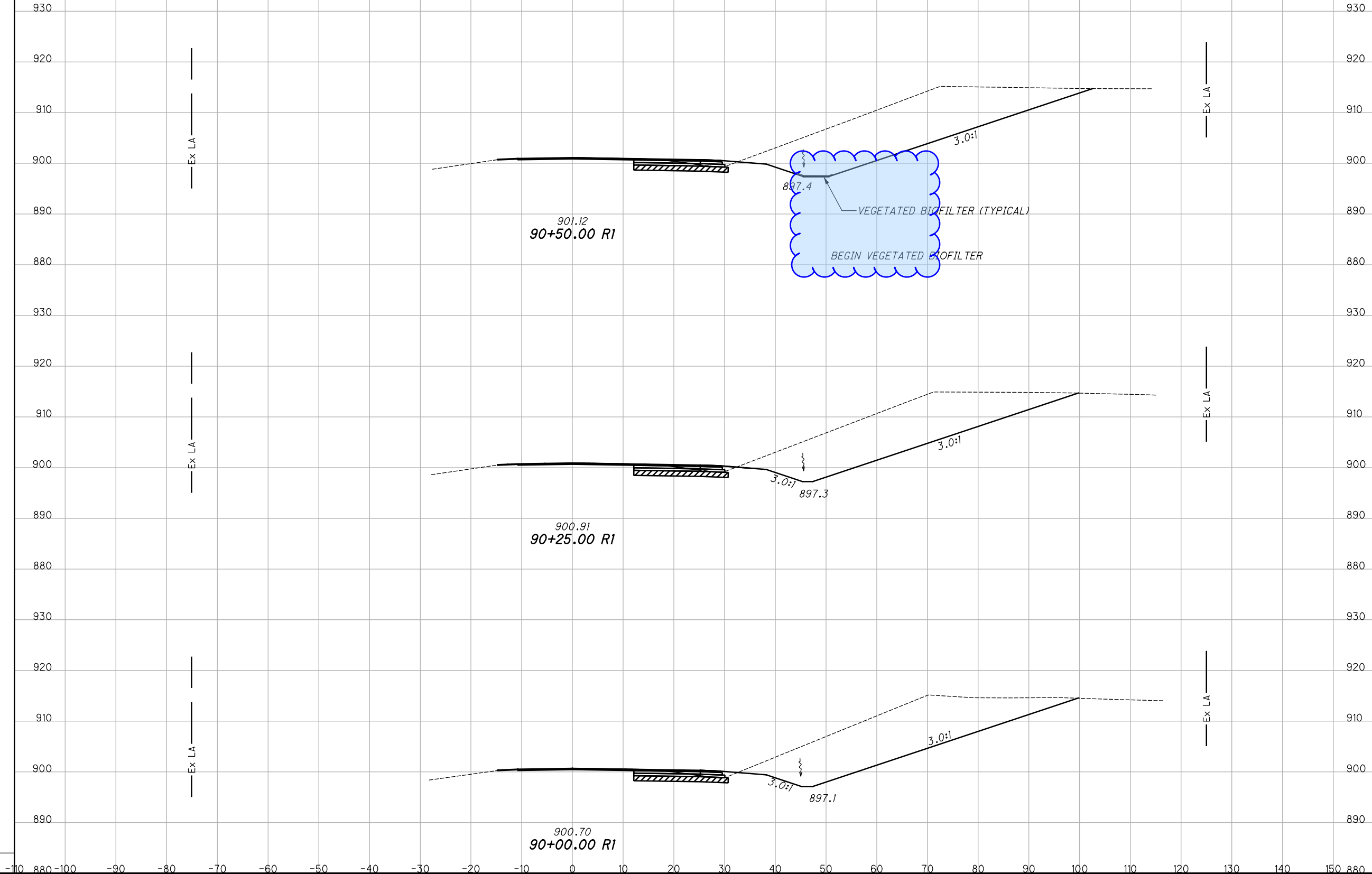
GRE-42-3.15

47
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42_2 1/2/2020 10:28:03 AM ahenders

SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED
ABH
CHECKED
JDO



END AREA	VOLUME
CUT	FILL
466	7
426	6
446	7

VOLUME	CUT	FILL
413	6	6
404	6	6
377	7	7

CROSS SECTIONS - U.S. 42
STA. 90+00.00 R1 TO STA. 90+50.00 R1

GRE-42-3.15

48
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42_2 1/2/2020 10:28:03 AM ahenders

SEEDING

END WIDTH	SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL

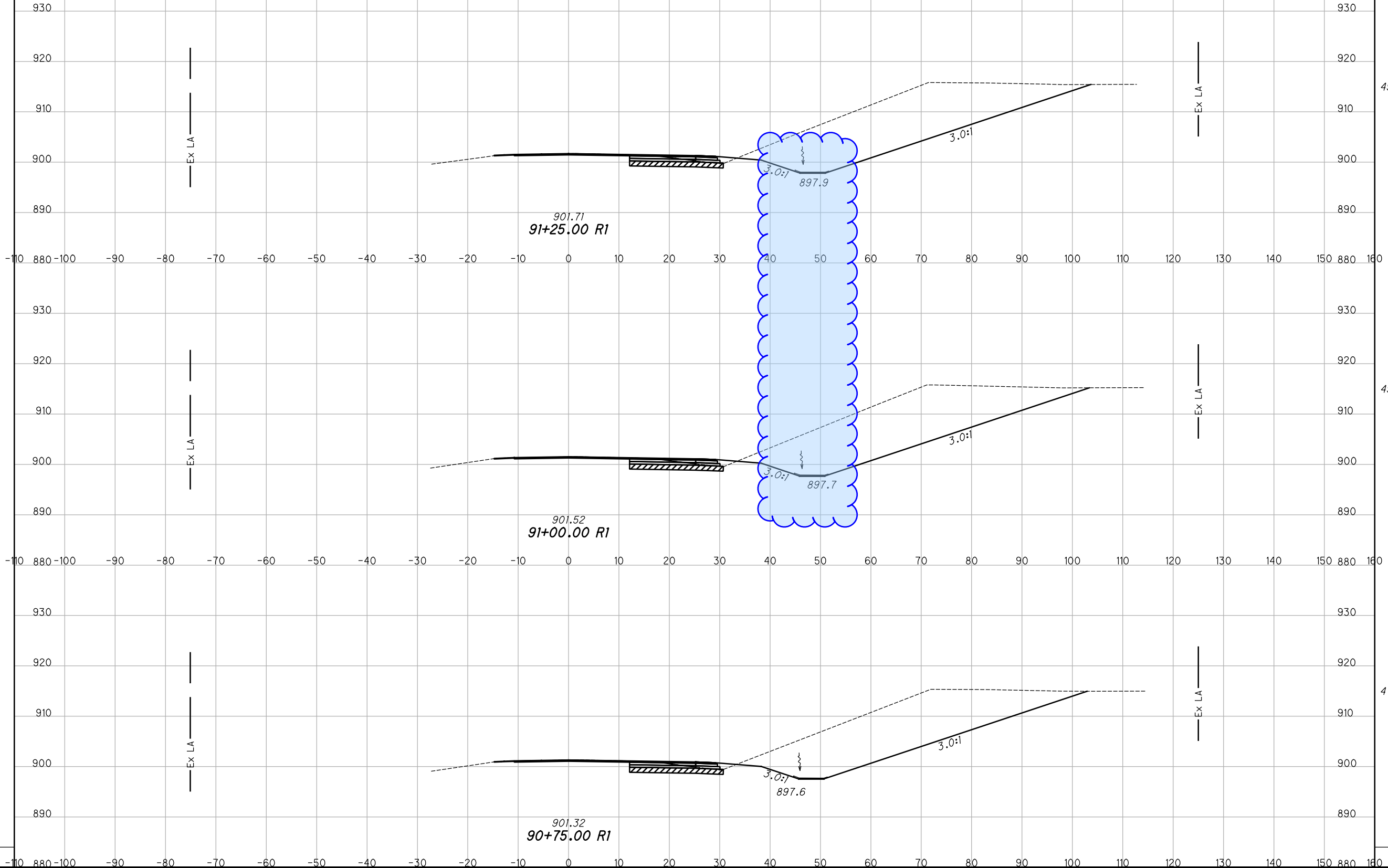
END AREA		VOLUME	
CUT	FILL	CUT	FILL
494	8	458	7
496	8	447	7
470	8	433	7

CROSS SECTIONS - U.S. 42
STA. 90+75.00 R1 TO STA. 91+25.00 R1

GRE-42-3.15

49
73

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

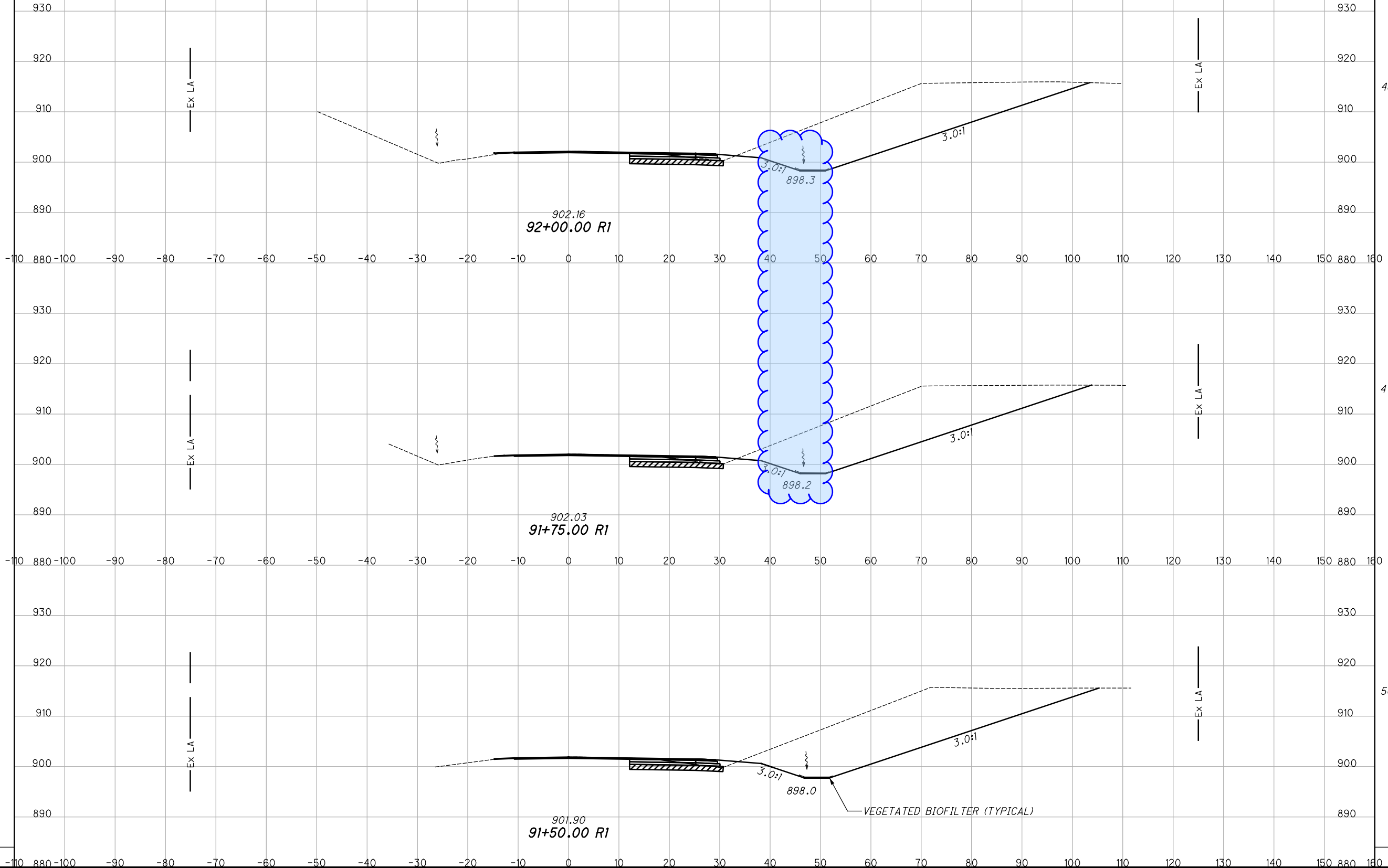


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SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED
ABH
CHECKED
JDO

ITEM 206 - CEMENT STABILIZED
SUBGRADE, 12" DEEP



END AREA	VOLUME
CUT	FILL
481	7
475	8
502	9
443	7
452	8
461	8

CROSS SECTIONS - U.S. 42
STA. 91+50.00 R1 TO STA. 92+00.00 R1

GRE-42-3.15

50
73

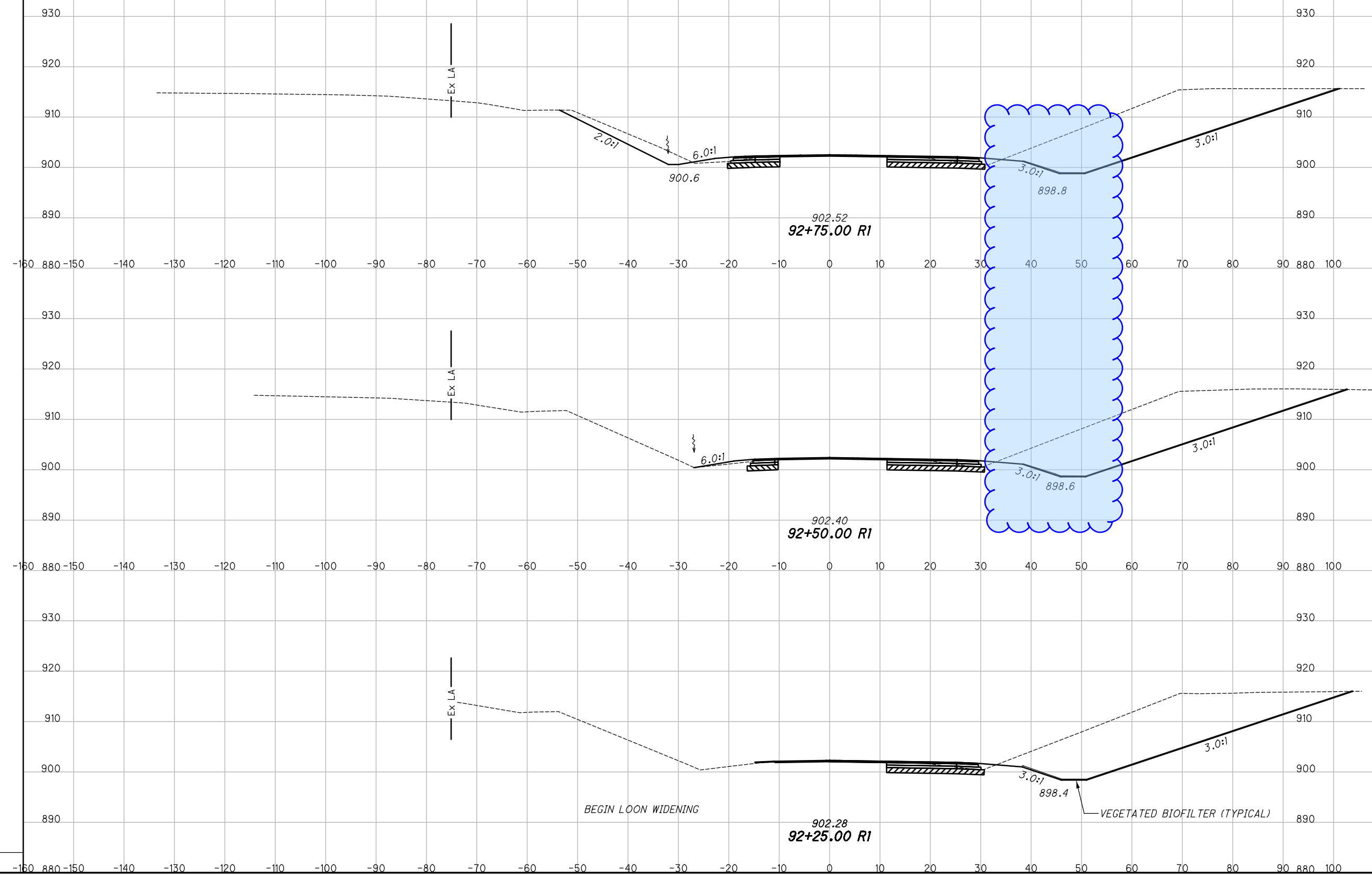
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SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED
ABH
CHECKED
JDO

ITEM 206 - CEMENT STABILIZED
SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 150' TO 193' FROM CENTERLINE
UNLESS OTHERWISE SHOWN



Station	End Area Cut	End Area Fill	Volume Cut	Volume Fill	Other
92+75.00 R1	472	0	443	7	8 Ex LA
92+50.00 R1	485	0	444	7	6 Ex LA
92+25.00 R1	474	10	0	0	10 Ex LA

CROSS SECTIONS - U.S. 42
STA. 92+25.00 R1 TO STA. 92+75.00 R1

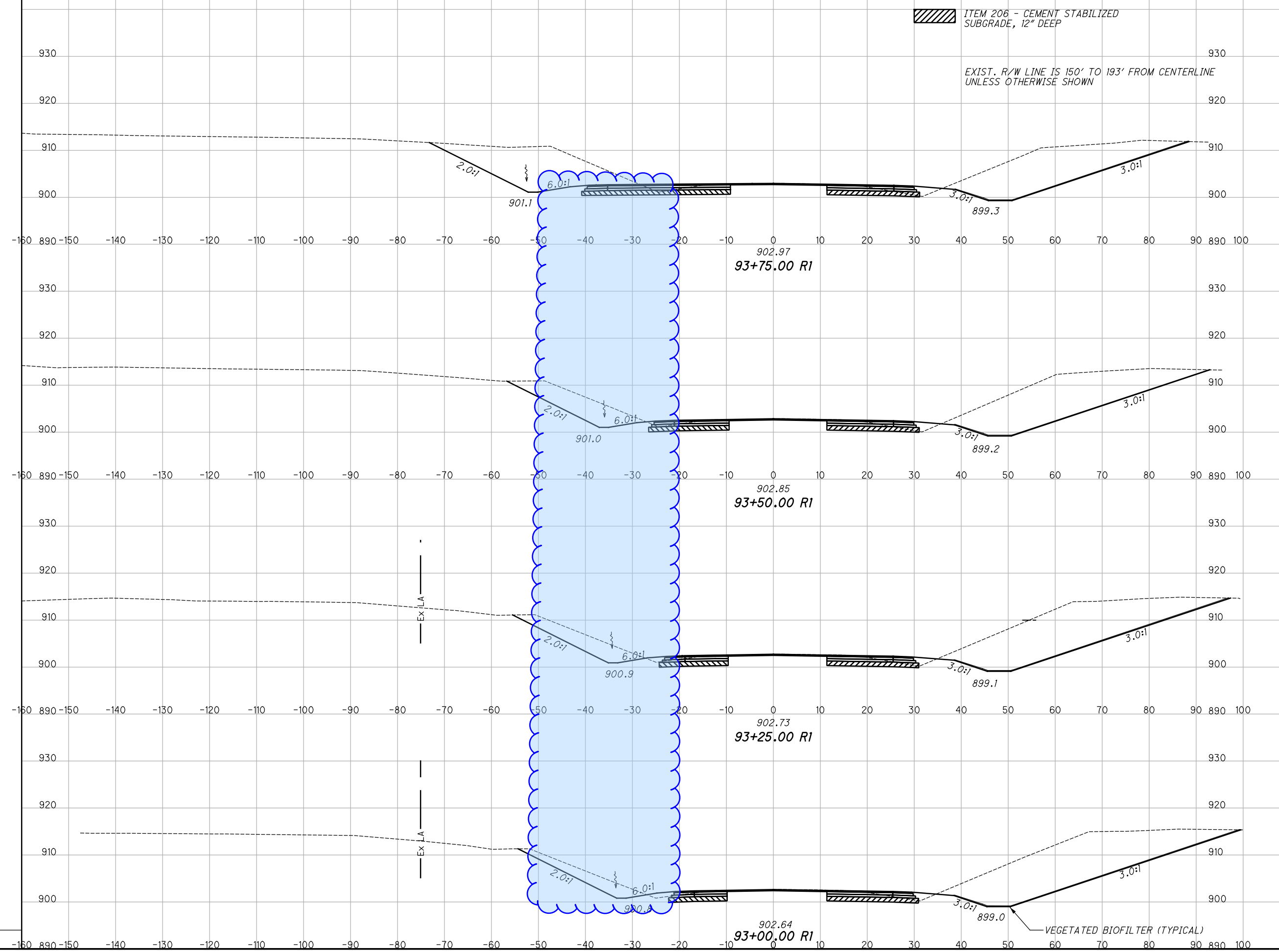
GRE-42-3.15

51
73

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED



END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED
518	9	438	9		
428	9	411	9		
459	10	427	9		
463	9	433	9		


CROSS SECTIONS - U.S. 42
STA. 93+00.00 R1 TO STA. 93+75.00 R1

GRE-42-3.15

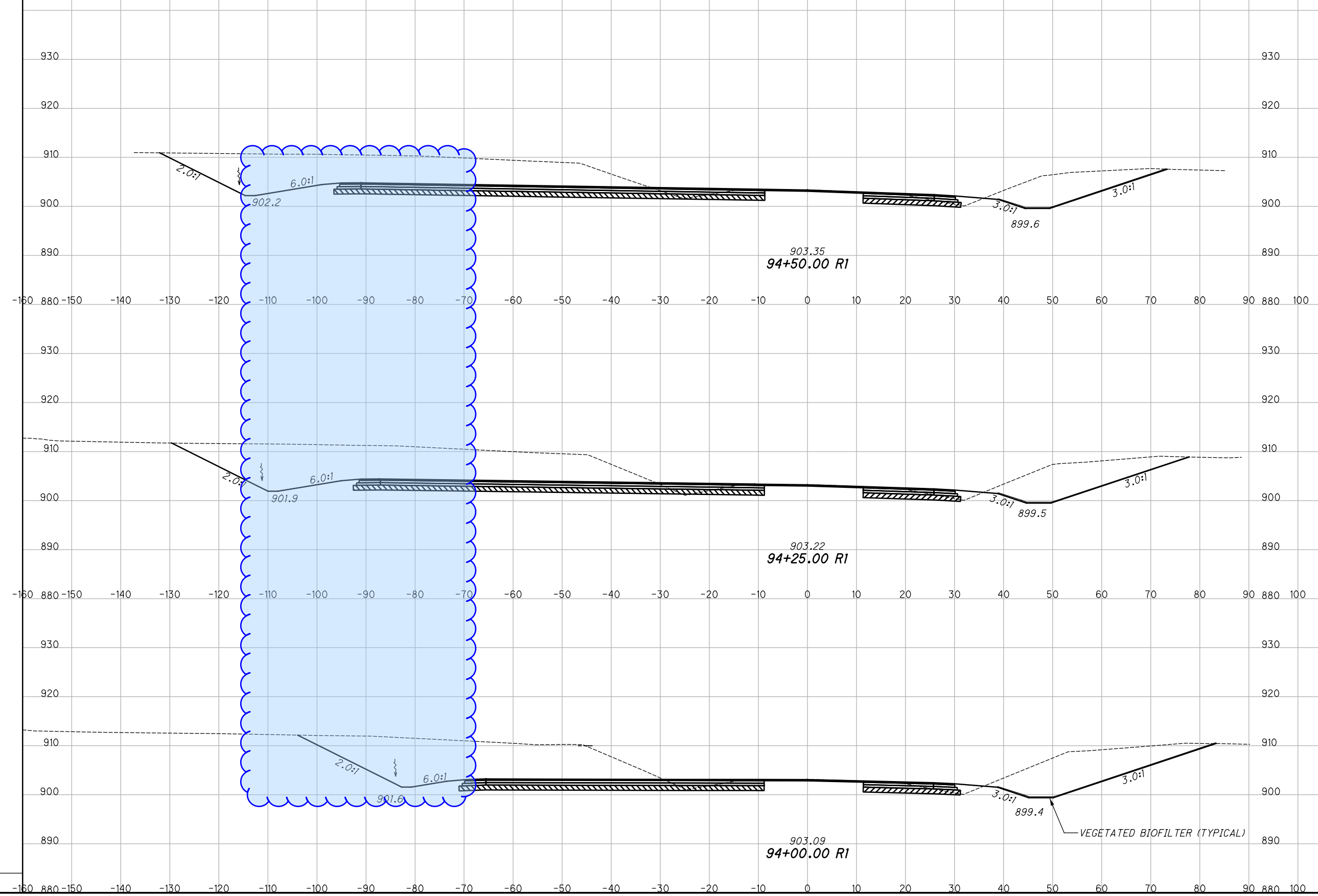
52
73

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED

 ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 150' TO 193' FROM CENTERLINE UNLESS OTHERWISE SHOWN



796	15	753	13	CROSS SECTIONS - U.S. 42 STA. 94+00.00 R1 TO STA. 94+50.00 R1
830	14	725	12	
736	12	581	10	

GRE-42-3.15

53
73

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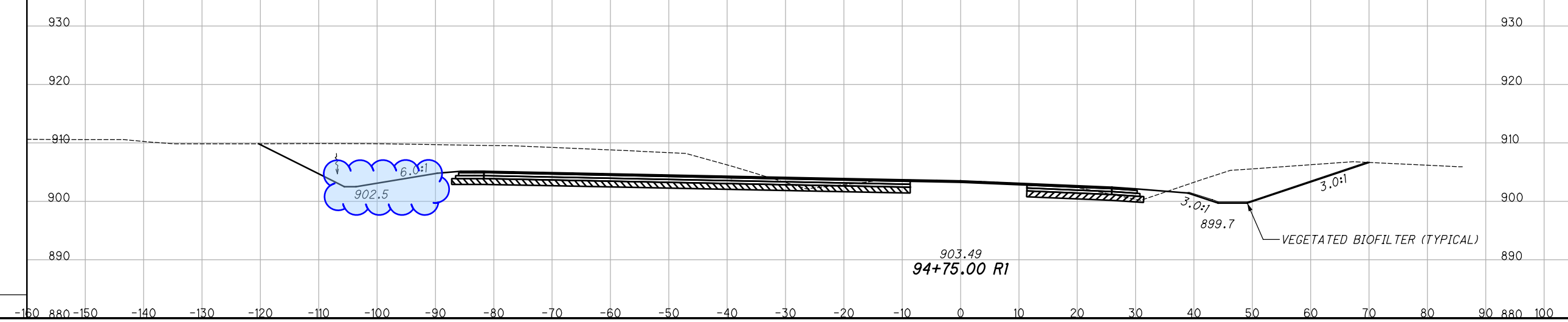
SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	ABH	JDO

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 150' TO 193' FROM CENTERLINE UNLESS OTHERWISE SHOWN



562 15

629 14

CROSS SECTIONS - U.S. 42
STA. 94+75.00 R1 TO STA. 95+00.00 R1

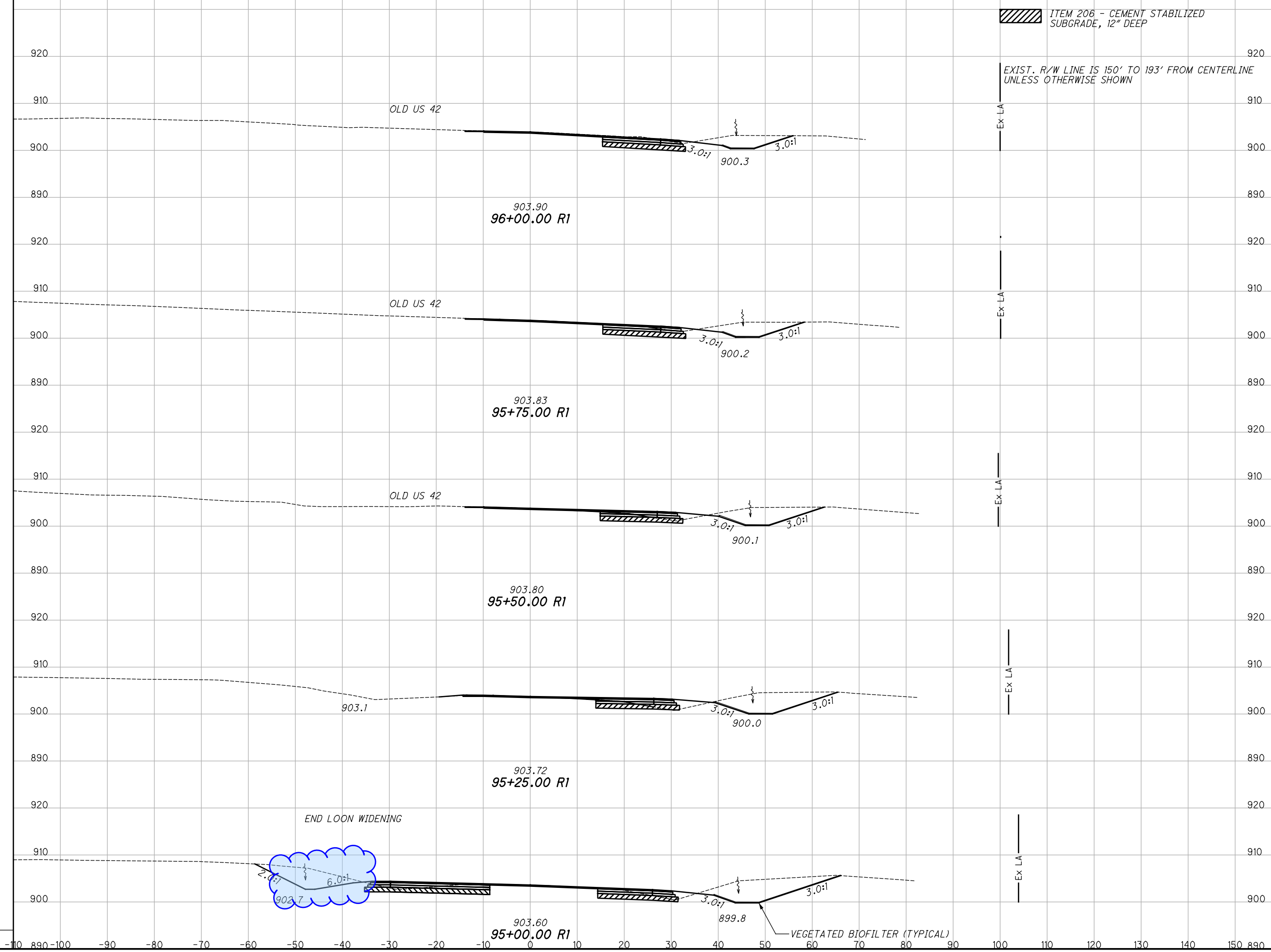
GRE-42-3.15

54
73

I:\ProjectData\GRE-US42-3.16\Design\Roadway\Sheets\08640_XS008.dgn CLX_42.2 1/2/2020 10:28:04 AM ahenders

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED



ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 150' TO 193' FROM CENTERLINE UNLESS OTHERWISE SHOWN

END LOON WIDENING

VEGETATED BIOFILTER (TYPICAL)

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	CHECKED
48	2	45	3		
49	5	50	10		
59	18	62	16		
74	18	120	16		
185	9	188	9		

CROSS SECTIONS
STA. 95+00.00 R1 TO STA. 96+00.00 R1

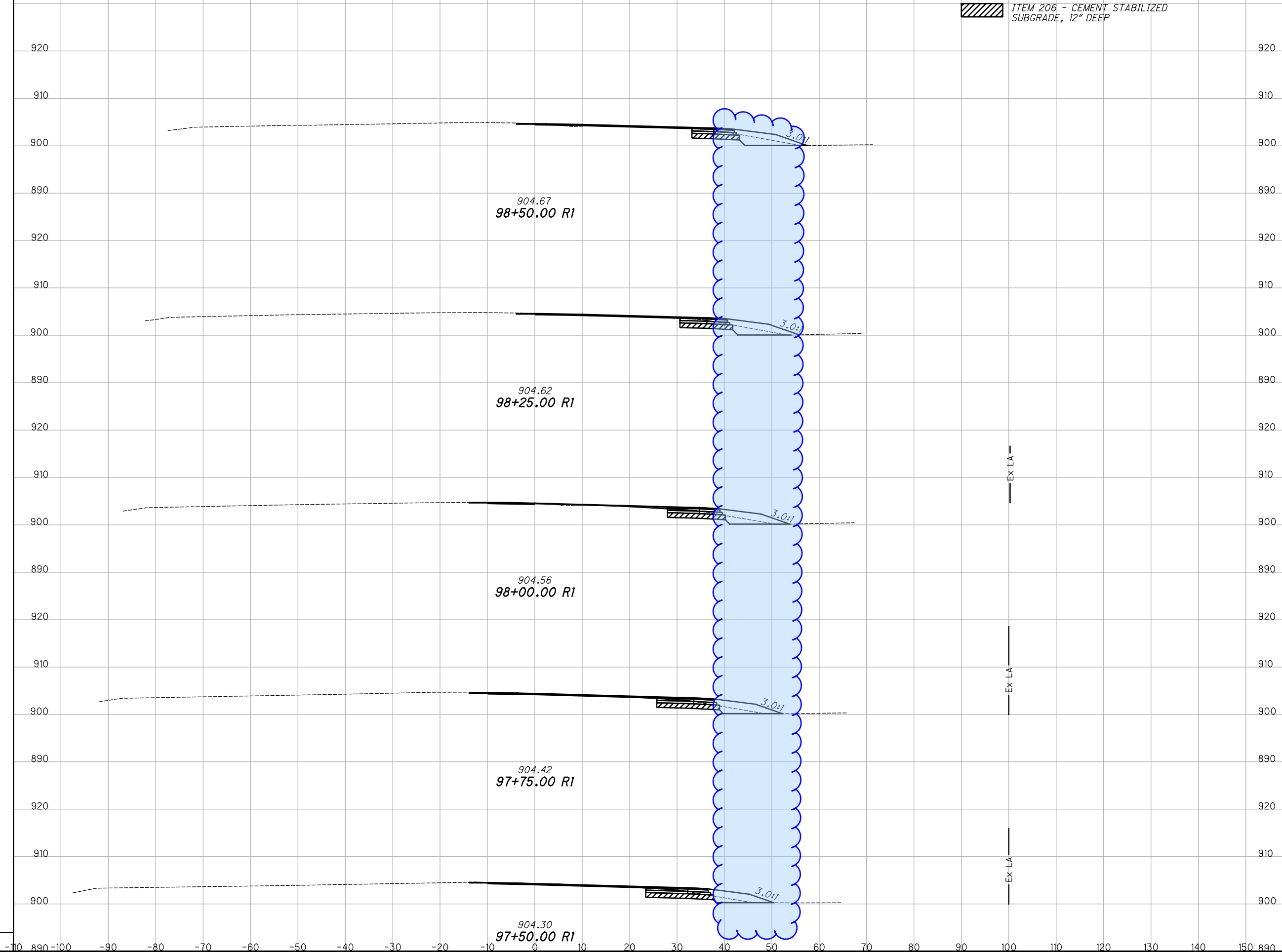
GRE-42-03.15

55
73

I:\ProjectData\GRE\08640_GRE-US42-3.16\Design\Roadway\Sheets\08640_X5008.dgn CLX_42.2 1/2/2020 10:28:04 AM ananders

SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED
ABH
CHECKED
JDO



ITEM 206 - CEMENT STABILIZED
SUBGRADE, 12" DEEP

CROSS SECTIONS
STA. 97+50.00 R1 TO STA. 98+50.00 R1

GRE-42-03.15

57
73

ELEVATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
920	7	11		
910				
900			6	10
890				
920	7	12		
910				
900			7	11
890				
920	8	13		
910				
900			10	14
890				
920	14	18		
910				
900			13	11
890				
920	13	4		
910				
900			11	6

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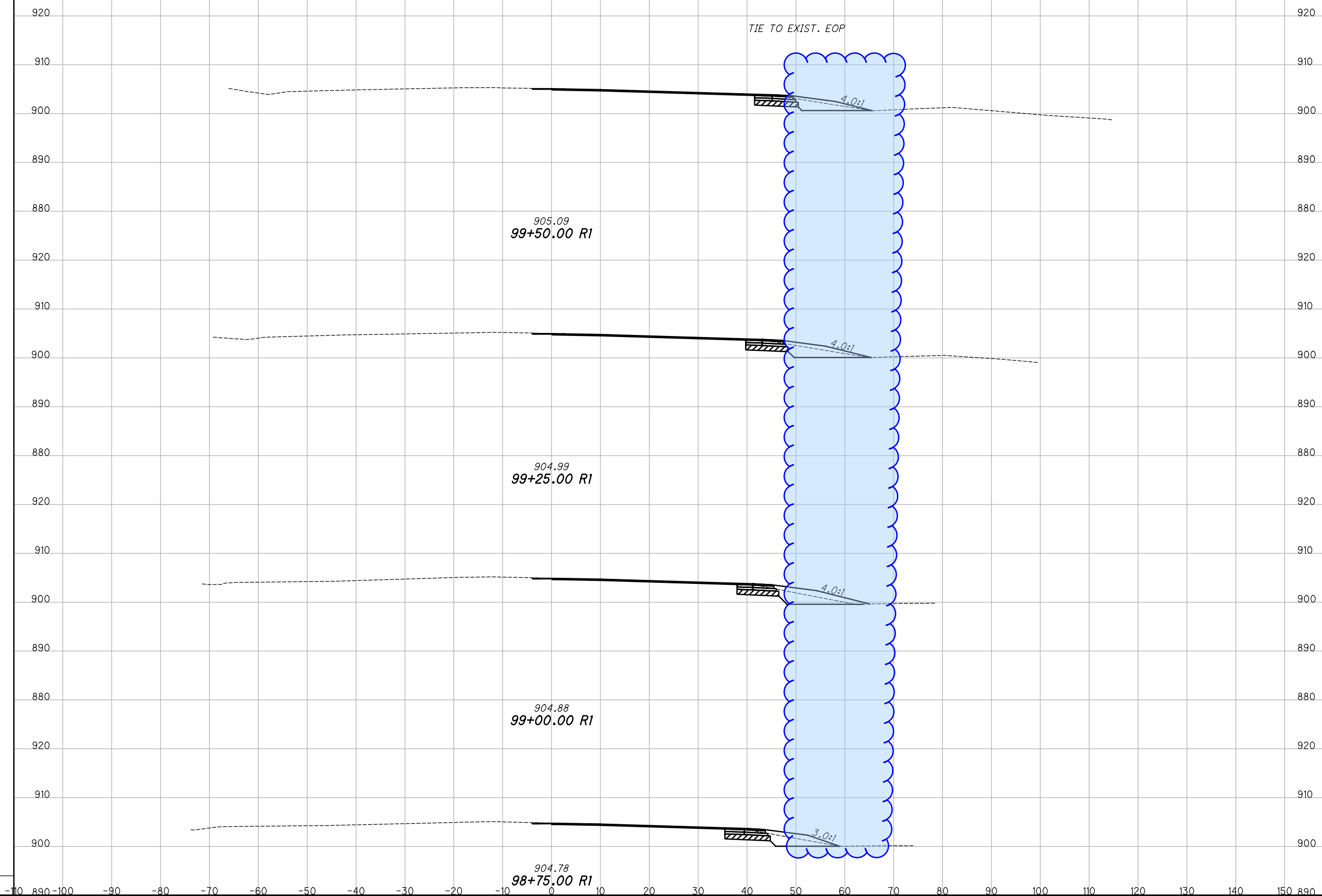
SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	ABH	JDO
8	4				
		7	4		
7	6				
		6	7		
7	9				
		7	7		
8	8				
		7	8		

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

TIE TO EXIST. EOP



905.09
99+50.00 R1

904.99
99+25.00 R1

904.88
99+00.00 R1

904.78
98+75.00 R1

4.0:1

4.0:1

4.0:1

3.0:1

CROSS SECTIONS
STA. 98+75.00 R1 TO STA. 99+50.00 R1


GRE-42-03.15

58
73

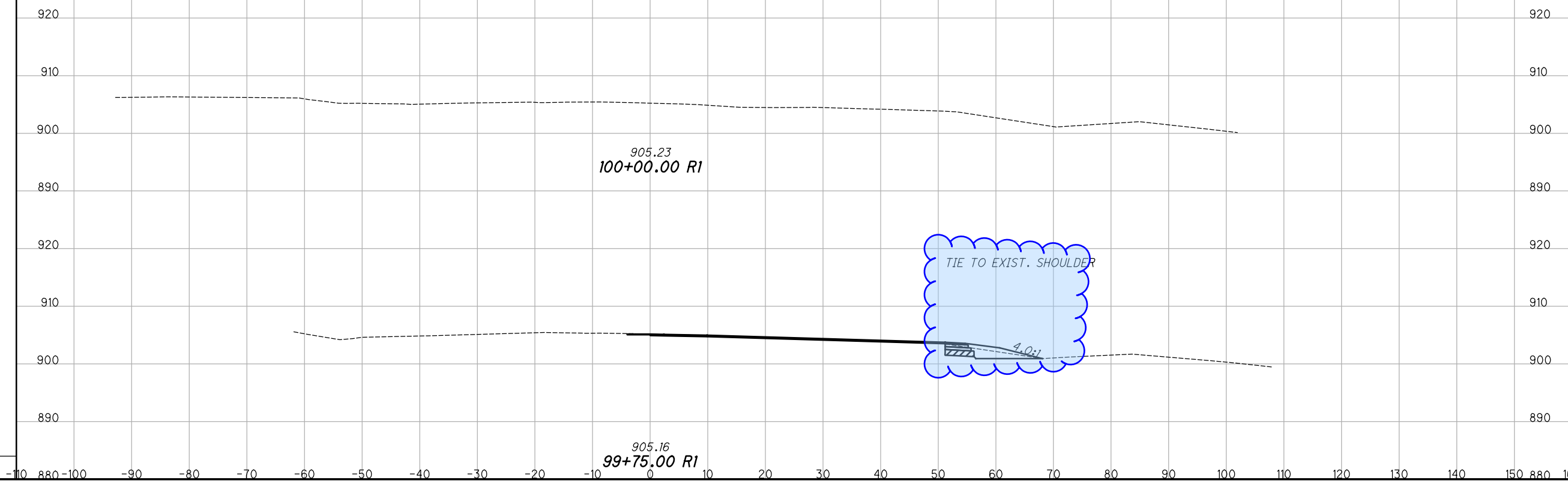
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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	ABH	JDO

 ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

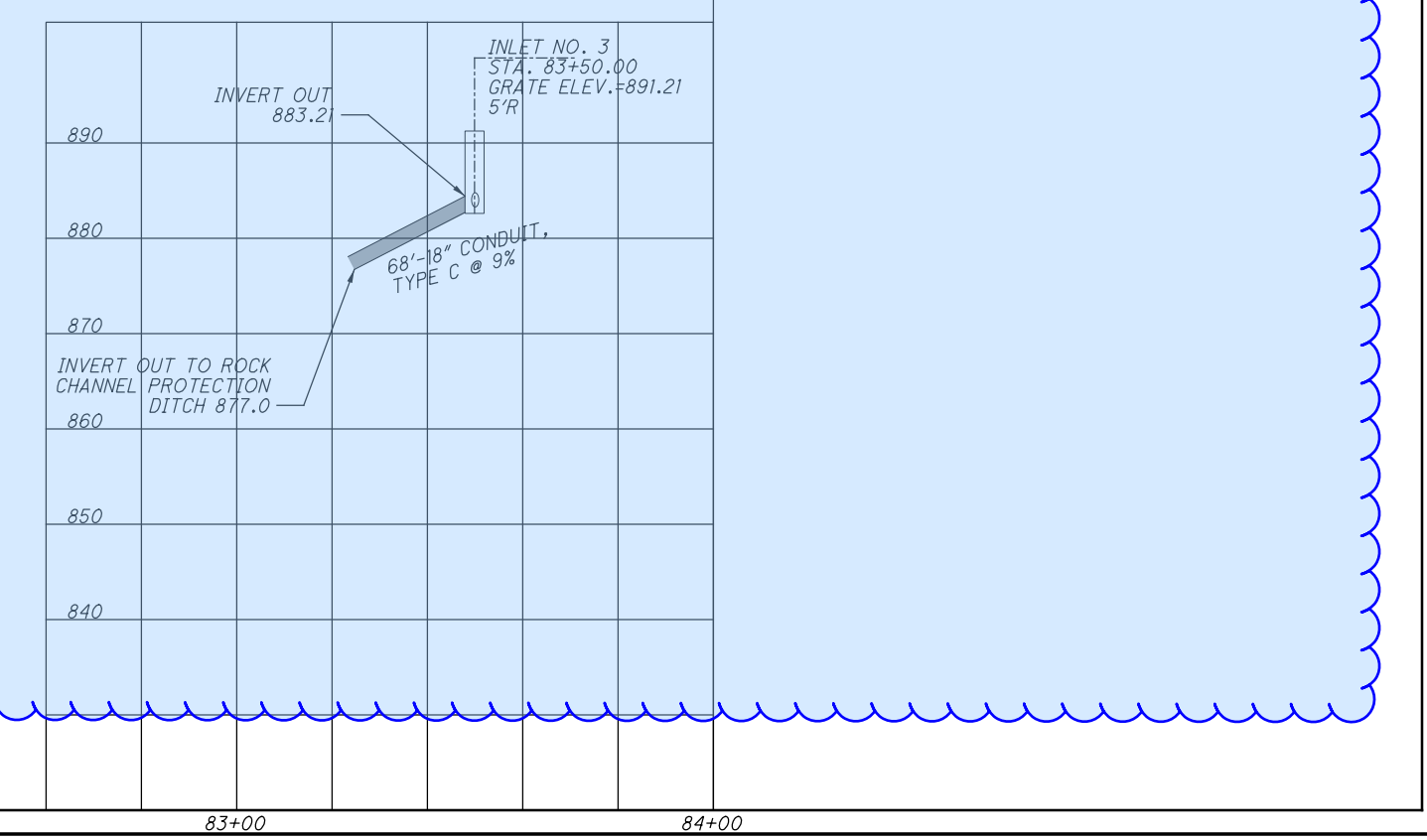
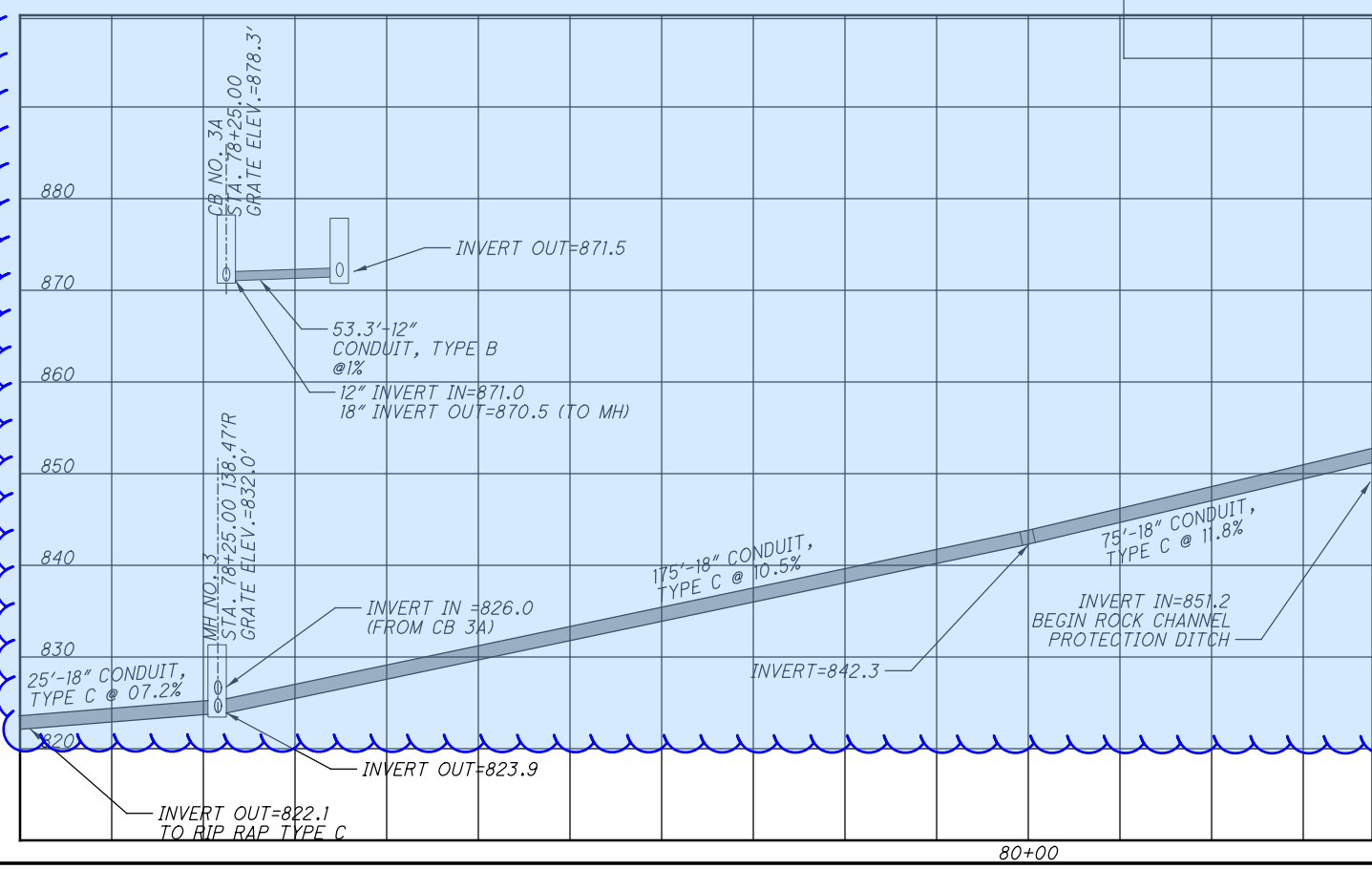
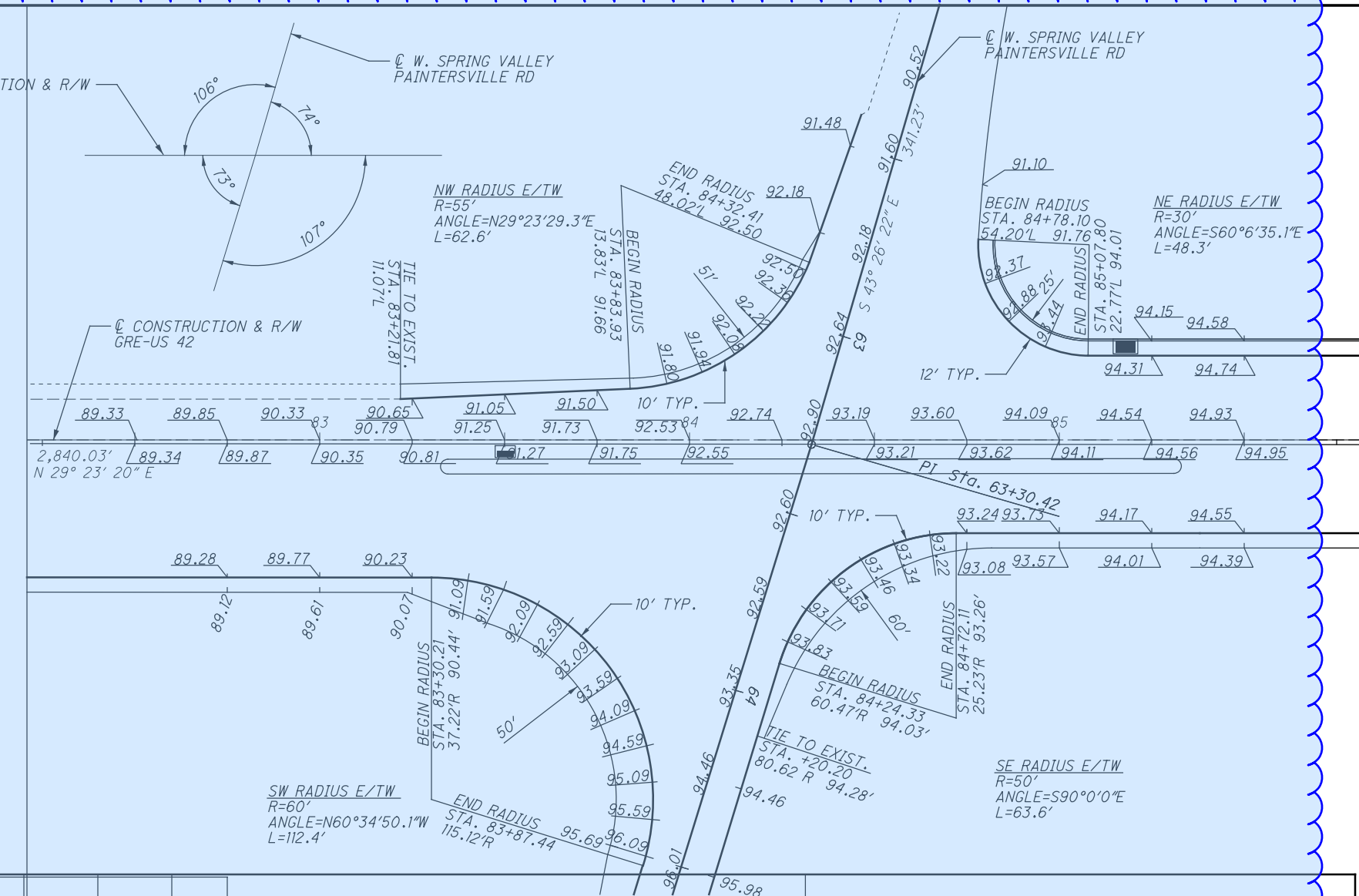
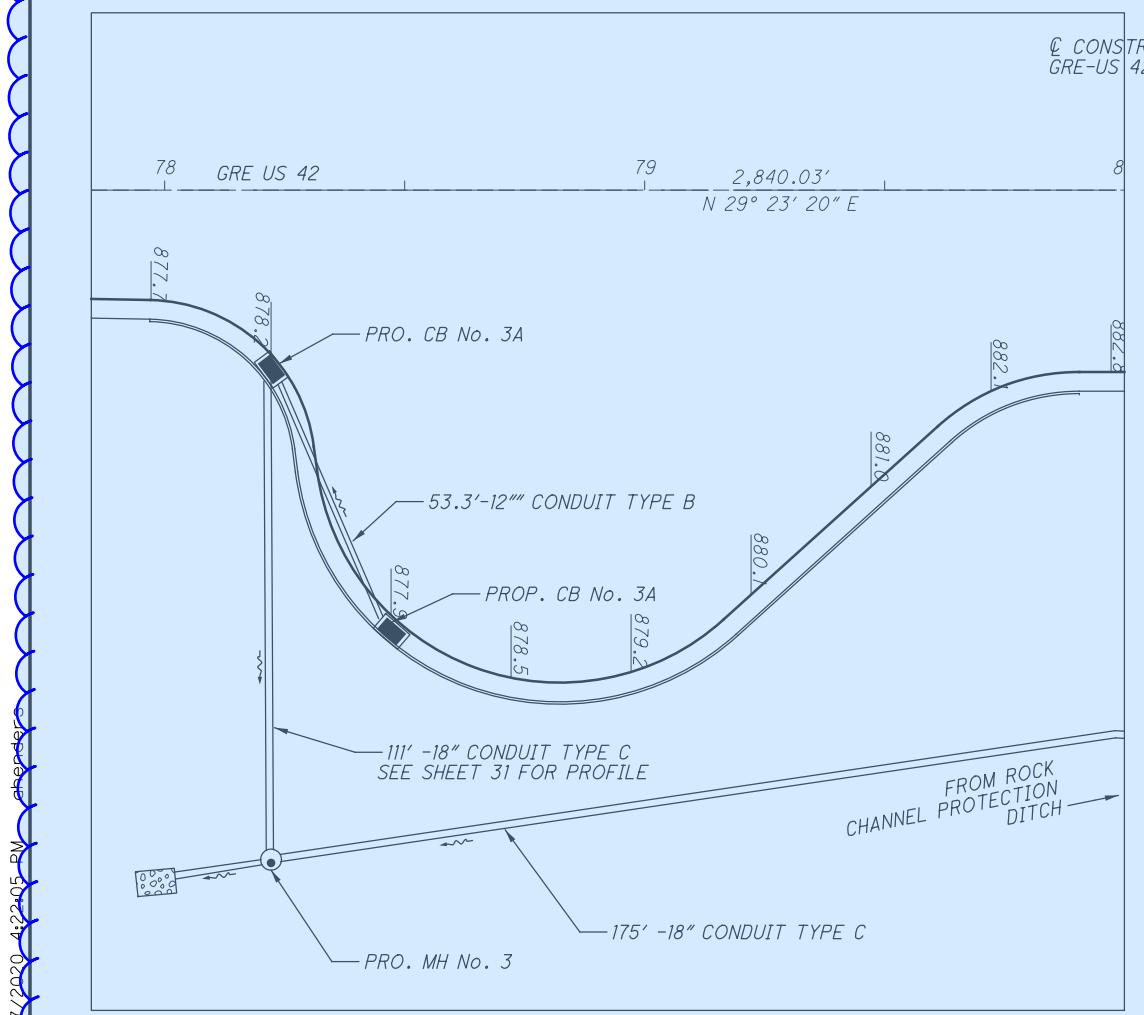
EMBANKMENT = 18,094 CY
EXCAVATION = 18,118 CY



CROSS SECTIONS
STA. 99+75.00 R1 TO STA. 100+00.00 R1

GRE-42-03.15

59
73

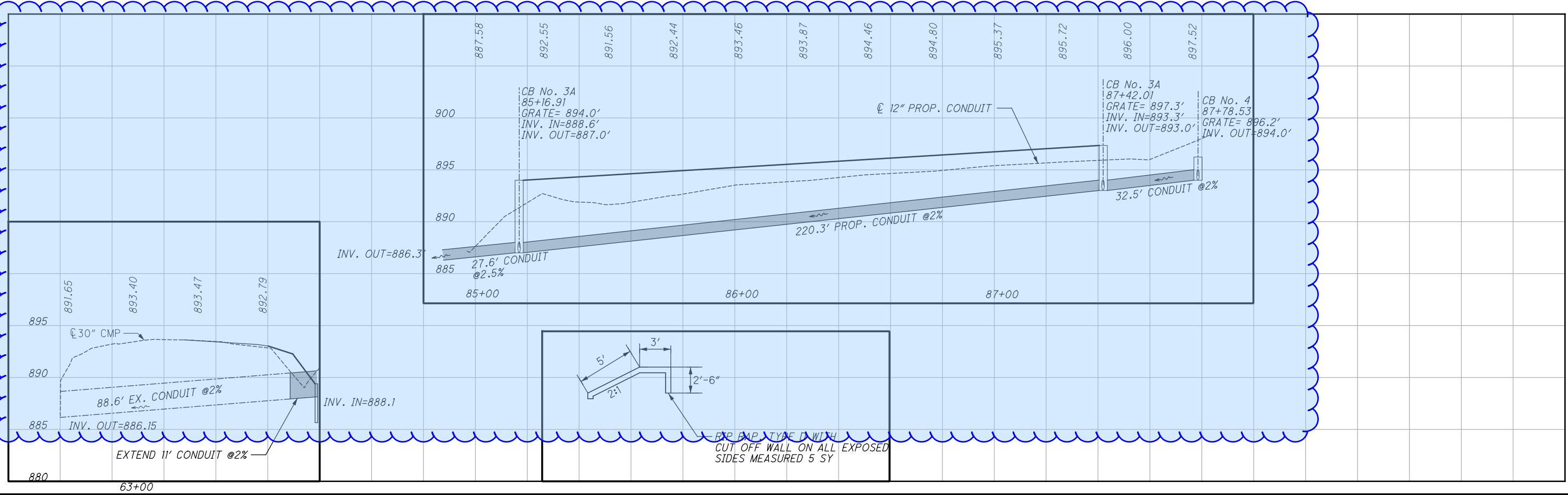
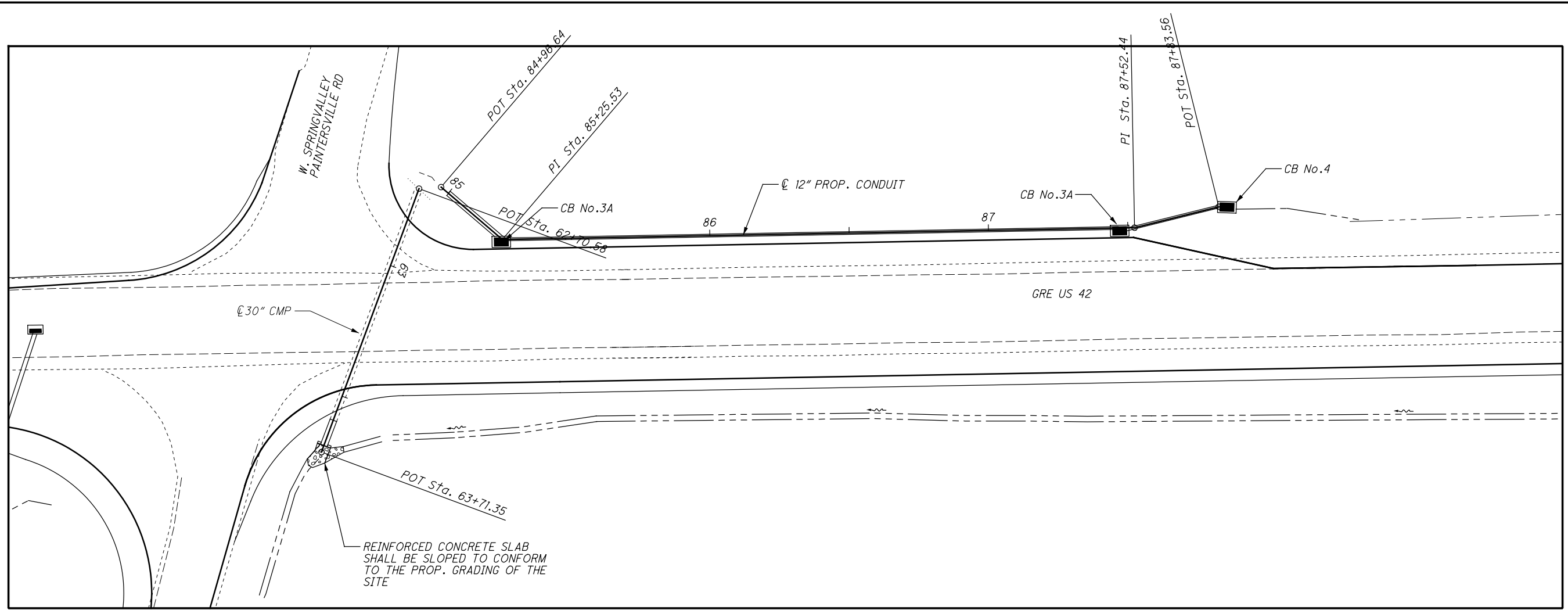


CALCULATED
ABH
CHECKED
JDO

**DRAINAGE DETAIL
INTERSECTION DETAIL**

I:\ProjectData\GRE\08640-GRE-US42-3.15\Design\Roadway\Sheets\08640.dwg Sheet 1/1/2020 4:22:05 PM

I:\ProjectData\GRE-US42-3.16\Design\Drainage\Sheets\08640_DP00.dgn Sheet 1/2/2020 10:28:17 AM ahenders



DRAINAGE DETAIL

GRE - 42 - 3.15

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	644	644	644	644	644	644	644	621	621	644	620	620	621	202
			CENTERLINE	EDGE LINE 6"		EDGE LINE, 6"	CHANNELIZING LINE, 8"	STOP LINE, 24"	LANE ARROW	LANE LINE	RPM (YELLOW-YELLOW)	RPM (WHITE)	TRANSVERSE LINE	DELINEATOR, MISC. TYPE C WHITE	DELINEATOR, MISC. SURFACE MOUNTED, YELLOW	RAISED PAVEMENT MARKER REMOVED	REMOVE PAVEMENT MARKING		
			FROM	TO		MILE	MILE	MILE	FT	FT	EACH	MILE	EA	EA	FT	EA	EA	EA	EA
66	ELW-1	GRE US 42	72+50.00	84+05.58	L			0.22											
66	ELW-2	GRE US 42	72+50.00	83+95.60	R			0.22											
68	ELW-3	GRE US 42	84+69.95	95+62.70	L			0.21											
68	ELW-4	GRE US 42	84+77.10	99+66.63	R			0.28											
71	ELW-5	GRE US 42	96+05.44	99+66.63	L			0.07											
66	CL-1	GRE US 42	72+50.00	78+52.00	R	0.11						16							
66	CL-2	GRE US 42	72+97.25	78+30.61	R	0.10						14							
67	CL-3	GRE US 42	79+00.00	83+29.14	R	0.08						11							
68	CL-4	GRE US 42	85+38.00	94+44.44	R	0.17						24							
68	CL-5	GRE US 42	85+38.00	91+10.76	R	0.11						15							
71	CL-6	GRE US 42	96+32.77	113+47.34	R	0.32						45							
71	CL-7	GRE US 42	96+32.77	100+00.00		0.07						10							
71	CL-8	GRE US 42	94+95.73	95+50.44		0.01						1							
68	ELY-1	GRE US 42	83+34.59	85+38.01	R		0.04												
68	ELY-2	GRE US 42	83+34.59	85+38.01	R		0.04												
67	CH-1	GRE US 42	80+74.15	83+34.47	R				260.32				7						
68	CH-2	GRE US 42	84+94.75	87+44.75	L				250.00				7						
70	CH-3	GRE US 42	91+60.86	95+50.44	R				389.58										
67	CH-4	GRE US 42	78+50.00	82+00.00	R				350.00										
67	CT-1	GRE US 42												93					
69	CT-2	GRE US 42												311					
71	CT-3	GRE US 42												413					
SUBTOTAL						0.98	0.08	0.99	1250	32.00	18	0.07	136	15	817.00	30.00	10	30	1300
TOTAL CARRIED TO THE GENERAL SUMMARY						0.98	0.08	0.99	1250	32.00	18	0.07	136	15	817.00	30.00	10	30	1300

I:\ProjectData\GRE\08640_GRE-US42-3.16\Design\Traffic\Sheets\08640_TS00.dgn Sheet 17/2020 6:23:18 AM dender

I:\ProjectData\GRE\08640_GRE-US42-3.16\Design\Traffic\Sheets\08640_Traffic_Sheets.dwg 12/20/20 0:28:33 AM ahenders

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	644	644	644	644	644	644	644	621	621	644	620	620	621	
			CENTERLINE	EDGE LINE 6"		EDGE LINE, 6"	CHANNELIZING LINE, 8"	STOP LINE, 24"	LANE ARROW	LANE LINE	RPM (YELLOW-YELLOW)	RPM (WHITE)	TRANSVERSE LINE	DELINEATOR, MISC. TYPE C WHITE	DELINEATOR, MISC. SURFACE MOUNTED, YELLOW	RAISED PAVEMENT MARKER REMOVED			
			MILE	MILE		MILE	FT	FT	EACH	MILE	EA	EA	FT	EA	EA	EA			
			FROM	TO															
66	ELW-1	GRE US 42	72+50.00	84+05.58	L			0.22											
66	ELW-2	GRE US 42	72+50.00	83+95.60	R			0.22											
68	ELW-3	GRE US 42	84+69.95	95+62.70	L			0.21											
68	ELW-4	GRE US 42	84+77.10	99+66.63	R			0.28											
71	ELW-5	GRE US 42	96+05.44	99+66.63	L			0.07											
66	CL-1	GRE US 42	72+50.00	78+52.00	R	0.11							16						
66	CL-2	GRE US 42	72+97.25	78+30.61	R	0.10							14						
67	CL-3	GRE US 42	79+00.00	83+29.14	R	0.08							11						
68	CL-4	GRE US 42	85+38.00	94+44.44	R	0.17							24						
68	CL-5	GRE US 42	85+38.00	91+10.76	R	0.11							15						
71	CL-6	GRE US 42	96+32.77	113+47.34	R	0.32							45						
71	CL-7	GRE US 42	96+32.77	100+00.00		0.07							10						
71	CL-8	GRE US 42	94+95.73	95+50.44		0.01							1						
68	ELY-1	GRE US 42	83+34.59	85+38.01	R		0.04												
68	ELY-2	GRE US 42	83+34.59	85+38.01	R		0.04												
67	CH-1	GRE US 42	80+74.15	83+34.47	R				260.32					7					
68	CH-2	GRE US 42	84+94.75	87+44.75	L				250.00					7					
70	CH-3	GRE US 42	91+60.86	95+50.44	R				389.58										
67	CH-4	GRE US 42	78+50.00	82+00.00	R				350.00										
67	CT-1	GRE US 42													93				
69	CT-2	GRE US 42													311				
71	CT-3	GRE US 42													413				
SUBTOTAL						0.98	0.08	0.99	1250	32.00	18	0.07	136	15	817.00	30.00	10	30	
TOTAL CARRIED TO THE GENERAL SUMMARY						0.98	0.08	0.99	1250	32.00	18	0.07	136	15	817.00	30.00	10	30	

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630	630		630	630	630		630			
							REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		SIGN, FLAT SHEET	GROUND MOUNTED SIGN SUPPORT, NO. 3 POST	SIGN POST REFLECTOR		REMOVAL OF GROUND MOUNTED SIGN AND REECTION			
							EACH	EACH		SQ FT	FT	EACH		EA			
67		GRE US 42		RT	R3-5A	30				7.50	1						
67		GRE US 42		RT	R6-1L	36				3.00	1						
68		GRE US 42		RT	R3-H8	30				7.50	1						
68		GRE US 42		RT	R4-7	24				5.00	1						
68		GRE US 42		RT	R6-1R	36				3.00	1						
68		GRE US 42		RT	R6-1R	36				3.00	1						
68		GRE US 42		RT	R4-7	24				5.00	1						
68		GRE US 42		LT	R3-H8	30				7.50	1						
70		GRE US 42		RT	R3-H8	30				7.50	1						
70		GRE US 42		LT	R6-1L	36				3.00	1						
70		GRE US 42		LT	R3-5A	36				7.50	1						
71		GRE US 42		LT	W2-2R	30				6.25	1						
71		GRE US 42		LT	W12-H3	24				2.00							
68		GRE US 42		LT	SPECIAL	36				15.00	1						
68		GRE US 42		LT	SPECIAL	60				20.00	1						
68		GRE US 42		RT	SPECIAL	60				20.00	1						
69		GRE US 42		LT	SPECIAL	60				20.00	1						
69		GRE US 42		RT	SPECIAL	60				20.00	1						
70		GRE US 42		RT	SPECIAL	36				15.00	1						
67		GRE US 42		LT	M3-3	24				2.00							
67		GRE US 42		LT	M1-4	24				4.00	1						
67		GRE US 42		LT	M4-5	12				2.00							
68		SPRINGVALLEY PAINTERSVILLE		RT	M5-1	12				2.60							
68		SPRINGVALLEY PAINTERSVILLE		RT	M5-1	12				2.60							
68		SPRINGVALLEY PAINTERSVILLE		RT	M1-4	24				4.00	1						
68		SPRINGVALLEY PAINTERSVILLE		RT	M1-4	24				4.00	1						
68		SPRINGVALLEY PAINTERSVILLE		RT	M3-1	24				2.00							
68		SPRINGVALLEY PAINTERSVILLE		RT	M3-3	24				2.00							
68		SPRINGVALLEY PAINTERSVILLE		RT	R3-5R	30				7.50	1						
68		SPRINGVALLEY PAINTERSVILLE		RT	R1-1	30				6.25	1	1					
68		SPRINGVALLEY PAINTERSVILLE		LT	R1-1	30				6.25	1	1					
68		SPRINGVALLEY PAINTERSVILLE		RT	R3-7	30				6.25	1						
68		SPRINGVALLEY PAINTERSVILLE		LT	M6-1	12				2.20							
68		SPRINGVALLEY PAINTERSVILLE		LT	M6-1	12				2.20							
68		SPRINGVALLEY PAINTERSVILLE		LT	M1-4	24				4.00	1						
68		SPRINGVALLEY PAINTERSVILLE		LT	M1-4	24				4.00	1						
68		SPRINGVALLEY PAINTERSVILLE		LT	M3-1	24				2.00							
68		SPRINGVALLEY PAINTERSVILLE		LT	M3-3	24				2.00							
68		SPRINGVALLEY PAINTERSVILLE		LT	R3-5R	30				7.50	1						
68		SPRINGVALLEY PAINTERSVILLE		LT	R1-1	30				6.25	1	1					
68		SPRINGVALLEY PAINTERSVILLE		RT	R1-1	30				6.25	1	1					
68		SPRINGVALLEY PAINTERSVILLE		LT/RT	M4-5	12 (4)				8.00							
SUBTOTAL							10	16		273.60	29	4			6		
TOTAL CARRIED TO THE GENERAL SUMMARY							10	16		273.60	29	4			6		

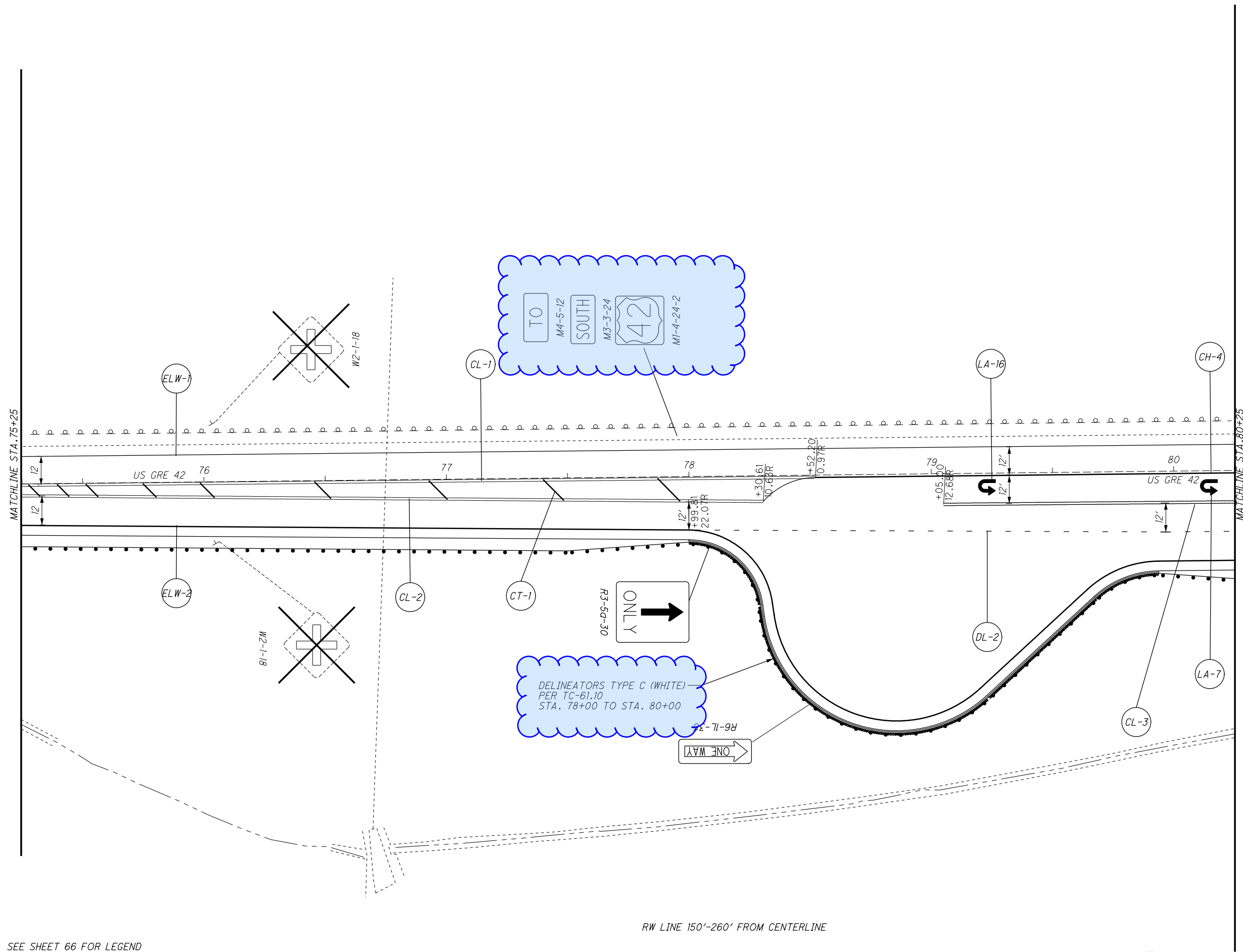
SIGNING SUBSUMMARY	GRE-42-3.15
CALCULATED ABH	CHECKED LB
64	73

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630	630		630	630	630		630			
							REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		SIGN, FLAT SHEET	GROUND MOUNTED SIGN SUPPORT, NO. 3 POST	SIGN POST REFLECTOR		REMOVAL OF GROUND MOUNTED SIGN AND REECTION			
							EACH	EACH		SQ FT	FT	EACH		EA			
67		US 42	76+04.00	RT/LT	W2-1	18	2	2									
68		US 42	84+50.00	RT	D1-1C	18								1			
68		SPRINGVALLEY PAINTERSVILLE		RT/LT	R1-1	30	4	4									
68		SPRINGVALLEY PAINTERSVILLE		RT/LT	I-3	12		4									
68		US 42	82+50.00	LT	M1-4	24	1	1									
68		US 42	82+50.00	LT	M3-3	24		1									
69		US 42	89+18.00	RT	M1-4	24	1	1									
69		US 42	89+18.00	RT	M3-1	24		1									
70		US 42	91+13.35	RT	W6-1	30								1			
70		US 42	92+80.00	RT/LT	W2-1	18	2	2									
71		US 42	97+27.55	RT	R2-1	12								1			
71		US 42	97+34.00	RT	W11-8	12								1			
73		US 42	113+00.00	RT/LT	W4-2L	30								2			
SUBTOTAL							10	16		273.60	29	4		6			
TOTAL CARRIED TO THE GENERAL SUMMARY							10	16		273.60	29	4		6			

CALCULATED
ABH
CHECKED
LB

SIGNING SUBSUMMARY

GRE - 42 - 3.15



SEE SHEET 66 FOR LEGEND

RW LINE 150'-260' FROM CENTERLINE



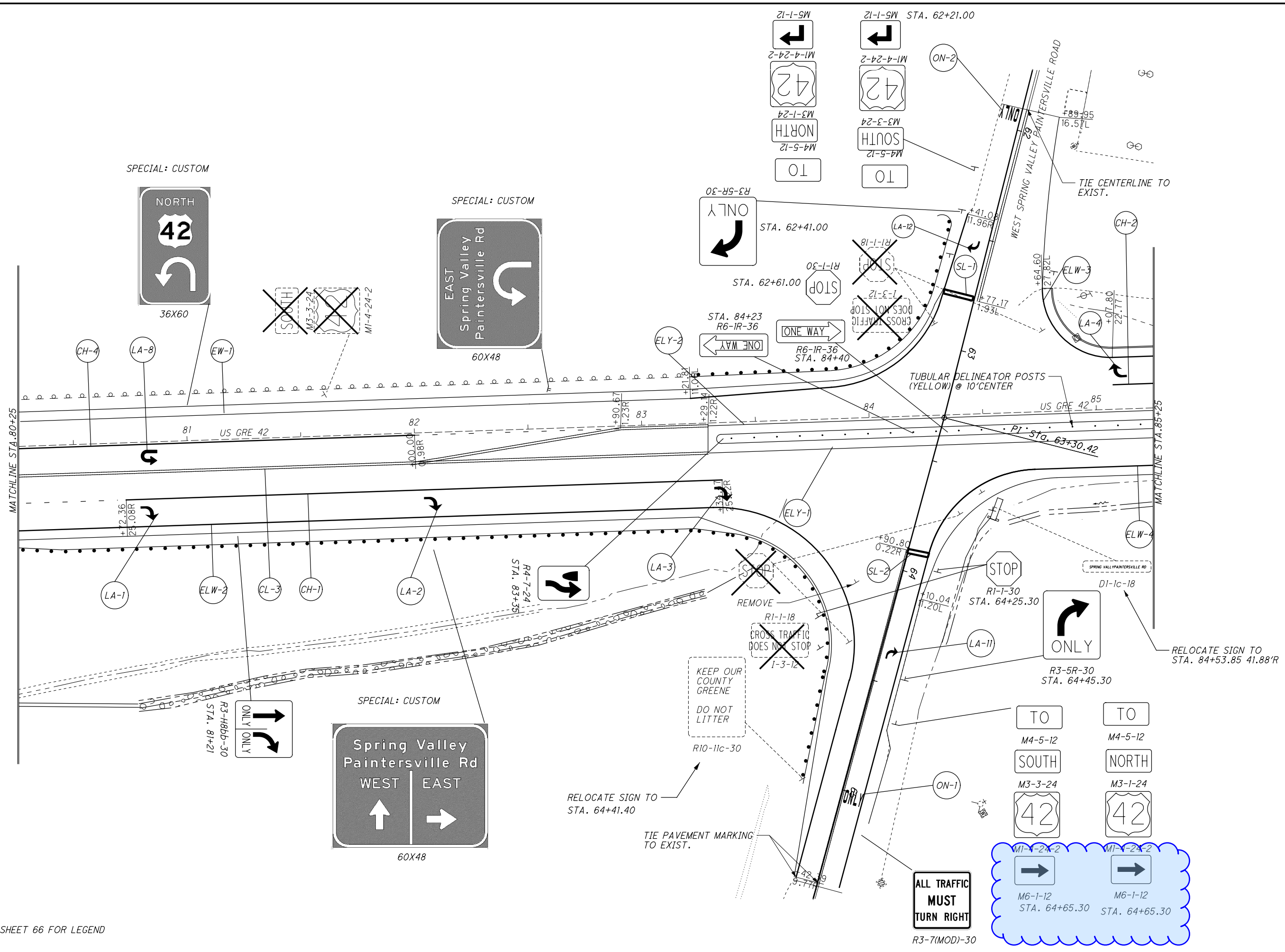
CALCULATED	ABH
CHECKED	TCS

SIGNING & PAVEMENT MARKING
STA. 75+25.00 TO STA. 80+25.00

GRE-42-3.15

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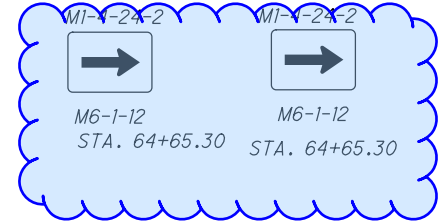
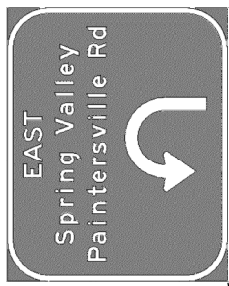
SEE SHEET 66 FOR LEGEND



SPECIAL: CUSTOM

SPECIAL: CUSTOM

SPECIAL: CUSTOM



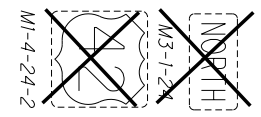
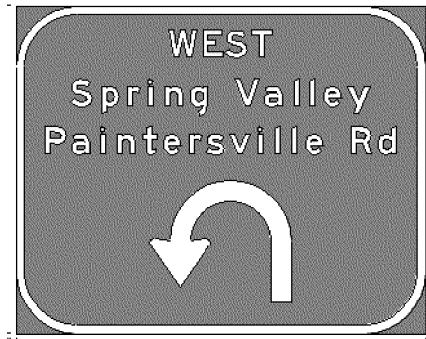
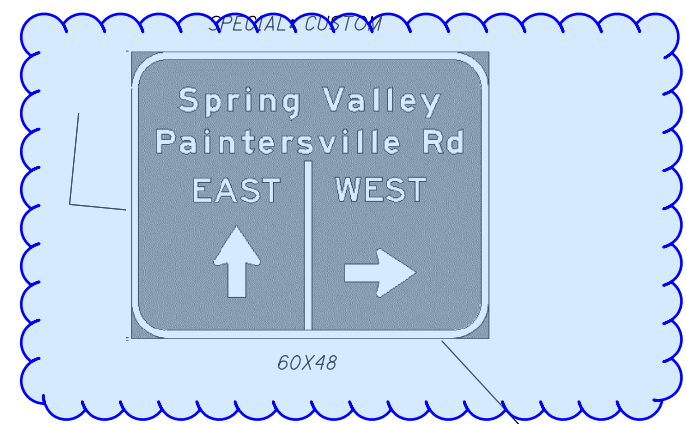
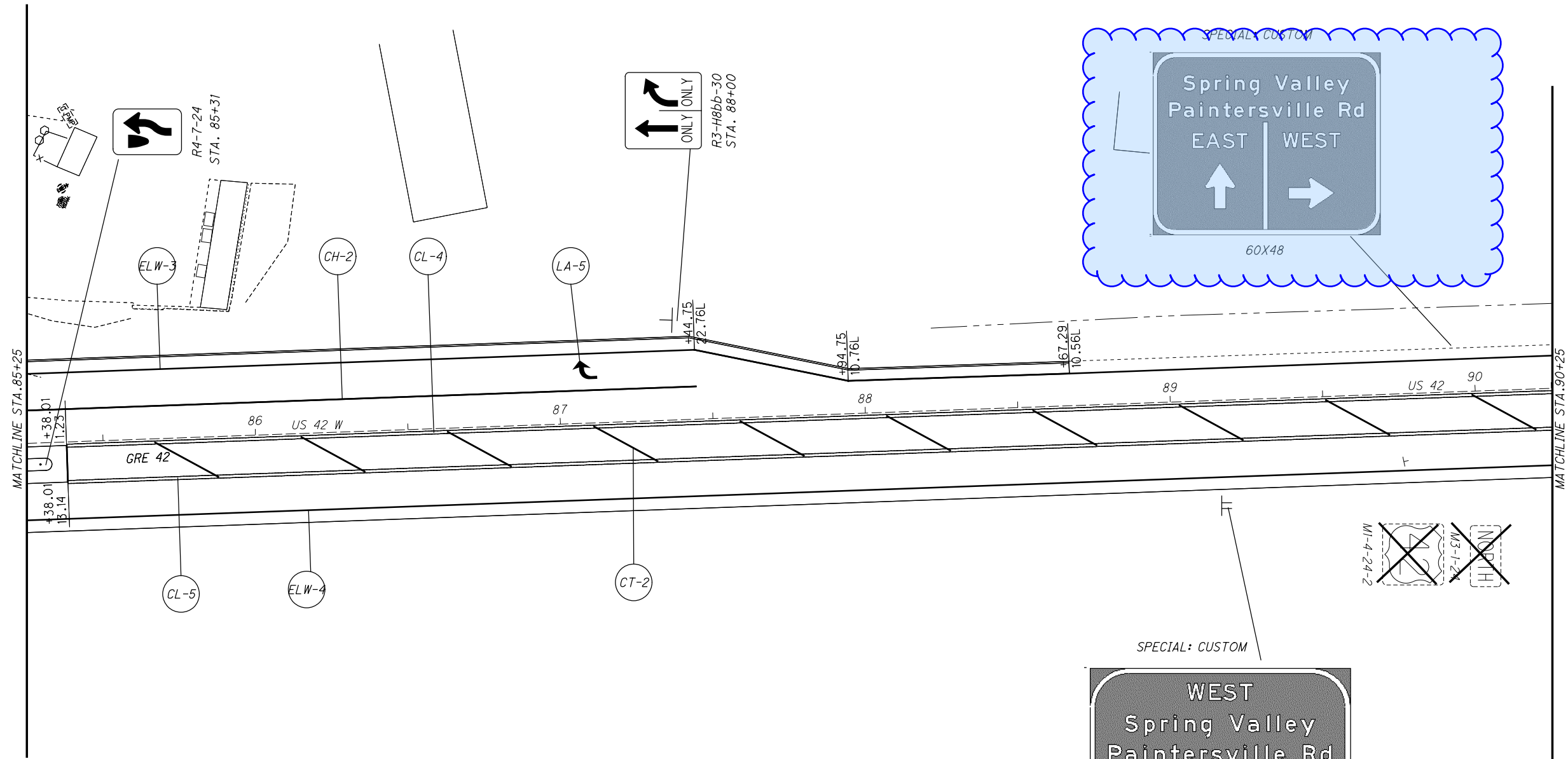
CALCULATED
ABH
CHECKED
TCS

0 20 40
HORIZONTAL
SCALE IN FEET

SIGNING & PAVEMENT MARKING
STA. 80+25.00 TO STA. 85+25.00

GRE-42-3.15

SEE SHEET 66 FOR LEGEND



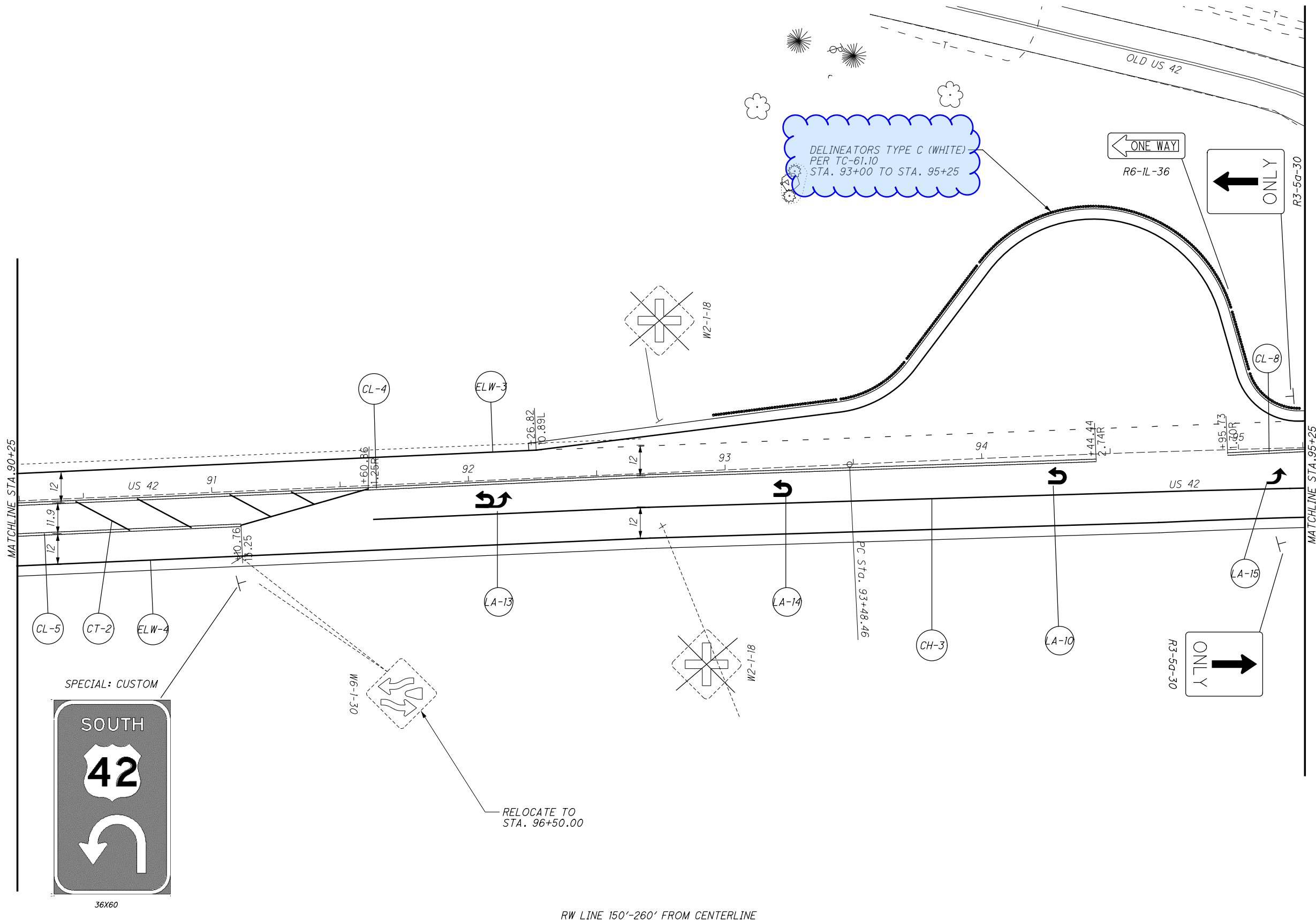
CALCULATED ABH
CHECKED TCS

HORIZONTAL SCALE IN FEET

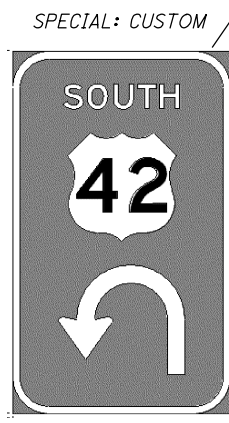
SIGNING & PAVEMENT MARKING
STA. 85+25.00 TO STA. 90+25.00

GRE - 42 - 3.15

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SEE SHEET 66 FOR LEGEND



DELINEATORS TYPE C (WHITE)
PER TC-61.10
STA. 93+00 TO STA. 95+25

RELOCATE TO
STA. 96+50.00

RW LINE 150'-260' FROM CENTERLINE



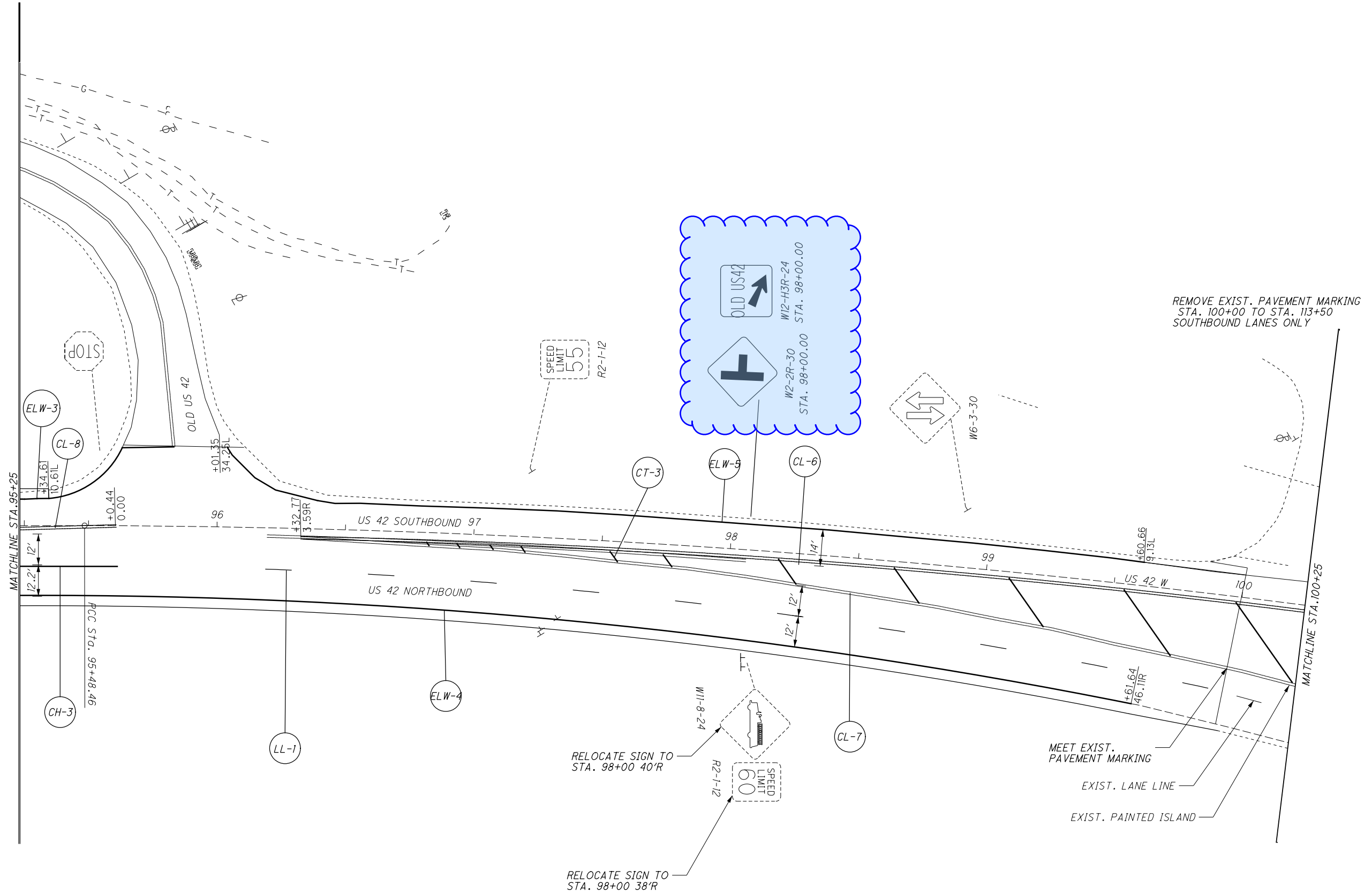
CALCULATED
ABH
CHECKED
TCS

SIGNING & PAVEMENT MARKING
STA. 90+25.00 TO STA. 95+25.00

GRE-42-3.15

70
73

SEE SHEET 66 FOR LEGEND



CALCULATED	ABH	CHECKED	TCS

0 20 40
HORIZONTAL SCALE IN FEET

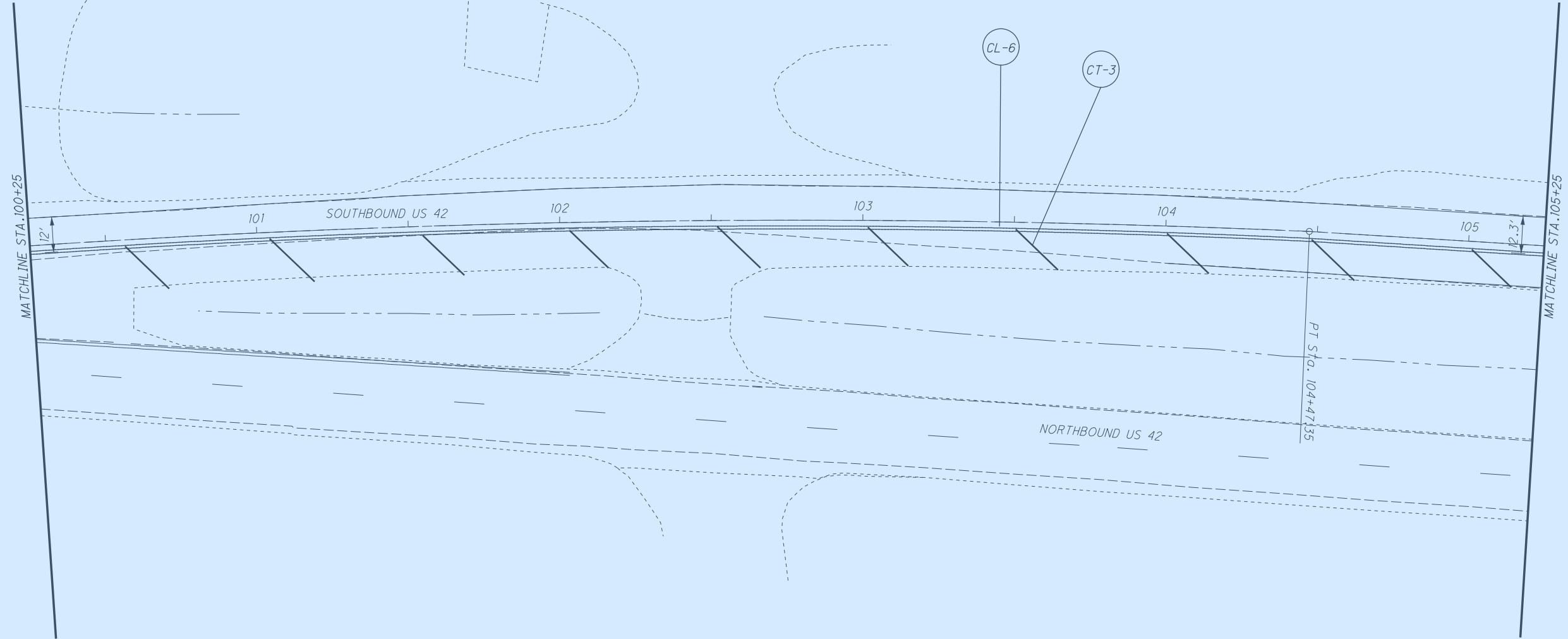
SIGNING & PAVEMENT MARKING
STA. 95+25.00 TO STA. 100+25.00

GRE-42-3.15

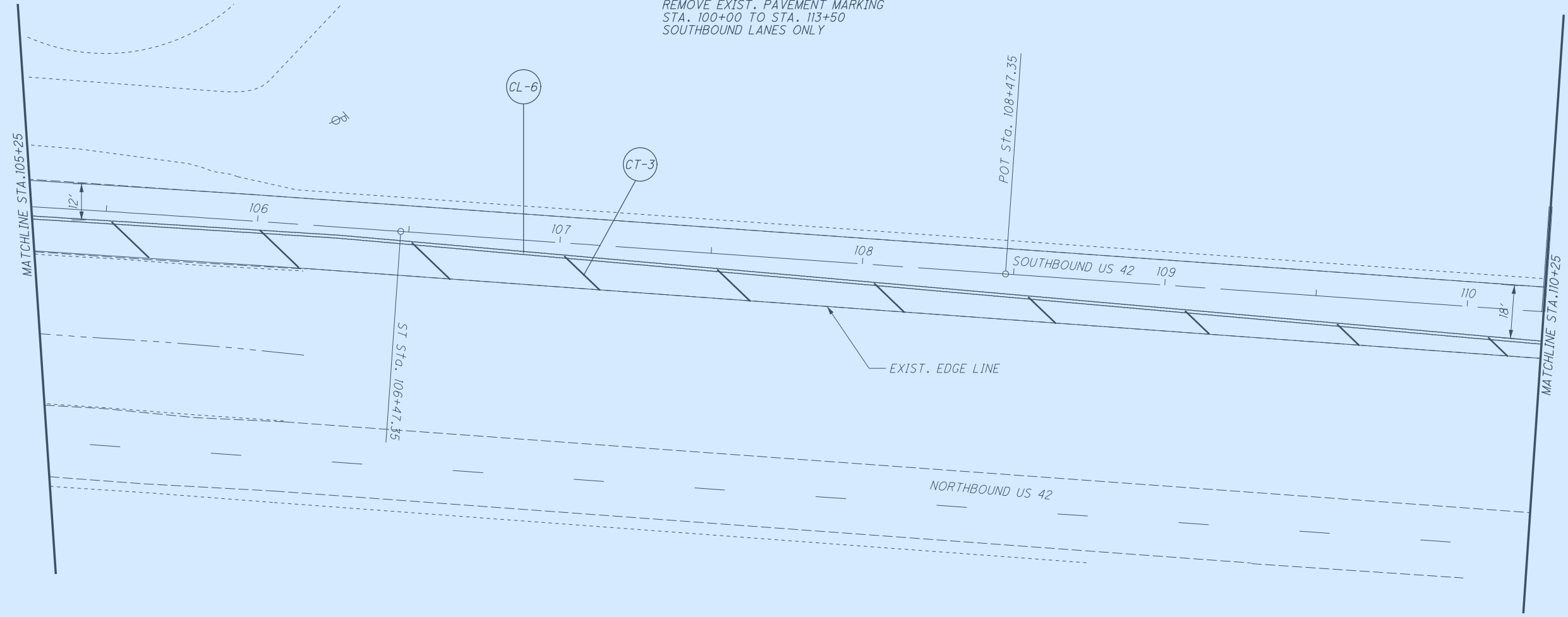
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SEE SHEET 66 FOR LEGEND

REMOVE EXIST. PAVEMENT MARKING
STA. 100+00 TO STA. 113+50
SOUTHBOUND LANES ONLY



REMOVE EXIST. PAVEMENT MARKING
STA. 100+00 TO STA. 113+50
SOUTHBOUND LANES ONLY

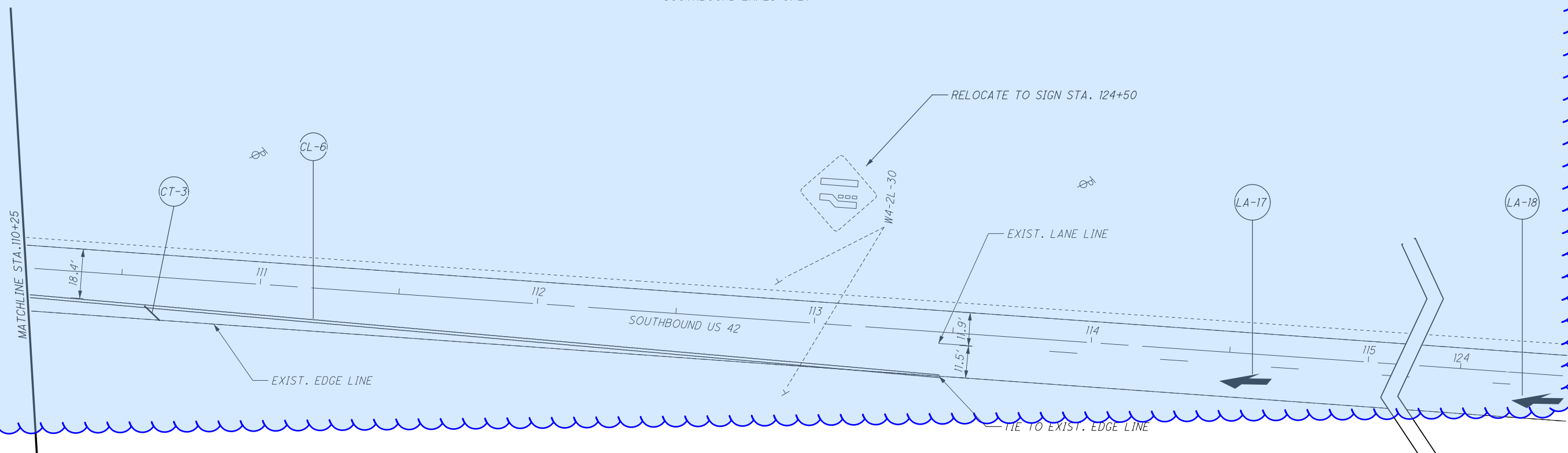


CALCULATED
ABH
CHECKED
TCS

0 20 40
HORIZONTAL
SCALE IN FEET

SIGNING AND PAVEMENT MARKING PLAN
STA. 105+25.00 TO STA. 124+50.00

REMOVE EXIST. PAVEMENT MARKING
STA. 100+00 TO STA. 113+50
SOUTHBOUND LANES ONLY



SEE SHEET 66 FOR LEGEND

RW LINE 150'-260' FROM CENTERLINE

SEE SCD TC-71-10 FOR SIGN AND PM LOCATION

GRE-42-03.15

I:\ProjectData\GRE-105-42\GRB-US-2-16\Res\1\000004\Sheet\105+25 to 110+25.dwg

PROJECT DESCRIPTION

INSTALL A RESTRICTED CROSSING U-TURN (RCUT) AT THE INTERSECTION OF US 42 AND SPRING VALLEY PAINTERSVILLE ROAD.

HISTORIC RECORDS

NO HISTORIC RECORDS WERE FOUND FOR THIS SITE.

GEOLOGY

THE PROJECT SITE IS LOCATED WITHIN THE GLACIATED SOUTHERN OHIO LOAMY TILL PLAIN. THE AREA IS CHARACTERIZED BY GENTLY ROLLING TERRAIN DISSECTED BY THE INCISED VALLEY OF THE LITTLE MIAMI RIVER WHICH CONTAINS GLACIAL OUTWASH DEPOSITS. THE THICK GLACIAL DEPOSITS ARE UNDERLAIN BY SHALE AND LIMESTONE UNITS FROM THE UPPER ORDOVICIAN AGE.

RECONNAISSANCE

FIELD RECONNAISSANCE WAS COMPLETED BY PERSONNEL FROM THE OFFICE OF GEOTECHNICAL ENGINEERING ON AUGUST 2, 2019. THE PROJECT AREA WAS NOTED FOR THE EXISTING ROADWAY BEING CONSTRUCTED ON EMBANKMENT FILLS TO APPROXIMATELY STATION 84+50 WHERE THE ROADWAY TRANSITIONS INTO CUT SECTION. AT APPROXIMATELY STATION 95+50 THE ROADWAY IS CONSTRUCTED IN A RELATIVELY FLAT SECTION AT GRADE. THE EMBANKMENT SLOPES ARE STEEP AND VEGETATED AND WOODED. AN INTERMITTENT STREAM IS PRESENT ALONG THE TOE OF THE EASTERN EMBANKMENT. NORTH OF THE SPRING VALLEY PAINTERSVILLE RD. INTERCHANGE THE CUT SECTION IS RELATIVELY THICKLY WOODED OR GRASS COVERED AT THE BASE OF THE CUT. THE ADJACENT PROPERTIES ALONG THE PROJECT ARE PREDOMINATELY WOODED WITH AREAS OF RURAL RESIDENTIAL AND COMMERCIAL LOTS.

SUBSURFACE EXPLORATION

FOURTEEN (14) BORINGS, B-001-0-19 THROUGH B-005-0-19, B-007-0-19 THROUGH B-011-0-19, AND B-003-1-19, B-004-1-19, B-005-1-19, AND B-007-1-19 WERE DRILLED BETWEEN AUGUST 14 AND 27, 2019. B-006-0-19 WAS PLANNED BUT ELIMINATED DUE TO ACCESS CONSTRAINTS. ALL BORINGS WERE COMPLETED UTILIZING A TRACK MOUNTED CME 850 ROTARY DRILL RIG USING 3/4 INCH I.D. HOLLOW STEM AUGERS, EXCEPT FOR B-003-1 AND B-004-1 WHICH WERE COMPLETED WITH AN ACKER XLS TRACK MOUNTED ROTARY DRILL RIG AND 3/4 INCH I.D. HOLLOW STEM AUGERS. DISTURBED SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE STANDARD PENETRATION TEST (AASHTO T206) AT CONTINUOUS INTERVALS WITHIN AREAS OF SUBGRADE EVALUATION AND 2.5-FOOT INTERVALS FOR THE EMBANKMENT OR CUT SLOPE EVALUATIONS. THE HAMMER SYSTEMS USED WERE CALIBRATED ON MAY 1, 2019, AND THE AVERAGE DRILL ROD ENERGY RATIO (ER) IS 89.1% FOR THE CME 850 AND 90.6% FOR THE ACKER.

EXPLORATION FINDINGS

BORINGS B-001-0-19 THROUGH B-007-0-19, AND B-009-0-19, AND B-011-0-19 WERE COMPLETED WITHIN THE ROADWAY AND WERE SAMPLED FOR SUBGRADE EVALUATIONS. THESE BORINGS ENCOUNTERED 3.5 TO 9 INCHES OF ASPHALT UNDERLAIN BY 5 TO 9 INCHES OF CONCRETE. AGGREGATE BASE WAS NOTED IN B-003-0-19 AND B-004-0-19 AT 4 AND 4.5 INCHES OF THICKNESS RESPECTIVELY. BENEATH THE PAVEMENT BORINGS B-001-0-19 THROUGH B-004-0-19, WHICH WERE COMPLETED THROUGH EMBANKMENT FILLS, ENCOUNTERED PREDOMINATELY NON-COHESIVE SOILS RANGING FROM GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b), COARSE AND FINE SAND (A-3a) AND GRAVEL AND STONE FRAGMENT WITH SAND AND SILT (A-2-4) IN MEDIUM DENSE TO VERY DENSE COMPACTNESS AND DAMP CONDITION. LAYERS OF VERY STIFF TO HARD SANDY SILT (A-4a) IN DAMP TO MOIST CONDITIONS WERE NOTED WITHIN THE NON-COHESIVE LAYERS. BENEATH THE PAVEMENT BORINGS B-005-0-19 THROUGH B-011-0-19-19, WHICH WERE COMPLETED WITHIN THE CUT OR AT GRADE SECTION, ENCOUNTERED PREDOMINATELY NON-COHESIVE SOILS RANGING FROM GRAVEL WITH SAND (A-1-b) AND COARSE AND FINE SAND (A-3a) IN MEDIUM DENSE TO DENSE COMPACTNESS AND DAMP CONDITION.

B-003-0-19 WAS EXTENDED THROUGH THE ENTIRE DEPTH OF THE EMBANKMENT TO CHARACTERIZE THE EMBANKMENT FILLS FOR WIDENING. ENCOUNTERING PREDOMINATELY NON-COHESIVE SOILS BELOW SUBGRADE SAMPLES CONSISTING OF GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) IN DENSE COMPACTNESS AND DAMP CONDITION TO ELEVATION 871.9 FEET UNDERLAIN BY VERY STIFF TO HARD SANDY SILT (A-4a) IN MOIST CONDITION. BETWEEN ELEVATION 862.4 AND 859.9 FEET VERY DENSE GRAVEL AND STONE FRAGMENT WITH SAND (A-1-b) WAS ENCOUNTERED UNDERLAIN BY VERY STIFF SILTY CLAY (A-6b) IN DAMP TO MOIST CONDITION EXTENDING TO ELEVATION 852.4 FEET WHERE HARD SANDY SILT (A-4a) IN DAMP CONDITION WAS ENCOUNTERED IN WHICH THE BORING WAS TERMINATED.

B-003-1-19 AND B-004-1-19 WERE COMPLETED AT THE TOE OF THE PROPOSED EMBANKMENT WIDENING. B-003-1-19 ENCOUNTERED 18 INCHES OF TOPSOIL UNDERLAIN BY VERY STIFF SILTY CLAY (A-6b) WHICH WAS SLIGHTLY ORGANIC AND MOIST EXTENDING TO ELEVATION 838.6 FEET. MEDIUM DENSE GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT (A-2-4) IN DAMP CONDITION WAS ENCOUNTERED BETWEEN ELEVATION 838.6 AND 833.6 FEET UNDERLAIN BY DENSE GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) TO ELEVATION 831.1 FEET THEN VERY DENSE COARSE AND FINE SAND (A-3a) WHICH CONTAINED COBBLES AND BOULDERS. THE BORING WAS TERMINATED IN MEDIUM DENSE SILT (A-4b) ENCOUNTERED BELOW ELEVATION 826.1 FEET. B-004-1-19 ENCOUNTERED GRAVEL WITH SAND AND SILT (A-2-4) BELOW THE CUT BENCH ESTABLISHED FOR THE BORING EXTENDING TO ELEVATION 870.9 FEET UNDERLAIN BY GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) IN MEDIUM DENSE COMPACTNESS AND MOIST TO WET CONDITION. MEDIUM DENSE SILT (A-4b) WAS ENCOUNTERED AT ELEVATION 865.9 FEET EXTENDING TO ELEVATION 860.9 FEET UNDERLAIN BY GRAVEL WITH SAND (A-1-b) MEDIUM DENSE IN COMPACTNESS AND DAMP IN WHICH THE BORING WAS TERMINATED.

LEGEND		ODOT CLASS	CLASSIFIED MECH./VISUAL	
DESCRIPTION				
	GRAVEL AND/OR STONE FRAGMENTS	A-1-a (0)	1	2
	GRAVEL AND/OR STONE FRAGMENTS WITH SAND	A-1-b (0)	17	14
	COARSE AND FINE SAND	A-3a (0)	13	10
	GRAVEL AND/OR STONE FRAGS. WITH SAND & SILT	A-2-4 (0)	3	1
	SANDY SILT	A-4a (3)	11	9
	SILT	A-4b (8)	3	-
	SILT AND CLAY	A-6a (7)	2	-
	SILTY CLAY	A-6b (9)	4	3
	CLAY	A-7-6 (13)	1	-
	TOTAL		55	39
	PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL		
	TOPSOIL = X = APPROXIMATE THICKNESS	VISUAL		
	BORING LOCATION - PLAN VIEW.			
	DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.			
WC	INDICATES WATER CONTENT IN PERCENT.			
N ₆₀	INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.			
⊕	INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.			
SS	INDICATES A SPLIT SPOON SAMPLE.			
NP	INDICATES A NON-PLASTIC SAMPLE.			
SO ₄	INDICATES SULFATE CONTENT IN PARTS PER MILLION.			
LOI	INDICATES ORGANIC CONTENT BY LOSS ON IGNITION TEST (AASHTO T267).			

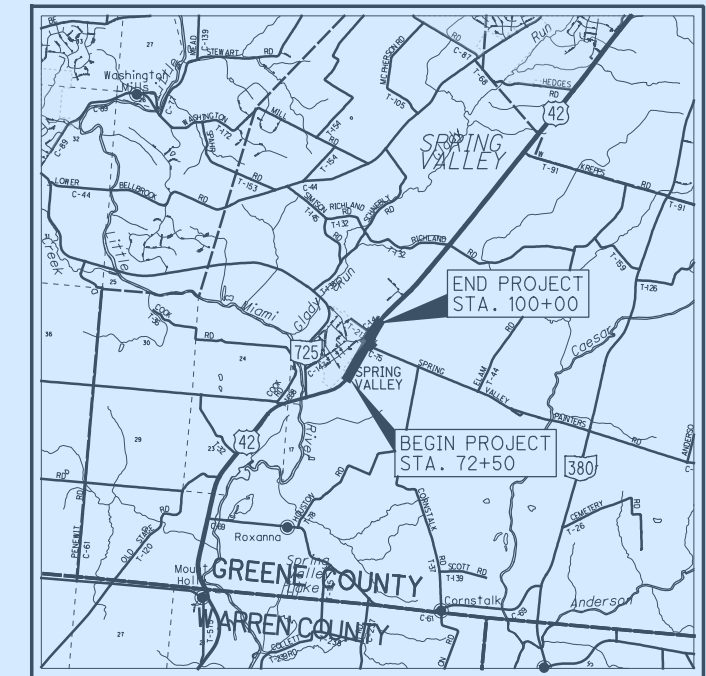
EXPLORATION FINDINGS (CONT.)

BORINGS B-005-1-19, B-007-1-19, B-008-0-19, AND B-010-0-19 WERE COMPLETED IN THE PROPOSED CUT SECTION. B-005-1-19 ENCOUNTERED 18 INCHES OF TOPSOIL UNDERLAIN BY LOOSE TO MEDIUM DENSE COARSE AND FINE SAND (A-3a) IN WHICH THE BORING WAS TERMINATED. B-007-1-19 FIRST ENCOUNTERED 2 INCHES OF TOP SOIL UNDERLAIN BY COHESIVE SILT AND CLAY (A-6a) AND SILTY CLAY (A-6b) WHICH WERE HARD IN CONSISTENCY AND MODERATELY ORGANIC EXTENDING TO ELEVATION 908.4 FEET. BENEATH THE COHESIVE SOILS THE BORING ENCOUNTERED NON-COHESIVE SOILS CONSISTING OF GRAVEL WITH SAND (A-1-b), AND COARSE AND FINE SAND (A-3a) WHICH WERE LOOSE TO DENSE IN COMPACTNESS AND DAMP IN CONDITION. B-008-0-19 FIRST ENCOUNTERED 6 INCHES OF TOPSOIL UNDERLAIN BY COHESIVE CLAY (A-7-6) AND SILTY CLAY (A-6b) WHICH WERE VERY STIFF TO HARD IN CONSISTENCY EXTENDING TO ELEVATION 910.1 FEET. BENEATH THE COHESIVE SOILS THE BORING ENCOUNTERED NON-COHESIVE SOILS CONSISTING OF GRAVEL (A-1-a), AND COARSE AND FINE SAND (A-3a) WHICH WERE MEDIUM DENSE TO DENSE IN COMPACTNESS AND DAMP IN CONDITION. B-010-0-19 ENCOUNTERED 6 INCHES OF TOPSOIL UNDERLAIN BY NON-COHESIVE SOILS CONSISTING SANDY SILT (A-4a), GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) AND COARSE AND FINE SAND (A-3a) IN RANGED FROM LOOSE TO MEDIUM DENSE IN COMPACTNESS AND DAMP IN CONDITION.

ALL BORINGS WERE REPORTED AS BEING DRY AT COMPLETION.

SPECIFICATIONS

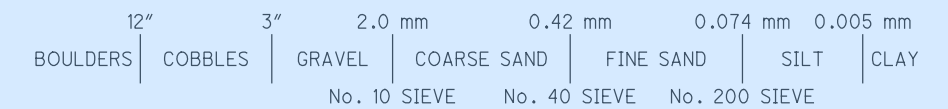
THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, DATED JANUARY 2019.



LOCATION MAP
SCALE IN MILES



PARTICLE SIZE DEFINITIONS



AVAILABLE INFORMATION

ALL AVAILABLE SOIL AND BEDROCK INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THE GEOTECHNICAL EXPLORATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE OR THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1980 WEST BROAD STREET.

- RECON. - AMJ 08/02/19
- DRILLING - DML, CEM, ZJB 08/14/19 - 08/27/19
- DRAWN - BKL 11/19
- REVIEWED - ST 11/19

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DESIGN AGENCY: OFFICE OF GEOTECHNICAL ENGINEERING, OHIO DEPARTMENT OF TRANSPORTATION, 1980 W. BROAD ST., COLUMBUS, OH 43223
 PROJECT ID NO.: 108640
 SOIL PROFILE: GRE-42-3.15
 SHEET NO.: 9

SUMMARY OF SOIL TEST DATA (CONT.)

US 42

EXPLORATION ID., STATION & OFFSET	FROM - TO	SAMPLE ID	N ₆₀	% REC	t _{sf} HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO ₄
B-011-0-19	01.50 - 03.00	SS-1	24	44		42	23	15	16	4	NP	NP	NP	6	A-1-b (0)	<100
STA. 97+35, 17' RT.	03.00 - 04.50	SS-2	9	50		41	23	14	16	6	NP	NP	NP	6	A-1-b (0)	<100
LATITUDE = 39.613775	04.50 - 06.00	SS-3	6	61						SAME AS SS-2				8	A-1-b (VISUAL)	-
LONGITUDE = -83.998753	06.00 - 07.50	SS-4	12	28										7	A-3a (VISUAL)	<100

MEDIUM DENSE, BROWN, COARSE AND FINE SAND, LITTLE GRAVEL AND STONE FRAGMENTS, TRACE SILT, TRACE CLAY (NOT ENOUGH TO RUN CLASSIFICATION TESTS), DAMP

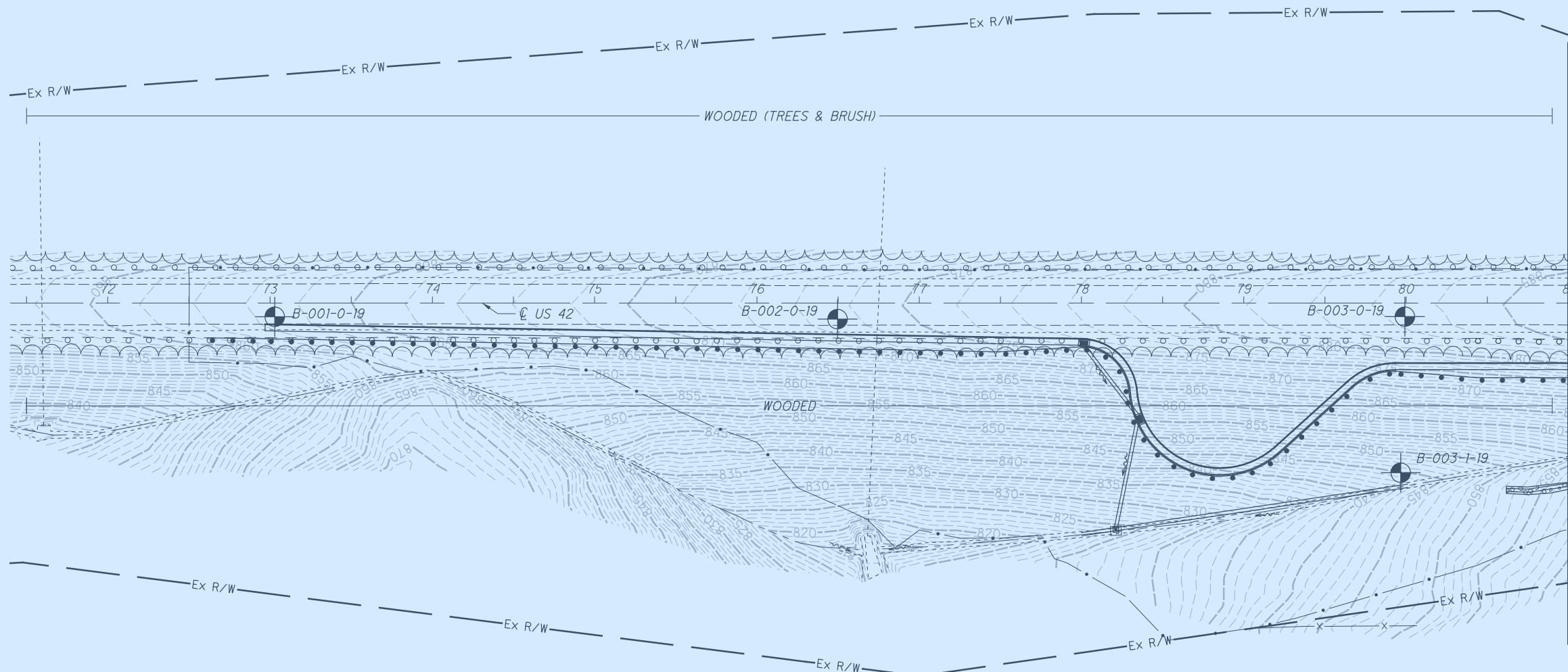


GRE-42-3.15

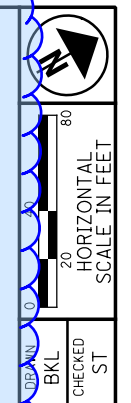
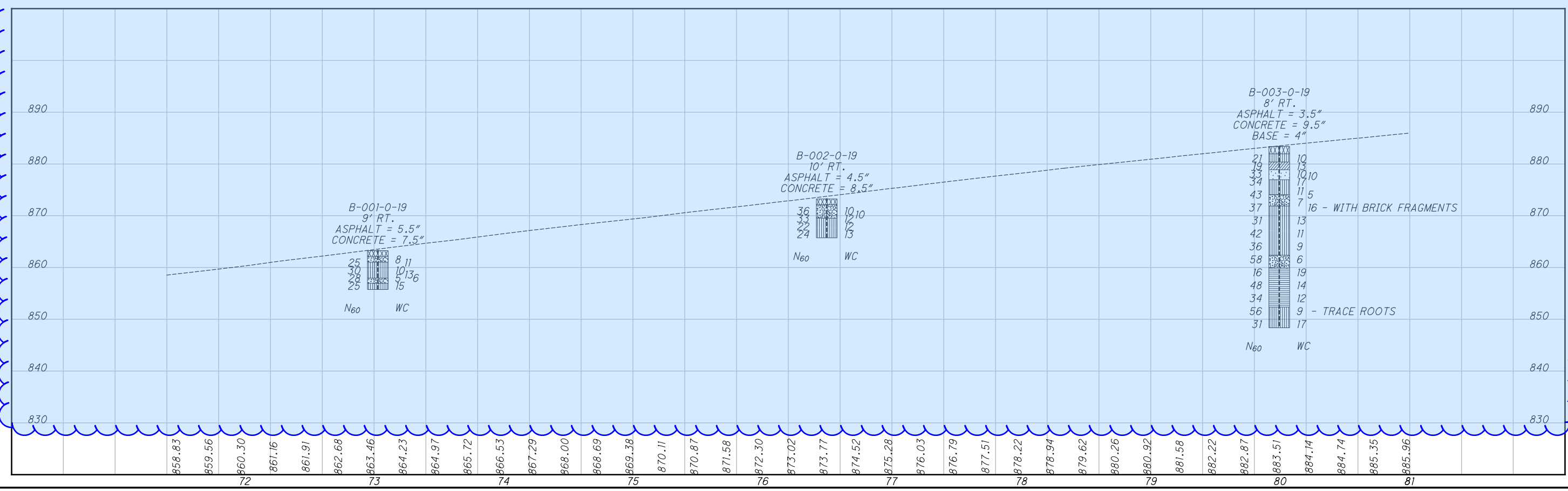
SUMMARY OF SOIL TEST DATA (CONT.)

DRAWN	BKL
CHECKED	
DATE	ST

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FOR BORING B-003-1-19 SEE SHEET NO. 7.



SOIL PROFILE
STA. 72+40 TO STA. 81+00 - US 42

GRE-42-3.15



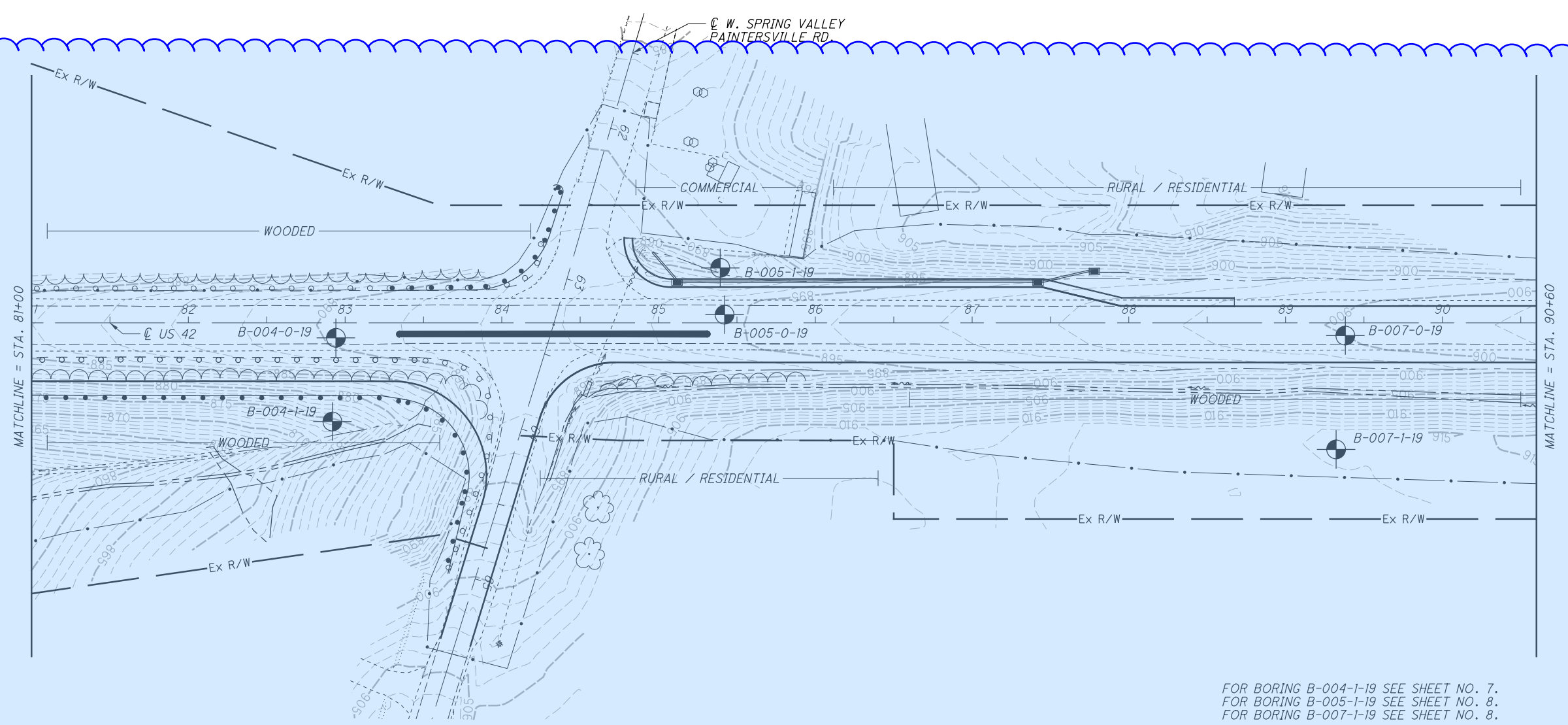
20
40
80
HORIZONTAL
SCALE IN FEET

RELAY
BKL
CHECKED
ST

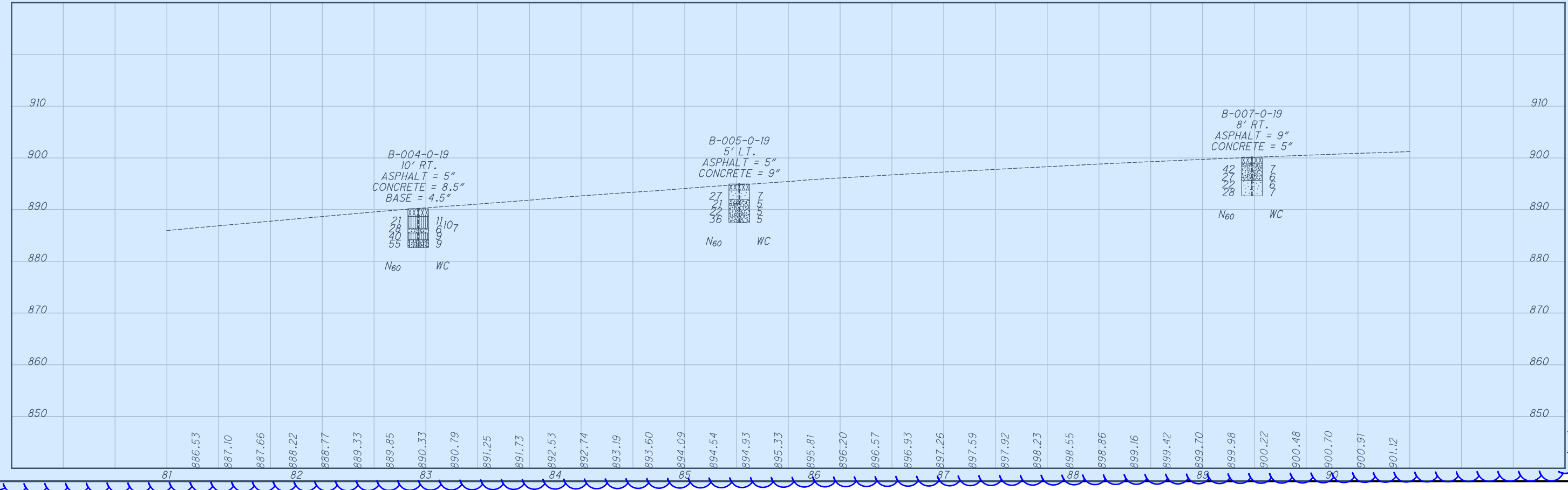
SOIL PROFILE
STA. 81+00 TO STA. 90+60 - US 42

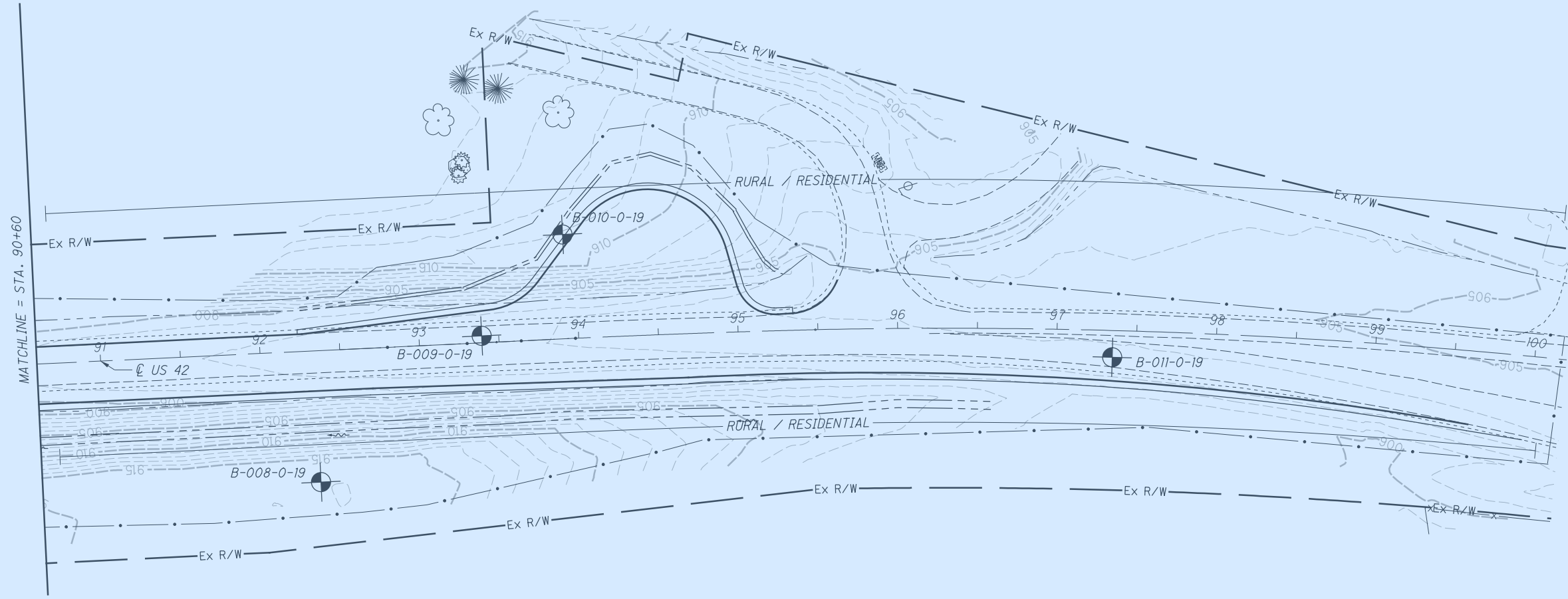
GRE-42-3.15

5/9

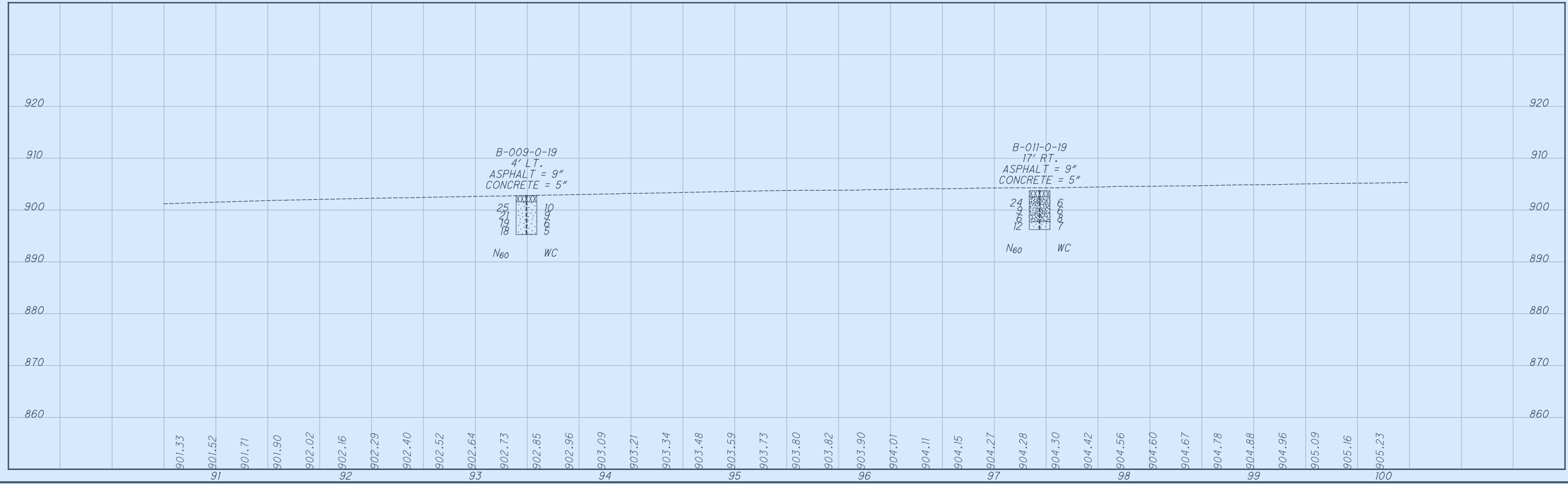


FOR BORING B-004-1-19 SEE SHEET NO. 7.
 FOR BORING B-005-1-19 SEE SHEET NO. 8.
 FOR BORING B-007-1-19 SEE SHEET NO. 8.

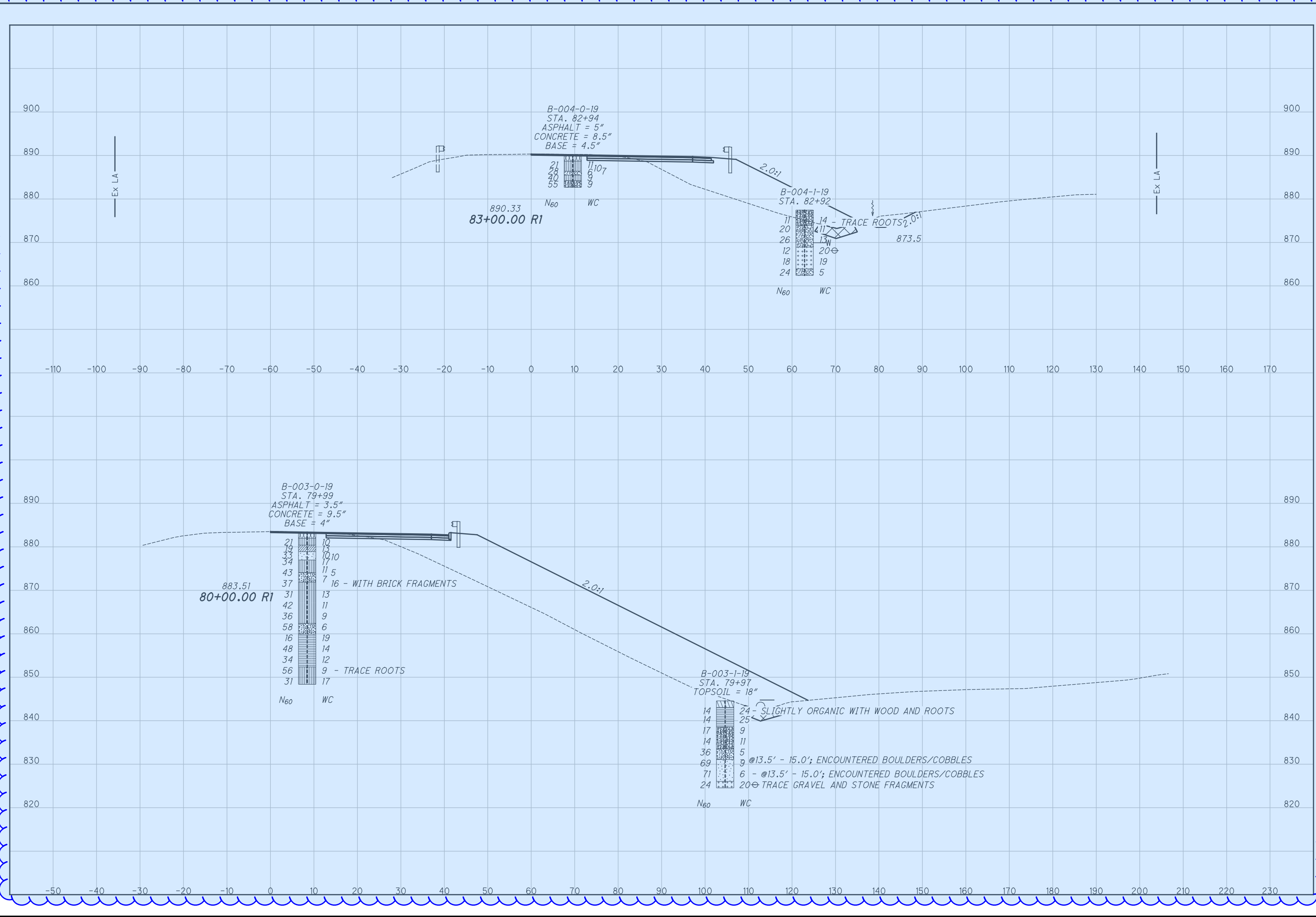




FOR BORING B-008-0-19 SEE SHEET NO. 9.
FOR BORING B-010-0-19 SEE SHEET NO. 9.



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20	HORIZONTAL SCALE IN FEET
10	
5	
BKL	CHECKED
ST	ST

B-004-0-19
 STA. 82+94
 ASPHALT = 5"
 CONCRETE = 8.5"
 BASE = 4.5"

21
 28
 40
 55

11
 6
 9

107

890.33
 N60
 WC
 83+00.00 R1

B-004-1-19
 STA. 82+92

11
 20
 26
 12
 18
 24

14 - TRACE ROOTS
 13
 20
 19
 5

N60
 WC

873.5

B-003-0-19
 STA. 79+99
 ASPHALT = 3.5"
 CONCRETE = 9.5"
 BASE = 4"

21
 19
 33
 34
 43
 37
 31
 42
 36
 58
 16
 48
 34
 56
 31

10
 13
 10
 17
 11
 5
 7
 16 - WITH BRICK FRAGMENTS
 13
 11
 9
 6
 19
 14
 12
 9 - TRACE ROOTS
 17

883.51
 N60
 WC
 80+00.00 R1

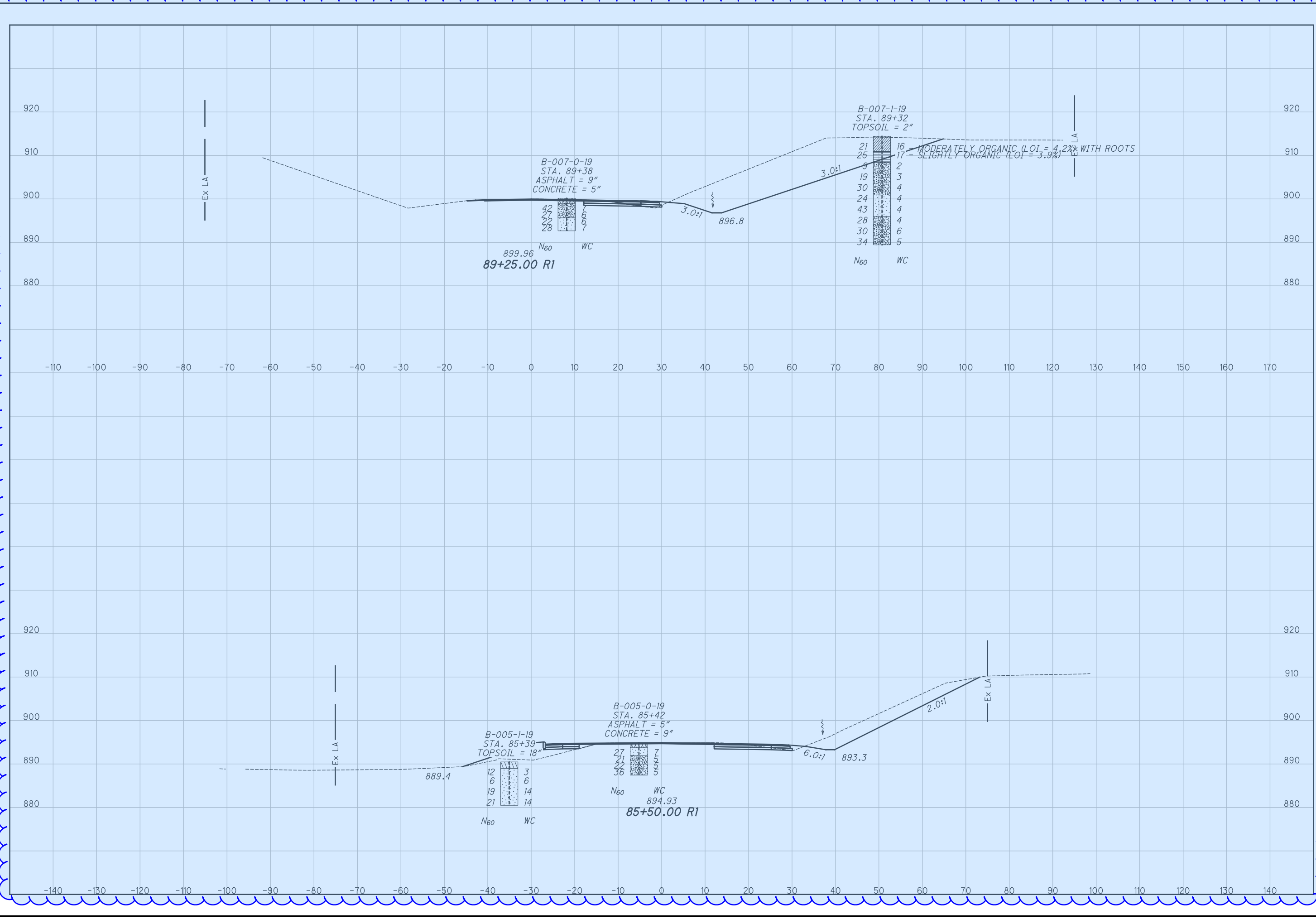
B-003-1-19
 STA. 79+97
 TOPSOIL = 18"

14
 14
 17
 14
 36
 69
 71
 24

24 - SLIGHTLY ORGANIC WITH WOOD AND ROOTS
 25
 9
 11
 5
 9 @ 13.5' - 15.0'; ENCOUNTERED BOULDERS/COBBLES
 6 @ 13.5' - 15.0'; ENCOUNTERED BOULDERS/COBBLES
 20 TRACE GRAVEL AND STONE FRAGMENTS

N60
 WC

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SOIL PROFILE

CROSS SECTIONS STA. 85+50 & STA. 89+25 - US 42

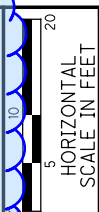
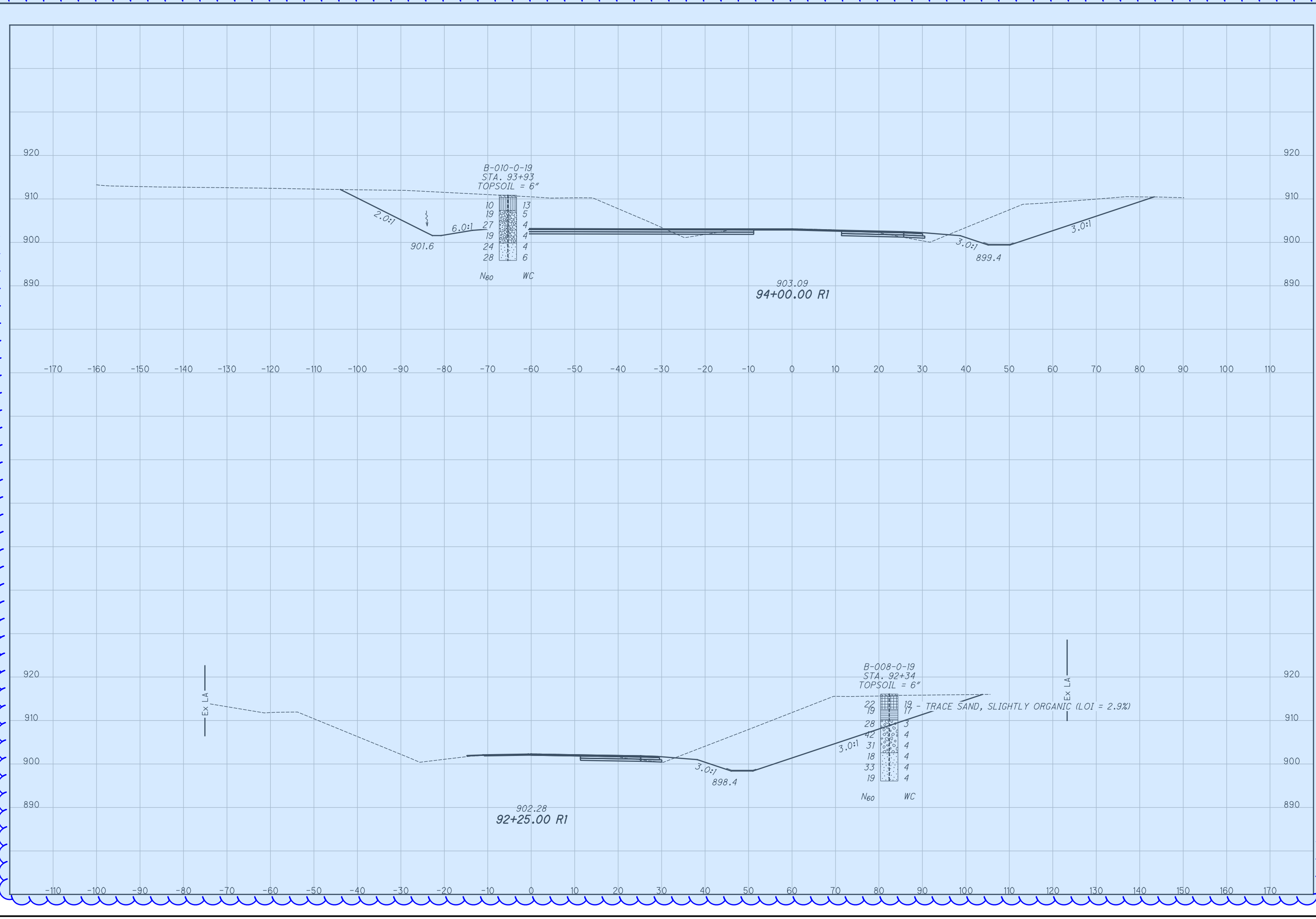
GRE-42-3.15

8/9

BKL
CHECKED
ST

HORIZONTAL SCALE IN FEET
5 10 20

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ALUMY
 BKJL
 CHECKED
 ST

SOIL PROFILE
CROSS SECTIONS STA. 92+25 & STA. 94+00 - US 42

GRE-42-3.15
 9/9