

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## WOO-281-09.37

### WOOD COUNTY LIBERTY TOWNSHIP

**FEDERAL PROJECT NUMBER**

E191(670)

**RAILROAD INVOLVEMENT**

NONE

**PROJECT DESCRIPTION**

THIS PROJECT CONSISTS OF REPLACING THE EXISTING BRIDGE SUPERSTRUCTURE, CONSISTING OF NON-COMPOSITE BOX BEAMS, CARRYING STATE ROUTE 281 OVER MIDDLE BRANCH PORTAGE RIVER WITH CB17-48 COMPOSITE BOX BEAMS. WORK ALSO INCLUDES MINOR ROAD RECONSTRUCTION AND GUARDRAIL UPDATES WEST AND EAST OF THE BRIDGE.

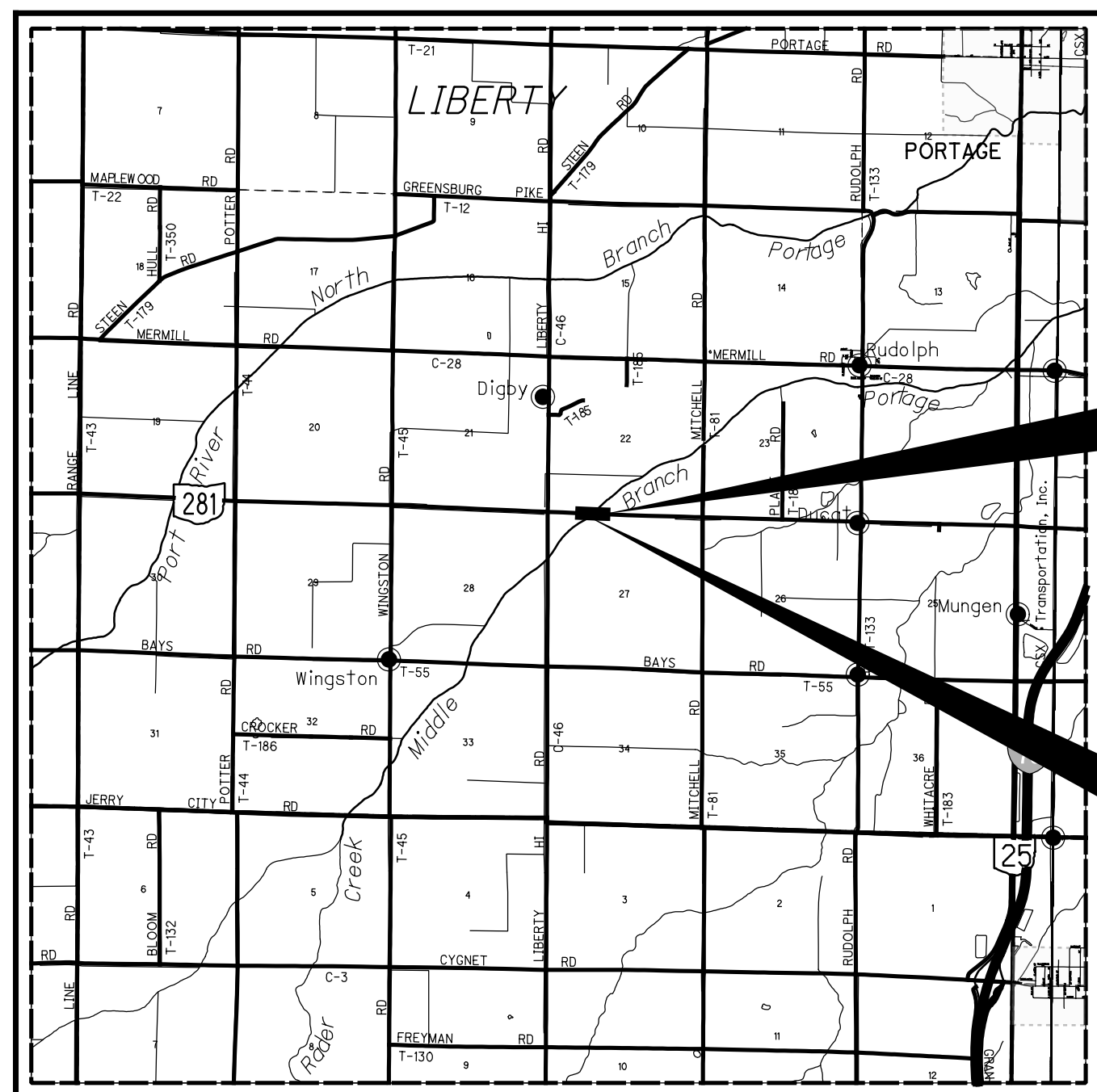
**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA: 0.50 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOT REQUIRED)

**2019 SPECIFICATIONS**

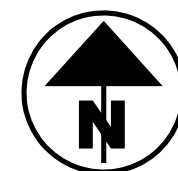
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 5.



**LOCATION MAP**

LATITUDE: 41°17'01" LONGITUDE: 83°42'08"



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

**DESIGN DESIGNATION**

CURRENT ADT (2023)	1,400
DESIGN YEAR ADT (2043)	1,500
DESIGN HOURLY VOLUME (2043)	150
DIRECTIONAL DISTRIBUTION	0.52
TRUCKS (24 HOUR B&C)	0.11
DESIGN SPEED	60 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
RURAL MAJOR COLLECTOR	
NHS PROJECT	NO

**DESIGN EXCEPTIONS**

NONE REQUIRED

**ADA DESIGN WAIVERS**

NONE REQUIRED

**UNDERGROUND UTILITIES**  
Contact Two Working Days  
Before You Dig

**OHIO811.org**  
Before You Dig

OHIO 811, 8-1-1, or 1-800-362-2764  
(Non members must be called directly)

PLAN PREPARED BY:

**BARGE**  
DESIGN SOLUTIONS

**INDEX OF SHEETS:**

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WOO-281-09.37	

**ENGINEER'S SEAL:**

ROADWAY

SIGNED: *[Signature]*  
DATE: 7/15/22  
SHEETS: 1-19

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**ENGINEER'S SEAL:**

STRUCTURES

SIGNED: *[Signature]*  
DATE: 7/15/22  
SHEETS: 20-36

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS				
BP-3.1	1/21/22	MGS-1.1	7/16/21	DS-1-92	7/15/22	MT-97.10	4/19/19	TC-61.30	7/19/19	800-2019 SEE PROPOSAL 832	ASBESTOS
BP-4.1	7/19/13	MGS-2.1	1/19/18	PSBD-2-07	7/20/18	MT-101.60	1/17/20				11/10/21
		MGS-3.3	7/16/21	TST-2-21	7/16/21	MT-105.10	1/17/20				WATER WAY PERMIT
DM-4.1	7/17/20	MGS-4.2	7/19/13	AS-1-15	7/17/15						3/22/22
DM-4.3	1/15/16			AS-2-15	1/18/19						
DM-4.4	1/15/16			BD-1-11	7/20/18						

APPROVED: *Pat McColley, PE*  
DATE 11/7/2022 DISTRICT DEPUTY DIRECTOR

APPROVED: \_\_\_\_\_  
DATE \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

TITLE SHEET

DESIGN AGENCY	
DESIGNER	AJS
REVIEWER	JDH 07/15/22
PROJECT ID	105652
SHEET	1
TOTAL	36

WOO-281-09.37

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 8/1/2022 TIME: 9:54:36 AM USER: AJScoot F:\37\37674\00\04\_CAD\TRNS\105652\400-Engineering\Roadway\Sheets\105652\_GT001.dgn







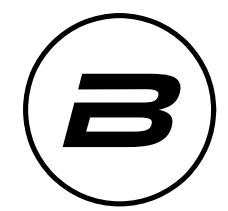


STATION TO STATION	SIDE	LENGTH	AVERAGE WIDTH	SURFACE AREA	CADD GENERATED AREAS	204	301	304	407	442	442	606	606	606	626	202	202	202	202	630
						SUBGRADE COMPACTION	8" ASPHALT CONCRETE BASE, PG64-22, (449)	6" AGGREGATE BASE	NON-TRACKING TACK COAT	2" ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE B (449)	1-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5MM, TYPE B (449)	GUARDRAIL, TYPE MGS	ANCHOR ASSEMBLY, MGS TYPE T	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	BARRIER REFLECTOR, TYPE 5, BI-DIRECTIONAL	PAVEMENT REMOVED	GUARDRAIL REMOVED	ANCHOR ASSEMBLY REMOVED, TYPE T	BRIDGE TERMINAL ASSEMBLY REMOVED	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
						SQ. YD.	CU. YD.	CU. YD.	GAL.	CU. YD.	CU. YD.	FT.	EACH	EACH	EACH	SQ. YD.	FT.	EACH	EACH	EACH
493+25.00	494+25.99	RT.			1,687	202	43	33	21	10	8					162				
493+25.00	494+59.99	LT.			1,978	239	50	39	24	12	9					201				
495+66.37	497+01.00	RT.			1,971	238	50	39	24	12	9					196				
496+00.37	497+01.00	LT.			1,682	204	42	33	21	10	8					165				
494+07.61	494+46.40	RT.										25	1	1	3					
494+32.00	494+81.65	LT.										25	1	1	3					
495+44.71	495+96.00	RT.										37.5	1	1	4					
495+79.96	496+38.45	LT.										37.5	1	1	4					
494+11.64	495+88.02	RT.															183	1	2	
494+51.28	496+41.51	LT.															195	1	2	
496+31.20	496+31.20	LT.																		1
494+25.99	494+48.99	RT.				56		10												
494+59.99	494+84.99	LT.				57		10												
495+41.37	495+66.37	RT.				57		10												
495+77.37	496+00.37	LT.				56		10												
493+60.17	494+60.55	RT.																		
493+86.61	495+13.61	LT.																		
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>						1,109	185	184	90	44	34	125	4	4	14	724	378	2	4	1

SUBSUMMARIES

SHEET NO.	STATION		203	203
	FROM	TO	EXCAVATION CU. YD.	EMBANKMENT CU. YD.
9	493+00.00	493+25.00	0	0
10	493+28.54	493+30.62	21	15
11	493+50.00	493+84.99	181	123
12	493+96.03	494+00.00	32	13
13	494+25.99	494+41.99	64	4
14	495+84.37	496+00.37	33	10
15	496+30.33	496+41.37	110	55
16	496+50.00	496+99.97	107	38
17	497+01.00	497+50.00	1	1
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>			549	259

DESIGN AGENCY



DESIGNER  
AJS

REVIEWER  
JDH 01/24/23

PROJECT ID  
105652

SHEET TOTAL  
7 | 36

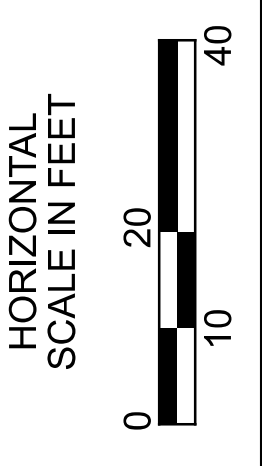
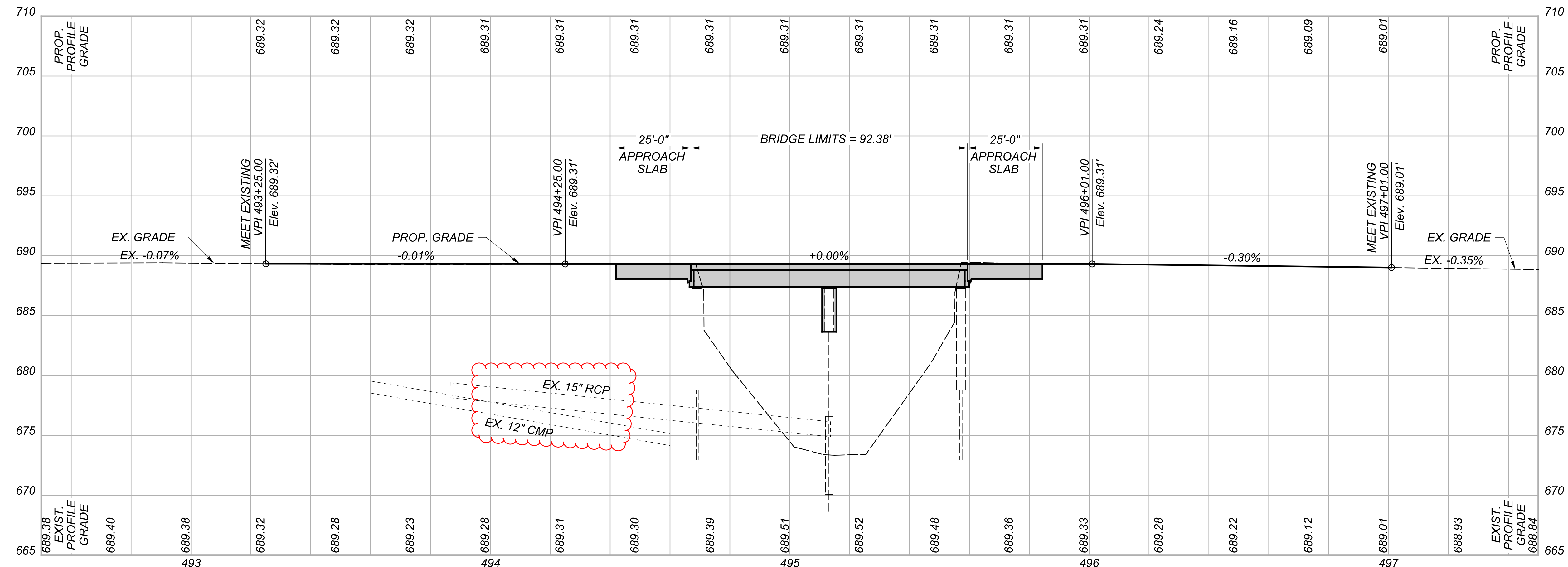
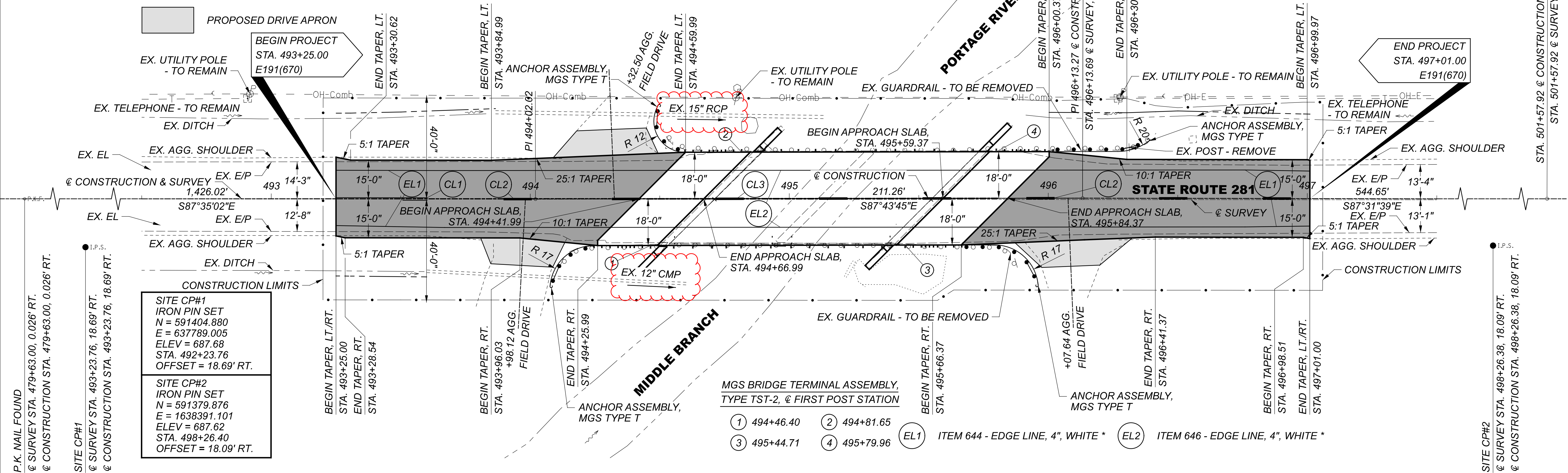


**LEGEND**

- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED DRIVE APRON

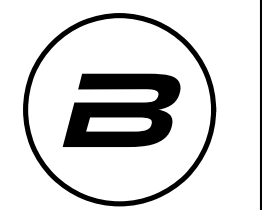
- (CL1) ITEM 644 - CENTER LINE, PASS PROHIBITED RT., 4", YELLOW \*
- (CL2) ITEM 644 - CENTER LINE, DASHED, 4", YELLOW \* (CL3) ITEM 646 - CENTER LINE, DASHED, 4", YELLOW \*

\* WORK WILL BE PERFORMED BY ODOT DISTRICT 2



**PLAN AND PROFILE**  
 STA. 492+50.00 TO STA. 497+50.00

DESIGN AGENCY

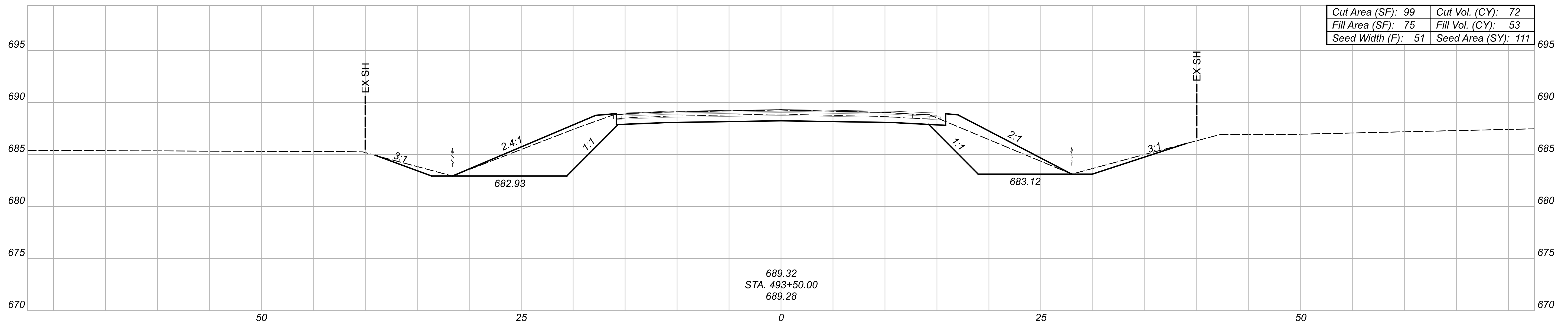
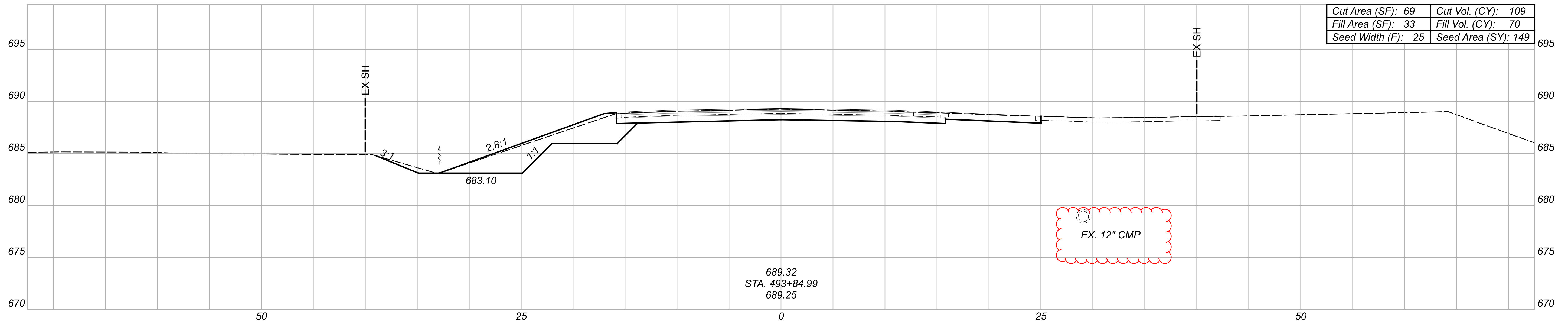


DESIGNER  
 AJS

REVIEWER  
 JDH 01/24/23

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 105652

SHEET TOTAL  
 8 36



CROSS SECTIONS  
 STA. 493+50.00 TO STA. 493+84.99

DESIGN AGENCY



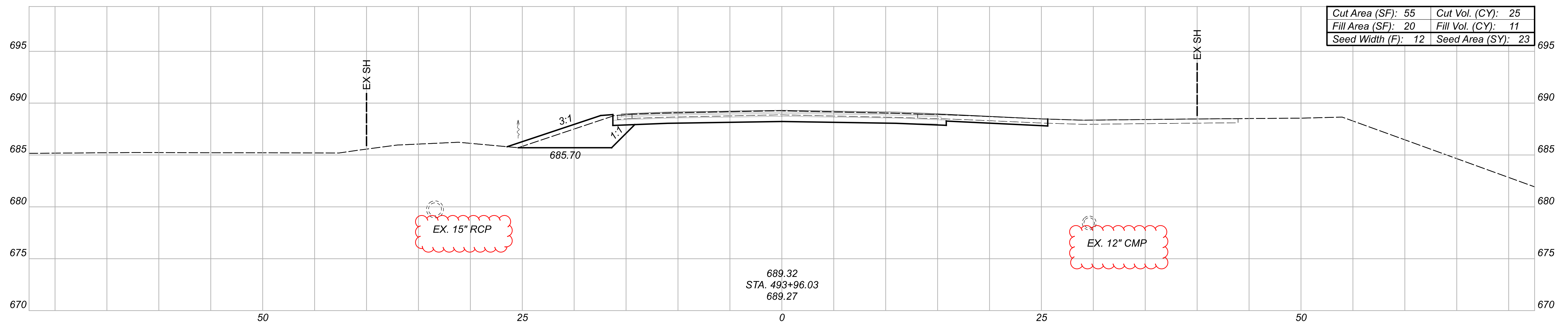
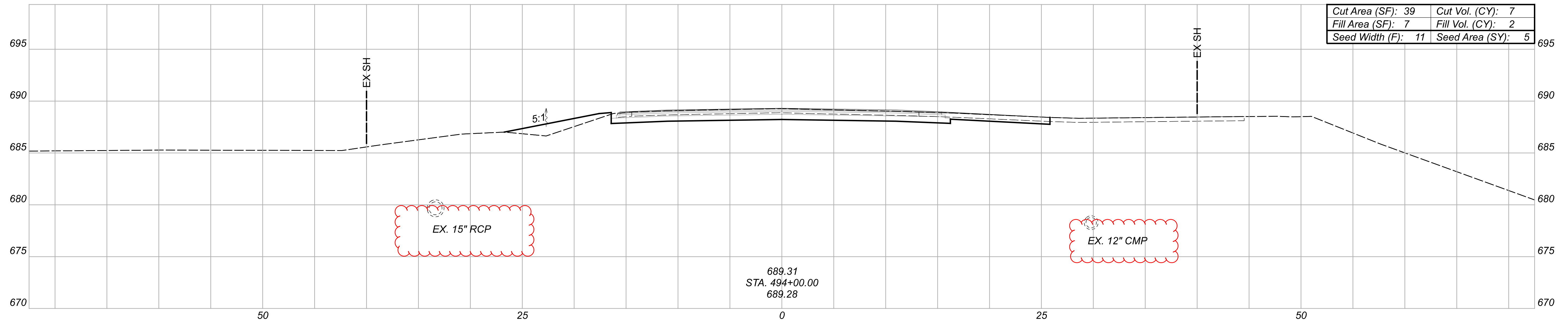
DESIGNER  
 AJS

REVIEWER  
 JDH 01/24/23

PROJECT ID  
 105652

Sheet Totals		
Seeding	Cut	Fill
260	181	123

SHEET	TOTAL
11	36



CROSS SECTIONS  
 STA. 493+96.03 TO STA. 494+00.00

DESIGN AGENCY



DESIGNER  
 AJS

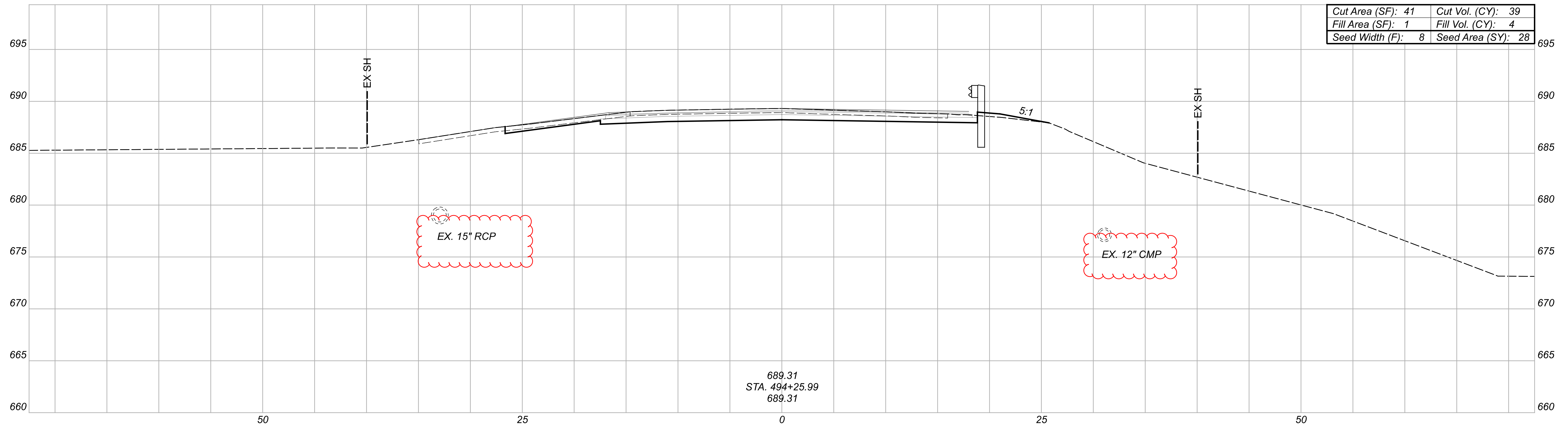
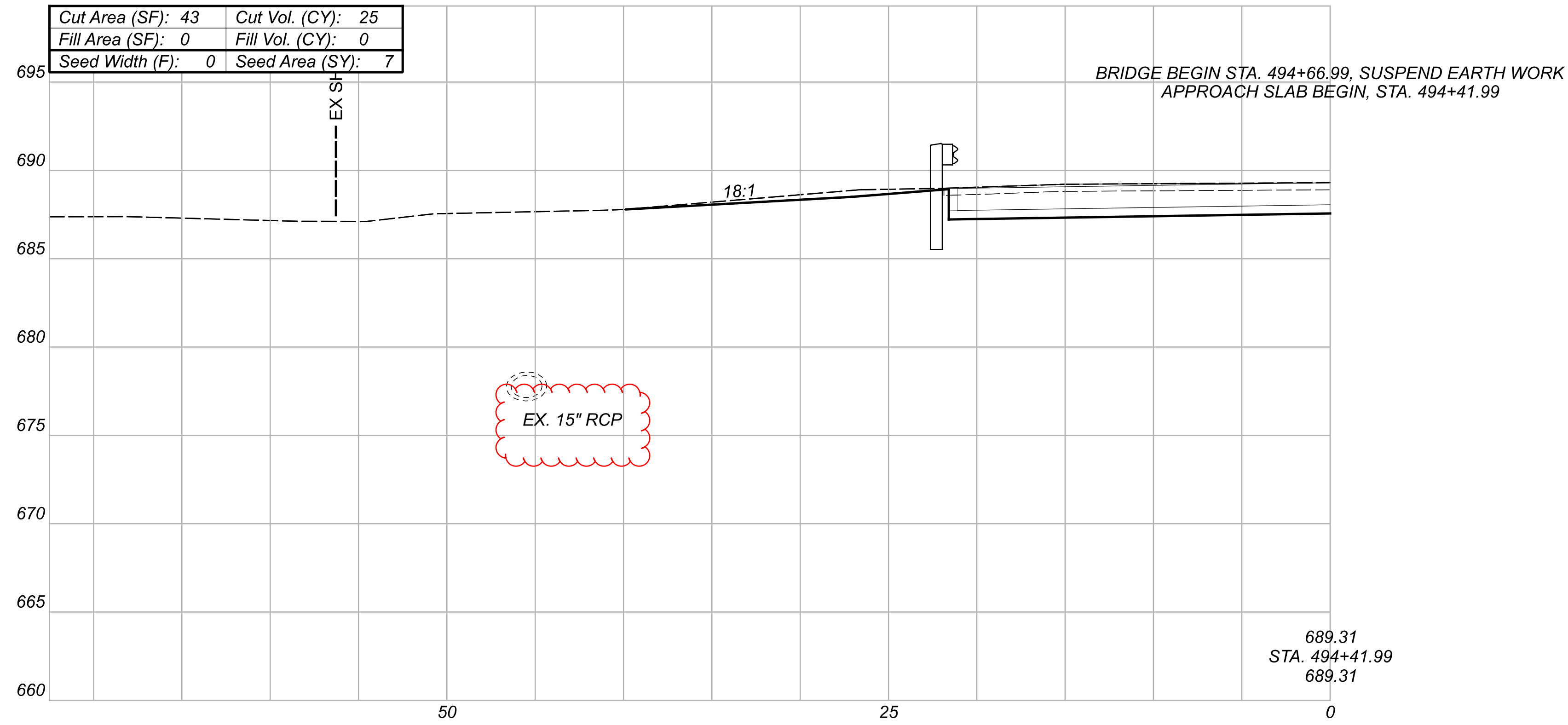
REVIEWER  
 JDH 01/24/23

PROJECT ID  
 105652

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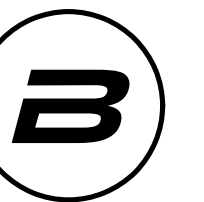
SHEET	TOTAL
12	36





CROSS SECTIONS  
 STA. 494+25.99 TO STA. 494+41.99

DESIGN AGENCY



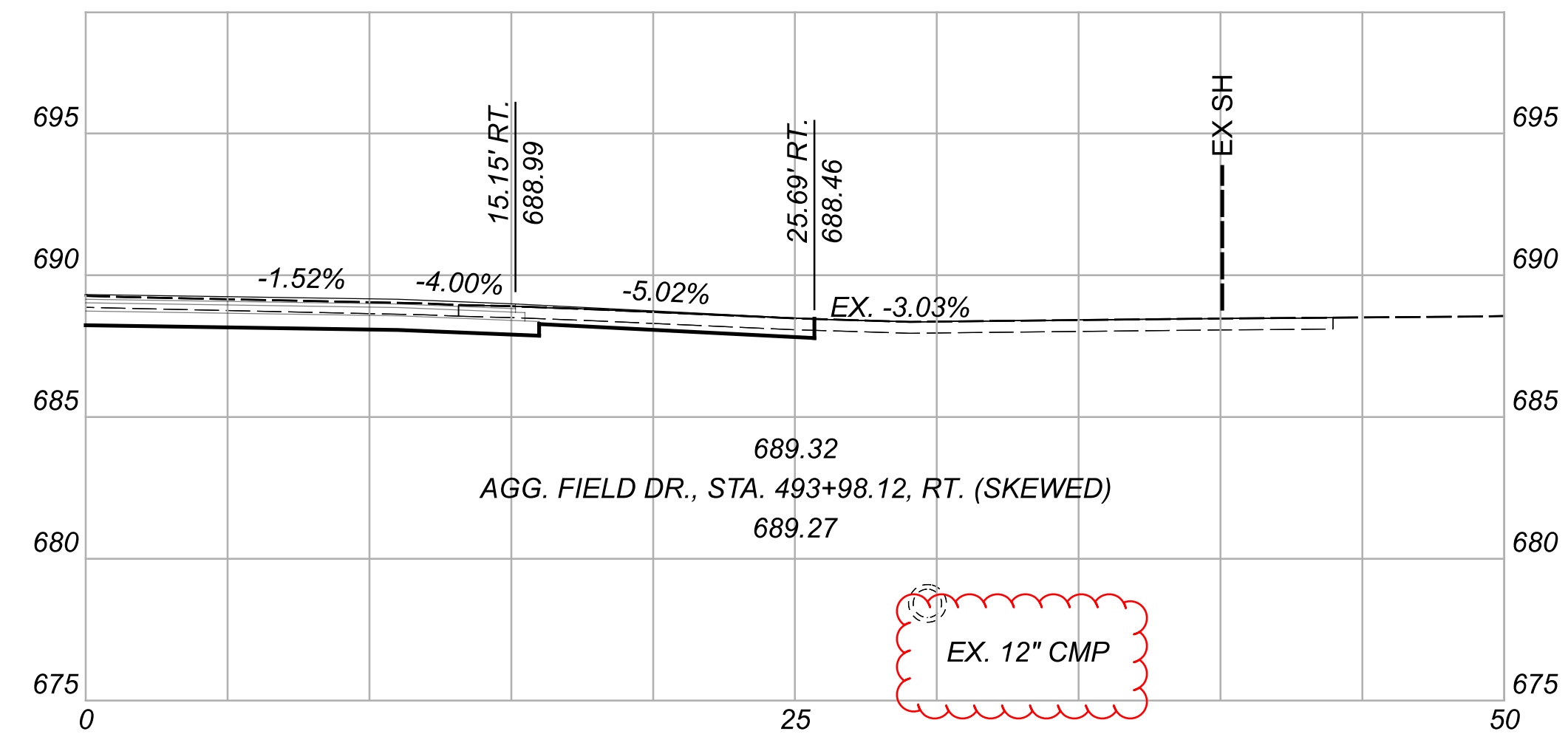
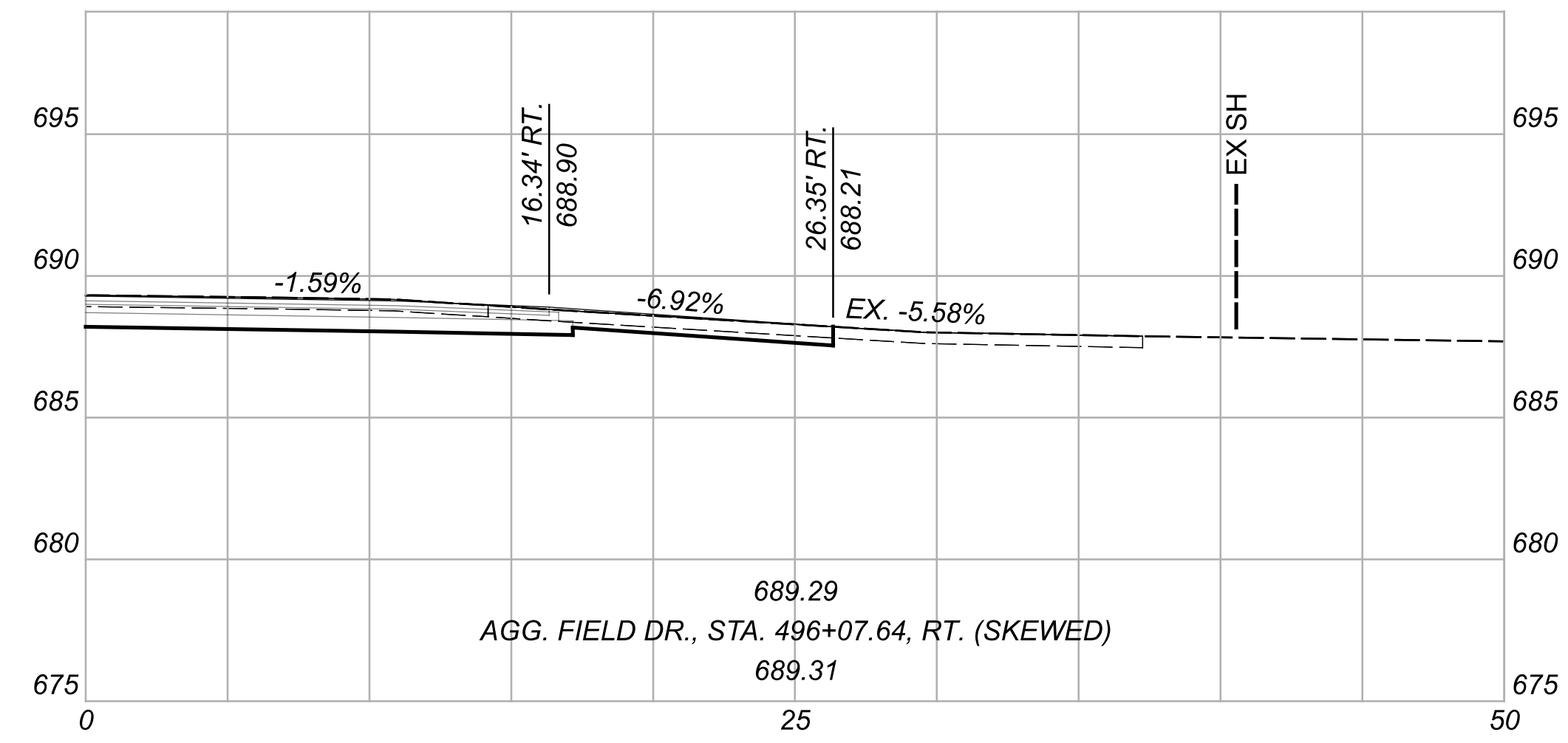
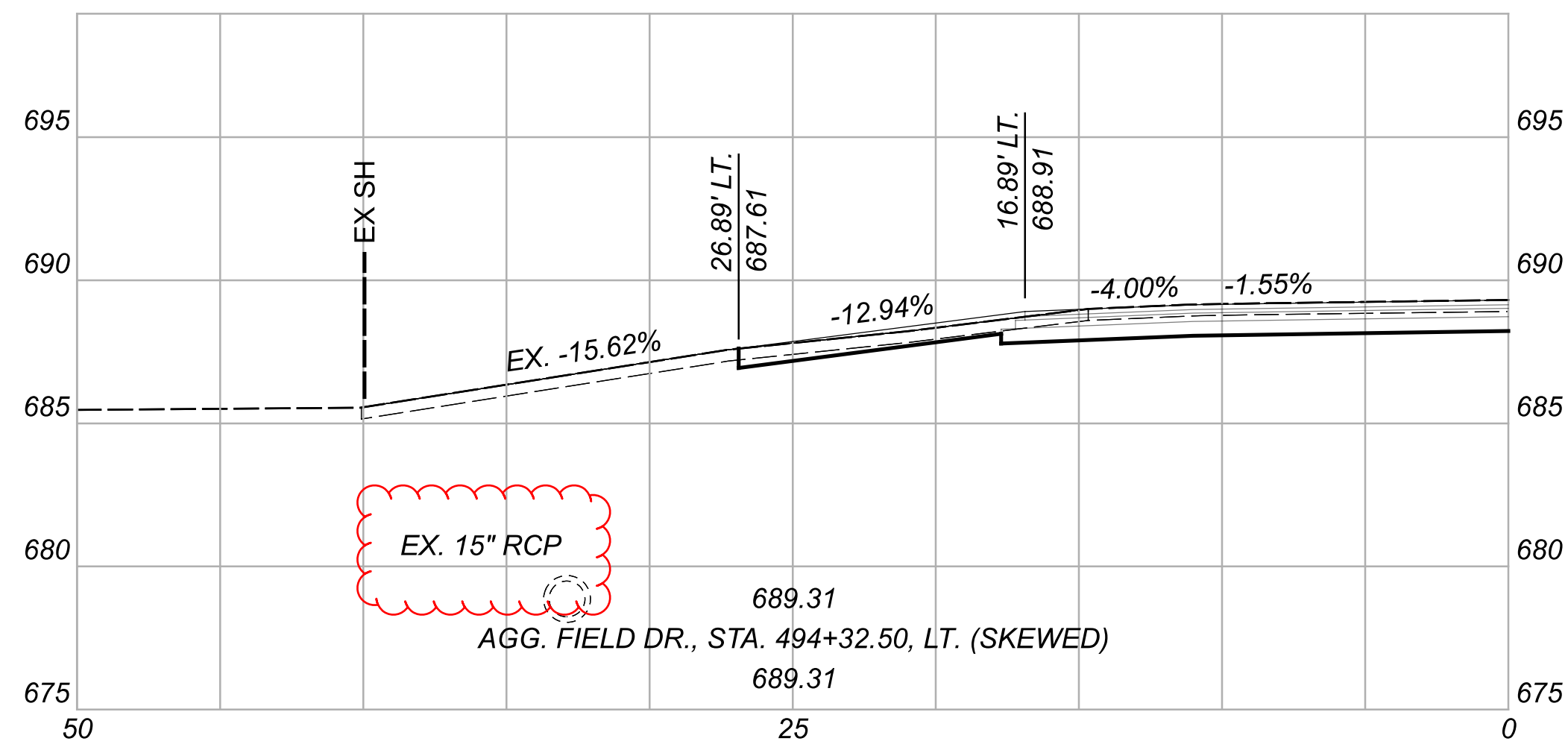
DESIGNER  
 AJS

REVIEWER  
 JDH 01/24/23

PROJECT ID  
 105652

Sheet Totals			105652	
Seeding	Cut	Fill	SHEET	TOTAL
35	64	4	13	36





DRIVE PROFILES

DESIGN AGENCY



DESIGNER

AJS

REVIEWER

JDH 01/24/23

PROJECT ID

105652

SHEET

19

TOTAL

36