

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

HAM - WINTON WOOD  
TO GLENWOOD  
GARDENS TRAIL

SPRINGFIELD TOWNSHIP  
HAMILTON COUNTY

FEDERAL PROJECT NO.: E240426

RAILROAD INVOLVEMENT: NONE

PROJECT DESCRIPTION

CONSTRUCTION OF A SHARED USE TRAIL CONNECTING THE WINTON WOODS PARK TRAIL NETWORK TO CARLSBAD ROAD, SPRINGFIELD PIKE, AND THE WEST FORK MILL CREEK GREENWAY AT GLENWOOD GARDENS PARK.

PROJECT EARTH DISTURBED AREA: 13.49 ACRES

ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.29 ACRES

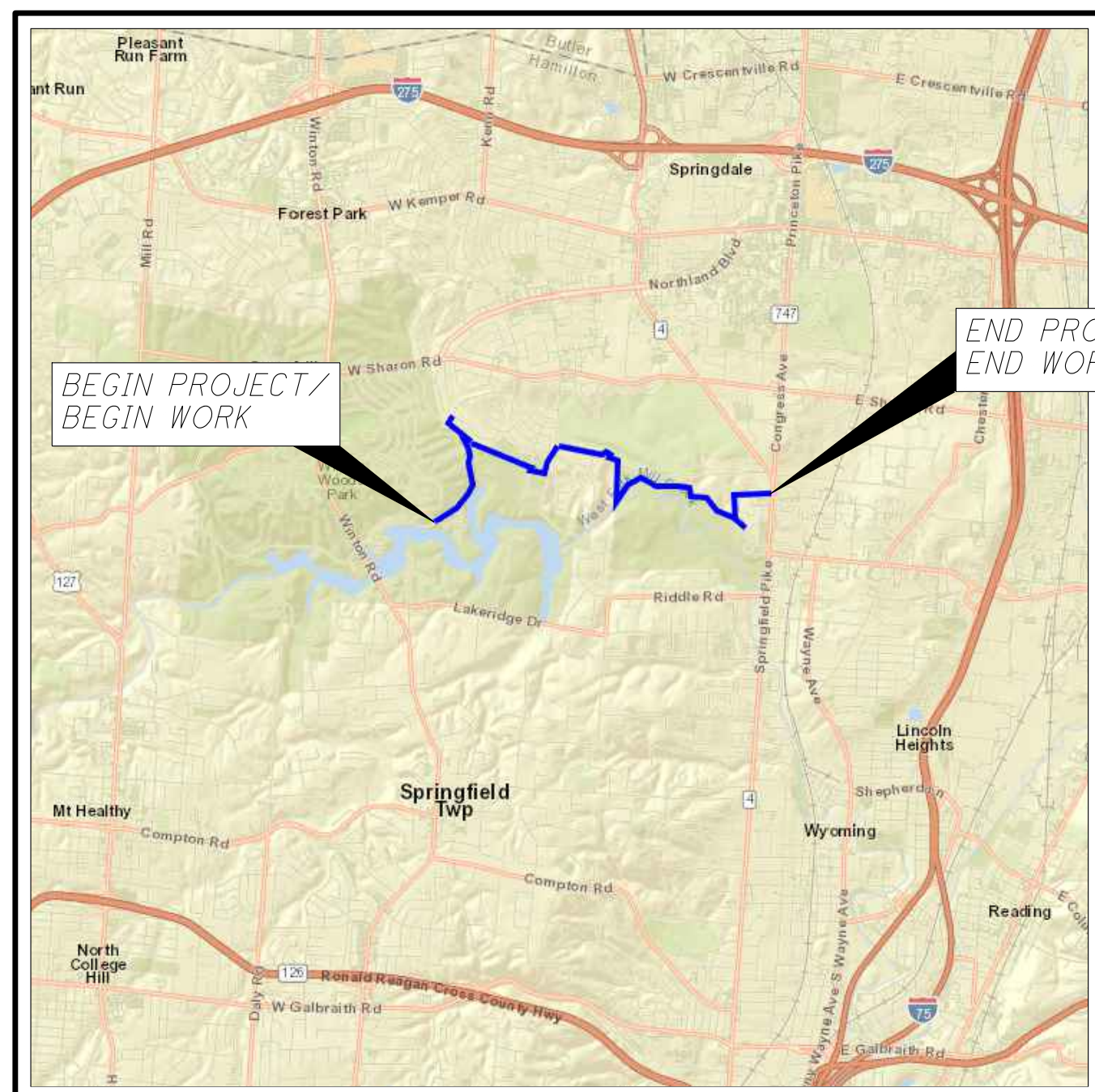
NOTICE OF INTENT EARTH DISTURBED AREA: 13.78 ACRES

2023 SPECIFICATIONS

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

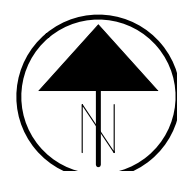
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT

PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



LOCATION MAP

LATITUDE: 39°16'10" LONGITUDE: -84°30'25"



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

DESIGN DESIGNATION

CURRENT ADT (2026)	N/A	MULTIUSE PATH
DESIGN YEAR ADT (2026)	N/A	
DESIGN HOURLY VOLUME (2046)	N/A	
DIRECTIONAL DISTRIBUTION	N/A	
TRUCKS (24 HOUR B&C)	N/A	
DESIGN SPEED	15 MPH	
LEGAL SPEED	N/A	
DESIGN FUNCTIONAL CLASSIFICATION:	RECUMBENT BICYCLE	
NHS PROJECT	N/A	

DESIGN EXCEPTIONS NONE

ADA DESIGN WAIVERS NONE

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STAGE 2 PLANS

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:



700 Broadway Street TEL 513 621 6211  
Cincinnati, OH 45202-6010 FAX 513 621 6530



ENGINEERS SEAL:

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP 3.1	1/19/24	CB 2-2A	1/20/23	TC 41.20	10/18/13	HL 10.13	1/20/23	800	1/19/24
BP 4.1	7/19/13			TC 41.30	4/21/23	HL 20.11	7/21/23	832	7/21/23
BP 5.1	7/15/23	HW 2.1	7/15/22	TC 41.40	10/18/13			836	1/19/24
BP 7.1	1/19/24			TC 42.10	10/18/13	MT 97.10	1/20/17	838	1/15/21
		DM 1.1	7/17/20	TC 42.20	10/18/13	MT 97.12	4/19/19	851	1/21/22
RM 5.1	7/18/14	DM 1.2	7/16/21	TC 52.10	10/18/13	MT 101.6	4/21/23	870	7/21/23
RM 5.2	7/21/23	DM 4.3	1/15/16	TC 52.20	1/15/21	MT 101.9	4/21/23	878	1/21/22
		DM 4.4	1/15/16	TC 65.10	1/17/24	MT 105.10	1/17/20	880	1/21/22
F 1.1	7/19/13			TC 65.11	1/19/24	MT 110.10	7/19/13	884	10/19/18
		EXJ 3.82	1/18/13	TC 68.10	7/21/23			902	7/19/19
				TC 71.10	4/21/13				
				TC 74.10	7/12/23				
				TC 87.10	7/21/23				

ENGINEERS SEAL:

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DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

SCR

REVIEWER

SCR 3/29/2024

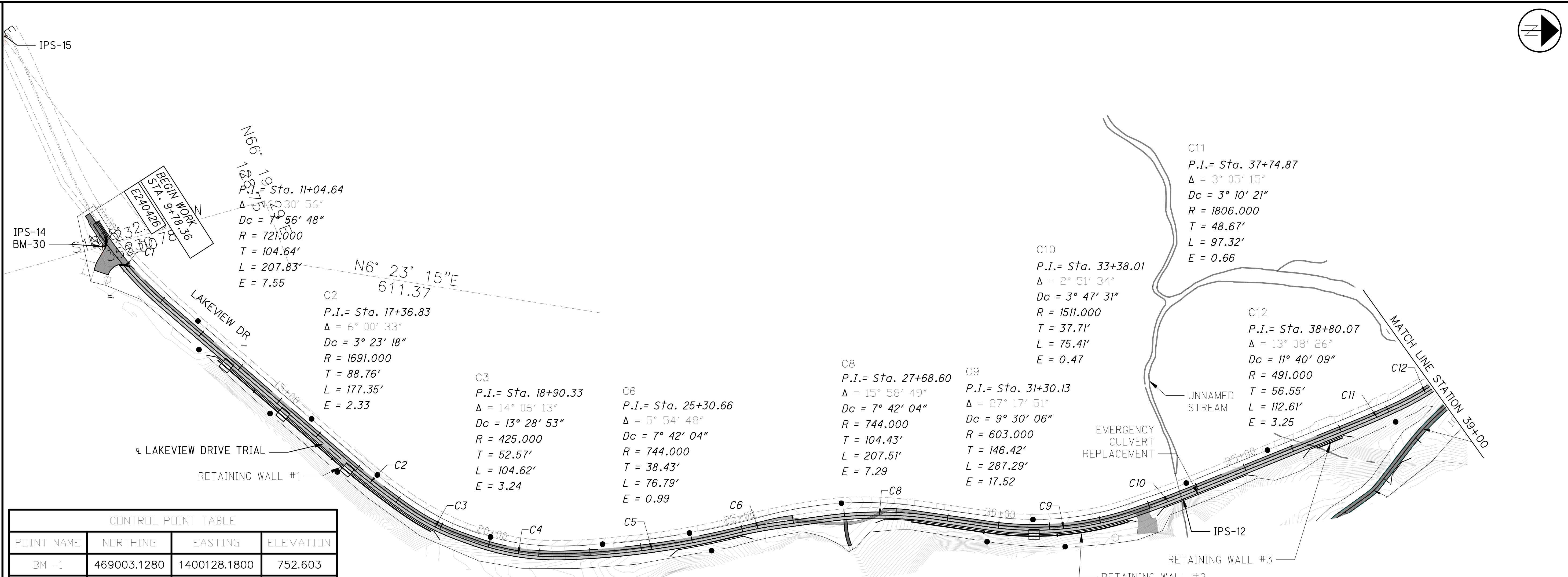
PROJECT ID

117016

SHEET TOTAL

P.01 210





CONTROL POINT TABLE

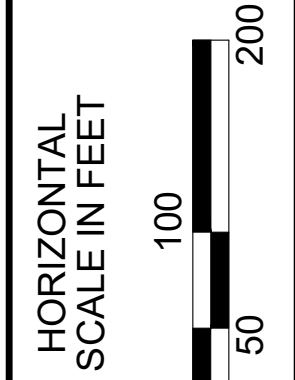
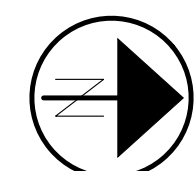
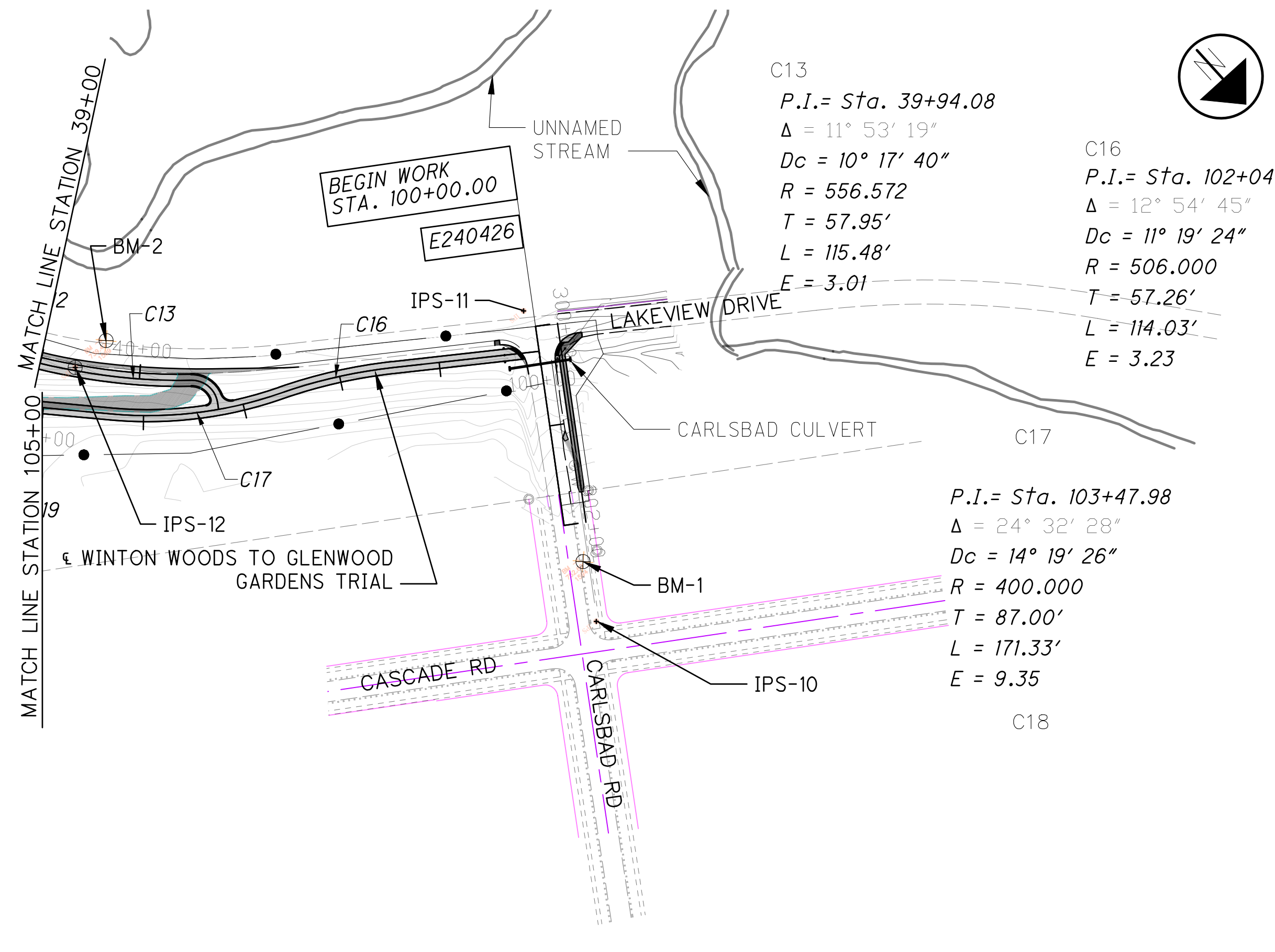
POINT NAME	NORTHING	EASTING	ELEVATION
BM -1	469003.1280	1400128.1800	752.603
BM -2	468531.7240	1400354.1900	739.420
BM -6	464146.0510	1410752.2950	612.380
BM -7	464175.1000	1410490.2020	623.618
BM 20	466253.1780	1410178.4370	652.300
BM 21	465918.5360	1409624.3200	628.310
BM 22	465523.8040	1409165.6770	607.690
BM 23	466149.7490	1408307.5900	613.060
BM 24	466457.1540	1407714.4480	619.400
BM 25	466797.2220	1406787.8510	616.050
BM 26	467369.1450	1405798.9020	632.750
BM 27	467851.8930	1403680.7840	707.740
BM 28	467066.2760	1402777.3950	732.940
BM 29	468532.8460	1400394.9110	738.680
BM 30	465912.4970	1400269.2970	706.350
IPS-10	469057.4220	1400155.8270	751.539
IPS-12	468532.8460	1400394.9110	738.684
IPS-14	465912.4970	1400269.2970	706.349
IPS-15	465704.3260	1399870.9740	706.825
IPS-16	467851.8930	1403680.7840	707.745
IPS-17	468533.2820	1403702.8120	706.236
IPS-18	467745.4360	1404217.1820	703.792
IPS-19	467584.8910	1404856.5750	696.046
IPS-21	467020.4250	1406390.7450	621.563
IPS-22	466797.2220	1406787.8510	616.053
IPS-24	466757.4830	1407565.7880	627.775
IPS-25	466457.1540	1407714.4480	619.399
IPS-26	466104.4620	1408608.0290	612.726
IPS-27	465933.0930	1408799.1060	611.216
IPS-28	465724.9230	1408894.9040	608.323
IPS-29	465523.8040	1409165.6770	607.690
IPS-30	465279.6650	1409817.5680	634.139
IPS-32	464002.0230	1410551.4930	609.030
IPS-33	463977.3490	1410744.0120	603.350
IPS-35	467066.2760	1402777.3950	732.945
IPS-36	467369.8670	1402169.1240	739.799
IPS-60	467369.1450	1405798.9020	632.747
IPS-61	467215.8840	1405904.3840	629.485
IPS 11	468773.2200	1400015.0920	742.496

CONTROL POINT TABLE

POINT NAME	NORTHING	EASTING	ELEVATION
IPS-22	466797.2220	1406787.8510	616.053
IPS-24	466757.4830	1407565.7880	627.775
IPS-25	466457.1540	1407714.4480	619.399
IPS-26	466104.4620	1408608.0290	612.726
IPS-27	465933.0930	1408799.1060	611.216
IPS-28	465724.9230	1408894.9040	608.323
IPS-29	465523.8040	1409165.6770	607.690
IPS-30	465279.6650	1409817.5680	634.139
IPS-32	464002.0230	1410551.4930	609.030
IPS-33	463977.3490	1410744.0120	603.350
IPS-35	467066.2760	1402777.3950	732.945
IPS-36	467369.8670	1402169.1240	739.799
IPS-60	467369.1450	1405798.9020	632.747
IPS-61	467215.8840	1405904.3840	629.485
IPS 11	468773.2200	1400015.0920	742.496

Curve Table: Alignments

Curve #	PC STA.	PT STA.
C1	10+00.00	12+07.83
C2	16+48.07	18+25.42
C3	18+37.75	19+42.37
C4	19+71.89	21+48.82
C5	21+48.82	24+92.23
C6	24+92.23	25+69.02
C8	26+64.17	28+71.67
C9	29+83.71	32+71.00
C10	33+00.30	33+75.70
C11	37+26.20	38+23.52
C12	38+23.52	39+36.13
C13	39+36.13	40+51.61
C16	101+46.94	102+60.98
C17	102+60.98	104+32.31

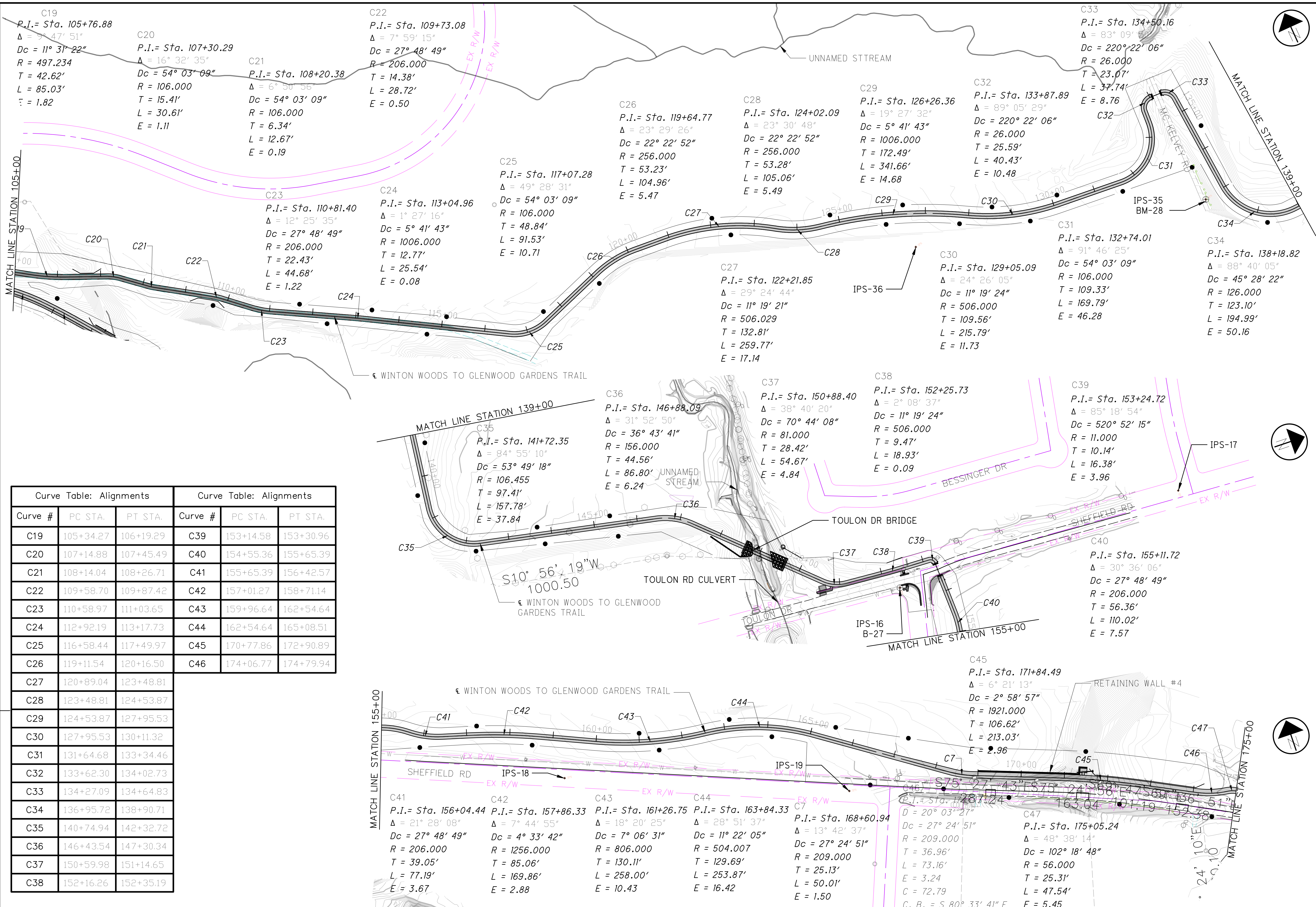


SCHEMATIC PLAN - LAKEVIEW DRIVE TRAIL, CARLSBAD RD, AND WINTON WOODS TO GLENWOOD GARDENS TRAIL

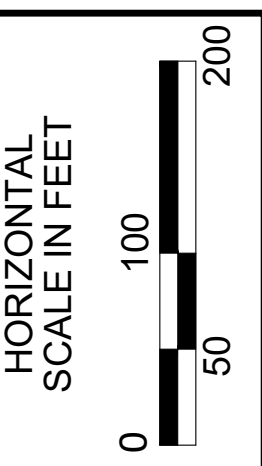
DESIGN AGENCY  
**KZFJ-SIGN**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 SCR  
 REVIEWER  
 SCR 3/29/2024  
 PROJECT ID  
 117016  
 SHEET TOTAL  
 P.02 210



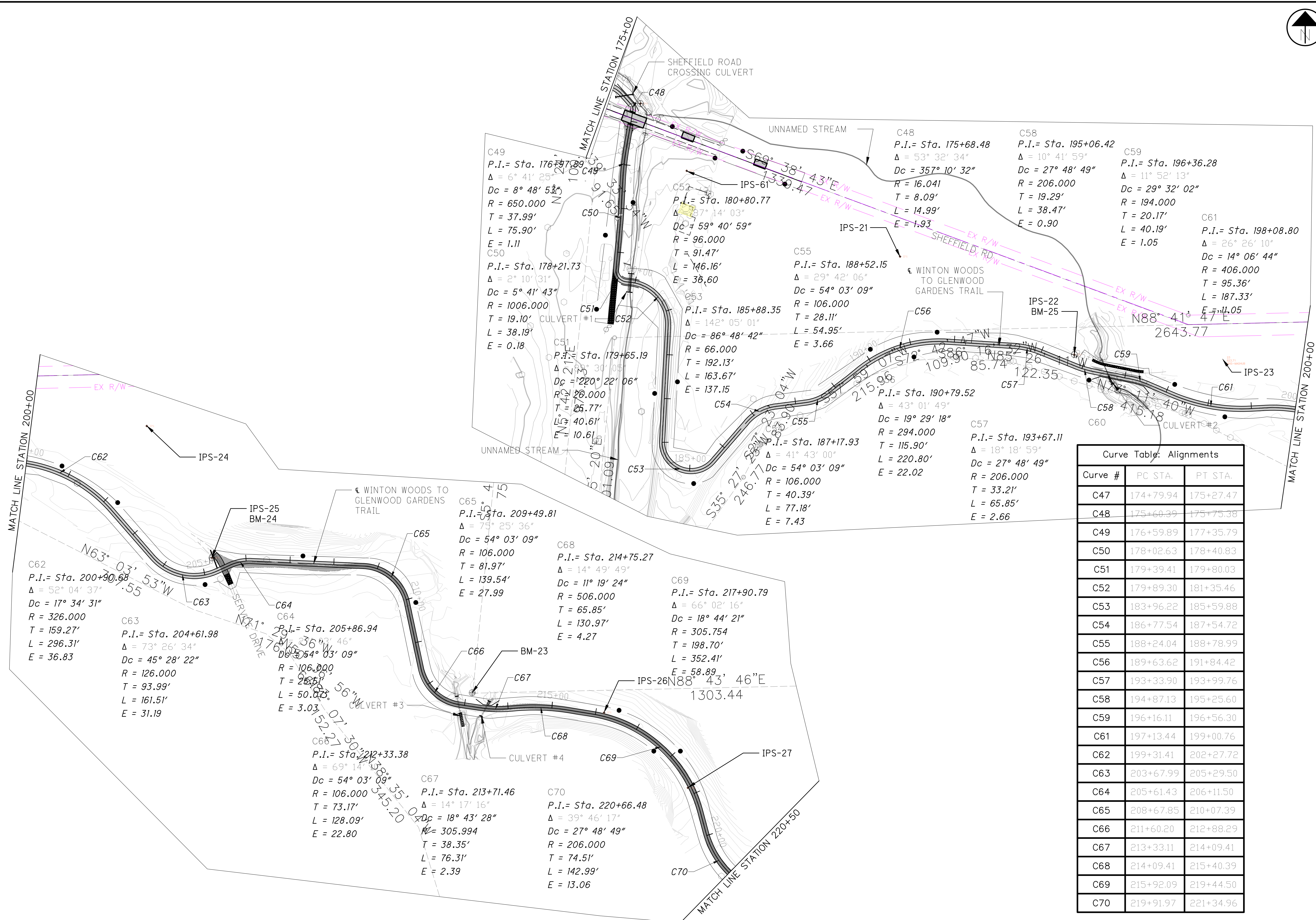


Curve Table: Alignments			Curve Table: Alignments		
Curve #	PC STA.	PT STA.	Curve #	PC STA.	PT STA.
C19	105+34.27	106+19.29	C39	153+14.58	153+30.96
C20	107+14.88	107+45.49	C40	154+55.36	155+65.39
C21	108+14.04	108+26.71	C41	155+65.39	156+42.57
C22	109+58.70	109+87.42	C42	157+01.27	158+71.14
C23	110+58.97	111+03.65	C43	159+96.64	162+54.64
C24	112+92.19	113+17.73	C44	162+54.64	165+08.51
C25	116+58.44	117+49.97	C45	170+77.86	172+90.89
C26	119+11.54	120+16.50	C46	174+06.77	174+79.94
C27	120+89.04	123+48.81			
C28	123+48.81	124+53.87			
C29	124+53.87	127+95.53			
C30	127+95.53	130+11.32			
C31	131+64.68	133+34.46			
C32	133+62.30	134+02.73			
C33	134+27.09	134+64.83			
C34	136+95.72	138+90.71			
C35	140+74.94	142+32.72			
C36	146+43.54	147+30.34			
C37	150+59.98	151+14.65			
C38	152+16.26	152+35.19			

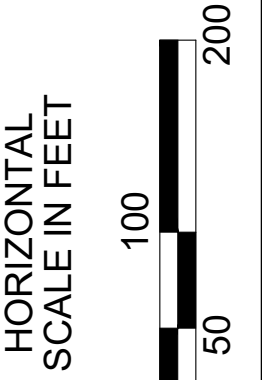


SCHEMATIC PLAN  
WINTON WOODS TO GLENWOOD GARDENS TRAIL





Curve Table: Alignments		
Curve #	PC STA.	PT STA.
C47	174+79.94	175+27.47
C48	175+60.39	175+75.38
C49	176+59.89	177+35.79
C50	178+02.63	178+40.83
C51	179+39.41	179+80.03
C52	179+89.30	181+35.46
C53	183+96.22	185+59.88
C54	186+77.54	187+54.72
C55	188+24.04	188+78.99
C56	189+63.62	191+84.42
C57	193+33.90	193+99.76
C58	194+87.13	195+25.60
C59	196+16.11	196+56.30
C61	197+13.44	199+00.76
C62	199+31.41	202+27.72
C63	203+67.99	205+29.50
C64	205+61.43	206+11.50
C65	208+67.85	210+07.39
C66	211+60.20	212+88.29
C67	213+33.11	214+09.41
C68	214+09.41	215+40.39
C69	215+92.09	219+44.50
C70	219+91.97	221+34.96



SCHEMATIC PLAN  
 WINTON WOODS TO GLENWOOD GARDENS TRAIL

DESIGN AGENCY	
<b>KZFJ-SIG</b> Designing Better Futures	
700 Broadway Street Cincinnati, OH 45202-6010 TEL 513 621 6211 FAX 513 621 6530	
DESIGNER	
SCR	
REVIEWER	
SCR 3/29/2024	
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117016	
SHEET	TOTAL
P.04	210

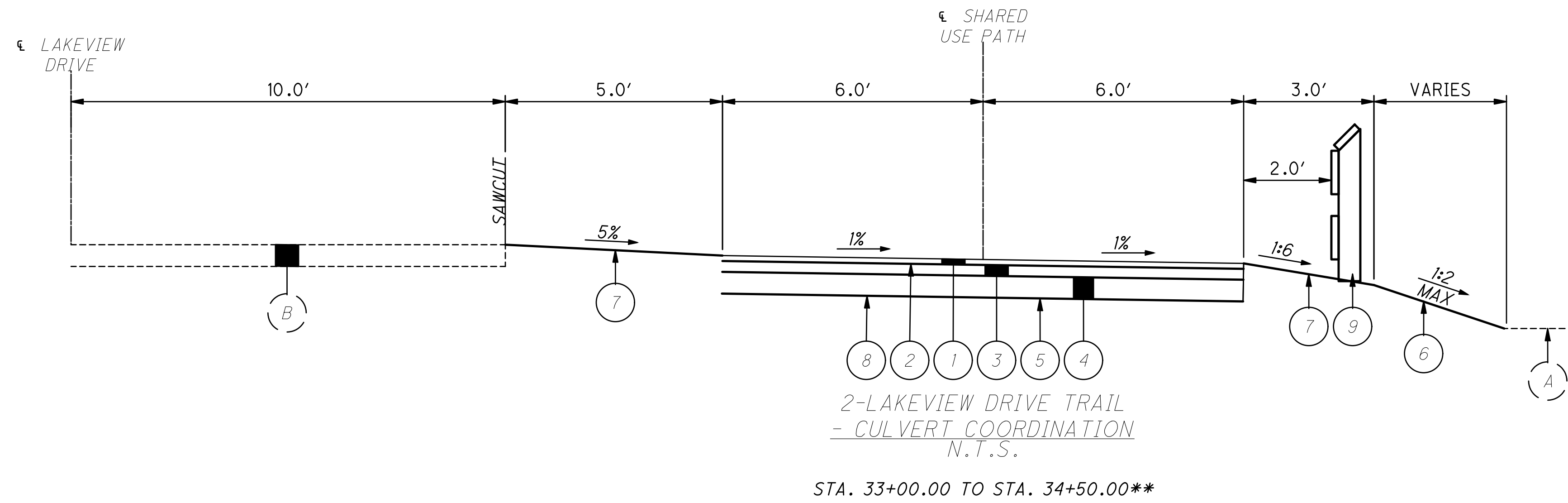




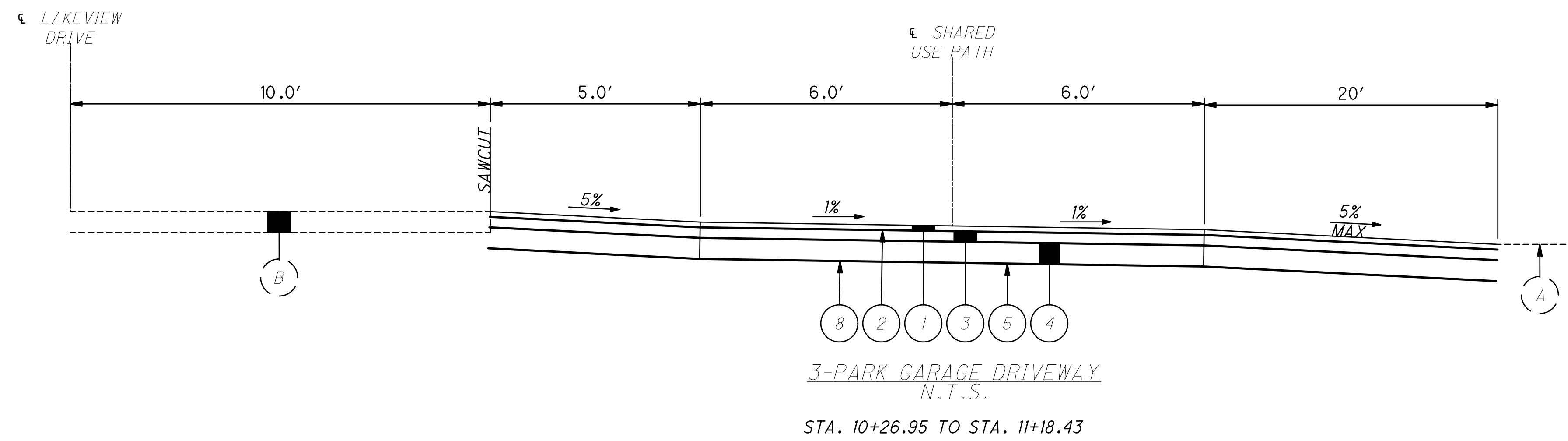
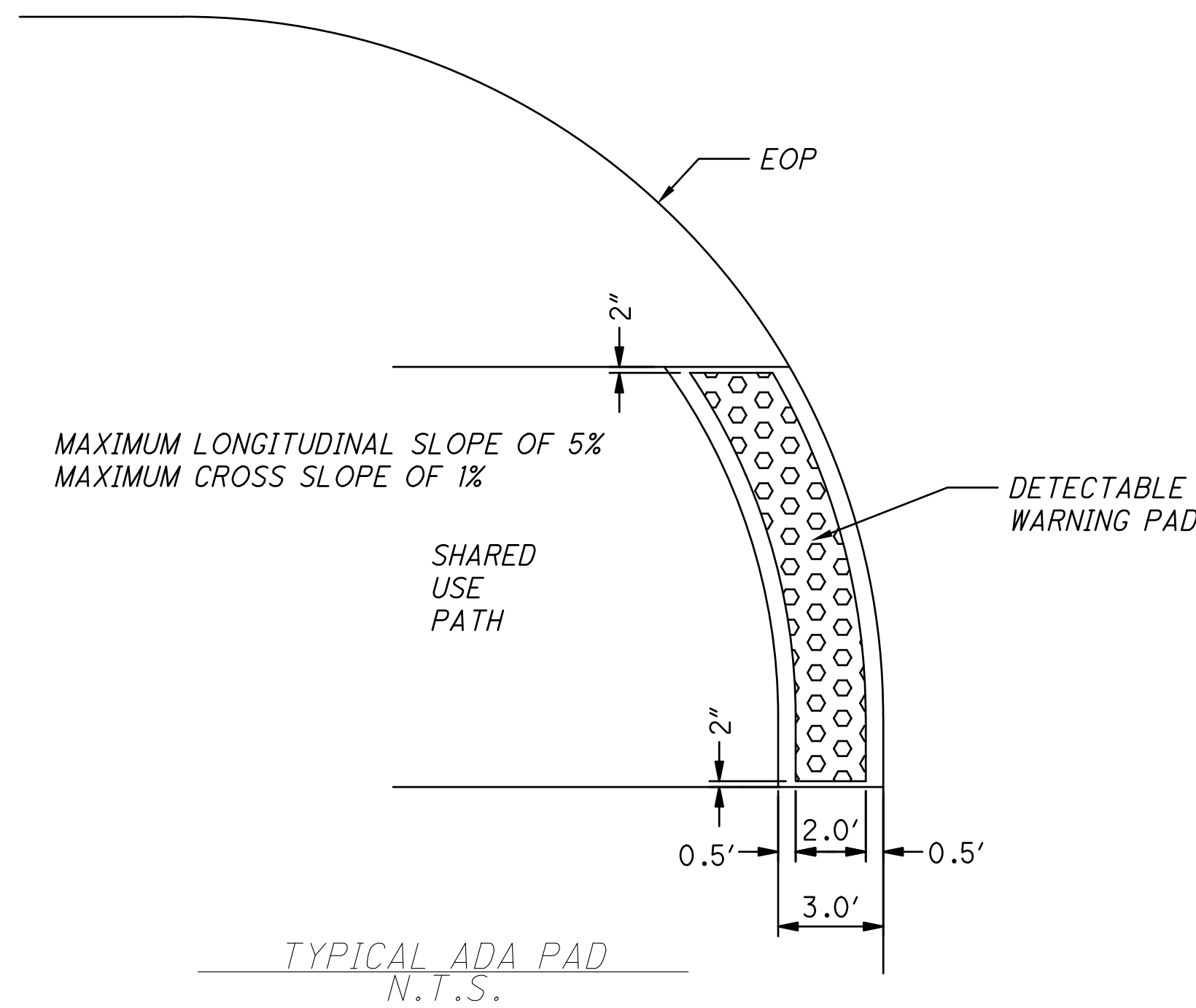








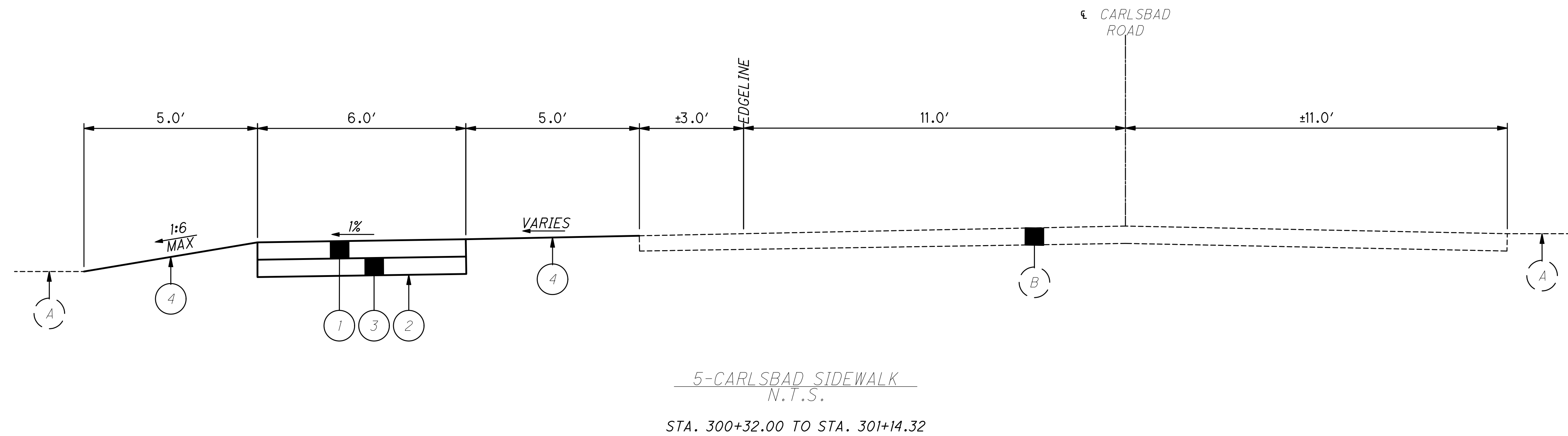
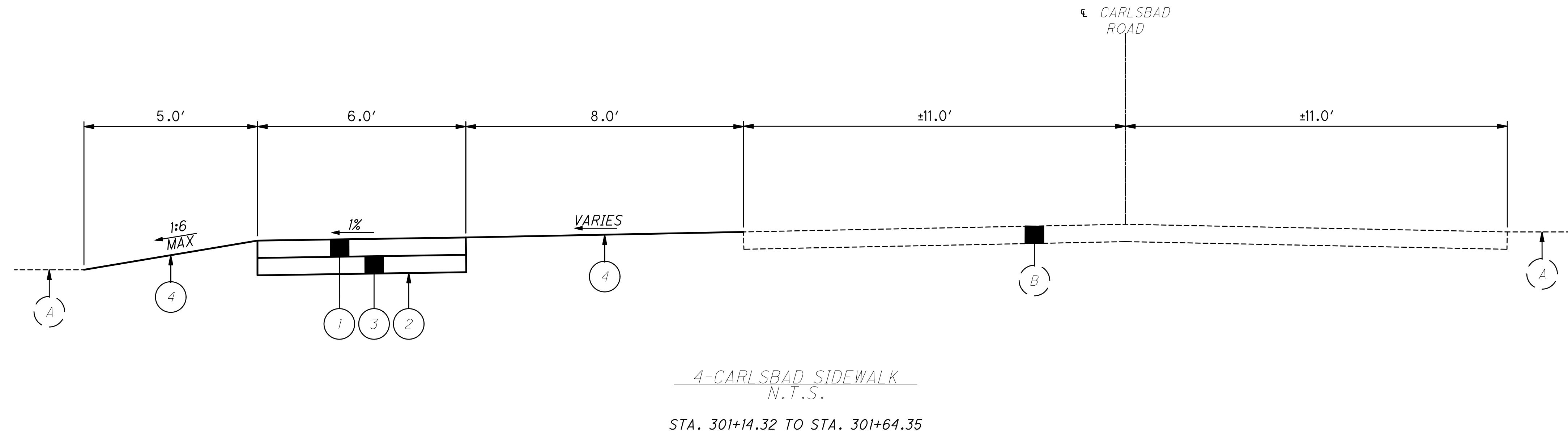
\*\*SECTION TO BE COORDINATED WITH CULVERT REPLACEMENT PROJECT



ITEM LEGEND

- |   |                                   |  |                    |
|---|-----------------------------------|--|--------------------|
| ① ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 | ④ ITEM 304 - 6" AGGREGATE BASE    | ⑦ ITEM 209 - LINEAR GRADING, AS PER PLAN | Ⓐ EXISTING GRADE   |
| ② ITEM 407 - TACK COAT (APPLIED @ 0.06 GAL/SQ YD)                           | ⑤ ITEM 204 - SUBGRADE COMPACTION  | ⑧ ITEM 204 - PROOF ROLLING               | Ⓑ EXISTING ROADWAY |
| ③ ITEM 301 - 3" ASPHALT CONCRETE BASE, (449), PG64-22                       | ⑥ ITEM 659 - SEEDING AND MULCHING | ⑨ ITEM 607 - FENCE MISC.: RAILING        |                    |





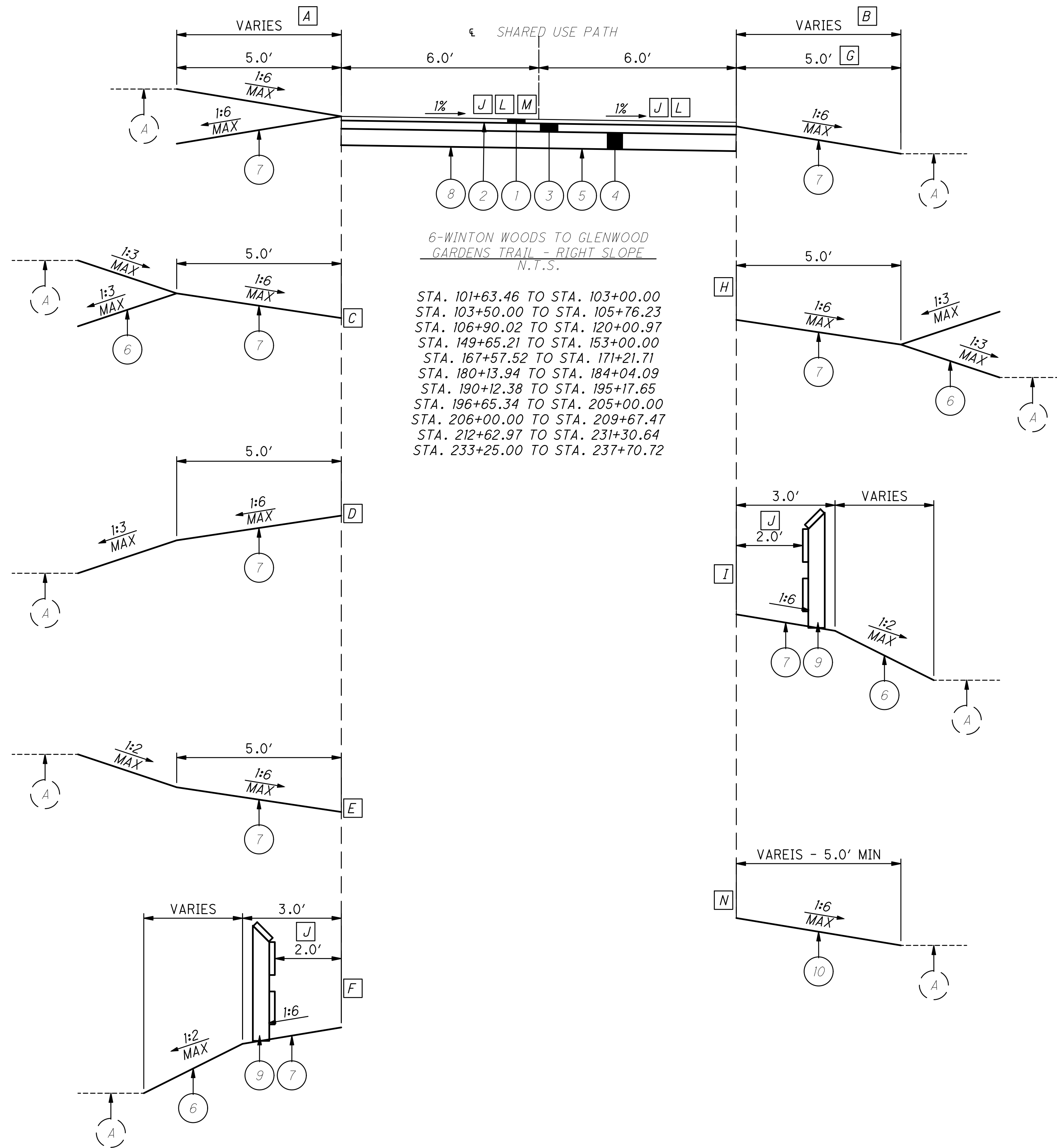
ITEM LEGEND

- ① ITEM 608 - 5" CONCRETE SIDEWALK
- ② ITEM 204 - SUBGRADE COMPACTION
- ③ ITEM 304 - 6" AGGREGATE BASE

- ④ ITEM 659 - SEEDING AND MULCHING

- Ⓐ EXISTING GRADE
- Ⓑ EXISTING ROADWAY





- A** STA. 109+24.90 TO STA. 110+14.20  
 STA. 149+65.21 TO STA. 150+12.53  
 STA. 181+00.00 TO STA. 181+35.46  
 STA. 225+69.14 TO STA. 226+84.48  
 STA. 229+88.65 TO STA. 231+30.64
- B** STA. 101+63.46 TO STA. 103+00.00  
 STA. 103+50.00 TO STA. 105+34.27  
 STA. 114+52.45 TO STA. 115+24.91  
 STA. 149+65.21 TO STA. 150+12.53  
 STA. 206+00.00 TO STA. 206+75.00
- C** STA. 101+63.46 TO STA. 103+00.00  
 STA. 103+50.00 TO STA. 105+76.23  
 STA. 110+14.20 TO STA. 110+85.74  
 STA. 151+25.41 TO STA. 152+16.26  
 STA. 181+35.46 TO STA. 184+04.09  
 STA. 196+65.34 TO STA. 197+19.54  
 STA. 234+71.09 TO STA. 235+67.89  
 STA. 236+87.85 TO STA. 237+48.54
- D** STA. 180+13.94 TO STA. 181+00.00
- E** STA. 226+84.48 TO STA. 228+75.76
- F** STA. 213+23.44 TO STA. 213+79.66  
 STA. 228+75.76 TO STA. 229+88.65
- G** VARIES TO BACK OF EXISTING CURB  
 ALONG TOULON ROAD. TYPICAL 8'  
 STA. 151+00 TO STA. 153+00
- H** STA. 109+97.06 TO STA. 110+85.74  
 STA. 180+13.94 TO STA. 184+04.09  
 STA. 196+65.34 TO STA. 197+19.54  
 STA. 213+04.51 TO STA. 213+66.51  
 STA. 227+93.87 TO STA. 228+83.87
- I** STA. 228+83.87 TO STA. 229+88.65
- N** STA. 224+54.50 TO STA. 225+05.42
- J** VARIES FOR RAILING FLARED END  
 STA. 109+13.96 TO STA. 109+31.28  
 STA. 109+79.55 TO STA. 109+97.06  
 STA. 213+23.44 TO STA. 213+41.74  
 STA. 213+62.19 TO STA. 213+79.66
- K** TRANSITIONS FROM 1% TO 0%  
 STA. 105+71.23 TO STA. 105+76.23  
 STA. 195+95.97 TO STA. 120+00.97  
 STA. 183+99.09 TO STA. 184+04.09  
 STA. 209+62.47 TO STA. 209+67.47  
 STA. 231+25.64 TO STA. 231+30.64
- L** TRANSITIONS FROM 0% TO 1%  
 STA. 106+90.02 TO STA. 106+95.02  
 STA. 167+57.52 TO STA. 167+62.52  
 STA. 190+12.38 TO STA. 190+17.38  
 STA. 212+62.97 TO STA. 212+67.97  
 STA. 233+50.00 TO STA. 233+55.00
- M** TRANSITIONS FROM -1% TO 1%  
 STA. 180+03.94 TO STA. 108+13.94

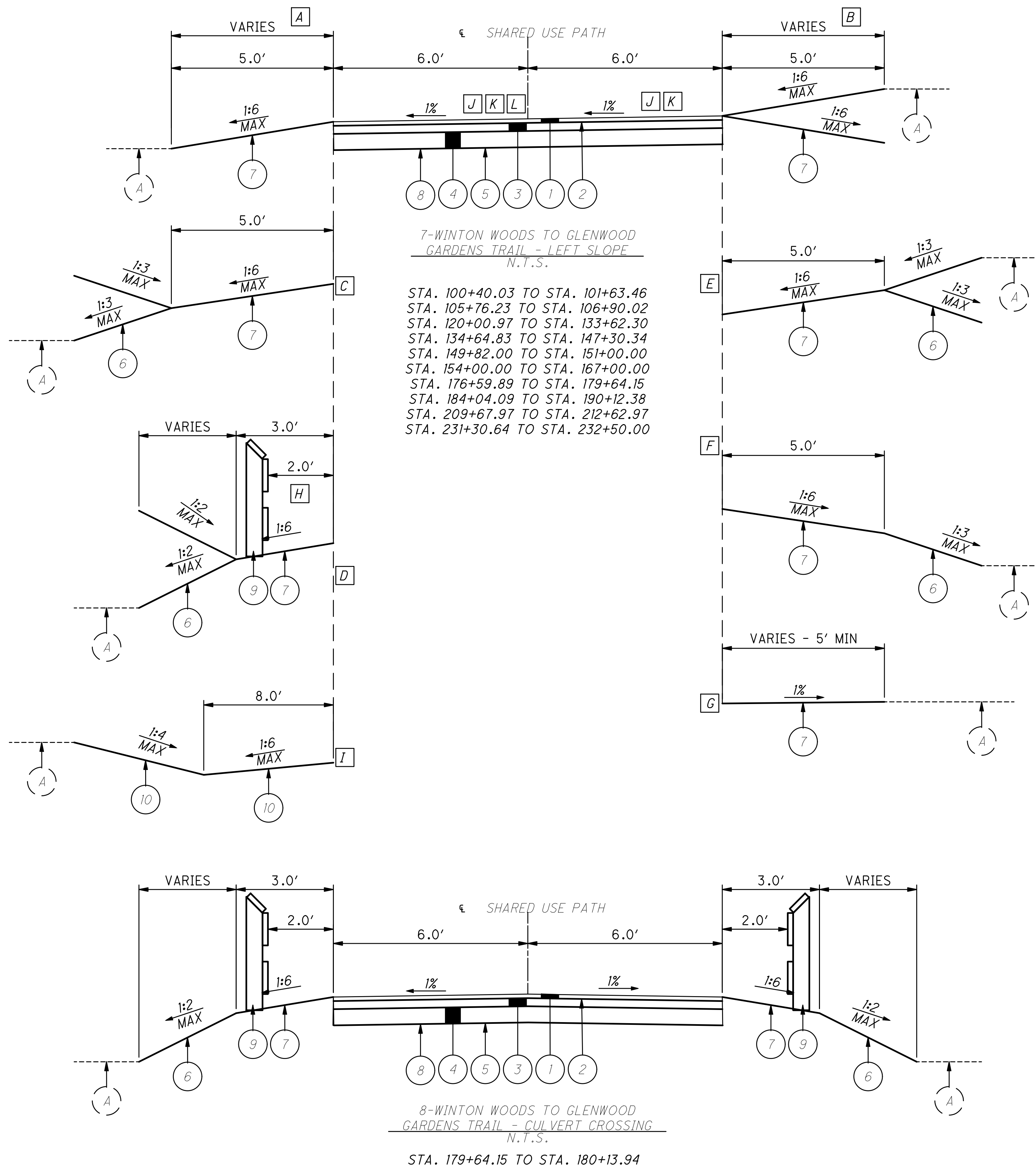
ITEM LEGEND

- |   |                                   |  |  |
|---|-----------------------------------|--|--|
| 1 ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 | 4 ITEM 304 - 6" AGGREGATE BASE    | 7 ITEM 209 - LINEAR GRADING, AS PER PLAN | 10 ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT |
| 2 ITEM 407 - TACK COAT (APPLIED @ 0.06 GAL/SQ YD)                           | 5 ITEM 204 - SUBGRADE COMPACTION  | 8 ITEM 204 - PROOF ROLLING               | (A) EXISTING GRADE   |
| 3 ITEM 301 - 3" ASPHALT CONCRETE BASE, (449), PG64-22                       | 6 ITEM 659 - SEEDING AND MULCHING | 9 ITEM 607 - FENCE MISC.: RAILING        |  |

DESIGN AGENCY  
**KZFJ-SIGN**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 SCR  
 REVIEWER  
 SCR 3/29/2024  
 PROJECT ID  
 117016  
 SHEET TOTAL  
 P.09 210



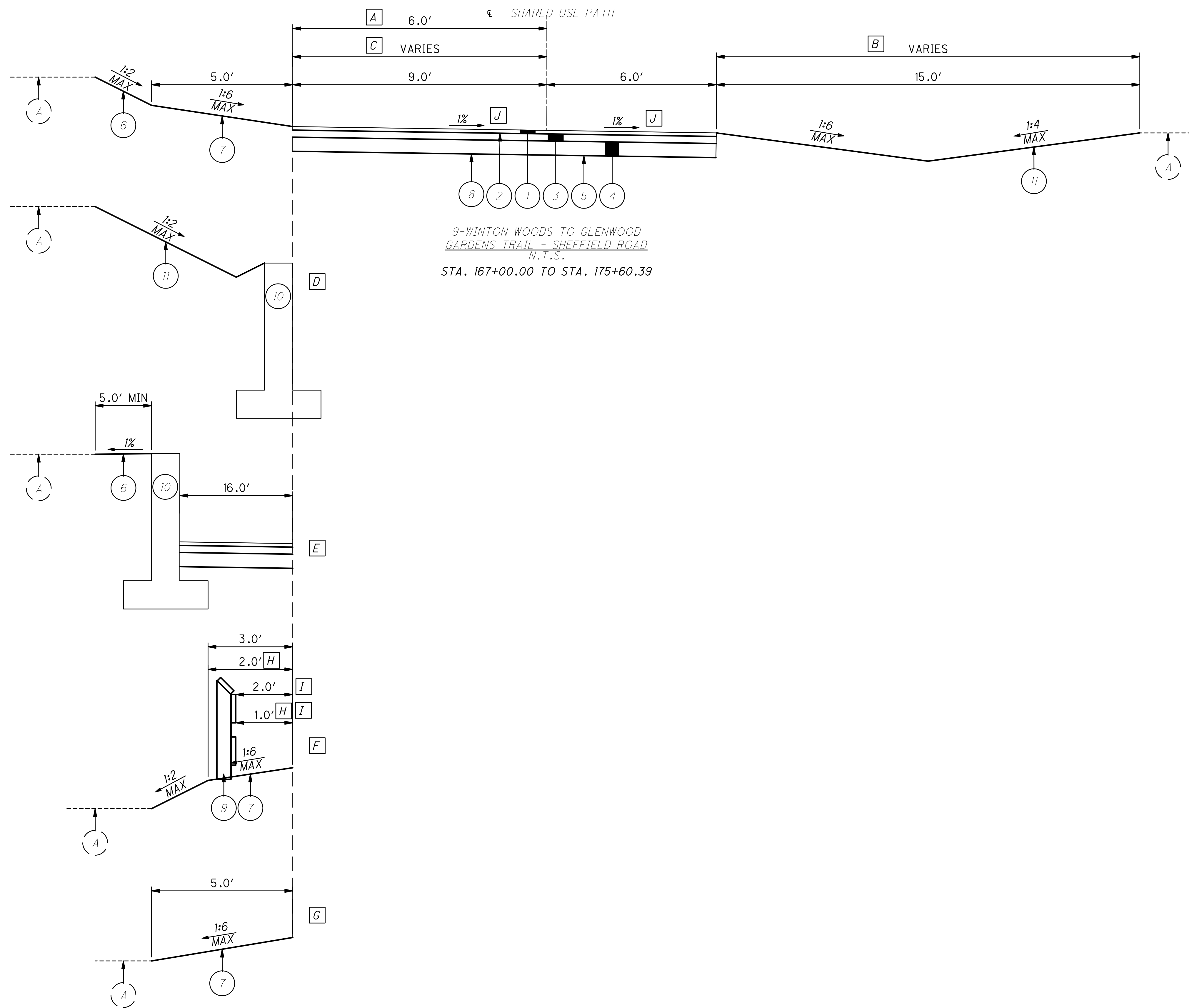


- A** STA. 146+54.64 TO STA. 147+30.34  
STA. 164+86.16 TO STA. 167+00.00
- B** STA. 133+06.14 TO STA. 133+62.30
- C** STA. 140+75.00 TO STA. 141+83.51  
STA. 149+82.00 TO STA. 151+00.00  
STA. 153+65.00 TO STA. 154+87.27  
STA. 176+59.89 TO STA. 179+64.15  
STA. 184+04.09 TO STA. 184+37.59  
STA. 185+28.47 TO STA. 189+41.96  
STA. 231+30.64 TO STA. 232+50.00
- D** STA. 106+52.02 TO STA. 106+90.02
- E** STA. 100+40.03 TO STA. 101+63.46
- F** STA. 147+06.01 TO STA. 147+30.34  
STA. 231+30.64 TO STA. 232+50.00
- G** STA. 106+52.02 TO STA. 106+90.02  
STA. 145+74.60 TO STA. 147+06.01  
STA. 153+65.00 TO STA. 154+87.27
- H** VARIES FOR RAILING FLARED END  
STA. 106+35.44 TO STA. 106+62.02  
STA. 106+83.61 TO STA. 107+01.23  
STA. 232+28.29 TO STA. 232+50.00
- I** STA. 100+40.03 TO STA. 101+63.46
- J** TRANSITIONS FROM 1% TO 0%  
STA. 101+58.46 TO STA. 101+63.46  
STA. 106+85.02 TO STA. 106+90.02  
STA. 166+95.00 TO STA. 167+00.00  
STA. 190+07.38 TO STA. 190+12.38  
STA. 212+57.97 TO STA. 212+62.97
- K** TRANSITIONS FROM 0% TO 1%  
STA. 120+00.97 TO STA. 120+05.97  
STA. 184+04.09 TO STA. 184+09.09  
STA. 209+67.97 TO STA. 209+72.97  
STA. 231+30.64 TO STA. 231+35.64
- L** TRANSITIONS FROM 1% TO -1%  
STA. 179+59.15 TO STA. 179+64.15

ITEM LEGEND

- |   |                                   |  |  |
|---|-----------------------------------|--|--|
| ① ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 | ④ ITEM 304 - 6" AGGREGATE BASE    | ⑦ ITEM 209 - LINEAR GRADING, AS PER PLAN | ⑩ ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 |
| ② ITEM 407 - TACK COAT (APPLIED @ 0.06 GAL/SQ YD)                           | ⑤ ITEM 204 - SUBGRADE COMPACTION  | ⑧ ITEM 204 - PROOF ROLLING               | Ⓐ EXISTING GRADE   |
| ③ ITEM 301 - 3" ASPHALT CONCRETE BASE, (449), PG64-22                       | ⑥ ITEM 659 - SEEDING AND MULCHING | ⑨ ITEM 607 - FENCE MISC.: RAILING        |  |





- [A] STA. 175+27.47 TO STA. 175+60.39
- [B] STA. 167+00.00 TO STA. 168+85.85  
STA. 174+06.77 TO STA. 175+60.39
- [C] STA. 167+00.00 TO STA. 168+35.81  
STA. 174+79.94 TO STA. 175+27.47
- [D] STA. 169+00.00 TO STA. 171+35.23
- [E] STA. 171+35.23 TO STA. 171+51.12
- [F] STA. 174+94.76 TO STA. 175+60.39
- [G] STA. 174+04.88 TO STA. 174+94.76
- [H] STA. 171+51.12 TO STA. 174+04.88
- [I] VARIES FOR RAILING FLARED END  
STA. 171+51.12 TO STA. 171+60.87  
STA. 174+04.88 TO STA. 174+24.57  
STA. 175+60.39 TO STA. 175+17.71
- [J] TRANSITIONS FROM 0% TO 1%  
STA. 167+00.00 TO STA. 167+05.00

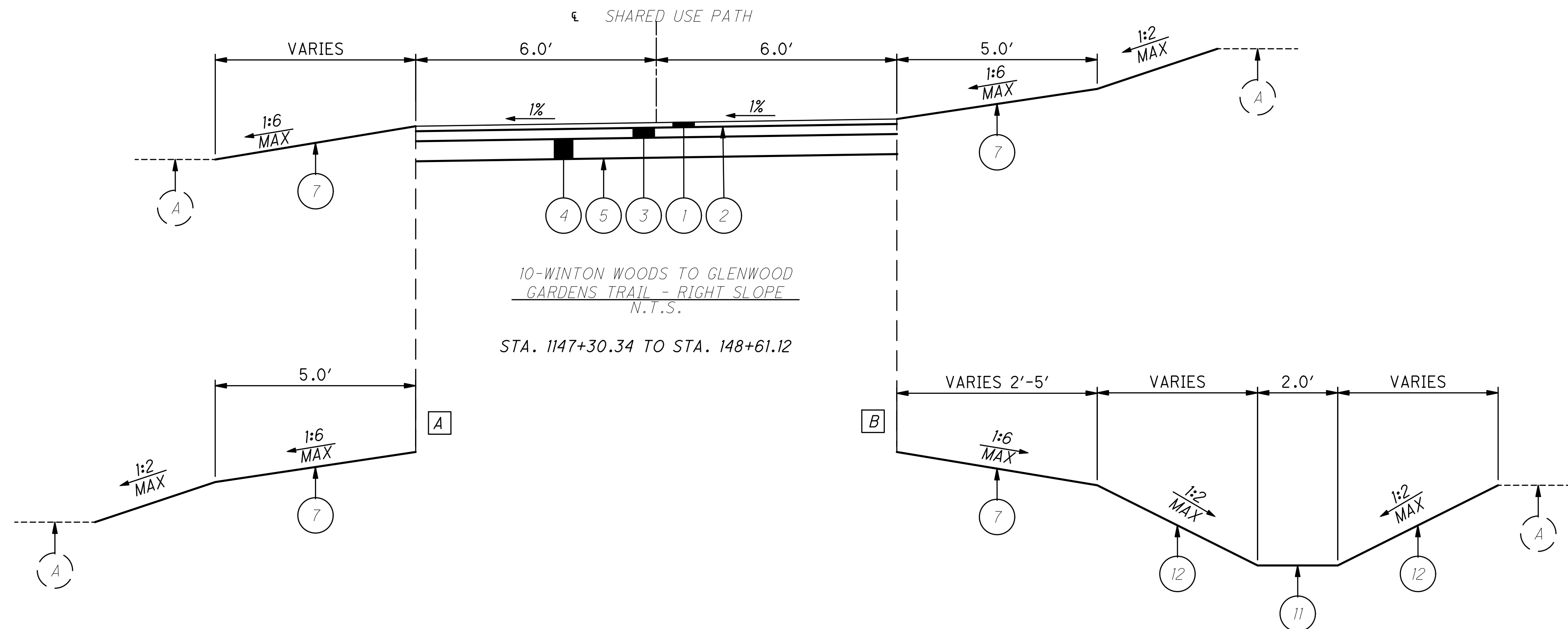
ITEM LEGEND

- |   |   |   |  |
|---|---|---|--|
| <ul style="list-style-type: none"> <li>① ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22</li> <li>② ITEM 407 - TACK COAT (APPLIED @ 0.06 GAL/SQ YD)</li> <li>③ ITEM 301 - 3" ASPHALT CONCRETE BASE, (449), PG64-22</li> </ul> | <ul style="list-style-type: none"> <li>④ ITEM 304 - 6" AGGREGATE BASE</li> <li>⑤ ITEM 204 - SUBGRADE COMPACTION</li> <li>⑥ ITEM 659 - SEEDING AND MULCHING</li> </ul> | <ul style="list-style-type: none"> <li>⑦ ITEM 209 - LINEAR GRADING, AS PER PLAN</li> <li>⑧ ITEM 204 - PROOF ROLLING</li> <li>⑨ ITEM 607 - FENCE MISC.: RAILING</li> </ul> | <ul style="list-style-type: none"> <li>⑩ ITEM 870 - PREFABRICATED MODULAR RETAINING WALL, AS PER PLAN</li> <li>⑪ ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3</li> <li>Ⓐ EXISTING GRADE</li> </ul> |
|---|---|---|--|

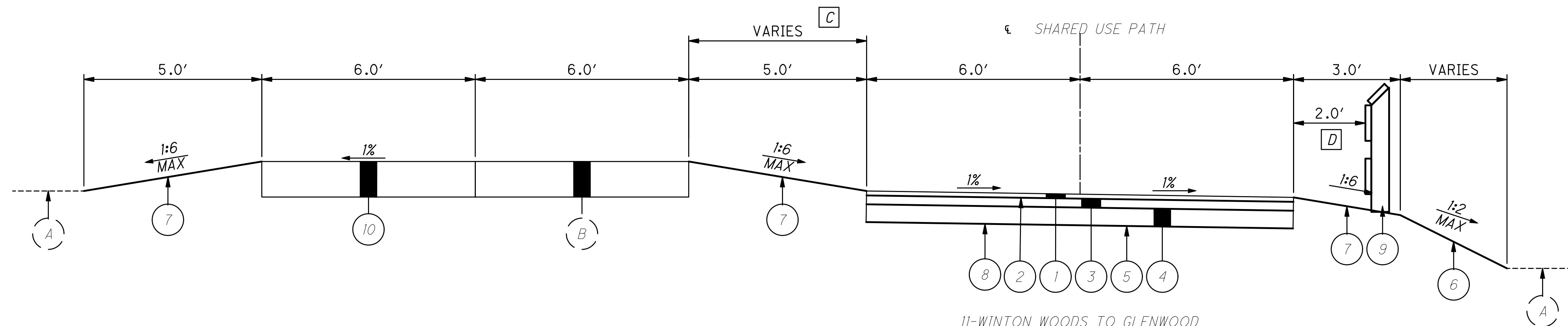


A 148+10.43 TO STA. 148+61.12

B STA. 147+80.35 TO STA.. 148+61.12



10-WINTON WOODS TO GLENWOOD  
GARDENS TRAIL - RIGHT SLOPE  
N.T.S.  
STA. 1147+30.34 TO STA. 148+61.12



C STA. 196+28.20 TO STA. 196+65.34

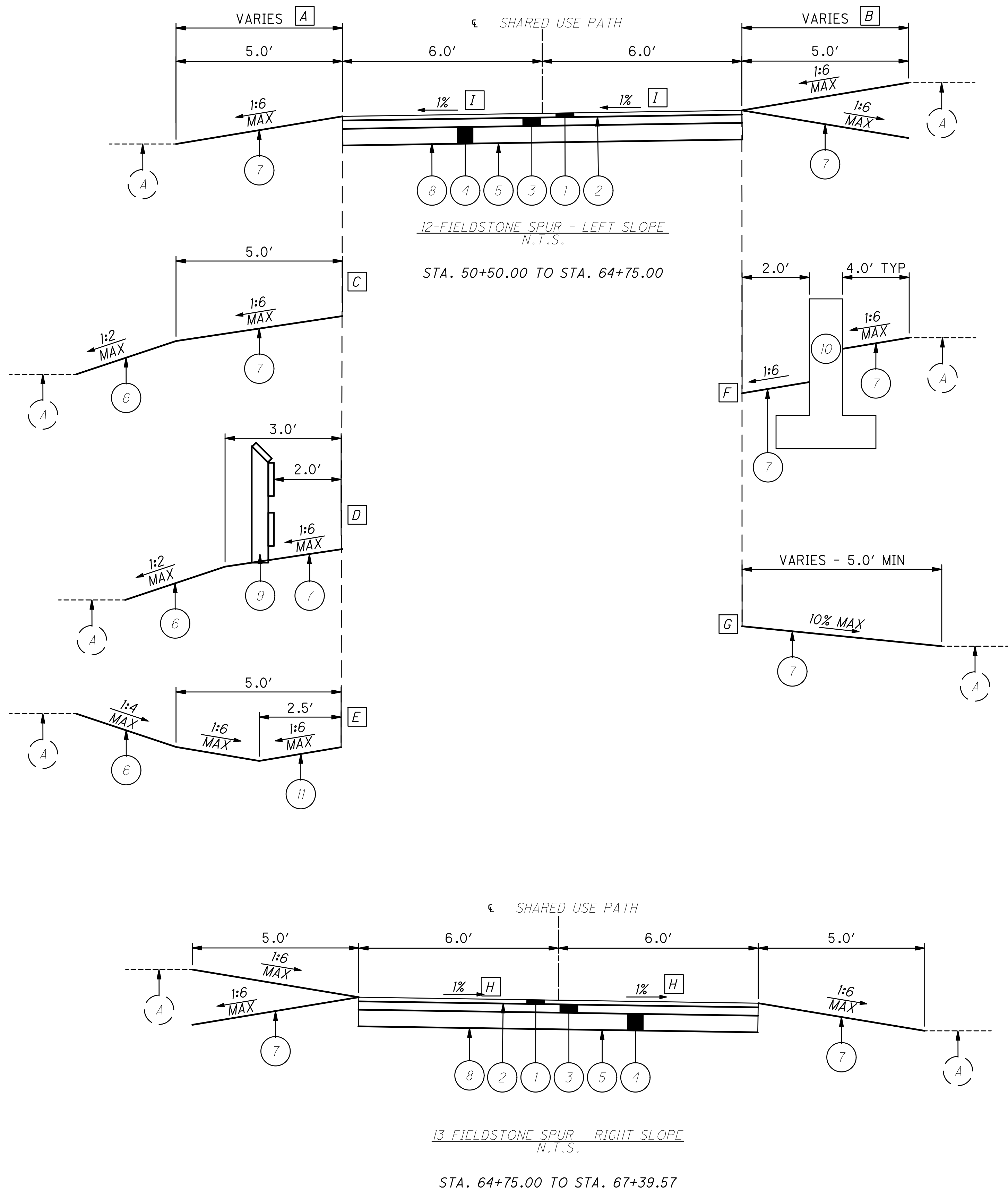
D VARIES FOR RAILING FLARED END  
STA. 195+27.76 TO STA. 195+45.33  
STA. 196+47.24 TO STA. 196+65.34

11-WINTON WOODS TO GLENWOOD  
GARDENS TRAIL - RIGHT SLOPE  
N.T.S.  
STA. 195+17.65 TO STA. 196+65.34

ITEM LEGEND

1 ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	4 ITEM 304 - 6" AGGREGATE BASE	7 ITEM 209 - LINEAR GRADING, AS PER PLAN	10 ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN	A EXISTING GRADE
2 ITEM 407 - TACK COAT (APPLIED @ 0.06 GAL/SQ YD)	5 ITEM 204 - SUBGRADE COMPACTION	8 ITEM 204 - PROOF ROLLING	11 ITEM 601 - RIPRAP	B EXISTING GRAVEL SERVICE DRIVE
3 ITEM 301 - 3" ASPHALT CONCRETE BASE, (449), PG64-22	6 ITEM 659 - SEEDING AND MULCHING	9 ITEM 607 - FENCE MISC.: RAILING	12 ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	





- A** STA. 51+12.25 TO STA. 52+75.11  
STA. 60+29.23 TO STA. 61+25.00
- C** STA. 59+56.34 TO STA. 60+43.67
- D** STA. 57+95.88 TO STA. 59+58.34
- E** STA. 60+43.67 TO STA. 64+60.12

- B** STA. 52+50.00 TO STA. 53+75.00  
STA. 60+75.32 TO STA. 61+62.75  
STA. 62+62.75 TO STA. 64+61.76
- F** STA. 61+62.75 TO STA. 62+62.75
- G** STA. 58+24.50 TO STA. 60+45.43
- I** TRANSITIONS FROM 1% TO 0%  
STA. 64+70.00 TO STA. 64+75.00

- H** TRANSITIONS FROM 0% TO 1%  
STA. 64+75.00 TO STA. 64+80.00

ITEM LEGEND

- |   |                                   |  |   |
|---|-----------------------------------|--|---|
| 1 ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 | 4 ITEM 304 - 6" AGGREGATE BASE    | 7 ITEM 209 - LINEAR GRADING, AS PER PLAN | 10 SEAT WALL - REFER TO SHEET 185   |
| 2 ITEM 407 - TACK COAT (APPLIED @ 0.06 GAL/SQ YD)                           | 5 ITEM 204 - SUBGRADE COMPACTION  | 8 ITEM 204 - PROOF ROLLING               | 11 ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 |
| 3 ITEM 301 - 3" ASPHALT CONCRETE BASE, (449), PG64-22                       | 6 ITEM 659 - SEEDING AND MULCHING | 9 ITEM 607 - FENCE MISC.: RAILING        | A EXISTING GRADE  |

TYPICAL SECTIONS - FIELDSTONE SPUR

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 SCR

REVIEWER  
 SCR 3/29/2024

PROJECT ID  
 117016

SHEET TOTAL  
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UTILITY OWNERSHIP

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

DUKE ENERGY - ELECTRIC (DISTRIBUTION)  
2010 DANA AVE  
CINCINNATI, OH 45207  
513-514-8209 (CHRIS TEPE)  
CHRIS.TEPE@DUKE-ENERGY.COM

DUKE ENERGY GAS  
139 EAST 4<sup>TH</sup> ST., ROOM 460A  
CINCINNATI, OH 45202  
OH/KYHOUSEBILL@DUKE-ENERGY.COM

ALTAFIBER  
221 E. 4<sup>TH</sup> ST, BLDG. 121-900  
CINCINNATI, OH 45201  
ROADPROJECTS@ALTAFIBER.COM

CINCINNATI METROPOLITAN SEWER DISTRICT  
1600 GEST STREET  
CINCINNATI, OH 45204  
DESIGN: 513-557-7188 (ROB FRANKLIN)  
MSDUTILITYREVIEW@CINCINNATI-OH.GOV

GREATER CINCINNATI WATER WORKS  
4747 SPRING GROVE AVENUE  
CINCINNATI, OH 45232  
513-352-3723 (DAN LOUIS)  
DANIEL.LOUIS@GCWW.CINCINNATI-OH.GOV

CINCINNATI STORMWATER MANAGEMENT UTILITY  
4747 SPRING GROVE AVENUE  
CINCINNATI, OH 45232  
513-591-7783 (NICK CHRISTOPFEL)  
NICK.CHRISTOPFEL@CINCINNATI-OH.GOV  
SMUPLANREVIEW@CINCINNATI-OH.GOV

CITY OF SPRINGDALE  
11700 SPRINGFIELD PIKE  
CINCINNATI, OH 45246  
513-346-5700 (DERRICK PARHAM)  
DPARHAM@SPRINGDALE.ORG

CITY OF FOREST PARK  
1201 W KEMPER RD  
FOREST PARK, OH 45240  
513-595-5200 (RAY HODGES)  
JOANNEL@FORESTPARK.ORG

SPRINGFIELD TOWNSHIP  
952 COMPTON ROAD  
CINCINNATI, OH 45231  
513-522-4004 (SCOTT SCHARDINE)  
SSCHARDINE@SPRINGFIELDTWP.ORG

EXISTING FACILITIES

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THEIR WORK IN SUCH MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FACILITY. IF ANY DAMAGE TO ANY EXISTING FACILITY OCCURS DUE TO THE CONTRACTOR'S OPERATIONS, THEY SHALL REPLACE THE DAMAGED FACILITY AT THEIR EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.

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.

PROJECT PHASING

PROJECT PHASING TO BE COORDINATED WITH GREAT PARKS, AND THE EMERGENCY CULVERT REPAIR PROJECT ALONG LAKEVIEW DRIVE. PHASING LAID OUT IN THESE PLANS IS FOR CLARIFICATION PURPOSES ONLY AND MAY BE ADJUSTED WITH THE APPROVAL OF GREAT PARKS AND THE ENGINEER.

CONSTRUCTION NOTIFICATION

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTICE TO OFFICE OF CONWUNICATIONS TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO OFFICE OF CONWUNICATION
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES AND RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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

SURVEYING

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 02 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88  
GEOID: 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (86)  
ELLIPSOID: GRS80  
MAP PROTECTION: LAMBERT  
COORDINATION SYSTEM: STATE OF PLANE OH SOUTH  
1.000094421104

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 SUPPLEMENTAL SPECIFICATION 823.

CLEARING AND GRUBBING, AS PER PLAN

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

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	153	0	153
30"	19	1	20
48"	2	0	2
60"	0	0	0

SEEDING AND MULCHING

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

659, TOPSOIL	3568 CU. YD.
659, SEEDING AND MULCHING	32141 SQ. YD.
659, REPAIR SEEDING AND MULCHING	1607 SQ. YD.
659, COMMERCIAL FERTILIZER	4.34 TON
659, LIME	6.64 ACRE
659, WATER	173.6 M. GAL.

ITEM 209 - LINEAR GRADING, AS PER PLAN

PROVIDE GRADING ALONG FROM THE EDGE OF PATH TO 5' OUT EACH SIDE, IN PREPARATION FOR ITEM 653 TOPSOIL. ALL OTHER ITEMS WITH REGARDS TO ITEM 209: LINEAR GRADING SHALL APPLY.

UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS FOR THE PROJECT WITHIN THE PROPOSED CONSTRUCTION AREA

THE CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN THE LIMITS OF ANY GROUND DISTURBING ACTIVITIES. THIS REQUIREMENT INCLUDES, BUT SHALL NOT BE LIMITED TO, SHARED USE PATH AREAS, AND CURB RAMP AREAS. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITY PROTECTION SERVICE TO LOCATE UTILITIES IN THE PROJECT. THE CONTRACTOR SHALL DIRECTLY CONTACT ALL OTHER UTILITIES THAT ARE NOT MEMBERS OF OHIO UNDERGROUND PROTECTION SERVICE.

ALL UTILITIES LOCATED WITHIN THE DISTURB LIMITS SHALL BE PROTECTED FROM ANY DAMAGE FROM ALL CONSTRUCTION ACTIVITIES. ALL UTILITIES TO BE ADJUSTED TO GRADE SHALL HAVE ALL MATERIALS AND WORKMANSHIP PERFORMED TO THE REQUIREMENTS OF THE UTILITY OWNER.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 9:00 PM AND 6:00 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BROWN BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. 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.

UNRECORDED STORM WATER DRAINAGE

FURNISH A CONTINUANCE FOR ALL UNRECORDED STORM WATER DRAINAGE, SUCH AS ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK. FURNISH EITHER AN OPEN CONTINUANCE OR AN UNOBSTRUCTED CONTINUANCE BY CONNECT-STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEEDED CONDUIT TO REPLACE OR EXTEND AN EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 6" CONDUIT, TYPE B, FOR DRAINAGE CONNECTION 100 FT

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 90 M. GAL.

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

SCR

REVIEWER

SCR 3/29/2024

PROJECT ID

117016

SHEET TOTAL

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"PCB" REFERS TO "PORTABLE CONCRETE BARRIER"  
"OMUTCD" REFERS TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.  
"SCD" REFERS TO "STANDARD CONSTRUCTION DRAWING"  
"CMS" REFERS TO "CONSTRUCTION AND MATERIAL SPECIFICATION" ODOT, CURRENT EDITION.  
"MOT" REFERS TO "MAINTENANCE OF TRAFFIC"



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.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

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

ITEM 607 - FENCE MISC: CHAINLINK FENCE

THIS ITEM SHALL INCLUDE THE IN KIND REPLACEMENT OF FENCE REMOVED AS PART OF CONSTRUCTION. FENCE SHALL TYPE AND STYLE SHALL BE AS CLOSE TO THE EXISTING FENCE AS POSSIBLE. ALTERNATE FENCING MAY BE PROVIDED WITH THE APPROVAL OF ALL AFFECTED PROPERTY OWNERS. NEW FENCE SHALL BE PLACED ALONG THE PROPERTY LINES AS INDICATED IN THE PLANS.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 607 - FENCE MISC: CHAINLINK FENCE

ITEM 202 - GATE REMOVED, AS PER PLAN

ALL ABOVE GROUND PORTIONS OF THE GATE INCLUDING THE GATE, POSTS, AND RECEIVING POSTS SHALL BE REMOVED IN THEIR ENTIRETY. LOCKS SHALL NOT BE DAMAGED AND SHALL BE RETURNED TO THE OWNER. POST FOUNDATIONS SHALL BE REMOVED TO THE EXTENT REQUIRED TO COMPLETE THE WORK.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - GATE REMOVED, AS PER PLAN.

ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN

THIS WORK SHALL CONSIST OF THE RECONSTRUCTION OF A GRAVEL SERVICE DRIVE. THE DEPTH OF THIS DRIVE SHALL BE 12" OR MATCH THE EXISTING AGGREGATE PAVEMENT THICKNESS, WHICHEVER IS GREATER.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN.

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

THIS WORK SHALL CONSIST OF FULL DEPTH ASPHALT PAVEMENT REPLACEMENT. PROVIDE FULL DEPTH SAWCUT AND PAVEMENT REMOVAL TO THE LIMITS SHOWN IN THE PLANS. THE PROPOSED ASPHALT PAVEMENT SECTION SHALL MATCH THE EXISTING ROADWAY SECTION. COORDINATE INSTALLATION OF RUMBLE STRIPS AS NEEDED PER SHEETS 186 AND 194.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 253 - PAVEMENT REPAIR, AS PER PLAN.

ITEM 202 - FENCE REMOVED, AS PER PLAN

ALL ABOVE GROUND PORTIONS OF THE FENCE INCLUDING FENCE AND POSTS SHALL BE REMOVED IN THEIR ENTIRETY. POST FOUNDATIONS SHALL BE REMOVED TO THE EXTENT REQUIRED TO COMPLETE THE WORK.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - FENCE REMOVED, AS PER PLAN.

ITEM 202 - REMOVAL MISC: MODULAR BLOCK LANDSCAPING WALL

THIS ITEM SHALL INCLUDE THE REMOVAL OF THE MODULAR BLOCK LANDSCAPING WALL AND ASSOCIATED LANDSCAPING IN ITS ENTIRETY. CONTRACTOR TO PROTECT NEARBY TREE AND FENCING.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: MODULAR BLOCK LANDSCAPING WALL

ITEM 202 - REMOVAL MISC: BAT BOX

THIS ITEM SHALL INCLUDE THE REMOVAL OF AN EXISTING BAT BOX. BAT BOX REMOVAL SHALL BE LIMITED TO THE DATES LISTED IN THE BAT HABITAT REMOVAL NOTE ON SHEER 14.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: BAT BOX

AIRWAY/HIGHWAY CLEARANCE FOR PUBLIC AIRPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF ZERO (0) PRIVATE USE AIRPORTS AND ONE (1) PRIVATE HELIPORT LISTED IN THE TABLE BELOW.

POTENTIALLY IMPACTED AIRPORTS	AIRPORT ELEVATION "A"	PROJECT ELEVATION "B" + 25 feet (Controlling Criteria)	DISTANCE BETWEEN AIRPORT & PROJECT "C"	NOTIFICATION SLOPE X:1	USE TYPE	AMOUNT OF CLEARANCE ABOVE NOTIFICATION SLOPE "Z"
VALLEY ASPHALT HELIPORT "A"	580 ft.	623' + 25' = 648 ft.	15307 ft.	25:01	PRIVATE	545'

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT, AT MAXIMUM OPERATING HEIGHT, SHALL EXCEED THE HEIGHTS (Z) PROVIDED IN THE TABLE ABOVE. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, COORDINATION WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. FOR PRIVATE USE AIRPORTS, COORDINATION SHALL BE WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL COORDINATION IS MET AND DOCUMENTATION HAS BEEN FURNISHED TO THE PROJECT ENGINEER. IF COORDINATION IS NOT OBTAINED, THEN THE PROJECT ENGINEER WILL HAVE THE AUTHORITY TO PROVIDE RESTRICTIONS AS REQUIRED.

FAA CONTACT INFORMATION:  
EXPRESS PROCESSING CENTER  
THE FEDERAL AVIATION ADMINISTRATION  
SOUTHWEST REGIONAL OFFICE  
AIR TRAFFIC AIRSPACE BRANCH ASW-520  
2601 MEACHAN BLVD.  
FORT WORTH, TX 76137-4298

ODOT OFFICE OF AVIATION CONTACT INFORMATION:  
OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF AVIATION  
2829 WEST DUBLIN-GRANVILLE ROAD  
COLUMBUS, OHIO 43235  
(614)-387-2346

"PCB" REFERS TO "PORTABLE CONCRETE BARRIER"  
"OMUTCD" REFERS TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.  
"SCD" REFERS TO "STANDARD CONSTRUCTION DRAWING"  
"CMS" REFERS TO "CONSTRUCTION AND MATERIAL SPECIFICATION" ODOT, CURRENT EDITION.  
"MOT" REFERS TO "MAINTENANCE OF TRAFFIC"

GENERAL NOTES

DESIGN AGENCY  
**KZF SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

PROJECT ID  
117016

SHEET TOTAL  
P.15 | 210



ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT. TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES WITH FLAGGING OPERATIONS AS DETAILED IN SCD MT-097.10 AND THESE PLANS.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN TRAFFIC SCD MT-101.60 AT THE LOCATIONS SHOWN IN THESE PLANS± DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN IN THESE PLANS

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

SHARED USE PATH AND SIDEWALK CLOSURES

THE CONTRACTOR SHALL ERECT AND MAINTAIN TYPE I BARRICADES WITH "SIDEWALK CLOSED" SIGNS FOR THE DURATION OF THIS PROJECT. ADVANCED WARNING SIGNS SHALL BE INSTALLED WHEN APPROACHING PEDESTRIAN OR CYCLIST TRAFFIC IS NOT REQUIRED TO STOP AT THE LOCATION OF THE CLOSURE OR AS DIRECTED BY THE ENGINEER.

SIGNS SHALL BE PLACED AT ALL ROADWAY CROSSINGS, DRIVEWAYS, OR OTHER ACCESS POINTS WHERE PEDESTRIAN OR CYCLIST TRAFFIC CAN ENTER THE WORK AREA. ADDITIONAL BARRIERS AND/OR ADVANCED WARNING SIGNS CAN BE PLACED AT THE DISCRETION OF THE ENGINEER WHEN THE WORK AREA CANNOT BE SEEN FROM A TRAIL ACCESS POINT.

FOR FURTHER INFORMATION, SEE SCD MT-110.10

ALL COMPLETED SHARED USE PATH SEGMENTS SHALL BE OPENED TO THE PUBLIC. A SEGMENT SHALL BE CONSIDERED COMPLETE WHEN ALL WORK BETWEEN TWO ACCESS POINTS HAS BEEN FINISHED. THE PATH CAN BE OPENED TO THE PUBLIC PRIOR TO THE INSTALLATION OF THE SURFACE COURSE OR LANDSCAPING WORK AT THE DISCRETION OF THE ENGINEER. SERVICE DRIVES ARE NOT CONSIDERED ACCESS POINTS TO THE TRAIL.

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

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 12 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UN-COMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

FLOODLIGHTING

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

"PCB" REFERS TO "PORTABLE CONCRETE BARRIER"  
 "OMUTCD" REFERS TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.  
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DESIGN AGENCY



700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER

SCR

REVIEWER

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P.16 210

**PHASE 1 - PARK GARAGE DRIVEWAY AND LAKEVIEW DRIVE SHARED USE PATH CONSTRUCTION**

MAINTAIN ONE 10' LANE IN THE SOUTHBOUND DIRECTION OF LAKEVIEW DRIVE USING THE EXISTING PAVEMENT, CONES, AND FLAGGERS AS SHOWN IN SCD MT 097.10 AND THE MOT PLANS.

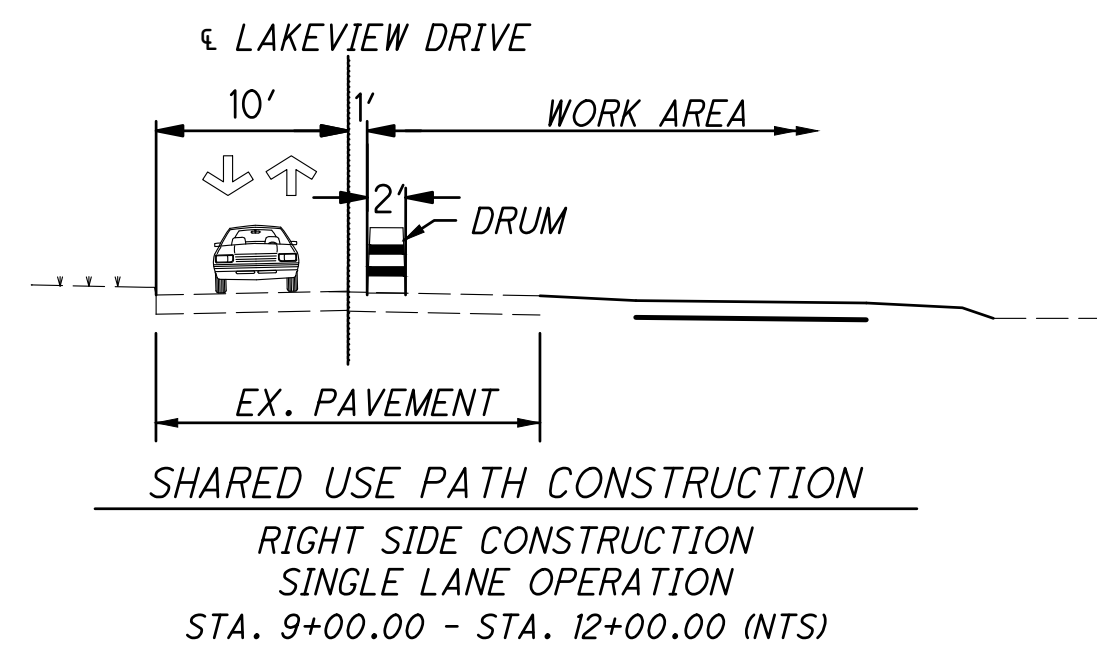
THE GATE TO THE WEST ENTRANCE OF THE PARK GARAGE SHALL REMAIN CLOSED AND LOCKED AT ALL TIMES UNTIL THE RECONSTRUCTION OF THE DRIVEWAY IS COMPLETE. A TYPE 3 BARRICADE WITH ROAD CLOSED SIGN SHALL BE PLACED ON THE OPPOSITE SIDE OF THE GATE AS SHOWN IN THESE PLANS.

FLAGGING OPERATION SIGNAGE TO BE COVERED OR REMOVED AND TWO WAY TRAFFIC RESTORED WHEN WORK IS NOT BEING PERFORMED. DRUMS SHALL BE MOVED THE RIGHT EDGE OF THE ROADWAY WHEN TWO WAY TRAFFIC IS IN OPERATION.

SAWCUT EXISTING PAVEMENT, CONSTRUCT PROPOSED TRAIL, WALLS AND RAILING. SEED AND MULCH EXPOSED SOIL.

WORK ZONE PAVEMENT MARKINGS AND MOT EQUIPMENT SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.

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



**PHASE 2 - LAKEVIEW DRIVE SHARED USE PATH CONSTRUCTION**

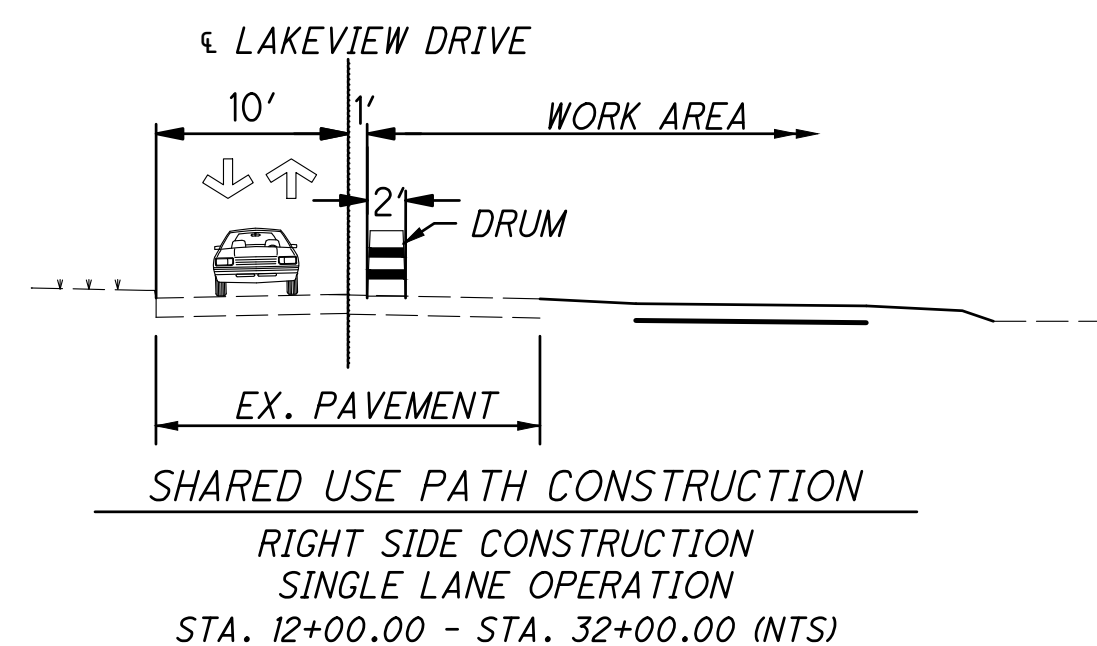
MAINTAIN ONE 10' LANE IN THE SOUTHBOUND DIRECTION OF LAKEVIEW DRIVE USING THE EXISTING PAVEMENT, CONES, AND FLAGGERS AS SHOWN IN SCD MT 097.10 AND THE MOT PLANS.

FLAGGING OPERATION SIGNAGE TO BE COVERED OR REMOVED AND TWO WAY TRAFFIC RESTORED WHEN WORK IS NOT BEING PERFORMED. DRUMS SHALL BE MOVED THE RIGHT EDGE OF THE ROADWAY WHEN TWO WAY TRAFFIC IS IN OPERATION.

SAWCUT EXISTING PAVEMENT, CONSTRUCT PROPOSED TRAIL, WALLS AND RAILING. SEED AND MULCH EXPOSED SOIL.

WORK ZONE PAVEMENT MARKINGS AND MOT EQUIPMENT SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.

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



**PHASE 3 - DELL PARKING AREA DRIVEWAYS AND LAKEVIEW DRIVE SHARED USE PATH CONSTRUCTION**

MAINTAIN ONE 10' LANE IN THE SOUTHBOUND DIRECTION OF LAKEVIEW DRIVE USING THE EXISTING PAVEMENT, CONES, AND FLAGGERS AS SHOWN IN SCD MT 097.10 AND THE MOT PLANS.

ACCESS TO THE FORMER LOCUST DELL PICNIC AREA SHALL BE RESTRICTED WHILE WORK IS BEING PERFORMED. A PORTION OF THE FORMER LOCUST DELL CAN BE USED FOR CONTRACTOR LAYDOWN. COORDINATE THIS AREA WITH GREAT PARKS AND THE EMERGENCY REPLACEMENT CULVERT PROJECT.

ONE OF THE TWO DRIVEWAYS TO THE SPRING BEAUTY DELL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. AN ADDITIONAL FLAGGER SHALL BE PLACED TO ENSURE THAT ACCESS TO THE DELL IS MAINTAINED. TYPE 3 BARRICADES SHALL BE USED AT THE CLOSED DRIVEWAY ENTRANCE.

ACCESS TO THE DELLS CAN BE CLOSED WITH TYPE 3 BARRICADES FOR THE DURATION OF THIS PHASE IN LIEU OF ADDITIONAL FLAGGERS WITH THE APPROVAL OF GREAT PARKS.

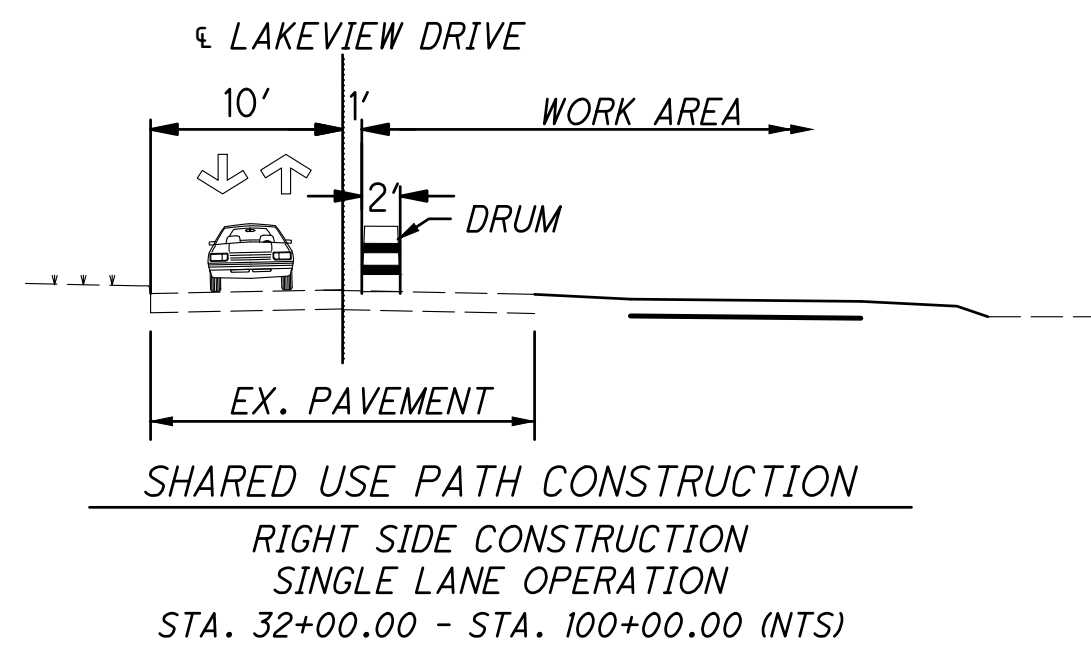
ACCESS TO THE METROPOLITAN SEWER DISTRICT (MSD) SERVICE DRIVE AT THE INTERSECTION OF LAKEVIEW DRIVE TRAIL AND GLENWOOD GARDENS TO WINTON WOODS TRAIL WILL BE RESTRICTED WHILE WORK IS BEING PERFORMED. A TYPE 3 BARRICADE WITH ROAD CLOSURE SIGN SHALL BE PROVIDED AT THE EXISTING SERVICE ROAD GATE LOCATION AS SHOWN IN THESE PLANS. GREAT PARKS AND ALL OTHER AFFECTED AGENCIES SHALL BE NOTIFIED 14 DAYS PRIOR TO THE CLOSURE OF THE DRIVE. ACCESS TO THE DRIVE SHALL BE GRANTED UPON THE REQUEST OF GREAT PARKS OR MSD. DETOURS WILL NOT BE PROVIDED.

FLAGGING OPERATION SIGNAGE TO BE COVERED OR REMOVED AND TWO WAY TRAFFIC RESTORED WHEN WORK IS NOT BEING PERFORMED.

SAWCUT EXISTING PAVEMENT, CONSTRUCT PROPOSED TRAIL, WALLS AND RAILING. SEED AND MULCH EXPOSED SOIL.

WORK ZONE PAVEMENT MARKINGS AND MOT EQUIPMENT SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.

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



**PHASE 4 - LAKEVIEW DRIVE TRAIL SURFACE COURSE, PAVEMENT MARKING, AND LANDSCAPING INSTALLATION**

A ROLLING LANE CLOSURE CAN BE USED DURING INSTALLATION OF THE SURFACE COURSE, LANDSCAPING, AND PAVEMENT MARKINGS FOR THE LAKEVIEW DRIVE TRAIL. MAINTAIN ONE 10' LANE IN THE SOUTHBOUND DIRECTION OF LAKEVIEW DRIVE USING THE EXISTING PAVEMENT, CONES, AND FLAGGERS AS SHOWN IN SCD MT 097.11. CONES SHALL BE PROVIDED AT 40' SPACING ALONG THE ENTIRE LENGTH OF THE CLOSURE.

THE SPACING BETWEEN THE ROLLING LANE CLOSURE AND ANY OTHER FLAGGING OPERATION SHALL BE A MINIMUM OF 2,000 FEET.

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

**PHASE 5 - METROPOLITAN SERVICE DISTRICT (MSD) SERVICE DRIVE CLOSURES**

AFTER THE CONSTRUCTION OF THE LAKEVIEW DRIVE TRAIL AND GLENWOOD GARDENS TO WINTON WOODS TRAIL INTERSECTION IS COMPLETE ACCESS THE MSD SERVICE DRIVE SHALL BE RESTORED.

THE MSD SERVICE DRIVE SHALL REMAIN OPEN AT ALL TIMES UNLESS WORK IS BEING PERFORMED WITHIN THE SERVICE DRIVE. TYPE 3 BARRIERS WITH ROAD CLOSED SIGNS SHALL BE PLACED AS SHOWN IN THESE PLANS WHEN ACCESS TO THE SERVICE DRIVE WILL BE RESTRICTED.

GREAT PARKS AND ALL OTHER AFFECTED AGENCIES SHALL BE NOTIFIED 14 DAYS PRIOR TO THE CLOSURE OF THE DRIVE. ACCESS TO SERVICE DRIVE SHALL BE GRANTED UPON THE REQUEST OF GREAT PARKS OR MSD. DETOURS WILL NOT BE PROVIDED.

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

**PHASE 6 - ARMY COR OF ENGINEERS SERVICE DRIVE CLOSURES**

THE ARMY COR OF ENGINEERS SERVICE DRIVE SHALL REMAIN OPEN AT ALL TIMES UNLESS WORK IS BEING PERFORMED BETWEEN SHEFFIELD ROAD AND STATION 181+00. TYPE 3 BARRIERS WITH ROAD CLOSED SIGNS SHALL BE PLACED AS SHOWN IN THESE PLANS.

GREAT PARKS, AND ALL OTHER AFFECTED AGENCIES SHALL BE NOTIFIED 14 DAYS PRIOR TO THE CLOSURE OF THE DRIVE. ACCESS TO SERVICE DRIVES SHALL BE GRANTED UPON THE REQUEST OF GREAT PARKS OR THE ARMY COR OF ENGINEERS. DETOURS WILL NOT BE PROVIDED.

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

**PHASE 7 - PARK SERVICE DRIVE CLOSURES**

CONSTRUCTION OF THE WINTON WOODS TO GLENWOOD GARDENS TRAIL WILL REQUIRE THE USE OR CLOSURE OF PARK SERVICE DRIVES AT VARIOUS POINTS ALONG THE PROJECT. ROAD WORK OR ROAD CLOSED AHEAD SIGNS SHALL BE PLACED AT THE NEAREST INTERSECTION PRIOR TO THE WORK ZONE. TYPE 3 BARRICADES OR DRUMS SHALL BE PLACED AS SHOWN IN THESE PLANS.

GREAT PARKS AND ALL OTHER AFFECTED AGENCIES SHALL BE NOTIFIED 14 DAYS PRIOR TO THE CLOSURE OF THE DRIVES. DETOURS WILL NOT BE PROVIDED.

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

**PHASE 8 - MCKELVEY ROAD CLOSURE**

MAINTAIN ONE 10' LANE USING THE EXISTING PAVEMENT, CONES, AND FLAGGERS AS DETAILED IN SCD MT-97.10.

MCKELVEY ROAD LANE CLOSURES SHALL BE LIMITED TO WHEN REQUIRED TO COMPLETE WORK.

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

**PHASE 9 - SHEFFIELD ROAD CROSSING CLOSURE**

MAINTAIN ONE 10' LANE USING THE EXISTING PAVEMENT, CONES, AND FLAGGERS AS DETAILED IN SCD MT-97.10. A MINIMUM SPEED LIMIT OF 45 MPH SHALL BE USED FOR ALL WORK PERFORMED ALONG SHEFFIELD ROAD BETWEEN TOULON ROAD AND STATE ROUTE 4.

SHEFFIELD ROAD LANE CLOSURES SHALL BE LIMITED TO WHEN REQUIRED TO COMPLETE WORK.

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

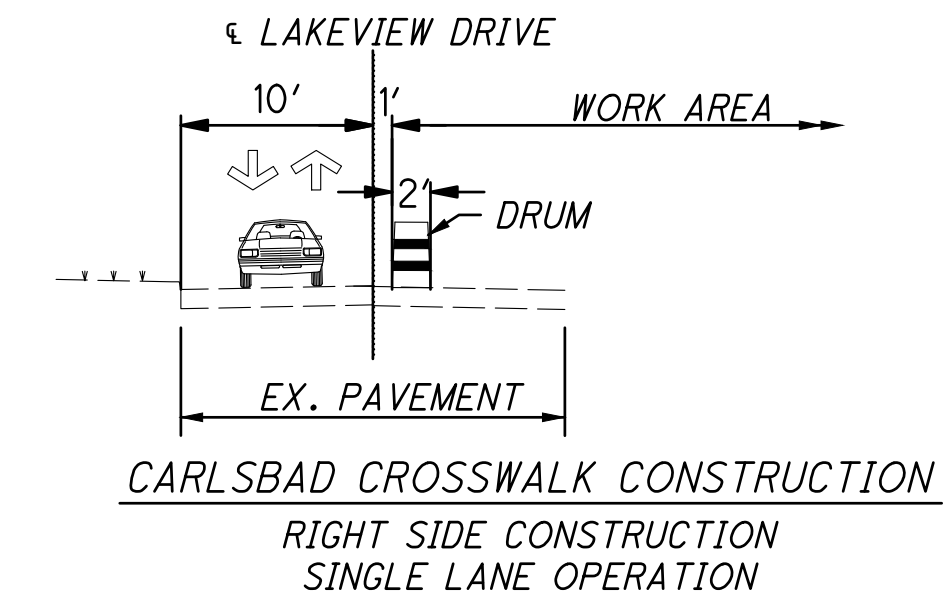
**PHASE 10 - CARLSBAD ROAD SIDEWALK AND LAKEVIEW DRIVE INTERSECTION**

CARLSBAD ROAD BETWEEN THE GREAT PARKS PROPERTY LINE AND LAKEVIEW DRIVE SHALL BE CLOSED DURING THE CONSTRUCTION OF THE CARLSBAD SIDEWALK AND CROSSWALK INSTALLATION. TYPE 3 BARRIERS WITH ROAD CLOSED SIGNS SHALL BE PROVIDED AT EITHER END OF THE ROAD CLOSURE. ROAD CLOSED AHEAD SIGNS SHALL BE PROVIDED AT THE INTERSECTION OF CARLSBAD ROAD AND CASCADE ROAD.

DURING INSTALLATION OF THE CROSSWALK THE NORTHBOUND LANE OF LAKEVIEW DRIVE MAY BE CLOSED. MAINTAIN ONE 10' LANE ALONG LAKEVIEW DRIVE USING THE EXISTING PAVEMENT, CONES, AND FLAGGERS AS DETAILED IN SCD MT-97.10. TWO WAY TRAFFIC ALONG LAKEVIEW DRIVE SHALL BE MAINTAINED AT ALL TIMES.

CARLSBAD ROAD SHALL ONLY BE CLOSE WHEN REQUIRED TO COMPLETE WORK.

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



**PHASE 11 - SHEFFIELD ROAD AND TOULON ROAD INTERSECTION IMPROVEMENTS**

THE INTERSECTION OF SHEFFIELD ROAD AND TOULON ROAD SHALL BE CONVERTED TO AN ALL WAY STOP CONDITION UPON THE START OF ANY WORK REQUIRING LANE CLOSURES BETWEEN STATIONS 150+00 AND 155+00.

MAINTAIN TRAFFIC FLOW IN ALL DIRECTIONS DURING CONSTRUCTION USING EXISTING PAVEMENT, CONES, AND FLAGGERS. WHEN CONSTRUCTION ACTIVITIES ARE NOT TAKING PLACE TEMPORARY SIGNING AND PAVEMENT MARKING SHALL BE USED AS REQUIRED TO DELINEATE NEW EDGE OF TRAVELED WAY AND STOP CONDITION. AT A MINIMUM LANE MARKINGS, STOP SIGNS, AND STOP AHEAD SIGNS SHALL BE PROVIDED.

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

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 "OMUTCD" REFERS TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.  
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 "CMS" REFERS TO "CONSTRUCTION AND MATERIAL SPECIFICATION" ODOT, CURRENT EDITION.  
 "MOT" REFERS TO "MAINTENANCE OF TRAFFIC"

DESIGN AGENCY

**KZFJ-SIGN**  
Designing Better Futures

700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

PROJECT ID  
117016

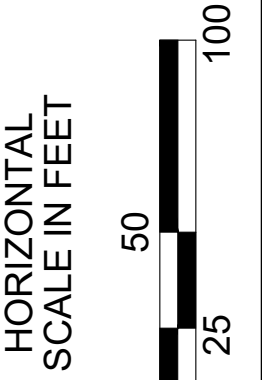
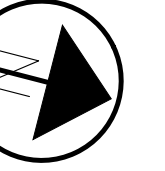
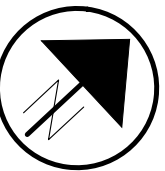
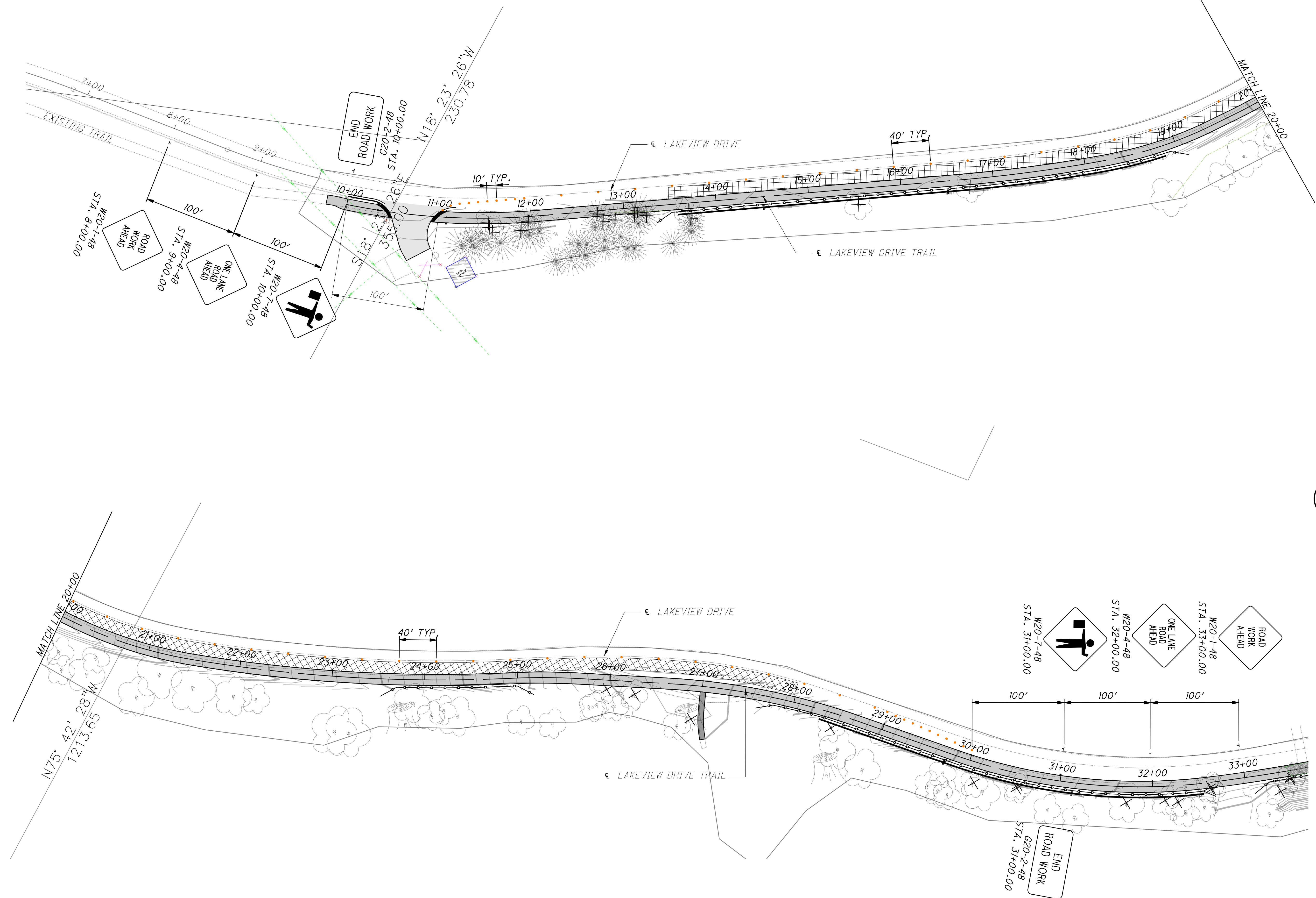
SHEET TOTAL  
P.17 210







NOTE: REFER TO SHEET 16 FOR SHARED USE PATH AND SIDEWALK CLOSURE DETAILS



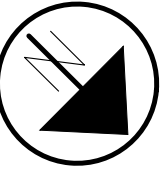
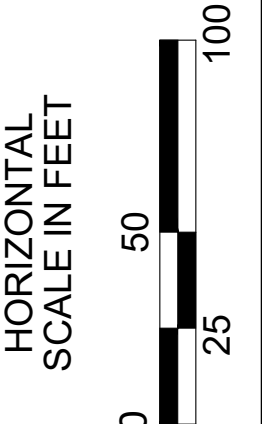
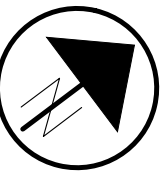
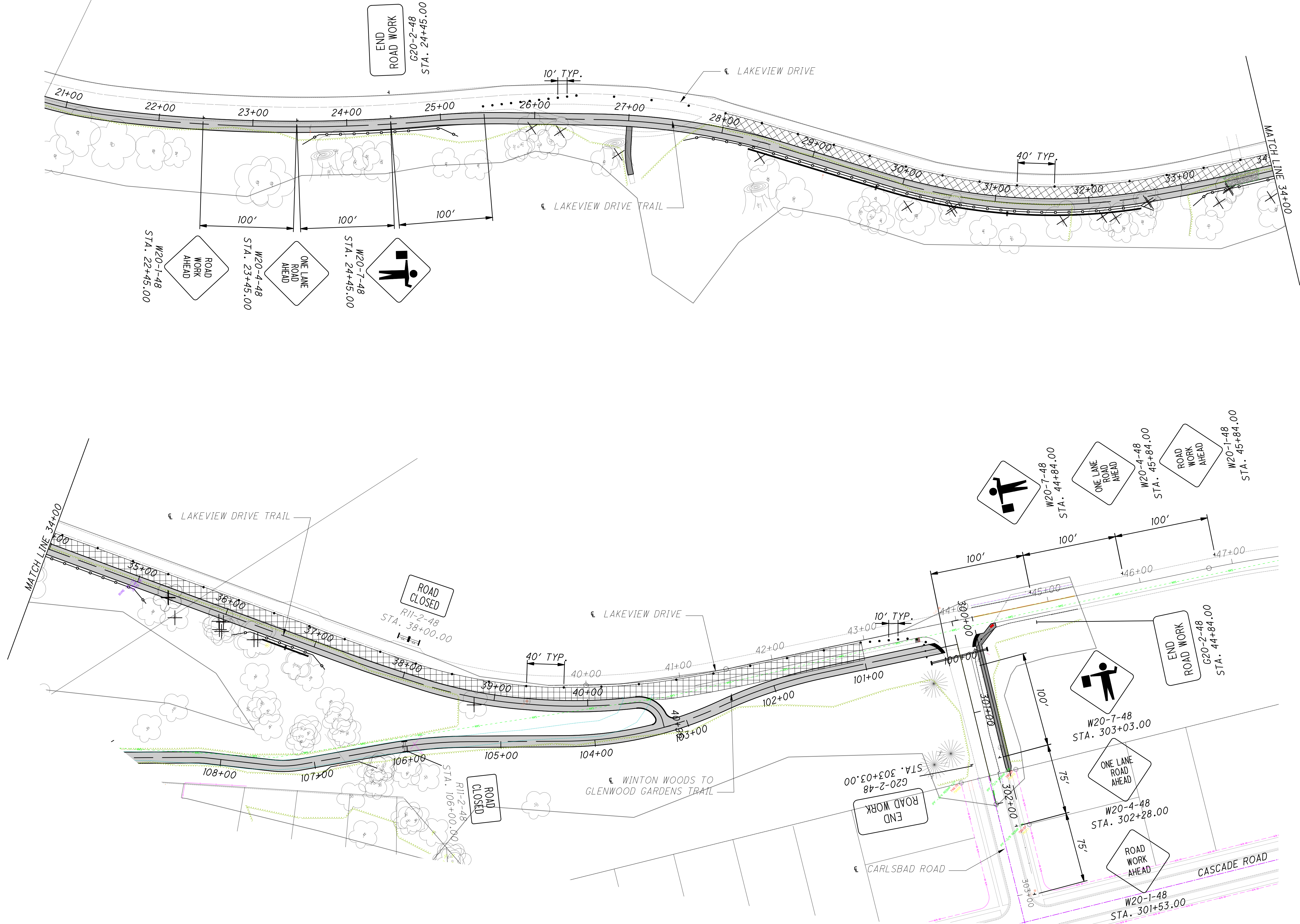
MAINTENANCE OF TRAFFIC PLAN PHASE 2  
LAKEVIEW DRIVE STA. 8+00.00 TO STA. 33+00.00

DESIGN AGENCY  
**KZFJ-SIGN**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	TOTAL
P.19	210



NOTE: REFER TO SHEET 16 FOR SHARED USE PATH AND SIDEWALK CLOSURE DETAILS

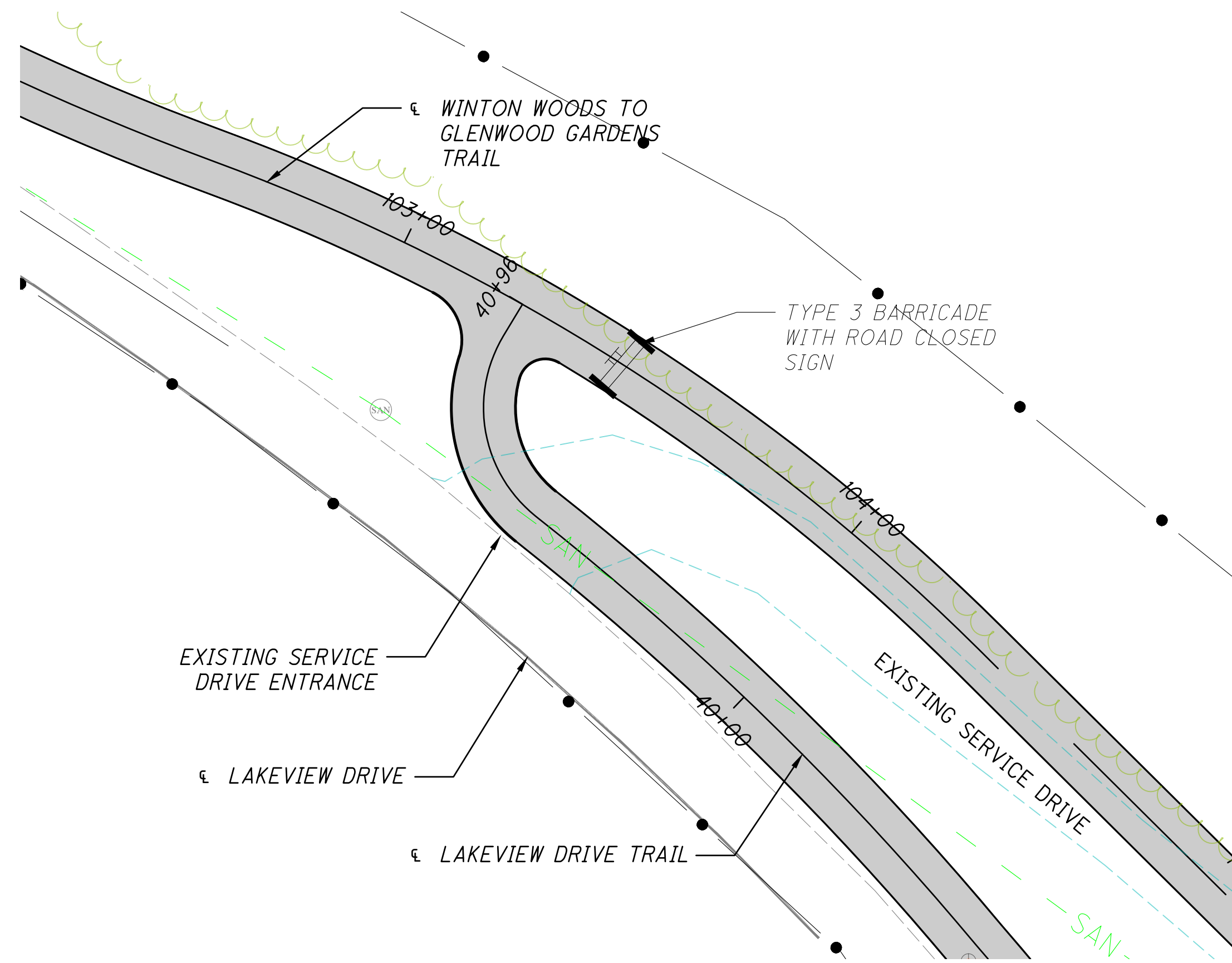


**MAINTENANCE OF TRAFFIC PLAN PHASE 3**  
**LAKEVIEW DRIVE STA. 22+45.00 TO STA. 46+84.00**

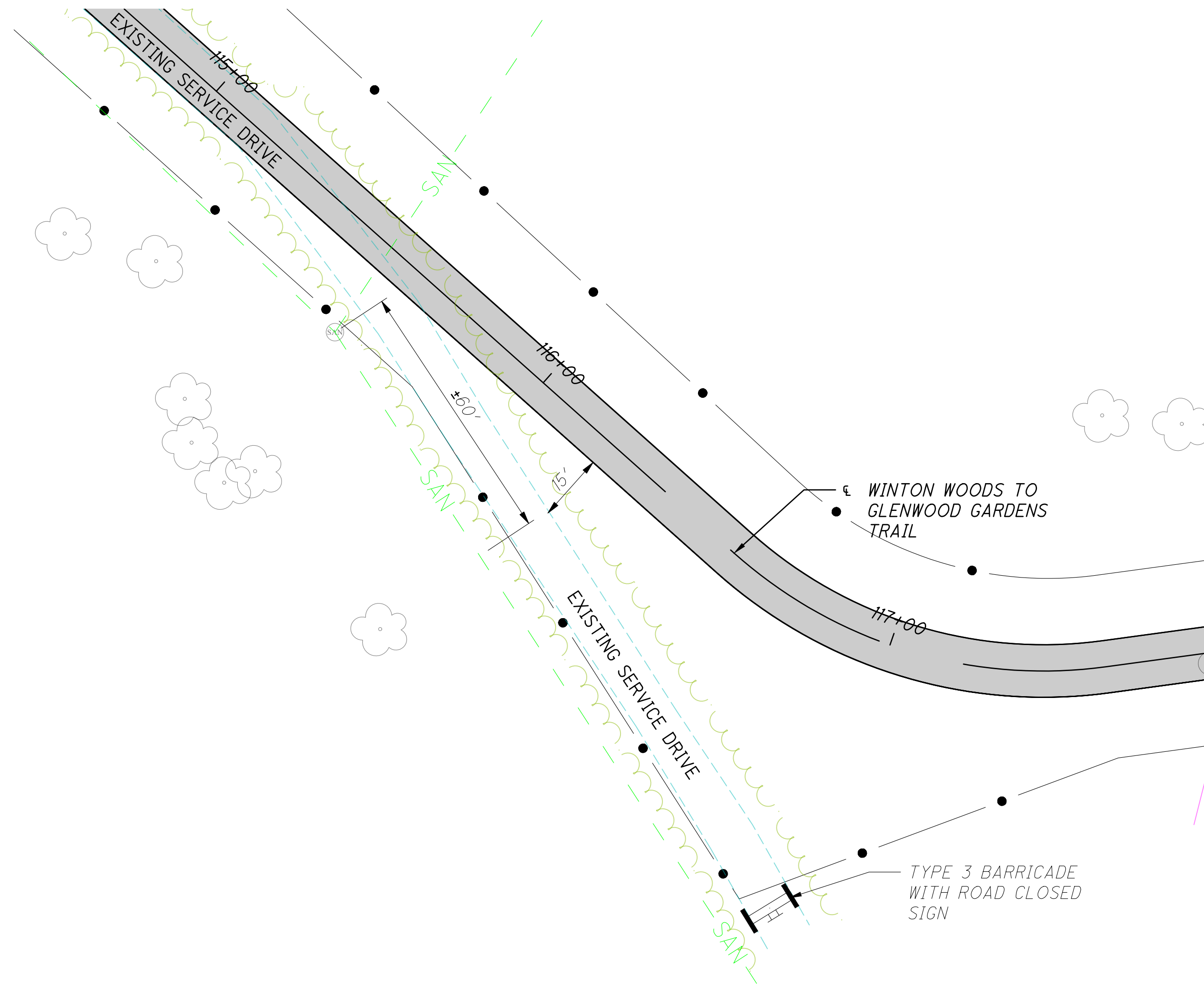
DESIGN AGENCY  
**KZFJ-S&S**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.20
TOTAL	210

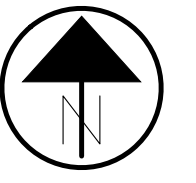




MSD SERVICE DRIVE INTERSECTION



MSD SERVICE DRIVE INTERSECTION



MAINTENANCE OF TRAFFIC PLAN PHASE 5  
CINCINNATI MSD SERVICE DRIVE

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

SCR

REVIEWER

SCR 3/29/2024

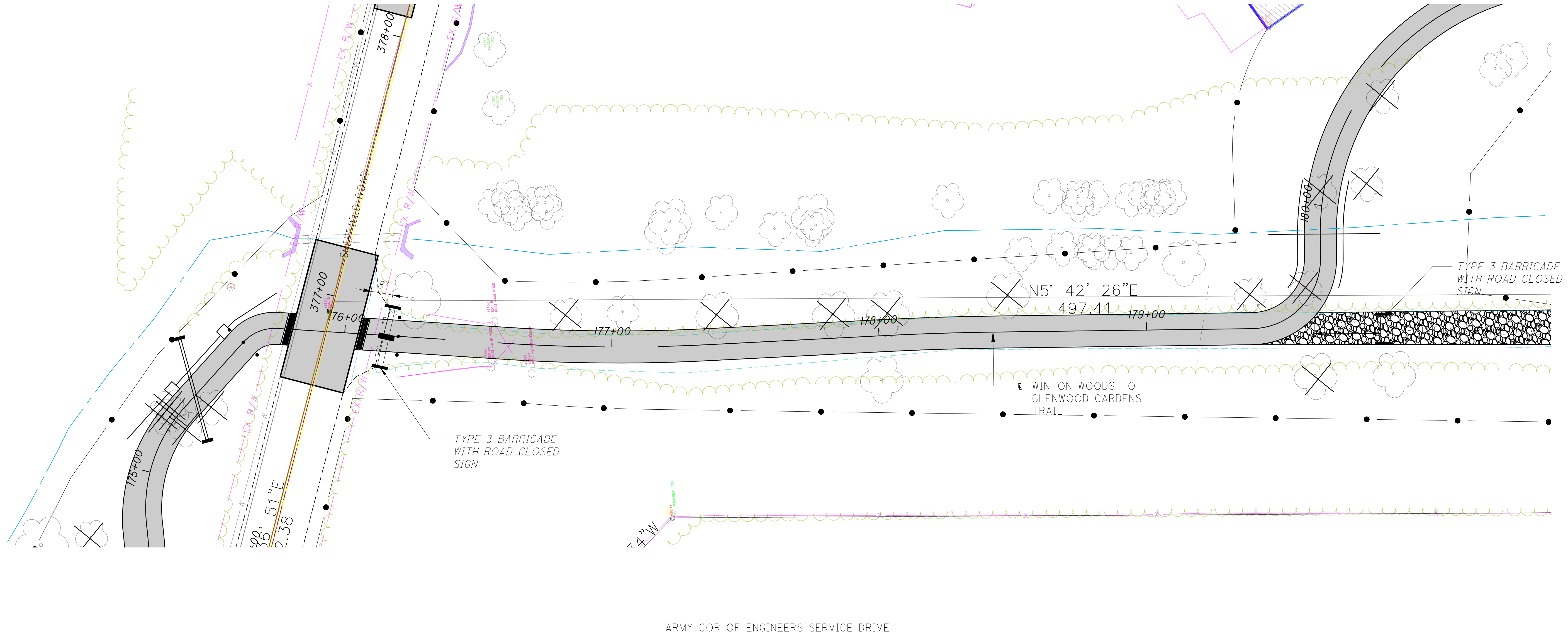
PROJECT ID

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MAINTENANCE OF TRAFFIC PLAN PHASE 6  
ARMY CORE OF ENGINEERS SERVICE DRIVE

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

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P.22	210















STATION RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	202	202	202	204	204	302	301	304	407	441	607	608	608	609	617		
									PAVEMENT REMOVED	WALK REMOVED	CURB REMOVED	SUBGRADE COMPACTION	PROOF ROLLING	LINEAR GRADING, AS PER PLAN	ASPHALT CONCRETE BASE, PG64-22	AGGREGATE BASE, 6" DEPTH	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22	FENCE, MISC.: WOOD RAILING	5" CONCRETE WALK	CURB RAMP	CURB, TYPE 2-A	COMPACTED AGGREGATE, AS PER PLAN		
					FT	FT	SY	SY	SY	SF	FT	SY	SY	SY	MI	CY	CY	GAL	CY	FT	SF	SF	FT	CY	
CL CONSTRUCTION LAKEVIEW DRIVE TRAIL																									
9+78.36	TO	10+26.95	1		48.59	12.00	64.79	62.48	59.80		10.00	62.48	0.01	0.01	6.26	10.41	3.75	3.75				48.59			
10+26.95	TO	11+18.43	3		91.48	12.00	121.97	277.05	277.05			277.05	0.01		23.09	46.18	16.62	16.62			72.00				
11+18.43	TO	33+00.00	1		2181.57	12.00	2908.76	2908.76	969.59			2908.76	0.17	0.41	242.40	484.79	174.53	174.53							
33+00.00	TO	34+50.00	2		150.00	12.00	200.00	200.00	66.67			200.00	0.02	0.03	16.67	33.33	12.00	12.00							
34+50.00	TO	40+51.61	1		601.61	12.00	802.15	802.15	267.38			802.15	0.05	0.11	66.85	133.69	48.13	48.13							
13+34.47	TO	19+08.65	1	RT	574.18														574.18						
23+53.36	TO	25+16.78	1	RT	163.42														163.42						
28+52.92	TO	32+66.27	1	RT	413.35														413.35						
33+09.91	TO	35+16.26	1/2	RT	206.35														206.35						
36+14.51	TO	37+20.72	1	RT	106.21														106.21						
CL CARLSBAD																									
300+32.00	TO	301+14.32	4	LT	82.32	6.00	54.88	54.88				54.88		0.02		9.15					493.92				
301+14.32	TO	301+64.35	5	LT	50.03	6.00	33.35	33.35	22.24			33.35		0.01		5.56					300.18				
CL CONSTRUCTION WINTON WOODS TO GLENWOOD GARDENS TRAIL																									
100+45.00	TO	103+00.00	6/7		255.00	12.00	340.00	340.00				340.00	0.02	0.05	28.33	56.67	20.40	20.40							
103+50.00	TO	115+69.05	6/7		1219.05	12.00	1625.40	1625.40	1625.40			1625.40	0.10	0.23	135.45	270.90	97.52	97.52							
115+69.05	TO	133+62.30	6/7		1793.25	12.00	2391.00	2391.00				2391.00	0.14	0.34	199.25	398.50	143.46	143.46							
134+64.83	TO	148+61.12	6/7/10		1396.29	12.00	1861.72	1861.72				1861.72	0.11	0.26	155.14	310.29	111.70	111.70							
149+82.00	TO	152+35.19	7		253.19	12.00	337.59	337.59		768.00		337.59	0.02	0.05	28.13	60.67	20.26	20.26			238.00				
154+00.00	TO	167+00.00	6		1300.00	12.00	1733.33	1733.33				1733.33	0.10	0.25	144.44	288.89	104.00	104.00							
167+00.00	TO	171+35.23	9		435.23	15.00	725.38	725.38				725.38	0.04	0.08	60.45	120.90	43.52	43.52							
171+35.23	TO	171+51.12	9		15.89	31.00	54.73	47.84				47.84	0.01	0.00	3.99	7.97	2.87	2.87							
171+51.12	TO	175+60.39	9		409.27	15.00	682.12	660.00				660.00	0.04	0.08	55.00	110.00	39.60	39.60							
176+25.00	TO	179+62.63	6/7		337.63	12.00	450.17	450.17	450.17			450.17	0.03	0.06	37.51	75.03	27.01	27.01							
179+62.63	TO	195+17.65	6/7/8		1555.02	12.00	2073.36	2073.36				2073.36	0.12	0.29	172.78	345.56	124.40	124.40							
195+17.65	TO	196+65.34	11		147.69	12.00	196.92	196.92				196.92	0.02	0.03	16.41	32.82	11.82	11.82				32.82			
196+65.34	TO	205+00.00	6/7		834.66	12.00	1112.88	1112.88				1112.88	0.07	0.16	92.74	185.48	66.77	66.77							
206+00.00	TO	224+54.50	6/7		1854.50	12.00	2472.67	2472.67	2472.67			2472.67	0.15	0.35	206.06	412.11	148.36	148.36							
224+54.50	TO	225+05.42	6/7		50.92	12.00	67.89	67.89				67.89	0.01	0.01	5.66	11.32	4.07	4.07							
225+05.42	TO	231+30.64	6/7		625.22	12.00	833.63	833.63				833.63	0.05	0.12	69.47	138.94	50.02	50.02							
233+50.00	TO	237+43.01	6/7		393.01	12.00	524.01	524.01				524.01	0.03	0.07	43.67	87.34	31.44	31.44							
237+43.01	TO	237+70.72	6/7		27.71	12.00	36.95	36.95	33.87			36.95	0.01	0.01	3.08	6.16	2.22	2.22							
213+23.44	TO	213+79.66	6	LT	56.22														56.22						
228+75.76	TO	229+88.65	6	LT	112.89														112.89						
228+83.87	TO	229+88.65	6	RT	104.78														104.78						
179+64.15	TO	180+13.94	8	LT/RT	49.79														49.79						
106+52.02	TO	106+90.02	7	LT	38.00														38.00						
171+51.12	TO	174+04.88	9	LT	253.76														253.76						
174+94.76	TO	175+60.39	9	LT	65.63														65.63						
CL CONSTRUCTION FIELDSTONE SPUR																									
50+50.00	TO	64+75.00	12		1425.00	12.00	1900.00	1900.00				1900.00	0.11	0.27	158.33	316.67	114.00	114.00							
64+75.00	TO	67+39.57	13		264.57	12.00	352.76	352.76				352.76	0.03	0.05	29.40	58.79	21.17	21.17							
59+56.34	TO	60+43.67	12	LT	87.33														87.33						
<b>SUBTOTALS</b>									6244.83	768.00	10.00	24082.18	1.47	3.35	2000.55	4018.10	1439.64	1439.64	2231.91	1032.10	72.00	48.59	32.82		
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>									6245	768	10	24083	2	4	2001	4019	1440	1440	2232	1033	72	49	33		

PAVEMENT CALCULATIONS

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

SCR

REVIEWER

SCR 3/29/2024

PROJECT ID

117016

SHEET TOTAL

P.27 210



STATION RANGE	TYPICAL SECTION	SIDE	DISTANCE (D) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) A=DxW/9 SY	CADD GENERATED AREA SY	202	202	202	204	204	209	253	301	304	407	441	607	608	608	609	617			
							PAVEMENT REMOVED SY	WALK REMOVED SF	CURB REMOVED FT	SUBGRADE COMPACTION SY	PROOF ROLLING HOUR	LINEAR GRADING, AS PER PLAN MILE	PAVEMENT REPAIR, AS PER PLAN SY	ASPHALT CONCRETE BASE, PG64-22 CY	AGGREGATE BASE, 6" DEPTH CY	TACK COAT GAL	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22 CY	FENCE, MISC.:WOOD RAILING FT	5" CONCRETE WALK SF	CURB RAMP SF	CURB, TYPE 2-A FT	COMPACTED AGGREGATE, AS PER PLAN CY			
INTERSECTION OF LAKEVIEW DRIVE AND WINTON WOODS TO GLENWOOD GARDENS TRAIL			94.31	12.00	125.75	120.05	30.00				120.05	0.01	0.02		20.01	7.20	5.00	5.00							
INTERSECTION OF LAKEVIEW DRIVE AND FIELDSTONE SPUR			125.00	12.00	166.67	165.47					165.47	0.01	0.02		27.58	9.93	6.89	6.89							
INTERSECTION OF CARLSBAD ROAD AND LAKEVIEW DRIVE				12.00		60.40	41.44				62.95		0.01		3.20	3.62	2.31	1.60		337.83	84.00				
MCKELVEY ROAD CROSSING			85.03	12.00	113.37	113.37					113.37	0.01	0.02		18.90	6.80	4.72	4.72			72.00				
INTERSECTION OF SHEFFIELD ROAD AND TOULON DRIVE			138.84	12.00	185.12	151.66	105.55	165.13	74.13	151.66	0.02	0.03		15.43	9.10	11.11	7.71		124.61	92.00	100.00				
SHEFFIELD ROAD CROSSING																									
370+40.87 TO 370+68.87		RT	28.00	15.00	46.67	46.67				46.67					46.67										
372+55.79 TO 372+83.79		RT	28.00	15.00	46.67	46.67				46.67					46.67										
374+87.28 TO 375+15.28		RT	28.00	15.00	46.67	46.67				46.67					46.67										
175+60.39 TO 176+25.00			64.61	12.00	86.15	192.22				192.22	0.01	0.01	142.07	4.18	8.36	2.09				72.00					
378+03.98 TO 378+31.98		LT	28.00	15.00	46.67	46.67				46.67					46.67										
379+83.76 TO 380+11.76		LT	28.00	15.00	46.67	46.67				46.67					46.67										
PARK SERVICE DRIVE CROSSING			100.00	12.00	133.33	219.29	209.83			219.29	0.01	0.02		15.70	31.41	11.31	7.85					30.86			
ARMY COR SERVICE DRIVE			105.00	12.00	140.00	148.88	148.88															148.88			
SUBTOTALS							535.70	165.13	74.13	1258.35	0.07	0.12	375.40	104.99	76.42	43.43	33.79		462.44	320.00	100.00	179.74			
TOTALS CARRIED TO GENERAL SUMMARY							536	166	75	1259	1	1	376	105	77	44	34		463	320	100	180			

PAVEMENT CALCULATIONS

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

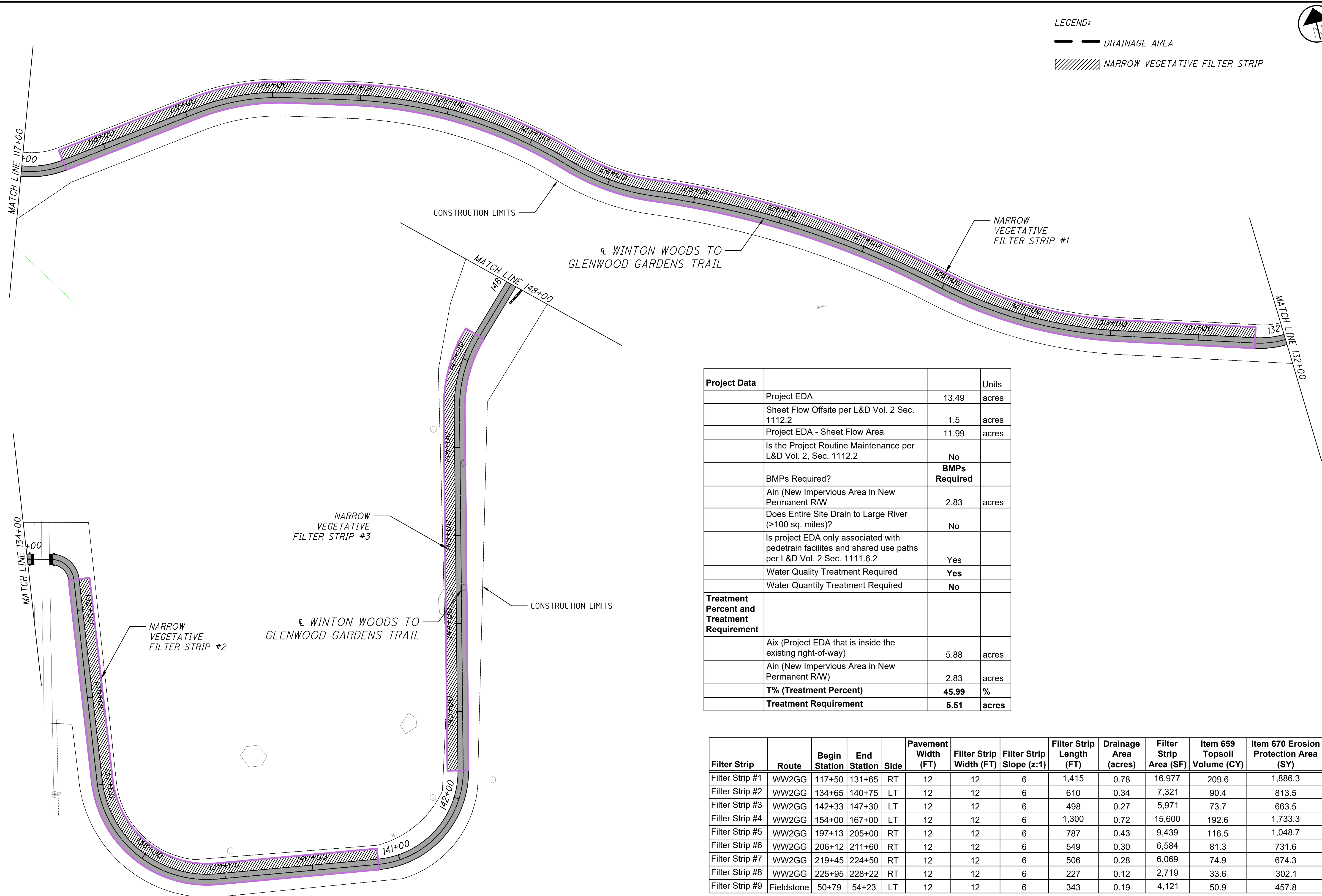
REVIEWER  
SCR 3/29/2024

PROJECT ID  
117016

SHEET TOTAL  
P.28 210



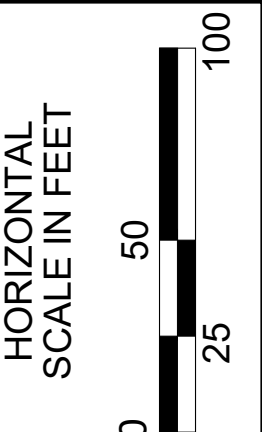
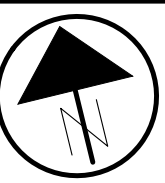




LEGEND:

— DRAINAGE AREA

▨ NARROW VEGETATIVE FILTER STRIP



Project Data			Units
Project EDA		13.49	acres
Sheet Flow Offsite per L&D Vol. 2 Sec. 1112.2		1.5	acres
Project EDA - Sheet Flow Area		11.99	acres
Is the Project Routine Maintenance per L&D Vol. 2, Sec. 1112.2	No		
BMPs Required?	<b>BMPs Required</b>		
Ain (New Impervious Area in New Permanent R/W)		2.83	acres
Does Entire Site Drain to Large River (>100 sq. miles)?	No		
Is project EDA only associated with pedetrain facilities and shared use paths per L&D Vol. 2 Sec. 1111.6.2	Yes		
Water Quality Treatment Required	<b>Yes</b>		
Water Quantity Treatment Required	<b>No</b>		
<b>Treatment Percent and Treatment Requirement</b>			
Aix (Project EDA that is inside the existing right-of-way)		5.88	acres
Ain (New Impervious Area in New Permanent R/W)		2.83	acres
<b>T% (Treatment Percent)</b>		<b>45.99</b>	<b>%</b>
<b>Treatment Requirement</b>		<b>5.51</b>	<b>acres</b>

Filter Strip	Route	Begin Station	End Station	Side	Pavement Width (FT)	Filter Strip Width (FT)	Filter Strip Slope (z:1)	Filter Strip Length (FT)	Drainage Area (acres)	Filter Strip Area (SF)	Item 659 Topsoil Volume (CY)	Item 670 Erosion Protection Area (SY)
Filter Strip #1	WW2GG	117+50	131+65	RT	12	12	6	1,415	0.78	16,977	209.6	1,886.3
Filter Strip #2	WW2GG	134+65	140+75	LT	12	12	6	610	0.34	7,321	90.4	813.5
Filter Strip #3	WW2GG	142+33	147+30	LT	12	12	6	498	0.27	5,971	73.7	663.5
Filter Strip #4	WW2GG	154+00	167+00	LT	12	12	6	1,300	0.72	15,600	192.6	1,733.3
Filter Strip #5	WW2GG	197+13	205+00	RT	12	12	6	787	0.43	9,439	116.5	1,048.7
Filter Strip #6	WW2GG	206+12	211+60	RT	12	12	6	549	0.30	6,584	81.3	731.6
Filter Strip #7	WW2GG	219+45	224+50	RT	12	12	6	506	0.28	6,069	74.9	674.3
Filter Strip #8	WW2GG	225+95	228+22	RT	12	12	6	227	0.12	2,719	33.6	302.1
Filter Strip #9	Fieldstone	50+79	54+23	LT	12	12	6	343	0.19	4,121	50.9	457.8

TOTAL TREATMENT CREDIT EARNED FROM NARROW VEGETATED FILTER STRIPS 3.43 ACRES

POST CONSTRUCTION BMP PLAN  
NARROW FILTER STRIP #1, #2, AND #3

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

SCR

REVIEWER

SCR 3/29/2024

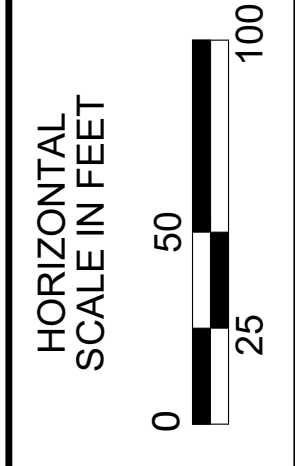
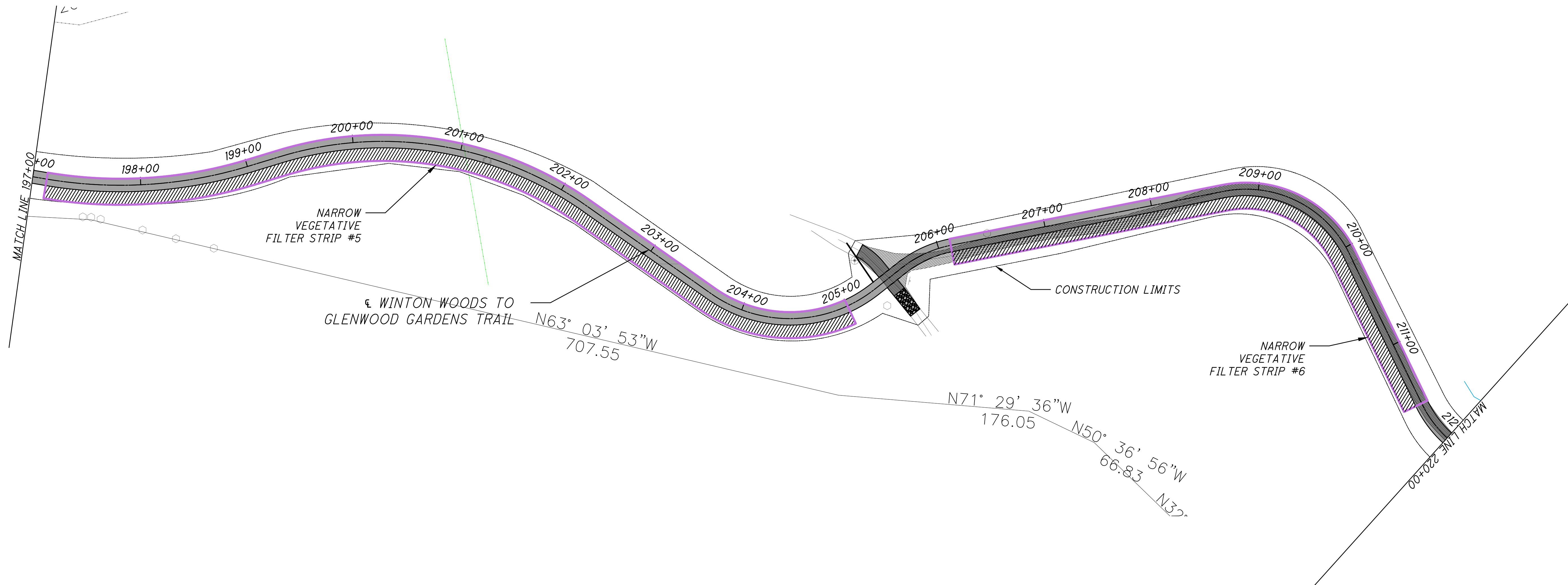
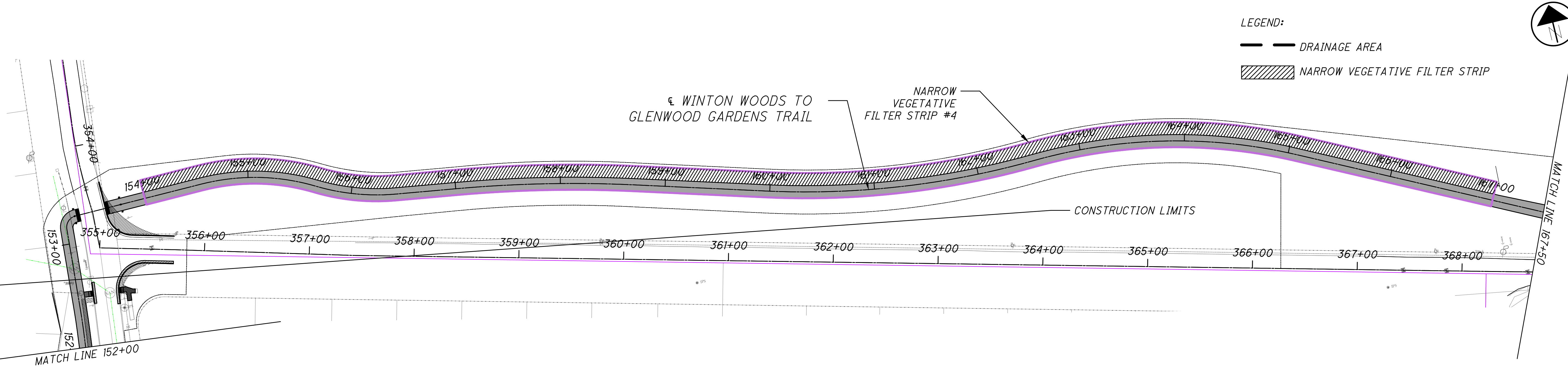
PROJECT ID

117016

SHEET TOTAL

P.30 210



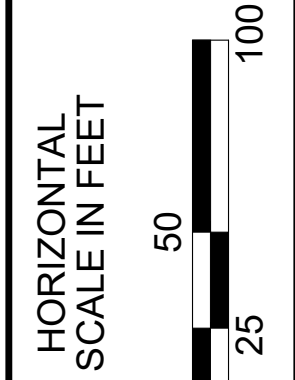
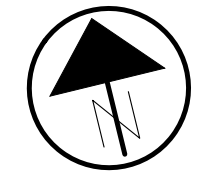


POST CONSTRUCTION BMP PLAN  
NARROW FILTER STRIP #4, #5, AND #6

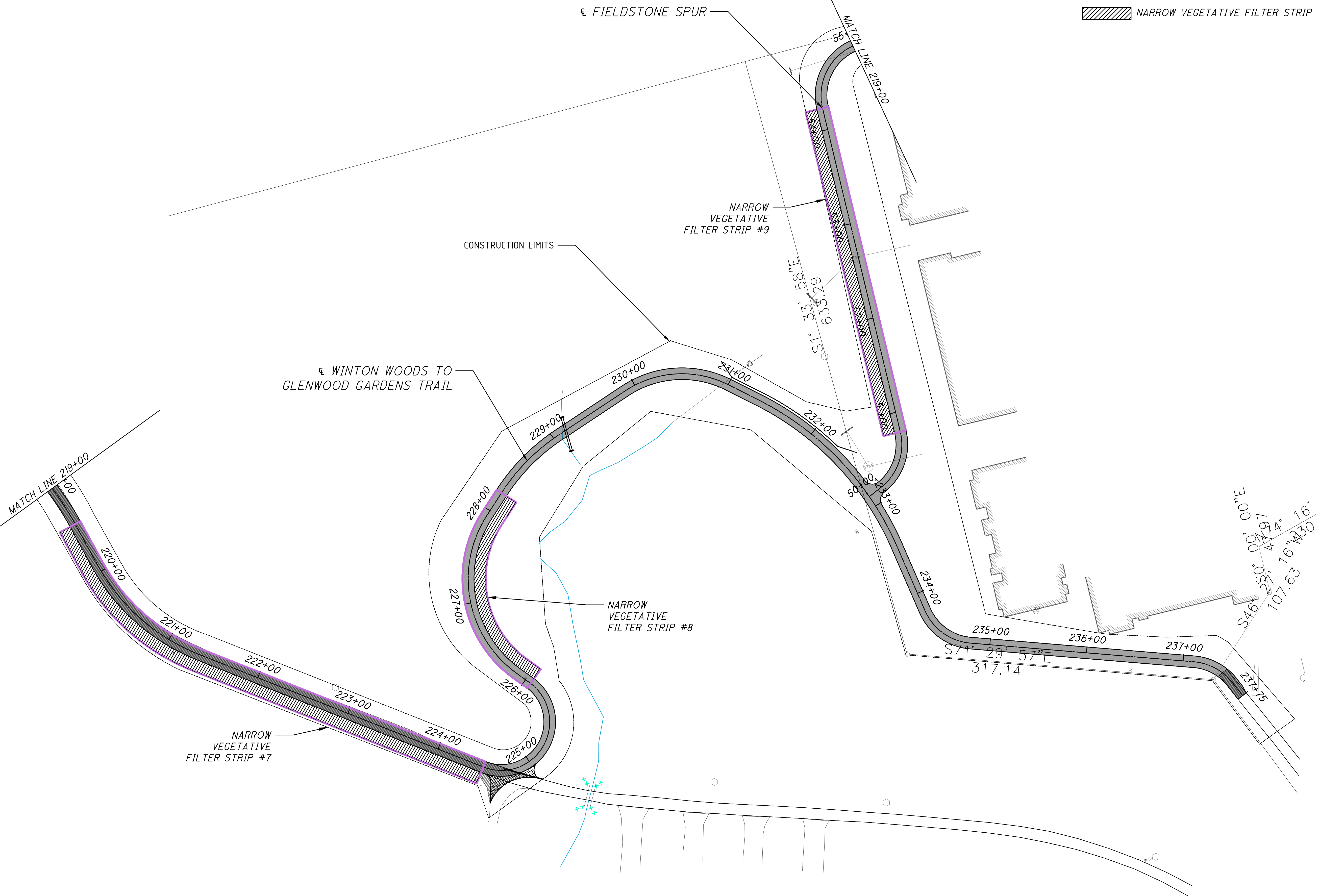
DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	TOTAL
P.31	210





LEGEND:  
 --- DRAINAGE AREA  
 ▨ NARROW VEGETATIVE FILTER STRIP



POST CONSTRUCTION BMP PLAN  
 NARROW FILTER STRIP #7, #8, AND #9

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

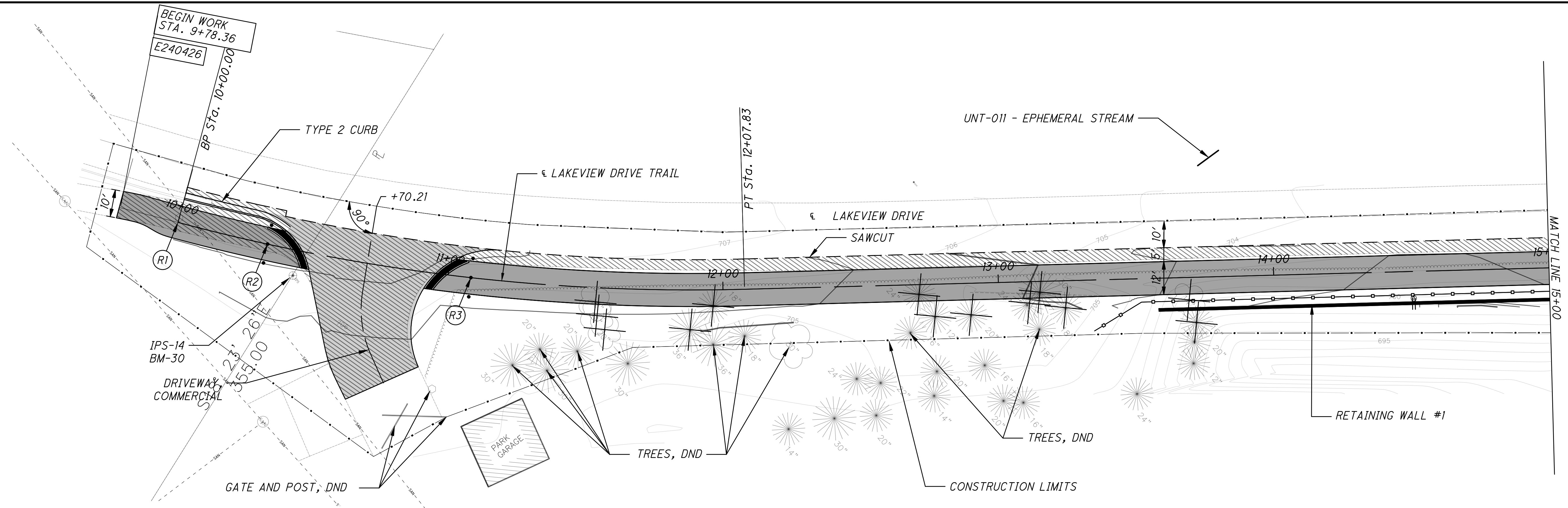
DESIGNER  
 SCR

REVIEWER  
 SCR 3/29/2024

PROJECT ID  
 117016

SHEET	TOTAL
P.32	210



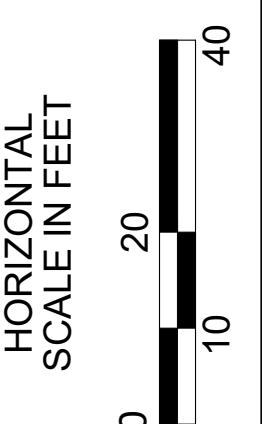
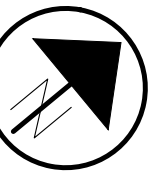
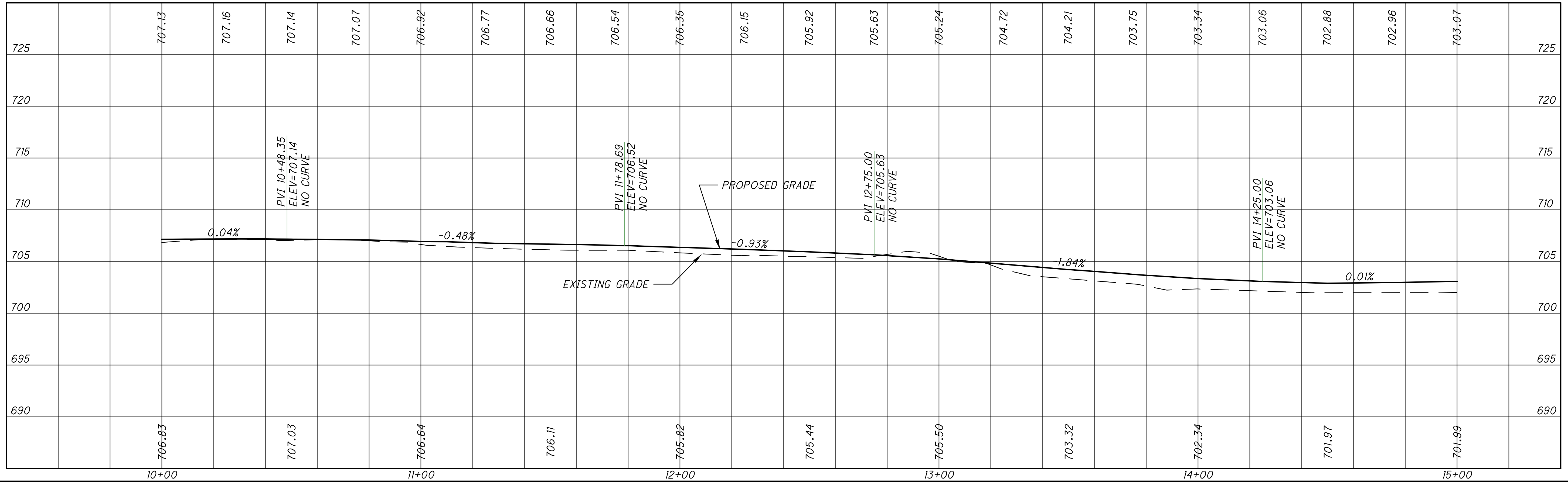


**UTILITY LINETYPE LEGEND**

- E — UNDERGROUND ELECTRIC
- FO — UNDERGROUND FIBER OPTIC
- T — UNDERGROUND TELECOMMUNICATION
- OHT — OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHU — OVERHEAD ELECTRIC / COMBINED
- G — GAS MAIN
- W — WATER MAIN
- SAN — SANITARY SEWER
- S — STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- ▨ PROPOSED ASPHALT PAVEMENT
- ▨ SAWCUT
- ▨ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL
- ▨ PROPOSED DRIVEWAY PAVEMENT



**PLAN AND PROFILE - LAKEVIEW DRIVE  
STA. 9+78.36 TO STA. 15+00.00**

DESIGN AGENCY



DESIGNER  
**SCR**

REVIEWER  
**SCR**

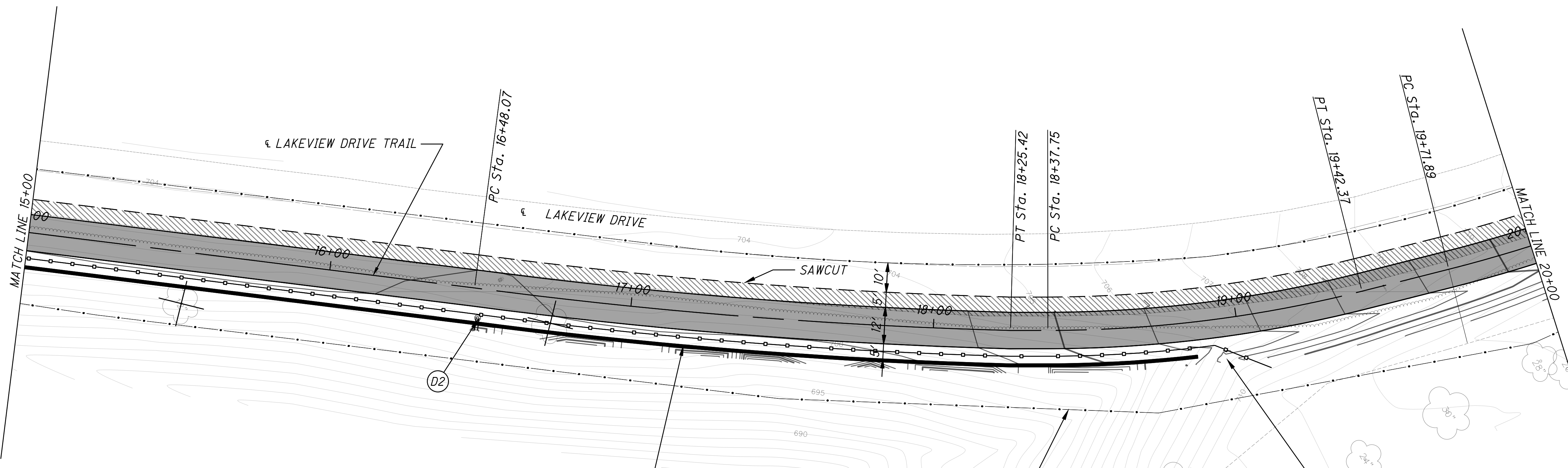
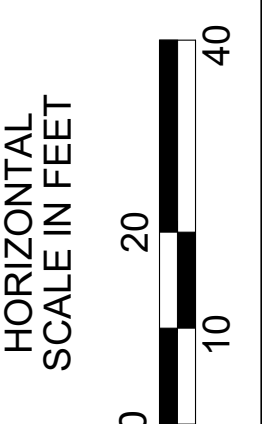
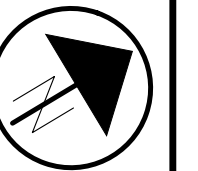
PROJECT ID  
**117016**

SHEET TOTAL  
P.33 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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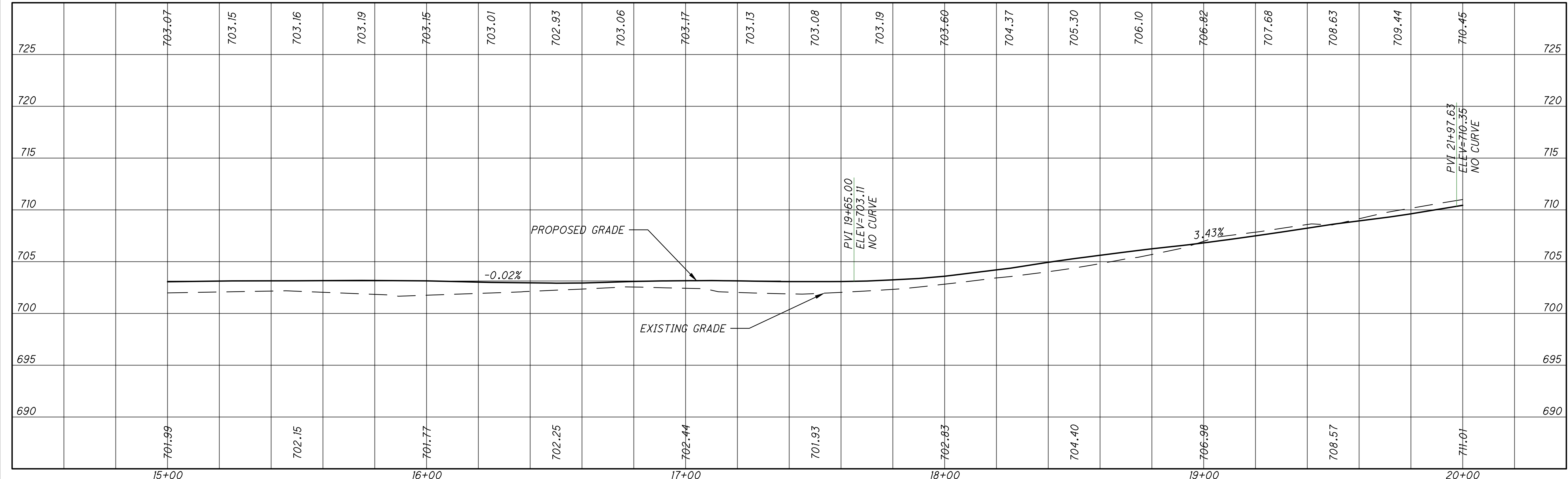


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHU OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- ▨ PROPOSED ASPHALT PAVEMENT
- SAWCUT
- ▨ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- ▬ RETAINING WALL



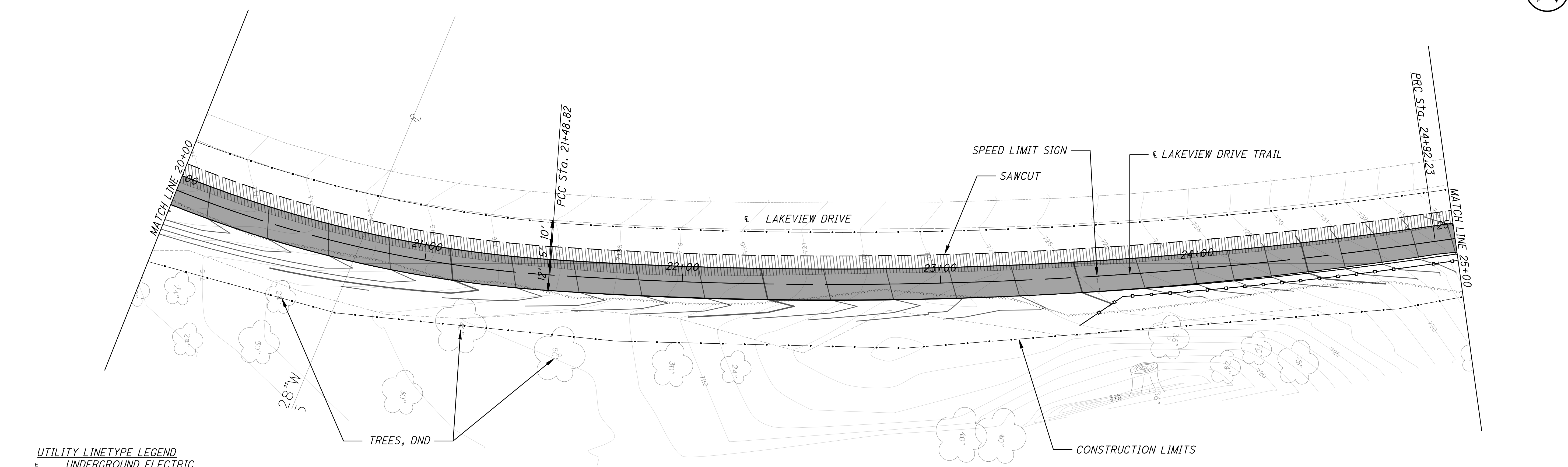
PLAN AND PROFILE - LAKEVIEW DRIVE  
STA. 15+00.00 TO STA. 20+00.00

DESIGN AGENCY  
**KZFJ-SIGN**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.34 210

HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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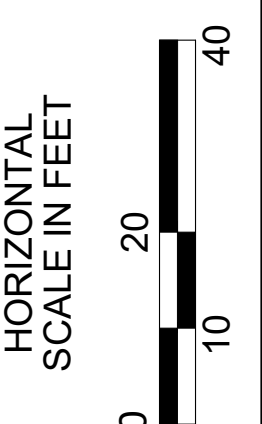
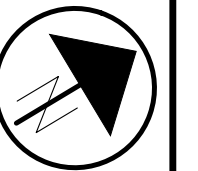
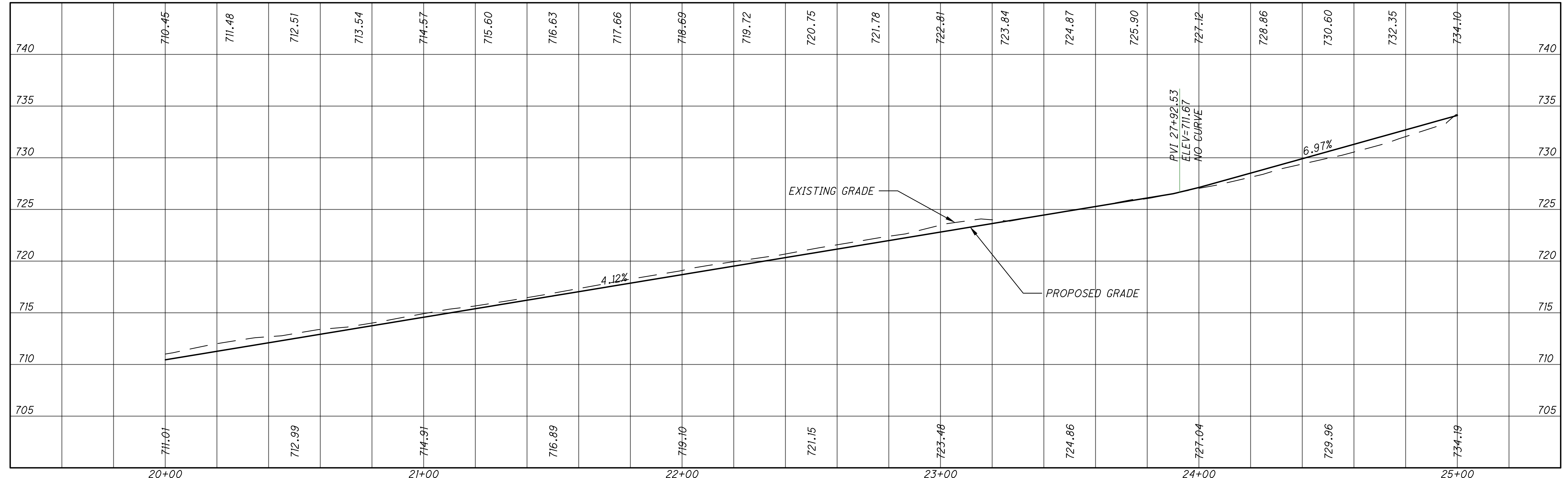


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL



PLAN AND PROFILE - LAKEVIEW DRIVE  
STA. 20+00.00 TO STA. 25+00.00

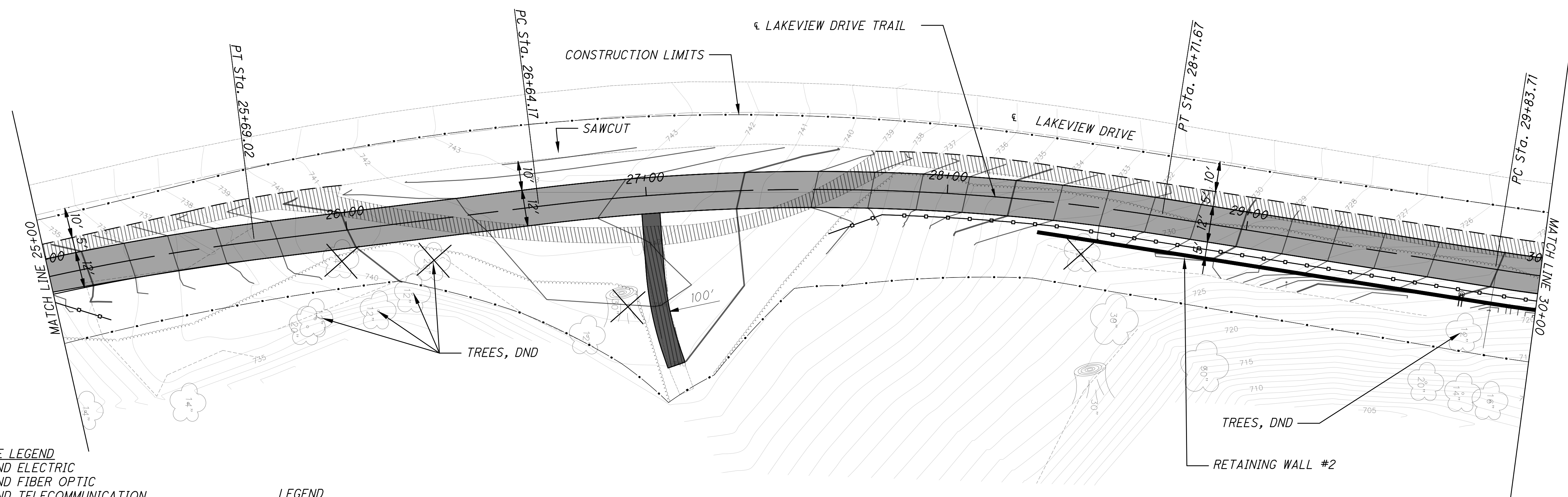
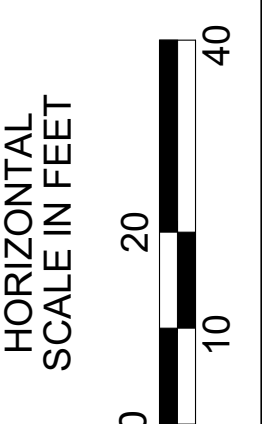
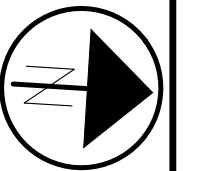
DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.35
TOTAL	210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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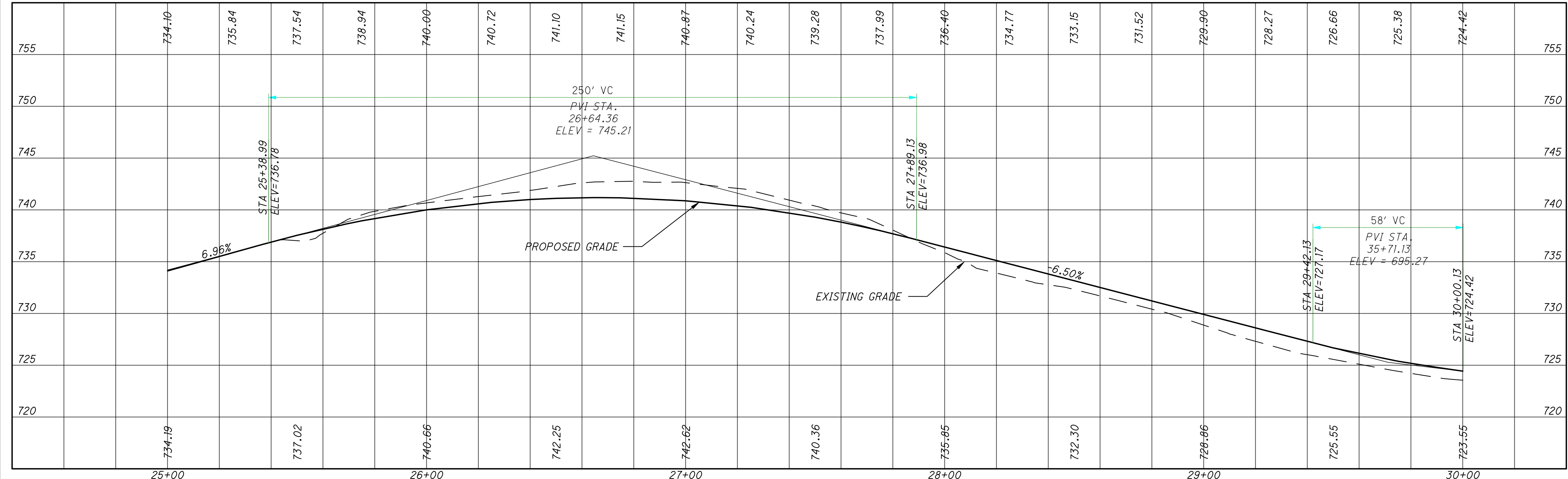


UTILITY LINETYPE LEGEND

- E — UNDERGROUND ELECTRIC
- FO — UNDERGROUND FIBER OPTIC
- T — UNDERGROUND TELECOMMUNICATION
- OHT — OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHU — OVERHEAD ELECTRIC / COMBINED
- G — GAS MAIN
- W — WATER MAIN
- SAN — SANITARY SEWER
- S — STORM SEWER

LEGEND

- CONSTRUCTION LIMITS
- ▨ PROPOSED ASPHALT PAVEMENT
- ▨ SAWCUT
- ▨ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- ▬ RETAINING WALL



PLAN AND PROFILE - LAKEVIEW DRIVE  
STA. 25+00.00 TO STA. 30+00.00

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

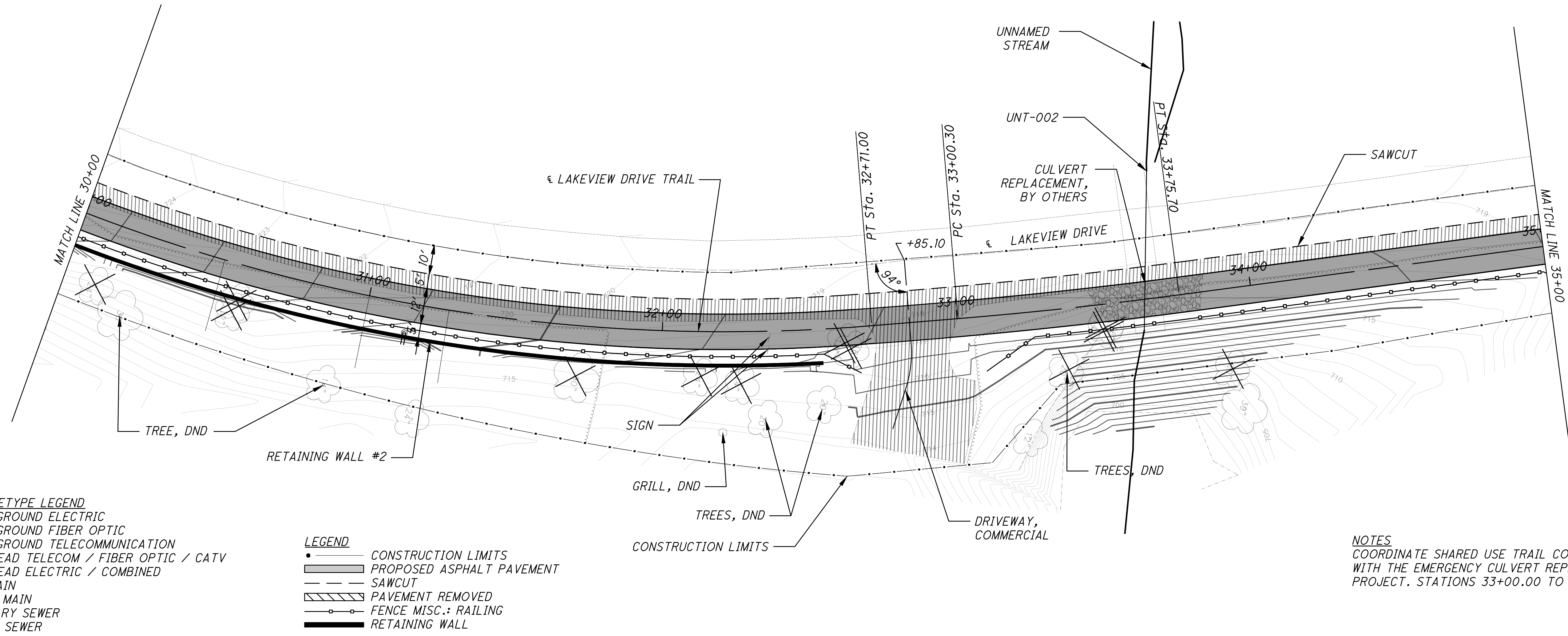
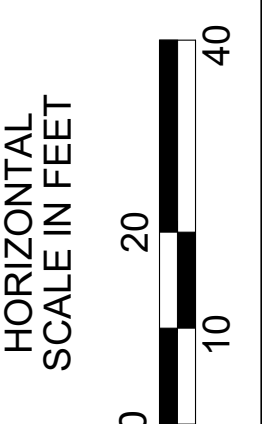
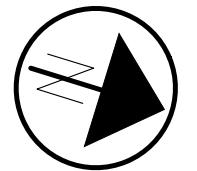
DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

PROJECT ID  
117016

SHEET TOTAL  
P.36 210





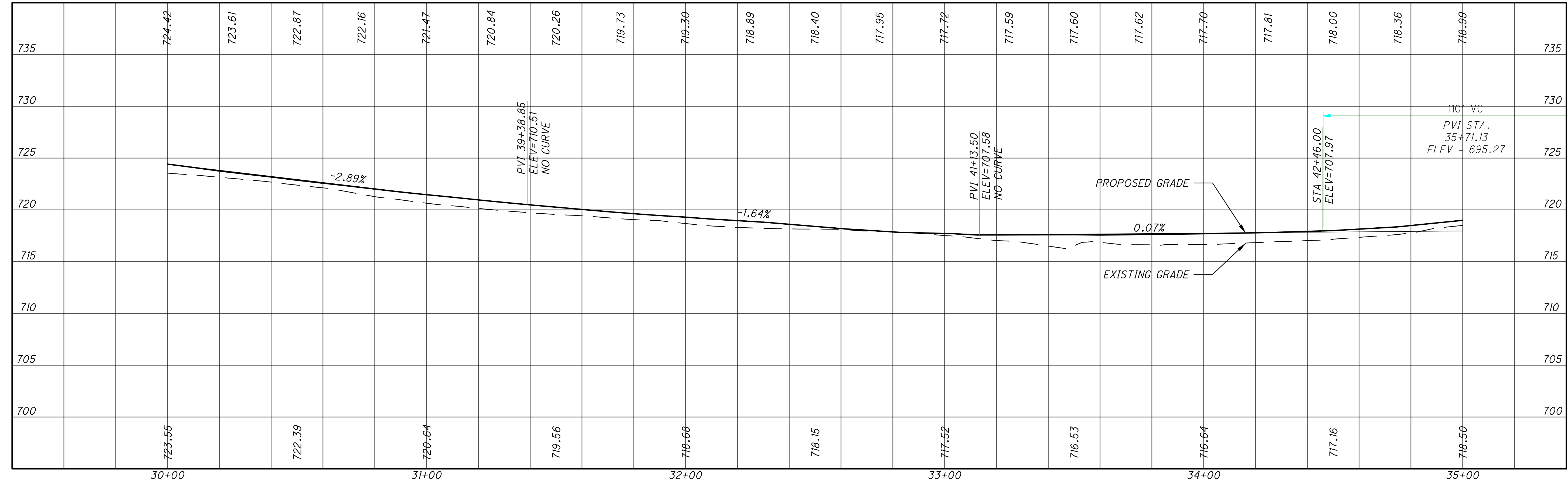
**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- ▨ PROPOSED ASPHALT PAVEMENT
- ▨ SAWCUT
- ▨ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- ▬ RETAINING WALL

**NOTES**  
 COORDINATE SHARED USE TRAIL CONSTRUCTION WITH THE EMERGENCY CULVERT REPLACEMENT PROJECT. STATIONS 33+00.00 TO 34+50.00



**PLAN AND PROFILE - LAKEVIEW DRIVE  
 STA. 30+00.00 TO STA. 35+00.00**

DESIGN AGENCY  
**KZFJ-SIGN**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 SCR

REVIEWER  
 SCR 3/29/2024

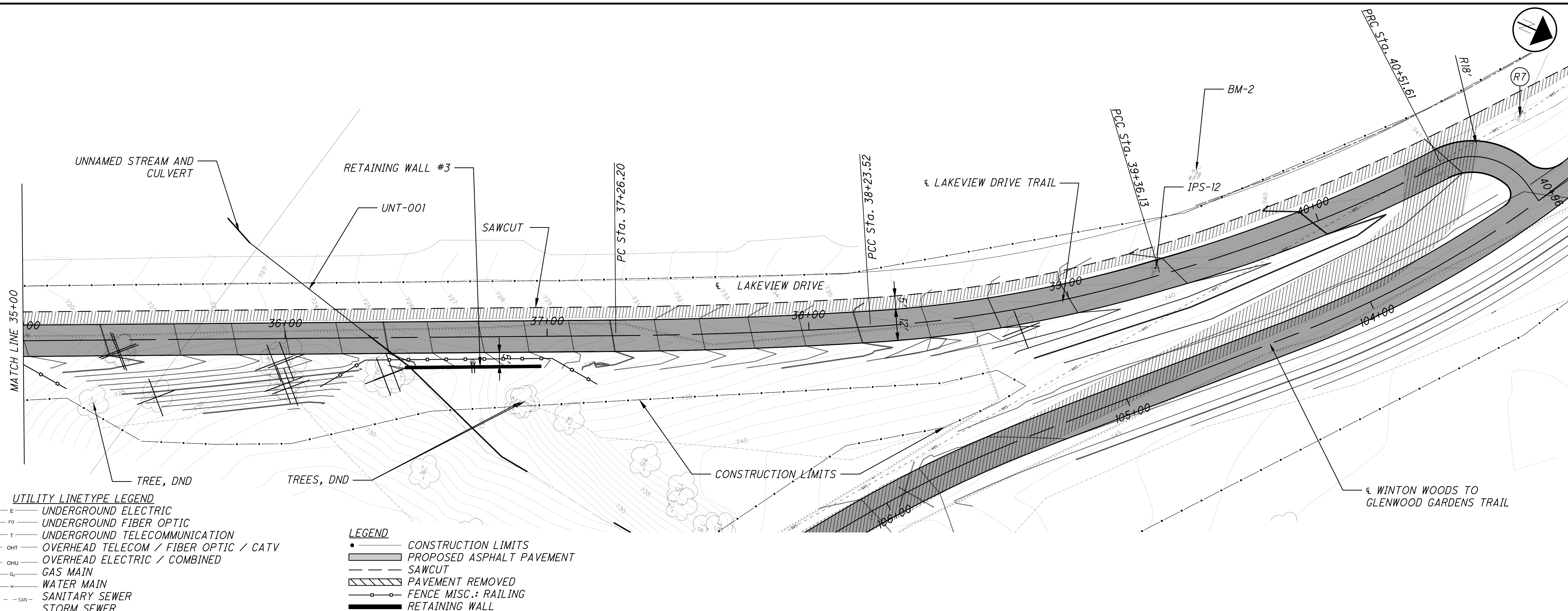
PROJECT ID  
 117016

SHEET TOTAL  
 P.37 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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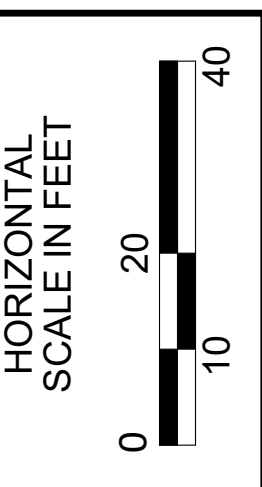
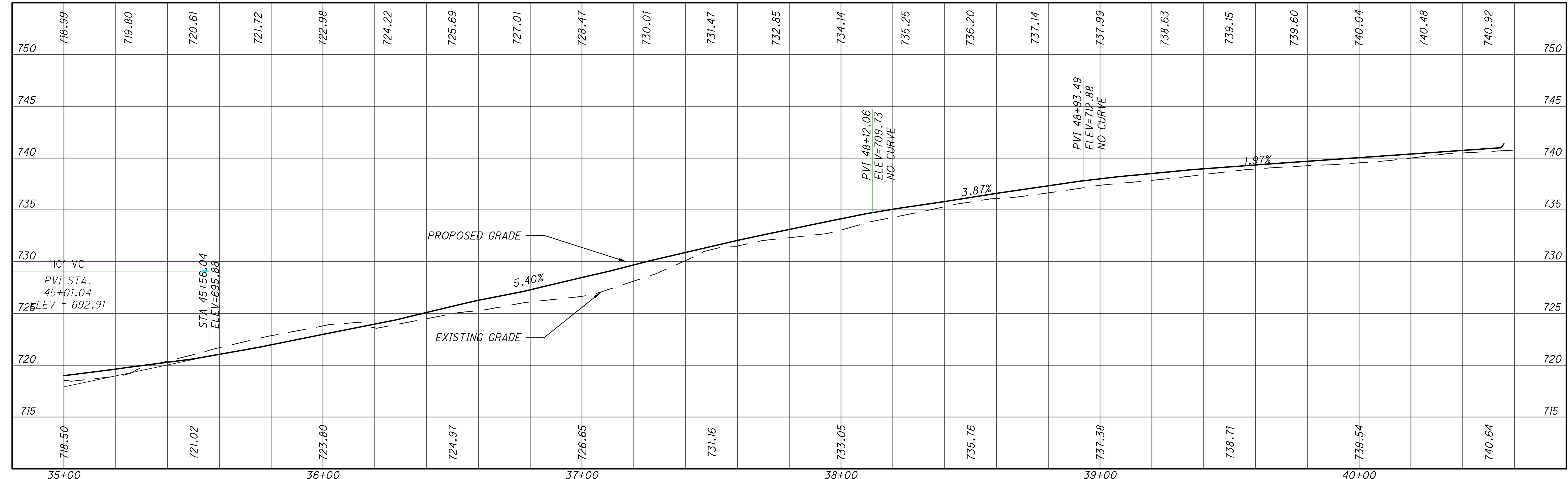


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
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- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL



PLAN AND PROFILE - LAKEVIEW DRIVE  
STA. 35+00.00 TO STA. 40+96.00

DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures

700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

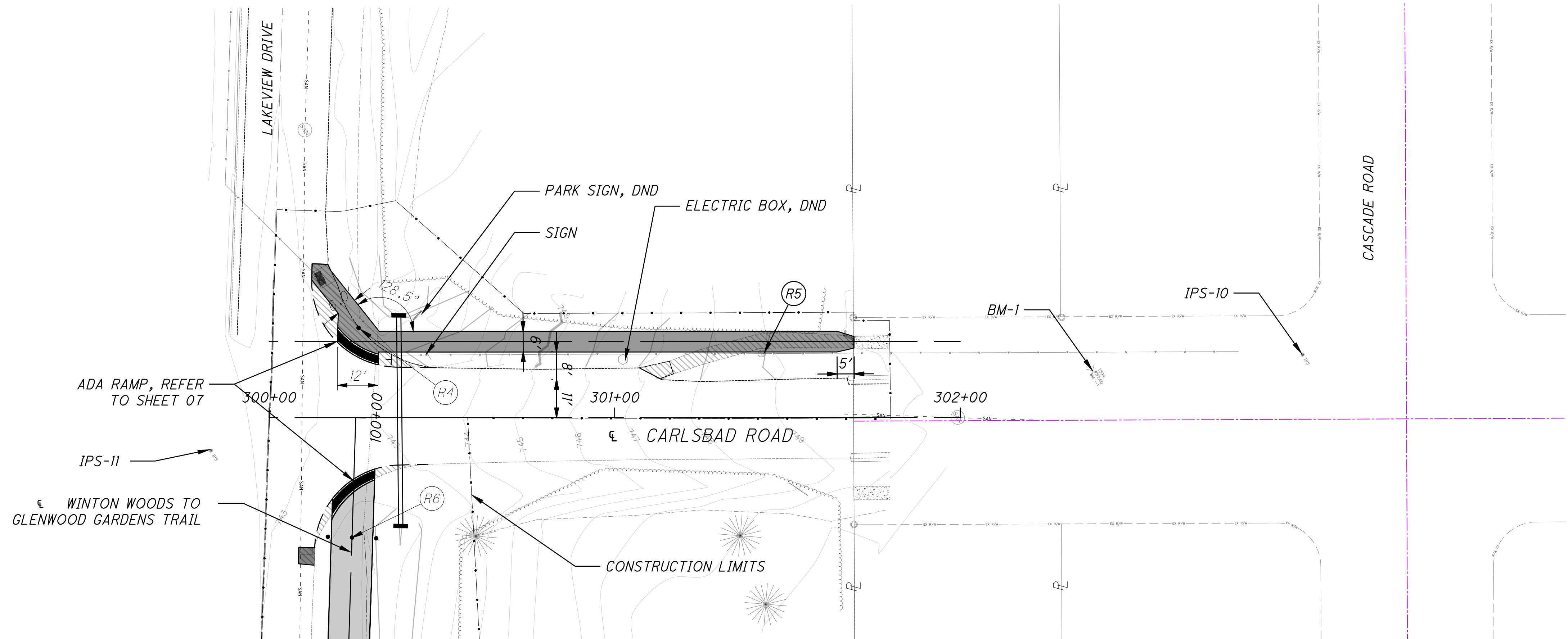
DESIGNER  
SCR

REVIEWER  
SCR

PROJECT ID  
117016

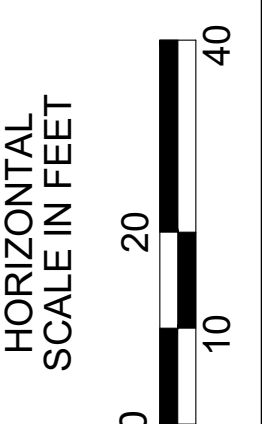
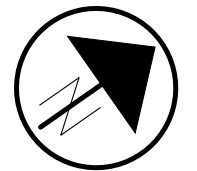
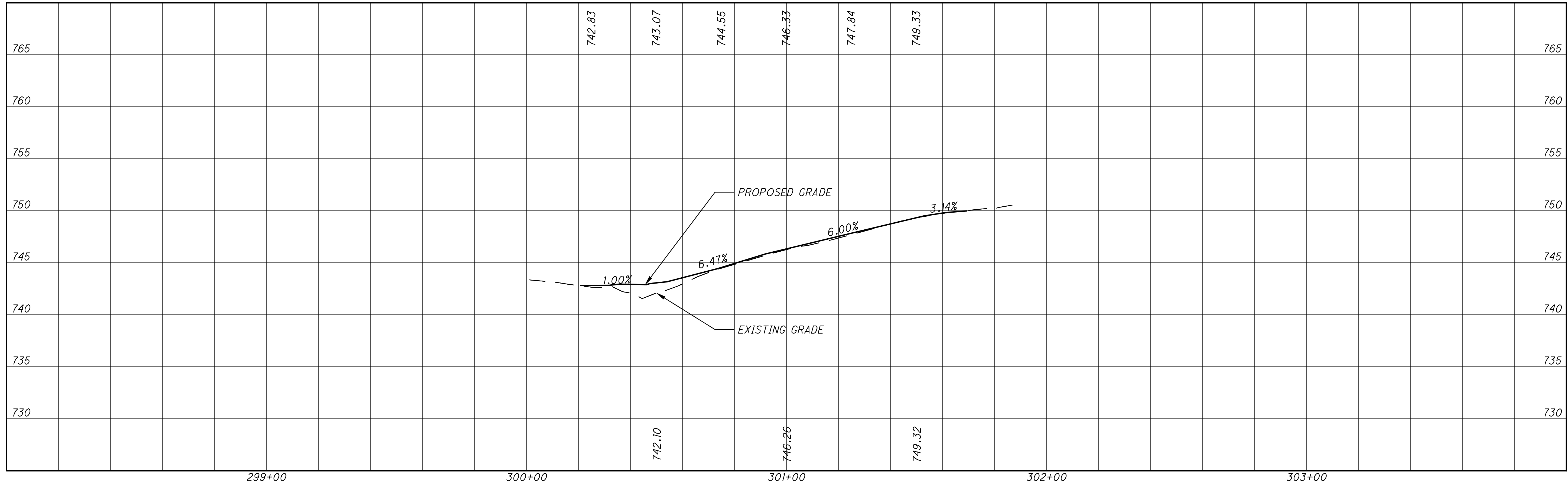
SHEET TOTAL  
P.38 210





- UTILITY LINETYPE LEGEND**
- E UNDERGROUND ELECTRIC
  - FO UNDERGROUND FIBER OPTIC
  - T UNDERGROUND TELECOMMUNICATION
  - OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
  - OHU OVERHEAD ELECTRIC / COMBINED
  - G GAS MAIN
  - W WATER MAIN
  - SAN SANITARY SEWER
  - STORM SEWER

- LEGEND**
- CONSTRUCTION LIMITS
  - ▨ PROPOSED ASPHALT PAVEMENT
  - SAWCUT
  - ▨ PAVEMENT REMOVED
  - FENCE MISC.: RAILING
  - ▨ PROPOSED CONCRETE SIDEWALK



**PLAN AND PROFILE - CARLSBAD ROAD**  
 STA. 300+00.00 TO STA. 302+00.00

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 SCR  
 REVIEWER  
 SCR 3/29/2024  
 PROJECT ID  
 117016  
 SHEET TOTAL  
 P.39 210

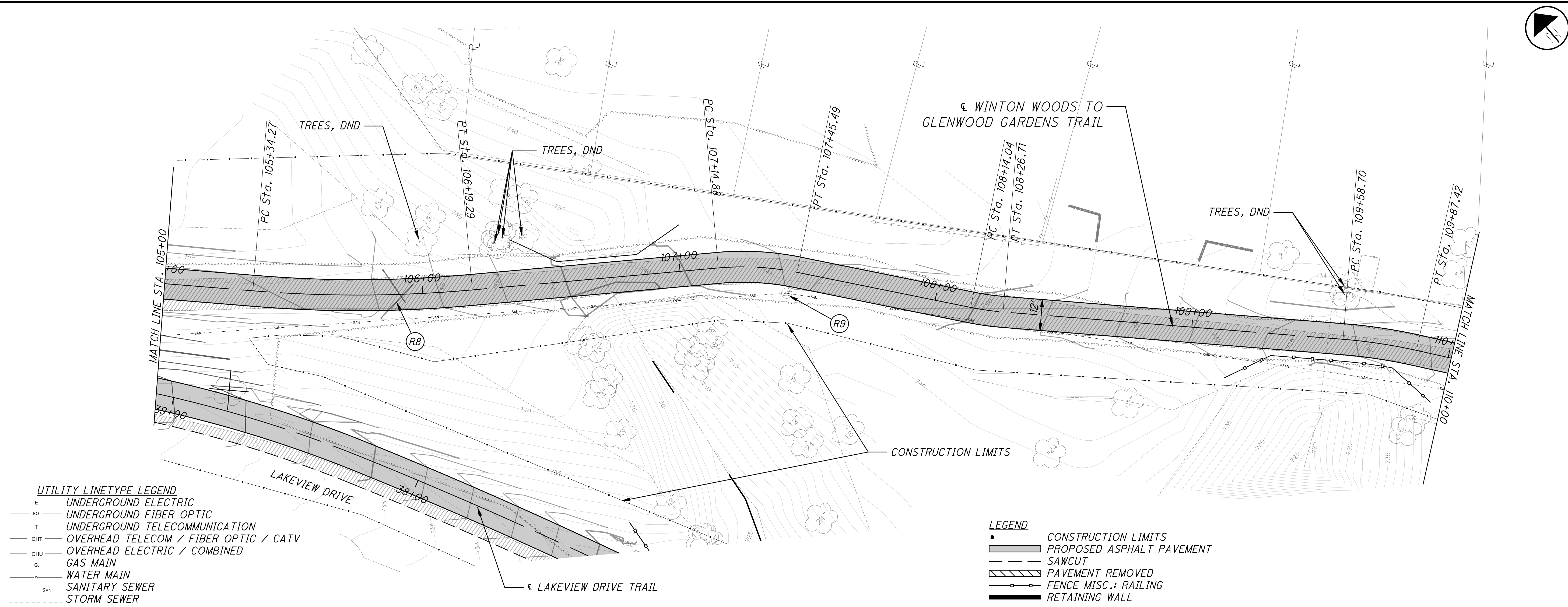






HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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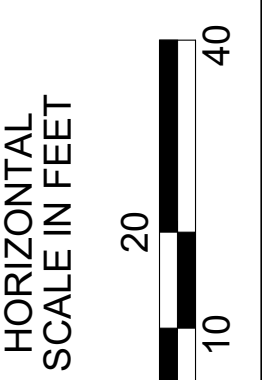
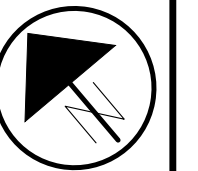
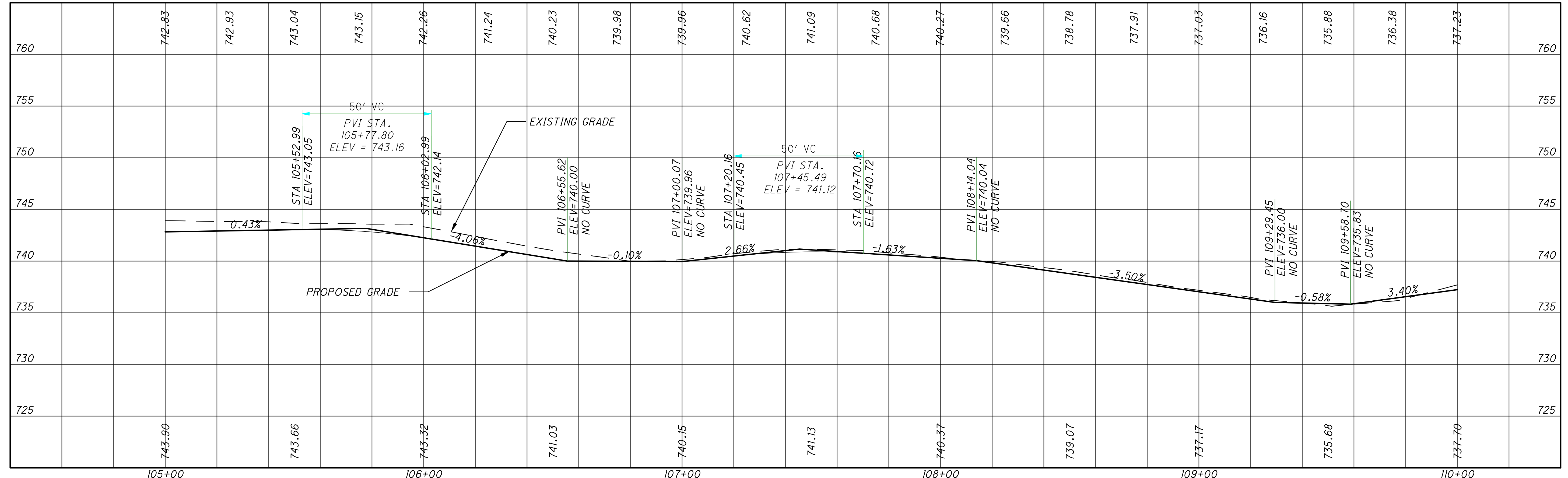


**UTILITY LINETYPE LEGEND**

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**LEGEND**

- CONSTRUCTION LIMITS
- ▨ PROPOSED ASPHALT PAVEMENT
- SAWCUT
- ▨ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 105+00.00 TO STA. 110+00.00

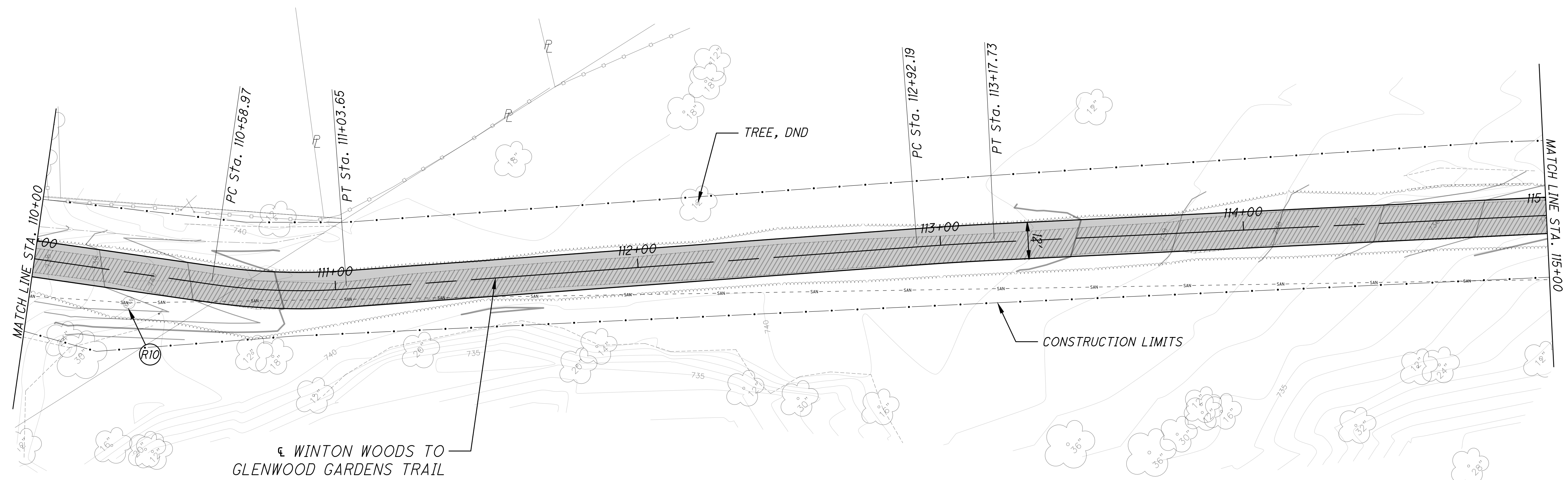
DESIGN AGENCY  
**KZFJ-SIGN**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.41 210



**HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL**

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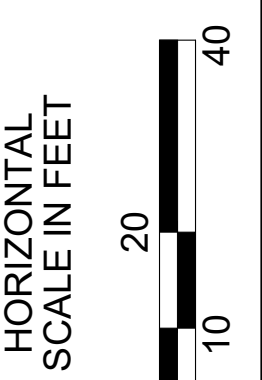
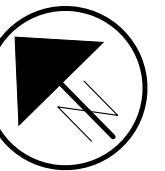
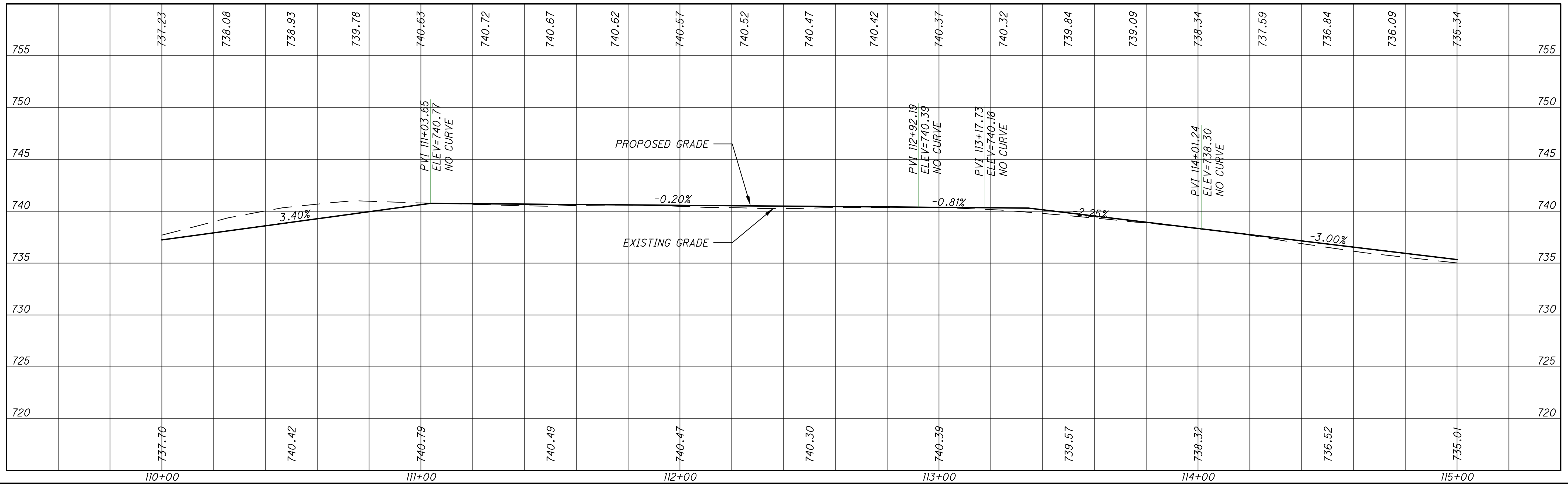


**UTILITY LINETYPE LEGEND**

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- S — STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- ▨ PROPOSED ASPHALT PAVEMENT
- SAWCUT
- ▩ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL



**PLAN AND PROFILE - WW TO GG  
STA. 110+00.00 TO STA. 115+00.00**

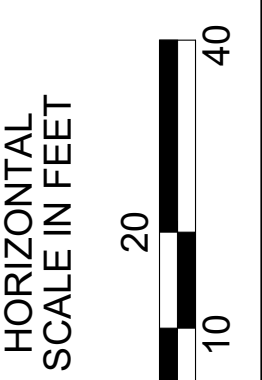
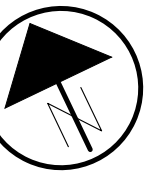
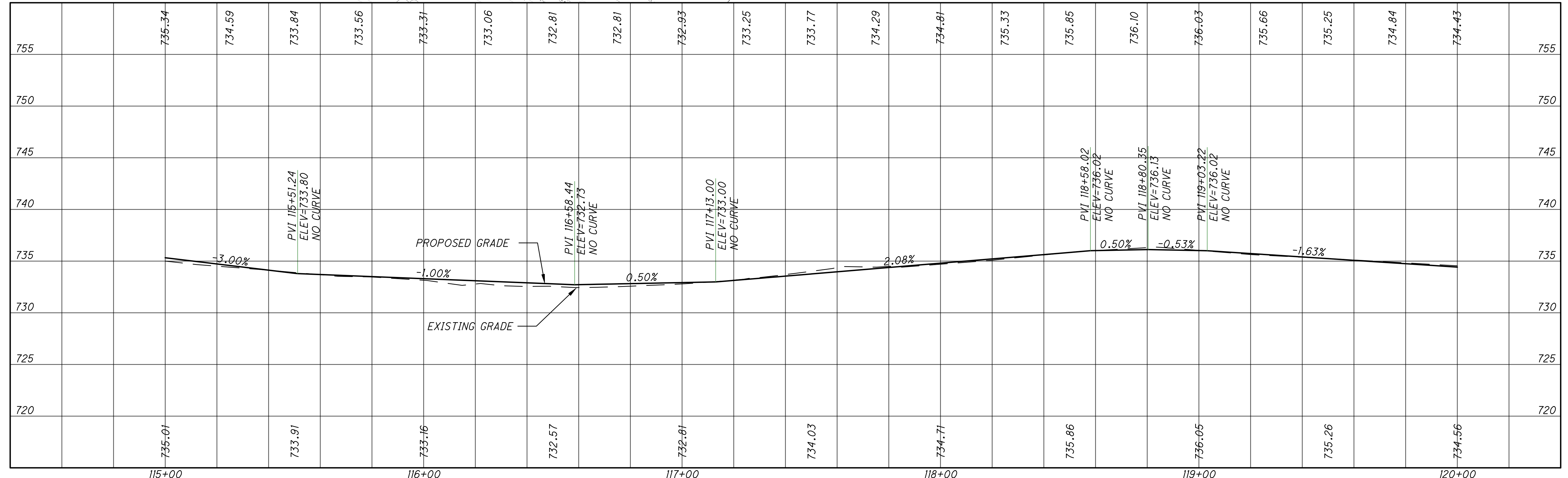
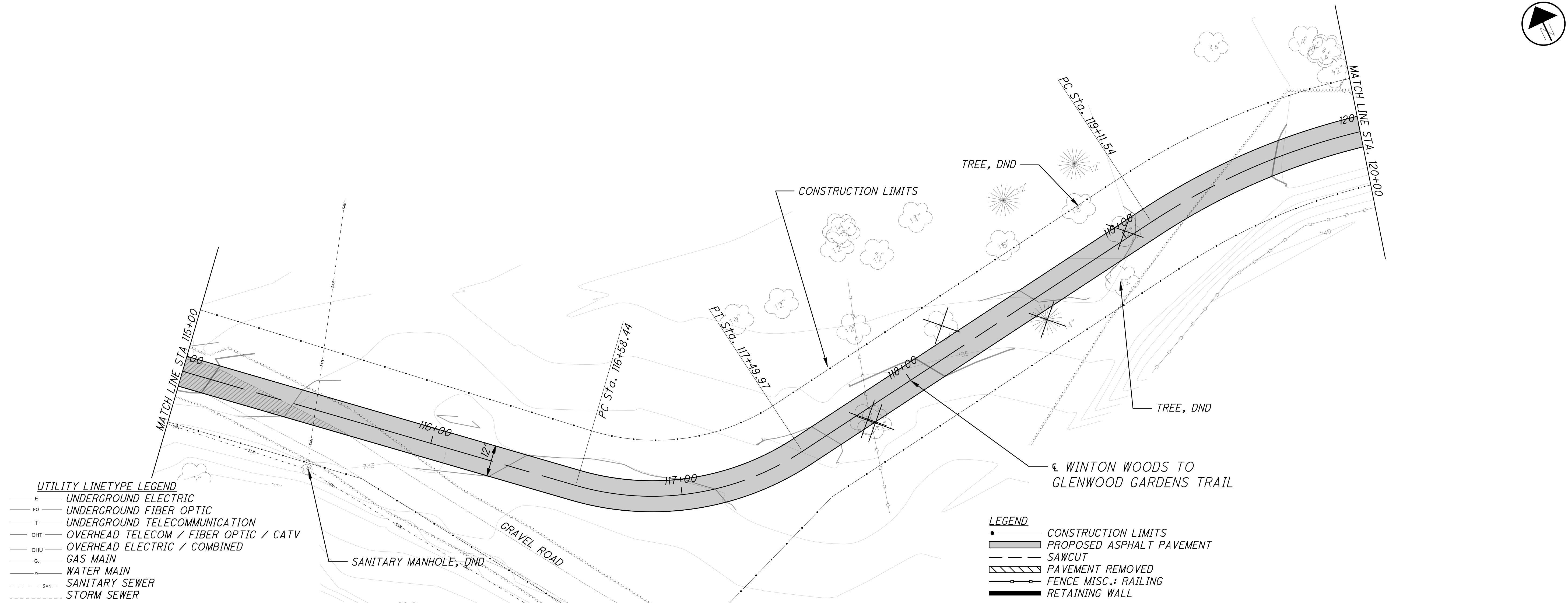
DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 SCR  
 REVIEWER  
 SCR 3/29/2024  
 PROJECT ID  
 117016  
 SHEET TOTAL  
 P.42 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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PLAN AND PROFILE - WW TO GG  
STA. 115+00.00 TO STA. 120+00.00

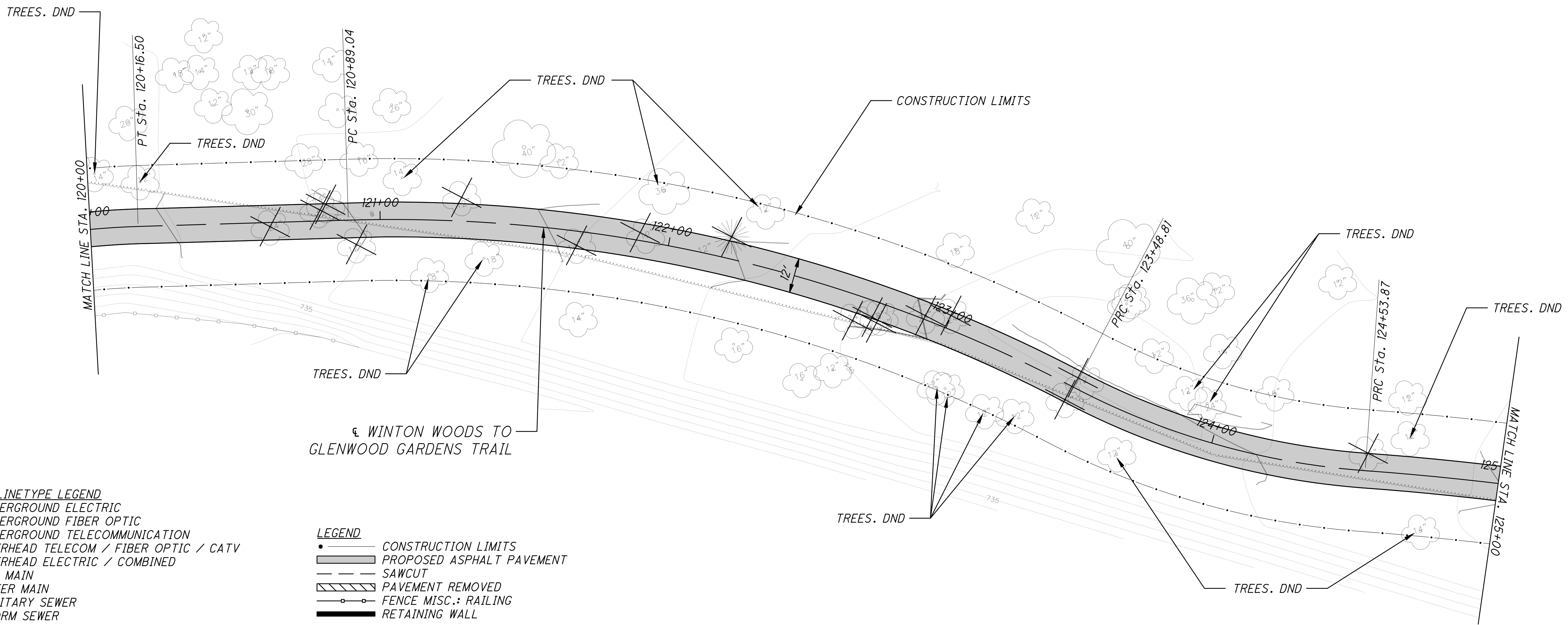
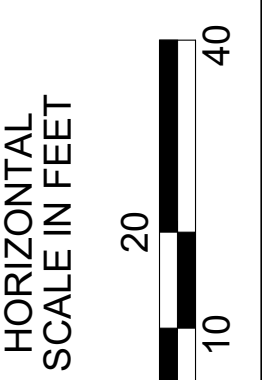
DESIGN AGENCY  
**KZFJ-SIGN**  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.43 210



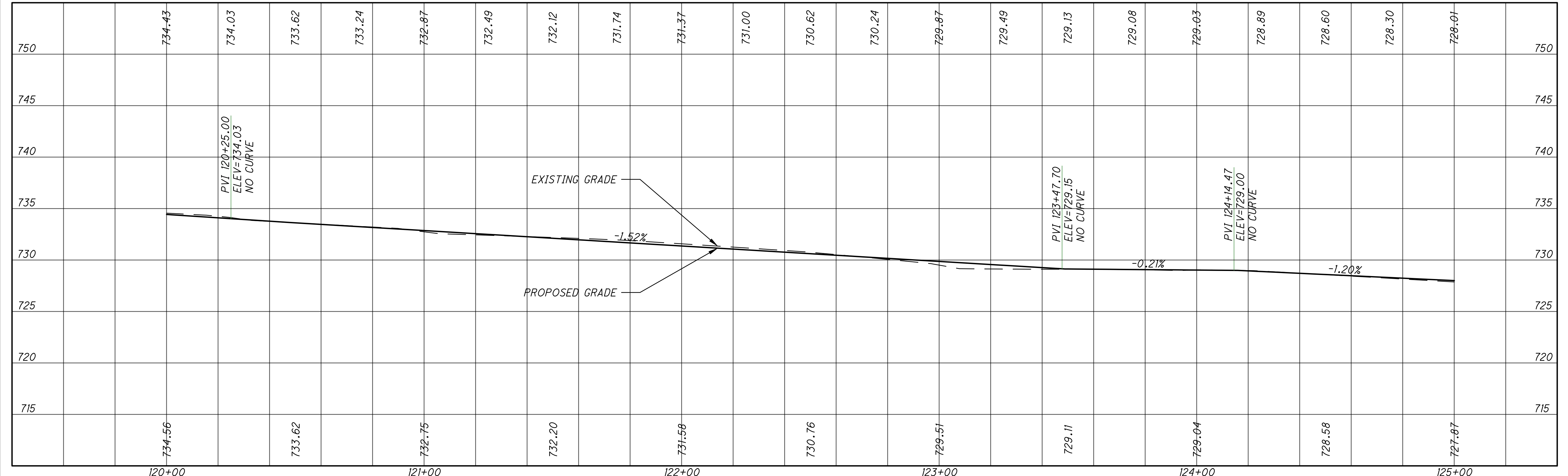
HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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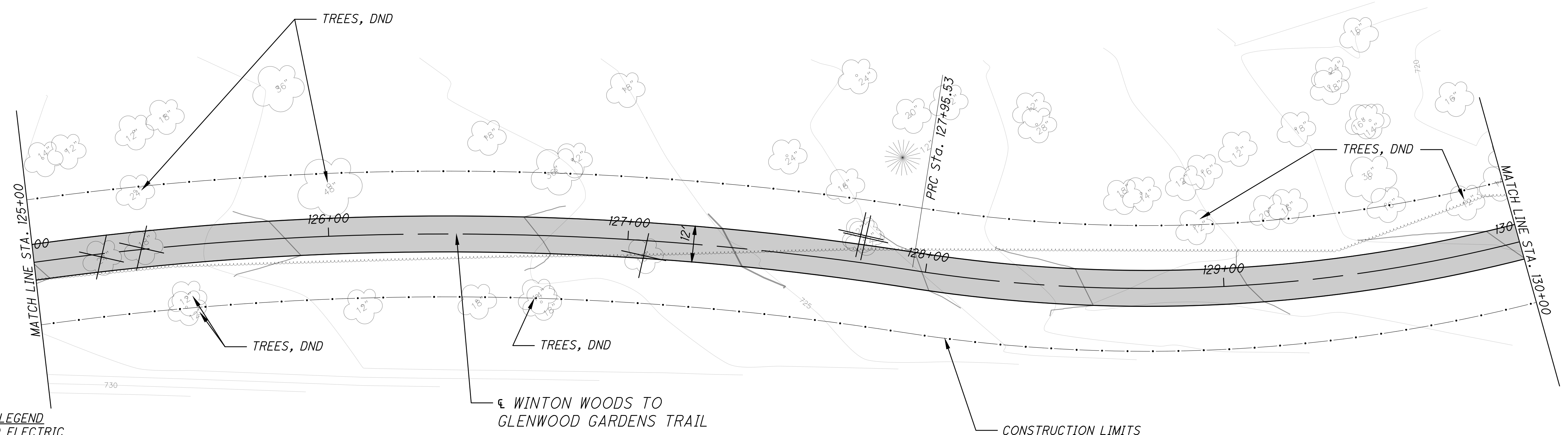
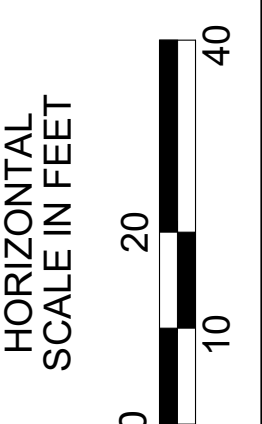
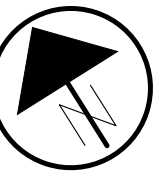
- UTILITY LINETYPE LEGEND**
- E UNDERGROUND ELECTRIC
  - FO UNDERGROUND FIBER OPTIC
  - T UNDERGROUND TELECOMMUNICATION
  - OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
  - OHE OVERHEAD ELECTRIC / COMBINED
  - G GAS MAIN
  - W WATER MAIN
  - SAN SANITARY SEWER
  - SS STORM SEWER

- LEGEND**
- CONSTRUCTION LIMITS
  - ▬ PROPOSED ASPHALT PAVEMENT
  - - - SAWCUT
  - ▨ PAVEMENT REMOVED
  - FENCE MISC.: RAILING
  - ▬ RETAINING WALL



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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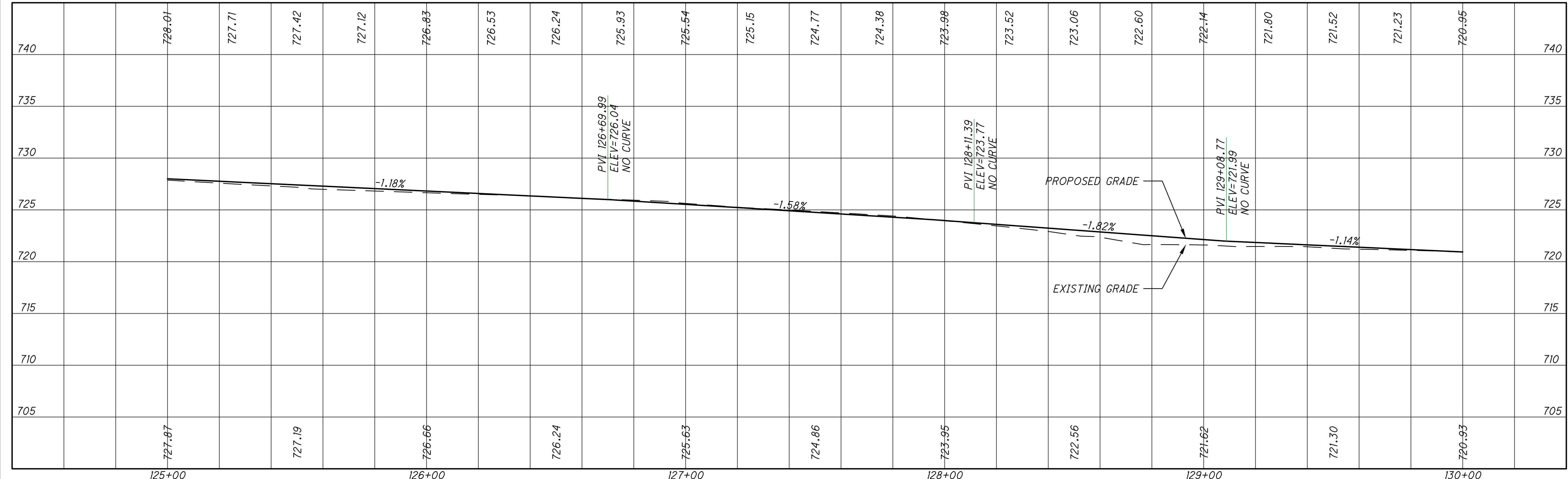


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
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- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 125+00.00 TO STA. 130+00.00

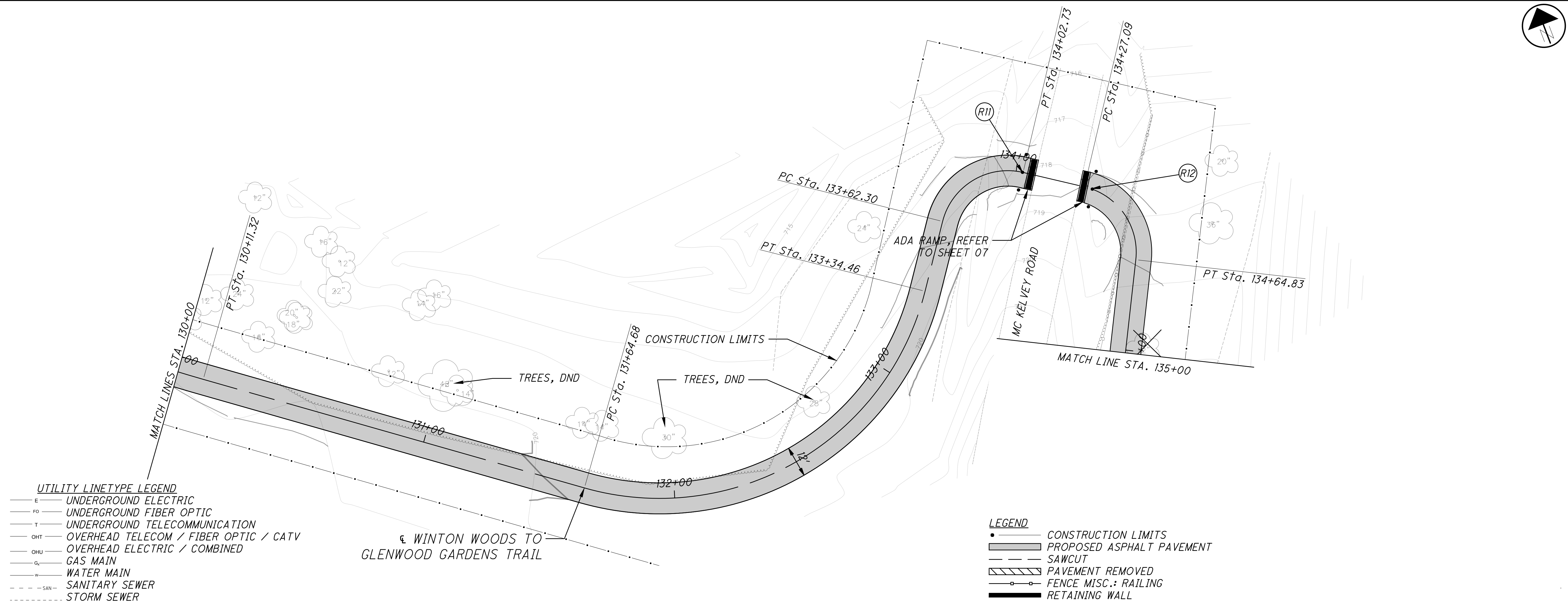
DESIGN AGENCY  
**KZFJ-SIG**  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.45 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

F:\Projects\686100\05\_Deliverables\Drawings\117016\Design\Roadway\Sheets\117016GP008.dwg

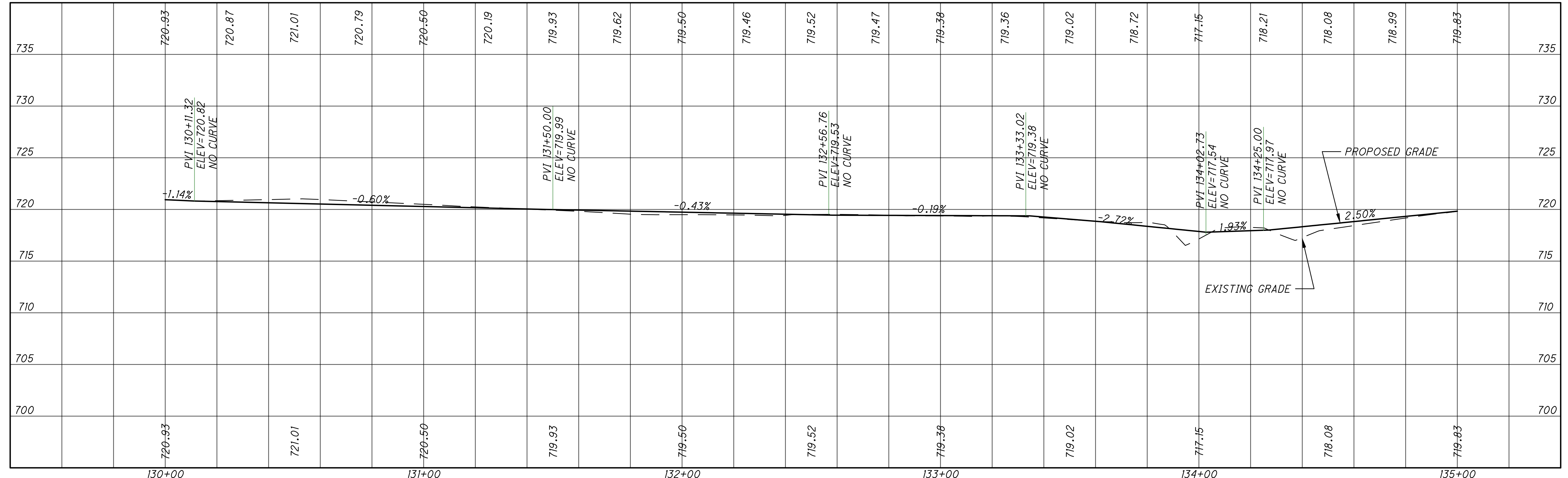


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
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**LEGEND**

- CONSTRUCTION LIMITS
- ▨ PROPOSED ASPHALT PAVEMENT
- - - SAWCUT
- ▩ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- ▬ RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 130+00.00 TO STA. 135+00.00

DESIGN AGENCY  
**KZFJ-SIG**  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

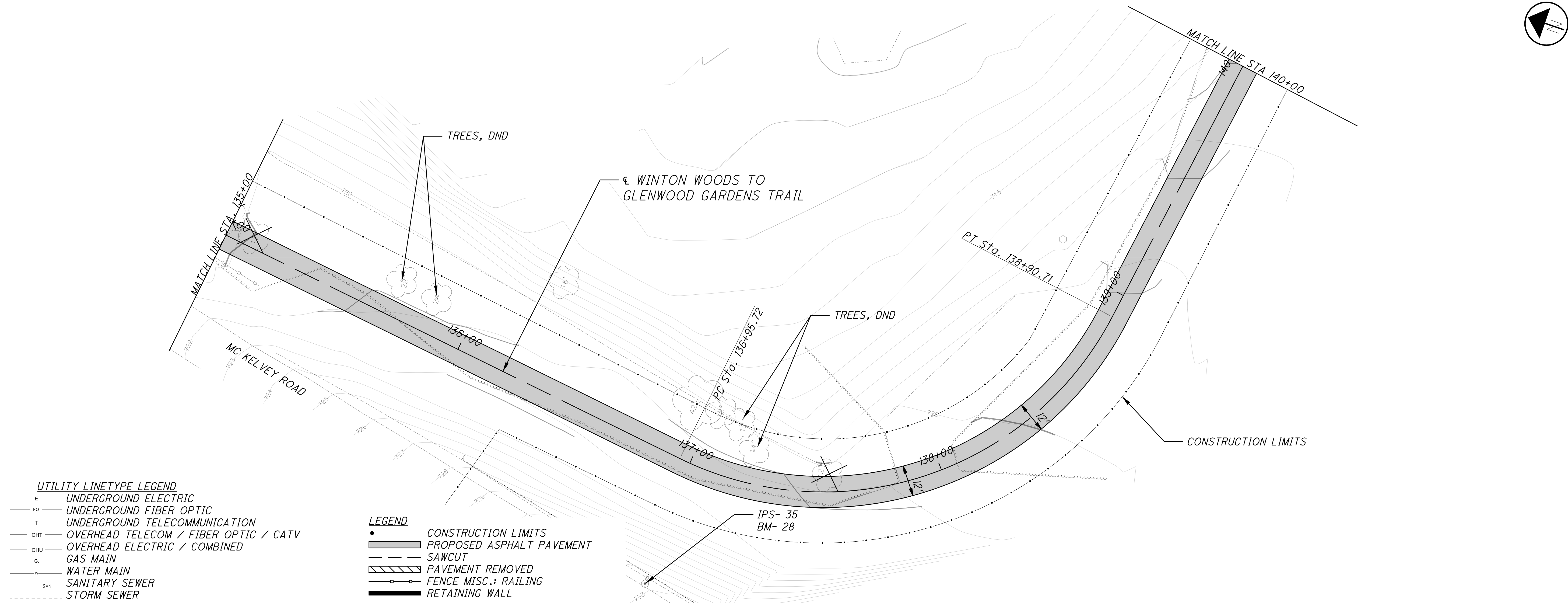
PROJECT ID  
117016

SHEET TOTAL  
P.46 210



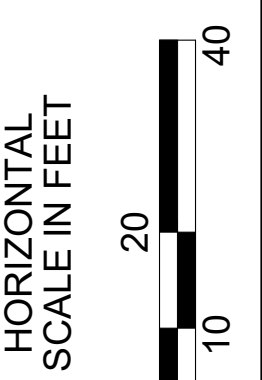
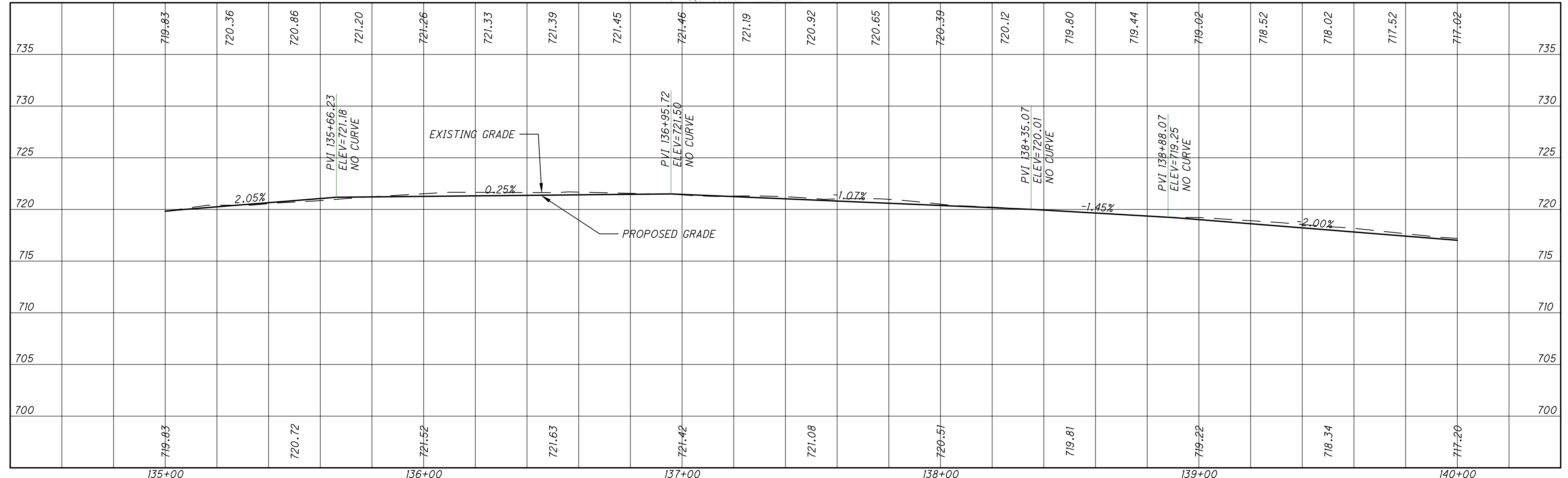
HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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- UTILITY LINETYPE LEGEND**
- E UNDERGROUND ELECTRIC
  - FO UNDERGROUND FIBER OPTIC
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  - G GAS MAIN
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  - SAN SANITARY SEWER
  - SS STORM SEWER

- LEGEND**
- CONSTRUCTION LIMITS
  - ▬ PROPOSED ASPHALT PAVEMENT
  - ▬ SAWCUT
  - ▨ PAVEMENT REMOVED
  - ▬ FENCE MISC.: RAILING
  - ▬ RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 135+00.00 TO STA. 140+00.00

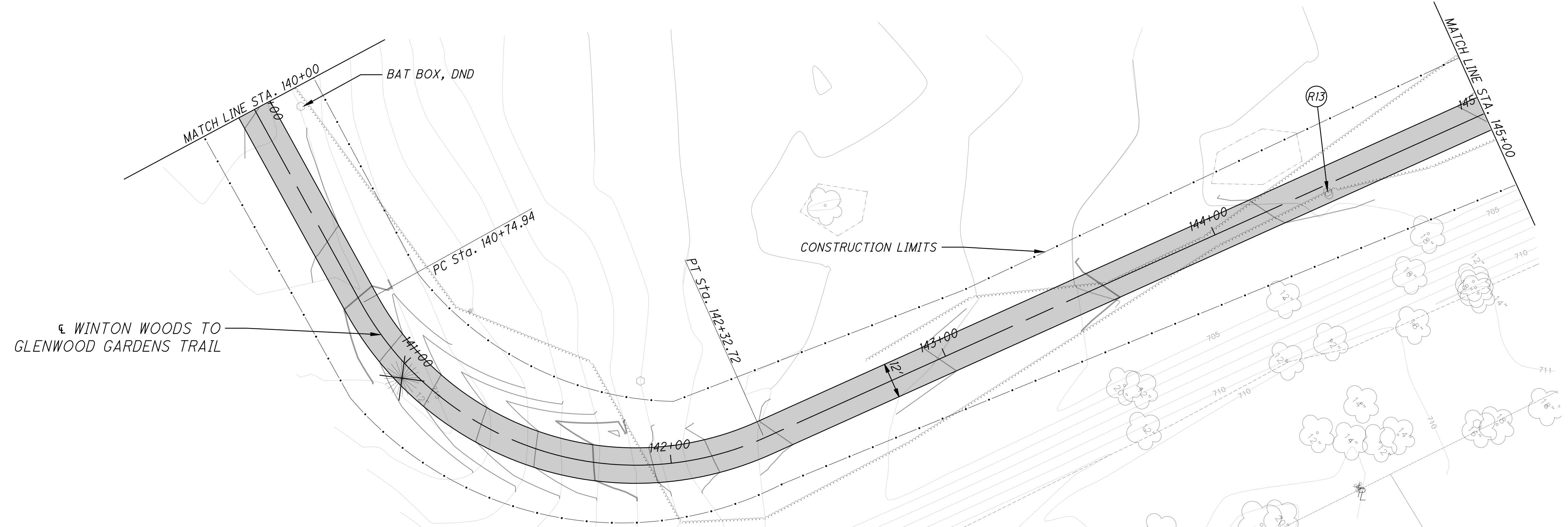
DESIGN AGENCY  
**KZFJ-SIGN**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.47 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

F:\Projects\686100\05\_Deliverables\Drawings\170161\Design\Roadway\Sheets\117016GP008.dwg

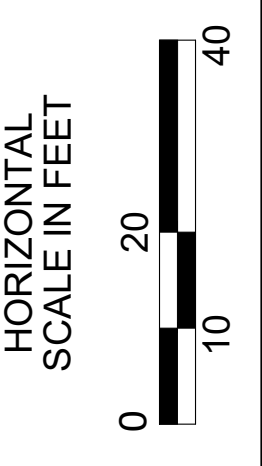
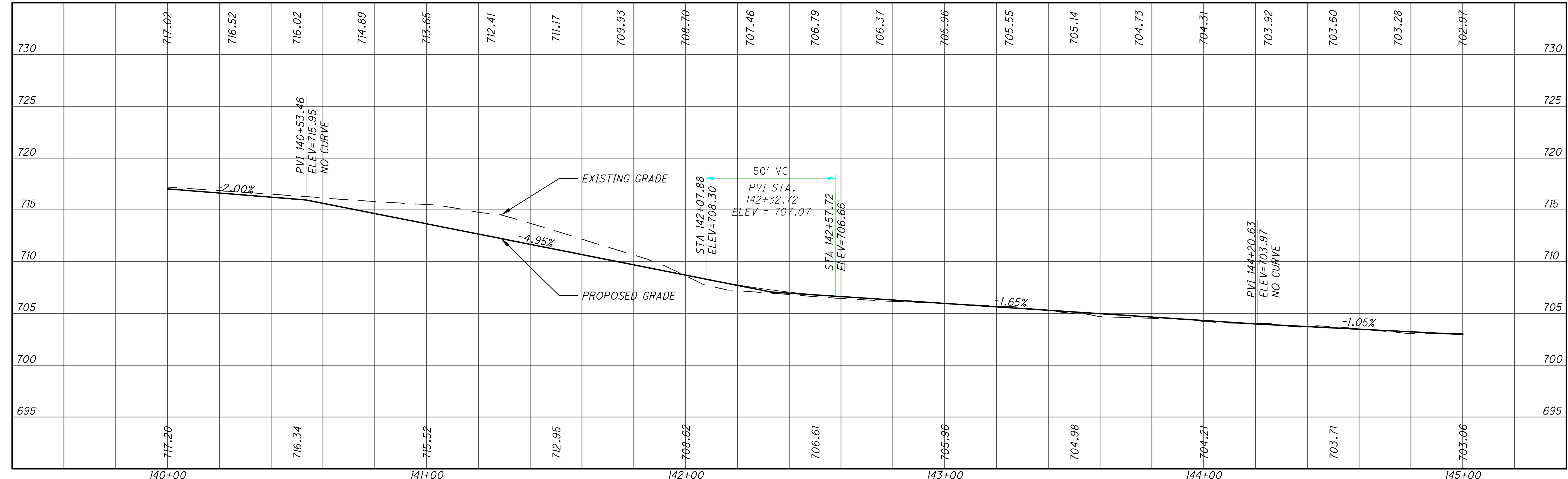


UTILITY LINETYPE LEGEND

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LEGEND

- CONSTRUCTION LIMITS
- ▨ PROPOSED ASPHALT PAVEMENT
- SAWCUT
- ▨ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- ▬ RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 140+00.00 TO STA. 145+00.00

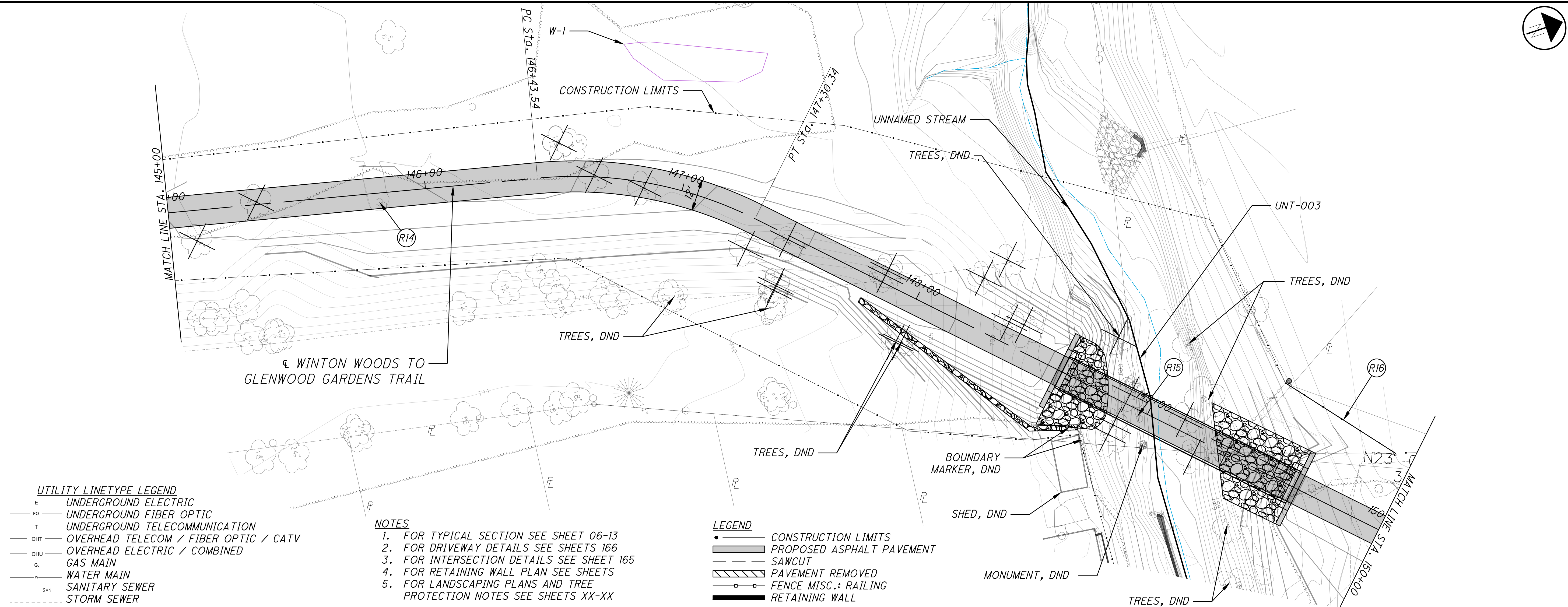
DESIGN AGENCY  
**KZFJ-SIGN**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.48
TOTAL	210



**HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL**

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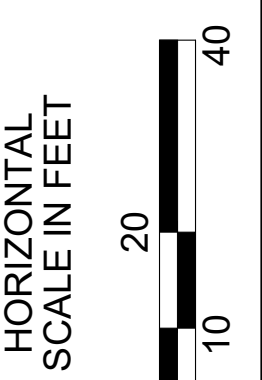
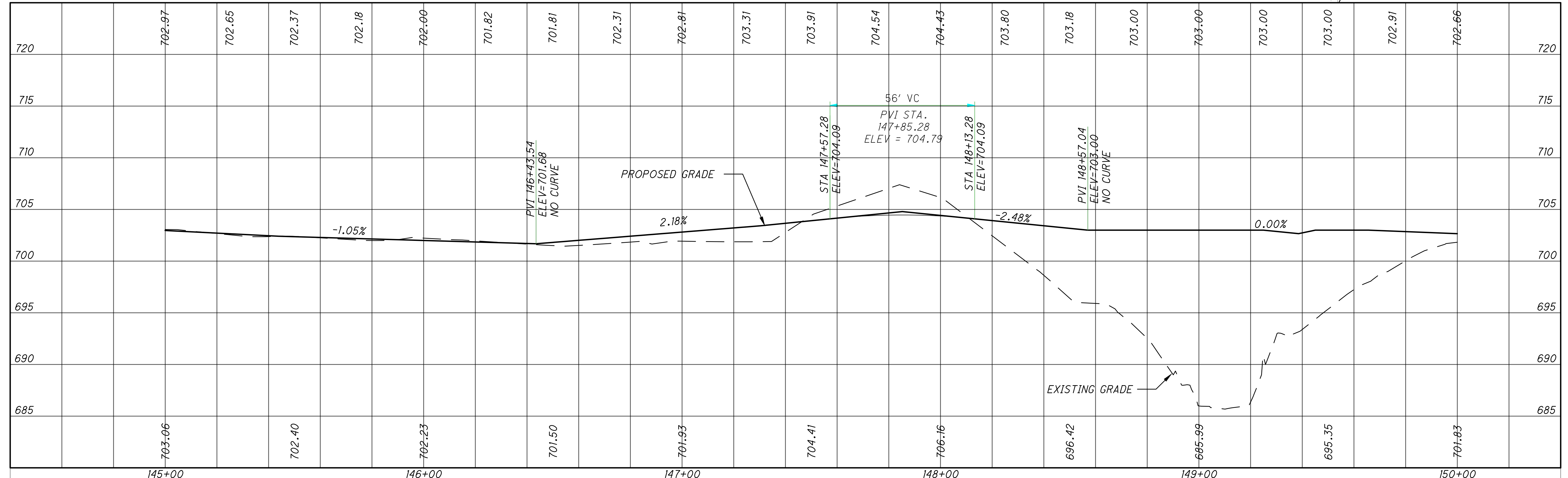
**UTILITY LINETYPE LEGEND**

E	UNDERGROUND ELECTRIC
FO	UNDERGROUND FIBER OPTIC
T	UNDERGROUND TELECOMMUNICATION
OHT	OVERHEAD TELECOM / FIBER OPTIC / CATV
OHU	OVERHEAD ELECTRIC / COMBINED
G	GAS MAIN
W	WATER MAIN
SAN	SANITARY SEWER
---	STORM SEWER

- NOTES**
1. FOR TYPICAL SECTION SEE SHEET 06-13
  2. FOR DRIVEWAY DETAILS SEE SHEETS 166
  3. FOR INTERSECTION DETAILS SEE SHEET 165
  4. FOR RETAINING WALL PLAN SEE SHEETS
  5. FOR LANDSCAPING PLANS AND TREE PROTECTION NOTES SEE SHEETS XX-XX

**LEGEND**

(Dashed line)	CONSTRUCTION LIMITS
(Shaded area)	PROPOSED ASPHALT PAVEMENT
(Dotted line)	SAWCUT
(Hatched area)	PAVEMENT REMOVED
(Line with cross-ticks)	FENCE MISC.: RAILING
(Thick solid line)	RETAINING WALL



**PLAN AND PROFILE - WW TO GG  
STA. 145+00.00 TO STA. 150+00.00**

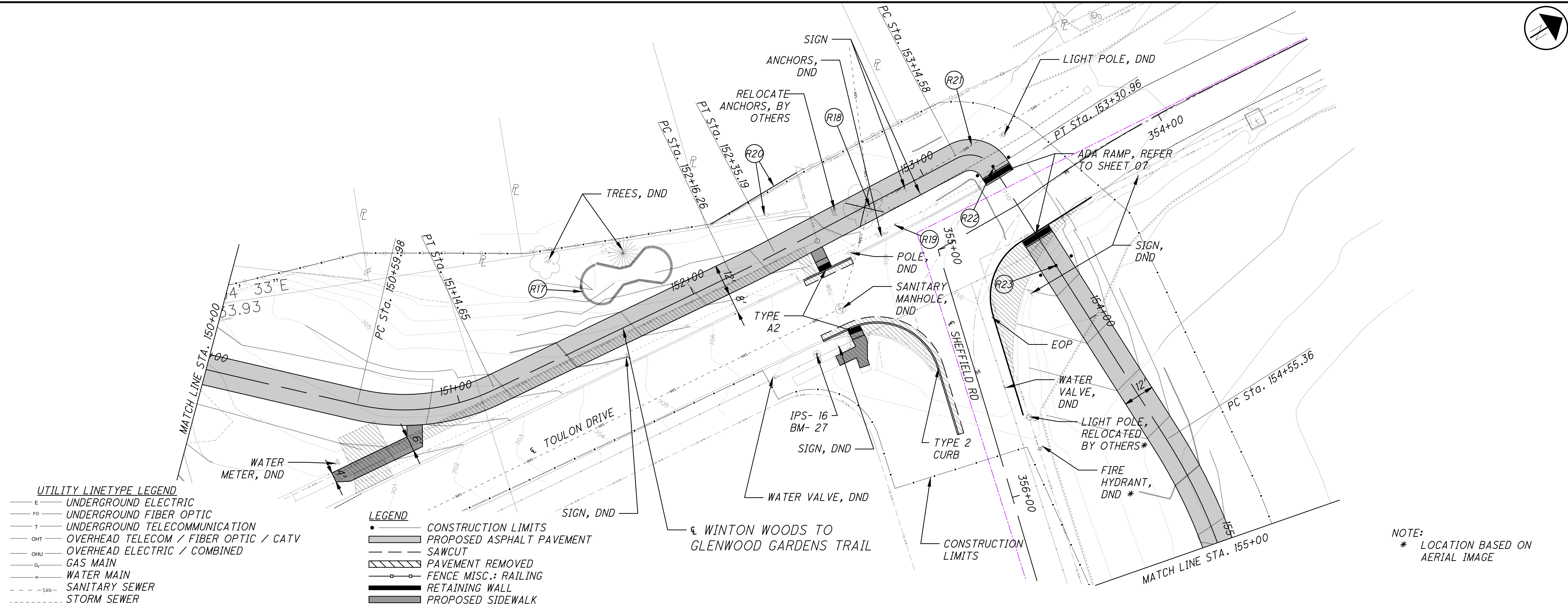
DESIGN AGENCY  
**KZFJ-SIGN**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.49
TOTAL	210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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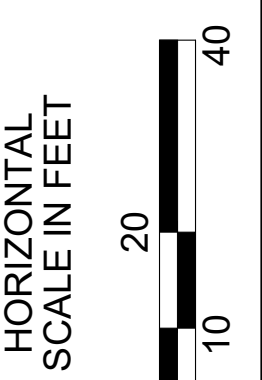
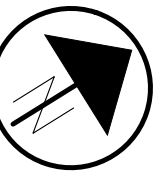
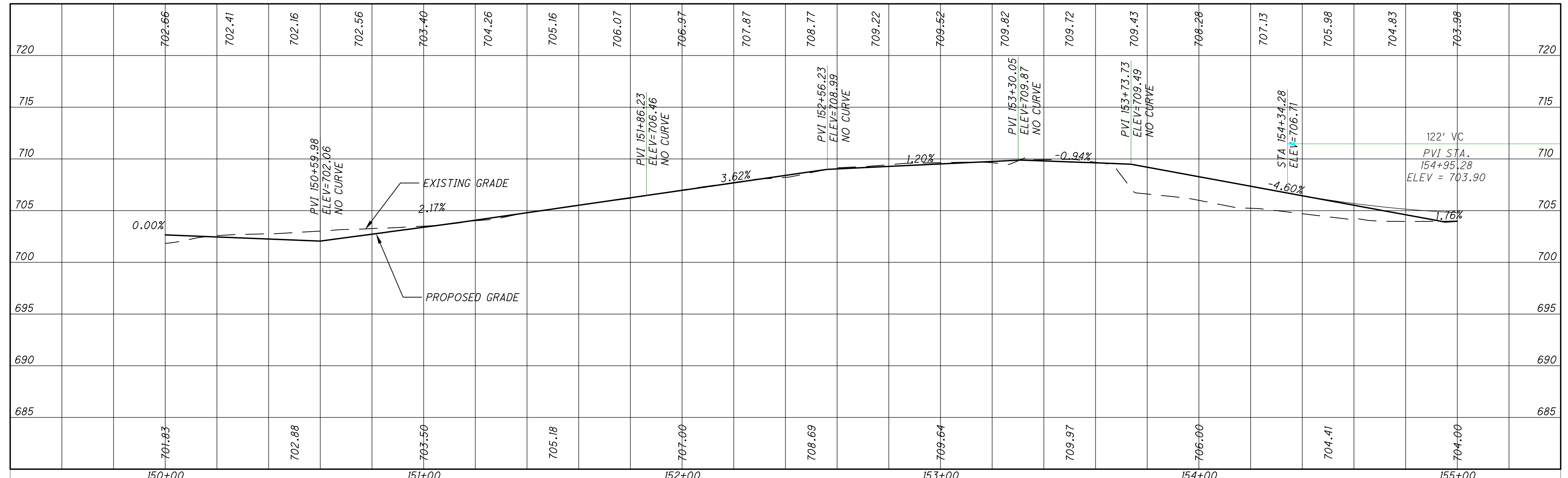
**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL
- PROPOSED SIDEWALK

NOTE:  
\* LOCATION BASED ON AERIAL IMAGE



PLAN AND PROFILE - WW TO GG  
STA. 150+00.00 TO STA. 155+00.00

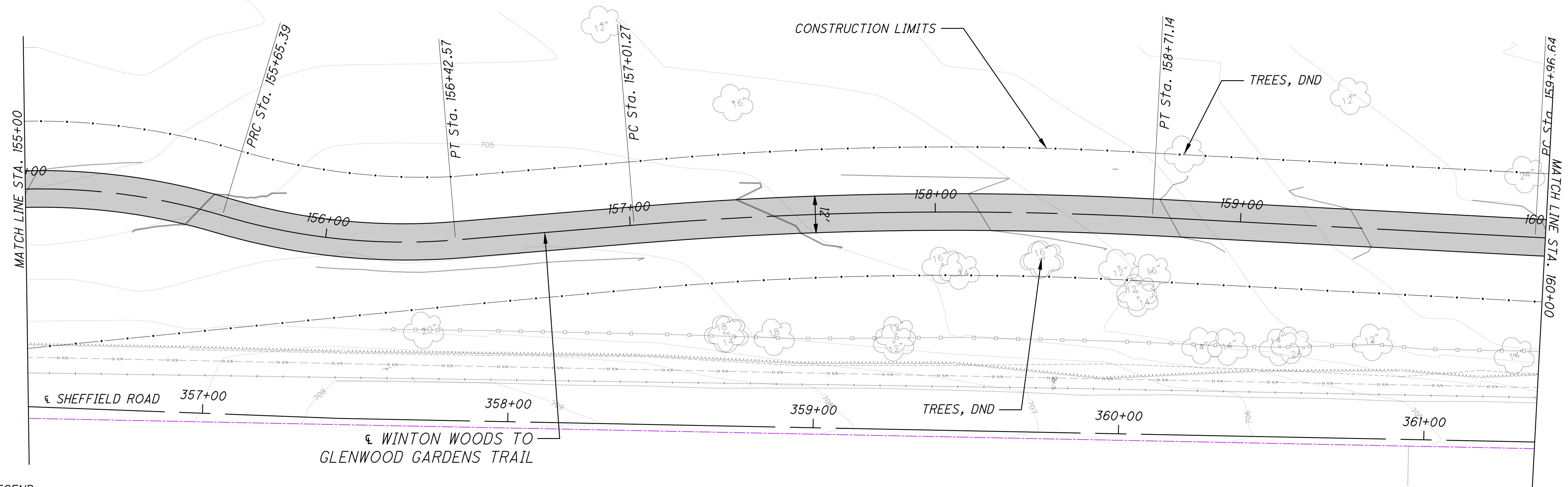
DESIGN AGENCY  
**KZFJ-SIGN**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.50
TOTAL	210



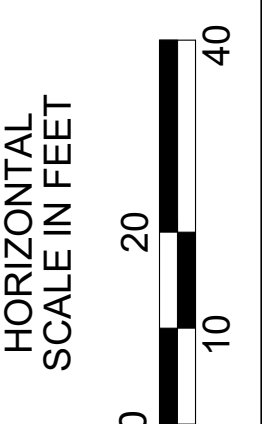
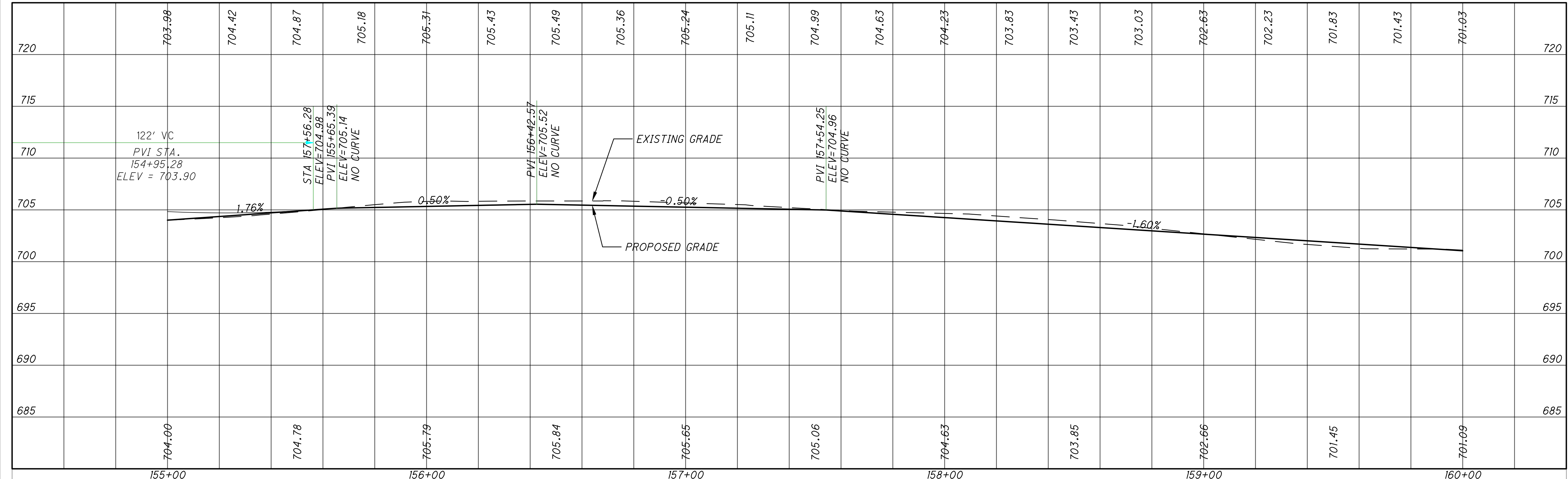
**HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL**

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- UTILITY LINETYPE LEGEND**
- E — UNDERGROUND ELECTRIC
  - FO — UNDERGROUND FIBER OPTIC
  - T — UNDERGROUND TELECOMMUNICATION
  - OHT — OVERHEAD TELECOM / FIBER OPTIC / CATV
  - OHU — OVERHEAD ELECTRIC / COMBINED
  - G — GAS MAIN
  - W — WATER MAIN
  - S — SANITARY SEWER
  - SS — STORM SEWER

- LEGEND**
- CONSTRUCTION LIMITS
  - ▨ PROPOSED ASPHALT PAVEMENT
  - ▨ SAWCUT
  - ▨ PAVEMENT REMOVED
  - FENCE MISC.: RAILING
  - RETAINING WALL



**PLAN AND PROFILE - WW TO GG**  
**STA. 155+00.00 TO STA. 160+00.00**

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 SCR

REVIEWER  
 SCR 3/29/2024

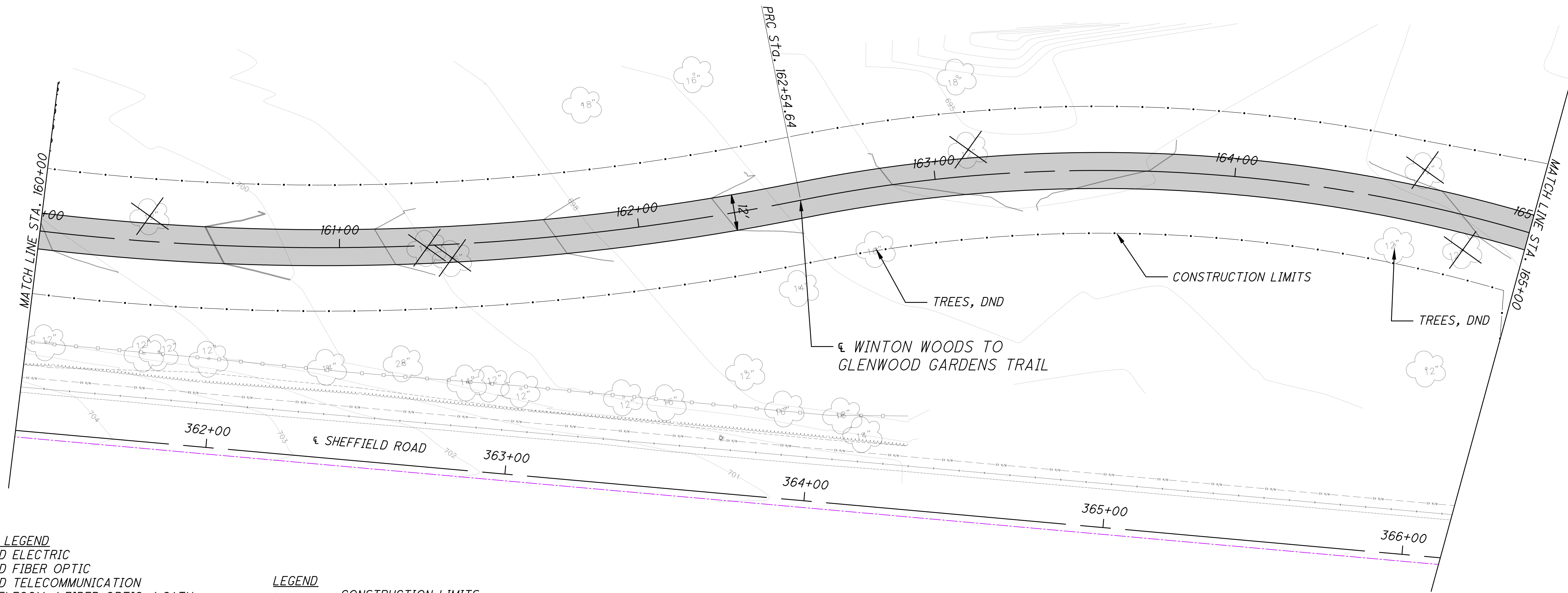
PROJECT ID  
 117016

SHEET TOTAL  
 P.51 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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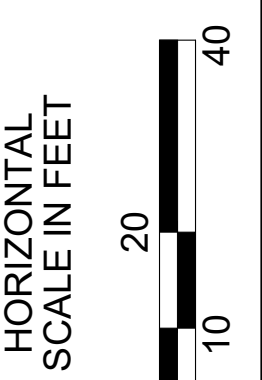
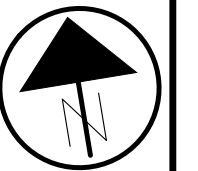
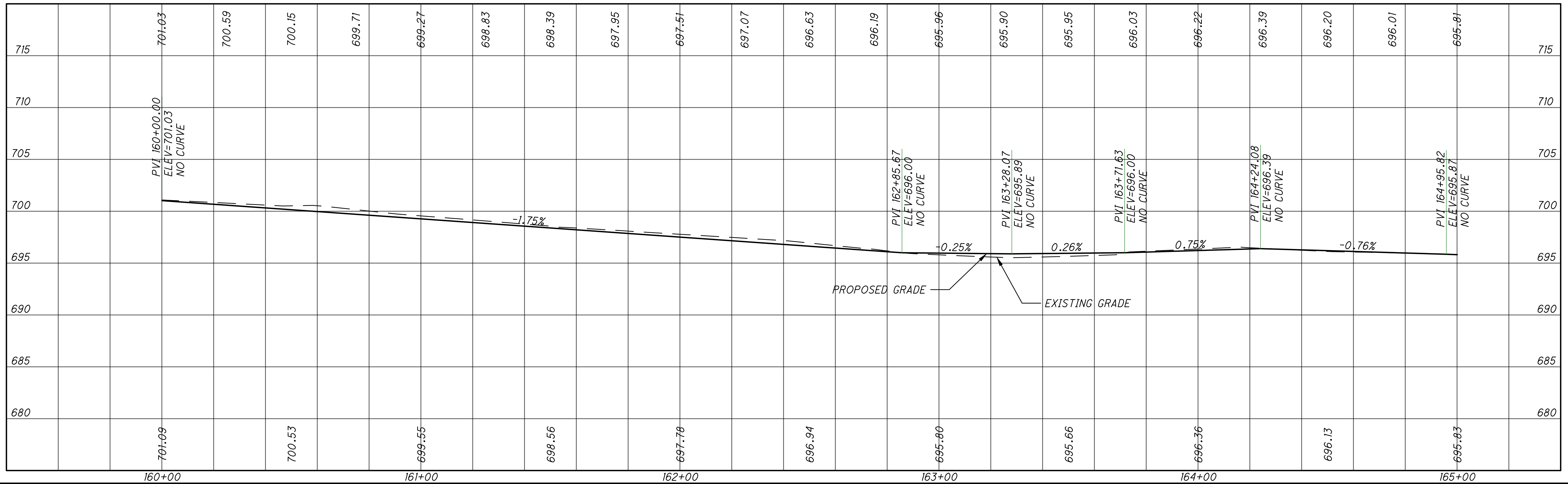


UTILITY LINETYPE LEGEND

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

LEGEND

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 160+00.00 TO STA. 165+00.00

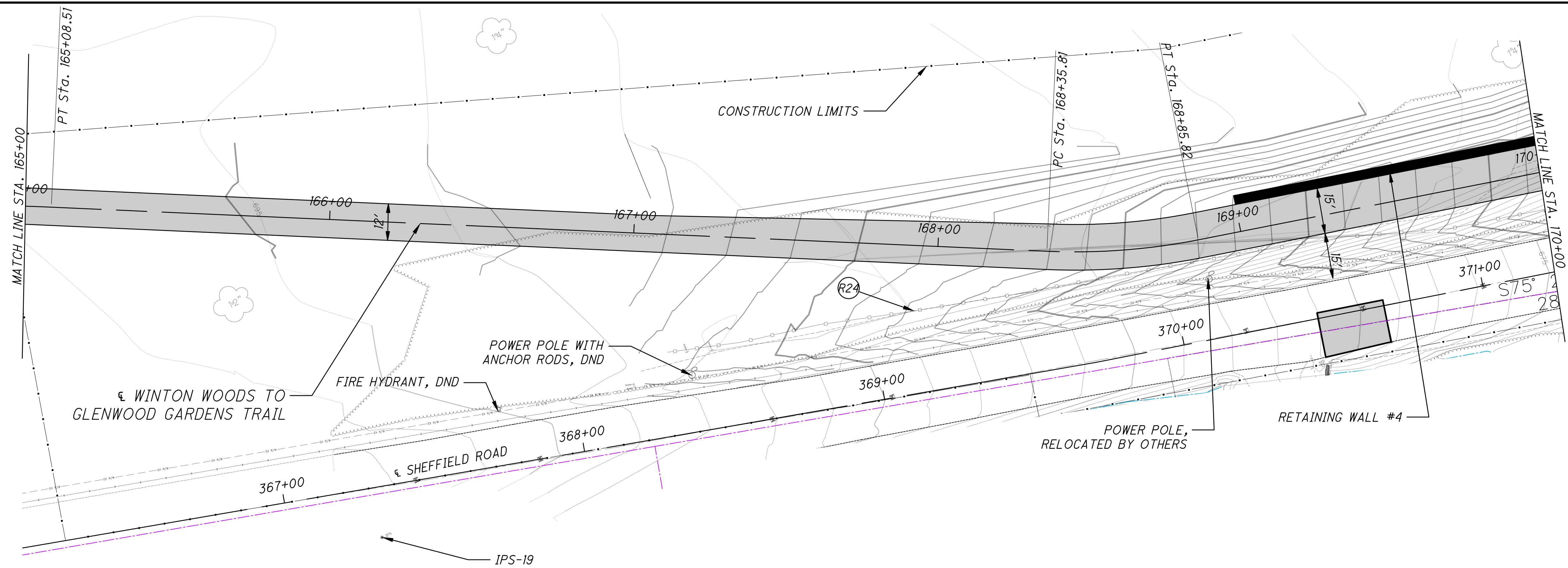
DESIGN AGENCY  
**KZFJ-SIG**  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.52 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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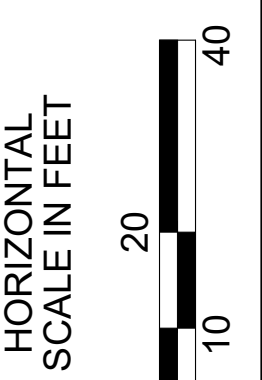
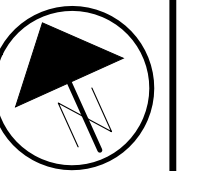
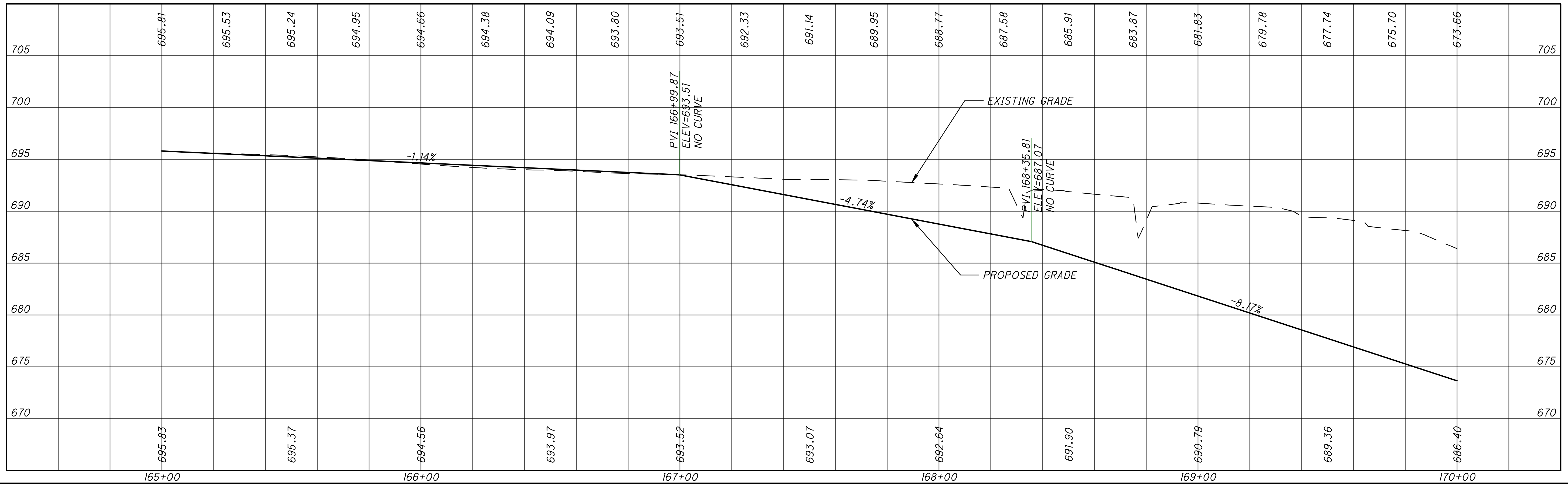


UTILITY LINETYPE LEGEND

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

LEGEND

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 165+00.00 TO STA. 170+00.00

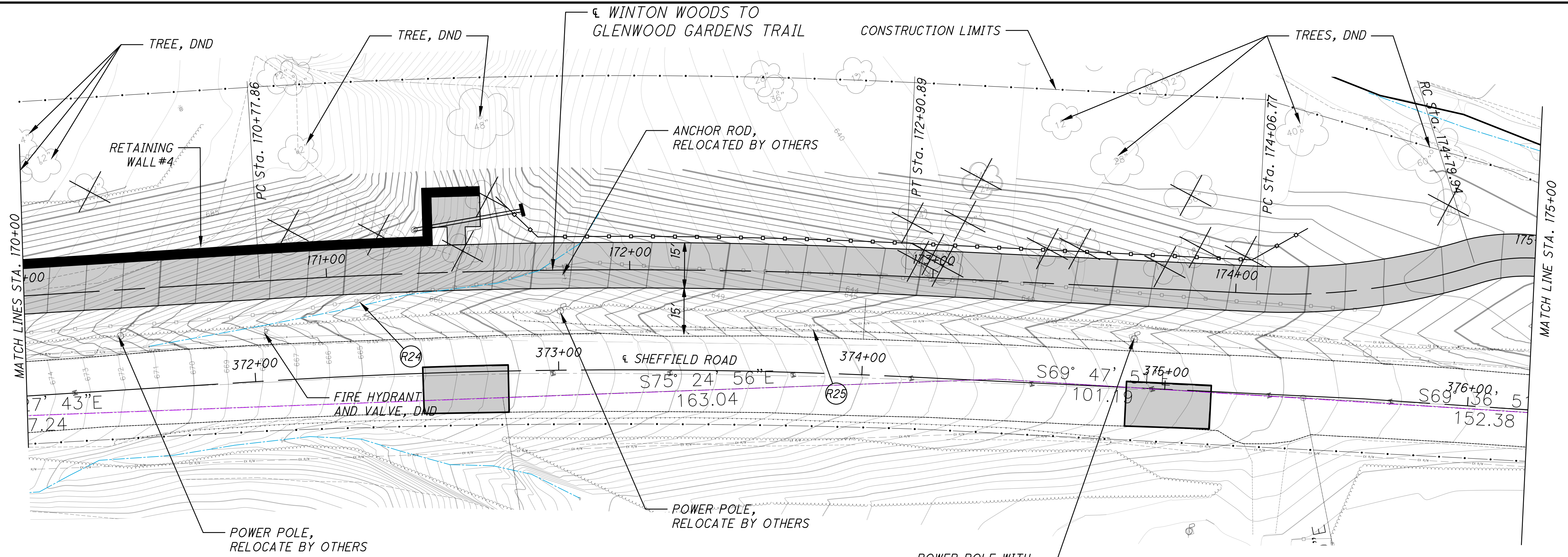
DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.53 210



**HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL**

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**UTILITY LINETYPE LEGEND**

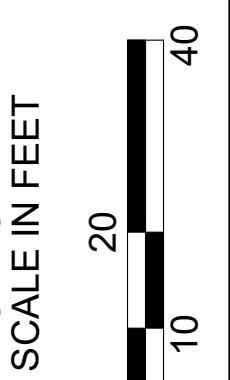
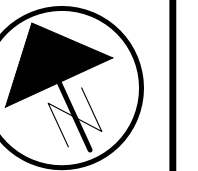
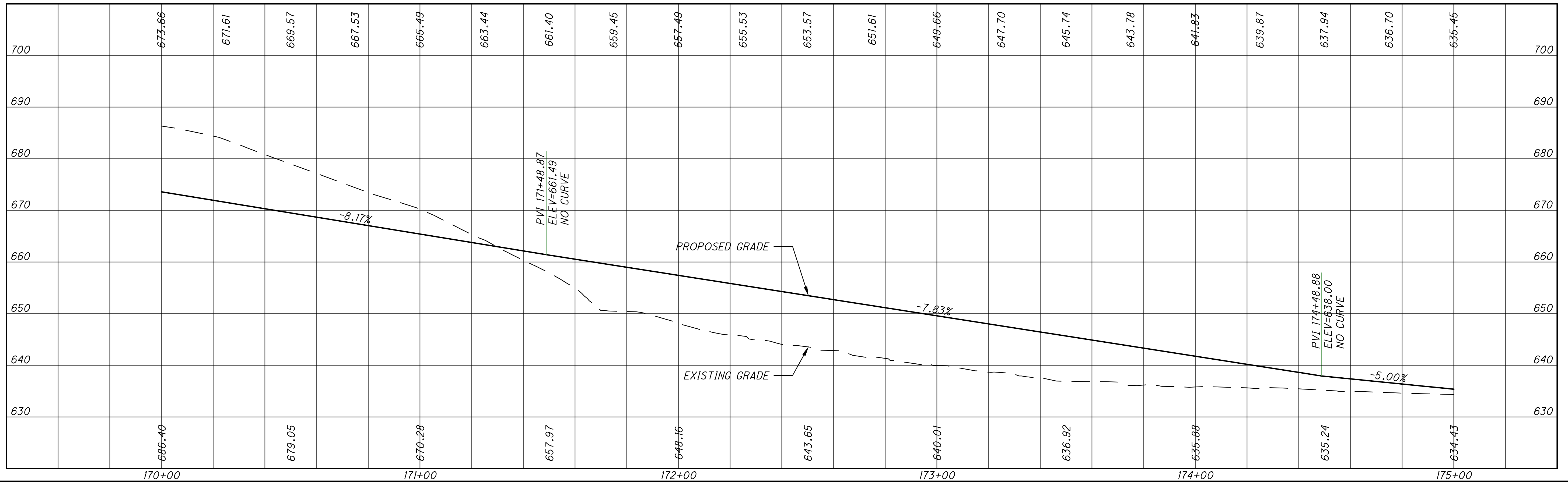
- E — UNDERGROUND ELECTRIC
- FO — UNDERGROUND FIBER OPTIC
- T — UNDERGROUND TELECOMMUNICATION
- OHT — OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHU — OVERHEAD ELECTRIC / COMBINED
- G — GAS MAIN
- W — WATER MAIN
- SAN — SANITARY SEWER
- S --- STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- ▨ PROPOSED ASPHALT PAVEMENT
- SAWCUT
- ▨ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- ▬ RETAINING WALL

**NOTES**

1. FOR TYPICAL SECTION SEE SHEET 06-13
2. FOR DRIVEWAY DETAILS SEE SHEETS 166
3. FOR INTERSECTION DETAILS SEE SHEET 165
4. FOR RETAINING WALL PLAN SEE SHEETS
5. FOR LANDSCAPING PLANS AND TREE PROTECTION NOTES SEE SHEETS XX-XX



**PLAN AND PROFILE - WW TO GG  
STA. 170+00.00 TO STA. 175+00.00**

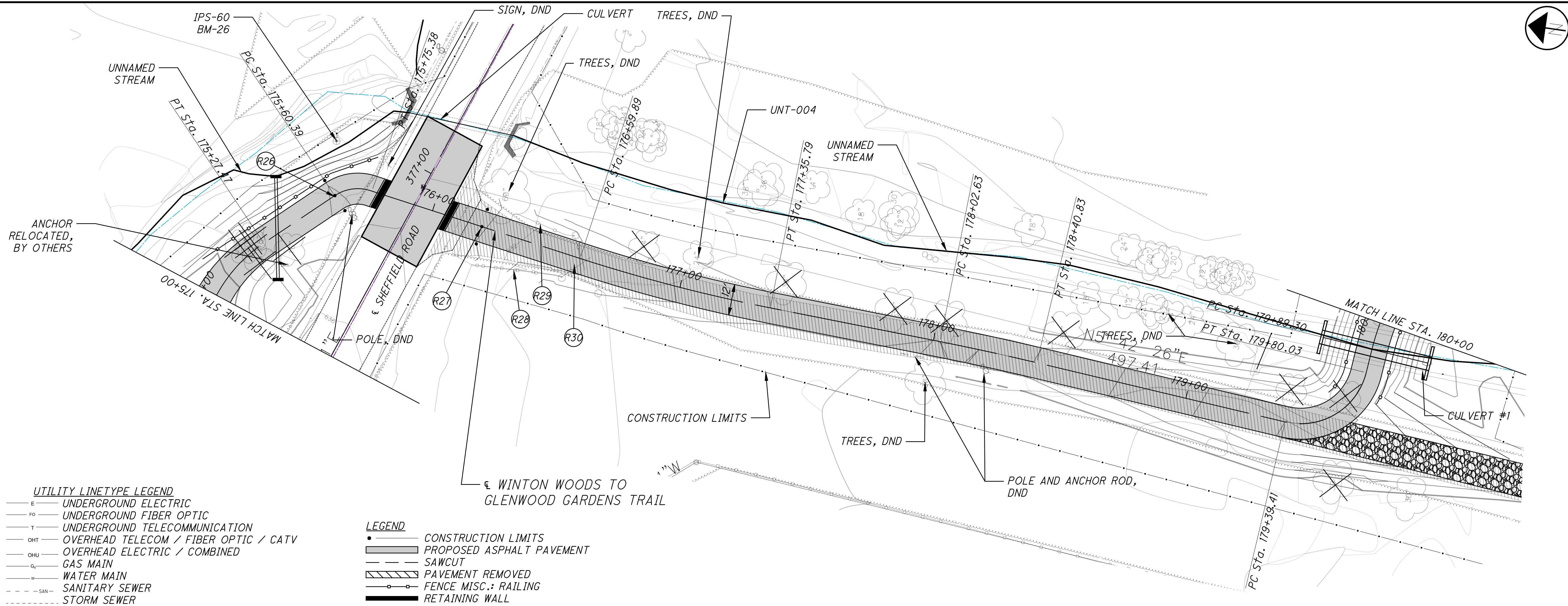
DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.54 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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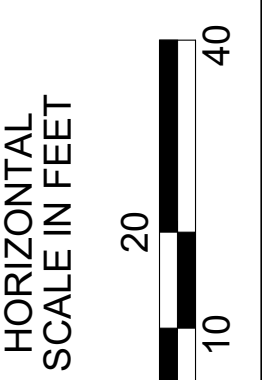
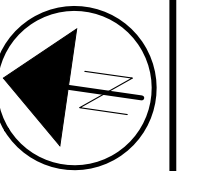
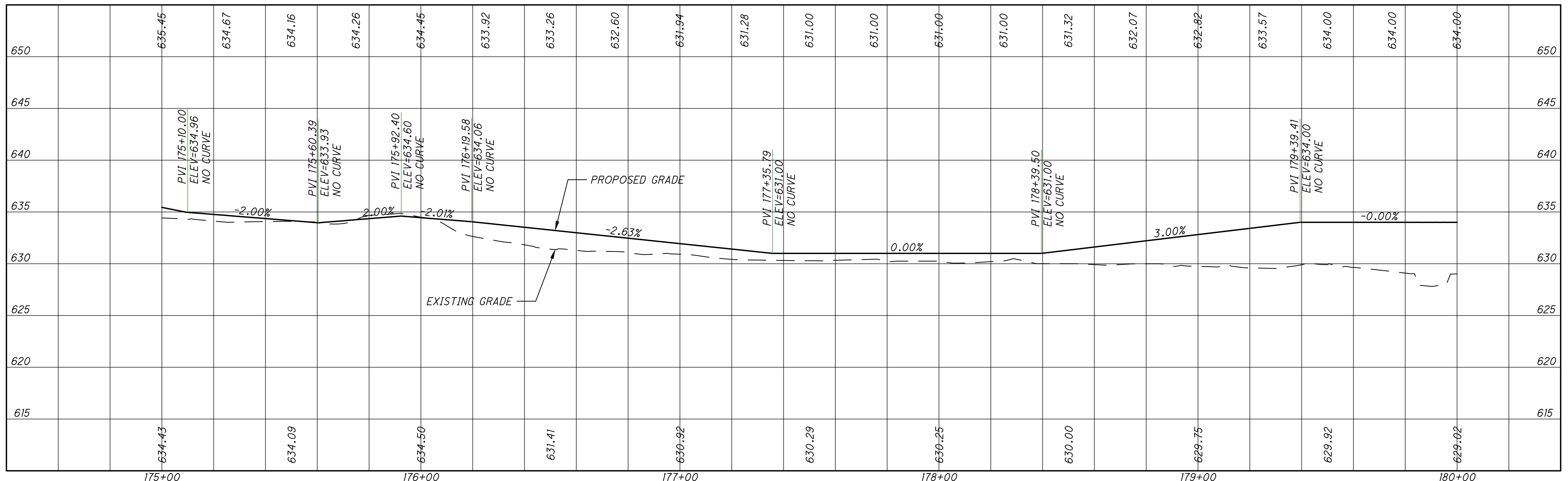


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 175+00.00 TO STA. 180+00.00

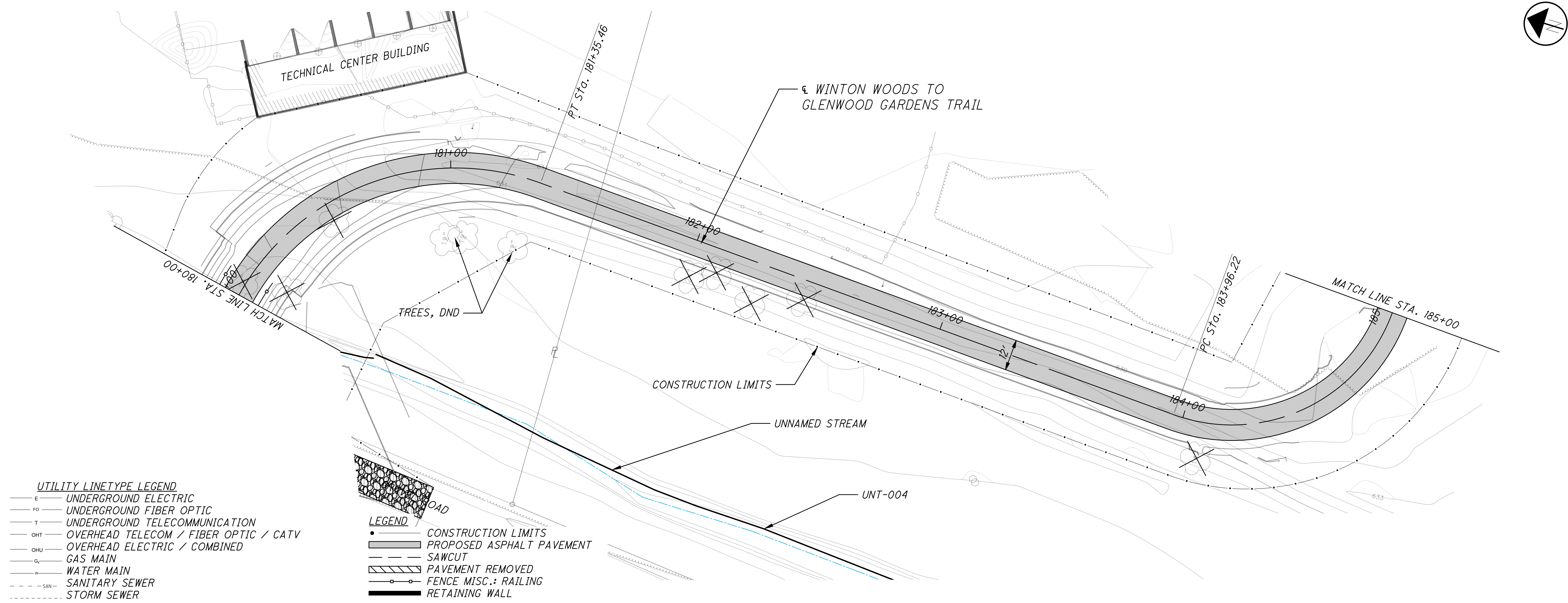
DESIGN AGENCY  
**KZFJ-SIG**  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.55
TOTAL	210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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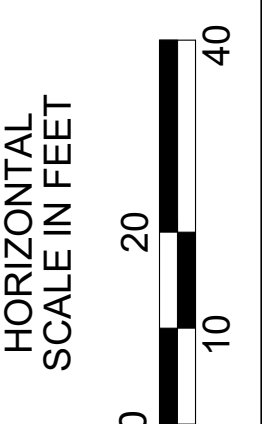
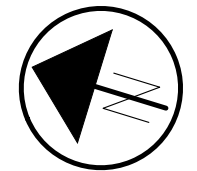
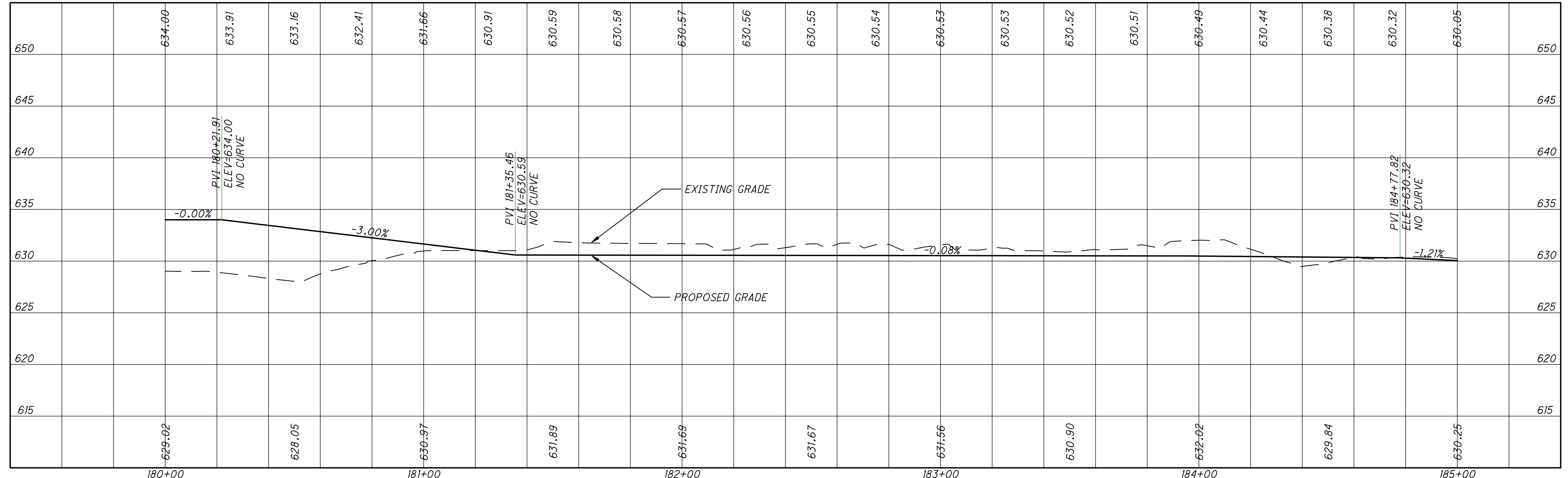


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 180+00.00 TO STA. 185+00.00

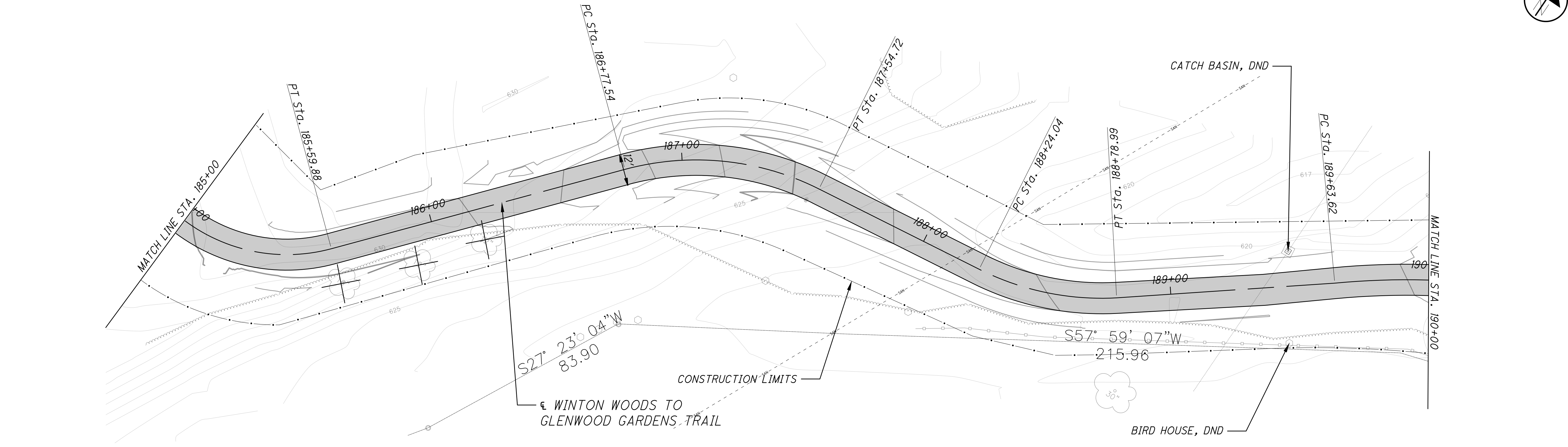
DESIGN AGENCY  
**KZFJ-SIG**  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.56
TOTAL	210



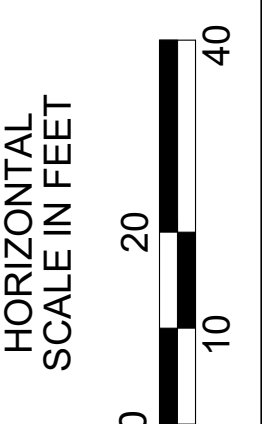
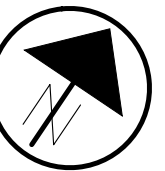
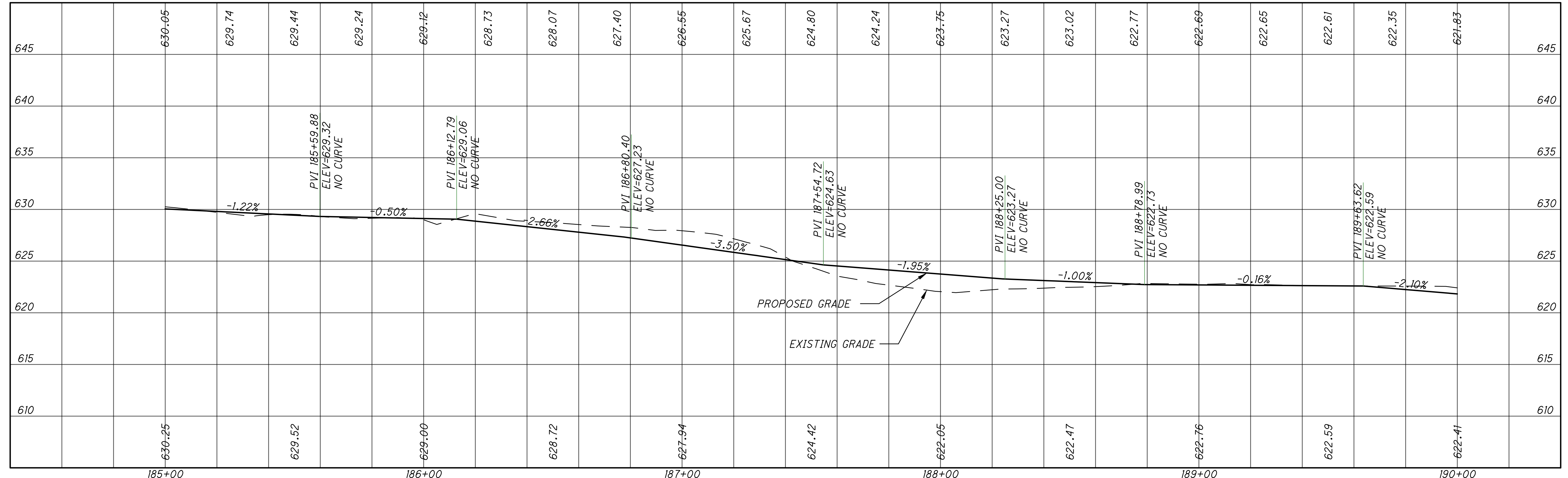
HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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- UTILITY LINETYPE LEGEND**
- E — UNDERGROUND ELECTRIC
  - FO — UNDERGROUND FIBER OPTIC
  - T — UNDERGROUND TELECOMMUNICATION
  - OHT — OVERHEAD TELECOM / FIBER OPTIC / CATV
  - OHU — OVERHEAD ELECTRIC / COMBINED
  - G — GAS MAIN
  - W — WATER MAIN
  - SAN — SANITARY SEWER
  - SS — STORM SEWER

- LEGEND**
- CONSTRUCTION LIMITS
  - PROPOSED ASPHALT PAVEMENT
  - SAWCUT
  - PAVEMENT REMOVED
  - FENCE MISC.: RAILING
  - RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 185+00.00 TO STA. 190+00.00

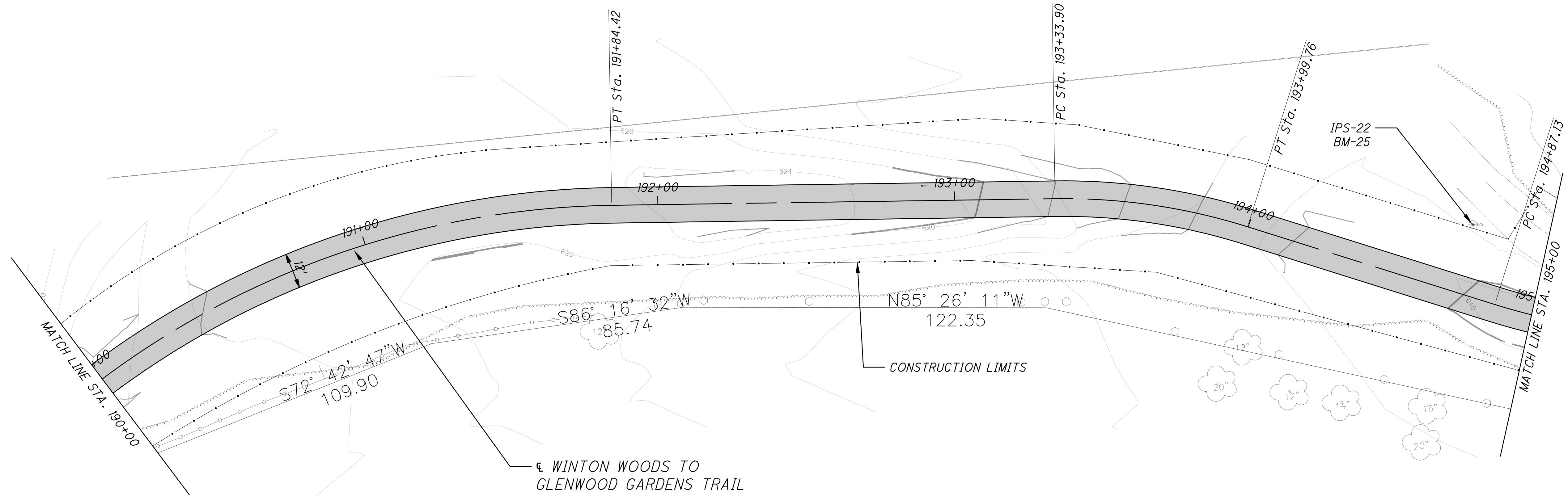
DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.57 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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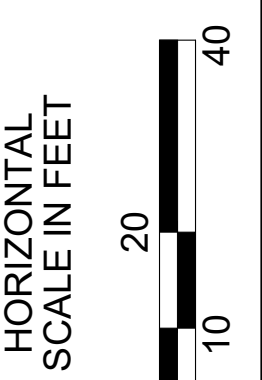
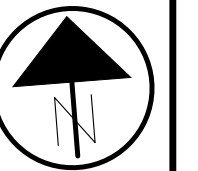
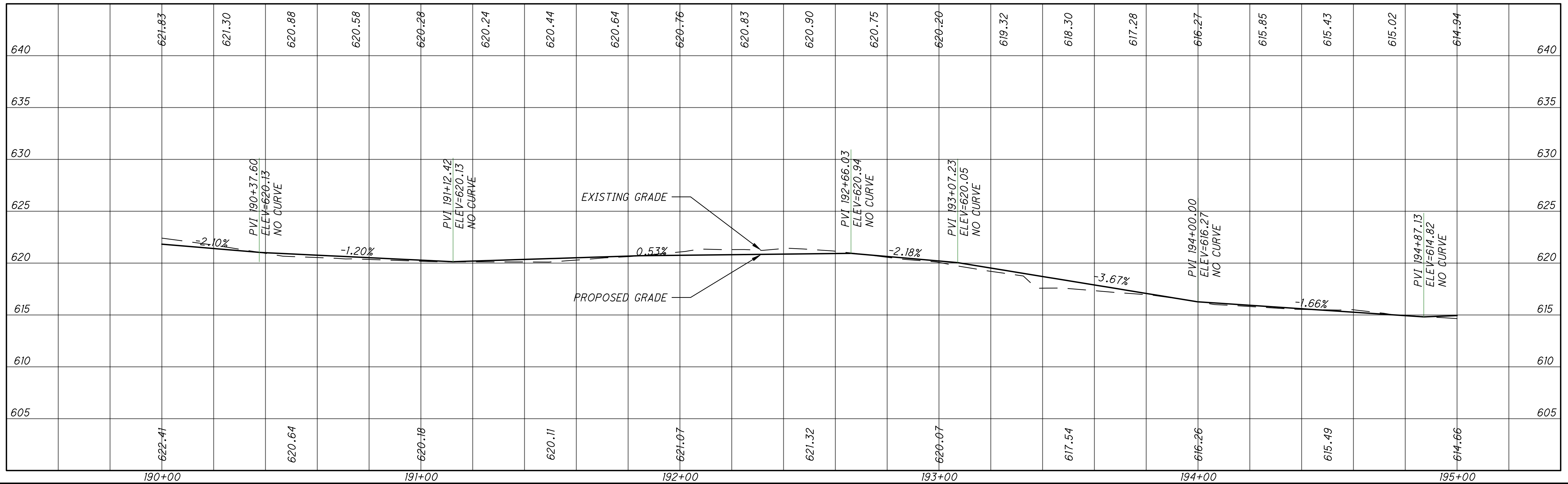


UTILITY LINETYPE LEGEND

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

LEGEND

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 190+00.00 TO STA. 195+00.00

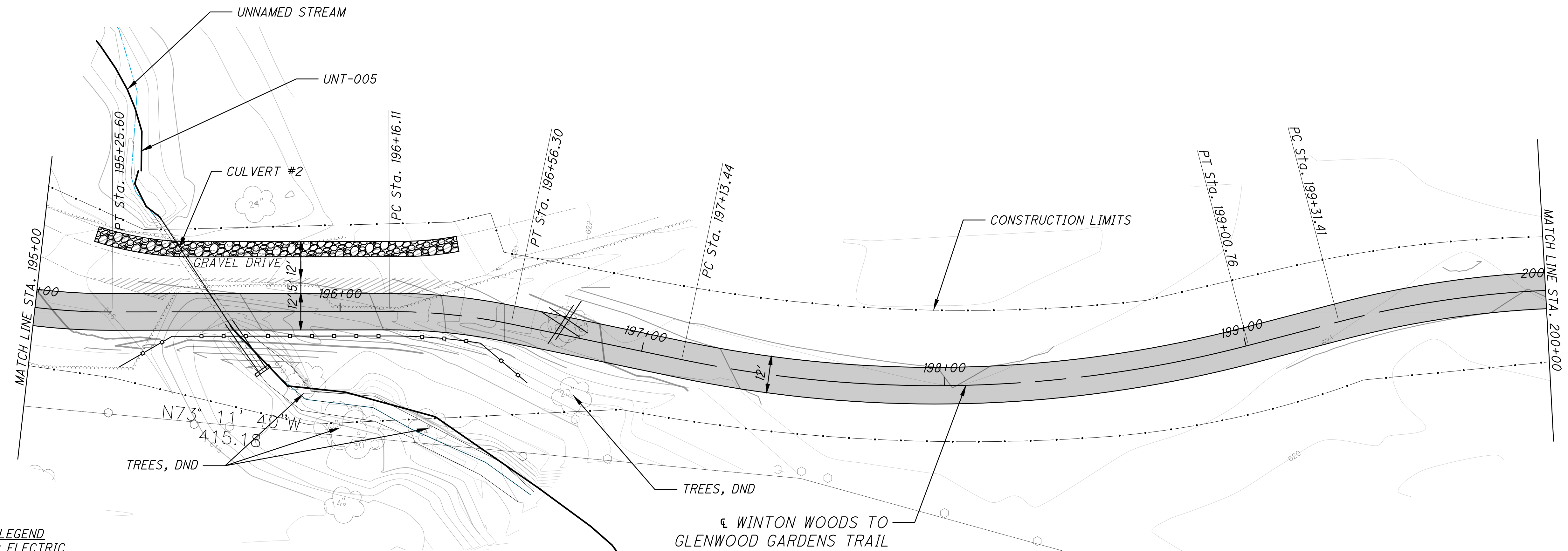
DESIGN AGENCY  
**KZFJ-SIG**  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.58
TOTAL	210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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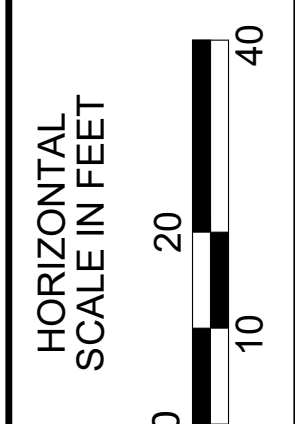
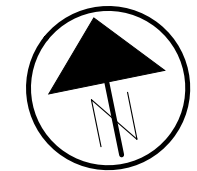
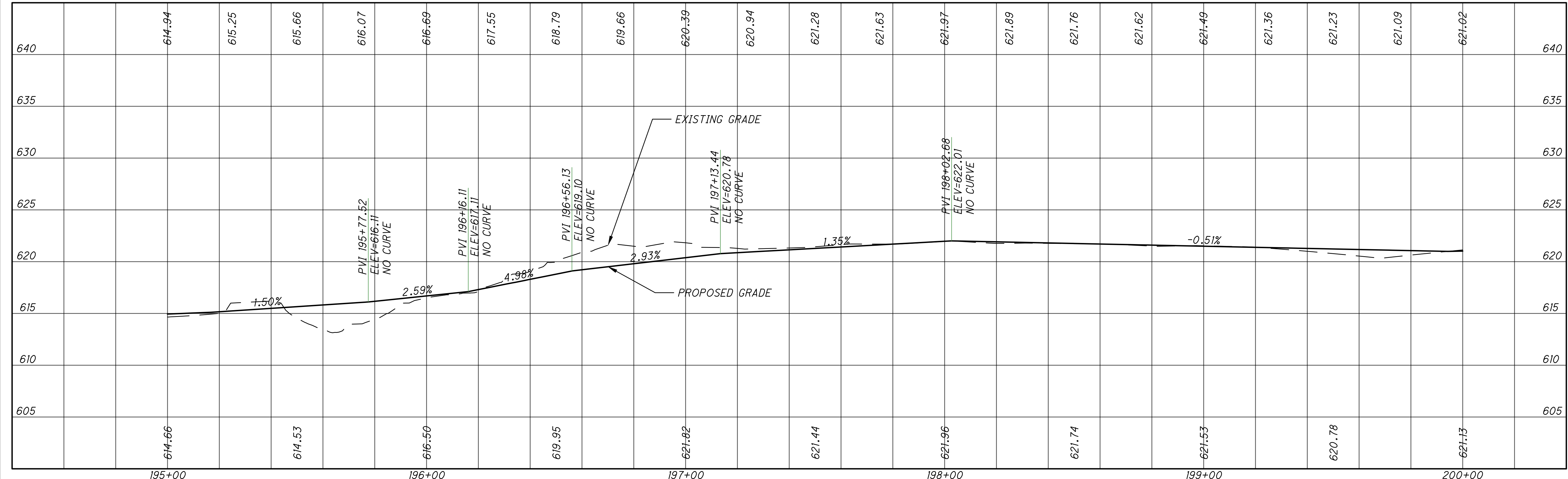


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL
- GRAVEL PAVEMENT



PLAN AND PROFILE - WW TO GG  
STA. 195+00.00 TO STA. 200+00.00

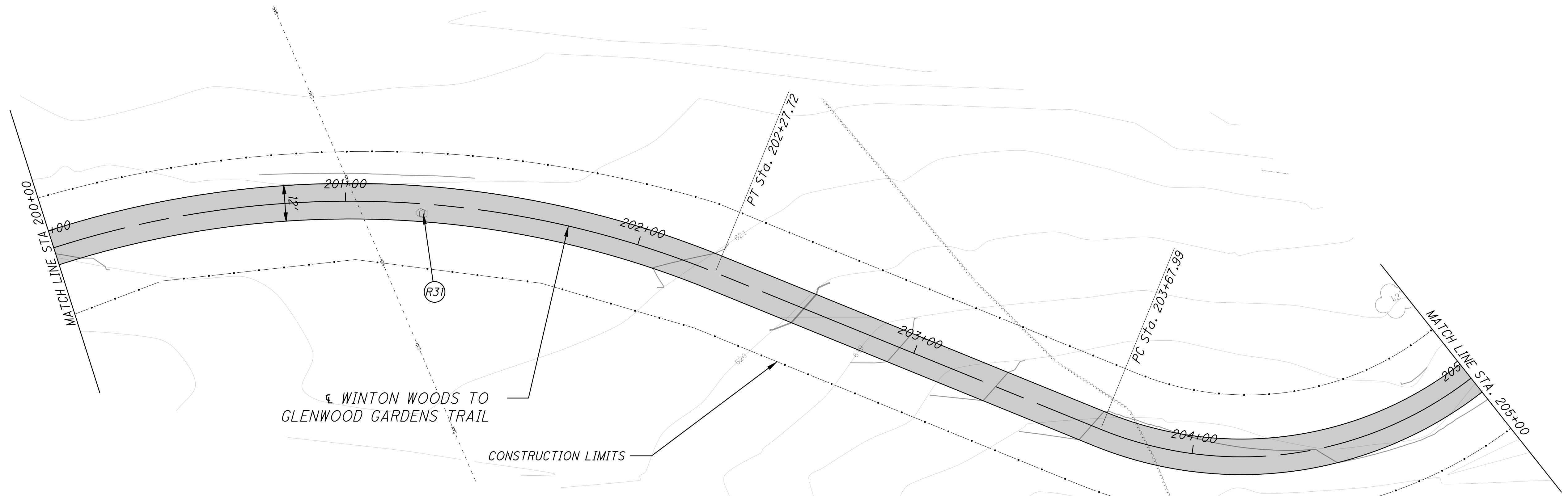
DESIGN AGENCY  
**KZFJ-SIG**  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.59
TOTAL	210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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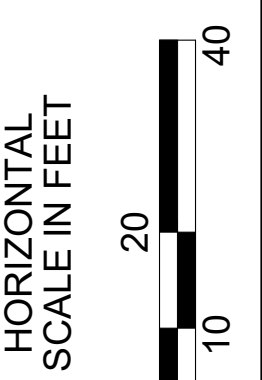
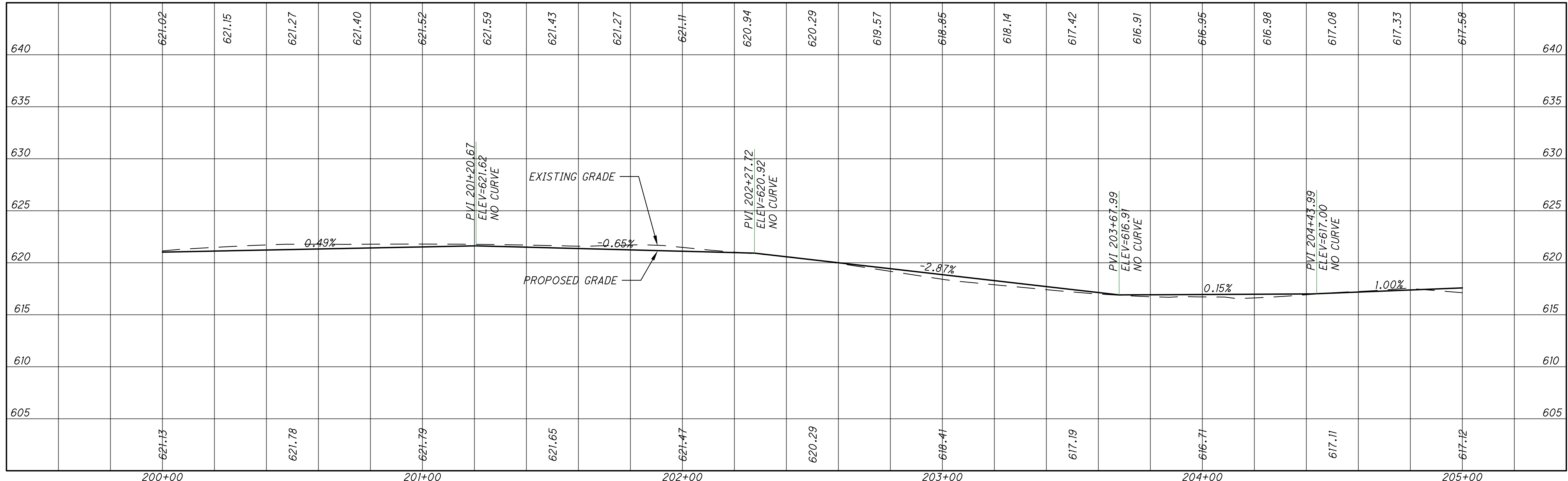


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- ▬ PROPOSED ASPHALT PAVEMENT
- SAWCUT
- ▨ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- ▬ RETAINING WALL



PLAN AND PROFILE - WW TO GG  
STA. 200+00.00 TO STA. 205+00.00

DESIGN AGENCY  
**KZFJ-SIG**  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

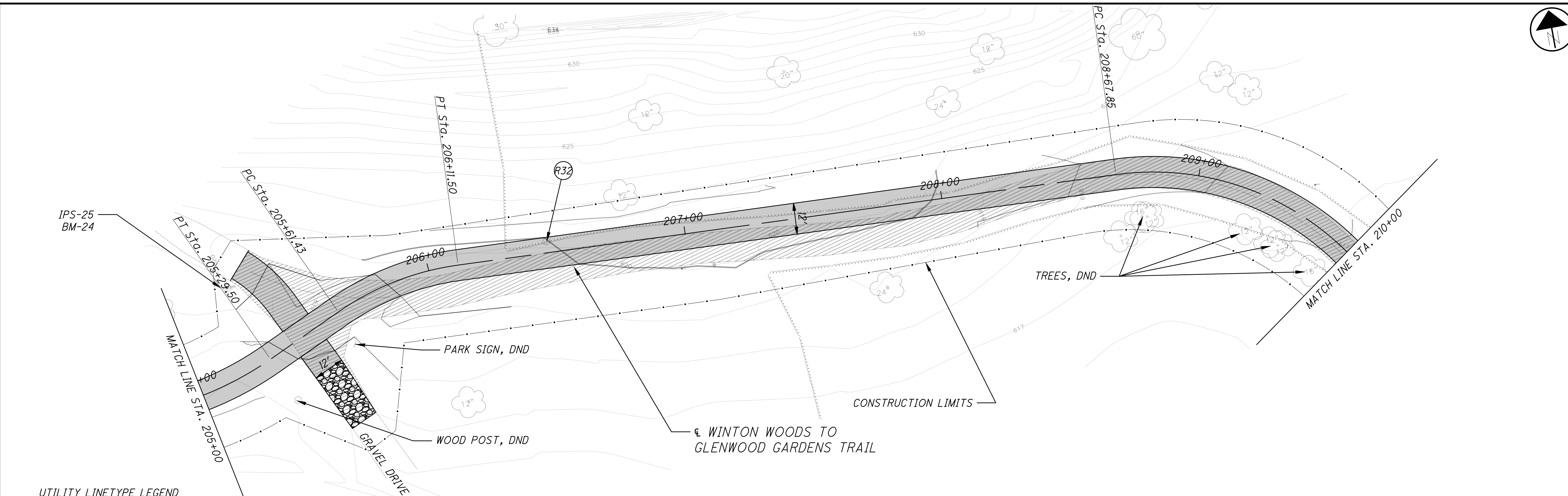
PROJECT ID  
117016

SHEET TOTAL  
P.60 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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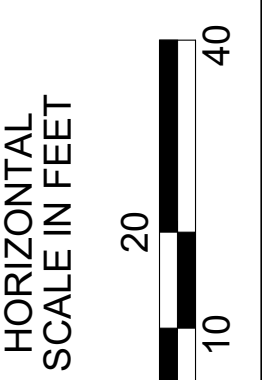
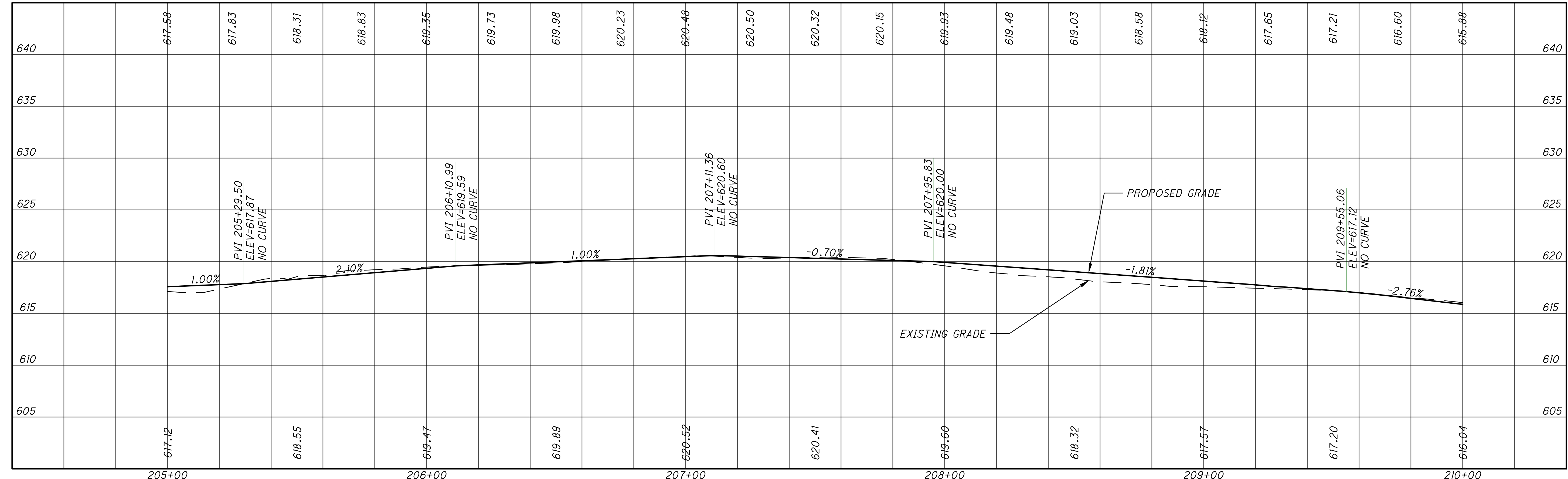
**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL
- GRAVEL PAVEMENT

- NOTES**
1. FOR TYPICAL SECTION SEE SHEET 06-13
  2. FOR DRIVEWAY DETAILS SEE SHEETS 166
  3. FOR INTERSECTION DETAILS SEE SHEET 165
  4. FOR RETAINING WALL PLAN SEE SHEETS
  5. FOR LANDSCAPING PLANS AND TREE PROTECTION NOTES SEE SHEETS XX-XX



PLAN AND PROFILE - WW TO GG  
STA. 205+00.00 TO STA. 210+00.00

DESIGN AGENCY  
**KZFJ-SIGN**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR

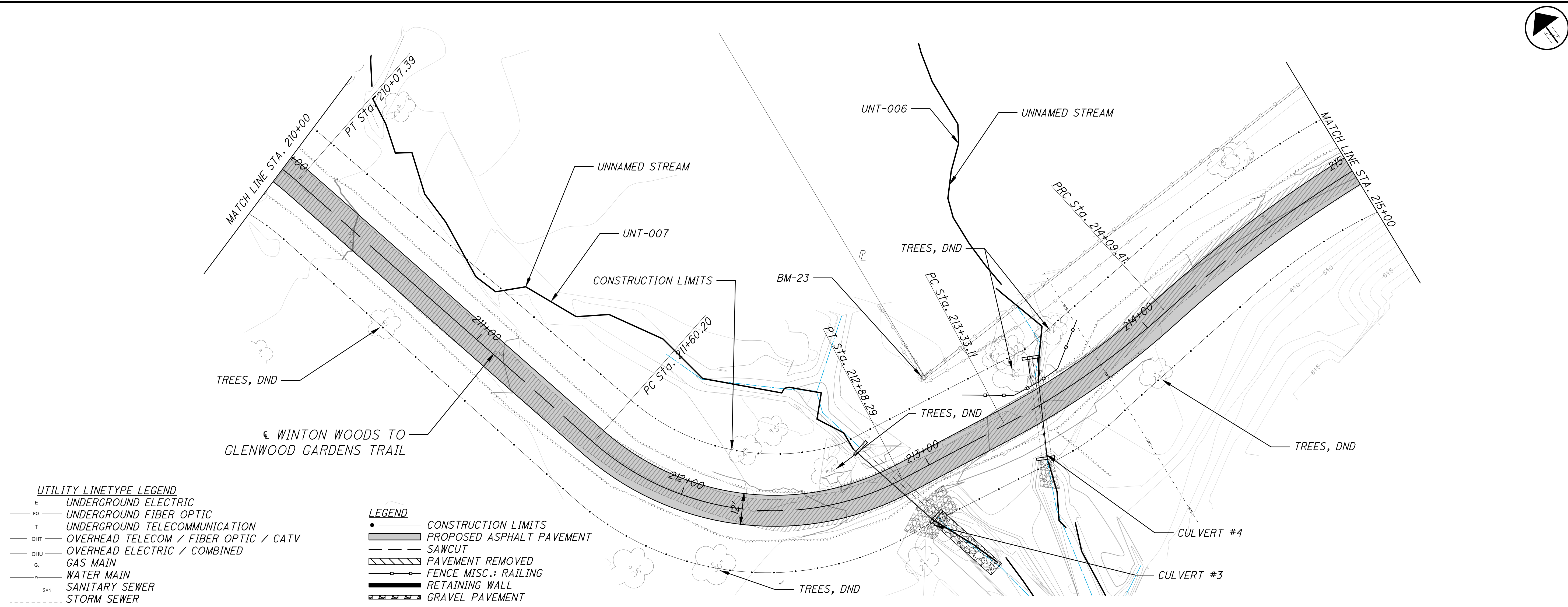
PROJECT ID  
117016

SHEET TOTAL  
P.61 210



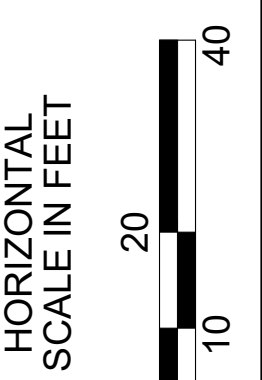
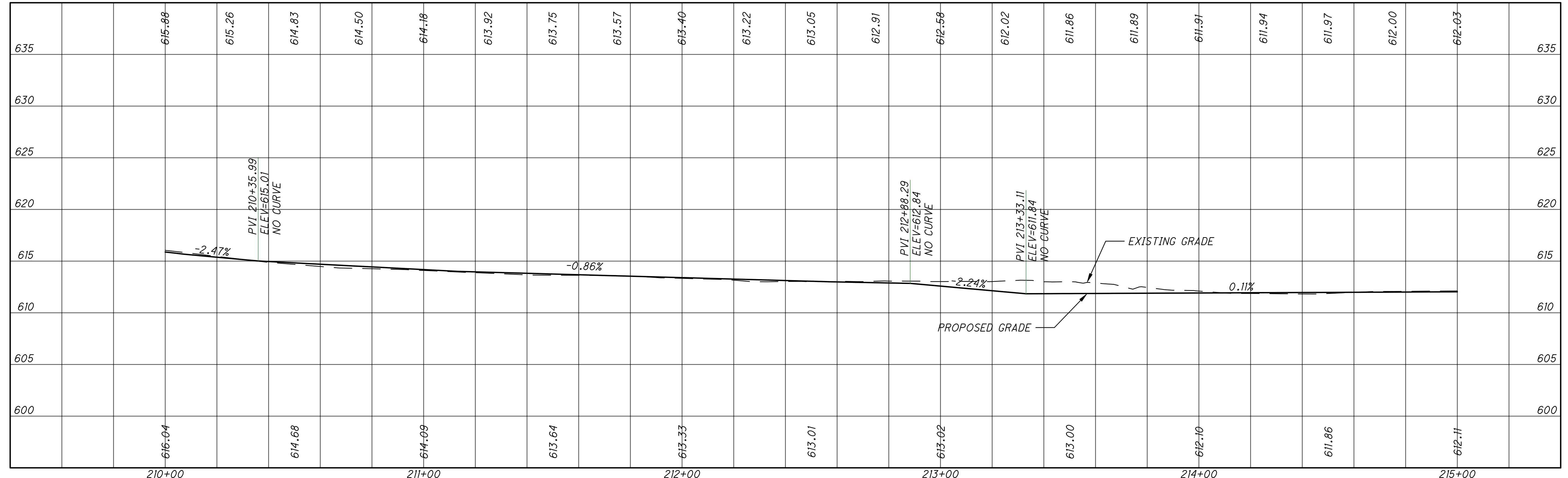
HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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- UTILITY LINETYPE LEGEND**
- E UNDERGROUND ELECTRIC
  - FO UNDERGROUND FIBER OPTIC
  - T UNDERGROUND TELECOMMUNICATION
  - OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
  - OHE OVERHEAD ELECTRIC / COMBINED
  - G GAS MAIN
  - W WATER MAIN
  - SAN SANITARY SEWER
  - SS STORM SEWER

- LEGEND**
- CONSTRUCTION LIMITS
  - PROPOSED ASPHALT PAVEMENT
  - SAWCUT
  - PAVEMENT REMOVED
  - FENCE MISC.: RAILING
  - RETAINING WALL
  - GRAVEL PAVEMENT



PLAN AND PROFILE - WW TO GG  
STA. 210+00.00 TO STA. 215+00.00

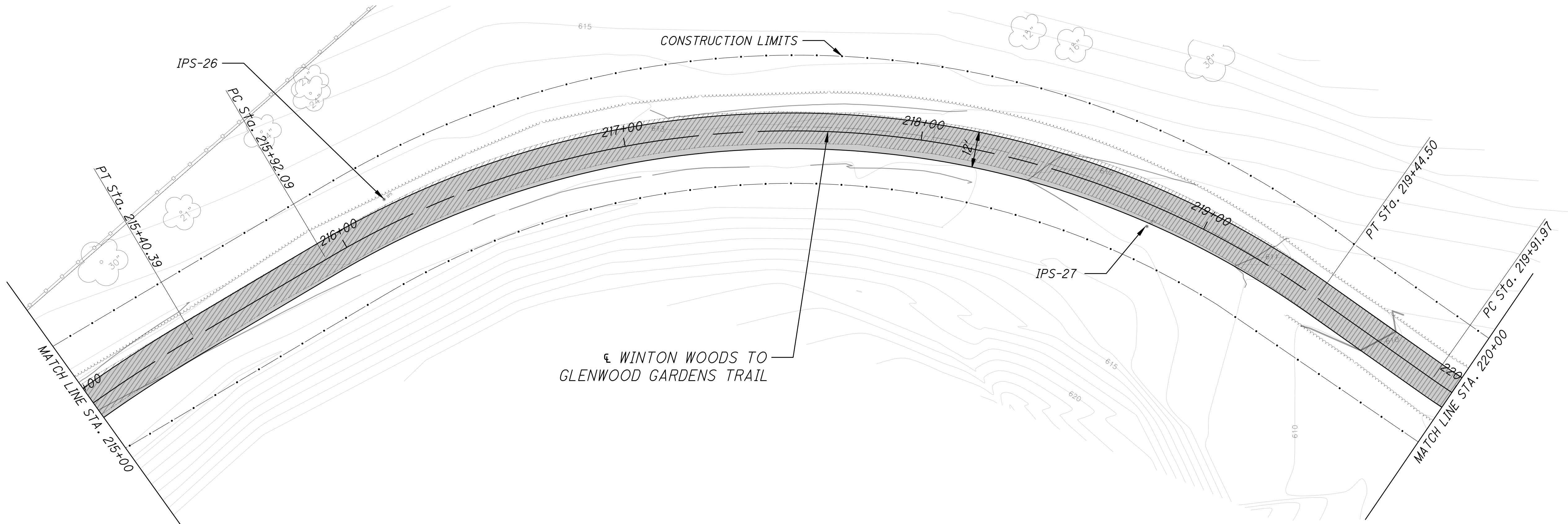
DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.62 210

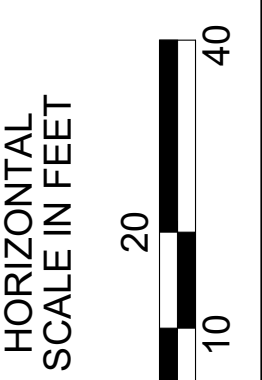
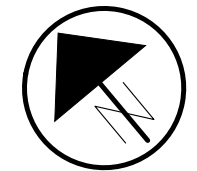


HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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€ WINTON WOODS TO GLENWOOD GARDENS TRAIL

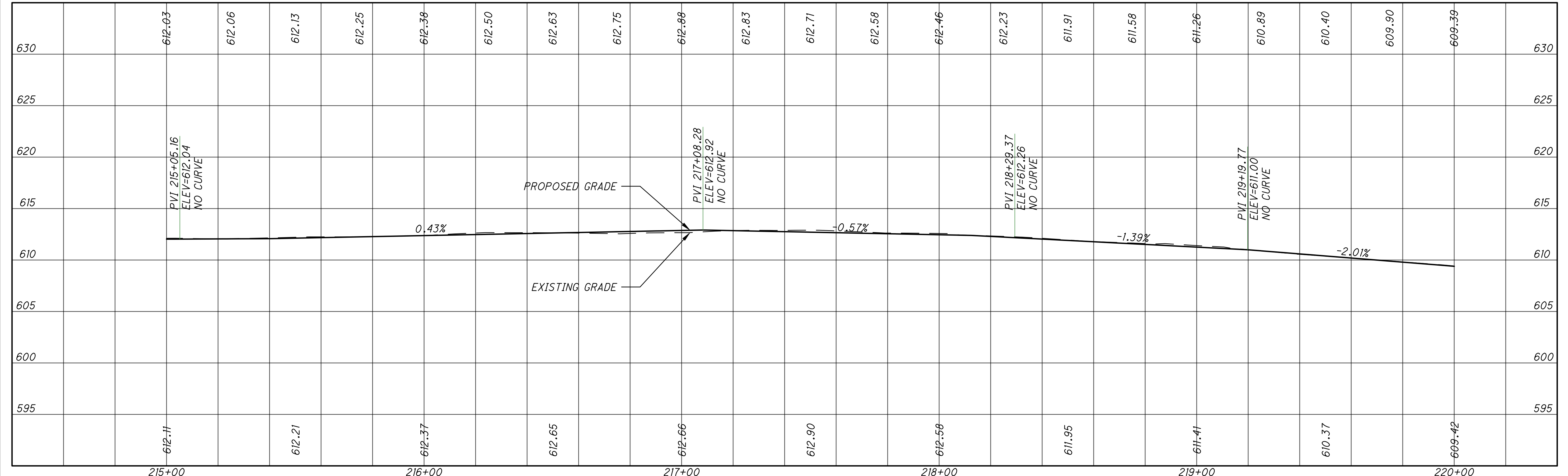


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- ▨ PROPOSED ASPHALT PAVEMENT
- - - SAWCUT
- ▨ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- █ RETAINING WALL
- ▨ GRAVEL PAVEMENT



PLAN AND PROFILE - WW TO GG  
STA. 215+00.00 TO STA. 220+00.00

DESIGN AGENCY

**KZFJ-SIG**  
Designing Better Futures

700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

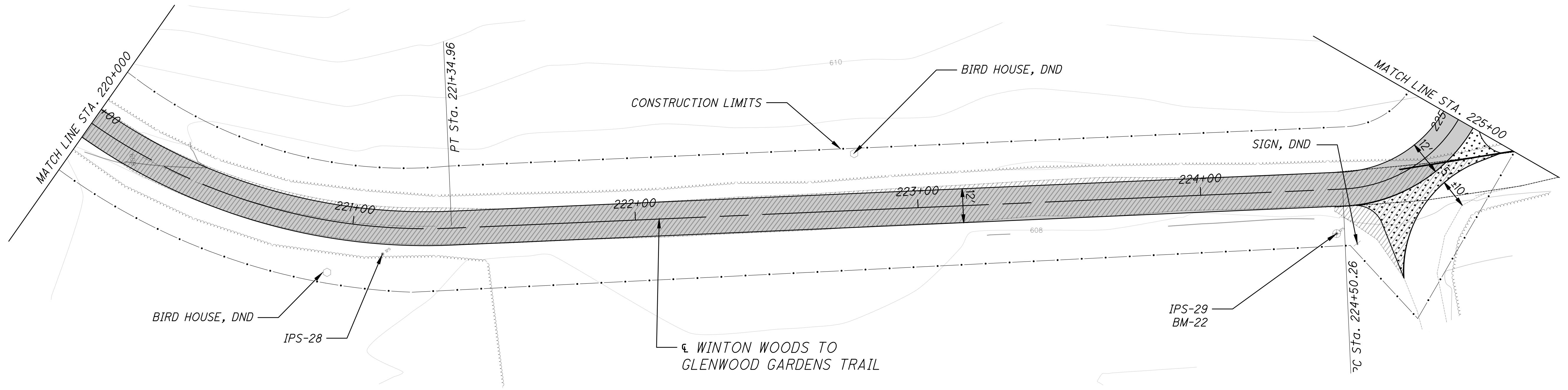
PROJECT ID  
117016

SHEET TOTAL  
P.63 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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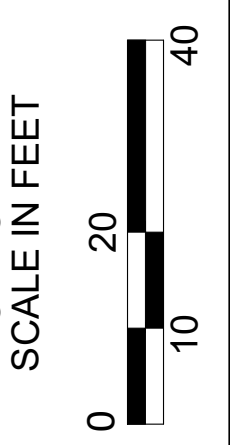
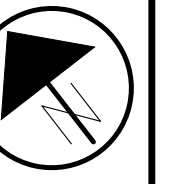
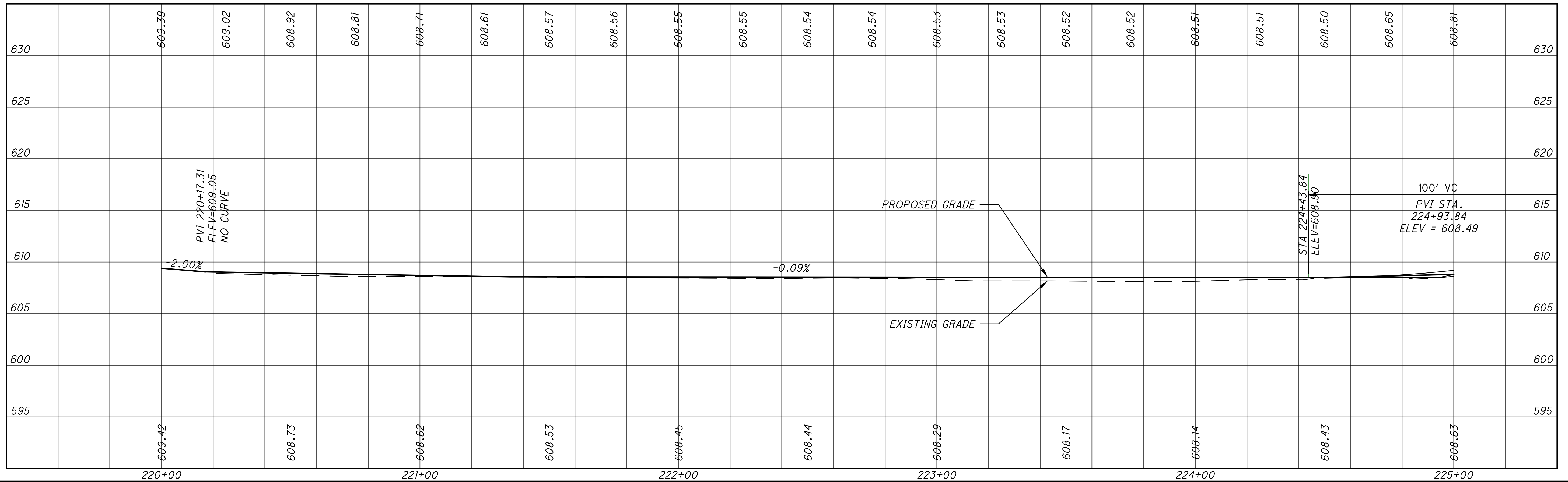


UTILITY LINETYPE LEGEND

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

LEGEND

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL
- TIED CONCRETE BLOCK MAT, TYPE 2
- GRAVEL PAVEMENT



PLAN AND PROFILE - WW TO GG  
STA. 220+00.00 TO STA. 225+00.00

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

SCR

REVIEWER

SCR 3/29/2024

PROJECT ID

117016

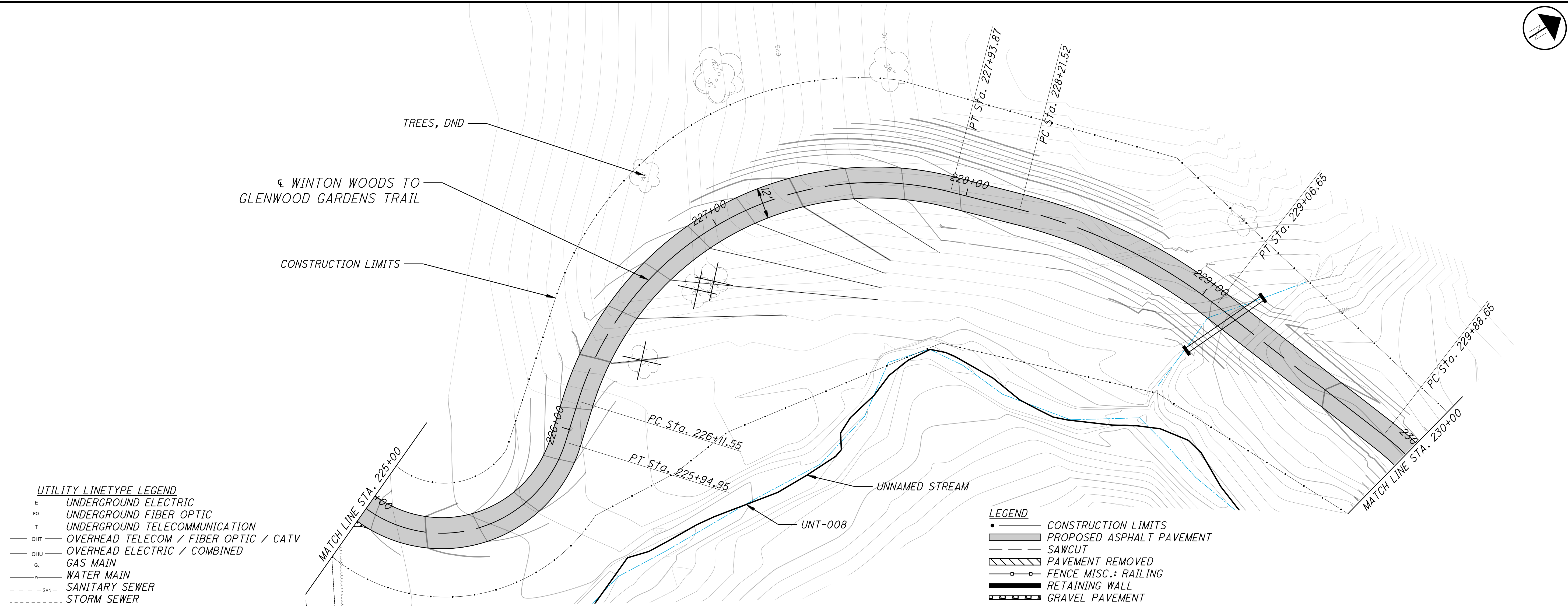
SHEET TOTAL

P.64 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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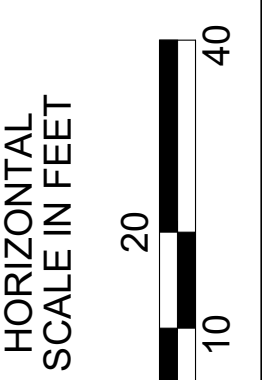
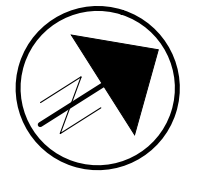
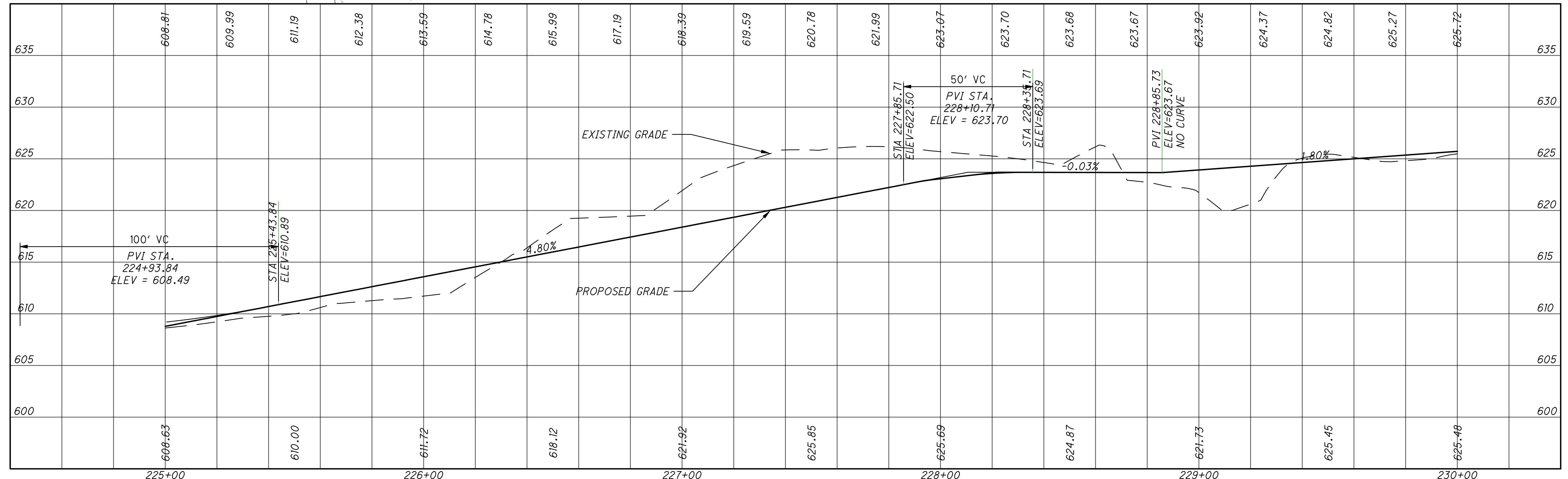


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- ▬ PROPOSED ASPHALT PAVEMENT
- - - SAWCUT
- ▨ PAVEMENT REMOVED
- FENCE MISC.: RAILING
- ▬ RETAINING WALL
- ▨ GRAVEL PAVEMENT



PLAN AND PROFILE - WW TO GG  
STA. 225+00.00 TO STA. 230+00.00

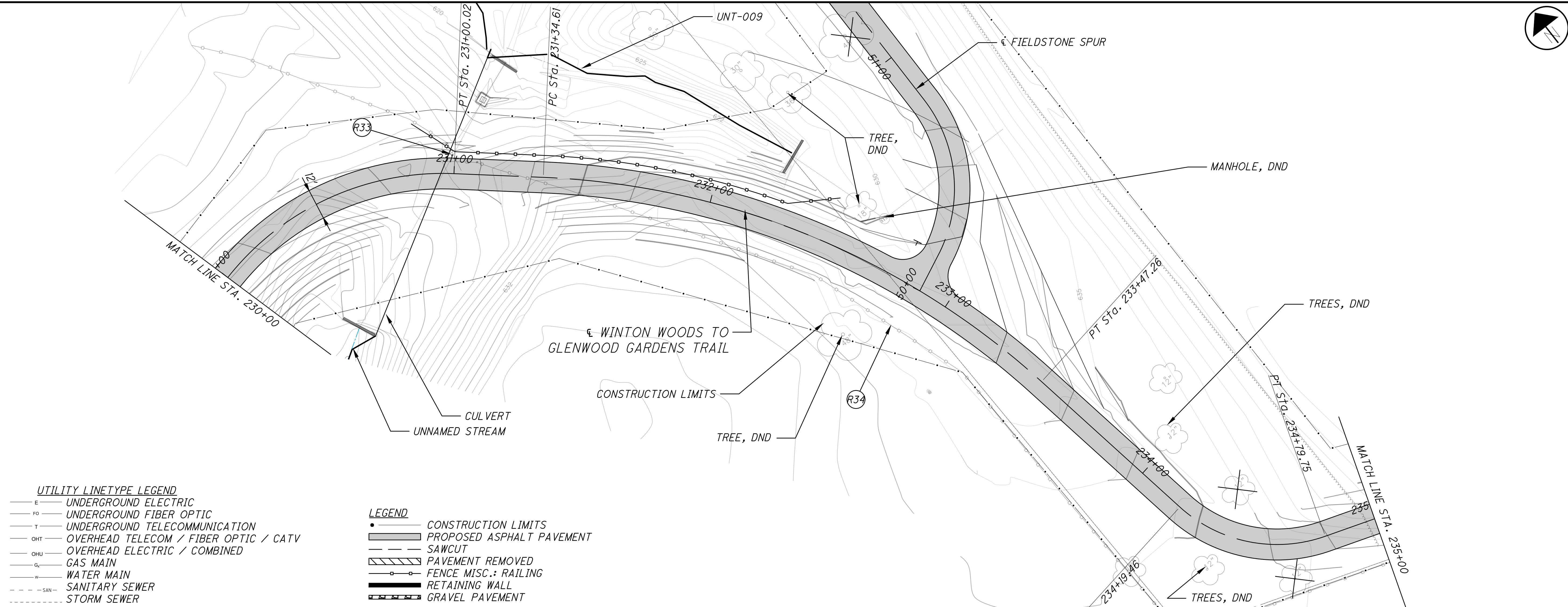
DESIGN AGENCY  
**KZFJ-SIGN**  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER: SCR  
REVIEWER: SCR  
PROJECT ID: 117016  
SHEET TOTAL: P.65 / 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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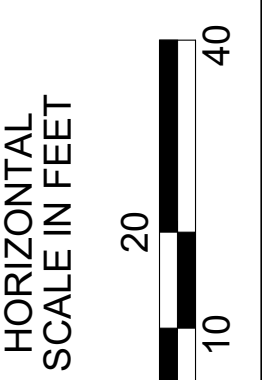
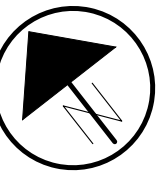
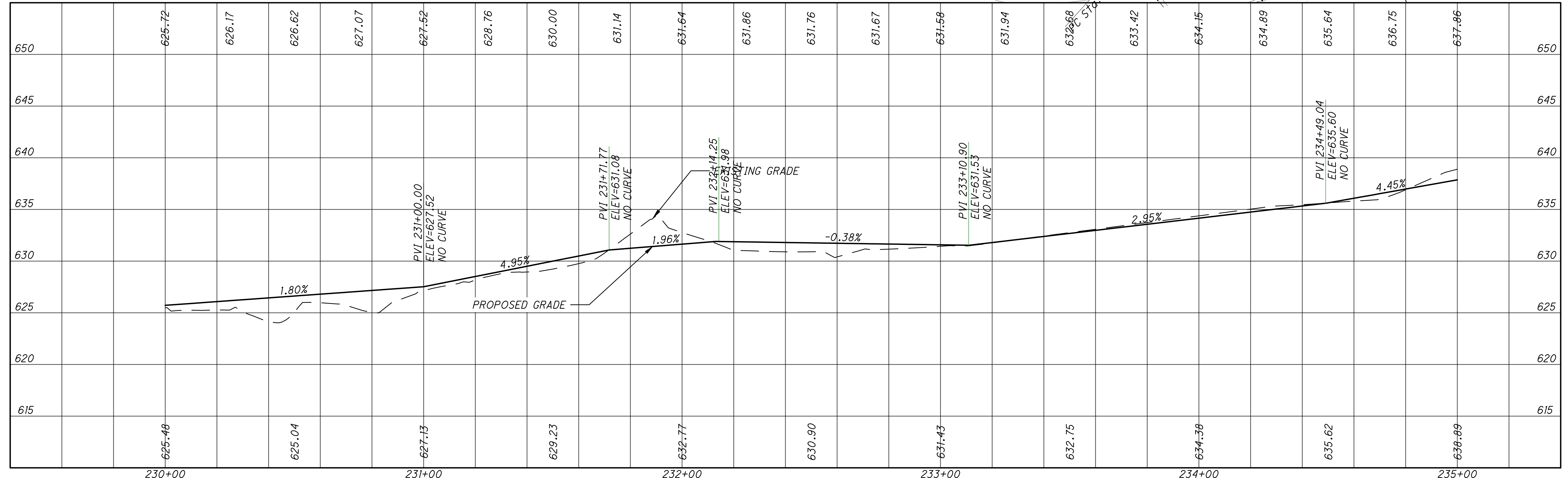


**UTILITY LINETYPE LEGEND**

—E—	UNDERGROUND ELECTRIC
—FO—	UNDERGROUND FIBER OPTIC
—T—	UNDERGROUND TELECOMMUNICATION
—OHT—	OVERHEAD TELECOM / FIBER OPTIC / CATV
—OHU—	OVERHEAD ELECTRIC / COMBINED
—G—	GAS MAIN
—W—	WATER MAIN
—SAN—	SANITARY SEWER
---	STORM SEWER

**LEGEND**

—	CONSTRUCTION LIMITS
▨	PROPOSED ASPHALT PAVEMENT
---	SAWCUT
▨	PAVEMENT REMOVED
—○—	FENCE MISC.: RAILING
—	RETAINING WALL
▨	GRAVEL PAVEMENT



PLAN AND PROFILE - WW TO GG  
STA. 230+00.00 TO STA. 235+00.00

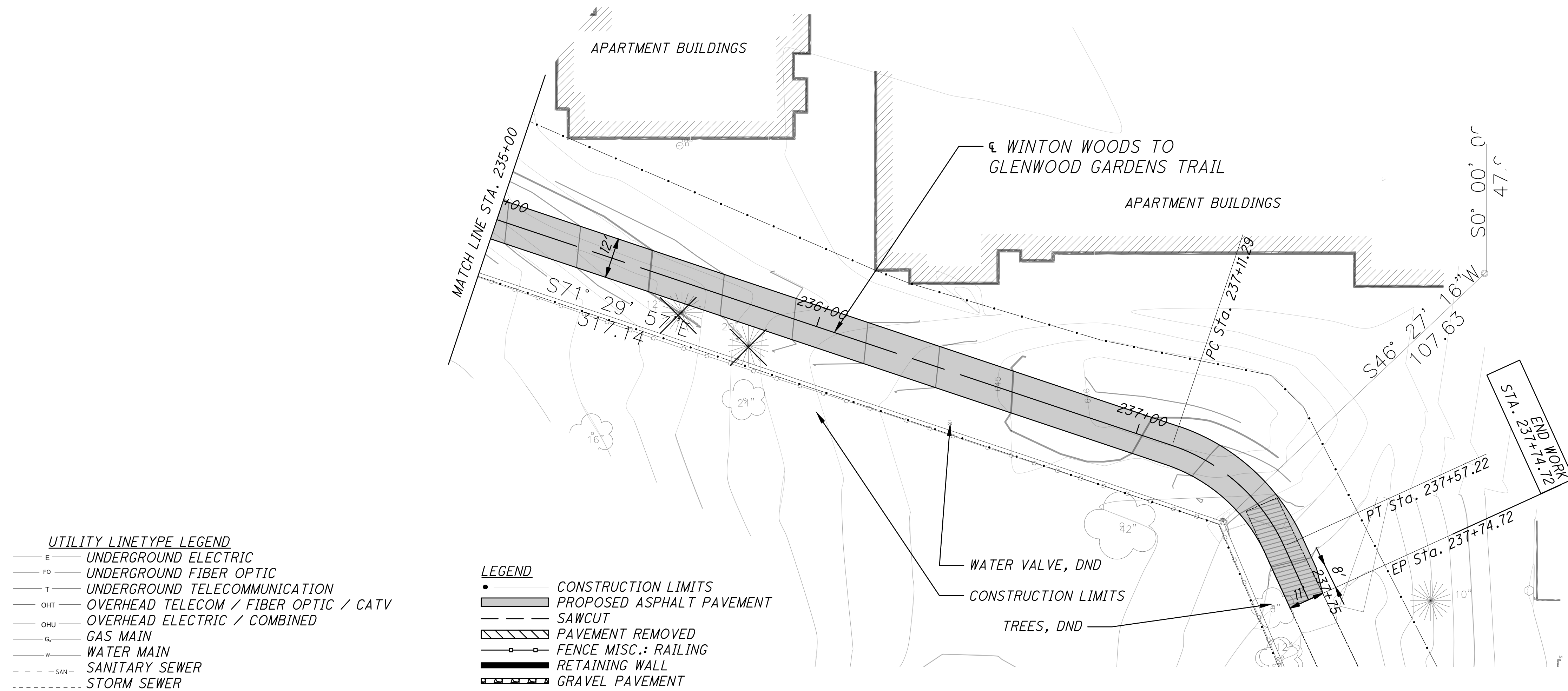
DESIGN AGENCY  
**KZFJ-SIGN**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.66
TOTAL	210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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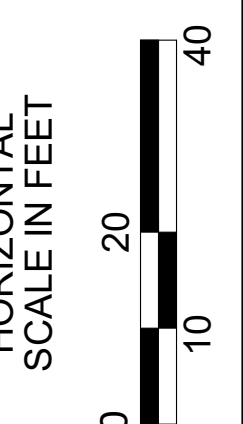
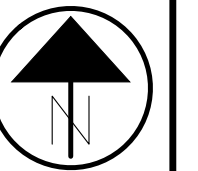
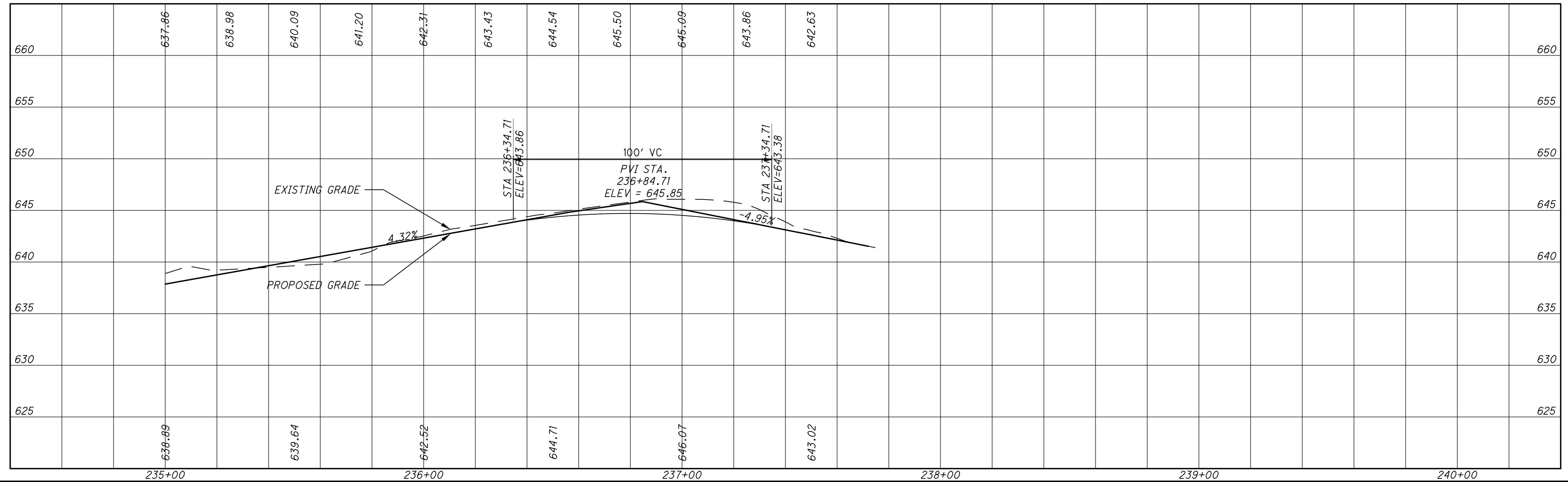


UTILITY LINETYPE LEGEND

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHU OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

LEGEND

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL
- GRAVEL PAVEMENT



PLAN AND PROFILE - WW TO GG  
STA. 235+00.00 TO STA. 237+74.72

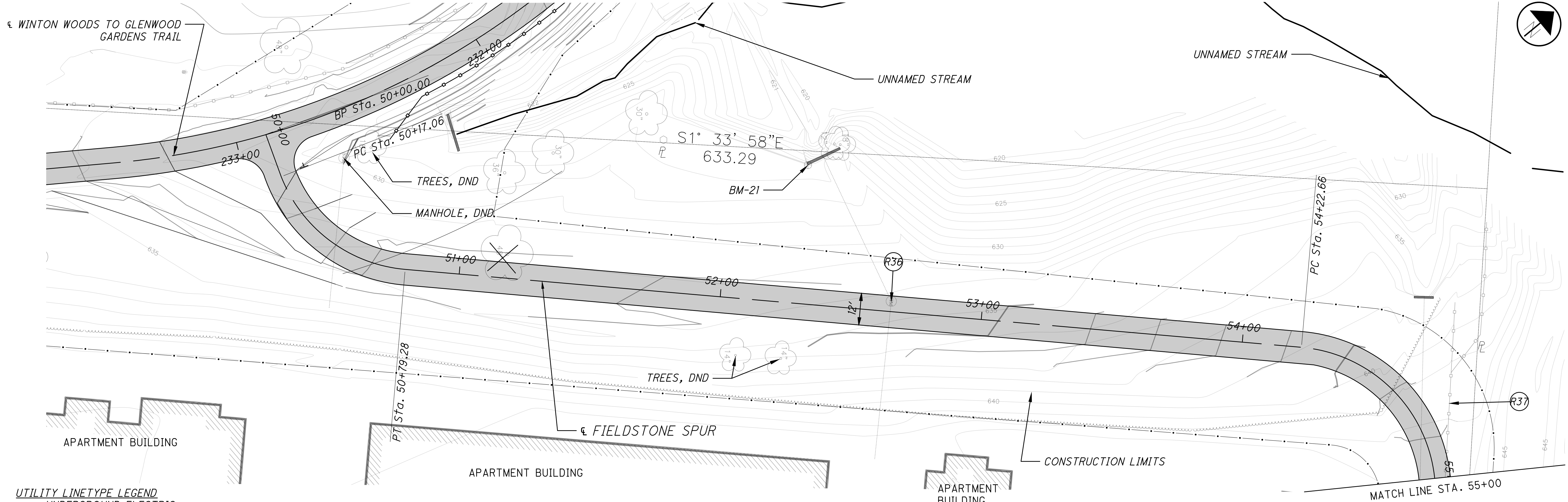
DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.67 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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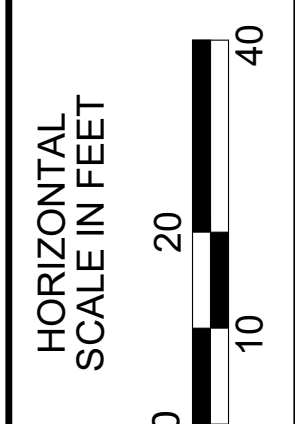
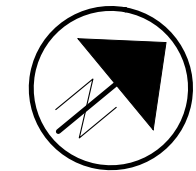
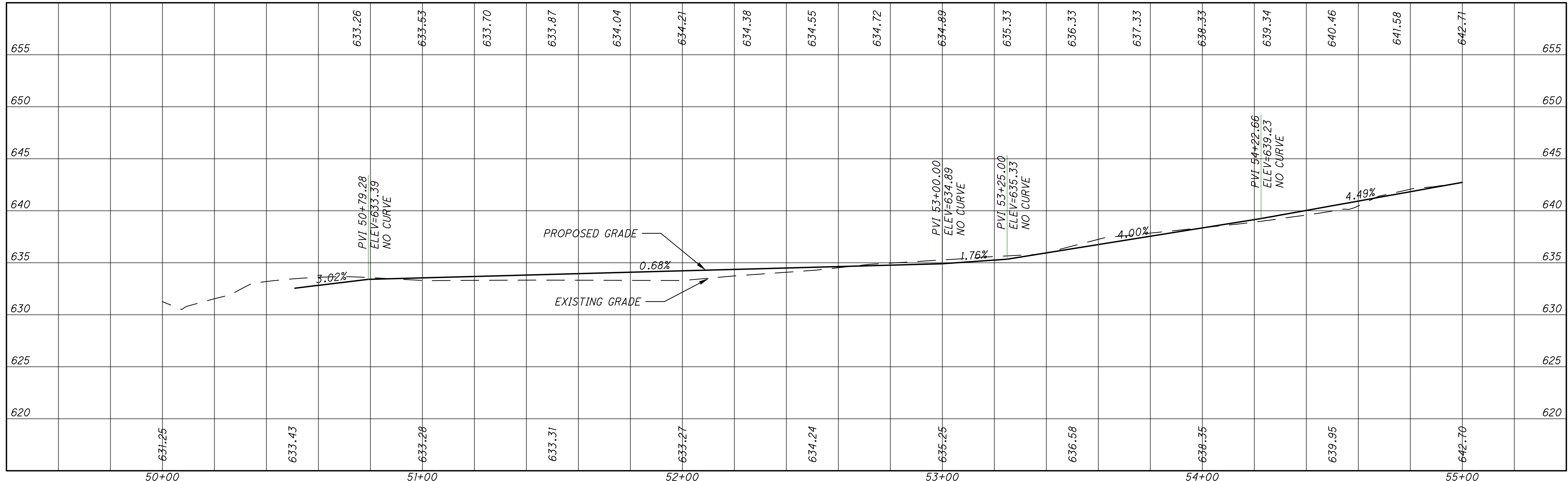


**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL
- GRAVEL PAVEMENT



PLAN AND PROFILE - FIELDSTONE SPUR  
STA. 50+00.00 TO STA. 55+00.00

DESIGN AGENCY

**KZFJ-SIG**  
Designing Better Futures

700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

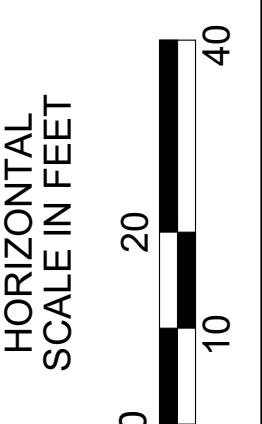
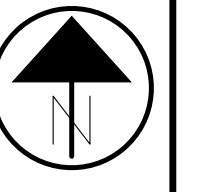
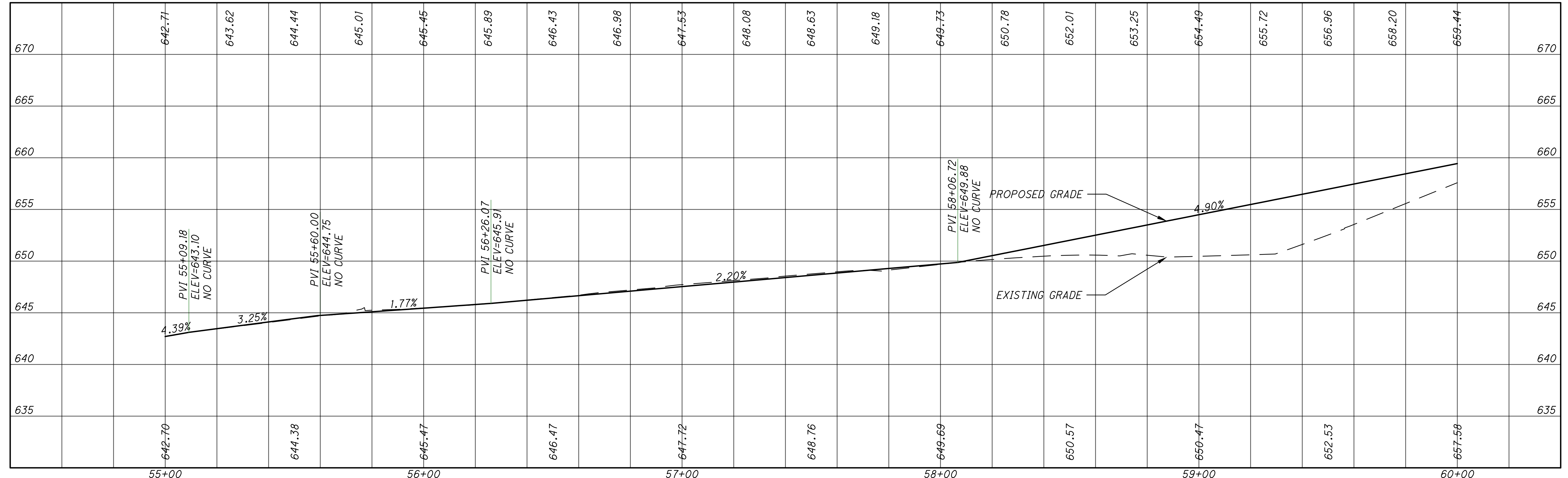
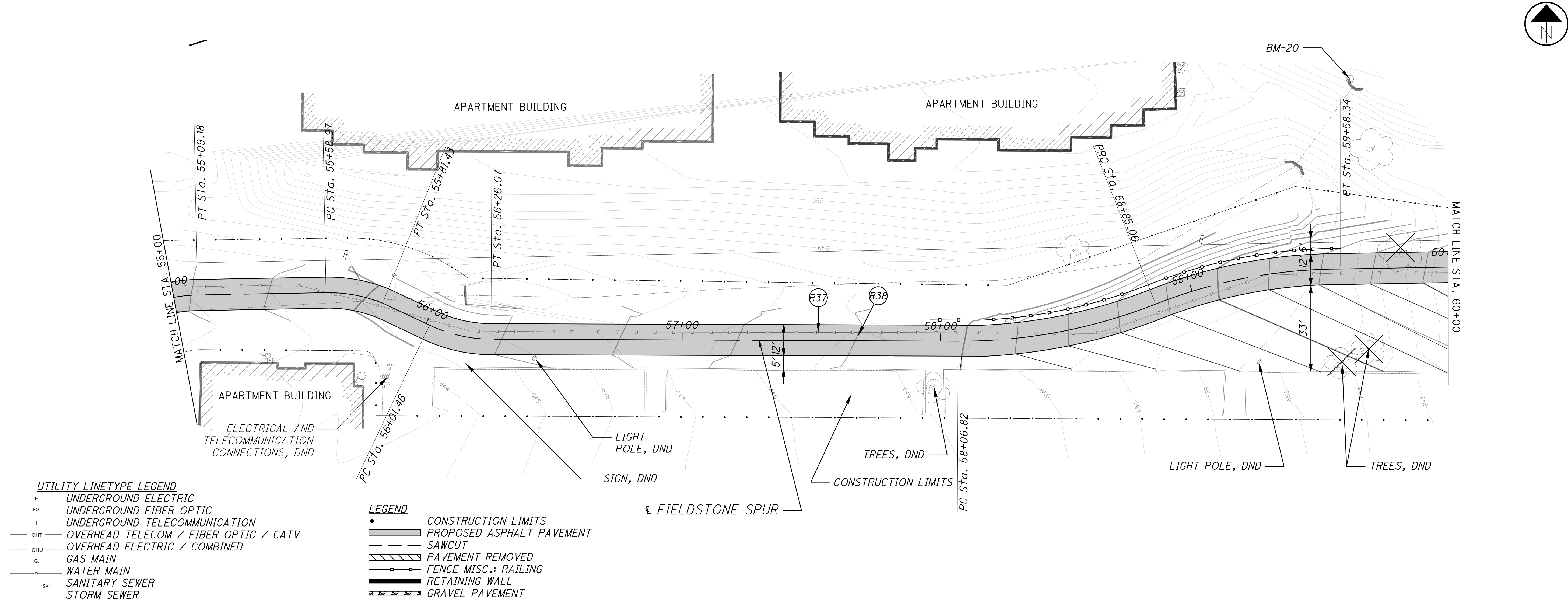
PROJECT ID  
117016

SHEET TOTAL  
P.68 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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PLAN AND PROFILE - FIELDSTONE SPUR  
STA. 55+00.00 TO STA. 60+00.00

DESIGN AGENCY  
**KZFJ-SIG**  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

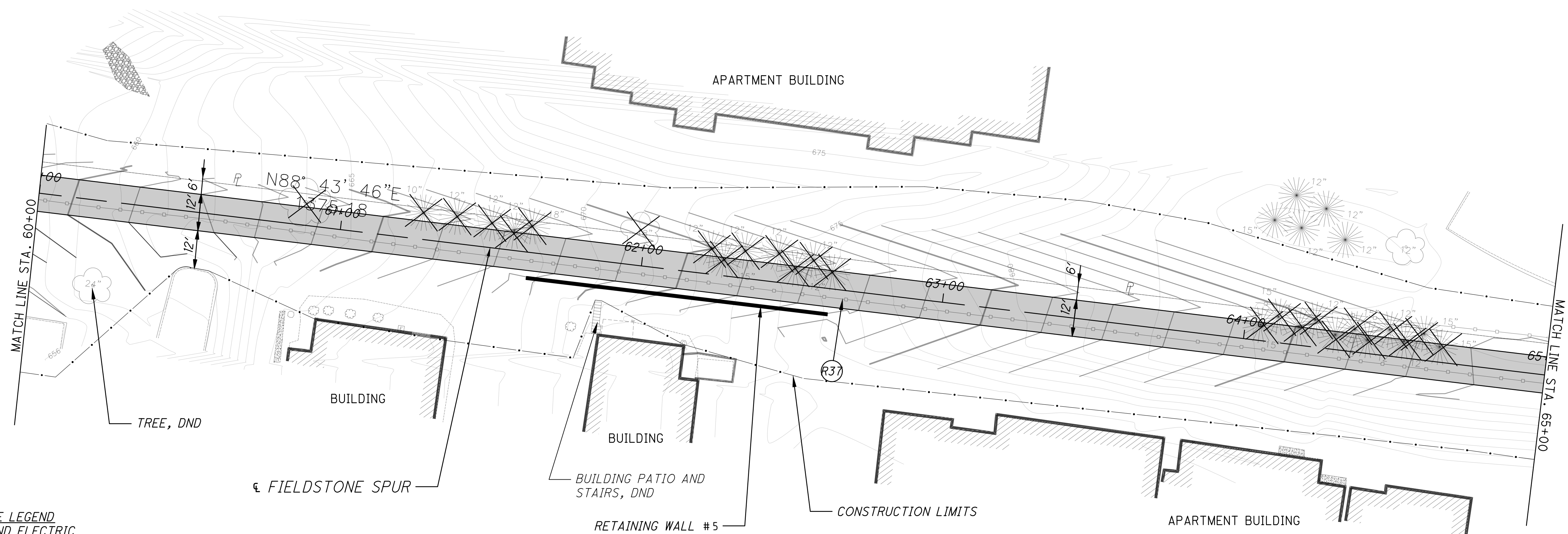
PROJECT ID  
117016

SHEET TOTAL  
P.69 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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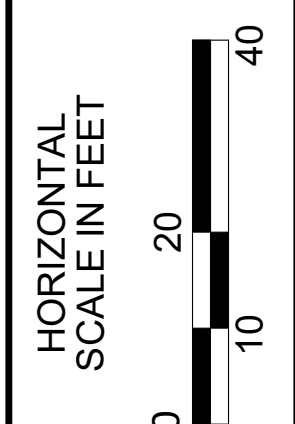
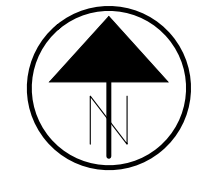
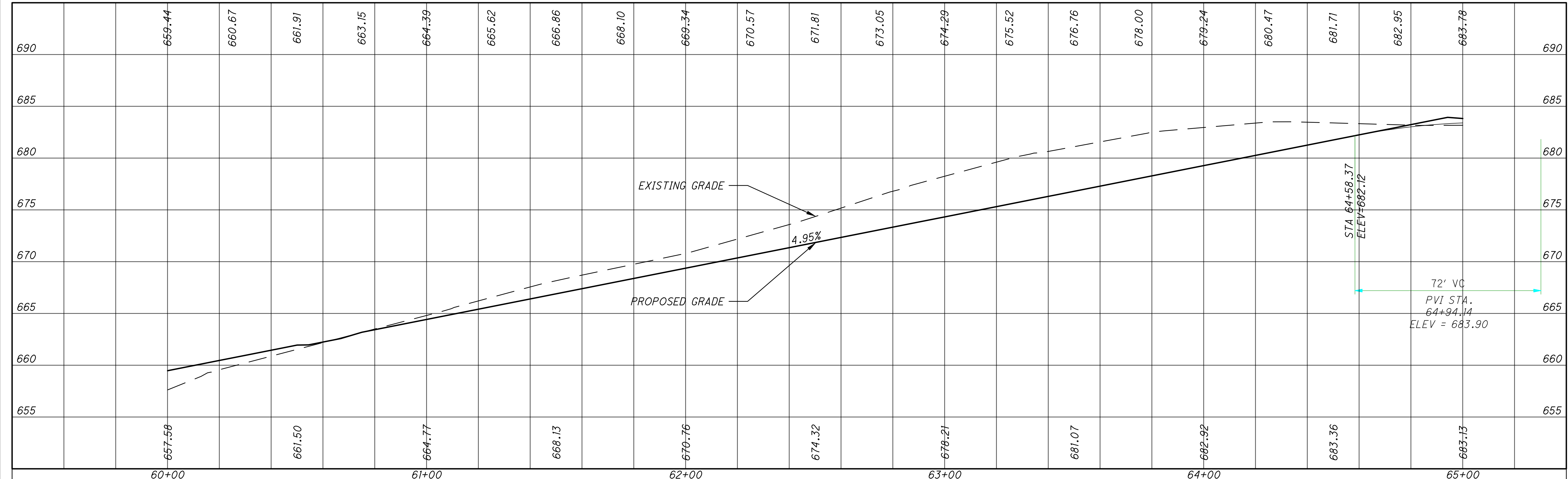
**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- PAVEMENT REMOVED
- FENCE MISC.: RAILING
- RETAINING WALL
- GRAVEL PAVEMENT

- NOTES**
1. FOR TYPICAL SECTION SEE SHEET 06-13
  2. FOR DRIVEWAY DETAILS SEE SHEETS 166
  3. FOR INTERSECTION DETAILS SEE SHEET 165
  4. FOR RETAINING WALL PLAN SEE SHEETS
  5. FOR LANDSCAPING PLANS AND TREE PROTECTION NOTES SEE SHEETS XX-XX

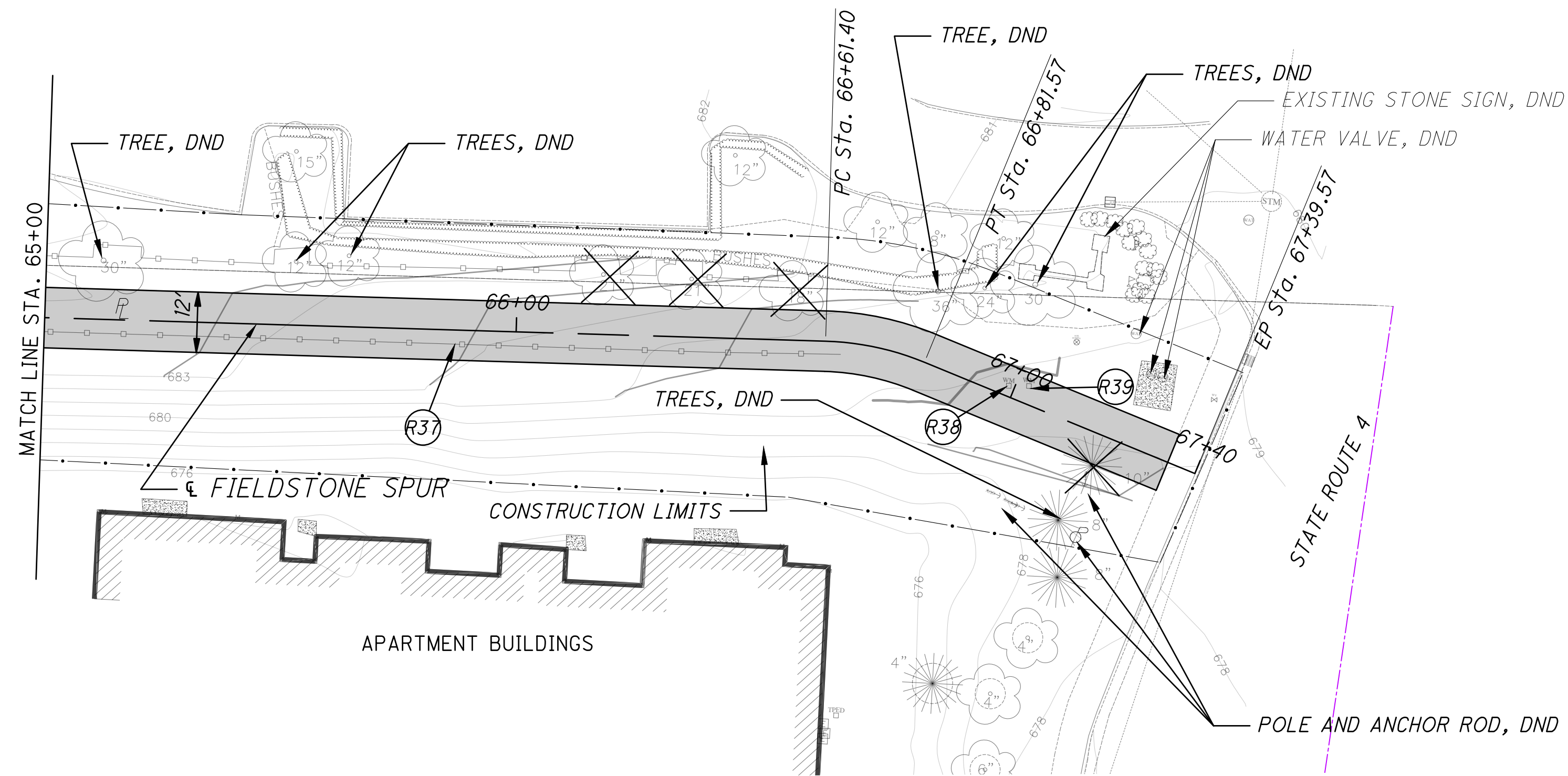


PLAN AND PROFILE - FIELDSTONE SPUR  
STA. 60+00.00 TO STA. 65+00.00

DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.70
TOTAL	210





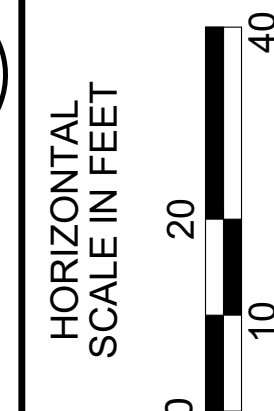
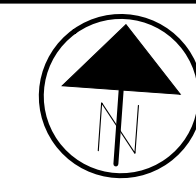
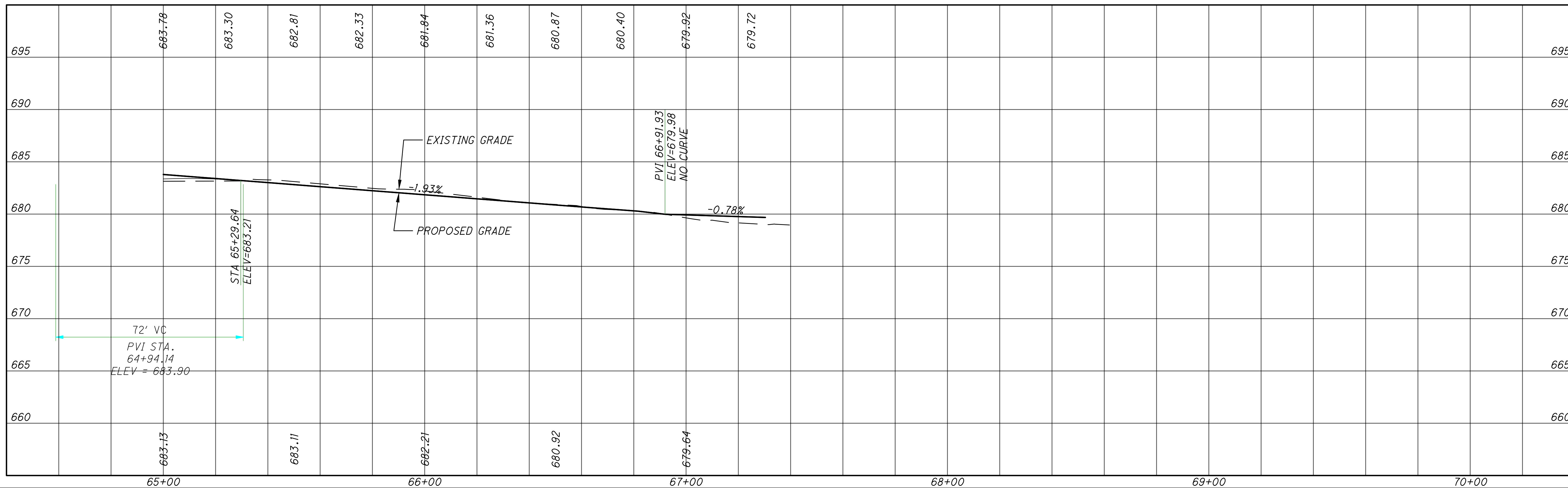
**UTILITY LINETYPE LEGEND**

—E—	UNDERGROUND ELECTRIC
—FO—	UNDERGROUND FIBER OPTIC
—T—	UNDERGROUND TELECOMMUNICATION
—OHT—	OVERHEAD TELECOM / FIBER OPTIC / CATV
—OHU—	OVERHEAD ELECTRIC / COMBINED
—G—	GAS MAIN
—W—	WATER MAIN
—SAN—	SANITARY SEWER
---	STORM SEWER

**LEGEND**

—	CONSTRUCTION LIMITS
▬	PROPOSED ASPHALT PAVEMENT
---	SAWCUT
▨	PAVEMENT REMOVED
—○—	FENCE MISC.: RAILING
▬	RETAINING WALL
▨	GRAVEL PAVEMENT

- NOTES**
1. FOR TYPICAL SECTION SEE SHEET 06-13
  2. FOR DRIVEWAY DETAILS SEE SHEETS 166
  3. FOR INTERSECTION DETAILS SEE SHEET 165
  4. FOR RETAINING WALL PLAN SEE SHEETS
  5. FOR LANDSCAPING PLANS AND TREE PROTECTION NOTES SEE SHEETS XX-XX



PLAN AND PROFILE - FIELDSTONE SPUR  
STA. 65+00.00 TO STA. 67+40.00

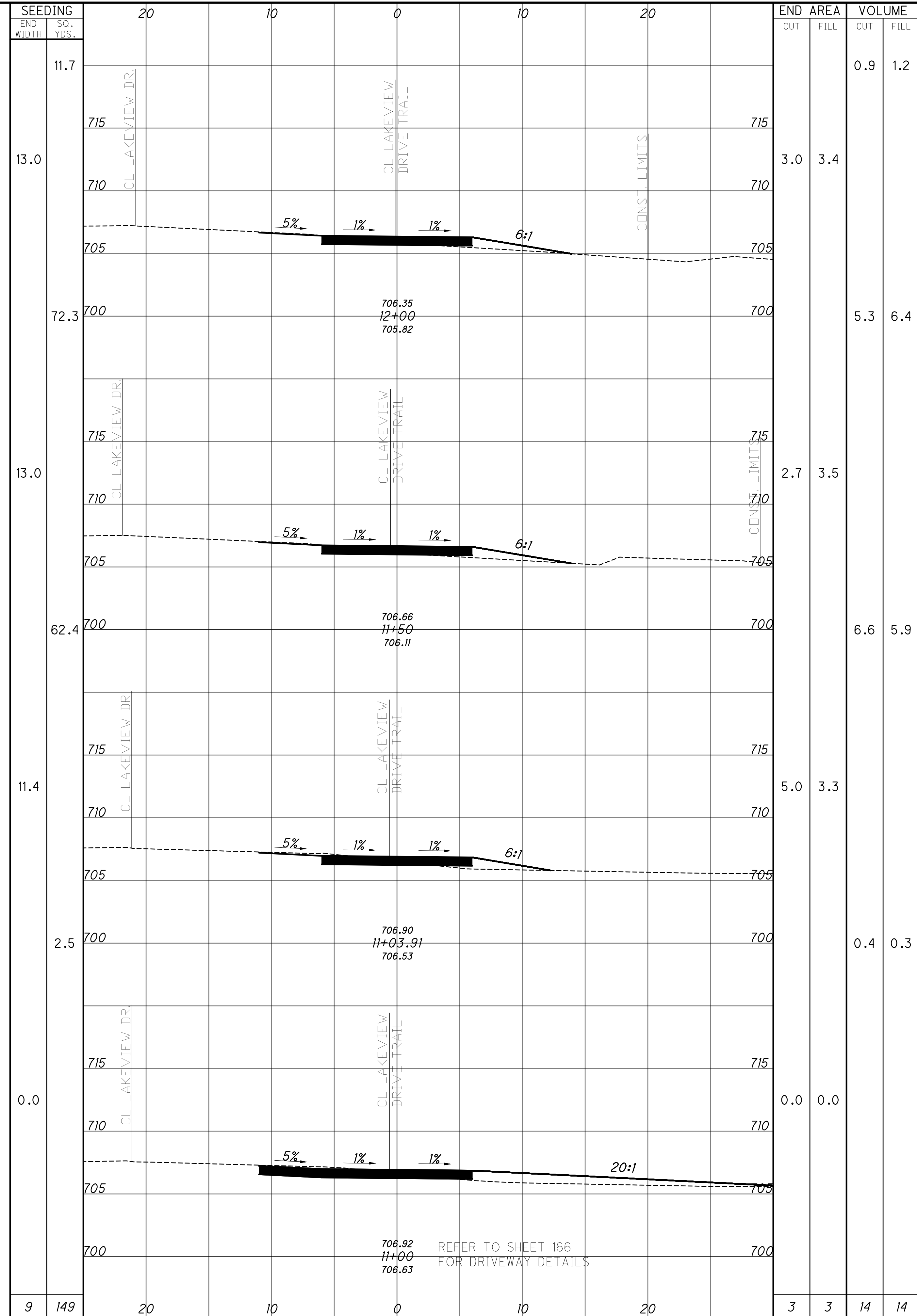
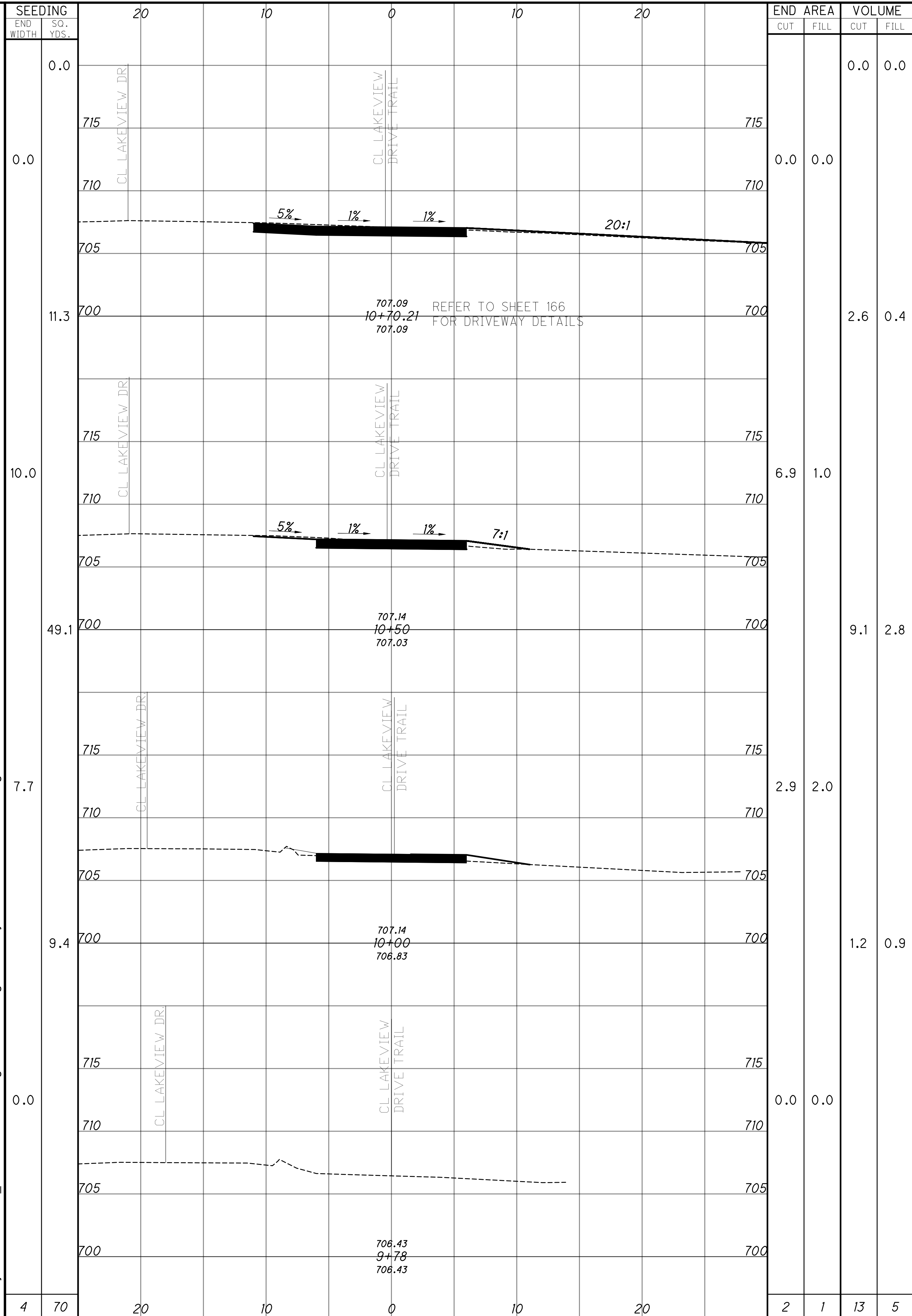
DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.71
TOTAL	210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 9+50.00 TO STA. 12+00.00

DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 4/1/2024

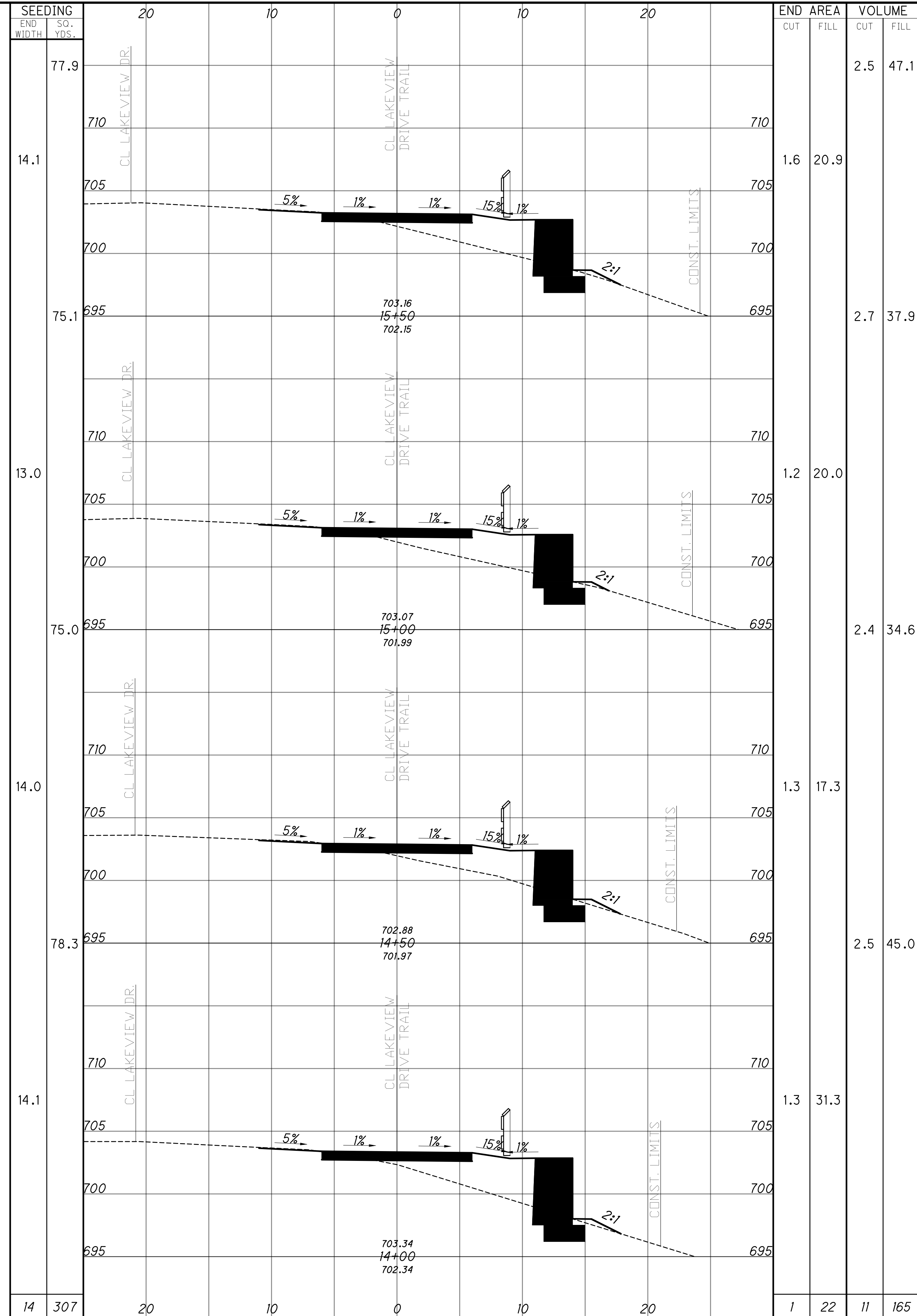
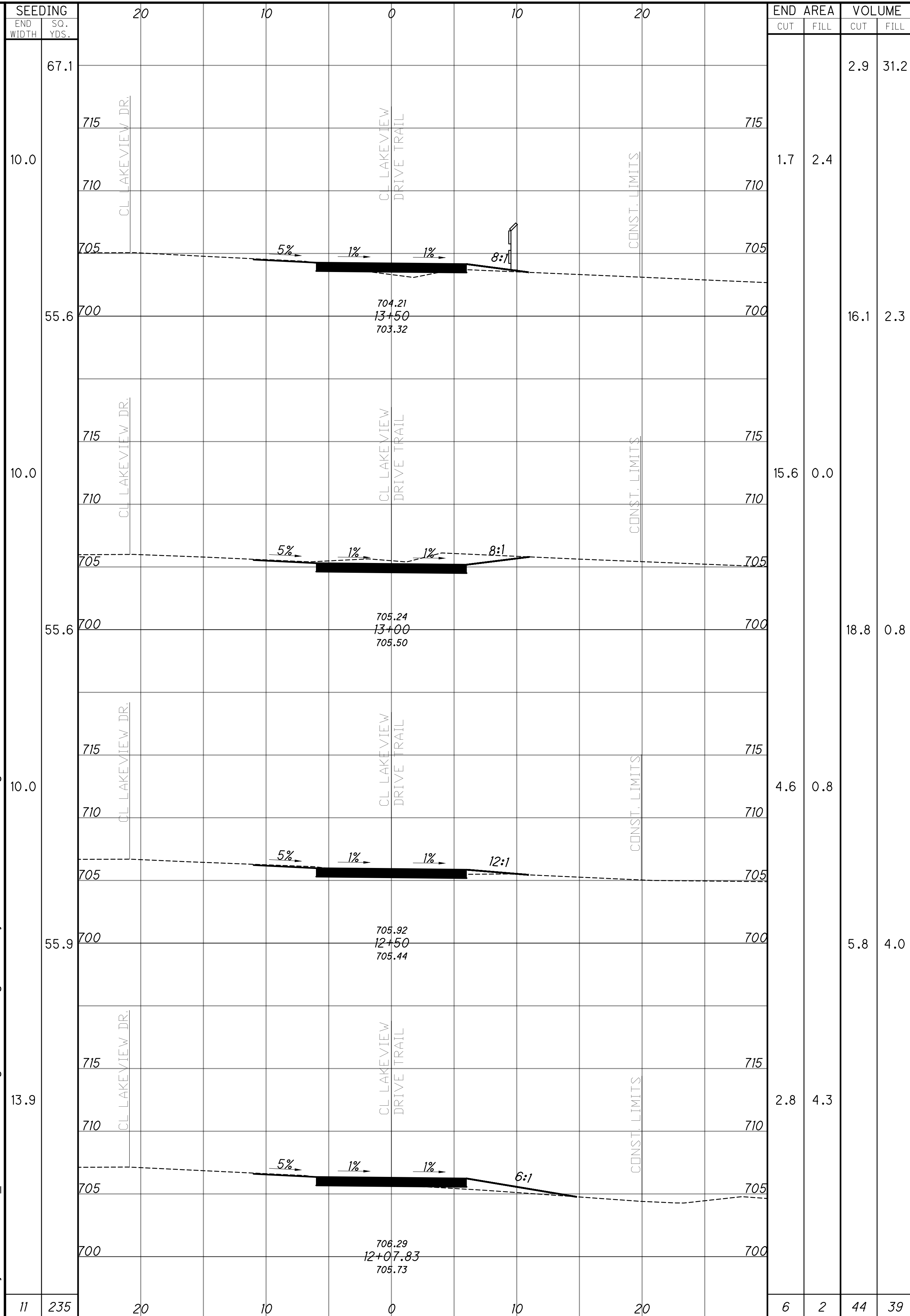
PROJECT ID  
117016

SHEET TOTAL  
P.72 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 12+07.83 TO STA. 15+50.00

DESIGN AGENCY  
**KZFJ-SIG**  
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700 Broadway Street  
Cincinnati, OH 45202-6010  
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REVIEWER  
SCR 4/1/2024

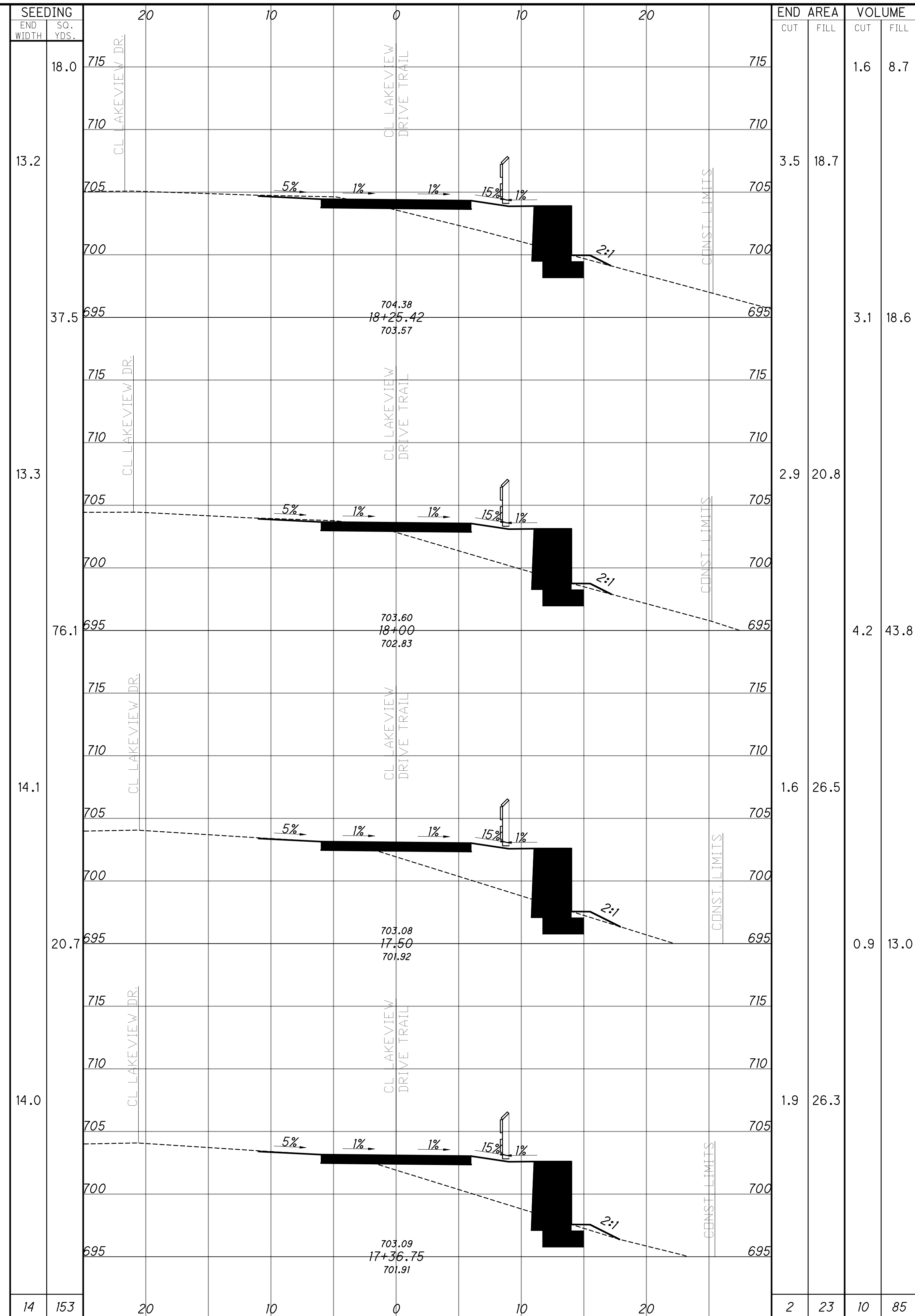
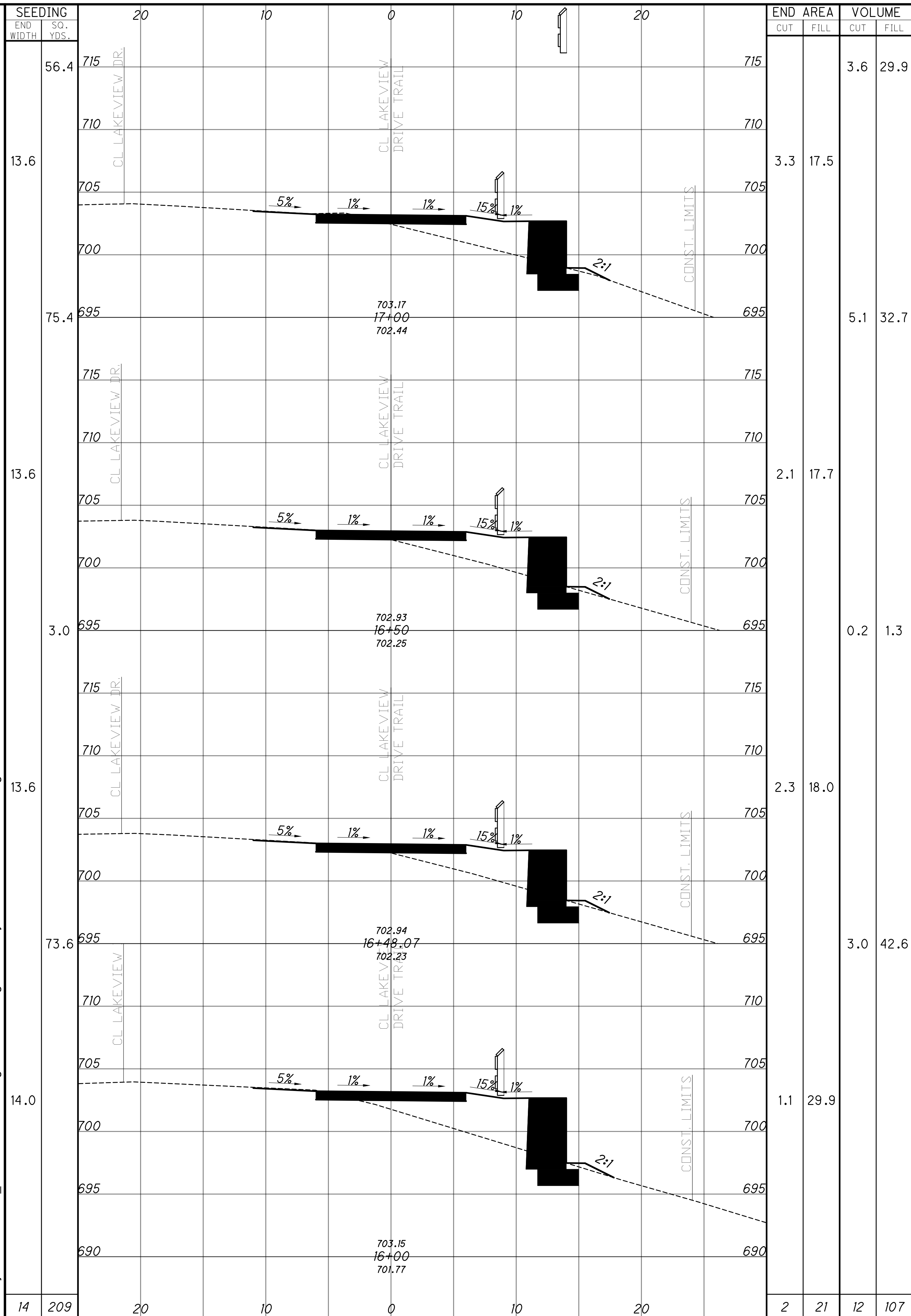
PROJECT ID  
117016

SHEET TOTAL  
P.73 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 16+00.00 TO STA. 18+25.42

DESIGN AGENCY  
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DESIGNER  
SCR

REVIEWER  
SCR 4/1/2024

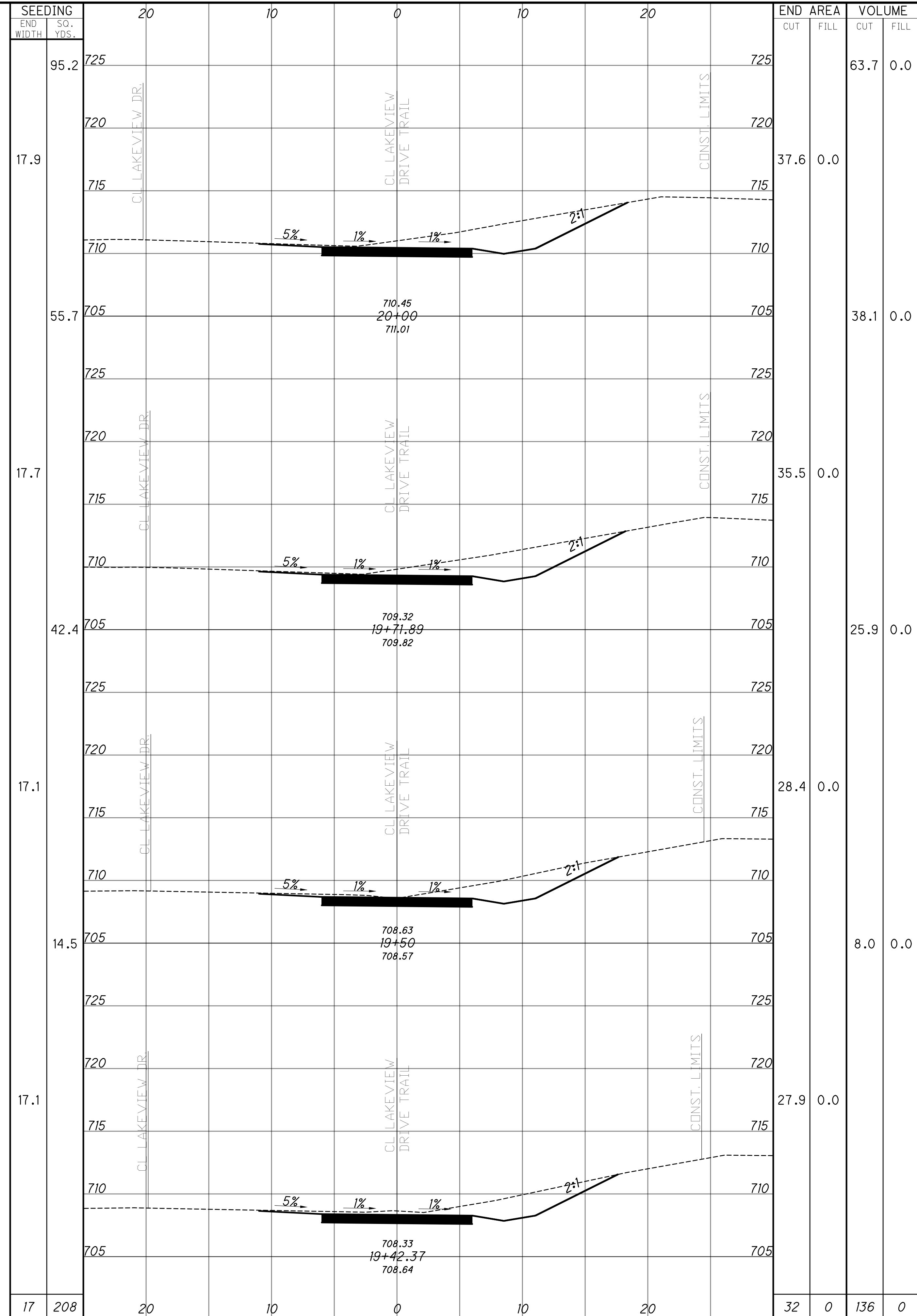
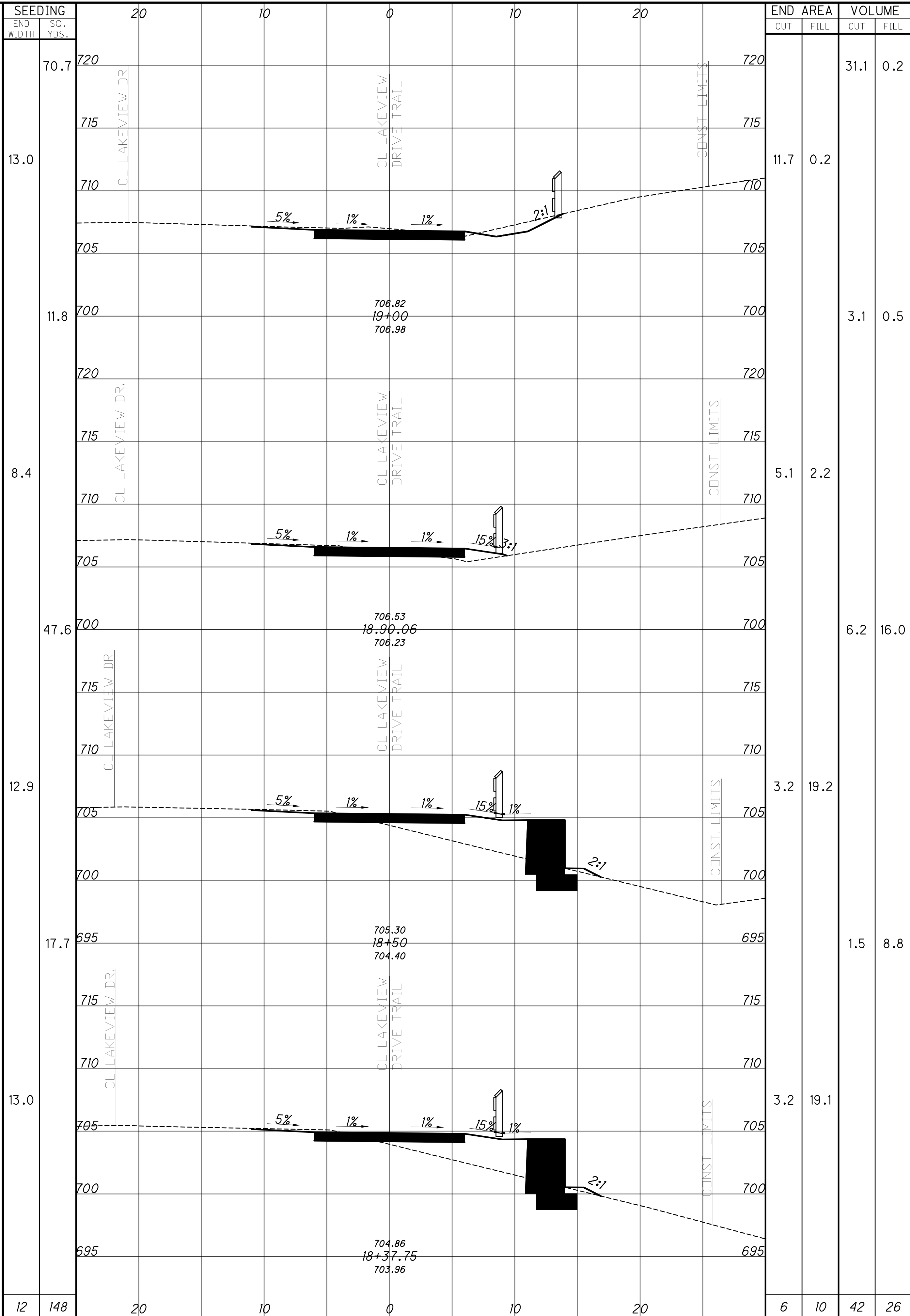
PROJECT ID  
117016

SHEET TOTAL  
P.74 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 18+37.75 TO STA. 20+00.00

DESIGN AGENCY  
**KZFJ-SIG**  
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FAX 513 621 6530

DESIGNER  
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REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

SHEET TOTAL  
P.75 210

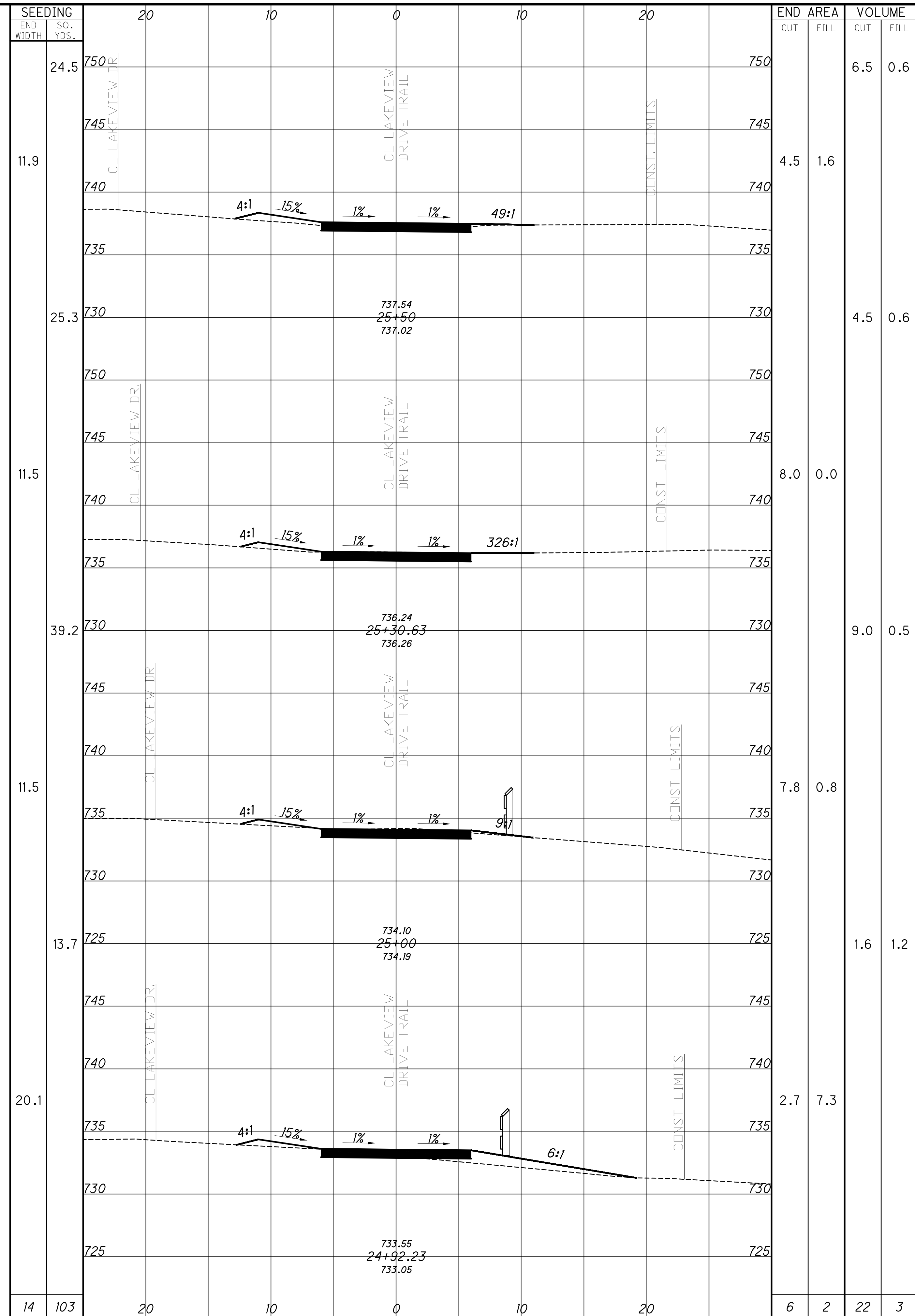
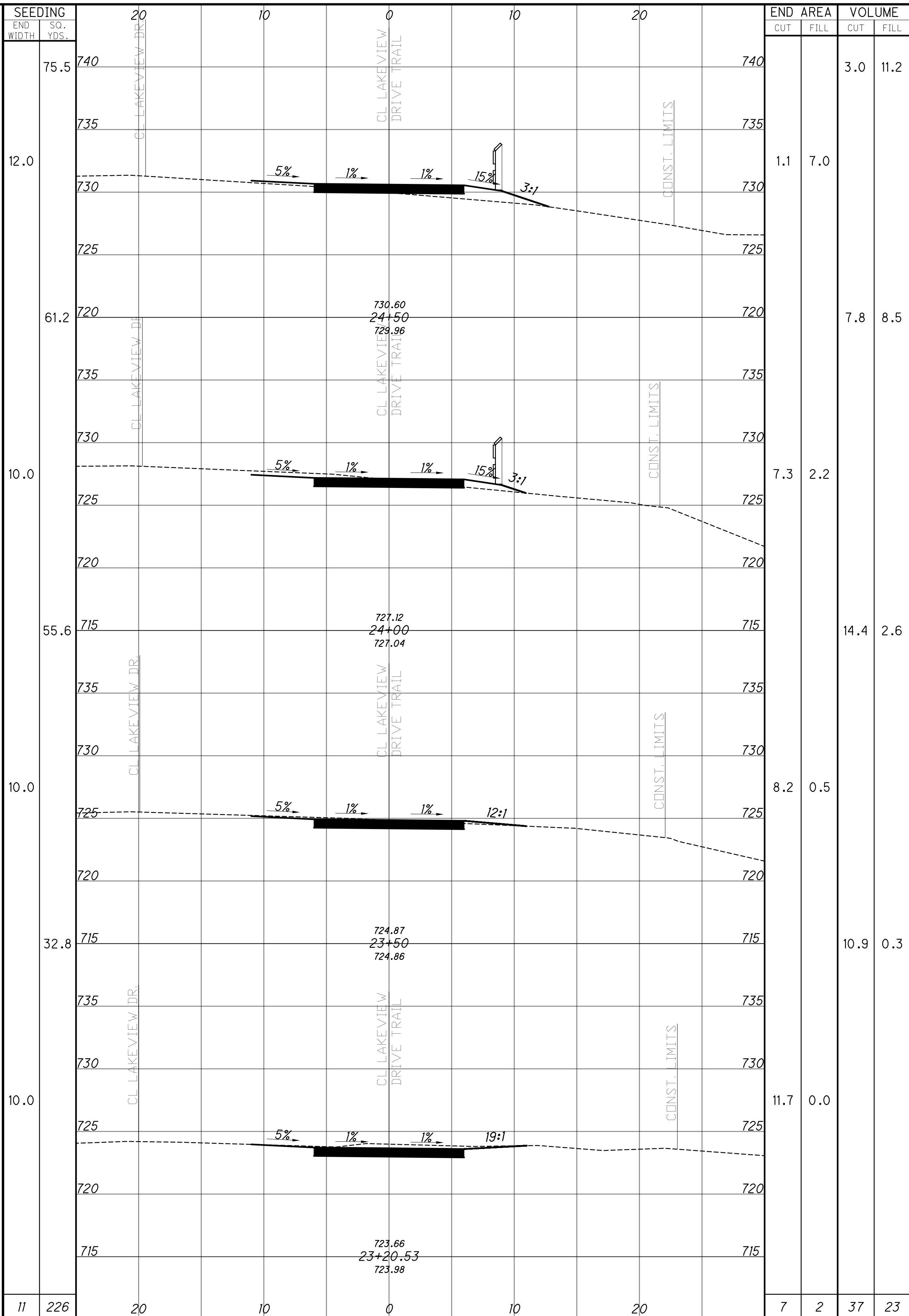






HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 23+20.53 TO STA. 25+50.00

DESIGN AGENCY  
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DESIGNER  
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REVIEWER  
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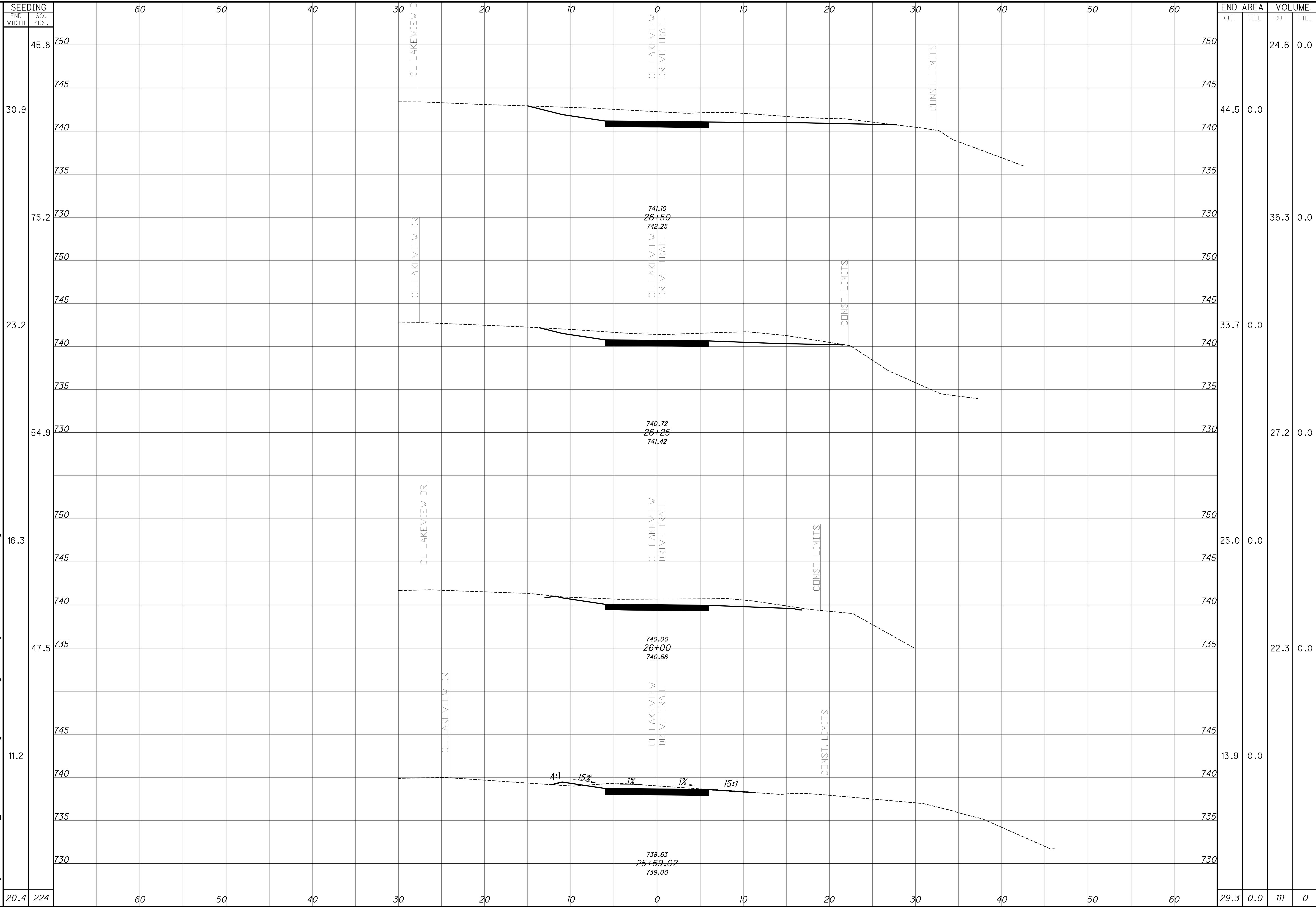
PROJECT ID  
 117016

SHEET TOTAL  
 P.77 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 25+69.02 TO STTA. 26+50.00

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 SCR

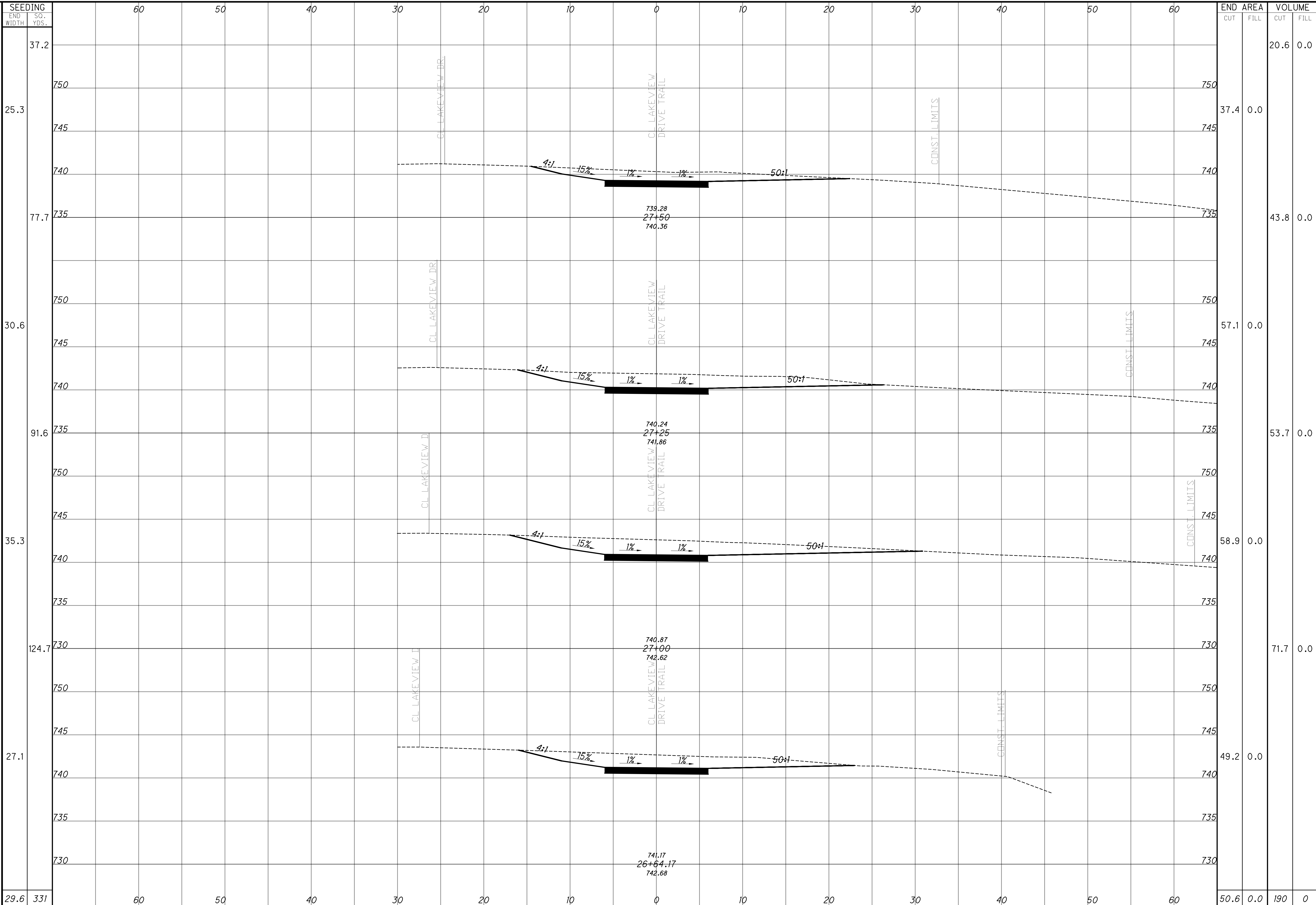
REVIEWER  
 SCR 4/1/2024

PROJECT ID  
 117016

SHEET TOTAL  
 P.78 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTION - LAKEVIEW DRIVE  
STA. 26+64.17 TO STA. 27+50.00

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Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 4/1/2024

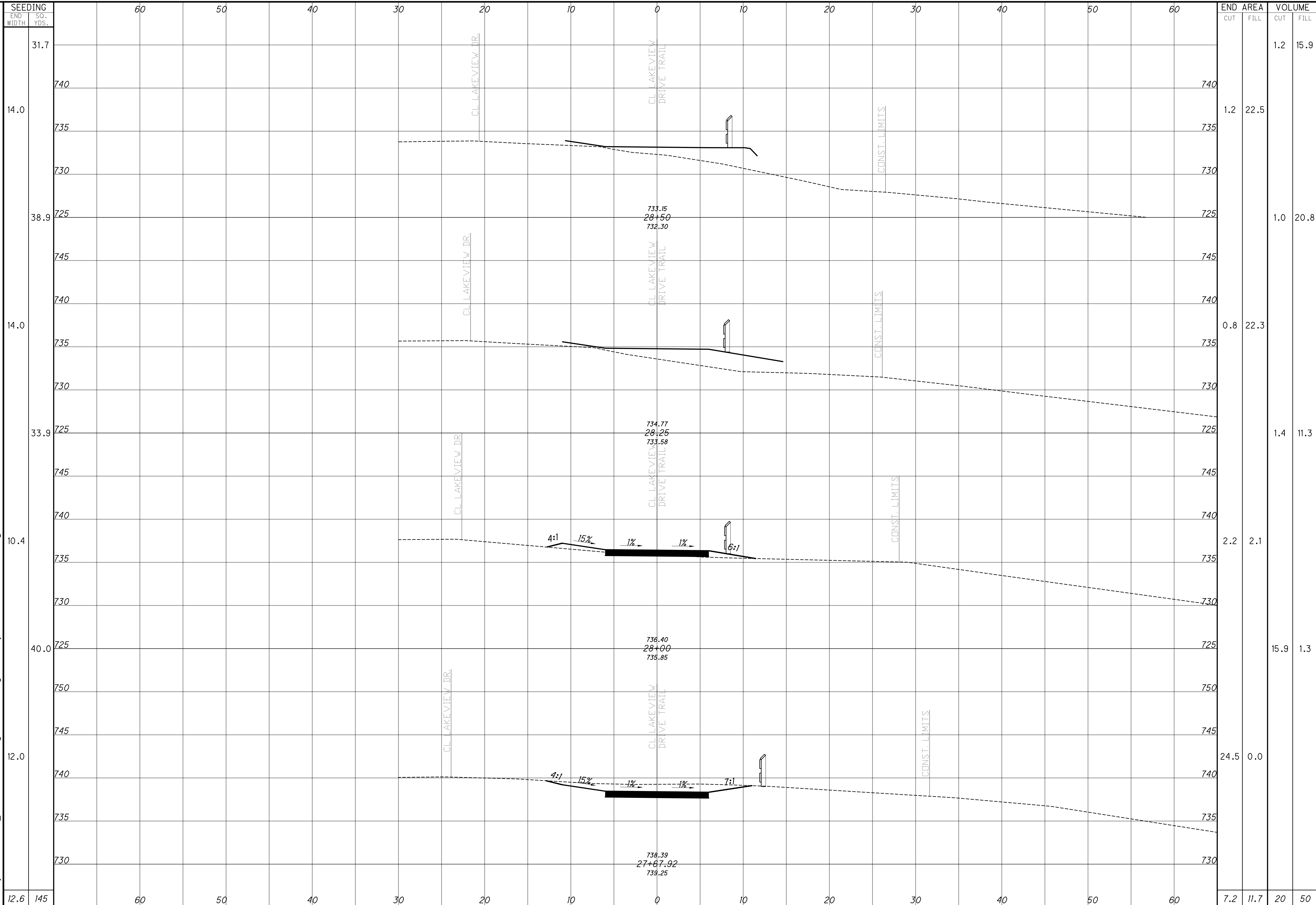
PROJECT ID  
117016

SHEET TOTAL  
P.79 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	
END WIDTH	SO. YDS.
12.6	145

END AREA		VOLUME	
CUT	FILL	CUT	FILL
7.2	11.7	20	50
15.9	1.3		
2.2	2.1		
0.8	22.3		
1.2	22.5		
1.2		1.2	15.9

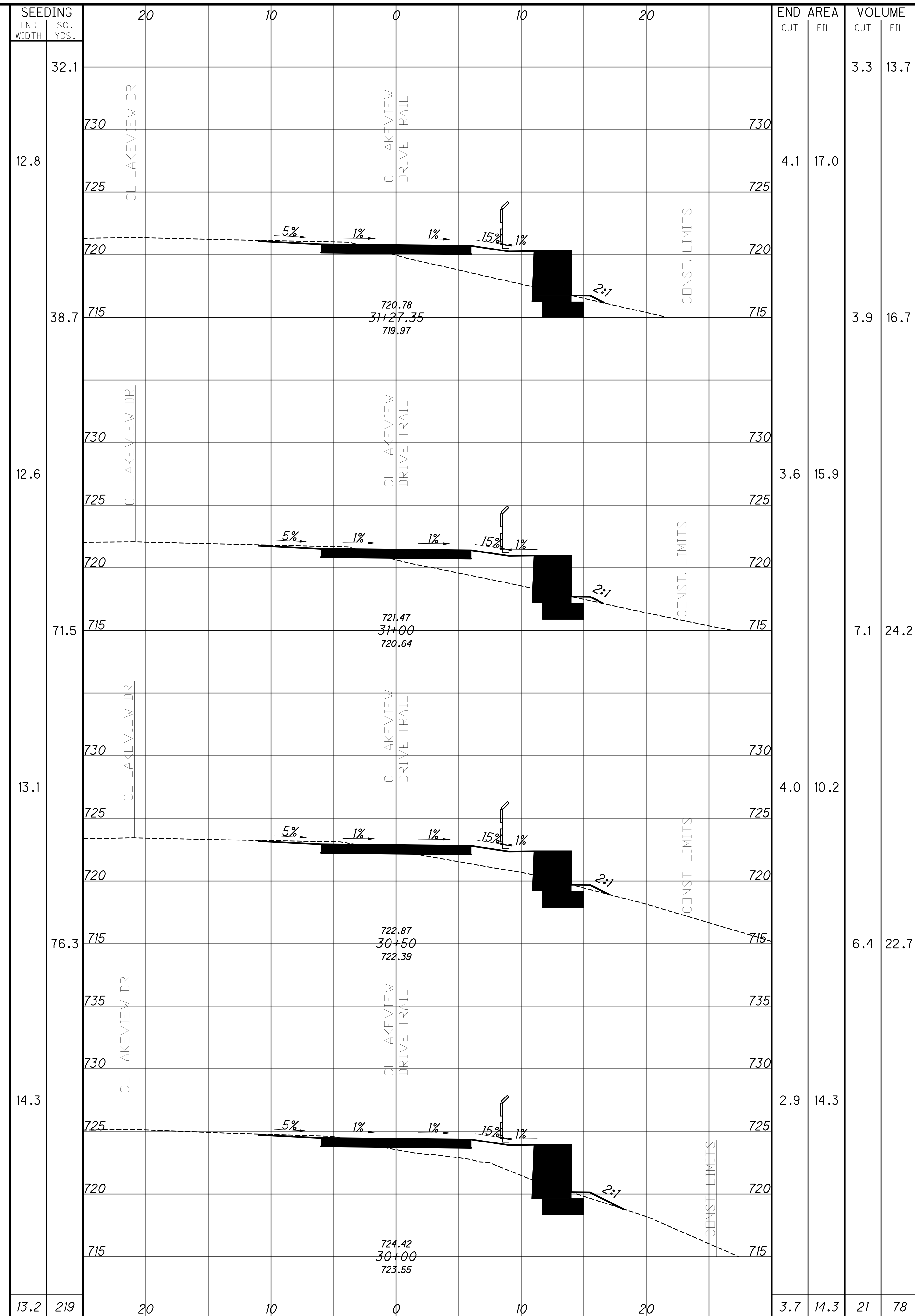
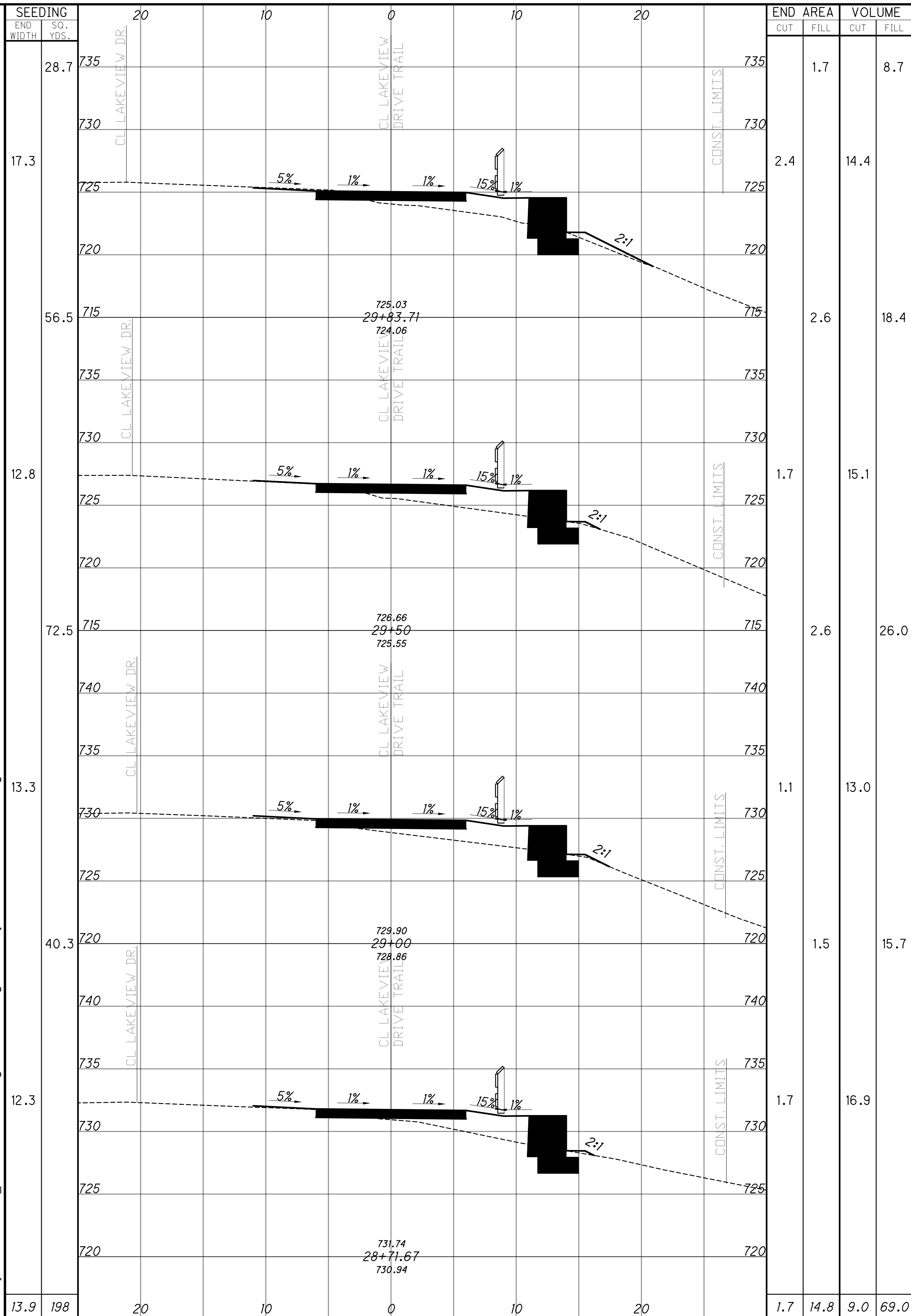
CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 27+67.92 TO STA. 28+50.00

DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
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Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR  
REVIEWER  
SCR 4/1/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.80 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 28+71.67 TO STA. 31+27.35

DESIGN AGENCY  
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Cincinnati, OH 45202-6010  
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DESIGNER  
SCR

REVIEWER  
SCR 4/1/2024

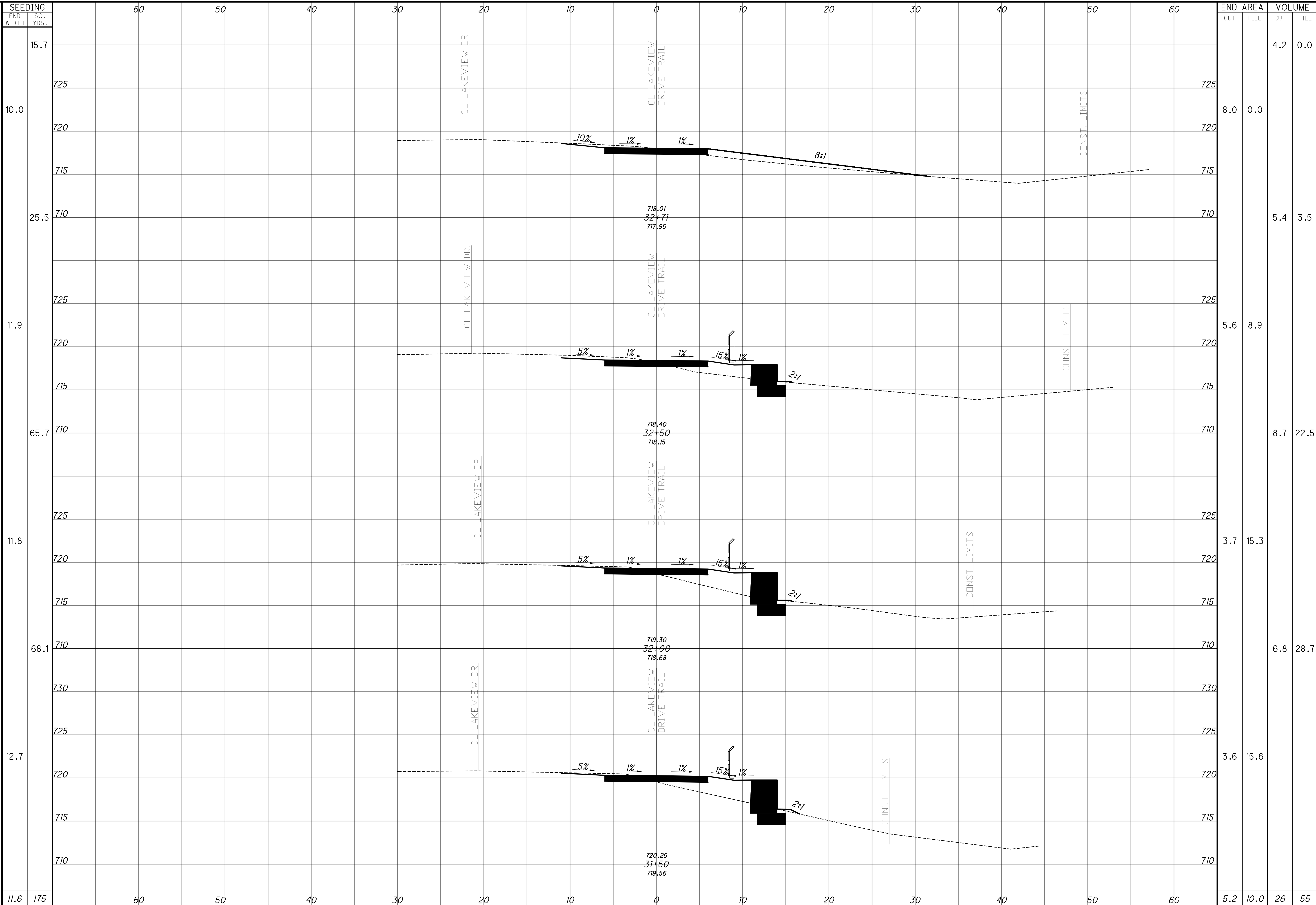
PROJECT ID  
117016

SHEET TOTAL  
P.81 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 31+50.00 TO STA. 32+71.00

DESIGN AGENCY  
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FAX 513 621 6530

DESIGNER  
SCR

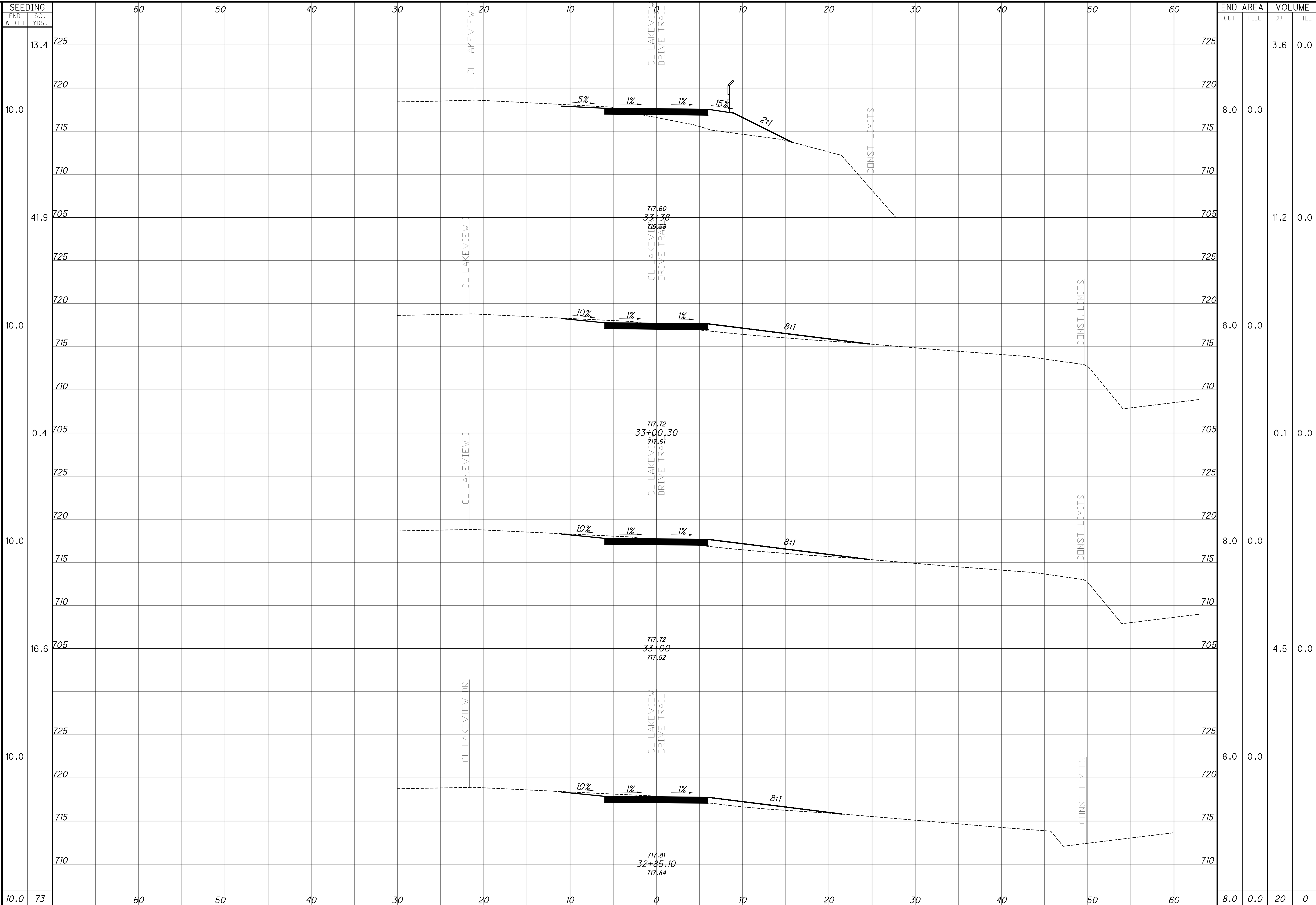
REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

SHEET TOTAL  
P.82 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	END SO.	
	WIDTH	YDS.
13.4	725	725
41.9	725	725
0.4	725	725
16.6	725	725
10.0	725	725
10.0	725	725

END AREA		VOLUME	
CUT	FILL	CUT	FILL
8.0	0.0	3.6	0.0
8.0	0.0	11.2	0.0
8.0	0.0	0.1	0.0
8.0	0.0	4.5	0.0
8.0	0.0	20	0

CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 32+85.10 TO STA. 33+38.00

DESIGN AGENCY  
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 FAX 513 621 6530

DESIGNER  
 SCR

REVIEWER  
 SCR 4/1/2024

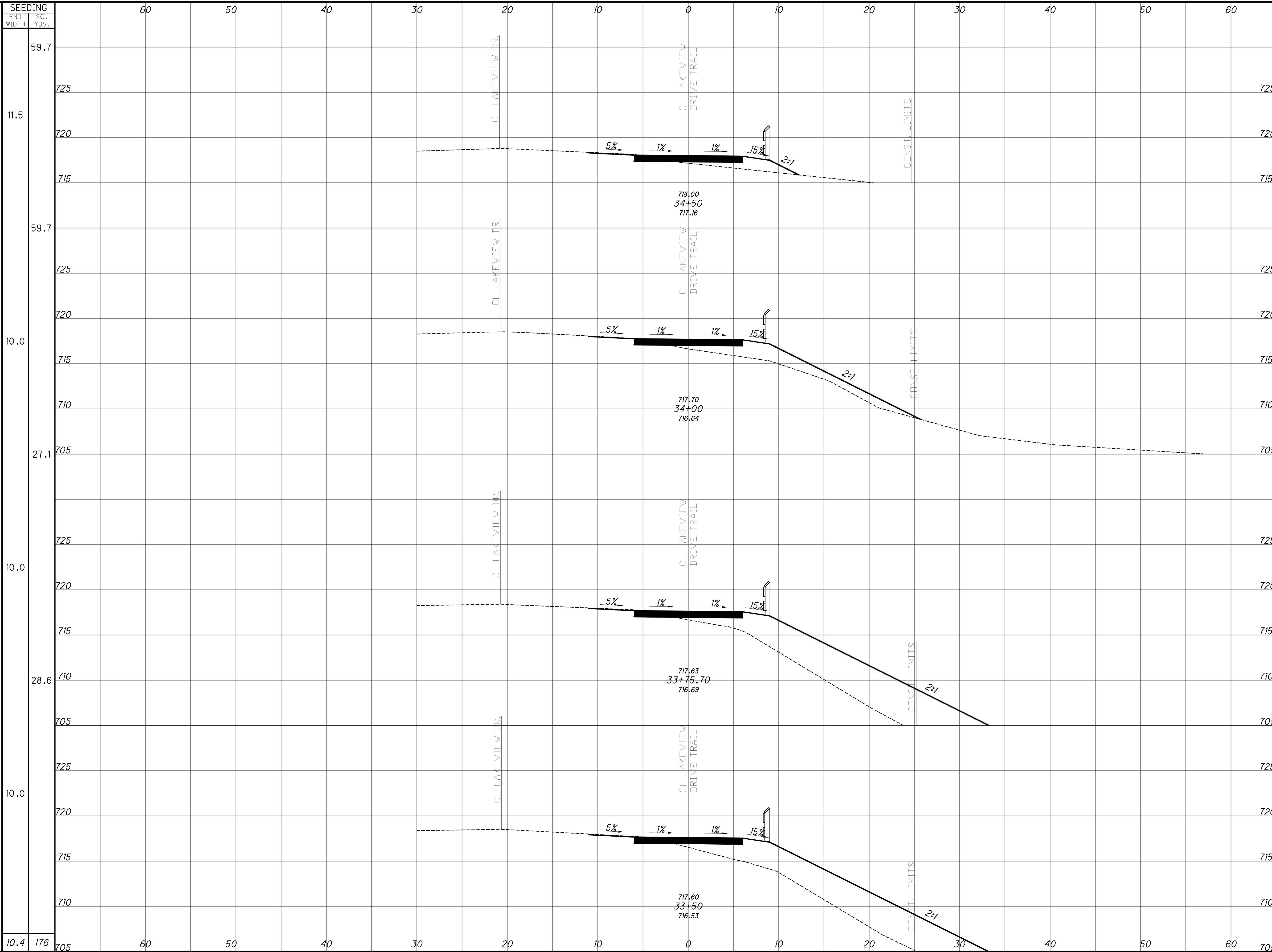
PROJECT ID  
 117016

SHEET TOTAL  
 P.83 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
59.7	2.0	8.9	4.9	10.8
59.7	9.3	8.3	9.3	8.3
27.1	7.3	0.0	7.3	0.0
28.6	8.0	0.0	8.0	0.0
28.6	7.7	0.0	7.7	0.0
28.6	8.0	0.0	8.0	0.0
10.4	6.5	2.2	30	20

CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 33+50.00 TO STA. 34+50.00

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 SCR

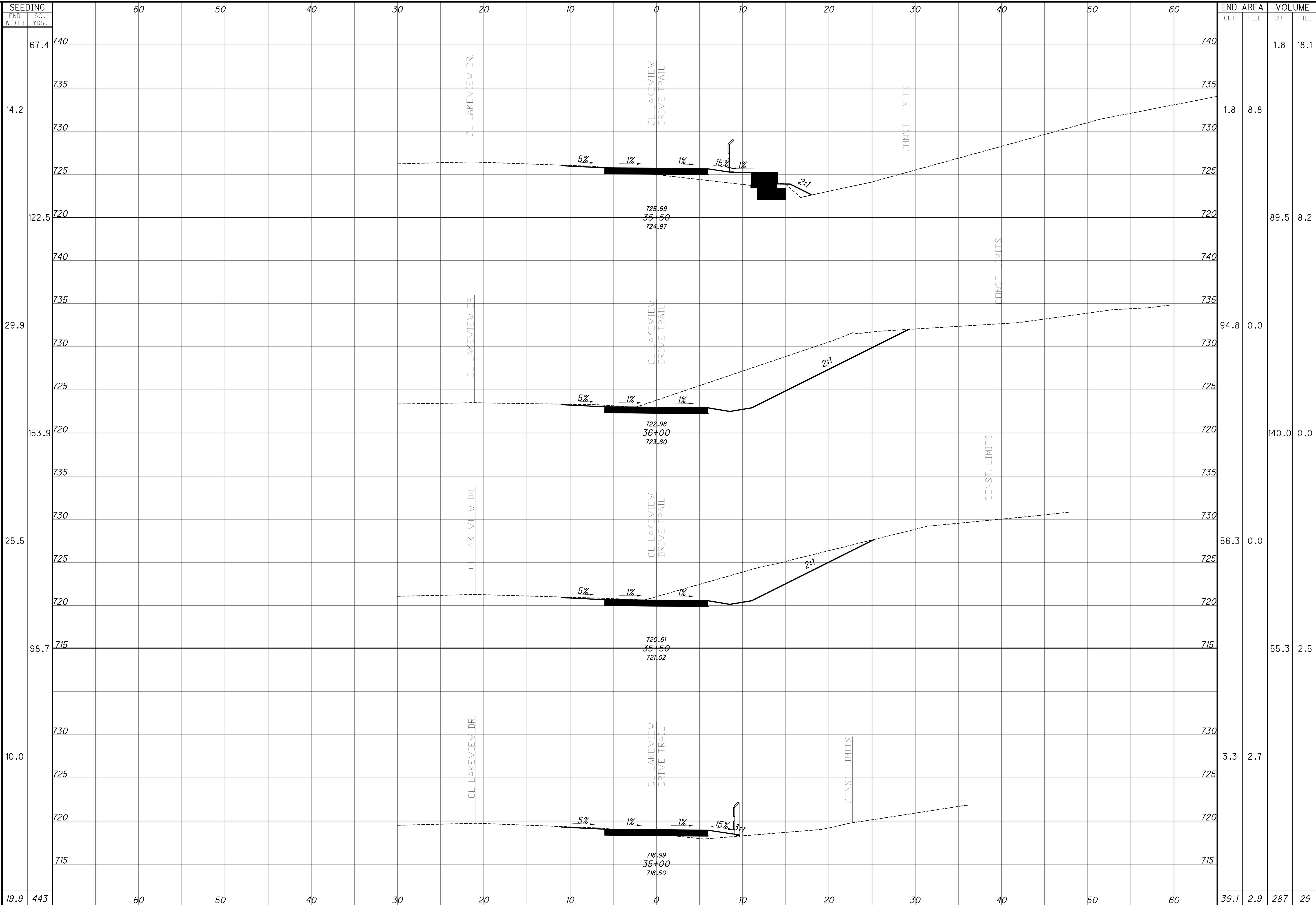
REVIEWER  
 SCR 4/1/2024

PROJECT ID  
 117016

SHEET TOTAL  
 P.84 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 35+00.00 TO STA. 36+50.00

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 SCR

REVIEWER  
 SCR 4/1/2024

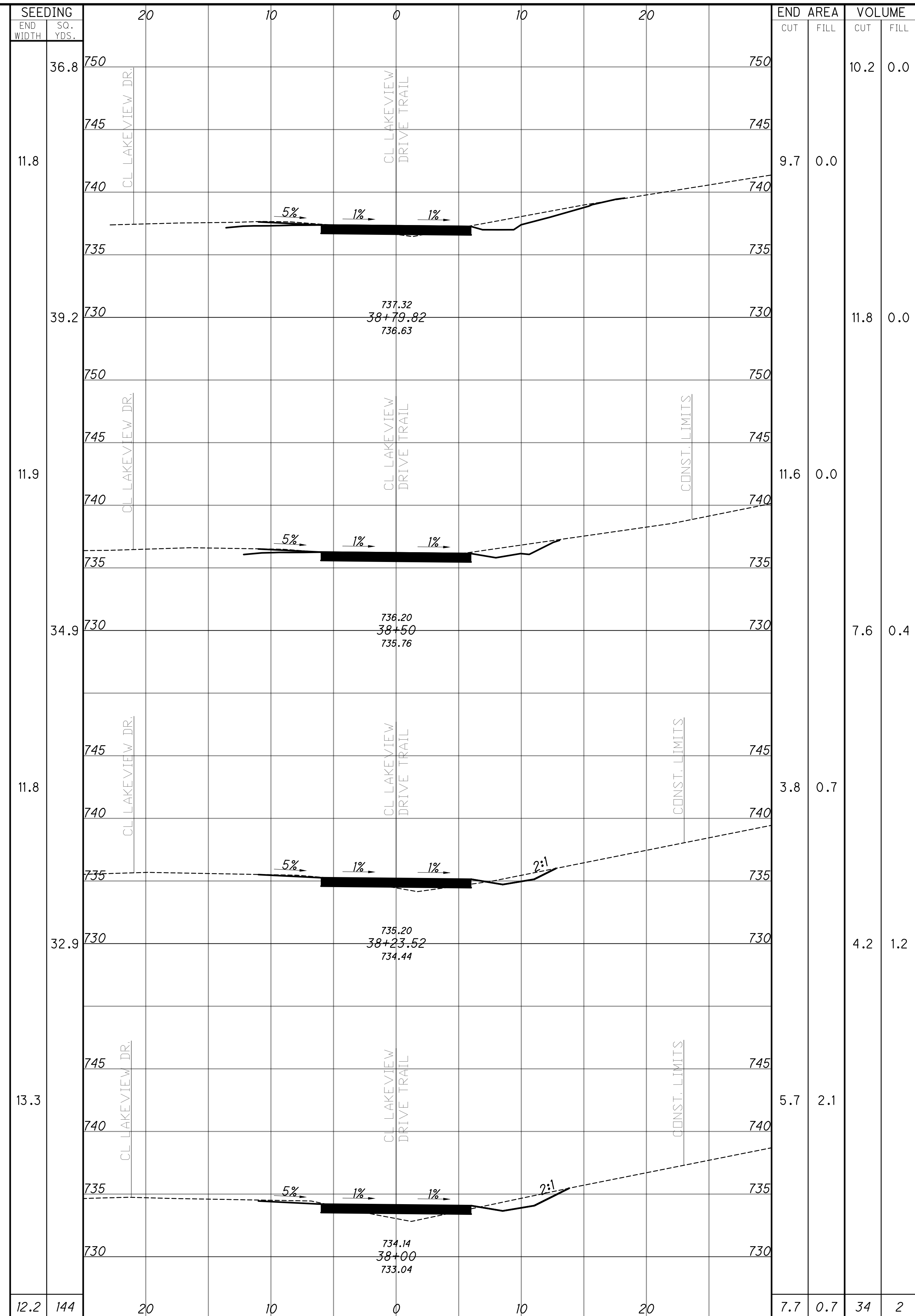
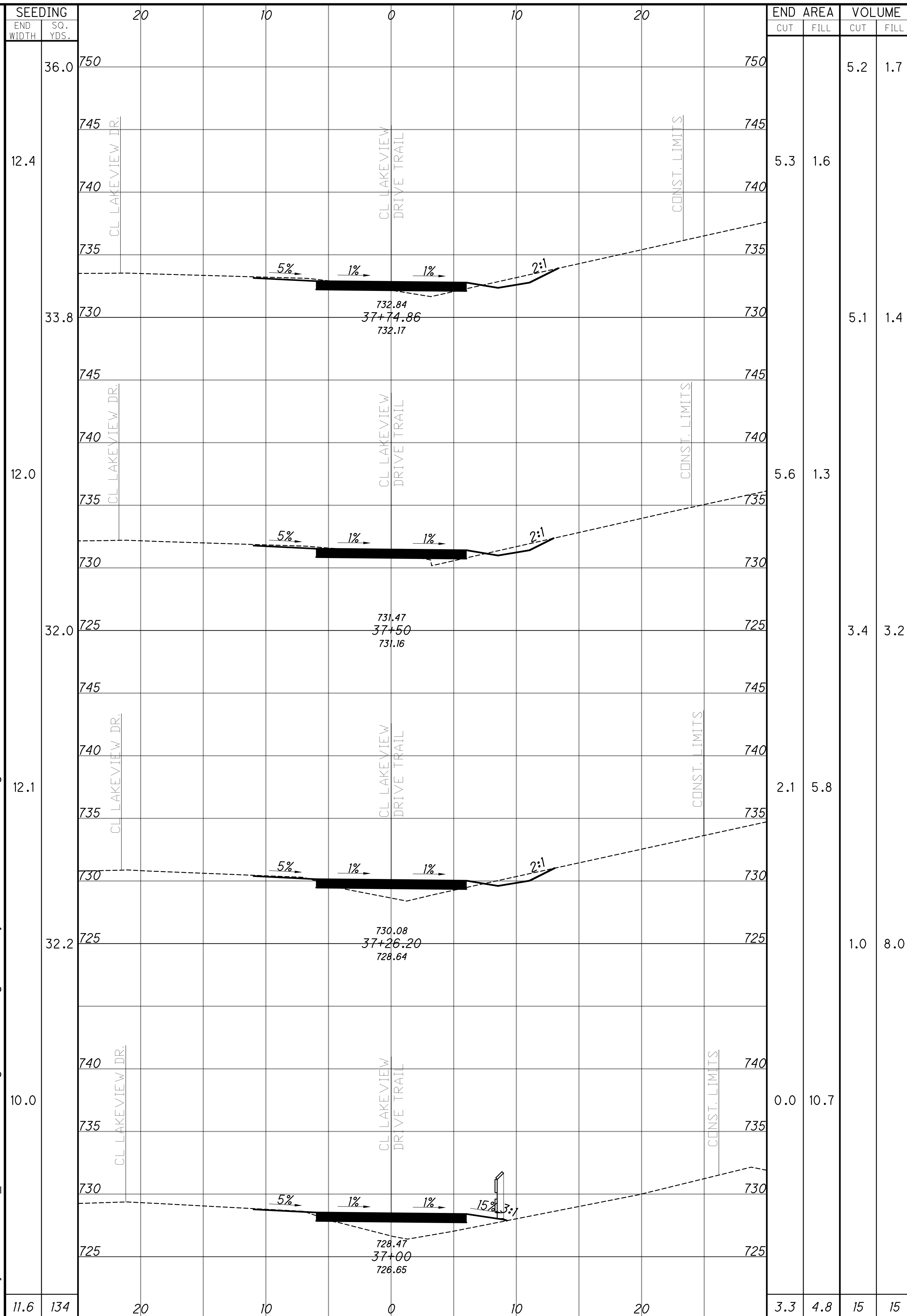
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SHEET TOTAL  
 P.85 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS- LAKEVIEW DRIVE  
STA. 37+00.00 TO STA. 38+79.82

DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

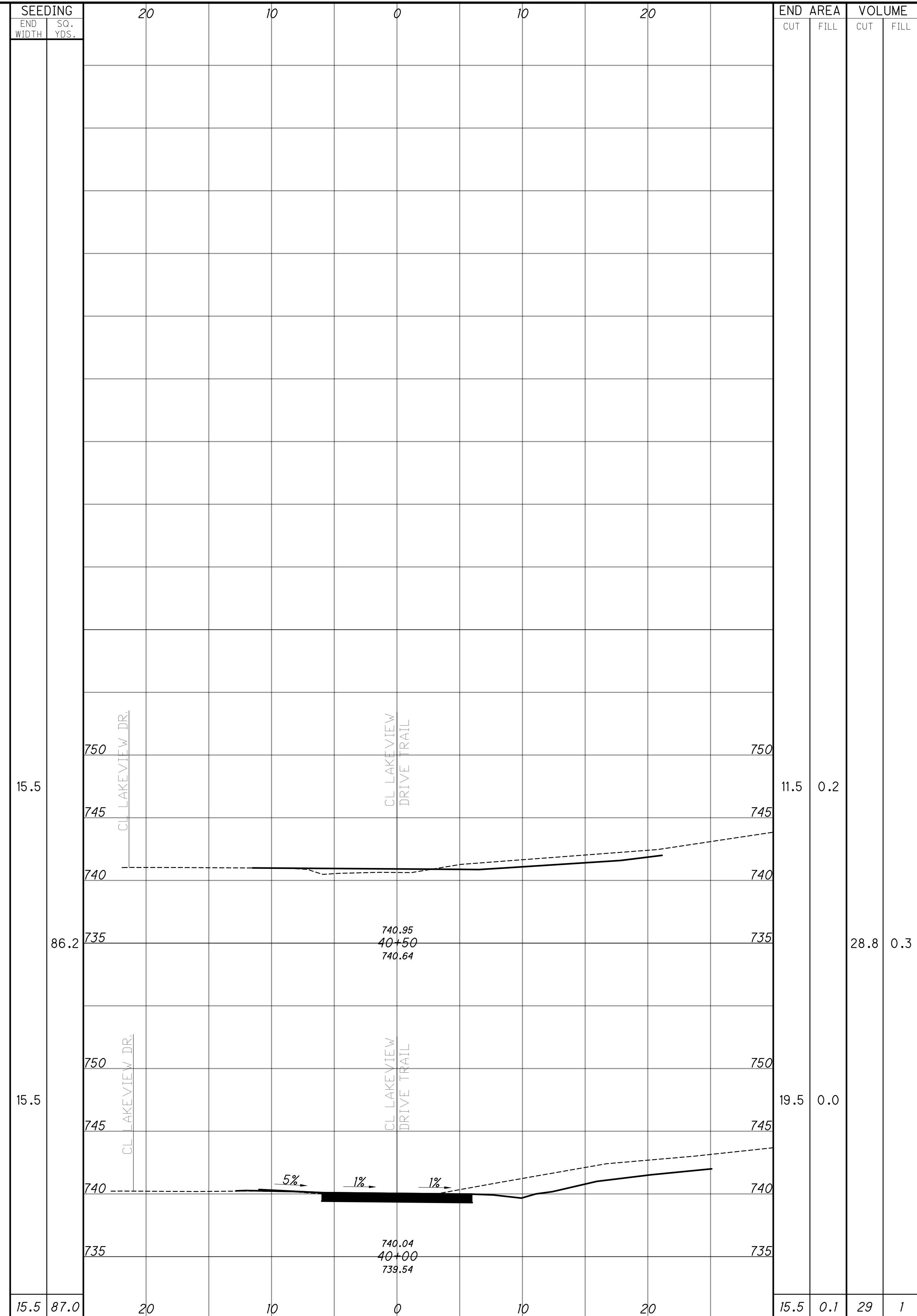
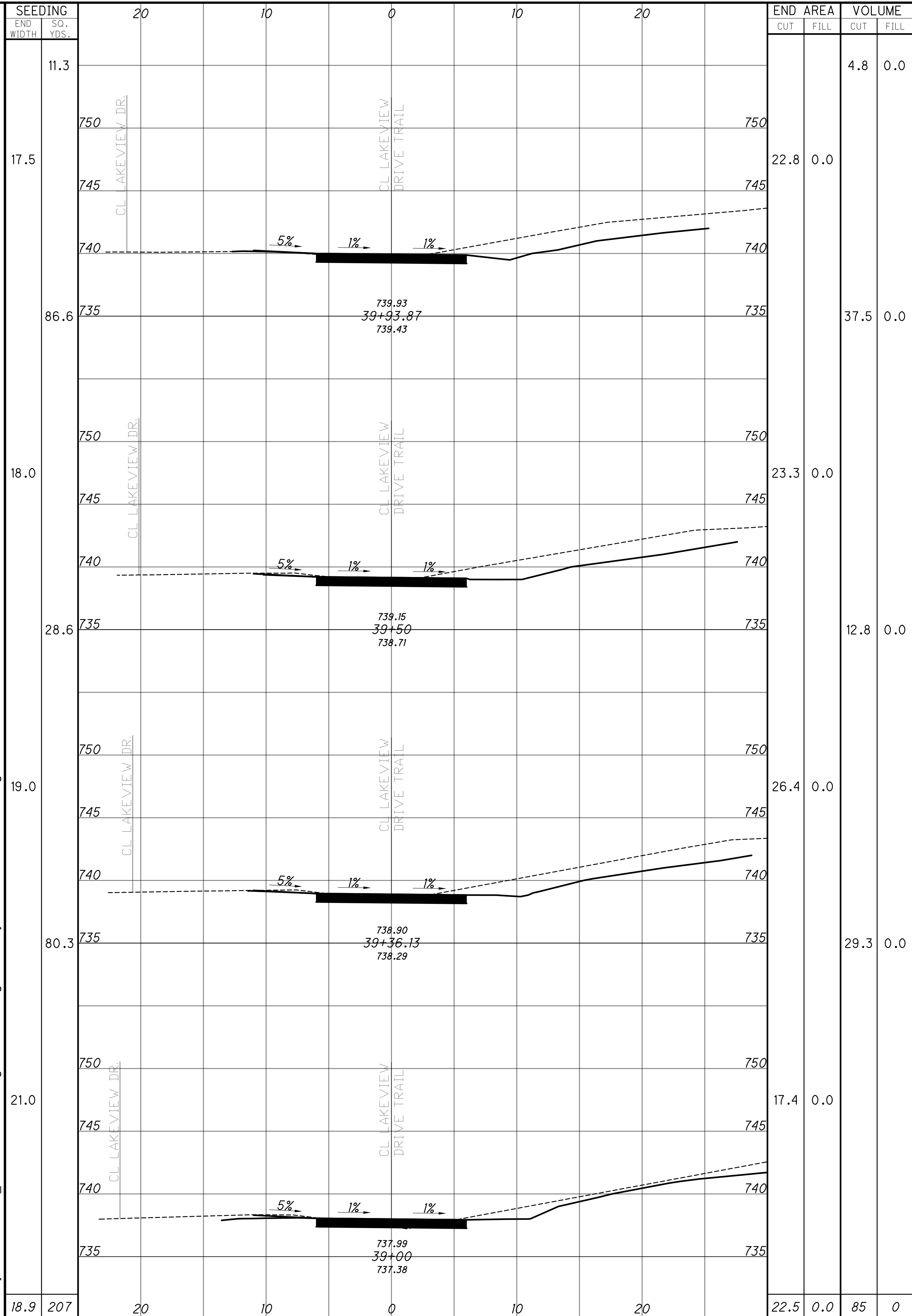
REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

SHEET TOTAL  
P.86 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - LAKEVIEW DRIVE  
STA. 39+00.00 TO STA. 40+50.00

DESIGN AGENCY  
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FAX 513 621 6530

DESIGNER  
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REVIEWER  
SCR 4/1/2024

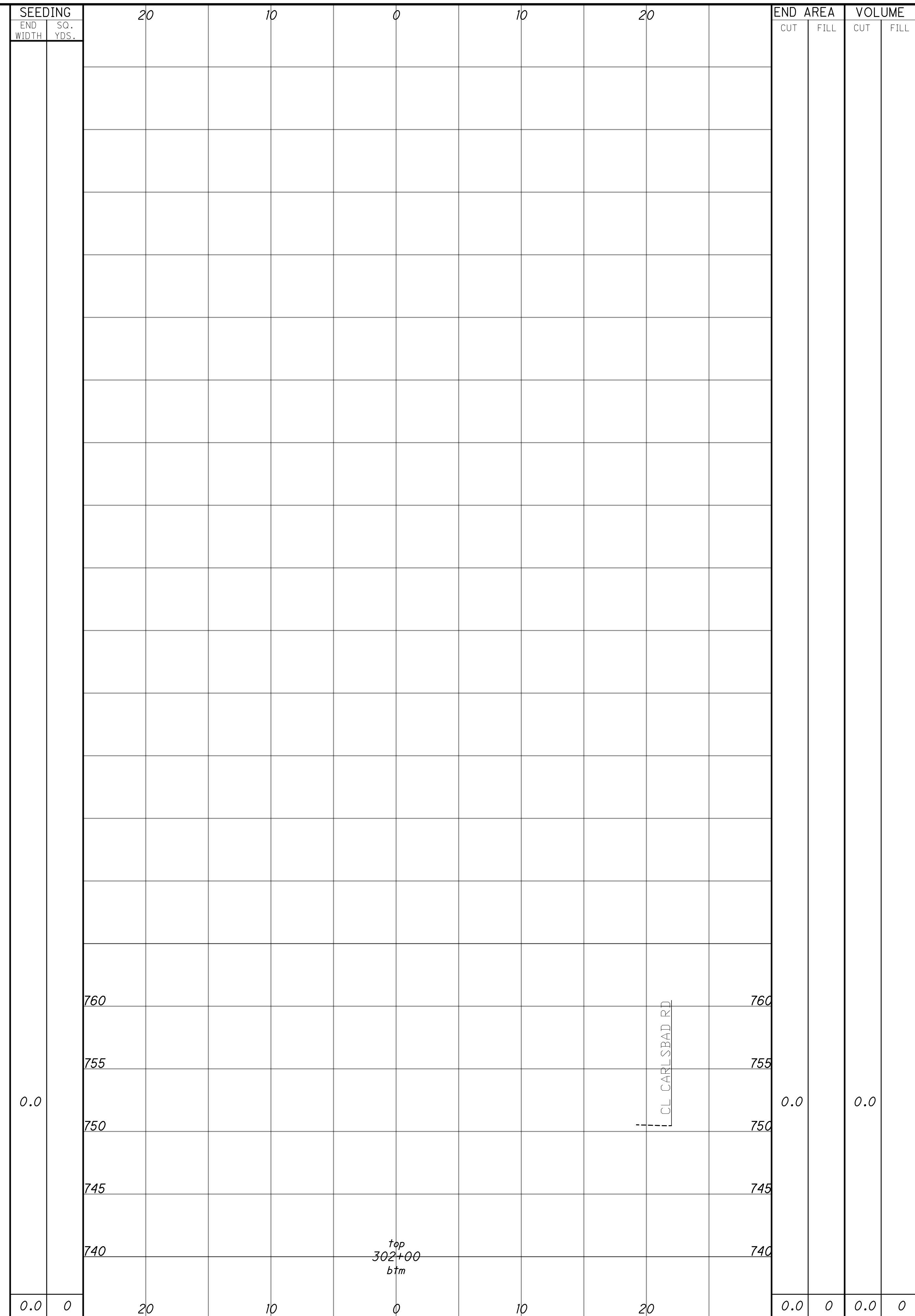
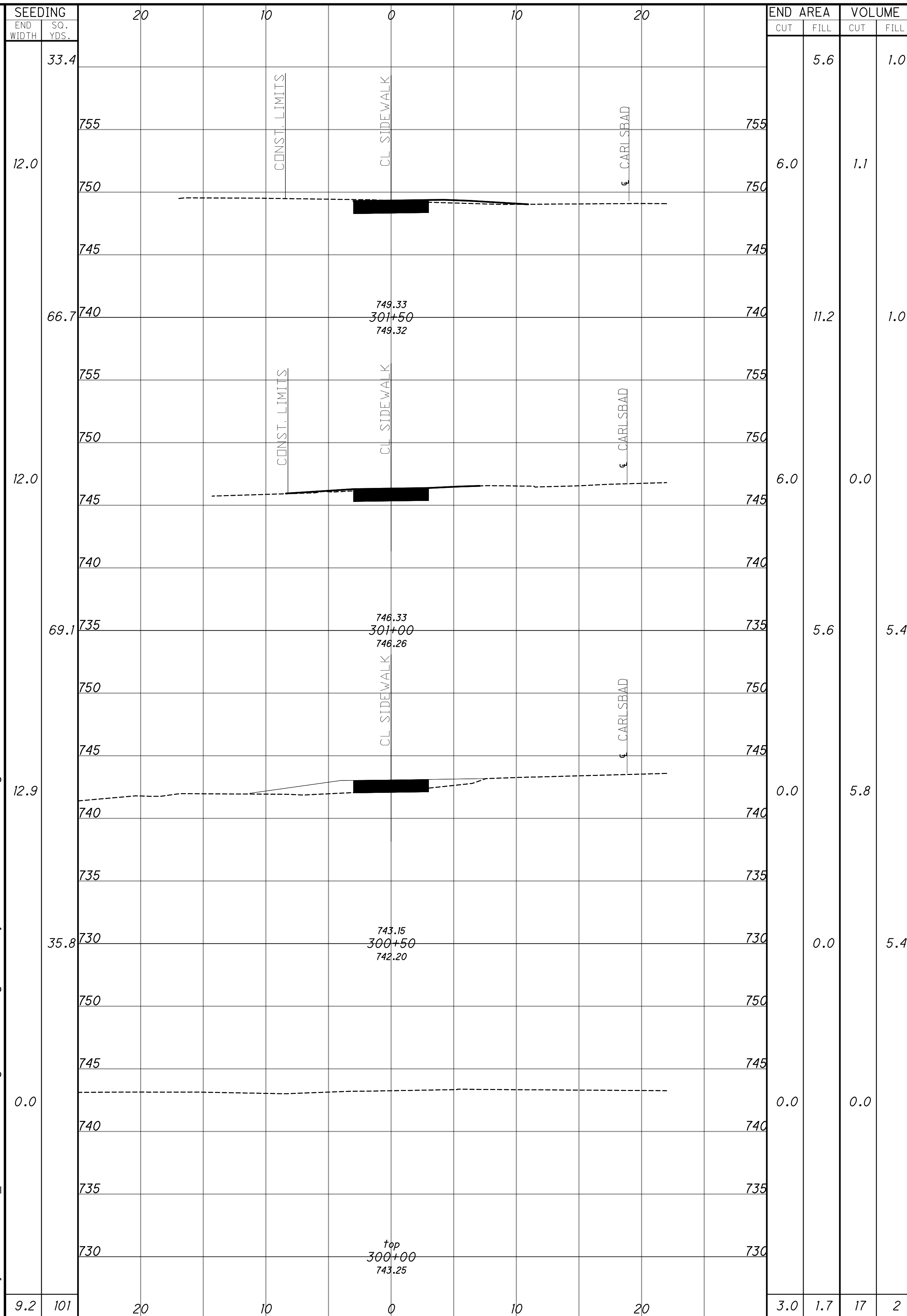
PROJECT ID  
117016

SHEET TOTAL  
P.87 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - CARLSBAD ROAD  
STA. 300+00.00 TO STA. 302+00.00

DESIGN AGENCY  
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DESIGNER  
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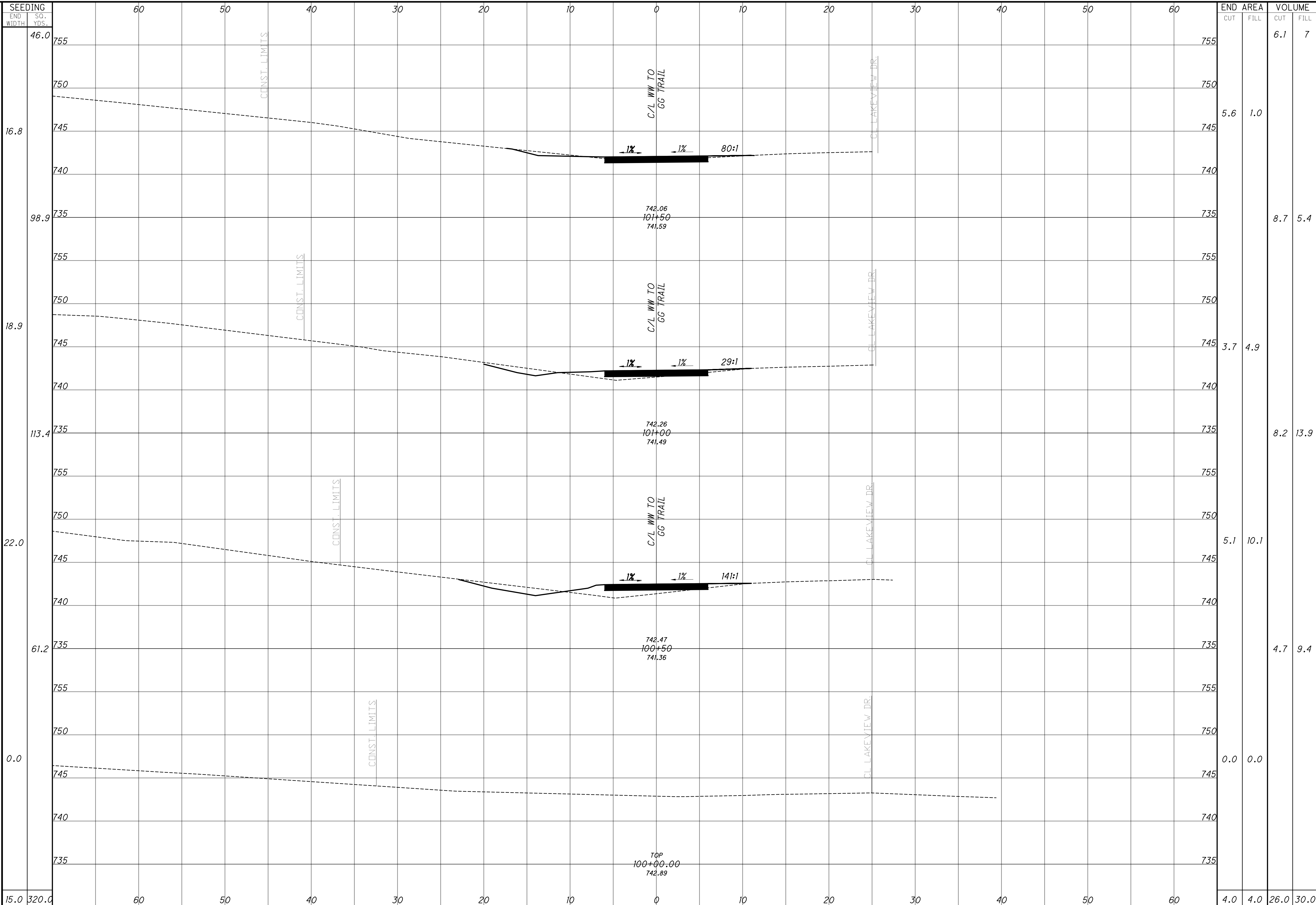
REVIEWER  
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PROJECT ID  
 117016

SHEET TOTAL  
 P.88 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
46.0			6.1	7
16.8	5.6	1.0		
98.9			8.7	5.4
18.9	3.7	4.9		
113.4			8.2	13.9
22.0	5.1	10.1		
61.2			4.7	9.4
0.0	0.0	0.0		
15.0	4.0	4.0	26.0	30.0

CROSS SECTIONS - WW TO GG  
STA. 100+00.00 TO STA. 101+50.00

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DESIGNER  
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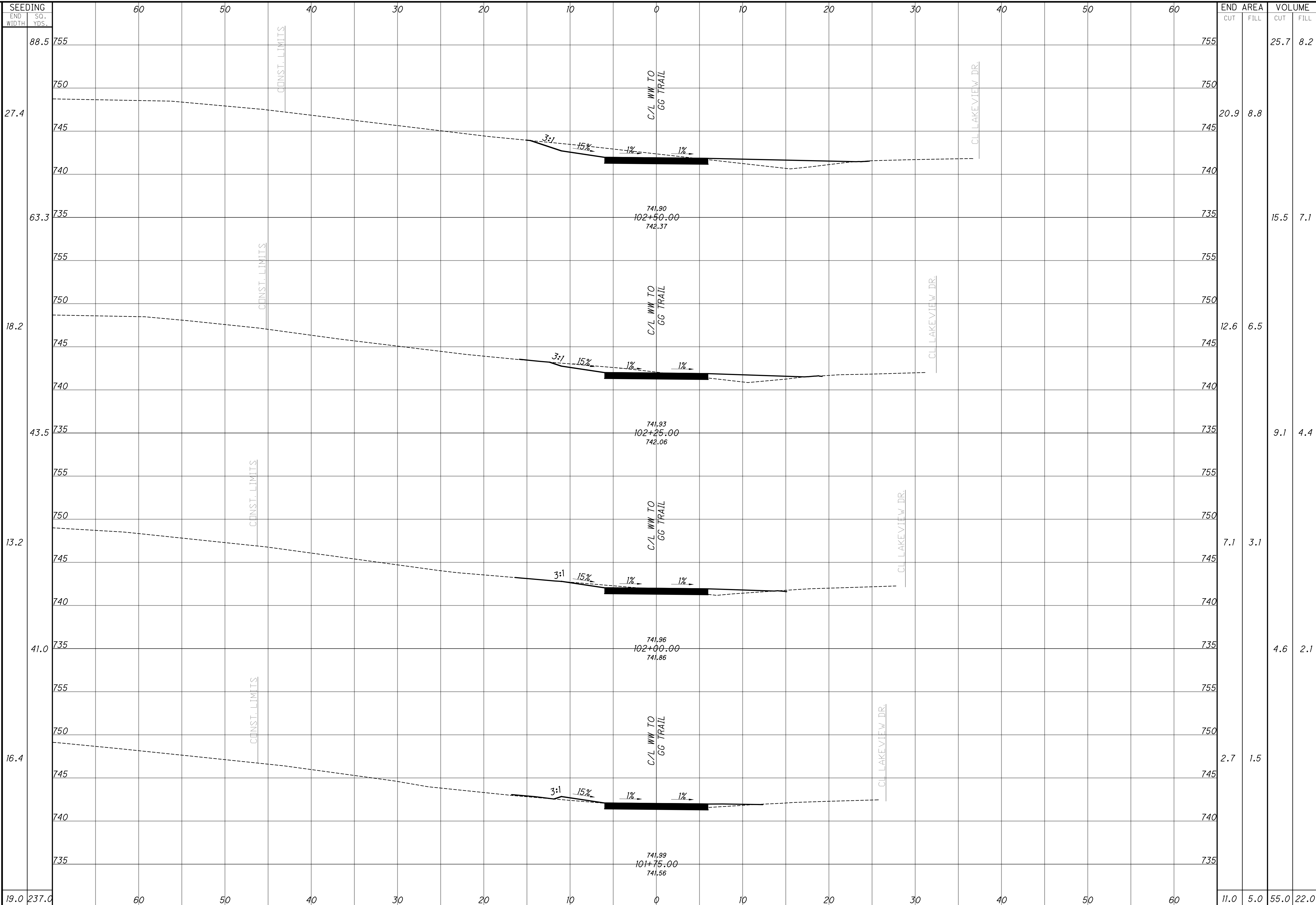
PROJECT ID  
 117016

SHEET TOTAL  
 P.89 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 101+75.00 TO STA. 102+50.00

DESIGN AGENCY  
**KZFJ-SIGN**  
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 700 Broadway Street  
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DESIGNER  
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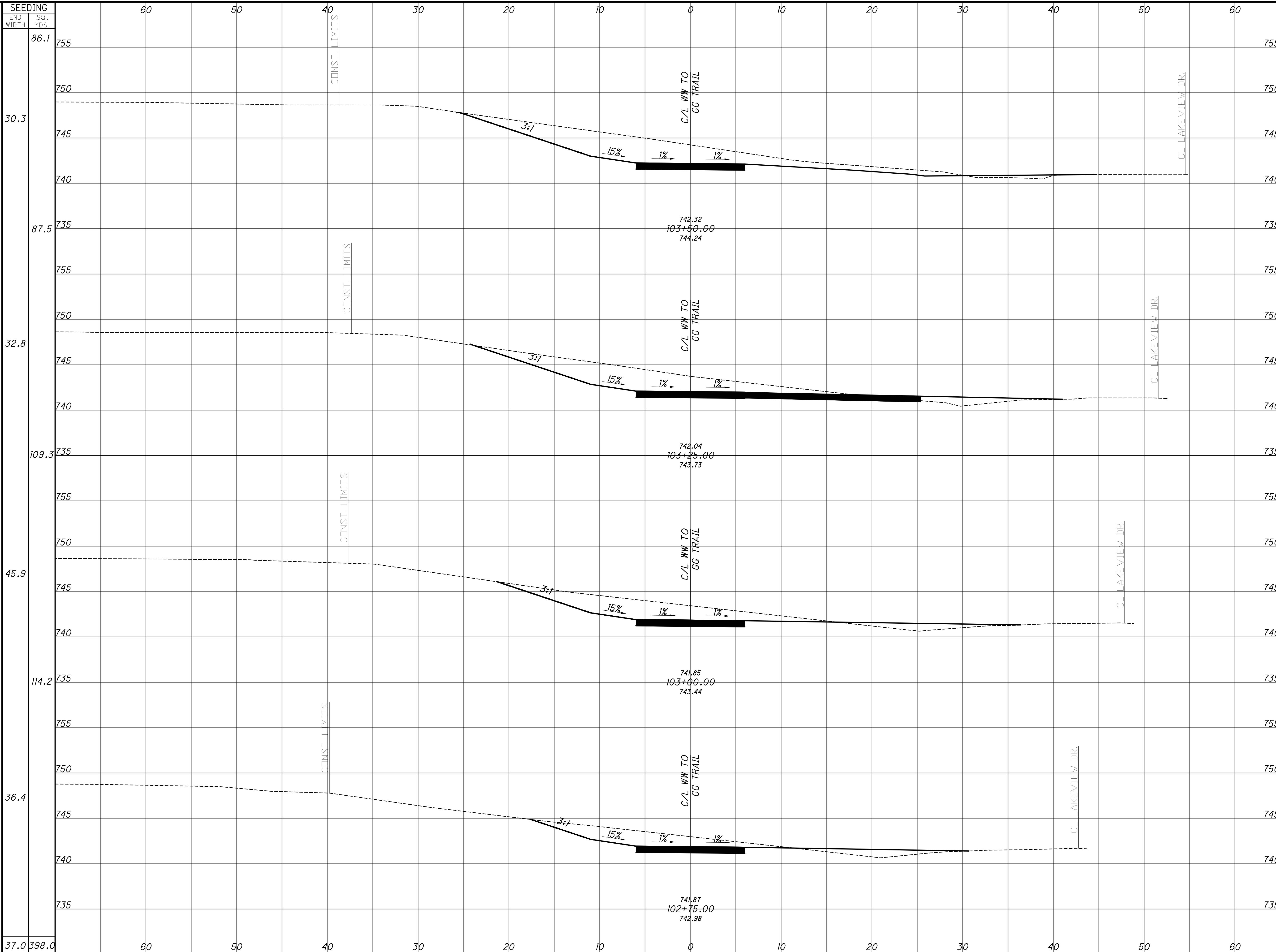
REVIEWER  
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PROJECT ID  
 117016

SHEET TOTAL  
 P.90 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
86.1	755	72.1	0.0		
30.3	750	73.4	0.0		
87.5	735	70.9	3.6		
32.8	750	79.5	7.6		
109.3	735	63.0	7.5		
45.9	750	56.7	8.5		
114.2	735	42.3	8.0		
36.4	750	34.6	8.9		
37.0	735	62.0	6.0	249.0	20.0

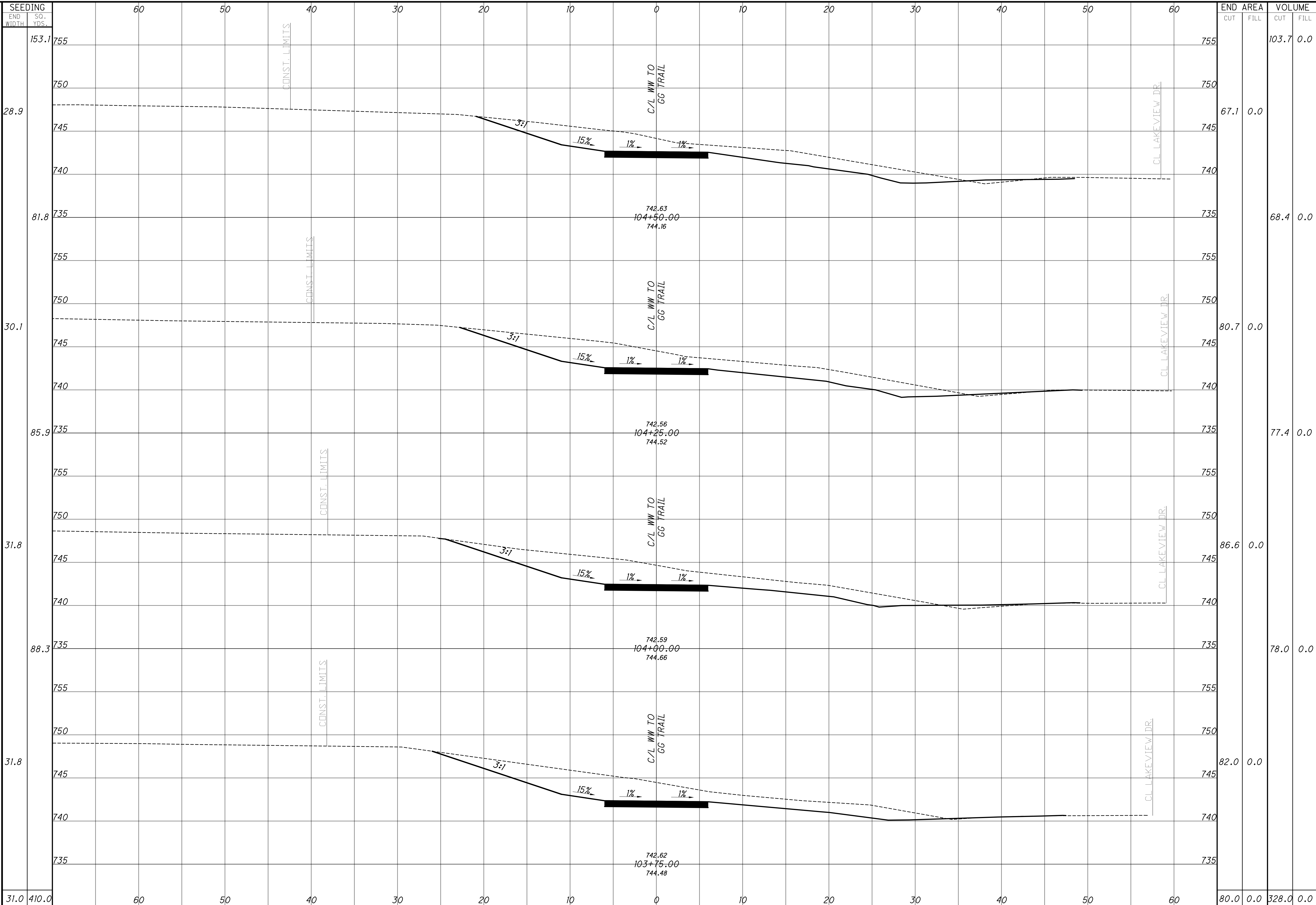
CROSS SECTIONS - WW TO GG  
STA. 102+75.00 TO STA. 103+50.00

DESIGN AGENCY	<b>KZFJ-SIG</b> Designing Better Futures
DESIGNER	SCR
REVIEWER	SCR 4/1/2024
PROJECT ID	117016
SHEET	TOTAL
P.91	210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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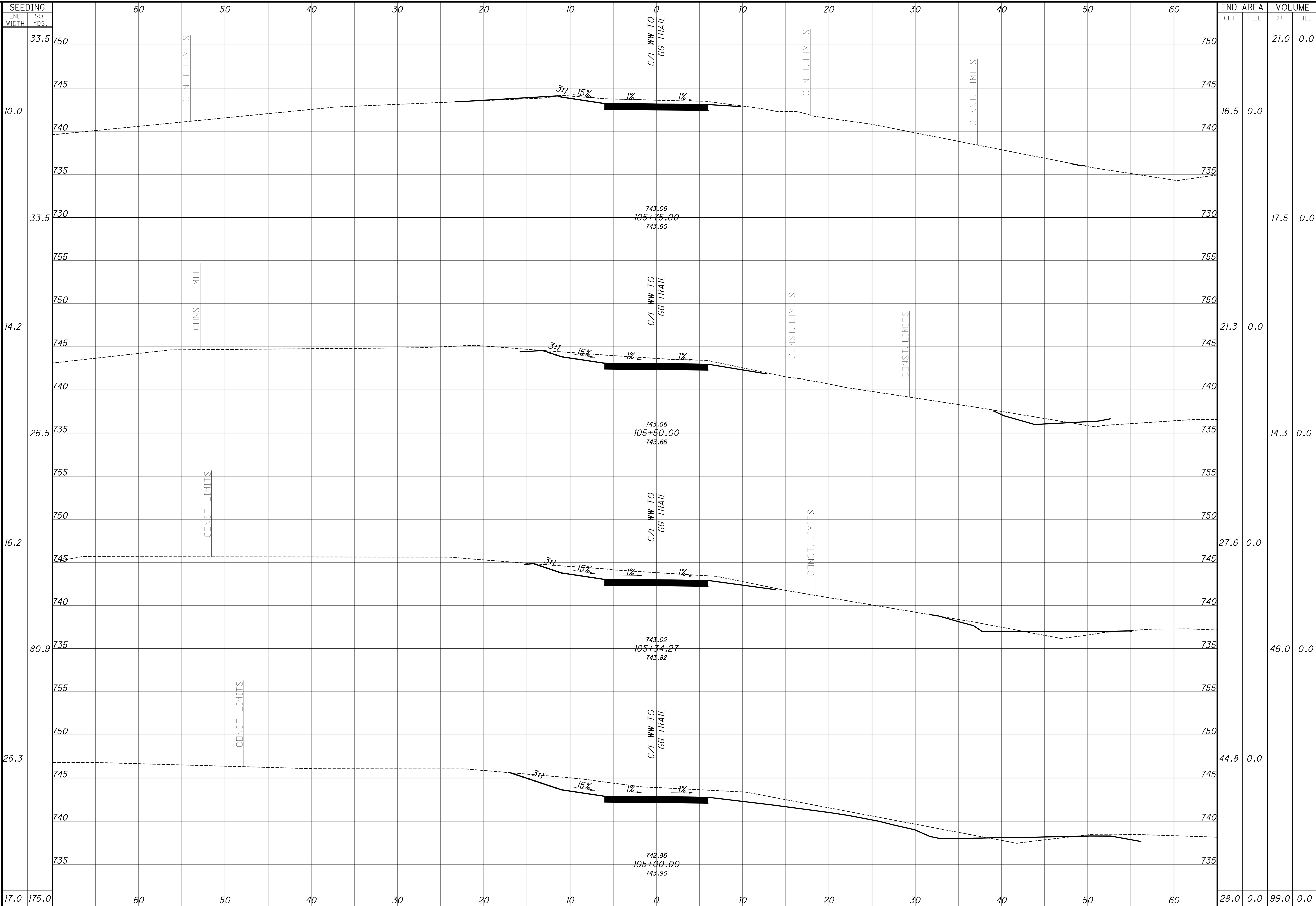
SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
153.1	755	755	755	103.7	0.0
28.9	750	750	750	67.1	0.0
81.8	745	745	745	68.4	0.0
30.1	740	740	740	80.7	0.0
85.9	735	735	735	77.4	0.0
31.8	755	755	755	86.6	0.0
88.3	750	750	750	78.0	0.0
31.8	745	745	745	82.0	0.0
31.0	740	740	740	80.0	0.0
410.0	735	735	735	328.0	0.0

CROSS SECTIONS - WW TO GG  
STA. 103+75.00 TO STA. 104+50.00

DESIGN AGENCY	<b>KZFJ-SIG</b> Designing Better Futures
DESIGNER	SCR
REVIEWER	SCR 4/1/2024
PROJECT ID	117016
SHEET	TOTAL
P.92	210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	
END WIDTH	SO. YDS.
17.0	175.0

END AREA		VOLUME	
CUT	FILL	CUT	FILL
21.0	0.0	21.0	0.0
16.5	0.0	16.5	0.0
17.5	0.0	17.5	0.0
21.3	0.0	21.3	0.0
14.3	0.0	14.3	0.0
27.6	0.0	27.6	0.0
46.0	0.0	46.0	0.0
44.8	0.0	44.8	0.0
28.0	0.0	99.0	0.0

CROSS SECTIONS - WW TO GG  
STA. 105+00.00 TO STA. 105+75.00

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 SCR

REVIEWER  
 SCR 4/1/2024

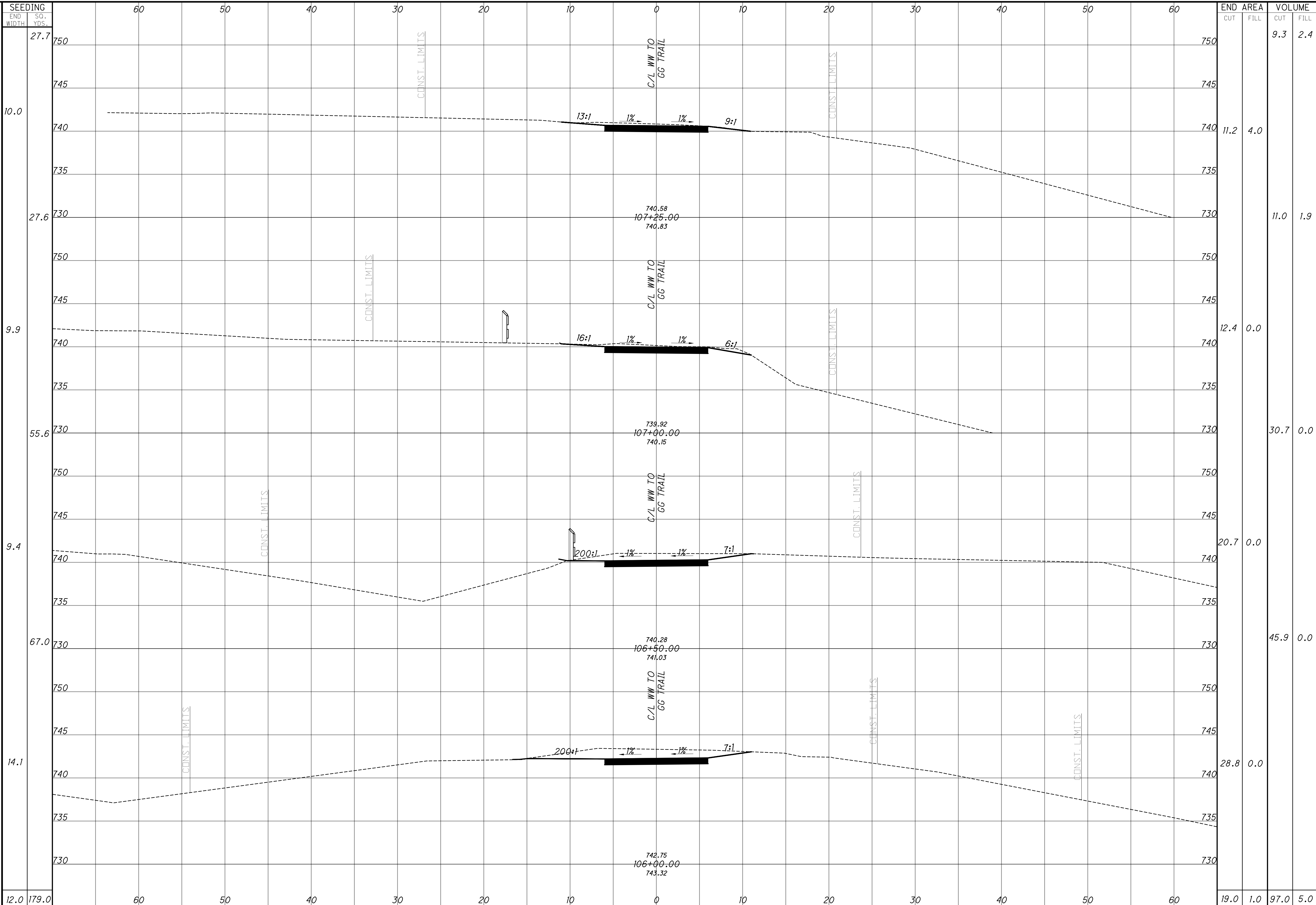
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SHEET TOTAL  
 P.93 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 106+00.00 TO STA. 107+25.00

DESIGN AGENCY  
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 700 Broadway Street  
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DESIGNER  
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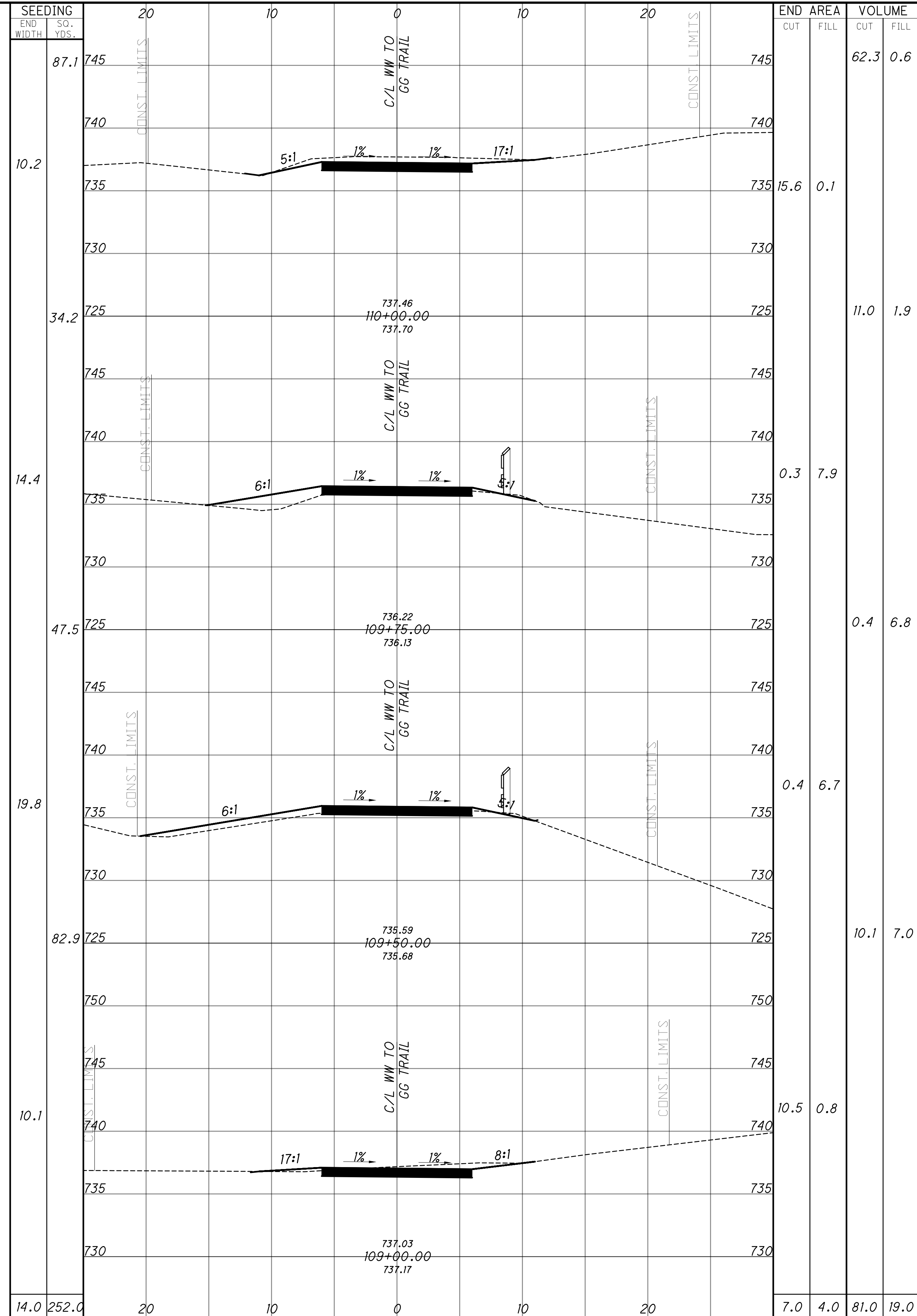
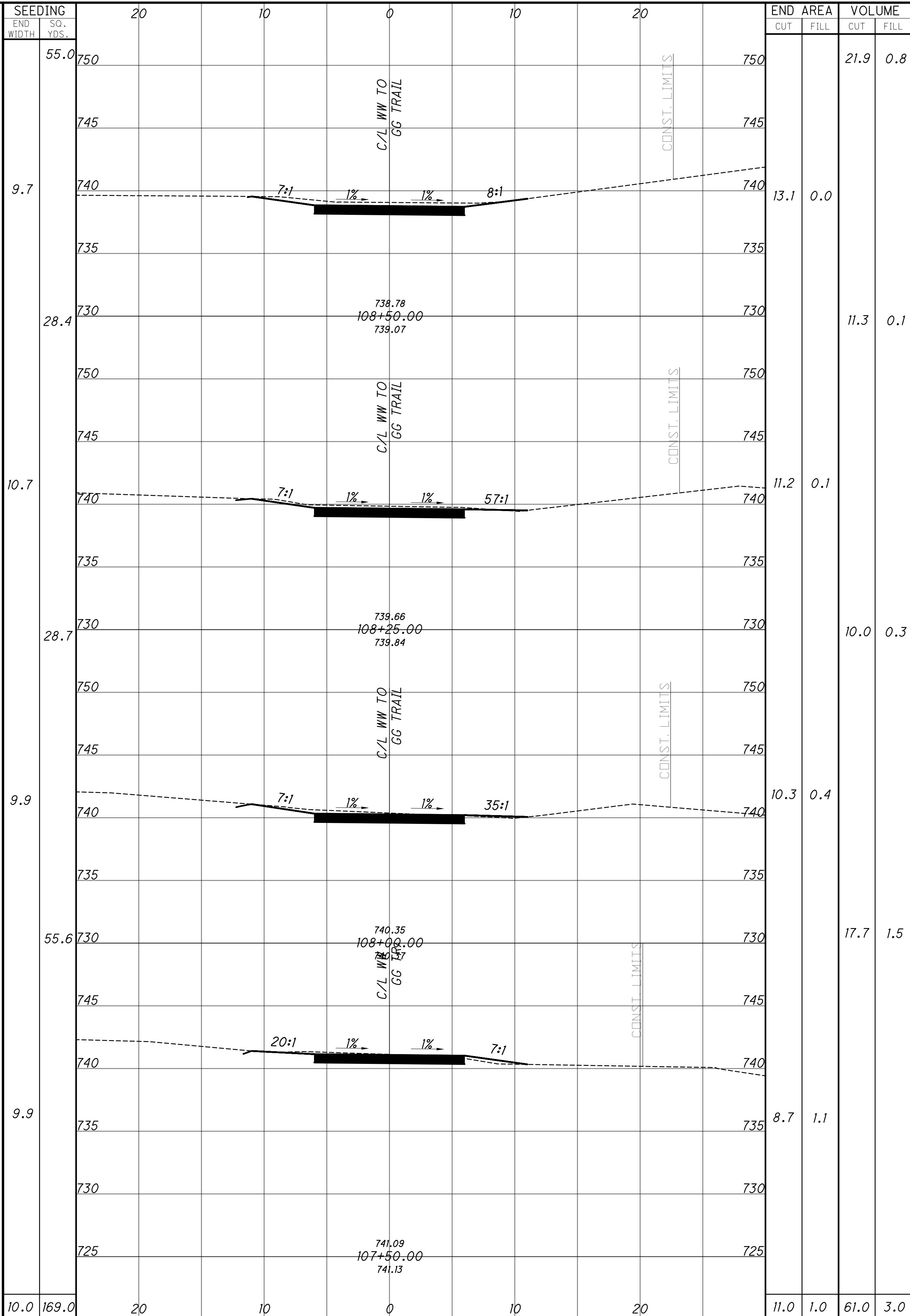
REVIEWER  
 SCR 4/1/2024

PROJECT ID  
 117016

SHEET TOTAL  
 P.94 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 107+50.00 TO STA. 110+00.00

DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
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TEL 513 621 6211  
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DESIGNER  
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REVIEWER  
SCR 4/1/2024

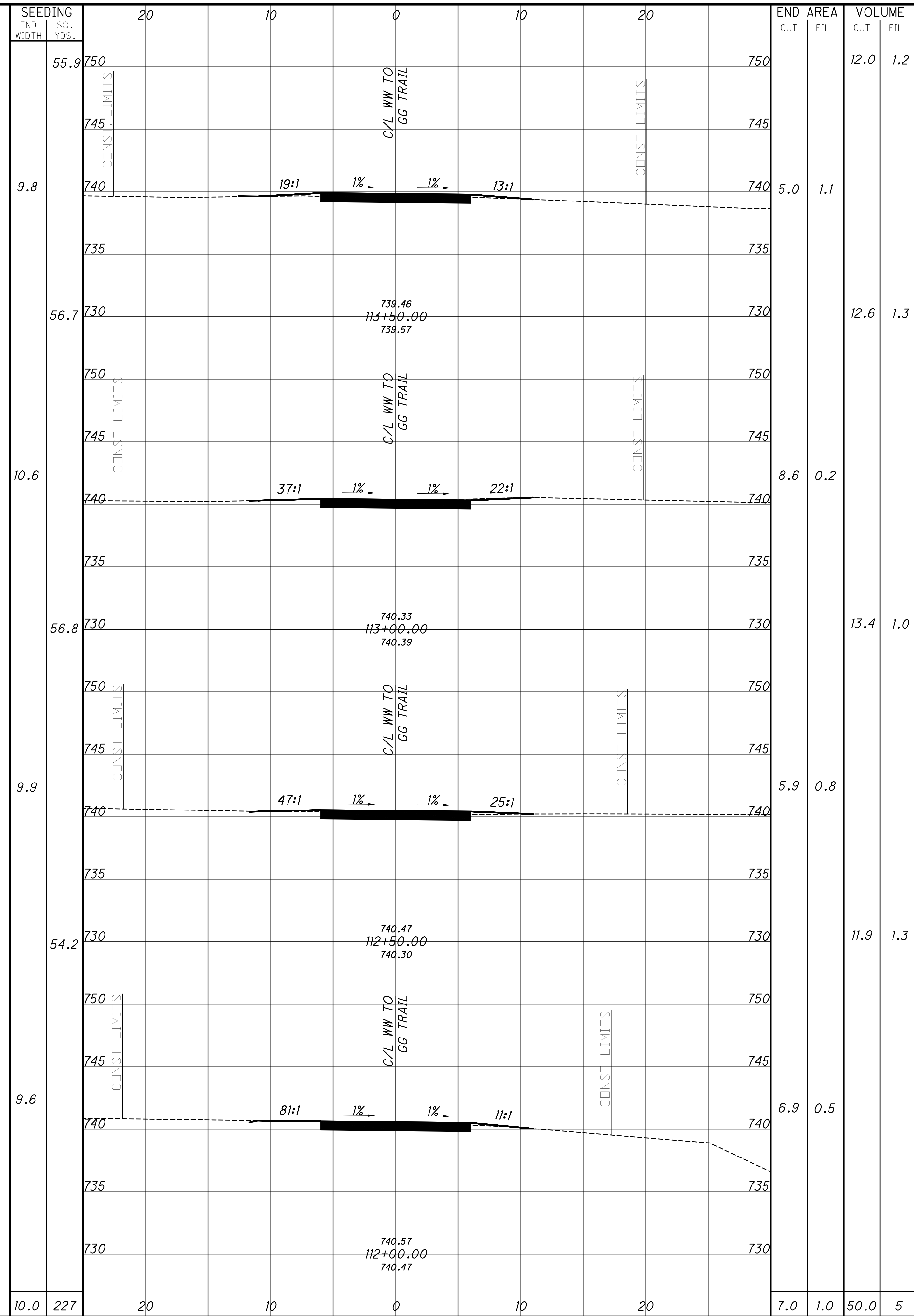
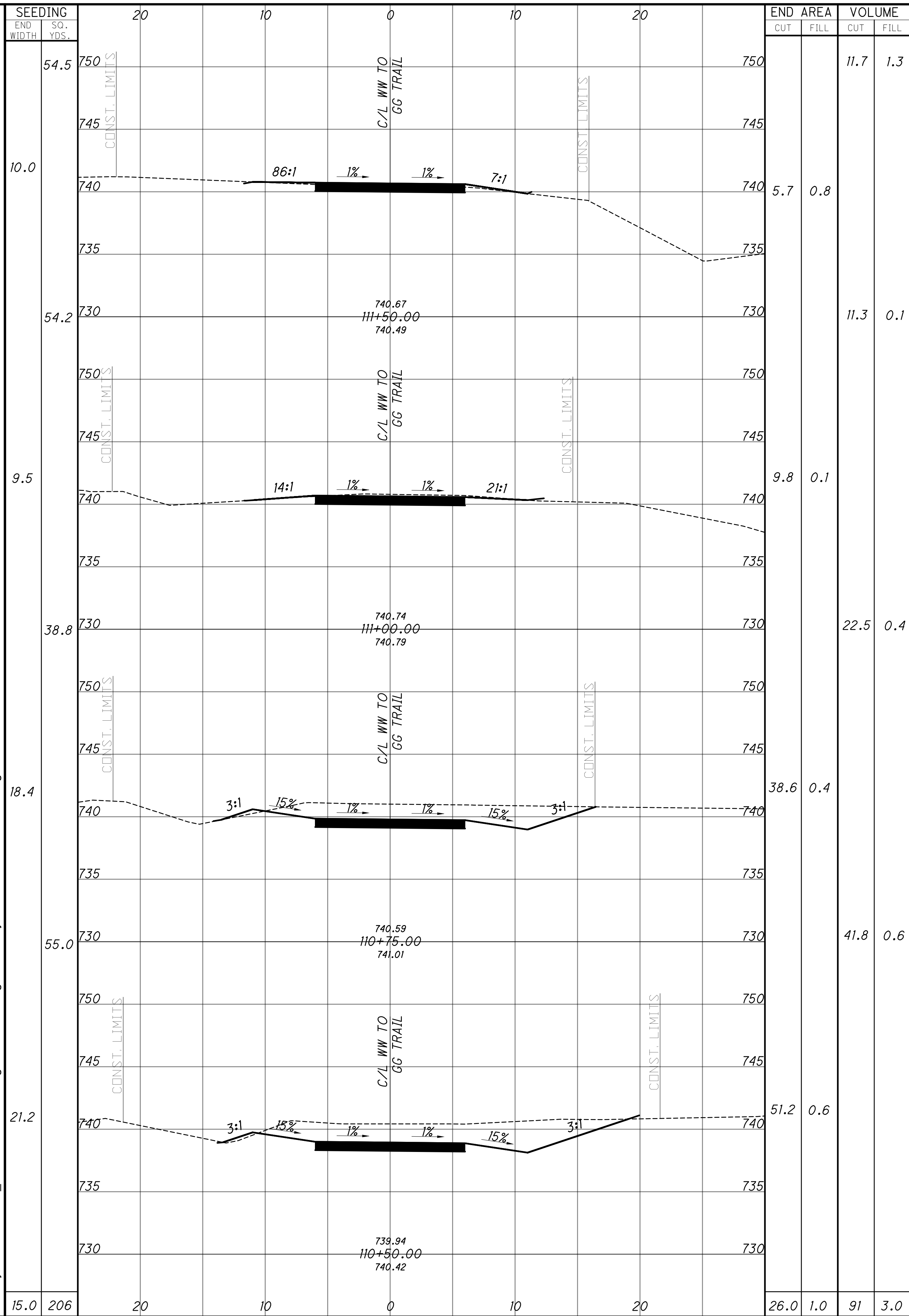
PROJECT ID  
117016

SHEET TOTAL  
P.95 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
 STA. 110+50.00 TO STA. 113+50.00

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PROJECT ID  
 117016

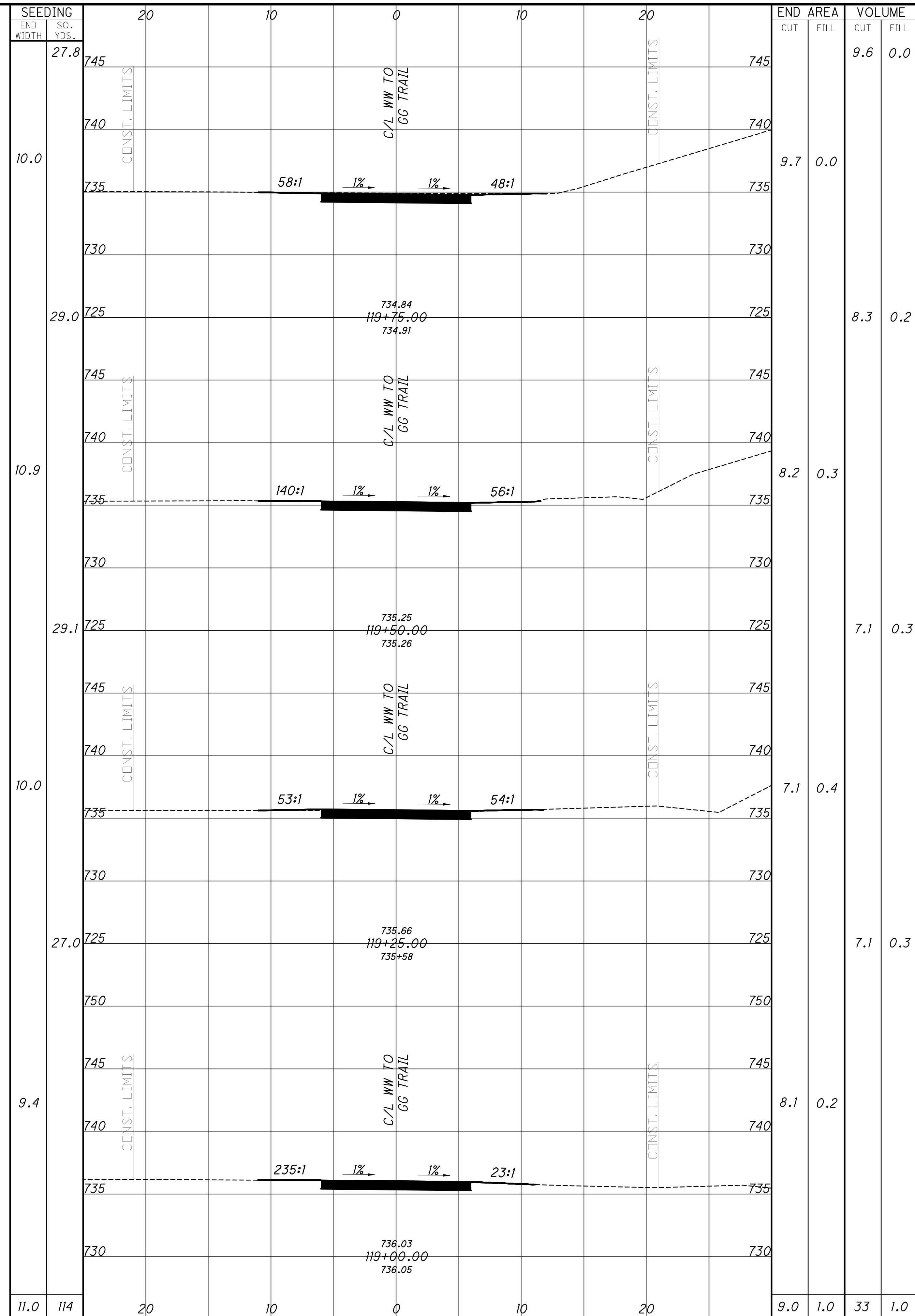
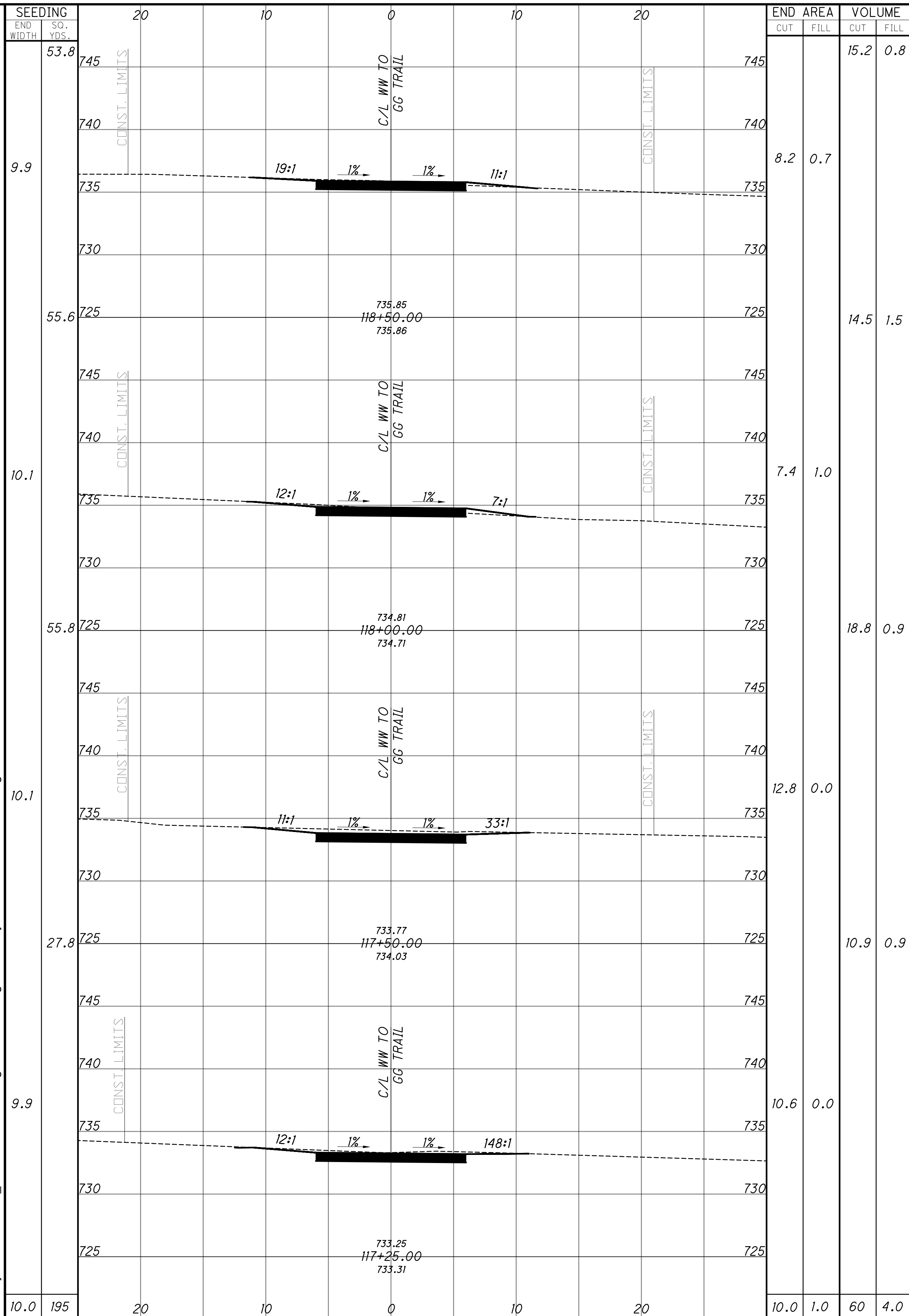
SHEET TOTAL  
 P.96 210





HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 117+25.00 TO STA. 119+75.00

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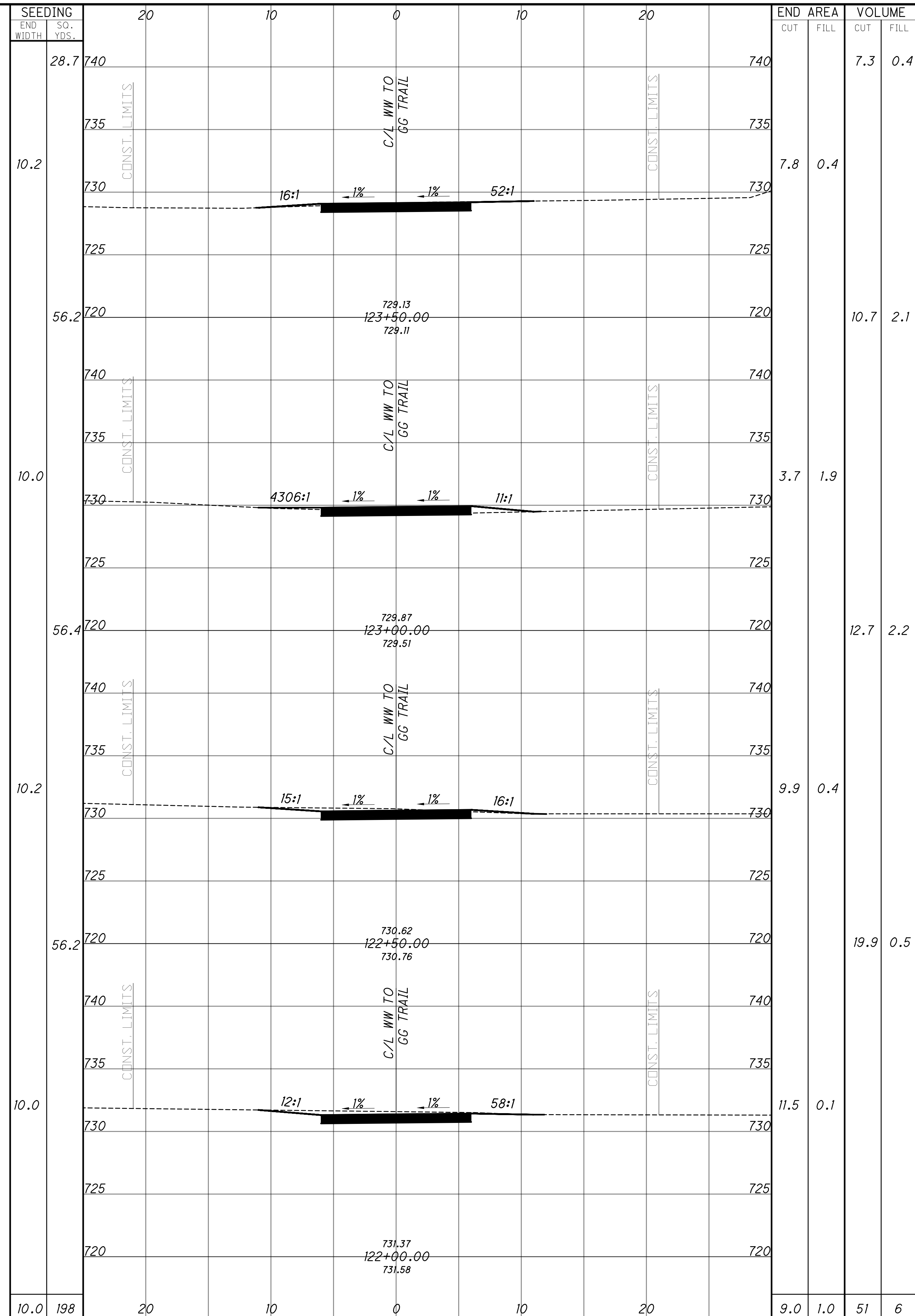
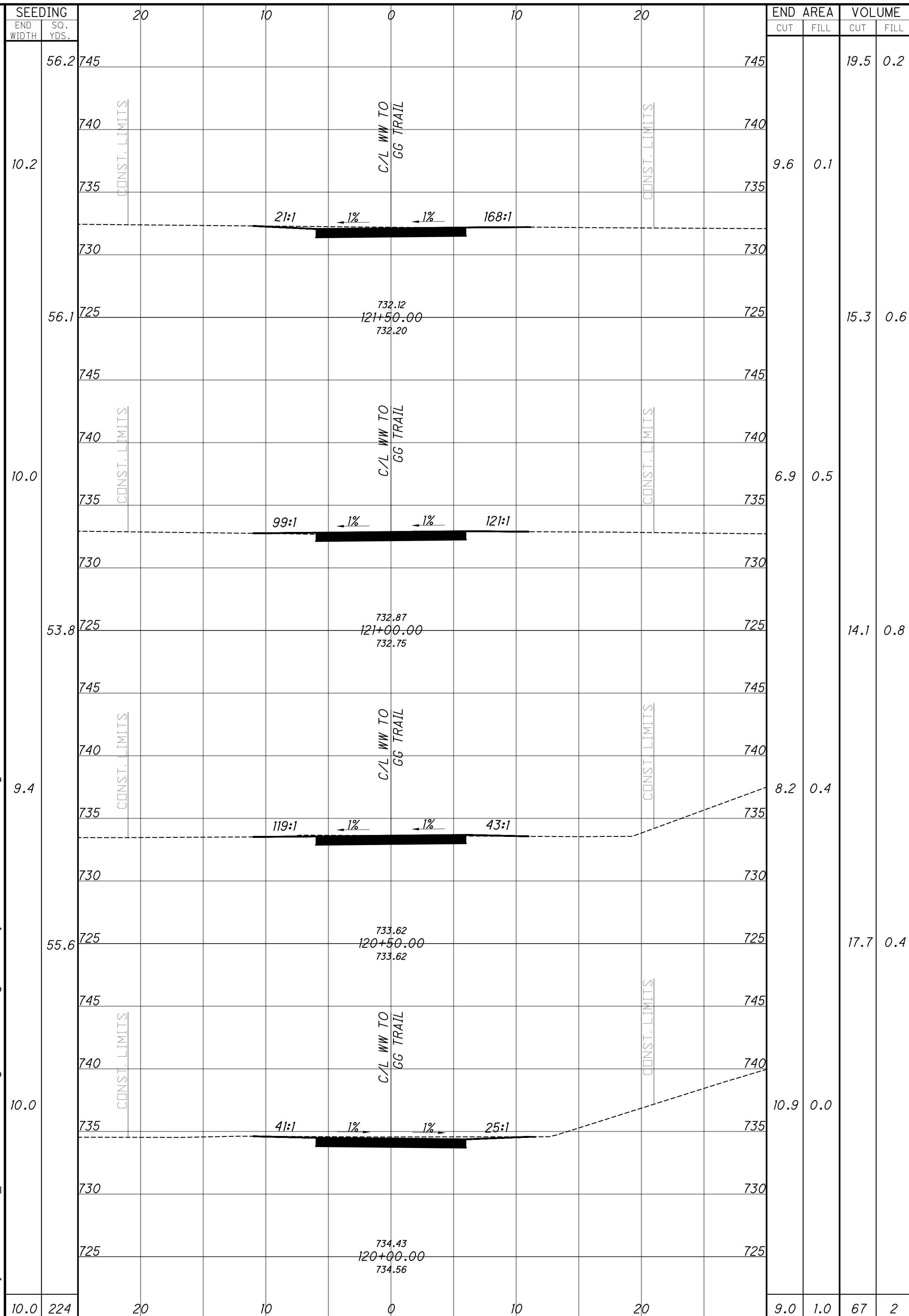
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PROJECT ID  
 117016

SHEET TOTAL  
 P.98 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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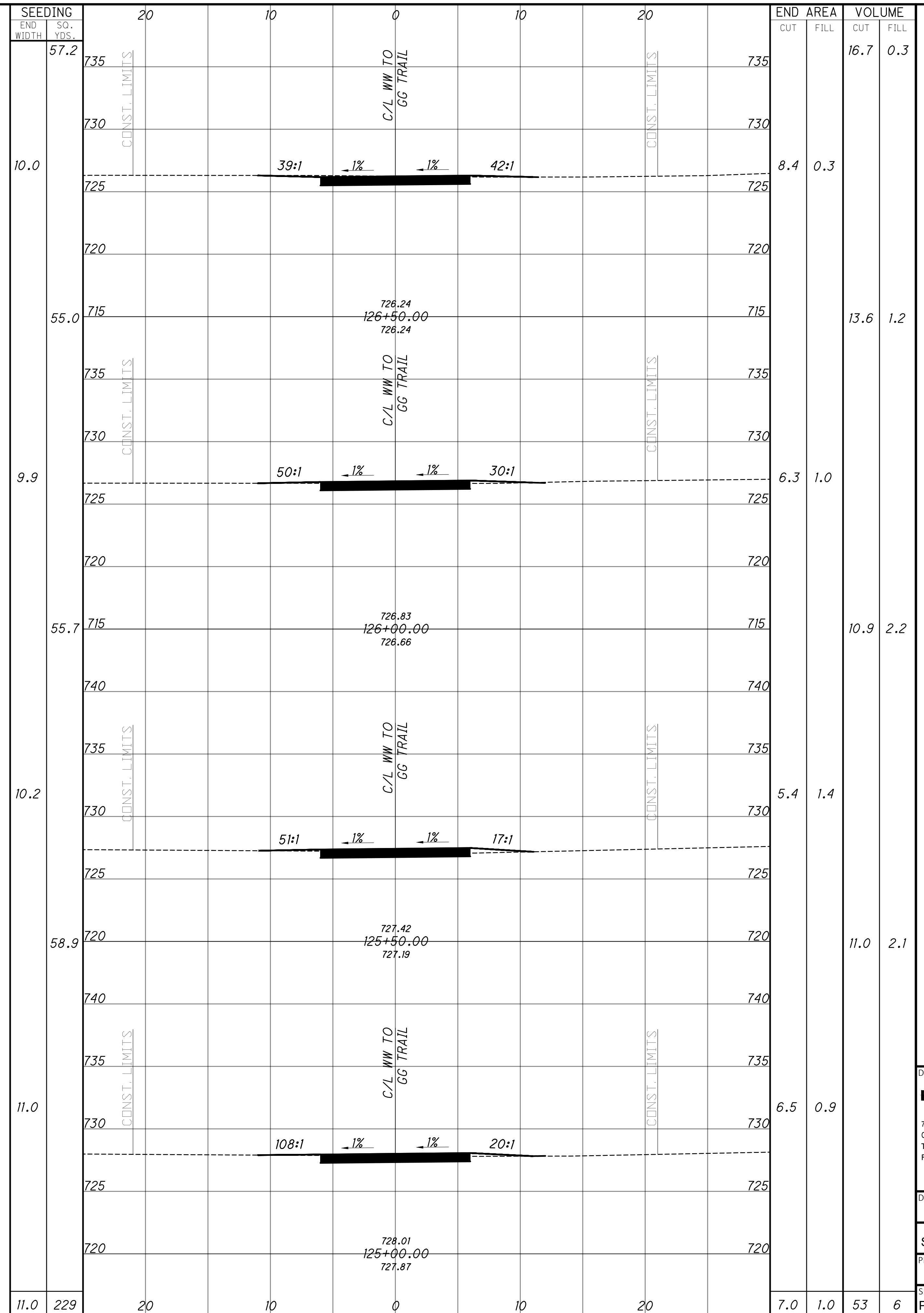
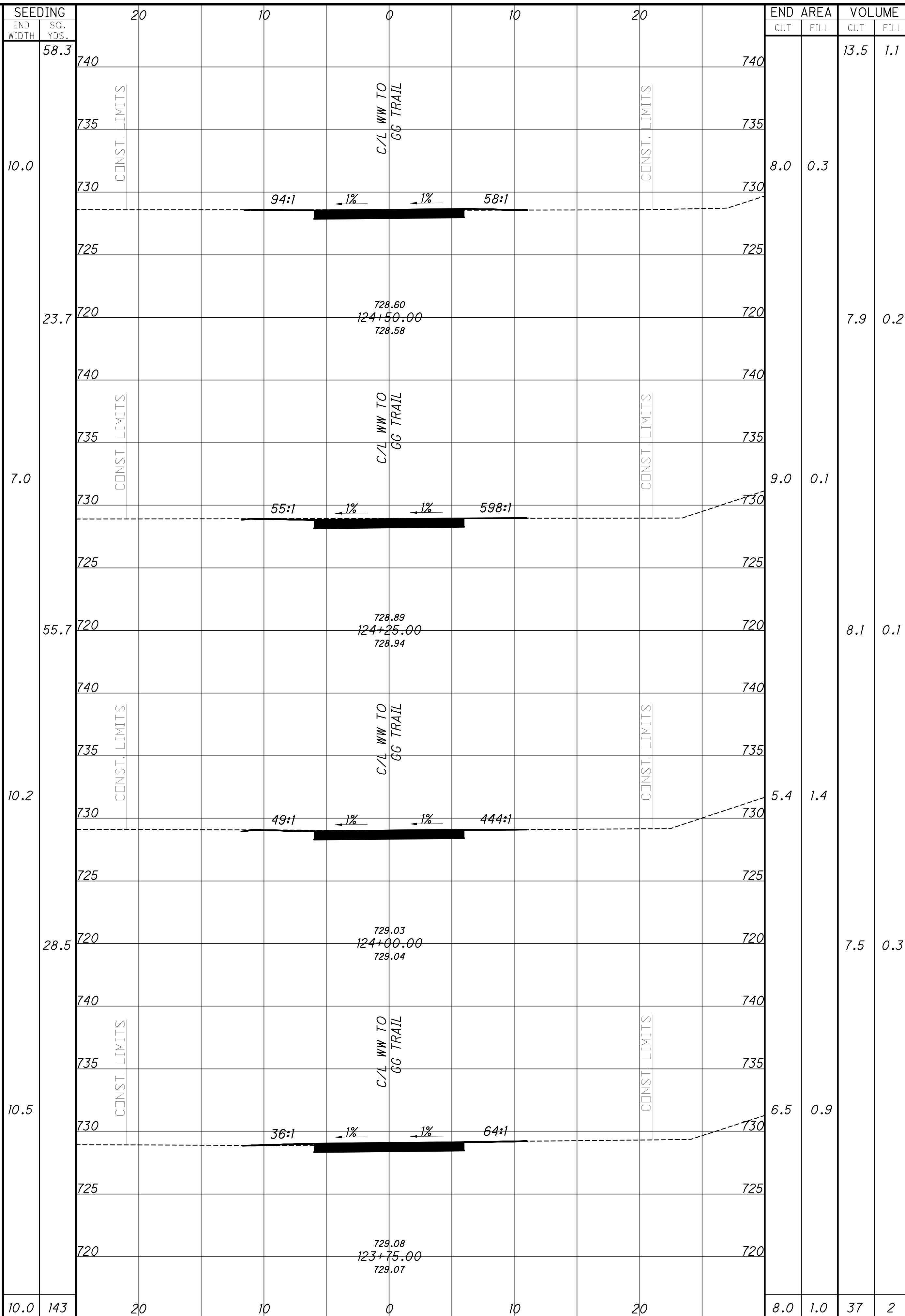
CROSS SECTIONS - WW TO GG  
STA. 120+00.00 TO STA. 123+50.00

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117016	
SHEET	TOTAL
P.99	210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 123+75.00 TO STA. 126+50.00

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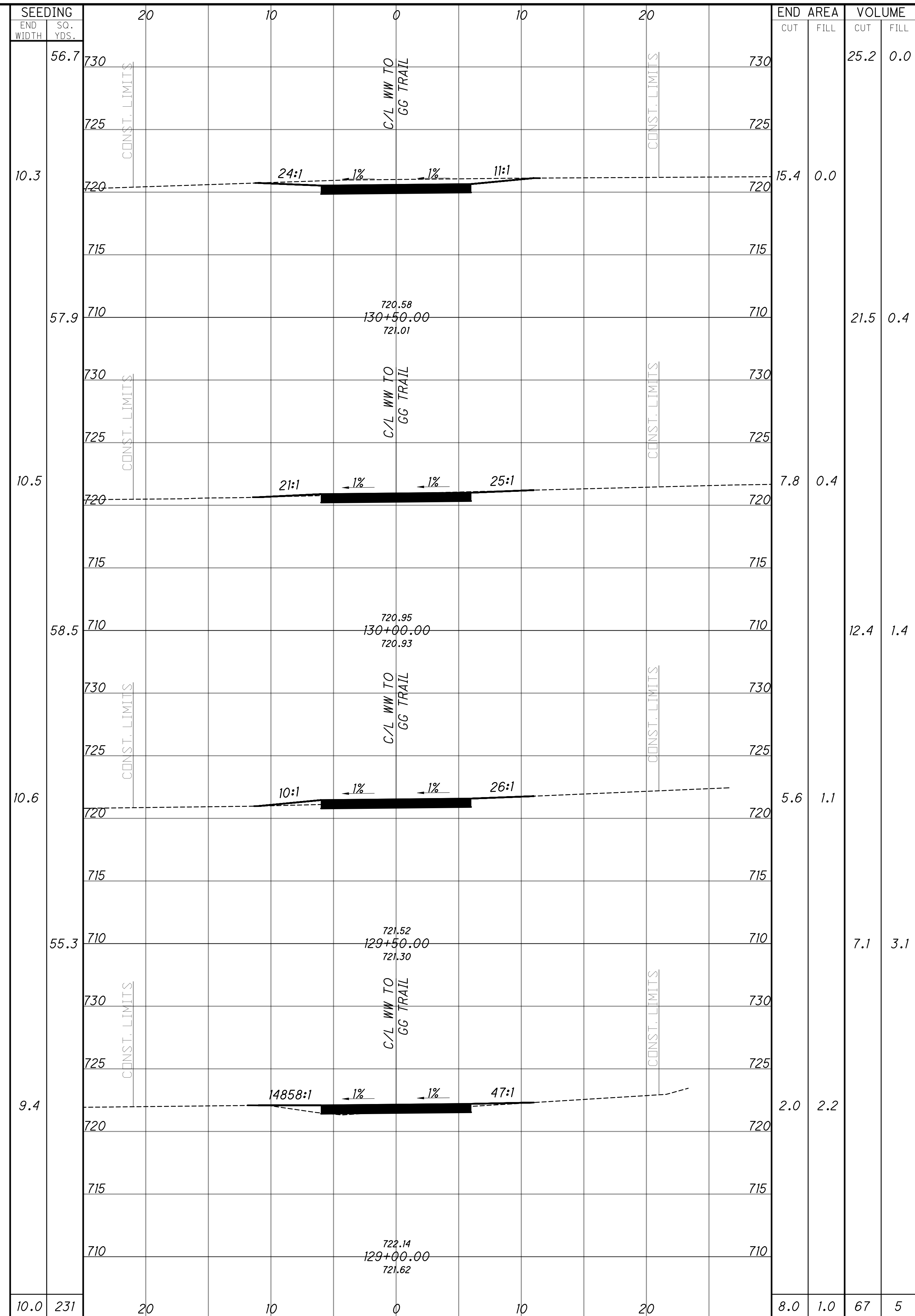
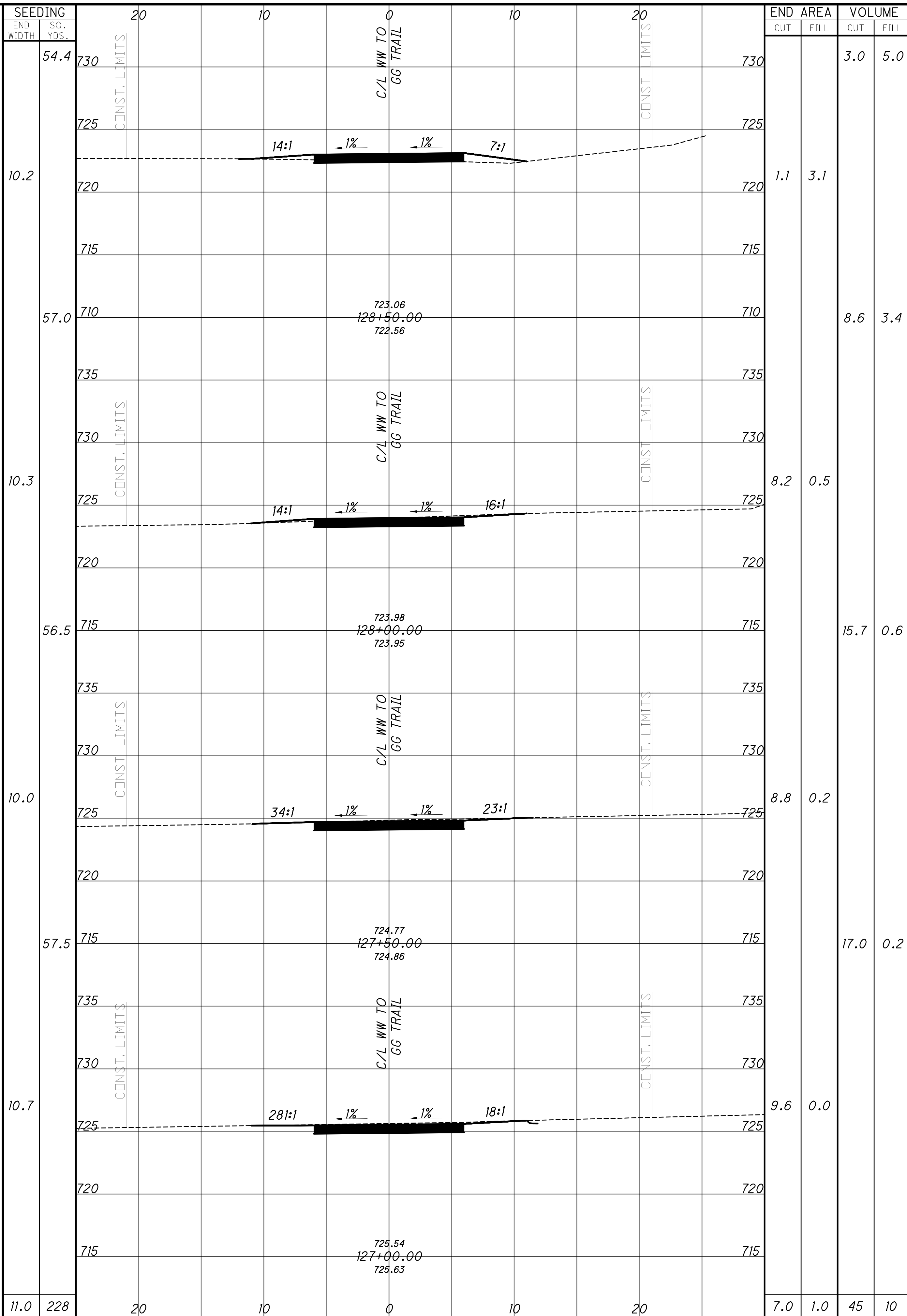
REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

SHEET TOTAL  
P.100 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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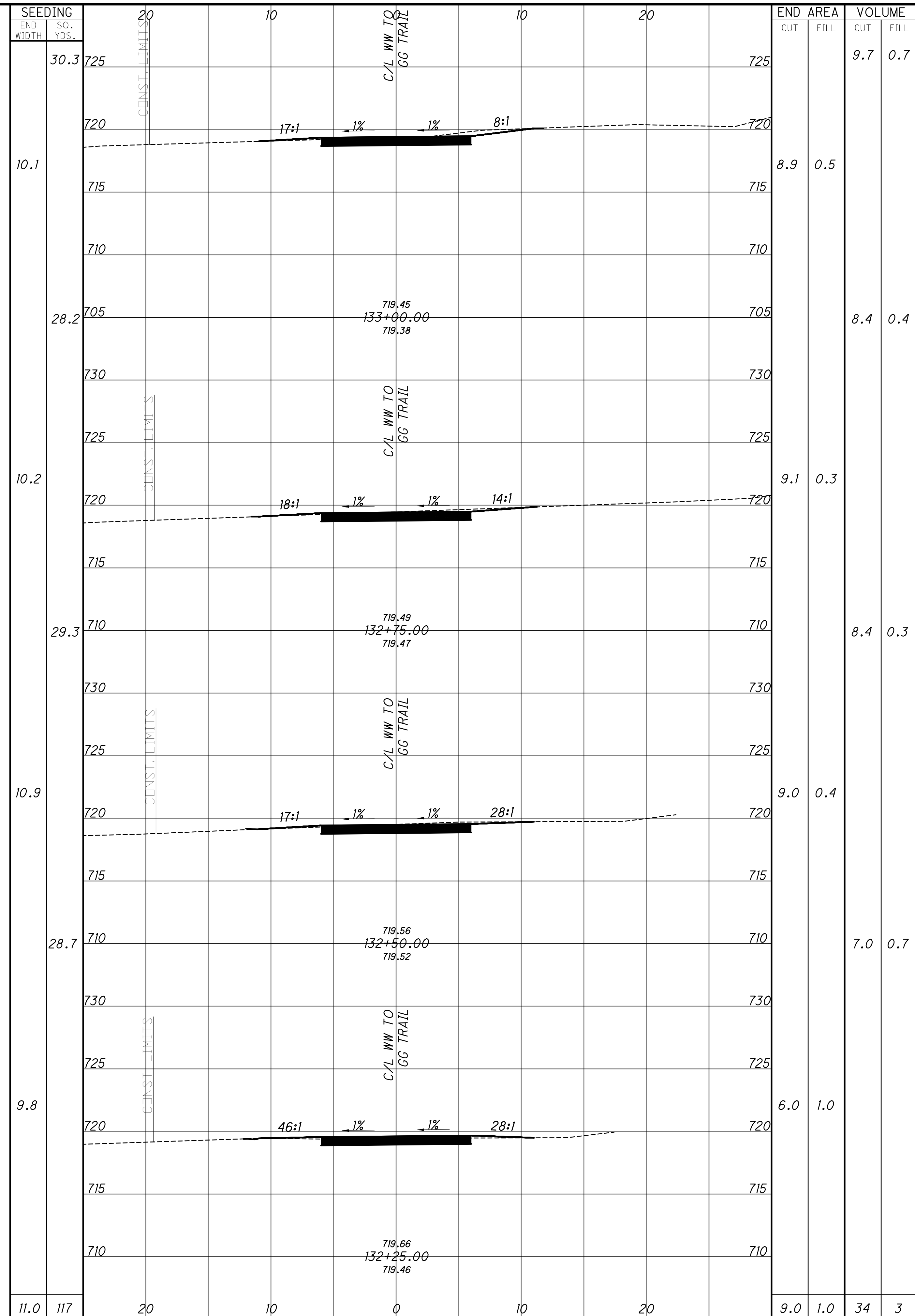
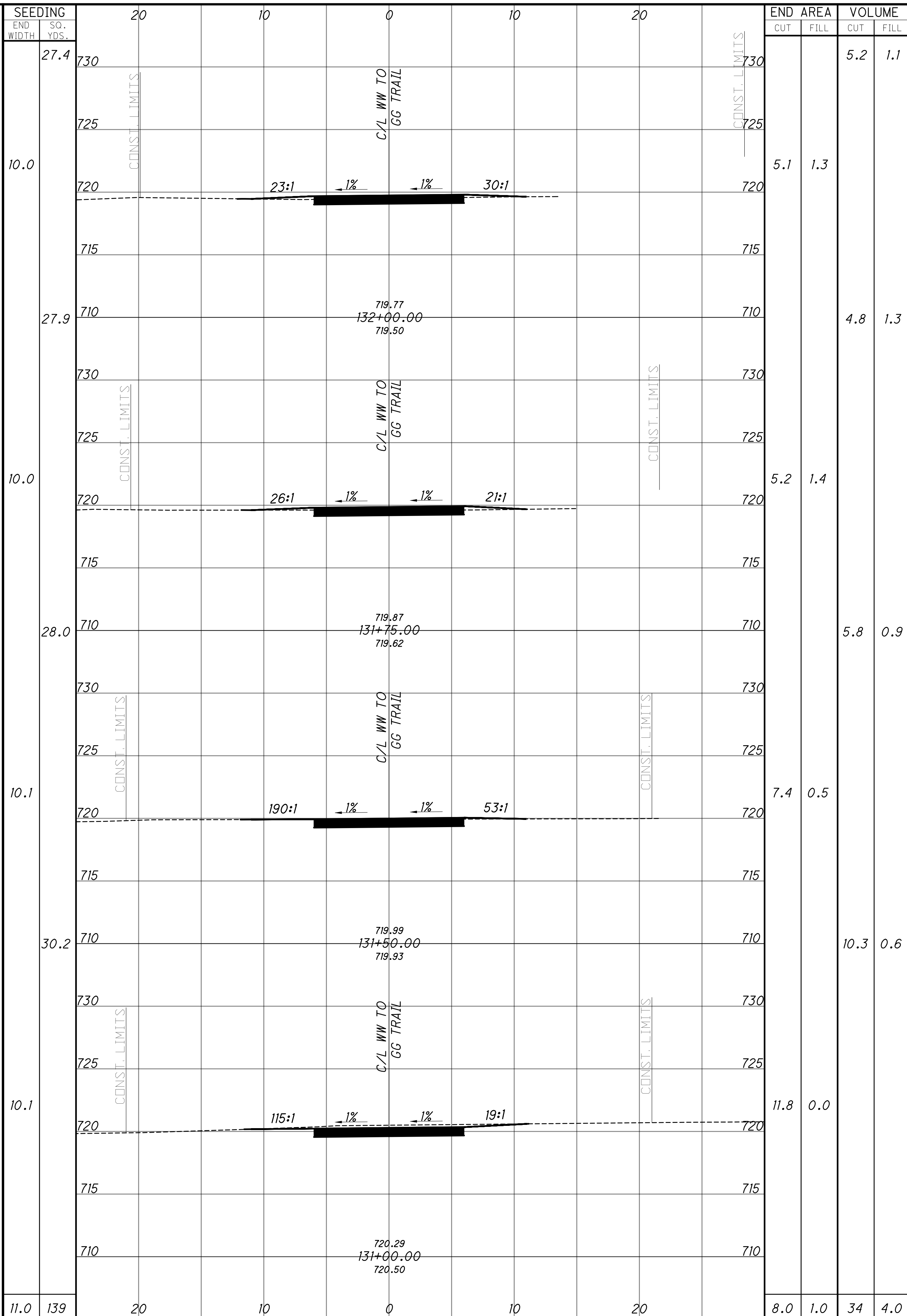
CROSS SECTIONS - WW TO GG  
STA. 127+00.00 TO STA. 130+50.00

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HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 131+00.00 TO STA. 133+00.00

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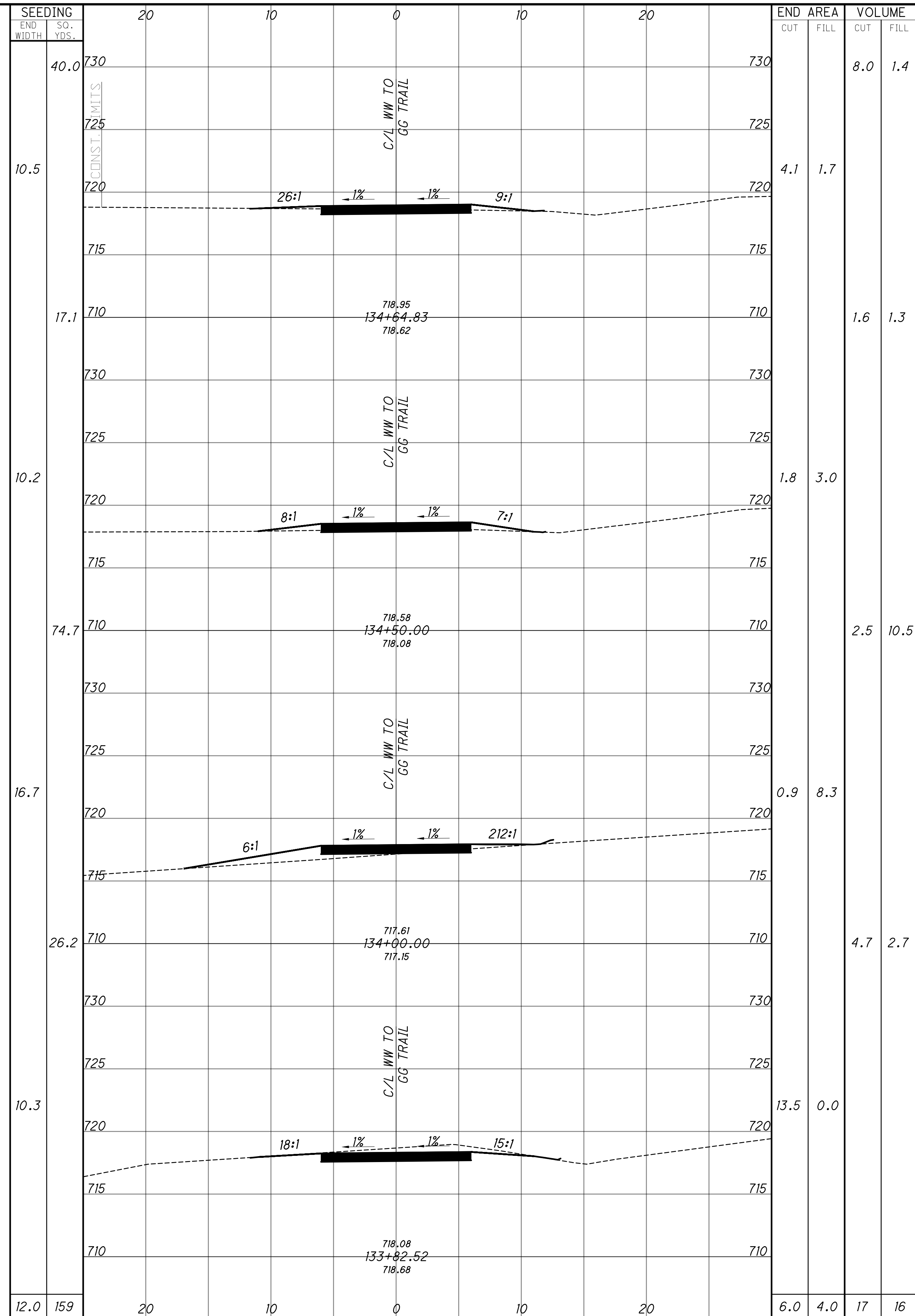
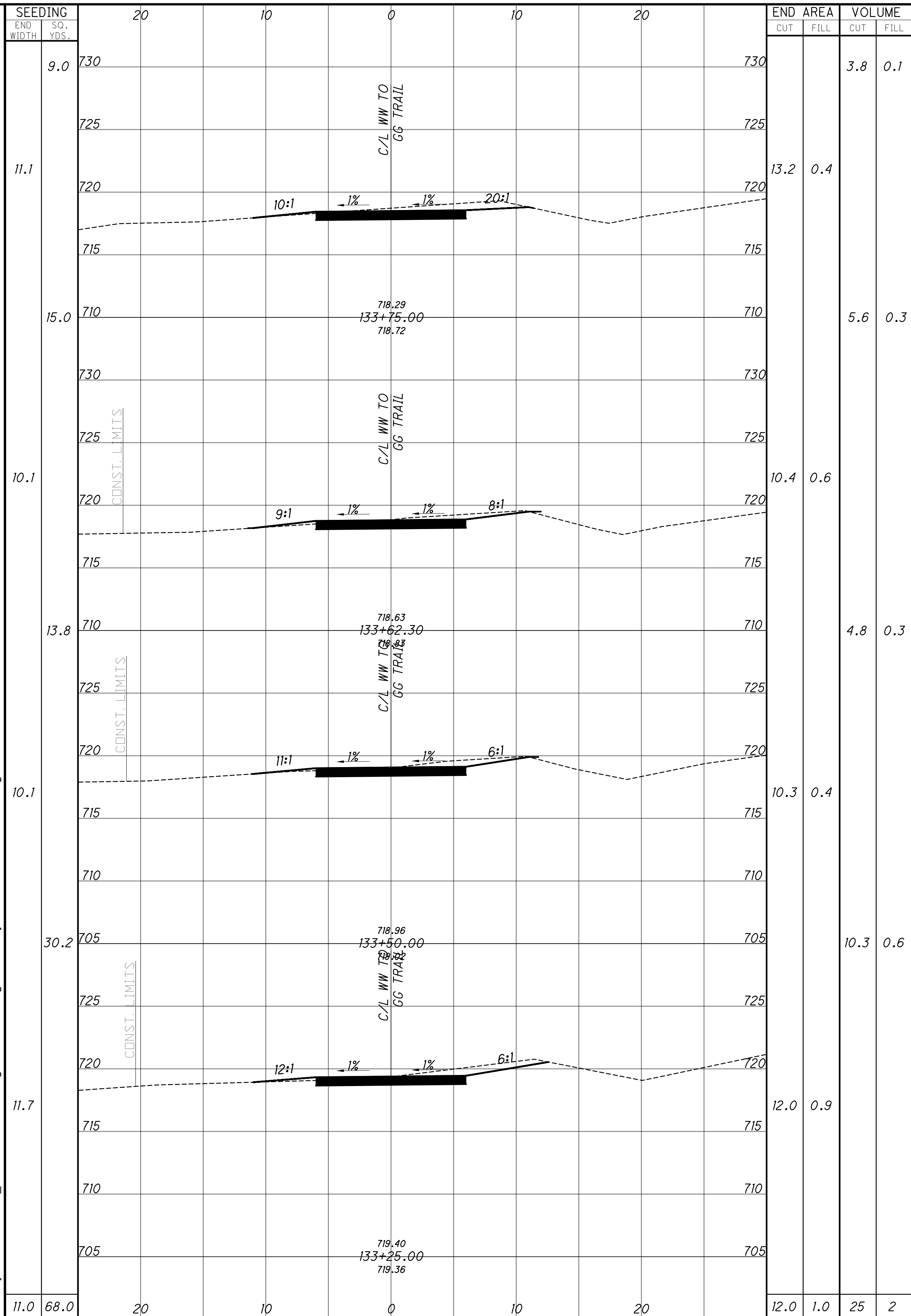
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 117016

SHEET TOTAL  
 P.102 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 133+25.00 TO STA. 134+64.83

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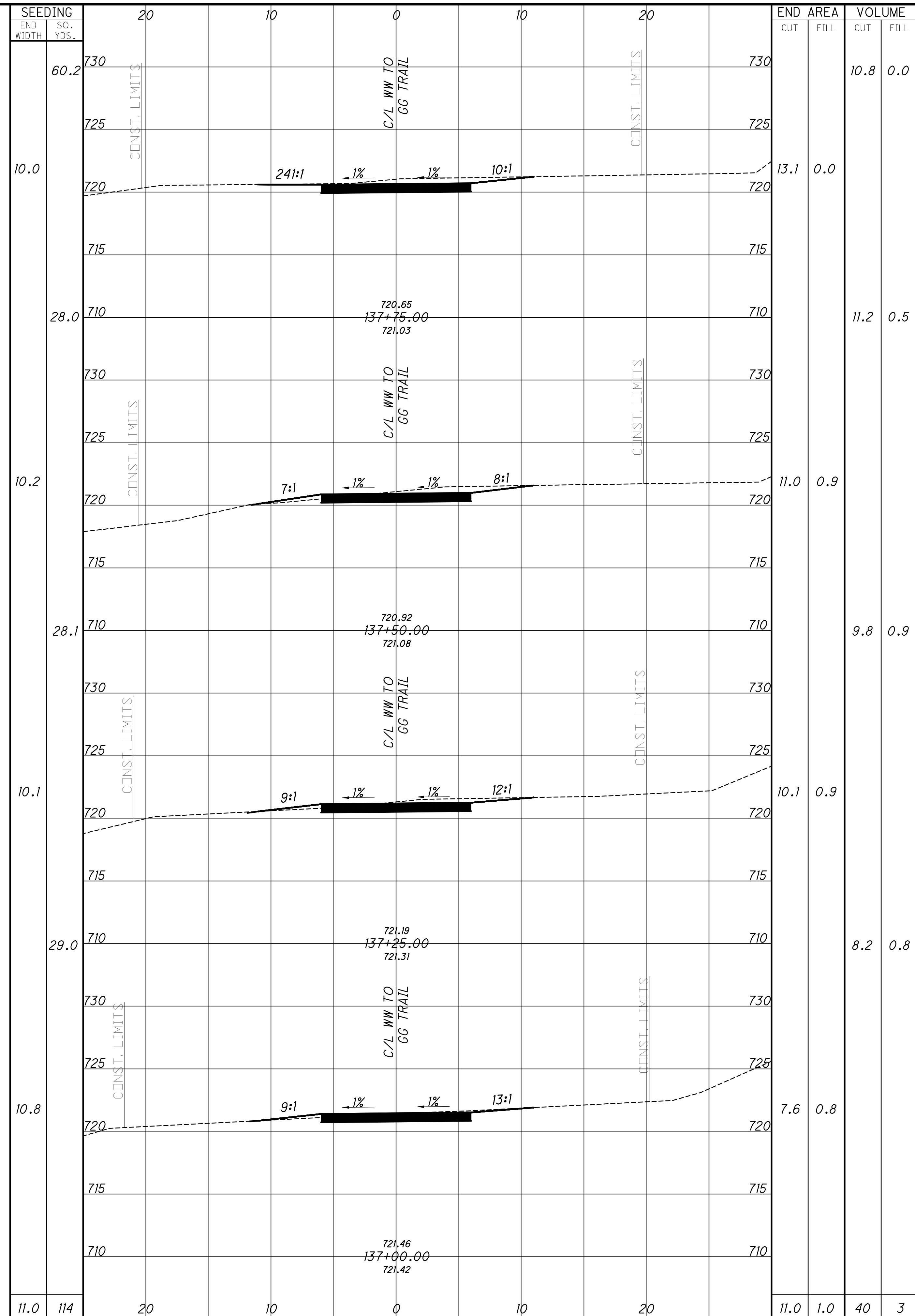
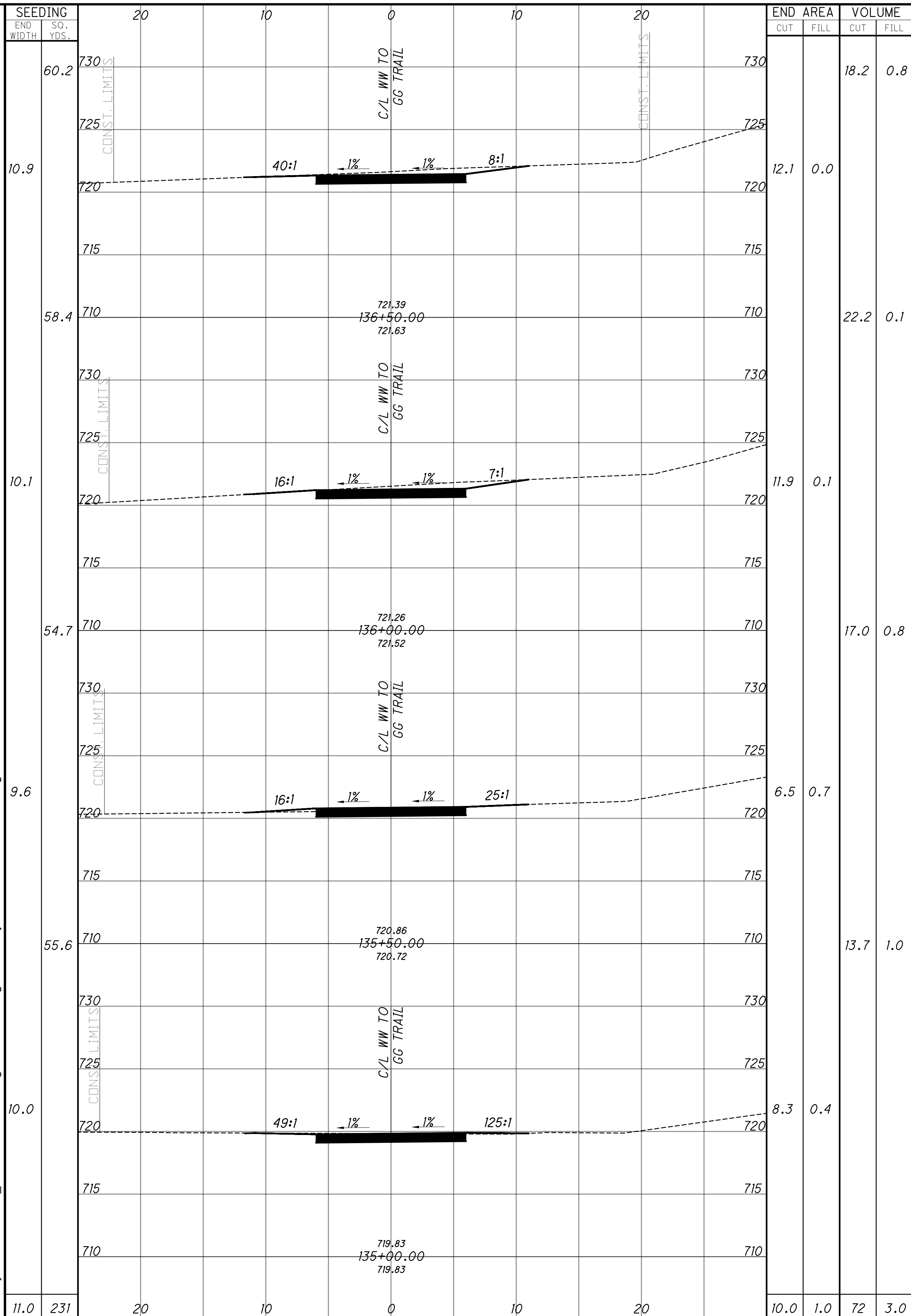
PROJECT ID  
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SHEET TOTAL  
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HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 135+00.00 TO STA. 137+75.00

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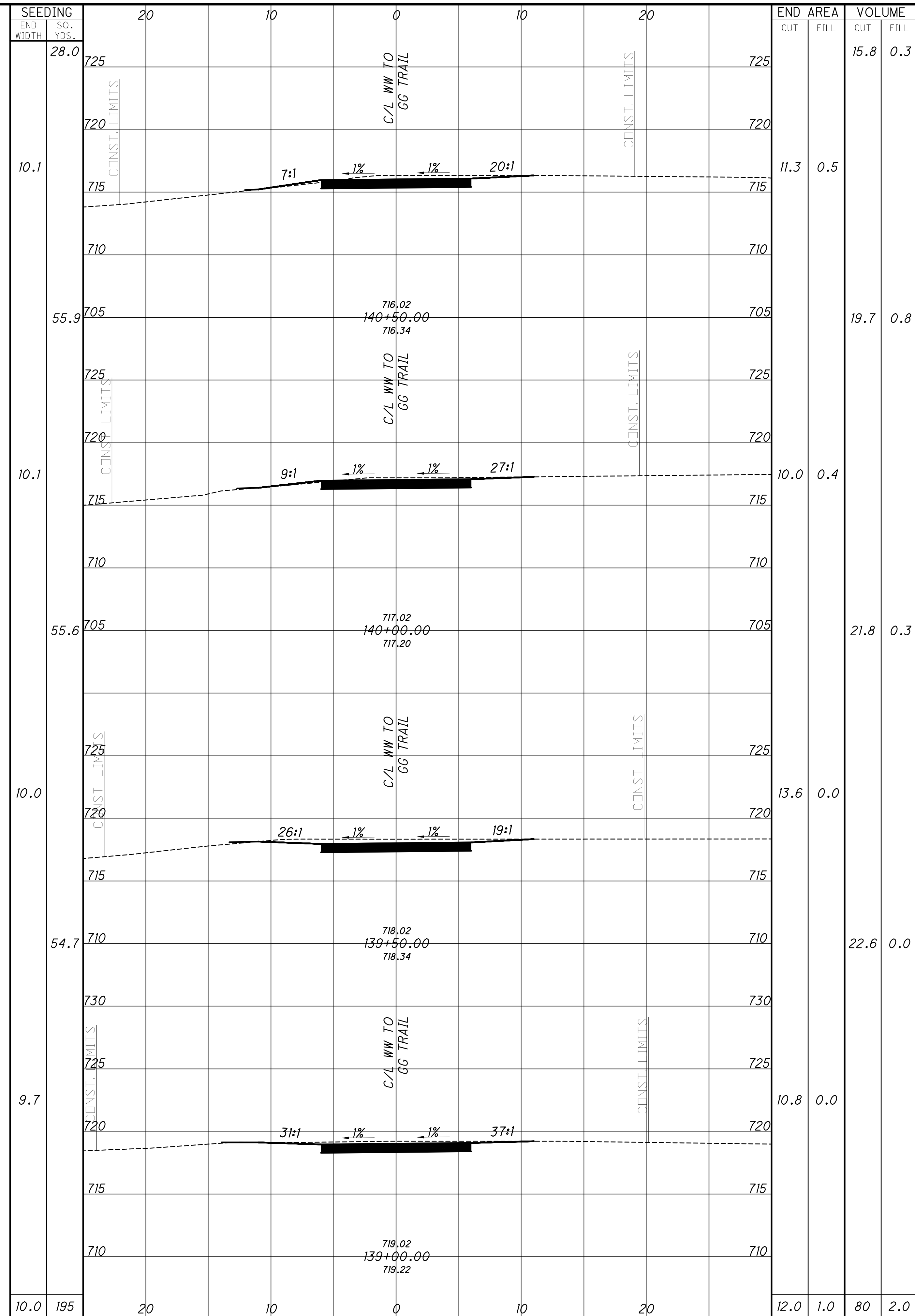
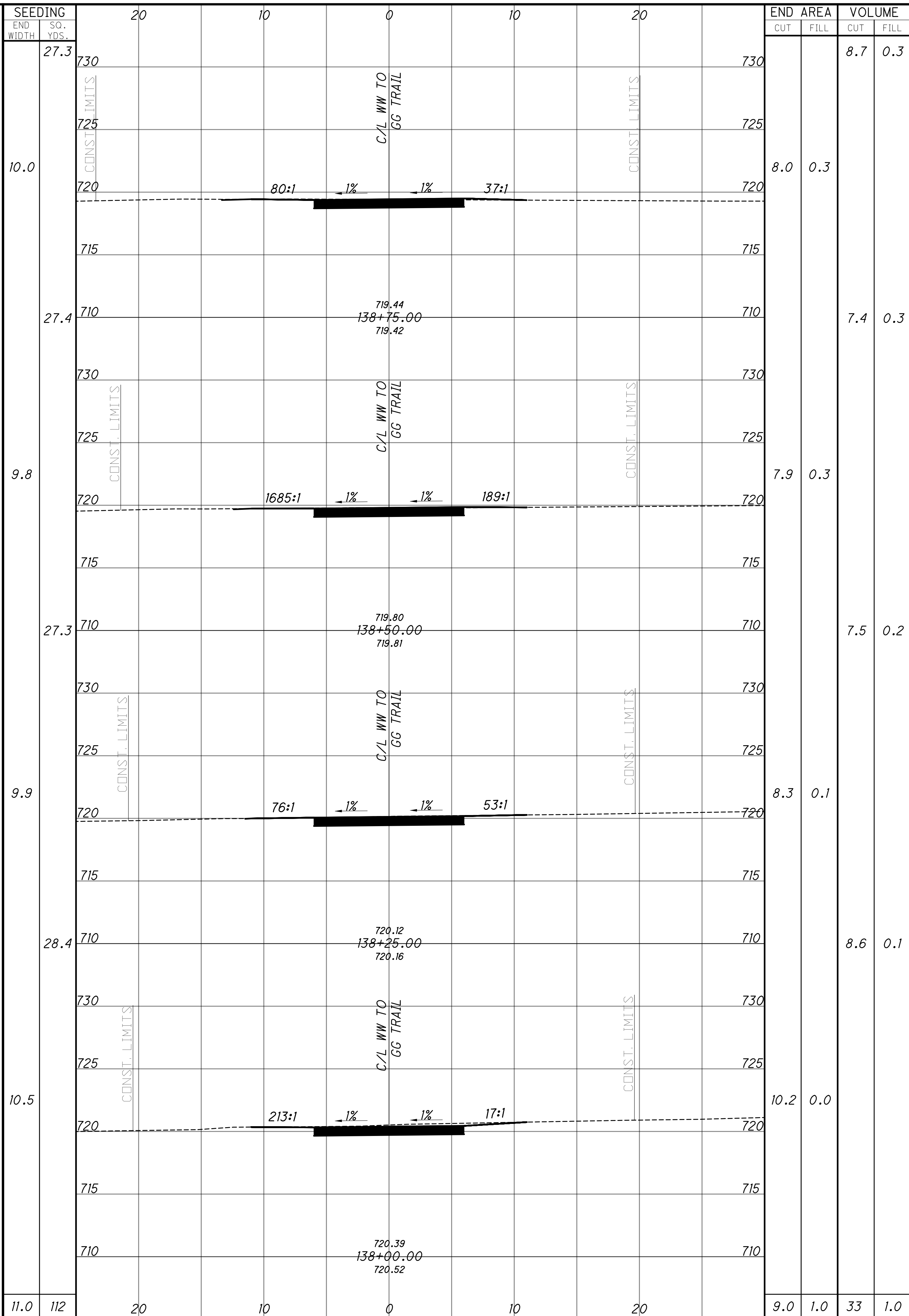
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PROJECT ID  
117016

SHEET TOTAL  
P.104 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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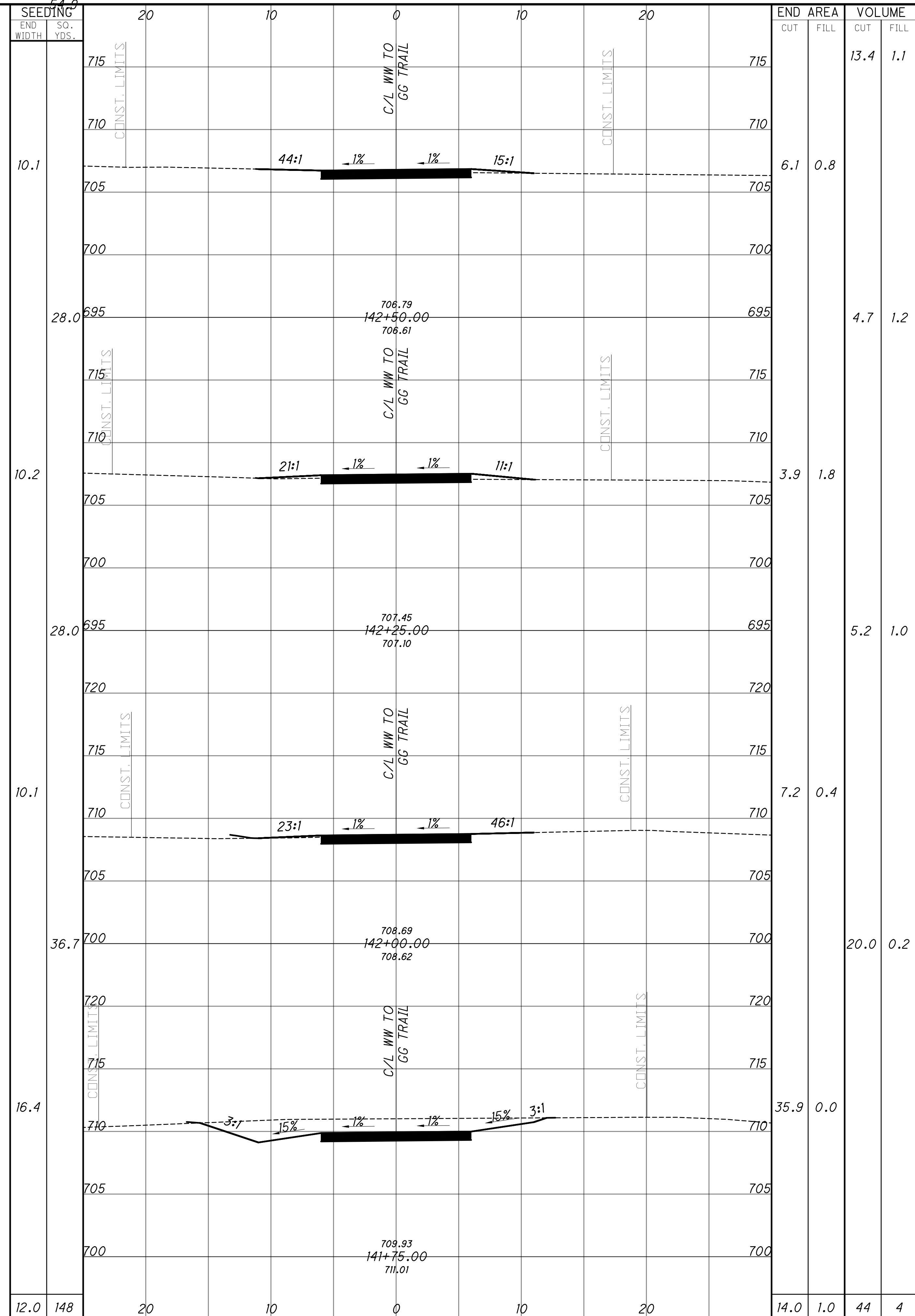
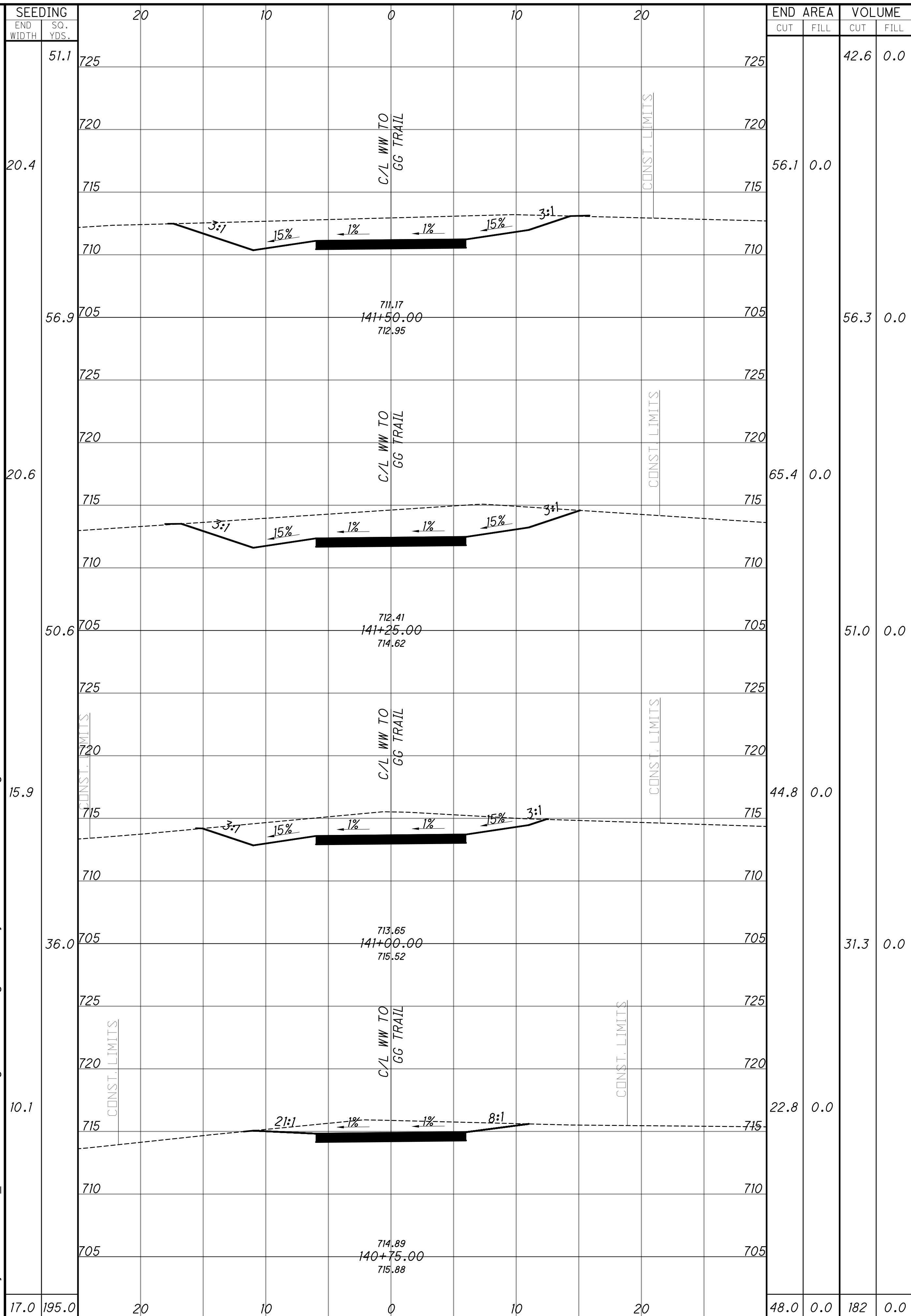
CROSS SECTIONS - WW TO GG  
STA. 138+00.00 TO STA. 140+50.00

DESIGN AGENCY	<b>KZFJ-SIG</b> Designing Better Futures
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REVIEWER	SCR 4/1/2024
PROJECT ID	117016
SHEET	TOTAL
P.105	210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 140+75.00 TO STA. 142+50.00

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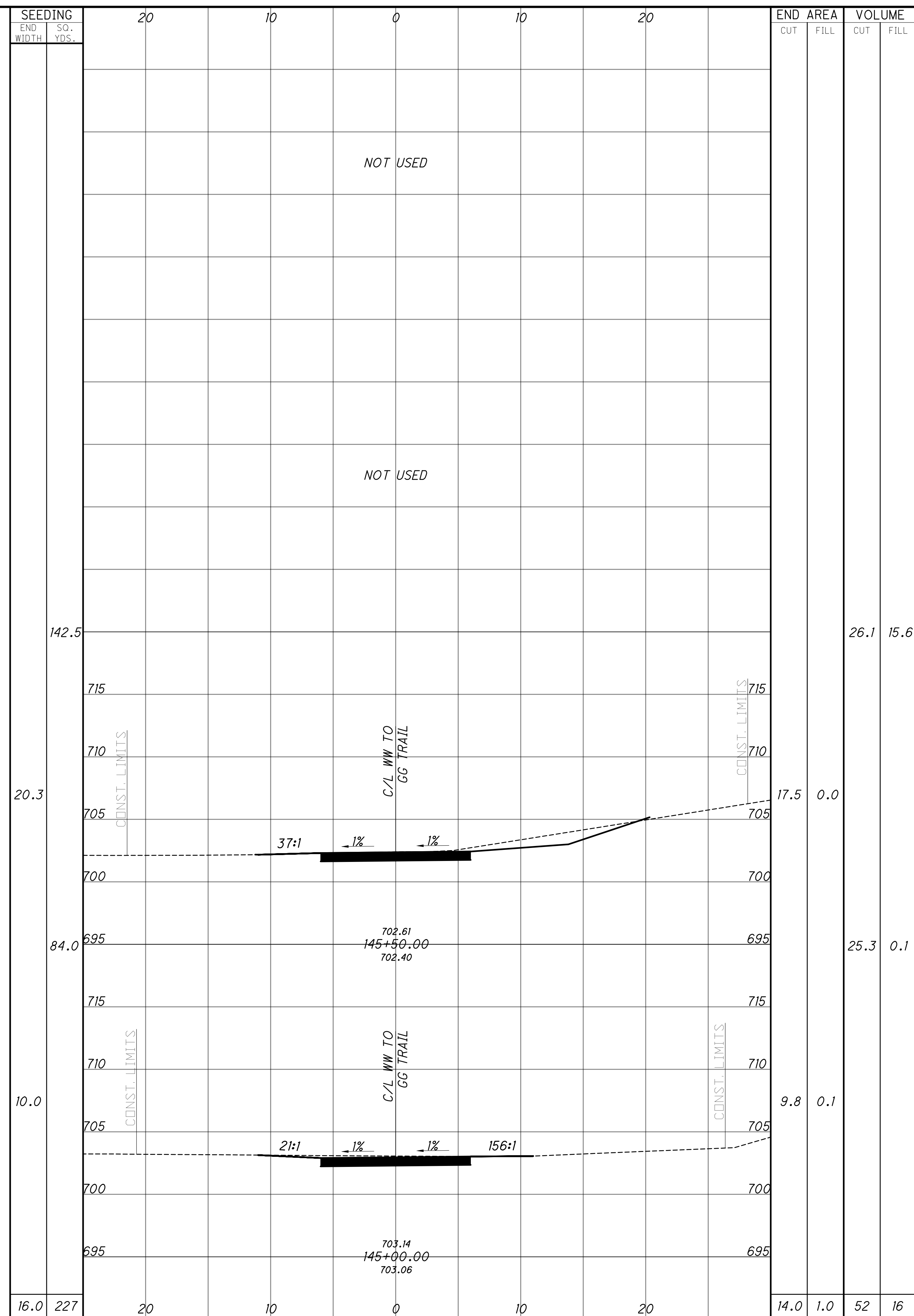
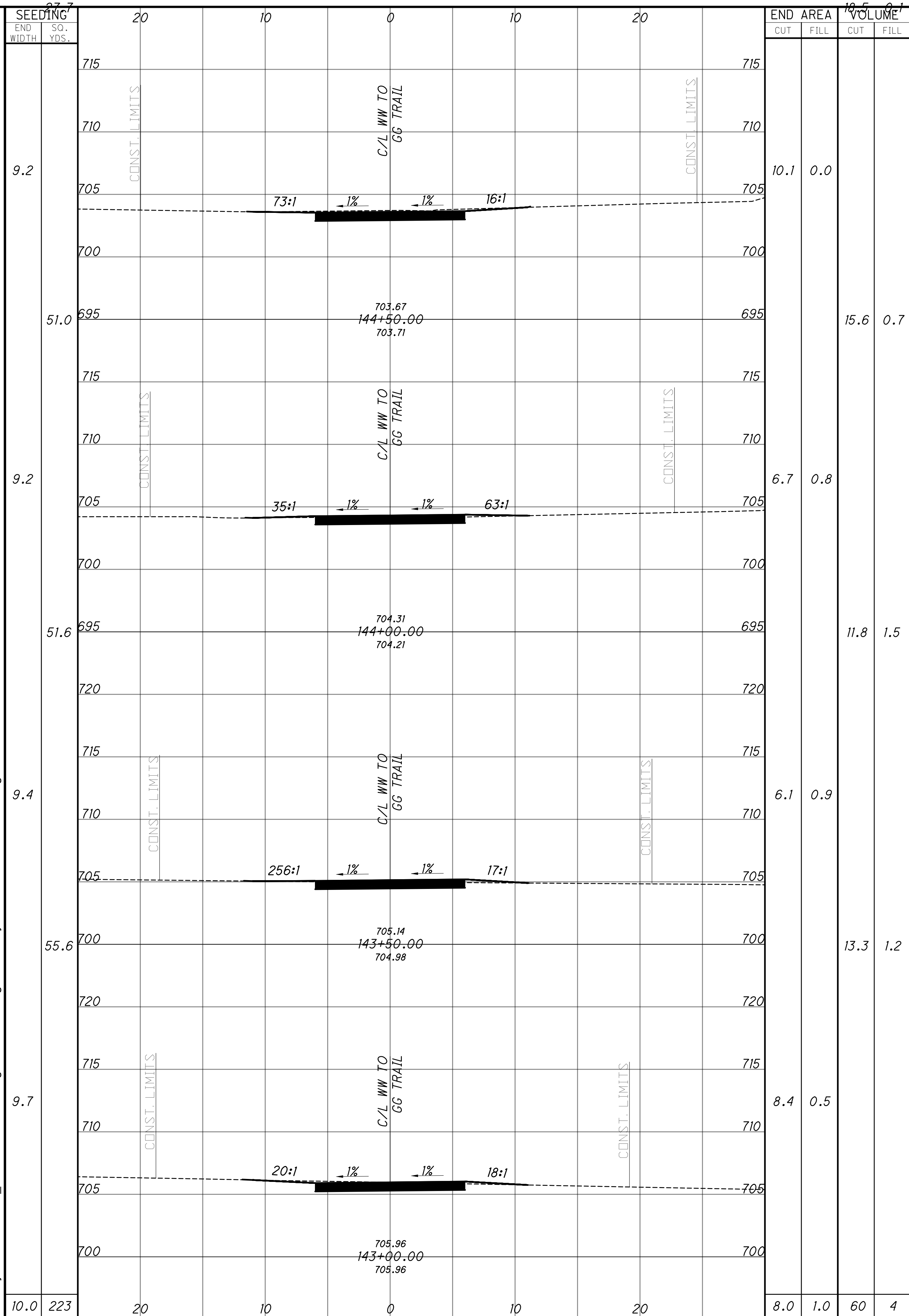
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PROJECT ID  
117016

SHEET TOTAL  
P.106 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 143+00.00 TO STA. 145+50.00

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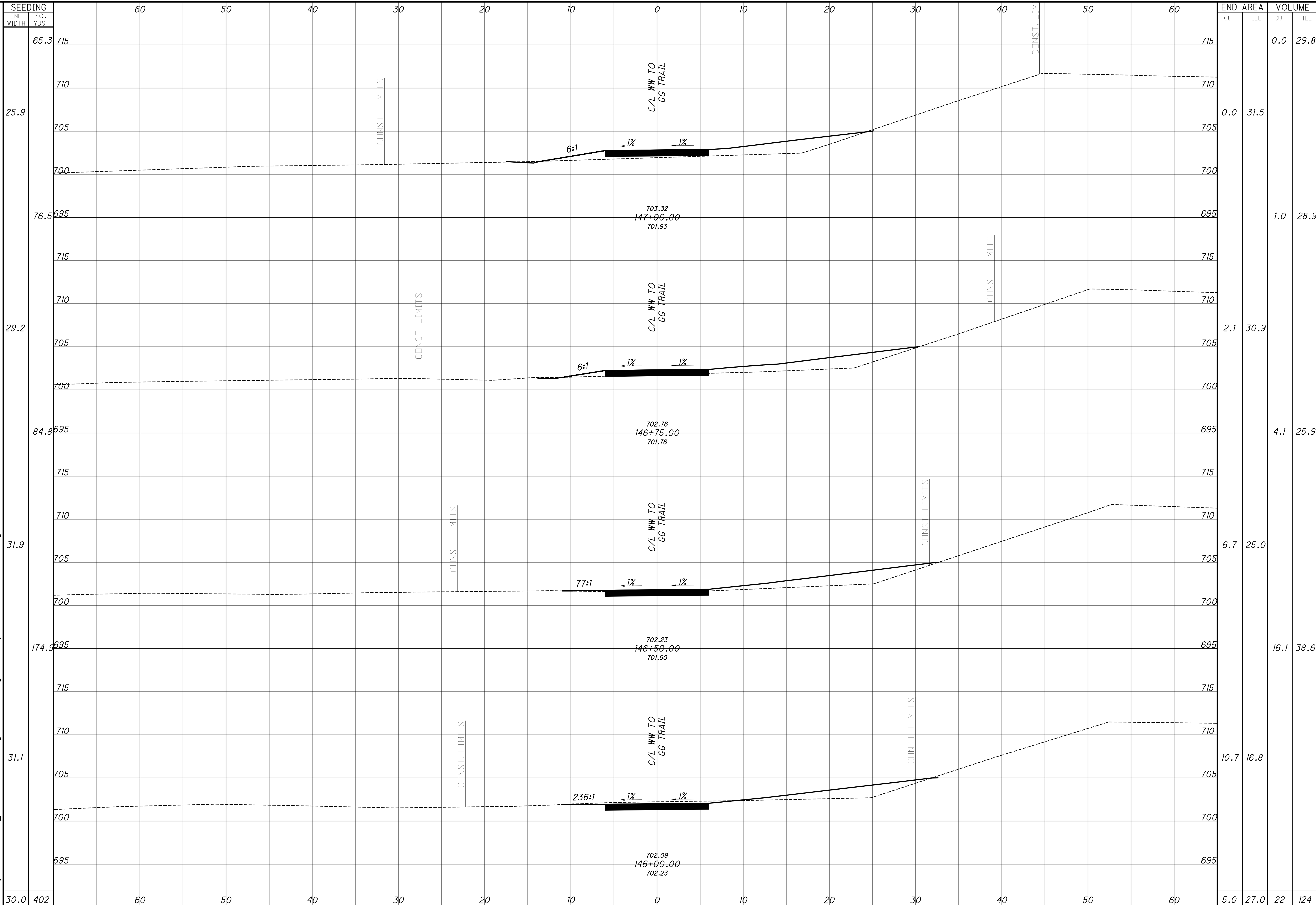
PROJECT ID  
 117016

SHEET TOTAL  
 P.107 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING END WIDTH	SO. YDS.	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
65.3	715	0.0	29.8	0.0	29.8
25.9	710	0.0	31.5	0.0	31.5
76.5	695	1.0	28.9	1.0	28.9
29.2	715	2.1	30.9	2.1	30.9
84.8	695	4.1	25.9	4.1	25.9
31.9	715	6.7	25.0	6.7	25.0
174.9	695	16.1	38.6	16.1	38.6
31.1	715	10.7	16.8	10.7	16.8
30.0	402	5.0	27.0	22	124

CROSS SECTIONS - WW TO GG  
STA. 146+00.00 TO STA. 147+00.00

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 700 Broadway Street  
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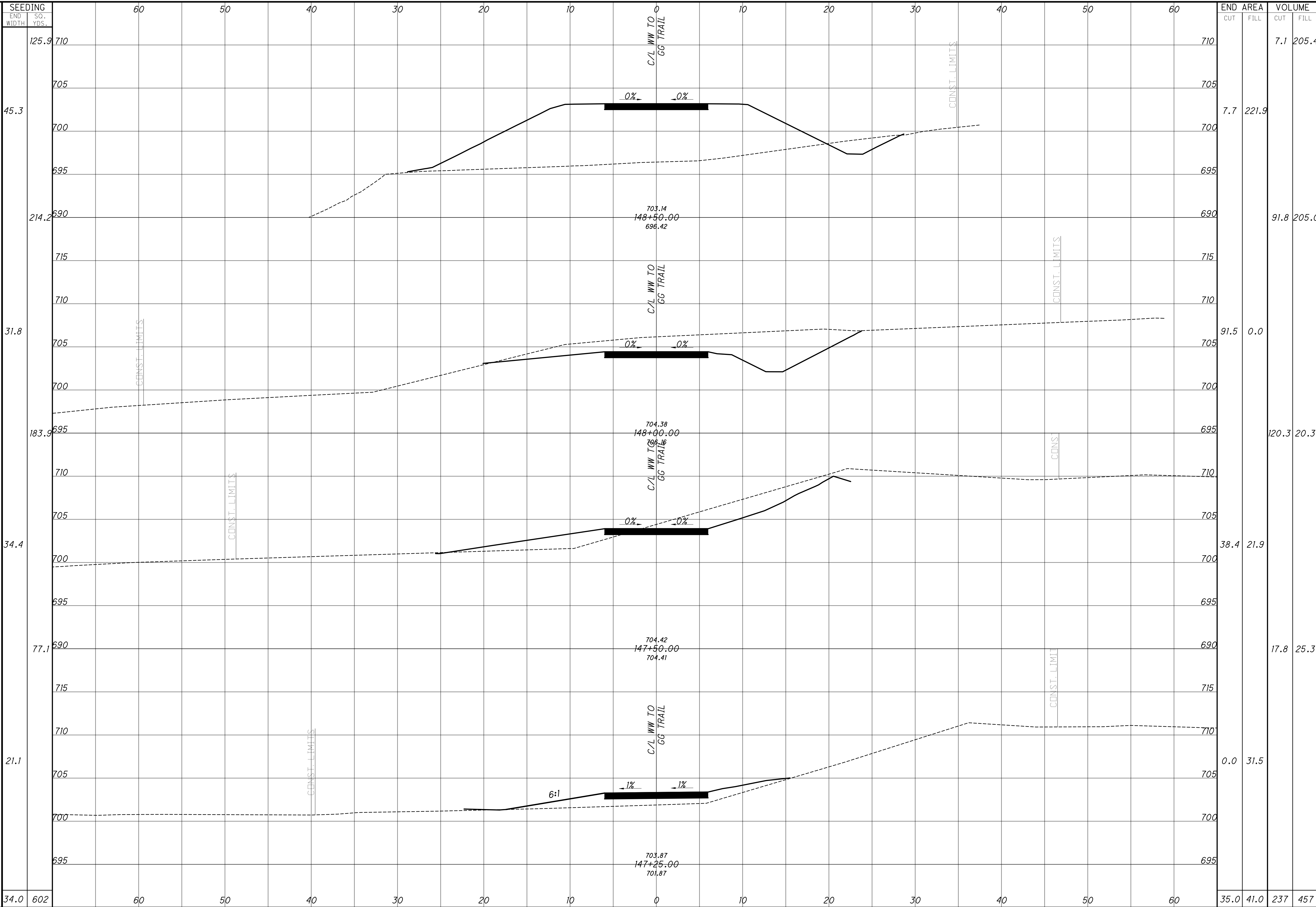
REVIEWER  
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PROJECT ID  
 117016

SHEET TOTAL  
 P.108 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 147+25.00 TO STA. 148+50.00

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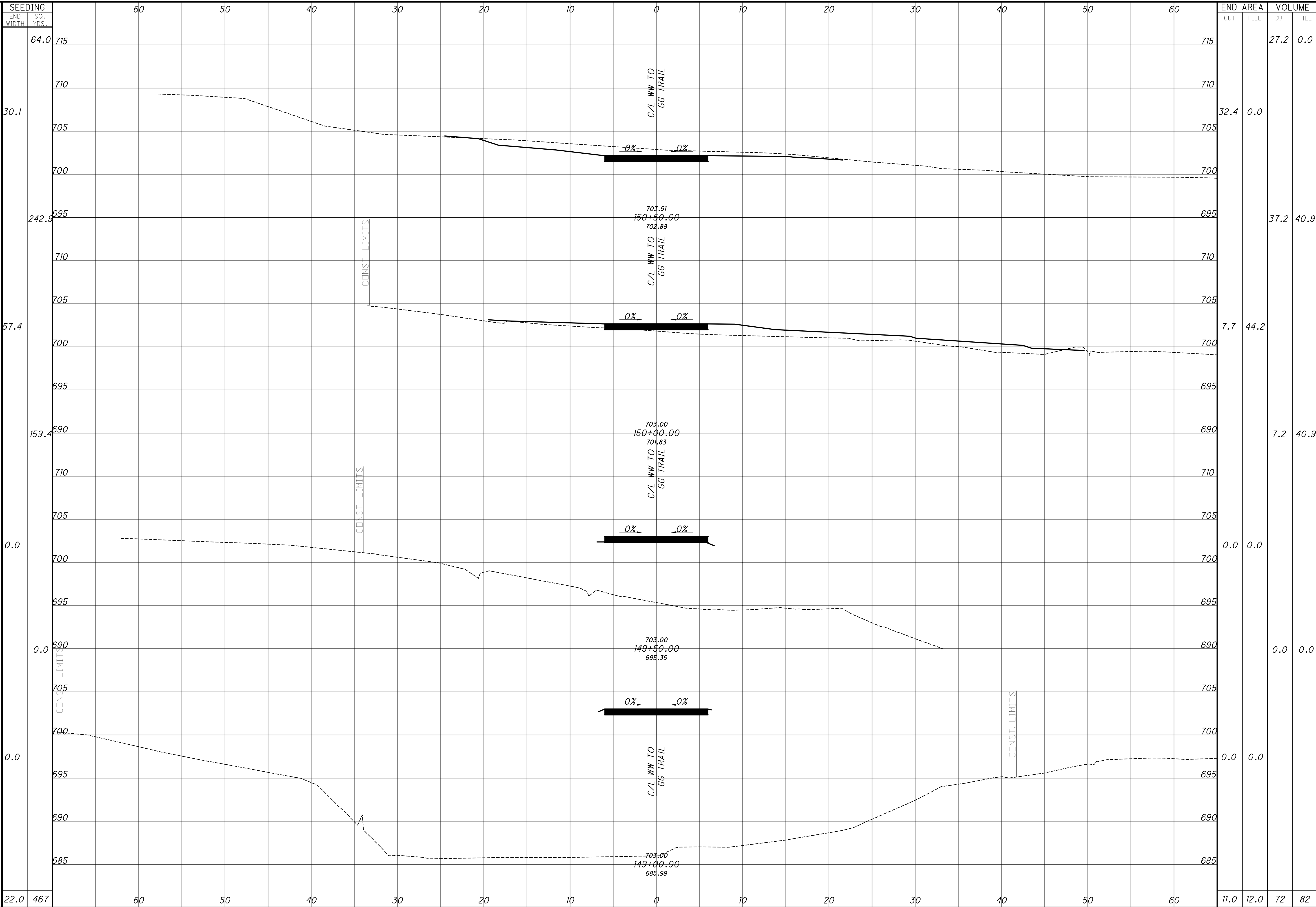
PROJECT ID  
**117016**

SHEET TOTAL  
**P.109 210**



HAM-WINTON WOODS TO GLENWOOD GARDENS

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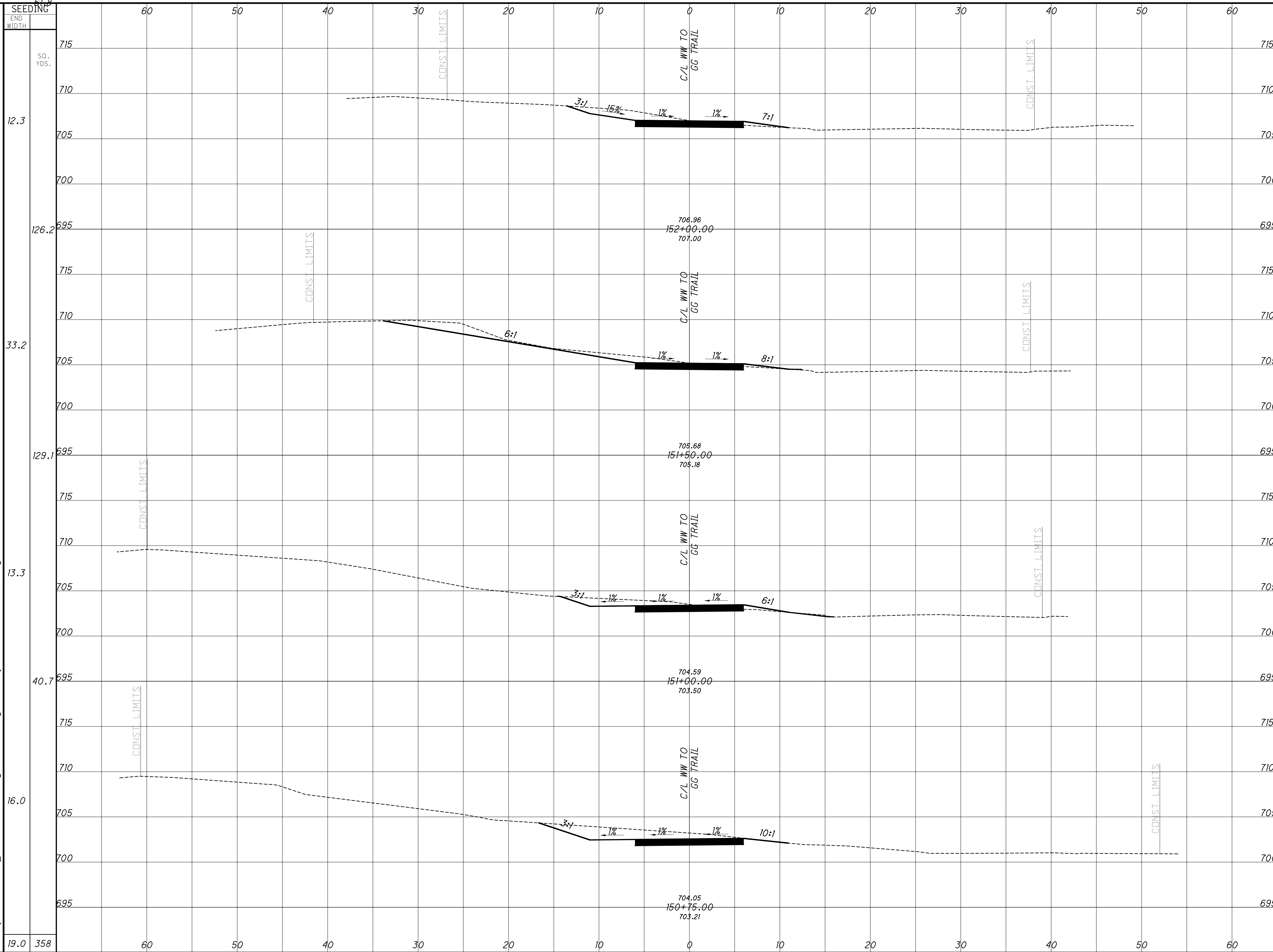


CROSS SECTIONS - WW TO GG  
STA. 149+00.00 TO STA. 150+50.00

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<b>KZFJ-SIG</b> Designing Better Futures	
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PROJECT ID	
117016	
SHEET	TOTAL
P.110	210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING END WIDTH	SO. YDS.	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
12.3	715	14.5	1.3	12.3	1.6
126.2	695	33.4	2.0	152+00.00	
33.2	715	21.6	0.9	152+75.00	
129.1	695	32.7	2.0	151+50.00	
13.3	715	13.8	1.3	151+00.00	
40.7	695	18.6	0.6	151+00.00	
16.0	715	26.4	0.0	150+75.00	
19.0	358	20.0	1.0	104	7

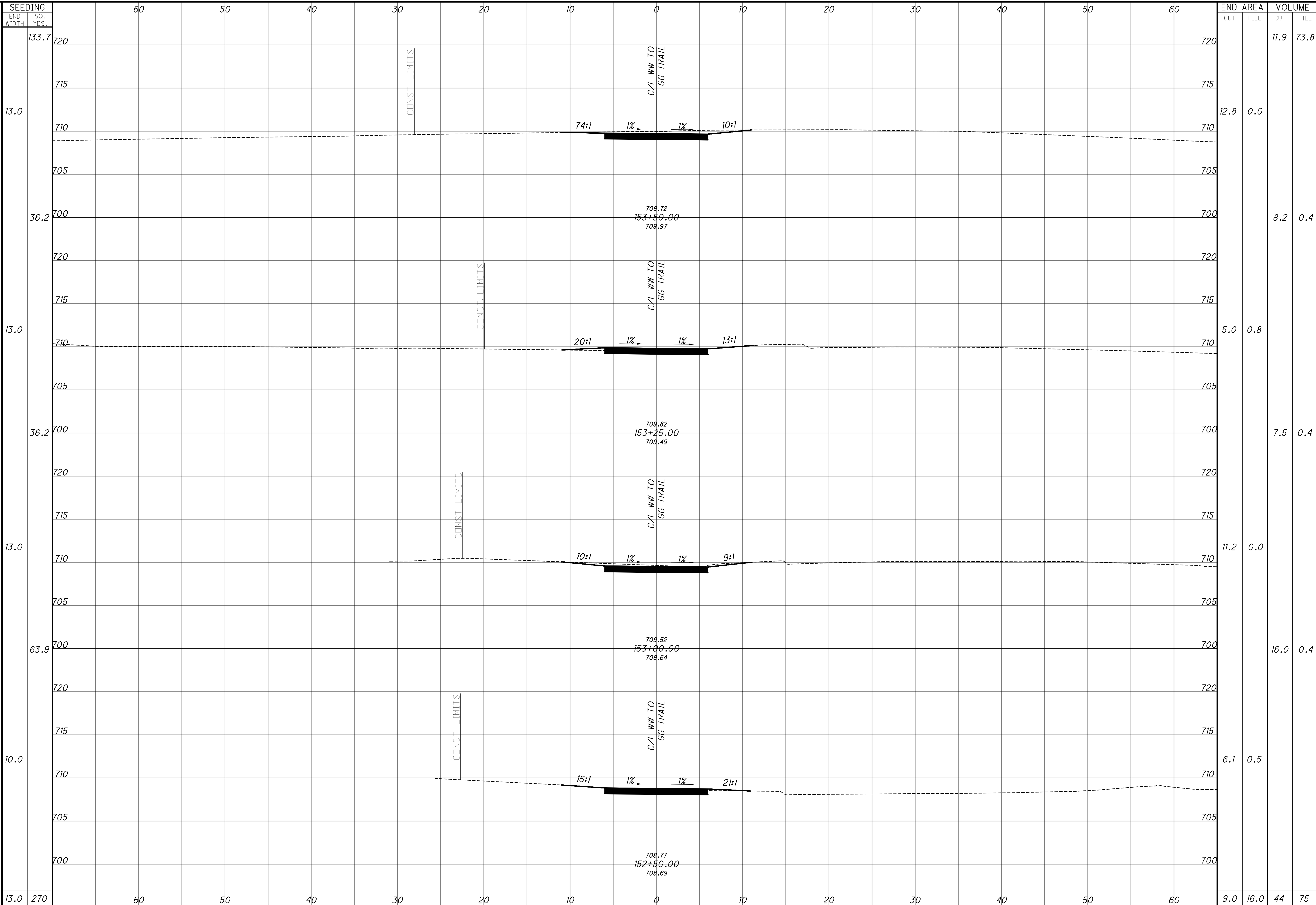
**CROSS SECTIONS - WW TO GG**  
STA. 150+75.00 TO STA. 152+00.00

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117016	
SHEET	TOTAL
P.111	210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 152+50.00 TO STA. 153+50.00

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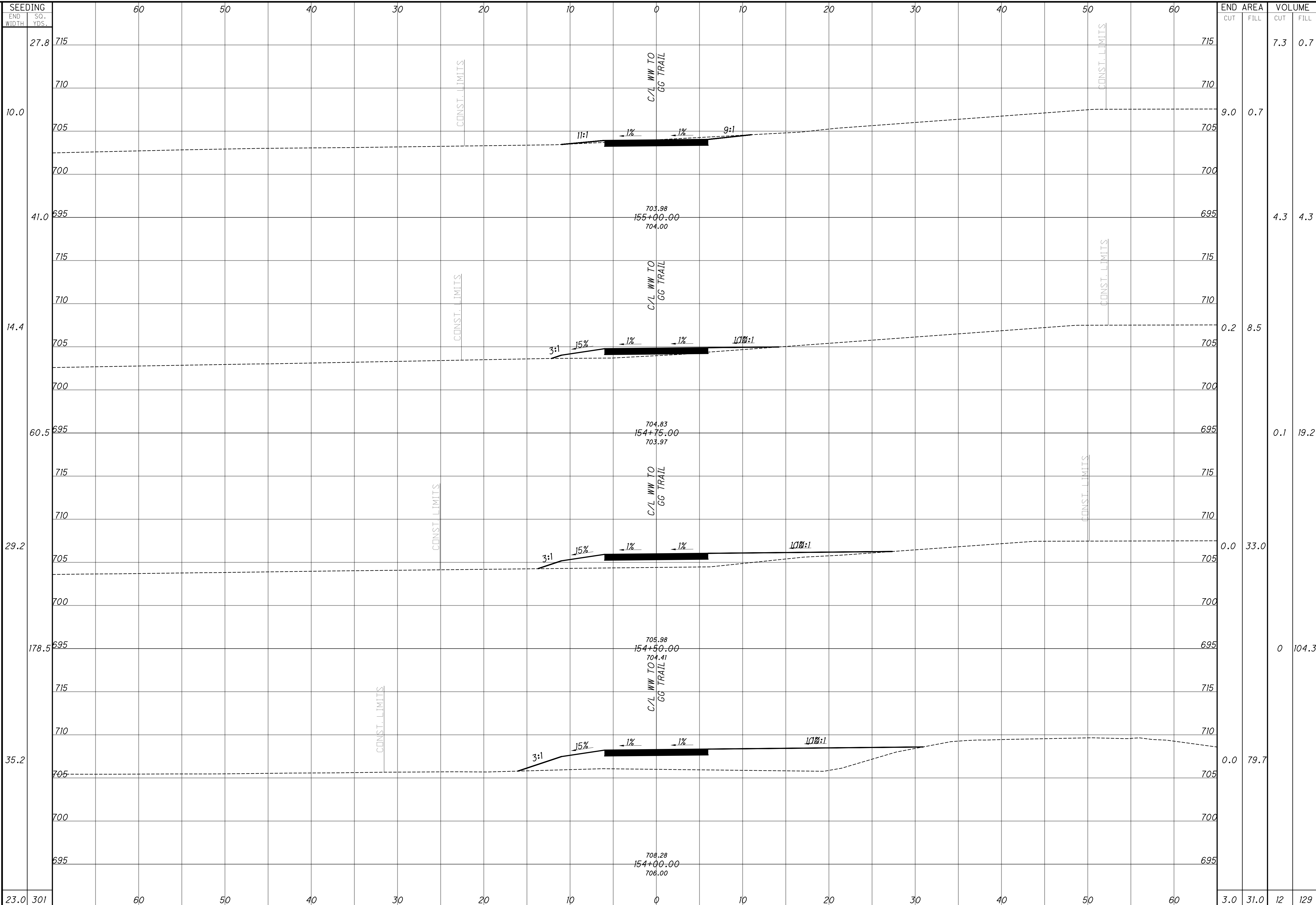
REVIEWER  
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PROJECT ID  
117016

SHEET TOTAL  
P.112 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 154+00.00 TO STA. 155+00.00

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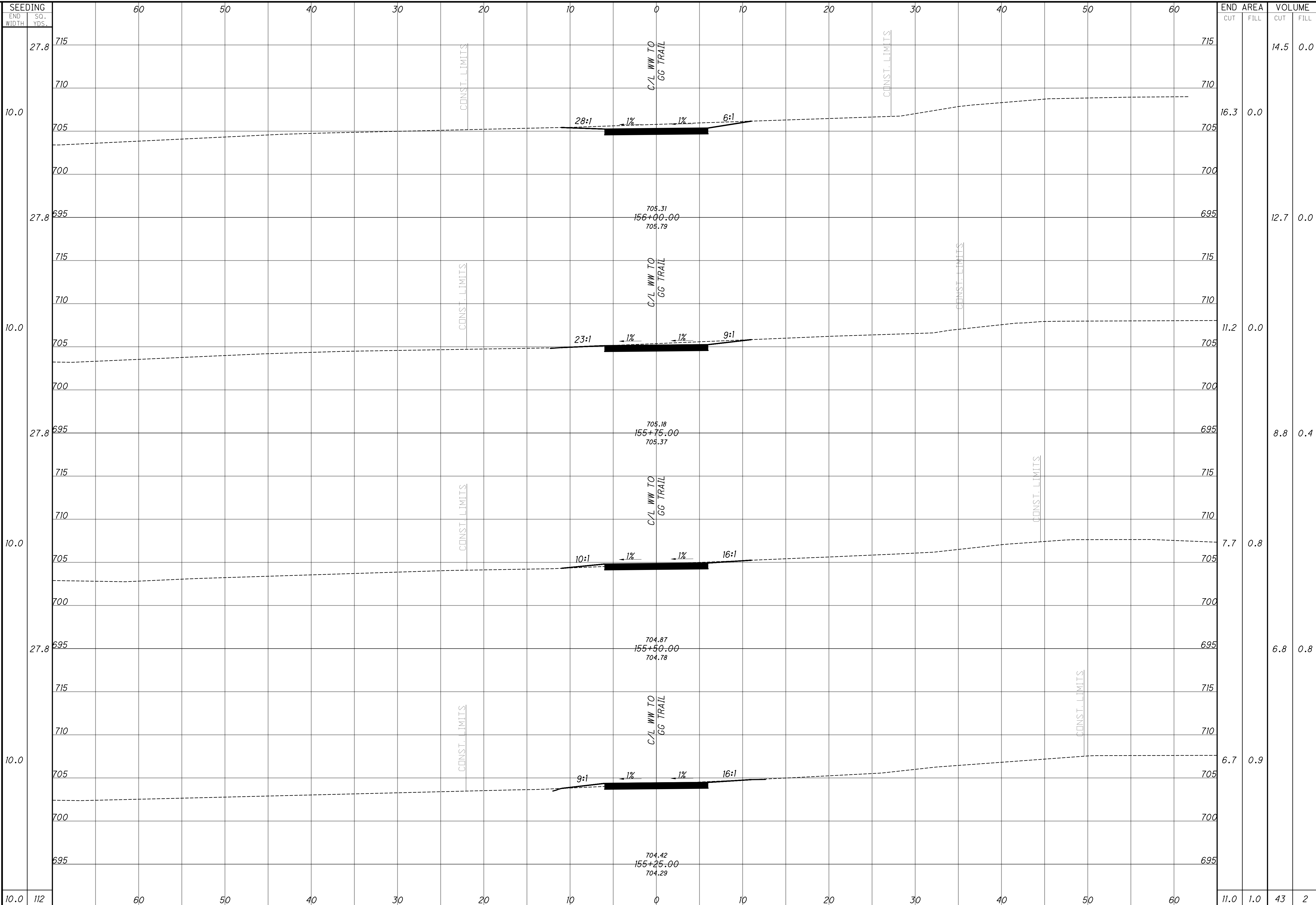
PROJECT ID  
117016

SHEET TOTAL  
P.113 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 155+25.00 TO STA. 156+00.00

SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
27.8	14.5	0.0	14.5	0.0
10.0	16.3	0.0	16.3	0.0
27.8	12.7	0.0	12.7	0.0
10.0	11.2	0.0	11.2	0.0
27.8	8.8	0.4	8.8	0.4
10.0	7.7	0.8	7.7	0.8
27.8	6.8	0.8	6.8	0.8
10.0	6.7	0.9	6.7	0.9
10.0	11.0	1.0	43	2

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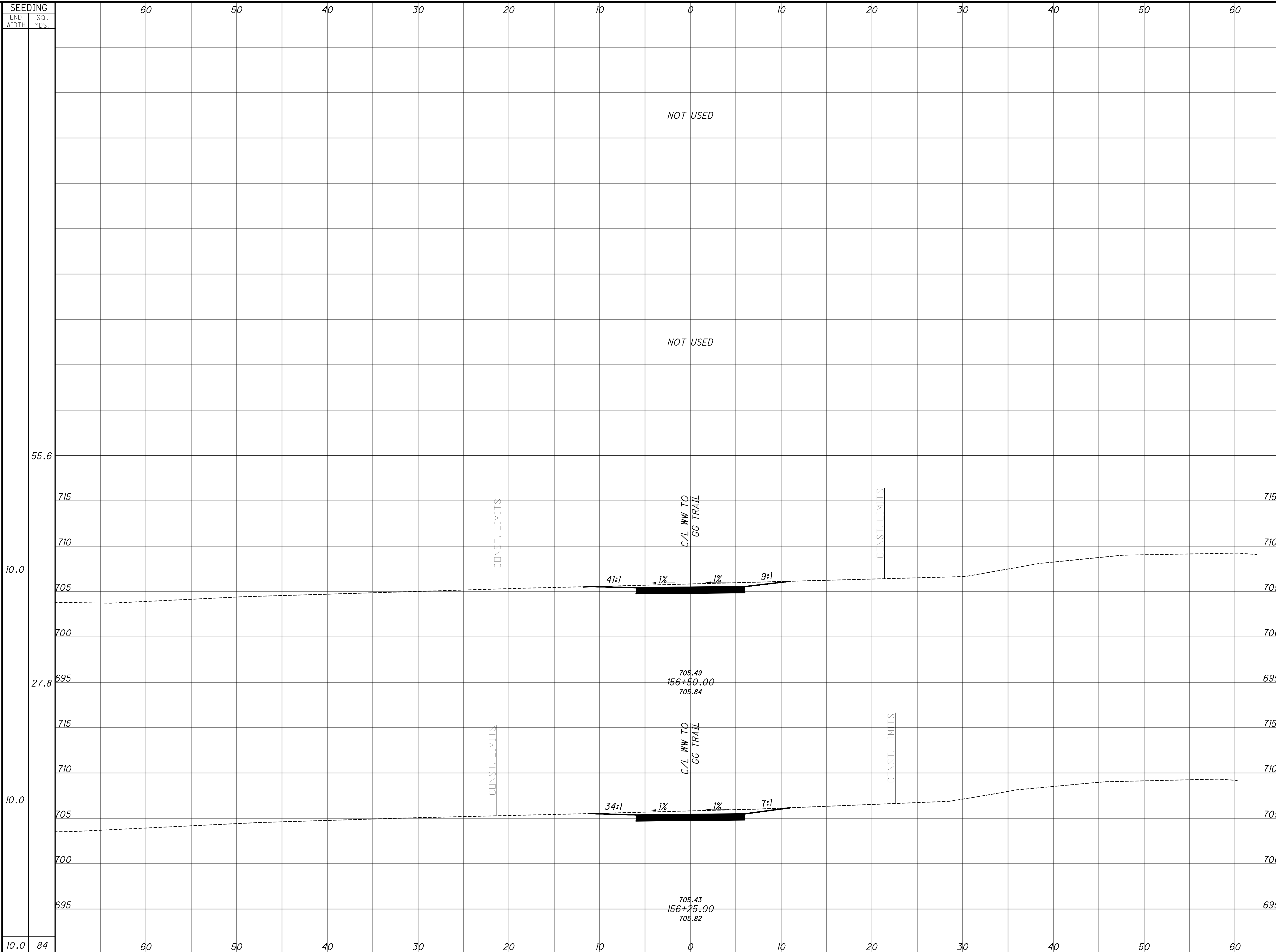
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SHEET TOTAL  
 P.114 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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END CUT	AREA		END CUT	VOLUME	
	CUT	FILL		CUT	FILL
15.0	0.0	0.0	41	0.0	0.0
14.1	0.0	0.0	13.5	0.0	0.0
10.0	0.0	0.0	13.5	0.0	0.0
10.0	0.0	0.0	15.0	0.0	0.0
10.0	0.0	0.0	15.0	0.0	0.0

CROSS SECTIONS - WW TO GG  
STA. 156+25.00 TO STA. 156+50.00

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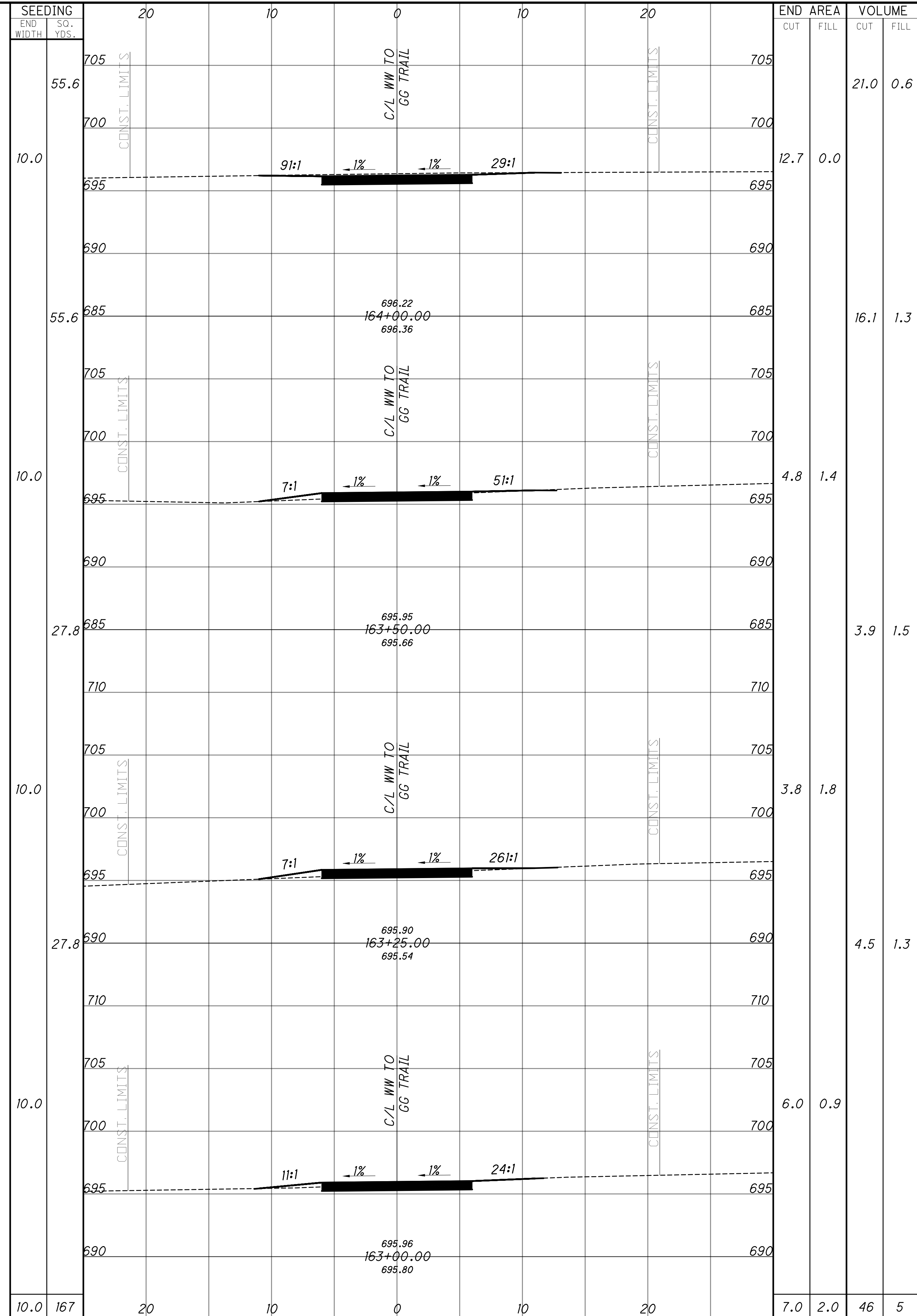
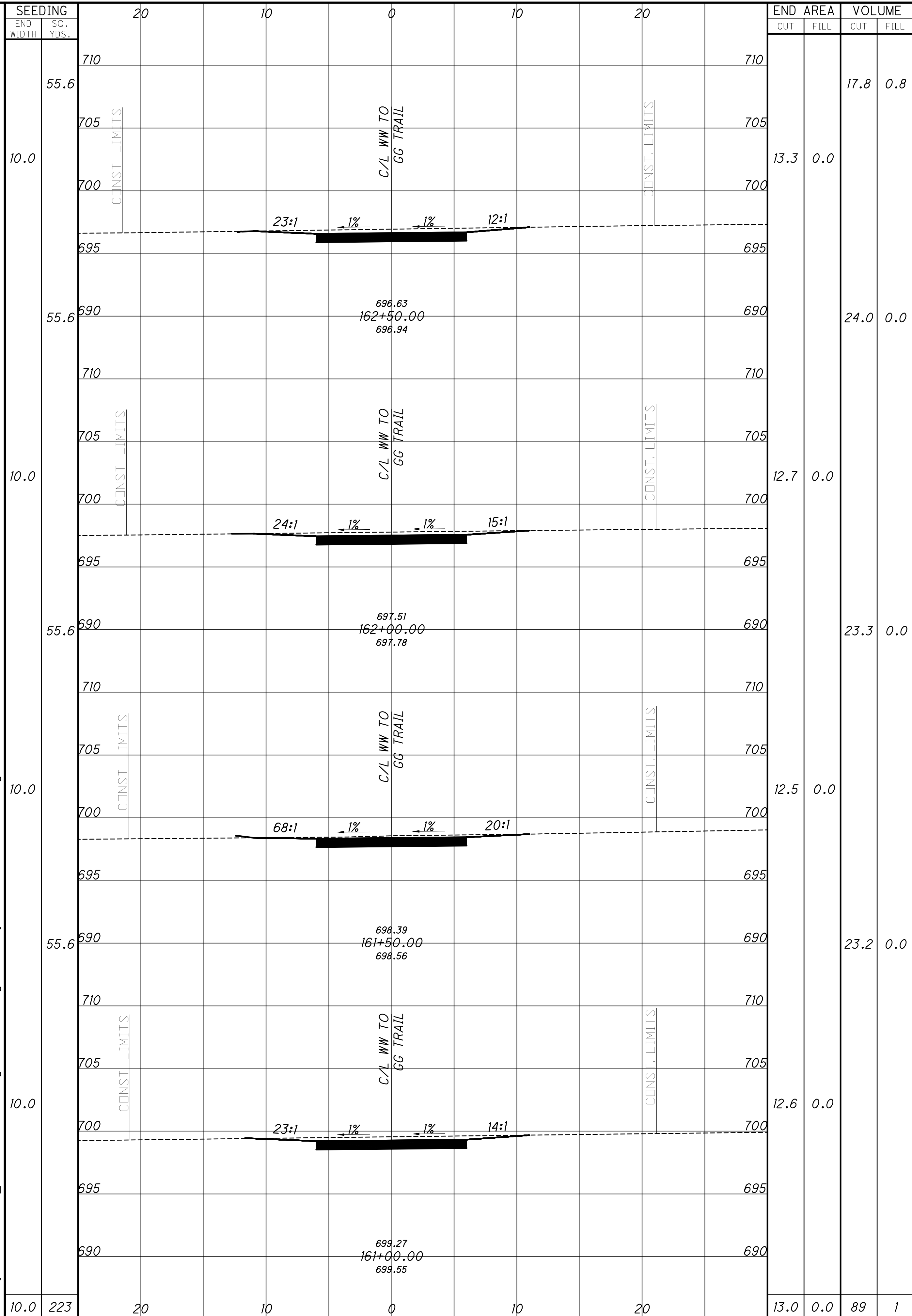
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SCR 4/1/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.115 210





HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 161+00.00 TO STA. 164+00.00

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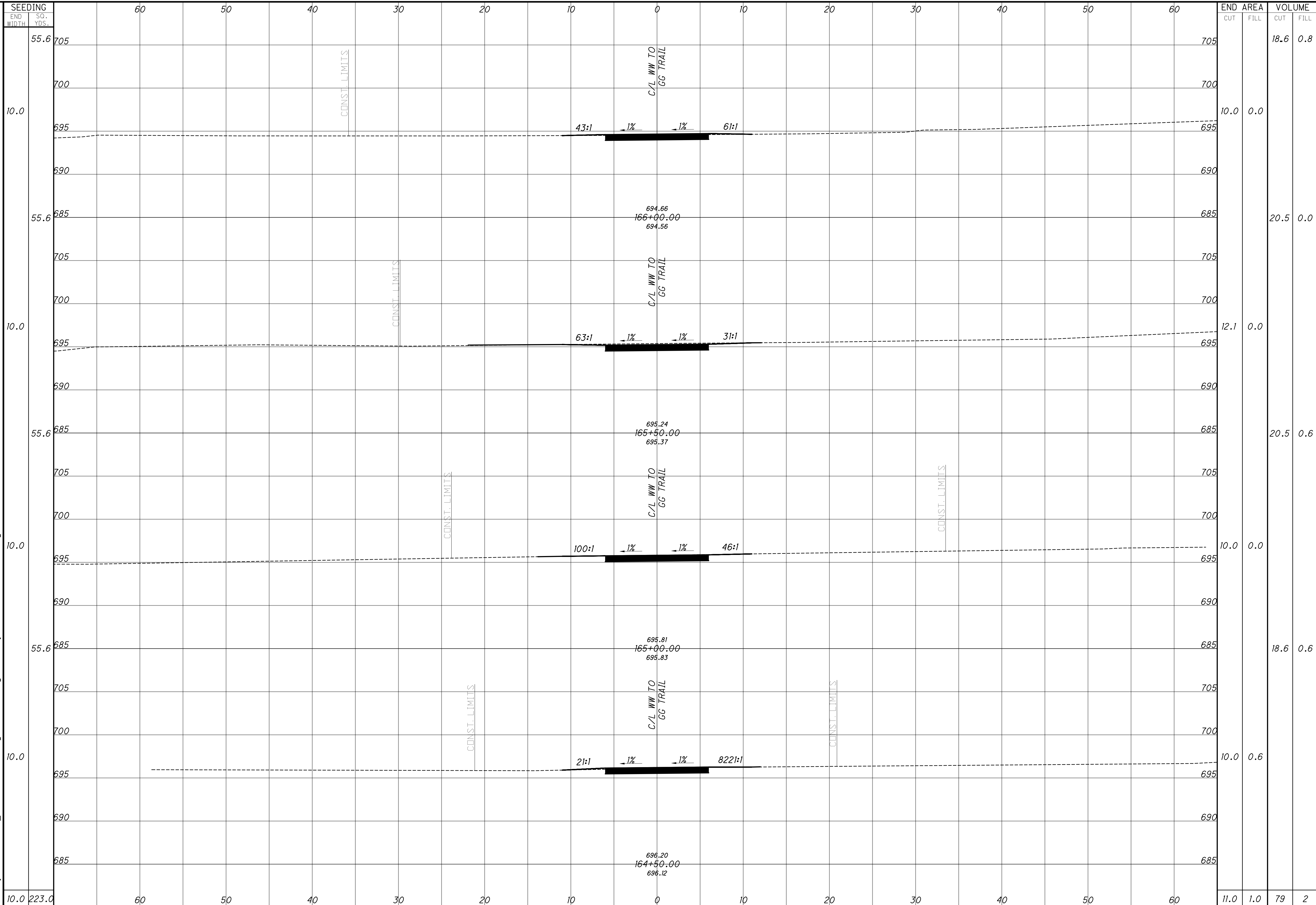
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SHEET TOTAL  
P.117 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
55.6	705	705	18.6	0.8
10.0	695	695	0.0	0.0
55.6	685	685	20.5	0.0
10.0	695	695	12.1	0.0
55.6	685	685	20.5	0.6
10.0	695	695	10.0	0.0
55.6	685	685	18.6	0.6
10.0	695	695	10.0	0.6
10.0	685	685	11.0	1.0
223.0			79	2

CROSS SECTIONS - WW TO GG  
STA. 164+50.00 TO STA. 166+00.00

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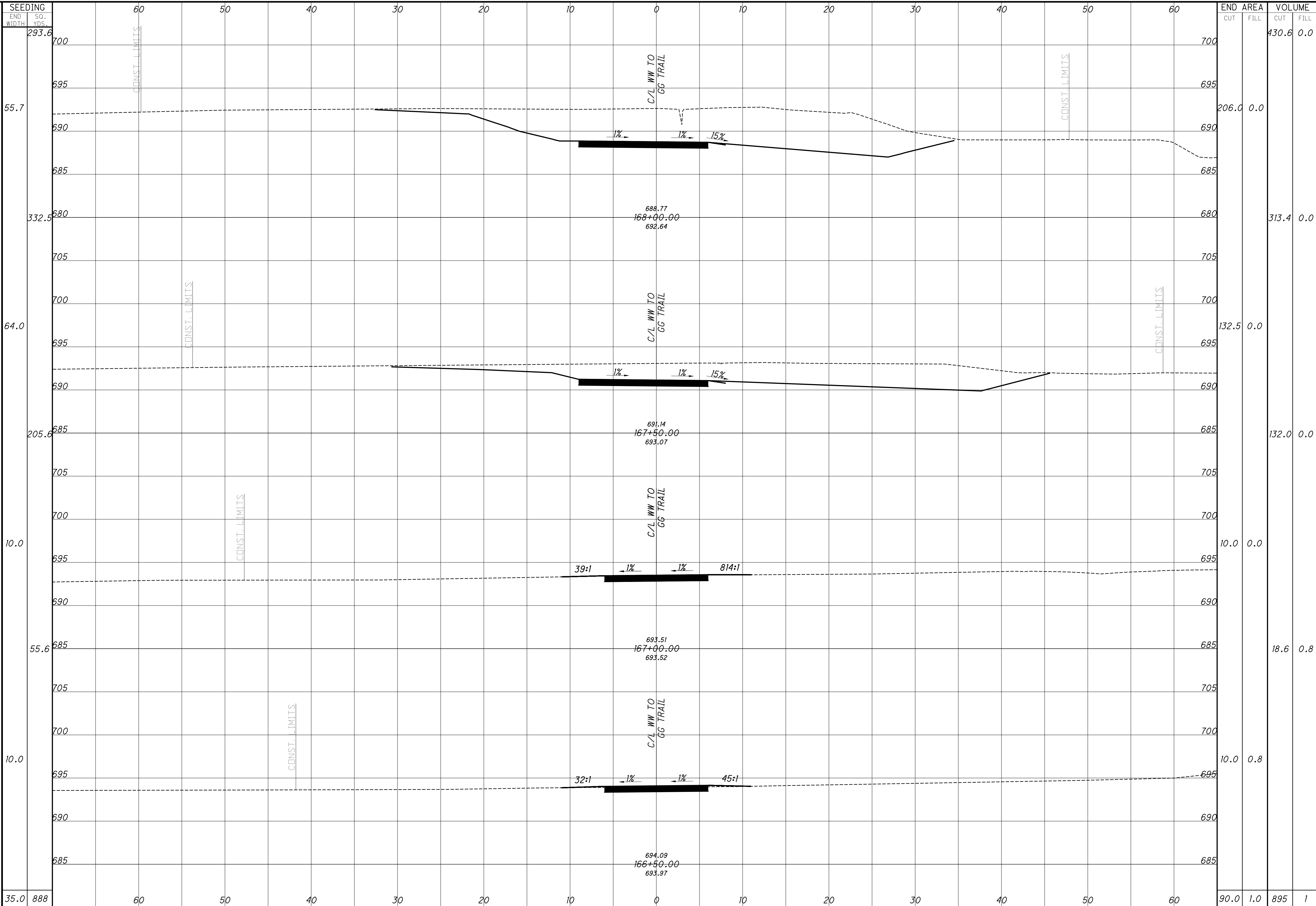
REVIEWER  
**SCR 4/1/2024**

PROJECT ID  
**117016**

SHEET TOTAL  
**P.118 210**

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 166+50.00 TO STA. 168+00.00

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
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DESIGNER  
 SCR

REVIEWER  
 SCR 4/1/2024

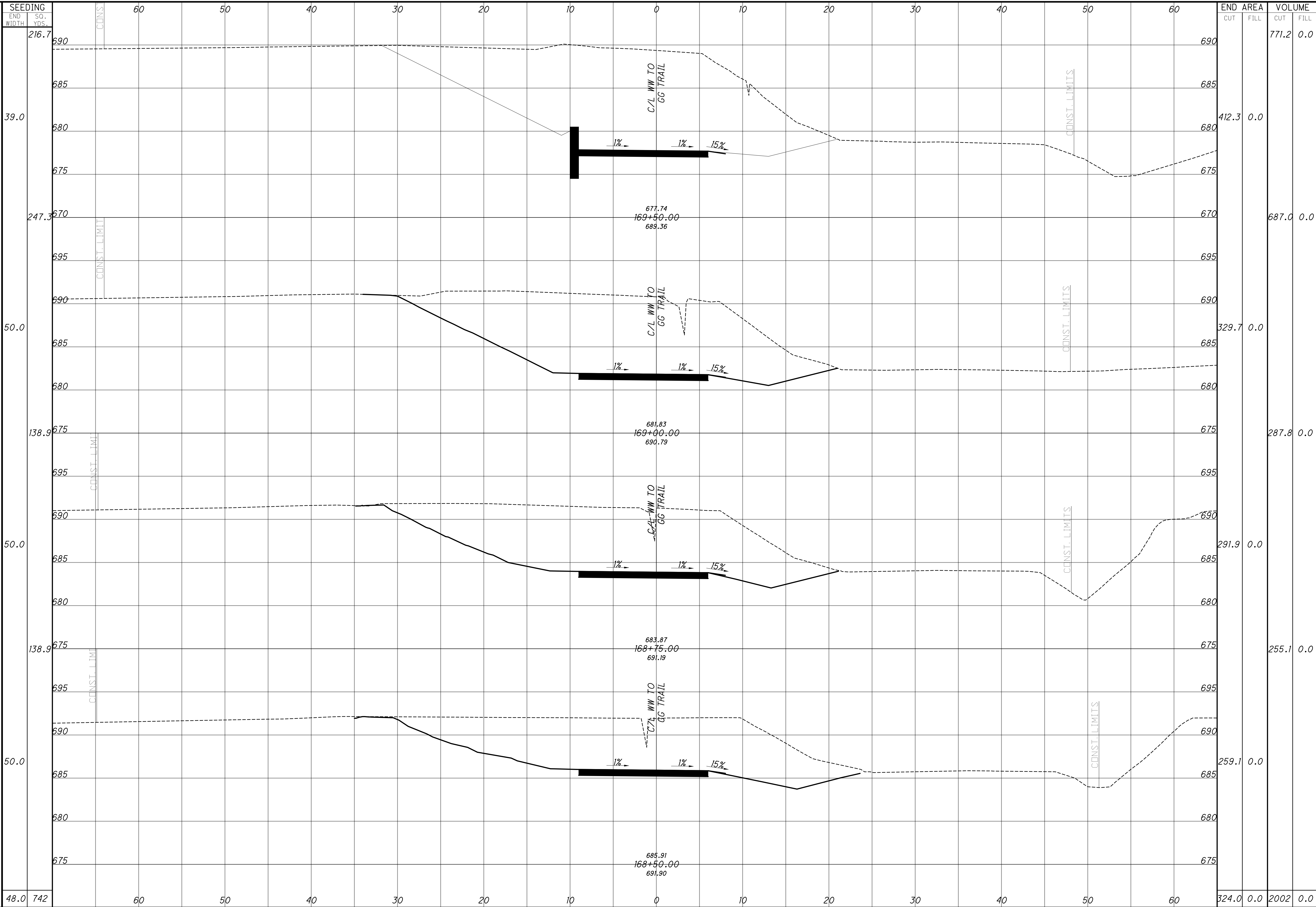
PROJECT ID  
 117016

SHEET TOTAL  
 P.119 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 168+50.00 TO STA. 169+50.00

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700 Broadway Street  
Cincinnati, OH 45202-6010  
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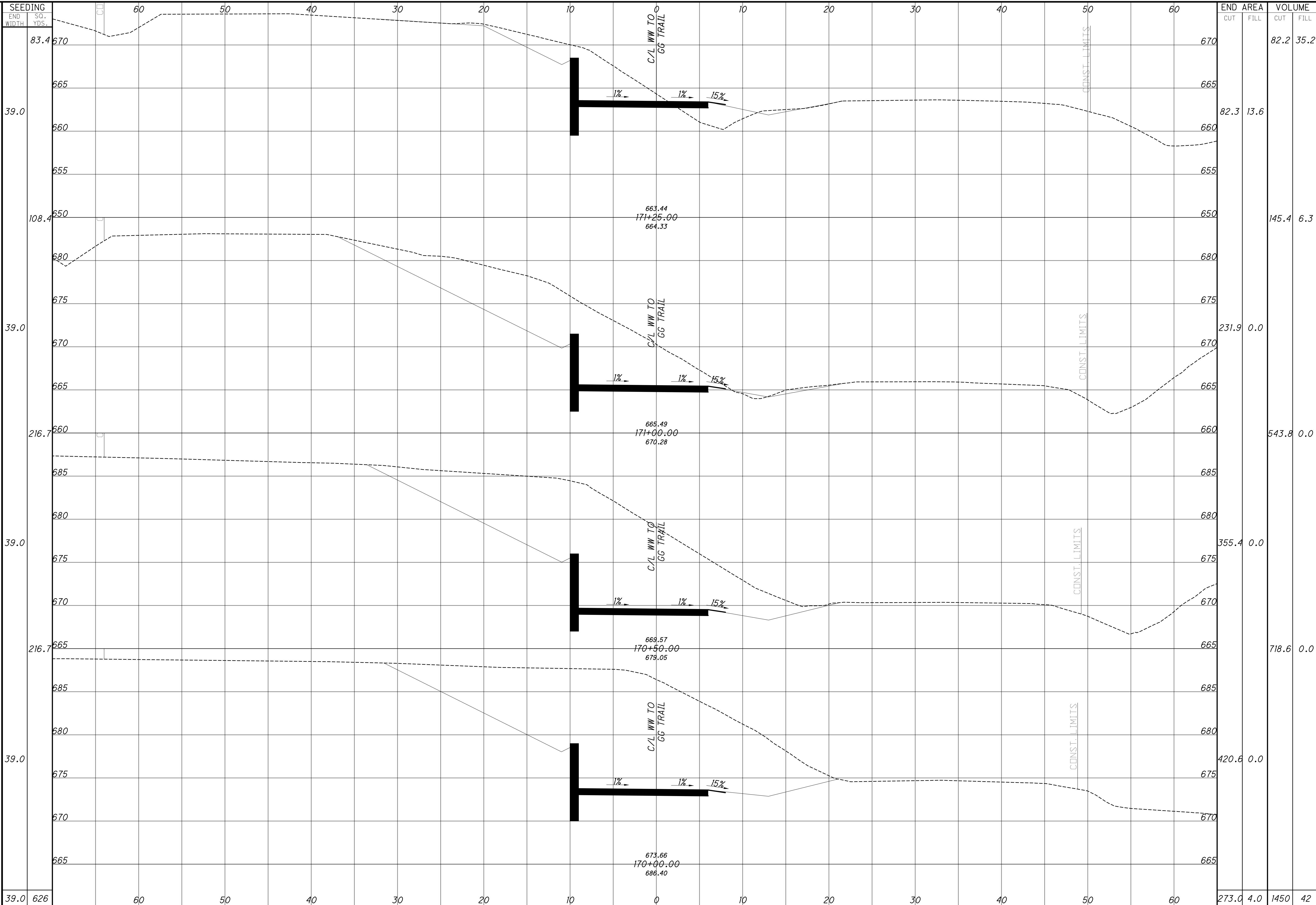
REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

SHEET TOTAL  
P.120 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 170+00.00 TO STA. 171+25.00

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REVIEWER  
SCR 4/1/2024

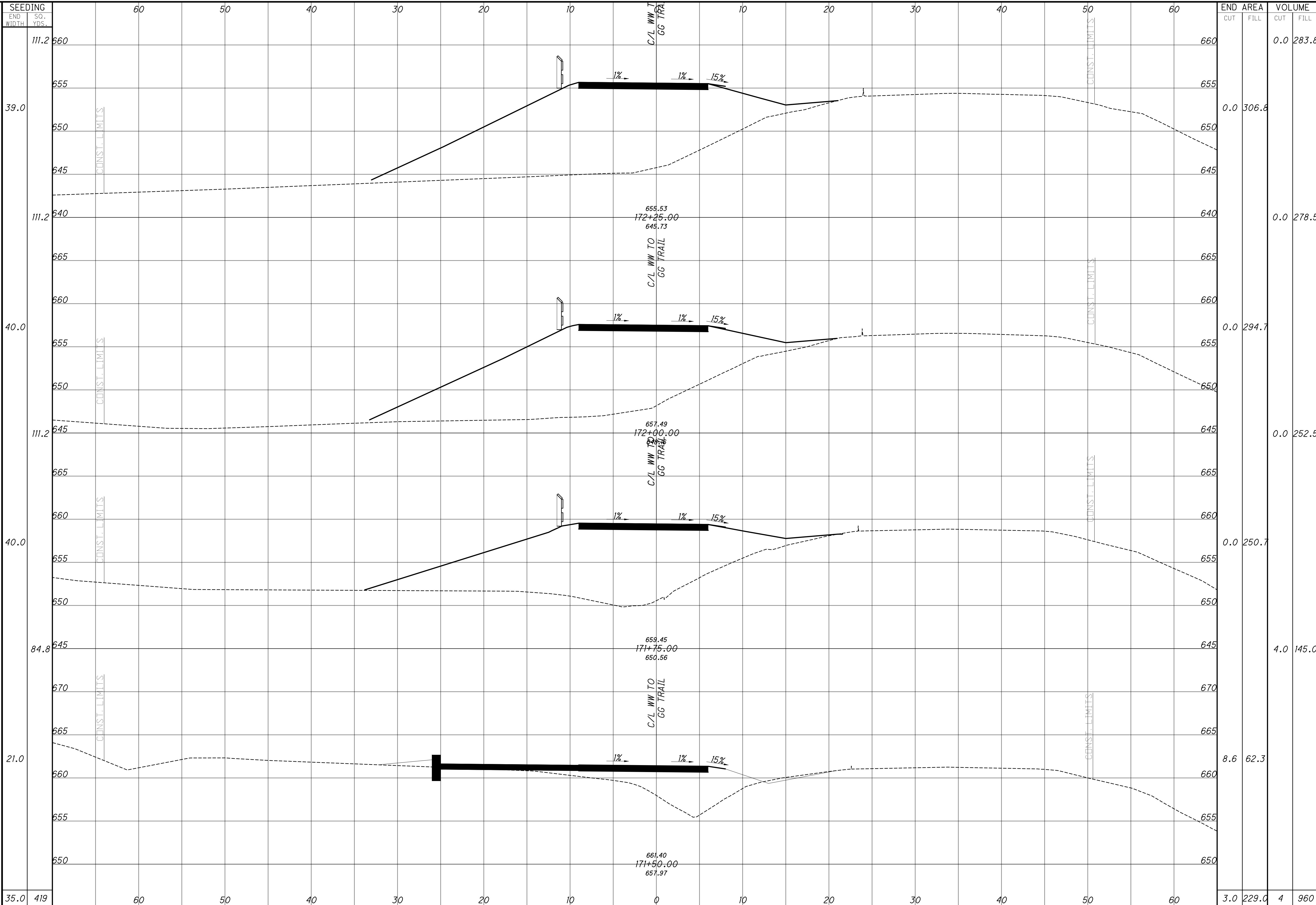
PROJECT ID  
117016

SHEET TOTAL  
P.121 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	
END WIDTH	SQ. YDS.
35.0	419

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0.0	306.8	0.0	283.8
0.0	278.5	0.0	278.5
0.0	294.7	0.0	252.5
0.0	250.7	4.0	145.0
3.0	229.0	4	960

CROSS SECTIONS - WW TO GG  
 STA. 171+50.00 TO STA. 172+25.00

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DESIGNER  
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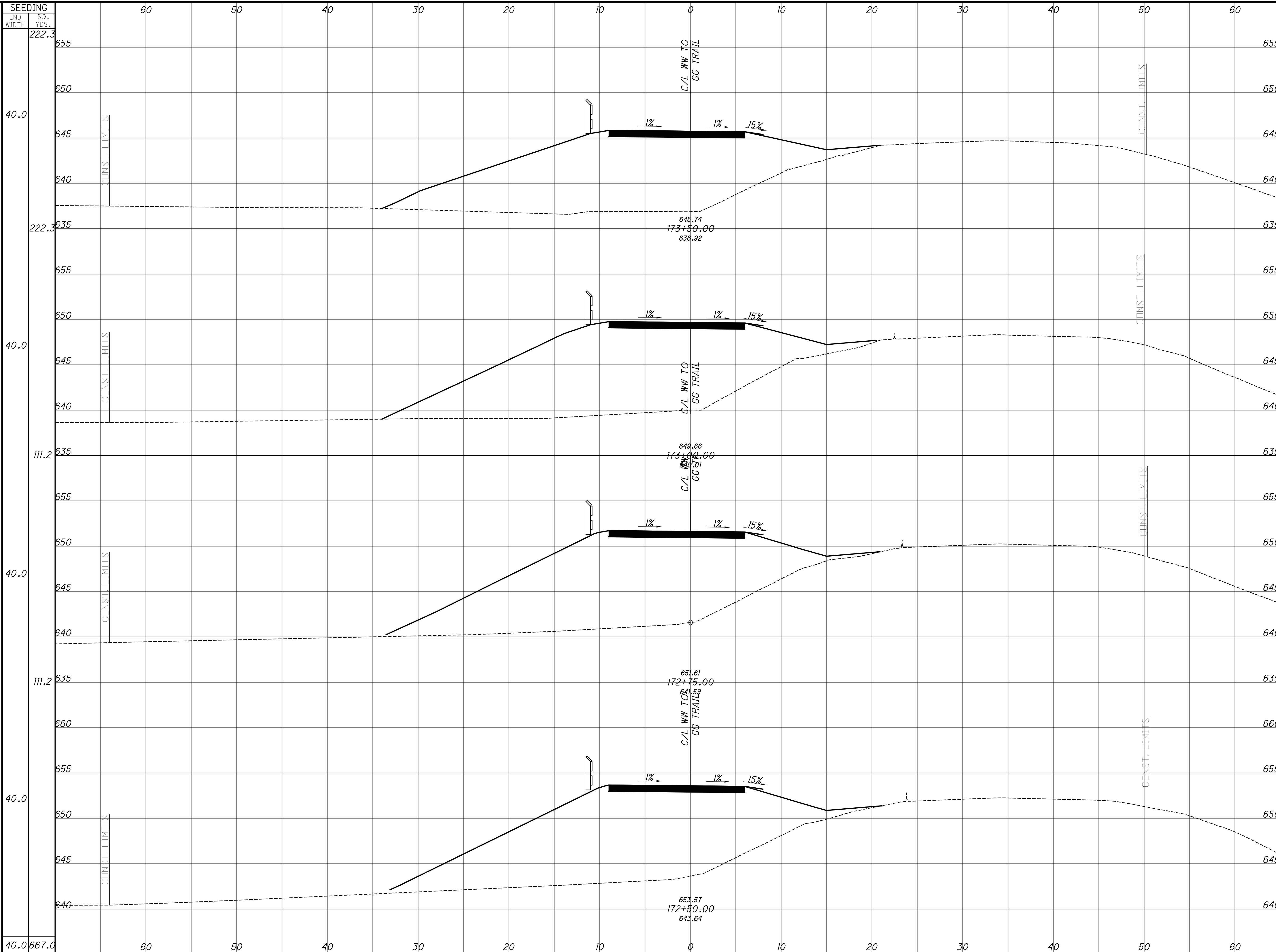
REVIEWER  
 SCR 4/1/2024

PROJECT ID  
 117016

SHEET TOTAL  
 P.122 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
222.3	0.0	0.0	0.0	424.8
222.3	0.0	0.0	0.0	278.8
222.3	0.0	0.0	0.0	540.1
111.2	0.0	0.0	0.0	304.6
111.2	0.0	0.0	0.0	284.0
111.2	0.0	0.0	0.0	309.0
111.2	0.0	0.0	0.0	284.8
40.0	0.0	0.0	0.0	306.2
40.0	0.0	0.0	0.0	1534

CROSS SECTIONS - WW TO GG  
 STA. 172+50.00 TO STA. 173+50.00

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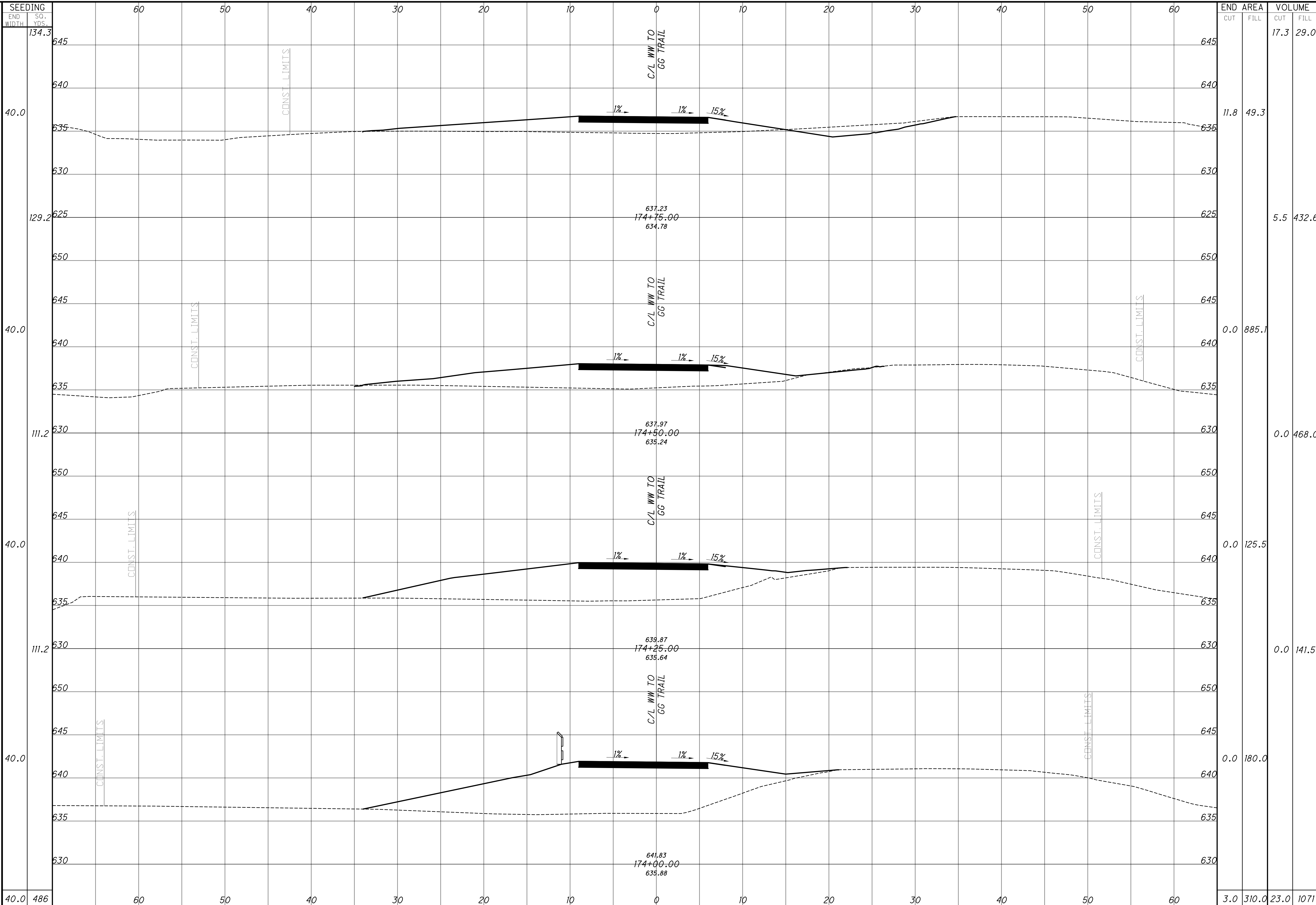
PROJECT ID  
 117016

SHEET TOTAL  
 P.123 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
134.3	645	11.8	49.3	17.3	29.0
129.2	625	5.5	432.6		
111.2	645	0.0	885.7		
111.2	630	0.0	468.0		
111.2	630	0.0	125.5		
111.2	630	0.0	141.5		
111.2	630	0.0	180.0		
40.0	630	3.0	310.0	23.0	1071

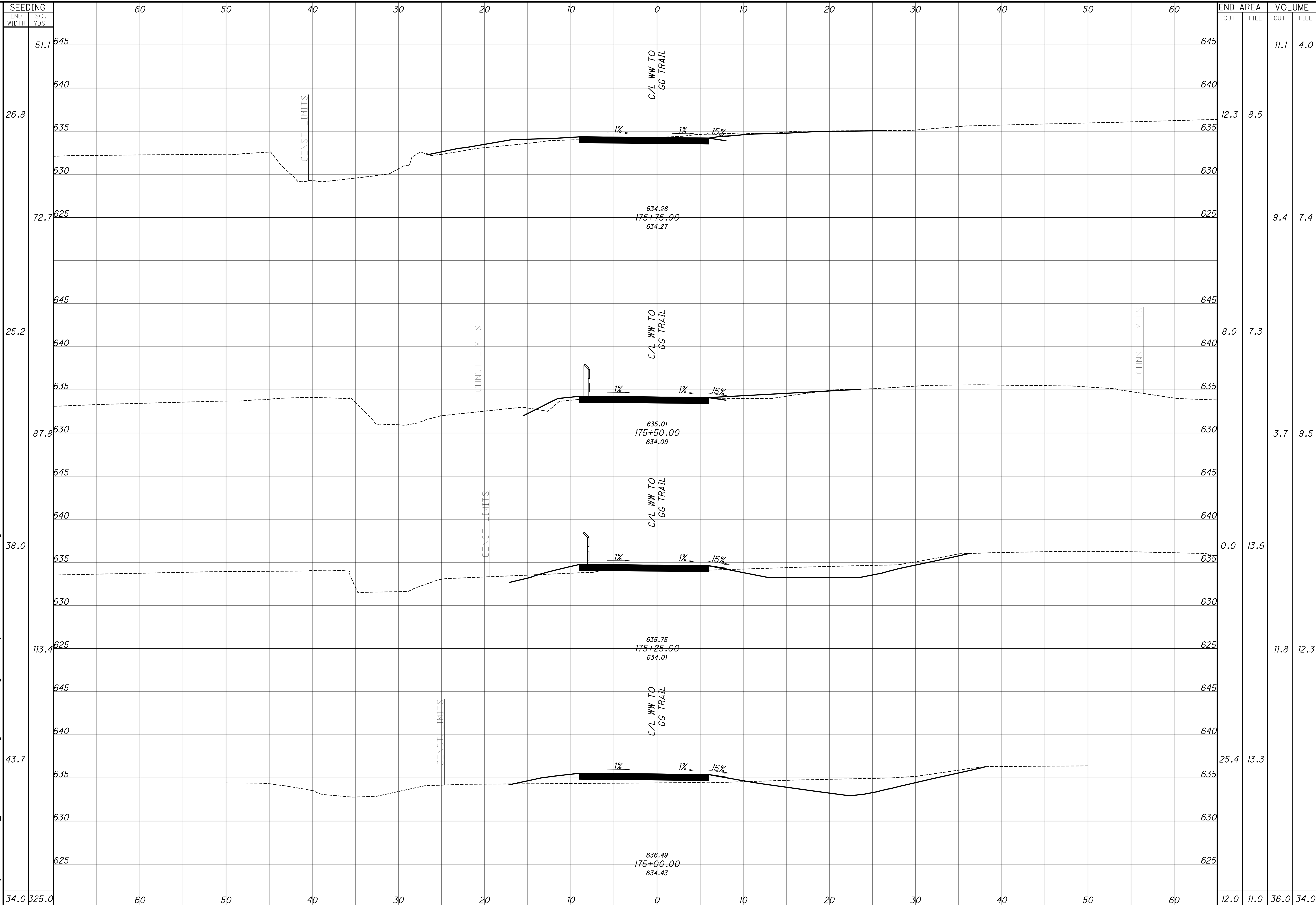
40.0	486	3.0	310.0	23.0	1071
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CROSS SECTIONS - WW TO GG  
STA. 174+00.00 TO STA. 174+75.00

DESIGN AGENCY	<b>KZFJ-SIG</b> Designing Better Futures
DESIGNER	SCR
REVIEWER	SCR 4/1/2024
PROJECT ID	117016
SHEET	P.124
TOTAL	210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTION - WW TO GG  
STA. 175+00.00 TO STA. 175+75.00

DESIGN AGENCY  
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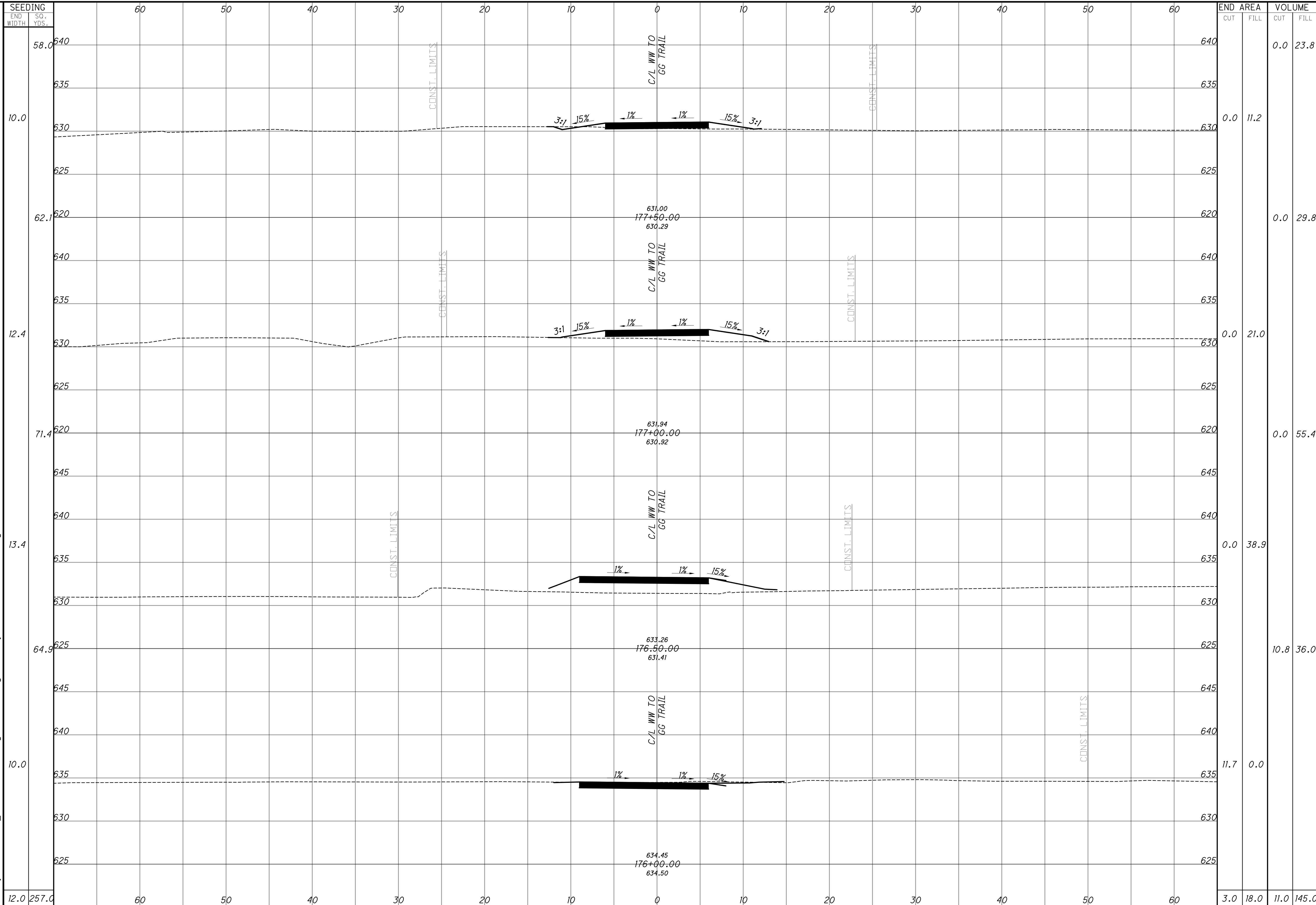
PROJECT ID  
 117016

SHEET TOTAL  
 P.125 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	
END WIDTH	SO. YDS.
12.0	257.0

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0.0	11.2	0.0	23.8
0.0	21.0	0.0	29.8
0.0	55.4	0.0	55.4
0.0	38.9	0.0	38.9
10.8	36.0	10.8	36.0
11.7	0.0	11.7	0.0
3.0	18.0	11.0	145.0

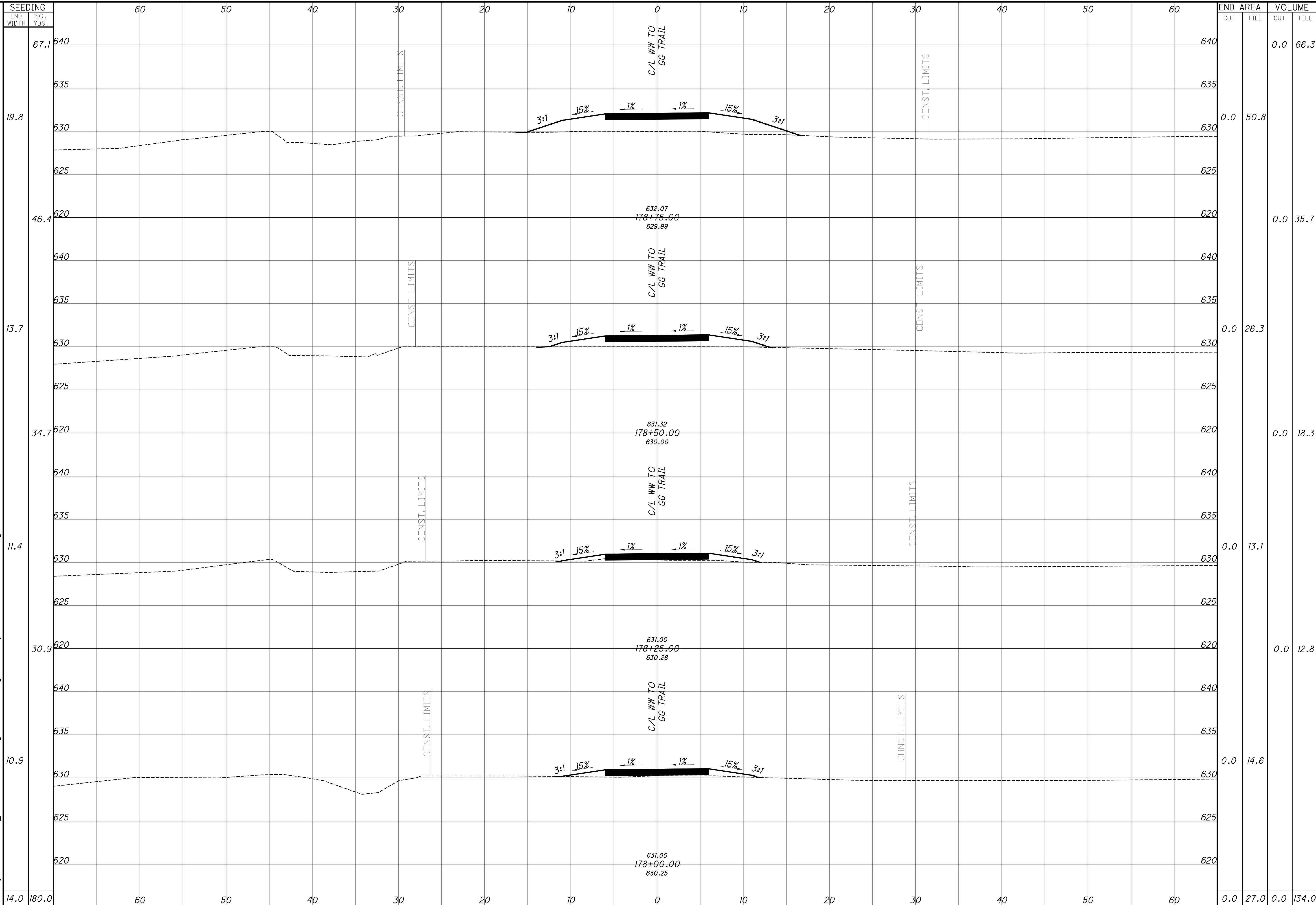
CROSS SECTIONS - WW TO GG  
STA. 176+00.00 TO STA. 177+50.00

DESIGN AGENCY  
**KZFJ-SIG**  
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DESIGNER  
SCR  
REVIEWER  
SCR 4/1/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.126 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 178+00.00 TO STA. 178+75.00

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SCR 4/1/2024

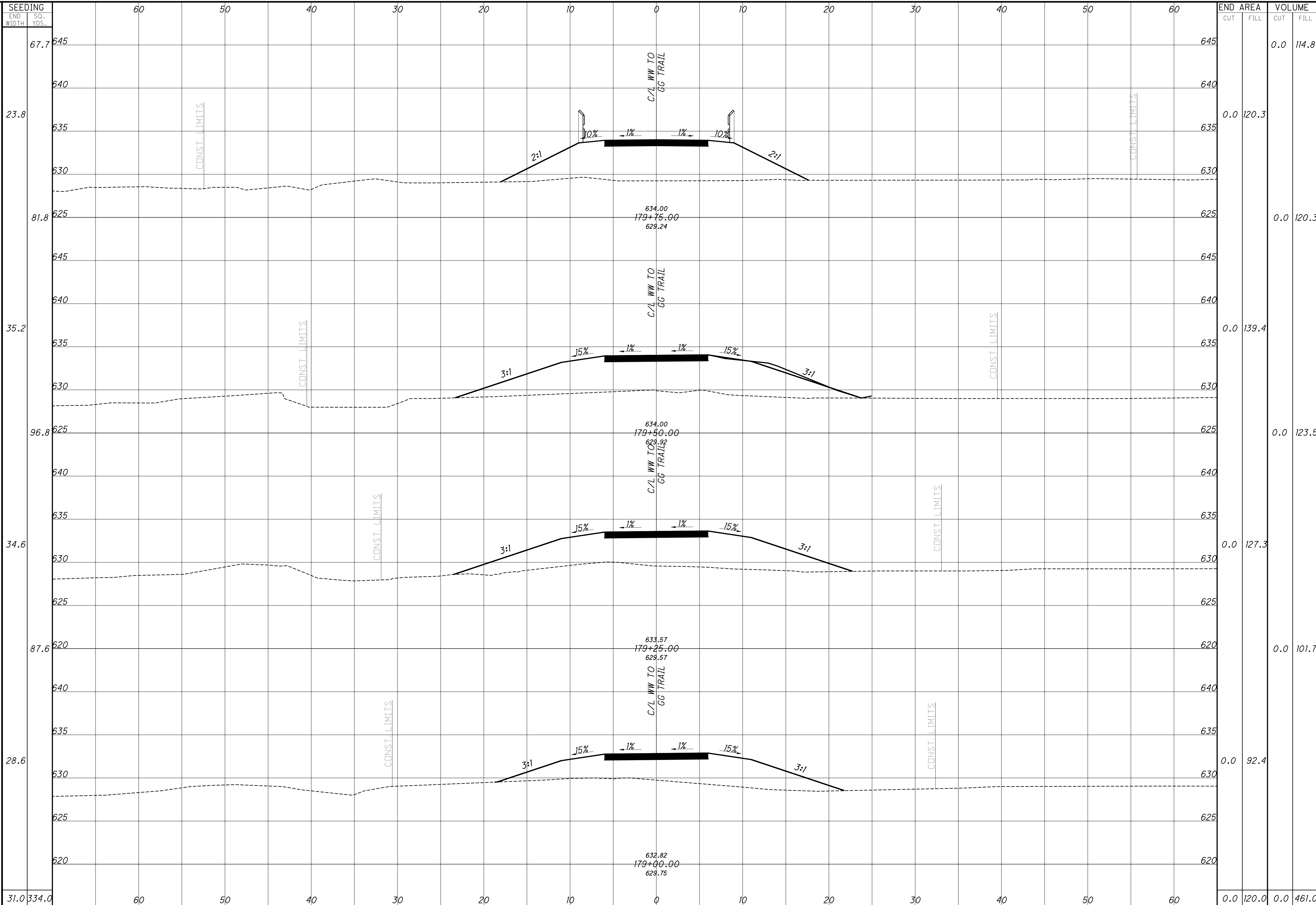
PROJECT ID  
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SHEET TOTAL  
P.126 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 179+00.00 TO STA. 179+75.00

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DESIGNER  
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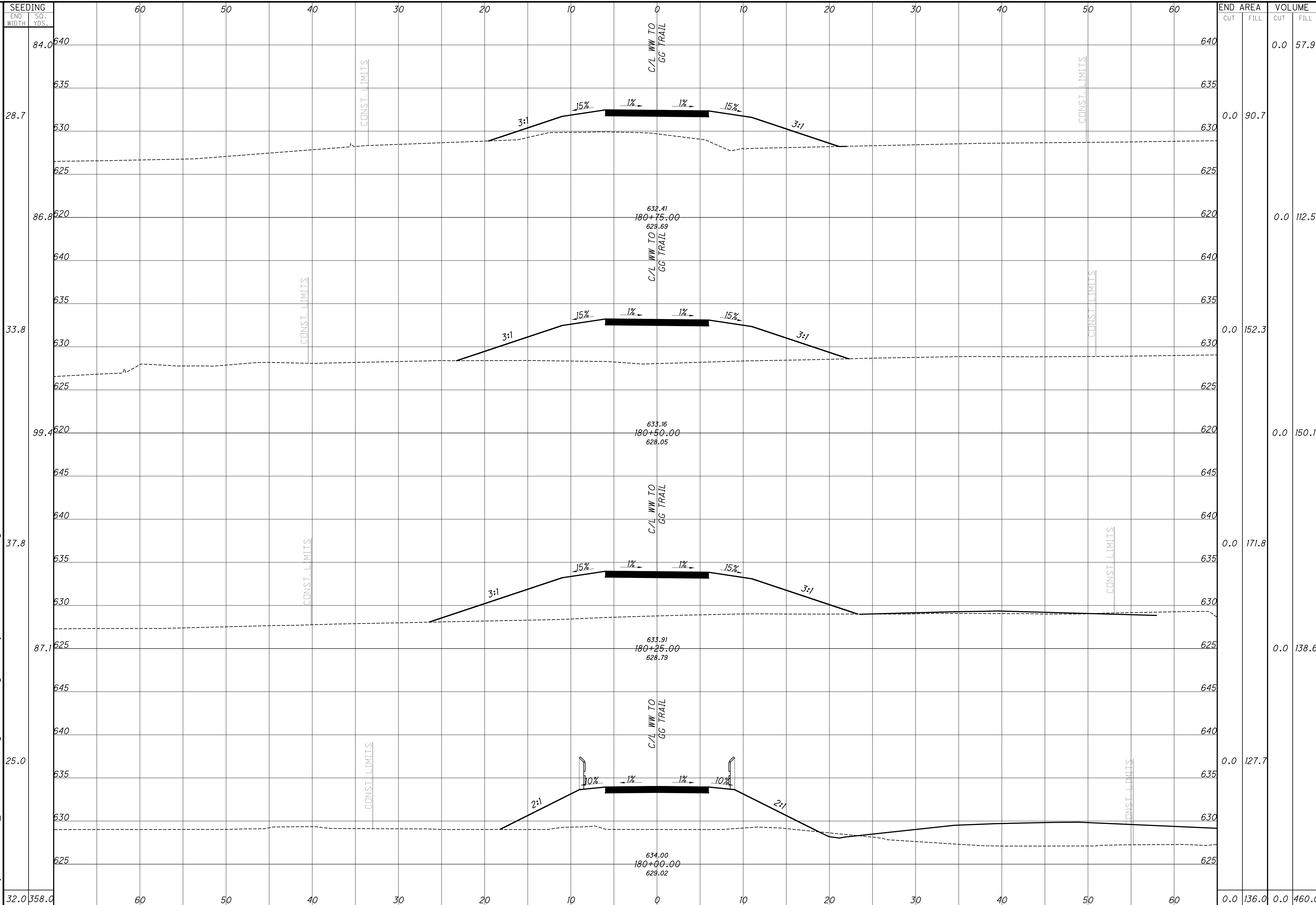
REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

SHEET TOTAL  
P.127 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
32.0	358.0	0.0	136.0	0.0	460.0

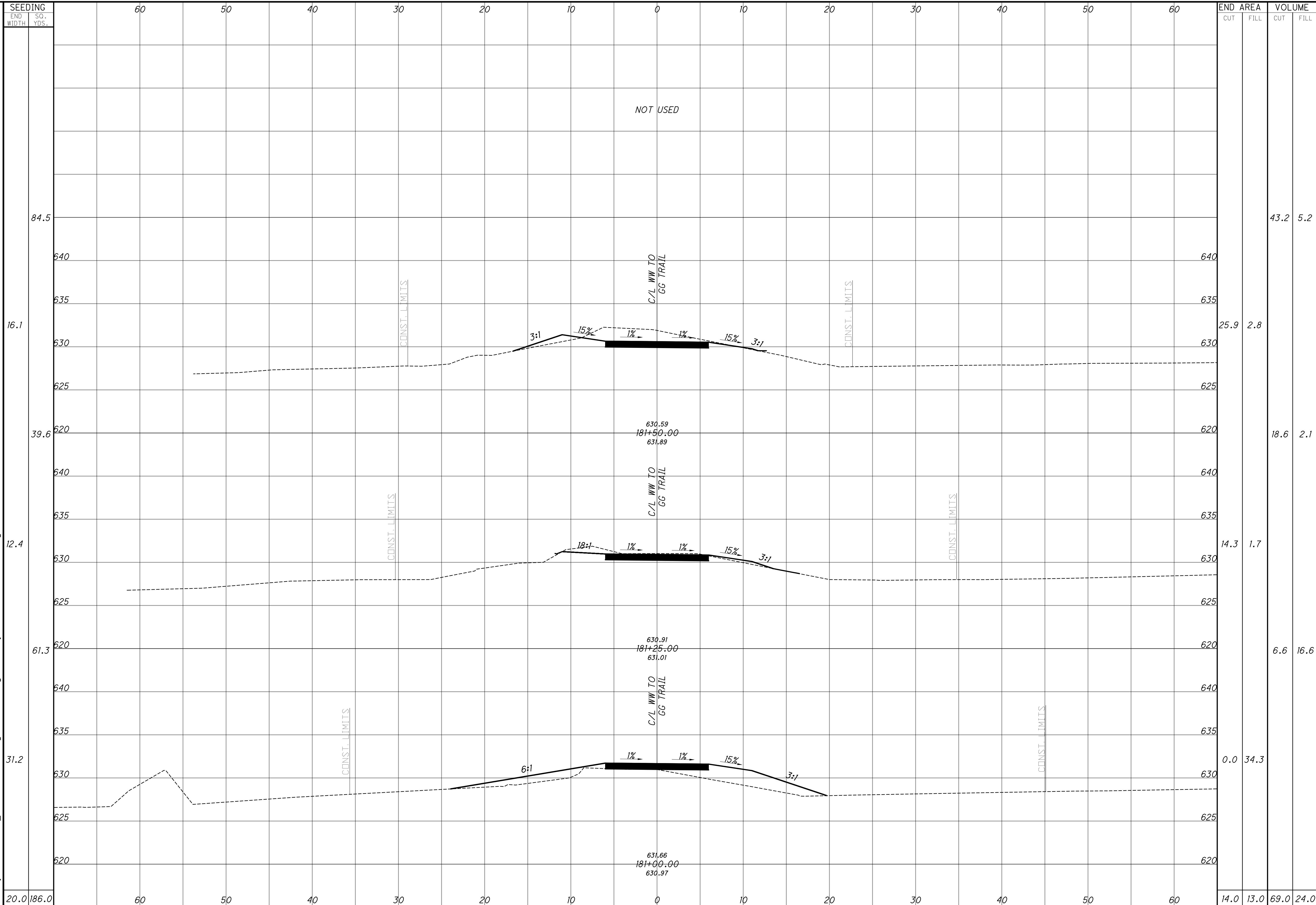
CROSS SECTIONS - WW TO GG  
STA. 180+00.00 TO STA. 180+75.00

DESIGN AGENCY	<b>KZFJ-SIG</b> Designing Better Futures
DESIGNER	SCR
REVIEWER	SCR 4/1/2024
PROJECT ID	117016
SHEET	P.128
TOTAL	210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	
END WIDTH	SO. YDS.
20.0	186.0

END AREA		VOLUME	
CUT	FILL	CUT	FILL
14.0	13.0	69.0	24.0

84.5	43.2	5.2
16.1	25.9	2.8
39.6	18.6	2.1
12.4	14.3	1.7
61.3	6.6	16.6
31.2	0.0	34.3

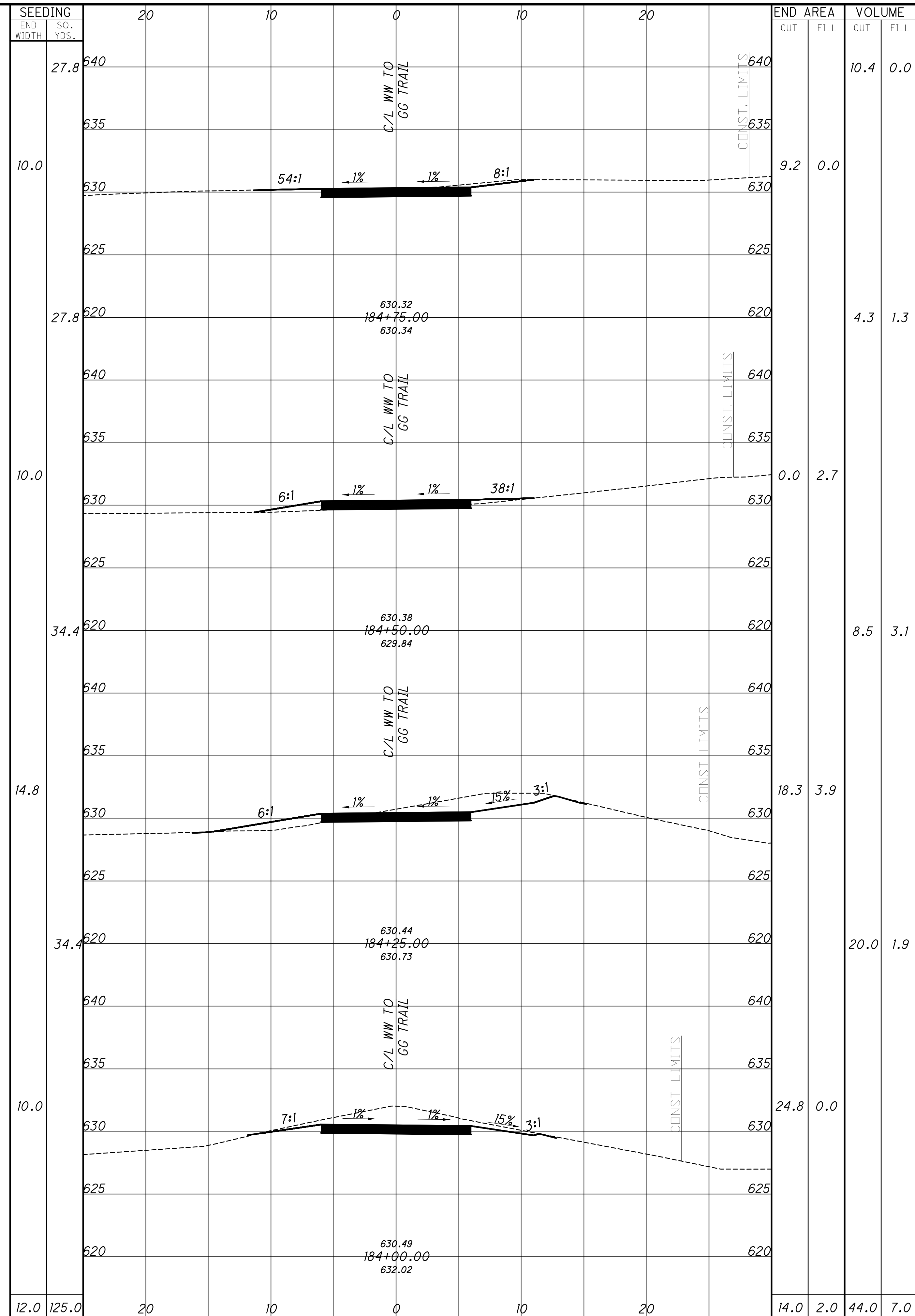
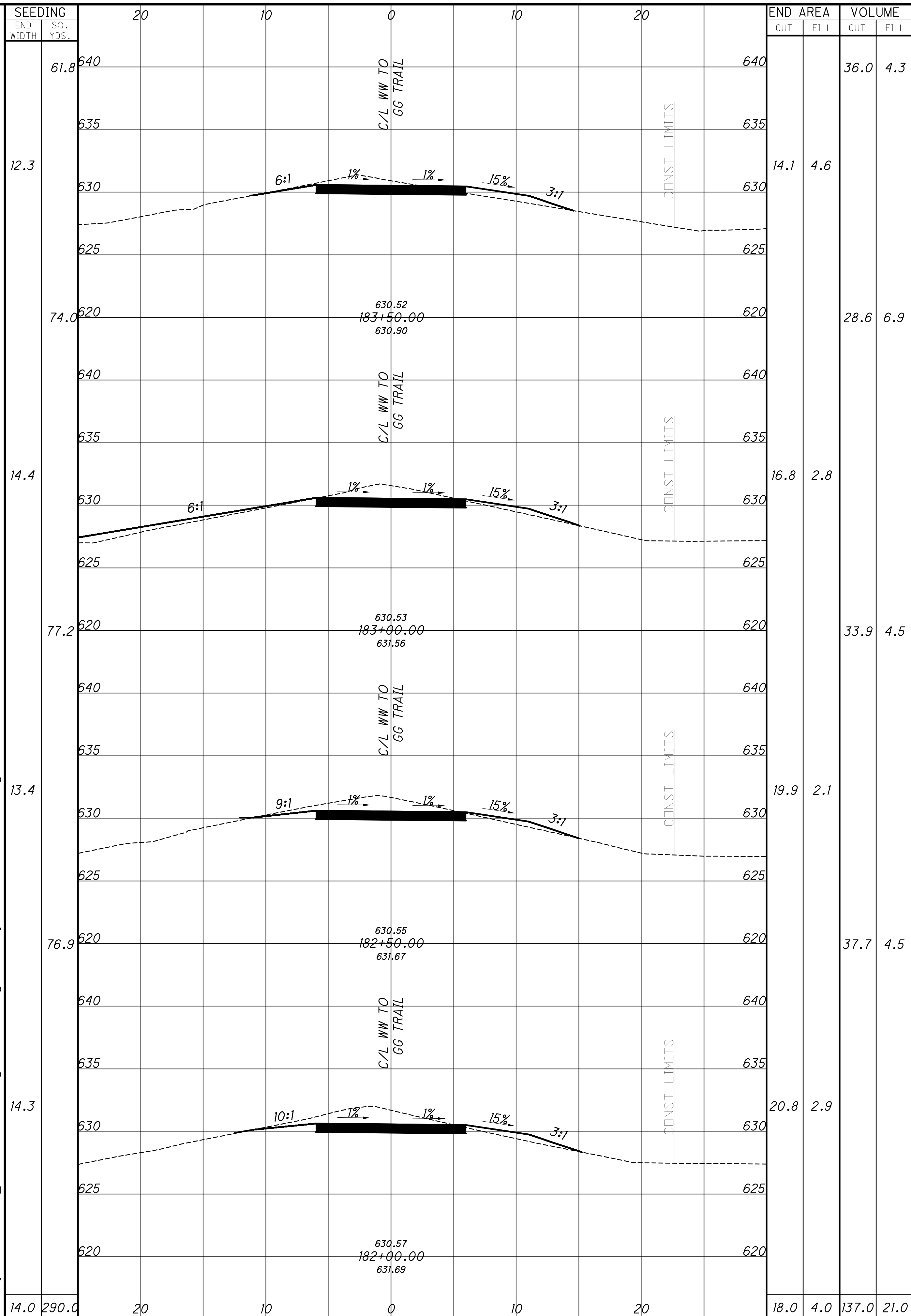
640	640
635	635
630	630
625	625
620	620
640	640
635	635
630	630
625	625
620	620
640	640
635	635
630	630
625	625
620	620

CROSS SECTIONS - WW TO GG  
STA. 181+00.00 TO STA. 181+50.00

DESIGN AGENCY	<b>KZFJ-SIG</b> Designing Better Futures
DESIGNER	SCR
REVIEWER	SCR 4/1/2024
PROJECT ID	117016
SHEET	TOTAL
P.129	210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 182+00.00 TO STA. 184+75.00

DESIGN AGENCY  
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REVIEWER  
SCR 4/1/2024

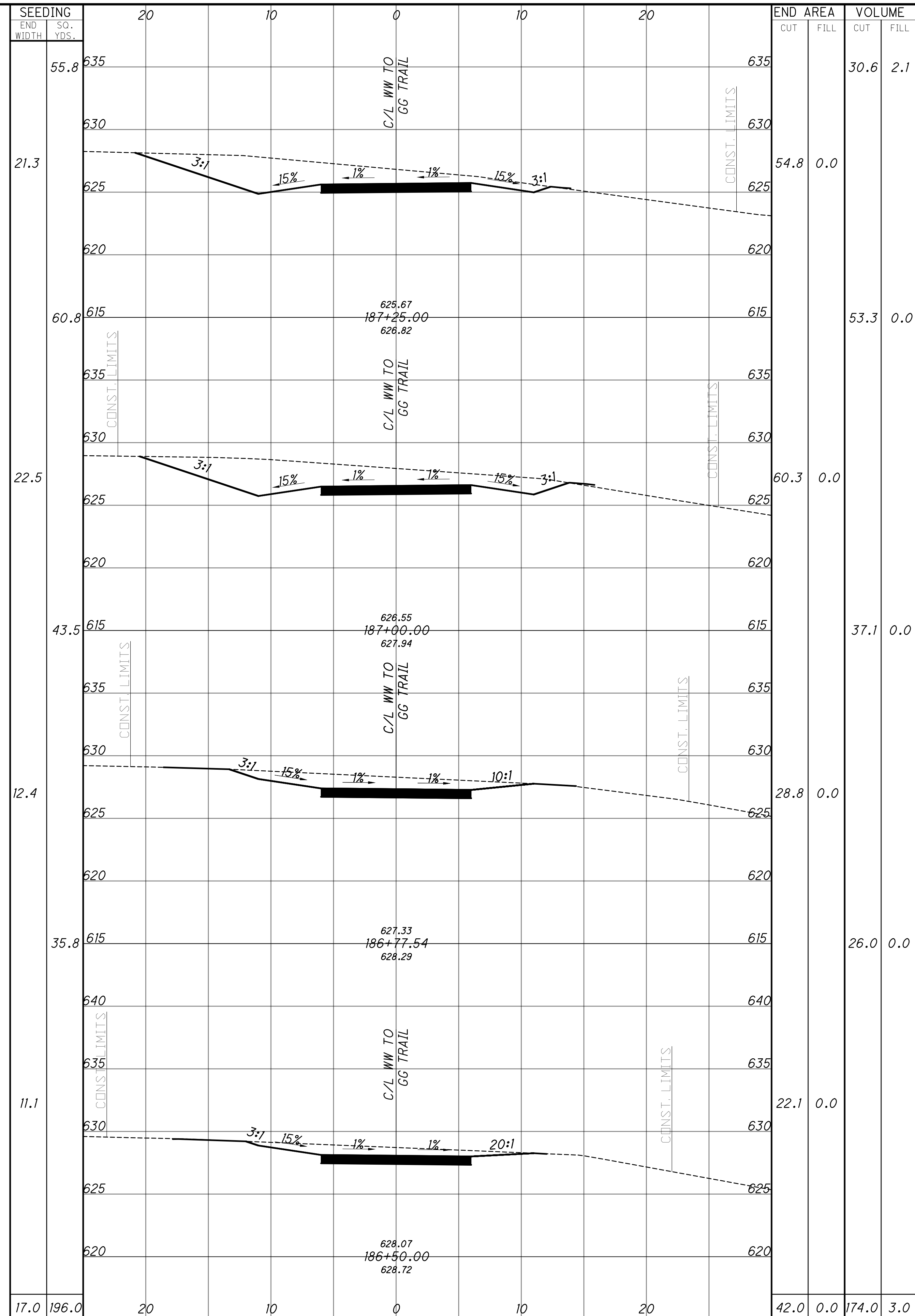
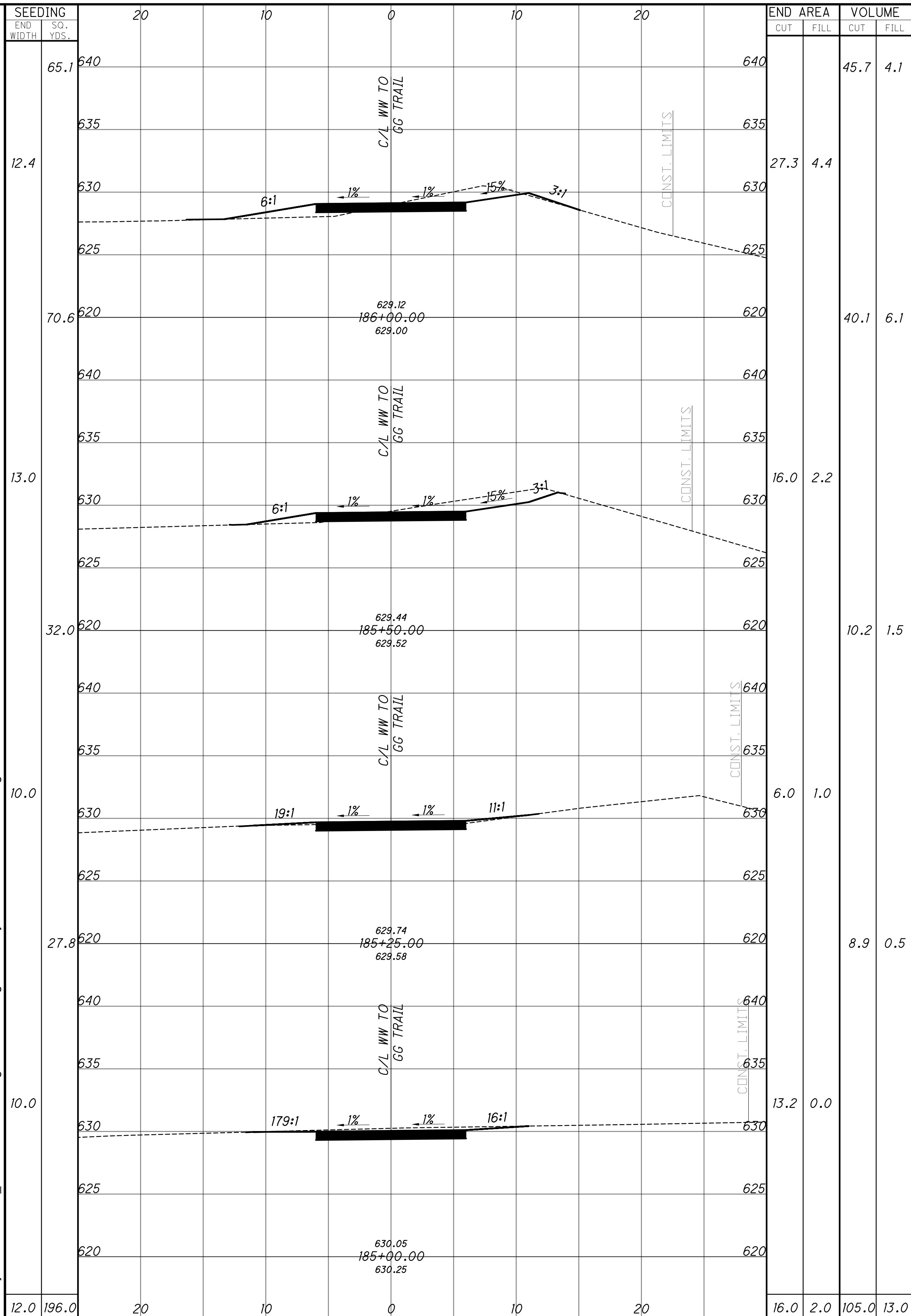
PROJECT ID  
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SHEET TOTAL  
P.130 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 185+00.00 TO STA. 187+25.00

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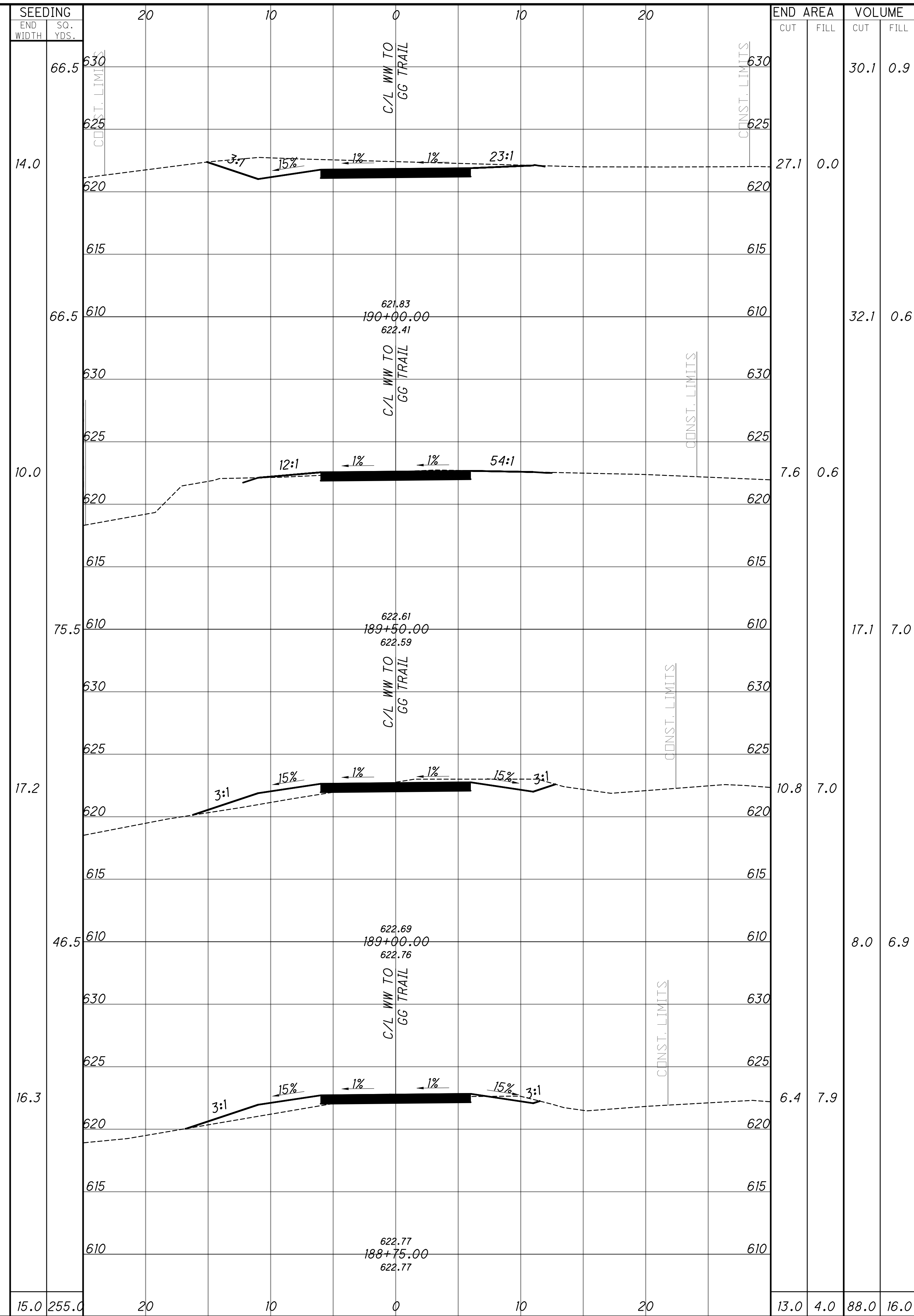
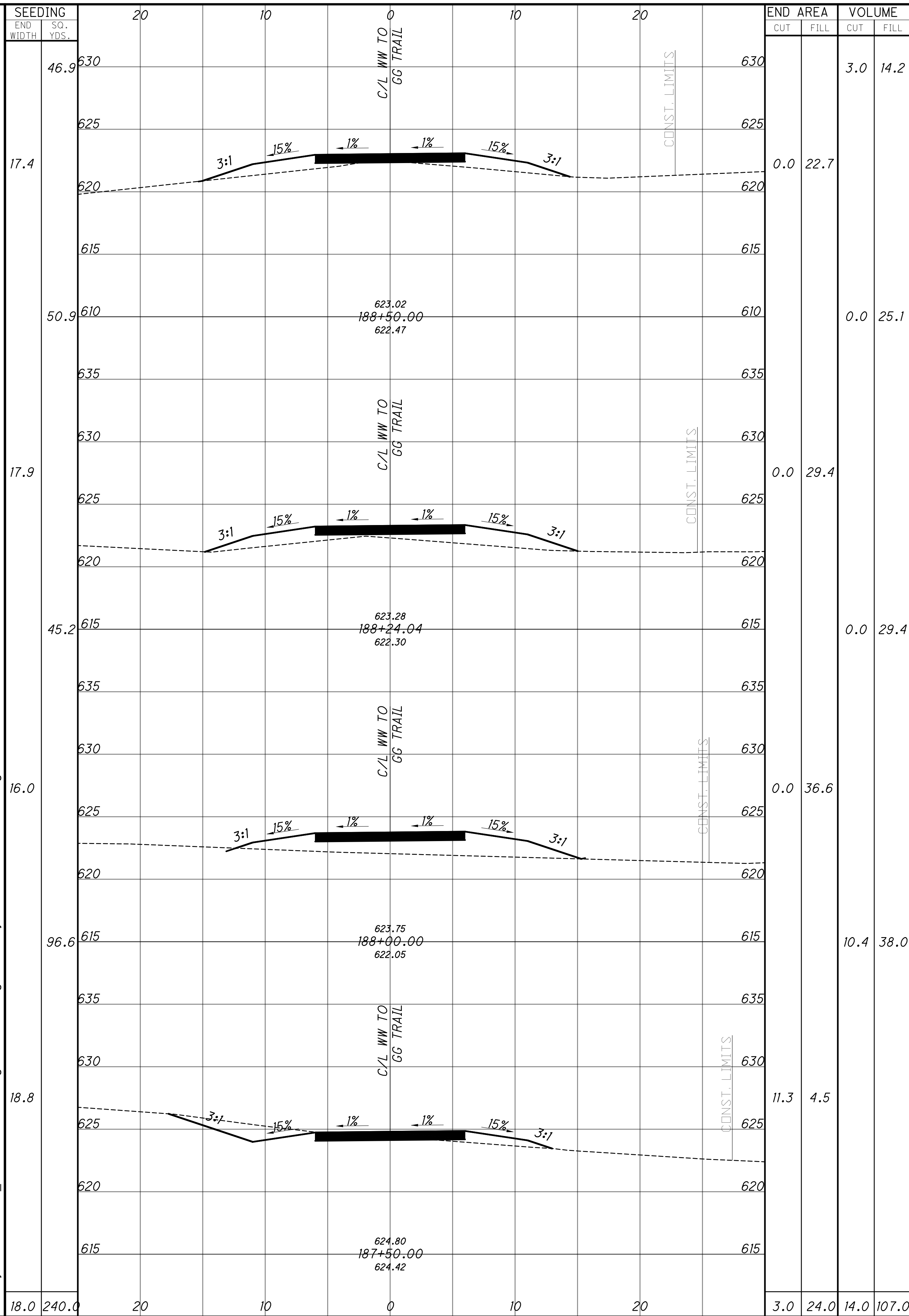
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PROJECT ID  
117016

SHEET TOTAL  
P.131 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 187+50.00 TO STA. 190+00.00

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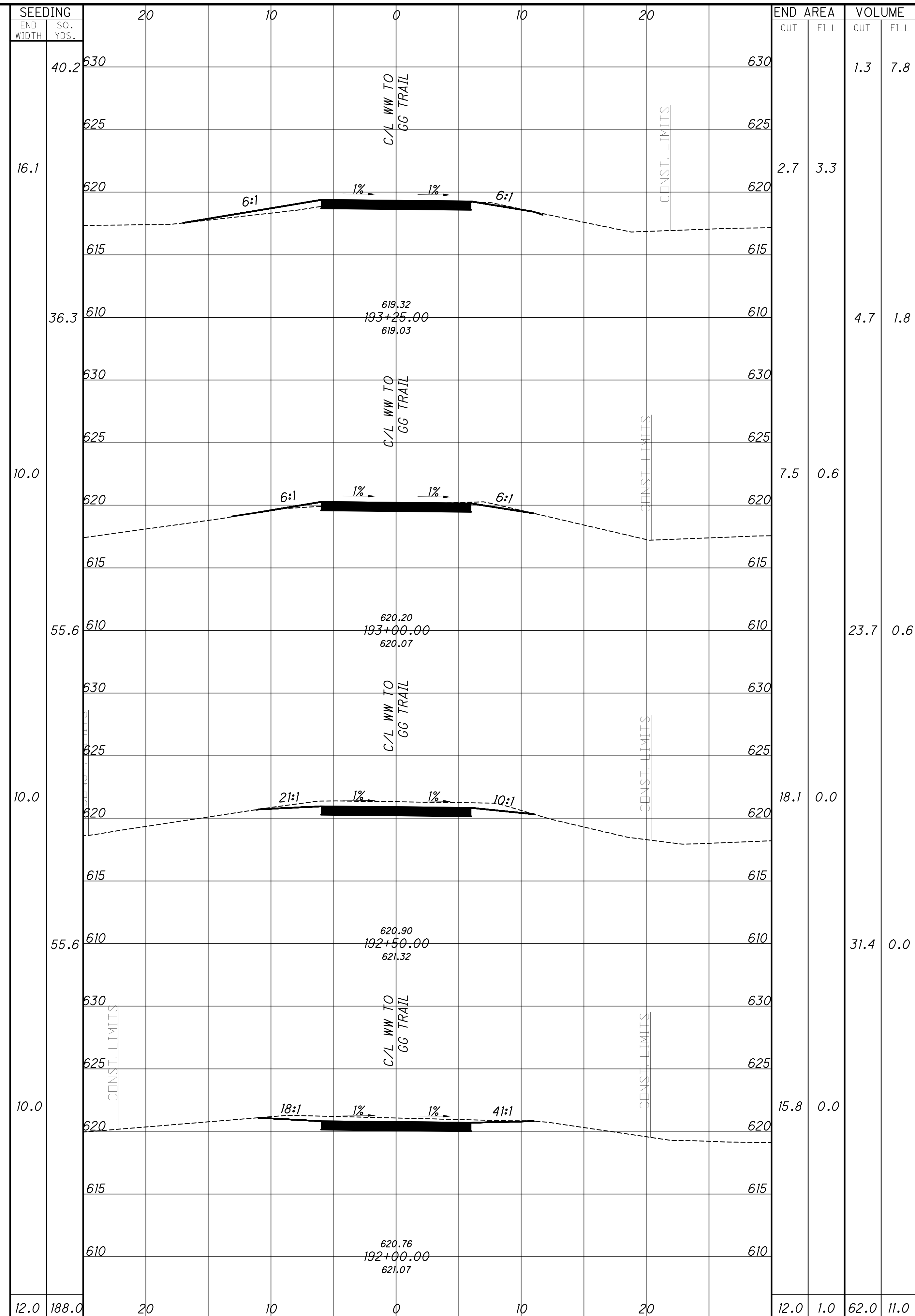
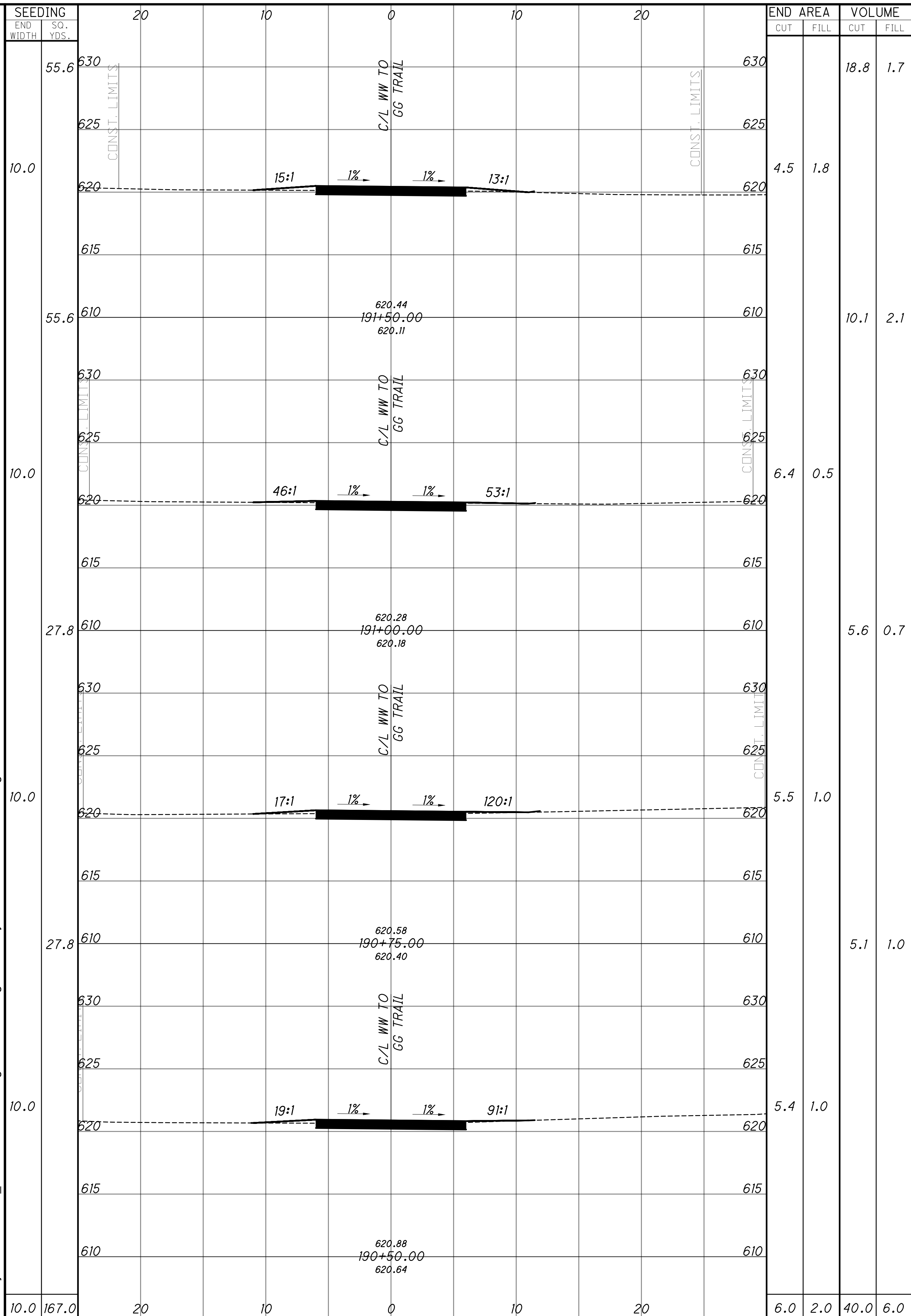
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PROJECT ID  
117016

SHEET TOTAL  
P.132 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 190+50.00 TO STA. 193+25.00

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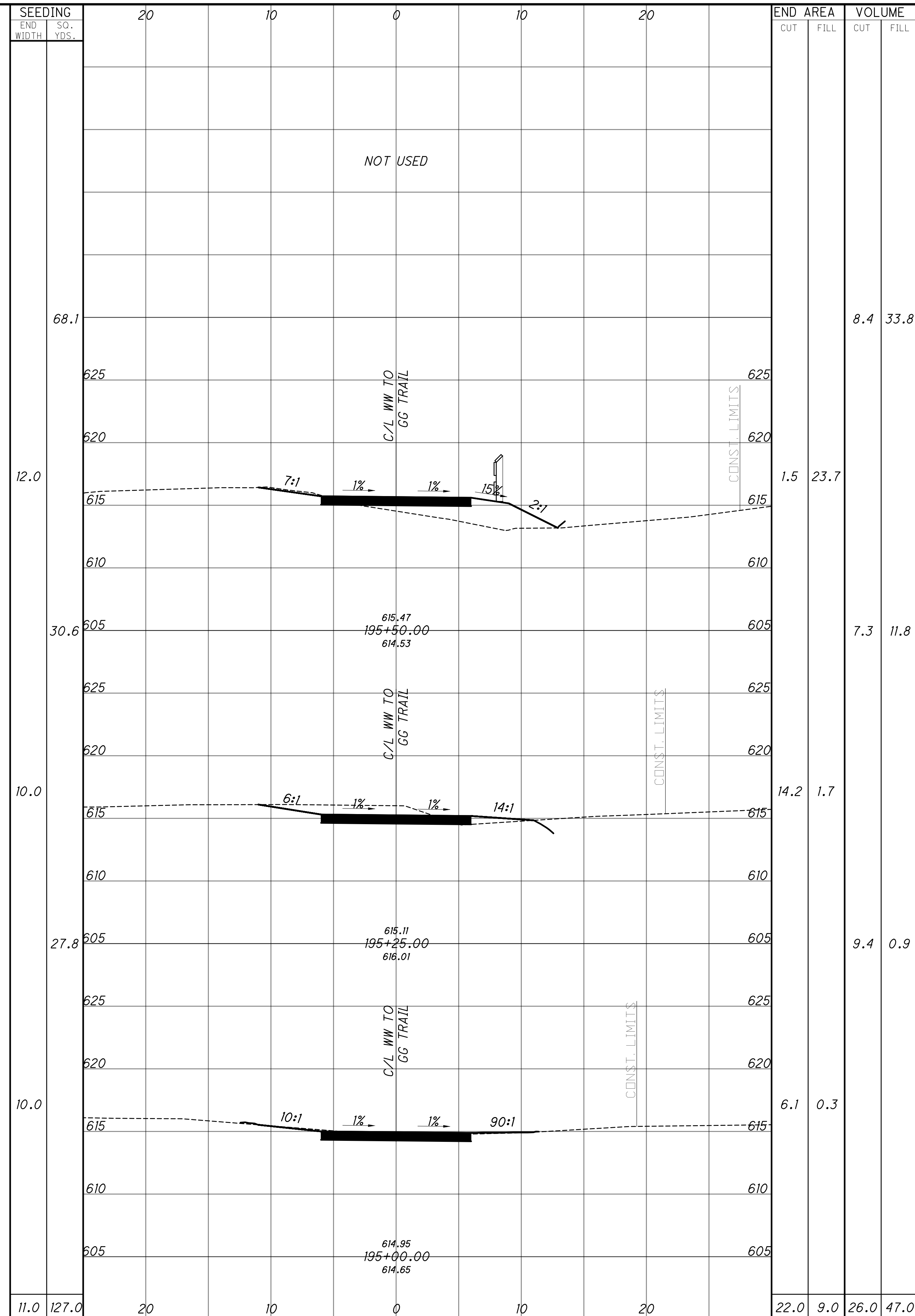
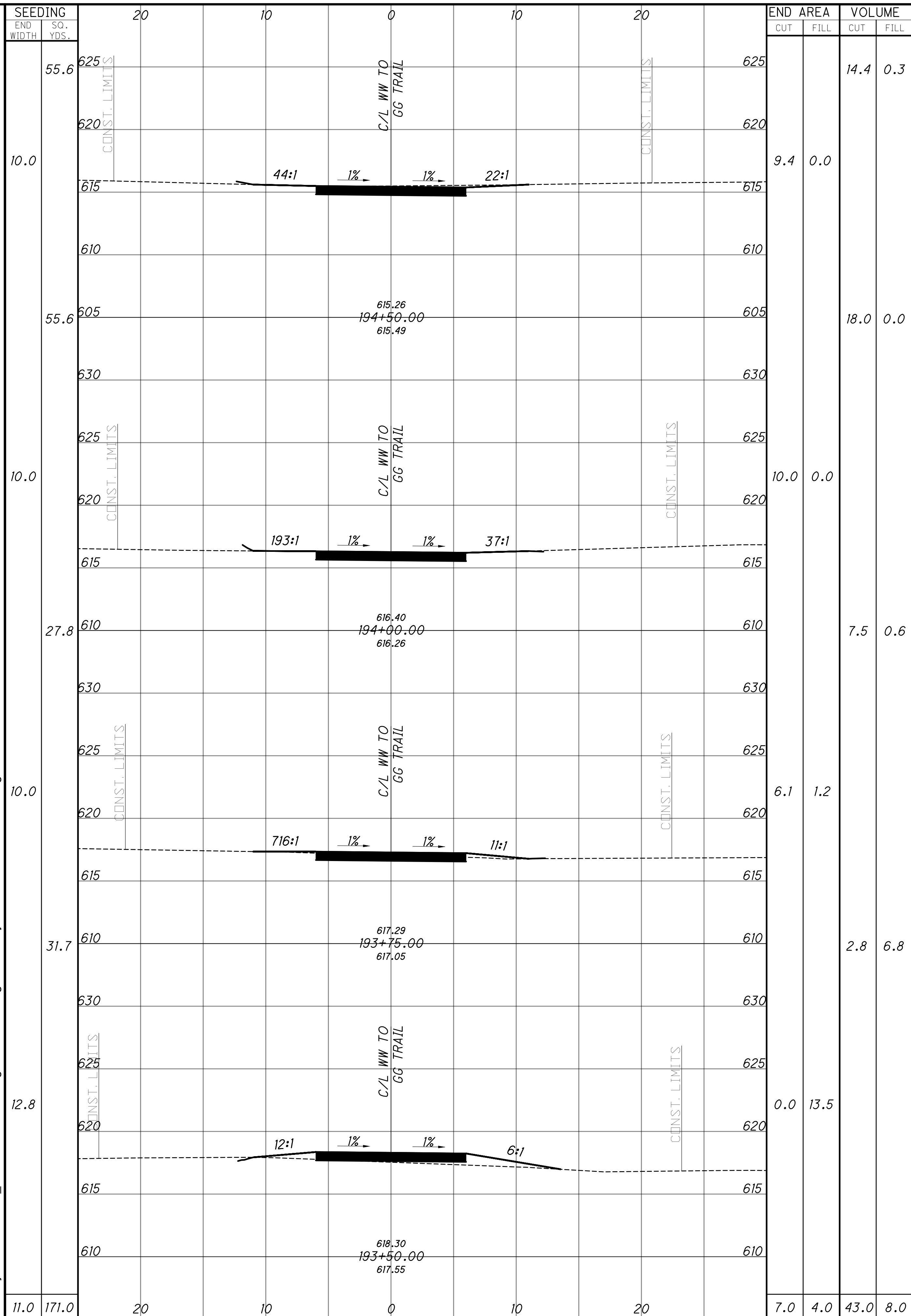
PROJECT ID  
**117016**

SHEET TOTAL  
**P.133 210**



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 193+50.00 TO STA. 195+50.00

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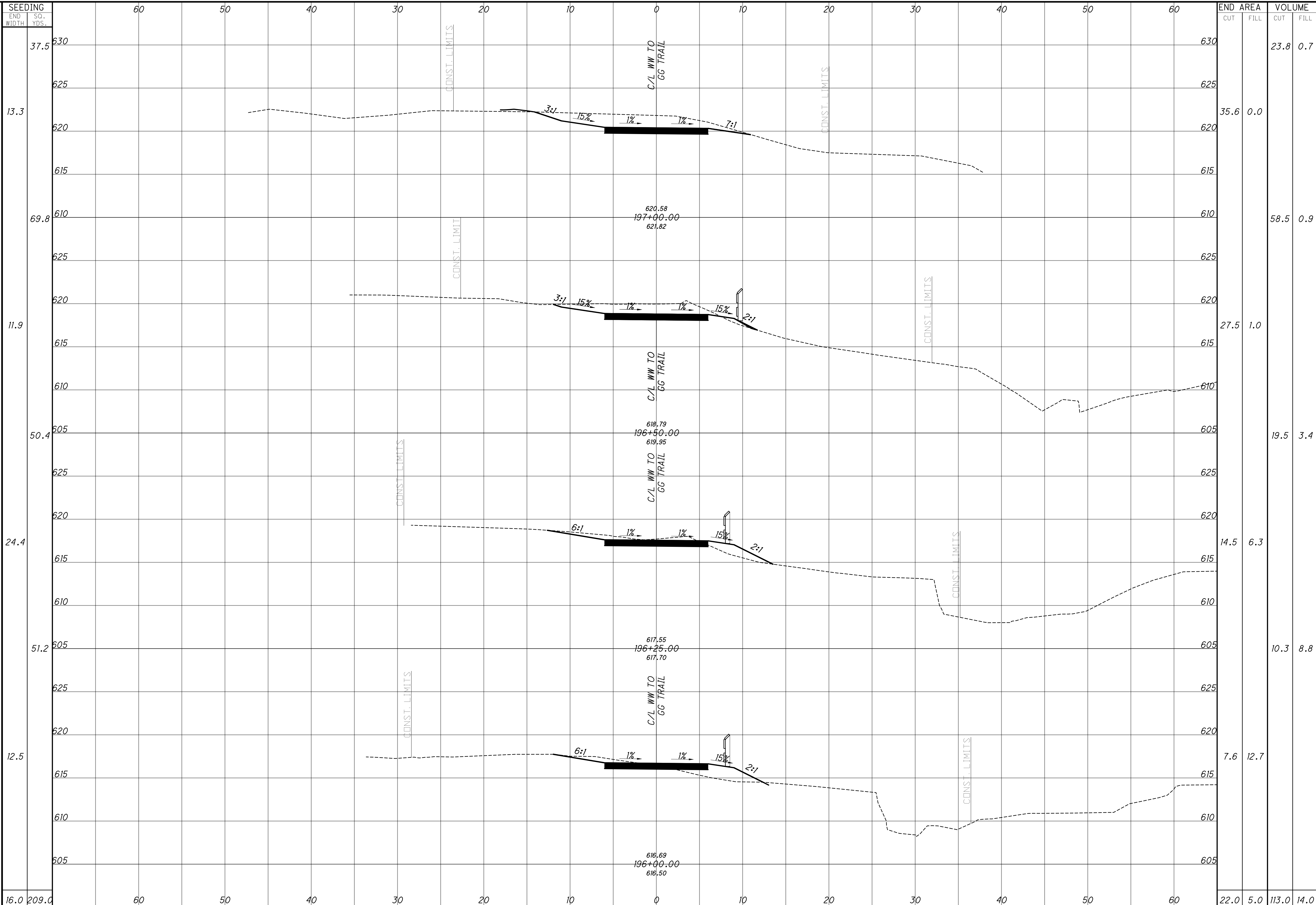
REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

SHEET TOTAL  
P.135 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
37.5	630			23.8	0.7
13.3	625			35.6	0.0
	620				
69.8	610			58.5	0.9
	625				
11.9	620			27.5	1.0
	615				
	610				
50.4	605			19.5	3.4
	625				
24.4	620			14.5	6.3
	615				
	610				
51.2	605			10.3	8.8
	625				
	620				
12.5	615			7.6	12.7
	610				
	605				
16.0	209.0	22.0	5.0	113.0	14.0

CROSS SECTIONS - WW TO GG  
STA. 196+00.00 TO STA. 197+00.00

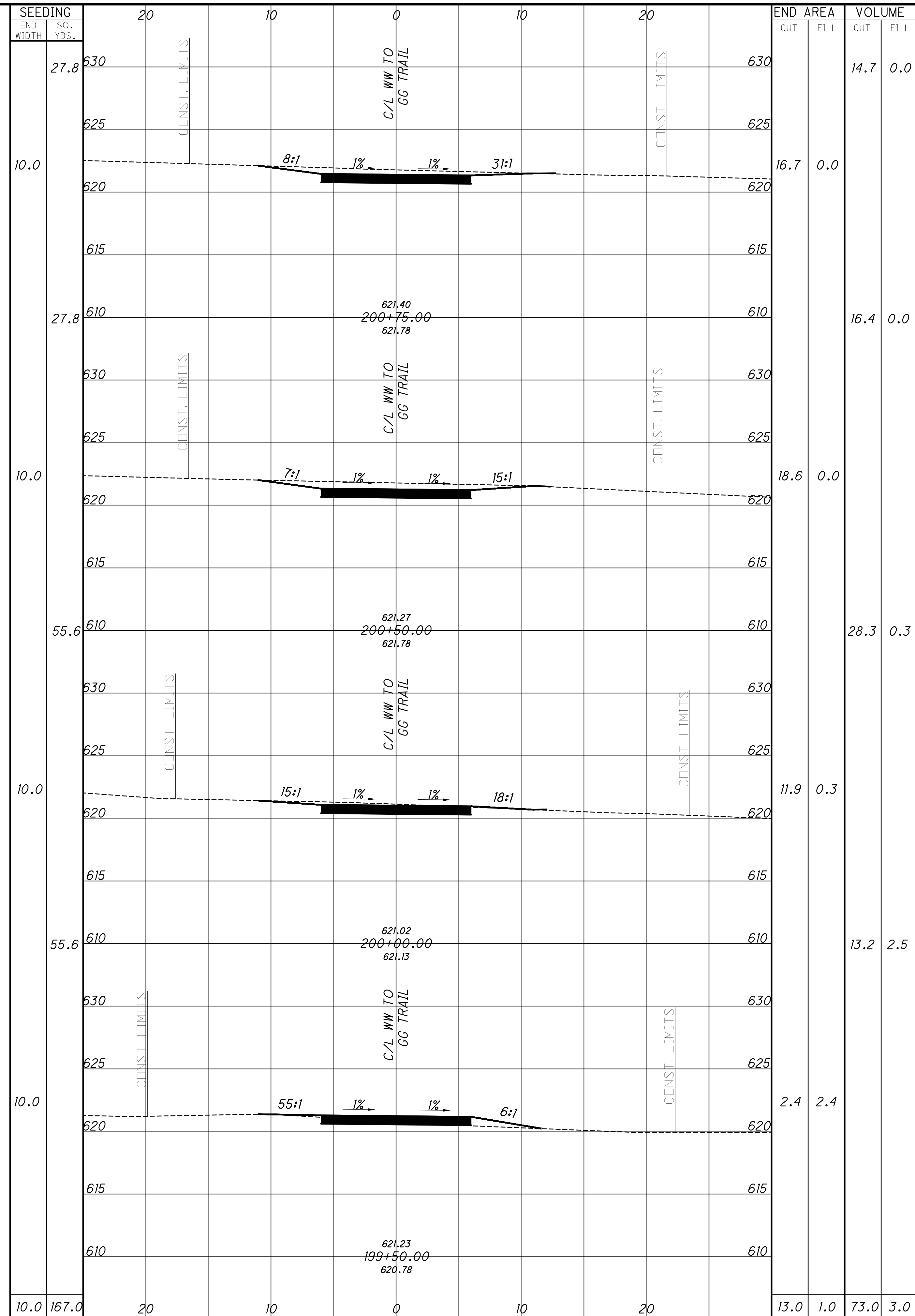
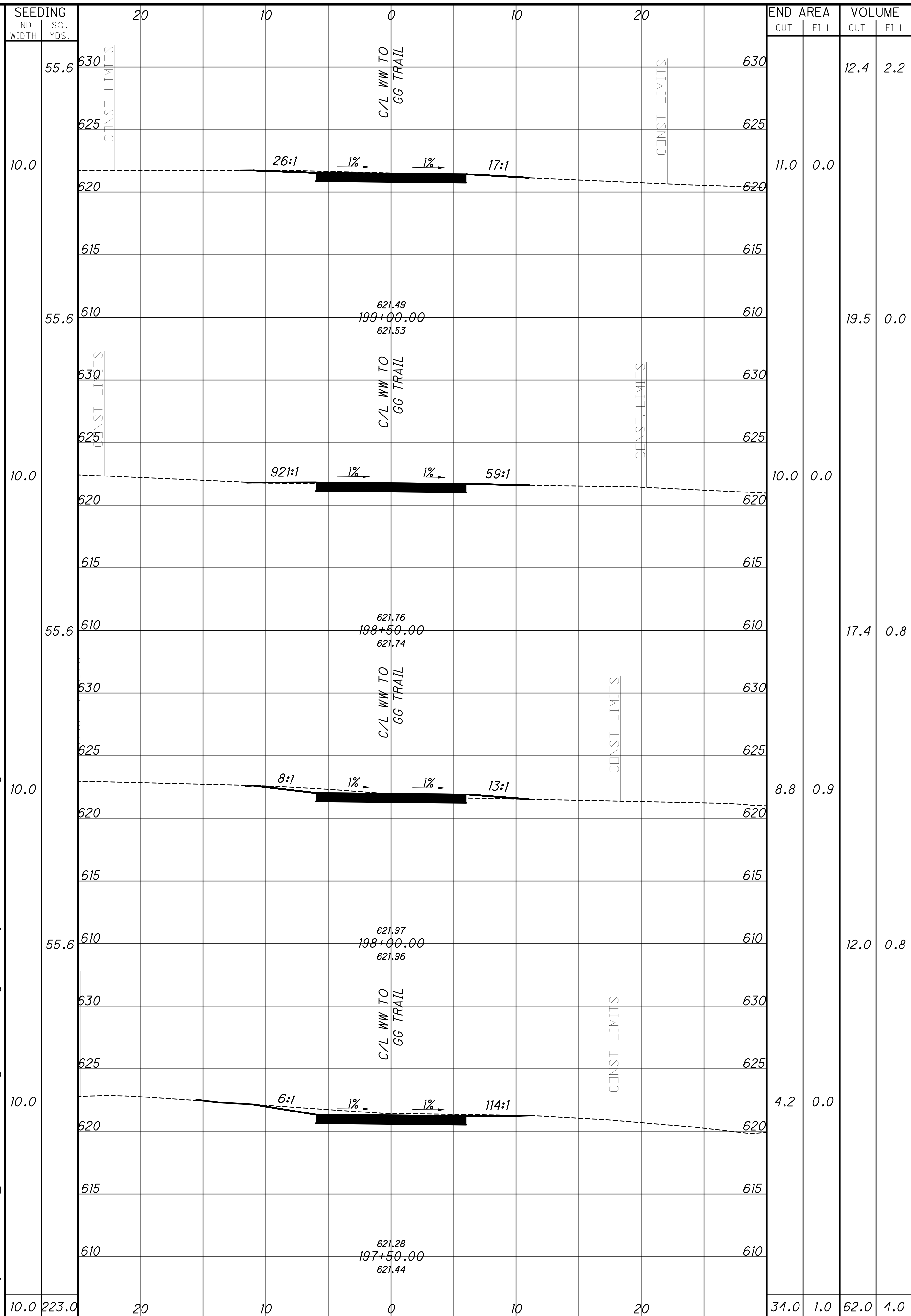
DESIGN AGENCY	<b>KZFJ-SIG</b> Designing Better Futures
DESIGNER	SCR
REVIEWER	SCR 4/1/2024
PROJECT ID	117016
SHEET	TOTAL
P.136	210





HAM-WINTON WOODS TO GLENWOOD GARDENS

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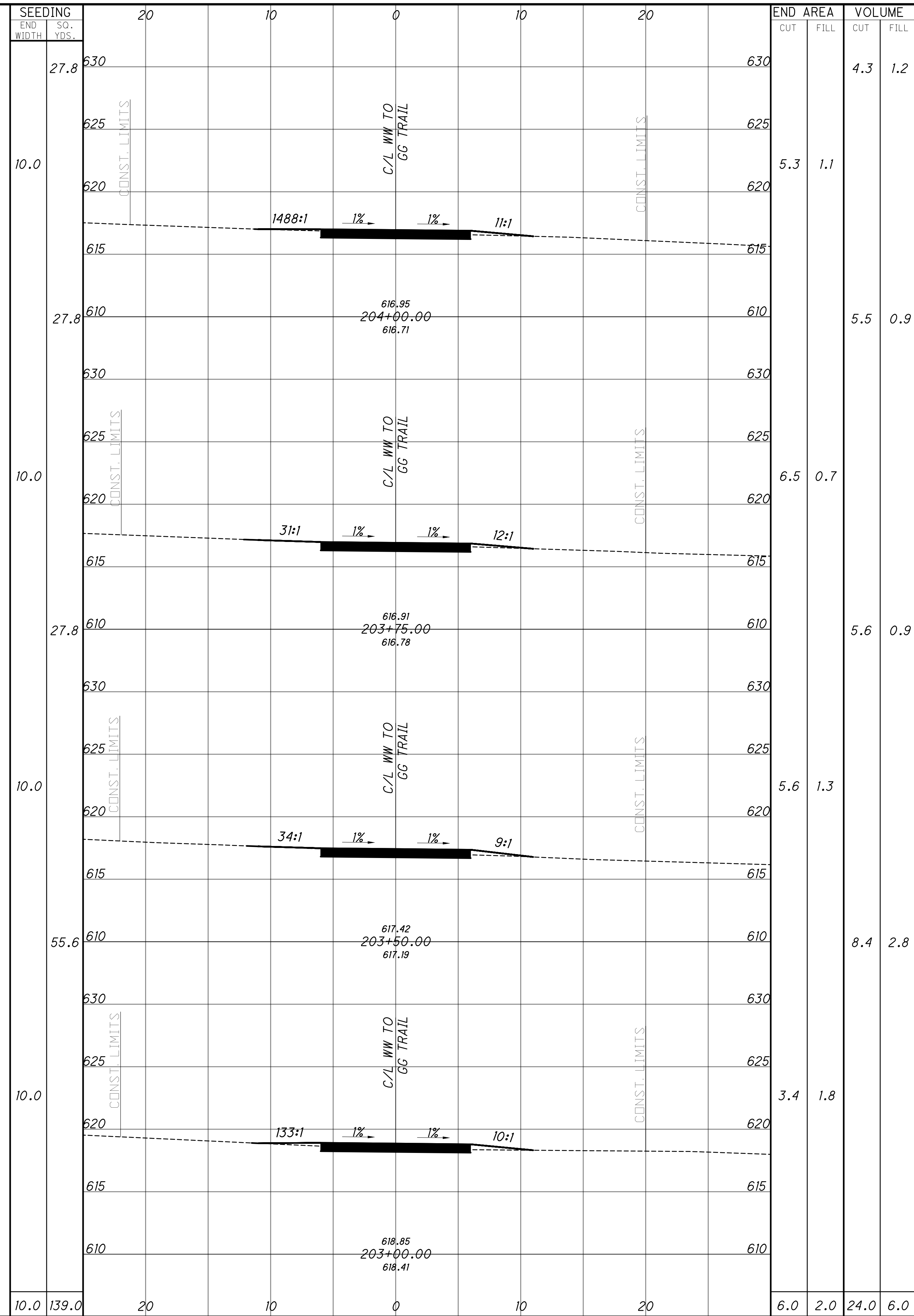
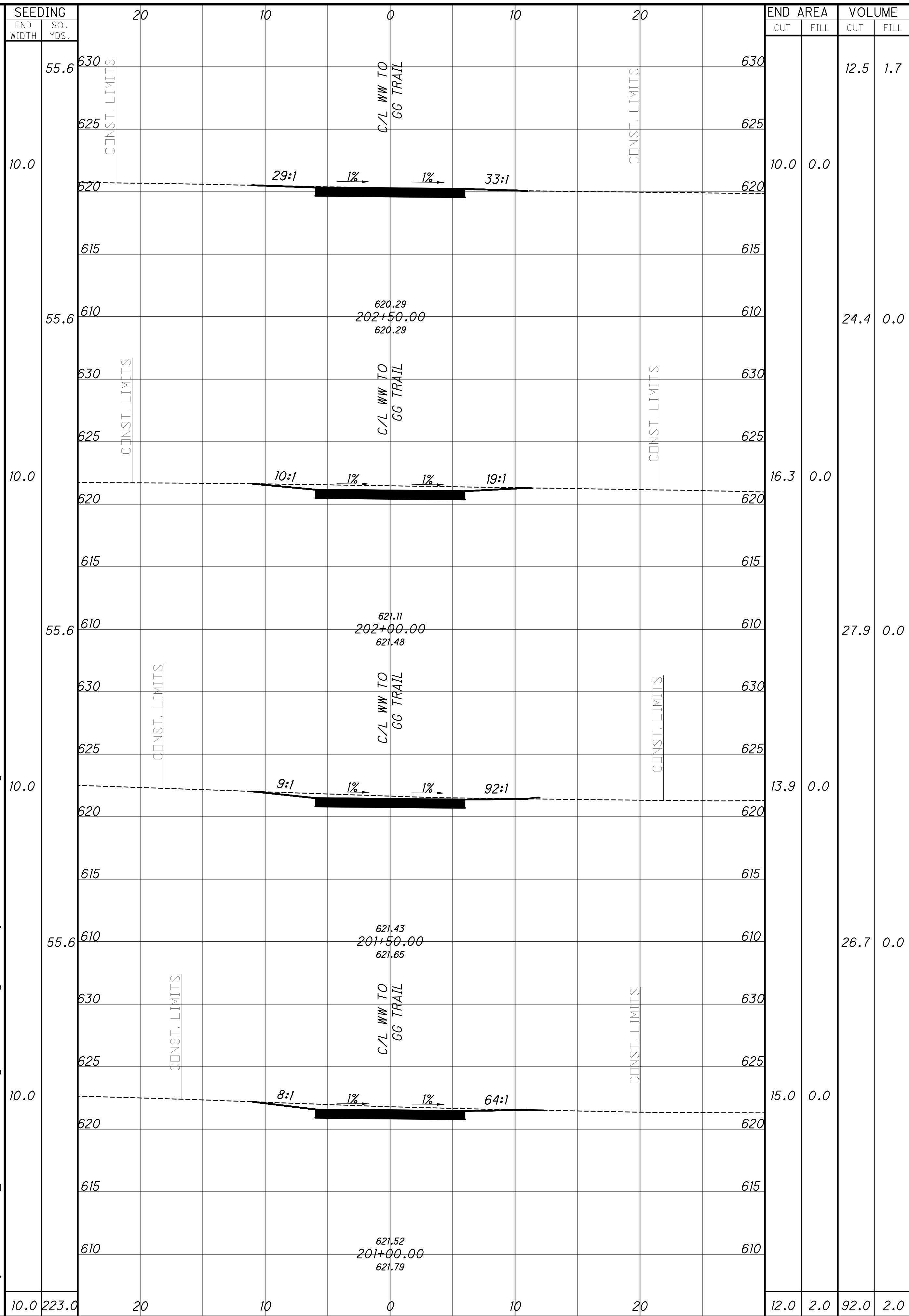


CROSS SECTIONS - WW TO GG  
STA. 197+50.00 TO STA. 200+75.00

DESIGN AGENCY	<b>KZFJ-SIG</b> Designing Better Futures
DESIGNER	SCR
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PROJECT ID	117016
SHEET TOTAL	P.138 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 201+00.00 TO STA. 204+00.00

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DESIGNER  
SCR

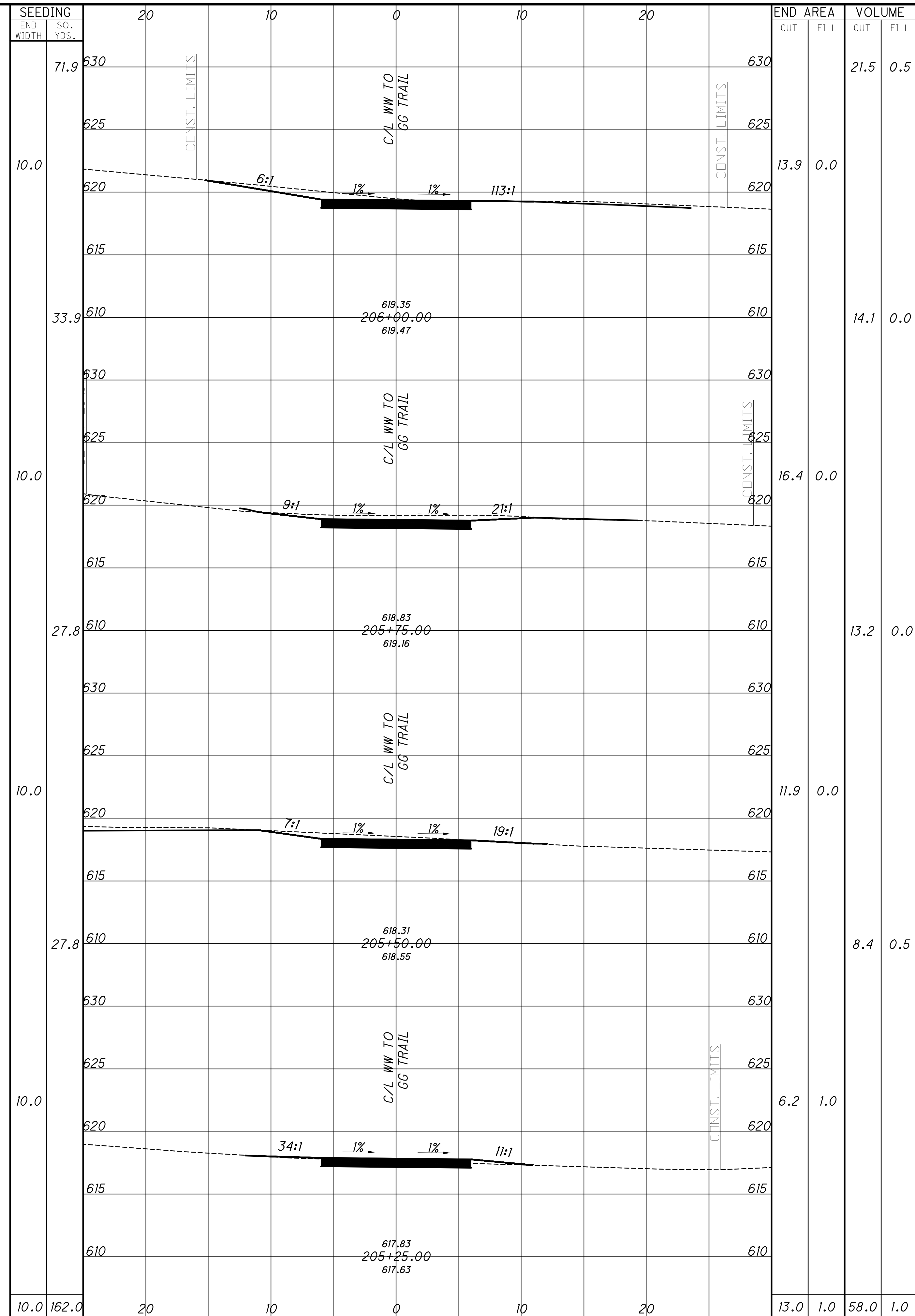
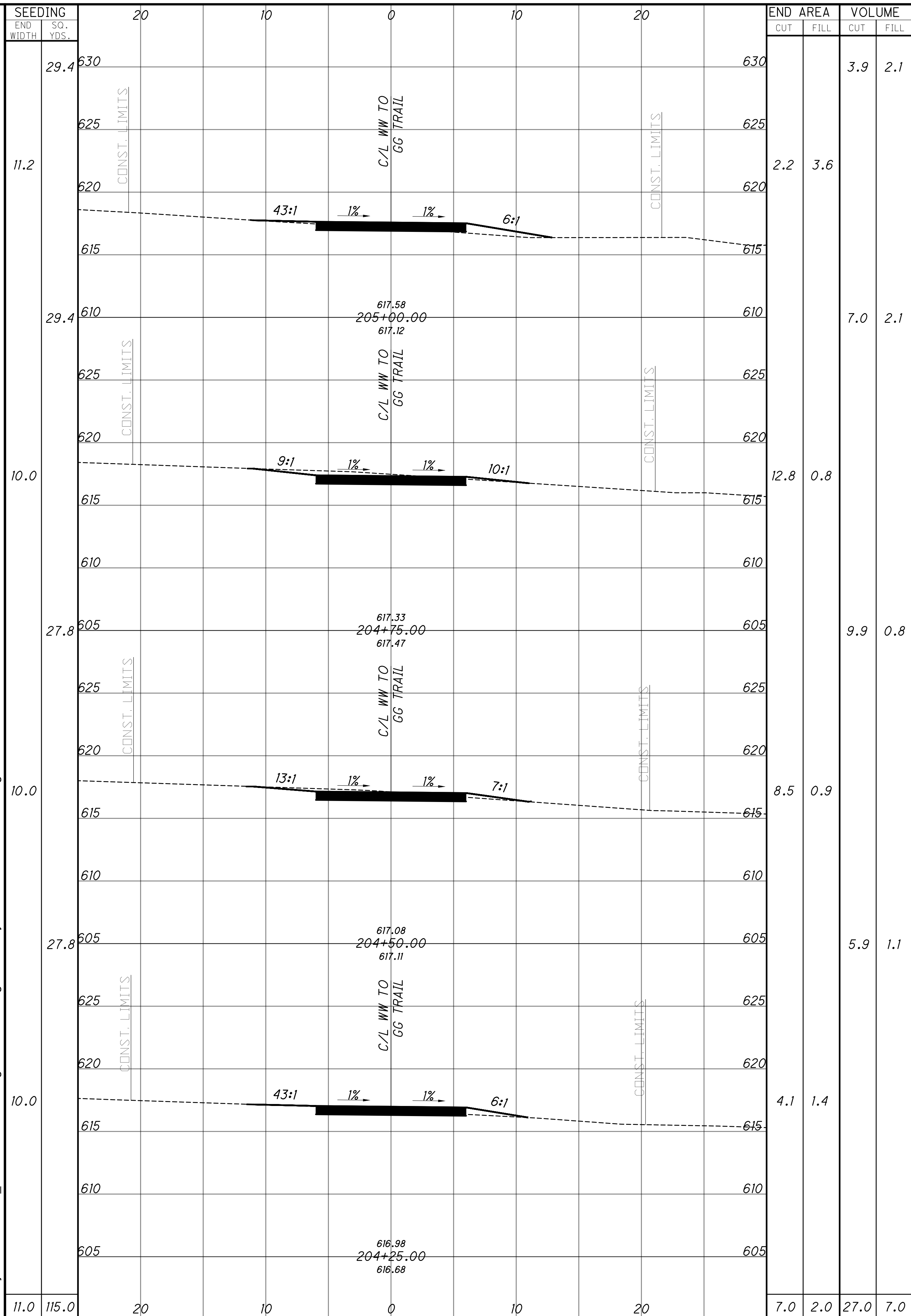
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PROJECT ID  
117016

SHEET TOTAL  
P.139 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 204+25.00 TO STA. 206+00.00

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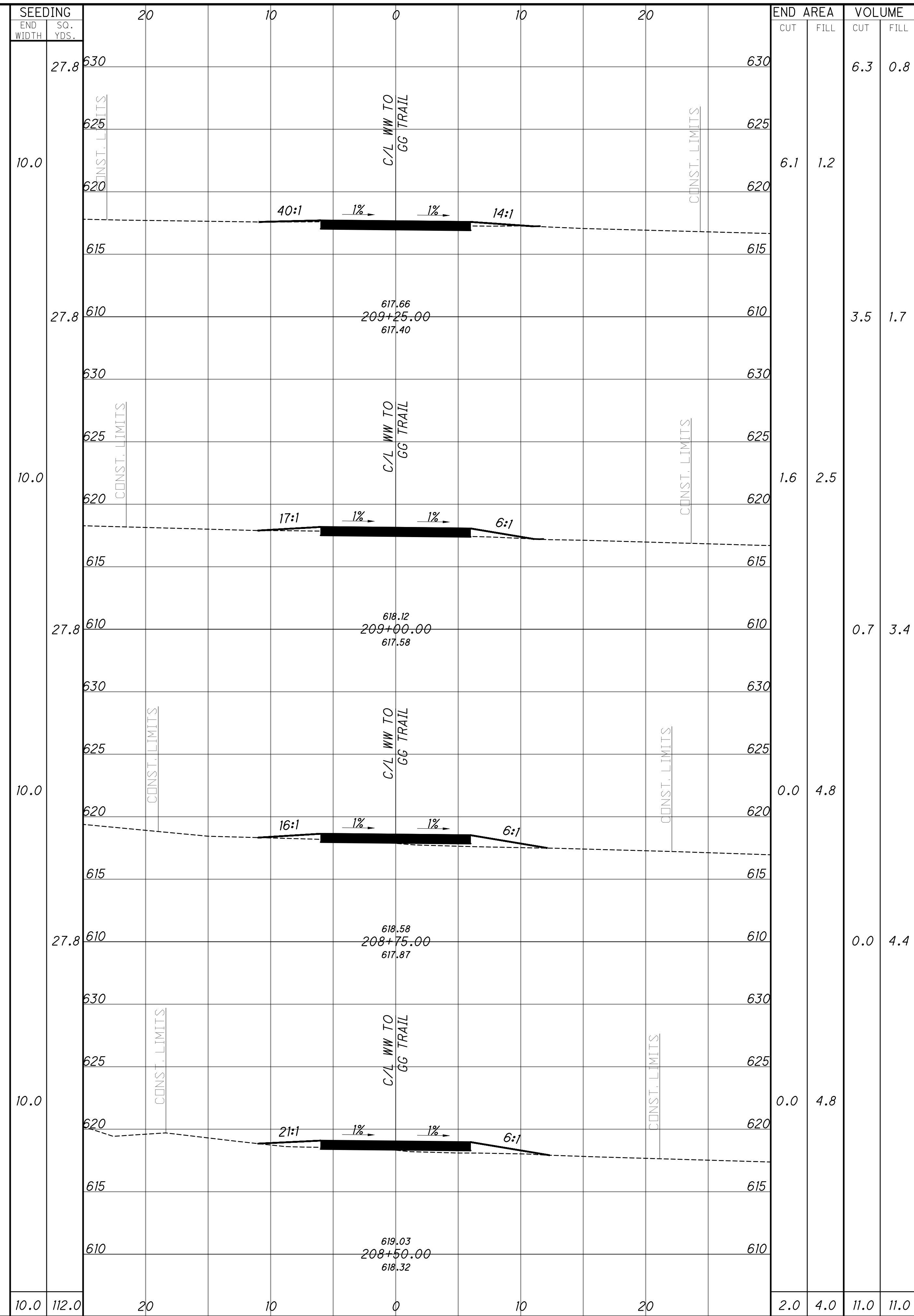
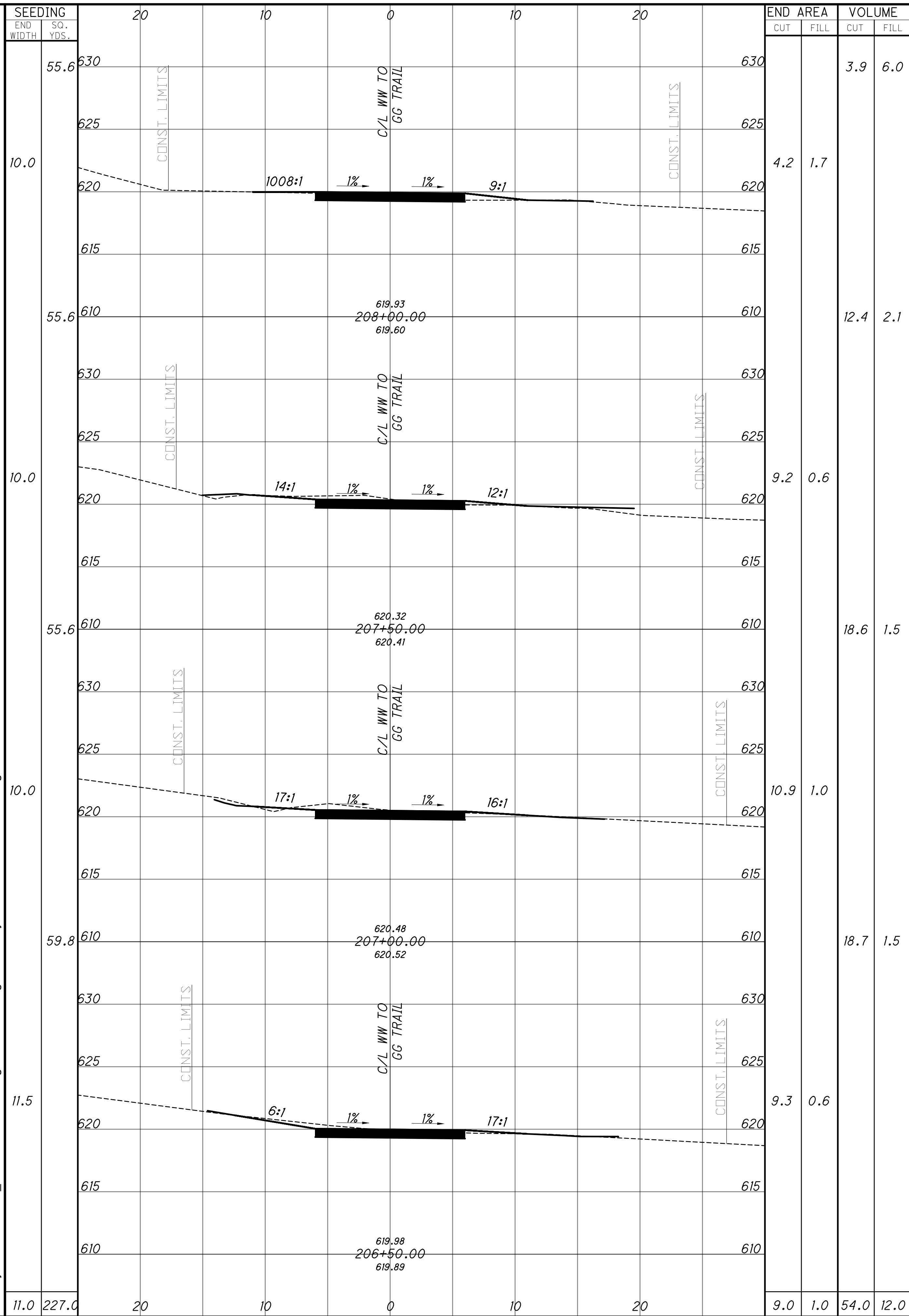
PROJECT ID  
 117016

SHEET TOTAL  
 P.140 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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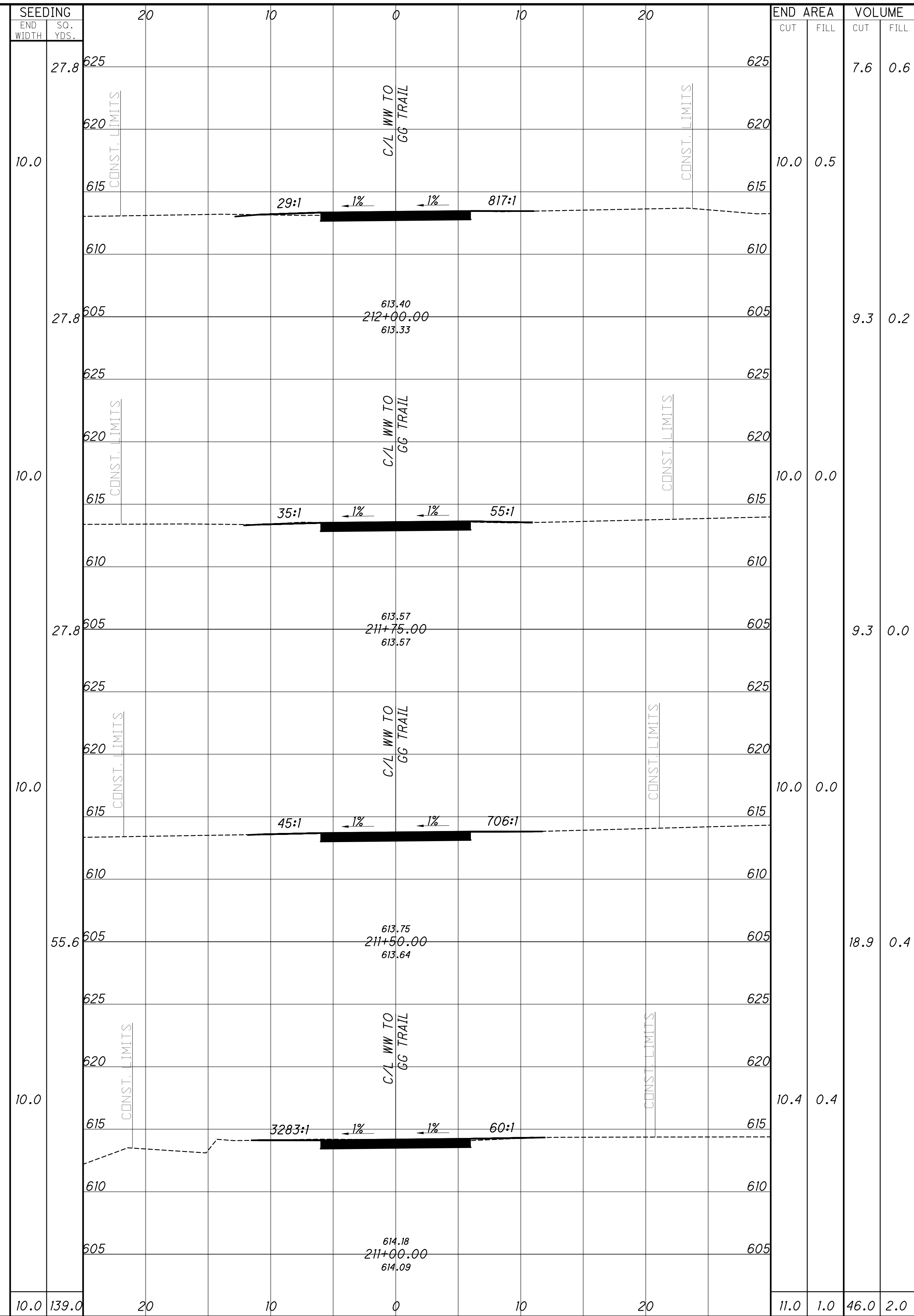
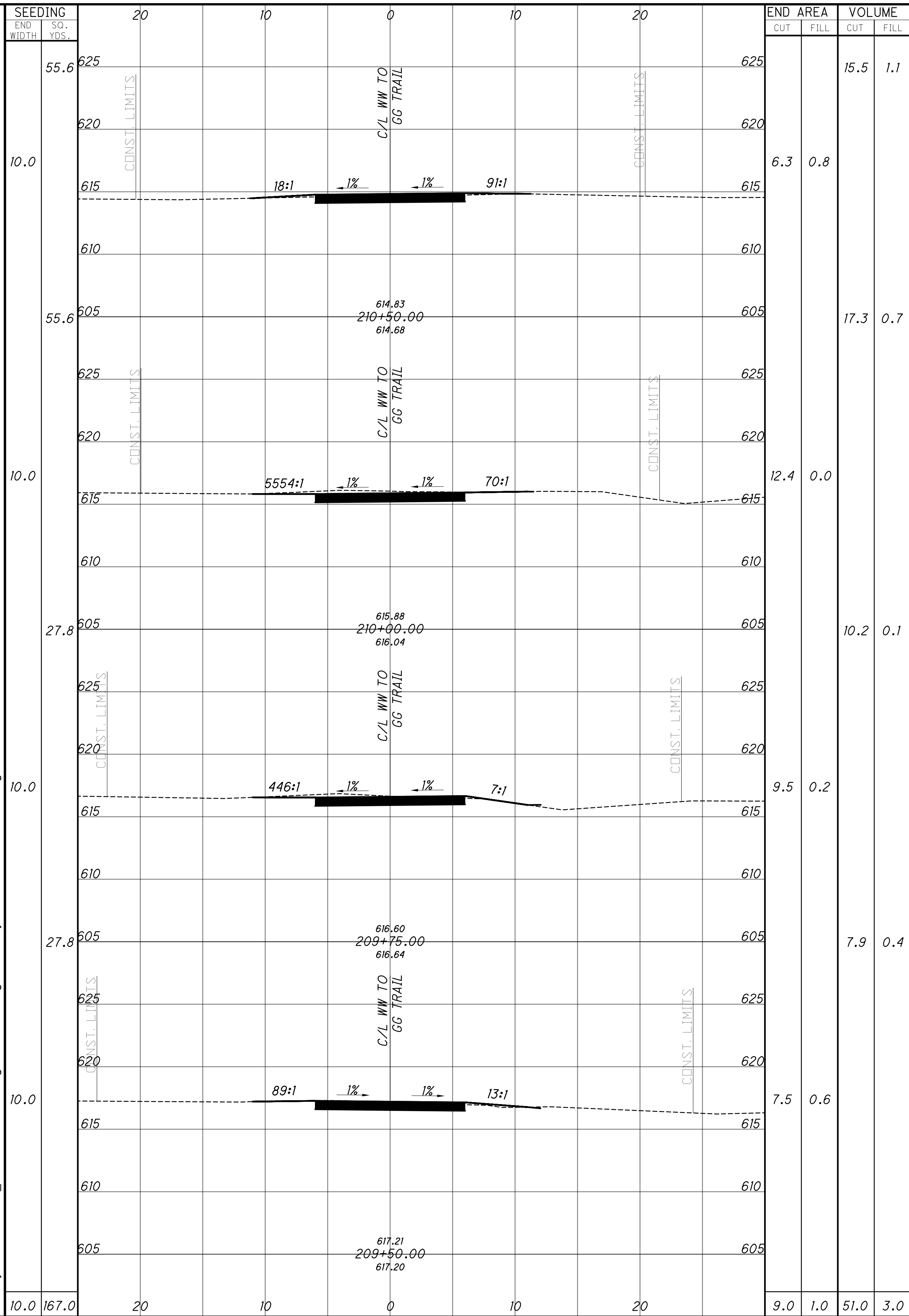


CROSS SECTIONS - WW TO GG  
STA. 206+50.00 TO STA. 209+25.00

DESIGN AGENCY	<b>KZFJ-SIG</b> Designing Better Futures
DESIGNER	SCR
REVIEWER	SCR 4/1/2024
PROJECT ID	117016
SHEET TOTAL	P.141 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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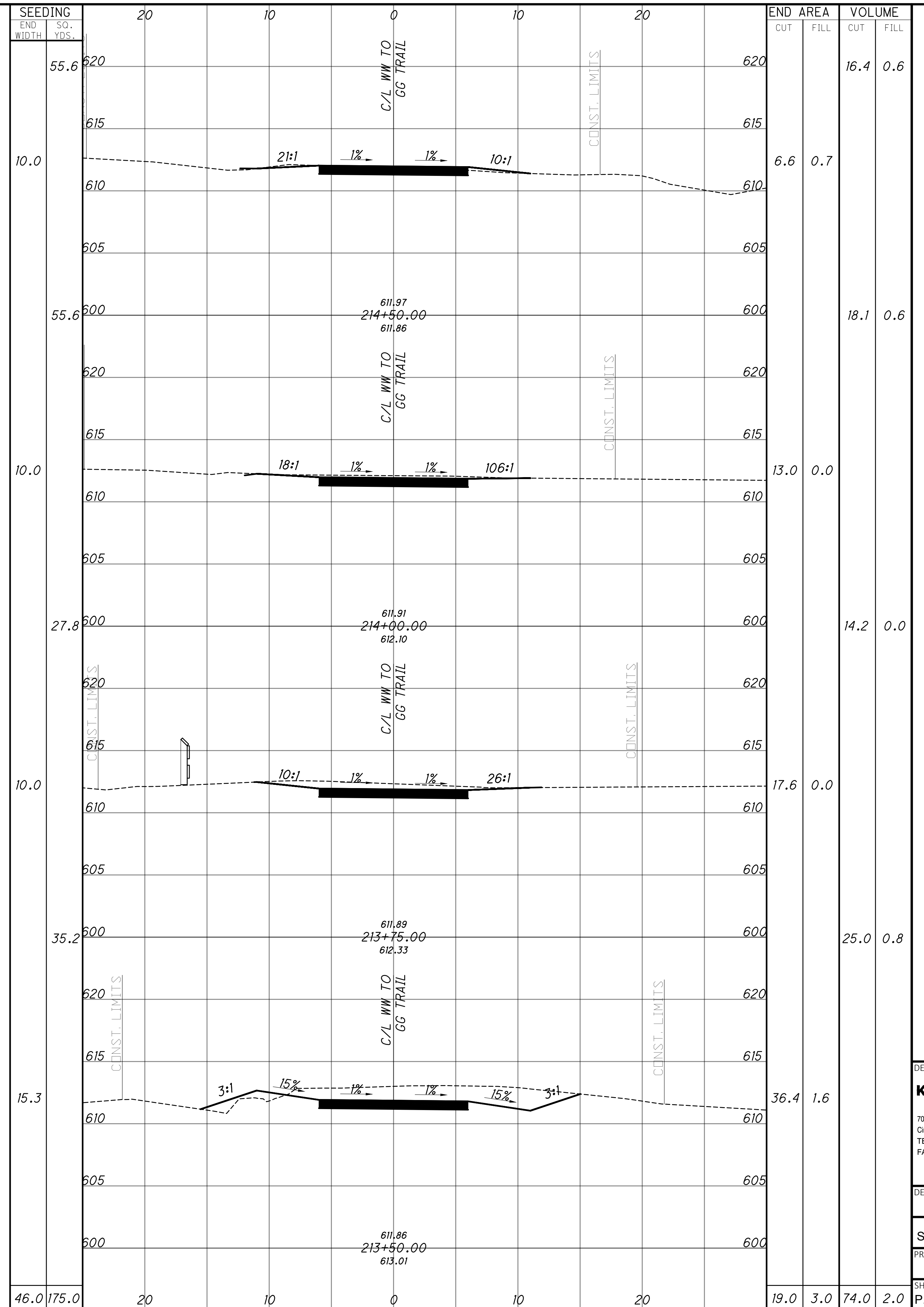
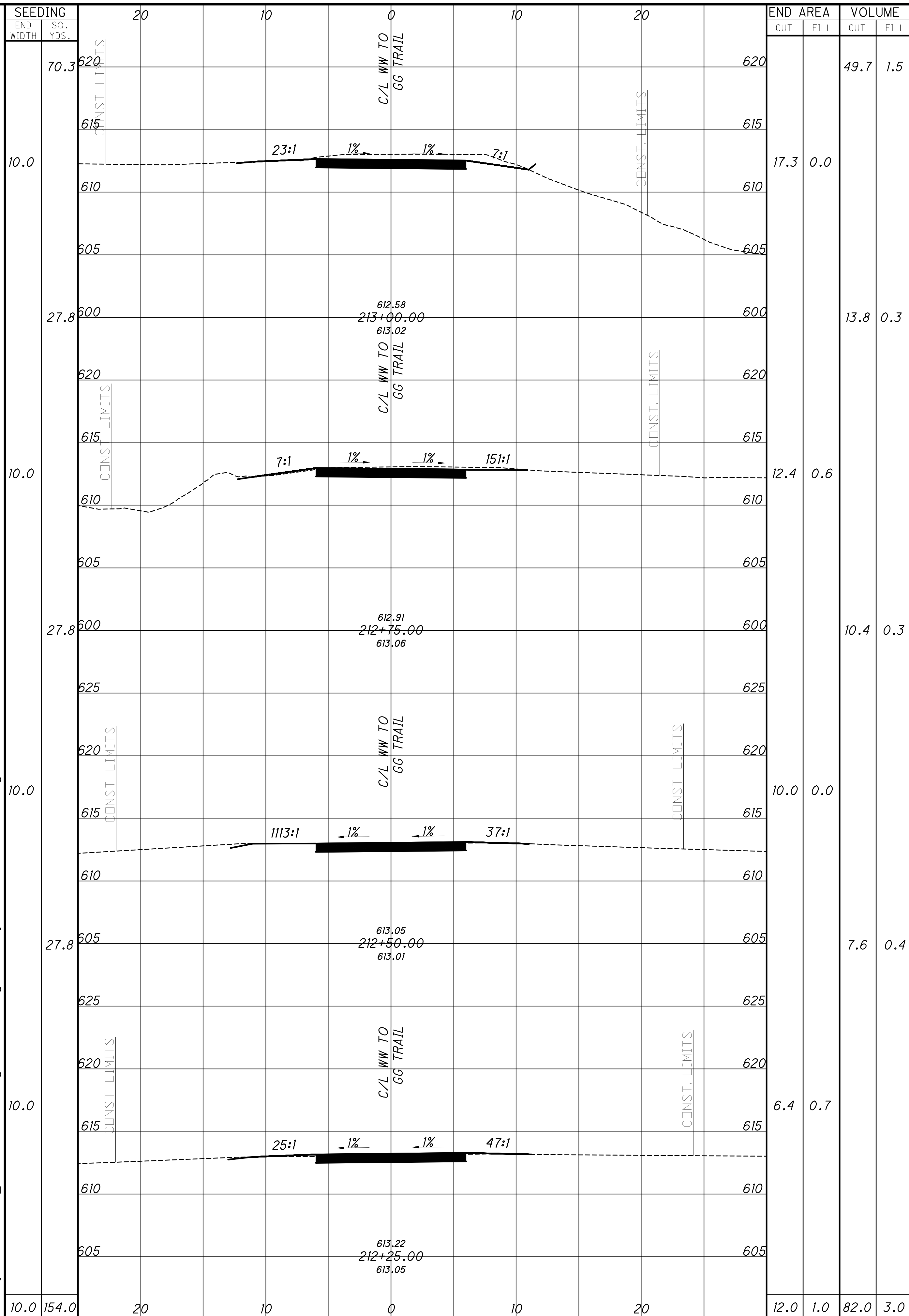


CROSS SECTIONS - WW TO GG  
STA. 209+50.00 TO STA. 212+00.00

DESIGN AGENCY	<b>KZFJ-SIG</b> Designing Better Futures
DESIGNER	SCR
REVIEWER	SCR 4/1/2024
PROJECT ID	117016
SHEET	TOTAL
P.142	210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 212+25.00 TO STA. 214+50.00

DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

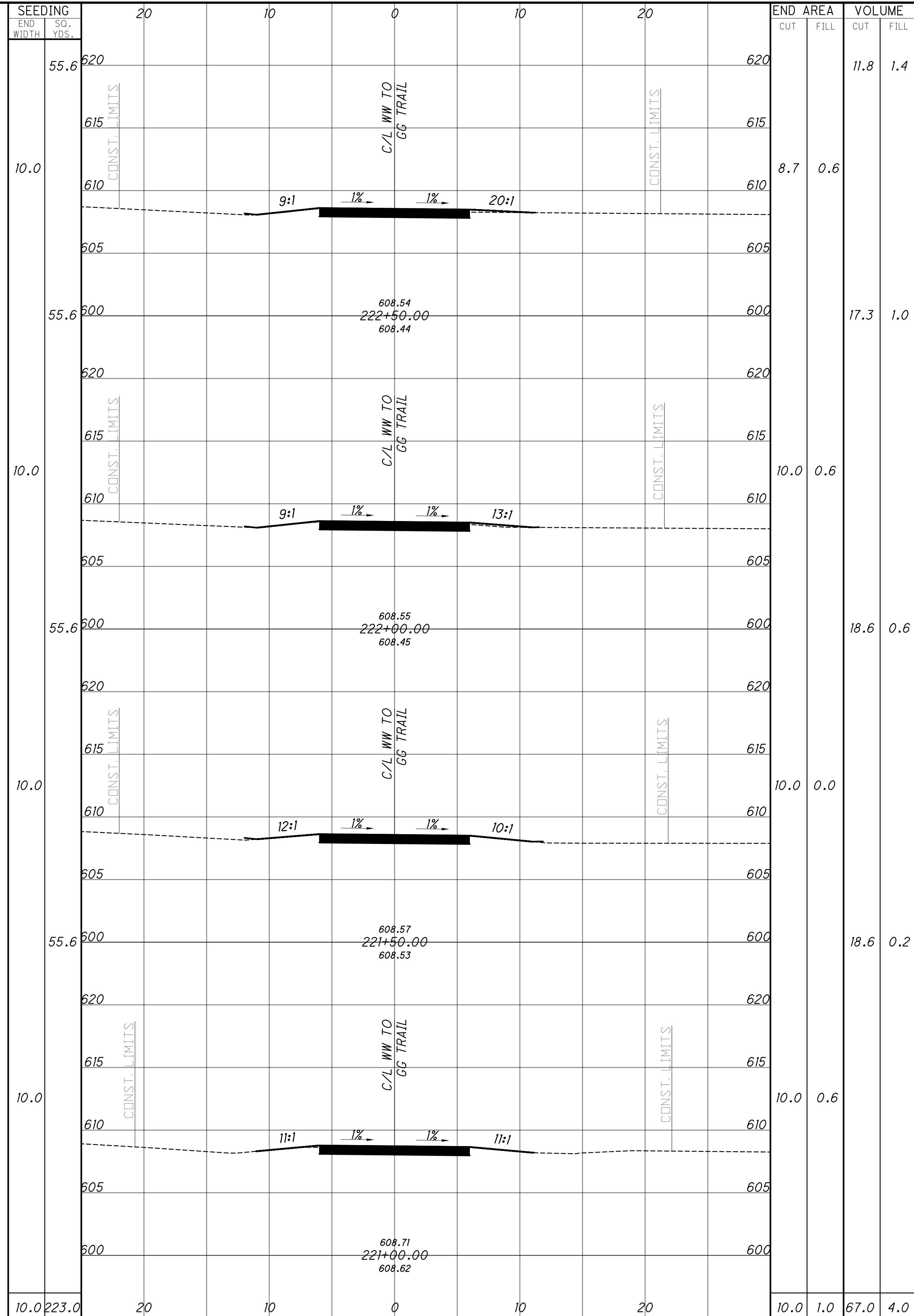
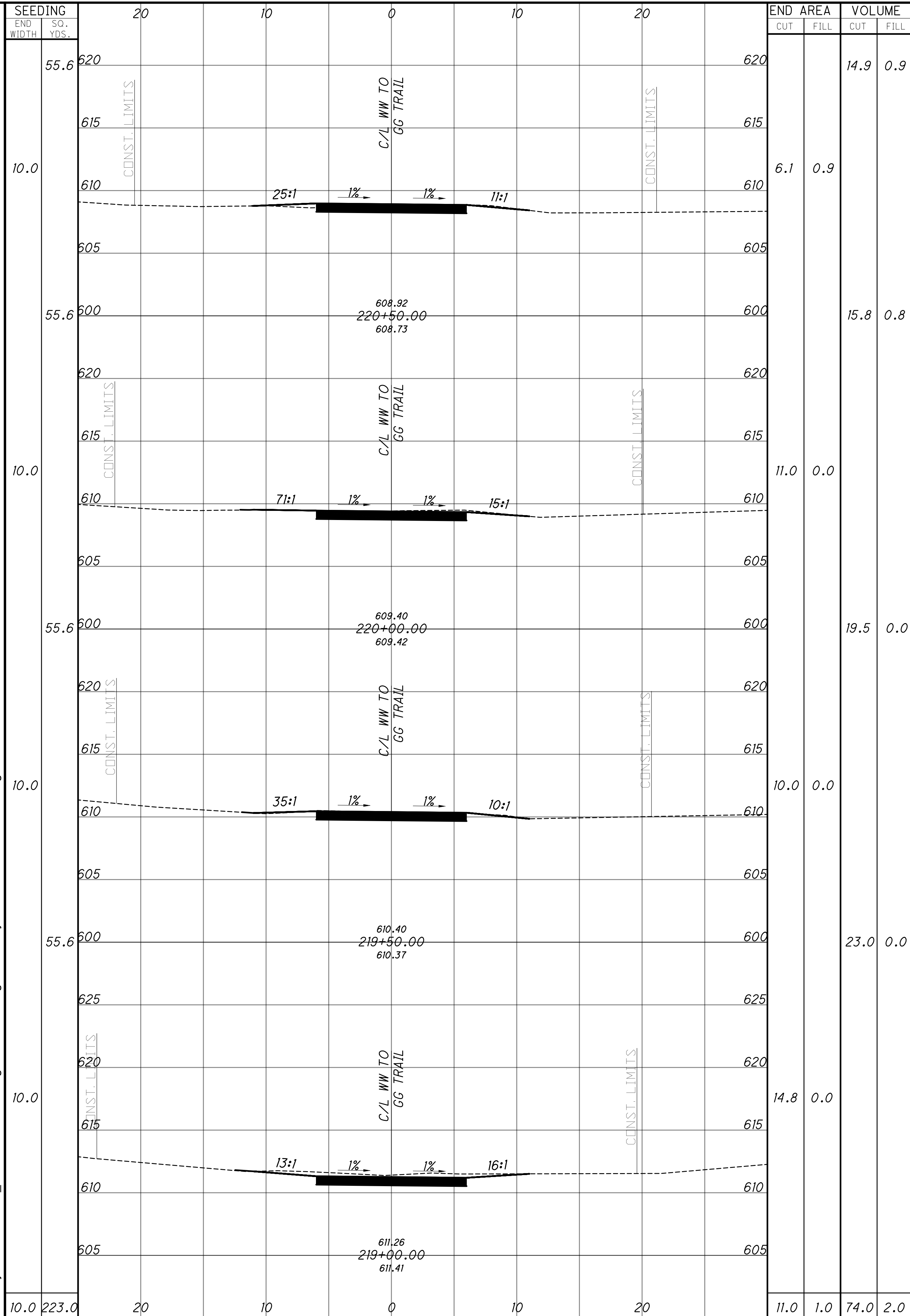
SHEET	TOTAL
P.143	210





HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 219+00.00 TO STA. 222+50.00

DESIGN AGENCY  
**KZFJ-SIG**  
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700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
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DESIGNER  
SCR

REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

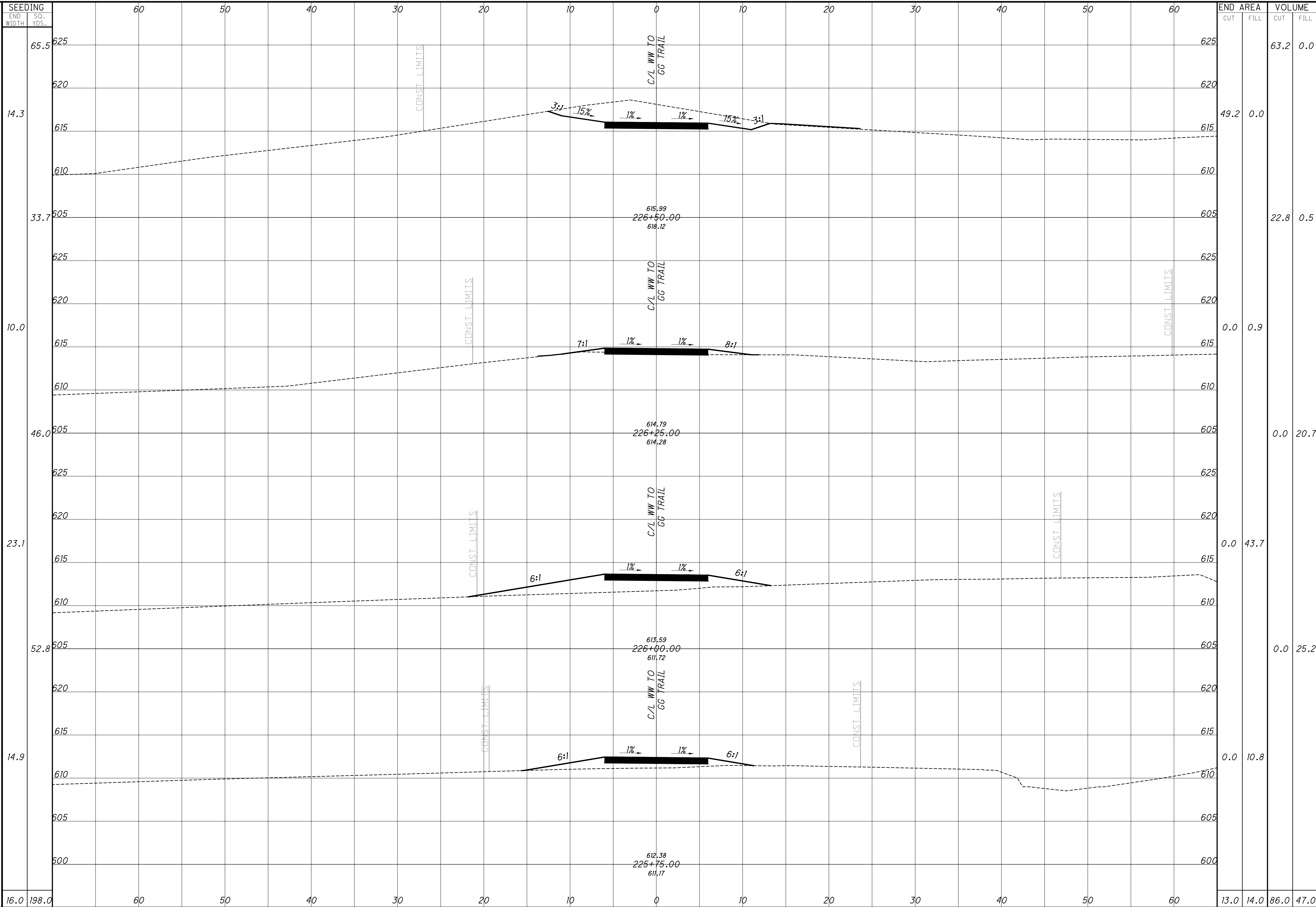
SHEET TOTAL  
P.145 210





HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
65.5	625	625	63.2	0.0
14.3	615	615	49.2	0.0
33.7	605	605	22.8	0.5
10.0	615	615	0.0	0.9
46.0	605	605	0.0	20.7
23.1	615	615	0.0	43.7
52.8	605	605	0.0	25.2
14.9	610	610	0.0	10.8
16.0	600	600	13.0	14.0

CROSS SECTIONS - WW TO GG  
STA. 225+75.00 TO STA. 226+50.00

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**KZFJ-SIG**  
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 700 Broadway Street  
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 FAX 513 621 6530

DESIGNER  
 SCR

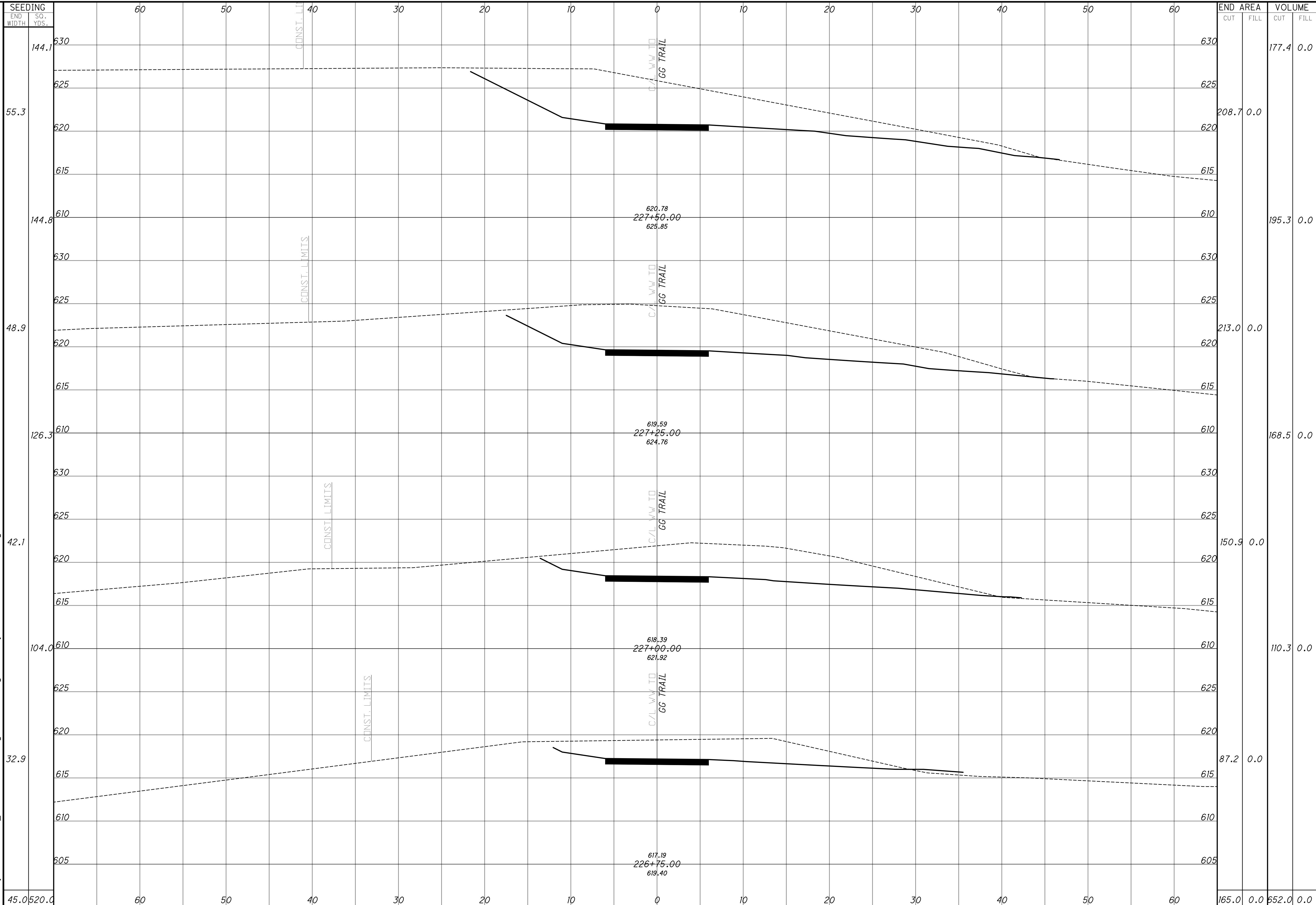
REVIEWER  
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PROJECT ID  
 117016

SHEET TOTAL  
 P.147 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

F:\Projects\686100\05\_Deliverables\Drawings\117016\Design\Roadway\Sheets\117016XS039.dwg



CROSS SECTIONS - WW TO GG  
STA. 226+75.00 TO STA. 227+50.00

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DESIGNER  
 SCR

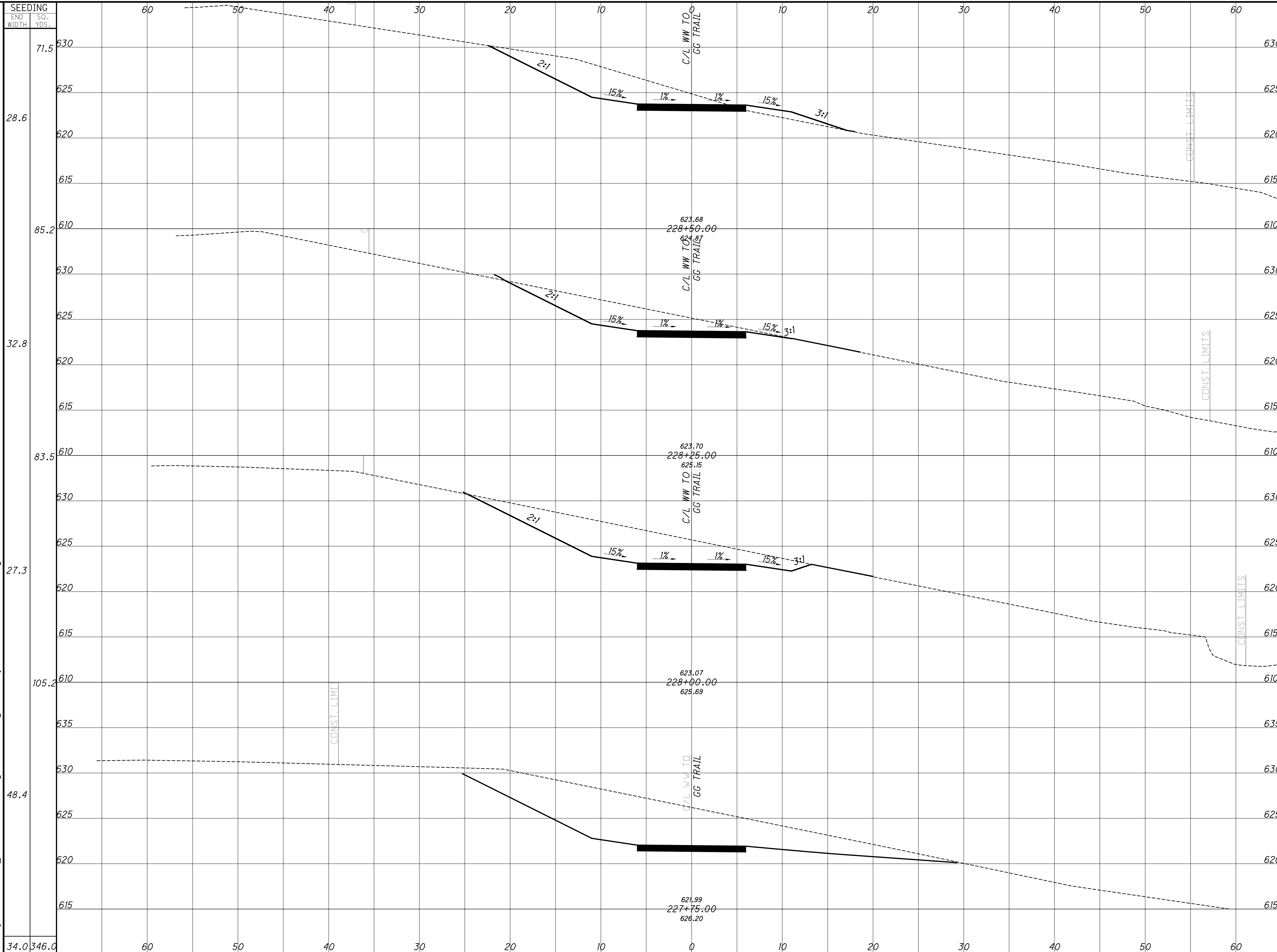
REVIEWER  
 SCR 4/1/2024

PROJECT ID  
 117016

SHEET TOTAL  
 P.148 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
71.5	630	34.1	11.8		
28.6	625	63.2	6.7		
85.2	610	55.0	3.1		
32.8	625	55.5	0.0		
83.5	610	65.9	0.0		
27.3	620	86.8	0.0		
105.2	610	121.0	0.0		
48.4	625	174.4	0.0		
34.0	615	95.0	2.0	276.0	15.0

CROSS SECTIONS - WW TO GG  
STA. 227+75.00 TO STA. 228+50.00

DESIGN AGENCY



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REVIEWER  
SCR 4/1/2024

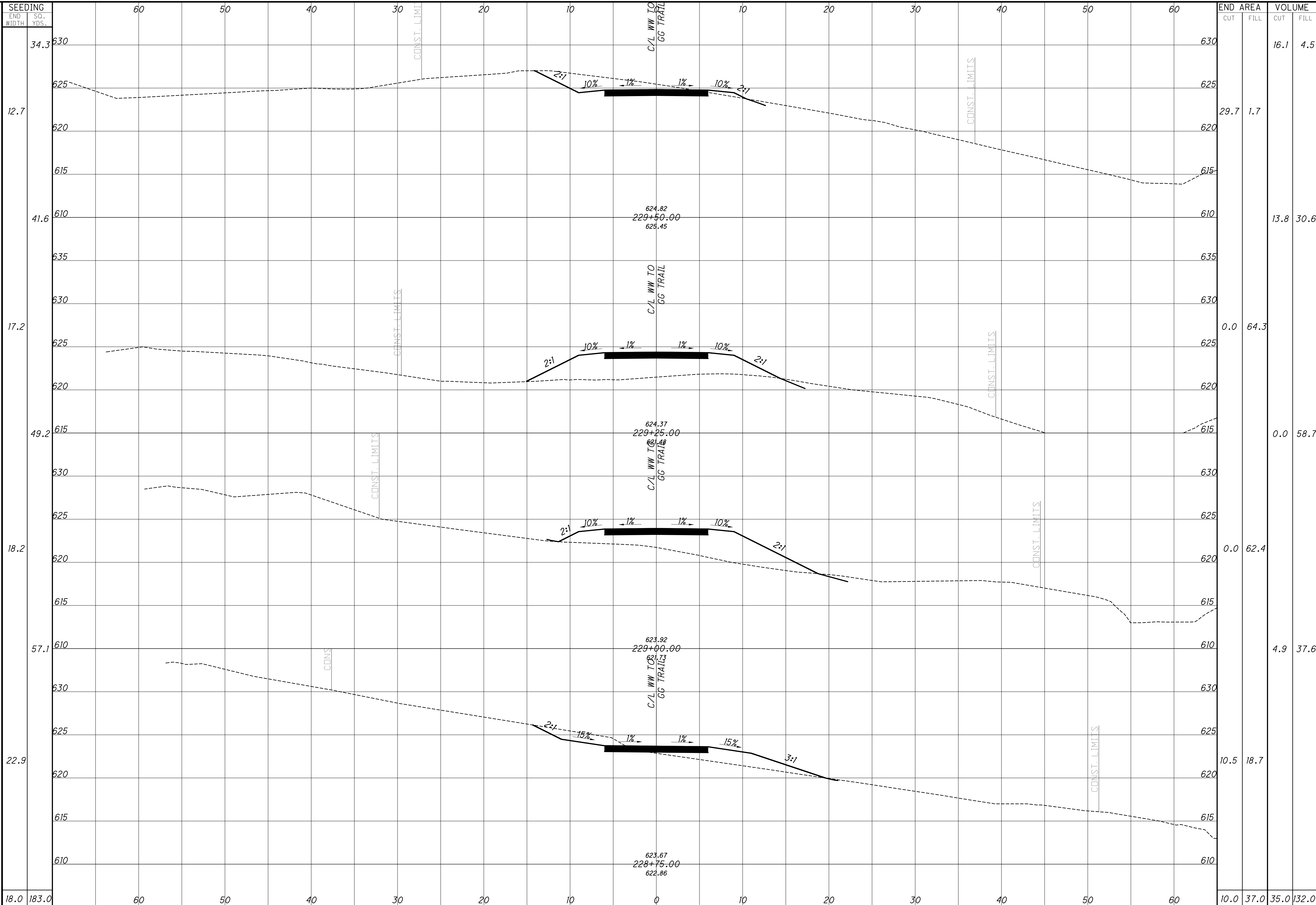
PROJECT ID  
117016

SHEET TOTAL  
P.149 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
34.3	10.0	37.0	35.0	132.0
12.7	29.7	1.7	13.8	30.6
17.2	0.0	64.3	0.0	58.7
49.2	0.0	62.4	4.9	37.6
18.2	0.0	62.4	0.0	62.4
57.1	10.5	18.7	10.0	37.0
22.9	10.0	37.0	35.0	132.0

CROSS SECTIONS - WW TO GG  
STA. 228+75.00 TO STA. 229+50.00

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DESIGNER  
 SCR

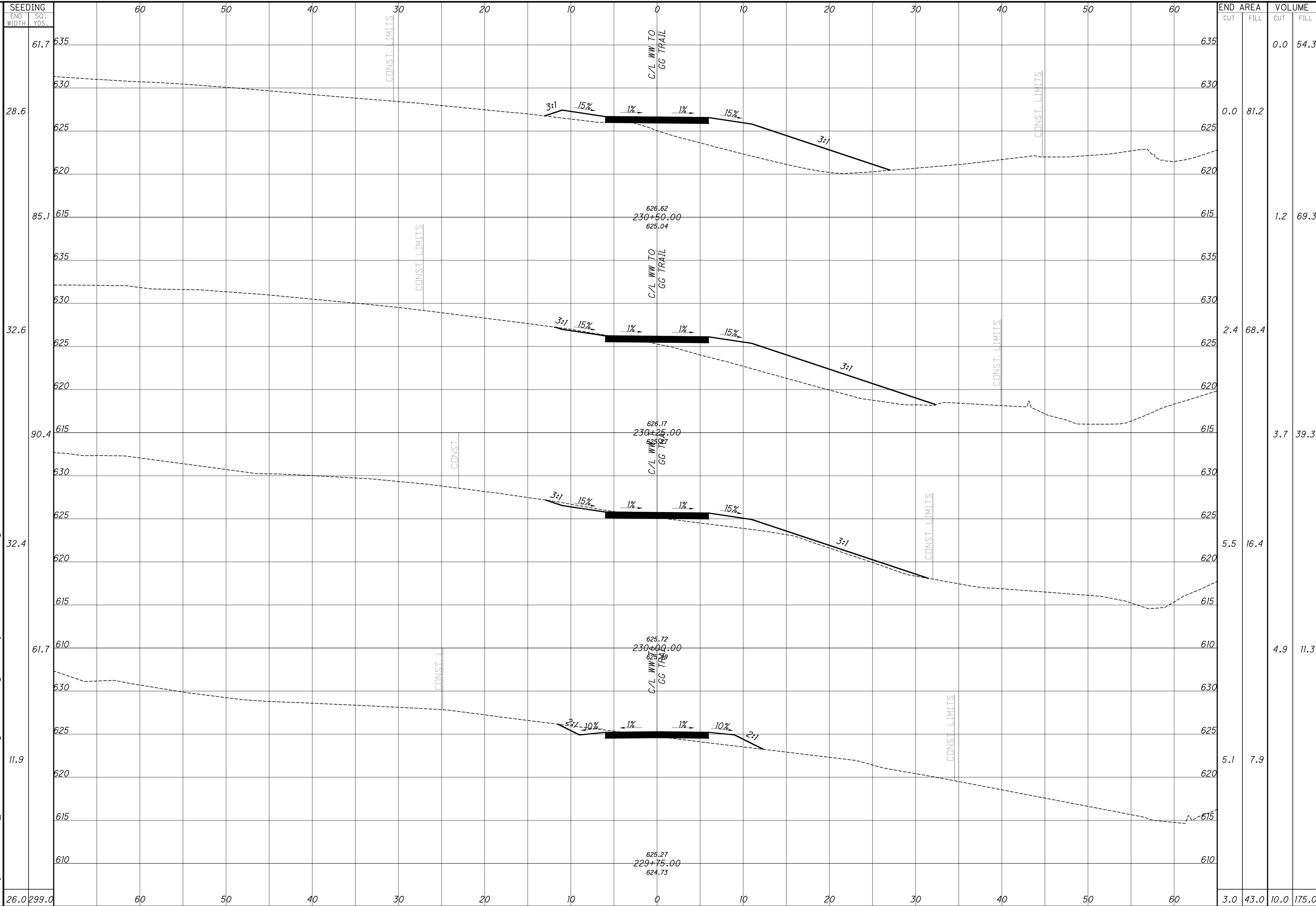
REVIEWER  
 SCR 4/1/2024

PROJECT ID  
 117016

SHEET TOTAL  
 P.150 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 229+75.00 TO STA. 230+50.00

DESIGN AGENCY  
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 700 Broadway Street  
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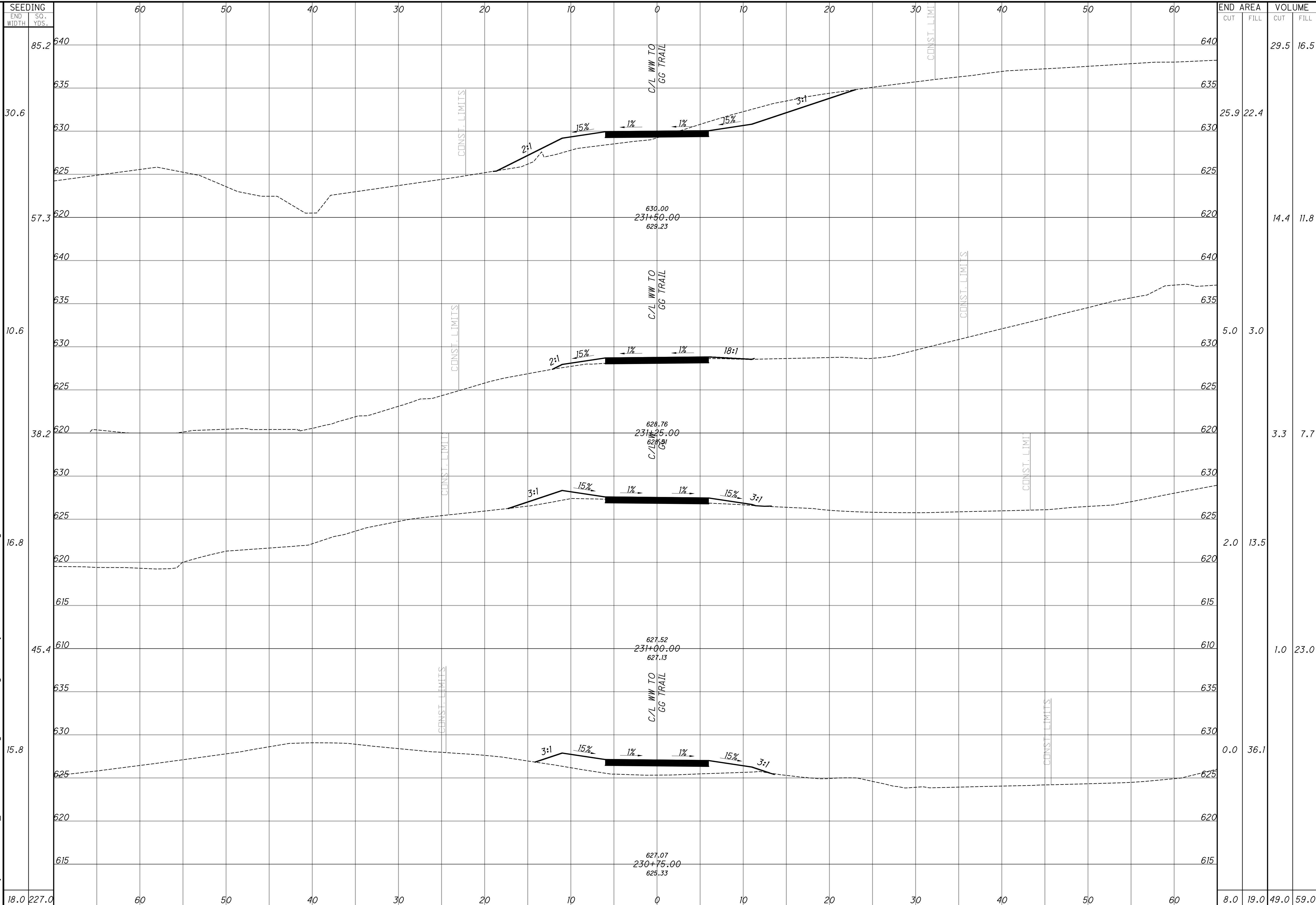
REVIEWER  
 SCR 4/1/2024

PROJECT ID  
 117016

SHEET TOTAL  
 P.151 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

F:\Projects\686100\05\_Deliverables\Drawings\117016\Design\Roadway\Sheets\117016XS039.dwg



CROSS SECTIONS - WW TO GG  
STA. 230+75.00 TO STA. 231+50.00

DESIGN AGENCY  
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REVIEWER  
SCR 4/1/2024

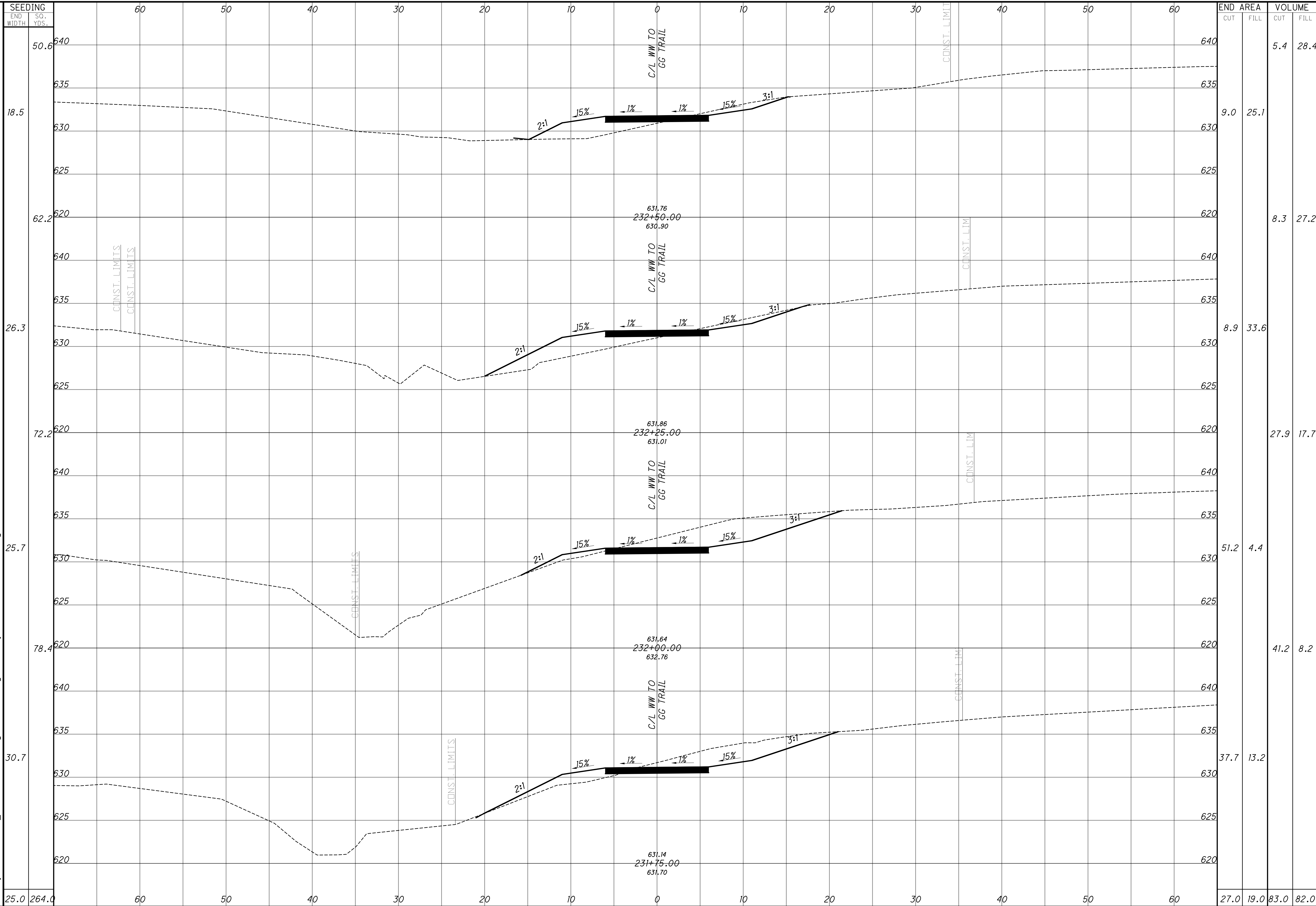
PROJECT ID  
117016

SHEET TOTAL  
P.152 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG  
STA. 231+75.00 TO STA. 232+50.00

DESIGN AGENCY  
**KZFJ-SIG**  
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 700 Broadway Street  
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 FAX 513 621 6530

DESIGNER  
 SCR

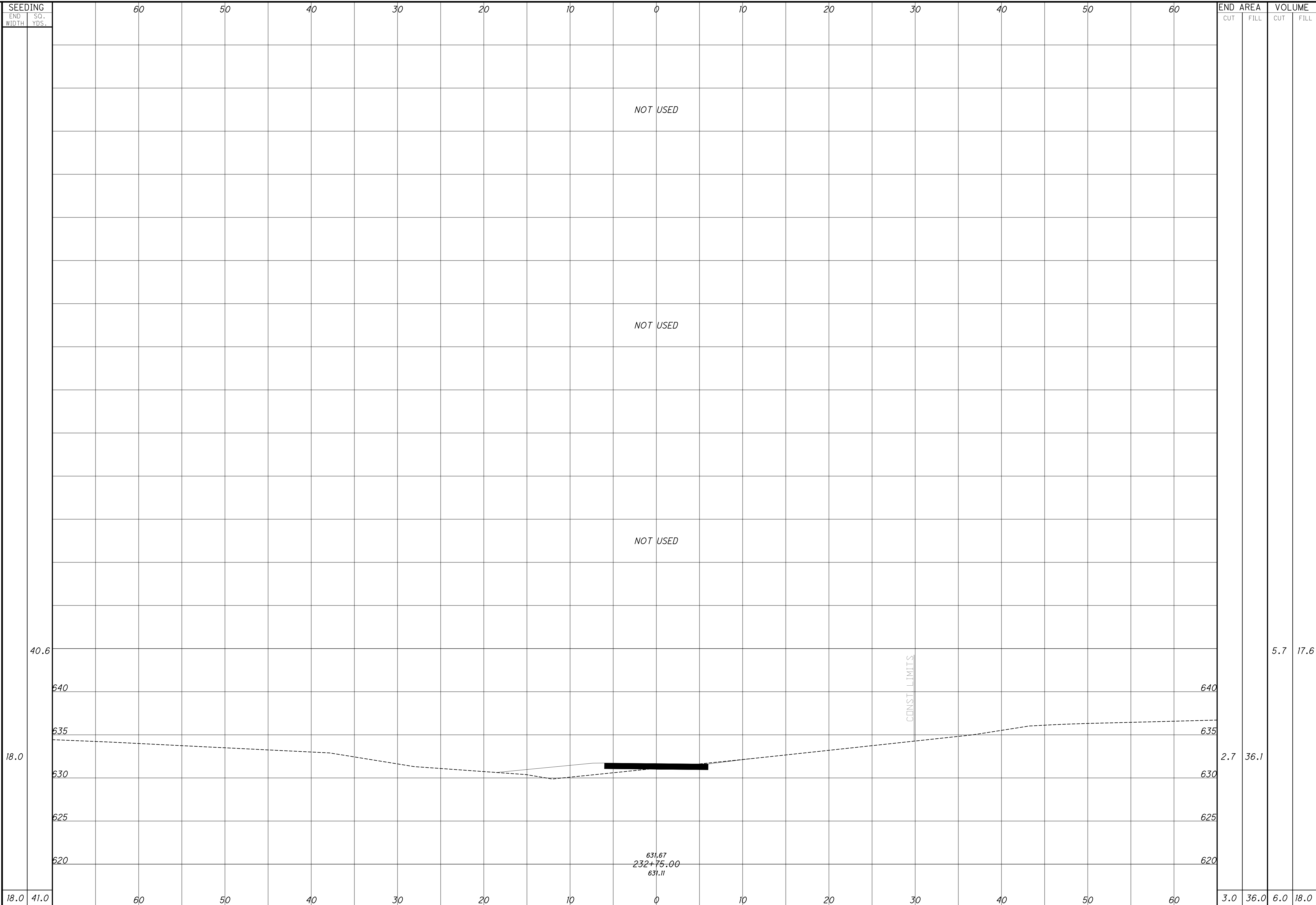
REVIEWER  
 SCR 4/1/2024

PROJECT ID  
 117016

SHEET TOTAL  
 P.153 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

F:\Projects\686100\05\_Deliverables\Drawings\117016\Design\Roadway\Sheets\117016XS039.dwg



CROSS SECTIONS - WW TO GG  
STA. 232+75.00 TO STA. 232+75.00

DESIGN AGENCY  
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FAX 513 621 6530

DESIGNER  
SCR

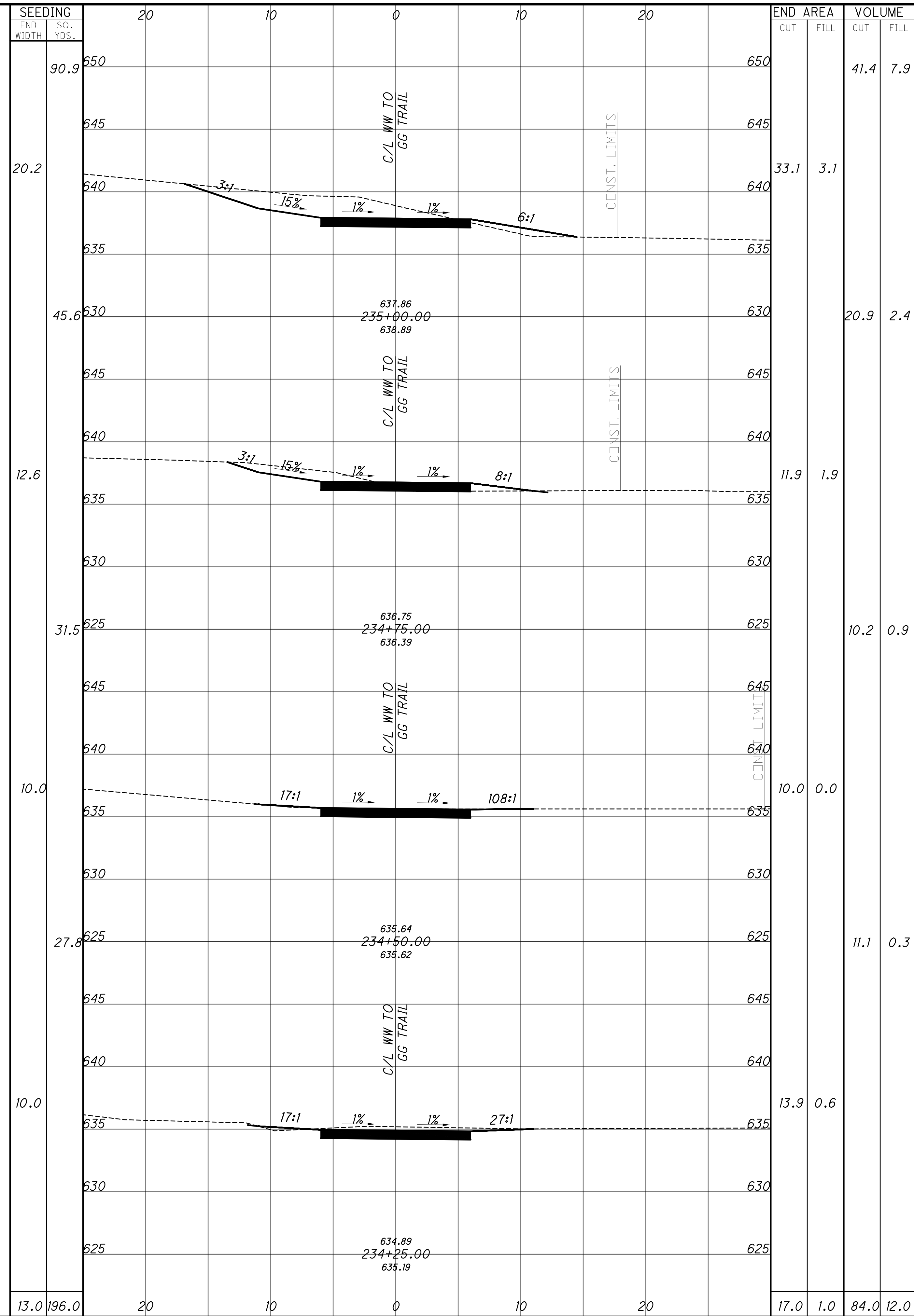
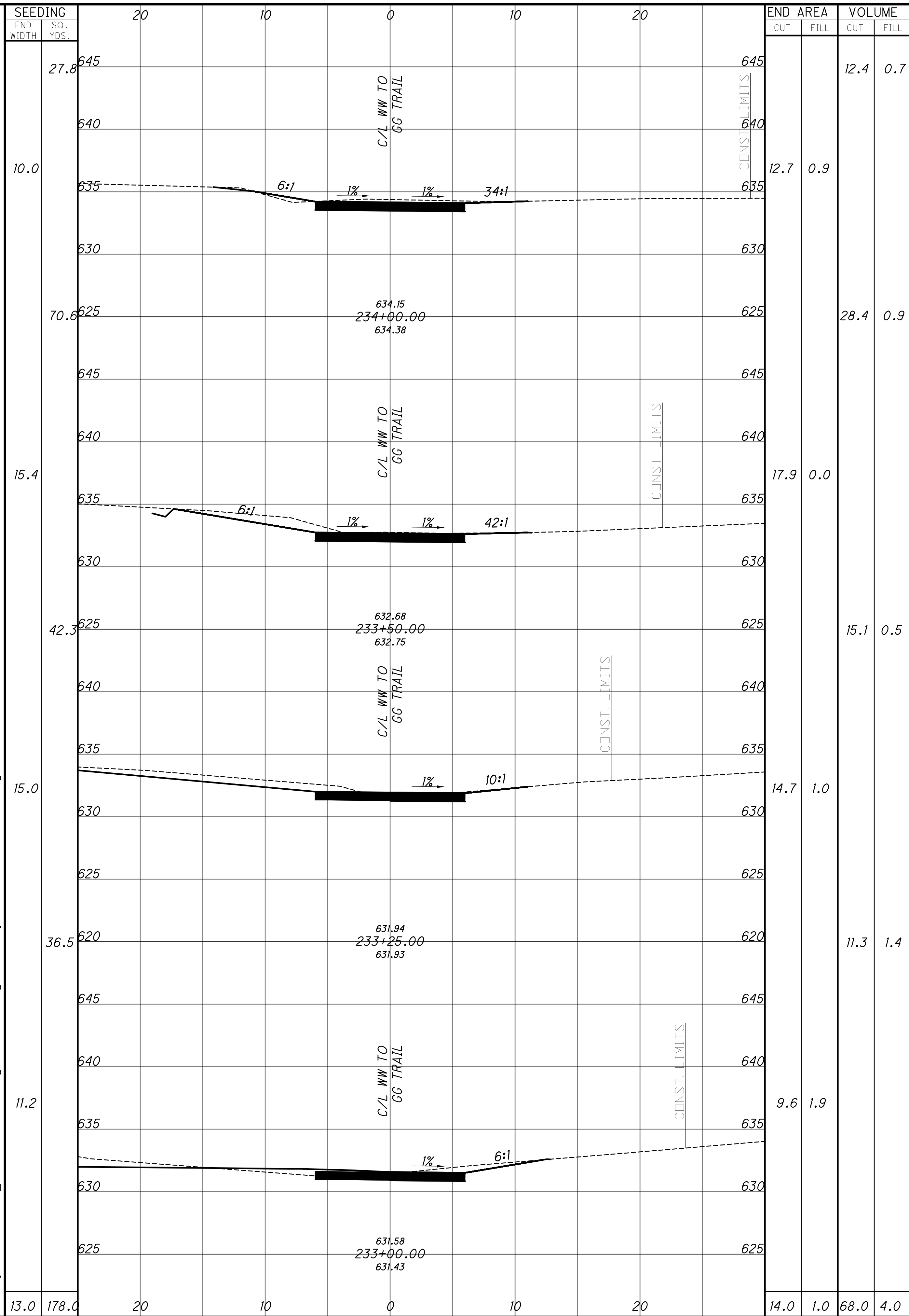
REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

SHEET TOTAL  
P.154 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

F:\Projects\686100\05\_Deliverables\Drawings\117016\Design\Roadway\Sheets\117016XS039.dwg



CROSS SECTIONS - WW TO GG  
STA. 233+00.00 TO STA. 235+00.00

DESIGN AGENCY  
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 TEL 513 621 6211  
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PROJECT ID  
 117016

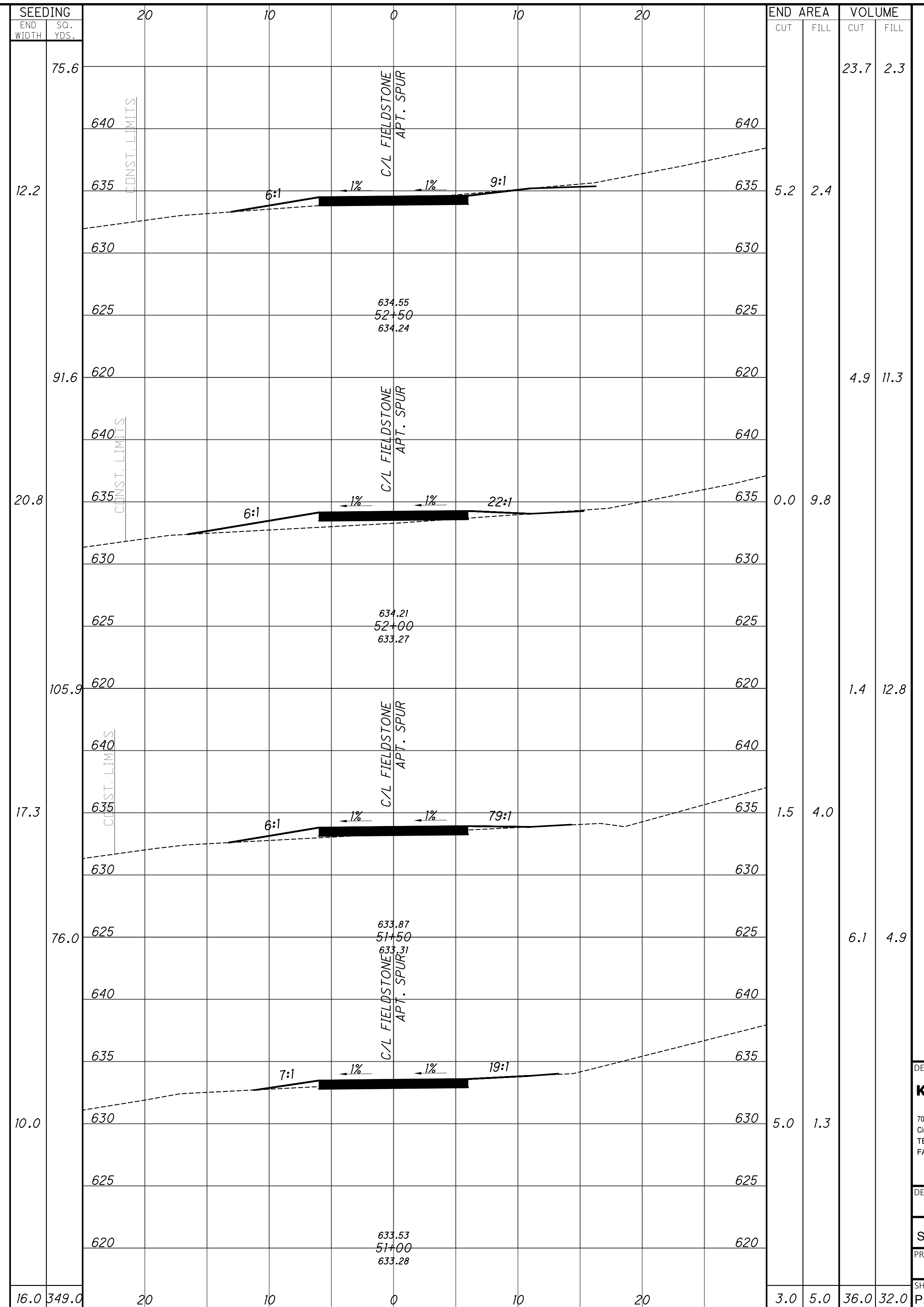
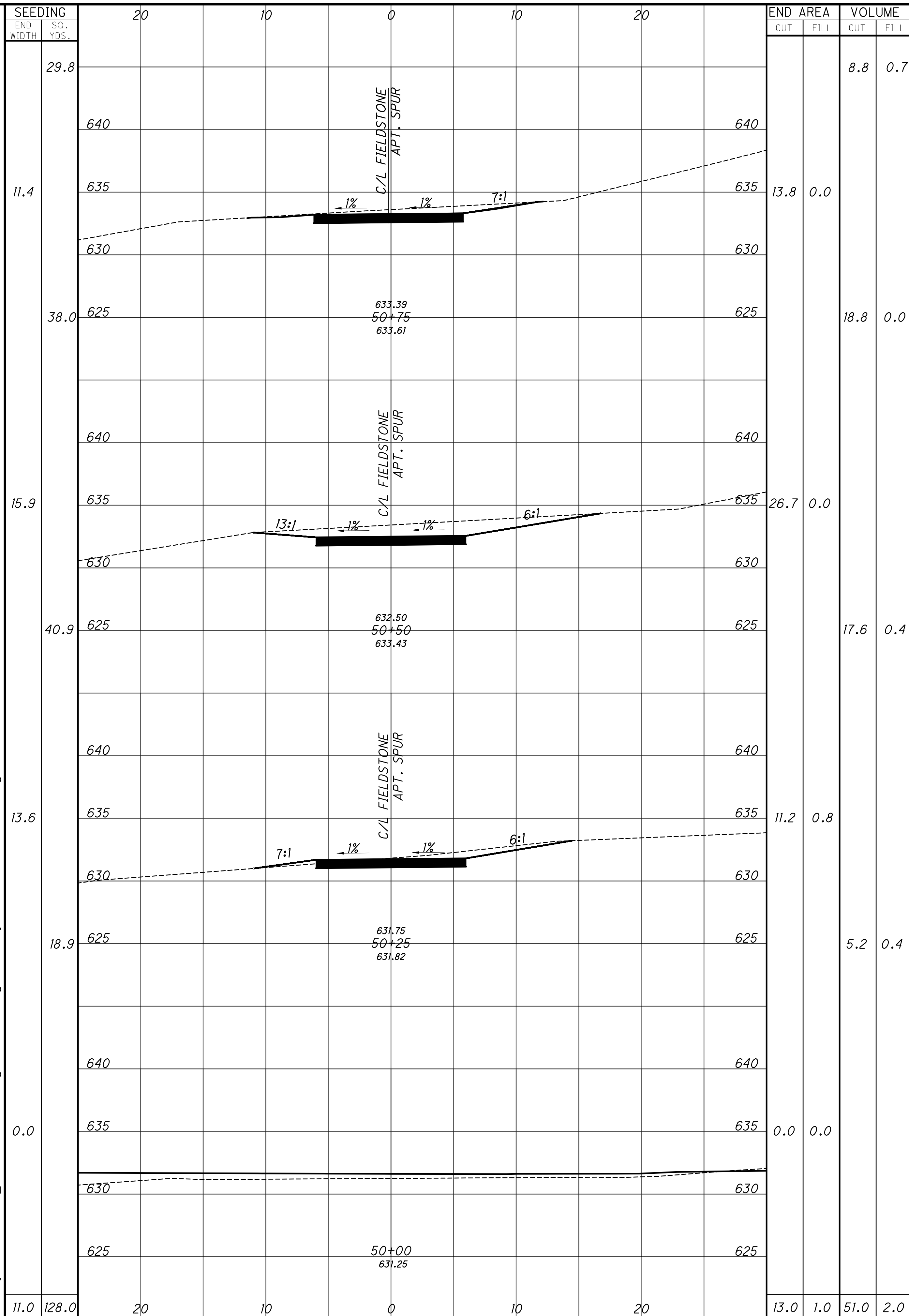
SHEET TOTAL  
 P.155 210





HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - FIELDSTONE DRIVE  
STA. 50+00.00 TO STA. 52+50.00

DESIGN AGENCY



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Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

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REVIEWER

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PROJECT ID

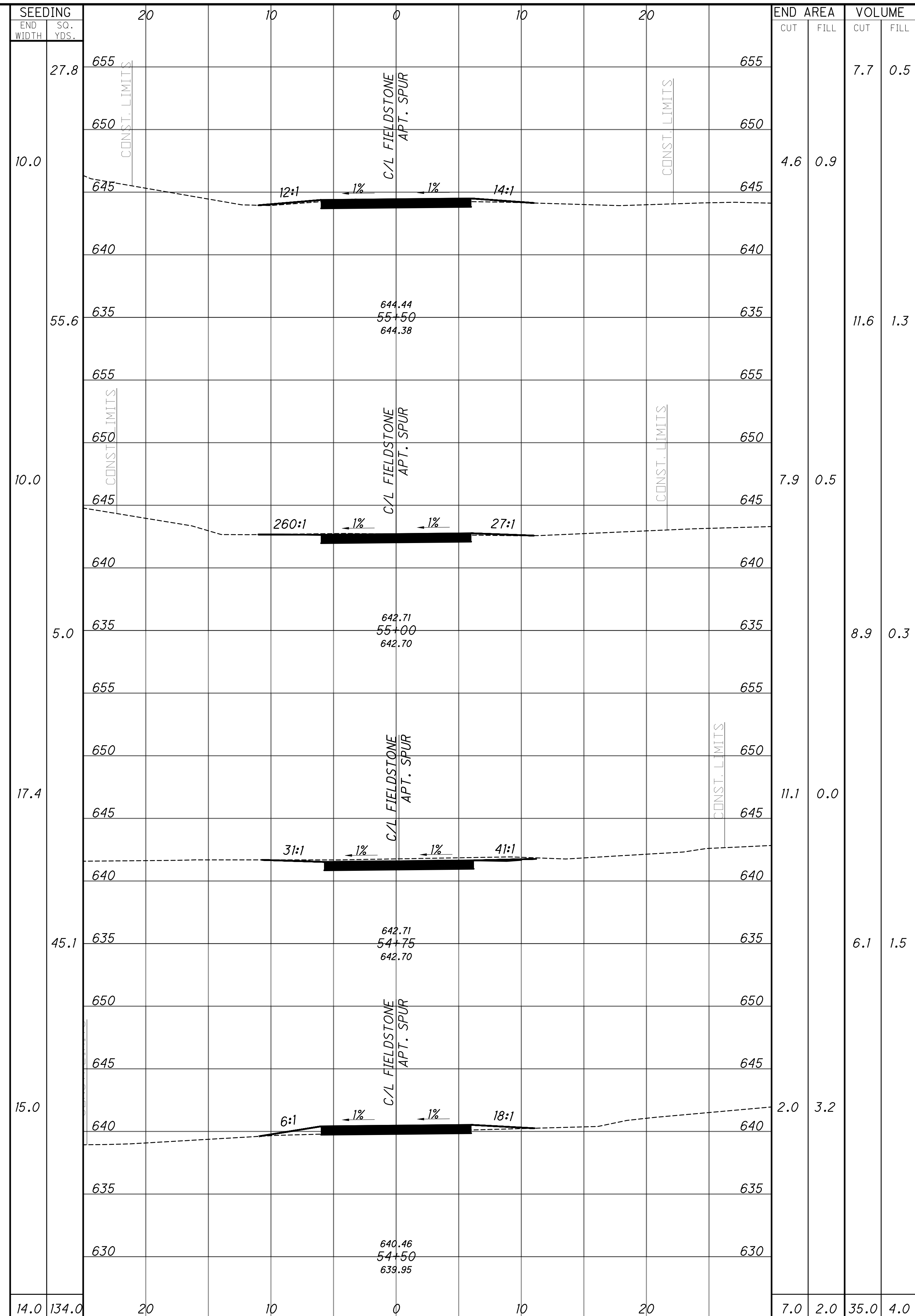
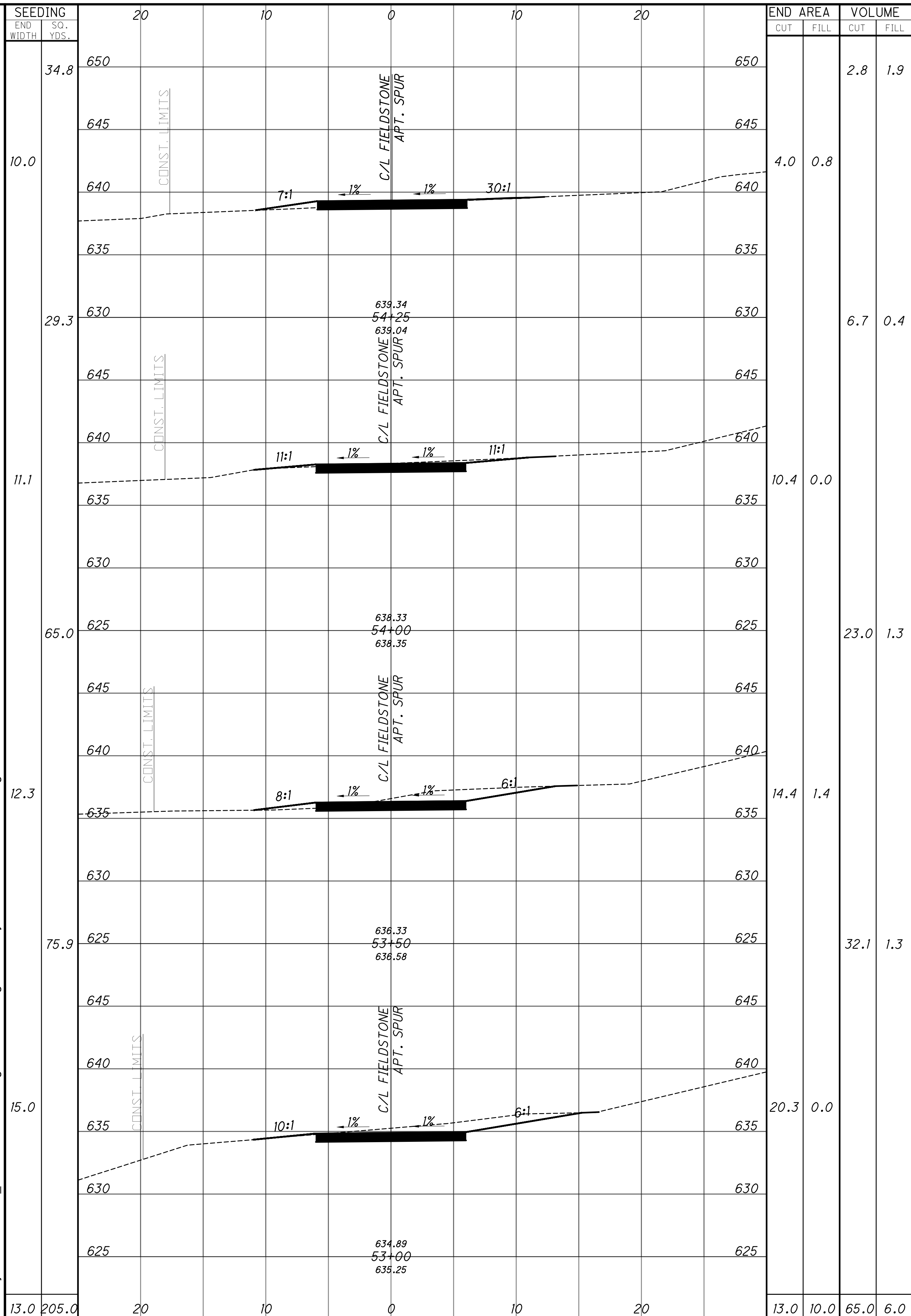
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SHEET TOTAL

P.157 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - FIELDSTONE DRIVE  
STA. 53+00.00 TO STA. 55+50.00

DESIGN AGENCY  
**KZFJ-SIG**  
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700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
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DESIGNER  
SCR

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SCR 4/1/2024

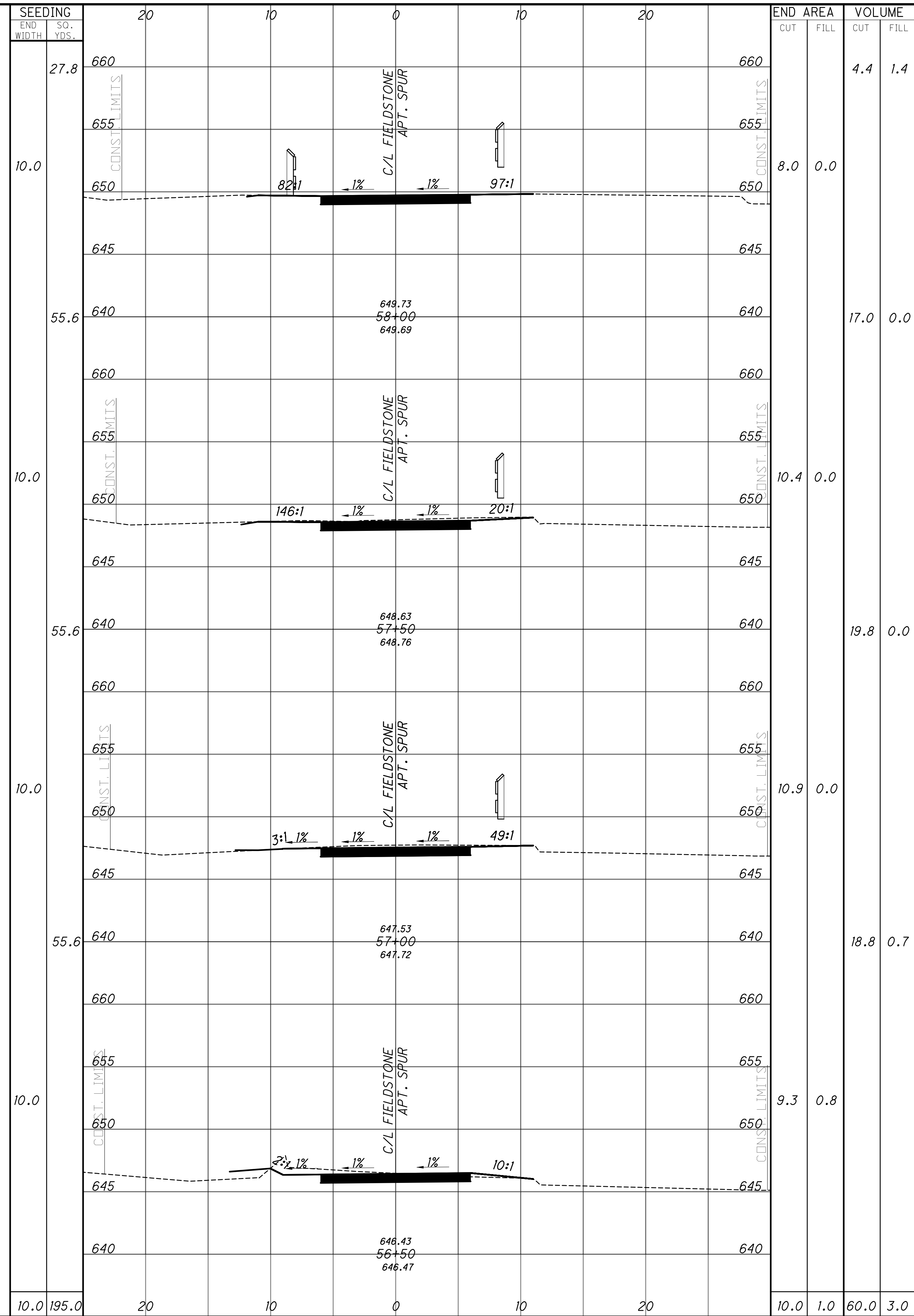
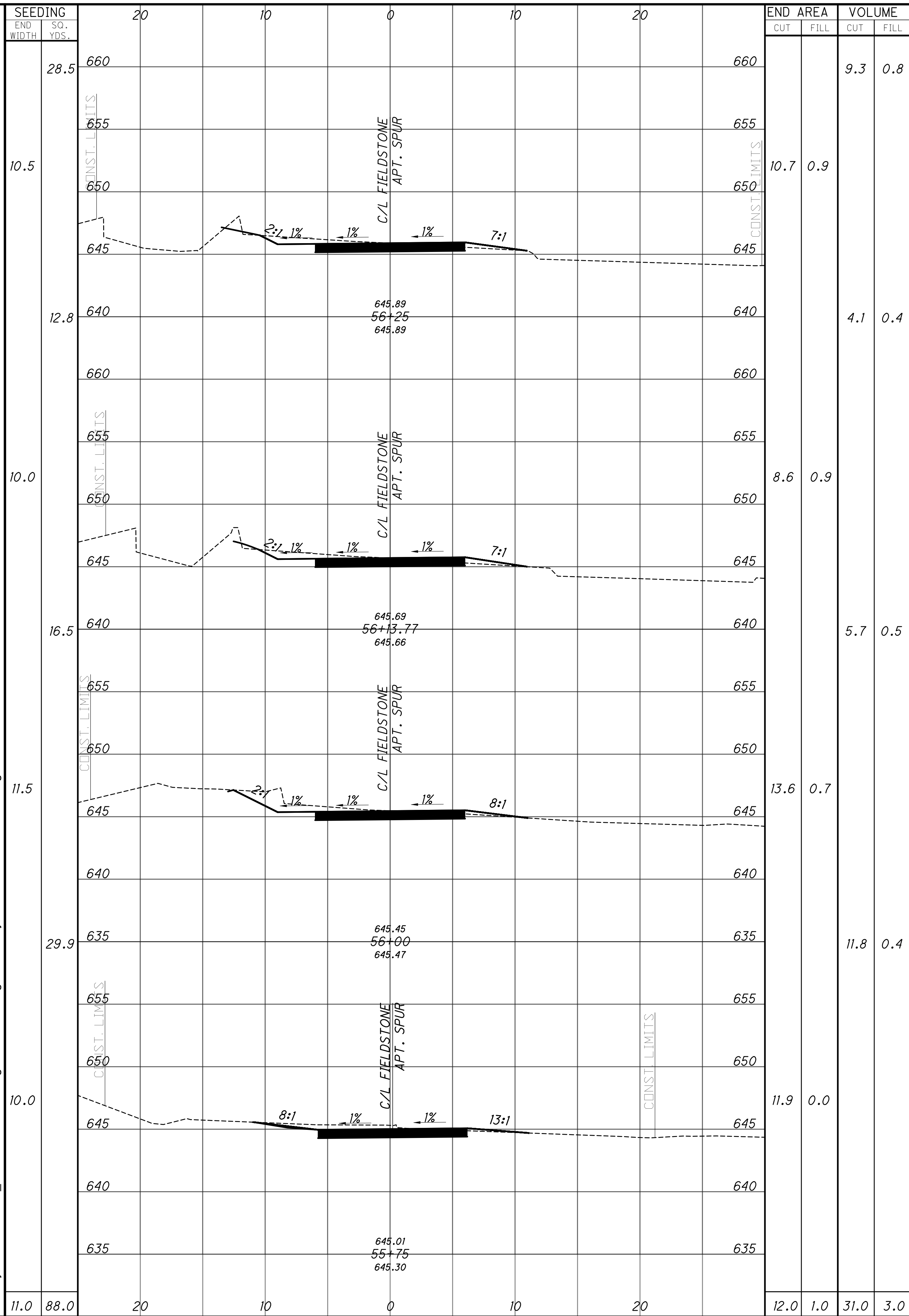
PROJECT ID  
117016

SHEET TOTAL  
P.158 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

F:\Projects\686100\05\_Deliverables\Drawings\117016\Design\Roadway\Sheets\117016XS064.dwg



CROSS SECTIONS - FIELDSTONE DRIVE  
STA. 55+75.00 TO STA. 58+00.00

DESIGN AGENCY  
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DESIGNER  
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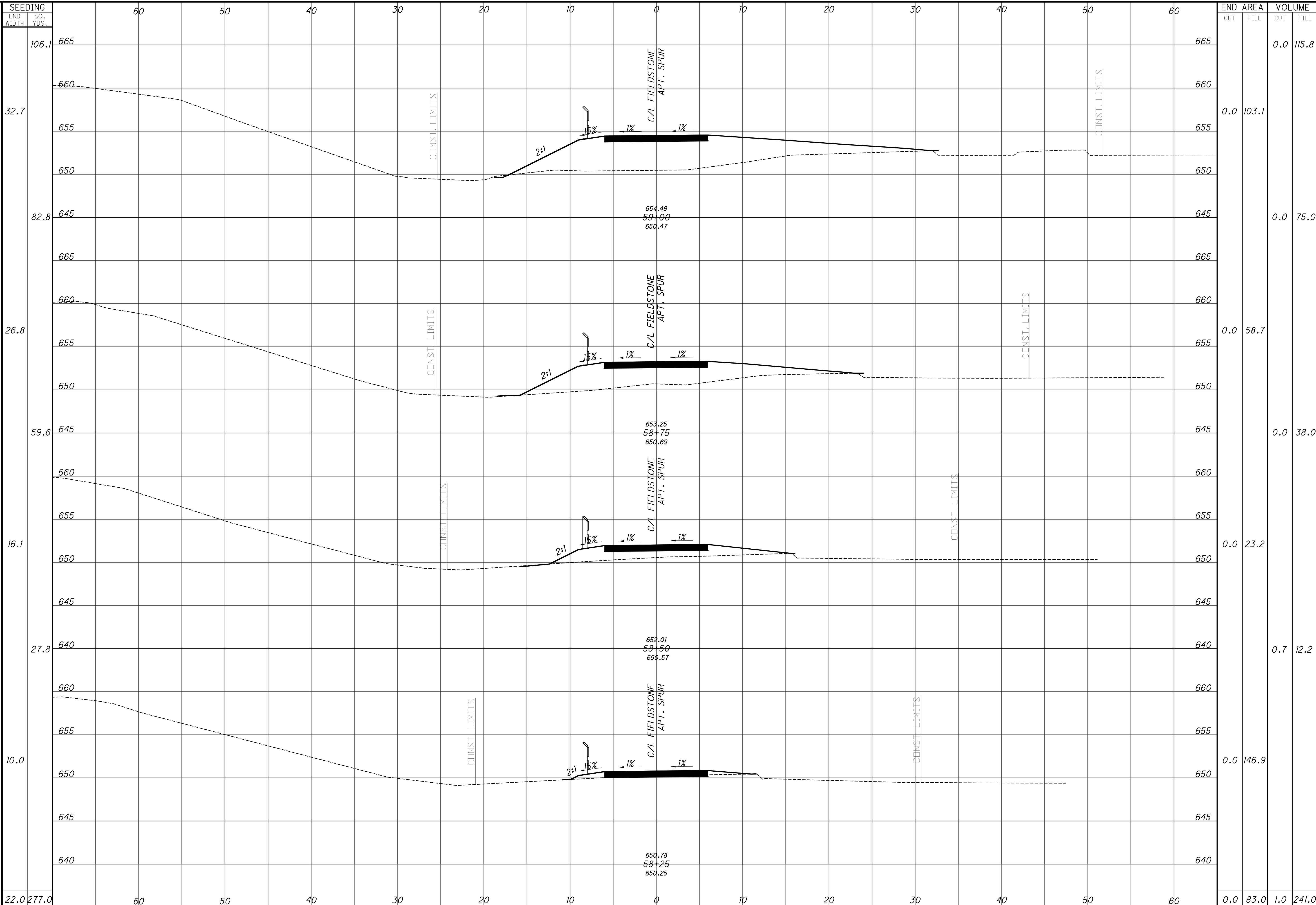
REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

SHEET TOTAL  
P.159 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

F:\Projects\686100\05\_Deliverables\Drawings\117016\Design\Roadway\Sheets\117016XS064.dwg



SEEDING	SO. YDS.	
	END WIDTH	
106.1	665	665
32.7	660	660
	655	655
	650	650
82.8	645	645
	665	665
26.8	660	660
	655	655
	650	650
59.6	645	645
	660	660
	655	655
	650	650
16.1	645	645
	660	660
	655	655
	650	650
27.8	640	640
	660	660
	655	655
	650	650
10.0	645	645
	660	660
	655	655
	650	650
22.0	640	640

END AREA	VOLUME	
	CUT	FILL
0.0	115.8	0.0
0.0	103.1	0.0
0.0	75.0	0.0
0.0	58.7	0.0
0.0	38.0	0.0
0.0	23.2	0.0
0.7	12.2	0.0
0.0	146.9	0.0
0.0	83.0	1.0
0.0	241.0	0.0

CROSS SECTIONS - FIELDSTONE DRIVE  
STA. 58+25.00 TO STA. 59+00.00

DESIGN AGENCY  
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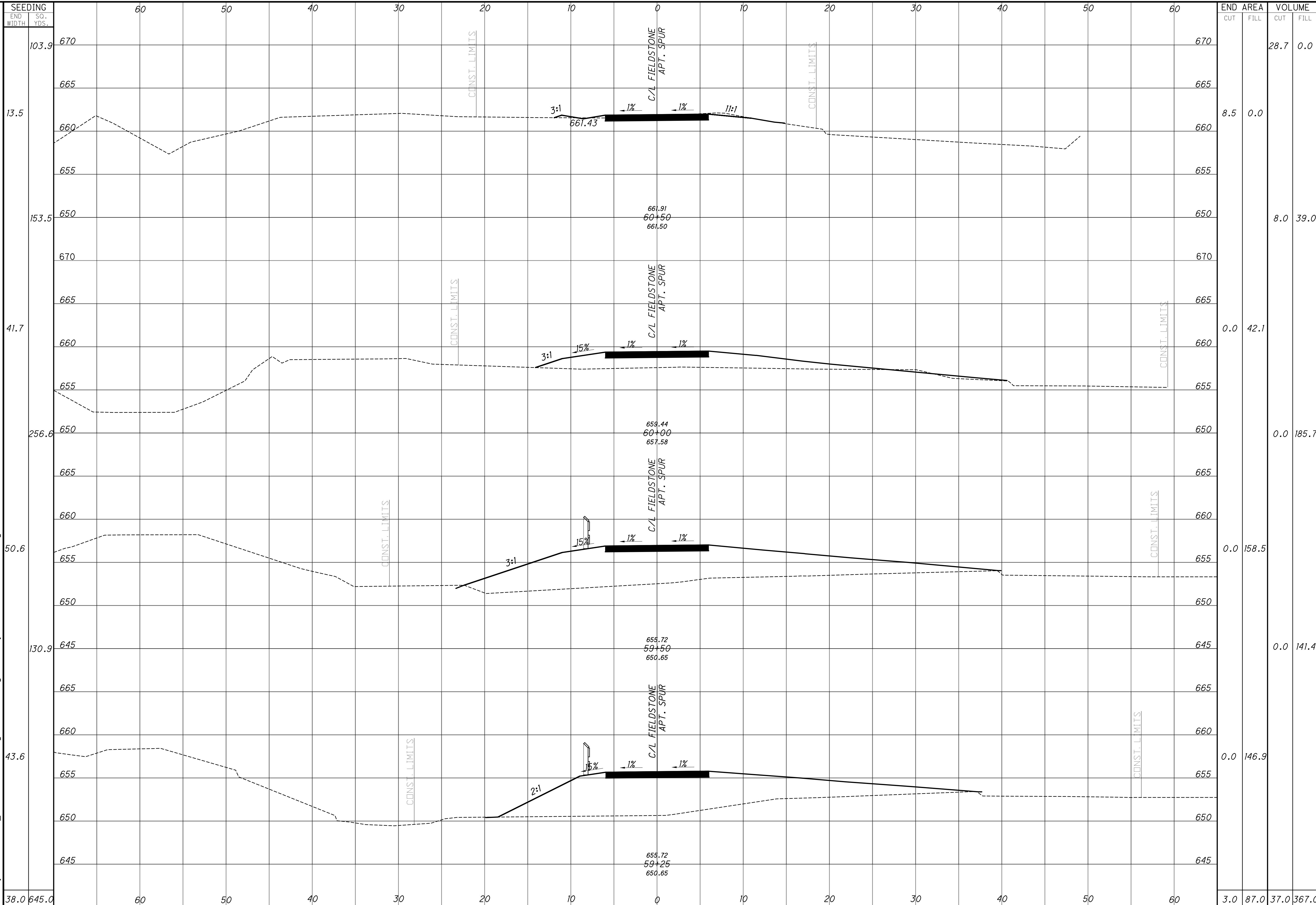
REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

SHEET TOTAL  
P.160 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

F:\Projects\686100\05\_Deliverables\Drawings\117016\Design\Roadway\Sheets\117016XS064.dwg



SEEDING	SO. YDS.	
	END WIDTH	
13.5	670	670
153.5	665	665
41.7	660	660
256.6	655	655
50.6	650	650
130.9	645	645
43.6	640	640
38.0	635	635

END AREA	VOLUME	
	CUT	FILL
8.5	0.0	0.0
8.0	39.0	
0.0	42.1	
0.0	185.7	
0.0	158.5	
0.0	141.4	
0.0	146.9	
3.0	87.0	37.0
		367.0

CROSS SECTIONS - FIELDSTONE DRIVE  
STA. 59+00.00 TO STA. 60+50.00

DESIGN AGENCY  
**KZFJ-SIG**  
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TEL 513 621 6211  
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DESIGNER  
SCR

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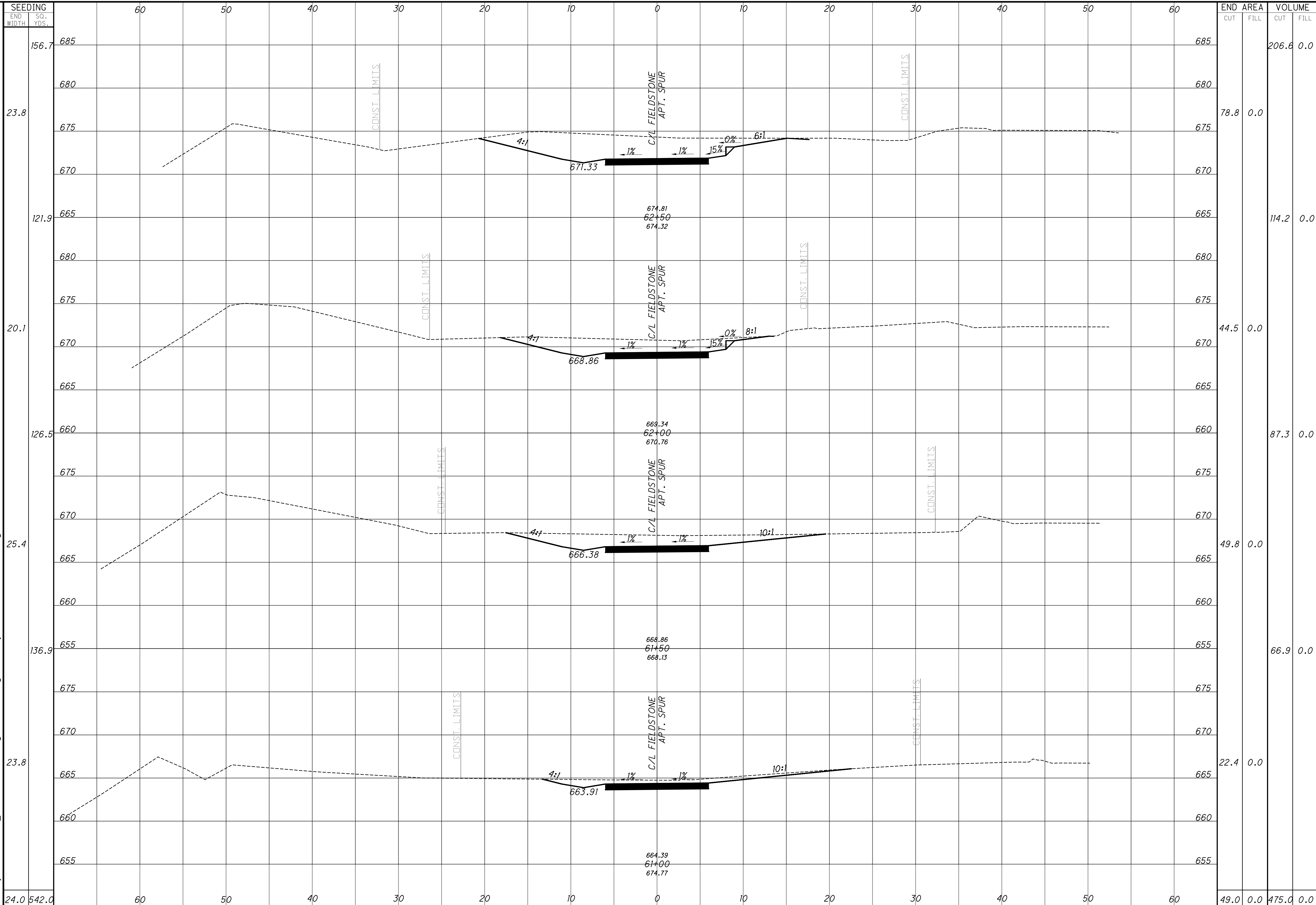
PROJECT ID  
117016

SHEET TOTAL  
P.161 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

F:\Projects\686100\05\_Deliverables\Drawings\117016\Design\Roadway\Sheets\117016XS064.dwg



CROSS SECTIONS - FIELDSTONE DRIVE  
STA. 61+00.00 TO STA. 62+50.00

DESIGN AGENCY  
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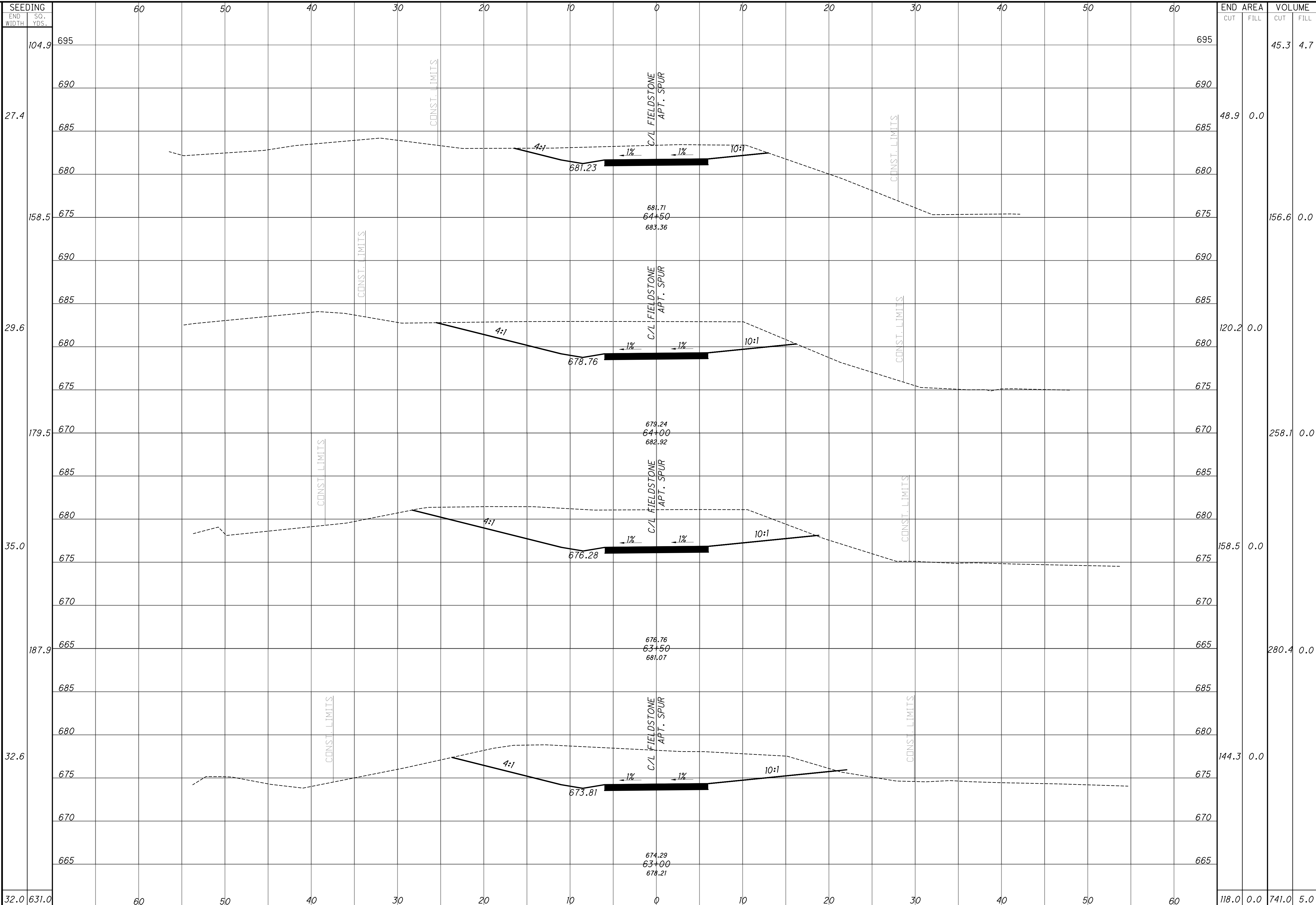
REVIEWER  
SCR 4/1/2024

PROJECT ID  
117016

SHEET TOTAL  
P.162 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

F:\Projects\686100\05\_Deliverables\Drawings\117016\Design\Roadway\Sheets\117016XS064.dwg



SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
104.9	695	695	45.3	4.7
27.4	685	685	48.9	0.0
158.5	675	675	156.6	0.0
29.6	685	685	120.2	0.0
179.5	670	670	258.1	0.0
35.0	675	675	158.5	0.0
187.9	665	665	280.4	0.0
32.6	675	675	144.3	0.0
32.0	665	665	118.0	0.0

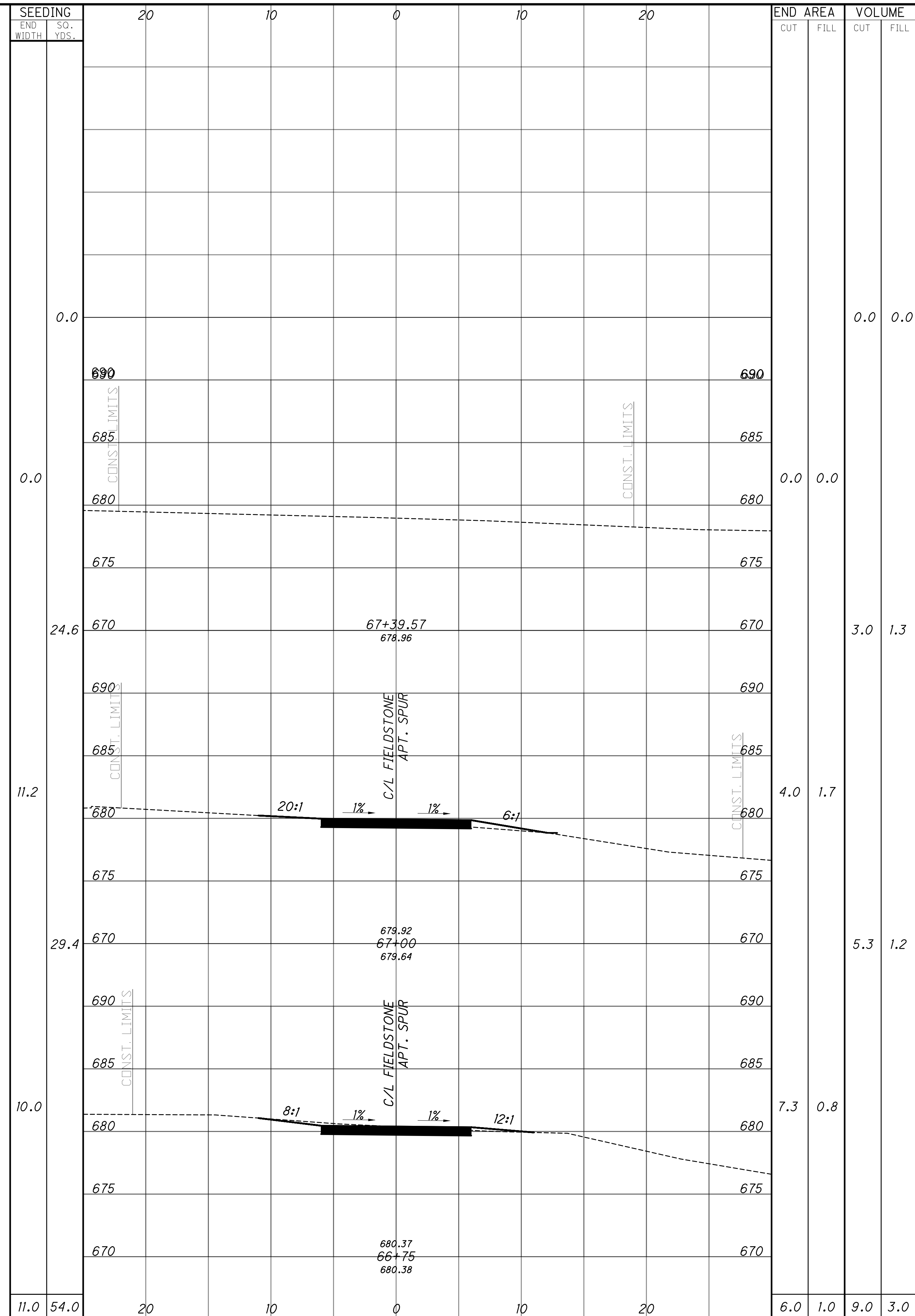
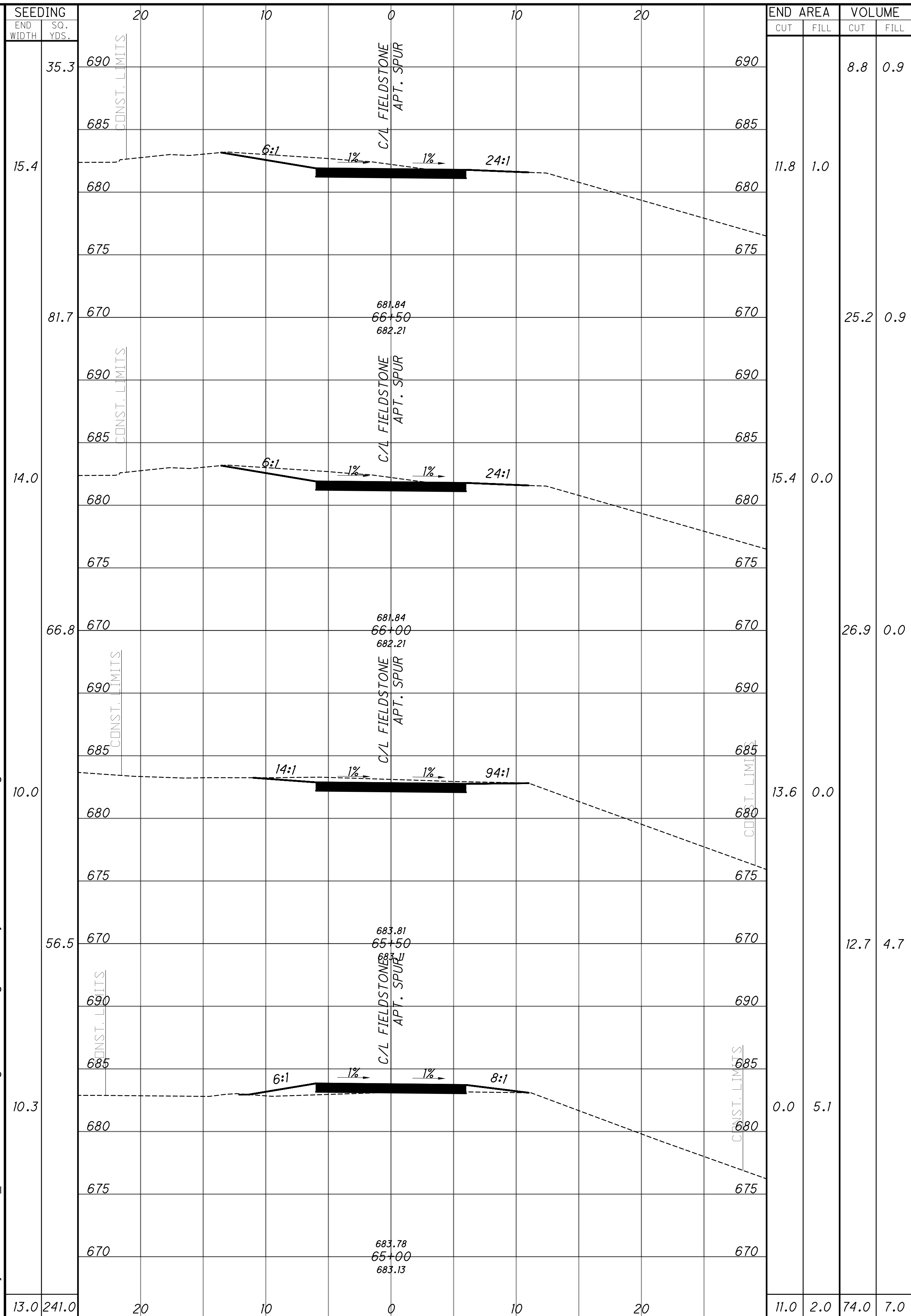
CROSS SECTIONS - FIELDSTONE DRIVE  
STA. 63+00.00 TO STA. 64+50.00

DESIGN AGENCY  
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DESIGNER  
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PROJECT ID  
117016  
SHEET TOTAL  
P.163 210

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - FIELDSTONE DRIVE  
STA. 65+00.00 TO STA. 67+39.57

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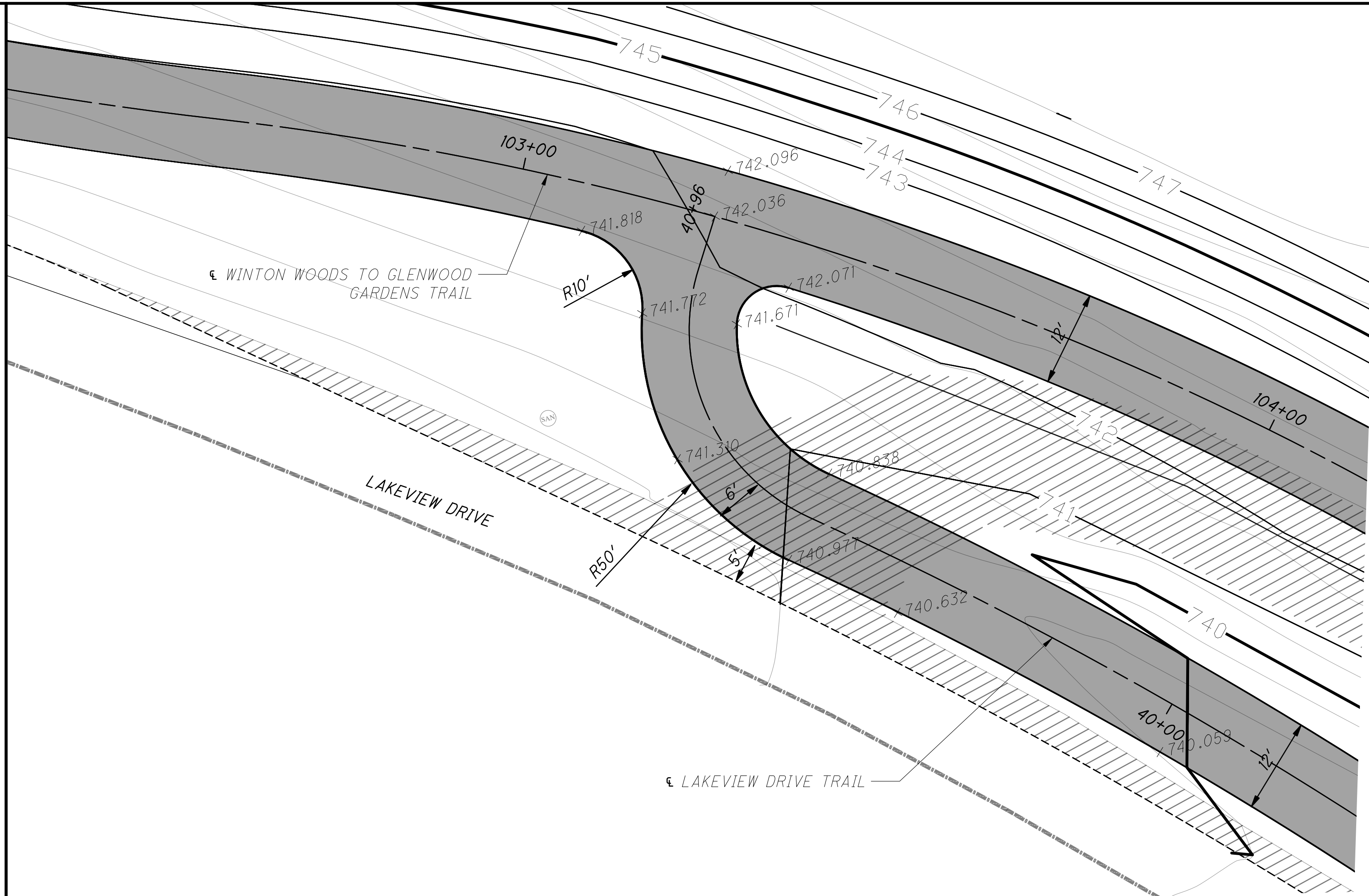
DESIGNER  
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REVIEWER  
SCR 4/1/2024

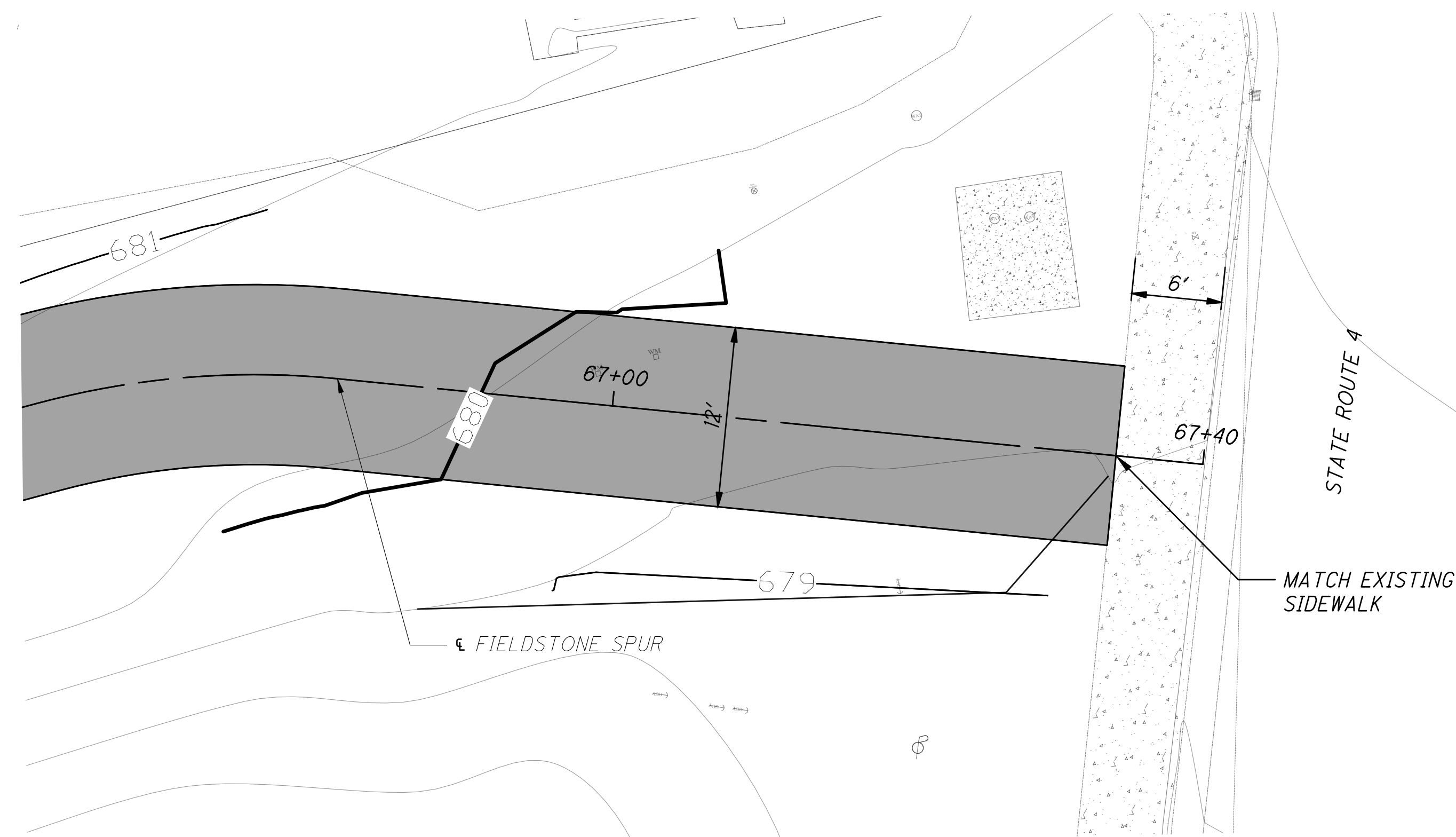
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117016

SHEET TOTAL  
P.164 210





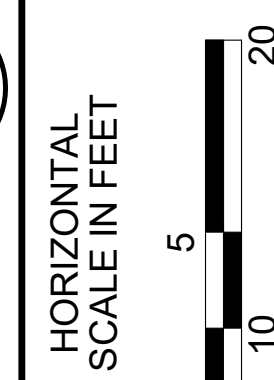
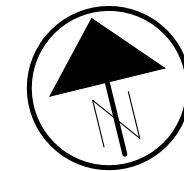
WINTON WOODS TO GLENWOOD GARDENS TRAIL AND LAKEVIEW DRIVE TRAIL INTERSECTION



FIELDSTONE SPUR AND SR 4 INTERSECTION



WINTON WOODS TO GLENWOOD GARDENS TRAIL AND FIELDSTONE SPUR INTERSECTION



INTERSECTION DETAILS

DESIGN AGENCY





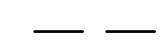

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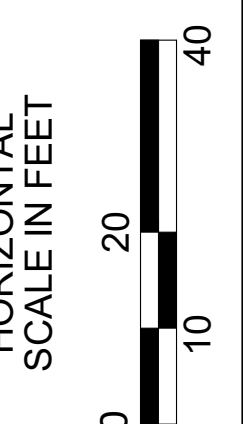
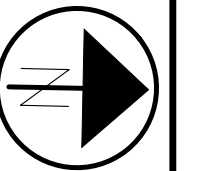
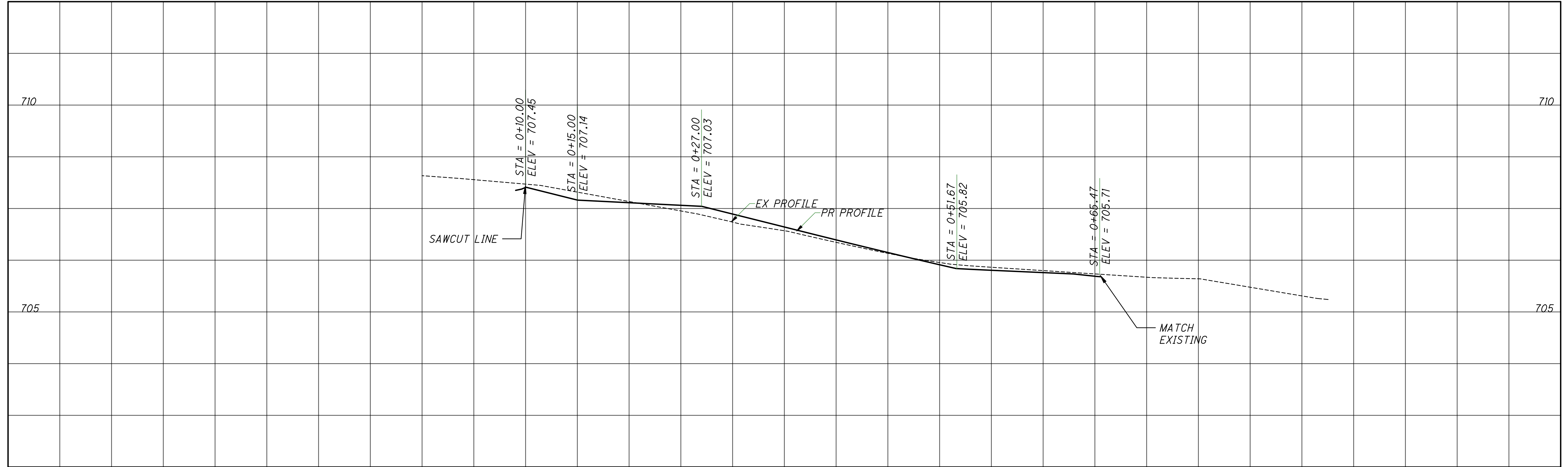
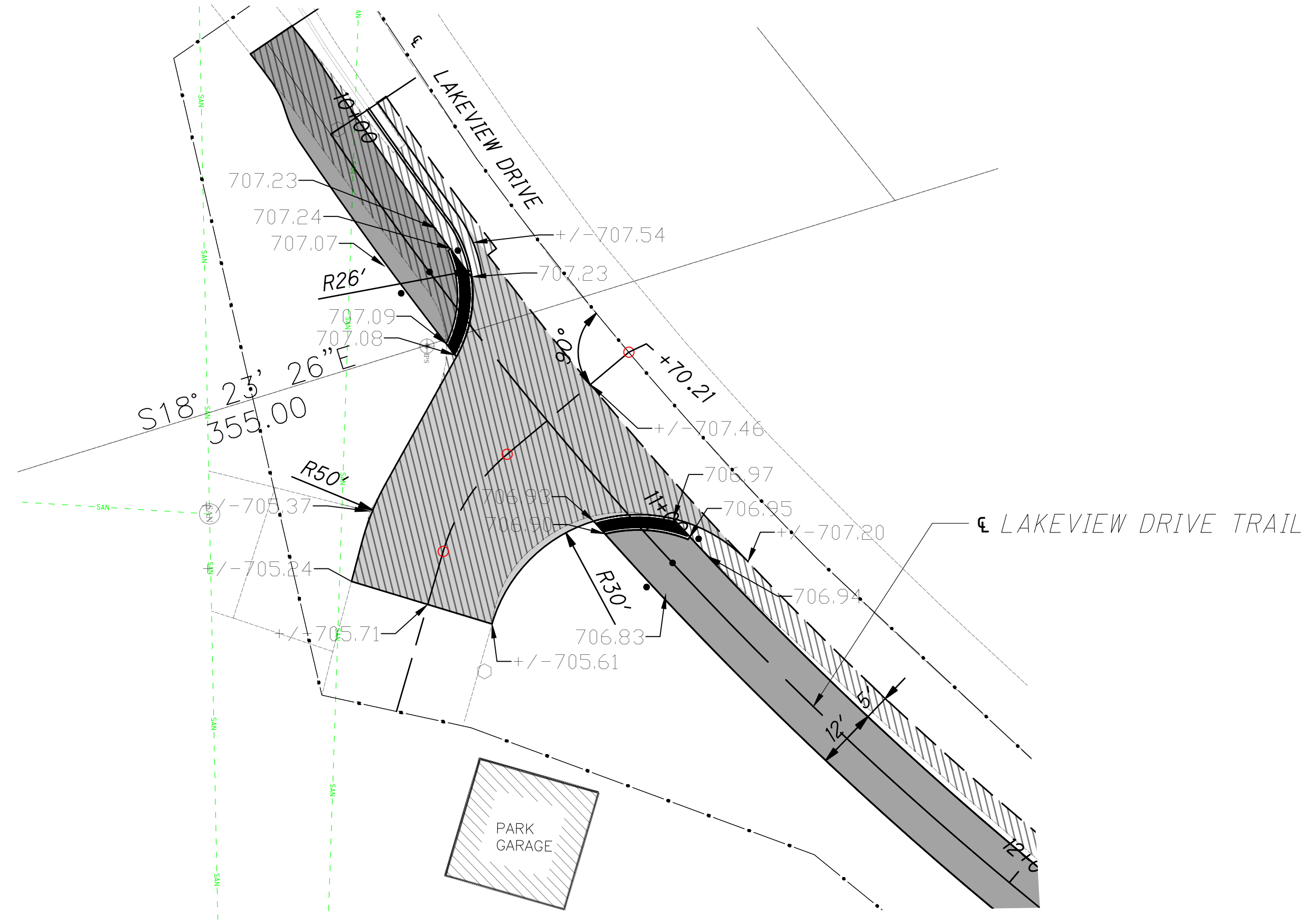
DESIGNER  
SCR

REVIEWER  
SCR

PROJECT ID  
117016

SHEET	TOTAL
P.165	210

- LEGEND**
-  CONSTRUCTION LIMITS
  -  PROPOSED ASPHALT PAVEMENT
  -  SAWCUT
  -  PROPOSED DRIVEWAY PAVEMENT



DRIVEWAY DETAIL  
WINTON WOODS SERVICE GARAGE

DESIGN AGENCY  
**KZFJ-SIGN**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

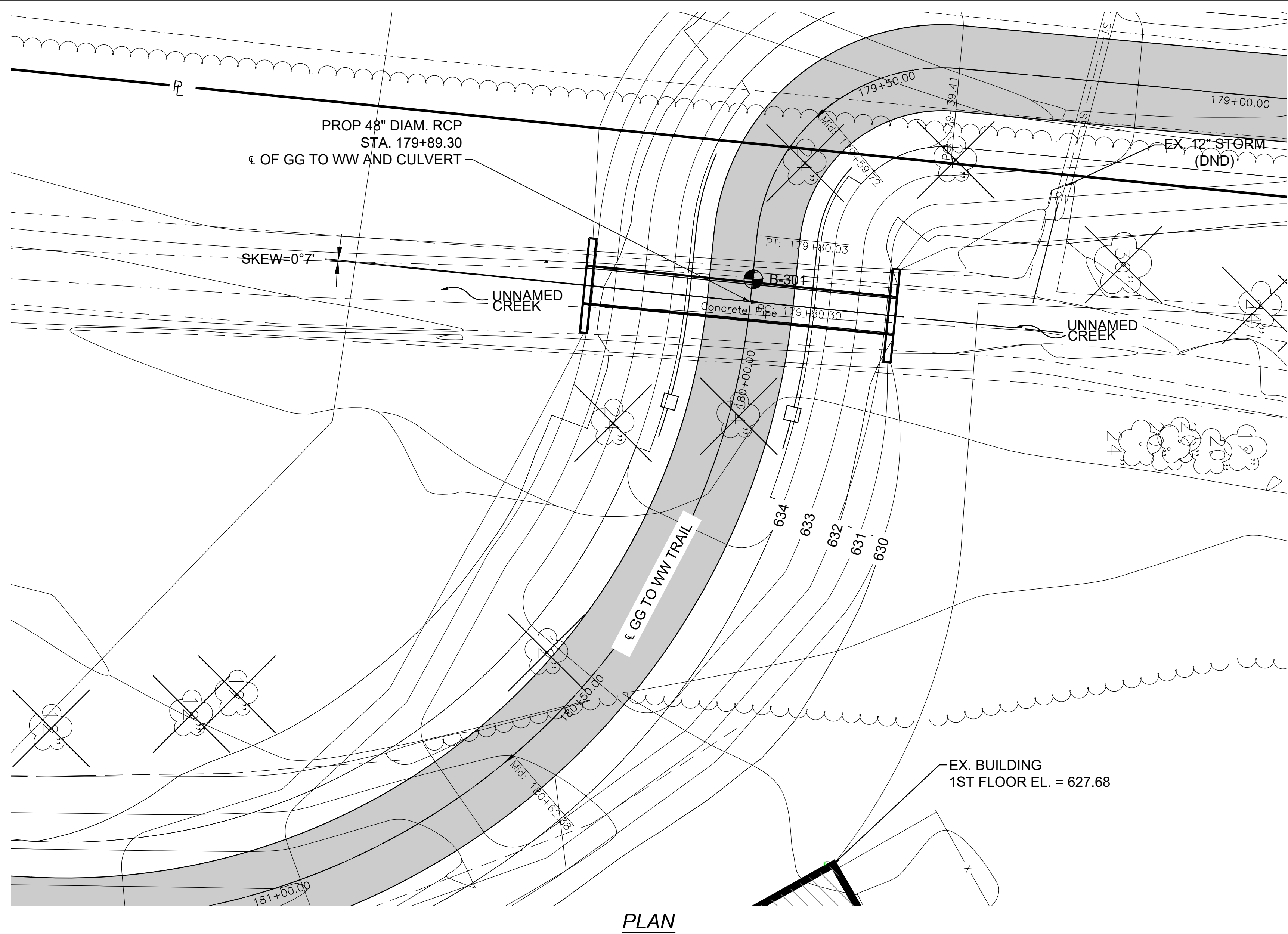
DESIGNER  
SCR

REVIEWER  
SCR 10/2/2023

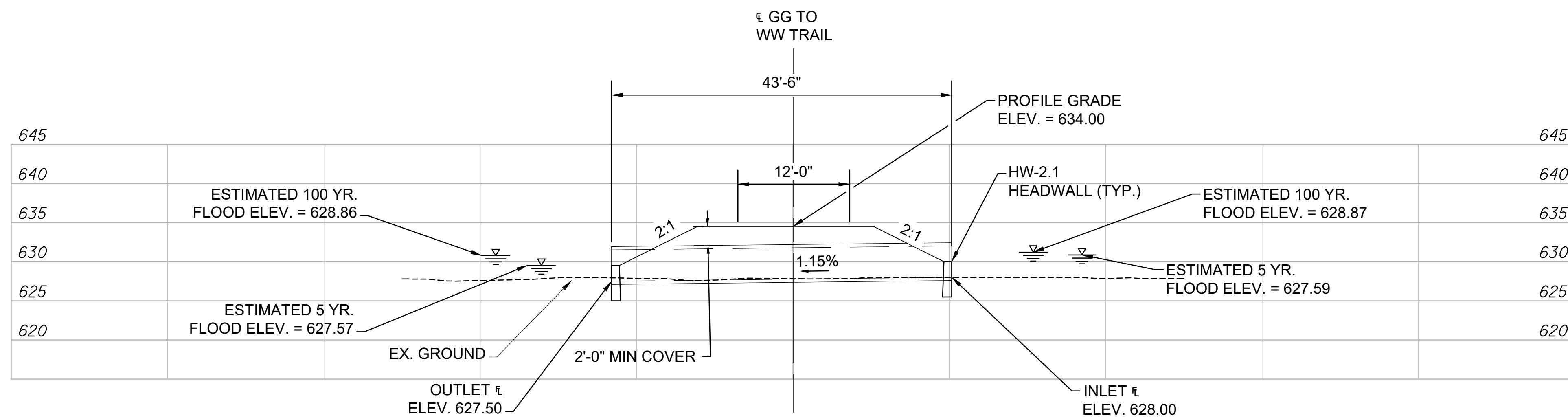
PROJECT ID  
117016

SHEET TOTAL  
P.166 210





PLAN



PROFILE ALONG CENTERLINE OF PROP 43'-6" 48" DIAM. POLYPROPYLENE CORRUGATED PIPE, 707.62

ESTIMATED QUANTITIES				
ITEM	ITEM EXT.	QUANTITY	UNIT	DESCRIPTION
201	11000	1	LS	CLEARING AND GRUBBING
203	20000	36	CY	EMBANKMENT
301	56000	1	CY	3" ASPHALT CONCRETE BASE, PG64-22 (449)
304	20000	2	CY	6" AGGREGATE BASE
441	70000	1	CY	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449) PG 64-22
512	10050	10	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
602	20000	2.2	CY	CONCRETE MASONRY HALF-HEIGHT HEADWALLS
611	20900	43.5	LF	48" POLYPROPYLENE CORRUGATED PIPE, TYPE B CONDUIT, 707.62
614	11000	1	LS	MAINTAINING TRAFFIC
624	10000	1	LS	MOBILIZATION

NOTES

- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS
- NOT ALL UTILITIES ARE SHOWN IN THE PROFILE. SEE TRAIL CROSS SECTIONS FOR ALL UTILITIES IN THE AREA.

LEGEND

● BORING LOCATION

HYDRAULIC DATA

DRAINAGE AREA = 0.23 SQ. MILES  
 Q(5) = 10 CFS V(5) = 2.68 FPS  
 Q(100) = 378 CFS V(100) = 2.22 FPS

PROPOSED STRUCTURE

TYPE: 48" DIAM. POLYPROPYLENE CORRUGATED PIPE CULVERT

LENGTH: 43'-6"

ROADWAY: 12'-0" WIDTH

LOADING: H-10

SKEW: 0°7'

ALIGNMENT: TANGENT

CULVERT FILE NUMBER: NONE

HORIZONTAL SCALE IN FEET  
 0 2 4 6 8 10  
 FEET

SITE PLAN  
 CULVERT AT STA. 179+89.30 (SITE 1)

SFN

N/A

DESIGN AGENCY



RIWAY ENGINEERING GROUP, INC.  
 300 E. BROAD ST.  
 SUITE 500  
 COLUMBUS, OHIO 43215  
 PH. NO. (614) 221-6009  
 FAX NO. (614) 221-9089

DESIGNER/CHECKER

AP LI

REVIEWER

AE/JC 03/27/24

PROJECT ID

117016

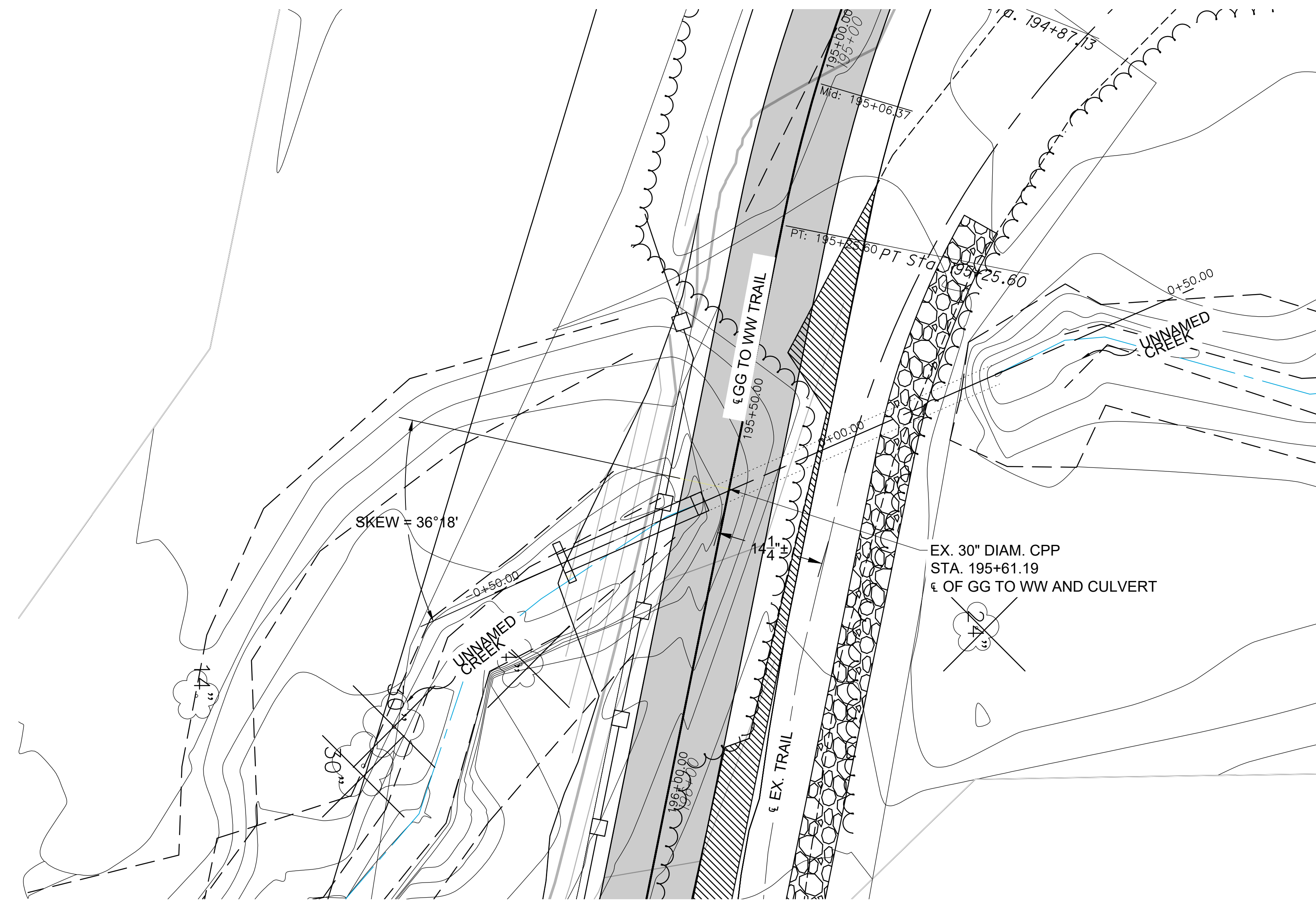
SUBSET TOTAL

1 1

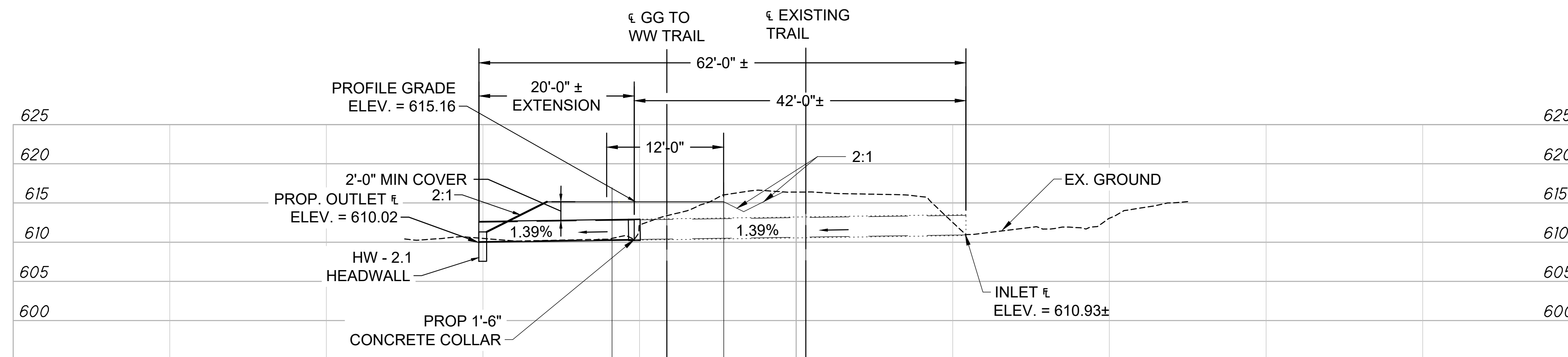
SHEET TOTAL

170 210





PLAN



PROFILE ALONG CENTERLINE OF PROP 62'-0" 30" DIAM POLYPROPYLENE CORRUGATED PIPE, 707.62 CULVERT EXTENSION

ESTIMATED QUANTITIES				
ITEM	ITEM EXT.	QUANTITY	UNIT	DESCRIPTION
201	11000	1	LS	CLEARING AND GRUBBING
202	20010	1	EA	HEADWALL REMOVED
203	20000	13	CY	EMBANKMENT
301	56000	1	CY	3" ASPHALT CONCRETE BASE, PG64-22 (449)
304	20000	1	CY	6" AGGREGATE BASE
441	70000	1	CY	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449) PG 64-22
512	10050	3	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
602	20000	0.60	CY	CONCRETE MASONRY HALF-HEIGHT HEADWALLS
611	14100	20	LF	30" POLYPROPYLENE CORRUGATED PIPE, TYPE B CONDUIT, 707.62
614	11000	1	LS	MAINTAINING TRAFFIC
624	10000	1	LS	MOBILIZATION

NOTES

- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS
- NOT ALL UTILITIES ARE SHOWN IN THE PROFILE. SEE TRAIL CROSS SECTIONS FOR ALL UTILITIES IN THE AREA.
- CONCRETE COLLAR INCLUDED WITH ITEM 611 FOR PAYMENT.

LEGEND

- BORING LOCATION

EXISTING STRUCTURE

TYPE: 30" DIAM. POLYPROPYLENE CORRUGATED PIPE CULVERT

LENGTH: 42'-0"±

ROADWAY: 12'-0"±

LOADING: UNKNOWN

SKEW: 36°18'

ALIGNMENT: TANGENT

CULVERT FILE NUMBER: NONE

PROPOSED STRUCTURE

TYPE: 30" DIAM. POLYPROPYLENE CORRUGATED PIPE CULVERT  
TYPE D CONDUIT, 707.62 W/ 20'-0" ± EXTENSION

LENGTH: 62'-0"±

ROADWAY: 12'-0" WIDTH

LOADING: H-10

SKEW: 36°18'

ALIGNMENT: TANGENT

CULVERT FILE NUMBER: NONE

HORIZONTAL SCALE IN FEET  
0 2 4 6 8 10  
FEET

SITE PLAN  
CULVERT AT STA. 195+61.19 (SITE 2)

SFN

N/A

DESIGN AGENCY



RIBWAY ENGINEERING GROUP, INC.  
300 E. BROAD ST.  
SUITE 500  
COLUMBUS, OHIO 43215  
PH. NO. (614) 221-6009  
FAX NO. (614) 221-9089

DESIGNER/CHECKER

AP LI

REVIEWER

AE/JC 03/27/24

PROJECT ID

117016

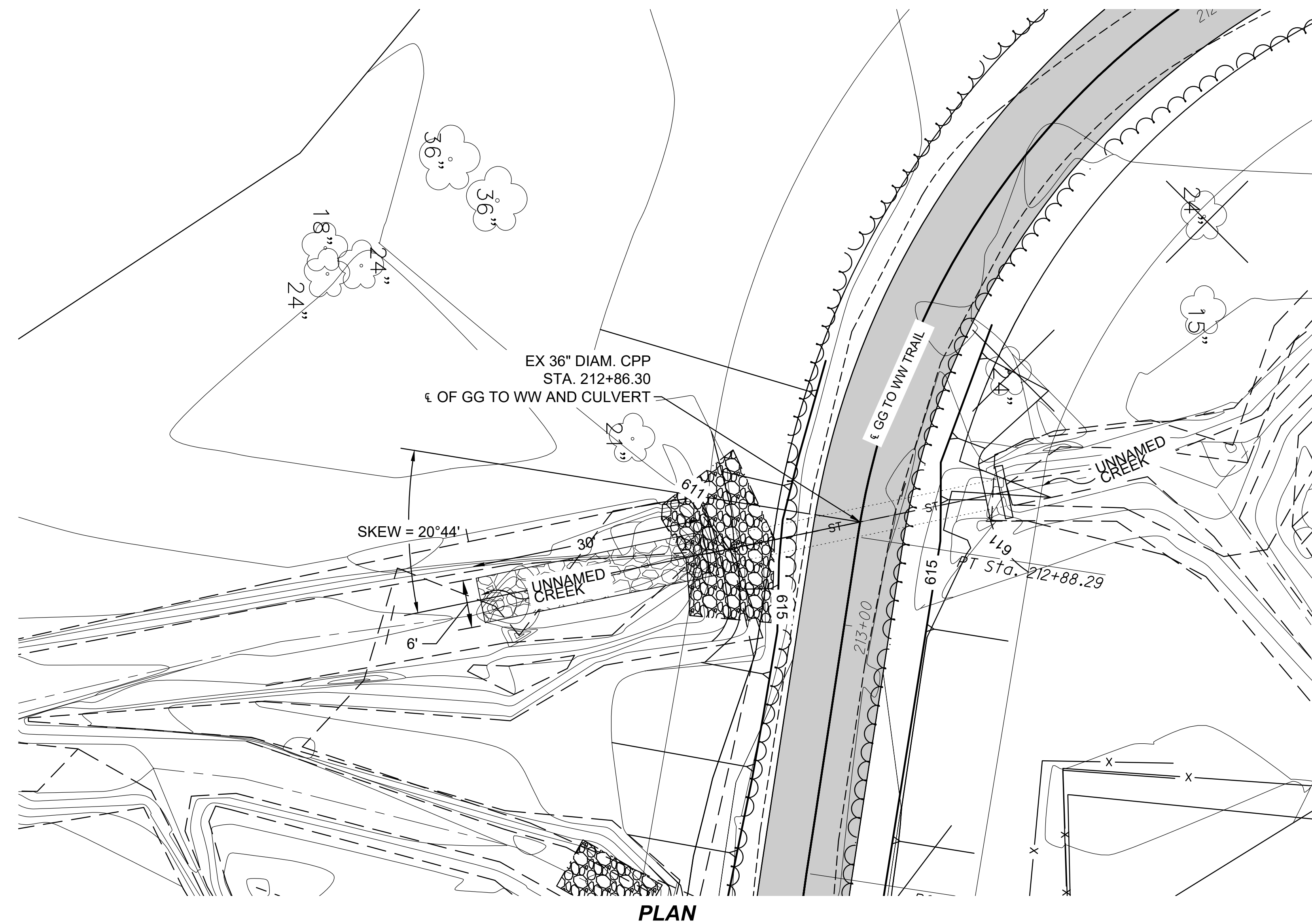
SUBSET TOTAL

1 1

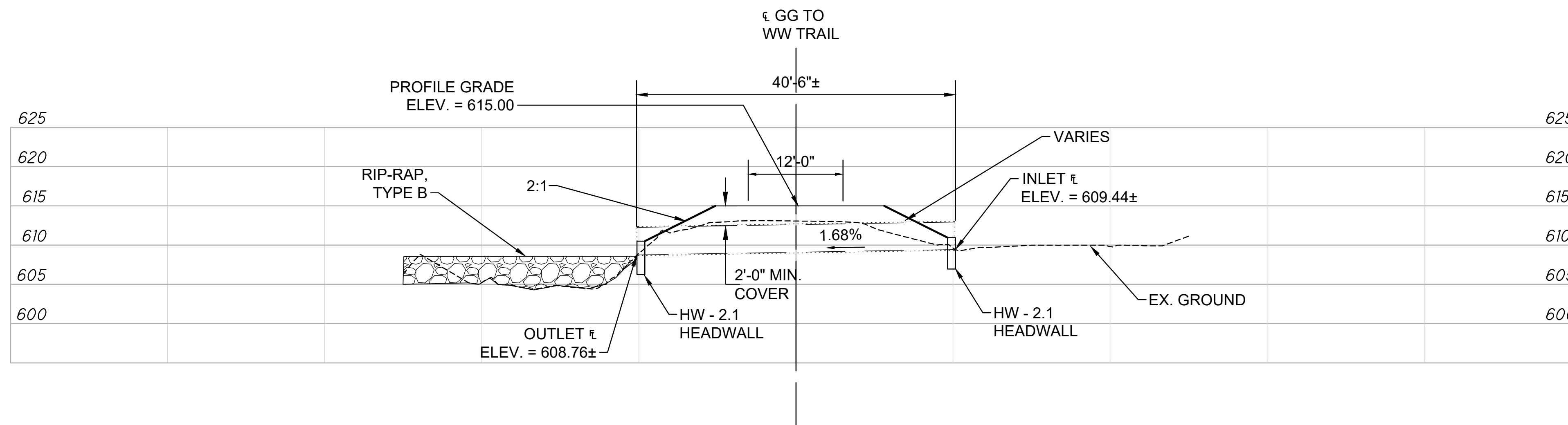
SHEET TOTAL

171 210





**PLAN**



**PROFILE ALONG CENTERLINE OF EX. 40'-6" 36" DIAM. POLYPROPYLENE CORRUGATED PIPE, 707.62 CULVERT**

ESTIMATED QUANTITIES				
ITEM	ITEM EXT.	QUANTITY	UNIT	DESCRIPTION
201	11000	1	LS	CLEARING AND GRUBBING
202	20010	2	EA	HEADWALL REMOVED
203	20000	13	CY	EMBANKMENT
301	56000	1	CY	3" ASPHALT CONCRETE BASE, PG 64-22 (449)
304	20000	2	CY	6" AGGREGATE BASE
441	70000	1	CY	1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449) PG 64-22
512	10050	7	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
601	32100	17	CY	ROCK CHANNEL PROTECTION, TYPE B W/ FILTER
602	20000	1.52	CY	CONCRETE MASONRY HALF-HEIGHT HEADWALLS
614	11000	1	LS	MAINTAINING TRAFFIC
624	10000	1	LS	MOBILIZATION

**NOTES**

- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS
- NOT ALL UTILITIES ARE SHOWN IN THE PROFILE. SEE TRAIL CROSS SECTIONS FOR ALL UTILITIES IN THE AREA.

**LEGEND**

BORING LOCATION

**EXISTING STRUCTURE**

TYPE: 36" DIAM. POLYPROPYLENE CORRUGATED PIPE CULVERT

LENGTH: 40'-6"±

ROADWAY: 12'-0" WIDTH

LOADING: UNKNOWN

SKEW: 20°44'±

ALIGNMENT: CURVATURE

CULVERT FILE NUMBER: NONE

HORIZONTAL SCALE IN FEET  
 0 2 4 6 8 10  
 FEET

SITE PLAN  
 CULVERT AT STA. 212+66.30 (SITE 3)

SFN

N/A

DESIGN AGENCY



RIWAY ENGINEERING GROUP, INC.  
 300 E. BROAD ST.  
 SUITE 500  
 COLUMBUS, OHIO 43215  
 PH. NO. (614) 221-6009  
 FAX NO. (614) 221-9089

DESIGNER CHECKER

AP LI

REVIEWER

AE/JC 03/27/24

PROJECT ID

117016

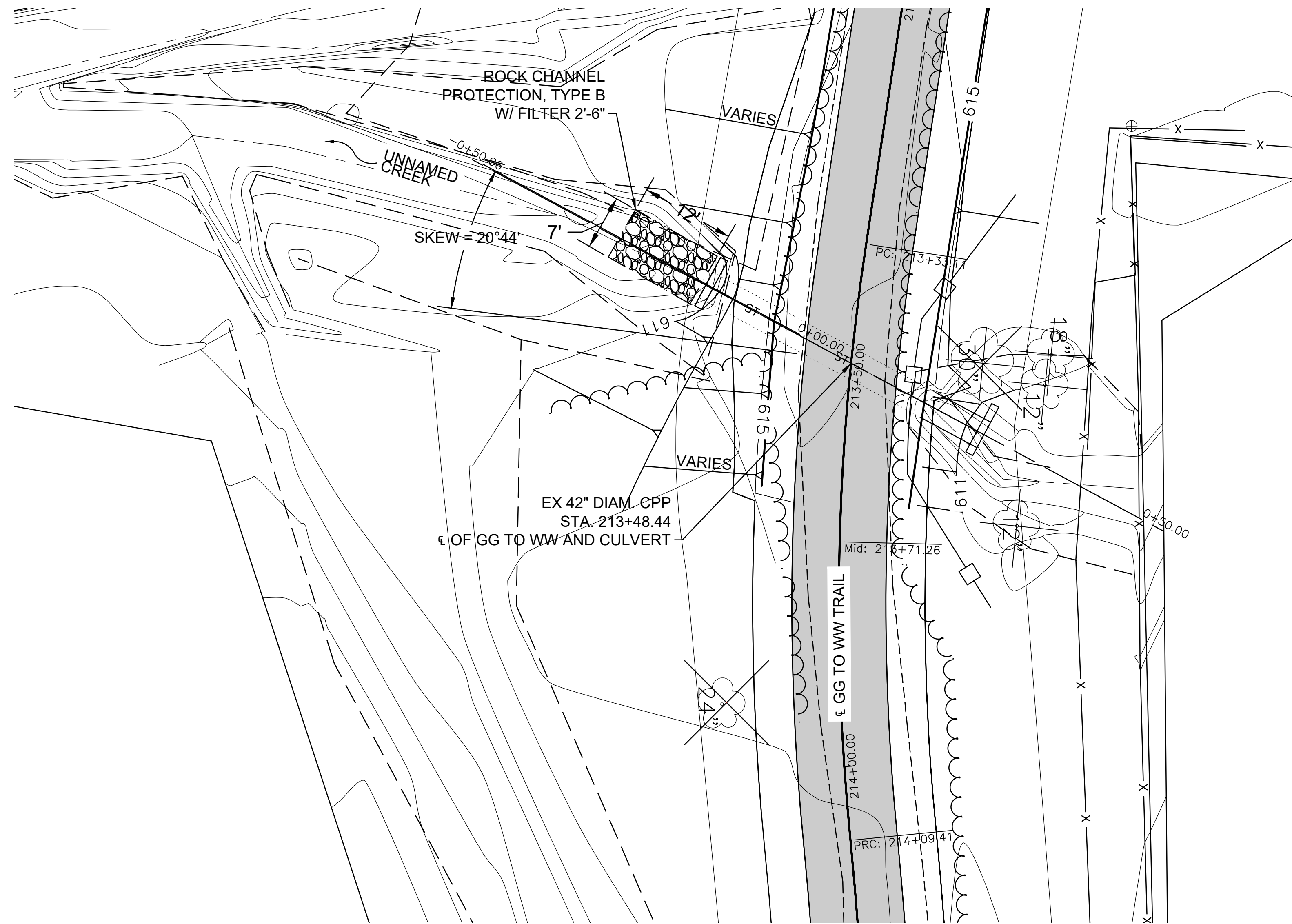
SUBSET TOTAL

1 1

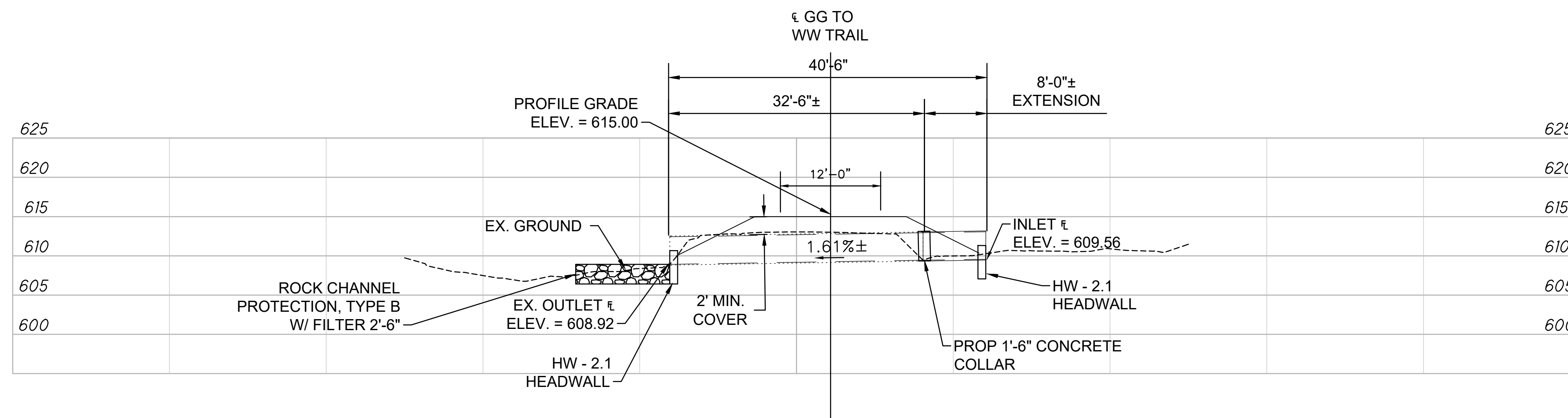
SHEET TOTAL

172 210





PLAN



PROFILE ALONG CENTERLINE OF PROP 40'-6" 42" DIAM. POLYPROPYLENE CORRUGATED PIPE, 707.62 CULVERT EXTENSION

ESTIMATED QUANTITIES				
ITEM	ITEM EXT.	QUANTITY	UNIT	DESCRIPTION
201	11000	1	LS	CLEARING AND GRUBBING
202	20010	2	EA	HEADWALL REMOVED
203	20000	10	CY	EMBANKMENT
301	56000	1	CY	3" ASPHALT CONCRETE BASE, PG 64-22 (449)
304	20000	2	CY	6" AGGREGATE BASE
441	70000	1	CY	1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449) PG 64-22
512	10050	8	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
601	32100	8	CY	ROCK CHANNEL PROTECTION, TYPE B W/ FILTER
602	20000	1.84	CY	CONCRETE MASONRY HALF-HEIGHT HEADWALLS
611	19900	8	LF	42" POLYPROPYLENE CORRUGATED PIPE, TYPE B CONDUIT, 707.62
614	11000	1	LS	MAINTAINING TRAFFIC
624	10000	1	LS	MOBILIZATION

NOTES

- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS
- NOT ALL UTILITIES ARE SHOWN IN THE PROFILE. SEE TRAIL CROSS SECTIONS FOR ALL UTILITIES IN THE AREA.
- CONCRETE COLLAR INCLUDED WITH THE UNIT PRICE OF ITEM 611

LEGEND

BORING LOCATION

EXISTING STRUCTURE

TYPE: 42" DIAM. POLYPROPYLENE CORRUGATED PIPE CULVERT

LENGTH: 32'-6"±

ROADWAY: 12'-0"±

LOADING: UNKNOWN

SKEW: 20°44'

ALIGNMENT: CURVATURE

CULVERT FILE NUMBER: NONE

PROPOSED STRUCTURE

TYPE: 42" DIAM. POLYPROPYLENE CORRUGATED PIPE CULVERT  
TYPE D CONDUIT, 707.62 W/ 8'-0"± EXTENSION

LENGTH: 40'-6"

ROADWAY: 12'-0" WIDTH

LOADING: H-10

SKEW: 20°44'

ALIGNMENT: CURVATURE

CULVERT FILE NUMBER: NONE

HORIZONTAL SCALE IN FEET



SITE PLAN  
CULVERT AT STA. 213+48.44 (SITE 4)

SFN

N/A

DESIGN AGENCY



RIBWAY ENGINEERING GROUP, INC.  
300 E. BROAD ST.  
SUITE 500  
COLUMBUS, OHIO 43215  
PH. NO. (614) 221-6009  
FAX NO. (614) 221-9089

DESIGNER/CHECKER

AP LI

REVIEWER

AE/JC 03/27/24

PROJECT ID

117016

SUBSET TOTAL

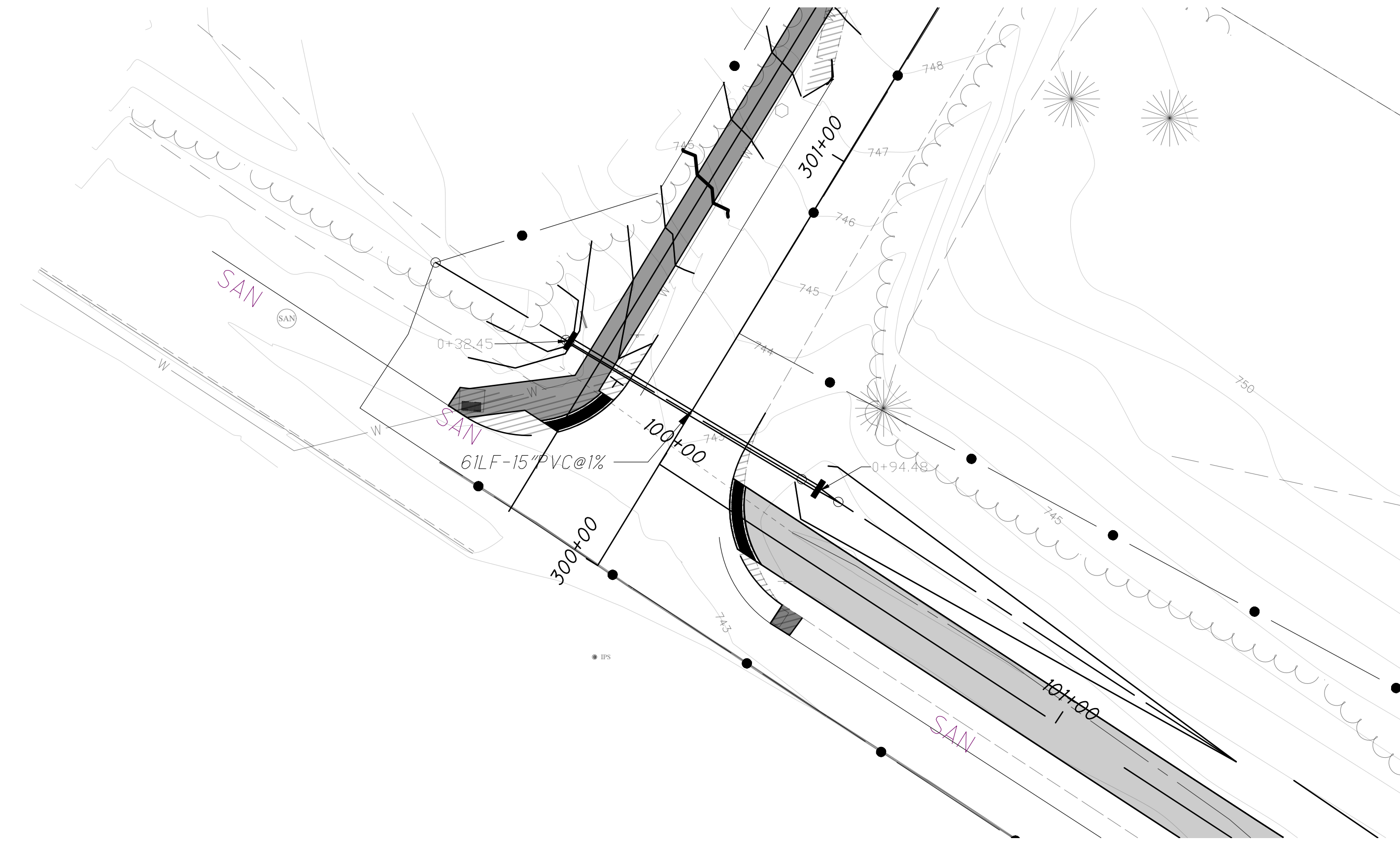
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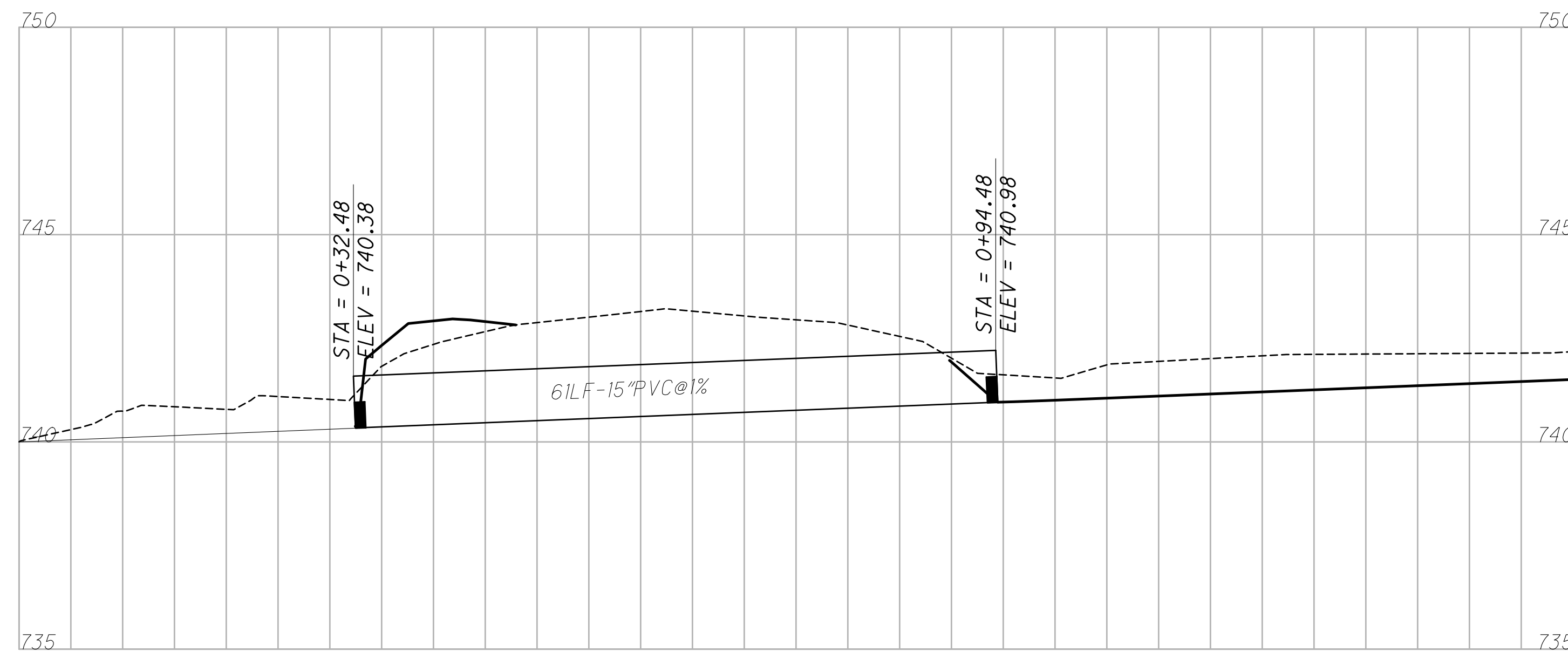
173 210



ESTIMATED QUANTITIES					
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
202	20010	2	EA	HEADWALL REMOVED	
202	35100	61	FT	PIPE REMOVED, 24" AND UNDER	
602	20000	0.54	CY	CONCRETE MASONRY HALF HEIGHT HEADWALLS	
611	6400	62	FT	15" CONDUIT, TYPE D	



CARLSBAD CULVERT REPLACEMENT PLAN VIEW  
1"=20'



CARLSBAD CULVERT REPLACEMENT PROFILE VIEW  
1"=10'

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

TFZ

REVIEWER

SCR 3/29/2024

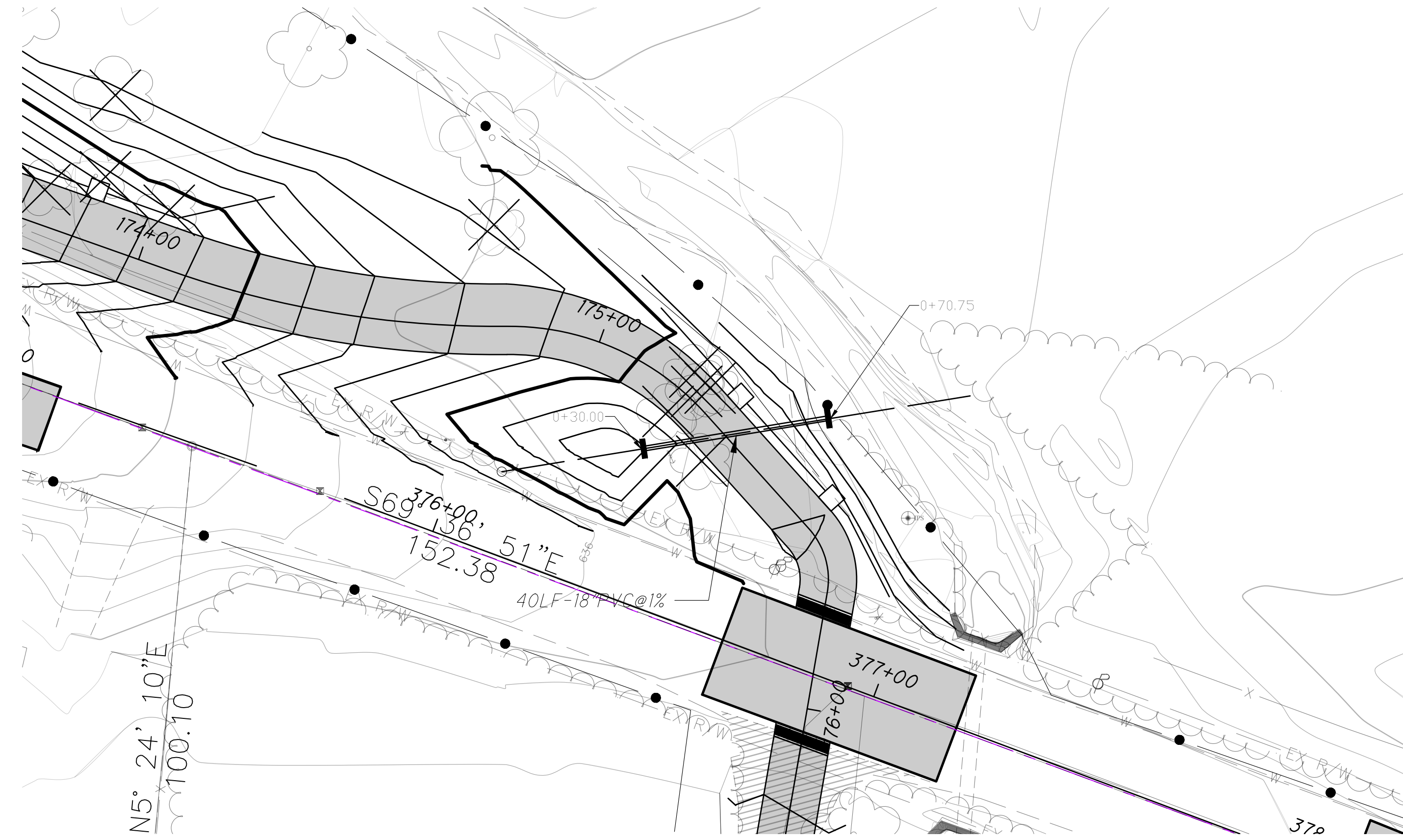
PROJECT ID

117016

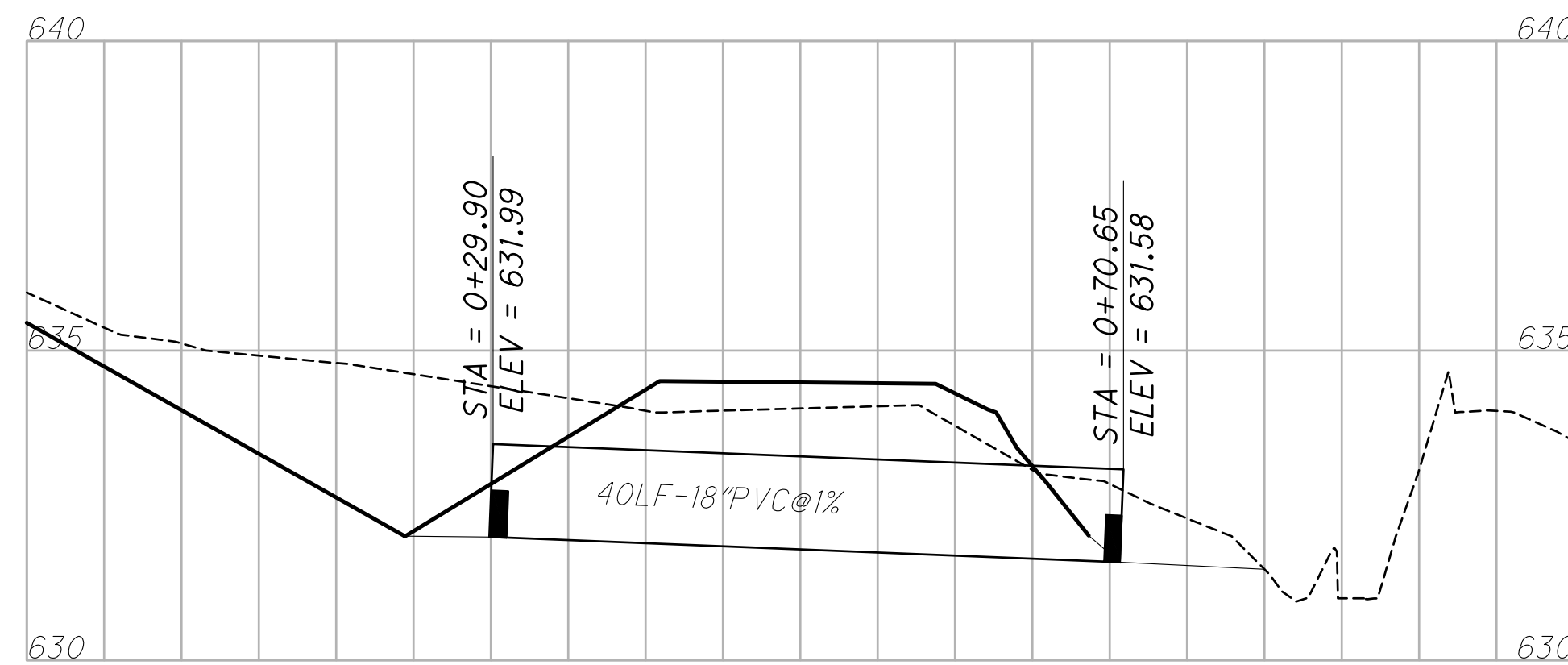
SHEET TOTAL

P.167 210

ESTIMATED QUANTITIES					
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
602	20000	0.66	CY	CONCRETE MASONRY HALF HEIGHT HEADWALLS	
611	7900	40	FT	18" CONDUIT, TYPE D	



SHEFFIELD CULVERT PLAN VIEW  
1"=20'



SHEFFIELD CULVERT PROFILE VIEW  
1"=10'

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

TFZ

REVIEWER

SCR 3/29/2024

PROJECT ID

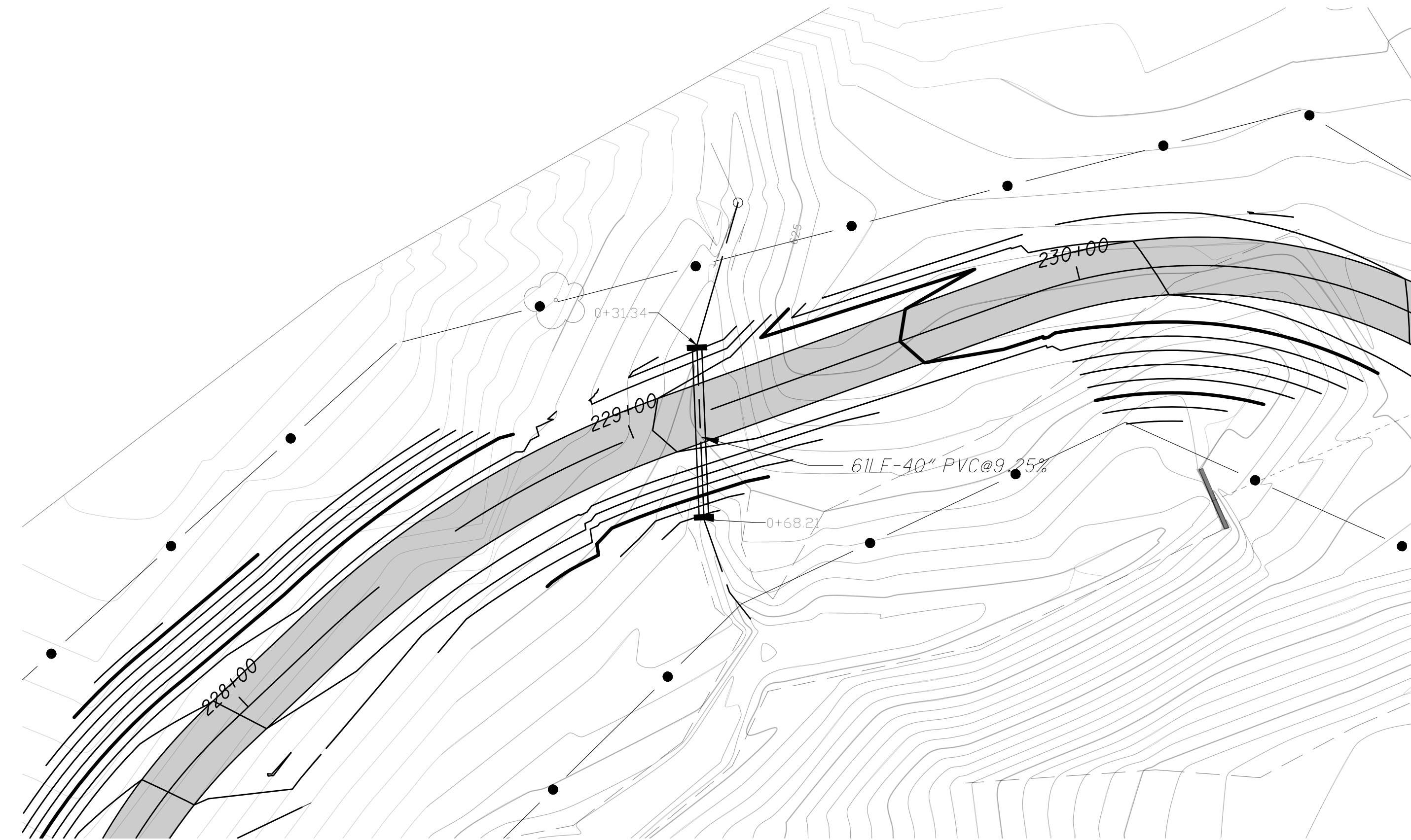
117016

SHEET TOTAL

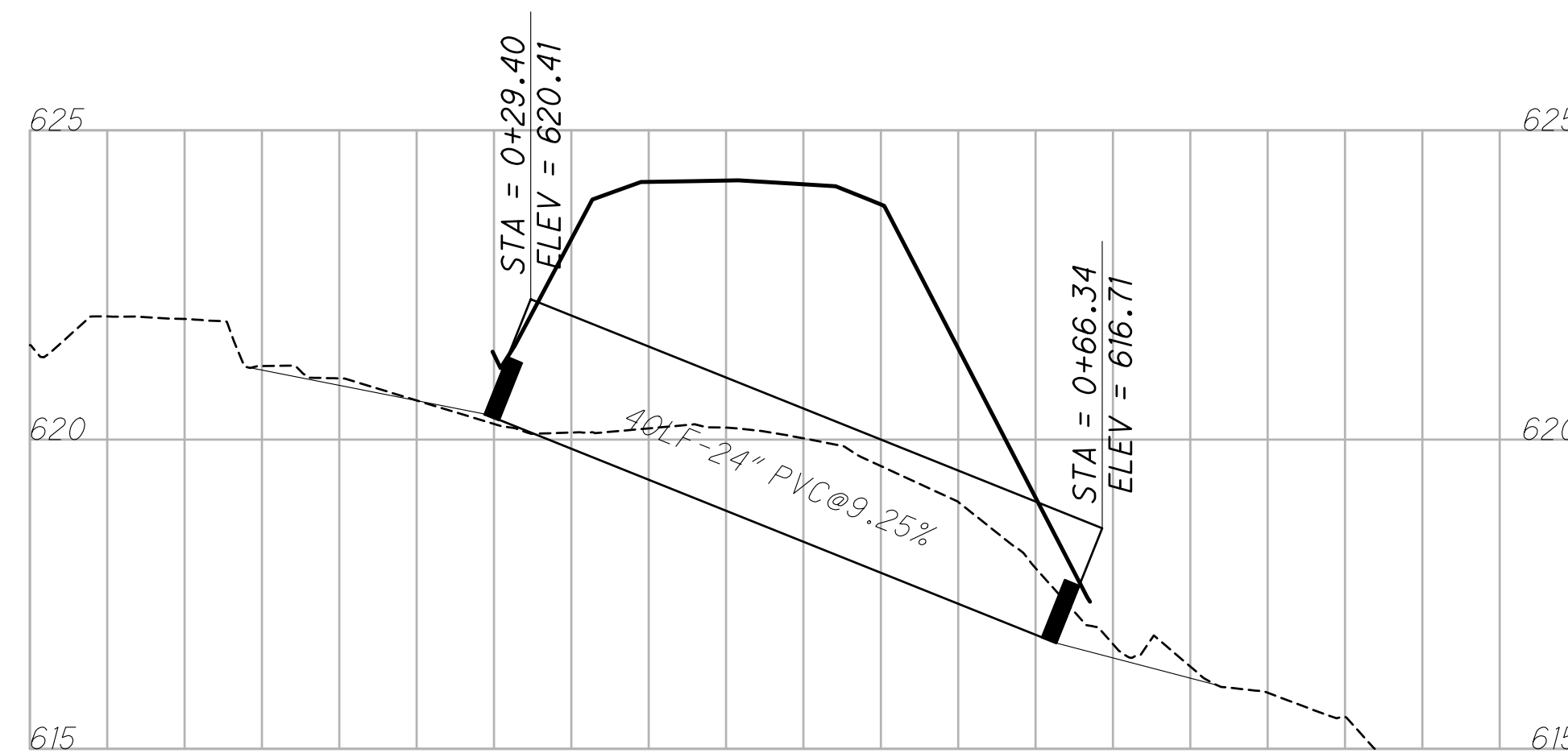
P.168 210



ESTIMATED QUANTITIES					
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
602	20000	0.92	CY	CONCRETE MASONRY HALF HEIGHT HEADWALLS	
611	7900	40	FT	24" CONDUIT, TYPE D	



SWITCH BACK CULVERT PLAN VIEW  
1"=20'



SWITCH BACK CULVERT PROFILE VIEW  
1"=10'

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

TFZ

REVIEWER

SCR 3/29/2024

PROJECT ID

117016

SHEET TOTAL

P.169 210



ITEM 838 - GABIONS, AS PER PLAN

THIS ITEM SHALL CONSIST OF THE INSTALLATION OF A GABION RETAINING WALL INCLUDING AGGREGATE BASE, EXCAVATION, AND EMBANKMENT

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 838 GABIONS, AS PER PLAN

ITEM 870 - PREFABRICATED MODULAR RETAINING WALL, AS PER PLAN

THIS ITEM SHALL CONSIST OF THE INSTALLATION OF A MODULAR RETAINING WALL INCLUDING AGGREGATE BASE, EXCAVATION, AND EMBANKMENT

PRECAST BLOCK EXPOSED TO THE ELEMENTS SHALL BE SEALED WITH EPOXY-URETHANE COATING PER ITEM 512

CONTRACTOR TO PROVIDE REDI-ROCK GRAVITY RETAINING WALL SYSTEM, OR APPROVED EQUAL

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 870 PREFABRICATED MODULAR RETAINING WALL, AS PER PLAN

ITEM 602 - BLOCK MASONRY, AS PER PLAN

THIS ITEM SHALL INCLUDE PROVIDING AND INSTALLING BLOCK MASONRY FOR SEAT WALLS. ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO PERFORM THIS WORK, INCLUDING HORIZONTAL JOINT REINFORCING, MORTAR SETTING BED, AND GROUT CORE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 602 - BLOCK MASONRY, AS PER PLAN.

ITEM 602 - MASONRY, MISC.: CAST STONE FACING

THIS ITEM SHALL INCLUDE PROVIDING AND INSTALLING CAST STONE FACING FOR SEAT WALLS. THE CAST STONE FACING SHALL BE BY STONE CRAFT INDUSTRIES HAMILTON HERITAGE, OR APPROVED EQUAL. THE CAST STONE FACING SHALL BE INSTALLED USING A MORTAR SETTING BED. ALL MATERIALS, LABOR AND EQUIPMENT TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 602 - MASONRY, MISC.: CAST STONE FACING.

ITEM 602 - MASONRY, MISC.: CAST STONE CAP

THIS ITEM SHALL INCLUDE PROVIDING AND INSTALLING CAST STONE CAPS FOR SEAT WALLS. THE CAST STONE CAP SHALL BE BY #C0100 BY ROCKCAST A DIVISION OF READING ROCK, OR APPROVED EQUAL; COLOR: BUFF. ALL MATERIALS, LABOR AND EQUIPMENT TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 602 - MASONRY, MISC.: CAST STONE CAP.

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

TFZ

REVIEWER

SCR 3/29/2024

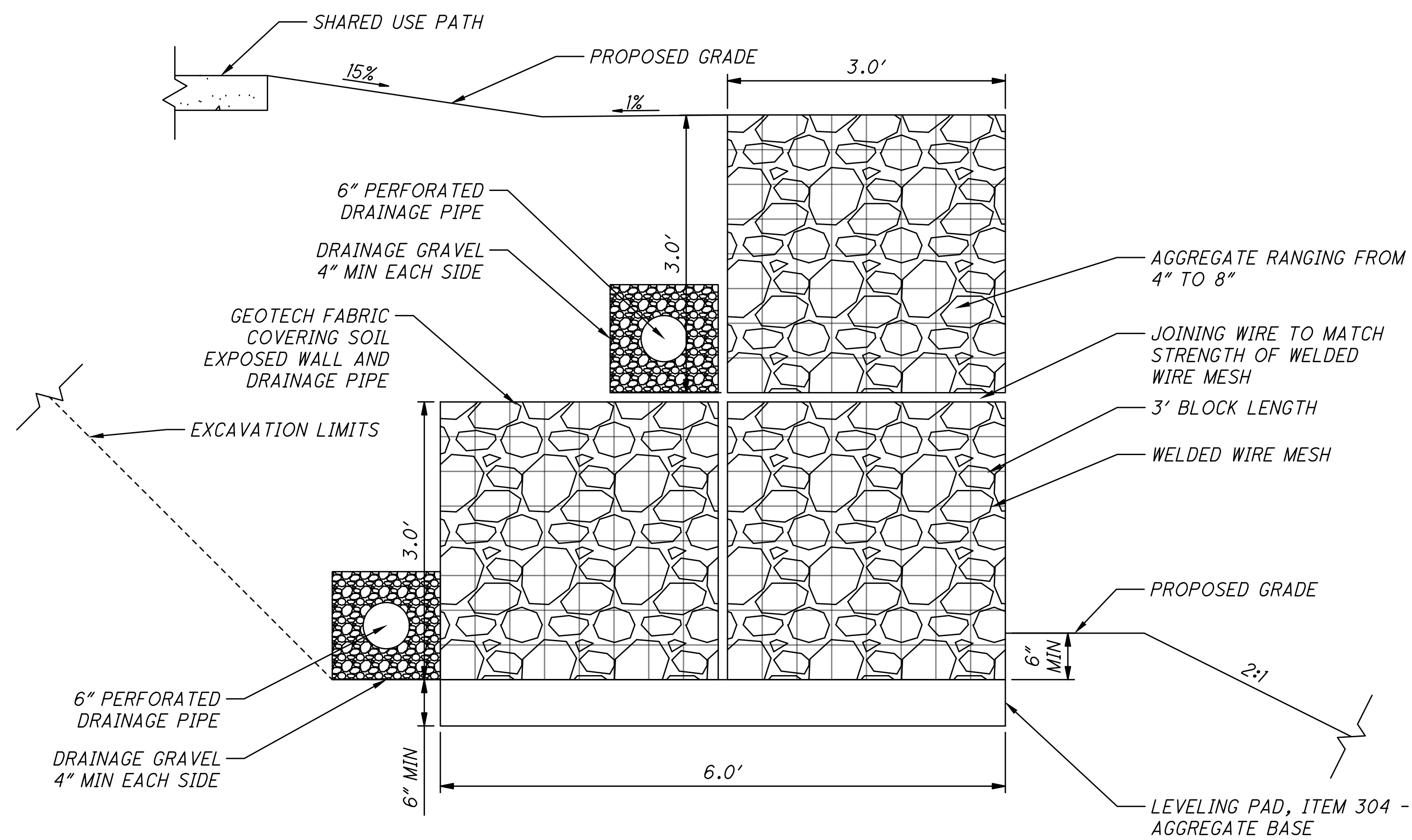
PROJECT ID

117016

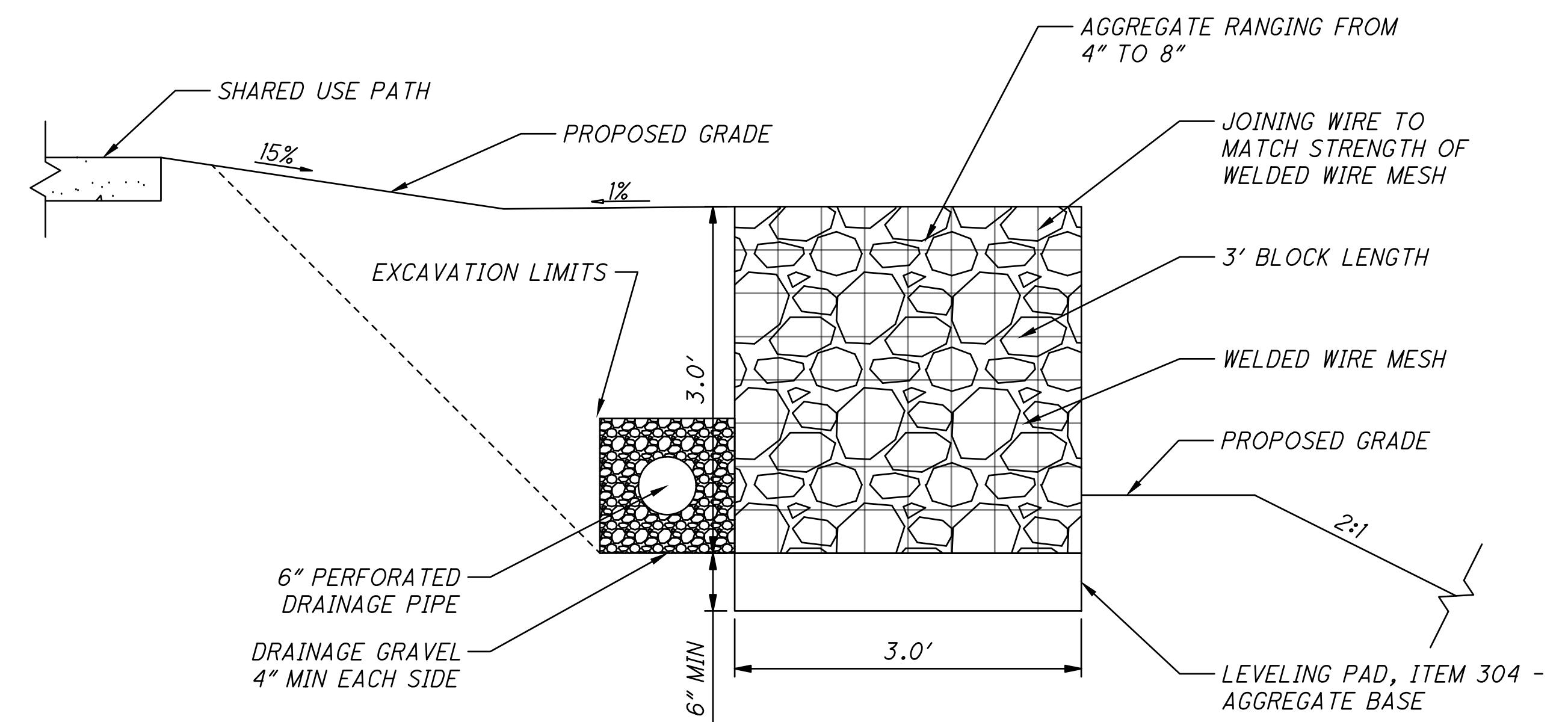
SHEET TOTAL

P.174 | 210

ESTIMATED QUANTITIES					
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
304	20000	111	CY	AGGREGATE BASE	
611	05200	50	FT	12" CONDUIT, TYPE F	
611	98450	5	EA	CATCH BASIN NO. 2-2A	
838	20701	986	CY	GABIONS, AS PER PLAN	174
870	12000	1020	FT	6" DRAINAGE PIPE, PERFORATED	
870	12100	120	FT	6" DRAINAGE PIPE, NON-PERFORATED	

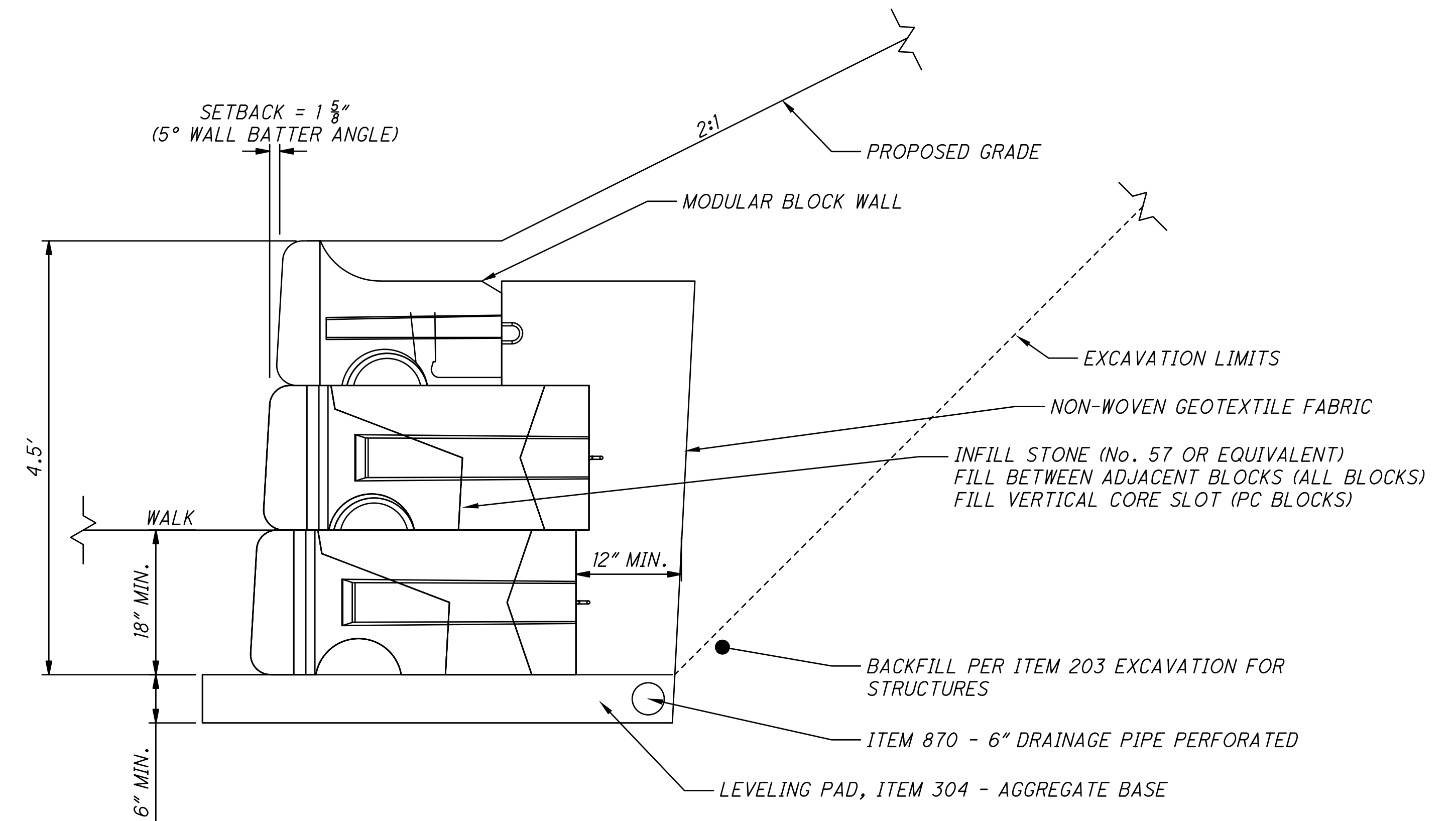
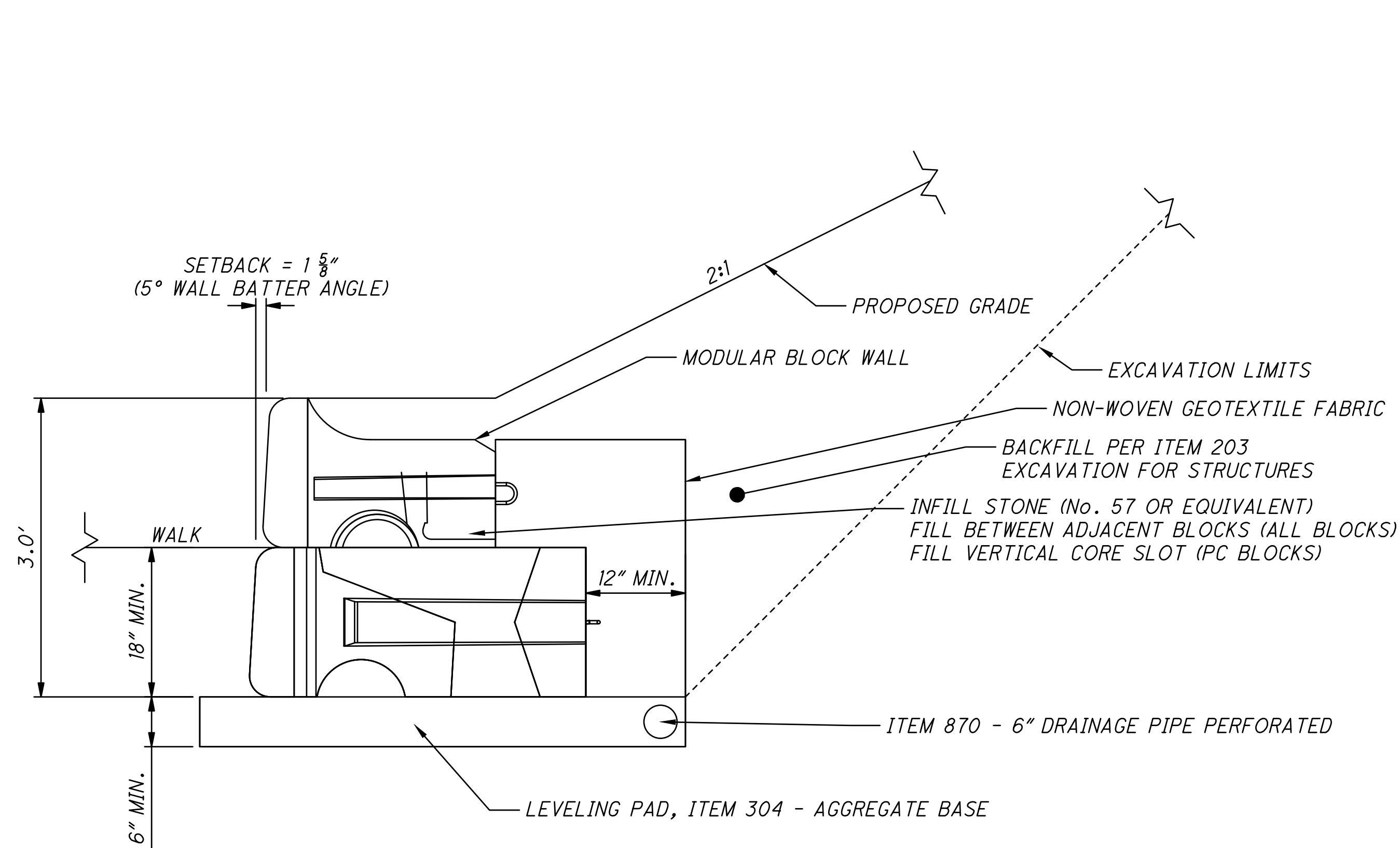


6.0' GABION RETAINING WALL TYPICAL SECTION  
N.T.S.

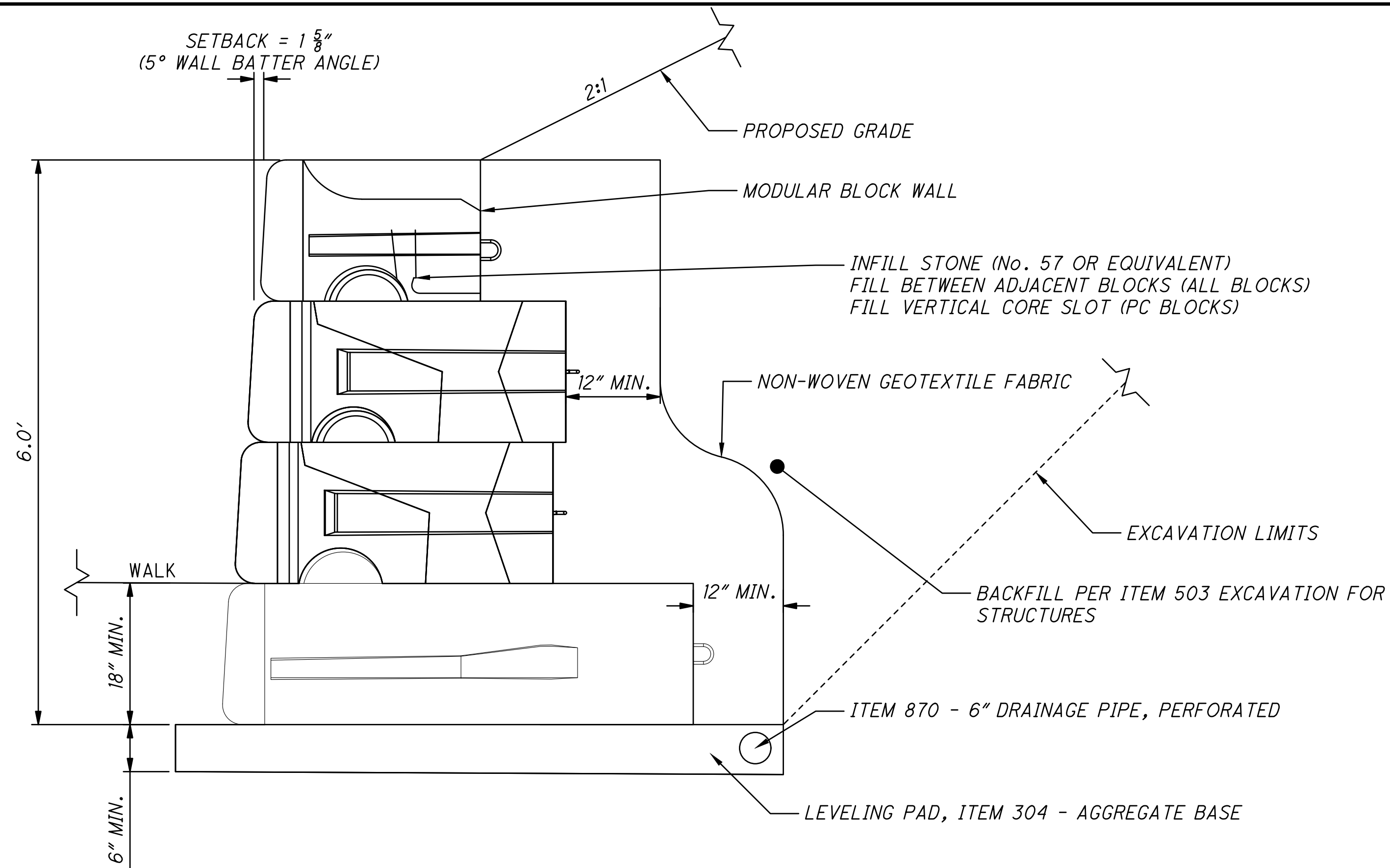


3.0' GABION RETAINING WALL TYPICAL SECTION  
N.T.S.

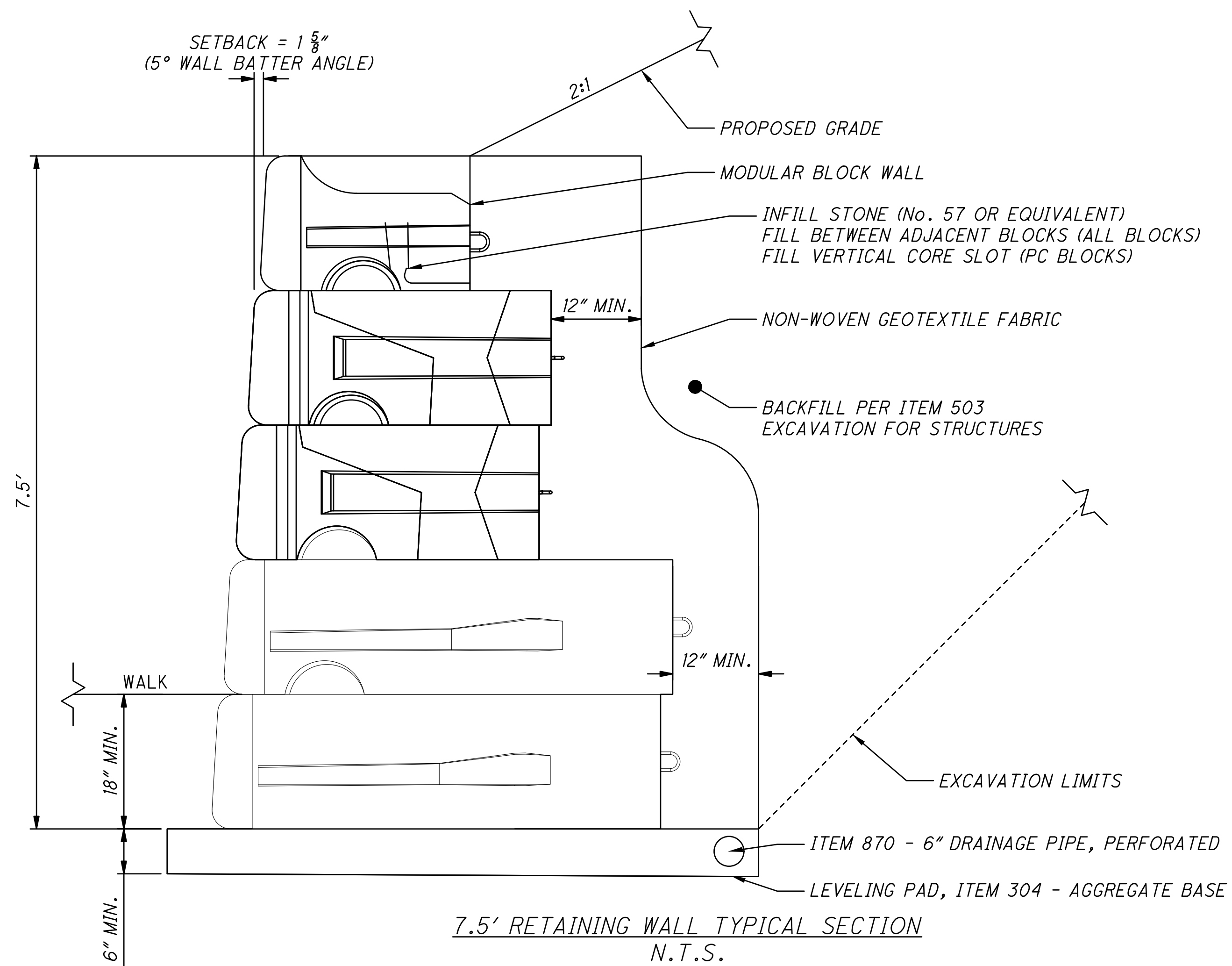
ESTIMATED QUANTITIES					
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
511	46612	1	CY	CLASS QC1 CONCRETE WITH QC/QA, HEADWALL	
512	10100	1001.59	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
611	05200	40	FT	12" CONDUIT, TYPE F	
611	98450	1	EA	CATCH BASIN NO. 2-2A	
870	10001	9014.31	SF	PREFABRICATED MODULAR RETAINING WALL, AS PER PLAN	174
870	12000	1839.00	FT	6" DRAINAGE PIPE, PERFORATED	
870	12100	864.00	FT	6" DRAINAGE PIPE, NON-PERFORATED	
870	14000	10	DAYS	ON-SITE ASSISTANCE	



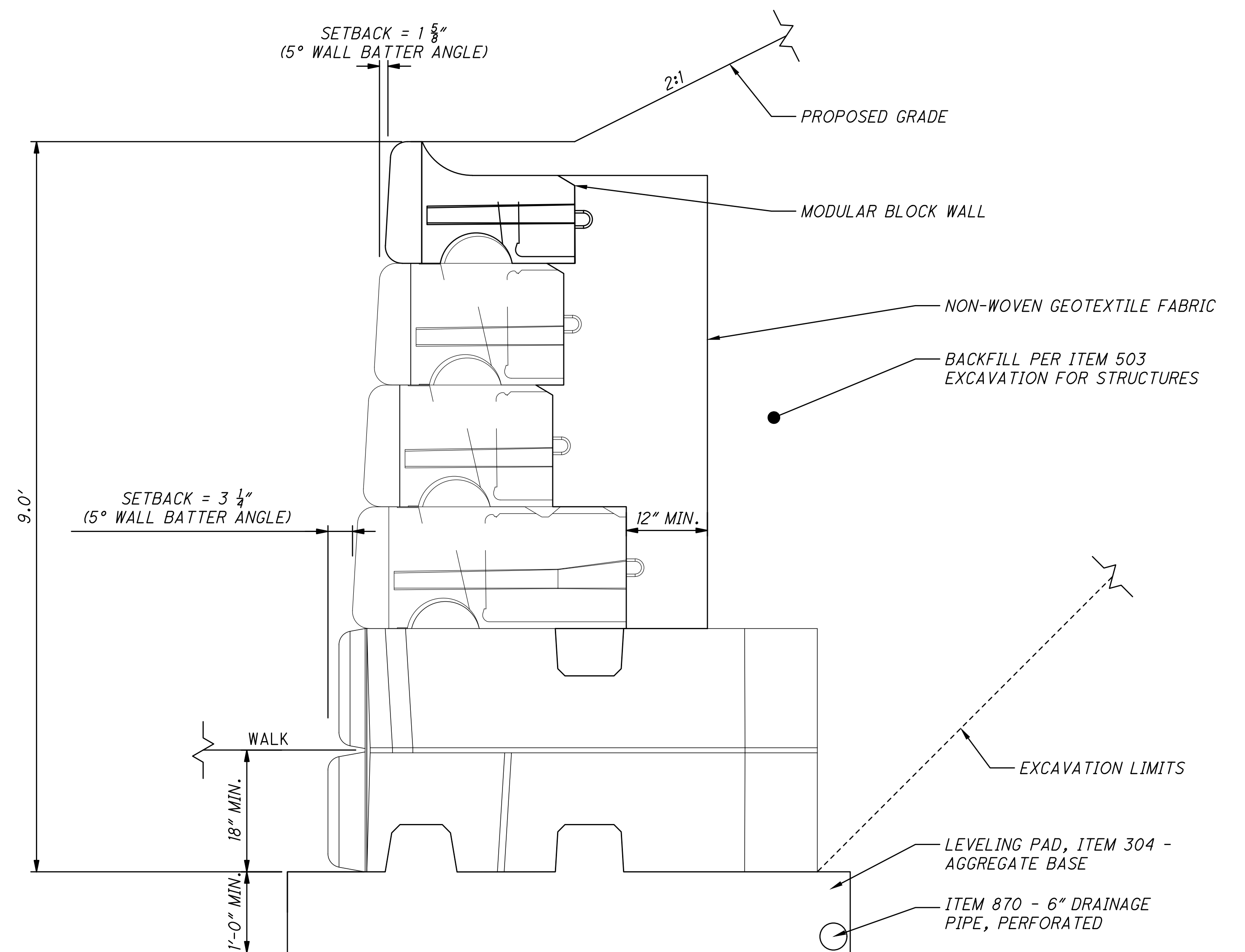




6.0' RETAINING WALL TYPICAL SECTION  
N.T.S.



7.5' RETAINING WALL TYPICAL SECTION  
N.T.S.



9.0' RETAINING WALL TYPICAL SECTION  
N.T.S.

DESIGN AGENCY

**KZFJ-SIG**  
Designing Better Futures

700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER

TFZ

REVIEWER

SCR 3/29/2024

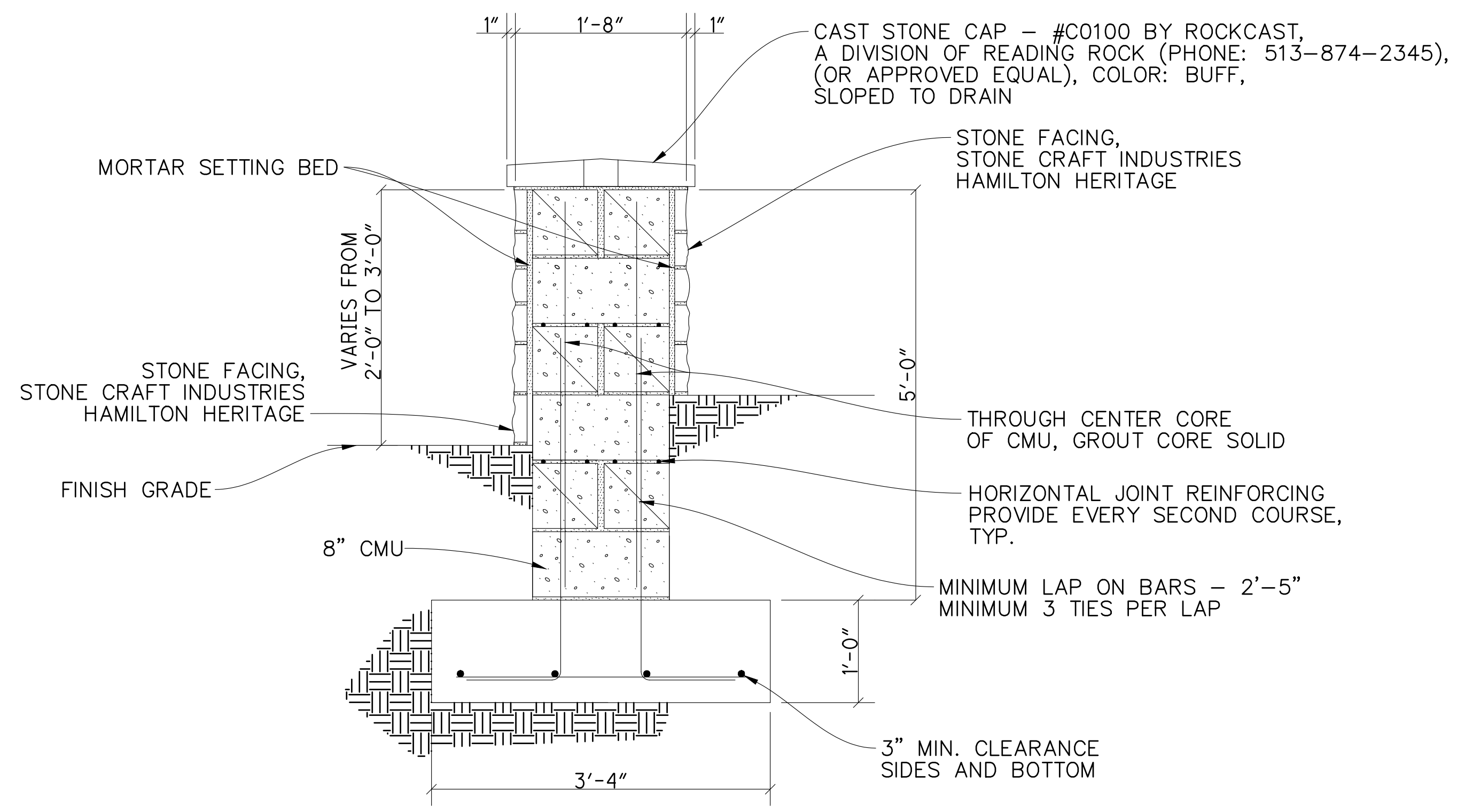
PROJECT ID

117016

SHEET TOTAL

P.177 210

ESTIMATED QUANTITIES					
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
203	20000	19	CY	EMBANKMENT	
503	21100	43	CY	UNCLASSIFIED EXCAVATION	
511	46510	12	CY	CLASS QC1 CONCRETE, FOOTING	
602	15001	25	CY	BLOCK MASONRY, AS PER PLAN	
602	97000	402	SF	MASONRY, MISC.: CAST STONE FACING	
602	98100	101	FT	MASONRY, MISC.: CAST STONE CAP	



SEAT WALL TYPICAL SECTION  
N.T.S.

DESIGN AGENCY



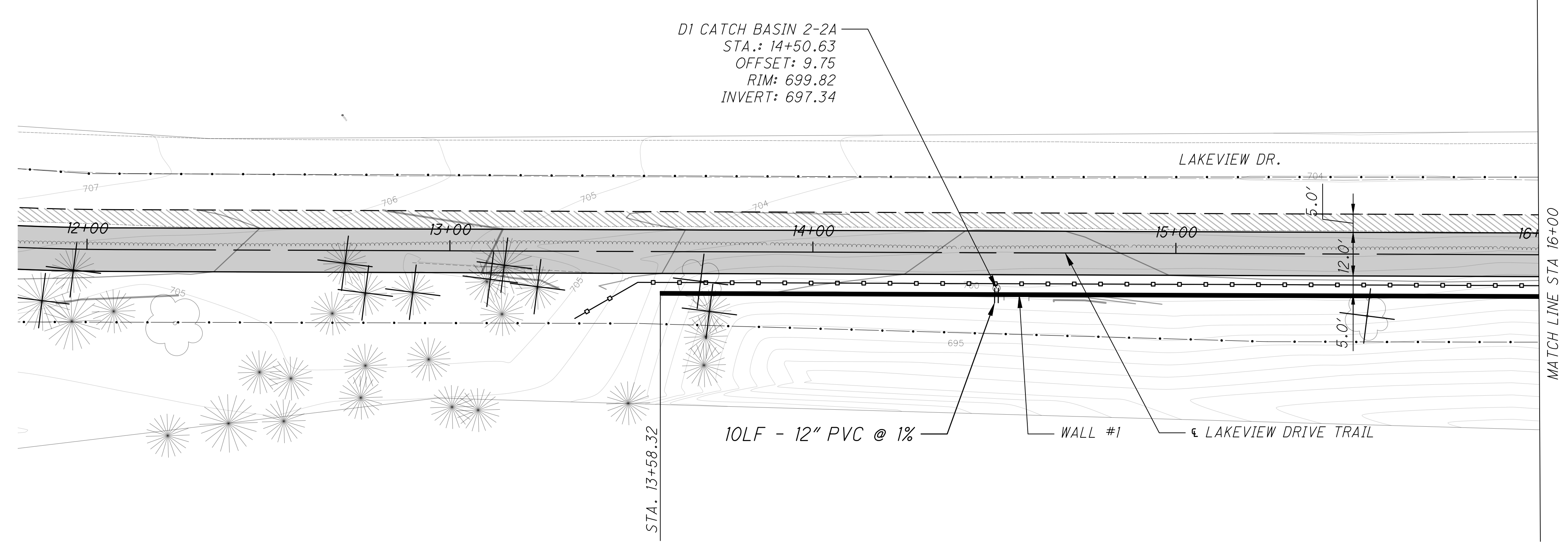
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
TFZ

REVIEWER  
SCR 3/29/2024

PROJECT ID  
117016

SHEET	TOTAL
P.178	210



DI CATCH BASIN 2-2A  
 STA.: 14+50.63  
 OFFSET: 9.75  
 RIM: 699.82  
 INVERT: 697.34

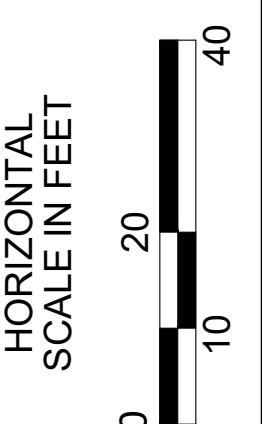
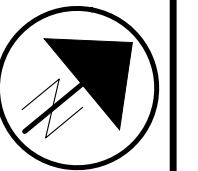
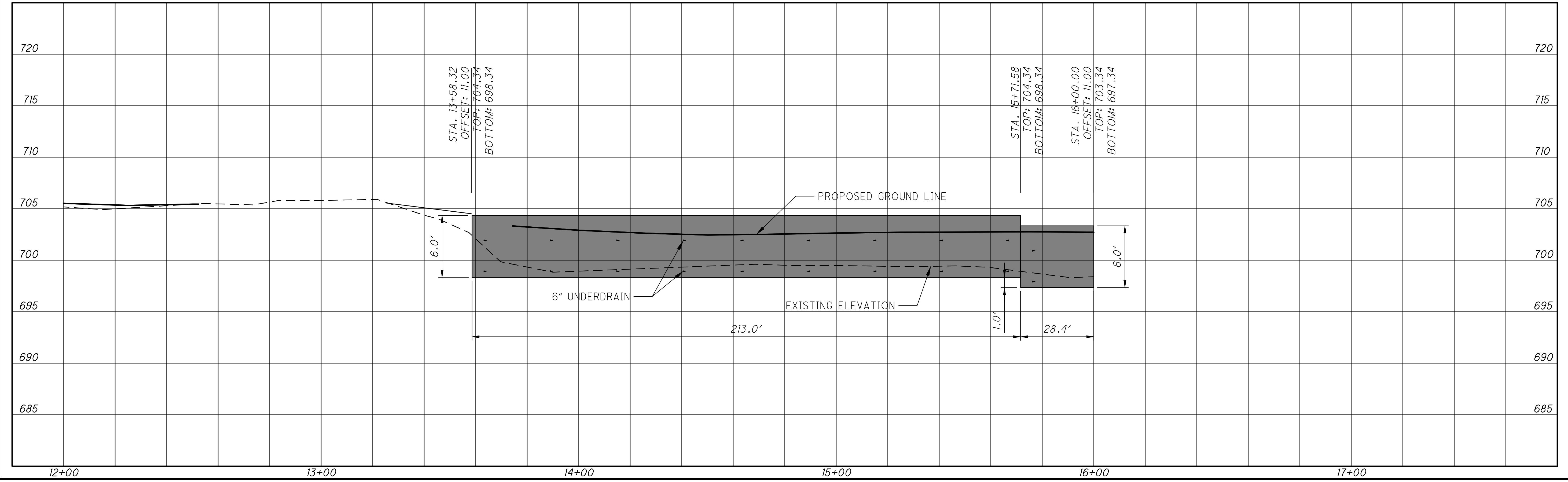
**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- FENCE MISC.: RAILING
- 6" UNDERDRAIN
- RETAINING WALL

NOTE;  
 \* PROFILE OFFSET 11' FROM CL OF TRAIL



**PLAN AND PROFILE - WALL #1**  
 STA. 13+58.32 TO STA. 16+00.00

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

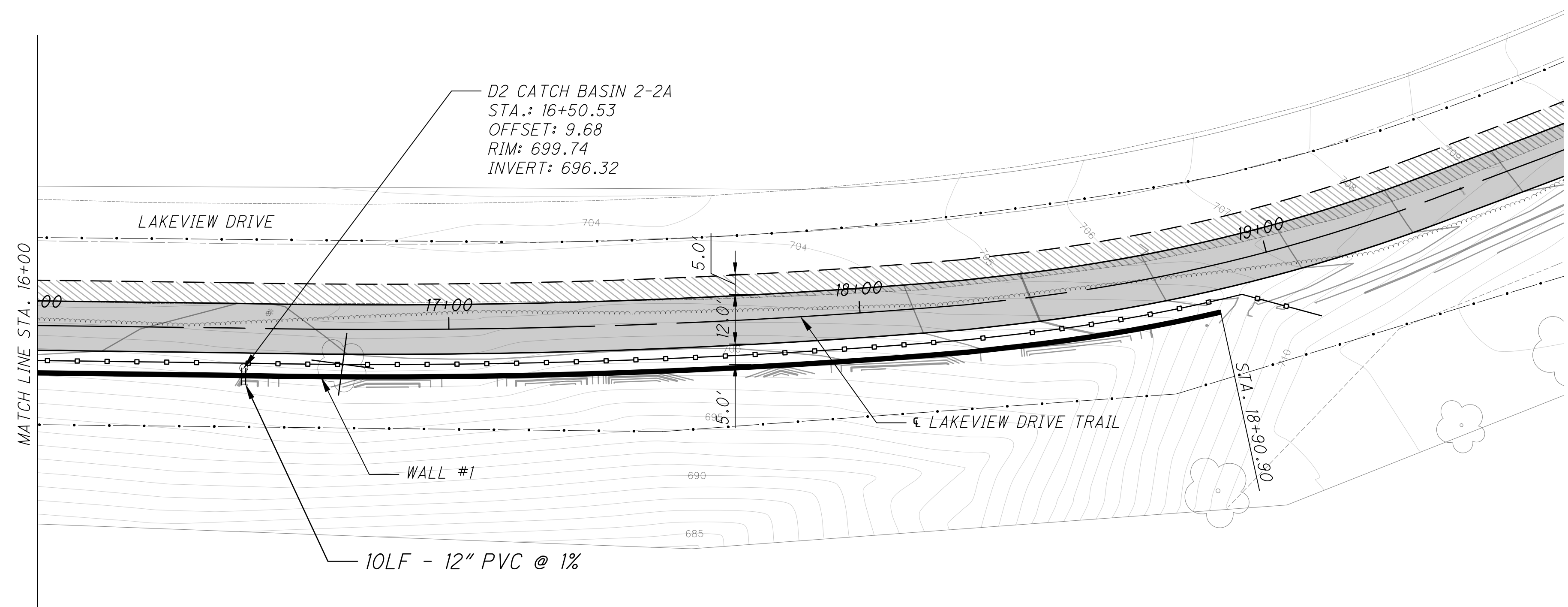
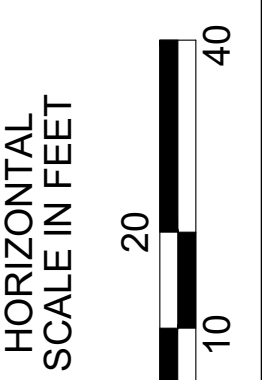
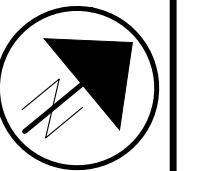
DESIGNER  
 TFZ

REVIEWER  
 SCR 3/29/2024

PROJECT ID  
 117016

SHEET TOTAL  
 P.179 210





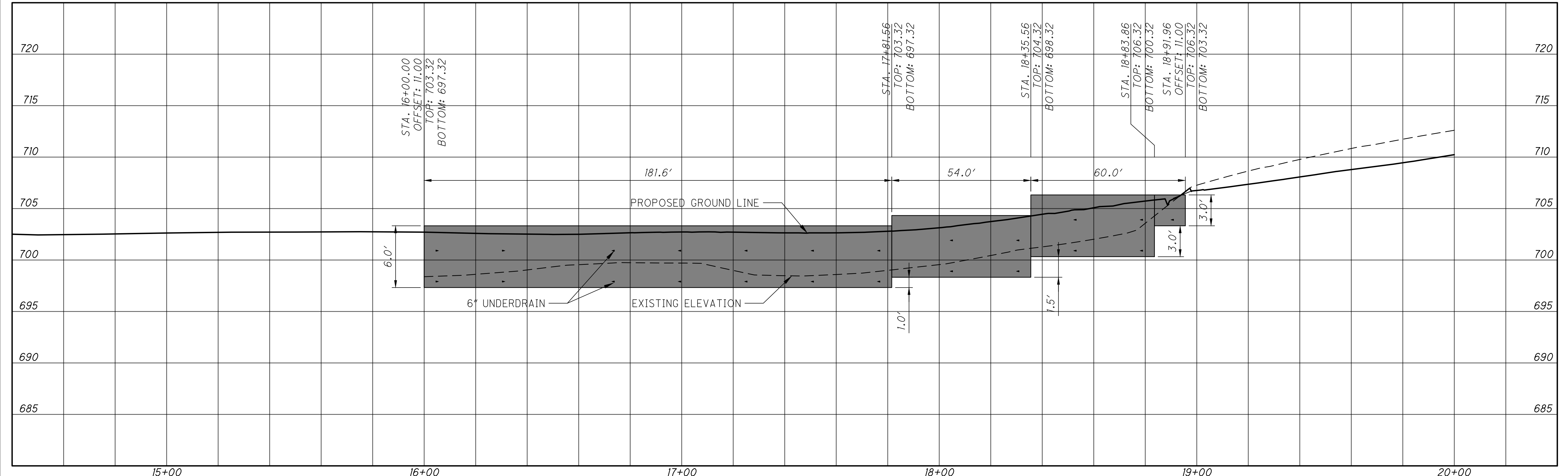
**UTILITY LINETYPE LEGEND**

- E — UNDERGROUND ELECTRIC
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- S — STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- FENCE MISC.: RAILING
- RETAINING WALL

NOTE;  
\* PROFILE OFFSET 11' FROM CL OF TRAIL



**PLAN AND PROFILE - WALL #1**  
STA. 16+00.00 TO STA. 18+90.90

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
TFZ

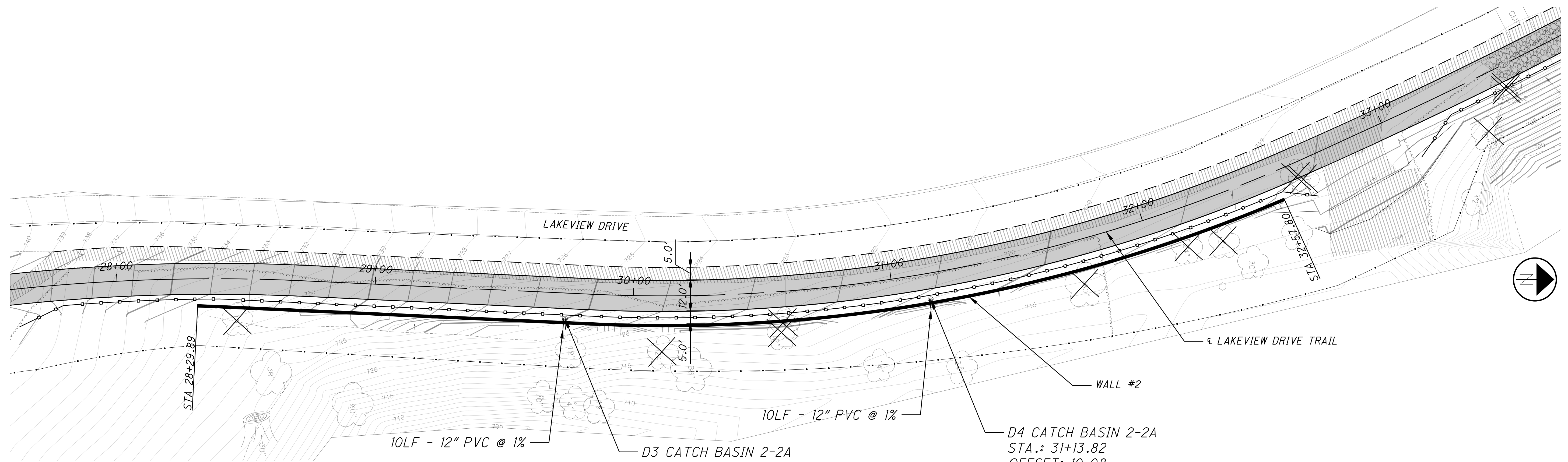
REVIEWER  
SCR 3/29/2024

PROJECT ID  
117016

SHEET TOTAL  
P.180 210

HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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UTILITY LINETYPE LEGEND

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
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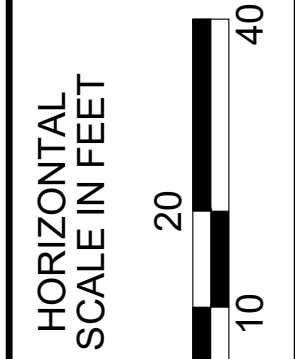
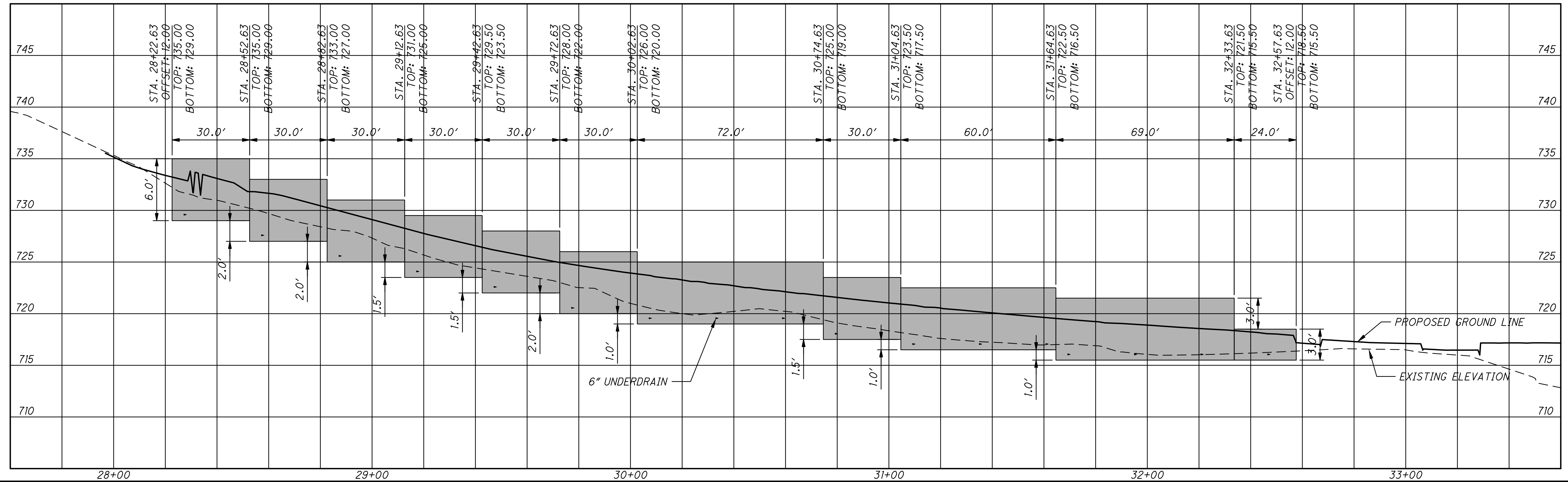
LEGEND

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- FENCE MISC.: RAILING
- 6\"/>

D3 CATCH BASIN 2-2A  
 STA.: 29+73.94  
 OFFSET: 10.00  
 RIM: 723.26  
 INVERT: 718.97

D4 CATCH BASIN 2-2A  
 STA.: 31+13.82  
 OFFSET: 10.08  
 RIM: 718.01  
 INVERT: 715.47

NOTE:  
 \* PROFILE OFFSET 11' FROM CL OF TRAIL



PLAN AND PROFILE - WALL #2  
 STA. 28+29.89 TO STA. 32+57.80

DESIGN AGENCY  
**KZFJ-SIGN**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

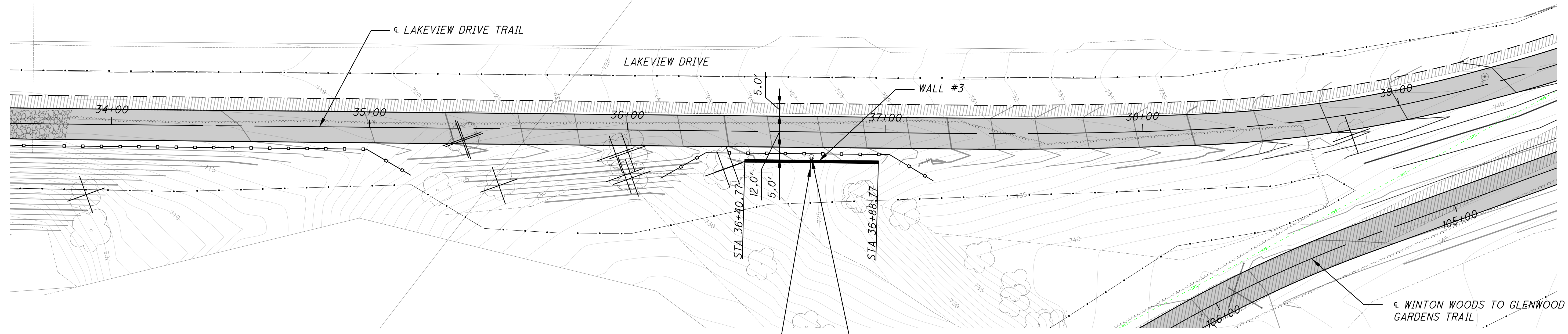
DESIGNER  
 TFZ

REVIEWER  
 SCR 3/29/2024

PROJECT ID  
 117016

SHEET TOTAL  
 P.181 210





**UTILITY LINETYPE LEGEND**

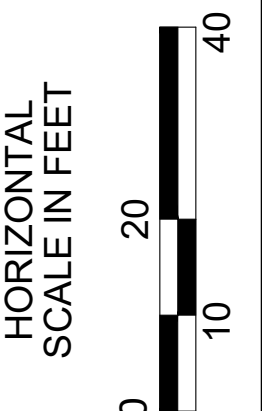
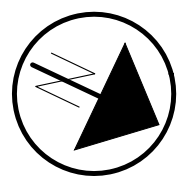
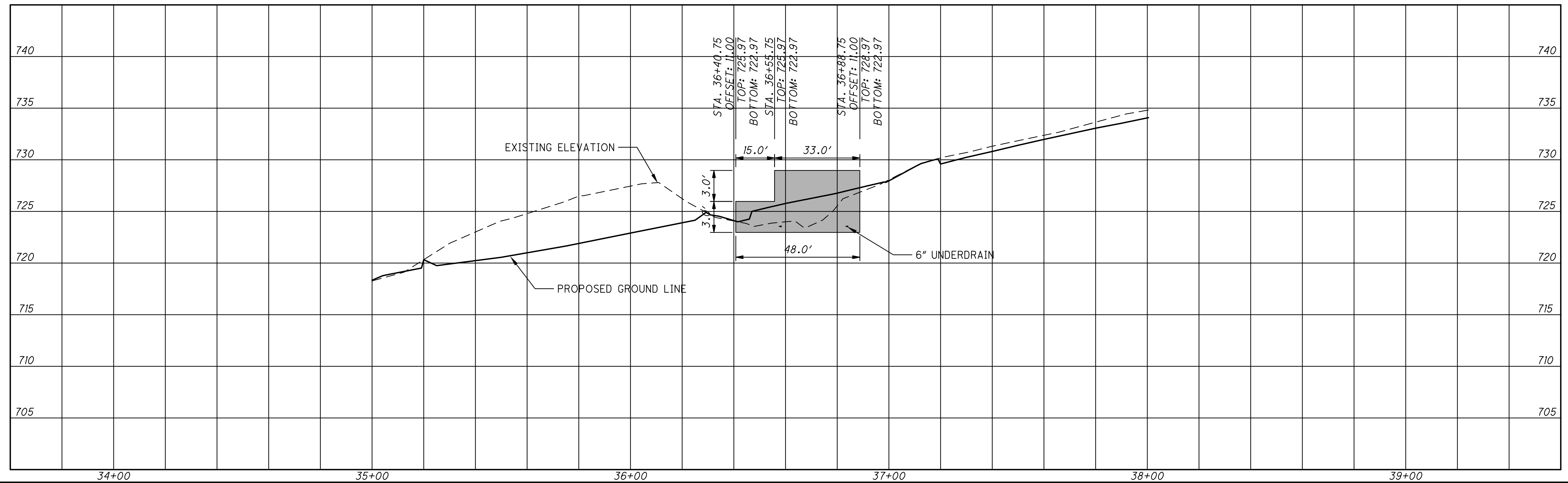
- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHE OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- SS STORM SEWER

**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- FENCE MISC.: RAILING
- 6" UNDERDRAIN
- RETAINING WALL

10LF - 12" PVC @ 1%  
 D5 CATCH BASIN 2-2A  
 STA.: 36+71.51  
 OFFSET: 9.74  
 RIM: 724.05  
 INVERT: 721.96

NOTE;  
 \* PROFILE OFFSET 11' FROM  $\epsilon$  OF TRAIL

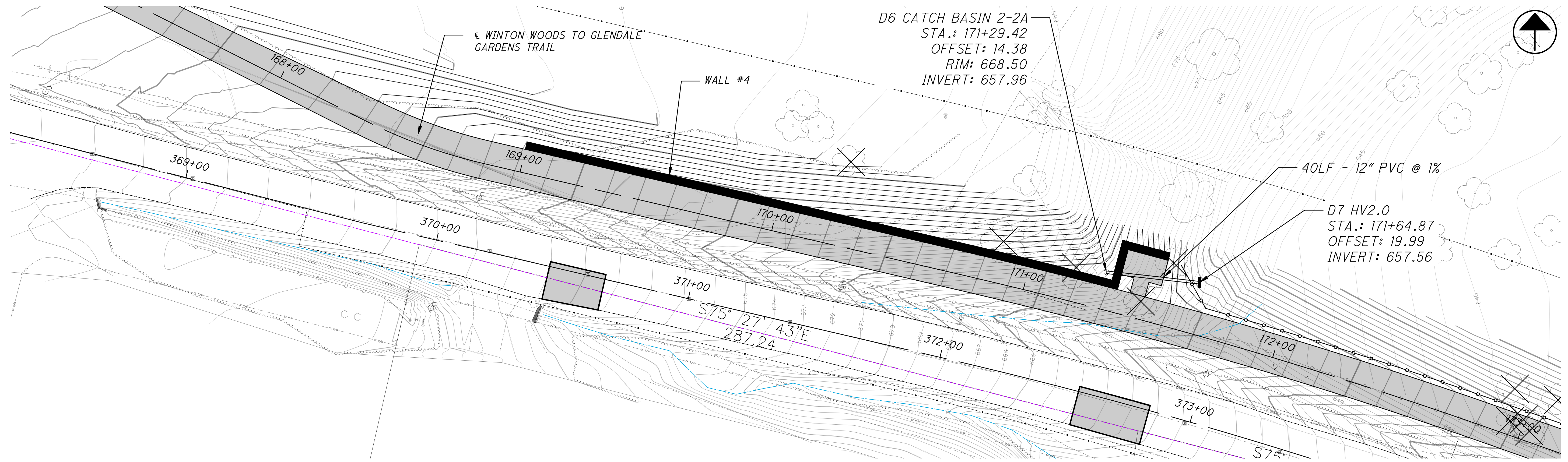


**PLAN AND PROFILE - WALL #3**  
 STA. 36+44.39 TO STA. 36+82.33

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 TFZ  
 REVIEWER  
 SCR 3/29/2024  
 PROJECT ID  
 117016  
 SHEET TOTAL  
 P.182 210





D6 CATCH BASIN 2-2A  
 STA.: 171+29.42  
 OFFSET: 14.38  
 RIM: 668.50  
 INVERT: 657.96

40LF - 12" PVC @ 1%  
 D7 HV2.0  
 STA.: 171+64.87  
 OFFSET: 19.99  
 INVERT: 657.56

S75° 27' 43" E  
 287.24

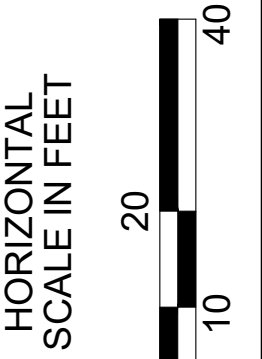
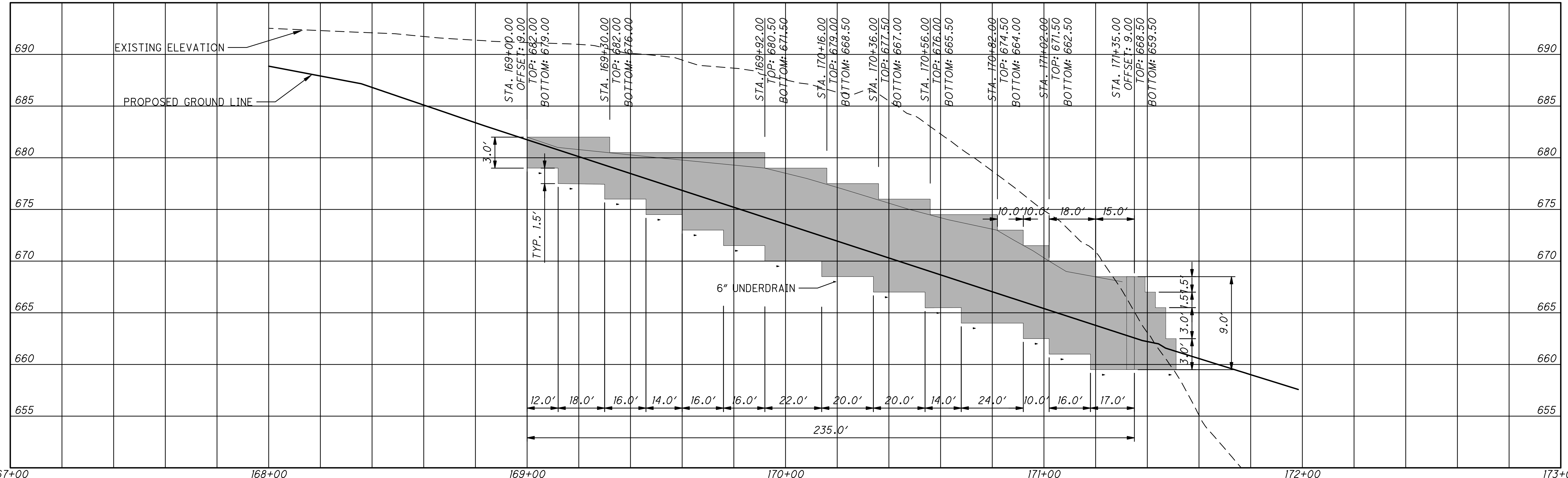
**UTILITY LINETYPE LEGEND**

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
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**LEGEND**

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- FENCE MISC.: RAILING
- 6" UNDERDRAIN
- RETAINING WALL

NOTE:  
 \* PROFILE OFFSET 11' FROM CL OF TRAIL



PLAN AND PROFILE - WALL #4  
 STA. 169+00.00 TO STA. 171+25.00

DESIGN AGENCY  
**KZFJ-SIGN**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
 TFZ

REVIEWER  
 SCR 3/29/2024

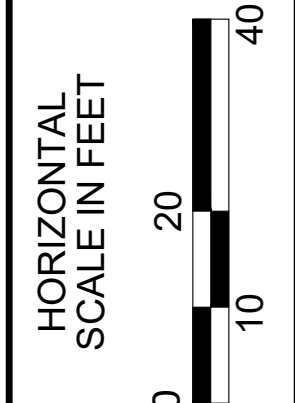
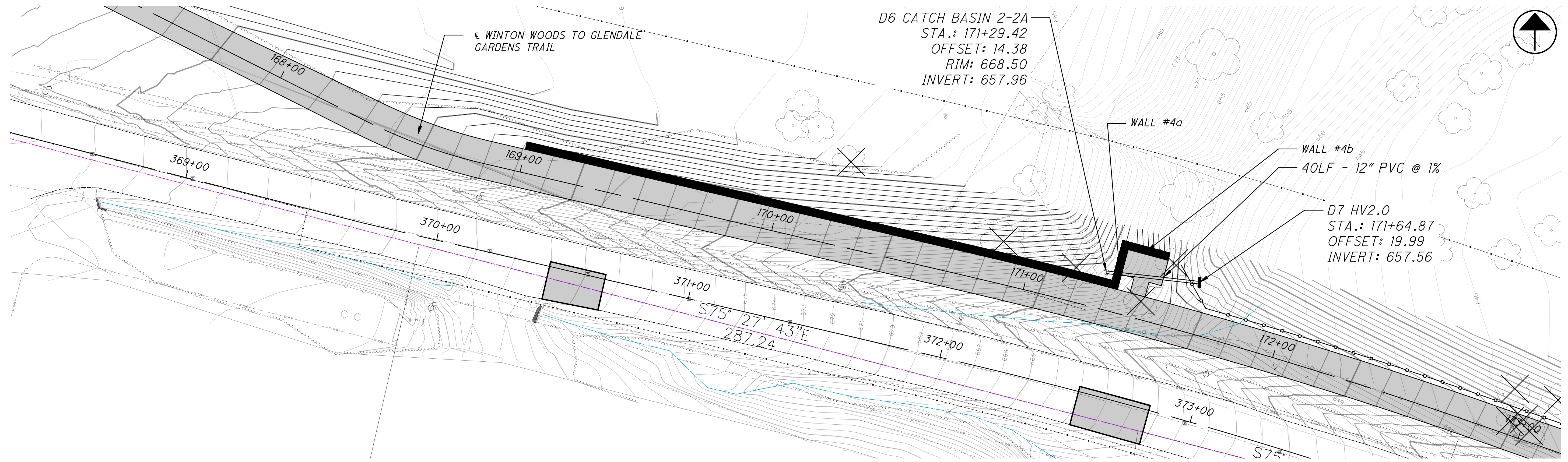
PROJECT ID  
 117016

SHEET TOTAL  
 P.183 210



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

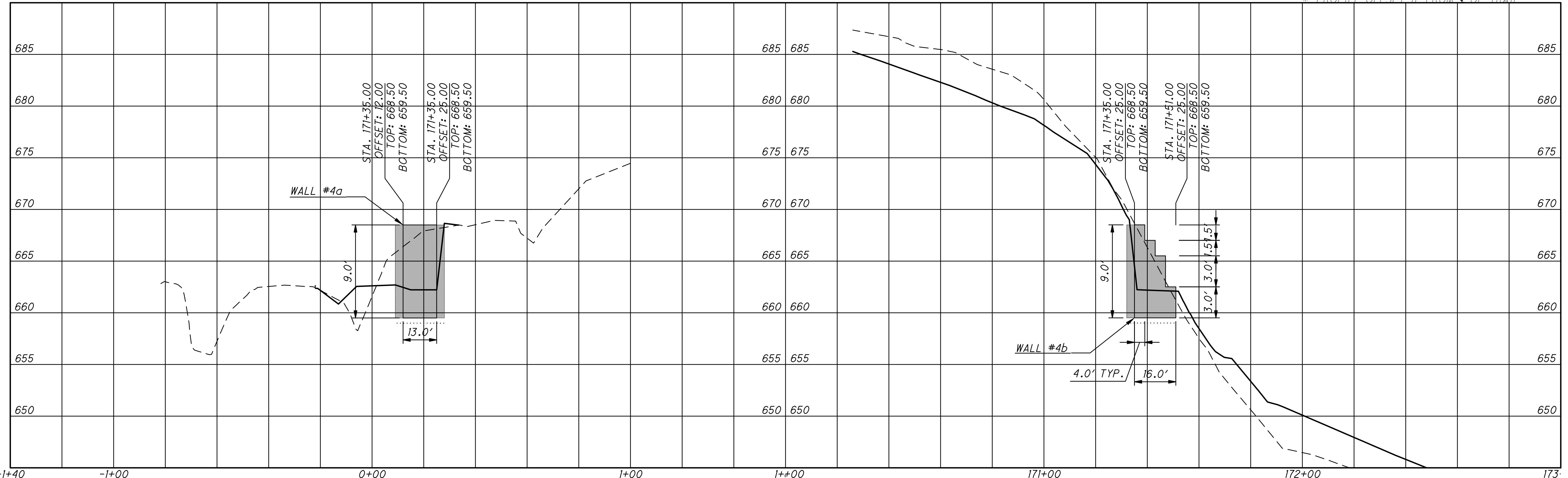
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- UTILITY LINETYPE LEGEND**
- E UNDERGROUND ELECTRIC
  - FO UNDERGROUND FIBER OPTIC
  - T UNDERGROUND TELECOMMUNICATION
  - OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
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  - SS STORM SEWER

- LEGEND**
- CONSTRUCTION LIMITS
  - PROPOSED ASPHALT PAVEMENT
  - SAWCUT
  - FENCE MISC.: RAILING
  - 6" UNDERDRAIN
  - RETAINING WALL

NOTE:  
 \* PROFILE OFFSET 14' FROM CL OF TRAIL



PLAN AND PROFILE - WALL #4a AND WALL #4b  
 STA. 171+25.00 TO STA. 171+41.00

DESIGN AGENCY  
**KZFJ-SIG**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

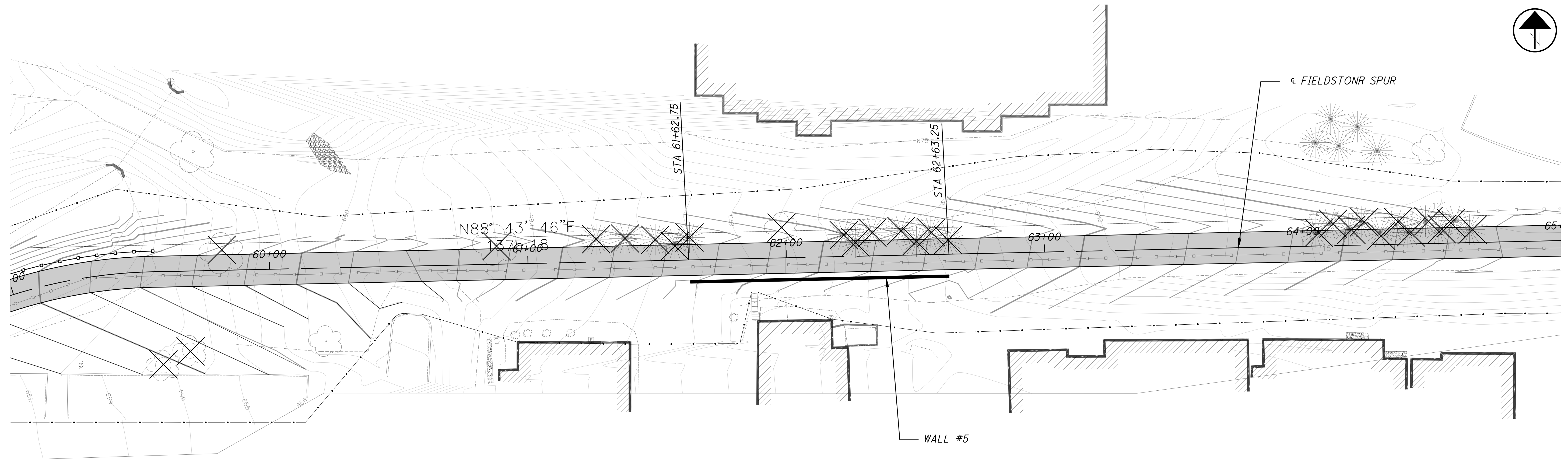
DESIGNER  
 TFZ

REVIEWER  
 SCR 3/29/2024

PROJECT ID  
 117016

SHEET TOTAL  
 P.184 210





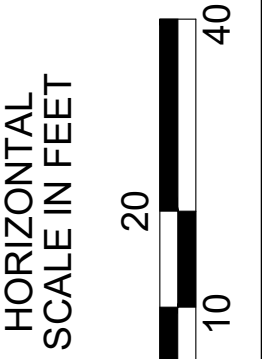
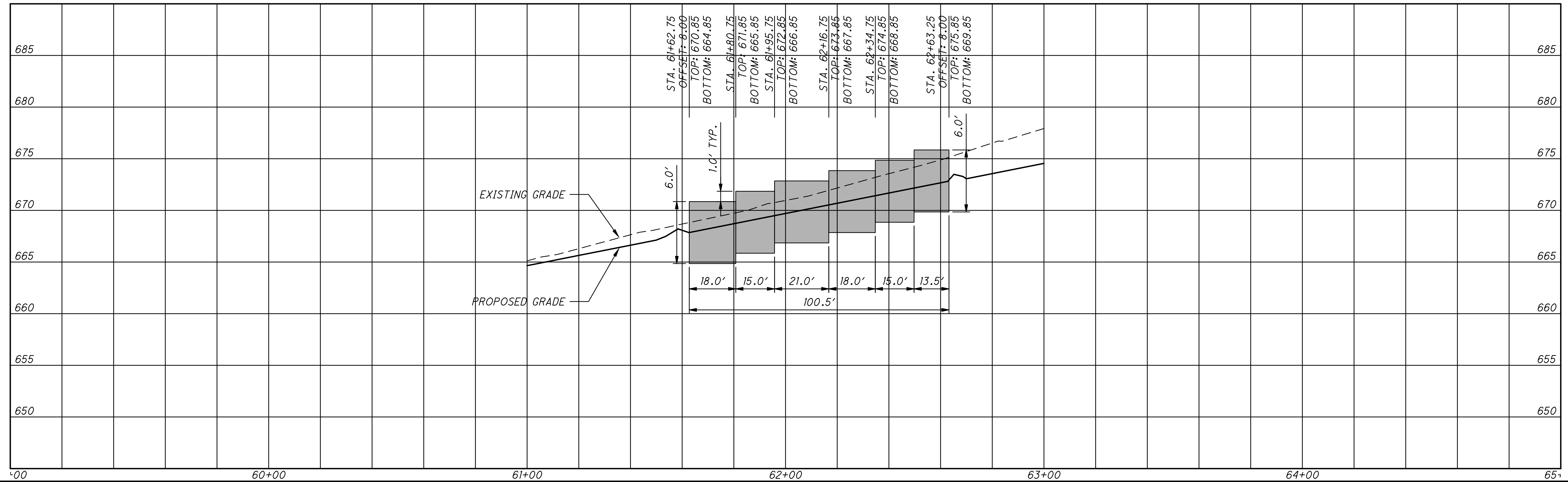
**UTILITY LINETYPE LEGEND**

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- OHT — OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHU — OVERHEAD ELECTRIC / COMBINED
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- - - - - STORM SEWER

**LEGEND**

- — — — — CONSTRUCTION LIMITS
- ▨ PROPOSED ASPHALT PAVEMENT
- - - - - SAWCUT
- ○ ○ ○ ○ FENCE MISC.: RAILING
- ▬▬▬▬▬▬▬ RETAINING WALL

NOTE;  
\* PROFILE OFFSET 11' FROM CL OF TRAIL



**PLAN AND PROFILE - WALL #5**  
STA. 61+62.75 TO STA. 62+63.25

DESIGN AGENCY  
**KZFJ-SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
TFZ  
REVIEWER  
SCR 3/29/2024  
PROJECT ID  
117016  
SHEET TOTAL  
P.185 210



**UTILITIES**

SEE SHEET 9 FOR UTILITY PROVIDERS AND OTHER PROJECT NOTES.

**ITEM 630 SIGNING MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY**

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY. THE FLASHING UNIT SHALL BE SOLAR POWERED, PEDESTRIAN ACTIVATED, AND 2-SIDED WITH TWO LED ARRAY BASED YELLOW

INDICATIONS ON EACH SIDE. MULTIPLE UNITS SHALL BE WIRELESSLY CONTROLLED AND SYNCHRONIZED. THE UNIT SHALL BE COMPLIANT WITH THE MOST CURRENT OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) AND FHWA INTERIM APPROVAL FOR RRFBs (IA-21).

**GENERAL REQUIREMENTS -**

EACH RRFB SHALL CONSIST OF TWO RAPIDLY FLASHED RECTANGULAR-SHAPED YELLOW INDICATIONS HAVING LED ARRAY BASED LIGHT SOURCE.

EACH RRFB SHALL BE A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.).

EACH RRFB SHALL CONTAIN A PEDESTRIAN INDICATION LIGHT VISIBLE BY THE PEDESTRIAN IN THE DIRECTION OF TRAVEL.

**FUNCTIONAL REQUIREMENTS -**

EACH RRFB SHALL UTILIZE SOLAR POWER.

THE UNIT SHALL BE CAPABLE OF RUNNING 14 DAYS WITHOUT SUNLIGHT. EACH RRFB SHALL BE ACTIVATED BY ADA COMPLIANT PUSHBUTTONS.

THE RRFB SHALL BE NORMALLY DARK, SHALL INITIATE OPERATION ONLY UPON PEDESTRIAN ACTUATION, AND SHALL CEASE OPERATION AFTER A PRE-DETERMINED TIME LIMIT (BASED ON OMUTCD PROCEDURES).

EACH REMOTE RRFB SHALL BE WIRELESSLY ACTIVATED.

ALL RRFB LIGHT INDICATIONS SHALL BE WIRELESSLY SYNCHRONIZED (ALL LIGHTS WILL TURN ON WITHIN 120 MSEC AND REMAIN SYNCHRONIZED THROUGHOUT THE DURATION OF THE FLASHING CYCLE).

**MATERIALS -**

FURNISH A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS, AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.). THE RRFB ASSEMBLY INCLUDES THE FOLLOWING ITEMS:

**1. RRFB INDICATIONS**

- A. EACH RRFB INDICATION LENS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE X 2" HIGH.
- B. THE RRFB INDICATIONS SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.
- C. EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.
- D. EACH RRFB SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE.

- E. THE LIGHT INTENSITY OF THE YELLOW INDICATIONS SHALL MEET THE MINIMUM CLASS 1 SPECIFICATIONS OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY, 2005.
- F. TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHALL BE USED TO REDUCE THE BRILLIANCE OF THE RRFB INDICATIONS.
- G. AN LED PEDESTRIAN CONFIRMATION LIGHT DIRECTED AT AND VISIBLE TO PEDESTRIANS IN THE CROSSWALK SHALL BE INSTALLED INTEGRAL TO THE RRFB OR PUSHBUTTON TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.
- H. THE PEDESTRIAN CONFIRMATION LIGHT SHALL HAVE A MINIMUM AREA OF 0.5 SQUARE INCHES AND BE CONSPICUOUS TO PEDESTRIANS AT ALL DISTANCES FROM THE BEGINNING OF THE CONTROLLED CROSSWALK TO A POINT 10 FEET FROM THE END OF THE CONTROLLED CROSSWALK DURING BOTH DAY AND NIGHT.

**2. SIGNS**

- A. ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENERS TO MOUNT COMPONENTS TO SIGN AND SIGN TO FIXTURE.
- B. PEDESTRIAN PUSHBUTTONS SIGNS SHALL BE PROVIDED AND INCLUDE THE LEGEND "PUSH BUTTON TO TURN ON WARNING LIGHTS". SIGNS SHOULD BE MOUNTED ADJACENT TO OR INTEGRAL WITH EACH PEDESTRIAN PUSHBUTTON.

- C. TWO SETS OF SIGNS SHALL BE REQUIRED PER UNIT FOR VIEW FROM EACH APPROACH.
- D. ASSURE SIGN MEETS THE REQUIREMENTS OF C&MS 630.

**3. CONTROL CIRCUIT**

- A. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP T TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE.
- B. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS.
- C. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.

**ITEM 630 SIGNING MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY**

- 4. BATTERY AND SOLAR PANELS
  - A. BATTERY UNIT SHALL BE A 12VDC, 35 AHR MINIMUM, SEALED GEL OR AGM LEAD ACID BATTERY. BATTERIES SHALL HAVE A WRITTEN TWO YEAR FULL REPLACEMENT WARRANTY.
  - B. THE SOLAR PANEL SHALL PROVIDE A MINIMUM OF 40 WATTS PEAK TOTAL OUTPUT.
  - C. THE SOLAR PANEL SHALL BE MOUNTED TO AN ALUMINUM PLATE AND BRACKET AT AN ANGLE OF 45 DEGREES - 60 DEGREES TO PROVIDE MAXIMUM OUTPUT.
  - D. ALL FASTENERS USED SHALL BE ANTI-VANDAL.
- 5. WIRELESS RADIO
  - A. RADIO CONTROL SHALL OPERATE ON A 900 MHZ FREQUENCY HOPPING SPREAD SPECTRUM NETWORK, WI-FI OR APPROVED EQUAL.
  - B. RADIO SHALL INTEGRATE COMMUNICATION OF RRFB CONTROL CIRCUIT TO ACTIVATE SIGN FROM PUSHBUTTON INPUT.
  - C. THE RADIO SHALL BE SYNCHRONIZED SO ALL OF THE REMOTE RRFB LIGHT INDICATIONS WILL TURN ON WITHIN 120 MSEC OF EACH OTHER AND REMAIN SYNCHRONIZED THROUGH-OUT THE DURATION OF THE FLASHING CYCLE.
- 6. PUSHBUTTON
  - A. THE PUSHBUTTON SHALL BE CAPABLE OF CONTINUOUS OPERATION OVER A TEMPERATURE RANGE OF -30 DEGREES F TO +165 DEGREES F.
  - B. PUSHBUTTON SHALL BE ADA COMPLIANT.
- 7. PEDESTAL SHAFT AND BASE - MOUNT ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH BREAKAWAY BASE. A 14 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED AND CAPPED TO MAINTAIN THE PROPER SIGN MOUNTING HEIGHTS, UNLESS SPECIFIED OTHERWISE IN THE PLANS. POLE AND BASE MANUFACTURER SHALL BE LISTED ON ODOT'S QUALIFIED PRODUCTS LIST.

**CONSTRUCTION -**

THE RRFB SHALL BE ASSEMBLED AND CONSTRUCTED BY THE CONTRACTOR AS SHOWN AND SPECIFIED ON THE PLANS.

**WARRANTY -**

WARRANTY SHALL BE TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE.

**MEASUREMENT -**

THE DEPARTMENT WILL MEASURE THE ITEM COMPLETE IN PLACE, INCLUDING ALL MATERIALS, TESTING, LABOR AND SOFTWARE FOR A FULLY FUNCTIONAL UNIT.

**PAYMENT -**

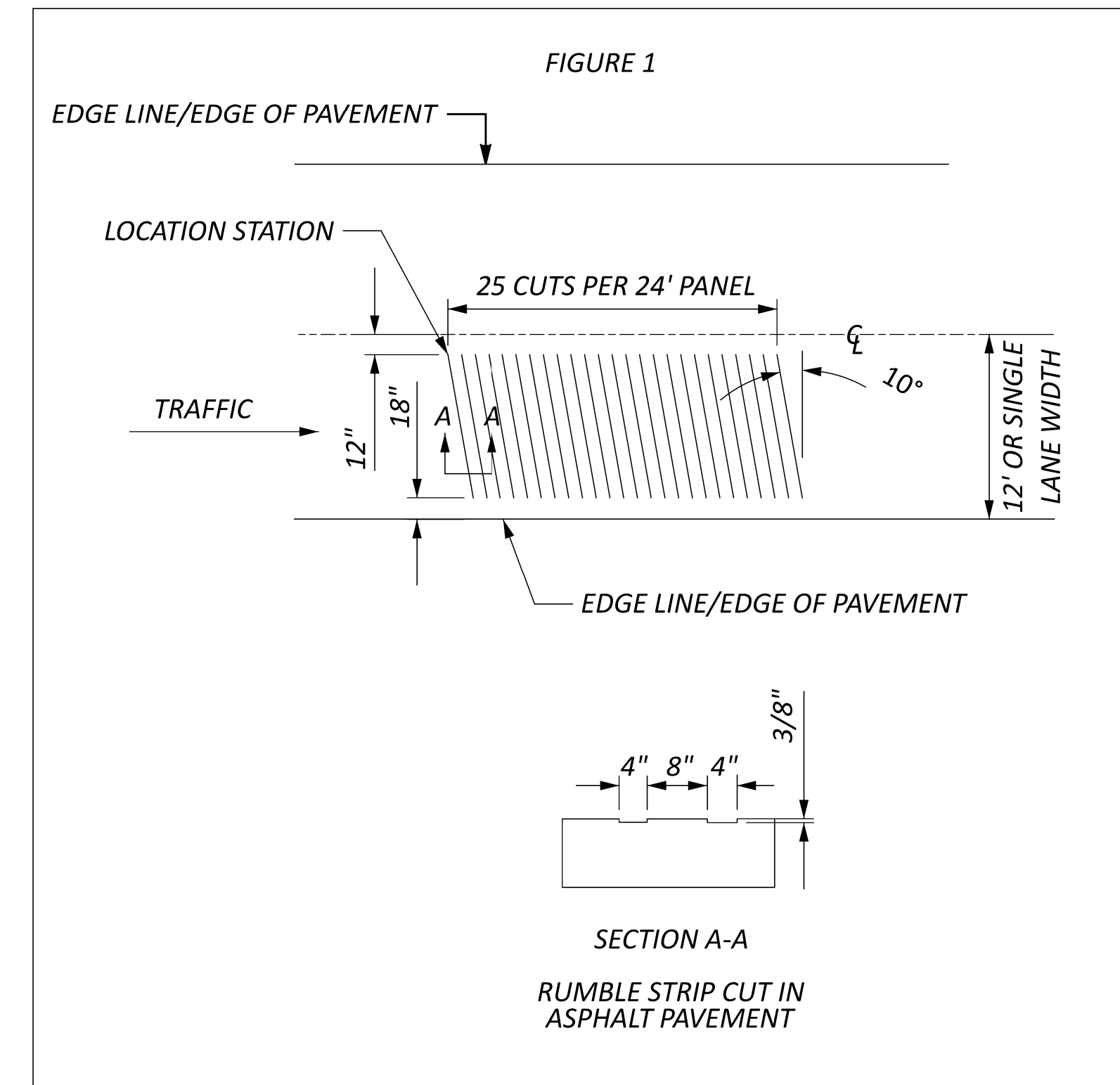
PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 "SIGNING MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY.

**ITEM 618 RUMBLE STRIPS, TRANSVERSE (ASPHALT CONCRETE), AS PER PLAN**

SEE FIGURE 1 BELOW FOR GUIDANCE AND THE TYPICAL DIMENSIONS OF THE TRANSVERSE RUMBLE STRIPS.

**PAYMENT -**

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE FOR CUTTING EACH 24' PANEL FOR ITEM 618 RUMBLE STRIPS, TRANSVERSE (ASPHALT CONCRETE), AS PER PLAN.



DESIGN AGENCY



DESIGNER  
CDS

REVIEWER  
CFD 03-28-24

PROJECT ID  
117016

SHEET TOTAL  
P.186 210

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630	630	630	630	630	630	630	630	630	630	630	630	630
							GROUND MOUNTED SUPPORT, NO. 3 POST	STREET NAME SIGN SUPPORT, NO. 3 POST	SIGN POST REFLECTOR	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND REECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	SIGNING, MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY					
							FT	FT	EACH	SQ FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
191	S-1	CARLSBAD ROAD	300+35	LT	R1-1-30	30 X 30			1	6.25									
191	S-2	CARLSBAD ROAD	301+33	LT	W11-15-30	30 X 30	17			6.25									
					W11-15P-24	24 X 24				4.00									
					W16-9P-24	24 X 24				4.00									
191	S-3	TRAIL	100+44	RT	R5-3-24	24 X 24	13			4.00									
191	S-4	CARLSBAD ROAD	300+35	LT				16					2						
	S-5	NOT USED																	
192	S-6	TRAIL	133+03	RT	W3-1-18	18 X 18	12			2.25									
192	S-7	TRAIL	134+01	RT	R1-1-18	18 X 18	12		1	2.25									
192	S-8	TRAIL	134+02	LT	R5-3-24	24 X 24	13			4.00									
					W11-15-30	30 X 30				6.25									
192	S-9	MCKELVEY ROAD	134+04	LT	W11-15P-24	24 X 24	13			4.00									
					W16-7PL-24	24 X 12				2.00									
					W11-15-30	30 X 30				6.25									
192	S-10	MCKELVEY ROAD	134+04	LT	W11-15P-24	24 X 24	13			4.00									
					W16-9P-24	24 X 12				2.00									
192	S-11	TRAIL	134+28	LT	R1-1-18	18 X 18	12		1	2.25									
192	S-12	TRAIL	134+28	RT	R5-3-24	24 X 24	13			4.00									
					W11-15-30	30 X 30				6.25									
192	S-13	MCKELVEY ROAD	134+29	RT	W11-15P-24	24 X 24	13			4.00									
					W16-7PL-24	24 X 12				2.00									
192	S-14	TRAIL	135+29	LT	W3-1-18	18 X 18	13			2.25									
					W11-15-30	30 X 30				6.25									
192	S-15	MCKELVEY ROAD	134+29	RT	W11-15P-24	30 X 30	15			6.25									
					W16-9P-24	24 X 12				2.00									
					W11-15-30	30 X 30				6.25									
193	S-16	TOULON DRIVE	402+48	RT	W11-15P-24	30 X 30	15			6.25									
					W16-9P-24	24 X 12				2.00									
193	S-17	TOULON DRIVE	403+49	RT	R1-3P-24	24 X 12				2.00									
					W11-15-30	30 X 30				6.25									
193	S-18	SHEFFIELD ROAD	354+75	RT	W11-15P-24	30 X 30	15			6.25									
	S-19				W16-7PR-24	24 X 12		2.00											
					W11-15-30	30 X 30		6.25											
					W11-15P-24	30 X 30				6.25									
					W16-7PL-24	24 X 12				2.00									
193	S-20	TRAIL	153+28	LT	R5-3-24	24 X 24	13			4.00									
193	S-21	SHEFFIELD ROAD	354+53	RT	R1-1-30	30 X 30	13		1	6.25									
					R1-3P-24	24 X 12				2.00									
					W11-15-30	30 X 30				6.25									
193	S-22	SHEFFIELD ROAD	353+53	RT	W11-15P-24	30 X 30	15			6.25									
					W16-9P-24	24 X 12				2.00									
193	S-23	SHEFFIELD ROAD	352+53	RT	W3-1-48	48 X 48	17			16.00									
					W11-15-30	30 X 30				6.25									
193	S-24	SHEFFIELD ROAD	354+54	LT	W11-15P-24	30 X 30	15			6.25									
					W16-7PR-24	24 X 12		2.00											
					W11-15-30	30 X 30		6.25											
					W11-15P-24	30 X 30				6.25									
					W16-7PL-24	24 X 12				2.00									
193	S-26	TRAIL	153+66	RT	R5-3-24	24 X 24	13			4.00									
193	S-27	SHEFFIELD ROAD	355+16	LT			13						2						
193	S-28	SHEFFIELD ROAD	355+31	LT	R1-1-30	30 X 30			1	6.25									
					R1-3P-24	24 X 12				2.00									
193	S-29	SHEFFIELD ROAD	356+57	LT	W3-1-48	48 X 48	17			16.00									
193	S-30	SHEFFIELD ROAD	357+57	LT	W2-4-30	30 X 30	15			6.25									
					W11-15-30	30 X 30				6.25									
193	S-31	SHEFFIELD ROAD	358+57	LT	W11-15P-24	30 X 30	15			6.25									
					W16-9P-24	24 X 12				2.00									

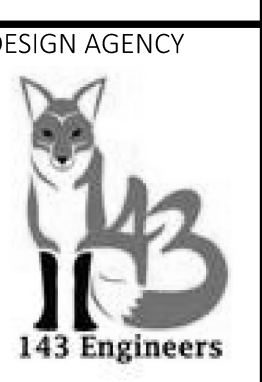
TRAFFIC CONTROL SIGNING SUBSUMMARY	
DESIGN AGENCY	
	
DESIGNER	CDS
REVIEWER	CFD
PROJECT ID	03-28-24
SHEET	117016
TOTAL	0
P.187	210

TOTALS THIS SHEET

348 16 5 259 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630	630	630	630	630	630	630	630	630	630	630	630	630	
							GROUND MOUNTED SUPPORT, NO. 3 POST	STREET NAME SIGN SUPPORT, NO. 3 POST	SIGN POST REFLECTOR	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND REECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	SIGNING, MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY						
							FT	FT	EACH	SQ FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
194	S-30	SHEFFIELD ROAD	370+67	RT	W11-15-30	30 X 30				6.25										
					W11-15P-24	30 X 30	15			6.25										
					W16-2P-24	24 X 12				2.00										
194	S-31	TRAIL	176+13	RT	R1-5-24	24 X 24	13			4.00										
194	S-32	TRAIL	177+34	LT	W3-1-18	18 X 18	13		1	2.25										
194	S-33	TRAIL	176+16	LT	R1-1-18	18 X 18	12		1	2.25										
194	S-34	TRAIL	175+25	RT	W3-1-18	18 X 18	13		1	2.25										
194	S-35	TRAIL	175+68	RT	R1-1-18	18 X 18	12		1	2.25										
194	S-36	TRAIL	175+78	LT	R1-5-24	24 X 24	13			4.00										
					W11-15-30	30 X 30				6.25										
194	S-37	SHEFFIELD ROAD	379+88	LT	W11-15P-24	30 X 30	15			6.25										
					W16-2P-24	24 X 12				2.00										
194	RRFB-1	SHEFFIELD ROAD	376+75	LT													1			
194	RRFB-2	SHEFFIELD ROAD	376+98	RT													1			
195	S-38	TRAIL	205+36	RT	R1-5-24	24 X 24	13			4.00										
195	S-39	DRIVEWAY	205+56	RT	R1-1-30	30 X 30	12		1	6.25										
					W11-15-30	30 X 30				6.25										
195	S-40	DRIVEWAY		RT	W11-15P-24	30 X 30	15			6.25										
195	S-41	TRAIL	205+55	LT	R1-5-24	24 X 24	13			4.00										
195	S-42	TRAIL	205+37	LT	R1-1-30	30 X 30	12		1	6.25										
					W11-15-30	30 X 30				6.25										
195	S-43	DRIVEWAY		LT	W11-15P-24	30 X 30	15			6.25										
										6.25										
191	R-3	CARLSBAD ROAD	300+46	LT								3			1					
193	R-4	SHEFFIELD ROAD	357+60	LT								3			1					
193	R-5	TOULON DRIVE	403+49	RT								1								
193	R-6	TRAIL	152+91	RT								1			2					
193	R-7	TRAIL	152+96	RT								1			2					
TOTALS FROM SHEET 187							348	16	5	259	0	4	0	0	0	0	0	0	0	
TOTALS FROM SHEET 188							186	0	6	91.5	9	0	6	2	0	0	0	0	0	0
TOTALS CARRIED TO GENERAL SUMMARY							534	16	11	351	9	4	6	2	0	0	0	0	0	

TRAFFIC CONTROL  
SIGNING SUBSUMMARY




DESIGNER  
CDS  
 REVIEWER  
CFD 03-28-24  
 PROJECT ID  
117016  
 SHEET TOTAL  
P.188 210







REF. NO.	SHEET NO.	STATION TO STATION		618	621	642	644	644	644	644									
				RUMBLE STRIPS, TRANSVERSE (ASPHALT CONCRETE), AS PER PLAN	RAISED PAVEMENT MARKER REMOVED	REMOVAL OF PAVEMENT MARKING	EDGE LINE, 6"	CENTERLINE	STOP LINE	TRANSVERSE/DIAGONAL LINE									
				EACH	EACH	FT	MILE	MILE	FT	FT									
CW-1	191	CARLSBAD RD 300+19	TRAIL 300+31							100									
SL-1	191	CARLSBAD RD 300+35							15										
CL-1	191	TRAIL 100+28	TRAIL 101+28				0.01												
CW-2	192	TRAIL 134+06	TRAIL 134+24							36									
CL-2	192	TRAIL 133+00	TRAIL 134+00				0.01												
CL-3	192	TRAIL 134+29	TRAIL 135+29				0.01												
CL-7	193	TOULON DR 403+00	TOULON DR 403+50					0.01											
EL-2	193	TOULON DR 403+45	SHEFFIELD RD 355+73				0.01												
SL-3	193	TOULON DR 403+50							12										
CW-3	193	TOULON DR 403+54	TOULON DR 403+60																
CL-6	193	SHEFFIELD RD 355+31	SHEFFIELD RD 355+73					0.01											
SL-2	193	SHEFFIELD RD 355+31							12										
EL-1	193	SHEFFIELD RD 354+39	SHEFFIELD RD 355+73				0.01												
CL-8	193	SHEFFIELD RD 354+39	SHEFFIELD RD 354+53					0.01											
SL-4	193	SHEFFIELD RD 354+53							12										
CW-4	193	SHEFFIELD RD 354+57	SHEFFIELD RD 354+69							48									
CL-4	193	TRAIL 152+30	TRAIL 153+30					0.01											
CL-5	193	TRAIL 153+64	TRAIL 154+64					0.01											
RS-1	194	SHEFFIELD RD 370+43		1															
RS-2	194	SHEFFIELD RD 372+48		1															
RS-3	194	SHEFFIELD RD 374+91		1															
RS-4	194	SHEFFIELD RD 378+36		1															
RS-5	194	SHEFFIELD RD 380+12		1															
CW-5	194	TRAIL 175+80	TRAIL 176+05							60									
CL-6	194	TRAIL 174+69	TRAIL 175+75					0.01											
CL-7	194	TRAIL 176+11	TRAIL 177+11					0.01											
R-1	191	CARLSBAD RD 300+10, LT/RT	CARLSBAD RD 300+15, LT/RT			105													
R-2	191	CARLSBAD RD 300+22, LT				30													
R-8	193	SHEFFIELD RD 354+41	SHEFFIELD RD 355+64			104													
R-9	193	SHEFFIELD RD 355+52, LT			1														
TOTALS CARRIED TO GENERAL SUMMARY				5	1	1	1	1	51	244	0	0	0	0	0	0	0	0	0

TRAFFIC CONTROL  
PAVEMENT MARKING SUBSUMMARY

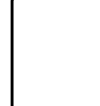
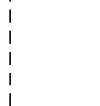

DESIGN AGENCY  
  
 143 Engineers  
 DESIGNER: CDS  
 REVIEWER: CFD  
 PROJECT ID: 117016  
 SHEET: P.189 TOTAL: 210

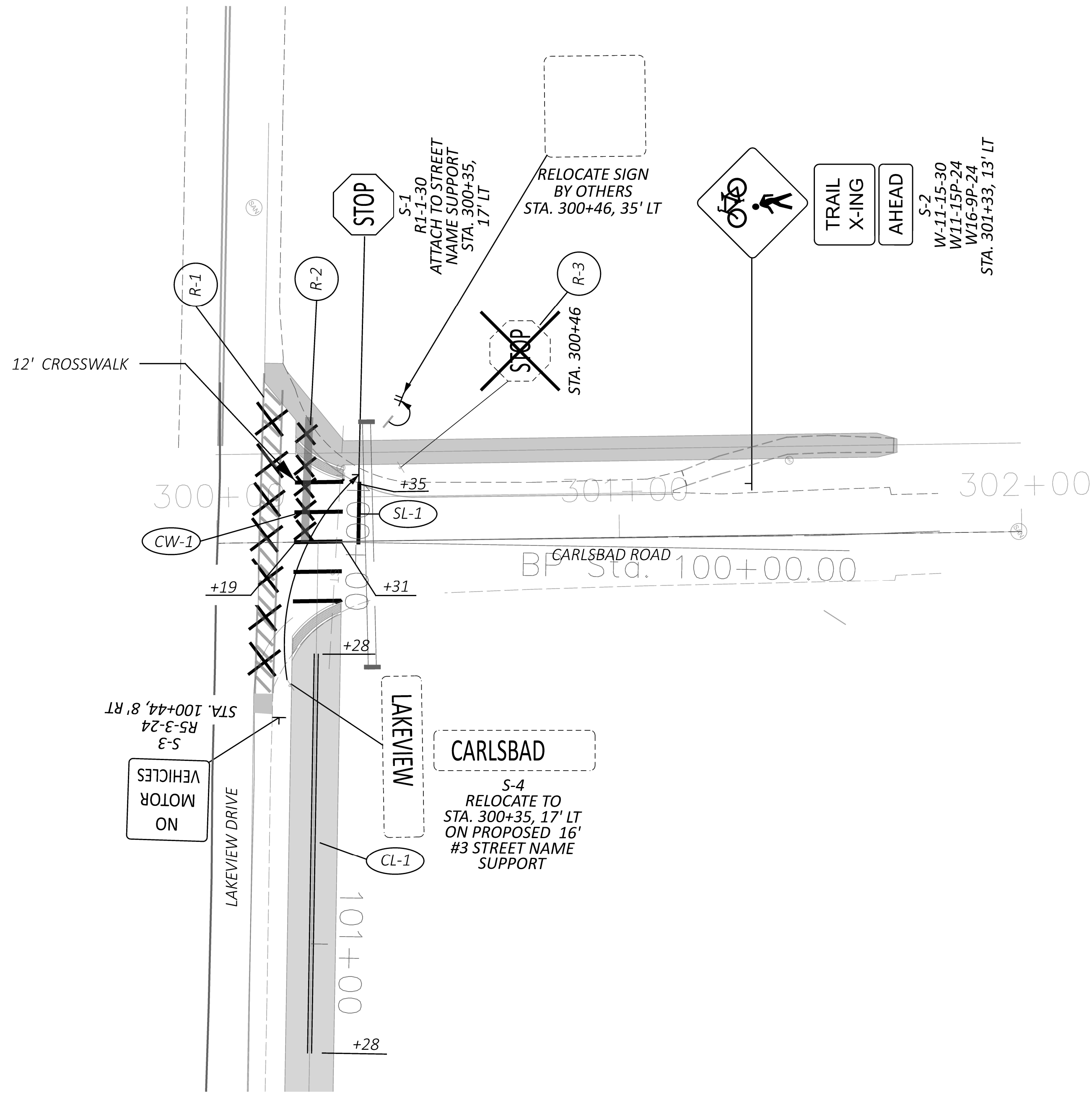
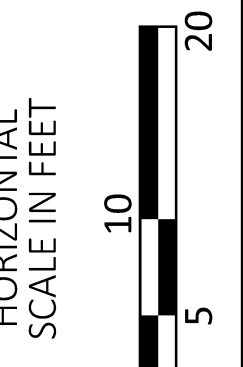
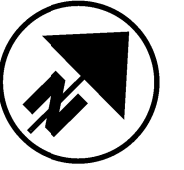


PAVEMENT MARKING LEGEND

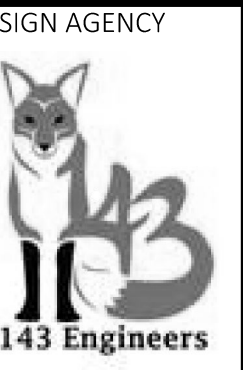
-  STOP LINE
-  TRANSVERSE/DIAGONAL CROSSWALK
-  CENTERLINE
-  PAVEMENT MARKING REMOVED

SIGNING LEGEND

-  PROPOSED SIGN
-  EXISTING SIGN TO REMAIN  
(RELOCATIONS NOTED IN PLANS)
-  EXISTING SIGN TO BE REMOVED



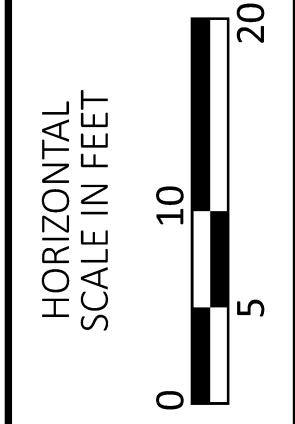
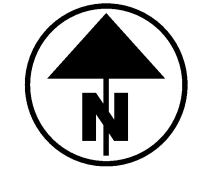
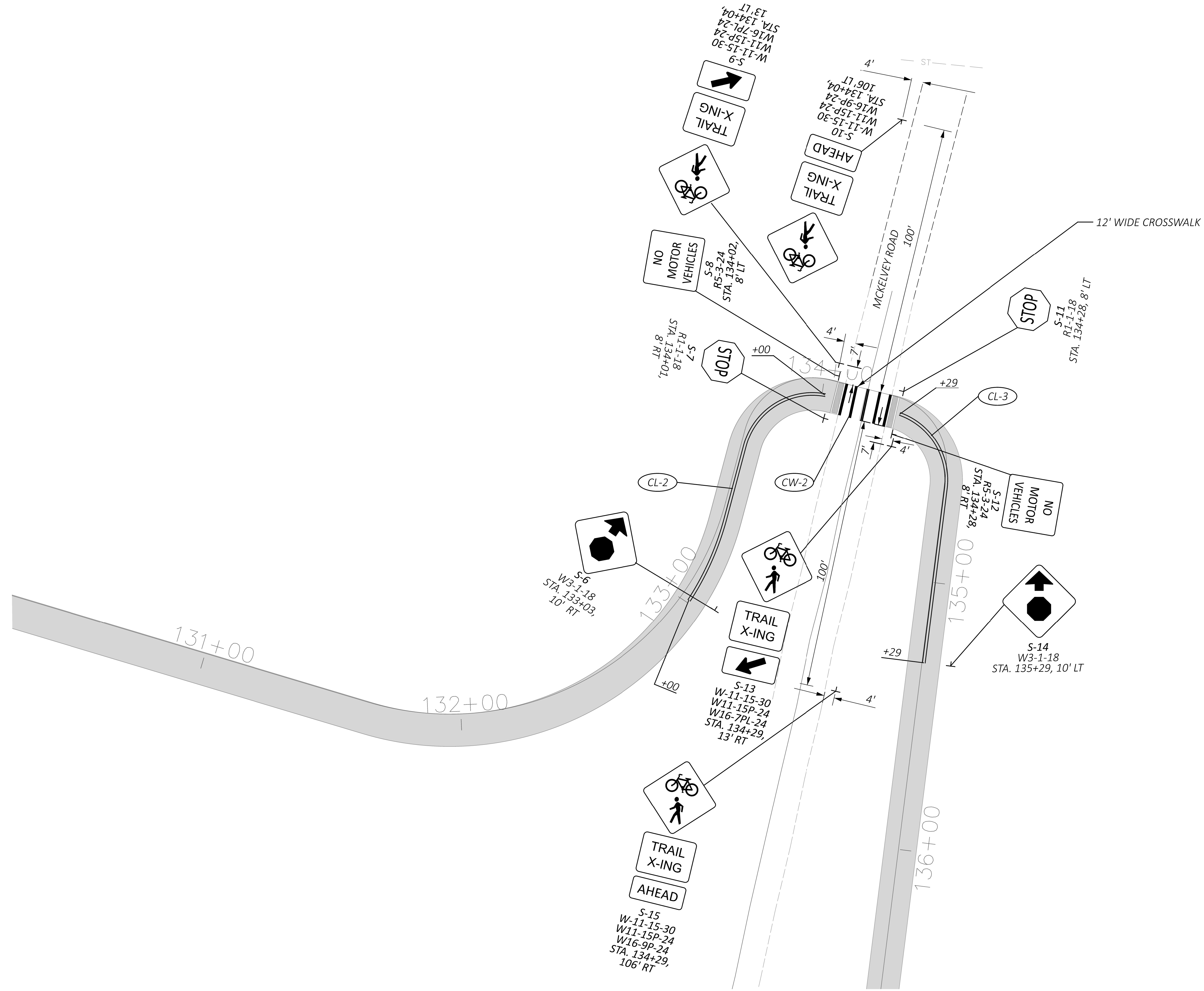
TRAFFIC CONTROL  
 CARLSBAD ROAD INTERSECTION



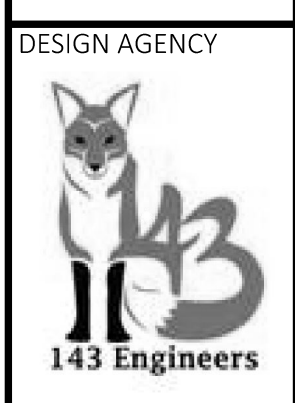
DESIGN AGENCY	143 Engineers
DESIGNER	CDS
REVIEWER	CFD
PROJECT ID	03-28-24
SHEET	117016
TOTAL	210



SEE SHEET 191 FOR SIGNING AND PAVEMENT MARKING LEGEND



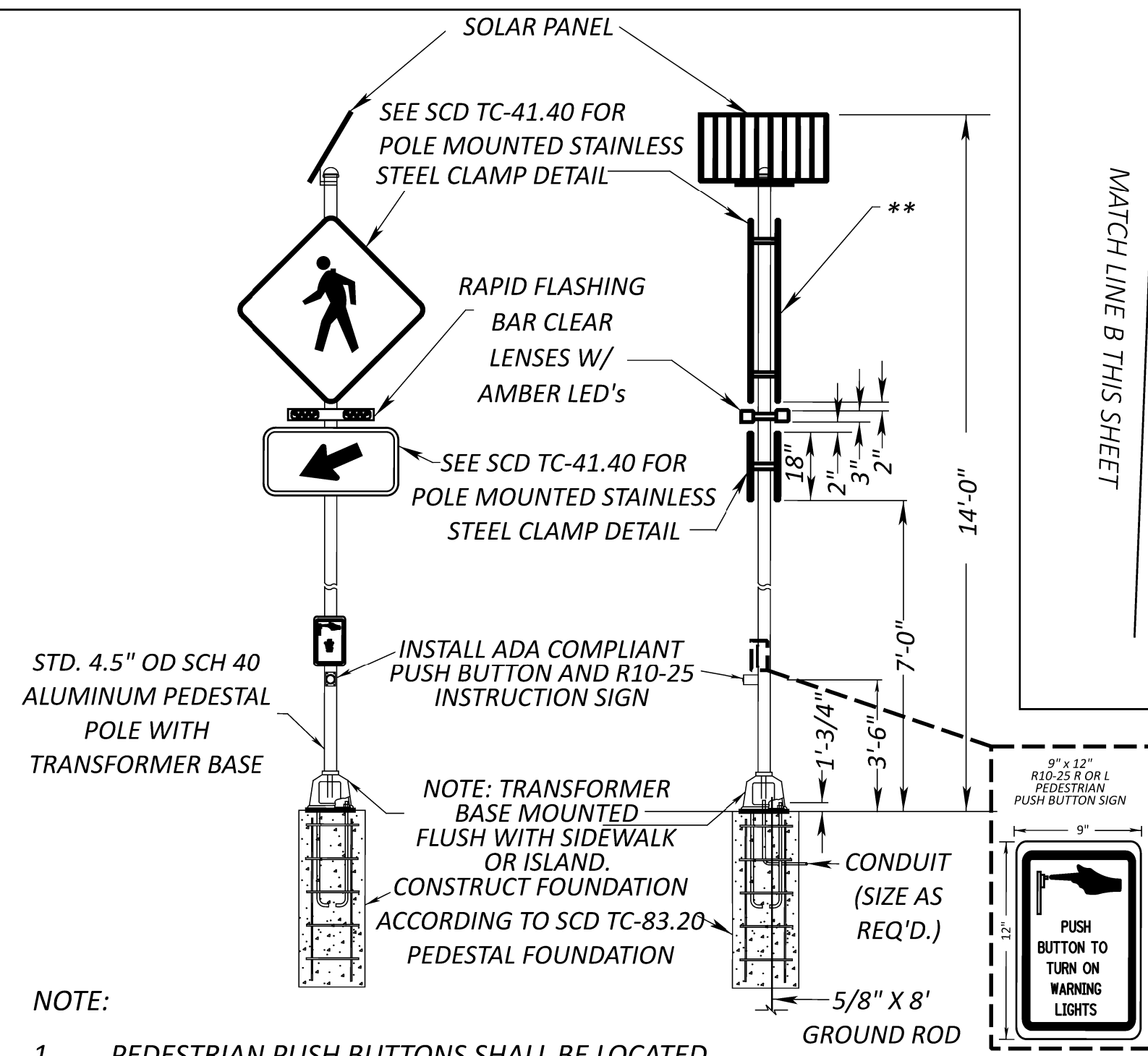
TRAFFIC CONTROL  
MCKELVEY ROAD INTERSECTION



DESIGNER	CDS
REVIEWER	CFD
PROJECT ID	117016
SHEET TOTAL	P.192   210

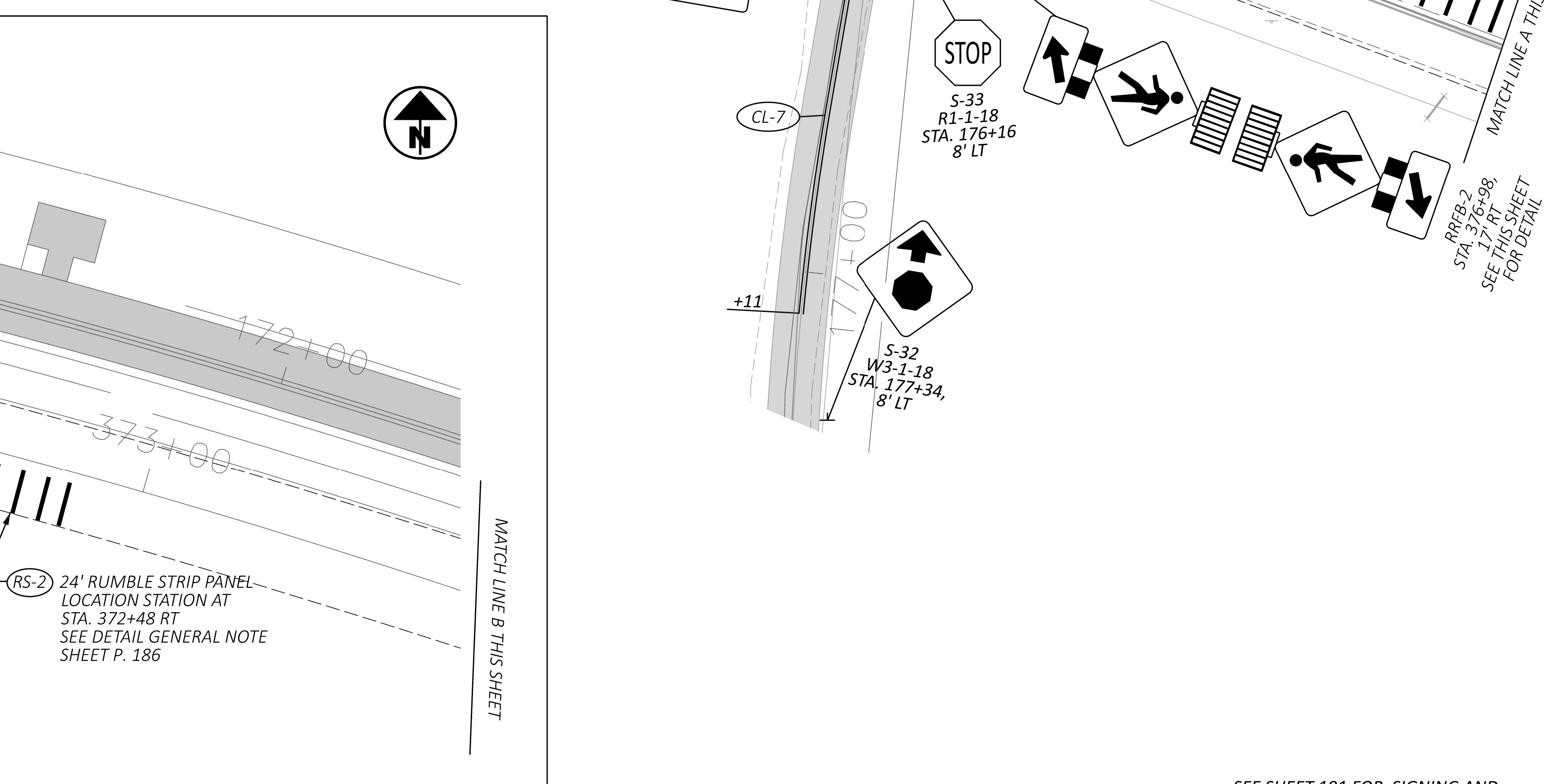
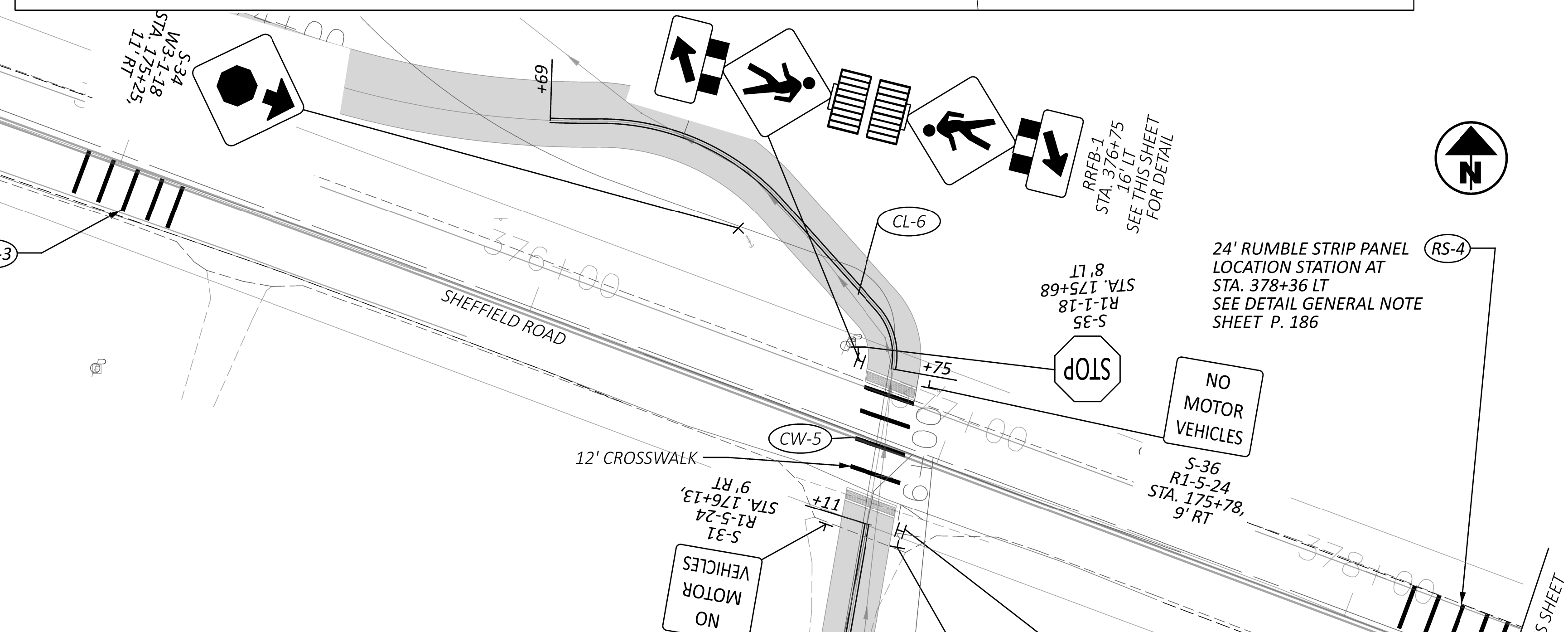
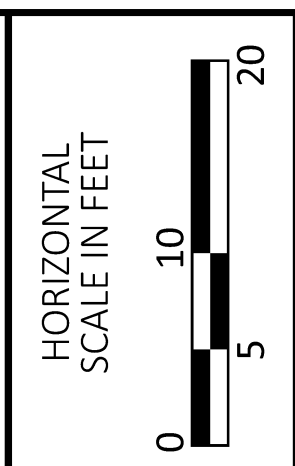
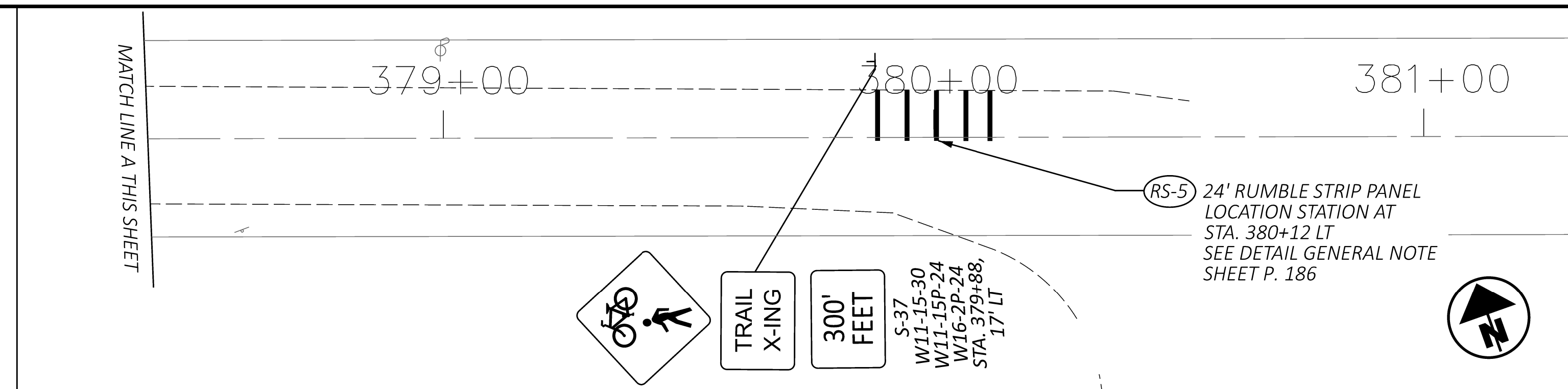


SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY DETAIL



NOTE:

1. PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED NO GREATER THAN 5 FEET FROM THE SIDE OF A CURB RAMP RUN OR THE EDGE OF THE FARTHEST ASSOCIATED CROSSWALK LINE FROM THE CENTER OF THE INTERSECTION. PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED BETWEEN 1.5 AND 10 FEET FROM THE EDGE OF THE CURB OR PAVEMENT.
2. SEE THE TRAFFIC CONTROL GENERAL NOTES FOR ADDITIONAL RFFB NOTES.

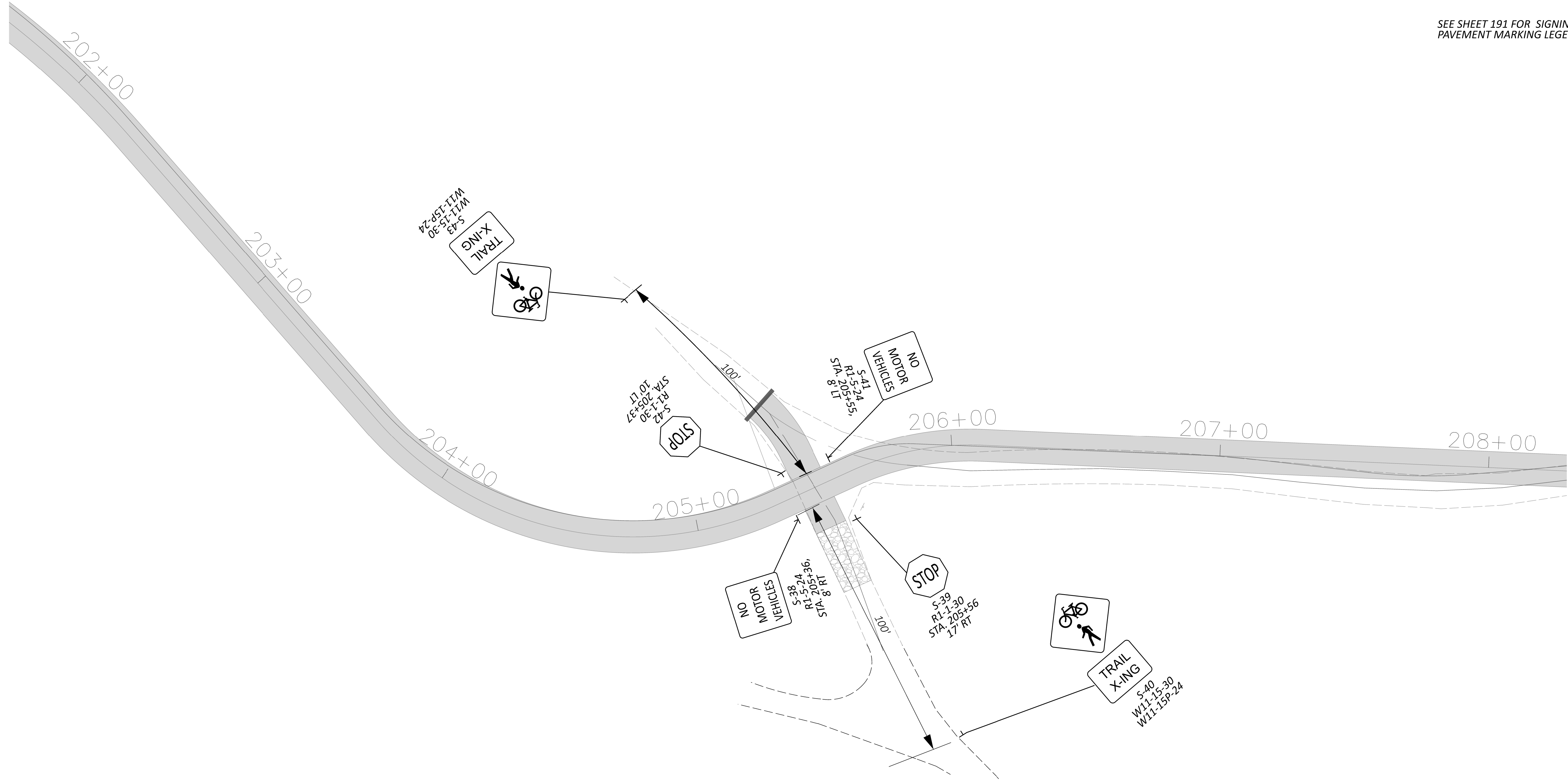


TRAFFIC CONTROL SHEFFIELD ROAD CROSSING

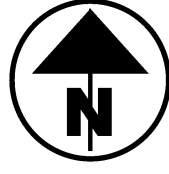
DESIGN AGENCY	
DESIGNER	CDS
REVIEWER	CFD
PROJECT ID	03-28-24
SHEET TOTAL	117016
P.194	210

SEE SHEET 191 FOR SIGNING AND PAVEMENT MARKING LEGEND





SEE SHEET 191 FOR SIGNING AND PAVEMENT MARKING LEGEND



TRAFFIC CONTROL  
GRAVEL DRIVEWAY CROSSING

DESIGN AGENCY



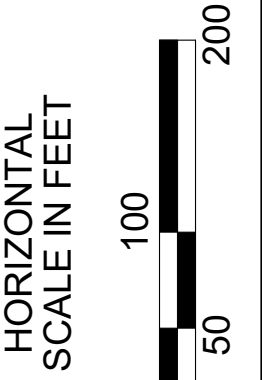
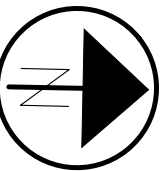
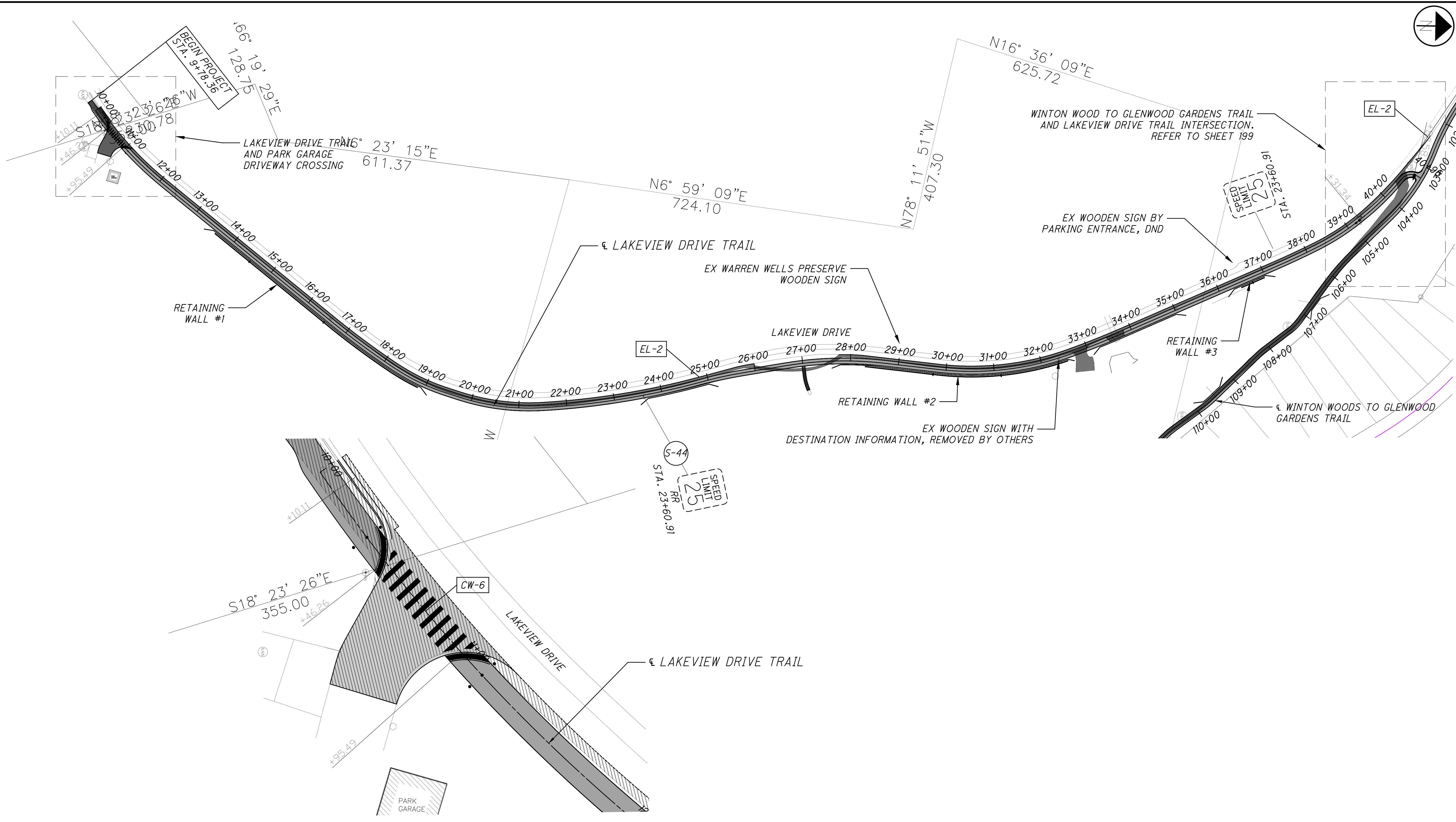
DESIGNER  
CDS

REVIEWER  
CFD

PROJECT ID  
03-28-24

PROJECT ID  
117016

SHEET TOTAL  
P.195 | 210



SIGN AND PAVEMENT PARKING PLAN  
LAKEVIEW DRIVE TRAIL

LAKEVIEW DRIVE TRAIL AND PARK GARAGE CROSSING  
SCALE 1"=20'

PAVEMENT MARKING LEGEND

- EL EDGE LINE, WHITE 6"
- CL CENTER LINE, SOLID YELLOW 4"
- SL STOP LINE
- CW CROSS WALK 24"

SIGN LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED AND RE-ERECTED ON NEW POST
- PROPOSED SIGN

NOTES

1. FOR CENTERLINE GEOMETRY, SEE SCHEMATIC PLAN SHEETS.
2. EXISTING SIGNS TO REMAIN ARE NOT TO BE DISTURBED.

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

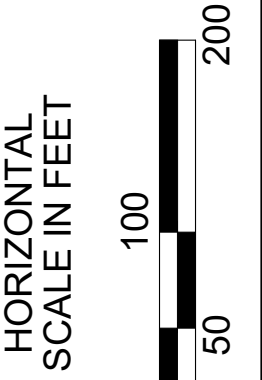
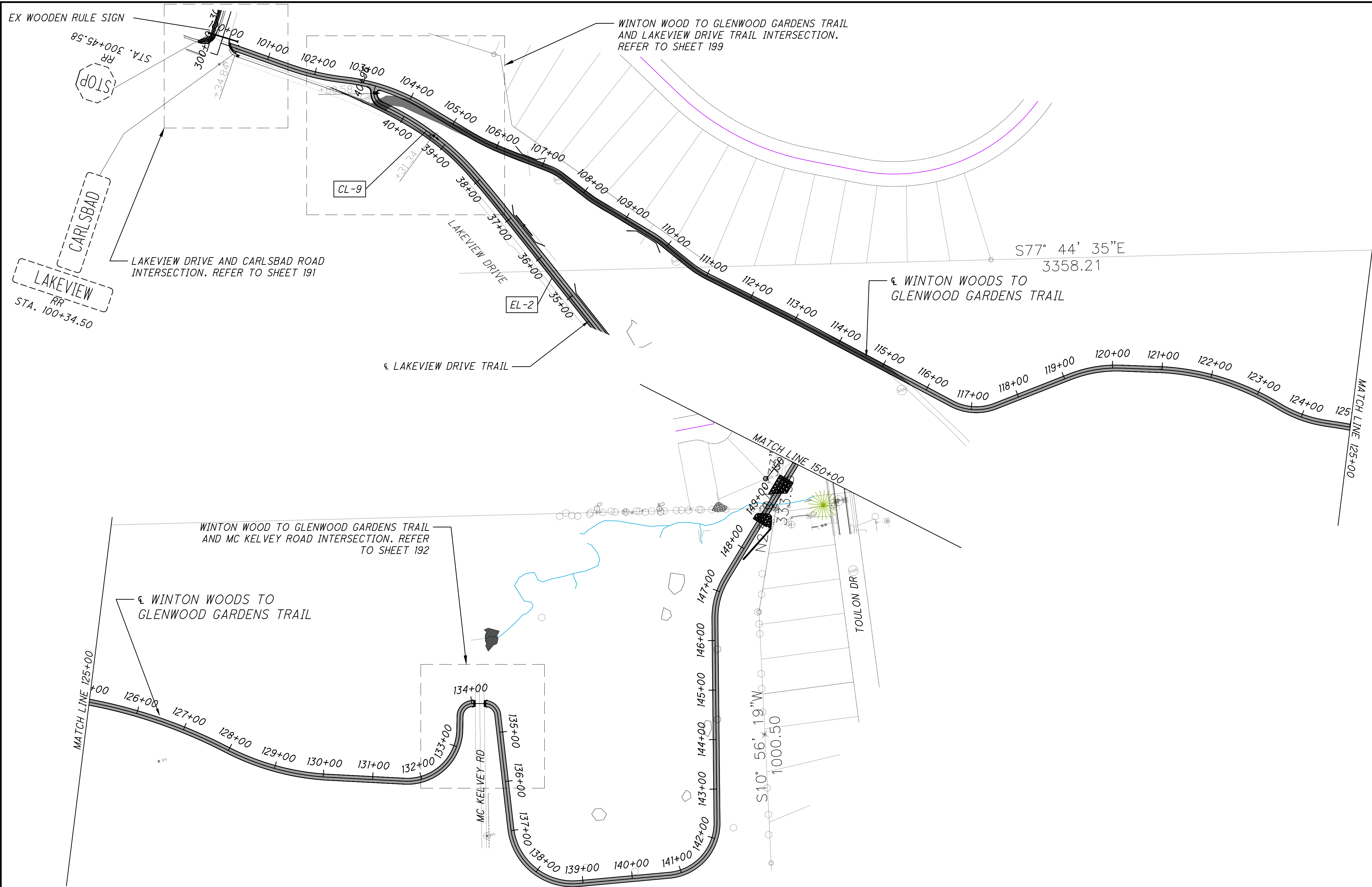
DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

PROJECT ID  
117016

SHEET TOTAL  
P.196 210





SIGN AND PAVEMENT PARKING PLAN  
WINTON WOODS TO GLENWOOD GARDENS TRAIL

PAVEMENT MARKING LEGEND

- EL EDGE LINE, WHITE 6"
- CL CENTER LINE, SOLID YELLOW 4"
- SL STOP LINE
- CW CROSS WALK 24"

SIGN LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED AND RE-ERECTED ON NEW POST
- RR
- PROPOSED SIGN

NOTES

1. FOR CENTERLINE GEOMETRY, SEE SCHEMATIC PLAN SHEETS.
2. EXISTING SIGNS TO REMAIN ARE NOT TO BE DISTURBED.

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

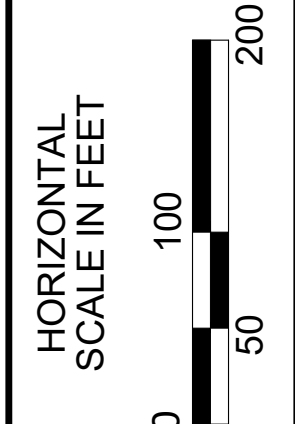
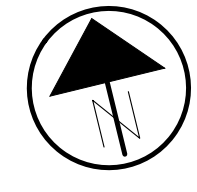
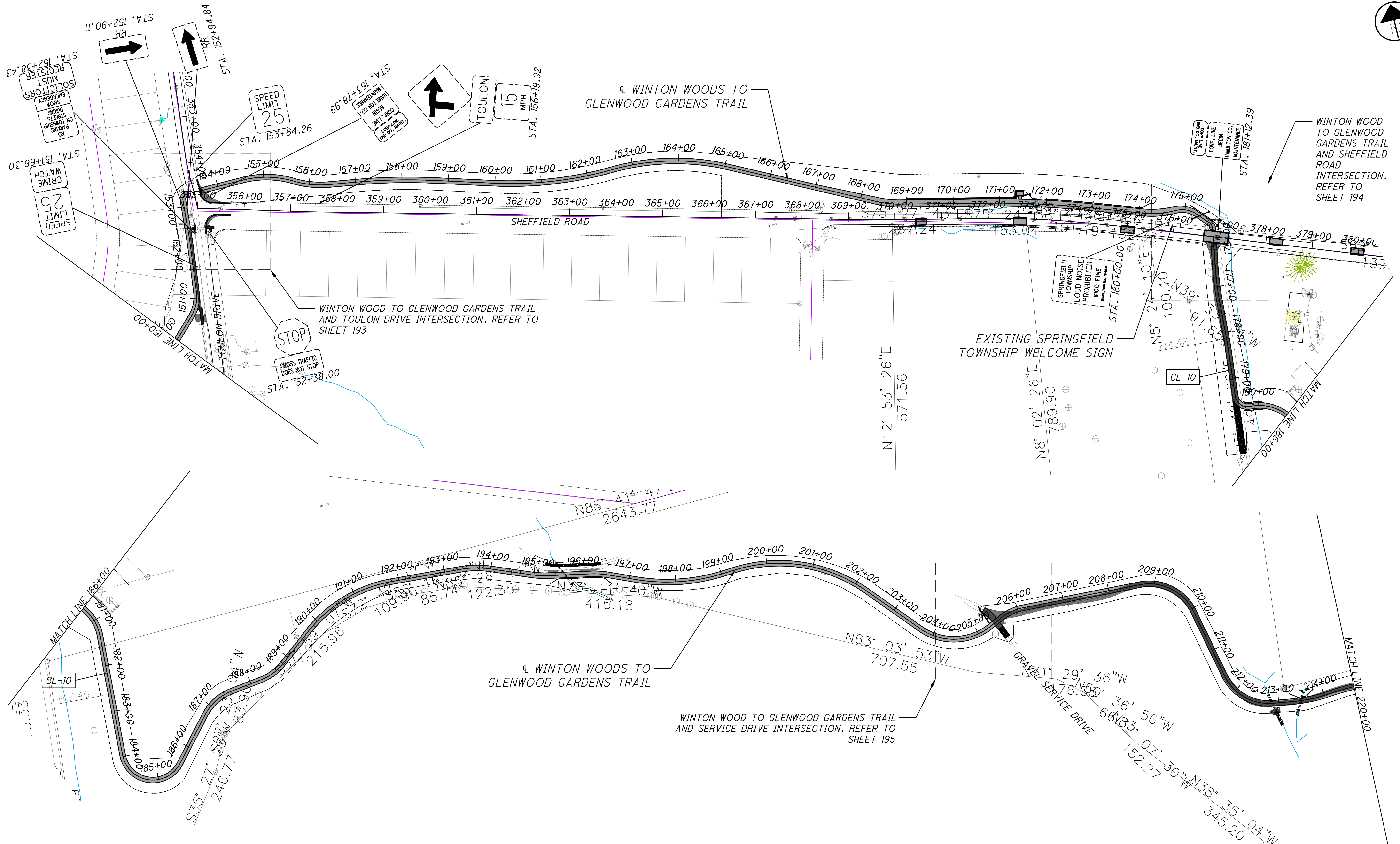
PROJECT ID  
117016

SHEET TOTAL  
P.197 210



HAM-WINTON WOODS TO GLENWOOD GARDENS

F:\Projects\686100\05\_Deliverables\Drawings\117016\Design\Traffic\Sheets\117016TP001.dwg



PAVEMENT MARKING LEGEND

EL	EDGE LINE, WHITE 6"
CL	CENTER LINE, SOLID YELLOW 4"
SL	STOP LINE
CW	CROSS WALK 24"

SIGN LEGEND

	EXISTING SIGN TO REMAIN		EXISTING SIGN TO BE REMOVED AND RE-ERECTED ON NEW POST
	PROPOSED SIGN		

NOTES

- FOR CENTERLINE GEOMETRY, SEE SCHEMATIC PLAN SHEETS.
- EXISTING SIGNS TO REMAIN ARE NOT TO BE DISTURBED.

DESIGN AGENCY



700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER  
SCR

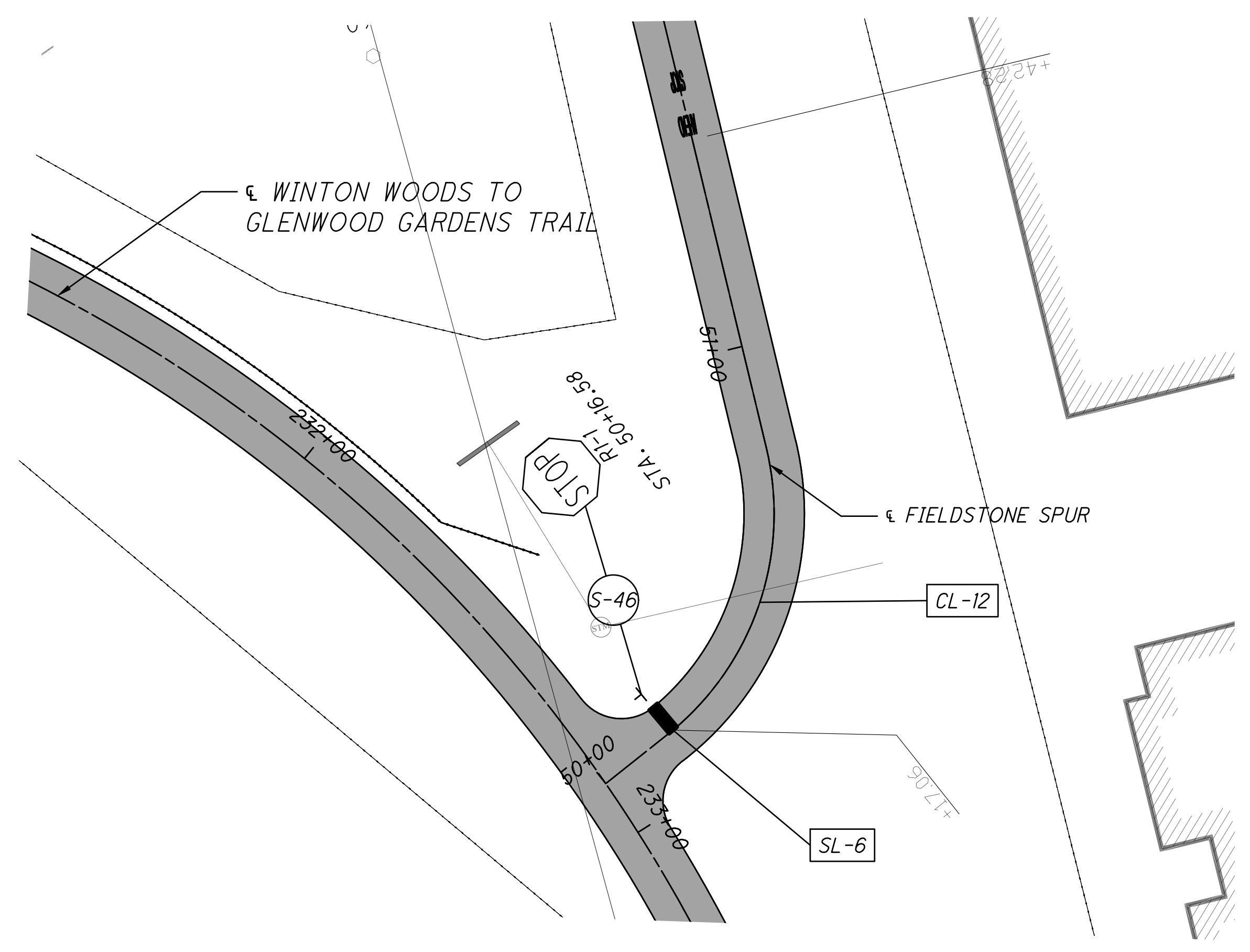
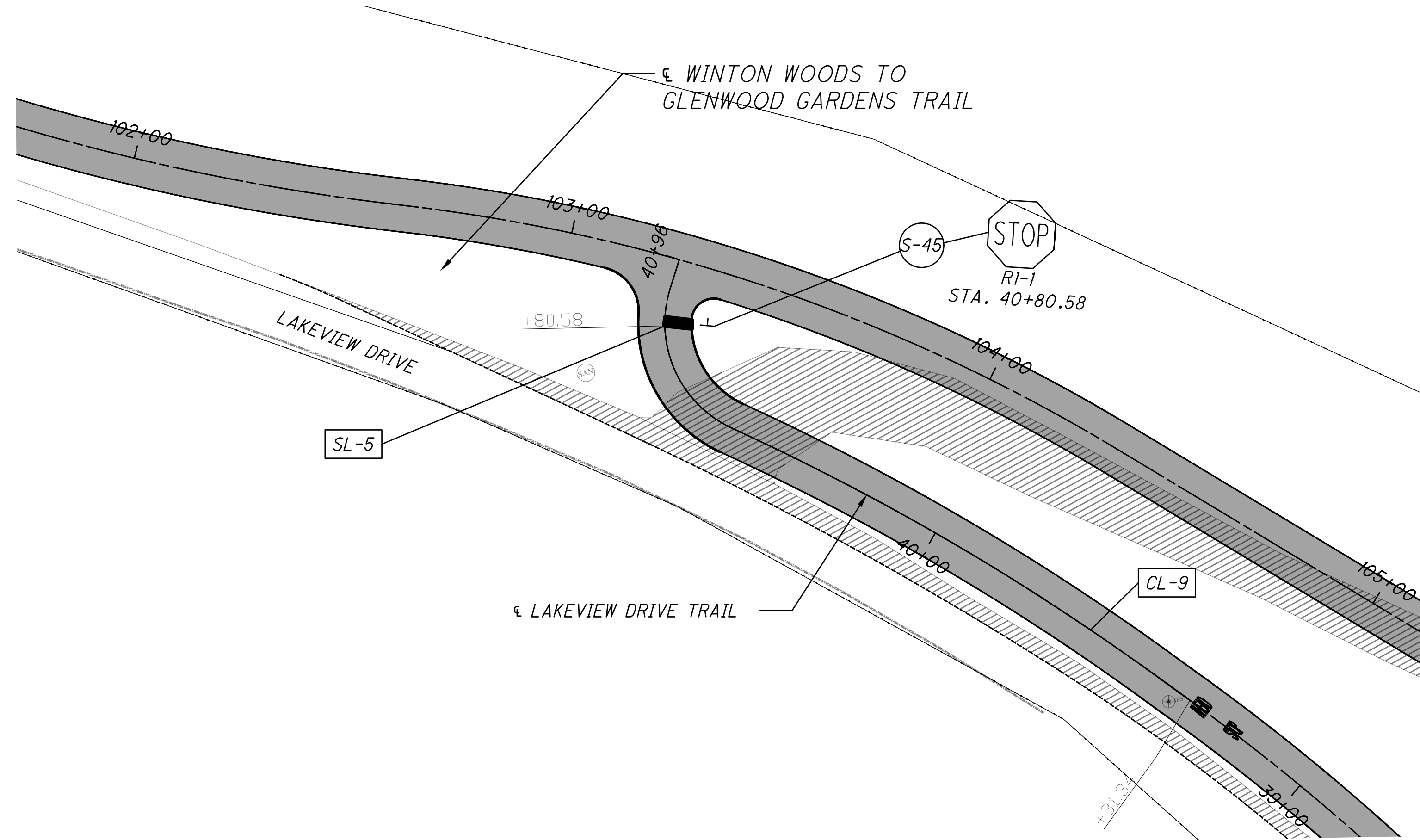
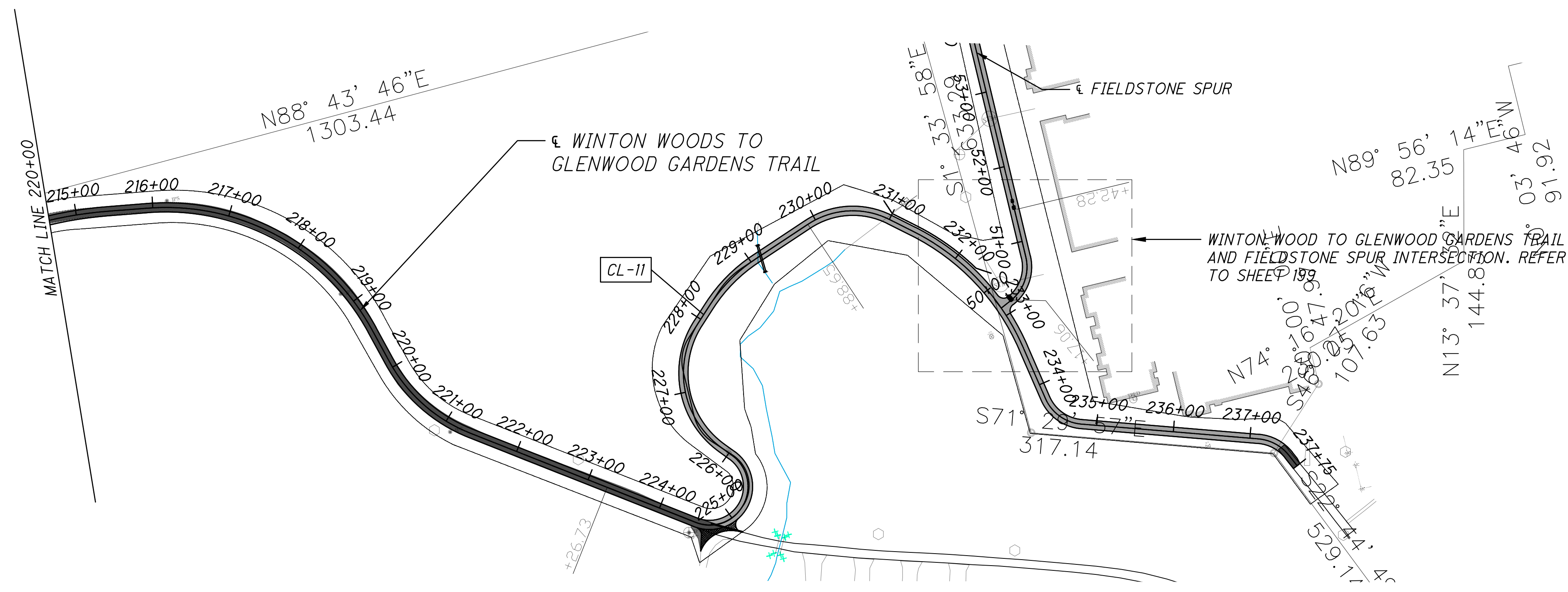
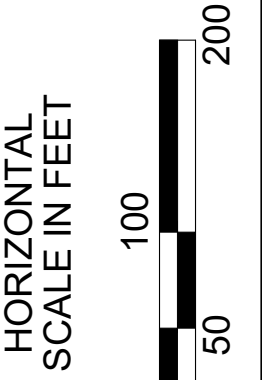
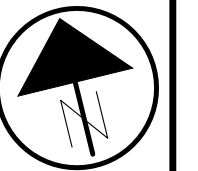
REVIEWER  
SCR 3/29/2024

PROJECT ID  
117016

SHEET TOTAL  
P.198 210

SIGN AND PAVEMENT PARKING PLAN  
WINTON WOODS TO GLENWOOD GARDENS TRAIL





WINTON WOODS TO GLENWOOD GARDENS TRAIL AND LAKEVIEW DRIVE TRAIL INTERSECTION  
SCALE 1"=20'

WINTON WOODS TO GLENWOOD GARDENS TRAIL AND FIELDSTONE SPUR INTERSECTION  
SCALE 1"=20'

PAVEMENT MARKING LEGEND

EL	EDGE LINE, WHITE 6"
CL	CENTER LINE, SOLID YELLOW 4"
SL	STOP LINE
CW	CROSS WALK 24"

SIGN LEGEND

	EXISTING SIGN TO REMAIN		EXISTING SIGN TO BE REMOVED AND RE-ERECTED ON NEW POST
	PROPOSED SIGN		

NOTES

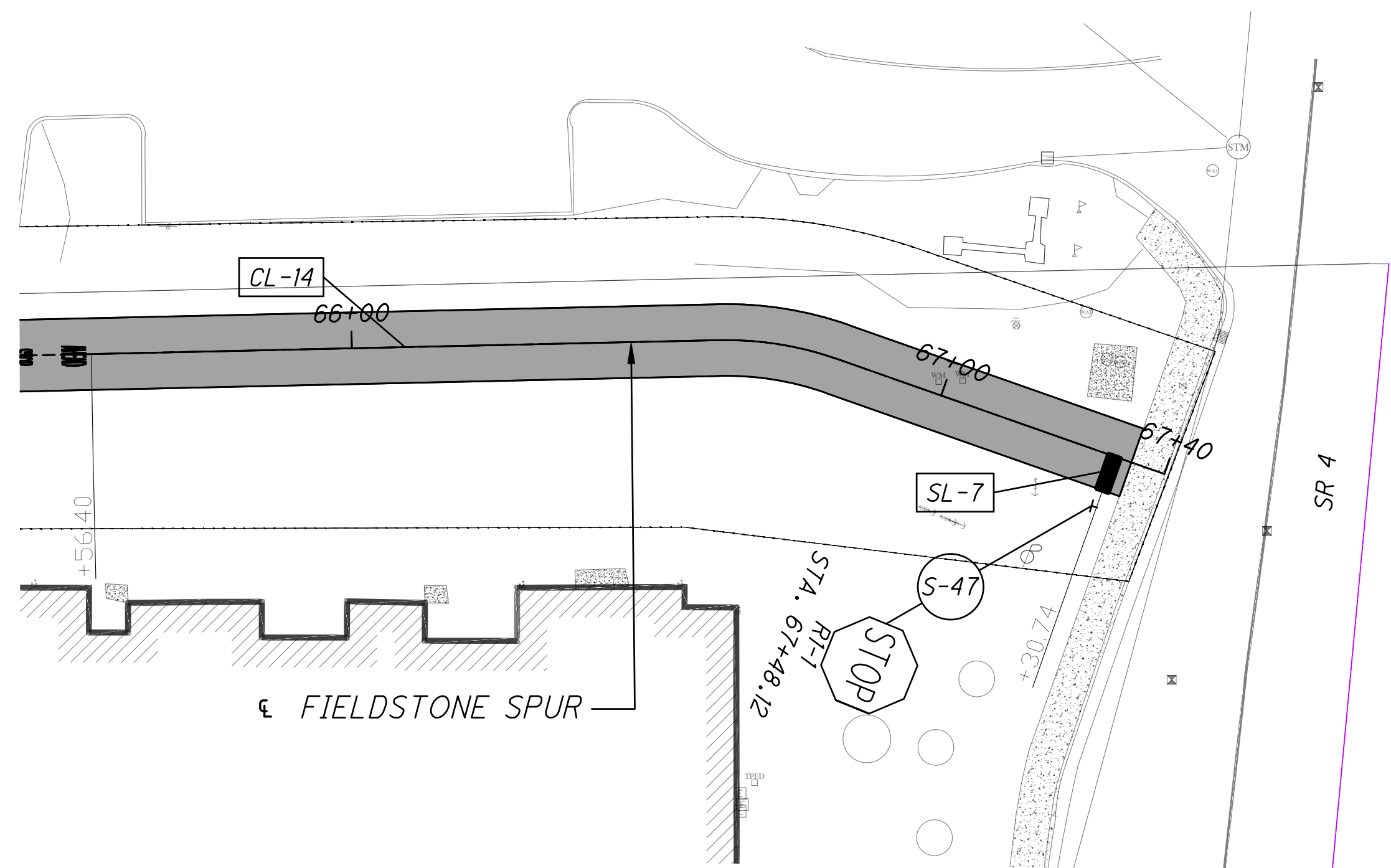
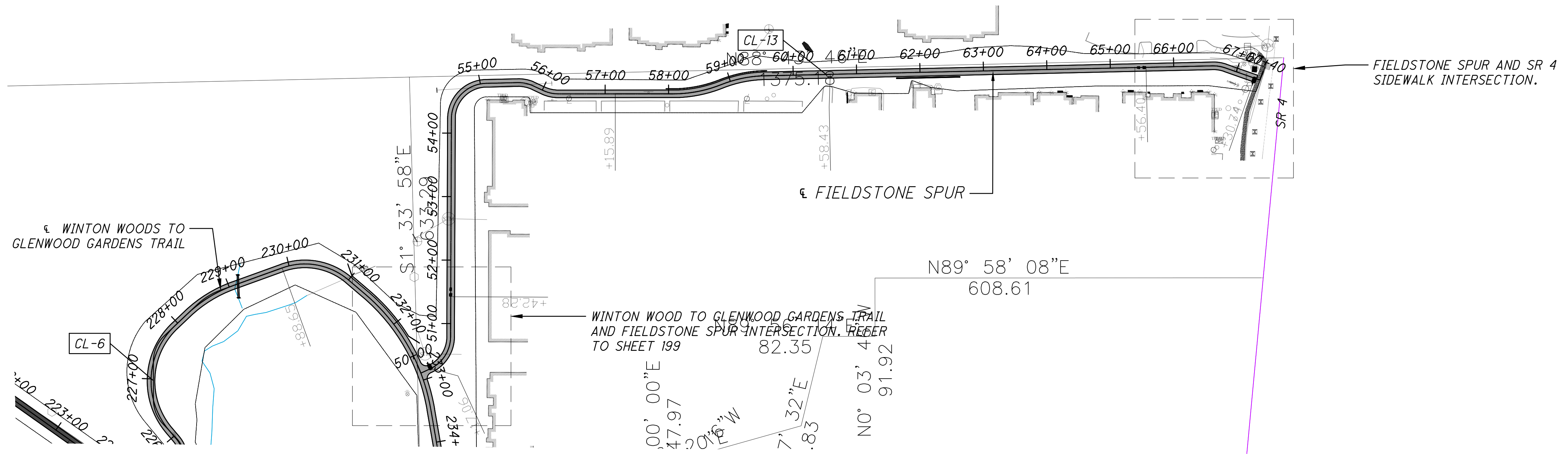
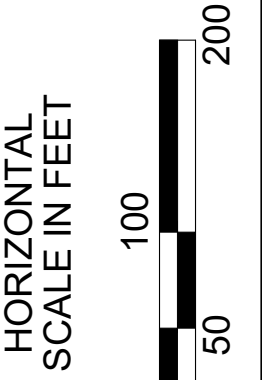
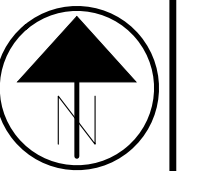
- FOR CENTERLINE GEOMETRY, SEE SCHEMATIC PLAN SHEETS.
- EXISTING SIGNS TO REMAIN ARE NOT TO BE DISTURBED.

SIGN AND PAVEMENT PARKING PLAN  
WINTON WOODS TO GLENWOOD GARDENS TRAIL

DESIGN AGENCY  
**KZF SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	TOTAL
P.199	210





FIELDSTONE SPUR AND SR 4 SIDEWALK INTERSECTION  
SCALE 1"=20'

PAVEMENT MARKING LEGEND

EL	EDGE LINE, WHITE 6"
CL	CENTER LINE, SOLID YELLOW 4"
SL	STOP LINE
CW	CROSS WALK 24"

SIGN LEGEND

	EXISTING SIGN TO REMAIN		EXISTING SIGN TO BE REMOVED AND RE-ERECTED ON NEW POST
	PROPOSED SIGN		

NOTES

- FOR CENTERLINE GEOMETRY, SEE SCHEMATIC PLAN SHEETS.
- EXISTING SIGNS TO REMAIN ARE NOT TO BE DISTURBED.

SIGN AND PAVEMENT PARKING PLAN  
FIELDSTONE SPUR

DESIGN AGENCY

**KZF SIG**  
Designing Better Futures  
700 Broadway Street  
Cincinnati, OH 45202-6010  
TEL 513 621 6211  
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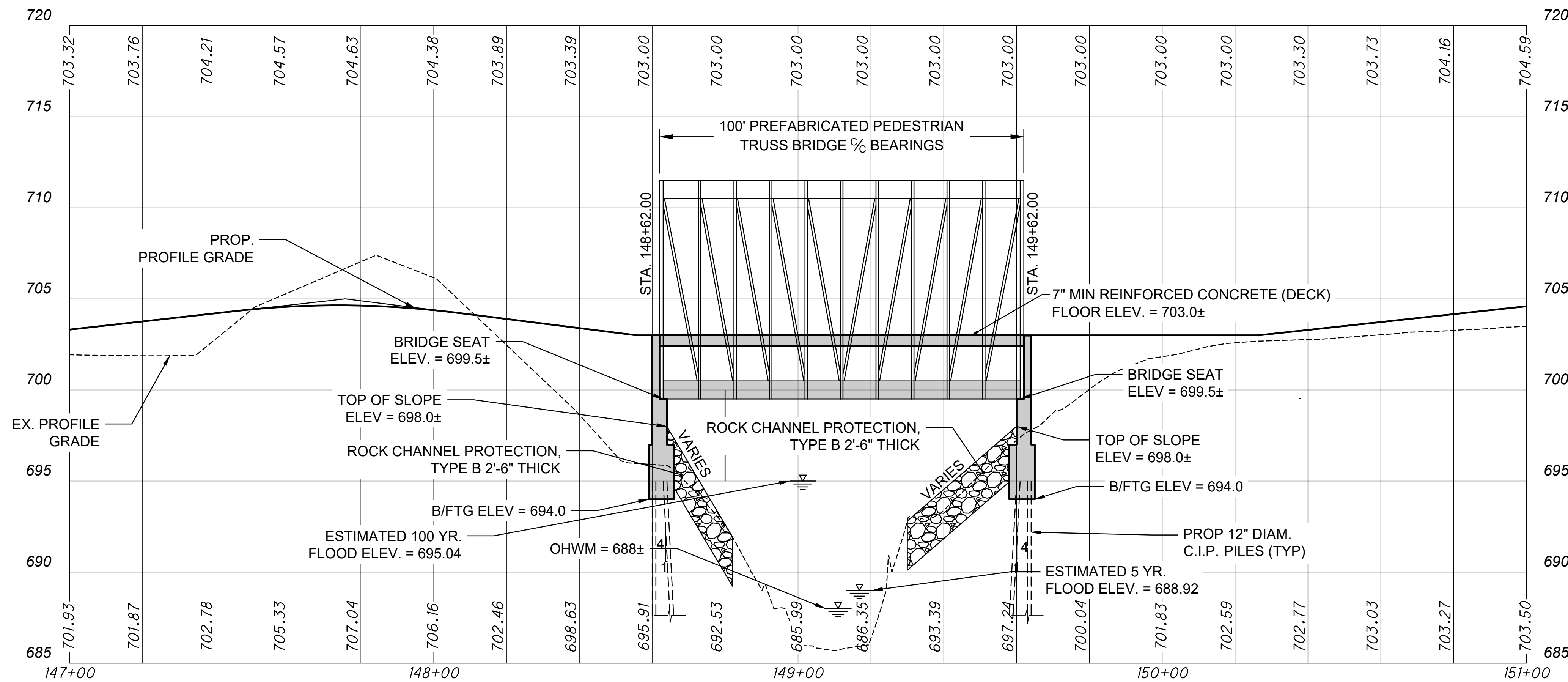
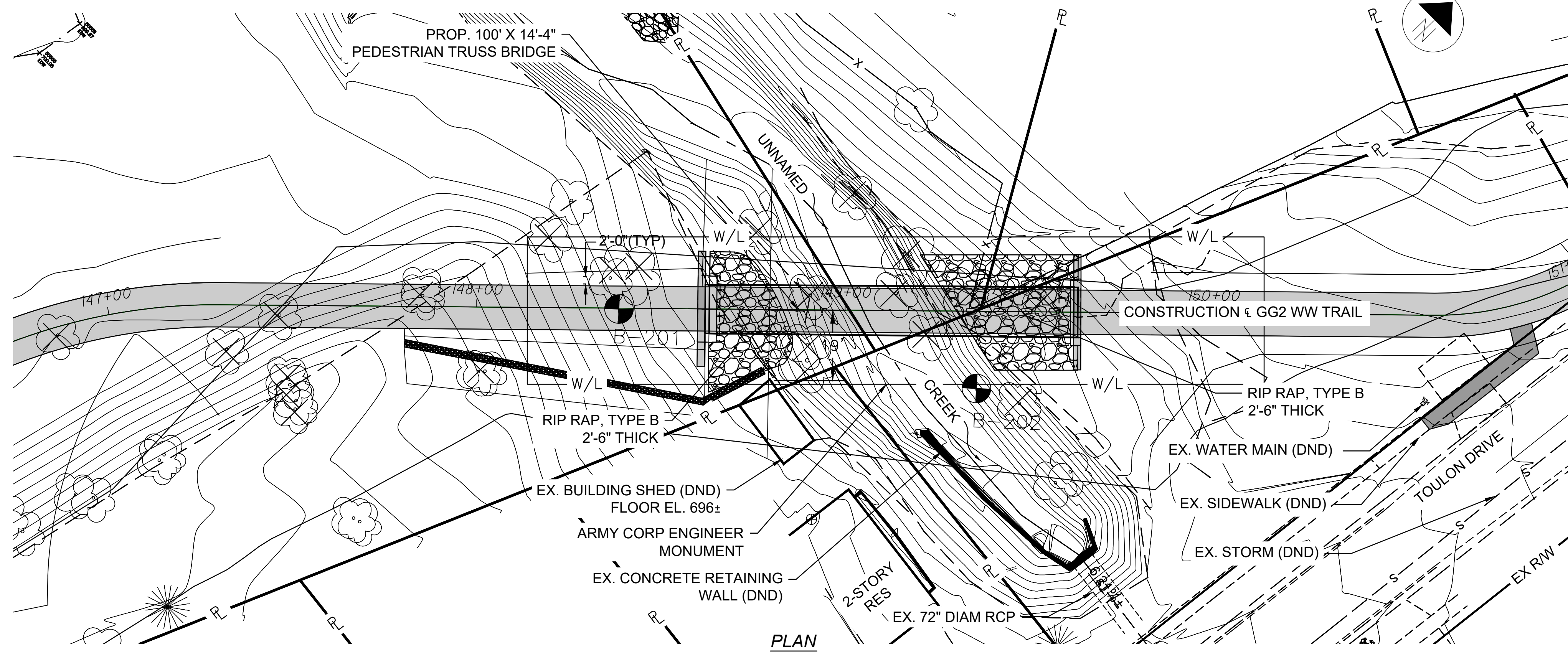
DESIGNER  
SCR

REVIEWER  
SCR 3/29/2024

PROJECT ID  
117016

SHEET	TOTAL
P.200	210





**BENCHMARK DATA**

BM#1 STA. ---	ELEV. ---	OFFSET ---
BM#2 STA. ---	ELEV. ---	OFFSET ---



**NOTES**

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. NOT ALL UTILITIES ARE SHOWN IN THE PROFILE. SEE ROADWAY CROSS SECTIONS FOR ALL UTILITIES IN THE AREA.

**LEGEND**

● BORING LOCATION

**HYDRAULIC DATA**

DRAINAGE AREA = 0.30 SQ. MILES  
 Q(5) = 137 CFS V(5) = 2.89 FPS  
 Q(100) = 381 CFS V(100) = 1.79 FPS

STRUCTURE CLEARS THE 5 YEAR DESIGN HW BY 10.53  
 AND CLEARS THE 100 YEAR DESIGN HW BY 4.46.

**PROPOSED STRUCTURE**

TYPE: SINGLE SPAN 100' X 14'-4" PREFABRICATED PEDESTRIAN TRUSS BRIDGE, (SELF WEATHERING STEEL)

SPANS: 100' C/C BEARINGS  
 ROADWAY: 14'-4"

LOADING: H-15

SKEW: NONE  
 APPROACH SLABS: NONE

ALIGNMENT: TANGENT

CROWN: 0.016 FT/FT  
 STRUCTURAL FILE NUMBER: TBD

DECK AREA: 1,430 SQ. FT

COORDINATES: LATITUDE 39°16'24.56"  
 LONGITUDE 84°12'48.59"

SITE PLAN  
CONTINENTAL PEDESTRIAN TRUSS BRIDGE  
OVER UNNAMED CREEK

DESIGN AGENCY	N/A
DESIGNER/CHECKER	AP LI
REVIEWER	AE/JC 03/27/24
PROJECT ID	117016
SUBSET	TOTAL
1	10
SHEET	TOTAL
201	210



**ITEM SPECIAL - STRUCTURE, MISC.: SINGLE SPAN 100'X14'-4" PREFABRICATED PEDESTRIAN TRUSS BRIDGE (SELF-WEATHERING STEEL)**

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:  
EXJ-2-81 07/15/22

**1.0 GENERAL**

- A. THESE SPECIFICATIONS ARE FOR A FULLY ENGINEERED CLEAR SPAN BRIDGE OF WELDED STEEL CONSTRUCTION AND SHALL BE REGARDED AS MINIMUM STANDARDS FOR DESIGN AND CONSTRUCTION.
- B. THE BRIDGE MANUFACTURER SHALL HAVE BEEN IN THE BUSINESS OF DESIGN AND FABRICATION OF BRIDGES FOR A MINIMUM OF FIVE YEARS AND PROVIDE A LIST OF FIVE SUCCESSFUL BRIDGE PROJECTS, OF SIMILAR CONSTRUCTION, EACH OF WHICH HAS BEEN IN SERVICE A LEAST FIVE YEARS.
- C. THE BRIDGE MANUFACTURER SHALL BE THE DESIGNER AND FABRICATOR OF THE BRIDGE AND SHALL NOT ASSIGN, SUBLET, OR SUBCONTRACT ANY PART OF THE BRIDGE FABRICATION. TWO REGISTERED PROFESSIONAL ENGINEERS, CURRENTLY LICENSED TO PRACTICE IN THE STATE OF OHIO, SHALL CERTIFY THE BRIDGE DESIGN AND FABRICATION.
- D. THE CONTRACTOR SHALL ONLY UTILIZE A BRIDGE MANUFACTURER ON THE ODOT APPROVED LIST PRIOR TO BID. ALL FABRICATION SHALL BE DONE AT AN ODOT TEST LEVEL 6 CERTIFIED SHOP.

**1.1 DIMENSIONS**

- A. WIDTH: INSIDE CLEAR WIDTH OF BRIDGE SHALL BE 14 FEET, 4 INCHES
- B. LENGTH: BRIDGE CENTER TO CENTER BEARING LENGTH IS TO BE 100 FEET, 0 INCHES
- C. MINIMUM VERTICAL CLEARANCE ABOVE BRIDGE DECK SHALL BE 8 FEET, 6 INCHES

**1.2 DESIGN SPECIFICATIONS**

- A. MATERIALS (UNLESS NOTED OTHERWISE):
- B. STRUCTURAL STEEL:
  - 1. HSS SECTIONS: ASTM A847 WEATHERING STEEL
  - 2. SHAPES & PLATES: ASTM A588 WEATHERING STEEL
  - 3. ROLL FORM: A606 WEATHERING STEEL
- C. STRUCTURAL BOLTS: ASTM F3125 GRADE A525 U.N.O TYPE 3 (WEATHERING).
- D. RUB RAIL: NATURALLY DURABLE IPE (TABEUIA SPP LAPACHO GROUP), FEQ GRADE.
- E. FENCE: 2" VINYL COATED 9 GA. COLOR TO BE BLACK OR BROWN AS DETERMINED BY OWNER.
- F. BEARING DEVICES SHALL BE ELASTOMERIC.

**1.3 DESIGN LOAD**

- A. BRIDGE DESIGN IS BASED ON LOAD COMBINATIONS IN ACCORDANCE WITH AASHTO OF THE FOLLOWING LOADS
  - 1. BRIDGE DEAD LOAD.
  - 2. UNIFORM PEDESTRIAN LIVE LOAD OF 90 PSF.
  - 3. VEHICLE LIVE LOAD: H-15 TRUCK (30,000 LBS).
  - 4. WIND LOADING PER LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS. 1ST EDITION, 2015 SECTION 3.8.
    - a. DESIGN WIND SPEED: 115 MPH
    - b. SERVICE WIND SPEED: 76 MPH
    - c. EXPOSURE CATEGORY: C
- B. BRIDGE TO BE BUILT TO THE REQUIREMENTS OF AWS D1.1.
- C. ALL SHOP WELDING SHALL USE THE GAS METAL ARC

WELDING OR FLUX CORED ARC WELDING PROCESS.

- D. FINISH: ALL EXPOSED SURFACES OF WEATHERING STEEL TO BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATIONS NO. 7. SSPC-SP7 BRUSH-OFF BLAST CLEANING. EXPOSED SURFACES OF STEEL SHALL BE DEFINED AS THOSE SURFACES SEEN FROM THE DECK OR FROM THE OUTSIDE OF THE STRUCTURE. FLOOR BEAMS, BRACE DIAGONALS AND INSIDE OF SIDE DAM WILL NOT BE BLAST CLEANED.
- E. ALL BOLTED CONNECTIONS ARE CONSIDERED TO BE PRETENSIONED OR SLIP-CRITICAL CONNECTIONS. ALL BOLTS ARE TO BE PRETENSIONED PER THE REQUIREMENTS OF SECTION 8.2 OF THE SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS BY RCSC.
- F. ALL STRUCTURAL BOLTS, NUTS AND WASHERS SHALL BE FURNISHED IN THE AMOUNT OF 5% OR QUANTITY OF 10 (WHICHEVER IS GREATER) IN EXCESS OF THE NUMBER REQUIRED FOR EACH SIZE AND LENGTH.
- G. IF BOLTS DO NOT SMOOTHLY ENGAGE UP TO SNUG-TIGHT, THERE MAY BE AN OBSTRUCTION WITHIN THE THREADS. THE BOLTS SHOULD BE REMOVED, THE THREADS ON THE BOLTS AND NUT CLEANED AND RETAPPED IF NECESSARY TO ALLOW SMOOTH INSTALLATION OF THE BOLT. ( IF APPLICABLE).
- H. MAINTENANCE NOTE: CONTECH ENGINEERED SOLUTIONS RECOMMENDS NOT APPLYING DE-ICING OR DUST PROHIBITIVE CHEMICALS OR SALTS TO ANY PART OF THE BRIDGE STRUCTURE. IF DE-ICING OR DUST PROHIBITIVE CHEMICALS OR SALTS ARE APPLIED TO ANY PART OF THE BRIDGE STRUCTURE, CONTECH ENGINEERED SOLUTIONS WILL NOT BE RESPONSIBLE FOR ANY RESULTANT ACCELERATED CORROSION.
- I. SHOP SPLICES:
  - 1. ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS.
  - 2. ALL HORIZONTAL RAIL COMPONENT SPLICES TO BE LOCATED AT THE CENTERLINE OF VERTICALS, EACH END WELDED TO THE VERTICAL AND SEAL WELDED TOGETHER. SEAL WELDS TO BE GROUND SMOOTH AND VISUAL INSPECTION ONLY REQUIRED.

**1.4 DECK & CONCRETE NOTES**

- A. GALVANIZED FORM DECK SHALL BE 3", 18 GA. (MINIMUM), G90 MINIMUM COATING. FORM DECK SHALL SPAN A MINIMUM OF 2 SPANS AND SHALL BE TIGHT FITTING WITH A GAP NO LONGER THAN 1/4" IN ANY DIRECTION. FORM DECK WILL BE SHOP ATTACHED TO FLOOR BEAMS WITH #12-24 X 1-1/4" SELF DRILLING FASTENERS WITH 1" O.D. WASHERS, 1" x 3/16" POWER ACTUATED FASTENERS, OR 5/8" PUDDLE WELDS. FORM DECK OVER SPLICE LOCATIONS WILL BE SHIPPED LOOSE AND FIELD ATTACHED AS SPECIFIED FOR SHOP ATTACHMENTS. BOTTOM SIDE OF FORM DECK SHALL NOT BE PAINTED.
- B. BEARING DEVICES SHALL BE ELASTOMERIC BEARING IN ACCORDANCE WITH ODOT SPECIFICATION SECTION 516.
- C. PREFABRICATED BRIDGE MANUFACTURER SHALL PROVIDE RAILING ON THE BRIDGE.
- D. CONTECH ENGINEERED SOLUTIONS IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE CONCRETE DECK. ALL ISSUES RELATED TO MATERIAL SUPPLY, TESTING AND INSTALLATION IS OUTSIDE OF CONTECH ENGINEERED SOLUTIONS RESPONSIBILITY.
- E. CONCRETE MIX DESIGN, MATERIALS, MIXING, PLACEMENT, FINISHING AND TESTING SHALL BE IN ACCORDANCE WITH THE PROJECT CONTRACT DOCUMENTS.
- F. MINIMUM MATERIAL REQUIREMENTS:
  - 1. CONCRETE:
    - a. COMPRESSIVE STRENGTH  $f_c = 4,500$  PSI

- b. AIR CONTENT OF 5% ± 1%
- c. UNIT WEIGHT OF 145 PCF MAX
- 2. REINFORCING STEEL:
  - a. ASTM A615 OR AASHTO M31 GRADE 60

G. THE USE OF EPOXY COATED REBAR, GALVANIZED REBAR, DECK SEALERS OR ANY OTHER FORM OF PROTECTION OF THE REBAR SHALL BE DONE AS NEEDED FOR LOCAL CONDITIONS OR AS REQUIRED PER THE PROJECT CONTRACT DOCUMENTS AND IS NOT THE RESPONSIBILITY OF CONTECH ENGINEERED SOLUTIONS.

H. THE CONTRACTOR MUST EXERCISE CARE TO CONTROL TRAFFIC AND STORAGE OF MATERIALS ON THE FORM DECK BEFORE CONCRETE IS PLACED.

I. LONGITUDINAL BARS MAY BE SPLICED IF REQUIRED. SPLICES SHALL BE STAGGERED EVERY OTHER LONGITUDINAL BAR. SPLICES SHALL BE LOCATED AT OR NEAR THE 1/3 POINT OF THE BAY SPANS FROM FLOOR BEAM TO FLOOR BEAM. REQUIRED SPLICE LENGTHS ARE AS FOLLOWS:

BAR SIZE	HOOK LENGTH	SPLICE LENGTH
#4	6"	27"
#5	7"	35"
#6	8"	41"
#7	10"	52"

J. THE USE OF GROOVED CONTROL JOINTS SHALL BE PUT IN PER THE PROJECT CONTRACT DOCUMENTS OR AT THE DISCRETION OF THE ENGINEER AND OWNER. IF CONTRACTOR JOINTS ARE USED, THEY SHALL BE PLACED OVER THE CENTERLINE OF THE FLOOR BEAMS AS NEEDED.

K. DECK PROTECTION:

- 1. CLASS QC1 CONCRETE (ABUTMENT).
- 2. EPOXY COATED REINFORCING STEEL.
- 3. 2-1/2" CONCRETE COVER.

**1.5 QUALITY ASSURANCE NOTES**

A. ALL WELDS SHALL BE VISUALLY INSPECTED I.A.W. AWS SPECIFICATION BY AN AWS CERTIFIED WELDING INSPECTOR(CWI).

**1.6 FABRICATION & QUALITY CONTROL**

- A. BRIDGE FABRICATOR SHALL BE CERTIFIED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION TO HAVE THE PERSONNEL, ORGANIZATION, EXPERIENCE, CAPABILITY, AND COMMITMENT TO PRODUCE FABRICATED STRUCTURAL STEEL FOR MAJOR STEEL BRIDGE STRUCTURES WITH SOPHISTICATED PAINT ENDORSEMENT AS SET FORTH IN THE AISC CERTIFICATION PROGRAM. FABRICATOR SHALL BE AN ODOT LEVEL 6 QUALIFIED FABRICATOR AS PER ODOT CMS 513.
- B. WORKMANSHIP, FABRICATION, AND SHOP DESIGN SHALL BE IN ACCORDANCE WITH AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS SPECIFICATIONS (AASHTO).
- C. A MEMBER OF THE STEEL DECK INSTITUTE SHALL MANUFACTURE THE TRAIL FLOOR DECK OR HAVE THEIR DECK PROPERTIES CERTIFIED BY THE STEEL DECK INSTITUTE.

**1.7 DELIVERY & ERECTION**

- A. BRIDGES WILL BE DELIVERED BY TRUCK TO A LOCATION NEAREST TO THE SITE ACCESSIBLE BY ROADS. HAULING PERMITS AND FREIGHT CHARGES ARE THE RESPONSIBILITY OF THE MANUFACTURER OR CONTRACTOR.
- B. THE MANUFACTURER SHALL NOTIFY THE CUSTOMER IN ADVANCE OF THE EXPECTED ARRIVAL TIME. THE COST OF THE TRANSPORTATION OF THE PREFABRICATED BRIDGE TO THE SITE AND ANY COST RELATED TO THE ESCORTED SERVICES SHALL BE INCLUDED.

C. THE MANUFACTURER SHOULD ADVISE THE CONTRACTOR OF THE ACTUAL LIFTING WEIGHTS, ATTACHMENT POINTS AND ALL NECESSARY INFORMATION TO INSTALL THE BRIDGE. UNLOADING, SPLICING, BOLTING, AND PROPER LIFTING EQUIPMENT IS THE RESPONSIBILITY OF CONTRACTOR.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE ANCHOR BOLTS IN ACCORDANCE WITH THE MANUFACTURE'S ANCHOR BOLT SPACING DIMENSIONS.

E. ALL GROUNDING AND LIGHTING PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

F. THE SHOP DRAWINGS FOR DESIGN AND CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH ODOT SPECIFICATION SECTION 501.04.

G. CERTIFIED TEST REPORTS FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH ODOT SPECIFICATION SECTION 501.06

H. BEARINGS AND BEARING PLATES, ANCHOR BOLTS AND EXPANSION JOINTS SHALL BE FURNISHED BY THE BRIDGE MANUFACTURER AND INCORPORATED INTO ABUTMENT AND BACKWALL BY THE CONTRACTOR.

**1.8 SUCCESSFUL BIDDER**

- A. SUCCESSFUL BIDDER TO FURNISH COMPLETE SETS OF SHOP DRAWINGS AND CALCULATIONS FOR SUPERSTRUCTURE WITHIN 6-8 WEEKS AFTER THE AWARD OF THE CONTRACTOR.
- B. ERECTION PLANS AND ANY ASSEMBLY MANUAL SHOULD ACCOMPANY SHOP DRAWINGS.
- C. TRUSS BRIDGE SUPPLIER TO PROVIDE TECHNICAL ASSISTANCE (A REPRESENTATIVE AT THE JOBSITE) WHILE TRUSSES ARE BEING ERECTED. CONTRACTOR TO MAKE ARRANGEMENTS IN ADVANCE WITH THE TRUSS SUPPLIER.

**1.9 METHOD OF MEASUREMENT**

A. THE PRE-FABRICATED BRIDGE SHALL BE PAID FOR ON A LUMP SUM BASIS, COMPLETE IN PLACE, INCLUDING ERECTION, TECHNICAL ASSISTANCE AT JOB SITE AND ALL APPURTENANCES.

**1.10 ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN**

- A. BACKFILL ADJACENT TO ABUTMENT WALLS SHALL BE NATURAL SOIL MATERIAL AS DEFINED IN 203.02.1 AND CONFORM TO ODOT SOIL CLASSIFICATIONS A-6a, A-6b OR A-7-6, MODIFIED TO REQUIRE AT LEAST 65% PASSING THE NO. 200 SIEVE.
- B. PLACE BACKFILL IN BRIDGE ABUTMENT AREAS IN 4-INCH LIFTS AND COMPACT BY HAND-OPERATED NON-VIBRATORY TAMPING ROLLERS TO NOT LESS THAN 98% OF THE MAXIMUM LABORATORY DRY DENSITY DETERMINED IN ACCORDANCE WITH AASHTO T-99, METHOD C.

SFN

N/A

DESIGN AGENCY



RIBWAY ENGINEERING GROUP, INC.  
300 E. BROAD ST.  
SUITE 500  
COLUMBUS, OHIO 43215  
PH. NO. (614) 221-6009  
FAX NO. (614) 221-9089

DESIGNER/CHECKER

AP LI

REVIEWER

AE/JC 03/27/24

PROJECT ID

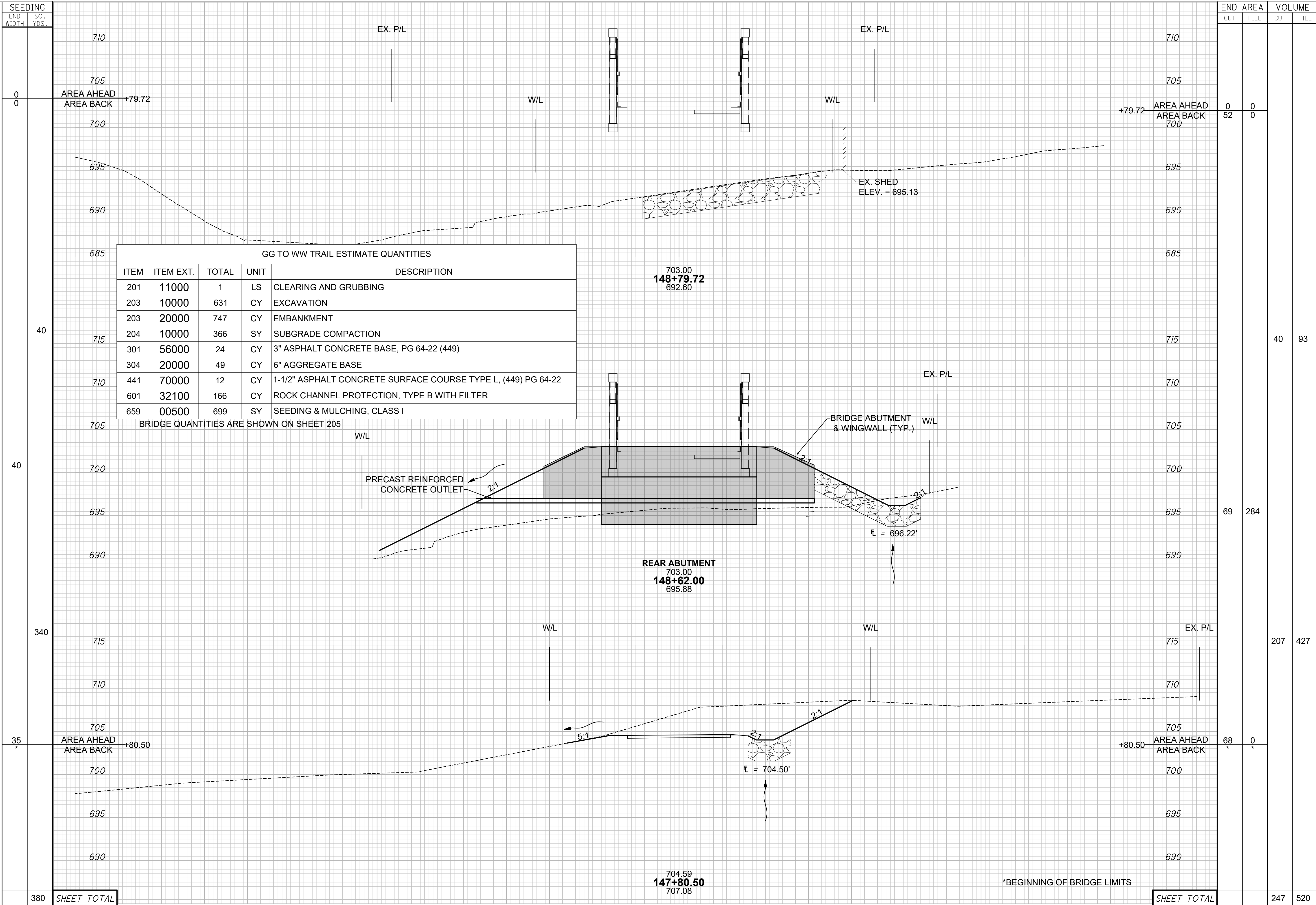
117016

SUBSET TOTAL

2 10

SHEET TOTAL

202 210



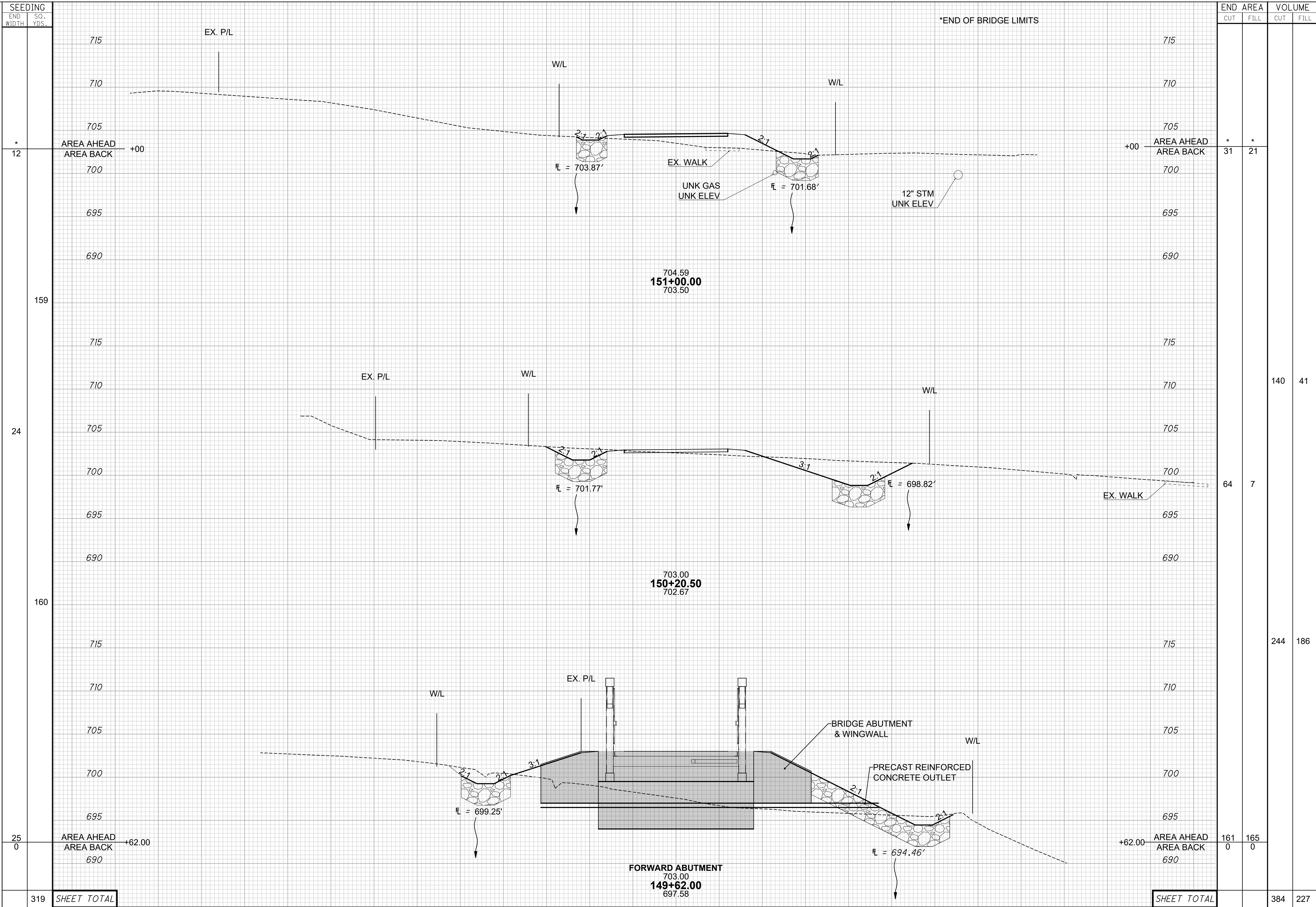
CROSS SECTION - STA. 147+80.50 TO STA. 148+79.72  
 CONTINENTAL PEDESTRIAN TRUSS BRIDGE  
 OVER UNNAMED CREEK

SFN	N/A
DESIGN AGENCY	
DESIGNER	AP
CHECKER	LI
REVIEWER	AE/JC 03/27/24
PROJECT ID	117016
SUBSET	3
TOTAL	10
SHEET	203
TOTAL	210

SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
0	0	0	0	0
40	0	0	40	93
40	69	284		
340	207	427		
35	68	0		
<b>SHEET TOTAL</b>			247	520

\*BEGINNING OF BRIDGE LIMITS





\*END OF BRIDGE LIMITS

STATION	SEEDING		END AREA		VOLUME	
	END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
12			31	21		
24			64	7	140	41
160					244	186
250			161	165		
319	<b>SHEET TOTAL</b>				384	227


CROSS SECTION - STA. 149+62.00 TO STA. 151+00.00  
 CONTINENTAL PEDESTRIAN TRUSS BRIDGE  
 OVER UNNAMED CREEK

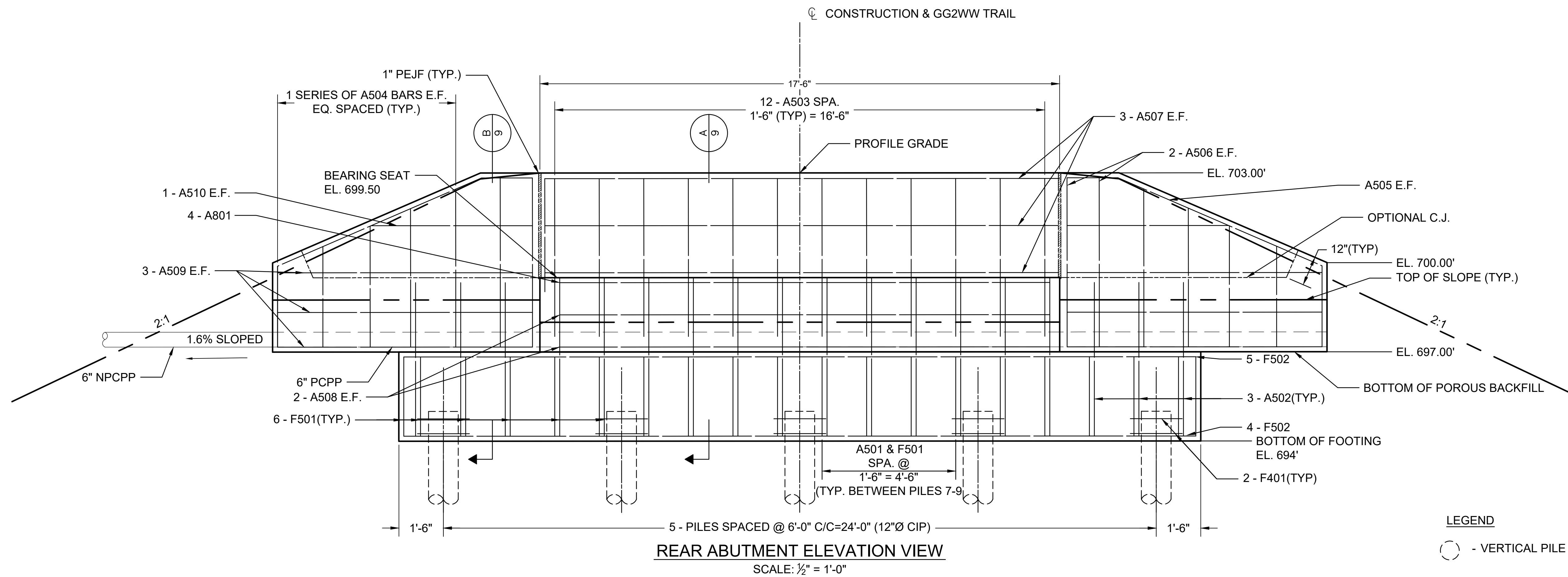
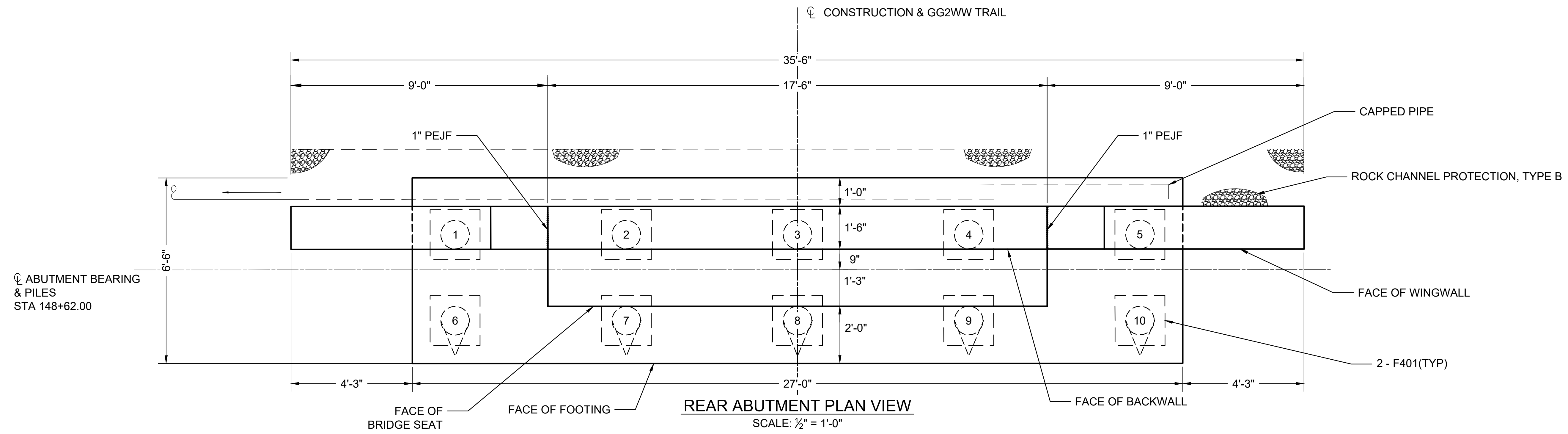
SFN  
 N/A  
 DESIGN AGENCY  
  
 RIBWAY ENGINEERING GROUP, INC.  
 300 E. BROAD ST.  
 SUITE 500  
 COLUMBUS, OHIO 43215  
 PH. NO. (614) 221-6009  
 FAX NO. (614) 221-9089  
 DESIGNER: AP  
 CHECKER: LI  
 REVIEWER: AE/JC  
 PROJECT ID: 117016  
 SUBSET: 4  
 TOTAL: 10  
 SHEET: 204  
 TOTAL: 210

**BRIDGE ESTIMATED QUANTITIES**

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	SUPER.	REAR ABUT.	FWD. ABUT.	ENTIRE PROJECT	GENERAL	SEE SHEET NO.
503	21101	49	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN		11	38			2/10
505	11100	1	LS	PILE DRIVING EQUIPMENT MOBILIZATION				1		
507	00500	1400	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		700	700			
507	00550	1500	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		750	750			
509	10000	14000	LB	EPOXY COATED REINFORCING STEEL		7000	7000			
511	34444	31	CY	CLASS QC2 CONCRETE, BRIDGE DECK (T = 7" MINIMUM THICKNESS)	31					
511	43510	58	CY	CLASS QC1 CONCRETE, ABUTMENT (INCLUDING FOOTING & WINGWALLS)		29	29			
512	10050	26	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)		13	13			
516	10500	35	FT	STRUCTURAL STEEL JOINT AND ELASTOMERIC COMPRESSION SEAL		17.5	17.5			
516	13600	21	SF	1" PREFORMED EXPANSION JOINT FILLER		10.5	10.5			
518	21200	86	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		43	43			
518	40000	71	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		35.5	35.5			
518	40010	16	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		8	8			
530	00200	1	LS	SPECIAL-STRUCTURE, MISC (SINGLE SPAN 100' X 14'-4" PREFABRICATED PEDESTRIAN TRUSS BRIDGE)	1					
				SELF-WEATHERING STEEL						
601	32100	147	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER		92	55			
611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET				2		
625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM				1		

BRIDGE ESTIMATED QUANTITIES  
CONTINENTAL PEDESTRIAN TRUSS BRIDGE  
OVER UNNAMED CREEK

SFN	N/A
DESIGN AGENCY	
<small>RIBWAY ENGINEERING GROUP, INC. 300 E. BROAD ST. SUITE 500 COLUMBUS, OHIO 43215 PH. NO. (614) 221-6009 FAX NO. (614) 221-9089</small>	
DESIGNER	CHECKER
AP	LI
REVIEWER	
AE/JC 03/27/24	
PROJECT ID	117016
SUBSET	TOTAL
5	10
SHEET	TOTAL
205	210



LEGEND

- VERTICAL PILE
- BATTERED PILE IN THE DIRECTION OF ARROW (4:1 BATTER)

REAR ABUTMENT DETAIL  
 CONTINENTAL PEDESTRIAN TRUSS BRIDGE  
 OVER UNNAMED CREEK

SFN

N/A

DESIGN AGENCY



RIBWAY ENGINEERING GROUP, INC.  
 300 E. BROAD ST.  
 SUITE 500  
 COLUMBUS, OHIO 43215  
 PH. NO. (614) 221-6009  
 FAX NO. (614) 221-9089

DESIGNER/CHECKER

AP LI

REVIEWER

AE/JC 03/27/24

PROJECT ID

117016

SUBSET TOTAL

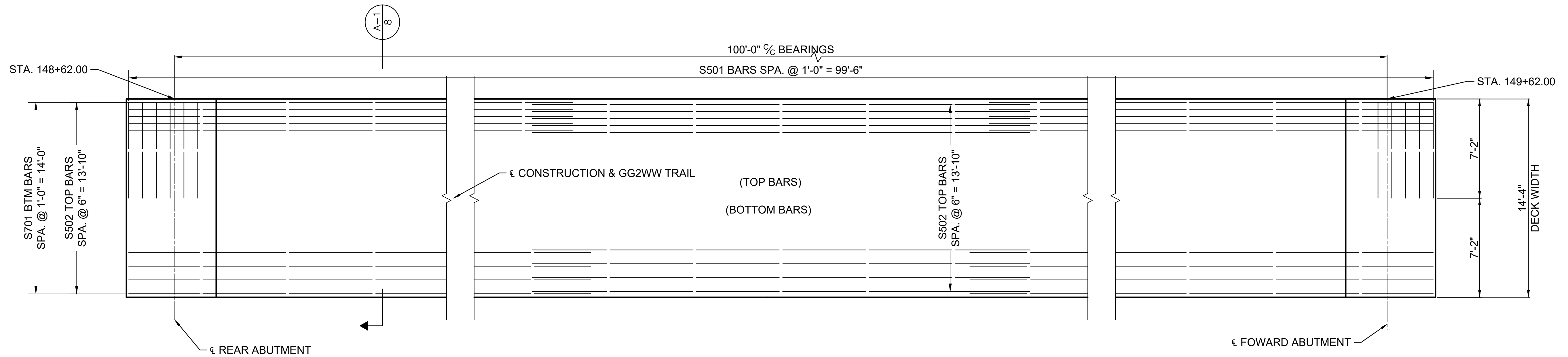
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SHEET TOTAL

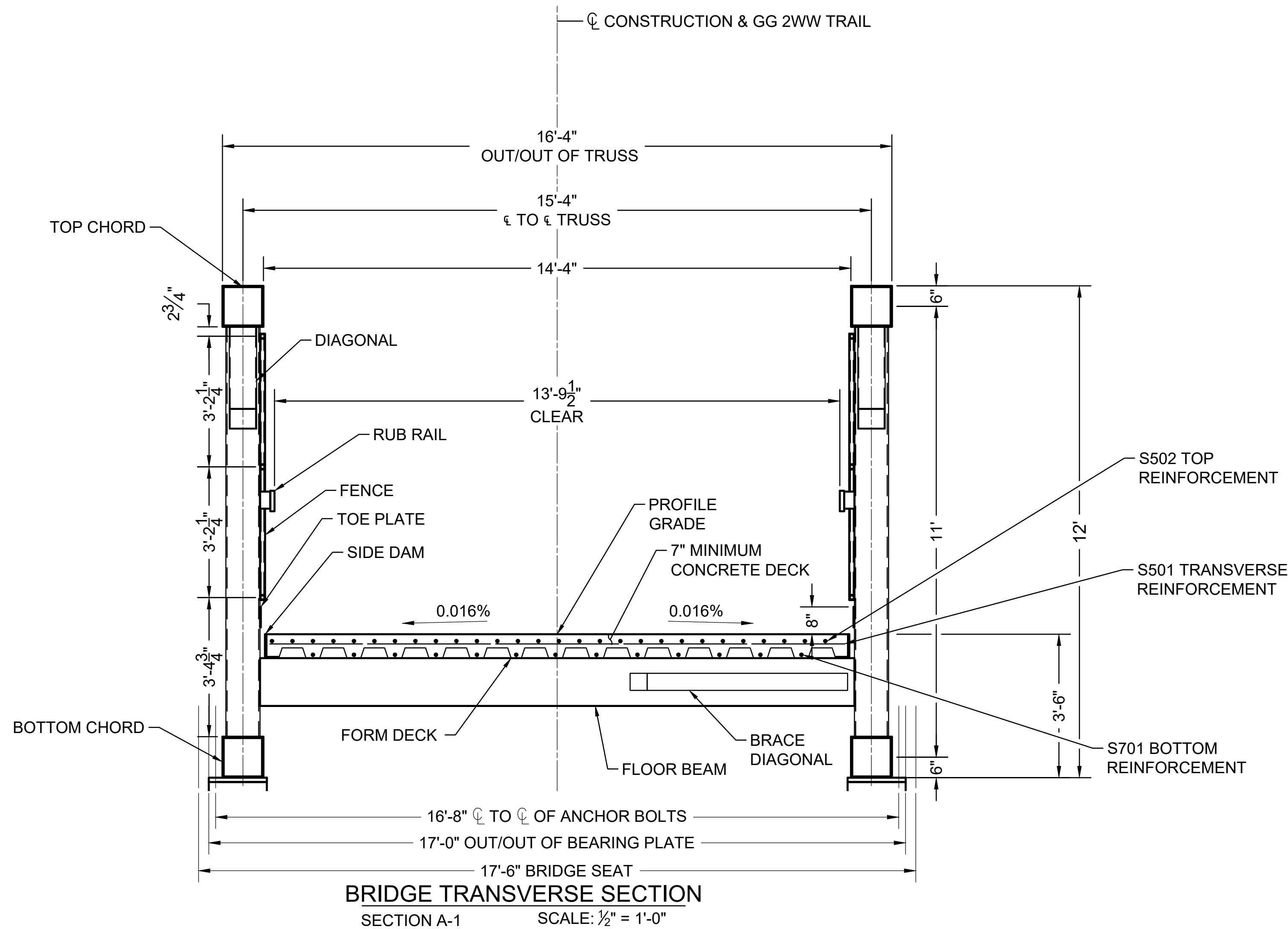
206 210







**BRIDGE PLAN VIEW**  
 SCALE: 1/4" = 1'-0"

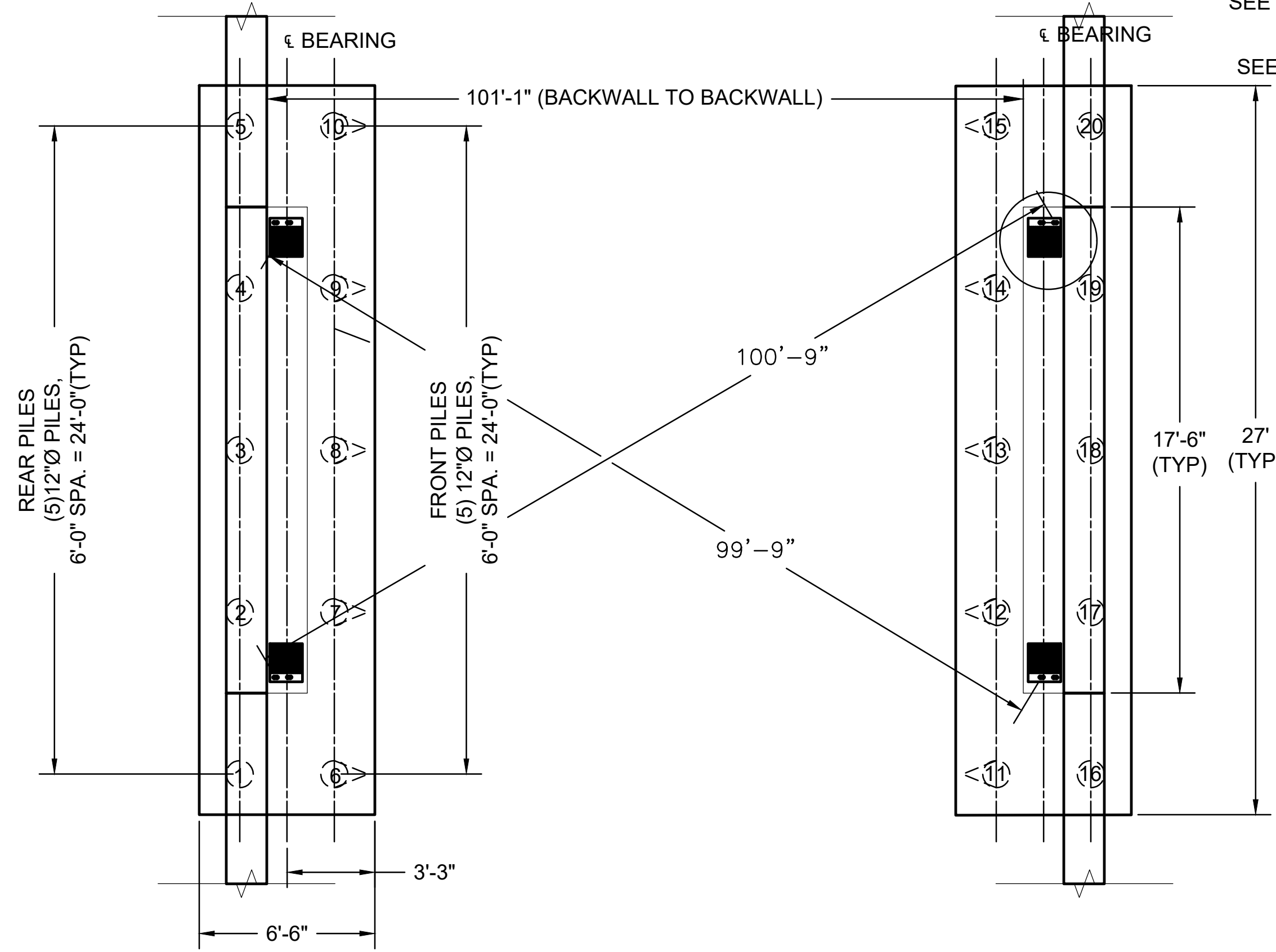


**BRIDGE TRANSVERSE SECTION**  
 SECTION A-1 SCALE: 1/2" = 1'-0"

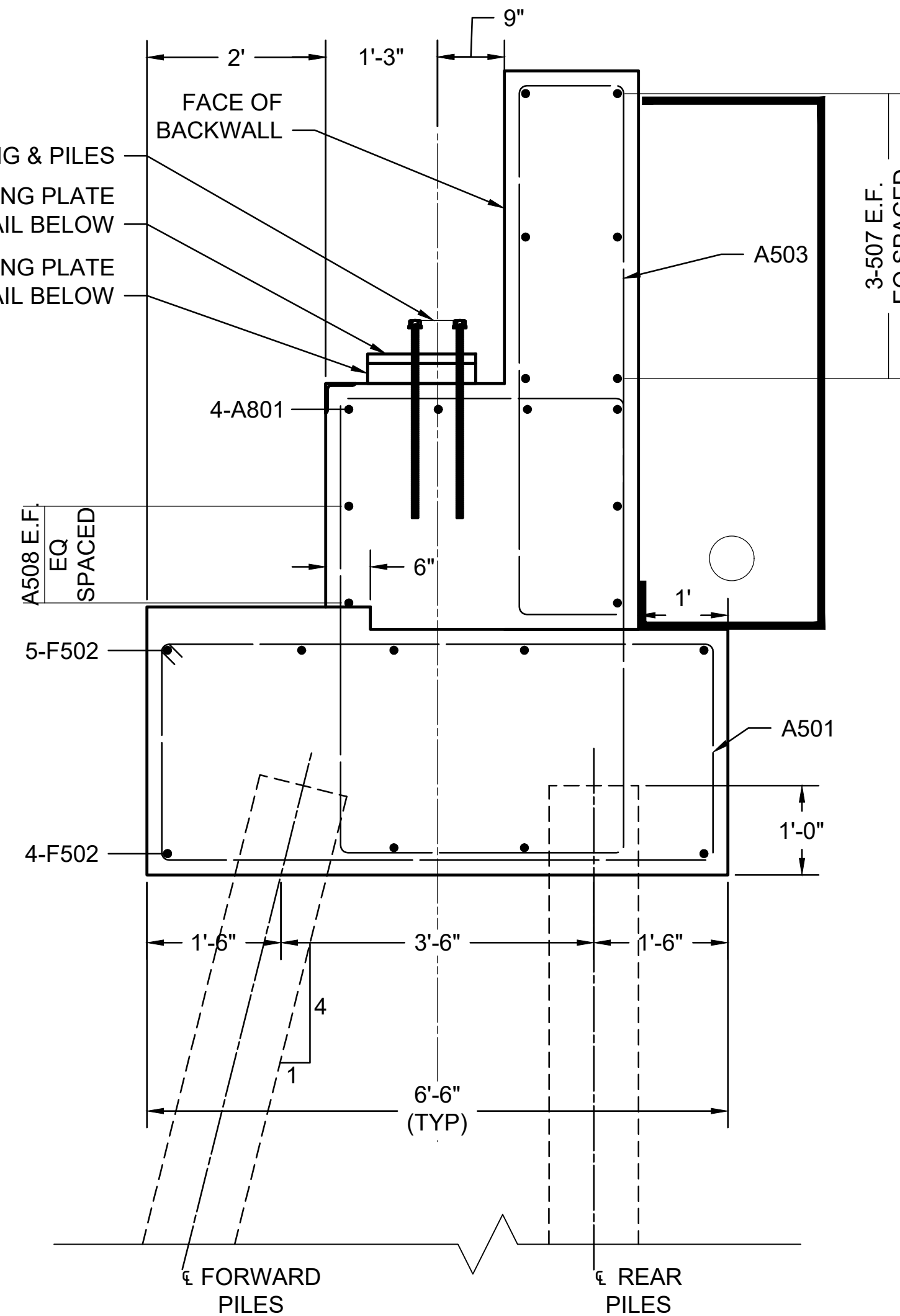
	FINISHED TOP OF DECK ELEVATIONS*				
	CENTERLINE BRG. REAR ABUT.	0.25L	0.50L	0.75L	CENTERLINE BRG. FWD. ABUT.
STATION	148+62.00	148+87.00	149+01.00	149+26.00	149+62.00
LEFT EDGE OF DECK	702.89	702.89	702.89	702.89	702.89
PROFILE GRADE	703.00	703	703	703	703.00
RIGHT EDGE OF DECK	702.89	702.89	702.89	702.89	702.89

\*THE FINISHED DECK ELEVATIONS ARE NOT ADJUSTED FOR DEFLECTION DUE TO DEAD LOAD OF CONCRETE DECK AND STEEL. THE PREFABRICATED BRIDGE DESIGNER MUST PROVIDE SCREED ELEVATIONS THAT WILL RESULTS IN ABOVE ELEVATIONS.

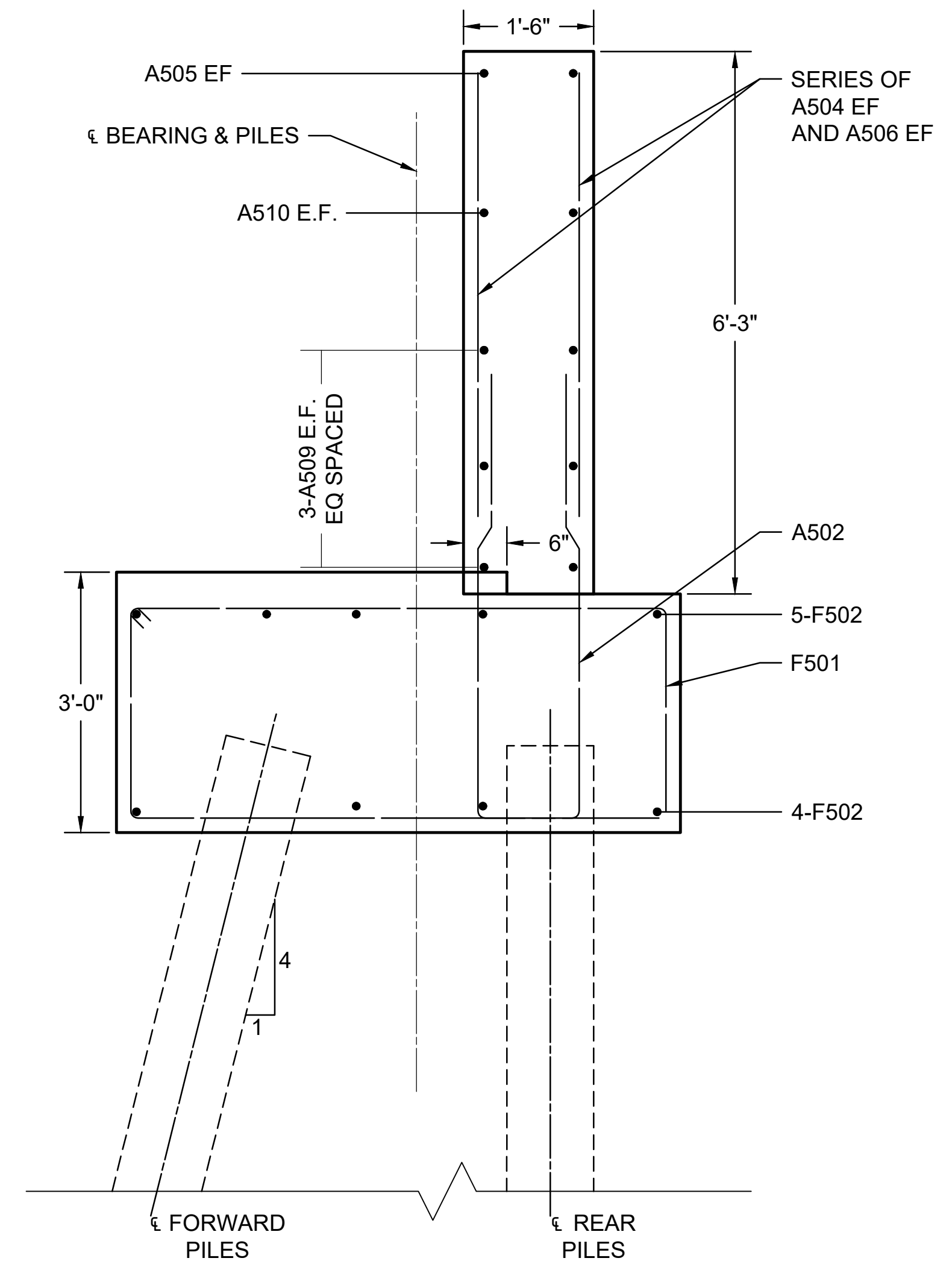




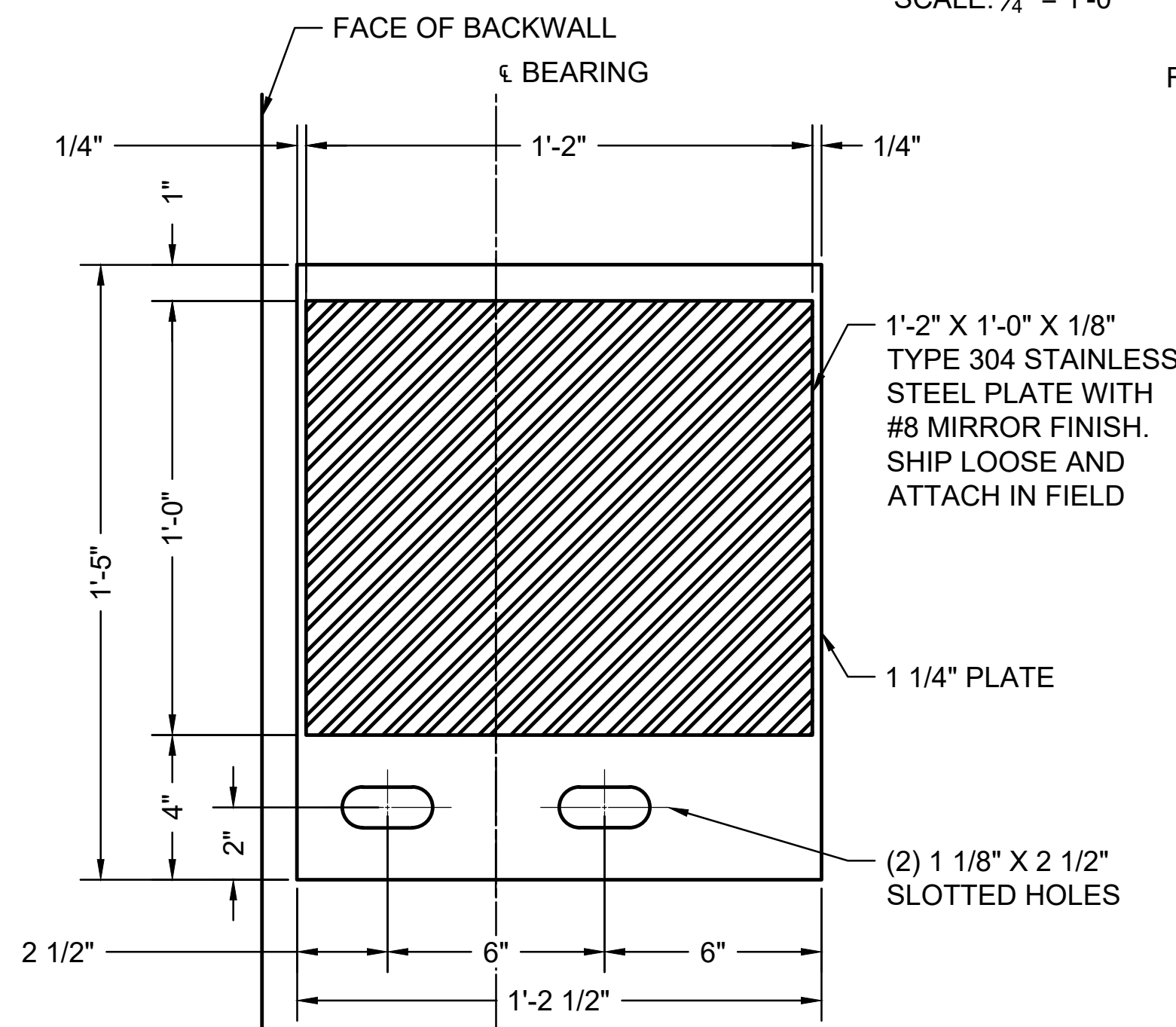
PILE LAYOUT PLAN  
 SCALE: 1/4" = 1'-0"



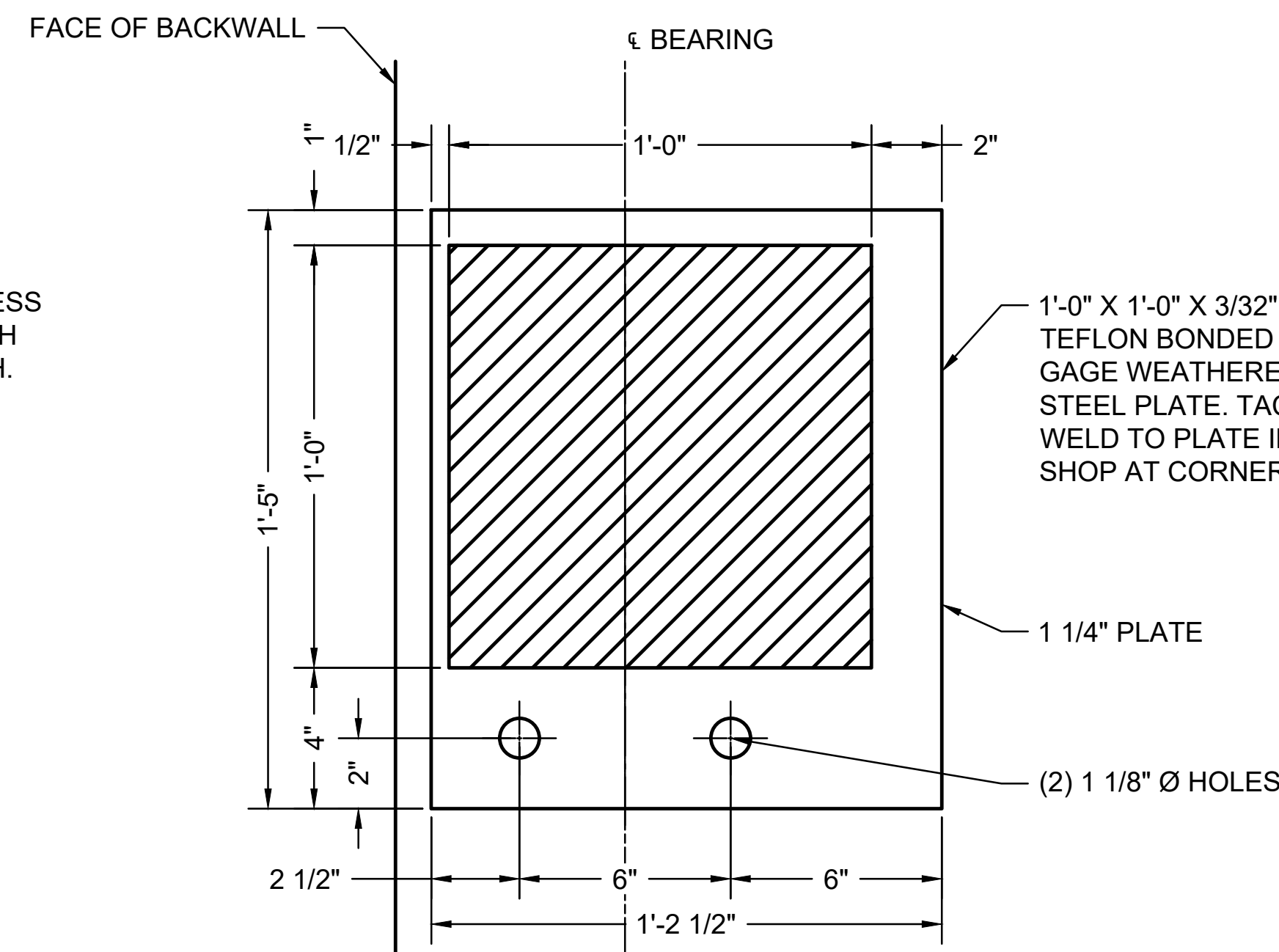
SECTION A  
 SCALE: 1/2" = 1'-0"



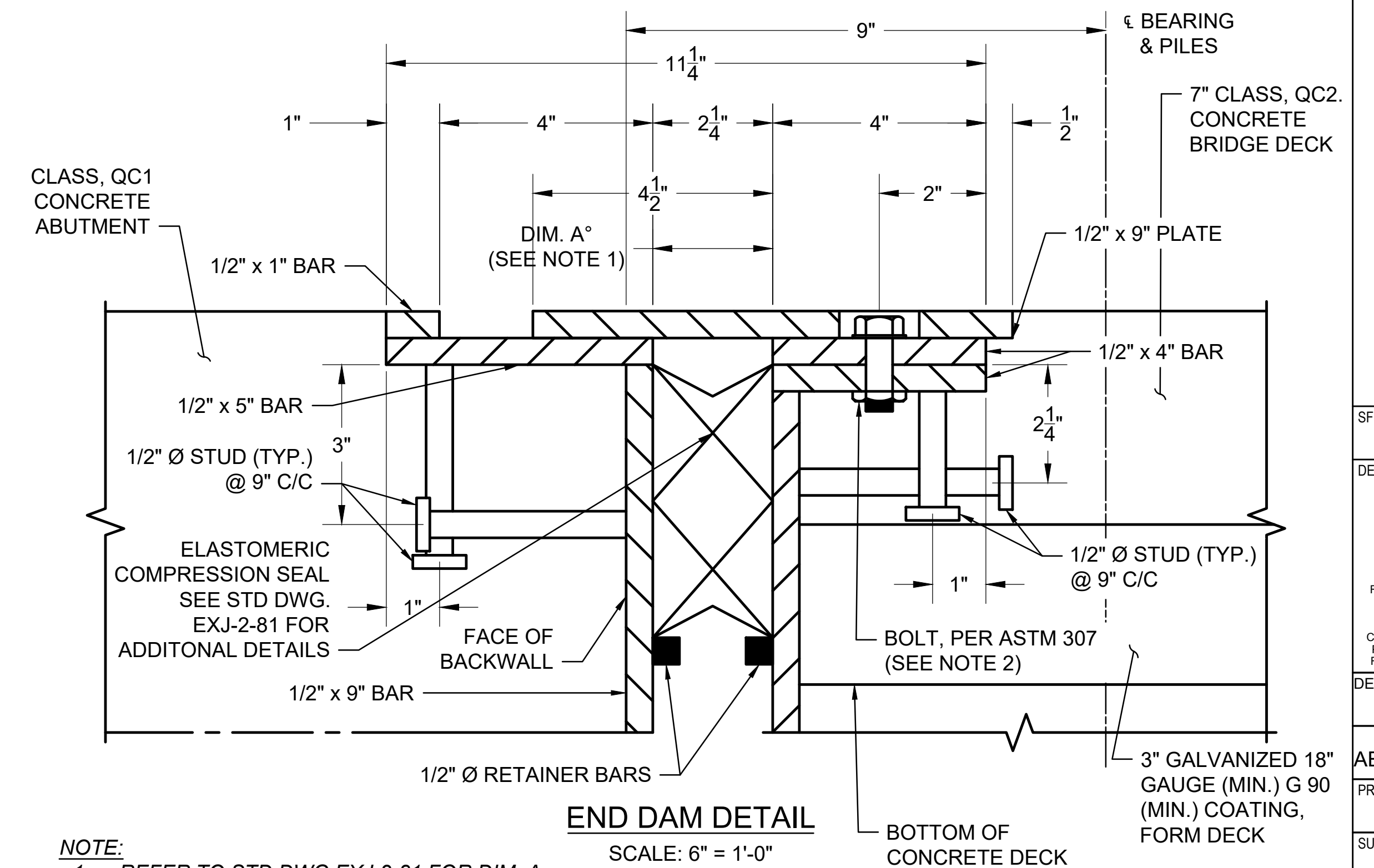
SECTION B  
 SCALE: 1/2" = 1'-0"



BEARING PLATE DETAIL  
 SCALE: 3" = 1'-0"



LEVELING PLATE DETAIL  
 SCALE: 3" = 1'-0"



END DAM DETAIL  
 SCALE: 6" = 1'-0"

NOTE:  
 1. PAYMENT FOR THE BEARING AND LEVELING PLATES ARE INCLUDED WITH THE PRICE OF PAY ITEM 530.

NOTE:  
 1. REFER TO STD DWG EXJ-2-81 FOR DIM. A.  
 2. 5/8" X 2-1/16" BOLTS, ASTM A307 WITH HEX NUTS AND WASHER GALVANIZED PER 711.02. DRILL 3/4" HOLES IN 1/2" X 4" BARS.

DESIGN AGENCY	N/A
DESIGNER	AP
CHECKER	LI
REVIEWER	AE/JC
PROJECT ID	117016
SUBSET	9
TOTAL	10
SHEET	209
TOTAL	210



