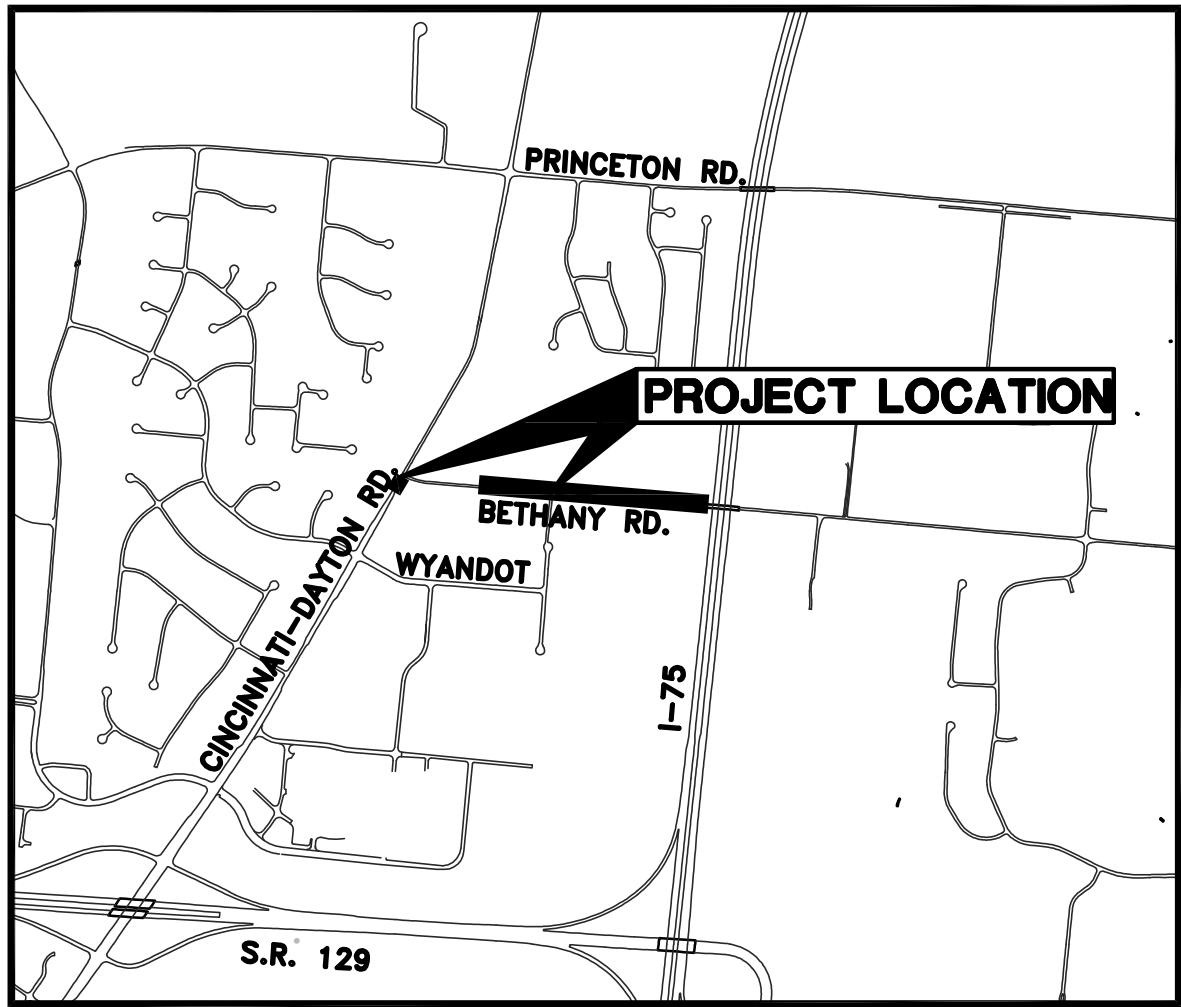


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VICINITY MAP
NOT TO SCALE

BETHANY ROAD ROADWAY IMPROVEMENTS AT LAKOTA FRESHMAN SCHOOLS

LIBERTY TOWNSHIP
BUTLER COUNTY, OHIO
SECTION 15, TOWNSHIP 3, RANGE 3

PROJECT DESCRIPTION

THIS PROJECT INCLUDES IMPROVEMENTS ALONG BETHANY ROAD EAST OF CINCINNATI ROAD AND WEST OF INTERSTATE 75. THE DESIGN INCLUDES APPROXIMATELY 1,800 LINEAL FEET OF WIDENING BETHANY ROAD TO ADD LEFT TURN LANES INTO LAKOTA SCHOOL DRIVE AND LIBERTY COURT. OTHER IMPROVEMENTS INCLUDE WIDENING AND REDESIGN OF APPROXIMATELY 500 LINEAL FEET OF LIBERTY COURT AND ADDITION OF A 285' RIGHT TURN LANE ON CINCINNATI-DAYTON ROAD. ASSOCIATED IMPROVEMENTS INCLUDE THE ADDITION AND/OR MODIFICATION OF PAVEMENT MARKINGS, SIGNAGE, AND STORM CULVERTS.

2005 SPECIFICATIONS

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

LEGEND

- LIGHT POLE
- UTILITY POLE
- GUY WIRE
- ELECTRIC MANHOLE
- TRAFFIC SIGNAL BOX
- TRAFFIC SIGNAL POLE
- PULL BOX
- STRAIN POLE
- MAILBOX
- GUARD POST
- GAS VALVE
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- WATER MANHOLE
- TELEPHONE BOX
- SIGN (1 POST)
- SIGN (2 POST)
- TREE
- TREE TO BE REMOVED
- BUSH
- PROJECT BENCHMARK
- FENCE LINE
- WATERLINE
- UNDERGROUND GASLINE
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- SAWCUT
- DITCH
- CONSTRUCTION LIMITS
- EX. DITCH

INDEX OF SHEETS

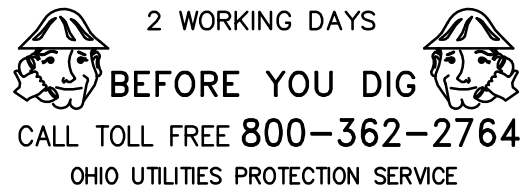
TITLE SHEET	1
SCHEMATIC LAYOUT	2
TYPICAL SECTIONS	3-5
GENERAL NOTES	6-8
GENERAL SUMMARY	9
PLAN AND PROFILE	10-15
CROSS SECTIONS	16-40
INTERSECTION DETAIL	41
DRIVEWAY DETAILS	42-44
TRAFFIC CONTROL PLAN	45-48
OVERHEAD SIGN DETAIL	49
RIGHT-OF-WAY PLANS	50-56

THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF BETHANY ROAD, AND THAT PROVISIONS FOR THE MAINTENANCE OF TRAFFIC WILL BE AS SET FORTH ON SHEET 7.

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES. ALL UTILITIES MAY NOT BE SHOWN. EXACT LOCATIONS CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

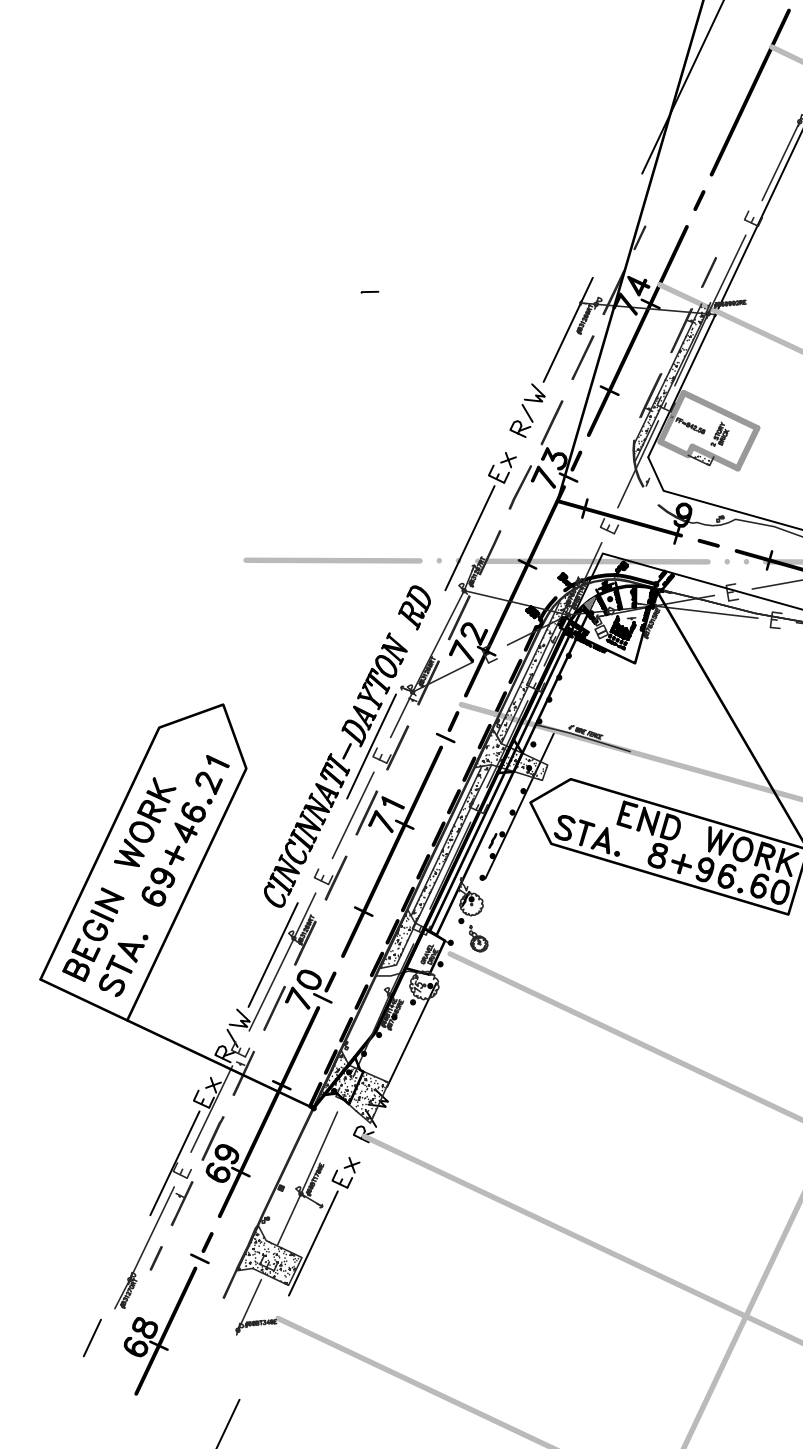
STANDARD CONSTRUCTION DRAWINGS
FOR A LIST OF ODOT STANDARD CONSTRUCTION DRAWINGS REFERENCED FOR THIS PROJECT, SEE SHEET 6.

SIGNED _____ DATE _____
TIM S. CASTO, E-71423



ELECTRONIC DATA TABLES HAVE BEEN USED BY KLEINGERS & ASSOCIATES, INC. FOR THE DATE PURPOSES OF PREPARING THIS DRAWING. THE ASSIGNED DATA, DRAWING INFORMATION, SCALE, NORTH ARROW, AND DATE OF PREPARATION ARE SUBJECT TO CHANGE. THE ASSIGNED DATA, DRAWING INFORMATION, SCALE, NORTH ARROW, AND DATE OF PREPARATION ARE SUBJECT TO CHANGE. THE ASSIGNED DATA, DRAWING INFORMATION, SCALE, NORTH ARROW, AND DATE OF PREPARATION ARE SUBJECT TO CHANGE.

STA. 8+35.31 BETHANY RD =
STA. 72+86.50 CINCINNATI-DAYTON RD.



BEGIN WORK
STA. 12+67.01

STA. 21+17.24 BETHANY RD=
STA. 56+40.75 LIBERTY CT

STA. 21+20.29 BETHANY RD=
LAKOTA FRESHMAN DRIVE

END WORK
STA. 30+79.50

PROJECT BENCHMARK #1
NGS MONUMENT #K347

PROJECT BENCHMARK #1
NGS MONUMENT #K347
ELEV=864.42
N: 10468.99
E: 1578.30

PROJECT BENCHMARK #2
5/8" IRON PIN & CAP
ELEV=861.02
N: 9553.73
E: 158.24

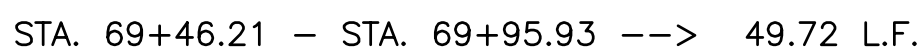
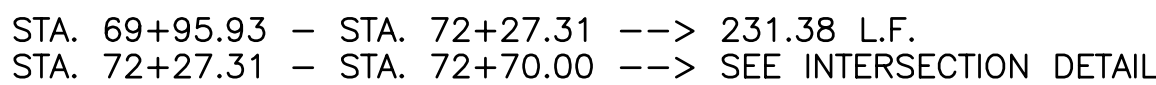
CENTERLINE LAYOUT:

DESCRIPTION	STATION	NORTHING	EASTING
BEGIN WORK BETHANY	12+89.05	9601.14	-650.50
INTERSECTION LIBERTY COURT	21+17.24	9532.76	174.86
INTERSECTION SCHOOL DRIVE	21+20.29	9532.51	177.85
PI	24+61.85	9504.30	518.29
END WORK BETHANY	30+79.50	9452.17	1133.74
BEGIN WORK LIBERTY	51+41.27	9034.24	138.80
INTERSECTION BETHANY	56+40.75	9532.76	174.86
BEGIN WORK CINCINNATI-DAYTON	69+46.21	9387.43	-1263.15
INTERSECTION BETHANY	72+86.50	9682.12	-1092.99

LAYOUT CONTROL:

DESCRIPTION	STATION	OFFSET	NORTHING	EASTING	ELEV.
A. TRAVERSE	12+83.43	23.66 LT	9625.19	-654.15	836.98
B. IP	19+92.73	30.14 RT	9513.00	48.28	
C. TRAVERSE	26+17.13	13.02 RT	9478.23	671.92	865.50

Q



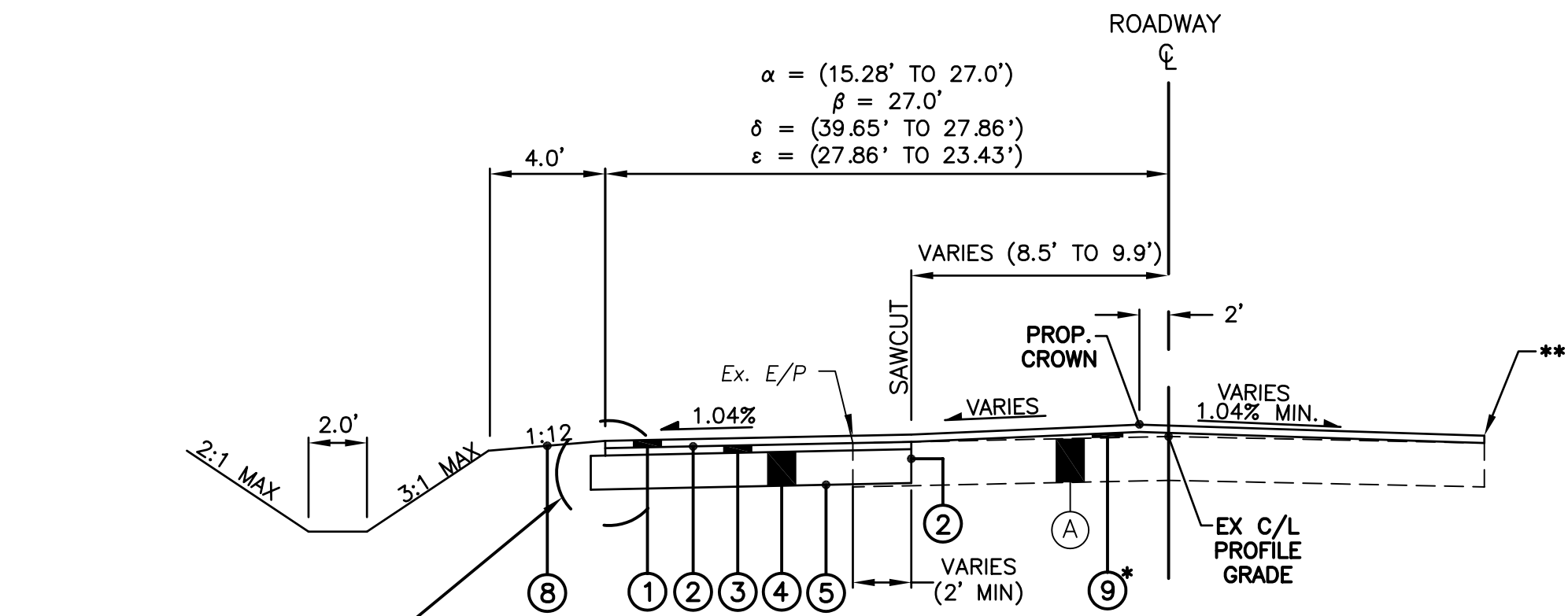
LEGEND

- | | | |
|---|----------|---|
| ① | ITEM 448 | 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 |
| ② | ITEM 408 | TACK COAT (0.1 GAL/S.Y.) |
| ③ | ITEM 448 | 1-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, PG64-28, TYPE 2 |
| ④ | ITEM 301 | 9" BITUMINOUS AGGREGATE BASE |
| ⑤ | ITEM 204 | SUBGRADE COMPACTION |
| ⑥ | ITEM 608 | 6" CONCRETE BIKE PATH |
| ⑦ | ITEM 609 | CONCRETE CURB AND GUTTER, TYPE 2 |
| ⑧ | ITEM 659 | SEEDING AND MULCHING |
| ⑨ | ITEM 448 | VARIABLE DEPTH (0" TO 3/4") ASPHALT CONCRETE INTERMEDIATE COURSE, PG64-28, TYPE 2 |
| ⑩ | ITEM 254 | PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH |
| ⑪ | ITEM 609 | CONCRETE CURB, TYPE 6 |
| ⑫ | ITEM 608 | 4" CONCRETE WALK |

(A) EXISTING PAVEMENT

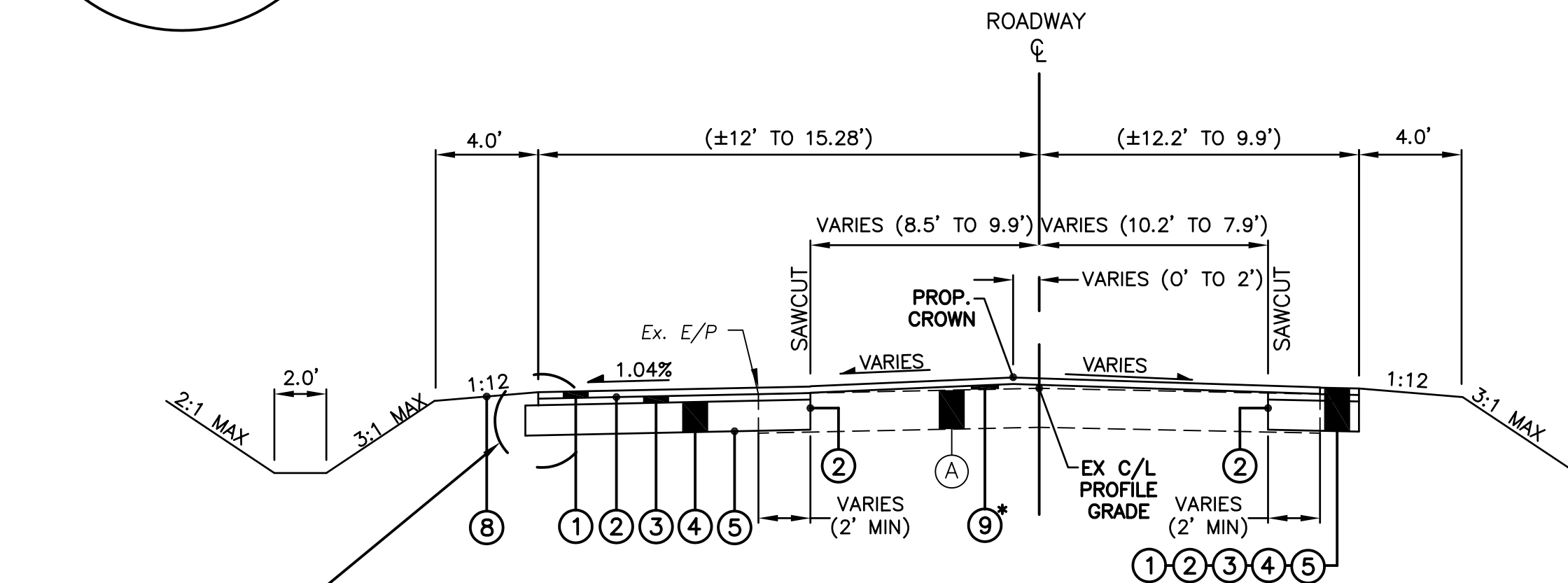
NOTE: SEE CROSS SECTIONS
FOR EXACT TIE-IN SLOPES

ELECTRONIC DATA FILES HAVE BEEN USED BY KLEINGERS & ASSOCIATES, INC. FOR THE SOLE PURPOSE OF GENERATING THIS PLAN DRAWING. THE APPROVED PLAN DRAWING REPRESENTS THE FINAL DESIGN AND SHALL BE USED FOR CONSTRUCTION. ANY CHANGES TO THE DESIGN SHALL BE MADE BY THE ENGINEER'S OFFICE. THE USE OF ELECTRONIC DATA FILES IS AT THE USER'S RISK AND SHALL BE AT THE USER'S SOLE RISK. KLEINGERS & ASSOCIATES, INC. IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS PLAN DRAWING.



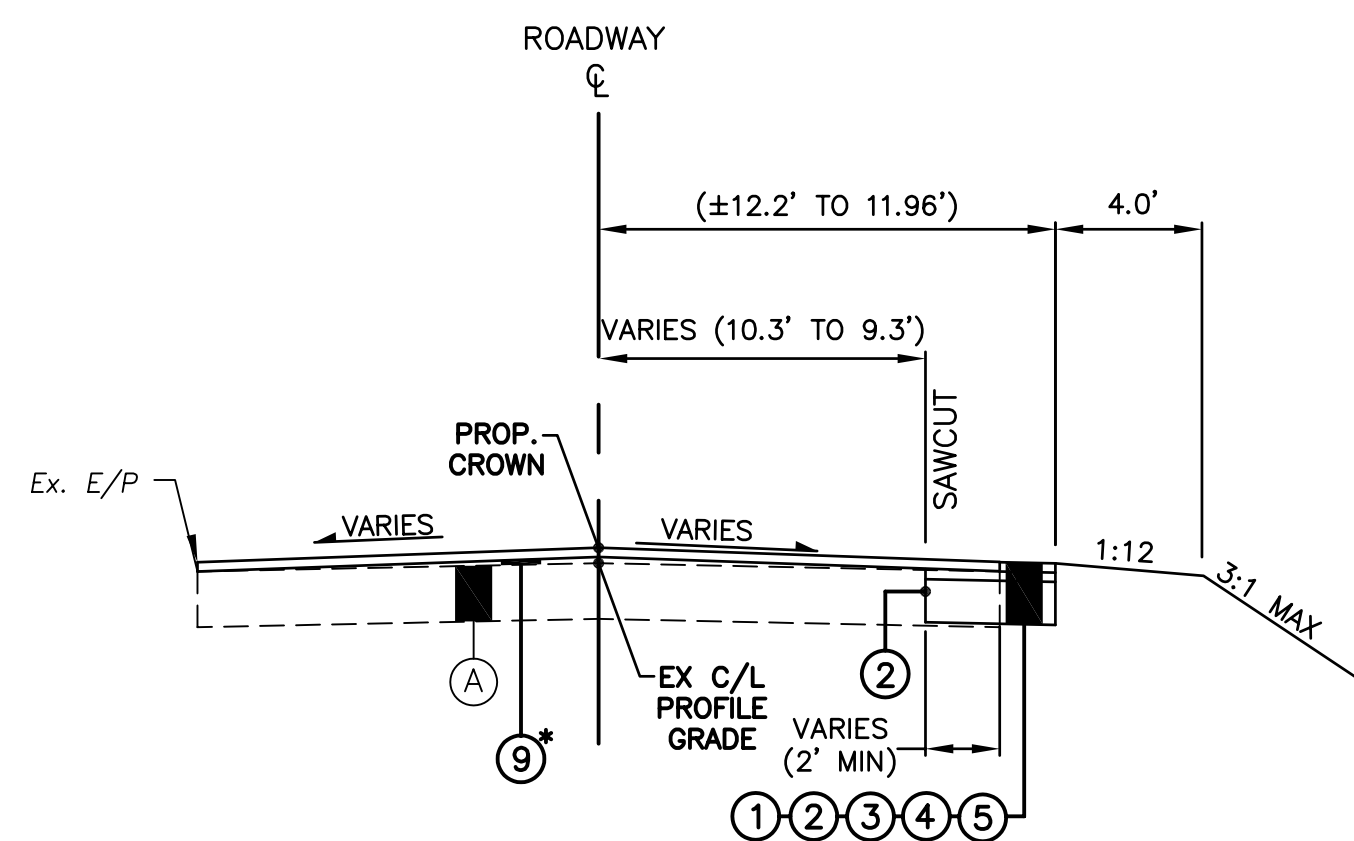
BETHANY ROAD WIDENING SECTION

α --> STA. 14+24.54 - STA. 18+93.35 --> 468.81 L.F.
 β --> STA. 18+93.35 - STA. 19+58.18 --> 64.83 L.F.
 δ --> STA. 23+49.79 - STA. 23+99.86 --> 50.07 L.F.
 ϵ --> STA. 23+99.86 - STA. 25+75.00 --> 175.14 L.F.



BETHANY ROAD WIDENING SECTION

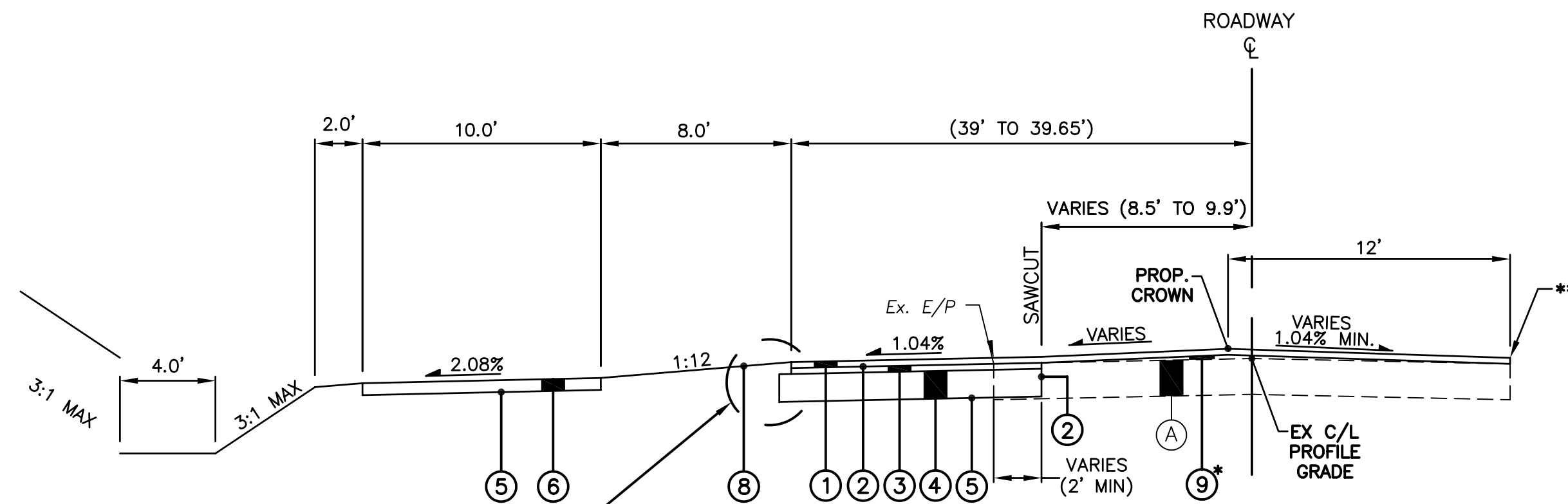
STA. 12+89.05 - STA. 14+24.54 --> 135.49 L.F.



BETHANY ROAD WIDENING SECTION

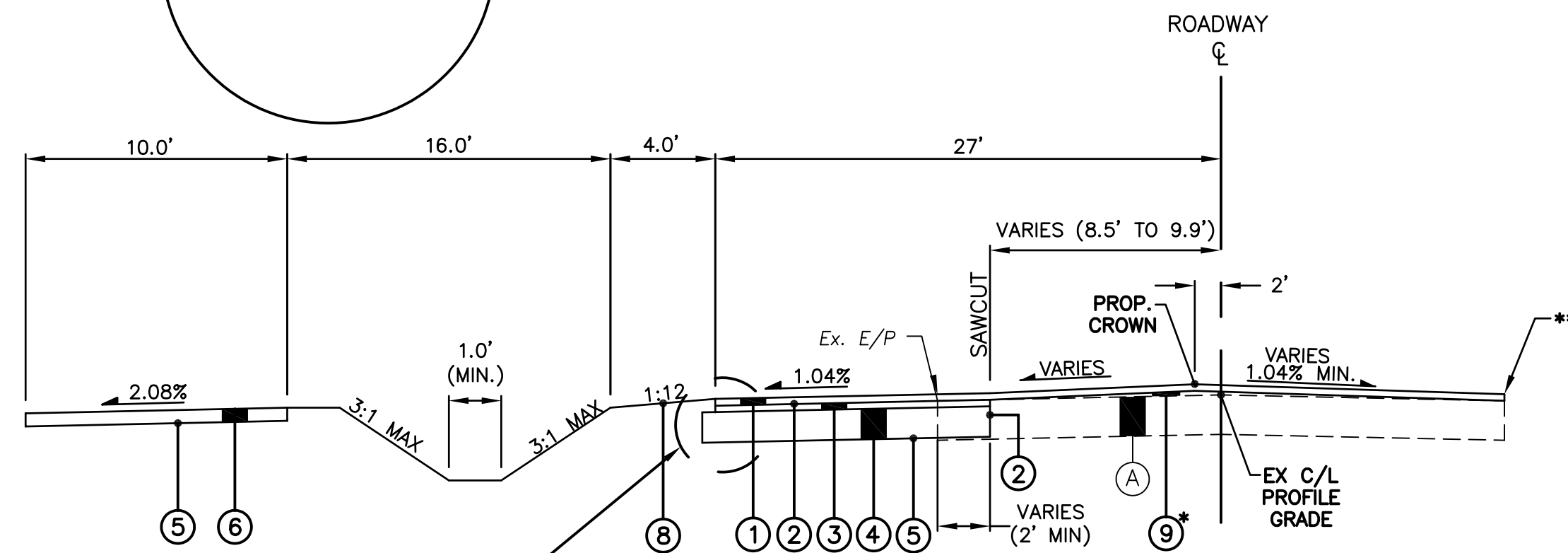
STA. 12+67.01 - STA. 12+89.05 --> 22.04 L.F.

NOTE: SEE CROSS SECTIONS
FOR EXACT TIE-IN SLOPES



BETHANY ROAD WIDENING AND BIKEPATH SECTION

STA. 21+74.97 - STA. 23+49.79 --> 174.82 L.F.



BETHANY ROAD WIDENING AND BIKEPATH SECTION

STA. 19+58.18 - STA. 20+68.67 --> 111.49 L.F.
STA. 20+68.67 - STA. 21+74.97 --> SEE INTERSECTION DETAIL

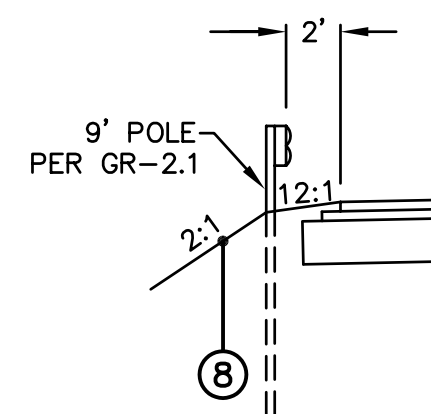
LEGEND

- | | | |
|---|----------|---|
| ① | ITEM 448 | 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 |
| ② | ITEM 408 | TACK COAT (0.1 GAL/S.Y.) |
| ③ | ITEM 448 | 1-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, PG64-28, TYPE 2 |
| ④ | ITEM 301 | 9" BITUMINOUS AGGREGATE BASE |
| ⑤ | ITEM 204 | SUBGRADE COMPACTION |
| ⑥ | ITEM 608 | 6" CONCRETE BIKE PATH |
| ⑦ | ITEM 609 | CONCRETE CURB AND GUTTER, TYPE 2 |
| ⑧ | ITEM 659 | SEEDING AND MULCHING |
| ⑨ | ITEM 448 | VARIABLE DEPTH (0" TO 1-1/2") ASPHALT CONCRETE INTERMEDIATE COURSE, PG64-28, TYPE 2 |
| ⑩ | ITEM 254 | PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH |
| ⑪ | ITEM 609 | CONCRETE CURB, TYPE 6 |
| ⑫ | ITEM 608 | 4" CONCRETE WALK |

(A) EXISTING PAVEMENT

*CONTRACTOR SHALL BE ADVISED THAT THE VARIABLE DEPTH INTERMEDIATE COURSE SHALL BE FIELD ADJUSTED AS DIRECTED BY THE ENGINEER'S OFFICE. THE INTENT OF THE VARIABLE DEPTH INTERMEDIATE COURSE IS TO REESTABLISH A ROADWAY CROWN AND CROSS SLOPE. PROPOSED CROSS SLOPE SHALL BE A MINIMUM 1/8" PER FOOT. THIS WORK SHALL BE PERFORMED AT THE DIRECTION OF THE BUTLER COUNTY ENGINEER'S OFFICE.

**PROPOSED PAVEMENT ELEVATIONS ALONG THE SOUTH EDGE OF PAVEMENT SHOULD BE 1.25" ABOVE EXISTING GRADES.



GUARDRAIL DETAIL

STA. 28+18 TO STA. 30+79.5

BETHANY ROAD ROADWAY IMPROVEMENTS TYPICAL SECTIONS

KLEINGERS & ASSOCIATES
ENGINEERS AND SURVEYORS
West Chester, OH 43081
513-689-8851 Fax: 513-689-8852





STA. 52+75.00 - STA. 54+25.00 --> 150.00 L.F.



STA. 55+50.00 - STA. 55+88.77 --> 38.77 L.F..
STA. 55+88.77 - STA. 56+29.14 --> SEE INTERSECTION DETAIL



STA. 51+41.27 - STA. 52+75.00 --> 133.73 L.F.


$$\begin{array}{l} \alpha \rightarrow \text{STA. } 54+25.00 - \text{STA. } 54+68.34 \rightarrow 43.34 \text{ L.F.} \\ \beta \rightarrow \text{STA. } 54+68.34 - \text{STA. } 55+18.34 \rightarrow 50.00 \text{ L.F.} \\ \delta \rightarrow \text{STA. } 55+18.34 - \text{STA. } 55+50.00 \rightarrow 31.66 \text{ L.F.} \end{array}$$


STA. 25+75.00 - STA. 30+79.50 --> 504.5 L.F.

NOTE: SEE CROSS SECTIONS
FOR EXACT TIE-IN SLOPES

LEGEND

- | | | |
|---|----------|---|
| ① | ITEM 448 | 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 |
| ② | ITEM 408 | TACK COAT (0.1 GAL/S.Y.) |
| ③ | ITEM 448 | 1-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, PG64-28, TYPE 2 |
| ④ | ITEM 301 | 9" BITUMINOUS AGGREGATE BASE |
| ⑤ | ITEM 204 | SUBGRADE COMPACTION |
| ⑥ | ITEM 608 | 6" CONCRETE BIKE PATH |
| ⑦ | ITEM 609 | CONCRETE CURB AND GUTTER, TYPE 2 |
| ⑧ | ITEM 659 | SEEDING AND MULCHING |
| ⑨ | ITEM 448 | VARIABLE DEPTH (0" TO 3/4") ASPHALT CONCRETE INTERMEDIATE COURSE, PG64-28, TYPE 2 |
| ⑩ | ITEM 254 | PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH |
| ⑪ | ITEM 609 | CONCRETE CURB, TYPE 6 |
| ⑫ | ITEM 608 | 4" CONCRETE WALK |

(A) EXISTING PAVEMENT

WHEREVER THE WORD "STATE" OCCURS, IT IS TO MEAN THE OHIO DEPARTMENT OF
TRANSPORTATION (ODOT). WHENEVER THE WORD "ENGINEER" IS USED HEREIN, IT SHALL BE
HELD TO MEAN THE BUTLER COUNTY ENGINEER, OR DULY AUTHORIZED REPRESENTATIVE.

FOLLOWING THE AWARD OF THE CONTRACT AND BEFORE STARTING ANY WORK, THE CONTRACTOR AND HIS SUPERINTENDENT, SHALL MEET WITH THE ENGINEER FOR A PRE-CONSTRUCTION MEETING. THE PURPOSE OF SUCH IS FOR REVIEWING THE SITE, AND ANY RESTRICTIONS AND REGULATIONS GOVERNING THE WORK.

THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ANY AND ALL PERMITS AND INSPECTIONS REQUIRED FOR THE PROSECUTION OF THE WORK BY LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FACILITY. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL REPLACE THE DAMAGED PORTION AT HIS EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIFICATIONS. THE SUBMISSION OF A BID SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS MADE SUCH EXAMINATION AND IS SATISFIED AS TO THE CONDITIONS TO BE ENCOUNTERED IN PERFORMING THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

THE TYPES OF TEMPORARY SECURITY AND PROTECTION PROVISIONS REQUIRED INCLUDE, BUT NOT BY WAY OF LIMITATION, BARRICADES, WARNING SIGNS/LIGHTS, SITE ENCLOSURE FENCE, ETC. AND SIMILAR PROVISIONS INTENDED TO MINIMIZE PROPERTY LOSSES, PERSONAL INJURIES AND CLAIMS FOR DAMAGE TO THE PROJECT SITE. THE CONTRACTOR SHALL PROVIDE ANY PROTECTION SERVICES AND SYSTEMS IN COORDINATION WITH ACTIVITIES AND IN A MANNER TO ACHIEVE 24-HOUR, 7-DAY PER-WEEK EFFECTIVENESS.

THE CONTRACTOR SHALL RESTRICT ALL OF HIS ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE ACTUAL CONSTRUCTION LIMITS ARE SHOWN ON THE PLANS OR THE EXISTING OR PROPOSED R/W, WHICHEVER IS NEAREST. SHOULD THE CONTRACTOR WISH TO USE ANY AREA OUTSIDE THESE LIMITS, HE MUST SUBMIT HIS REQUEST IN WRITING TO THE ENGINEER. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA THAT THE CONTRACTOR PLANS TO USE AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. THE ENGINEER SHALL APPROVE THE REQUEST IN WRITING BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA. PRIOR TO THE BEGINNING OF WORK, THE CONTRACTOR, SUPERINTENDENT OR HIS REPRESENTATIVE, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY SHALL REVIEW AND RECORD ALL ADJACENT SITES WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF THE ADJACENT SITES WILL BE MADE. ANY AREAS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPAIRED OR REPLACED, AT THE CONTRACTOR'S EXPENSE, IN KIND OR AS DIRECTED BY THE ENGINEER.

REFERENCE SHALL BE MADE TO THE MOST CURRENT VERSION OF THE FOLLOWING STANDARD CONSTRUCTION DRAWINGS.

REFERENCE SHALL BE MADE TO THE MOST CURRENT VERSION OF THE FOLLOWING
SUPPLEMENTAL SPECIFICATIONS.

TELEPHONE
CINCINNATI BELL
201 E. 4TH STREET
ROOM 103
CINCINNATI, OH 45202
(513) 566-7043

IN ADDITION TO THE APPLICABLE REQUIREMENTS OF ITEM 638, THE FOLLOWING SHALL ALSO APPLY. ALL LABOR, EQUIPMENT, MATERIALS INCLUDING ANY JOINTS, FITTINGS, PIPE AND INCIDENTALS REQUIRED TO REMOVE AND RESET THE FIRE HYDRANT AS SHOWN ON THE PLANS SHALL BE INCLUDED AND PAID FOR AS A PART OF ITEM 638 FIRE HYDRANT REMOVE AND RESET, AS PER PLAN

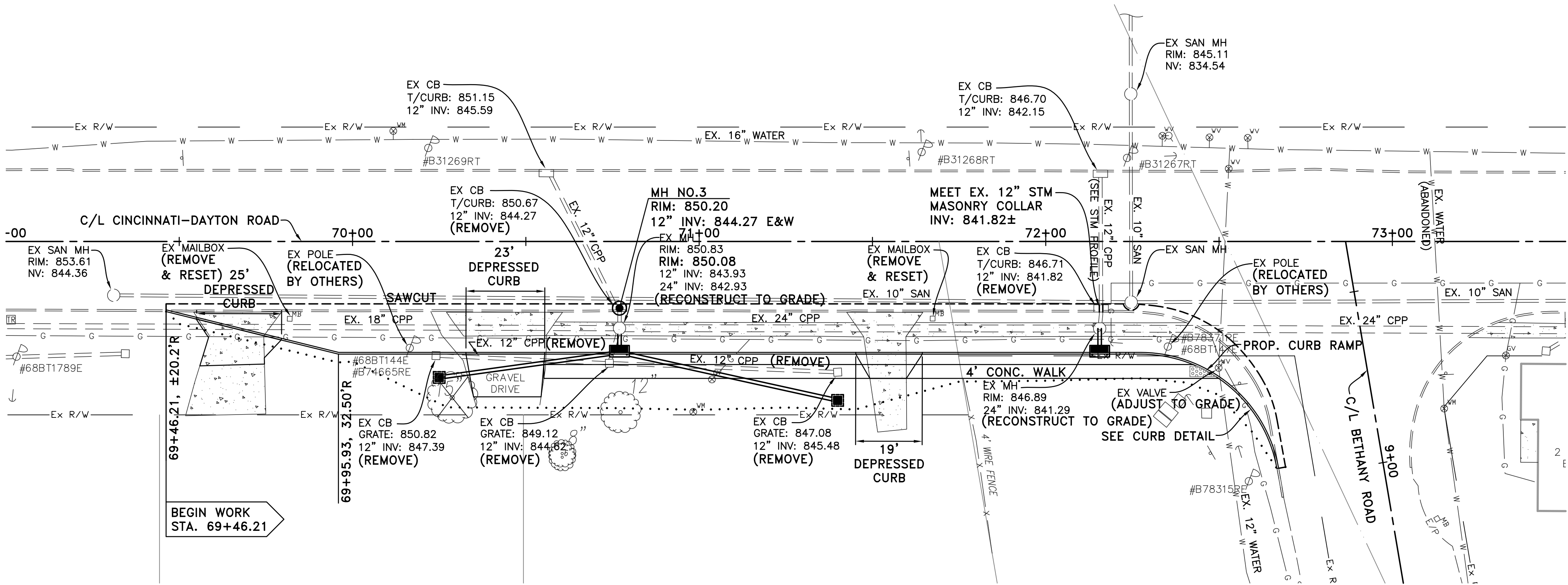
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ITEM NO.	ITEM DESCRIPTION	BETHANY RD. QTY	LIBERTY CT. QTY	CINCINNATI-DAYTON RD. QTY	TOTAL QTY	UNIT
	ROADWAY					
201	CLEARING AND GRUBBING, AS PER PLAN	62%	28%	10%	1	LUMP
202	PAVEMENT REMOVED	398	1342	70	1810	SQ YD
202	PAVEMENT REMOVED, CONCRETE DRIVE	37	0	82	119	SQ YD
202	PAVEMENT REMOVED, ASPHALT DRIVE	79	0	0	79	SQ YD
202	CURB REMOVED	0	978	348	1326	FT
202	WALK REMOVED	51	338	671	1060	FT
202	STRUCTURE REMOVED	4	0	0	4	EACH
202	PIPE REMOVED, 24" AND UNDER	495	0	127	622	FT
202	GUARDRAIL REMOVED	261	0	0	261	FT
202	CATCH BASIN REMOVED	1	1	5	7	EACH
202	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	0	0	1	1	EACH
203	EXCAVATION	678	405	185	1268	CY
203	EMBANKMENT	1546	297	24	1867	CY
204	SUBGRADE COMPACTION	3904	1863	666	6433	SQ YD
604	MANHOLE RECONSTRUCT TO GRADE	0	0	2	2	EACH
604	MANHOLE ADJUSTED TO GRADE	0	1	0	1	EACH
606	GUARDRAIL, TYPE 5, USING 9' POSTS	238	0	0	238	FT
606	ANCHOR ASSEMBLY, TYPE E-98	1	0	0	1	EACH
SPECIAL	MAILBOX REMOVED AND RE-ERECTED	12	0	3	15	EACH
	EROSION CONTROL					
659	SEEDING AND MULCHING	3716	841	197	4754	SQ YD
	PAVEMENT					
301	9" BITUMINOUS AGGREGATE BASE	866	391	116	1373	CU YD
301	4" BITUMINOUS AGGREGATE BASE	19	0	0	19	CU YD
407	TACK COAT FOR INTERMEDIATE COURSE	310	42	47	399	GAL
448	*1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1	243	56	16	315	CU YD
448	1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (DRIVEWAYS)	5	0	0	5	CU YD
448	1-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2	131	59	19	209	CU YD
448	*VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE LEVELING COURSE,	80	0	0	80	CU YD
451	6" NON-REINFORCED CONCRETE	3	0	10	13	CU YD
608	CURB RAMP	3	1	1	5	EACH
608	4" CONCRETE WALK	73	2461	714	3248	SQ FT
608	6" CONCRETE WALK	3432	0	0	3432	SQ FT
608	6" CONCRETE WALK INTEGRAL WITH TYPE 6 CURB	235	0	0	235	SQ FT
609	COMBINATION CURB AND GUTTER, TYPE 2	0	1014	0	1014	FT
609	CONCRETE CURB , TYPE 6	0	0	339	339	FT

ITEM NO.	ITEM DESCRIPTION	BETHANY RD. QTY	LIBERTY CT. QTY	CINCINNATI-DAYTON RD. QTY	TOTAL QTY	UNIT
	DRAINAGE					
602	CONCRETE MASONRY	7.1	0	0	7.1	EACH
603	12" CONDUIT, TYPE B	480	66	132	678	FT
603	15" CONDUIT, TYPE B	130	0	0	130	FT
604	MANHOLE NO. 3	0	0	1	1	EACH
604	CATCH BASIN NO. 2-2B	5	0	2	7	EACH
604	CATCH BASIN NO. 3A	0	2	0	2	EACH
604	CATCH BASIN NO. 3	0	0	2	2	EACH
	MISCELLANEOUS				0	
614	MAINTENANCE OF TRAFFIC, AS PER PLAN	62%	28%	10%	1	LUMP
623	CONSTRUCTION LAYOUT	62%	28%	10%	1	LUMP
625	MOBILIZATION	62%	28%	10%	1	LUMP
	TRAFFIC CONTROL					
621	RAISED PAVEMENT MARKER	68	0	0	68	EACH
630	SIGN, FLAT SHEET, TYPE G, AS PER PLAN	70	15.5	6.25	91.75	SQ FT
630	GROUND MOUNTED SUPPORT, NO. 3 POST	112.5	33	11.5	157	FT
644	CENTERLINE	0.42	0.02	0	0.44	MILE
644	EDGE LINE	0.31	0	0.06	0.37	MILE
644	CHANNELIZING LINE	525	100	245	870	FT
644	STOP LINE	18	34	0	52	FT
644	CROSSWALK, 12" WHITE	102	0	173	275	FT
644	CROSSWALK, 24" WHITE	70	0	0	70	FT
644	LANE ARROWS	9	4	3	16	EACH
644	WORD ON PAVEMENT	2	1	0	3	EACH
625	LUMINAIRE CONVENTIONAL, AS PER PLAN	1	0	0	1	EACH
625	30' BRACKET ARM, CLAMP-ON STYLE, AS PER PLAN	1	0	0	1	EACH
625	No. 10 600 VOLT DISTRIBUTION CABLE	75	0	0	75	FT
625	POWER SERVICE, AS PER PLAN	1	0	0	1	EACH
625	GROUND ROD	2	0	0	2	EACH
630	SIGN FLAT SHEET, TYPE G	18	0	0	18	SQ FT
630	SIGN HANGER ASSEMBLY, SPAN WIRE	2	0	0	2	EACH
632	STRAIN POLE FOUNDATION, AS PER PLAN	2	0	0	2	EACH
632	STRAIN POLE, TYPE TC-81.10, DESIGN 5, INSTALLATION ONLY	2	0	0	2	EACH
632	MESSANGER WIRE, 7-STRAND, 3/8" DIAMTER, WITH ACCESSORIES	136	0	0	136	FT
	WATER					
202	VALVE BOX REMOVED	1	0	0	1	EACH
638	FIRE HYDRANT REMOVED	1	0	0	1	EACH
638	FIRE HYDRANT REMOVED & RESET	3	0	0	3	EACH
639	FIRE HYDRANT ADJUSTED TO GRADE	1	0	0	1	EACH
638	METER BOX ADJUSTED TO GRADE	3	0	0	3	EACH
638	VALVE BOX ADJUSTED TO GRADE	8	0	1	9	EACH

BETHANY ROAD ROADWAY IMPROVEMENTS
GENERAL SUMMARY

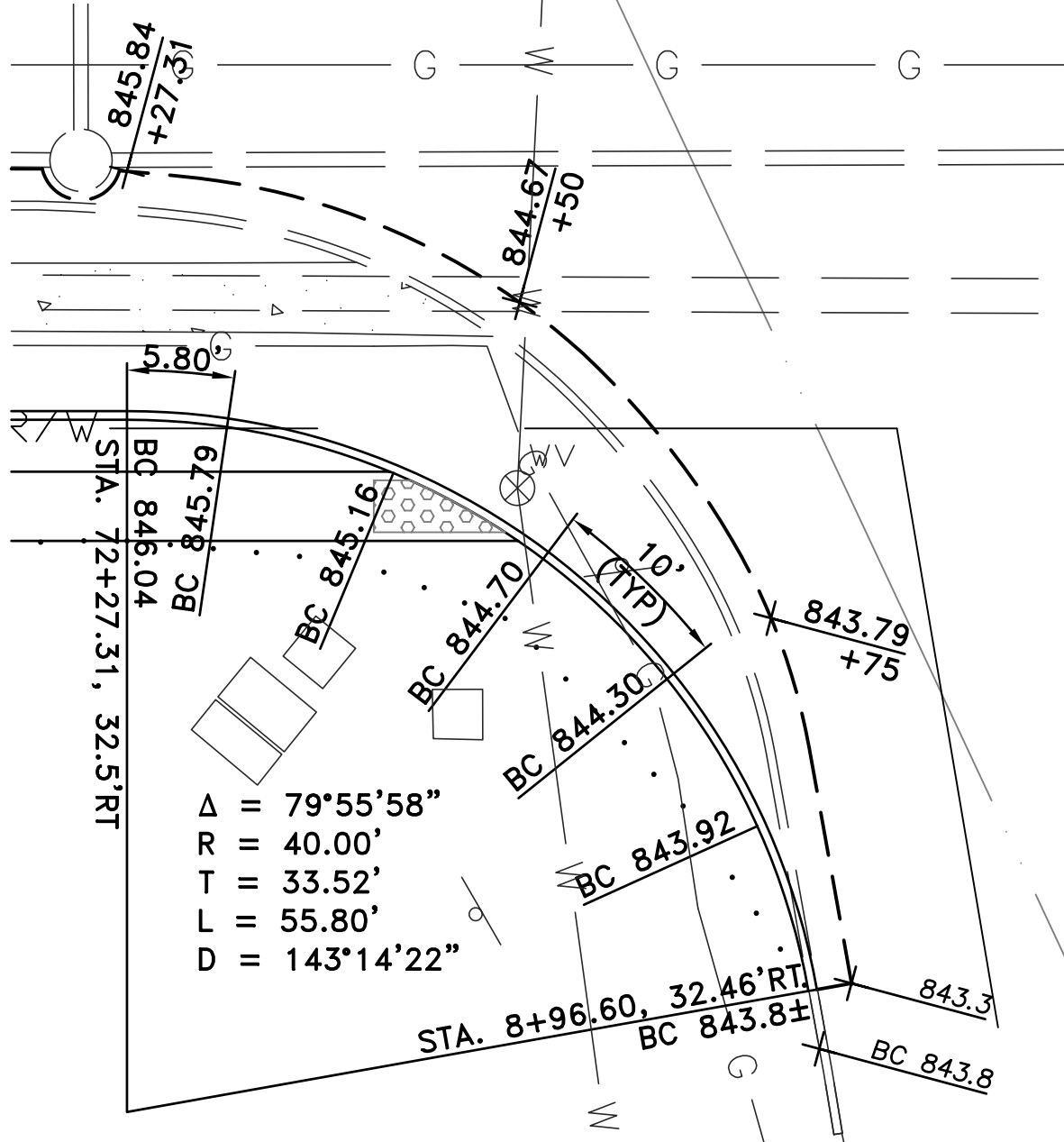
EXISTING DATA AND ELEVATIONS SHOWN ARE BASED ON THE DATA PROVIDED BY THE CLIENT. THE ENGINEER HAS CONDUCTED A VISUAL GENERAL VERIFICATION OF THE DATA AND HAS FOUND IT TO BE REASONABLY ACCURATE. THE ENGINEER HAS NOT CONDUCTED A FIELD SURVEY TO VERIFY THE DATA. THE ENGINEER HAS NOT CONDUCTED A FIELD SURVEY TO VERIFY THE DATA. THE ENGINEER HAS NOT CONDUCTED A FIELD SURVEY TO VERIFY THE DATA.



NOTES:
"BC" REFERS TO TOP/BACK OF CURB ELEVATION AND/OR LOCATION.

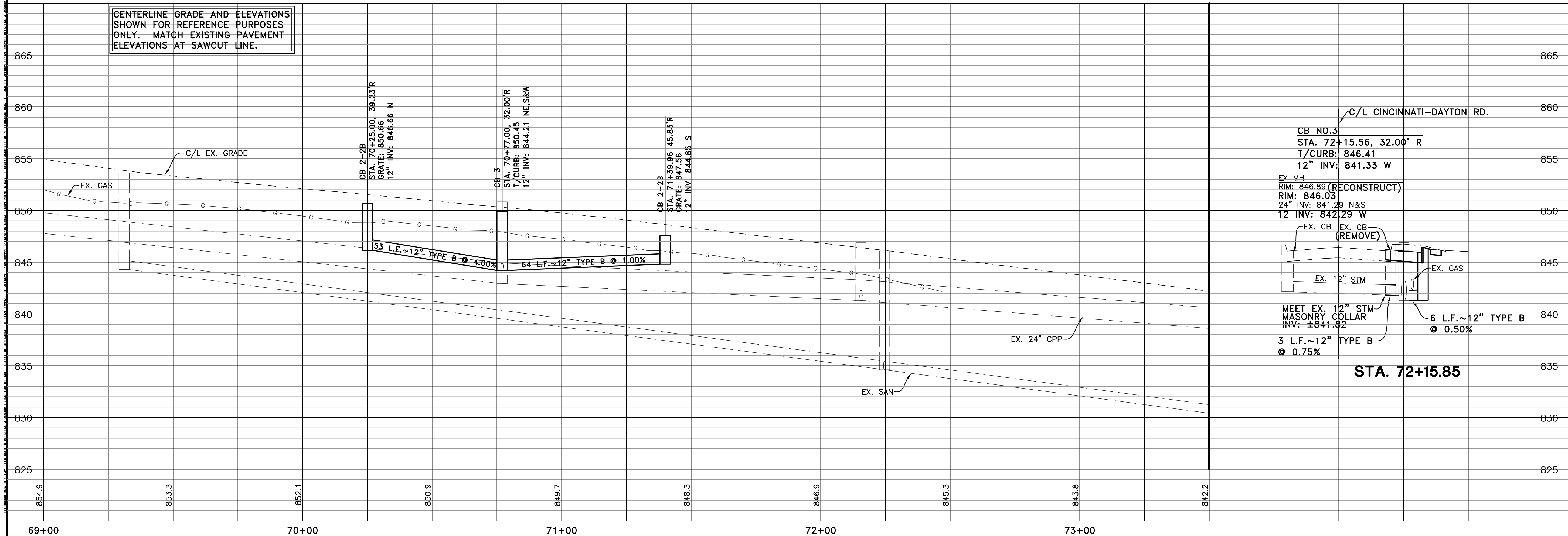
BACK OF CURB ELEVATIONS DO NOT ACCOUNT FOR CURB DEPRESSIONS AT RAMPS. ADJUST AS NECESSARY.

CONTRACTOR SHALL EXERCISE CAUTION DURING CONSTRUCTION AROUND SIGNAL EQUIPMENT TO AVOID DAMAGE TO BURIED SIGNAL CONDUIT NEAR INTERSECTION.

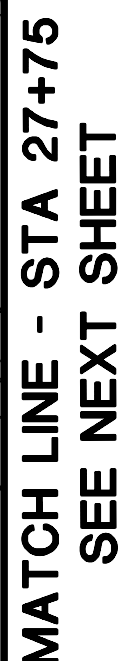


CURB DETAIL
SCALE: 1"=10'

CENTERLINE GRADE AND ELEVATIONS SHOWN FOR REFERENCE PURPOSES ONLY. MATCH EXISTING PAVEMENT ELEVATIONS AT SAWCUT LINE.

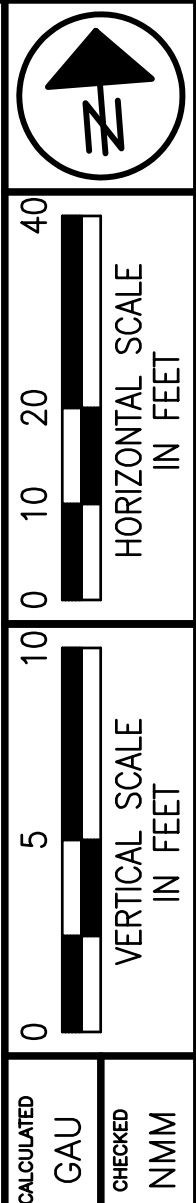


MATCH LINE - STA 22+75
SEE PREVIOUS SHEET



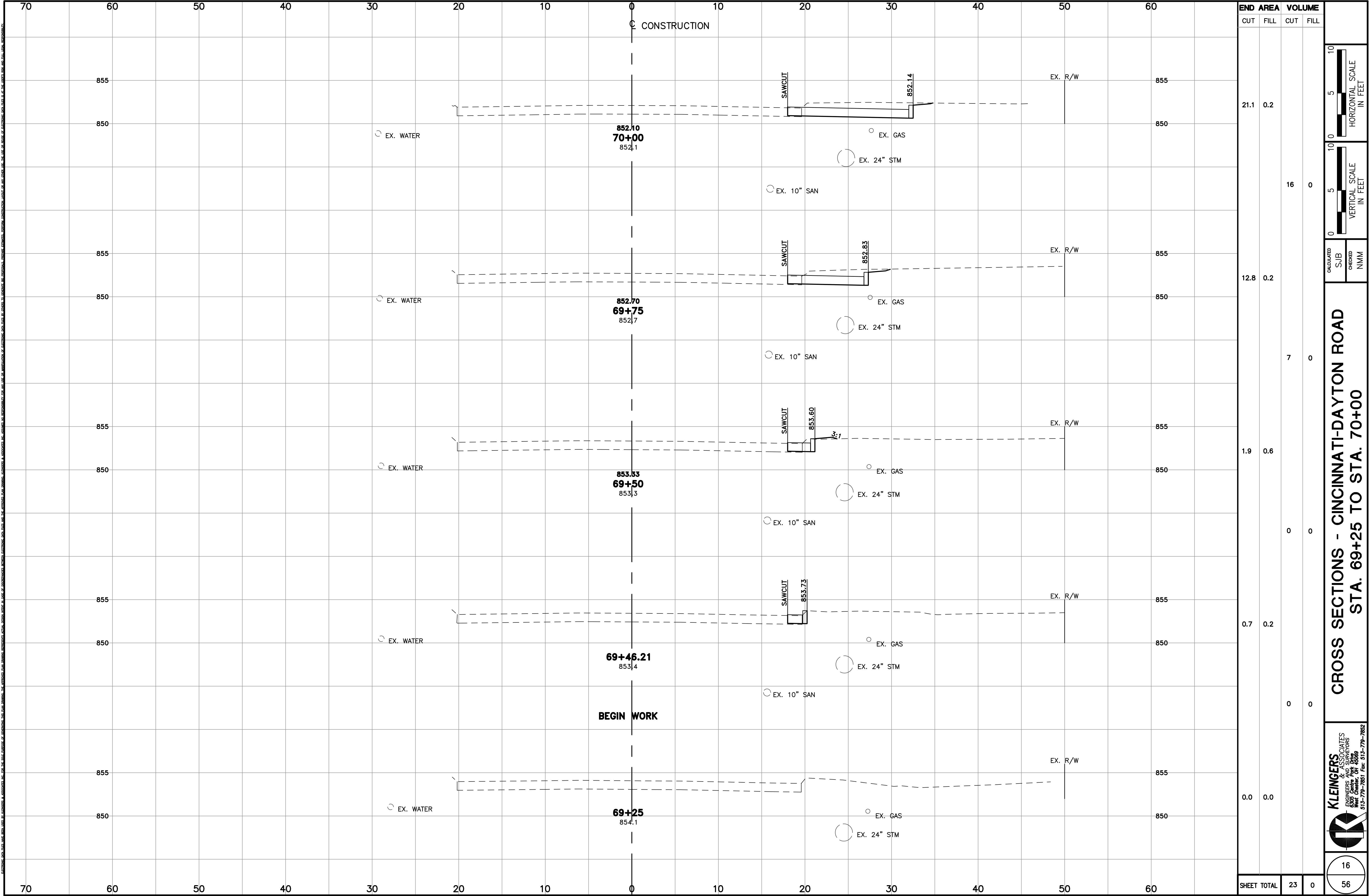
BETHANY ROAD
PLAN & PROFILE - STA 22+75 TO STA. 27+75

BETHANY ROAD

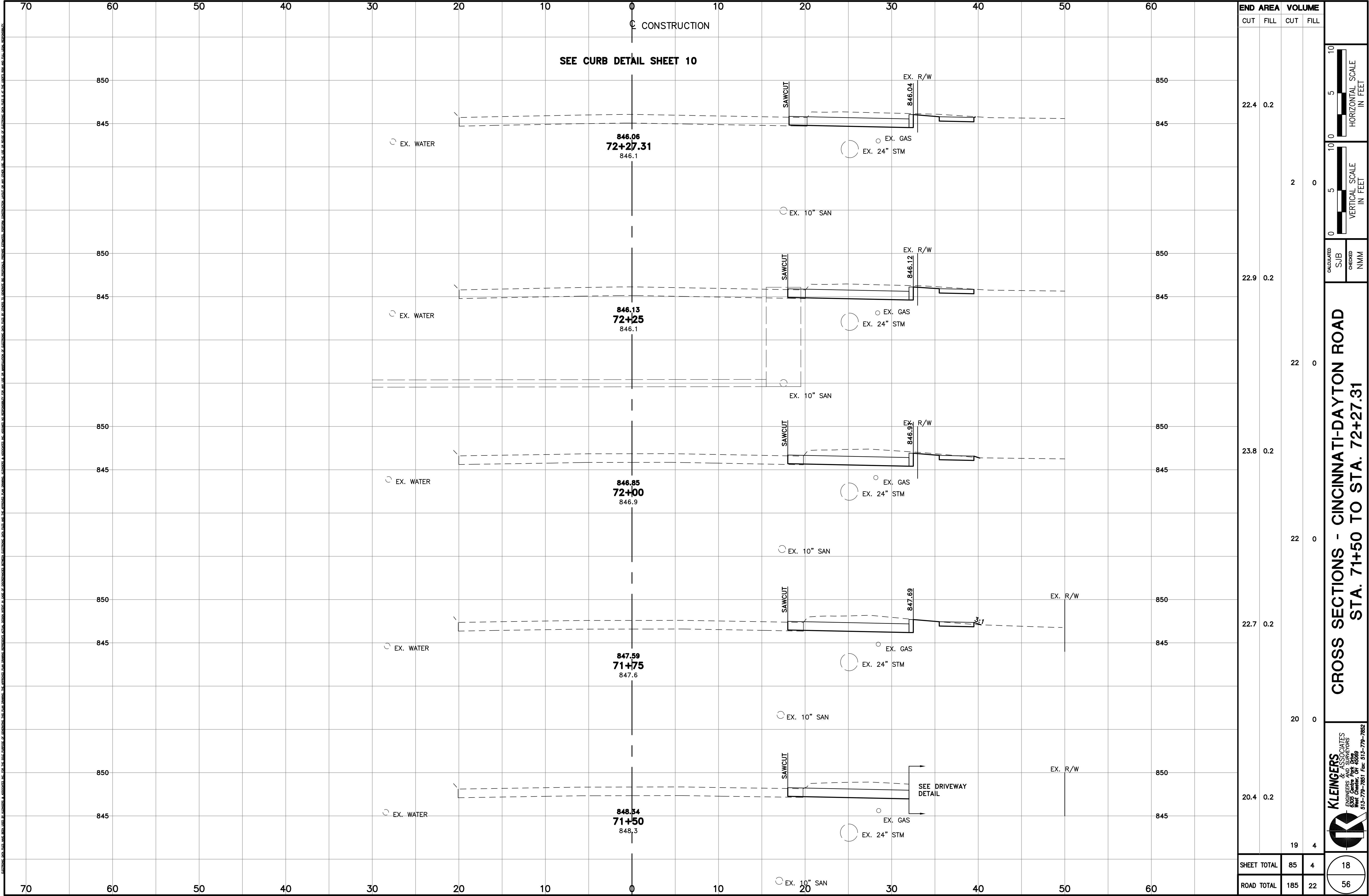


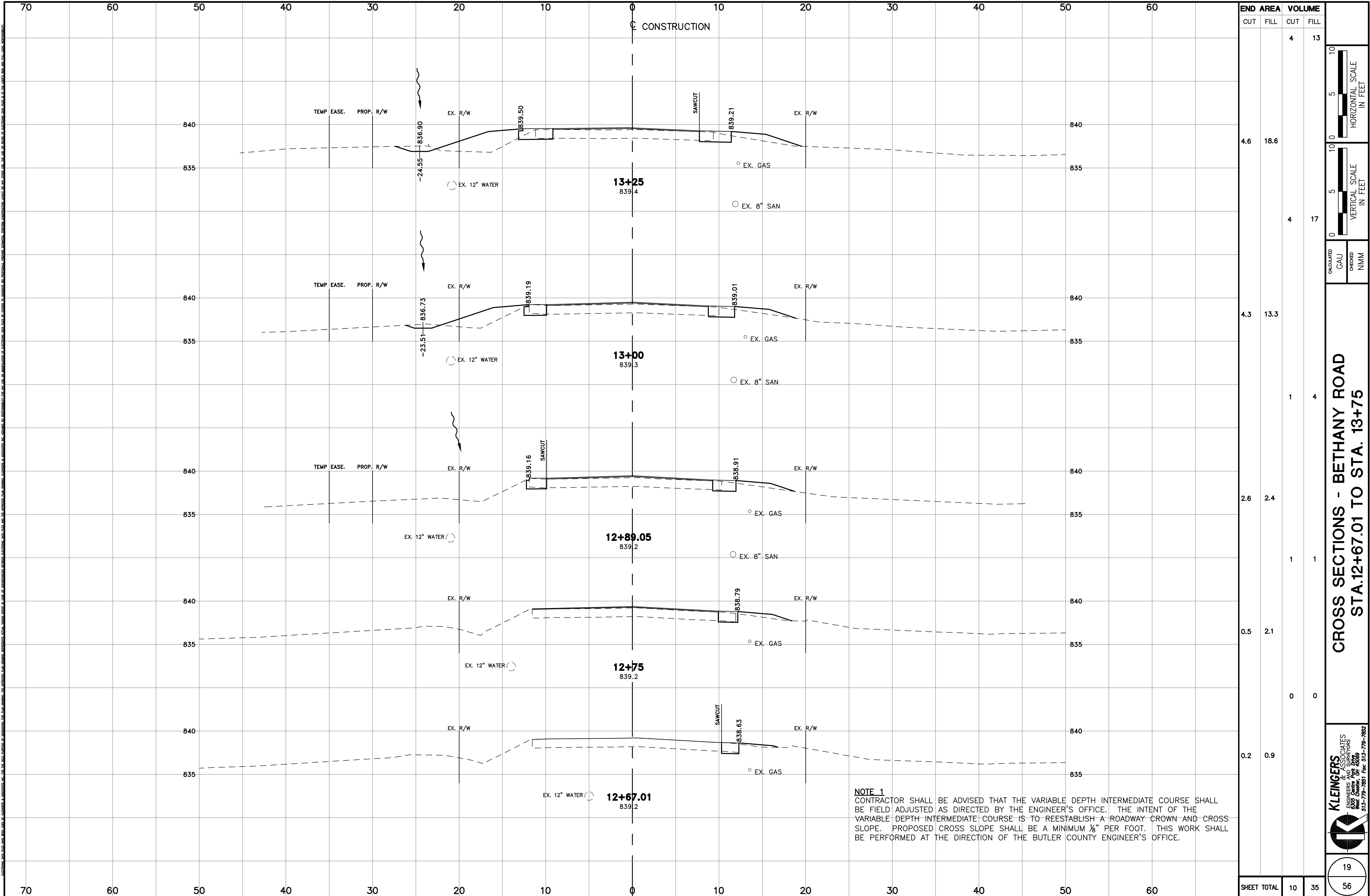
13

56



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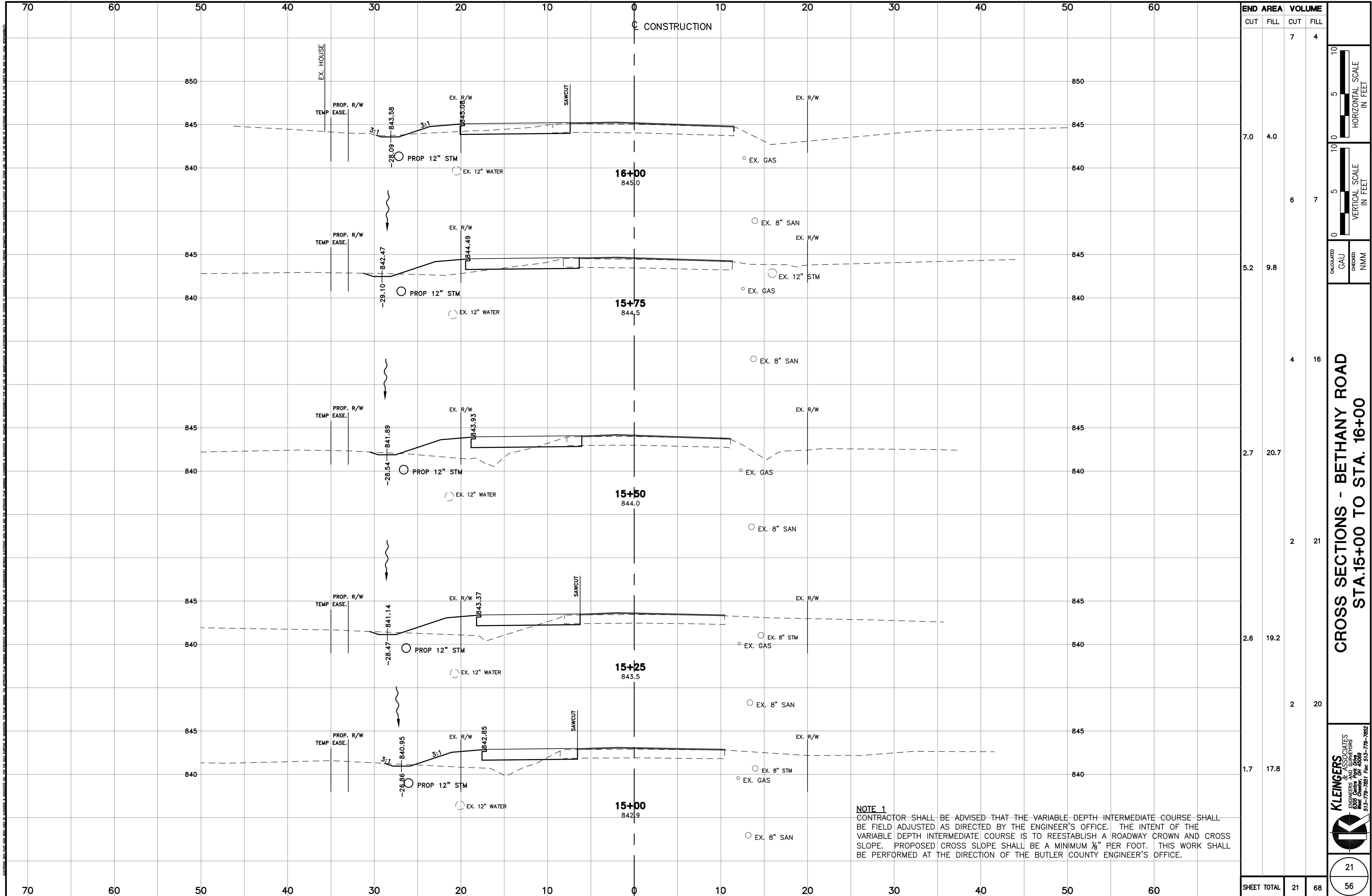


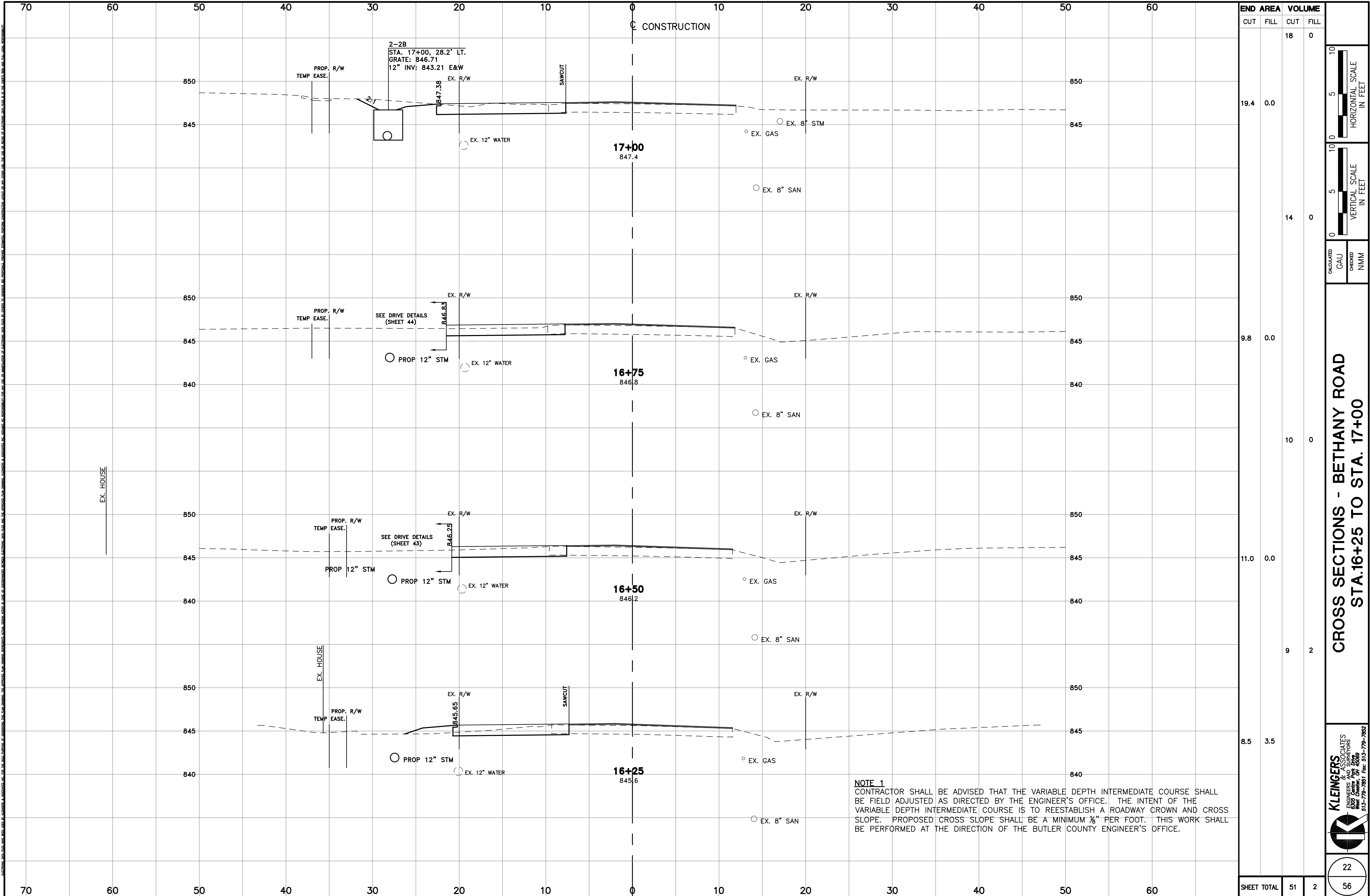


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KLEINGERS & ASSOCIATES
ENGINEERS AND SURVEYORS
West Chester, OH 43081
513-779-7851 Fax 513-779-7852





END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
			18	0
	19.4	0.0		
			14	0
	9.8	0.0		
			10	0
	11.0	0.0		
			9	2
	8.5	3.5		
SHEET TOTAL	51	2		

10
5
0

HORIZONTAL SCALE
IN FEET

10
5
0

VERTICAL SCALE
IN FEET

CALCULATED
GAU

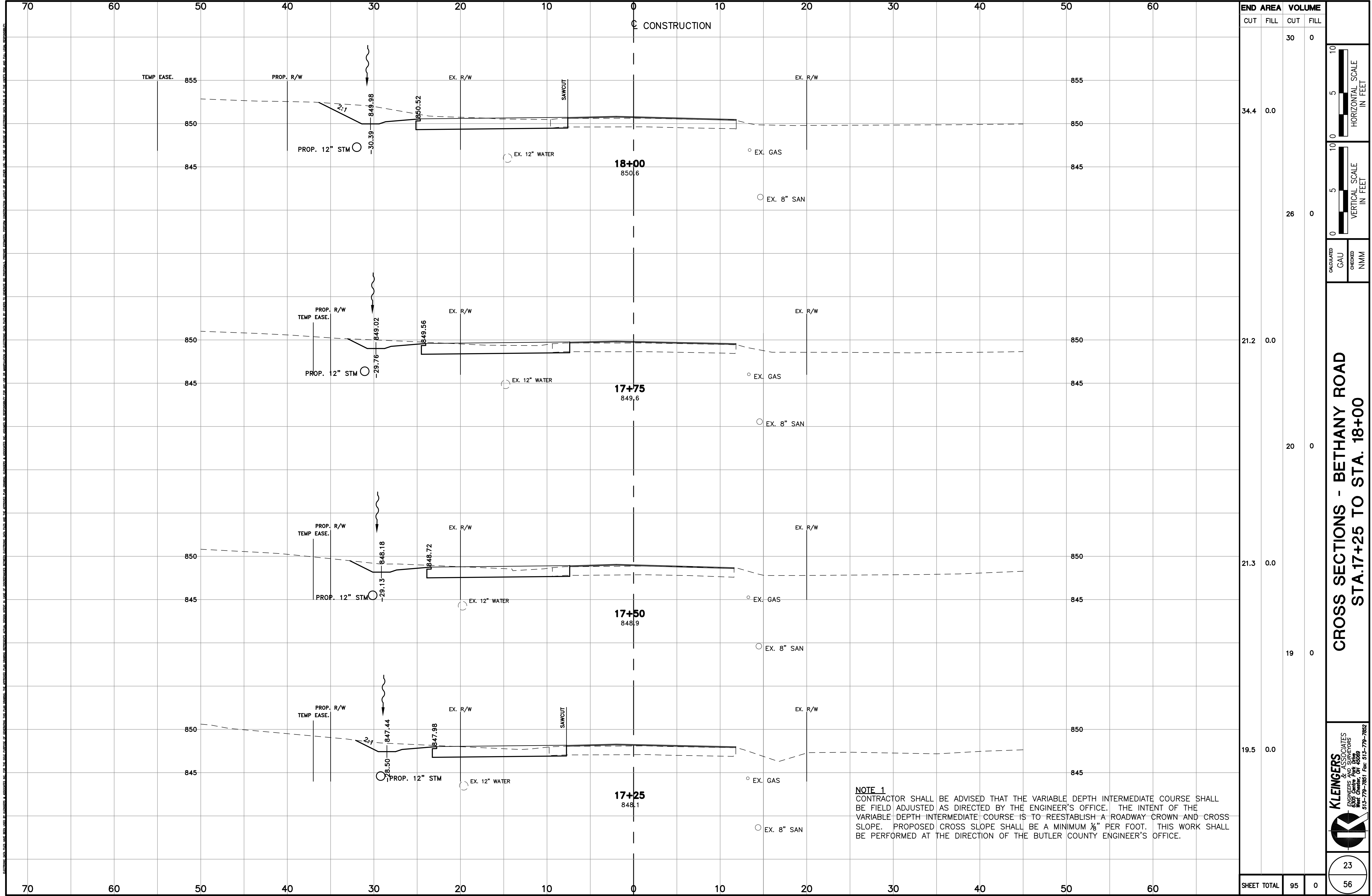
CHECKED
NMM

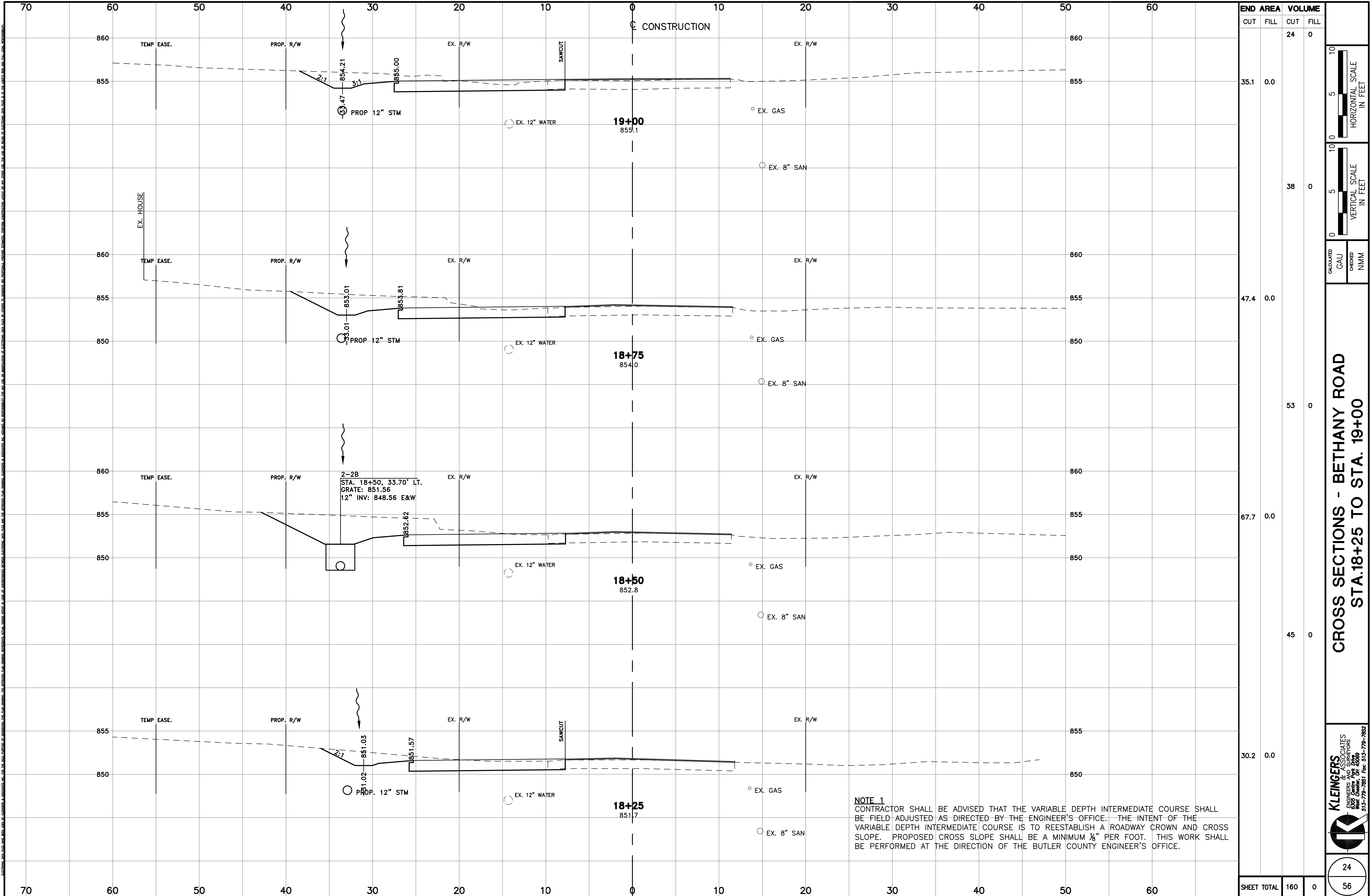
CROSS SECTIONS - BETHANY ROAD
STA.16+25 TO STA. 17+00

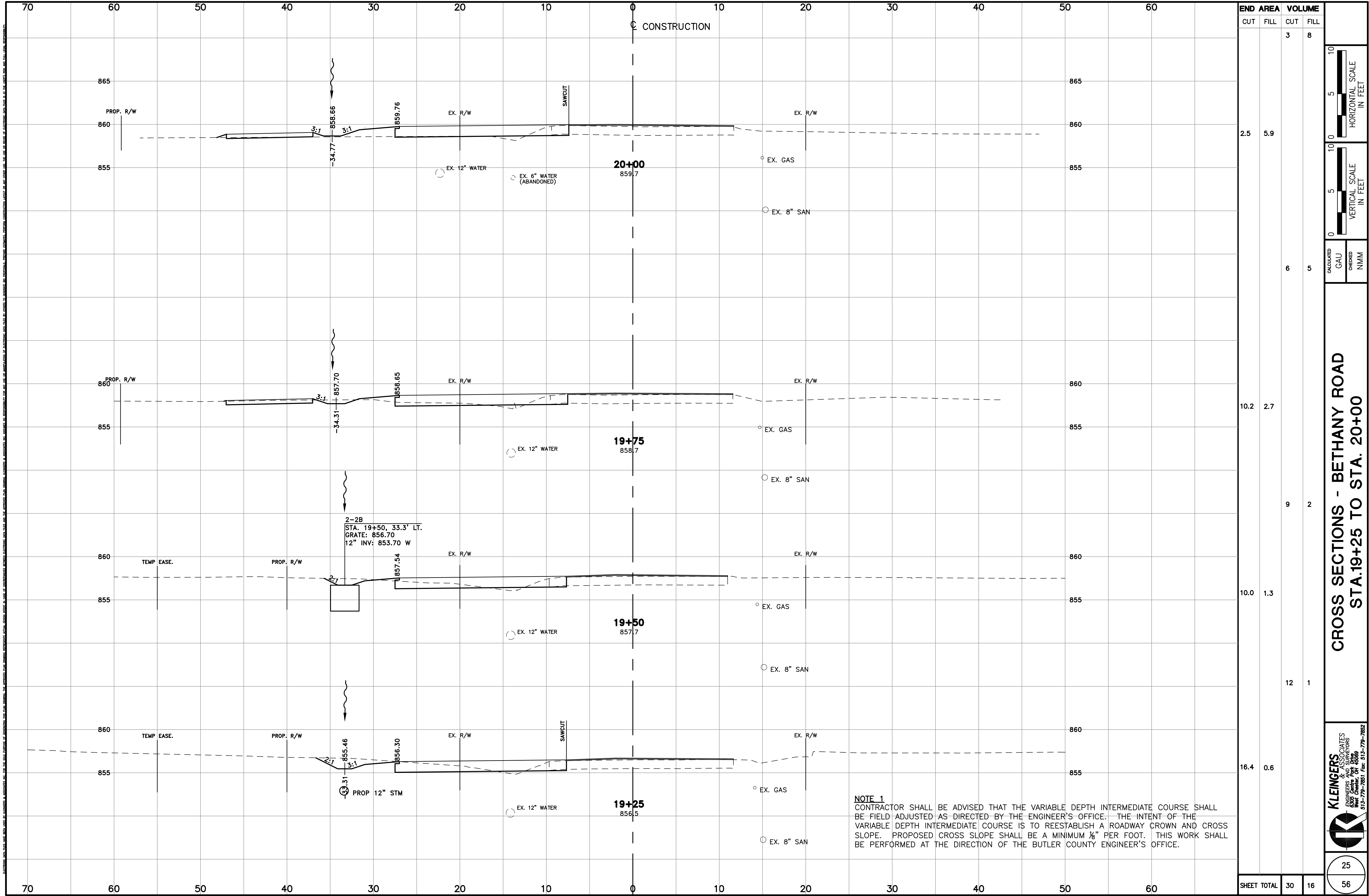
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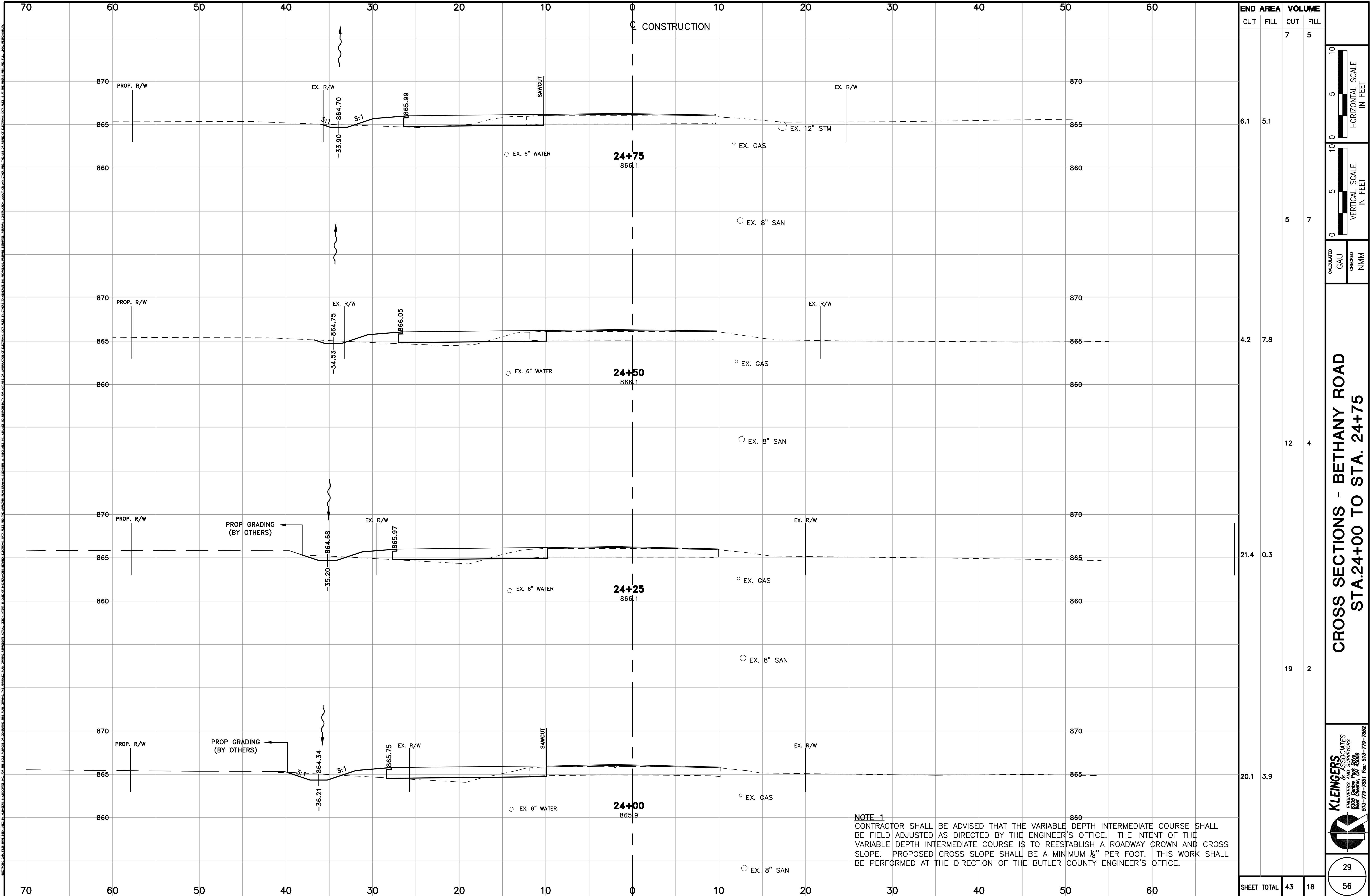
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& ASSOCIATES
ENGINEERS AND SURVEYORS
West Chester, OH 43081
513-779-7851 Fax: 513-779-7852

22
56









NOTE 1
CONTRACTOR SHALL BE ADVISED THAT THE VARIABLE DEPTH INTERMEDIATE COURSE SHALL BE FIELD ADJUSTED AS DIRECTED BY THE ENGINEER'S OFFICE. THE INTENT OF THE VARIABLE DEPTH INTERMEDIATE COURSE IS TO REESTABLISH A ROADWAY CROWN AND CROSS SLOPE. PROPOSED CROSS SLOPE SHALL BE A MINIMUM 1/8" PER FOOT. THIS WORK SHALL BE PERFORMED AT THE DIRECTION OF THE BUTLER COUNTY ENGINEER'S OFFICE.

END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
			7	5
6.1	5.1			
		5	7	
4.2	7.8			
21.4	0.3		12	4
		19	2	
20.1	3.9			
SHEET TOTAL		43	18	

10
5
0

HORIZONTAL SCALE
IN FEET

10
5
0

VERTICAL SCALE
IN FEET

CALCULATED
GAU

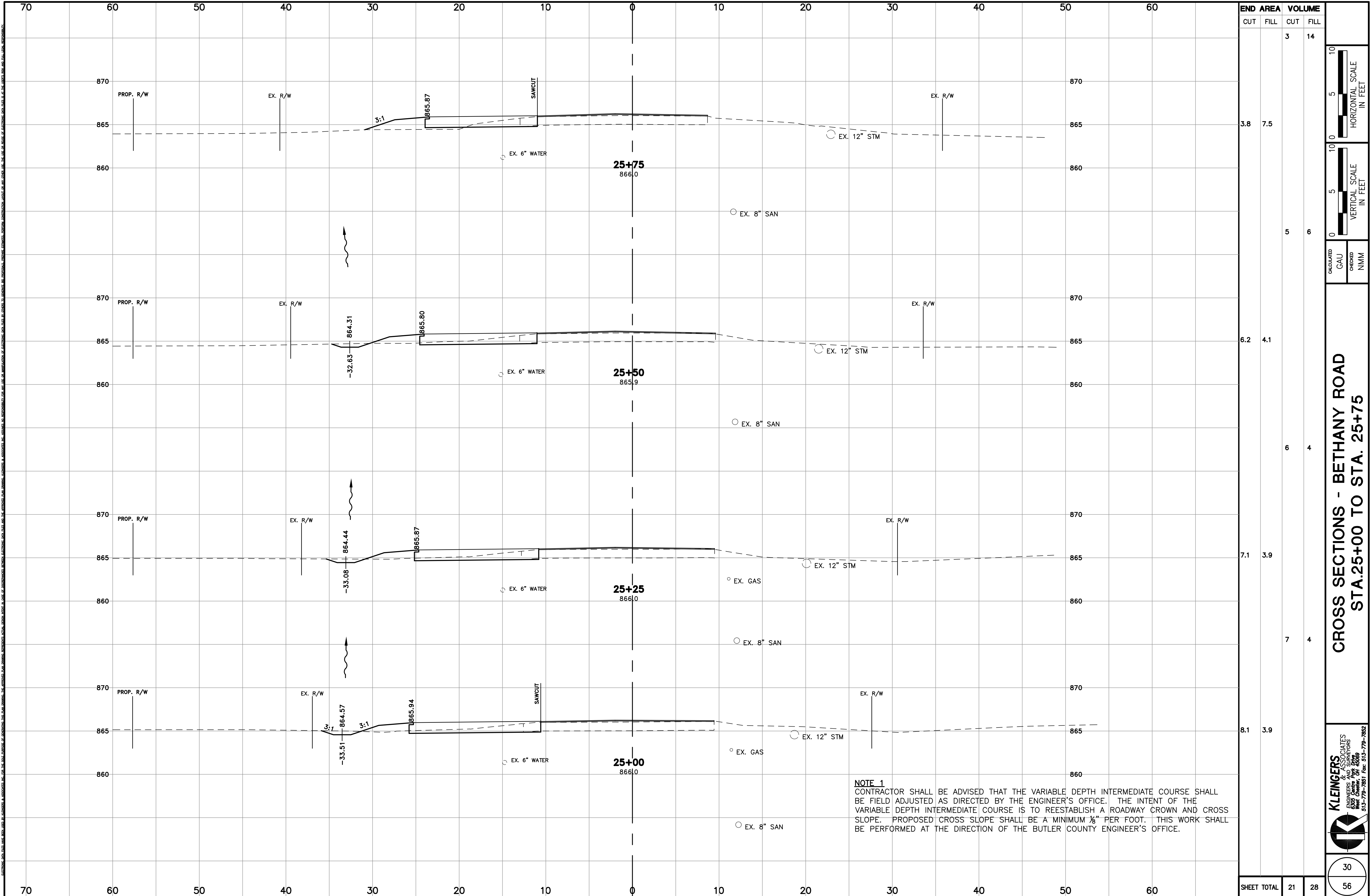
CHECKED
NMM

CROSS SECTIONS - BETHANY ROAD
STA.24+00 TO STA. 24+75

K

KLEINGERS
& ASSOCIATES
ENGINEERS AND SURVEYORS
West Chester, OH 43081
513-779-7851 Fax: 513-779-7852

29
56



NOTE 1
CONTRACTOR SHALL BE ADVISED THAT THE VARIABLE DEPTH INTERMEDIATE COURSE SHALL BE FIELD ADJUSTED AS DIRECTED BY THE ENGINEER'S OFFICE. THE INTENT OF THE VARIABLE DEPTH INTERMEDIATE COURSE IS TO REESTABLISH A ROADWAY CROWN AND CROSS SLOPE. PROPOSED CROSS SLOPE SHALL BE A MINIMUM 1/8" PER FOOT. THIS WORK SHALL BE PERFORMED AT THE DIRECTION OF THE BUTLER COUNTY ENGINEER'S OFFICE.

END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
			3	14
	3.8	7.5		
			5	6
	6.2	4.1		
			6	4
	7.1	3.9		
			7	4
	8.1	3.9		
SHEET TOTAL		21	28	

10
5
0
10
5
0

HORIZONTAL SCALE
IN FEET

10
5
0

VERTICAL SCALE
IN FEET

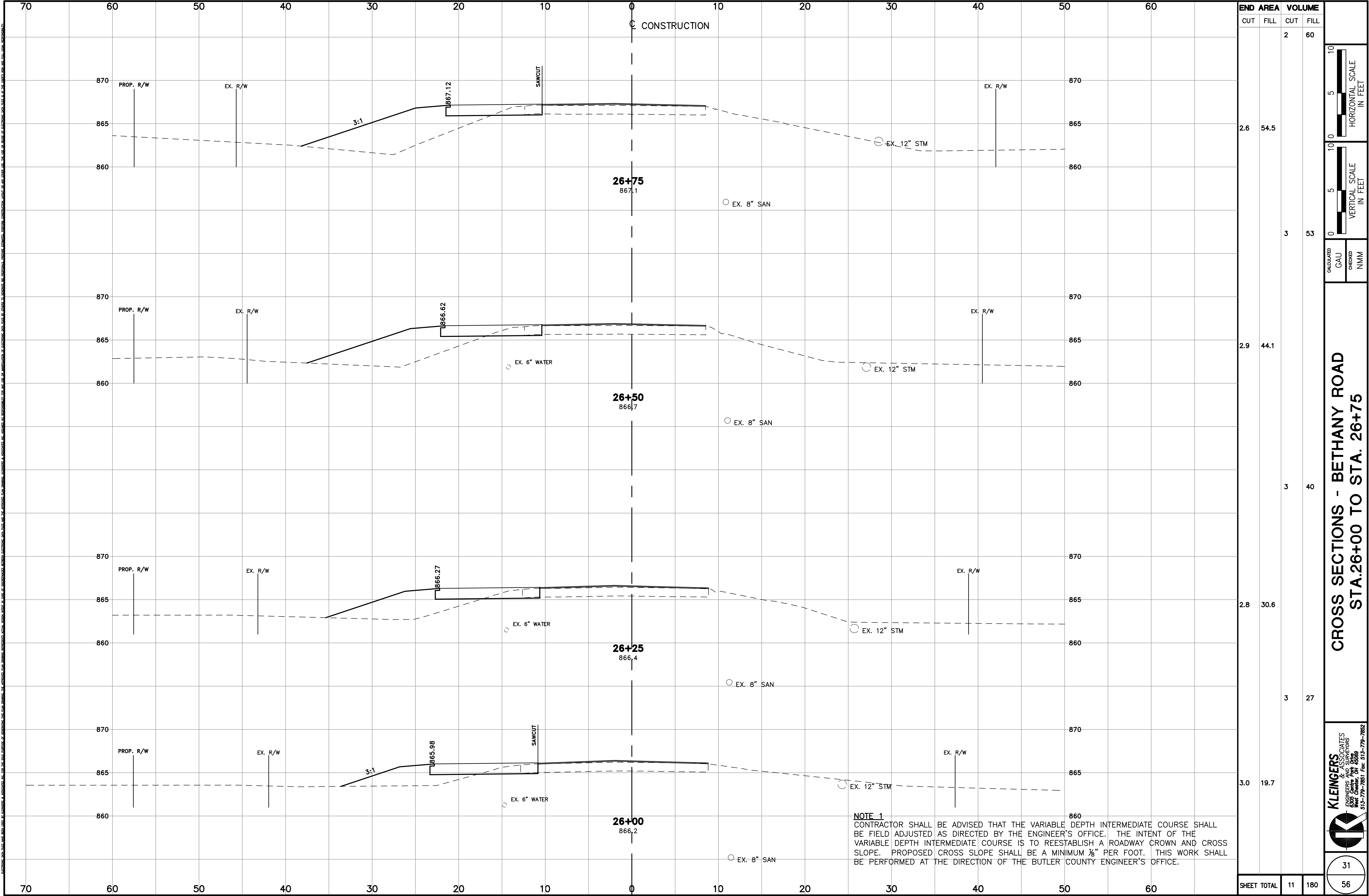
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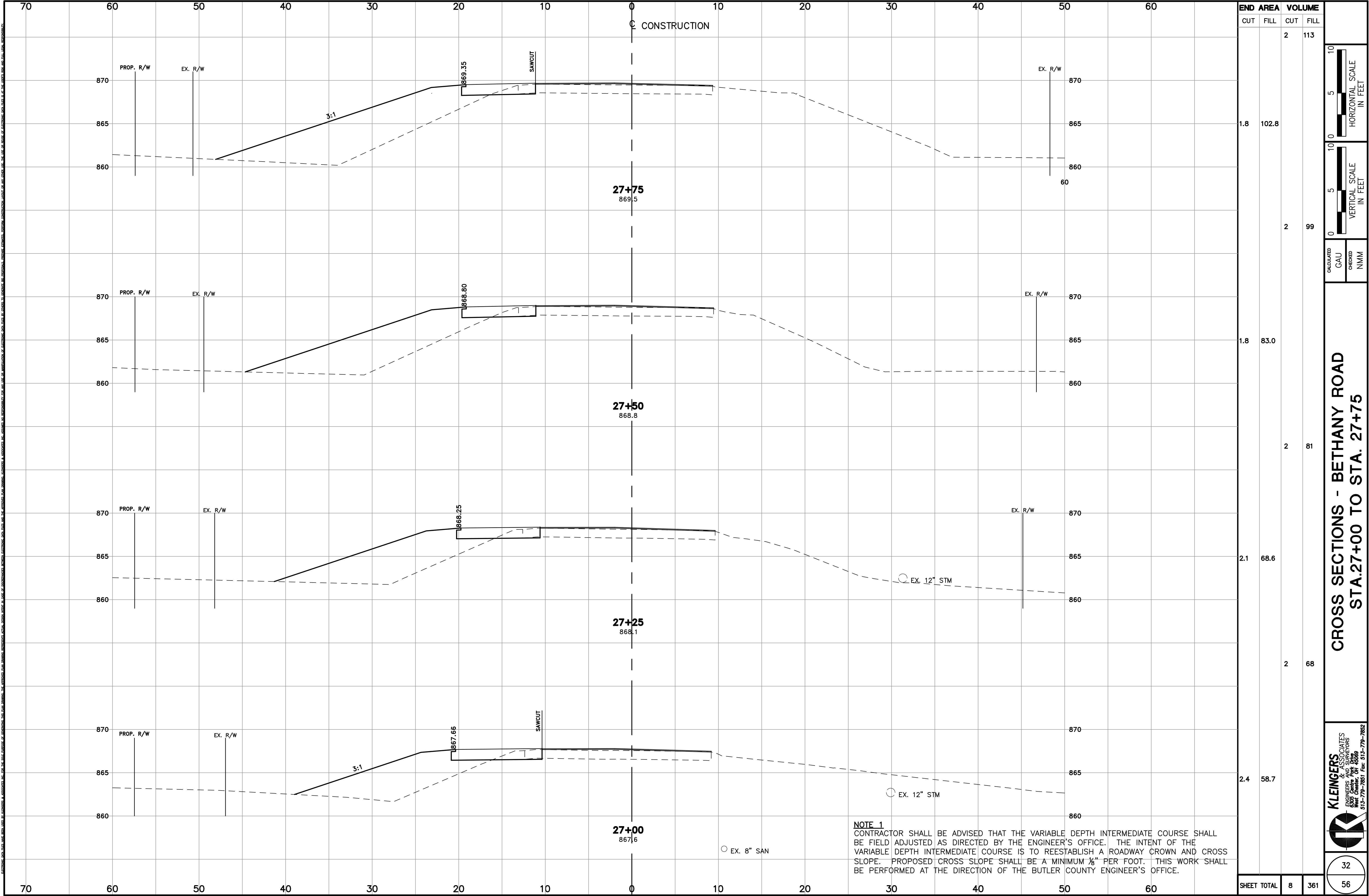
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NMM

CROSS SECTIONS - BETHANY ROAD
STA.25+00 TO STA. 25+75

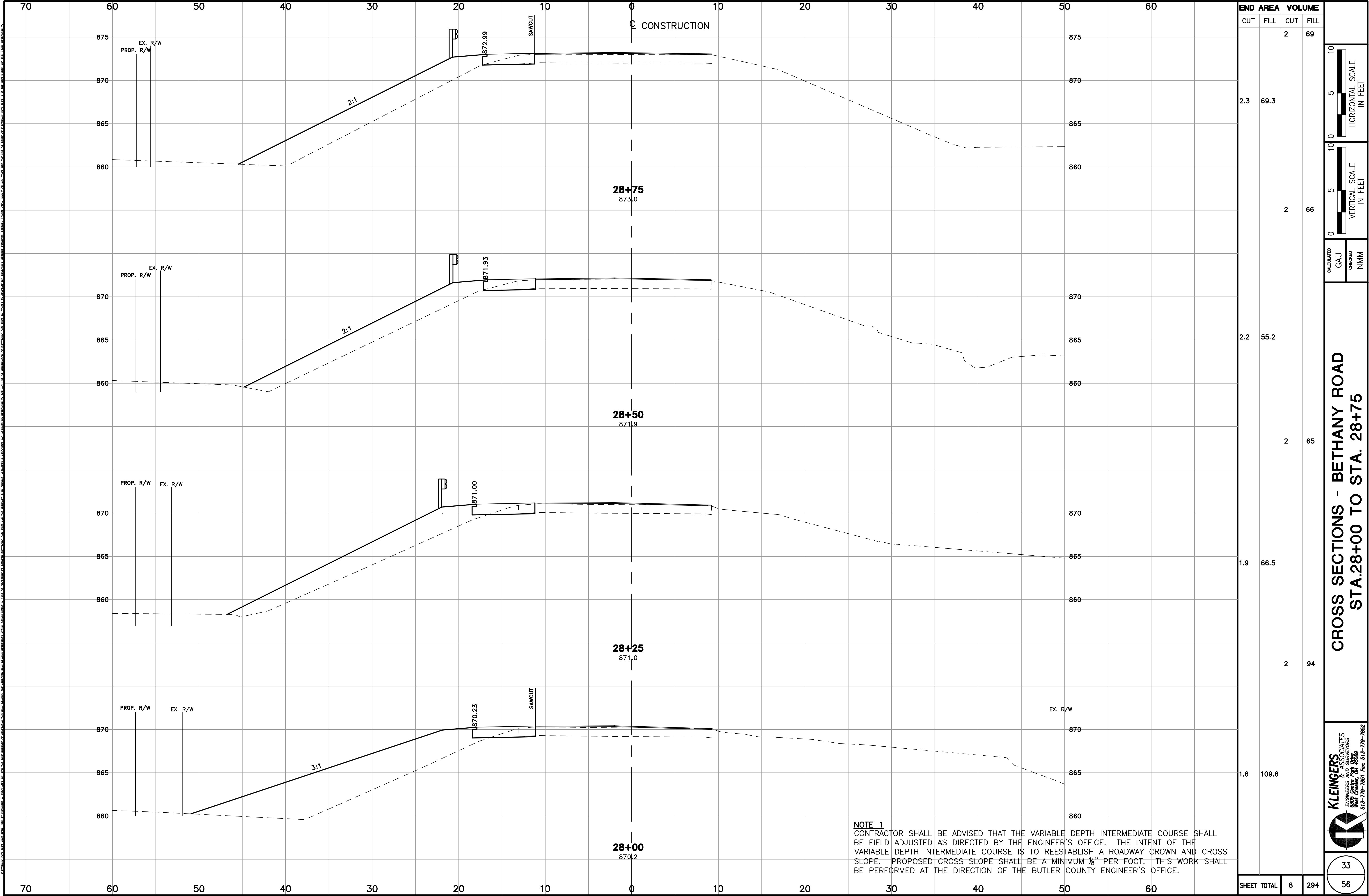
K
KLEINGERS
& ASSOCIATES
ENGINEERS AND SURVEYORS
West Chester, OH 43081
513-779-7851 Fax: 513-779-7852

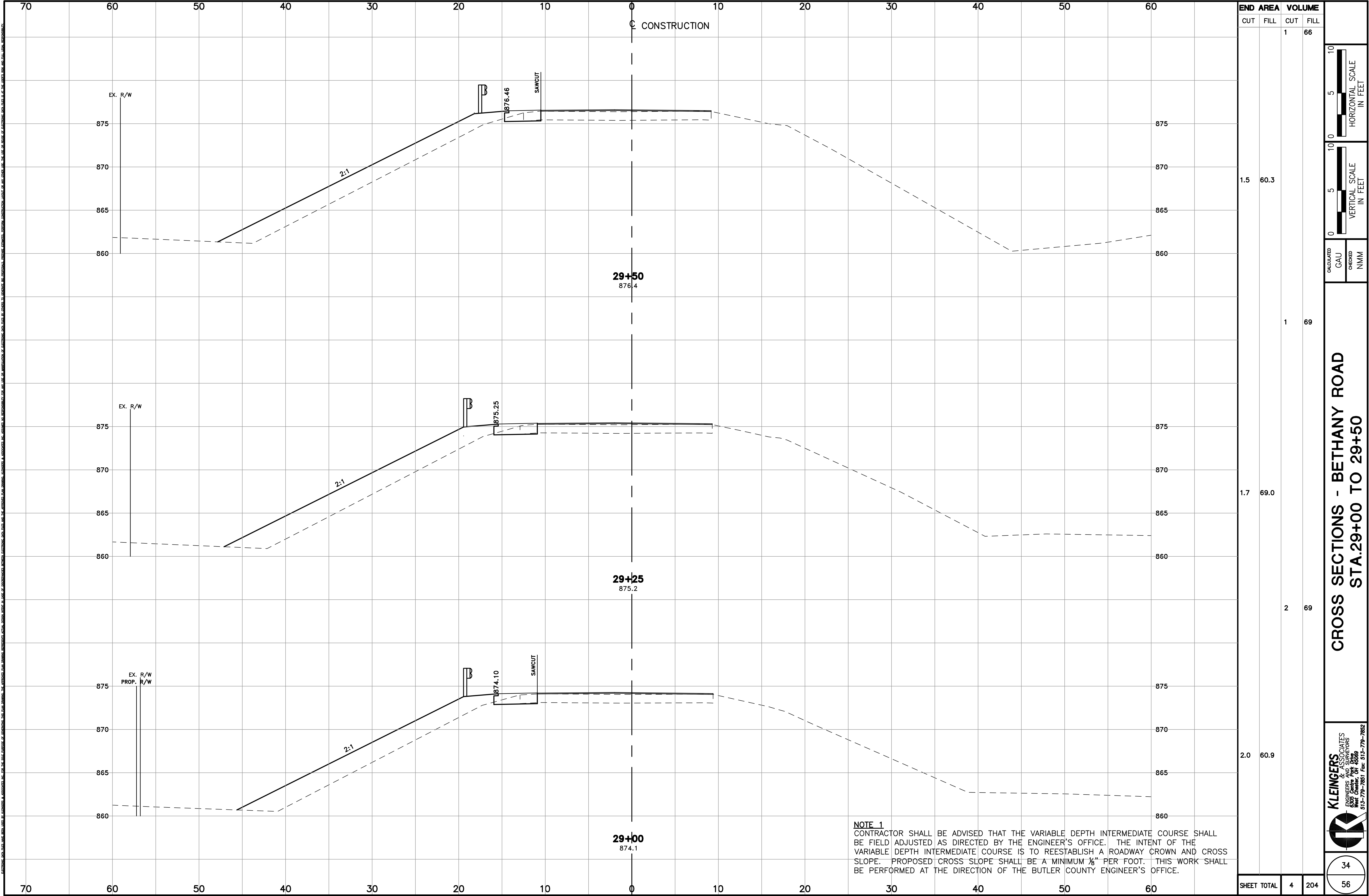
30
56

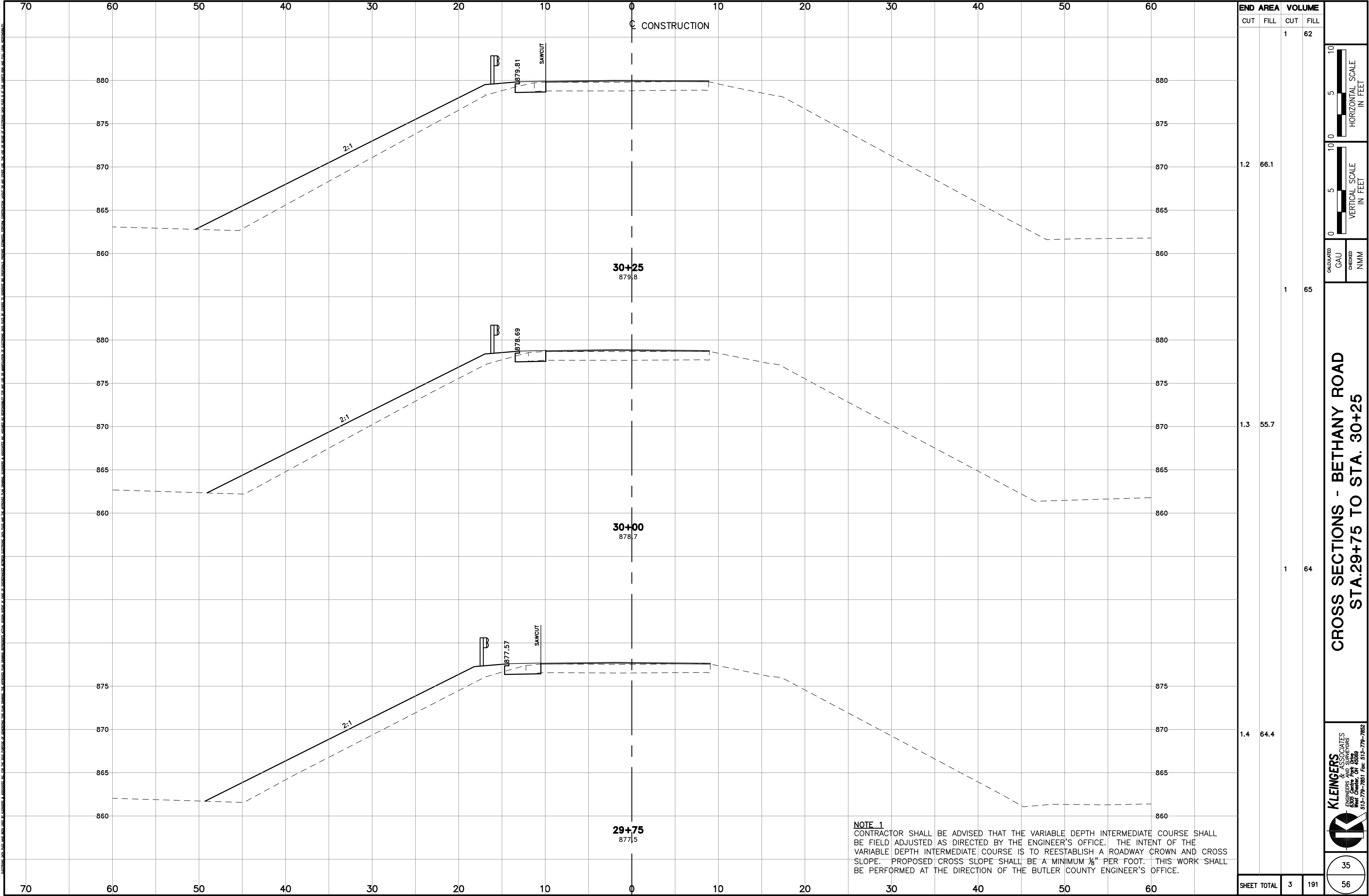


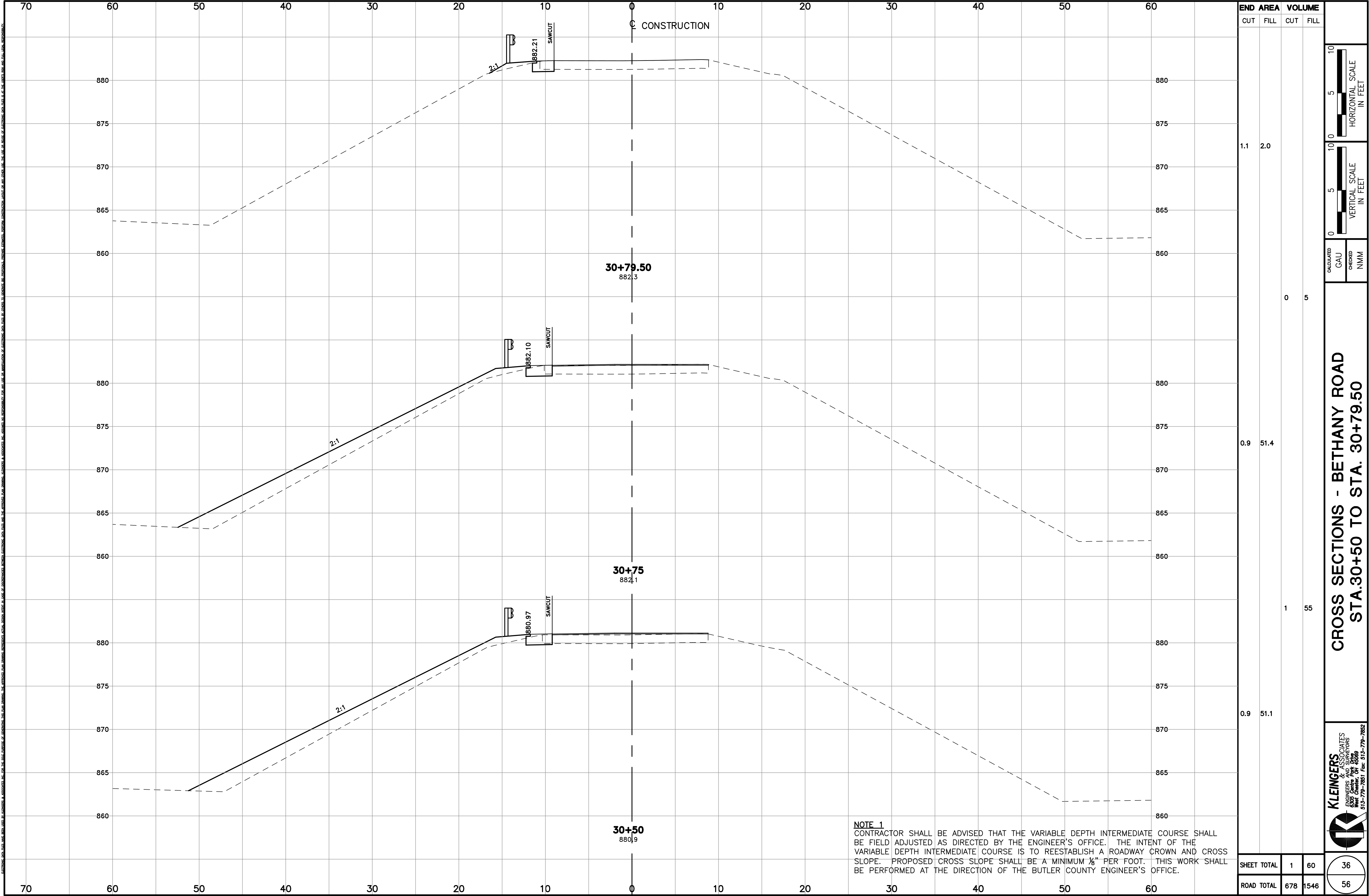


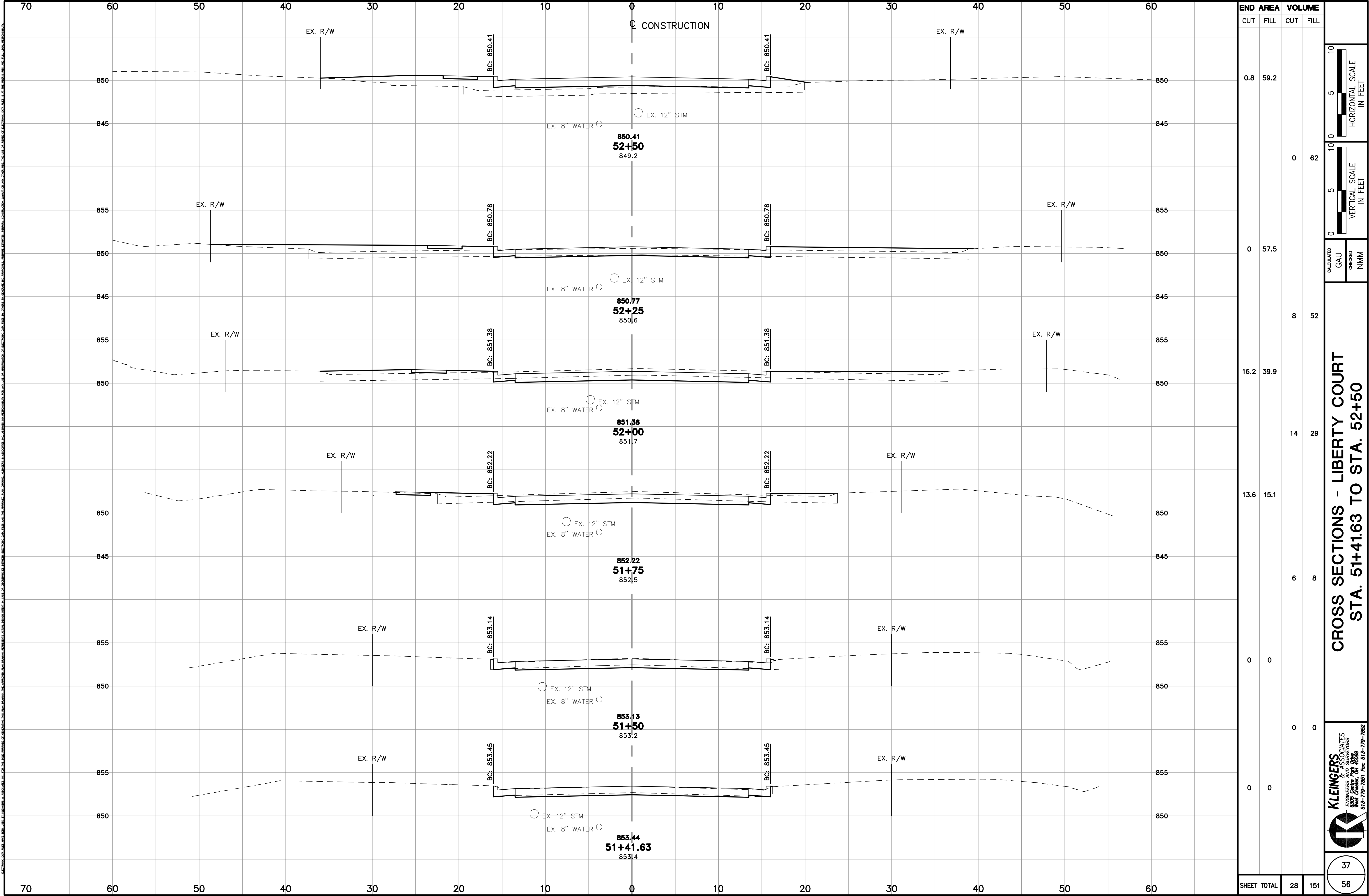
NOTE 1
CONTRACTOR SHALL BE ADVISED THAT THE VARIABLE DEPTH INTERMEDIATE COURSE SHALL BE FIELD ADJUSTED AS DIRECTED BY THE ENGINEER'S OFFICE. THE INTENT OF THE VARIABLE DEPTH INTERMEDIATE COURSE IS TO REESTABLISH A ROADWAY CROWN AND CROSS SLOPE. PROPOSED CROSS SLOPE SHALL BE A MINIMUM 1/8" PER FOOT. THIS WORK SHALL BE PERFORMED AT THE DIRECTION OF THE BUTLER COUNTY ENGINEER'S OFFICE.



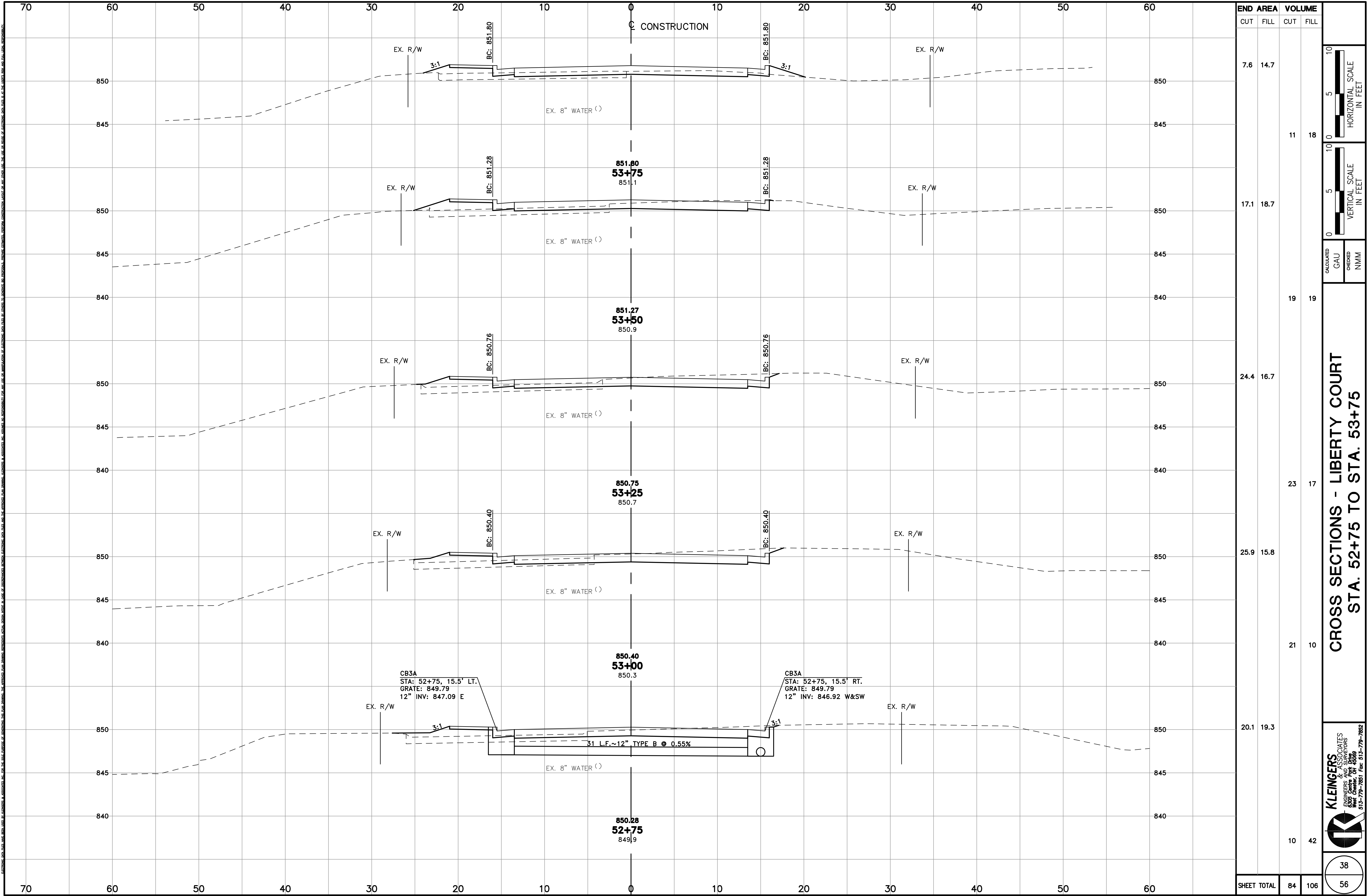


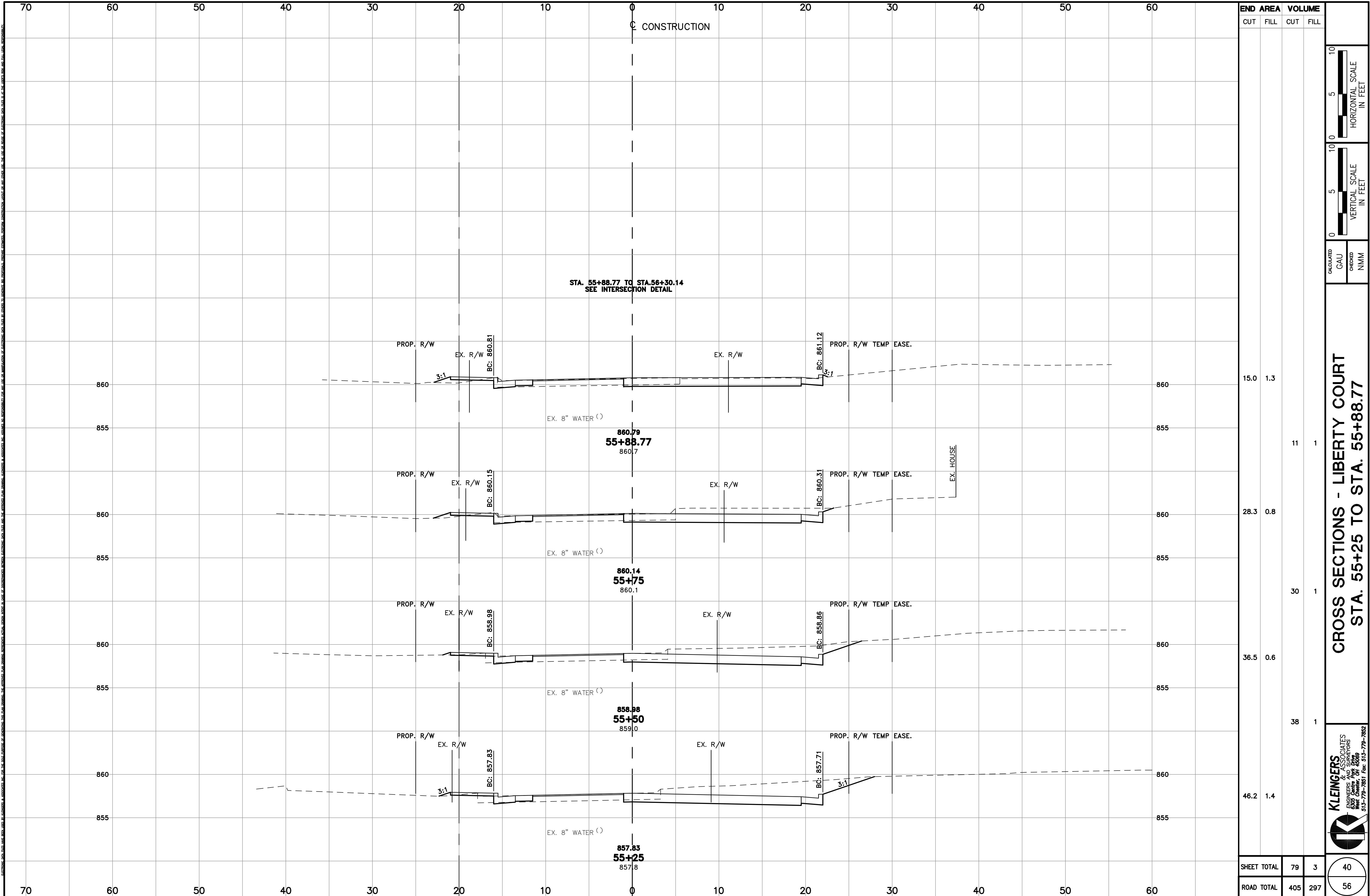






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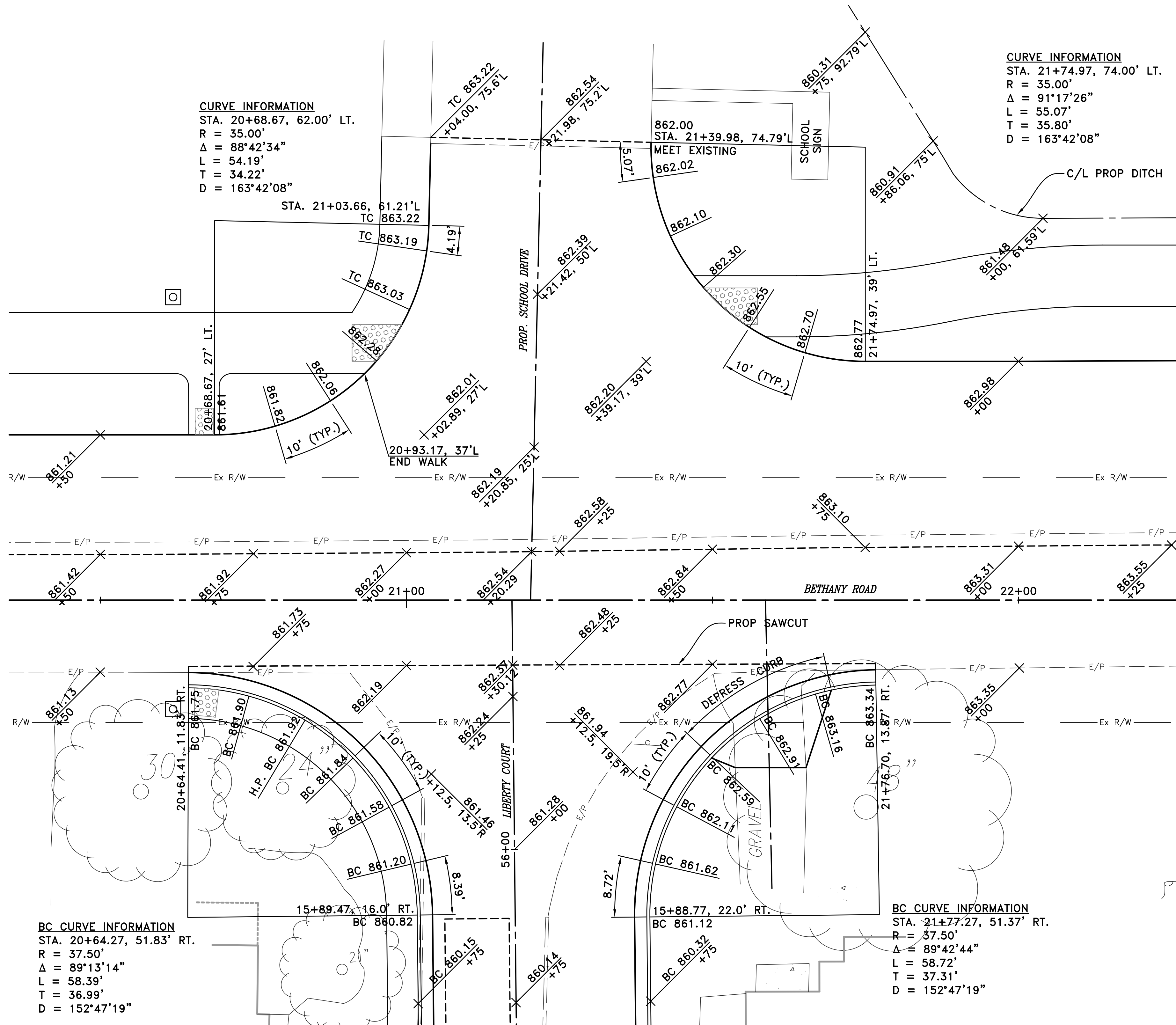


CROSS SECTIONS - LIBERTY COURT
STA. 55+25 TO STA. 55+88.77



40
56

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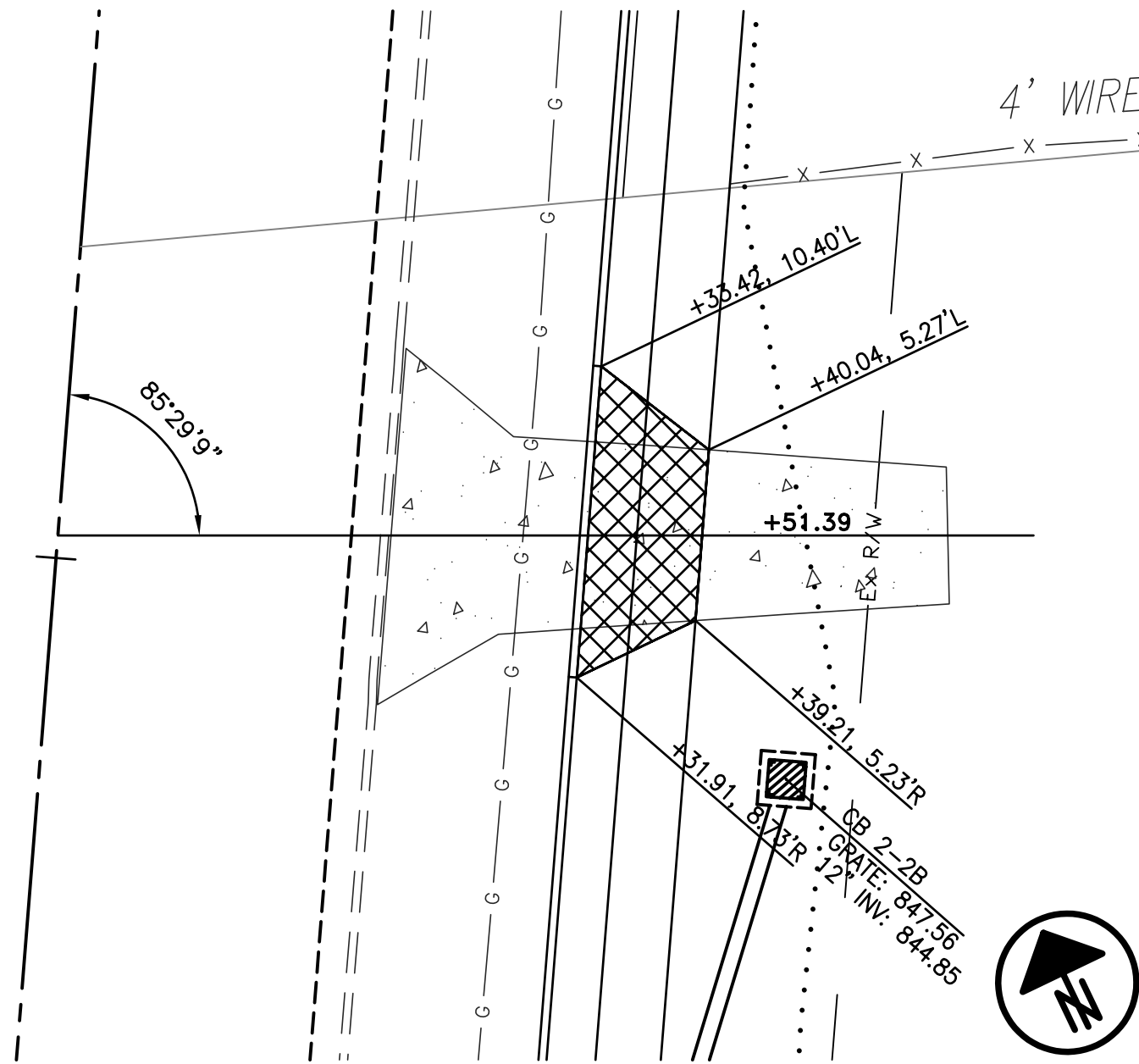
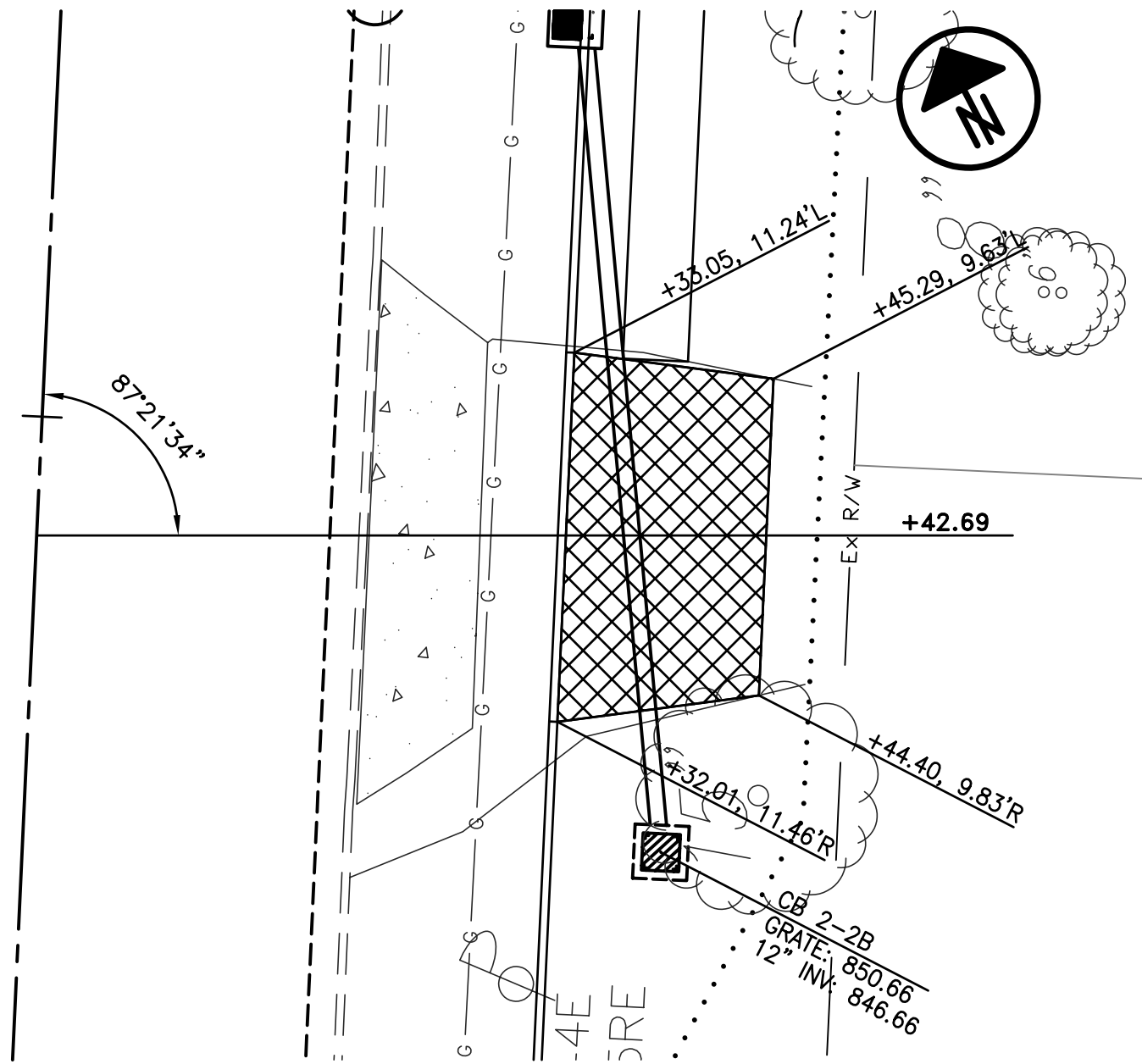
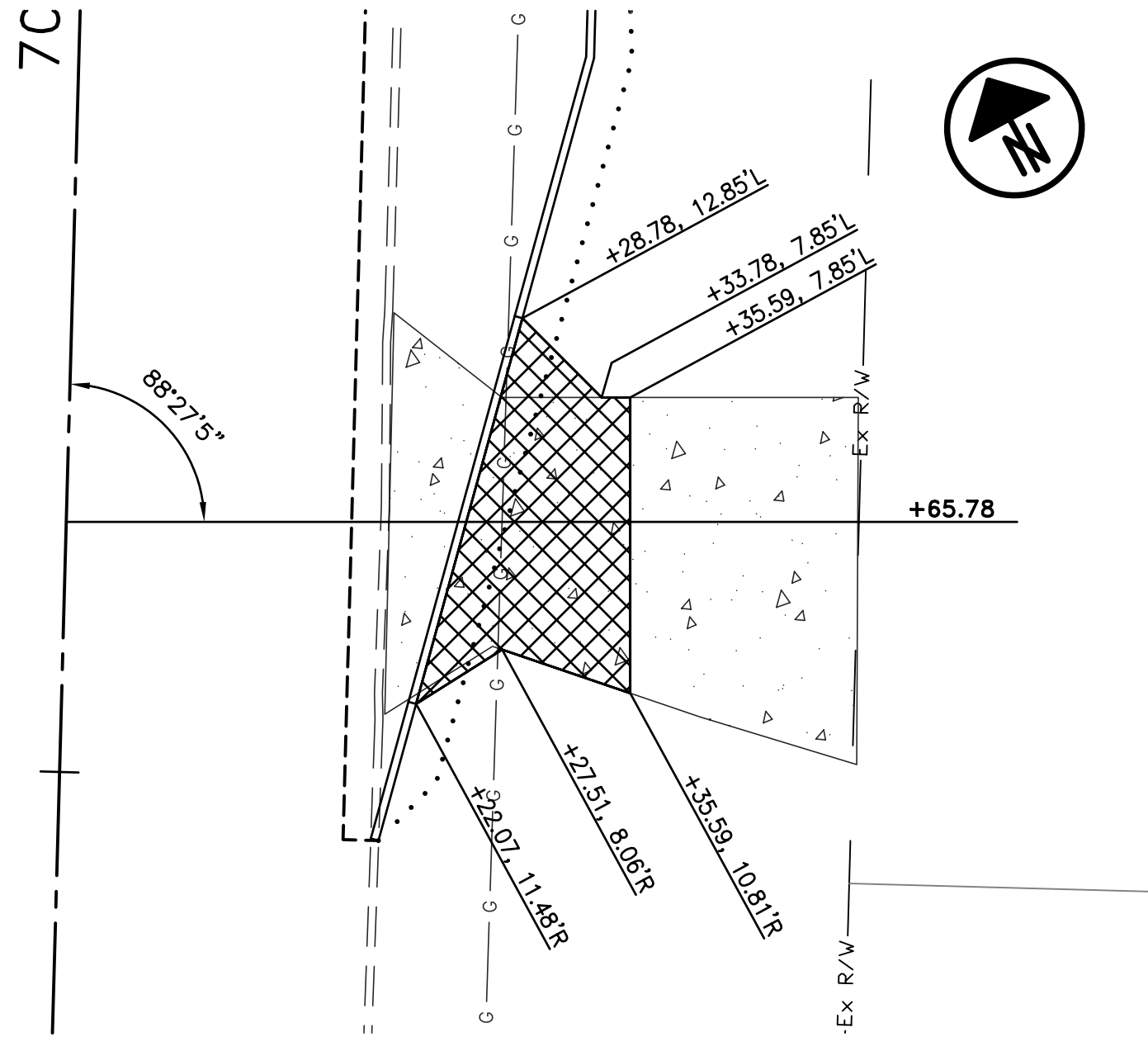


NOTE:
"BC" REFERS TO TOP/BACK OF CURB
ELEVATION AND/OR LOCATION.

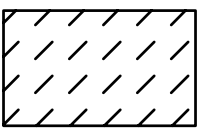
"TC" REFERS TO TOP OF CURB
ELEVATION AND/OR LOCATION.

BACK OF CURB ELEVATIONS DO NOT
ACCOUNT FOR CURB DEPRESSIONS AT
RAMPS. ADJUST AS NECESSARY.

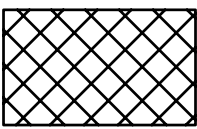
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PAVEMENT COMPOSITION FOR DRIVEWAYS

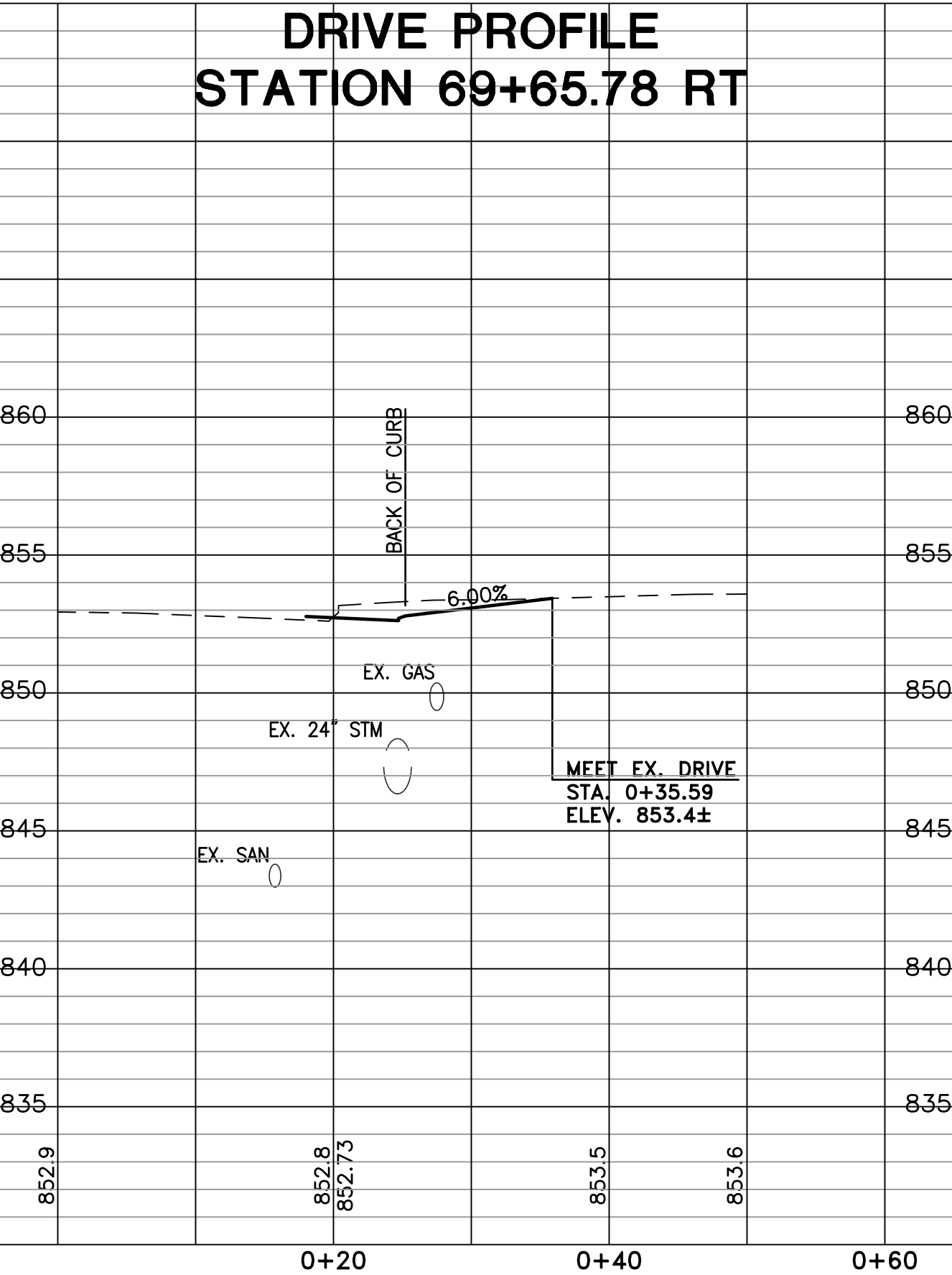


RESIDENTIAL ASPHALT DRIVEWAY APPROACH
448 - 1-1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG64-22
301 - 4" ASPHALT CONCRETE BASE, PG64-22
204 - SUBGRADE COMPACTION

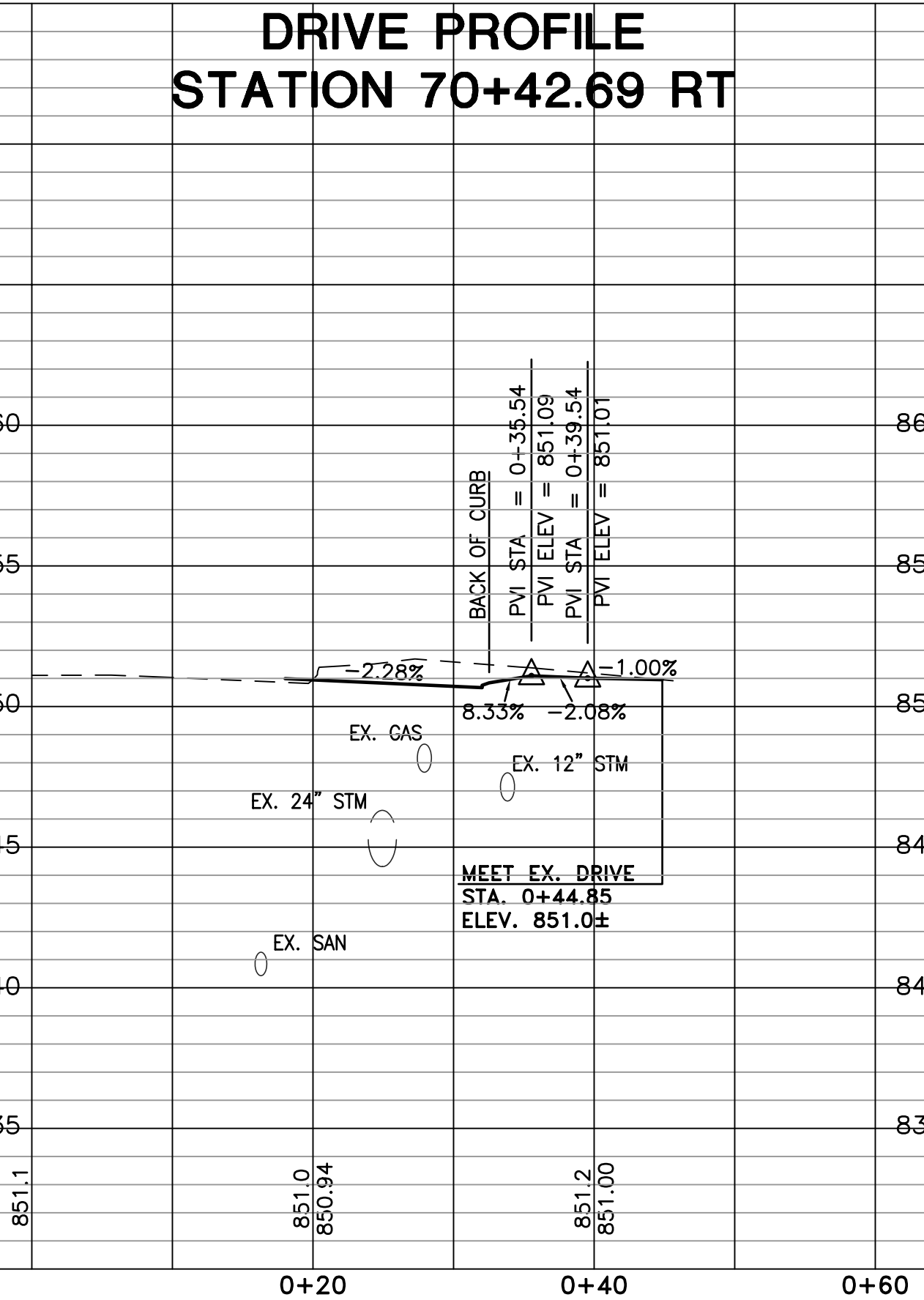


RESIDENTIAL CONCRETE DRIVEWAY APPROACH
452 - 6" NON-REINFORCED CONCRETE PAVEMENT
204 - SUBGRADE COMPACTION

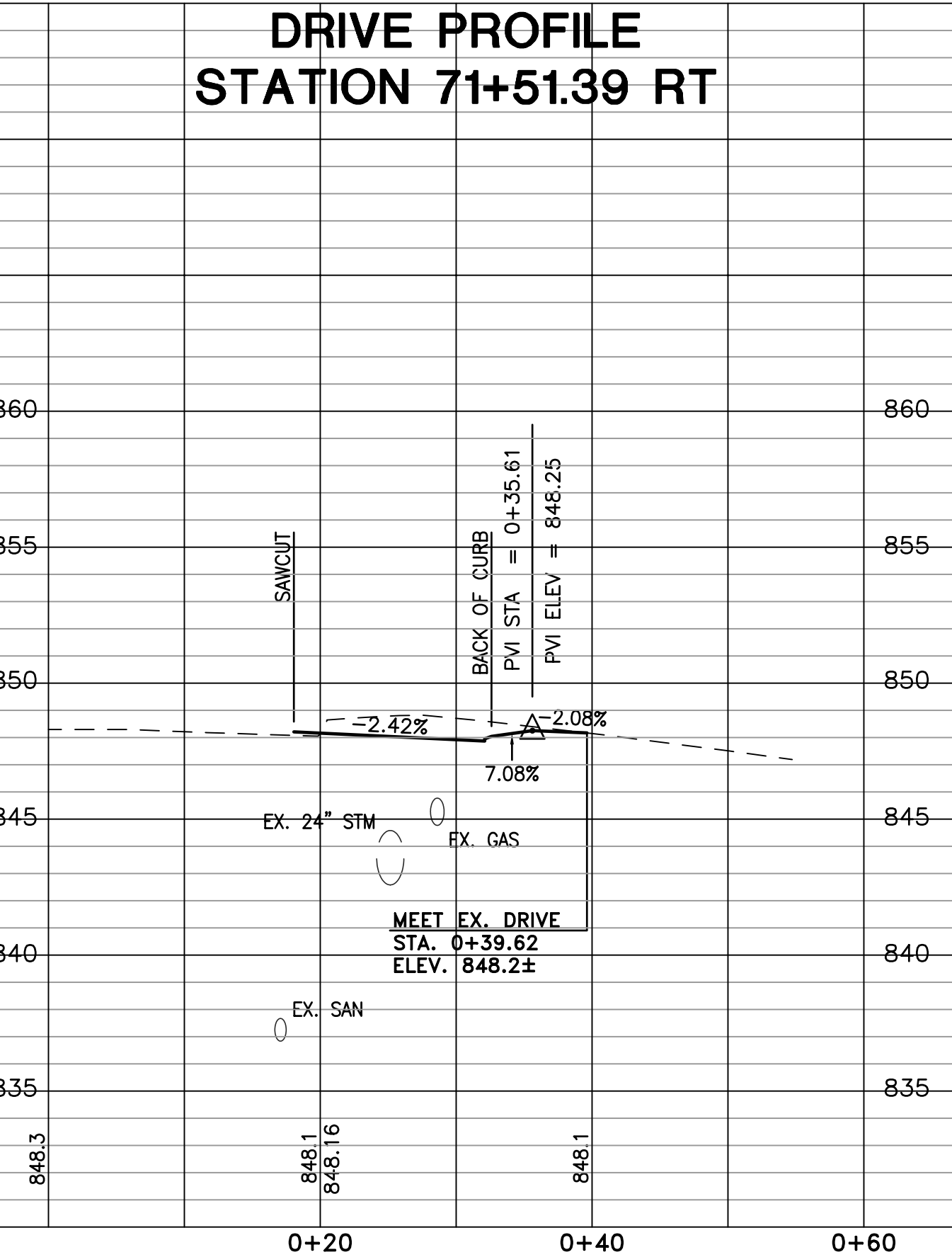
DRIVE PROFILE
STATION 69+65.78 RT



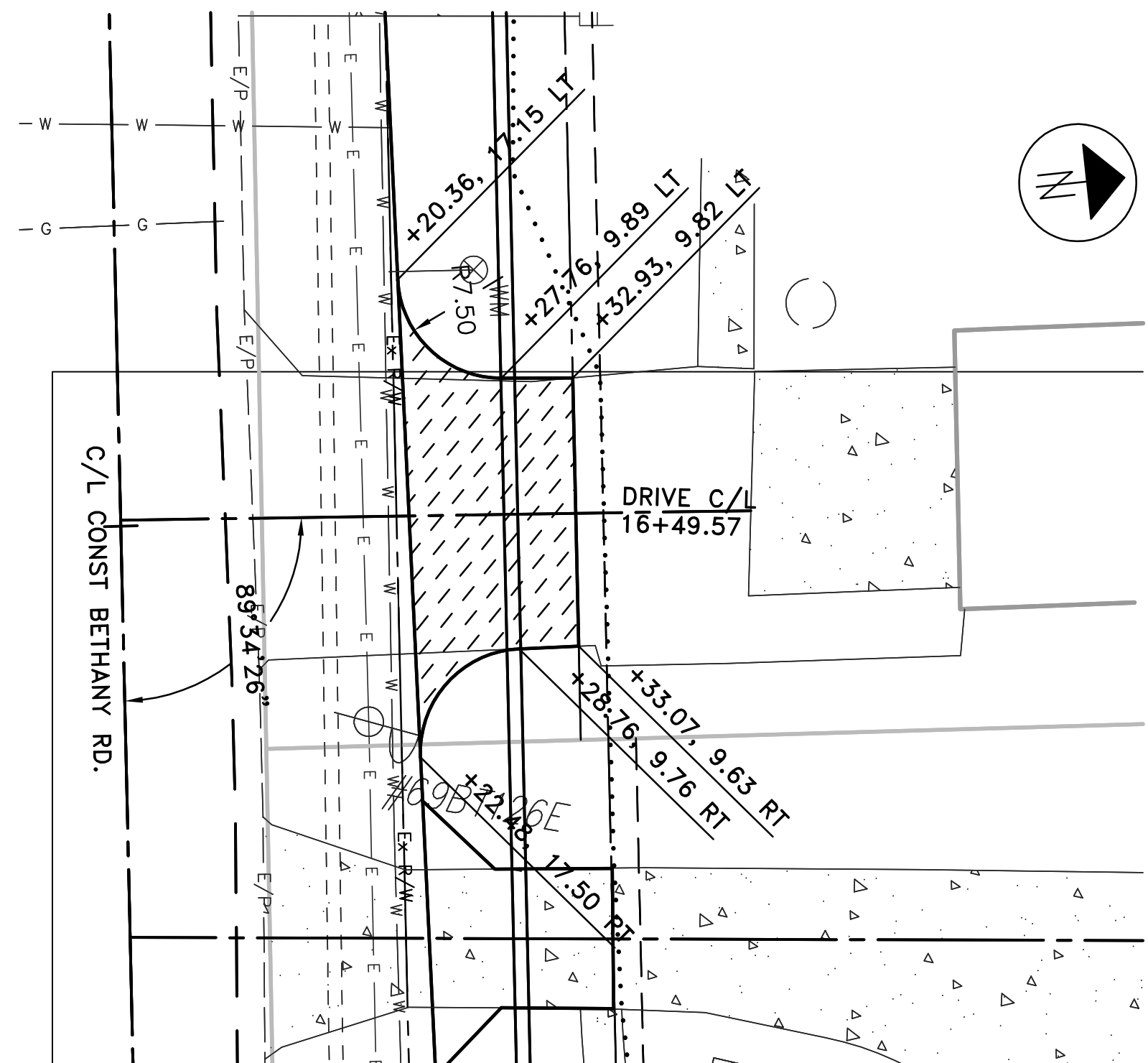
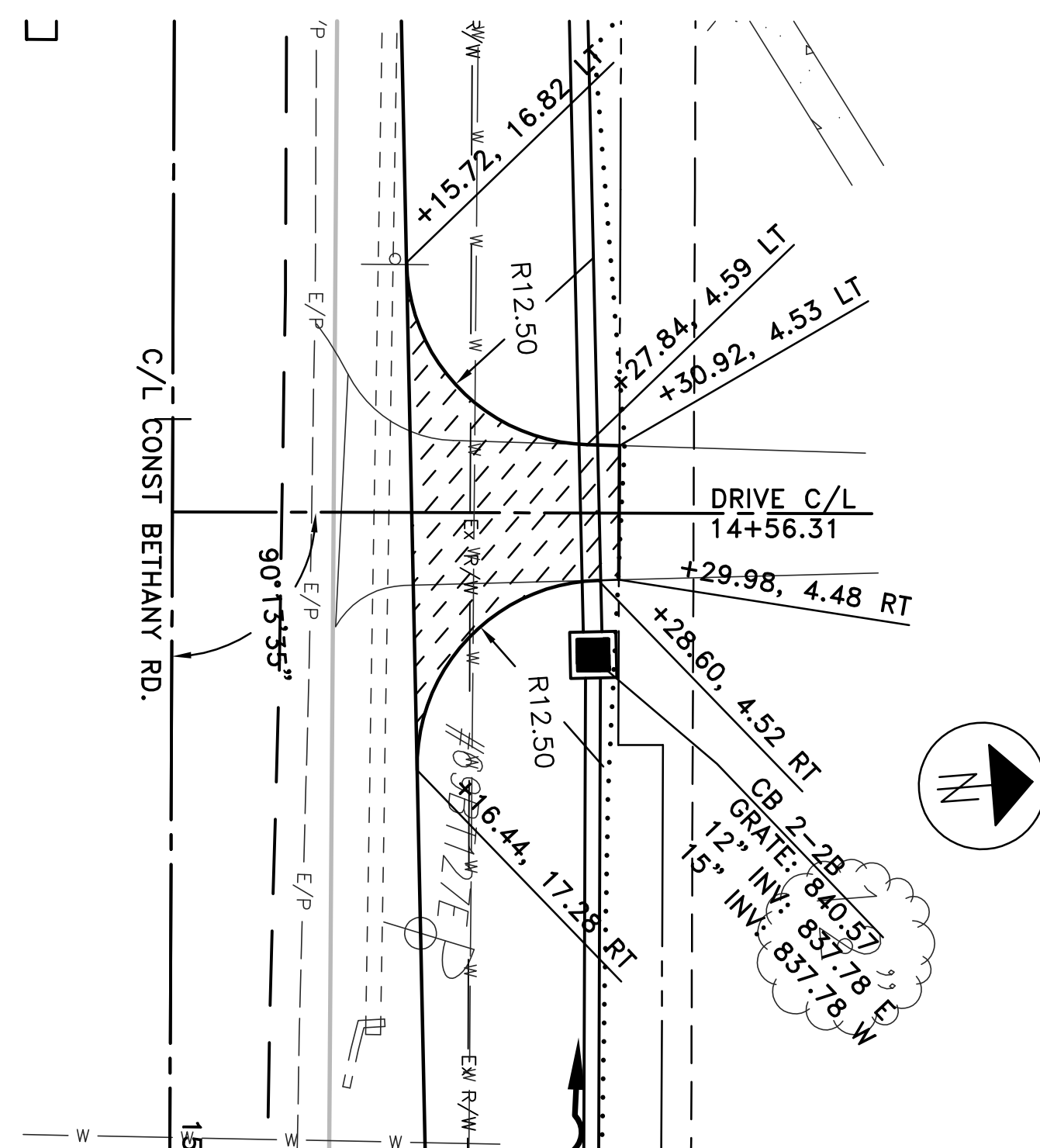
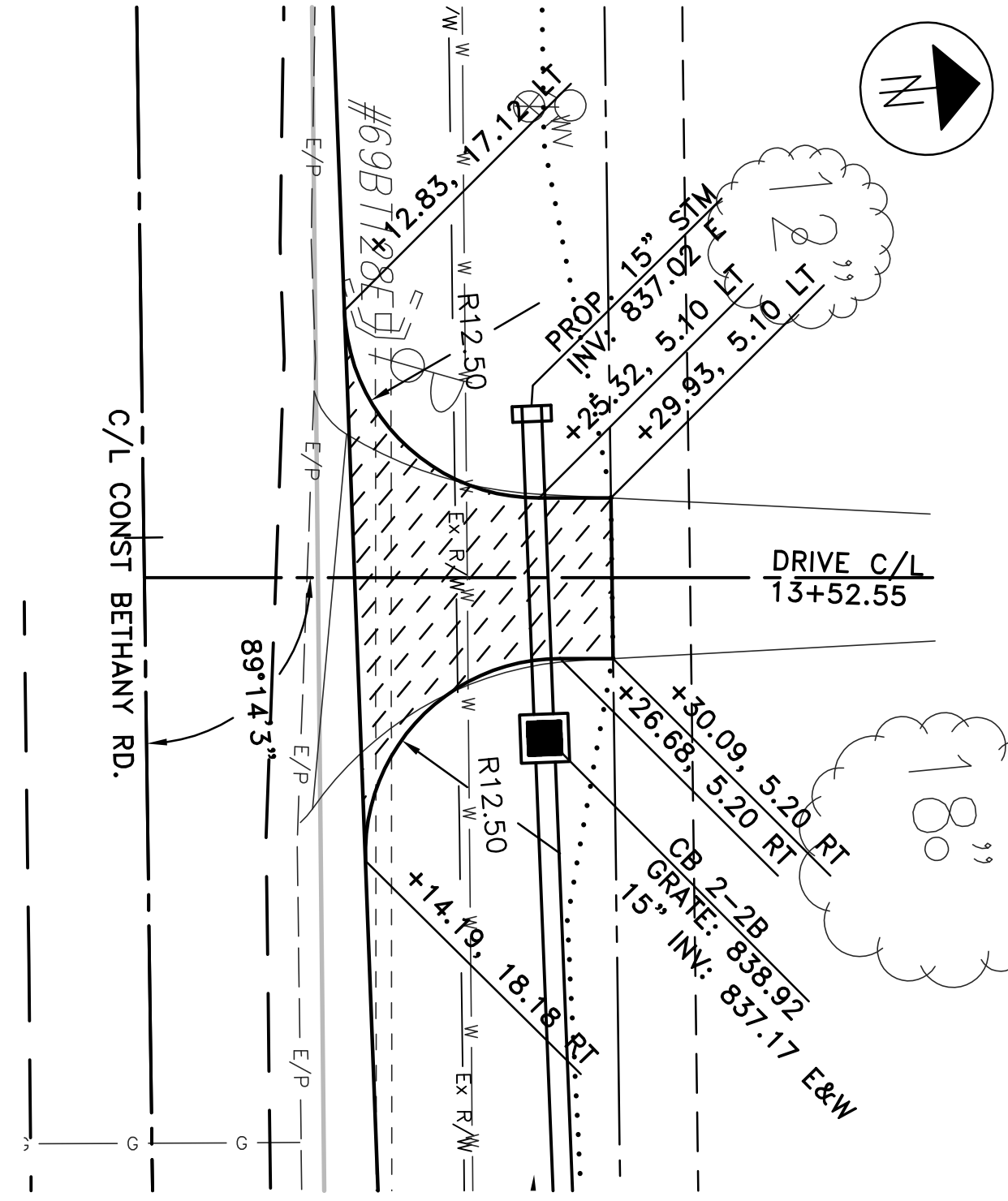
DRIVE PROFILE
STATION 70+42.69 RT



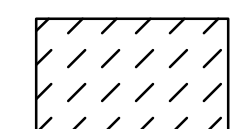
DRIVE PROFILE
STATION 71+51.39 RT



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PAVEMENT COMPOSITION FOR DRIVEWAYS

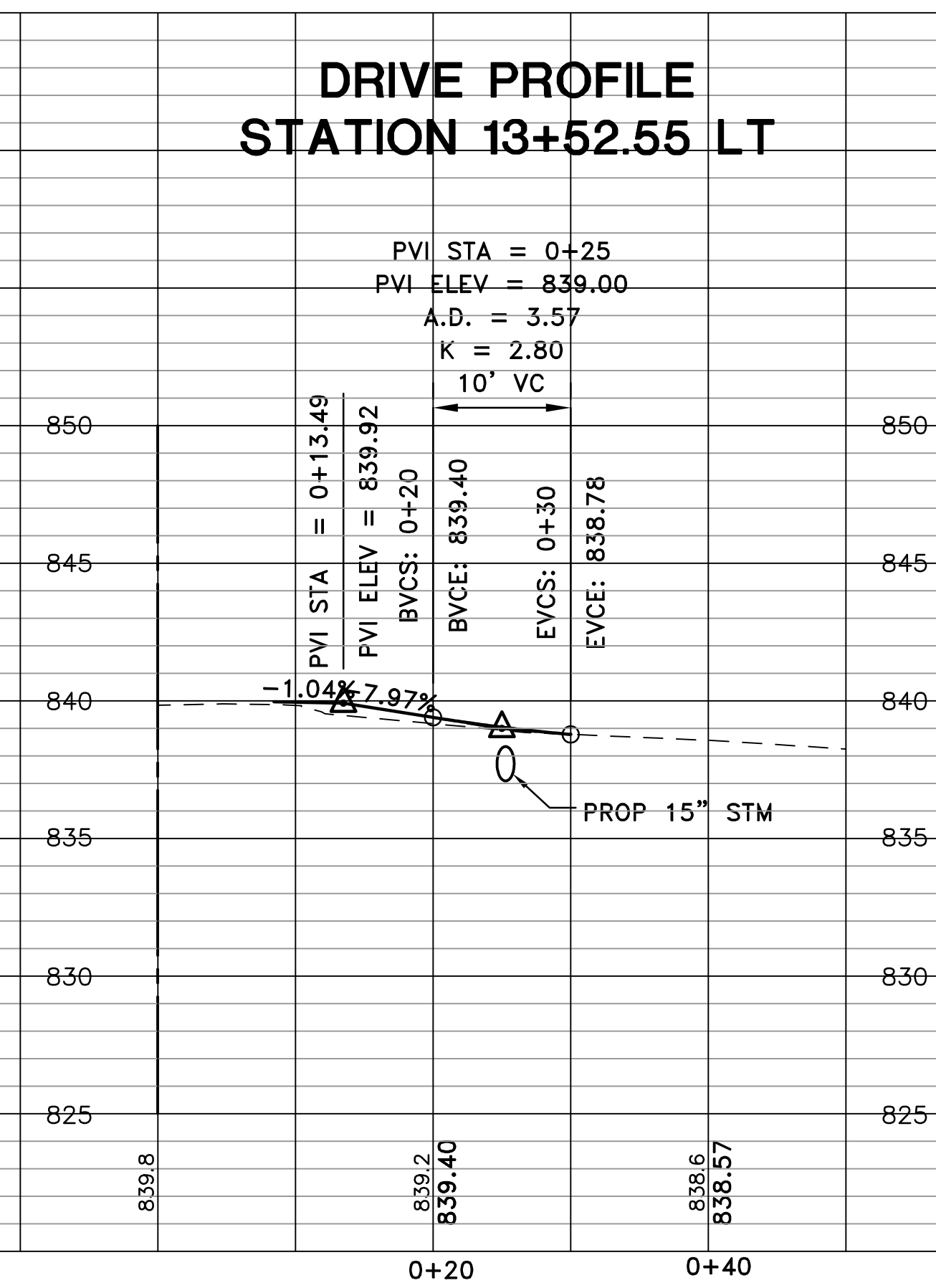


RESIDENTIAL ASPHALT DRIVEWAY APPROACH
448 - 1-1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG64-22
301 - 4" ASPHALT CONCRETE BASE, PG64-22
204 - SUBGRADE COMPACTION

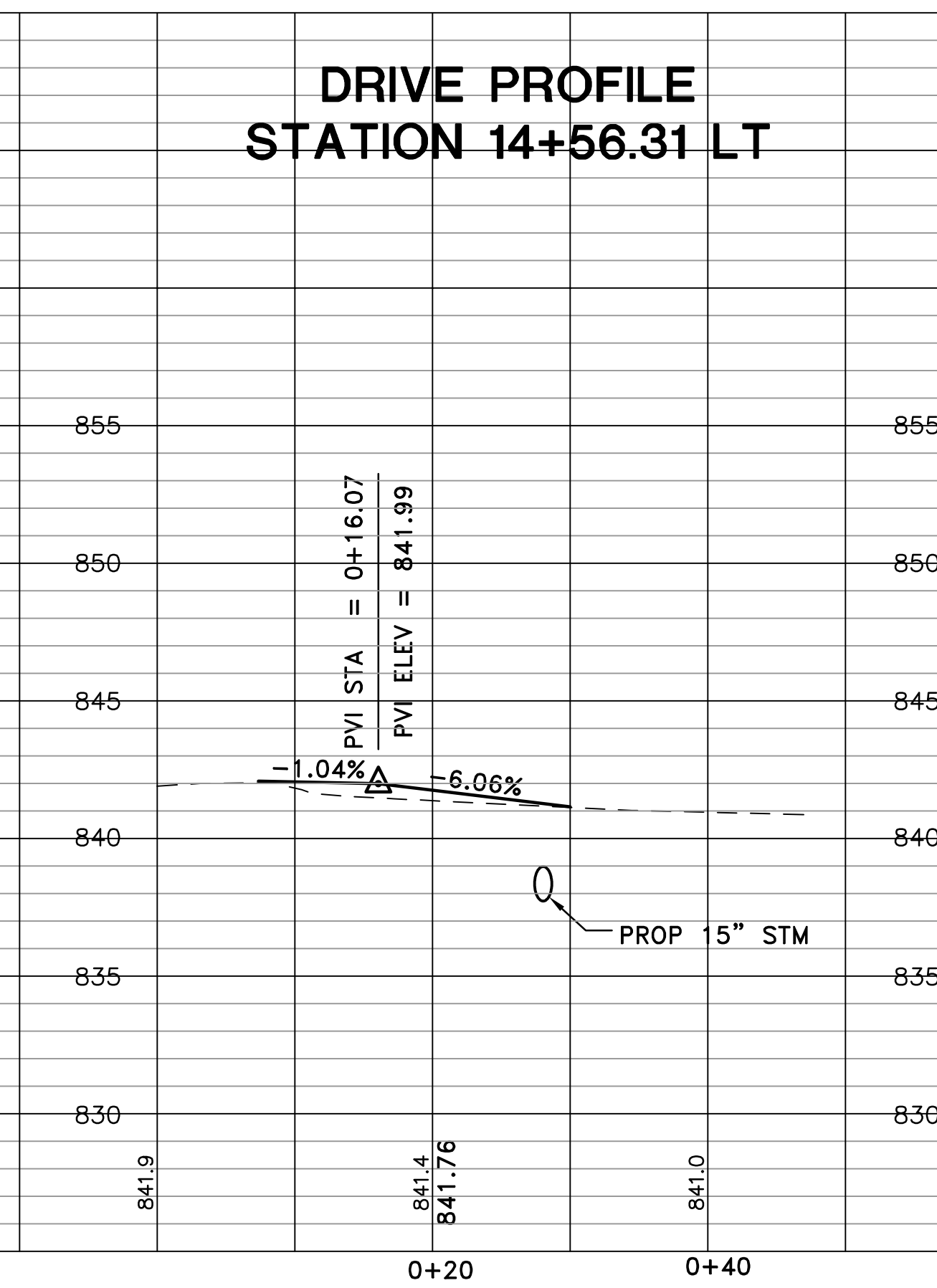


RESIDENTIAL CONCRETE DRIVEWAY APPROACH
452 - 6" NON-REINFORCED CONCRETE PAVEMENT
204 - SUBGRADE COMPACTION

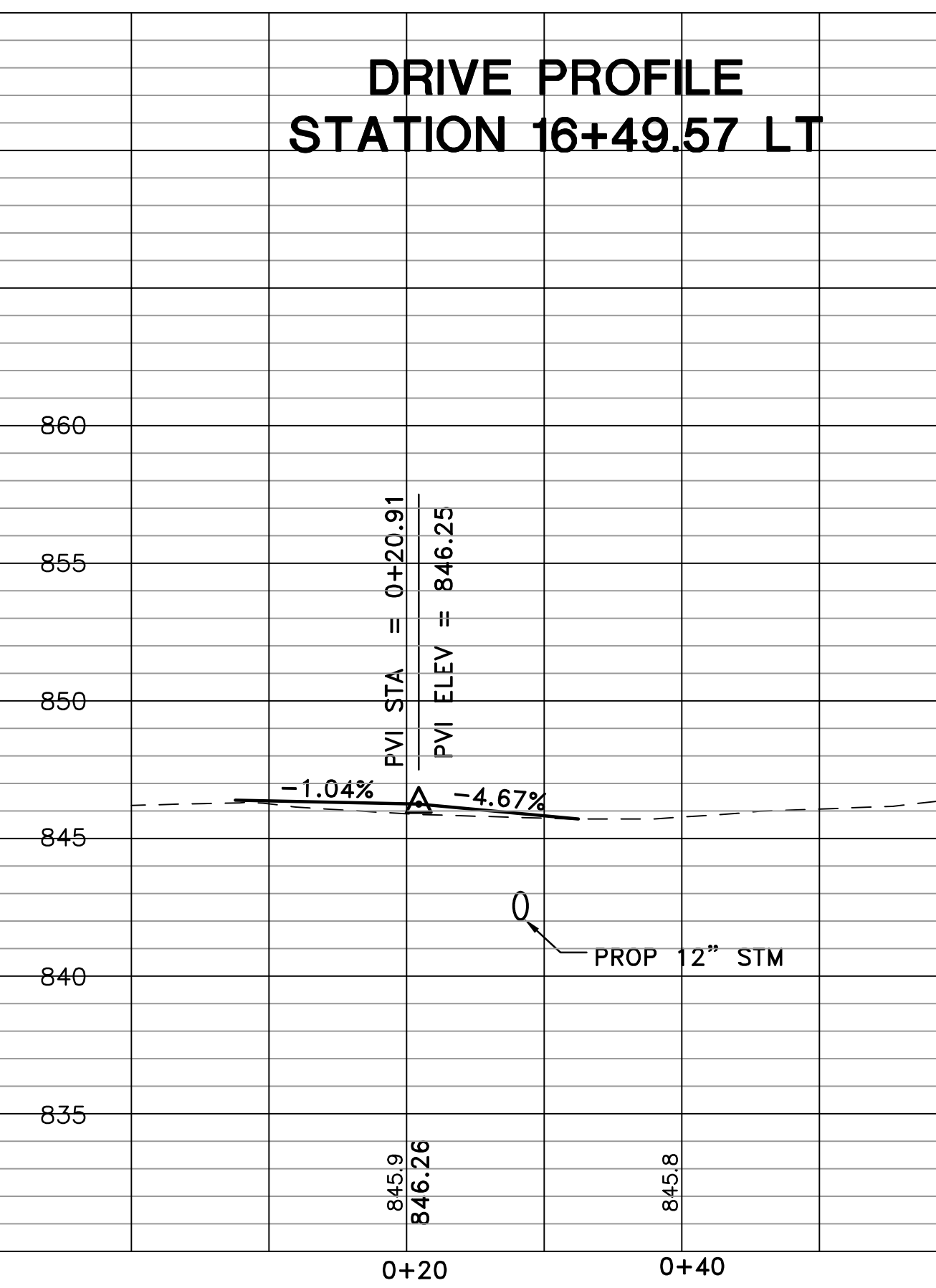
DRIVE PROFILE
STATION 13+52.55 LT



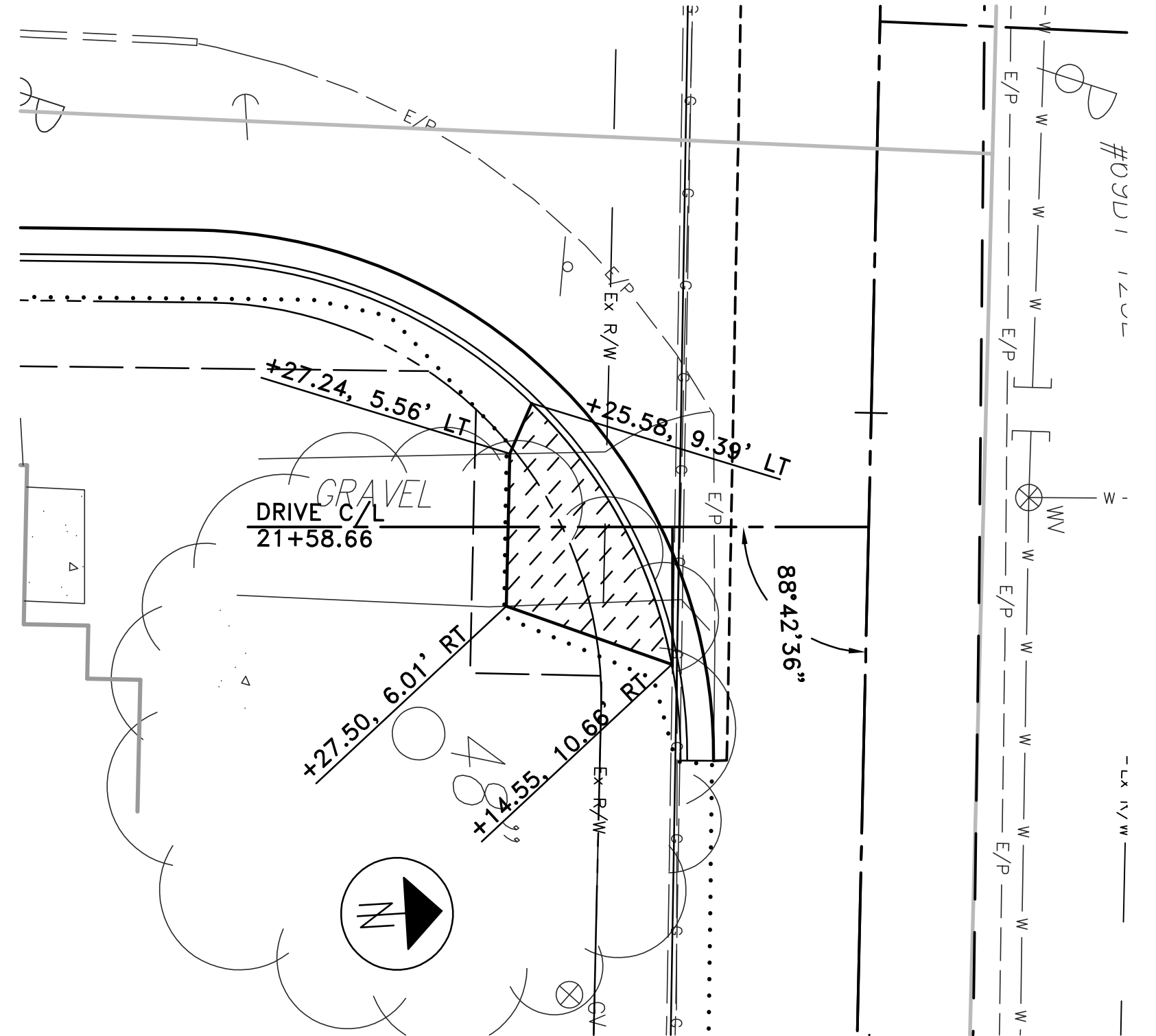
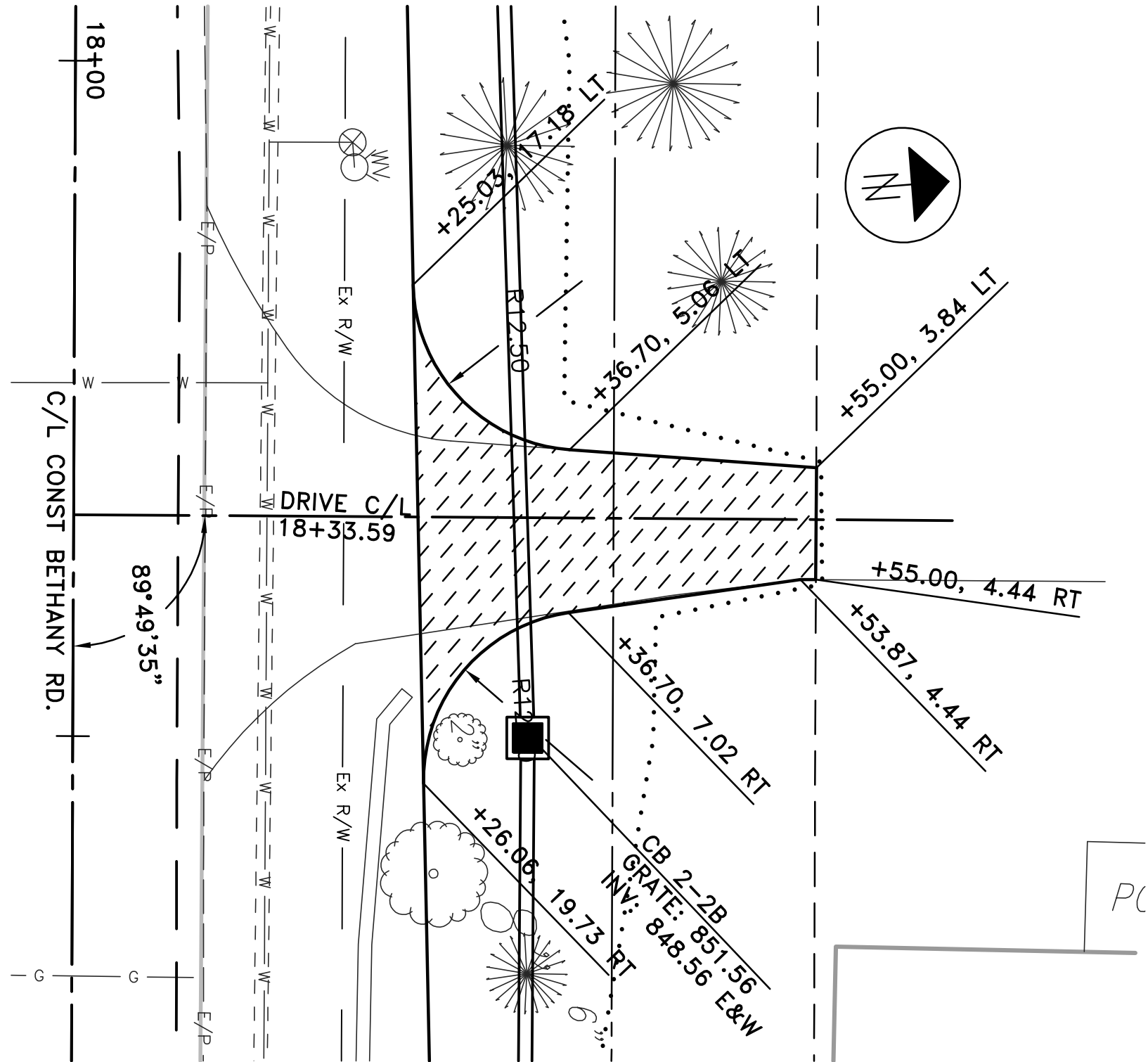
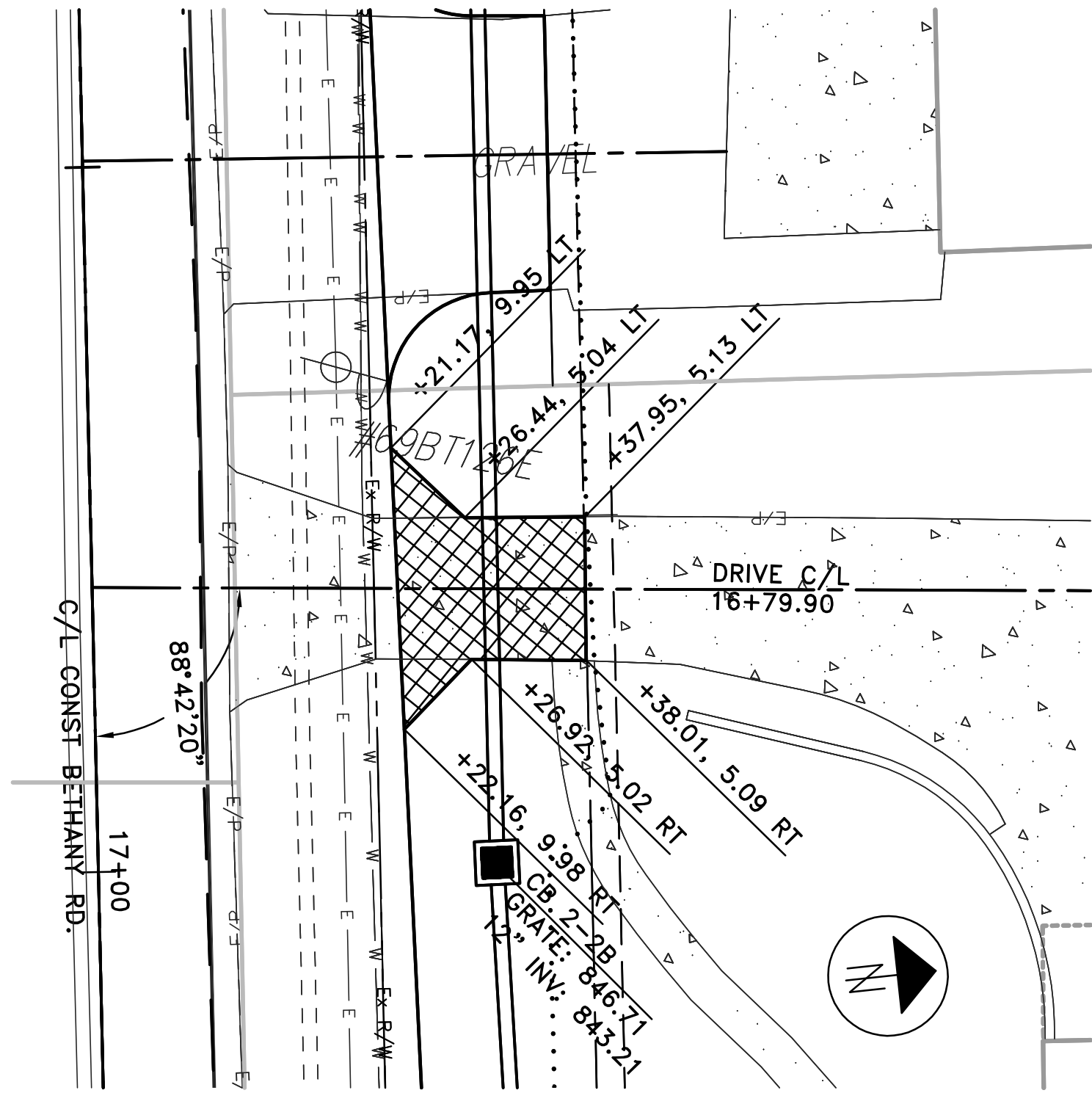
DRIVE PROFILE
STATION 14+56.31 LT



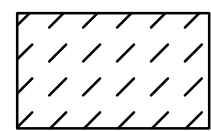
DRIVE PROFILE
STATION 16+49.57 LT



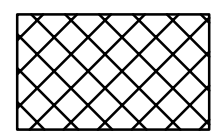
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PAVEMENT COMPOSITION FOR DRIVEWAYS

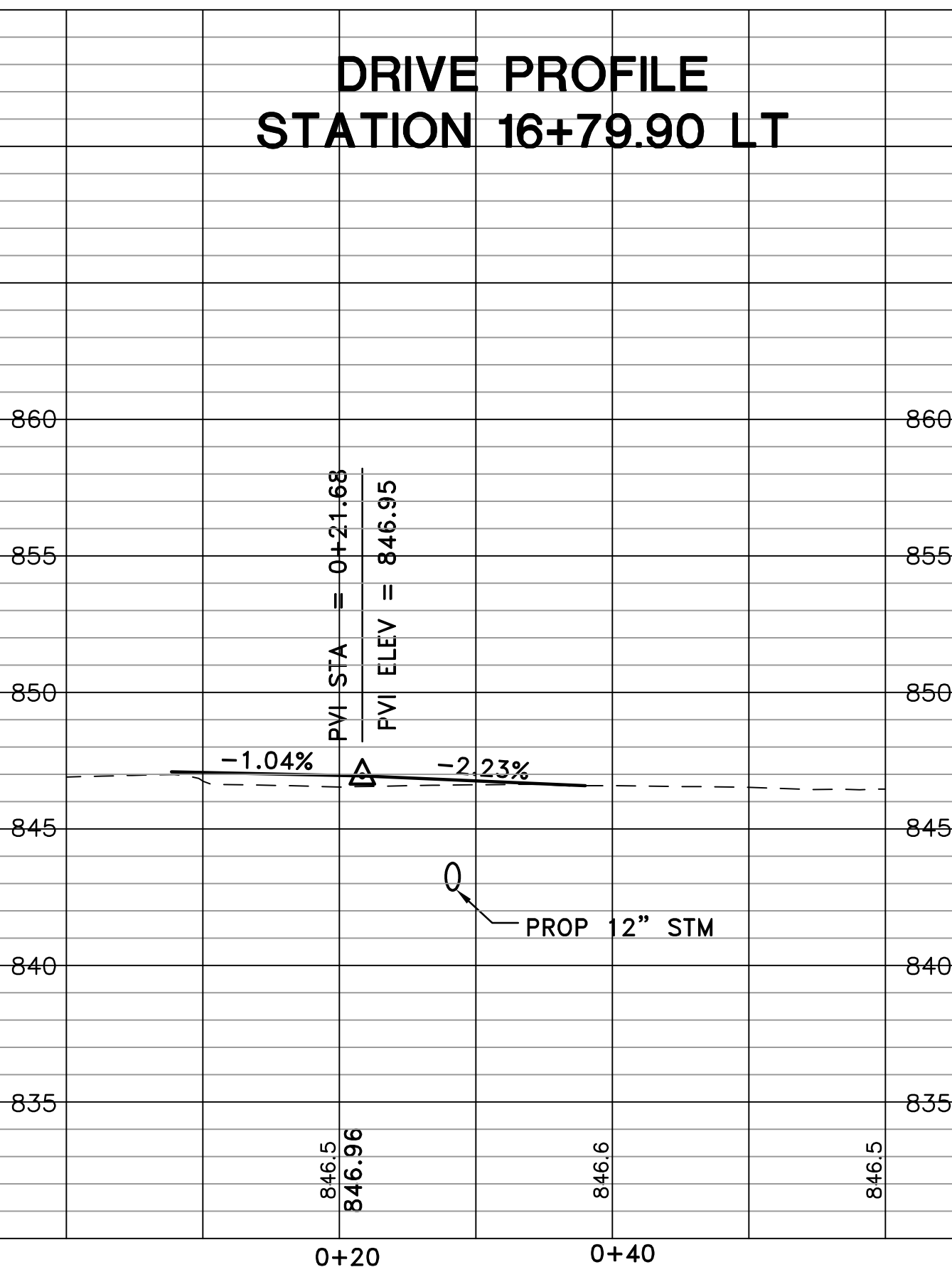


RESIDENTIAL ASPHALT DRIVEWAY APPROACH
448 - 1-1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG64-22
301 - 4" ASPHALT CONCRETE BASE, PG64-22
204 - SUBGRADE COMPACTION

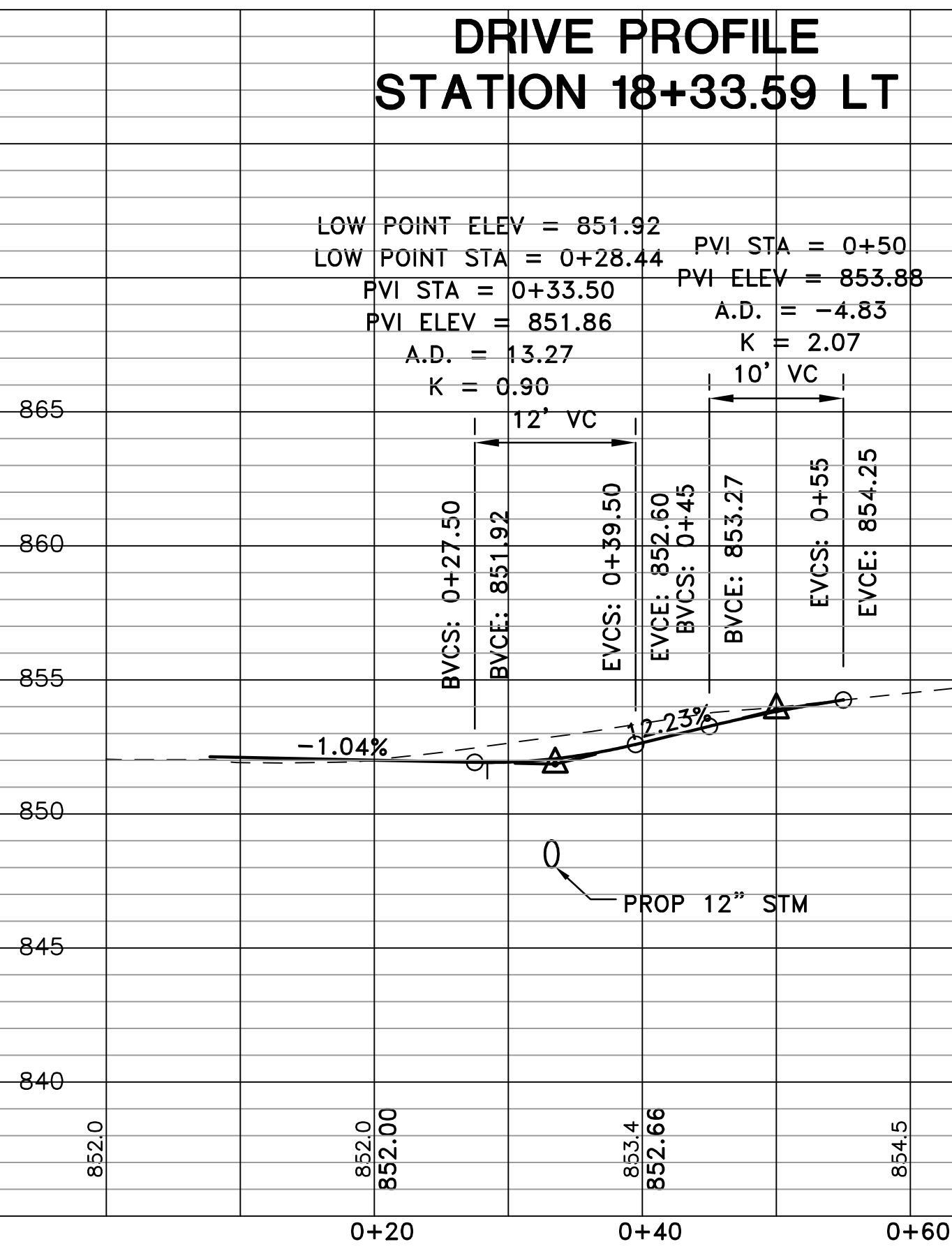


RESIDENTIAL CONCRETE DRIVEWAY APPROACH
452 - 6" NON-REINFORCED CONCRETE PAVEMENT
204 - SUBGRADE COMPACTION

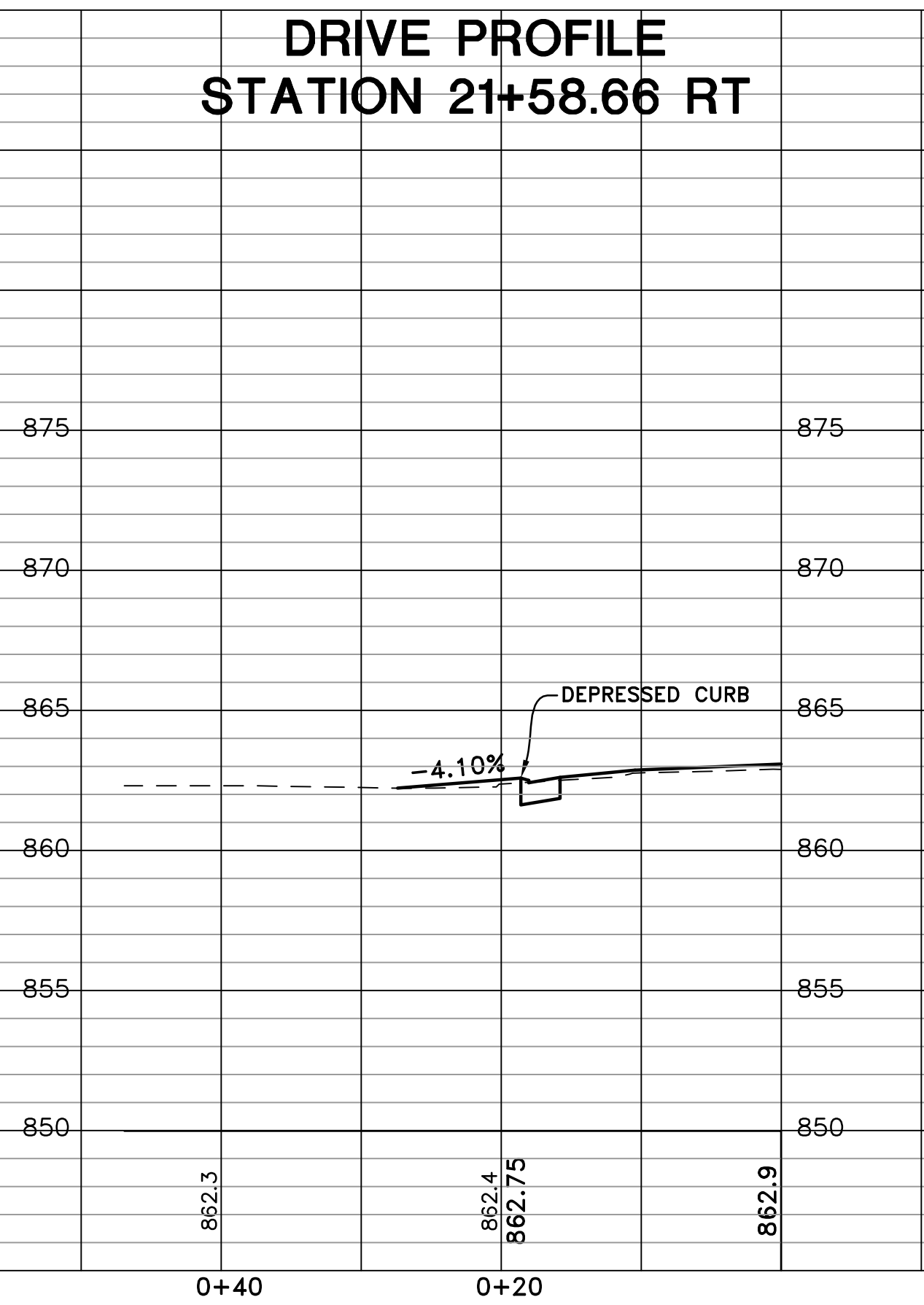
DRIVE PROFILE
STATION 16+79.90 LT



DRIVE PROFILE
STATION 18+33.59 LT



DRIVE PROFILE
STATION 21+58.66 RT



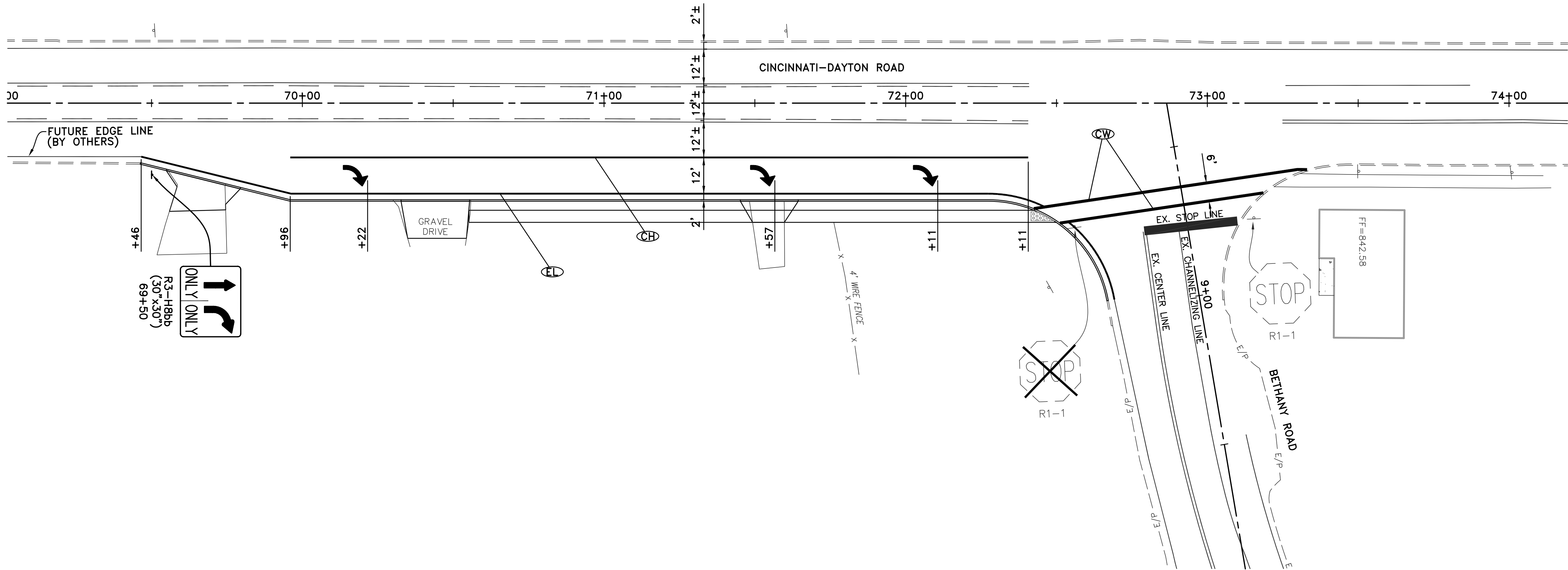
NOTHING SHALL BE DONE TO THE EXISTING ROADWAY OR TO THE EXISTING STRUCTURES OR TO THE EXISTING UTILITIES OR TO THE EXISTING LANDSCAPE OR TO THE EXISTING ENVIRONMENT OR TO THE EXISTING COMMUNITY OR TO THE EXISTING ECONOMY OR TO THE EXISTING SOCIETY OR TO THE EXISTING CULTURE OR TO THE EXISTING HISTORY OR TO THE EXISTING HERITAGE OR TO THE EXISTING IDENTITY OR TO THE EXISTING CHARACTER OR TO THE EXISTING QUALITY OR TO THE EXISTING QUANTITY OR TO THE EXISTING VARIETY OR TO THE EXISTING ABILITY OR TO THE EXISTING WILL OR TO THE EXISTING POWER OR TO THE EXISTING FORCE OR TO THE EXISTING ENERGY OR TO THE EXISTING INFORMATION OR TO THE EXISTING KNOWLEDGE OR TO THE EXISTING UNDERSTANDING OR TO THE EXISTING APPRECIATION OR TO THE EXISTING RESPECT OR TO THE EXISTING TOLERANCE OR TO THE EXISTING PATIENCE OR TO THE EXISTING KINDNESS OR TO THE EXISTING GENTLENESS OR TO THE EXISTING MERCY OR TO THE EXISTING GRACE OR TO THE EXISTING FAITH OR TO THE EXISTING HOPE OR TO THE EXISTING LOVE OR TO THE EXISTING CHARITY OR TO THE EXISTING VIRTUE OR TO THE EXISTING BEAUTY OR TO THE EXISTING GOODNESS OR TO THE EXISTING GREATNESS OR TO THE EXISTING GLORY OR TO THE EXISTING HONOR OR TO THE EXISTING REVERENCE OR TO THE EXISTING WORSHIP OR TO THE EXISTING PRAISE OR TO THE EXISTING THANKSGIVING OR TO THE EXISTING ADMIRATION OR TO THE EXISTING APPRECIATION OR TO THE EXISTING RESPECT OR TO THE EXISTING TOLERANCE OR TO THE EXISTING PATIENCE OR TO THE EXISTING KINDNESS OR TO THE EXISTING GENTLENESS OR TO THE EXISTING MERCY OR TO THE EXISTING GRACE OR TO THE EXISTING FAITH OR TO THE EXISTING HOPE OR TO THE EXISTING LOVE OR TO THE EXISTING CHARITY OR TO THE EXISTING VIRTUE OR TO THE EXISTING BEAUTY OR TO THE EXISTING GOODNESS OR TO THE EXISTING GREATNESS OR TO THE EXISTING GLORY OR TO THE EXISTING HONOR OR TO THE EXISTING REVERENCE OR TO THE EXISTING WORSHIP OR TO THE EXISTING PRAISE OR TO THE EXISTING THANKSGIVING OR TO THE EXISTING ADMIRATION

LEGEND

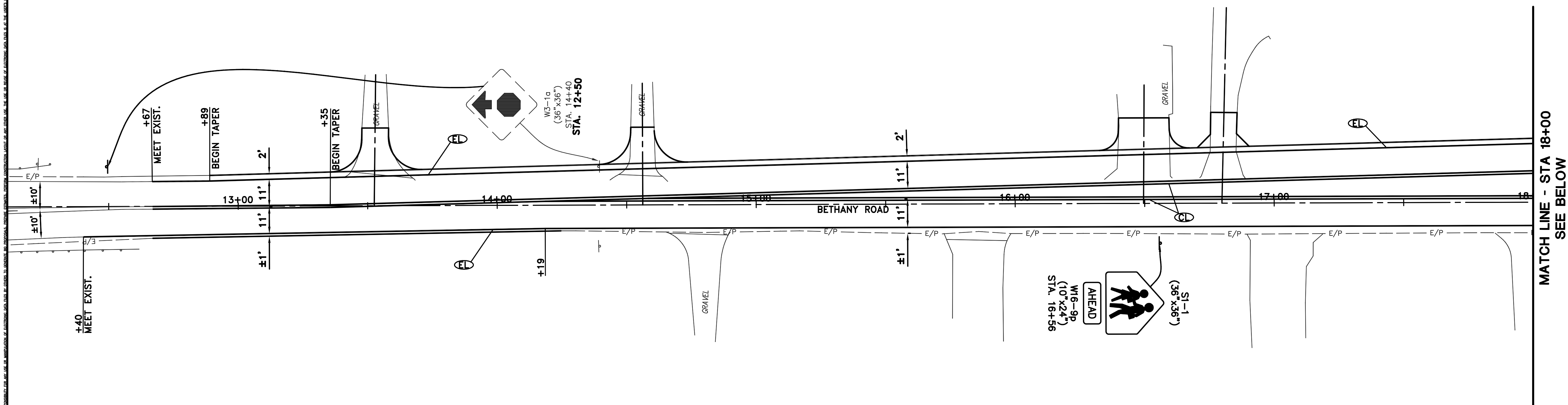
- ITEM 644, CENTER LINE, 4" DOUBLE YELLOW SOLID
- ITEM 644, CHANNELIZING LINE, 8" WHITE
- ITEM 644, EDGE LINE, 4" WHITE
- ITEM 644, STOP LINE, 24" WHITE
- ITEM 644, ISLAND MARKING, SOLID YELLOW
- ITEM 644, CROSSWALK LINE, 12" WHITE
- ITEM 644, TRANSVERSE LINE, 12" YELLOW SPACED PER T.E.M. SECTION 301-14

- PROPOSED SIGN
- EXISTING SIGN

- EXISTING SIGN TO BE REMOVED



NOTE:
THE CONTRACTOR SHALL USE SANDBLASTING FOR REMOVAL OF THE EXISTING PAVEMENT MARKINGS AT THE INTERSECTION OF CINCINNATI-DAYTON ROAD AND BETHANY ROAD STO LIMIT DAMAGE TO EXISTING SURFACE COURSE.

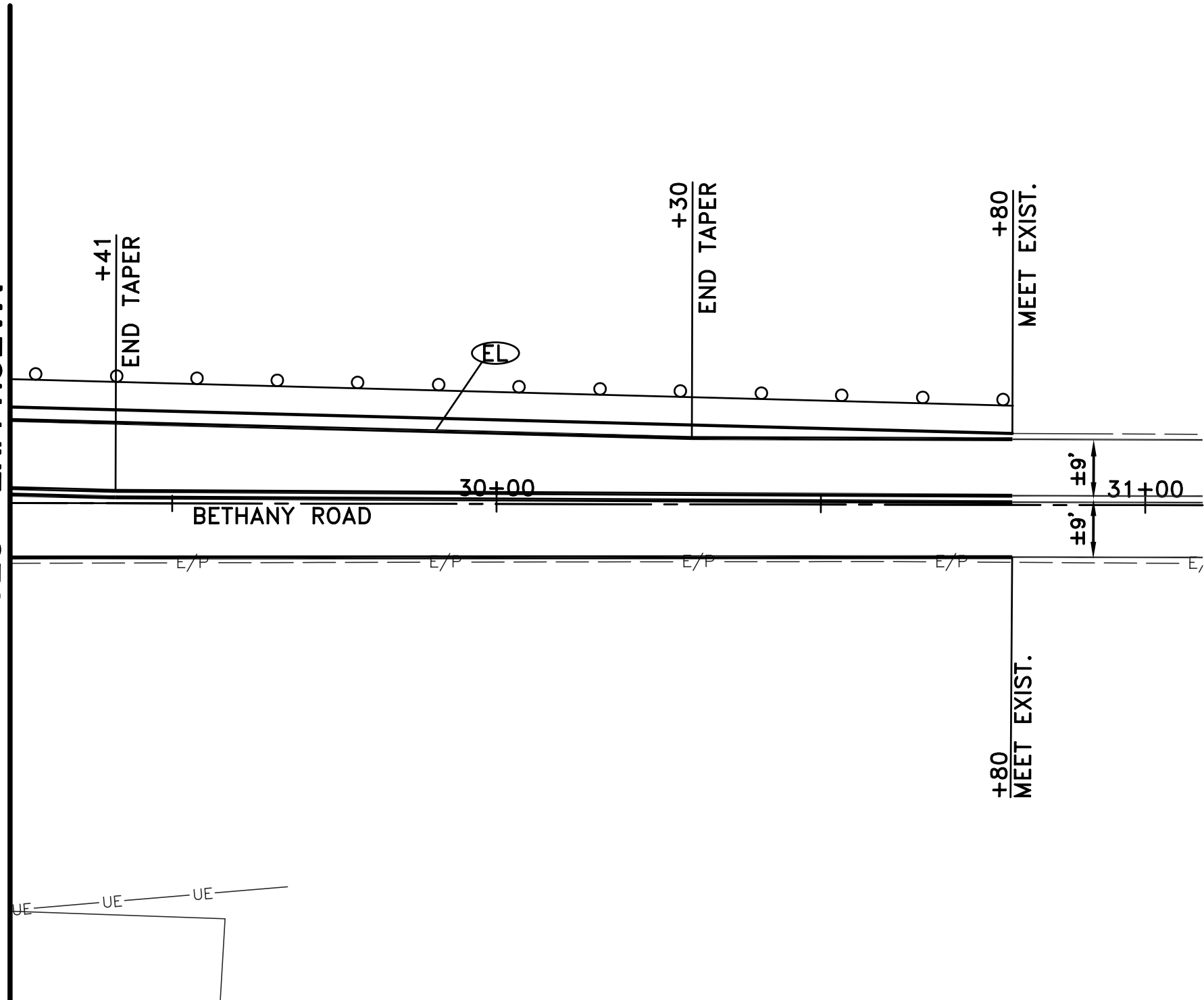
 - EXISTING SIGN TO BE REMOVED

TRAFFIC CONTROL PLAN - STA. 23+75 TO STA. 29+25

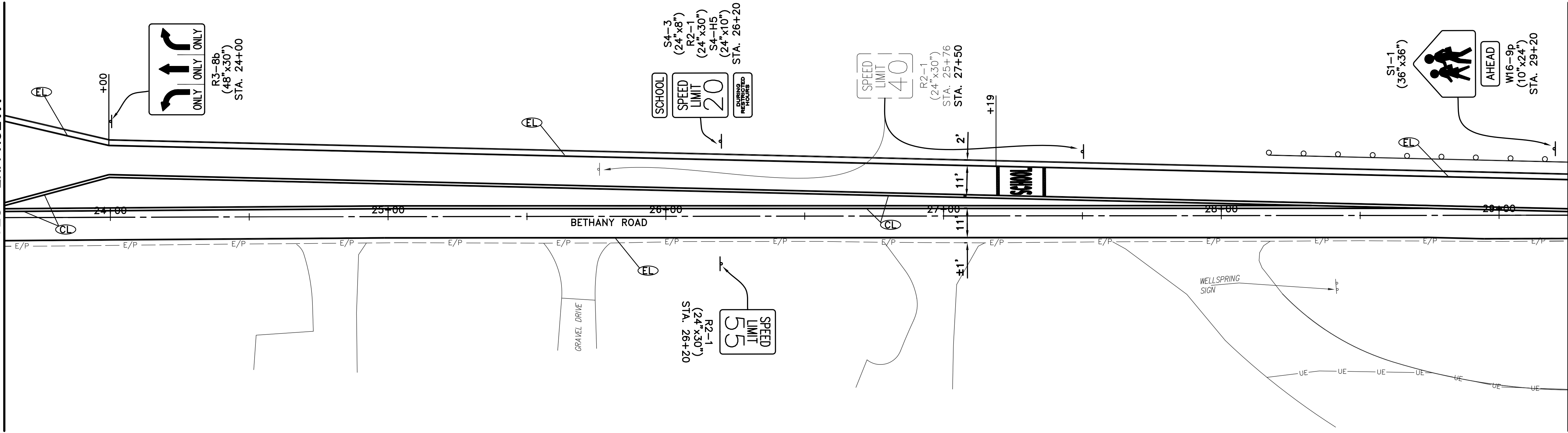
- LEGEND
- ITEM 644, CENTER LINE, 4" DOUBLE YELLOW SOLID
 - ITEM 644, CHANNELIZING LINE, 8" WHITE
 - ITEM 644, EDGE LINE, 4" WHITE
 - ITEM 644, STOP LINE, 24" WHITE
 - ITEM 644, ISLAND MARKING, SOLID YELLOW
 - ITEM 644, TRANSVERSE LINE, 12" YELLOW SPACED PER T.E.M. SECTION 301-14

- PROPOSED SIGN
- EXISTING SIGN
- EXISTING SIGN TO BE REMOVED

MATCH LINE - STA 29+25
SEE ABOVE



MATCH LINE - STA 23+75
SEE PREVIOUS SHEET



MATCH LINE - STA 29+25
SEE BELOW

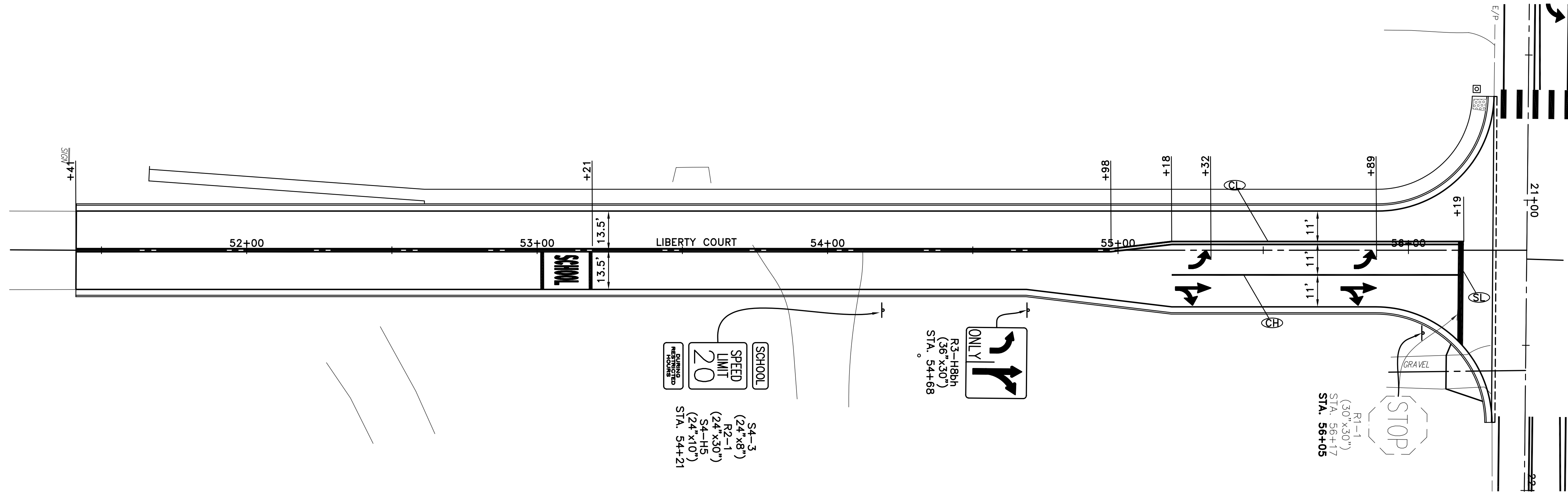
(CL) - ITEM 644, CENTER LINE, 4" DOUBLE YELLOW SOLID
 (CH) - ITEM 644, CHANNELIZING LINE, 8" WHITE
 (EL) - ITEM 644, EDGE LINE, 4" WHITE
 (SL) - ITEM 644, STOP LINE, 24" WHITE
 (IM) - ITEM 644, ISLAND MARKING, SOLID YELLOW
 (TR) - ITEM 644, TRANSVERSE LINE, 12" YELLOW SPACED
 PER T.E.M. SECTION 301-14

 – PROPOSED SIGN

 - EXISTING SIGN



- EXISTING SIGN TO BE REMOVED

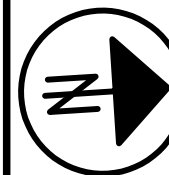


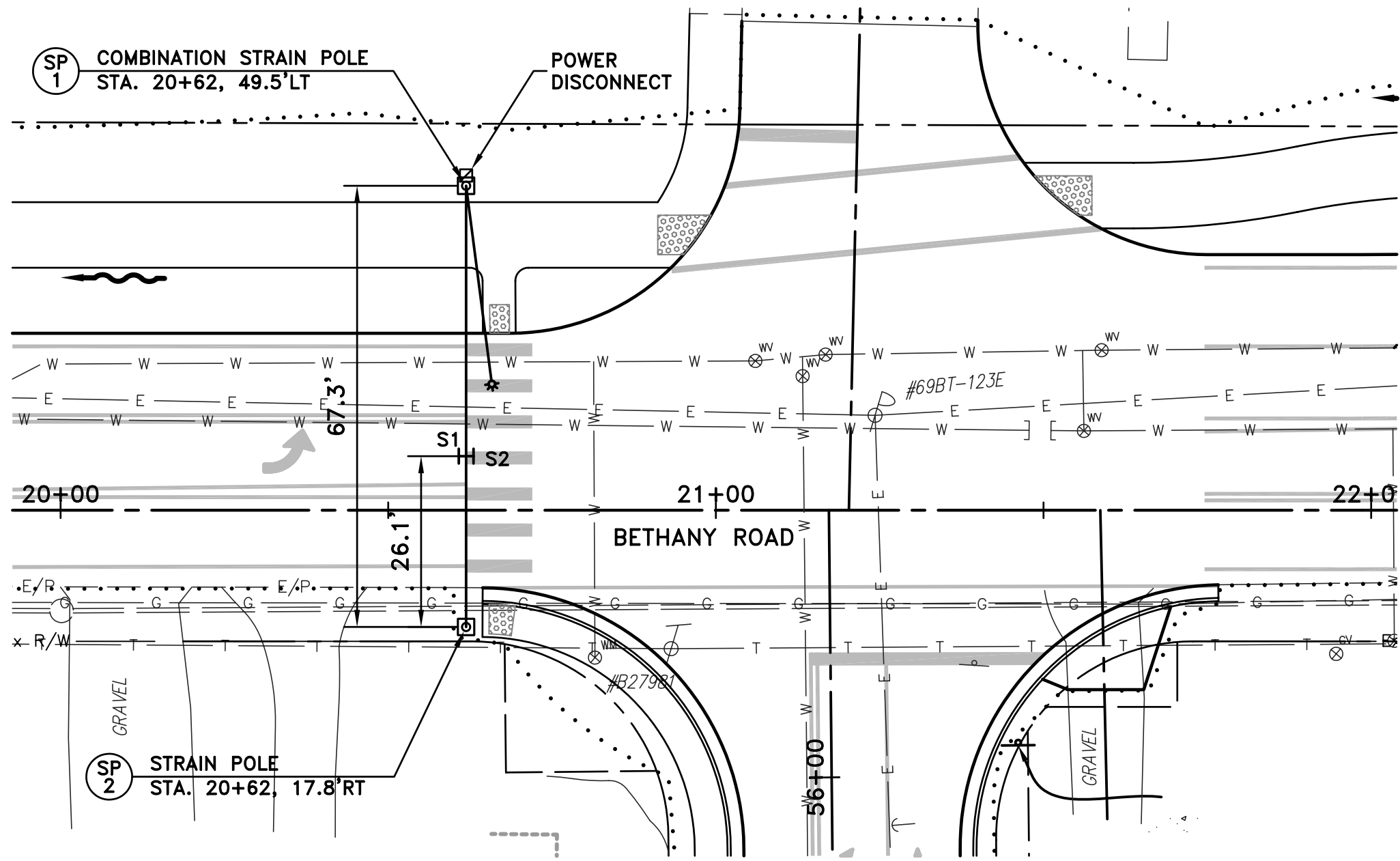
KLEINGERS
& ASSOCIATES
ENGINEERS AND SURVEYORS
6305 Centre Park Drive
West Chester, OH 45069
513-779-7851 Fax: 513-779-7850

LIBERTY COURT
TRAFFIC CONTROL PLAN - STA. 51+41 TO END

CALCULATED	SJB
CHECKED	NIMM

HORIZONTAL SCALE
IN FEET (1"=20')





LOCATION PLAN VIEW

LEGEND

- STRAIN POLE
- * LUMINAIRE
- + REFLECTORIZED SIGN
- ⊠ POWER DISCONNECT

NOTE: LUMINAIRE BRACKET ARM SHOWN FOR REFERENCE ONLY. SEE POLE CHART FOR MOUNTING ANGLE.

COORDINATE POWER HOOKUP WITH ELECTRIC UTILITY COMPANY

SIGNS



W11A-2
(36" 36")
S1, S2

NOTES

UNDERGROUND UTILITIES

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN ON THE PLANS.

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL WITHIN FORTY-EIGHT HOURS, EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK, OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED.

SPECIFICATION COMPLIANCE

ALL MATERIALS MUST BE IN COMPLIANCE WITH CONTRACT SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE ENGINEER. ALL WORK AND MATERIALS NOT SPECIFICALLY REFERENCED IN THE CONTRACT SHALL MEET OR EXCEED THE REQUIREMENTS OF:

OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2005

THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2005)

THE MOST RECENT REVISIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, STANDARD CONSTRUCTION DRAWINGS:

TC-17.10	TC-81.10	HL-10.12
TC-21.20	HL-10.11	HL-60.11

ITEM 625. LUMINAIRE CONVENTIONAL. AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS WITH AN IES 11-M-SC DISTRIBUTION AND 250 WATT HIGH PRESSURE SODIUM LAMPS SHALL BE AMERICAN ELECTRIC "SERIES 126" WITH PHOTOMETRIC DISTRIBUTION AE38491, COOPER "OVD" WITH PHOTOMETRIC DISTRIBUTION OVD2S2F, GENERAL ELECTRIC "M-400" WITH PHOTOMETRIC DISTRIBUTION 1014, OR EQUAL AS APPROVED BY THE ENGINEER.

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

ITEM 625. 30' BRACKET ARM. CLAMP-ON STYLE. AS PER PLAN

A 30-FOOT CLAMP-ON TRUSS ARM HIGH RISE STYLE BRACKET ARM SHALL BE SUPPLIED BY THE CONTRACTOR, INCLUDING BRACKET PLATES AND ALL ACCESSORIES FOR COMPLETE INSTALLATION TO THE POLE.

ITEM 632. POWER SERVICE. AS PER PLAN

POWER SERVICE SHALL BE PER CMS ITEM 625.15 AND SCD TC-83.10 WITH THE FOLLOWING EXCEPTIONS:

NO METER BASE SHALL BE INSTALLED.

DISCONNECT SWITCH ENCLOSURES FURNISHED IN ACCORDANCE WITH CMS ITEM 632, POWER SERVICE, AS PER PLAN, SHALL INCLUDE A PADLOCK EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660, WITH LOCK BODY OF BRONZE OR BRASS AND KEYING SHALL BE TO THE STATE MASTER.

THE CONTRACTOR WILL BE RESPONSIBLE FOR REQUESTING AND SCHEDULING ANY INSPECTIONS THE POWER COMPANY MAY REQUIRE FOR THE POWER SERVICE HOOKUP. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE POWER COMPANY FOR THE ELECTRICAL SERVICE CONNECTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SPLICE POWER CABLE INTO THE POWER COMPANY'S CIRCUITS. THE VOLTAGE SUPPLIED SHALL BE NOMINALLY 120 VOLTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND THE PAYING OF ALL FEES. THE CONTRACTOR SHALL PAY ALL POWER CHARGES UNTIL THE LIGHTING IS ACCEPTED BY THE MAINTAINING AGENCY.

ITEM 632. STRAIN POLE FOUNDATION. AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS ITEM 632.14, THE CONTRACTOR SHALL SUPPLY ANCHOR BOLTS, AND ANY REQUIRED ANCHOR BOLT COVERS OR COVER BASES.

THE CONTRACTOR SHALL FIELD VERIFY ANCHOR BOLT CIRCLE DIAMETER AND BOLT PLACEMENT WITH BCEO PRIOR TO INSTALLATION.

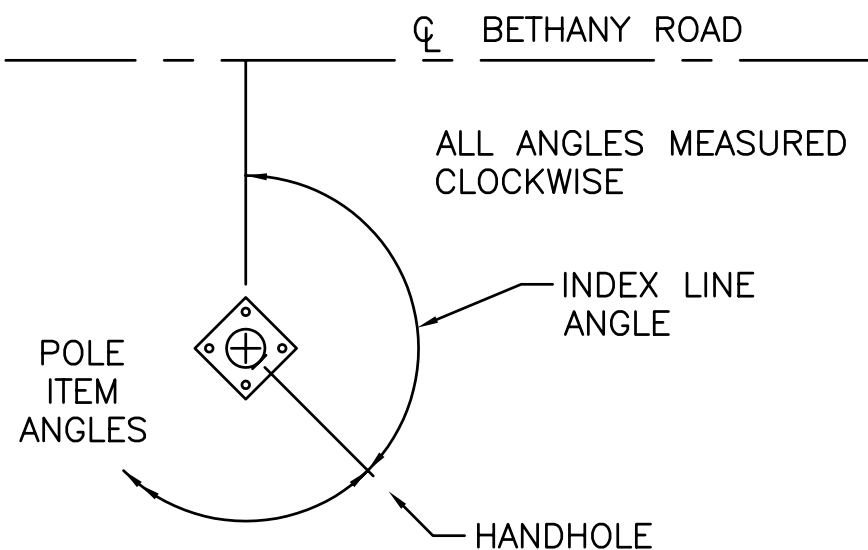
THE CONTRACTOR SHALL NOT USE FLY ASH IN CONSTRUCTION OF FOUNDATIONS FOR STRAIN POLES.

POLE CHART

POLE NO.	STATION & OFFSET	FOUNDATION ELEVATION	GROUND ELEVATION AT FOUNDATION	POLE TYPE	POLE HEIGHT (FT.)	TOP MESSANGER WIRE ATTACHMENT HEIGHT (FT.)	BOTTOM MESSANGER WIRE ATTACHMENT HEIGHT (FT.)	LUMINAIRE BRACKET ARM LENGTH (FT.)	INDEX LINE ANGLE (DEG)	ANGLES FROM INDEX LINE ANGLE (DEG)			
										MESSANGER WIRE	LUMINAIRE BRACKET ARM		
SP-1	STA. 20+62, 17.8'LT	860.91	860.91	5*	32.0	25	22		180°	180°			
SP-2	STA. 20+62, 49.5'LT	861.10	861.10	5*	32.0	25	22	30	180°	180°	180°		

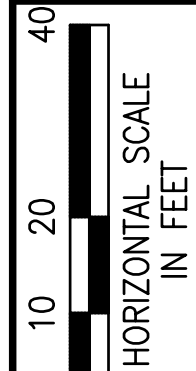
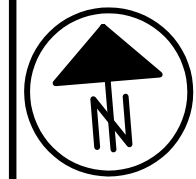
* SUPPLIED BY BUTLER COUNTY ENGINEER'S OFFICE.

SIGNAL CLEARANCE:
16' MINIMUM
18' MAXIMUM



QUANTITIES

LOCATION				ITEM NUMBERS												
REFERENCE NO.	FROM	TO	SIDE	625						630			632			
				LUMINAIRE CONVENTIONAL, AS PER PLAN	30" BRACKET ARM, CLAMP-ON STYLE, AS PER PLAN	No. 10 600 VOLT DISTRIBUTION CABLE	POWER SERVICE, AS PER PLAN	GROUND ROD		SIGN FLAT SHEET, TYPE G	SIGN HANGER ASSEMBLY, SPAN WIRE		STRAIN POLE FOUNDATION, AS PER PLAN	STRAIN POLE, TYPE TC-81.10, DESIGN 5, INSTALLATION ONLY	MESSANGER WIRE, 7-STRAND, 3/8" DIAMETER, WITH ACCESSORIES	
SP-1	-	20+62	RT.		EA	EA	L.F.	EA	EA		EA	EA		EA	EA	L.F.
SP-2	-	20+62	LT.		1	1	75	1	1					1	1	136
S1											9	1				
S2											9	1				
TOTALS					1	1	75	1	2		18	2		2	2	136



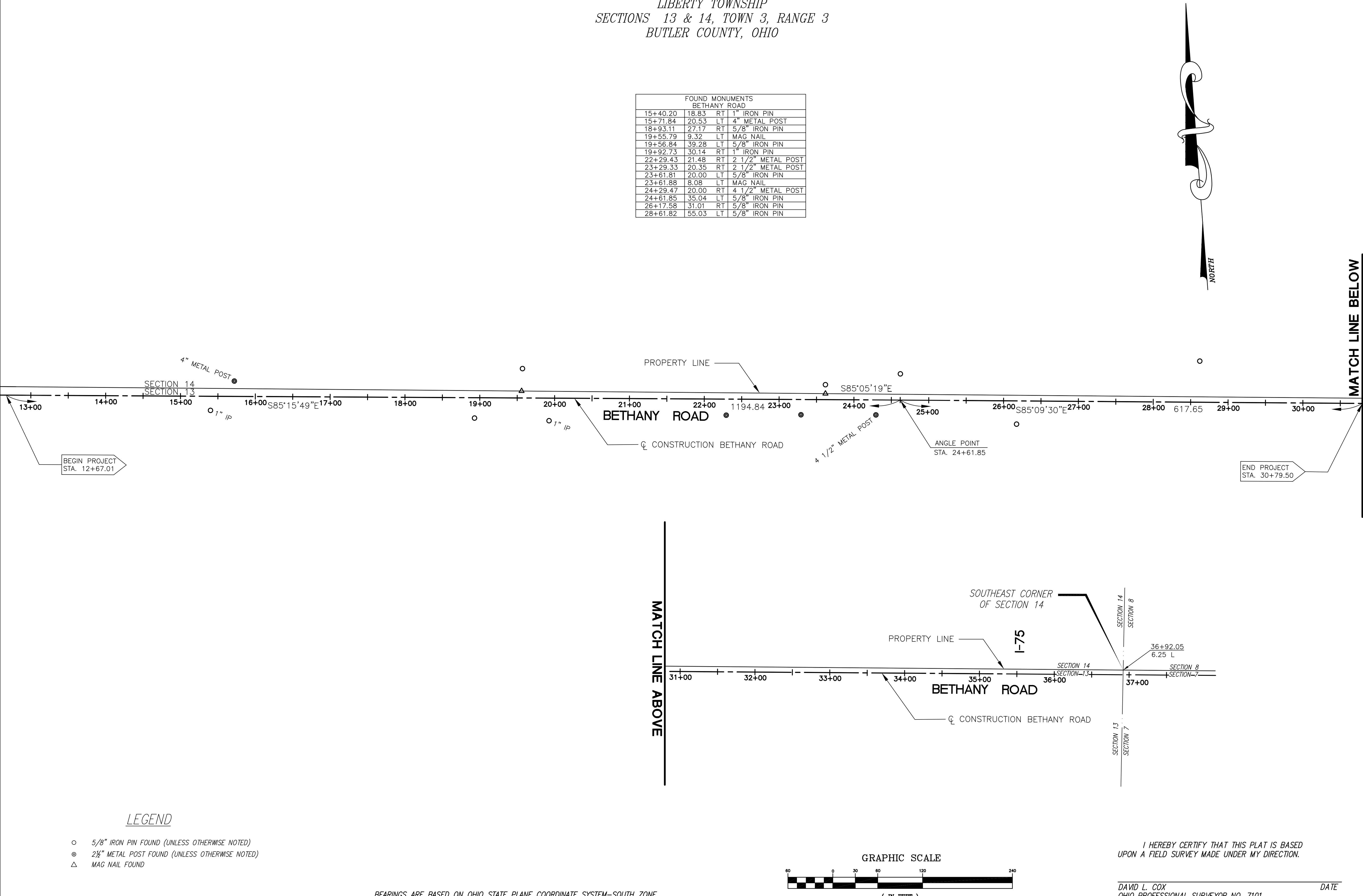
CALCULATED
SUB
CHECKED
NMM

BETHANY ROAD ROADWAY IMPROVEMENTS
OVERHEAD SIGN DETAIL

LIBERTY TOWNSHIP
SECTIONS 13 & 14, TOWN 3, RANGE 3
BUTLER COUNTY, OHIO

FOUND MONUMENTS BETHANY ROAD				
15+40.20	18.83	RT	1"	IRON PIN
15+71.84	20.53	LT	4"	METAL POST
18+93.11	27.17	RT	5/8"	IRON PIN
19+55.79	9.32	LT	MAG NAIL	
19+56.84	39.28	LT	5/8"	IRON PIN
19+92.73	30.14	RT	1"	IRON PIN
22+29.43	21.48	RT	2 1/2"	METAL POST
23+29.33	20.35	RT	2 1/2"	METAL POST
23+61.81	20.00	LT	5/8"	IRON PIN
23+61.88	8.08	LT	MAG NAIL	
24+29.47	20.00	RT	4 1/2"	METAL POST
24+61.85	35.04	LT	5/8"	IRON PIN
26+17.58	31.01	RT	5/8"	IRON PIN
28+61.82	55.03	LT	5/8"	IRON PIN

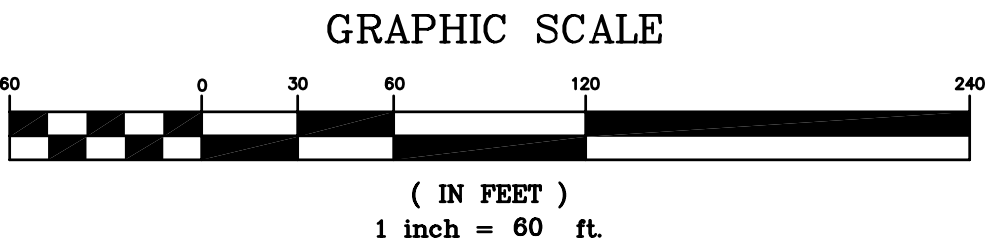
ELECTRONIC DATA ACQUISITION SYSTEMS, INC. (EDAS) HAS BEEN USED IN THE PREPARATION OF THIS PLAN. THE USER OF THIS PLAN ASSUMES ALL LIABILITY FOR ANY ERRORS OR OMISSIONS. THE USER OF THIS PLAN ASSUMES ALL LIABILITY FOR ANY ERRORS OR OMISSIONS. THE USER OF THIS PLAN ASSUMES ALL LIABILITY FOR ANY ERRORS OR OMISSIONS.



- 5/8" IRON PIN FOUND (UNLESS OTHERWISE NOTED)
⊙ 2 1/2" METAL POST FOUND (UNLESS OTHERWISE NOTED)
△ MAG NAIL FOUND

LEGEND

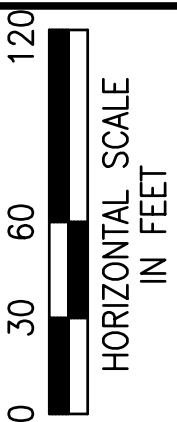
BEARINGS ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM—SOUTH ZONE.



I HEREBY CERTIFY THAT THIS PLAT IS BASED
UPON A FIELD SURVEY MADE UNDER MY DIRECTION.

DAVID L. COX
OHIO PROFESSIONAL SURVEYOR NO. 7101

DATE



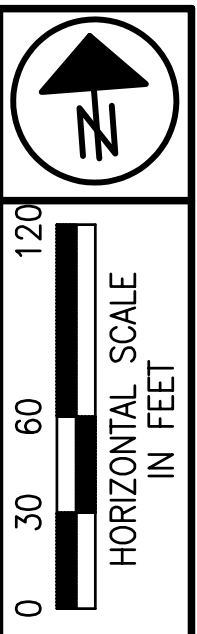
CALCULATED	DSE	CHECKED	DLC
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RIGHT-OF-WAY PLANS BETHANY ROAD
CENTERLINE MAP



50
56

LIBERTY TOWNSHIP
SECTIONS 13 & 14, TOWN 3, RANGE 3
BUTLER COUNTY, OHIO



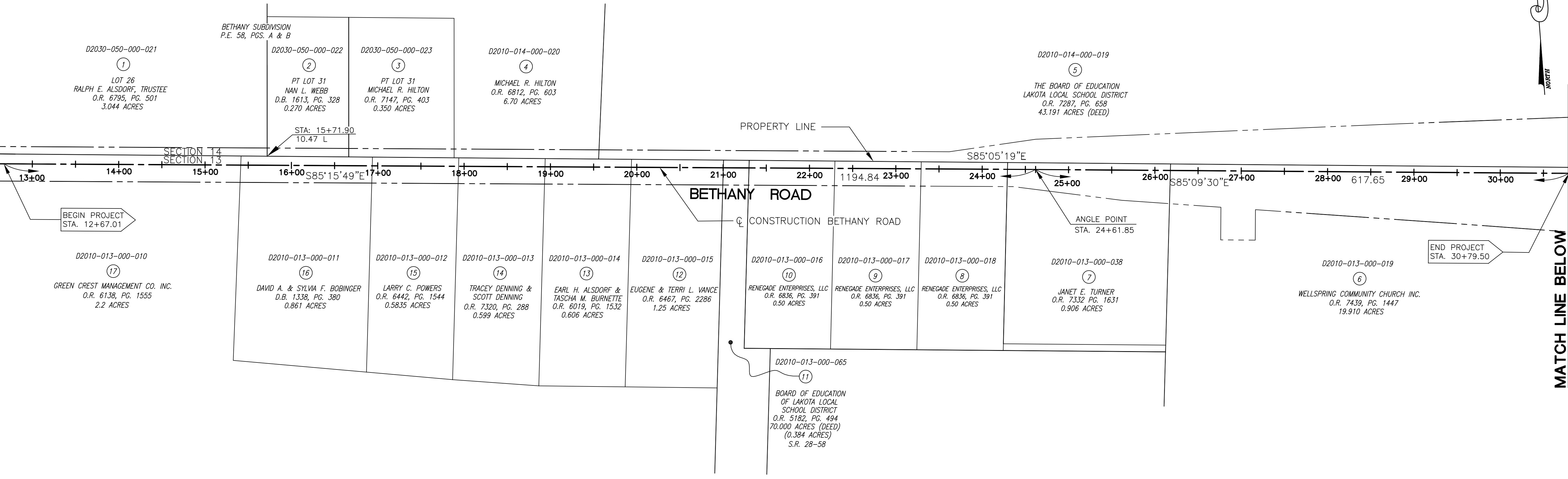
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RIGHT-OF-WAY PLANS BETHANY ROAD
PROPERTY MAP

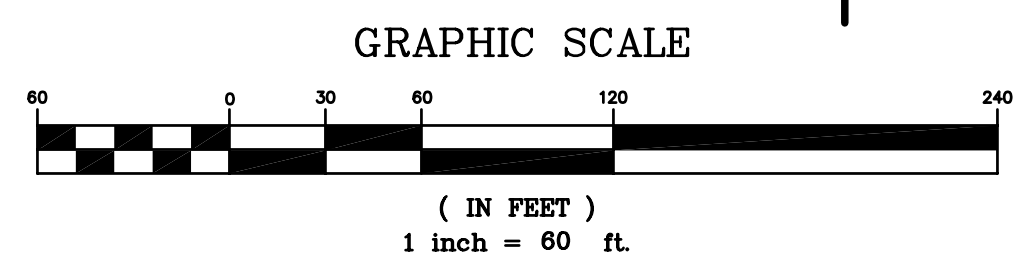
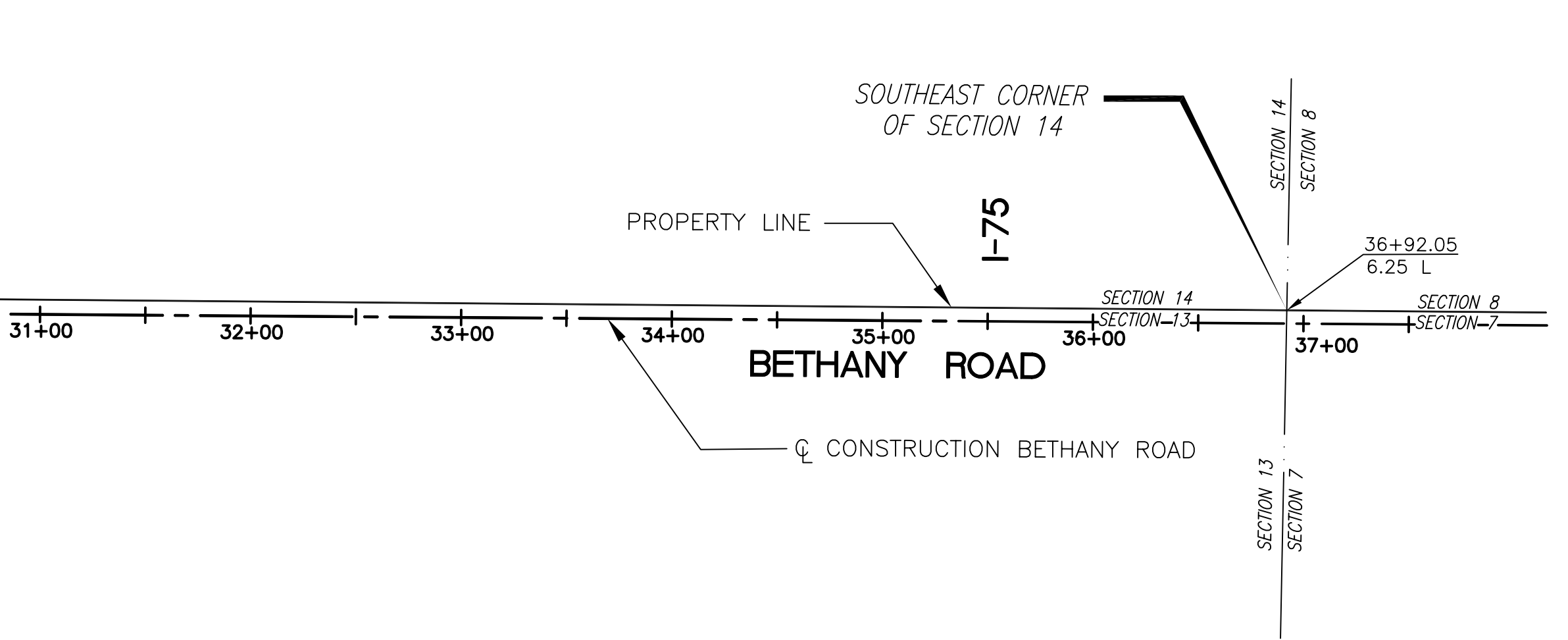
KLEINGERS
ENGINEERS AND SURVEYORS
Butler County, OH 45009
513-779-7851 Fax 513-779-7852

51
56

MATCH LINE BELOW



MATCH LINE ABOVE



BEARINGS ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM-SOUTH ZONE.

I HEREBY CERTIFY THAT THIS PLAT IS BASED UPON A FIELD SURVEY MADE UNDER MY DIRECTION.

DAVID L. COX
OHIO PROFESSIONAL SURVEYOR NO. 7101
DATE

LEGEND

T = TEMPORARY EASEMENT
WD = WARRANTY DEED
RW = RIGHT-OF-WAY EASEMENT
PRO = PRESENT RIGHT OF WAY OCCUPATION
NET RESIDUE = RECORD AREA - GROSS TAKE

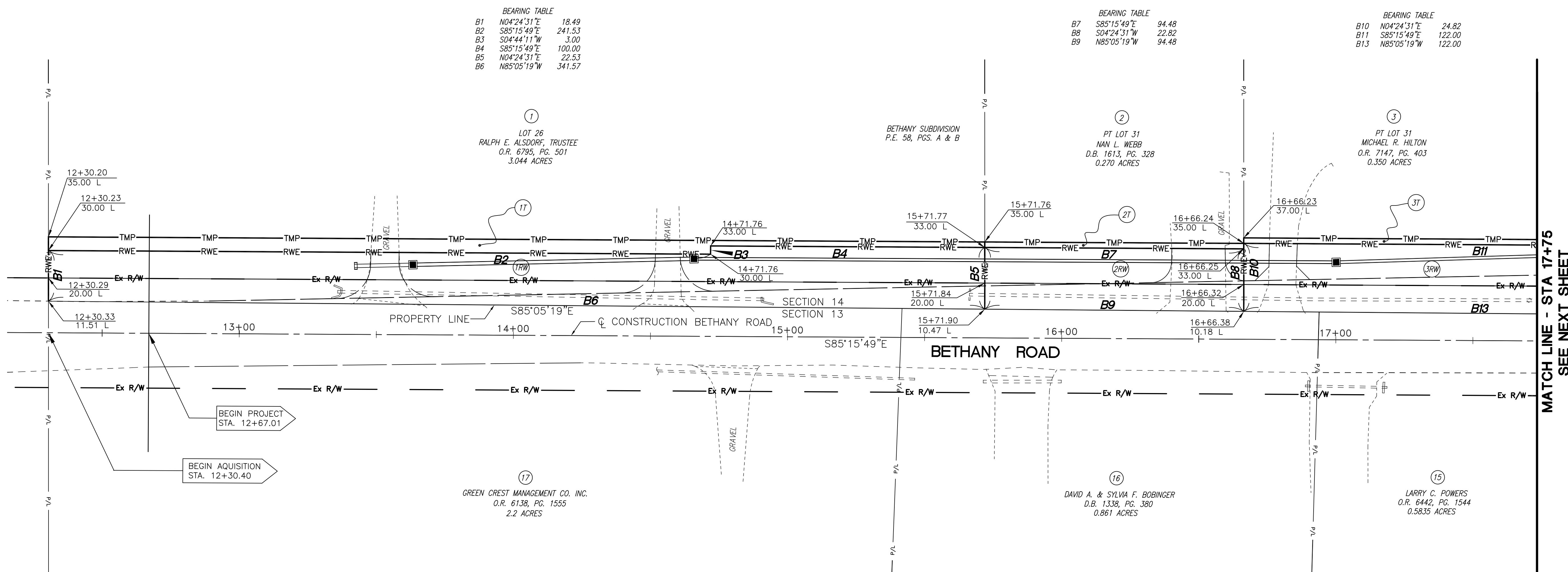
LIBERTY TOWNSHIP
SECTIONS 13 & 14, TOWN 3, RANGE 3
BUTLER COUNTY, OHIO

[illegible]

KLEINGERS
& ASSOCIATES
ENGINEERS AND SURVEYORS
6305 Centre Park Drive
West Chester, OH 45069
513-779-7851 Fax: 513-779-7852

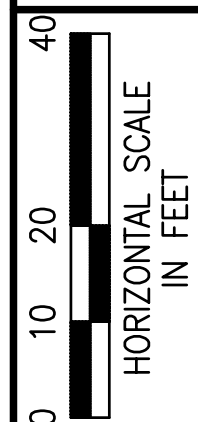
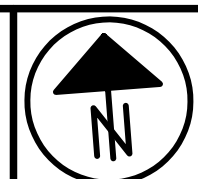
**RIGHT-OF-WAY PLANS BETHANY ROAD
OWNERSHIP TABLE**

CALCULATED	DSE
CHECKED	DLC



_____TMP_____ TEMPORARY EASEMENT

_____RWE_____ RIGHT-OF-WAY (BY EASEMENT)

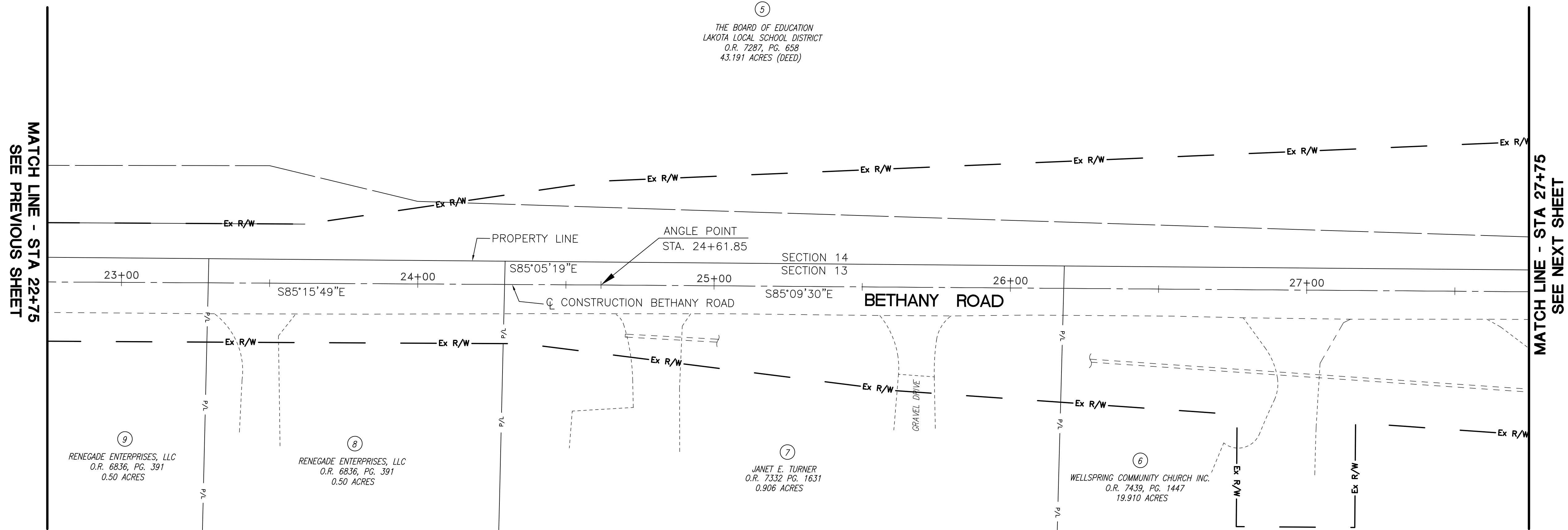


CALCULATED		CHECKED	
DSE		DLC	

**RIGHT-OF-WAY PLANS BETHANY ROAD
STA. 12+30.40 TO STA. 17+75**

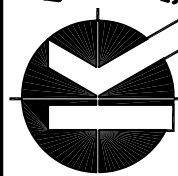
KLEINGERS
& ASSOCIATES
ENGINEERS AND SURVEYORS
6305 Centre Park Drive
West Chester, OH 45069
513-779-7851 Fax: 513-779-7852





**MATCH LINE - STA 22+75
SEE PREVIOUS SHEET**

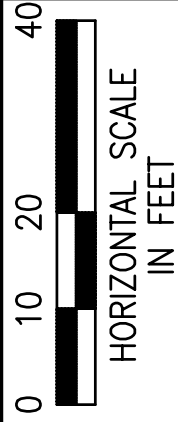
**MATCH LINE - STA 27+75
SEE NEXT SHEET**



KLEINGERS
ENGINEERS AND SURVEYORS
& ASSOCIATES
6305 Centre Park Drive
West Chester, OH 45069
513-779-7851 Fax: 513-779-7852

**RIGHT-OF-WAY PLANS BETHANY ROAD
STA. 22+75 TO STA. 27+75**

CALCULATED	CHECKED
DSE	DLC



55

56



6
WELLSPRING COMMUNITY CHURCH INC.
O.R. 7439, PG. 1447
19.910 ACRES

