

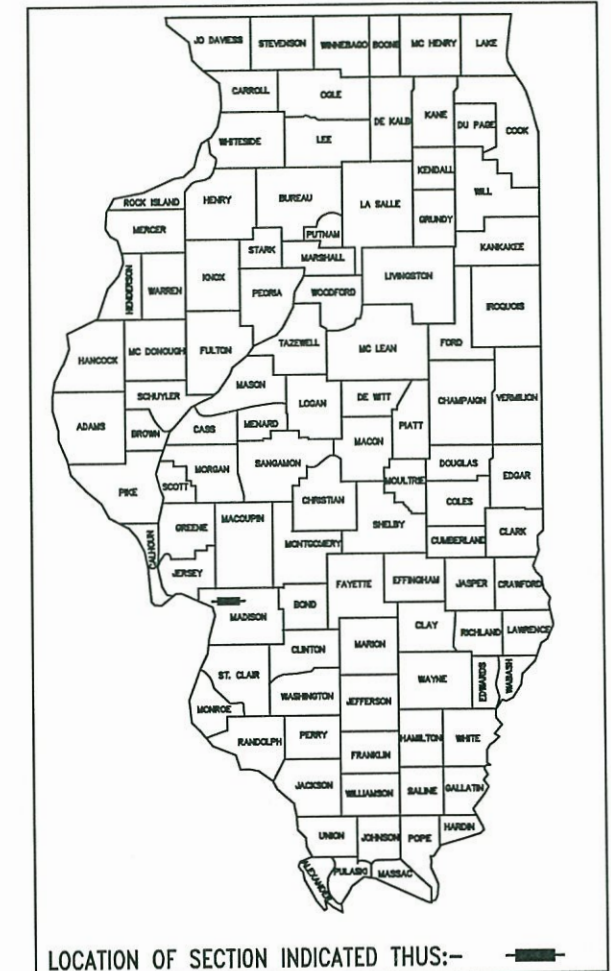
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00050-00-RS	MADISON	22	1
CONTRACT NO. 97671			

06-15-2018 LETTING ITEM 232

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

## STU FUNDS

### BERKSHIRE BOULEVARD SECTION 14-00050-00-RS FAU ROUTE 8967 PROJECT R4JF(426) VILLAGE OF EAST ALTON, ILLINOIS MADISON COUNTY JOB C-98-364-14



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED: *Feb. 1 2018*  
*Joe L. Kirkwood*  
MAYOR

PASSED: *5/10 2018*  
*David J. Davonour*  
DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED UPON LIMITED  
REVIEW: *5/10 2018*  
*Jeffrey Keirn*  
JEFFREY KEIRN, P.E.  
REGIONAL ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS



DATE SIGNED *2-1-2018*  
EXPIRATION DATE *11-30-2019*

DESIGN FIRM REGISTRATION  
NO. 184-00092

CONTACT JULIE AT 811 OR 800-892-0123

With the following:



County MADISON  
City / Township VILLAGE OF EAST ALTON  
SW. 1/4 15-5-9  
SE. 1/4 16-5-9  
48 HOURS (2 working days) BEFORE YOU DIG

AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

AMEREN IP 2600 N. CENTER STREET MARYVILLE, ILLINOIS 62062 (618) 346-1273 (GAS)	AT&T 203 GOETHE COLLINSVILLE, ILLINOIS 62234 (618) 346-6400
AMEREN UE 700 OAKWOOD AVENUE ALTON, ILLINOIS 62002 (618) 463-4051 (ELECTRIC)	VILLAGE OF EAST ALTON STREET DEPT. 119 WEST MAIN EAST ALTON, ILLINOIS 62024 (618) 259-7522
CHARTER COMMUNICATIONS 4767 SIGNATURE INDUSTRIAL DR. EDWARDSVILLE, ILLINOIS 62025 (618) 779-4179	VILLAGE OF EAST ALTON WATER DEPT. 119 WEST MAIN EAST ALTON, ILLINOIS 62024 (618) 259-4646
VILLAGE OF EAST ALTON SEWER DEPT. 119 WEST MAIN EAST ALTON, ILLINOIS 62024 (618) 254-2728	

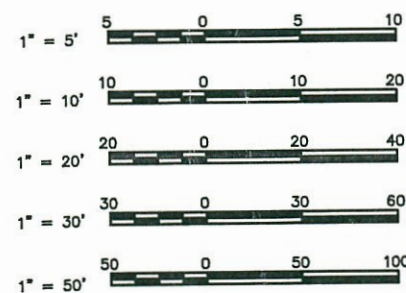
#### INDEX TO SHEETS

1. COVER SHEET
2. GENERAL NOTES, LEGENDS & CONTROL POINTS
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- 4.-5. SCHEDULES
6. TYPICAL SECTIONS
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11. TRAFFIC CONTROL
12. SIGNAL PLAN
13. CABLE DIAGRAM
14. PAVEMENT MARKING PLAN
- 15.-17. CONSTRUCTION DETAILS
- 18.-22. CROSS SECTIONS

#### HIGHWAY STANDARDS

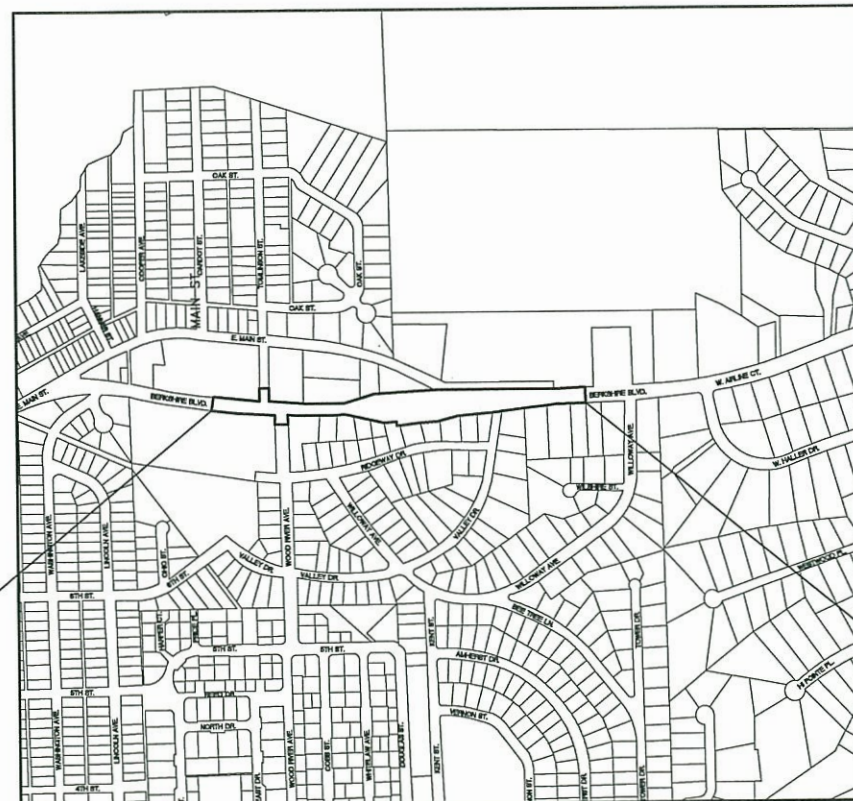
424001-10	701502-08	780001-05
424016-04	701602-09	873001-02
424026-02	701606-10	876001-04
442201-03	701611-01	878001-10
606001-07	701801-06	880006-01
701006-05	701901-07	886001-01
701011-04	720001-01	886006-01
701301-04	720006-04	
701501-06	728001-01	

#### SCALES



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS THE ABOVE SCALES MAY BE USED.

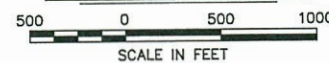
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL  
DESIGN SPEED = 30 M.P.H. AND 35 M.P.H. AS POSTED  
2016 ADT = 5,600



PROJECT BEGINS  
STA. 11+00

PROJECT ENDS  
STA. 28+29

#### LOCATION MAP



GROSS LENGTH = 1,729 FEET = 0.327 MILES  
NET LENGTH = 1,428 FEET = 0.270 MILES



Sheppard Morgan & Schwaab, Inc.  
CONSULTING ENGINEERS & LAND SURVEYORS  
215 Market Street  
Alton, Illinois 62002  
618/482-9755

Q:\CIVIL\_3D PROJECTS\E. ALTON (429080.0) BERSHIRE BLVD\Production Drawings\EA BERSHIRE CVR.dwg, 2/1/2018 12:40:38 PM, cpruitt, 1:2



**STANDARD SYMBOL LEGEND**

**EXISTING**

- EXISTING GUY POLE - -○-
- EXISTING LIGHT POLE - -X
- EXISTING POWER POLE - -○-
- EXISTING TELEPHONE POLE - -○-
- EXISTING GUY WIRE - -←
- EXISTING TRANSMISSION TOWER - □
- EXISTING ELECTRIC SPLICE BOX - □E
- EXISTING TELEPHONE SPLICE BOX - □Δ
- EXISTING CABLE SPLICE BOX - □TV
- EXISTING WATER HYDRANT - FH
- EXISTING GAS METER - G
- EXISTING WATER METER - W
- EXISTING WATER VALVE - V
- EXISTING GAS VALVE - G
- EXISTING FIRE HYDRANT - FH
- EXISTING SANITARY MANHOLE TOP - ○
- EXISTING STORM MANHOLE TOP - ○
- EXISTING TELEPHONE MANHOLE TOP - ○T
- EXISTING SANITARY CLEAN OUT - ○C
- CONTROL POINT - ΔXXX
- BENCHMARK - B.M.
- TEST PIT / NUMBER - T.P.# X
- BORING / NUMBER - B.# X
- RIGHT-OF-WAY MARKER - MON
- AXLE FOUND - AXLE
- BOLT FOUND - BOLT
- CHISELED "X" FOUND - X
- PIN FOUND - IP
- PINCH PIPE FOUND - IP
- PK NAIL FOUND - PK
- RAILROAD SPIKE FOUND - RR
- STONE FOUND - STONE
- BRASS MONUMENT FOUND - MON
- IRON PIPE FOUND - IP
- MONUMENT FOUND - MON
- REBAR FOUND - RBR
- EXISTING MAILBOX - F
- EXISTING FENCE POST - F
- EXISTING GATE POST - F
- EXISTING FLAG POLE - F
- EXISTING GUARD POST - GP
- EXISTING ADVERTISING SIGN - A
- EXISTING TRAFFIC SIGN - T
- EXISTING PARKING METER - P
- EXISTING RAILROAD MILE POST - MP
- EXISTING RAILROAD SIGNAL CONTROLLER - SC
- EXISTING RAILROAD CROSSING GATE - CG
- EXISTING TRAFFIC SIGNAL - TS
- EXISTING TRAFFIC SIGNAL CONTROLLER - TSC
- EXISTING HANDHOLE - H
- EXISTING DOUBLE HANDHOLE - DH
- EXISTING MAST ARM BASE - MAB
- EXISTING DECIDUOUS TREE / SIZE - ○XX"
- EXISTING EVERGREEN TREE / SIZE - ○XX"
- EXISTING STUMP / SIZE - FXX"
- EXISTING BUSH - B
- EXISTING SHRUB - S
- EXISTING TREE TO BE REMOVED - X

**SIDEWALK LEGEND**

- RAMP - MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- DETECTABLE WARNING
- L - LANDING - MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- BT - BLENDED TRANSITION - MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
- T - TRANSITION TO MEET EXISTING SIDEWALK
- P - PASSING SPACE - MIN. SIZE 5' X 5', MAX CROSS SLOPE = 2.0%

**PROPOSED**

- PROPOSED GUY POLE - -○-
- PROPOSED LIGHT POLE - -X
- PROPOSED POWER POLE - -○-
- PROPOSED TELEPHONE POLE - -○-
- PROPOSED GUY WIRE - -←
- PROPOSED TRANSMISSION TOWER - □
- PROPOSED ELECTRIC SPLICE BOX - □E
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- PROPOSED SANITARY MANHOLE TOP - ○
- PROPOSED STORM MANHOLE TOP - ○
- PROPOSED TELEPHONE MANHOLE TOP - ○T
- PROPOSED SANITARY CLEAN OUT - ○C
- PROPOSED MAILBOX - F
- PROPOSED GUARD POST - GP
- PROPOSED ADVERTISING SIGN - A
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- PROPOSED HANDHOLE - H
- PROPOSED DOUBLE HANDHOLE - DH
- PROPOSED MAST ARM BASE - MAB
- PROPOSED DECIDUOUS TREE / SIZE - ○XX"
- PROPOSED EVERGREEN TREE / SIZE - ○XX"
- PROPOSED BUSH - B
- PROPOSED PLANT - P
- PROPOSED EDGE OF PAVEMENT ELEVATION - + 512.00 EP
- PROPOSED PAVEMENT ELEVATION - + 505.50 P
- PROPOSED CURB ELEVATION - + 550.25 TC
- PROPOSED SIDEWALK ELEVATION - + 515.15 SW
- PROPOSED FLOWLINE ELEVATION - + 501.58 FL

**STANDARD LINE TYPE LEGEND**

**EXISTING FEATURES**

- EXISTING CENTERLINE - - - - -
- EXISTING BASELINE - - - - -
- EXISTING RIGHT-OF-WAY - - - - -
- EXISTING SECTION LINE - - - - -
- EXISTING PROPERTY LINE - P/L
- EXISTING EASEMENT - - - - -
- EXISTING SETBACK - - - - -
- EXISTING MAJOR CONTOUR - 500
- EXISTING MINOR CONTOUR - 501
- EXISTING DITCH - - - - -
- EXISTING POND, LAKE, BODY OF WATER, ETC. - - - - -
- EXISTING RAILROAD - - - - -
- EXISTING BRUSH / HEDGE / TREE LINE - - - - -
- EXISTING FENCE - - - - -
- EXISTING GUARDRAIL - - - - -
- EXISTING CULVERT - - - - -
- EXISTING STORM SEWER - - - - -
- EXISTING SANITARY SEWER - - - - -
- EXISTING FORCEMAIN - - - - -
- EXISTING WATER - - - - -
- EXISTING UNDERGROUND ELECTRIC - - - - -
- EXISTING GAS - - - - -
- EXISTING UNDERGROUND TELEPHONE - - - - -
- EXISTING FIBER OPTIC - - - - -
- EXISTING UNDERGROUND CABLE TV - - - - -
- EXISTING OVERHEAD TELEPHONE - - - - -
- EXISTING OVERHEAD ELECTRIC - - - - -
- EXISTING OVERHEAD CABLE TV - - - - -

**PROPOSED FEATURES**

- PROPOSED CENTERLINE - - - - -
- PROPOSED BASELINE - - - - -
- PROPOSED RIGHT-OF-WAY - - - - -
- PROPOSED LOT LINE - - - - -
- PROPOSED EASEMENT - - - - -
- PROPOSED CONSTRUCTION EASEMENT OR TEMPORARY USE PERMIT - - - - -
- PROPOSED CONSTRUCTION LIMITS - - - - -
- PROPOSED SETBACK - - - - -
- PROPOSED MAJOR CONTOUR - 500
- PROPOSED MINOR CONTOUR - 501
- PROPOSED DITCH - - - - -
- PROPOSED POND, LAKE, BODY OF WATER, ETC. - - - - -
- PROPOSED RAILROAD - - - - -
- PROPOSED FENCE - - - - -
- PROPOSED GUARDRAIL - - - - -
- PROPOSED PERIMETER EROSION BARRIER - - - - -
- PROPOSED CULVERT - - - - -
- PROPOSED STORM SEWER - - - - -
- PROPOSED SANITARY SEWER - - - - -
- PROPOSED FORCEMAIN - - - - -
- PROPOSED WATER - - - - -
- PROPOSED UNDERGROUND ELECTRIC - - - - -
- PROPOSED GAS - - - - -
- PROPOSED UNDERGROUND TELEPHONE - - - - -
- PROPOSED FIBER OPTIC - - - - -
- PROPOSED UNDERGROUND CABLE TV - - - - -
- PROPOSED OVERHEAD TELEPHONE - - - - -
- PROPOSED OVERHEAD ELECTRIC - - - - -
- PROPOSED OVERHEAD CABLE TV - - - - -

**ABBREVIATIONS**

ADT	AVERAGE DAILY TRAFFIC	OL	OPEN LID
BK	BACK	PC	POINT OF CURVE
BM	BENCH MARK	PE	PRIVATE ENTRANCE
BVCE	BEGIN VERTICAL CURVE ELEVATION	PI	POINT OF INTERSECTION
BVCS	BEGIN VERTICAL CURVE STATION	PK	PK NAIL
C&G	CURB AND GUTTER	PP	POWER POLE
CL	CENTER LINE	PRCF	PRECAST REINFORCED CONCRETE FLARED
CE	COMMERCIAL ENTRANCE	PT	POINT OF TANGENT
CI	CAST IRON	PVC	POINT OF VERTICAL CURVE
CL	CLOSED LID	R	RADIUS
CM	CONCRETE MONUMENT	RBR	REBAR
CMP	CORRUGATED METAL PIPE	RDMH	RESTRICTED DEPTH MANHOLE
CONC	CONCRETE	ROW	RIGHT OF WAY
CT	CRIMP TOP PIPE	RR	RAIL ROAD
CJ YD	CUBIC YARD	RRPM	RAISED REFLECTIVE PAVEMENT MARKER
DE	DRAINAGE EASEMENT	RT	RIGHT
DIP	DUCTILE IRON PIPE	S	SOUTH
E	EAST	SE	SOUTHEAST
ELEV	ELEVATION	SL	SECTION LINE
EP	EDGE OF PAVEMENT	SS1	STORM SEWER TYPE 1
EQN STA	EQUATION STATION	SS2	STORM SEWER TYPE 2
ES	EDGE OF SHOULDER	SS3	STORM SEWER TYPE 3
FE	FIELD ENTRANCE	STA	STATION
FH	FIRE HYDRANT	SW	SOUTHWEST OR SIDEWALK
FL	FLOWLINE	TB	TRENCH BACKFILL
FT	FOOT	TBR	TO BE REMOVED
FWD	FORWARD	TC	TOP OF CURB
GP	GUARD POST	TCE	TEMPORARY CONSTRUCTION EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE	TPM	TEMPORARY PAVEMENT MARKING
HMA	HOT-MIX ASPHALT	TPPM	THERMOPLASTIC PAVEMENT MARKING
IP	IRON PIPE	TUP	TEMPORARY USE PERMIT
LT	LEFT	TY	TYPE
MON	MONUMENT	TYP	TYPICAL
MP	MILE PIPE	VC	VERTICAL CURVE
N	NORTH	VCP	VITRIFIED CLAY PIPE
NE	NORTHEAST	W	WEST
NW	NORTHWEST	WMA	WATER MAIN QUALITY
O&C	OIL AND CHIP		

**GENERAL NOTES**

- THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016 AND THE SPECIAL PROVISIONS OF THE PROJECT CONTRACT.
- THE PLANS SHOW THE APPROXIMATE LOCATION OF KNOWN UTILITIES, BUT DO NOT SHOW HOUSE OR SERVICE CONNECTIONS. UTILITY INFORMATION PROVIDED IS BASED ON INFORMATION OBTAINED FROM UTILITY COMPANIES AND SHALL NOT BE CONSIDERED TO BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL USE ALL DUE PRECAUTION NOT TO DAMAGE OR DISTURB ANY UTILITIES AND THE ENTIRE COST OF MAKING REPAIRS TO, OR REPLACEMENT OF, ANY DAMAGED LINE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PROPOSED ELEVATIONS SHOWN ON THE PLANS AS +/- ARE APPROXIMATE, EXACT ELEVATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. IF APPLICABLE, ELEVATIONS SHALL BE DETERMINED PRIOR TO FABRICATION OF THE DRAINAGE STRUCTURES.
- SEE TYPICAL SECTION SHEETS FOR TYPICAL SECTION NOTES.
- PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS WERE CALCULATED BASED ON USING 112 LBS. / SQ. YD. / IN.
- UNLESS OTHERWISE PROVIDED FOR HEREIN, THE CONTRACTOR SHALL PROTECT AND RESTORE EXISTING TRAFFIC SIGNS IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. AT LOCATIONS WHERE NEW SIGNS REPLACE EXISTING SIGNS, THE CONTRACTOR SHALL REMOVE THE EXISTING SIGNS AND DELIVER THEM TO THE VILLAGE OF EAST ALTON STREET DEPARTMENT. THE COST OF THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL CONSTRUCTION ON THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE "PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES" (PROWAG) WITHIN THE PEDESTRIAN ACCESS ROUTE (PAR). THE PAR IS A SPACE WITH A MINIMUM WIDTH OF 4 FEET WITHIN SIDEWALKS, CURB RAMPS, DRIVEWAY PAVEMENTS AND PAVEMENT SURFACE WITHIN CROSSWALKS.
- AT LOCATIONS WHERE CONCRETE CURB, TYPE B OR COMBINATION CONCRETE CURB AND GUTTER IS REMOVED AND REPLACED ADJACENT TO AREAS WHERE THE HOT MIX ASPHALT RESURFACING EXTENDS TO THE CURB, DEPRESSED CURBS FOR DRIVEWAYS OR CURB RAMPS SHALL BE PLACED AT THE PROPER HEIGHT REQUIRED TO MEET THE PROPOSED FINAL PAVEMENT SURFACE.
- FOR DRIVEWAY ENTRANCE ADJACENT TO PAVING AREAS FEATHER EDGE THE LEVELING BINDER AT 2' FROM THE EDGE OF PAVEMENT AND FEATHER EDGE THE HMA SURFACE AT 5' FROM THE EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. BITUMINOUS MATERIALS (TACK COAT) SHALL BE APPLIED TO THESE DRIVEWAY AREAS.

**COMMITMENTS**

NONE

**BENCHMARK INFORMATION**

SITE BENCHMARK:  
FIRE HYDRANT 64 FEET WEST OF TOMLINSON STREET "M" ON MUELLER  
STA. 13+16.94, 37.21' LT.  
ELEV. = 449.68

**SURVEY CONTROL POINTS**

VERTICAL CONTROL (BENCH MARKS)			
BENCHMARK	LOCATION	ELEVATION	DESCRIPTION
8	STA. 26+26.21, 27.91 RT.	517.82	R.R. SPIKE IN POWER POLE

**HORIZONTAL CONTROL**

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	807843.404	2315272.697	440.09	REBAR WITH CONTROL POINT CAP
2	807879.300	2315546.216	445.10	REBAR WITH CONTROL POINT CAP
3	807777.062	2315776.618	452.96	CUT CROSS
4	807842.607	2316070.4850	470.82	REBAR WITH CONTROL POINT CAP
5	807803.782	2316465.131	494.36	REBAR WITH CONTROL POINT CAP
6	807877.874	2316854.318	514.79	REBAR WITH CONTROL POINT CAP
11	807929.368	2315690.534	451.31	CUT CROSS

\* ELEVATIONS SHOULD BE CHECKED FROM A BENCHMARK.

REVISIONS			
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**SMS** Sheppard, Morgan & Schwaab, Inc.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
215 Market Street, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com  
DESIGN FIRM # 184-000992

VILLAGE OF EAST ALTON, ILLINOIS  
SECTION 14-000.50-00-RS  
BERKSHIRE BOULEVARD  
GENERAL NOTES, LEGENDS & CONTROL POINTS

CONTRACT NO. 97671	
REF. BK.	PG.
JOB NO.	429080.1
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	NOV. 2017
SCALE:	NONE
SHEET	2 OF 22

**SUMMARY OF QUANTITIES**


CODE NO.	CONSTRUCTION TYPE CODE ITEM	0005	
		UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	30
20200100	EARTH EXCAVATION	CU YD	115
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	20
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	40
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	4,978
40600837	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N70	TON	594
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	523
40603540	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	655
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	18
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	156
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	2,851
42400800	DETECTABLE WARNINGS	SQ FT	62
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	74
44000300	CURB REMOVAL	FOOT	119
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	80
44000600	SIDEWALK REMOVAL	SQ FT	1,453
44200104	PAVEMENT PATCHING, TYPE I, 9 INCH	SQ YD	189
44200108	PAVEMENT PATCHING, TYPE II, 9 INCH	SQ YD	276
44200112	PAVEMENT PATCHING, TYPE III, 9 INCH	SQ YD	41
44200114	PAVEMENT PATCHING, TYPE IV, 9 INCH	SQ YD	66
60600605	CONCRETE CURB, TYPE B	FOOT	128
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	80
67100100	MOBILIZATION	LSUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,396
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	230
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	172
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4,689

CODE NO.	CONSTRUCTION TYPE CODE ITEM	0005	
		UNIT	QUANTITY
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	80
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	831
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	111
* 72000100	SIGN PANEL - TYPE 1	SQ FT	90
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	146
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	172
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,689
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	80
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	831
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	111
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2
* 81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	21
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	32
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	39
* 87502660	TRAFFIC SIGNAL POST, ALUMINUM 12 FT.	EACH	1
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3
* 87900100	DRILL EXISTING FOUNDATION	EACH	1
* 88102740	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	2
* 88600100	DETECTOR LOOP, TYPE I	FOOT	541
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	2
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	34
X2010400	STUMP REMOVAL ONLY	UNIT	18
X4406030	PARTIAL DEPTH REMOVAL, TYPE I, 3"	SQ YD	206
X4406230	PARTIAL DEPTH REMOVAL, TYPE II, 3"	SQ YD	55
X4421000	PARTIAL DEPTH PATCHING	TON	44
Δ Z0076600	TRAINEES	hour	500
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
Δ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	hour	500
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	2,057

\* DENOTES SPECIALTY PAY ITEM

Δ 0042

REVISIONS									
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 CONSULTING ENGINEERS AND LAND SURVEYORS  
210 Market Street, Alton, IL 62002 618/482-3765 E-mail: ma@smsengineers.com  
 DESIGN FIRM # 184-000952

VILLAGE OF EAST ALTON, ILLINOIS  
 SECTION 14-00050-00-RS  
 BERKSHIRE BOULEVARD  
 SUMMARY OF QUANTITIES

CONTRACT NO.	97671
EA BERKSHIRE QUANT.DWG	
REF. BK.	PG.
JOB NO. 429080	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: NOV. 2017	
SCALE: NONE	
SHEET	3 OF 22

**PAVEMENT MARKING SCHEDULE**

ITEM	QUANTITY	UNIT
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE)	870	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SKIP DASH / DOUBLE YELLOW)	3,819	FOOT
TOTAL 4"	4,689	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE CROSSWALKS)	80	FOOT
TOTAL 6"	80	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS)	639	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE CROSSWALK)	137	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE STOP BARS)	55	FOOT
TOTAL 12"	831	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE CROSSWALKS)	88	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)	23	FOOT
TOTAL 24"	111	FOOT
THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)	172	SQ. FT.
TOTAL LETTERS AND SYMBOLS	172	SQ. FT.
PAVEMENT MARKING REMOVAL - WATER BLASTING	34	SQ. FT.

**SIGNING SCHEDULE**

LOCATION STATION	LEGEND OR TYPE	MUTCD SIGN DESIGNATION	SIZE W X H (INCHES)	SIGN PANEL TYPE 1 (SQ. FT.)	TELESCOPING STEEL SIGN SUPPORT (FOOT)
9+10 RT.	PEDESTRIAN	W11-2	36" X 36"	9.00	18.2
	"AHEAD"	W16-9P	24" X 12"	2.00	
11+10 RT.	PEDESTRIAN	W11-2	36" X 36"	9.00	18.2
	DOWNWARD DIAGONAL ARROW	W16-7P	24" X 12"	2.00	
15+75 RT.	PEDESTRIAN	W11-2	36" X 36"	9.00	18.2
	"AHEAD"	W16-9P	24" X 12"	2.00	
17+57 RT.	PEDESTRIAN	W11-2	36" X 36"	9.00	18.2
	DOWNWARD DIAGONAL ARROW	W16-7P	24" X 12"	2.00	
11+20 LT.	PEDESTRIAN	W11-2	36" X 36"	9.00	18.2
	DOWNWARD DIAGONAL ARROW	W16-7P	24" X 12"	2.00	
13+00 LT.	PEDESTRIAN	W11-2	36" X 36"	9.00	18.2
	"AHEAD"	W16-9P	24" X 12"	2.00	
13+52 LT.	PEDESTRIAN PUSH BUTTON	R10-4B	9" X 12"	0.75	N/A
14+07 LT.	PEDESTRIAN PUSH BUTTON	R10-4B	9" X 12"	0.75	N/A
15+11 LT.	PEDESTRIAN PUSH BUTTON	R10-4B	9" X 12"	0.75	N/A
17+70 LT.	PEDESTRIAN	W11-2	36" X 36"	9.00	18.2
	DOWNWARD DIAGONAL ARROW	W16-7P	24" X 12"	2.00	
20+00 LT.	PEDESTRIAN	W11-2	36" X 36"	9.00	18.2
	"AHEAD"	W16-9P	24" X 12"	2.00	
TOTAL				90.25	145.6

**SIGN SCHEDULE NOTES**

1. ALL SIGNS SHALL BE LOCATED PER HIGHWAY STANDARD 720006 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

**EARTHWORK SCHEDULE**

LOCATION	EARTH EXCAVATION (CUT) (CU. YD.)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE * (CU. YD.)	EMBANKMENT (FILL) (CU. YD.)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU. YD.)
STA. 11+13.46 TO 13+62.80	59	44	1	43
STA. 16+65.12 TO 18+12.85	56	42	1	41
<b>Total :</b>	<b>115</b>	<b>86</b>	<b>2</b>	<b>84</b>

\* ASSUME SHRINKAGE FACTOR = 25%

**PAVEMENT PATCHING SCHEDULE**

STATION TO STATION	LANE	LENGTH (FEET)	WIDTH (FEET)	PAVEMENT PATCHING, 9 INCH (SQ. YD.)				PARTIAL DEPTH REMOVAL, 3" (SQ. YD.)		PARTIAL DEPTH PATCHING (TON)
				TYPE I	TYPE II	TYPE III	TYPE IV	TYPE I	TYPE II	
14+32 Lt.	14+49 Lt.	C.L. WB-WB	17	2.5						0.8
14+32 Lt.	14+49 Lt.	C.L. WB-EB	17	2						0.6
14+32 Rt.	14+46.5 Rt.	O-EB	14.5	3						0.8
14+48.5 Lt.	14+54.5 Lt.	O-WB	5	11		6.1				
14+48.5 Lt.	14+54.5 Lt.	I-WB	5	11		6.1				
14+48.5 Rt.	14+54.5 Rt.	I-EB	7	11		8.6				
14+49 Lt.	14+84 Lt.	C.L. WB-WB	35	2.5					9.7	1.6
14+77 Rt.	14+85 Rt.	O-EB	8	3					2.7	0.4
14+83 Lt.	14+88 Lt.	O-WB	5	11		6.1				
14+83 Lt.	14+89 Lt.	I-WB	6	11		7.3				
14+85 Rt.	14+90 Rt.	I-EB	5	11		6.1				
14+85 Rt.	14+90 Rt.	O-EB	5	12		6.7				
14+90 Lt.	15+15.5 Lt.	C.L. WB-WB	25	2					5.6	0.9
14+90	14+99	C.L.	9	4					4.0	0.7
14+90 Lt.	15+24.5 Rt.	C.L. EB-EB	34	3					11.3	1.9
14+90 Lt.	15+21.5 Rt.	O-EB	31	4					13.8	2.3
15+06 Rt.	15+31 Rt.	RADIUS	25	VAR.			16.7			
15+24.5 Rt.	15+30.5 Rt.	I-EB	6	11		7.3				
15+24.5 Rt.	15+30.5 Rt.	O-EB	6	11		7.3				
15+31 Rt.	15+42 Rt.	I-EB	8	7					6.2	1.0
15+30 Rt.	15+42 Rt.	O-EB	9	6					6.0	1.0
15+54 Rt.	15+58 Rt.	I-EB	4	12		5.3				
15+62 Rt.	15+66 Rt.	O-EB	4	2					0.9	0.1
15+82 Rt.	15+86 Rt.	O-EB	4	4					1.8	0.3
15+88 Rt.	15+93 Rt.	C.L. EB-EB	5	2.5					1.4	0.2
15+89 Rt.	15+93 Rt.	O-EB	4	2					0.9	0.1
15+93 Lt.	15+96.5 Lt.	O-WB	3.5	11	4.3					
15+93 Lt.	15+96.5 Lt.	I-WB	3.5	11	4.3					
15+93 Rt.	15+96.5 Rt.	I-EB	3.5	11	4.3					
15+93 Rt.	15+96.5 Rt.	O-EB	3.5	11	4.3					
16+02.5 Lt.	16+06 Lt.	O-WB	3.5	11	4.3					
16+02.5 Lt.	16+06 Lt.	I-WB	3.5	11	4.3					
16+02.5 Rt.	16+06 Rt.	I-EB	3.5	11	4.3					
16+21 Lt.	16+27 Lt.	O-WB	3	11	3.7					
16+21 Lt.	16+27 Lt.	I-EB	3	2					0.7	0.1
16+31.5 Rt.	16+35 Rt.	O-EB	3.5	6	2.3					
16+60.5 Rt.	16+64 Rt.	O-EB	3.5	11	4.3					
16+94 Rt.	16+96 Rt.	I-EB	2	11					2.4	0.4
16+94 Rt.	16+96 Rt.	O-EB	2	11					2.4	0.4
16+96 Lt.	17+02 Lt.	O-WB	3	11	3.7					
16+96 Lt.	17+02 Lt.	I-WB	3	11	3.7					
16+99 Rt.	17+05 Rt.	I-EB	VAR.	11					3.8	0.6
16+99 Rt.	17+05 Rt.	O-EB	VAR.	11					3.4	0.6
17+11 Lt.	17+28 Lt.	C.L. WB-WB	17	2					3.8	0.6
17+16 Rt.	17+22 Rt.	O-EB	6	11		7.3				
17+21 Rt.	17+26 Rt.	I-EB	6	5					3.3	0.6
17+28 Lt.	17+34 Lt.	O-WB	5	11		6.1				
17+28 Lt.	17+34 Lt.	I-WB	5	11		6.1				
17+29 Rt.	17+34 Lt.	I-EB	4	11	4.9					
17+42 Rt.	17+45 Rt.	O-EB	3	2					0.7	0.1
17+51 Lt.	17+57 Lt.	O-WB	6	6					4.0	0.7
17+61 Rt.	17+72 Rt.	I-EB	11	6					7.3	1.2
17+96 Lt.	18+04 Lt.	O-WB	6	11		7.3				
17+96 Lt.	18+04 Lt.	I-WB	6	11		7.3				
17+97 Rt.	18+03 Rt.	I-EB	4	11	4.9					
17+97 Rt.	18+03 Rt.	O-EB	4	11	4.9					
18+17 Rt.	18+19 Rt.	I-EB	2	11					2.4	0.4
18+17 Rt.	18+19 Rt.	O-EB	2	11					2.4	0.4
18+27 Rt.	18+29 Rt.	I-EB	2	6					1.3	0.2
18+27 Rt.	18+49 Rt.	C.L. EB-EB	22	2					4.9	0.8
18+42 Lt.	18+94.5 Lt.	C.L. WB-WB	52.5	2					11.7	2.0
18+49 Rt.	18+52 Rt.	O-EB	3	11	3.7					
18+71.5 Rt.	18+80.5 Rt.	C.L. EB-EB	9	2					2.0	0.3
18+80.5 Rt.	18+83.5 Rt.	I-EB	3	11	3.7					
18+82.5 Rt.	18+92.5 Rt.	O-EB	10	8					8.9	1.5
19+03 Lt.	19+05 Lt.	O-WB	2	5					1.1	0.2
19+03 Lt.	19+05 Lt.	I-WB	2	5					1.1	0.2
19+12 Rt.	19+17 Rt.	C.L. EB-EB	5	2					1.1	0.2

REVISIONS

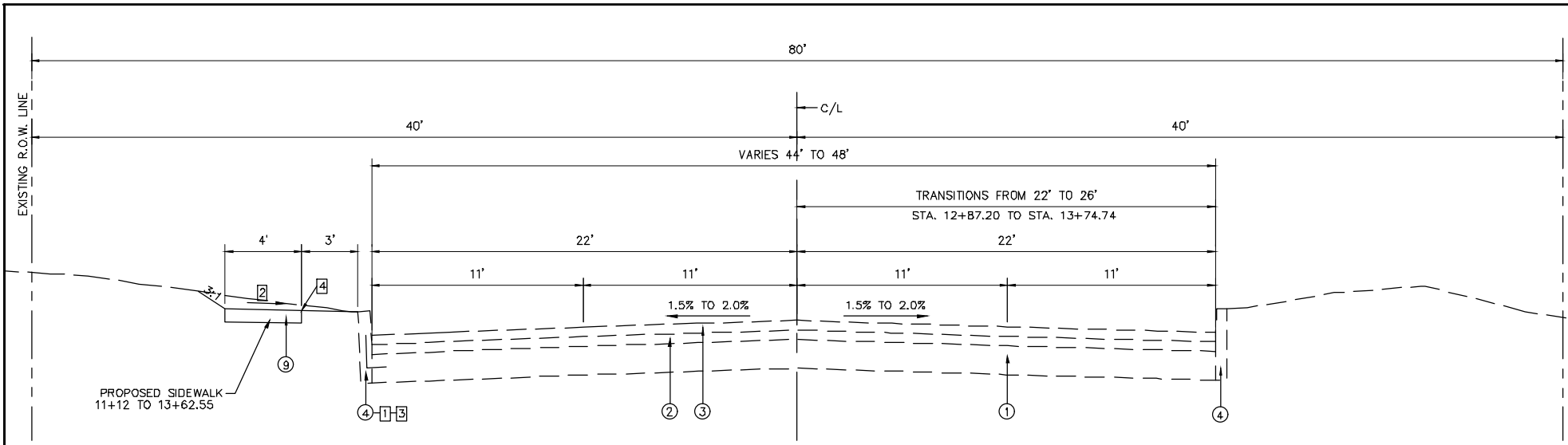
**SMS Sheppard, Morgan & Schwaab, Inc.**  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 215 Main Street, Alton, IL 62002 618/462-9755 Email: ms@smseing.com  
**ENGINEERS** DESIGN FIRM # 184-000992

VILLAGE OF EAST ALTON, ILLINOIS  
 SECTION 14-00050-00-RS  
 BERKSHIRE BOULEVARD  
 SCHEDULES

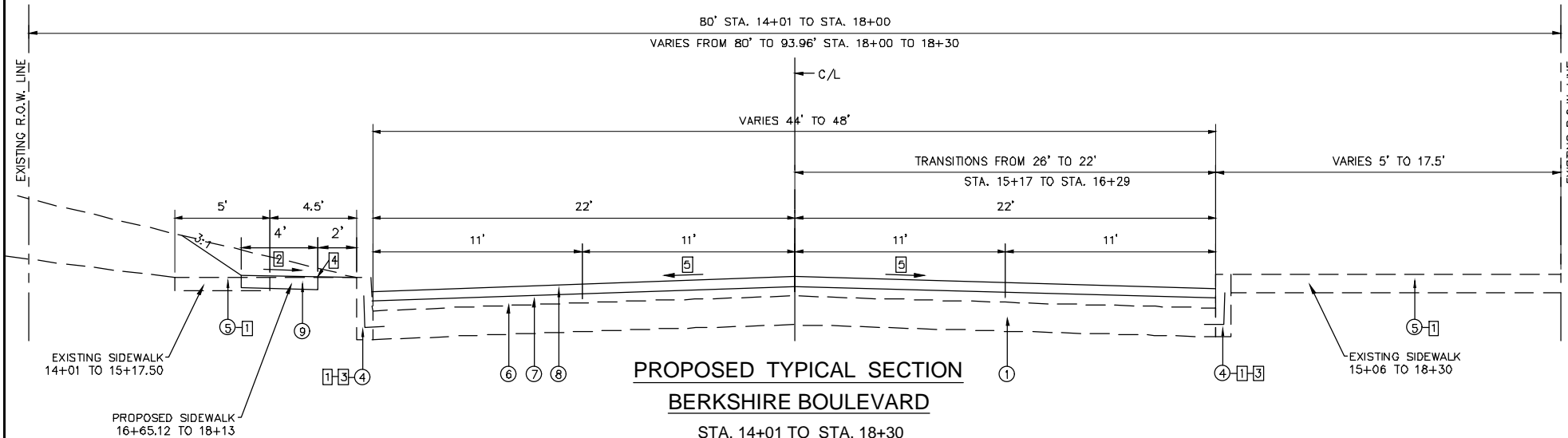
CONTRACT NO. 97671  
 EA BERKSHIRE SCHED.DWG  
 REF. BK. PG.  
 JOB NO. 429080.1  
 DSN. BY: DEG  
 DWN. BY: GDP  
 CHK. BY: DEG  
 DATE: NOV. 2017  
 SCALE: NONE  
 SHEET 4 OF 22



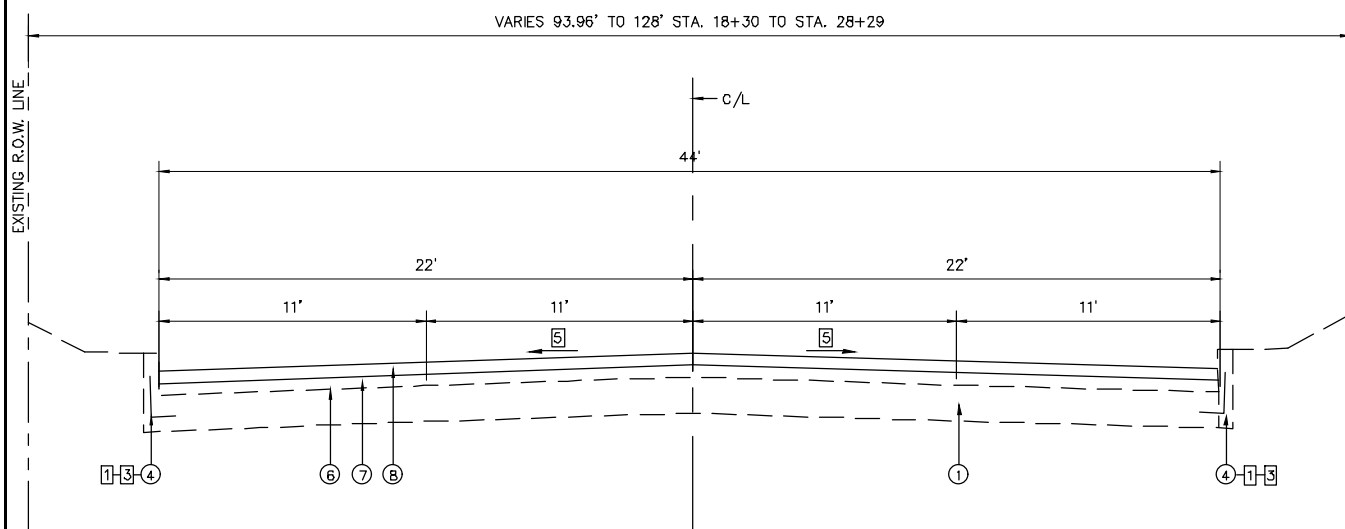




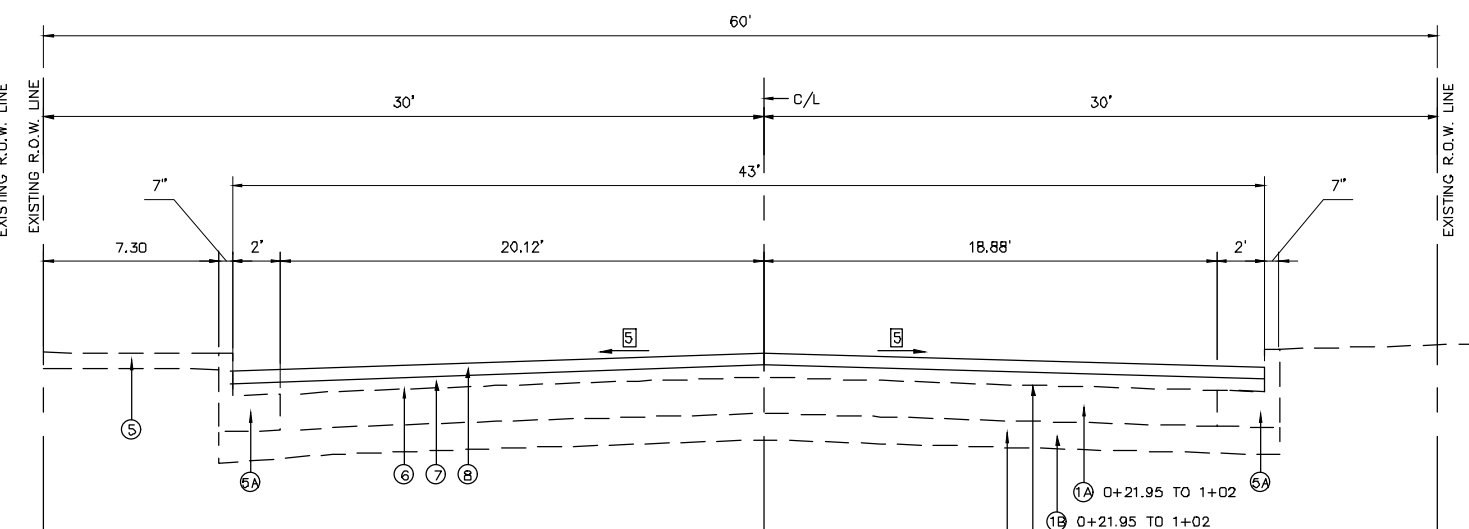
**PROPOSED TYPICAL SECTION  
BERKSHIRE BOULEVARD  
STA. 11+00 TO STA. 14+01**



**PROPOSED TYPICAL SECTION  
BERKSHIRE BOULEVARD  
STA. 14+01 TO STA. 18+30**



**PROPOSED TYPICAL SECTION  
BERKSHIRE BOULEVARD  
STA. 18+30 TO STA. 28+29**



**PROPOSED TYPICAL SECTION  
WOOD RIVER AVENUE  
STA. 0+21.95 TO STA. 1+02**

**TYPICAL SECTION NOTES**

- 1 SEE PLANS FOR LOCATIONS TO BE REMOVED AND REPLACED.
- 2 NEW SIDEWALK CROSS SLOPE PERPENDICULAR TO THE DIRECTION OF TRAVEL SHALL BE 1.00% DESIRED WITH 2.00% ABSOLUTE MAXIMUM. THE ONLY EXCEPTION IS TRANSITION PANELS THAT MEET EXISTING SIDEWALK.
- 3 TIE BARS SHALL BE "L" BARS ROTATED TO PROVIDE 3" OF CLEARANCE. TIE BARS SHALL BE DRILLED AND GROUTED AT 24" CENTERS.
- 4 NEW SIDEWALK TO BE 1" ABOVE CURB UNLESS OTHERWISE SHOWN BY DETAILED ELEVATIONS
- 5 MATCH EXISTING CROSS SLOPE WHICH IS APPROXIMATELY 1.5% TO 2.0%

**PAVING LEGEND**

- 1 EXISTING P.C.C. PAVEMENT, 9"
- 1A EXISTING P.C.C. PAVEMENT, 8"
- 1B EXISTING AGG. BASE, 4"
- 1C OIL & CHIP SURFACE
- 1D EXISTING AGG. BASE, 8"
- 2 EXISTING BINDER COURSE, 1/2" AVG. THICK
- 3 EXISTING HMA SURFACE COURSE 1 1/2"
- 4 EXISTING CONCRETE CURB, TYPE B
- 5 EXISTING P.C.C. SIDEWALK
- 5A EXISTING CONC. CURB AND GUTTER TYPE B-6.24
- 6 PROPOSED POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)
- 7 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) N70, 1 1/2"
- 8 PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
- 9 PROPOSED PCC SIDEWALK, 4"

**MIX DESIGNS**

MIXTURE USE	POLY SURFACE	POLY LEVEL BINDER	INCIDENTAL
AC/PG	SBS PG 76-22	SBS PG 76-22	PG 64-22
MAX. RAP %	*	*	*
DESIGN AIR VOIDS	4% @ NDES = 70	4% @ NDES = 70	4% @ NDES = 70
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5 OR IL-12.5	IL-9.5	----
FRICTION AGG.	MIX D	MIX C	MIX C

\*SEE SPECIAL PROVISIONS

REVISIONS

**SMS** Sheppard, Morgan & Schwaab, Inc.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
215 Market Street, Alton, IL 62002 618/622-3755 E-mail: ms@smsengineers.com  
DESIGN FIRM # 184-000992

EAST ALTON, ILLINOIS  
SECTION 14-00050-00-RS  
BERKSHIRE BOULEVARD  
TYPICAL SECTIONS

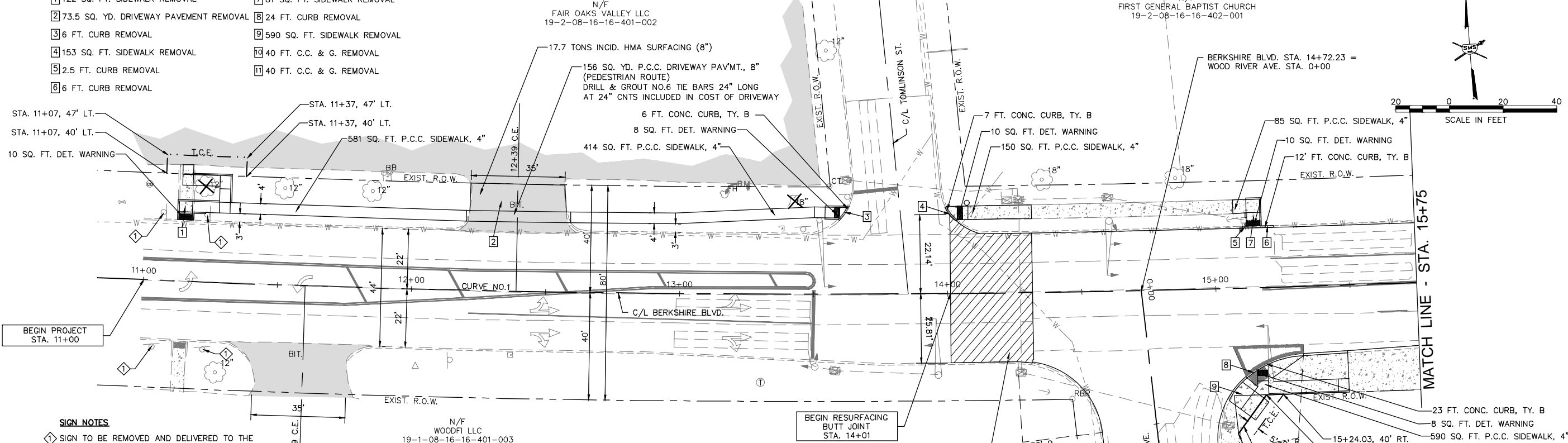
CONTRACT NO. 97671  
EA BERKSHIRE TYP.DWG  
REF. BK. PG.  
JOB NO. 429080.1  
DSN. BY: DEG  
DWN. BY: CDP  
CHK. BY: DEG  
DATE: DECEMBER, 2017

SCALE: 1"=4'  
SHEET 6 OF 22



**CONSTRUCTION NOTES**

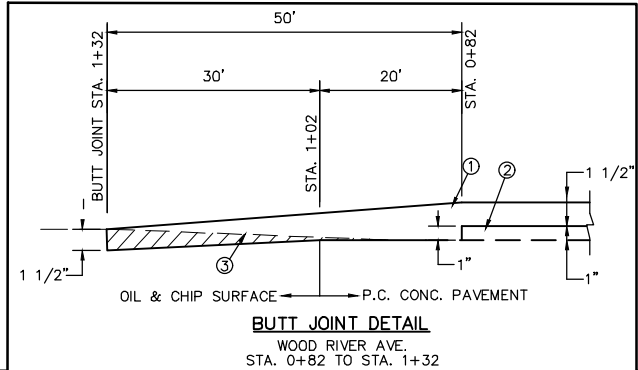
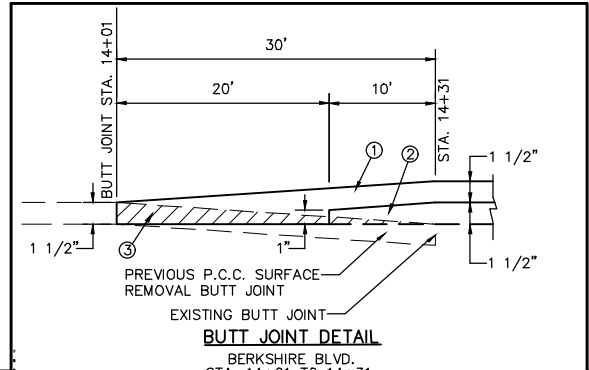
- 1 122 SQ. FT. SIDEWALK REMOVAL
- 2 73.5 SQ. YD. DRIVEWAY PAVEMENT REMOVAL
- 3 6 FT. CURB REMOVAL
- 4 153 SQ. FT. SIDEWALK REMOVAL
- 5 2.5 FT. CURB REMOVAL
- 6 6 FT. CURB REMOVAL
- 7 81 SQ. FT. SIDEWALK REMOVAL
- 8 24 FT. CURB REMOVAL
- 9 590 SQ. FT. SIDEWALK REMOVAL
- 10 40 FT. C.C. & G. REMOVAL
- 11 40 FT. C.C. & G. REMOVAL



**SIGN NOTES**  
 SIGN TO BE REMOVED AND DELIVERED TO THE VILLAGE STREET DEPT. - INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

**CENTERLINE CURVE DATA**

<b>CURVE NO. 1</b>	P.I. STA. = 14+37.79
	Δ = 13°31'57"
	T = 679.80'
	R = 5729.65'
	L = 1353.27'
	E = 10.19'
	P.C. STA. = 7+57.99
	P.T. STA. = 21+11.26
	SUPER ELEV. = NONE

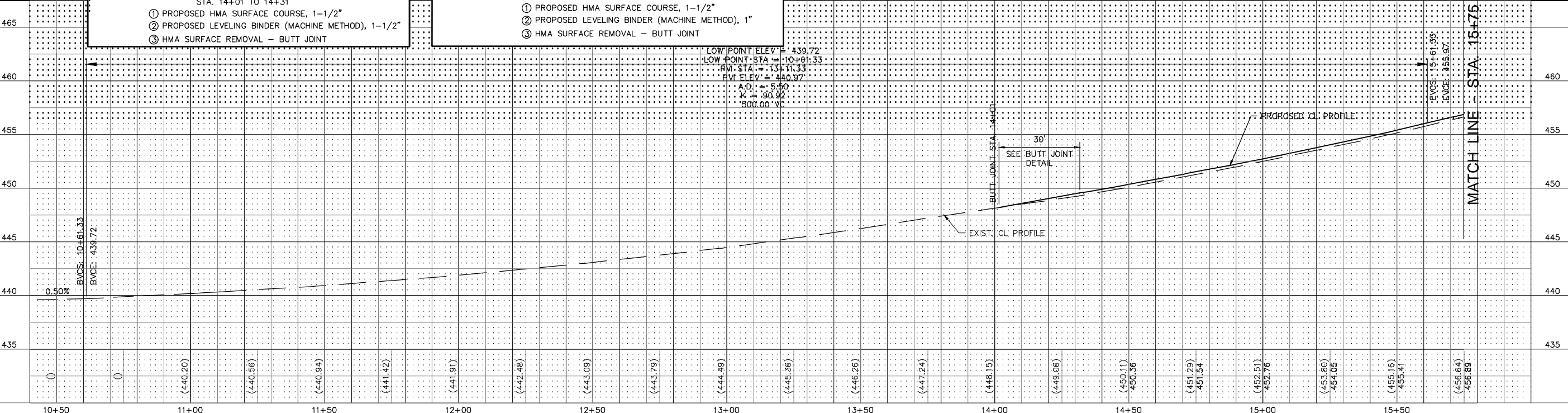


HMA SURFACE EXTENDS TO FACE OF CURB (TYPICAL BOTH SIDES)

NEW GUTTER PAN TO BE EXPOSED AND FOLLOW PROPOSED HMA SURFACE (TYPICAL BOTH SIDES)

40 FT. C.C.&G., TY. B-6.24

190.3 SQ. YD. HMA SURF. REMOVAL - BUTT JOINT



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 DESIGN FIRM # 184-000992

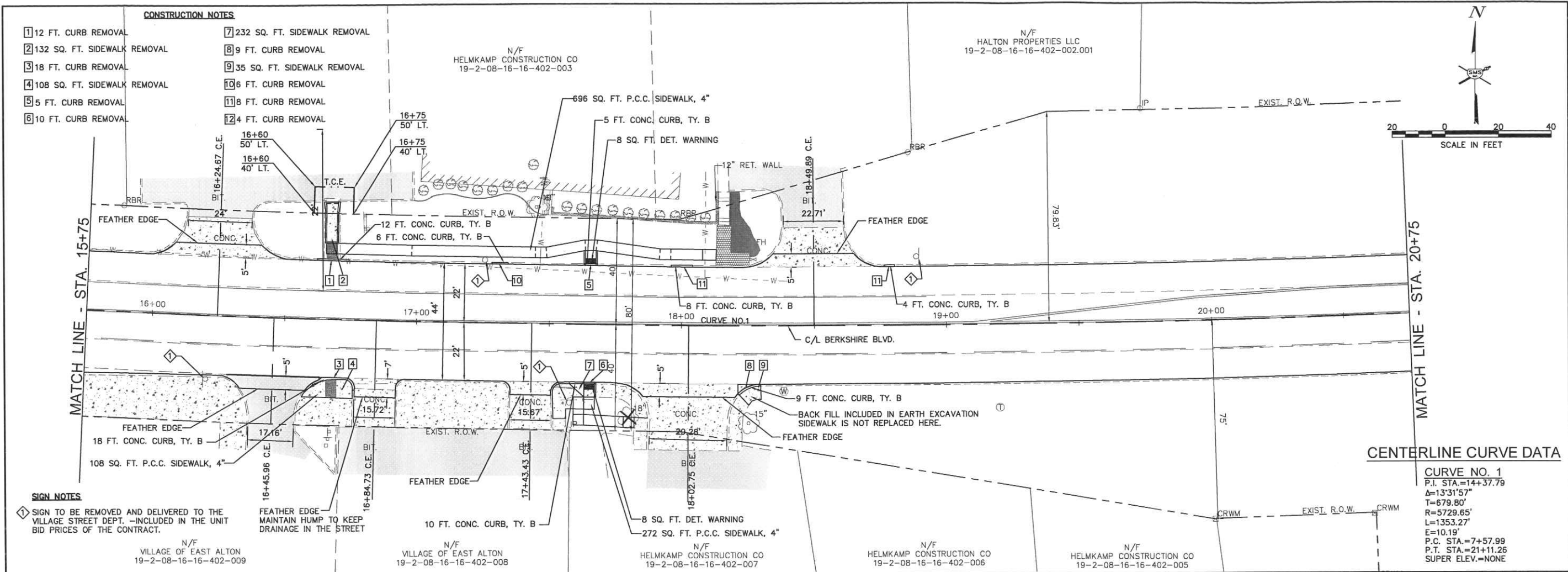
VILLAGE OF EAST ALTON  
 SECTION 14-00050-00-RS  
 BERSHIRE BLVD.  
 PLAN AND PROFILE

CONTRACT NO. 97671  
 EA BIRKSHIRE PP.DWG

REF. BK.	PG.
JOB NO. 429080.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: NOV. 2017	
HORZ: 1" = 20'	
SCALE: VERT: 1" = 5'	

SHEET 7 OF 22

Q:\CIVIL\_3D PROJECTS\E. ALTON (429080.0) BERSHIRE BLVD\Production Drawings\EA BIRKSHIRE PP.dwg, 2/22/2018 4:01:00 PM, cpruit, 1:2



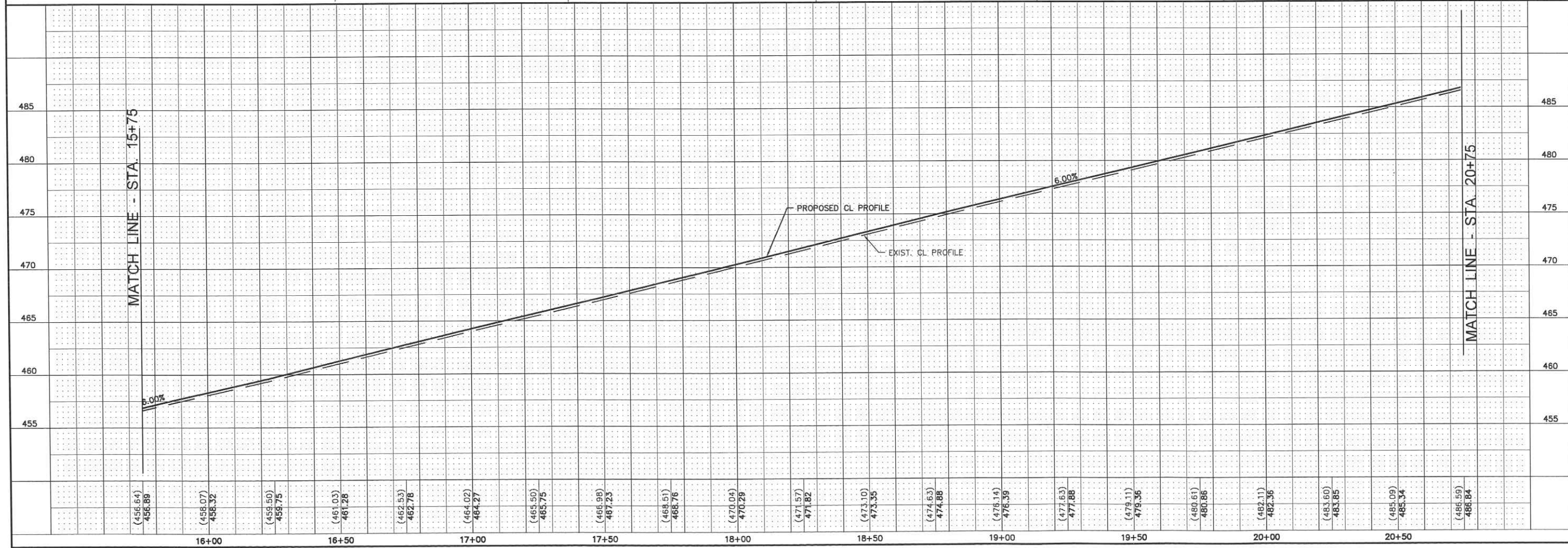
- CONSTRUCTION NOTES**
- 1 12 FT. CURB REMOVAL
  - 2 132 SQ. FT. SIDEWALK REMOVAL
  - 3 18 FT. CURB REMOVAL
  - 4 108 SQ. FT. SIDEWALK REMOVAL
  - 5 5 FT. CURB REMOVAL
  - 6 10 FT. CURB REMOVAL
  - 7 232 SQ. FT. SIDEWALK REMOVAL
  - 8 9 FT. CURB REMOVAL
  - 9 35 SQ. FT. SIDEWALK REMOVAL
  - 10 6 FT. CURB REMOVAL
  - 11 8 FT. CURB REMOVAL
  - 12 4 FT. CURB REMOVAL

**SIGN NOTES**

◆ SIGN TO BE REMOVED AND DELIVERED TO THE VILLAGE STREET DEPT. -INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

**CENTERLINE CURVE DATA**

<b>CURVE NO. 1</b>
P.I. STA.=14+37.79
Δ=133°1'57"
T=679.80'
R=5729.65'
L=1353.27'
E=10.19'
P.C. STA.=7+57.99
P.T. STA.=21+11.26
SUPER ELEV.=NONE



REVISIONS


**SMS Sheppard, Morgan & Schwaab, Inc.**  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 215 Market Street, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com  
**ENGINEERS** DESIGN FIRM # 184-000992

VILLAGE OF EAST ALTON  
 SECTION 14-00050-00-RS  
 BIRKSHIRE BLVD.  
 PLAN AND PROFILE

CONTRACT NO. 97671  
 EA BIRKSHIRE PP.DWG

REF. BK.	PG.
JOB NO. 429080.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: NOV. 2017	
HORZ: 1" = 20'	
SCALE: VERT: 1" = 5'	

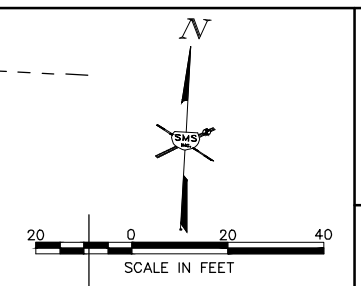
SHEET 8 OF 22



MATCH LINE - STA. 20+75

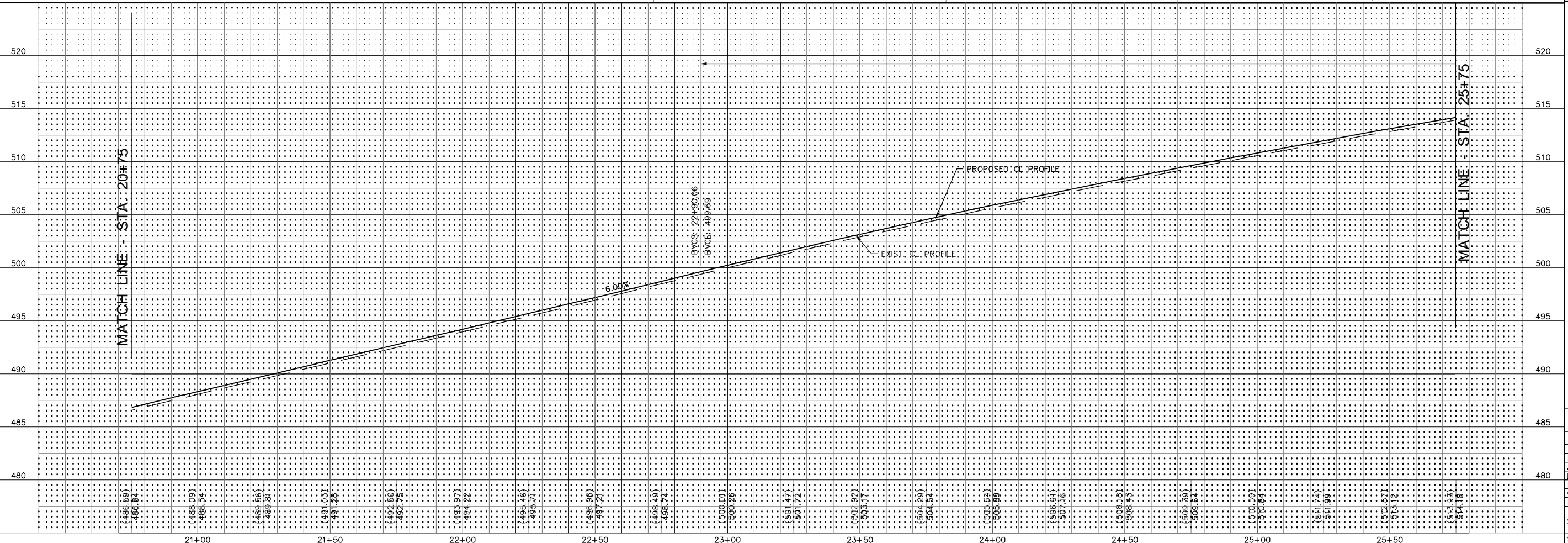
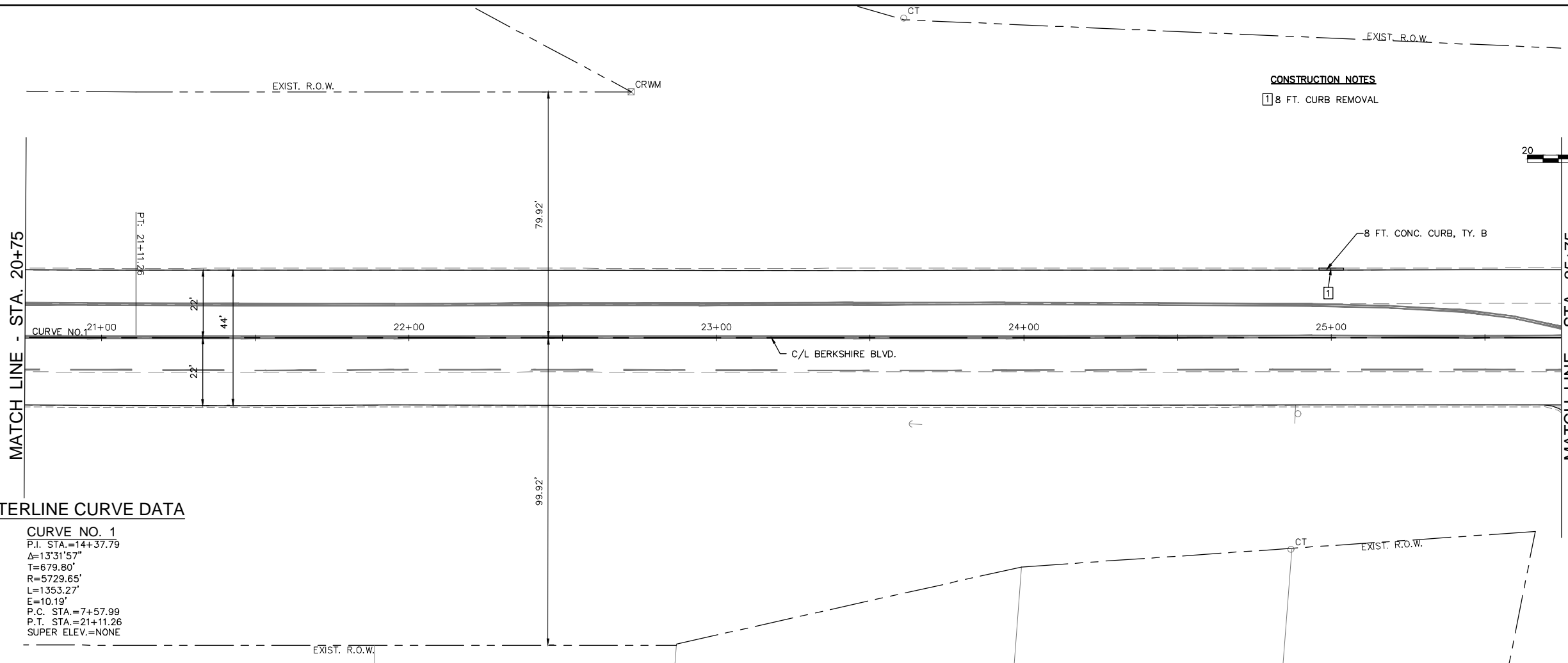
MATCH LINE - STA. 25+75

CONSTRUCTION NOTES  
 [ ] 8 FT. CURB REMOVAL



**CENTERLINE CURVE DATA**

**CURVE NO. 1**  
 P.I. STA.=14+37.79  
 $\Delta=13^{\circ}31'57''$   
 $T=679.80'$   
 $R=5729.65'$   
 $L=1353.27'$   
 $E=10.19'$   
 P.C. STA.=7+57.99  
 P.T. STA.=21+11.26  
 SUPER ELEV.=NONE

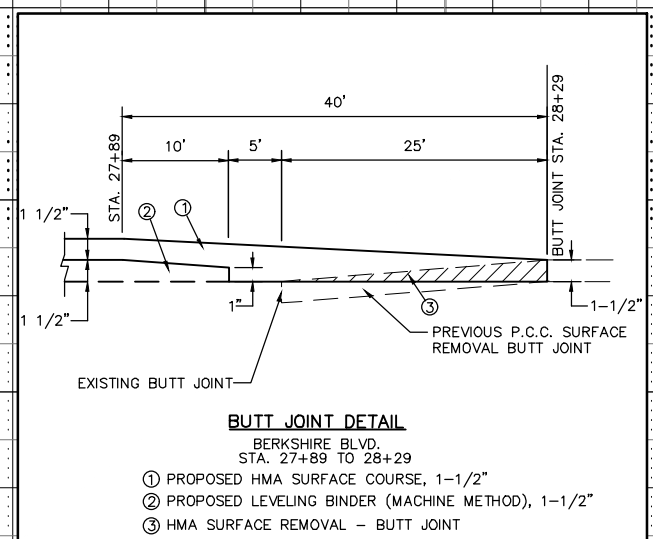
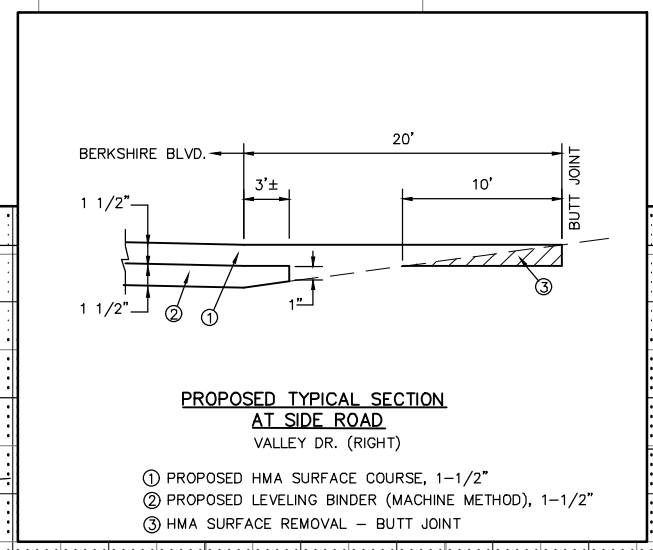
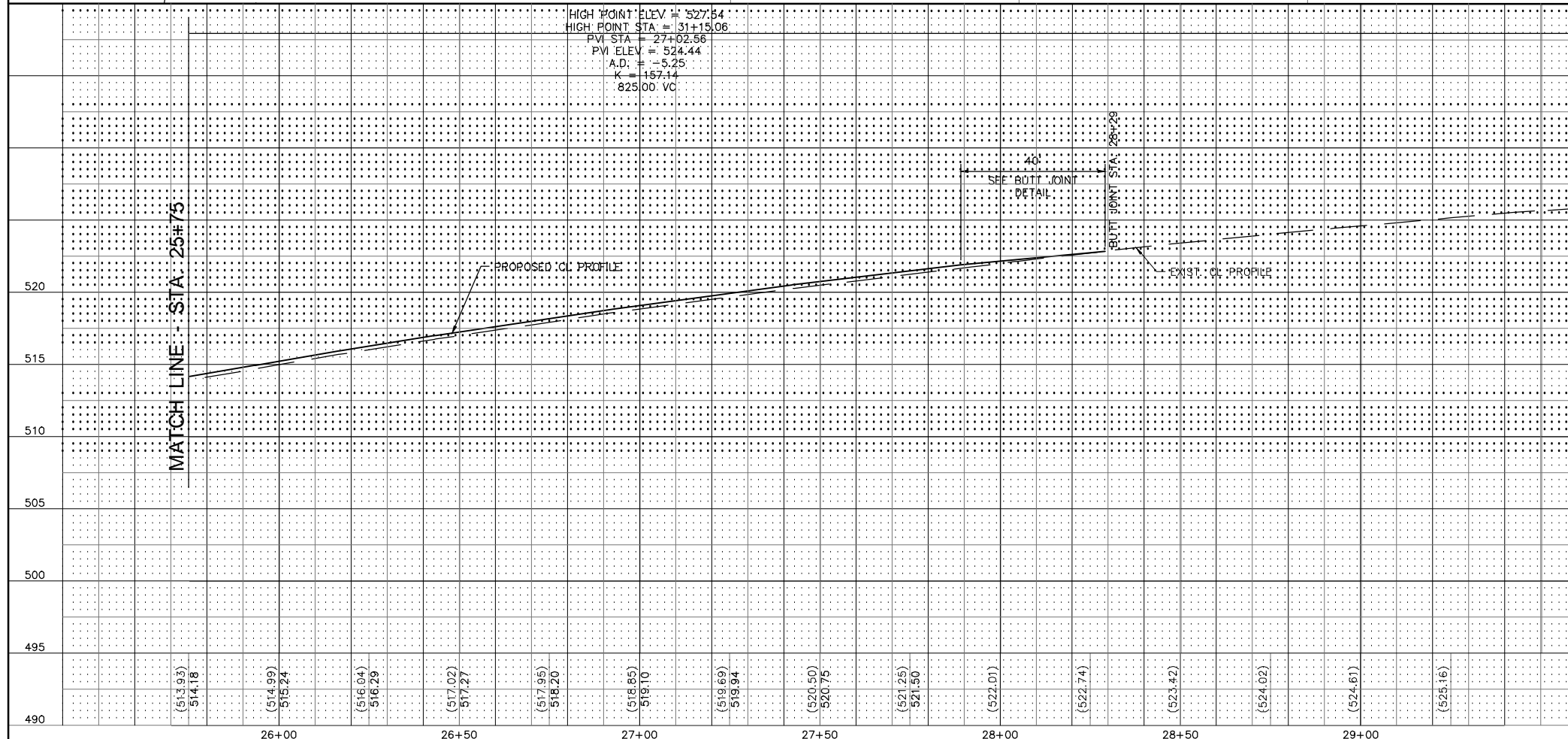
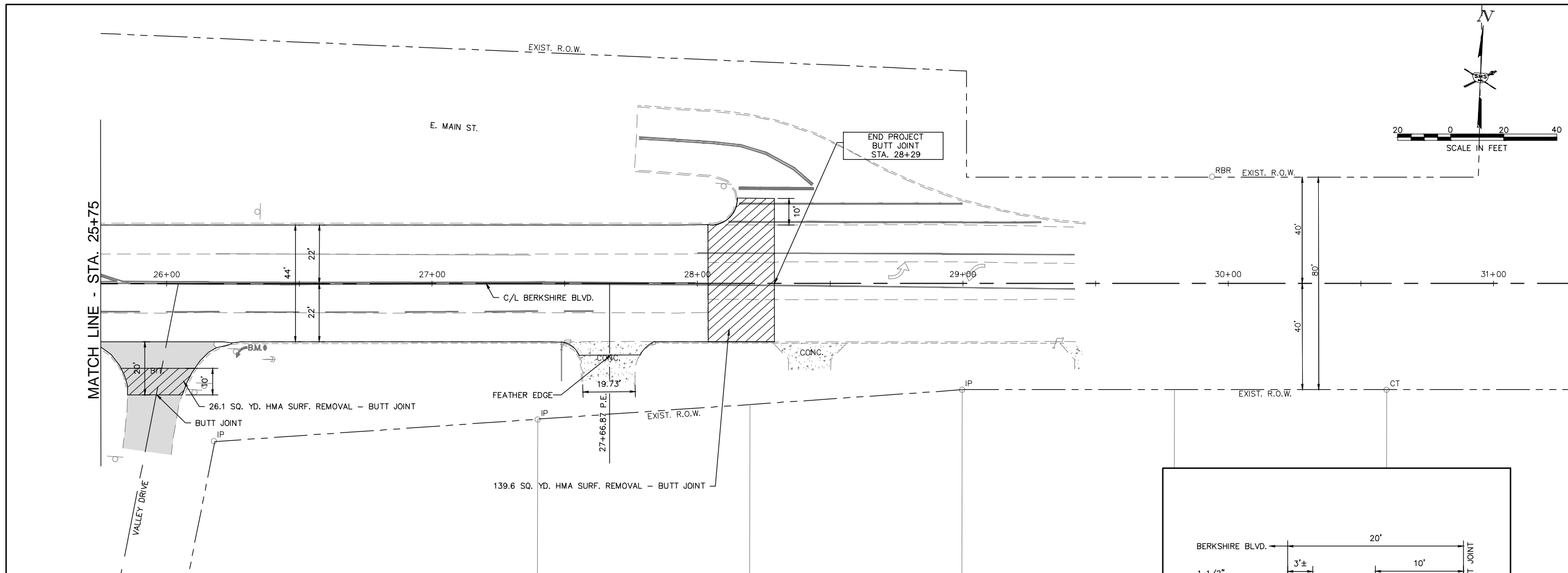


NO.	DESCRIPTION

**SMS** Sheppard, Morgan & Schwab, Inc.  
 ENGINEERS CONSULTING ENGINEERS AND LAND SURVEYORS  
715 Market Street, Alton, IL 62002 618-462-9755 E-mail: mail@smsengineers.com  
 DESIGN FIRM # 184-000992

**VILLAGE OF EAST ALTON**  
**SECTION 14-00050-00-RS**  
**BERKSHIRE BLVD.**  
**PLAN AND PROFILE**

CONTRACT NO.	97671
EA BIRKSHIRE PP.DWG	
REF. BK.	PG.
JOB NO. 429080.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: NOV. 2017	
HORZ: 1" = 20'	
SCALE: VERT: 1" = 5'	
SHEET	9 OF 22



NO.	DESCRIPTION

**SMS ENGINEERS**  
Sheppard, Morgan & Schwab, Inc.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
715 Market Street, Alton, IL 62002 618-462-9755 E-mail: mail@smsengineers.com  
DESIGN FIRM # 184-000992

VILLAGE OF EAST ALTON  
SECTION 14-00050-00-RS  
BERKSHIRE BLVD.  
PLAN AND PROFILE

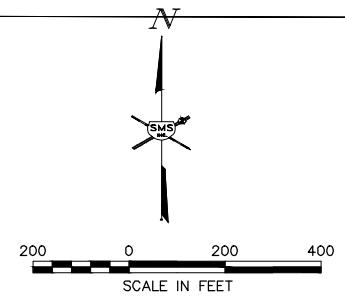
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EA BIRKSHIRE PP.DWG

REF. BK.	PG.
JOB NO. 429080.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: NOV. 2017	

HORZ: 1" = 20'  
SCALE: VERT: 1" = 5'

SHEET 10 OF 22





**GENERAL TRAFFIC CONTROL PLAN**  
1"=200

**TRAFFIC CONTROL NOTES**

1. THE CONTRACTOR SHALL PROVIDE THE TRAFFIC CONTROL SHOWN ON THE GENERAL TRAFFIC CONTROL PLAN AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT. ADDITIONAL TRAFFIC CONTROL SHALL BE PROVIDED AS SPECIFIED BELOW AND IN ACCORDANCE WITH THE SPECIFIED HIGHWAY STANDARDS.
2. AT TIMES WHEN ALL TRAFFIC LANES ARE OPEN, PROVIDE TRAFFIC CONTROL AS NEEDED PER HIGHWAY STANDARD 701006 AND 701011.
3. BERKSHIRE BLVD. AND WOOD RIVER AVENUE SHALL REMAIN OPEN TO THRU TRAFFIC AT ALL TIMES. MULTIPLE TRAFFIC LANES WILL BE ALLOWED TO BE CLOSED AS NEEDED AS DESCRIBED BELOW.
  - A. FOR SPOT LOCATIONS THAT ARE LESS THAN 1 BLOCK LONG AND FOR 1 HOUR OR LESS, PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701301.
  - B. WHEN 2 LANES ARE CLOSED FOR EAST BOUND OR WEST BOUND - PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701611.
  - C. WHEN THE GORE AREA OR LEFT TURN LANES ARE CLOSED PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701502.
  - D. WHEN THE EAST BOUND OUTER LANE IS CLOSED PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701602 SHEET 4 OR 701606.
  - E. WHEN THE WEST BOUND OUTER LANE IS CLOSED PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701606 WITH ADDITIONAL CONES, DRUMS OR BARRICADES ALONG THE CENTERLINE.
  - F. FOR LANE CLOSURES ON WOOD RIVER AVENUE PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701501 OR 701502.
- G. DURING PAVEMENT PATCHING OPERATIONS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONES, DRUMS, OR BARRICADES TO PROTECT EACH PATCH AS DIRECTED BY THE ENGINEER. SPECIAL ATTENTION SHOULD BE GIVEN TO HIGHWAY STANDARD 701602.
4. SIDE STREETS AND ALLEYS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES. TRAFFIC CONTROL FOR SIDE STREETS AND ALLEYS SHALL BE PROVIDED ACCORDING TO THE SPECIFIED HIGHWAY STANDARDS.
5. FOR SIDEWALK REMOVAL AND REPLACEMENT, TRAFFIC CONTROL FOR SIDEWALK CLOSURES SHALL BE PROVIDED PER HIGHWAY STANDARD 701801. SIDEWALK REMOVAL AND REPLACEMENT SHALL BE SEQUENCED AS MUCH AS POSSIBLE TO ALWAYS ALLOW AN ACCESSIBLE ROUTE TO PRIVATE PROPERTY AND BUSINESSES.
6. WHERE A HIGHWAY STANDARD REQUIRES A "ROAD CONSTRUCTION AHEAD" SIGN, THIS REQUIREMENT WILL BE CONSIDERED FULFILLED BY THE SIGNS REQUIRED ON THE GENERAL TRAFFIC CONTROL PLAN.
7. ALL HAZARDS WITHIN WORK ZONES OPEN TO TRAFFIC SHALL BE PROTECTED WITH TYPE I BARRICADES OR DRUMS WITH FLASHING LIGHTS IF LESS THAN 100' IN LENGTH. IF GREATER THAN 100' IN LENGTH, LIGHTS SHALL BE STEADY BURN.
8. ALL CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
9. IF THE CONTRACTOR WISHES TO DEVIATE FROM THIS TRAFFIC CONTROL PLAN, HE SHALL PROVIDE A REVISED TRAFFIC CONTROL PLAN IN WRITING FOR THE REVIEW AND APPROVAL OF THE ENGINEER.

**TRAFFIC CONTROL LEGEND**

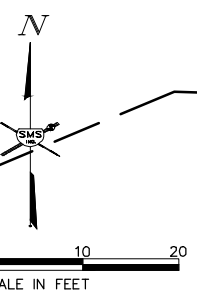
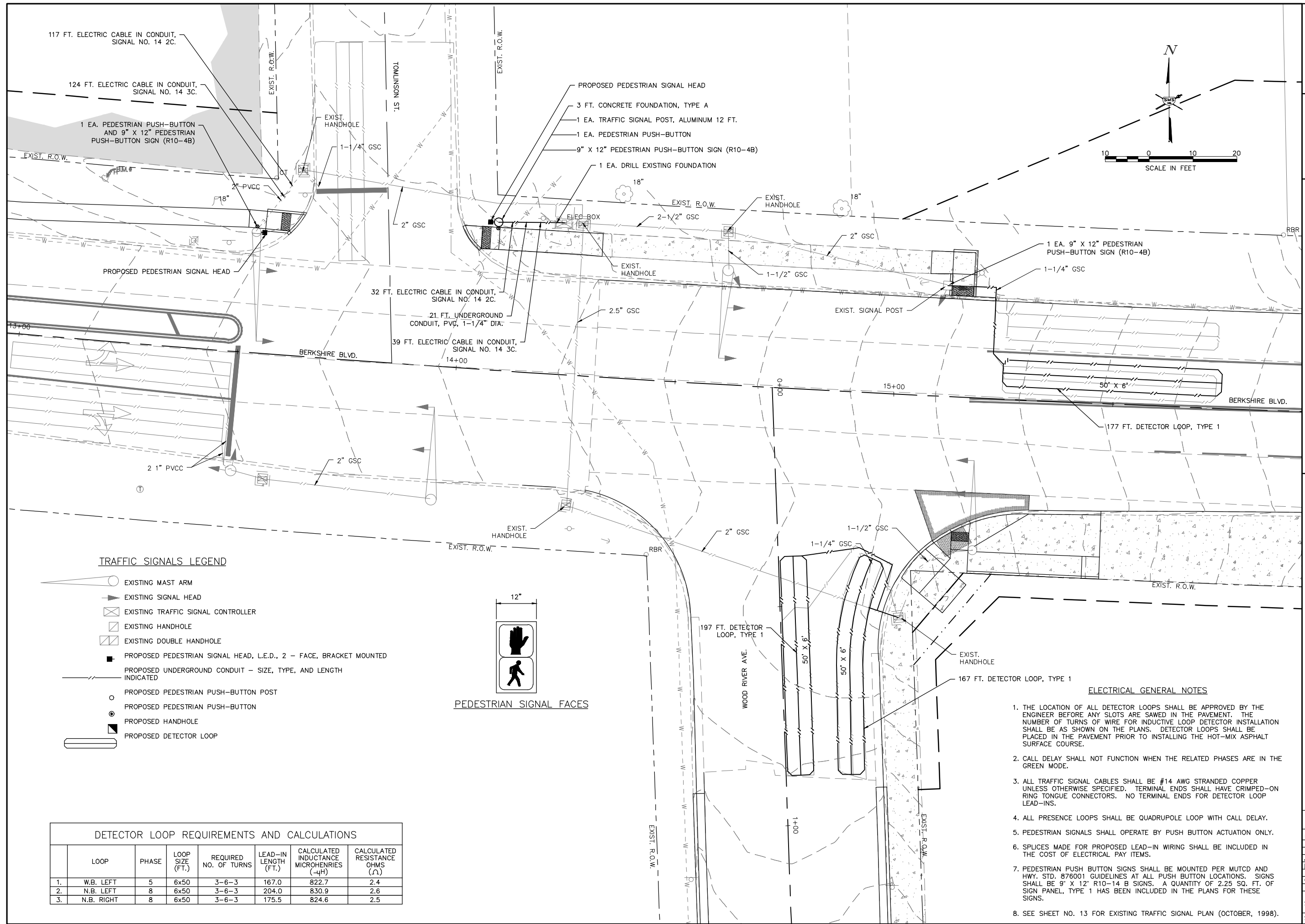
- WORK AREA
- TYPE III BARRICADE WITH REFLECTORIZED STRIPING ON BOTH SIDES WITH FLASHING LIGHTS
- CONE, DRUM OR BARRICADE
- SIGN "ROAD CONSTRUCTION AHEAD" W20-1(0) - 48" x 48" WITH MONODIRECTIONAL FLASHING LIGHT
- SIGN BLACK ARROW ON ORANGE BACKGROUND 24" x 18"
- SIGN BLACK ARROW ON ORANGE BACKGROUND 24" x 18"

VILLAGE OF EAST ALTON, ILLINOIS  
SECTION 14-00050-00-RS  
BERKSHIRE BOULEVARD  
TRAFFIC CONTROL PLAN

**SMS** Sheppard, Morgan & Schwab, Inc.  
ENGINEERS  
CONSULTING ENGINEERS AND LAND SURVEYORS  
DESIGN FIRM # 184-000992  
715 Market Street, Alton, IL 62002 618-462-9755 E-mail: mail@smsengineers.com

CONTRACT NO. 97671	
REF. BK.	PG.
JOB NO. 429080.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: NOV. 2017	
SCALE: 1"=200'	
SHEET 11	OF 22

Q:\CIVIL\_3D PROJECTS\E. ALTON (429080.0) BERSHIRE BLVD\Production Drawings\EA BERSHIRE TRAF SIGNAL.dwg, 2/22/2018 8:48:13 AM, cpruit, 1:2



**TRAFFIC SIGNALS LEGEND**

- EXISTING MAST ARM
- EXISTING SIGNAL HEAD
- EXISTING TRAFFIC SIGNAL CONTROLLER
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- PROPOSED PEDESTRIAN SIGNAL HEAD, L.E.D., 2 - FACE, BRACKET MOUNTED
- PROPOSED UNDERGROUND CONDUIT - SIZE, TYPE, AND LENGTH INDICATED
- PROPOSED PEDESTRIAN PUSH-BUTTON POST
- PROPOSED PEDESTRIAN PUSH-BUTTON
- PROPOSED HANDHOLE
- PROPOSED DETECTOR LOOP



PEDESTRIAN SIGNAL FACES

**DETECTOR LOOP REQUIREMENTS AND CALCULATIONS**

LOOP	PHASE	LOOP SIZE (FT.)	REQUIRED NO. OF TURNS	LEAD-IN LENGTH (FT.)	CALCULATED INDUCTANCE MICROHENRIES (-μH)	CALCULATED RESISTANCE OHMS (Ω)
1.	W.B. LEFT	6x50	3-6-3	167.0	822.7	2.4
2.	N.B. LEFT	6x50	3-6-3	204.0	830.9	2.6
3.	N.B. RIGHT	6x50	3-6-3	175.5	824.6	2.5

**ELECTRICAL GENERAL NOTES**

1. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWS IN THE PAVEMENT. THE NUMBER OF TURNS OF WIRE FOR INDUCTIVE LOOP DETECTOR INSTALLATION SHALL BE AS SHOWN ON THE PLANS. DETECTOR LOOPS SHALL BE PLACED IN THE PAVEMENT PRIOR TO INSTALLING THE HOT-MIX ASPHALT SURFACE COURSE.
2. CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
3. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS. NO TERMINAL ENDS FOR DETECTOR LOOP LEAD-INS.
4. ALL PRESENCE LOOPS SHALL BE QUADRUPOLE LOOP WITH CALL DELAY.
5. PEDESTRIAN SIGNALS SHALL OPERATE BY PUSH BUTTON ACTUATION ONLY.
6. SPLICES MADE FOR PROPOSED LEAD-IN WIRING SHALL BE INCLUDED IN THE COST OF ELECTRICAL PAY ITEMS.
7. PEDESTRIAN PUSH BUTTON SIGNALS SHALL BE MOUNTED PER MUTCD AND HWY. STD. 878001 GUIDELINES AT ALL PUSH BUTTON LOCATIONS. SIGNS SHALL BE 9" X 12" R10-14 B SIGNS. A QUANTITY OF 2.25 SQ. FT. OF SIGN PANEL, TYPE 1 HAS BEEN INCLUDED IN THE PLANS FOR THESE SIGNS.
8. SEE SHEET NO. 13 FOR EXISTING TRAFFIC SIGNAL PLAN (OCTOBER, 1998).

REVISIONS

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 DESIGN FIRM # 184-000992

VILLAGE OF EAST ALTON  
 SECTION 14-00050-00-RS  
 BERSHIRE BLVD.  
 SIGNAL PLANS

CONTRACT NO. 97671

EA BIRKSHIRE TRAF SIGNAL.DWG

REF. BK.	PG.
JOB NO. 429080.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: NOV. 2017	

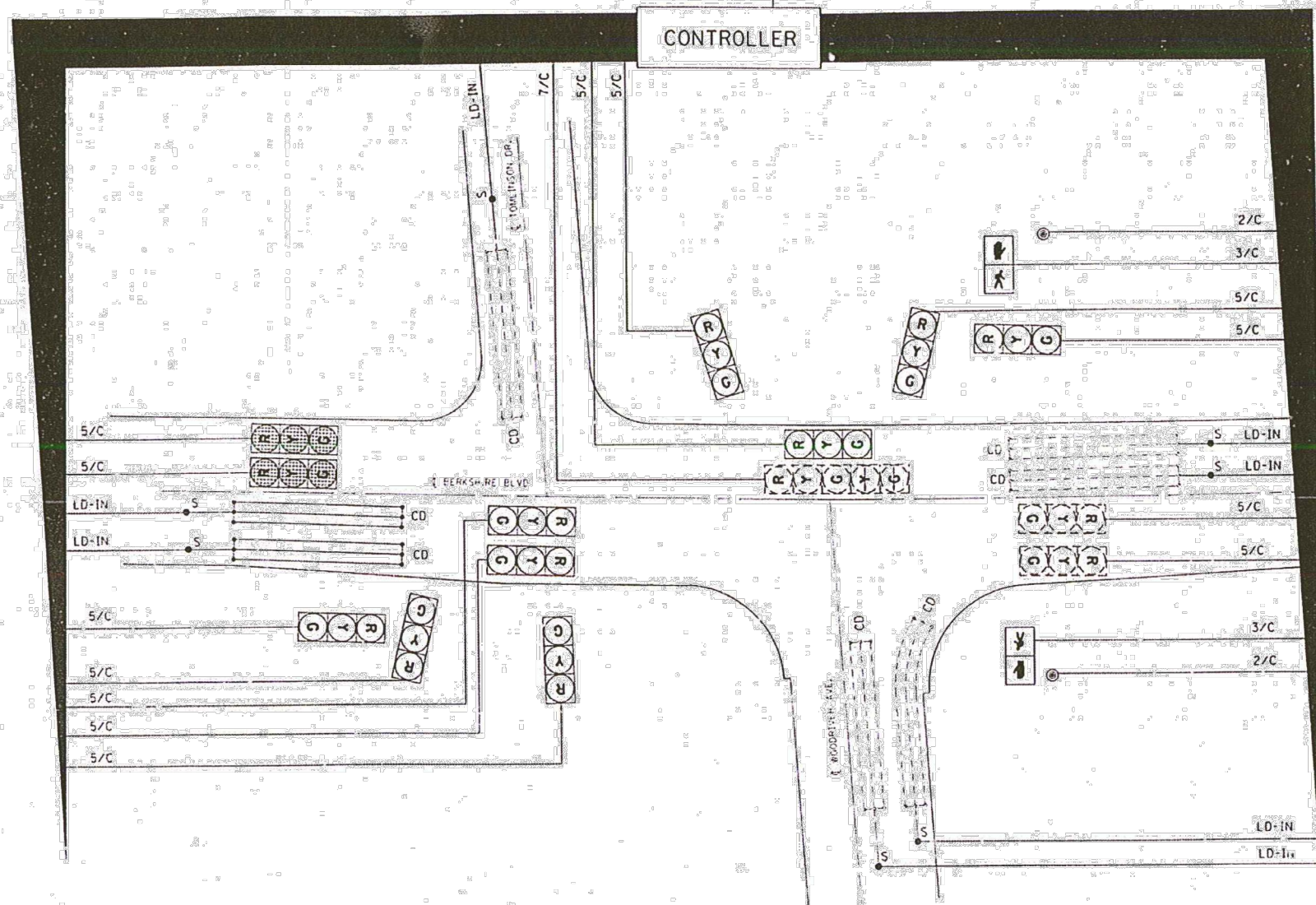
SCALE: 1" = 10'

SHEET 12 OF 22



FAU ROUTE	SECTION	COUNTY	TWP	RANGE
8967	50 TS-1	MADISON	6	5
STA.	TO STA.			
EXISTING CONDITIONS:				

DATE	BY



- CABLE DIAGRAM LEGEND**
- ELECTRIC CABLE IN CONDUIT
  - CABLE SPLICE (SEE GENERAL NOTES)
  - INDICATES NUMBER OF CONDUCTORS IN CABLE
  - ELECTRIC CABLE LEAD-IN 1 PAIR
  - CALL DELAY (SEE GENERAL NOTES)
  - EXISTING SERVICE INSTALLATION
  - INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)

ALL DIMENSIONS ARE IN mm UNLESS DESIGNATED OTHERWISE

REVISIONS	
NAME	DATE

NOT TO SCALE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**CABLE DIAGRAM**

FAU ROUTE 8967  
SECTION 50 TS-1  
MADISON COUNTY

DRAWN BY:

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VILLAGE OF EAST ALTON  
SECTION 14-00050-00-RS  
BERKSHIRE BLVD.  
SIGNAL PLANS

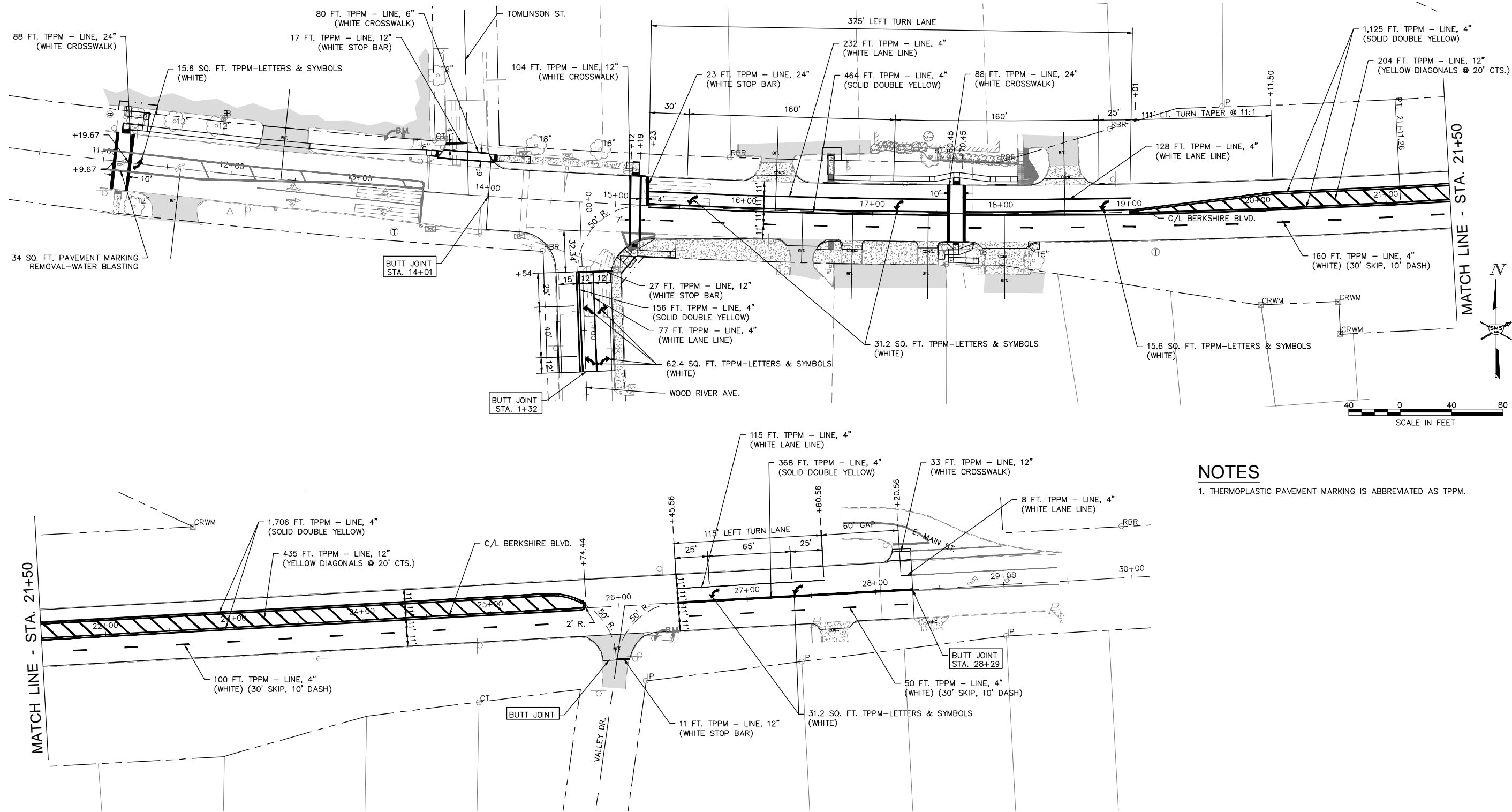
FOR INFORMATION ONLY

CONTRACT NO. 97671

EA BERKSHIRE TRAF SIGNAL.DWG

REF. BK.	PG.
JOB NO. 429080.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: NOV. 2017	

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**NOTES**

1. THERMOPLASTIC PAVEMENT MARKING IS ABBREVIATED AS TPPM.

NO.	DESCRIPTION

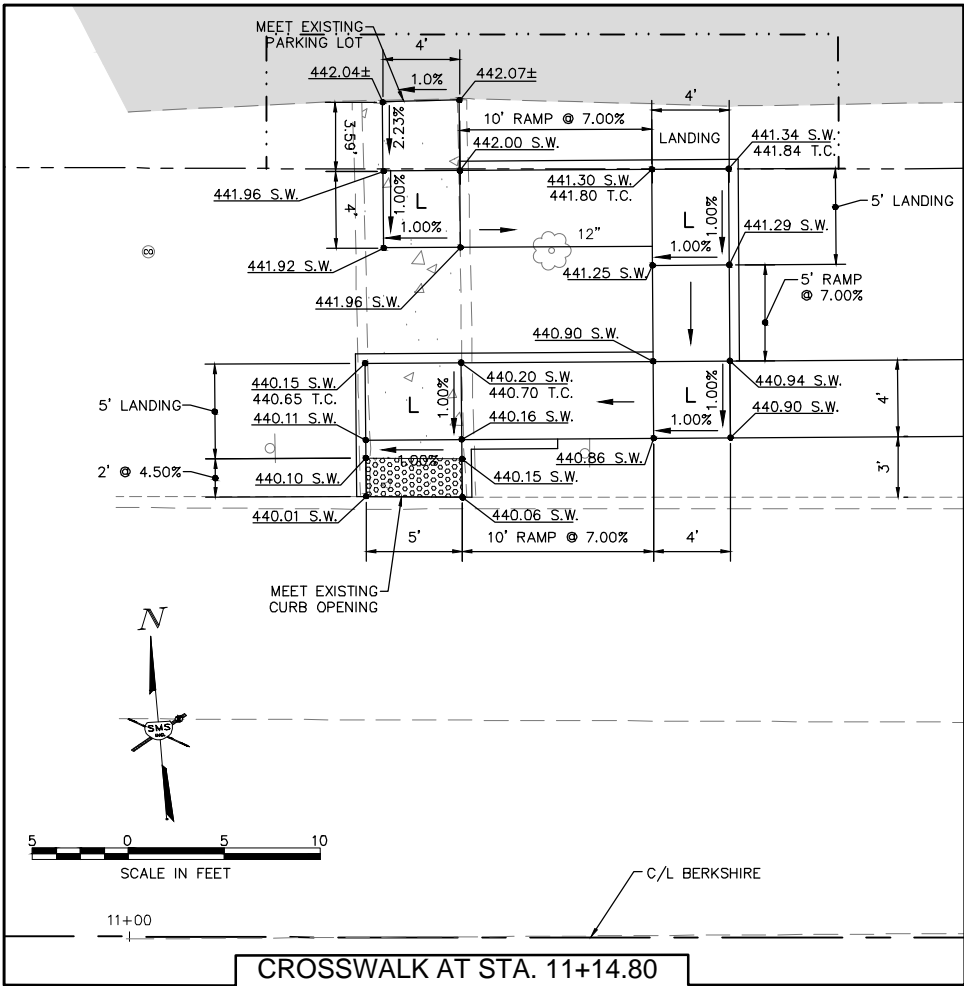
**SMS** Sheppard, Morgan & Schwab, Inc.  
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VILLAGE OF EAST ALTON, ILLINOIS  
 SECTION 14-00050-00-RS  
 BERSHIRE BOULEVARD  
 PAVEMENT MARKING PLAN

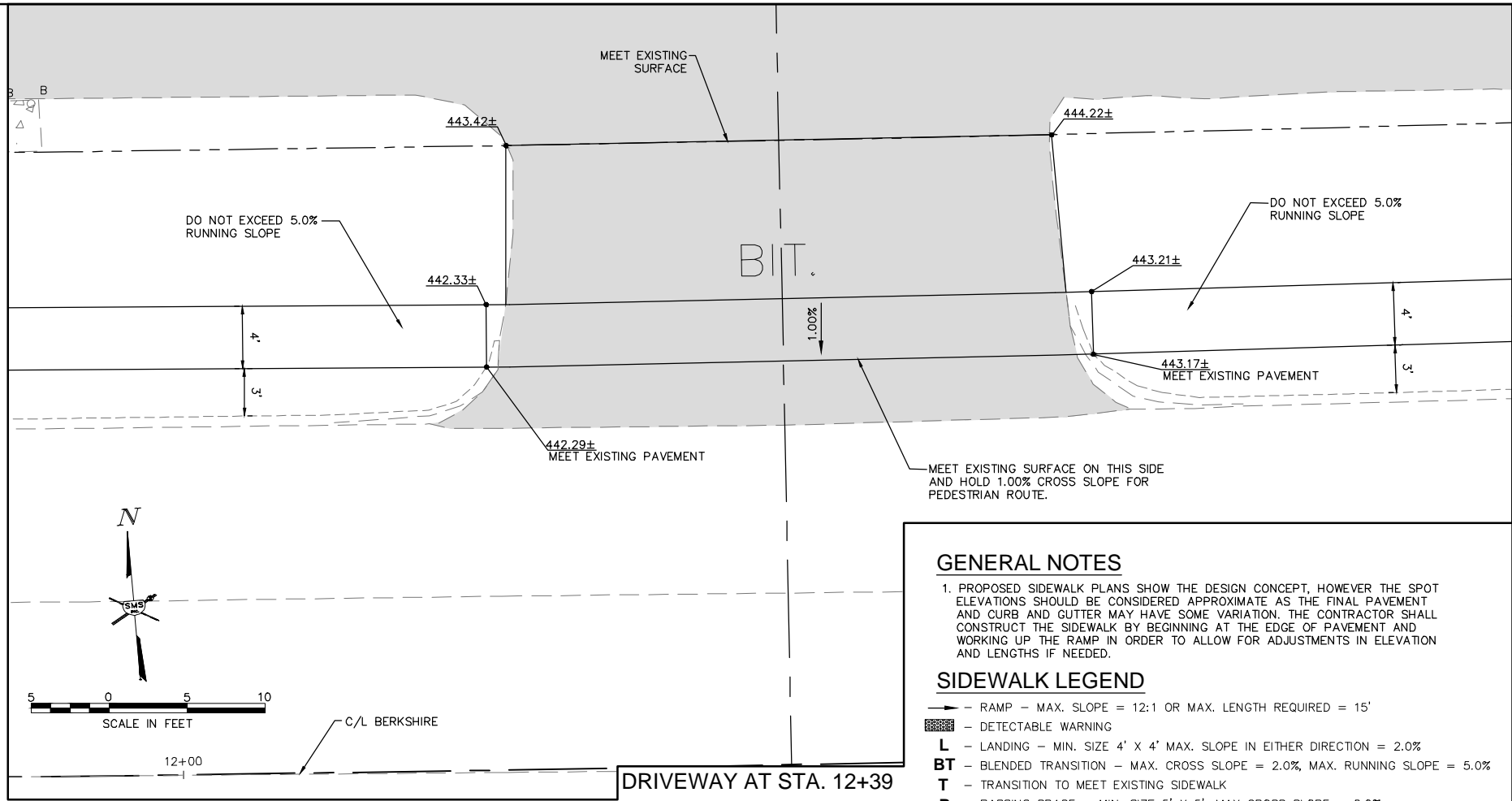
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CHK. BY: DEG	
DATE: NOV. 2017	
SCALE: 1"=40'	
SHEET 14 OF 22	



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CROSSWALK AT STA. 11+14.80



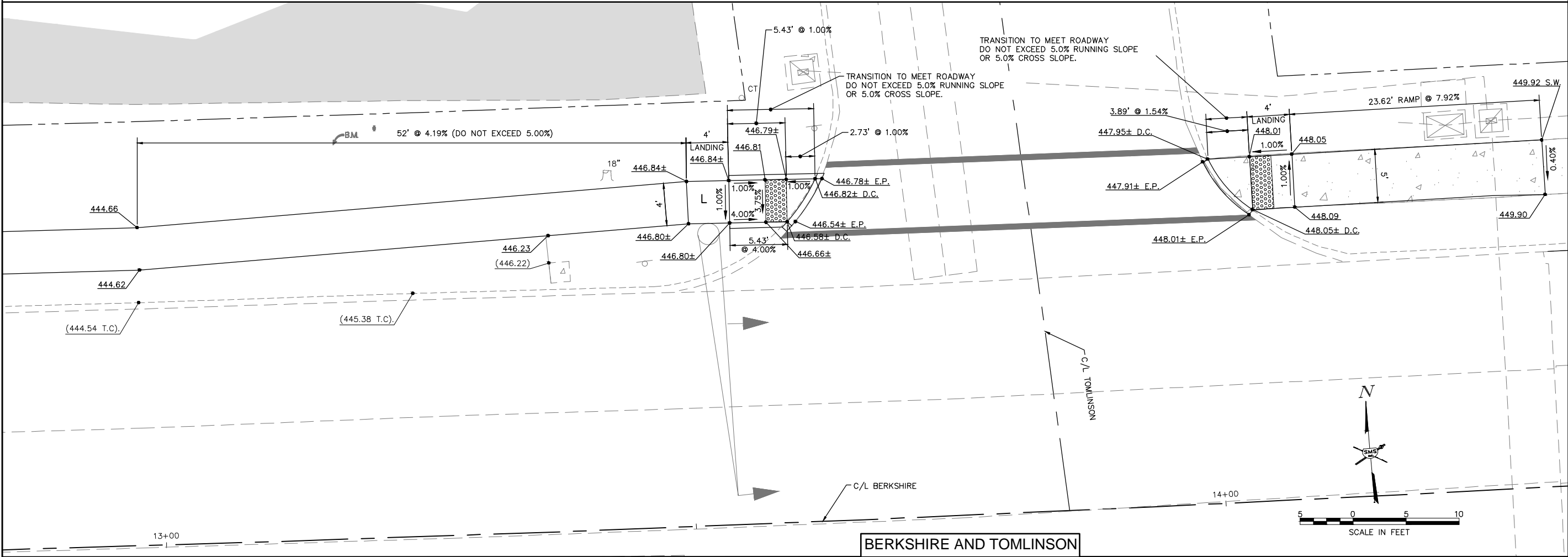
DRIVEWAY AT STA. 12+39

**GENERAL NOTES**

1. PROPOSED SIDEWALK PLANS SHOW THE DESIGN CONCEPT, HOWEVER THE SPOT ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE AS THE FINAL PAVEMENT AND CURB AND GUTTER MAY HAVE SOME VARIATION. THE CONTRACTOR SHALL CONSTRUCT THE SIDEWALK BY BEGINNING AT THE EDGE OF PAVEMENT AND WORKING UP THE RAMP IN ORDER TO ALLOW FOR ADJUSTMENTS IN ELEVATION AND LENGTHS IF NEEDED.

**SIDEWALK LEGEND**

- RAMP - MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- ▨ - DETECTABLE WARNING
- L - LANDING - MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- BT - BLENDED TRANSITION - MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
- T - TRANSITION TO MEET EXISTING SIDEWALK
- P - PASSING SPACE - MIN. SIZE 5' X 5', MAX CROSS SLOPE = 2.0%



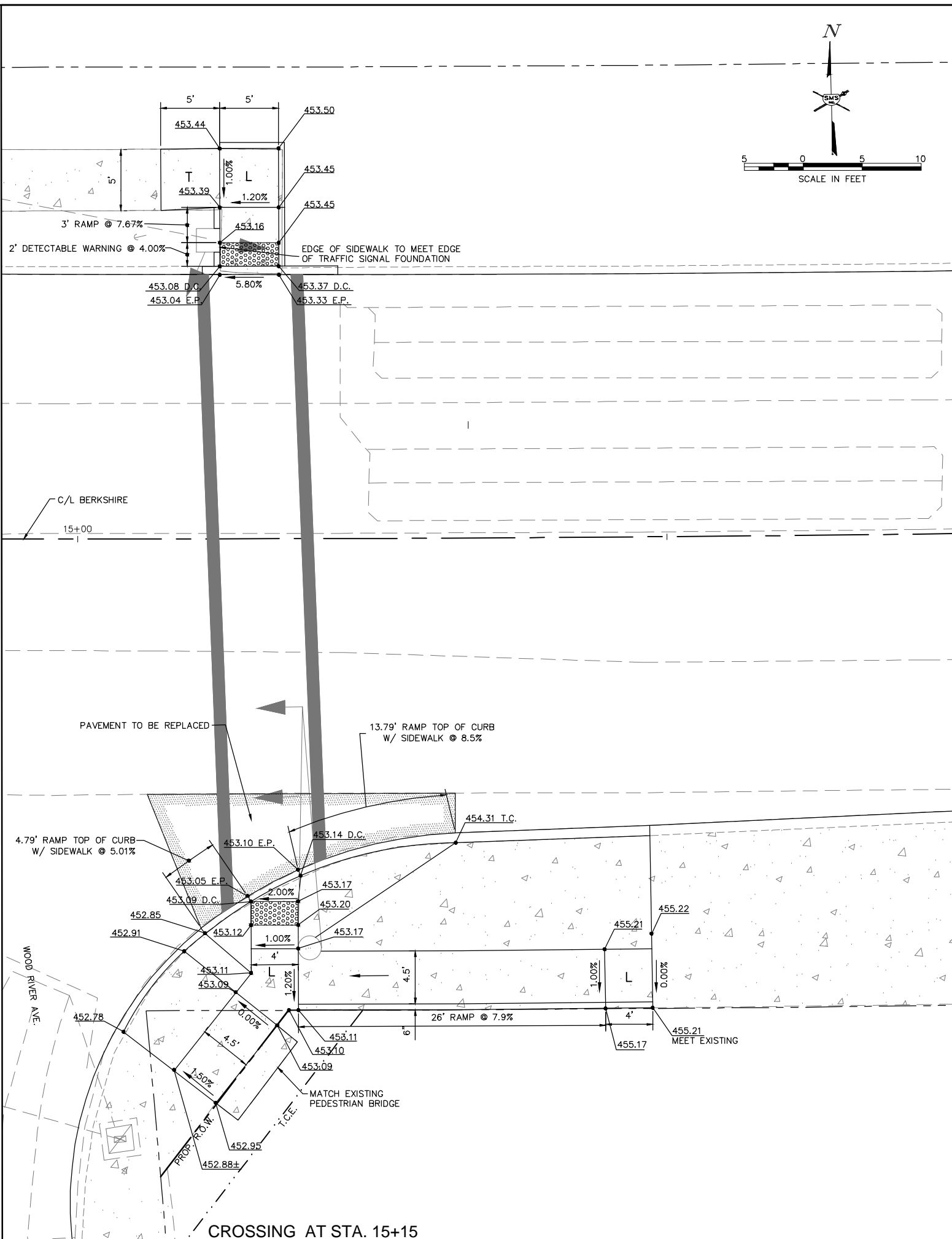
BERSHIRE AND TOMLINSON

NO.	DESCRIPTION

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VILLAGE OF EAST ALTON  
 SECTION 14-00050-00-RS  
 BERSHIRE BLVD.  
 CONSTRUCTION DETAILS

CONTRACT NO. 97671  
 EA BIRK DRWY DETAIL.DWG  
 REF. BK. PG.  
 JOB NO. 429080.1  
 DSN. BY: DEG  
 DWN. BY: CDP  
 CHK. BY: DEG  
 DATE: NOV. 2017  
 SCALE: VERT. 1" = 5'  
 SHEET 15 OF 22



**GENERAL NOTES**

1. PROPOSED SIDEWALK PLANS SHOW THE DESIGN CONCEPT, HOWEVER THE SPOT ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE AS THE FINAL PAVEMENT AND CURB AND GUTTER MAY HAVE SOME VARIATION. THE CONTRACTOR SHALL CONSTRUCT THE SIDEWALK BY BEGINNING AT THE EDGE OF PAVEMENT AND WORKING UP THE RAMP IN ORDER TO ALLOW FOR ADJUSTMENTS IN ELEVATION AND LENGTHS IF NEEDED.

**SIDEWALK LEGEND**

- RAMP - MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- ▨ DETECTABLE WARNING
- L - LANDING - MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- BT - BLENDED TRANSITION - MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
- T - TRANSITION TO MEET EXISTING SIDEWALK
- P - PASSING SPACE - MIN. SIZE 5' X 5', MAX CROSS SLOPE = 2.0%

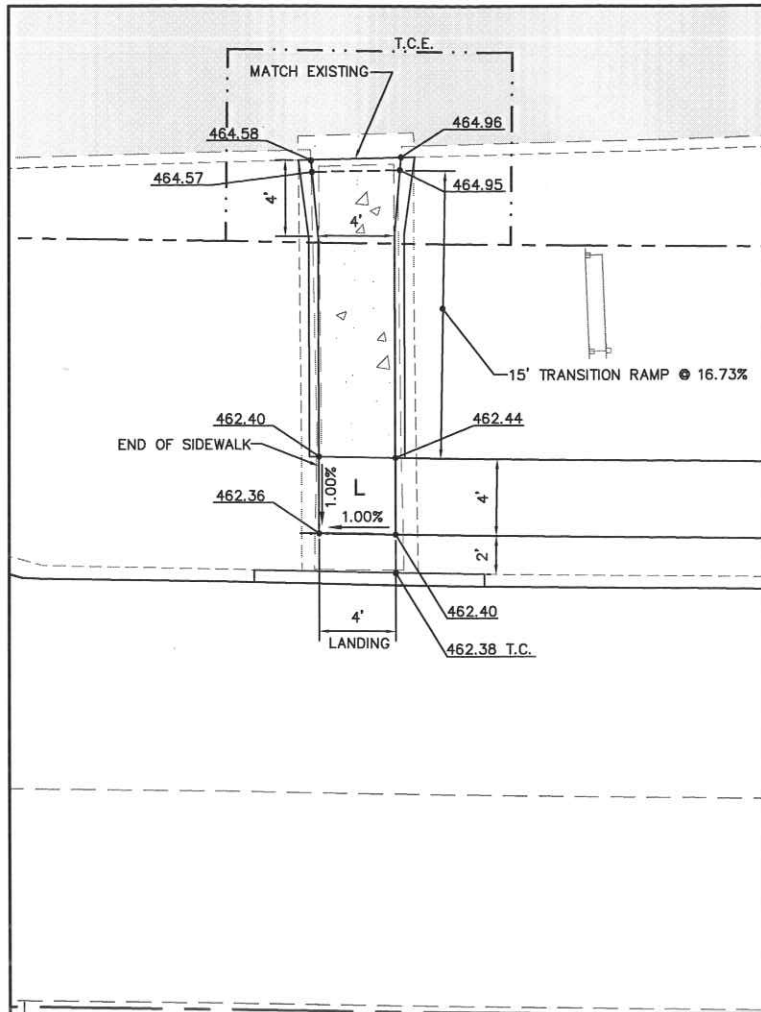
NO.	DESCRIPTION

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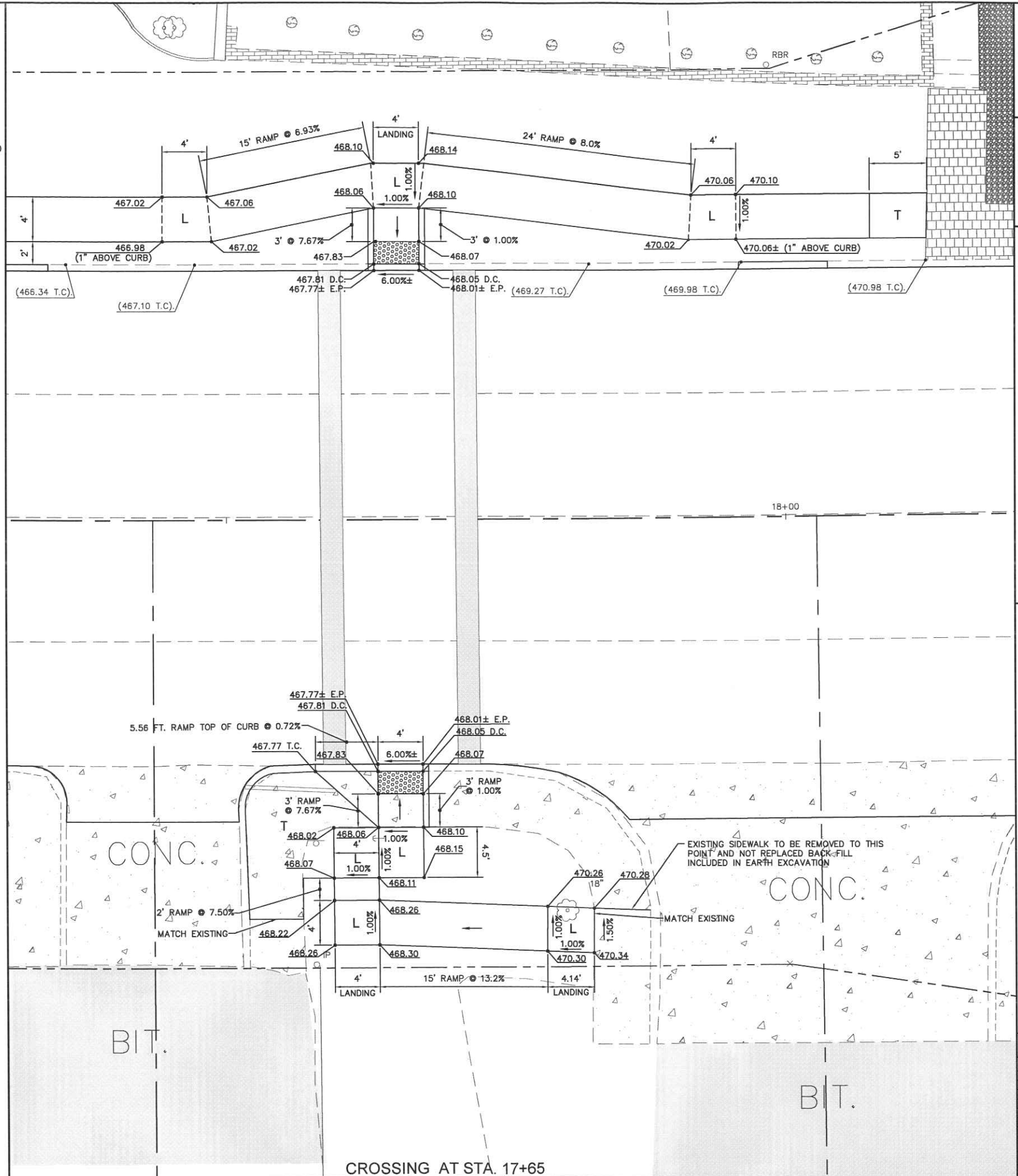
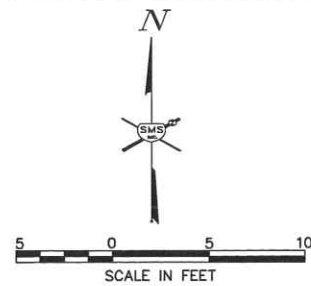
VILLAGE OF EAST ALTON  
 SECTION 14-00050-00-RS  
 BERSHIRE BLVD.  
 CONSTRUCTION DETAILS

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REF. BK.	PG.
JOB NO. 429080.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: NOV. 2017	
SCALE: VERT: 1" = 5'	
SHEET 16 OF 22	

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STA. 16+67



CROSSING AT STA. 17+65

**GENERAL NOTES**

1. PROPOSED SIDEWALK PLANS SHOW THE DESIGN CONCEPT, HOWEVER THE SPOT ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE AS THE FINAL PAVEMENT AND CURB AND GUTTER MAY HAVE SOME VARIATION. THE CONTRACTOR SHALL CONSTRUCT THE SIDEWALK BY BEGINNING AT THE EDGE OF PAVEMENT AND WORKING UP THE RAMP IN ORDER TO ALLOW FOR ADJUSTMENTS IN ELEVATION AND LENGTHS IF NEEDED.

**SIDEWALK LEGEND**

- RAMP — MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- ▨ — DETECTABLE WARNING
- L — LANDING — MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- BT — BLENDED TRANSITION — MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
- T — TRANSITION TO MEET EXISTING SIDEWALK
- P — PASSING SPACE — MIN. SIZE 5' X 5', MAX CROSS SLOPE = 2.0%

REVISIONS

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 215 Market Street, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com  
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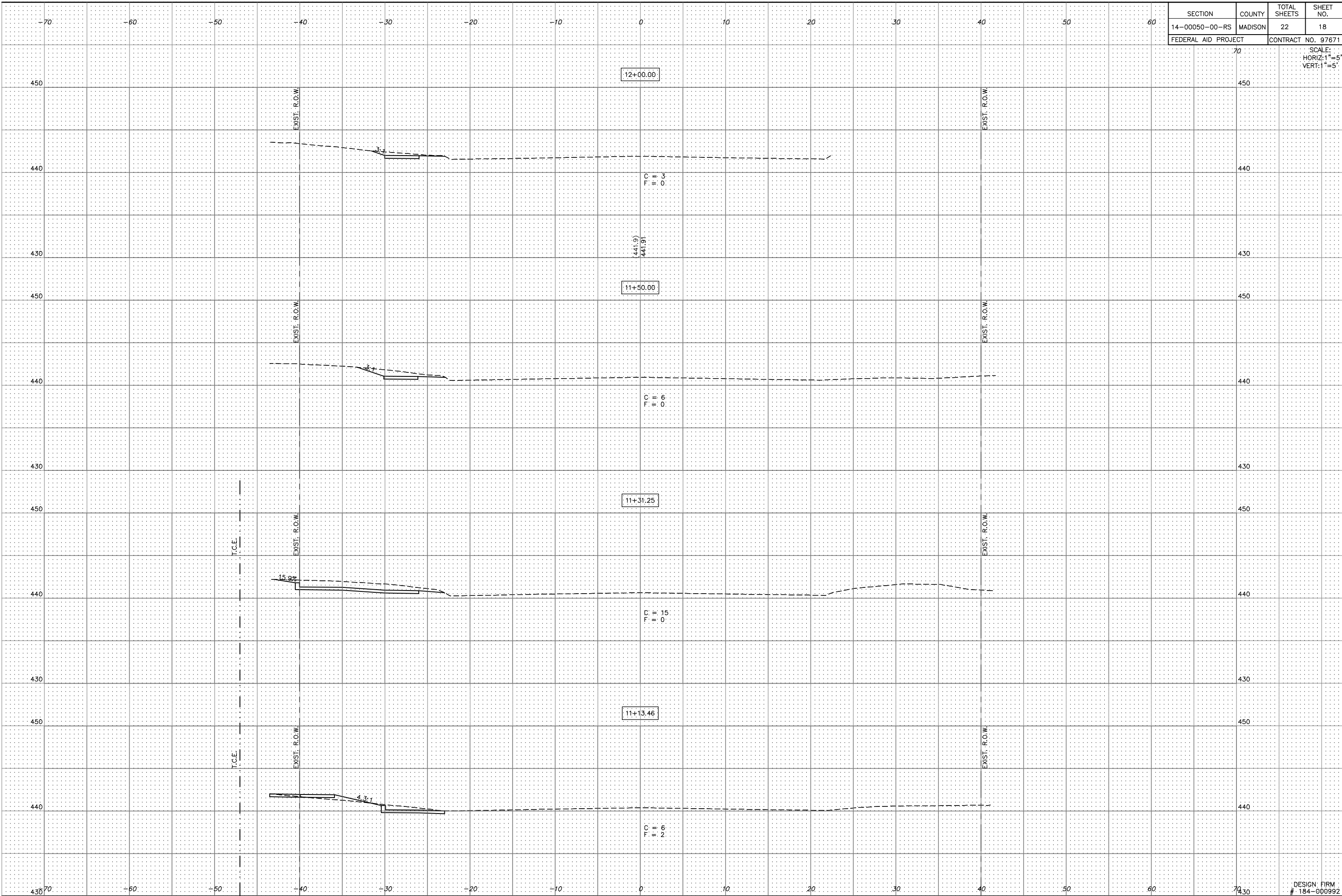
VILLAGE OF EAST ALTON  
 SECTION 14-00050-00-RS  
 BERSHIRE BLVD.  
 CONSTRUCTION DETAILS

CONTRACT NO. 97671	
EA BIRK DRWY DETAIL.DWG	
REF. BK.	PG.
JOB NO. 429080.1	
DSN. BY: DEG	
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DATE: NOV. 2017	
SCALE: VERT: 1" = 5'	
SHEET 17 OF 22	



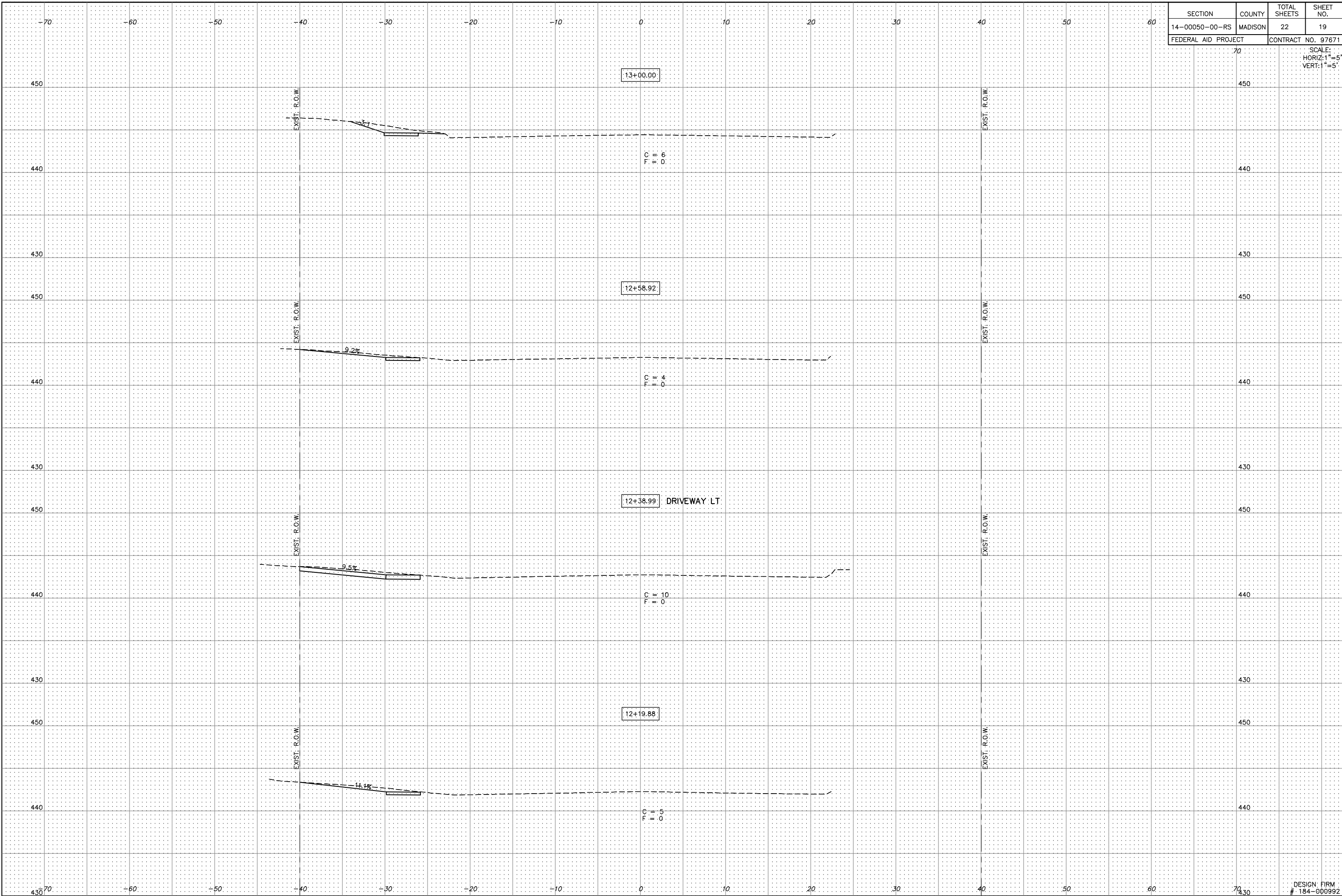
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14-00050-00-RS	MADISON	22	18
FEDERAL AID PROJECT		CONTRACT NO. 97671	

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VERT: 1"=5'



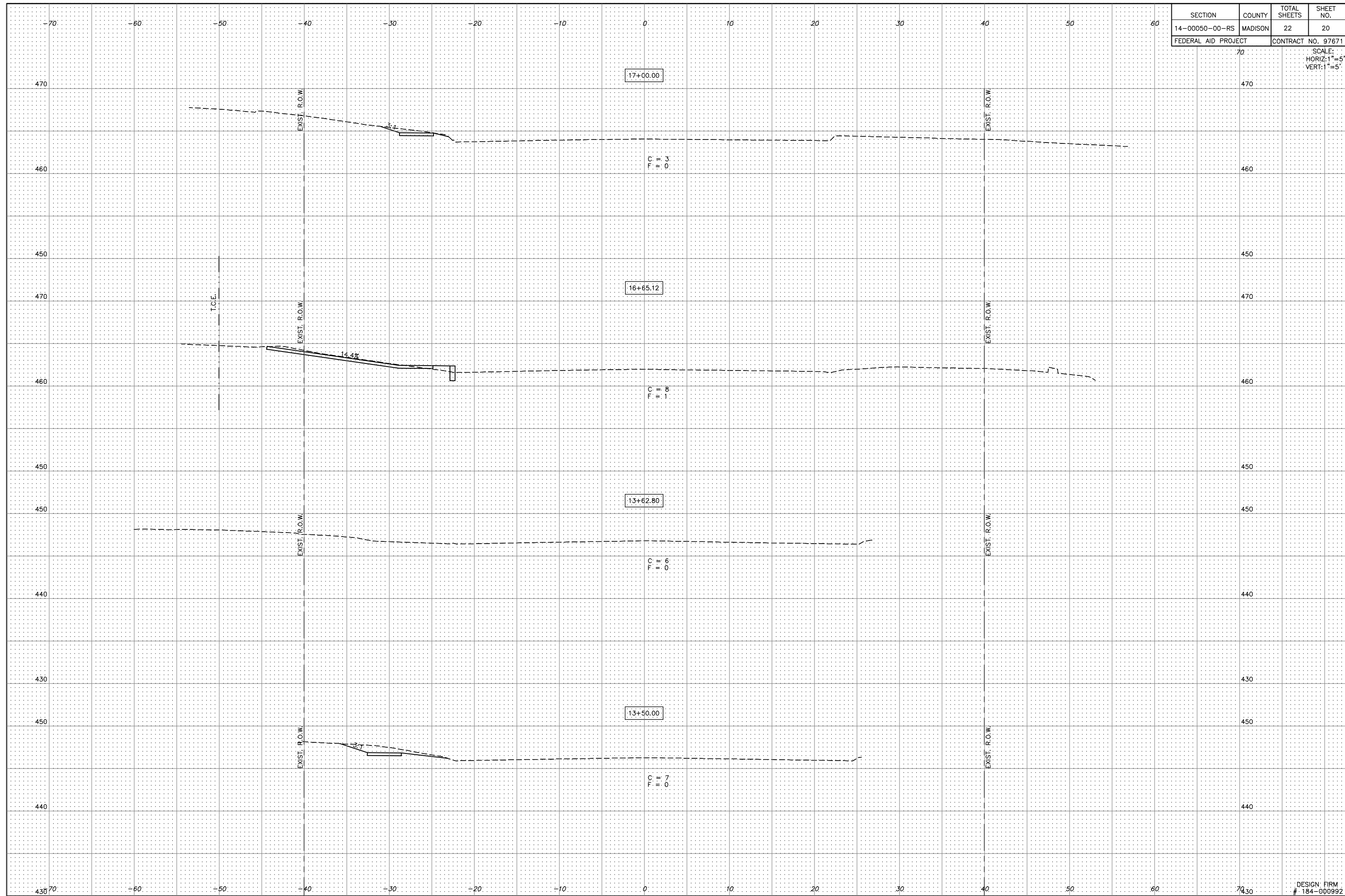
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FEDERAL AID PROJECT		CONTRACT NO. 97671	

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'



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14-00050-00-RS	MADISON	22	20
FEDERAL AID PROJECT		CONTRACT NO. 97671	

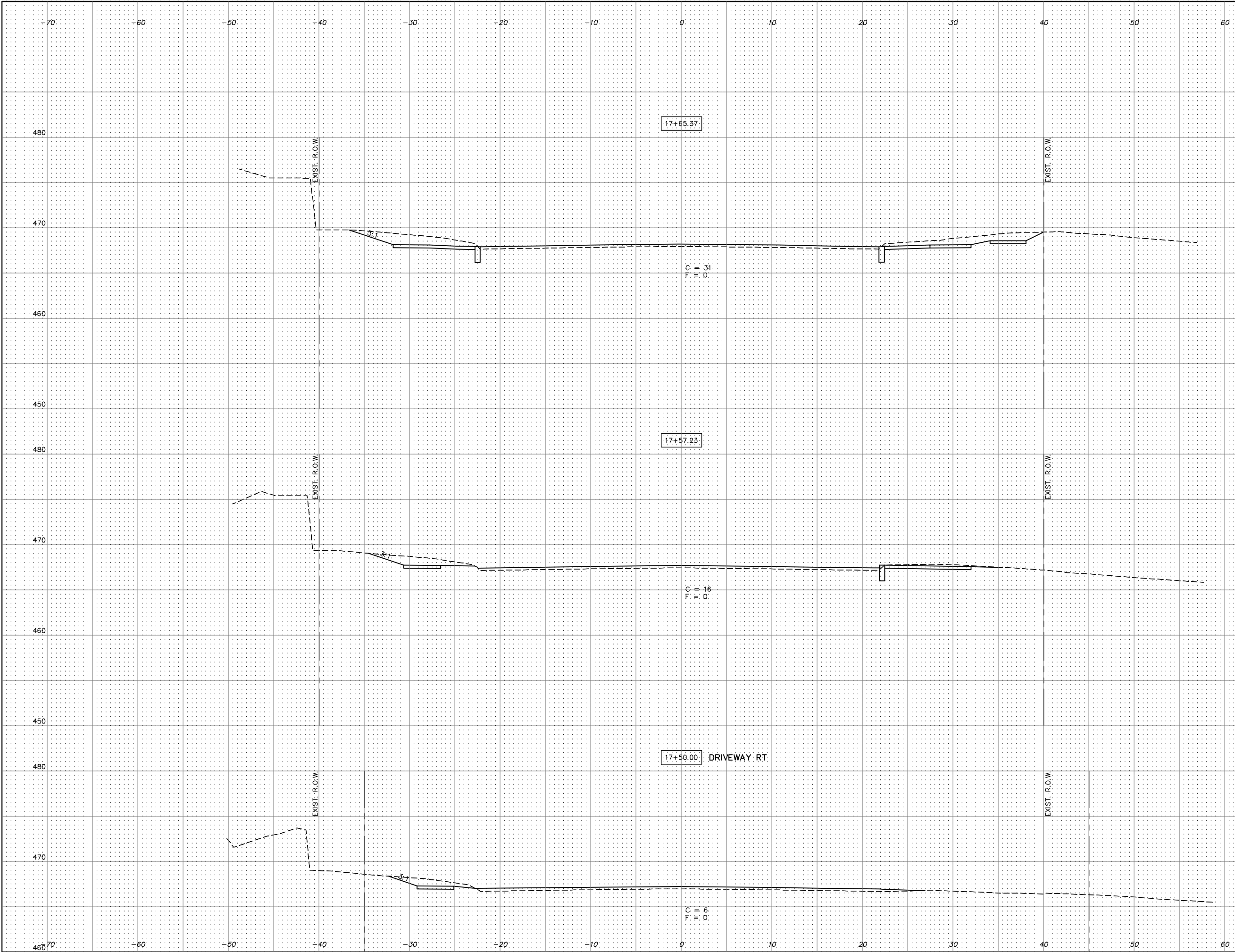
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14-00050-00-RS	MADISON	22	21
FEDERAL AID PROJECT		CONTRACT NO. 97671	

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'



17+65.37

C = 31  
F = D

17+57.23

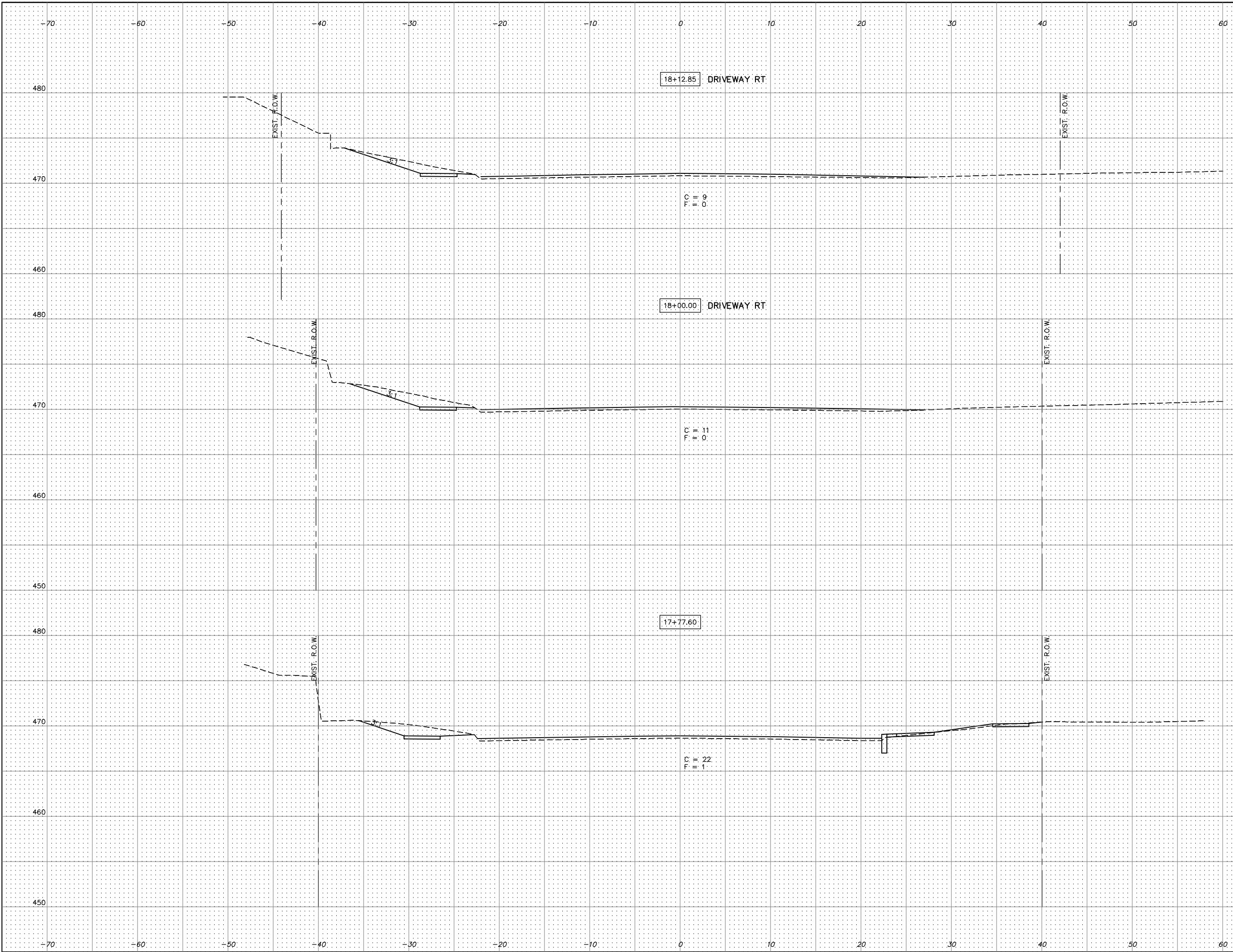
C = 16  
F = D

17+50.00 DRIVEWAY RT

C = 6  
F = D

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00050-00-RS	MADISON	22	22
FEDERAL AID PROJECT		CONTRACT NO. 97671	

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'



70	480		
480	470		
460	460		
480	480		
470	470		
460	460		
450	450		
480	480		
470	470		
460	460		
450	450		
70	480		