

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 945	15-00082-00-RS	ALEXANDER	39	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	99629	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES & GENERAL NOTES
3-4.	TYPICAL CROSS SECTION
5-6.	SCHEDULE OF QUANTITIES
7-10.	ALIGNMENT PLAN
11.	MISCELLANEOUS DETAILS
12-14.	SUPERELEVATION TRANSITIONS
15-17.	CULVERT PLANS
18.	EXISTING STRUCTURE PLANS
19.-39.	STATION CROSS SECTIONS

PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM
HIGHWAY SAFETY IMPROVEMENT PROJECT

ALEXANDER COUNTY
F.A.S. 945 / C.H. 4 / GRAPEVINE TRAIL
SECTION 15-00082-00-RS
RESURFACING
PROJECT UA5K(665)
JOB C-99-516-16

FOR HIGHWAY STANDARDS SEE SHT. 2

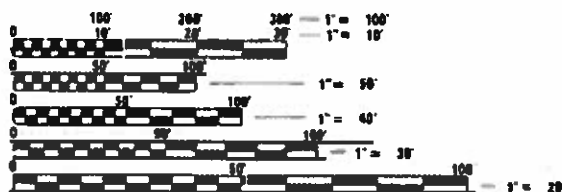


UTILITIES

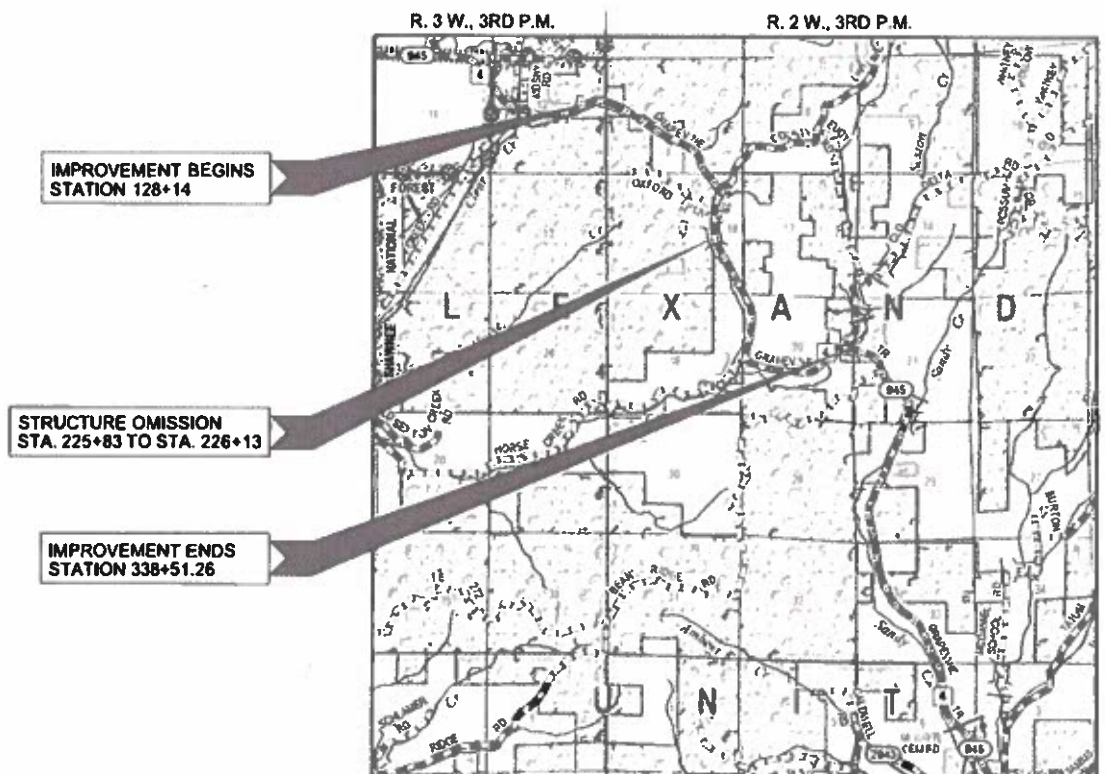
AT&T DISTRIBUTION
1640 HAZEL DELL RD
SPRINGFIELD, IL 62703
JAMES DARR
21-789-8771

SOUTHWATER, INC.
27183 SANDY CREEK RD.
TAMMS, IL 62988
DEREK HOGUE
618-697-4432

ZITO MEDIA
BRIAN MCBELL
814-203-9683



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.



LOCATION MAP

APPROXIMATE SCALE: MILE
NET LENGTH OF SECTION = 29,813 FEET = 3.94 MILES
TOTAL LENGTH OF SECTION = 29,843 FEET = 3.95 MILES
OMISSIONS: 30 FEET = 0.006 MILES



WARNING

CALL 811
BEFORE YOU DIG
DIG NO: A2953629

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED 4-16-19

COUNTY ENGINEER

PASSED APRIL 16, 2019

DISTRICT NINE ENGINEER OF LOCAL ROADS & STREETS
APRIL 16, 2019
REGION FIVE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE: 04/15/2019

HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	HSIP FUNDS	STR FUNDS
			CONSTRUCTION CODE 0021	CONSTRUCTION CODE 0005
			TOTAL	TOTAL
20200100	EARTH EXCAVATION	CU YD		105
20400800	FURNISHED EXCAVATION	CU YD		4770
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND		2000
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON		200
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	41214	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND		34002
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON		4051
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD		295
40600990	TEMPORARY RAMP	SQ YD		49
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON		4988
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD		80
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	18291	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND		6850
54002020	EXPANSION BOLTS 3/4 INCH	EACH		19
54003000	CONCRETE BOX CULVERTS	CU YD		28.5
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	1616	
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	8	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	20	
^ 63200310	GUARDRAIL REMOVAL	FOOT	2604	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	37828	
67100100	MOBILIZATION	L SUM	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2042	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	681	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	78220	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	406	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	18	
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	840	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	78220	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH		257
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	32	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH		257
^ X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	TON		140
^ X2140100	GRADING AND SHAPING DITCHES, SPECIAL	FOOT		2150

^ SEE SPECIAL PROVISIONS

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	HSIP FUNDS	STR FUNDS
			CONSTRUCTION CODE 0021	CONSTRUCTION CODE 0005
			TOTAL	TOTAL
^ X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE		5
^ X2810810	STONE DUMPED RIPRAP, CLASS A5 (SPECIAL)	TON		110
^ X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	
* ^ Z0033700	LONGITUDINAL JOINT SEALANT	FOOT		20609

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

GENERAL NOTES

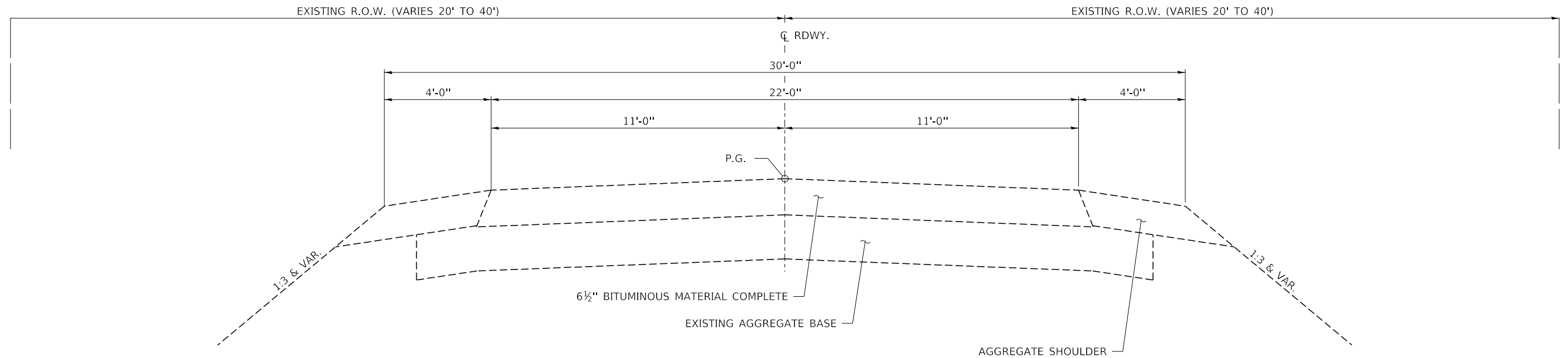
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016." THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE ROAD SHALL BE OPEN TO TRAFFIC AT ALL TIMES EXCEPT AS DISCUSSED IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING COSTRUCTION OF THE PROJECT.
- THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT OR PROTECTION IS NECESSARY.
- ALL EXCAVATED MATERIAL FROM THE PROJECT MAY BE USED IN THE PROPOSED EMBANKMENT AT THE APPROVAL OF THE ENGINEER.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 AGGREGATE SURFACE AND BASE COURSES 2.05 TON/CU.YD.
 HOT-MIX ASPHALT 112 LBS/SQ.YD./INCH THICKNESS
 STONE RIPRAP 1.75 TON/CU.YD.

BITUMINOUS MATERIALS RATES

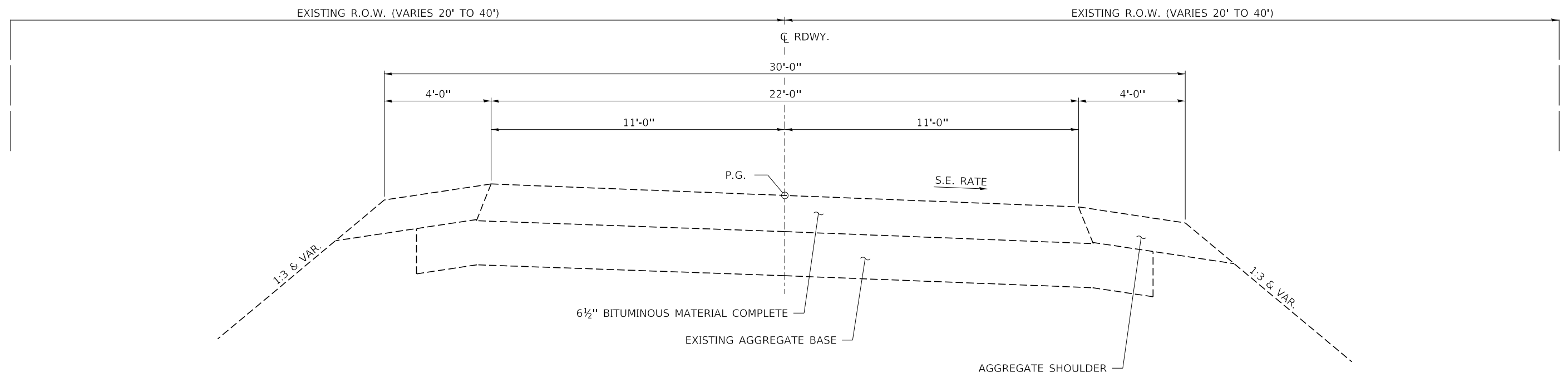
SURFACE TYPE	RESIDUAL RATE
MILLED HMA OR PCC (TACK COAT)	0.05 LB/SQ FT
EXISTING PAVEMENT (TACK COAT)	0.05 LB/SQ FT
BETWEEN LIFTS (TACK COAT)	0.025 LB/SQ FT
AGGREGATE (PRIME COAT)	0.25 LB/SQ FT

HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 642006 SHOULDER RUMBLE STRIPS, 8 IN.
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
- 701336-07 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 780001-05 TYPICAL PAVEMENT MARKINGS

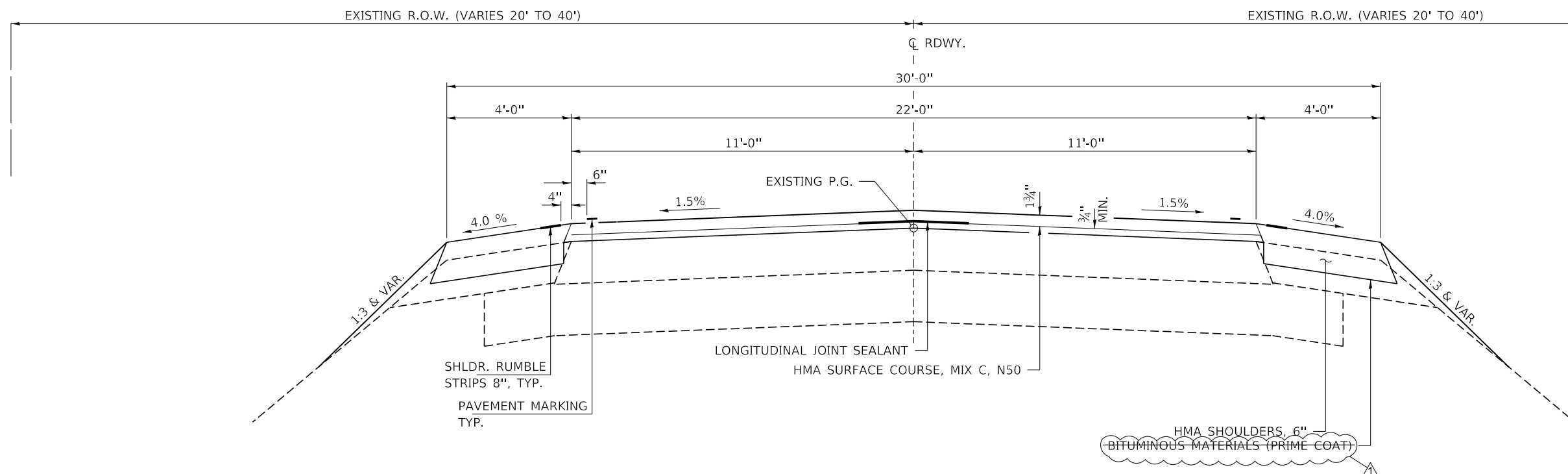


EXISTING TYPICAL CROSS SECTION

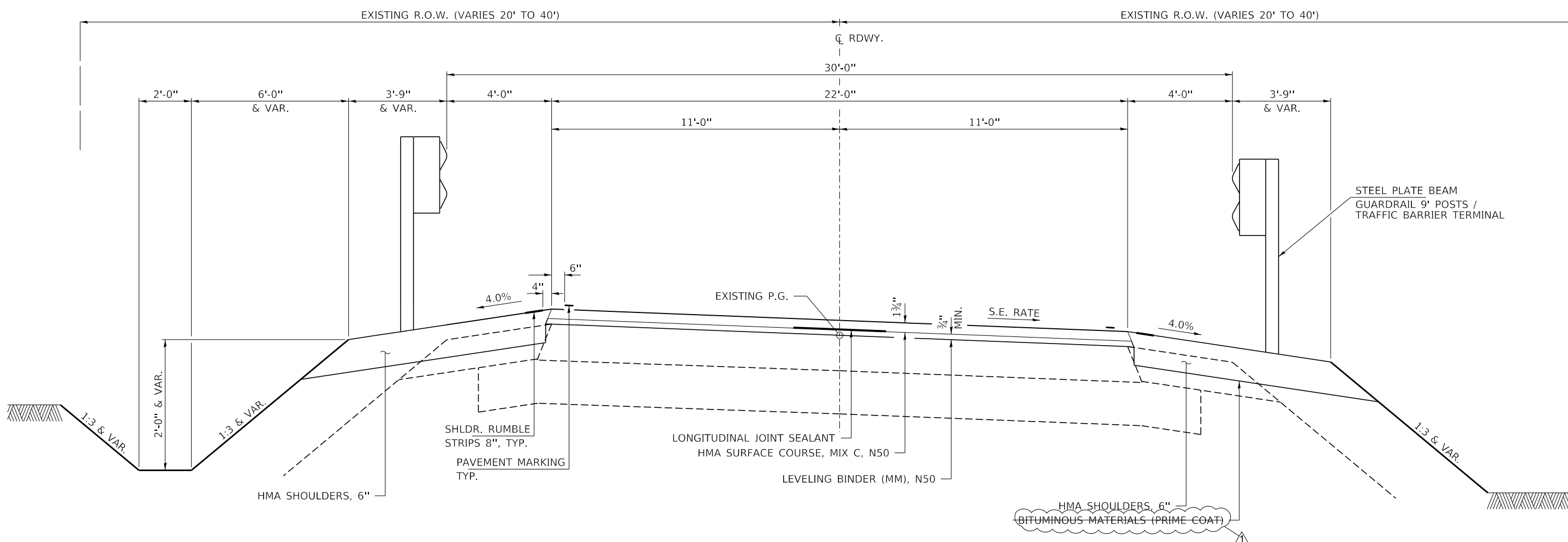


EXISTING TYPICAL CROSS SECTION SUPERELEVATED

FILE NAME = 170252-shi-typsections.dgn	USER NAME = tmk	DESIGNED - J.W.F.	REVISED - 05/30/19	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	TYPICAL CROSS SECTIONS GRAPEVINE TRAIL		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<small>HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000959</small>							945	15-00082-00-RS	ALEXANDER	39	3
PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	DATE - 04/26/19	REVISED -		SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT UA5K(665)		
PLOT DATE = 5/31/2019	DATE - 04/26/19	REVISED -	REVISED -		CONTRACT NO. 99629						



PROPOSED TYPICAL CROSS SECTION



PROPOSED TYPICAL CROSS SECTION SUPERELEVATED

FILE NAME = 170252-shi-typsections.dgn	USER NAME = thmk	DESIGNED - J.W.F.	REVISED - 05/30/19	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	TYPICAL CROSS SECTIONS GRAPEVINE TRAIL		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -		945	15-00082-00-RS	ALEXANDER	39	4		
PLOT DATE = 5/31/2019	DATE - 04/26/19	CHECKED - S.W.M.	REVISED -		SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT UA5K(665)		
			REVISED -		CONTRACT NO. 99629						

ASPHALT MIXTURE REQUIREMENTS					
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE	LEVELING BINDER	HMA SHOULDERS (TOP LIFT)	HMA SHOULDERS (BOTTOM LIFTS)	INCIDENTAL HMA SURFACING
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ Ndes 50	4% @ Ndes 50	4% @ Ndes 50	4% @ Ndes 50	4% @ Ndes 50
MIXTURE COMPOSITION: (MIXTURE GRADATION):	IL 9.5	IL 19.0	IL 9.5	IL 19.0	IL 9.5
FRICITION AGGREGATE:	MIXTURE C	NONE	MIXTURE C	NONE	MIXTURE C
MIXTURE WEIGHTS:	112 LBS. / SQ. YD. / INCH	112 LBS. / SQ. YD. / INCH	112 LBS. / SQ. YD. / INCH	112 LBS. / SQ. YD. / INCH	112 LBS. / SQ. YD. / INCH
QUALITY CONTROL PROGRAM:	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA

SIDE ROAD SCHEDULE		
LOCATION	WIDTH	HMA SURFACE COURSE MIX "C", N70
LT. STA. 203+49.14	22	5
RT. STA. 211+94.99	16	4
RT. STA. 283+40.87	16	4
LT. STA. 335+00.32	22	5
TOTAL		18

ROADWAY SCHEDULE														
LOCATION	AGGREGATE SURFACE COURSE TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	LEVELING BINDER (MACHINE METHOD) N50	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	HOT-MIX ASPHALT SURFACE REMOVAL 1 3/4"	TEMPORARY RAMP	HOT-MIX ASPHALT SURFACE COURSE MIX C N50	HOT-MIX ASPHALT SHOULDERS 6"	SHOULDER RUMBLE STRIPS 8"	GRADING & SHAPING DITCHES SPECIAL	LONGITUDINAL JOINT SEALANT	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
FAS 945 / CH 4 / GRAPEVINE TRAIL	TON	POUND	POUND	TON	SQ YD	SQ YD	SQ YD	TON	SQ YD	FOOT	FOOT	FOOT	EACH	EACH
STA. 128+14 TO STA. 151+00		4,570	3770	406	74		12	551	2,031	3,679	225	2,286	29	29
STA. 152+00 TO STA. 171+56.44		3,913	3,228	434				472	1,739	3,491	200	1,956	24	24
STA. 171+56.80 TO STA. 192+80.43		4,247	3,504	400				512	1,888	4,004	225	2,124	27	27
STA. 192+90.46 TO STA. 198+00		1,019	841	112				123	453	1,019	100	510	6	6
STA. 199+00 TO STA. 287+63.62		17,727	14,625	1,731	147	80	25	2138	7,852	16,113	900	8,864	111	111
STA. 287+47 TO STA. 336+15		9,738	8,034	968	74		12	1174	4,328	9,522	500	4,869	60	60
ENTRANCES	200													
SIDE ROADS								18						
TOTAL	200	41214	34002	4051	295	80	49	4988	18291	37828	2150	20609	257	257

PAVEMENT MARKING SCHEDULE								
LOCATION	PAINT PAVEMENT MARKING LINE, 4"			SHORT TERM PAVEMENT MARKING LINE, 4"	TEMPORARY PAVEMENT MARKING LINE, 4"			SHORT TERM PAVEMENT MARKING REMOVAL
	WHITE SOLID EDGE LINES	YELLOW SOLID NO PASSING	YELLOW SKIP-DASH CENTERLINE		WHITE SOLID EDGE LINES	YELLOW SOLID NO PASSING	YELLOW SKIP-DASH CENTERLINE	
FAS 945 / CH 4 / GRAPEVINE TRAIL	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT
LT. STA. 128+14.00 TO LT. STA. 338+51.26 (OMIT S.R.)	20,417				20,417			
RT. STA. 128+14.00 TO RT. STA. 338+51.26 (OMIT S.R.)	20,425				20,425			
LT. STA. 128+14.00 TO STA. 151+00.00		2,286				2,286		
LT. STA. 183+31.01 TO STA. 210+04.73		2,564				2,564		
LT. STA. 215+53.73 TO STA. 239+93.85		2,440				2,440		
LT. STA. 255+10.40 TO STA. 303+87.08		4,893				4,893		
LT. STA. 312+78.85 TO STA. 336+16		2,337				2,337		
CL. STA. 143+94.16 TO STA. 183+31.01			3,836				3,836	
CL. STA. 207+61.33 TO STA. 209+71.68			210				210	
CL. STA. 210+04.73 TO STA. 215+53.73			549				549	
CL. STA. 226+92.97 TO STA. 255+10.40			2,817				2,817	
CL. STA. 264+93.61 TO STA. 269+38.67			445				445	
CL. STA. 295+77.96 TO STA. 312+71.67			694				694	
CL. STA. 303+87.08 TO STA. 312+78.85			892				892	
RT. STA. 128+14.00 TO STA. 143+94.16		1,580				1,580		
RT. STA. 178+54.02 TO STA. 207+61.33		2,797				2,797		
RT. STA. 209+71.68 TO STA. 226+92.97		1,722				1,722		
RT. STA. 251+78.49 TO STA. 264+93.61		1,315				1,315		
RT. STA. 269+38.67 TO STA. 295+77.96		2,656				2,656		
RT. STA. 302+71.67 TO STA. 336+16		3,344				3,344		
CL. STA. 128+14.00 TO STA. 338+51.26				2,042				681
SUBTOTAL	40,842	27,934	9,444	2,042	40,842	27,934	9,444	681
TOTAL		78,220		2,042		78,220		681

SIGN SCHEDULE			
CURVE	STATION	SIGN PANEL TYPE 1	STEEL SIGN SUPPORT
		SQ FT	FOOT
7	184+95.36	58	120
8	190+84.51	58	120
9	205+12.04	58	120
6	225+25.73	58	120
15	285+05.76	58	120
18	316+92.68	58	120
19	327+89.72	58	120
TOTAL		406	840

ENTRANCE SCHEDULE		
LOCATION	TYPE	AGGREGATE SURFACE COURSE TYPE B TON
LT 127+69.92	PE	2.8
RT 131+60.41	FE	2.3
RT 133+10.94	PE	2.1
LT 133+28.62	PE	1.7
LT 133+96.21	PE	2.2
RT 134+29.04	PE	1.7
RT 135+36.65	PE	2.4
LT 136+55.94	PE	2.4
RT 137+80.91	PE	2.6
RT 139+71.57	PE	2.3
RT 141+39.64	PE	2.4
LT 141+89.51	PE	2.7
RT 142+28.64	PE	1.7
LT 143+98.82	PE	3.0
RT 144+86.99	FE	3.1
LT 145+58.77	PE	1.7
RT 146+52.75	PE	2.3
RT 148+32.81	FE	3.6
LT 148+07.69	PE	2.2
LT 148+23.00	FE	1.9
RT 154+76.85	PE	2.1
RT 157+15.97	FE	7.3
LT 160+01.13	PE	2.5
LT 165+60.49	PE	2.8
RT 165+67.79	PE	4.8
RT 166+36.30	PE	2.7
LT 168+10.22	PE	2.1

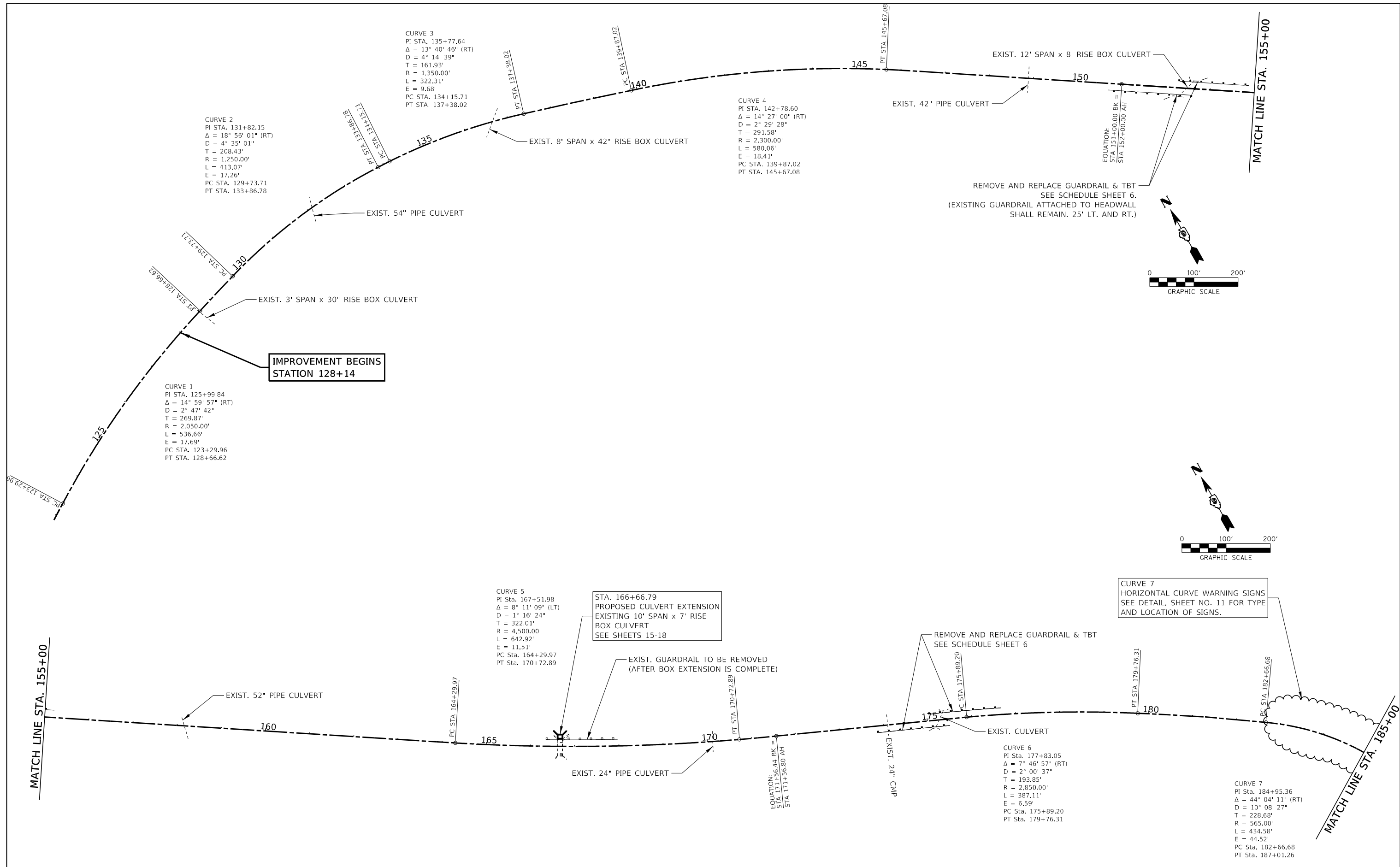
ENTRANCE SCHEDULE		
LOCATION	TYPE	AGGREGATE SURFACE COURSE TYPE B TON
LT 169+95.73	PE	1.8
RT 172+85.90	FE	5.1
LT 173+71.71	PE	3.1
LT 174+54.73	FE	1.5
RT 176+37.92	FE	2.2
LT 184+76.37	FE	2.1
RT 204+22.21	FE	3.5
RT 207+39.56	FE	3.6
RT 208+72.46	FE	2.3
LT 211+18.00	FE	1.9
LT 212+77.58	PE	2.4
LT 226+81.42	PE	3.7
RT 227+32.27	PE	3.1
LT 229+44.47	FE	3.1
RT 230+45.90	FE	3.1
LT 230+52.25	FE	2.4
LT 238+09.02	FE	2.4
RT 246+03.69	PE	2.3
RT 247+69.20	PE	2.7
LT 249+37.18	FE	2.7
RT 253+27.01	PE	2.9
LT 253+67.49	FE	3.3
RT 255+22.69	PE	3.8
LT 258+27.73	FE	2.9
RT 258+62.57	PE	2.4

ENTRANCE SCHEDULE		
LOCATION	TYPE	AGGREGATE SURFACE COURSE TYPE B TON
RT 259+90.65	PE	3.4
RT 261+55.32	PE	3.8
LT 263+15.85	PE	5.1
LT 264+63.34	PE	2.8
RT 265+40.00	PE	4.0
LT 270+96.05	PE	3.1
RT 273+51.20	PE	2.5
RT 281+44.10	PE	3.8
LT 286+65.34	PE	3.8
LT 294+25.16	PE	2.7
RT 308+89.63	FE	3.0
LT 309+20.26	PE	2.7
TOTAL		182.4
USE		200

GUARDRAIL SCHEDULE						
LOCATION	STEEL PLATE BEAM GUARDRAIL TYPE A 9 FOOT POSTS FOOT	TRAFFIC BARRIER TERMINAL TYPE 5A EACH	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) EACH	GUARDRAIL REMOVAL FOOT	GUARDRAIL REFLECTORS TYPE A EACH	TERMINAL MARKER DIRECT APPLIED EACH
LT STA 153+27.29 TO STA. 153+48.67			1	22	1	1
LT STA 153+73.65 TO STA 155+21.00	113		1	147	2	1
RT STA 150+70.04 TO STA 153+20.71	113		1	151	2	1
RT STA 153+45.70 TO STA 153+60.50			1	15	1	1
LT STA 166+34.87 TO STA 167+98.31				164		
LT STA 175+03.20 TO STA 176+68.52	88		2	165	2	1
RT STA 173+84.42 TO STA 175+49.85	88		2	165	2	1
LT STA 192+68.96 TO 197+06.30	350		2	425	5	2
RT STA 194+76.55 TO 200+78.62	425		2	502	6	2
LT STA 225+09.87 TO 225+74.49	13	1	1	65	1	1
LT STA 226+04.86 TO 226+56.11		1	1	51	1	1
RT STA 224+70.90 TO 225+94.27	75	1	1	123	2	1
RT STA 226+23.51 TO 226+87.01	13	1	1	64	1	1
LT STA 335+31.98 TO STA 336+19.64	38	1	1	89	1	1
LT STA 336+75.14 TO STA 338+51.26	125	1	1	177	2	1
RT STA 334+33.65 TO STA 336+12.16	125	1	1	177	2	1
RT STA 336+68.22 TO STA 337+71.54	50	1	1	102	1	1
TOTAL	1616	8	20	2604	32	18

EARTHWORK SCHEDULE						
LOCATION	EARTH EXCAVATION CU YD	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE CU YD	EMBANKMENT REQUIRED CU YD	EARTHWORK BALANCE CU YD
FAS 945 / CH 4 / GRAPEVINE TRAIL	CU YD			CU YD	CU YD	CU YD
STA 128+15 TO STA 150+00	9	25%	100%	7	390	-383
STA 150+00 TO STA 155+00	1	25%	100%	1	141	-140
STA 155+00 TO STA 175+00	13	25%	100%	10	162	-152
STA 175+00 TO STA 177+00	0	25%	100%	0	134	-134
STA 177+00 TO STA 192+00	1	25%	100%	1	96	-95
STA 192+00 TO STA 201+00	0	25%	100%	0	1875	-1875
STA 201+00 TO STA 225+00	14	25%	100%	10	250	-239
STA 225+00 TO STA 227+00	3	25%	100%	2	58	-56
STA 227+00 TO STA 334+00	61	25%	100%	46	1444	-1398
STA 334+00 TO STA 336+15	1	25%	100%	1	85	-84
STA 336+15 TO STA 336+71	0	25%	100%	0	0	0
STA 336+71 TO STA 339+00	0	25%	100%	0	212	-212
TOTAL	104			78	4847	-4768
USE	105					-4770

FURNISHED EXCAVATION 4770 CU YD



**IMPROVEMENT BEGINS
STATION 128+14**

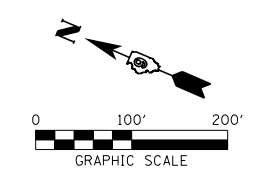
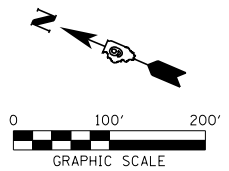
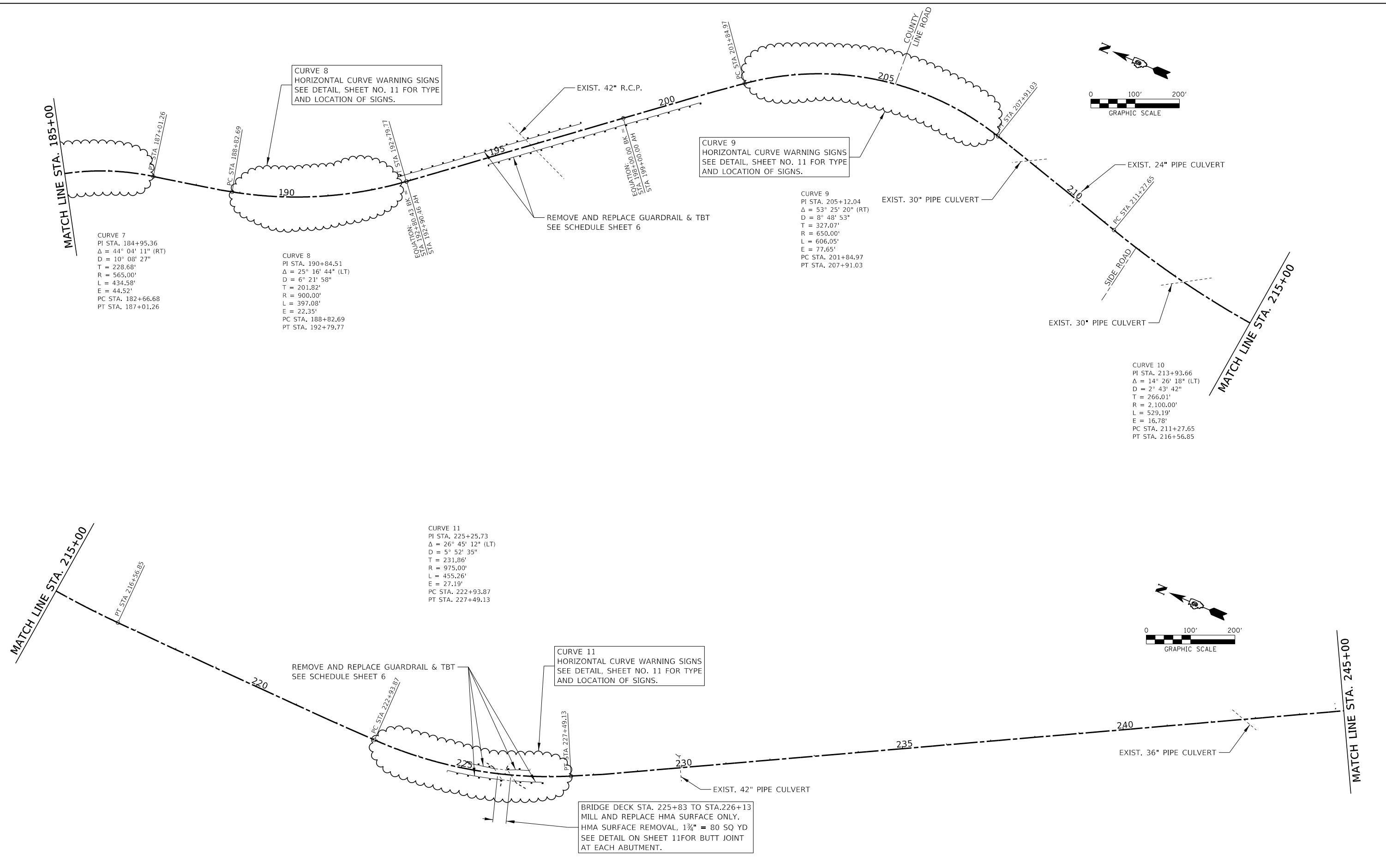
**STA. 166+66.79
PROPOSED CULVERT EXTENSION
EXISTING 10' SPAN x 7' RISE
BOX CULVERT
SEE SHEETS 15-18**

**CURVE 7
HORIZONTAL CURVE WARNING SIGNS
SEE DETAIL, SHEET NO. 11 FOR TYPE
AND LOCATION OF SIGNS.**

SEE SHEETS 12 THRU 14 FOR SUPERELEVATION RATES

FILE NAME = 170252-shi-illgrv.dgn	USER NAME = thmk	DESIGNED - J.W.F.	REVISED - 05/30/19	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	ALIGNMENT PLAN GRAPEVINE TRAIL	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -			945	15-00082-00-RS	ALEXANDER	39	7	
PLOT DATE = 5/31/2019	DATE - 04/26/19	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 99629					
		DATE - 04/26/19	REVISED -			ILLINOIS	FED. AID PROJECT UA5K(665)				

SCALE: 1"=100' SHEET NO. 1 OF 4 SHEETS STA. 123+00 TO STA. 185+00



SEE SHEETS 12 THRU 14 FOR SUPERELEVATION RATES

FILE NAME = 170252-shi-illgrv.dgn	USER NAME = tmk	DESIGNED - J.W.F.	REVISED - 05/30/19	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	ALIGNMENT PLAN GRAPEVINE TRAIL	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000959	PLOT SCALE = \$SCALES	DRAWN - T.W.K.	REVISED -			945	15-00082-00-RS	ALEXANDER	39	8	
PLOT DATE = 5/31/2019	DATE - 04/26/19	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 99629					
						SCALE: 1"=100'	SHEET NO. 2 OF 4 SHEETS	STA. 185+00	TO STA. 245+00	ILLINOIS FED. AID PROJECT UA5K(665)	

MATCH LINE STA. 245+00

EXIST. 48" PIPE CULVERT

250

255

260

265

270

MATCH LINE STA. 275+00

MATCH LINE STA. 295+00

MATCH LINE STA. 275+00

EXIST. 72" PIPE CULVERT

CURVE 14
 PI STA. 276+96.88
 $\Delta = 8^\circ 54' 34"$ (RT)
 $D = 2^\circ 51' 53"$
 $T = 155.81'$
 $R = 2,000.00'$
 $L = 311.00'$
 $E = 6.06'$
 PC STA. 275+41.07
 PT STA. 278+52.07

CURVE 15
 PI STA. 285+05.76
 $\Delta = 95^\circ 01' 14"$ (LT)
 $D = 12^\circ 35' 33"$
 $T = 496.73'$
 $R = 455.00'$
 $L = 754.58'$
 $E = 218.62'$
 PC STA. 280+09.04
 PT STA. 287+63.62

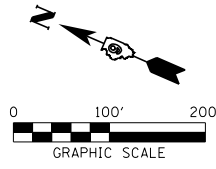
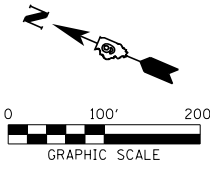
CURVE 16
 PI STA. 287+50.12
 $\Delta = 0^\circ 47' 13"$ (LT)
 $D = 12^\circ 35' 33"$
 $T = 3.12'$
 $R = 455.00'$
 $L = 6.25'$
 $E = 0.01'$
 PC STA. 287+47.00
 PT STA. 287+53.25

CURVE 15
 HORIZONTAL CURVE WARNING SIGNS
 SEE DETAIL, SHEET NO. 11 FOR TYPE
 AND LOCATION OF SIGNS.

SIDE ROAD

CURVE 12
 PI STA. 262+38.37
 $\Delta = 26^\circ 53' 32"$ (RT)
 $D = 3^\circ 57' 54"$
 $T = 345.48'$
 $R = 1,445.00'$
 $L = 678.22'$
 $E = 40.73'$
 PC STA. 258+92.89
 PT STA. 265+71.11

CURVE 13
 PI STA. 267+43.39
 $\Delta = 9^\circ 19' 53"$ (RT)
 $D = 3^\circ 22' 13"$
 $T = 138.74'$
 $R = 1,700.00'$
 $L = 276.87'$
 $E = 5.65'$
 PC STA. 266+04.65
 PT STA. 268+81.52



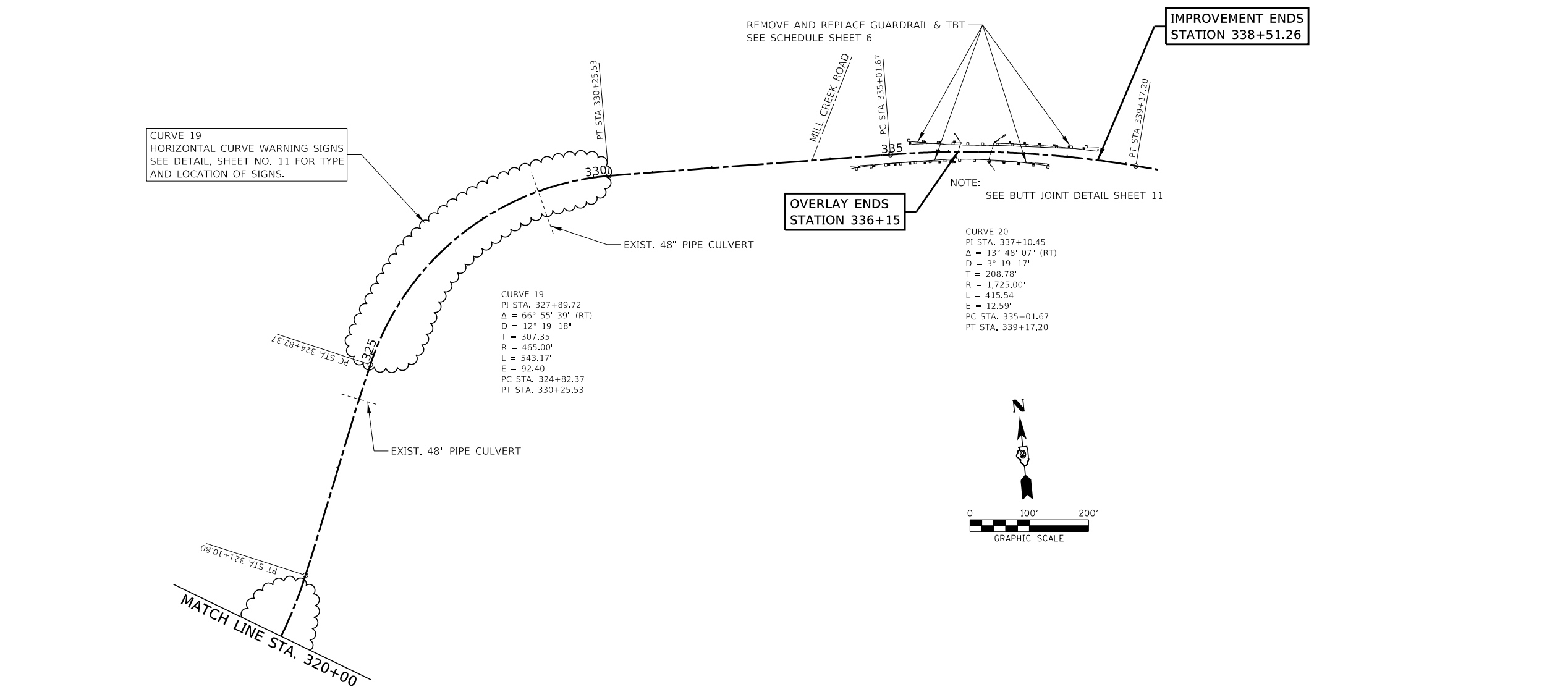
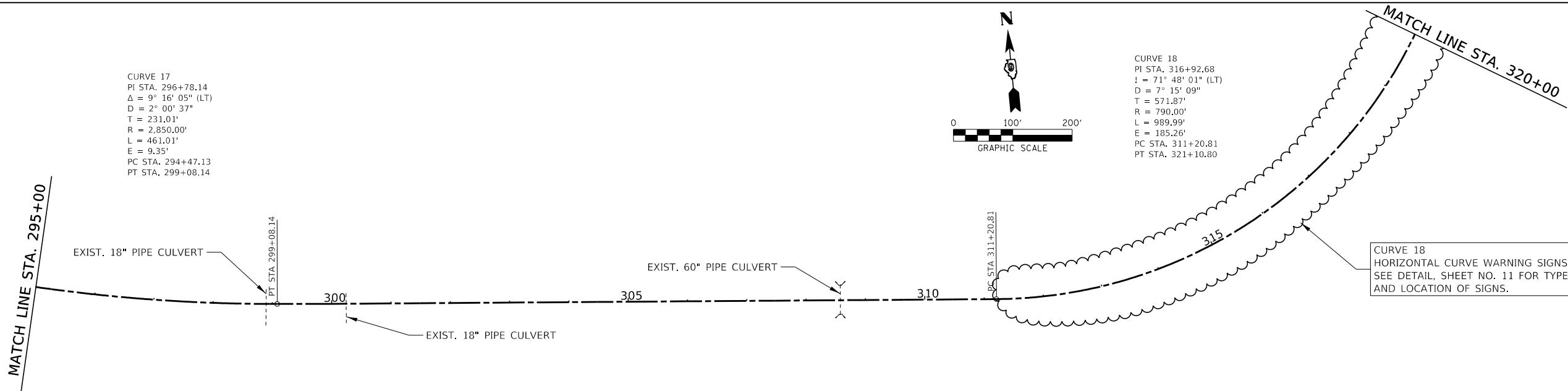
SEE SHEETS 12 THRU 14 FOR SUPERELEVATION RATES

FILE NAME = 170252-shi-illgr.dgn	USER NAME = tmmk	DESIGNED - J.W.F.	REVISED - 05/30/19
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -
PLOT DATE = 5/31/2019	DATE = 04/26/19	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
 ALEXANDER COUNTY HIGHWAY DEPARTMENT

ALIGNMENT PLAN GRAPEVINE TRAIL		F.A.S. 945	SECTION 15-00082-00-RS	COUNTY ALEXANDER	TOTAL SHEETS 39	SHEET NO. 9
SCALE: 1"=100'	SHEET NO. 3 OF 4 SHEETS	STA. 245+00	TO STA. 290+00			

ILLINOIS FED. AID PROJECT UA5K(665)		CONTRACT NO. 99629
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SEE SHEETS 12 THRU 14 FOR SUPERELEVATION RATES

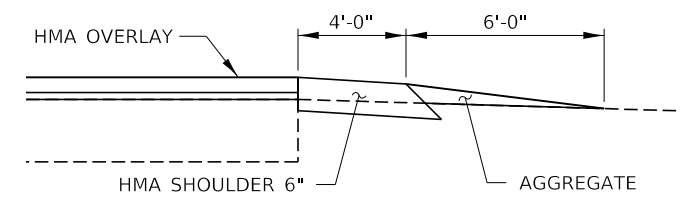
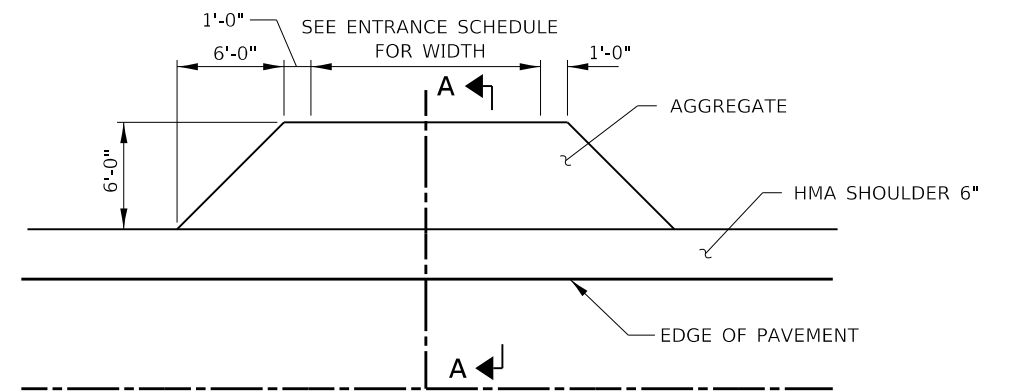
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HAMPTON, LENZINI AND RENWICK, INC. <small>3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959</small>	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -
	PLOT DATE = 5/31/2019	CHECKED - S.W.M.	REVISED -
	DATE = 04/26/19	REVISED -	REVISED -

**STATE OF ILLINOIS
ALEXANDER COUNTY HIGHWAY DEPARTMENT**

**ALIGNMENT PLAN
GRAPEVINE TRAIL**

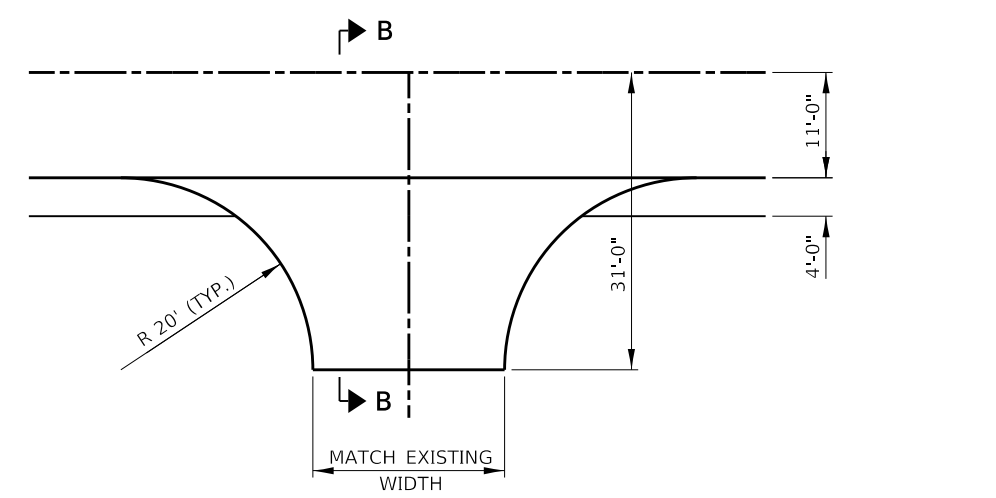
SCALE: 1"=100' SHEET NO. 4 OF 4 SHEETS STA. 295+00 TO STA. 334+00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
945	15-00082-00-RS	ALEXANDER	39	10
CONTRACT NO. 99629				
ILLINOIS FED. AID PROJECT UA5K(665)				

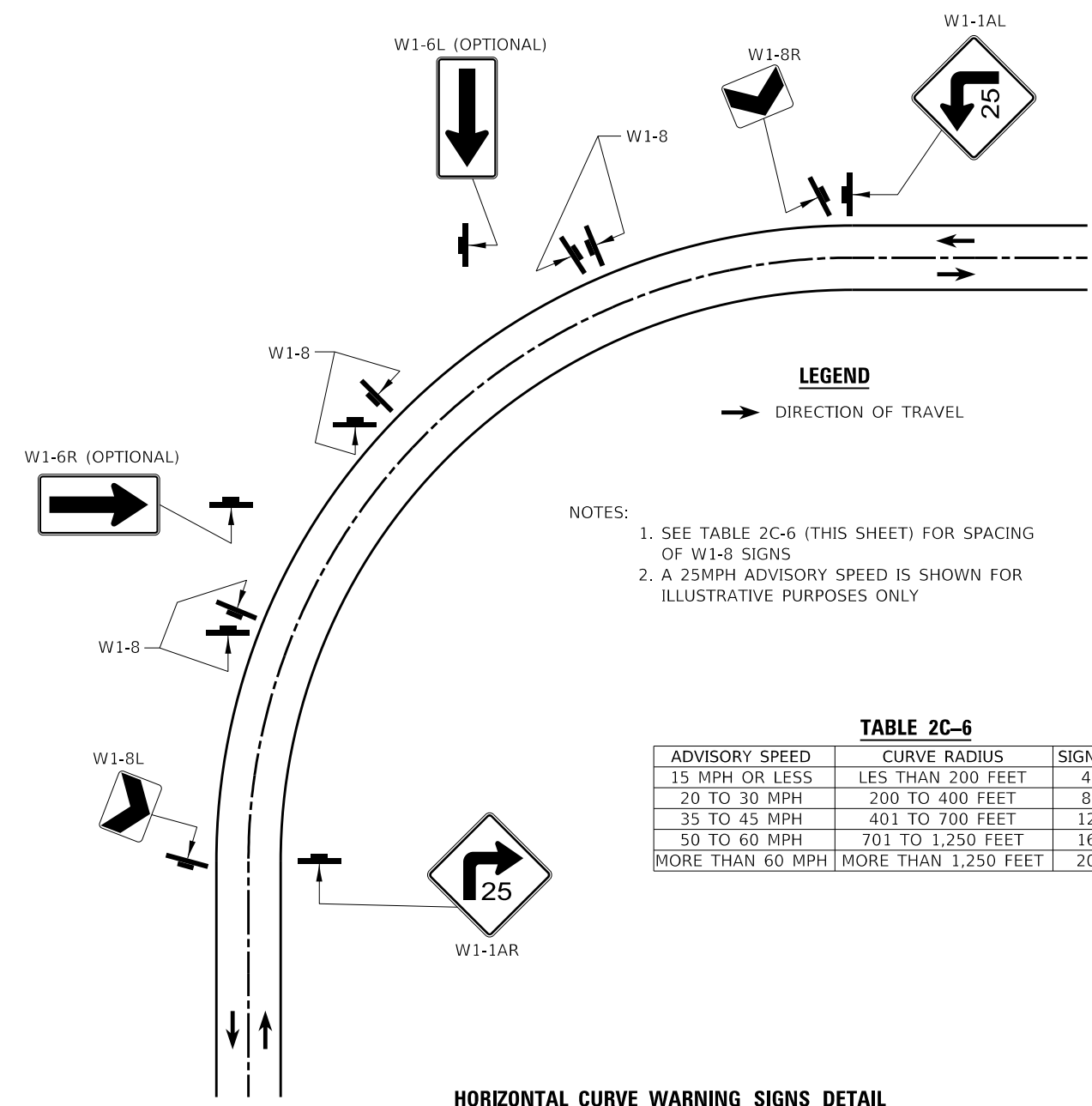


SECTION A-A
TYPICAL ENTRANCE DETAIL

NOTE:
OMIT RUMBLE STRIPS ACROSS ENTRANCES
AND SIDEROADS PER STD. 642006



SECTION B-B
TYPICAL SIDEROAD DETAIL



LEGEND
→ DIRECTION OF TRAVEL

NOTES:
1. SEE TABLE 2C-6 (THIS SHEET) FOR SPACING OF W1-8 SIGNS
2. A 25MPH ADVISORY SPEED IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY

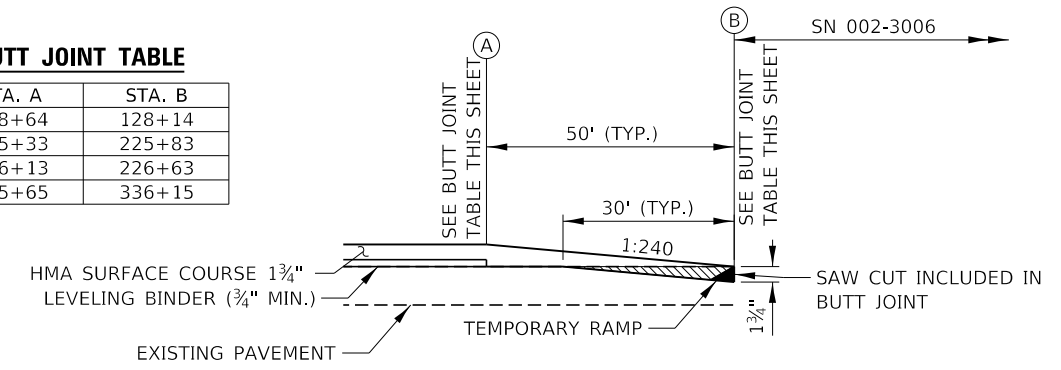
TABLE 2C-6

ADVISORY SPEED	CURVE RADIUS	SIGN SPACING
15 MPH OR LESS	LES THAN 200 FEET	40 FEET
20 TO 30 MPH	200 TO 400 FEET	80 FEET
35 TO 45 MPH	401 TO 700 FEET	120 FEET
50 TO 60 MPH	701 TO 1,250 FEET	160 FEET
MORE THAN 60 MPH	MORE THAN 1,250 FEET	200 FEET

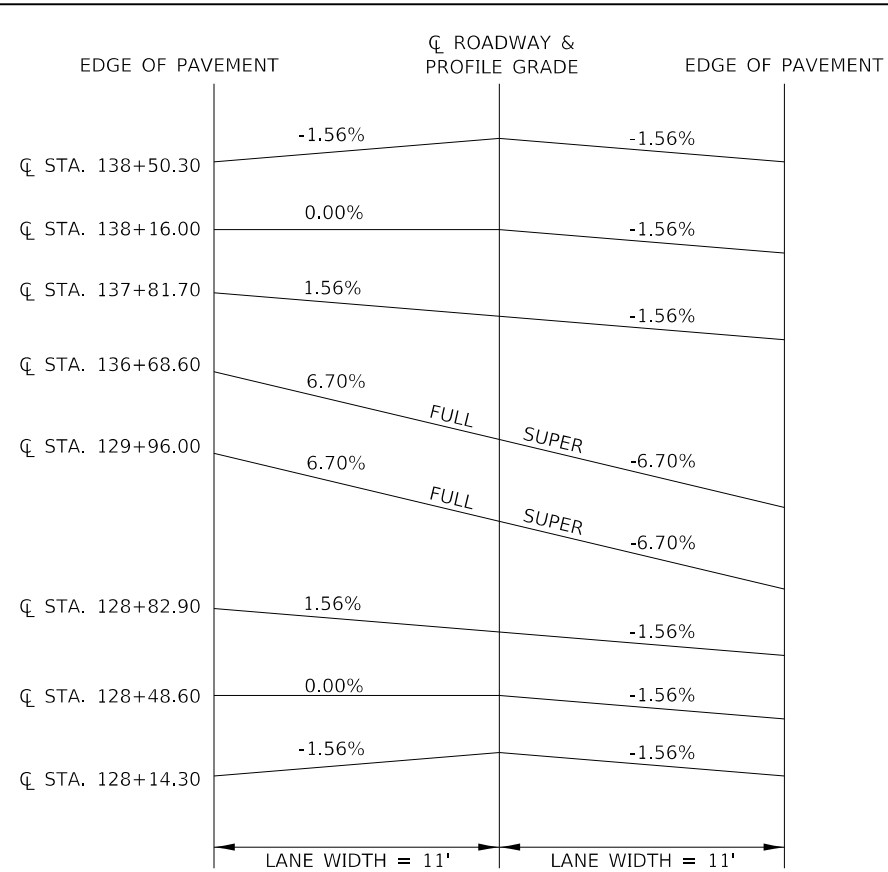
HORIZONTAL CURVE WARNING SIGNS DETAIL

BUTT JOINT TABLE

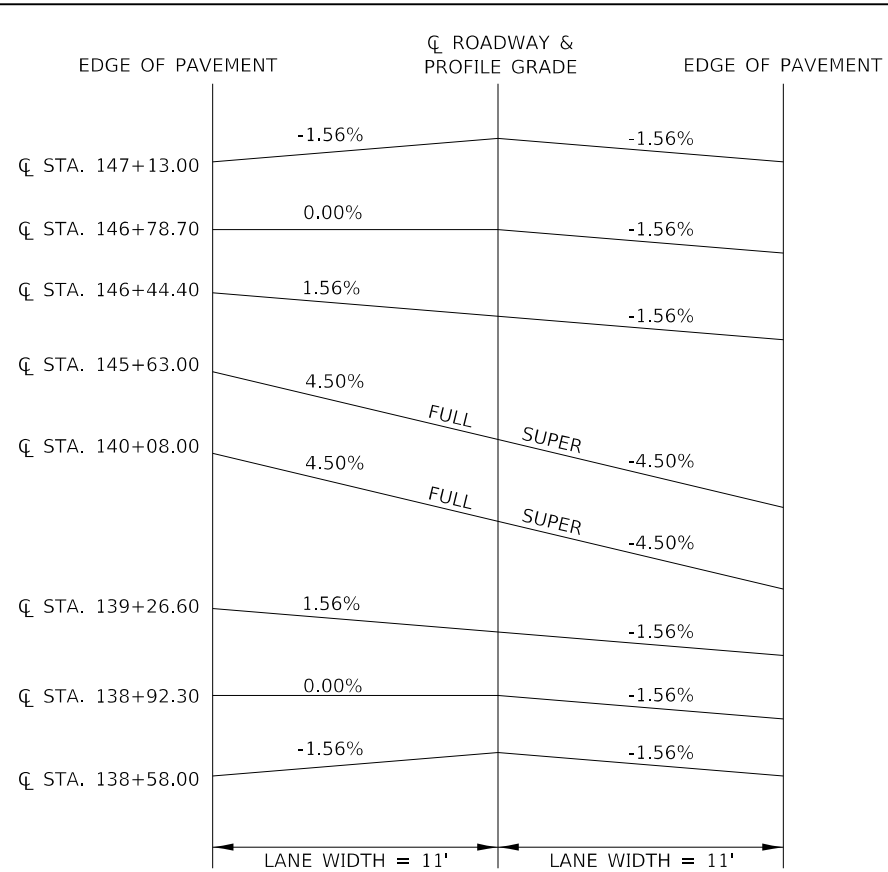
STA. A	STA. B
128+64	128+14
225+33	225+83
226+13	226+63
335+65	336+15



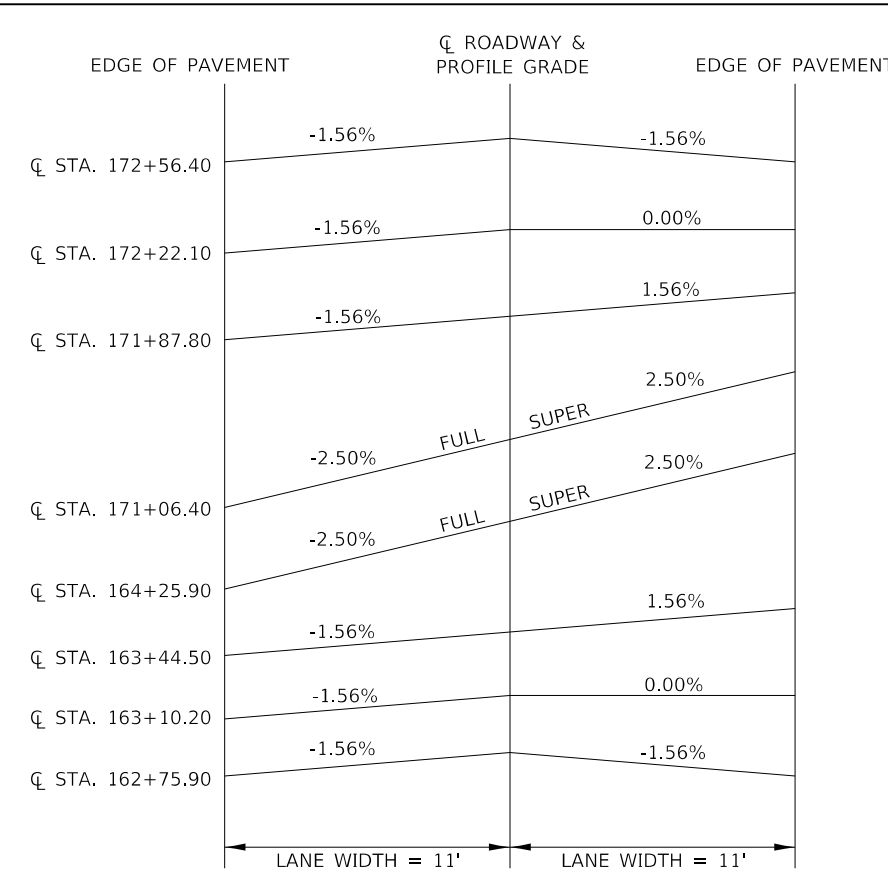
BUTT JOINT DETAIL



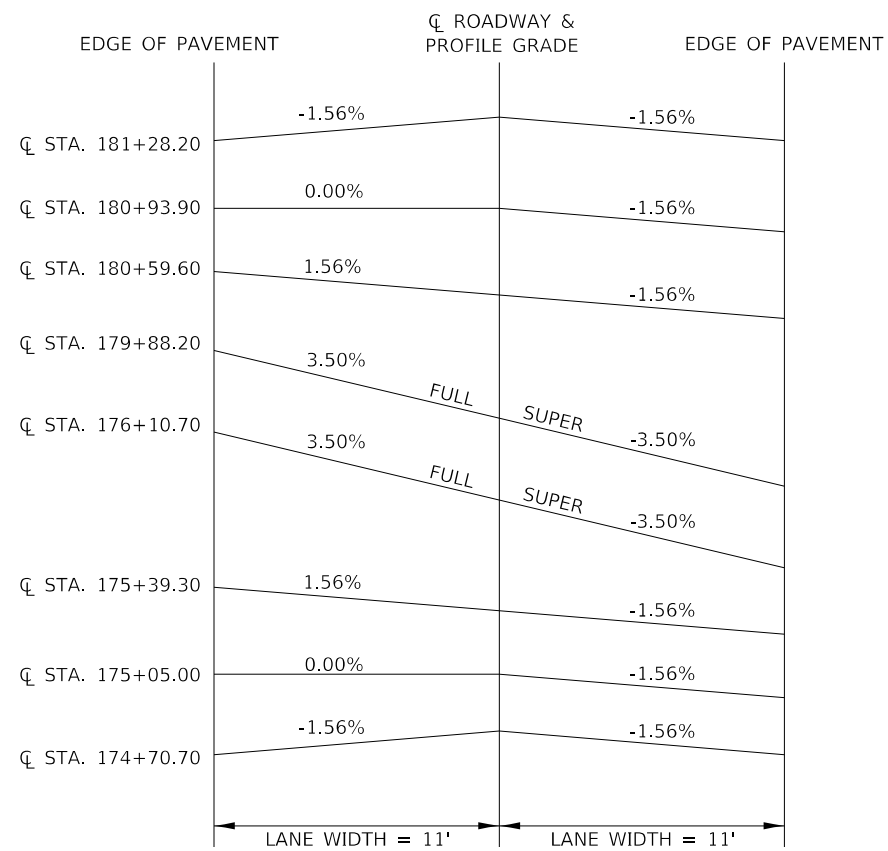
CURVE 2 SUPERELEVATION TRANSITION



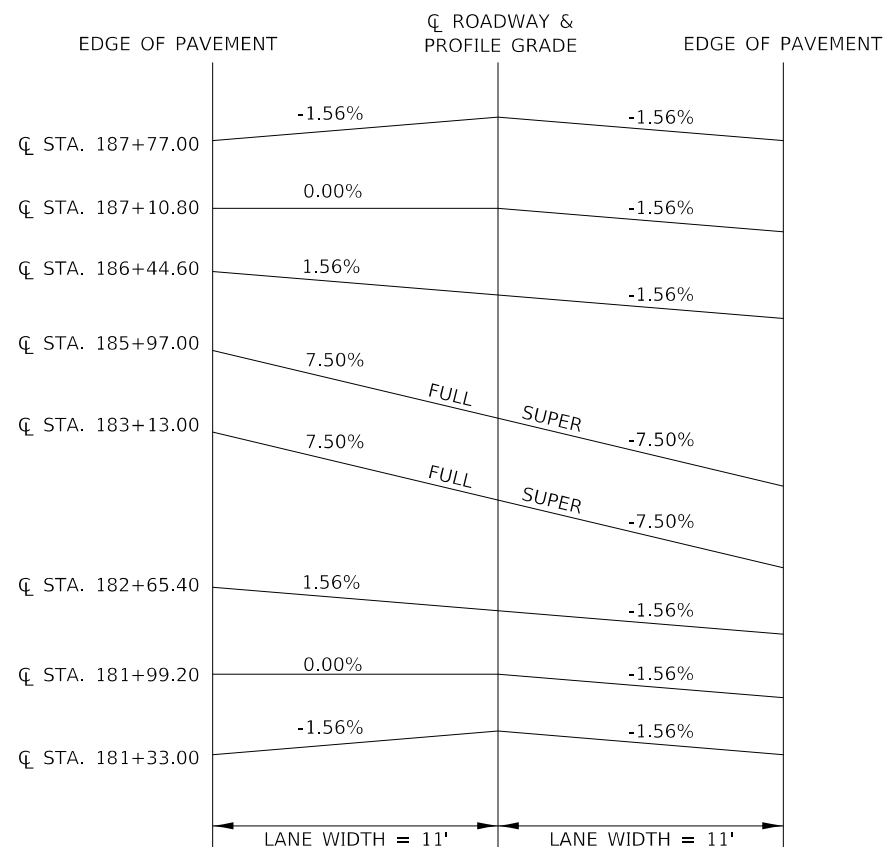
CURVE 4 SUPERELEVATION TRANSITION



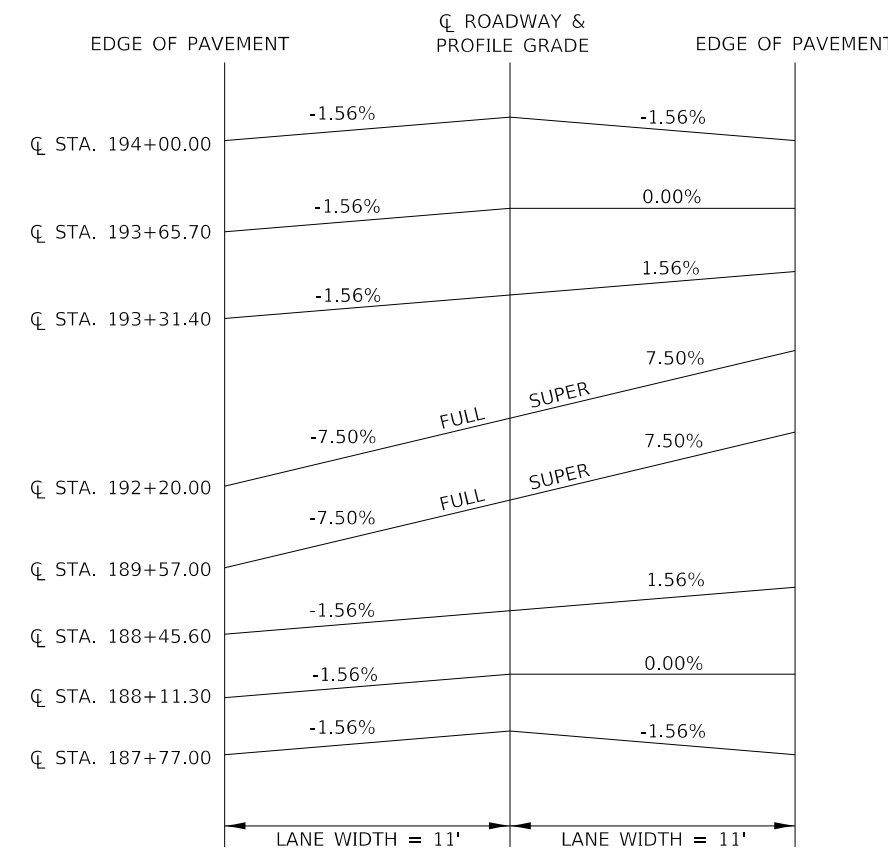
CURVE 5 SUPERELEVATION TRANSITION



CURVE 6 SUPERELEVATION TRANSITION

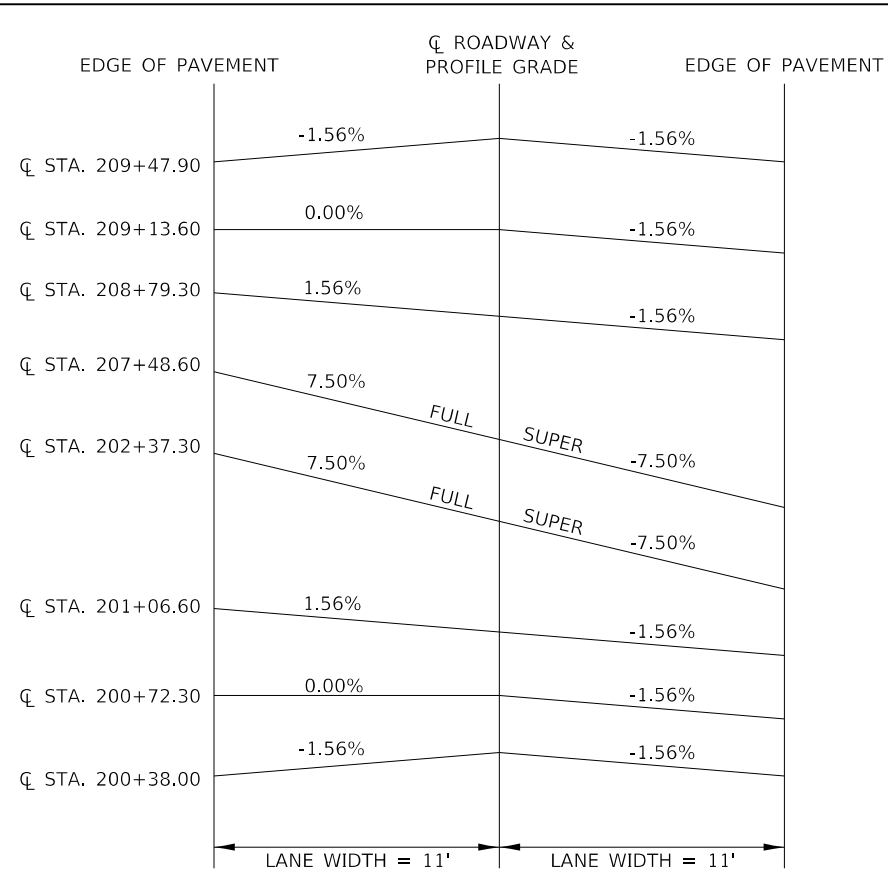


CURVE 7 SUPERELEVATION TRANSITION

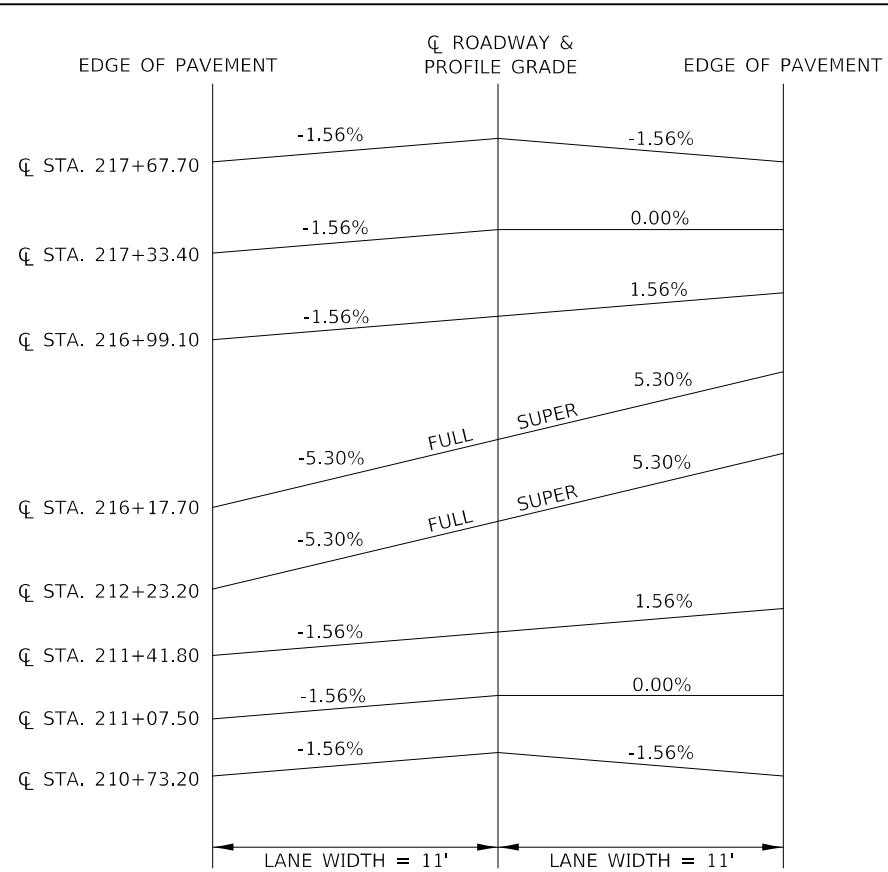


CURVE 8 SUPERELEVATION TRANSITION

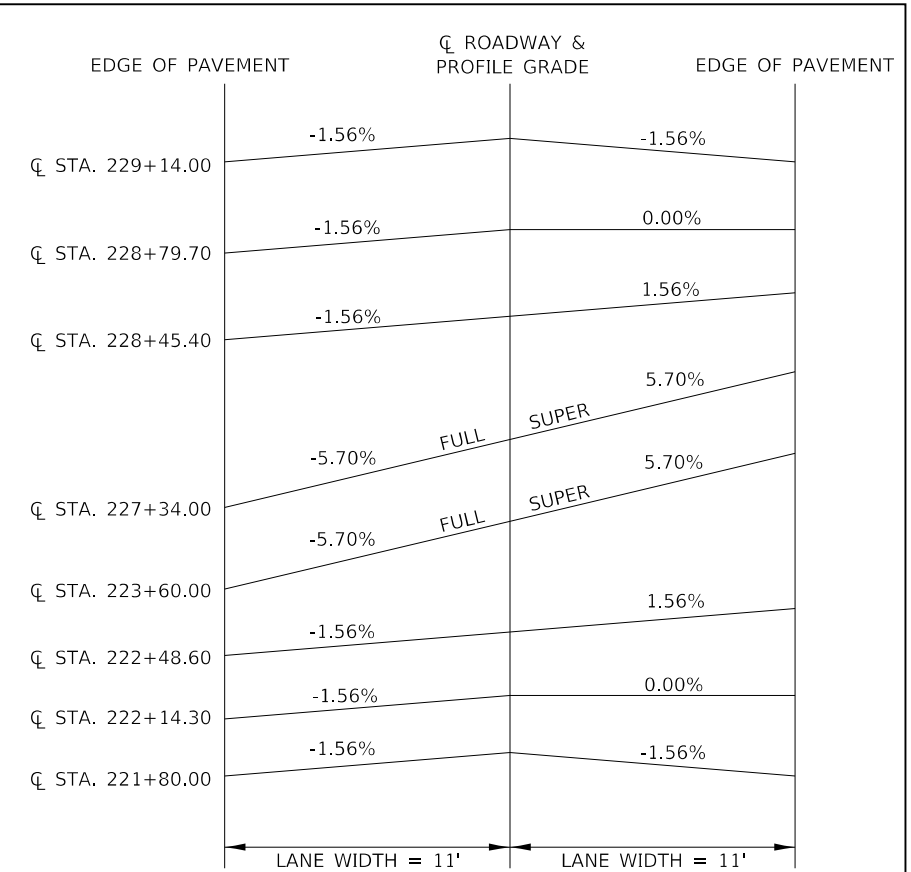
FILE NAME = 170252-shi-superlev.dgn	USER NAME = tmmk	DESIGNED - J.W.F.	REVISED - 05/30/19	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	SUPERELEVATION TRANSITIONS GRAPEVINE TRAIL		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -				945	15-00082-00-RS	ALEXANDER	39	12
PLOT DATE = 5/31/2019	CHECKED - S.W.M.	DATE - 04/26/19	REVISED -				CONTRACT NO. 99629			ILLINOIS FED. AID PROJECT UA5K(665)	
	SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.								



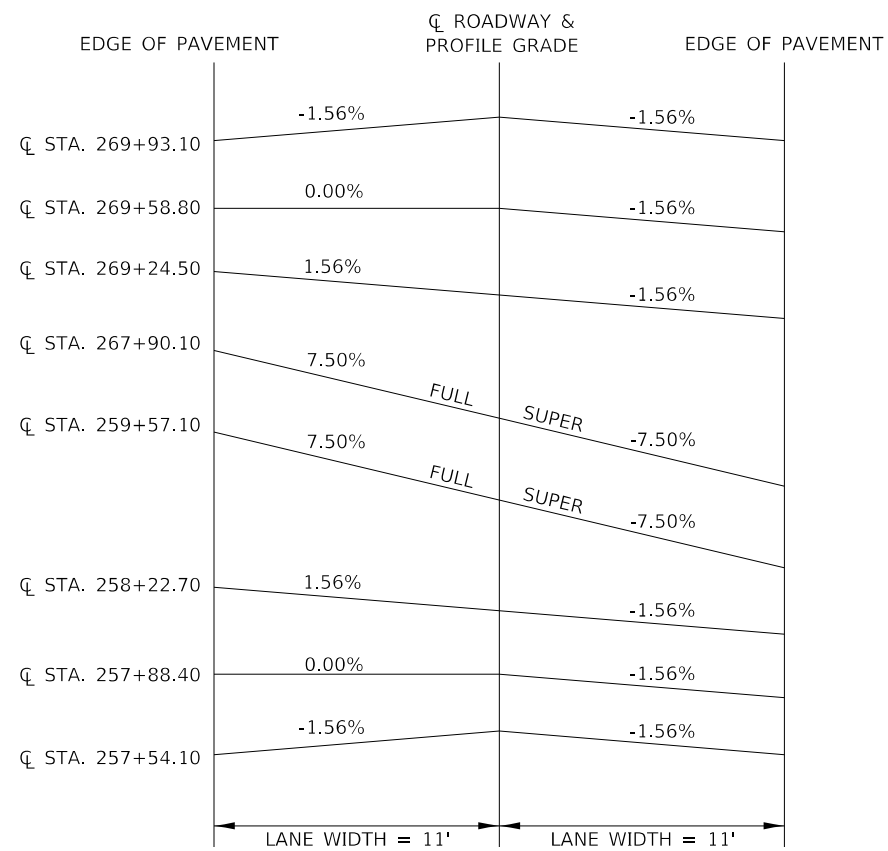
CURVE 9 SUPERELEVATION TRANSITION



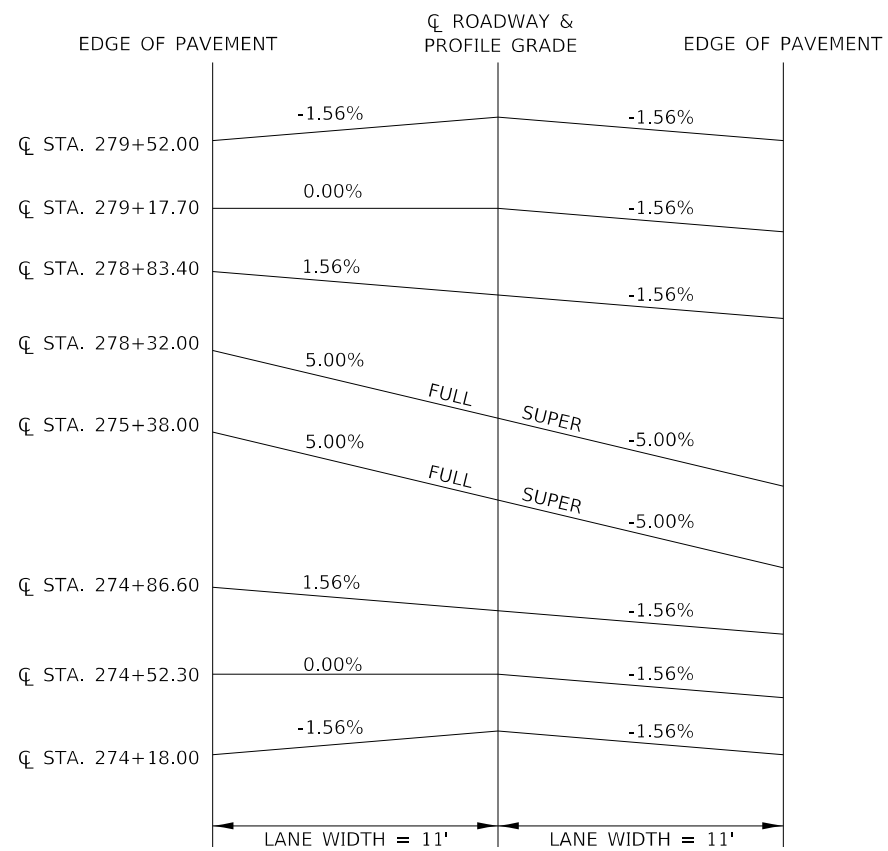
CURVE 10 SUPERELEVATION TRANSITION



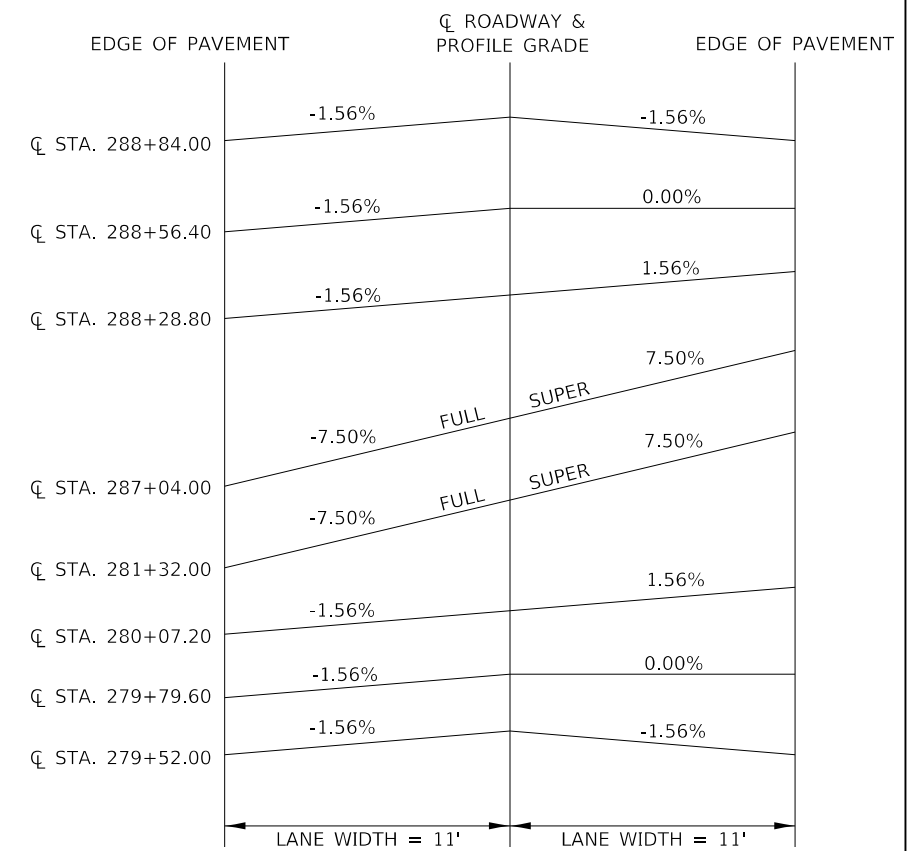
CURVE 11 SUPERELEVATION TRANSITION



CURVE 12 & 13 SUPERELEVATION TRANSITION

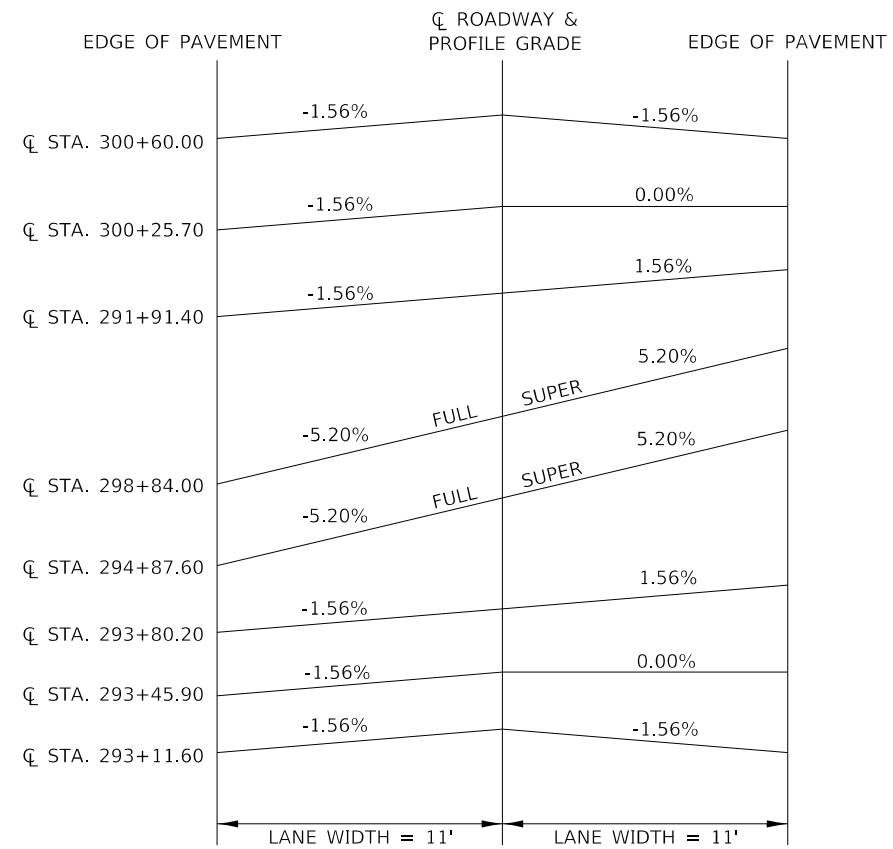


CURVE 14 SUPERELEVATION TRANSITION

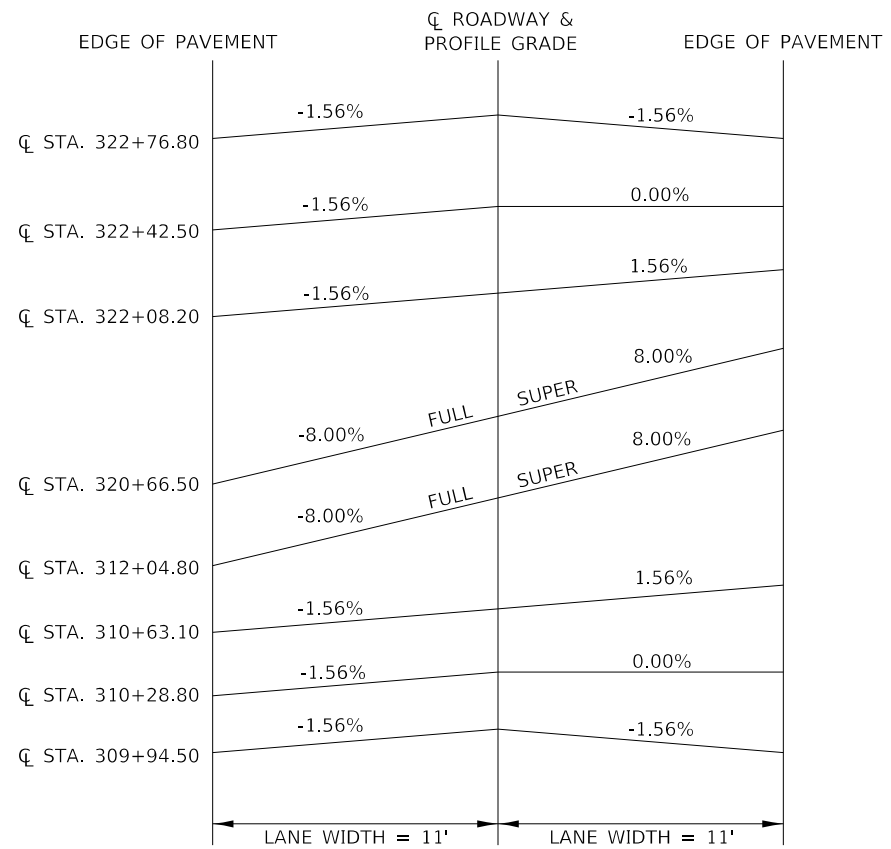


CURVE 15 & 16 SUPERELEVATION TRANSITION

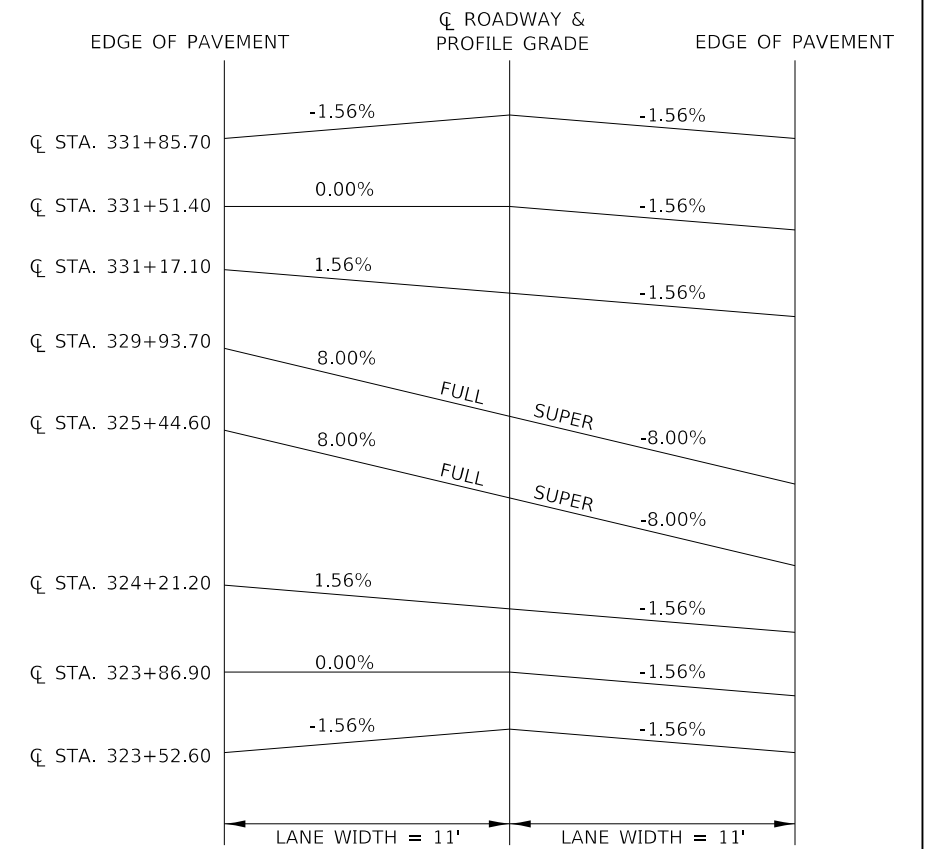
FILE NAME = 170252-shi-superlev.dgn	USER NAME = tmmk	DESIGNED - J.W.F.	REVISED - 05/30/19	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	SUPERELEVATION TRANSITIONS GRAPEVINE TRAIL	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -			945	15-00082-00-RS	ALEXANDER	39	13	
PLOT DATE = 5/31/2019	DATE - 04/26/19	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 99629					
		DATE - 04/26/19	REVISED -			ILLINOIS FED. AID PROJECT UA5K(665)					
				SCALE: NONE		SHEET NO. 2 OF 3 SHEETS		STA.		TO STA.	



CURVE 17 SUPERELEVATION TRANSITION

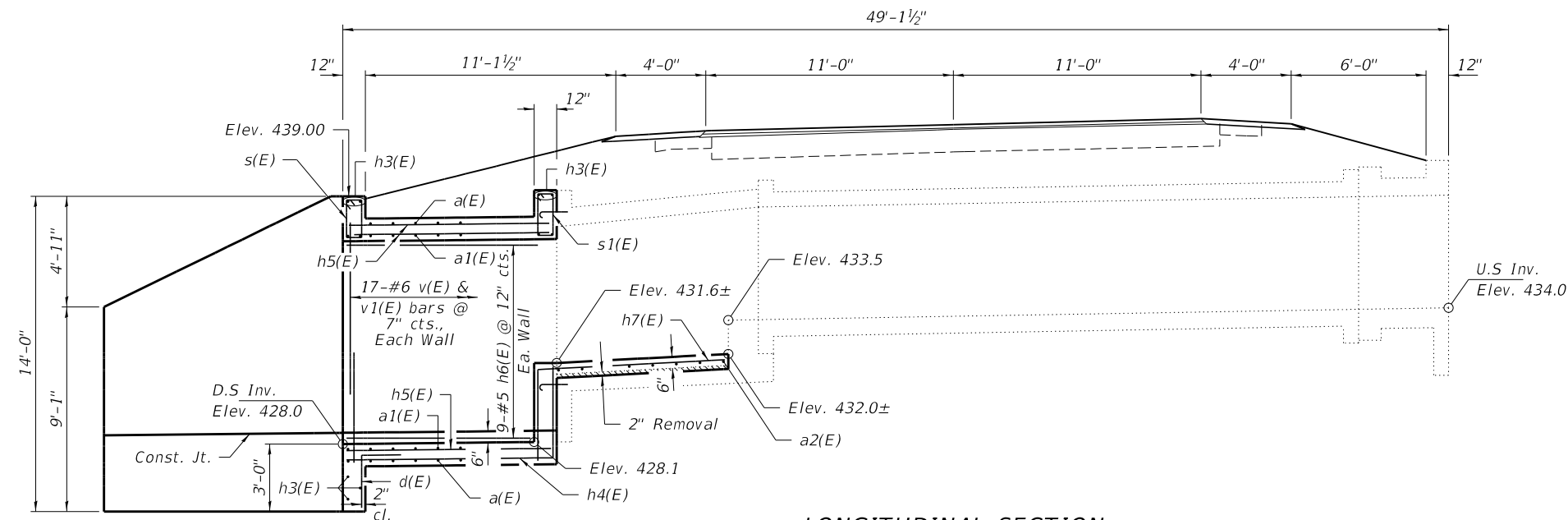


CURVE 18 SUPERELEVATION TRANSITION

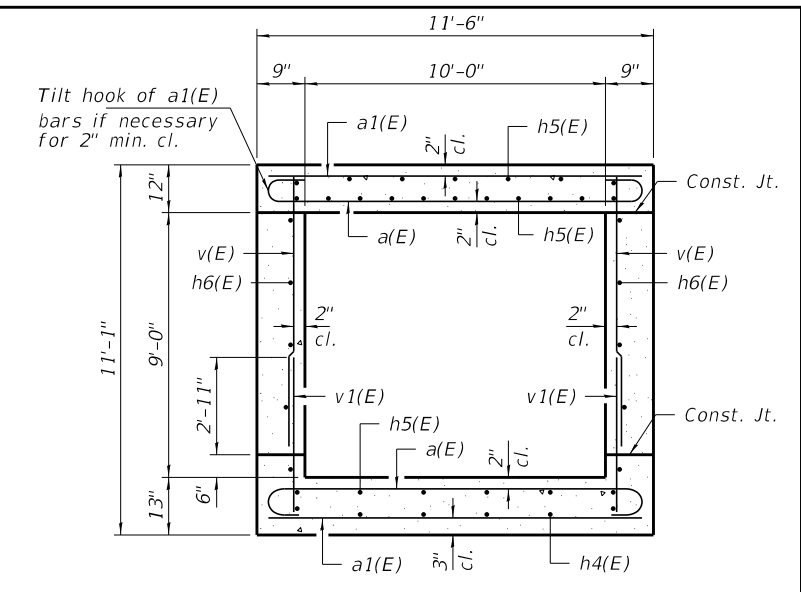


CURVE 19 SUPERELEVATION TRANSITION

FILE NAME = 170252-shi-superlev.dgn	USER NAME = tmmk	DESIGNED - J.W.F.	REVISED - 05/30/19	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	SUPERELEVATION TRANSITIONS GRAPEVINE TRAIL		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	DRAWN - T.W.K.	REVISED -	945				15-00082-00-RS	ALEXANDER	39	14	
PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -	CONTRACT NO. 99629								
PLOT DATE = 5/31/2019	DATE - 04/26/19	REVISED -	ILLINOIS FED. AID PROJECT UA5K(665)								
				SCALE: NONE		SHEET NO. 3 OF 3 SHEETS		STA. TO STA.			



LONGITUDINAL SECTION



SECTION THRU BARREL

INDEX OF STRUCTURE SHEETS

- 1-3. Culvert Details
- 4. Existing Plans

NOTES

Exposed edges shall be beveled $\frac{3}{4}$ ".
 For backfilling and embankment, see Standard Specifications, except that Granular Backfill shall be placed as shown in backfill detail for the full length of the culvert.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
 It shall be the responsibility of the Contractor to divert flow during construction in order to keep construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and shall be included in the cost of Concrete Box Culverts.
 All construction joints shall be bonded.
 Precast concrete box culverts will not be allowed.
 All reinforcement bars shall be epoxy coated.
 The barrel shall be poured monolithically with the wingwalls.
 At the Contractor's option, a longer v(E) bar may be ordered to replace the v1(E) bar. No reduction in quantities shall be made for this substitution.
 Removal of the existing riprap and concrete required to construct the proposed culvert shall be included in cost of Concrete Box Culverts. All suitable material shall be incorporated into the slope protection layout.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	20	#6	12'-6"	C
a1(E)	34	#7	11'-2"	—
a2(E)	8	#3	9'-9"	—
d(E)	10	#4	4'-1"	L
h(E)	28	#9	18'-6"	—
h1(E)	8	#9	17'-2"	—
h2(E)	24	#5	19'-2"	—
h3(E)	7	#6	11'-0"	—
h4(E)	11	#4	13'-4"	—
h5(E)	33	#6	9'-2"	—
h6(E)	18	#5	9'-2"	—
h7(E)	11	#4	12'-5"	L
s(E)	11	#4	5'-7"	□
s1(E)	11	#4	5'-11"	□
v(E)	34	#6	9'-8"	—
v1(E)	34	#6	4'-1"	—
v2(E)	60	#6	13'-6"	—
Stone Dumped Riprap, Class A4 (Special)			Ton	110
Reinf. Bars, Epoxy Coated			Pounds	6,850
Expansion Bolts $\frac{3}{4}$ "			Each	19
Concrete Box Culverts			Cu. Yd.	28.5
Porous Granular Embankment, Special			Ton	140

DESIGN STRESSES

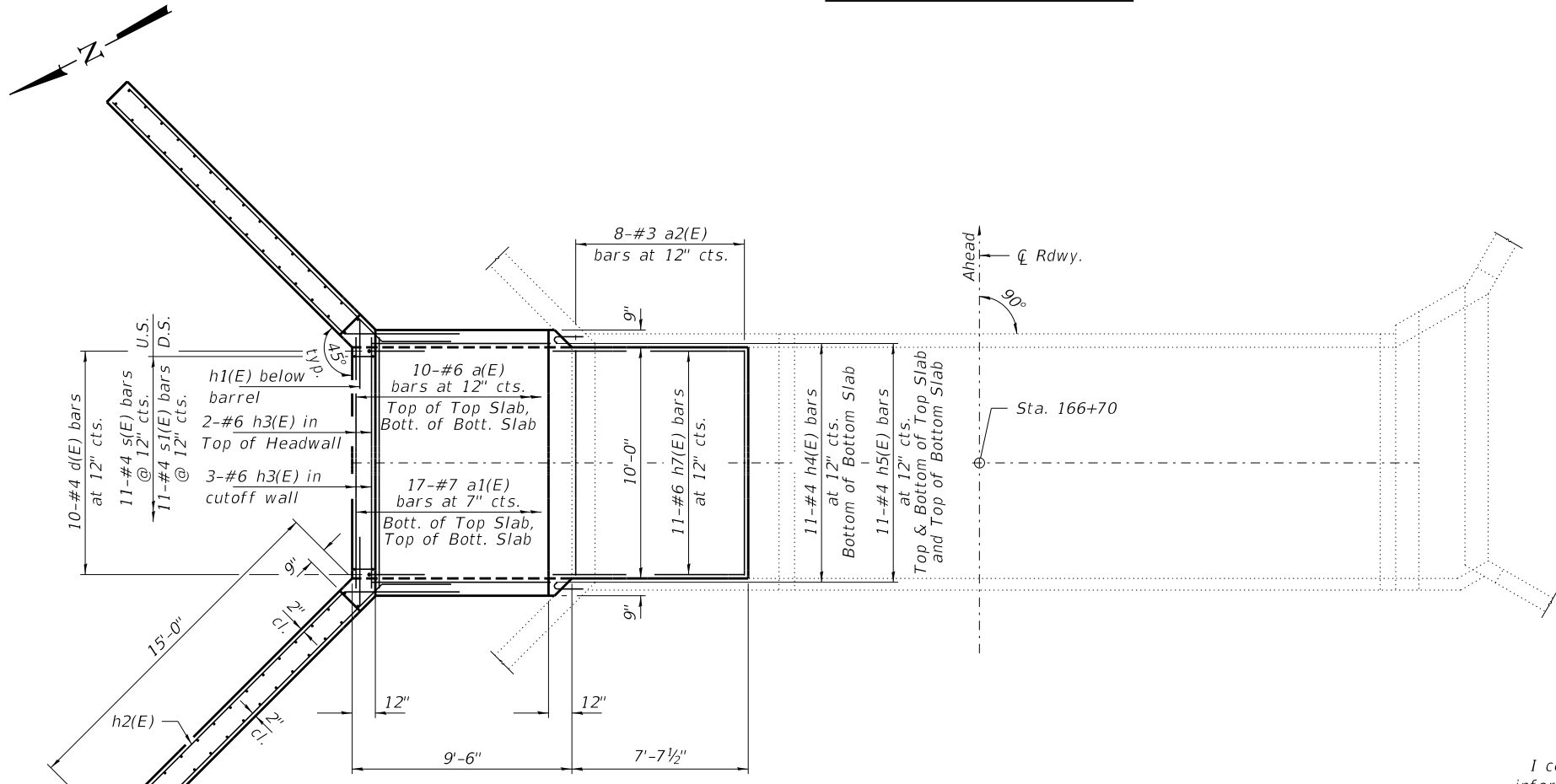
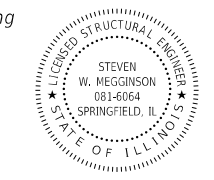
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

LOADING HL-93

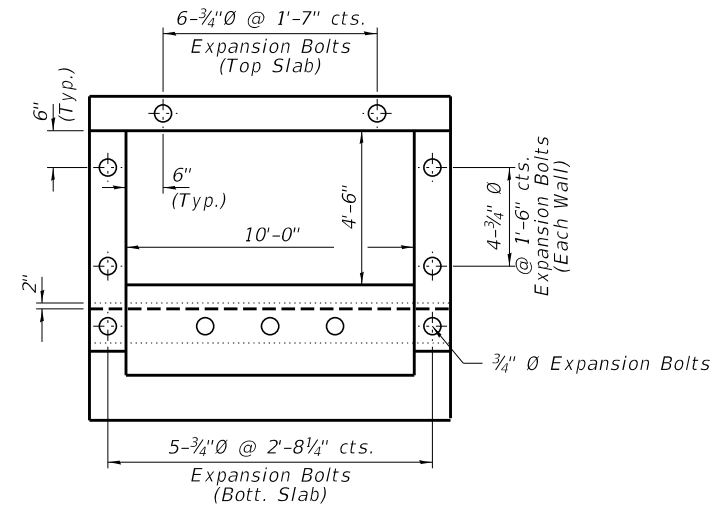
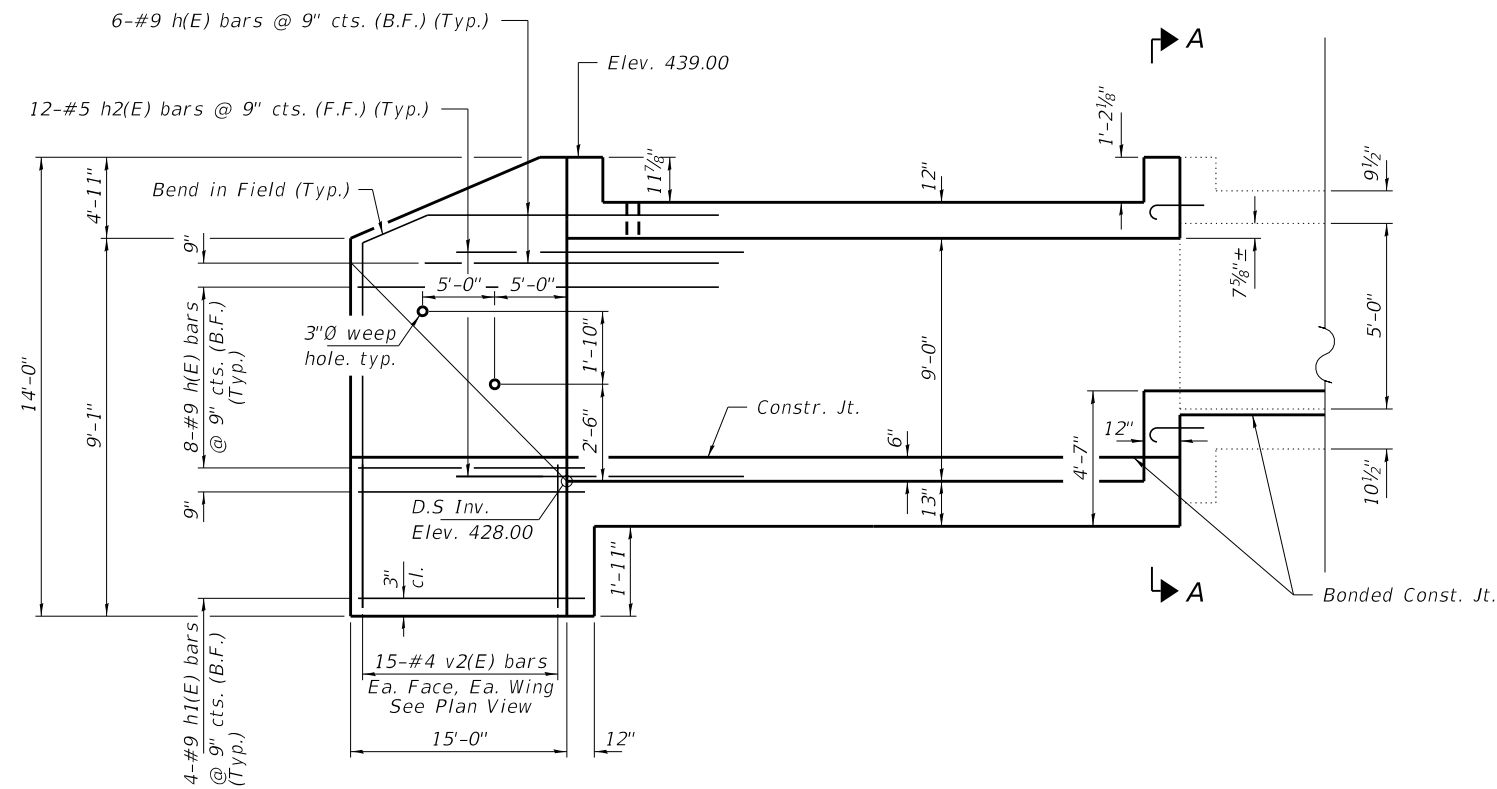
Design Specifications: 2018 AASHTO LRFD with all interims.
 50#/Sq. Ft. included in dead load for future wearing surface.

I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Specifications."

Steven W. Megginson 04/26/2019
 ILLINOIS STRUCTURAL ENGINEER NO. 081-6064

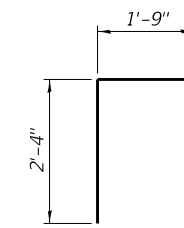


PLAN

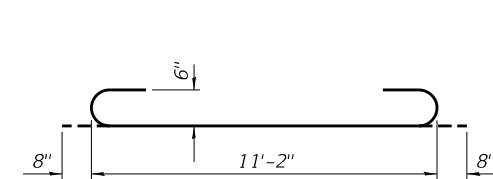


**SECTION A-A
 SHOWING EXPANSION BOLTS**

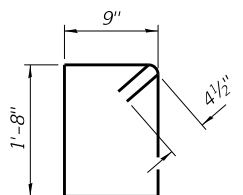
NORTHWEST AND NORTHEAST WINGWALL ELEVATION



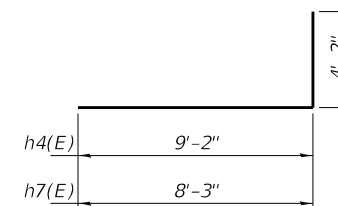
BAR d(E)



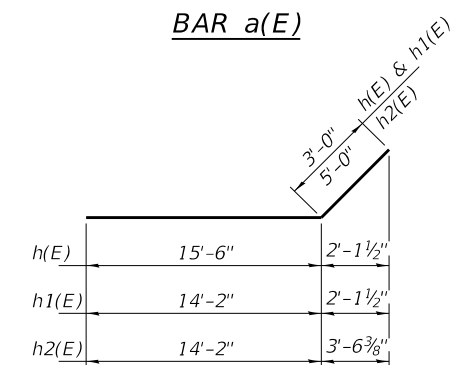
BAR a(E)



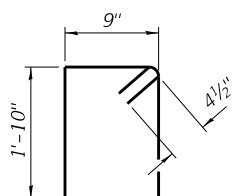
BAR s(E)



BARS h4(E) & h7(E)

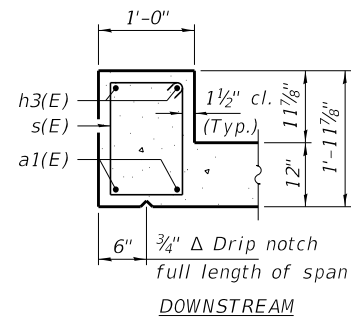
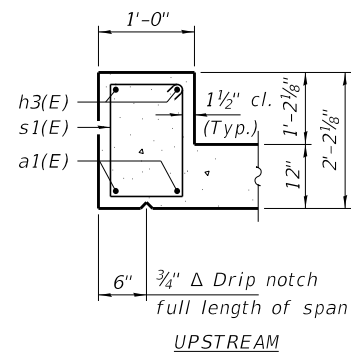


BARS h(E), h1(E) & h2(E)



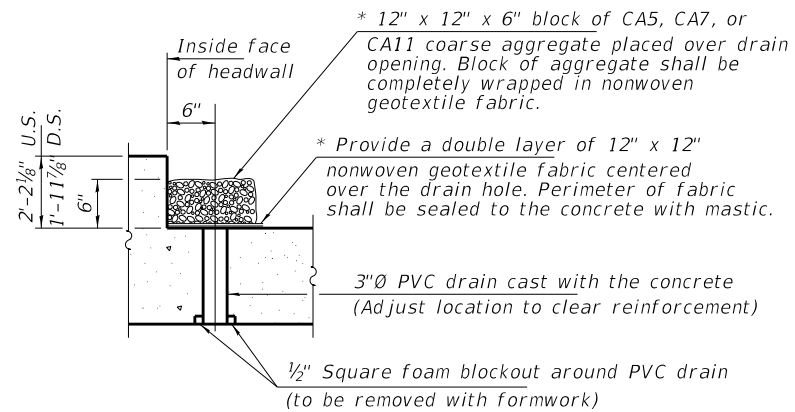
BAR s1(E)

FILE NAME = 170252-shi-culvert.dgn	USER NAME = ilmk	DESIGNED - P.S.	REVISED - 05/30/19	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	CULVERT DETAILS CULVERT STA. 166+70	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			945	15-00082-00-RS	ALEXANDER	39	16	
PLOT DATE = 5/31/2019	DRAWN - R.D.H.	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 99629					
						ILLINOIS FED. AID PROJECT UA5K(665)					



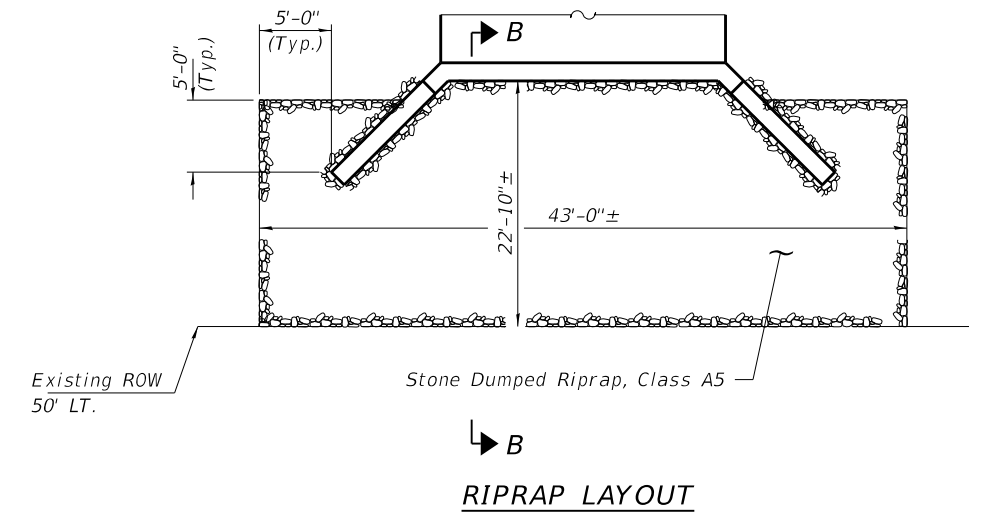
SECTION THRU HEADWALL

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

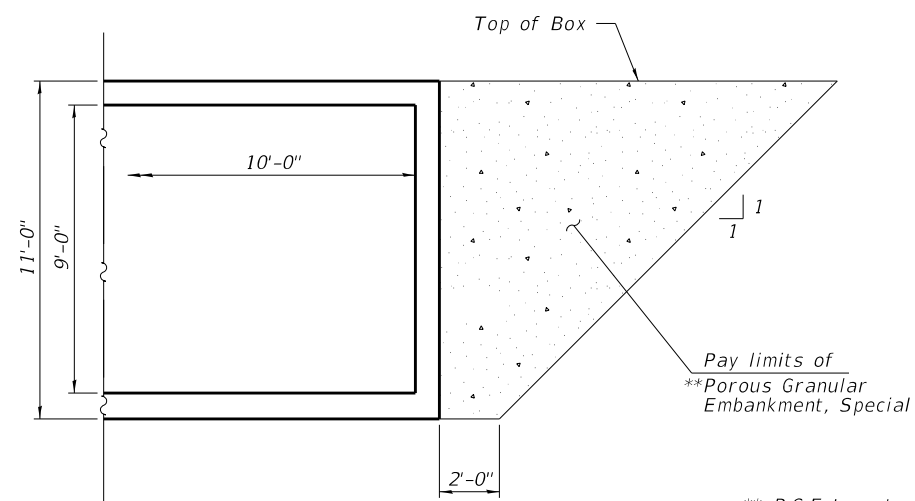


DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for Concrete Box Culverts.)

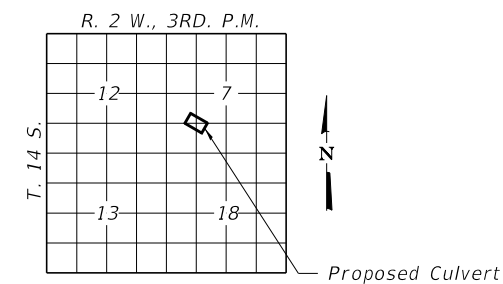


RIPRAP LAYOUT

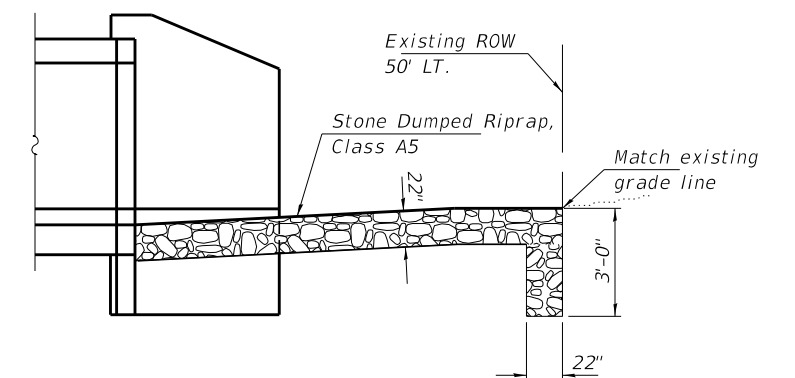


BACKFILL DETAIL

** P.G.E to extend the full length of culvert and wings. 18" earth cap to be placed at end of wings to cover the P.G.E.

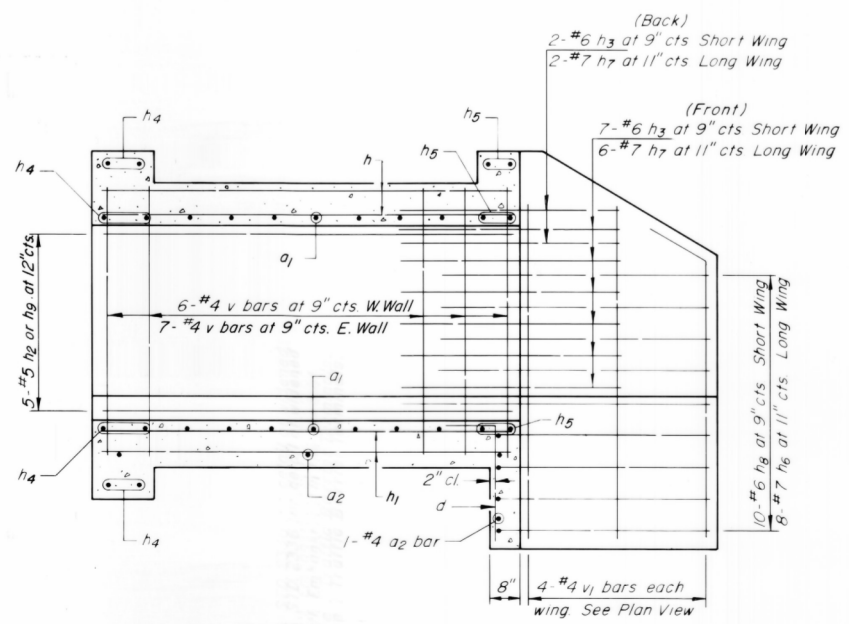


LOCATION SKETCH

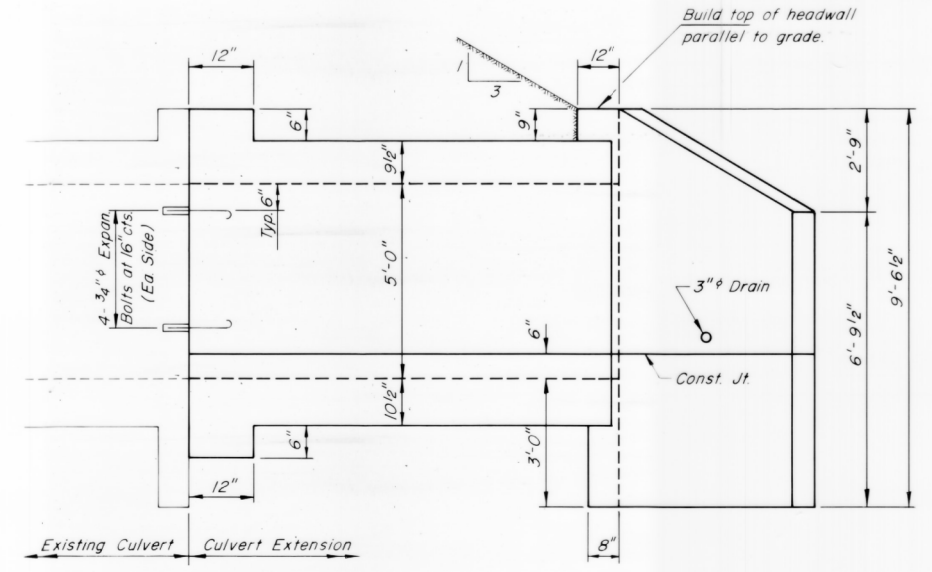


SECTION B-B

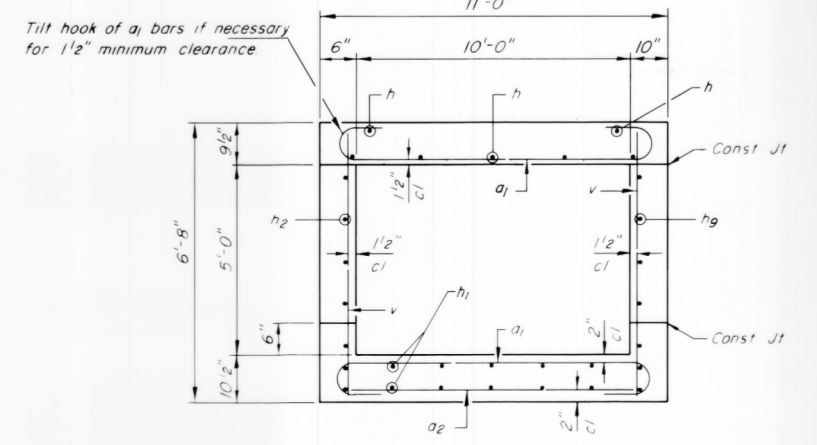
FILE NAME = 170252-shi-culvert.dgn	USER NAME = ilmk	DESIGNED - P.S.	REVISED - 05/30/19	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	CULVERT DETAILS CULVERT STA. 166+70	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			945	15-00082-00-RS	ALEXANDER	39	17	
	PLOT DATE = 5/31/2019	DRAWN - R.D.H.	REVISED -			CONTRACT NO. 99629					
		CHECKED - S.W.M.	REVISED -			SHEET NO. 3 OF 4 SHEETS					



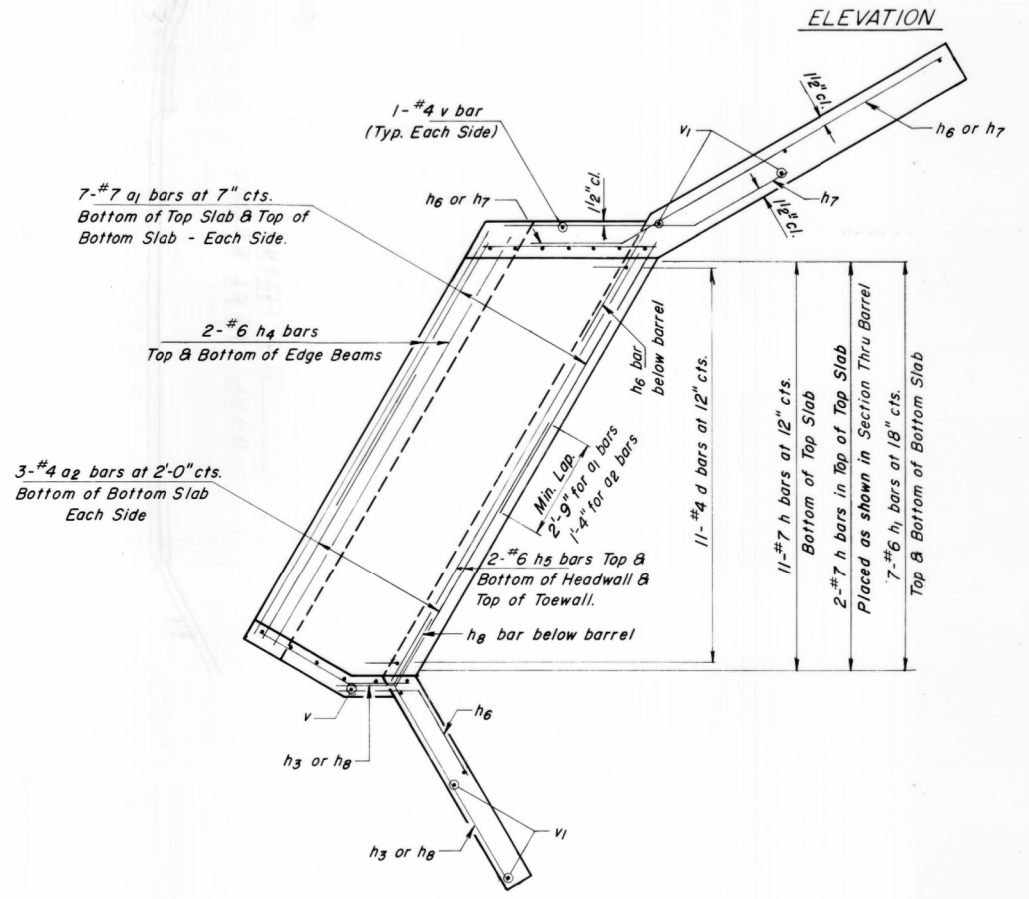
SHOWING REINFORCEMENT



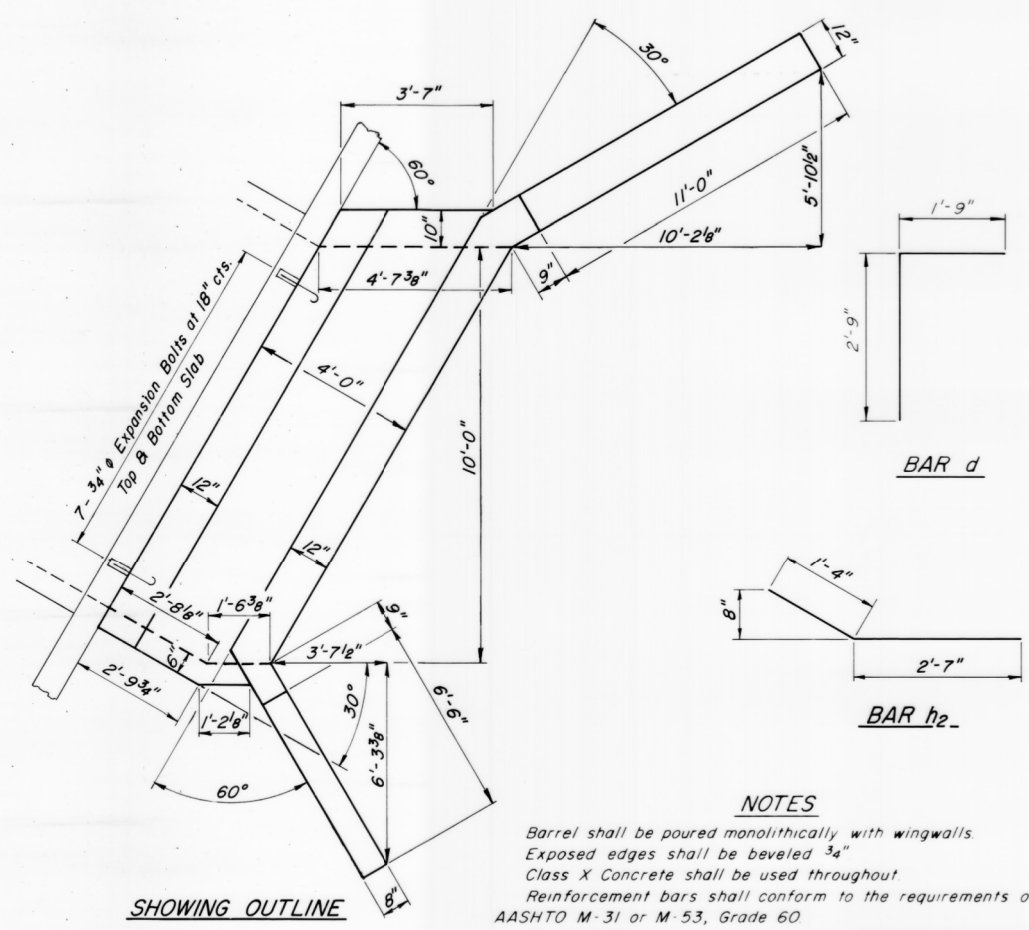
SHOWING OUTLINE



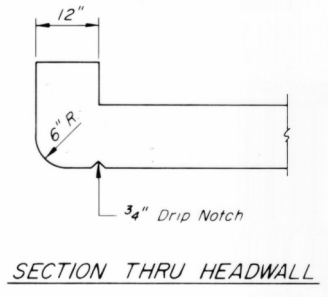
SECTION THRU BARREL
(Looking Downstream)



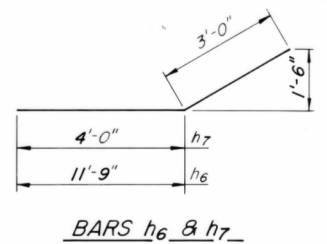
SHOWING REINFORCEMENT



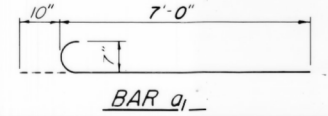
SHOWING OUTLINE



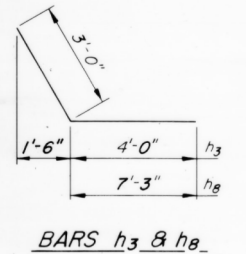
SECTION THRU HEADWALL



BARs h6 & h7



BAR a1



BARs h3 & h8

NOTES
 Barrel shall be poured monolithically with wingwalls.
 Exposed edges shall be beveled 3/4"
 Class X Concrete shall be used throughout.
 Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53, Grade 60.
 For backfilling and embankment see Standard Specifications.
 Expansion bolts shall consist of self drilling expansion shields and 3/4" hooked bolts. Bolts shall extend a minimum of 9" into new concrete.

DESIGN STRESSES

fy = 60,000 psi
 fc = 3,500 psi

LOADING HS20-44 & ALT.

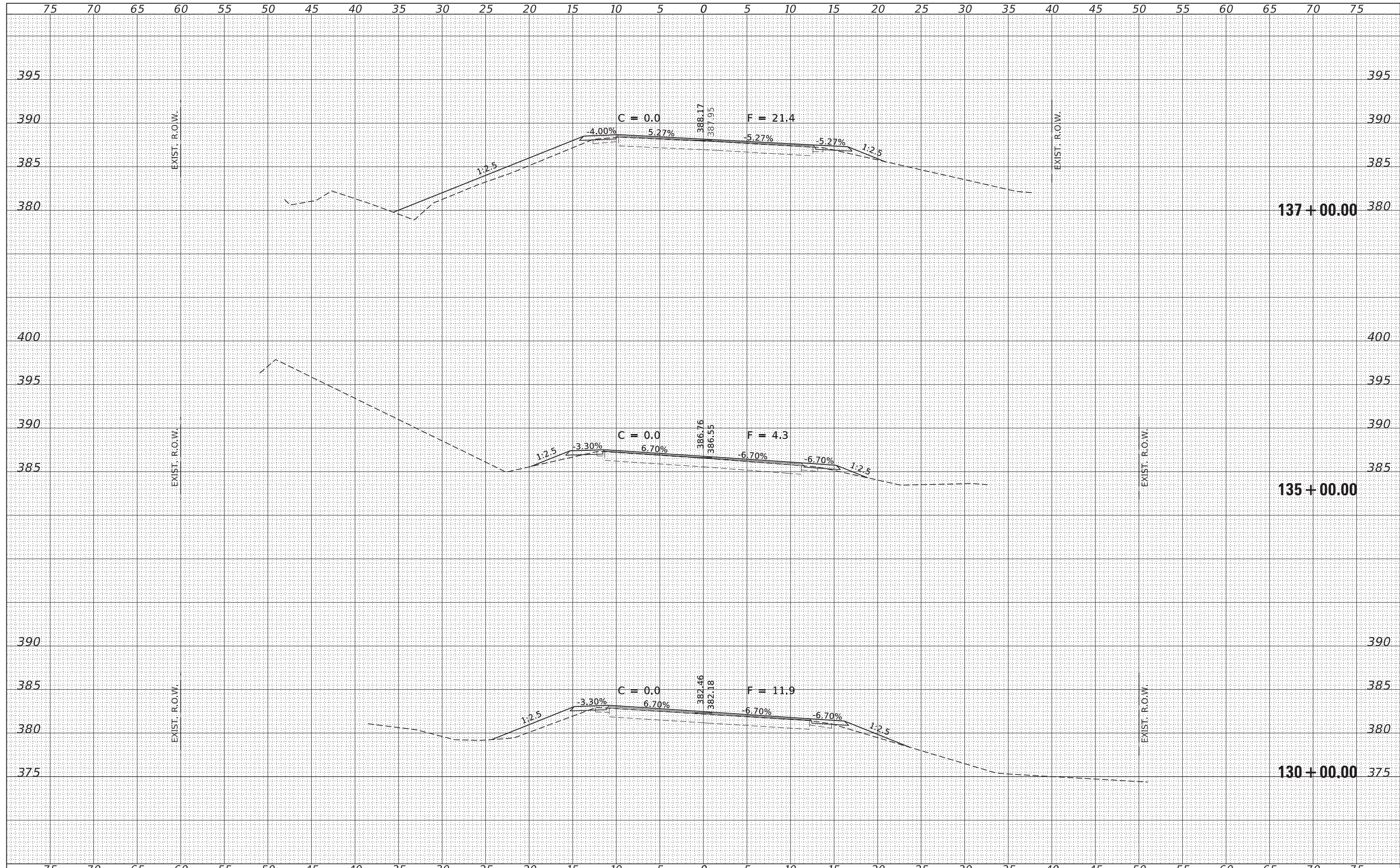
BILL OF MATERIAL

Bar	No.	Size	Length
a1	28	#7	7'-10"
a2	8	#4	6'-7"
d	11	#4	4'-6"
h	13	#7	4'-5"
h1	14	#6	4'-5"
h2	5	#5	3'-11"
h3	18	#6	7'-0"
h4	8	#6	10'-6"
h5	6	#6	12'-2"
h6	16	#7	14'-9"
h7	16	#7	7'-0"
h8	20	#6	10'-3"
h9	5	#5	4'-3"
v	15	#4	6'-1"
v1	8	#4	8'-6"
Class X Concrete			Cu Yds 10.7
Box Culverts			
Reinforcement Bars			Lbs 2316
Expansion Bolts			Each 22

10'x5' BOX CULVERT EXTENSION
 STATION 166+70 RIGHT
 FAS ROUTE 945
 SECTION 86-00060-00-RS
 PROJECT NO. MA-SR-945 (104)
 ALEXANDER COUNTY

DATE	
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PLOTTED	
TEMPLATE	
AREAS	
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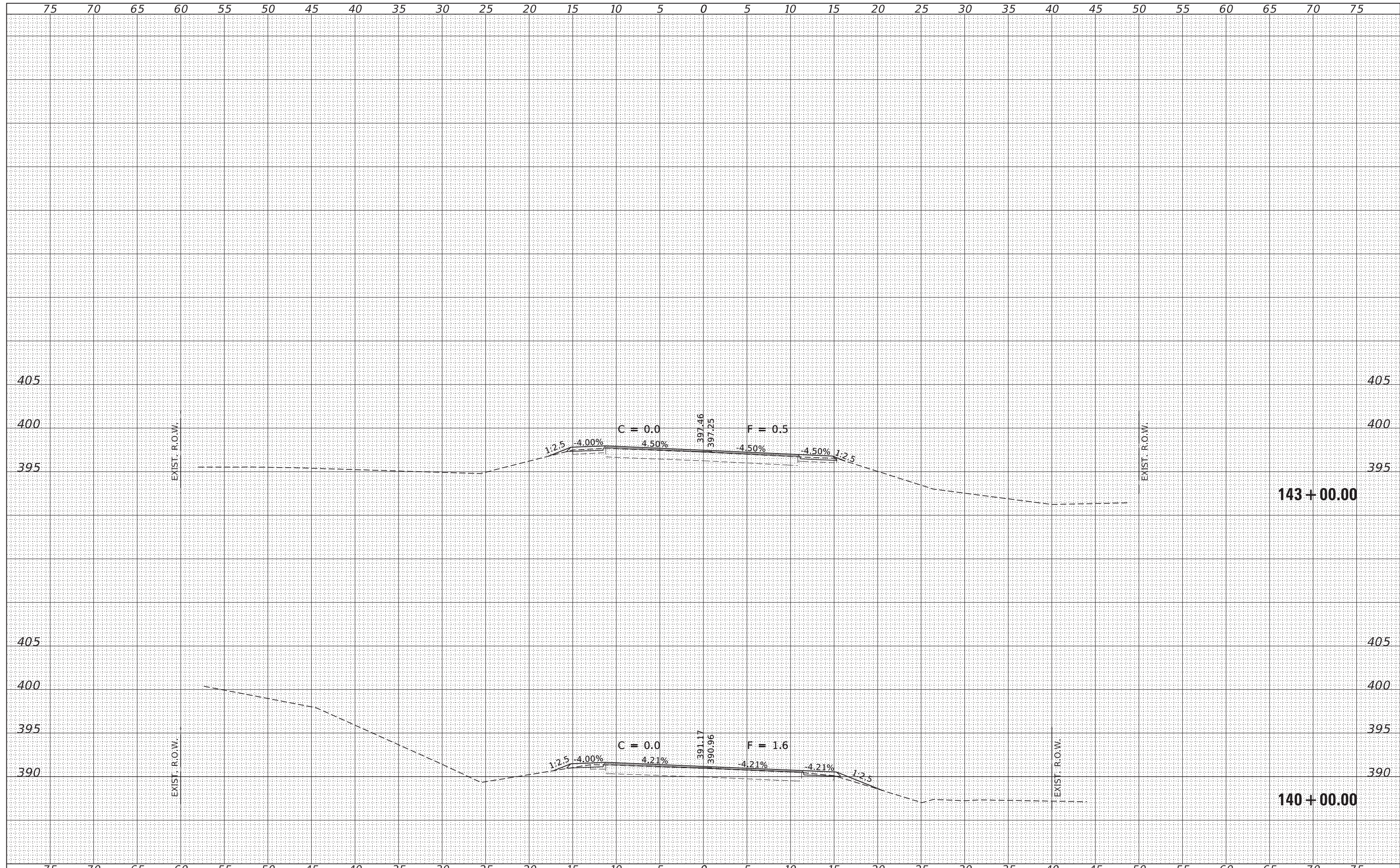
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FILE NAME = 170252-shl-xssht-crt1rks.dgn	USER NAME = tmlk	DESIGNED - J.V.F.	REVISED -	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.	DRAWN - T.W.K.	REVISED -			945	15-00082-00-RS	ALEXANDER	39	19			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958	CHECKED - S.W.M.	REVISED -			CONTRACT NO.							
PLOT SCALE = \$SCALES	DATE - 05/30/19	REVISED -			SCALE: 5H:5V	SHEET NO.	OF	SHEETS	STA. 130+00.00	TO STA.	137+00.00	ILLINOIS FED. AID PROJECT

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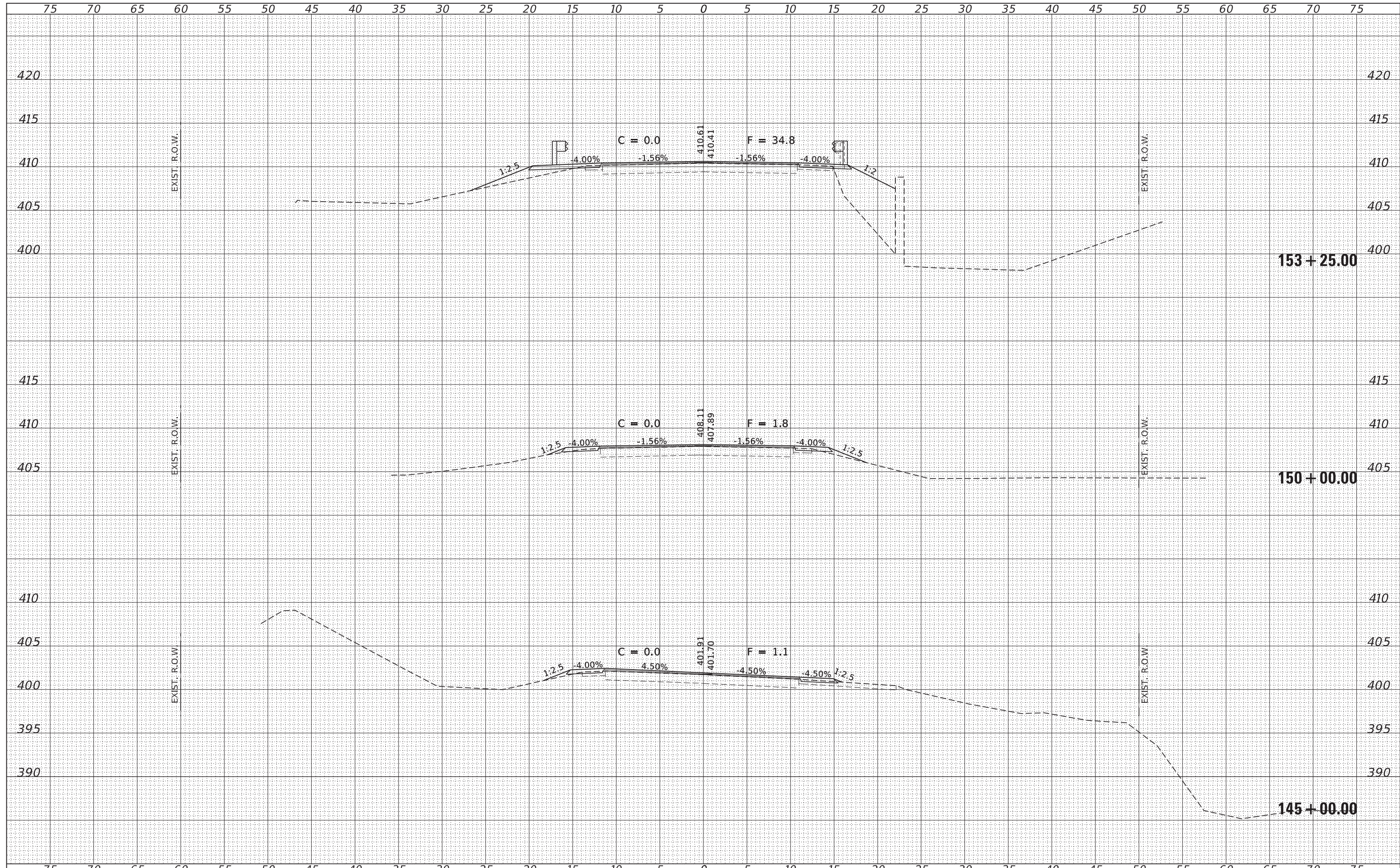
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AREAS	
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FILE NAME = 170252-shl-xssh-criterla.dgn	USER NAME = tmk	DESIGNED - J.W.F.	REVISD -	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISD -		945	15-00082-00-RS	ALEXANDER	39	20				
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.000958	PLOT SCALE = \$SCALES	CHECKED - S.W.M.	REVISD -		SCALE: 5H:5V		SHEET NO.	OF	SHEETS	STA. 140+00.00 TO STA. 143+00.00	CONTRACT NO.		
	PLOT DATE = 5/31/2019	DATE - 05/30/19	REVISD -		ILLINOIS FED. AID PROJECT								

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NOTE BOOK	
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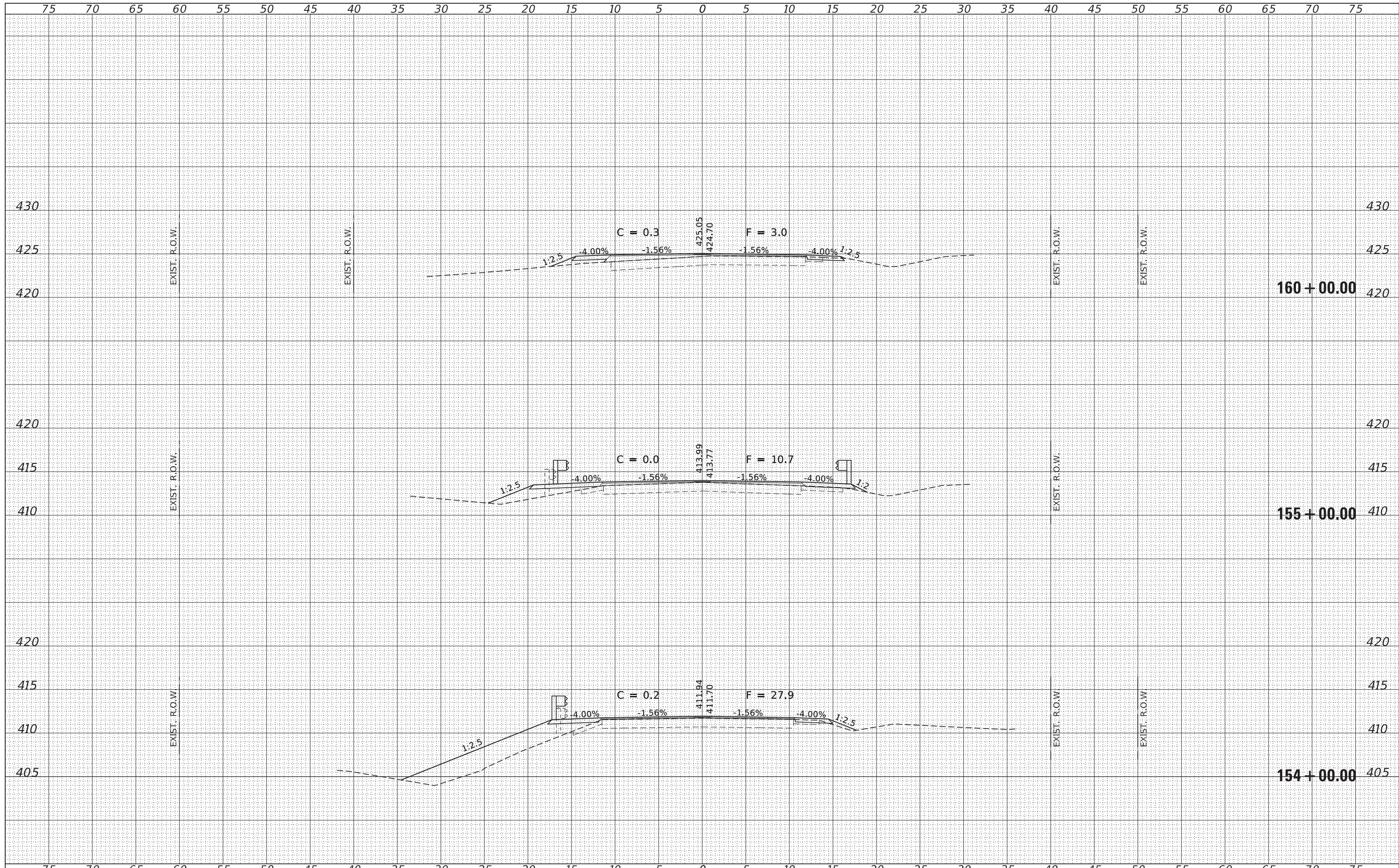
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NOTE BOOK	
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FILE NAME = 170252-shl-vssht-clt1rta.dgn	USER NAME = tmlk	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		945	15-00082-00-RS	ALEXANDER	39	21			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.000958		CHECKED - S.W.M.	REVISED -		CONTRACT NO.							
		DATE - 05/30/19	REVISED -		SCALE: 5H:5V	SHEET NO.	OF SHEETS	STA. 145+00.00 TO STA. 153+25.00	ILLINOIS FED. AID PROJECT			

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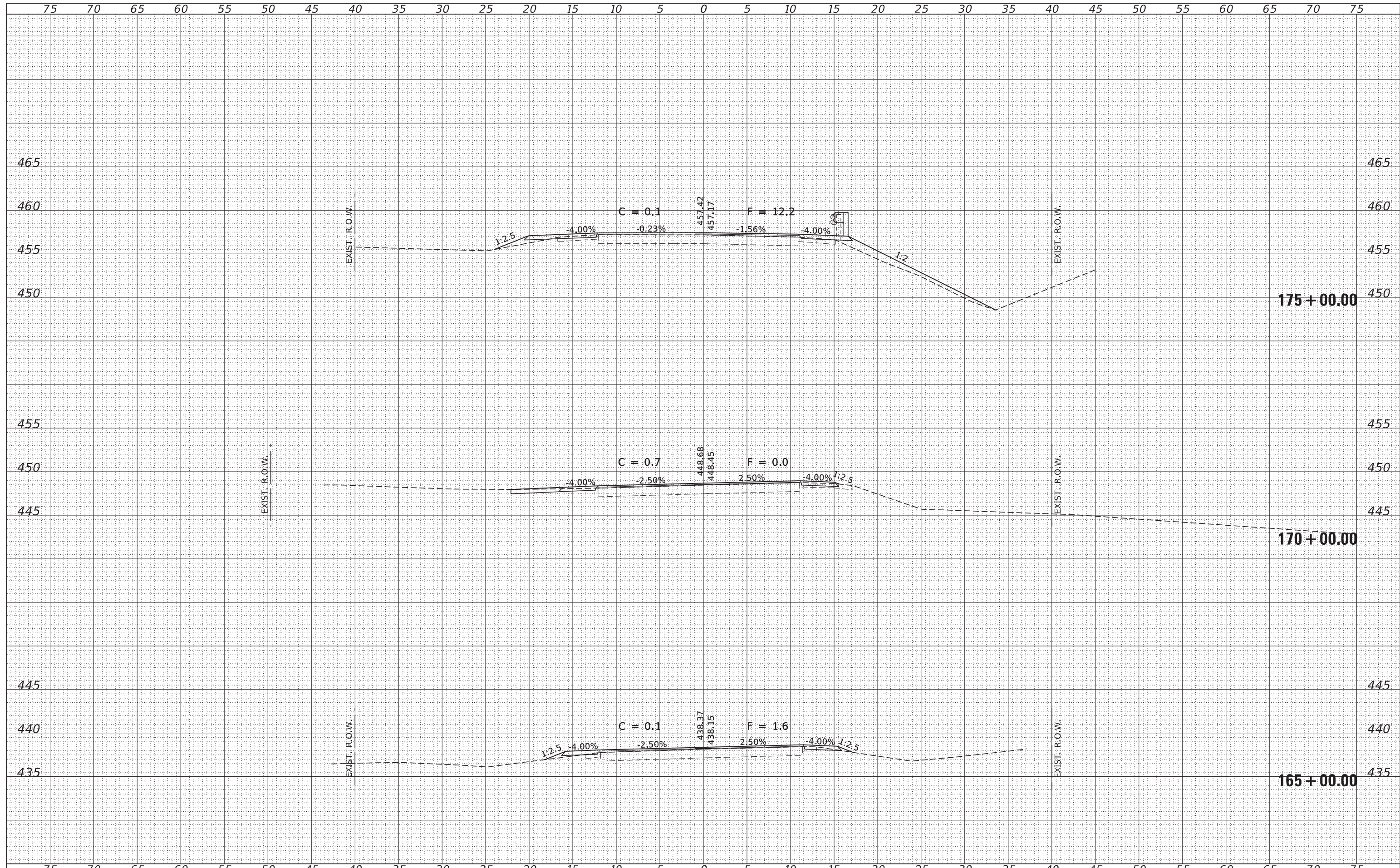
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62711 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.009958	PLOT SCALE = \$Scales	DRAWN - T.W.K.	REVISED -			945	15-00082-00-RS	ALEXANDER	39	22
PLOT DATE = 5/31/2019	DATE - 05/30/19	CHECKED - S.W.M.	REVISED -	SCALE: 5H:5V		SHEET NO. OF SHEETS		STA. 154+00.00 TO STA. 160+00.00		ILLINOIS FED. AID PROJECT

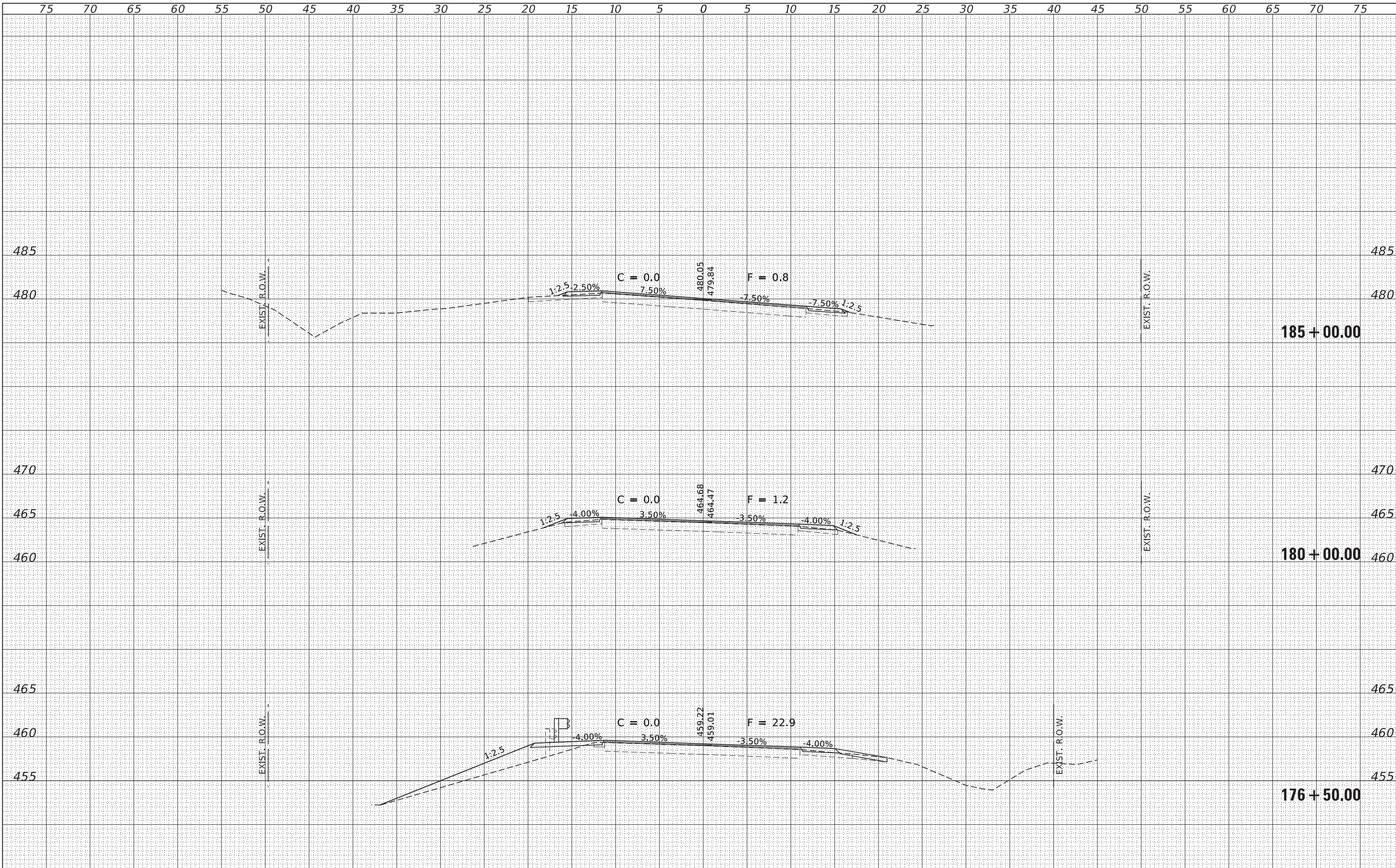
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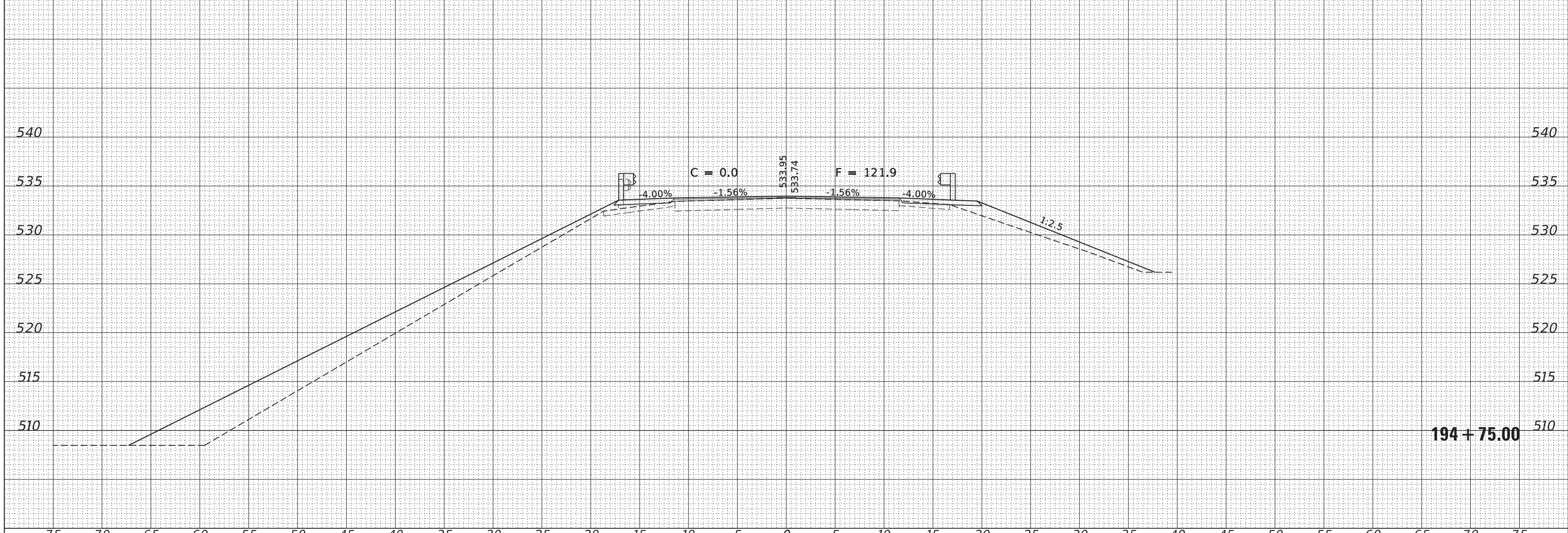
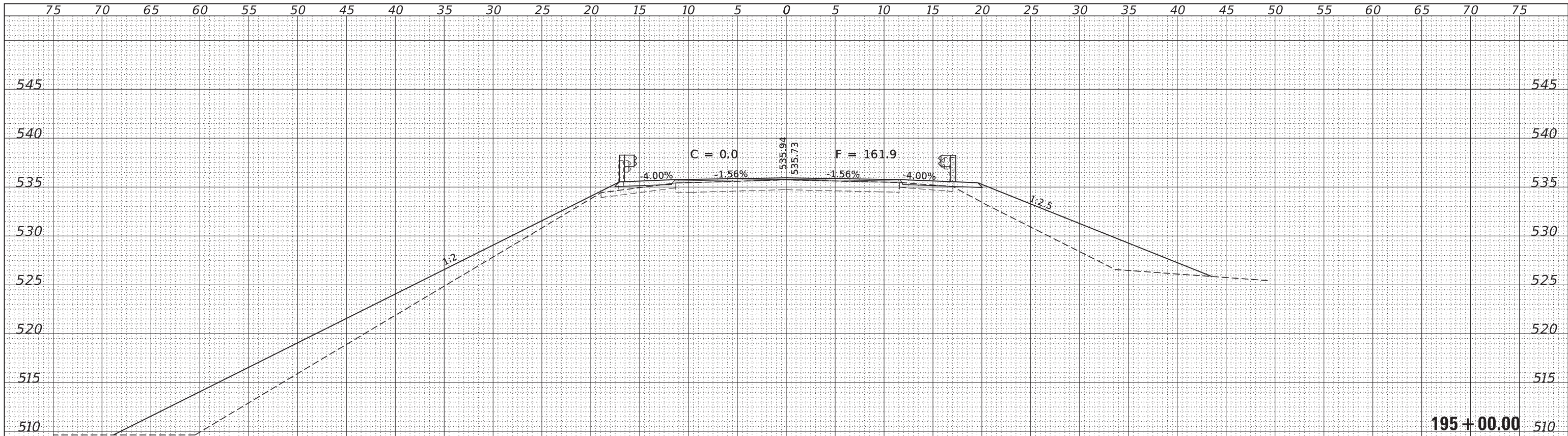
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62704 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.000958	PLOT SCALE = \$Scales	DRAWN - T.W.K.	REVISED -		945	15-00082-00-RS	ALEXANDER	39	24			
PLOT DATE = 5/31/2019	DATE - 05/30/19	CHECKED - S.W.M.	REVISED -		SCALE: 5H:5V	SHEET NO.	OF SHEETS	STA. 176+50.00 TO STA. 185+00.00	CONTRACT NO.	ILLINOIS FED. AID PROJECT		
		REVISOR -	REVISED -									

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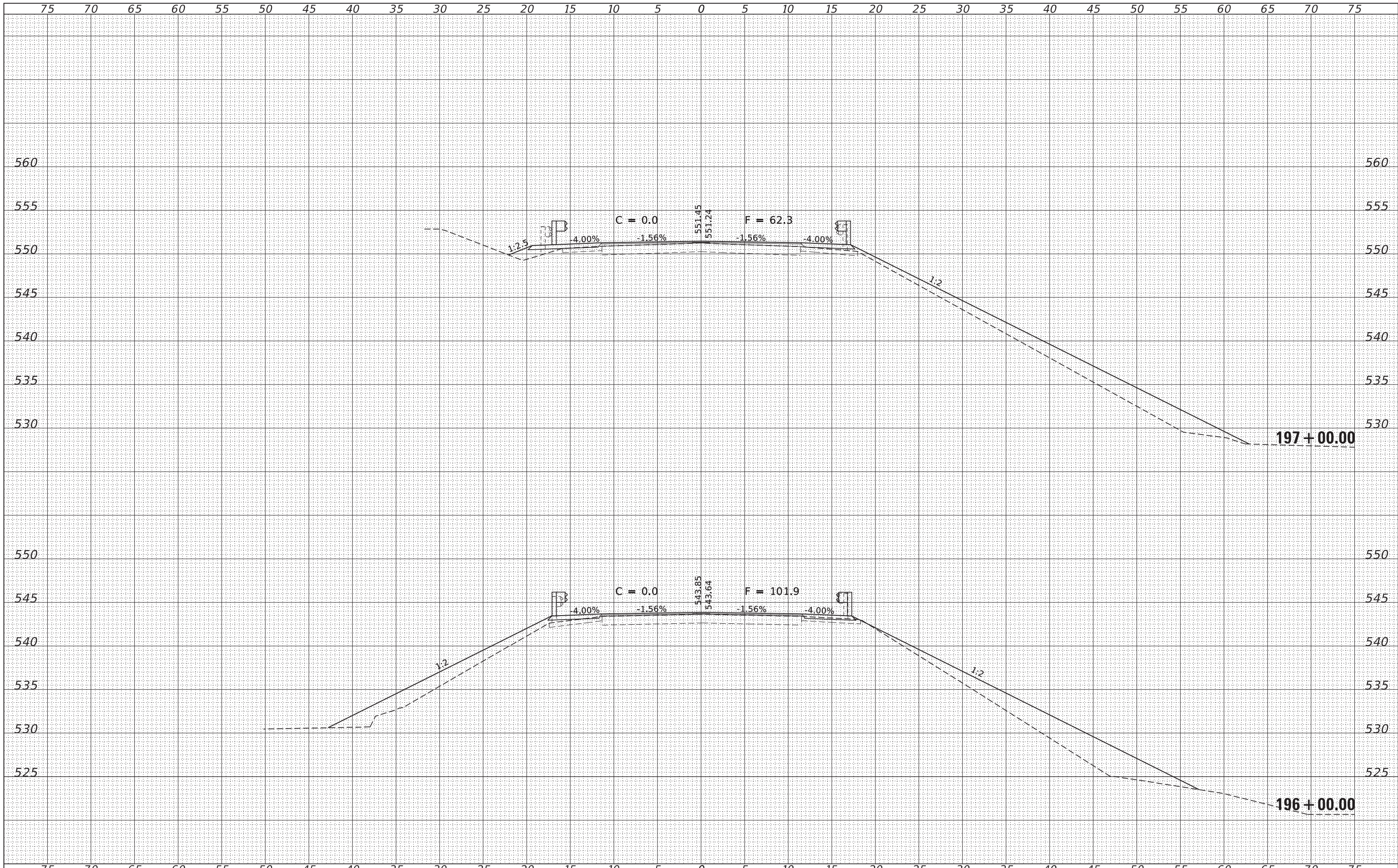
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FILE NAME = 170252-shl-xssht-crtierk.dgn	USER NAME = tmlk	DESIGNED - J.V.F.	REVISD -	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958	PLOT SCALE = \$SCALES	DRAWN - T.W.K.	REVISD -		945	15-00082-00-RS	ALEXANDER	39	26			
PLOT DATE = 5/31/2019	DATE - 05/30/19	CHECKED - S.W.M.	REVISD -		SCALE: 5H:5V			SHEET NO.	OF SHEETS	STA. 194+75.00 TO STA. 195+00.00	CONTRACT NO.	
		DATE - 05/30/19	REVISD -							ILLINOIS FED. AID PROJECT		

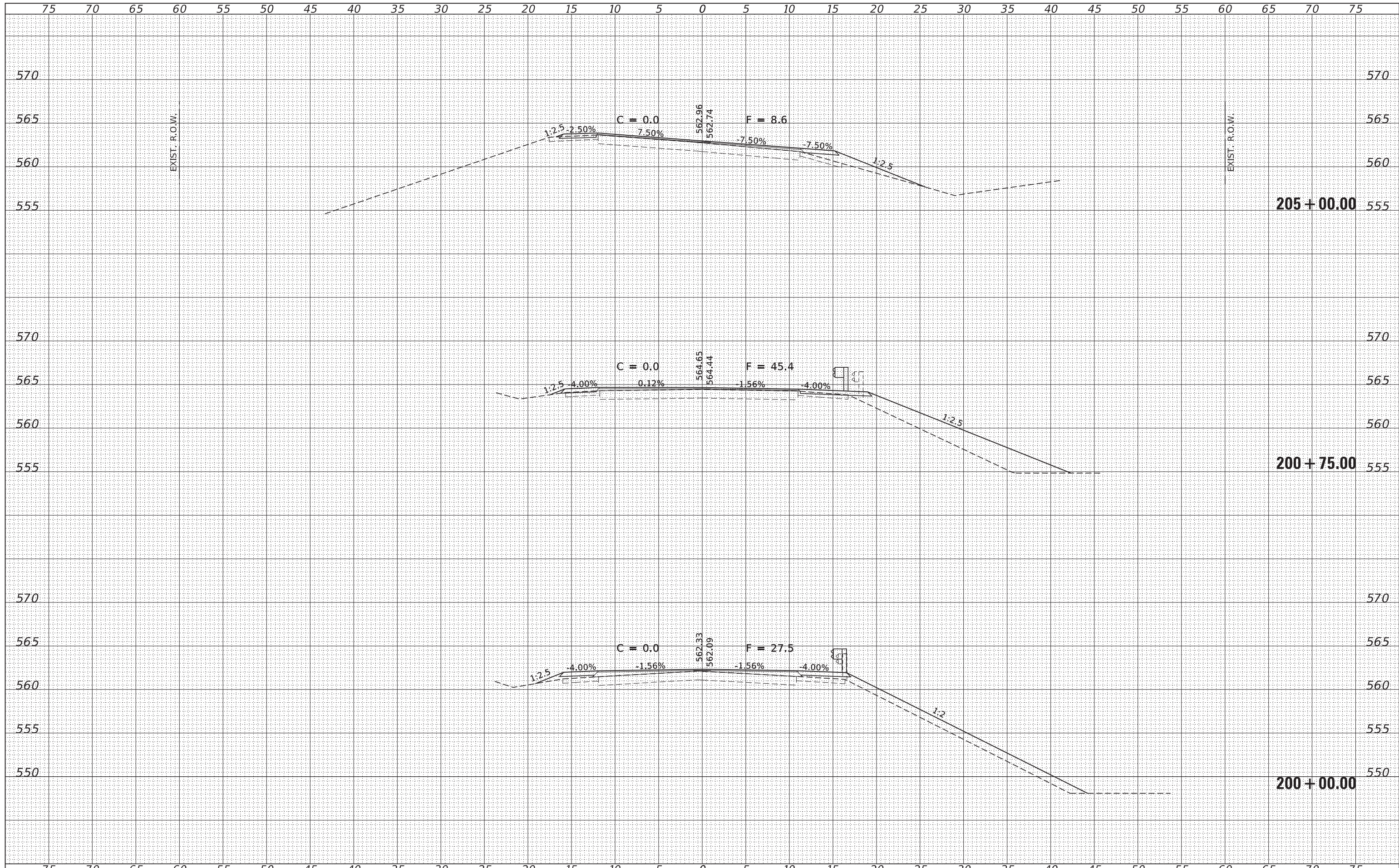
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NOTE BOOK NO.	
AREAS CHECKED	



DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
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FILE NAME = 170252-shl-xssht-clt1erks.dgn
 HAMPSON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000958

USER NAME = tmlk
 PLOT SCALE = \$S\$CALES
 PLOT DATE = 5/31/2019

DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 05/30/19

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 ALEXANDER COUNTY HIGHWAY DEPARTMENT

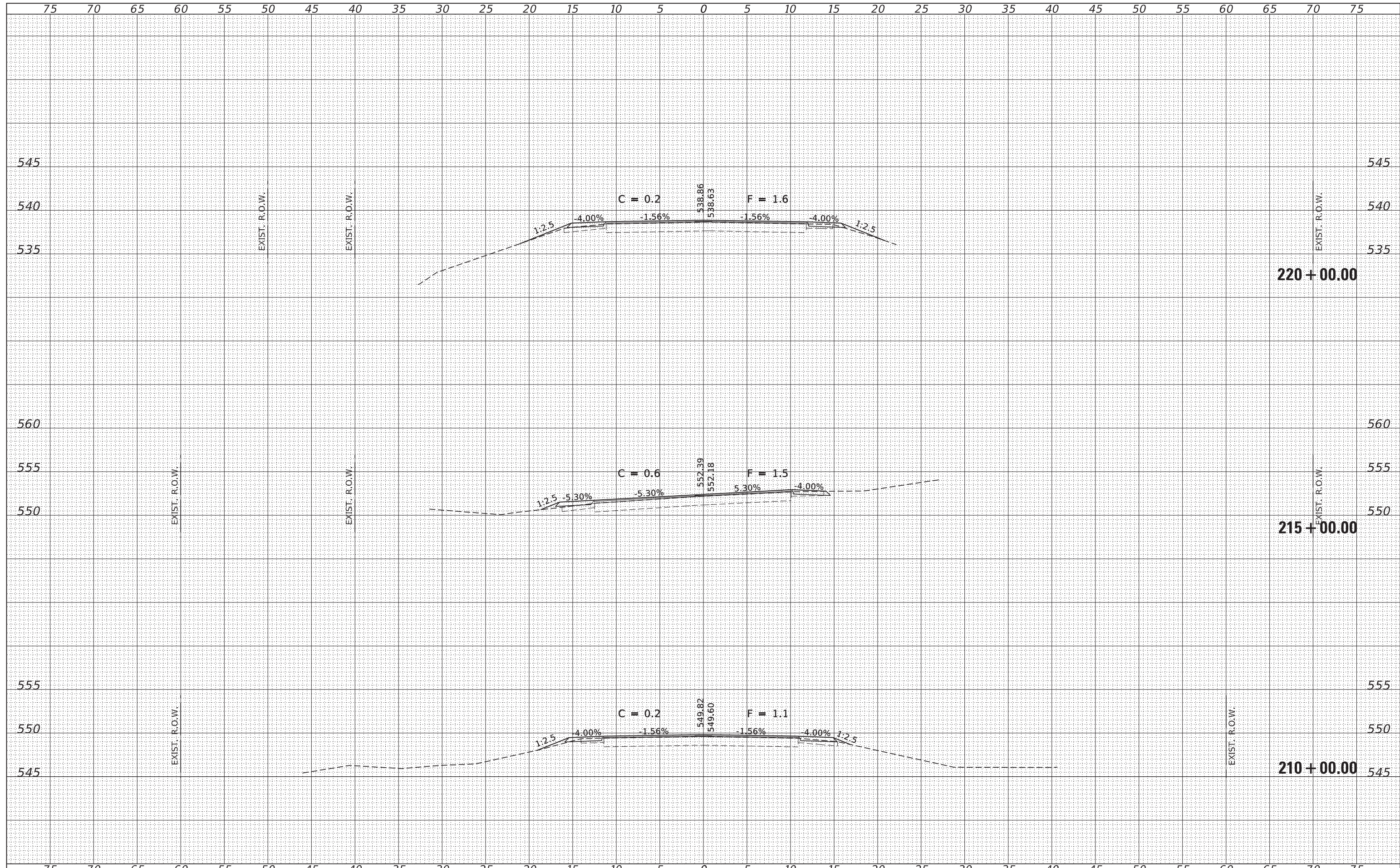
STATION CROSS SECTIONS

SCALE: 5H:5V
 SHEET NO. OF SHEETS STA. 200+00.00 TO STA. 205+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
945	15-00082-00-RS	ALEXANDER	39	28
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

DATE	
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FINISHED SURVEY	
NOTE BOOK	
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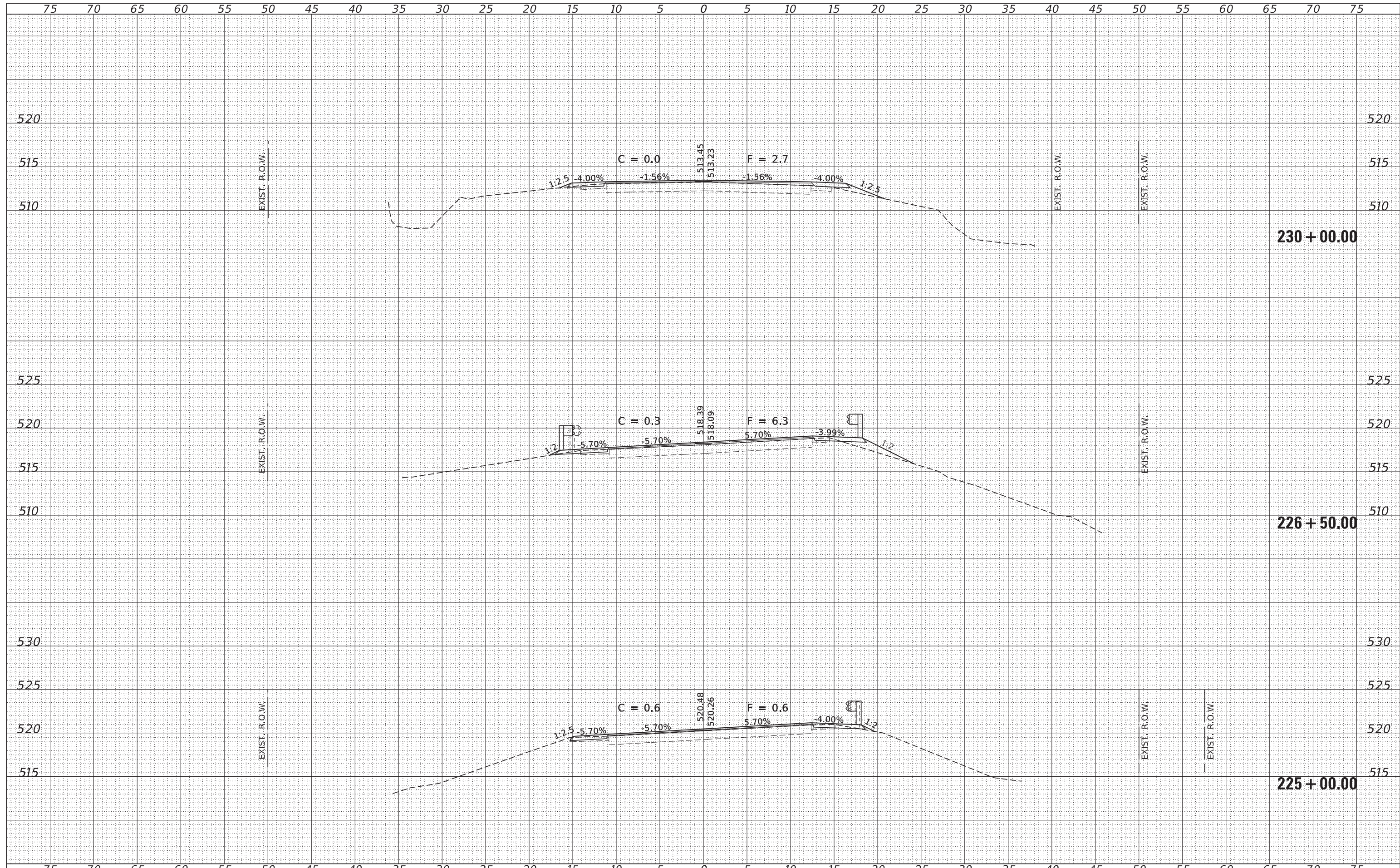
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AREAS CHECKED	



FILE NAME = 170252-shl-vssht-clt1erks.dgn	USER NAME = tmk	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		945	15-00082-00-RS	ALEXANDER	39	29			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184-000958	PLOT SCALE = \$\$CALES	CHECKED - S.W.M.	REVISED -		CONTRACT NO.			ILLINOIS FED. AID PROJECT				
PLOT DATE = 5/31/2019	DATE - 05/30/19	REVISED -	SCALE: 5H:5V		SHEET NO.	OF SHEETS	STA. 210+00.00 TO STA. 220+00.00					

DATE	
BY	
SURVEYED	
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TEMPLATE	
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DATE	
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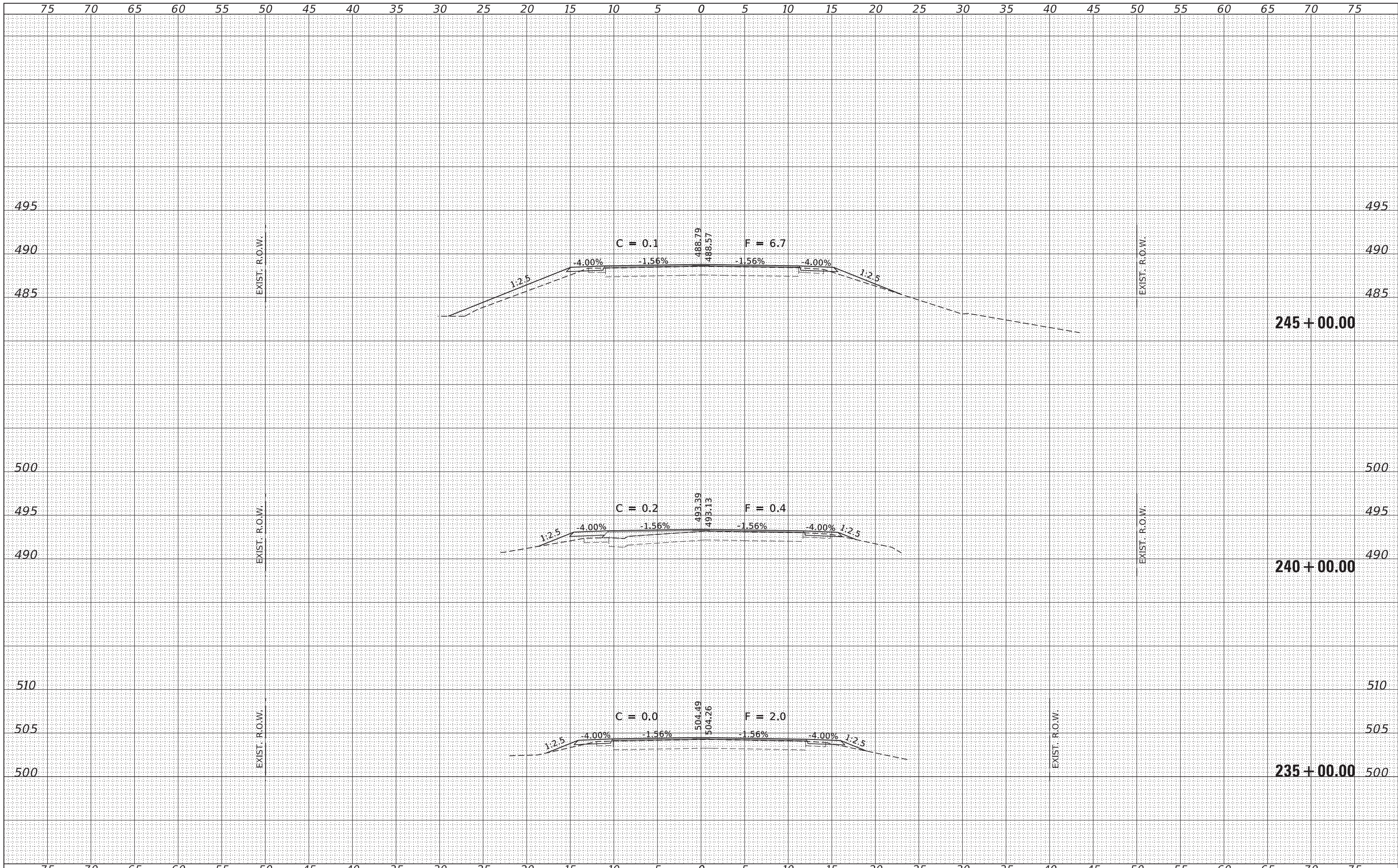


BY	DATE

FINAL SURVEY	SURVEYED	PLOTTED	DATE
NOTE BOOK	TEMPLATE	AREAS	CHECKED
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BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE
NOTE BOOK	TEMPLATE	AREAS	CHECKED
NO.			



FILE NAME = 170252-shl-vsstl-ctrlrba.dgn
HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184-000958

USER NAME = tmk
DESIGNED - J.W.F.
DRAWN - T.W.K.
CHECKED - S.W.M.
DATE - 05/30/19
PLOT SCALE = \$SCALE\$
PLOT DATE = 5/31/2019

DESIGNED - J.W.F.
REVISOR -
REVISIONS -
CHECKED - S.W.M.
REVISIONS -
DATE - 05/30/19
REVISIONS -

**STATE OF ILLINOIS
ALEXANDER COUNTY HIGHWAY DEPARTMENT**

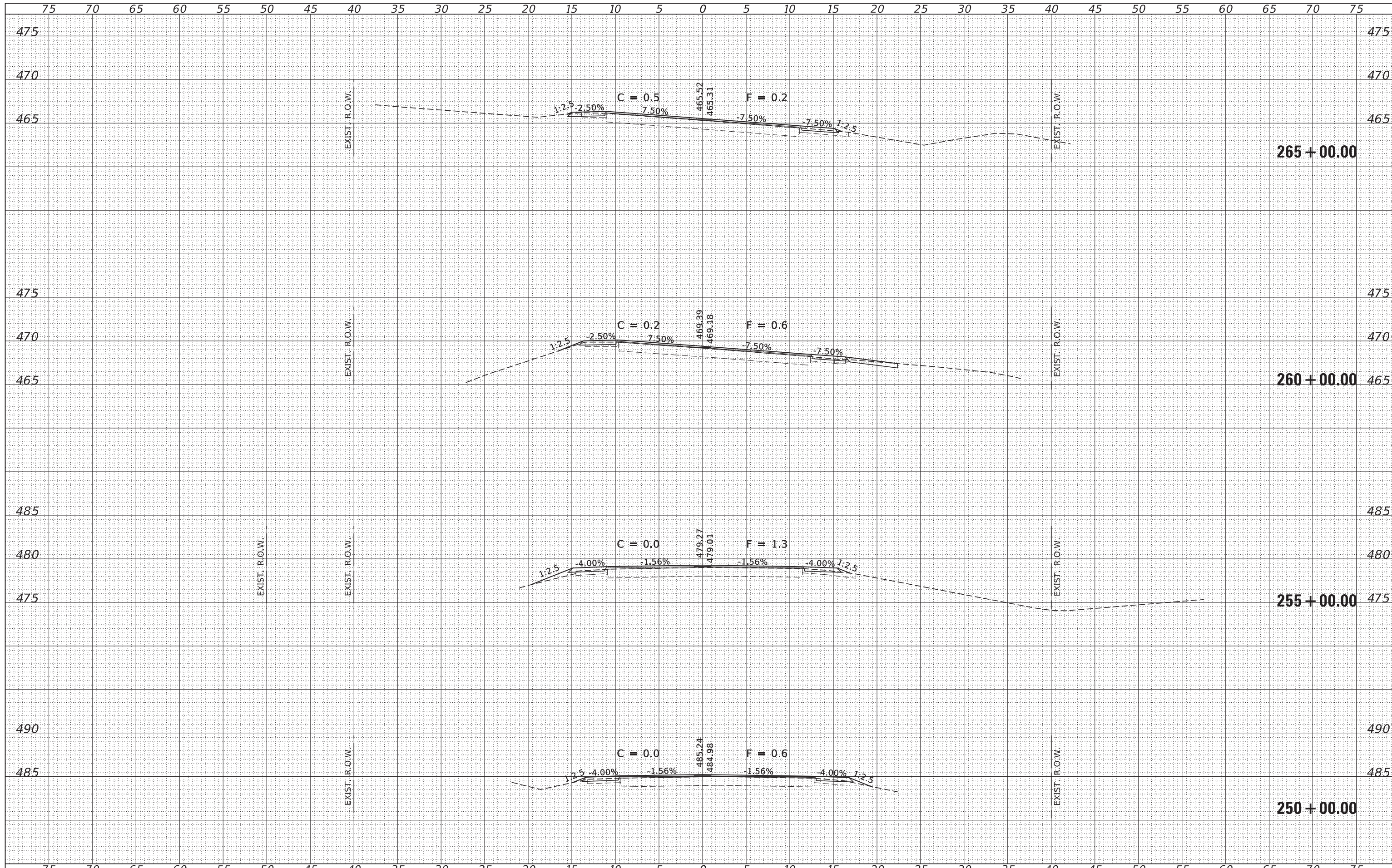
STATION CROSS SECTIONS

SCALE: 5H:5V SHEET NO. OF SHEETS STA. 235+00.00 TO STA. 245+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
945	15-00082-00-RS	ALEXANDER	39	31
		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

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FILE NAME = 170252-shl-ssstl-crtierk.dgn
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 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 05/30/19
 PLOT SCALE = \$SCALES
 PLOT DATE = 5/31/2019

DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 05/30/19
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 ALEXANDER COUNTY HIGHWAY DEPARTMENT**

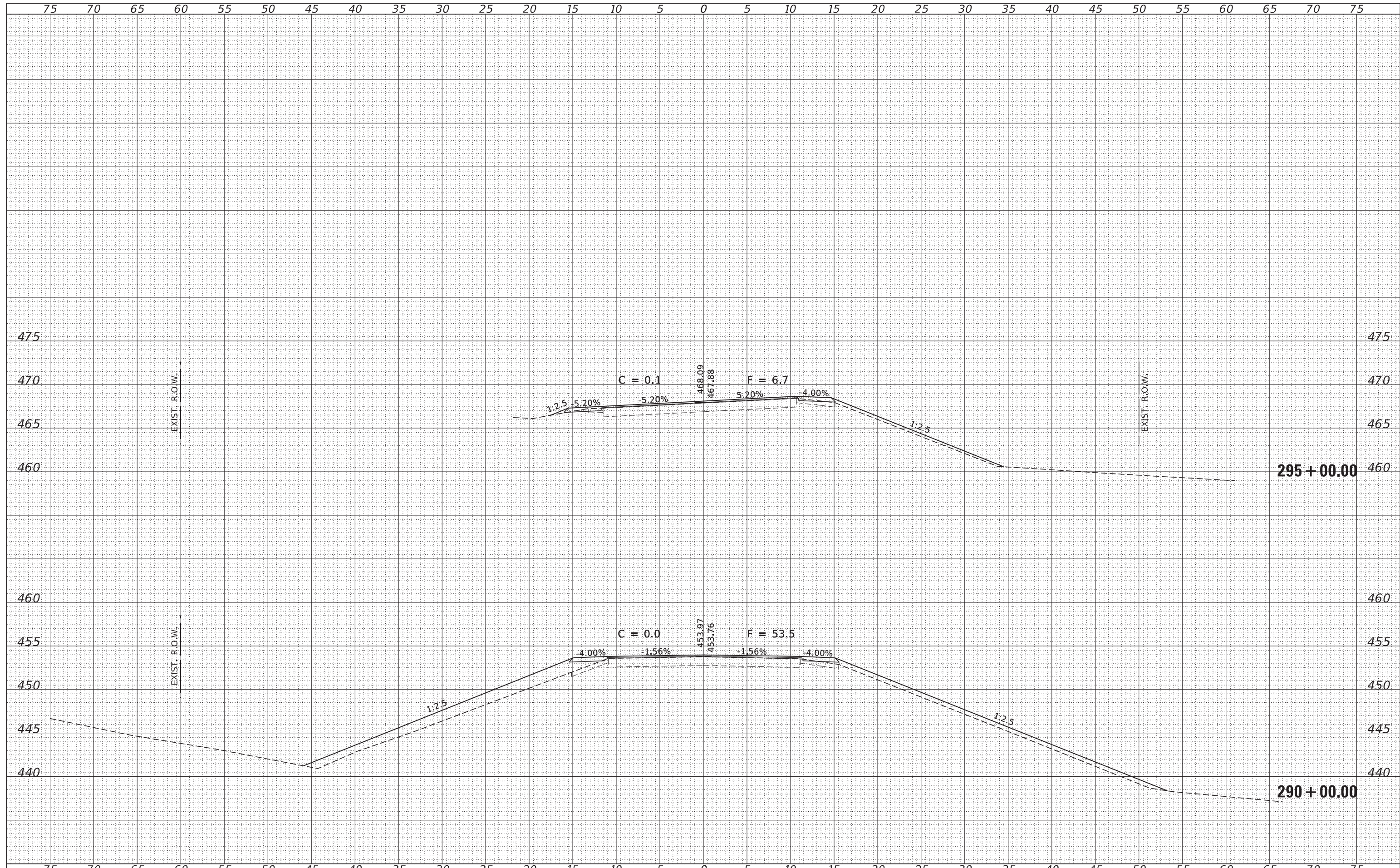
STATION CROSS SECTIONS

SCALE: 5H:5V SHEET NO. OF SHEETS STA. 250+00.00 TO STA. 265+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
945	15-00082-00-RS	ALEXANDER	39	32
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINISH	
NO.	

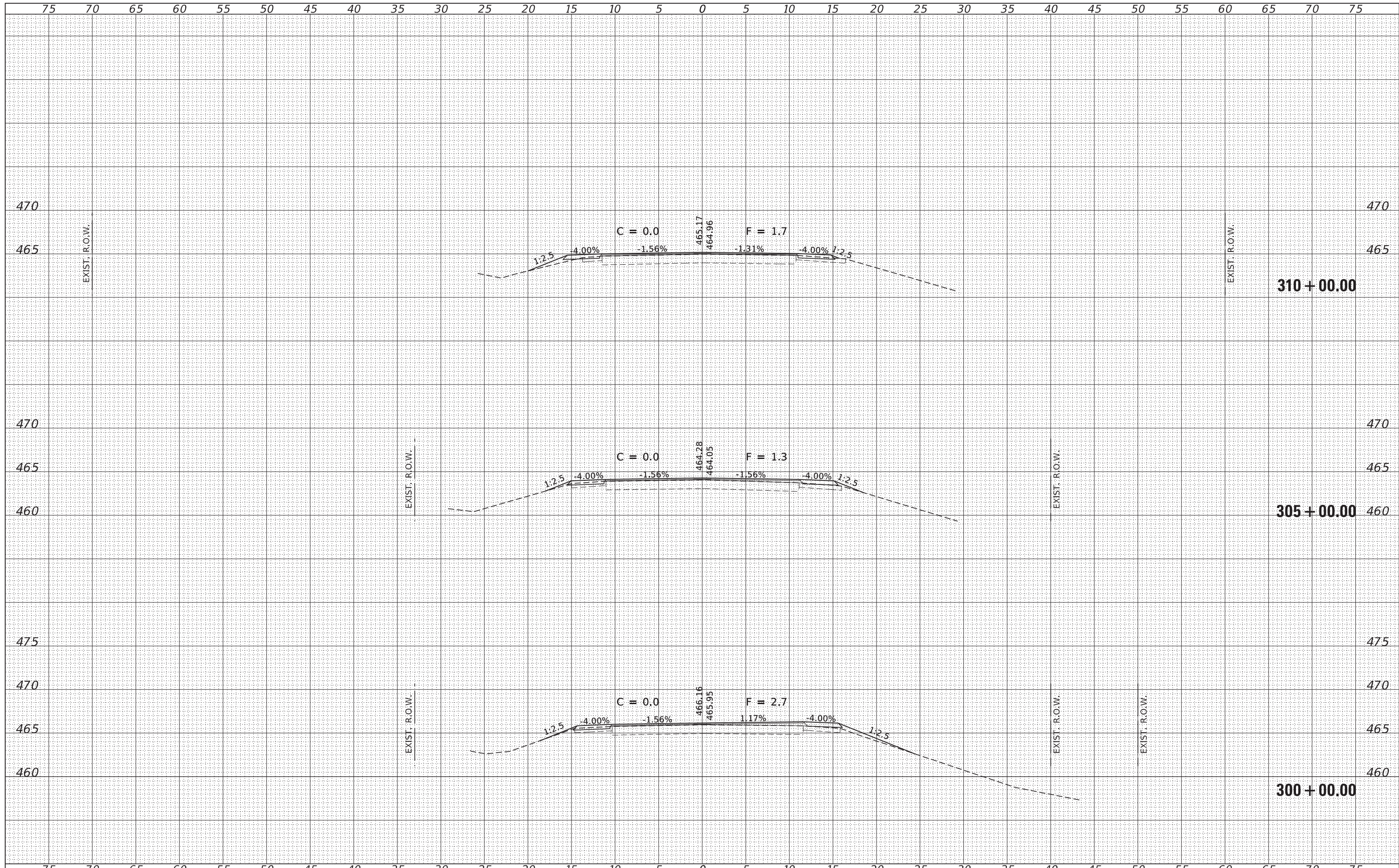
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
NO.	



FILE NAME = 170252-shl-xssh-criterla.dgn	USER NAME = tmk	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS ALEXANDER COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62704 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958	PLOT SCALE = \$SCALES	DRAWN - T.W.K.	REVISED -		945	15-00082-00-RS	ALEXANDER	39	35			
PLOT DATE = 5/31/2019	DATE - 05/30/19	CHECKED - S.W.M.	REVISED -		CONTRACT NO.			ILLINOIS FED. AID PROJECT				
		DATE - 05/30/19	REVISED -		SCALE: 5H:5V	SHEET NO.	OF SHEETS	STA. 290+00.00 TO STA. 295+00.00				

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = 170252-shl-vssht-crt1rks.dgn
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 05/30/19

USER NAME = tmk
 PLOT SCALE = \$\$CALES
 PLOT DATE = 5/31/2019

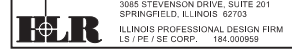
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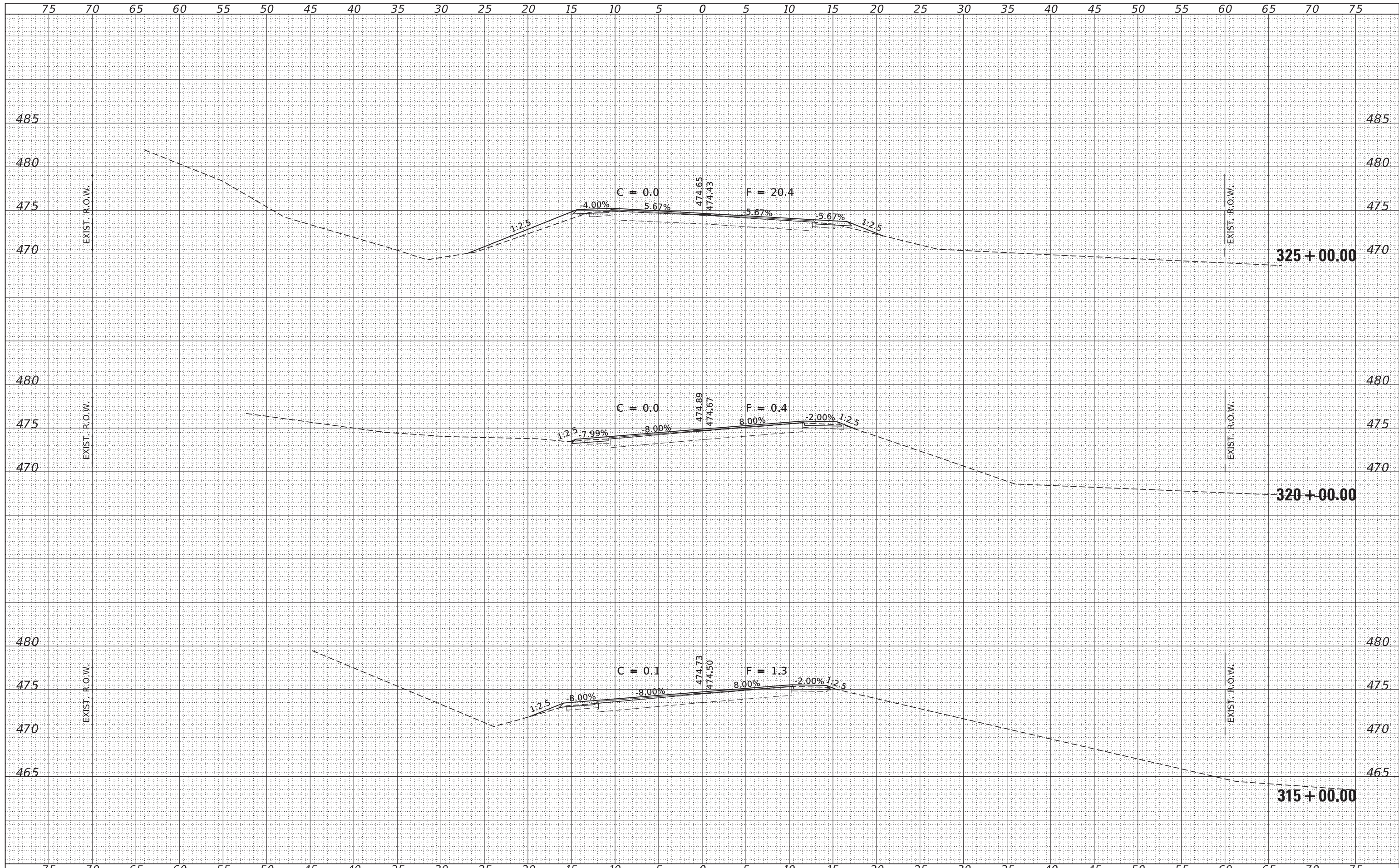
STATE OF ILLINOIS
 ALEXANDER COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:5V
 SHEET NO. OF SHEETS STA. 300+00.00 TO STA. 310+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
945	15-00082-00-RS	ALEXANDER	39	36
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				





DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS	
NO.	

FILE NAME = 170252-shi-vssht-crt1rta.dgn
 USER NAME = tmk
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 05/30/19
 PLOT SCALE = \$SCALE\$
 PLOT DATE = 5/31/2019

DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 05/30/19

STATE OF ILLINOIS
ALEXANDER COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCALE: 5H:5V
 SHEET NO. OF SHEETS STA. 315+00.00 TO STA. 325+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
945	15-00082-00-RS	ALEXANDER	39	37
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

