

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	1
		ILLINOIS	CONTRACT NO. 78509	

FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 6-10
FOR STRUCTURAL PAVEMENT DESIGN INFORMATION, SEE SHEET NO. 11

TRAFFIC DATA

IL 15 WEST OF INTERSECTION
2015 ADT = 5,150 WITH 4.9% TRUCKS

IL 15 EAST OF INTERSECTION
2015 ADT = 4,450 WITH 5.6% TRUCKS

NORTH HARMONY LANE
2015 ADT = 850 WITH 4.1% TRUCKS

SOUTH HARMONY LANE (CH3)
2015 ADT = 500 WITH 9.0% TRUCKS

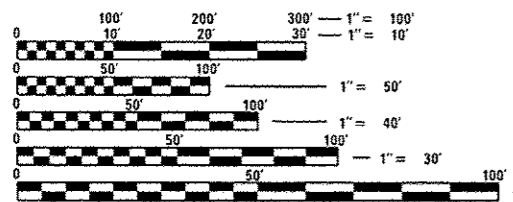
TOWNSHIPS

WEBBER

DESIGN DESIGNATION : 6410(16) MINOR ARTERIAL 0.55 (FD-20)

COORDINATE SYSTEM : EPSG: 102671
NAD 1983 STATE PLANE ILLINOIS EAST FIPS 1201 FEET

POSTED SPEED : 55 MPH



PLAN PROFILE
CONSTRUCTION/REMOVAL
GEOMETRIC
PAVEMENT MARKING

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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

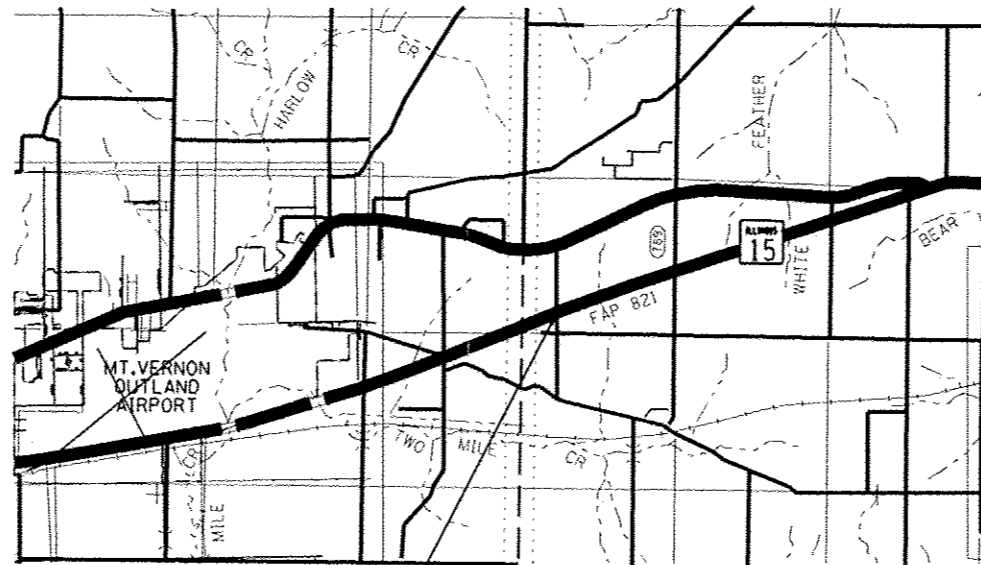
PROJECT ENGINEER: SUSAN POE
PROJECT DESIGNER: JAY KRANZ

CONTRACT NO. 78509

**PROPOSED
HIGHWAY PLANS**

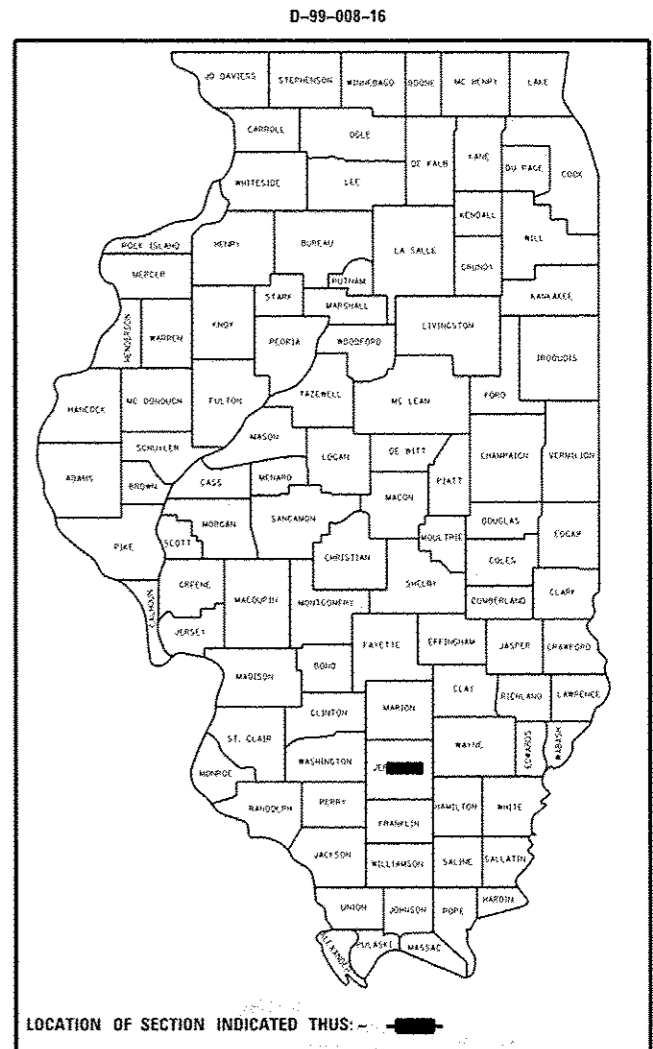
FAP ROUTE 821 (IL 15)
SECTION 16-2(N-1)
PROJECT HSIP-0821(051)
INTERSECTION IMPROVEMENTS
JEFFERSON COUNTY

C-99-008-16



PROJECT LOCATION
IL15/NORTH HARMONY LANE
IL 15 STA. 285+40 TO STA. 304+45

GROSS LENGTH = 1,905.0 FT. = 0.36 MILE
NET LENGTH = 1,905.0 FT. = 0.36 MILE



T2S

MAP NOT TO SCALE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

SUBMITTED Dec 5 2016
Jeffrey L. Kevin
REGION FIVE ENGINEER

Maureen M. Addis, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Maureen M. Addis
DIRECTOR OF PROGRAM DEVELOPMENT

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

Prepared By: *[Signature]*
DISTRICT STUDIES & PLANS ENGINEER

Examined By: *[Signature]*
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Examined By: *[Signature]*
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *[Signature]*
DISTRICT OPERATIONS ENGINEER

Examined By: *[Signature]*
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: *[Signature]*
DISTRICT CONSTRUCTION ENGINEER

Examined By: *[Signature]*
DISTRICT MATERIALS ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

FILE NAME :	USER NAME : kranzjg	DESIGNED -	REVISED -
p:\11084E810\ITEG, Illinois.gov\PWIDOT\Documents\DOT Offices\District 9\Projects\78509\Drawings\78509-sha-cvr.dwg		DRAWN	REVISED
#MODELNAME#	PLOT SCALE = 100.0000 / 1"=100'	CHECKED -	REVISED -
	PLOT DATE = 11/19/2016	DATE -	REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							821	16-2IN-11	JEFFERSON	110	2
CONTRACT NO. 78509											
ILLINOIS FED. AID PROJECT											

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, STANDARDS
4	GENERAL NOTES, COMMITMENTS
5	MIXTURE REQUIREMENTS
6 - 10	SUMMARY OF QUANTITIES
11 - 13	TYPICAL SECTIONS
14 - 22	SCHEDULES OF QUANTITIES
23 - 24	TIE POINTS
25	GEOPAK ELEMENTS
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35	ROW SHEETS
36 - 40	GEOMETRICS SHEETS
41 - 44	PAVEMENT MARKING SHEET
45	DETAIL: BUTT JOINTS
46	DETAILS: HMA TRANSITIONS, TEMP DITCH CHECKS, STONE RIPRAP DITCH LINING, SEED & MULCHING
47	DETAIL: UNEVEN LANES SIGN, STEP CONSTRUCTION ROUGH GROOVED SURFACE SIGN
48	DETAIL: POROUS GRANULAR BACKFILL
49 - 110	CROSS-SECTIONS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS ABBREVIATIONS & PATTERNS
001006	DECIMAL OF INCH & FOOT
280001-07	TEMP EROSION CNTRL SYSTEMS
482001-02	HMA SHLD ADJ TO FLEX PVMT
482011-03	HMA SHLD STRIPS (SHLDS) WRESURF OR WIDEN & RESURF PROJ
542301-03	PRECAST REINF CONC FLARED END SECT
666001-01	ROW MRKRS
667101-02	PERMANENT SURVEY MRKRS
701001-02	OFF RD OP-2L2W-15FT MIN FROM EOP
701006-05	OFF RD OP-2L2W-15FT TO EOP
701011-04	OFF RD MOVING OP-2L2W-DAY ONLY
701301-04	LN CLOSURE 2L2W-SHORT TIME OP
701306-03	LN CLOSURE 2L2W-SLOW MOVE OP DAY ONLY 45MPH OR MORE
701311-03	LN CLOSURE 2L2W-MOVING OP DAY ONLY
701326-04	LN CLOSURE 2L2W-PVMT WIDENING 45MPH OR MORE
701901-06	TRAF CNTRL DEVICES
780001-05	TYPICAL PVMT MRKINGS
781001-04	TYPICAL APP RAISED REFLC PVMT MRKRS
BLR21-9	TYP APP TRAF CNTRL DEVICES - CONSTR ON RURAL LOCAL HWYS

GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT- MIX ASPHALT	2.016 TONS/CU. YD.
ALL AGGREGATE	2.05 TONS/CU. YD.
BITUMINOUS MATERIALS:	
MILLED OR AGED PAVEMENT (TACK COAT)	0.05 LB/SQ. FT.
BETWEEN LIFTS (TACK COAT)	0.025 LB/SQ. FT.
ON AGGREGATE BASES (PRIME COAT)	0.25 LB./SQ. FT.
RIPRAP	1.50 TONS/CU. YD.

THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 10%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

STATIONING SHOWN IN THE SCHEDULES IS BASED ON STAMPED STATIONS IN THE EXISTING PAVEMENT AND FROM OLD PLANS. MINOR ADJUSTMENTS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

THE THICKNESS OF HOT MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT MIX ASPHALT MIXTURE IS PLACED.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE SURFACE REMOVAL AND SURFACE COURSE.

THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED HOT MIX ASPHALT SURFACE AT 300 FT. INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5.5 IN. TALL, OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

SAWCUTS REQUIRED FOR BUTT JOINTS SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF THE BUTT JOINT.

BITUMINOUS RESURFACING SHALL BE PLACED IN A SEQUENCE THAT WILL MINIMIZE THE TIME THE CENTERLINE EDGE IS EXPOSED TO TRAFFIC. WHEN AT THE END OF A DAY'S OPERATION THE EXPOSED CENTERLINE EDGE IS GREATER THAN 2,000 FT., THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE ADJACENT LANE ON THE FOLLOWING WORK DAY OR PRIOR TO WINTER SHUTDOWN, RESURFACING ON ADJACENT LANES IS TO BE BROUGHT UP TO THE SAME ELEVATION.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS

PLACEMENT AND LOCATION OF PERMANENT SURVEY MARKERS SHALL BE DETERMINED BY THE ENGINEER IN COORDINATION WITH THE DISTRICT 9 SURVEYS UNIT. IN ADDITION TO THE REQUIREMENTS OF STANDARD 667101, BACKFILL USED IN CONJUNCTION WITH PRECAST MARKERS SHALL BE QUICK-MIX CONCRETE OR SIMILAR MATERIAL APPROVED BY THE ENGINEER.

AFTER A LIFT OF HOT MIX ASPHALT HAS BEEN PLACED, THE LANE SHALL REMAIN CLOSED TO TRAFFIC IN ACCORDANCE WITH ARTICLE 701.17(c)(4) AND UNTIL THE NEW MAT HAS COOLED TO 150 DEGREEES FAHRENHEIT.

POROUS GRANULAR BACKFILL REQUIRED FOR PIPE CULVERTS, STORM SEWER, SANITARY SEWER, OR WATER MAINS SHALL ONLY BE PLACED UP TO ONE FOOT BELOW THE FINAL GRADE IN AREAS HAVING A PROPOSED GRASS OR SOD SURFACE.

EXISTING METAL END SECTIONS THAT ARE REQUIRED TO BE REMOVED SHALL BE INCLUDED IN THE COST OF CULVERT REMOVAL.

THE EXCAVATION AND BACKFILL REQUIRED FOR PIPE CULVERT REMOVAL IS INCLUDED IN THE COST OF PIPE CULVERT REMOVAL, NO ADDITIONAL COMPENSATION WILL BE GIVEN.

WHEN WIDENING PAVEMENT, THE CONTRACTOR SHALL TRIM EXISTING SURFACE AND BASE TO A FIRM, NEAR VERTICAL PLANE BEFORE CONSTRUCTING THE WIDENING. THE COST OF THIS REQUIREMENT IS INCLUDED IN THE UNIT PRICE BID FOR THE BASE COURSE WIDENING.

COMMITMENTS

TREES 3" OR GREATER IN DIAMETER AT 4.5' HEIGHT FROM THE GROUND WILL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30.

TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, OR CONSTRUCTION LIMITS, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.

FILE NAME =	USER NAME = krenzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, COMMITMENTS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\084EBIDINTEG\11\inois.gov\PIDOT\Documents\IDOT Offices\District 9\Projects\78509\Drawings\CAD\Sheets\78509-sha-cvr-soq.dwg	PLOT SCALE = 93.0556' / in.	CHECKED -	REVISED -						821	16-2(N-1)	JEFFERSON	110	4
Default	PLOT DATE = 12/14/2016	DATE -	REVISED -		CONTRACT NO. 78509								
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

MIXTURE REQUIREMENTS

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS (TOP LIFT), INCIDENTAL HOT-MIX ASPHALT SURFACING
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS, IL-9.5L
AC/PG:	PG64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5L
FRICITION AGGREGATE:	NONE
QUALITY MANAGEMENT PROGRAM:	QC/QA

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS (LOWER LIFTS)
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS, IL-19.0L
AC/PG:	PG64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-19.0L
FRICITION AGGREGATE:	NONE
QUALITY MANAGEMENT PROGRAM:	QC/QA

LOCATION(S):	HOT-MIX ASPHALT SURFACE COURSE
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70
AC/PG:	PG64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5MM
FRICITION AGGREGATE:	D SURFACE
QUALITY MANAGEMENT PROGRAM:	QC/QA

LOCATION(S):	HOT-MIX ASPHALT BASE COURSE
MIXTURE USE(S):	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
AC/PG:	PG64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-19.0MM
FRICITION AGGREGATE:	NONE
QUALITY MANAGEMENT PROGRAM:	QC/QA

SUMMARY OF QUANTITIES

COUNTY:	Jefferson
ROUTE:	IL 15, FAP 821
FUNDING:	90% FEDERAL 10% STATE
LOCATION:	RURAL
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	619
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	334
20200100	EARTH EXCAVATION	CU YD	10170
20900110	POROUS GRANULAR BACKFILL	CU YD	18
25000200	SEEDING, CLASS 2	ACRE	2.5
25000350	SEEDING, CLASS 7	ACRE	2.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	400
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	300
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	300
25000700	AGRICULTURAL GROUND LIMESTONE	TON	5
25100115	MULCH, METHOD 2	ACRE	5
25100630	EROSION CONTROL BLANKET	SQ YD	1392

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FILE NAME: p:\110884E910\ITEG.illinois.gov\110710	USER NAME: s.krantz	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:	
		DRAWN: -	REVISED: -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	JEFFERSON	110	6
		CHECKED: -	REVISED: -								CONTRACT NO. 78509		
		DATE: -	REVISED: -								ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES - CONT

COUNTY:	Jefferson
ROUTE:	IL 15, FAP 821
FUNDING:	90% FEDERAL 10% STATE
LOCATION:	RURAL
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	500
28000305	TEMPORARY DITCH CHECKS	FOOT	180
28000500	INLET AND PIPE PROTECTION	EACH	3
28100107	STONE RIPRAP, CLASS A4	SQ YD	406
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	3316
31101900	SUBBASE GRANULAR MATERIAL, TYPE C	TON	194
35100100	AGGREGATE BASE COURSE, TYPE A	TON	131
35501322	HOT-MIX ASPHALT BASE COURSE, 9 1/2"	SQ YD	2422
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	8273
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	4206
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	232
40600990	TEMPORARY RAMP	SQ YD	34

2

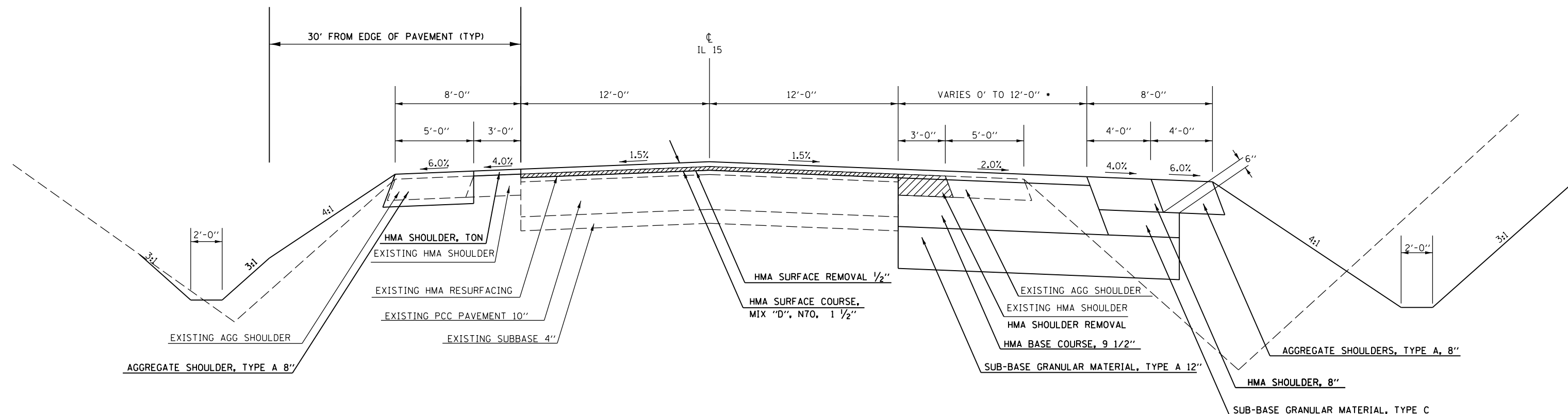
SUMMARY OF QUANTITIES - CONT

COUNTY:	Jefferson
ROUTE:	IL 15, FAP 821
FUNDING:	90% FEDERAL 10% STATE
LOCATION:	RURAL
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	72.8
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	11141
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	539
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	38
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	72.8
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	11141
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	539
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	38
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SO FT	38662
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	22

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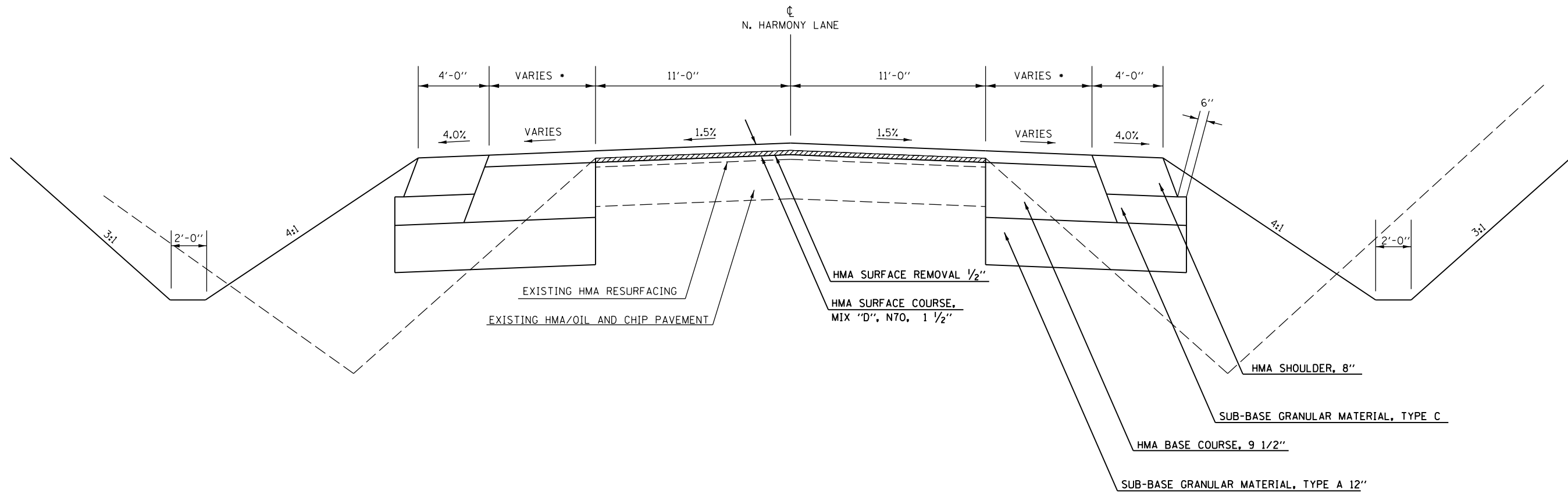
* SPECIALTY ITEM



TO BE USED:
 STA. 285+40 TO STA. 304+45

• SEE GEOMETRICS SHEETS FOR PAVEMENT WIDTH TRANSITIONS

STRUCTURAL DESIGN TRAFFIC:	Year	2015
PV =	4900	SU = 175 MU = 75
ROAD/STREET CLASSIFICATION:	Class	II
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:		
P =	50	S = 50 M = 50
TRAFFIC FACTOR:	Actual TF = 0.56	AC Type =
	Minimum TF = 3.17	
PG GRADE:	Binder = PG64-22	Surface = PG64-22
SUBGRADE SUPPORT RATING:		
SSR =	POOR	(Sta. 285+40 to 304+45)
SSR =		(Sta. _____ to _____)



TO BE USED:
STA. 18+25 TO STA. 19+17.3
STA. 20+12.8 TO STA. 21+62

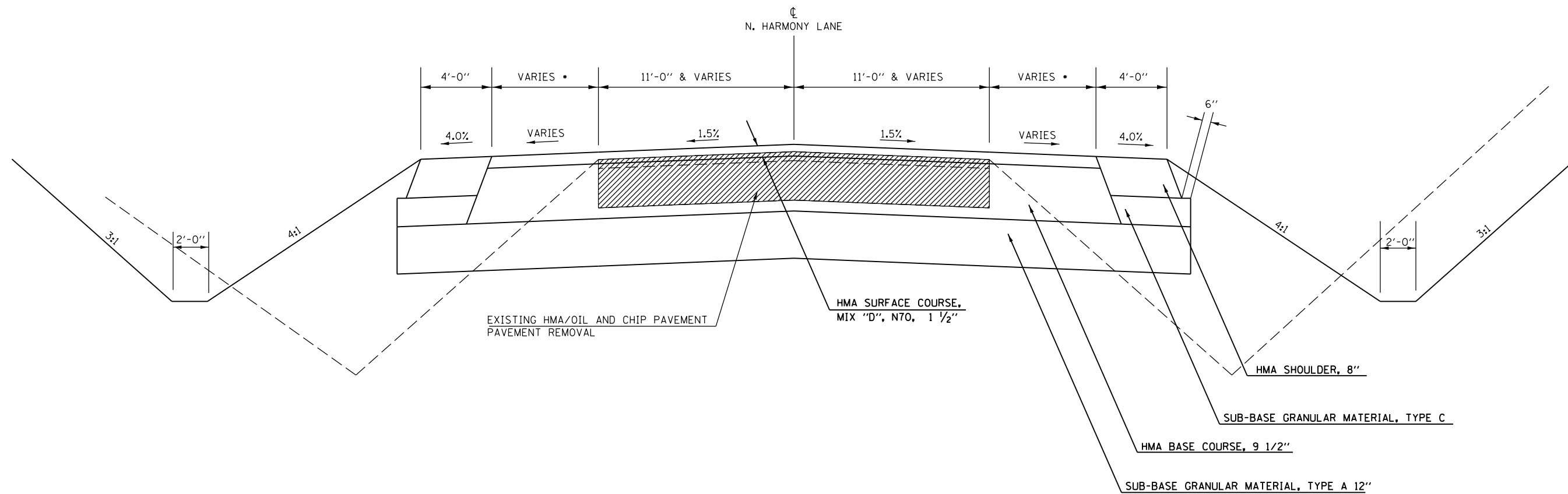
• SEE GEOMETRICS SHEET FOR EDGE OF PAVEMENT OFFSETS AND ELEVATIONS

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -
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Default	PLOT SCALE = 94.4444' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/14/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL NORTH HARMONY LANE			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	12
ILLINOIS FED. AID PROJECT				
CONTRACT NO. 78509				



TO BE USED:
STA. 19+17.3 TO STA. 19+83.5

• SEE GEOMETRICS SHEET FOR EDGE OF PAVEMENT OFFSETS AND ELEVATIONS

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -
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Default	PLOT SCALE = 94.4444' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL NORTH HARMONY LANE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78509	

SHOULDER SCHEDULE

LOCATION STA TO STA	HMA SHOULDER	HMA SHOULDER, 8"	AGGREGATE SHOULDERS, TYPE A 8"	SUB-BASE GRANULAR MATERIAL, TYPE C	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)
	TON	SQ YD	SQ YD	TON	POUND	POUND
FAP 821 (IL 15)						
RT STA 285+40. TO STA 286+42.2		45.4	45.4	4.8	102.2	10.2
RT STA 286+42.2 TO STA 293+89.2		332	332	63.8	747.0	74.7
RT STA 293+89.2 TO STA 294+07.9			4.2			
RT STA 295+62.1 TO STA 296+06.3			9.9			
RT STA 296+06.3 TO STA 303+43.5		327.6	327.6	63	737.1	73.7
RT STA 303+43.5 TO STA 304+45.		45.1	45.1	4.8	101.5	10.1
LT STA 285+62.12 TO STA 294+16.9			474.9			
LT STA 294+16.88 TO STA 294+23.53			1.8			
LT STA 295+77.7 TO STA 295+80.3			0.7			
LT STA 295+80.3 TO STA 304+45.			480.4			
LT STA 285+40. TO STA 293+79.35	23.5					125.9
LT STA 293+79.35 TO STA 294+16.88	0.5					2.8
LT STA 295+80.25 TO STA 295+96.49	0.2					1.2
LT STA 295+96.49 TO STA 304+45.	23.8					127.3
NORTH HARMONY LANE						
LT STA 18+25. TO STA 19+39.3		61.9		11.9	139.3	13.9
RT STA 18+25. TO STA 19+93.71		86.1		16.6	193.7	19.4
LT STA 19+93.46 TO STA 21+62.		86		16.5	193.5	19.4
RT STA 20+47.8 TO STA 21+62.		61.9		12.6	139.7	14.4
SCHEDULE TOTAL	48.0	1,046.0	1,722.0	194.0	2,354.0	493.0
FROM PAVEMENT SCHEDULE					5,919.0	3,713.0
PROJECT TOTAL	48.0	1,046.0	1,722.0	194.0	8,273.0	4,206.0

REMOVAL SCHEDULE

LOCATION STA TO STA	HMA SURFACE REMOVAL 1/2"	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	BUTT-JOINT	TEMPORARY RAMP
	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
FAP 821 (IL 15)					
STA 285+40. TO STA 294+95.09	2546.9				
RT STA 285+40. TO STA 294+50.3			304.0		
STA 285+40.				67.0	8.9
STA 294+95.09 TO STA 304+45.	2533.1				
RT STA 295+21.7 TO STA 304+45.			308.0		
STA 304+45.				67.0	8.9
NORTH HARMONY LANE					
STA 18+25.				49.0	8.1
STA 18+25. TO STA 19+17.3	218.0				
STA 19+17.3 TO STA 19+87.14		268.0			
STA 20+12.8 TO STA 21+62.	499.0				
STA 21+62.				49.0	8.1
PROJECT TOTAL					
	5,797.0	268.0	612.0	232.0	34.0

DRAINAGE SCHEDULE

LOCATION STA TO STA	PIPE CULVERTS CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE		PRECAST REINFORCED CONCRETE FLARED END SECTIONS EQUIVALENT ROUND-SIZE		POROUS GRANULAR BACKFILL CU YD	PIPE CULVERT REMOVAL FOOT
	24"	30"	24"	30"		
	FOOT	FOOT	EACH	EACH		
FAP 821						
IL 15						
RT STA 294+00. TO STA 295+50.		150		2.0	4.5	
LT STA 294+25. TO STA 295+75.	150		2.0		13.5	
RT STA 294+80.						48.0
LT STA 295+05.						48.0
PROJECT TOTAL	150.0	150.0	2.0	2.0	18.0	96.0

EARTHWORK SCHEDULE

LOCATION STA TO STA	EARTH EXCAVATION CU YD	FOR INFORMATION ONLY					BORROW SWELL FACTOR **	FURNISHED EXCAVATION CU YD
		AVERAGE SHRINKAGE FACTOR %	EARTH EXCAVATION (ADJUSTED) CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE			
					WASTE (+)	SHORTAGE (-)		
FAP 821 IL 15								
STA 285+40. TO STA 293+85.	2,292	24.0%	1,742	1,105	637			
STA 296+00. TO STA 304+45.	6,646	33.6%	4,413	232	4,181			
LT STA 293+85. TO STA 21+62. HARMONY	353	33.8%	234	40	194			
RT STA 293+85. TO STA 18+25. HARMONY	596	31.9%	406	33	373			
LT STA 296+00. TO STA 21+62. HARMONY	81	34.2%	53	19	34			
RT STA 296+00. TO STA 18+25. HARMONY	202	33.5%	134	48	86			
PROJECT TOTAL	10,170				5,505	25.0%	0	

** BORROW PIT SHRINKAGE = 25%

BORROW SWELL FACTOR = 1/(1-25%) = 1.33

EROSION CONTROL SCHEDULE

LOCATION STA TO STA	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	STONE RIPRAP, CLASS A4
	FOOT	EACH	SQ YD	POUND	SQ YD
FAP 821					
IL 15					
LT STA 285+40. TO STA 293+79.4				72.8	
RT STA 285+40. TO STA 293+89.2				161.6	
LT STA 286+00.		1			
LT STA 286+00. TO STA 288+50.			278.0		
RT STA 286+20. TO STA 289+00.					373.0
LT STA 287+00.	10				
LT STA 288+00.	10				
LT STA 288+50. TO STA 288+75.					33.0
RT STA 289+00. TO STA 290+00.			111.0		
RT STA 289+00.	10				
RT STA 290+00.	10				
RT STA 292+00.	10				
RT STA 293+60.	10				
LT STA 293+79.4 TO STA 21+62. HARMONY NW QUAD	20		194.0	39.0	
RT STA 293+89.2 TO STA 18+25. HARMONY SW QUAD	40		144.0	10.2	
RT STA 295+50. TO STA 299+00.			389.0		
RT STA 295+50.		1			
LT STA 295+75.		1			
LT STA 295+96.5 TO STA 304+45.				28.0	
LT STA 295+96.5 TO STA 21+62. HARMONY NE QUAD	10		87.0	6.4	
RT STA 296+06.3 TO STA 304+45.				166.0	
RT STA 296+06.3 TO STA 18+25. HARMONY SE QUAD	20		189.0	16.0	
RT STA 297+00.	10				
RT STA 299+00.	10				
RT STA 301+00.	10				
PROJECT TOTAL	180.0	3.0	1,392.0	500.0	406.0

NOTE: TEMPORARY EROSION CONTROLSEEDING IS CALCULATED FOR 2 APPLICATIONS

FILE NAME =	USER NAME = krenzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE	F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 19		
pw:\IL084EBIDINTEG.illinois.gov\PIDOT\Documents\DOT Offices\District 9\Projects\78509\Drawings\CAD\Sheets\78509-shb-tpy.sch.dwg	Drawn by: krenzjc	CHECKED -	REVISED -			SCALE:	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
Default	PLOT SCALE = 94.4444' / in.	DATE -	REVISED -									

SEEDING SCHEDULE

LOCATION STA TO STA						SEEDING, CLASS 2	SEEDING, CLASS 7	MULCH, METHOD 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE
						ACRE	ACRE	ACRE	POUND	POUND	POUND	ACRE
FAP 821 IL 15												
LT	STA	285+40.	TO	STA	293+79.4	0.36	0.36	0.72	57.6	43.2	43.2	0.72
RT	STA	285+40.	TO	STA	293+89.2	0.81	0.81	1.62	129.6	97.2	97.2	1.62
LT	STA	295+96.5	TO	STA	304+45.	0.14	0.14	0.28	22.4	16.8	16.8	0.28
RT	STA	296+06.3	TO	STA	304+45.	0.83	0.83	1.66	132.8	99.6	99.6	1.66
LT	STA	293+79.4	TO	STA	21+62.	HARMONY	0.20	0.20	0.40	32.0	24.0	0.40
LT	STA	295+96.5	TO	STA	21+62.	HARMONY	0.03	0.03	0.06	4.8	3.6	0.06
RT	STA	293+89.2	TO	STA	18+25.	HARMONY	0.05	0.05	0.10	8.0	6.0	0.10
RT	STA	296+06.3	TO	STA	18+25.	HARMONY	0.08	0.08	0.16	12.8	9.6	0.16
PROJECT TOTAL						2.5	2.5	5.0	400.0	300.0	300.0	5.0

TREE REMOVAL SCHEDULE

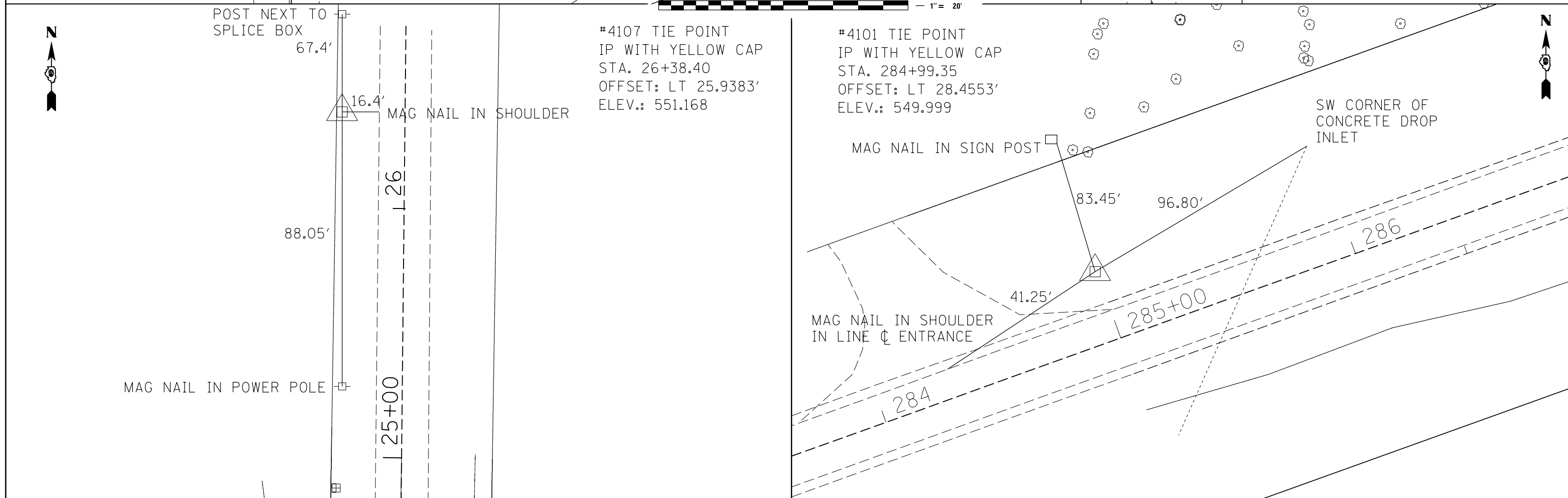
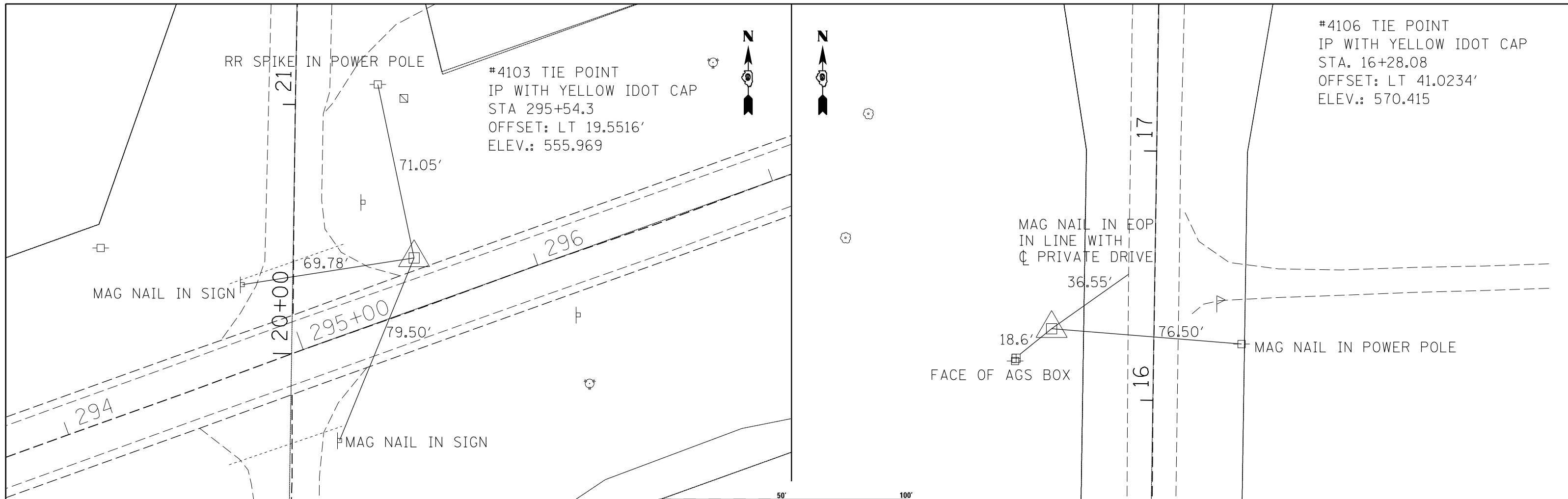
LOCATION STA TO STA				OFFSET	TREE REMOVAL 6 TO 15	TREE REMOVAL OVER 15
				FEET	UNIT	UNIT
FAP 821						
IL 15						
CONTINUED						
RT	STA	285+91.		39	10.8	
RT	STA	286+05.		54	6.5	
RT	STA	286+27.		49	8.5	
RT	STA	286+27.		39	7.5	
RT	STA	286+36.		56	7.1	
RT	STA	286+67.		54	12.0	
RT	STA	286+67.		54	14.0	
RT	STA	286+67.		54	9.2	
RT	STA	286+67.		54	12.2	
RT	STA	286+67.		54	12.0	
RT	STA	288+15.		61		25.5
RT	STA	288+24.		65	9.3	
RT	STA	288+26.		48		32.5
RT	STA	289+92.		51	8.0	
RT	STA	289+92.		51		
RT	STA	290+48.		52	6.8	
RT	STA	290+50.		46	7.1	
RT	STA	290+60.		48		
RT	STA	290+70.		54		29.0
RT	STA	290+71.		43	6.5	
RT	STA	290+76.		54	11.2	
RT	STA	291+19.		51	6.2	
RT	STA	292+15		62	8	
RT	STA	292+23		58	9	
RT	STA	292+24		66	7	
RT	STA	292+40		58	12	
RT	STA	292+40		58		16
RT	STA	292+40		58	9	
RT	STA	292+45		67	8	
RT	STA	292+50		65	6	
RT	STA	292+53		81	6	
RT	STA	292+55		83	6	
RT	STA	292+58		83	6	
RT	STA	292+60		90	12	
RT	STA	292+65		55	6	
RT	STA	292+69		54	6	
RT	STA	292+69		80	6	
RT	STA	292+70		83	6	
RT	STA	292+72		81	6	
RT	STA	292+80		52	7	
RT	STA	292+90		93	12	
RT	STA	292+95		94	10	
RT	STA	293+00		67	6	
RT	STA	293+00		81	7	
RT	STA	293+00		94	6	
RT	STA	293+03		94	8	
RT	STA	293+05		82	6	

LOCATION STA TO STA				OFFSET	TREE REMOVAL 6 TO 15	TREE REMOVAL OVER 15
				FEET	UNIT	UNIT
FAP 821						
IL 15						
CONTINUED						
RT	STA	293+07		66	7	
RT	STA	293+08		60	7	
RT	STA	293+12		82	8	
RT	STA	293+20		88	8	
RT	STA	293+25		67	6	
RT	STA	293+25		67	6	
RT	STA	293+28		62	6	
RT	STA	293+30		52	6	
RT	STA	293+32		55	11	
RT	STA	293+45		57	6	
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RT	STA	293+57		81	6	
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RT	STA	293+56		62	6	
RT	STA	293+60		50		18
RT	STA	293+67		65	10	
RT	STA	293+68		85	7	
RT	STA	293+70		83	8	
RT	STA	293+85		65	6	
RT	STA	293+92		107		21
RT	STA	294+09		129	12	
RT	STA	294+12		69	6	
RT	STA	294+12		69	12	
RT	STA	294+12		69	7	
RT	STA	294+12		70	6	
RT	STA	294+18		75	7	
RT	STA	294+25		60		20
RT	STA	296+00.		54		21.0
RT	STA	296+95.		74		29.5
RT	STA	298+30.		90		26.5
RT	STA	298+33.		90		26.5
RT	STA	299+11.		95	11.4	
RT	STA	299+40.		95	7.0	
RT	STA	299+70.		90		28.8
RT	STA	299+90.		61		23.1
RT	STA	300+17.		100	13.2	
RT	STA	300+22.		93	14.5	
RT	STA	300+27.		93	8.6	
RT	STA	300+37.		99	7.6	
RT	STA	300+73.		95	11.2	
RT	STA	300+85.		84		
RT	STA	301+03.		91		
RT	STA	301+28.		89	10.8	
RT	STA	301+32.		89	6.8	
RT	STA	301+40.		87		16.6
PROJECT TOTAL					619.0	334.0

PAVEMENT MARKING SCHEDULE

LOCATION: STATION TO STATION	THERMOPLASTIC PAVEMENT MARKING						THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS SQ FT	SHORT TERM PAVEMENT MARKING FOOT	SHORT TERM PAVEMENT MARKING REMOVAL SQ FT	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH	
	- LINE 4 INCH			- LINE 12 INCH		- LINE 24 INCH					
	WHITE	YELLOW	YELLOW	WHITE	YELLOW	WHITE					
	SOLID FOOT	SOLID FOOT	SKIP-DASH FOOT	SOLID FOOT	SOLID FOOT	SOLID FOOT					
FAP 821											
IL 15											
STA 285+40.	TO STA 286+42.	204.0		30.0				24.0	4.0	1	
STA 286+42.	TO STA 293+02.	1,320.0	2,640.0			219.0		544.0	90.7	8	
STA 293+02.	TO STA 294+17.	345.0	460.0					120.0	20.0	1	
STA 295+68.5	TO STA 296+83.5	345.0	460.0					120.0	20.0	1	
STA 296+83.5	TO STA 303+43.5	1,320.0	2,640.0			218.0		544.0	90.7	8	
STA 303+43.5	TO STA 304+45.	203.0		30.0				24.0	4.0	1	
STA 293+02.	ONLY						20.8				
STA 293+60.	LT TURN ARROW						15.6				
STA 296+24.	LT TURN ARROW						15.6				
STA 296+82.	ONLY						20.8				
HARMONY LN											
STA 18+25.	TO STA 19+74.3	299.0	299.0					32.0	5.3		
STA 20+12.8	TO STA 21+62.	298.0		40.0				32.0	5.3		
STA 19+33.4	TO STA 19+67.6 ISLAND	104.0			52.0						
STA 20+19.6	TO STA 20+53.8 ISLAND	104.0			50.0						
STA 19+50.2	STOP BAR					19.0		228.0	38.0		
STA 20+37.	STOP BAR					19.0		228.0	38.0		
SUBTOTALS:		4,542.0	6,499.0	100.0	102.0	437.0					
IMPROVEMENT TOTALS:		11,141.0			539.0		38.0	72.8	1,896.0	316.0	22

NOTE: SHORT TERM PAVEMENT MARKING: 2 APPLICATIONS - SURFACE REMOVAL, SURFACE COURSE

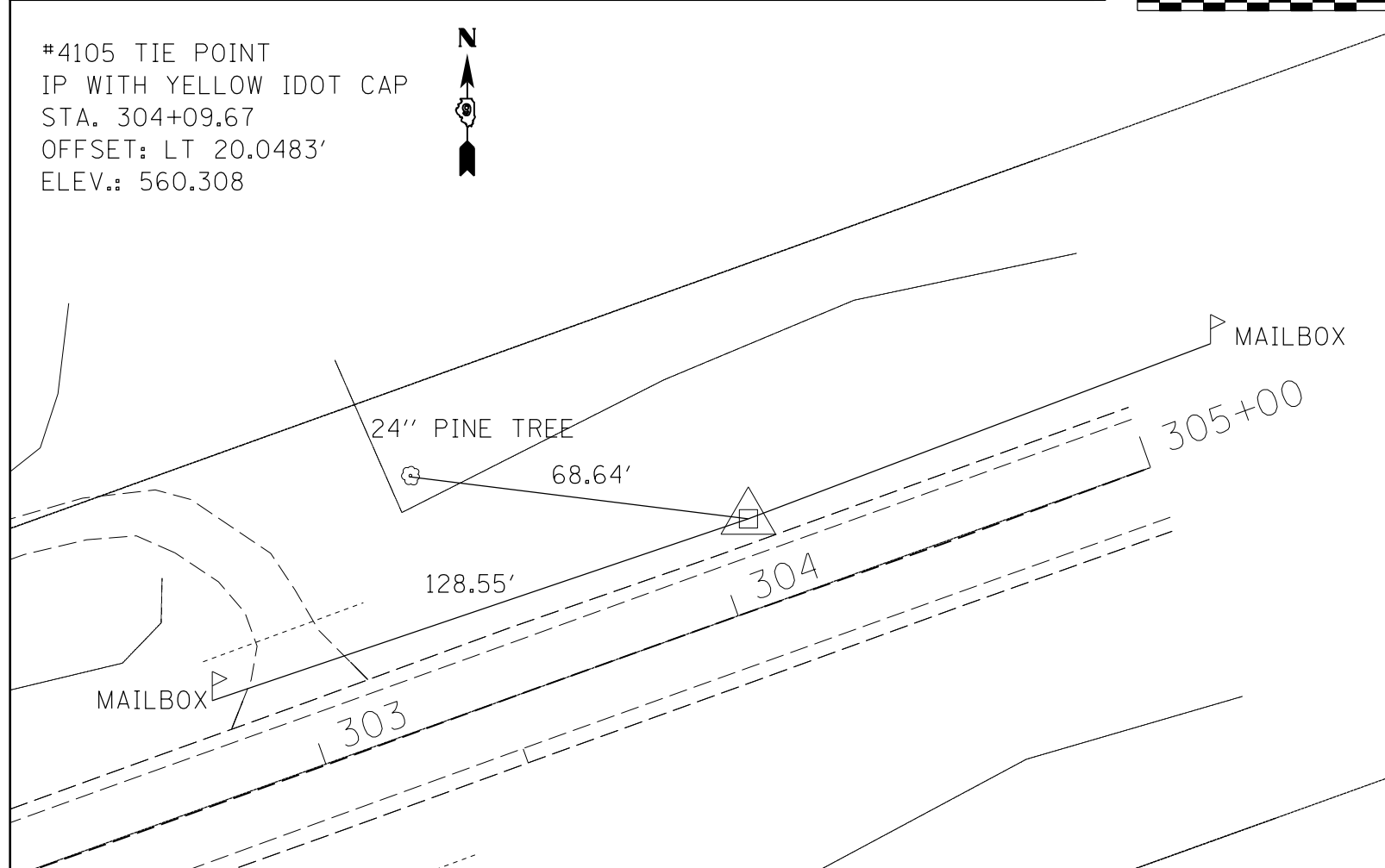
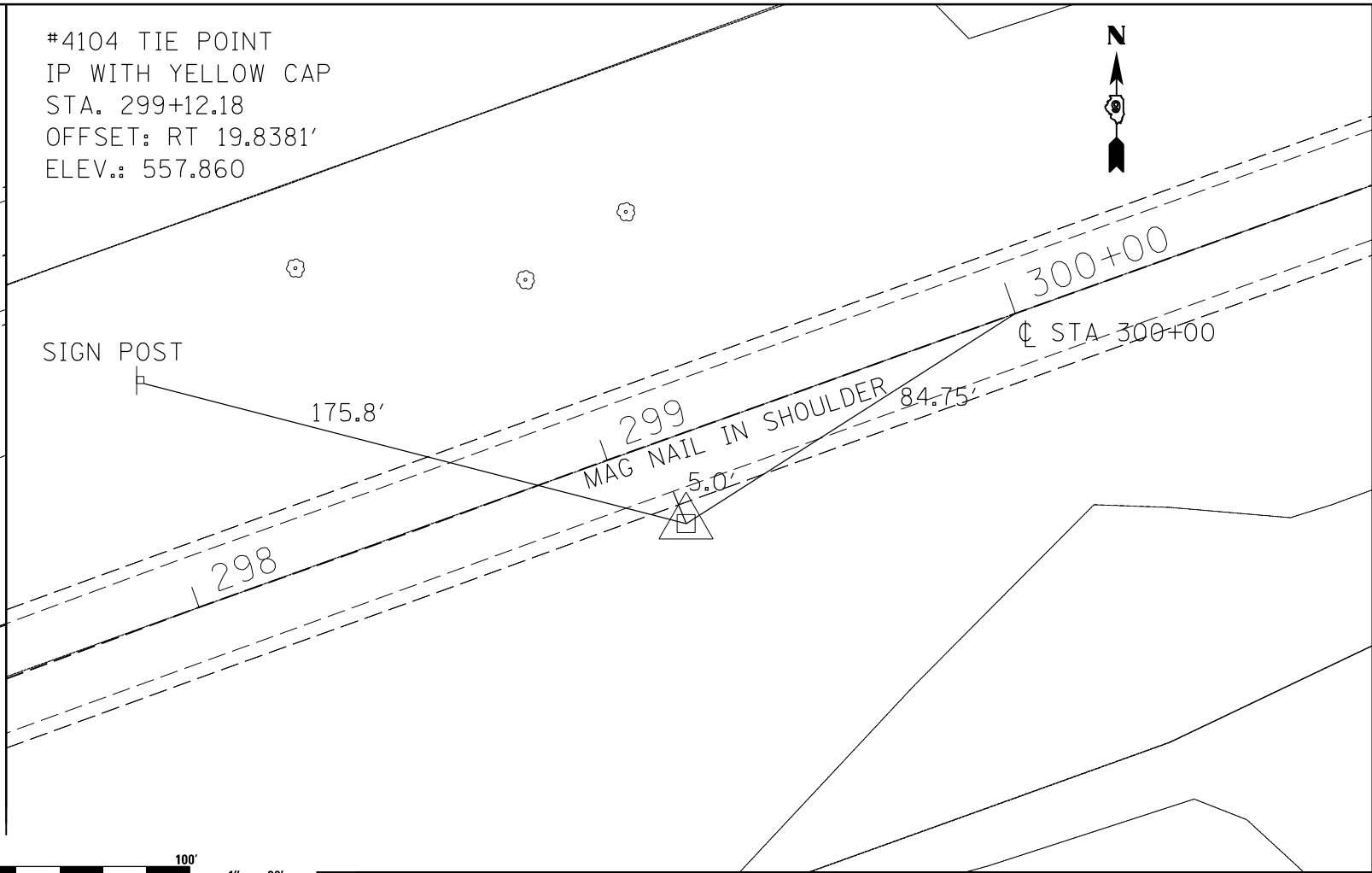
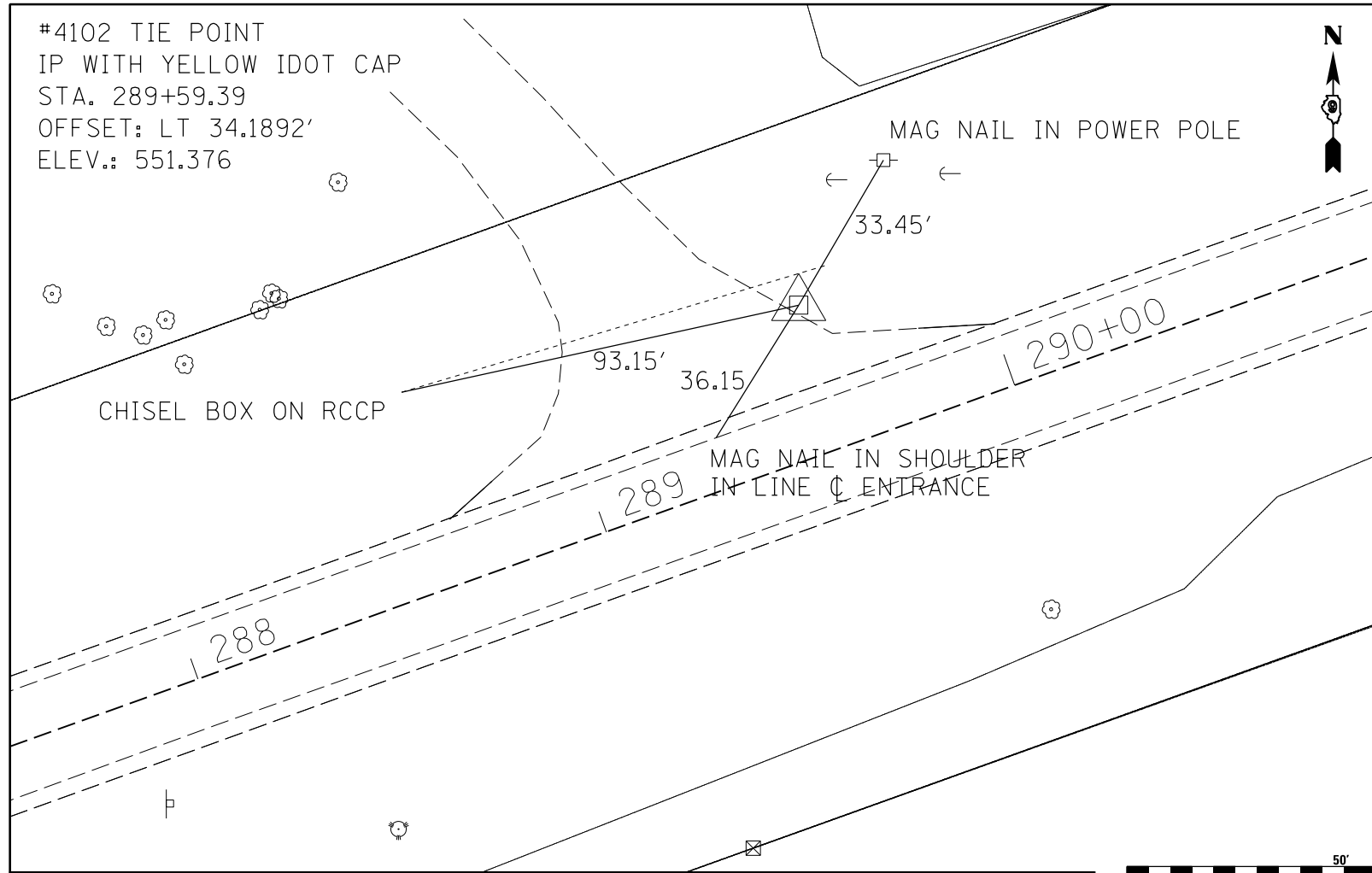


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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TIE POINTS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	23
CONTRACT NO. 78509				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -
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Default	PLOT DATE = 12/14/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TIE POINTS			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78509	

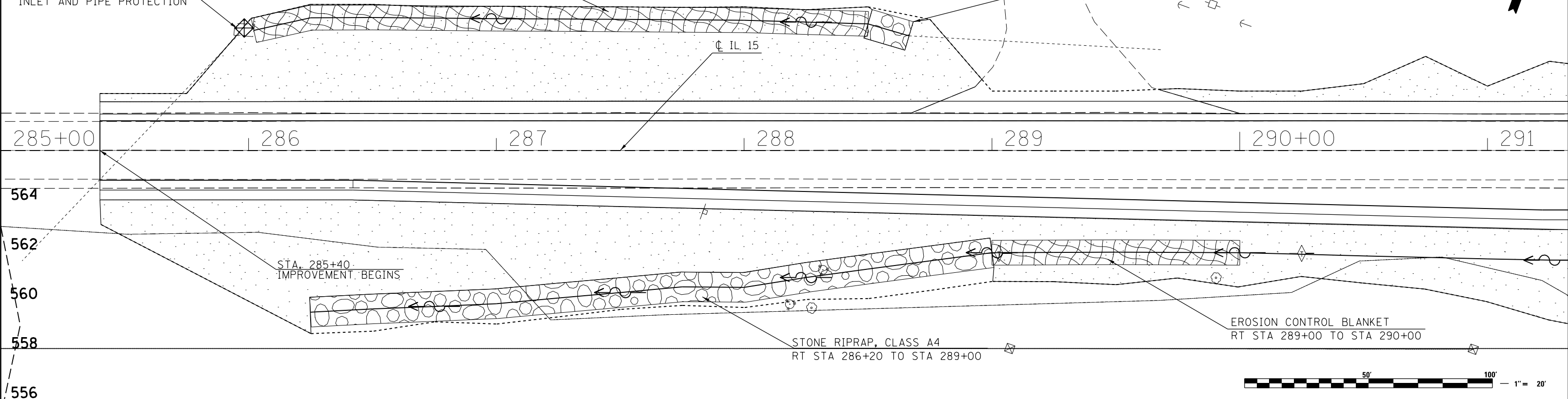
SEEDING, CLASS 2



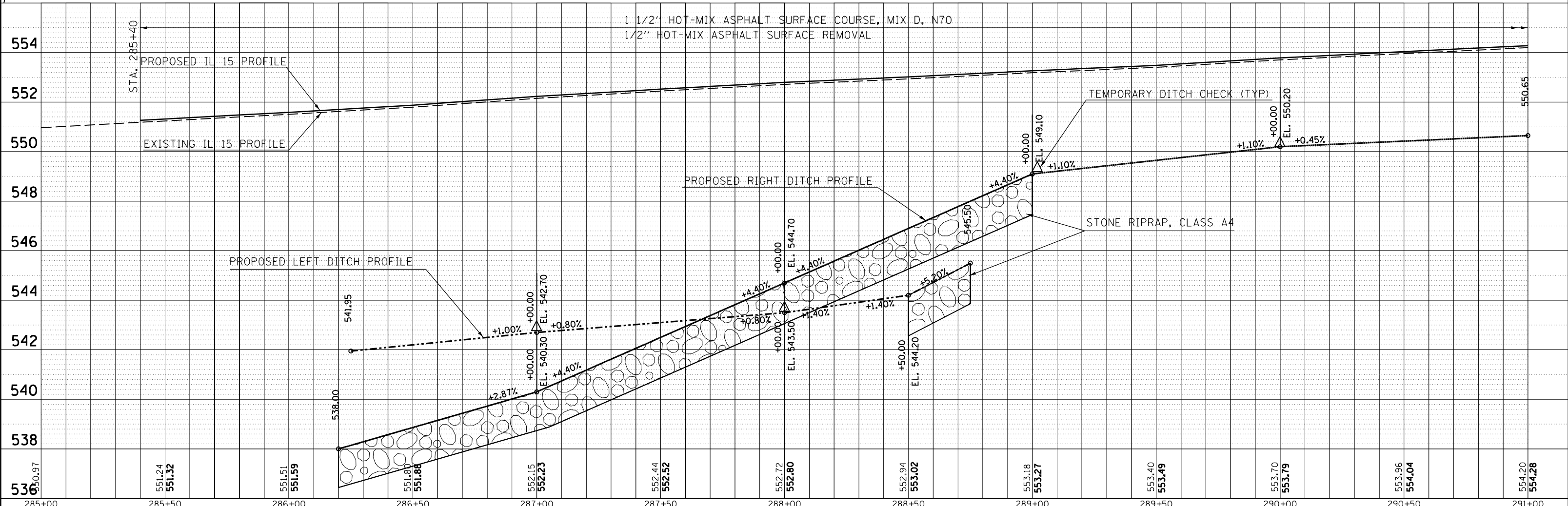
LT STA 286+00
INLET AND PIPE PROTECTION

EROSION CONTROL BLANKET
LT STA 286+00 TO 288+50

STONE RIPRAP, CLASS A4
LT STA 288+50 TO STA 288+75



1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70
1/2" HOT-MIX ASPHALT SURFACE REMOVAL



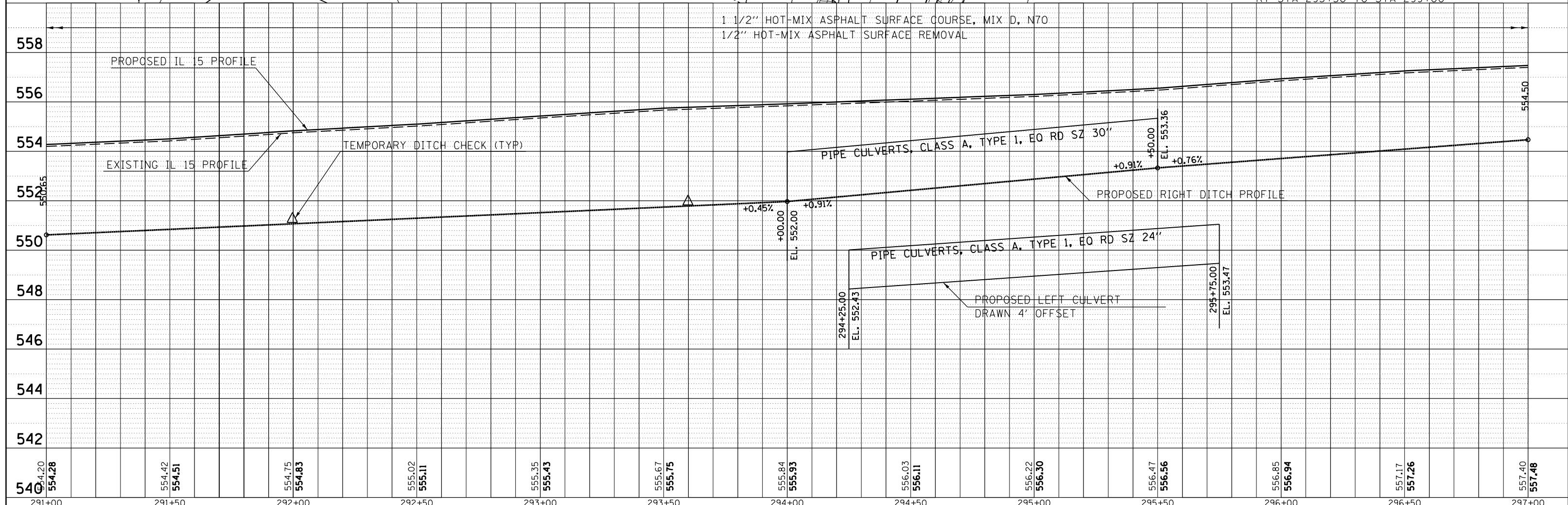
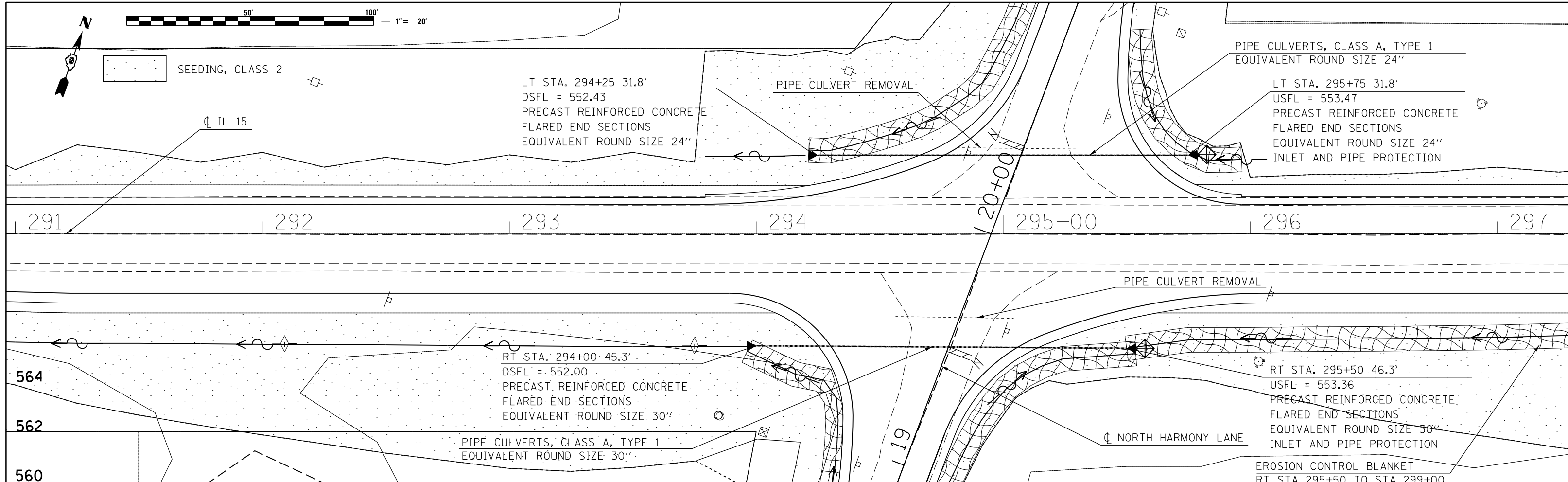
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN PROFILE /DRAINAGE /EROSION CONTROL IL 15			F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 26
PLOT SCALE = 37.7778' / in.	CHECKED -	REVISED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 78509				
Default	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							

PLAN
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____

PROFILE
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____



540	554.28	554.42	554.51	554.75	554.83	555.02	555.11	555.35	555.43	555.67	555.75	555.84	555.93	556.03	556.11	556.22	556.30	556.47	556.56	556.85	556.94	557.17	557.26	557.40	557.48
291+00	291+50	292+00	292+50	293+00	293+50	294+00	294+50	295+00	295+50	296+00	296+50	297+00													

FILE NAME = USER NAME = kranzjc
 DESIGNED - REVISIONS -
 DRAWN - REVISIONS -
 CHECKED - REVISIONS -
 DATE - REVISIONS -

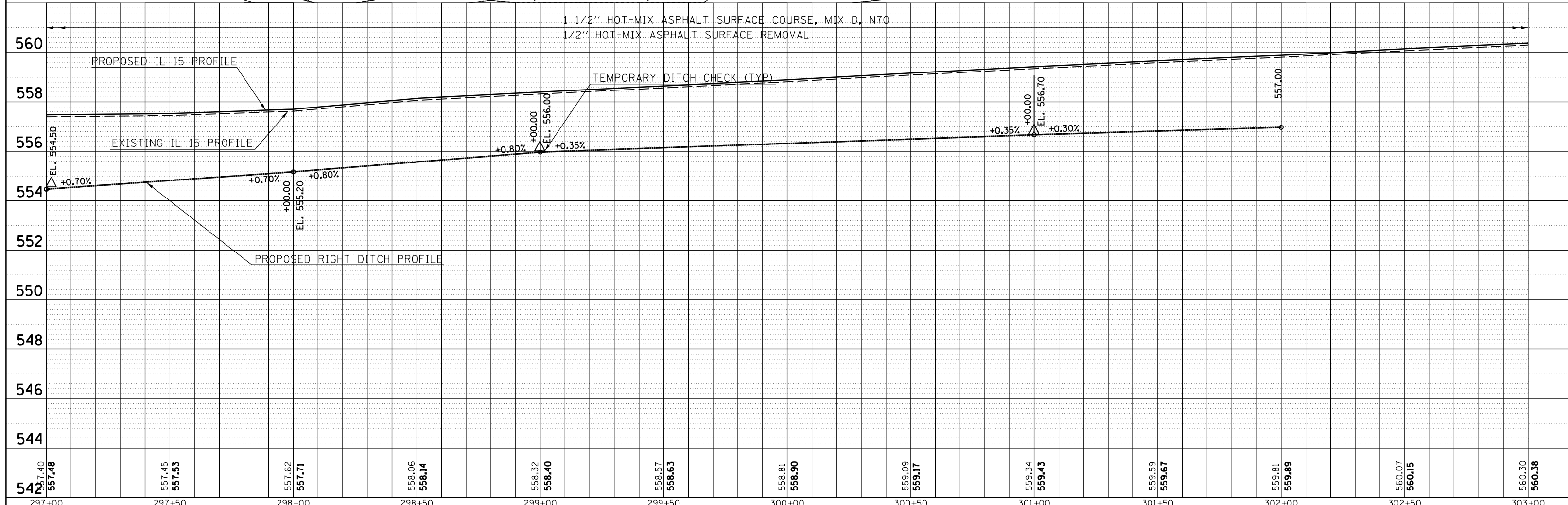
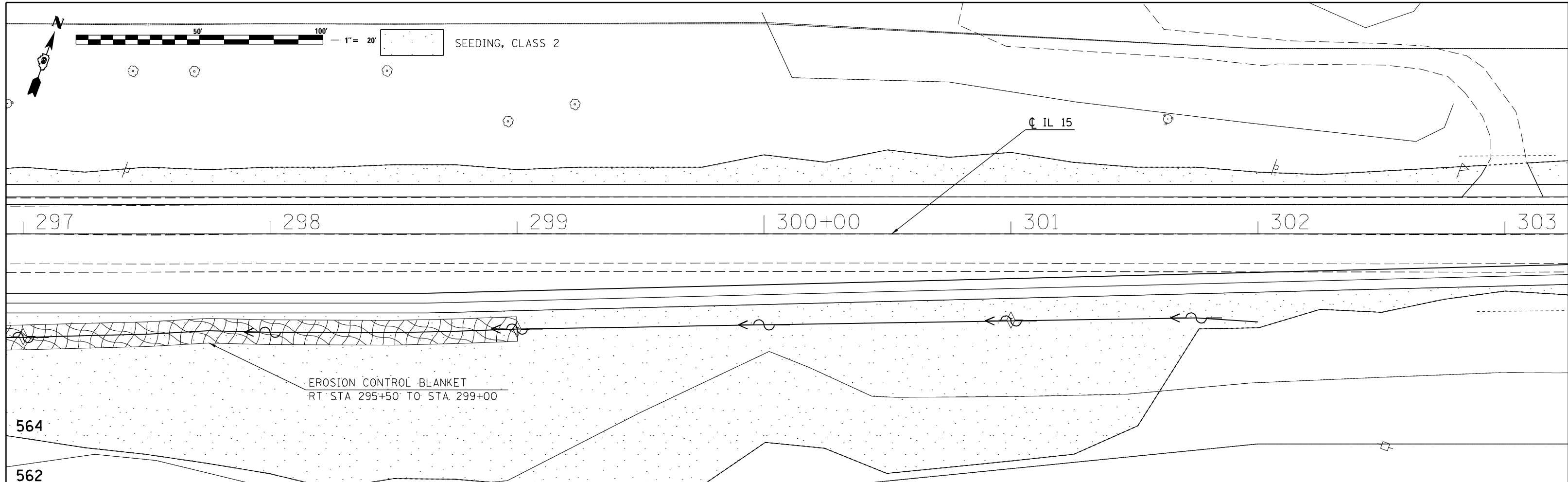
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN PROFILE / DRAINAGE / EROSION CONTROL
IL 15
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 27
CONTRACT NO. 78509			ILLINOIS FED. AID PROJECT	

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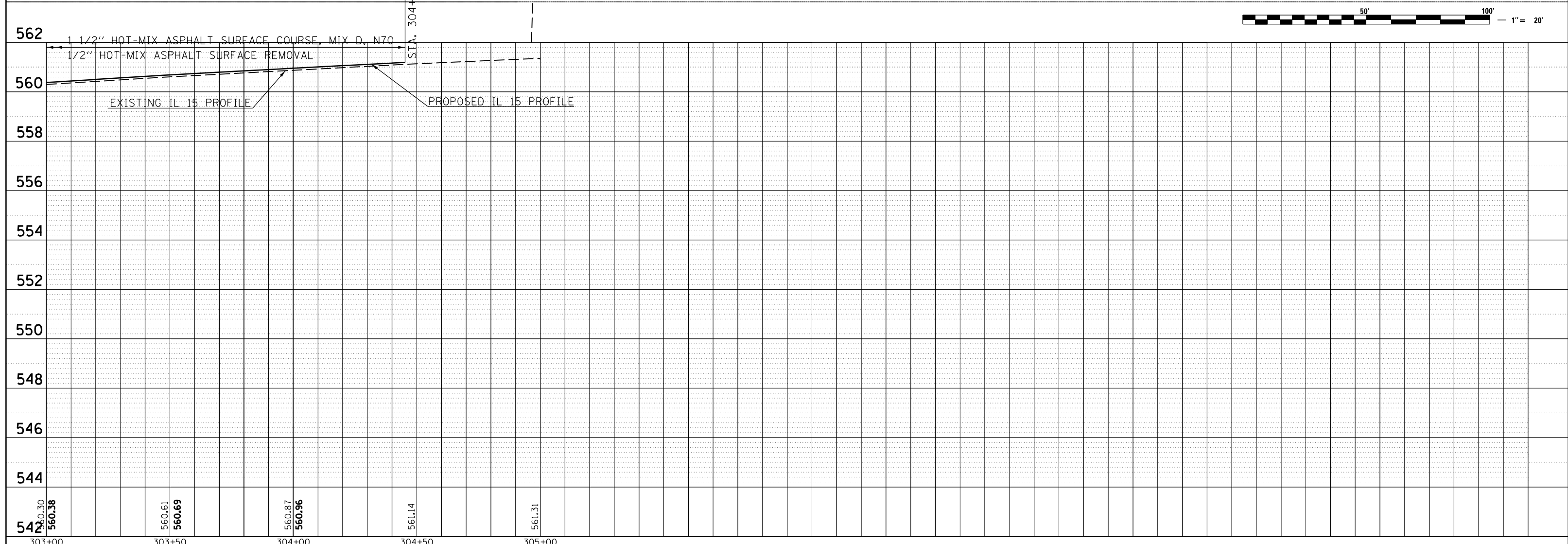
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN PROFILE /DRAINAGE /EROSION CONTROL IL 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 12/14/2016	DATE -	REVISED -			CONTRACT NO. 78509					
						ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	REVISIONS		
	RT. OF WAY CHECKED		
	CADD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	REVISIONS		
	STRUCTURE NOTATIONS CHKD		
	NO.		



FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN PROFILE / DRAINAGE / EROSION CONTROL IL 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 12/14/2016	DATE -	REVISED -			CONTRACT NO. 78509		ILLINOIS FED. AID PROJECT		
SCALE:		SHEET OF SHEETS		STA.	TO STA.					



EROSION CONTROL BLANKET
RT STA 293+89.2 (IL15) TO STA 18+25 HARMONY

EROSION CONTROL BLANKET
LT STA 293+79.4 (IL15) TO STA 21+62 HARMONY

EROSION CONTROL BLANKET
RT STA 296+06.3 (IL15) TO STA 18+25 HARMONY

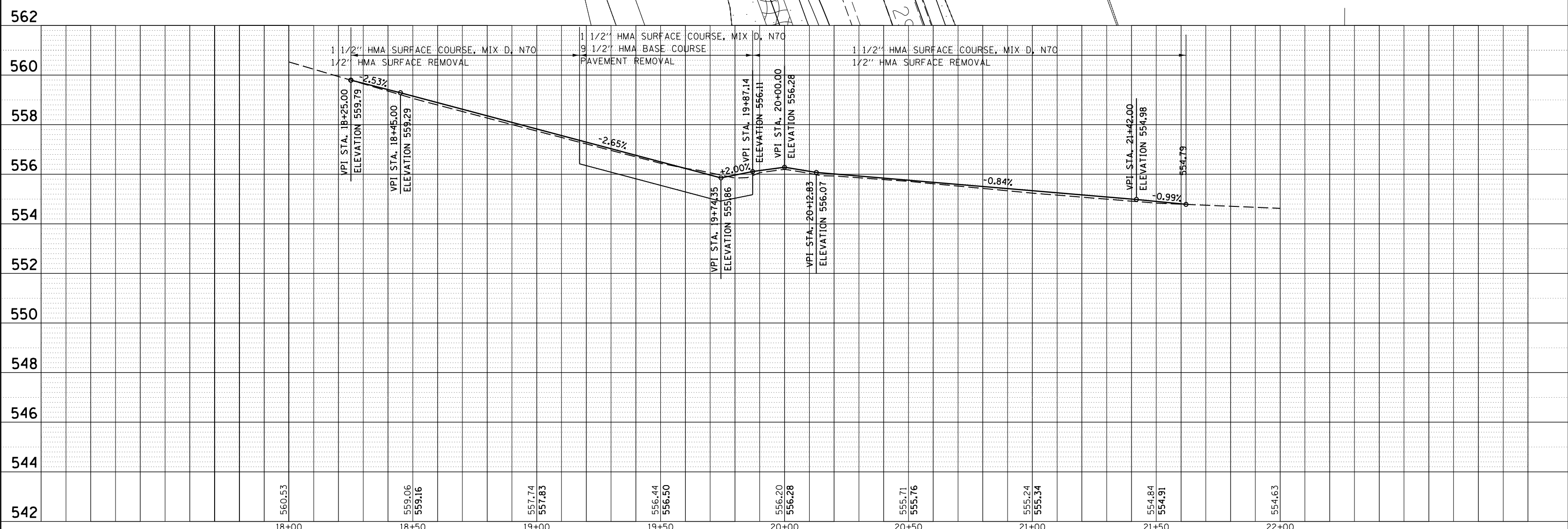
EROSION CONTROL BLANKET
LT STA 295+96.5 (IL15) TO STA 21+62 HARMONY

SEEDING, CLASS 2

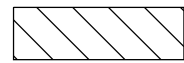


PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTED	BY
	REVISIONS	BY
	RT. OF WAY CHECKED	DATE
	CADD FILE NAME	

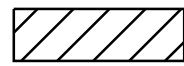
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTED	BY
	REVISIONS	BY
	STRUCTURE NOTATIONS CHKD	DATE



FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">PLAN PROFILE / DRAINAGE / EROSION CONTROL N HARMONY LANE</p>	F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 30	
CONTRACT NO. 78509	CONTRACT NO. 78509	DRAWN	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
Default	Default	CHECKED -	REVISED -							
		DATE -	REVISED -							

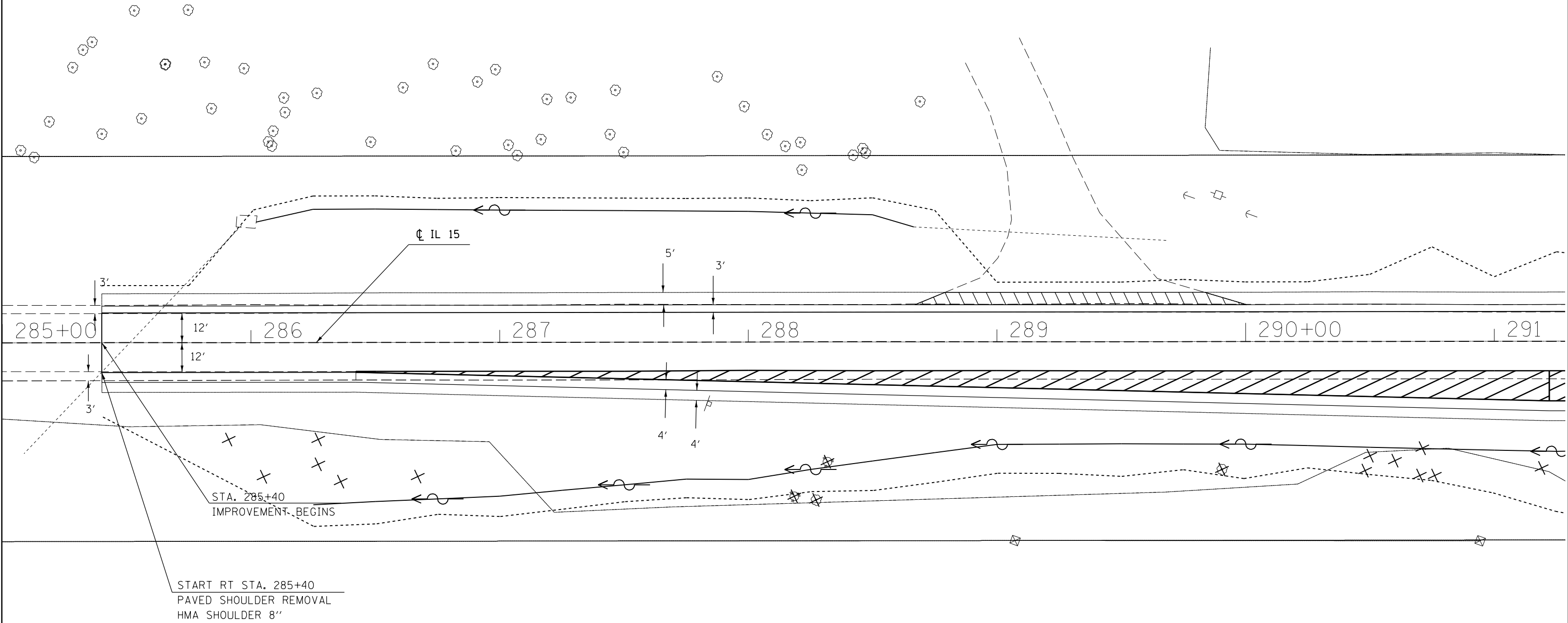


INCIDENTAL HMA SURFACING



HMA BASE COURSE 9 1/2"
HMA SURFACE COURSE 1 1/2"

X TREE REMOVAL



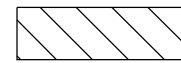
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Default	PLOT SCALE = 37.7778 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/14/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

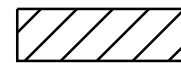
**CONSTRUCTION /REMOVAL SHEETS
IL 15**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78509	



INCIDENTAL HMA SURFACING



HMA BASE COURSE 9 1/2"
HMA SURFACE COURSE 1 1/2"



HMA BASE COURSE 9 1/2"
HMA SURFACE COURSE 1 1/2"
PAVEMENT REMOVAL



X TREE REMOVAL

STA. 294+95.09 IL 15 =
STA. 20+00 NORTH HARMONY LANE

CL IL 15

CL NORTH HARMONY LANE

292

293

294

295+00

296

297

118

119

121

122

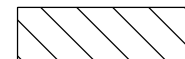
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Default	PLOT SCALE = 37.7778 ' / in.	DATE -	REVISED -
	PLOT DATE = 12/14/2016		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION /REMOVAL SHEETS
IL 15

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78509	



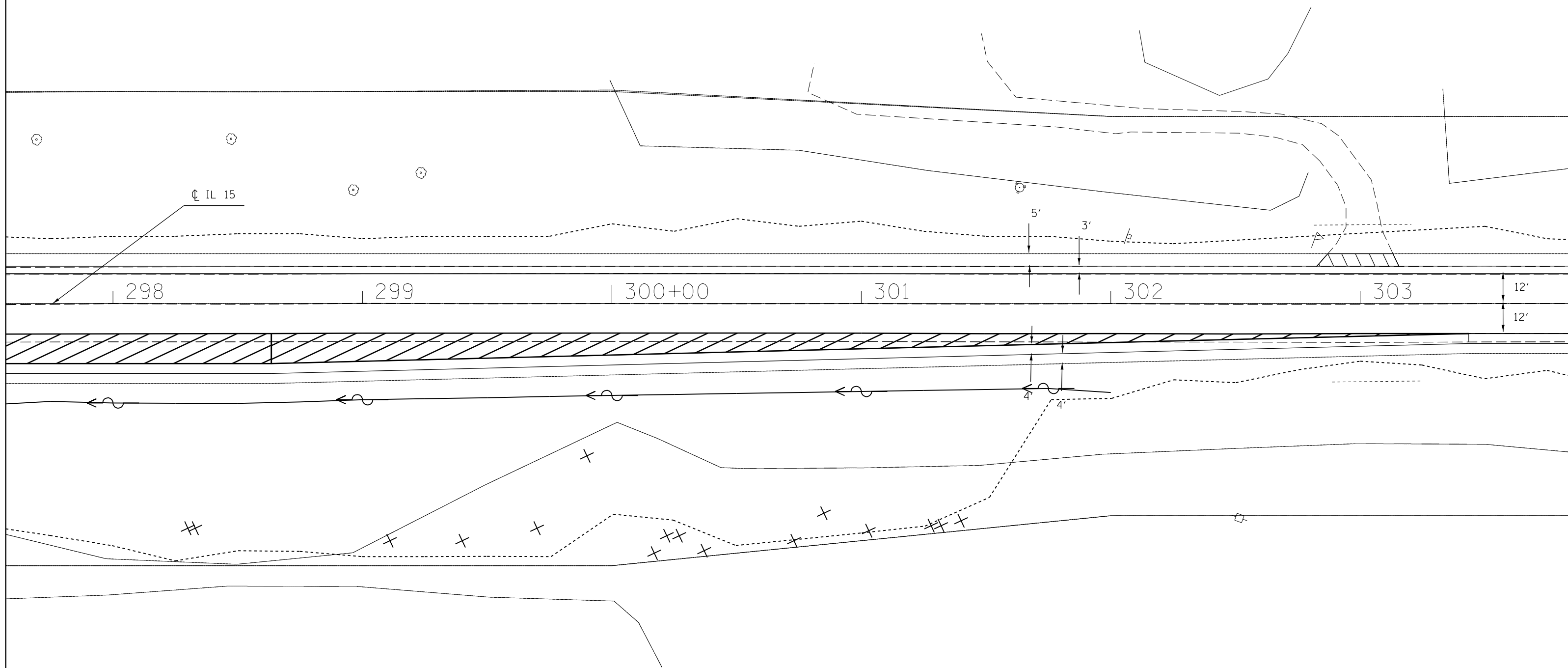
INCIDENTAL HMA SURFACING



HMA BASE COURSE 9 1/2"
HMA SURFACE COURSE 1 1/2"



TREE REMOVAL

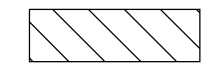


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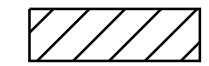
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION /REMOVAL SHEETS			
IL 15			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	33
ILLINOIS FED. AID PROJECT				
CONTRACT NO. 78509				



INCIDENTAL HMA SURFACING



HMA BASE COURSE 9 1/2"
HMA SURFACE COURSE 1 1/2"



TREE REMOVAL



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION /REMOVAL SHEETS
IL 15**

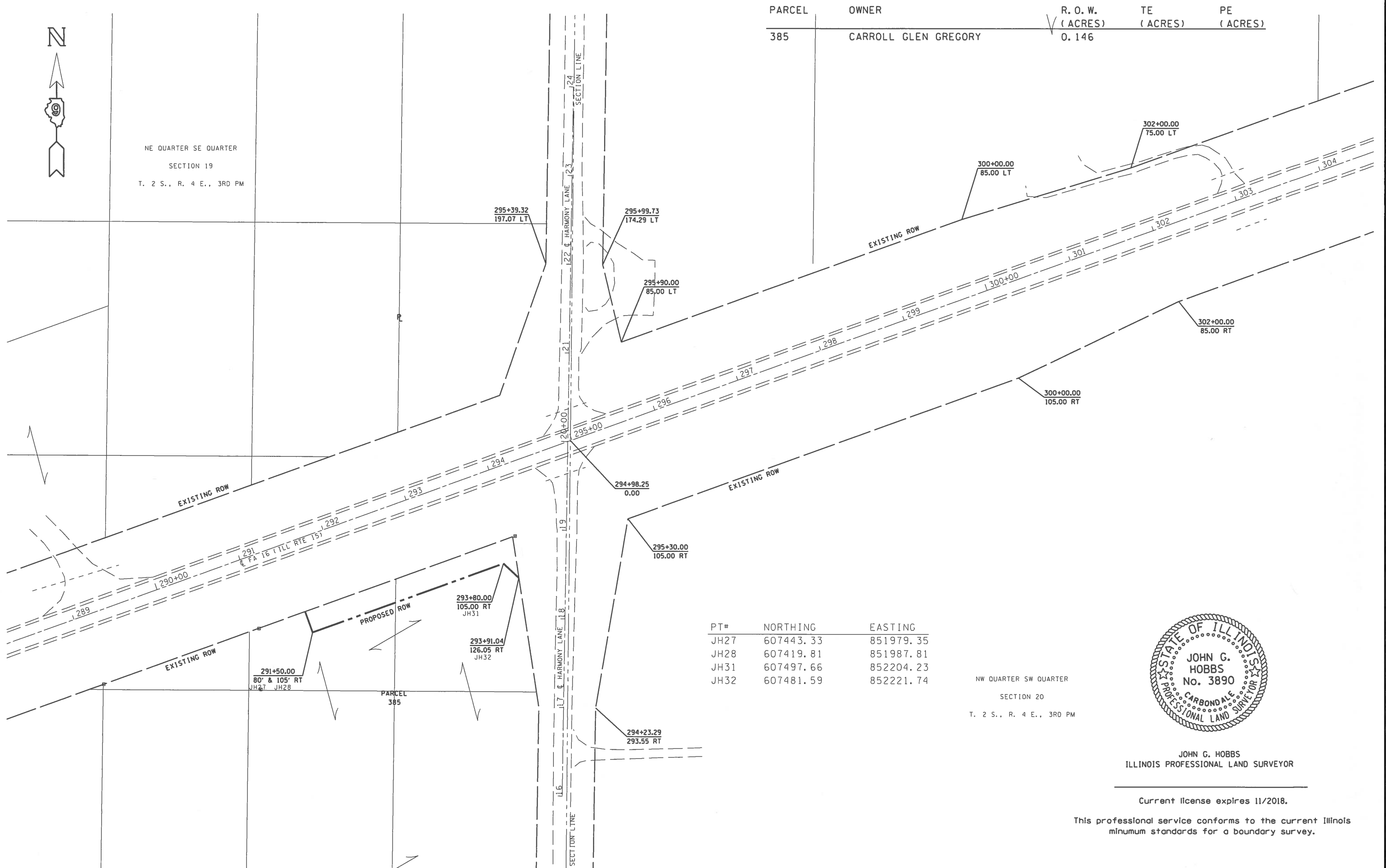
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821	16-2(N-1)	JEFFERSON	110	34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78509	

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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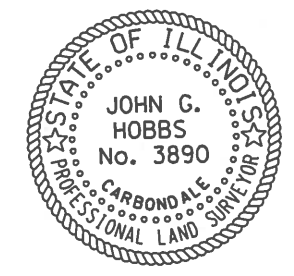
NE QUARTER SE QUARTER
SECTION 19
T. 2 S., R. 4 E., 3RD PM

PARCEL	OWNER	R. O. W. (ACRES)	TE (ACRES)	PE (ACRES)
385	CARROLL GLEN GREGORY	0.146		



PT#	NORTHING	EASTING
JH27	607443.33	851979.35
JH28	607419.81	851987.81
JH31	607497.66	852204.23
JH32	607481.59	852221.74

NW QUARTER SW QUARTER
SECTION 20
T. 2 S., R. 4 E., 3RD PM

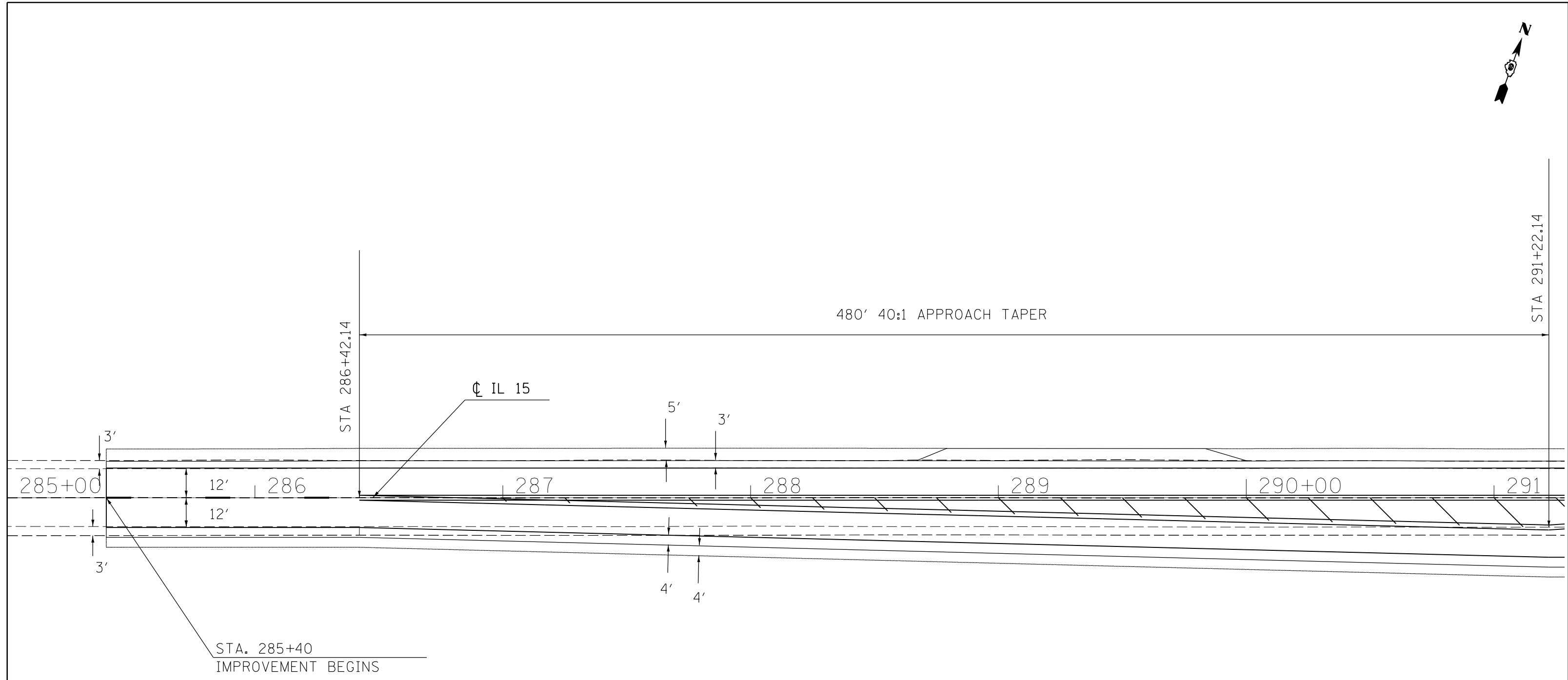


JOHN G. HOBBS
ILLINOIS PROFESSIONAL LAND SURVEYOR

Current license expires 11/2018.

This professional service conforms to the current Illinois minimum standards for a boundary survey.

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLAN IL 15/HARMONY LANE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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MODELNAME =	PLOT DATE = 1/3/2017	DATE -	REVISED -			SCALE: 1" = 100' SHEET 1 OF 1 SHEETS STA. 289+00.00 TO STA. 304+00.00		R-99-008-16 ILLINOIS FED. AID PROJECT			
CONTRACT NO. 78509											

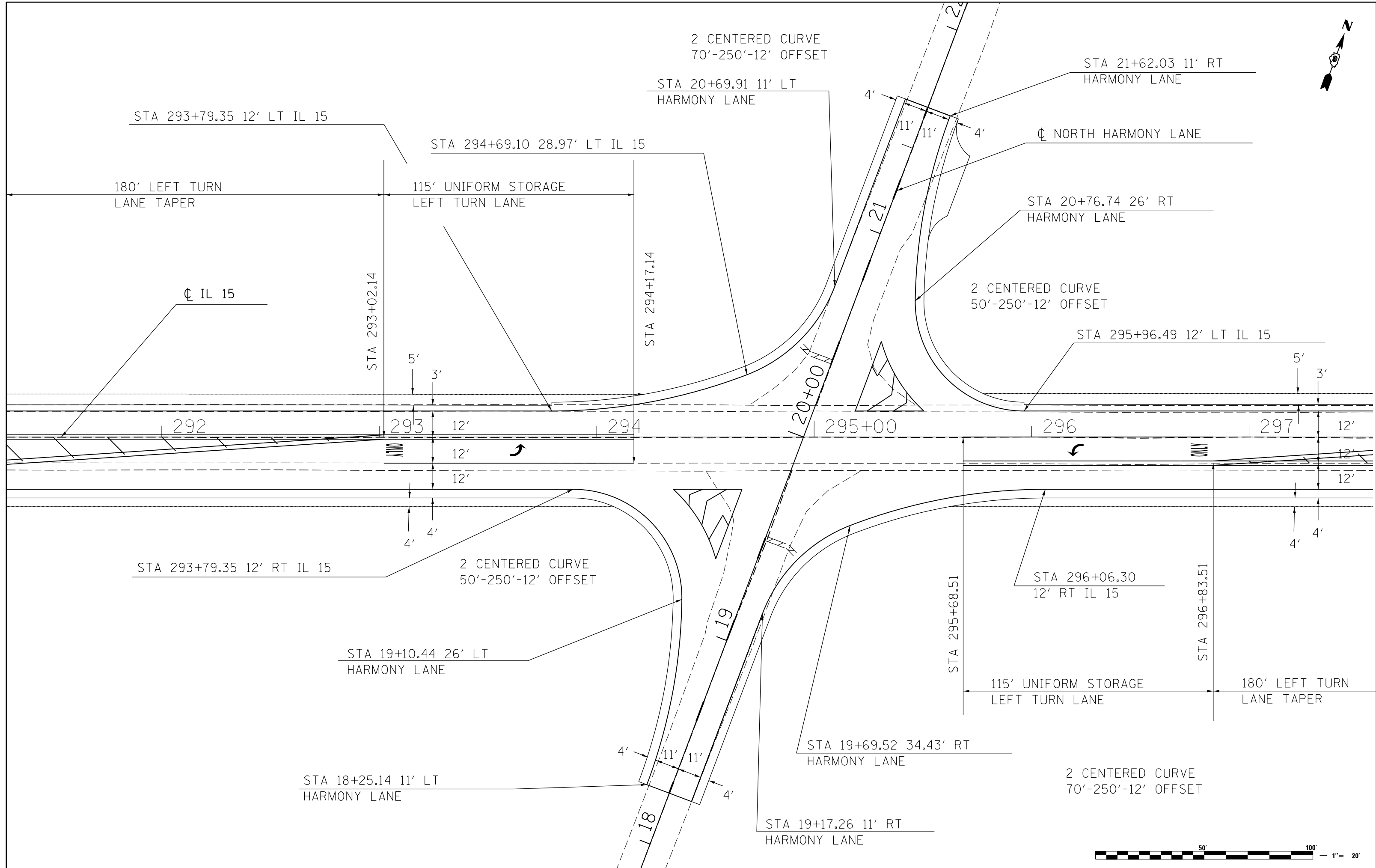


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	PLOT DATE = 12/14/2016		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

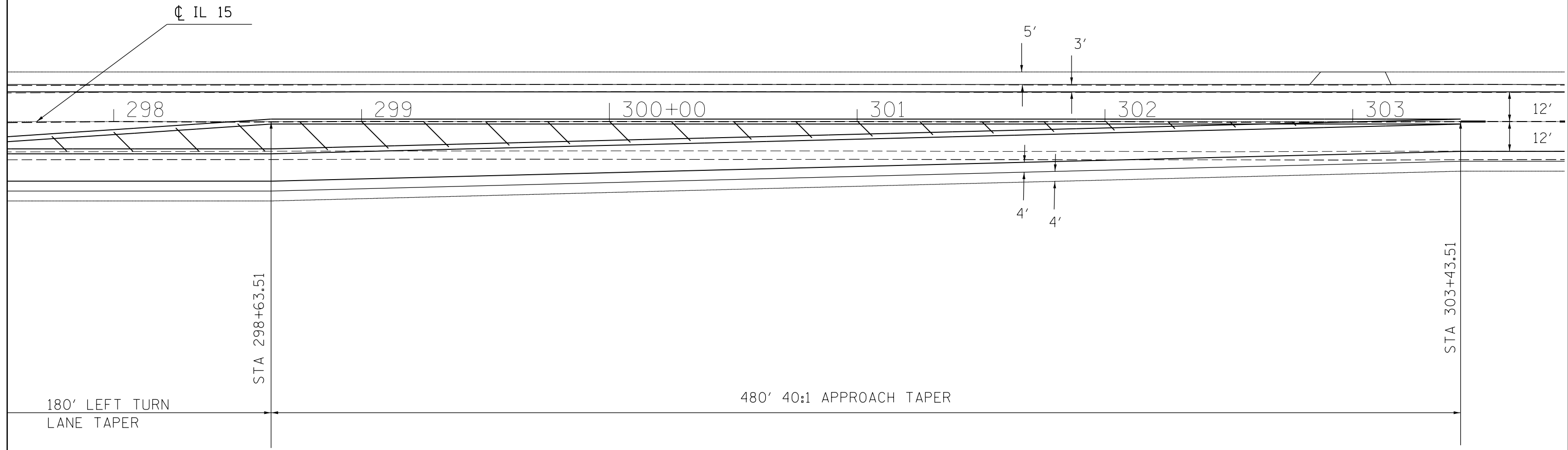
GEOMETRIC SHEET			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78509	



FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GEOMETRIC SHEET			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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Default		PLOT SCALE = 37.7778' / in.	CHECKED -		REVISED -										
		PLOT DATE = 12/14/2016	DATE -		REVISED -										

ILLINOIS FED. AID PROJECT



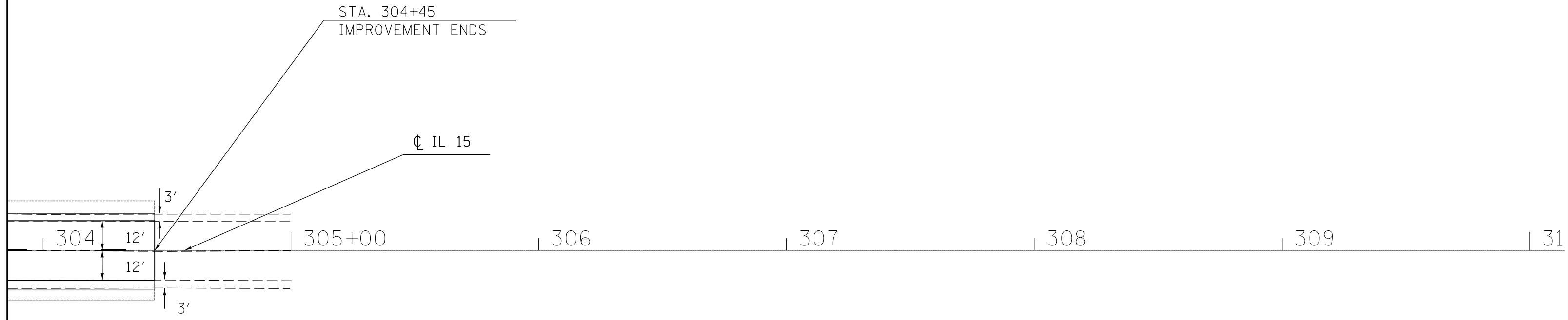
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Default	PLOT SCALE = 37.7778' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/14/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GEOMETRIC SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	38
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78509	



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	PLOT SCALE = 37.7778' / in.	CHECKED -	REVISED -					821	16-2(N-1)	JEFFERSON	110	39
	PLOT DATE = 12/14/2016	DATE -	REVISED -					CONTRACT NO. 78509				
Default					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

STATIONING ALONG ILLINOIS 15	OFFSET TO E.P. FEET	EDGE OF PAV'T ELEV. FEET	STATIONING ALONG N HARMONY LN	OFFSET TO E.P. FEET	STATIONING ALONG NW QUAD	DISTANCE ALONG RADIUS FEET
		554.64	21+62.	11.00	0+50.33	
		554.71	21+52.83	11.00	0+60.	9.67
		554.81	21+42.83	11.00	0+70.	10.00
		554.90	21+32.83	11.00	0+80.	10.00
		554.98	21+22.83	11.00	0+90.	10.00
		555.07	21+12.83	11.00	1+00.	10.00
		555.15	21+02.83	11.00	1+10.	10.00
		555.23	20+92.83	11.00	1+20.	10.00
		555.32	20+82.83	11.00	1+30.	10.00
		555.40	20+72.83	11.00	1+40.	10.00
295+09.47	62.30	555.43	20+69.91	11.00	1+42.91	2.91
295+06.63	62.80	555.48	20+62.84	11.36	1+50.	7.09
295+01.55	54.20	555.56	20+52.99	13.08	1+60.	10.00
294+95.3	46.41	555.62	20+43.5	16.18	1+70.	10.00
294+88.	39.58	555.67	20+34.54	20.60	1+80.	10.00
294+79.81	33.87	555.71	20+26.3	26.25	1+90.	10.00
294+70.88	29.38	555.74	20+18.95	33.02	2+00.	10.00
294+61.51	25.89	555.76	20+12.37	40.55	2+10.	10.00
294+52.	22.79	555.77	20+06.12	48.36	2+20.	10.00
294+42.38	20.08	555.77	20+00.18	56.40	2+30.	10.00
294+32.65	17.75	555.76	19+94.58	64.68	2+40.	10.00
294+22.84	15.81	555.74	19+89.3	73.18	2+50.	10.00
294+12.97	14.27	555.71	19+84.37	81.88	2+60.	10.00
294+03.03	13.12	555.67	19+79.79	90.77	2+70.	10.00
293+93.06	12.38	555.64	19+75.58	99.83	2+80.	10.00
293+83.07	12.03	555.60	19+71.22	109.06	2+90.	10.00
293+79.35	12.00	555.59	19+70.39	112.53	2+93.72	3.72

STATIONING ALONG N HARMONY LN	OFFSET TO E.P. FEET	EDGE OF PAV'T ELEV. FEET	STATIONING ALONG ILLINOIS 15	OFFSET TO E.P. FEET	STATIONING ALONG NE QUAD	DISTANCE ALONG RADIUS FEET
20+47.01	90.64	556.65	295+96.49	12.00	0+00.	
20+44.44	81.00	556.56	295+86.56	13.00	0+10.	10.00
20+43.83	71.03	556.47	295+77.02	15.95	0+20.	10.00
20+45.22	61.15	556.35	295+68.26	20.73	0+30.	10.00
20+48.54	51.73	556.22	295+60.62	27.16	0+40.	10.00
20+53.67	43.17	556.08	295+54.42	34.98	0+50.	10.00
20+60.4	35.79	555.92	295+49.89	43.88	0+60.	10.00
20+68.46	29.90	555.74	295+47.22	53.50	0+70.	10.00
20+77.52	25.72	555.56	295+46.51	63.46	0+80.	10.00
20+87.	22.53	555.39	295+46.86	73.45	0+90.	10.00
20+96.6	19.72	555.24	295+47.62	83.42	1+00.	10.00
21+06.3	17.29	555.10	295+48.78	93.36	1+10.	10.00
21+16.09	15.26	554.98	295+50.33	103.23	1+20.	10.00
21+25.95	13.62	554.87	295+52.28	113.04	1+30.	10.00
21+35.87	12.37	554.78	295+54.61	122.76	1+40.	10.00
21+45.84	11.53	554.71	295+57.34	132.39	1+50.	10.00
21+55.82	11.08	554.65	295+60.44	141.89	1+60.	10.00
21+62.	11.00	554.62	295+62.56	147.72	1+66.21	6.21



☐ NORTH HARMONY LANE

☐ IL 15

STATIONING ALONG N HARMONY LN	OFFSET TO E.P. FEET	EDGE OF PAV'T ELEV. FEET	STATIONING ALONG ILLINOIS 15	OFFSET TO E.P. FEET	STATIONING ALONG SW QUAD	DISTANCE ALONG RADIUS FEET
19+40.16	90.64	555.38	293+89.16	24.00	0+00.	
19+42.74	81.00	555.43	293+99.09	26.00	0+10.	10.00
19+43.34	71.03	555.52	294+08.63	27.95	0+20.	10.00
19+41.95	61.15	555.63	294+17.39	32.73	0+30.	10.00
19+38.63	51.73	555.78	294+25.03	39.16	0+40.	10.00
19+33.5	43.17	555.96	294+31.23	46.98	0+50.	10.00
19+26.78	35.79	556.17	294+35.76	55.88	0+60.	10.00
19+18.72	29.90	556.41	294+38.43	65.50	0+70.	10.00
19+09.65	25.72	556.69	294+39.14	75.46	0+80.	10.00
19+00.18	22.53	557.00	294+38.79	85.45	0+90.	10.00
18+90.58	19.72	557.34			1+00.	10.00
18+80.88	17.29	557.71			1+10.	10.00
18+71.09	15.26	558.11			1+20.	10.00
18+61.22	13.62	558.50			1+30.	10.00
18+51.3	12.37	558.85			1+40.	10.00
18+41.34	11.53	559.17			1+50.	10.00
18+31.35	11.08	559.46			1+60.	10.00
18+25.	11.00	559.63			1+66.35	6.35

STATIONING ALONG ILLINOIS 15	OFFSET TO E.P. FEET	EDGE OF PAV'T ELEV. FEET	STATIONING ALONG N HARMONY LN	OFFSET TO E.P. FEET	STATIONING ALONG SE QUAD	DISTANCE ALONG RADIUS FEET
		559.63	18+25.	11.00	0+25.02	
		559.50	18+29.98	11.00	0+30.	4.98
		559.25	18+39.98	11.00	0+40.	10.00
		558.99	18+49.98	11.00	0+50.	10.00
		558.73	18+59.98	11.00	0+60.	10.00
		558.46	18+69.98	11.00	0+70.	10.00
294+63.03	116.18	558.19	18+79.98	11.00	0+80.	10.00
294+66.56	106.82	557.93	18+89.98	11.00	0+90.	10.00
294+70.09	97.47	557.66	18+99.98	11.00	1+00.	10.00
294+73.61	88.11	557.40	19+09.98	11.00	1+10.	10.00
294+77.19	78.77	557.13	19+19.98	11.05	1+20.	10.00
294+81.73	69.87	556.89	19+29.91	12.15	1+30.	10.00
294+87.48	61.70	556.68	19+39.58	14.66	1+40.	10.00
294+94.34	54.44	556.51	19+48.8	18.51	1+50.	10.00
295+02.16	48.22	556.36	19+57.38	23.64	1+60.	10.00
295+10.79	43.18	556.25	19+65.14	29.93	1+70.	10.00
295+20.03	39.36	556.17	19+71.97	37.22	1+80.	10.00
295+29.48	36.10	556.12	19+78.36	44.92	1+90.	10.00
295+39.05	33.21	556.10	19+84.44	52.86	2+00.	10.00
295+48.74	30.72	556.12	19+90.19	61.04	2+10.	10.00
295+58.51	28.61	556.17	19+95.61	69.44	2+20.	10.00
295+68.36	26.90	556.23	20+00.69	78.05	2+30.	10.00
295+78.27	25.58	556.29	20+05.42	86.86	2+40.	10.00
295+88.23	24.65	556.36	20+09.8	95.85	2+50.	10.00
295+98.22	24.13	556.42	20+13.81	105.01	2+60.	10.00
296+06.3	24.00	556.47	20+16.79	112.53	2+68.09	8.09



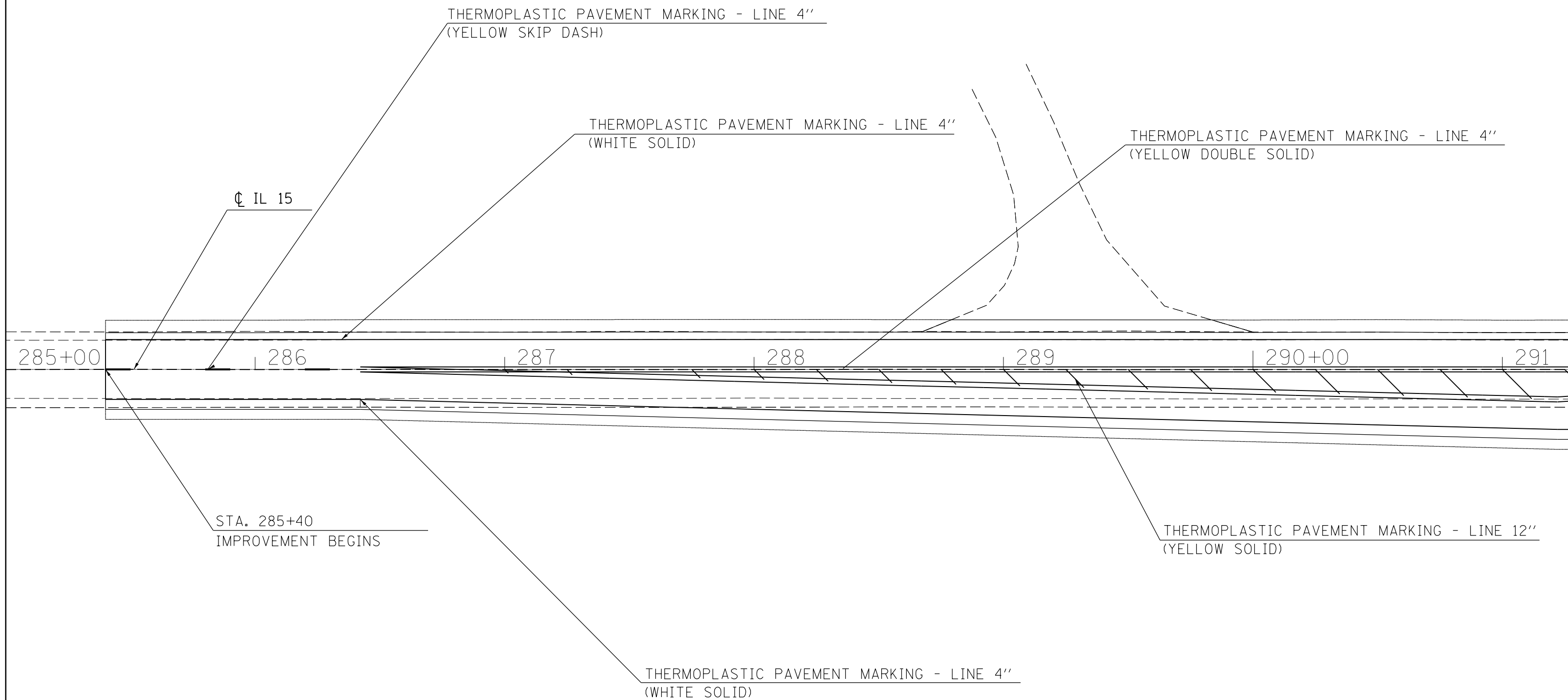
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	PLOT DATE = 12/14/2016		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GEOMETRIC SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 40
[ILLINOIS] FED. AID PROJECT			CONTRACT NO. 78509	

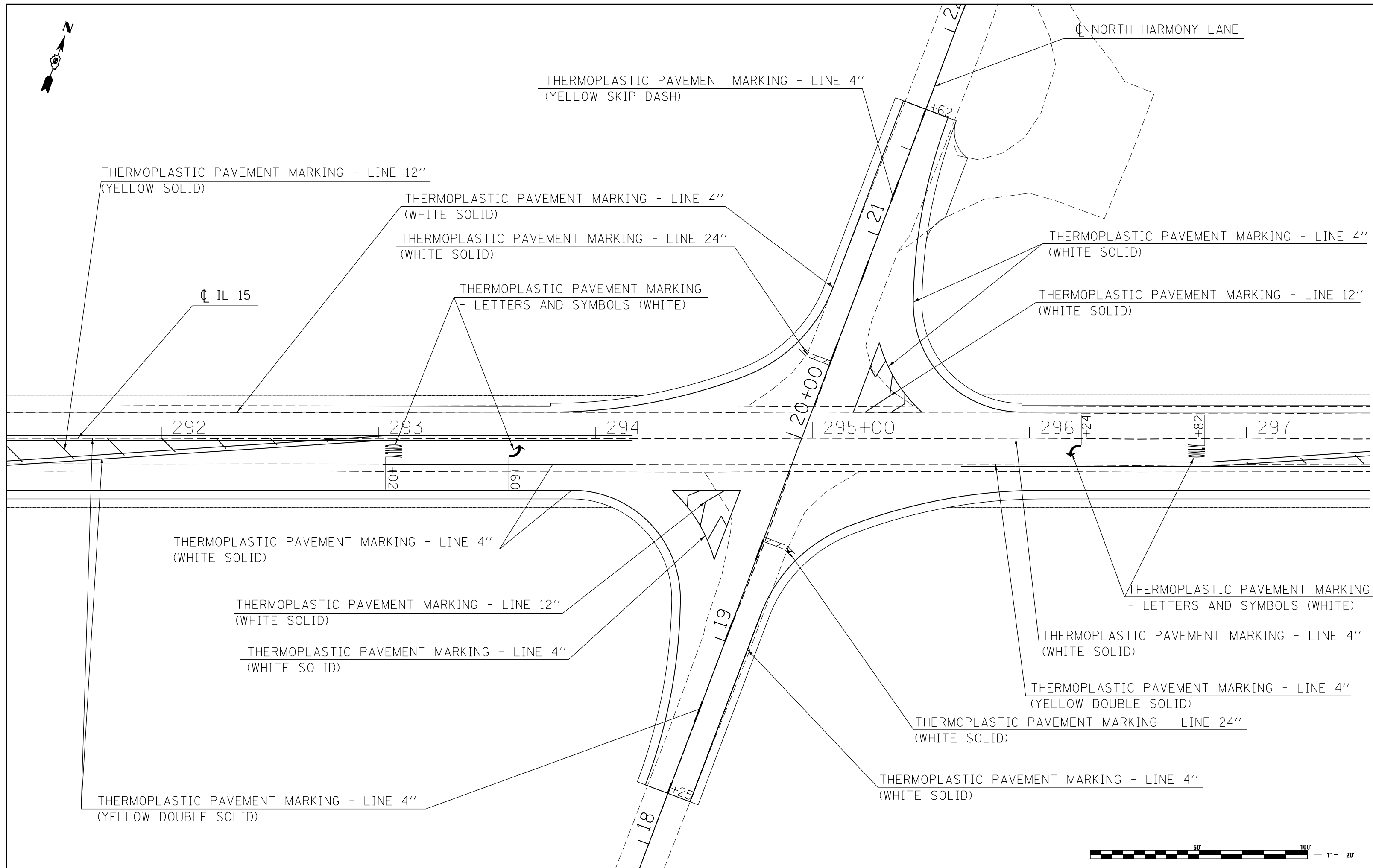


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	PLOT DATE = 12/14/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	41
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78509	

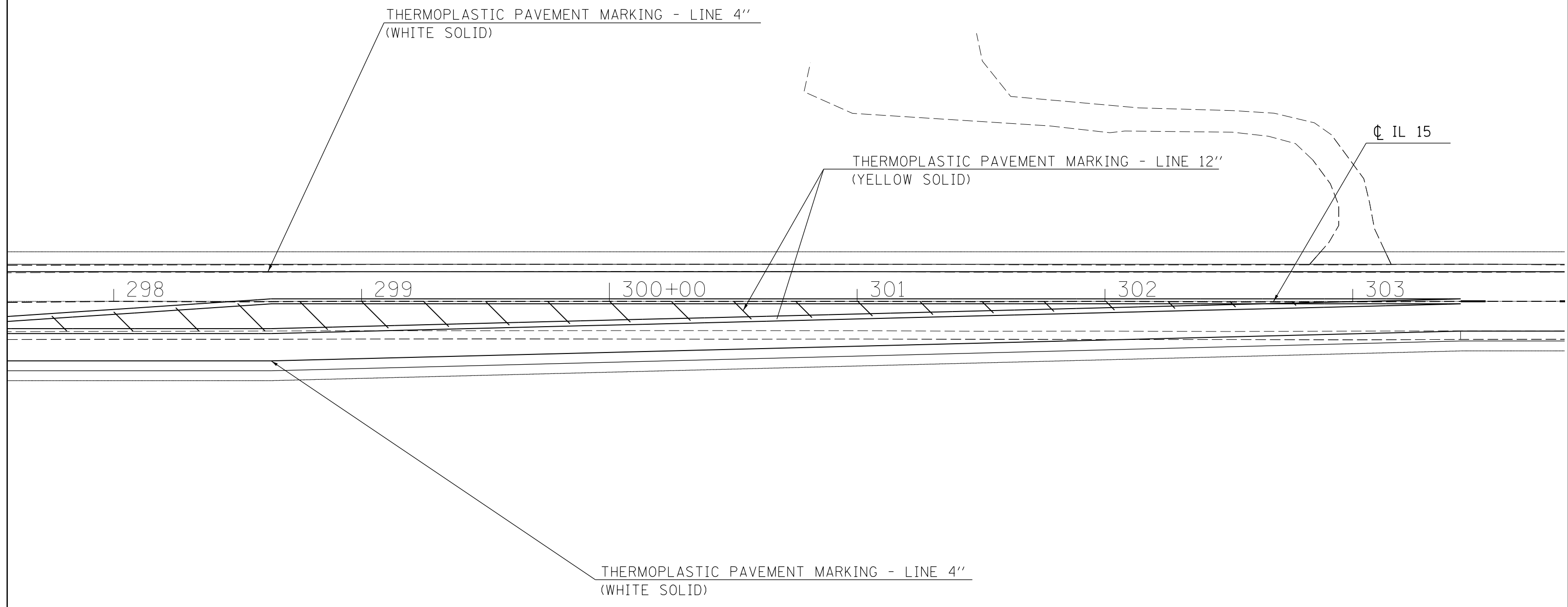


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	PLOT DATE = 12/14/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	42
CONTRACT NO. 78509				
ILLINOIS FED. AID PROJECT				

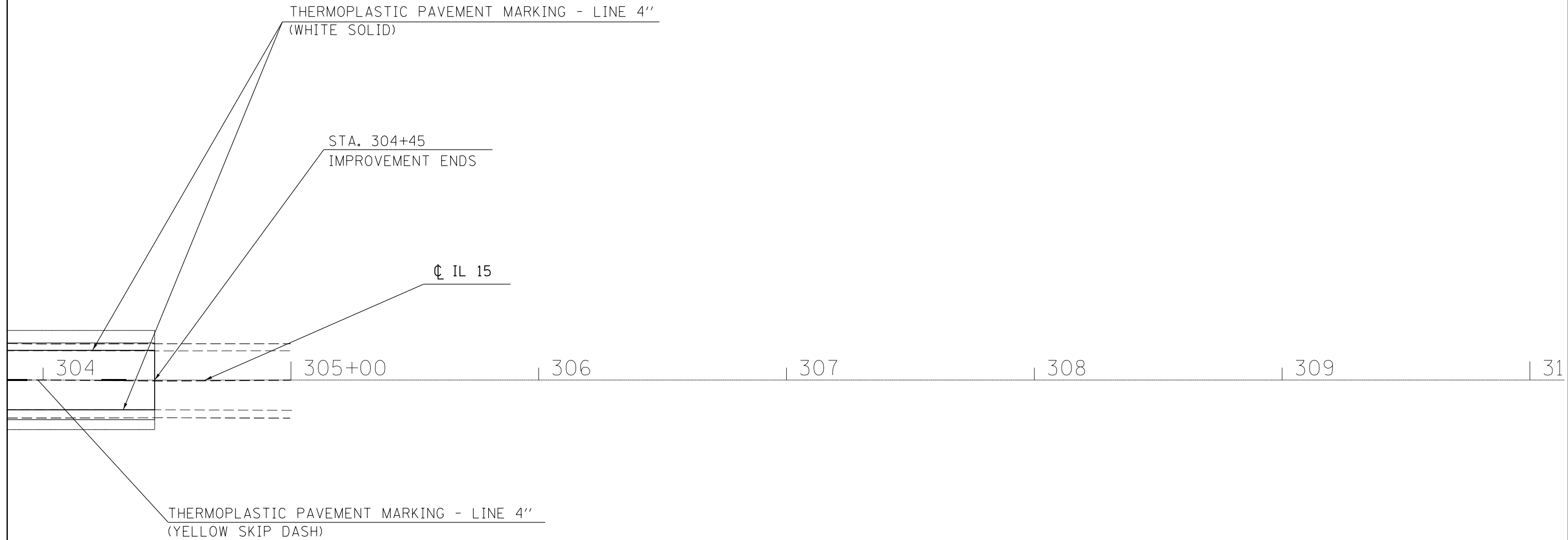


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	PLOT DATE = 12/14/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 43
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78509	



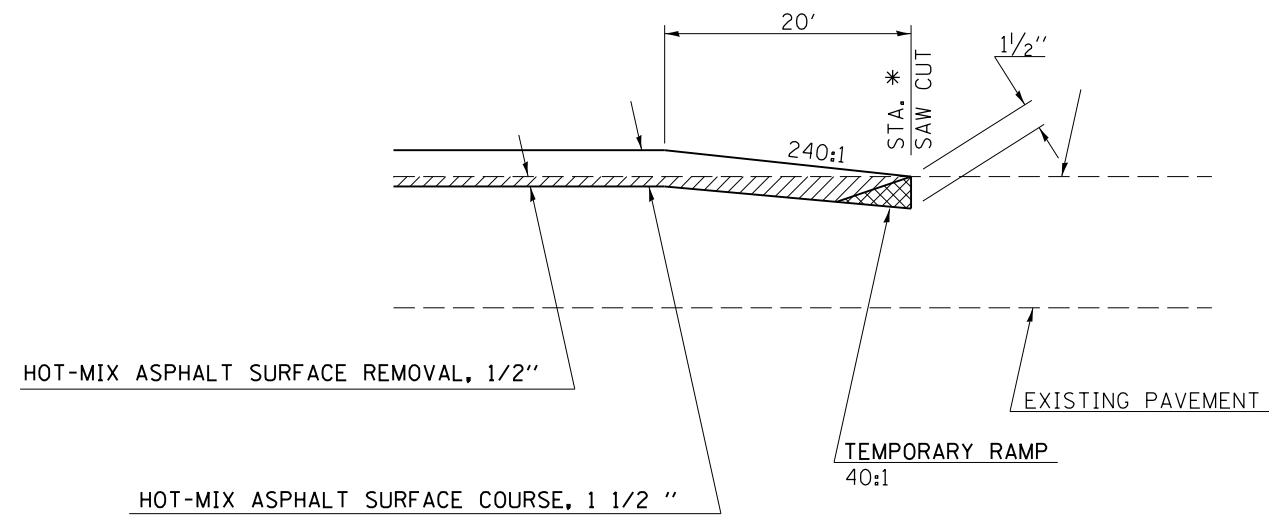
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Default	PLOT SCALE = 37.7778' / in.	DATE -	REVISED -
	PLOT DATE = 12/14/2016		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78509	

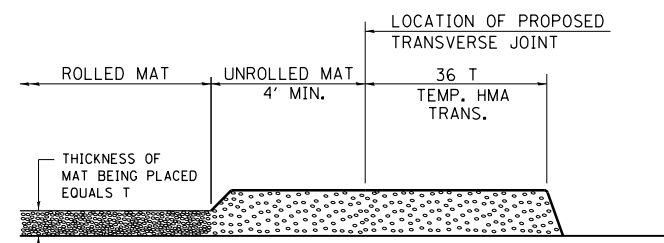
BUTT JOINT DETAILS



*** TO BE USED:**
 STA. 285+40 IL15
 STA. 304+45 IL15
 STA. 18+25 N HARMONY
 STA. 21+62 N HARMONY

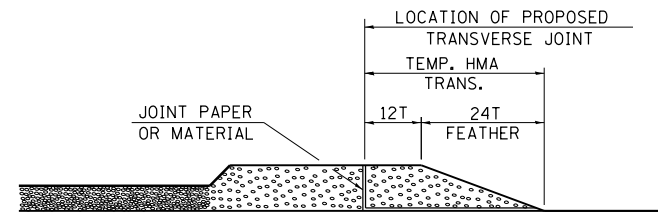
FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS: BUTT JOINT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 9\Projects\78509\Drawings\CAD\Sheets\78509-shu-details.dwg								821	16-2(N-1)	JEFFERSON	110	45
Default	PLOT SCALE = 94.4444' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT CONTRACT NO. 78509				

TEMPORARY HOT-MIX ASPHALT TRANSITIONS



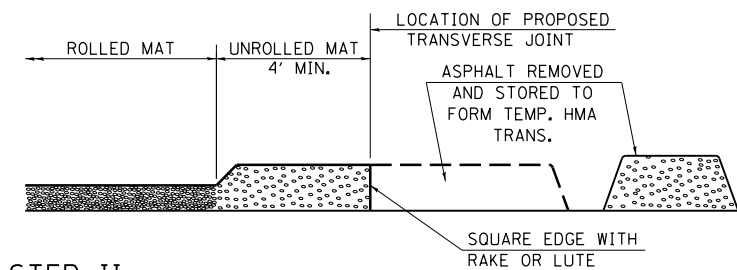
STEP I

1. PLACE HOT-MIX ASPHALT MAT, LENGTH 36 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



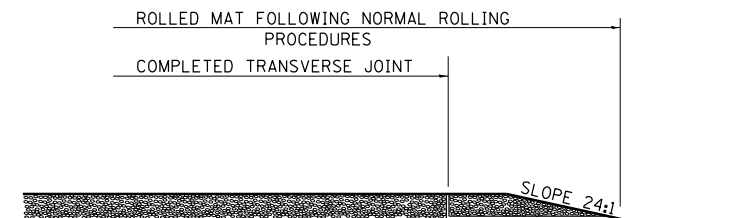
STEP III

1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
2. NOTE THAT IN CONSTRUCTING THE TRANSITION, THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



STEP II

1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY HOT-MIX ASPHALT TRANSITION.
2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



STEP IV

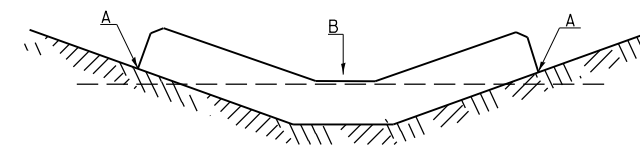
1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL NOT BE PAID FOR SEPARATELY IN ACCORDANCE WITH ARTICLE 406.14 OF THE STANDARD SPECIFICATIONS.

STD. 9-26

REVISIONS	
REDRAWN	2-15-89
REVISED	8-16-94
REVISED	01-09-07
RESIZED	05-8-08

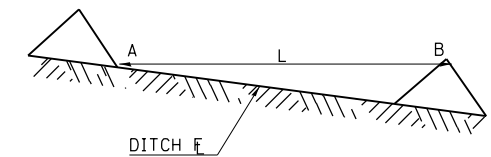
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS

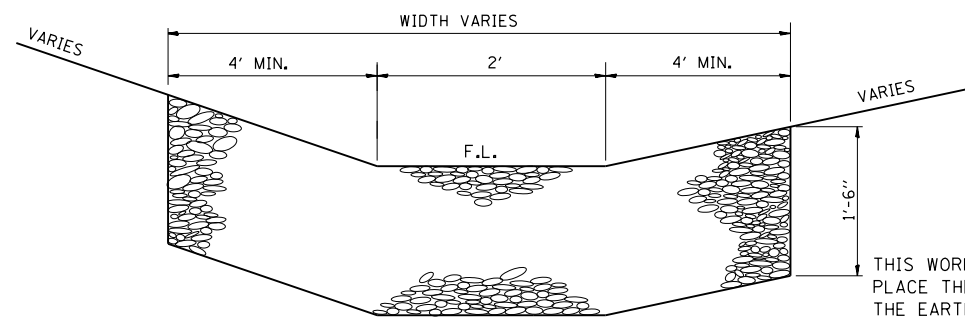


L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION
B = THE LOW POINT IN CENTER OF CHECK

STD. 9-108

REVISIONS	
DRAWN	9-01-99
REVISED	10-3-01
REVISED	05-04-10

TYPICAL DETAIL OF STONE RIPRAP DITCH LINING



NOTES

THIS WORK INCLUDES THE EARTH EXCAVATION REQUIRED TO PLACE THE RIPRAP AS SHOWN. THE MATERIAL RESULTING FROM THE EARTH EXCAVATION SHALL BE PLACED IN THE ROADWAY EMBANKMENT, OR WASTED AS DIRECTED BY THE ENGINEER. THE EARTHWORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE DITCH.

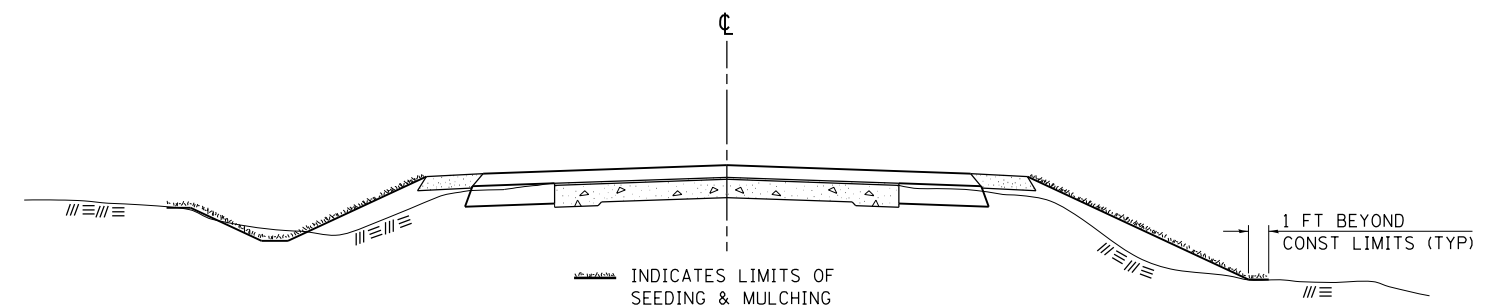
THE RIPRAP DITCH SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. CONSTRUCTION OF THE STONE RIPRAP DITCH SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A4 RIPRAP AS INDICATED IN SECTION 281 OF STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SO YD FOR **STONE RIPRAP, CLASS A4**, WHICH PRICE SHALL INCLUDE ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK IN PLACE AS SHOWN.

BEDDING MATERIAL AND FILTER FABRIC AS SPECIFIED IN SECTION 281 OF THE STANDARD SPECIFICATIONS WILL NOT BE REQUIRED.

THE WIDTH OF THE RIPRAP DITCH WILL BE AS SPECIFIED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

STD. 9-12

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -
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Default	PLOT SCALE = 94.4444' / 1" =	CHECKED -	REVISED -
	PLOT DATE = 12/14/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

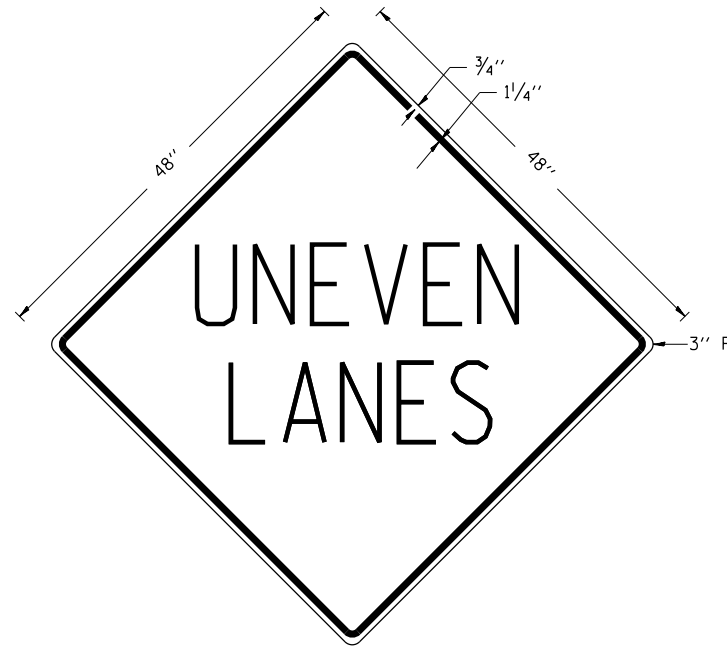
**DETAILS: TEMP HMA TRANSITIONS, TEMP DITCH CHECKS
STONE RIPRAP DITCH LINING, SEED & MULCHING**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	46
			CONTRACT NO. 78509	
ILLINOIS FED. AID PROJECT				

UNEVEN LANES SIGN

W8-11 (48" x 48")



COLORS:

LEGEND AND BORDER - BLACK NON-REFLECTORIZED
BACKGROUND - ORANGE REFLECTORIZED

NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "UNEVEN PAVEMENT" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

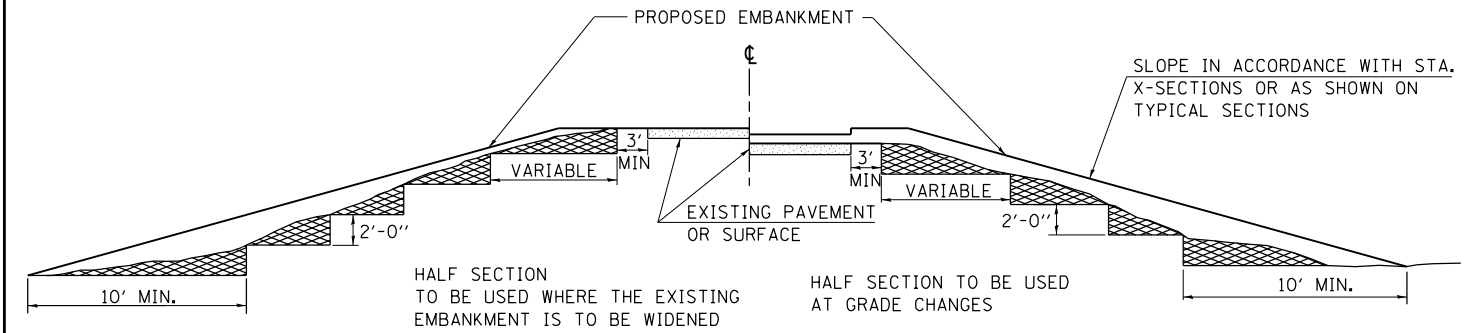
IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS	
DRAWN	2-15-89
REVISED	4-06-93
REDESIGNED	7-23-04
RESIZED	5-08-08

STD. 9-41

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



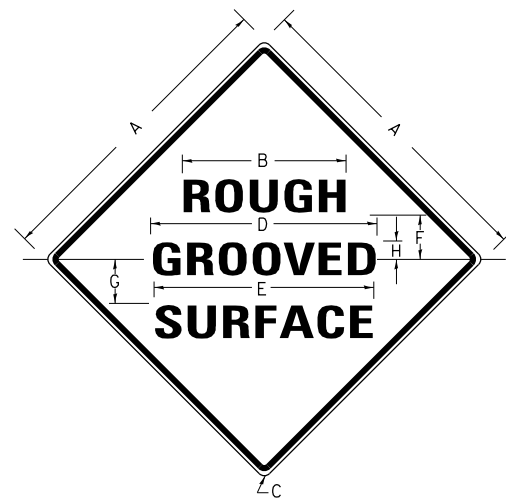
MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08

STD. 9-16

ILLINOIS STANDARD

W8-1106



COLORS:

LEGEND AND BORDER- BLACK NON-REFLECTORIZED
BACKGROUND- ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MAR-GIN	BOR-DER	BLANK STD.
	1	2	3			
48X48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES

NOTES:

PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED, THE CONTRACTOR SHALL HAVE ERECTED "ROUGH GROOVED SURFACE" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "ROUGH GROOVED SURFACE" SIGNS UNTIL THE COLDMILLED SURFACE IS COVERED WITH LEVELING BINDER OR SURFACE COURSE.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS	
REDRAWN	2-15-89
REVISED	4-6-93
REVISED	3-27-08
REVISED	

STD. 9-39

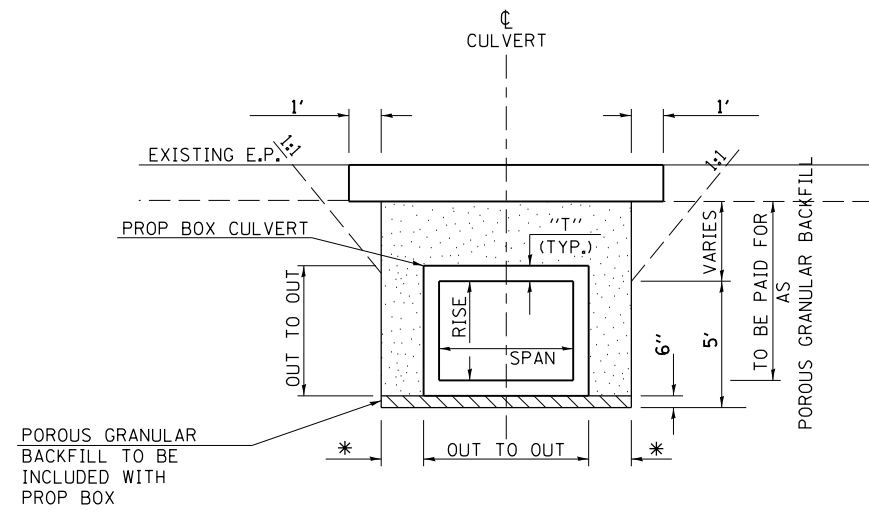
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p:\IL084EBIDINTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 9\Projects\78509\Drawings\CAD\Sheets\78509-shu-details.dwg		DRAWN -	REVISED -
Default	PLOT SCALE = 94.4444 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

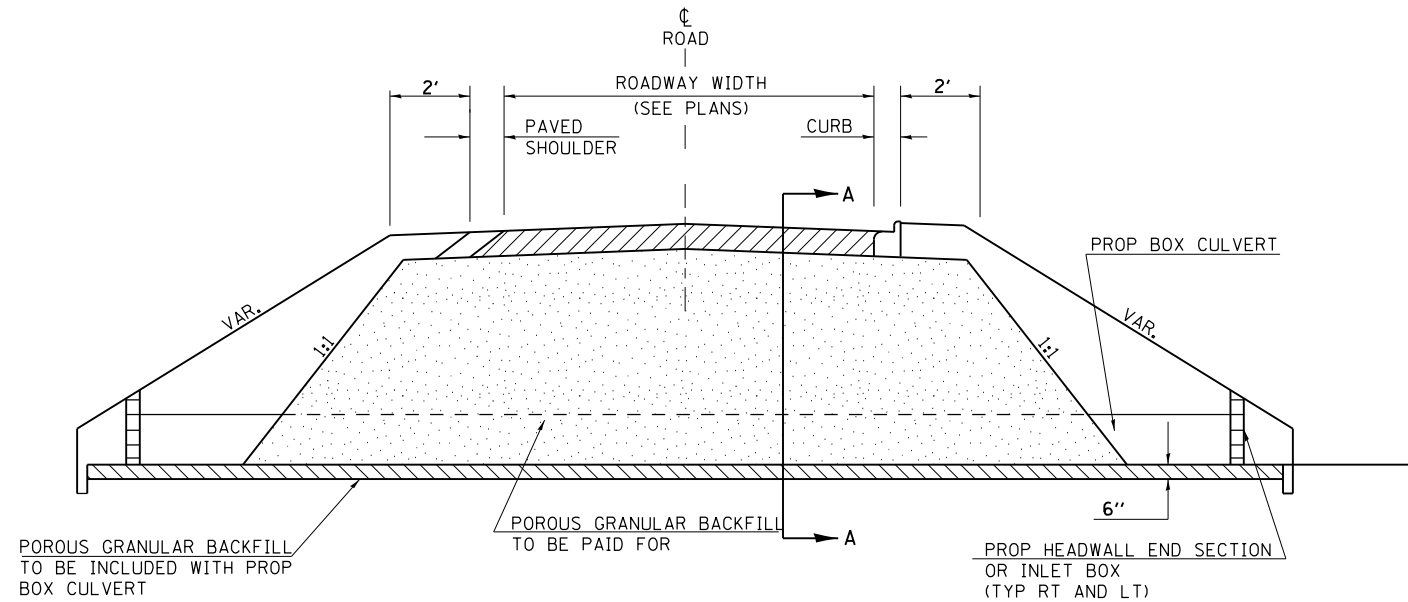
DETAILS: UNEVEN LANES SIGN W8-11, STEP CONSTRUCTION,
ILLINOIS STANDARD SIGN W8-1106

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	47
			CONTRACT NO. 78509	
ILLINOIS FED. AID PROJECT				

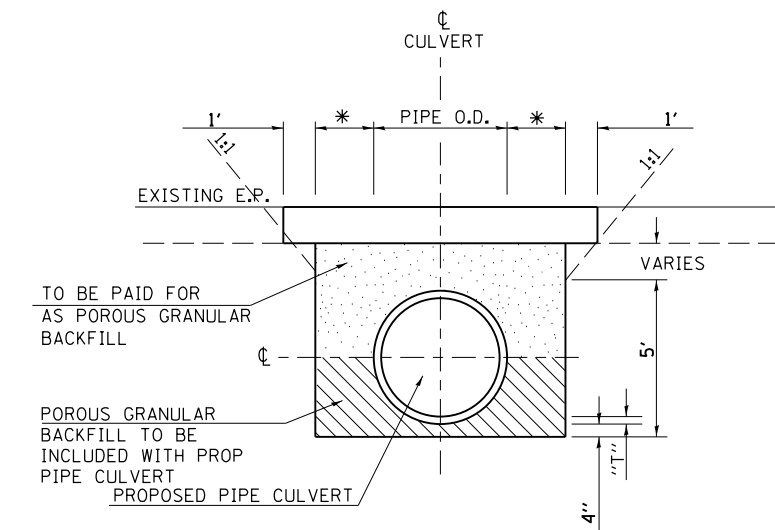


**SECTION A-A: PROPOSED BOX
TRENCH DEPTH GREATER THAN 5'
SHORING REQUIRED**

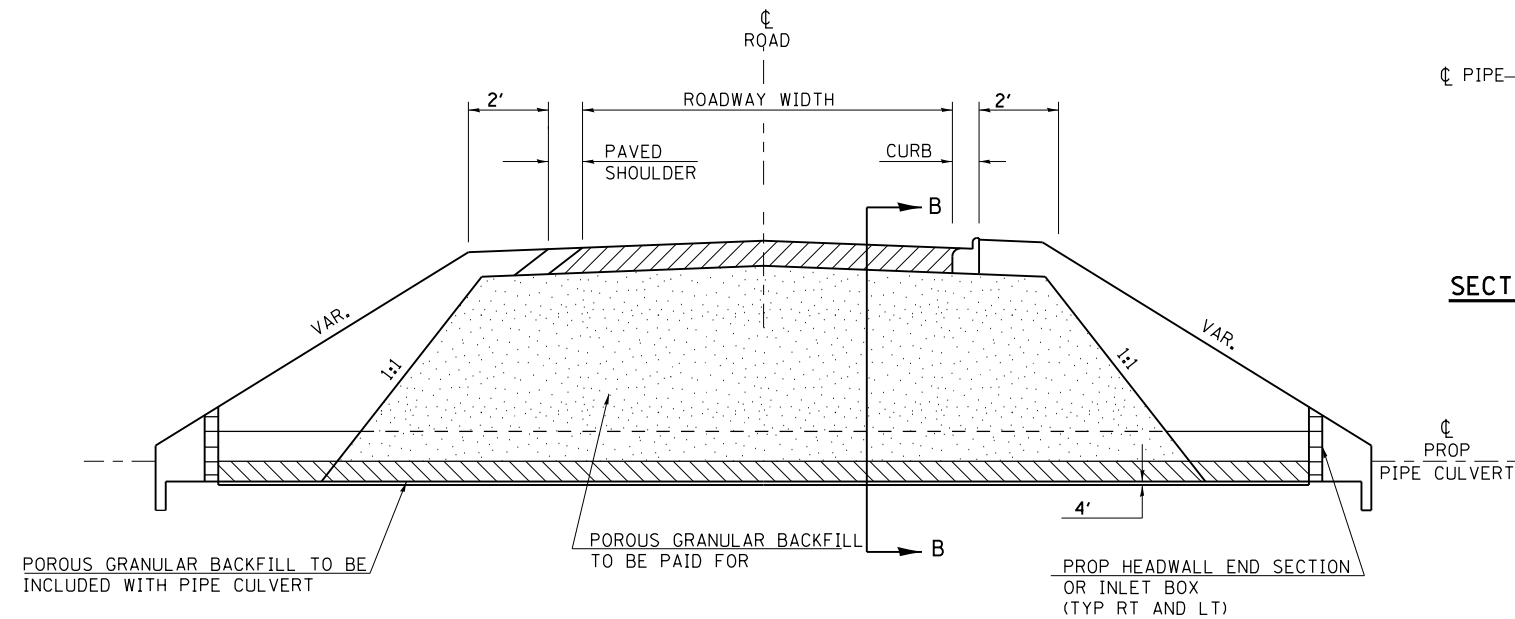


PROFILE SECTION THRU BOX CULVERT ACROSS ROADWAY

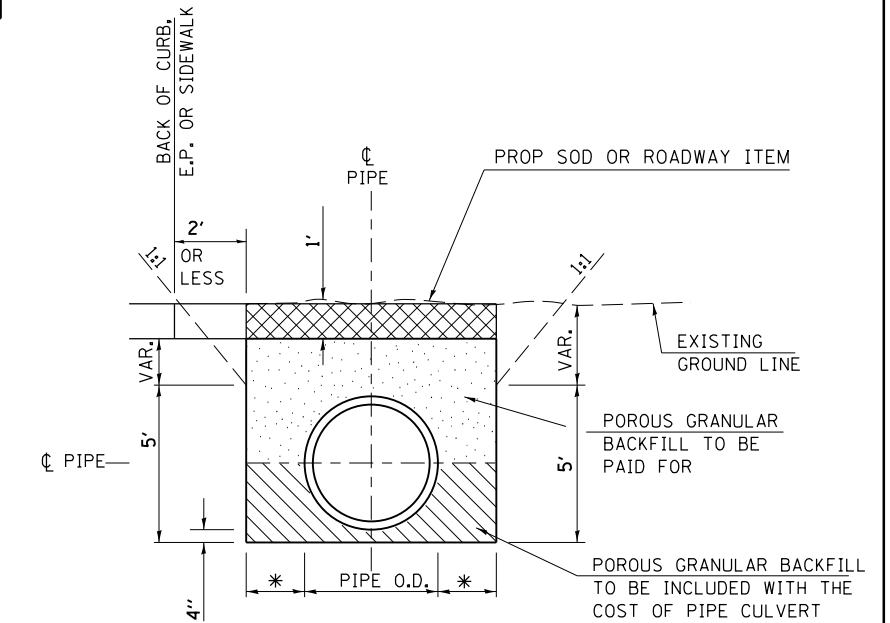
"T" = WALL THICKNESS OF CULVERT



**SECTION B-B: PROPOSED PIPE CULVERT
TRENCH DEPTH GREATER THAN 5'
SHORING REQUIRED**



PROFILE SECTION THRU PIPE CULVERT ACROSS ROADWAY



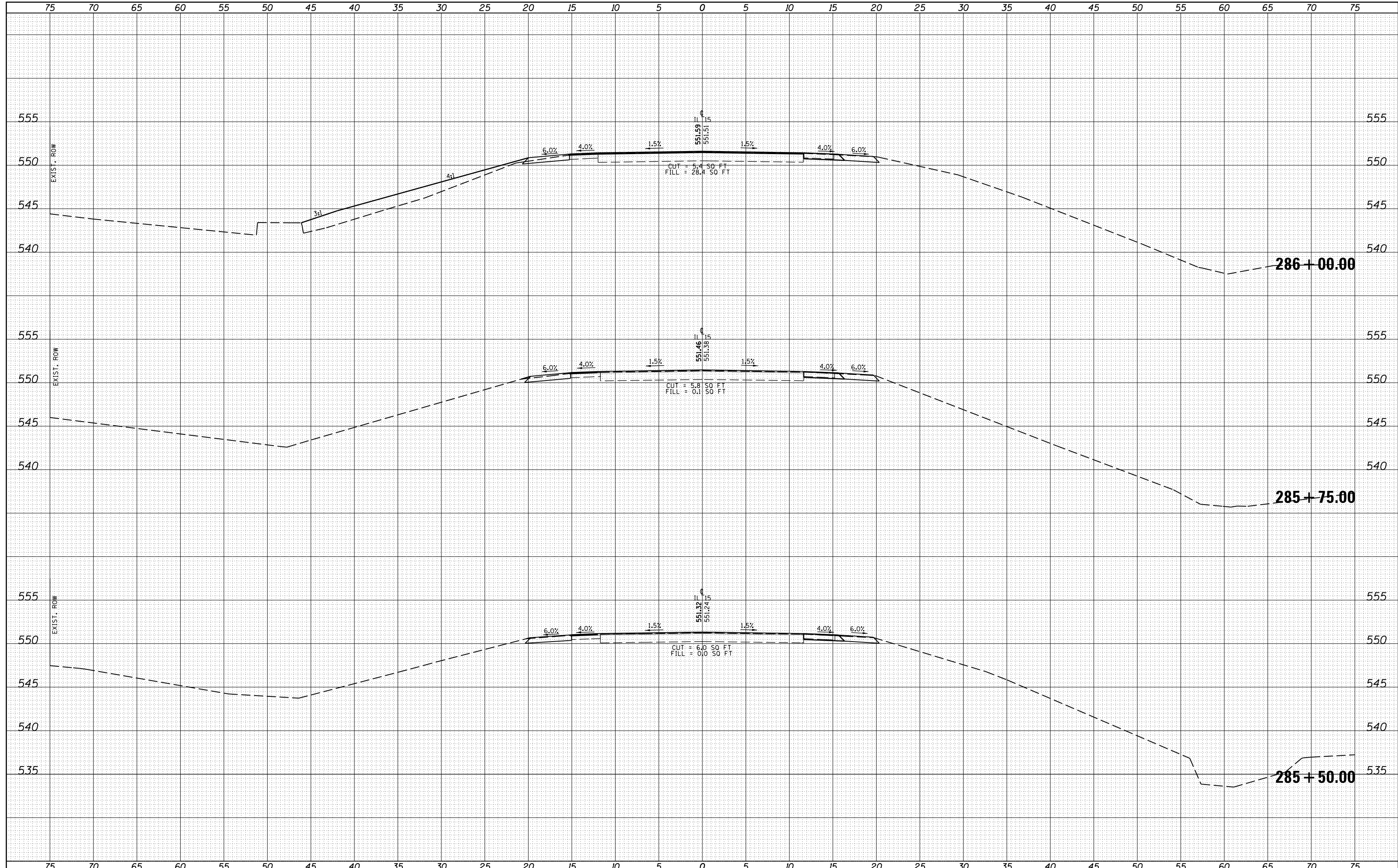
SECTION OF TRENCHES NEAR EDGE OF PAVEMENT

* 9" + PIPE OD + 9" WHEN TRENCH DEPTH < 5'.
18" + PIPE OD + 18" WHEN TRENCH DEPTH > 5'.

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL: POROUS GRANULAR BACKFILL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default		CHECKED -	REVISED -					CONTRACT NO. 78509				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			

BY	DATE
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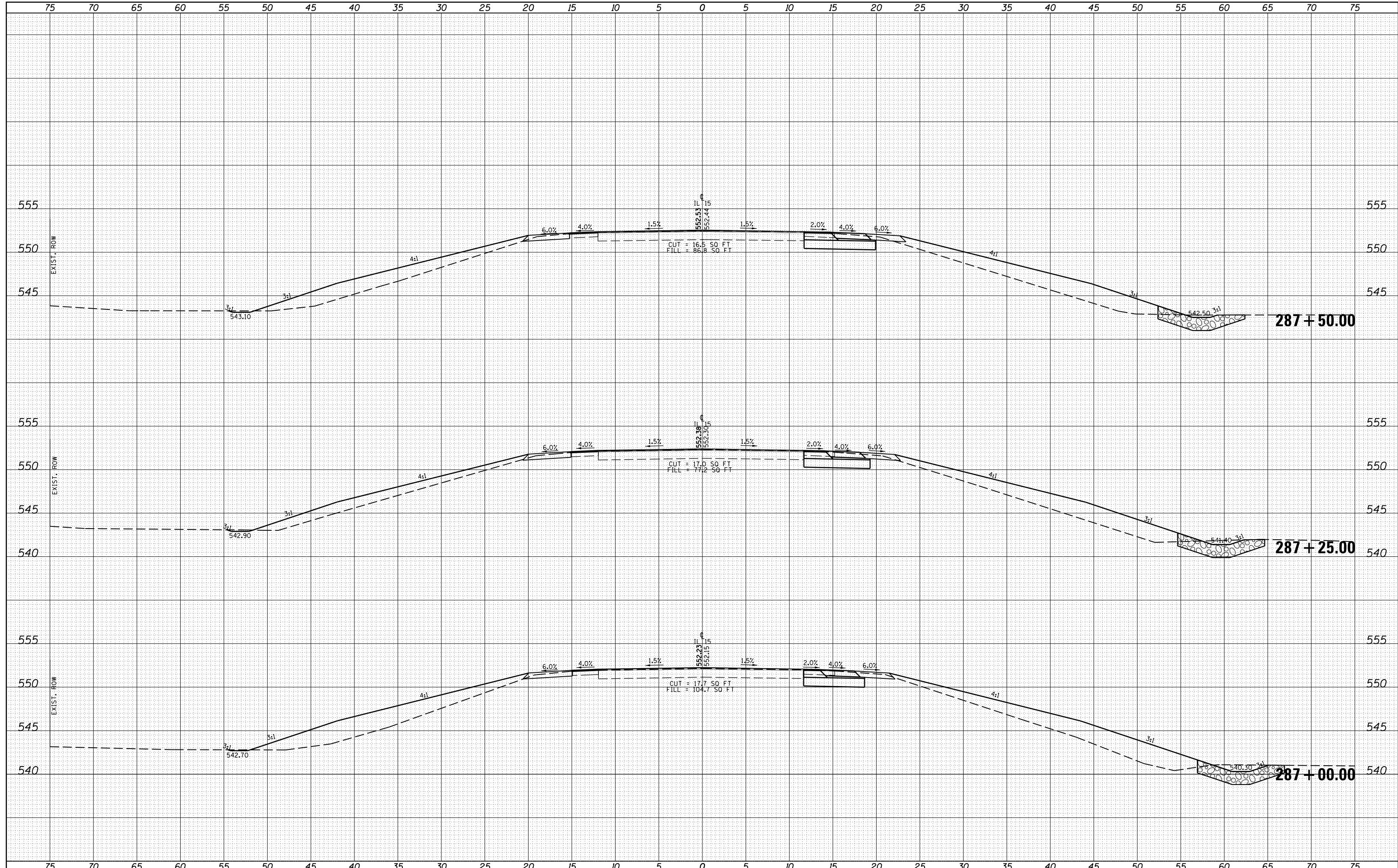
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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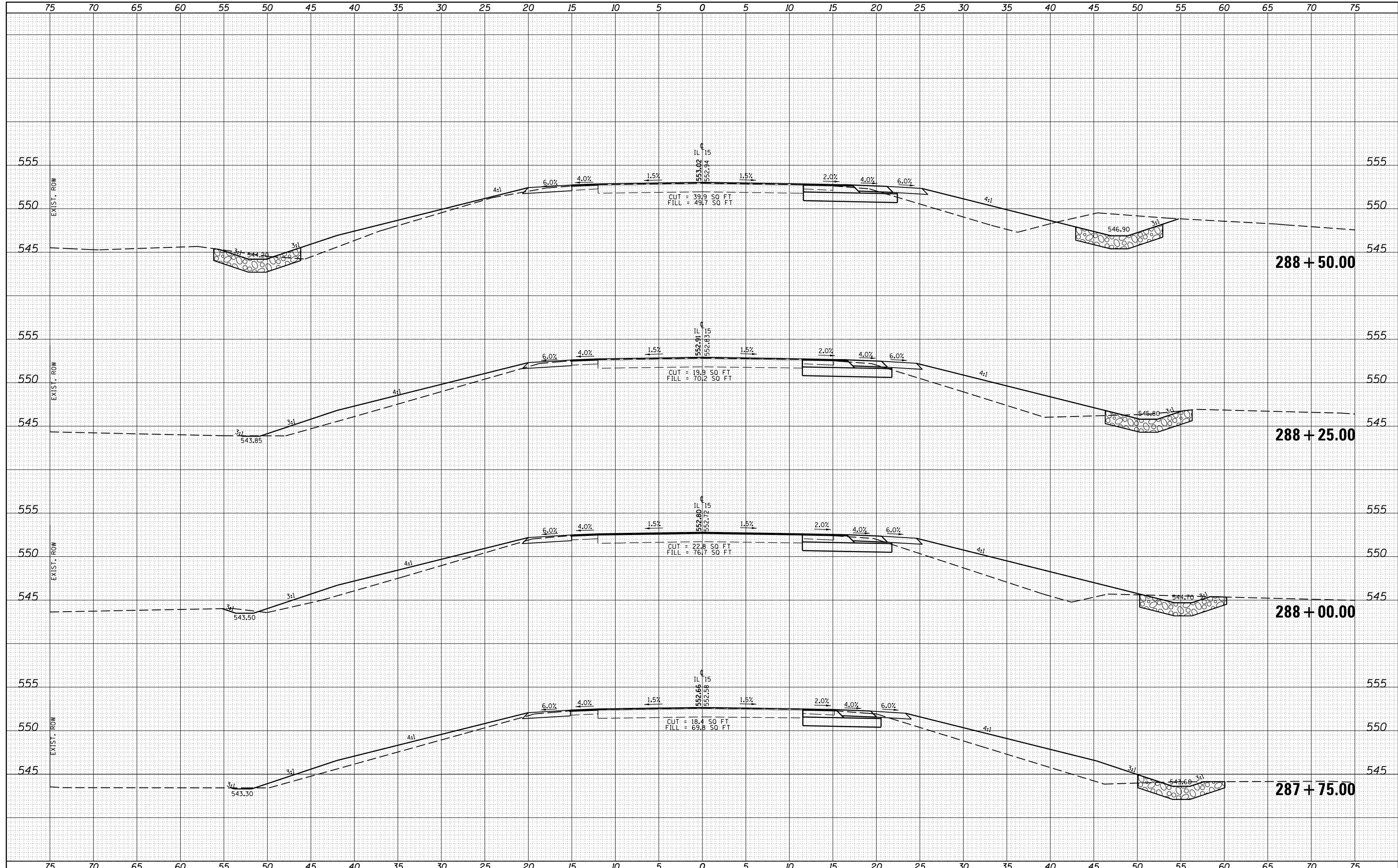
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 PLOTTED _____
 NOTE BOOK _____
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DATE _____
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 SURVEYED _____
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 NOTE BOOK _____
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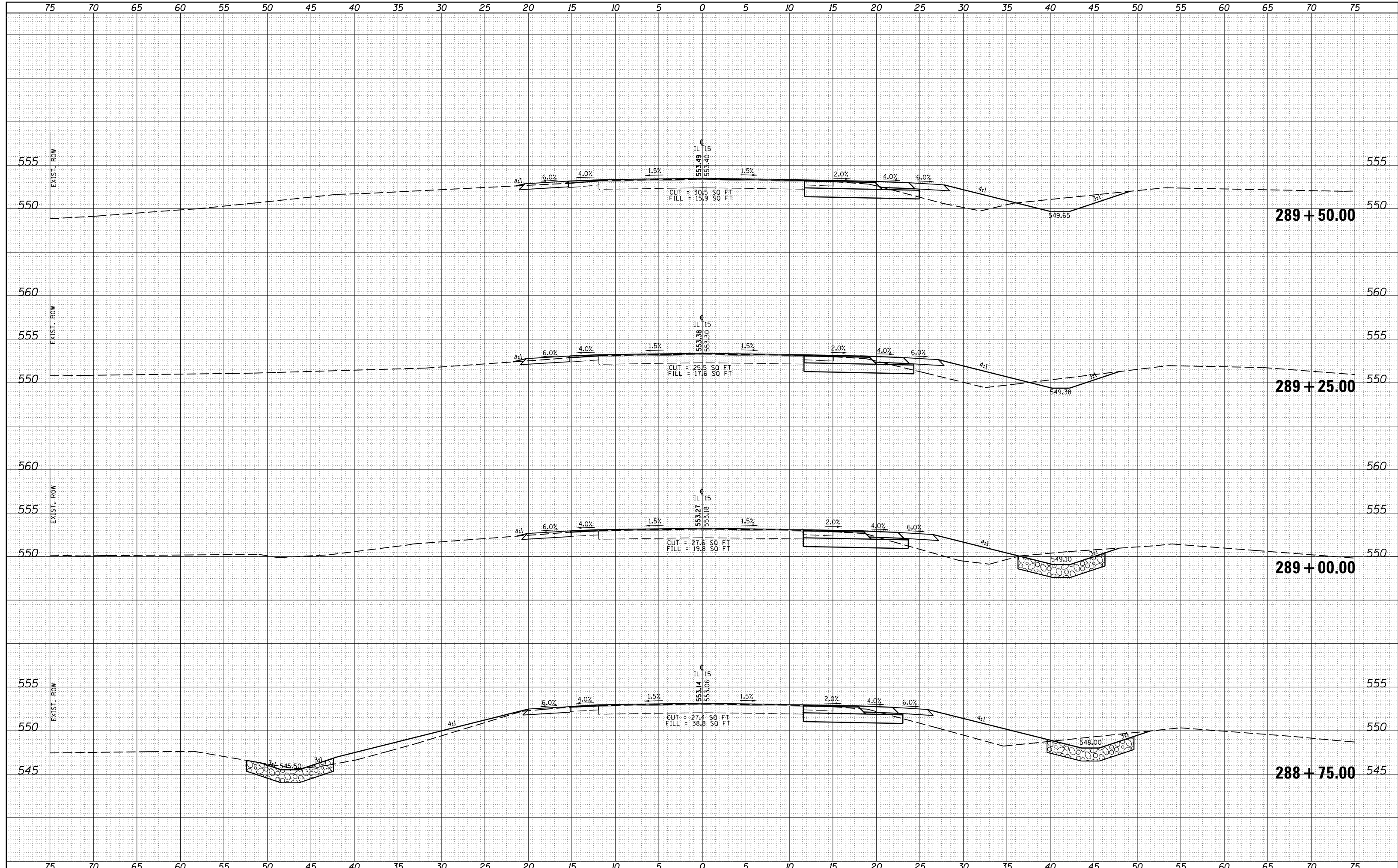
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 BY _____
 SURVEYED _____
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 NOTE BOOK _____
 AS _____
 AREAS CHECKED _____

DATE _____
 BY _____
 SURVEYED _____
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 NOTE BOOK _____
 AS _____
 AREAS CHECKED _____



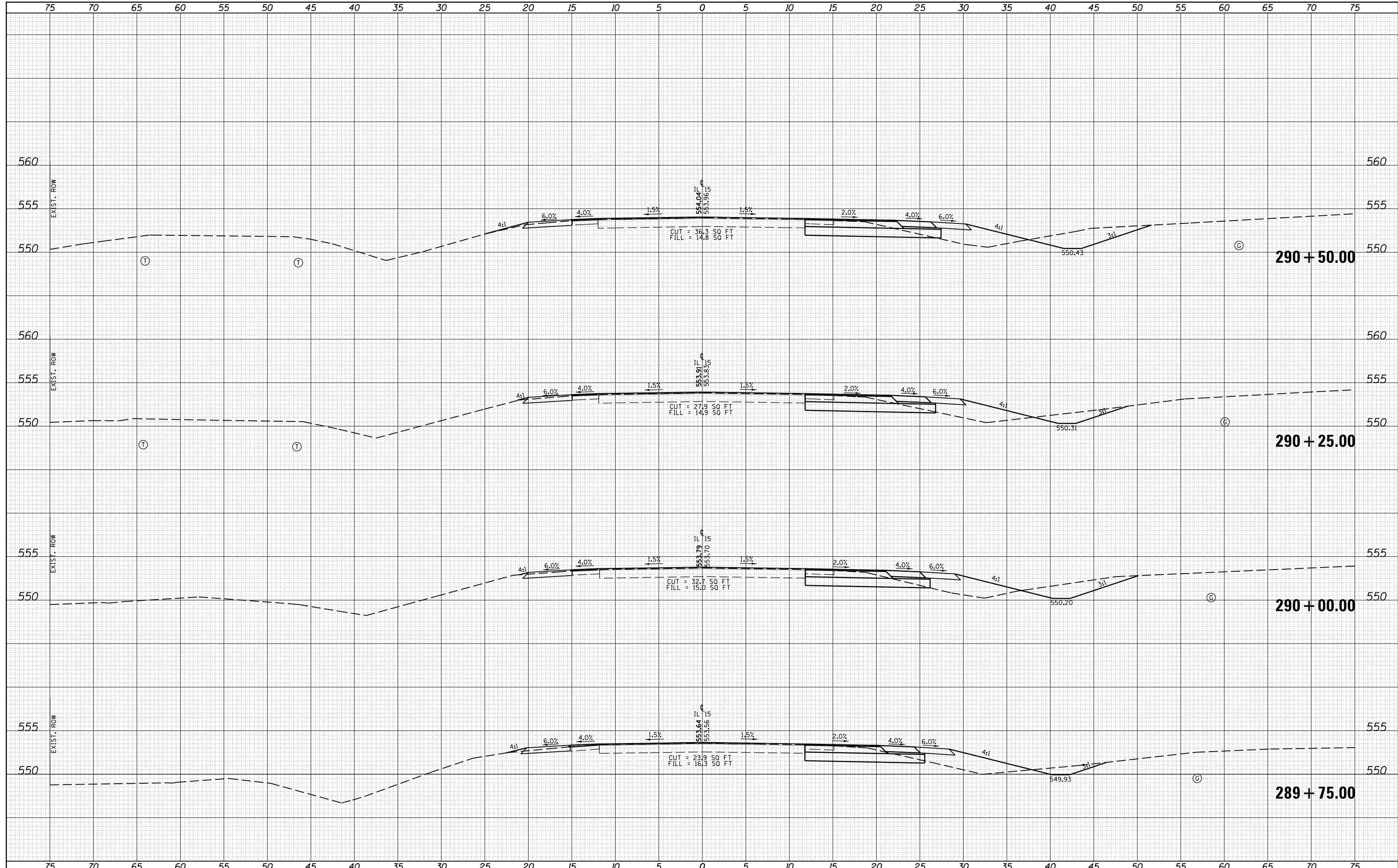
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BY	
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BY	
ORIGINAL SURVEY	
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NOTE BOOK	
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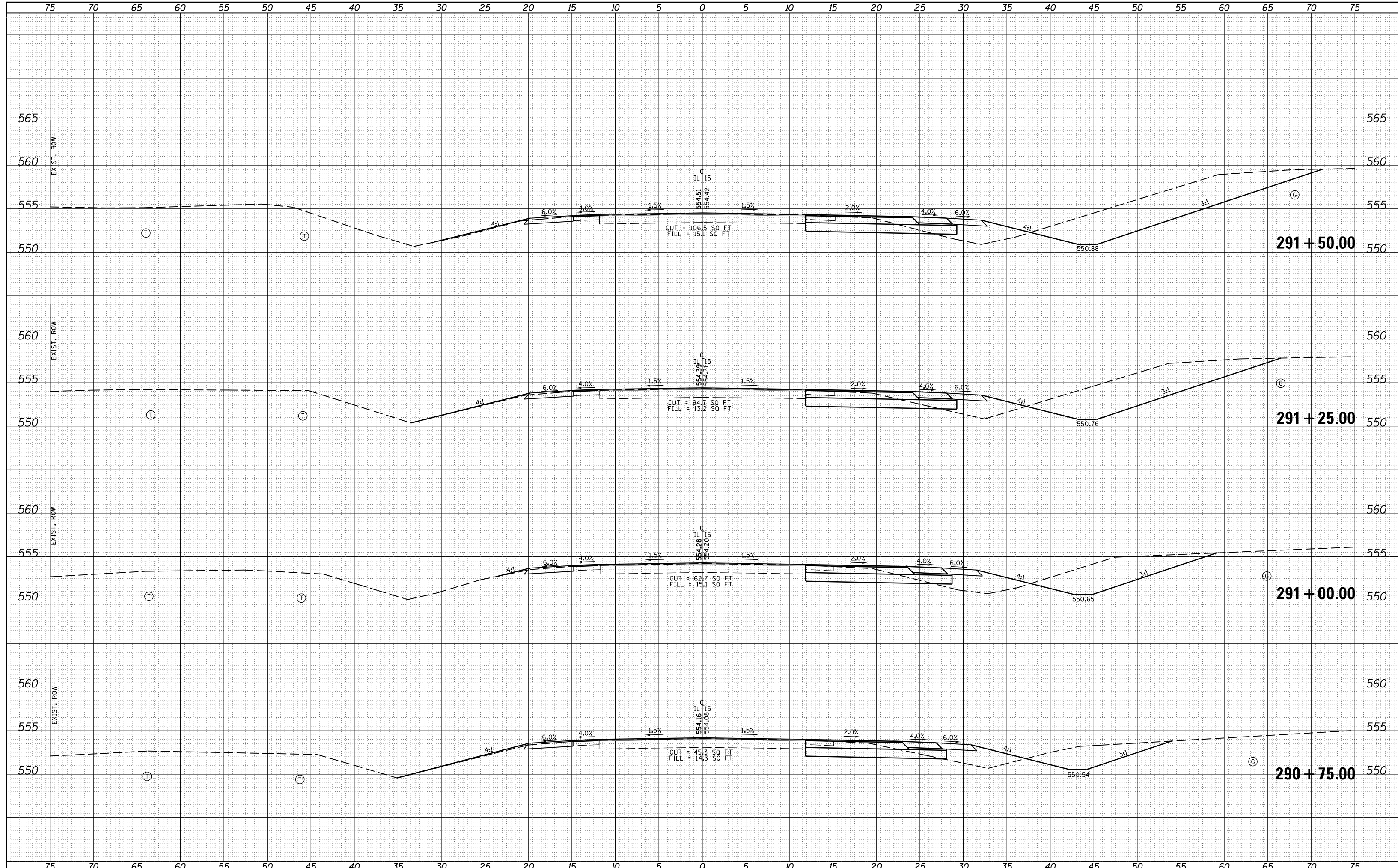
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 SURVEYED _____
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 NOTE BOOK _____
 AREAS AS _____
 AREAS CHECKED _____

BY _____ DATE _____
 SURVEYED _____
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 NOTE BOOK _____
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 AREAS CHECKED _____



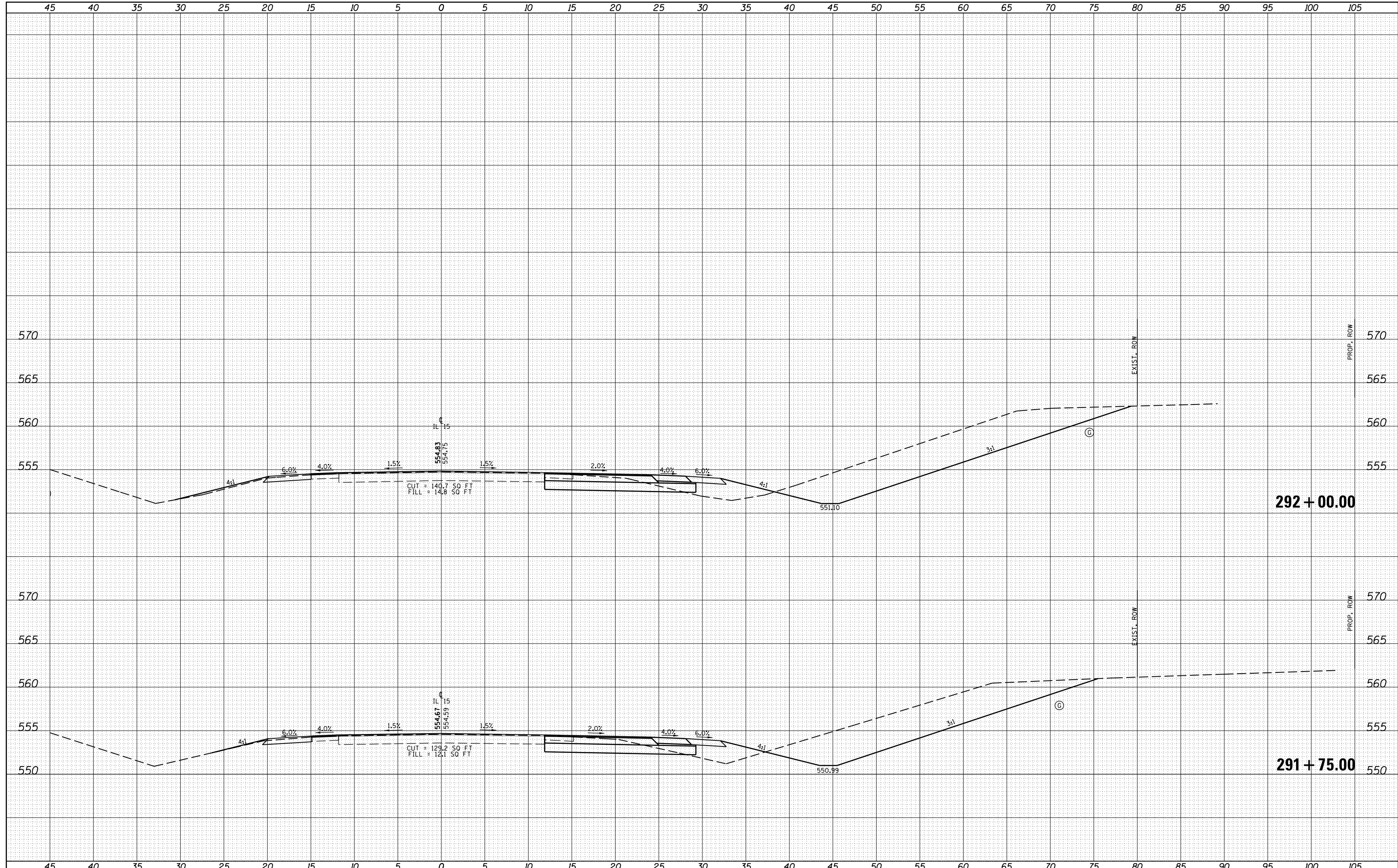
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TEMPLATE	
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AREAS	
CHECKED	
NO.	



DATE	
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SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



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 USER NAME = kranzjc
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 PLOT SCALE = 9.4444' / in.
 PLOT DATE = 12/14/2016

DESIGNED -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

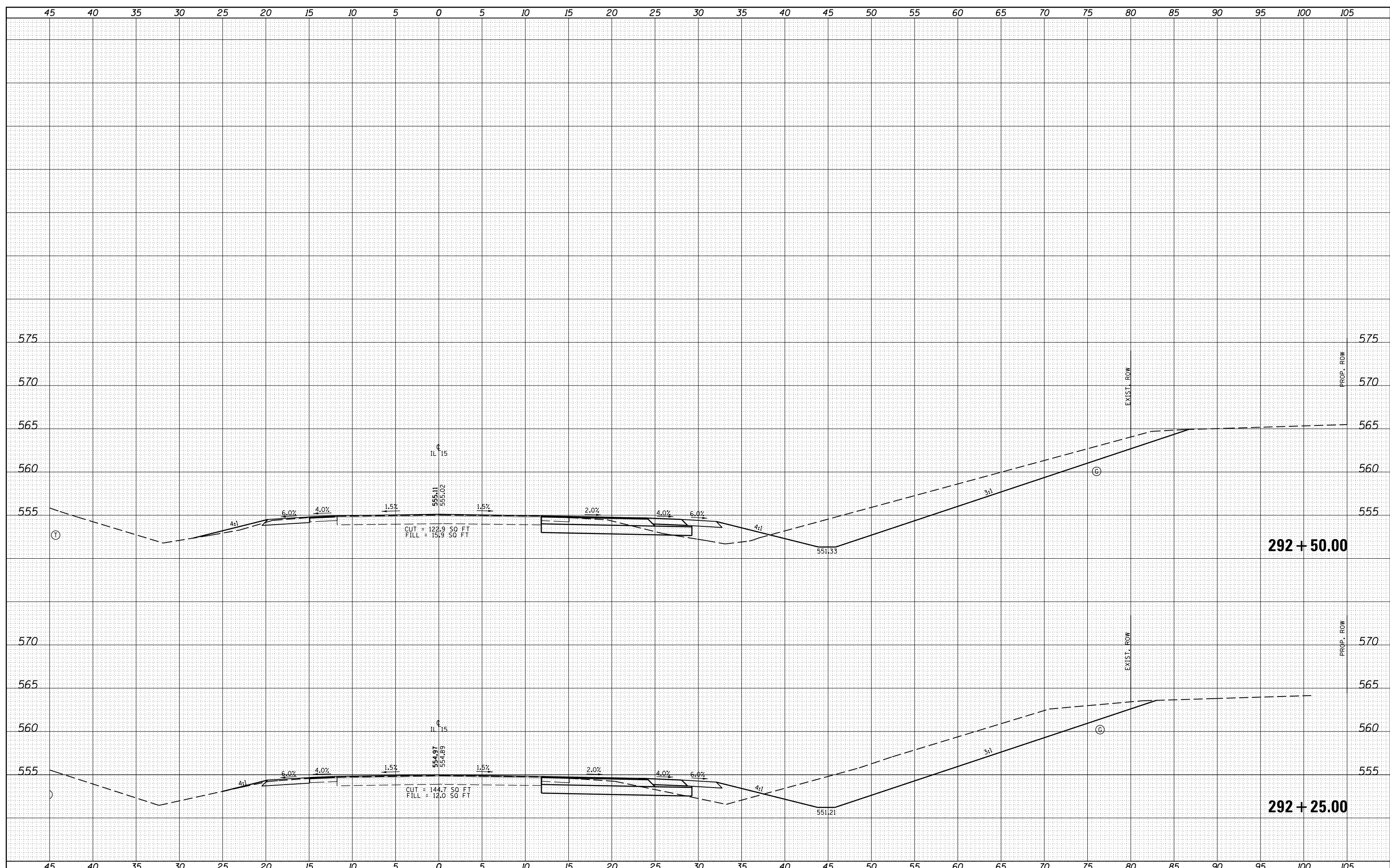
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - IL 15
 SCALE: SHEET OF SHEETS STA. 291+75.00 TO STA. 292+00.00

F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 56
CONTRACT NO. 78509			ILLINOIS FED. AID PROJECT	

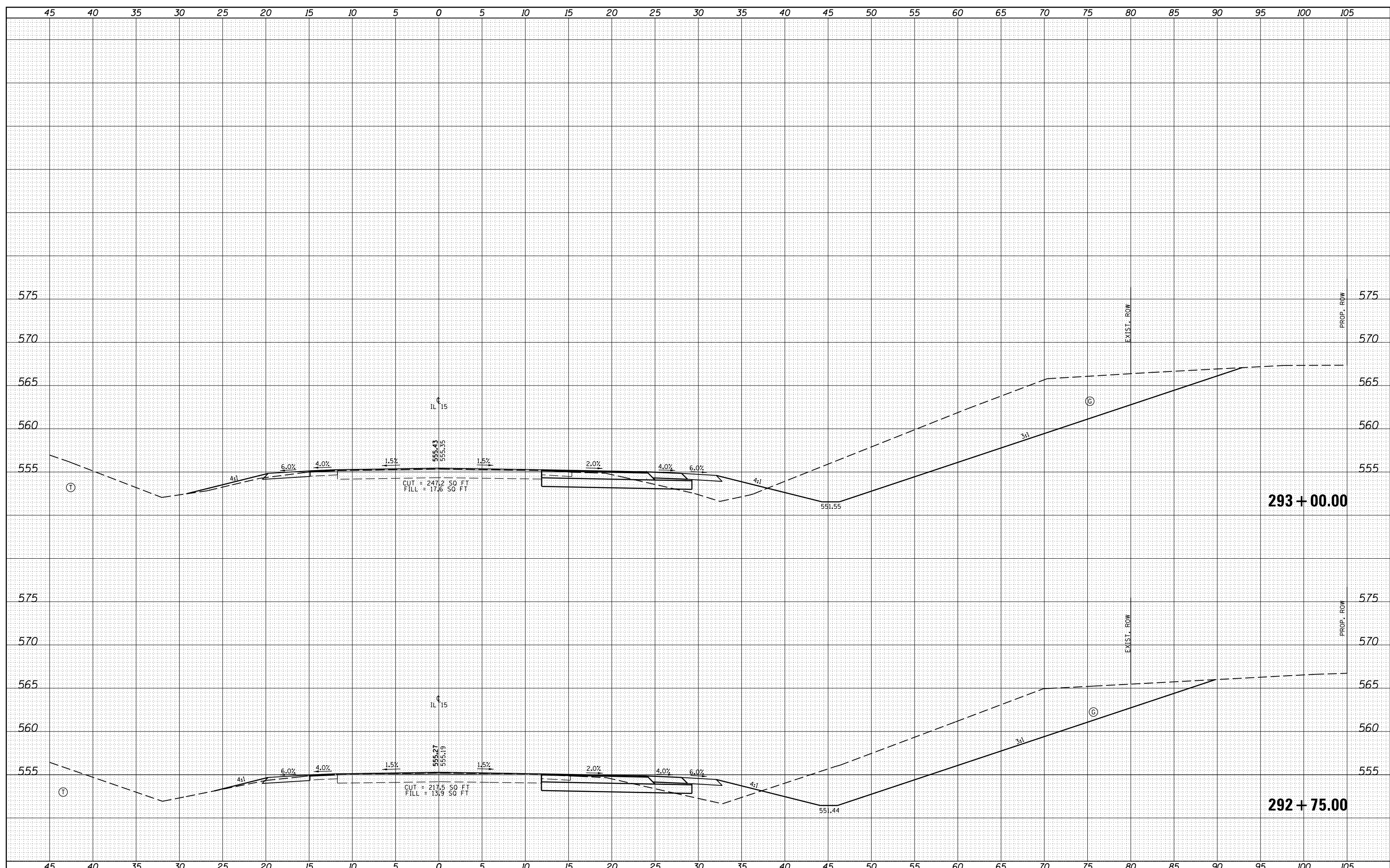
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NOTE BOOK	
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DATE	
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TEMPLATE	
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DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

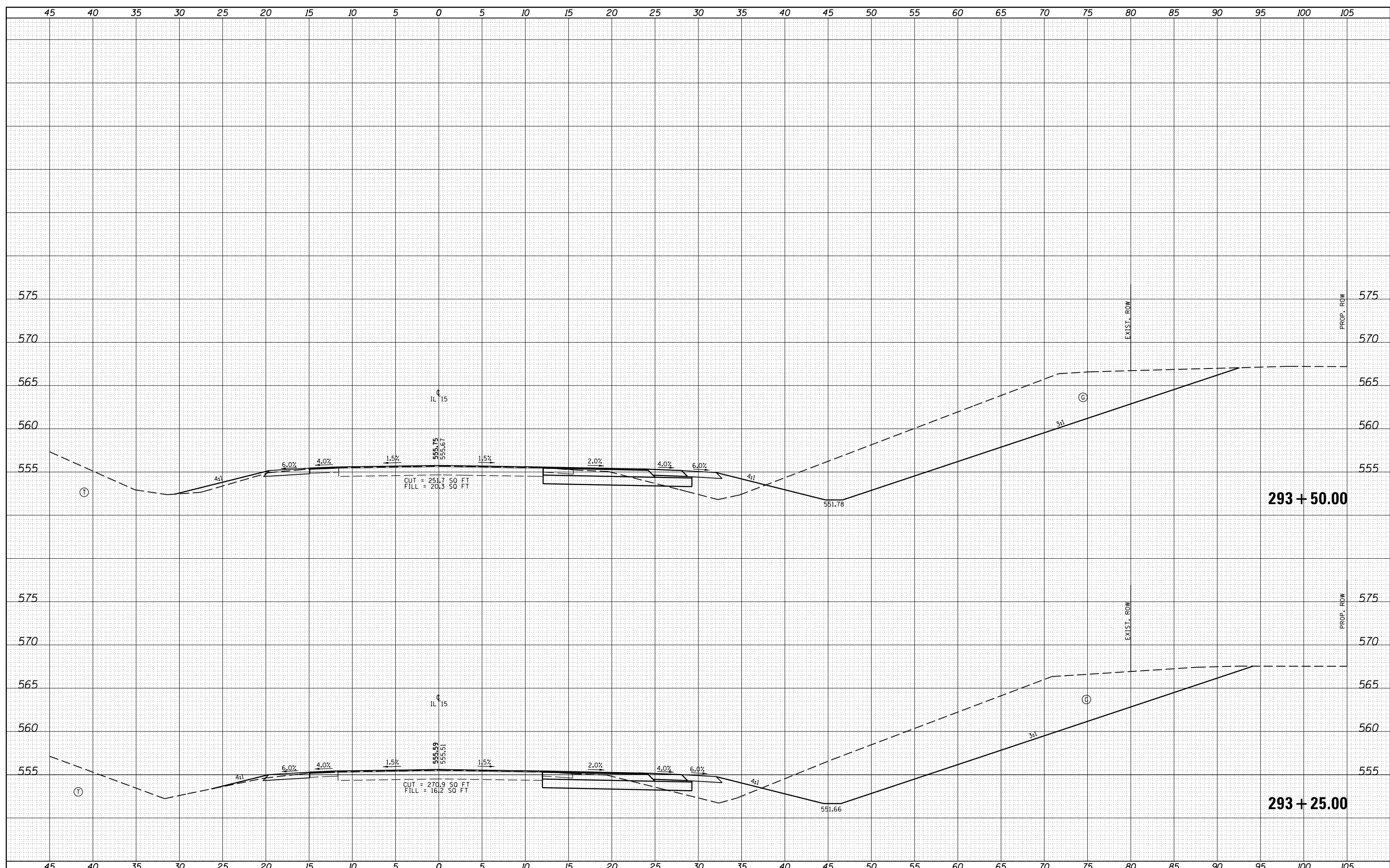
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED



FILE NAME =	USER NAME = kranz_jc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 12/14/2016					ILLINOIS FED. AID PROJECT					
SCALE:						SHEET OF SHEETS STA. 292+75.00 TO STA. 293+00.00					

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

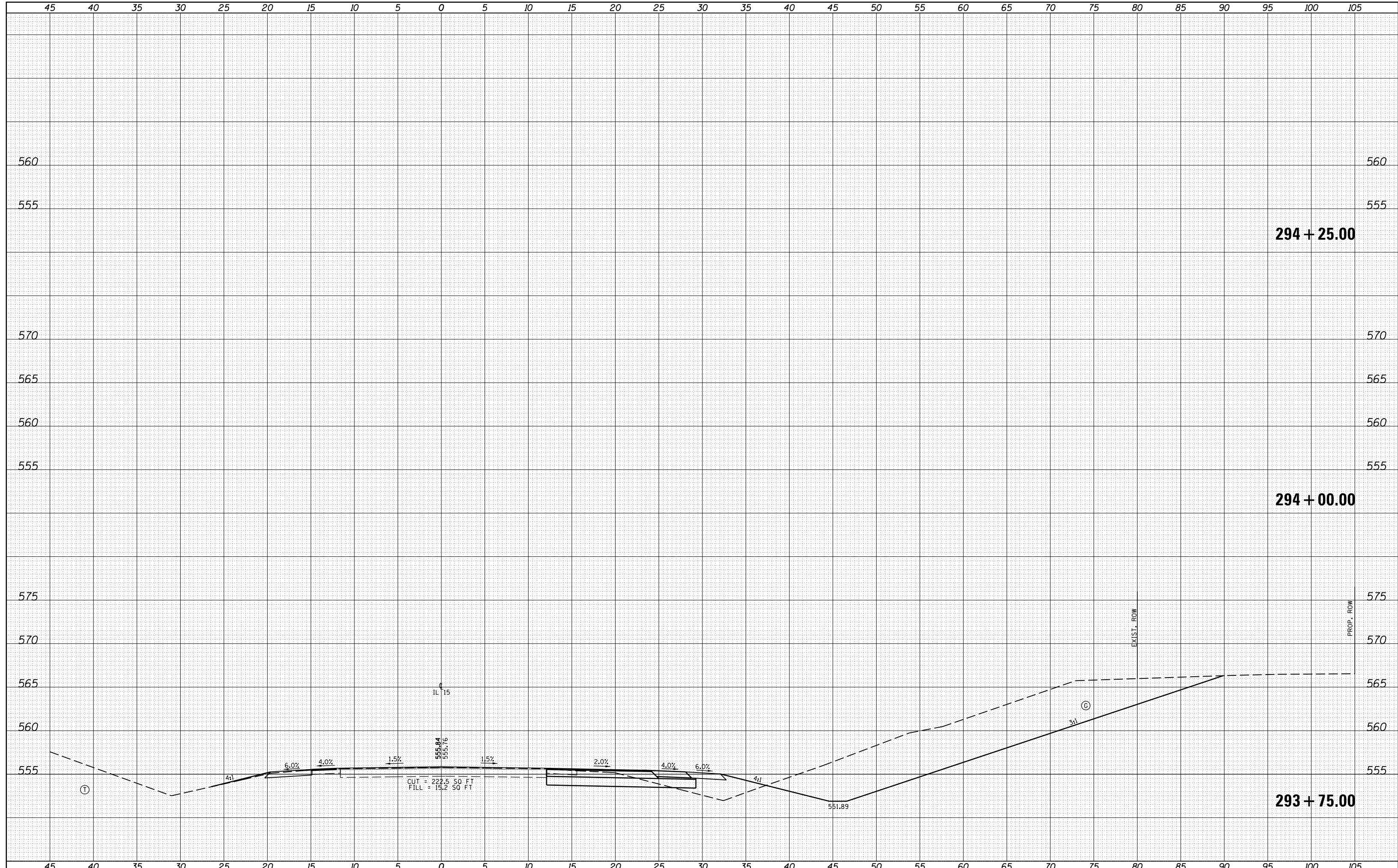
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = kranz_jc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	DOT Offices\District 9\Projects\78509\CADD\Drawings\78509-shj-xsections.dgn	REVISOR -	REVISOR -			821	16-2(N-1)	JEFFERSON	110	59	
	PLOT SCALE = 9.4444" / 1"	CHECKED -	REVISOR -			CONTRACT NO. 78509					
	PLOT DATE = 12/14/2016	DATE -	REVISOR -			ILLINOIS FED. AID PROJECT					
SCALE:						SHEET OF SHEETS STA. 293+25.00 TO STA. 293+50.00					

DATE	
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SURVEYED	
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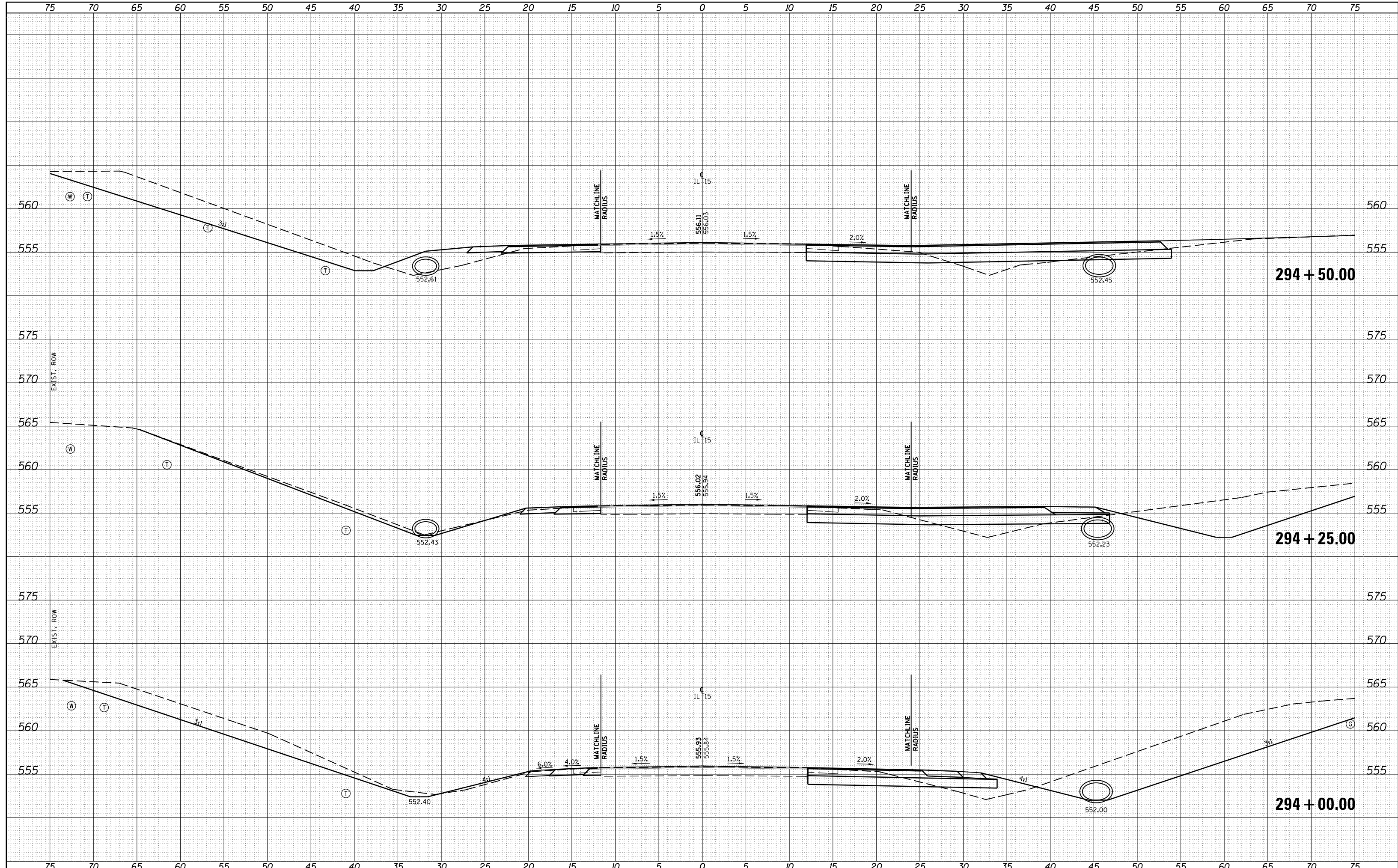
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NO.	



FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 15			F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 60
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	PLOT SCALE = 9.4444 ' / in.	DATE -	REVISED -									
	PLOT DATE = 12/14/2016		REVISED -									

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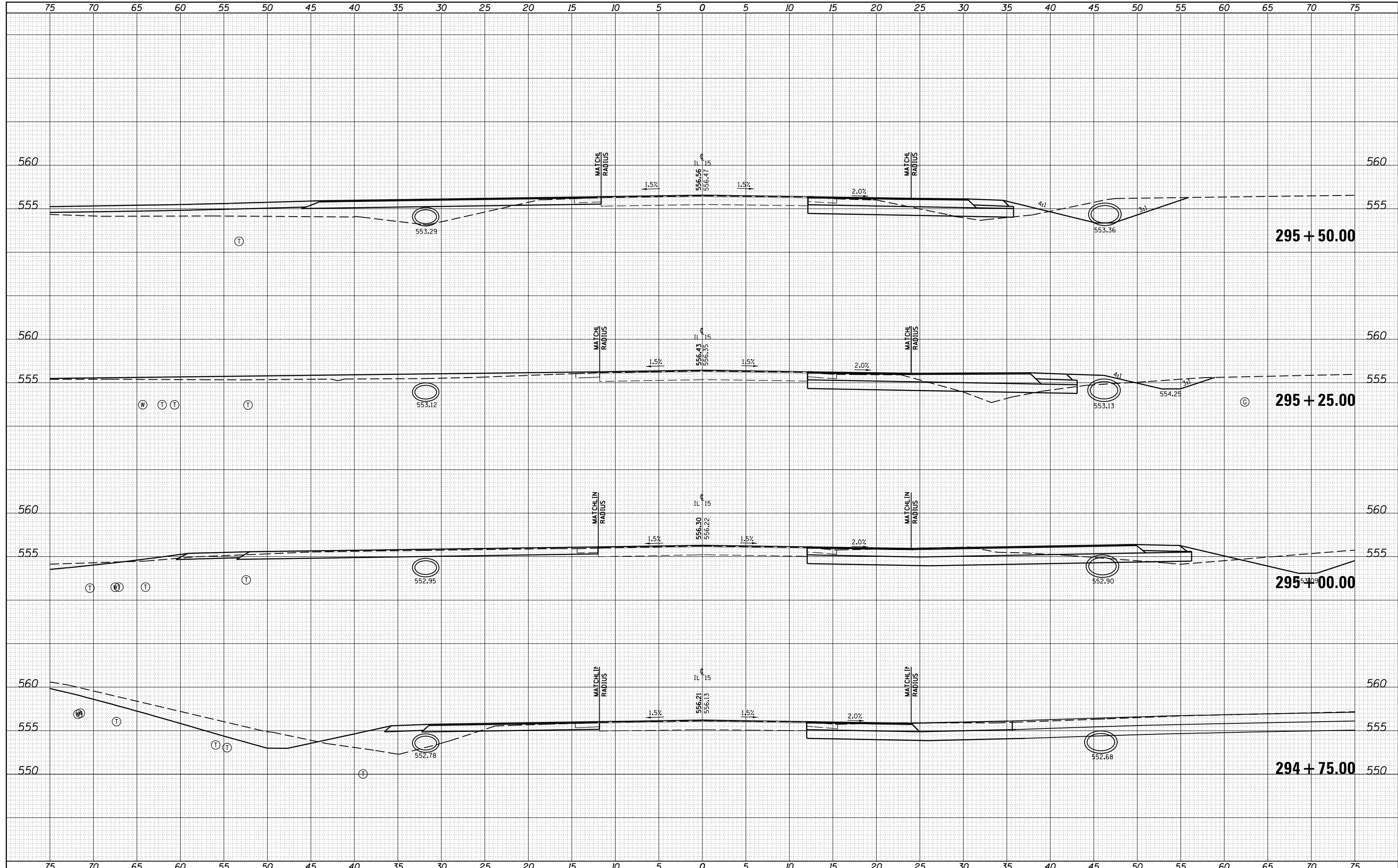
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBID\INTEG.\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 9\Projects\78509\CADD\DRAWN\sheet\78509-shtj\sections.dgn						821	16-2(N-1)	JEFFERSON	110	61
PLOT SCALE = 9.4444' / 1"	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 78509				
Default	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE: SHEET OF SHEETS STA. 294+00.00 TO STA. 294+50.00										

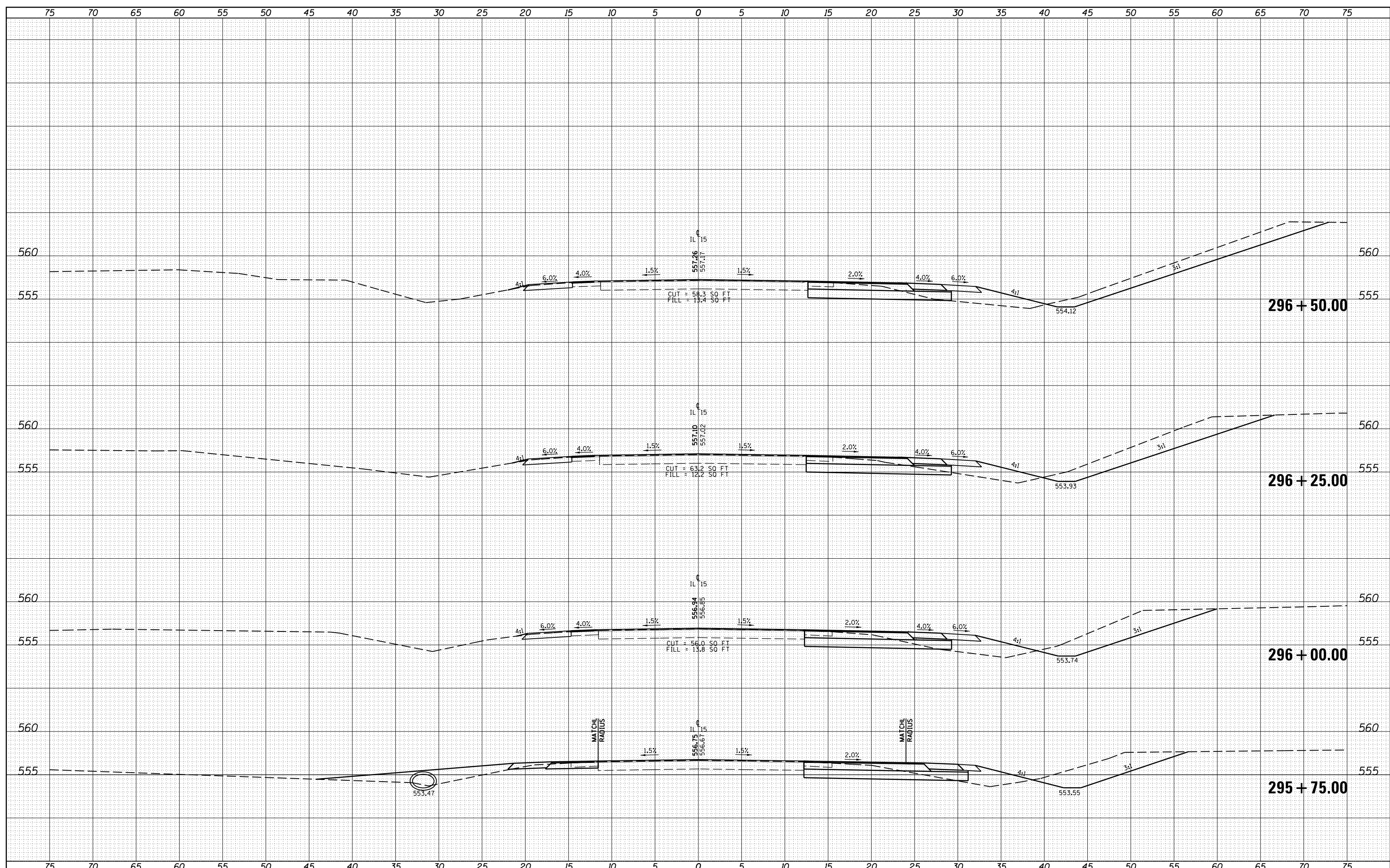
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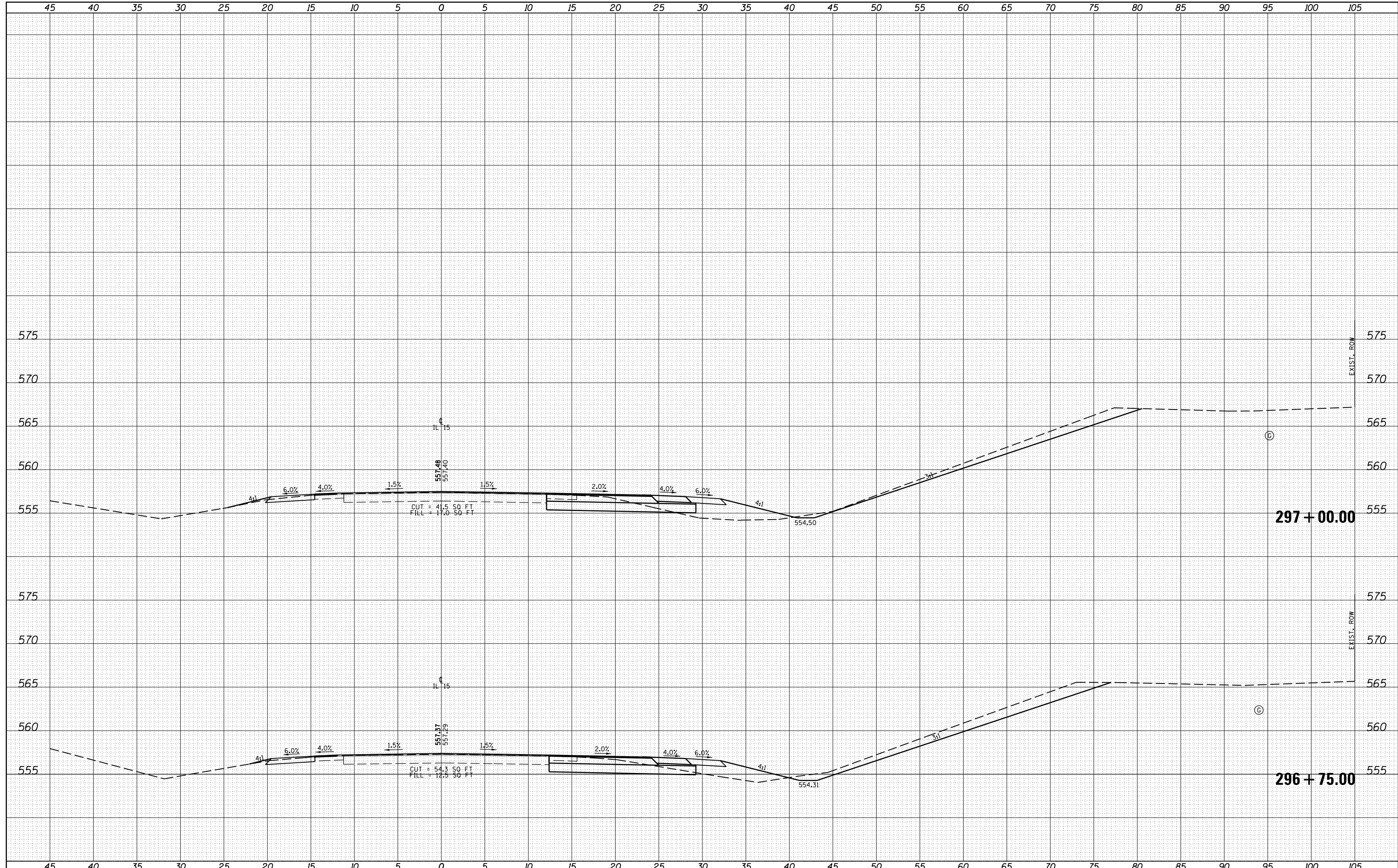
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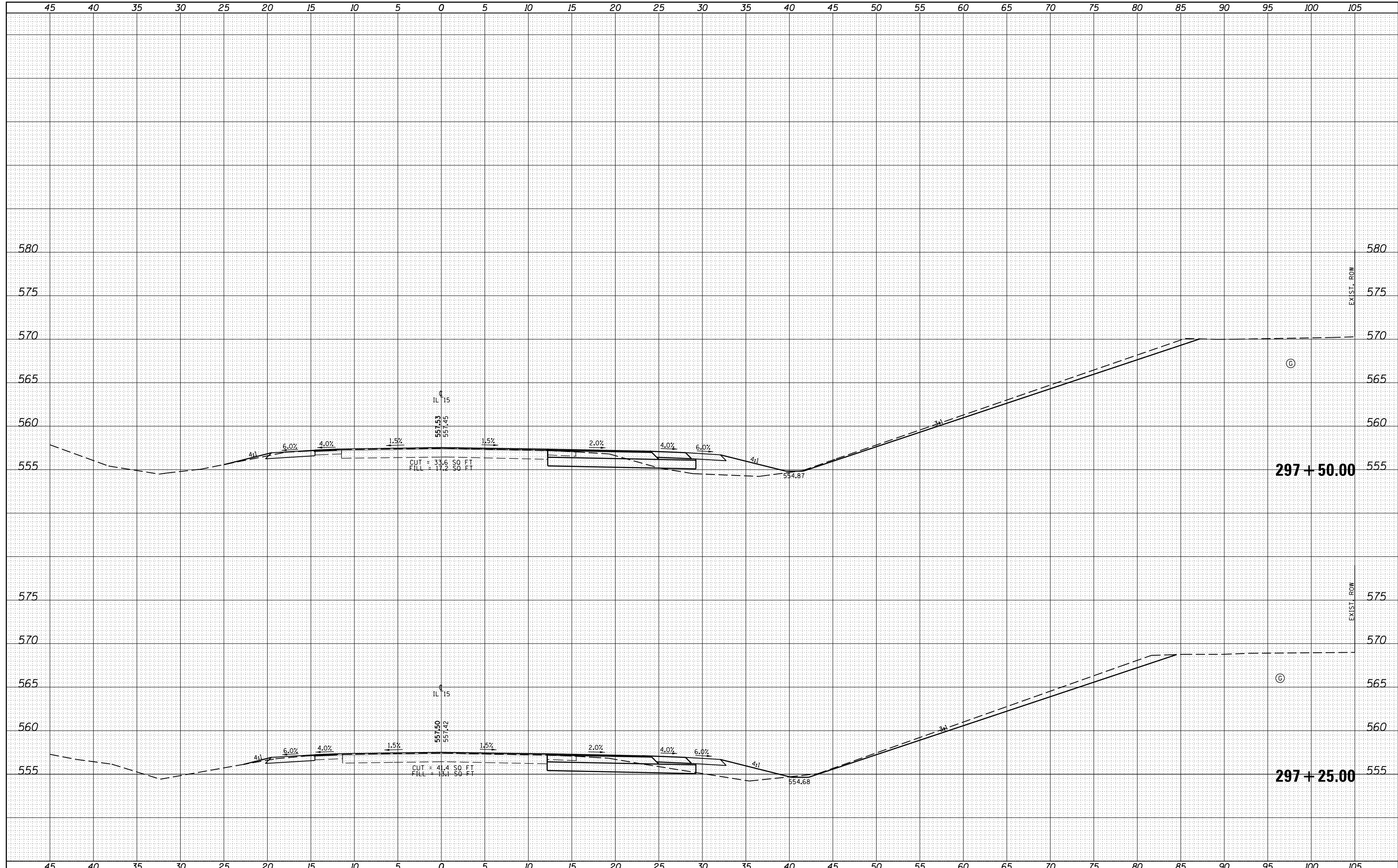
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLLOT DATE = 12/14/2016	DATE -	REVISED -			SCALE: SHEET OF SHEETS STA. 296+75.00 TO STA. 297+00.00		CONTRACT NO. 78509		
						ILLINOIS FED. AID PROJECT				

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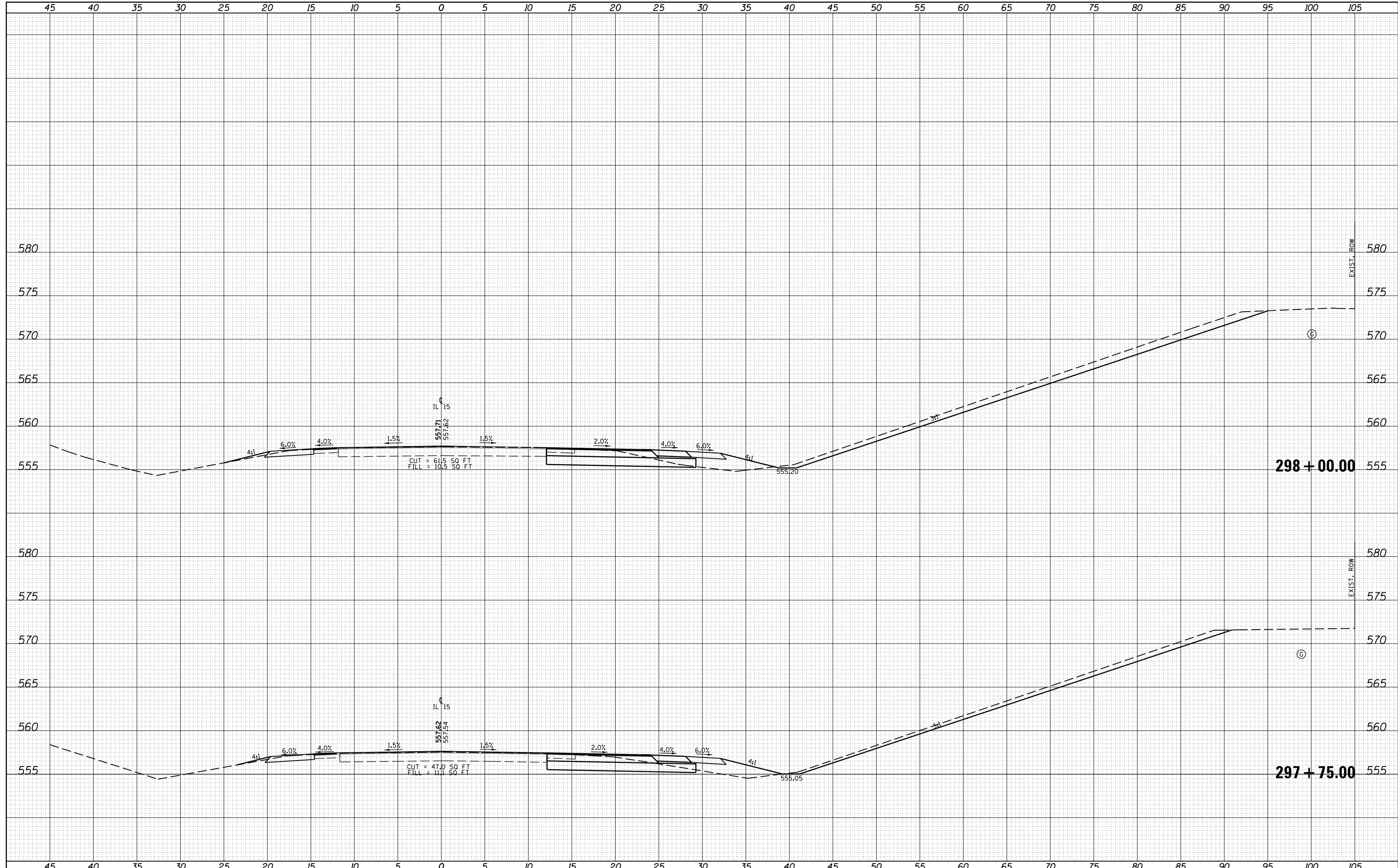
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Default	PLOT SCALE = 9.4444 ' / in.	CHECKED -	REVISED -		CONTRACT NO. 78509			ILLINOIS FED. AID PROJECT			
	PLOT DATE = 12/14/2016	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 297+25.00 TO STA. 297+50.00		

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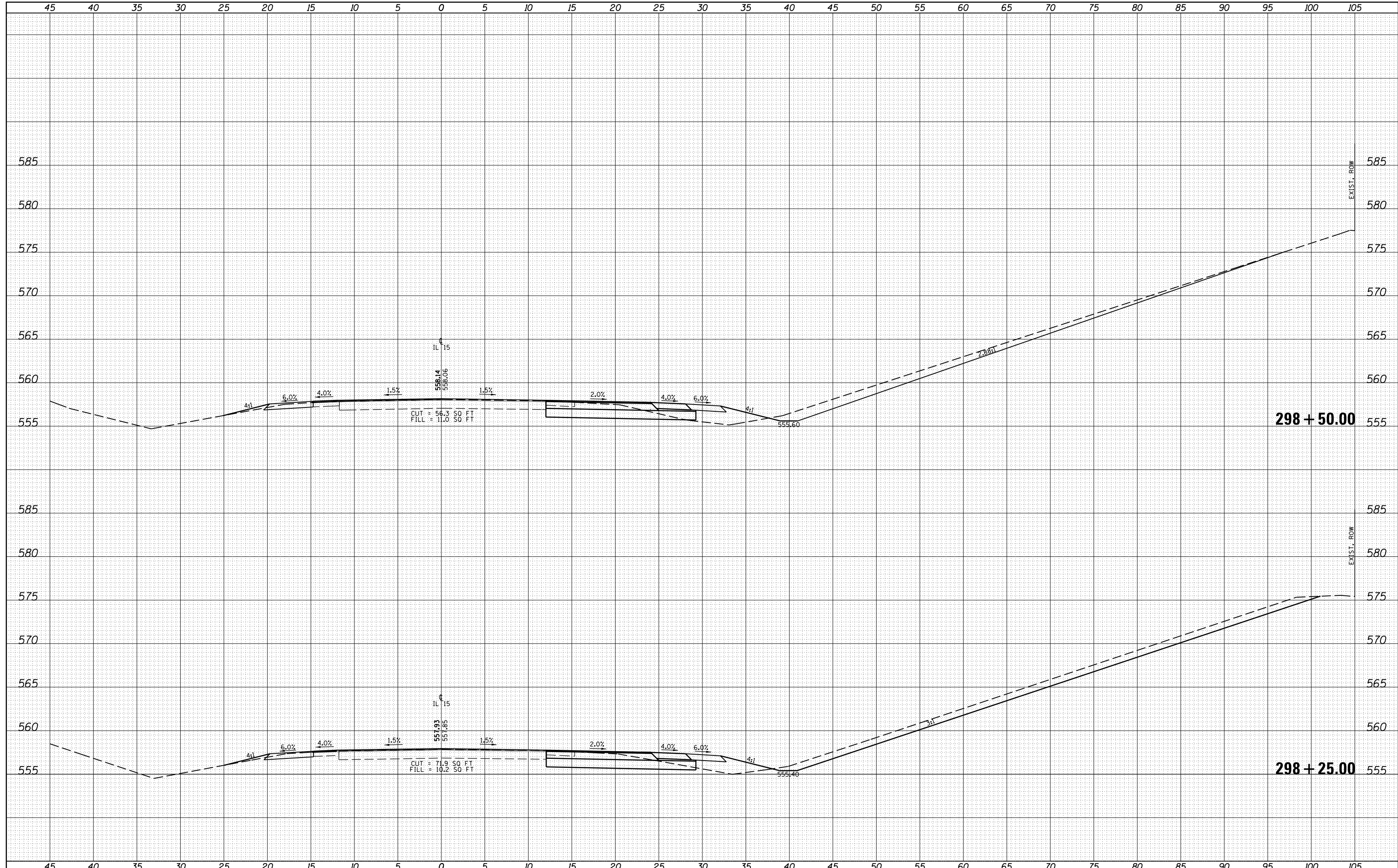
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FILE NAME =	USER NAME = krenz_jc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 9.4444 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 78509		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 12/14/2016	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA. 297+75.00 TO STA. 298+00.00		

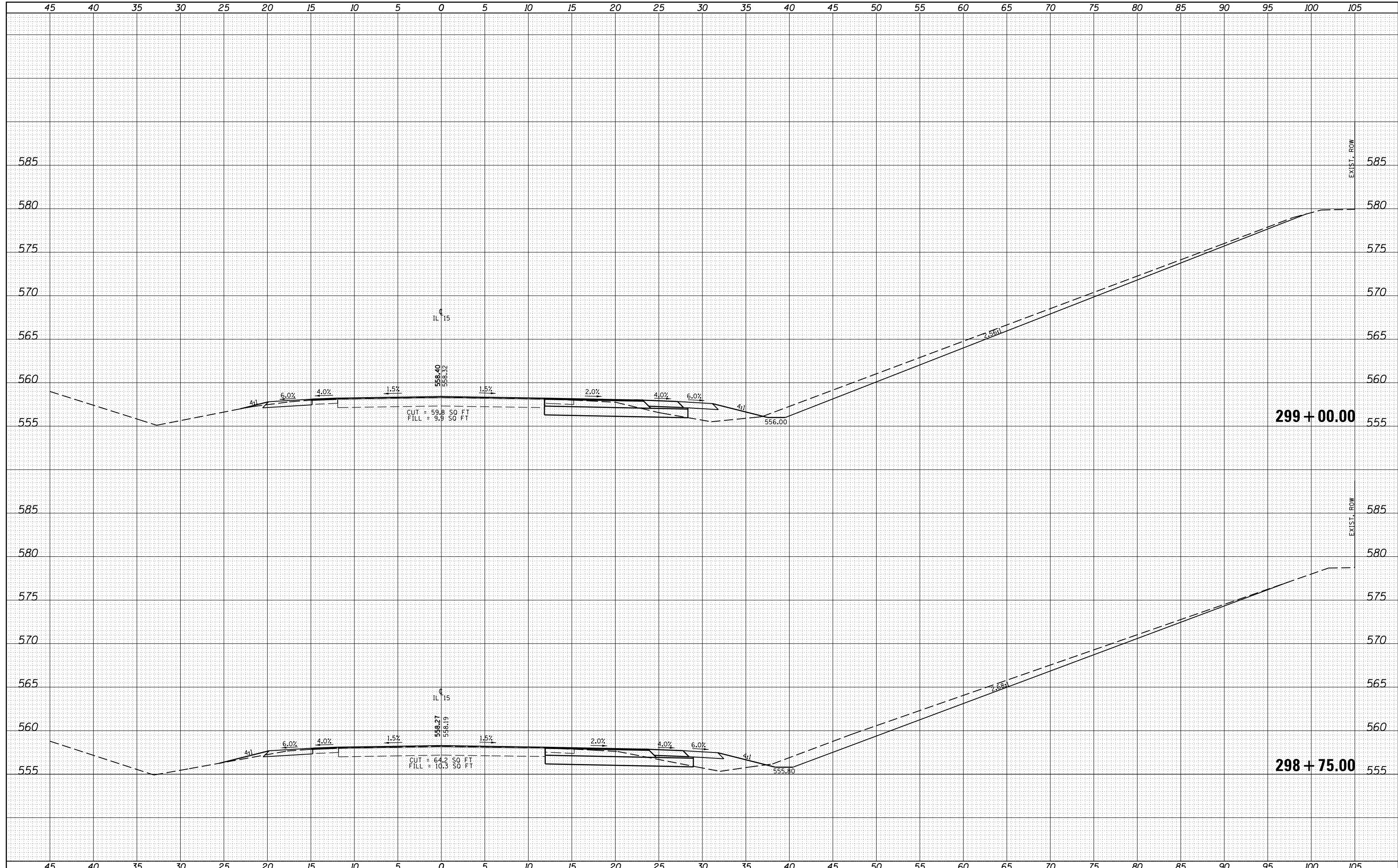
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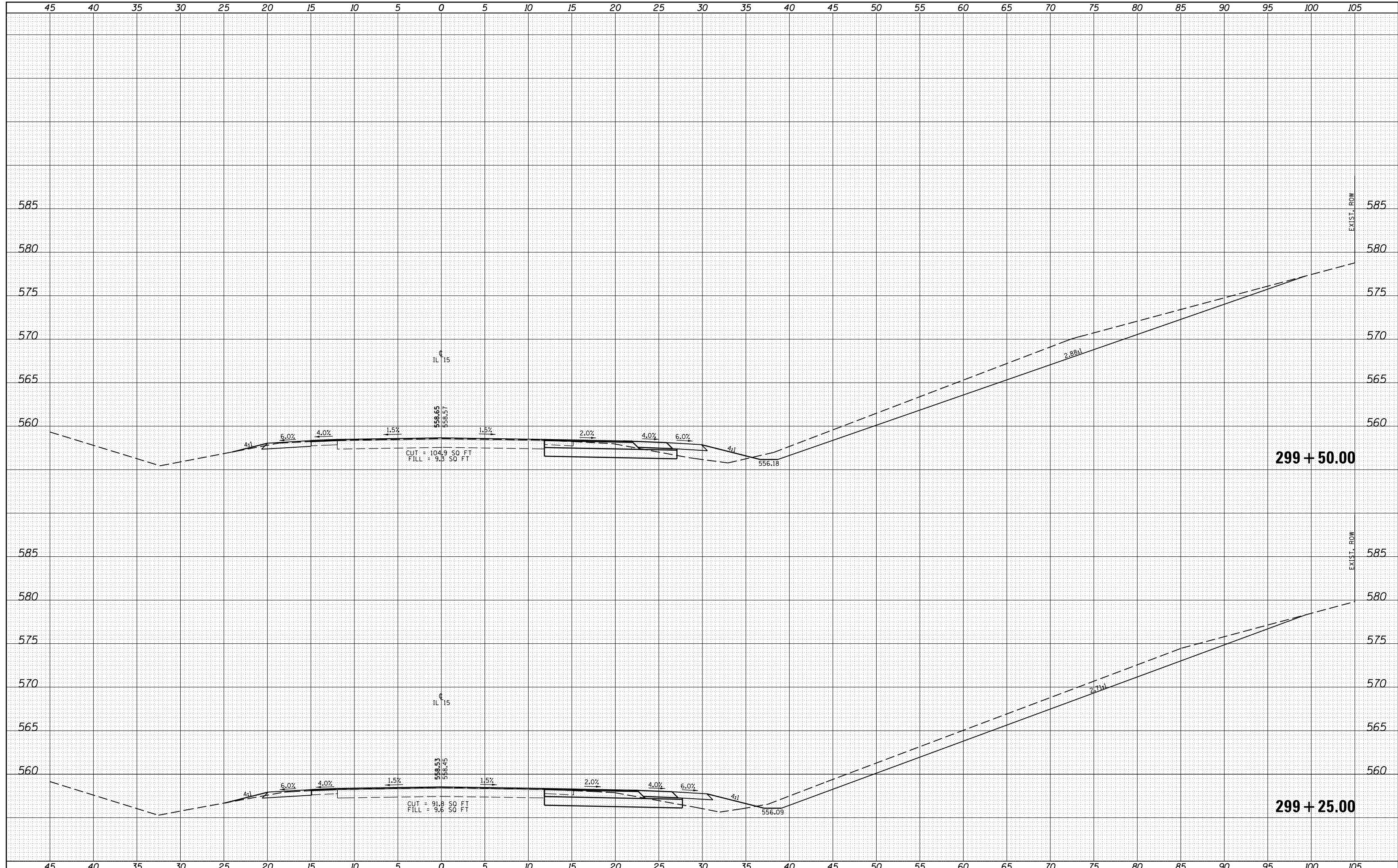
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 9.4444 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 78509			ILLINOIS FED. AID PROJECT	
	PLOT DATE = 12/14/2016	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA. 298+75.00 TO STA. 299+00.00

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

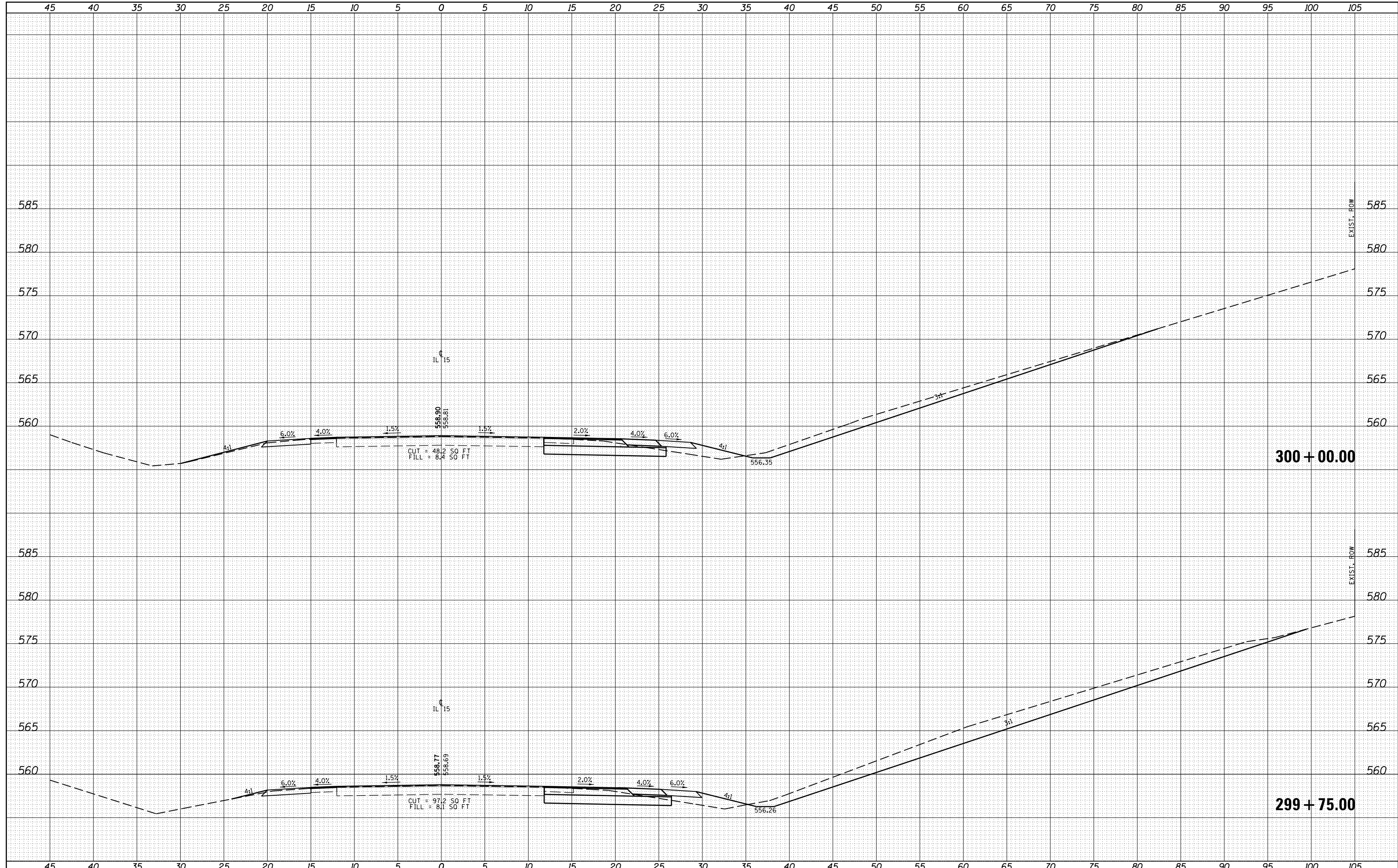
CROSS SECTIONS - IL 15

SCALE: SHEET OF SHEETS STA. 299+25.00 TO STA. 299+50.00

F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 69
CONTRACT NO. 78509			ILLINOIS FED. AID PROJECT	

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

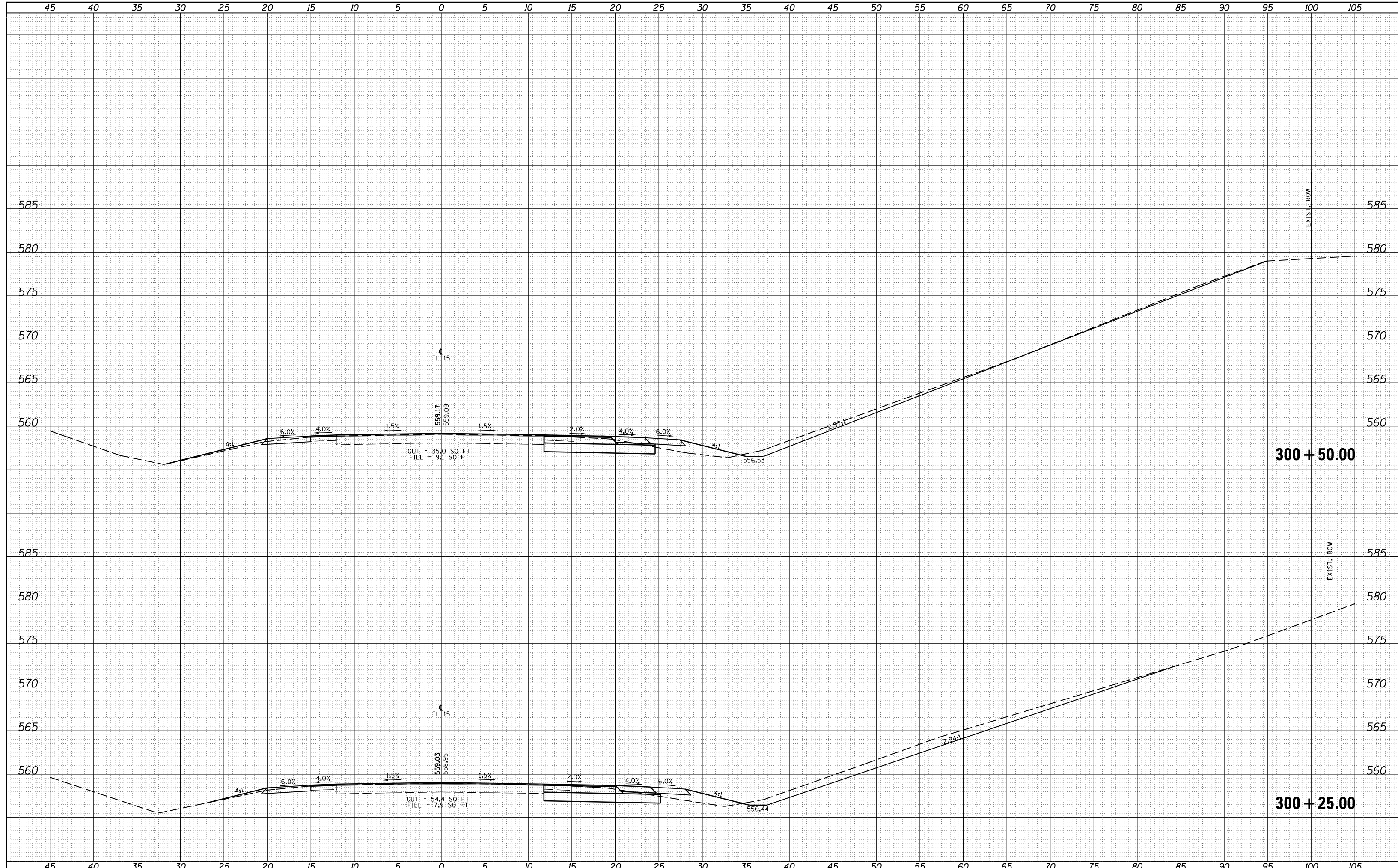
CROSS SECTIONS - IL 15

SCALE: SHEET OF SHEETS STA. 299+75.00 TO STA. 300+00.00

F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 70
CONTRACT NO. 78509			ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

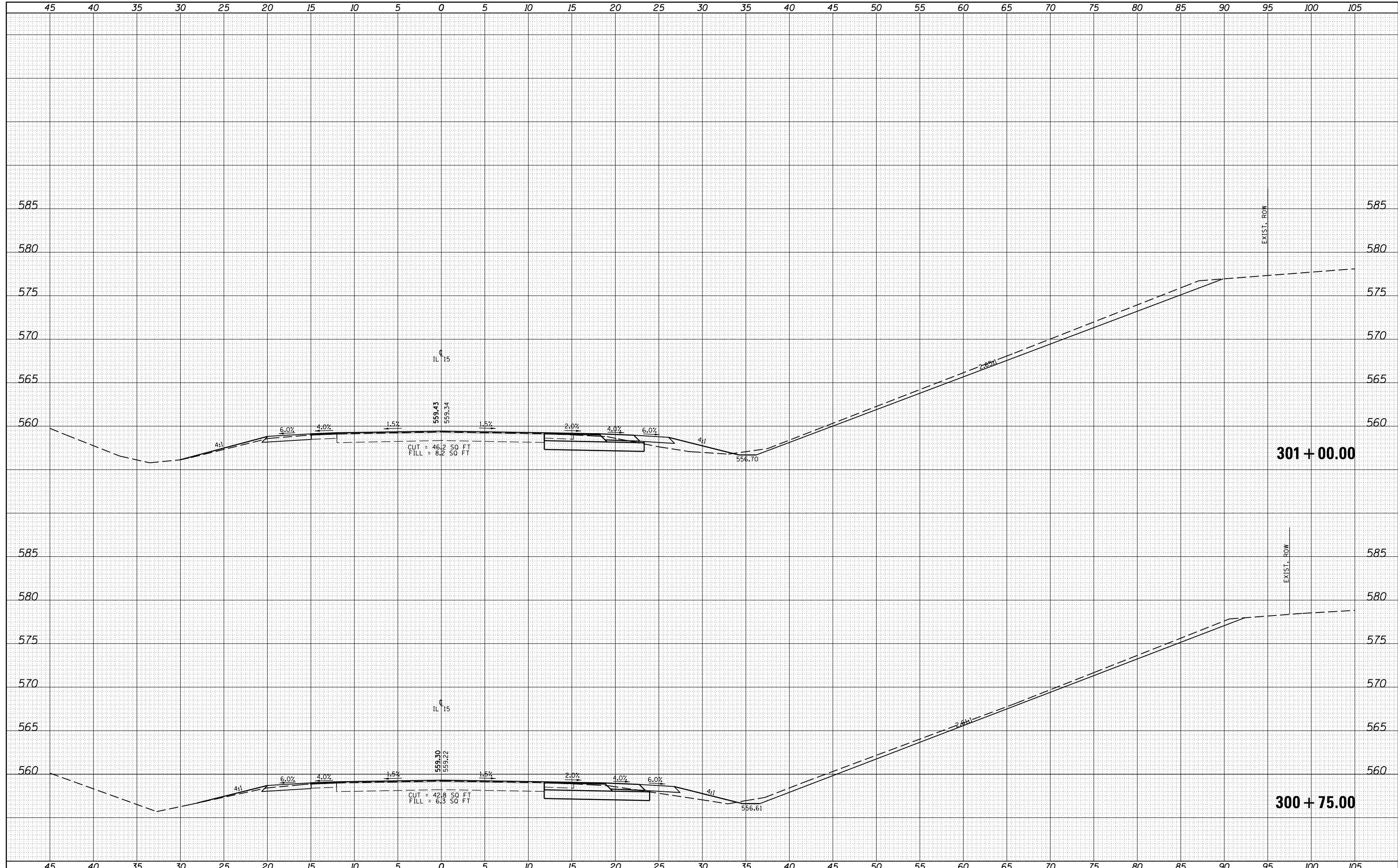
CROSS SECTIONS - IL 15

SCALE: SHEET OF SHEETS STA. 300+25.00 TO STA. 300+50.00

F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 71
CONTRACT NO. 78509			ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

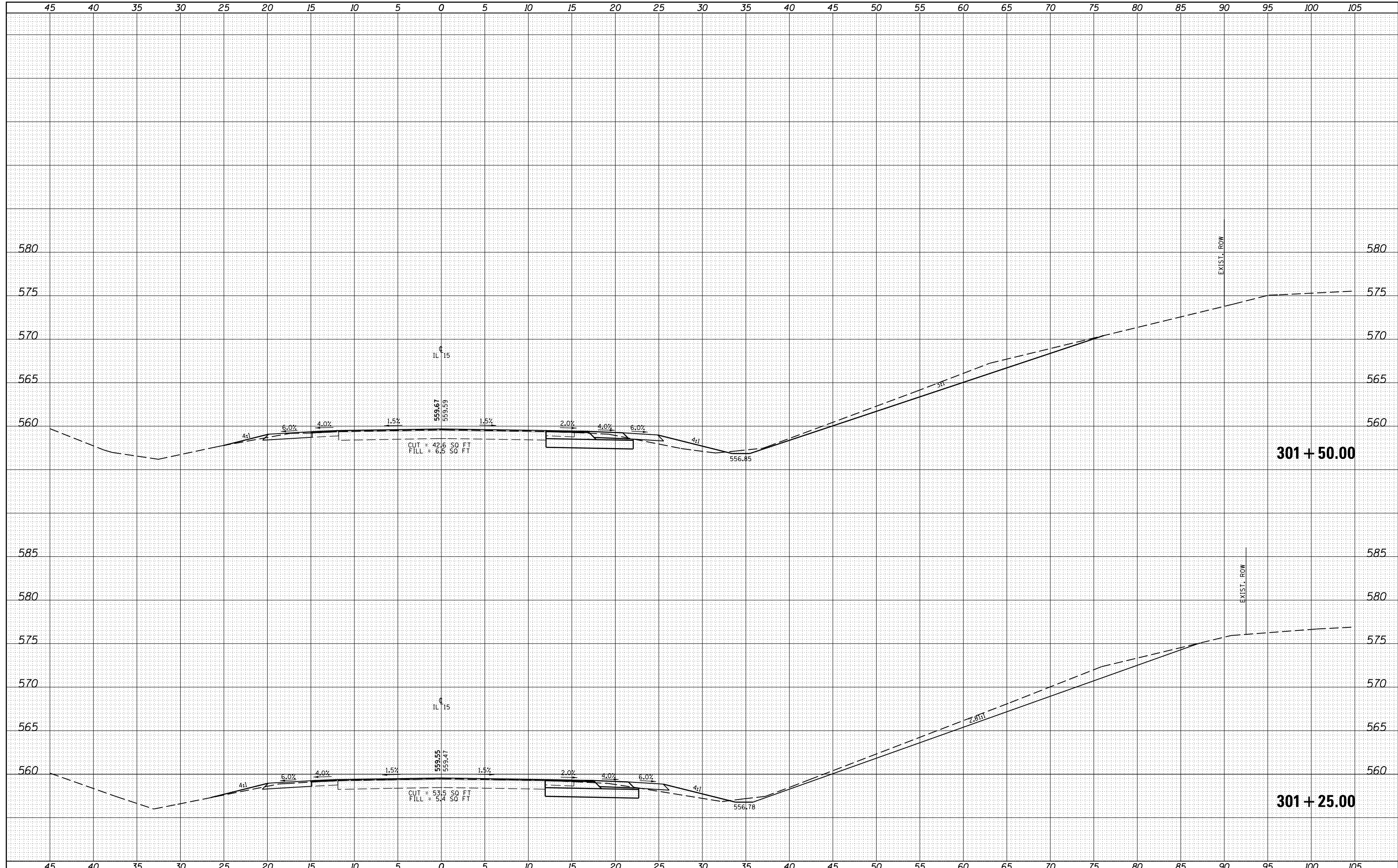
CROSS SECTIONS - IL 15

SCALE: SHEET OF SHEETS STA. 300+75.00 TO STA. 301+00.00

F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 72
CONTRACT NO. 78509			ILLINOIS FED. AID PROJECT	

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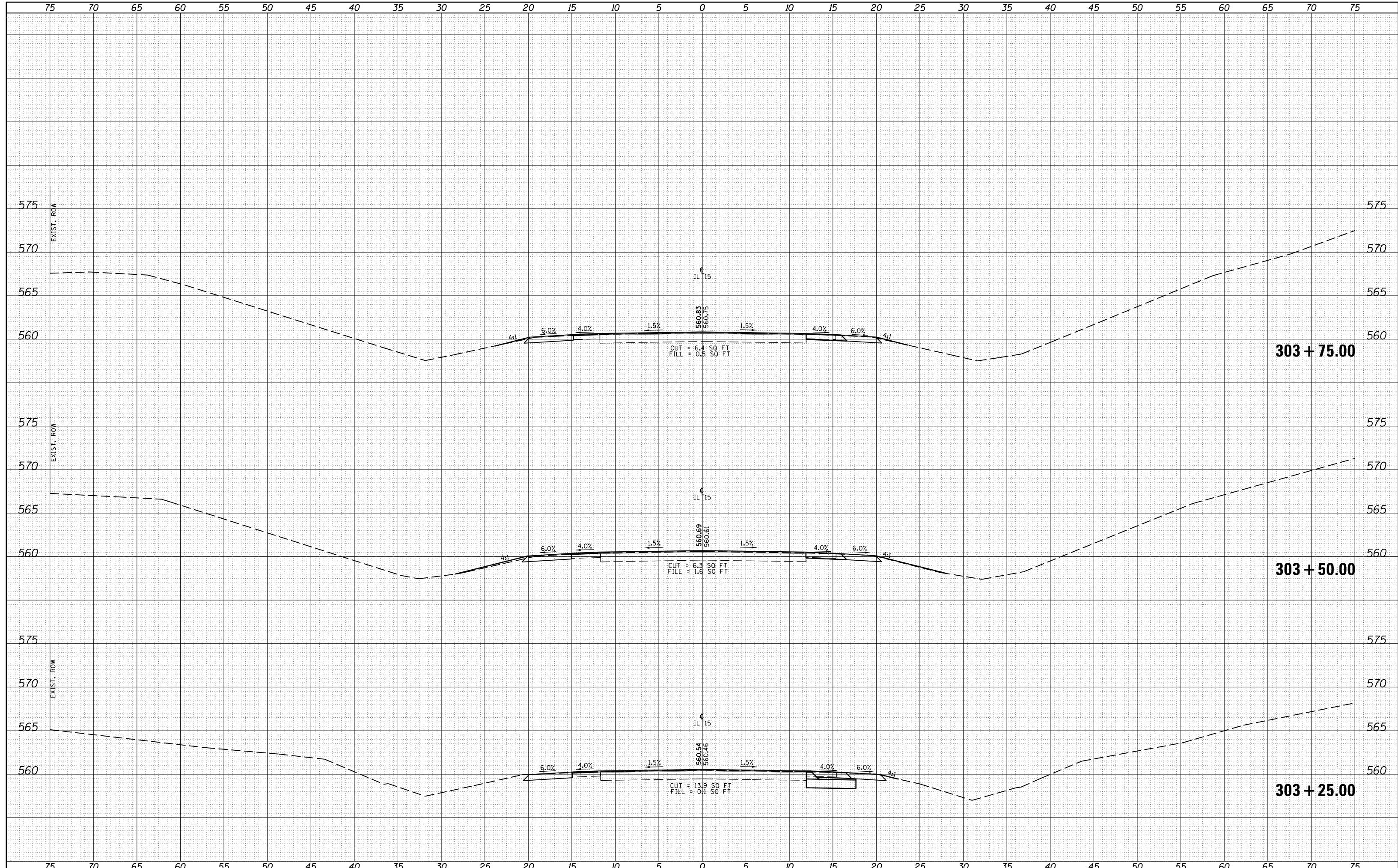
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 15		F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 73	
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Default	PLOT SCALE = 9.4444' / in.	CHECKED -	REVISED -									
	PLOT DATE = 12/14/2016	DATE -	REVISED -									

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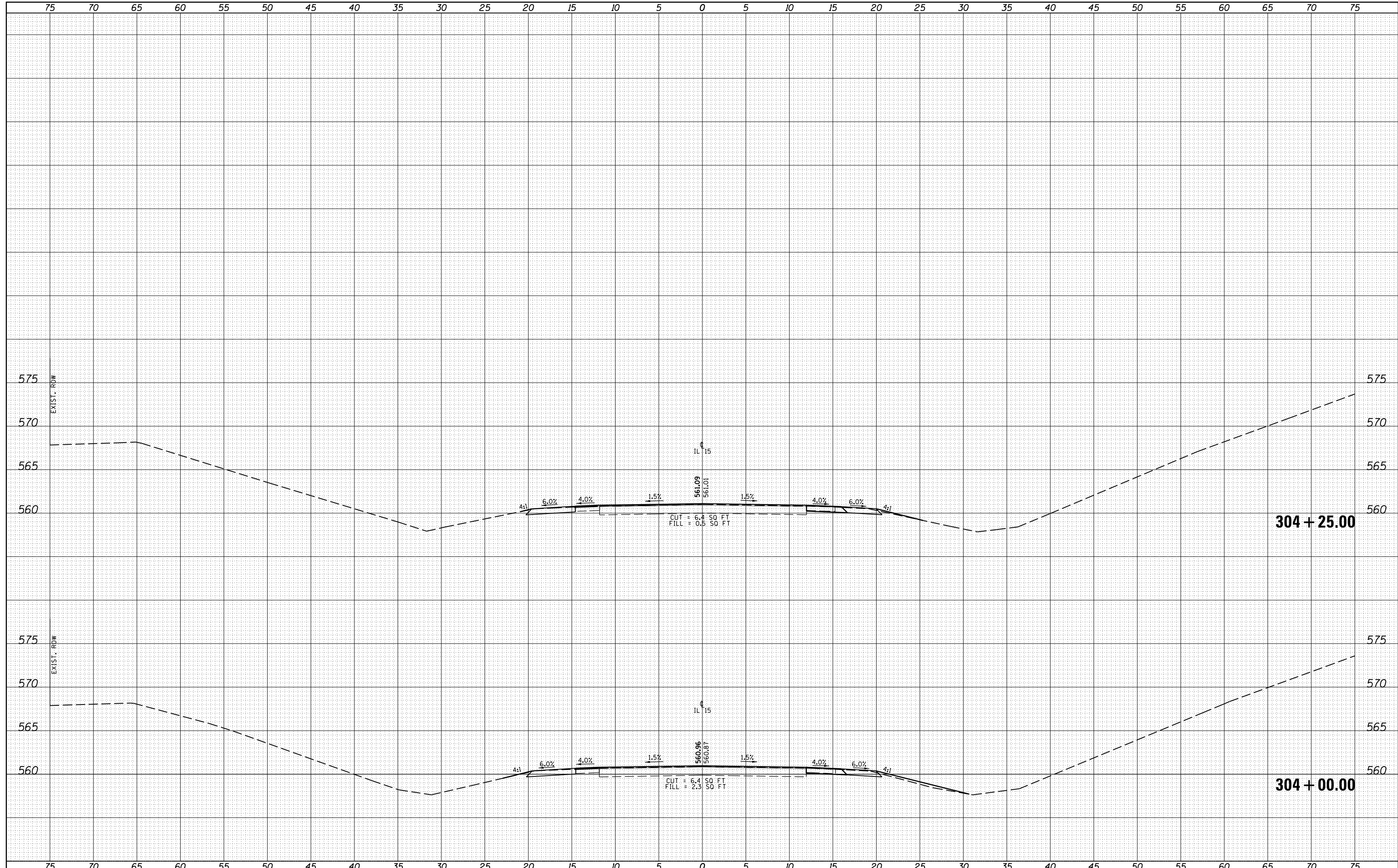
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 15		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 12/14/2016						ILLINOIS FED. AID PROJECT				

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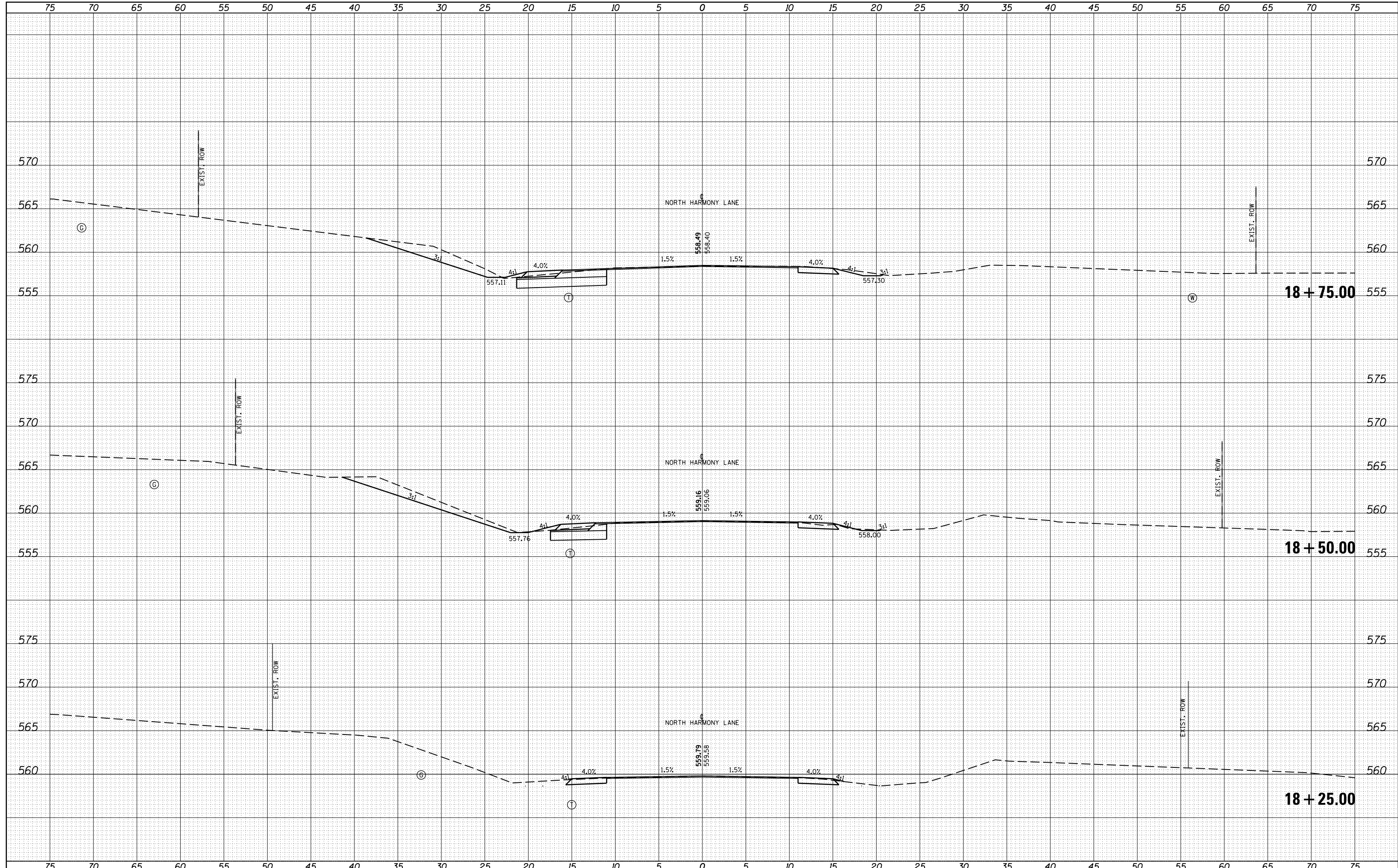
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - IL 15			
SCALE:	SHEET	OF	SHEETS
			STA. 304+00.00 TO STA. 304+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	16-2(N-1)	JEFFERSON	110	77
			CONTRACT NO. 78509	
ILLINOIS FED. AID PROJECT				

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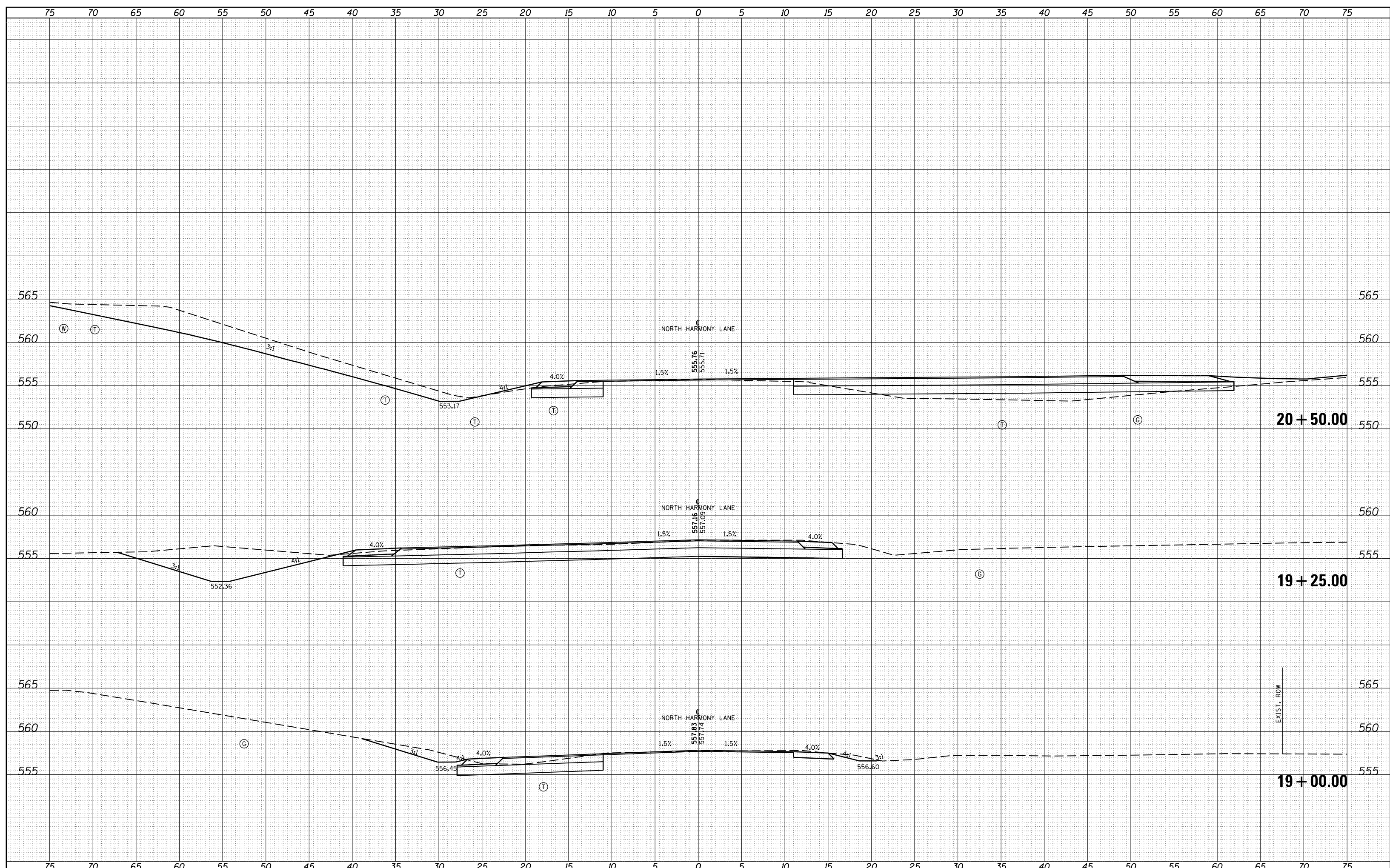
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FILE NAME =	USER NAME = kranz_jc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - HARMONY			F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 78
pw:\IL084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 9\Projects\78509\CADD\DRAWN\sheet\78509-shtj\sections.dgn	DRAWN	REVISOR	REVISOR		SCALE:	SHEET	OF	SHEETS	STA. 18+25.00	TO STA. 18+75.00	ILLINOIS FED. AID PROJECT	
PLOT SCALE = 9.4444' / 1"	CHECKED -	REVISOR	REVISOR								CONTRACT NO. 78509	
Default	PLOT DATE = 12/14/2016	DATE -	REVISOR									

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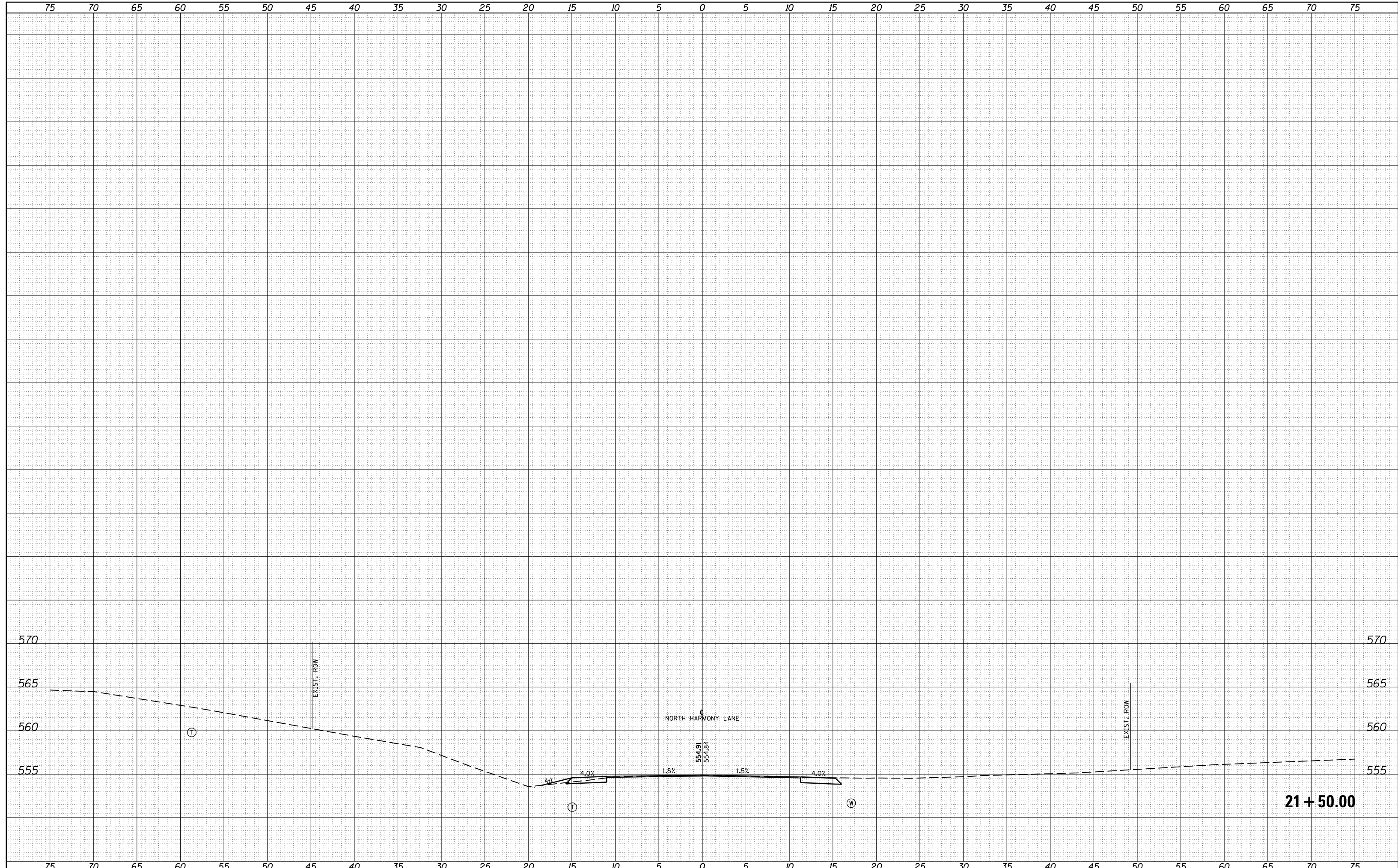
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - HARMONY		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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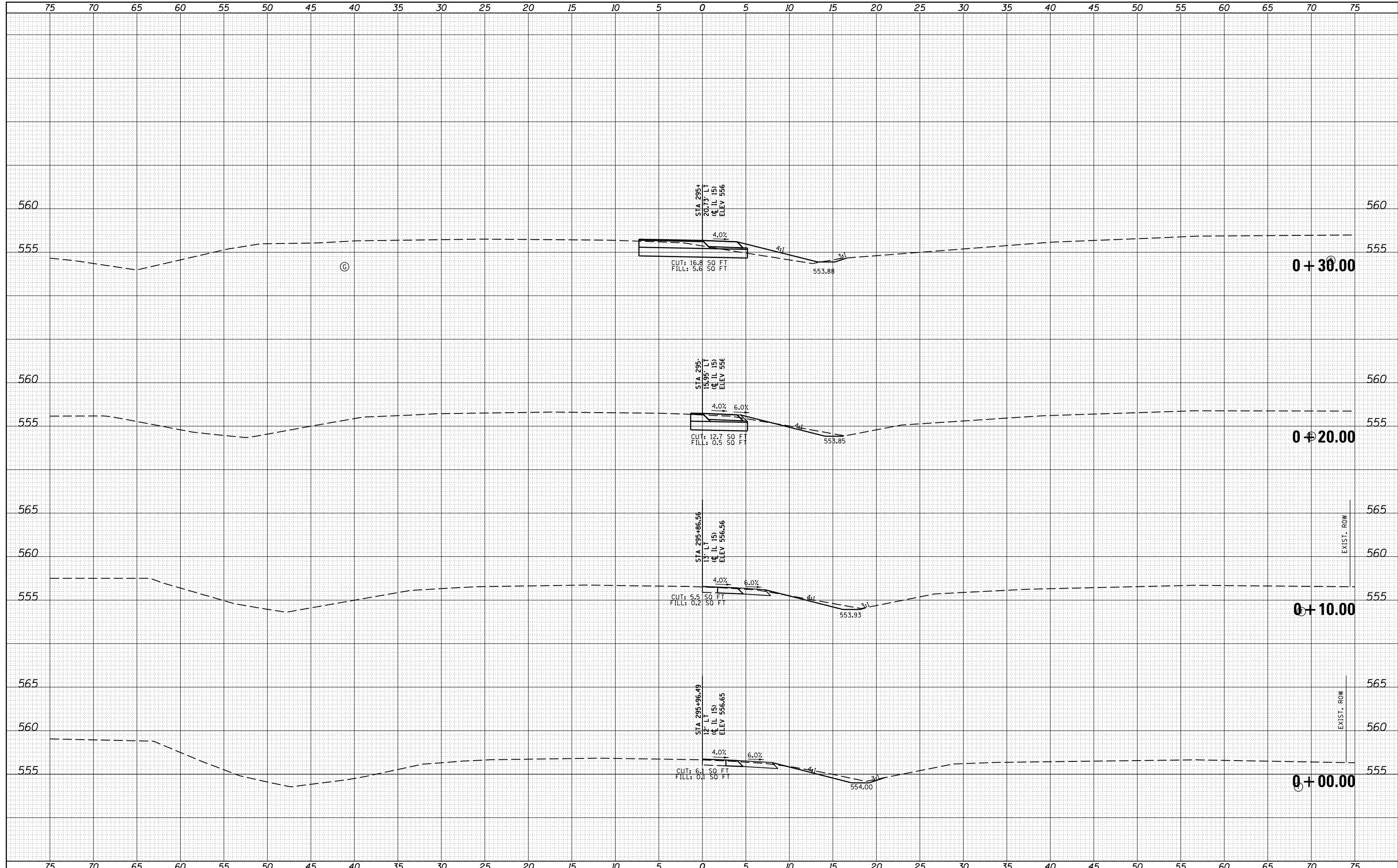
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - HARMONY			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 9.4444 ' / in.	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. 21+50.00 TO STA. 21+50.00			CONTRACT NO. 78509				
	PLOT DATE = 12/14/2016							ILLINOIS FED. AID PROJECT				

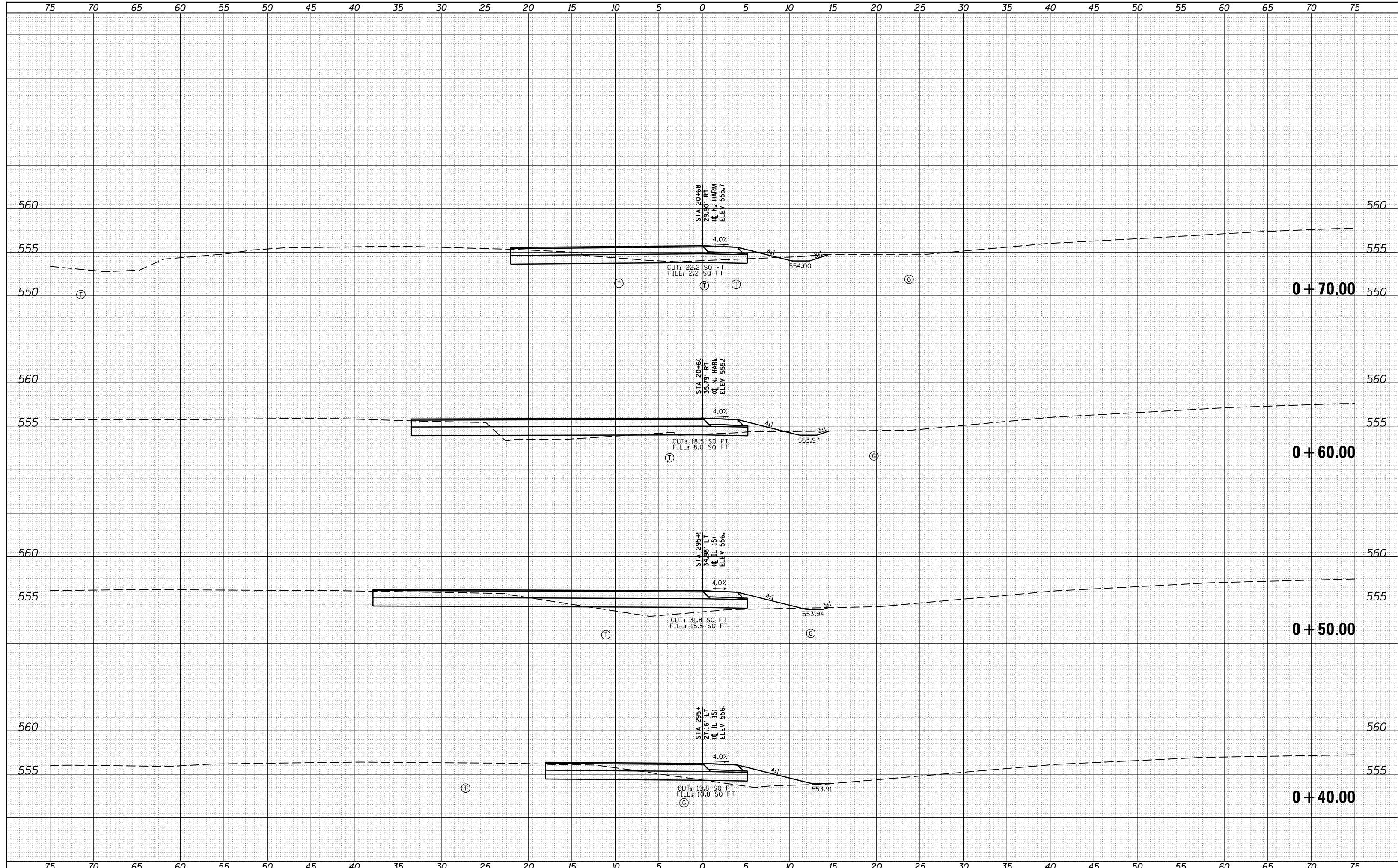
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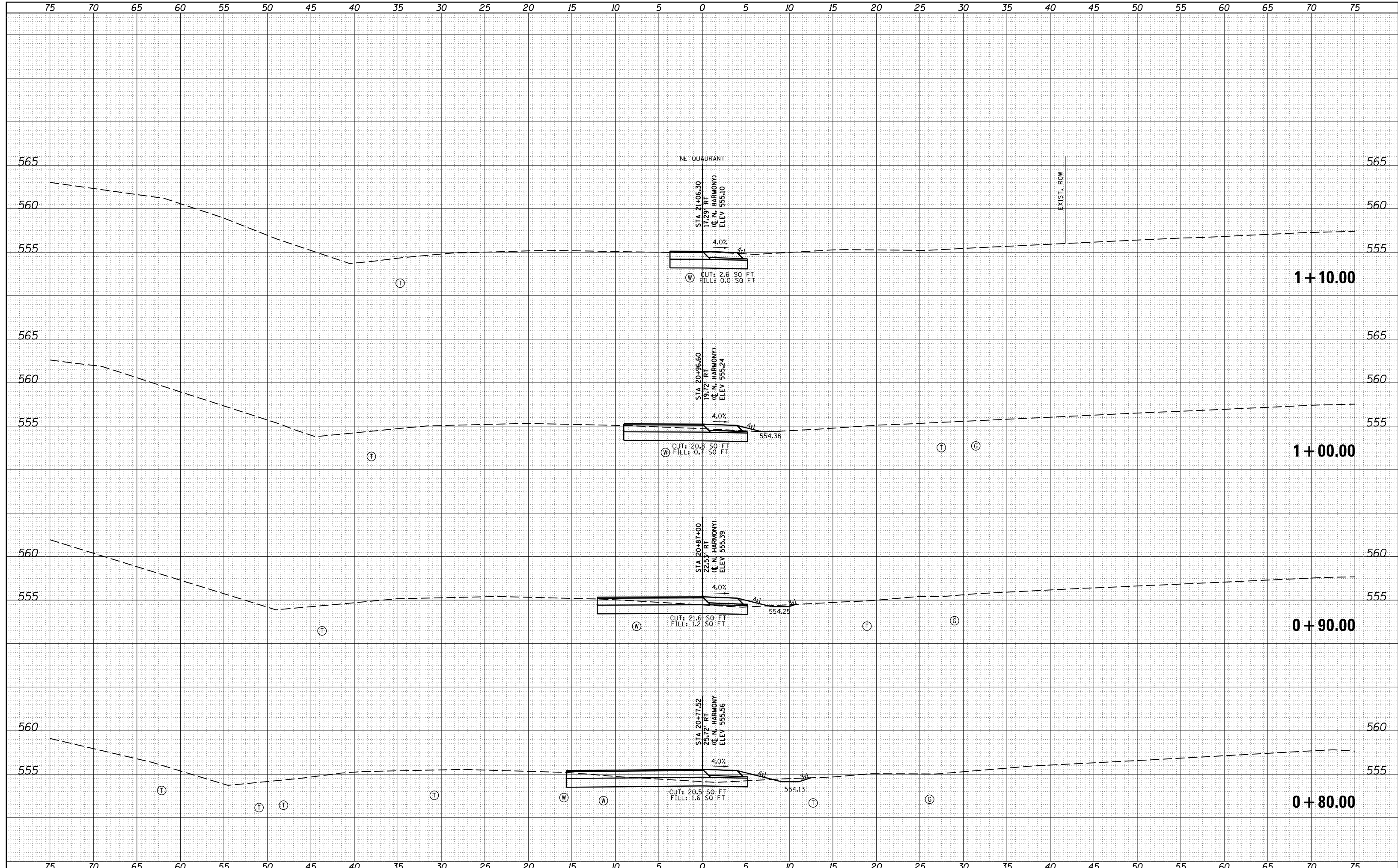
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - NE QUAD
 SCALE: SHEET OF SHEETS STA. +40.00 TO STA. +70.00

F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 83
CONTRACT NO. 78509			ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

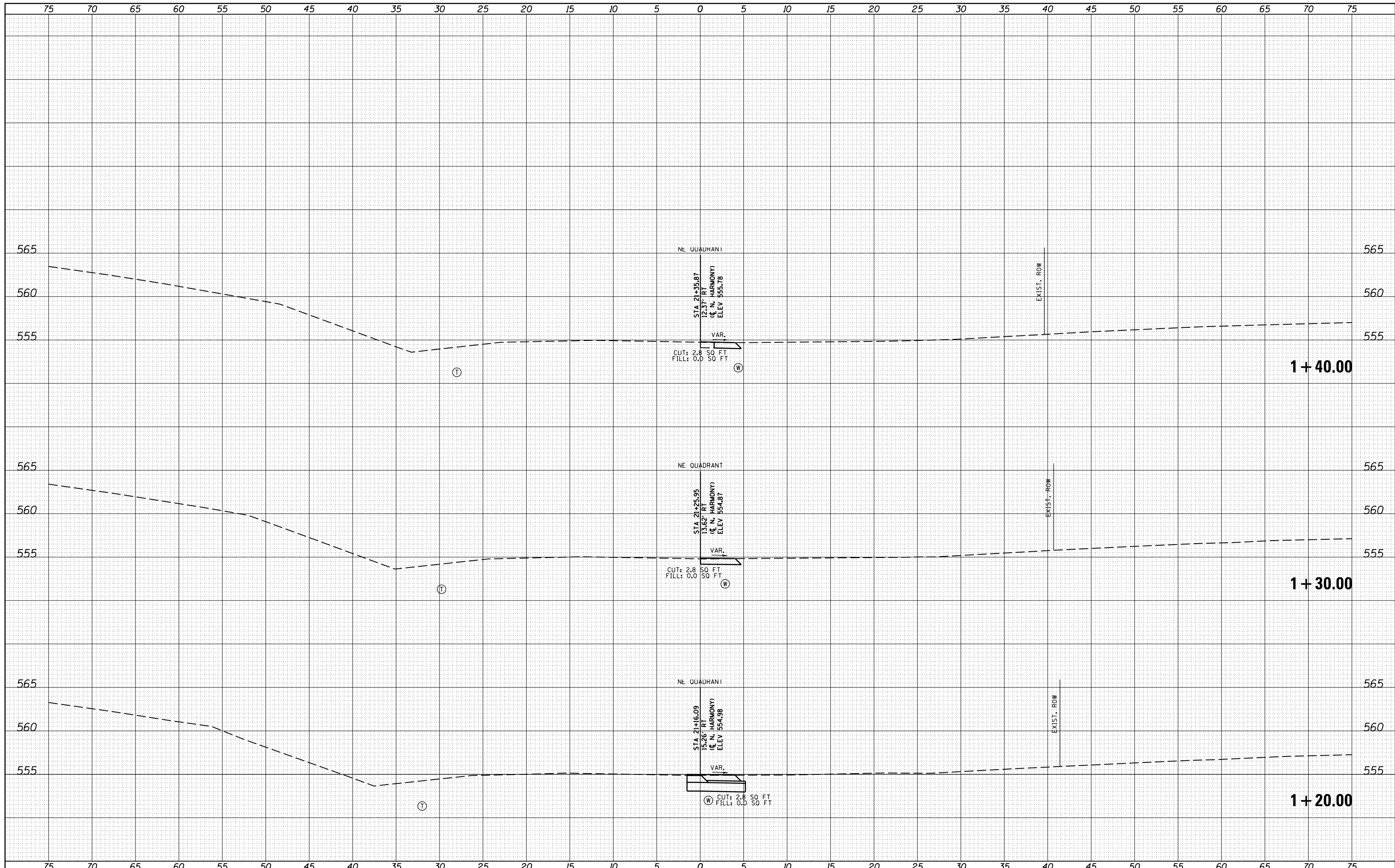
CROSS SECTIONS - NE QUAD

SCALE: SHEET OF SHEETS STA. +80.00 TO STA. 1+10.00

F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 84
				CONTRACT NO. 78509
ILLINOIS FED. AID PROJECT				

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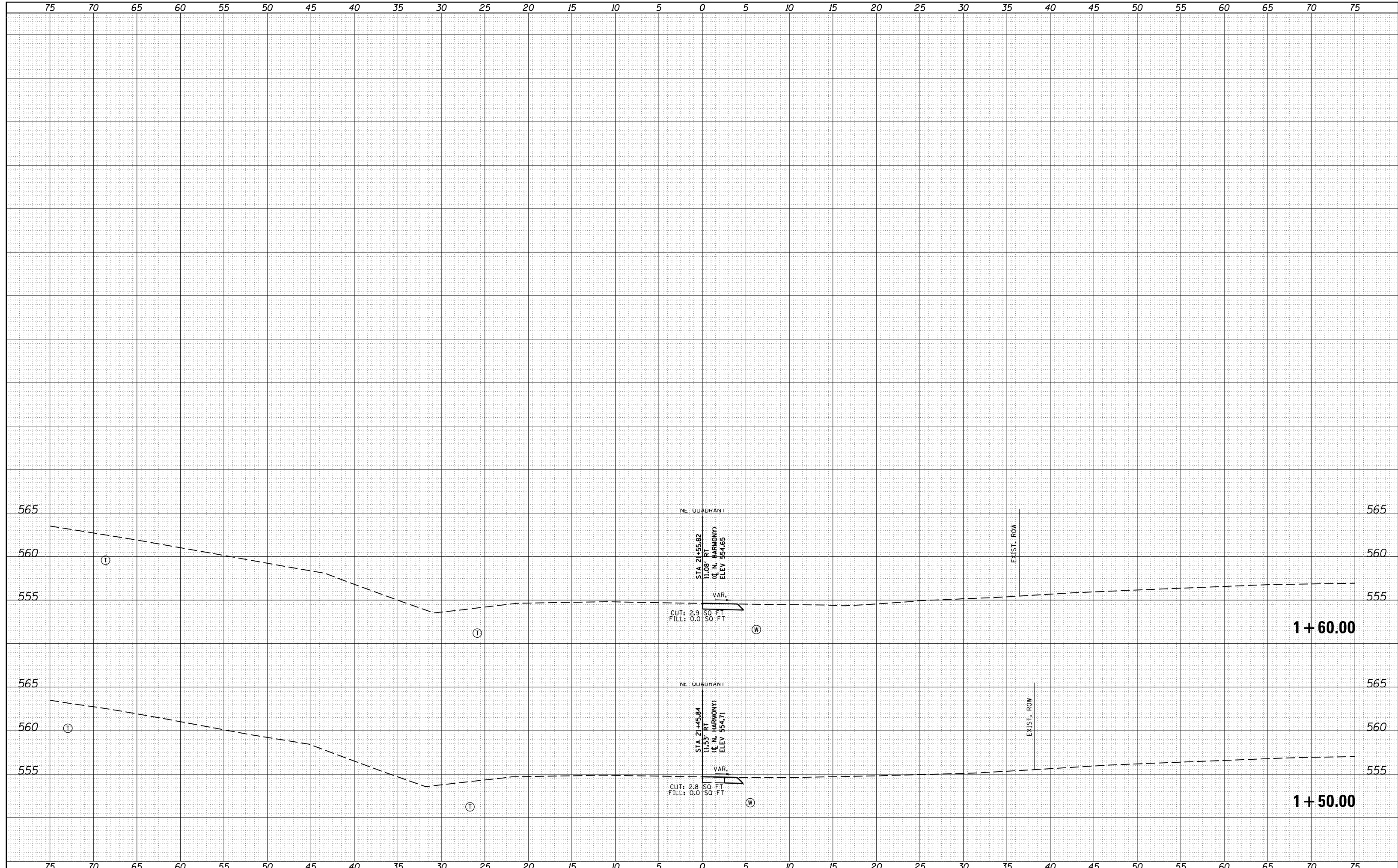
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - NE QUAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBID\INTEG.\Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 9\Projects\78509\CADD\DRAWN\sheet\78509-shtj-xsections.dgn	DRAWN	REVISED -	REVISED -			821	16-2(N-1)	JEFFERSON	110	85
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	PLOT DATE = 12/14/2016	DATE -	REVISED -			STA. 1+20.00 TO STA. 1+40.00		ILLINOIS FED. AID PROJECT		

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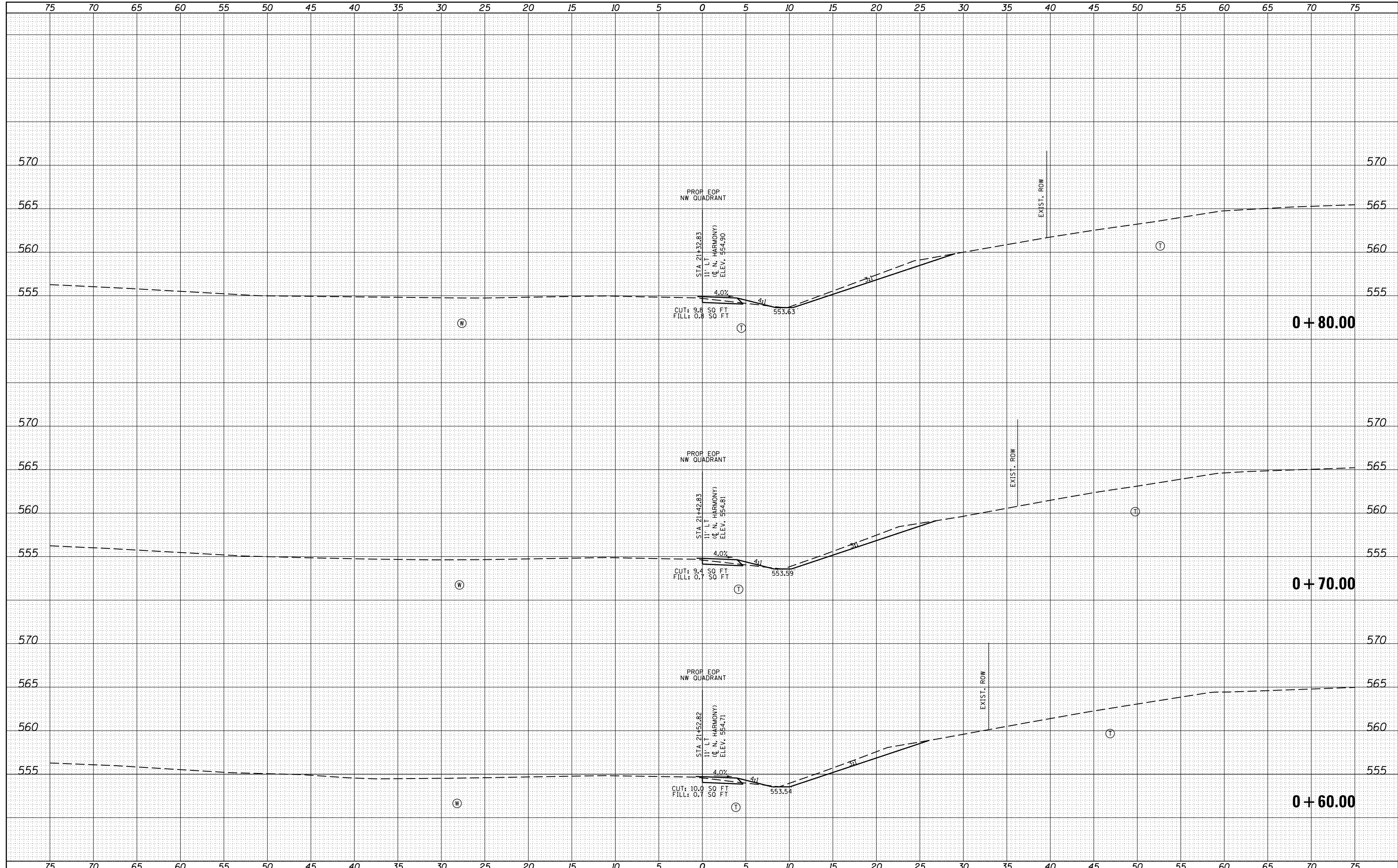
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	PLOT DATE = 12/14/2016					ILLINOIS FED. AID PROJECT					

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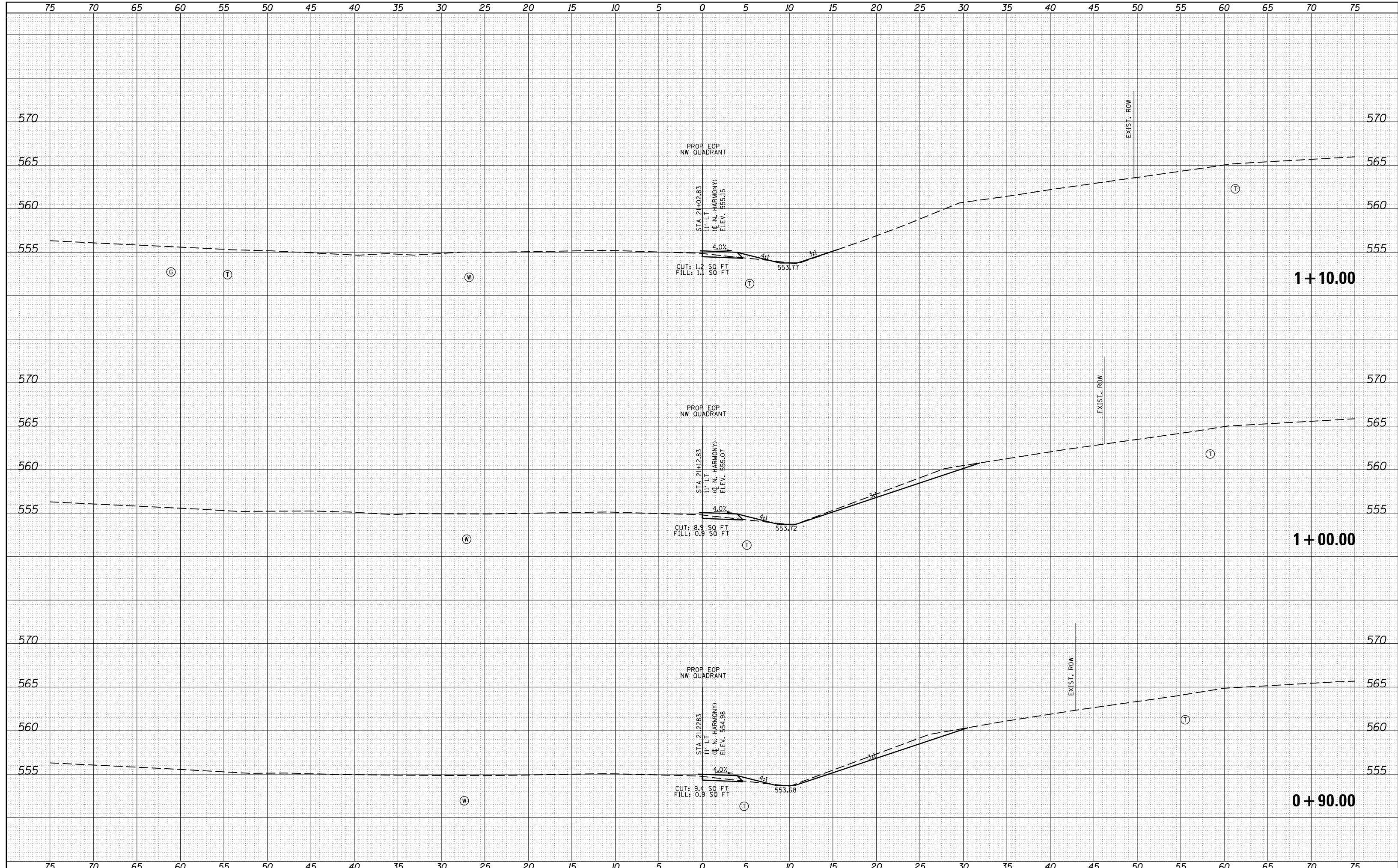
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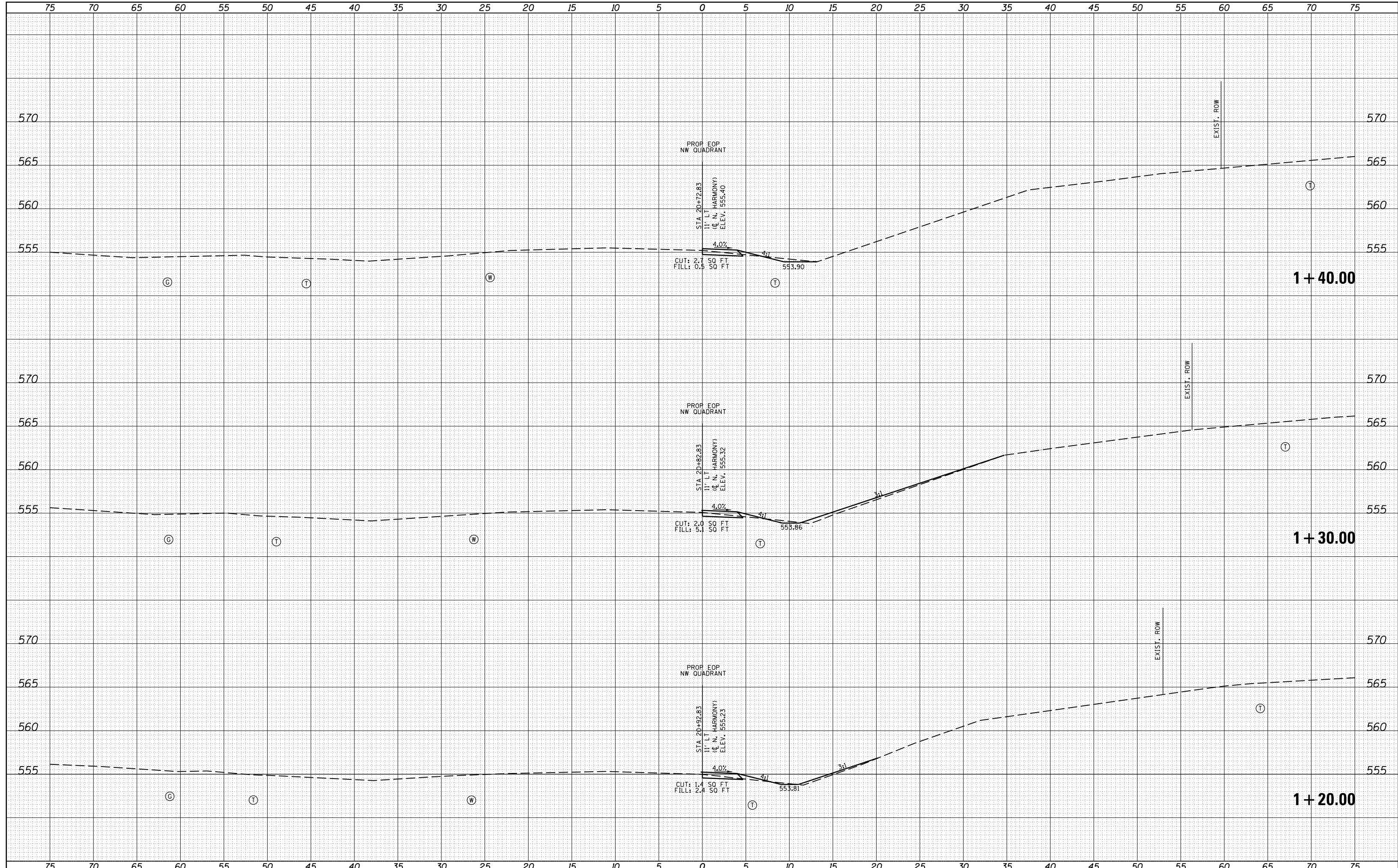
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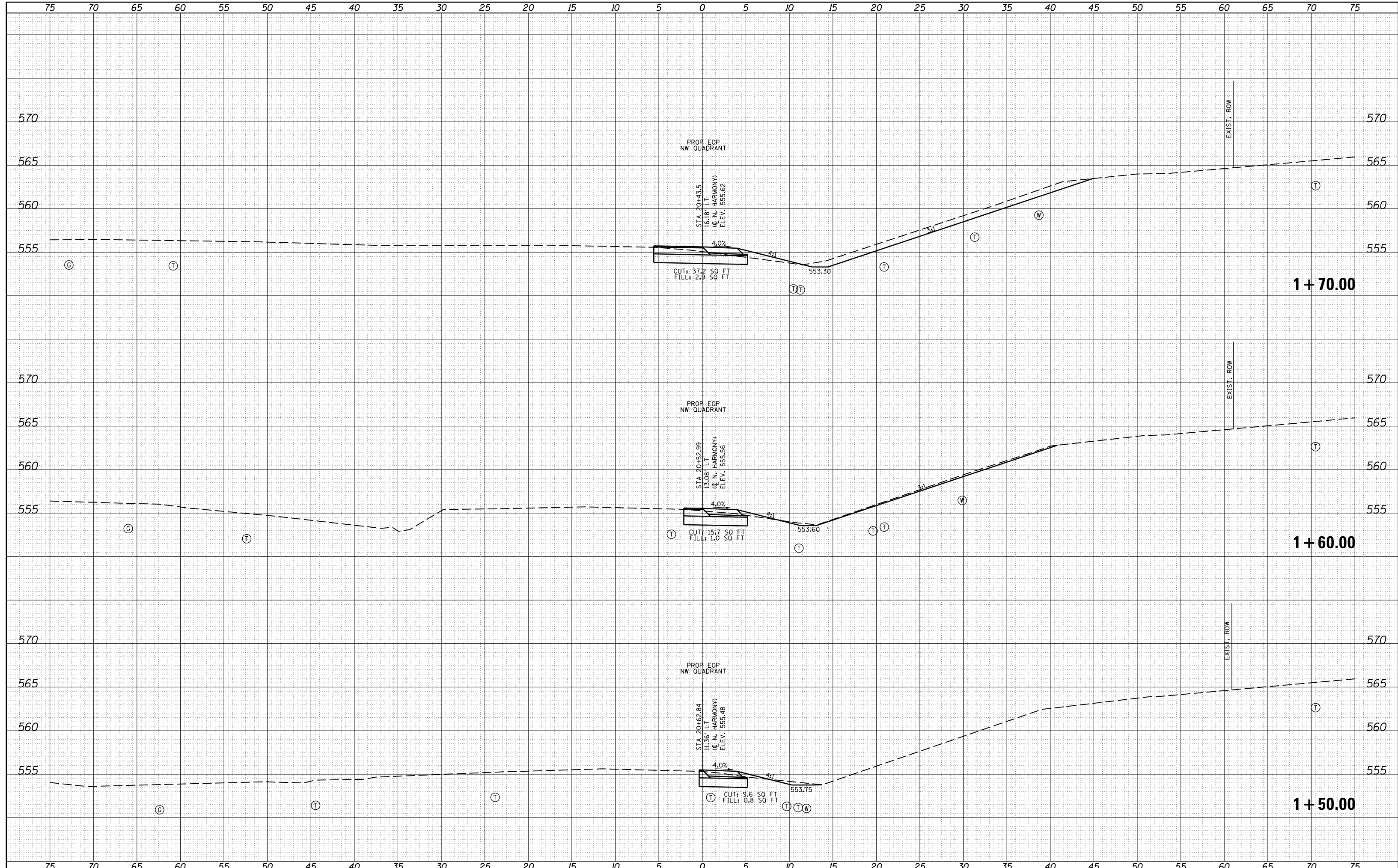
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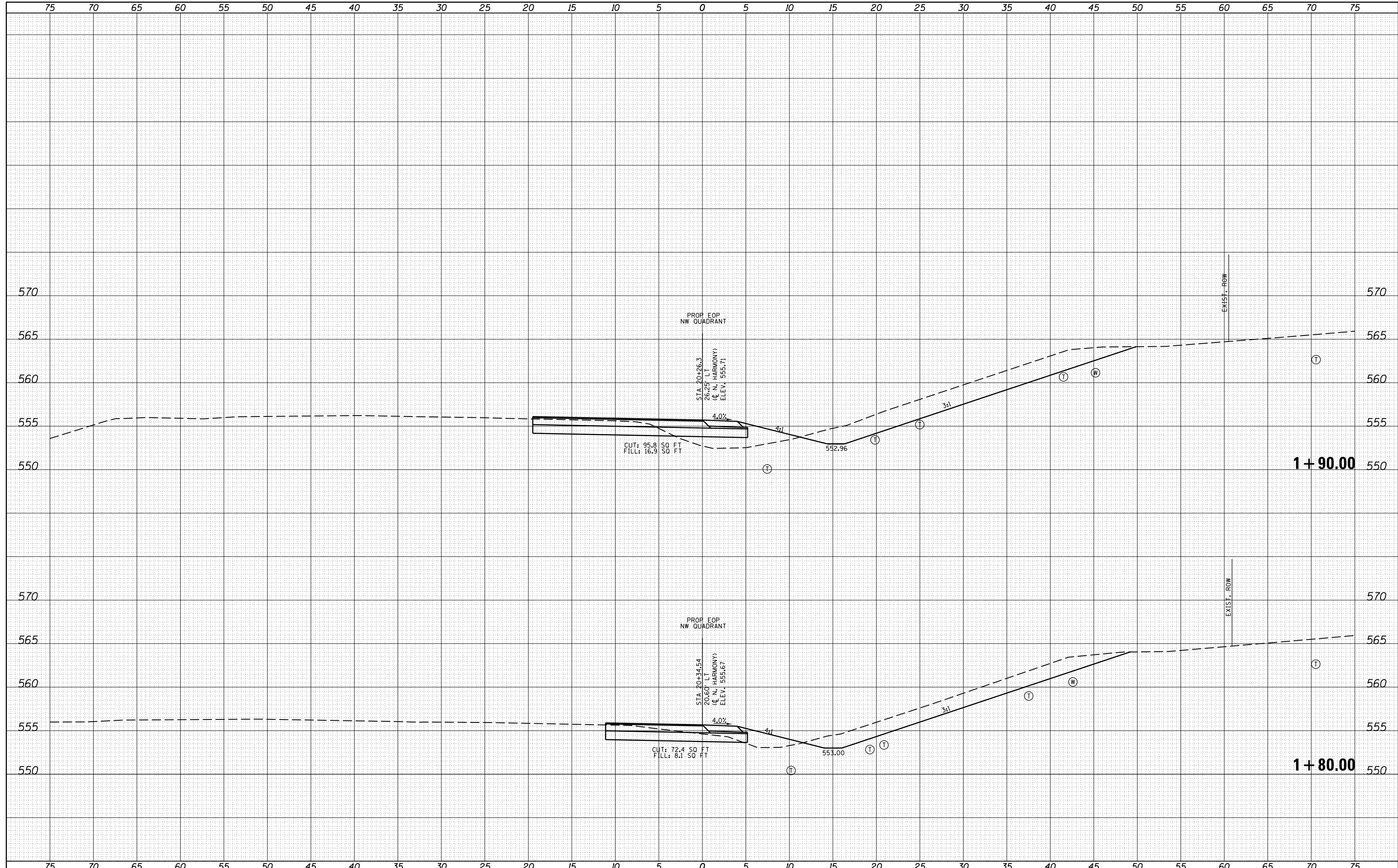
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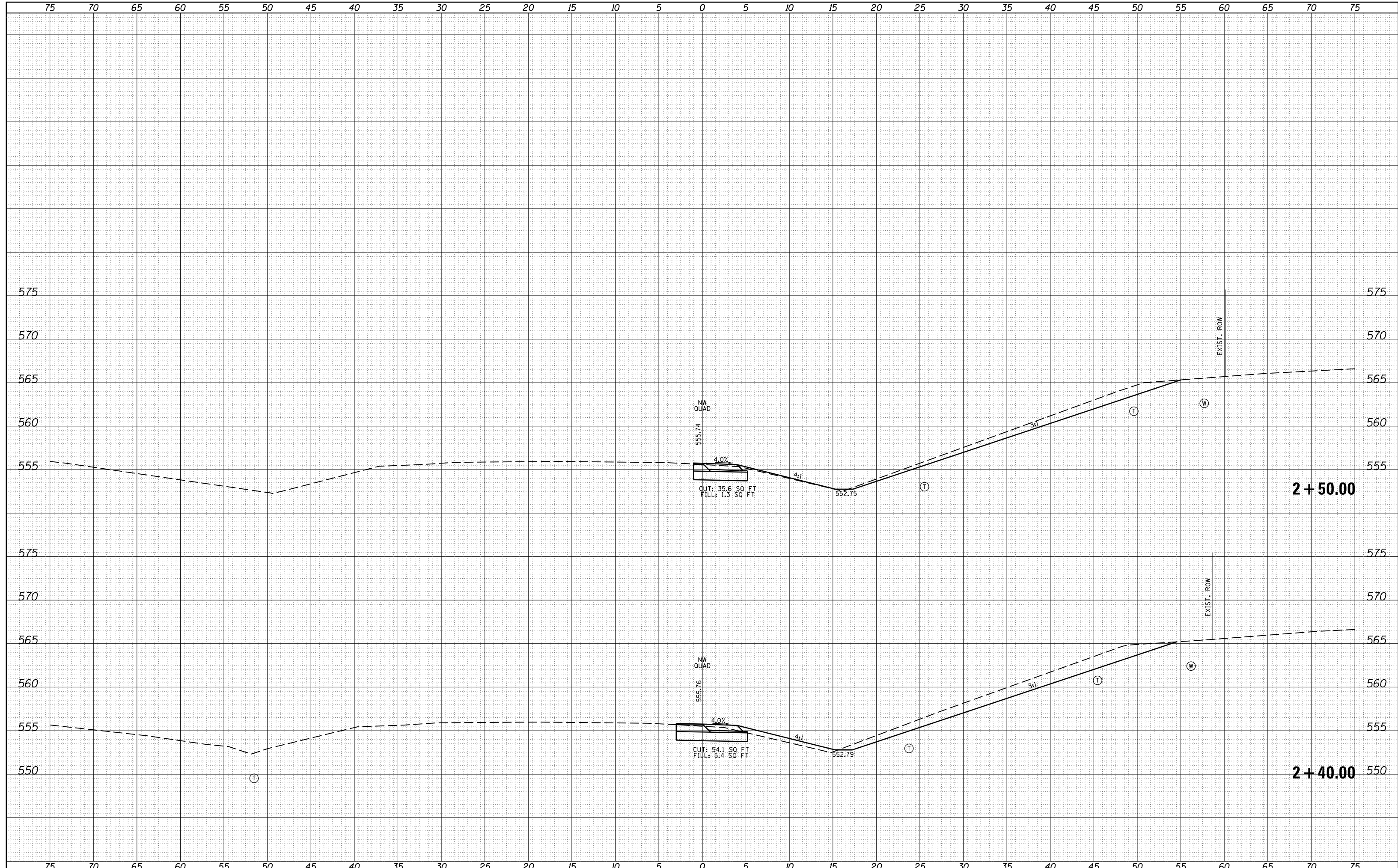
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	PLOT DATE = 12/14/2016					ILLINOIS FED. AID PROJECT					

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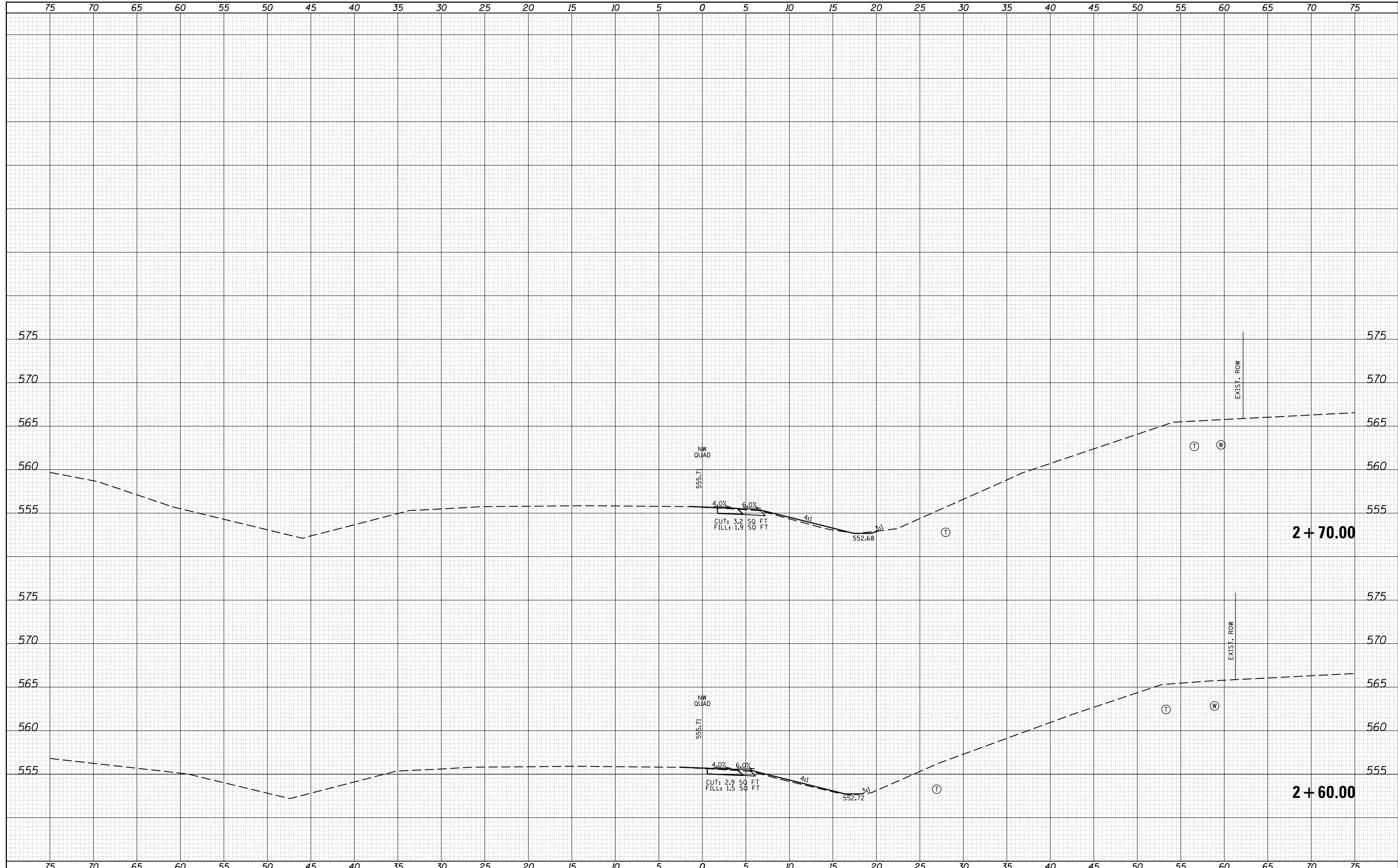
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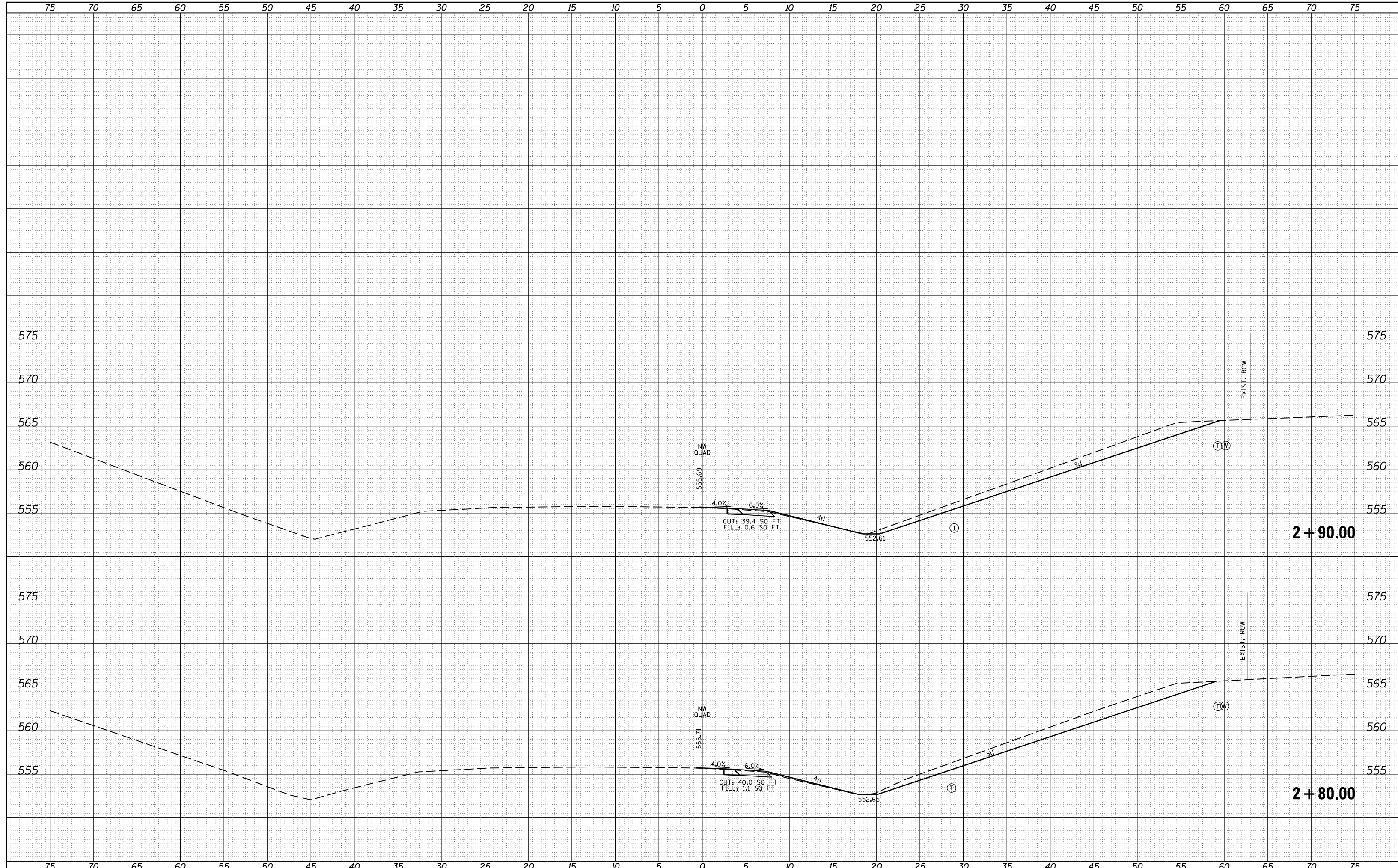
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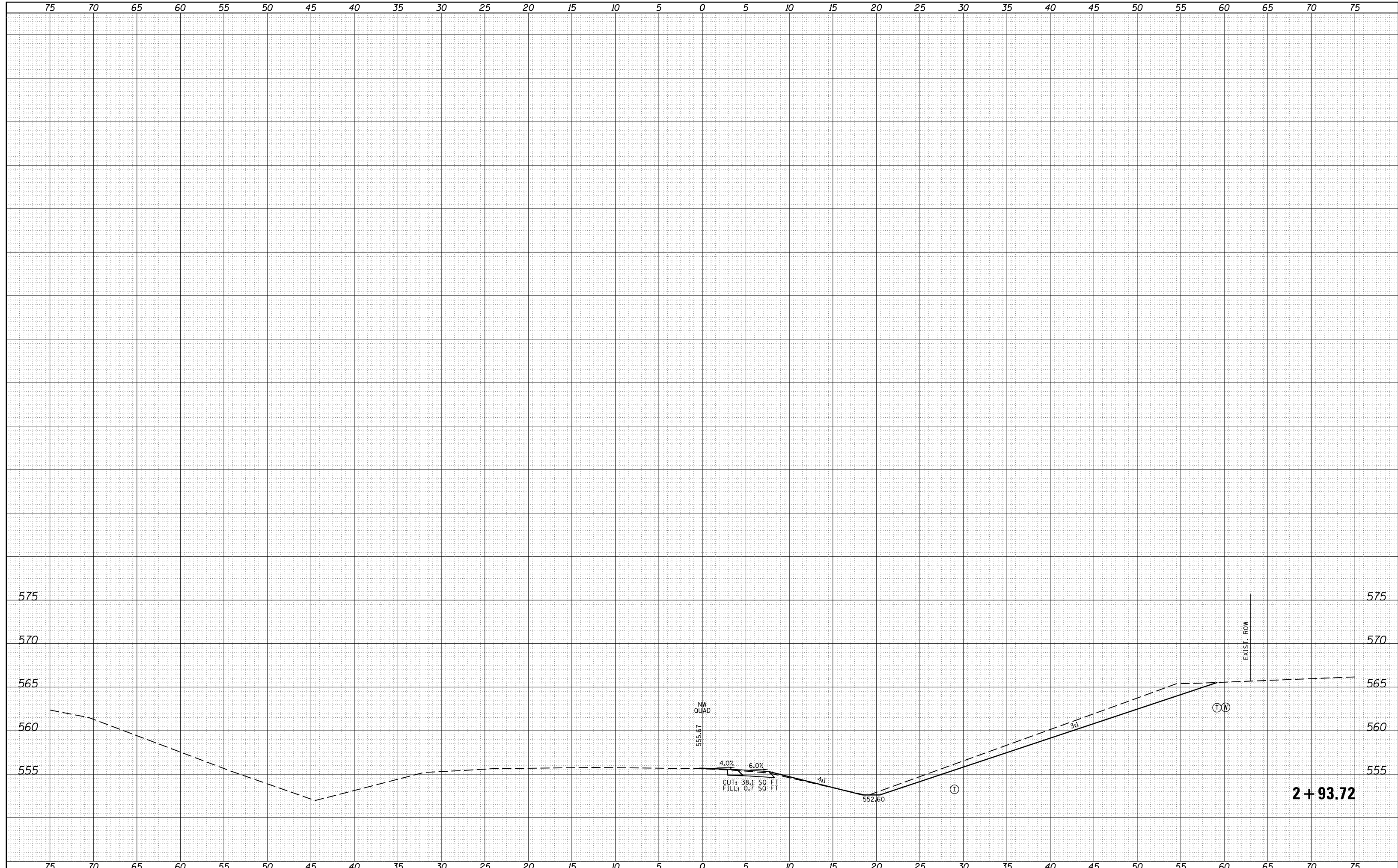
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - NW QUAD			F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 96
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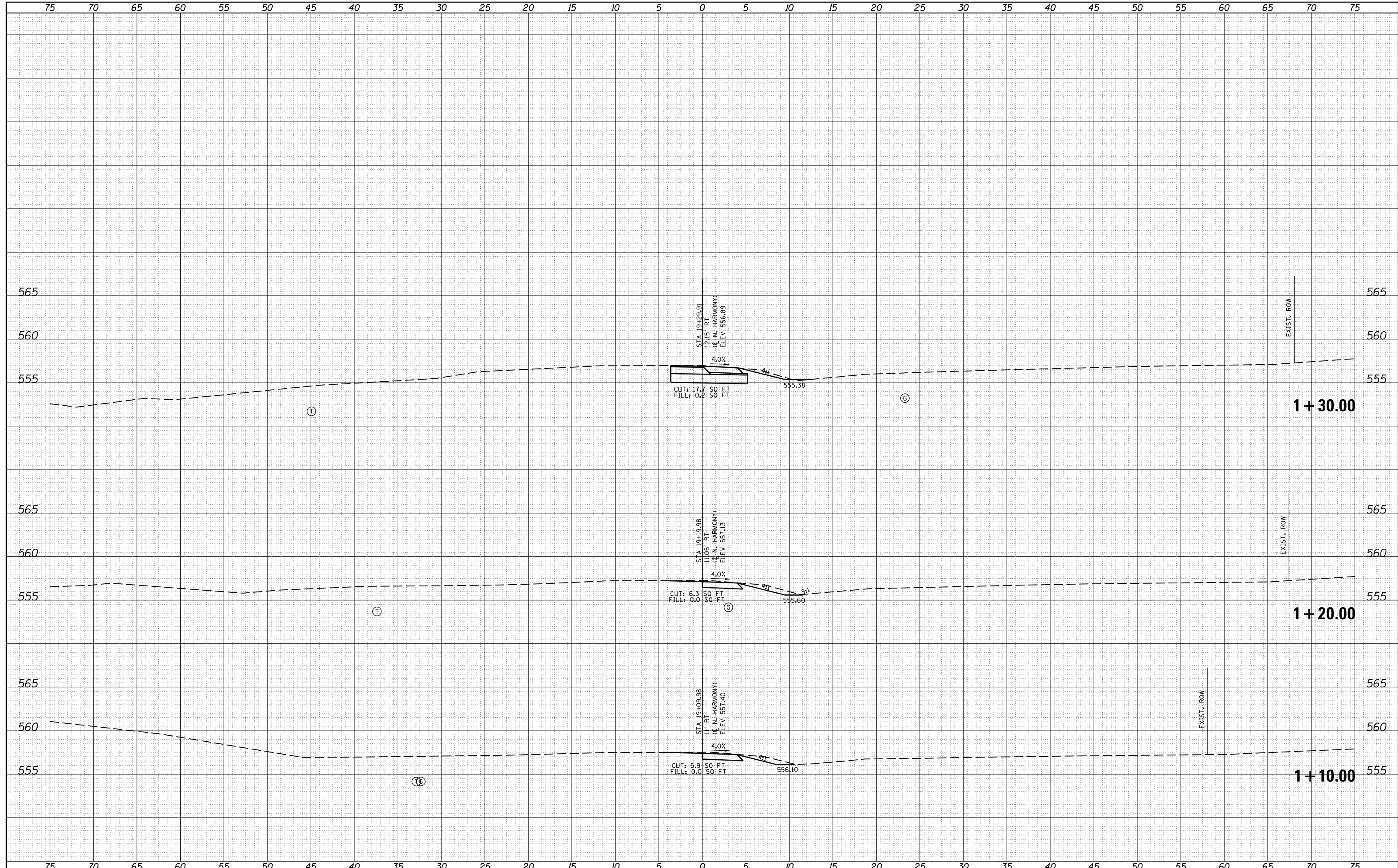
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - NW QUAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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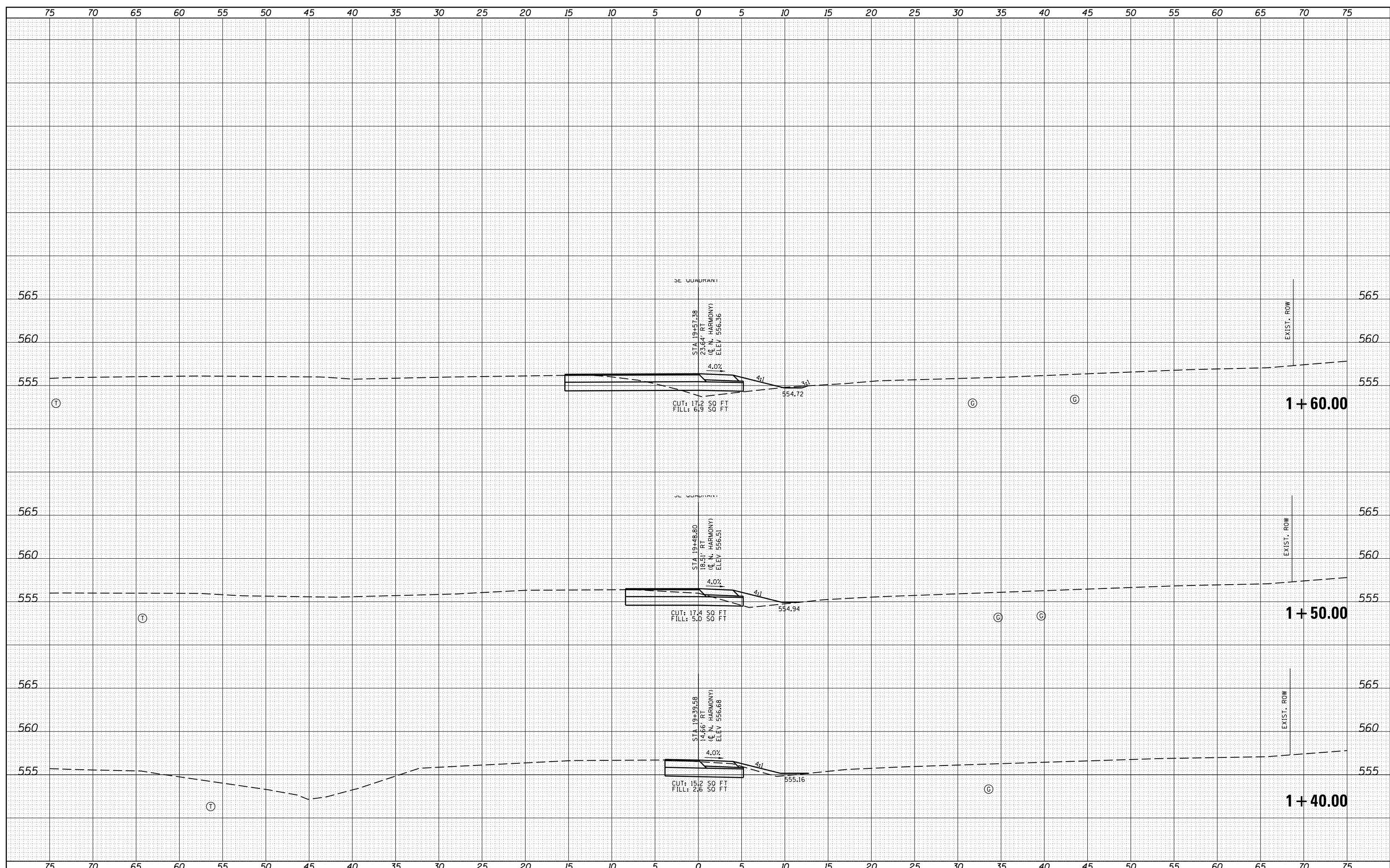
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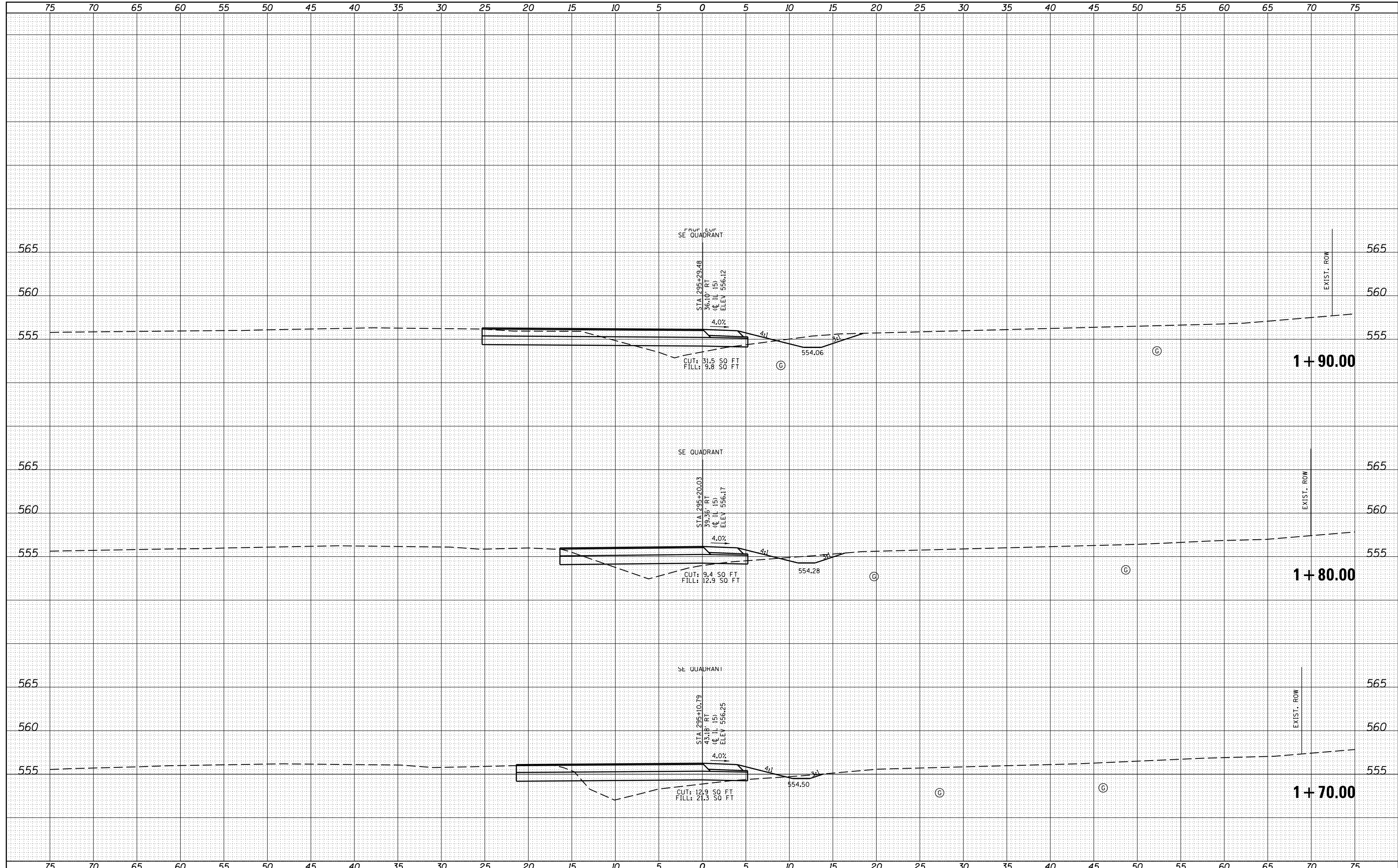
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - SE QUAD		F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 101	
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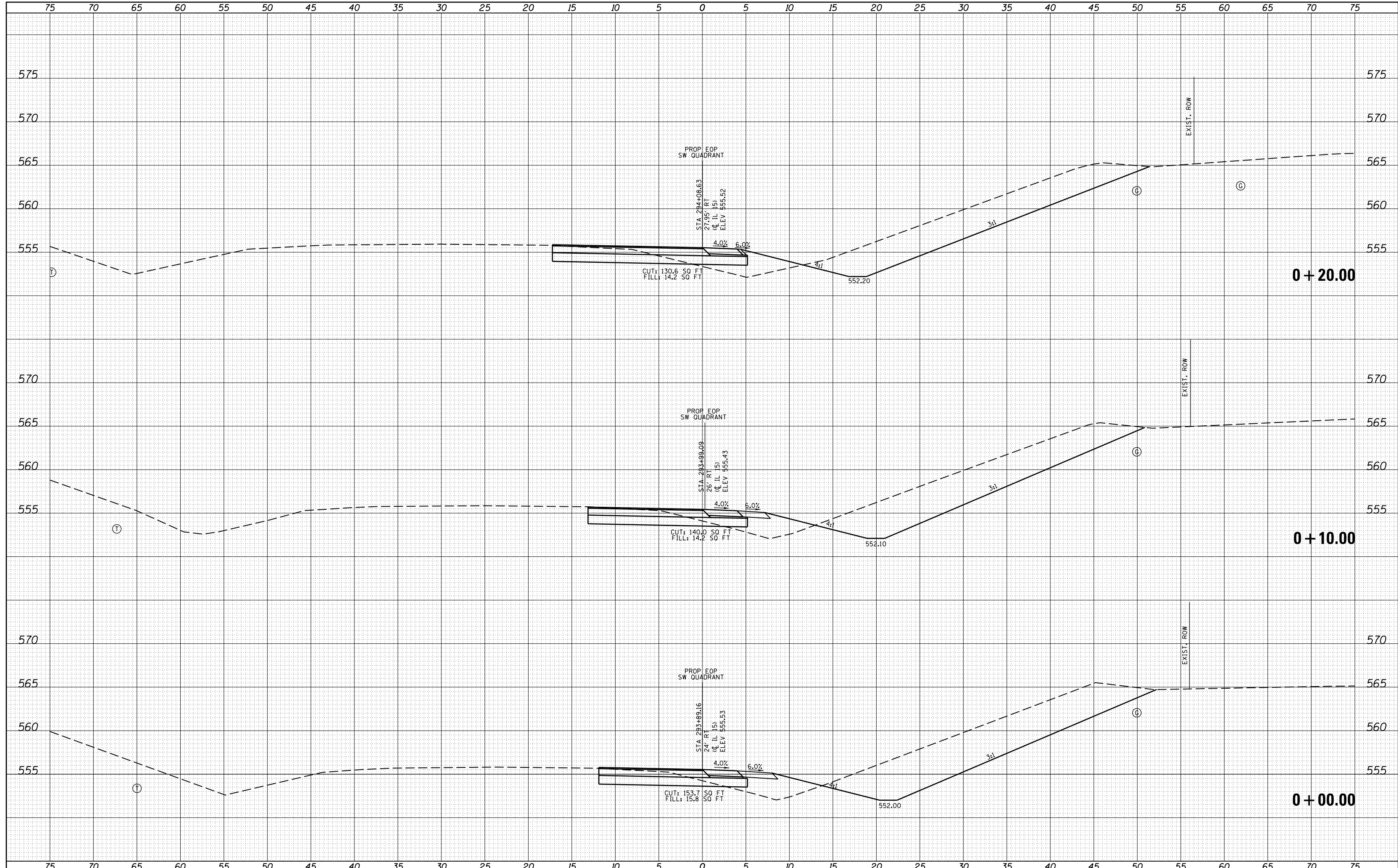
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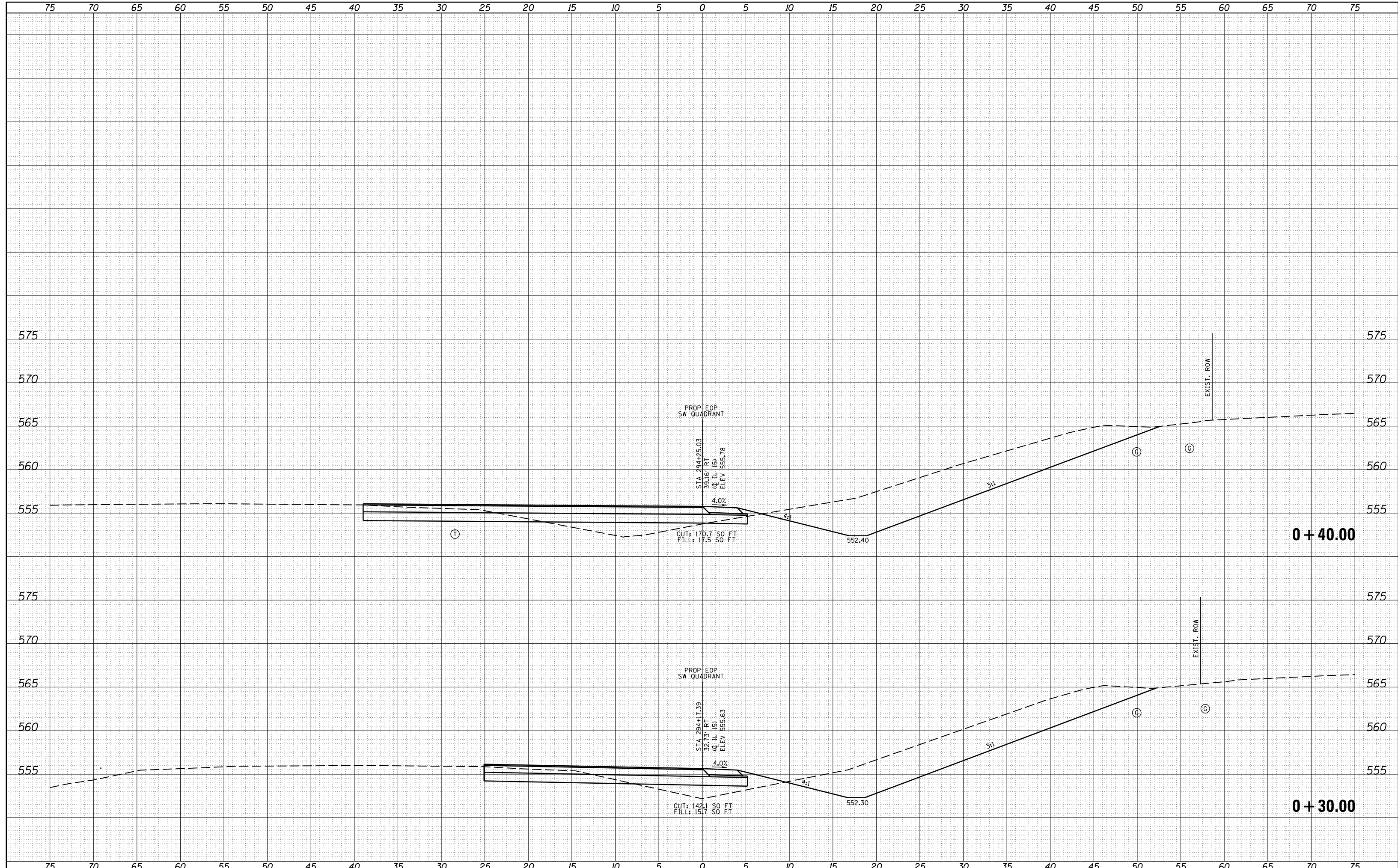
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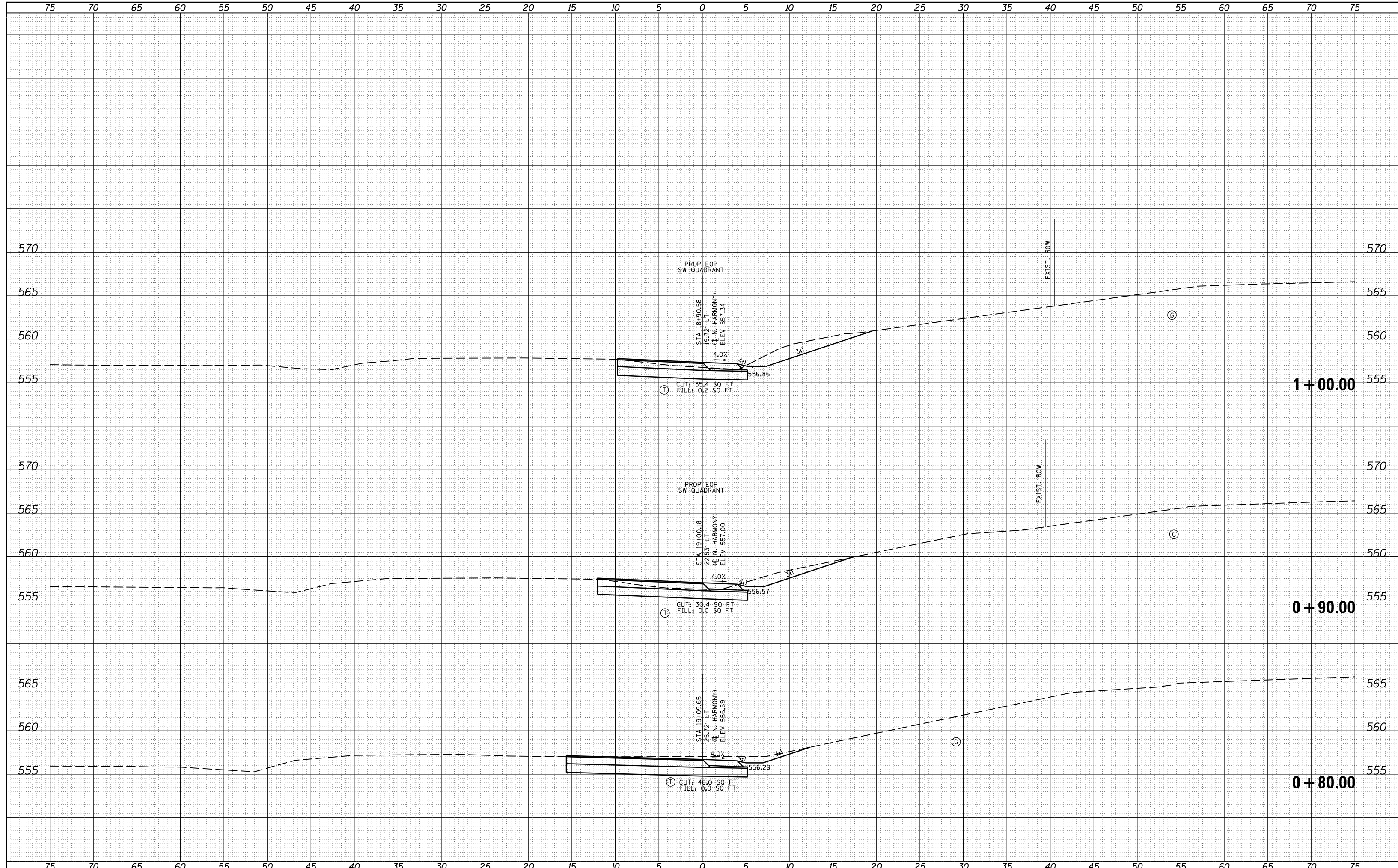
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FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - SW QUAD			F.A.P. RTE. 821	SECTION 16-2(N-1)	COUNTY JEFFERSON	TOTAL SHEETS 110	SHEET NO. 106
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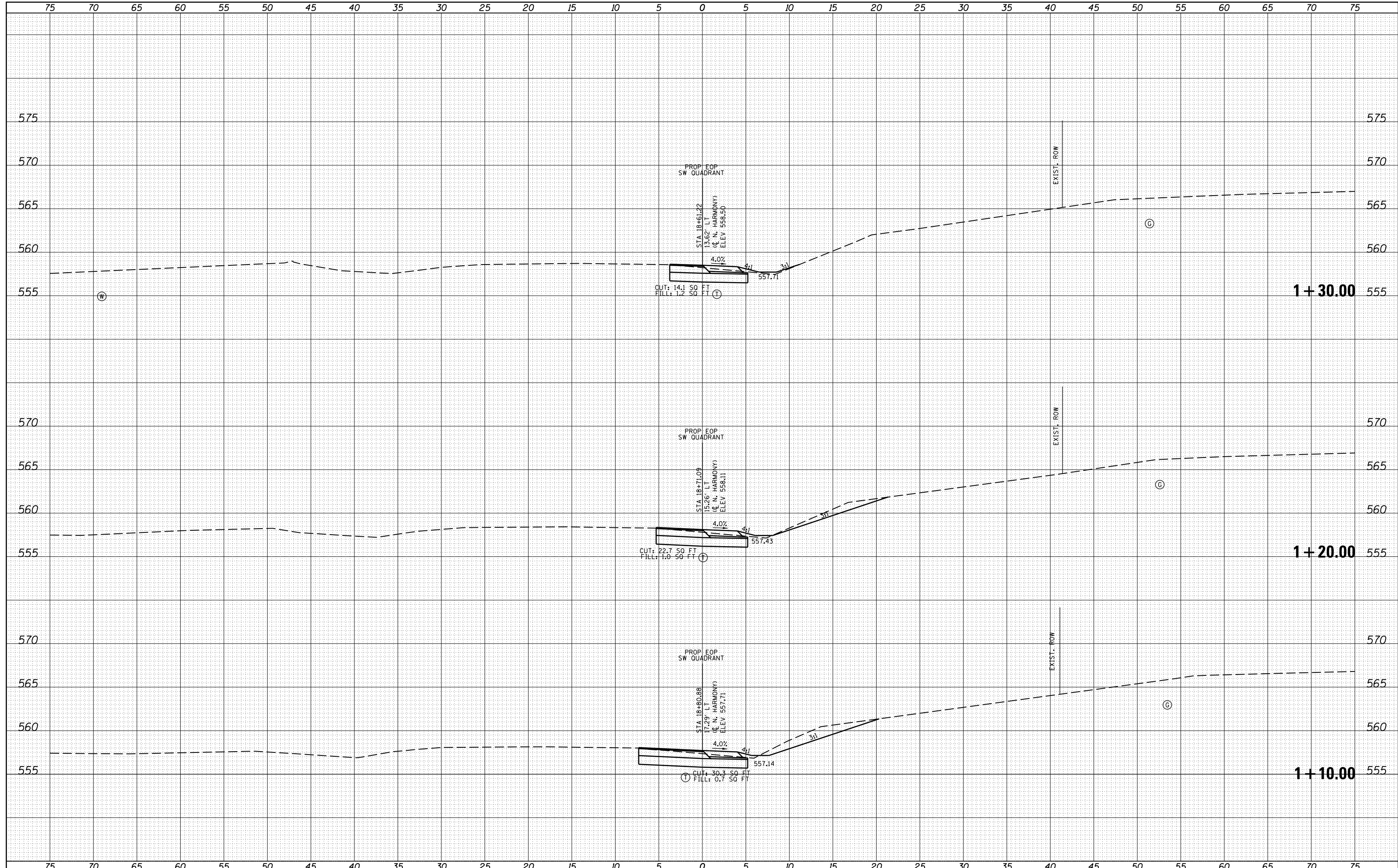
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CONTRACT NO. 78509	SCALE: SHEET OF SHEETS	STA. +80.00 TO STA. 1+00.00	[ILLINOIS] FED. AID PROJECT									
CONTRACT NO. 78509	SCALE: SHEET OF SHEETS	STA. +80.00 TO STA. 1+00.00	[ILLINOIS] FED. AID PROJECT									
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