

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	1
		ILLINOIS	CONTRACT NO. 78948	

D-99-043-22

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-7

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 885 (IL 146)
SECTION 110CR-1
PROJECT HBFP-WYEQ(674)
BOX CULVERT REPLACEMENT
JOHNSON COUNTY

TRAFFIC DATA

2021 ADT = 2700
WITH 4% TRUCKS
SPEED LIMIT = 55 MPH

PROPOSED PROJECT BEGINS
STA. 141 + 59

C-99-055-22

PROPOSED PROJECT ENDS
STA. 142 + 25

SN044-7100(PY)SN044-7057(E)
C PROP. CULVERT STA. 141+92
9'x8' PROP. PRECAST BOX CULVERT
W/C.I.P. APRON END SECTIONS
35° SKEW, 64'-8" END TO END

TOWNSHIP
COUNTY UNIT ROAD
DISTRICT

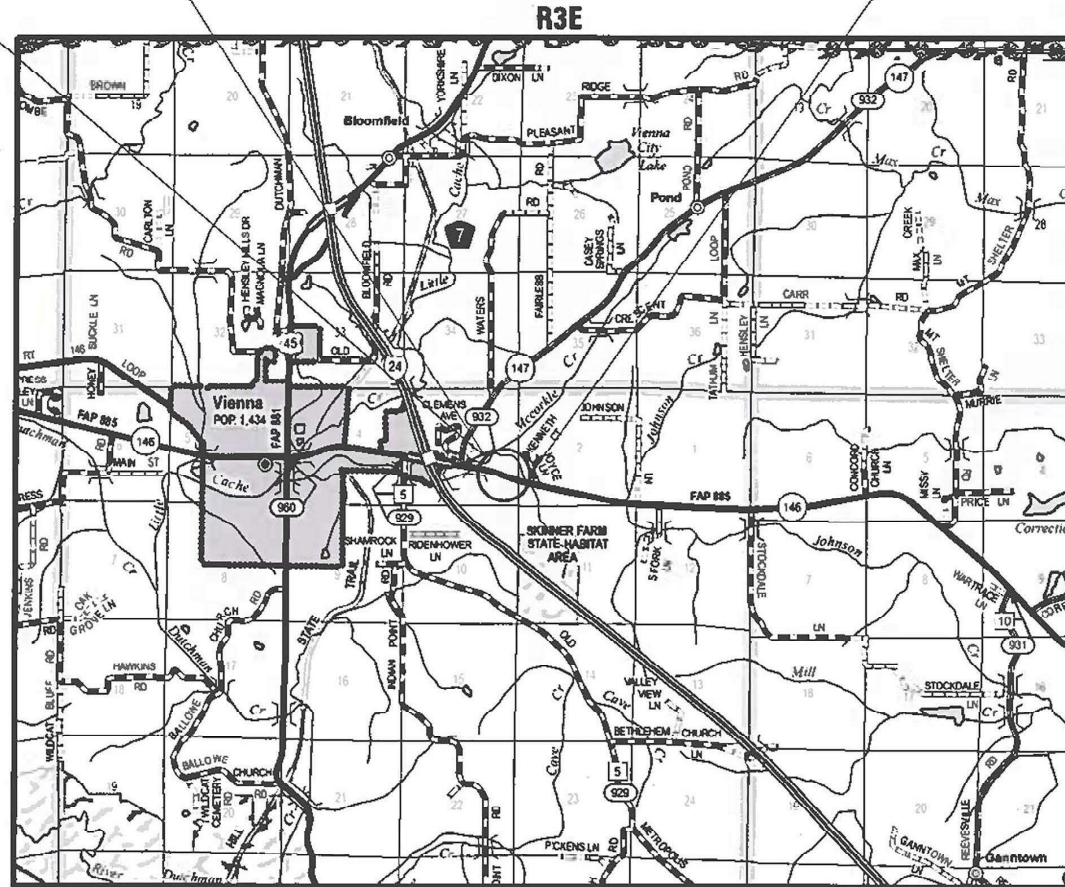
COORDINATE SYSTEM : ILLINOIS CORDINATE SYSTEM,
EAST ZONE

POSTED SPEED : 55 MPH

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

PROJECT ENGINEER: EHREN KIRBY
PROJECT DESIGNER: ZACH LOMAX

CONTRACT NO. 78948



GROSS LENGTH = 66.0 FT. = 0.0125 MILES
NET LENGTH = 66.0 FT. = 0.0125 MILES



LOCATION OF SECTION INDICATED THIS: - [Symbol]

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 4 2023
Kirk H. Brown
REGION FIVE ENGINEER

February 2, 2024
Scott A. Ets
ENGINEER OF DESIGN AND ENVIRONMENT

February 2, 2024
Stephen M. Faria
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES

COUNTY:	JOHNSON CO
ROUTE:	FAP 885
FUNDING:	80% FEDERAL 20% STATE
LOCATION:	RURAL
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	64
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	79
20200100	EARTH EXCAVATION	CU YD	495
20300100	CHANNEL EXCAVATION	CU YD	105
20400800	FURNISHED EXCAVATION	CU YD	845
20700220	POROUS GRANULAR EMBANKMENT	CU YD	586
25000200	SEEDING, CLASS 2	ACRE	0.29
25000350	SEEDING, CLASS 7	ACRE	0.29
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	27
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	27
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	27
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.6
25100630	EROSION CONTROL BLANKET	SQ YD	1,404
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	29

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	DRAWN -	REVISED -
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PLOT DATE = 10/20/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SHEET 4 OF 28 SHEETS STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	4
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES - CONT

COUNTY:	JOHNSON CO
ROUTE:	FAP 885
FUNDING:	80% FEDERAL 20% STATE
LOCATION:	RURAL
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	
28000400	PERIMETER EROSION BARRIER	FOOT	826
28100107	STONE RIPRAP, CLASS A4	SQ YD	44
28100109	STONE RIPRAP, CLASS A5	SQ YD	144
28200200	FILTER FABRIC	SQ YD	196
42000060	WELDED WIRE REINFORCEMENT	SQ YD	191
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	191
44000100	PAVEMENT REMOVAL	SQ YD	191
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	570
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	66
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,870
54003000	CONCRETE BOX CULVERTS	CU YD	40.4
54010908	PRECAST CONCRETE BOX CULVERTS 9' X 8'	FOOT	65
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	89

REV. - MS

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PLOT DATE = 10/20/2023	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALING SCALE SHEET 5 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	5
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES - CONT

COUNTY:	JOHNSON CO
ROUTE:	FAP 885
FUNDING:	80% FEDERAL 20% STATE
LOCATION:	RURAL
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	ROADWAY
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	358
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	31
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	539
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	10
67100100	MOBILIZATION	L SUM	1
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	3
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	792
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8

* SPECIALTY ITEM

REV. - MS

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PLOT DATE = 12/12/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALING SCALE SHEET 6 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	6
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES - CONT

COUNTY:	JOHNSON CO
ROUTE:	FAP 885
FUNDING:	80% FEDERAL 20% STATE
LOCATION:	RURAL
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	
*	86200300 UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
	X5810103 MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	89
	X7011800 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
	Z0016702 DETOUR SIGNING	L SUM	1
*	Z0054406 ROCK FILL - FOUNDATION	CU YD	140

* SPECIALTY ITEM

REV. - MS

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SCALING SCALE SHEET 7 OF 28 SHEETS STA. TO STA.				CONTRACT NO. 78948 ILLINOIS FED. AID PROJECT					

TREE REMOVAL SCHEDULE

LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
	UNIT	UNIT
IL 146 - SN 044-7057 (E) / SN 044-7100 (P)		
NORTH END OF STRUCTURE		
1 - 8" DIAMETER TREE	8	
3 - 10" DIAMETER TREE	30	
2 - 13" DIAMETER TREES	26	
1- 16" DIAMETER TREE		16
1 - 17" DIAMETER TREE		17
1- 19" DIAMETER TREE		19
1- 27" DIAMETER TREE		27
PROJECT TOTALS	64	79

PAVEMENT MARKING SCHEDULE

START STATION	END STATION	NOTES	PAINT PAVEMENT MARKING			
			LINE - 4" WHITE		LINE - 4" YELLOW	
			SOLID	SOLID LT	SKIP-DASH	SOLID RT
			FT	FT	FT	FT
IL 146 - SN 044-7057 (E) / SN 044-7100 (P)						
141+59.30	142+24.92	CENTERLINE		66	66	
140+24.35	143+61.07	LEFT EDGELINE	337			
140+38.68	143+62.09	RIGHT EDGELINE	323			
PROJECT TOTALS			792			

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION	REMARKS
						EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
STA. TO STA.	CU YD	CU YD	%	CU YD	CU YD	CU YD	CU YD	CU YD	
IL 146-SN 044-7057(E)/SN 044-7100(P)									
141+52.80 TO 142+30.60	420.0	105							EARTH EXCAVATION FOR BOX & P.G.E
140+40.00 TO 144+10.00	75.0		21.0%	60.0	905	845.0	0	845.0	
PROJECT TOTALS	495.0	105						845.0	

* EARTH EXCAVATION QUANTITIES CALCULATED FOR THE REMOVAL OF THE EXISTING BOX, P.G.E, CHANNEL EXCAVATION ARE NOT USED IN THE BALANCING OF THE TOTAL EARTHWORK DUE TO THE UNCERTAINTY OF SUITABLE MATERIAL.

PAVEMENT SCHEDULE

LOCATION STATION TO STATION	LENGTH	ROADWAY WIDTH	AREA	PAVEMENT REMOVAL	PORTLAND CEMENT CONCRETE PAVEMENT 10"	WELDED WIRE REINFORCEMENT	REMARKS
	FOR INFORM. PURPOSES ONLY						
	FT	FT	SQ FT				
IL 146 - SN 044-7057(E) / SN 044-7100(P)							
STA 141+59.00 TO STA 142+25.00	66	26	1716.0	191	191	191	
PROJECT TOTALS				191	191	191	

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PLOT DATE = 10/20/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES

SCALE NO SCALE SHEET 8 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	8
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

SHOULDER SCHEDULE

LOCATION							LENGTH	PROPOSED SHOULDER WIDTH	PCC SHOULDERS	REMARKS
							FT	FT	SQ YD	
IL 146 - SN 044-7057(E) / SN 044-7100 (P)										
STA	140+24.00	LT	TO	STA	143+61.00	LT	337.0	7.75	291	
STA	140+38.00	RT	TO	STA	143+62.00	RT	324.0	7.75	279	
PROJECT TOTALS									570	

GUARDRAIL SCHEDULE

LOCATION (IL 146)	STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS	STRONG POST GUARDRAIL ATTACHED TO CULVERT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
	FOOT	FOOT	EACH	FOOT	EACH	EACH
SN 044-7057(E)/SN 044-7100(P)						
STA 140+44 LT TO STA 143+44 LT (S)	185.4	14.6	2	282	2	4
STA 140+54 RT TO STA 143+4.5 RT (N)	172.0	15.5	2	257	2	4
PROJECT TOTALS	358	31	4	539	4	8

SEE GUARDRAIL DETAIL SHEETS FOR ADDITIONAL INFORMATION.

SEEDING SCHEDULE

LOCATION (IL 34)	CLASS 2 SEEDING	NITROGEN FERTILIZER	PHOSPHORUS FERTILIZER	POTASSIUM FERTILIZER	AG GROUND LIMESTONE	EROSION CONTROL BLANKET	CLASS 7 SEEDING	TEMP EROSION CONTROL SEEDING	PERIMETER EROSION CONTROL BARRIER
	ACRE	POUND	POUND	POUND	TON	SQ YD	ACRE	POUND	FOOT
SN 044-7057(E)/SN 044-7100(P)									
North/Downstream End	0.13	12	12	12	0.3	629.5	0.13	13	399
South/Upstream End	0.16	15	15	15	0.3	774.5	0.16	16	427
PROJECT TOTALS	0.29	27	27	27	0.6	1404	0.29	29	826

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

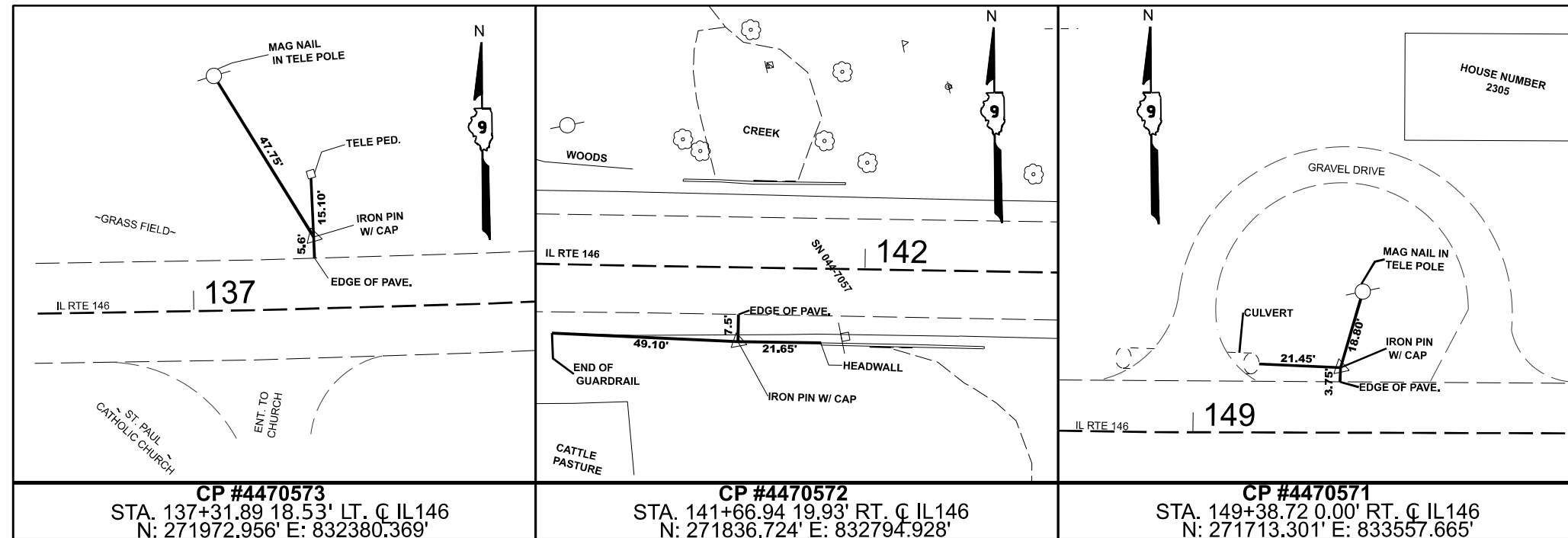
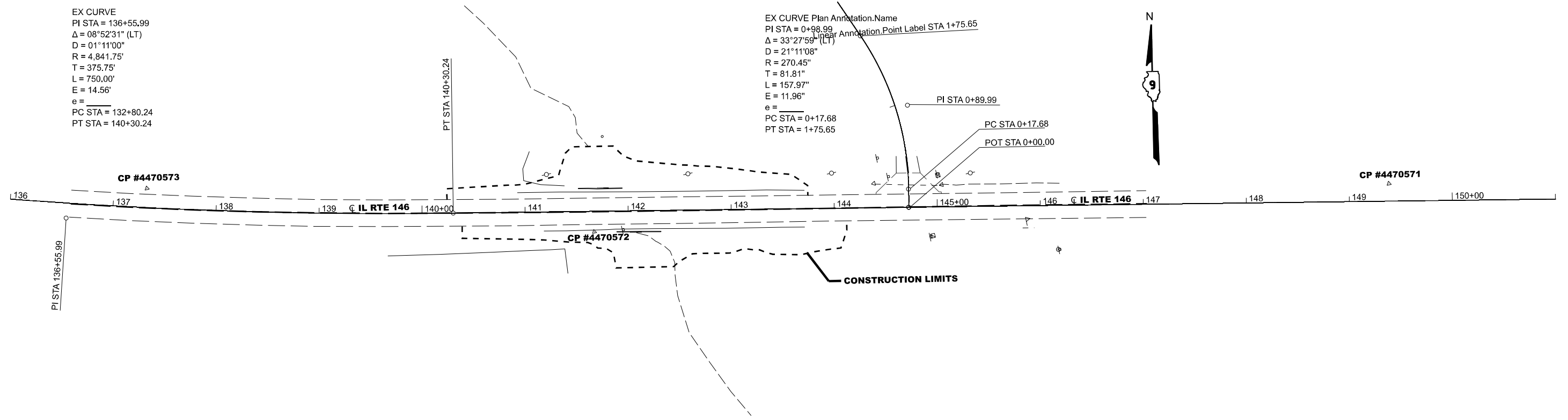
SCHEDULES

SCALE NO SCALE SHEET 9 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 885	SECTION 110CR-1	COUNTY JOHNSON	TOTAL SHEETS 28	SHEET NO. 9
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

EX CURVE
 PI STA = 136+55.99
 $\Delta = 08^{\circ}52'31''$ (LT)
 $D = 01^{\circ}11'00''$
 $R = 4,841.75'$
 $T = 375.75'$
 $L = 750.00'$
 $E = 14.56'$
 $e =$
 PC STA = 132+80.24
 PT STA = 140+30.24

EX CURVE Plan Annotation Name
 PI STA = 0+98.99
 $\Delta = 33^{\circ}27'59''$ (LT)
 $D = 21^{\circ}11'08''$
 $R = 270.45'$
 $T = 81.81'$
 $L = 157.97'$
 $E = 11.96'$
 $e =$
 PC STA = 0+17.68
 PT STA = 1+75.65



MODEL: IL 146 - Plan 1 (Sheet)
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PLOT DATE = 10/10/2023	CHECKED -	REVISED -
	DATE -	REVISED -

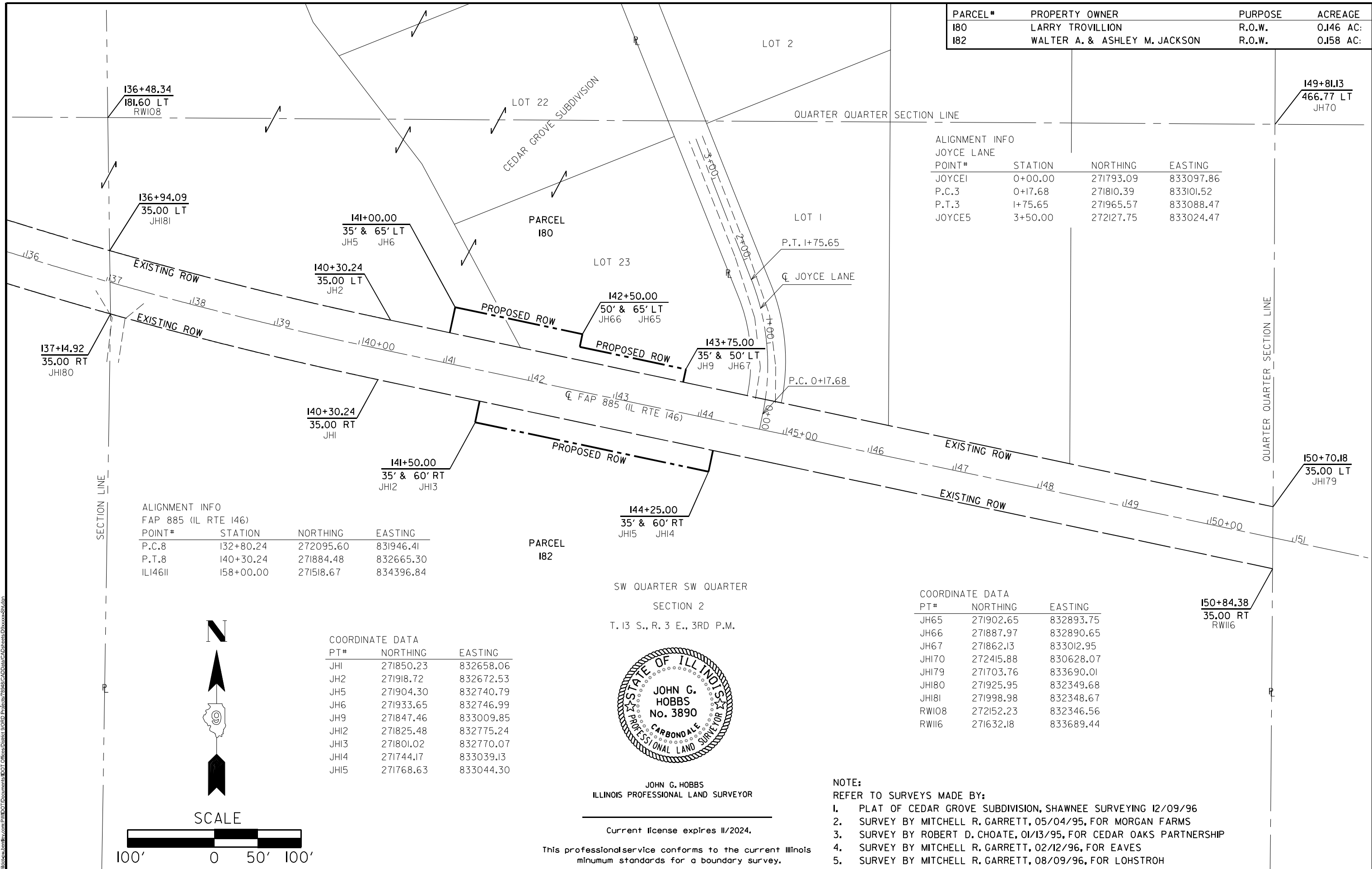
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1"=50' SHEET 10 OF 28 SHEETS STA. 136+00.00 R2 TO STA. 151+00.00 R2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	10
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

PARCEL #	PROPERTY OWNER	PURPOSE	ACREAGE
180	LARRY TROVILLION	R.O.W.	0.146 AC.
182	WALTER A. & ASHLEY M. JACKSON	R.O.W.	0.158 AC.



ALIGNMENT INFO
JOYCE LANE

POINT#	STATION	NORTHING	EASTING
JOYCE1	0+00.00	271793.09	833097.86
P.C.3	0+17.68	271810.39	833101.52
P.T.3	1+75.65	271965.57	833088.47
JOYCE5	3+50.00	272127.75	833024.47

ALIGNMENT INFO
FAP 885 (IL RTE 146)

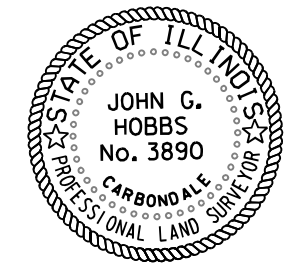
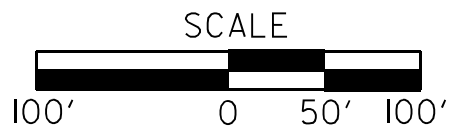
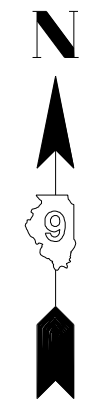
POINT#	STATION	NORTHING	EASTING
P.C.8	132+80.24	272095.60	831946.41
P.T.8	140+30.24	271884.48	832665.30
ILI46II	158+00.00	271518.67	834396.84

COORDINATE DATA

P.T.#	NORTHING	EASTING
JH1	271850.23	832658.06
JH2	271918.72	832672.53
JH5	271904.30	832740.79
JH6	271933.65	832746.99
JH9	271847.46	833009.85
JH12	271825.48	832775.24
JH13	271801.02	832770.07
JH14	271744.17	833039.13
JH15	271768.63	833044.30

COORDINATE DATA

PT#	NORTHING	EASTING
JH65	271902.65	832893.75
JH66	271887.97	832890.65
JH67	271862.13	833012.95
JH170	272415.88	830628.07
JH179	271703.76	833690.01
JH180	271925.95	832349.68
JH181	271998.98	832348.67
RWI08	272152.23	832346.56
RWI16	271632.18	833689.44



JOHN G. HOBBS
ILLINOIS PROFESSIONAL LAND SURVEYOR

Current license expires 11/2024.

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

NOTE:

- REFER TO SURVEYS MADE BY:
1. PLAT OF CEDAR GROVE SUBDIVISION, SHAWNEE SURVEYING 12/09/96
 2. SURVEY BY MITCHELL R. GARRETT, 05/04/95, FOR MORGAN FARMS
 3. SURVEY BY ROBERT D. CHOATE, 01/13/95, FOR CEDAR OAKS PARTNERSHIP
 4. SURVEY BY MITCHELL R. GARRETT, 02/12/96, FOR EAVES
 5. SURVEY BY MITCHELL R. GARRETT, 08/09/96, FOR LOHSTROH

MODEL: Proposed ROW Plan (Sheet)
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PLOT DATE = 12/13/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

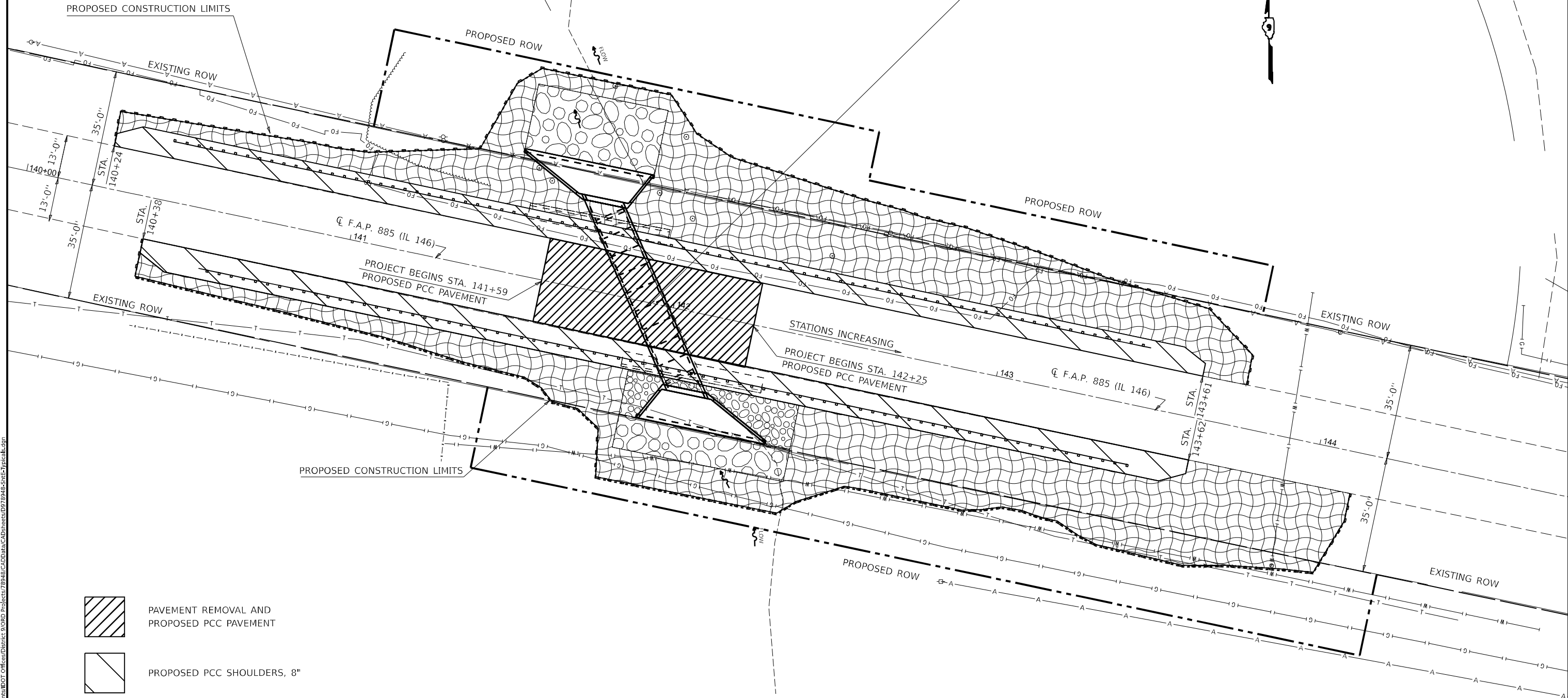
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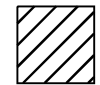
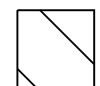
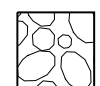
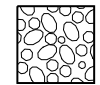


SCALE	SHEET 11	OF 28 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	26	11
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

CL PROP. SN 044-7100 (35° SKEW)
 9' X 8' PRECAST BOX CULVERT
 STA 141+92
 53'-0" @ RT. ANGLES OUT-TO-OUT, ASTM C 1577
 64' 8" LONG CL OF PROPOSED CULVERT, OUT-TO-OUT

CL EXIST. SN 044-7057 (35° SKEW)
 9' X 8' BOX CULVERT
 STA 141+92



-  PAVEMENT REMOVAL AND PROPOSED PCC PAVEMENT
-  PROPOSED PCC SHOULDERS, 8"
-  PROPOSED RIPRAP, CLASS A5
-  PROPOSED RIPRAP, CLASS A4
-  EROSION CONTROL BLANKET & SEEDING, CLASS 2
-  PERIMETER EROSION BARRIER

MODEL: General Plan [Sheet]
 FILE NAME: \\p010000000000\p010000000000\DOT\Office\District 9\ORP\Projects\78948\CADD\Drawings\0978948-SN044-7100-1.dwg

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PLOT DATE = 12/14/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN/EROSION CONTROL SN 044-7100(P)			
SCALE/NO SCALE	SHEET 13	OF 28 SHEETS	STA. TO STA.

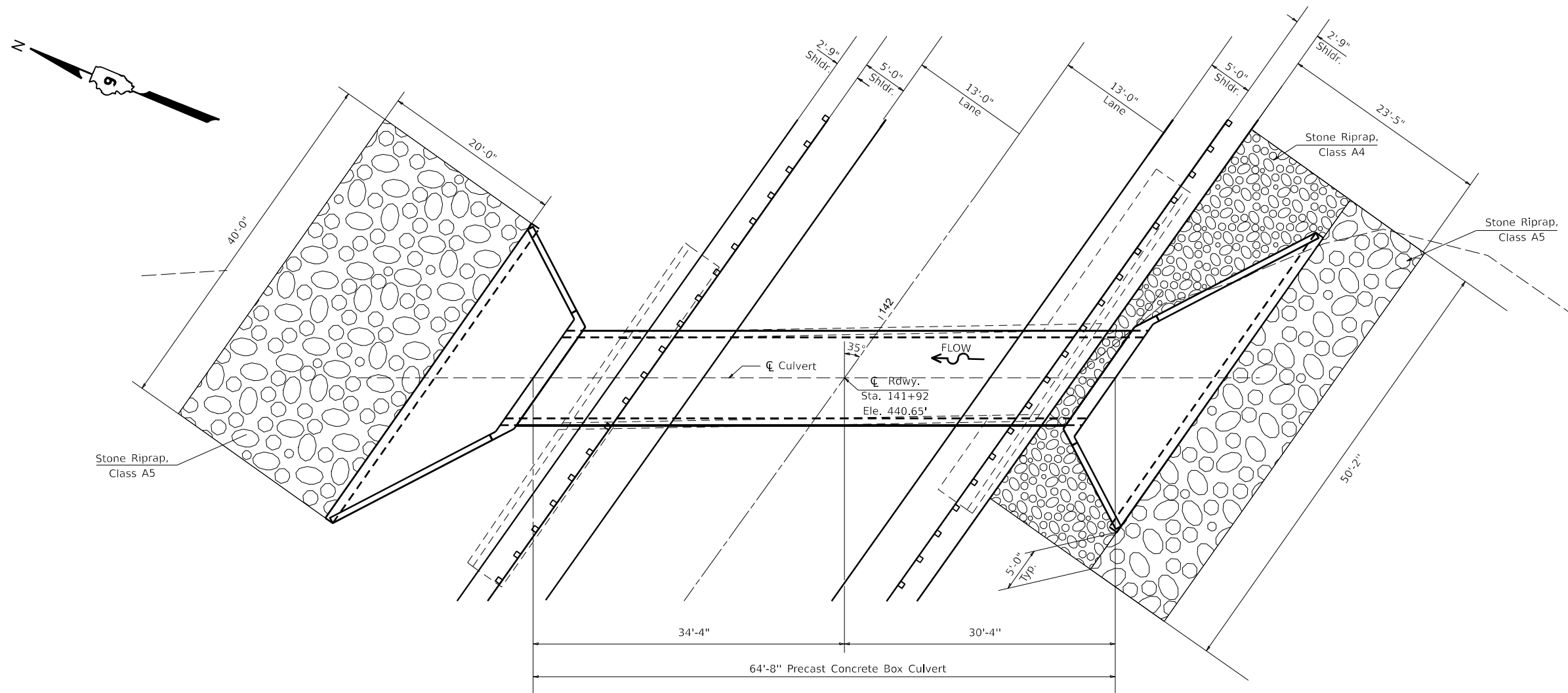
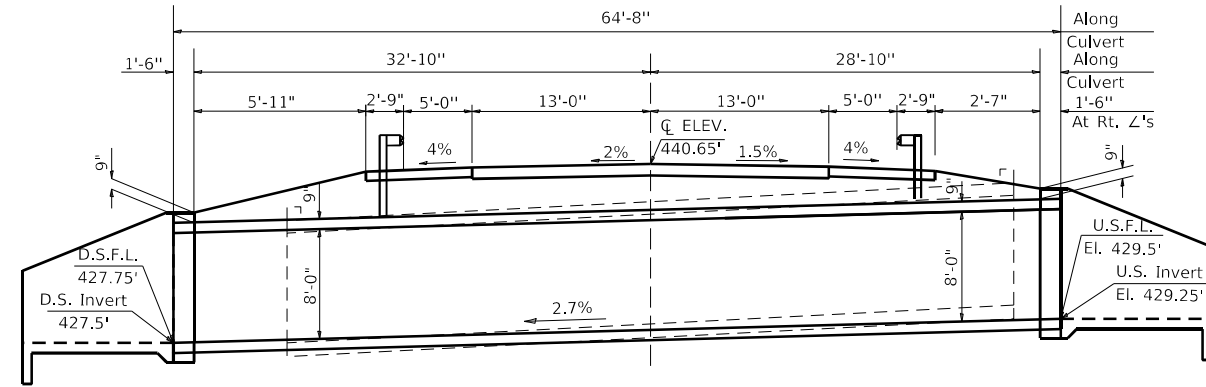
F.A.P. RTE. 885	SECTION 110CR-1	COUNTY JOHNSON	TOTAL SHEETS 26	SHEET NO. 13
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

Benchmark GPS Control point 04470572, permanent survey marker; Elevation 439.938'.

Existing Structure: Structure number 044-7057, built in 1928 under SBI Route 146, Section 110, at Station 141+92. The existing structure is a single barrel cast in place reinforced concrete box culvert, 9'-0" W x 8'-0" H x 53'-0" L with a skew of 35°.

Traffic to be detoured during construction of the Precast Concrete Box culvert. Traffic will be on culvert during construction of end sections.

No salvage



MODEL: General Plan and Elevation (Sheet)
 FILE NAME: P:\Illinois\Projects\78948\DOT\Office\District 9\CRD\Projects\78948\CAD\Drawings\Design\0978948-Construction Limits.dwg

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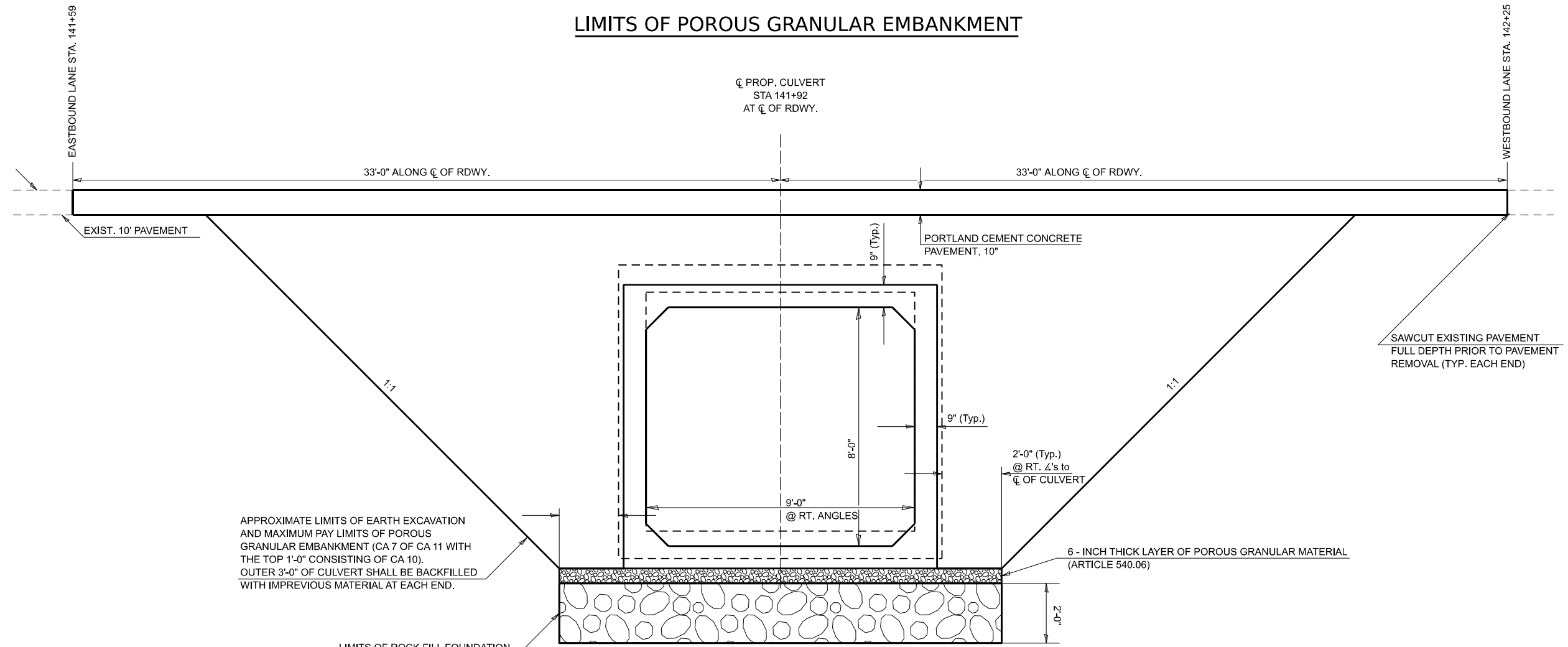
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL PLAN AND ELEVATION

SCALING SCALE SHEET 14 OF 28 SHEETS STA. TO STA.

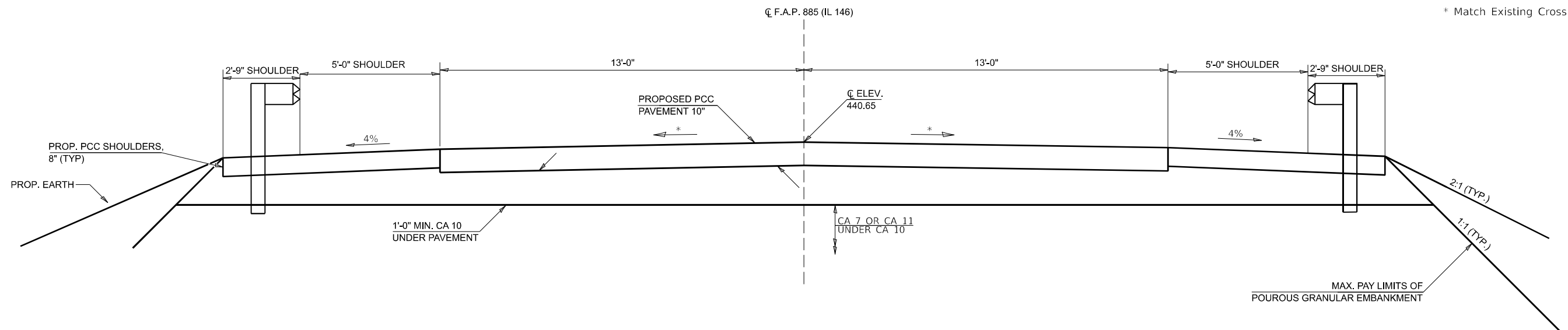
F.A.P. RTE. 885	SECTION 110CR-1	COUNTY JOHNSON	TOTAL SHEETS 28	SHEET NO. 14
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

LIMITS OF POROUS GRANULAR EMBANKMENT



SECTION WITHIN PAVEMENT REMOVAL

THE COST OF THE REMOVAL OF EXISTING PAVEMENT MARKINGS, INCLUDING RAISED REFLECTIVE PAVEMENT MARKERS IS INCLUDED IN THE COST OF PAVEMENT REMOVAL.



MODEL: Limits of Porous Granular Embankment (Sheet)
FILE NAME: P:\Illinois\Projects\78948\110CR1\110CR1\DOT\Office\District 9\90RD Projects\78948\110CR1\CADD\Sub\CA0\Sheets\0978948-SHE-110CR1.dgn

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

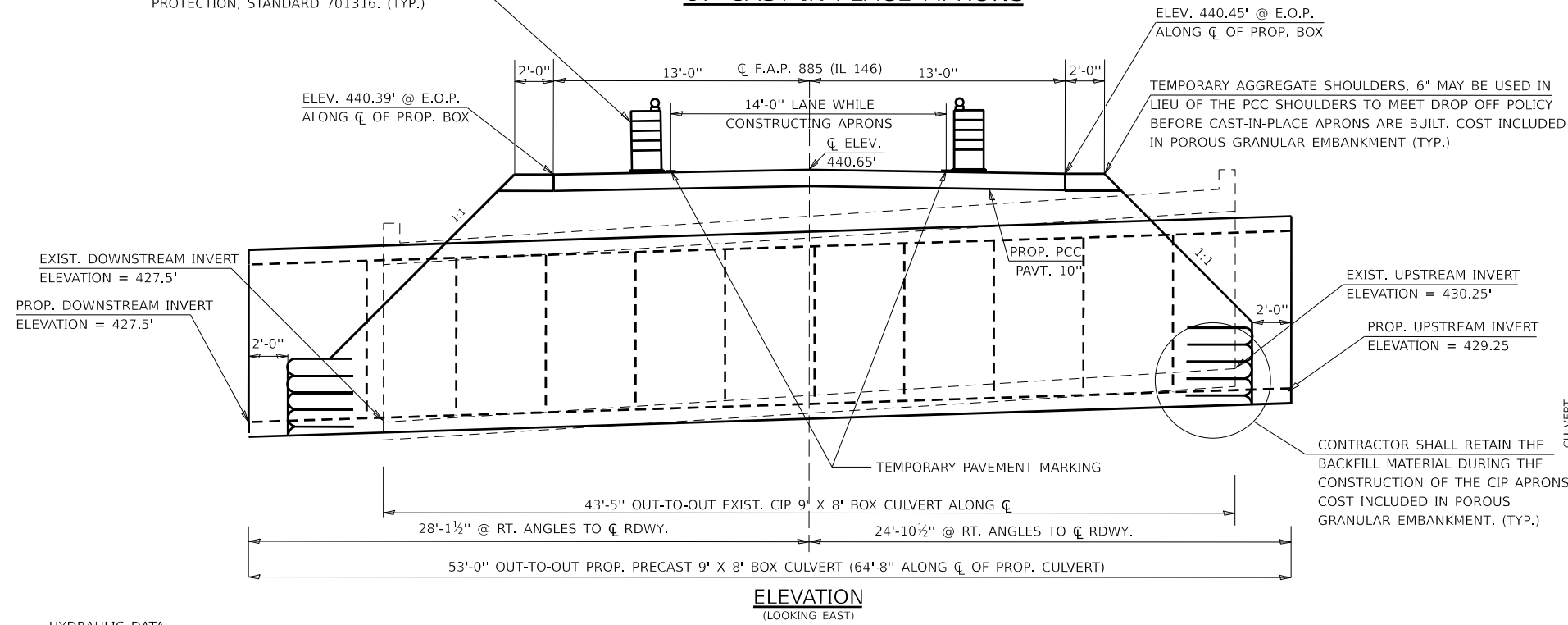
**LIMITS OF POROUS GRANULAR EMBANKMENT AND
SECTION WITHIN PAVEMENT REMOVAL SN 044-7100 (P)**

SCALE NO SCALE SHEET 15 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 885	SECTION 110CR-1	COUNTY	TOTAL SHEETS 28	SHEET NO. 15
CONTRACT NO. 78948			ILLINOIS FED. AID PROJECT	

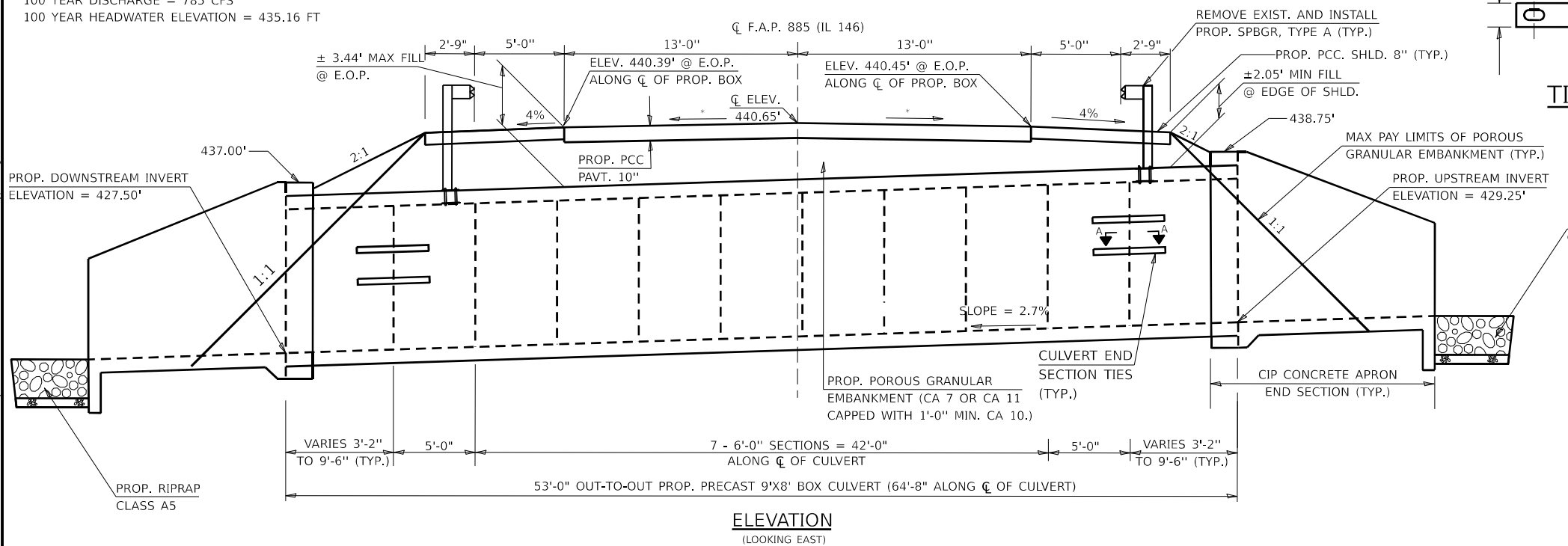
TEMPORARY DRUMS OR BARRICADES DURING CONSTRUCTION OF CIP APRONS. COST INCLUDED IN THE TRAFFIC CONTROL AND PROTECTION, STANDARD 701316. (TYP.)

TEMPORARY SECTION PRIOR TO CONSTRUCTION OF CAST-IN-PLACE APRONS



HYDRAULIC DATA
 DRAINAGE AREA = 0.35 SQ MI
 DESIGN WATERWAY OPENING = 72 SQ FT
 DESIGN DISCHARGE = 673 CFS
 DESIGN HEADWATER ELEVATION = 434.57 FT
 100 YEAR DISCHARGE = 785 CFS
 100 YEAR HEADWATER ELEVATION = 435.16 FT

FINAL SECTION AFTER CONSTRUCTION OF CAST-IN-PLACE APRONS



PRECAST BOX CULVERT SCHEDULE (ASTM C 1577)						
STATION	SIZE	SKEW	DESIGN FILL (FT.)		PGE BACKFILL REQUIRED	
			MINIMUM	MAXIMUM		
141+59 TO 142+25	9' X 8'	35°	±2.05'	±3.44'	586 CU YD	

GENERAL NOTES

DRAIN HOLES SHALL BE PROVIDED ON EXTERIOR CULVERT WALLS FOR EACH PRECAST BOX SEGMENT WITH A CLEAR RISE GREATER THAN 3 FT. THE DRAIN HOLE SHALL BE LOCATED WITHIN 1/3 OF THE CLEAR RISE OF THE BOX CULVERT, SHALL NOT INTERCEPT THE HAUNCH, AND SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS.

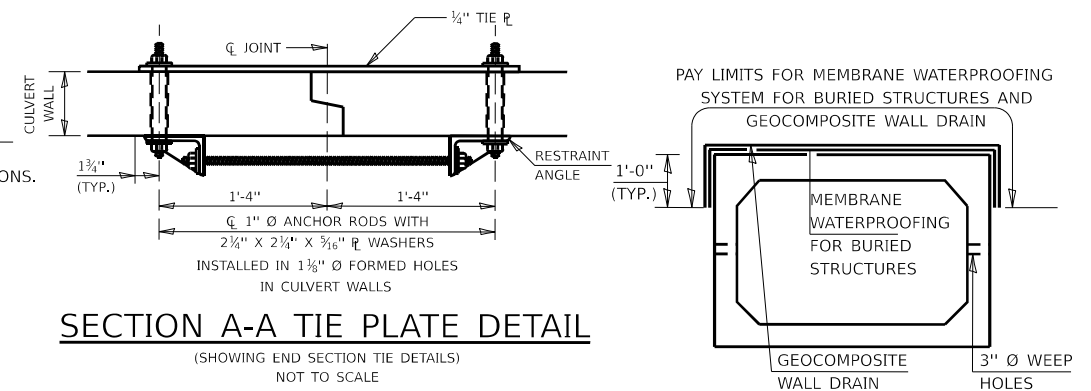
THE 6 IN. THICK LAYER OF POROUS GRANULAR MATERIAL REQUIRED FOR THE PRECAST CONCRETE BOX CULVERT PER ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS SHALL ALSO APPLY TO THE CAST-IN-PLACE END SECTIONS. COST OF THE POROUS GRANULAR MATERIAL WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE OF THE WORK FOR WHICH IT IS REQUIRED.

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.

THE REMOVAL OF THE EXISTING BOX CULVERT IS TO BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES.

PRECAST CONCRETE BOX CULVERTS AND BOX CULVERT END SECTIONS SHALL BE BACKFILLED WITH POROUS GRANULAR EMBANKMENT IN THE REQUIRED EXCAVATION AREAS ON THE SIDES OF THE BOX CULVERT FROM THE TOP OF THE BOX CULVERT TO THE BOTTOM OF THE BOX CULVERT. THIS AREA OF PGE IS INCLUDED IN THE POROUS GRANULAR EMBANKMENT PAY ITEM.

THE LAST TWO PRECAST BARREL SECTIONS AT EACH END SHALL BE TIED TOGETHER USING CULVERT TIES AS SHOWN ON CULVERT TIE DETAILS SHEET. COST INCLUDED IN PRECAST CONCRETE BOX CULVERTS OF THE SIZE SPECIFIED IN THE DETAILS.

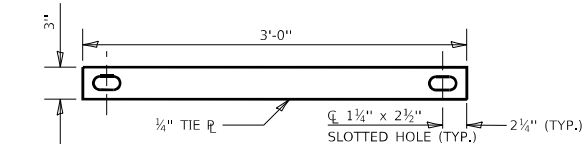


SECTION A-A TIE PLATE DETAIL
(SHOWING END SECTION TIE DETAILS) NOT TO SCALE

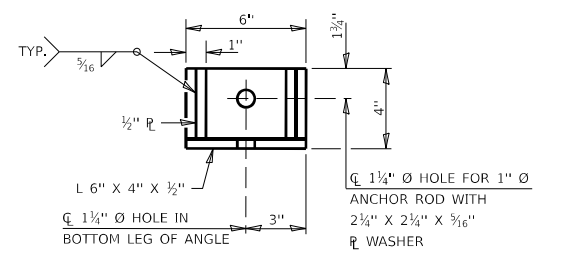
PRECAST CONCRETE BOX CULVERT

NOTE: GEOTEXTILE WALL DRAIN SHALL BE ACCORDING TO SECTION 591 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT CONCRETE NAILS SHALL NOT BE USED IN AREAS WHERE IT OVERLAPS MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES.

TIE PLATE DETAIL



NOT TO SCALE



RESTRAINT ANGLE DETAIL
NOT TO SCALE

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
REMOVAL OF EXISTING STRUCTURES	EACH	1
GEOTEXTILE WALL DRAIN	SQ YD	89
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	89
REINFORCEMENT BARS, EPOXY COATED	POUND	2,870
CONCRETE BOX CULVERTS	CU YD	37.7
PRECAST CONCRETE BOX CULVERTS 9' X 8'	FOOT	65
STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	31

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

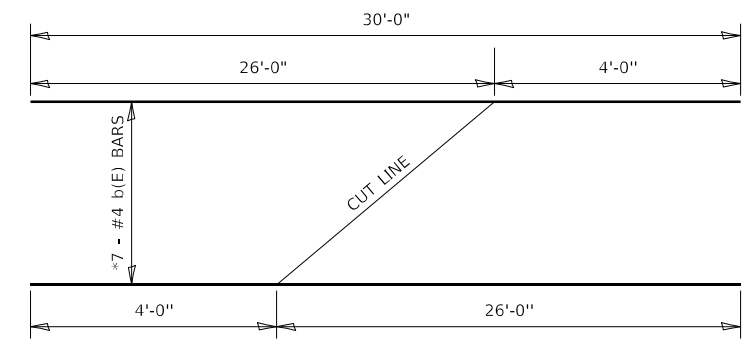
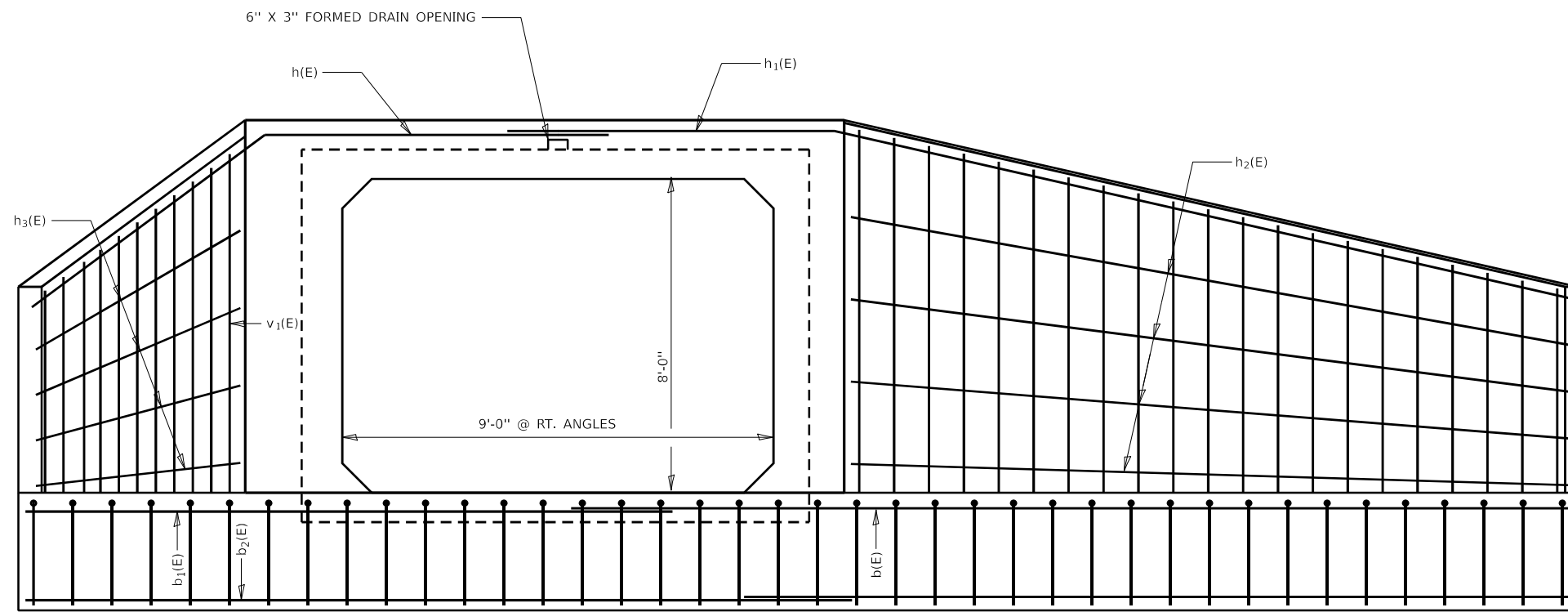
TEMPORARY AND FINAL END SECTION
SN 044-7100 (P)

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	DATE -	REVISED -

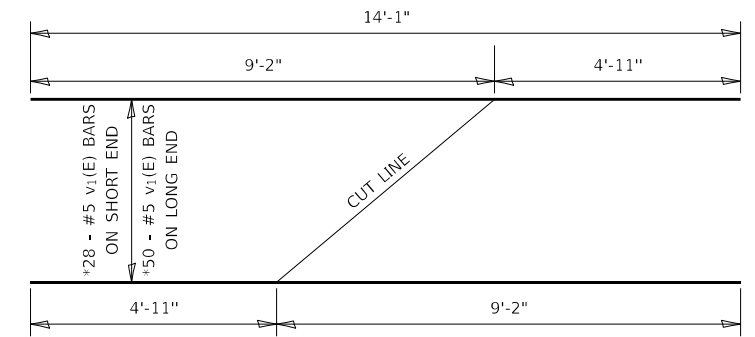
SCALING SCALE SHEET 16 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 885	SECTION 110CR-1	COUNTY JOHNSON	TOTAL SHEETS 28	SHEET NO. 16
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

MODEL: TEMPORARY AND FINAL SECTIONS-1 (Sheet) FILE NAME: p:\projects\14159-14225\110CR-1\Documents\DOT Office\District 9\BDD Projects\78948\CADD\Drawings\CAD\Sheets\0978948-SN044-7100.dgn

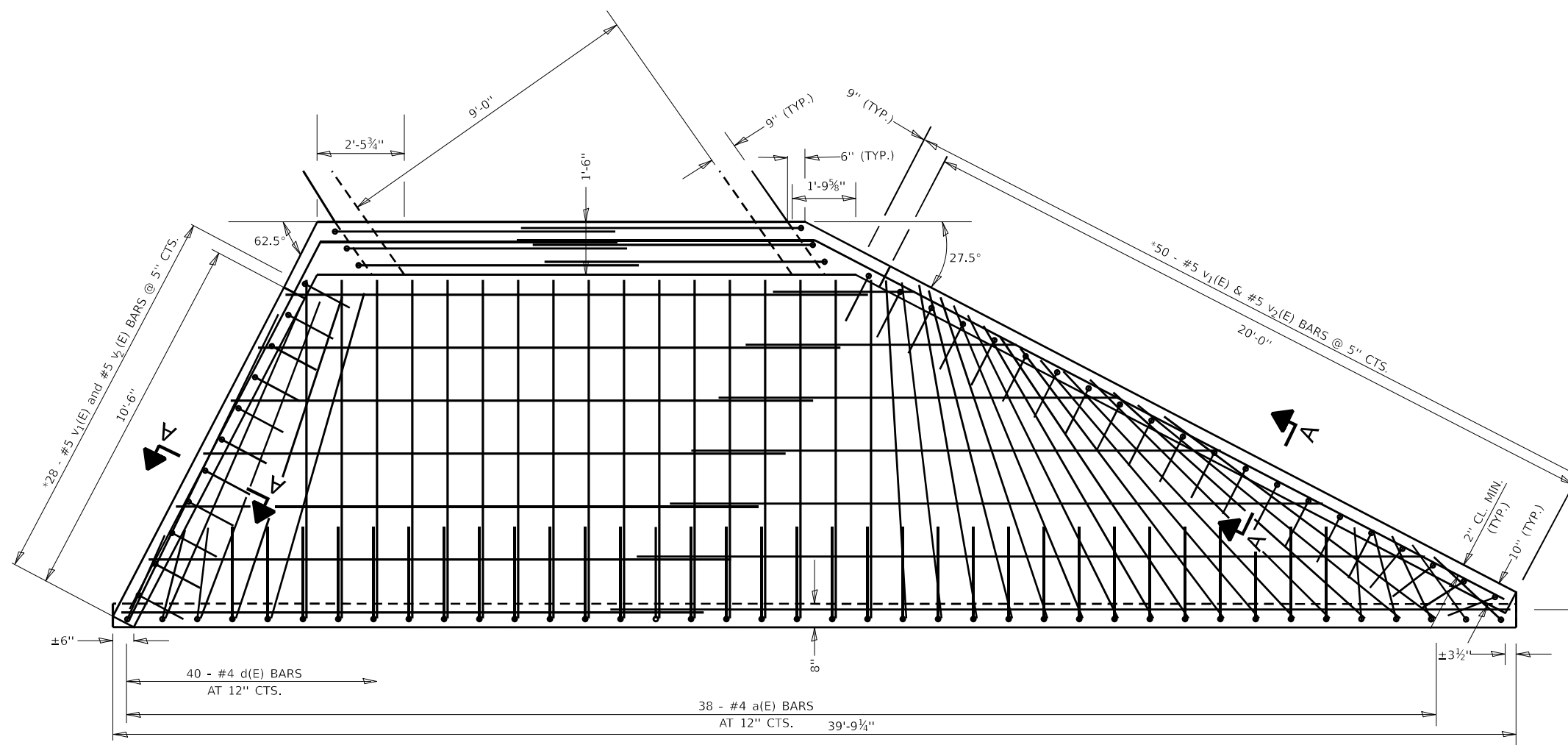


b(E) Bars - FIELD CUTTING DIAGRAM

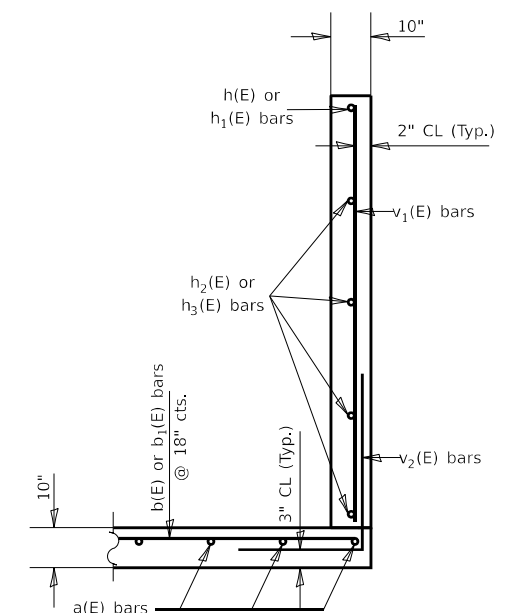


v1(E) Bars - FIELD CUTTING DIAGRAM

* CUT OR BEND TO FIT
 WORK THIS SHEET WITH SHEET 17 OF 28
 MIN BAR LAP = 2'-7" FOR #4 BARS
 MIN BAR LAP = 3'-4" FOR #5 BARS



PLAN



SECTION A-A

MODEL: Apron_End_Section_Details_2 (Sheet)
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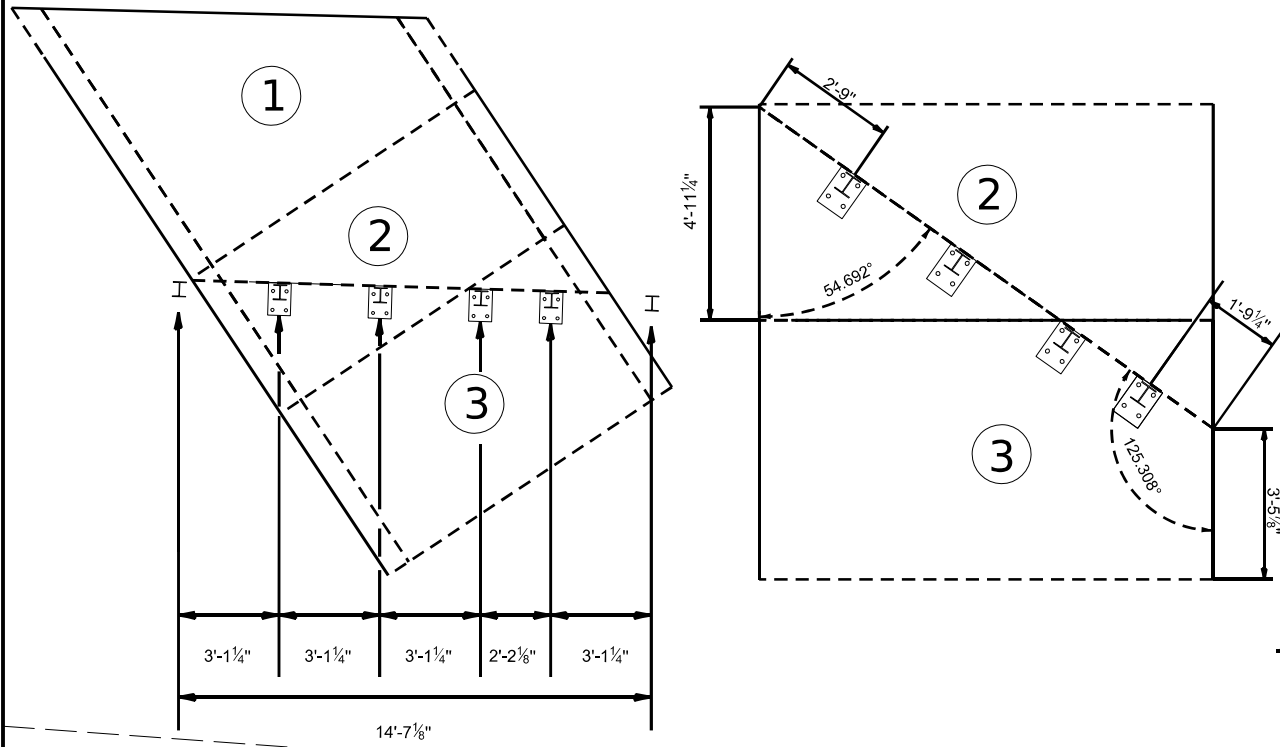
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**APRON END SECTION DETAILS
 SN 044-7100 (P)**

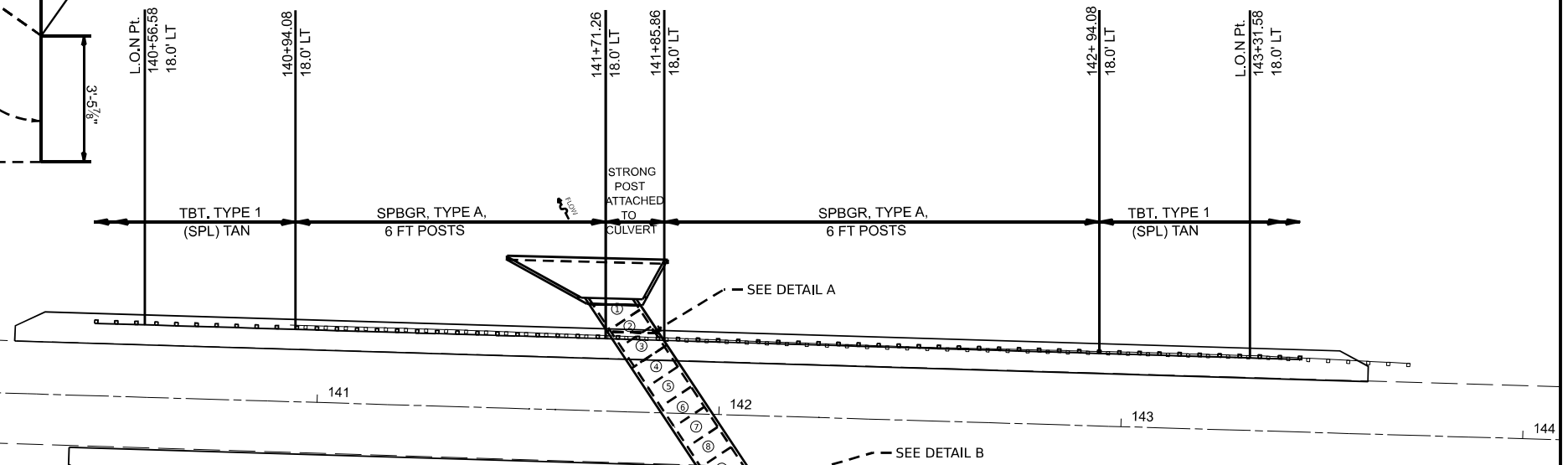
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F.A.P. RTE. 885	SECTION 110CR-1	COUNTY JOHNSON	TOTAL SHEETS 28	SHEET NO. 18
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

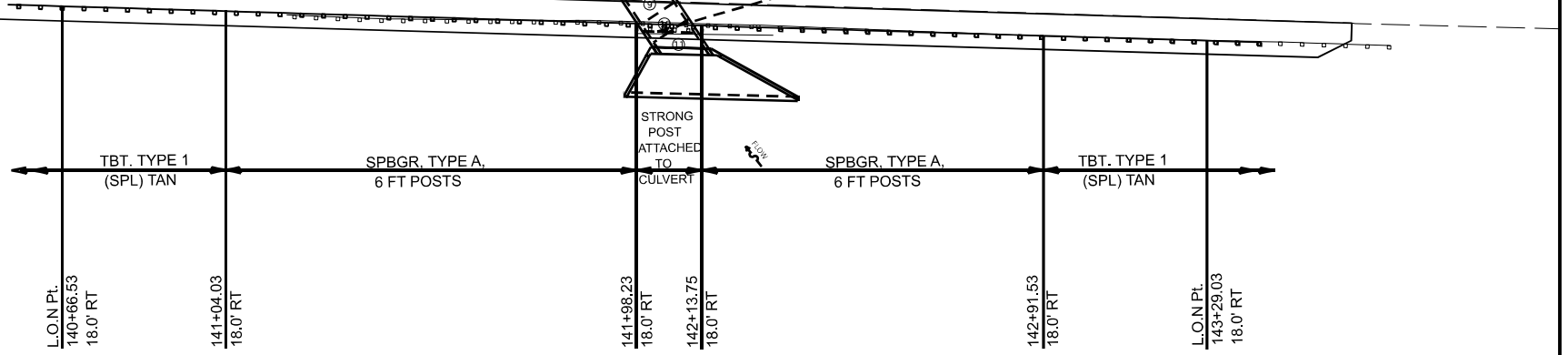
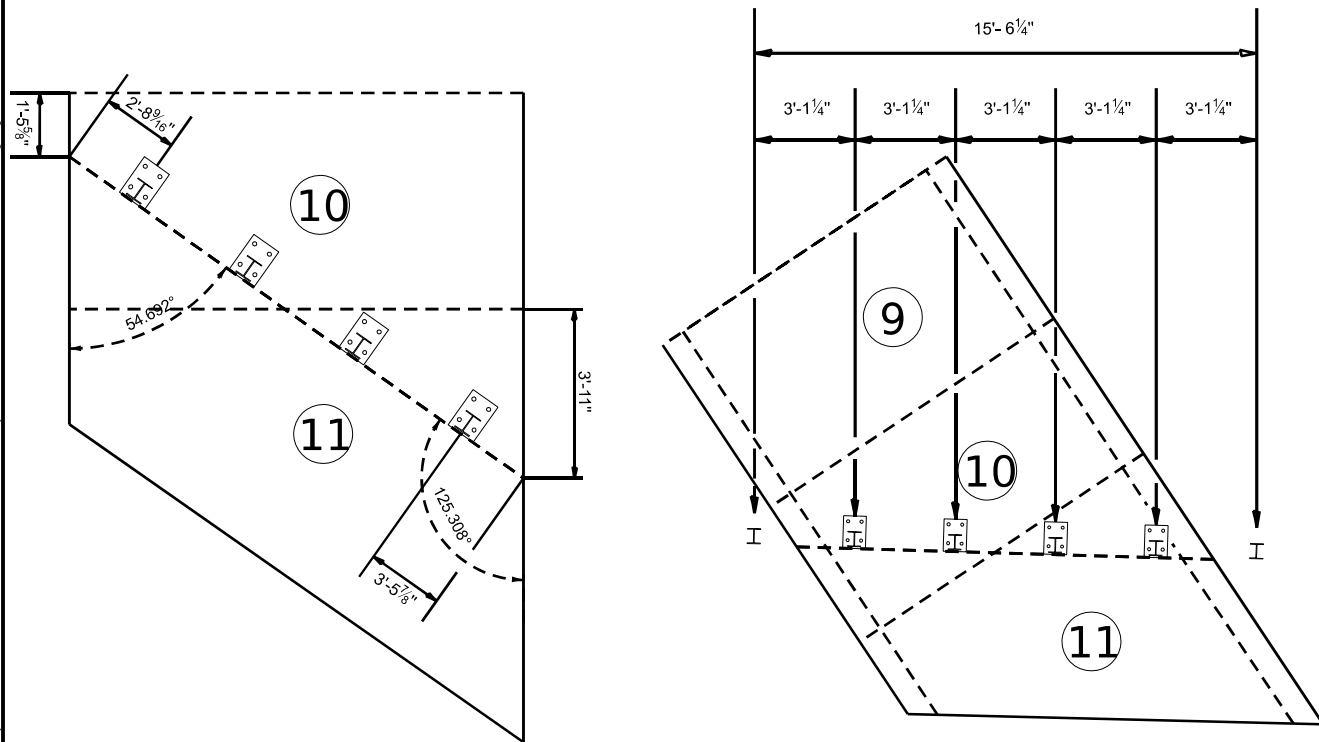
DETAIL A



- NOTES:
 1. STATIONS, OFFSETS, DIMENSIONS AND RADII ARE MEASURED TO THE FACE OF THE PROPOSED GUARDRAIL.
 2. THE HOLES FOR THE INSERTS IN THE TOP SLAB OF THE PROPOSED PRECAST BOX CULVERT SECTIONS 2, 3, 10, AND 11 SHALL BE CAST INTO THE TOP SLAB AT THE PRECAST CONCRETE PLANT. THE HOLES FOR INSERTS SHALL BE AS SHOWN IN STANDARD 630101.



DETAIL B



MODEL: Guardrail Detail A - 1 (Sheet)
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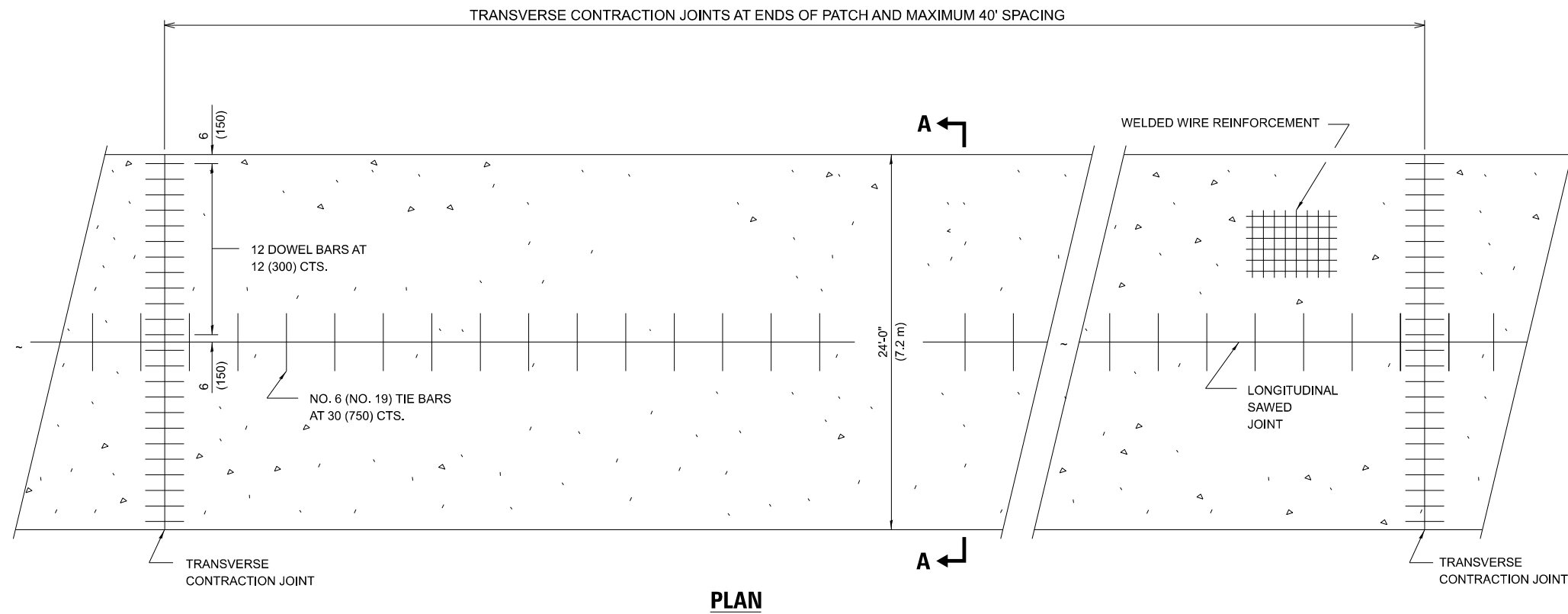
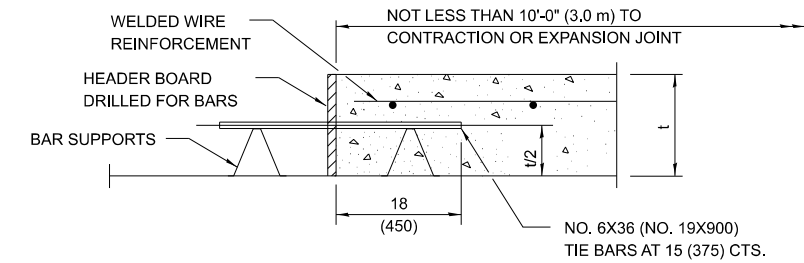
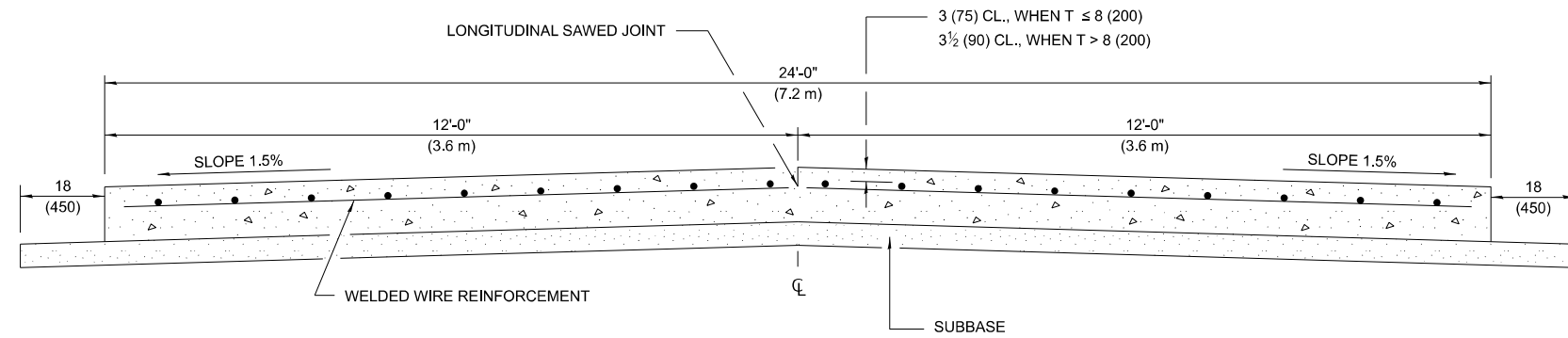
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL LAYOUT DETAILS
 SN 044-7100 (P)**

SCALE: NO SCALE SHEET 19 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 885	SECTION 110CR-1	COUNTY JOHNSON	TOTAL SHEETS 28	SHEET NO. 19
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

24' (7.2 m) PCC PAVEMENT OVER BOX CULVERT



GENERAL NOTES

SEE STANDARD 420001 FOR DETAILS NOT SHOWN.

SEE STANDARD 420701 FOR WELDED WIRE REINFORCEMENT DETAILS.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

ACTUAL DIMENSIONS TO MATCH FIELD CONDITIONS AND CONSTRUCTION METHODS.

DRAWN	11-09-17
REVISED	07-23-18
REVISED	10-21-21
REVISED	05-04-22

STD. 9-13

MODEL: District Standards (Sheet)
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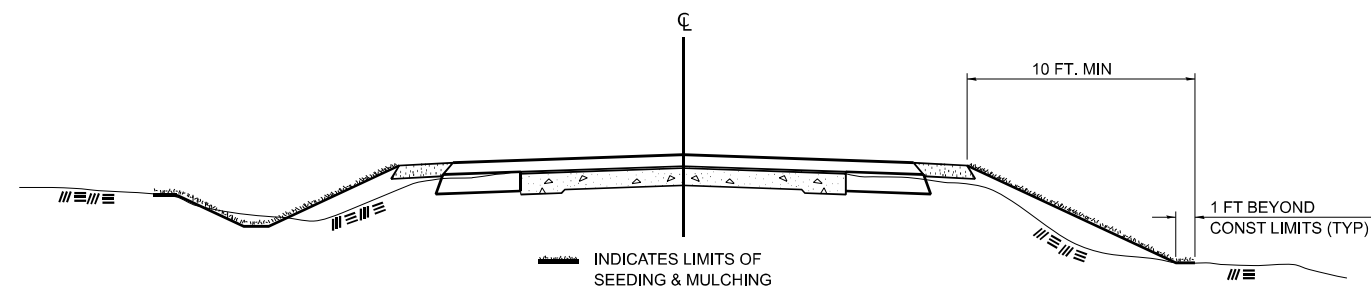
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT STANDARDS

SCALE: 1"=50' SHEET 20 OF 28 SHEETS STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	20
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

SEEDING & MULCHING



GENERAL NOTES

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

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS. LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

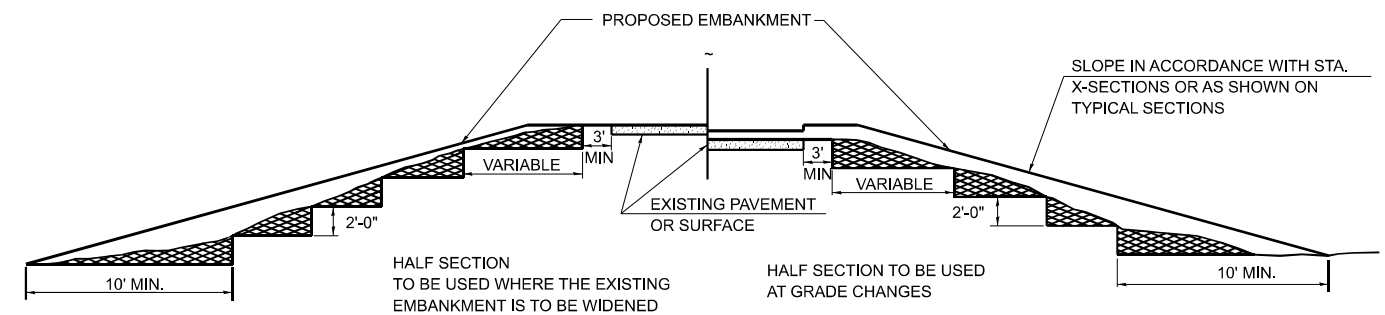
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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

DRAWN	02-15-89
REVISED	03-27-08
REVISED	10-21-21
REVISED	05-27-22

STD. 9-19

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



STEPS SHALL BE CUT IN THE EXISTING SLOPE IN ACCORDANCE WITH ART. 205.03 EXCEPT THAT THE REQUIREMENT THAT STEPS SHALL BE CUT INTO THE EXISTING SLOPE BEFORE THE CONSTRUCTION OF THE EXISTING EMBANKMENT IS STARTED SHALL NOT APPLY. MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

DRAWN	02-15-89
REVISED	05-07-08
REVISED	10-21-21
REVISED	05-27-22

STD. 9-25

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DATE: 10/20/2023

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

SCALE: 1"=50' SHEET 21 OF 28 SHEETS STA. + TO STA. +

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	21
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

SIGN DETAILS

- ①
3 REQUIRED

DETOUR	M4-8(O)-2412
ILLINOIS 146	M1-I100-3024
←	M6-1 L-2115
- ②
10 REQUIRED

DETOUR	M4-8(O)-2412
ILLINOIS 146	M1-I100-3024
↑	M6-3 2115
- ③
4 REQUIRED

DETOUR	M4-8(O)-2412
ILLINOIS 146	M1-I100-3024
↗	M5-1 R-2115
- ④
4 REQUIRED

DETOUR	M4-8(O)-2412
ILLINOIS 146	M1-I100-3024
↖	M5-1 L-2115
- ⑤
4 REQUIRED

DETOUR	M4-8(O)-2412
ILLINOIS 146	M1-I100-3024
→	M6-1 R02115
- ⑥
4 REQUIRED

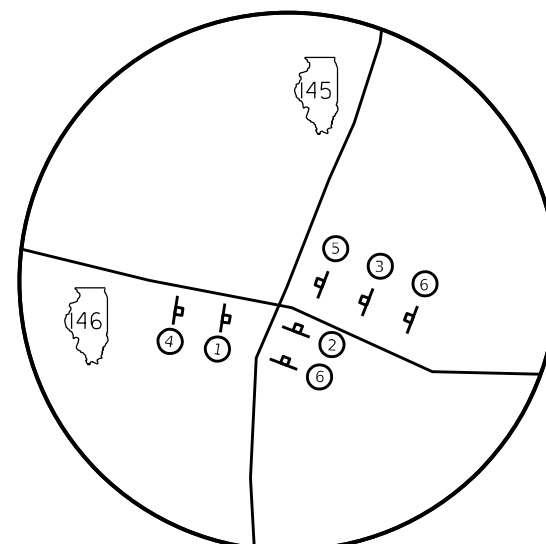
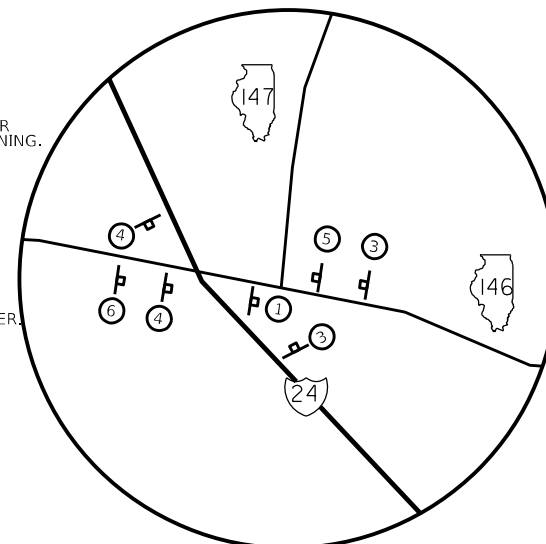
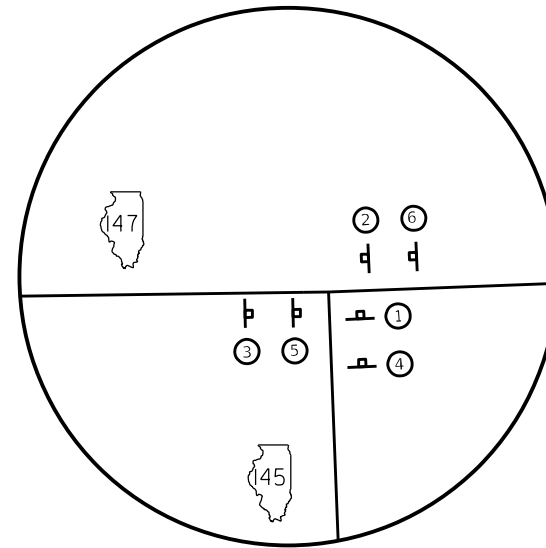
DETOUR AHEAD	W20-2(O)-4848
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MESSAGE BOARDS

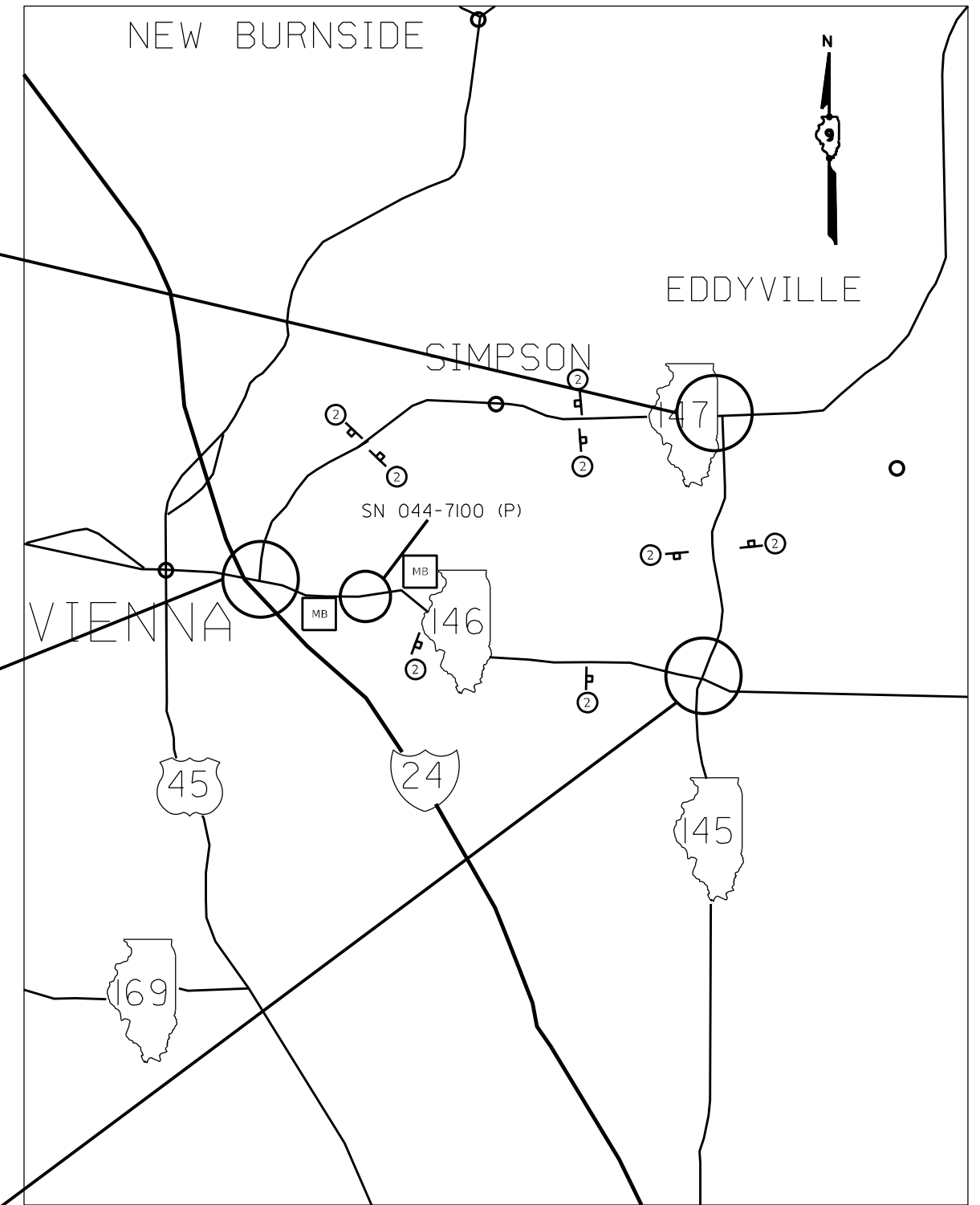
- MB 2 REQUIRED (3 WEEKS BEFORE CLOSURE)
- | | |
|-----------------------|--------------------|
| PRIOR TO CLOSURE | DURING CLOSURE |
| IL 146 WILL BE CLOSED | IL 146 CLOSED |
| XX MILES AHEAD | XX MILES AHEAD |
| DATE TO DATE | LOCAL TRAFFIC ONLY |

NOTES:

- THE CONTRACTOR HAS THE OPTION OF USING METAL POSTS INSTEAD OF WOOD.
- ALL SIGNS SHALL BE BLACK ON ORANGE. THE POSTS SHALL BE PLACED 12 FEET FROM THE EDGE OF PAVEMENT AS DIRECTED BY THE ENGINEER.
- ALL SIGNS AND HARDWARE REQUIRED TO INSTALL THE DETOUR ROUTE SIGNING SHALL BE INCLUDED IN COST OF DETOUR SIGNING.
- SIGNS SHALL BE REMOVED ON COMPLETION OF THE CONTRACT AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 724. THIS WORK WILL NOT BE PAID FOR. THE SIGNS AND POSTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- THE RELOCATING, MAINTENANCE OR REPLACEMENT OF SIGNS SHALL BE INCLUDED IN COST OF DETOUR SIGNING.
- EXACT SIGN PLACEMENT WILL BE DETERMINED BY THE ENGINEER.
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE ROAD CLOSURE IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR.
- THE DISTRICT 9 OPERATIONS ENGINEER SHALL BE CONTACTED 10 DAYS PRIOR TO THE ERECTION OF SIGNS.



*Detour Sign for I-24 EB and WB Traffic will be placed on the off-ramp for IL146



MODEL: Detour Sheet (Sheet)
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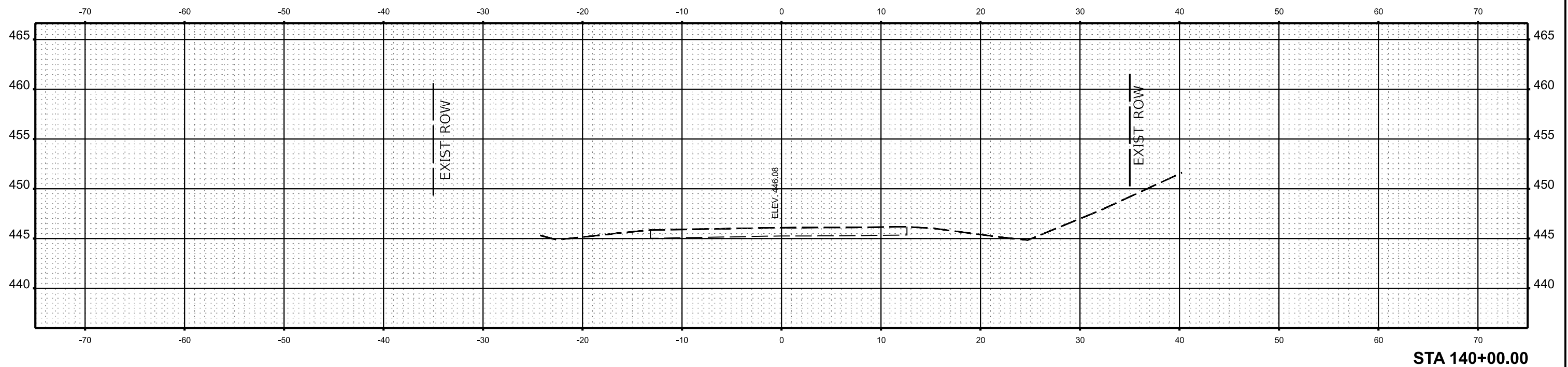
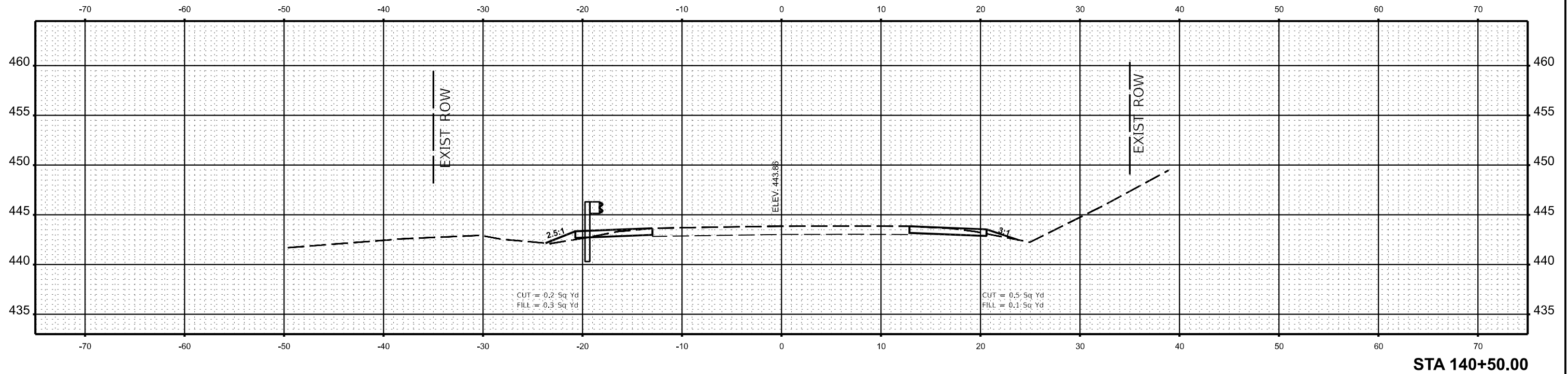
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING SHEET

SCALE: NO SCALE SHEET 22 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 885	SECTION 110CR-1	COUNTY JOHNSON	TOTAL SHEETS 26	SHEET NO. 22
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				



MODEL: I:\140+00.00.Plot (Sheet)
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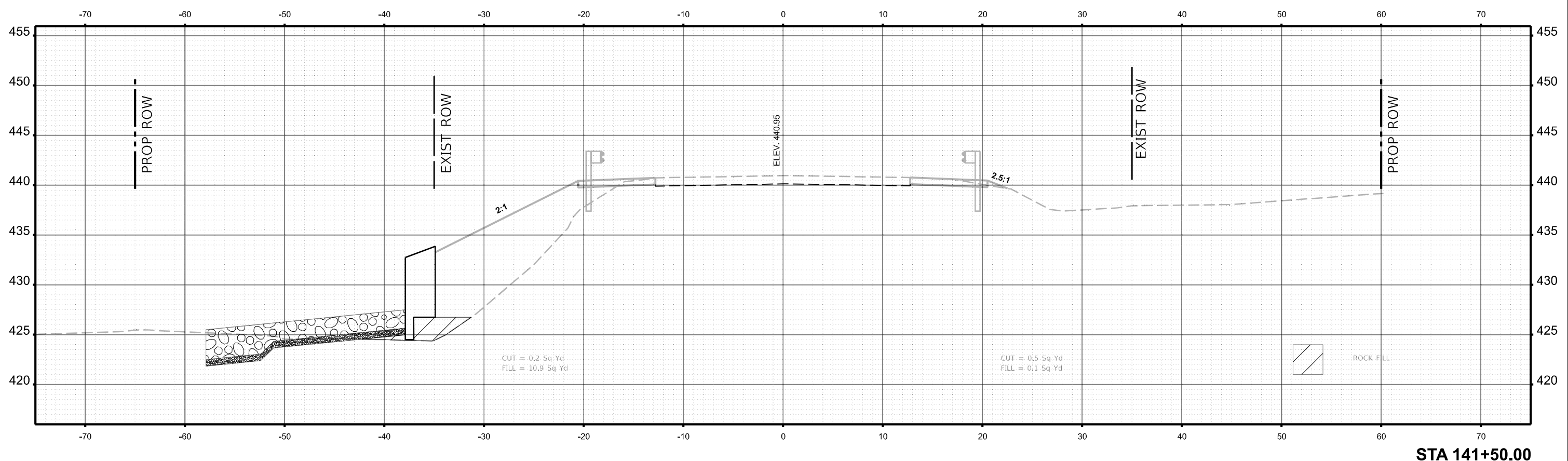
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

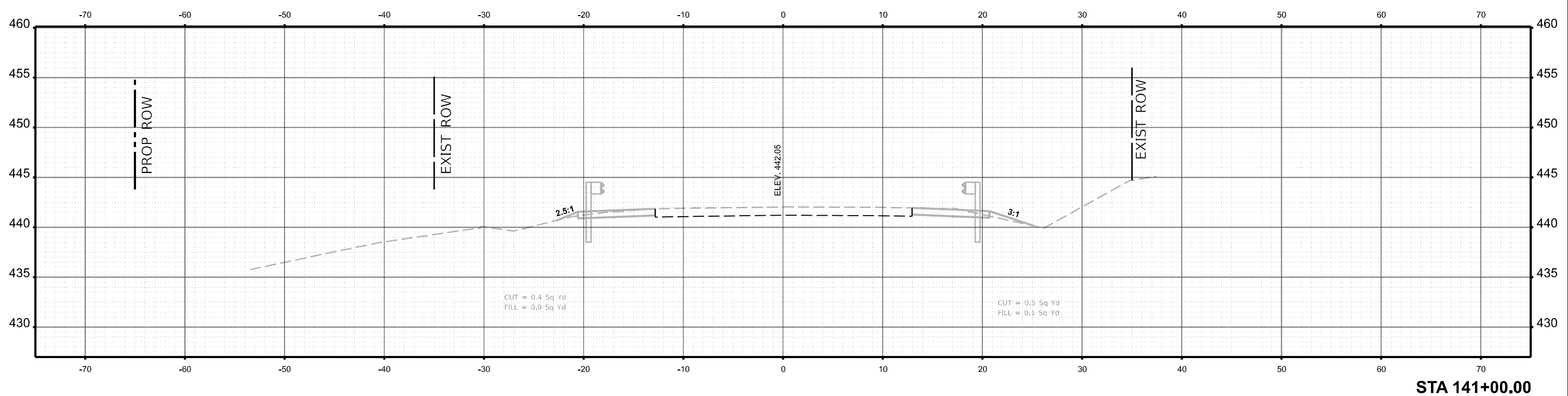
SCALE: 1"=5' SHEET 23 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	23
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

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STA 141+50.00



STA 141+00.00

USER NAME = david.a.wilson	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 12/12/2023	DATE -	REVISED -

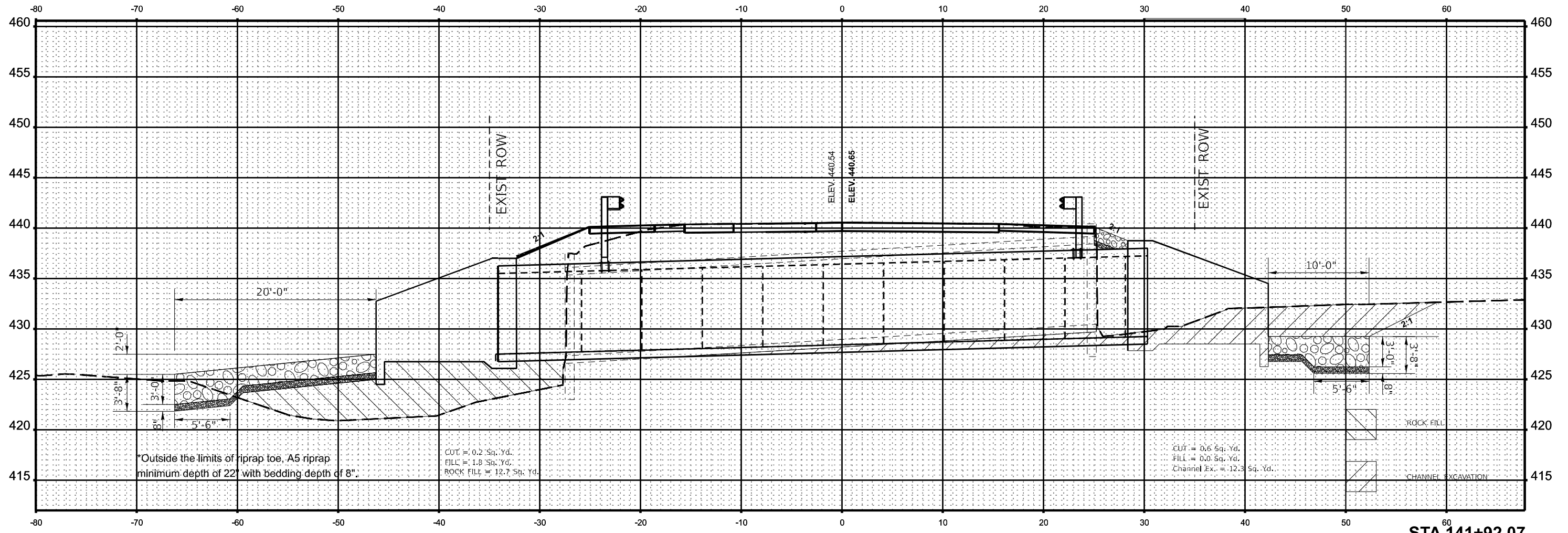
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: 1"=5' SHEET 24 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	24
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

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 PLOT DATE: 10/20/2023



CUT = 0.2 Sq. Yd.
 FILL = 1.8 Sq. Yd.
 ROCK FILL = 12.7 Sq. Yd.

CUT = 0.6 Sq. Yd.
 FILL = 0.0 Sq. Yd.
 Channel Ex. = 12.3 Sq. Yd.

STA 141+92.07
ALONG SKEW

USER NAME = zachary.lomax	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 10/20/2023	CHECKED -	REVISED -
	DATE -	REVISED -

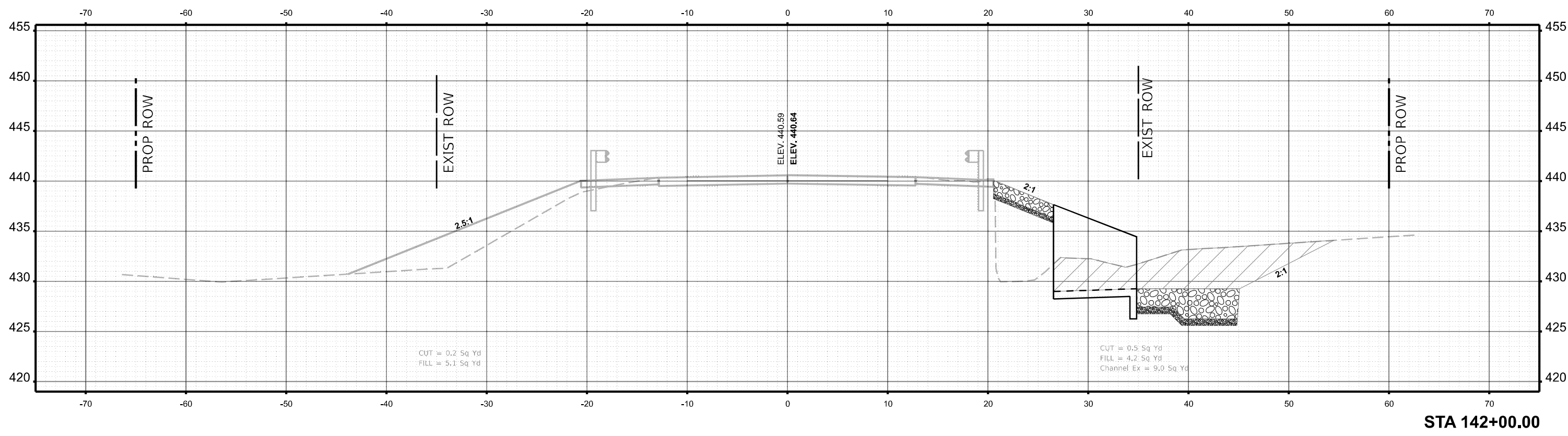
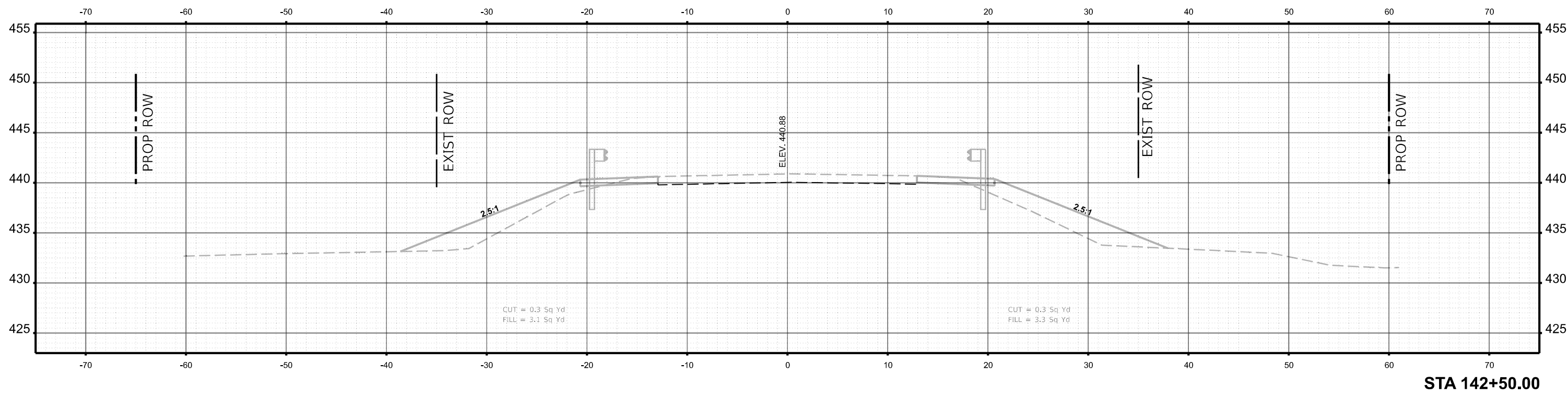
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5' SHEET 25 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	25
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

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USER NAME = david.a.wilson	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 12/12/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

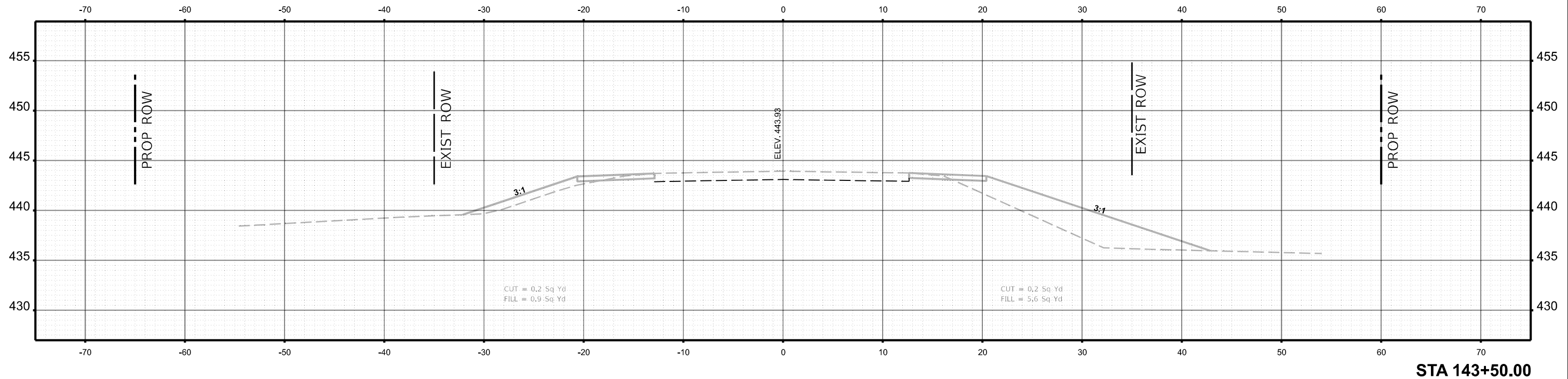
CROSS SECTIONS

SCALE: 1"=5' SHEET 26 OF 28 SHEETS STA. TO STA.

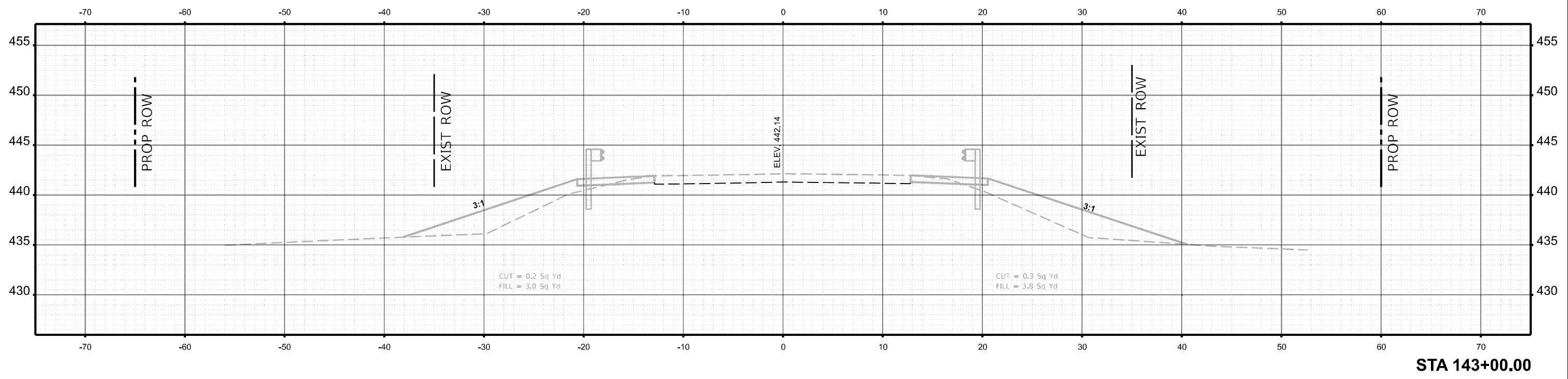
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	26
CONTRACT NO. 78948				

ILLINOIS FED. AID PROJECT

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STA 143+50.00



STA 143+00.00

USER NAME = david.a.wilson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 12/12/2023	DATE -	REVISED -

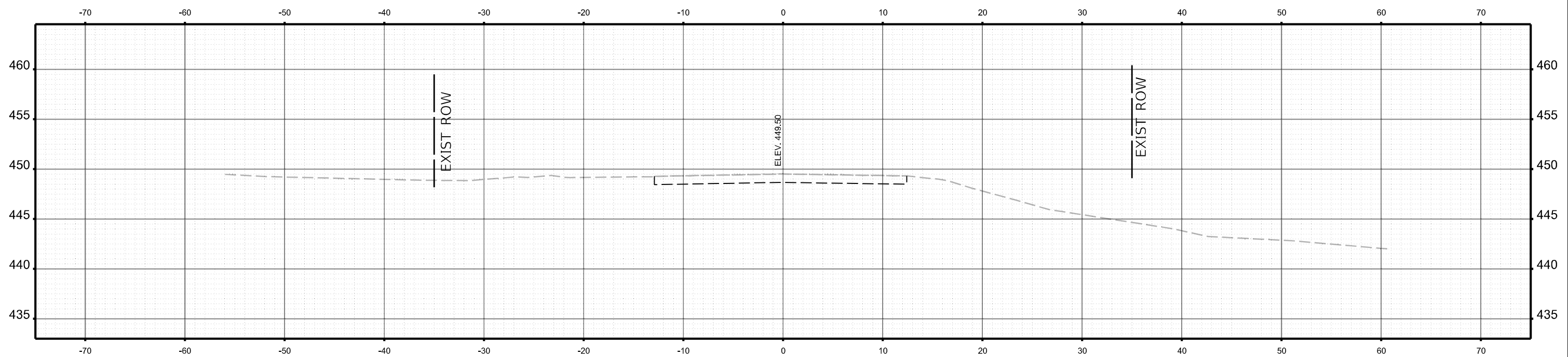
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

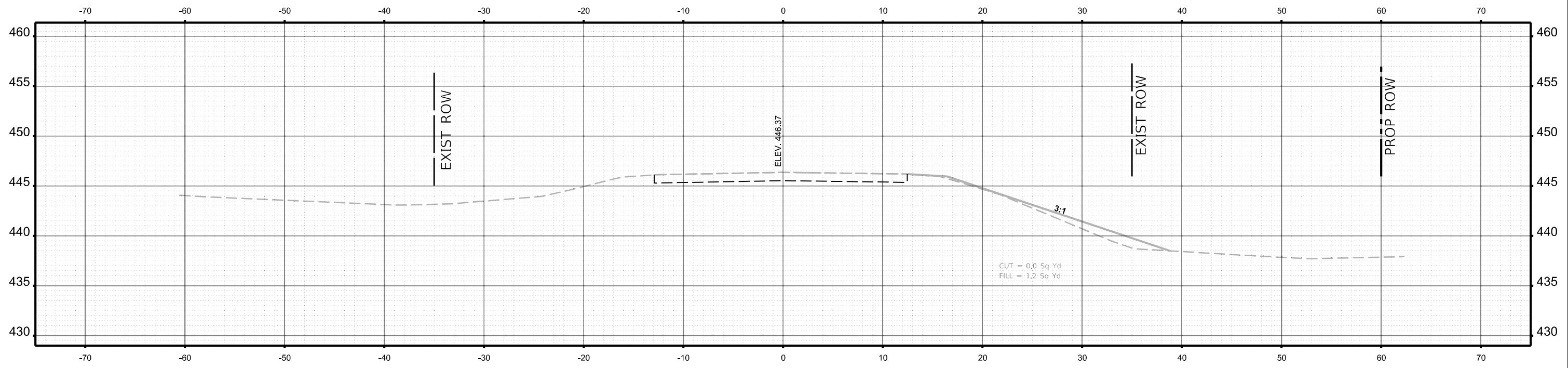
SCALE: 1"=5' SHEET 27 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	27
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				

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STA 144+50.00



STA 144+00.00

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	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 12/12/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: 1"=5' SHEET 28 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	110CR-1	JOHNSON	28	28
CONTRACT NO. 78948				
ILLINOIS FED. AID PROJECT				