

670.96 670.96	670.67 670.67	670.53 670.53	670.51 670.51	670.69 670.74	671.05 671.09	670.04 670.39	669.20 669.55	668.89 668.95	668.70 668.70	668.49 668.49	668.55 668.55
297+50	298+00	298+50	299+00	299+50	300+00	300+50	301+00	301+50	302+00	302+50	303+00

USER NAME = BDeCrane	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 3/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**SPRUCE ST  
DRAINAGE PLAN AND PROFILE**

SCALE: H=20 V=5 SHEET 10 OF 10 SHEETS STA. 297+00.00 TO STA. 303+00.00

F.A.S. RTE. 311	SECTION 08-00286-00-FP	COUNTY KANKAKEE	TOTAL SHEETS 173	SHEET NO. 101
CONTRACT NO. 87805				

MODEL: \$MODELNAMES  
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- LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT
- SAWED LONGITUDINAL JOINT
- TRANSVERSE SAWED CONTRACTION JOINT
- LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT WITH DOWEL BARS
- LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT WITH TIE BARS

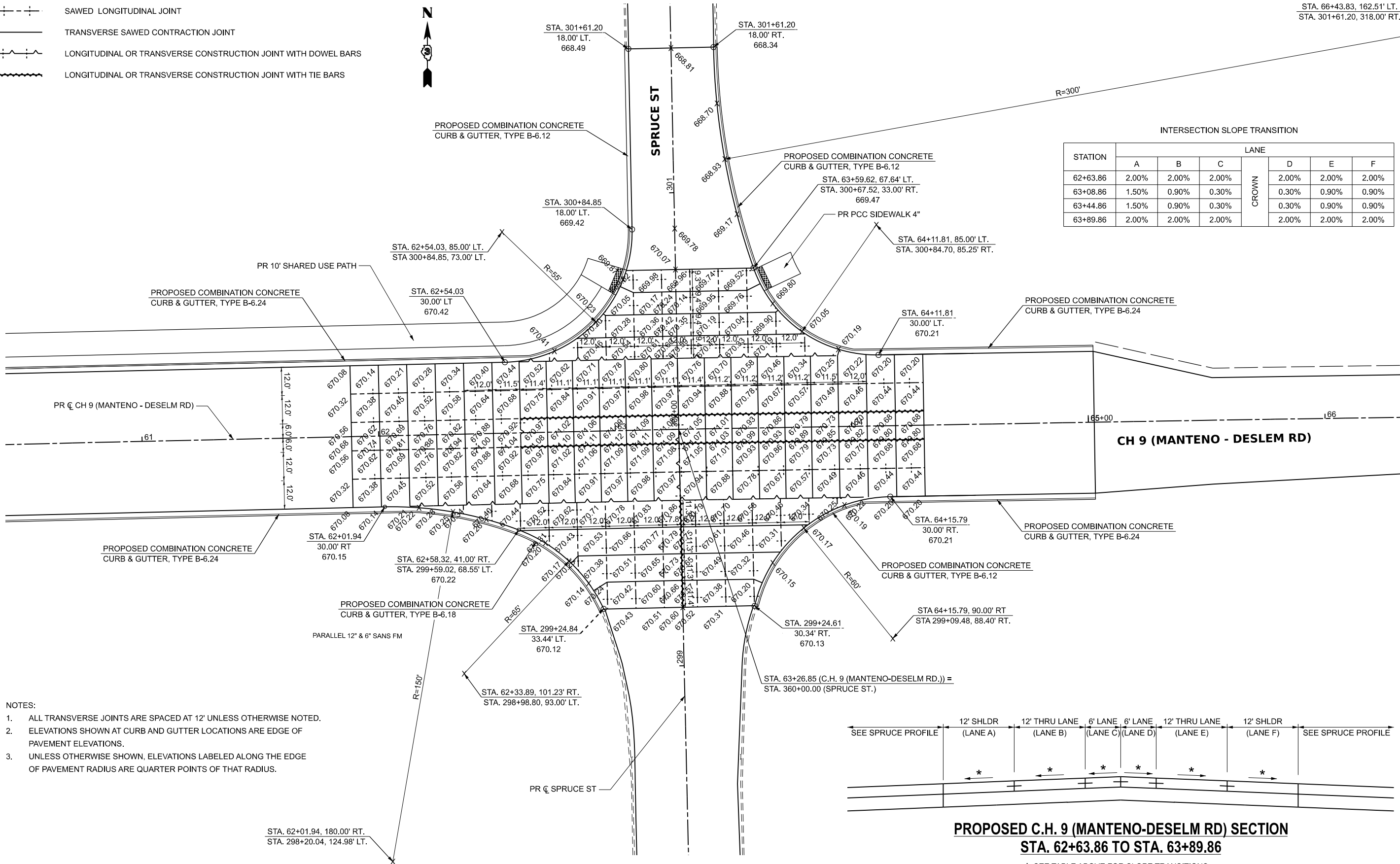


STA. 66+43.83, 162.51' LT.  
STA. 301+61.20, 318.00' RT.

R=300'

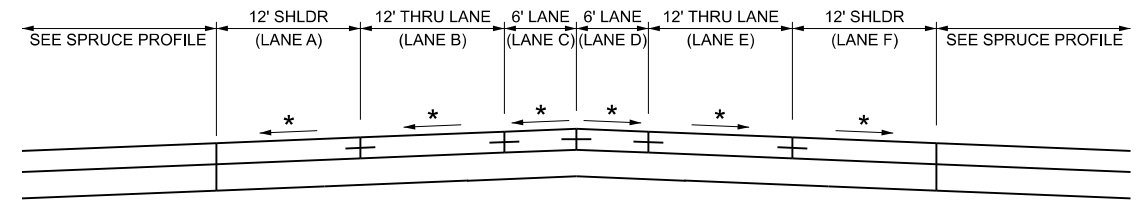
INTERSECTION SLOPE TRANSITION

STATION	LANE					
	A	B	C	D	E	F
62+63.86	2.00%	2.00%	2.00%	CROWN	2.00%	2.00%
63+08.86	1.50%	0.90%	0.30%		0.30%	0.90%
63+44.86	1.50%	0.90%	0.30%		0.30%	0.90%
63+89.86	2.00%	2.00%	2.00%		2.00%	2.00%



**CH 9 (MANTENO - DESELM RD)**

- NOTES:
- ALL TRANSVERSE JOINTS ARE SPACED AT 12' UNLESS OTHERWISE NOTED.
  - ELEVATIONS SHOWN AT CURB AND GUTTER LOCATIONS ARE EDGE OF PAVEMENT ELEVATIONS.
  - UNLESS OTHERWISE SHOWN, ELEVATIONS LABELED ALONG THE EDGE OF PAVEMENT RADIUS ARE QUARTER POINTS OF THAT RADIUS.



**PROPOSED C.H. 9 (MANTENO-DESELM RD) SECTION  
STA. 62+63.86 TO STA. 63+89.86**

\* SEE TABLE ABOVE FOR SLOPE TRANSITIONS

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DESIGNED -  
DRAWN -  
PLOT SCALE = 0.16666633' / in.  
CHECKED -  
PLOT DATE = 3/21/2024  
DATE -

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

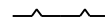
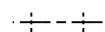
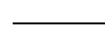
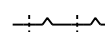
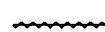
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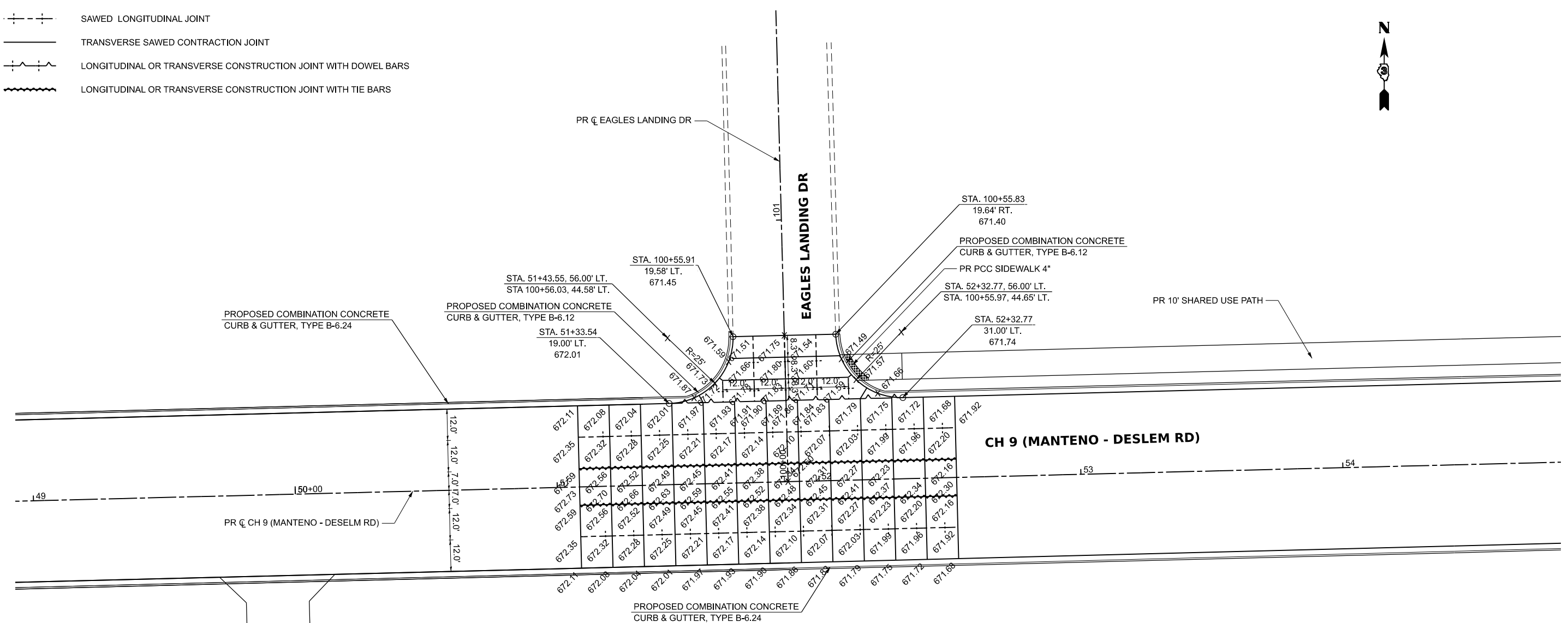
**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
INTERSECTION DETAIL AND JOINTING PLAN**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	102
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

-  LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT
-  SAWED LONGITUDINAL JOINT
-  TRANSVERSE SAWED CONTRACTION JOINT
-  LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT WITH DOWEL BARS
-  LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT WITH TIE BARS



**NOTES:**

1. ALL TRANSVERSE JOINTS ARE SPACED AT 12' UNLESS OTHERWISE NOTED.
2. ELEVATIONS SHOWN AT CURB AND GUTTER LOCATIONS ARE EDGE OF PAVEMENT ELEVATIONS.
3. UNLESS OTHERWISE SHOWN, ELEVATIONS LABELED ALONG THE EDGE OF PAVEMENT RADIUS ARE QUARTER POINTS OF THAT RADIUS.

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

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PLOT DATE = 3/21/2024	DATE -	REVISED -	

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
INTERSECTION DETAIL AND JOINTING PLAN**

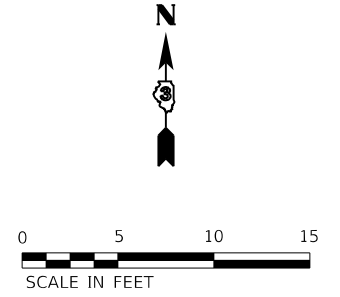
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	103
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

-  DETECTABLE WARNING
-  TURNING SPACE / LEVEL LANDING  
1.5% CROSS-SLOPE BOTH DIRECTION

NOTES:

1. SEE HIGHWAY STANDARDS 424001 - 424031 FOR MAX SLOPES AND ADDITIONAL REQUIREMENTS.
2. SEE HIGHWAY STANDARD 606001 FOR CURB AND GUTTER REQUIREMENTS NEXT TO ADA RAMP.
3. ALL CROSS-SLOPES IN THE DIRECTION OF TRAVEL ARE AN ABSOLUTE MAXIMUM OF 2% LAYOUT SHOULD BE AT 1.5% TO ALLOW FOR ERROR WHILE REMAINING WITH THE MAXIMUM SLOPE.
4. SIDEWALK CURBS ARE SHOWN ONLY AS REQUIRED BY FIELD CONDITIONS AND MAY BE OMITTED IF FOUND TO BE UNNECESSARY.
5. SIDEWALK CURBS ARE INCLUDED IN THE COST OF SIDEWALK.



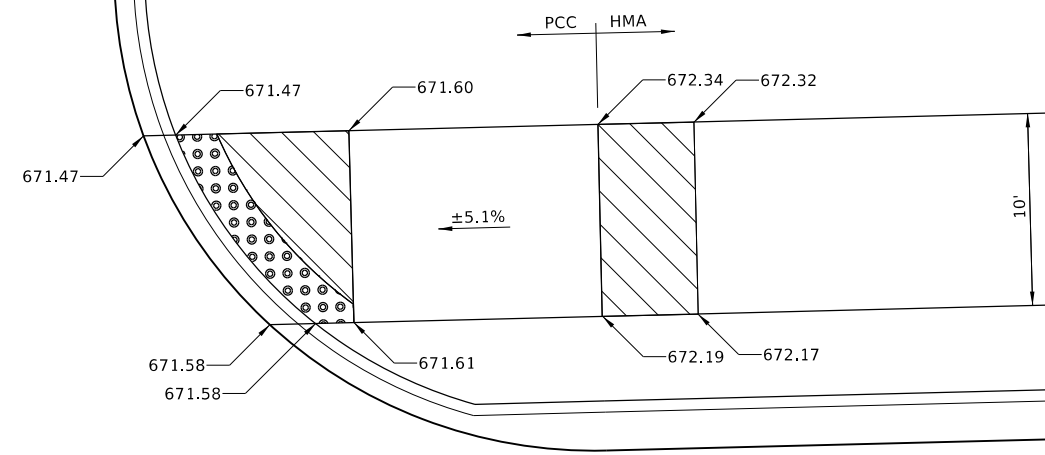
DETECTABLE WARNING = 24.8 SQ FT  
SIDEWALK 4" = 191.4 SQ FT

EAGLES LANDING

100+00

52

CH 9 (MANTENO - DESLEM RD)



MODEL: S:\MODEL\NAMES  
FILE NAME: Y:\S051 - Manteno-Deslem Recon\CADD\CADD Sheets\PHASE II\S051-shh-ada.dgn



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PLOT SCALE = 10,000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

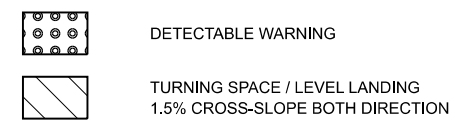
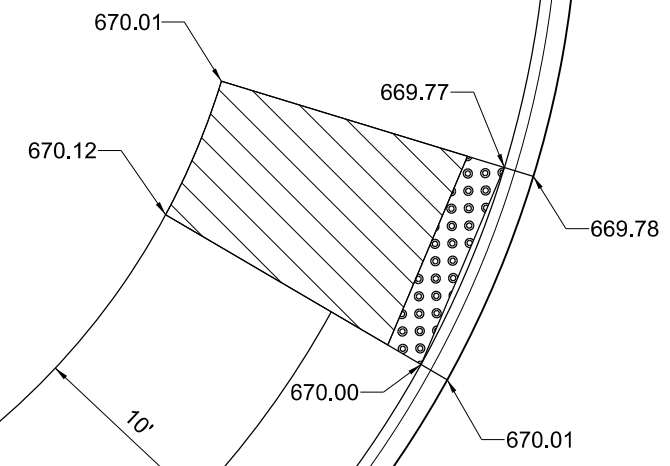
**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
ADA DETAILS**

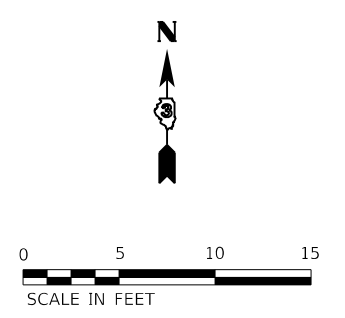
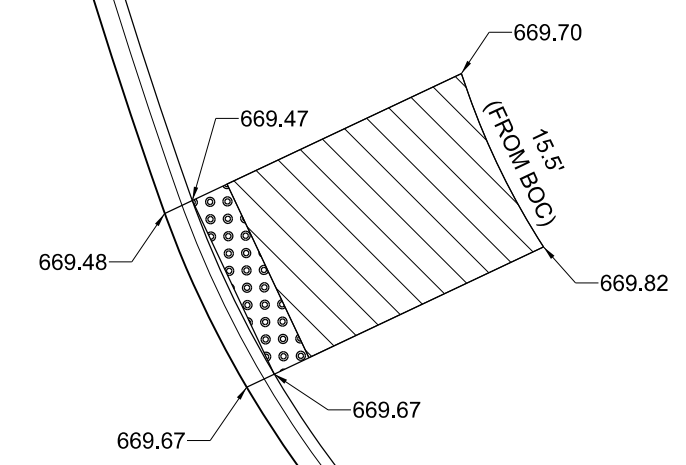
SCALE: 1"=5'      SHEET 1    OF 2    SHEETS    STA.      TO STA.

F.A.S. RTE. 311	SECTION 08-00286-00-FP	COUNTY KANKAKEE	TOTAL SHEETS 173	SHEET NO. 104
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

DETECTABLE WARNING = 21.8 SQ FT  
SIDEWALK 4" = 144.2 SQ FT



DETECTABLE WARNING = 20.0 SQ FT  
SIDEWALK 4" = 154.5 SQ FT



N SPRUCE ST

300+00

63

64

CH 9 (MANTENO - DESELM RD)

- NOTES:
1. SEE HIGHWAY STANDARDS 424001 - 424031 FOR MAX SLOPES AND ADDITIONAL REQUIREMENTS.
  2. SEE HIGHWAY STANDARD 606001 FOR CURB AND GUTTER REQUIREMENTS NEXT TO ADA RAMPS.
  3. ALL CROSS-SLOPES IN THE DIRECTION OF TRAVEL ARE AN ABSOLUTE MAXIMUM OF 2% LAYOUT SHOULD BE AT 1.5% TO ALLOW FOR ERROR WHILE REMAINING WITH THE MAXIMUM SLOPE.
  4. SIDEWALK CURBS ARE SHOWN ONLY AS REQUIRED BY FIELD CONDITIONS AND MAY BE OMITTED IF FOUND TO BE UNNECESSARY.
  5. SIDEWALK CURBS ARE INCLUDED IN THE COST OF SIDEWALK.

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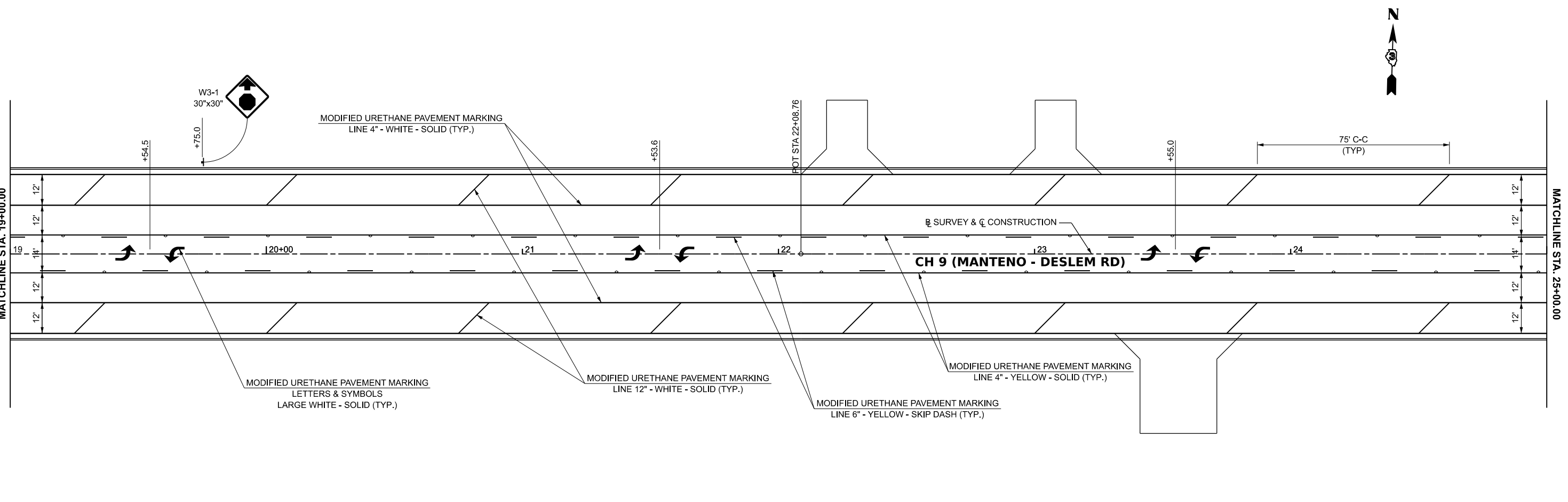
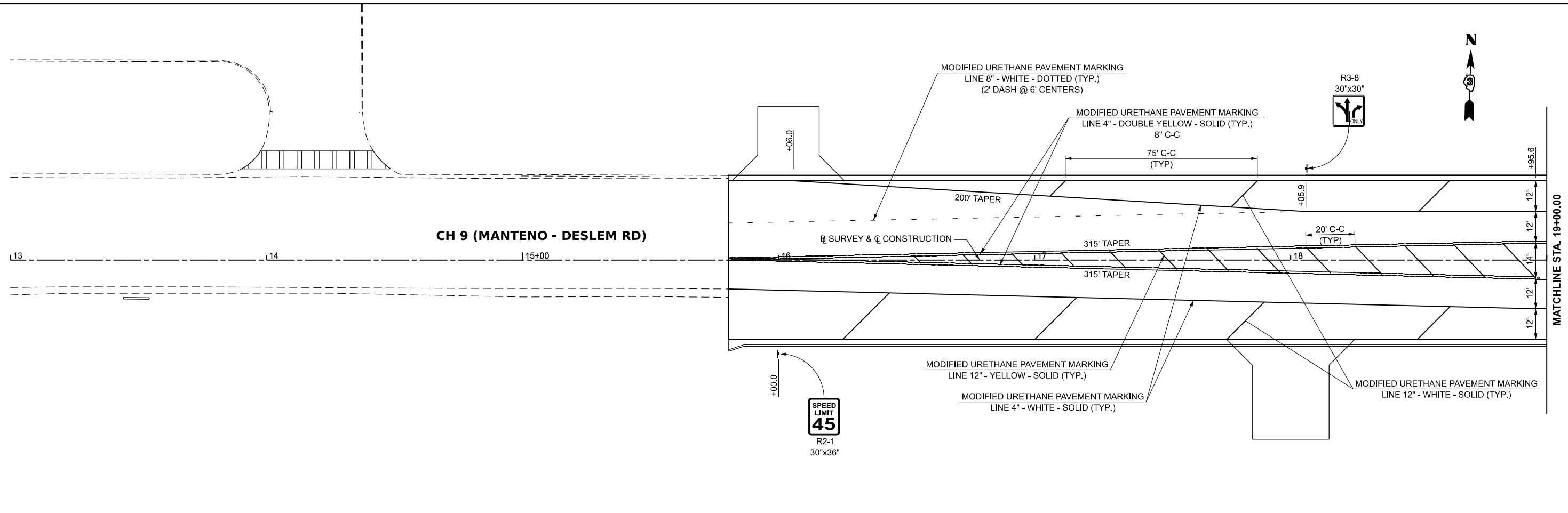
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	DATE -	REVISED -

KANKAKEE COUNTY  
HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
ADA DETAILS

SCALE: 1"=5' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	105
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



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 PLOT DATE = 3/21/2024

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 DRAWN -  
 CHECKED -  
 DATE -

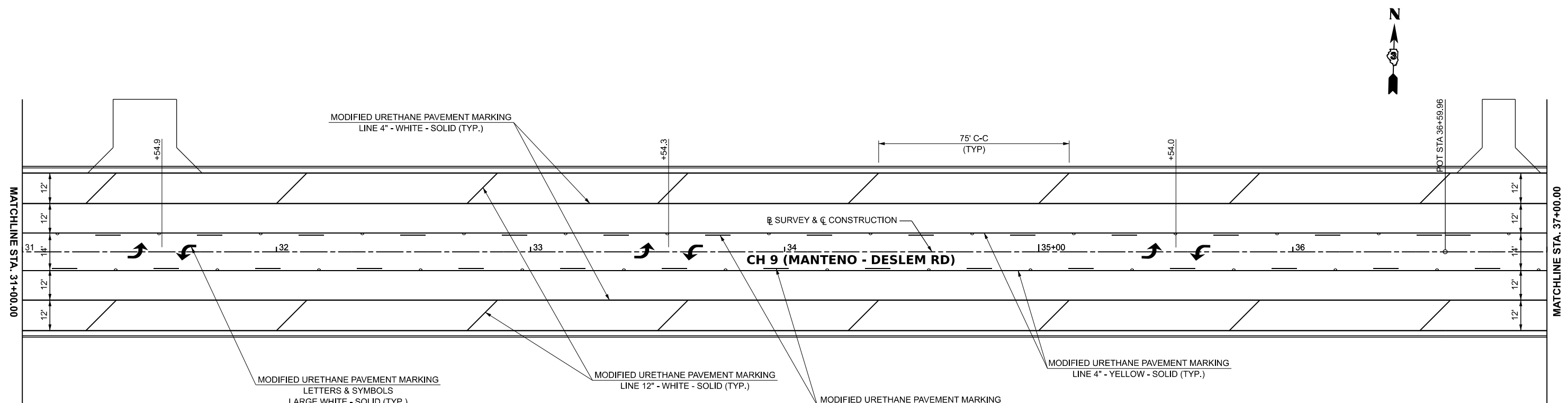
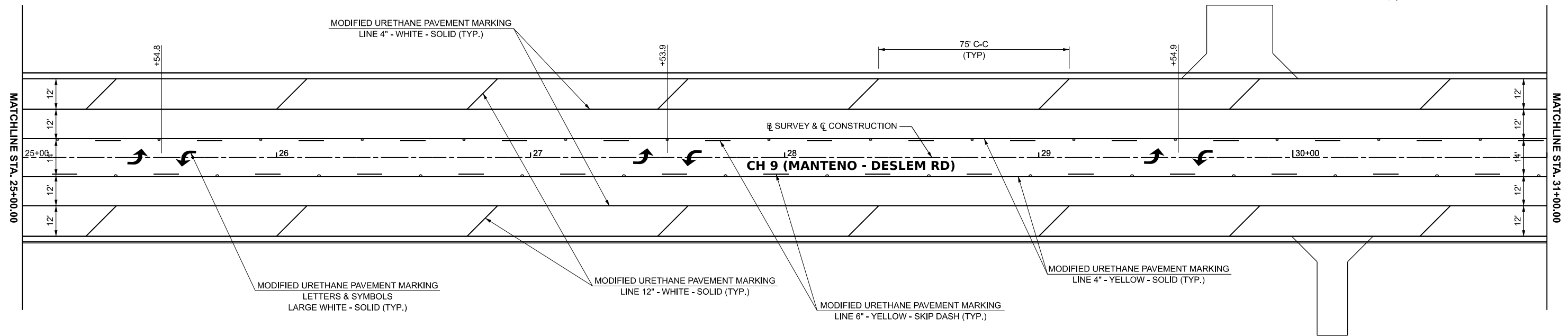
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
PAVEMENT MARKING PLAN**

SCALE: 1"=20'    SHEET 1 OF 7 SHEETS    STA. 13+00.00 TO STA. 25+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	106
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



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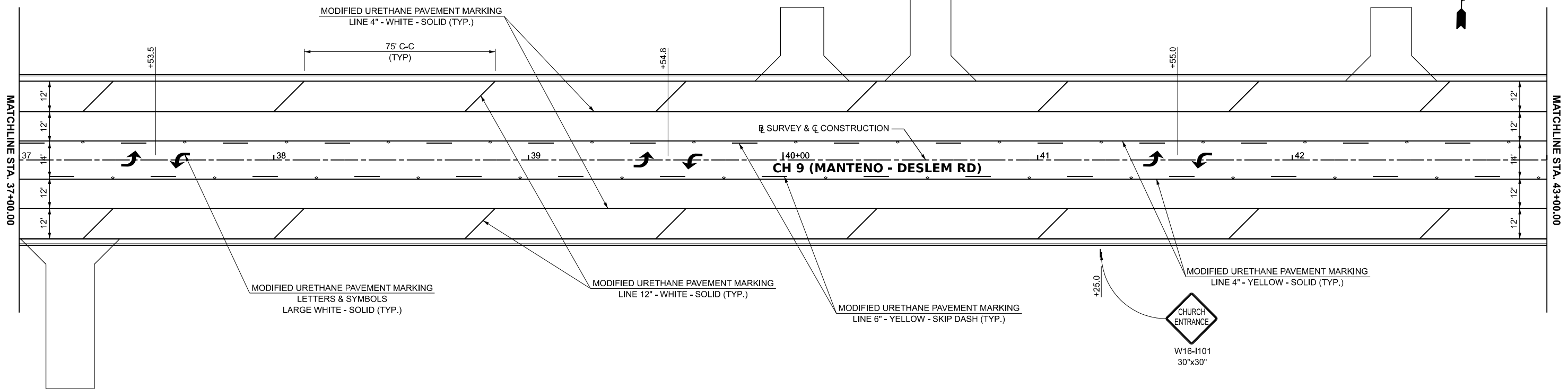
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
PAVEMENT MARKING PLAN**

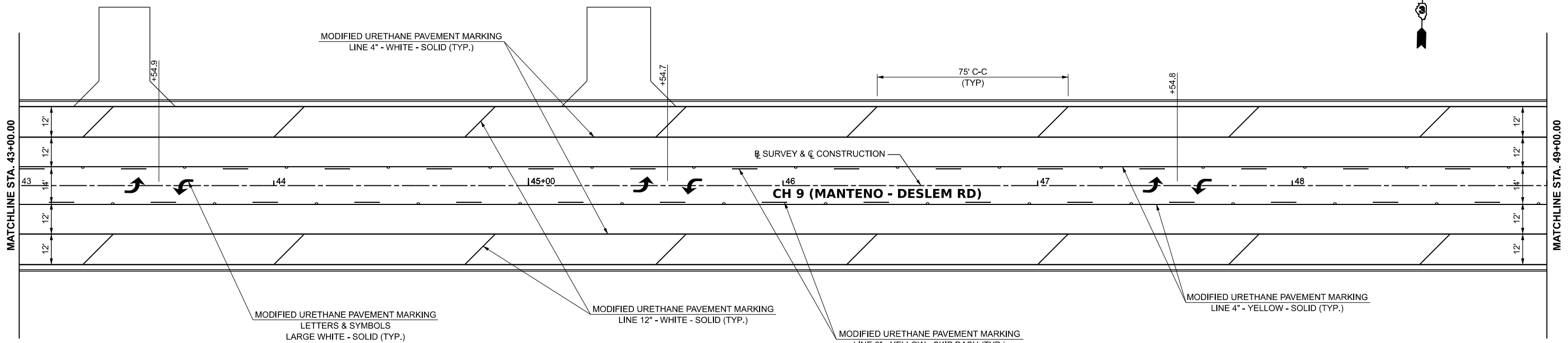
SCALE: 1"=20'    SHEET 2 OF 7 SHEETS    STA. 25+00.00 TO STA. 37+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	107
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 43+00.00

MATCHLINE STA. 37+00.00



MATCHLINE STA. 49+00.00

MATCHLINE STA. 43+00.00

MODEL: \$MODELNAMES  
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	DATE -	REVISED -

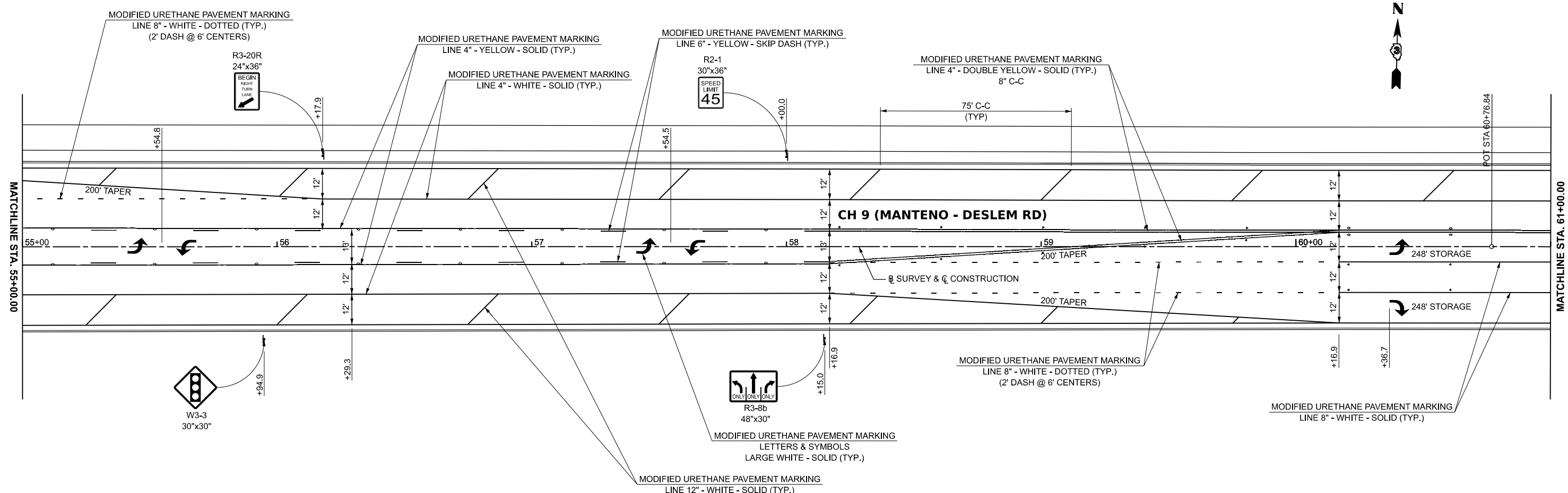
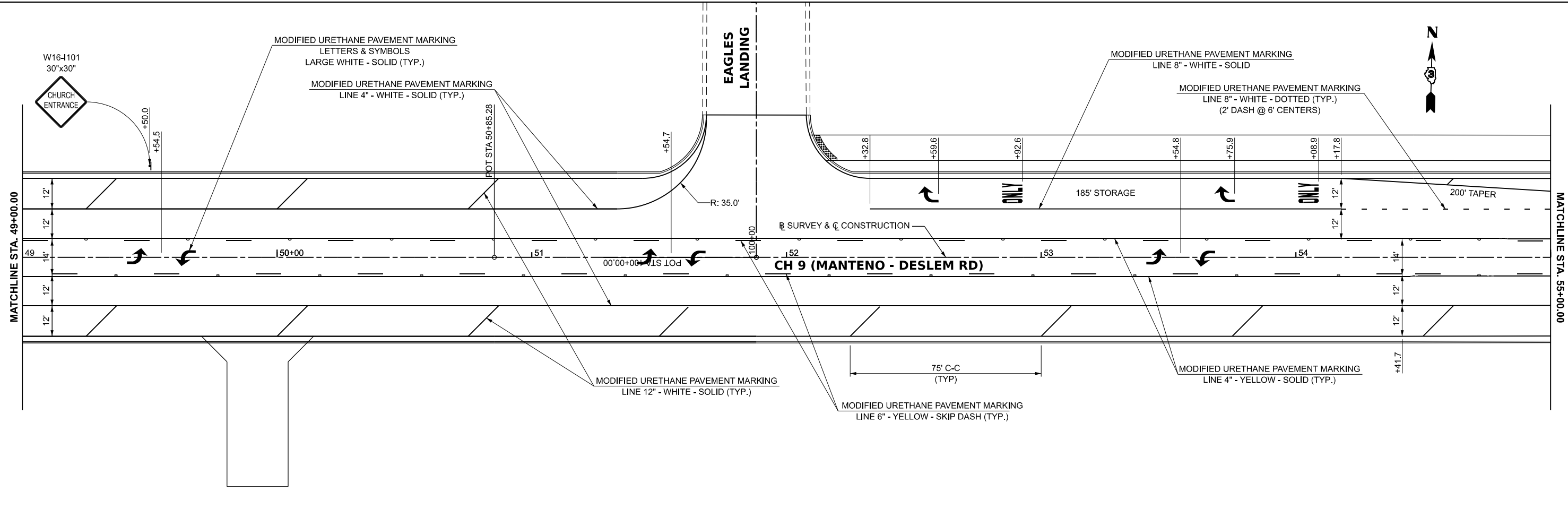
KANKAKEE COUNTY  
HIGHWAY DEPARTMENT

**CH 9 (MANTENO - DESELM RD)  
PAVEMENT MARKING PLAN**

SCALE: 1"=20'    SHEET 3 OF 7 SHEETS    STA. 37+00.00 TO STA. 49+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	108
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				





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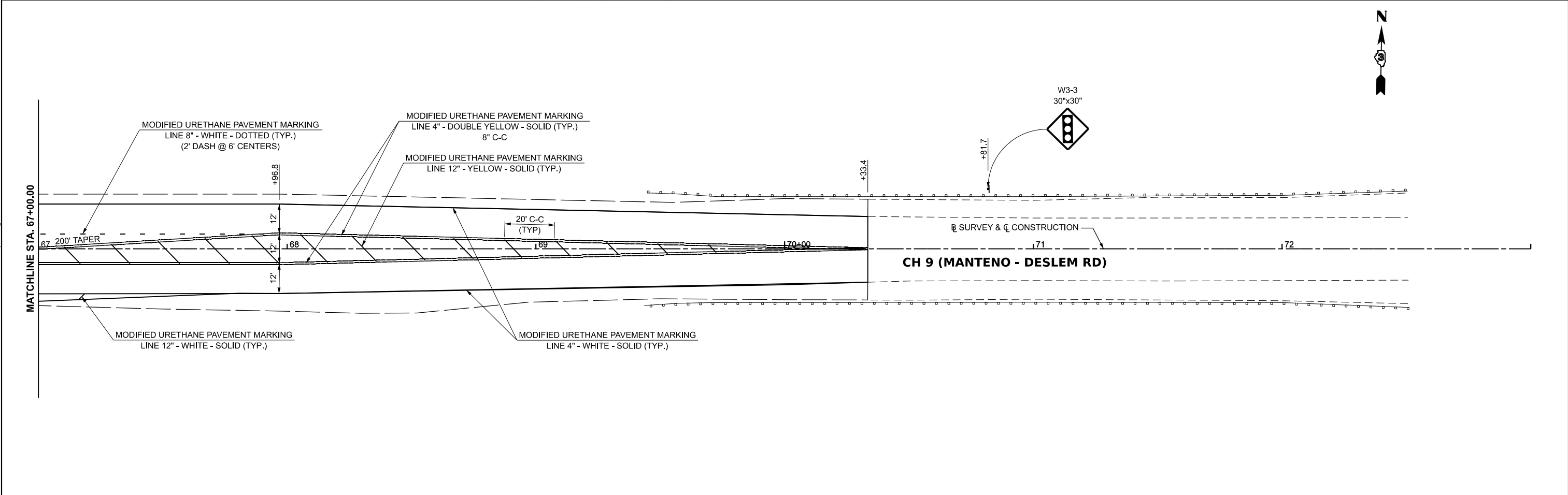
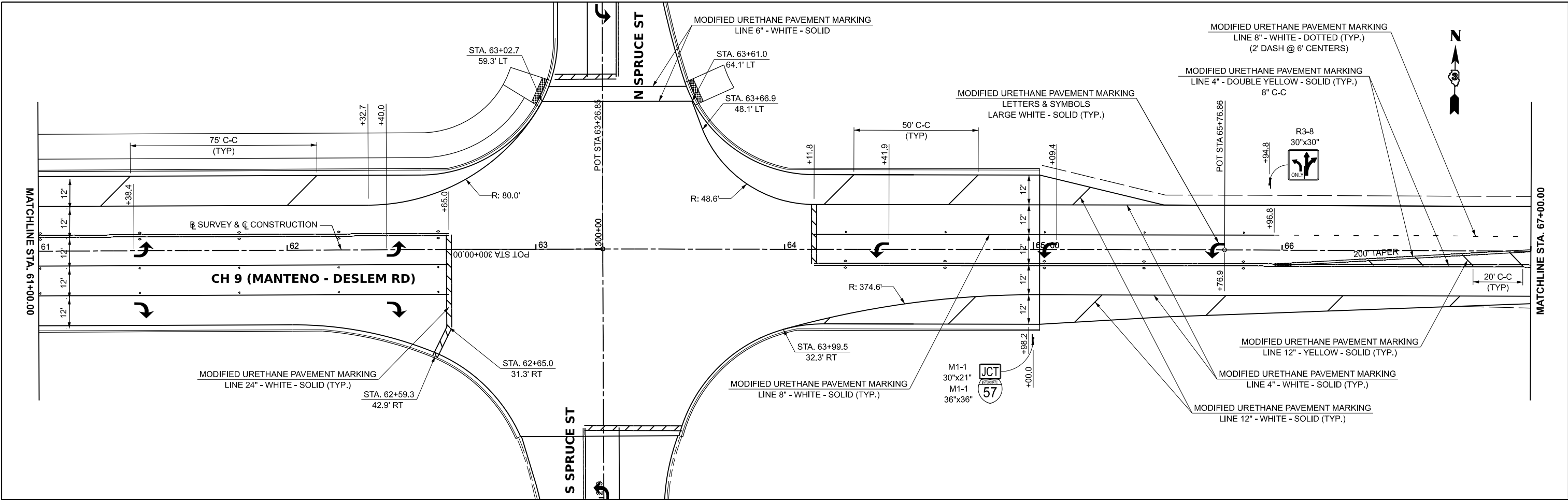
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**KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
 PAVEMENT MARKING PLAN**

SCALE: 1"=20'    SHEET 4 OF 7 SHEETS    STA. 49+00.00 TO STA. 61+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	109
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



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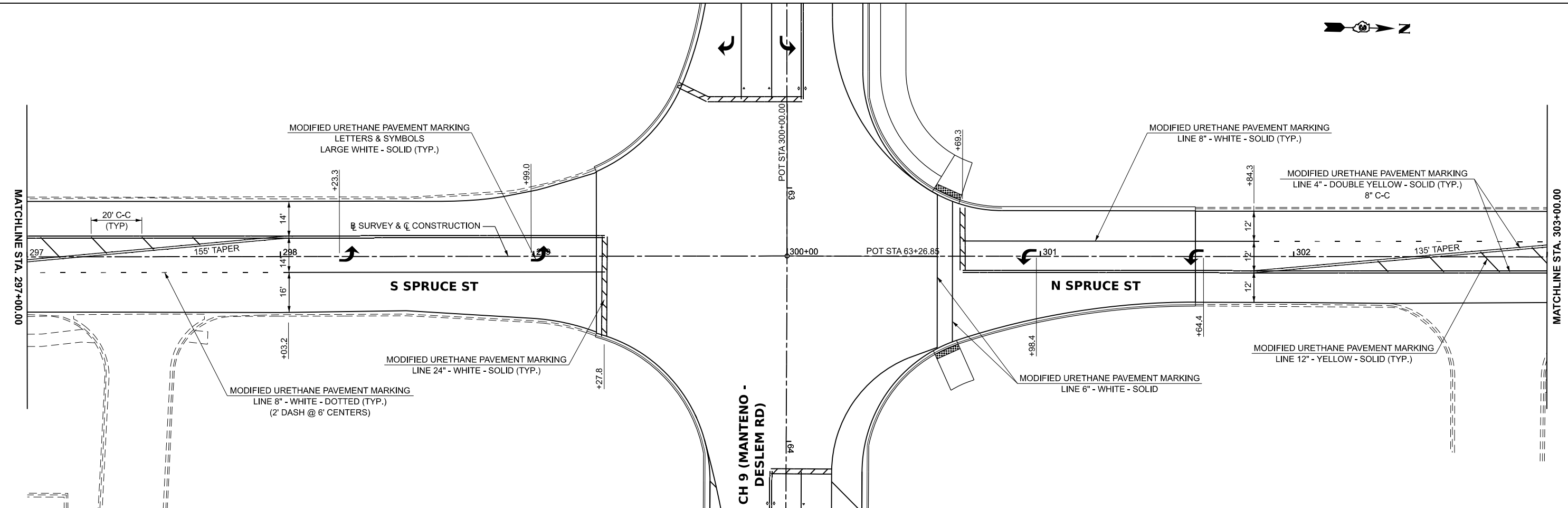
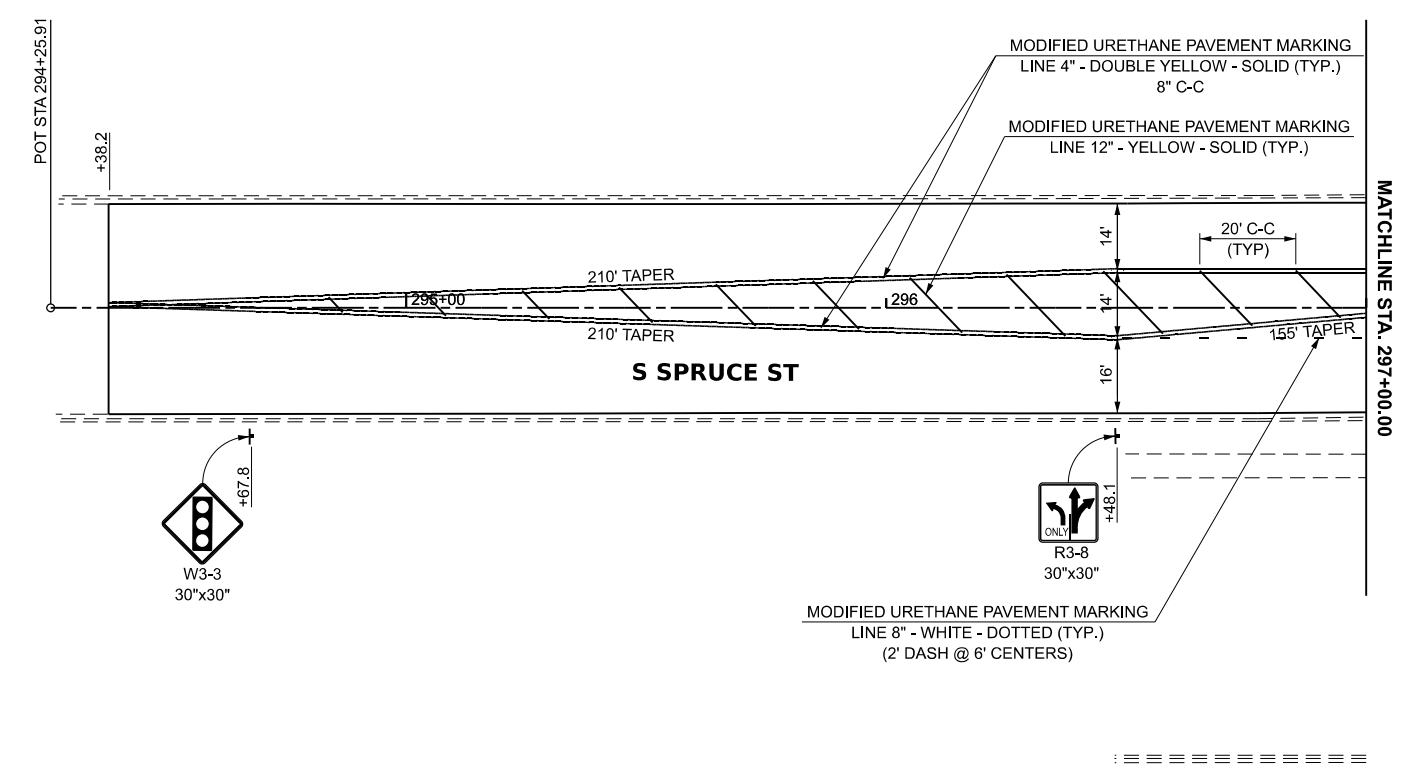
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	DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
PAVEMENT MARKING PLAN**

SCALE: 1"=20'      SHEET 5 OF 7 SHEETS      STA. 61+00.00 TO STA. 73+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	110
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



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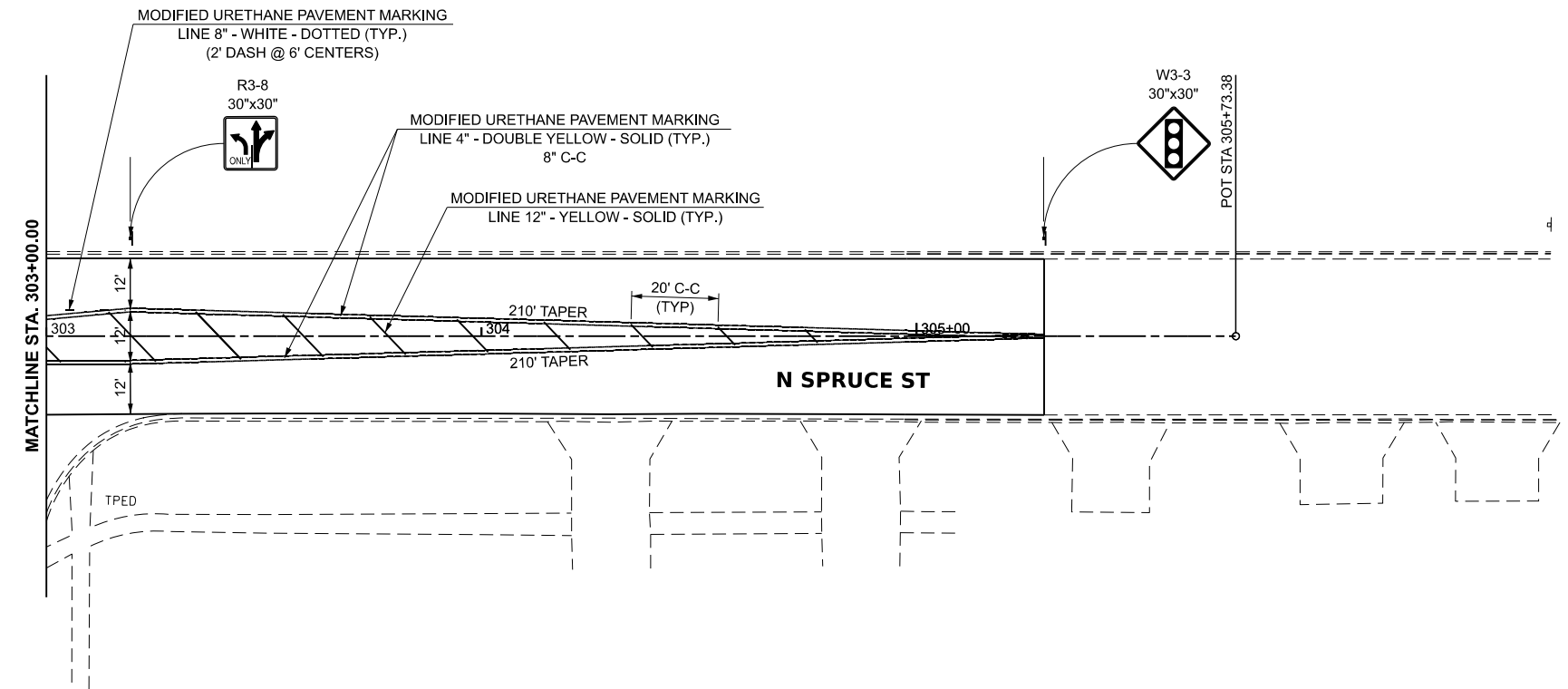
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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
 PAVEMENT MARKING PLAN

SCALE: 1"=20' SHEET 6 OF 7 SHEETS STA. 291+00.00 TO STA. 303+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	111
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



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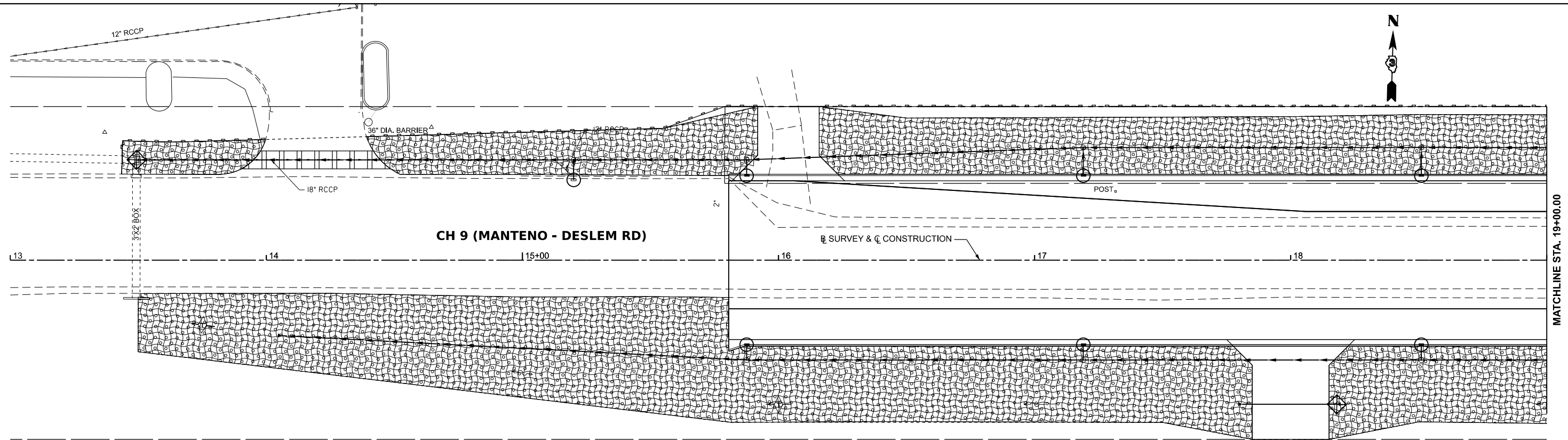
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PLOT DATE = 3/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
PAVEMENT MARKING PLAN**

SCALE: 1"=20'      SHEET 7      OF 7      SHEETS      STA. 303+00.00      TO STA. 309+00.00

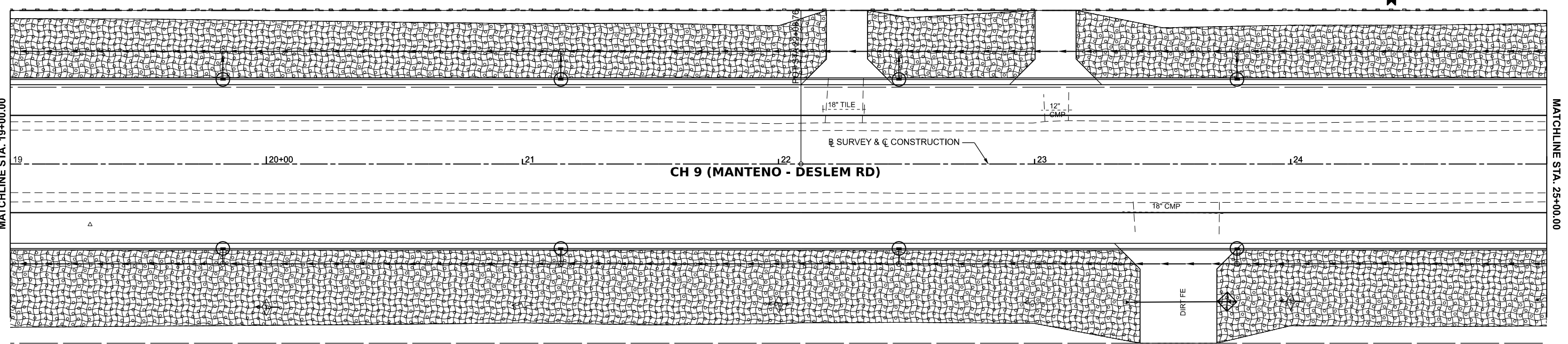
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	112
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 19+00.00

**LEGEND**

	PERIMETER EROSION BARRIER		SEEDING, CLASS 2A
	INLET AND PIPE PROTECTION		EROSION CONTROL BLANKET
	INLET FILTER		RIPRAP, A4
	TEMPORARY DITCH CHECK		



MATCHLINE STA. 19+00.00

MATCHLINE STA. 25+00.00

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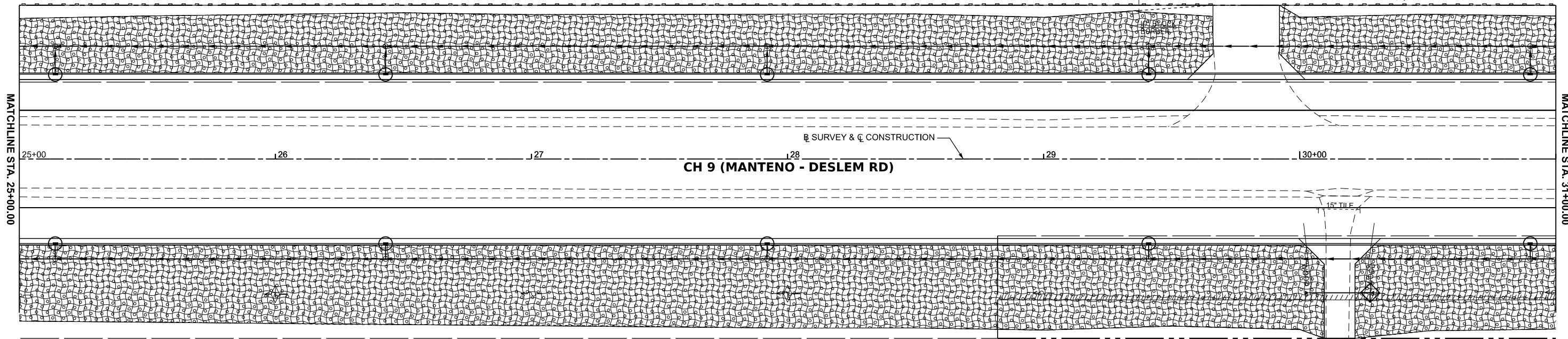
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PLOT DATE = 3/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
EROSION CONTROL PLAN**

SCALE: 1"=20' SHEET 1 OF 5 SHEETS STA. 13+00.00 TO STA. 25+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	113
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				










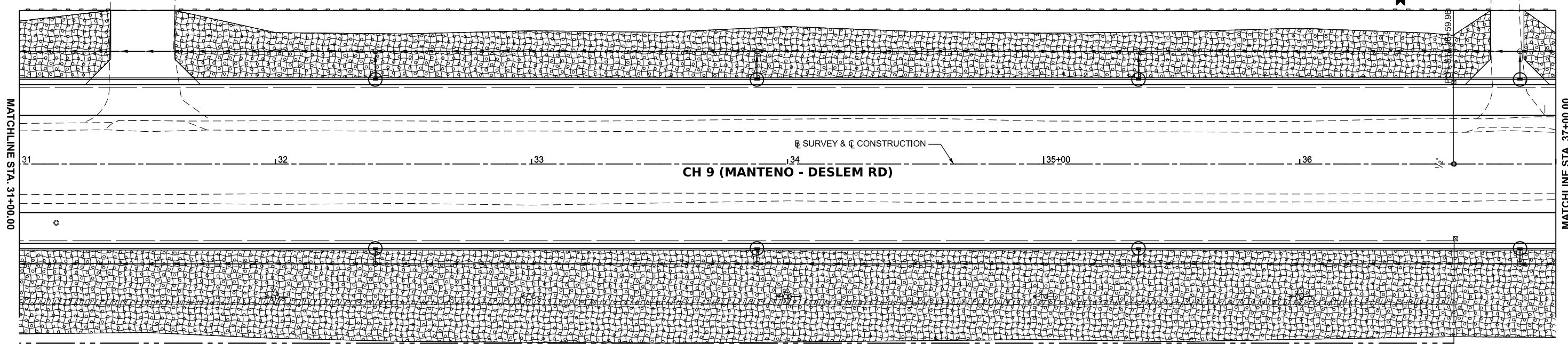
MATCHLINE STA. 31+00.00

MATCHLINE STA. 25+00.00

**CH 9 (MANTENO - DESELM RD)**

**LEGEND**

-  PERIMETER EROSION BARRIER
-  INLET AND PIPE PROTECTION
-  INLET FILTER
-  TEMPORARY DITCH CHECK
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  RIPRAP, A4



MATCHLINE STA. 37+00.00

MATCHLINE STA. 31+00.00

**CH 9 (MANTENO - DESELM RD)**

MODEL: \$MODELNAMES  
FILE NAME: Y:\31051 - Manteno-Deselm\_Recon\CADD\CADD\_Sheets\PHASE III\31051-erros.dgn



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PLOT DATE = 3/21/2024	DATE -	REVISED -

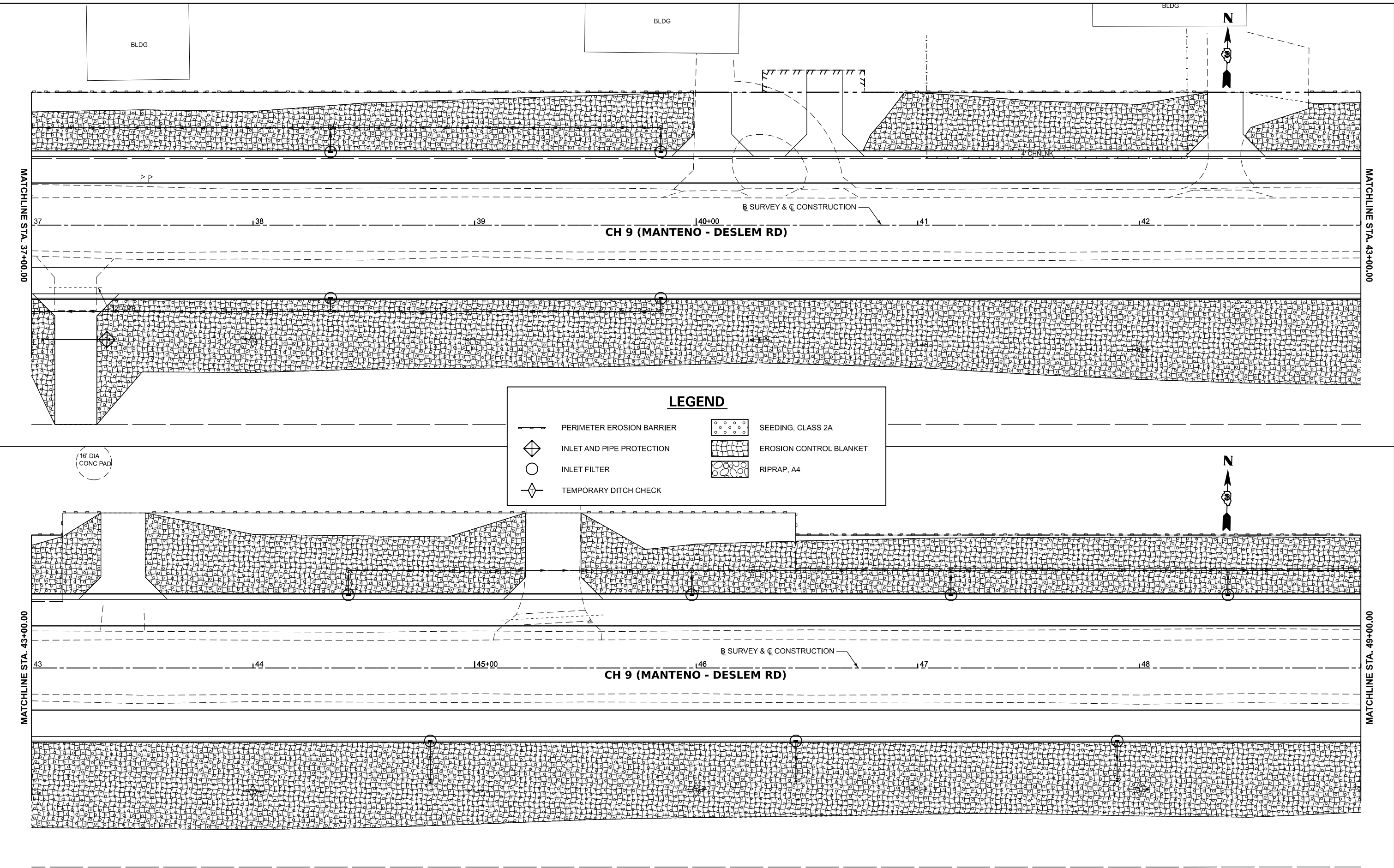
**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
EROSION CONTROL PLAN**

SCALE: 1"=20'    SHEET 2 OF 5 SHEETS    STA. 25+00.00 TO STA. 37+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	114
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

MODEL: \$MODELNAMES  
FILE NAME: Y:\31051 - Manteno-Deselm - Recon\CADD\CADD Sheets\PHASE II\31051-sht-eros.dgn



**LEGEND**

	PERIMETER EROSION BARRIER		SEEDING, CLASS 2A
	INLET AND PIPE PROTECTION		EROSION CONTROL BLANKET
	INLET FILTER		RIPRAP, A4
	TEMPORARY DITCH CHECK		



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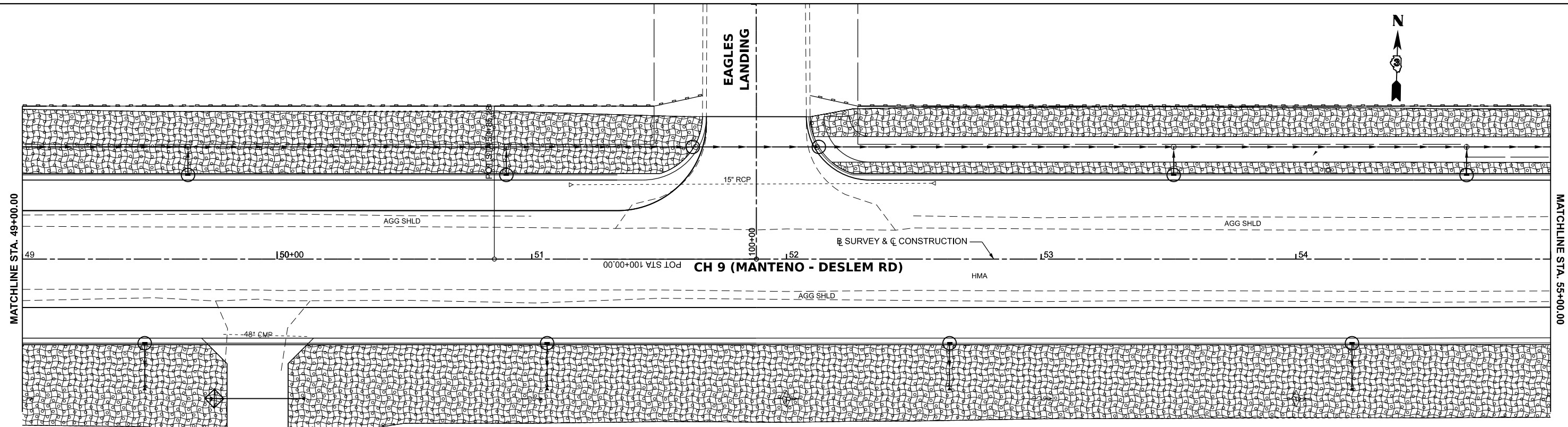
**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
EROSION CONTROL PLAN**

SCALE: 1"=20'      SHEET 3      OF 5      SHEETS      STA. 37+00.00      TO STA. 49+00.00

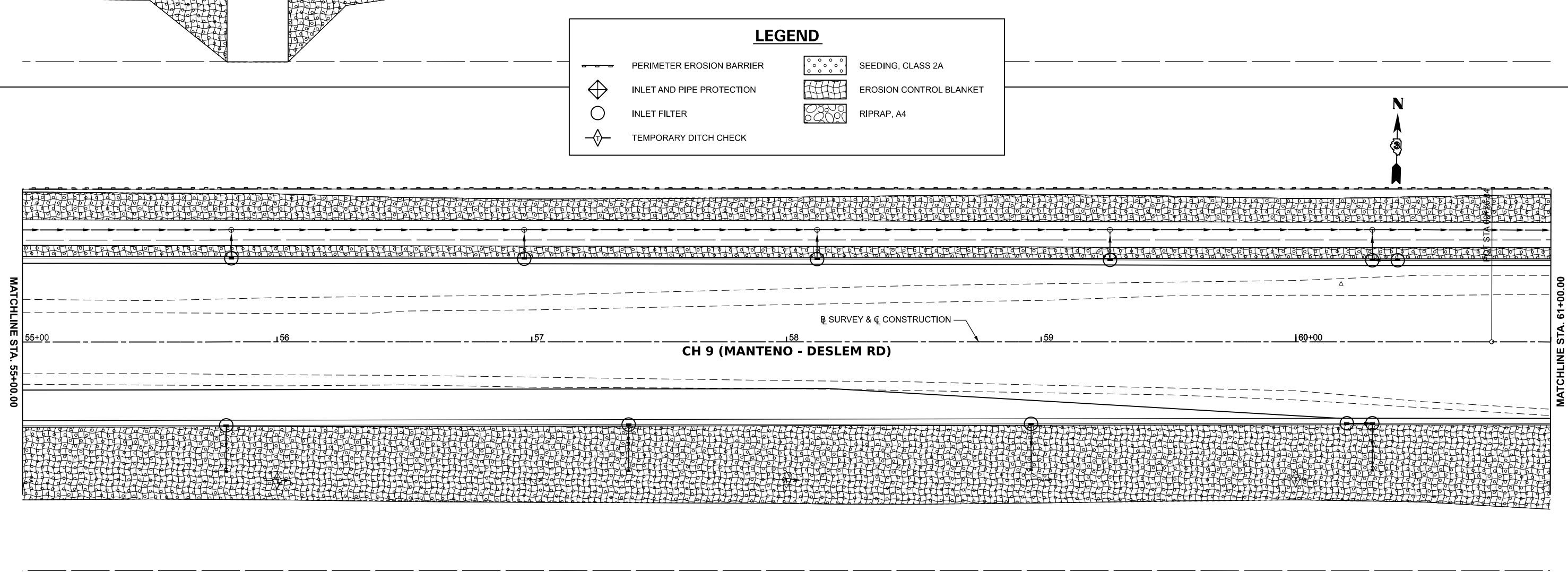
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311	08-00286-00-FP	KANKAKEE	173	115
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

MODEL: \$MODELNAMES  
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**LEGEND**

	PERIMETER EROSION BARRIER		SEEDING, CLASS 2A
	INLET AND PIPE PROTECTION		EROSION CONTROL BLANKET
	INLET FILTER		RIPRAP, A4
	TEMPORARY DITCH CHECK		



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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

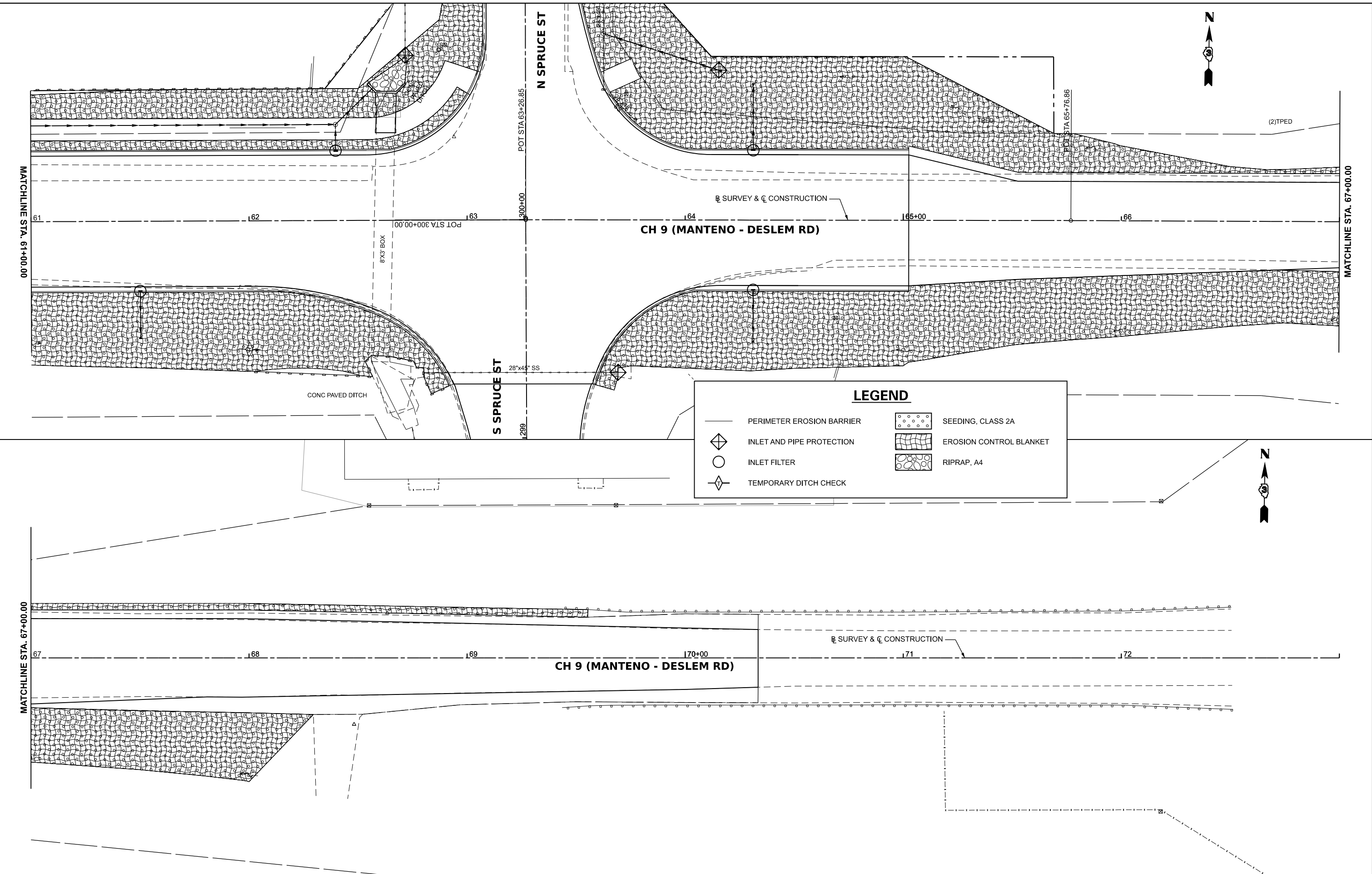
**CH 9 (MANTENO - DESELM RD)  
EROSION CONTROL PLAN**

SCALE: 1"=20'      SHEET 4      OF 5      SHEETS      STA. 49+00.00      TO STA. 61+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	116
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



MODEL: \$MODELNAMES  
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	PLOT DATE = 3/21/2024	DATE -	REVISED -

**KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
 EROSION CONTROL PLAN**

SCALE: 1"=20'      SHEET 5 OF 5 SHEETS      STA. 61+00.00 TO STA. 73+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	117
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

## GENERAL NOTES FOR TRAFFIC SIGNALS

1. THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 3 SHALL BE NOTIFIED AT (815) 434-8506 A MINIMUM OF 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.
2. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. (J.U.L.I.E. (800) 892-0123)
3. ALL DAMAGE TO KANKAKEE COUNTY OR VILLAGE OF MANTENO OWNED UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRICAL CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.
4. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK.
6. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS AND LIGHTING. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY'S REQUIREMENTS FOR THE SERVICE INSTALLATION.
8. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. THIS COST SHALL BE INCLUDED IN THE COST OF THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.
9. THE MAST ARMS SHALL BE LOCATED A MINIMUM OF 6' FROM THE FACE OF THE CURB OR A MINIMUM 18' FROM THE EDGE OF PAVEMENT TO THE FACE OF FOUNDATION WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IN CURB AREA, GET MORE THAN 6' IF POSSIBLE IF THE SIGNAL HEAD STILL LINES UP IN THE CENTER OF LANE. MAST ARM AND SIGNAL POLE LOCATIONS SHALL NOT INTERFERE WITH SIDEWALK OR SHARED-USE PATH.
10. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
11. ALL CONDUIT IN TRENCH SHALL BE P.V.C. ALL CONDUIT PUSHED MAY BE SCHEDULE 80 OR GALVANIZED STEEL AND SHALL BE USED UNDER PAVEMENT, STABILIZED SHOULDER, PAVED MEDIAN, PAVED DRIVEWAY, CURB AND/OR GUTTER, AND SIDEWALK. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.
12. A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED IN THE COST OF THE CONDUIT PAY ITEMS.
13. THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CORD WITHIN THE POLICE DOOR COMPARTMENT. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTROLLER CABINET PAY ITEM.
14. THE SURGE PROTECTOR IN THE CONTROLLER CABINET SHALL HAVE AN INDICATOR LIGHT.
15. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
16. ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATORS ARE LEVEL WITH EACH OTHER AND MAINTAIN A MINIMUM 16.5' CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.
17. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
18. DOUBLE FUSE HOLDERS AND SURGE ARRESTORS ARE TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN THE BASE OF THE COMBINATION MAST ARM, WHICH SHALL BE INCLUDED IN THE LIGHT FIXTURE PAY ITEM. THE LIGHT FIXTURE ON THE COMBINATION MAST ARM SHALL BE ATTACHED TO A 15' ARM UNLESS SPECIFICALLY STATED OTHERWISE ELSEWHERE IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
19. BACKPLATES SHALL BE POLYCARBONATE, LOUVERED FORMED BACKPLATES WITH FLUORESCENT YELLOW SHEETING.
20. THE DOUBLE HANDHOLES SHALL BE FURNISHED WITH RECESSED, INTEGRAL, HINGED LIDS.
21. ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SIEZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY. ALL MAST ARM POLE BASES SHALL BE PROTECTED BY A STAINLESS STEEL MESH SCREENING AROUND THE BASEBOLTS TO PREVENT RODENT ENTRY. THE MESH SHALL BE SECURED TO THE BASE BY STAINLESS STEEL BANDING WHICH IS INCLUDED IN THE INDIVIDUAL MAST ARM ASSEMBLY PAY ITEM.
22. THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET. THE BOTTOM OF THE CONTROLLER CABINET SHALL BE A MINIMUM OF 1' ABOVE THE NEAREST HANDHOLE GRADE.
23. THE ELEVATION OF THE TOP OF THE DOUBLE HANDHOLE SHALL BE LESS THAT THE ELEVATION OF THE TOP OF THE CONTROLLER FOUNDATION.
24. ALL TRAFFIC SIGNALS SHALL HAVE 12-INCH SINGLE LED LENSES.
25. ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.
26. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.
27. THE CONTRACTOR SHALL PROVIDE 3 FEET OF SLACK CABLE IN EACH TRAFFIC SIGNAL STRUCTURE, MAST ARM, POST, CONTROLLER, AND HANDHOLES. THE SLACK, WHICH IS IN ADDITION TO THE VERTICAL LENGTH OF CABLE DEFINED IN THE SPECIFICATIONS, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EACH CABLE. THESE REQUIREMENTS SHALL BE IN ADDITION TO THE EXTRA CABLE REQUIREMENTS AS SPECIFIED IN SECTIONS 871 AND 873 OF THE STANDARD SPECIFICATIONS.
28. THE DOUBLE HANDHOLE SHALL HAVE A 13 FEET OF SLACK IN EACH CABLE NEATLY WOUND ON THE HOOKS. THE CABLE SHALL BE PAID FOR AT ITS INDIVIDUAL UNIT PRICE.
29. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
30. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
31. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLES AND JUNCTION BOXES WILL NOT BE ALLOWED.
32. ALL VEHICLE AND PEDESTRIAN SIGN HEADS SHALL HAVE A POLYCARBONE BLACK HOUSING AND STEEL OR ALUMINUM BRACKETS.
33. ALL UNINTERRUPTABLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHA GUARD MONITORS.
34. ALL GROUNDING MATERIALS FOR THE TRAFFIC SIGNAL CONCRETE FOUNDATIONS SHALL REFER TO SECTION 806 OF THE STANDARD SPECIFICATIONS.
35. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER. SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.
36. ALL WORK PERFORMED RELATIVE TO THIS IMPROVEMENT SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF O.S.H.A.
37. THE QUANTITIES PROVIDED IN THE PLANS ARE INTENDED AS A GUIDE FOR THE CONTRACTOR IN DETERMINING THE SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL MATERIAL QUANTITIES AND EVALUATING SITE CONDITIONS. NO CLAIMS FOR EXTRA WORK WILL BE AWARDED UNLESS ORDERED IN WRITING BY THE ENGINEER.
38. ALL HANDHOLES AND DOUBLE HANDHOLES INSTALLED CLOSED TO THE ROADWAY SHALL OPEN UP TOWARDS THE ROADWAY SO THE ELECTRICAL MAINTAINER IS NOT EXPOSED TO TRAFFIC WHILE WORKING.
39. ALL TRAFFIC SIGNAL CONTROLLERS SHALL INCLUDE NTCIP.
40. ONE WEEK PRIOR TO SIGNAL TURN-ON FOR ALL DIRECTIONS, THE CHANGEABLE MESSAGE SIGNS SHOULD READ "NEW SIGNAL AHEAD / TURN ON DATE" FOR THREE WEEKS. AFTER THE SIGNALS ARE TURNED ON THE MESSAGE SIGN SHOULD READ "NEW SIGNAL AHEAD / BE PREPARED TO STOP" FOR FOUR WEEKS.

MODEL: \$MODELNAME\$ FILE NAME: Y:\315051-1-Manteno-DeSelm\_Recon\CADD\CADD Sheets\PHASE II\315051-1-shts.dgn



USER NAME = BDeCrane	DESIGNED -	REVISED -
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

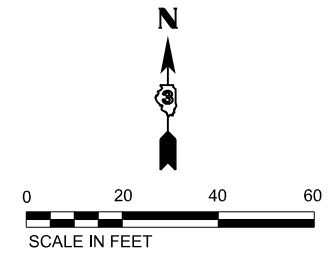
**CH 9 (MANTENO - DESELM RD)  
TRAFFIC SIGNAL GENERAL NOTES**

SCALE: N/A SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	118
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

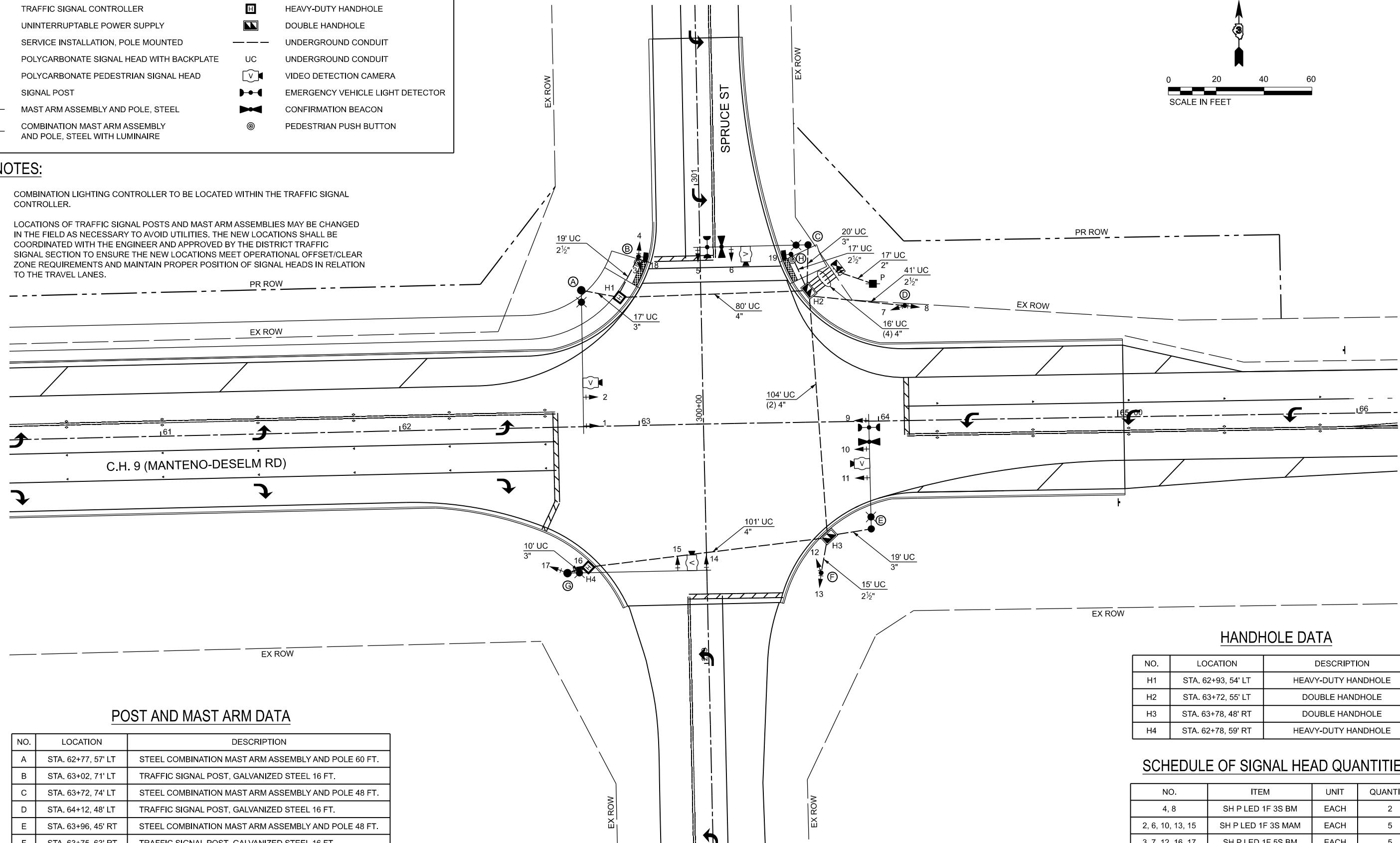
## TRAFFIC SIGNAL LEGEND

<p><b>PROPOSED</b></p> <ul style="list-style-type: none"> <li> TRAFFIC SIGNAL CONTROLLER</li> <li> UNINTERRUPTIBLE POWER SUPPLY</li> <li> SERVICE INSTALLATION, POLE MOUNTED</li> <li> POLYCARBONATE SIGNAL HEAD WITH BACKPLATE</li> <li> POLYCARBONATE PEDESTRIAN SIGNAL HEAD</li> <li> SIGNAL POST</li> <li> MAST ARM ASSEMBLY AND POLE, STEEL</li> <li> COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE</li> </ul>	<p><b>PROPOSED</b></p> <ul style="list-style-type: none"> <li> HEAVY-DUTY HANDHOLE</li> <li> DOUBLE HANDHOLE</li> <li> UNDERGROUND CONDUIT</li> <li> UNDERGROUND CONDUIT</li> <li> VIDEO DETECTION CAMERA</li> <li> EMERGENCY VEHICLE LIGHT DETECTOR</li> <li> CONFIRMATION BEACON</li> <li> PEDESTRIAN PUSH BUTTON</li> </ul>
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### NOTES:

1. COMBINATION LIGHTING CONTROLLER TO BE LOCATED WITHIN THE TRAFFIC SIGNAL CONTROLLER.
2. LOCATIONS OF TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES MAY BE CHANGED IN THE FIELD AS NECESSARY TO AVOID UTILITIES. THE NEW LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER AND APPROVED BY THE DISTRICT TRAFFIC SIGNAL SECTION TO ENSURE THE NEW LOCATIONS MEET OPERATIONAL OFFSET/CLEAR ZONE REQUIREMENTS AND MAINTAIN PROPER POSITION OF SIGNAL HEADS IN RELATION TO THE TRAVEL LANES.



### POST AND MAST ARM DATA

NO.	LOCATION	DESCRIPTION
A	STA. 62+77, 57' LT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.
B	STA. 63+02, 71' LT	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
C	STA. 63+72, 74' LT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.
D	STA. 64+12, 48' LT	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
E	STA. 63+96, 45' RT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.
F	STA. 63+75, 63' RT	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
G	STA. 62+69, 61' RT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.
H	STA. 63+65, 70' LT	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.

### HANDHOLE DATA

NO.	LOCATION	DESCRIPTION
H1	STA. 62+93, 54' LT	HEAVY-DUTY HANDHOLE
H2	STA. 63+72, 55' LT	DOUBLE HANDHOLE
H3	STA. 63+78, 48' RT	DOUBLE HANDHOLE
H4	STA. 62+78, 59' RT	HEAVY-DUTY HANDHOLE

### SCHEDULE OF SIGNAL HEAD QUANTITIES

NO.	ITEM	UNIT	QUANTITY
4, 8	SH P LED 1F 3S BM	EACH	2
2, 6, 10, 13, 15	SH P LED 1F 3S MAM	EACH	5
3, 7, 12, 16, 17	SH P LED 1F 5S BM	EACH	5
1, 5, 9, 11, 14	SH P LED 1F 5S MAM	EACH	5
18, 19	PED SH P LED 1F BM CT	EACH	2

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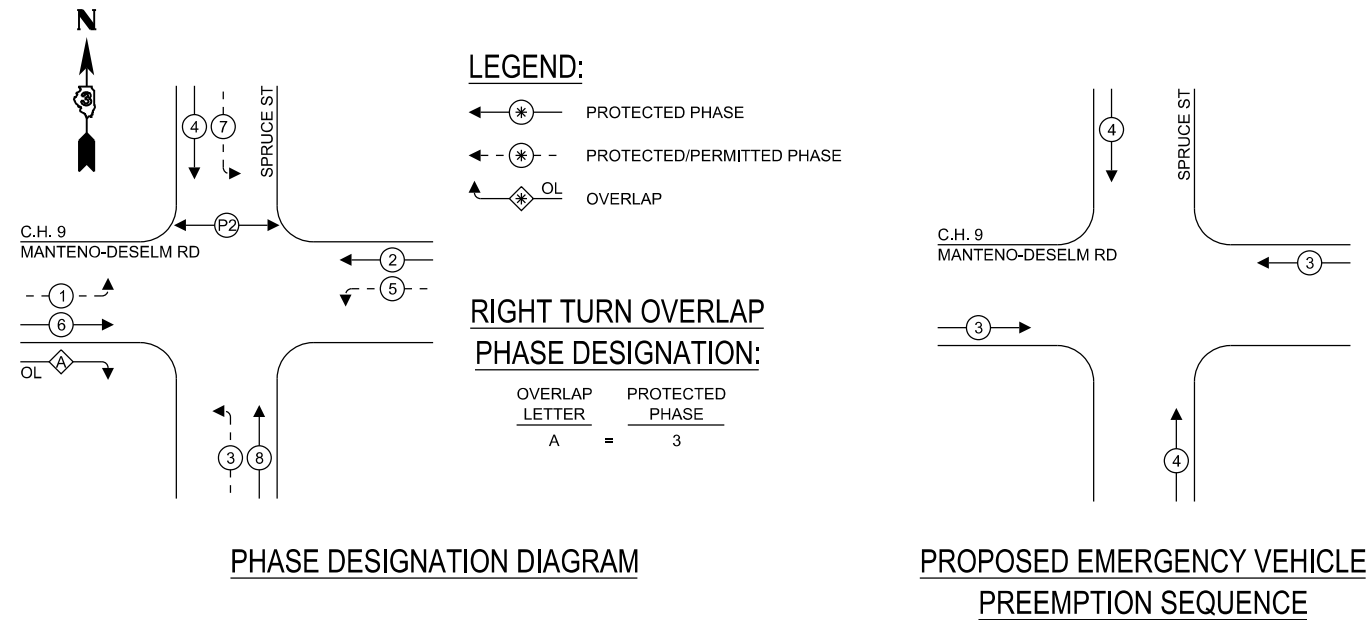
**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
TRAFFIC SIGNAL PLAN**

SCALE: N/A    SHEET 2 OF 5 SHEETS    STA.    TO STA.

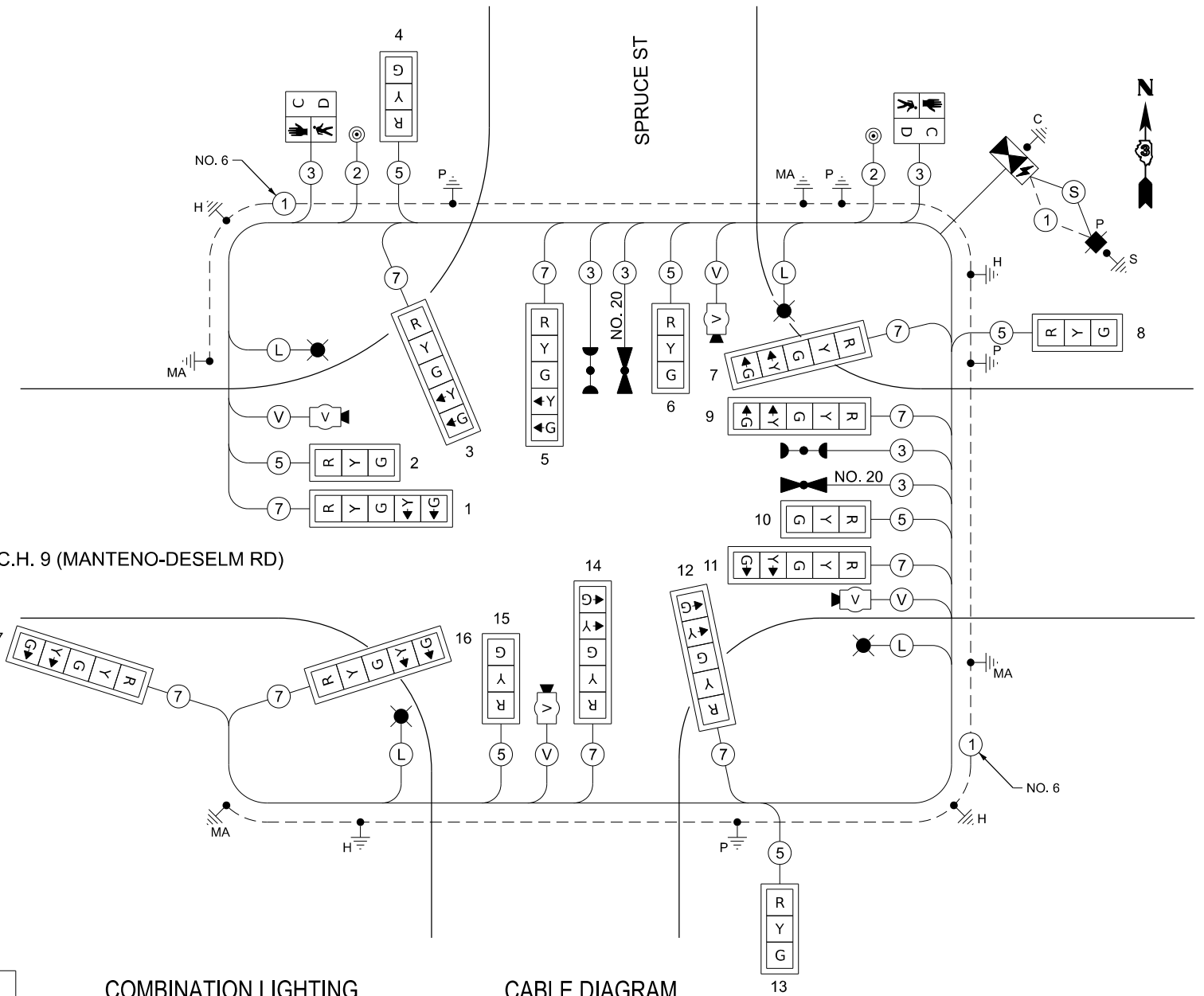
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	119
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

**CONTROLLER SEQUENCE**



**NOTES:**

1. A SELF ADHERING PHASING DIAGRAM SHALL BE PLACED INSIDE THE DOOR.

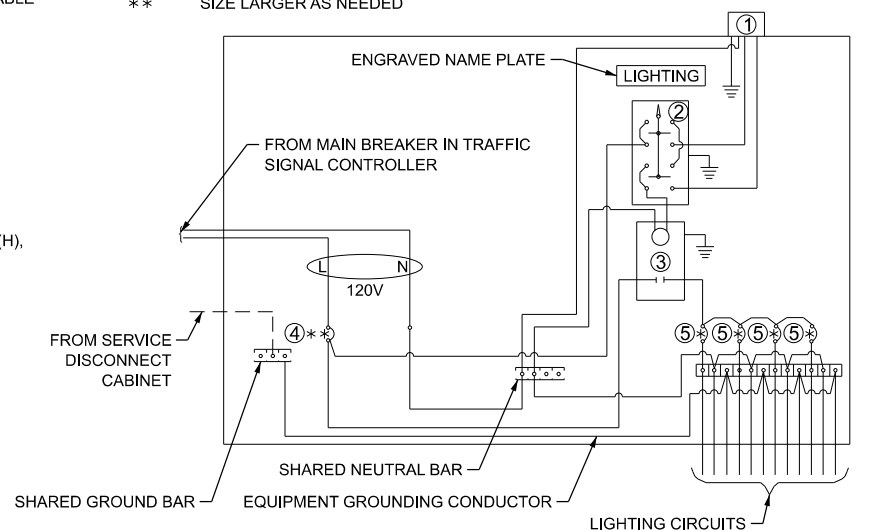


**CABLE DIAGRAM LEGEND**

- TRAFFIC SIGNAL CONTROLLER
- UNINTERRUPTIBLE POWER SUPPLY
- SERVICE INSTALLATION, POLE MOUNTED
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- PEDESTRIAN SIGNAL HEAD W/ COUNTDOWN TIMER
- PEDESTRIAN PUSH BUTTON
- DENOTES NUMBER OF CONDUCTORS ON NO. 14 ELECTRIC CABLE
- LUMINAIRE, LED
- VIDEO CAMERA
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), CONTROLLER (C), OR LIGHTING CONTROLLER (L)
- GROUND ROD AT POST (P) OR MAST ARM (MA)
- GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- SERVICE CABLE
- ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
- LIGHTING CABLE
- ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C, NO. 10
- VIDEO CABLE
- SEE SPECIAL PROVISION FOR VIDEO VEHICLE DETECTION SYSTEM

**COMBINATION LIGHTING CONTROLLER LEGEND**

- GROUND CONNECTED TO SHARED GROUND BAR
- INDICATED SHARED WITH TRAFFIC SIGNAL CONTROLLER EQUIPMENT
- PHOTOCELL WITH INTEGRAL SURGE ARRESTER
- HAND-OFF-AUTO SELECTOR SWITCH
- 30 AMP, 1 POLE ELECTRICALLY HELD CONTACTOR
- 30 AMP, 1 POLE, CIRCUIT BREAKER
- 15 AMP, 1 POLE, BRANCH BREAKER
- QUANTITY OF BRANCH BREAKERS SHALL DEPEND ON THE COMBINATION LIGHTING CIRCUIT DIAGRAM OR AS DIRECTED BY THE ENGINEER
- SIZE LARGER AS NEEDED



**COMBINATION LIGHTING CONTROLLER GENERAL NOTES**

ALL CONTROL INSTALLATION COMPONENTS SHALL BE U.L. LISTED.

ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED.

THE CIRCUIT BREAKER SHALL BE CLEARLY LABELED FOR LIGHTING ACCORDING TO ARTICLE 1068.01 (F) OF THE STANDARD SPECIFICATIONS.

INSTALL UNDER EAVE PHOTOCELL ON TRAFFIC SIGNAL CONTROLLER CABINET PER ARTICLE 1068.01(E)(2) OF THE STANDARD SPECIFICATIONS.

ALL LIGHTING EQUIPMENT SHALL BE INSTALLED ON A SIDE MOUNTED INSULATED SUBPANEL PER ARTICLE 1068.01(E)(9) OF THE STANDARD SPECIFICATIONS ON THE LOWER RIGHT HAND SIDE OF THE TRAFFIC SIGNAL CONTROLLER OR AS DIRECTED BY THE ENGINEER.

PROVIDE AN ENGRAVED STAINLESS STEEL NAMEPLATE ON THE SUB PANEL READING "LIGHTING".

MODEL: \$MODEL\$  
FILE NAME: Y:\31051 - Manteno-DeSelm Recon\CADD\CADD Sheets\PHASE II\31051-shfts.dgn



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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELN RD)  
TRAFFIC SIGNAL PLAN**

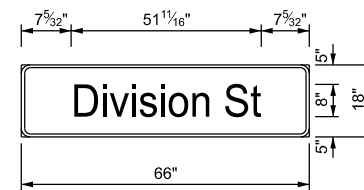
SCALE: N/A      SHEET 3      OF 5      SHEETS      STA.      TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	120
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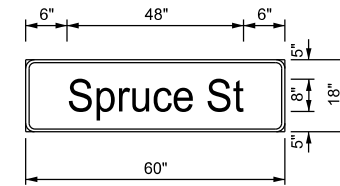
BILL OF MATERIALS - C.H. 9 (MANTENO-DESELM ROAD) AT SPRUCE STREET

TRAFFIC SIGNAL SUMMARY OF QUANTITIES			
CODE NO.	DESCRIPTION	UNIT	QUANTITY
7200100	SIGN PANEL - TYPE 1	SQ FT	52
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	389
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	17
81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	92
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	66
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	64
81400710	HEAVY-DUTY HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	603
82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	4
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	221
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	601
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1238
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1957
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	62
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	525
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	2
87703030	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	2
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
88700200	LIGHT DETECTOR	EACH	4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	379
X1400318	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC, SPECIAL	EACH	17
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
X8870510	CONFIRMATION BEACON	EACH	4
X8891001	VIDEO VEHICLE DETECTION SYSTEM	EACH	1
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4
Z0073509	PERMANENT TRAFFIC SIGNAL TIMING	EACH	1

STREET NAME SIGN DETAIL



8.25 SQ FT EACH (2) REQUIRED



7.5 SQ FT EACH (2) REQUIRED

NOTES:

- TYPE ZZ SHEETING REQUIRED.
- WHITE LETTERING ON GREEN BACKGROUND.
- 3/8" WHITE BORDER.
- DESIGN SERIES D.
- 8" HIGH UPPERCASE, 6" HIGH LOWERCASE LETTERING.

PEDESTRIAN CROSSING SIGN

COUNT-DOWN PEDESTRIAN SIGN R10-3e TO BE USED.

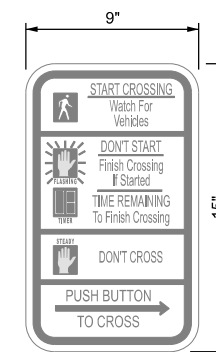
0.94 SQ FT EACH, (2) REQUIRED.

DIMENSIONS: 9" x 15" (TYP.)  
 LEGEND AND BORDER: NON-REFLECTORIZED BLACK  
 BACKGROUND: RETROREFLECTIVE WHITE  
 UPRAISED HAND SYMBOL  
 TIMER: RETROREFLECTIVE ORANGE ON BLACK  
 PEDESTRIAN SYMBOL: RETROREFLECTIVE WHITE ON BLACK

ONE SIGN SHALL BE PROVIDED FOR EACH ACCESSIBLE PEDESTRIAN SIGNAL. ORIENTATION OF DIRECTIONAL ARROWS TO BE DETERMINED BY ACCESSIBLE PEDESTRIAN SIGNAL LOCATION.

ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL CONSTRUCTION. ALL MOUNTING BOLTS SHALL BE HEX HEAD.

MATERIALS AND INSTALLATION OF THIS SIGN SHALL BE INCLUDED IN THE COST OF ACCESSIBLE PEDESTRIAN SIGNALS.



N.T.S.

C.H. 9 (MANTENO-DESELM ROAD) AT SPRUCE STREET ELECTRICAL LOAD CHART

MANTENO-DESELM RD INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)	TOTAL WATTAGE
RED	9	12.0	50	54.0
YELLOW	9	32.0	25	72.0
GREEN	9	12.0	25	27.0
YELLOW ARROW	6	12.0	10	7.2
GREEN ARROW	6	11.0	10	6.6
PED SIGNAL - WALK	2	7.0	5	0.7
PED SIGNAL - DON'T WALK	2	7.0	95	13.3

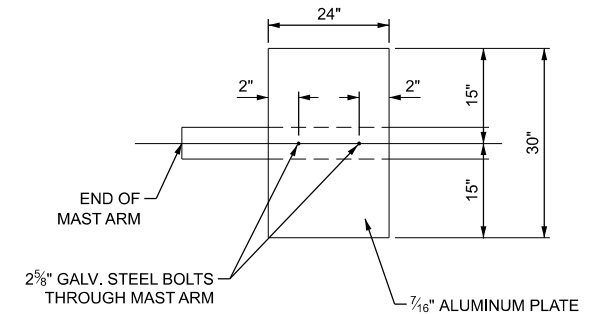
SPRUCE ST INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)	TOTAL WATTAGE
RED	8	12.0	50	48.0
YELLOW	8	32.0	25	64.0
GREEN	8	12.0	25	24.0
YELLOW ARROW	4	12.0	10	4.8
GREEN ARROW	4	11.0	10	4.4

TRAFFIC SIGNAL CABINET ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)	TOTAL WATTAGE
CONTROLLER	1	100.0	100	100.0
VIDEO VEHICLE DETECTION SYSTEM	1	150.0	100	150.0
UNINTERRUPTABLE POWER SUPPLY	1	50.0	100	50.0

HIGHWAY LIGHTING ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)	TOTAL WATTAGE
CONTROLLER	1	6.0	100	6.0
LUMINAIRE	4	194.0	45	349.2

TOTAL = 981.2

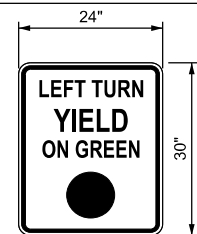
AGENCY RESPONSIBLE FOR CHARGES: KANKAKEE COUNTY HIGHWAY DEPARTMENT



DAMPENING PLATE DETAIL

(TOP VIEW) INCIDENTAL TO MAST ARM QUANTITY

DAMPENING DEVICE SHALL CONSIST OF A 24" x 30" TYPE I, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF DAMPENING DEVICE SHALL BE INCLUDED IN THE MAST ARM PAY ITEM.



N.T.S.  
 R10-12  
 TYPE AP SHEETING REQUIRED  
 5.0 SQ FT EACH (4) REQUIRED

LEFT TURN CONTROL SIGN DETAIL

THIS SIGN SHALL BE LOCATED 6 TO 12 INCHES TO THE RIGHT OF THE MAST ARM MOUNTED LEFT SUGN LANE SIGNAL HEAD.

MODEL: \$MODEL\$NAMES  
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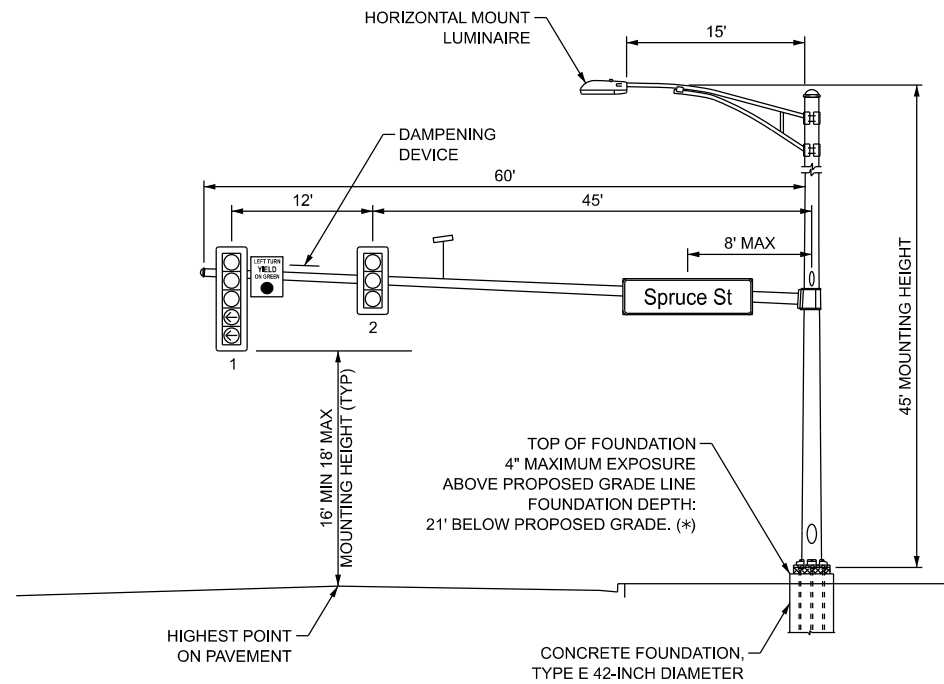
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	DATE -	REVISED -

KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT

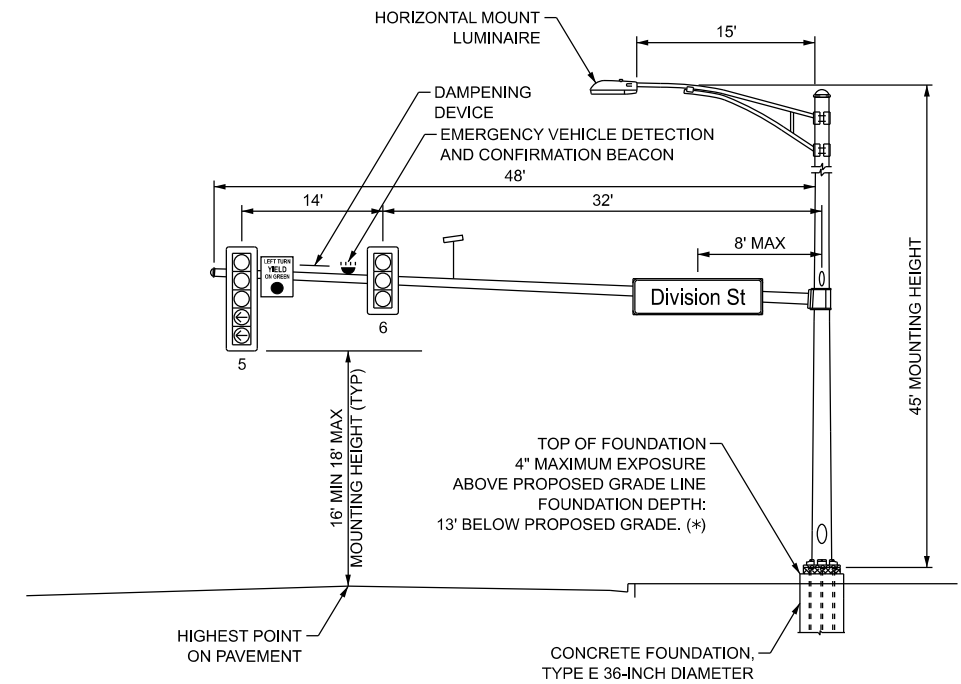
CH 9 (MANTENO - DESELM RD)  
 TRAFFIC SIGNAL PLAN

SCALE: N/A SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	121
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

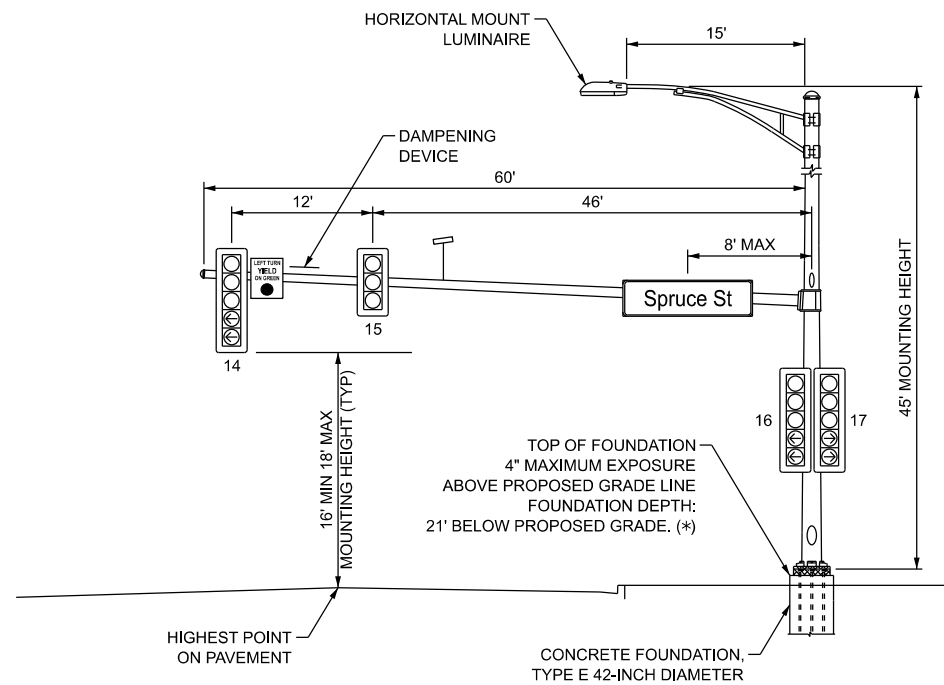


**NORTHWEST QUADRANT**

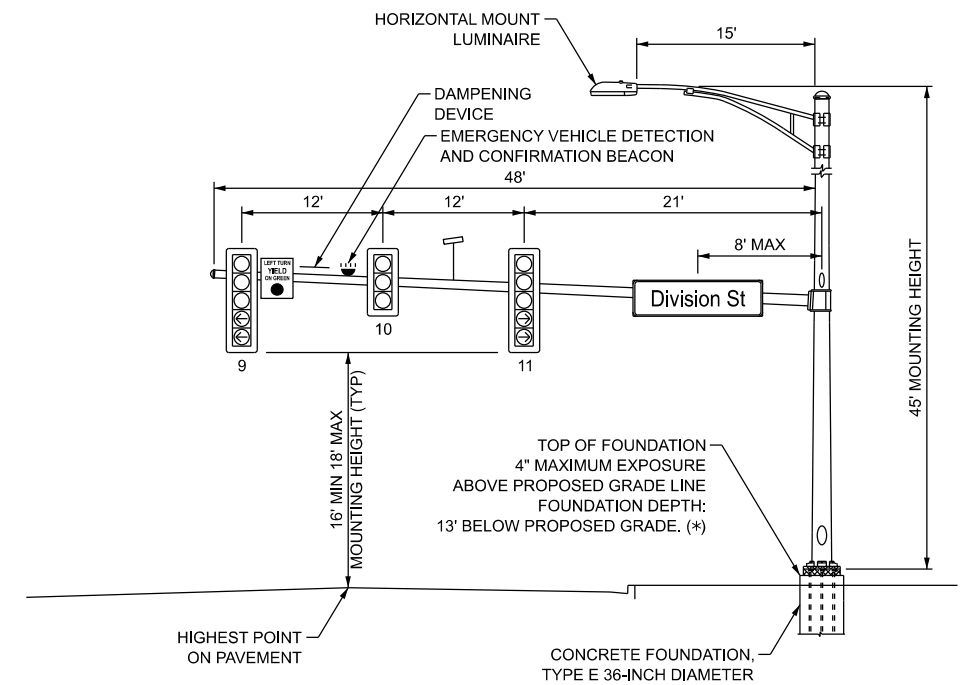


**NORTHEAST QUADRANT**

(\*) FOUNDATION DEPTHS ARE BASED ON THE TABLE INCLUDED IN HIGHWAY STANDARD 878001 WHICH ARE DESIGNED FOR SOILS WITH AN AVERAGE UNCONFINED COMPRESSIVE STRENGTH GREATER THAN 1.0 TSF. PRIOR TO FOUNDATION INSTALLATION, THE CONTRACTOR SHALL VERIFY THE SOIL STRENGTH TO THE DEPTH OF THE FOUNDATION AT EACH PROPOSED LOCATION.



**SOUTHWEST QUADRANT**



**SOUTHEAST QUADRANT**

**NOTES:**

1. MAST ARM MOUNTED SIGNAL HEADS SHALL HAVE POLYCARBONATE, LOUVERED FORMED BACKPLATES WITH FLUORESCENT YELLOW SHEETING.
2. TOP OF FOUNDATION SHALL NOT BE EXPOSED MORE THAN 4 INCHES ABOVE THE SURROUNDING GRADE LINE IN ACCORDANCE WITH HIGHWAY STANDARD 878001.
3. TOP OF FOUNDATION SHOULD BE 2 INCHES ABOVE TOP OF CURB OR 1 FOOT ABOVE CENTERLINE OF THE ROADWAY, WHICHEVER IS HIGHER.

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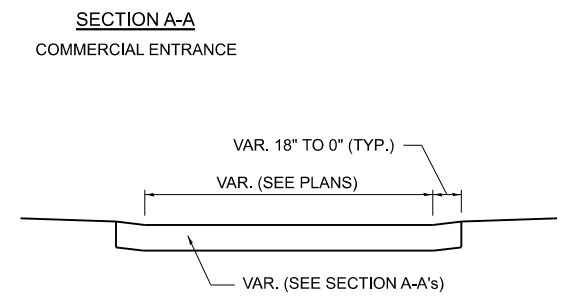
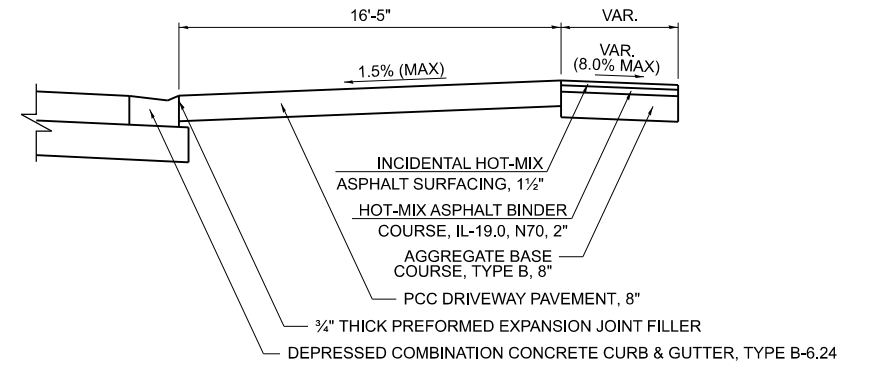
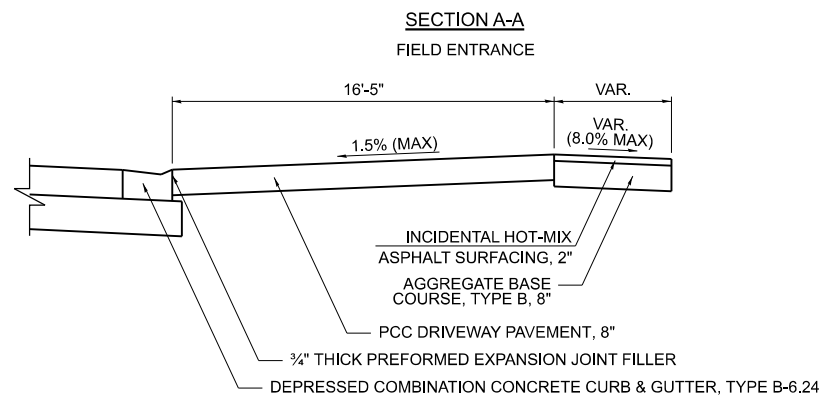
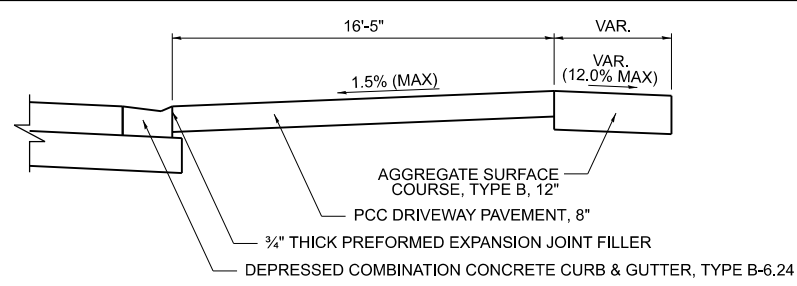
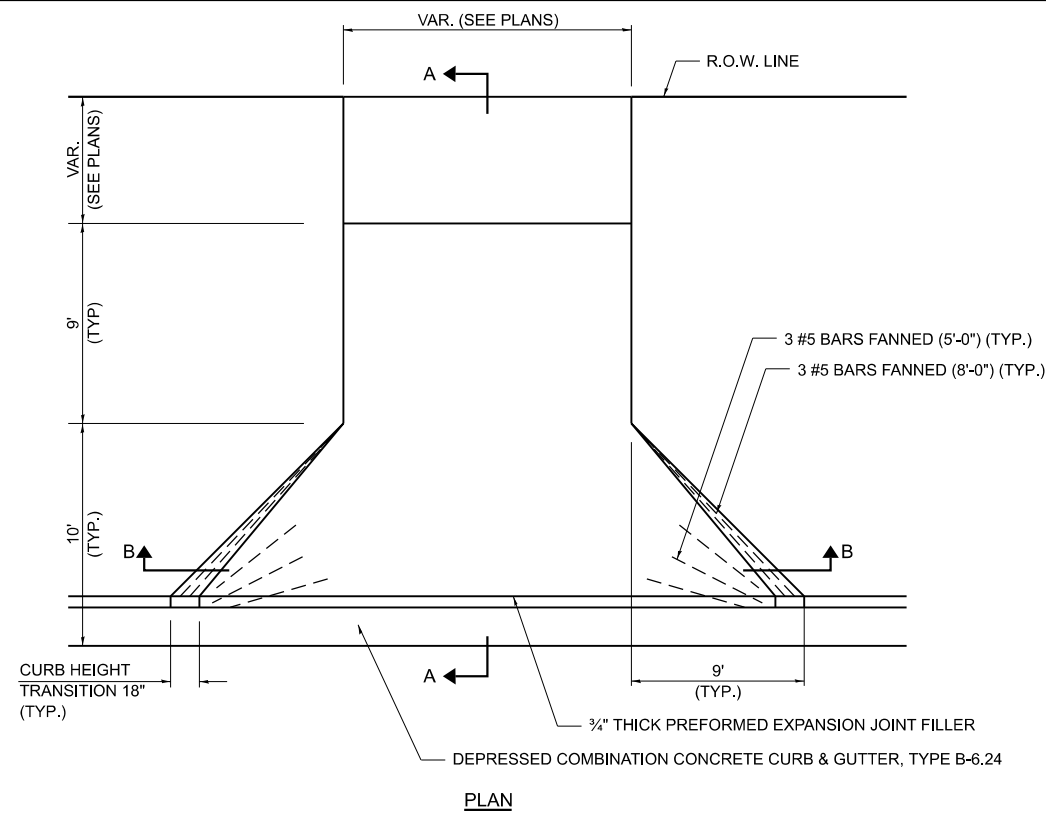
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PLOT DATE = 3/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
 TRAFFIC SIGNAL PLAN**

SCALE: N/A SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	122
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



**FIELD/PRIVATE/COMMERCIAL ENTRANCES  
NORTH (LEFT) SIDE \***

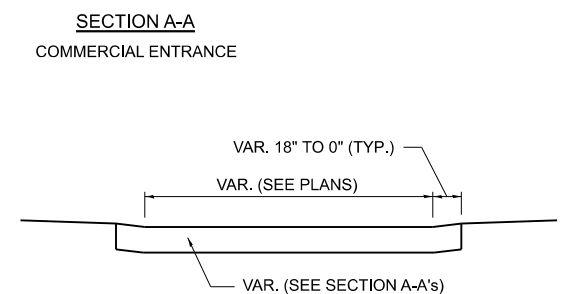
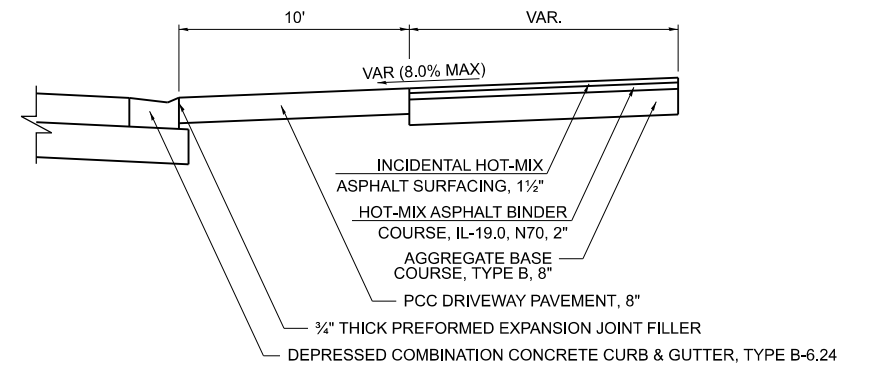
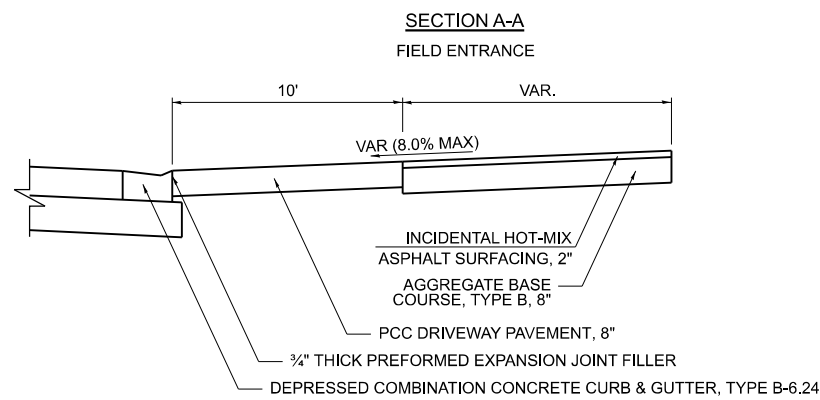
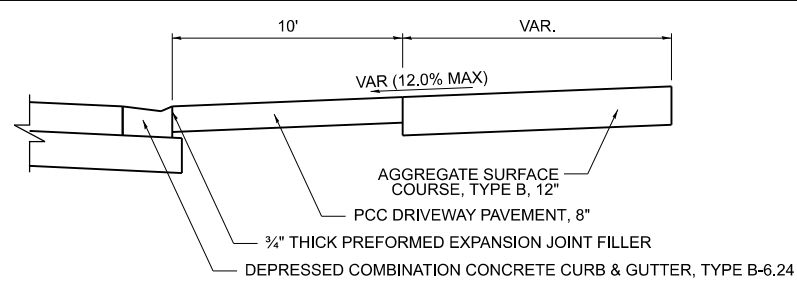
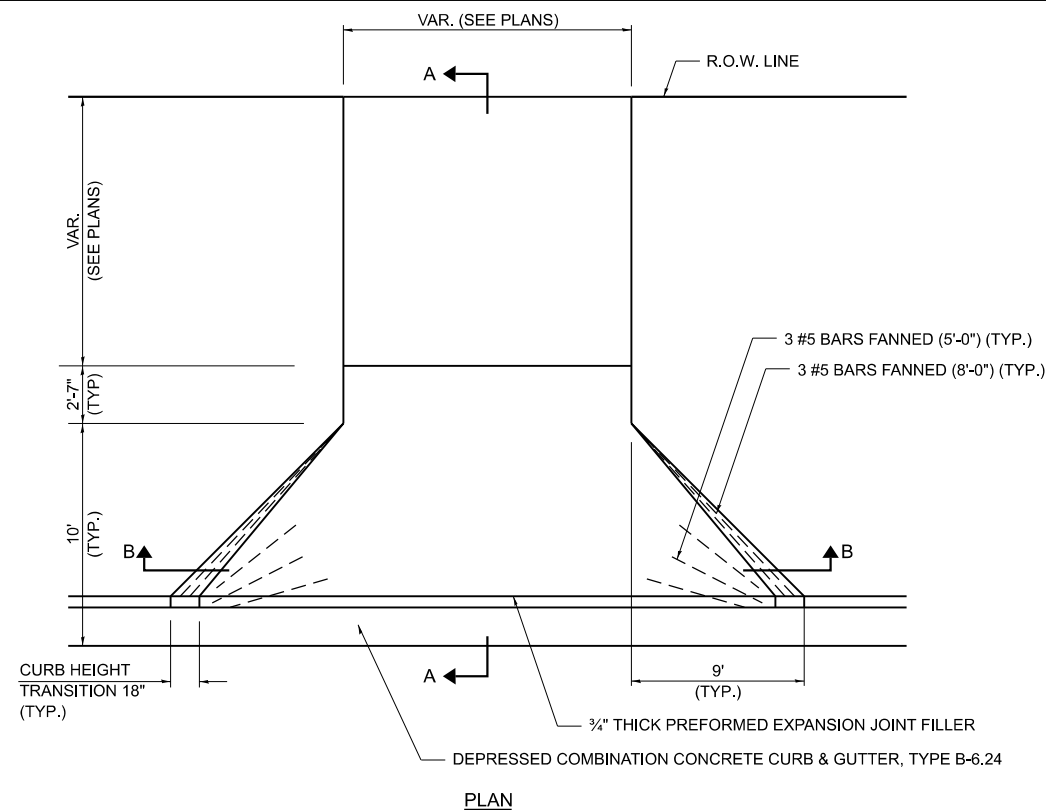
\* EXCLUDING STA. 40+57.93. SEE NEXT DETAIL SHEET

**NOTES:**

THE COST OF FURNISHING AND INSTALLING THE 1/4" PREFORMED EXPANSION JOINT FILLER AND REINFORCEMENT BARS SHALL BE INCLUDED IN THE COST OF PCC DRIVEWAY PAVEMENT.

FOR ENTRANCES ≥ 16' WIDE PROVIDE A SAWED LONGITUDINAL JOINT AT ON-HALF WIDTH. THE COST OF CONSTRUCTING THE JOINT SHALL BE INCLUDED IN THE COST OF THE PCC DRIVEWAY PAVEMENT.

SEE CROSS SECTIONS FOR MORE INFORMATION.



**FIELD/PRIVATE/COMMERCIAL ENTRANCES  
SOUTH (RIGHT) SIDE**

**NOTES:**

THE COST OF FURNISHING AND INSTALLING THE 1/4" PREFORMED EXPANSION JOINT FILLER AND REINFORCEMENT BARS SHALL BE INCLUDED IN THE COST OF PCC DRIVEWAY PAVEMENT.

FOR ENTRANCES ≥ 16' WIDE PROVIDE A SAWED LONGITUDINAL JOINT AT ON-HALF WIDTH. THE COST OF CONSTRUCTING THE JOINT SHALL BE INCLUDED IN THE COST OF THE PCC DRIVEWAY PAVEMENT.

SEE CROSS SECTIONS FOR MORE INFORMATION.

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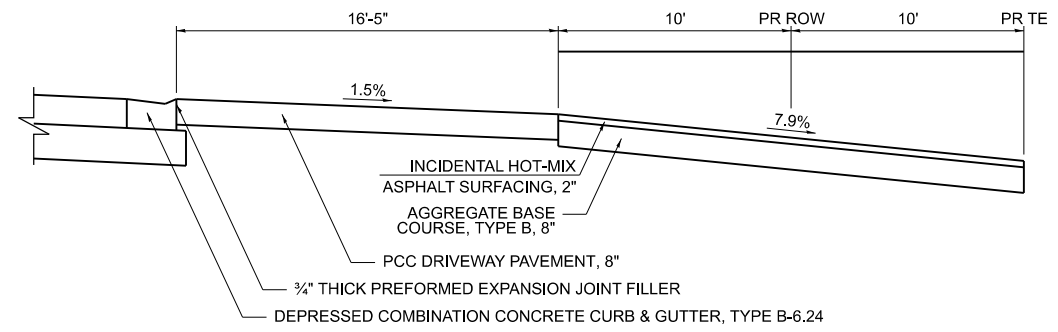
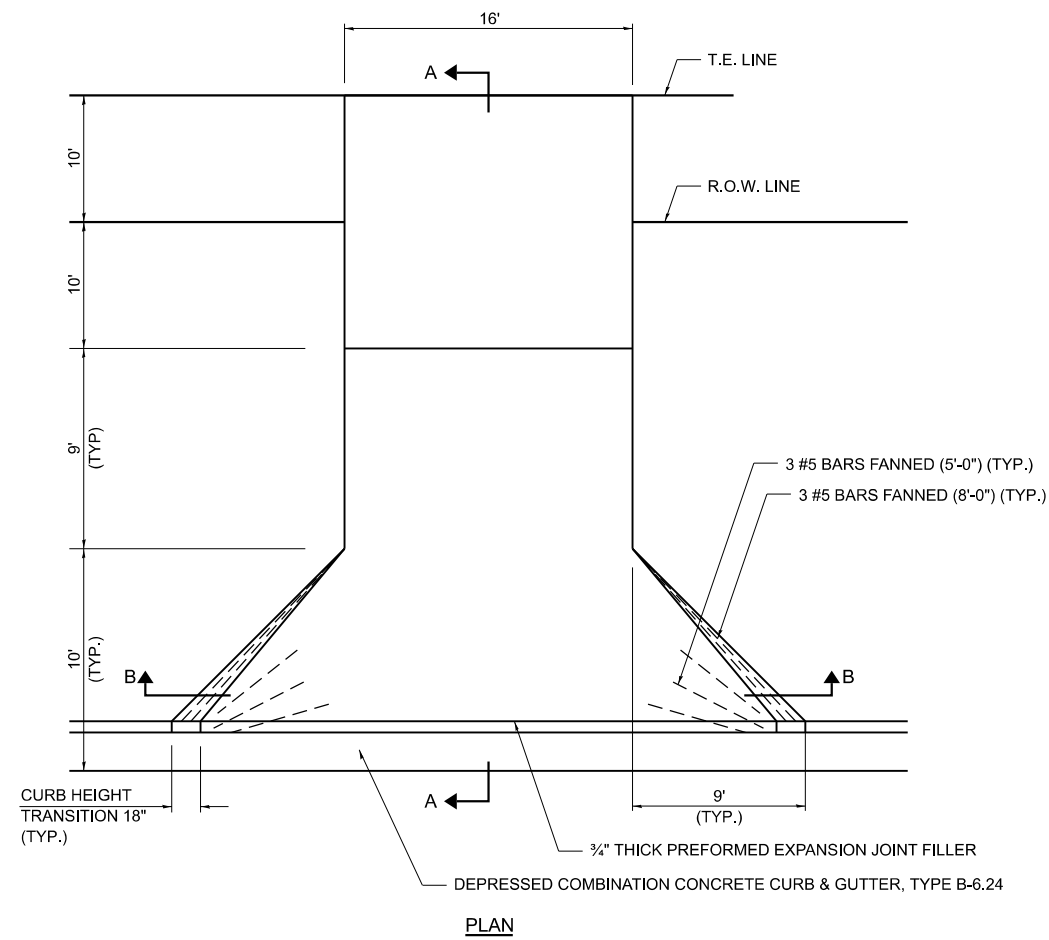
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PLOT DATE = 3/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

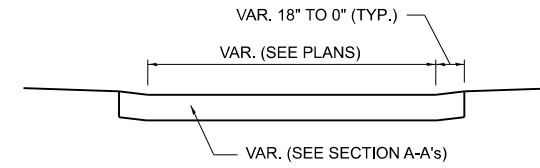
**CH 9 (MANTENO - DESELM RD)  
ENTRANCE DETAILS**

SCALE: N/A SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	123
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



SECTION A-A  
PRIVATE ENTRANCE



SECTION B-B  
ALL ENTRANCES

NOTES:

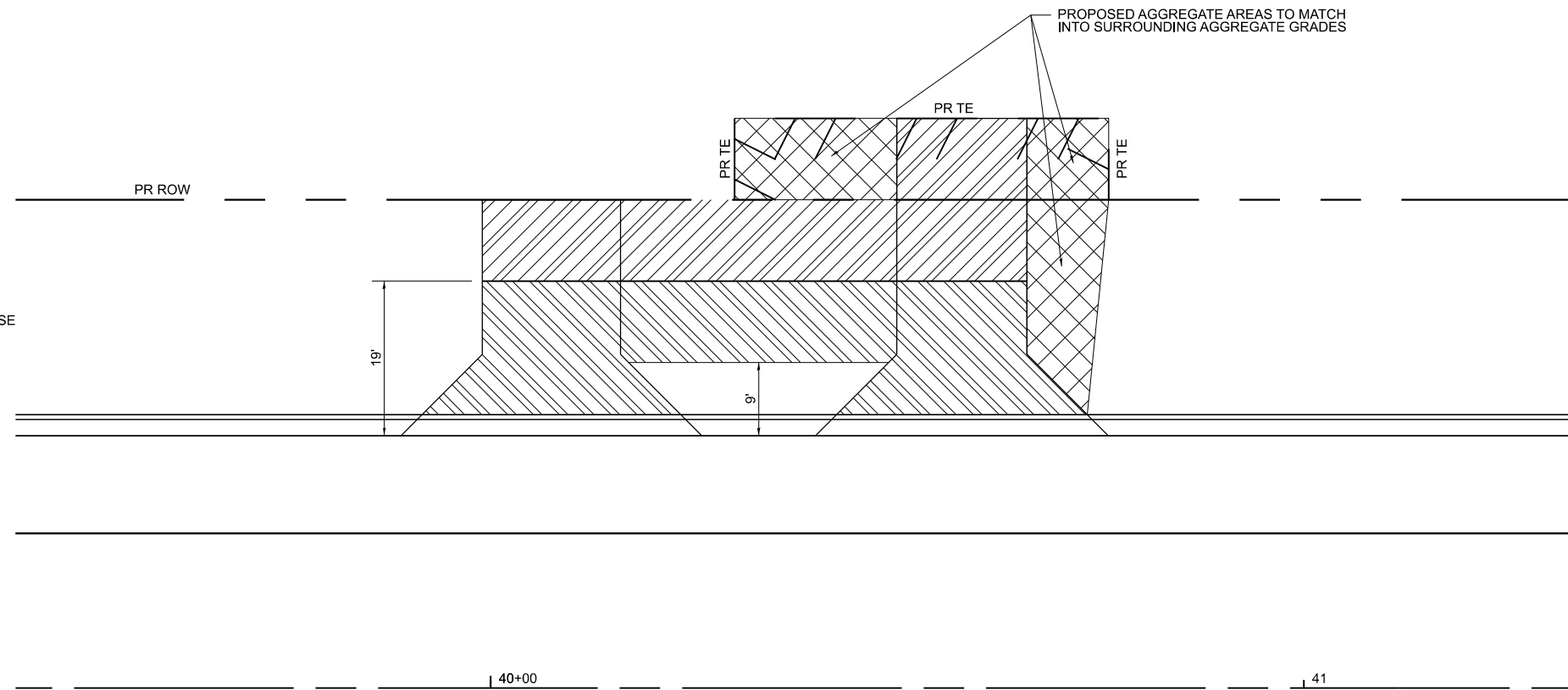
THE COST OF FURNISHING AND INSTALLING THE 1/4" PREFORMED EXPANSION JOINT FILLER AND REINFORCEMENT BARS SHALL BE INCLUDED IN THE COST OF PCC DRIVEWAY PAVEMENT.

FOR ENTRANCES ≥ 16' WIDE PROVIDE A SAWED LONGITUDINAL JOINT AT ON-HALF WIDTH. THE COST OF CONSTRUCTING THE JOINT SHALL BE INCLUDED IN THE COST OF THE PCC DRIVEWAY PAVEMENT.

SEE CROSS SECTIONS FOR MORE INFORMATION.

SEE ROW PLAT FOR MORE INFORMATION.

- PROPOSED AGGREGATE SURFACE COURSE
- PROPOSED HOT-MIX ASPHALT
- PROPOSED PCC



STA. 40+57.93 ENTRANCE DETAIL

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PLOT DATE = 3/26/2024	CHECKED -	REVISED -
	DATE -	REVISED -

KANKAKEE COUNTY  
HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
ENTRANCE DETAILS

SCALE: N/A SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	124
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



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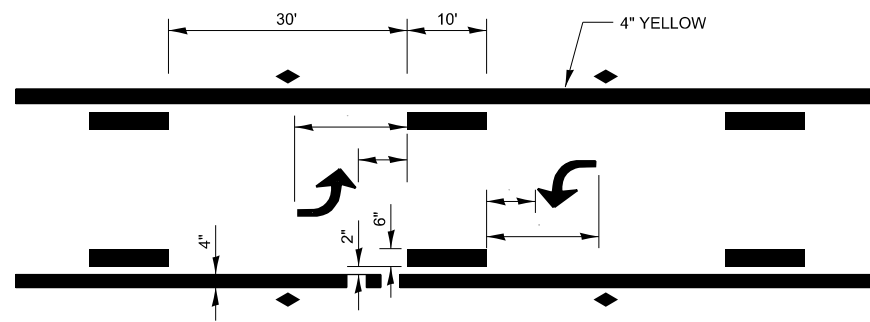
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**KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT**

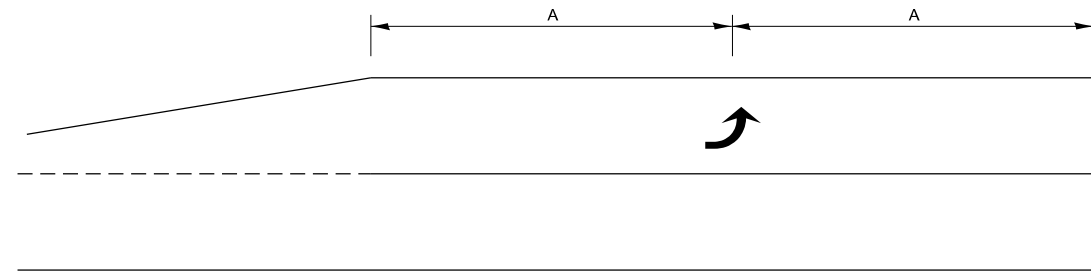
**CH 9 (MANTENO - DESELM RD)  
 SPECIAL DETAILS**

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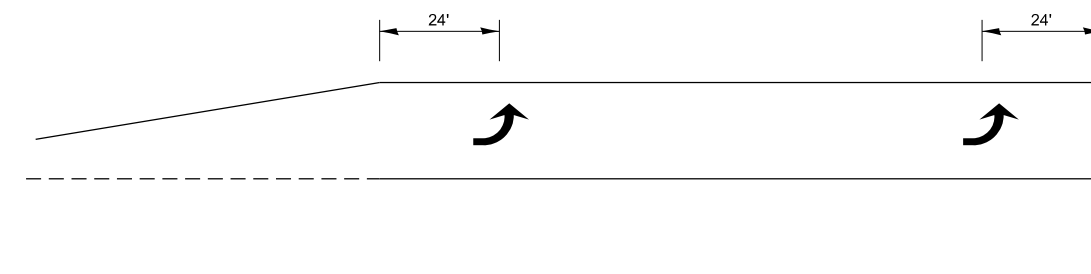
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ILLINOIS FED. AID PROJECT				



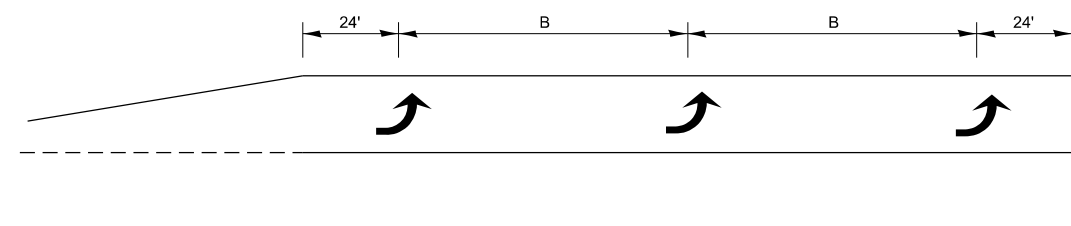
**TYPICAL APPLICATION @  
 BI-DIRECTIONAL LEFT TURN LANE**



**99' AND UNDER**

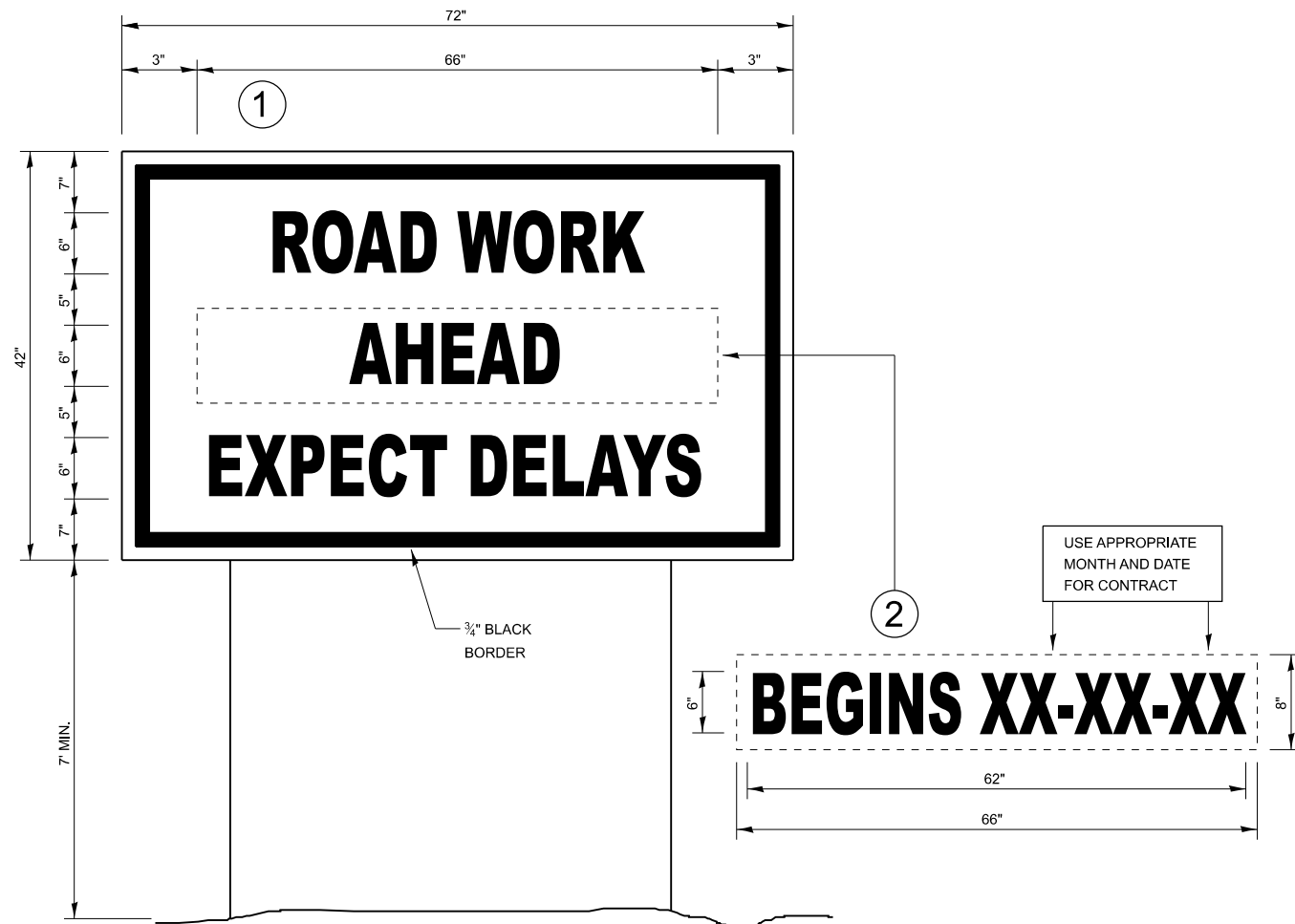


**100' TO 149'**



**150' AND LONGER**

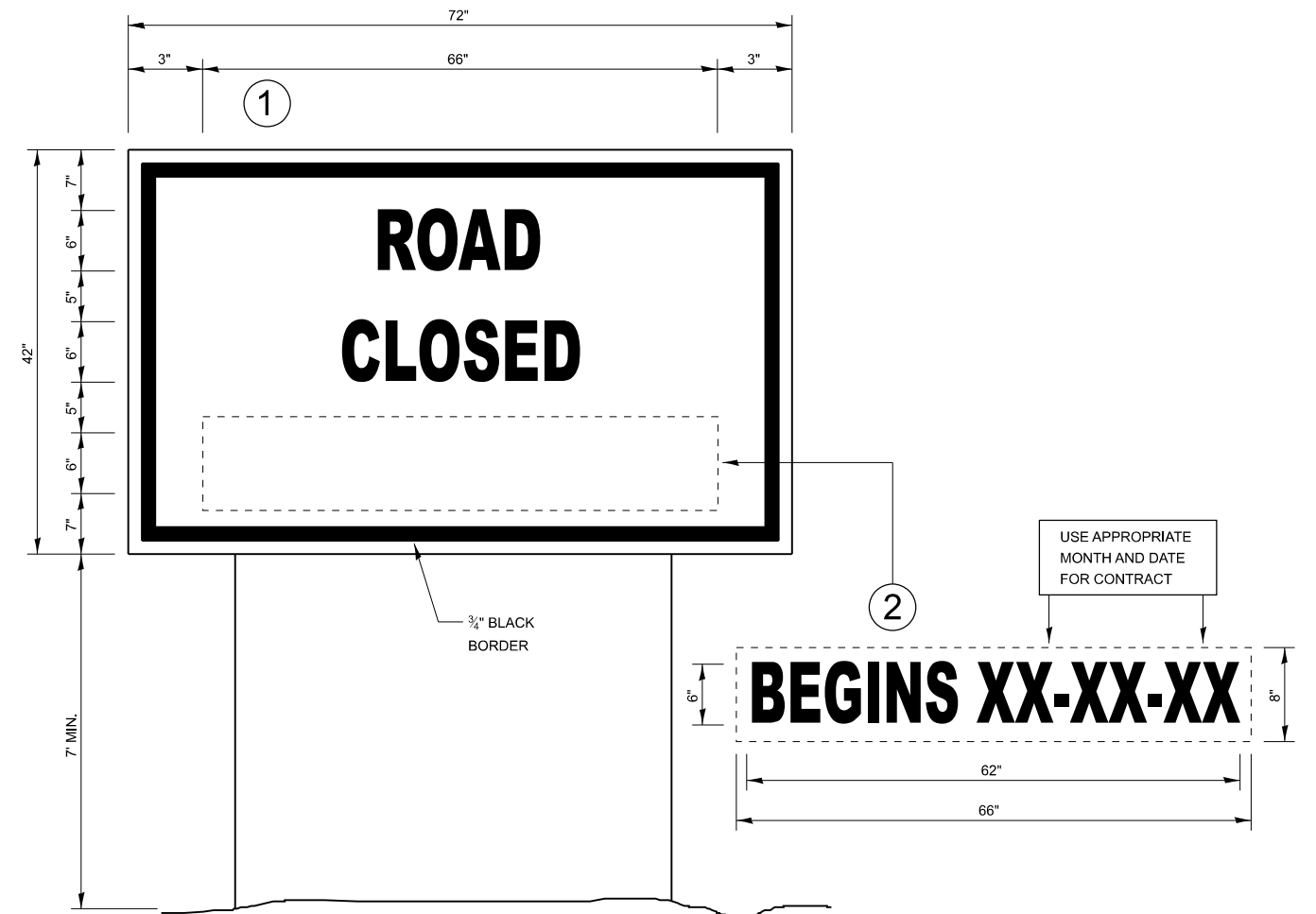
**TYPICAL PLACEMENT OF ARROWS  
 IN TURN LANES**



**TEMPORARY INFORMATION SIGNING**

**NOTES:**

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN 1 WITH INSTALLED PANEL 2 A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL 2 ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL 2 WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



**TEMPORARY INFORMATION SIGNING**

**NOTES:**

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN 1 WITH INSTALLED PANEL 2 A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE ROAD CLOSURE.
4. REMOVE PANEL 2 ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL 2 WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

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	DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

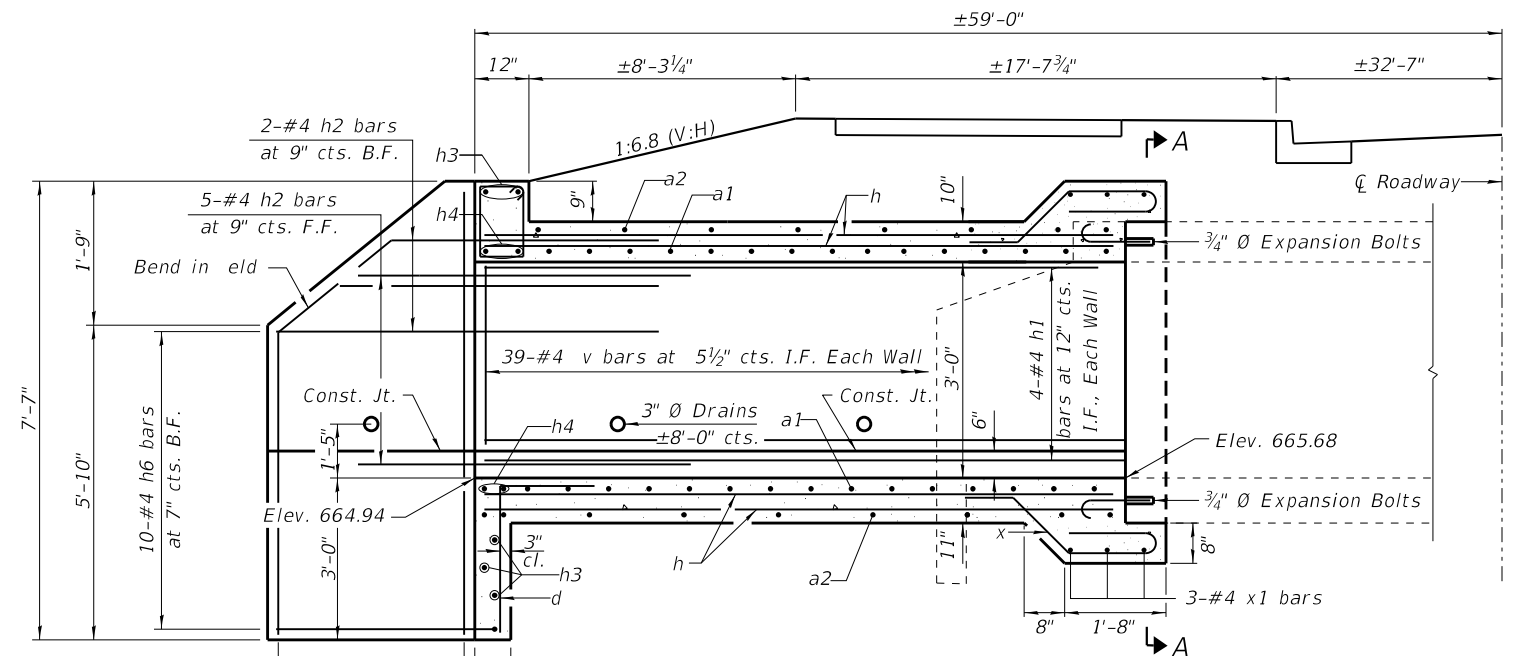
**CH 9 (MANTENO - DESELM RD)  
SPECIAL DETAILS**

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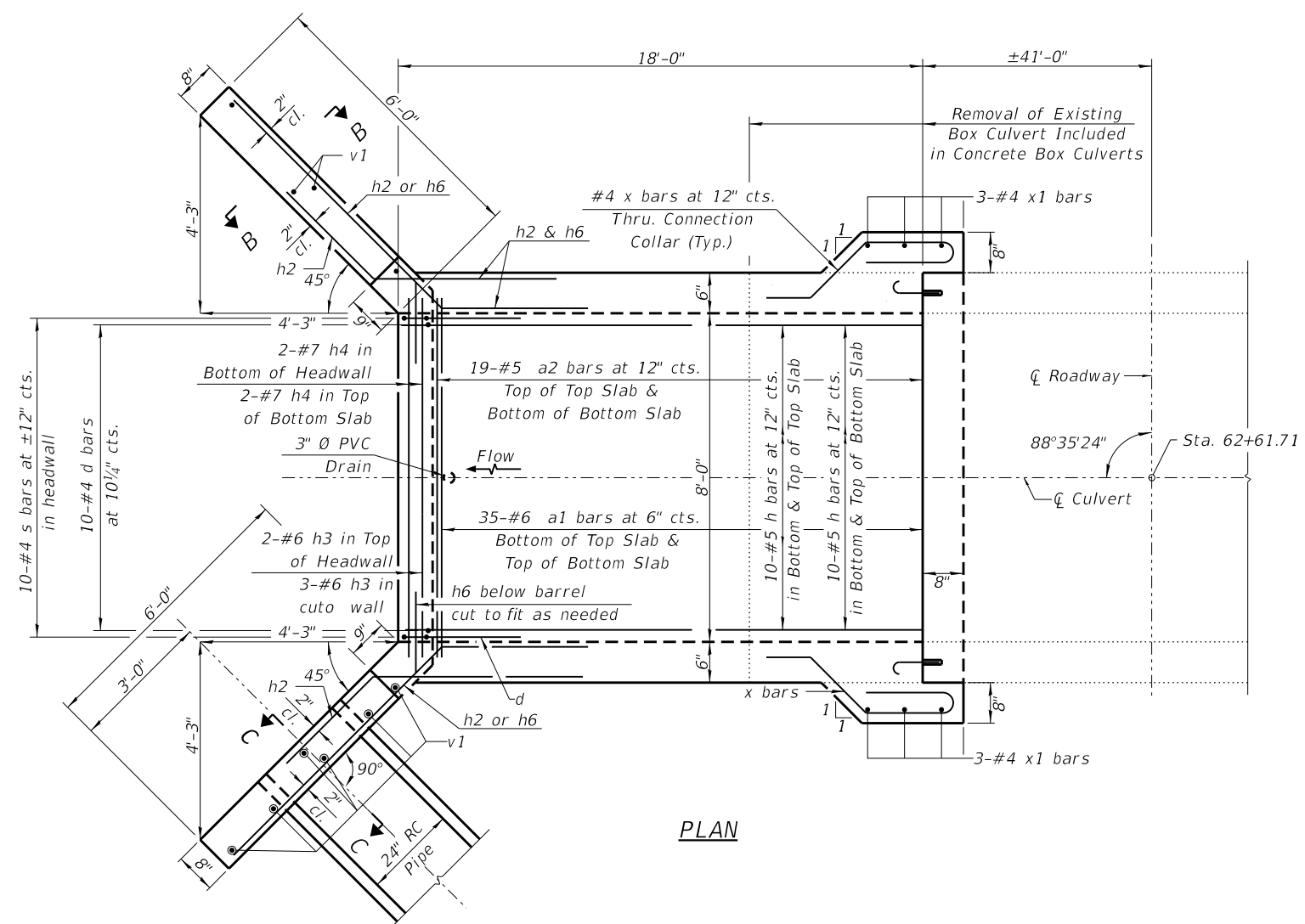
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	126
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

Precast culvert option will not be allowed.  
 All construction joints shall be bonded.  
 Exposed concrete edges shall have a 3/4" chamfer unless otherwise noted.  
 A distance of half the length of the wingwall, but not less than 6 feet of the barrel shall be poured monolithically with the wingwall.  
 Any Concrete Removal shall be included in Concrete Box Culverts as directed by the Engineer.  
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
 Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



**LONGITUDINAL SECTION**



**PLAN**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1	70	#6	10'-0"	U
a2	39	#5	8'-8"	—
d	10	#4	4'-5"	J
h	40	#5	17'-8"	—
h1	8	#4	17'-8"	—
h2	12	#4	8'-0"	—
h3	5	#6	8'-8"	—
h4	4	#7	8'-8"	—
h5	16	#4	3'-4"	—
h6	24	#4	8'-10"	—
s	10	#4	4'-7"	□
v	78	#4	4'-4"	—
v1	10	#4	7'-2"	—
x	32	#4	7'-2"	—
x1	6	#4	18'-2"	—
Concrete Box Culverts	CU YD		16.9	
Reinforcement Bars	POUND		3,180	
3/4" Ø Expansion Bolts	EACH		14	

**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.

**DESIGN STRESSES**

PROPOSED FIELD UNITS	EXISTING FIELD UNITS
f'c = 3,500 psi	f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)	fy = 60,000 psi (Reinforcement)

MODEL: culvert.dwg, 1  
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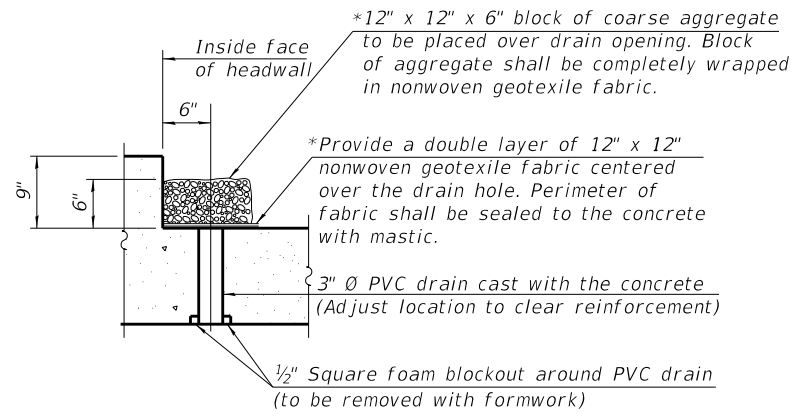
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PLOT DATE = 3/21/2024	CHECKED - JPS/BAN	REVISED -
	DATE - 02/12/2024	REVISED -

**KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT**

**8X3 BOX CULVERT C.H. 9 (MANTENO-DESELM RD.)  
 STATION 62 + 61.49**

SCALE: N/A SHEET 1 OF 2 SHEETS

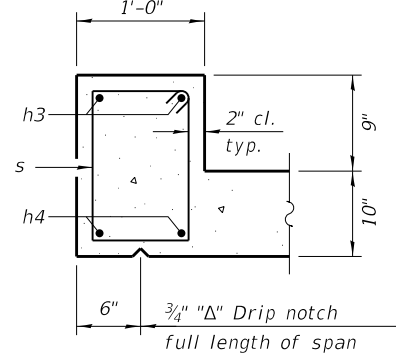
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	127
			CONTRACT NO. 87805	
ILLINOIS				



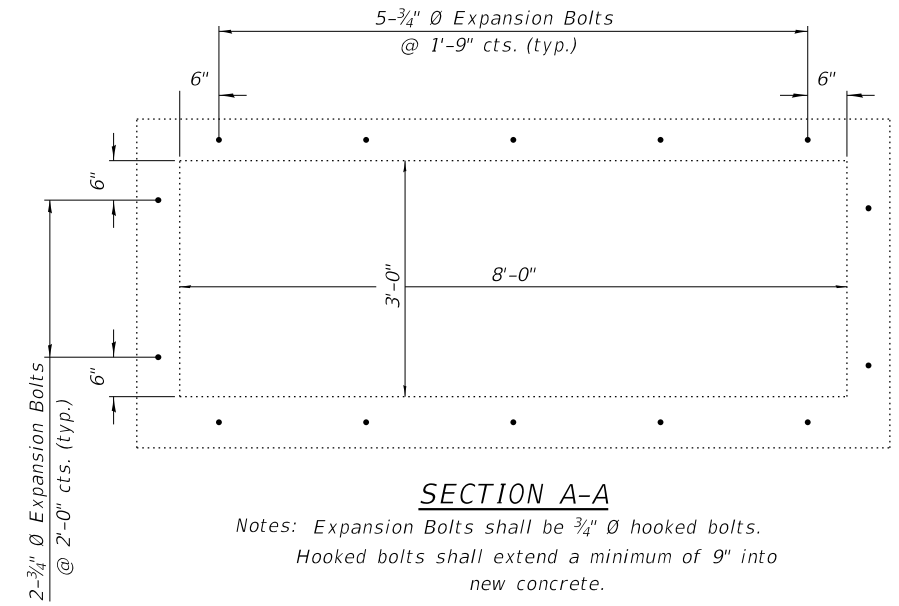
**DRAIN DETAIL**

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

\*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.

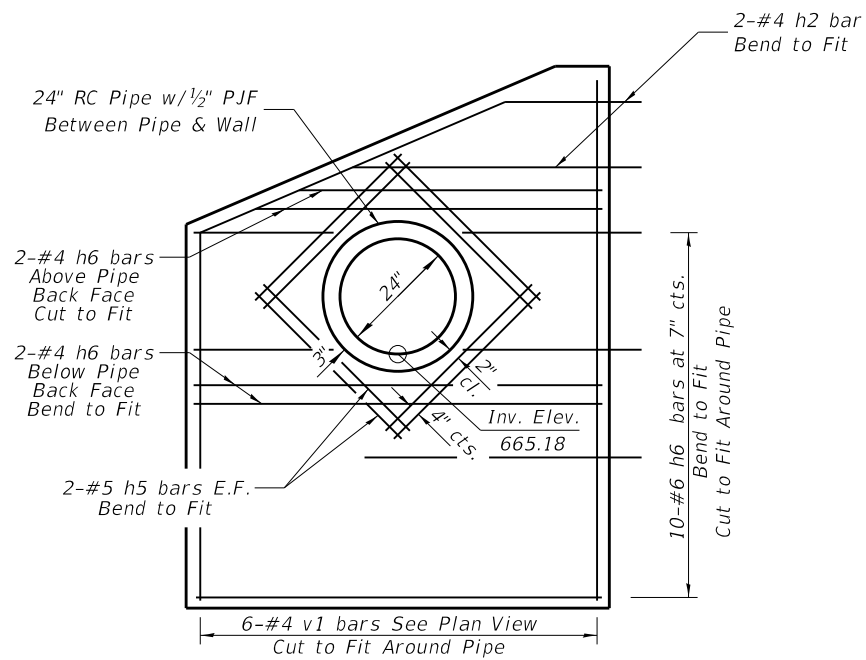


**SECTION THRU HEADWALL**

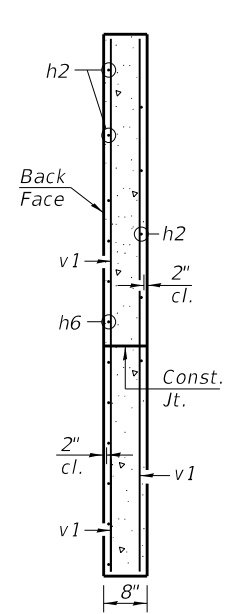


**SECTION A-A**

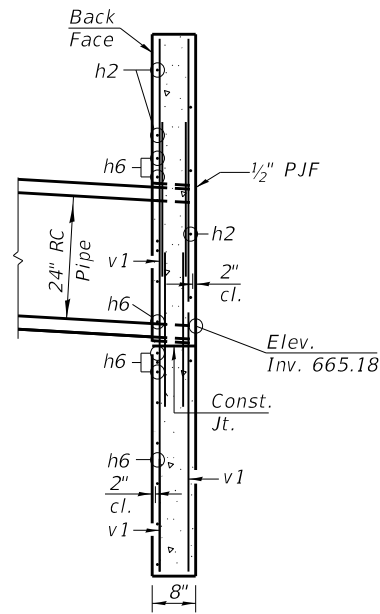
Notes: Expansion Bolts shall be 3/4" Ø hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete.



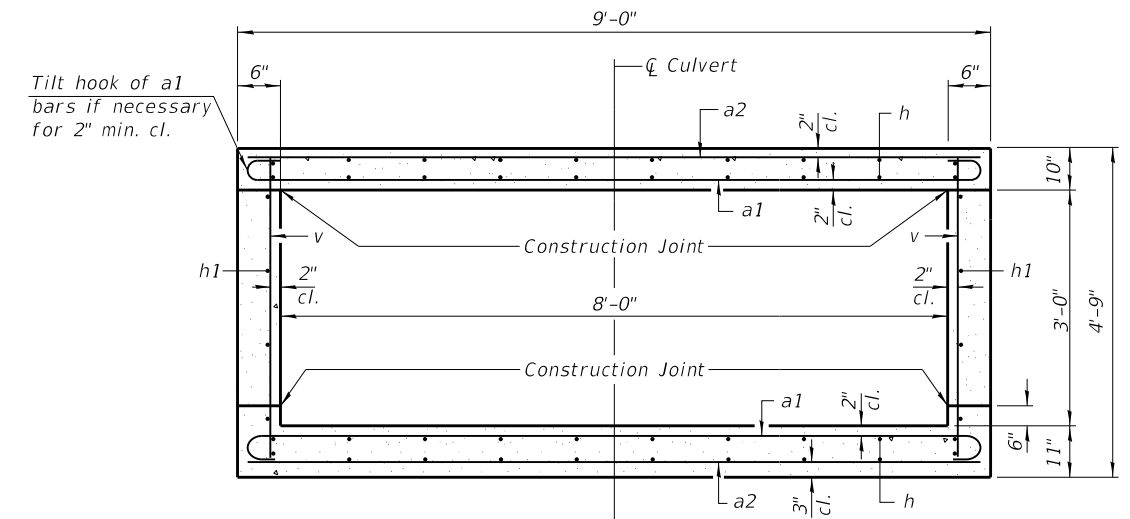
**WEST WINGWALL (Back Face)**



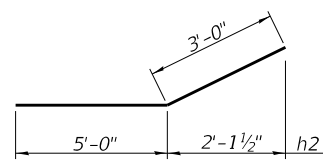
**SECTION B-B**



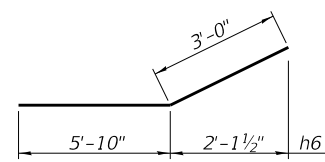
**SECTION C-C**



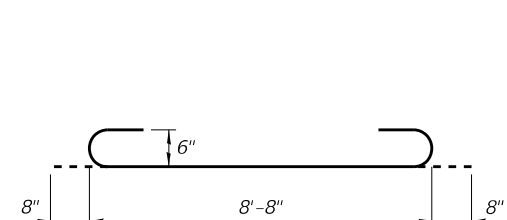
**SECTION THRU BARREL**



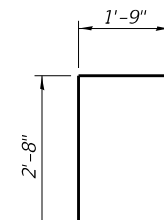
**BARS h2**



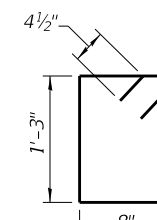
**BARS h6**



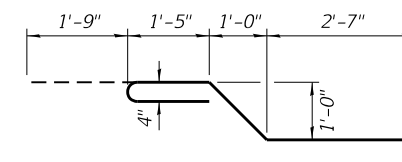
**BAR a1**



**BAR d**



**BAR s**



**BAR x**



**BAR x1**

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PLOT DATE = 3/21/2024	CHECKED - JPS/BAN	REVISED -
	DATE - 02/12/2024	REVISED -

**KANKAKEE COUNTY HIGHWAY DEPARTMENT**

**8X3 BOX CULVERT C.H. 9 (MANTENO-DESELM RD.) STATION 62 + 61.49**

SCALE: N/A SHEET 2 OF 2 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	128
			CONTRACT NO. 87805	
ILLINOIS				

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

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

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PLOT DATE =	3/21/2024

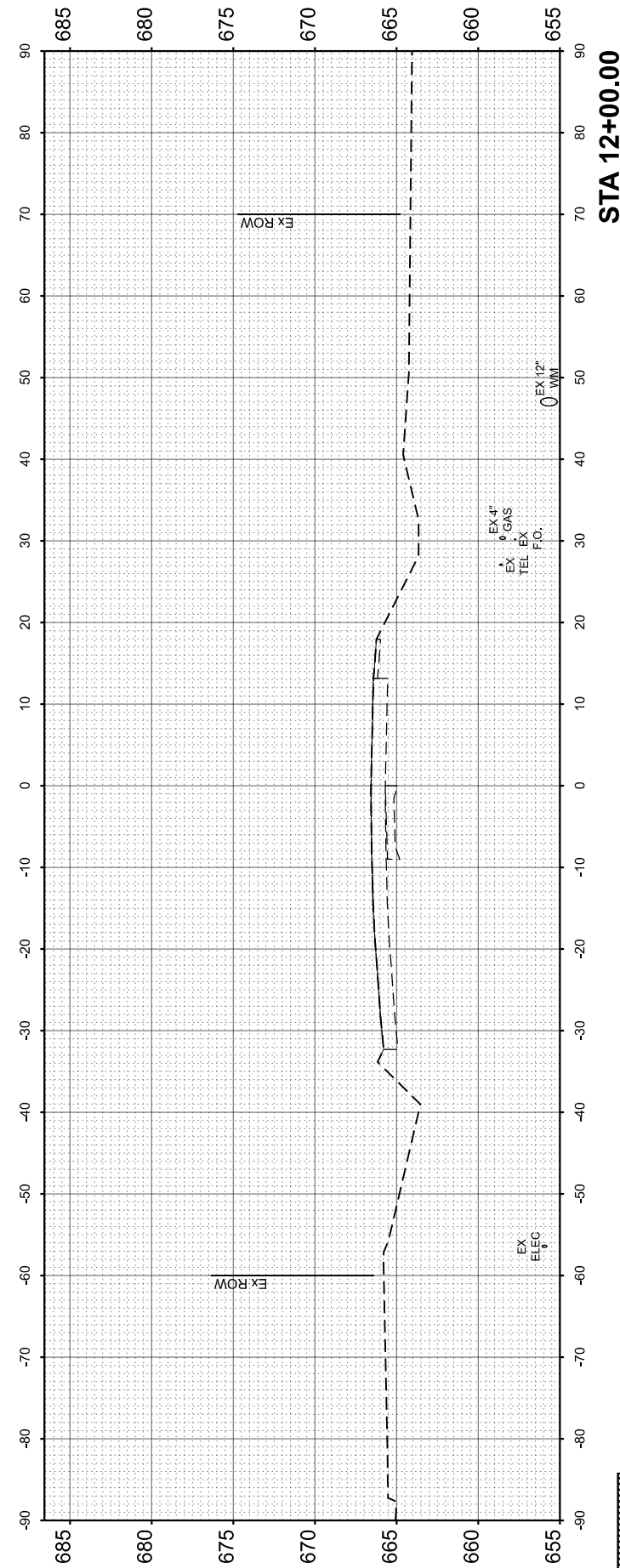
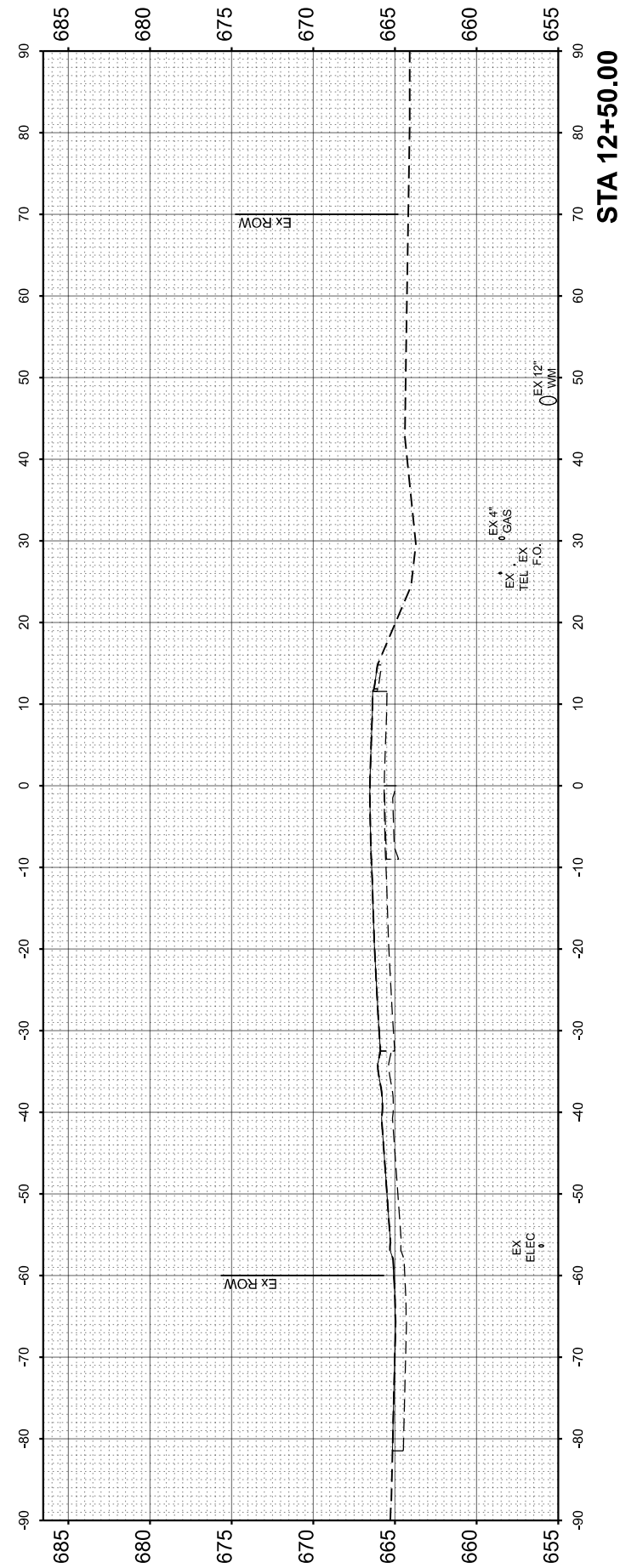
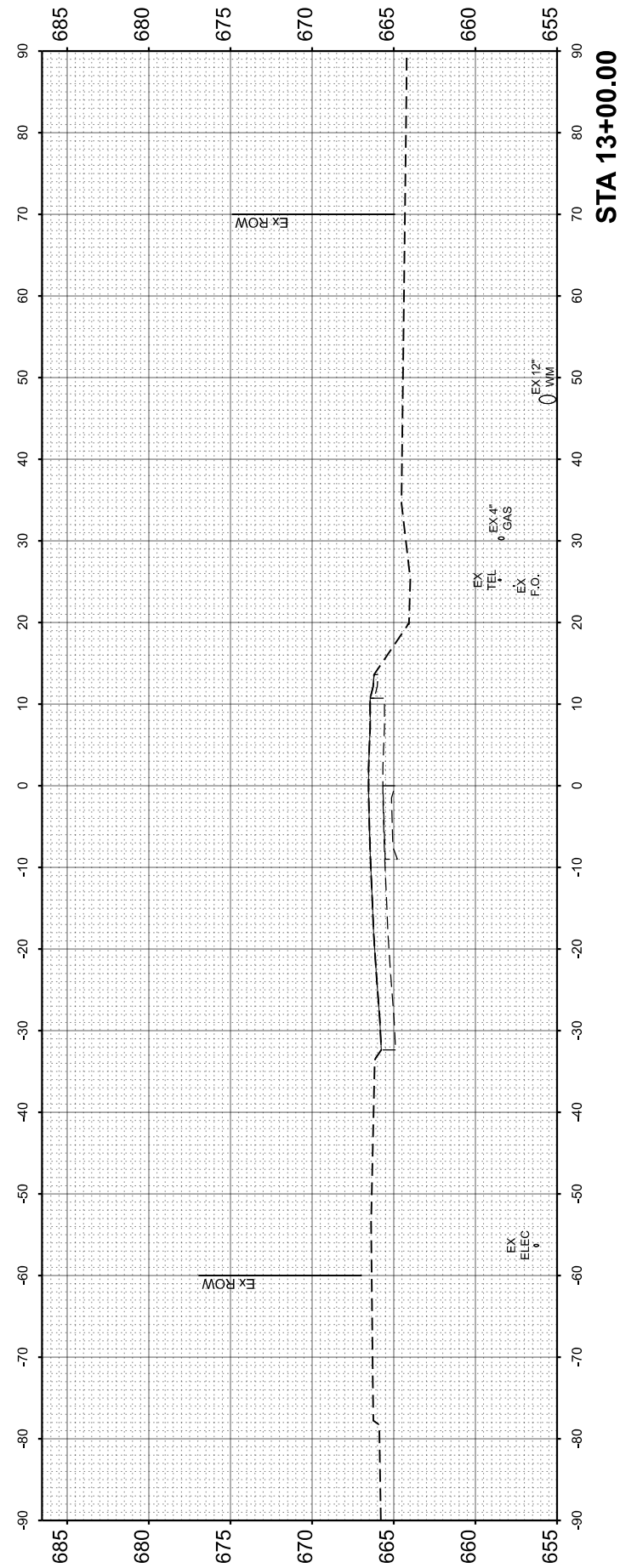
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DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 1    OF 43    SHEETS    STA. 12+00.00    TO STA. 13+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	129
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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CHECKED -	
DATE -	
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PLOT DATE =	3/21/2024

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REVISOR -	
CHECKED -	
DATE -	

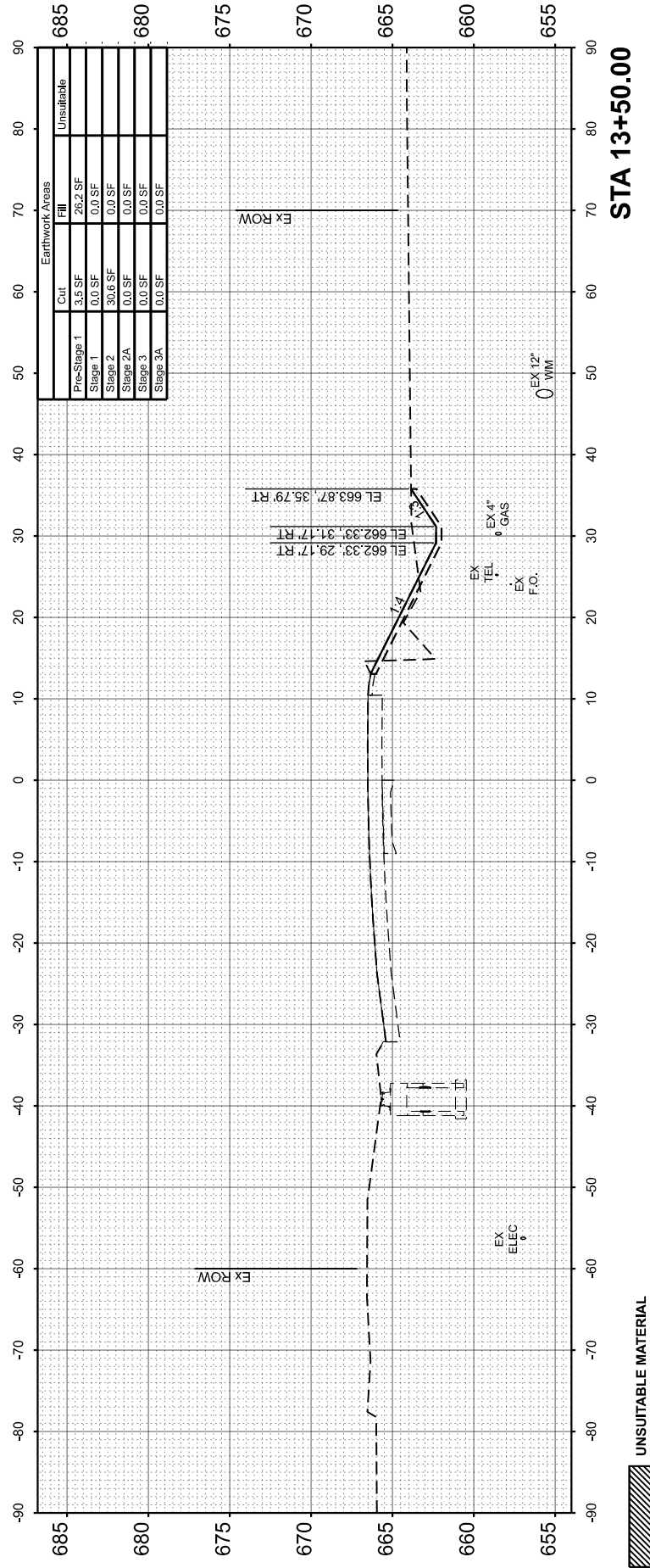
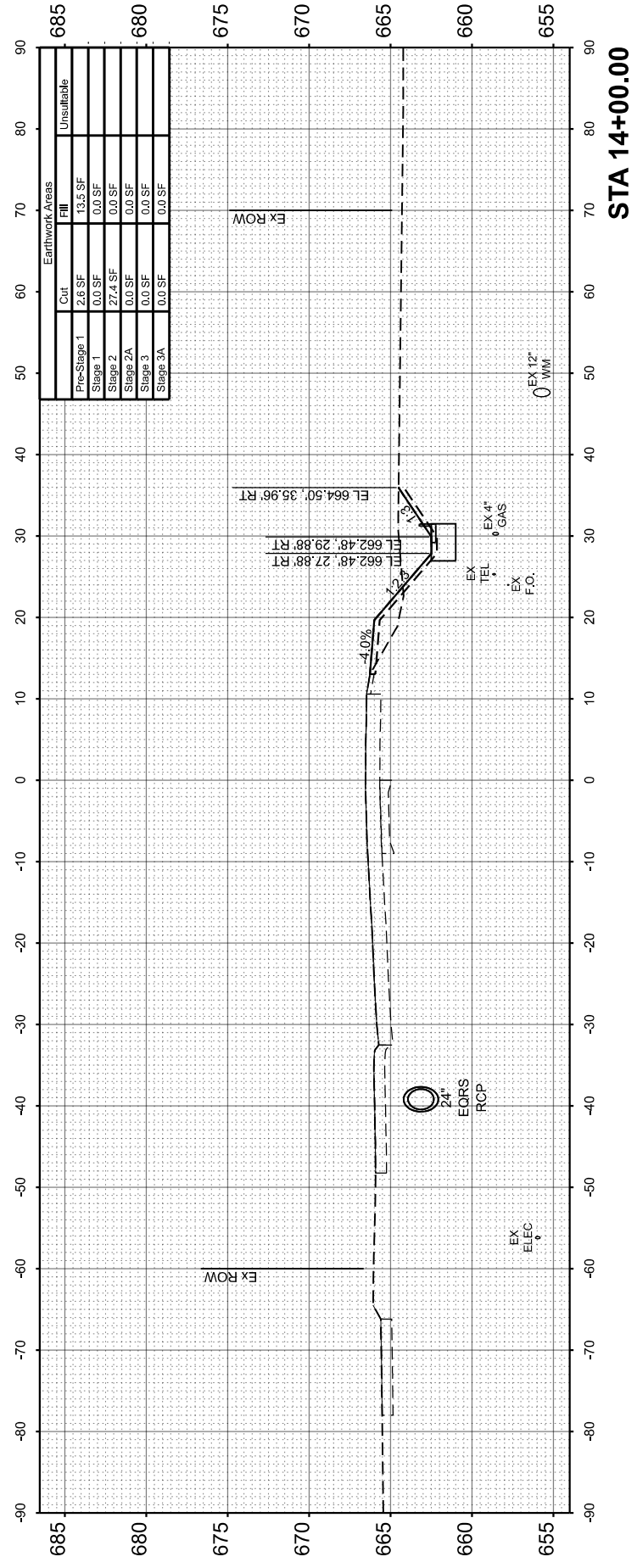
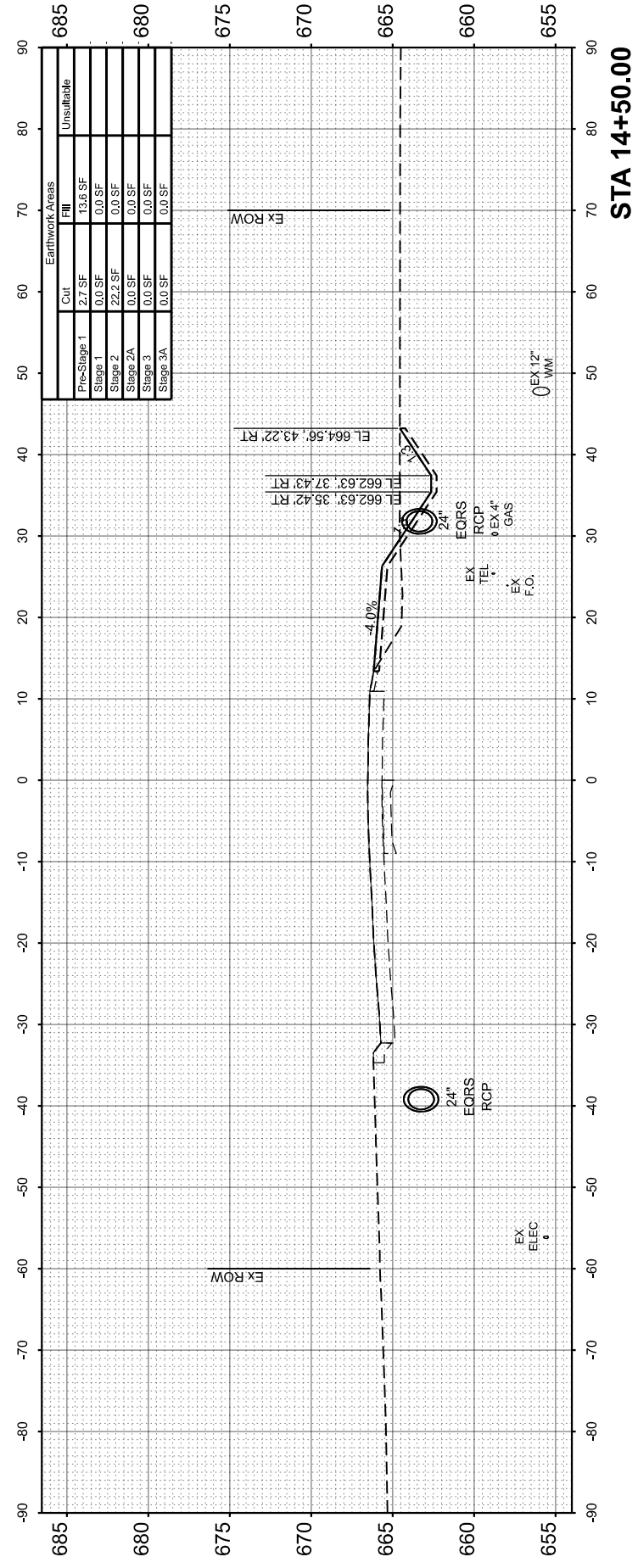
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REVISOR -	
REVISOR -	
REVISOR -	

**KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
 CROSS SECTIONS**

SCALE: H=10 V=5 SHEET 2 OF 43 SHEETS STA. 13+50.00 TO STA. 14+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	130
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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DATE -	3/21/2024

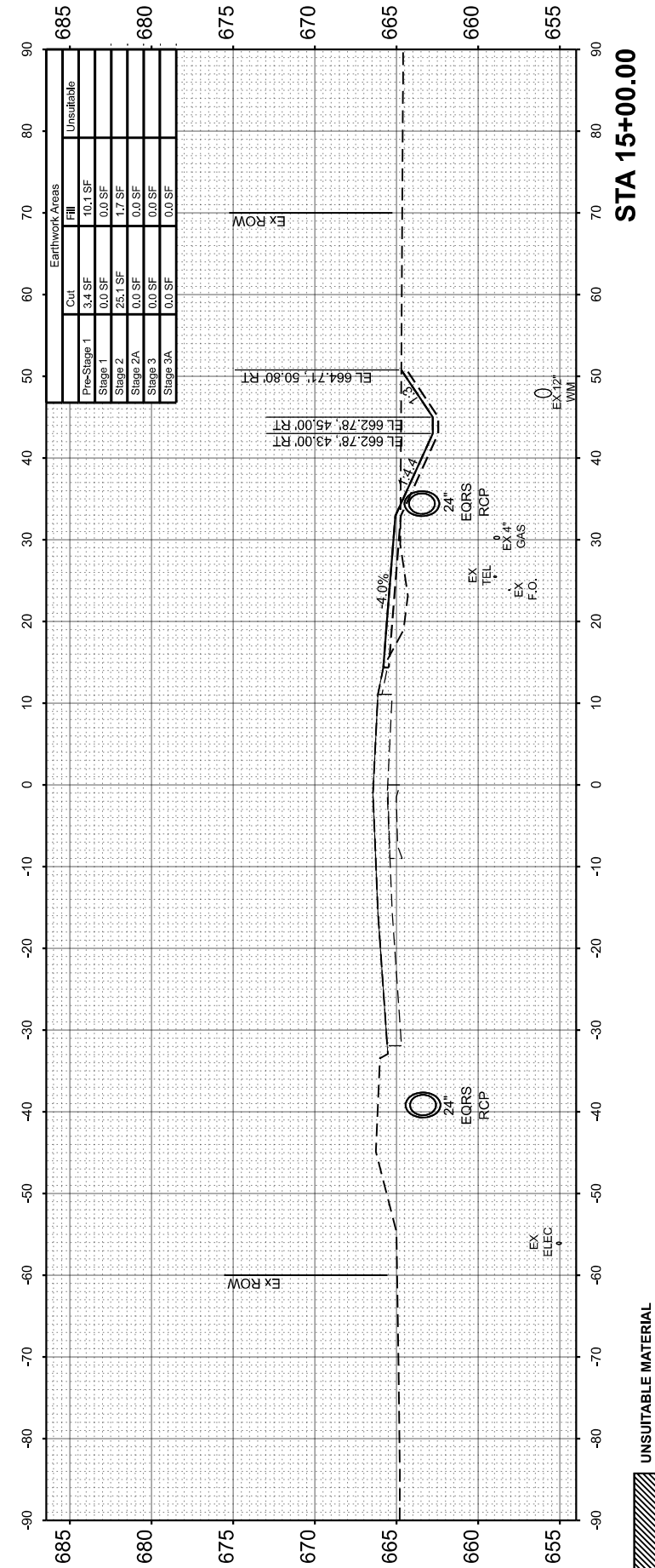
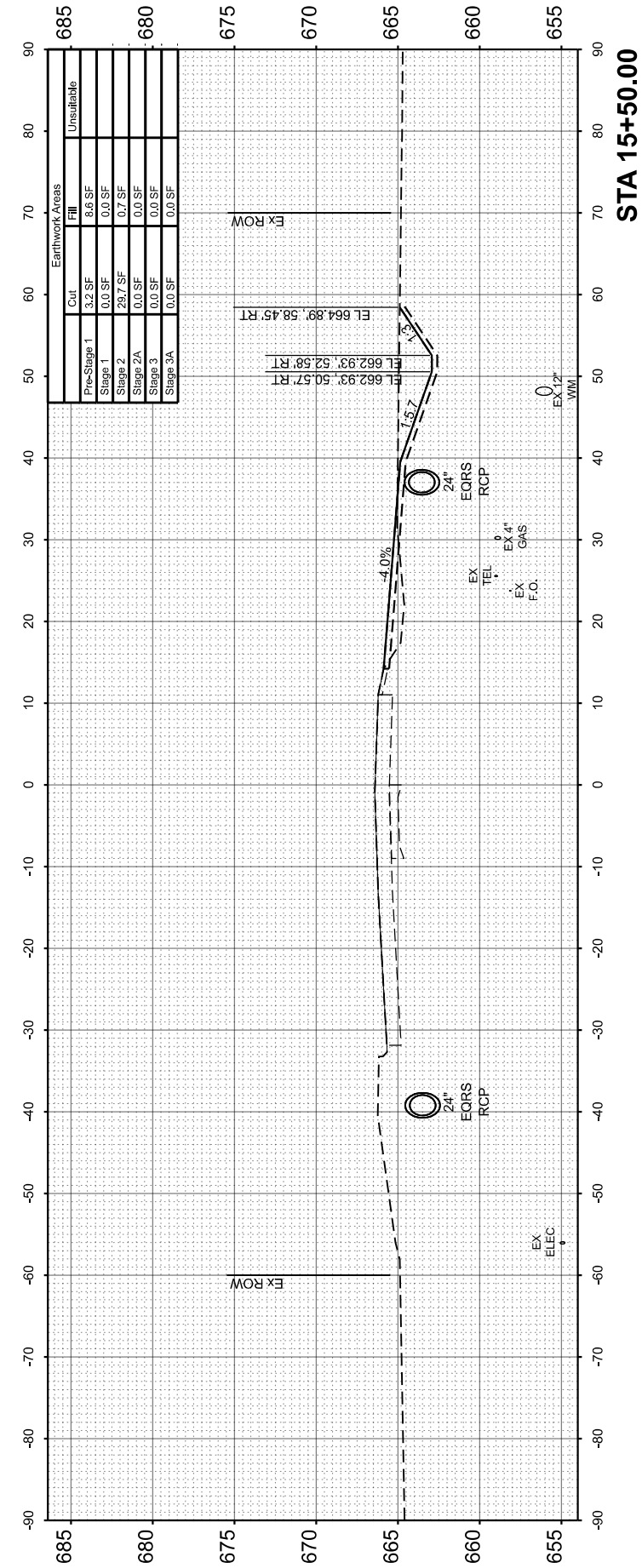
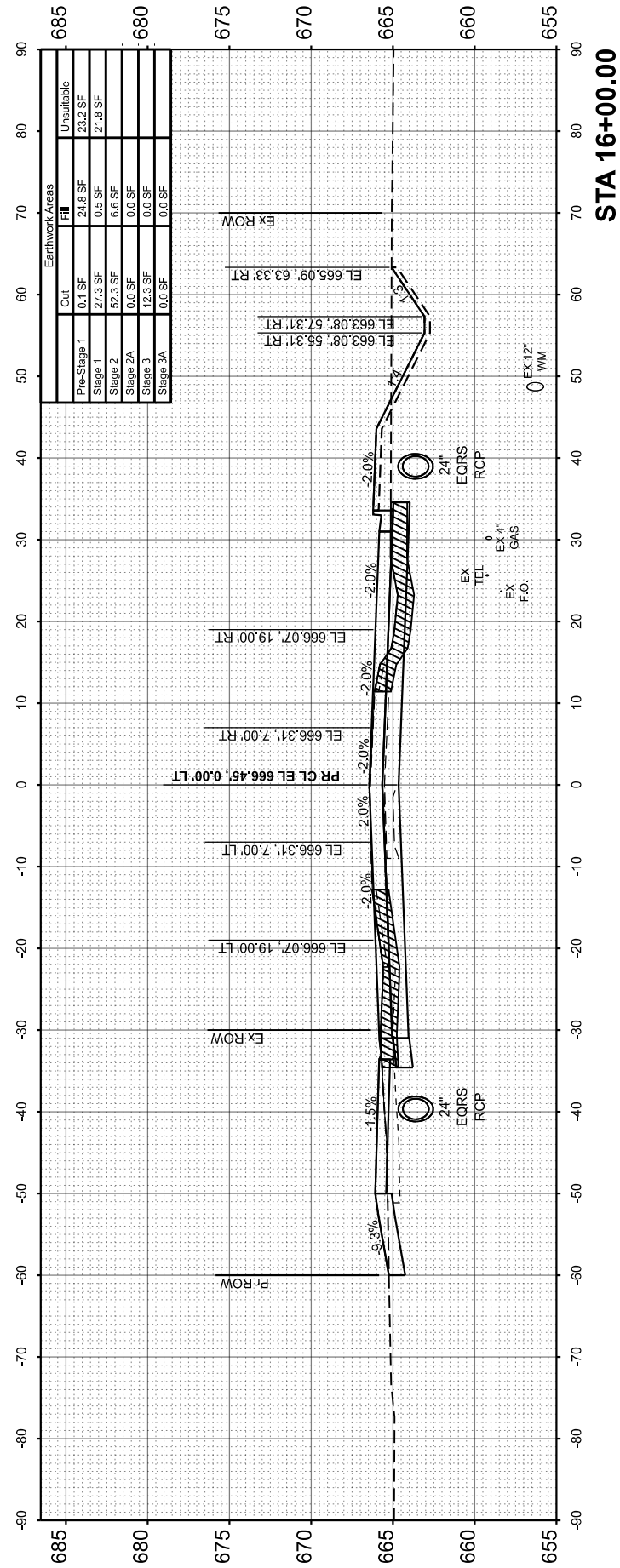
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CHECKED -	REVISED -
DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5 SHEET 3 OF 43 SHEETS STA. 15+00.00 TO STA. 16+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	131
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

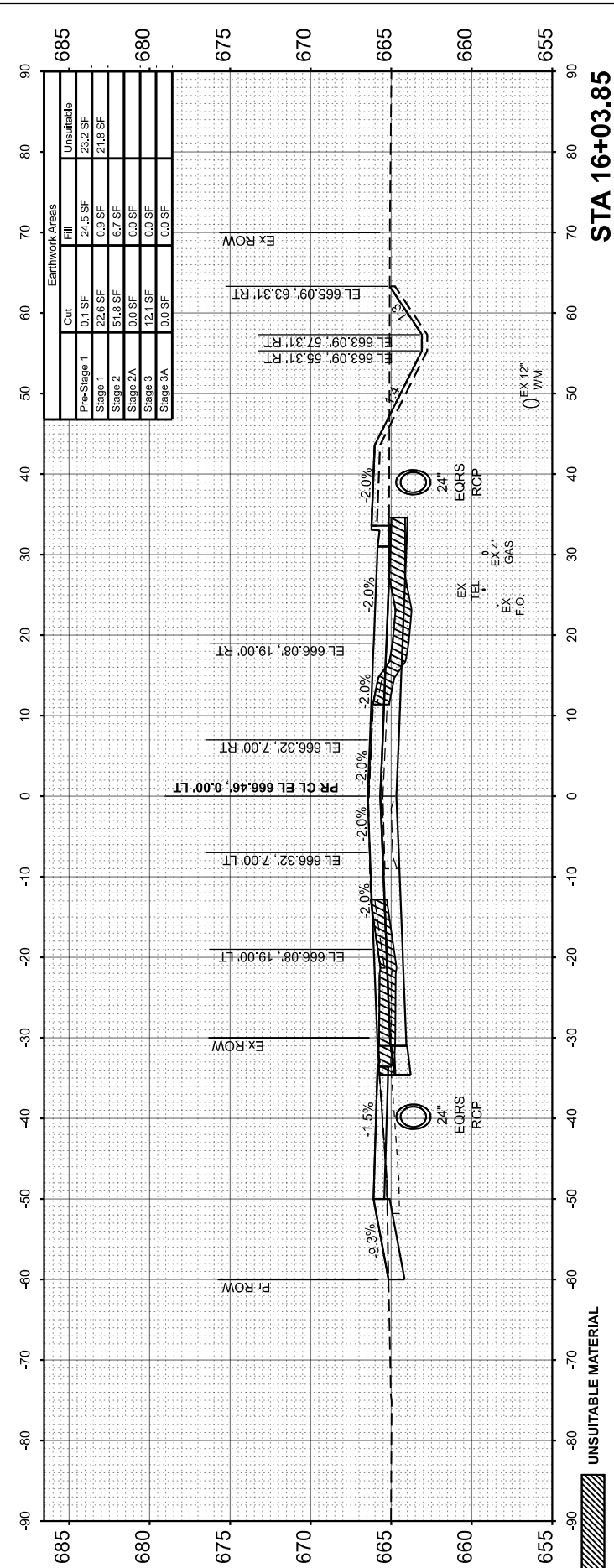
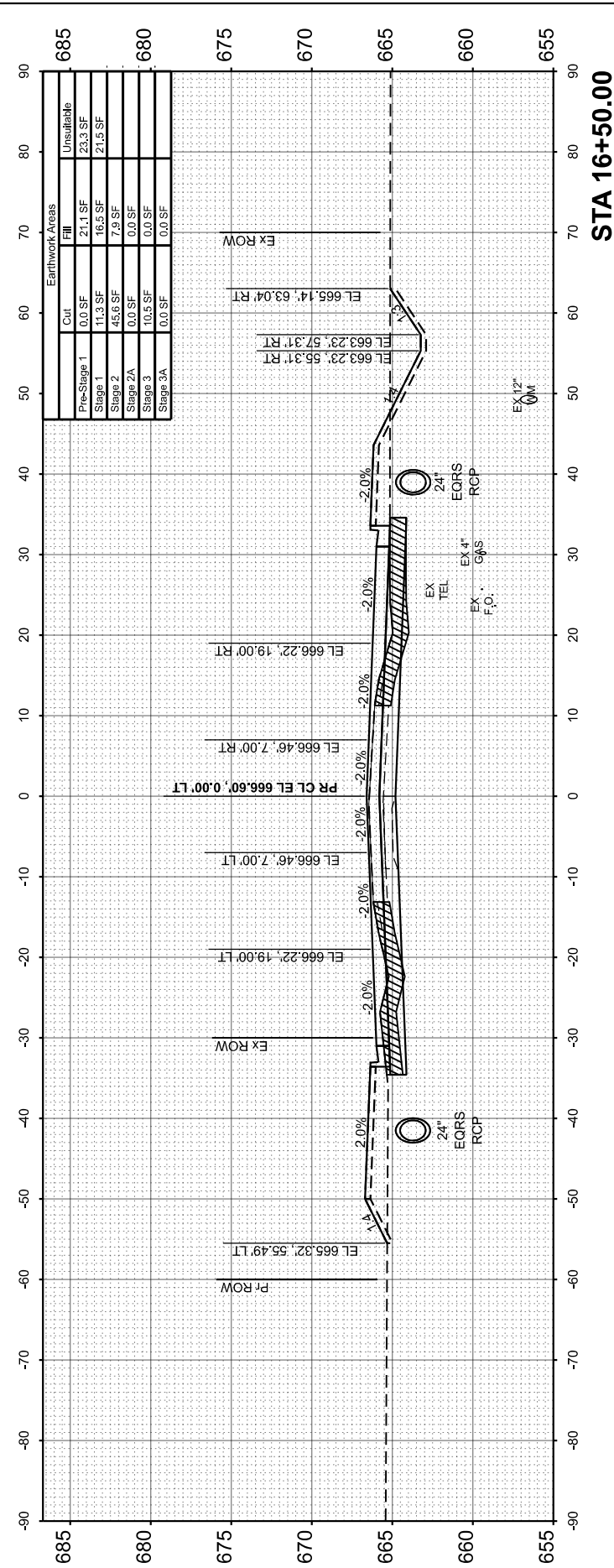
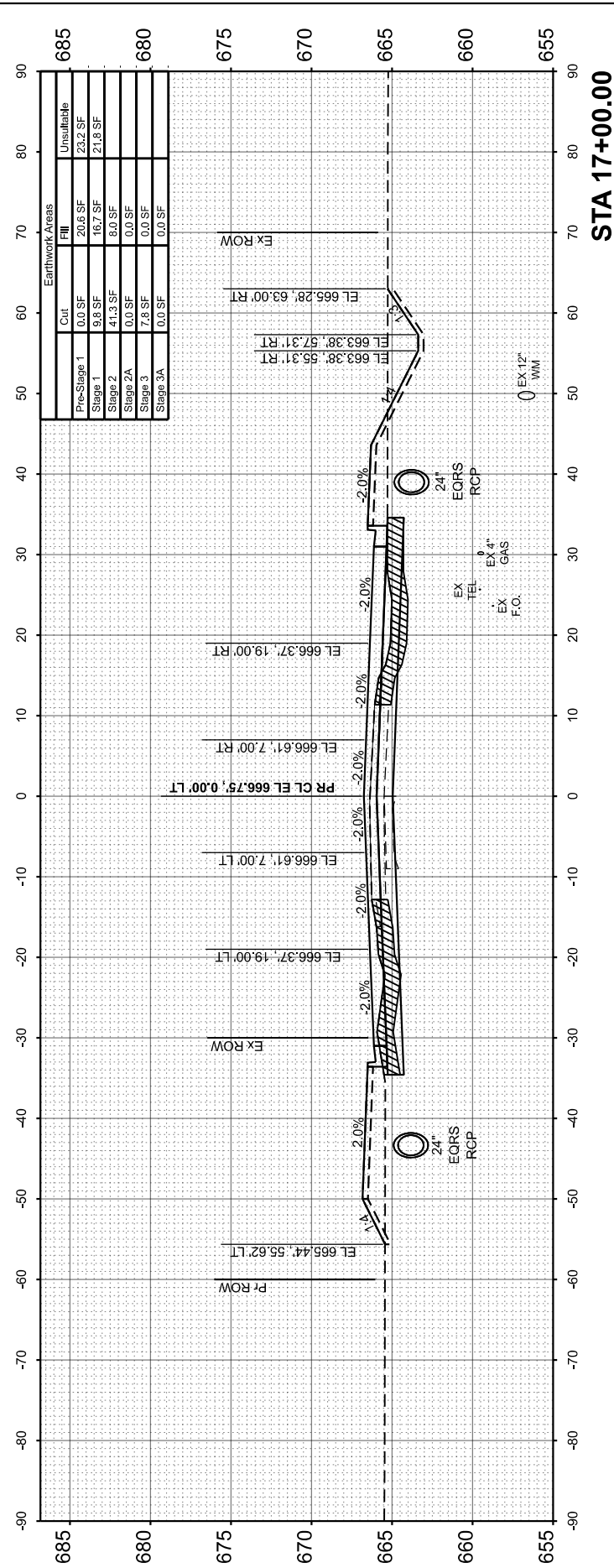
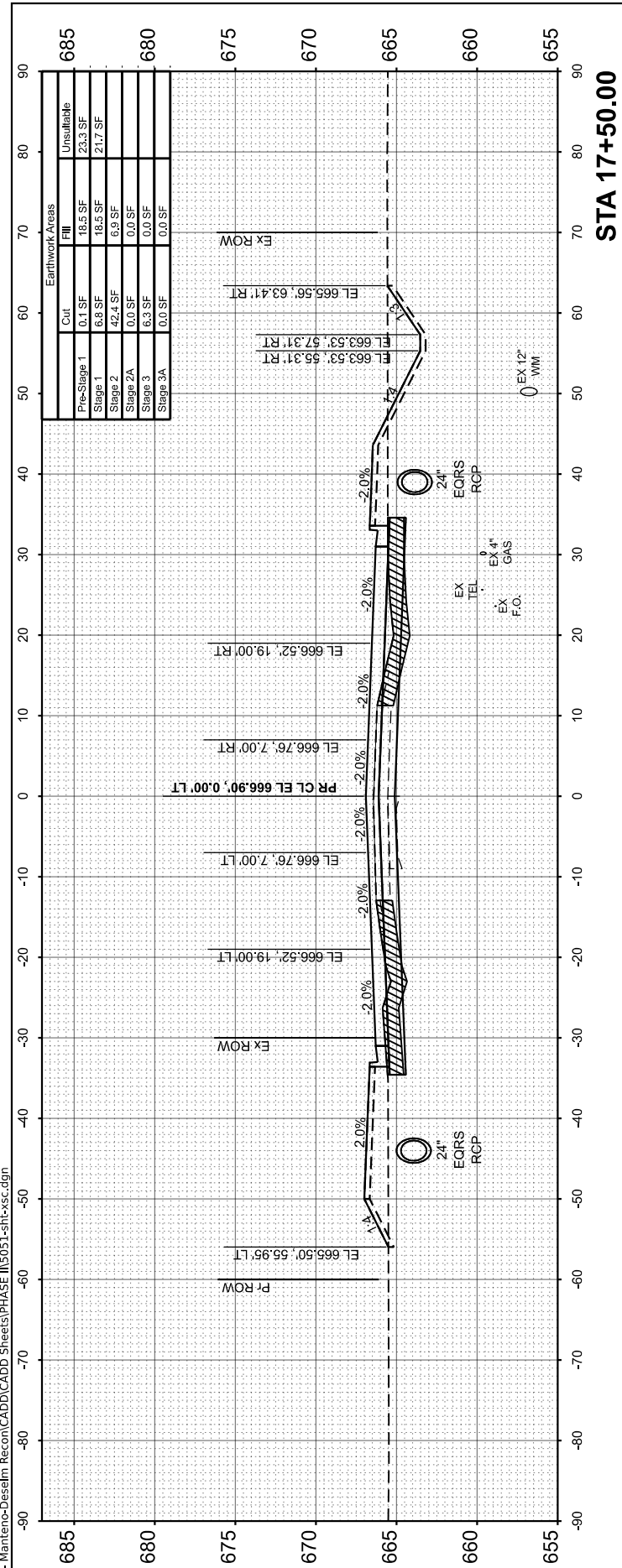


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NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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PLOT DATE	= 3/21/2024	CHECKED	-
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REVISD	-
REVISD	-
REVISD	-

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELN RD)  
CROSS SECTIONS**

SCALE: H=10 V=5	SHEET 4	OF 43 SHEETS	STA. 16+03.85	TO STA. 17+50.00
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	132
				CONTRACT NO. 87805
ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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NOTE BOOK	PLOTTED		
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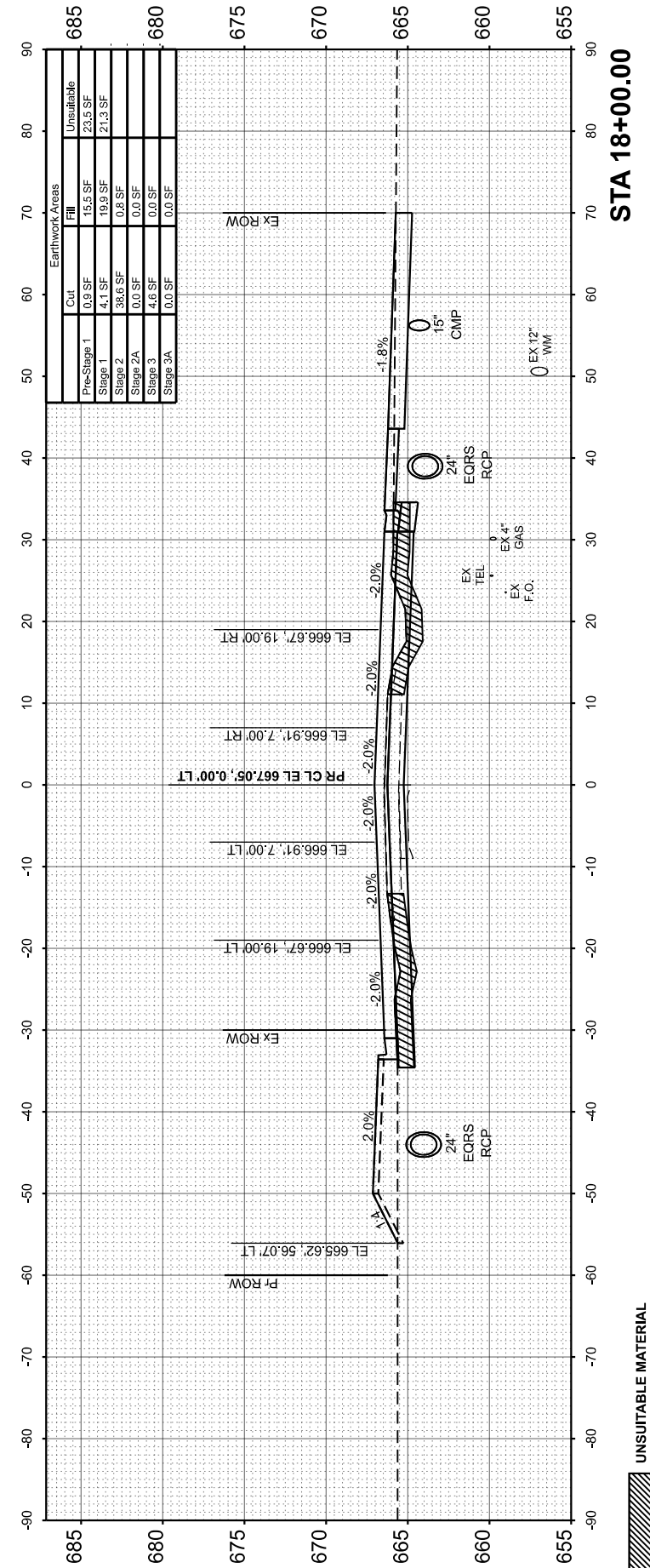
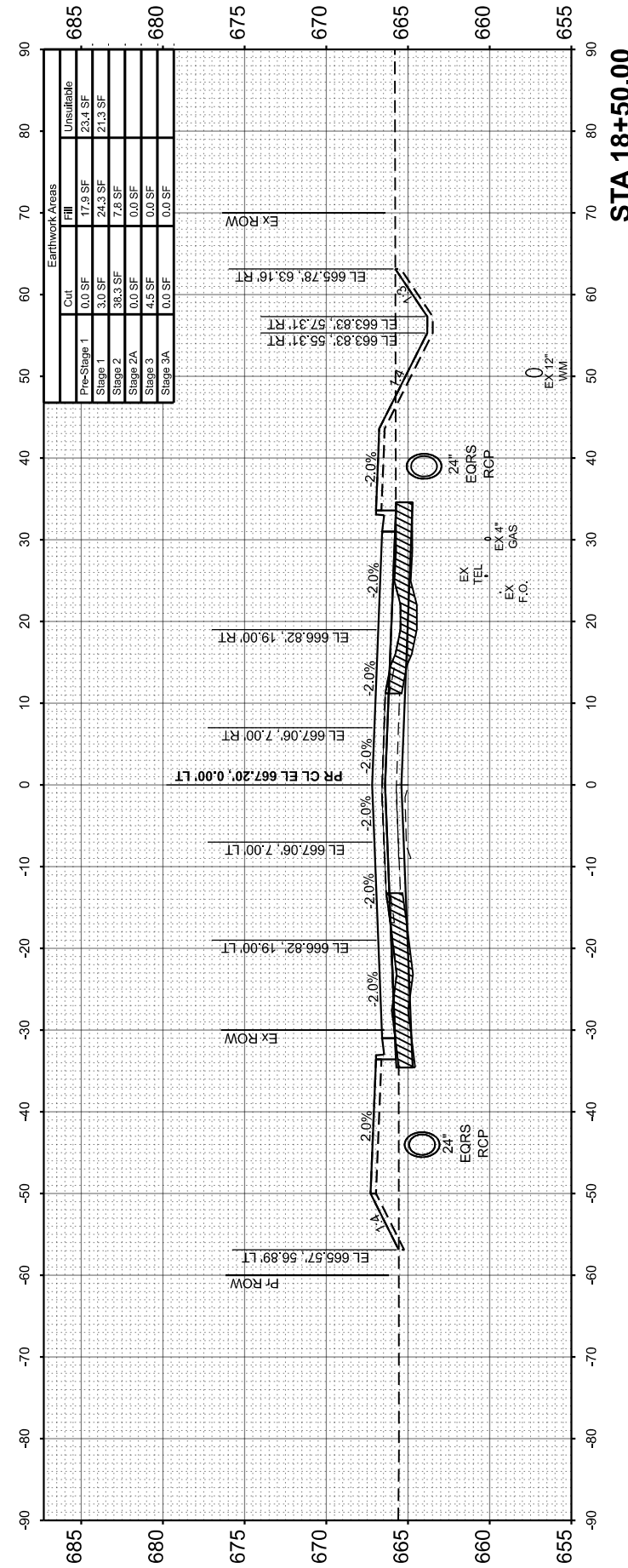
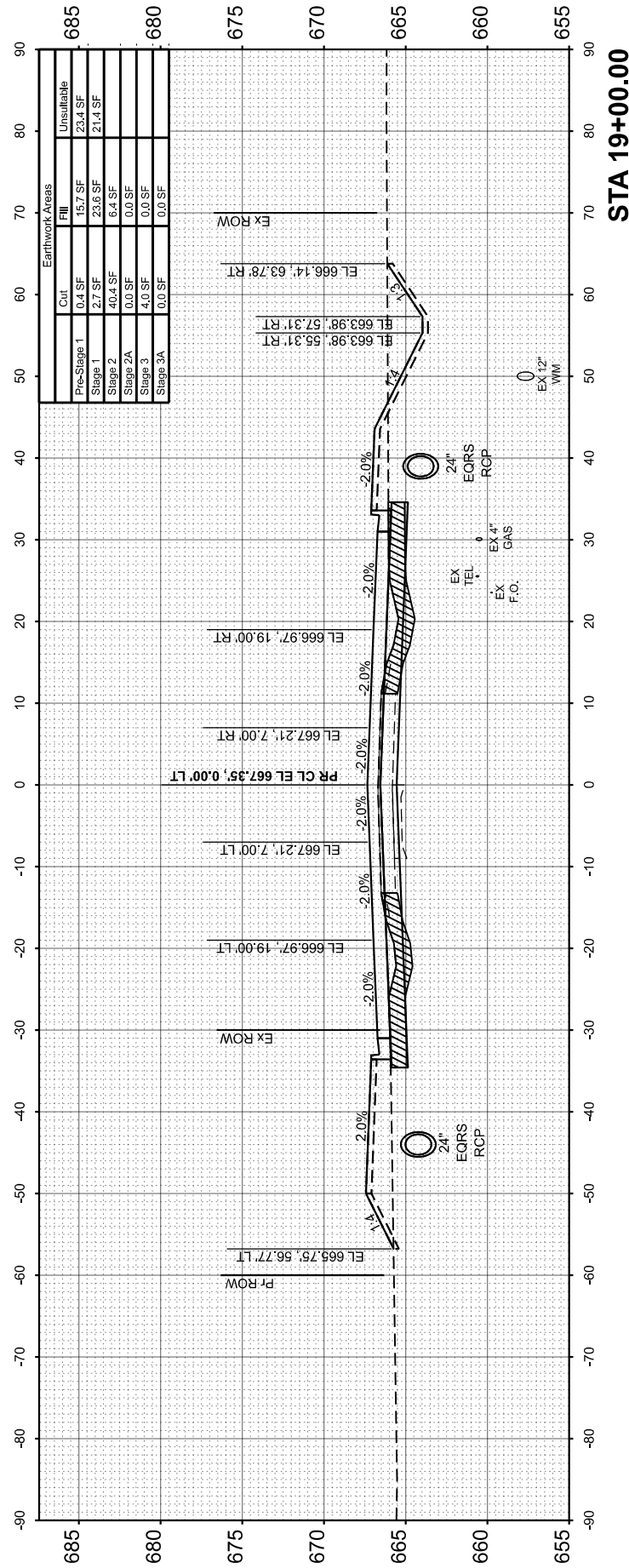
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	DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5      SHEET 5      OF 43 SHEETS      STA. 18+00.00      TO STA. 19+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	133
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

FINAL SURVEY	SURVEYED	BY	DATE
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ORIGINAL SURVEY	SURVEYED	BY	DATE
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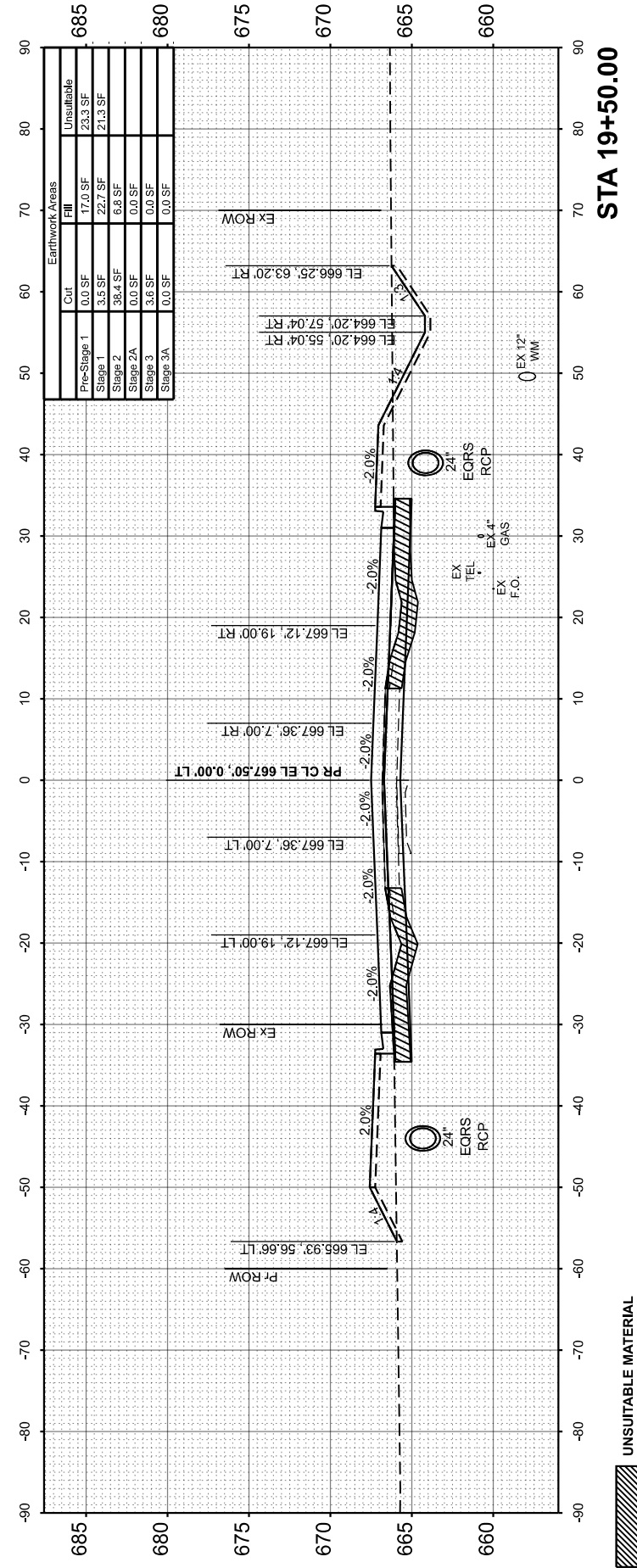
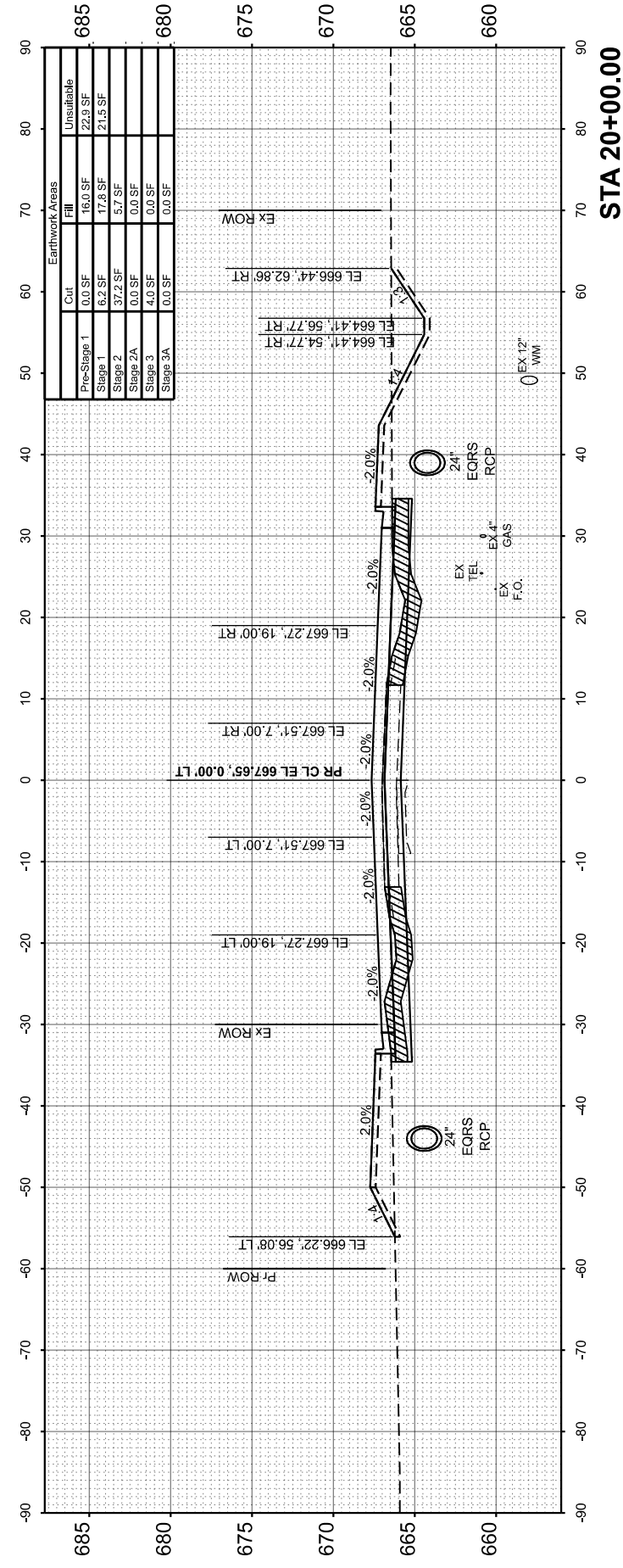
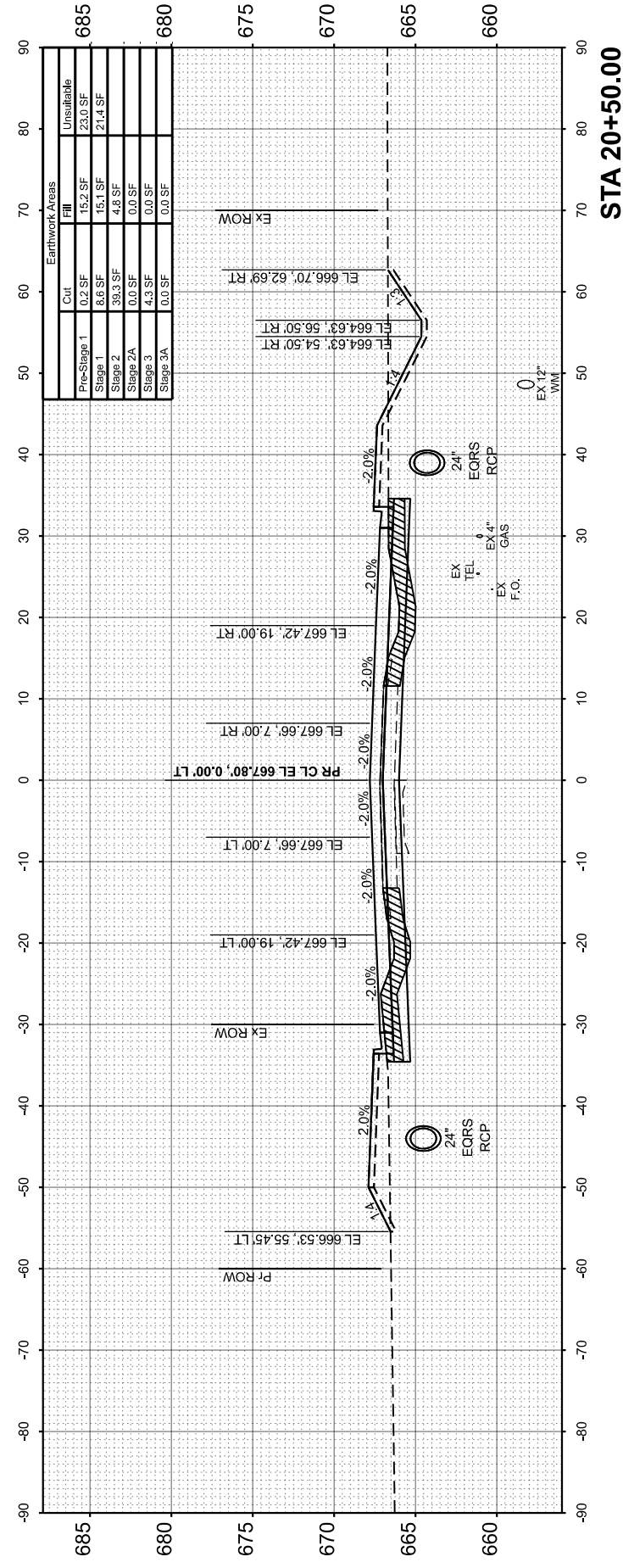
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DATE -	REVISED -

**KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
 CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 6    OF 43 SHEETS    STA. 19+50.00    TO STA. 20+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	134
				CONTRACT NO. 87805
ILLINOIS / FED. AID PROJECT				

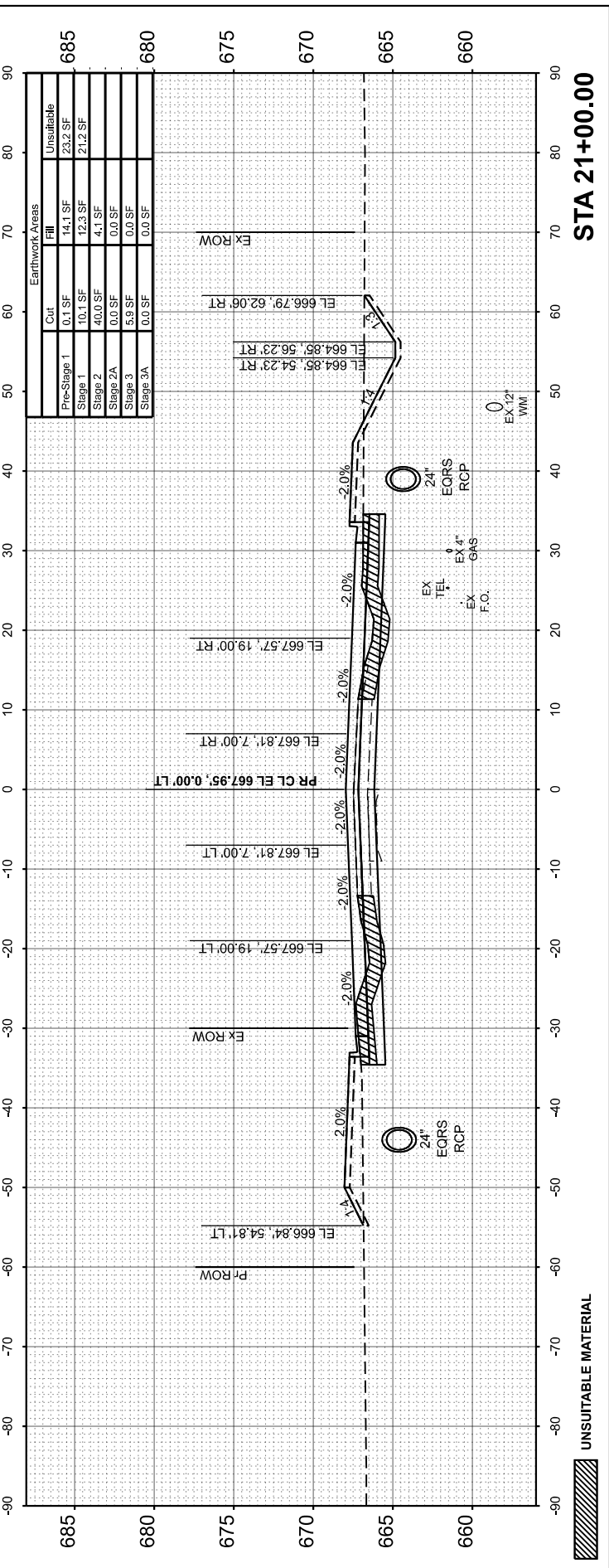
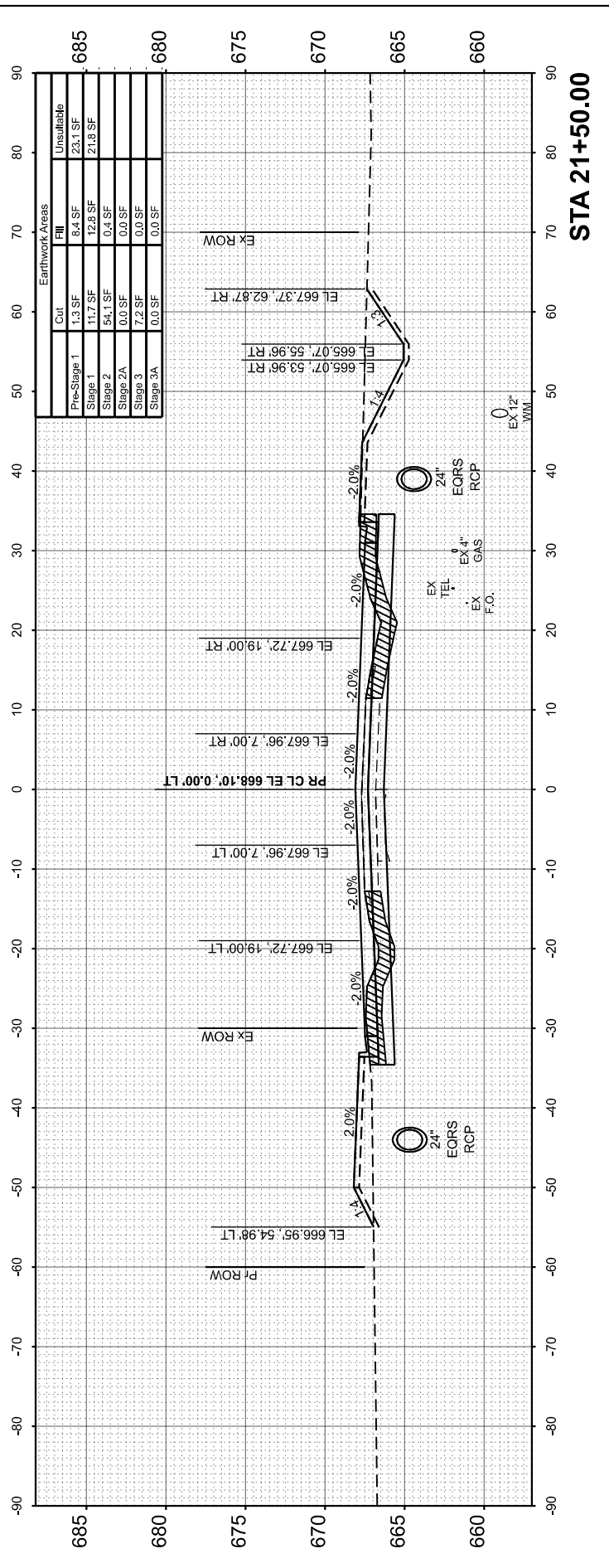
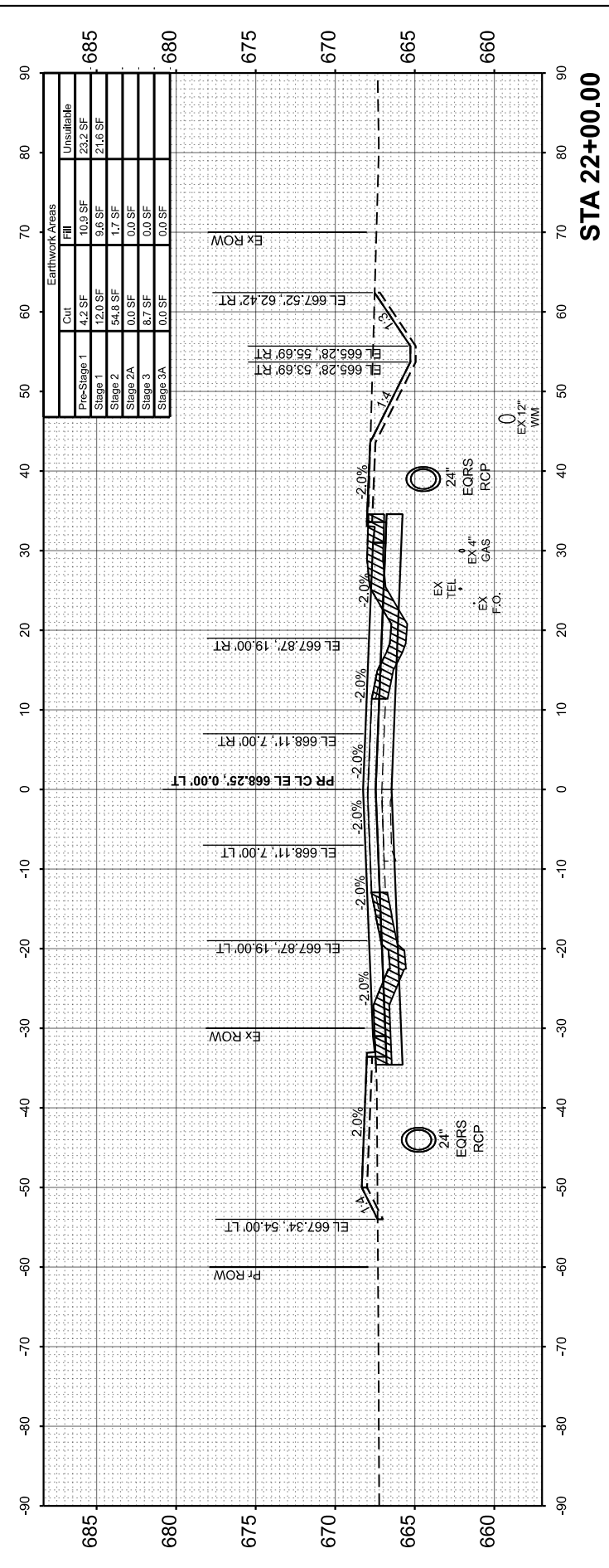
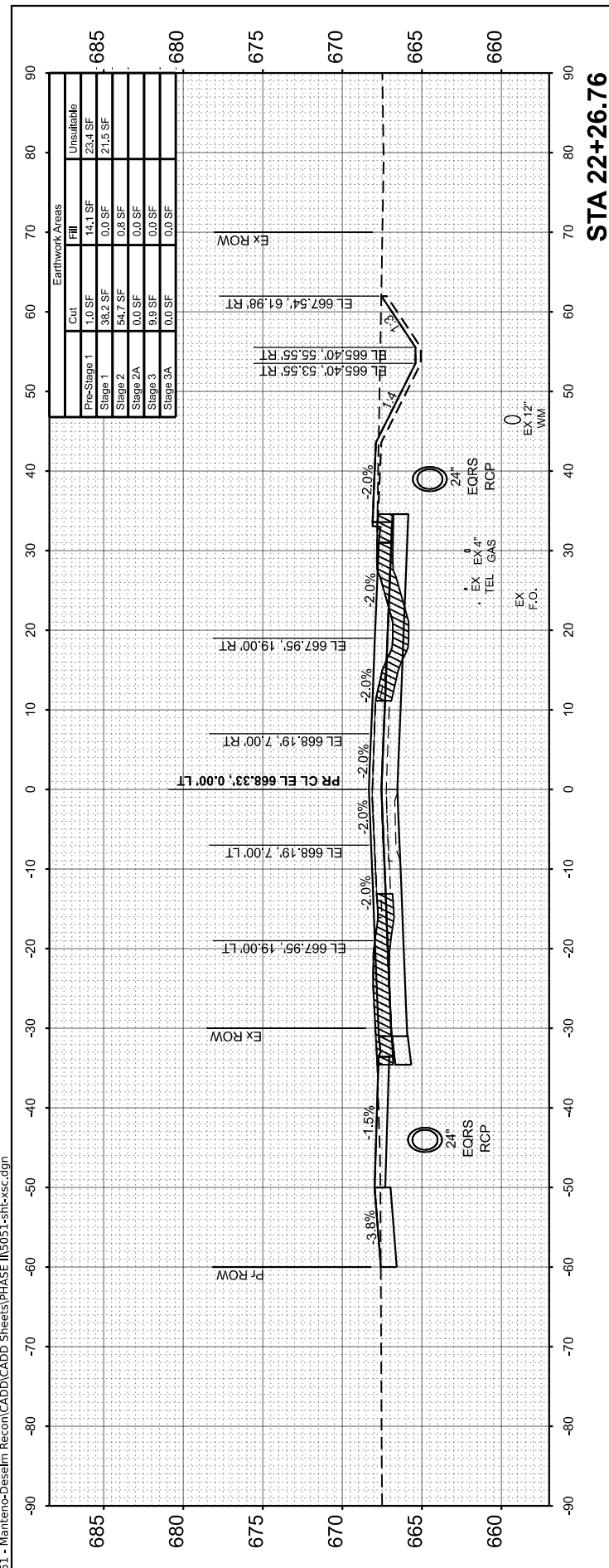


UNSUITABLE MATERIAL

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DESIGNED -  
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 CHECKED -  
 DATE -

REVISED -  
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**KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
 CROSS SECTIONS**

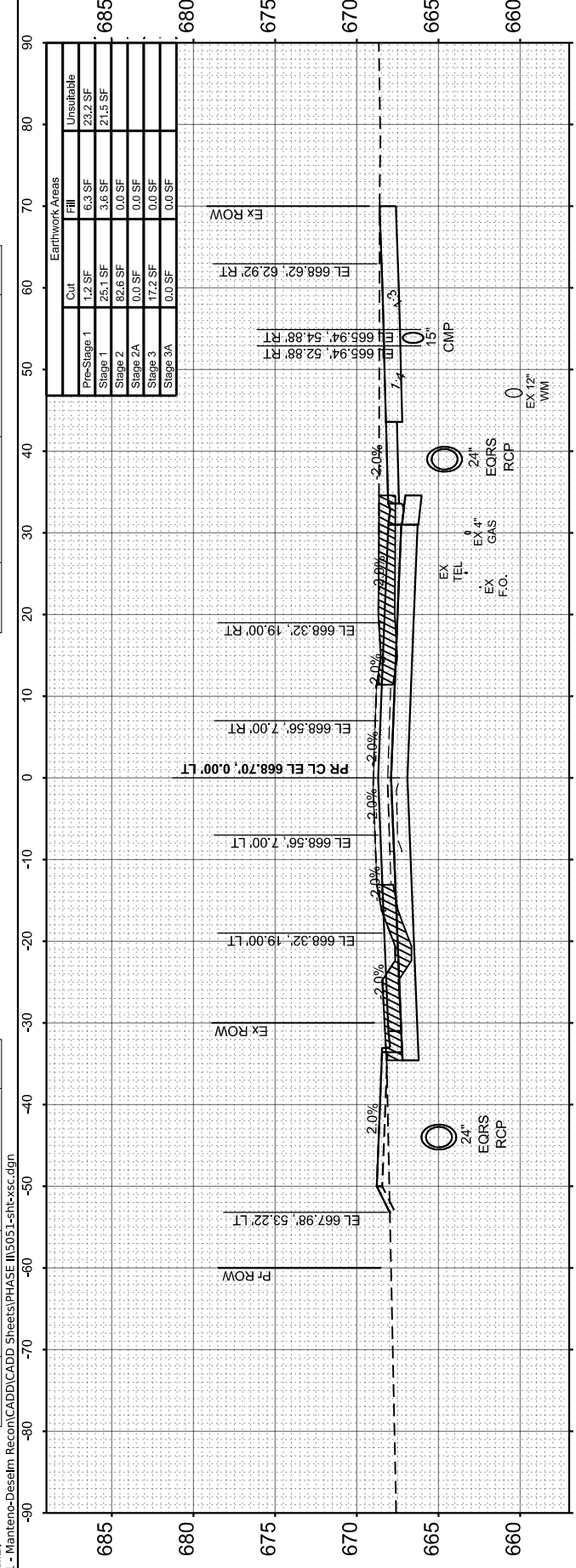
SCALE: H=10 V=5 SHEET 7 OF 43 SHEETS STA. 21+00.00 TO STA. 22+26.76

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	135
				CONTRACT NO. 87805
ILLINOIS / FED. AID PROJECT				

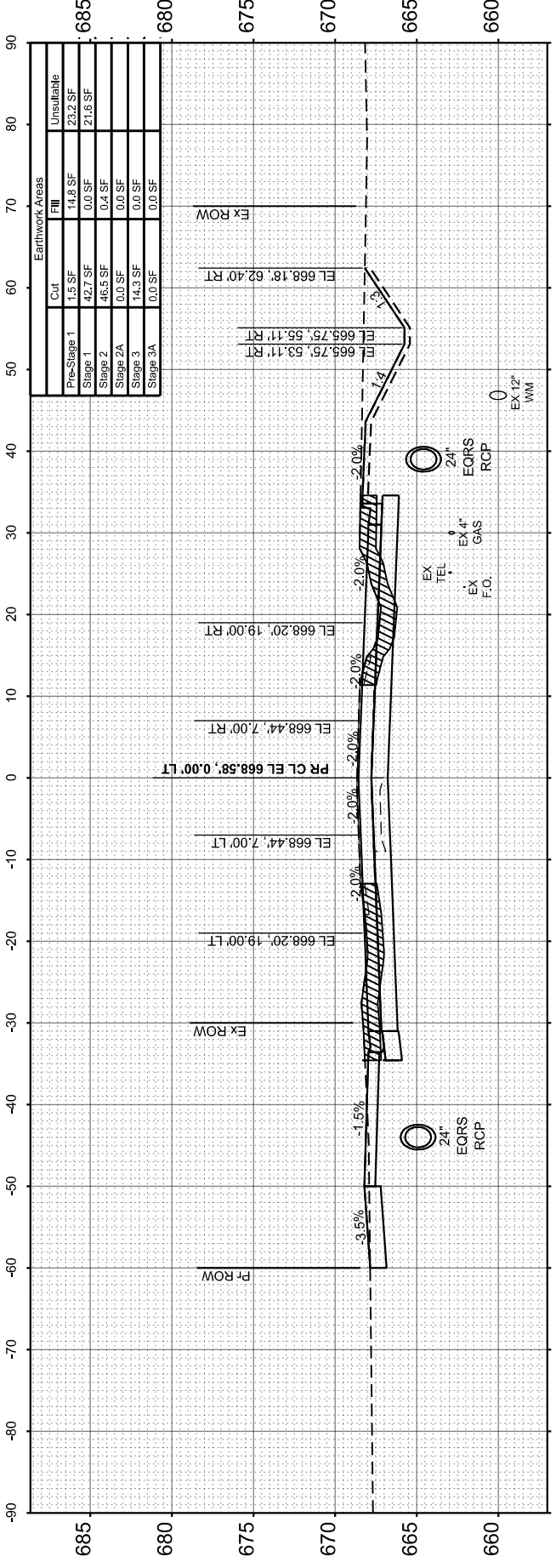
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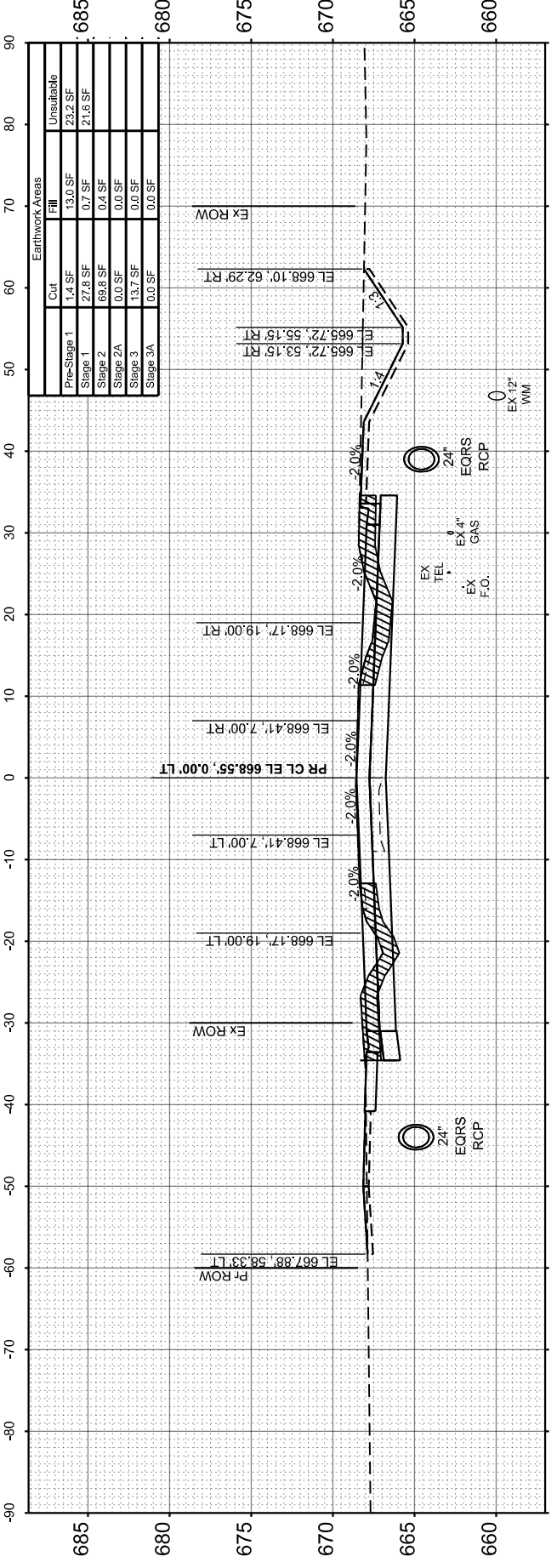
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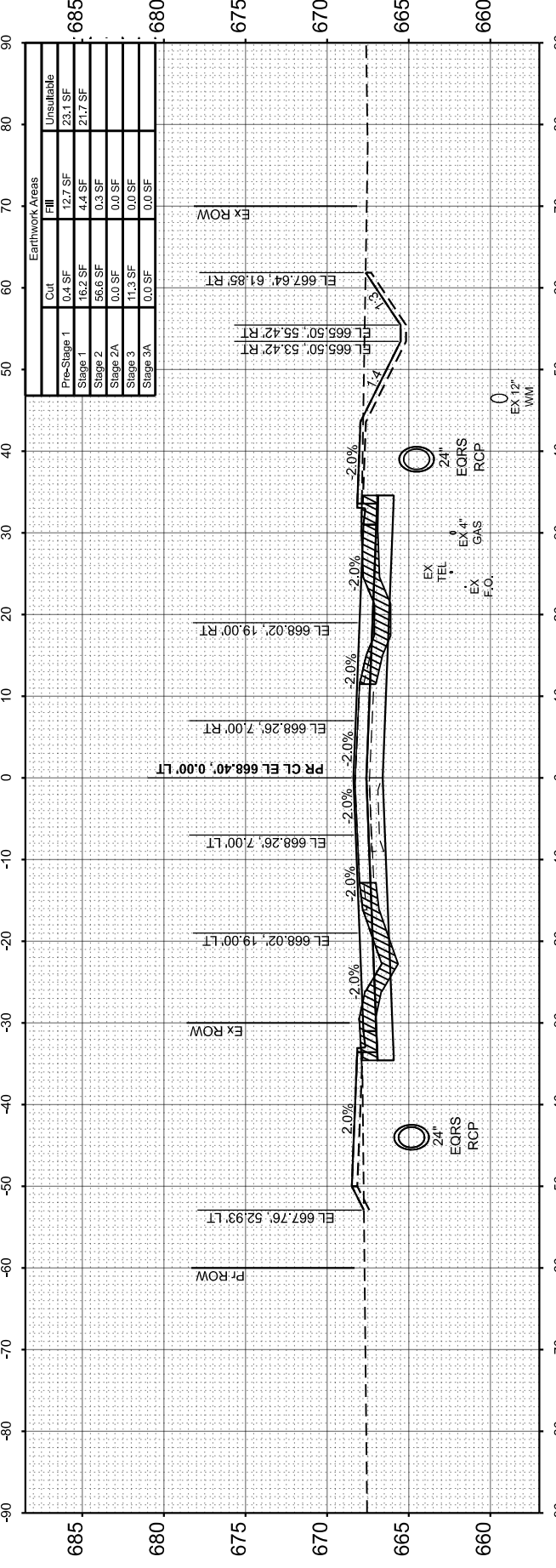
**STA 23+50.00**



**STA 23+08.17**



**STA 23+00.00**



**STA 22+50.00**

**UNSUITABLE MATERIAL**



USER NAME = BDeCrane  
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CHECKED -  
PLOT DATE = 3/21/2024  
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DESIGNED -  
DRAWN -  
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DATE -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5 SHEET 8 OF 43 SHEETS STA. 22+50.00 TO STA. 23+50.00

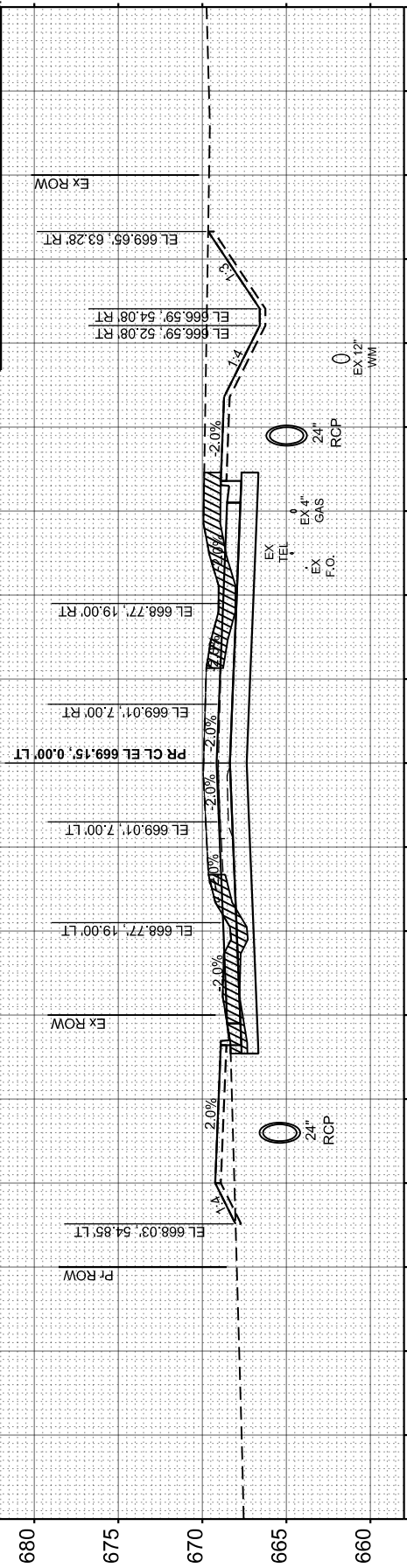
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	136
CONTRACT NO. 87805				
ILLINOIS   FED. AID PROJECT				

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

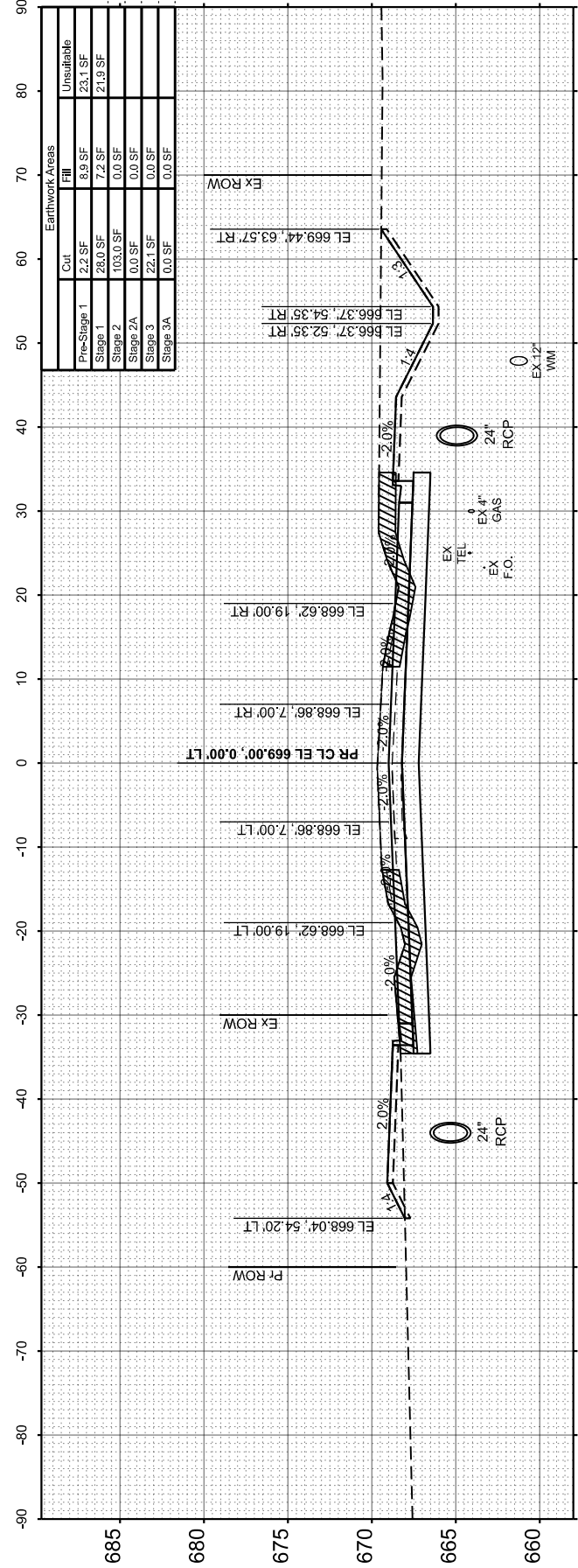
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Earthwork Areas	
Cut	Unsuitable
Pre-Stage 1	9.6 SF
Stage 1	8.3 SF
Stage 2	113.7 SF
Stage 2A	0.0 SF
Stage 3	24.1 SF
Stage 3A	0.0 SF



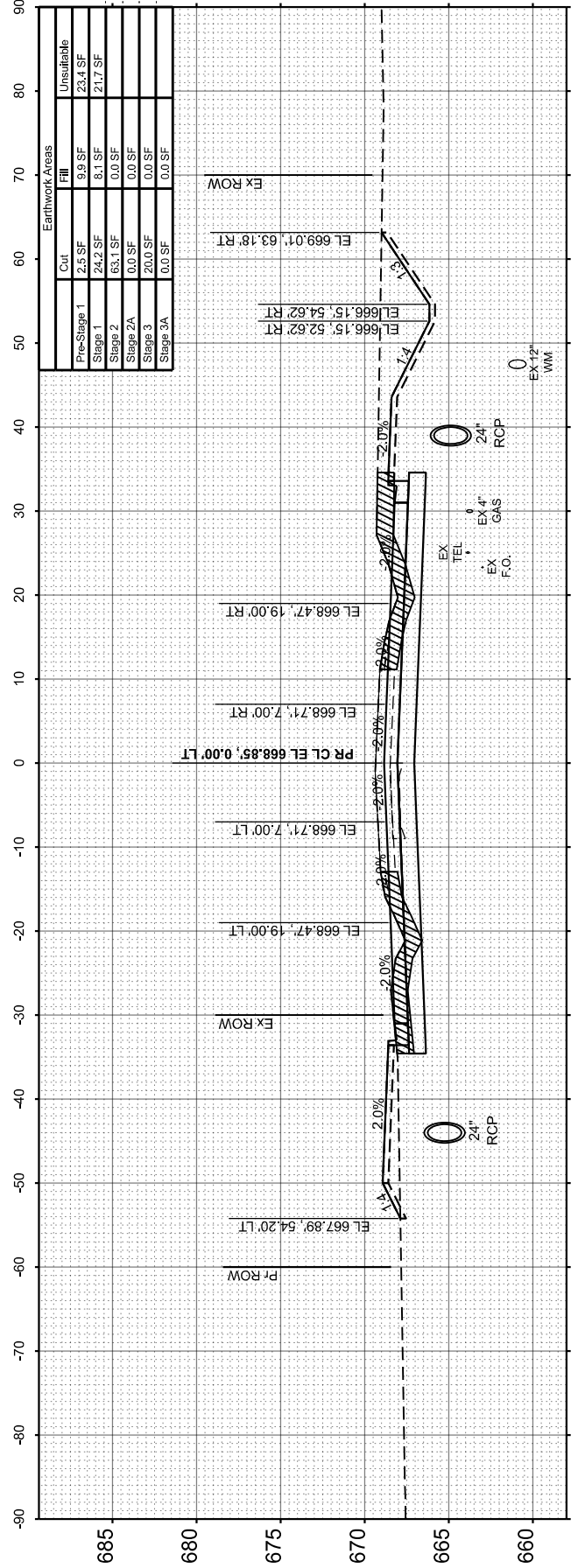
STA 25+00.00

Earthwork Areas	
Cut	Unsuitable
Pre-Stage 1	2.2 SF
Stage 1	28.0 SF
Stage 2	103.0 SF
Stage 3	22.1 SF
Stage 3A	0.0 SF



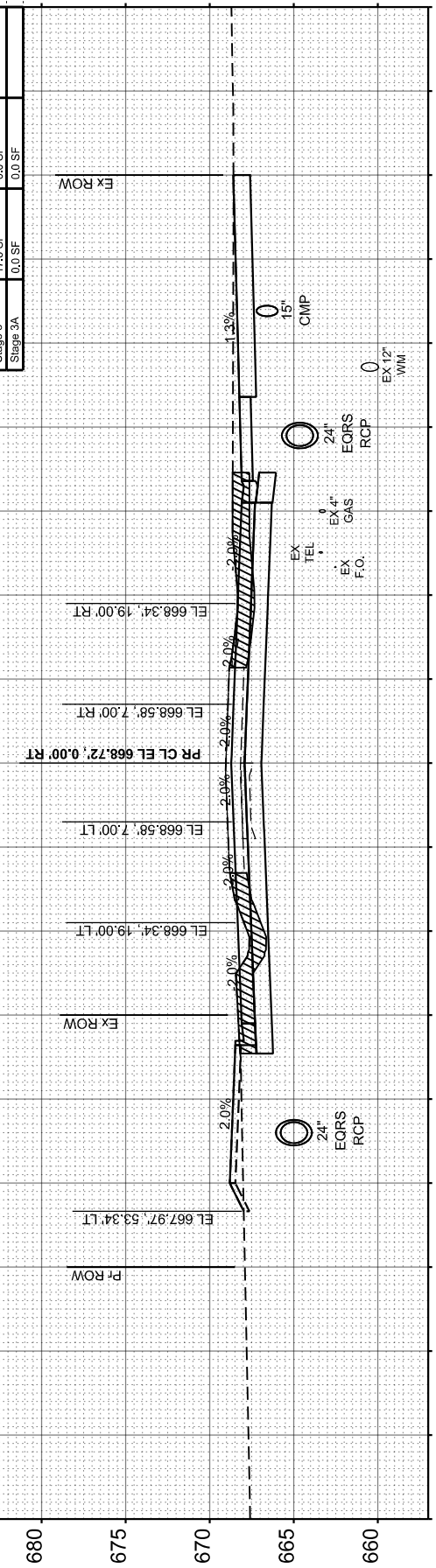
STA 24+50.00

Earthwork Areas	
Cut	Unsuitable
Pre-Stage 1	2.5 SF
Stage 1	24.2 SF
Stage 2	63.1 SF
Stage 2A	0.0 SF
Stage 3	20.0 SF
Stage 3A	0.0 SF



STA 24+00.00

Earthwork Areas	
Cut	Unsuitable
Pre-Stage 1	1.0 SF
Stage 1	24.8 SF
Stage 2	81.7 SF
Stage 2A	0.0 SF
Stage 3	17.6 SF
Stage 3A	0.0 SF



STA 23+56.15

UNSUITABLE MATERIAL



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PLOT DATE	= 3/21/2024
DATE	-

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DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

KANKAKEE COUNTY  
HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS

SCALE: H=10 V=5 SHEET 9 OF 43 SHEETS STA. 23+56.15 TO STA. 25+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	137
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

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

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

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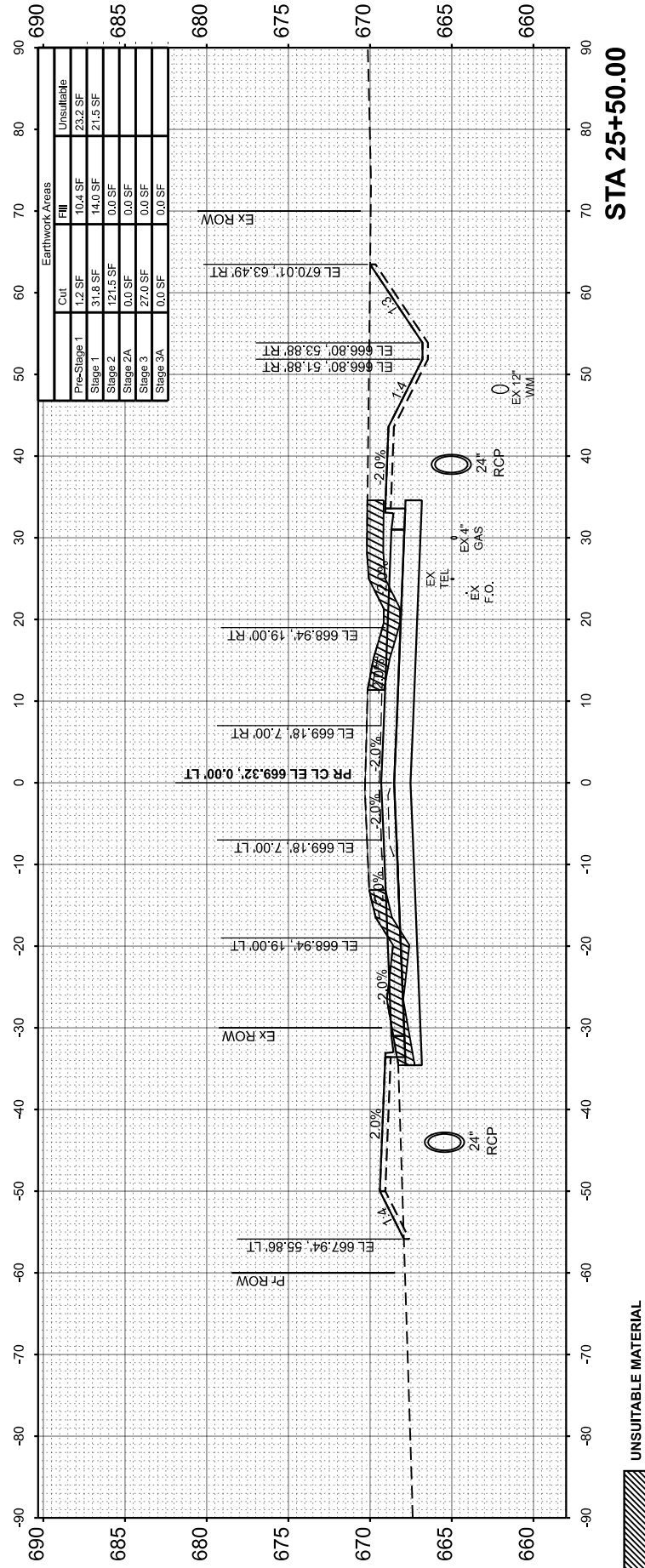
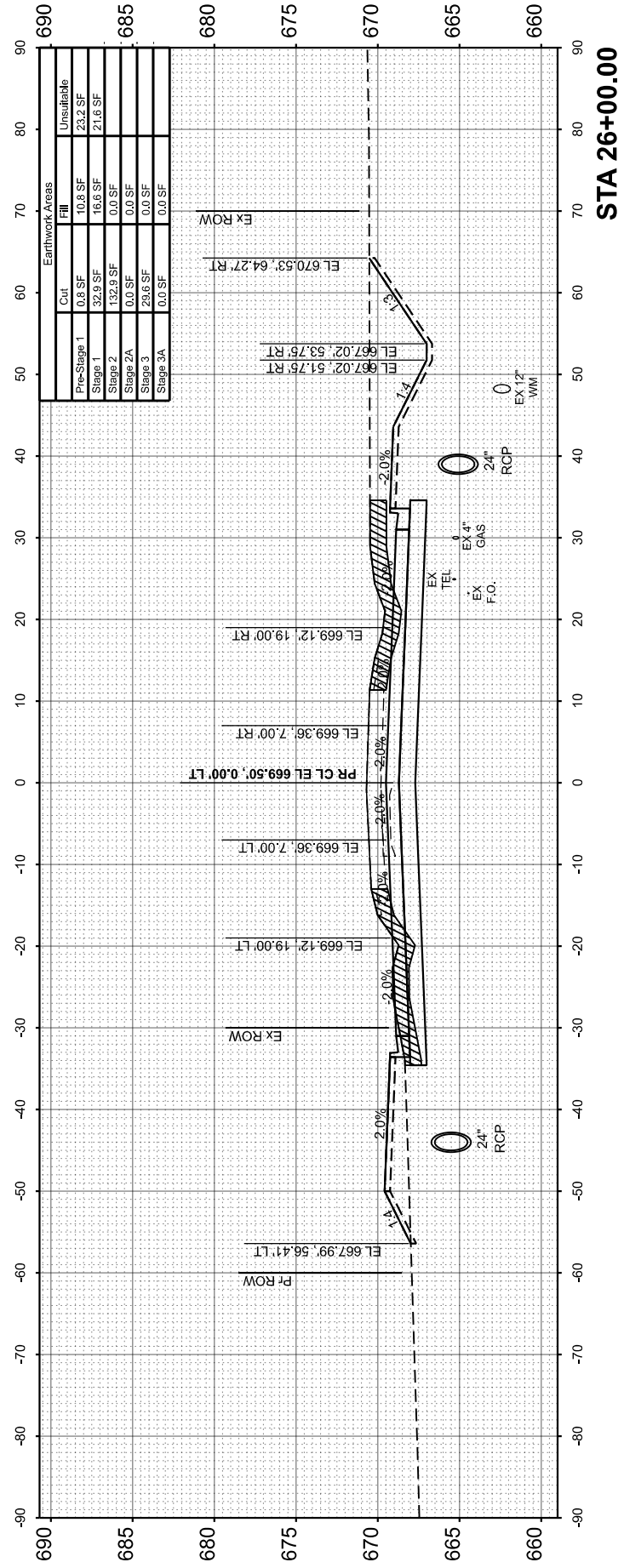
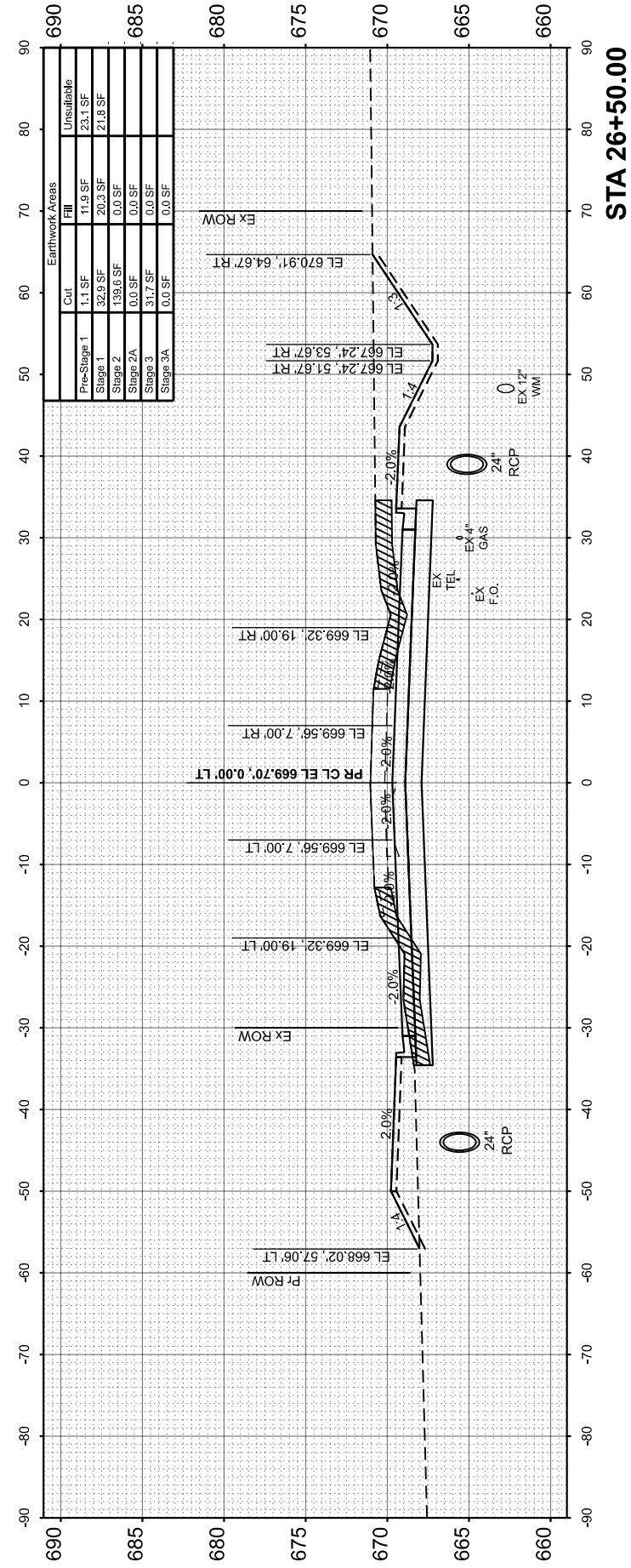
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DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5 SHEET 10 OF 43 SHEETS STA. 25+50.00 TO STA. 26+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	138
				CONTRACT NO. 87805
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

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

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

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DATE	-
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PLOT DATE	= 3/21/2024

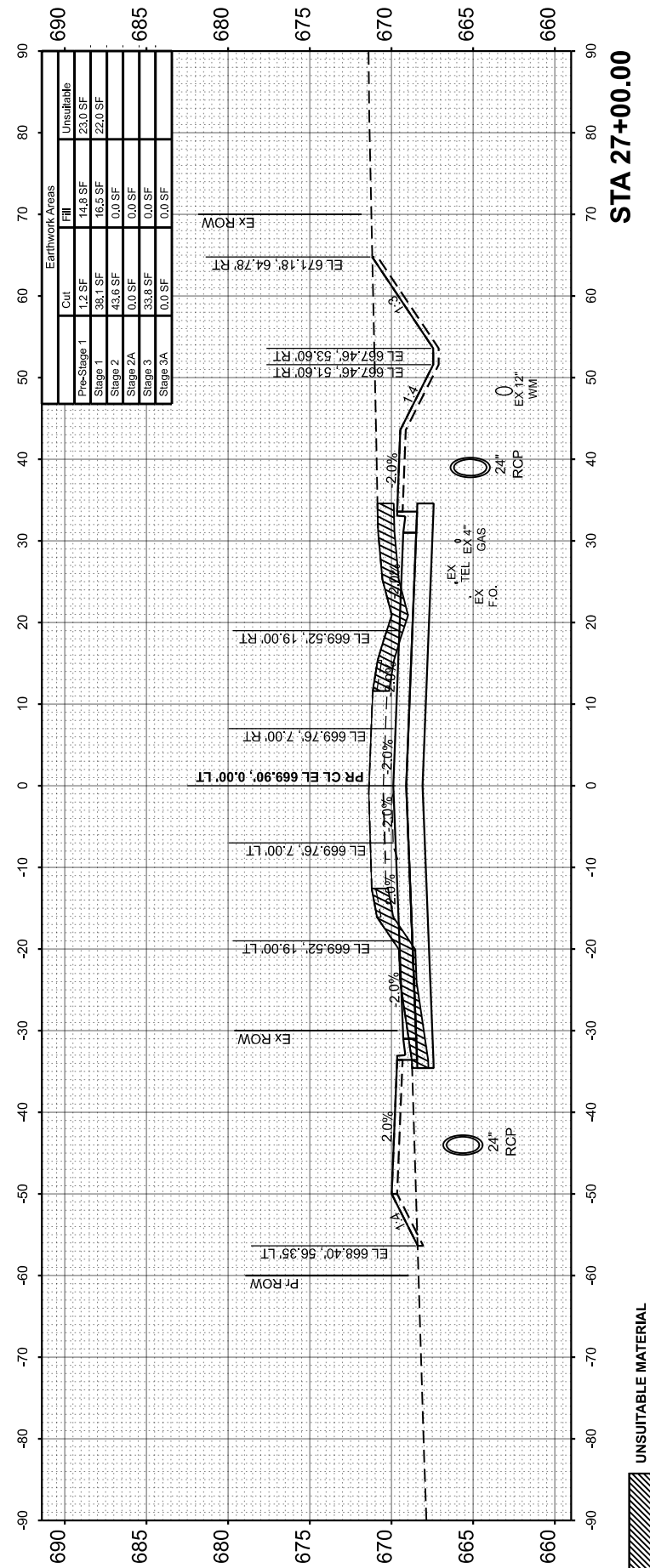
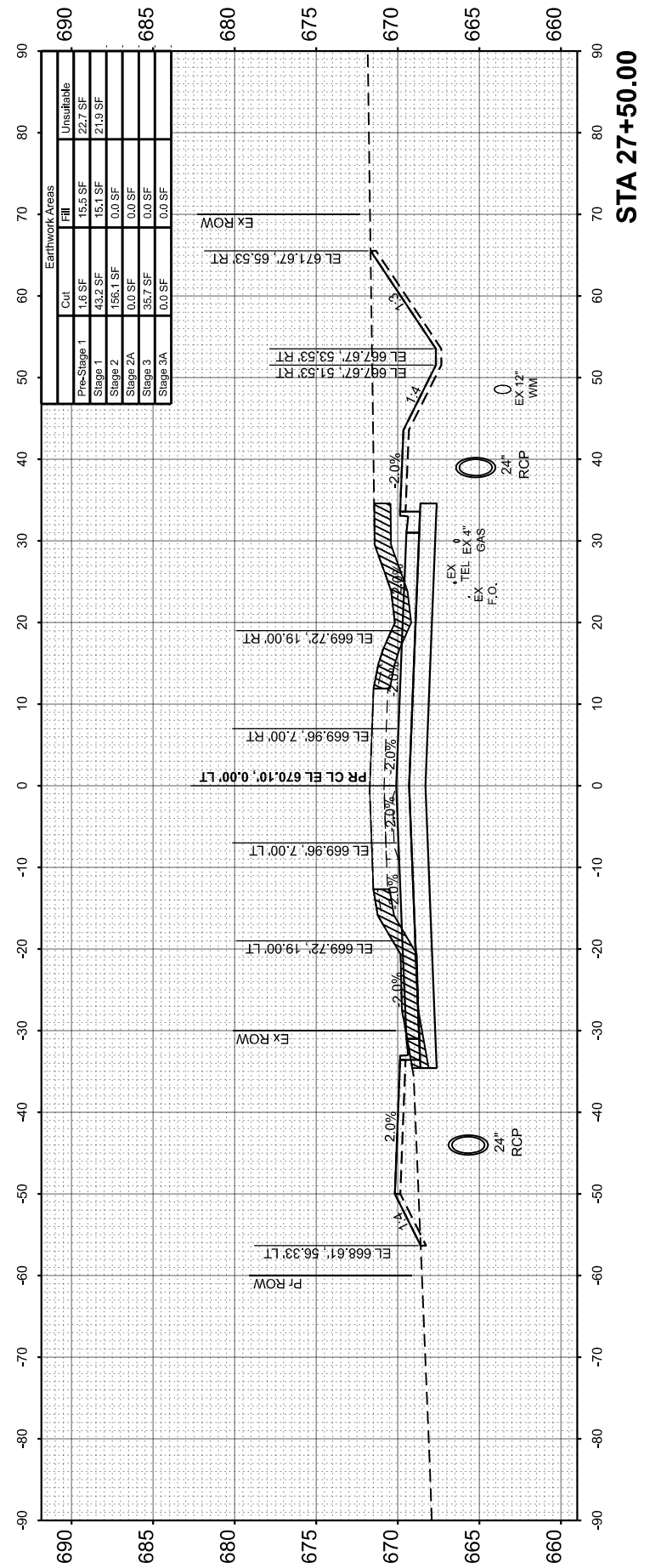
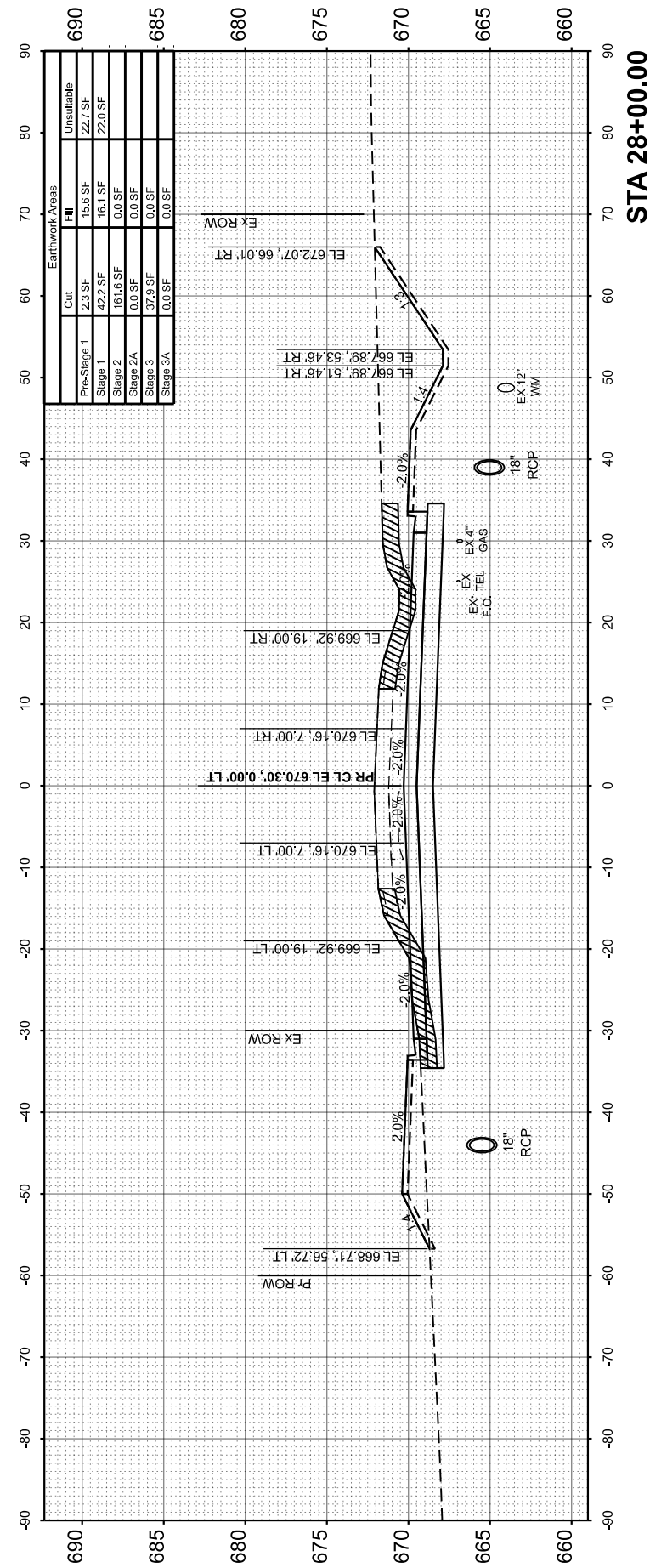
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CHECKED	-	REVISED	-
DATE	-	REVISED	-

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 11    OF 43 SHEETS    STA. 27+00.00    TO STA. 28+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	139
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

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

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

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PLOT DATE =	3/21/2024

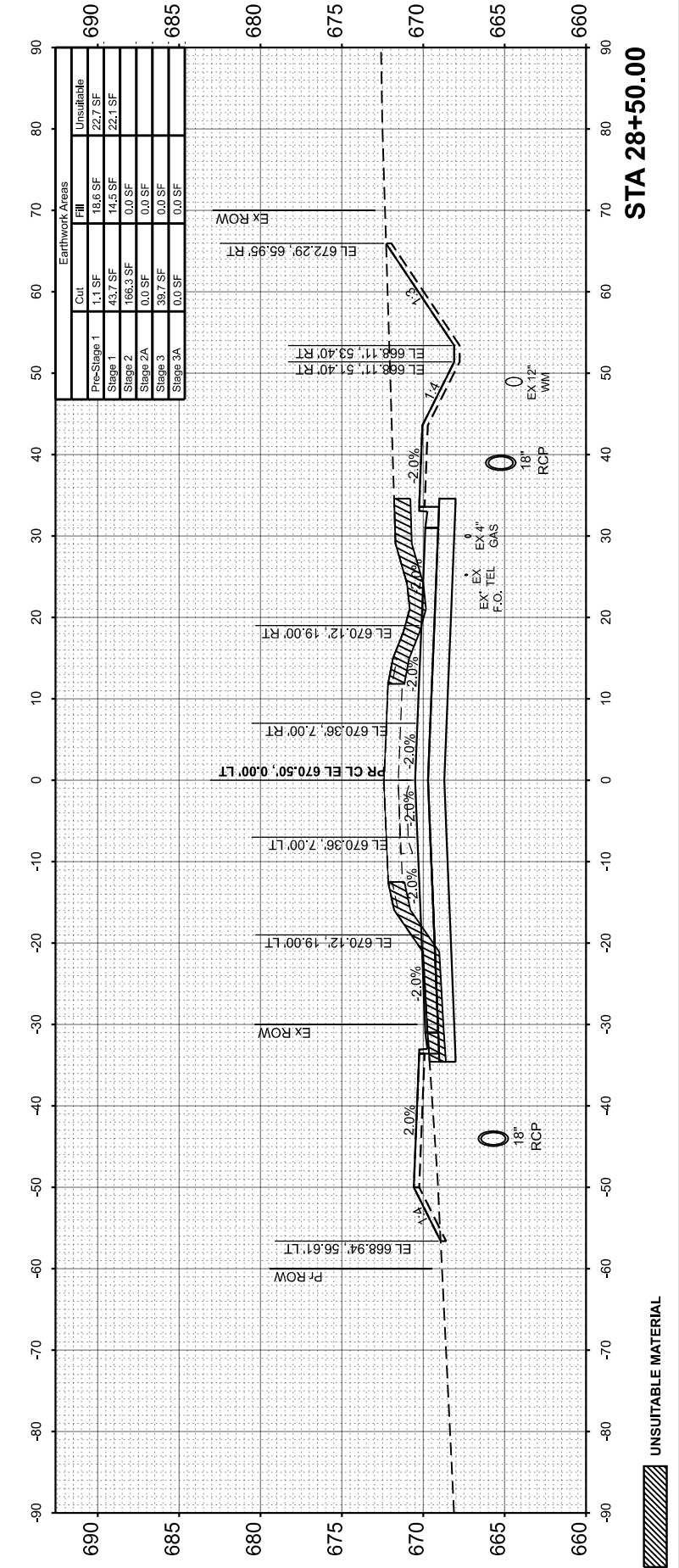
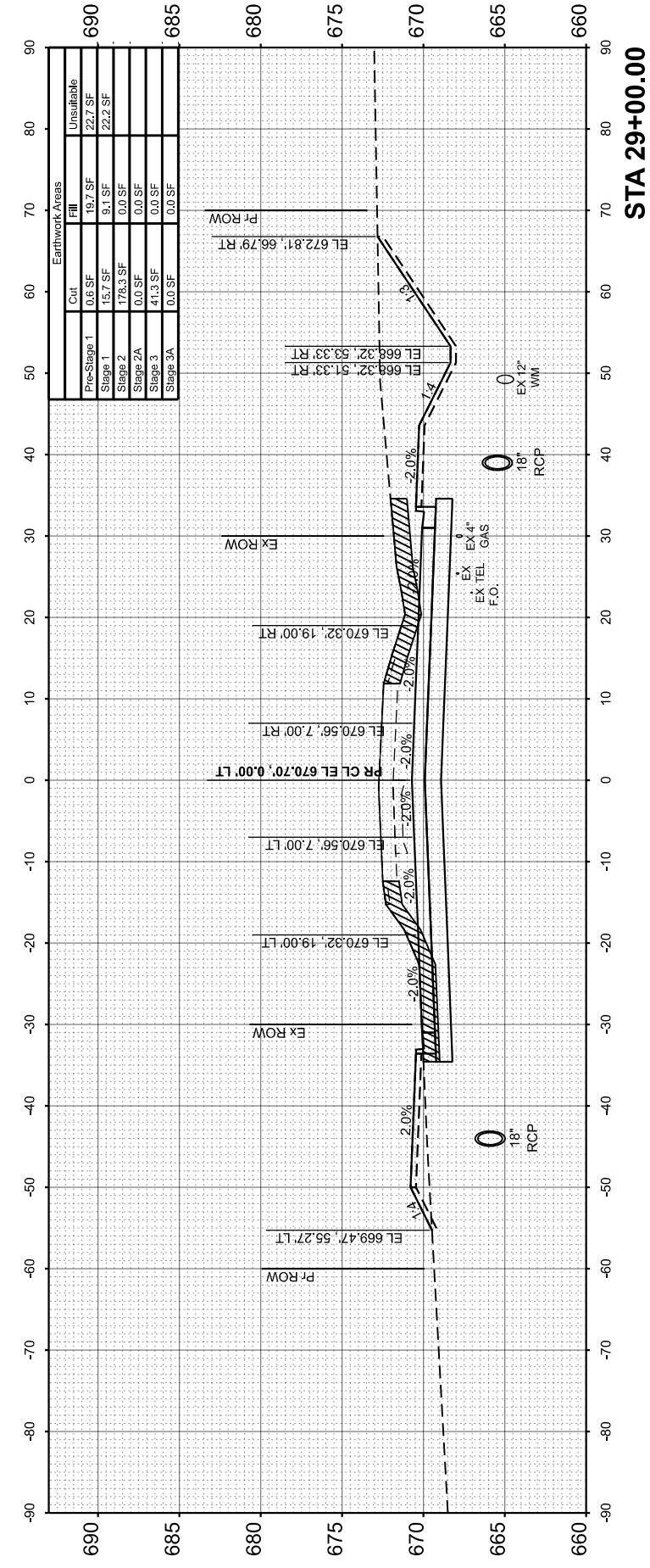
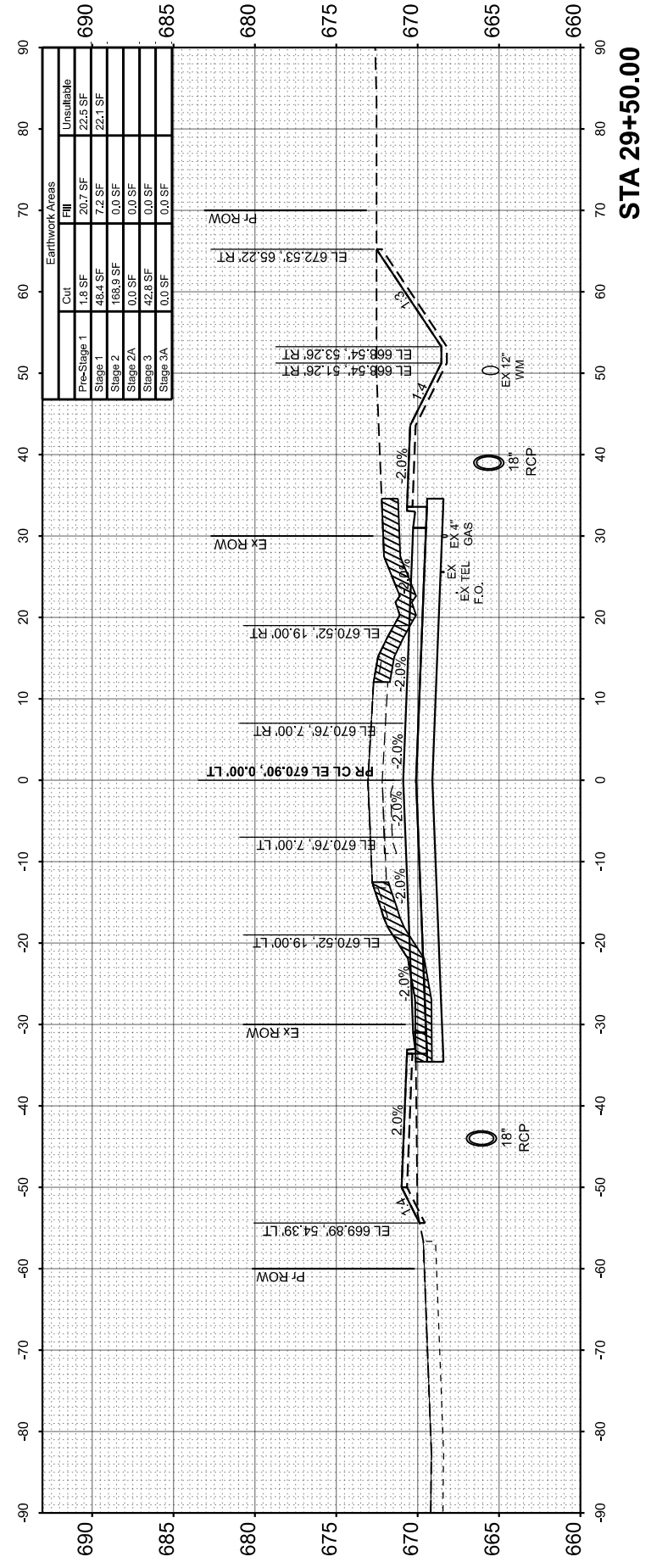
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DATE -	REVISD -

**KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
 CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 12 OF 43 SHEETS    STA. 28+50.00 TO STA. 29+50.00

F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	140
CONTRACT NO. 87805				
ILLINOIS / FED. AID PROJECT				



UNSUITABLE MATERIAL



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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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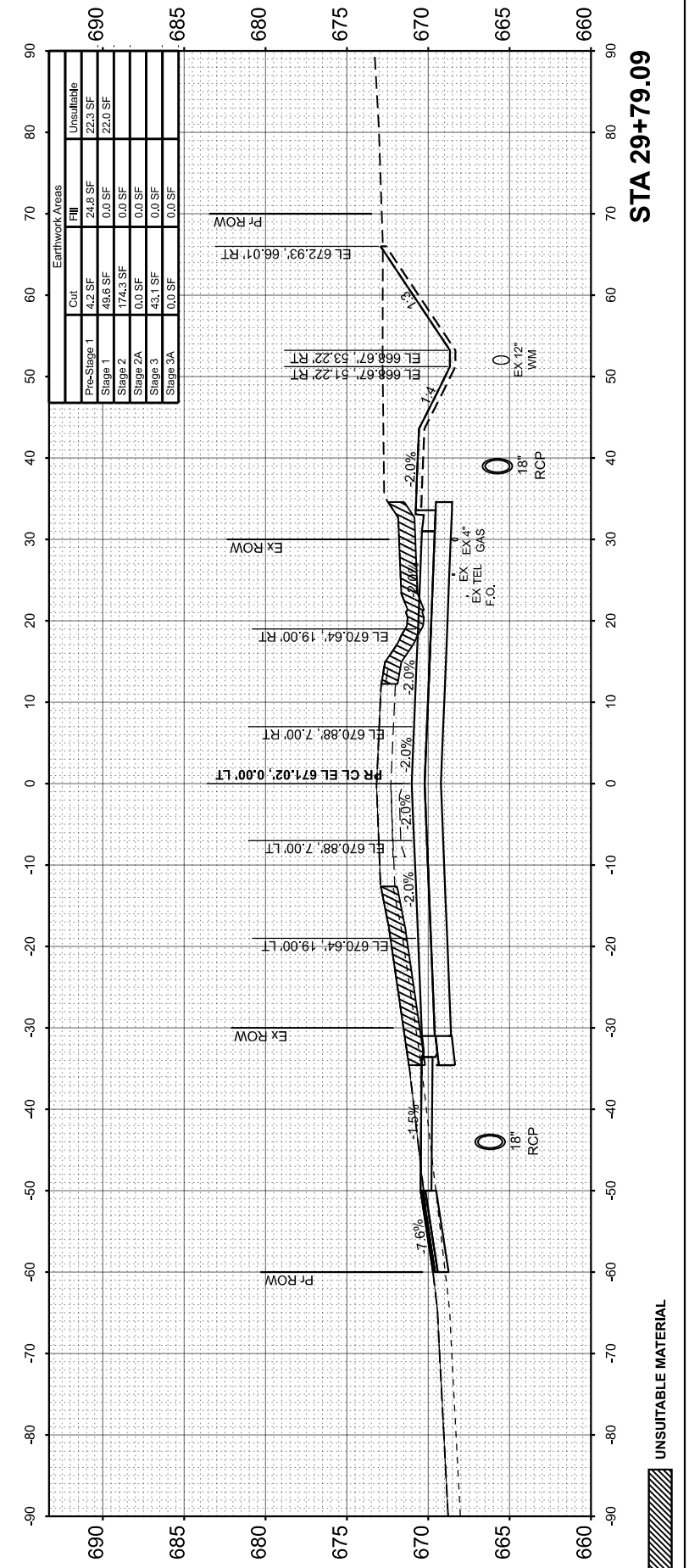
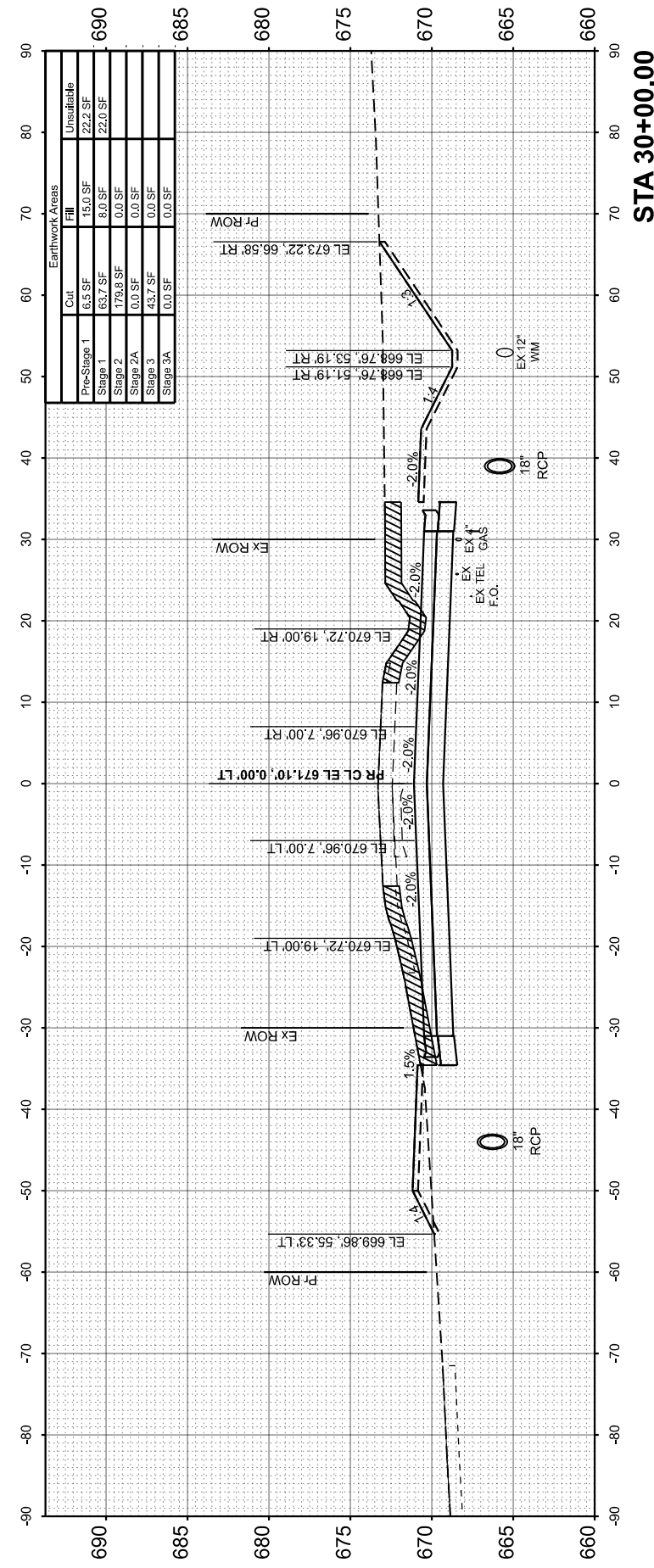
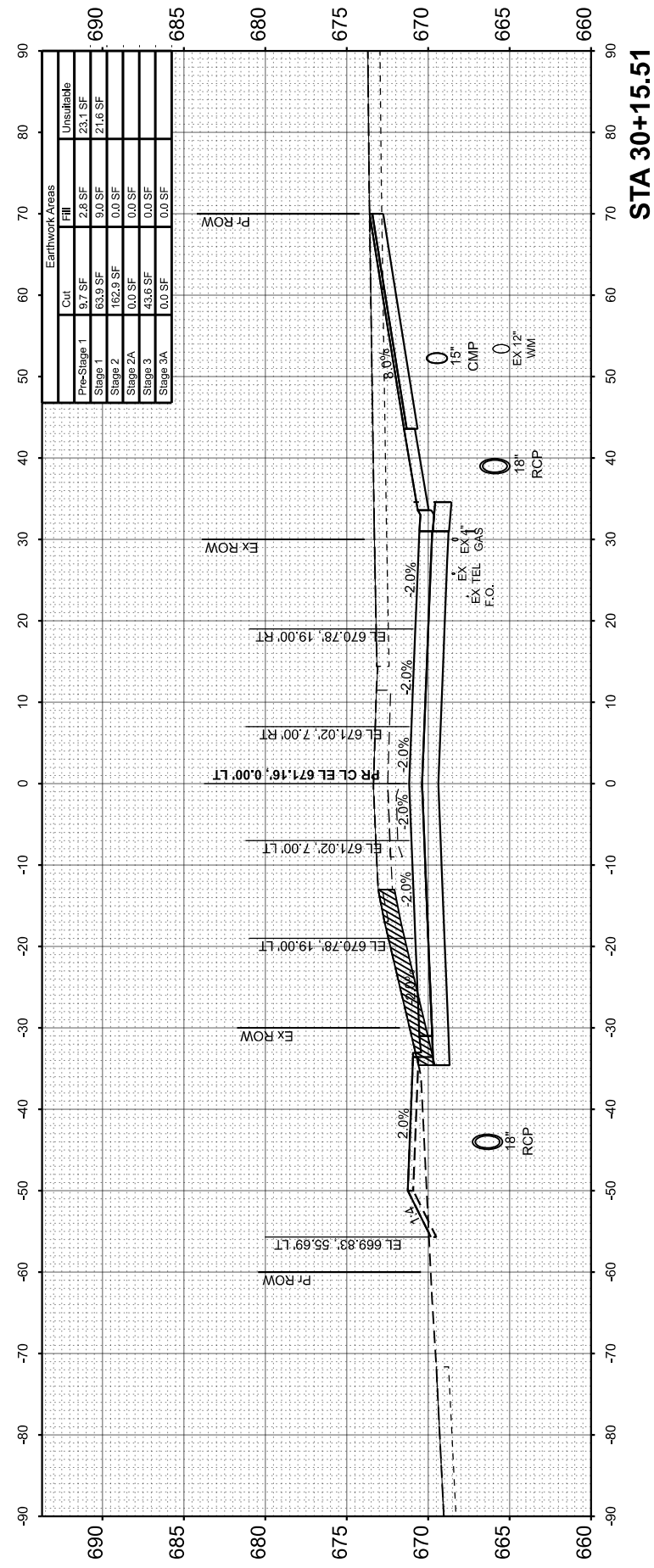
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KANKAKEE COUNTY  
HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS

SCALE: H=10 V=5 SHEET 13 OF 43 SHEETS STA. 29+79.09 TO STA. 30+15.51

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	141
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

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

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NOTE BOOK	PLOTTED		
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PLOT DATE	= 3/21/2024

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DATE	-

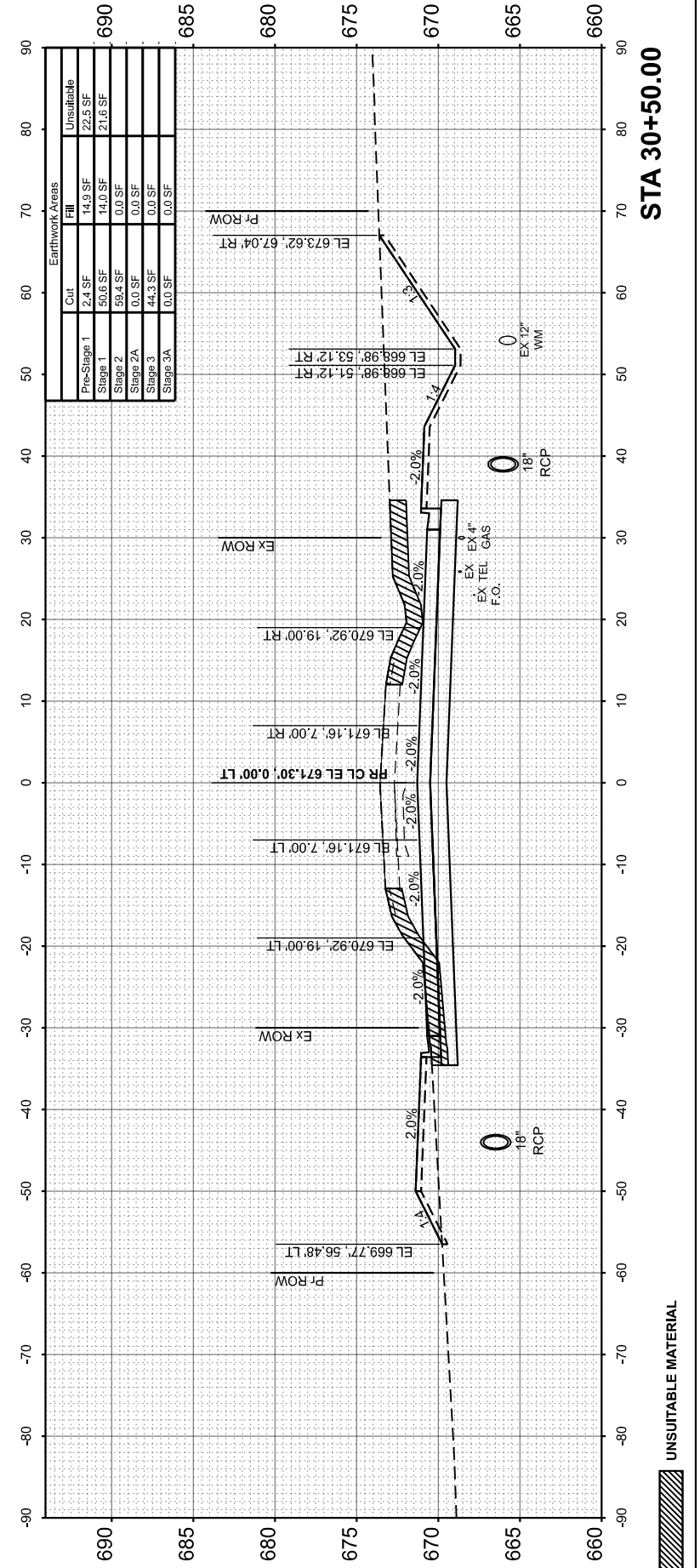
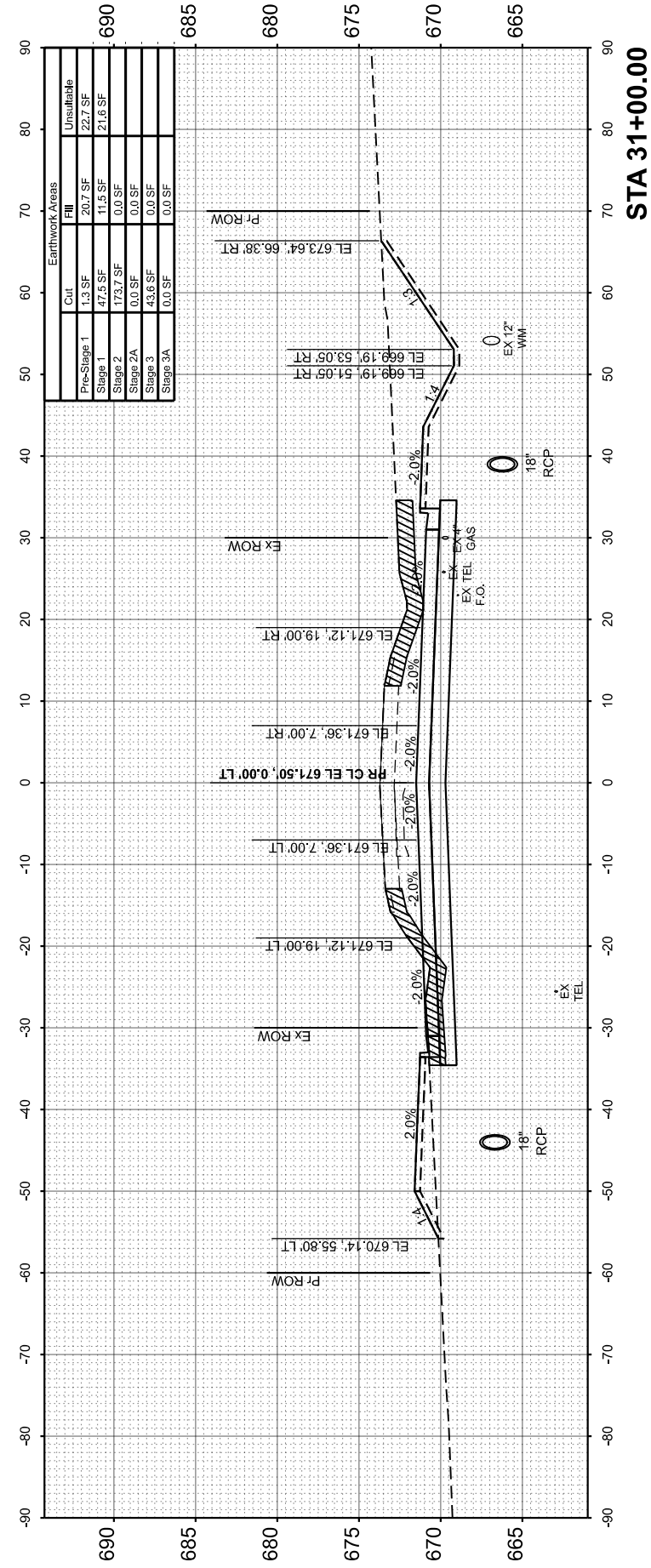
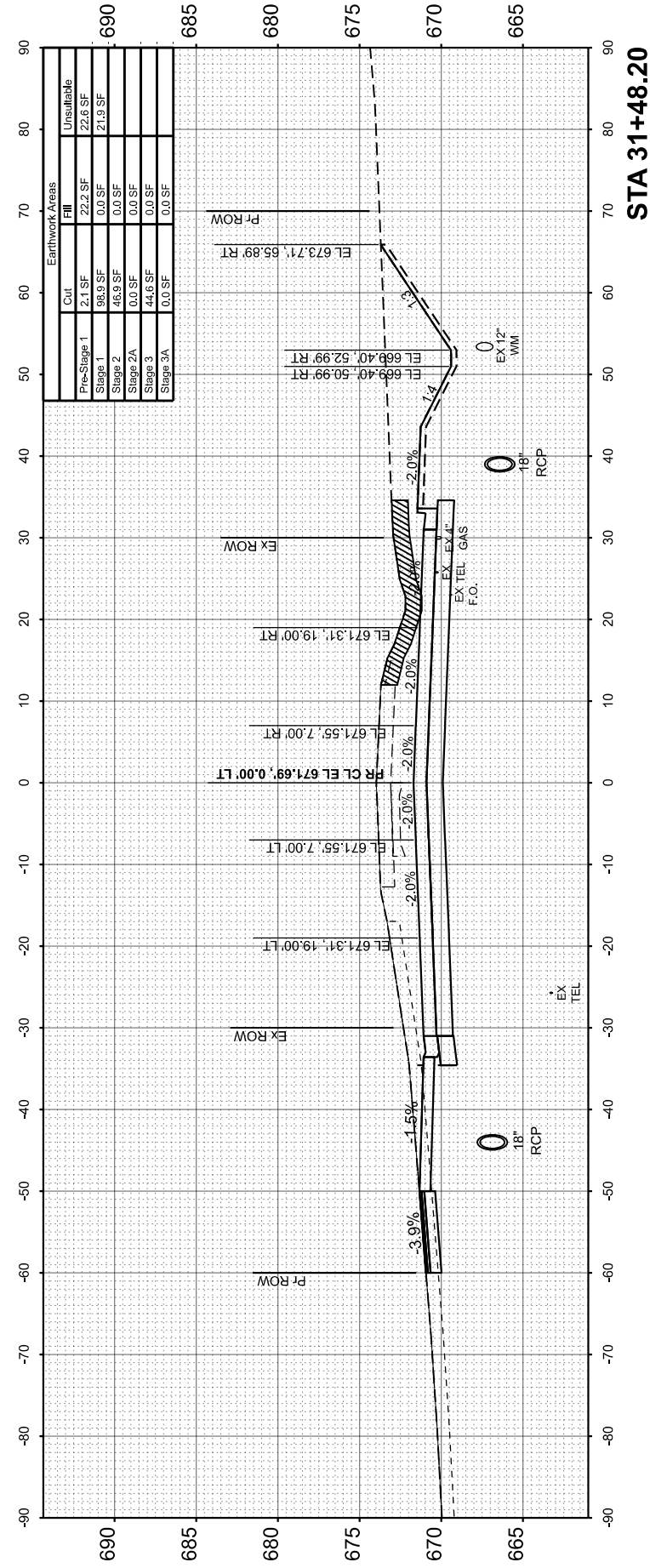
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 14    OF 43 SHEETS    STA. 30+50.00    TO STA. 31+48.20

F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	142
CONTRACT NO. 87805				
ILLINOIS / FED. AID PROJECT				



UNSUITABLE MATERIAL

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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PLOT DATE	= 3/21/2024

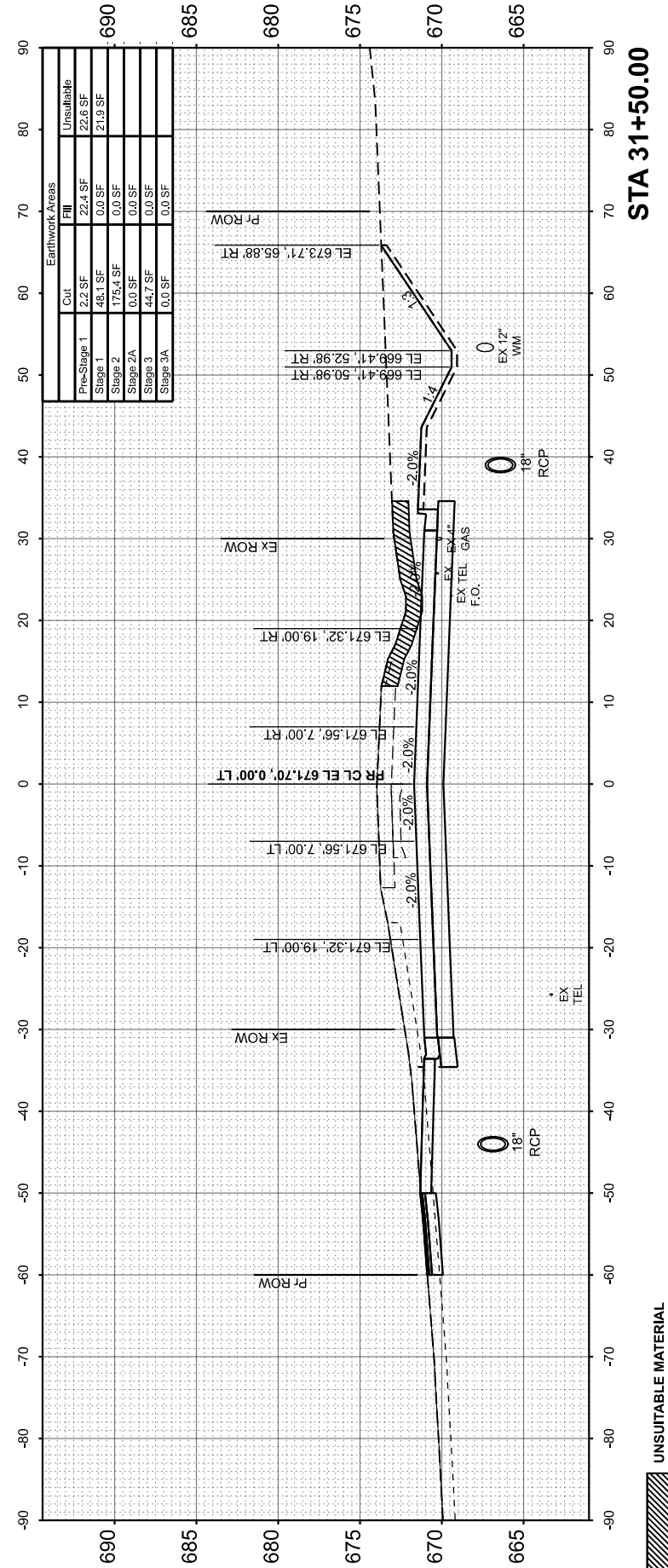
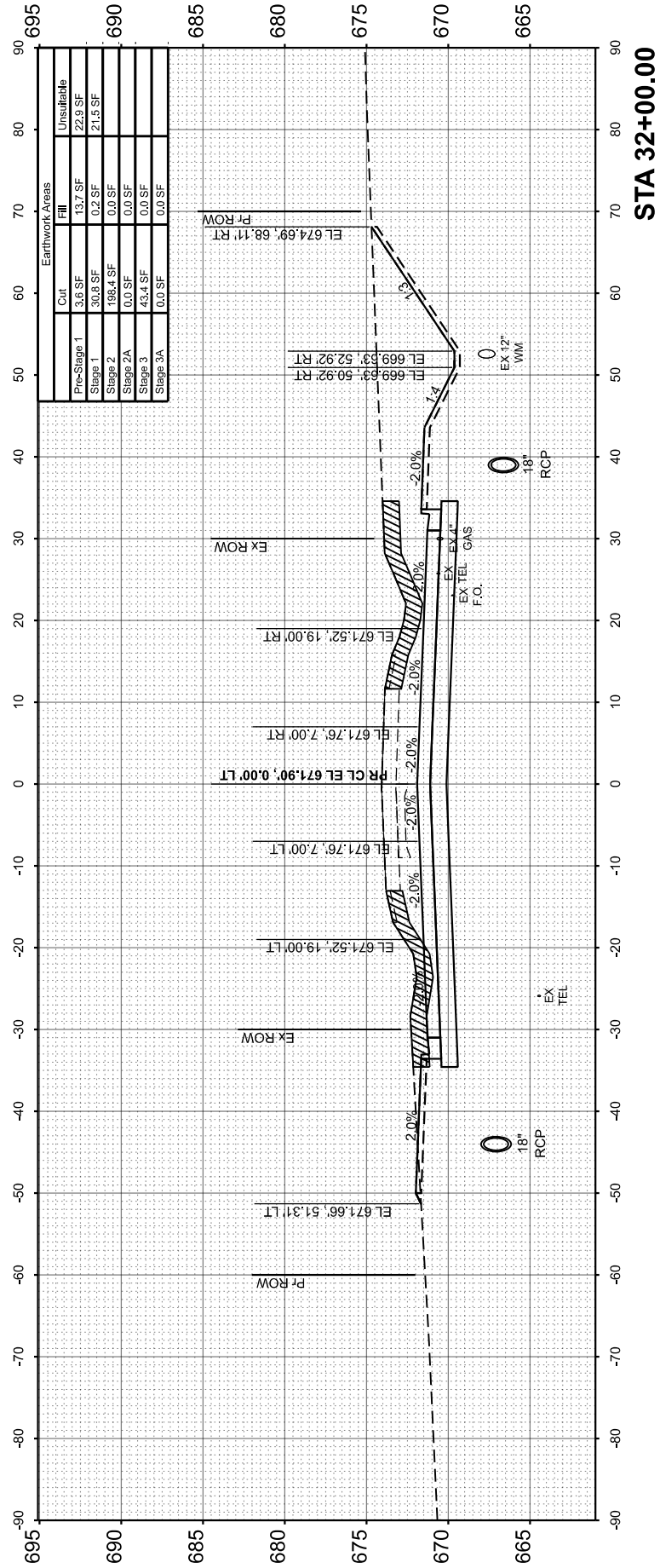
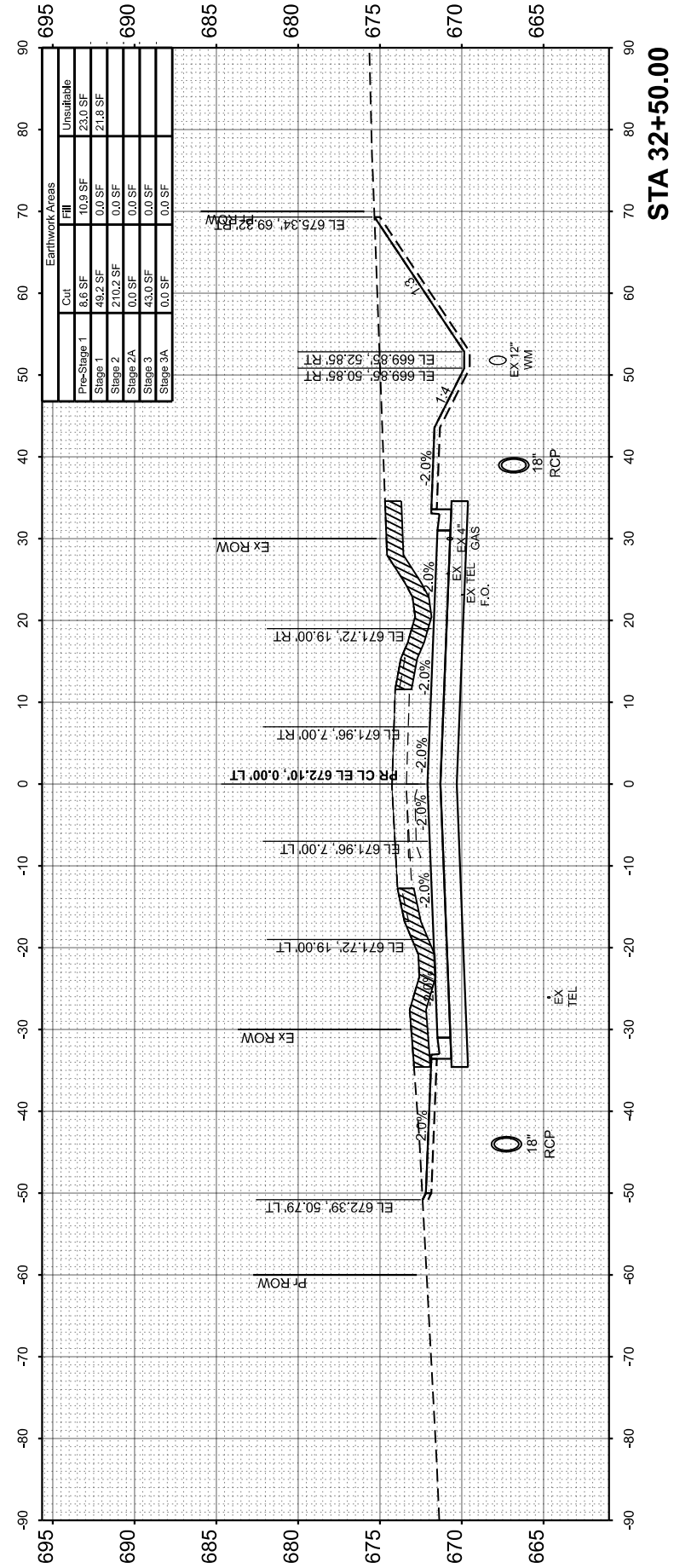
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DATE	-	REVISED	-

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 15    OF 43 SHEETS    STA. 31+50.00    TO STA. 32+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	143
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

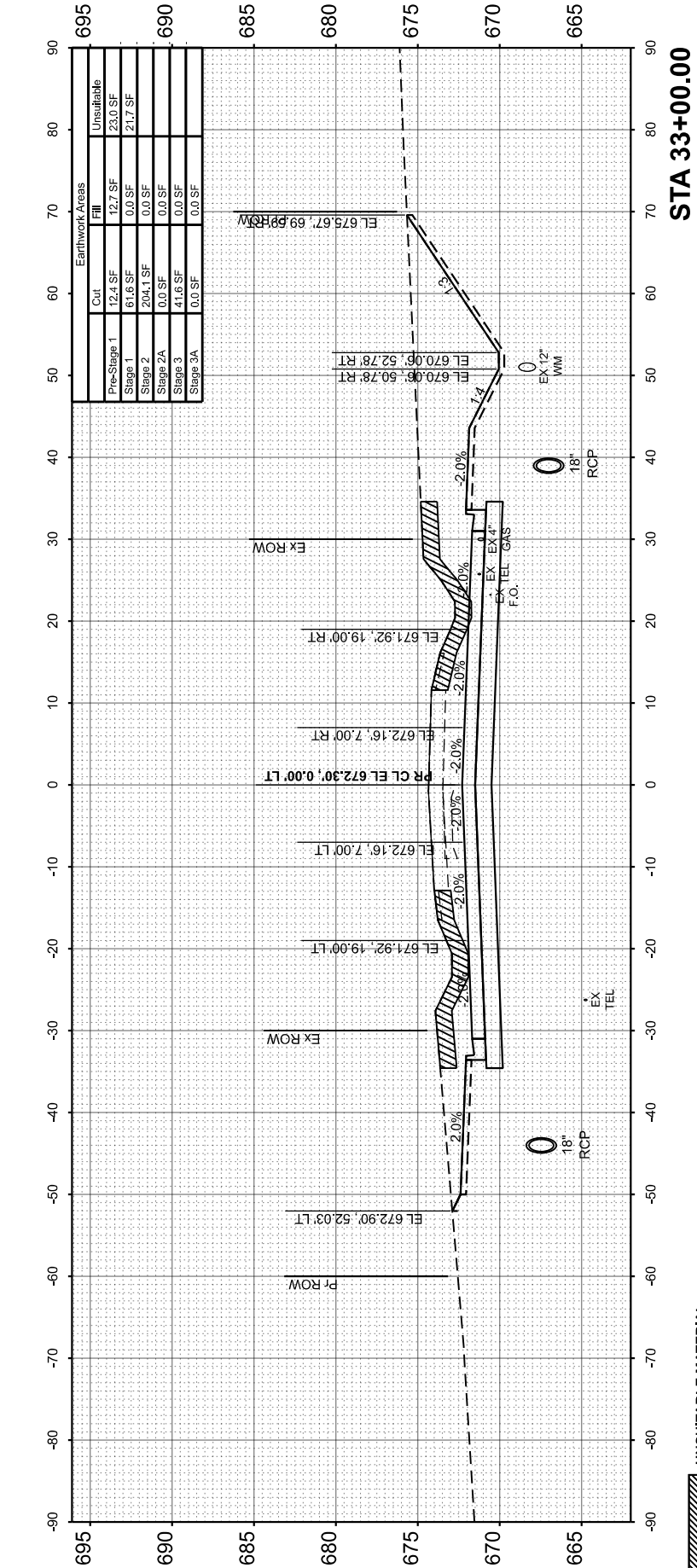
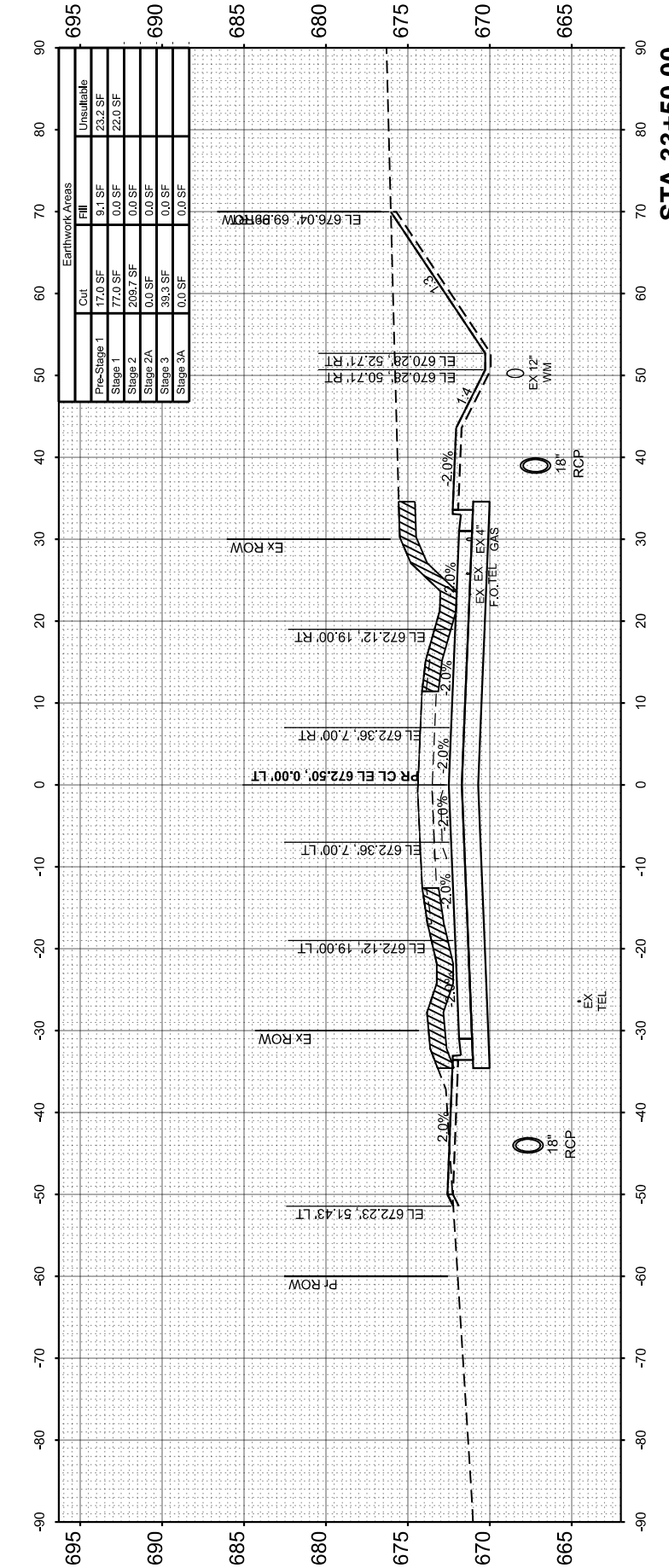
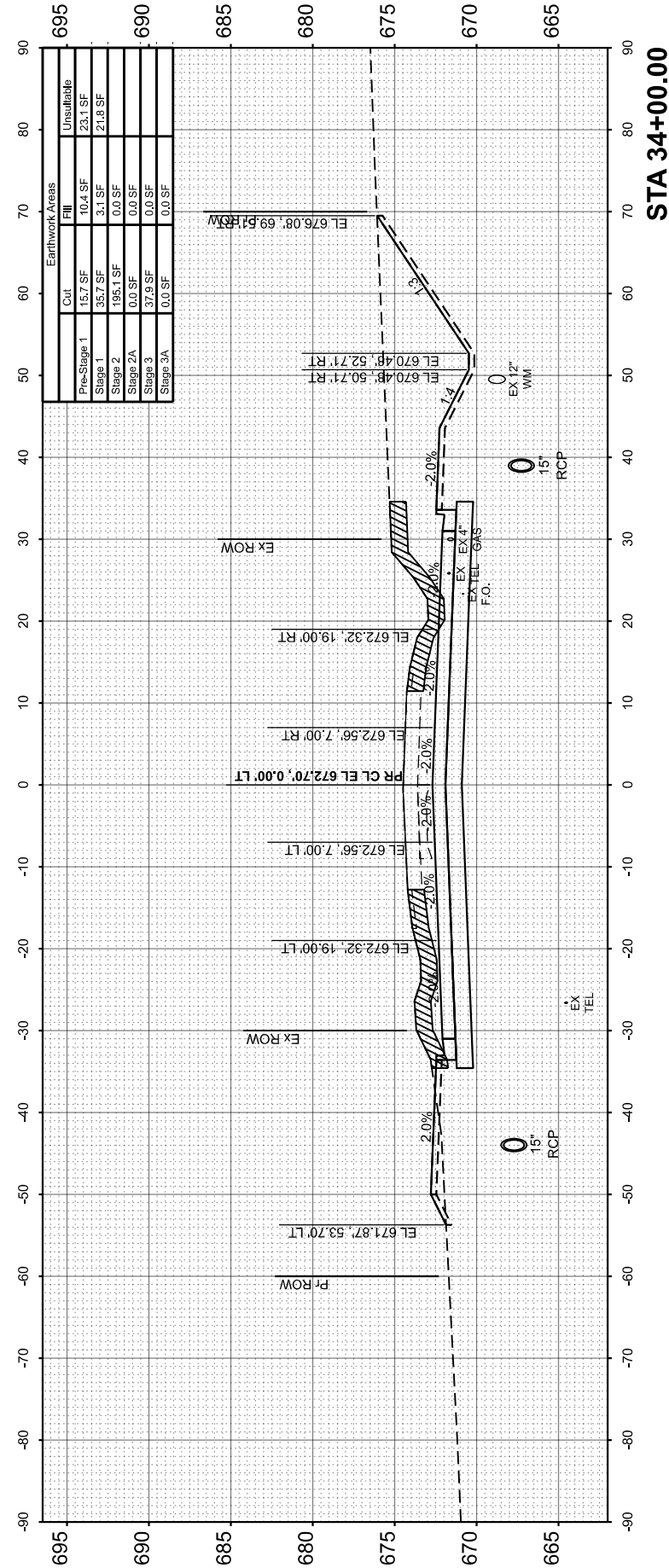


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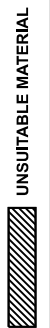
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5 SHEET 16 OF 43 SHEETS STA. 33+00.00 TO STA. 34+00.00

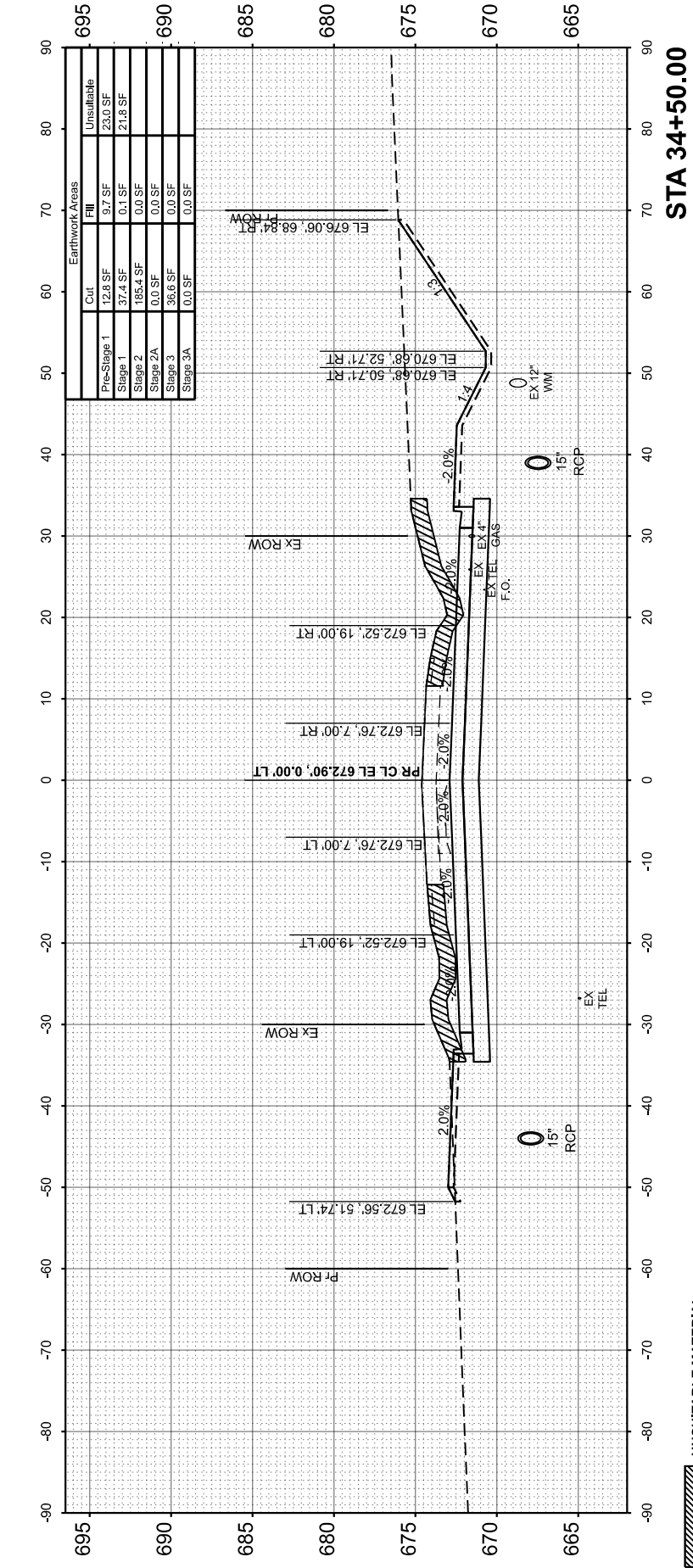
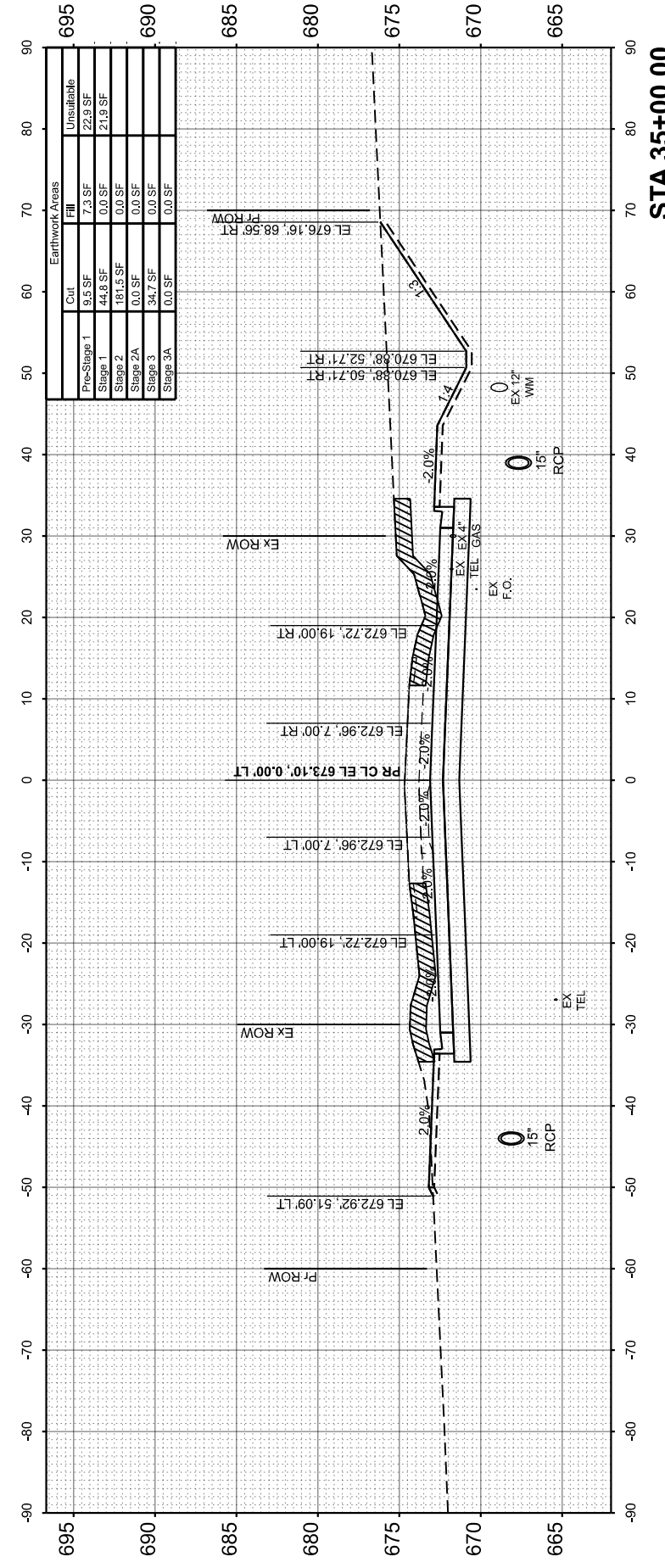
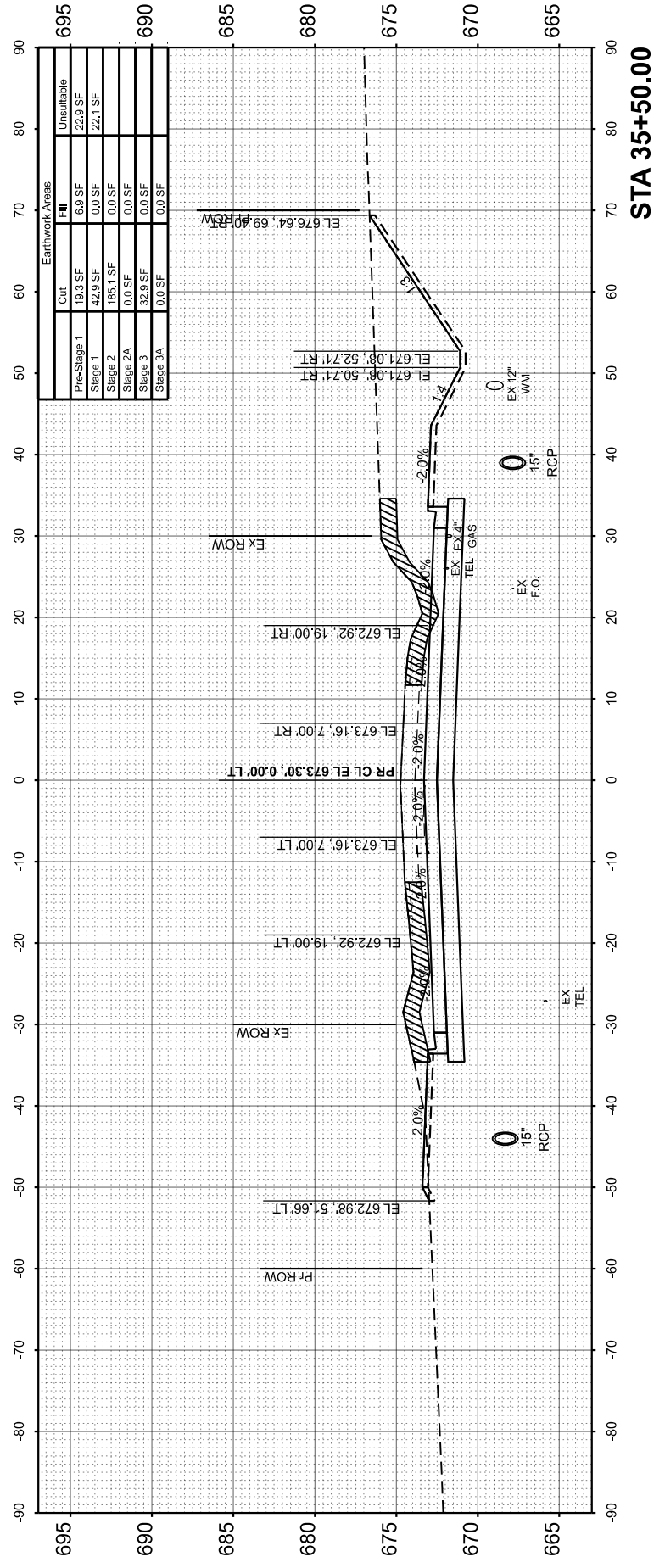
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311	08-00286-00-FP	KANKAKEE	173	144
				CONTRACT NO. 87805
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY	SURVEYED	BY	DATE
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NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
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PLOT DATE = 3/21/2024  
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KANKAKEE COUNTY  
HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS

SCALE: H=10 V=5 SHEET 17 OF 43 SHEETS STA. 34+50.00 TO STA. 35+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	145
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

UNSUITABLE MATERIAL

FINAL SURVEY	SURVEYED	BY	DATE
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NOTE BOOK	PLOTTED		
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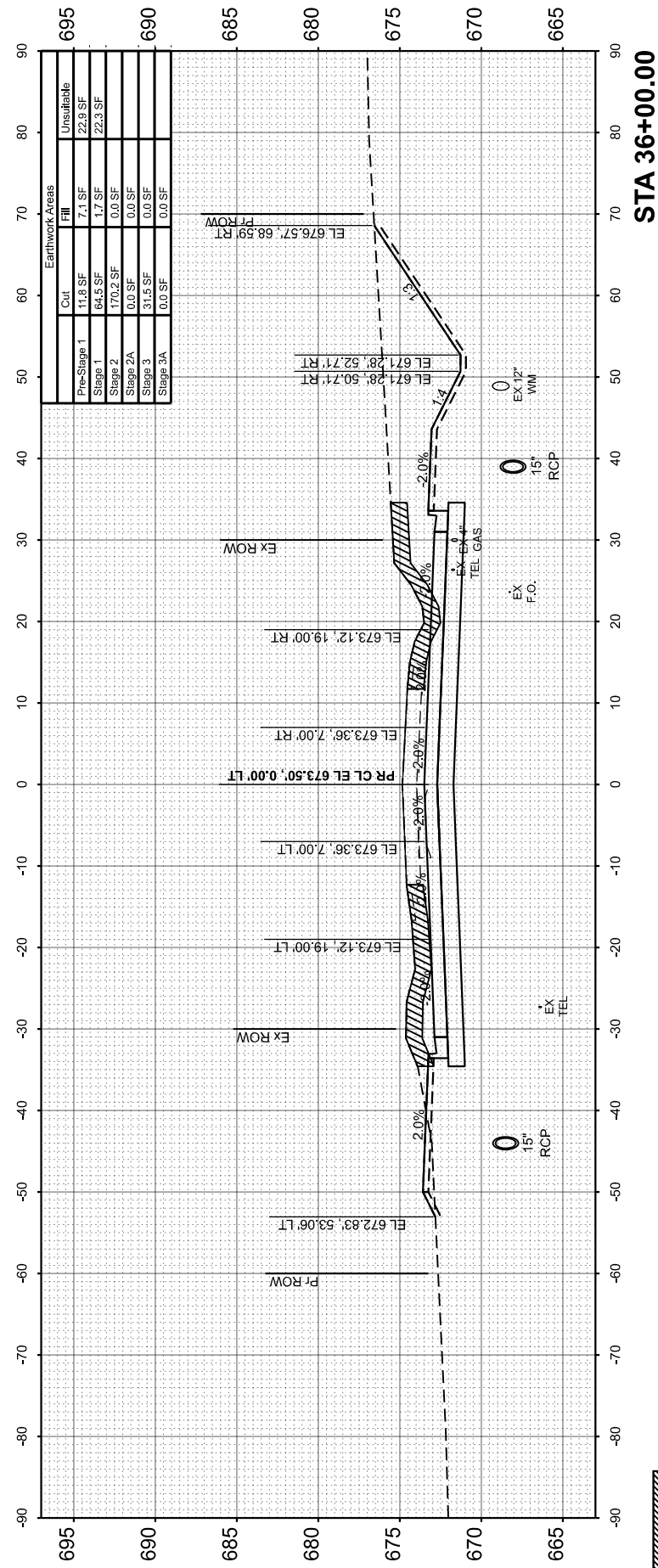
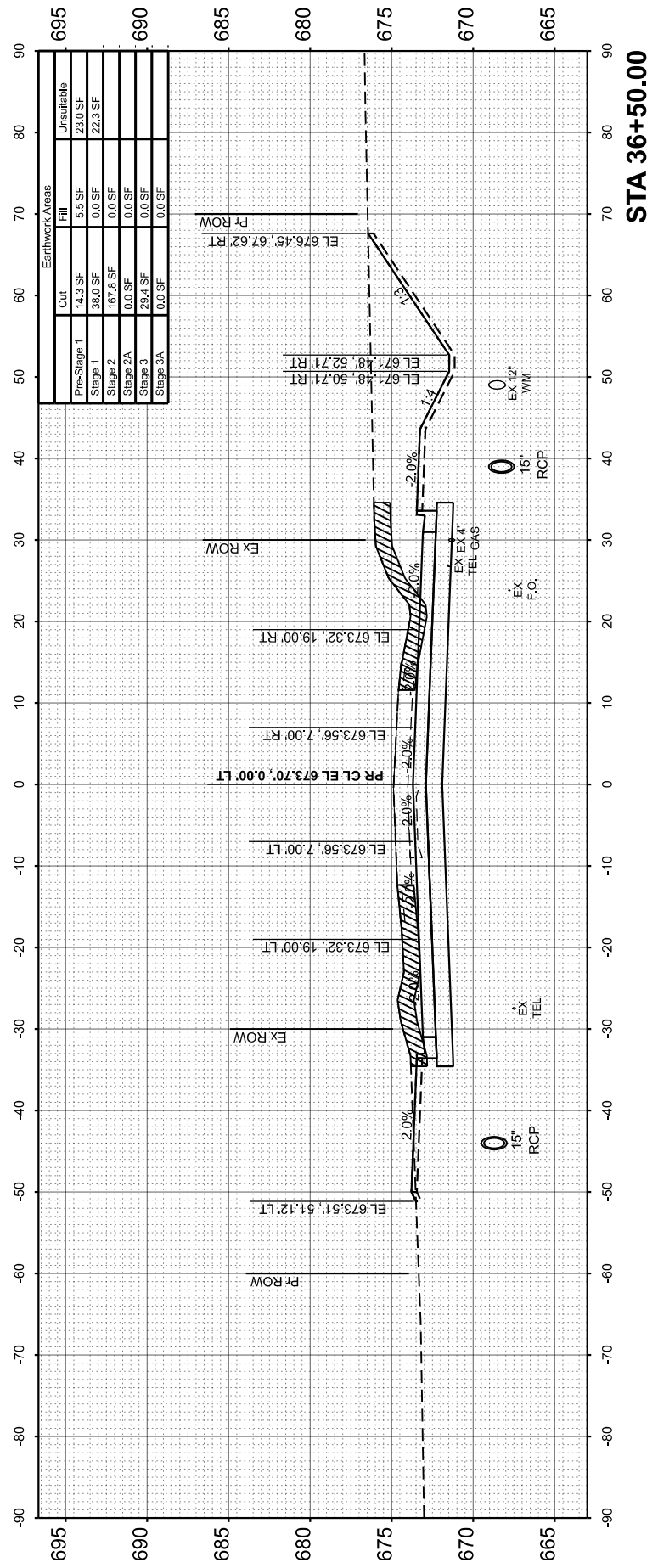
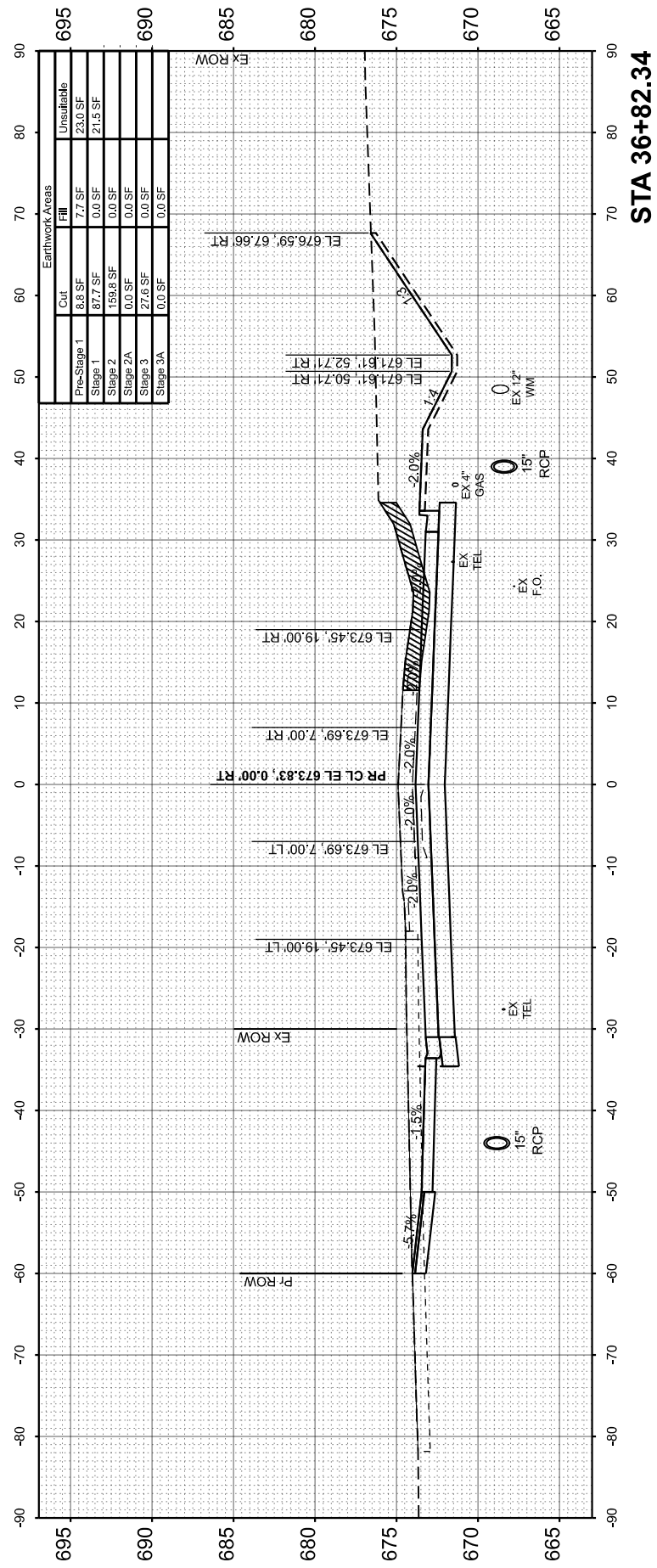
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KANKAKEE COUNTY  
HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS

SCALE: H=10 V=5 SHEET 18 OF 43 SHEETS STA. 36+00.00 TO STA. 36+82.34

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	146
				CONTRACT NO. 87805
ILLINOIS		FED. AID PROJECT		



UNSUITABLE MATERIAL

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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PLOT DATE	= 3/21/2024

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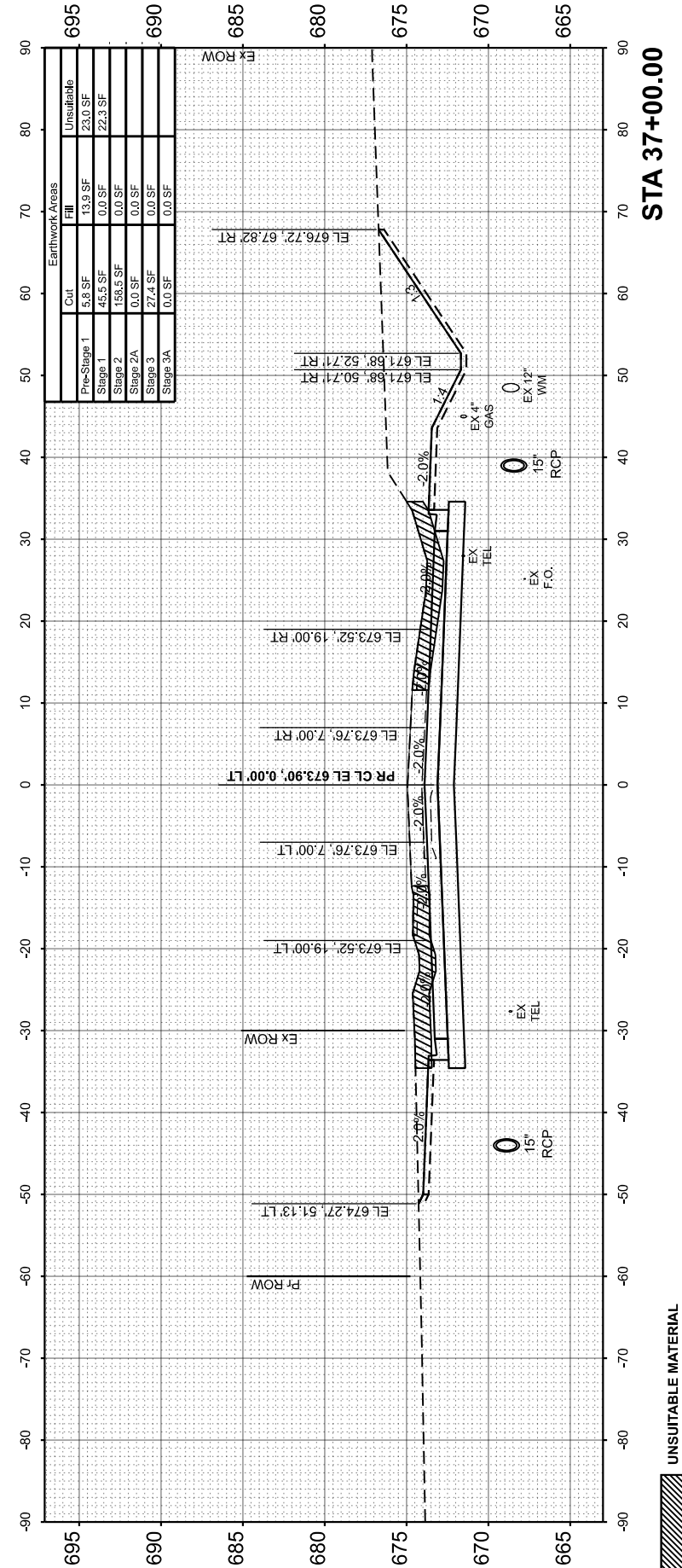
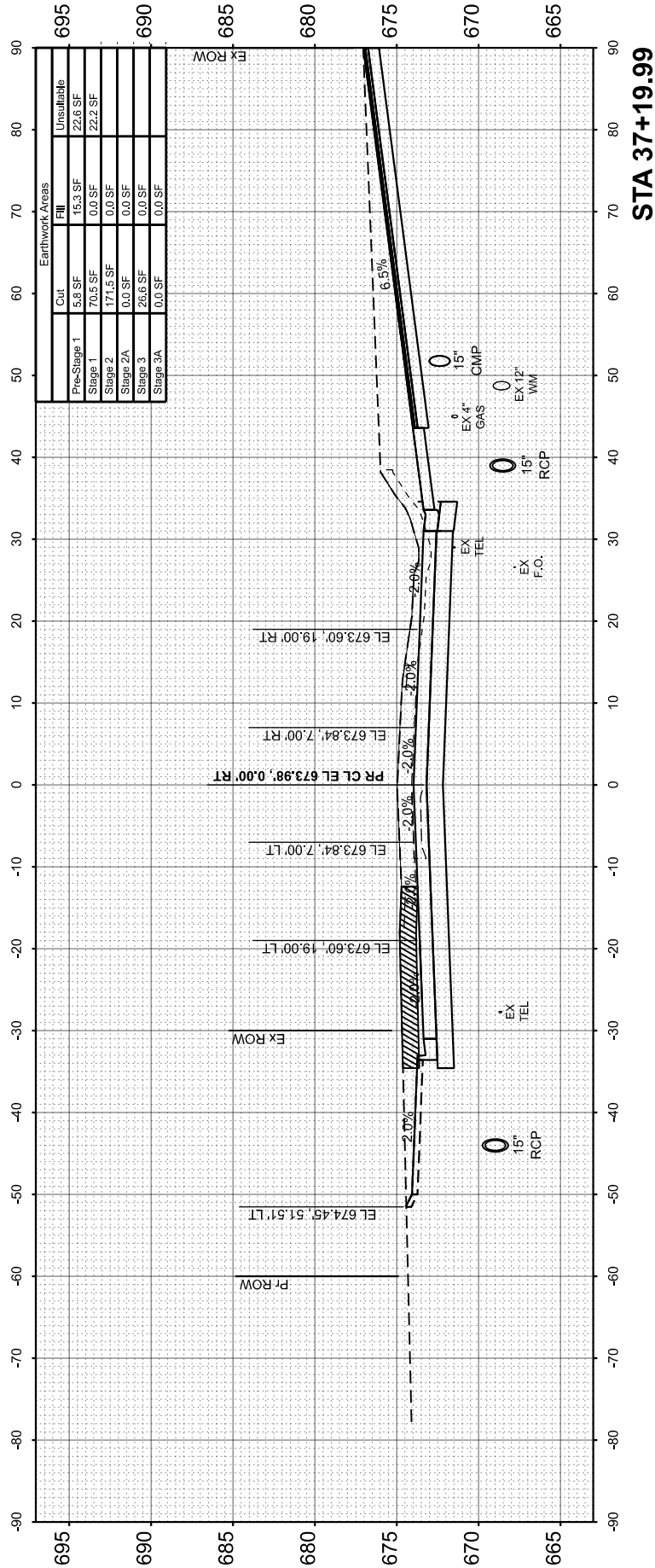
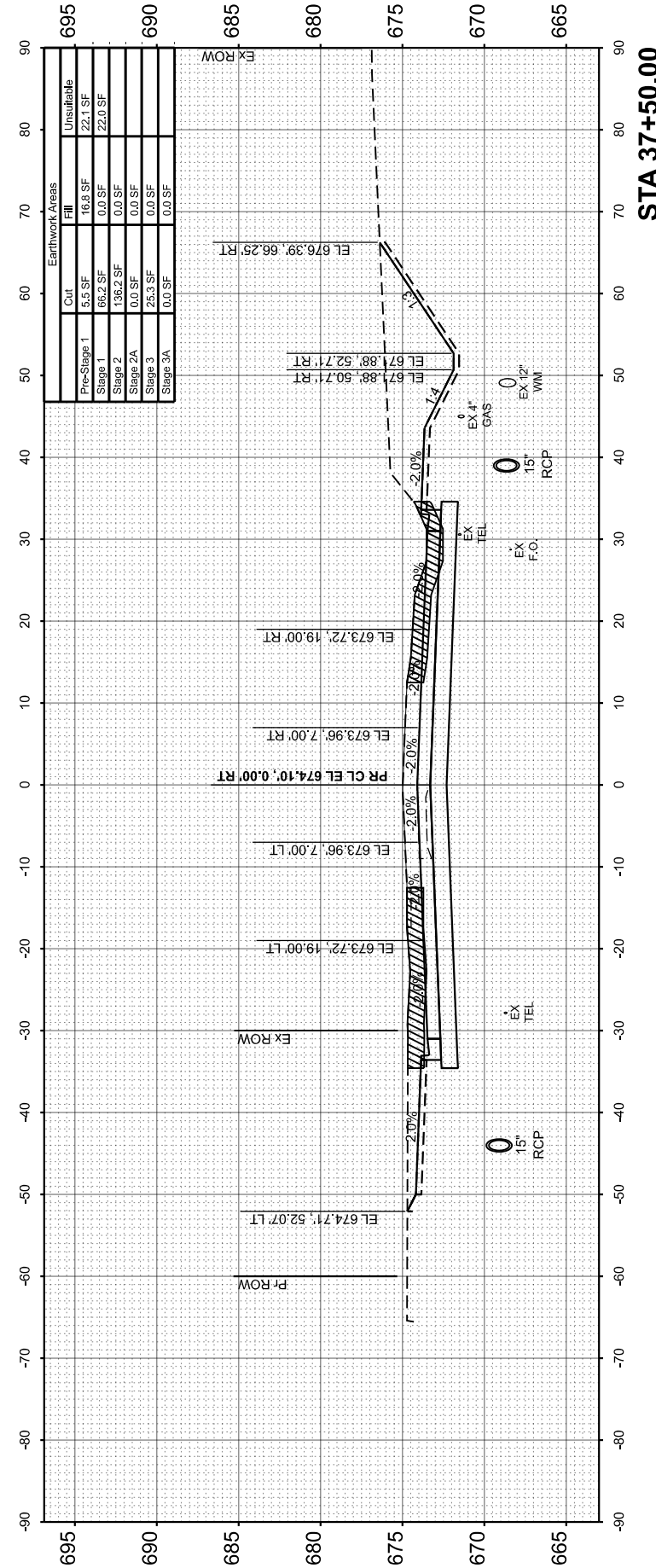
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5 SHEET 19 OF 43 SHEETS STA. 37+00.00 TO STA. 37+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	147
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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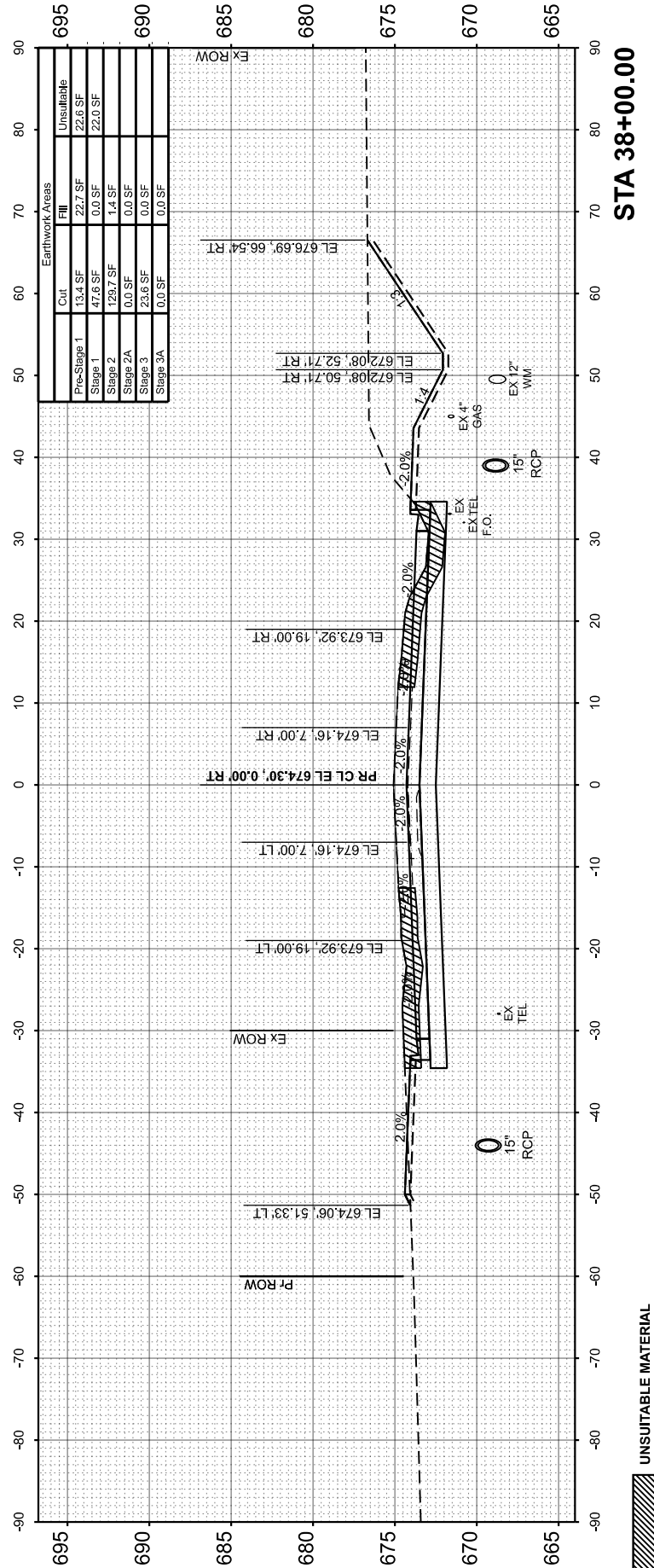
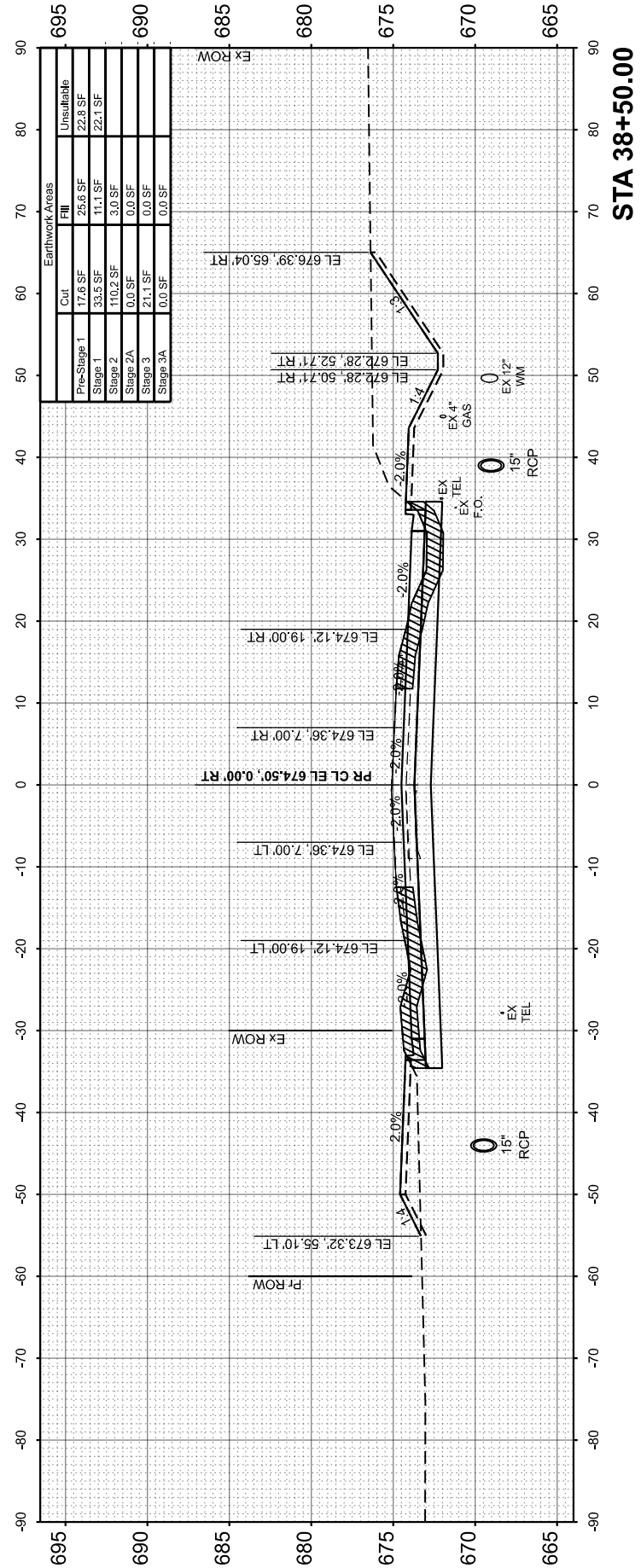
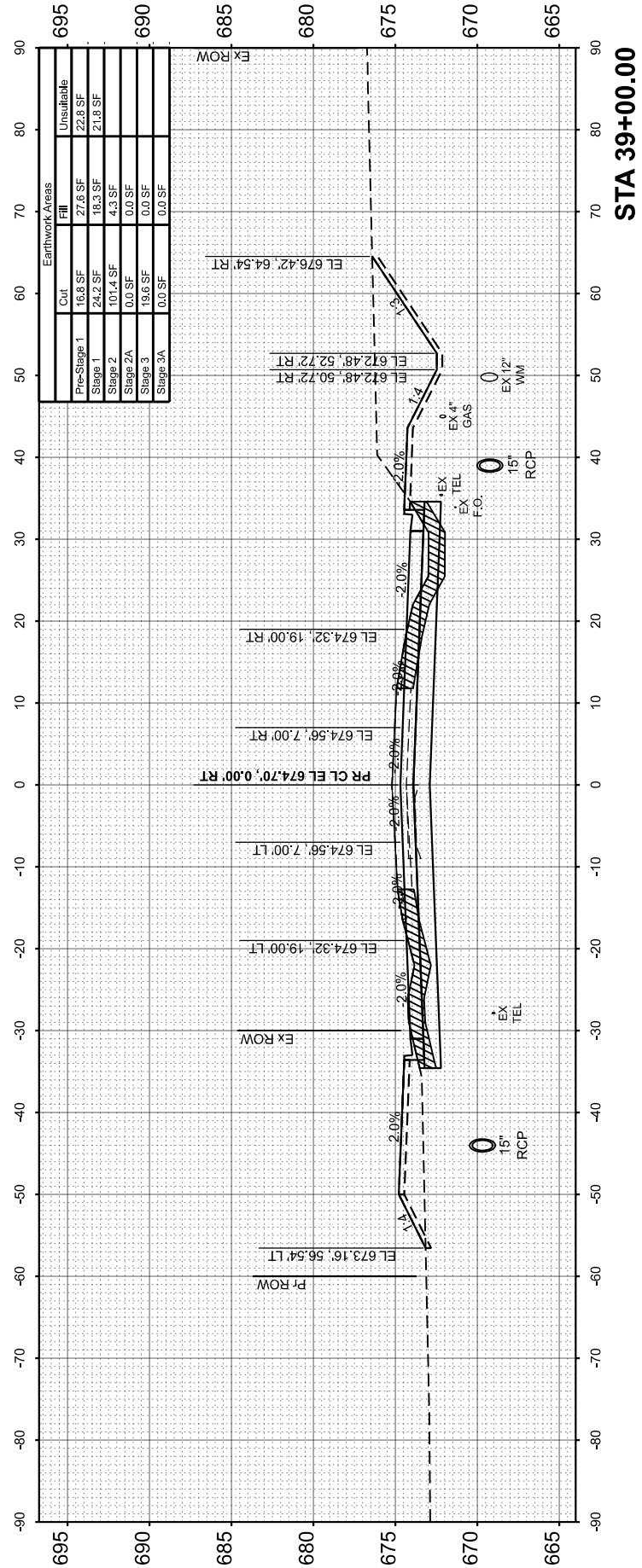
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 20 OF 43 SHEETS    STA. 38+00.00 TO STA. 39+00.00

F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	148
CONTRACT NO. 87805				
ILLINOIS / FED. AID PROJECT				



UNSUITABLE MATERIAL



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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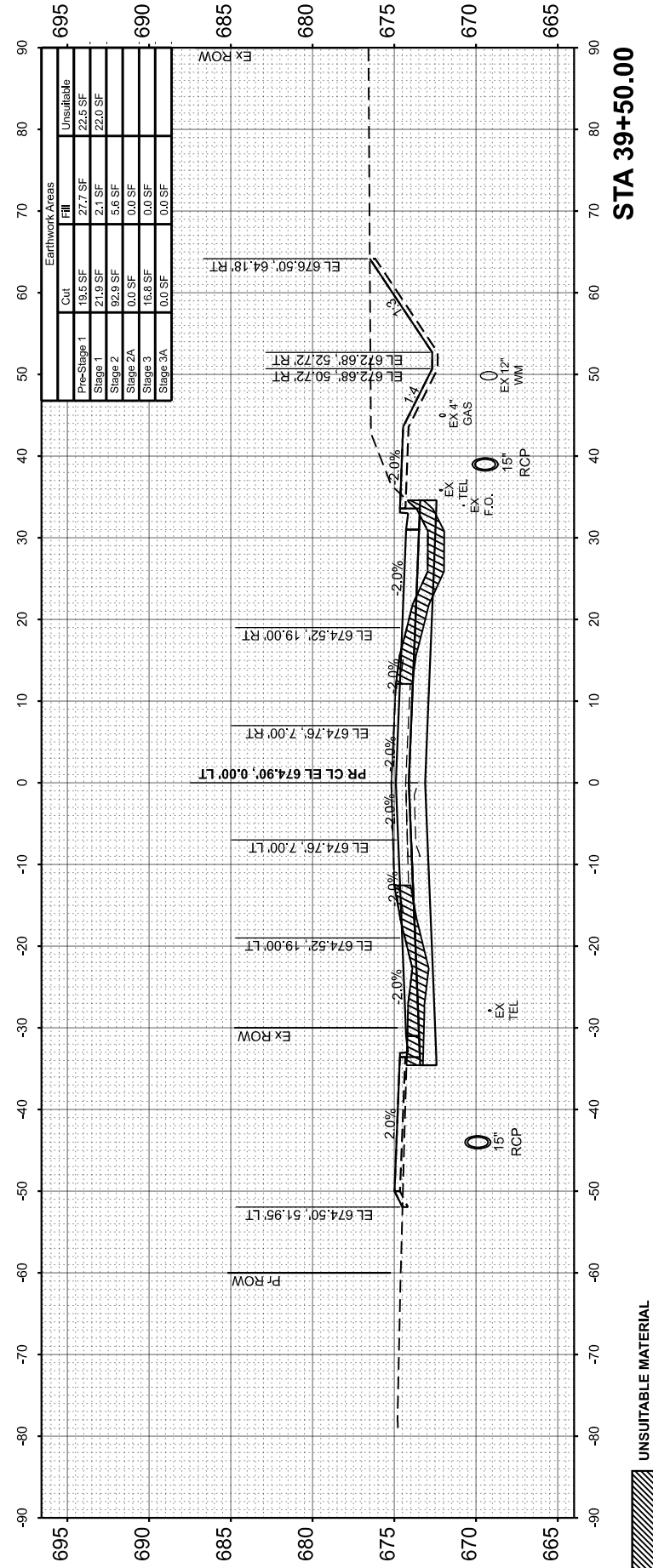
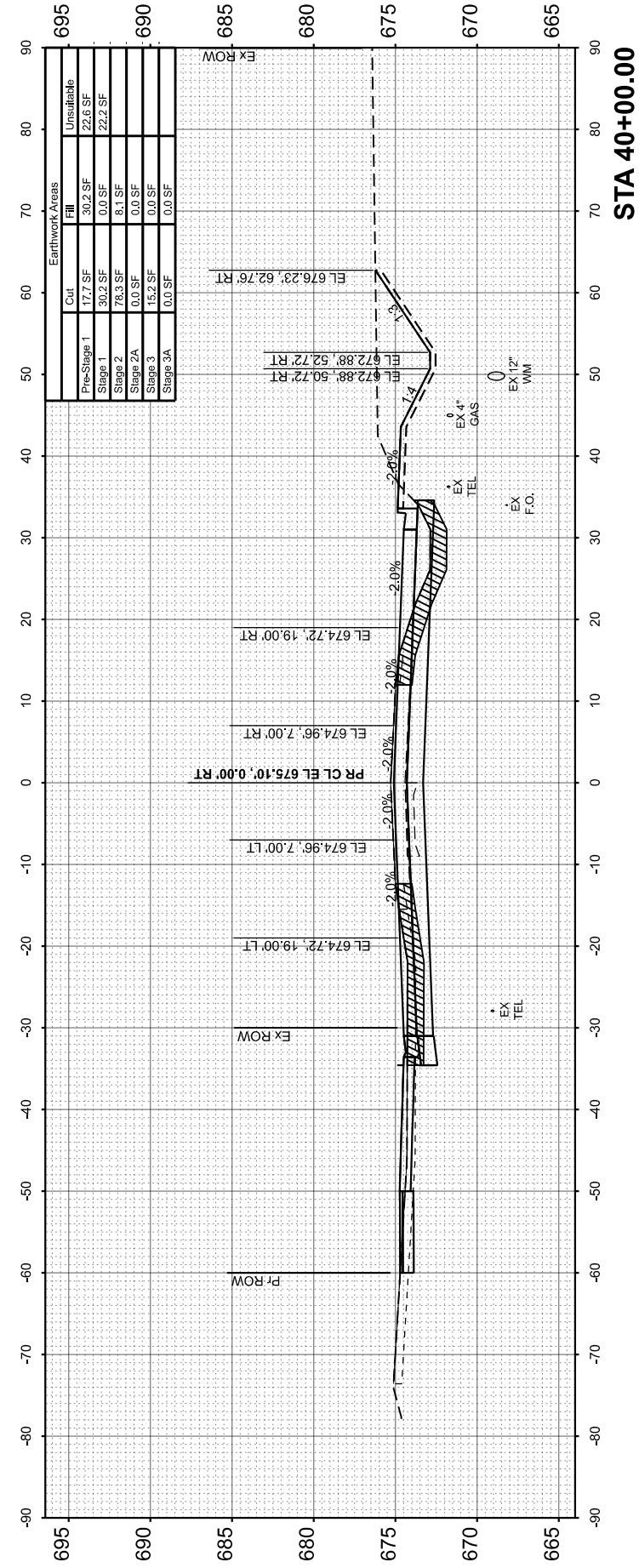
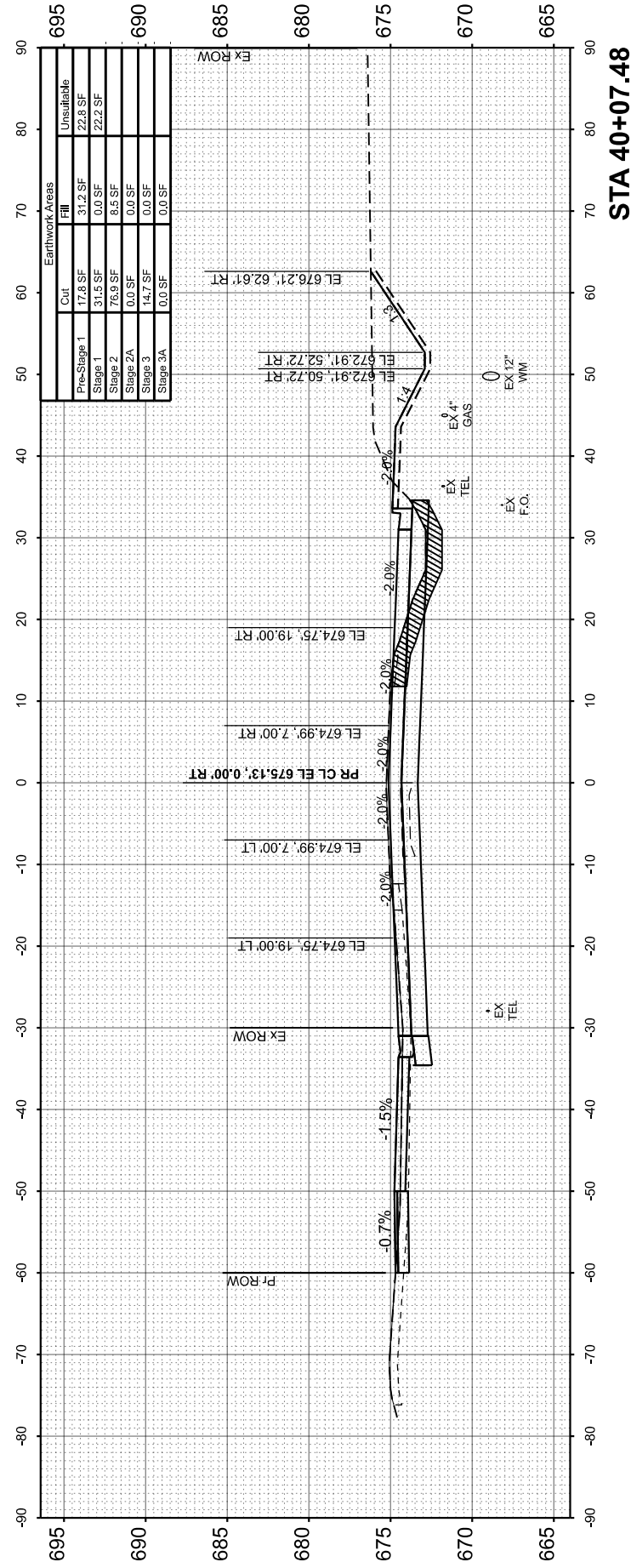
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 21    OF 43 SHEETS    STA. 39+50.00    TO STA. 40+07.48

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	149
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

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

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

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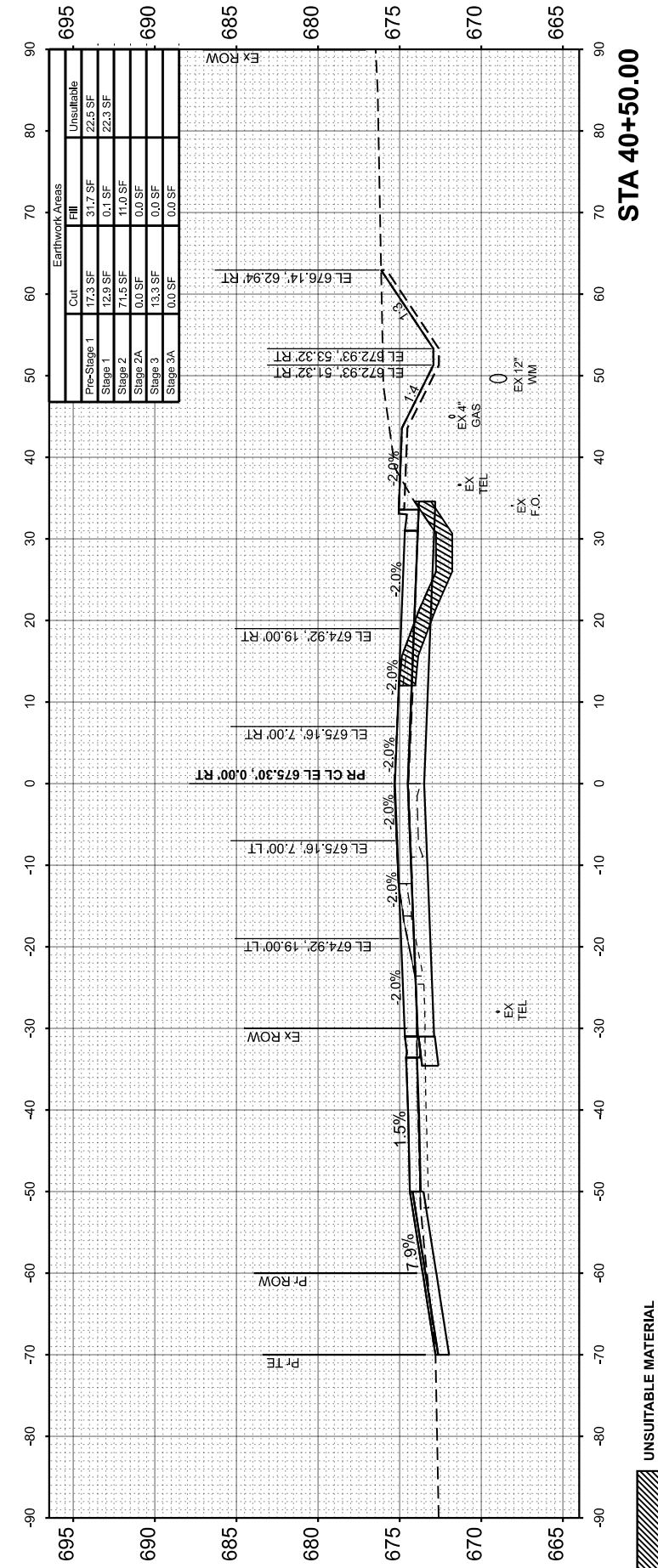
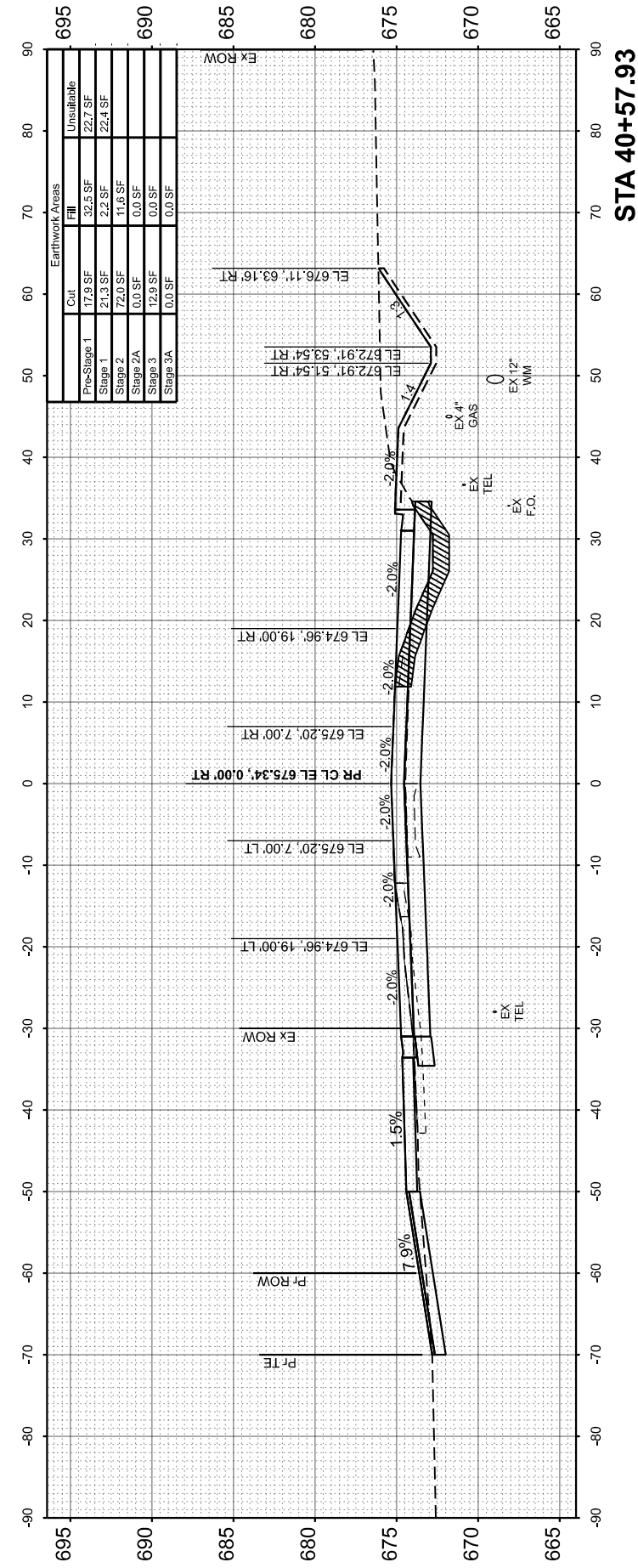
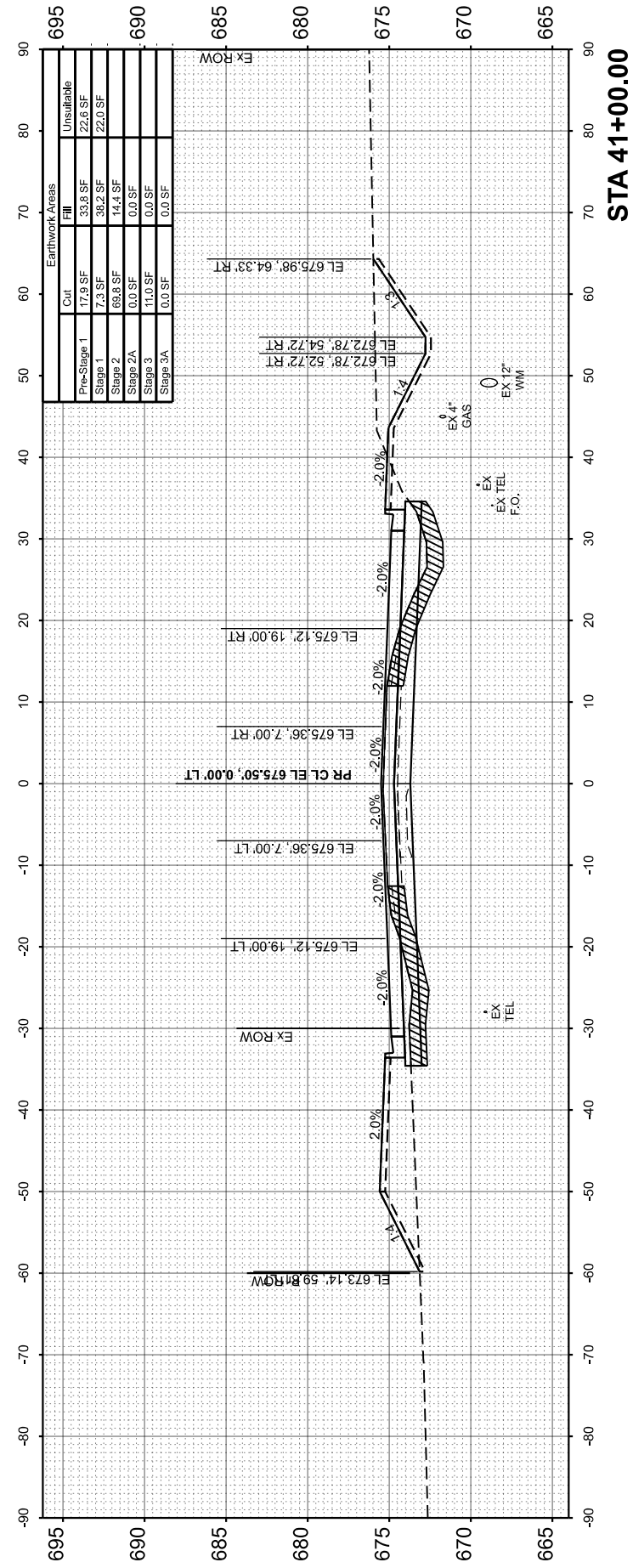
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DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5 SHEET 22 OF 43 SHEETS STA. 40+50.00 TO STA. 41+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	150
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
	CHECKED		
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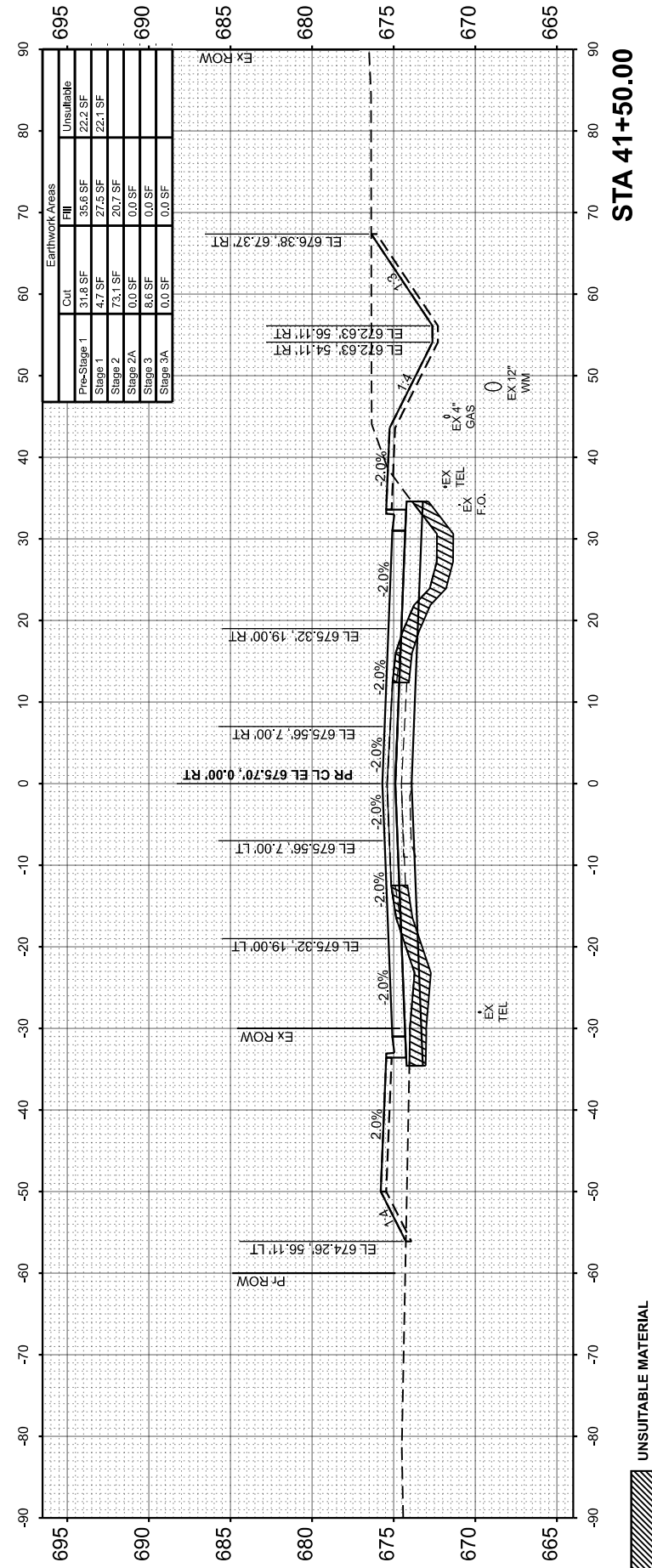
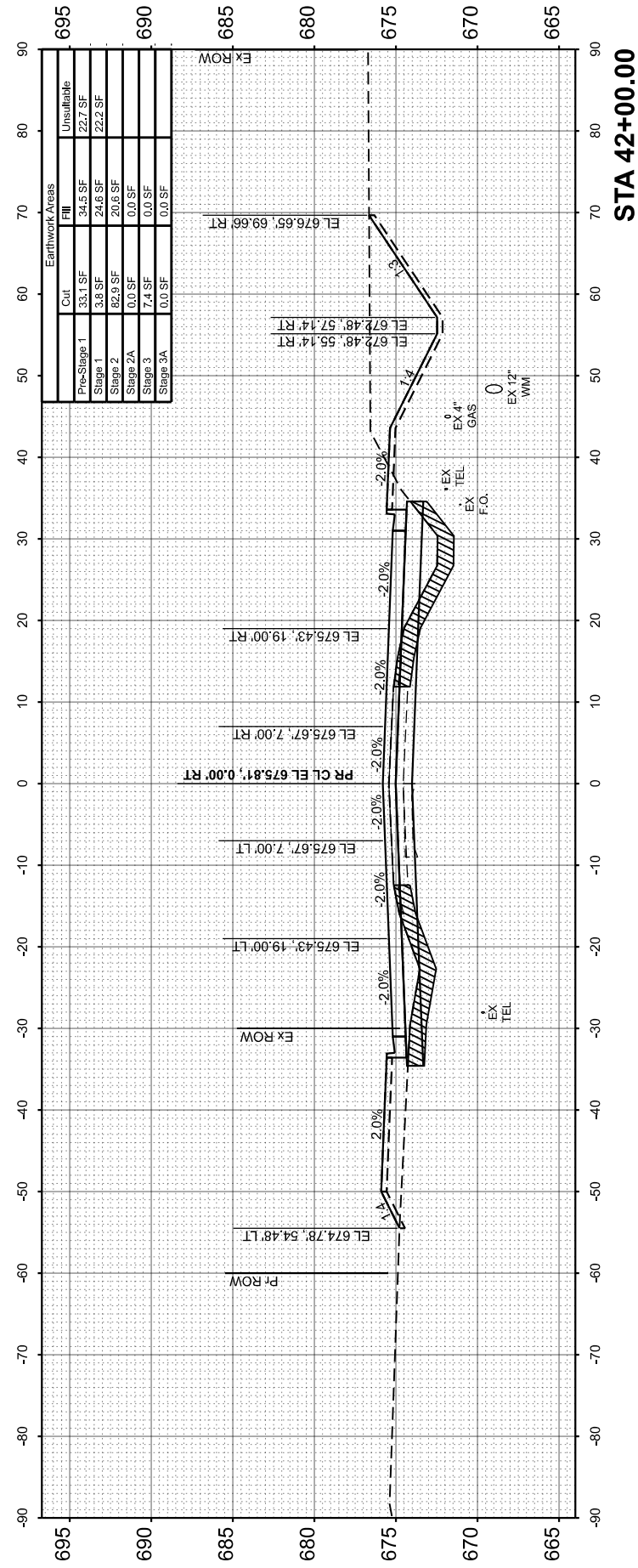
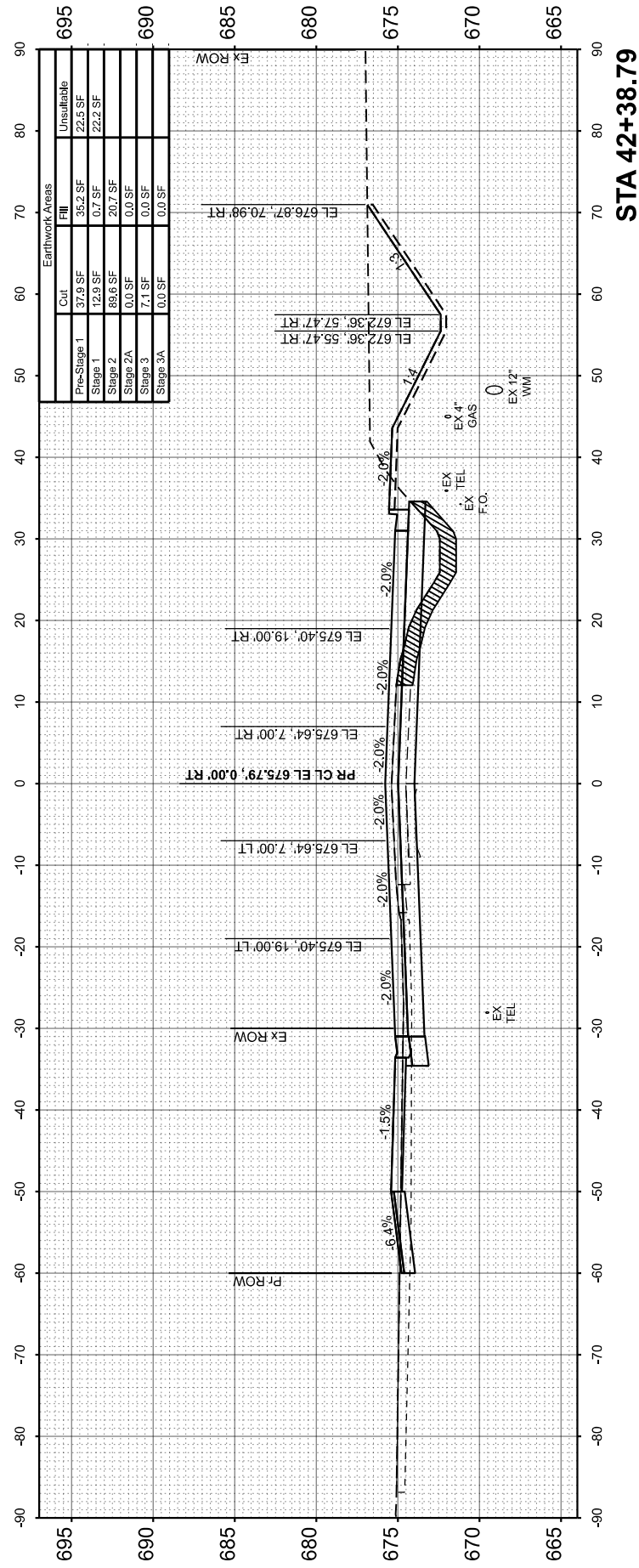
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	DATE -	REVISED -

KANKAKEE COUNTY  
HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS

SCALE: H=10 V=5 SHEET 23 OF 43 SHEETS STA. 41+50.00 TO STA. 42+38.79

F.A.S. RTE. 311	SECTION 08-00286-00-FP	COUNTY KANKAKEE	TOTAL SHEETS 173	SHEET NO. 151
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

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

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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		
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DATE	-

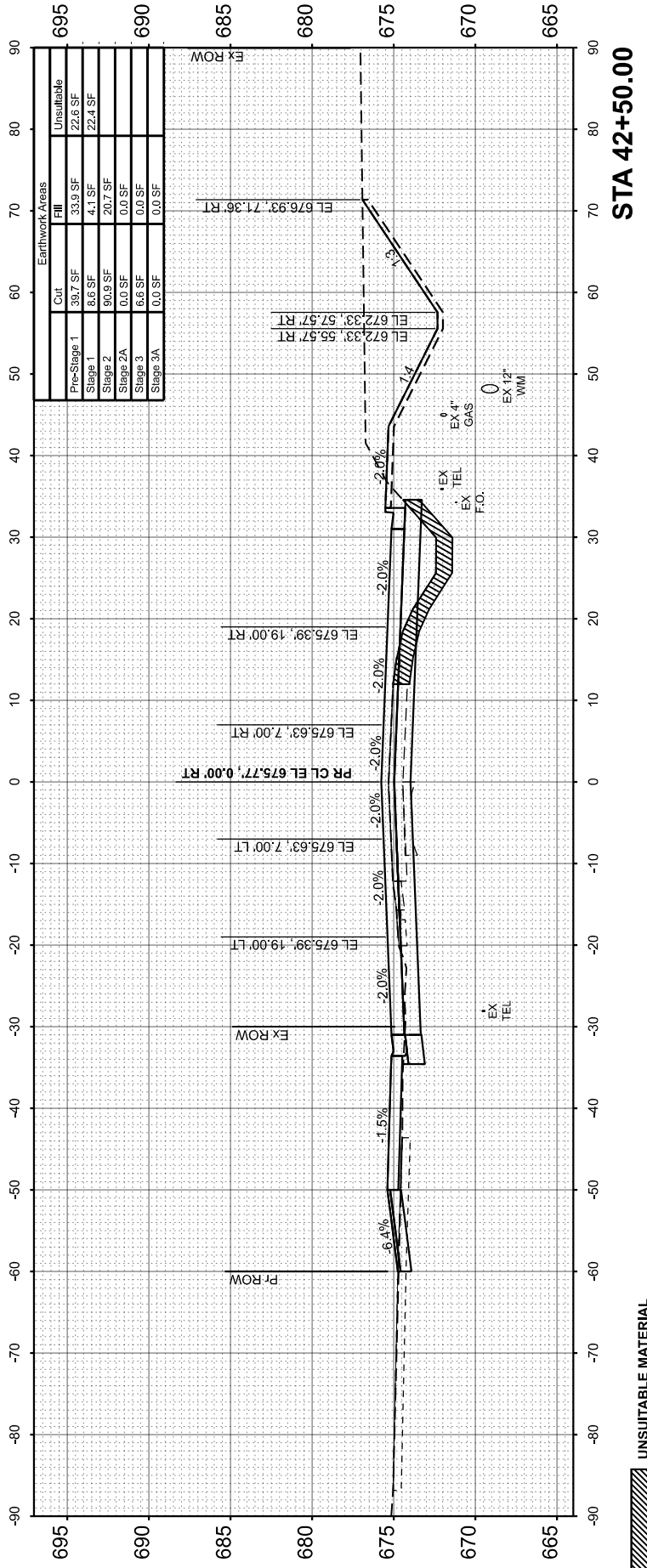
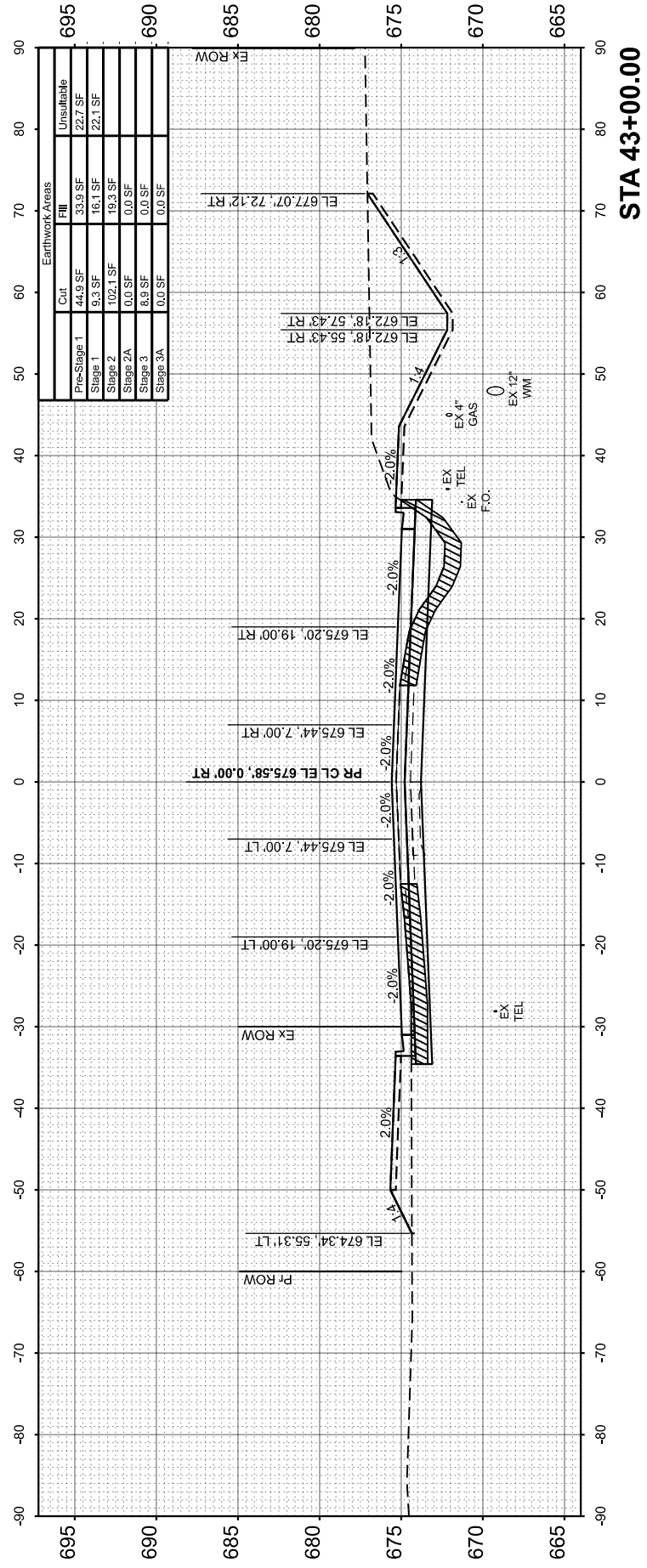
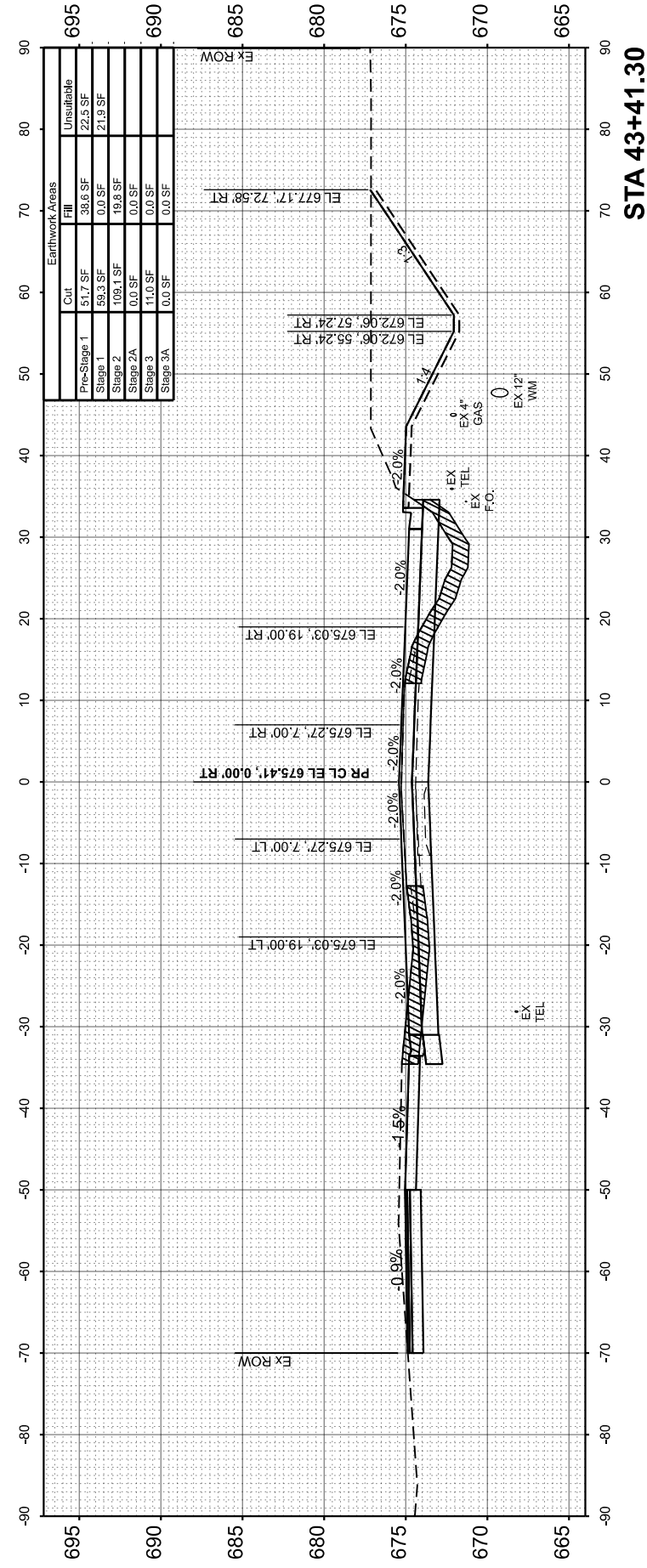
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 24    OF 43 SHEETS    STA. 42+50.00    TO STA. 43+41.30

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	152
CONTRACT NO. 87805				
ILLINOIS    FED. AID PROJECT				



UNSUITABLE MATERIAL

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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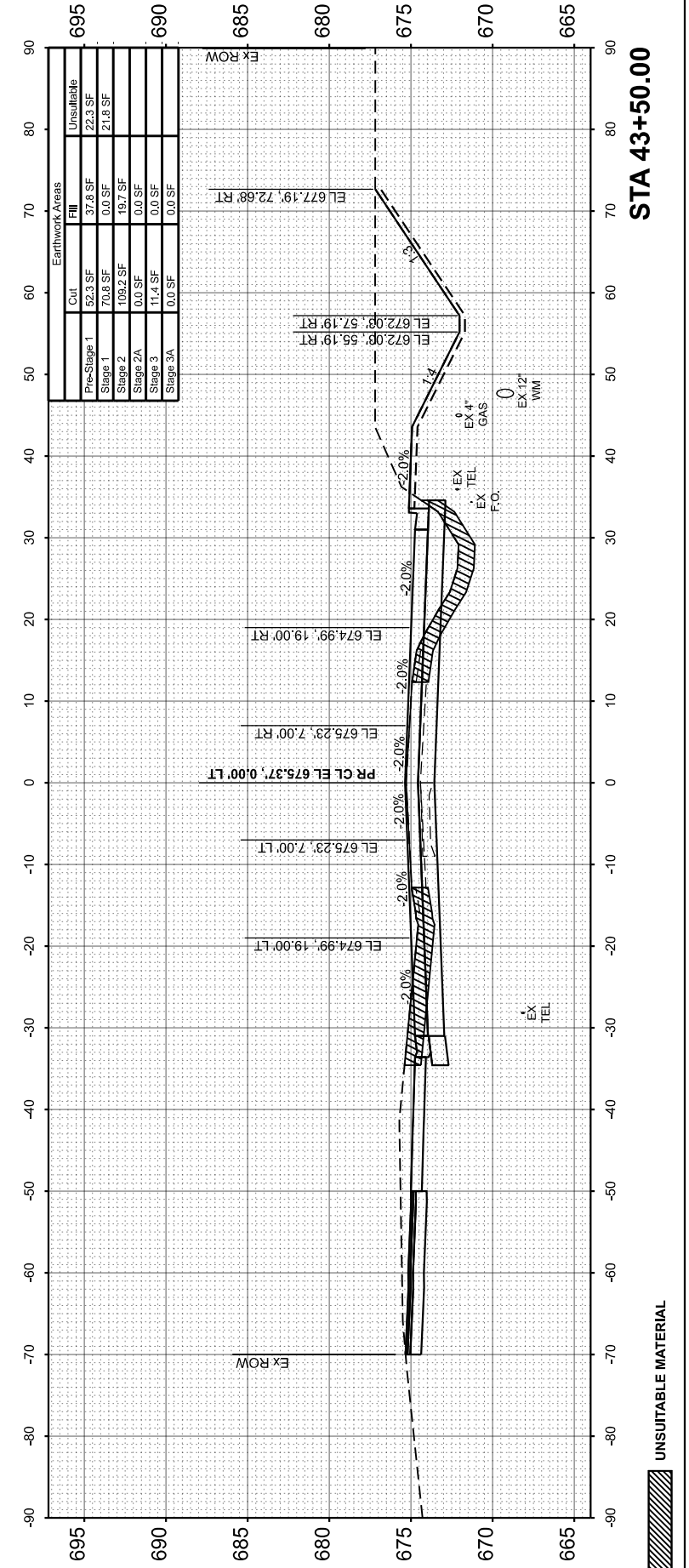
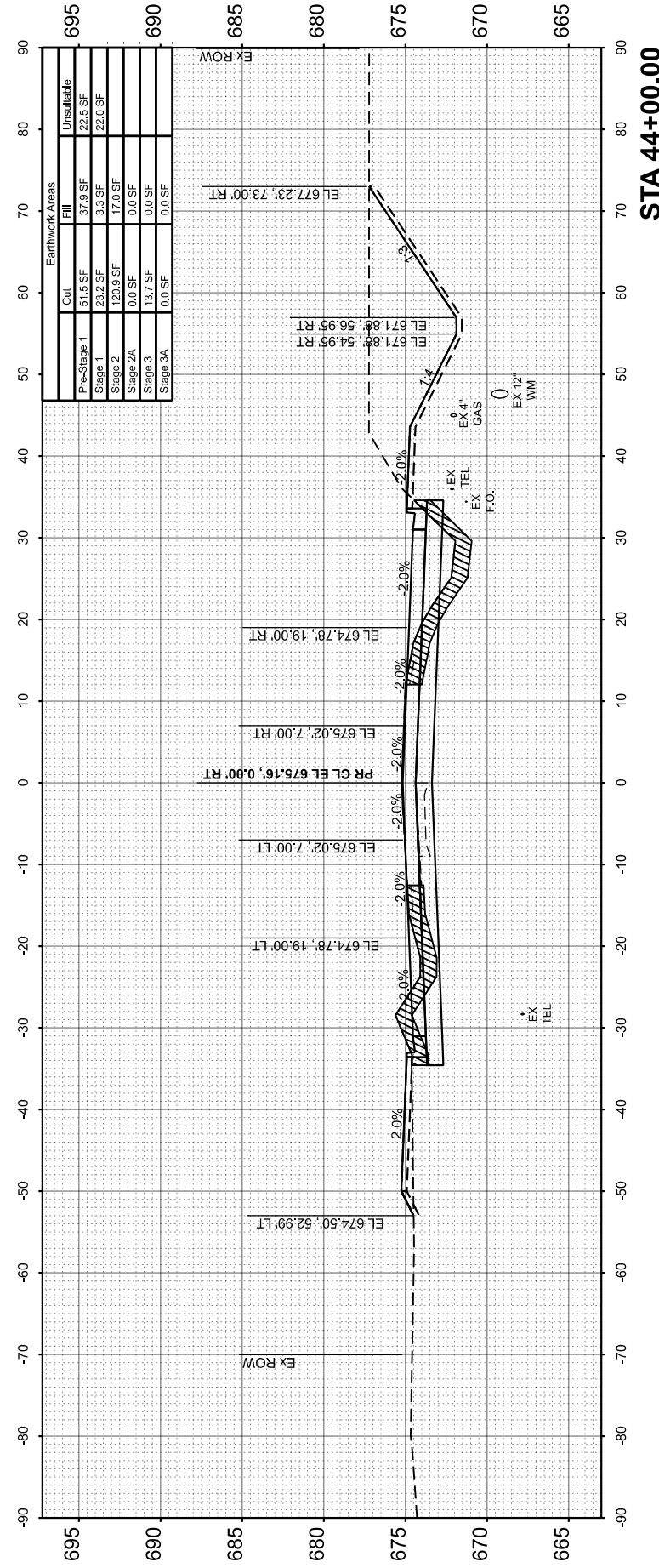
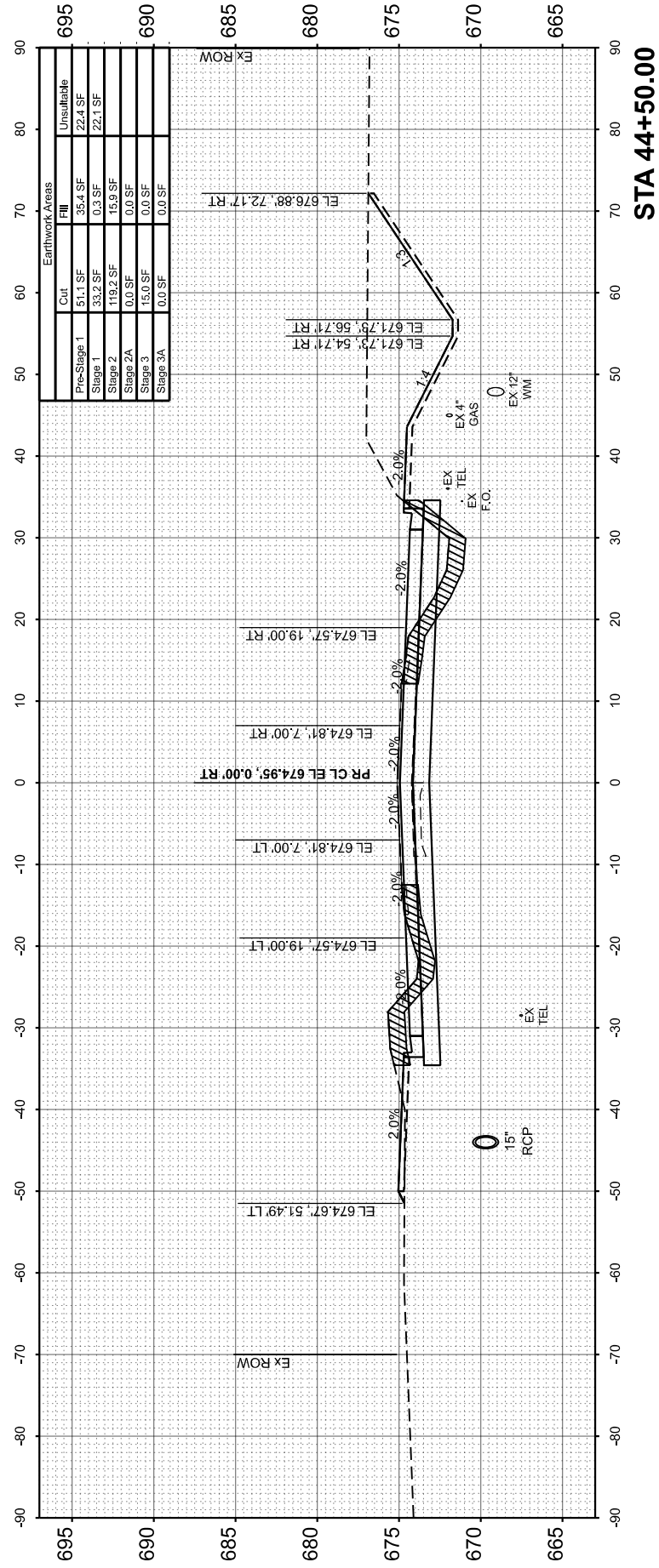
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KANKAKEE COUNTY  
HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS

SCALE: H=10 V=5 SHEET 25 OF 43 SHEETS STA. 43+50.00 TO STA. 44+50.00

F.A.S. RTE. 311	SECTION 08-00286-00-FP	COUNTY KANKAKEE	TOTAL SHEETS 173	SHEET NO. 153
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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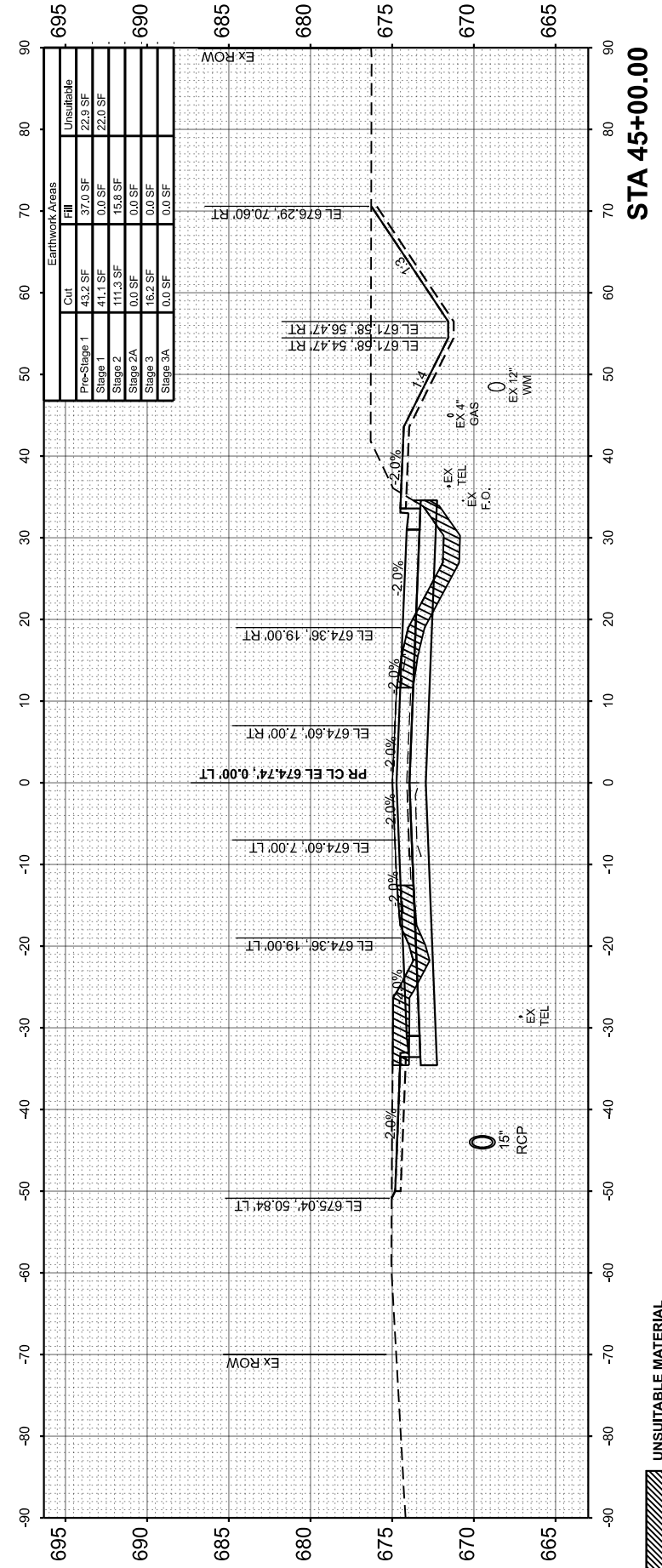
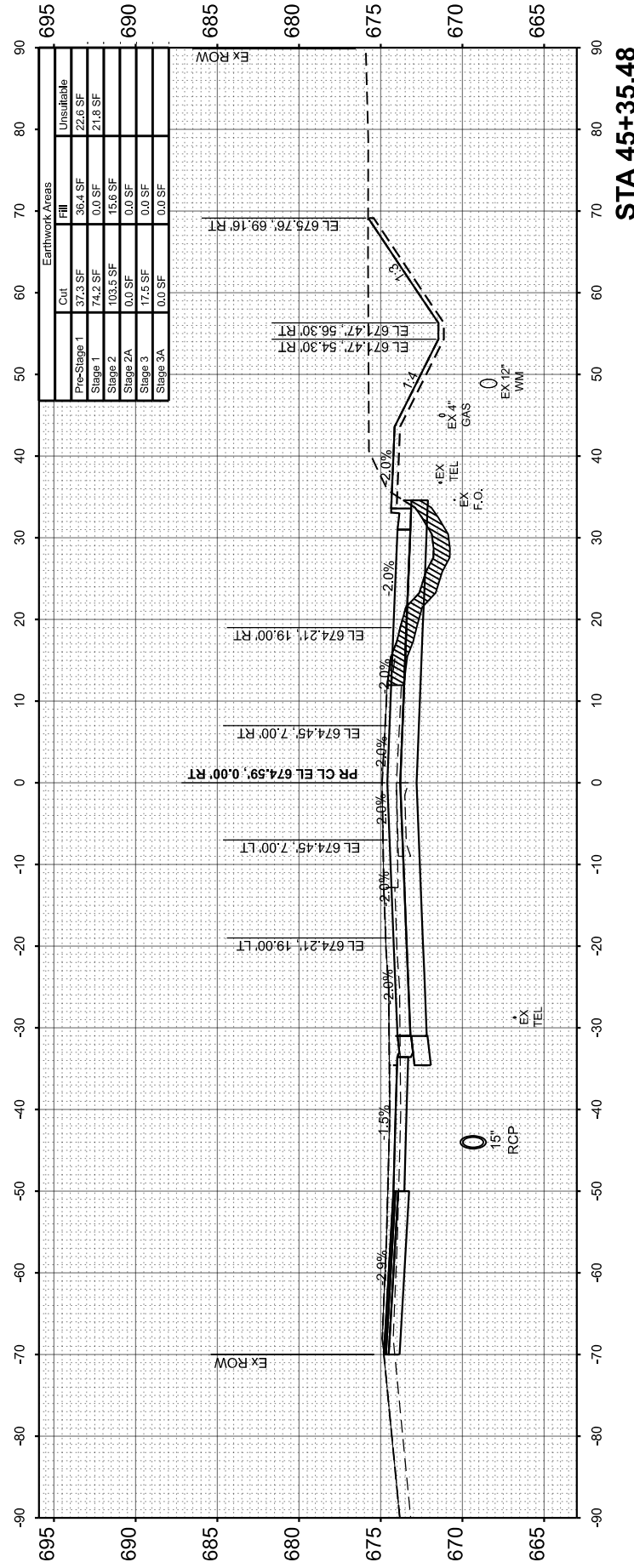
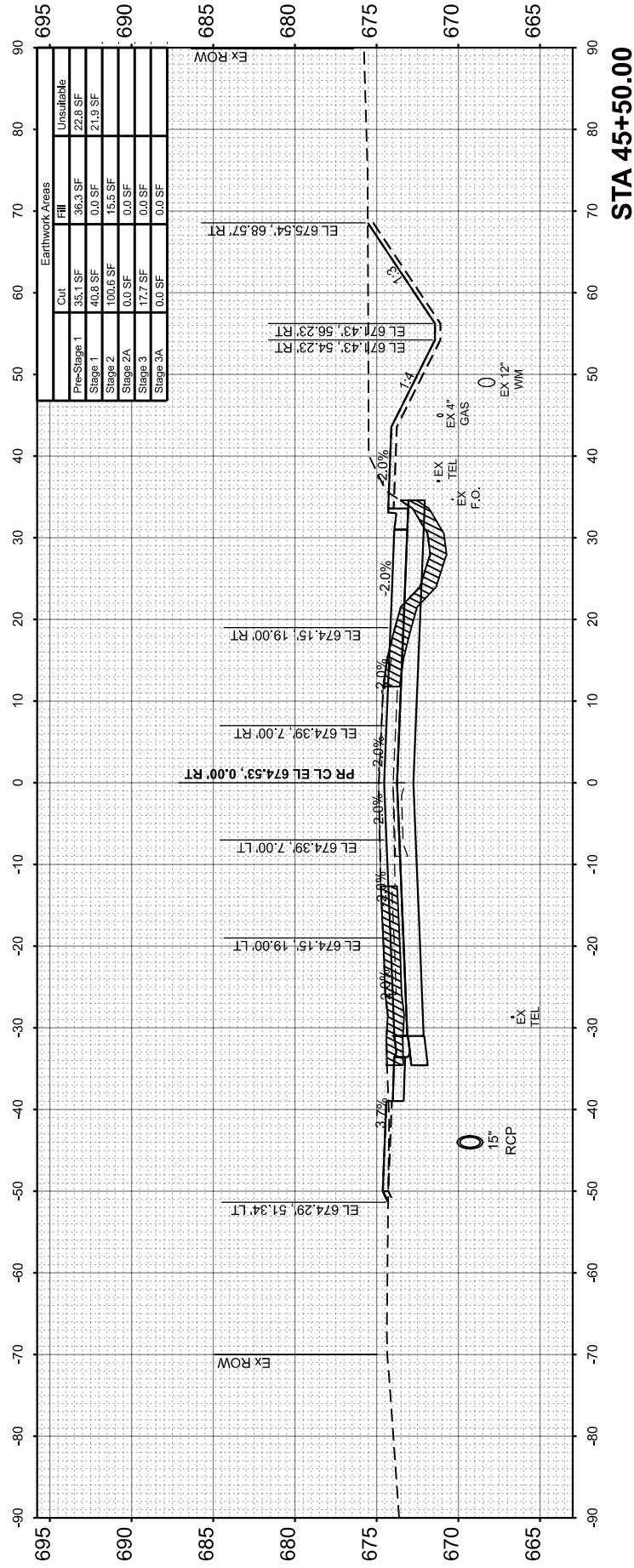
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 26 OF 43 SHEETS    STA. 45+00.00 TO STA. 45+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	154
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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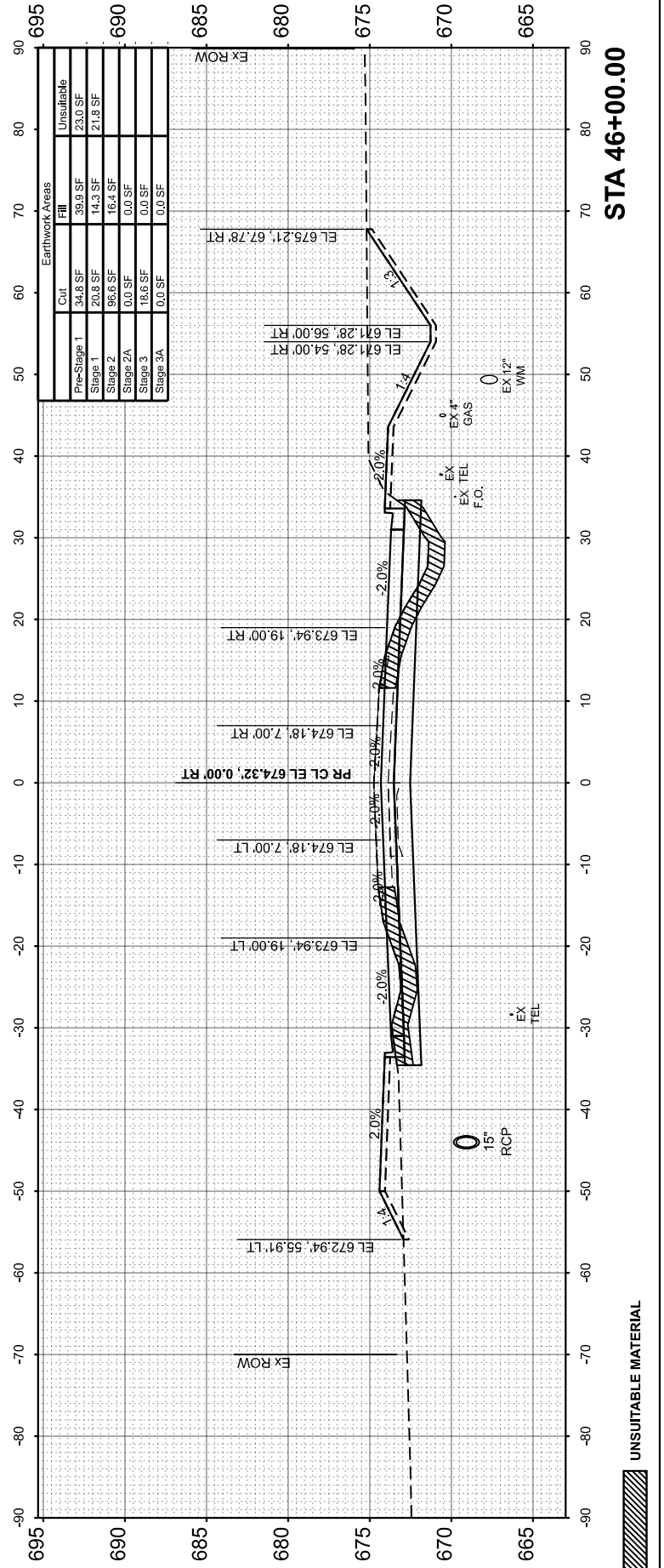
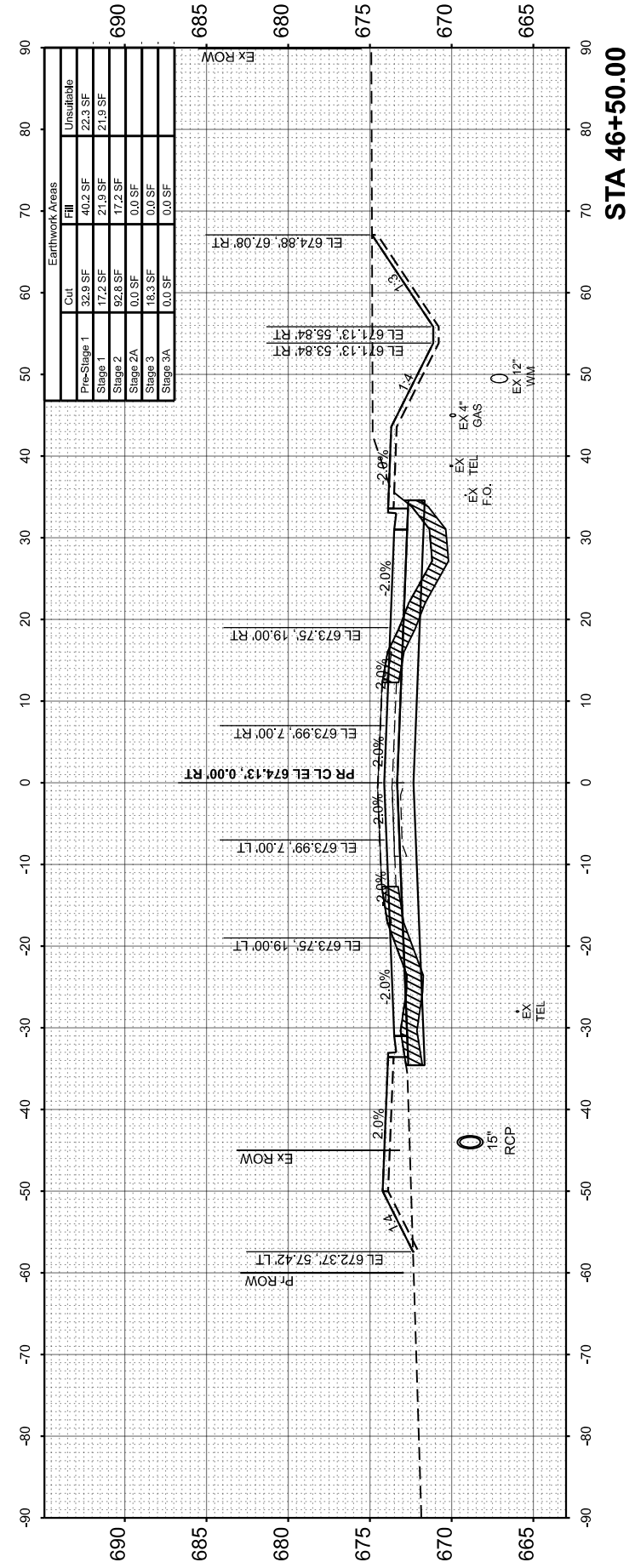
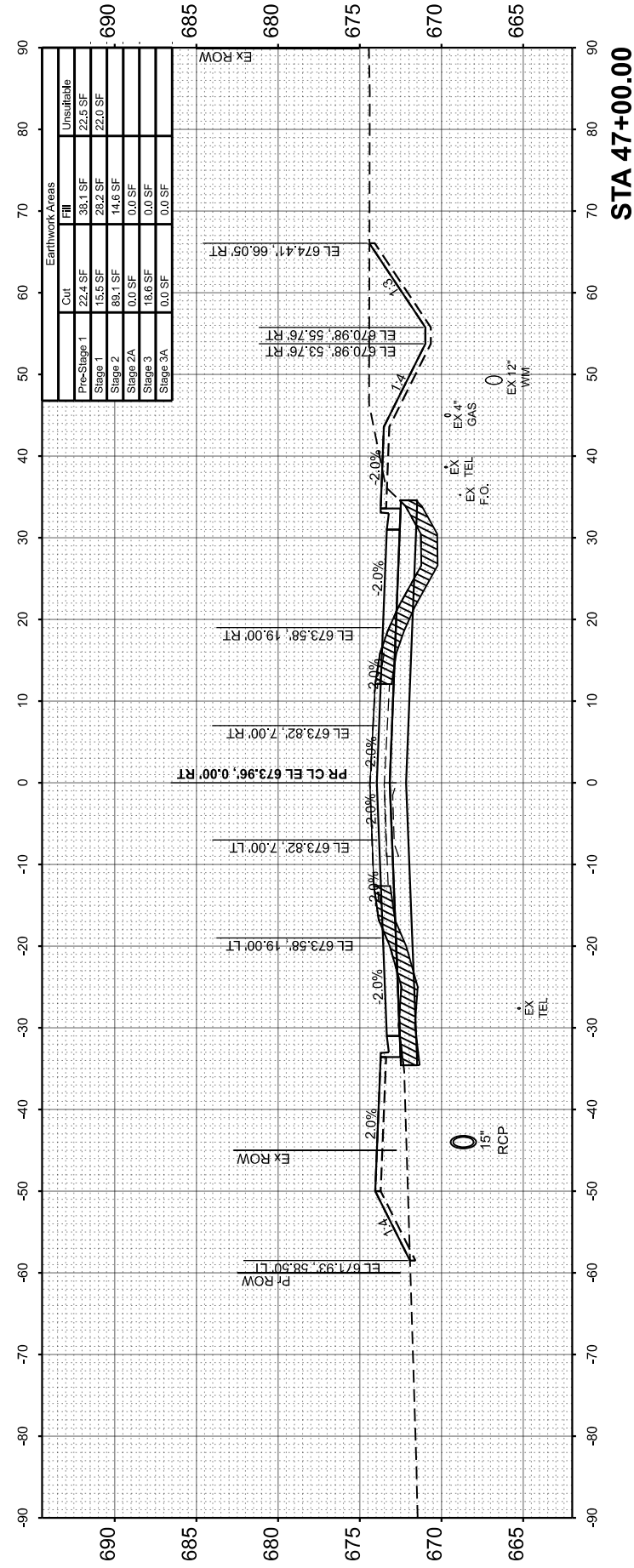
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 27    OF 43 SHEETS    STA. 46+00.00    TO STA. 47+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	155
				CONTRACT NO. 87805
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

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

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CHECKED -	
DATE -	3/21/2024

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DATE -	

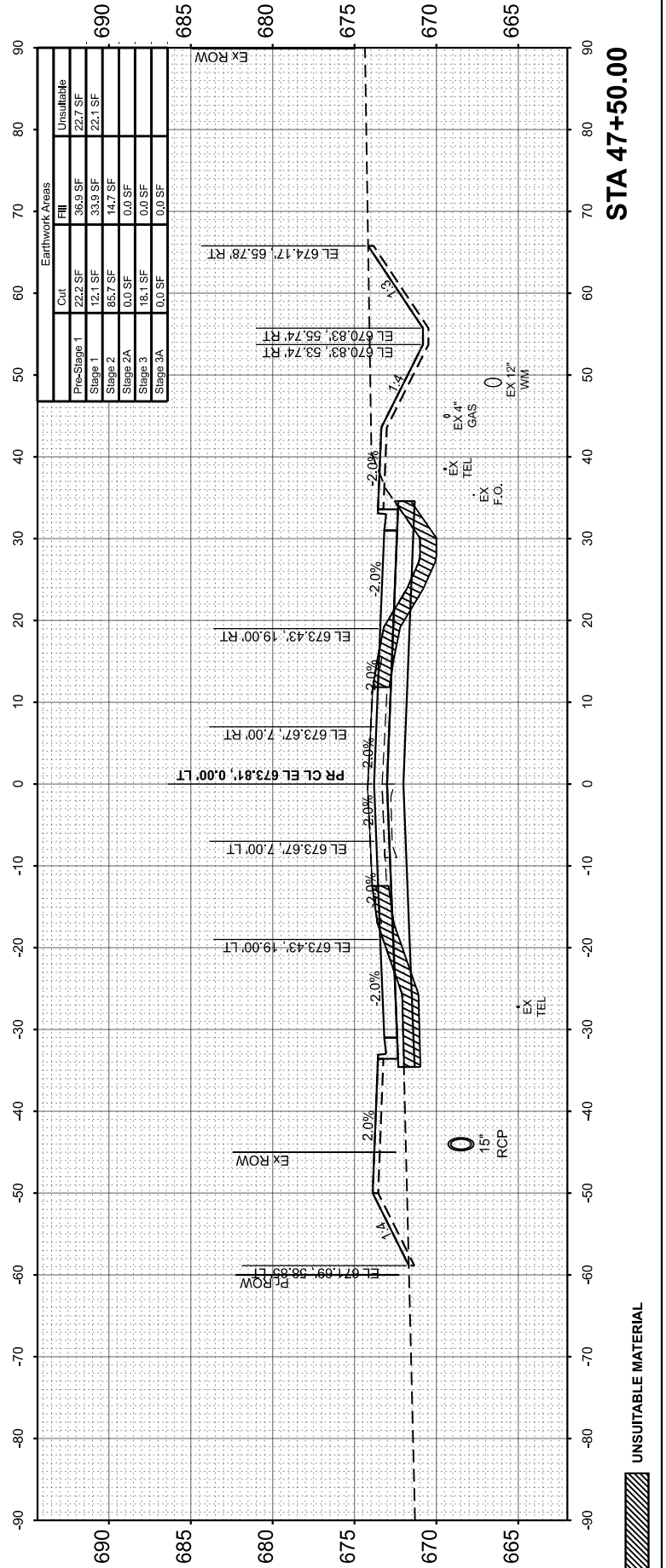
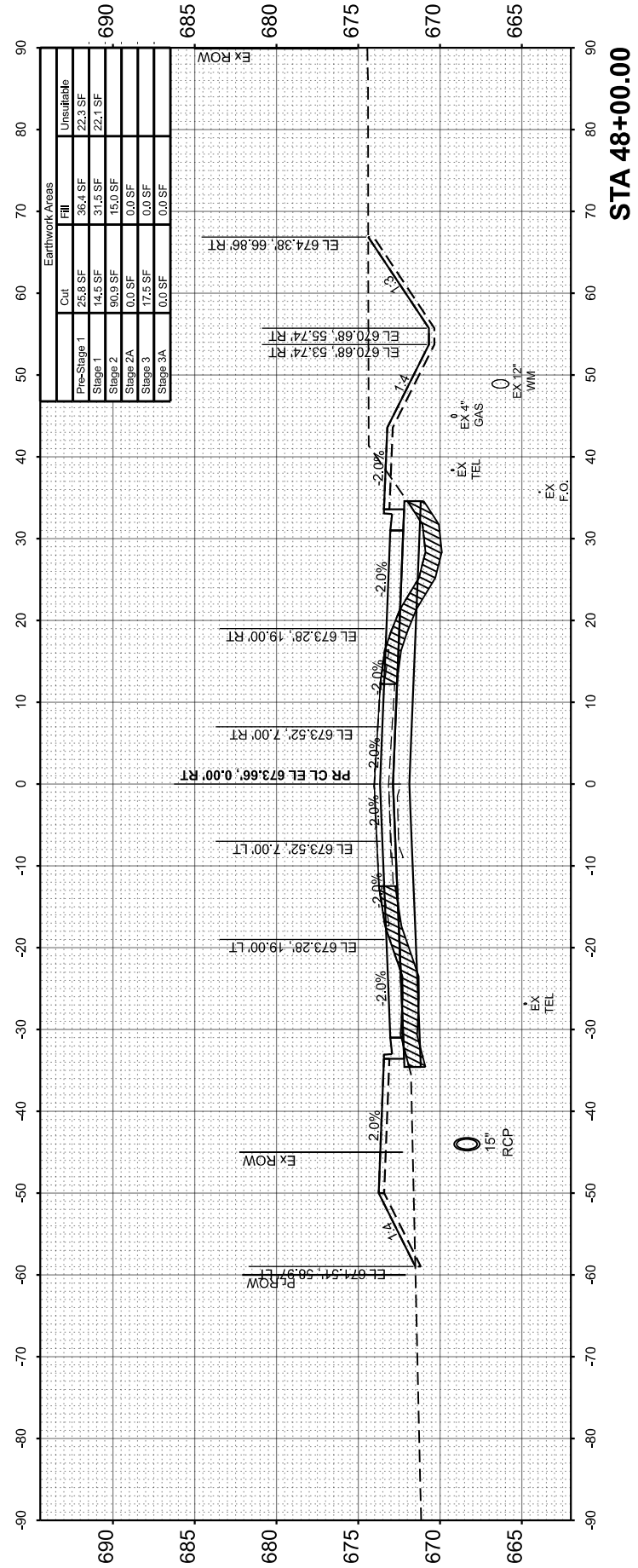
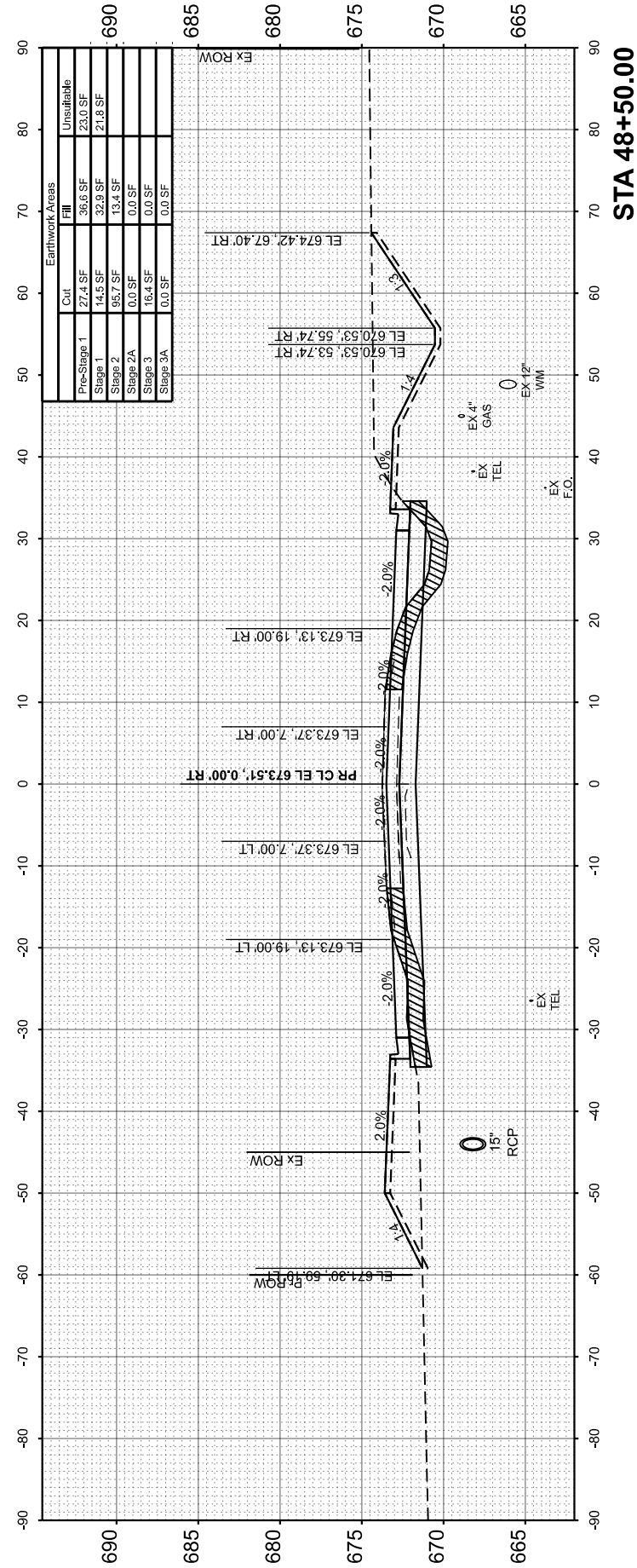
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 28    OF 43    SHEETS    STA. 47+50.00    TO STA. 48+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	156
				CONTRACT NO. 87805
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

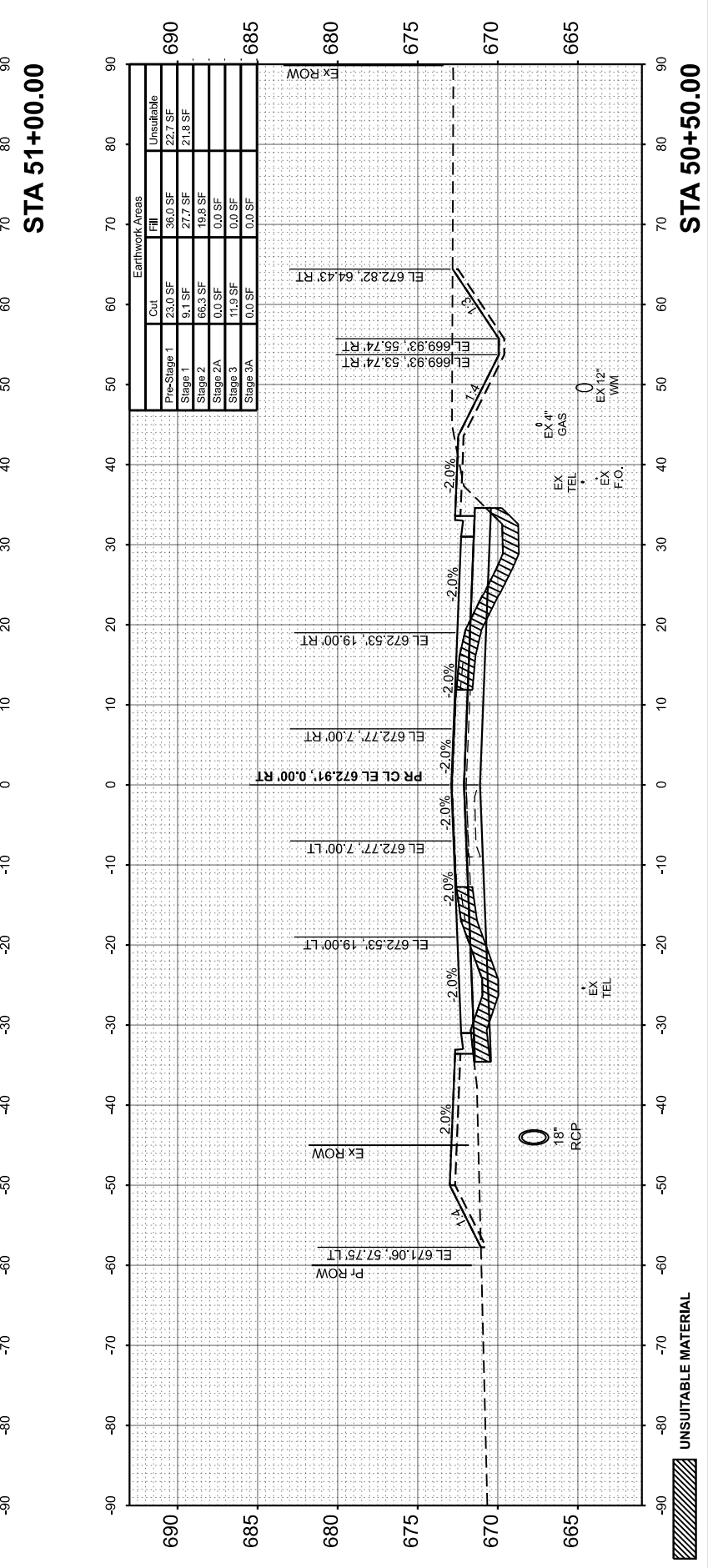
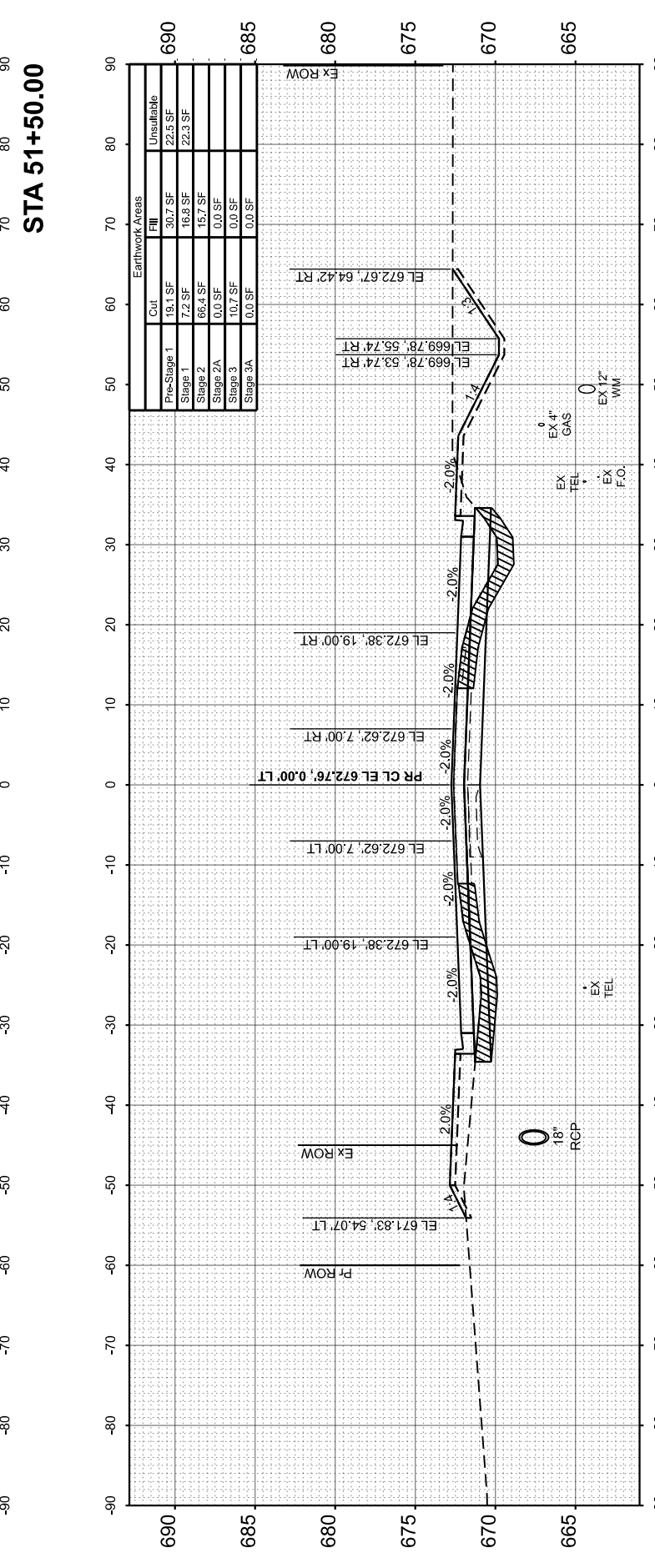
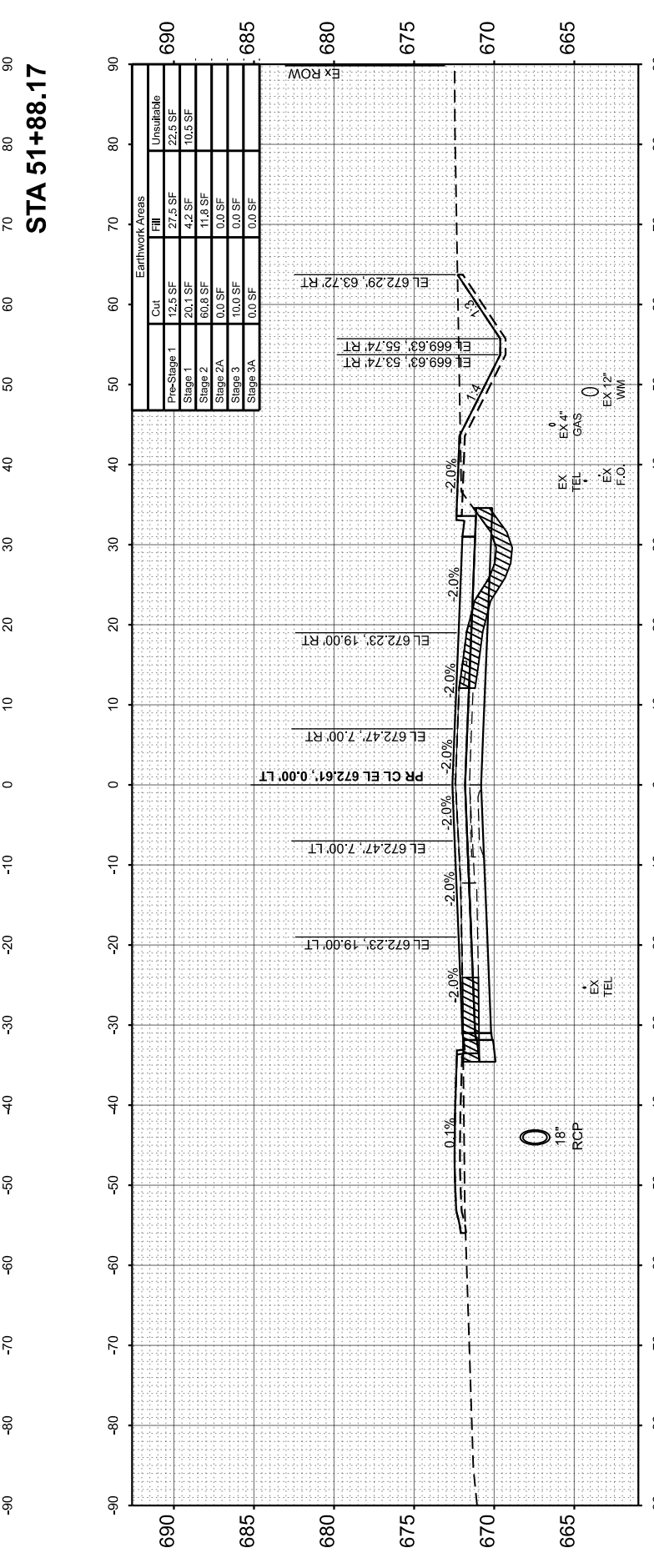
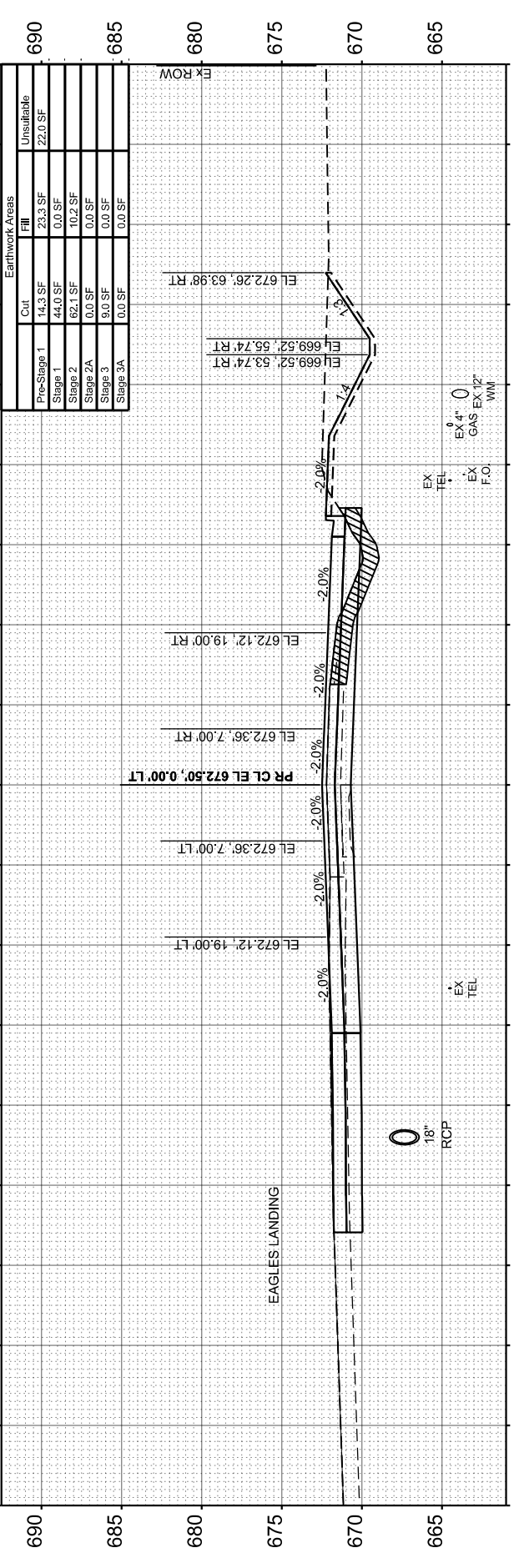




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NOTE BOOK	NOTE BOOK		
AREAS CHECKED	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
PLOTTED	PLOTTED		
NOTE BOOK	NOTE BOOK		
AREAS CHECKED	AREAS CHECKED		

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PLOT DATE	= 3/21/2024

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CHECKED	-
DATE	-
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

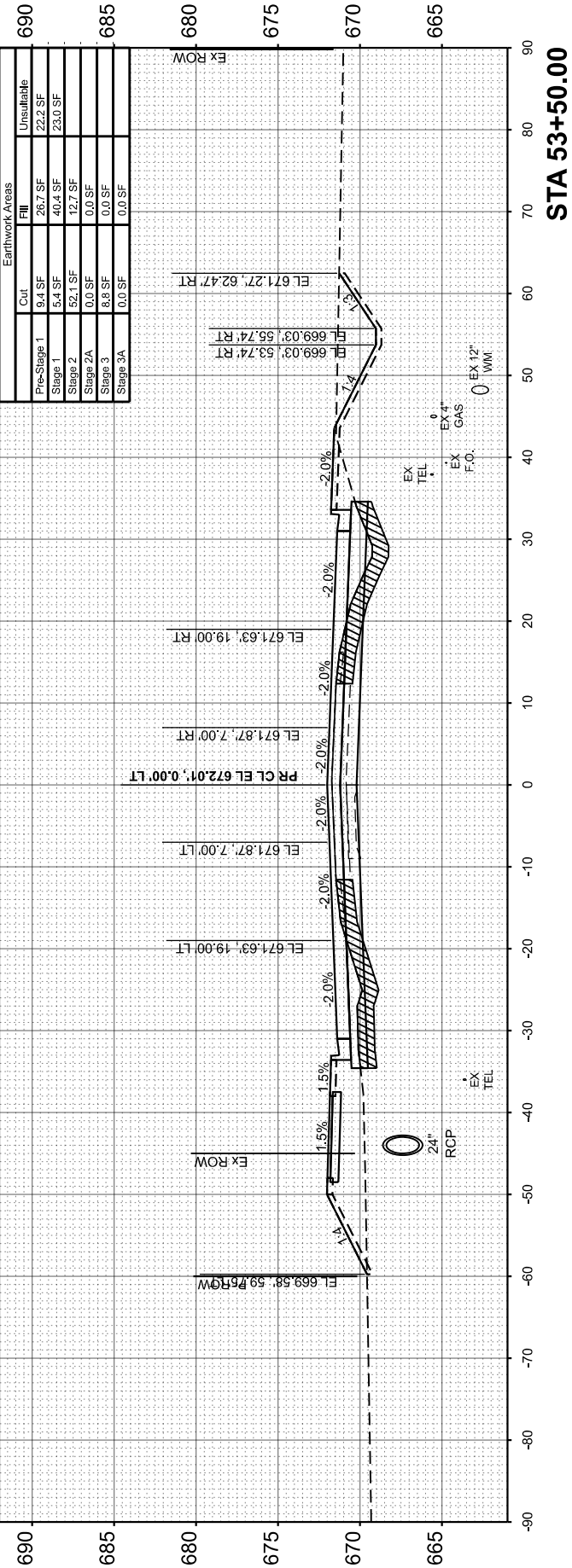
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	158
CONTRACT NO. 87805				
ILLINOIS / FED. AID PROJECT				

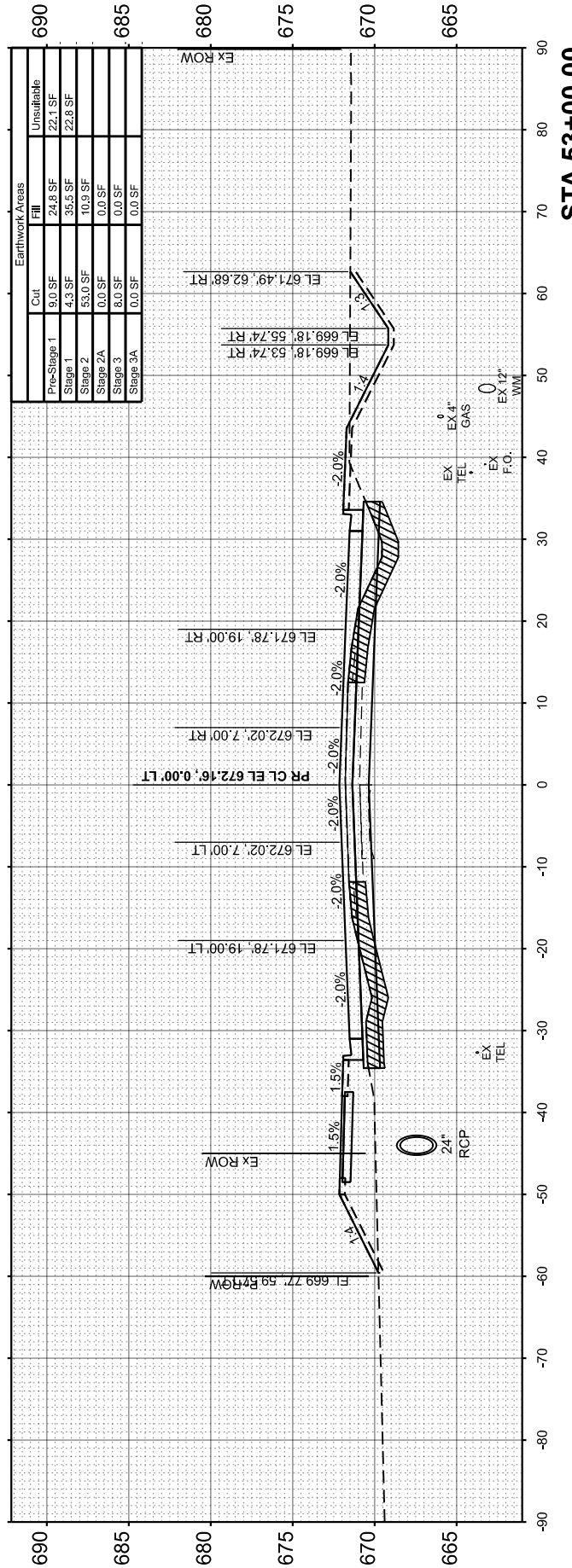
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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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NOTE BOOK	PLOTTED		
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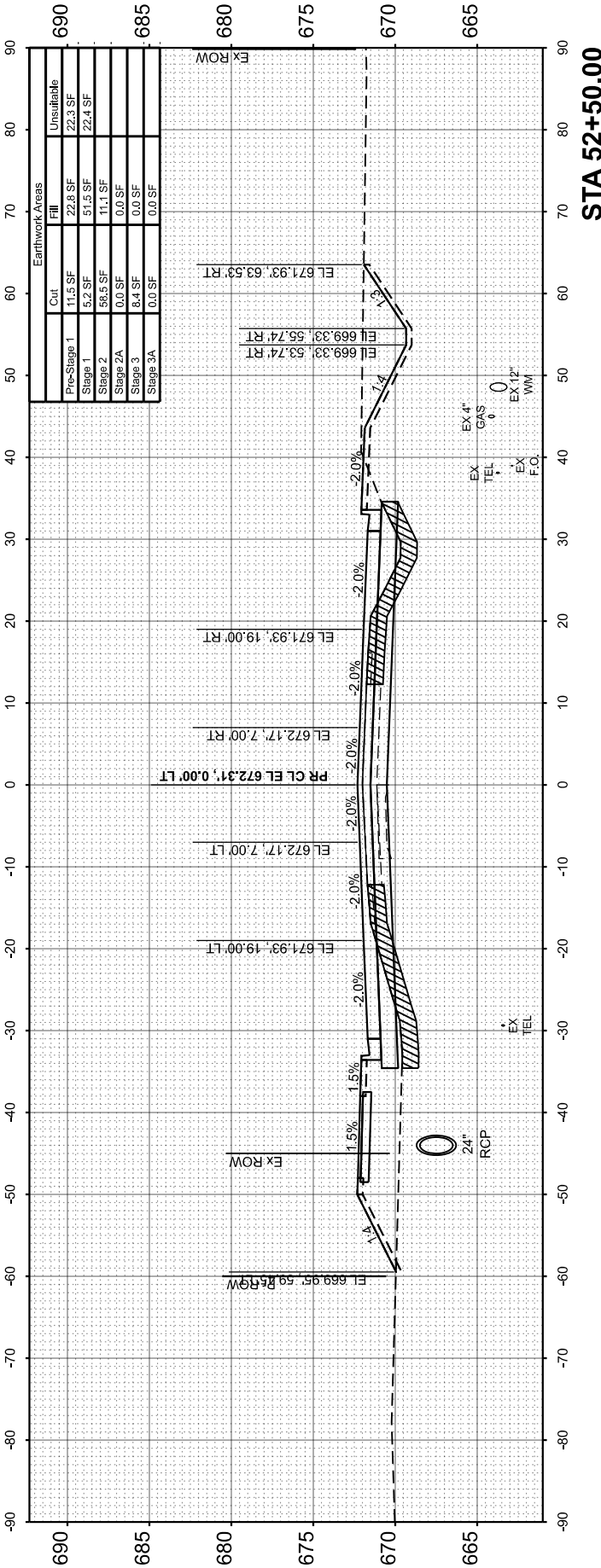
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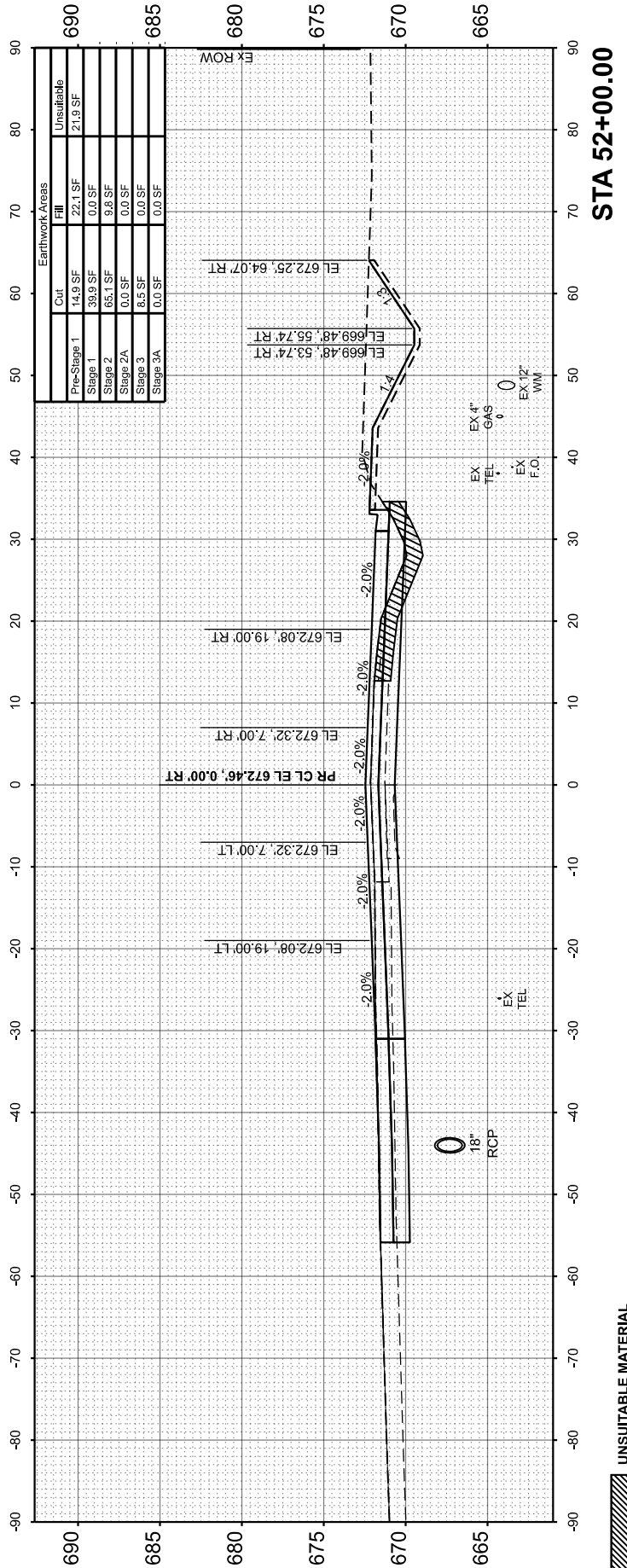
STA 53+50.00



STA 53+00.00



STA 52+50.00



STA 52+00.00



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KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
 CROSS SECTIONS

SCALE: H=10 V=5 SHEET 31 OF 43 SHEETS STA. 52+00.00 TO STA. 53+50.00

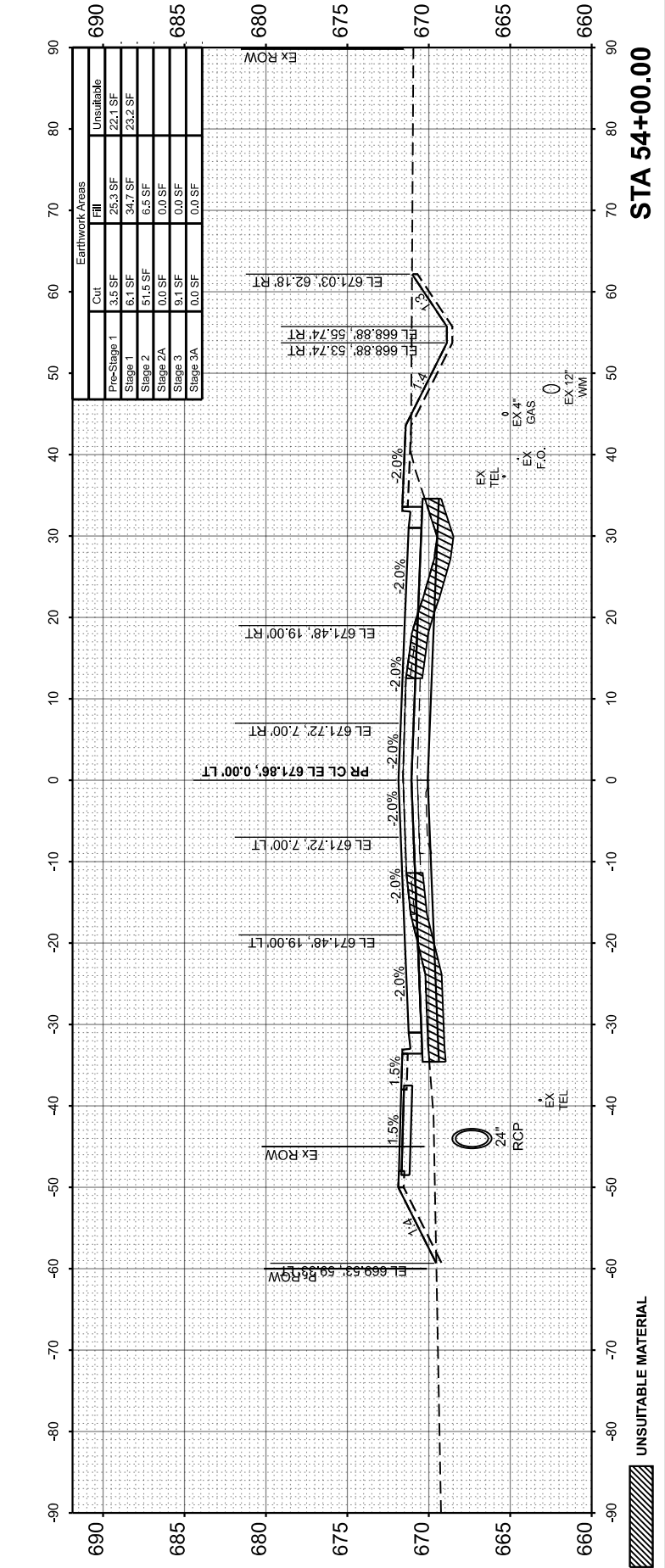
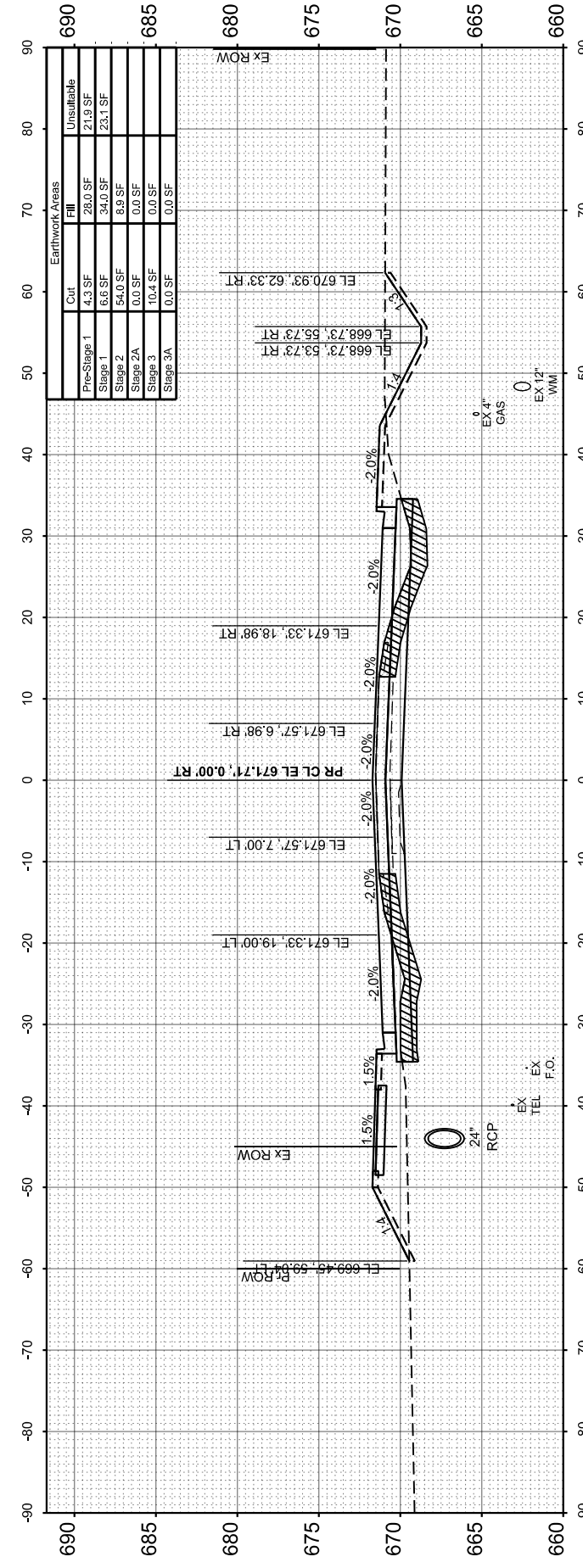
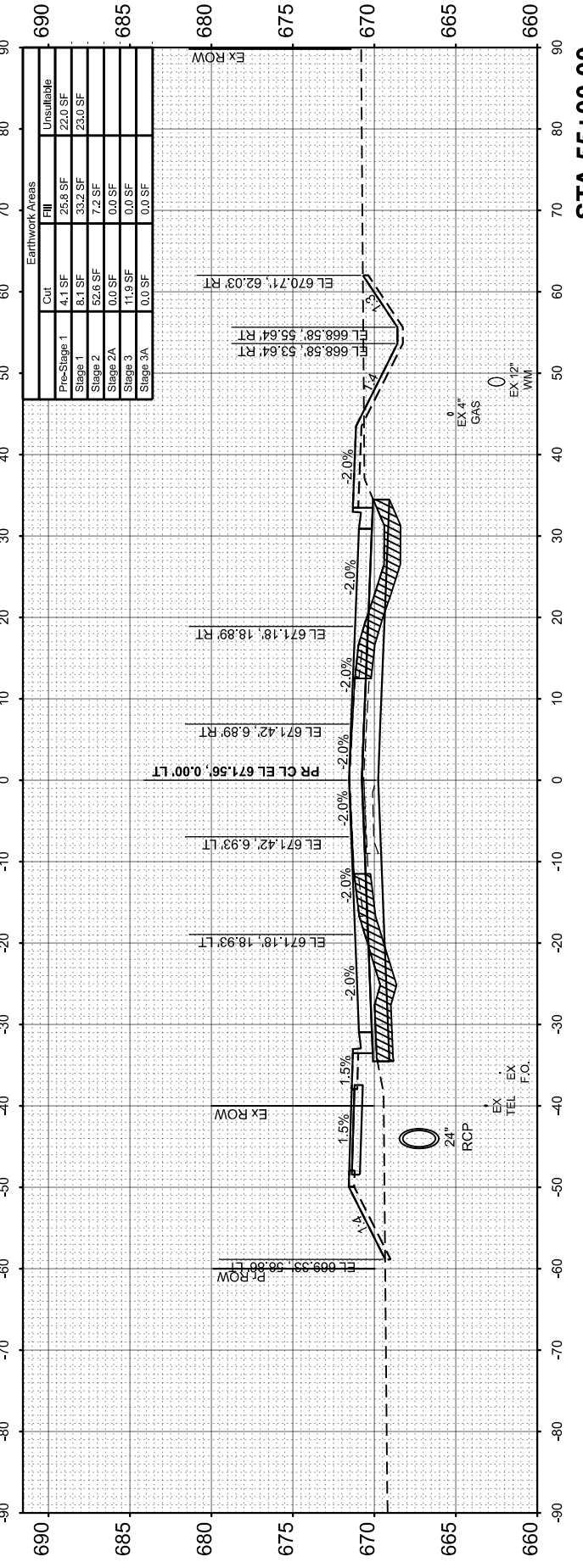
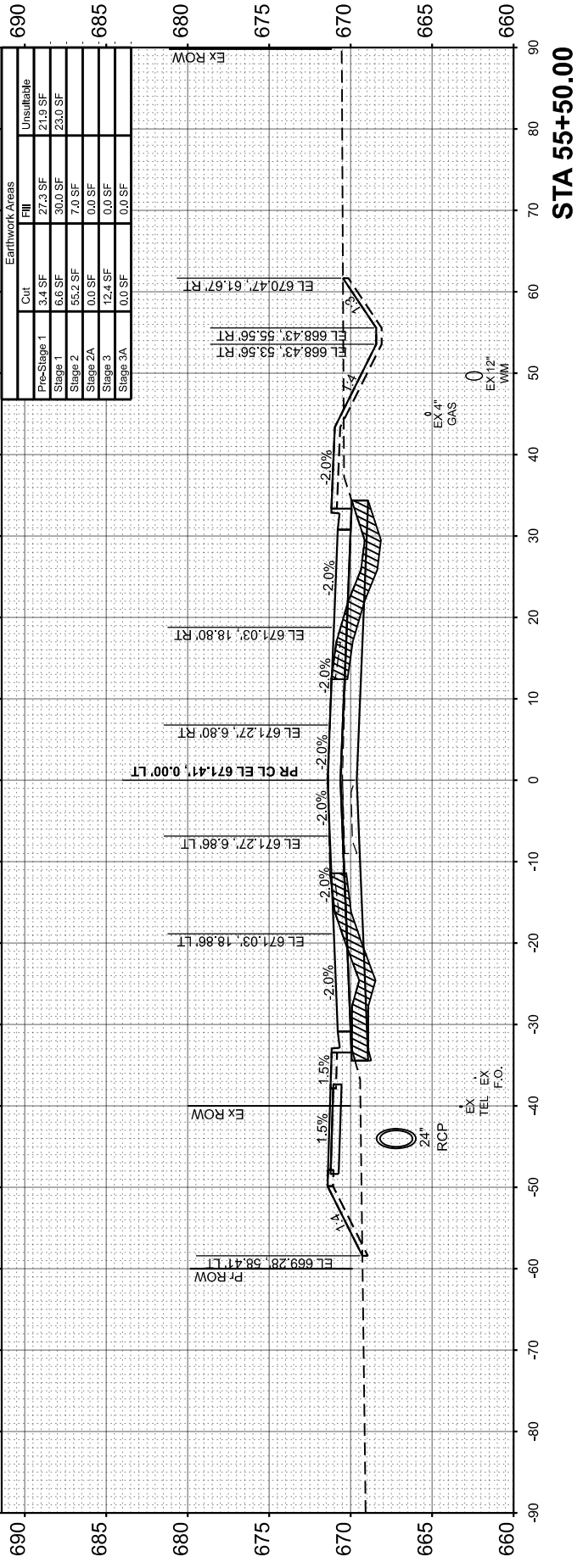
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	159
				CONTRACT NO. 87805
ILLINOIS / FED. AID PROJECT				

UNSUITABLE MATERIAL

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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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PLOT DATE	= 3/21/2024

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CHECKED	-
DATE	-
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REVISED	-
REVISED	-

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5 SHEET 32 OF 43 SHEETS STA. 54+00.00 TO STA. 55+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	160
				CONTRACT NO. 87805
				ILLINOIS / FED. AID PROJECT

UNSUITABLE MATERIAL

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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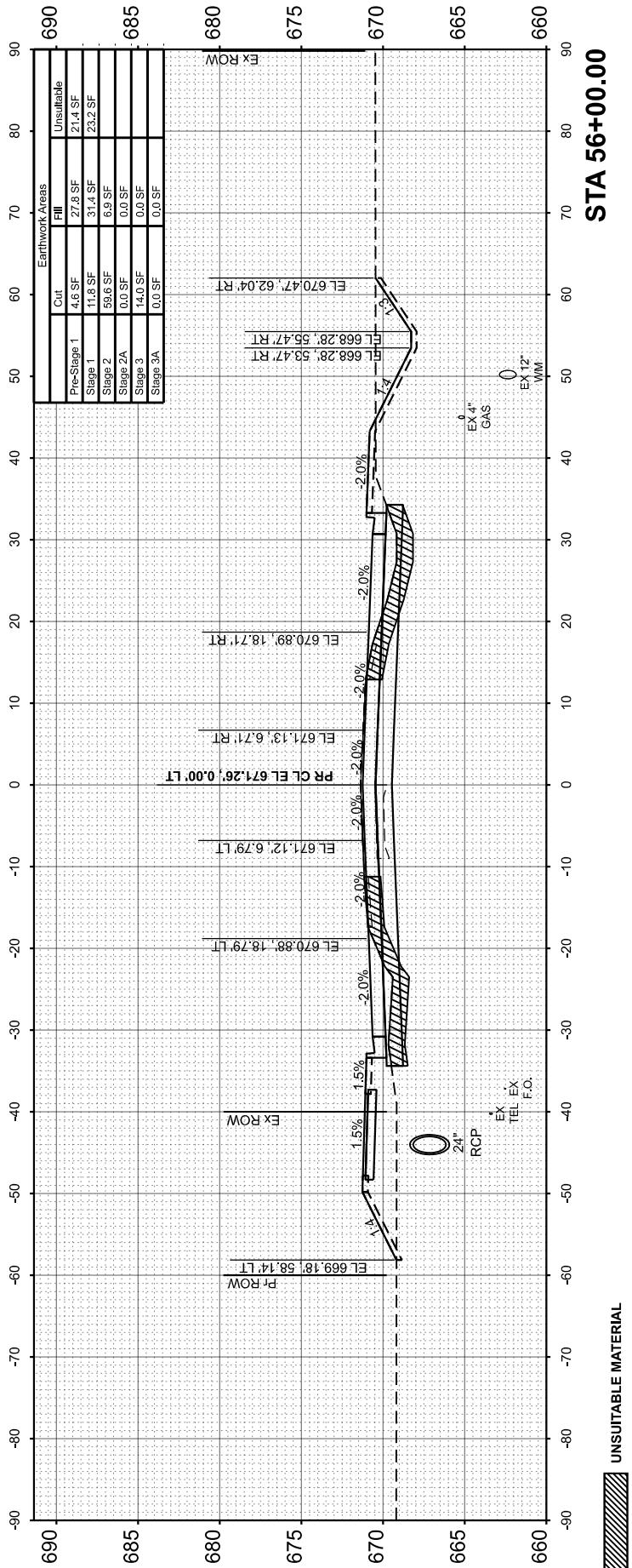
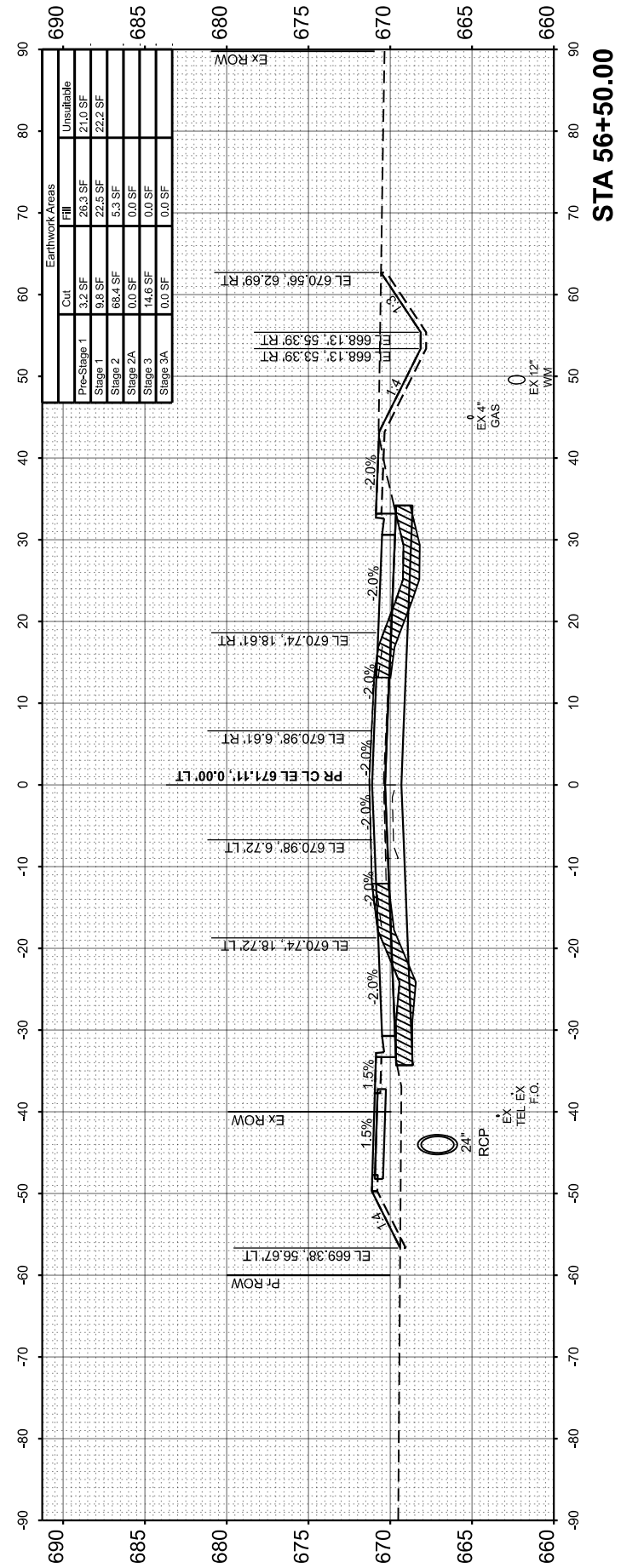
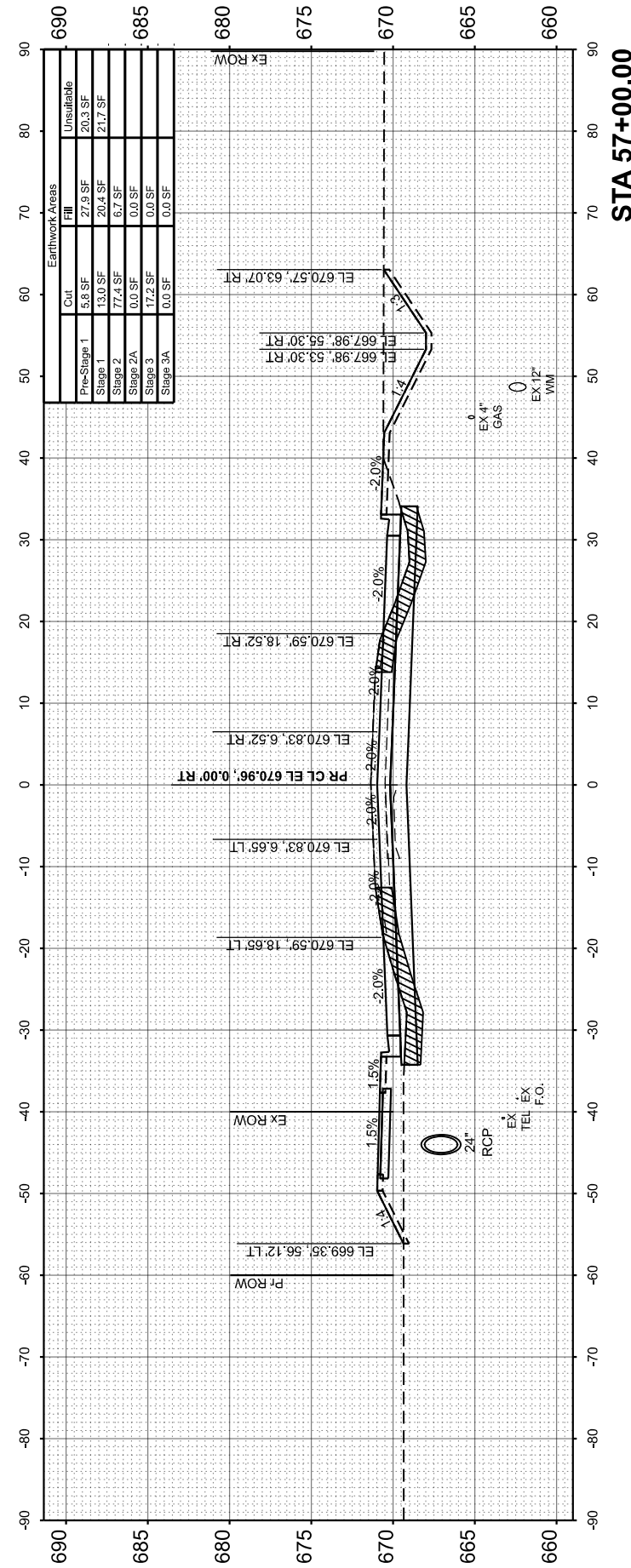
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 33    OF 43 SHEETS    STA. 56+00.00    TO STA. 57+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	161
				CONTRACT NO. 87805
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
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PLOT DATE	= 3/21/2024

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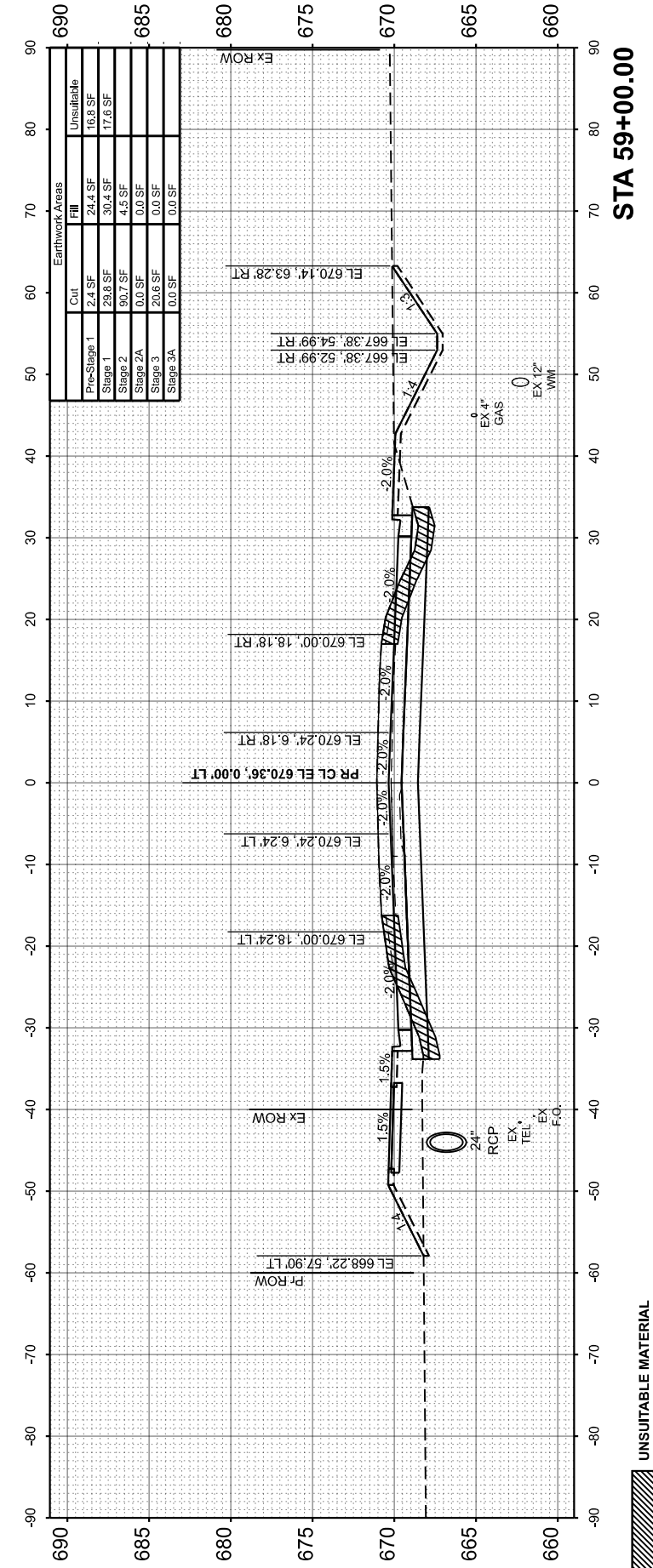
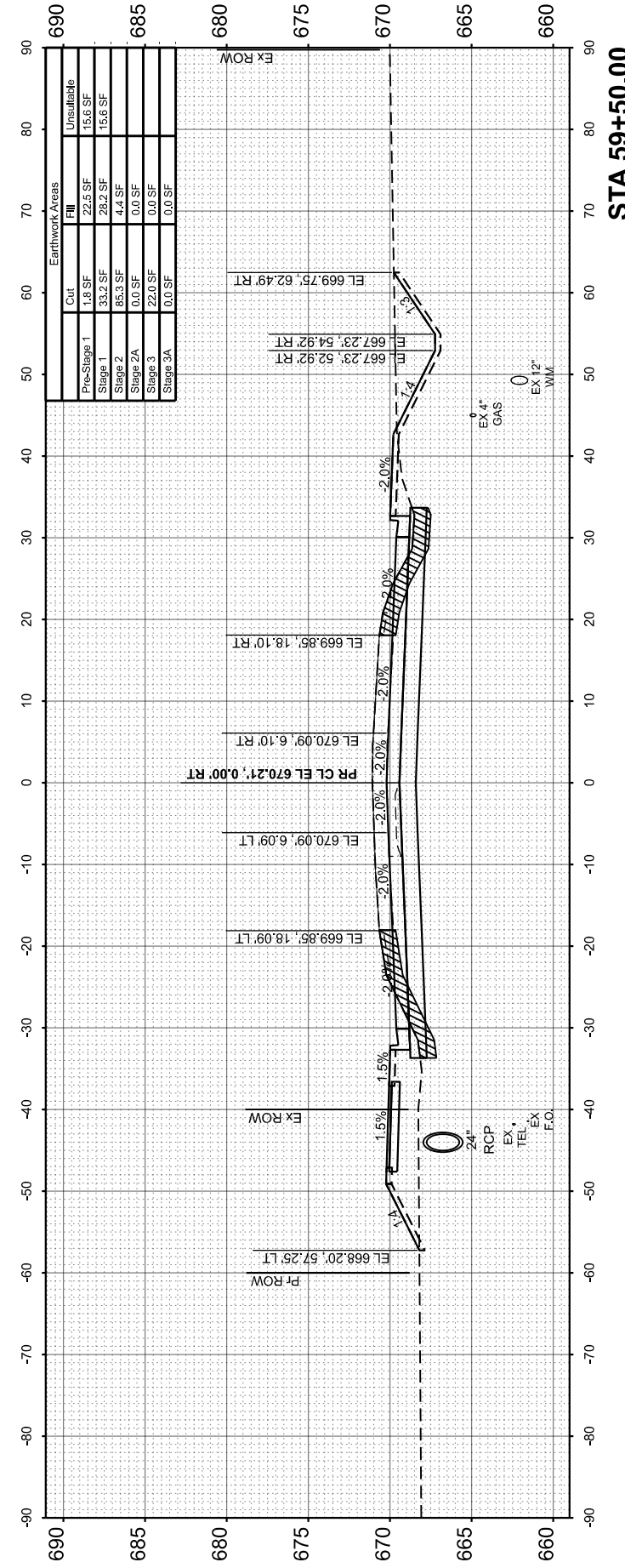
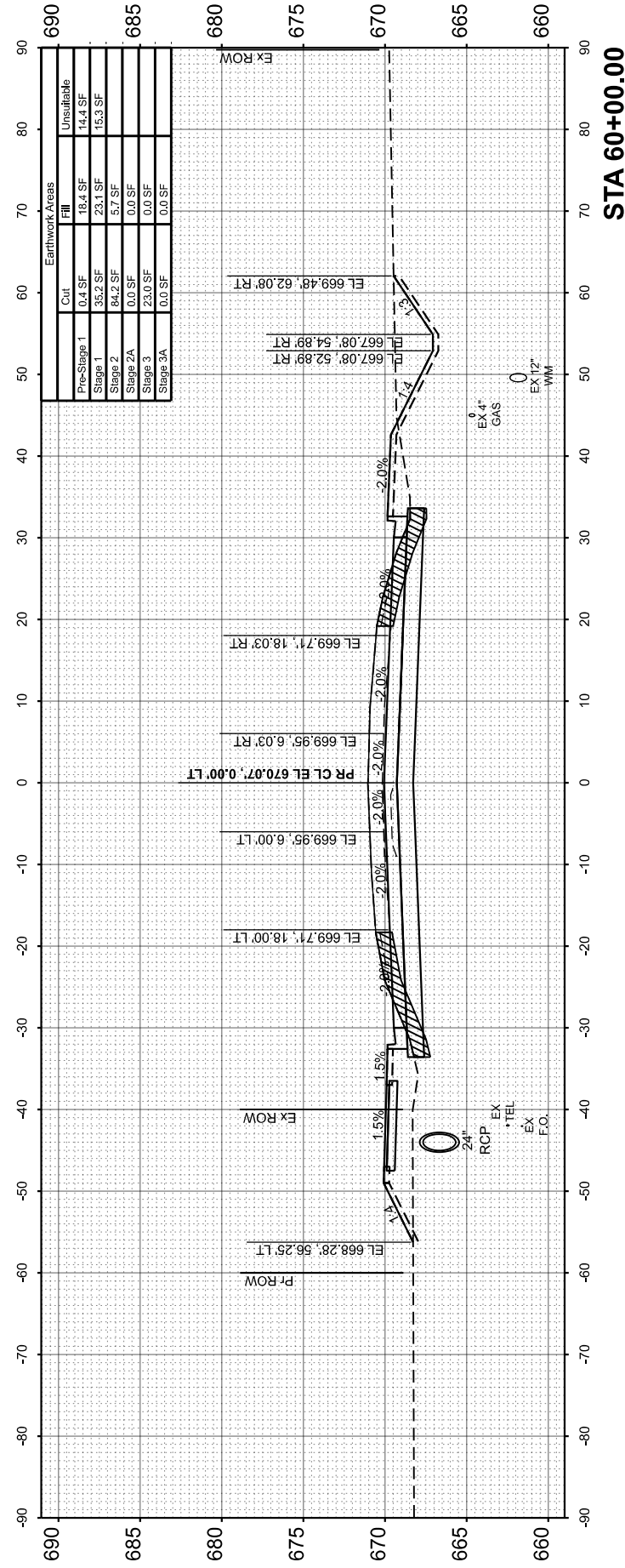
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**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5 SHEET 35 OF 43 SHEETS STA. 59+00.00 TO STA. 60+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	163
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: \$MODELNAMES  
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PLotted DATE =	3/21/2024

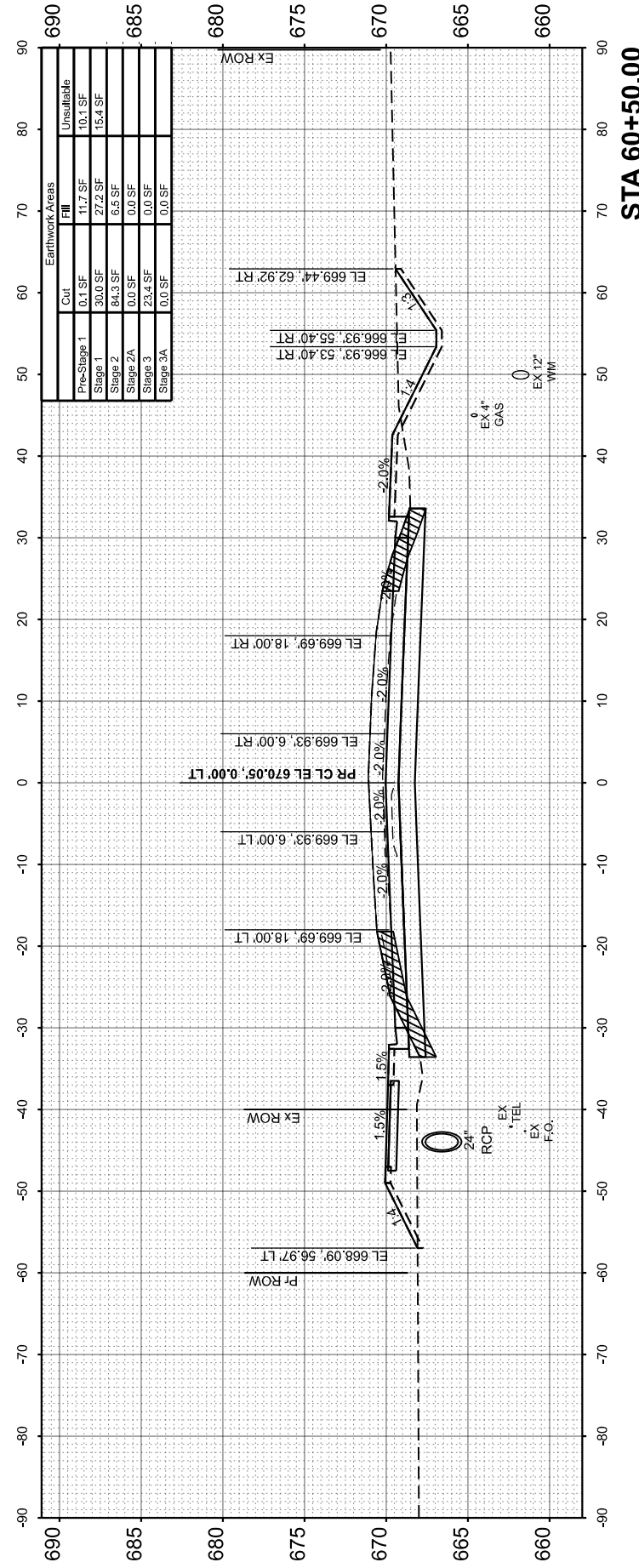
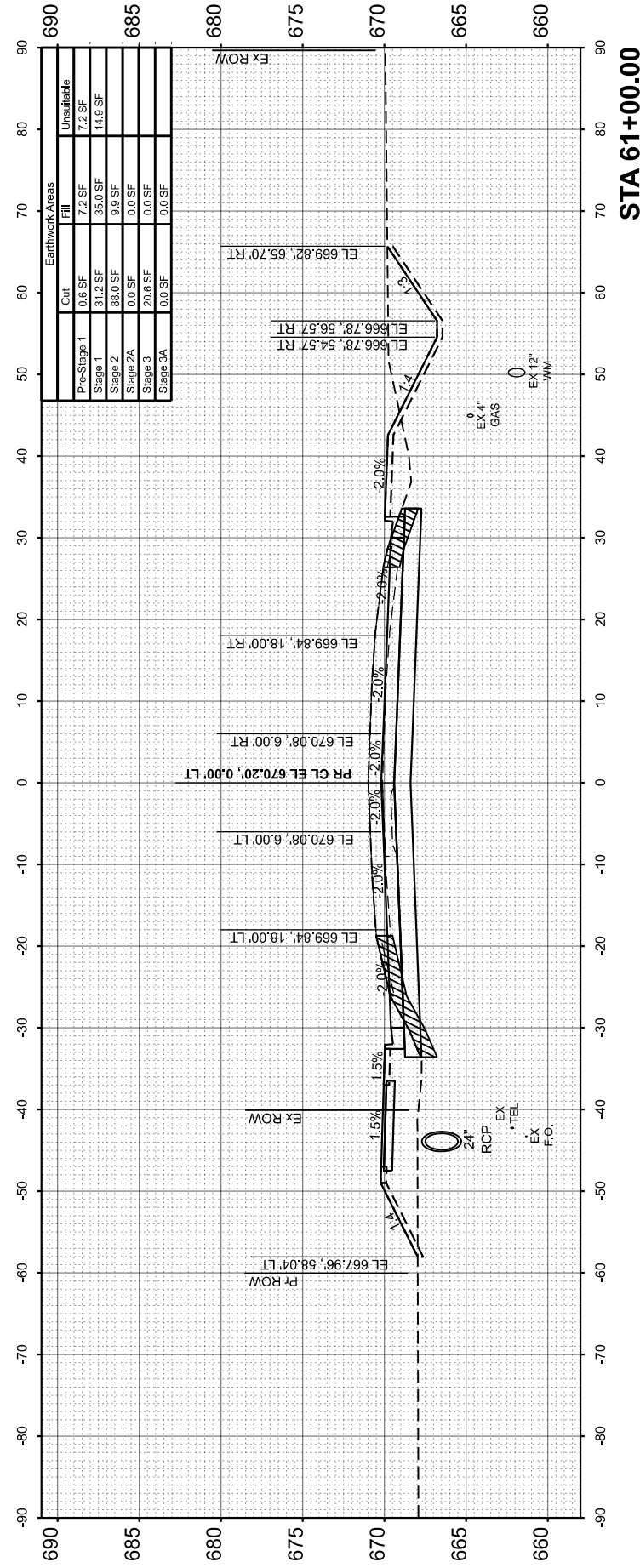
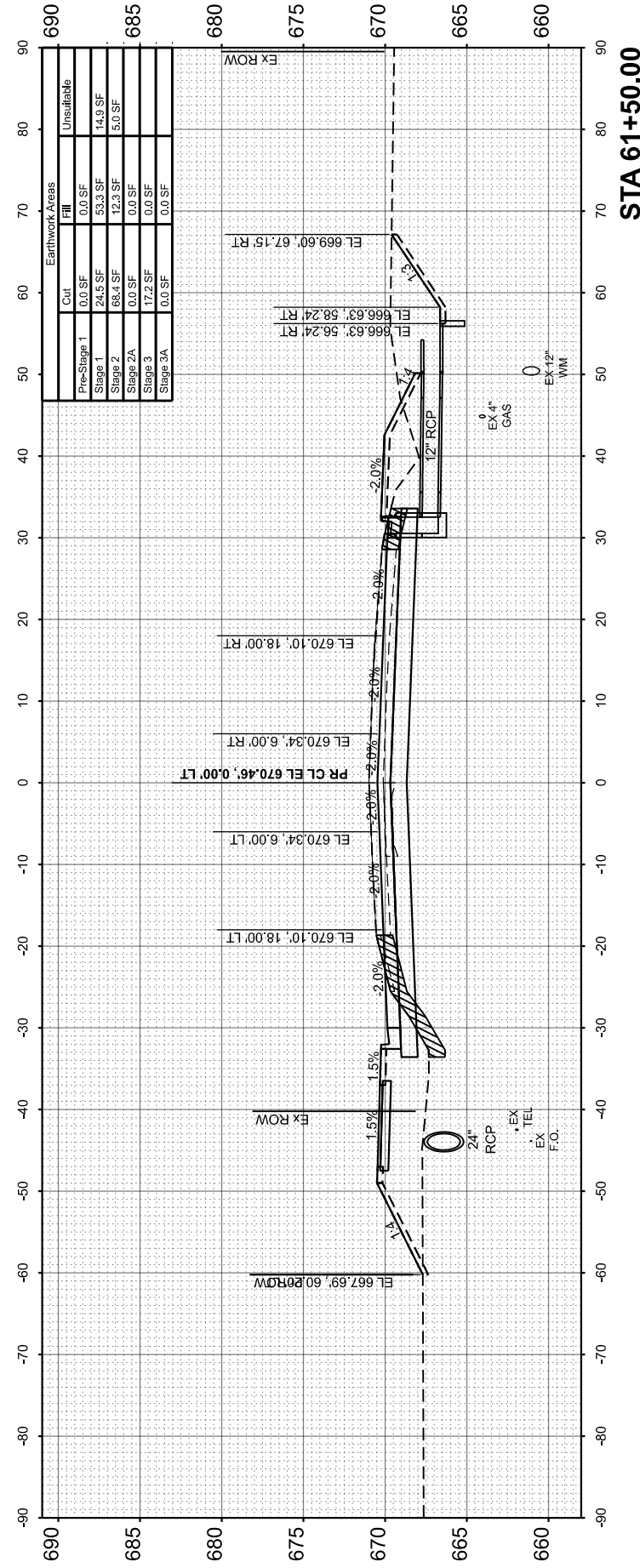
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REVISd -	

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 36 OF 43 SHEETS    STA. 60+50.00 TO STA. 61+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	164
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL



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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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CHECKED	-
PLOT DATE	= 3/21/2024
DATE	-

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DRAWN	-
CHECKED	-
DATE	-

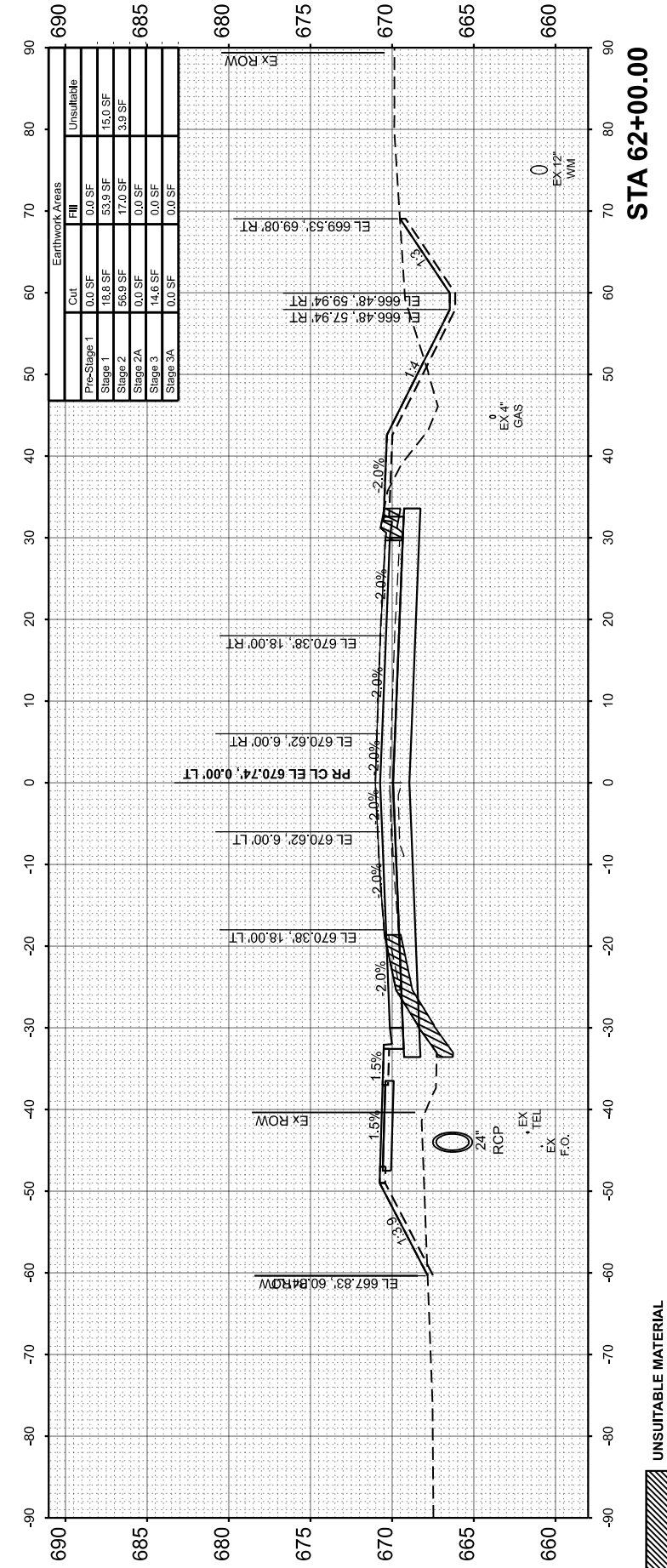
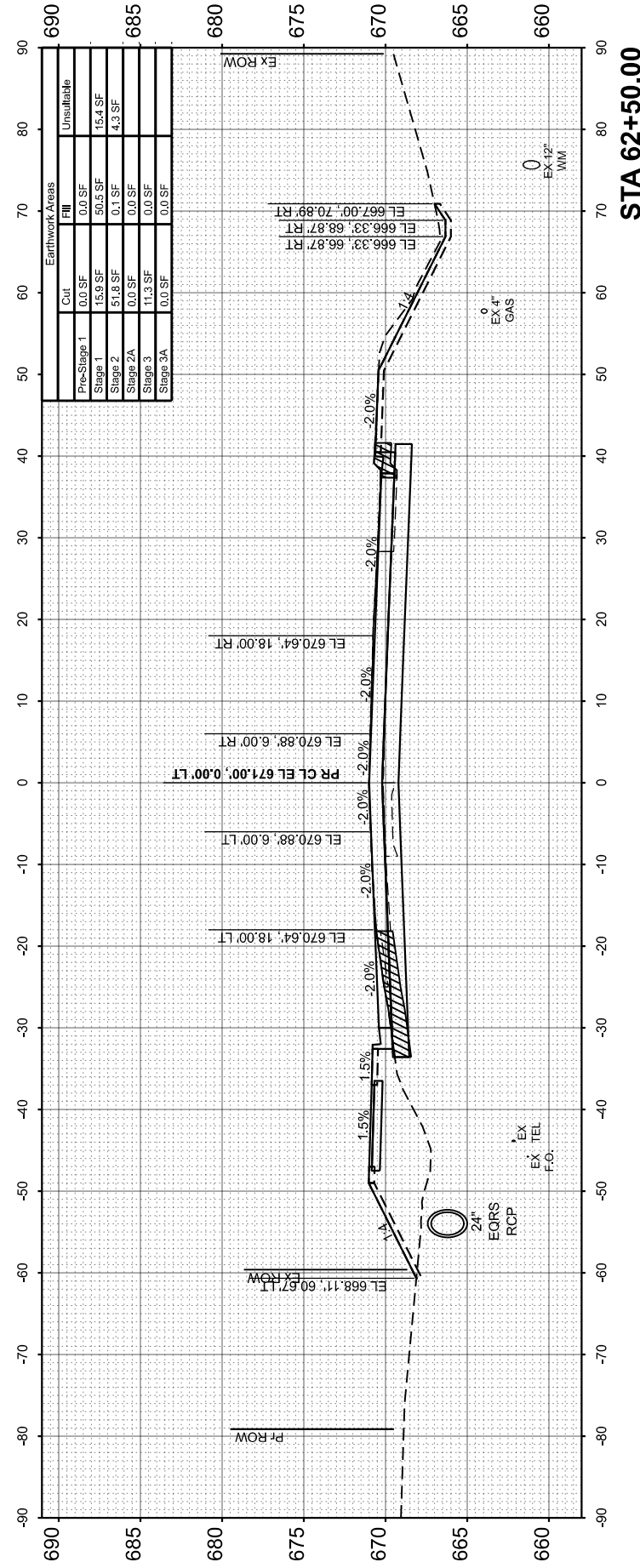
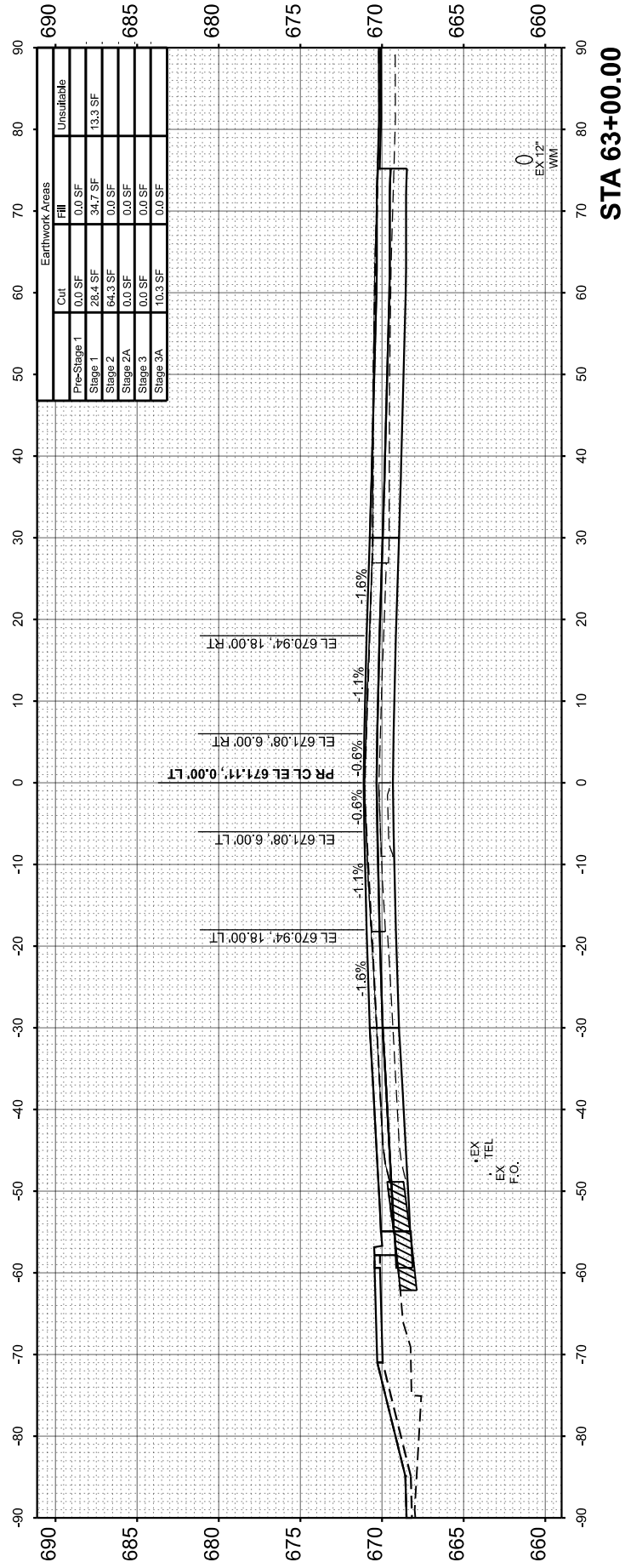
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REVISED	-

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 37    OF 43 SHEETS    STA. 62+00.00    TO STA. 63+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	165
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
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PLOT DATE	= 3/21/2024

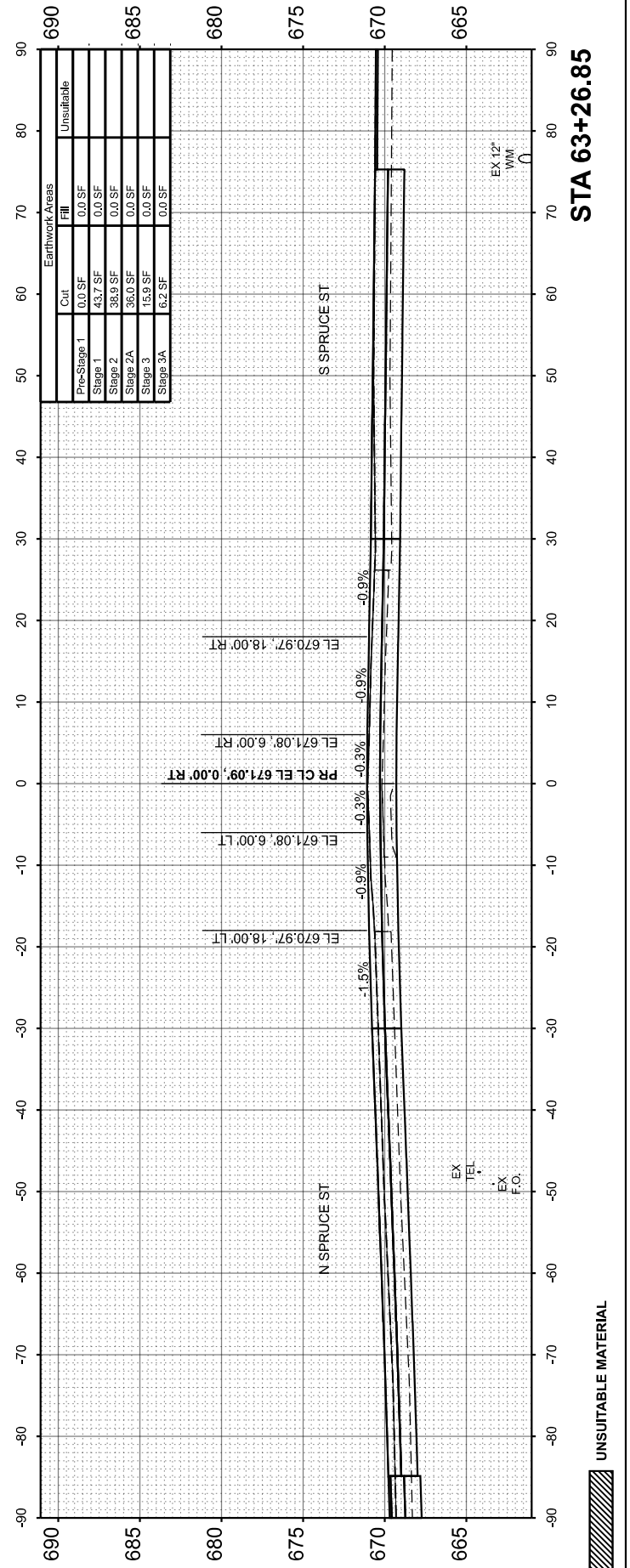
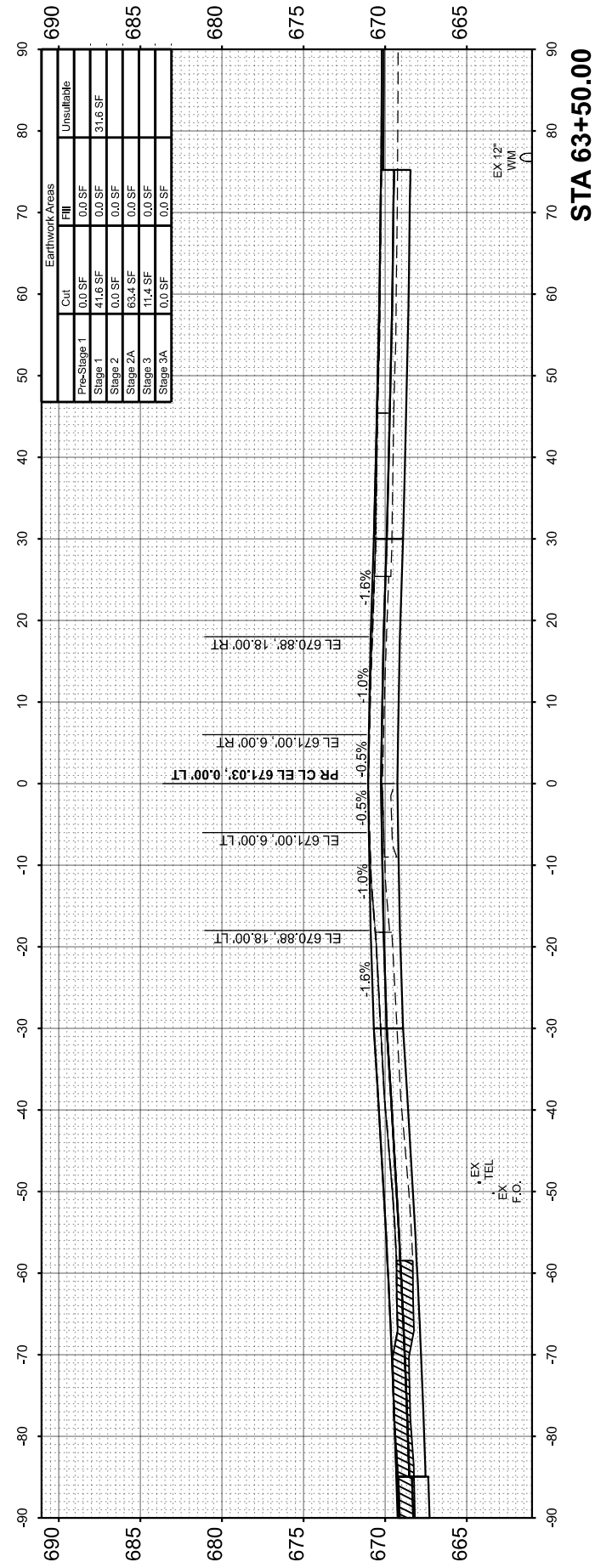
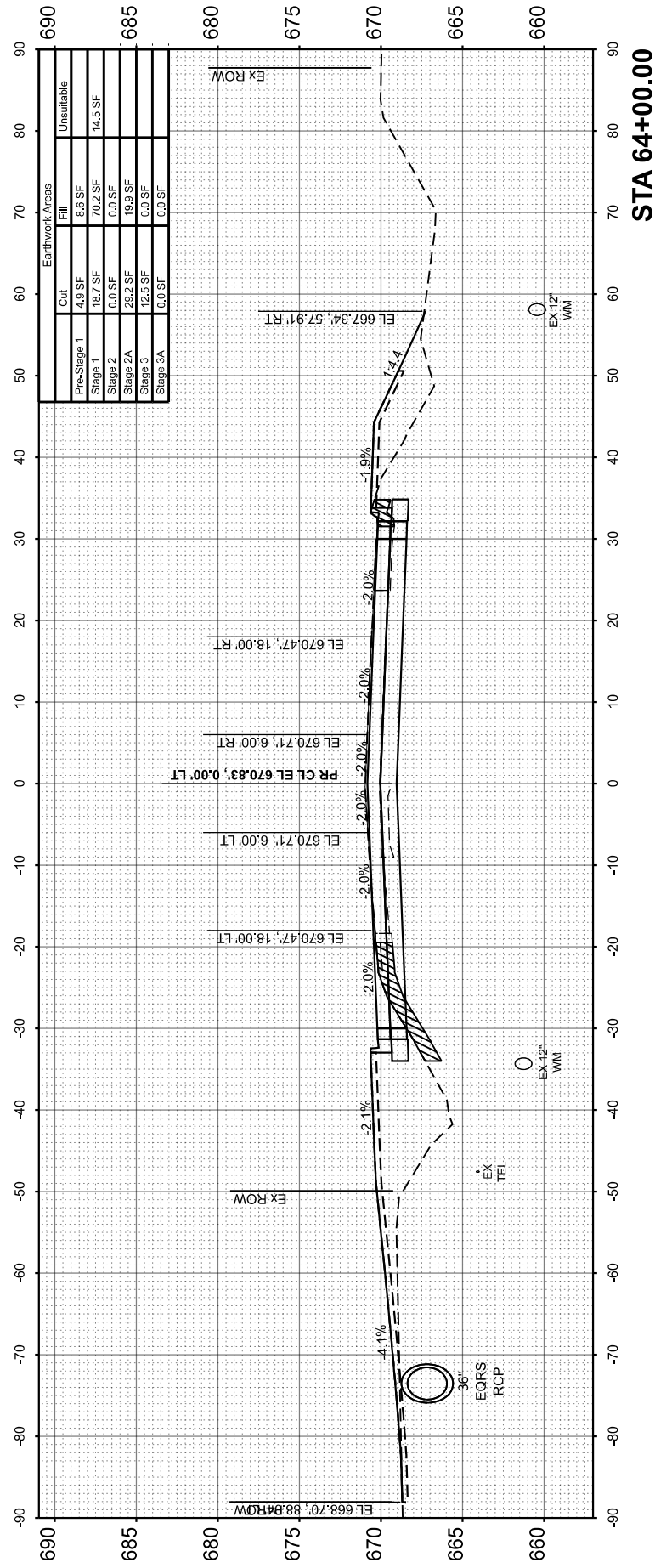
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CHECKED	-	REVISED	-
DATE	-	REVISED	-

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 38 OF 43 SHEETS    STA. 63+26.85 TO STA. 64+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	166
CONTRACT NO. 87805				
ILLINOIS		FED. AID PROJECT		



UNSUITABLE MATERIAL

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
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	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
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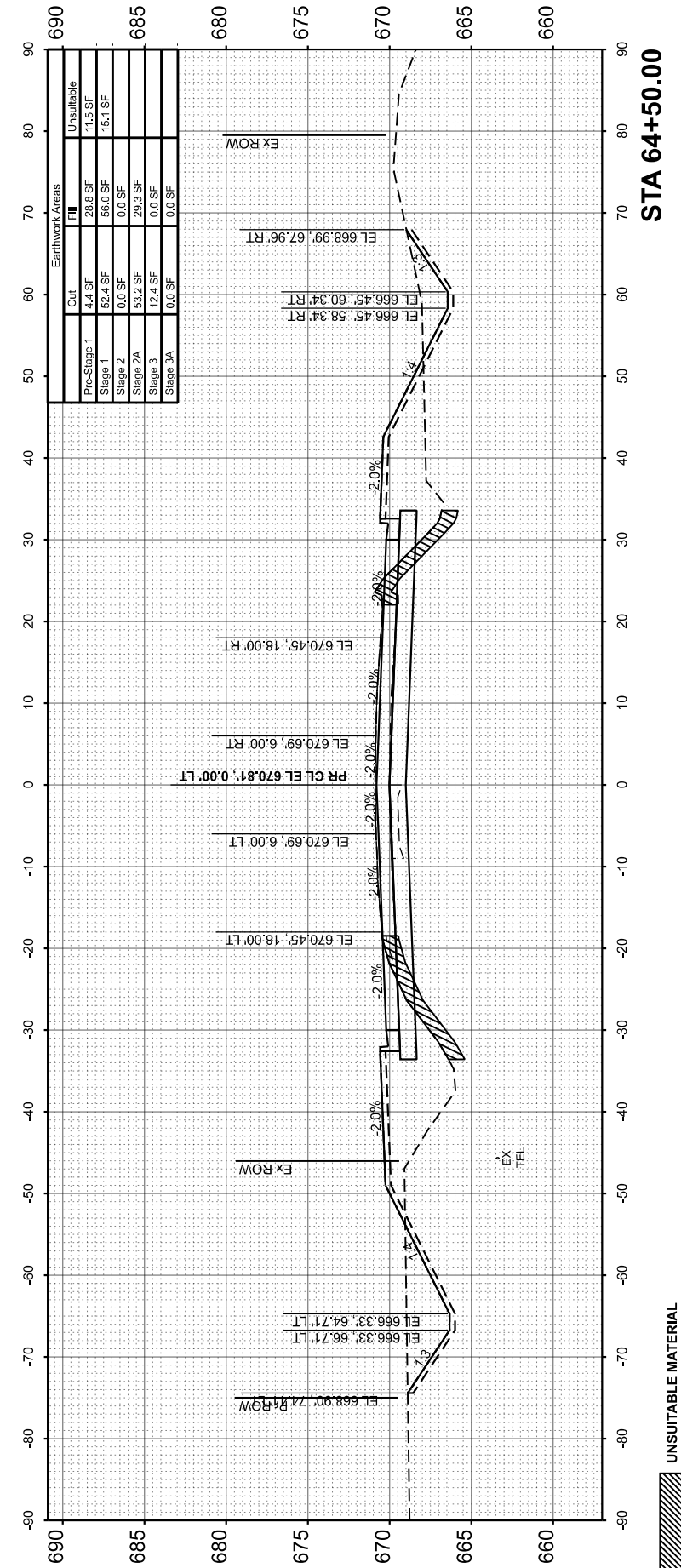
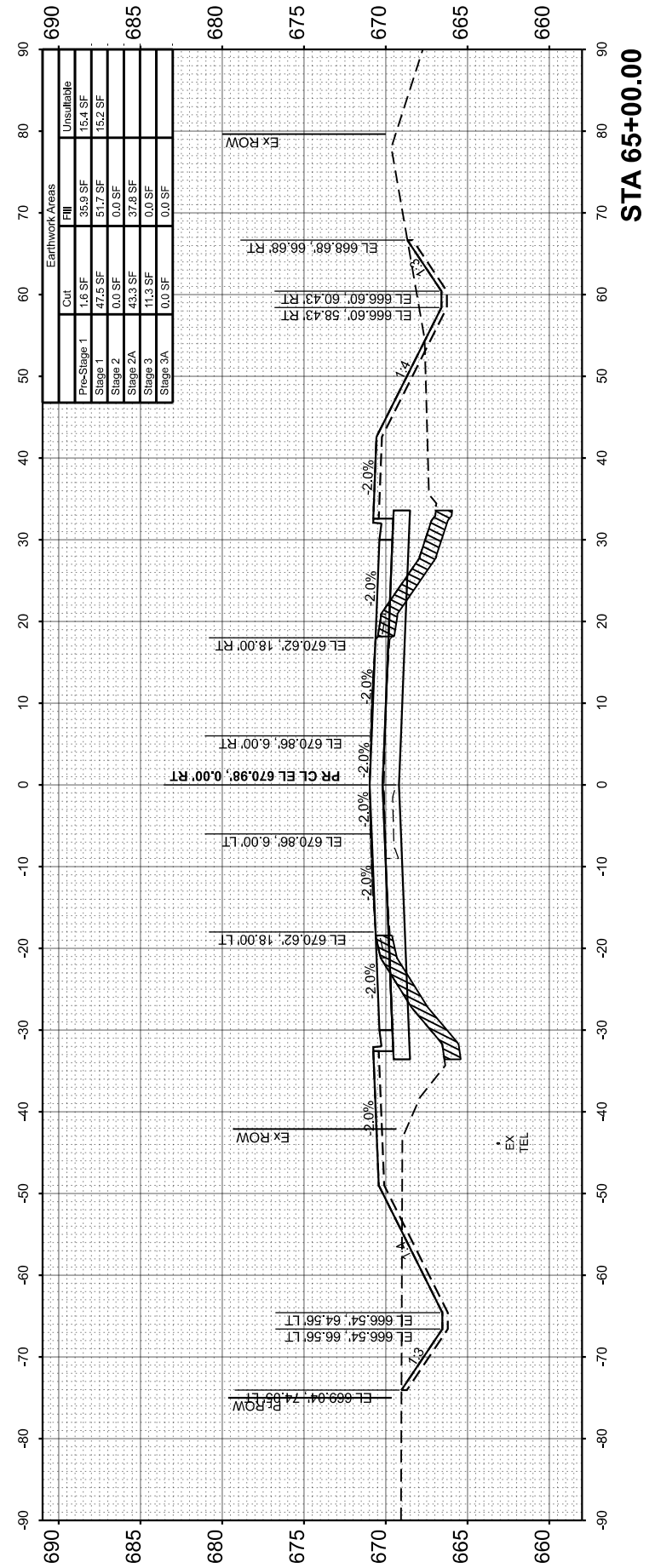
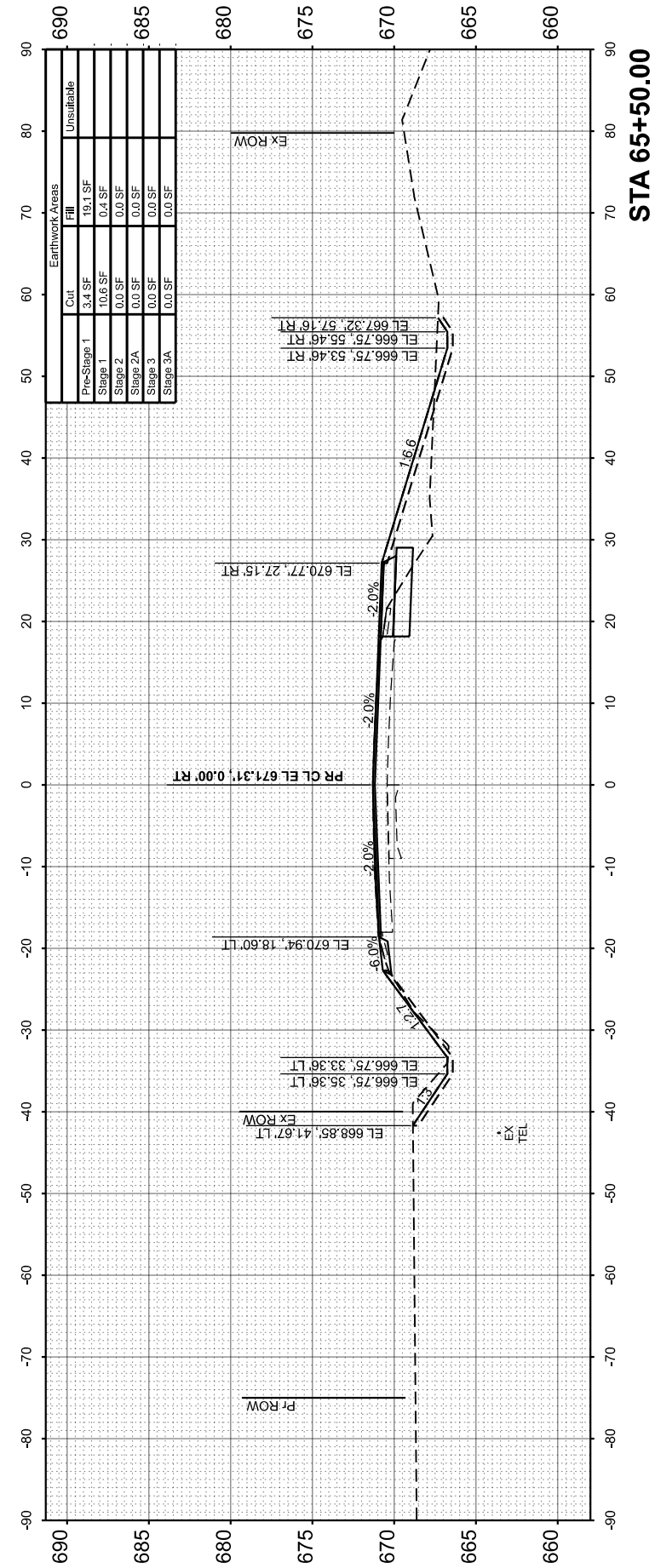
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CHECKED -	REVISED -
DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5 SHEET 39 OF 43 SHEETS STA. 64+50.00 TO STA. 65+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	167
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				

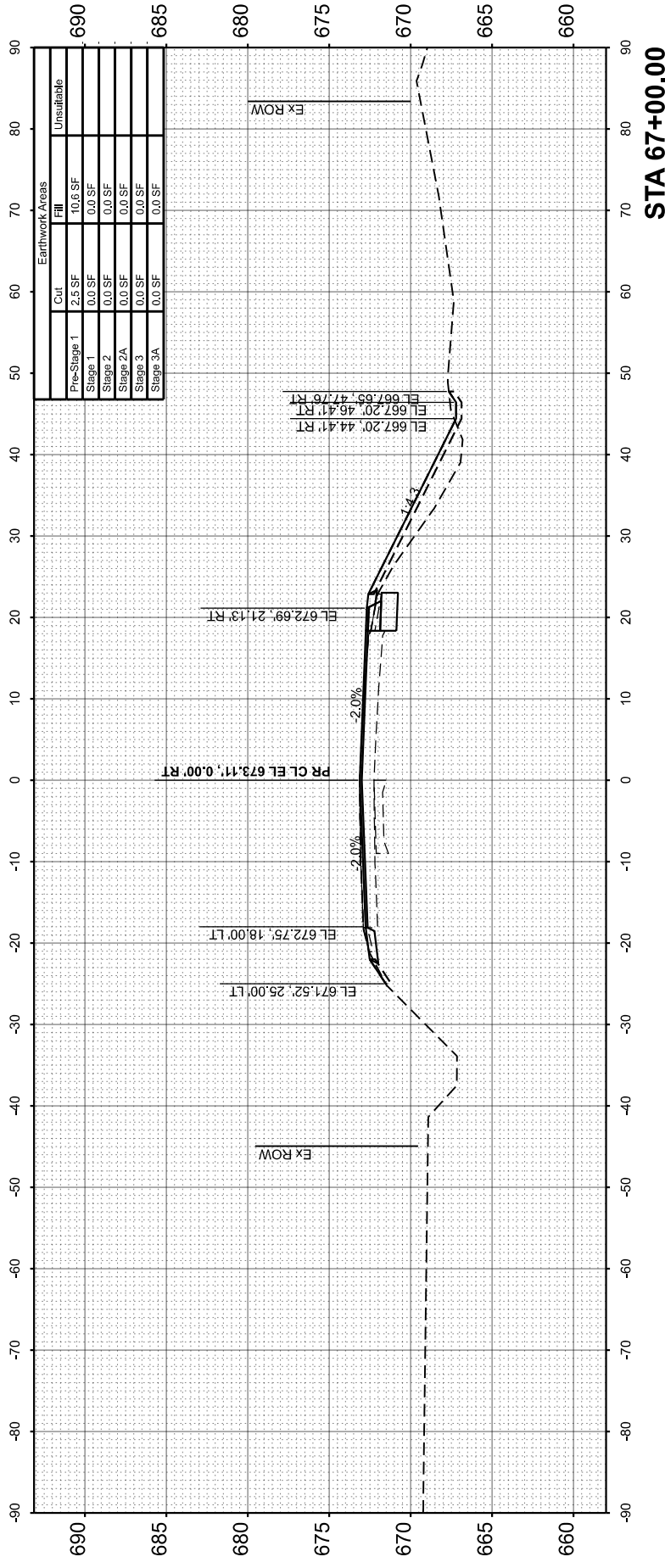


UNSUITABLE MATERIAL

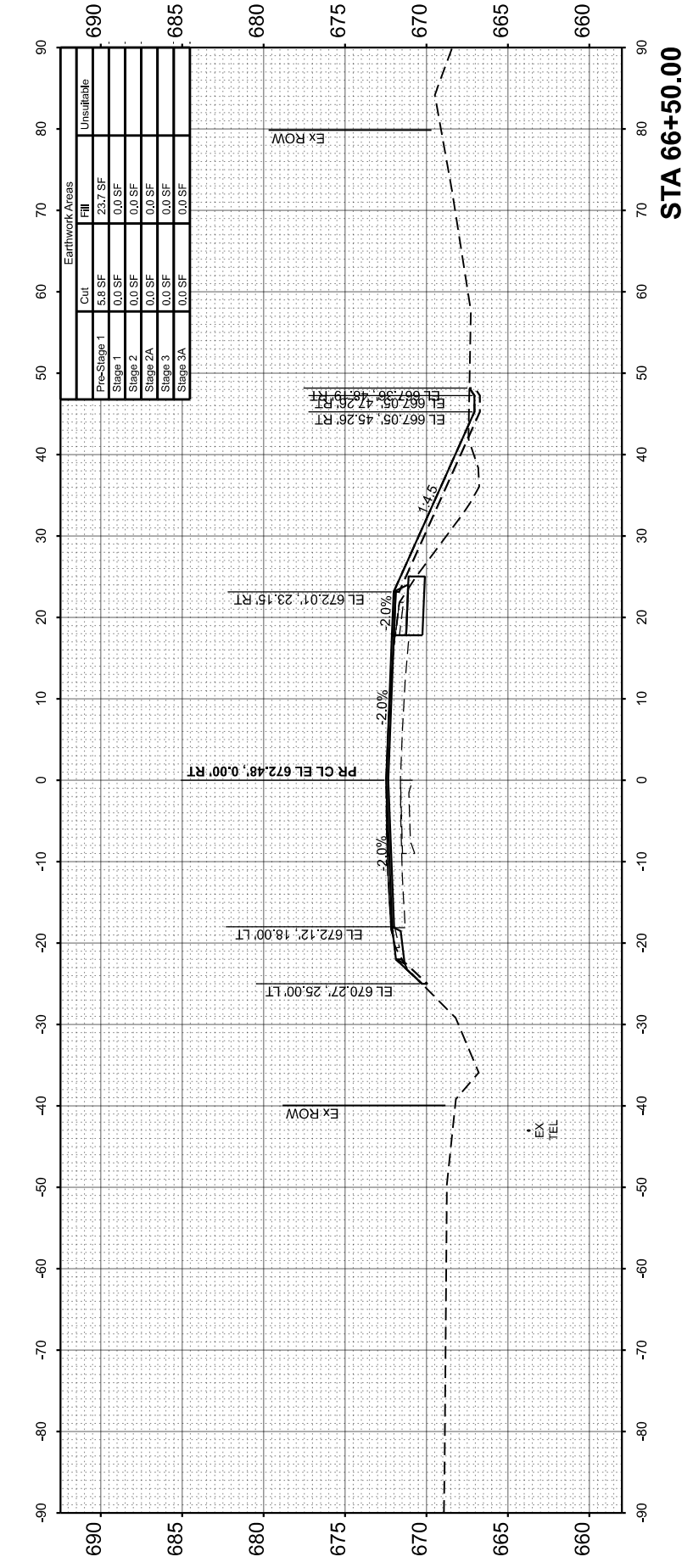
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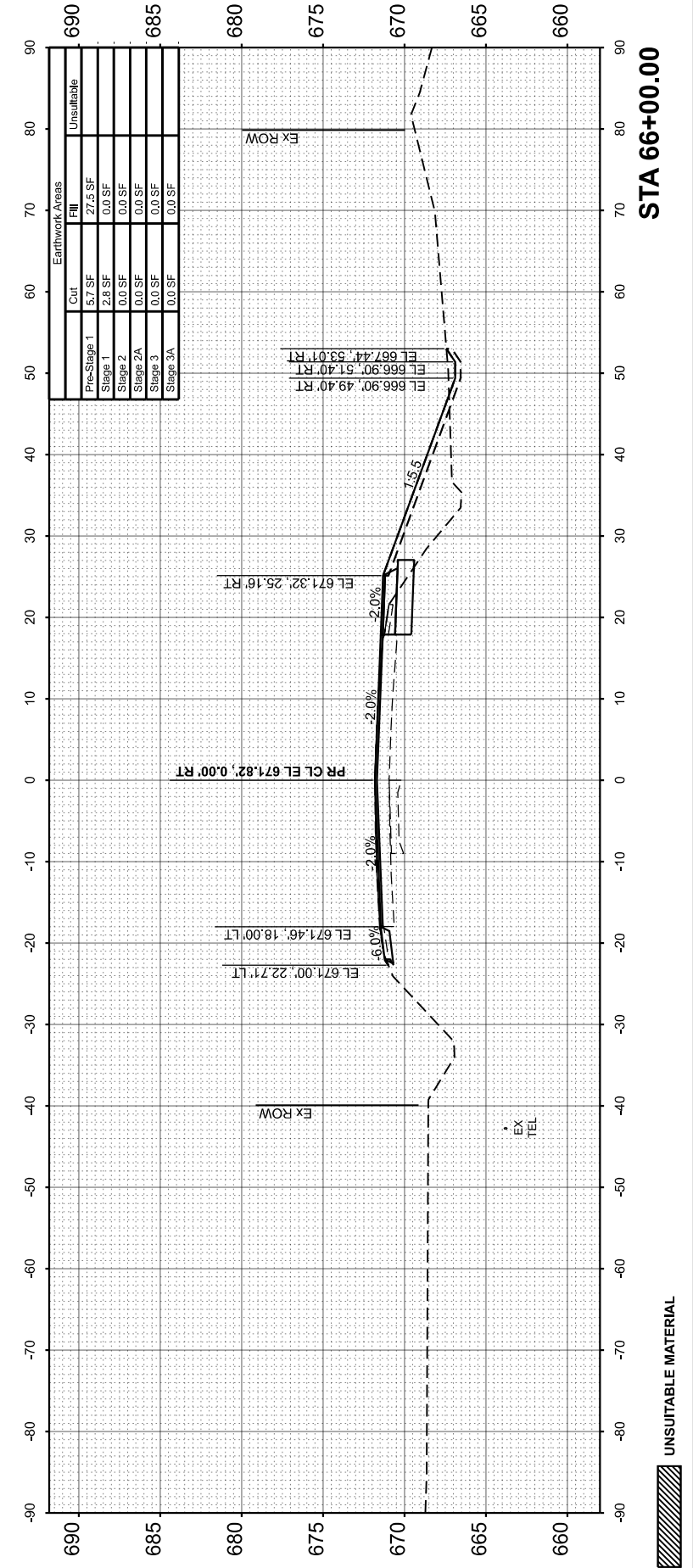
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Earthwork Areas	
Cut	Fill
Pre-Stage 1	10.6 SF
Stage 1	0.0 SF
Stage 2	0.0 SF
Stage 2A	0.0 SF
Stage 3	0.0 SF
Stage 3A	0.0 SF
Unsuitable	



Earthwork Areas	
Cut	Fill
Pre-Stage 1	5.5 SF
Stage 1	23.7 SF
Stage 2	0.0 SF
Stage 2A	0.0 SF
Stage 3	0.0 SF
Stage 3A	0.0 SF
Unsuitable	



Earthwork Areas	
Cut	Fill
Pre-Stage 1	5.7 SF
Stage 1	27.5 SF
Stage 2	0.0 SF
Stage 2A	0.0 SF
Stage 3	0.0 SF
Stage 3A	0.0 SF
Unsuitable	



USER NAME = BDeCrane	DESIGNED -
PLOT SCALE = 0.16666833' / in.	DRAWN -
PLOT DATE = 3/21/2024	CHECKED -
	DATE -

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REVISIED -

KANKAKEE COUNTY  
HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS

SCALE: H=10 V=5 SHEET 40 OF 43 SHEETS STA. 66+00.00 TO STA. 67+00.00

F.A.S. RTE. 311	SECTION 08-00286-00-FP	COUNTY KANKAKEE	TOTAL SHEETS 173	SHEET NO. 168
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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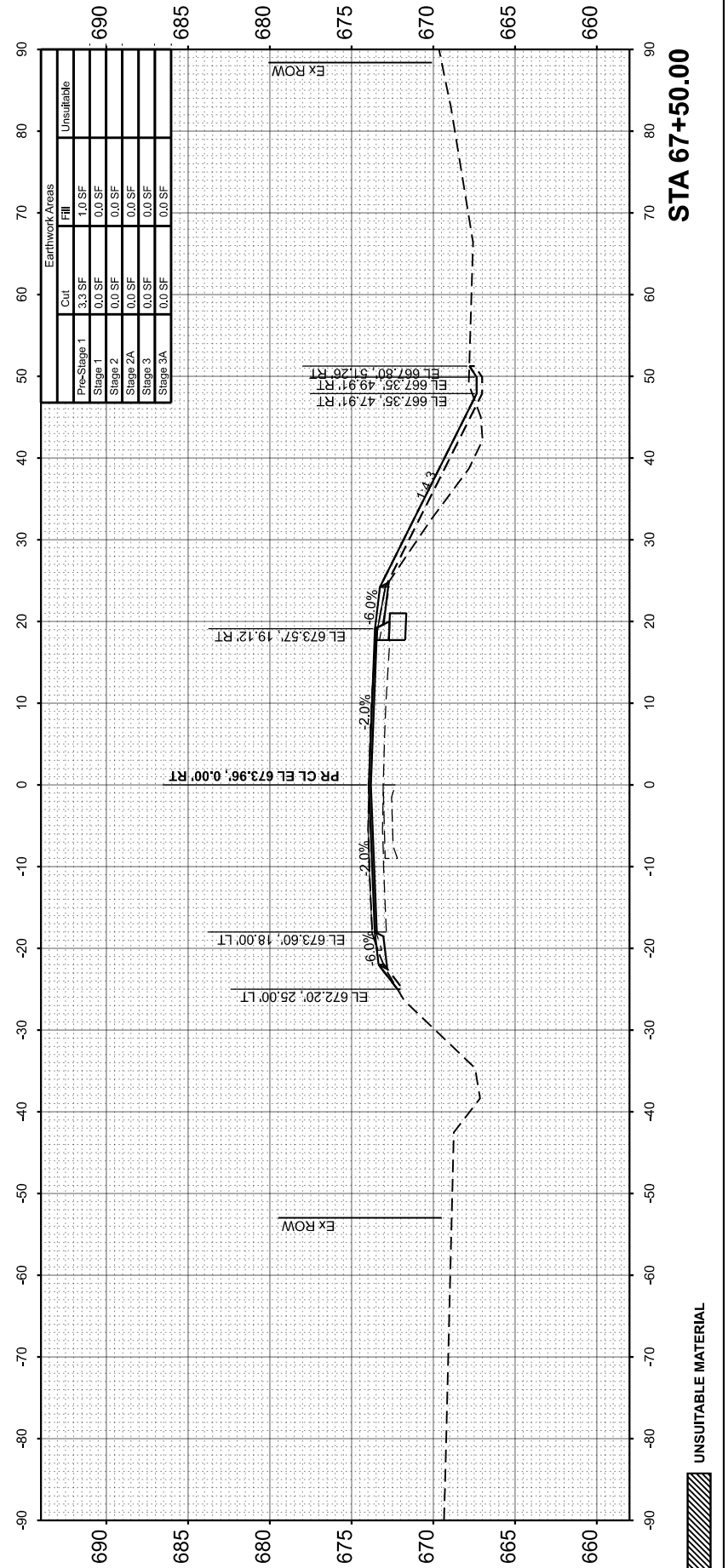
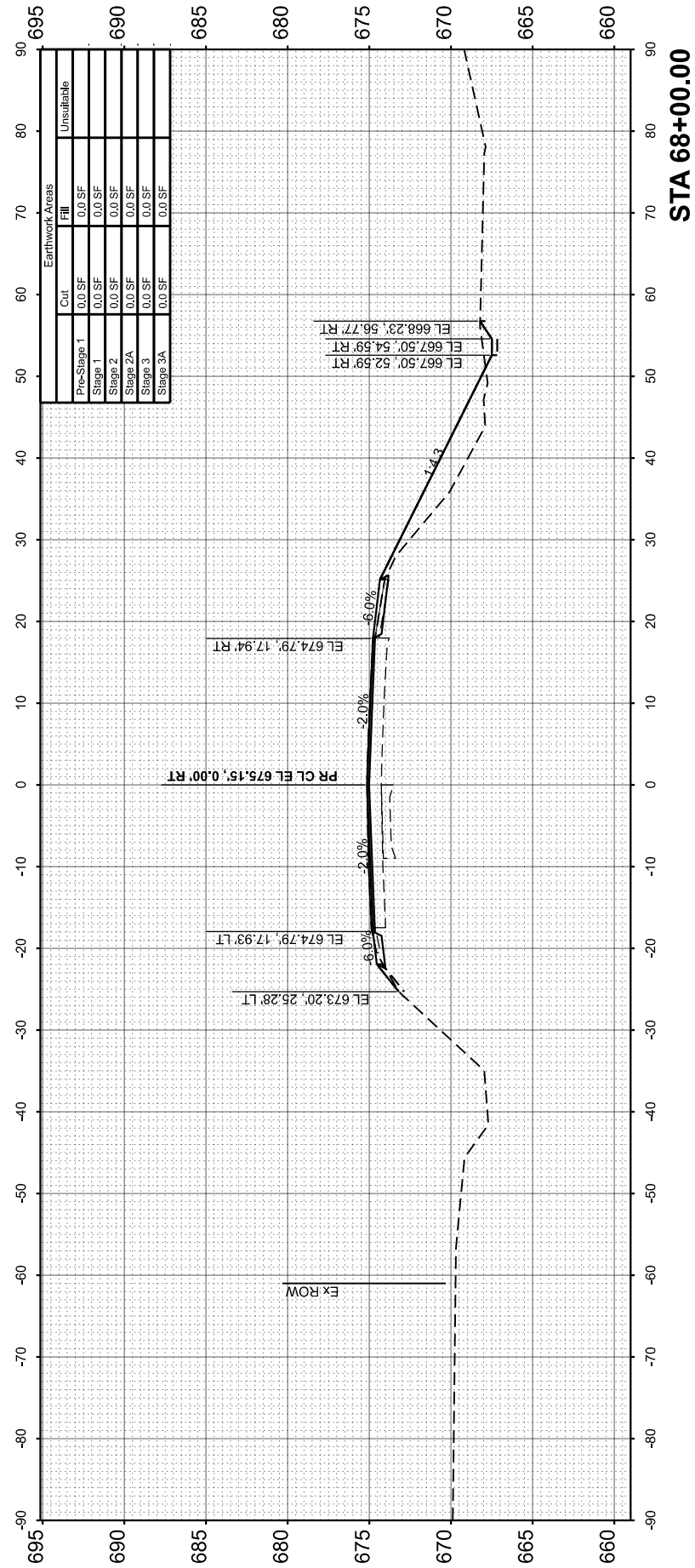
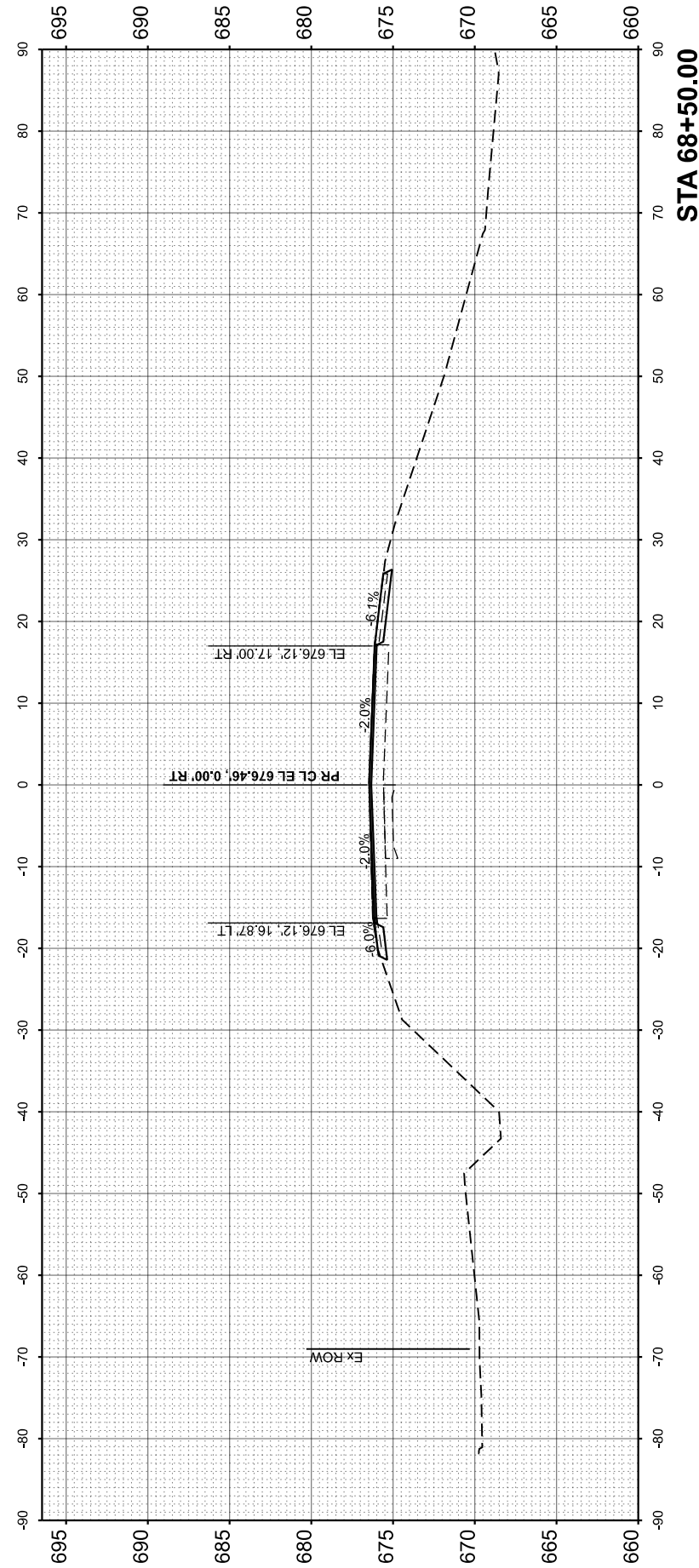
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PLOT DATE = 3/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5 SHEET 41 OF 43 SHEETS STA. 67+50.00 TO STA. 68+50.00

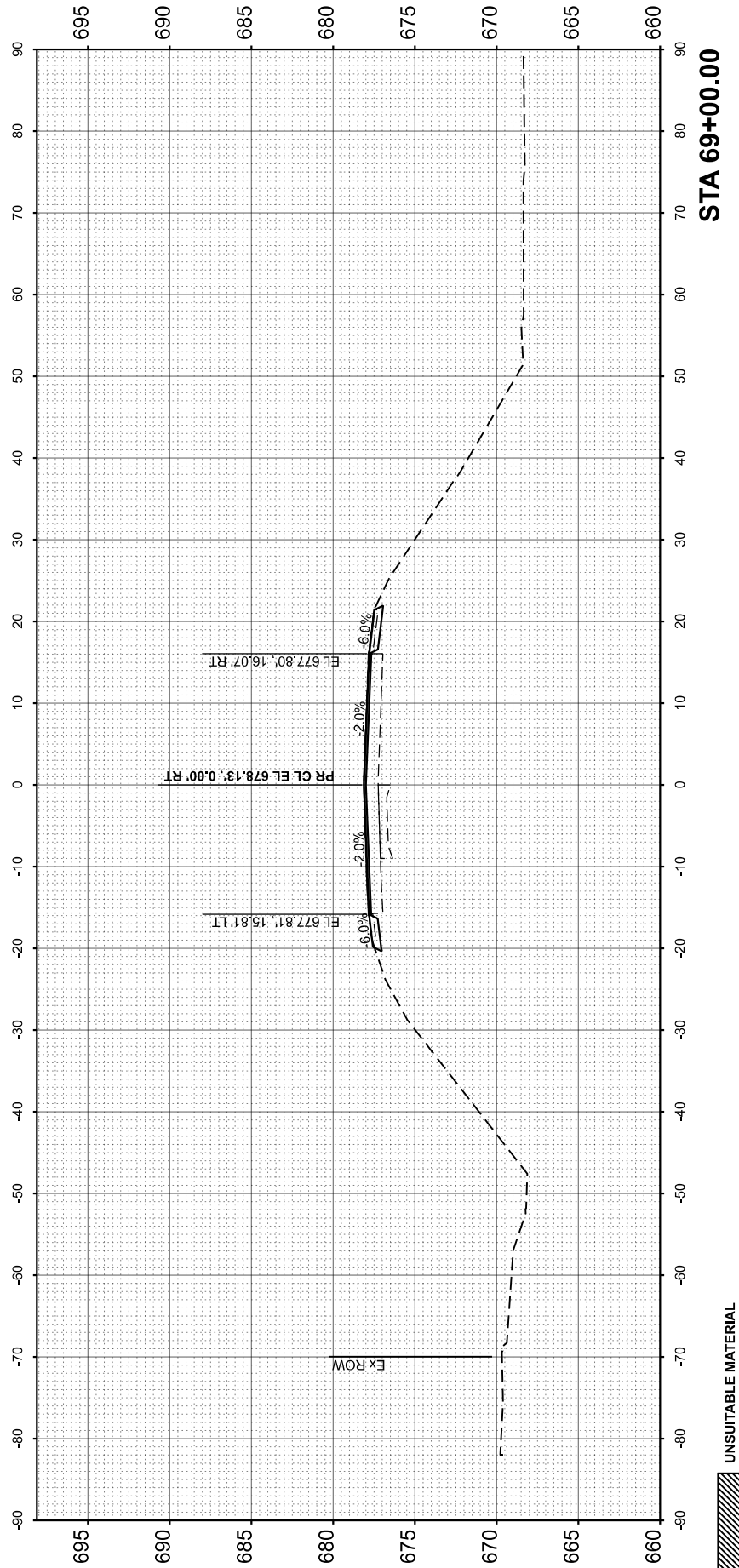
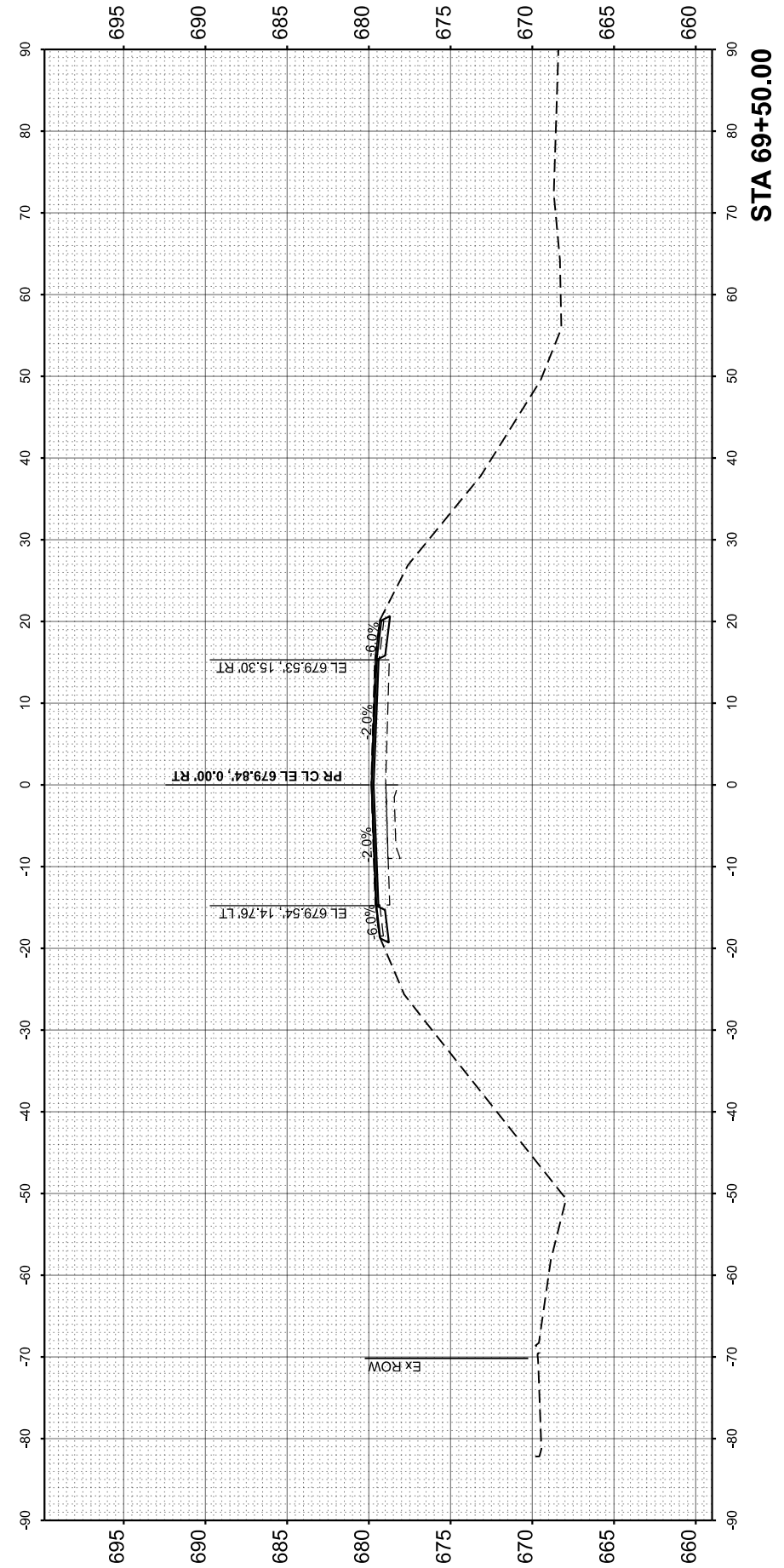
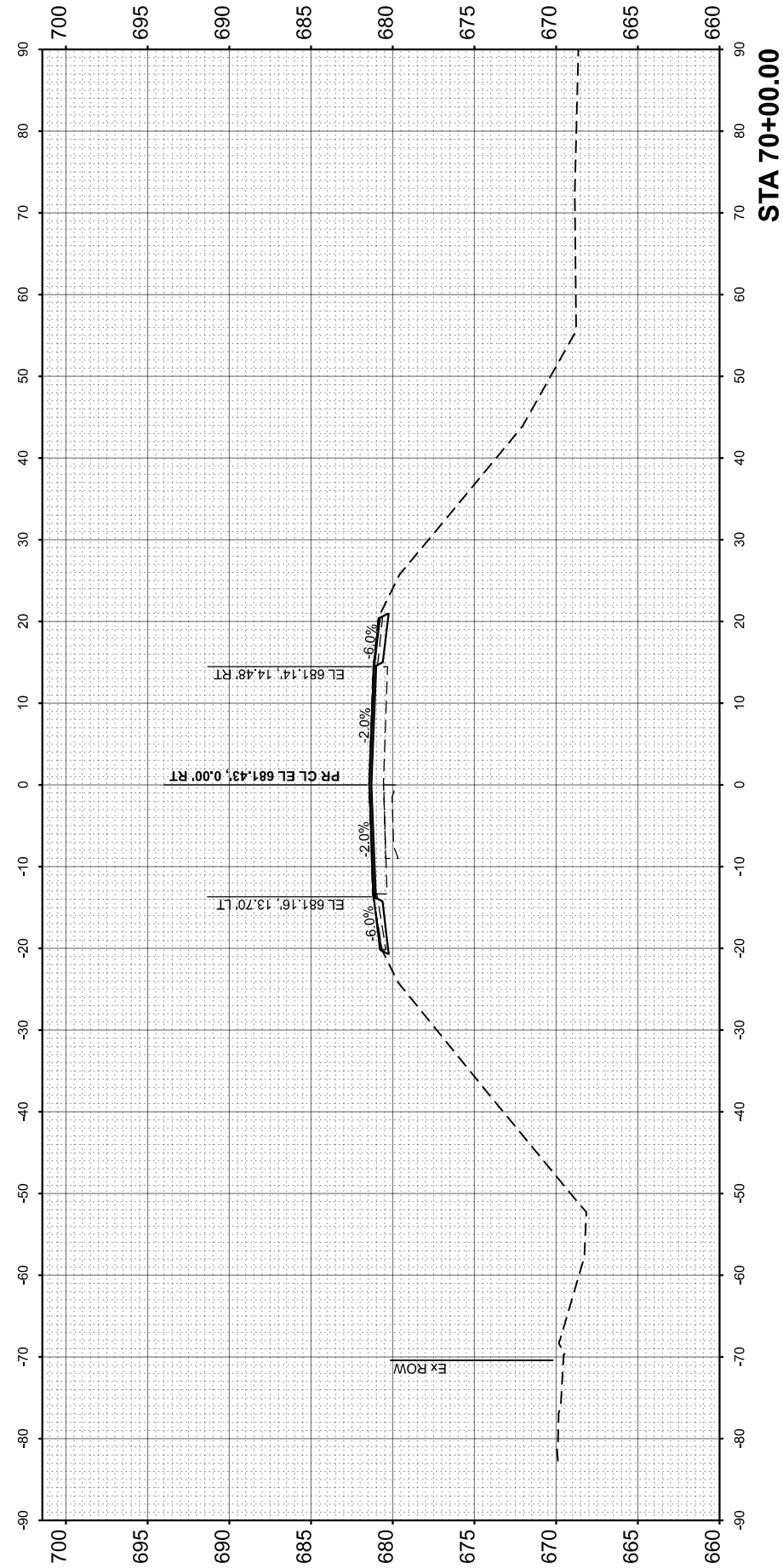
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CONTRACT NO. 87805			ILLINOIS FED. AID PROJECT	



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

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

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PLOT DATE = 3/21/2024	DATE -	REVISED -

KANKAKEE COUNTY  
HIGHWAY DEPARTMENT

CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS

SCALE: H=10 V=5 SHEET 42 OF 43 SHEETS STA. 69+00.00 TO STA. 70+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	170
				CONTRACT NO. 87805
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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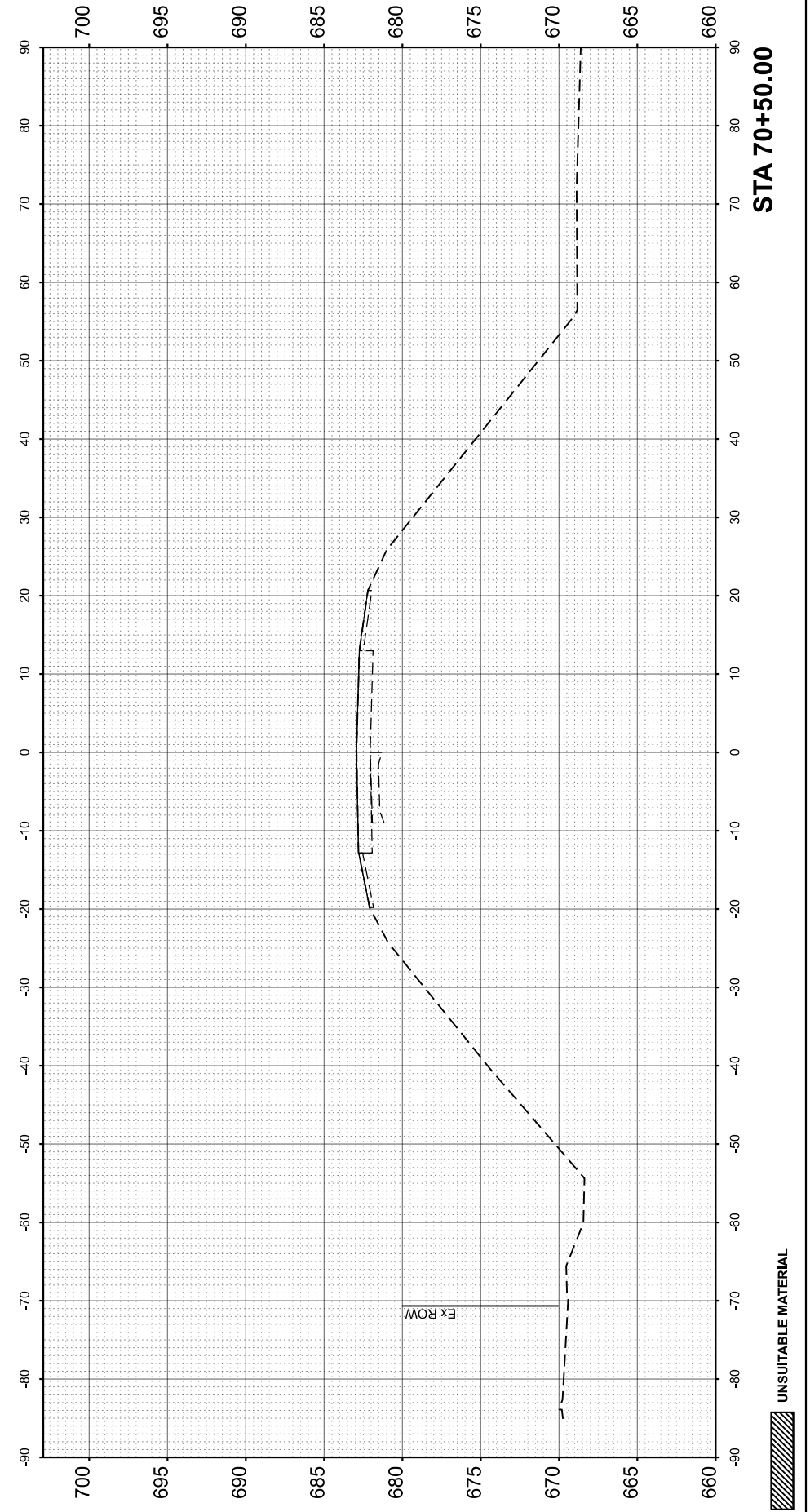
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PLOT DATE = 3/21/2024	DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**CH 9 (MANTENO - DESELM RD)  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 43    OF 43 SHEETS    STA. 70+50.00    TO STA. 70+50.00

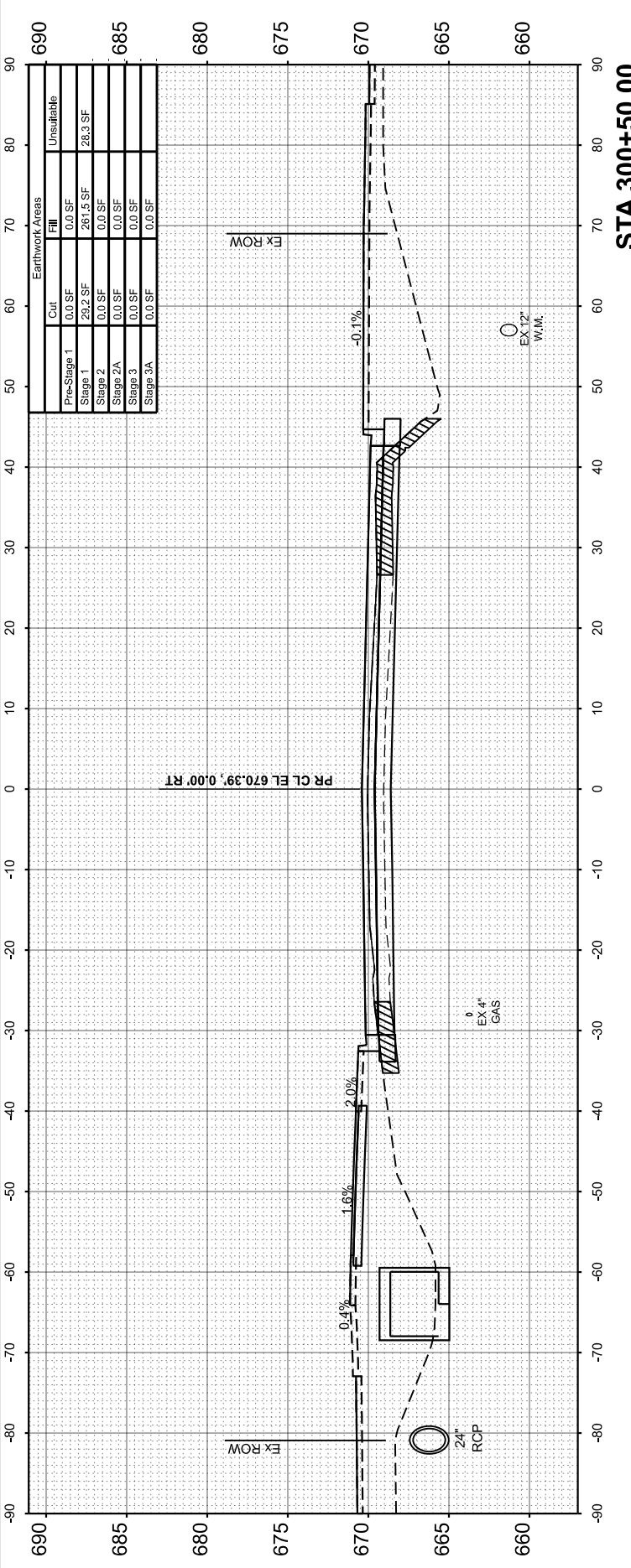
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311	08-00286-00-FP	KANKAKEE	173	171
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

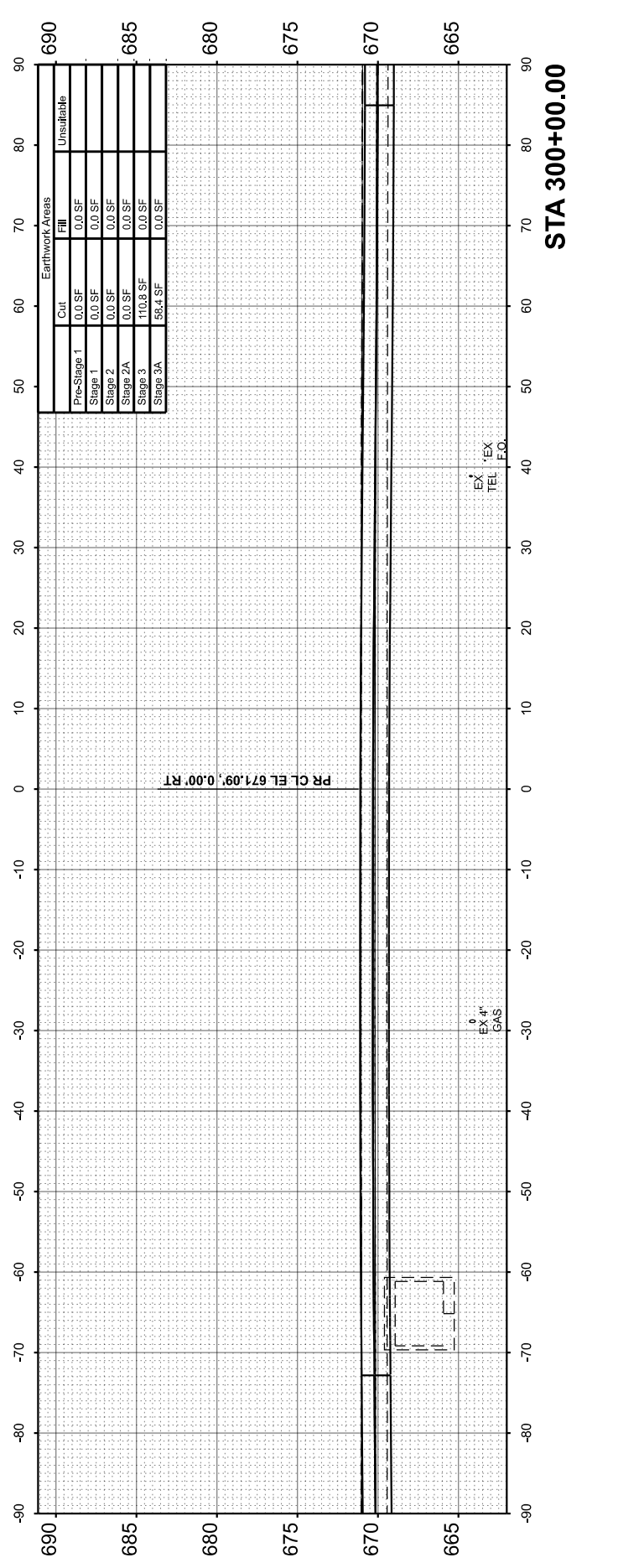
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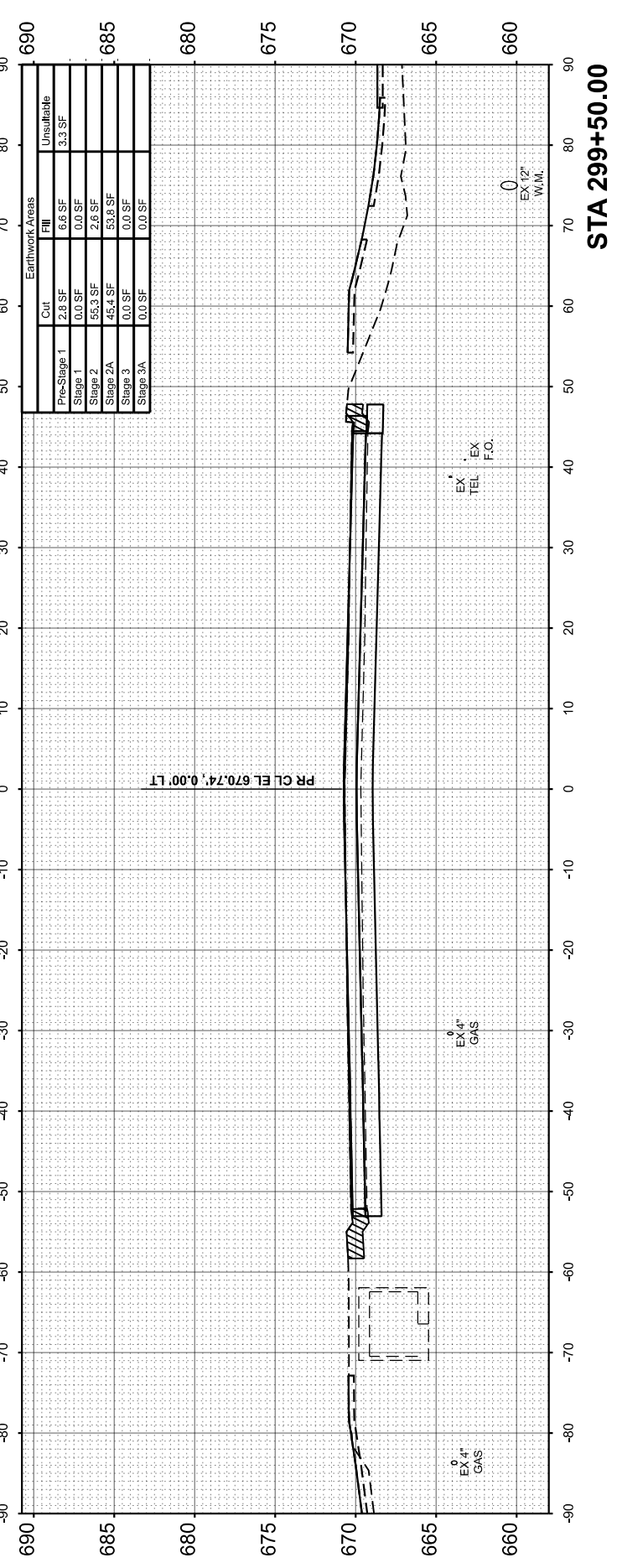
Earthwork Areas	
Cut	Unsuitable
Pre-Stage 1	0.0 SF
Stage 1	29.2 SF
Stage 2	281.5 SF
Stage 2A	0.0 SF
Stage 3	0.0 SF
Stage 3A	0.0 SF

STA 300+50.00



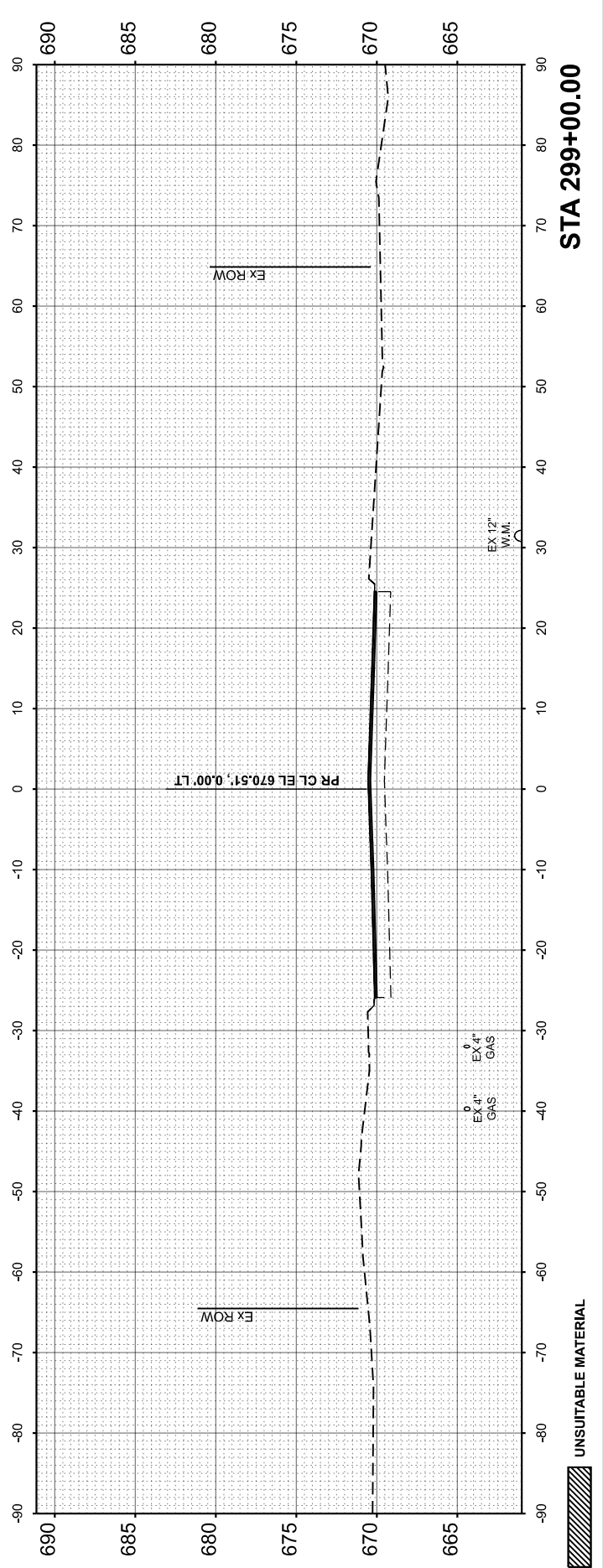
Earthwork Areas	
Cut	Unsuitable
Pre-Stage 1	0.0 SF
Stage 1	0.0 SF
Stage 2	0.0 SF
Stage 2A	0.0 SF
Stage 3	110.8 SF
Stage 3A	56.4 SF

STA 300+00.00



Earthwork Areas	
Cut	Unsuitable
Pre-Stage 1	2.8 SF
Stage 1	0.0 SF
Stage 2	55.3 SF
Stage 2A	53.8 SF
Stage 3	0.0 SF
Stage 3A	0.0 SF

STA 299+50.00



UNSUITABLE MATERIAL

STA 299+00.00



USER NAME = BDeCrane  
 PLOT SCALE = 0.16666833 / in.  
 PLOT DATE = 3/21/2024

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

KANKAKEE COUNTY  
 HIGHWAY DEPARTMENT

SPRUCE ST  
 CROSS SECTIONS

SCALE: H=10 V=5 SHEET 1 OF 2 SHEETS STA. 299+00.00 TO STA. 300+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	172
CONTRACT NO. 87805				
ILLINOIS FED. AID PROJECT				



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

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

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DATE -	3/21/2024

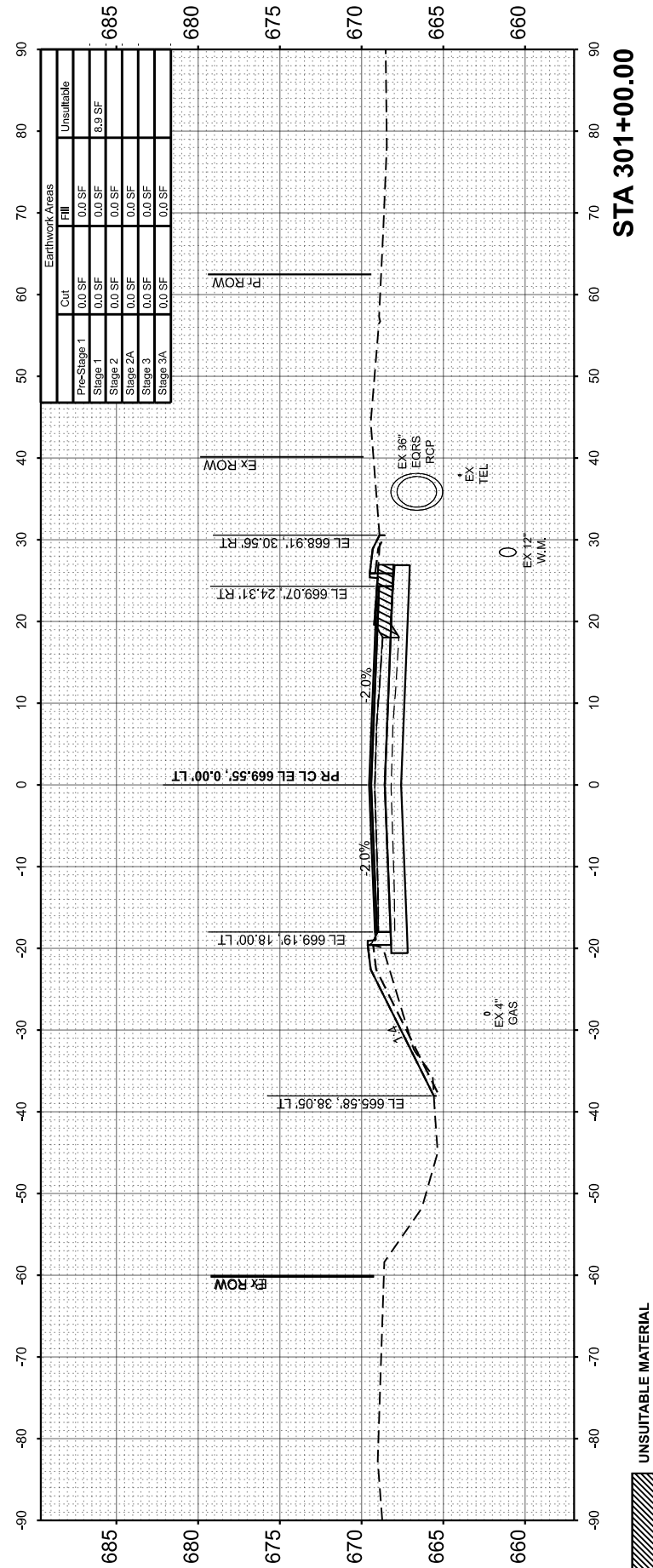
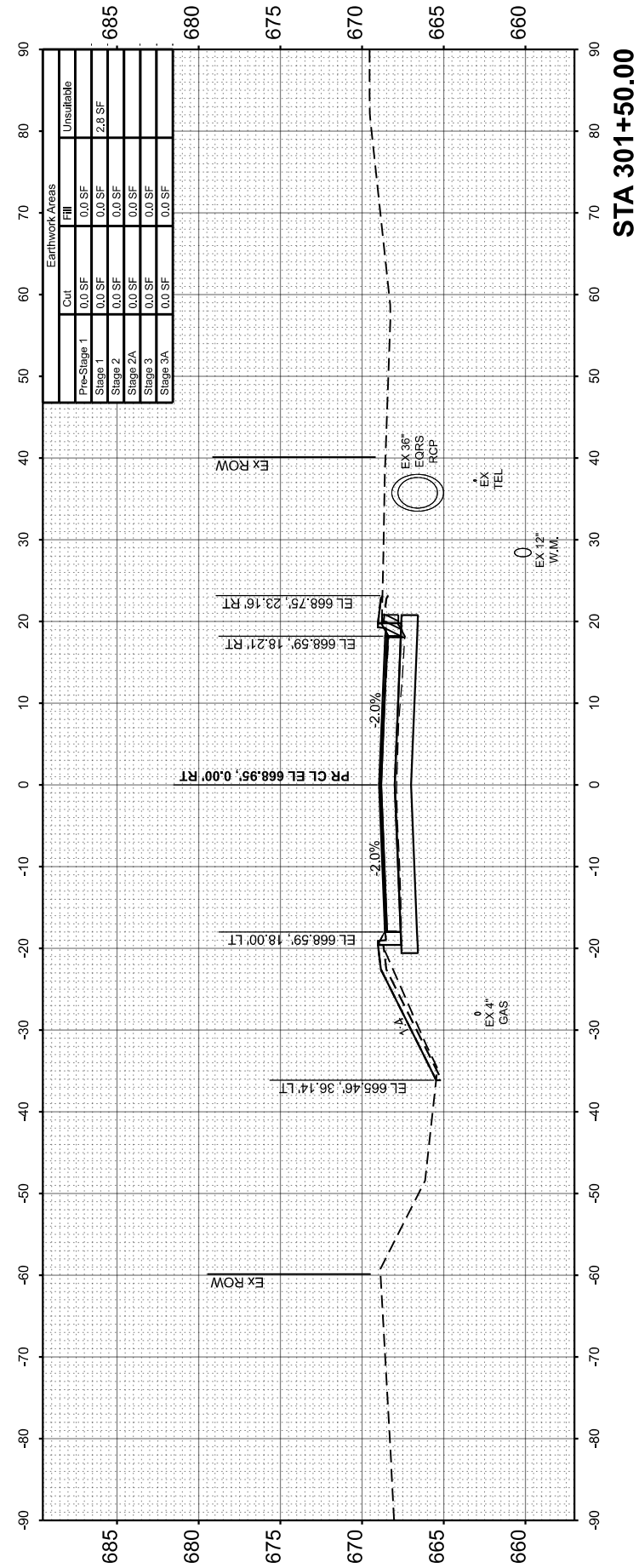
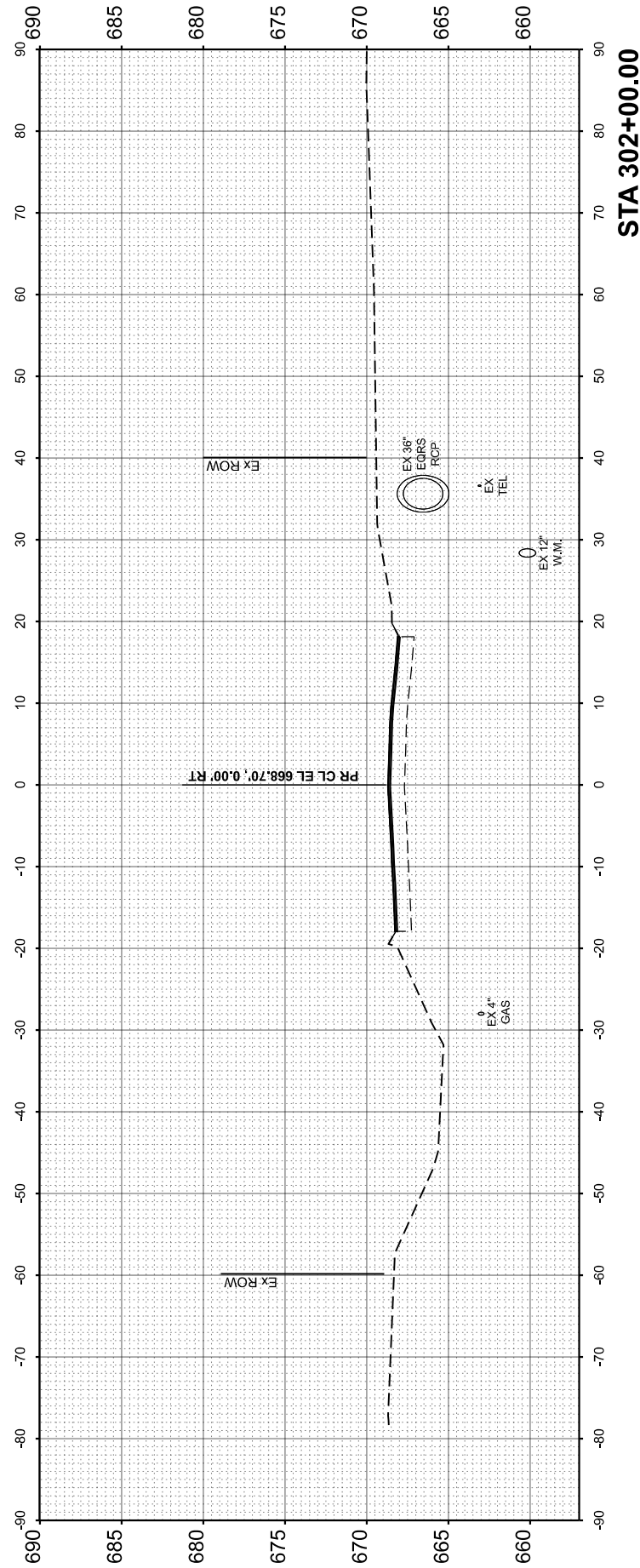
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CHECKED -	REVISED -
DATE -	REVISED -

**KANKAKEE COUNTY  
HIGHWAY DEPARTMENT**

**SPRUCE ST  
CROSS SECTIONS**

SCALE: H=10 V=5    SHEET 2 OF 2 SHEETS    STA. 301+00.00 TO STA. 302+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	08-00286-00-FP	KANKAKEE	173	173
				CONTRACT NO. 87805
ILLINOIS FED. AID PROJECT				



UNSUITABLE MATERIAL