

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	1
		ILLINOIS	CONTRACT NO.	

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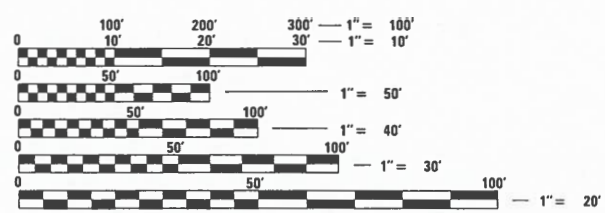
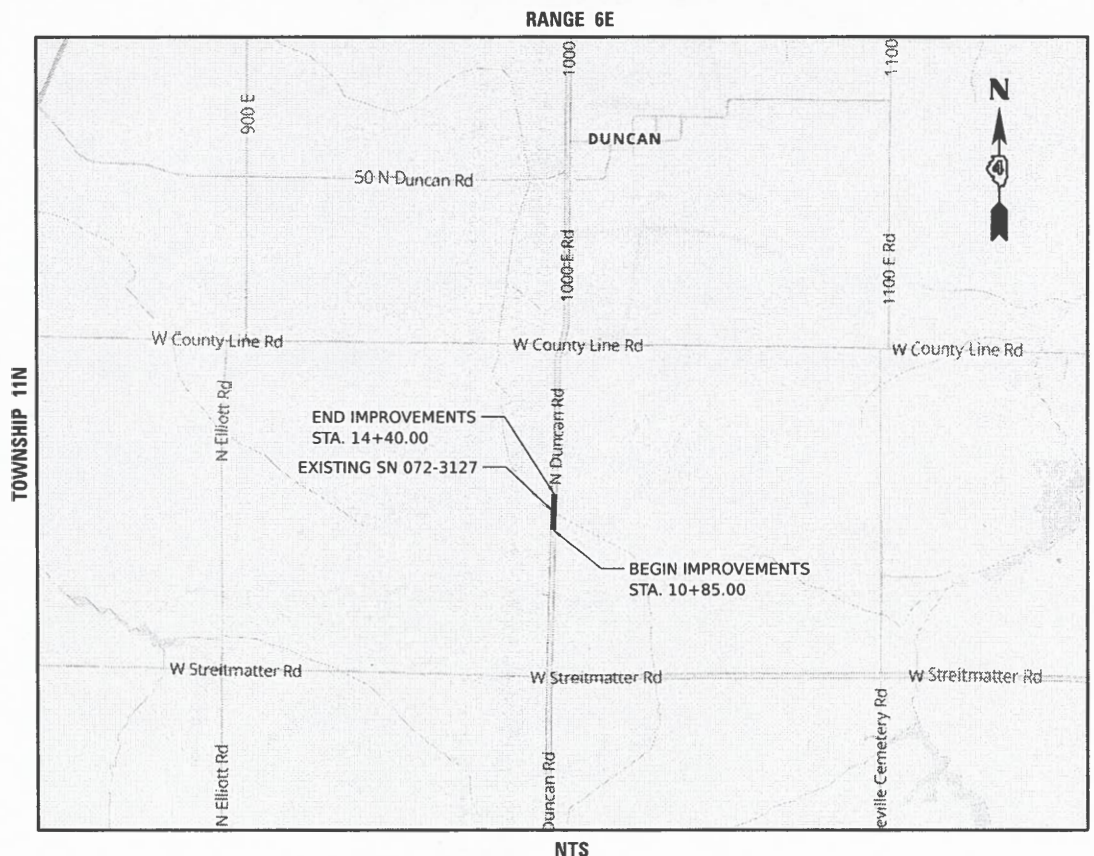
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
BRIDGE REHABILITATION**

**STP-BRIDGE
FAS 374 (CH R35 /DUNCAN ROAD)
SECTION 21-00052-00-BR
PROJECT 140Z(285)
BRIDGE REHABILITATION
PEORIA COUNTY
JOB NO. C-94-046-23**



HIGHWAY STANDARDS

- | | |
|-------------|--|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS |
| 515001-04 | NAME PLATES FOR BRIDGES |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 631032-10 | TRAFFIC BARRIER TERMINAL, TYPE 6A |
| 701006-05 | OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE |
| 701011-04 | OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY |
| 701311-03 | LANE CLOSURE 2L, 2W MOVING OPERATIONS DAY ONLY |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 725001-01 | OBJECT AND TERMINAL MARKERS |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS |
| B.L.R. 21-9 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |
| B.L.R. 22-7 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC) |



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

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

**PROJECT ENGINEER: ROBERT HARRIS
PROJECT MANAGER: BRYCE BECKSTROM, P.E.
CONTRACT NO. 89836
CATALOG NO. 036398-00D**

GROSS LENGTH = 355.00 FT. = 0.067 MILE
NET LENGTH = 258.85 FT. = 0.049 MILE

ADT (2017) = 275 SU/MU=9%
HIGHWAY CLASS: IV
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
DESIGN SPEED: 55 MPH
POSTED SPEED LIMIT: 55 MPH
DESIGN POLICY: BLR MANUAL-3R

BRYCE A. BECKSTROM
062-062864
DATE SIGNED: 10/11/23
LIC. EXP. DATE: 11/30/2023

DATE: 10/06/2023



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OF THE STATE OF ILLINOIS**

APPROVED Oct. 11 2023
Clay Becker Palmer
COUNTY ENGINEER

PASSED 10-26 2023
[Signature]
DISTRICT FOUR ENGINEER OF
LOCAL ROADS & STREETS

Releasing For
Bid Based on
Limited Review October 30 2023
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER

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GENERAL NOTES

- THE CONSTRUCTION SHALL BE GOVERNED BY THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", 2022 EDITION AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", CURRENT EDITION.
- ALL REFERENCES TO THE "DEPARTMENT" OR "ENGINEER" IN THE I.D.O.T. STANDARD SPECIFICATIONS SHALL BE CONSTRUED TO MEAN THE OWNER OR HIS AGENT AS APPROPRIATE.
- WHERE SECTION, SUB-SECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.
- ALL SECTIONS, DETAILS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
- ALL THE ELEVATIONS, STATIONS, AND OFFSETS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- ALL PAVEMENT REMOVALS SHALL BE FULL DEPTH SAW CUT AT THE LIMITS TO BE REMOVED. THE COST OF THE SAW CUT IS INCLUDED IN PAVEMENT REMOVAL.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
- EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE HAULED OFF-SITE AT CONTRACTOR'S EXPENSE.
- THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.
- APPLICATION RATES:
TEMPORARY SEEDING: 100 LB/ACRE
BITUMINOUS MATERIALS (PRIME COAT): 0.25 LB / SQ FT
- THE CONTRACTOR SHALL USE ANY ON SITE MATERIAL DEEMED SUITABLE BY THE ENGINEER BEFORE ANY NEW FILL IS HAULED TO THE SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE BEFORE BIDDING.
- COMPLETE ROAD CLOSURE SHALL BE USED FOR DURATION OF CONSTRUCTION IN ACCORDANCE WITH HIGHWAY STANDARDS B.L.R. 21-9 AND B.L.R. 22-7.

UTILITIES

FRONTIER COMMUNICATIONS
112 W. ELM STREET
SYCAMORE, IL 60178
ATTN: KALIN HINSHAW
815.895.1515
ATTN: TERRY SPURGEON
309.853.6293

IDOT DISTRICT 4 GENERAL NOTES

105.06 AVAILABILITY OF ELECTRONIC FILES

MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

105.07B TREE REMOVAL - UTILITY RELOCATION

TREE REMOVAL MAY BE NECESSARY PRIOR TO UTILITY COMPANIES BEING ABLE TO RELOCATE THEIR FACILITIES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR SHOULD COORDINATE ANY CONTRACT TREE REMOVAL ACTIVITIES WITH THE UTILITY COMPANIES TO ELIMINATE CONFLICTS AND POTENTIAL DELAYS CAUSED BY UTILITY TREE REMOVAL ACTIVITIES OR INCOMPLETE UTILITY RELOCATIONS.

204.00 ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES. THE COST ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE VARIOUS REMOVAL PAY ITEM.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.






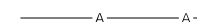







406.05 POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

SURFACE TYPE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 LB/SF
EXISTING PAVEMENT	0.08 LB/SF
FOG COAT (BETWEEN LIFTS)	0.08 LB/SF

606.14 TRANSITION PAYMENT METHOD - NEW/OLD CONSTRUCTION

TEN FEET (10 FT.) (3 M) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

LEGEND

-  CONTROL POINT
-  EXISTING TELEPHONE PEDESTAL
-  EXISTING POWER POLE
-  EXISTING TREE
-  EXISTING R.O.W. MARKER
-  OVERHEAD ELECTRIC
-  UNDERGROUND FIBER OPTIC
-  EXISTING R.O.W.
-  EXISTING GUARDRAIL
-  PROPOSED GUARDRAIL
-  VEGETATION LINE
-  EXISTING EASEMENT
-  PROPOSED R.O.W.

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

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REVIEWED: MGD 10/6/2023 12:00:00 AM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DUNCAN ROAD
GENERAL NOTES AND LEGEND**

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

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	2
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0004	0013
				ROADWAY	RURAL-BRIDGE
20200100	EARTH EXCAVATION	CU YD	290	290	
20300100	CHANNEL EXCAVATION	CU YD	755		755
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2258	2258	
25100630	EROSION CONTROL BLANKET	SQ YD	2258	2258	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	47	47	
28000305	TEMPORARY DITCH CHECKS	FOOT	42	42	
28000400	PERIMETER EROSION BARRIER	FOOT	573	573	
28100109	STONE RIPRAP, CLASS A5	SQ YD	1246		1246
28200200	FILTER FABRIC	SQ YD	1246		1246
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	81	81	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	262	262	
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	775	498	277
40603230	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	26	26	
40604150	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	126	77	49
44000100	PAVEMENT REMOVAL	SQ YD	135	135	



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DUNCAN ROAD SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET	OF SHEETS	STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	3
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0004	0013
				ROADWAY	RURAL-BRIDGE
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	335	335	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
50102400	CONCRETE REMOVAL	CU YD	5.4		5.4
50104650	SLOPE WALL REMOVAL	SQ YD	996		996
50300225	CONCRETE STRUCTURES	CU YD	6.5		6.5
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	3366		3366
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1140		1140
50901050	STEEL RAILING, TYPE SM	FOOT	192		192
51500100	NAME PLATES	EACH	1		1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	385		385
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	1031		1031
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	198	198	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5	5	



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DUNCAN ROAD SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET OF SHEETS	STA. TO STA.	

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	4
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0004	0013
				ROADWAY	RURAL-BRIDGE
67100100	MOBILIZATION	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	36	36	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	12	12	
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1420	1420	
78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1420	1420	
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	585	585	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
XX006343	SEEDING (COMPLETE)	SQ YD	2258	2258	
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	81	81	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	56		56
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	

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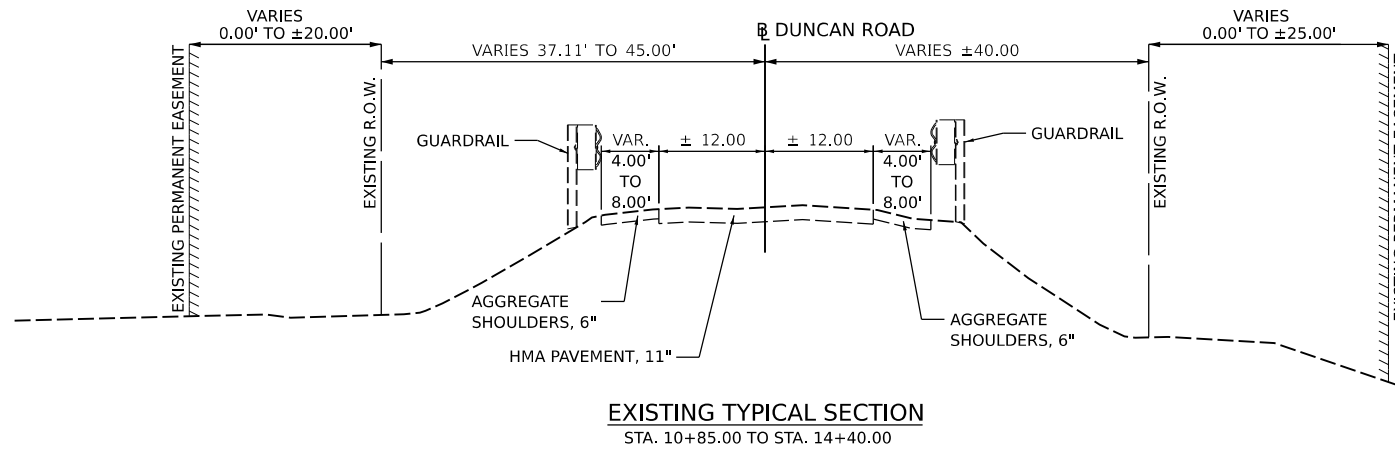
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

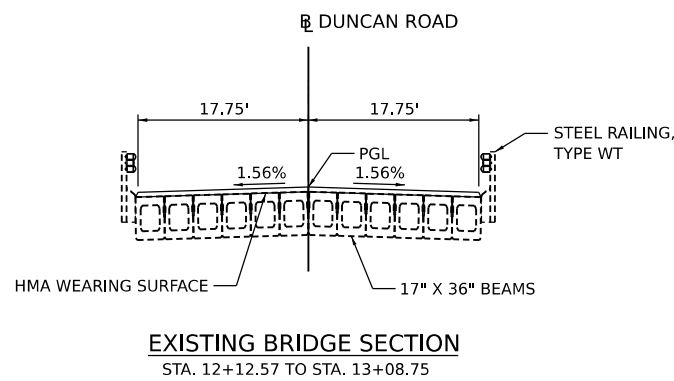
**DUNCAN ROAD
 SUMMARY OF QUANTITIES**

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22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				



NOTE:
 PAVEMENT AND SHOULDER DEPTHS ARE ASSUMED BASED ON AS-BUILT PLANS.



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

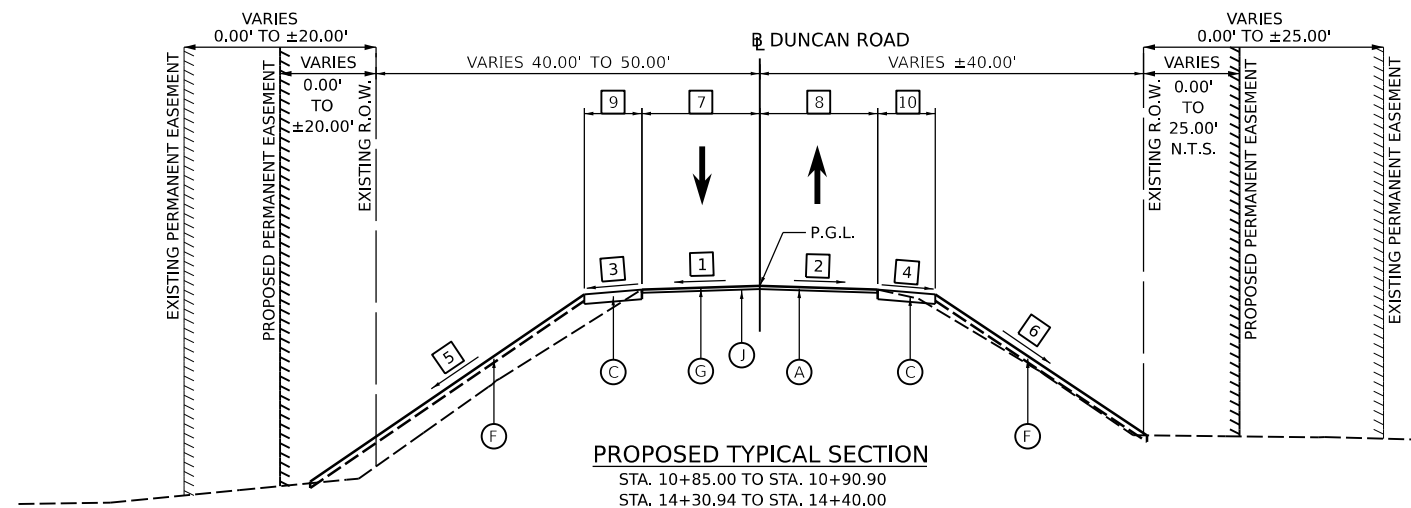
**DUNCAN ROAD
 EXISTING TYPICAL SECTIONS**

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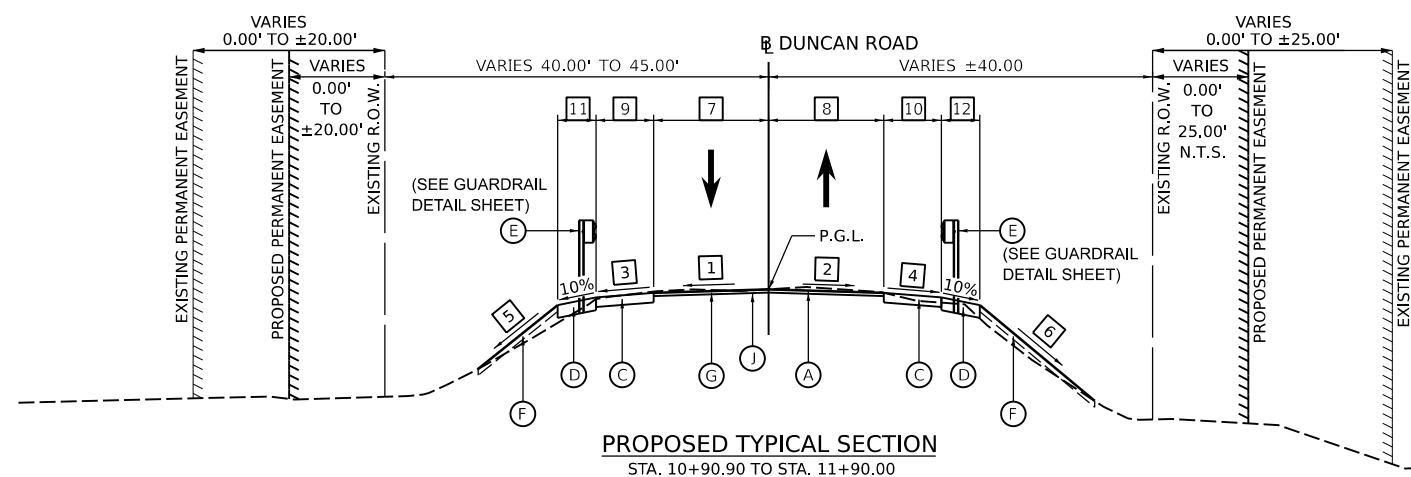
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374	21-00052-00-BR	PEORIA	38	6
22L0159		CONTRACT NO. 89836		
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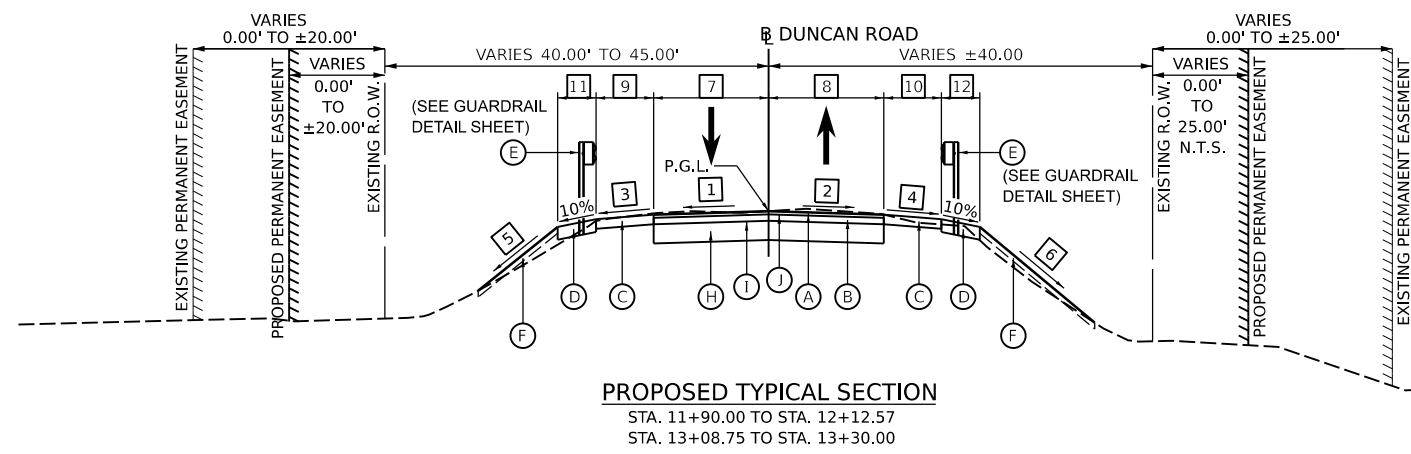
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PROPOSED TYPICAL SECTION
 STA. 10+85.00 TO STA. 10+90.90
 STA. 14+30.94 TO STA. 14+40.00

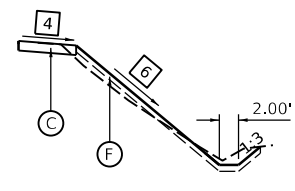


PROPOSED TYPICAL SECTION
 STA. 10+90.90 TO STA. 11+90.00
 STA. 13+30.00 TO STA. 14+30.94

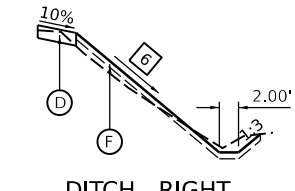


PROPOSED TYPICAL SECTION
 STA. 11+90.00 TO STA. 12+12.57
 STA. 13+08.75 TO STA. 13+30.00

BRIDGE OMISSION
 STA. 12+12.57 TO STA. 13+08.75



DITCH - RIGHT
 STA. 10+85.00 TO STA. 10+90.90



DITCH - RIGHT
 STA. 10+90.90 TO STA. 12+00.00

HMA MIXTURE REQUIREMENTS		
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:		
LOCATION:	DUNCAN ROAD	
MIXTURE USE(S):	POLYMERIZED HMA SURFACE COURSE	POLYMERIZED HMA BINDER COURSE
PG:	SBS 76-28	SBS 76-28
DESIGN AIR VOIDS:	4.0% @ N-50	4.0% @ N-50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICITION AGGREGATE:	MIXTURE C	N/A
MIXTURE WEIGHT:	112 LB/SQ YD/IN	112 LB/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A

LEGEND

- (A) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
- (B) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
- (C) AGGREGATE SHOULDERS, TYPE A, 6"
- (D) GUARDRAIL AGGREGATE EROSION CONTROL, 8"
- (E) GUARDRAIL (SEE DETAIL SHEET)
- (F) TOPSOIL FURNISH AND PLACE, 4" SEEDING (COMPLETE)
- (G) HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- (H) SUBBASE GRANULAR MATERIAL, TYPE A, 12"
- (I) BITUMINOUS MATERIALS (PRIME COAT)
- (J) POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)

STRUCTURAL DESIGN TRAFFIC:	YEAR <u>2017</u>	ADT <u>275</u>
	PV = <u>91%</u>	SU = _____
		MU = <u>9%</u>
ROAD/STREET CLASSIFICATION:	CLASS <u>IV</u>	
PERCENTAGE OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE	P = <u>50%</u> S = <u>50%</u> M = <u>50%</u>	
TRAFFIC FACTOR:	ACTUAL TF = <u>0.02</u>	AC TYPE = <u>N/A</u>
	MINIMUM TF = <u>N/A</u>	
PG GRADE: Binder=	SBS 76-28	Surface = SBS 76-28
SUBGRADE SUPPORT RATING:	SSR = <u>POOR</u> (STA. <u>10+85.00</u> TO <u>14+40.00</u>)	
	SSR = _____ (STA. _____ TO _____)	

- 6** SIDE SLOPE - RIGHT
 STA. 10+85.00 TO STA. 11+00.00 = TRANSITION FROM EXISTING TO 1:2.5
 STA. 11+00.00 TO STA. 11+75.00 = 1:2.5
 STA. 11+75.00 TO STA. 12+00.00 = TRANSITION FROM 1:2.5 TO 1:2
 STA. 12+00.00 TO STA. 13+00.00 = 1:2
 STA. 13+00.00 TO STA. 13+50.00 = TRANSITION FROM 1:2 TO 1:2.5
 STA. 13+50.00 TO STA. 14+00.00 = TRANSITION FROM 1:2.5 TO 1:3
 STA. 14+00.00 TO STA. 14+40.00 = 1:3
- 7** ROADWAY WIDTH - LEFT
 STA. 10+85.00 TO STA. 11+00.00 = TRANSITION FROM 12.19' TO 12.00'
 STA. 11+00.00 TO STA. 14+10.00 = 12.00'
 STA. 14+10.00 TO STA. 14+40.00 = TRANSITION FROM 12.00' TO 12.34'
- 8** ROADWAY WIDTH - RIGHT
 STA. 10+85.00 TO STA. 11+00.00 = TRANSITION FROM 12.11' TO 12.00'
 STA. 11+00.00 TO STA. 14+10.00 = 12.00'
 STA. 14+10.00 TO STA. 14+40.00 = TRANSITION FROM 12.00' TO 12.38'
- 9** SHOULDER WIDTH - LEFT
 STA. 10+85.00 TO STA. 10+95.00 = TRANSITION FROM 0.00' TO 6.00'
 STA. 10+95.00 TO STA. 14+30.94 = 6.00'
 STA. 14+30.94 TO STA. 14+40.00 = TRANSITION FROM 6.00' TO 0.00'
- 10** SHOULDER WIDTH - RIGHT
 STA. 10+85.00 TO STA. 10+90.90 = TRANSITION FROM 0.00' TO 6.00'
 STA. 10+90.90 TO STA. 14+30.00 = 6.00'
 STA. 14+30.00 TO STA. 14+40.00 = TRANSITION FROM 6.00' TO 0.00'
- 11** GUARDRAIL AGGREGATE WIDTH - LEFT
 STA. 10+85.00 TO STA. 11+15.75 = 0.00'
 STA. 11+15.75 TO STA. 11+39.74 = TRANSITION FROM 0.00' TO 4.00'
 STA. 11+39.74 TO STA. 14+08.34 = 4.00'
 STA. 14+08.34 TO STA. 14+30.94 = TRANSITION FROM 4.00' TO 0.00'
 STA. 14+30.94 TO STA. 14+40.00 = 0.00'
- 12** GUARDRAIL AGGREGATE WIDTH - RIGHT
 STA. 10+85.00 TO STA. 10+90.90 = 0.00'
 STA. 10+90.90 TO STA. 11+14.88 = TRANSITION FROM 0.00' TO 4.00'
 STA. 11+14.88 TO STA. 13+82.77 = 4.00'
 STA. 13+82.77 TO STA. 14+06.77 = TRANSITION FROM 4.00' TO 0.00'
 STA. 14+06.77 TO STA. 14+40.00 = 0.00'
- 1** ROADWAY CROSS SLOPE - LEFT
 STA. 10+85.00 TO STA. 11+61.00 = MATCH EXISTING
 STA. 11+61.00 TO STA. 12+12.00 = TRANSITION FROM -2.84% TO -1.56%
 STA. 12+12.00 TO STA. 13+09.00 = -1.56%
 STA. 13+09.00 TO STA. 13+69.00 = TRANSITION FROM -1.56% TO -3.54%
 STA. 13+69.00 TO STA. 14+40.00 = MATCH EXISTING
- 2** ROADWAY CROSS SLOPE - RIGHT
 STA. 10+85.00 TO STA. 11+61.00 = MATCH EXISTING
 STA. 11+61.00 TO STA. 12+04.00 = TRANSITION FROM -2.55% TO -1.56%
 STA. 12+04.00 TO STA. 13+09.00 = -1.56%
 STA. 13+09.00 TO STA. 13+69.00 = TRANSITION FROM -1.56% TO -2.98%
 STA. 13+69.00 TO STA. 14+40.00 = MATCH EXISTING
- 3** SHOULDER CROSS SLOPE - LEFT
 STA. 10+85.00 TO STA. 11+60.00 = -6.00%
 STA. 11+60.00 TO STA. 12+20.00 = TRANSITION FROM -6.00% TO -1.56%
 STA. 12+20.00 TO STA. 13+21.00 = -1.56%
 STA. 13+21.00 TO STA. 13+81.00 = TRANSITION FROM -1.56% TO -6.00%
 STA. 13+81.00 TO STA. 14+40.00 = -6.00%
- 4** SHOULDER CROSS SLOPE - RIGHT
 STA. 10+85.00 TO STA. 11+40.00 = -6.00%
 STA. 11+40.00 TO STA. 12+00.00 = TRANSITION FROM -6.00% TO -1.56%
 STA. 12+00.00 TO STA. 13+00.00 = -1.56%
 STA. 13+00.00 TO STA. 13+60.00 = TRANSITION FROM -1.56% TO -6.00%
 STA. 13+60.00 TO STA. 14+40.00 = -6.00%
- 5** SIDE SLOPE - LEFT
 STA. 10+85.00 TO STA. 11+70.00 = 1:3
 STA. 11+70.00 TO STA. 12+25.00 = TRANSITION FROM 1:3 TO 1:2
 STA. 12+25.00 TO STA. 13+25.00 = 1:2
 STA. 13+25.00 TO STA. 13+50.00 = TRANSITION FROM 1:2 TO 1:2.5
 STA. 13+50.00 TO STA. 14+00.00 = 1:2.5
 STA. 14+00.00 TO STA. 14+40.00 = TRANSITION FROM 1:2.5 TO 1:3

HMA PAVEMENT AND SHOULDER SCHEDULE							
LOCATION		31100100	40600275	40600295	40603230	40604150	48100500
		SUBBASE GRANULAR MATERIAL, TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	AGGREGATE SHOULDERS, TYPE A 6"
BEGIN STATION	END STATION	TON	POUND	POUND	TON	TON	SQ YD
DUNCAN ROAD							
10+85.00	12+12.57	42	135	245	13	38	166
13+08.75	14+40.00	39	127	253	13	39	169
FROM STRUCTURAL PLANS				277		49	
TOTAL		81	262	775	26	126	335

REMOVAL SCHEDULE				
LOCATION		44000100	63200310	X4401198
		PAVEMENT REMOVAL	GUARDRAIL REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
BEGIN STATION	END STATION	SQ YD	FOOT	SQ YD
DUNCAN ROAD				
10+85.00	12+12.57	69	99	282
13+08.75	14+40.00	66	99	303
TOTAL		135	198	585

TEMPORARY DITCH CHECK SCHEDULE		
LOCATION		28000305
		TEMPORARY DITCH CHECKS
STATION	OFFSET	FOOT
DUNCAN ROAD		
11+00.85	43.21' RT	7
11+16.63	46.82' RT	7
11+32.69	48.72' RT	7
11+48.35	50.47' RT	7
11+64.19	52.47' RT	7
11+76.12	54.63' RT	7
TOTAL		42

GUARDRAIL SCHEDULE							
LOCATION			63100087	63100167	72501000	78200005	Z0001002
			TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT EACH	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	GUARDRAIL AGGREGATE EROSION CONTROL TON
BEGIN STATION	END STATION	SIDE	EACH	EACH	EACH	EACH	TON
DUNCAN ROAD							
11+24.90	11+99.96	RT	1	1	1	4	20
11+49.75	12+24.97	LT	1	1	1	4	20
12+95.72	13+70.77	RT	1	1	1	4	21
13+21.11	13+96.34	LT	1	1	1	4	21
TOTAL			4	4	4	16	81

TOPSOIL AND SEEDING SCHEDULE						
LOCATION		21101615	25100630	28000250	28000400	XX006343
		TOPSOIL FURNISH AND PLACE, 4"	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	SEEDING (COMPLETE)
BEGIN STATION	END STATION	SQ YD	SQ YD	POUND	FOOT	SQ YD
DUNCAN ROAD						
10+85.00	12+12.57	1,092	1,092	23	208	1,092
13+08.75	14+40.00	1,166	1,166	24	365	1,166
TOTAL		2,258	2,258	47	573	2,258

PAVEMENT MARKING SCHEDULE			
LOCATION		78009004	78011025
		MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	GROOVING FOR RECESSED PAVEMENT MARKING 5"
BEGIN STATION	END STATION	FOOT	FOOT
DUNCAN ROAD			
10+85.00	14+40.00	1,420	1,420
TOTAL		1,420	1,420

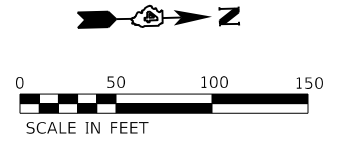
EARTHWORK SUMMARY					
LOCATION		20200100	20300100		
		EARTH EXCAVATION	CHANNEL EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR 25% SHRINKAGE	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
BEGIN STATION	END STATION	CU YD	CU YD	CU YD	CU YD
DUNCAN RD					
10+85.00	12+12.57	215		161	-4
13+08.75	14+40.00	75		56	-54
BR SPOON RIVER			755		755
TOTAL		290	755	217	697

Final	USER NAME = ander00846	DESIGNED - RDH	REVISED -
		DRAWN - RLA	REVISED -
	PLOT SCALE = 0.16666667 / in.	CHECKED - MGD	REVISED -
	PLOT DATE = 12/6/2023	DATE - 10/6/2023 12:00:00	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

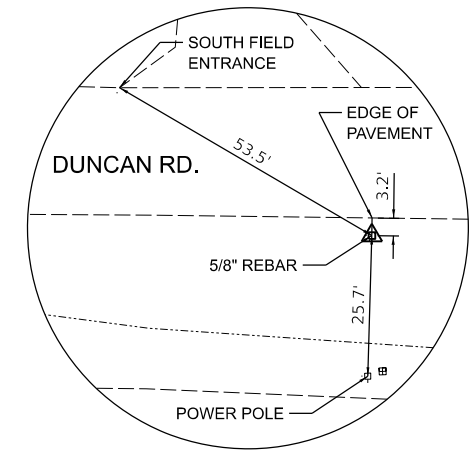
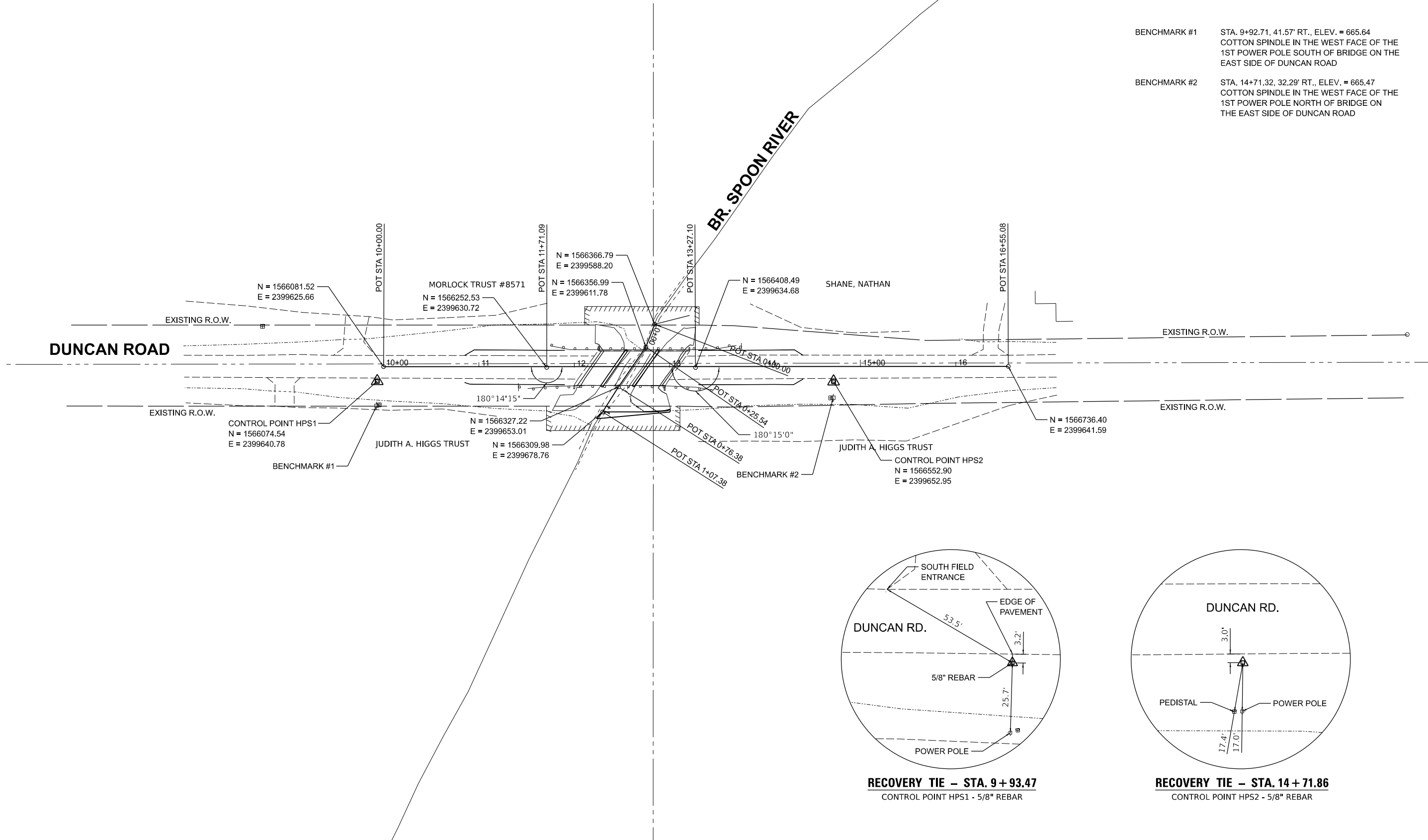
**DUNCAN ROAD
 SCHEDULE OF QUANTITIES**

SCALE: N/A	SHEET	OF	SHEETS	STA.	TO STA.	FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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							22L0159			CONTRACT NO. 89836
								ILLINOIS		FED. AID PROJECT

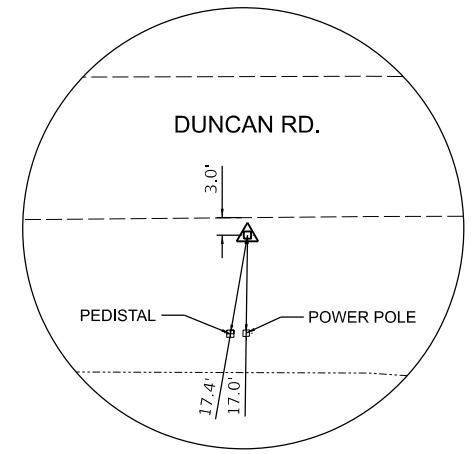


BENCHMARK #1 STA. 9+92.71, 41.57' RT., ELEV. = 665.64
COTTON SPINDLE IN THE WEST FACE OF THE
1ST POWER POLE SOUTH OF BRIDGE ON THE
EAST SIDE OF DUNCAN ROAD

BENCHMARK #2 STA. 14+71.32, 32.29' RT., ELEV. = 665.47
COTTON SPINDLE IN THE WEST FACE OF THE
1ST POWER POLE NORTH OF BRIDGE ON THE
EAST SIDE OF DUNCAN ROAD



RECOVERY TIE - STA. 9+93.47
CONTROL POINT HPS1 - 5/8" REBAR



RECOVERY TIE - STA. 14+71.86
CONTROL POINT HPS2 - 5/8" REBAR

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DESIGNED RDH 4/25/2023 12:00:00 AM
 DRAWN RLA 4/25/2023 12:00:00 AM
 REVIEWED MGD 10/6/2023 12:00:00 AM

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Final	USER NAME = ander00846	DESIGNED - RDH	REVISED -
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	PLOT DATE = 12/6/2023	DATE - 10/6/2023 12:00:00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DUNCAN ROAD ALIGNMENT, BENCHMARKS, AND TIES			
SCALE: 1" = 50'	SHEET	OF SHEETS	STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	9
2210159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				

① **Duncan Rd**

② **NORTH** M3-1 24"x12" ③ **SOUTH** M3-3 24"x12"

④ **DETOUR** M4-8 24"x18" ⑤ **END DETOUR** M4-8a 24"x18"

⑥ **←** M5-1L 21"x15" ⑦ **→** M5-1R 21"x15"

⑧ **↑** M6-3 21"x15"

⑨ **ROAD CLOSED** R11-2 48"x30"

⑩ **BRIDGE OUT 1 MILES AHEAD LOCAL TRAFFIC ONLY** R11-3b 60"x30"

DETOUR → M4-10R 48"x18"

⑪ **BRIDGE OUT 1 MILES AHEAD LOCAL TRAFFIC ONLY** R11-3b 60"x30"

← DETOUR M4-10L 48"x18"

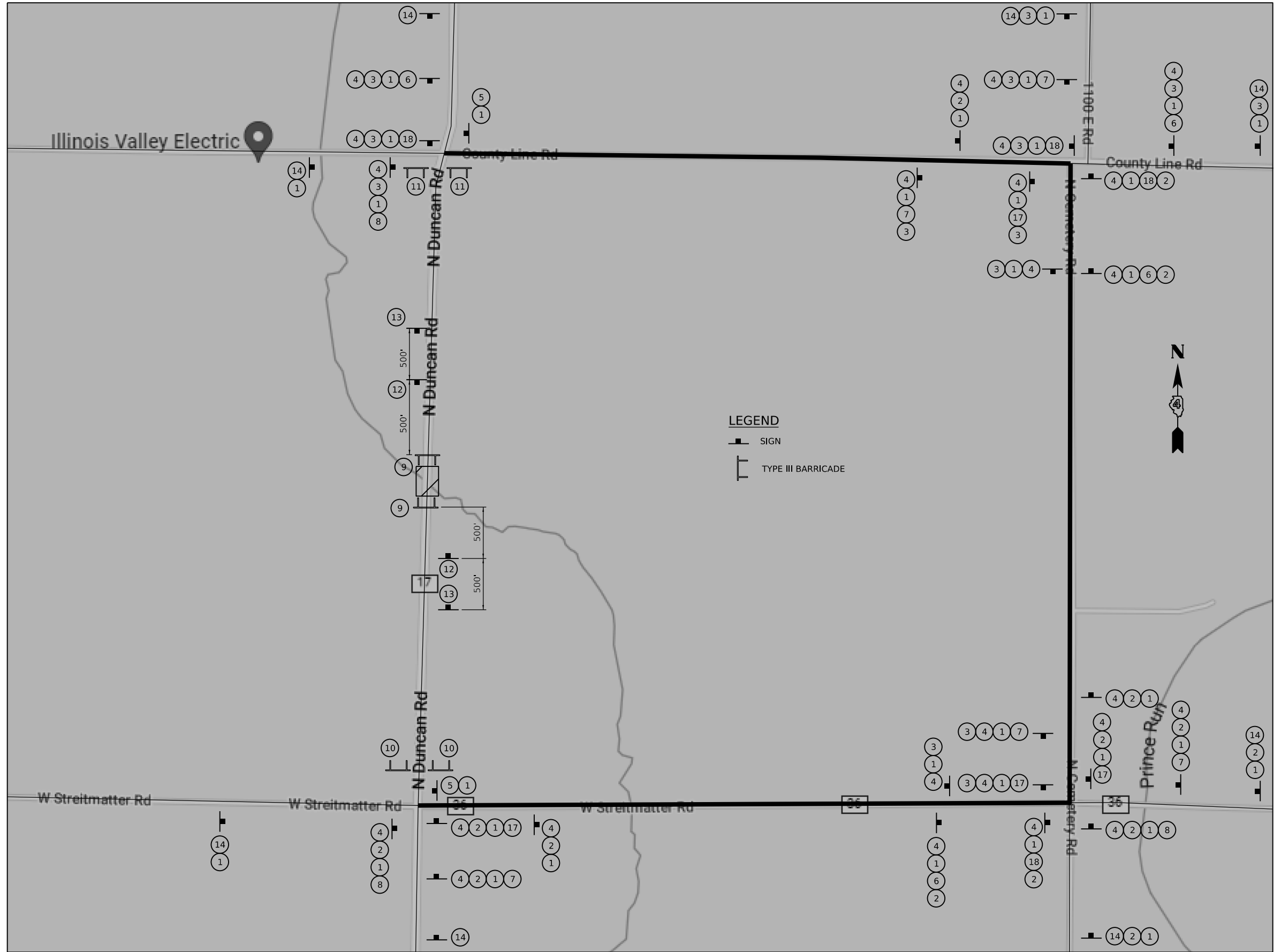
⑫ **ROAD CLOSED 500 FT** W20-3 36"x36"

⑬ **ROAD CLOSED AHEAD** W20-3 36"x36"

⑭ **DETOUR AHEAD** W20-2 36"x36"

⑰ **→** M6-1R 21"x15"

⑱ **←** M6-1L 21"x15"



NOTE:
SIGN COLORS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD.

DESIGNED: ROH 4/25/2023 12:00:00 AM
 DRAWN: RLA 4/25/2023 12:00:00 AM
 REVIEWED: MSD 10/6/2023 12:00:00 AM

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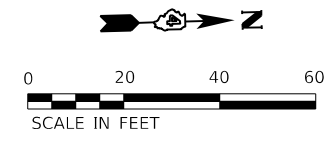
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	DESIGNED	RDH	REVISED
	DRAWN	RLA	REVISED
	CHECKED	MGD	REVISED
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	DATE	10/6/2023 12:00:00 AM	AMISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

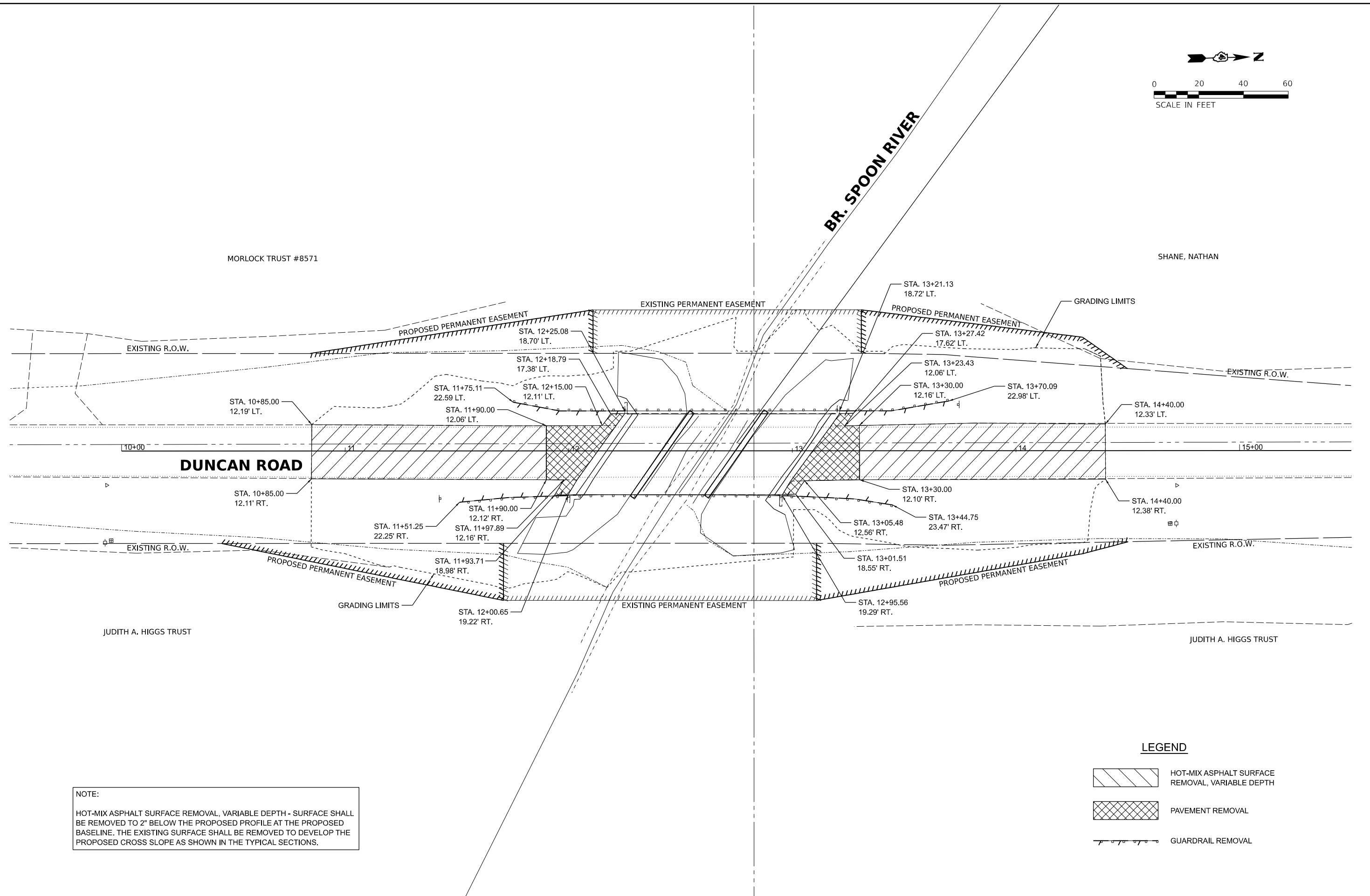
**DUNCAN ROAD
 DETOUR PLAN**

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

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	10
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				






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NOTE:
 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH - SURFACE SHALL BE REMOVED TO 2" BELOW THE PROPOSED PROFILE AT THE PROPOSED BASELINE. THE EXISTING SURFACE SHALL BE REMOVED TO DEVELOP THE PROPOSED CROSS SLOPE AS SHOWN IN THE TYPICAL SECTIONS.

LEGEND

	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
	PAVEMENT REMOVAL
	GUARDRAIL REMOVAL

DESIGNED RDH 4/25/2023 12:00:00 AM
 DRAWN RLA 4/25/2023 12:00:00 AM
 REVIEWED MGD 10/6/2023 12:00:00 AM

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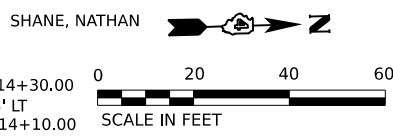
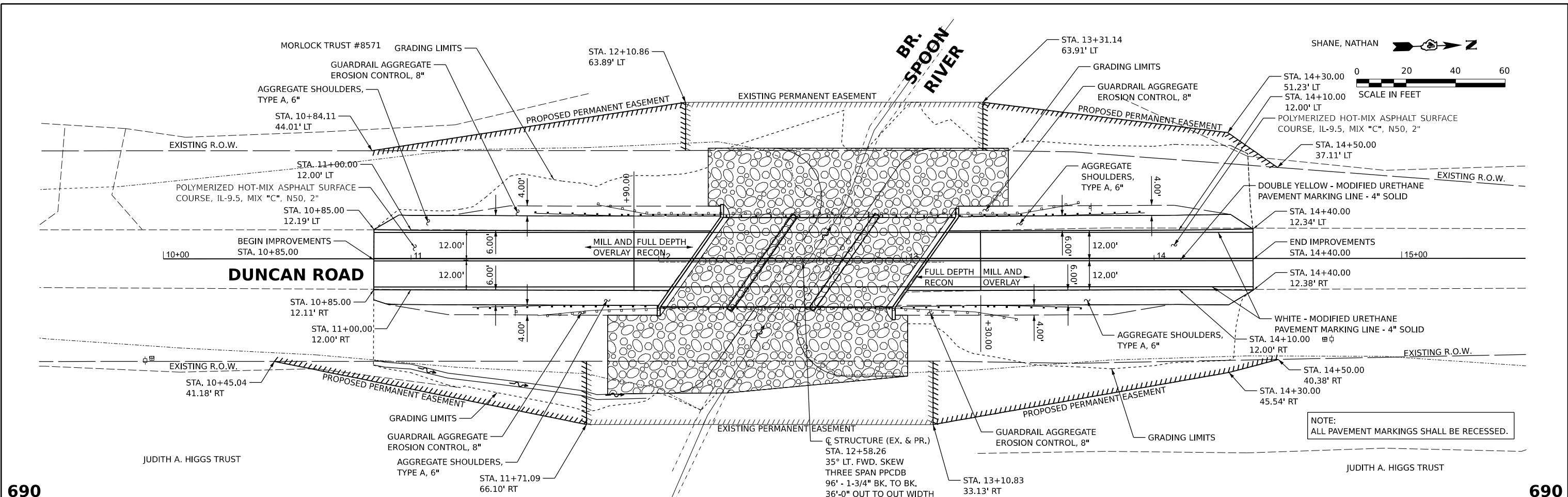
Final	USER NAME = andr00846	DESIGNED - RDH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DUNCAN ROAD REMOVAL PLAN	FAS RTE. 374	SECTION 21-00052-00-BR	COUNTY PEORIA	TOTAL SHEETS 38	SHEET NO. 11
	PLOT SCALE = 0.16666667' / in.	CHECKED - MGD	REVISED -			SCALE: 1" = 20'	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 89836	
	PLOT DATE = 12/6/2023	DATE - 10/6/2023 12:00:00	REVISED -							

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
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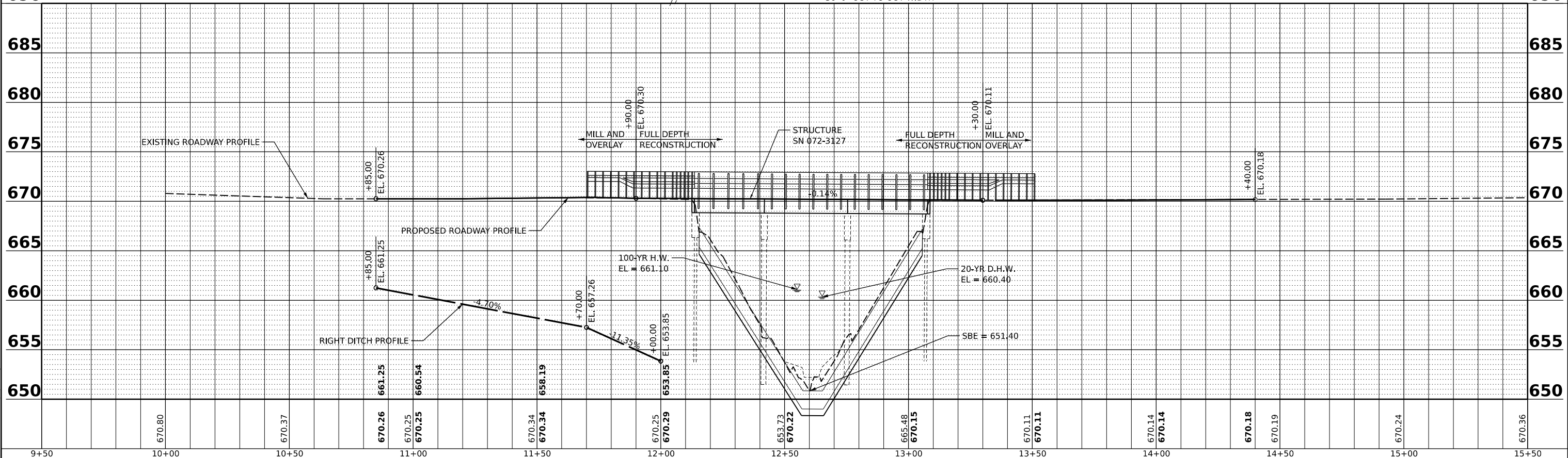


DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	STRUCTURE NOTATIONS CHKD
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DESIGNED - RDH 4/25/2023 12:00:00 AM
 DRAWN - RLA 4/25/2023 12:00:00 AM
 REVIEWED - MGD 10/6/2023 12:00:00 AM
 MODEL - PAL_DUNCAN - Plan 1
 FILE NAME - B22j0ba221391cdp1RevdSheet1br-pln1.dgn



NOTE:
ALL PAVEMENT MARKINGS SHALL BE RECESSED.



Final

USER NAME	ander00846
DESIGNED	RDH
DRAWN	RLA
CHECKED	MGD
DATE	10/6/2023 12:00:00
REVIS	
REVIS	
REVIS	
REVIS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

DUNCAN ROAD
PLAN AND PROFILE

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	12
22L0159		CONTRACT NO.	89836	
ILLINOIS		FED. AID PROJECT		

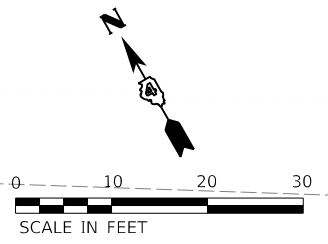
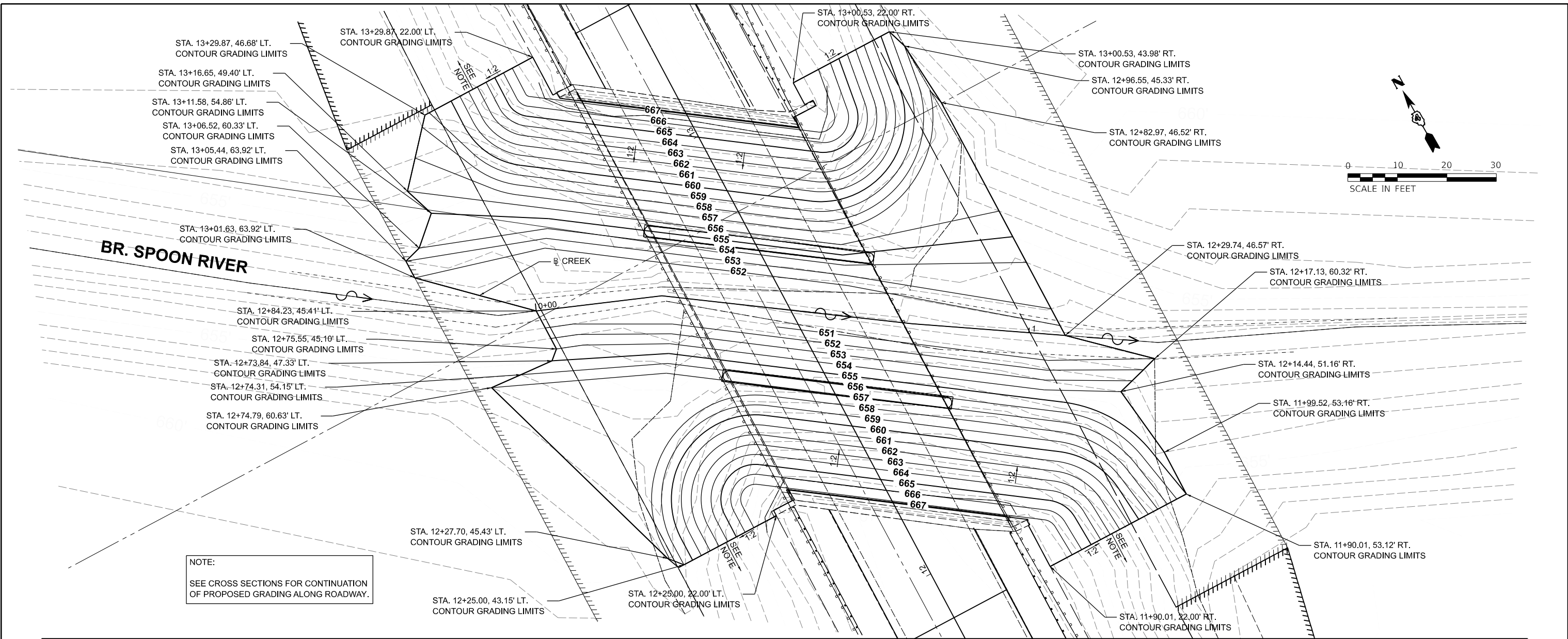
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FILE NAME	
PLAN	
NOTE BOOK	
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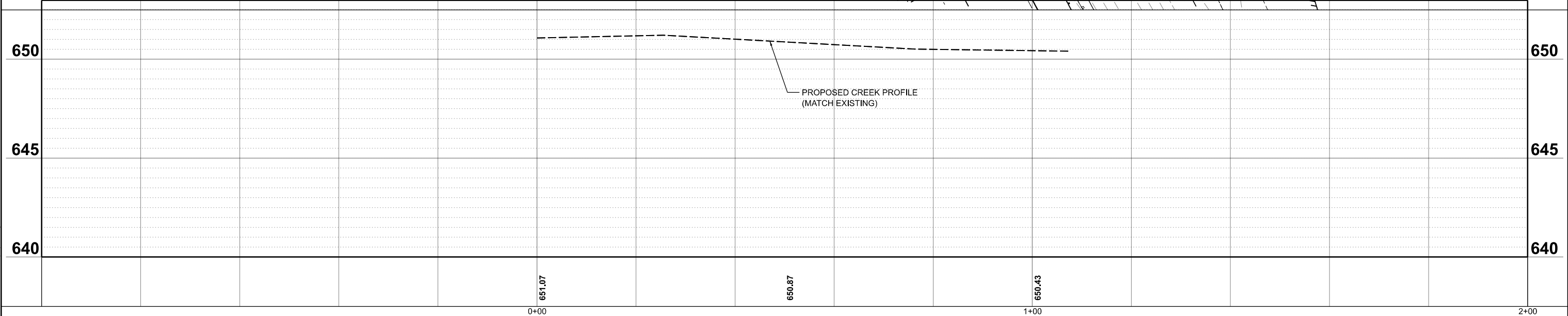
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PROFILE	
NOTE BOOK	
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 DRAWN: RLA 4/25/2023 12:00:00 AM
 REVIEWED: MGD 10/6/2023 12:00:00 AM

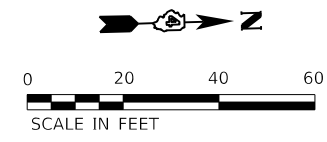
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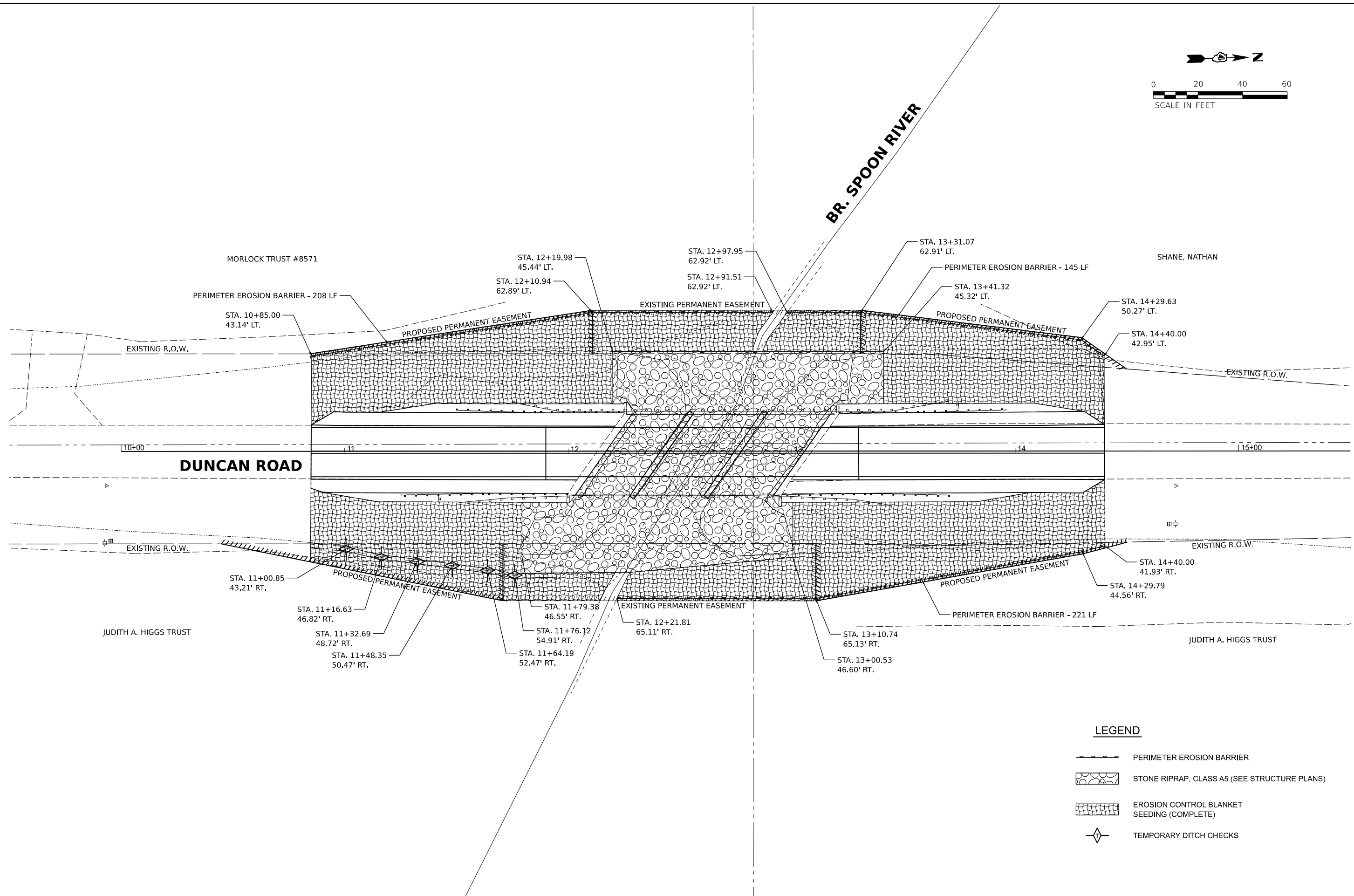
NOTE:
 SEE CROSS SECTIONS FOR CONTINUATION
 OF PROPOSED GRADING ALONG ROADWAY.



Final	USER NAME	DESIGNED - RDH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DUNCAN ROAD CREEK PLAN AND PROFILE	FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 0.1666667' / in.	CHECKED - MGD	REVISED -			374	21-00052-00-BR	PEORIA	38	13
	PLOT DATE = 12/6/2023	DATE - 10/6/2023 12:00:00	REVISED -	SCALE: 1" = 10'	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 89836		ILLINOIS FED. AID PROJECT	



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LEGEND

- PERIMETER EROSION BARRIER
- STONE RIPRAP, CLASS A5 (SEE STRUCTURE PLANS)
- EROSION CONTROL BLANKET SEEDING (COMPLETE)
- TEMPORARY DITCH CHECKS

DESIGNED RDH 4/25/2023 12:00:00 AM
 DRAWN RLA 4/25/2023 12:00:00 AM
 REVIEWED MGD 10/6/2023 12:00:00 AM

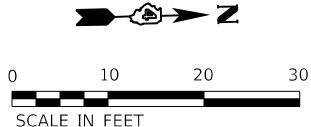
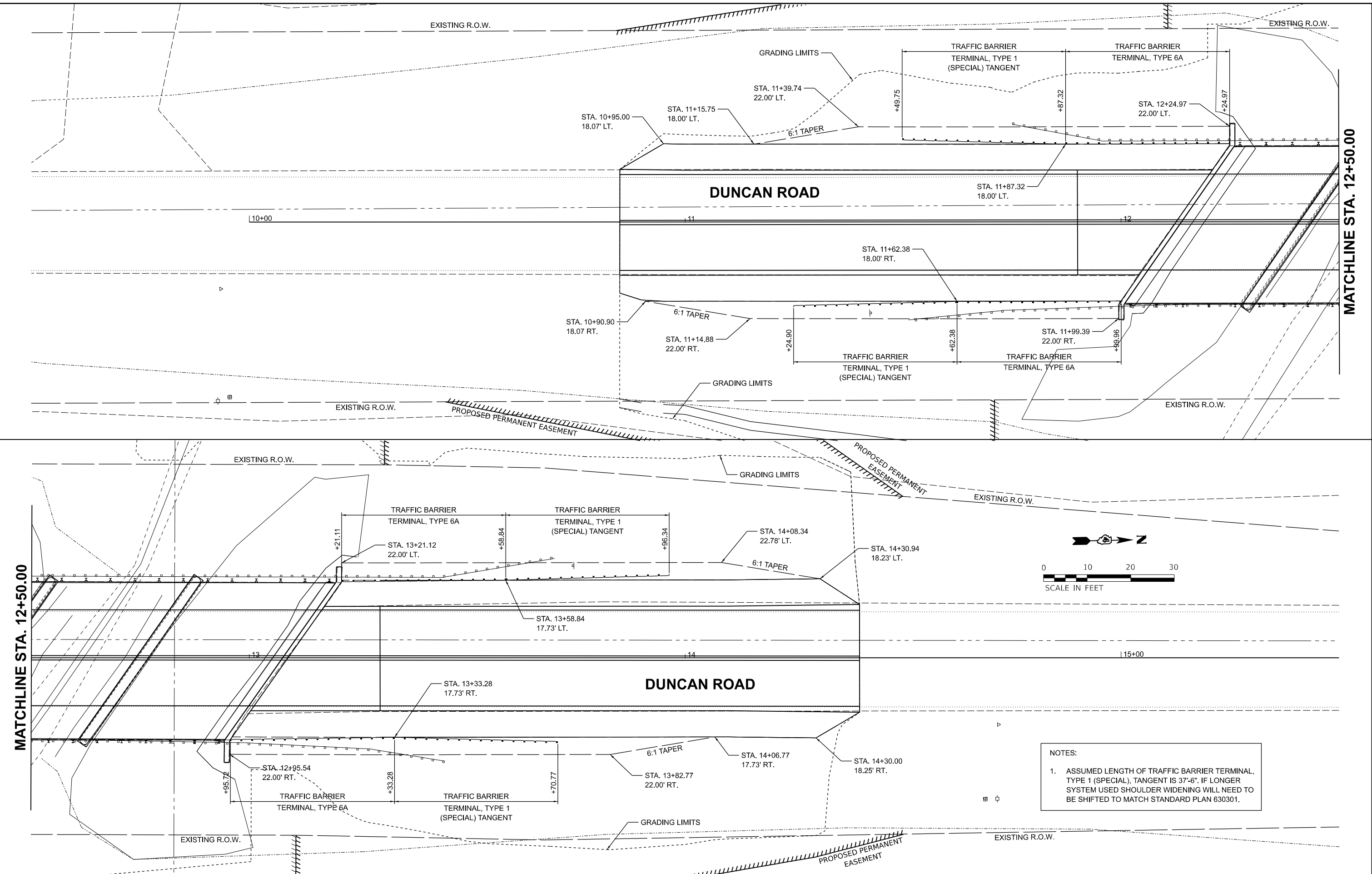
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		DRAWN - RLA	REVISED -
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	PLOT DATE = 12/6/2023	DATE - 10/6/2023 12:00:00	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DUNCAN ROAD EROSION CONTROL PLAN			
SCALE: 1" = 20'	SHEET	OF SHEETS	STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR 22L0159	PEORIA	38	14
		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				



NOTES:
 1. ASSUMED LENGTH OF TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL), TANGENT IS 37'-6". IF LONGER SYSTEM USED SHOULDER WIDENING WILL NEED TO BE SHIFTED TO MATCH STANDARD PLAN 630301.

Final	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DUNCAN ROAD GUARDRAIL DETAIL	FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ander00846	- RDH	-			374	21-00052-00-BR	PEORIA	38	15
	PLOT SCALE	CHECKED	REVISED	SCALE: 1" = 10'	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 89836		ILLINOIS FED. AID PROJECT	
	0.16666667' / in.	- MGD	-							
	PLOT DATE	DATE	REVISED							
	12/6/2023	10/6/2023 12:00:00	-							

B.M. #1 - Cotton Spindle set in the west face of powerpole, SE side of bridge. Elev. 665.64
 B.M. #2 - Cotton Spindle set in the west face of powerpole, NE side of bridge. Elev. 665.47
 Existing Structure (No. 072-3127):
 Original structure was constructed in 1990 and consists of three spans with a 35° Lt. Fwd. Skew, 96'-1 3/4" Bk. to Bk. PPCDB with out to out width of 36'-0".
 The Superstructure along with the abutment backwalls are to be removed and replaced during complete closure.
 No Salvage.

LOADING HL-93 (NEW CONST.)

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

LOADING HS20-44

Existing Conditions - Substructure

DESIGN SPECIFICATIONS (NEW CONST.)

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition with all Interims

DESIGN STRESSES

FIELD UNITS (NEW CONST.)

f_c = 3,500 psi
 f_y = 60,000 psi (Reinforcement)

FIELD UNITS (EXIST. CONST.)

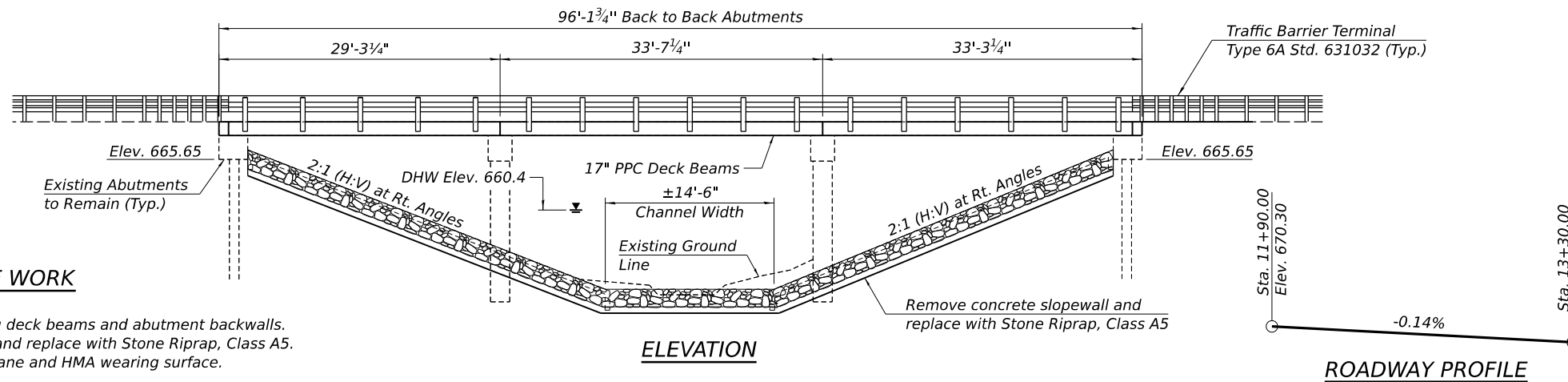
f_c = 3,500 psi (Substructure)
 f_y = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS (NEW CONST.)

f_c = 6,000 psi
 f_{ci} = 5,000 psi
 f_{pu} = 270,000 psi (1/2" Ø low lax Strands)
 f_{pbt} = 201,960 psi (1/2" Ø low lax Strands)
 f_y = 60,000 psi (Reinforcement)

SCOPE OF WORK

1. Repair existing substructure.
2. Remove and replace existing deck beams and abutment backwalls.
3. Remove concrete slopewall and replace with Stone Riprap, Class A5.
4. Install waterproofing membrane and HMA wearing surface.



Note:
 Existing plan elevations have been adjusted +1.19ft.
 Existing slopewall is a fabric formed concrete revetment mat.

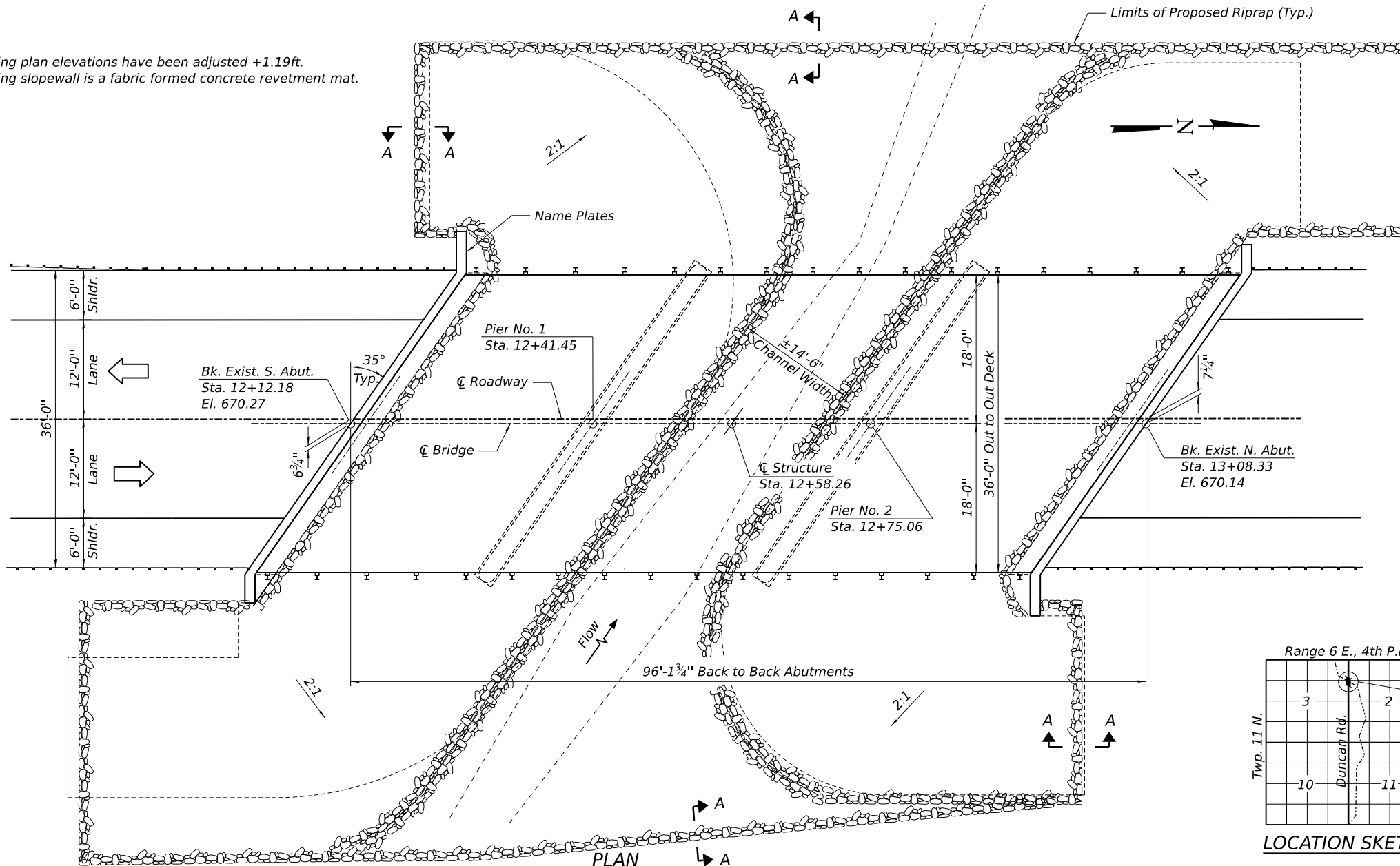
WATERWAY INFORMATION

Drainage Area = 4.2 Sq. Mi. Low Grade Elev. 670.08 @ Sta. 133+05

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10	10	833	211	211	660.0	0.2	0.2	660.2	660.2
Design	20	1056	250	250	660.4	0.4	0.4	660.8	660.8
50	50	1320	289	289	660.8	0.6	0.6	661.4	661.4
Base	100	1550	322	322	661.1	0.8	0.8	661.9	661.9
500	500	2100	394	394	661.7	1.3	1.3	663.0	663.0

DESIGN SCOUR ELEVATION TABLE

Event/Limit	Design Scour Elev. (ft.)				Item 113
	S. Abut.	Pier 1	Pier 2	N. Abut.	
Q100	665.65	649.42	649.42	665.65	5
Q200	665.65	649.42	649.42	665.65	
Design	665.65	649.42	649.42	665.65	
Check	665.65	649.42	649.42	665.65	



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



Signature of Patrick M. Hannemann

10/11/23
DATE

LIC. EXP. DATE: 11/30/24

GENERAL PLAN
DUNCAN ROAD OVER BR. SPOON RIVER
SECTION 21-00052-00-BR
PEORIA COUNTY
STATION 12+58.26
STRUCTURE NO. 072-3127

DESIGNED	CGP	4/25/2023
DRAWN	RSJ	4/25/2023
REVIEWED	PMH	8/24/2023

MODEL: Sheet
 FILE NAME: R:\22\jobs\22_0159\CAD\Struct\Sheet001_GeneralPlan.dgn

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	PLOT DATE = 10/11/2023	CHECKED - PMH	REVISED -
		DATE - 8/24/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN			
STRUCTURE NO 072-3127			
SCALE: N/A	SHEET 1	OF 11 SHEETS	STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	16
2210159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

1. General Plan
2. General Data
3. Superstructure
- 4.-6. 17" PPC Deck Beams
7. 17" PPC Deck Beam Details
8. Steel Railing Details, Type SM with HMA Surface
9. South Abutment Details
10. North Abutment Details
11. Pier Details

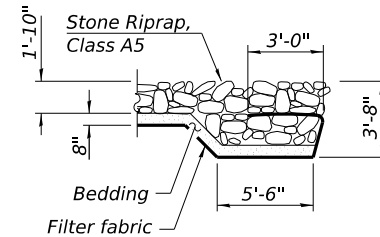
STA. 12+58.26
REBUILT 202 BY
PEORIA COUNTY
DUNCAN RD. Sec. 21-00052-00-BR
LOADING HL-93
STR. NO. 072-3127

NAME PLATE
See Std. 515001

Note:
The existing name plate shall be cleaned and relocated adjacent to the new plate.
Cost included in Name Plates.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.	-	1246	1246
Filter Fabric	Sq. Yd.	-	1246	1246
Polymerized Bituminous Materials (Tack Coat)	Pound	277	-	277
Polymerized Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	Ton	49	-	49
Removal of Existing Superstructures	Each	1	-	1
Concrete Removal	Cu. Yd.	-	5.4	5.4
Slope Wall Removal	Sq. Yd.	-	996	996
Concrete Structures	Cu. Yd.	-	6.5	6.5
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	3366	-	3366
Reinforcement Bars, Epoxy Coated	Pound	-	1140	1140
Steel Railing, Type SM	Foot	192	-	192
Name Plates	Each	-	1	1
Waterproofing Membrane System	Sq. Yd.	385	-	385
Portland Cement Mortar Fairing Course	Foot	1031	-	1031
Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq. Ft.	-	56	56



SECTION A-A

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

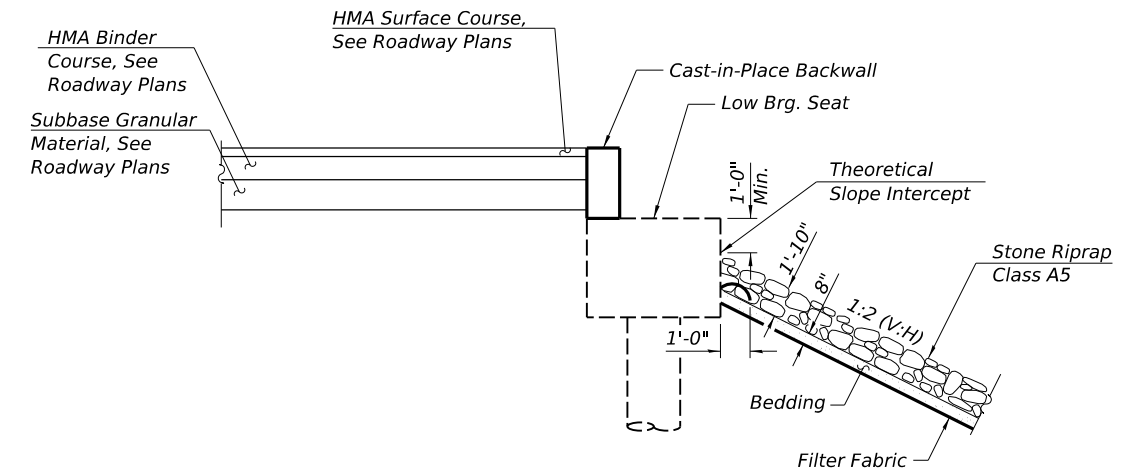
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall 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.

Repair of the substructure shall be completed prior to the placement of the new beams.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted.

The cost of removal of existing railing and removal of existing wearing surface shall be included in the cost of Removal of Existing Superstructures.



SECTION THRU ABUT.

(Horiz. Dim. @ Rt. L's)



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DRAWN	RSJ	4/25/2023
REVIEWED	PMH	8/24/2023

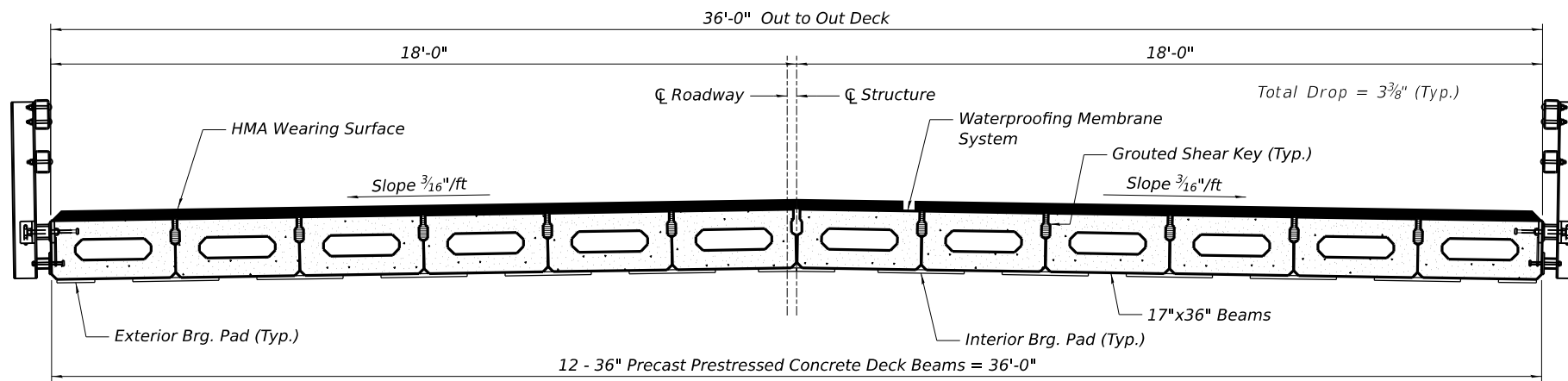
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		DATE - 8/24/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

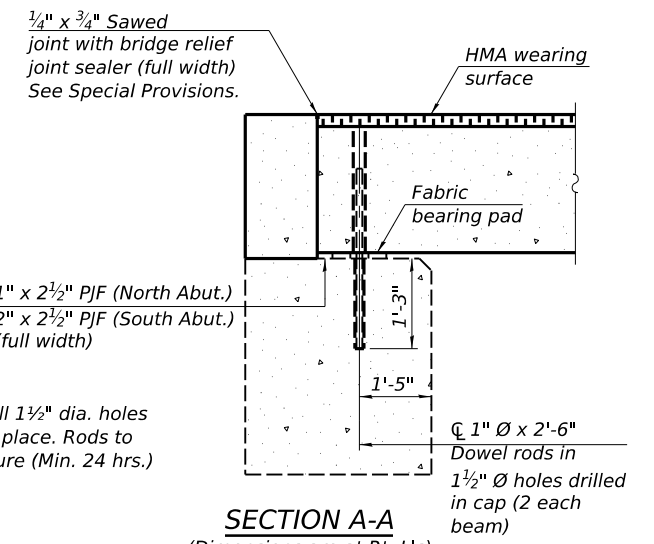
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STRUCTURE NO 072-3127			
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FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				

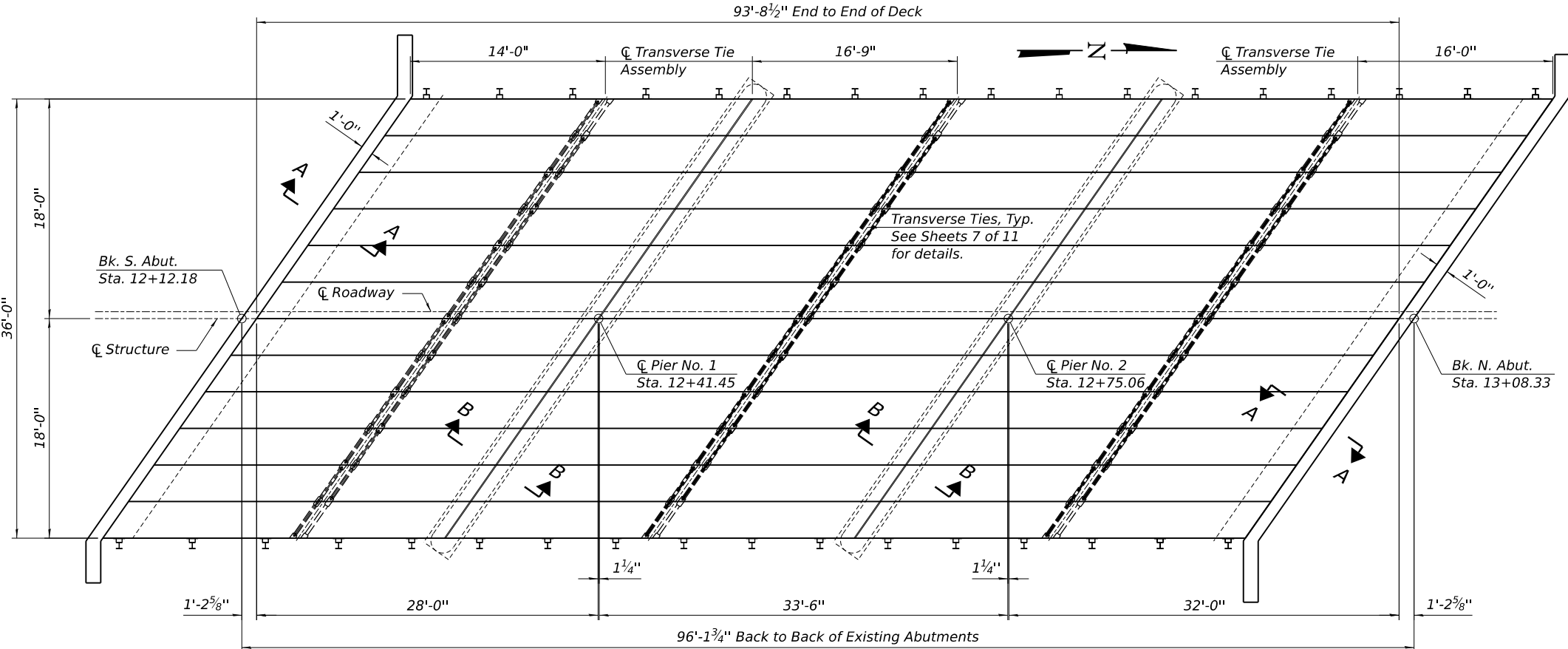


CROSS SECTION
 (Looking North)

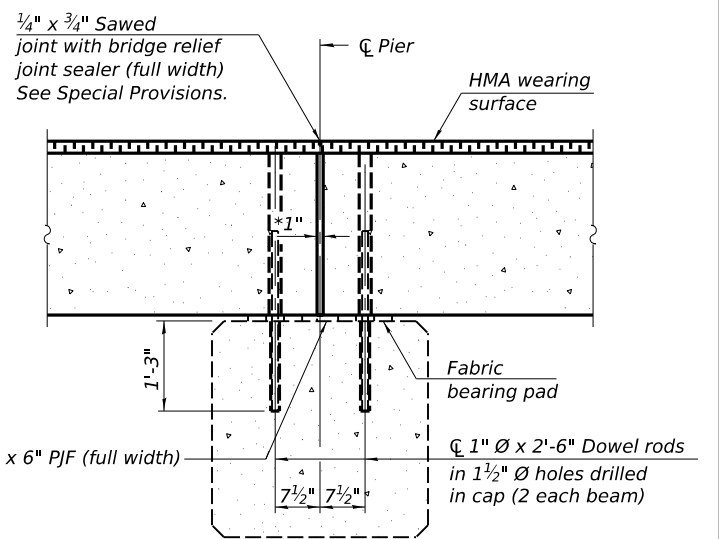
Note:
 After beams are in place, drill 1 1/2" dia. holes in cap & grout dowel rods in place. Rods to be grouted and allowed to cure (Min. 24 hrs.) prior to grouting shear keys.



SECTION A-A
 (Dimensions are at Rt. L's)



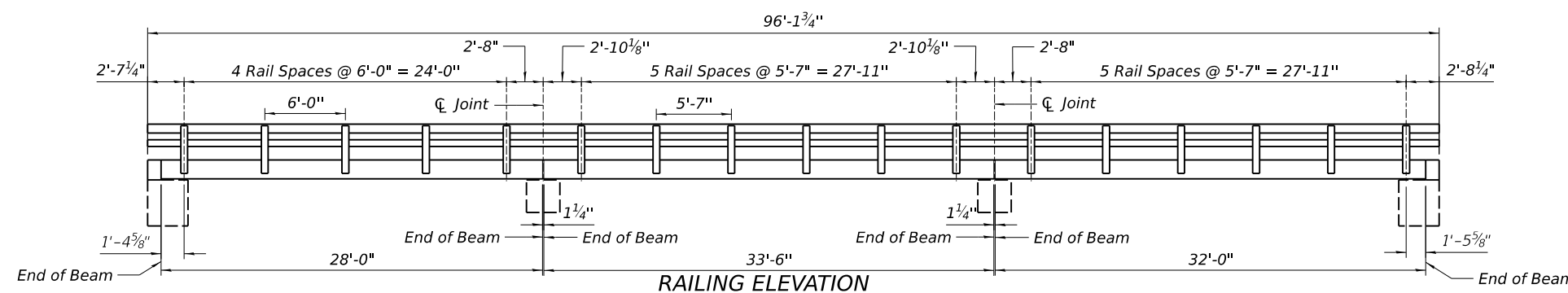
PLAN - DECK BEAMS



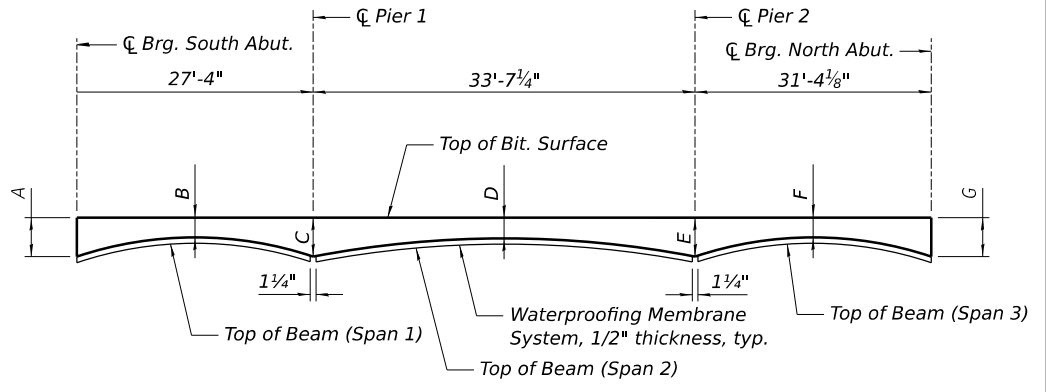
SECTION B-B
 (Dimensions are at Rt. L's)

*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

	A	B	C	D	E	F	G
W. Edge	2 3/4"	2 1/4"	2 1/4"	1 3/4"	1 3/4"	1 3/4"	2 1/4"
Centerline	3"	2 1/2"	2 1/2"	1 3/4"	2"	1 3/4"	2 1/4"
E. Edge	3 1/4"	2 3/4"	2 3/4"	2"	2 1/4"	2"	2 3/4"



RAILING ELEVATION
 (Dimensions are measured along face of beam.)



ANTICIPATED HMA WEARING SURFACE PROFILE

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DRAWN	RST	4/25/2023
REVIEWED	PMH	8/24/2023

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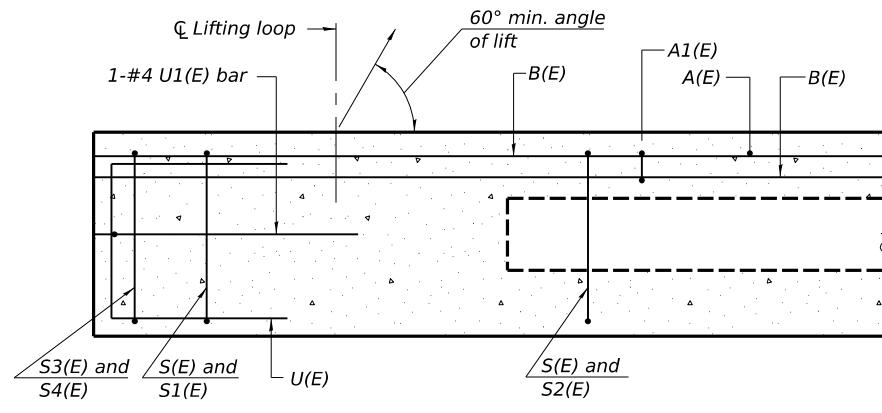
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	PLOT DATE = 12/6/2023	DATE - 8/24/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

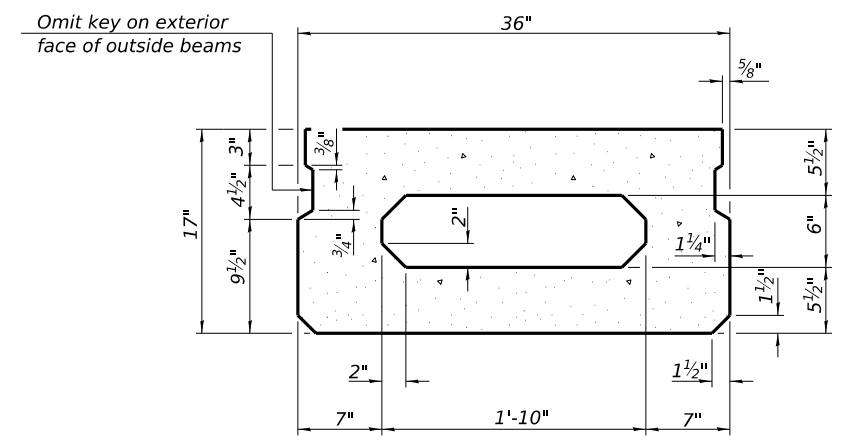
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SUPERSTRUCTURE
STRUCTURE NO 072-3127

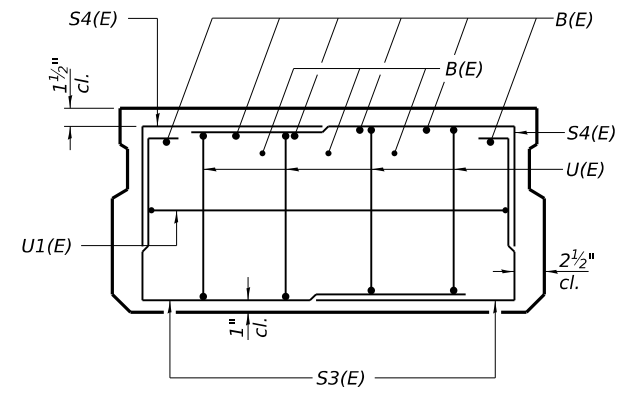
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374	21-00052-00-BR	PEORIA	38	18
22L0159		CONTRACT NO. 89836		
ILLINOIS / FED. AID PROJECT				



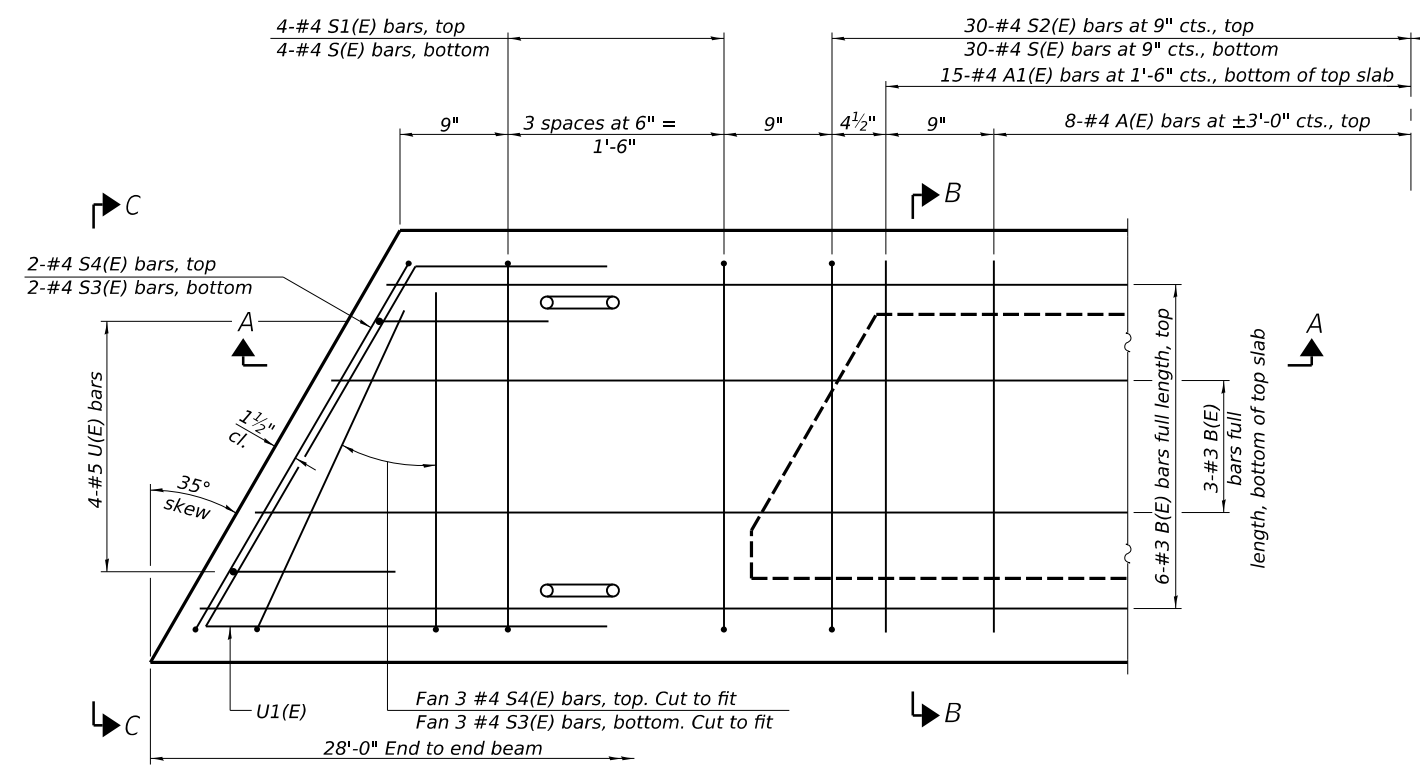
SECTION A-A



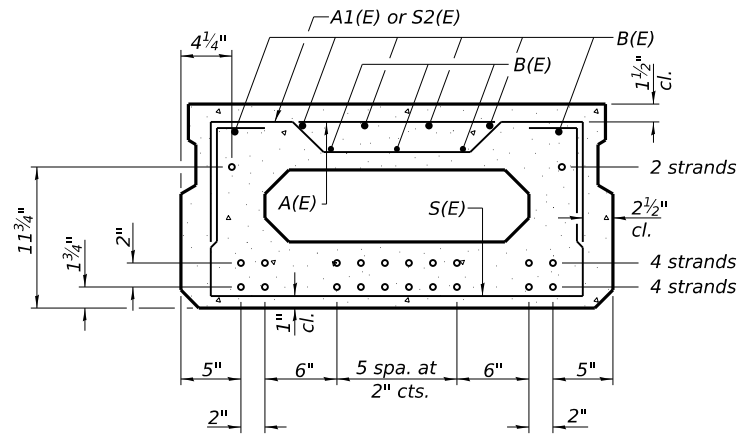
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	8	#4	2'-7"	—
A1(E)	15	#4	2'-10"	~
B(E)	9	#3	27'-8"	—
S(E)	38	#4	5'-9"	⌋
S1(E)	8	#4	4'-3"	⌋
S2(E)	30	#4	4'-6"	⌋
S3(E)	10	#4	4'-9"	⌋
S4(E)	10	#4	4'-0"	⌋
U(E)	8	#5	3'-8"	⌋
U1(E)	2	#4	7'-4"	⌋

Note: See sheet 7 of 11 for additional details and Bill of Material.

MINIMUM BAR LAP
#3 bar = 1'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

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DRAWN	RST	4/25/2023
REVIEWED	PMH	8/24/2023

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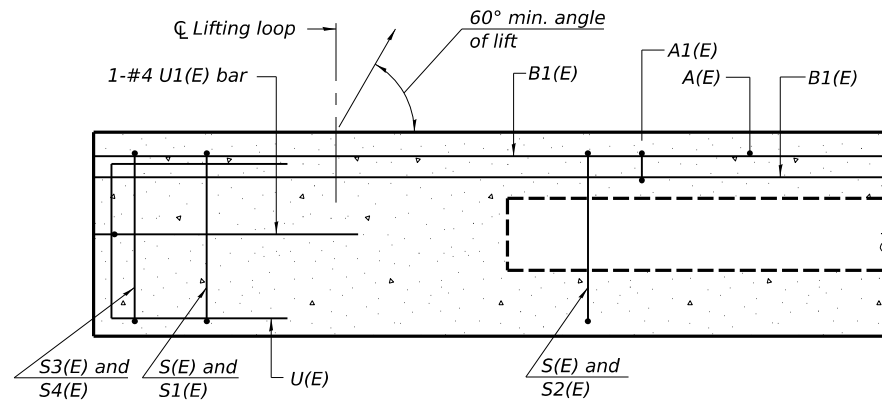
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		DATE - 8/24/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

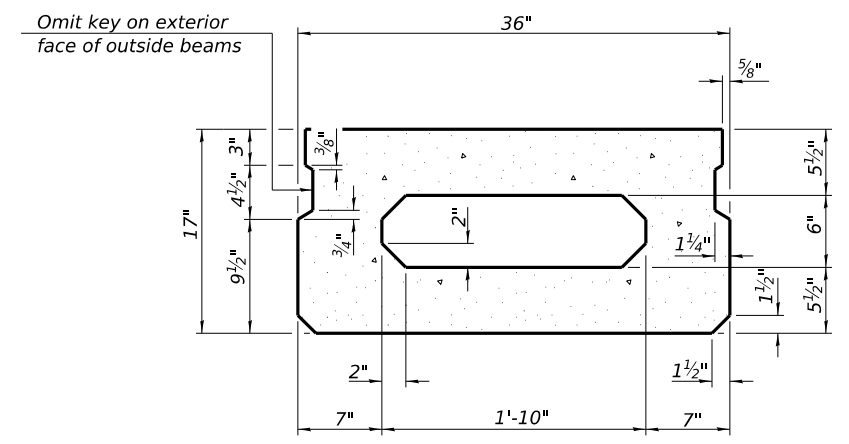
17" X 36" DECK BEAM (SPAN 1)
STRUCTURE NO 072-3127

SCALE: N/A SHEET 4 OF 11 SHEETS STA. TO STA.

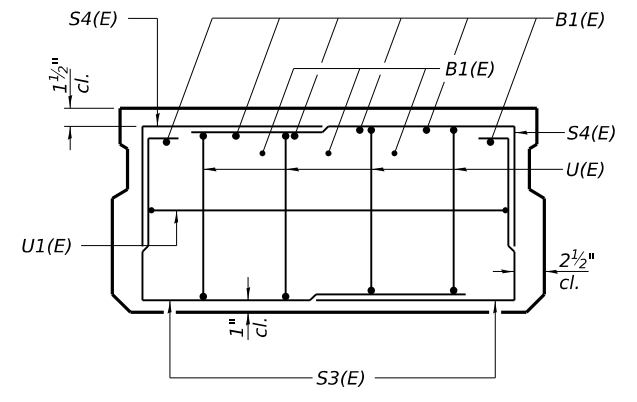
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374	21-00052-00-BR	PEORIA	38	19
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				



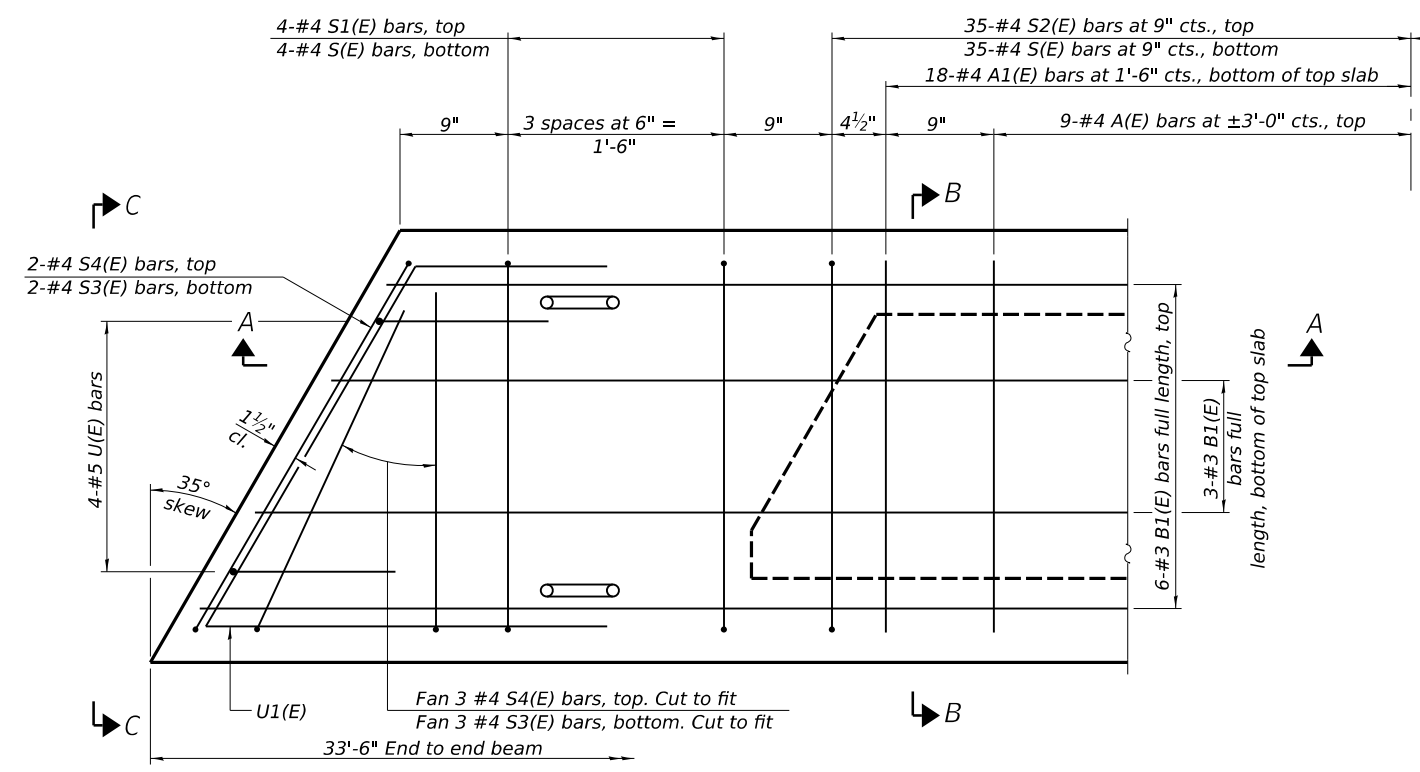
SECTION A-A



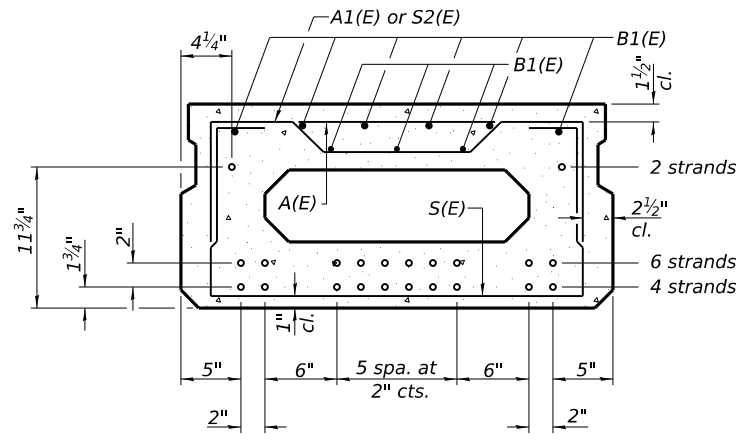
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	9	#4	2'-7"	—
A1(E)	18	#4	2'-10"	~
B1(E)	9	#3	33'-2"	—
S(E)	43	#4	5'-9"	⌋
S1(E)	8	#4	4'-3"	⌋
S2(E)	35	#4	4'-6"	⌋
S3(E)	10	#4	4'-9"	⌋
S4(E)	10	#4	4'-0"	⌋
U(E)	8	#5	3'-8"	⌋
U1(E)	2	#4	7'-4"	⌋

Note: See sheet 7 of 11 for additional details and Bill of Material.

MINIMUM BAR LAP
#3 bar = 1'-6"

DESIGNED	CGP	4/25/2023
DRAWN	RST	4/25/2023
REVIEWED	PMH	8/24/2023

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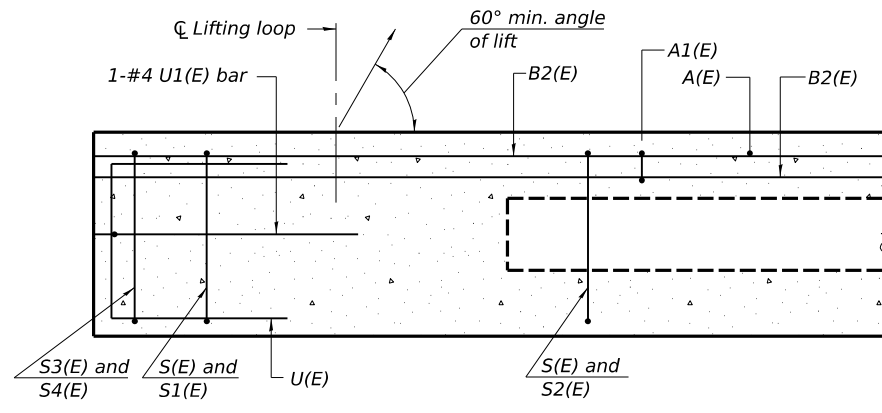
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		DATE - 8/24/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

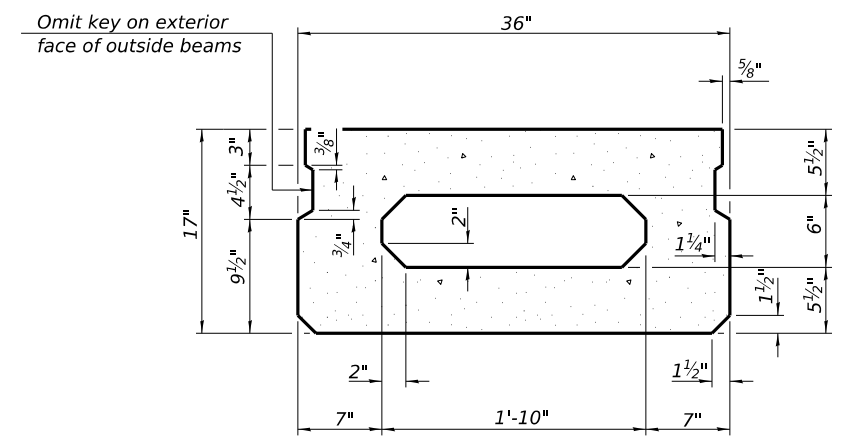
17" X 36" DECK BEAM (SPAN 2)
STRUCTURE NO 072-3127

SCALE: N/A SHEET 5 OF 11 SHEETS STA. TO STA.

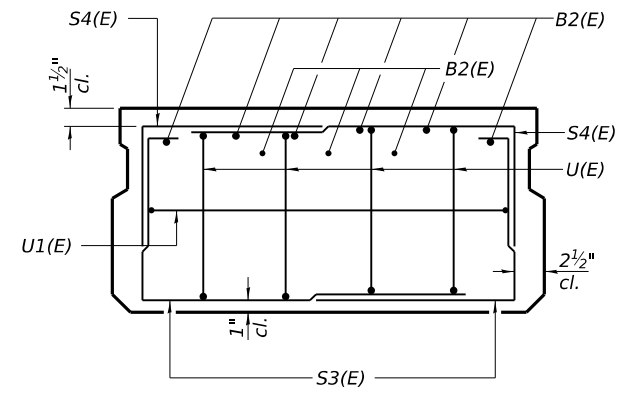
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	20
22L0159		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



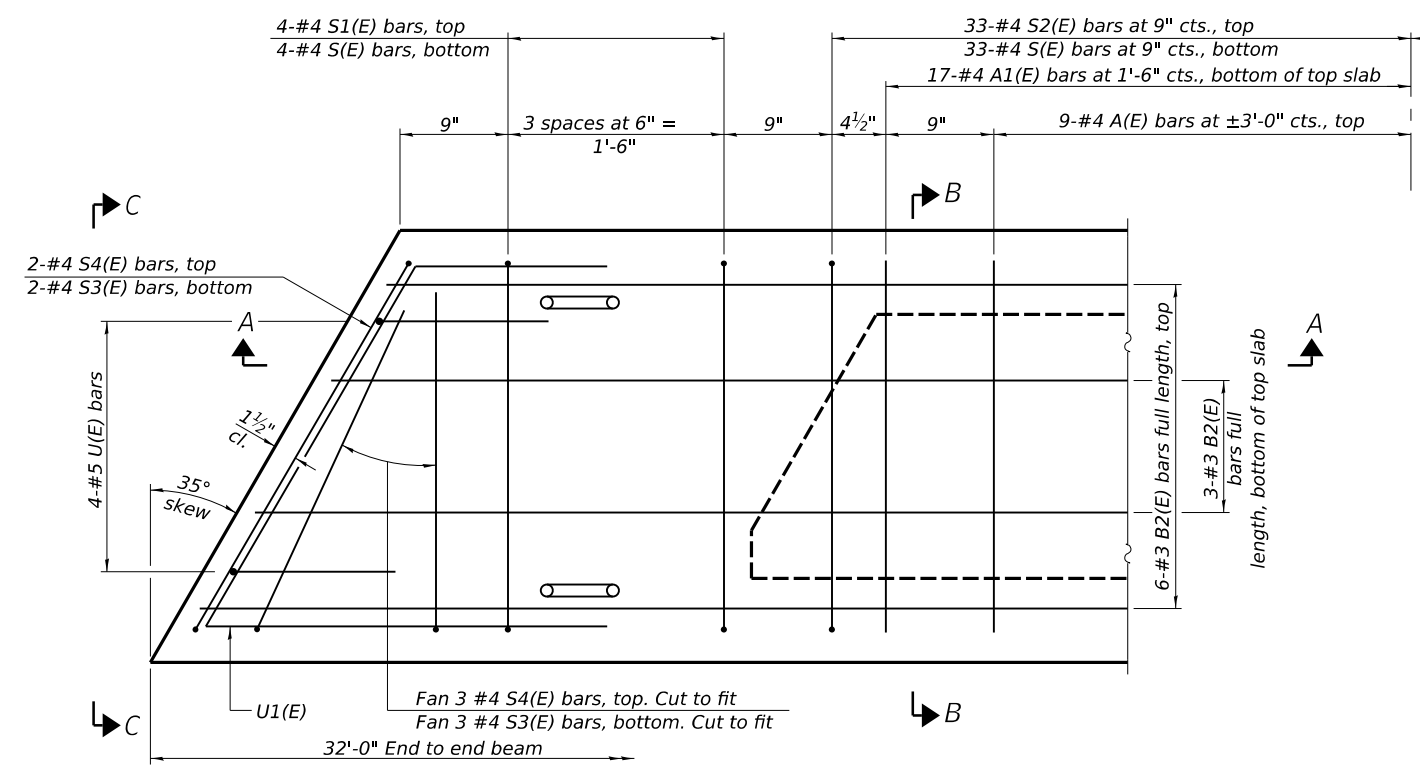
SECTION A-A



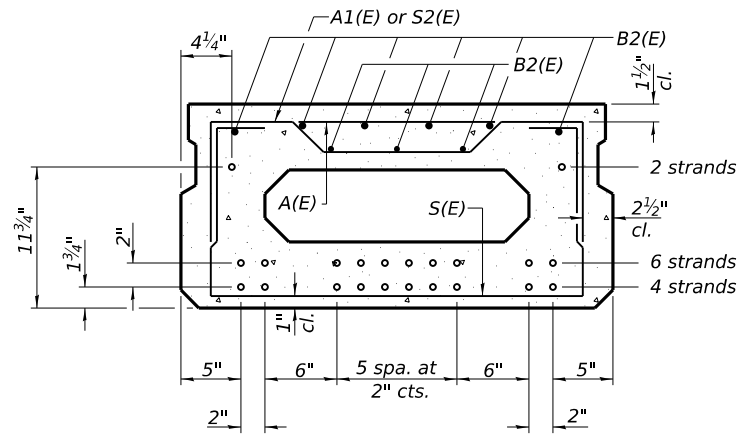
SECTION B-B
 (Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B
 (Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
 ONE BEAM ONLY
 (For information only)

Bar	No.	Size	Length	Shape
A(E)	9	#4	2'-7"	—
A1(E)	17	#4	2'-10"	~
B2(E)	9	#3	31'-8"	—
S(E)	41	#4	5'-9"	⌋
S1(E)	8	#4	4'-3"	⌋
S2(E)	33	#4	4'-6"	⌋
S3(E)	10	#4	4'-9"	⌋
S4(E)	10	#4	4'-0"	⌋
U(E)	8	#5	3'-8"	⌋
U1(E)	2	#4	7'-4"	⌋

Note: See sheet 7 of 11 for additional details and Bill of Material.

MINIMUM BAR LAP
 #3 bar = 1'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

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REVIEWED	PMH	8/24/2023

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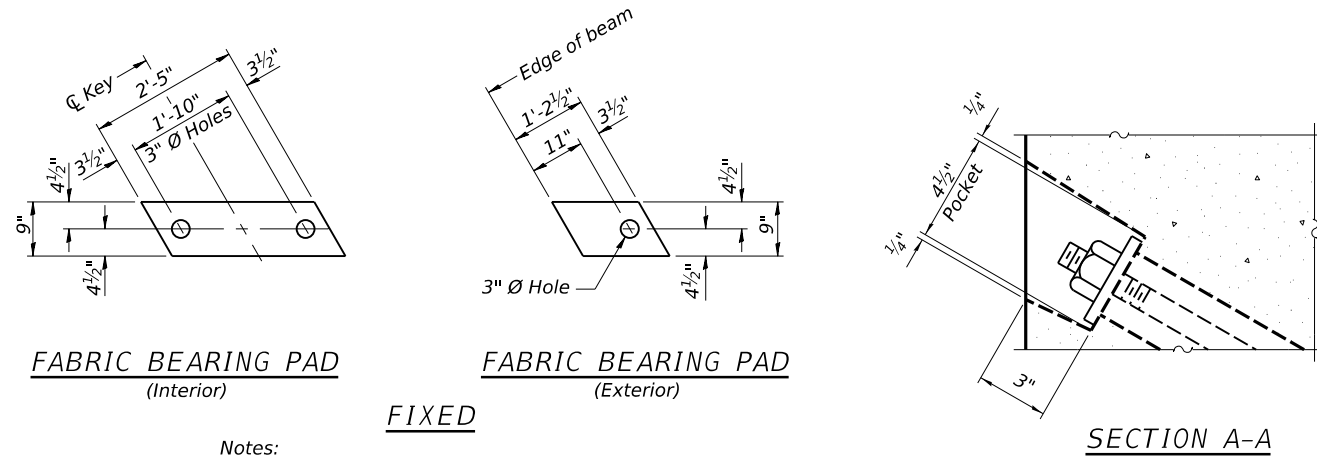
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

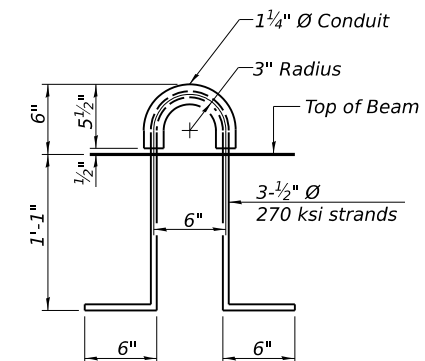
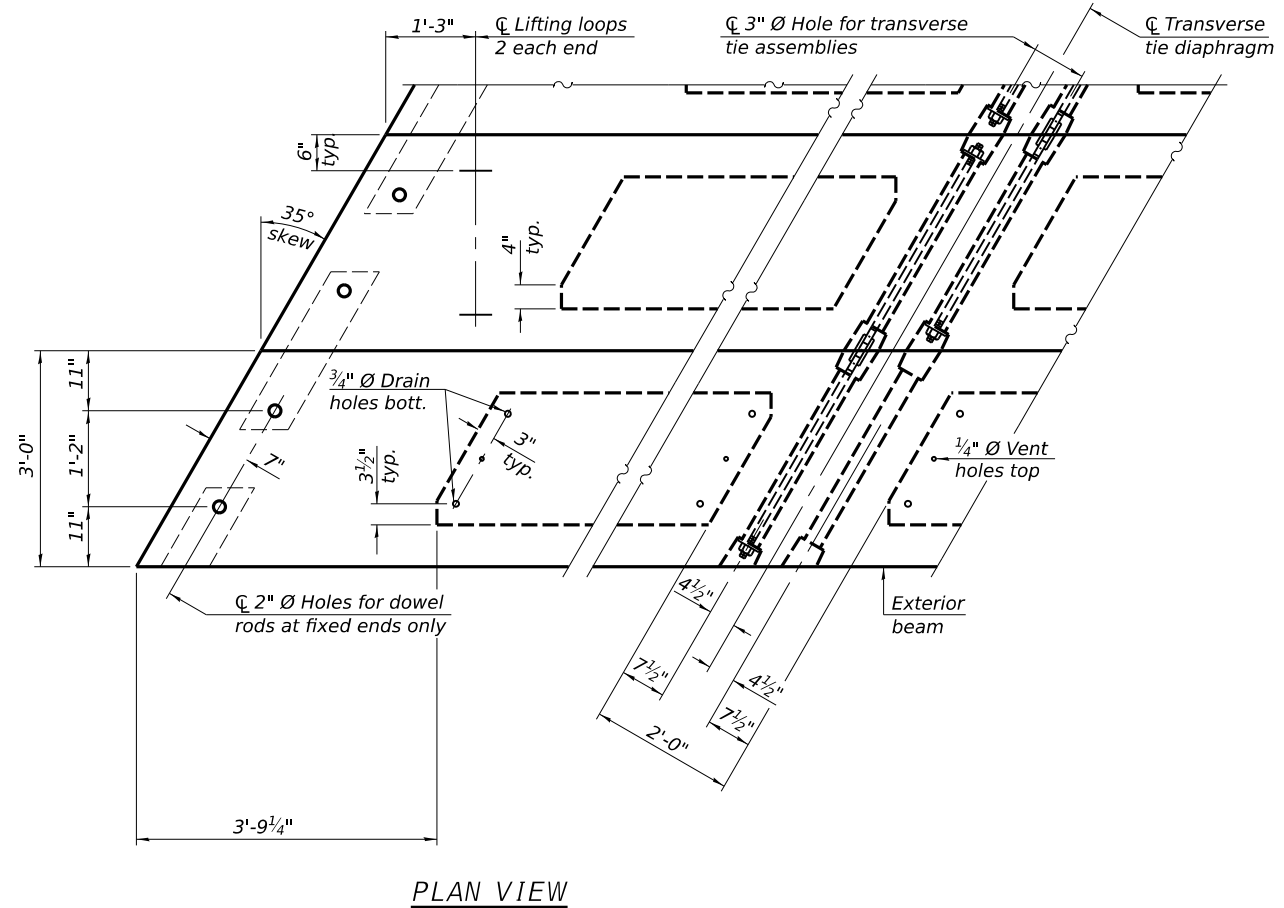
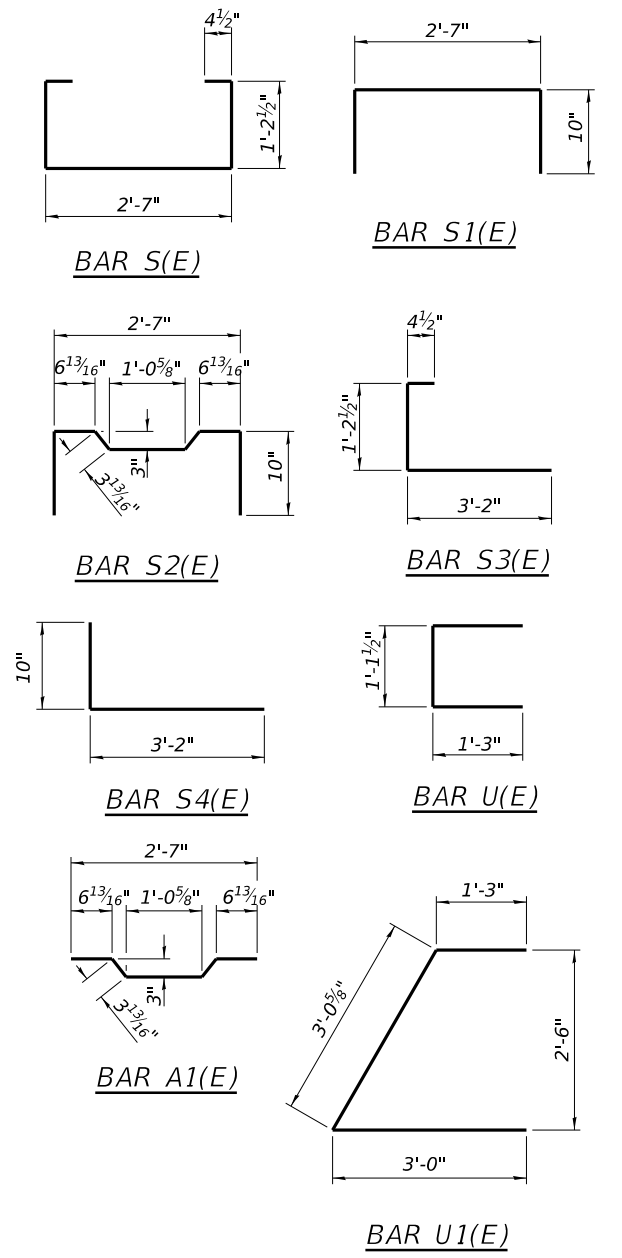
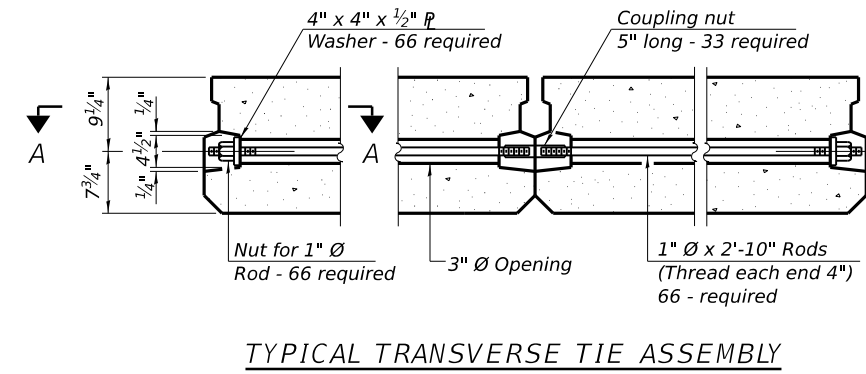
17" X 36" DECK BEAM (SPAN 3)
STRUCTURE NO 072-3127

SCALE: N/A SHEET 6 OF 11 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	21
	22L0159	CONTRACT NO.	89836	
		ILLINOIS	FED. AID PROJECT	



Notes:
 All bearing pads shall be 1" thick. An additional 1" bearing pad shall be provided at the South Abutment and Piers.
 Omit holes when using expansion bearings.
 Expansion bearing pad shall be bonded to the substructure.



NOTES
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
 A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.
 Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
 Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
 Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	3366
---	---------	------

Note: Connect beams in pairs with the transverse tie configuration shown.

DESIGNED	CGP	4/25/2023
DRAWN	RST	4/25/2023
REVIEWED	PMH	8/24/2023

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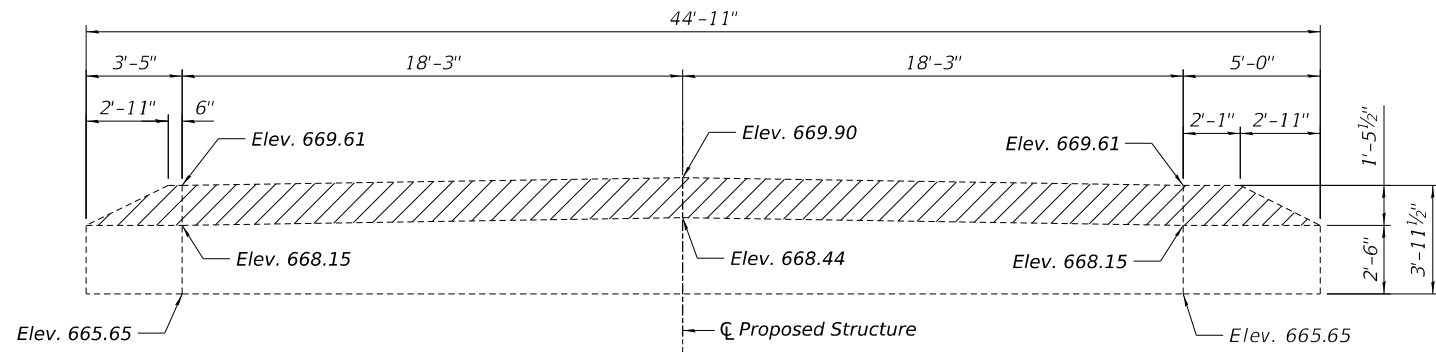
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		DRAWN -	REVISED -
	PLOT SCALE = 0:2.0000 " = 1" / in.	CHECKED -	REVISED -
	PLOT DATE = 12/6/2023	DATE - 8/24/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**17" X 36" DECK BEAM DETAILS
 STRUCTURE NO 072-3127**

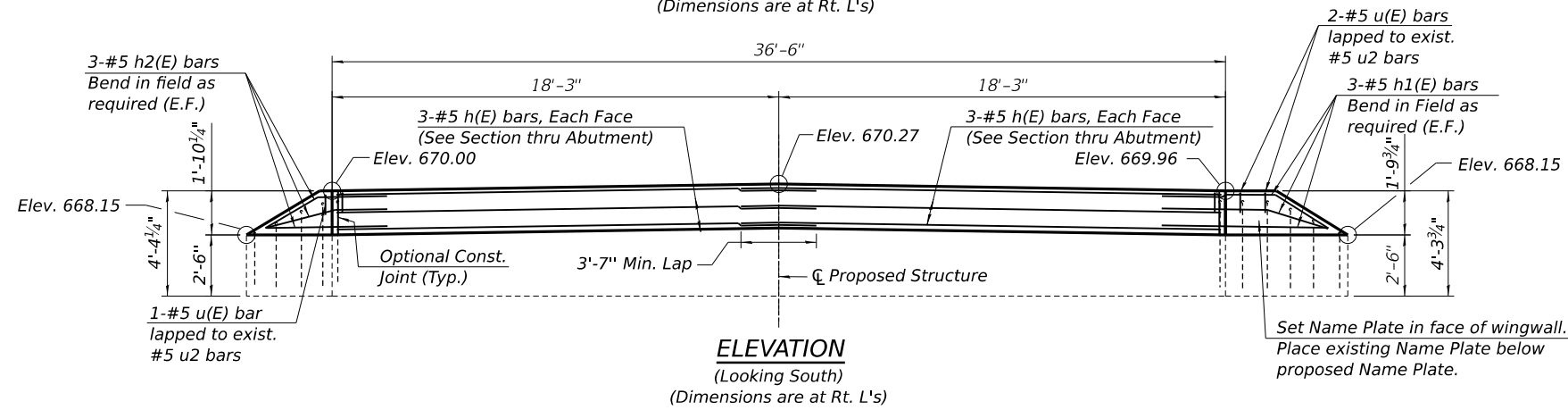
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FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	22
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				



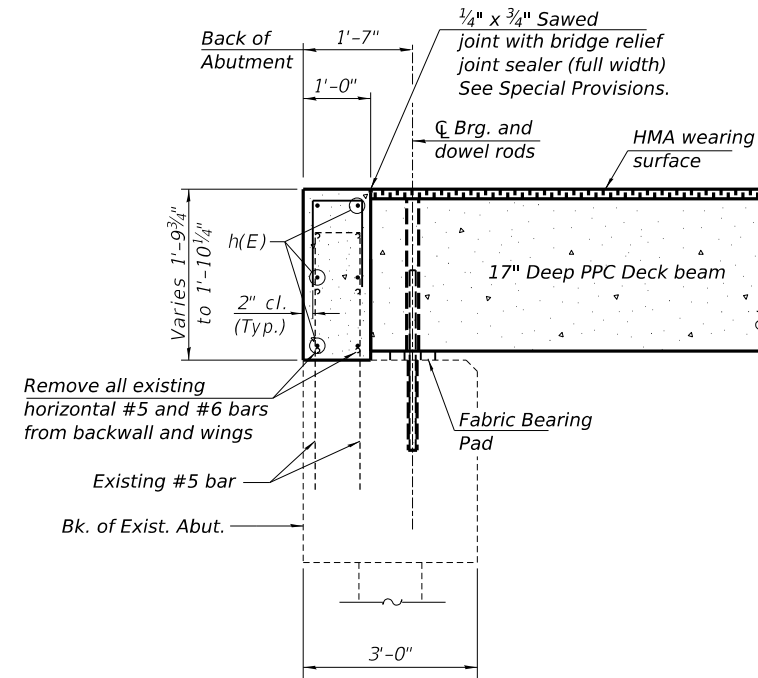
CONCRETE REMOVAL ELEVATION

(Looking South)
 (Dimensions are at Rt. L's)

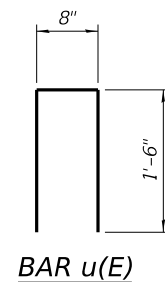


ELEVATION

(Looking South)
 (Dimensions are at Rt. L's)

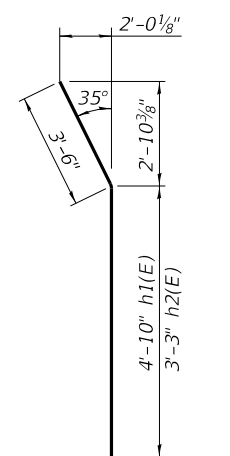


SECTION A-A
 (Dimensions are at right L's)

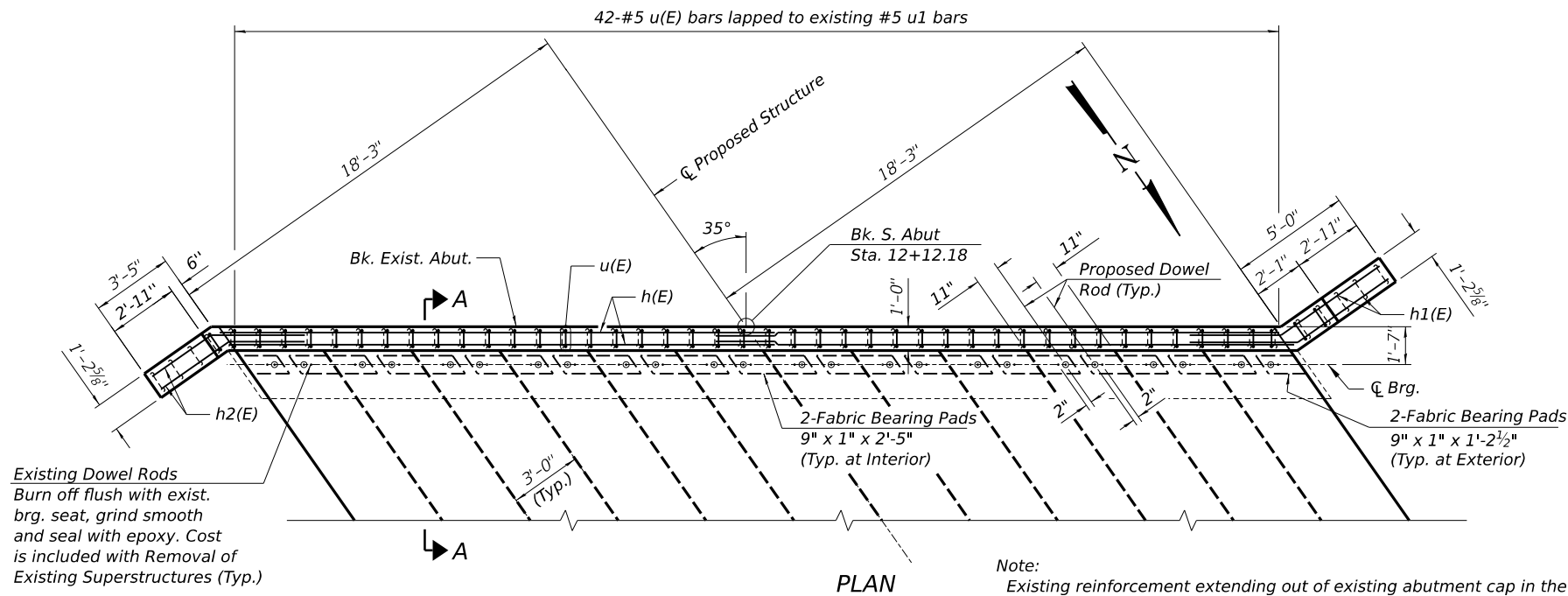


BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
h(E)	12	#5	24'-1"	—	
h1(E)	6	#5	8'-4"	—	
h2(E)	6	#5	6'-9"	—	
u(E)	45	#5	3'-8"	U	
Concrete Removal				Cu. Yd.	2.7
Reinforcement Bars, Epoxy Coated				Pound	520
Concrete Structures				Cu. Yd.	3.4



BARS h1(E) & h2(E)



PLAN

Note:
 Existing reinforcement extending out of existing abutment cap in the backwall shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
 Existing reinforcement extending out of existing abutment cap that is damaged or not salvaged shall be replaced with either drilled or epoxy grouted bars. Bars epoxy grouted shall have an embedment sufficient to develop 1.25 times the capacity of the reinforcement bar.
 Cast backwall and top of wingwalls after beams have been erected.

Existing Dowel Rods
 Burn off flush with exist. brg. seat, grind smooth and seal with epoxy. Cost is included with Removal of Existing Superstructures (Typ.)

DESIGNED	CGP	4/25/2023
DRAWN	RSJ	4/25/2023
REVIEWED	PMH	8/24/2023

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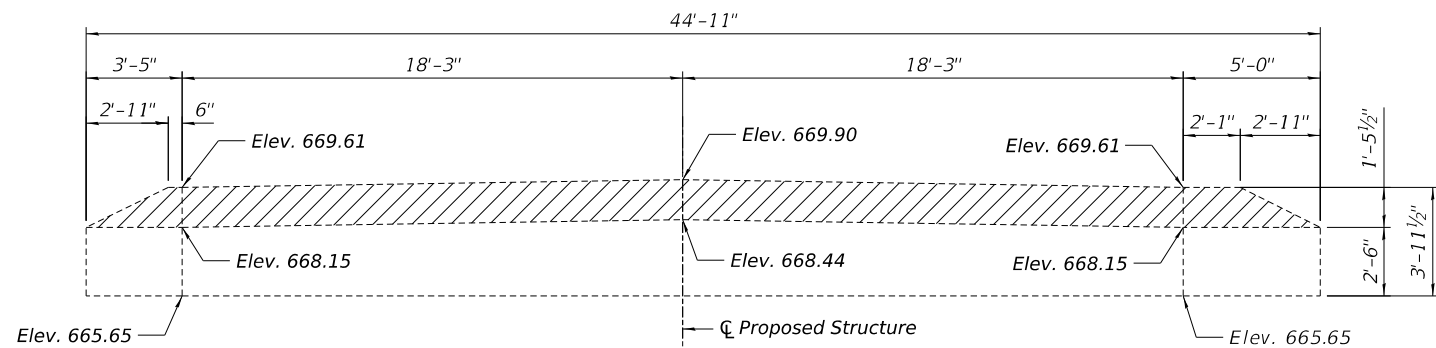
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

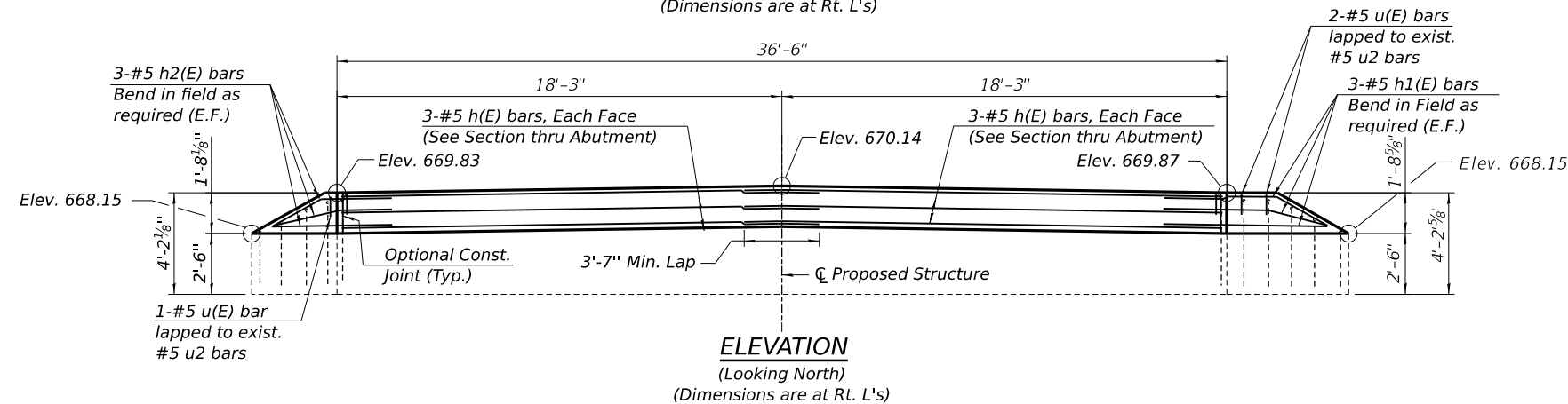
**SOUTH ABUTMENT DETAILS
 STRUCTURE NO 072-3127**

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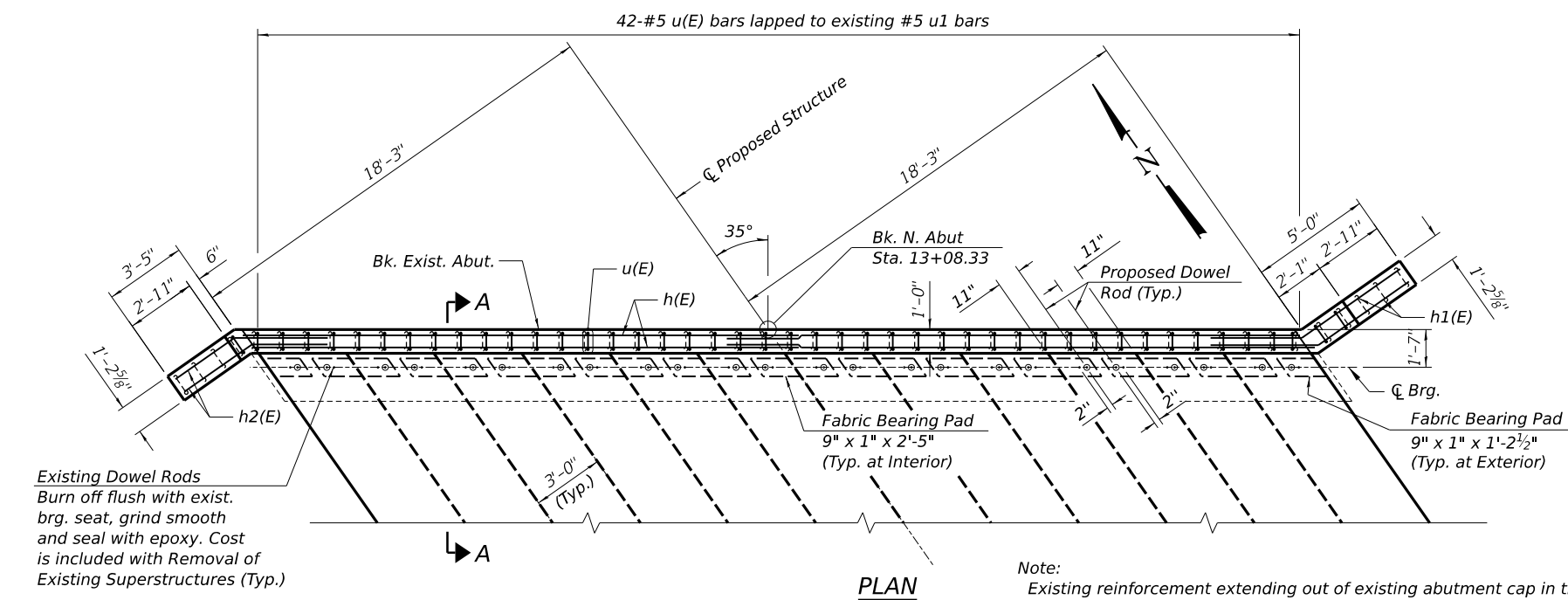
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374	21-00052-00-BR	PEORIA	38	24
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				



CONCRETE REMOVAL ELEVATION
 (Looking North)
 (Dimensions are at Rt. L's)

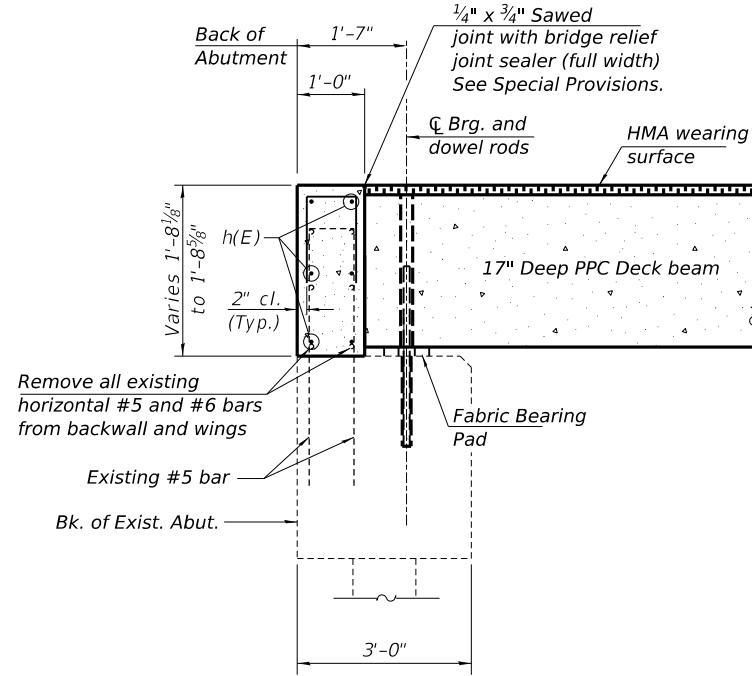


ELEVATION
 (Looking North)
 (Dimensions are at Rt. L's)

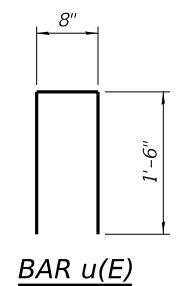


PLAN

Note:
 Existing reinforcement extending out of existing abutment cap in the backwall shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
 Existing reinforcement extending out of existing abutment cap that is damaged or not salvaged shall be replaced with either drilled or epoxy grouted bars. Bars epoxy grouted shall have an embedment sufficient to develop 1.25 times the capacity of the reinforcement bar.
 Cast backwall and top of wingwalls after beams have been erected.

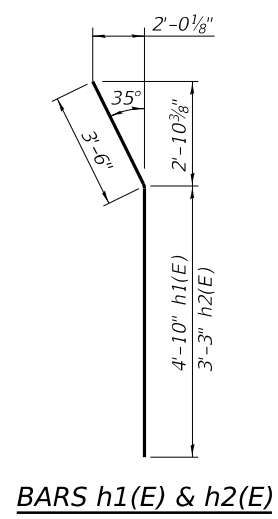


SECTION A-A
 (Dimensions are at right L's)



BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
h(E)	12	#5	24'-1"	—	
h1(E)	6	#5	8'-4"	—	
h2(E)	6	#5	6'-9"	—	
u(E)	45	#5	3'-8"	U	
Concrete Removal				Cu. Yd.	2.7
Reinforcement Bars, Epoxy Coated				Pound	520
Concrete Structures				Cu. Yd.	3.1



BARS h1(E) & h2(E)

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DRAWN	RSJ	4/25/2023
REVIEWED	PMH	8/24/2023

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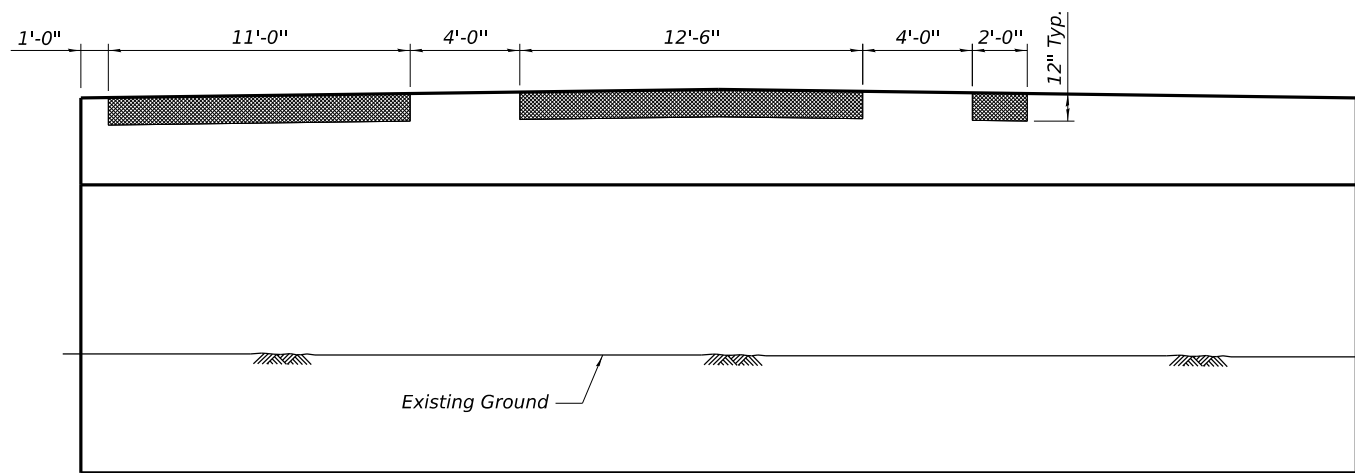
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		DATE - 8/24/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

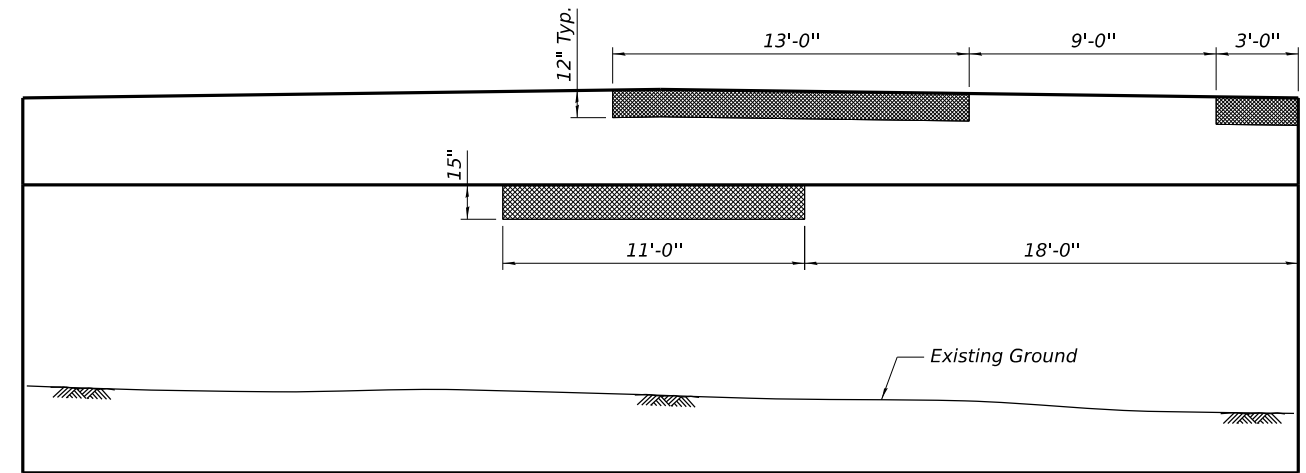
NORTH ABUTMENT DETAILS
STRUCTURE NO 072-3127

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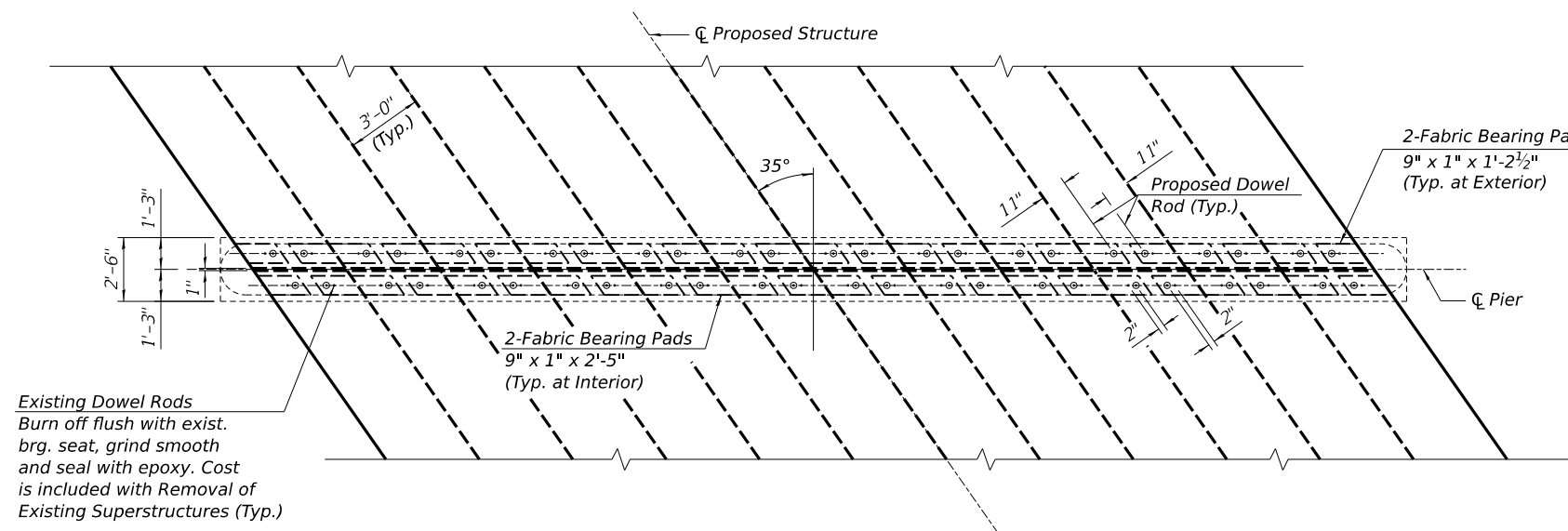
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374	21-00052-00-BR	PEORIA	38	25
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				



SOUTH PIER
 (South Face)



NORTH PIER
 (North Face)



PLAN

Structure Repair of Concrete
 (Depth equal to or less than 5 inches)

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	56

DESIGNED	CGP	4/25/2023
DRAWN	RSJ	4/25/2023
REVIEWED	PMH	8/24/2023

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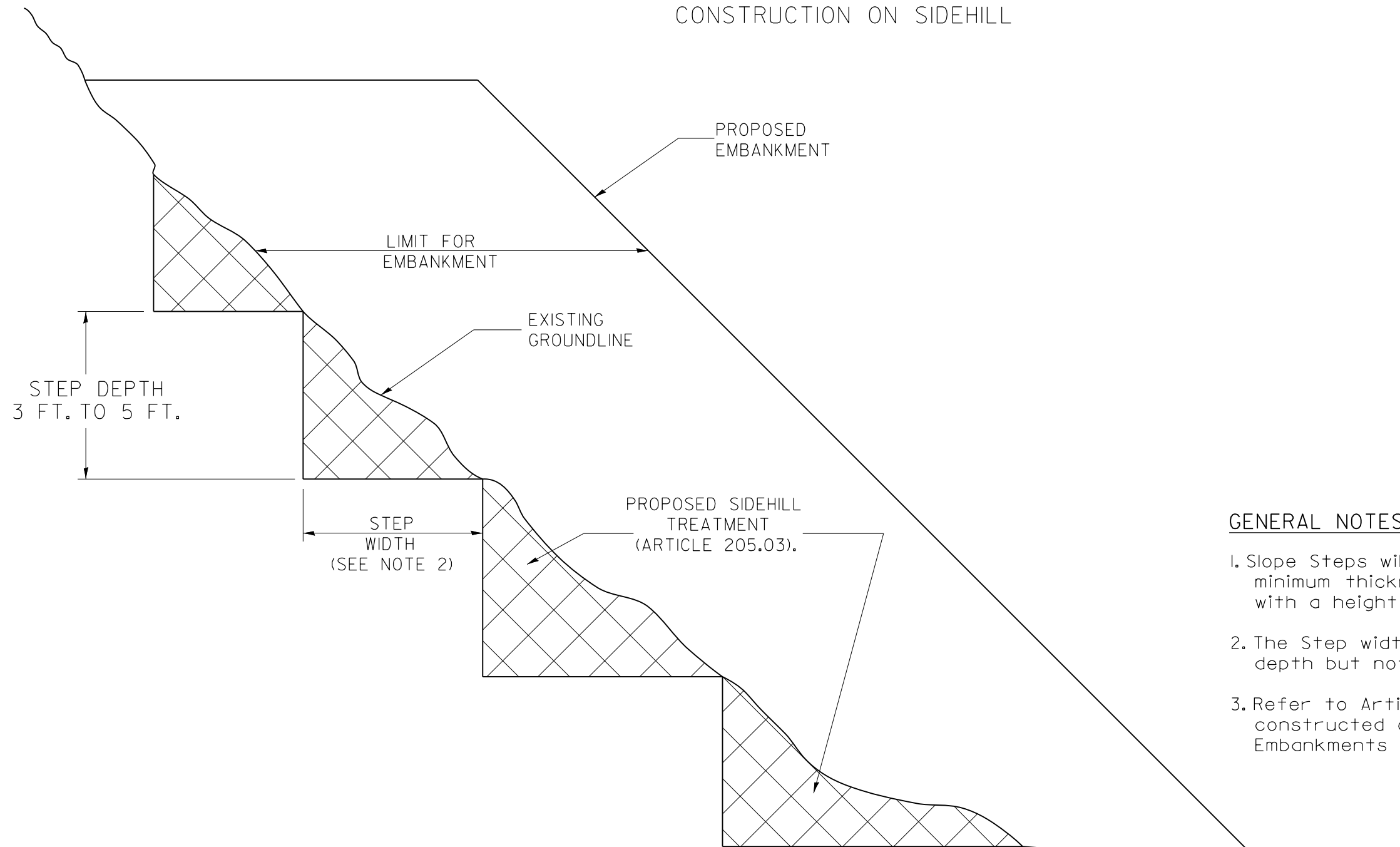
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER DETAILS			
STRUCTURE NO 072-3127			
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FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				

SLOPE STEPS DETAIL

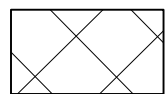
TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "sliver fills" and on all fills with a height of 10 feet or greater.
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFICATION).

All dimensions are in inches (millimeters)
unless otherwise noted.

DESIGNED	
DRAWN	
REVIEWED	

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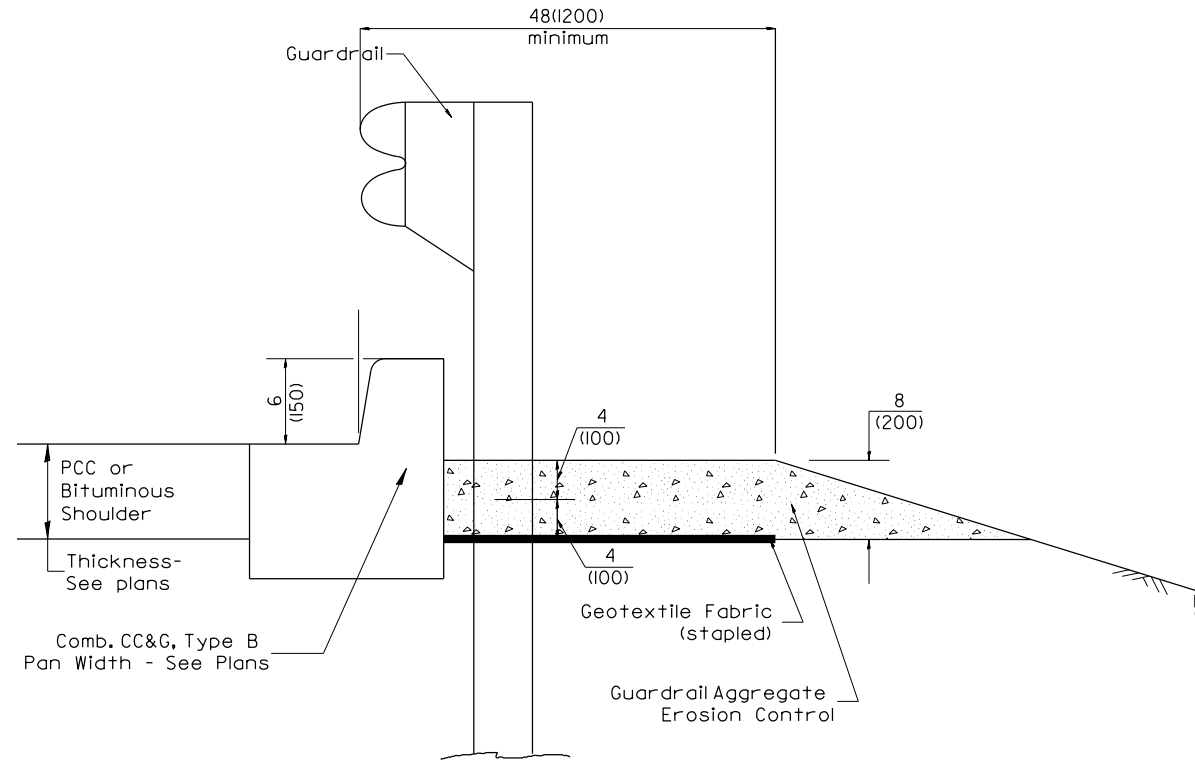
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	PLOT DATE = 12/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SLOPE STEPS DETAIL
CADD STD. 205001-D4**

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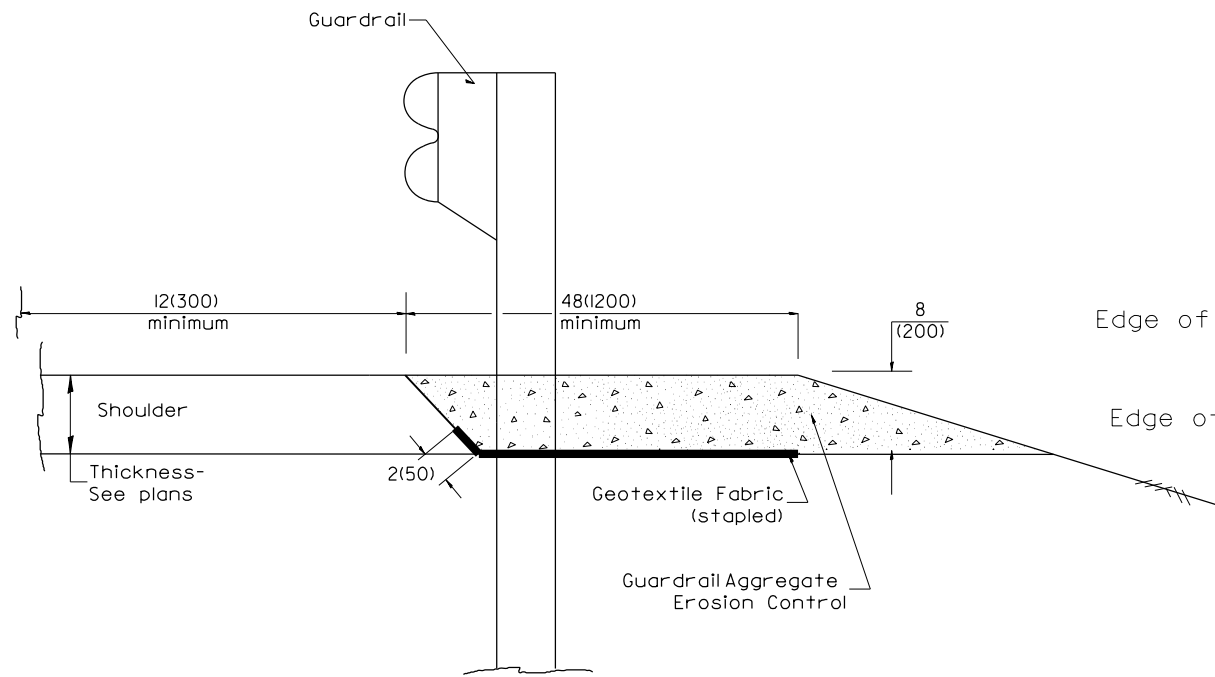
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ILLINOIS FED. AID PROJECT				



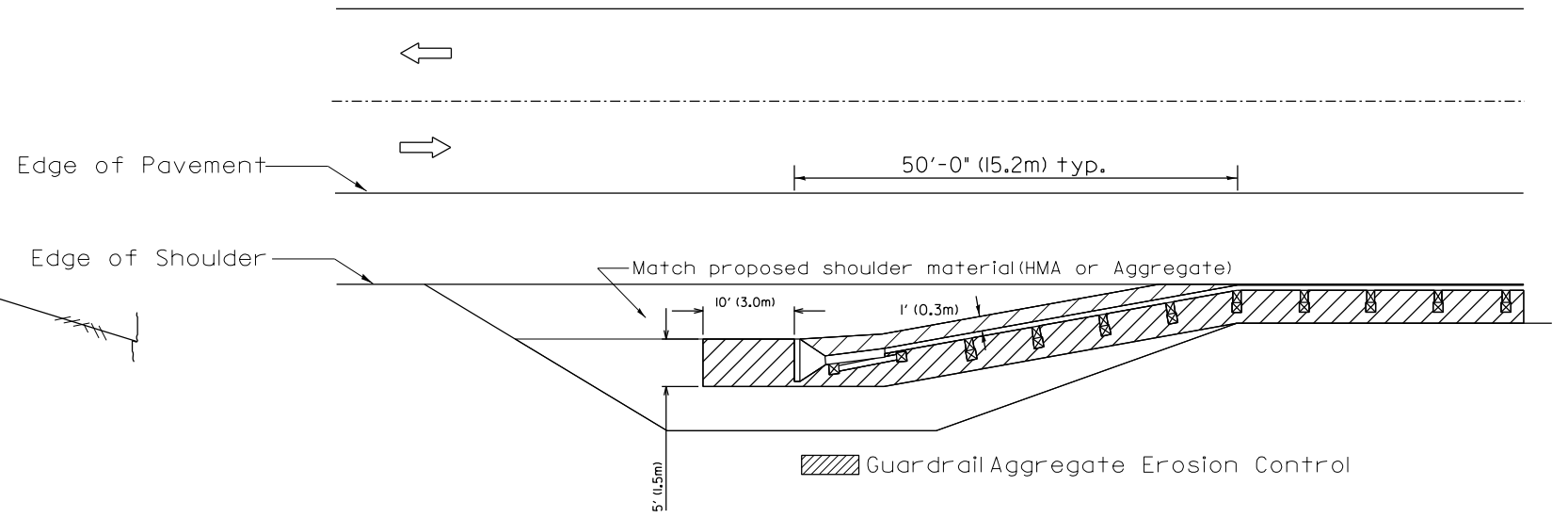
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind SteelPlate Beam Guardrailposts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrailpost installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA gradation in accordance with Article 1004.0(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



TYPICAL SECTION WITHOUT EROSION CONTROL CURB



All dimensions are in inches (millimeters) unless otherwise noted.

DESIGNED	
DRAWN	
REVIEWED	

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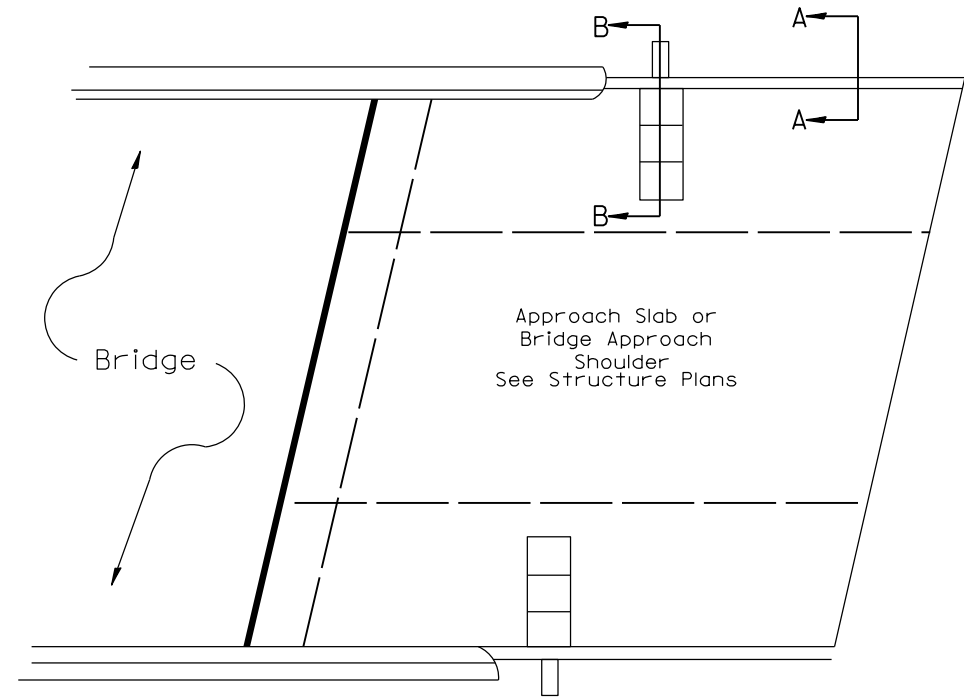
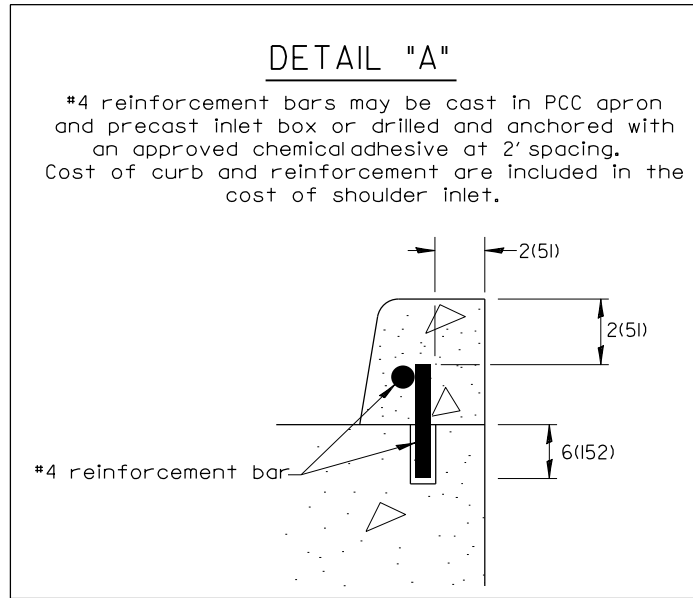
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

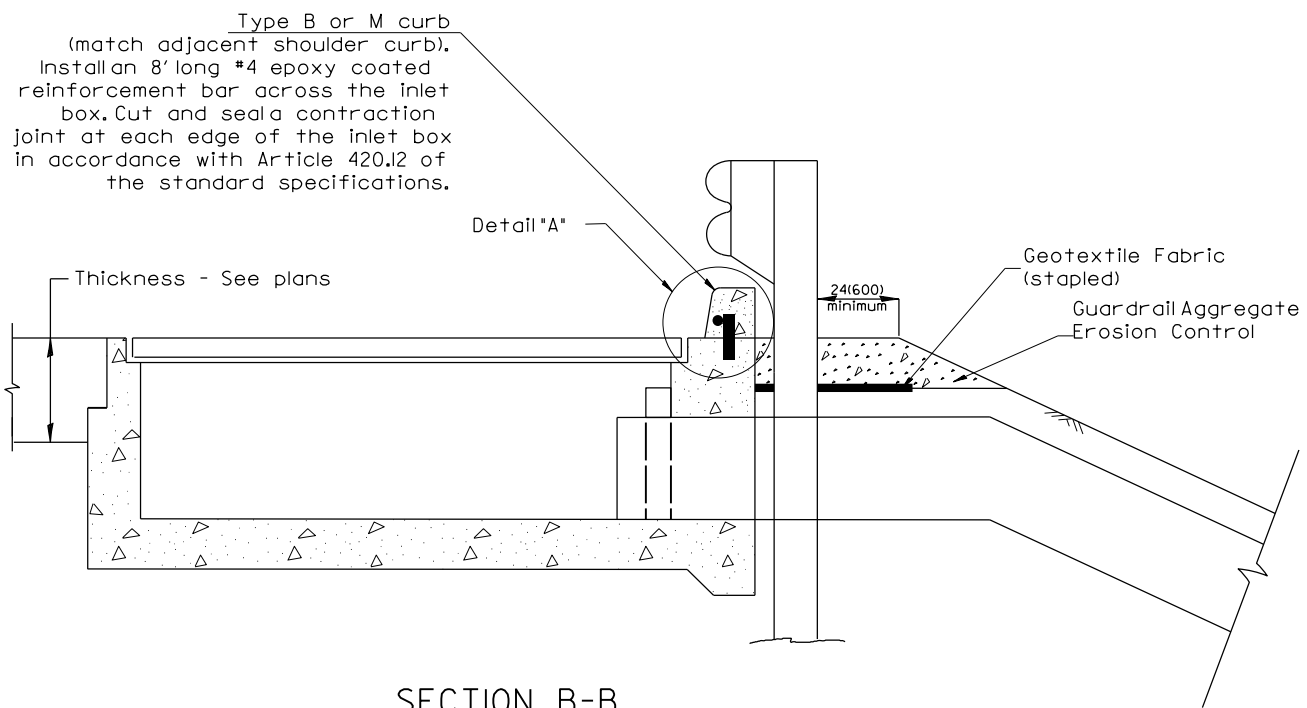
**GUARDRAIL EROSION CONTROL TREATMENTS
 CADD STD. 630101-D4**

SCALE: SHEET OF SHEETS STA. TO STA.

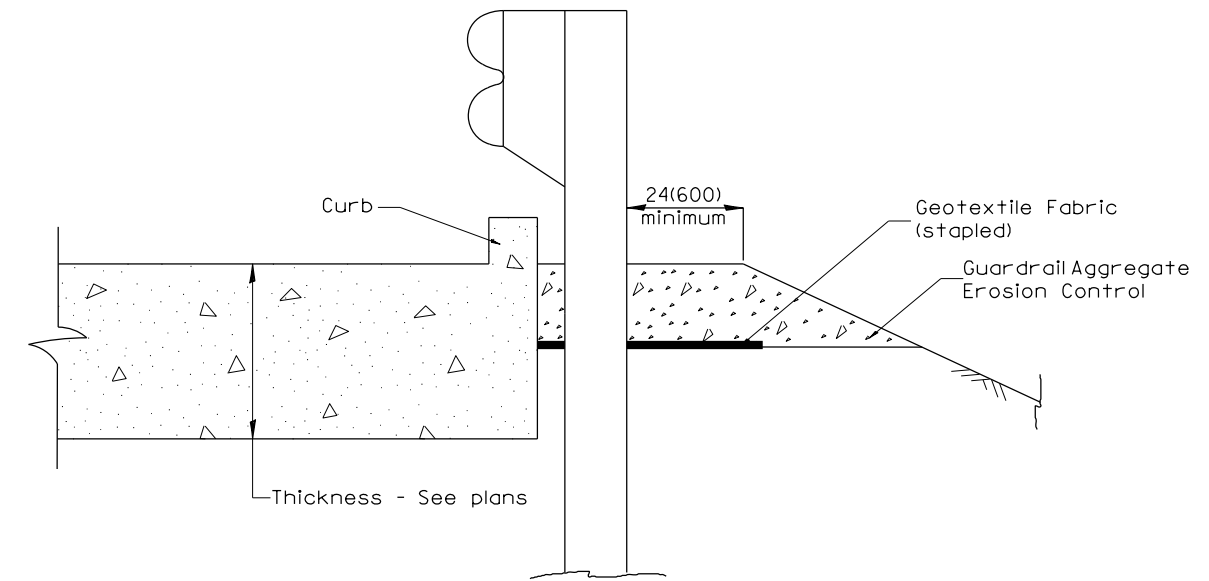
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374	21-00052-00-BR	PEORIA	38	28
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				



PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT



SECTION B-B
TYPICAL SECTION AT INLETS
TYPE E, F & G (HIGHWAY STANDARD 610001)



SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

All dimensions are in inches (millimeters) unless otherwise noted.

DESIGNED	
DRAWN	
REVIEWED	

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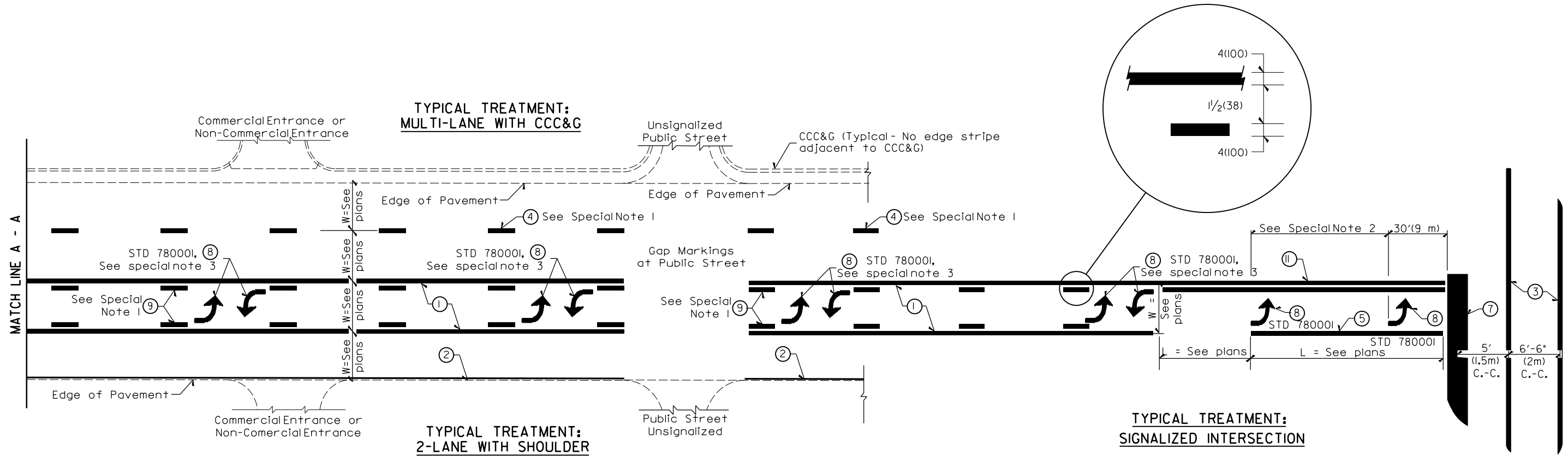
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS
CADD STD. 630101-D4

SCALE: SHEET OF SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	29
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m) min C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m) min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item 6 is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) 45°
- ⑪ 4(100) Double Solid (Yellow) 11(280) C.-C. See Table A

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 200' (61 m).
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
 - Through Arrow= 14.8 sq. ft.
 - Large Left or Right Arrow= 21.9 sq. ft.
 - 2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
 - Wrong Way Arrow= 29.5 sq. ft.
 - Railroad Crossing Symbol= 69.8 sq. ft.
 (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

DESIGNED	
DRAWN	
REVIEWED	

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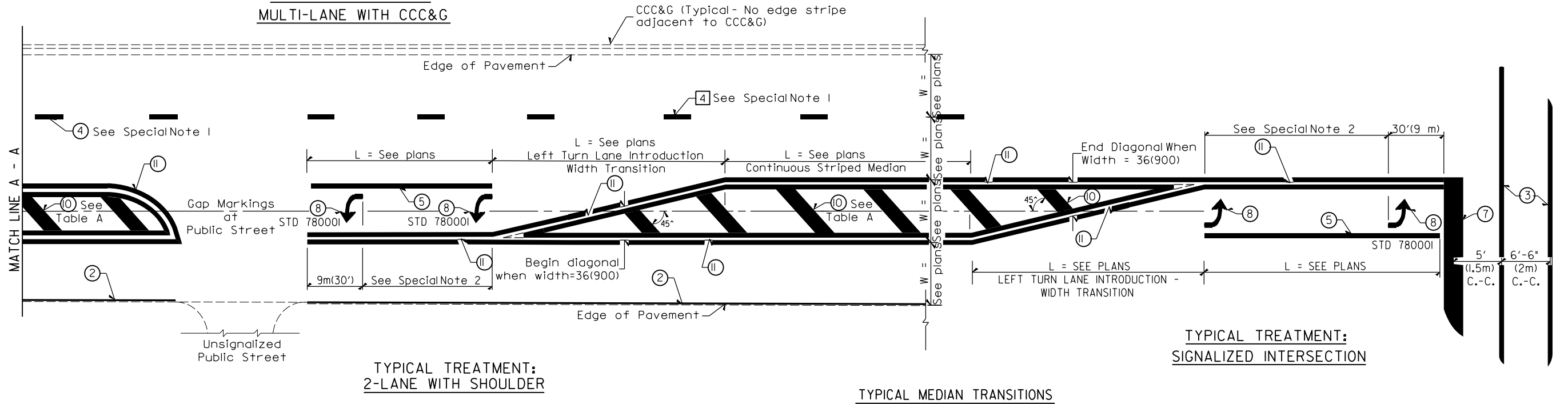
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL PAVEMENT MARKINGS
 CADD STD. 780001-D4**

SCALE: SHEET OF SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	30
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				

**TYPICAL TREATMENT:
 MULTI-LANE WITH CCC&G**

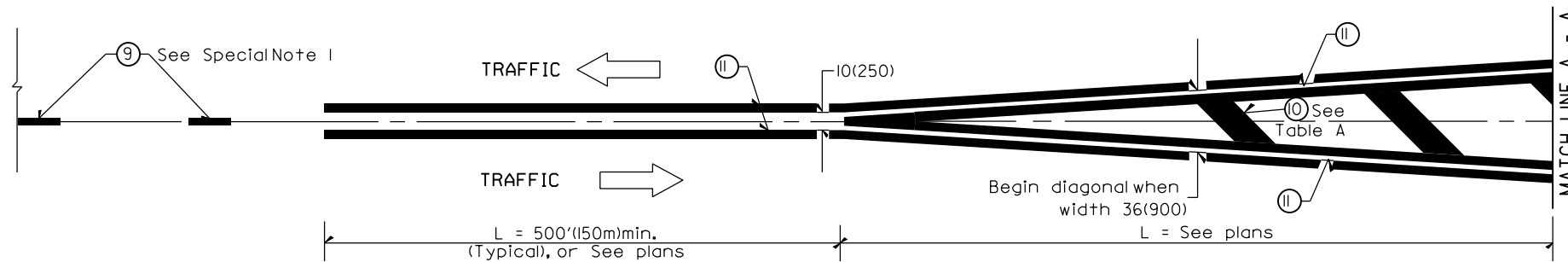


TYPICAL MEDIAN TRANSITIONS

FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

**TABLE A
 RECOMMENDED SPACING BETWEEN DIAGONAL LINES**

SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

DESIGNED	
DRAWN	
REVIEWED	

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		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL PAVEMENT MARKINGS
 CADD STD. 780001-D4**

SCALE: SHEET OF SHEETS STA. TO STA.

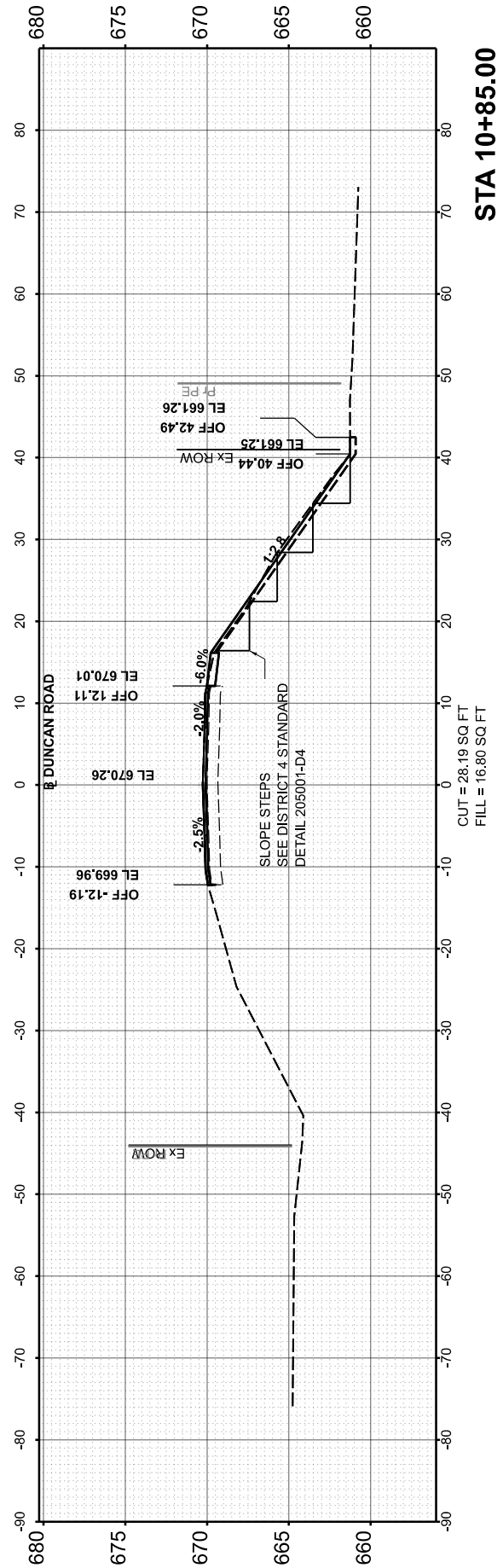
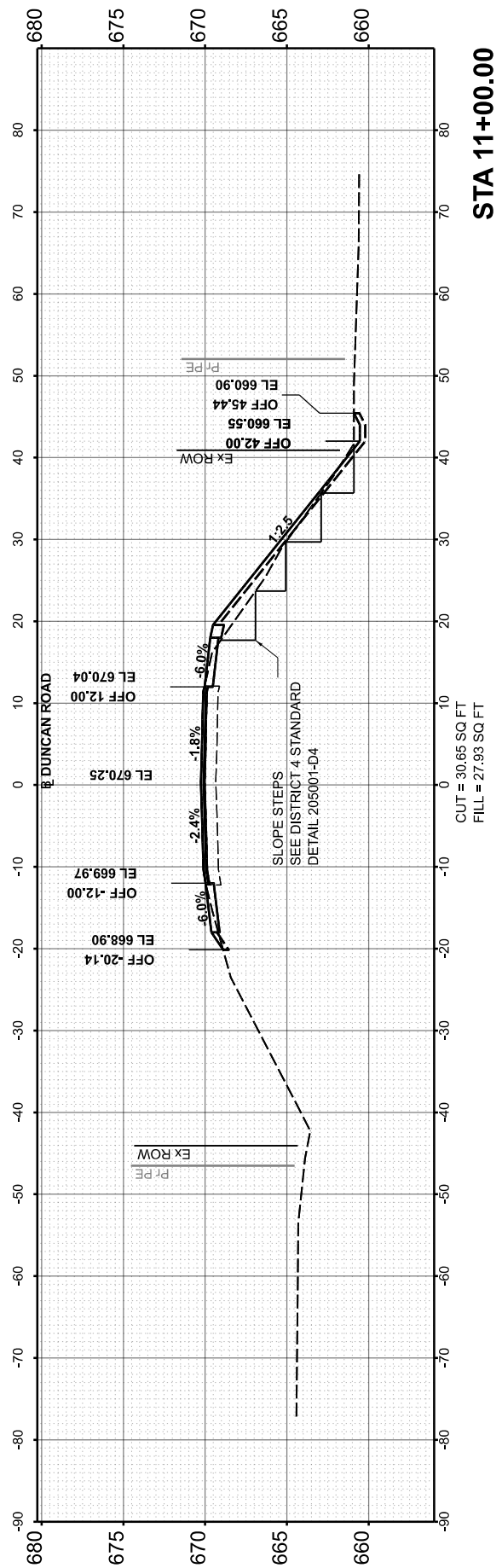
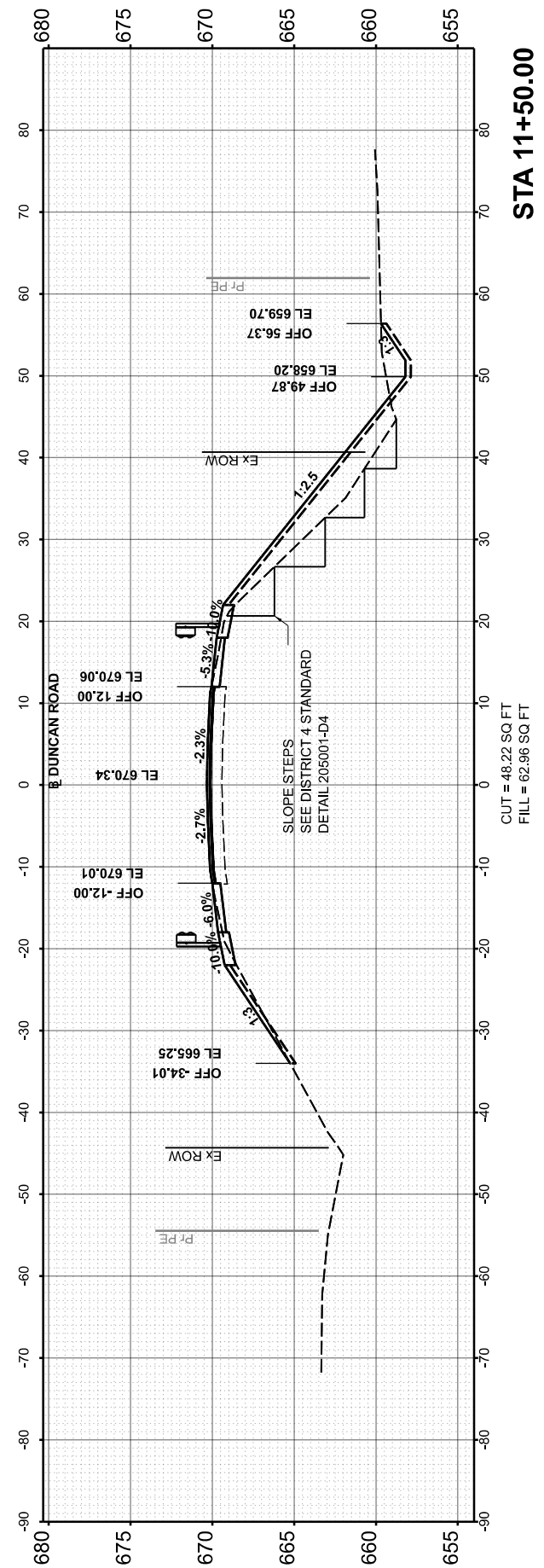
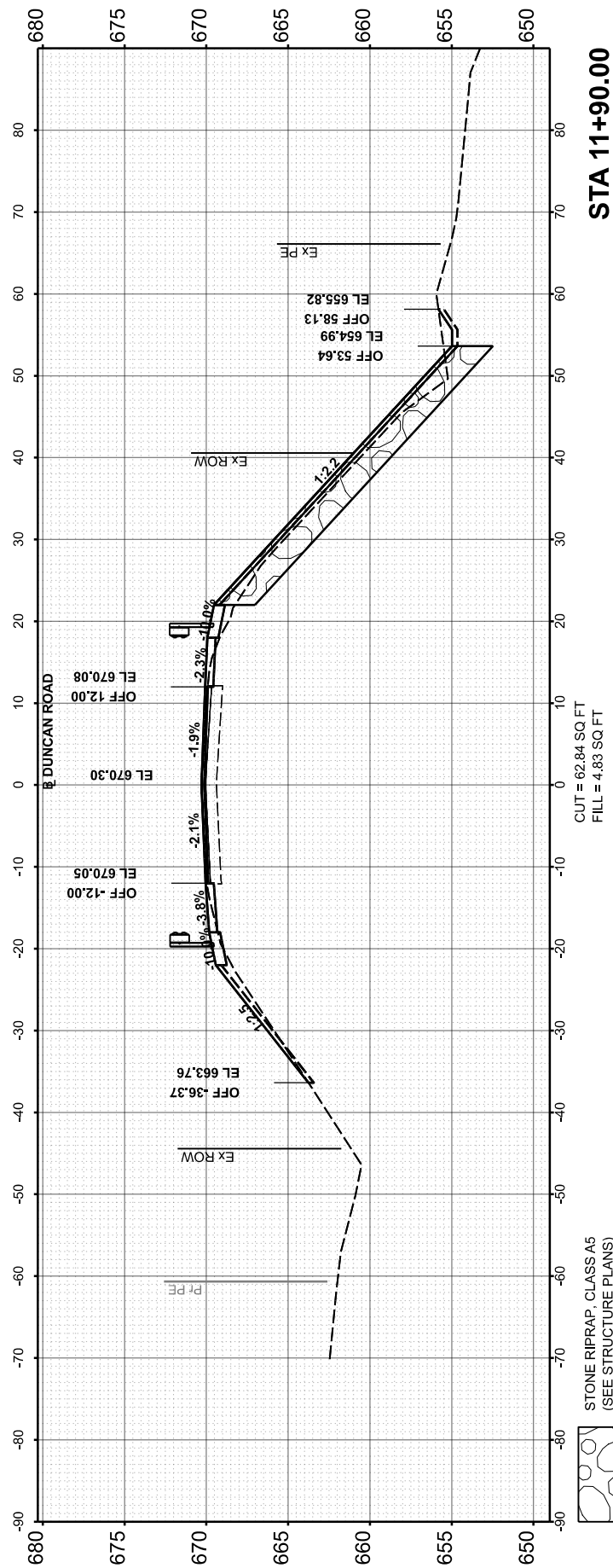
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22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

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 DRAWN - RLA 4/25/2023 12:00:00 AM
 REVIEWED - MGD 10/6/2023 12:00:00 AM
 MODEL - PAL_DUNCAN - 10+85.00-2
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Final	USER NAME - ander00846	DESIGNED - RDH	REVISED -
		DRAWN - RLA	REVISED -
	PLOT SCALE = 0.16666667 / in.	CHECKED - MGD	REVISED -
	PLOT DATE = 12/6/2023	DATE - 10/6/2023 12:00:00	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DUNCAN ROAD
 CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	32
	22L0159	CONTRACT NO.	89836	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

DESIGNED - RDH 4/25/2023 12:00:00 AM
 DRAWN - RLA 4/25/2023 12:00:00 AM
 REVIEWED - MGD 10/6/2023 12:00:00 AM
 MODEL - PAL_DUNCAN - 11+99.39-2
 FILE NAME - R220822\210159\CADD\RoadSheet\hsc01.dgn

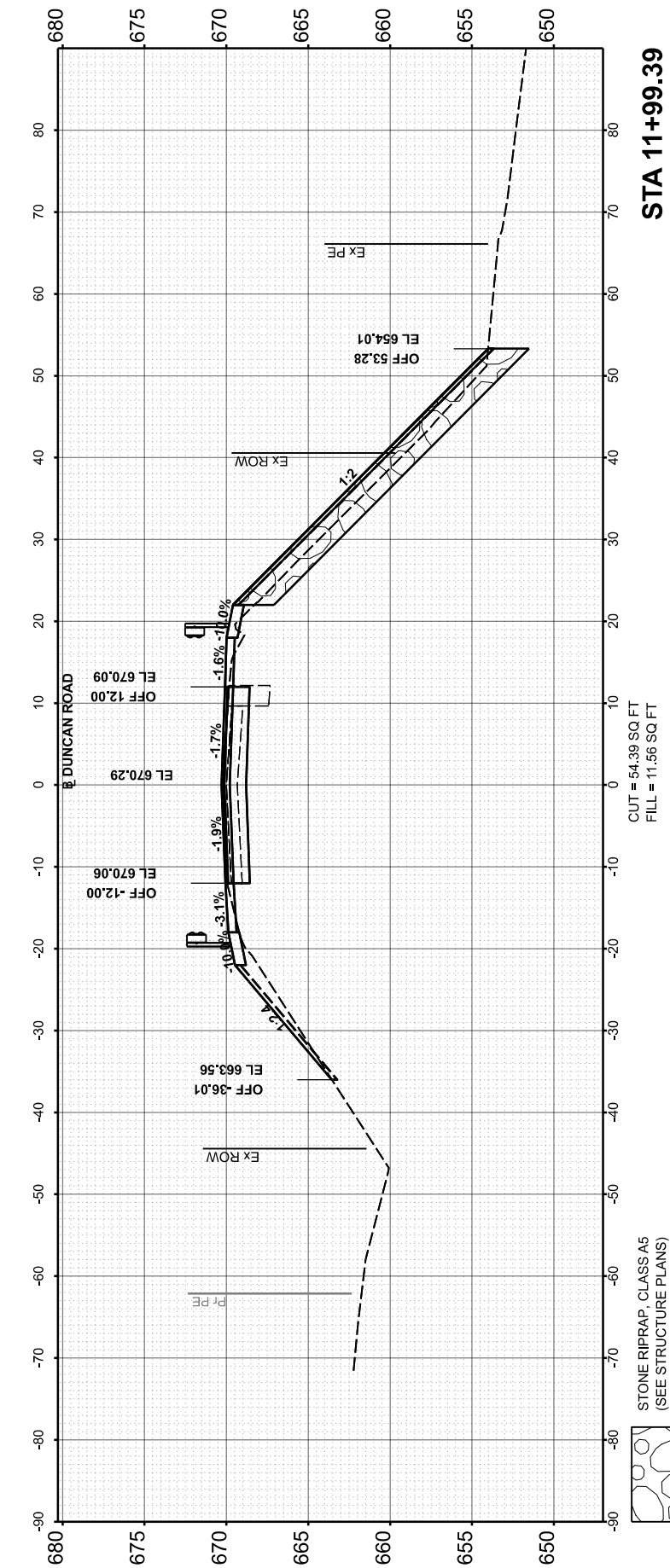
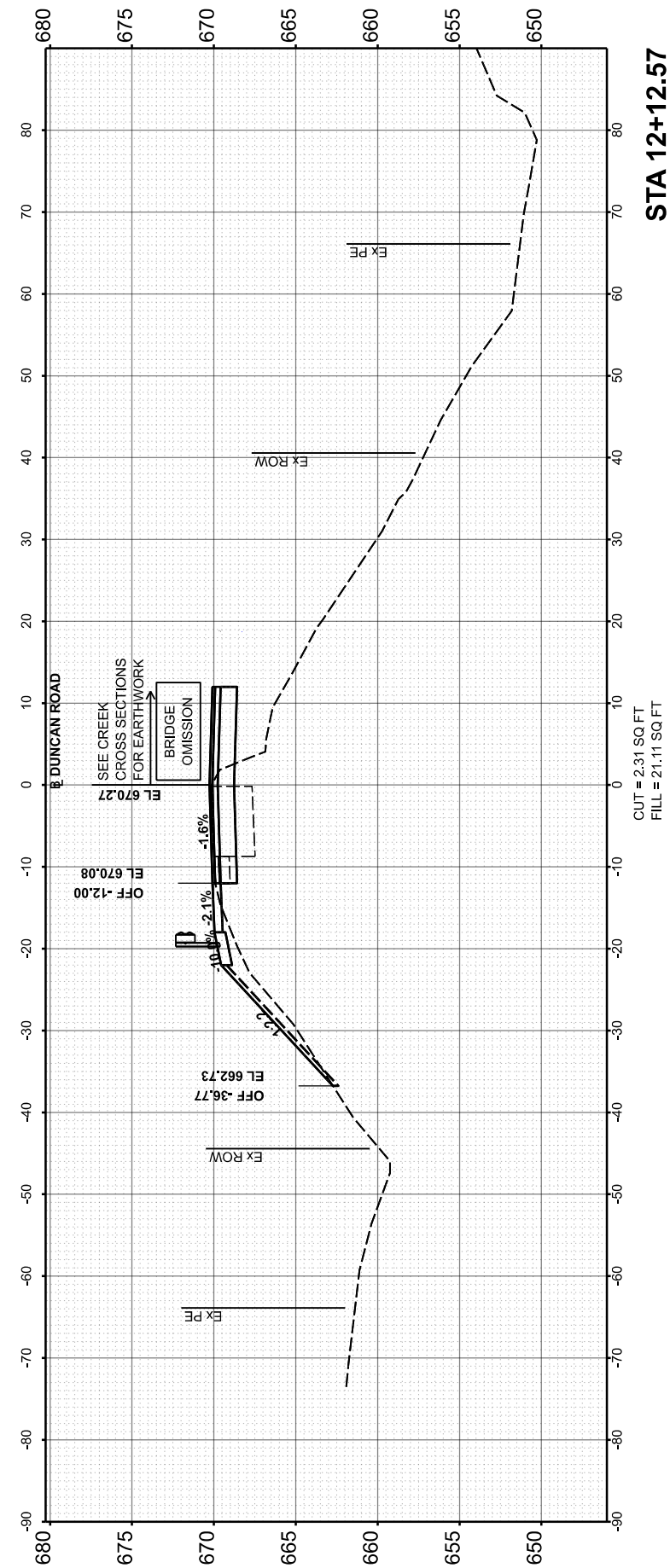
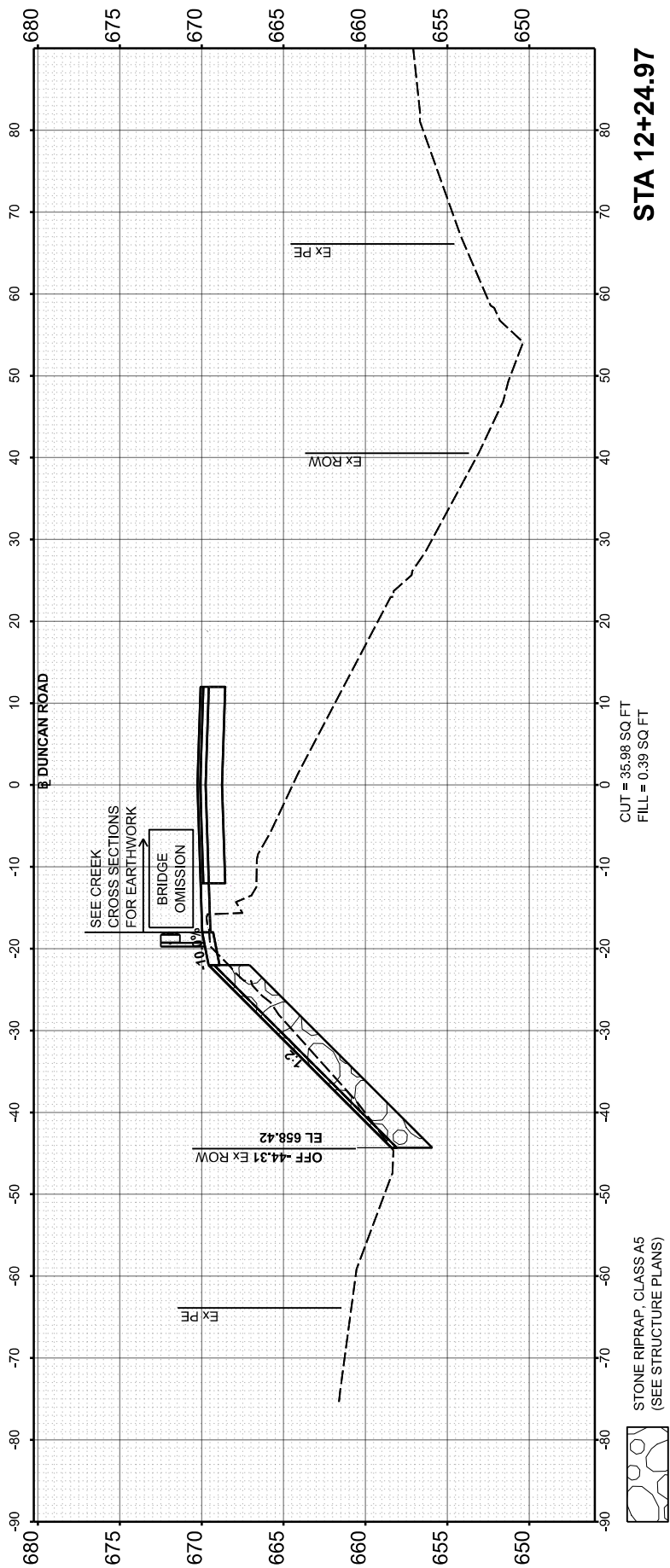
Final

USER NAME	ander00846	DESIGNED -	RDH	REVISED -	
PLOT SCALE	= 0.16666667" / 1'	DRAWN -	RLA	REVISED -	
PLOT DATE	= 12/6/2023	CHECKED -	MGD	REVISED -	
		DATE -	10/6/2023 12:00:00	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DUNCAN ROAD CROSS SECTIONS			
SCALE:	SHEET	OF SHEETS	STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	33
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				

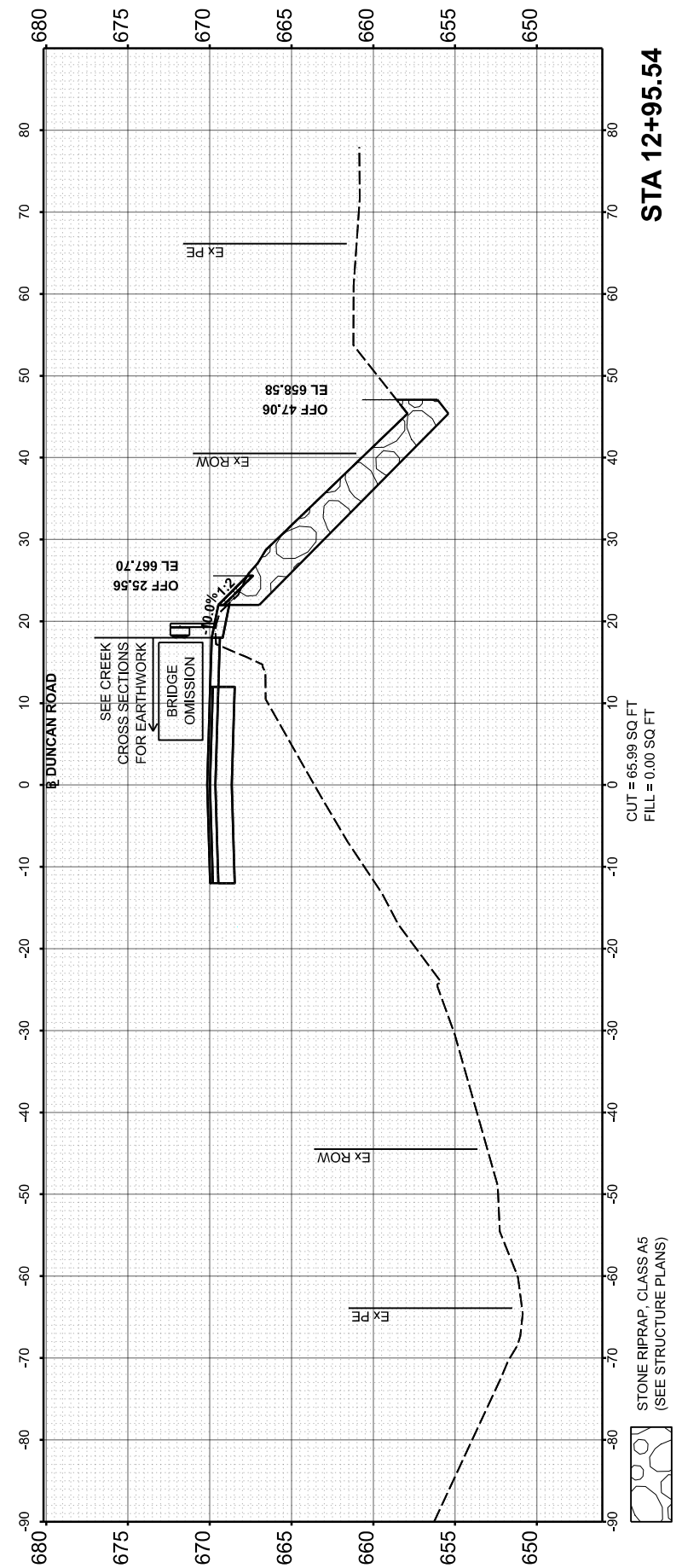
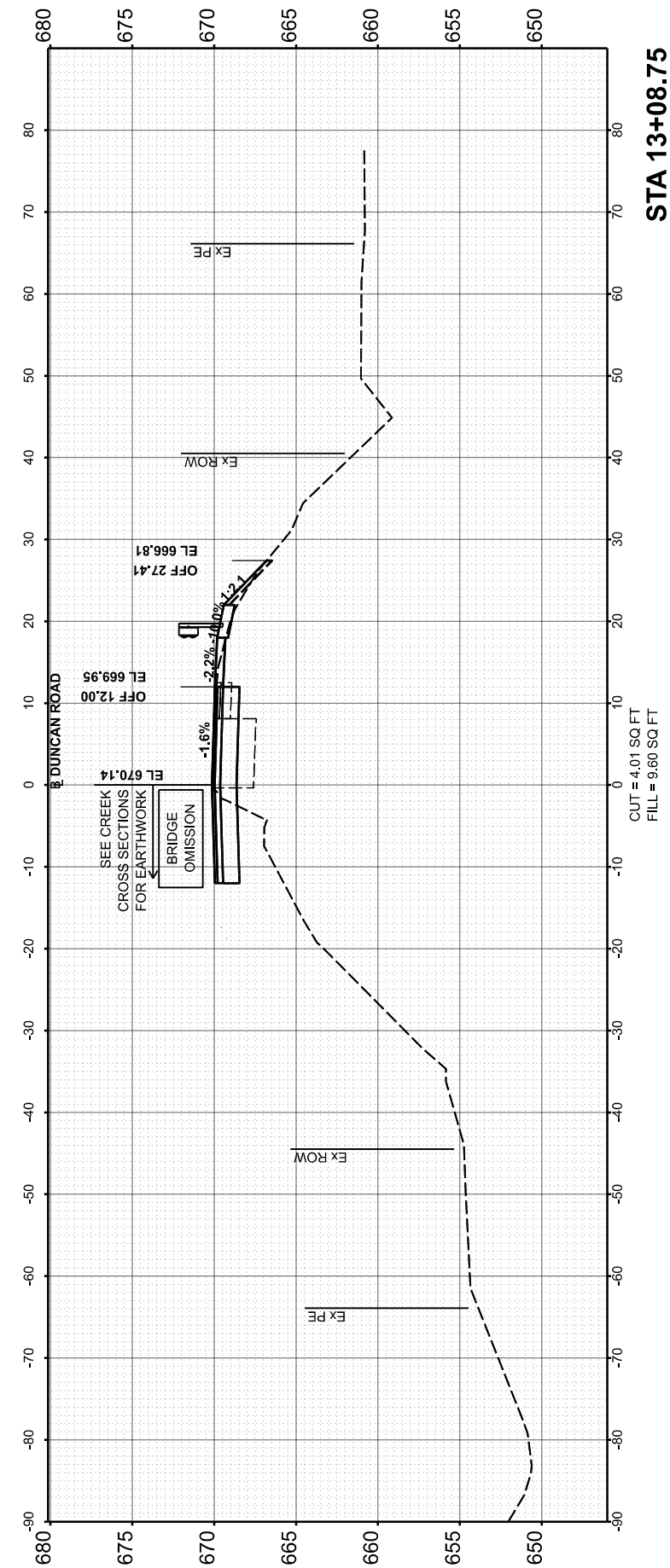
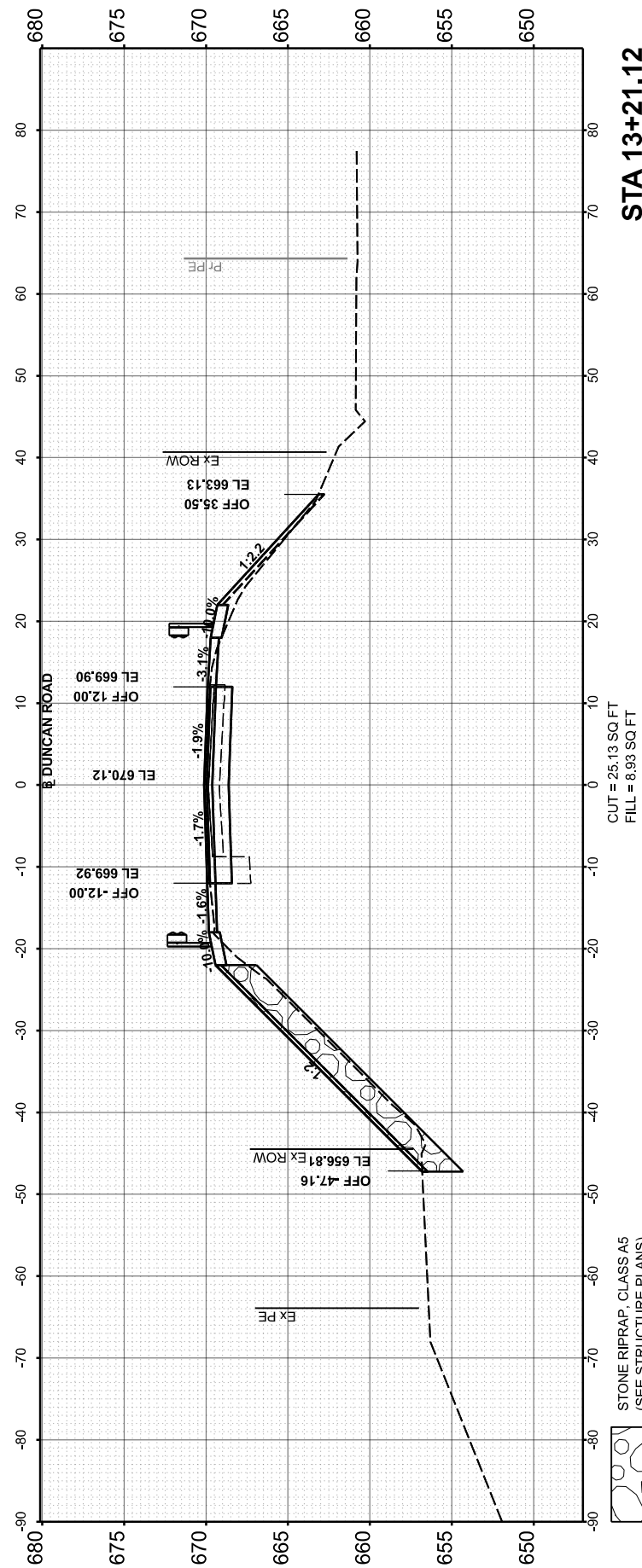


FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

DESIGNED - RDH 4/25/2023 12:00:00 AM
 DRAWN - RLA 4/25/2023 12:00:00 AM
 REVIEWED - MGD 10/6/2023 12:00:00 AM
 MODEL - PAL_DUNCAN - 12+95.54-2
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Final

USER NAME - andr00846	DESIGNED - RDH	REVISED -
PLOT SCALE = 0.16666667" / 1'	DRAWN - RLA	REVISED -
PLOT DATE = 12/6/2023	CHECKED - MGD	REVISED -
	DATE - 10/6/2023 12:00:00	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DUNCAN ROAD
 CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA.

FAS RTE. 374	SECTION 21-00052-00-BR 22L0159	COUNTY PEORIA	TOTAL SHEETS 38	SHEET NO. 34
ILLINOIS		FED. AID PROJECT		

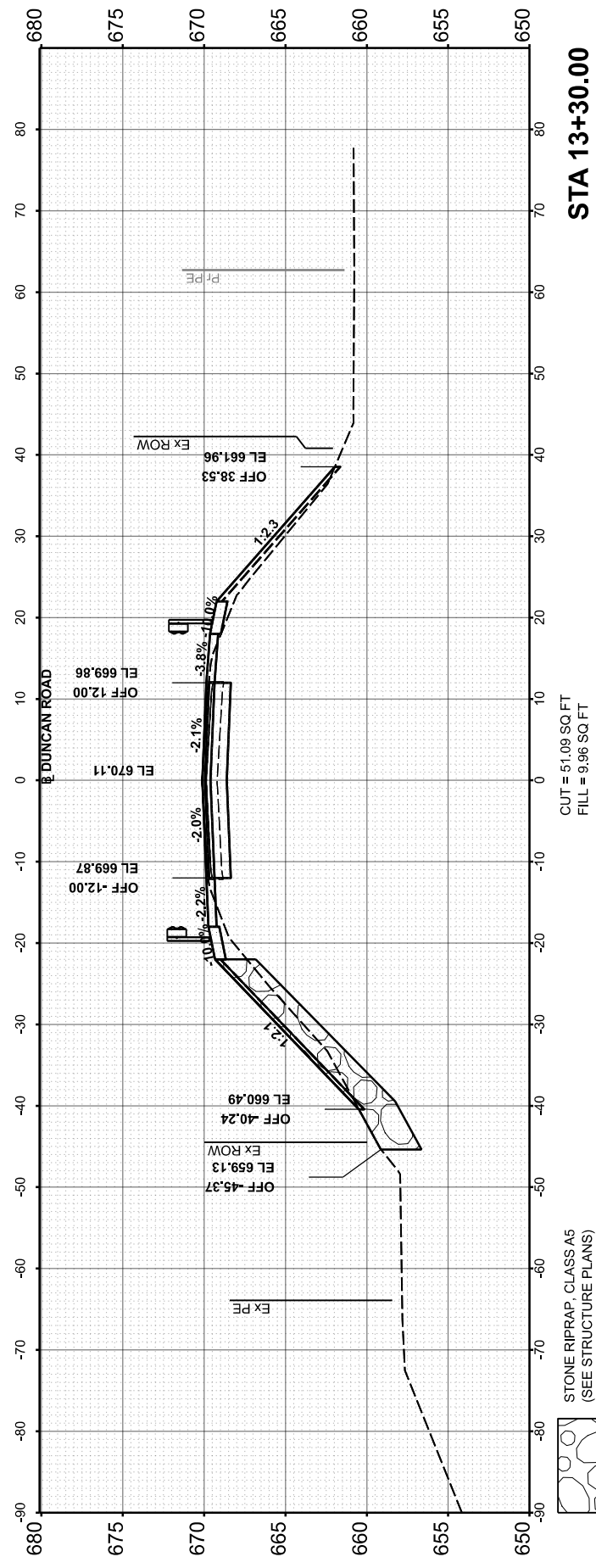
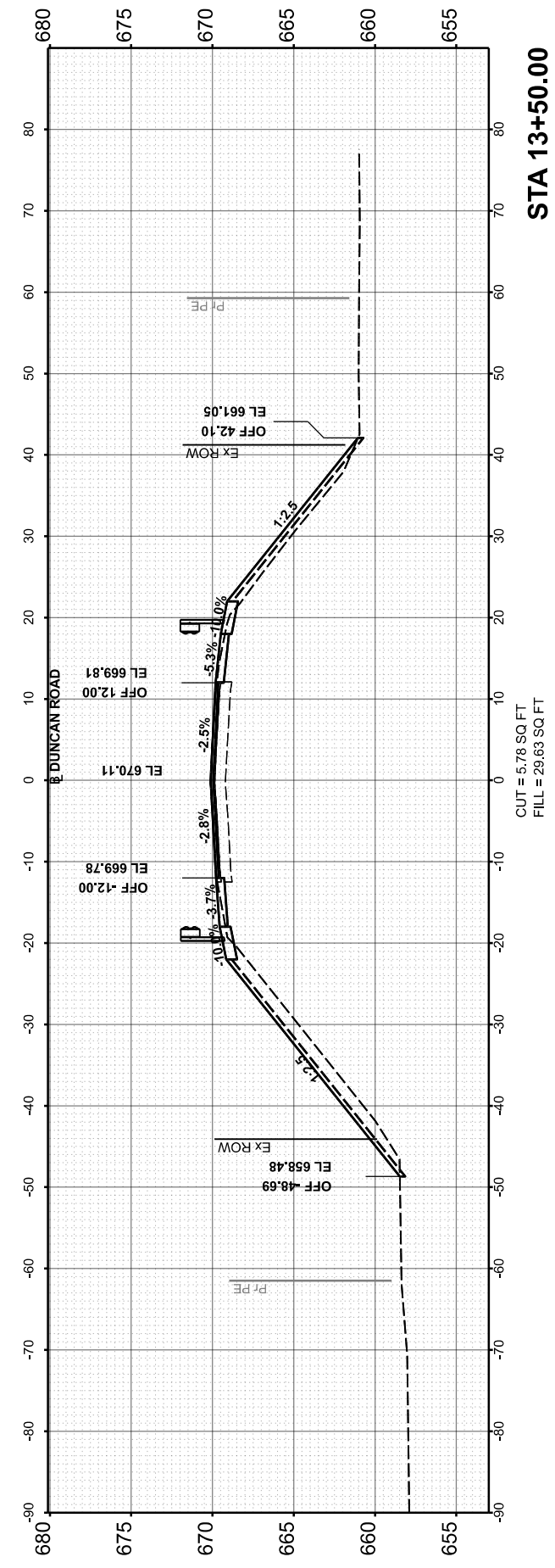
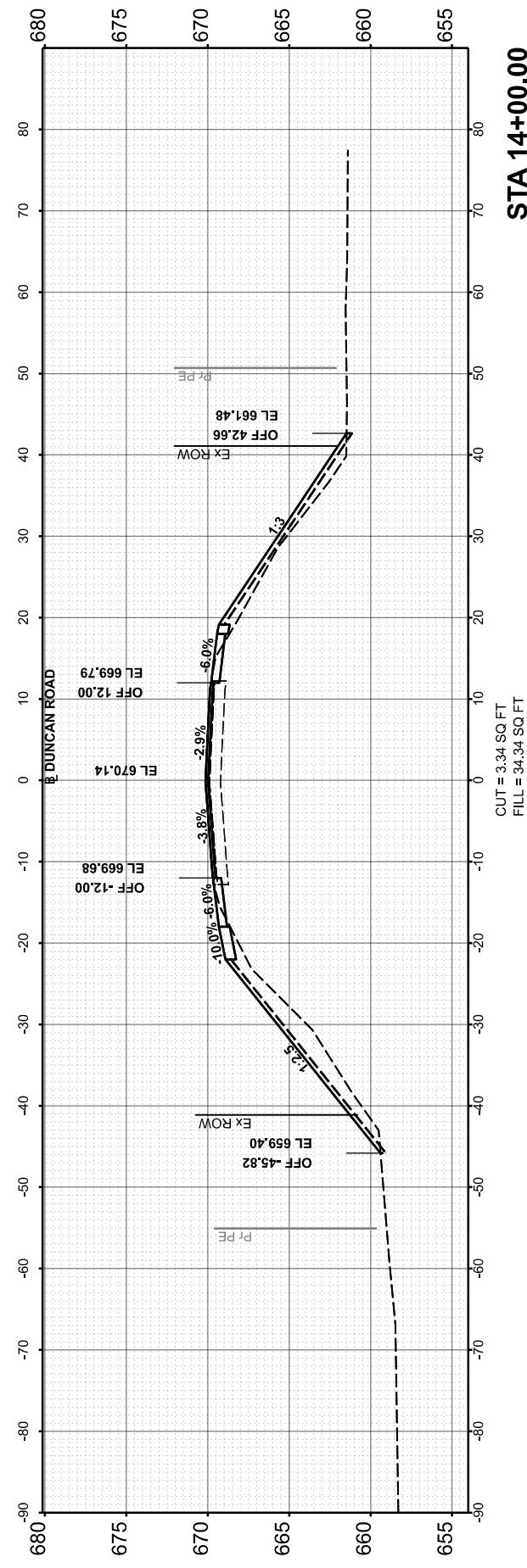
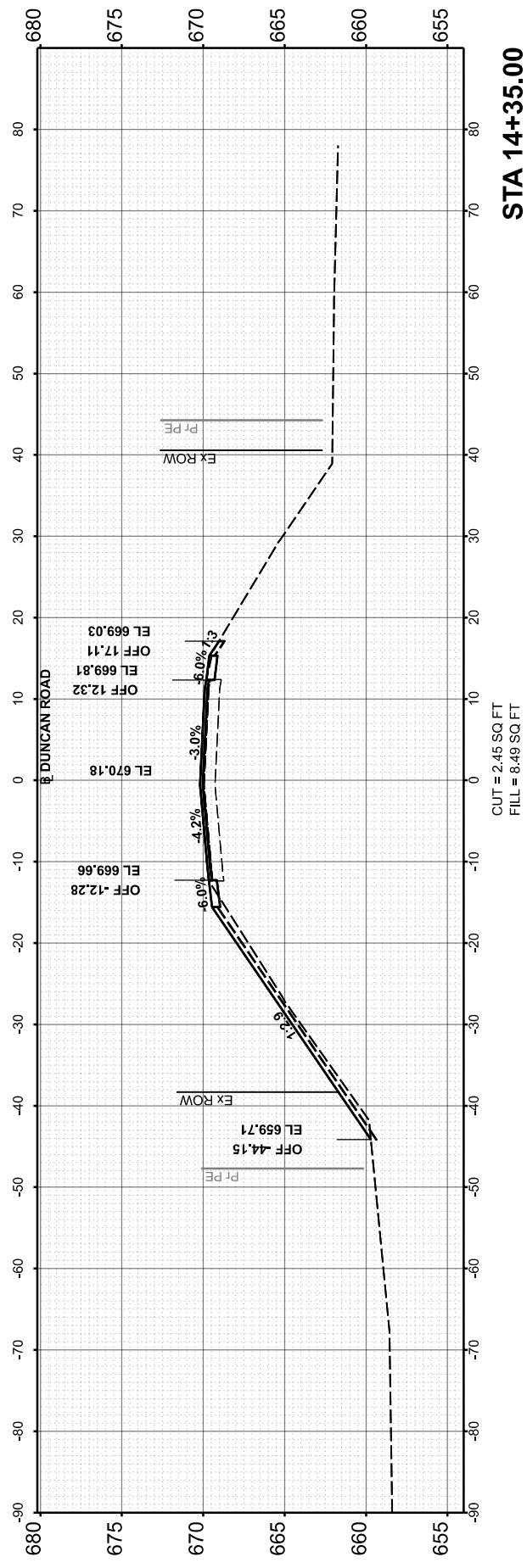
CONTRACT NO. 89836

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



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

DESIGNED: RDH 4/25/2023 12:00:00 AM
 DRAWN: RLA 4/25/2023 12:00:00 AM
 REVIEWED: MGD 10/6/2023 12:00:00 AM
 MODEL: PAL_DUNCAN - 13+30.00-2
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Final

USER NAME	ander00846	DESIGNED	RDH	REVISED	-
		DRAWN	RLA	REVISED	-
		CHECKED	MGD	REVISED	-
		DATE	10/6/2023 12:00:00	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DUNCAN ROAD
 CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	35
22L0159		CONTRACT NO.	89836	
ILLINOIS FED. AID PROJECT				

STONE RIPRAP, CLASS A5
 (SEE STRUCTURE PLANS)

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

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

DESIGNED RDH 4/25/2023 12:00:00 AM
 DRAWN RLA 4/25/2023 12:00:00 AM
 REVIEWED MGD 10/6/2023 12:00:00 AM
 MODEL PAL_DUNCAN - 14+40.00-2
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Final

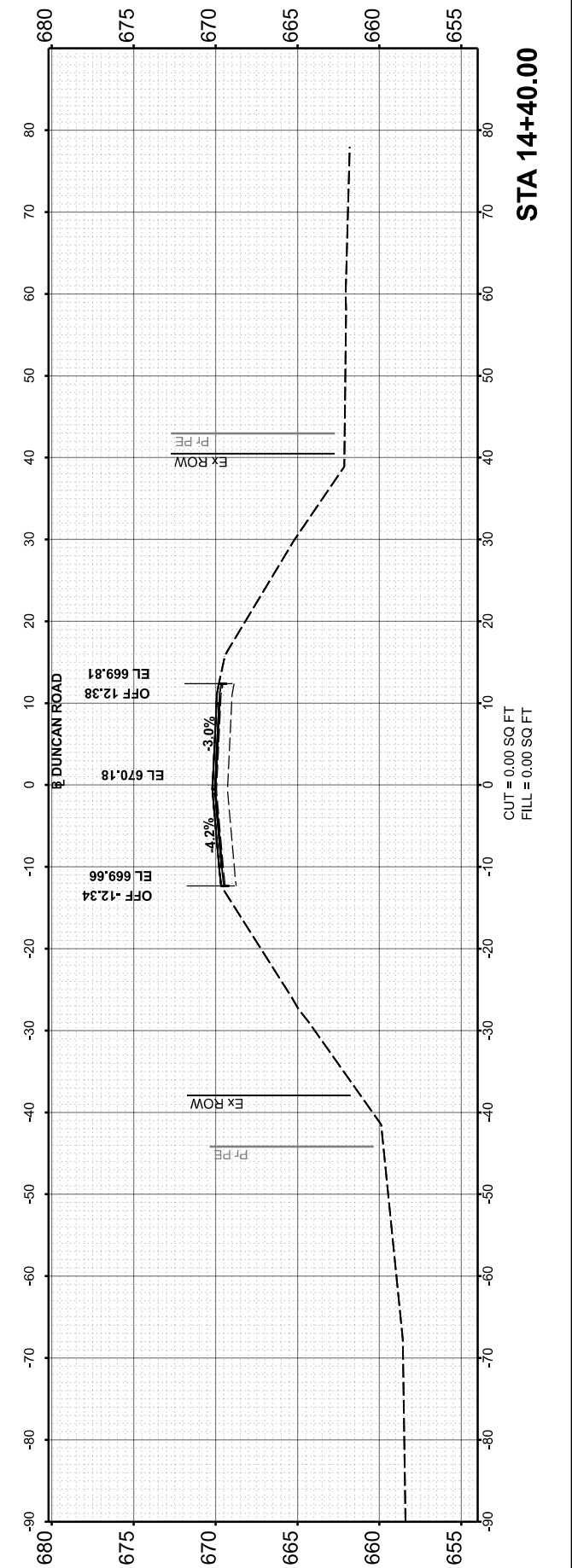
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PLOT SCALE = 0.16666667 / in.	DRAWN - RLA	REVISED -
PLOT DATE = 12/6/2023	CHECKED - MGD	REVISED -
	DATE - 10/6/2023 12:00:00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DUNCAN ROAD
CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	36
22L0159		CONTRACT NO. 89836		
ILLINOIS FED. AID PROJECT				



CUT = 0.00 SQ FT
FILL = 0.00 SQ FT

STA 14+40.00

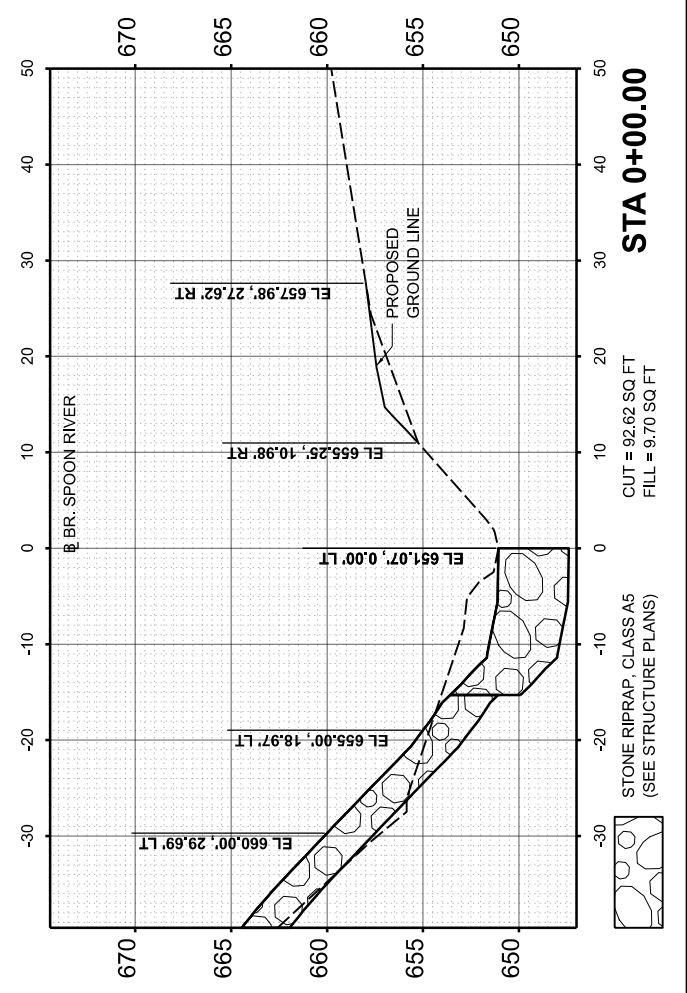
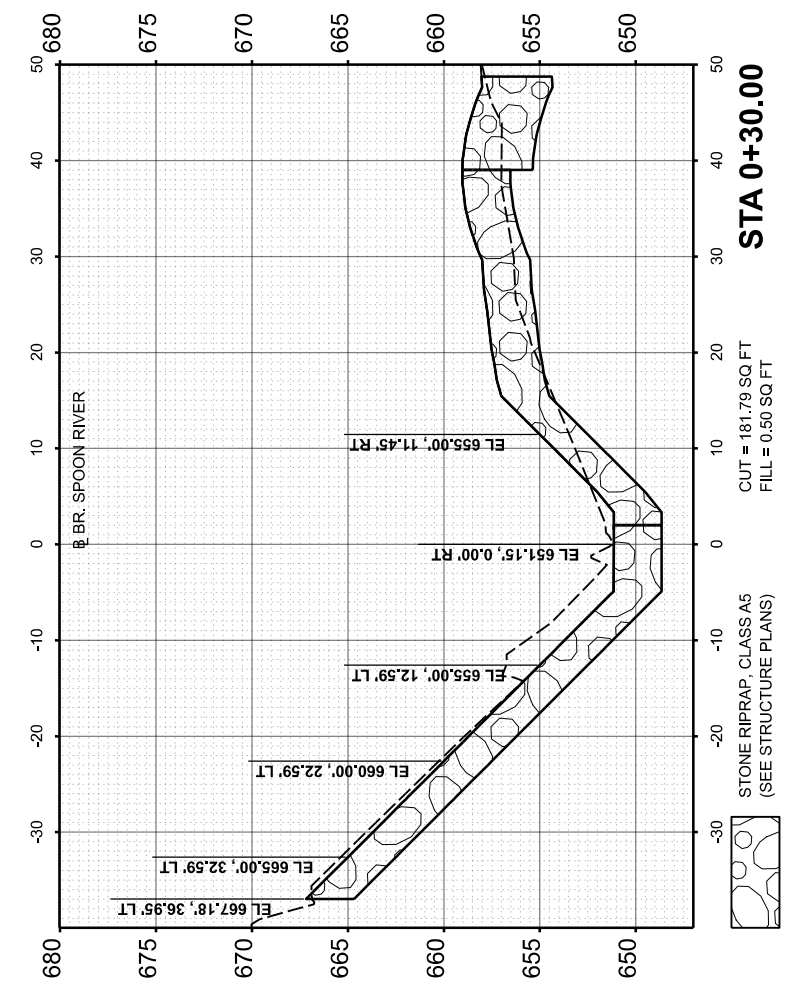
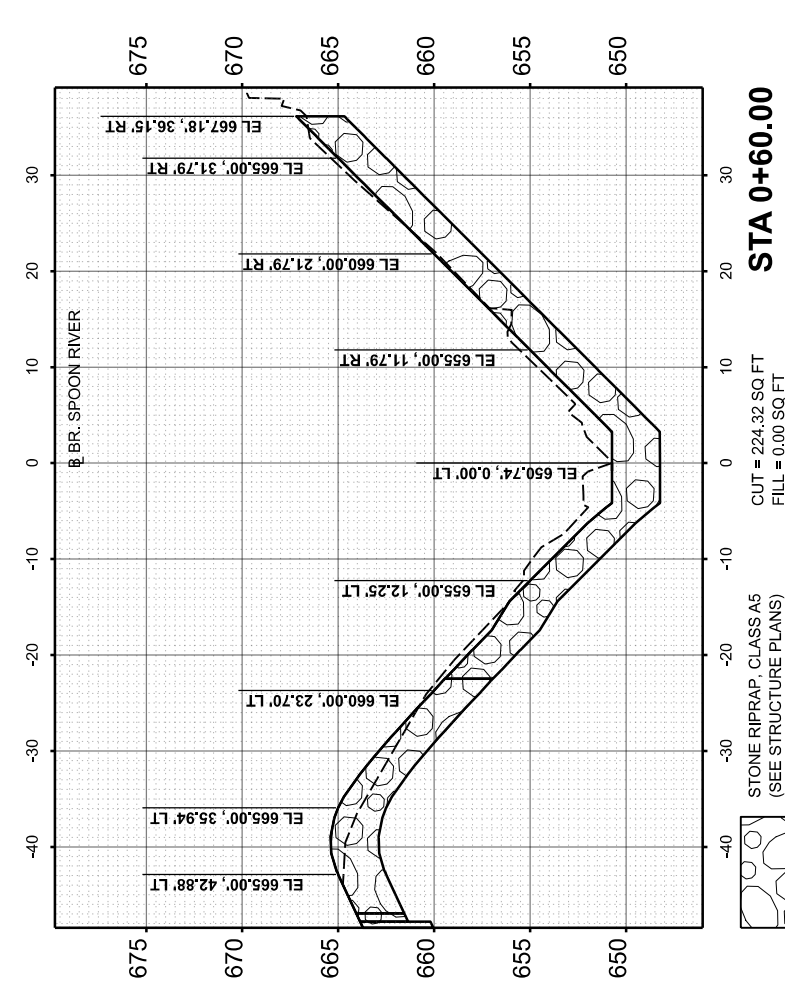
FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



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

DESIGNED - RDH 4/25/2023 12:00:00 AM
 DRAWN - RLA 4/25/2023 12:00:00 AM
 REVIEWED - MGD 10/6/2023 12:00:00 AM
 MODEL - PAL_Creek - 0-00-00-01
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SECTIONS ARE FOR INFORMATIONAL PURPOSES ONLY.
 SEE CREEK PLAN AND PROFILE SHEET FOR GRADING.



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DUNCAN ROAD
 CREEK CROSS SECTIONS

USER NAME	ander00846	DESIGNED	- RDH	REVISED	-
		DRAWN	- RLA	REVISED	-
PLOT SCALE	= 0.16666667' / in.	CHECKED	- MGD	REVISED	-
PLOT DATE	= 12/6/2023	DATE	- 10/6/2023 12:00:00 AM	REVISED	-

SCALE:	SHEET	OF	SHEETS	STA.
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FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	37
	22L0159		CONTRACT NO.	89836
ILLINOIS FED. AID PROJECT				

Final

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

DESIGNED - RDH 4/25/2023 12:00:00 AM
 DRAWN - RLA 4/25/2023 12:00:00 AM
 REVIEWED - MGD 10/6/2023 12:00:00 AM
 MODEL - PAL_Creek - 0-99000
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Final

USER NAME - andr00846	DESIGNED - RDH	REVISED -
PLOT SCALE = 0.16666667 / in.	DRAWN - RLA	REVISED -
PLOT DATE = 12/6/2023	CHECKED - MGD	REVISED -
	DATE - 10/6/2023 12:00:00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.

DUNCAN ROAD
CREEK CROSS SECTIONS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	21-00052-00-BR	PEORIA	38	38
22L0159		CONTRACT NO. 89836		
		ILLINOIS FED. AID PROJECT		

SECTIONS ARE FOR INFORMATIONAL PURPOSES ONLY.
SEE CREEK PLAN AND PROFILE SHEET FOR GRADING.

