

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 STANDARDS LIST & GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5 SCHEDULES OF QUANTITIES
- 6-8 PLAN SHEETS
- 9-15 STRUCTURE PLANS
- 16 DETAILS
- 17-28 CROSS SECTIONS

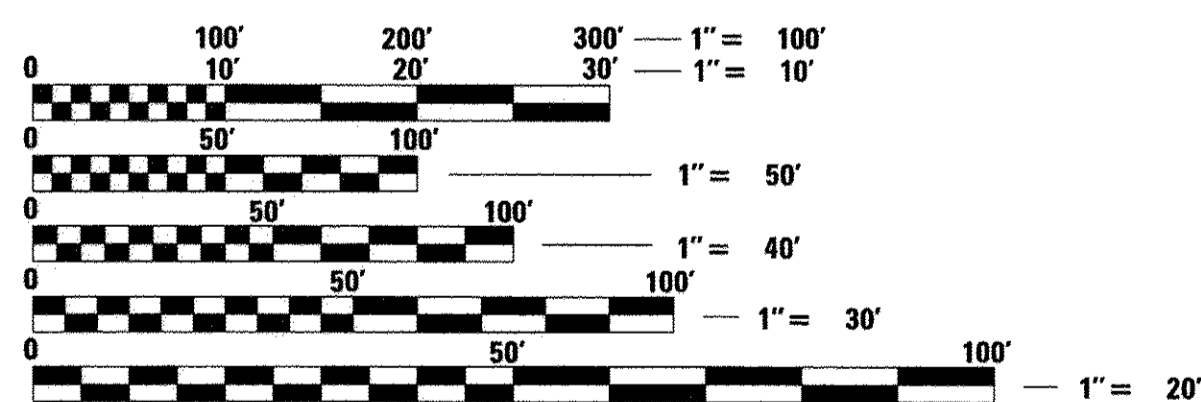
HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
515001-03	NAME PLATE FOR BRIDGES
630001-11	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630301-07	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
701901-06	TRAFFIC CONTROL DEVICES
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS-DAY ONLY
725001-01	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
B.L.R. 22-7	TYPICAL APPLICATION FOR TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES

FRONTIER COMMUNICATIONS
111 S. MAIN ST.
KEWANEE, IL 61443

AMEREN
1050 WEST BLVD.
BELLEVILLE, IL 62221

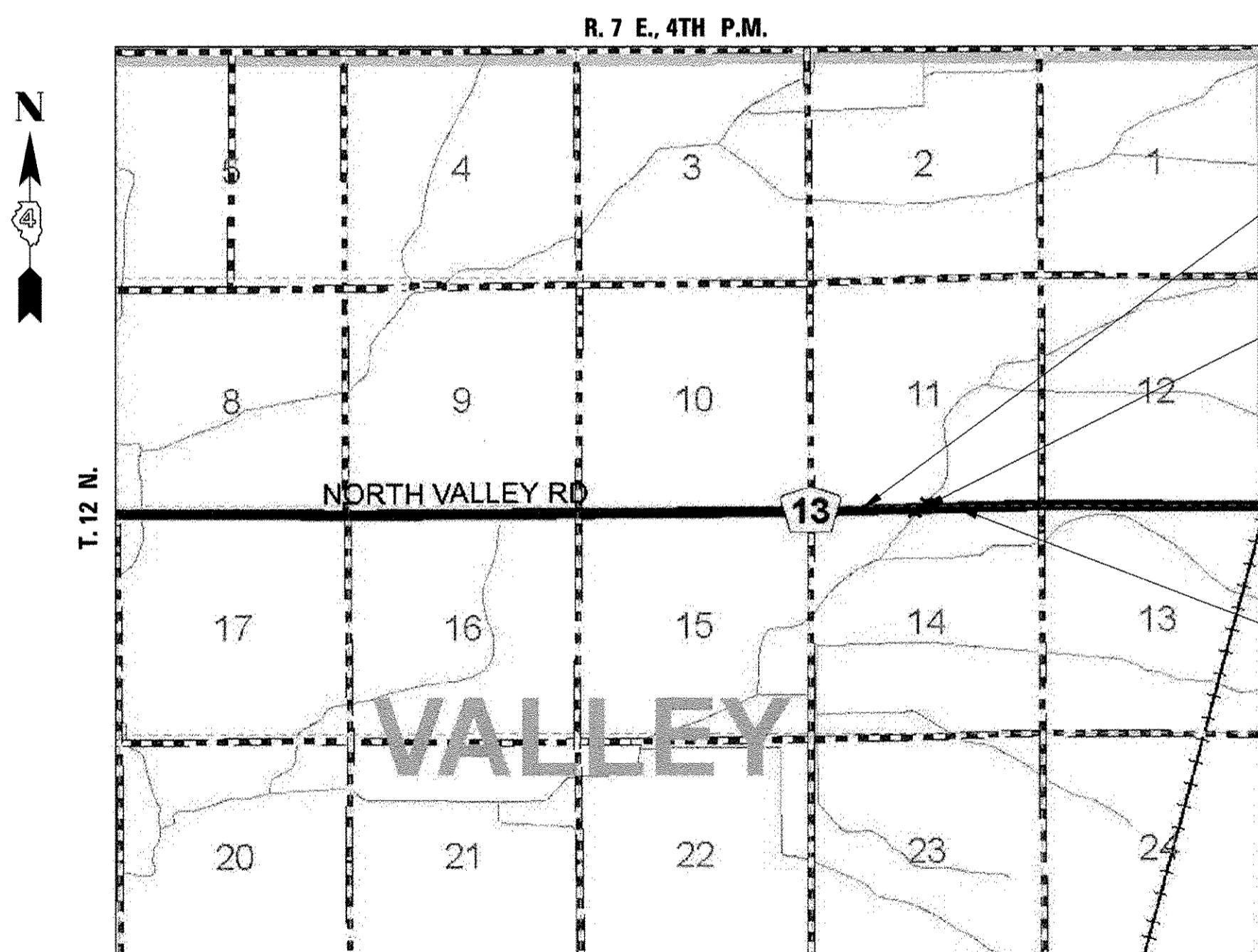


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

F.A.S. ROUTE 1372
SECTION 13-00170-00-BR
PROJECT BRS-1372 (112)
CULVERT REPLACEMENT
STARK COUNTY

C-94-028-13



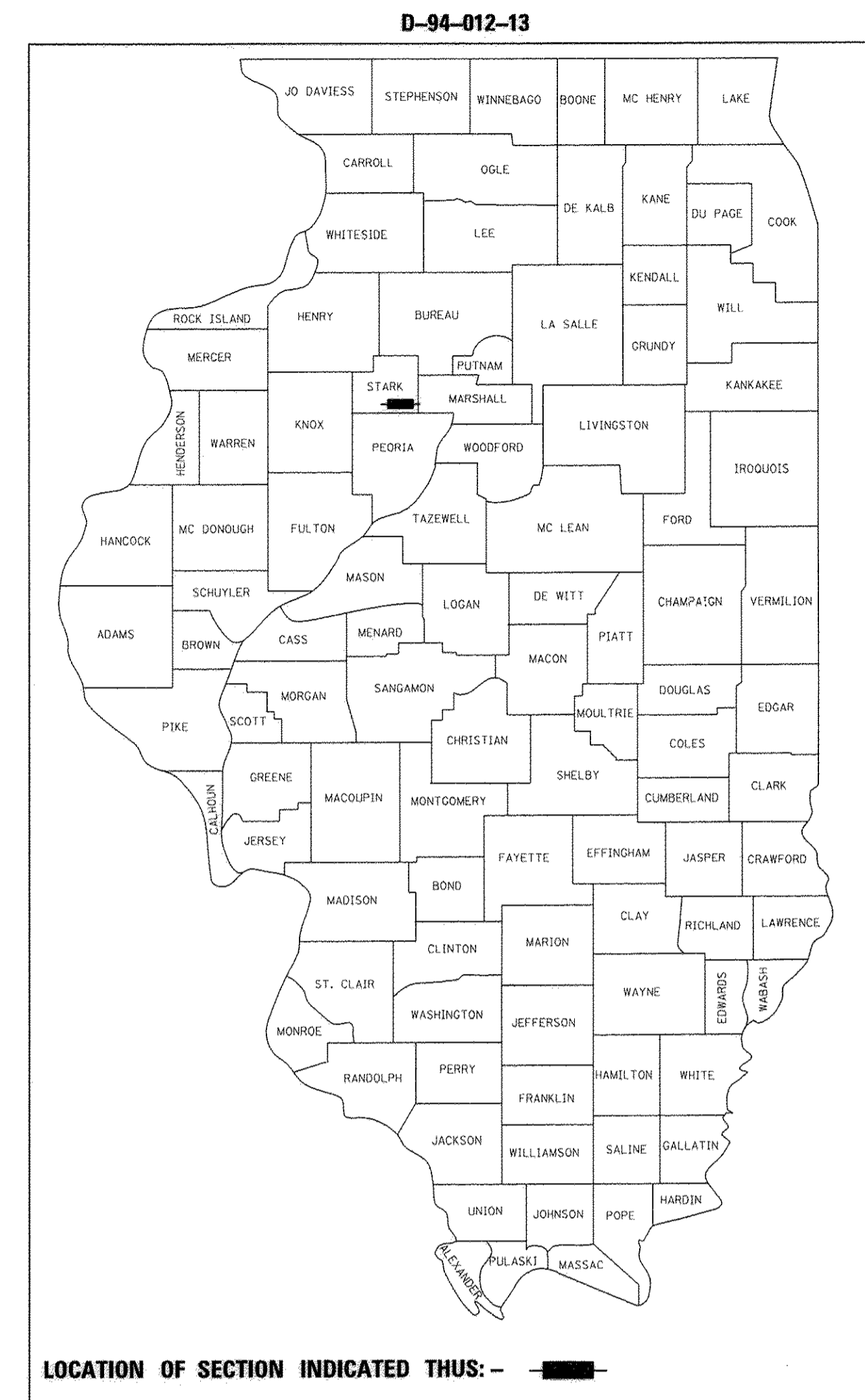
LOCATION MAP

NET LENGTH = 1200.00 FT. = 0.205 MILE

IMPROVEMENT BEGINS STA. 13 + 00.00

STA. 19 + 98.80
 DOUBLE 12X9' REINFORCED CONCRETE
 BOX CULVERT. LENGTH = 39'-4" O.-O.
 SKEW = 35'
 PROPOSED STRUCTURE NO. 088-3313

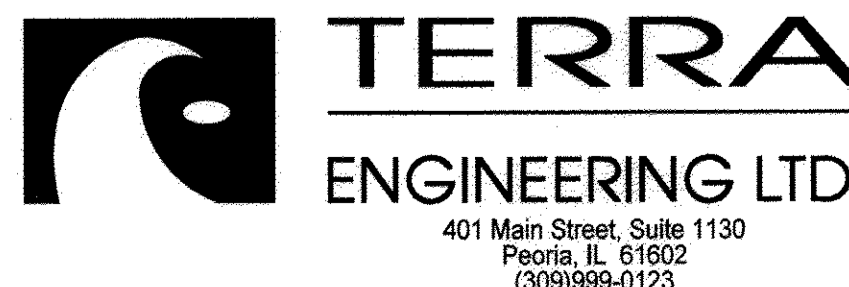
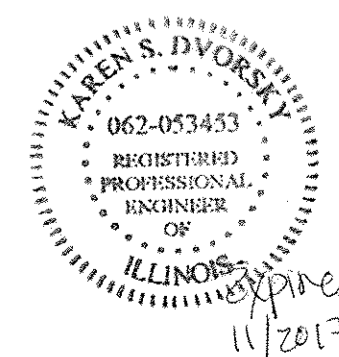
IMPROVEMENT ENDS STA. 25 + 00.00



FUNCTIONAL CLASSIFICATION: RURAL MAJOR COLLECTOR
DESIGN SPEED: 55 MPH
DESIGN TRAFFIC: 781 ADT (2032)

ILLINOIS DEPARTMENT OF TRANSPORTATION	
Approved	<i>Mark J. Otte</i>
STARK COUNTY, COUNTY ENGINEER	
Passed	<i>December 22, 2016</i>
DISTRICT 4 ENGINEER OF LOCAL ROADS & STREETS	
Releasing for Bid Based on Limited Review	<i>December 22, 2016</i>
REGION 3 ENGINEER	

Karen S. Dvorsky 12/21/2016
 KAREN DVORSKY, P.E.
 LICENSED PROFESSIONAL ENGINEER
 ILLINOIS NO. 062.053453 EXPIRES 11-30-17



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GENERAL NOTES

1. 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.

2. ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.

3. ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

4. 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.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO 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 REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- * BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- * 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 P10101

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

5. AGGREGATE BASE COURSE, TYPE B SHALL BE REQUIRED FOR ALL GRANULAR CONSTRUCTION OF SIDE ROADS, ENTRANCES, AND MAILBOX TURNOUTS, WHETHER OR NOT PORTIONS OF THE SURFACES THUS CONSTRUCTED ARE TO BE COVERED WITH A BITUMINOUS SURFACE, EXCEPT WHERE NOTED DIFFERENTLY ON THE PLANS.

6. THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACE OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY 3/4 INCH (20 MM) WIDE, 5 INCHES (125 MM) HIGH AND 5/8 INCH (15 MM) DEEP. THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:

INTERVAL - 200 FEET (ENGLISH STATIONING) OR 100 METERS (METRIC STATIONING)
 BOTTOM OF NUMBERS - 6 INCHES (150 MM) FROM THE INSIDE EDGE OF THE PAVEMENT MARKING LOCATION:

- 2, 3, & 5 LANE PAVEMENTS - RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING STATIONS
- MULTI-LANE DIVIDED ROADWAYS - OUTSIDE EDGE OF PAVEMENT IN BOTH DIRECTIONS
- RAMPS - ALONG BASELINE EDGE OF PAVEMENT

POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER FORMAT - ENGLISH (METRIC) PAVEMENT STATIONS SHALL USE THIS FORMAT XXX (XX+X00), WHERE X REPRESENTS THE PAVEMENT STATION THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.

7. BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE.

8. CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

9. TEN FEET (10 FT.)X(3M) 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.

10. PRECAST ALTERNATE IS NOT ALLOWED.

11. THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS WHICH MAY BE NECESSARY TO PROTECT THE PROPERTY OF THE VARIOUS UTILITIES WHICH MAY BE LOCATED UNDERGROUND OR ABOVE GROUND, AT OR ADJACENT TO THIS SITE OF IMPROVEMENT. THE CONTRACTOR WILL BE REQUIRED TO REPAIR OR REPLACE AT HIS/HER OWN EXPENSE, OR BEAR THE COST, TO REPAIR OR REPLACE, ANY PUBLIC UTILITY PROPERTY WHICH HAS BEEN DAMAGED THROUGH HIS NEGLIGENCE. THE PROCEDURE AND SPECIFICATIONS OF REPAIR WILL BE IN ACCORDANCE WITH THE REGULATIONS AND/OR POLICY OF THE UTILITY.

SURFACE TYPE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 GAL/SY
EXISTING PAVEMENT	0.04 GAL/SY
FOG COAT (BETWEEN LIFTS)	0.04 GAL/SY

CONSULT THE DISTRICT MIXTURES CONTROL ENGINEER FOR GUIDANCE IN CHOOSING HOT-MIX ASPHALT MIXTURE TYPES TO USE FOR YOUR SPECIFIC PROJECT. SEE MATERIALS MIXTURE REQUIREMENTS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S):	HMA SURF. CSE. MIX "C", N50 & INCIDENTAL SURFACE
AC/PG:	PG-64-22
DESIGN AIR VOIDS:	4% @ Ndes 50
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 9.5
FRICTION AGGREGATE:	MIXTURE C
MIXTURE WEIGHTS:	112 LBS/ SY / INCH THICKNESS
QUALITY MANAGEMENT:	QC/QA

NOTES: INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE.

CONSULT THE DISTRICT MIXTURES CONTROL ENGINEER FOR GUIDANCE IN CHOOSING HOT-MIX ASPHALT MIXTURE TYPES TO USE FOR YOUR SPECIFIC PROJECT. SEE MATERIALS MIXTURE REQUIREMENTS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S):	HMA BINDER CSE, MIX "C", N50
AC/PG:	PG-64-22
DESIGN AIR VOIDS:	4% @ Ndes 50
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 19
FRICTION AGGREGATE:	NONE
MIXTURE WEIGHTS:	112 LBS/ SY / INCH THICKNESS
QUALITY MANAGEMENT:	QC/QA

NOTES: INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE.

FILE NAME = 2-d4-15211-sht-gennote.dgn	USER NAME = AlphonseE	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STANDARDS AND GENERAL NOTES NORTH VALLEY ROAD OVER CAMP CREEK	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -			1372	13-00170-00-BR	STARK	28	2	
	PLOT DATE = 12/20/2016	CHECKED -	REVISED -			SCALE: 20		SHEET OF SHEETS		STA. 13+00.00 TO STA. 25+00.00	
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT CONTRACT NO. 89637					

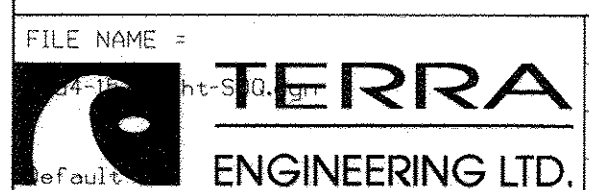
SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	TOTAL
* 20200100	EARTH EXCAVATION	CU YD	395
* 20700110	POROUS GRANULAR EMBANKMENT	TON	763
25100115	MULCH, METHOD 2	ACRE	0.25
25100630	EROSION CONTROL BLANKET	SQ YD	203
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	20
* 28100209	STONE RIPRAP, CLASS A5	TON	490
35101400	AGGREGATE BASE COURSE, TYPE B	TON	49
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	100
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	170
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	155
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	109
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	358
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	45
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	2787
48101200	AGGREGATE SHOULDERS, TYPE B	TON	60
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	729

*SPECIAL PROVISION
Δ SPECIALTY ITEMS

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	TOTAL
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	199
50800105	REINFORCEMENT BARS	POUND	36240
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1600
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	231
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	750
Δ 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	75
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
Δ 63200310	GUARDRAIL REMOVAL	FOOT	695
67100100	MOBILIZATION	LSUM	1
* 70101835	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	LSUM	1
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Δ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10
* X0327726	MEMBRANE WATERPROOFING FOR CULVERTS	SQ YD	156
* X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	114
* X2501100	SEEDING, CLASS 3 (SPECIAL)	ACRE	0.25
* Z0013798	CONSTRUCTION LAYOUT	LSUM	1

*SPECIAL PROVISION
Δ SPECIALTY ITEMS

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PLOT DATE = 12/20/2016

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DATE -

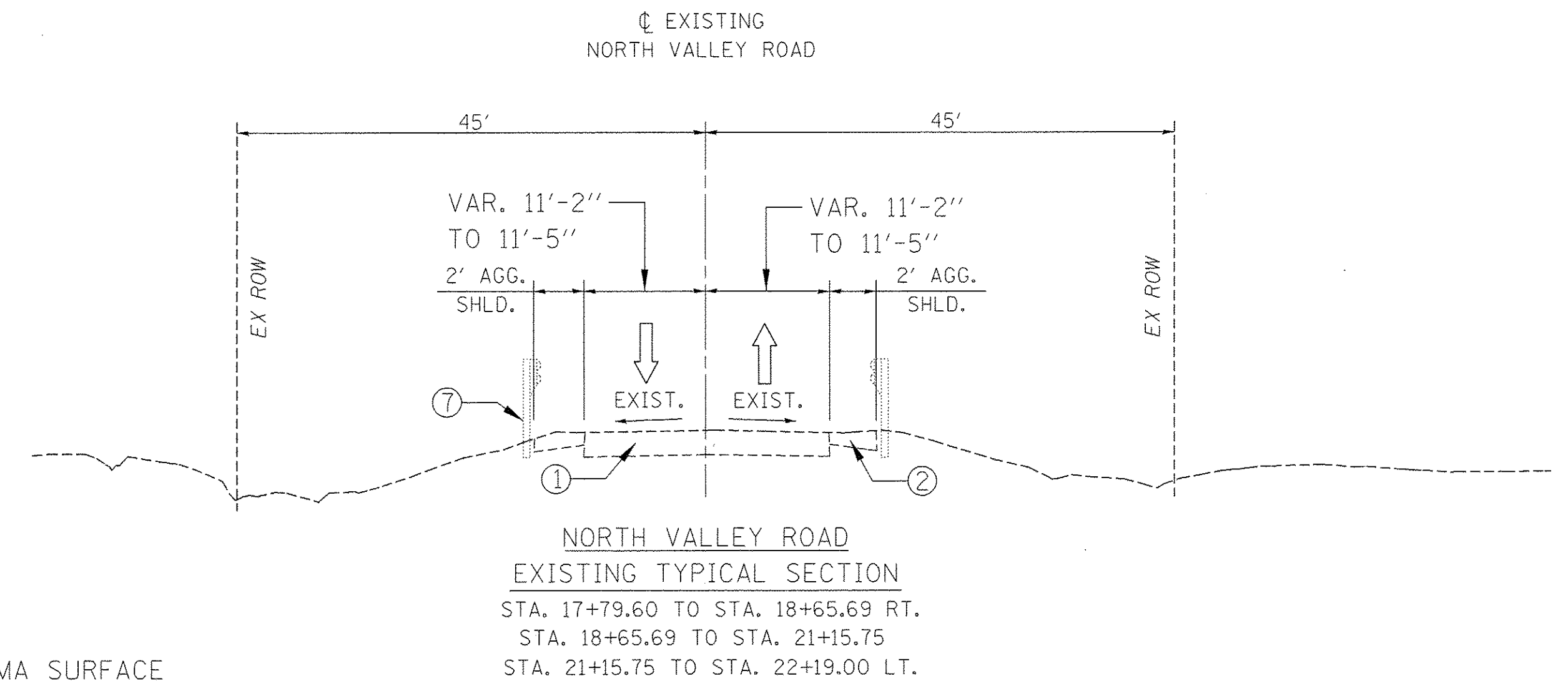
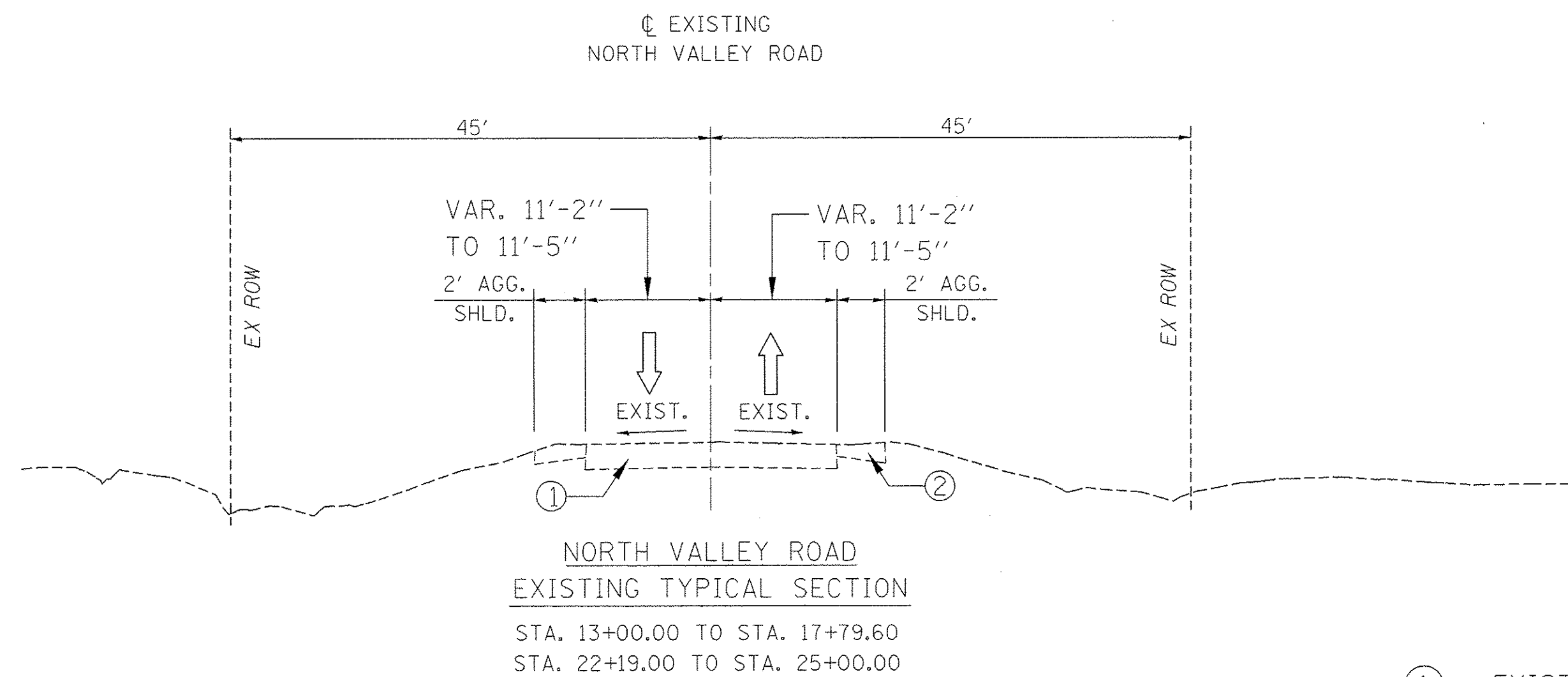
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

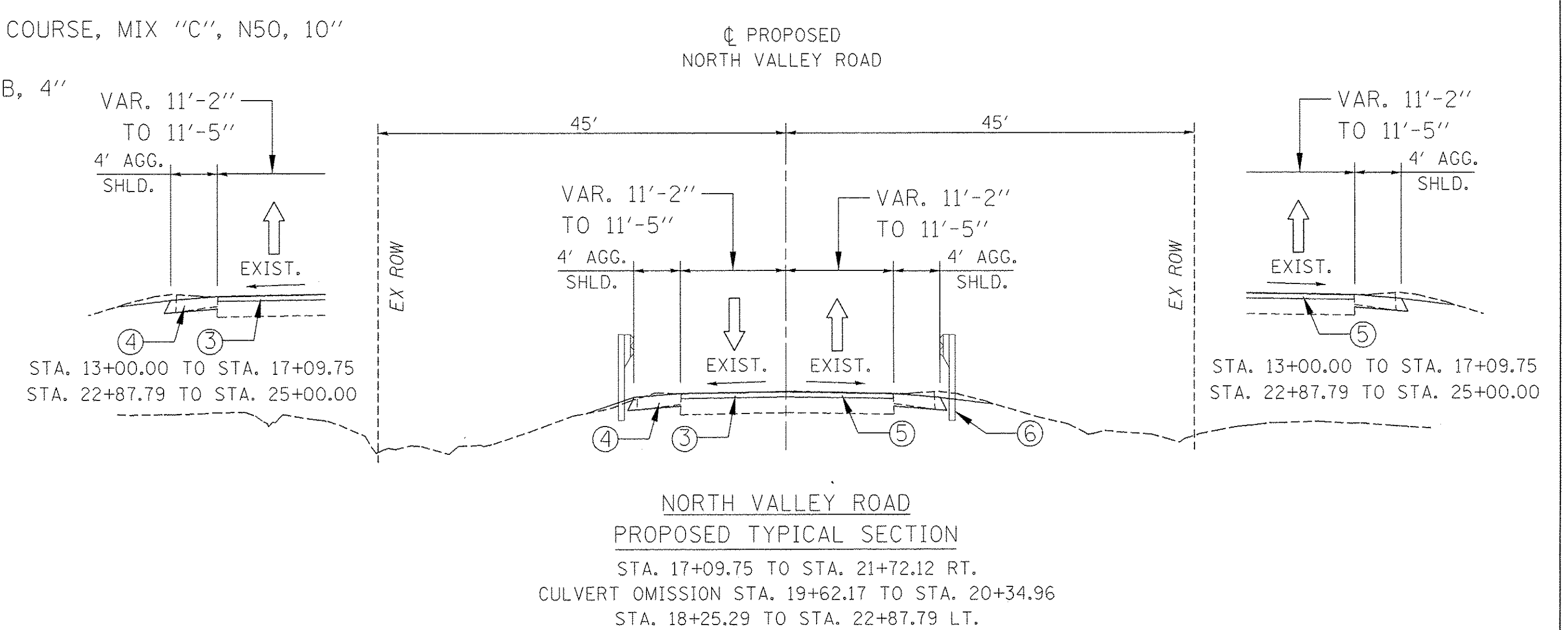
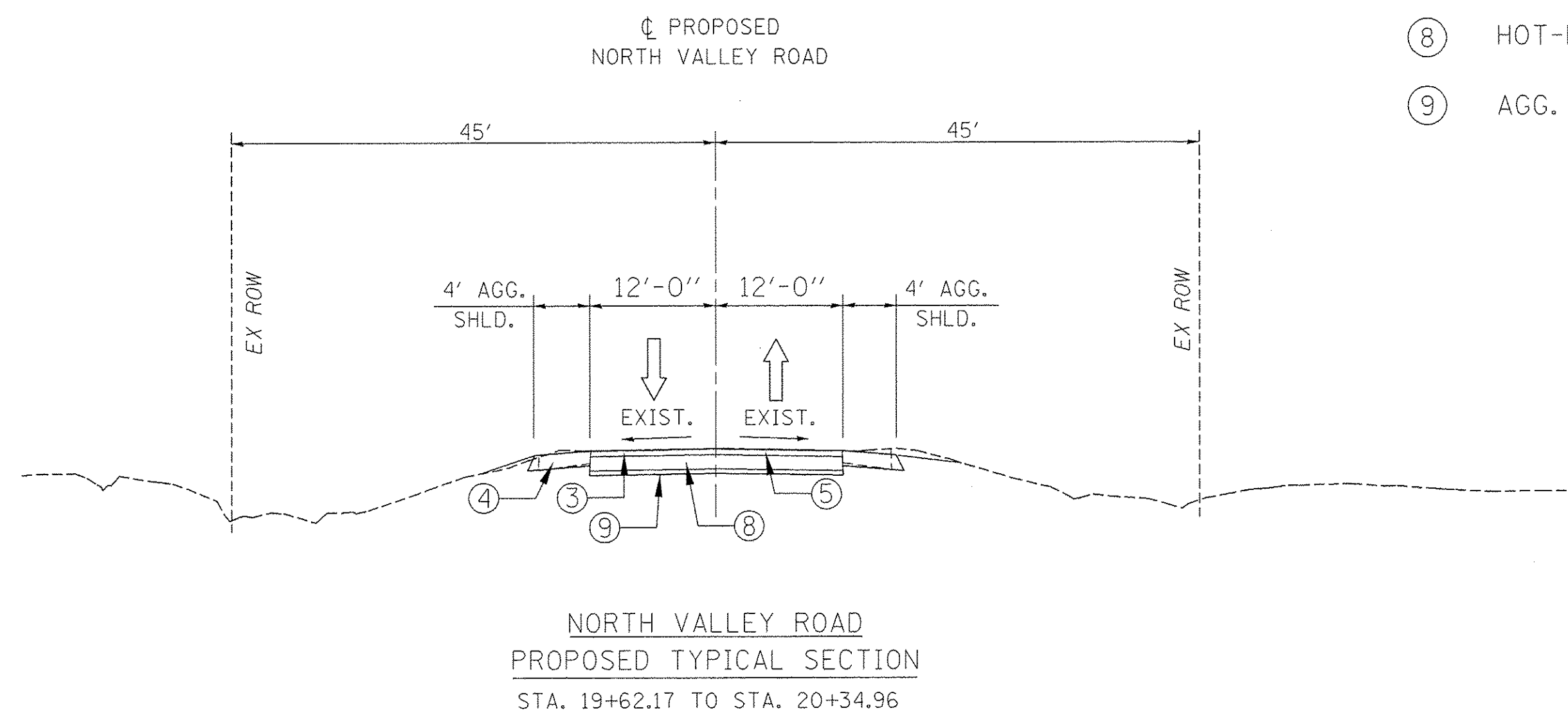
SUMMARY OF QUANTITIES
NORTH VALLEY ROAD OVER CAMP CREEK

SCALE: 20 SHEET OF SHEETS STA. 13+00.00 TO STA. 25+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1372	13-00170-00-BR	STARK	28	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89637	



- LEGEND
- ① EXISTING AGGREGATE BASE WITH HMA SURFACE
 - ② EXISTING AGGREGATE SHOULDER
 - ③ HOT-MIX ASPHALT SURFACE REMOVAL 2"
 - ④ AGGREGATE SHOULDERS, 4"
 - ⑤ HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2"
 - ⑥ PROPOSED STEEL PLATE BEAM GUARDRAIL
 - ⑦ EXISTING STEEL PLATE GUARDRAIL
 - ⑧ HOT-MIX ASPHALT BINDER COURSE, MIX "C", N50, 10"
 - ⑨ AGG. BASE COURSE, TYPE B, 4"



NOTE:

EXTEND AGG. SHOULDER TO HEADWALL OVER CULVERT ONLY
 NO AGG. BASE COURSE OVER BOX CULVERT
 DEPTH OF HOT-MIX ASPHALT BINDER COURSE, MIX "C", N50 VARIES OVER BOX CULVERT

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PLOT DATE = 12/20/2016	DATE -	REVISOR -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED TYPICAL SECTIONS			
NORTH VALLEY ROAD OVER CAMP CREEK			
SCALE: 20	SHEET	OF	SHEETS
		STA. 13+00.00	TO STA. 25+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1372	13-00170-00-BR	STARK	28	4
				CONTRACT NO. 89637
ILLINOIS FED. AID PROJECT				

STEEL PLATE GUARDRAIL SCHEDULE							
LOCATION			6300001	63000030	63100167	78200005	72501000
			STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	STRONG POST GUARDRAIL ATTACHED TO CULVERT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED
BEGIN STATION	END STATION	OFFSET	FOOT	FOOT	EACH	EACH	EACH
18+25.29	22+87.79	LT.	375.0	37.5	2	5	2
17+09.75	21+72.12	RT.	375.0	37.5	2	5	2
TOTAL			750.0	75.0	4	10	4

TRAFFIC CONTROL SCHEDULE			
LOCATION		70101835	
		TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	
BEGIN STATION	END STATION	LSUM	
13+00.00	25+00.00	1	
TOTAL		1	

REMOVAL SCHEDULE				
LOCATION		40600982	44000157	63200310
		HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	GUARDRAIL REMOVAL
BEGIN STATION	END STATION	SQ YD	SQ YD	FOOT
13+00.00	13+30.00	80		
13+30.00	19+98.82		1635	353
19+98.82	24+70.00		1152	342
24+70.00	25+00.00	75		
TOTAL		155	2787	695

CONSTRUCTION LAYOUT SCHEDULE			
LOCATION		Z0013798	
		CONSTRUCTION LAYOUT	
BEGIN STATION	END STATION	LSUM	
141+55.99	166+16.01	1	
TOTAL		1	

MOBILIZATION SCHEDULE			
LOCATION		67100100	
		MOBILIZATION	
BEGIN STATION	END STATION	LSUM	
13+00.00	25+00.00	1	
TOTAL		1	

EARTHWORK SCHEDULE				
LOCATION		20200100	50200100	50200450
		EARTH EXCAVATION	STRUCTURE EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES
		CU YD	CU YD	CU YD
LOCATION	OFFSET			
13+00.00 TO 19+83.00	LT.	43.5		
13+00.00 TO 19+83.00	RT.	43.5		
19+62.16 TO 20+34.98	LT.	110.5	364.5	
19+62.16 TO 20+34.98	RT.	110.5	364.5	199
20+22.60 TO 25+00.00	LT.	43.5		
20+06.70 TO 25+00.00	RT.	43.5		
TOTAL		395	729	199

SEEDING SCHEDULE						
LT/RT	LOCATION		X2501100	25100630	28000250	25100115
			SEEDING, CLASS 3 (SPECIAL)	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	MULCH, METHOD 2
			ACRE	SQ YD	POUND	ACRE
BEGIN STATION	END STATION					
LT	19+82.45	20+56.77	0.04	41	4	0.04
RT	19+36.43	20+13.21	0.07	162	7	0.07
TOTAL			0.25	203	20	0.25

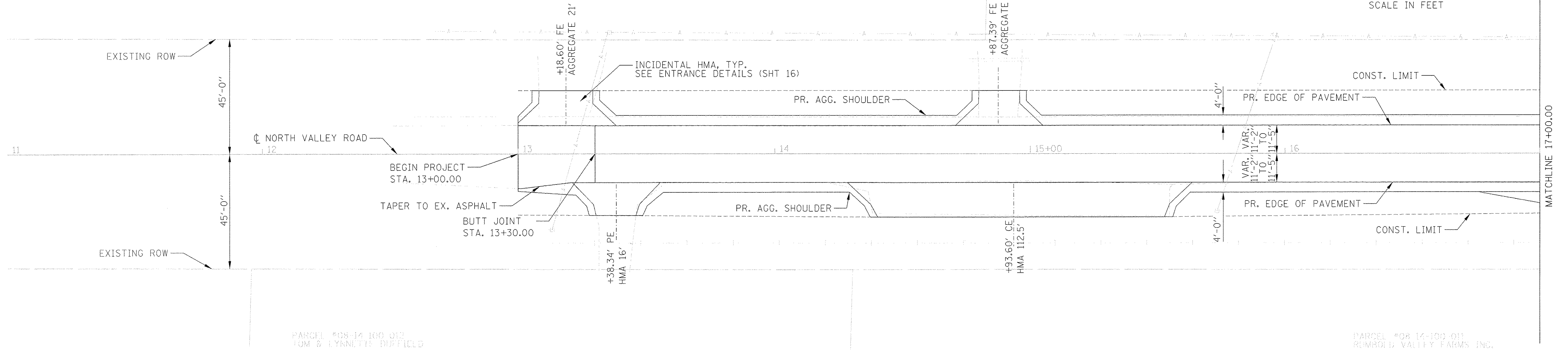
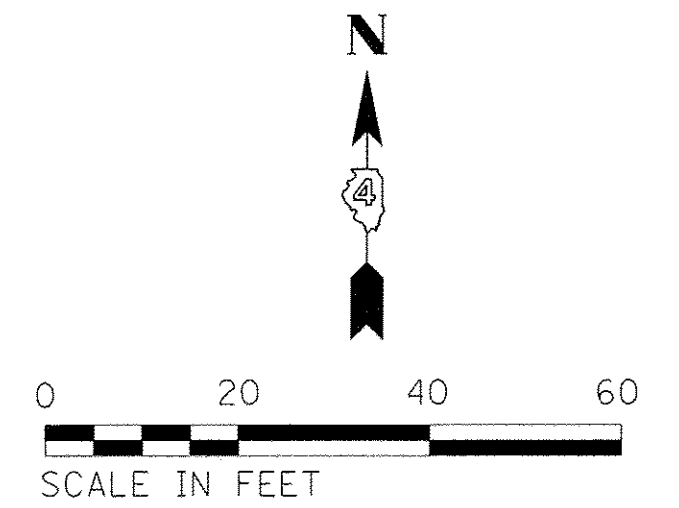
PAVING SCHEDULE								
LOCATION		35100100	40603080	40603310	40800050	48101200	40600290	40600275
		AGGREGATE BASE COURSE, TYPE A	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE SHOULDERS, TYPE B	BITUMINOUS MATERIALS (TACK COAT)	BITUMINOUS MATERIALS (PRIME COAT)
BEGIN STATION	END STATION	TON	TON	TON	TON	TON	POUND	POUND
NORTH VALLEY RD.								
13+00.00	13+30.00			9		1	3	
13+30.00	17+00.00			111		14	39	
17+00.00	23+00.00	43	109	179		34	103	100
23+00.00	24+70.00			51		9	18	
24+70.00	25+00.00			9		1	3	
DRIVEWAYS								
13+18.60 (LT.)		2						
13+38.34 (RT.)					7		1	
14+87.39 (LT.)		2						
14+93.60 (RT.)					39		7	
22+04.22 (RT.)		2						
TOTAL		49	109	358	45	60	170	100

PLAN	SUBMITTED	DATE
	ALIGNED	
	CHECKED	
	NO. _____	
	FILE NAME	

PROFILE	SUBMITTED	DATE
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	

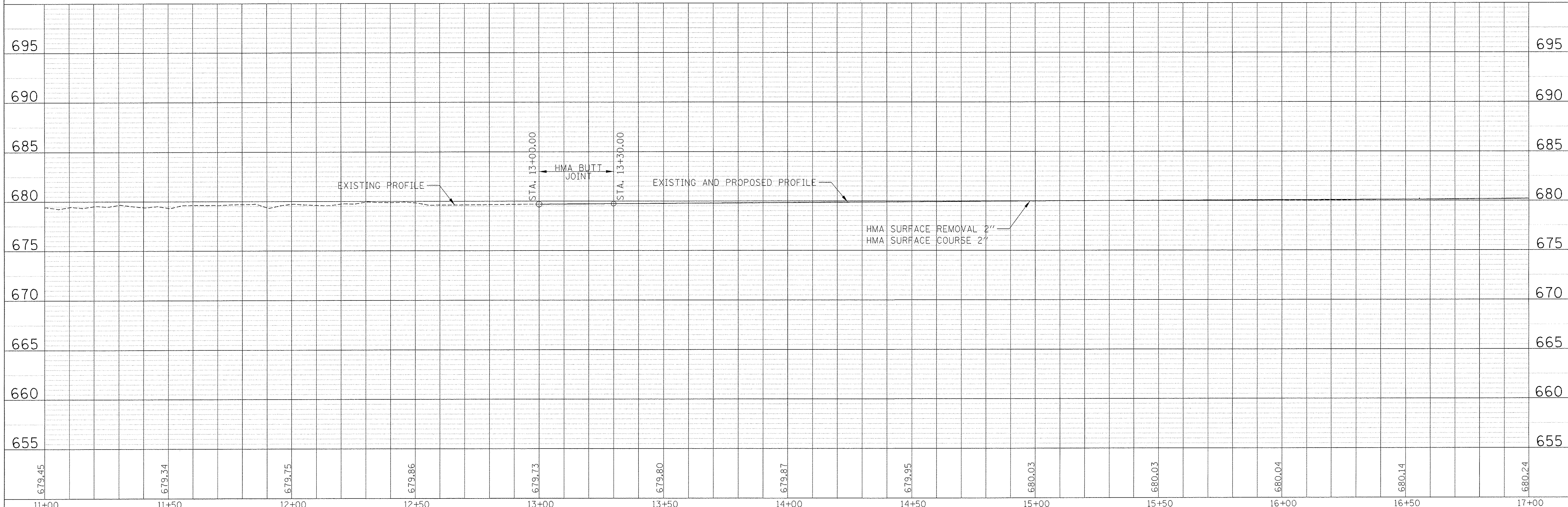
PARCEL #08-11-100-002
LORETTA RUMBOLO

PARCEL #08-11-100-004
RUMBOLO VALLEY FARMS INC



PARCEL #08-14-100-012
TOM & LYNNETTE DUFFIELD

PARCEL #08-14-100-011
RUMBOLO VALLEY FARMS INC.



FILE NAME = 6-d4-15211-sht-planprof001.dgn
USER NAME = AlphonseE
PLOT SCALE = 20.0000' / 1 in.
PLOT DATE = 12/20/2016

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

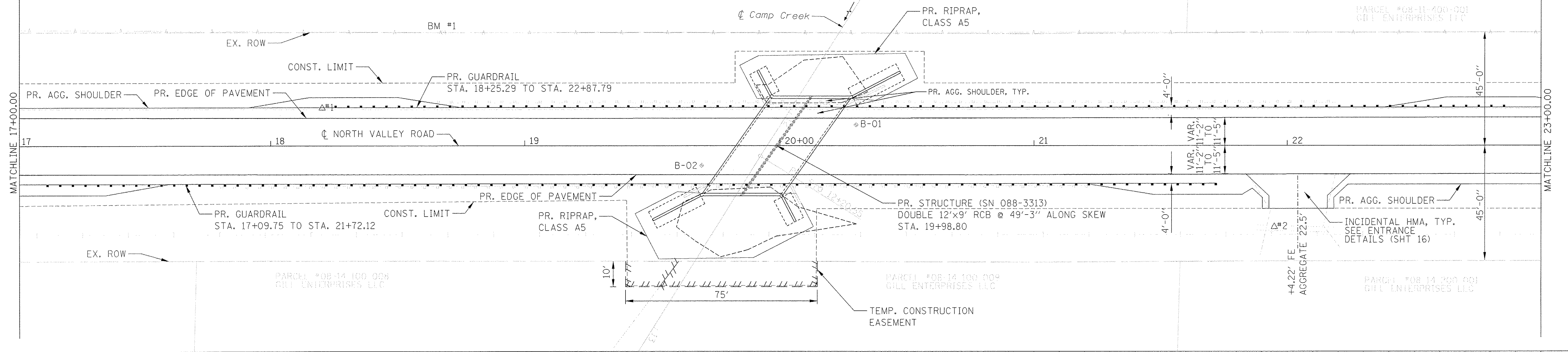
**EXISTING AND PROPOSED PLAN AND PROFILE
NORTH VALLEY ROAD**
SCALE: 1"=20' SHEET OF SHEETS STA. 13+00.00 TO STA. 25+00.00

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CONTRACT NO. 89637			ILLINOIS FED. AID PROJECT	

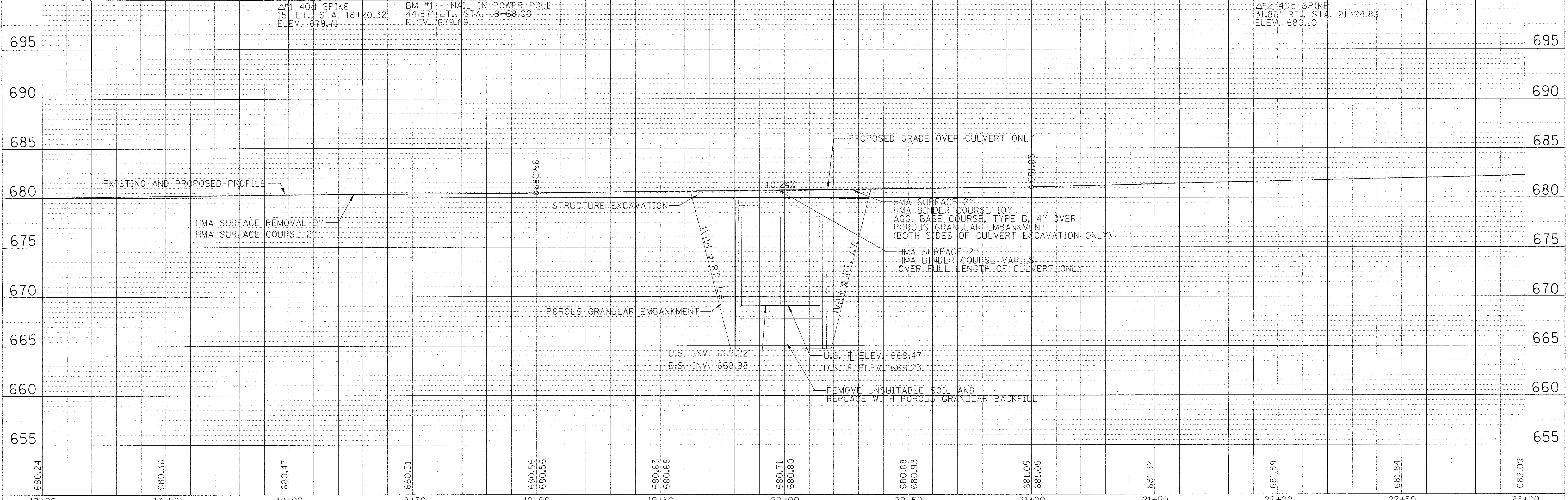
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17+00	17+50	18+00	18+50	19+00	19+50	20+00	20+50	21+00	21+50	22+00	22+50	23+00					

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

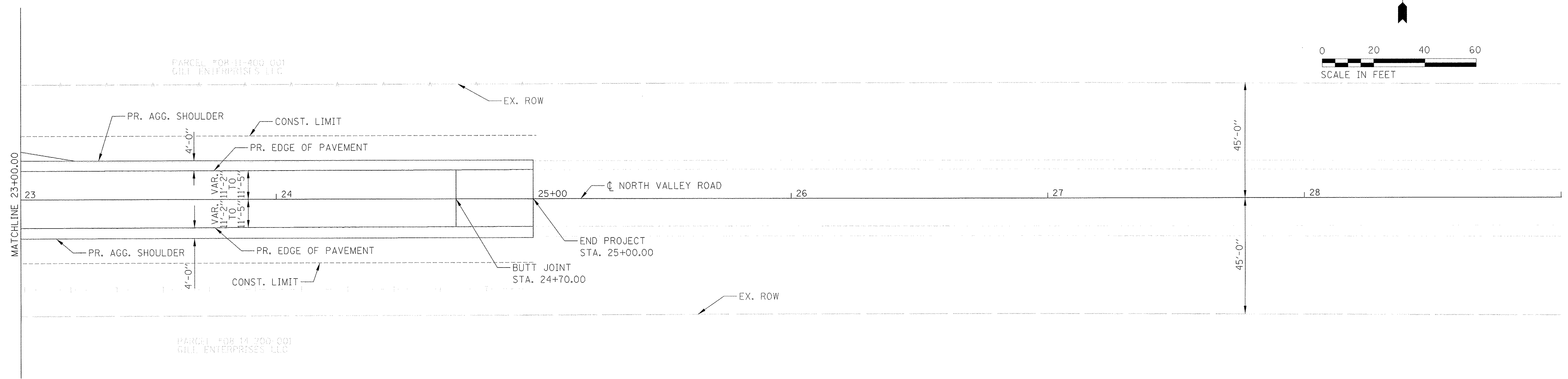
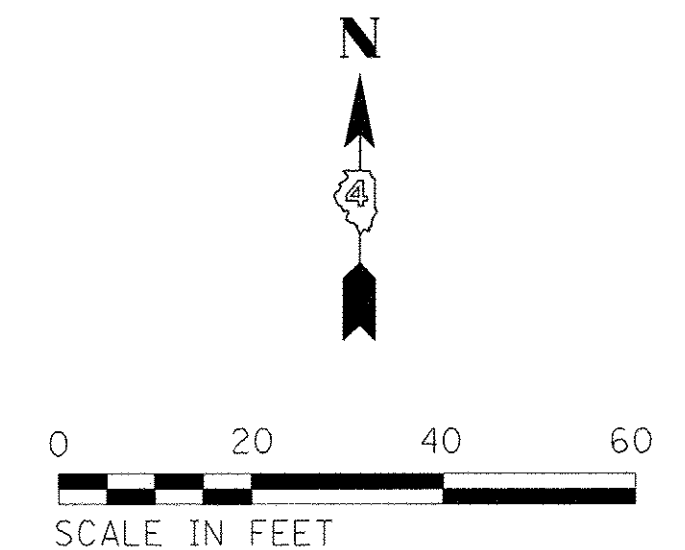
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 NORTH VALLEY ROAD**
 SCALE: 1"=20'
 SHEET OF SHEETS STA. 13+00.00 TO STA. 25+00.00

F.A.S. RTE. 1372	SECTION 13-00170-00-BR	COUNTY STARK	TOTAL SHEETS 28	SHEET NO. 7
CONTRACT NO. 89637			ILLINOIS FED. AID PROJECT	

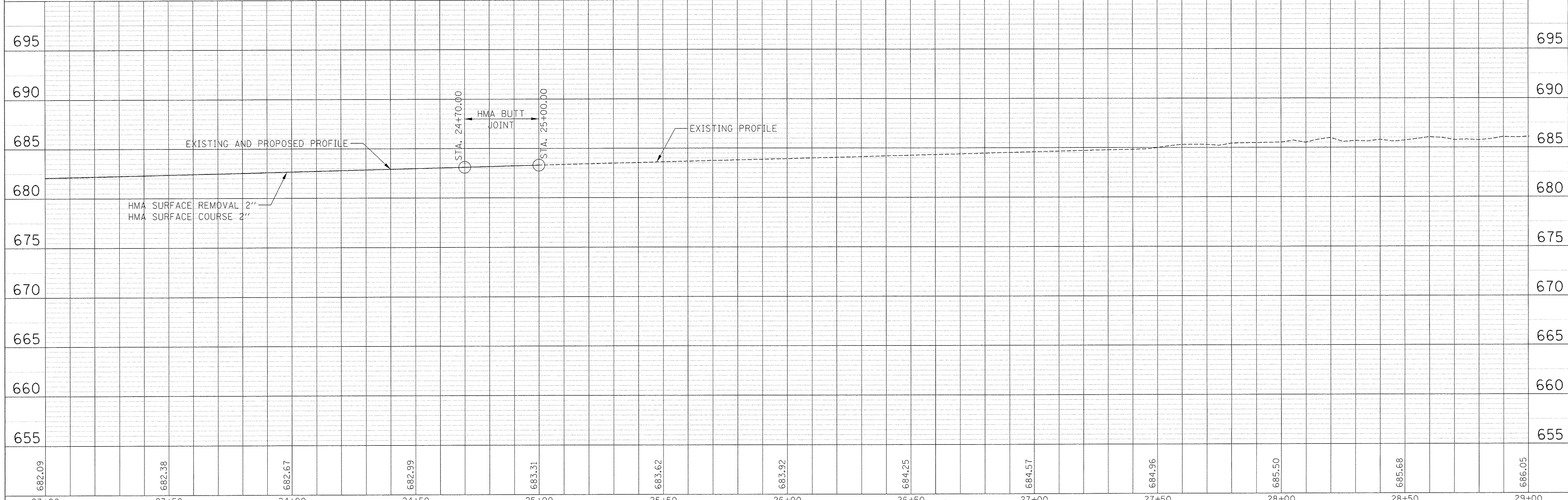
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PLAN	SURVEYED	BY	DATE
	ALIGNED		
	NOTED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CHK'D		



NOTE: INCIDENTAL HMA, TYP.
SEE ENTRANCE DETAILS (SHT 16)



FILE NAME = 8-d4-15211-sht-planprof003.dgn	USER NAME = AlphonseE	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED PLAN AND PROFILE NORTH VALLEY ROAD				F.A.S. RTE. 1372	SECTION 13-00170-00-BR	COUNTY STARK	TOTAL SHEETS 28	SHEET NO. 8
Default	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -		SCALE: 1"=20'	SHEET	OF	SHEETS	STA. 13+00.00	TO STA. 25+00.00	CONTRACT NO. 89637		
	PLOT DATE = 12/20/2016	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

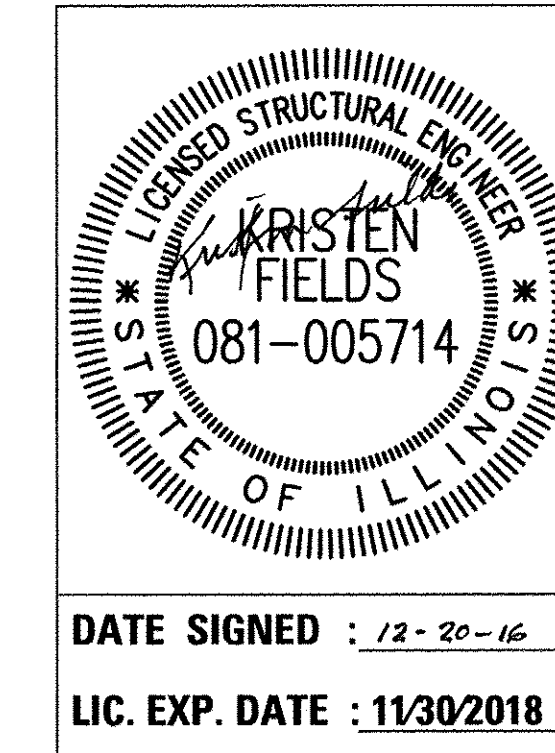
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Bench Mark: Chiseled "x" Northwest of structure on power pole in field.
Elev. 679.89 at Sta. 18+66.83, 44.6' Lt.

Existing Structure: S.N. 088-3213 Built originally in 1956 as CH13A,
Section 3-1B as a double barrel cast in place concrete box culvert 38'-3"
long and clear width of 12'-0" for each barrel by 8'-0" high.

The existing structure will be removed and replaced under
road closure.

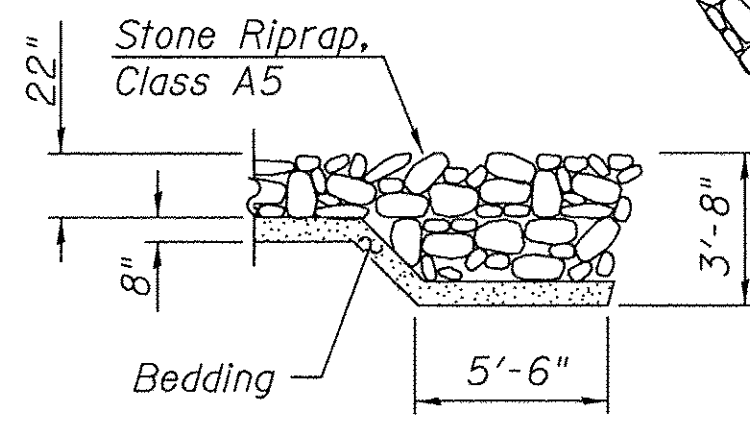
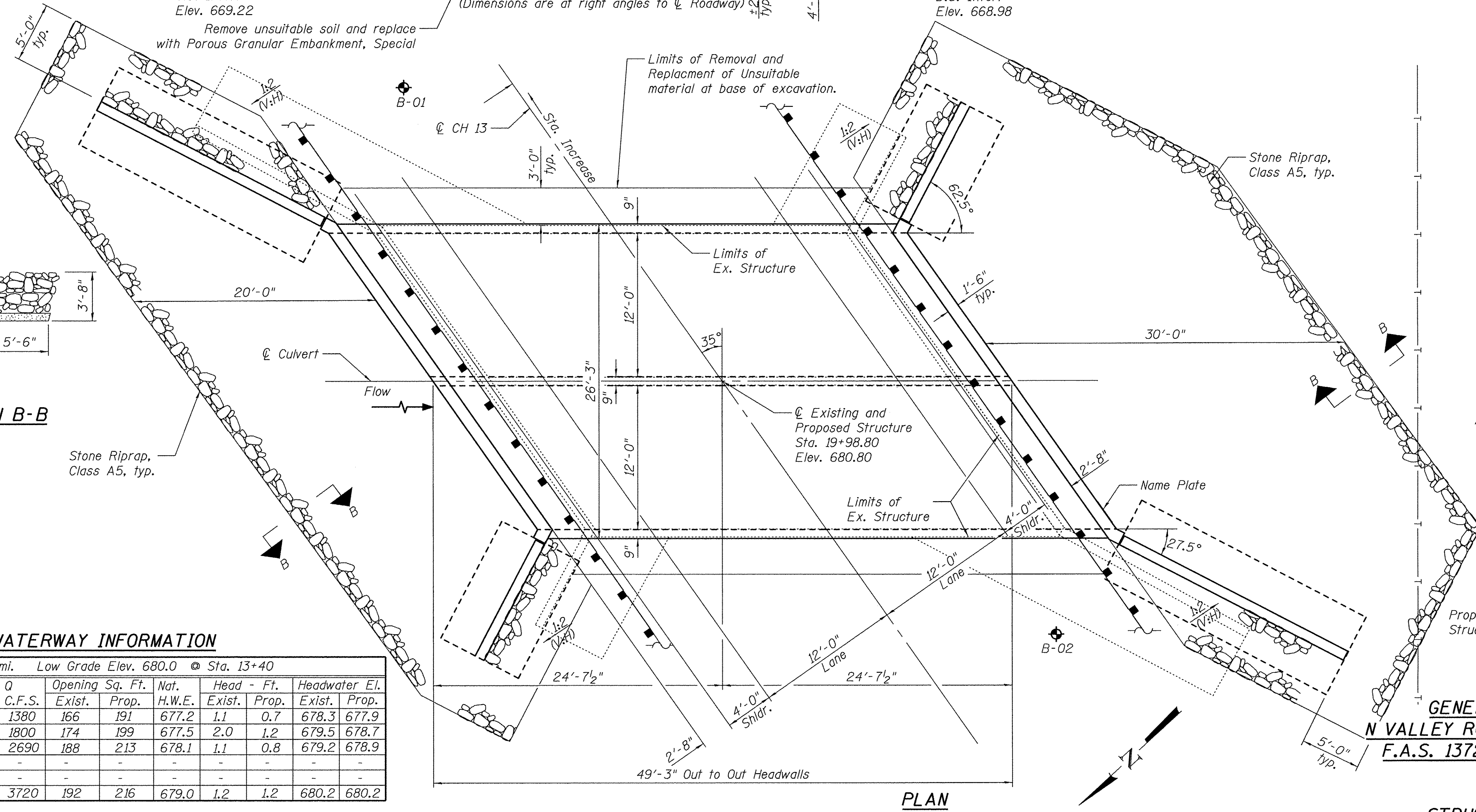
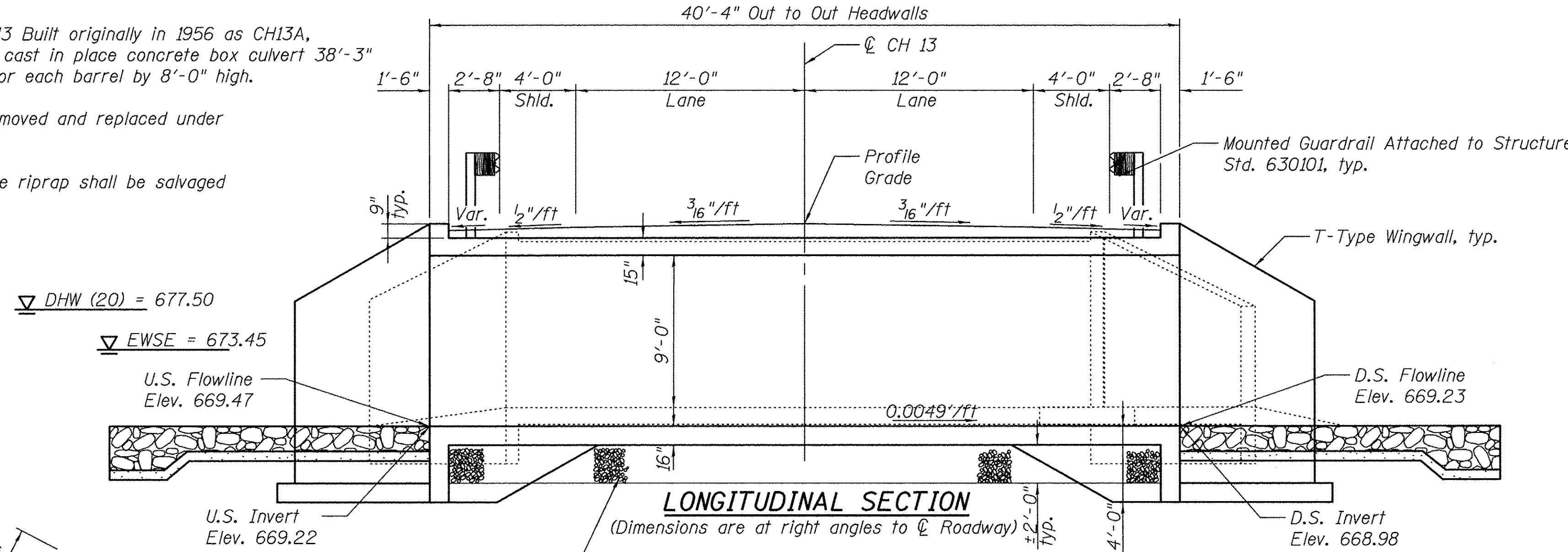
Salvage: Steel guardrail and stone riprap shall be salvaged
and set aside for County use.



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

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3-5 Culvert Details
- 6-7 Boring Logs



SECTION B-B

DESIGN STRESSES

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

DESIGN SPECIFICATIONS

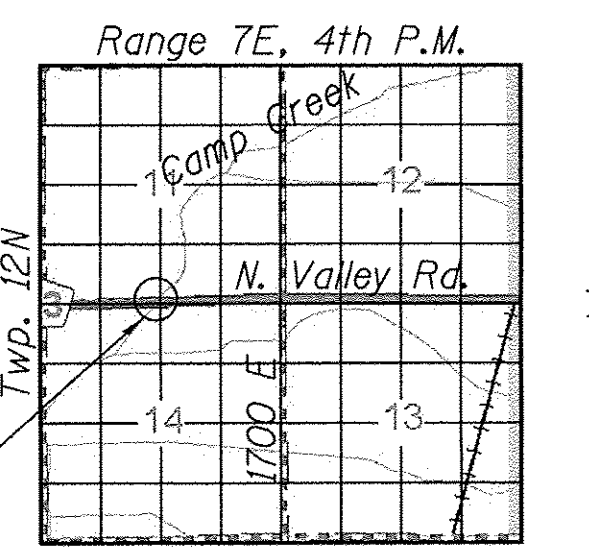
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims

HIGHWAY CLASSIFICATION

F.A.S. Rte. 1372 (CH 13)
Functional Class: Major Collector
ADT: 1041 (2017); 1270 (2037)
ADTT: 156 (2017); 191 (2037)
DHW: 127
Design Speed: 60 m.p.h.
Posted Speed: 55 m.p.h.
2 - Way Traffic
Directional Distribution: 50:50

LOADING HL-93

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



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 4.3 sq. mi. Low Grade Elev. 680.0 @ Sta. 13+40

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	1380	166	191	677.2	1.1	0.7	678.3	677.9
Base	20	1800	174	199	677.5	2.0	1.2	679.5	678.7
Overtopping (Exist)	100	2690	188	213	678.1	1.1	0.8	679.2	678.9
Overtopping (Prop)	-	-	-	-	-	-	-	-	-
Max. Calc.	500	3720	192	216	679.0	1.2	1.2	680.2	680.2

GENERAL PLAN & ELEVATION
N VALLEY ROAD (CH 13) OVER CAMP CREEK
F.A.S. 1372 - SECTION 13-00170-00-BR
STARK COUNTY
STA. 19+98.80
STRUCTURE NUMBER 088-3313

CAMP CREEK
 BUILT 20-- BY
 STARK COUNTY
 SEC. 13-00170-00-BR
 FAS 1372 STATION 19+98.80
 STR. NO. 088-3313 LOADING HL -93

NAME PLATE
 See Std. 515001



PROFILE GRADE
 (along C CH 13)

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.

Precast alternate is not allowed.

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

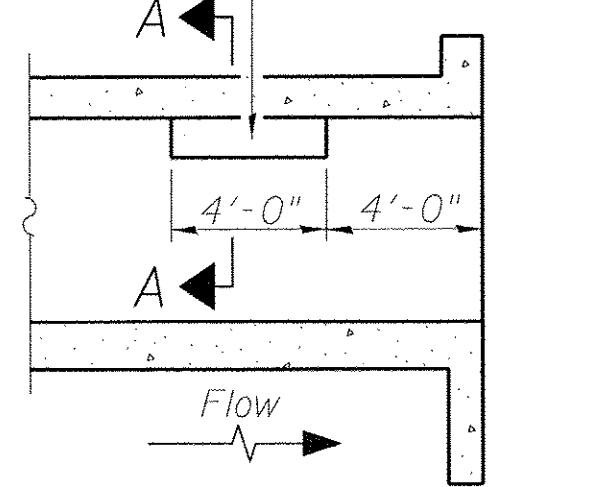
Backfill material around the double barrel culvert shall be Porous Granular Embankment.

Contractor shall apply a mastic joint sealer material conforming to Section 1055 of the Standard Specifications around the anchorage of the guardrail posts into the top of slab of the culvert to the satisfaction of the Engineer. Cast for the mastic joint sealer material and installation is incidental to Steel Plate Beam Guardrail, Attached to Structures.

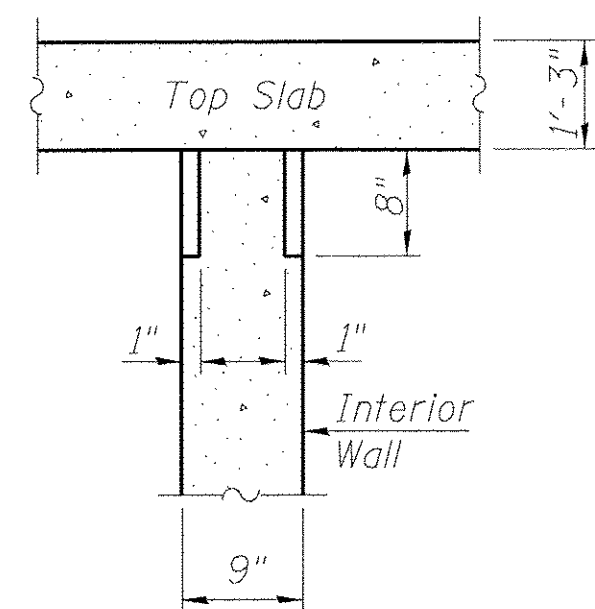
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Earth Excavation	Cu. Yd.	221
Porous Granular Embankment	Cu. Yd.	372
Stone Riprap, Class A5	Ton	490
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	729
Removal and Disposal of Unsuitable Material For Structures	Cu. Yd.	199
Reinforcement Bars	Pound	36240
Reinforcement Bars, Epoxy Coated	Pound	1600
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	231
Membrane Waterproofing For Culverts	Sq. Yd.	156
Porous Granular Embankment, Special	Cu. Yd.	114

Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).

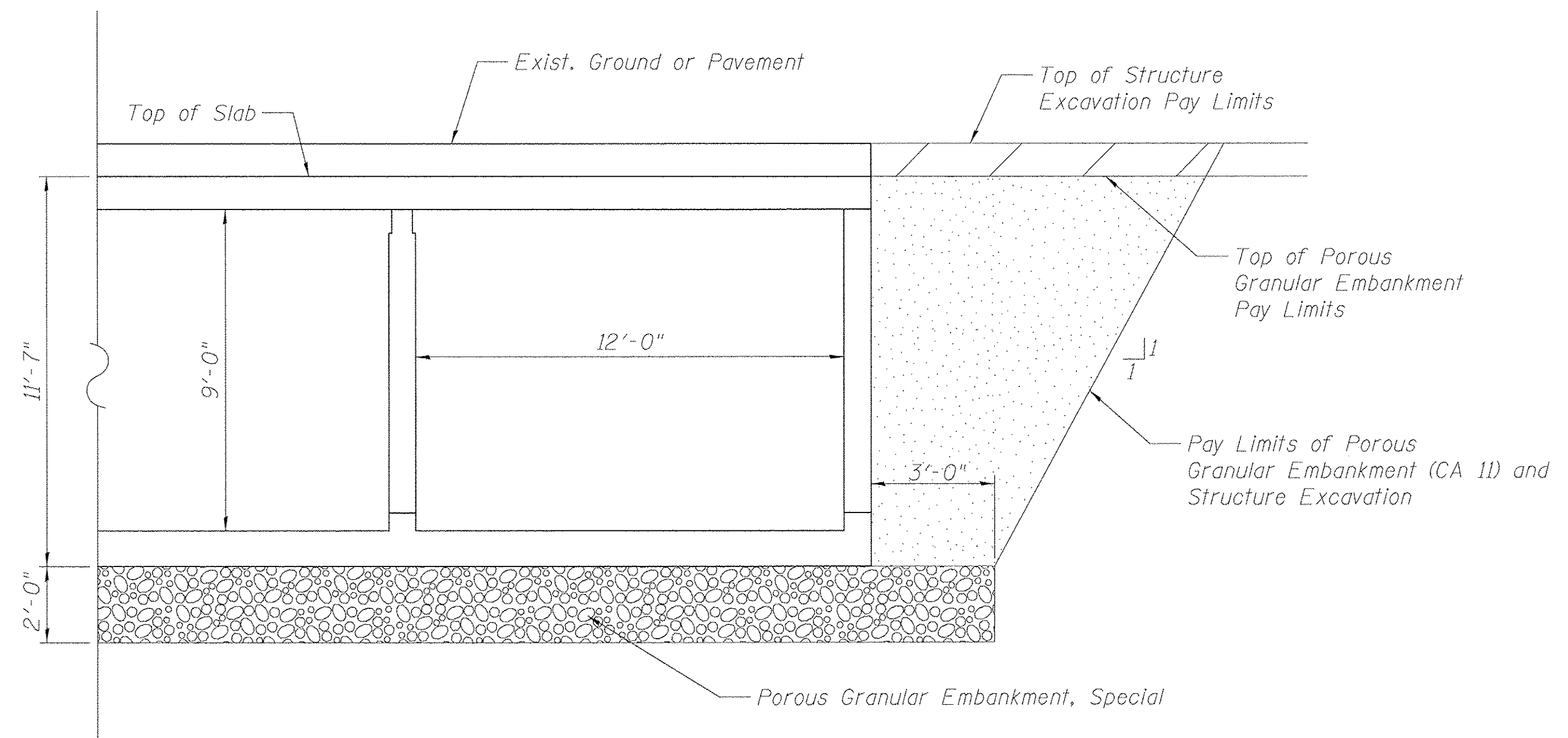


LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING
SITE DETAILS
 (Downstream End Only)



BACKFILL DETAIL

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 ENGINEERING LTD.

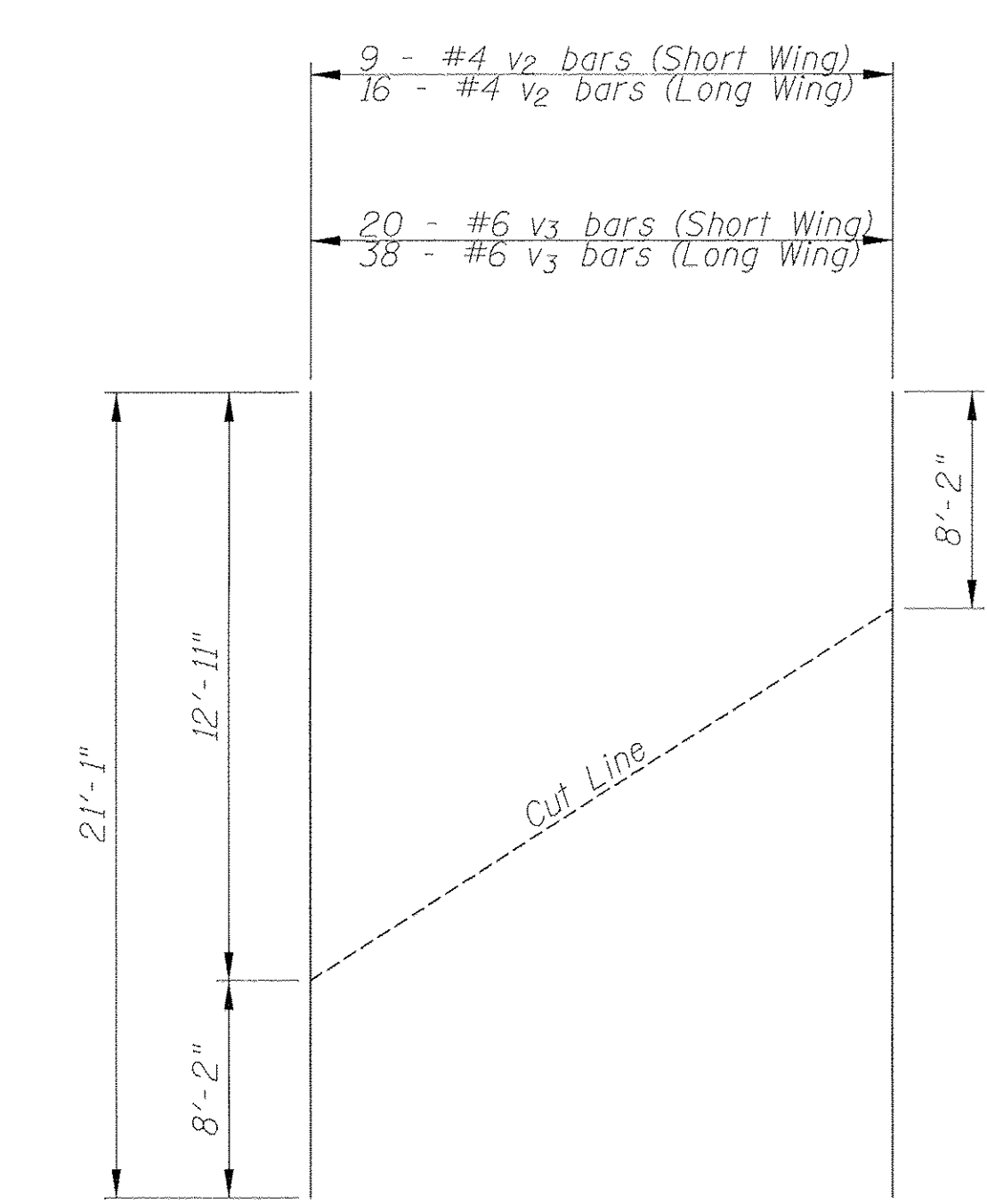
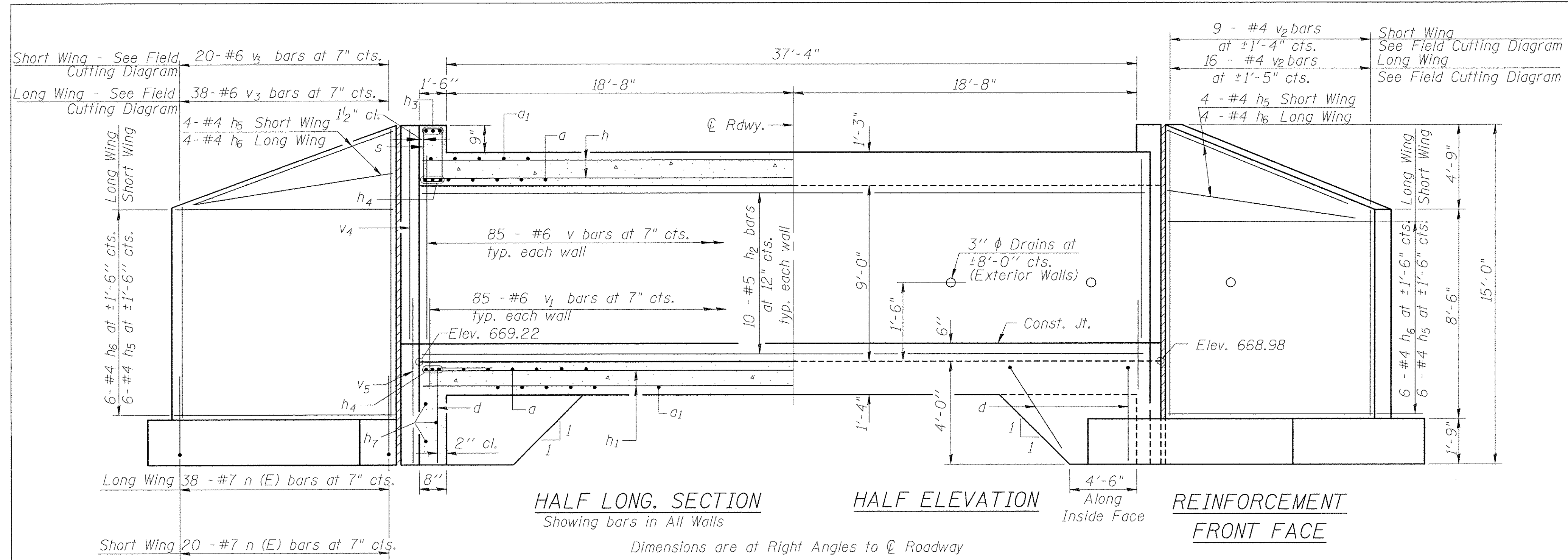
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

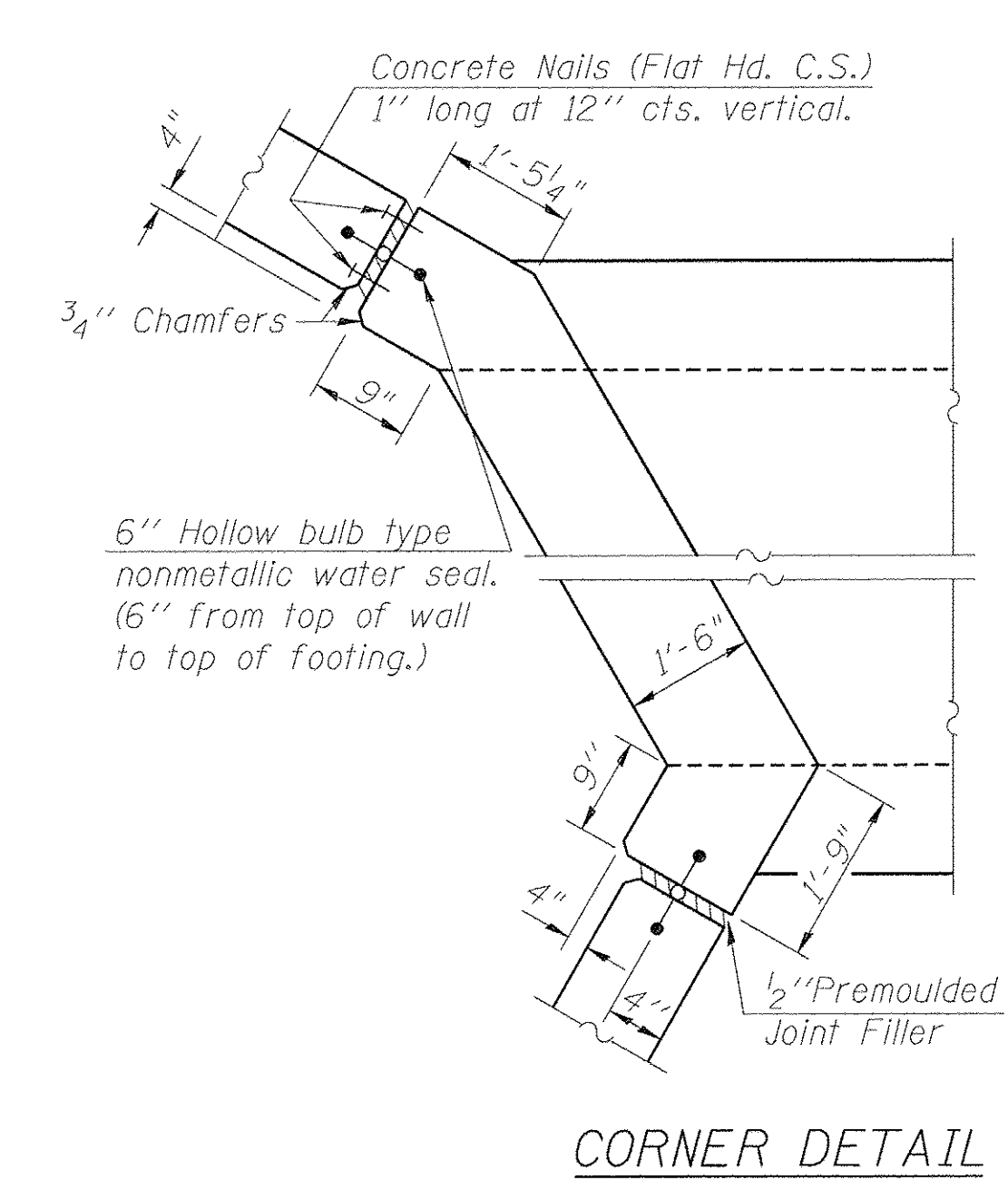
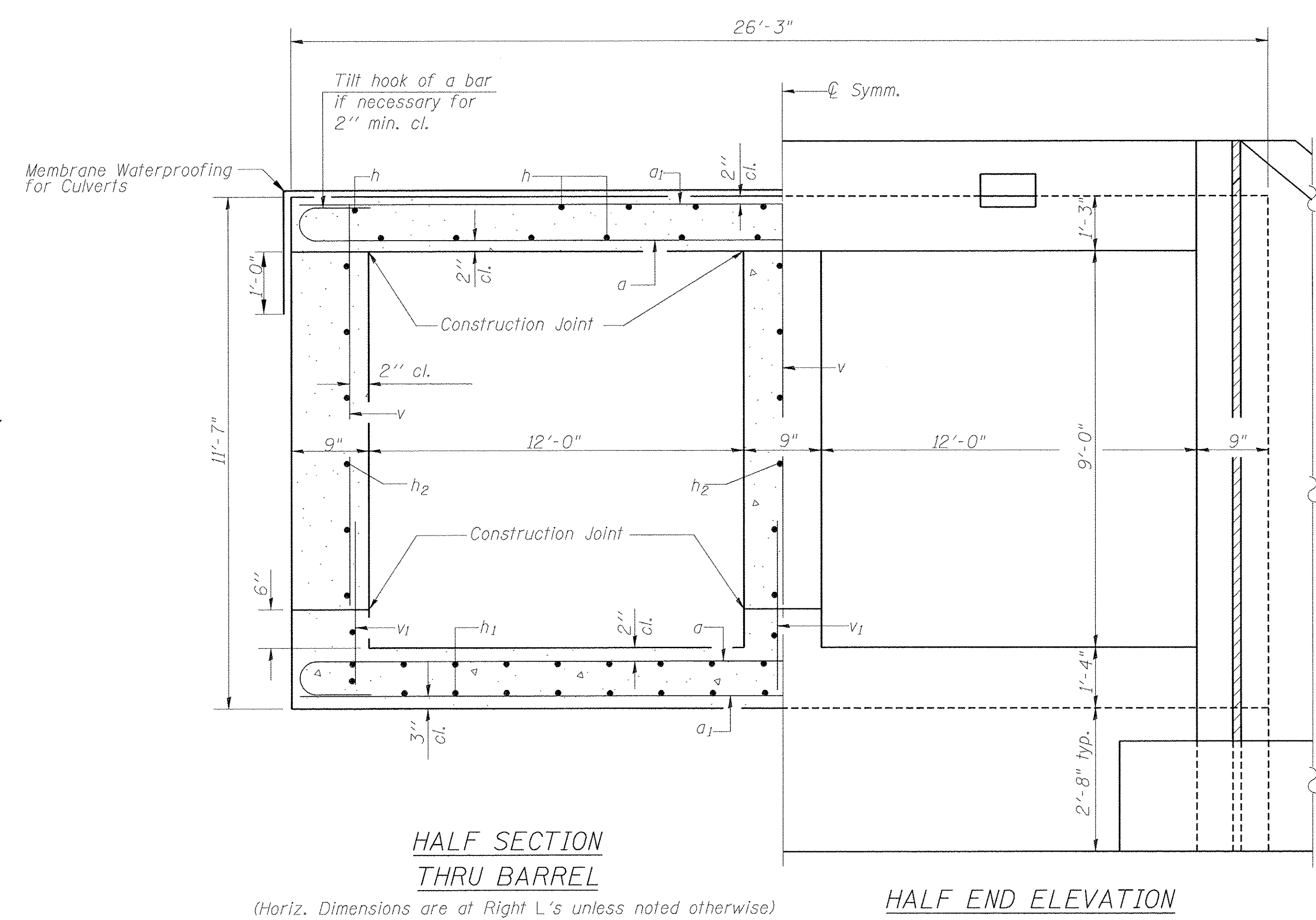
GENERAL DATA
NORTH VALLEY CULVERT OVER CAMP CREEK

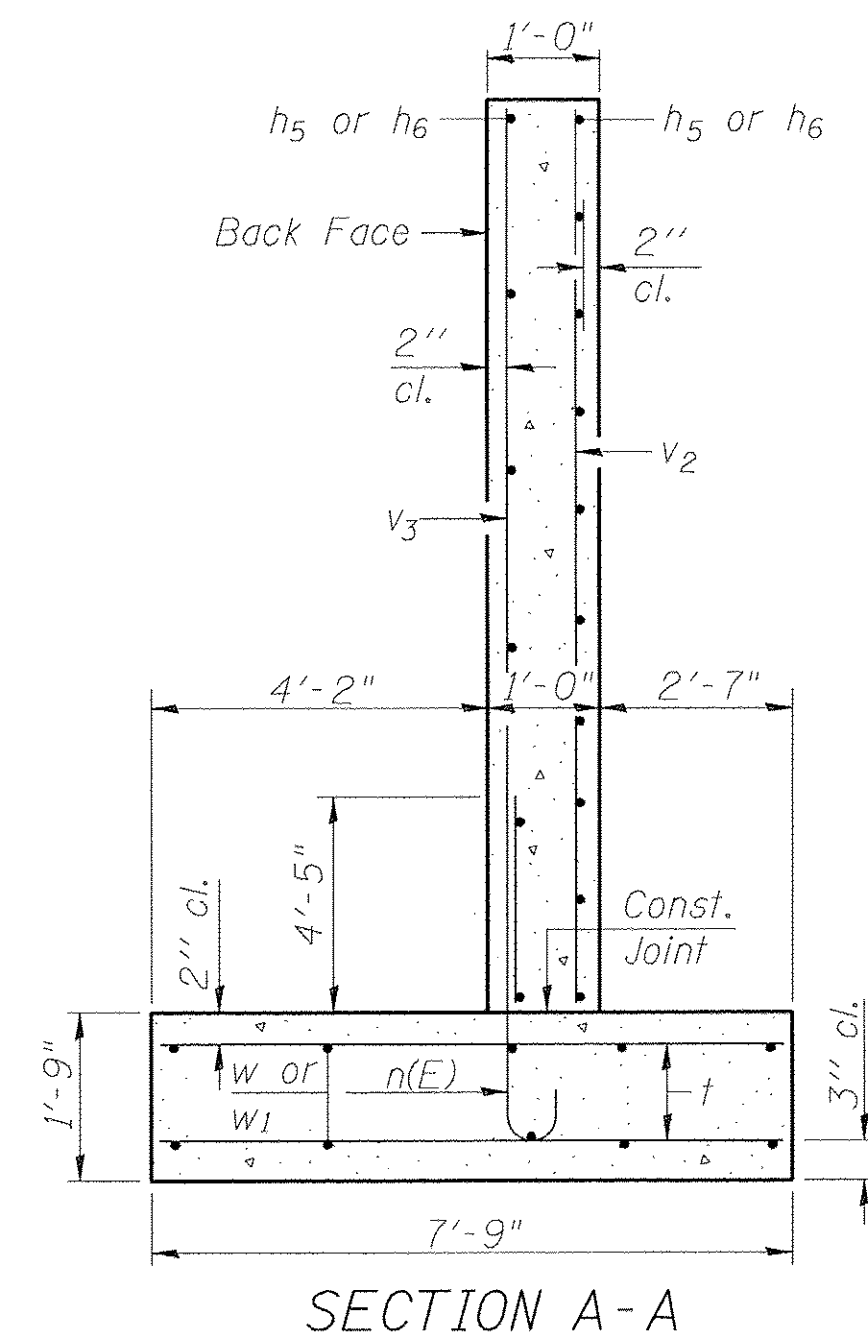
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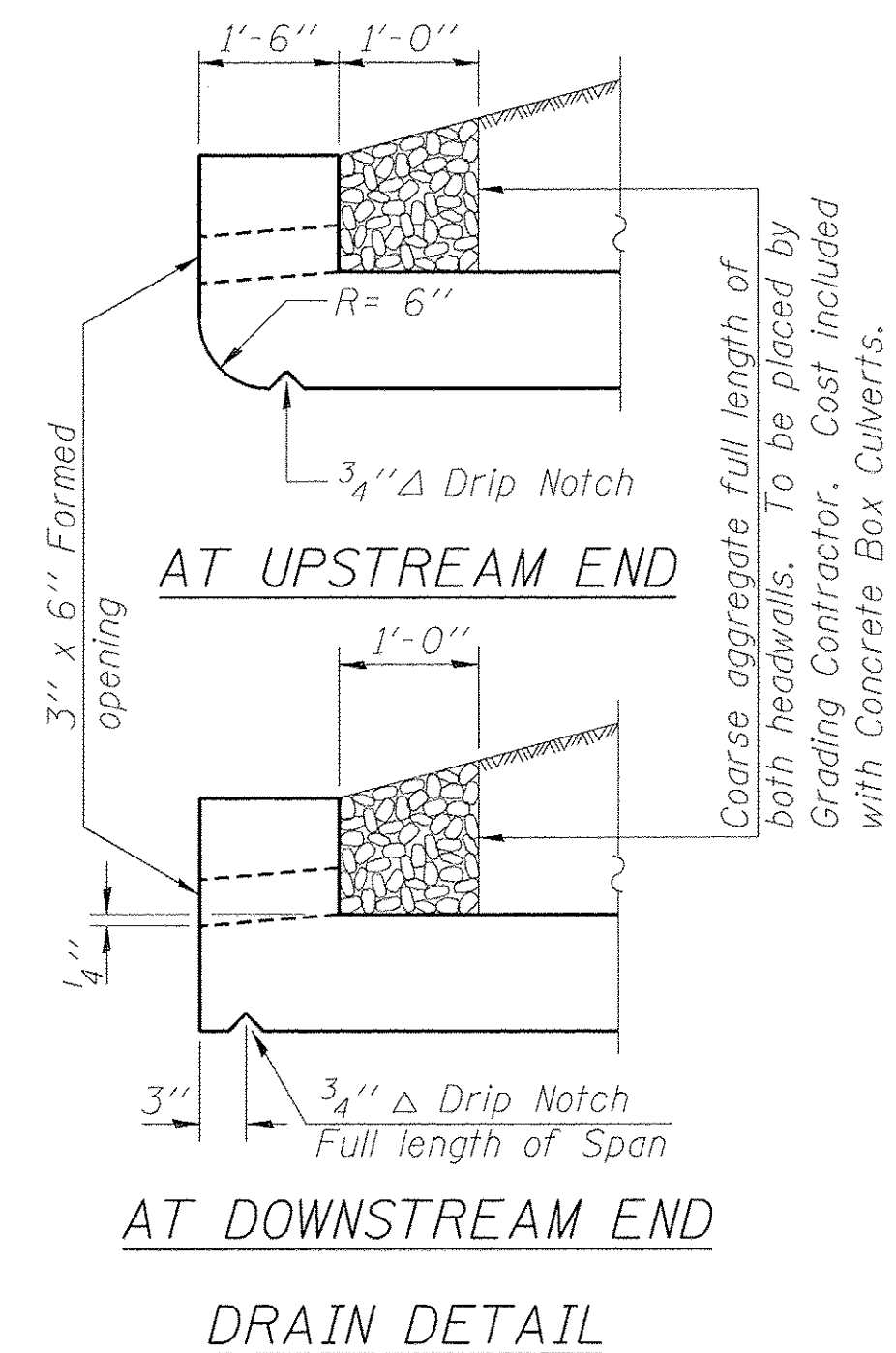


REINFORCEMENT BACK FACE





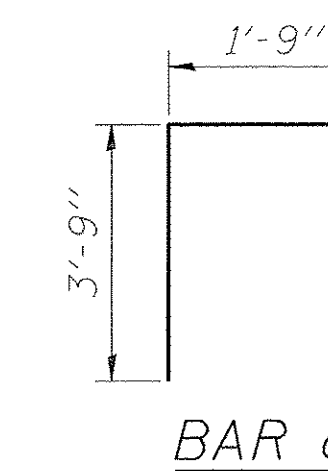
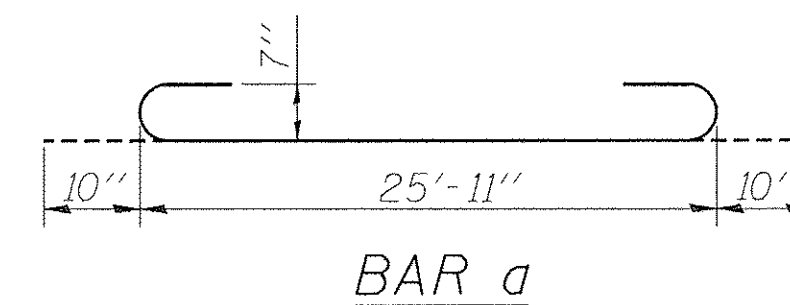
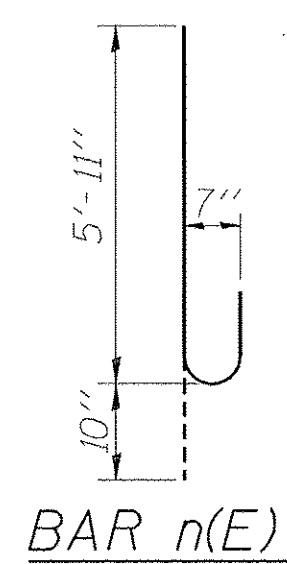
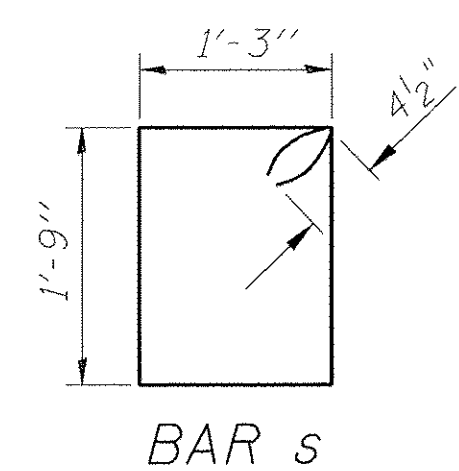
Note: Max. Service I Bearing Pressure $Q_{max} = 2620$ psf

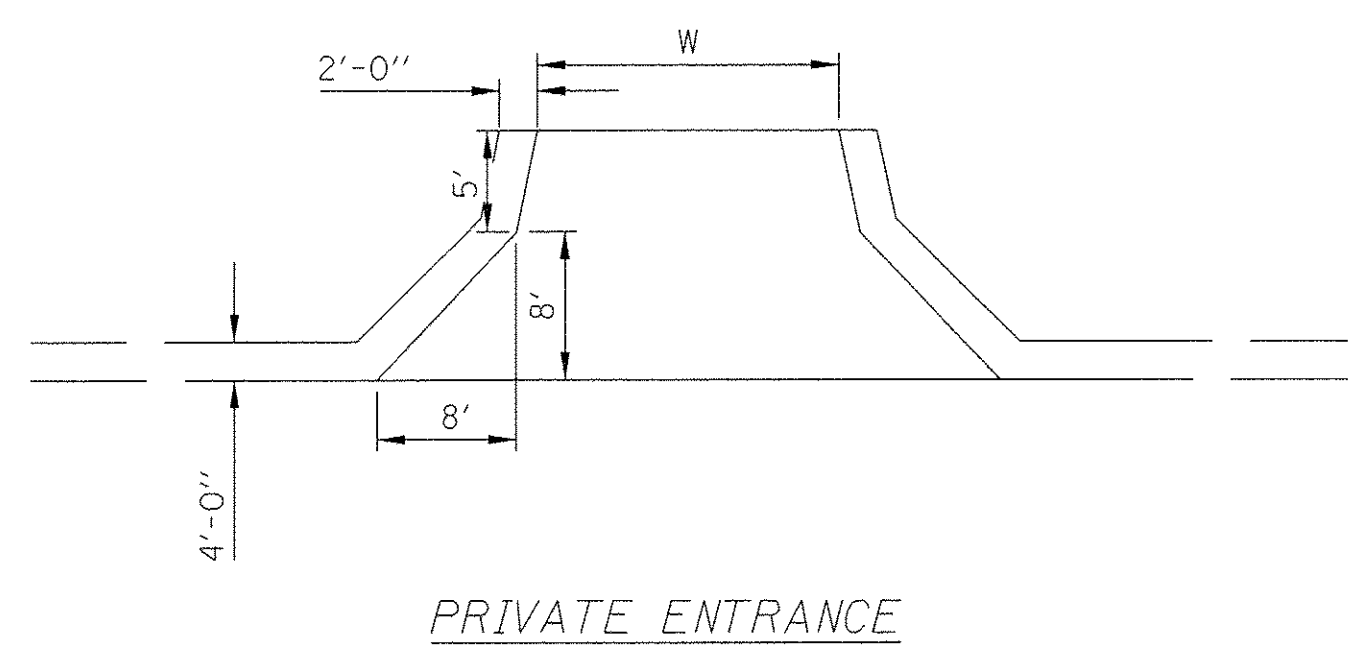
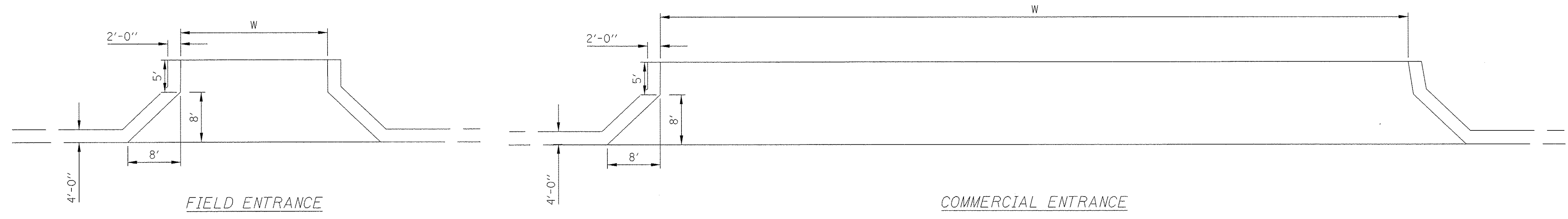


Notes:
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 12x4- #5 etc. indicates 12 lines of bars with 4 lengths per line.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	130	#7	27'-7"	
a1	130	#7	25'-11"	
d	84	#4	5'-6"	
h	54	#6	48'-10"	
h1	54	#6	48'-10"	
h2	30	#5	48'-11"	
h3	6	#8	31'-8"	
h4	12	#7	31'-8"	
h5	40	#4	10'-10"	
h6	40	#4	21'-4"	
h7	6	#4	31'-8"	
n(E)	116	#7	6'-9"	
s	64	#4	6'-9"	
t	164	#5	7'-5"	
v	255	#6	9'-6"	
v1	255	#6	4'-3"	
v2	25	#4	21'-1"	
v3	58	#6	21'-1"	
v4	8	#6	10'-3"	
v5	8	#6	6'-11"	
w	36	#4	21'-4"	
w1	36	#4	10'-10"	
Concrete Box Culverts			Cu. Yd.	231
Reinforcement Bars, Epoxy Coated			Pound	1600
Reinforcement Bars			Pound	36240





ENTRANCES						
LOCATION	TYPE	PROPOSED WIDTH	PROPOSED LENGTH	PROPOSED SURFACE	INCIDENTAL HMA SURFACING	AGGREGATE BASE COURSE, TYPE B
		FEET	FEET		TON	TON
LT. STA. 13+18.60	F.E.	21	13	AGG		2
RT. STA. 13+38.34	P.E.	16	13	HMA	7	
LT. STA. 14+87.39	F.E.	16	13	AGG		2
RT. STA. 14+93.60	C.E.	112.5	13	HMA	39	
RT. STA. 22+04.15	F.E.	28	13	AGG		2

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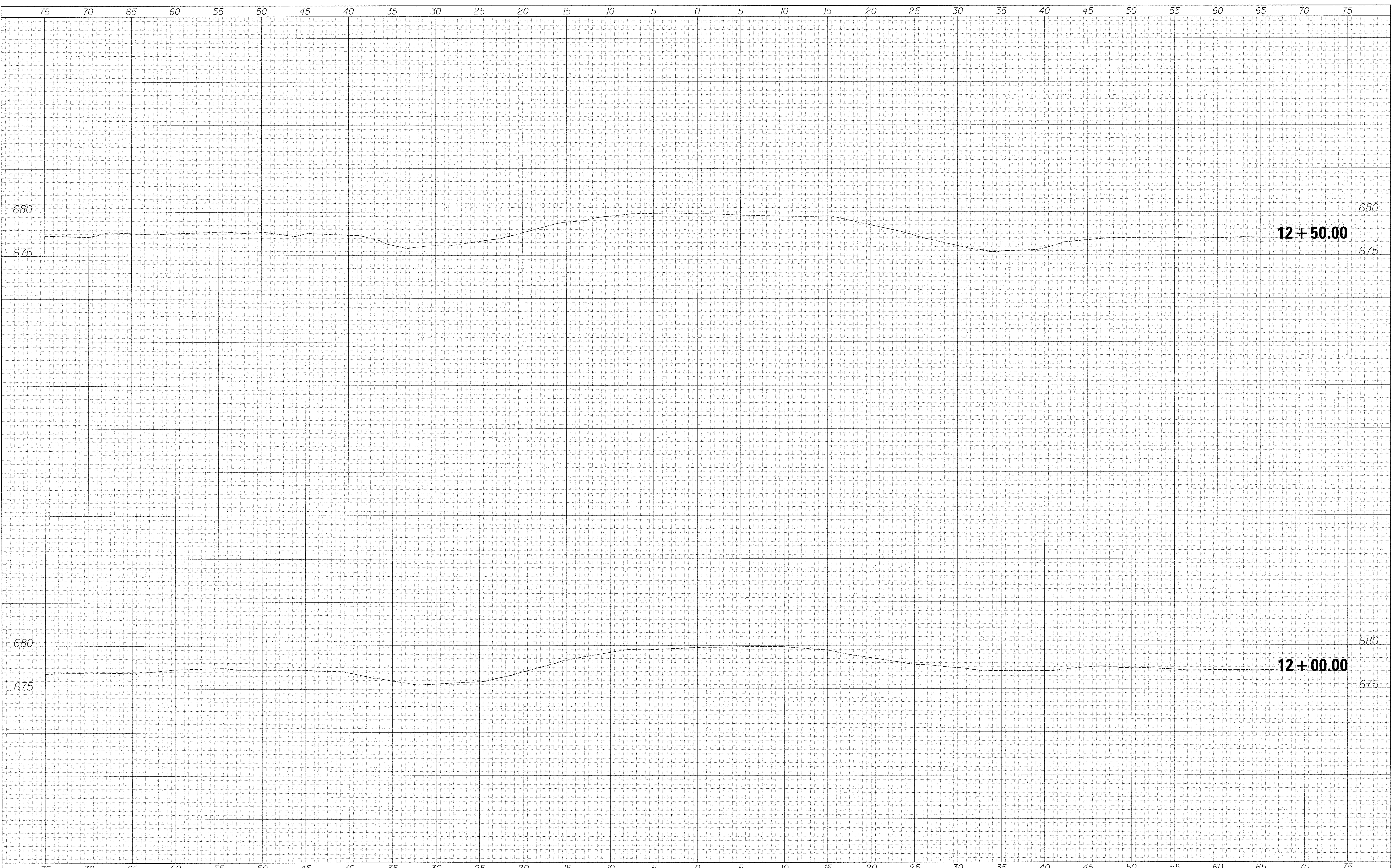
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE DETAILS
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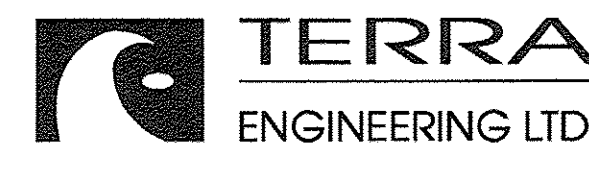
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CONTRACT NO. 89637			ILLINOIS FED. AID PROJECT	

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**COUNTY OF STARK
 STARK COUNTY HIGHWAY DEPARTMENT**

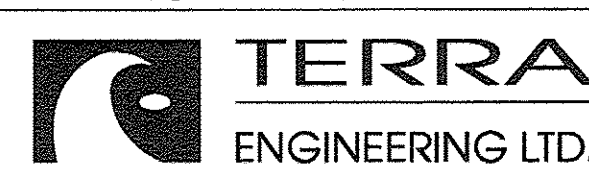
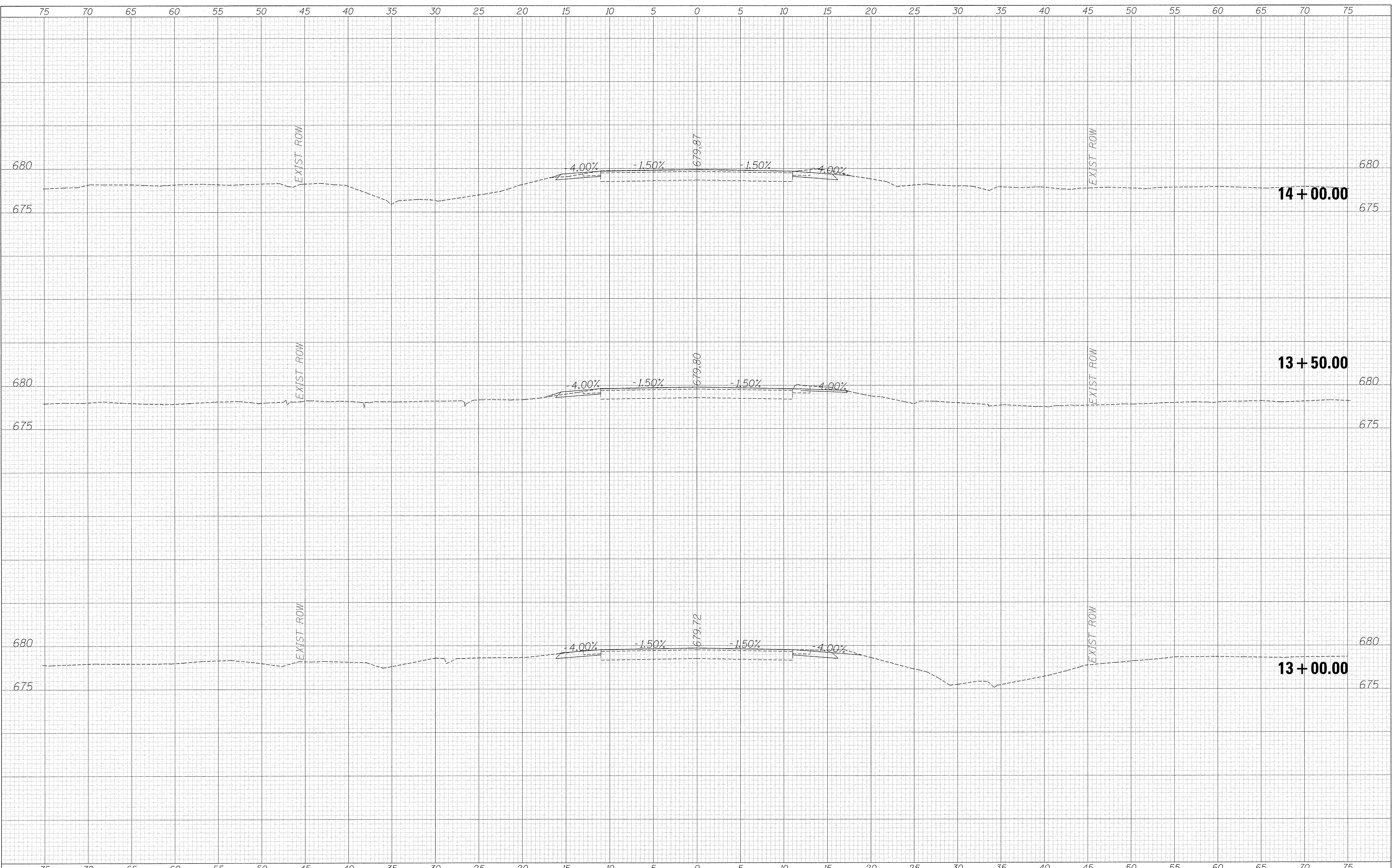
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 NORTH VALLEY RD OVER CAMP CREEK**
 SCALE: SHEET 2 OF 15 SHEETS STA. 12+00.00 TO STA. 12+50.00

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CONTRACT NO. 89637				
ILLINOIS FED. AID PROJECT				

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**COUNTY OF STARK
 STARK COUNTY HIGHWAY DEPARTMENT**

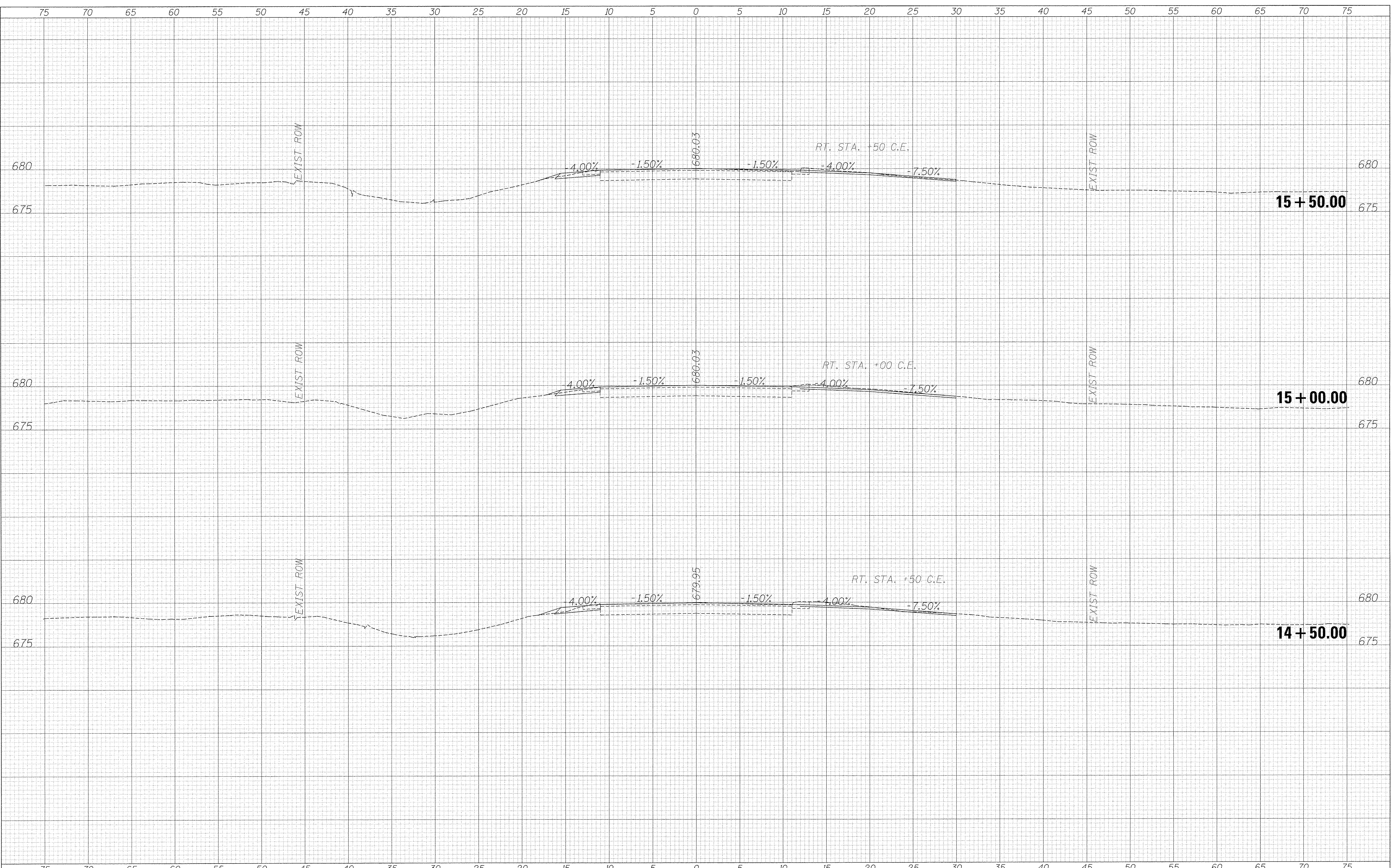
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 NORTH VALLEY RD OVER CAMP CREEK**
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ILLINOIS FED. AID PROJECT				

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**COUNTY OF STARK
 STARK COUNTY HIGHWAY DEPARTMENT**

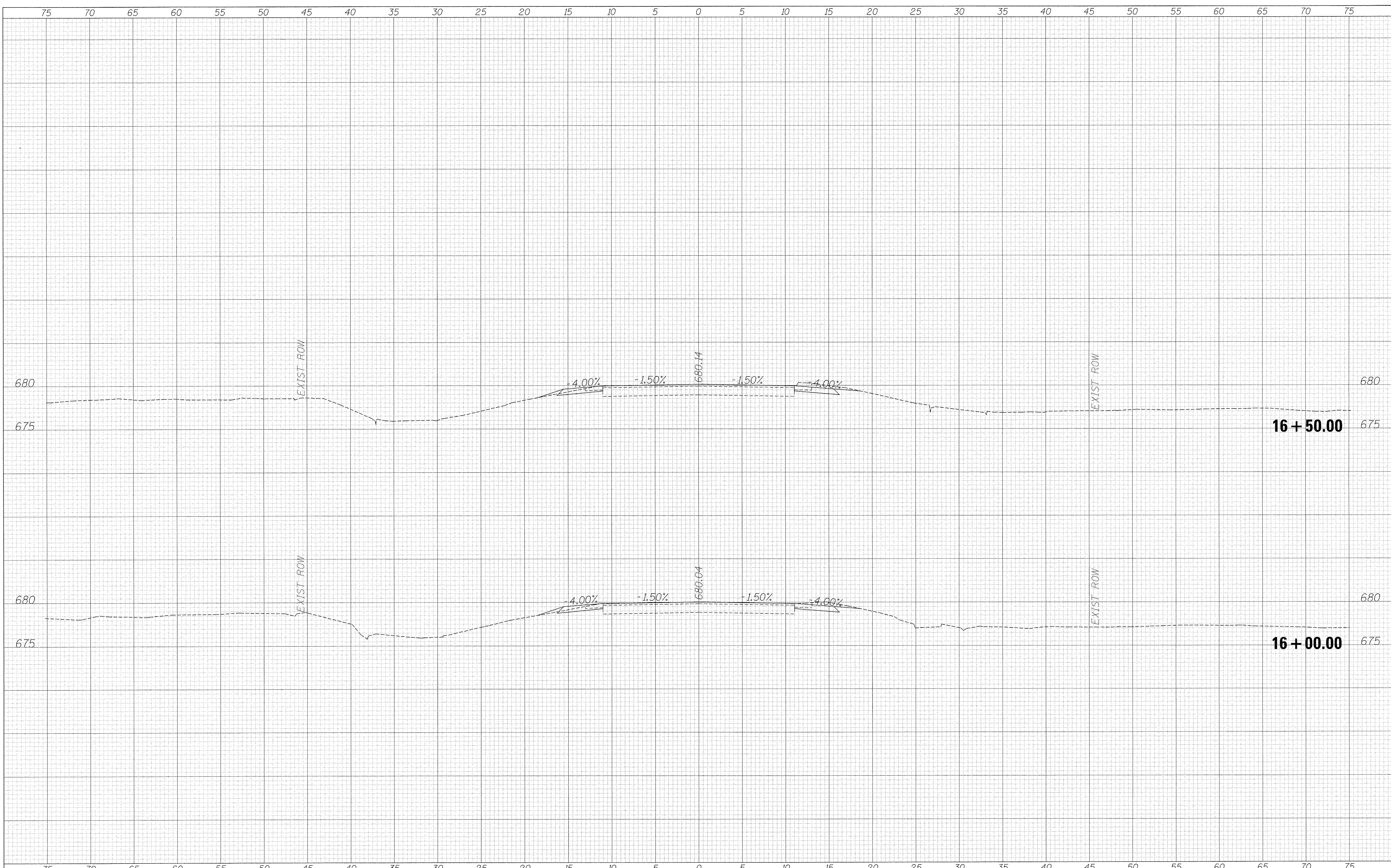
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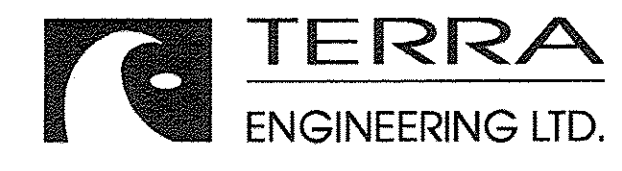
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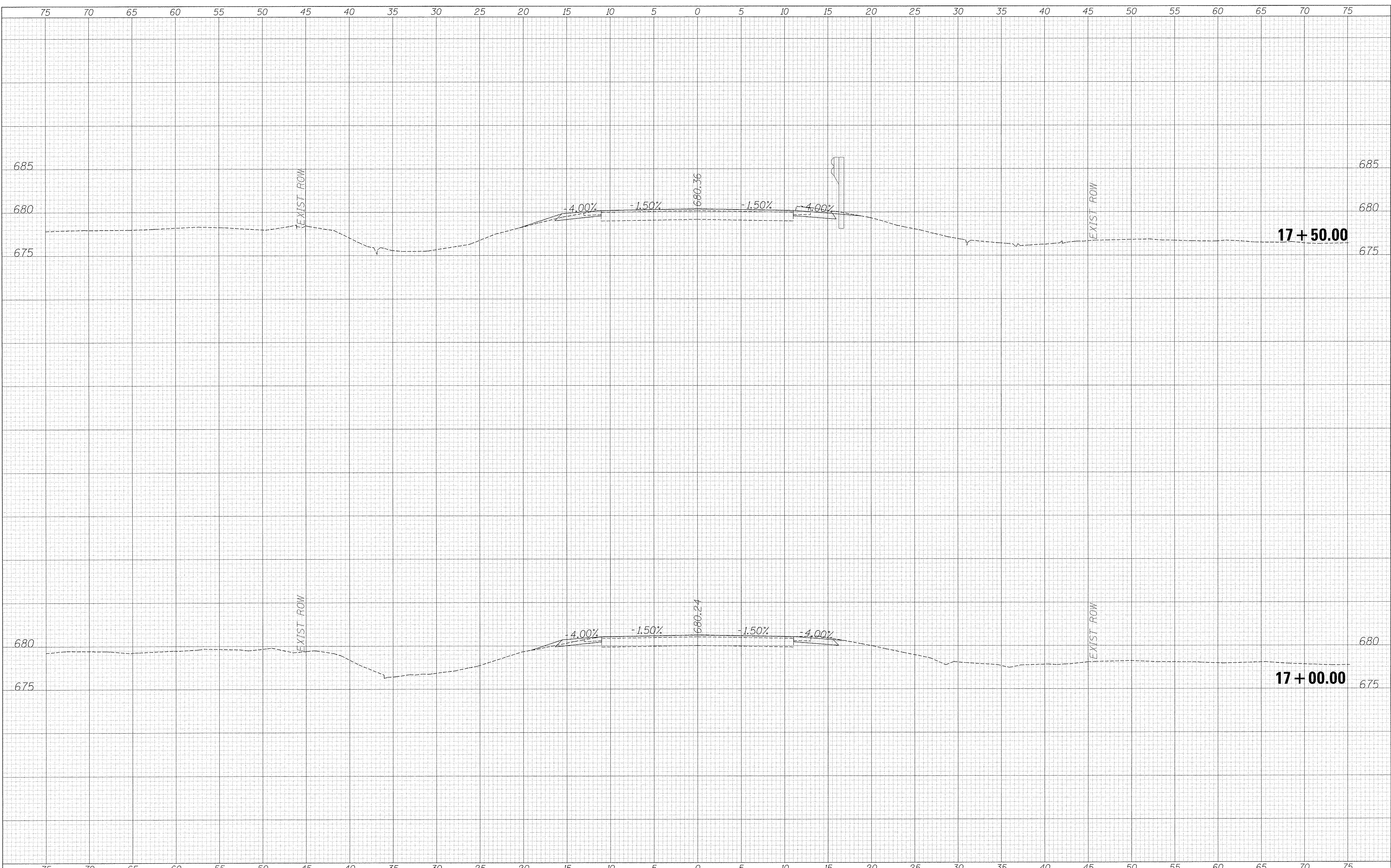
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 STARK COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
 NORTH VALLEY RD OVER CAMP CREEK**
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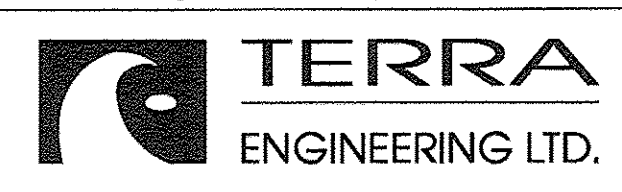
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STARK COUNTY HIGHWAY DEPARTMENT

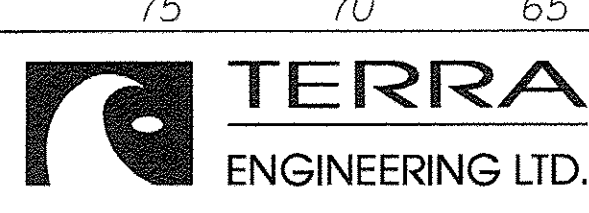
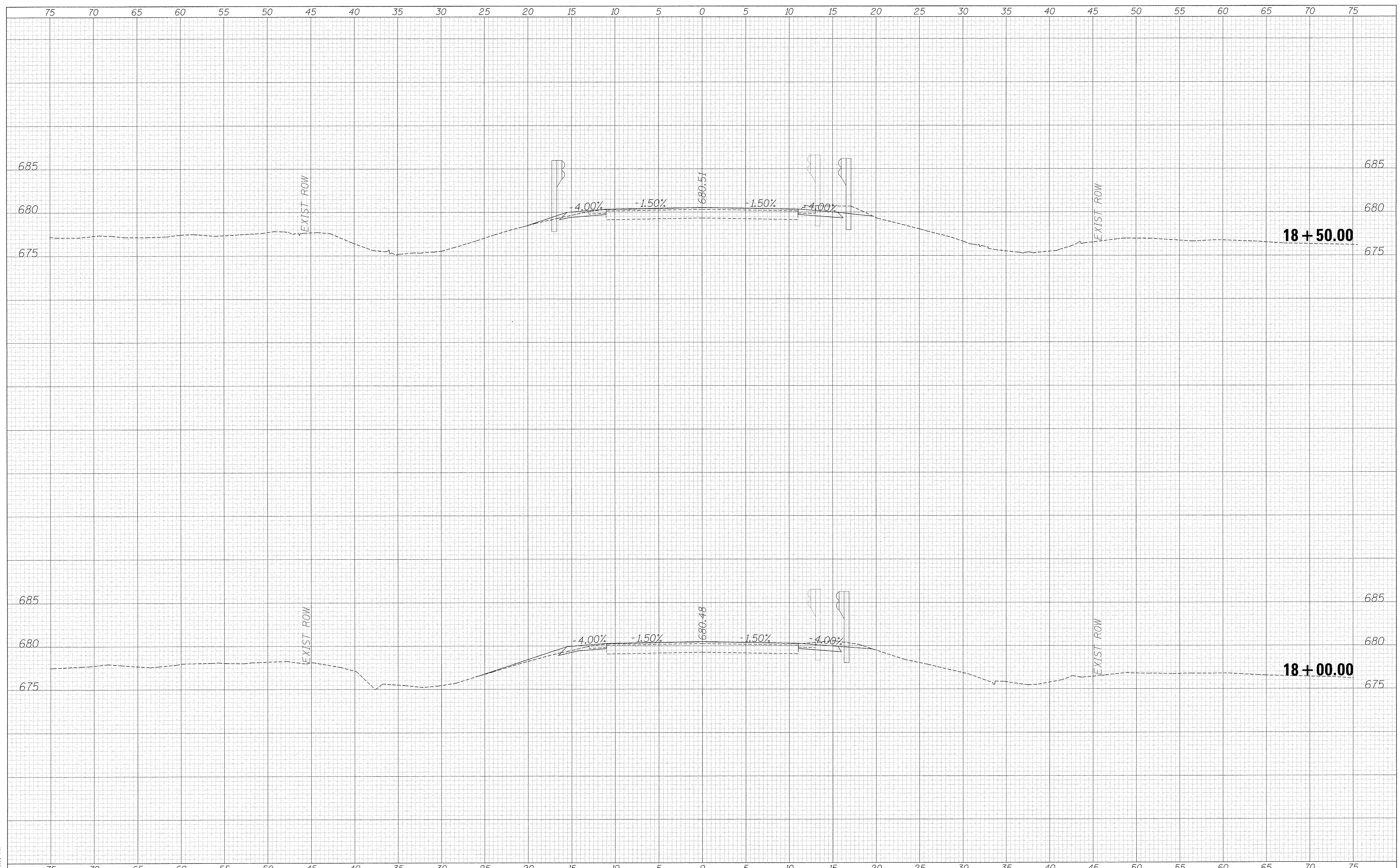
STATION CROSS SECTIONS	
NORTH VALLEY RD OVER CAMP CREEK	
SCALE:	SHEET 6 OF 15 SHEETS STA. 17+00.00 TO STA. 17+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	28	21
CONTRACT NO. 89637			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SUPERVISED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SUPERVISED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

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PLOT DATE = 12/20/2016	DATE -	REVISED -

**COUNTY OF STARK
 STARK COUNTY HIGHWAY DEPARTMENT**

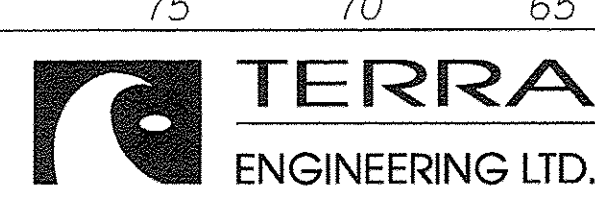
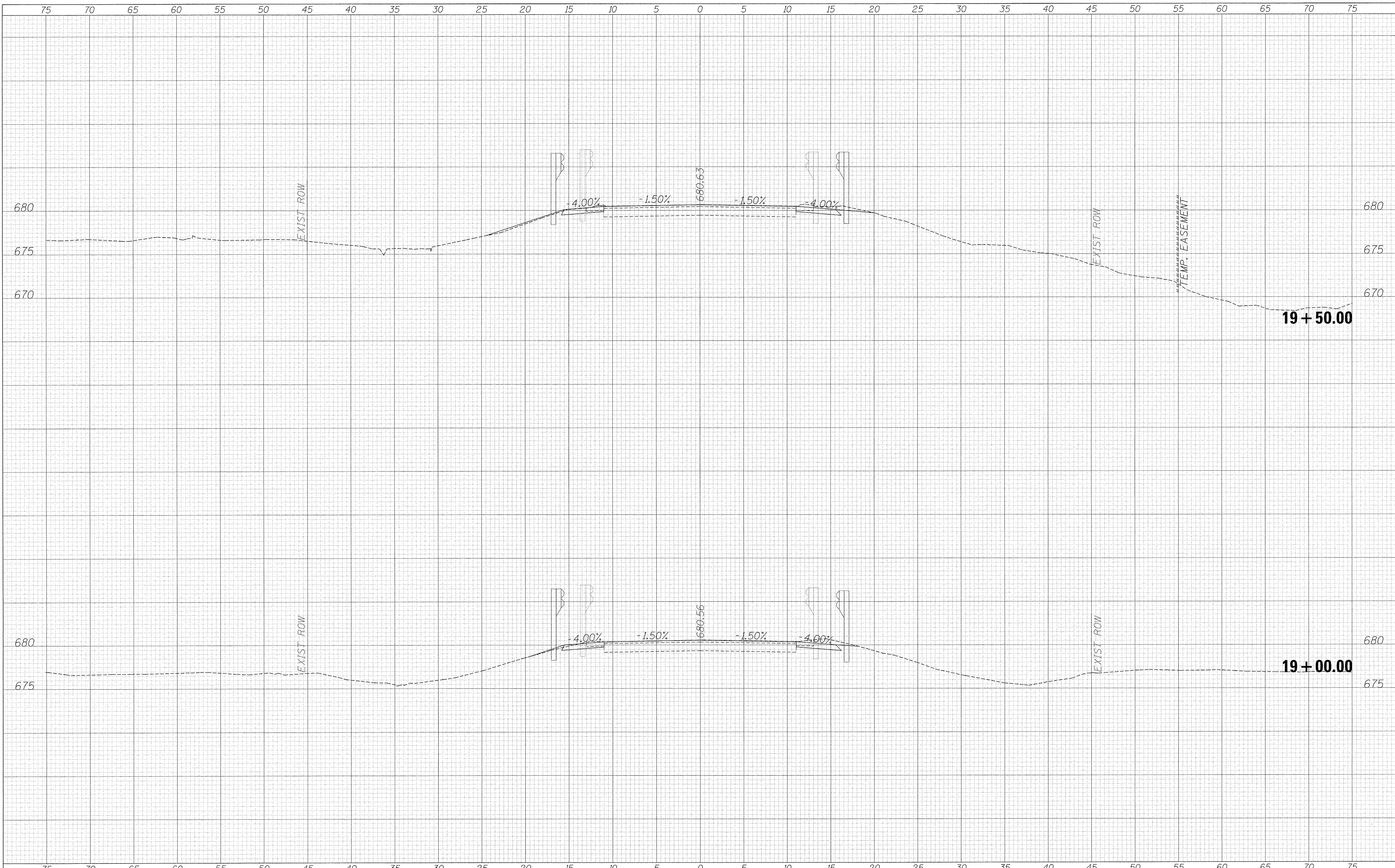
STATION CROSS SECTIONS	
NORTH VALLEY RD OVER CAMP CREEK	
SCALE:	SHEET 7 OF 15 SHEETS STA. 18+00.00 TO STA. 18+50.00

F.A.S. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 28	SHEET NO. 22
CONTRACT NO. 89637			ILLINOIS FED. AID PROJECT	

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

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

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COUNTY OF STARK
STARK COUNTY HIGHWAY DEPARTMENT

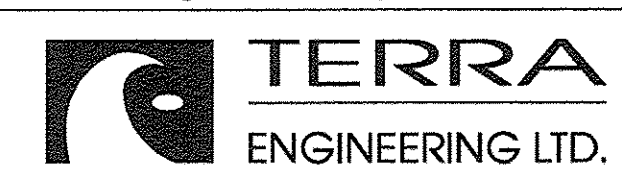
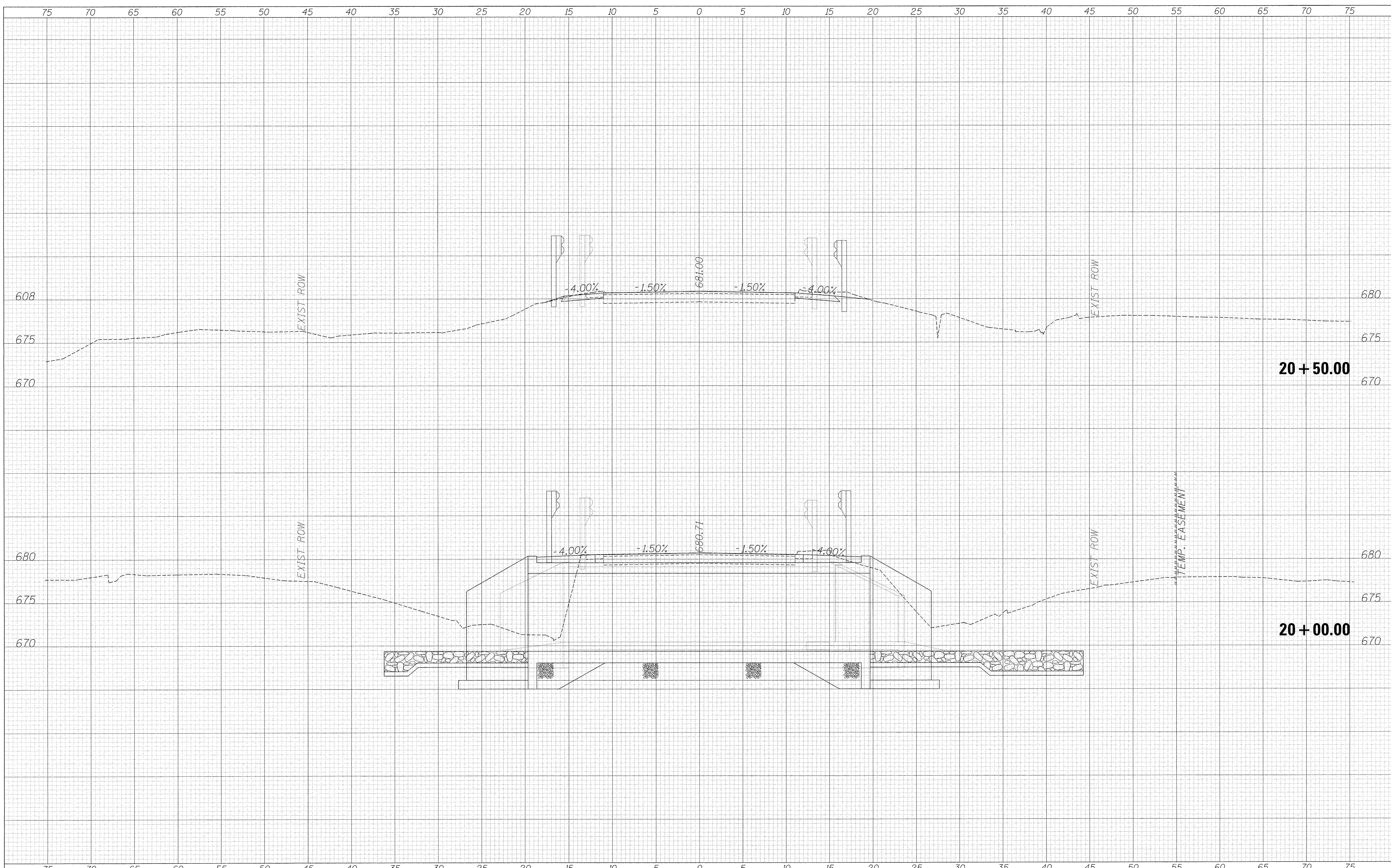
STATION CROSS SECTIONS
NORTH VALLEY RD OVER CAMP CREEK
 SCALE: SHEET 8 OF 15 SHEETS STA. 19+00.00 TO STA. 19+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	28	23
CONTRACT NO. 89637			ILLINOIS FED. AID PROJECT	

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

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

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COUNTY OF STARK
 STARK COUNTY HIGHWAY DEPARTMENT

SCALE: SHEET 9 OF 15 SHEETS STA. 20+00.00 TO STA. 20+50.00

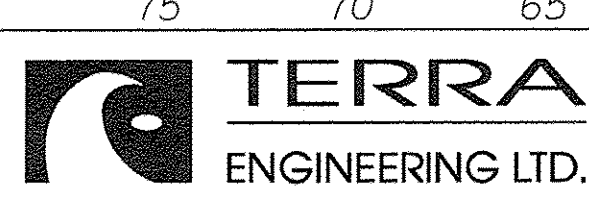
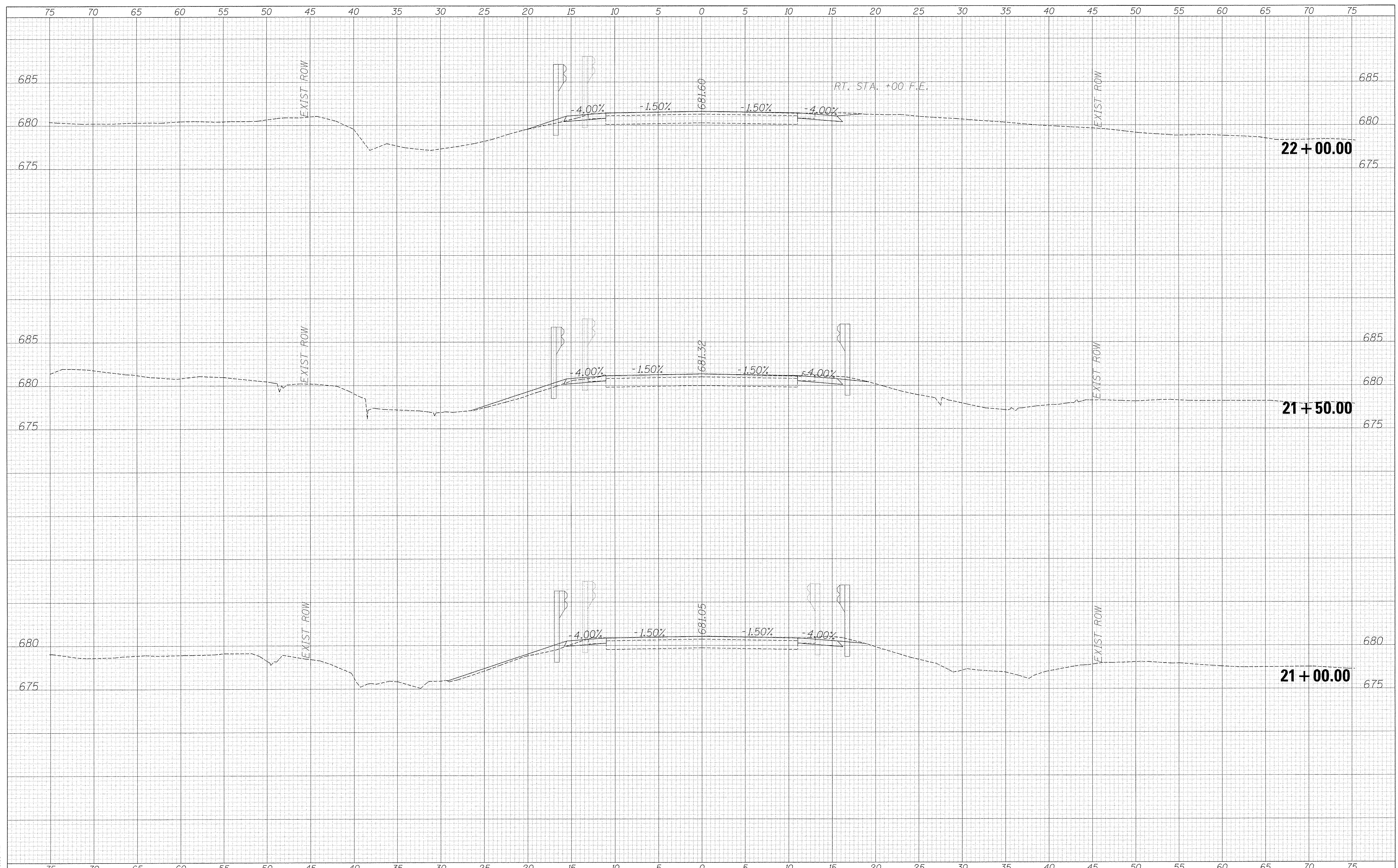
STATION CROSS SECTIONS
 NORTH VALLEY RD OVER CAMP CREEK

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	28	24
CONTRACT NO. 89637			ILLINOIS FED. AID PROJECT	

DATE: _____
 BY: _____
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 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

DATE: _____
 BY: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
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	DATE -	REVISED -

COUNTY OF STARK
STARK COUNTY HIGHWAY DEPARTMENT

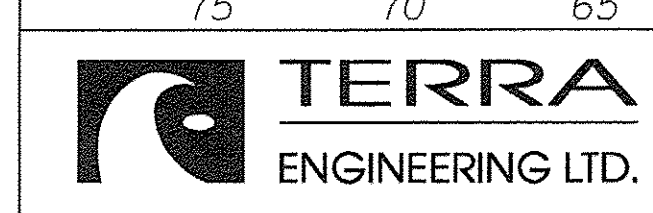
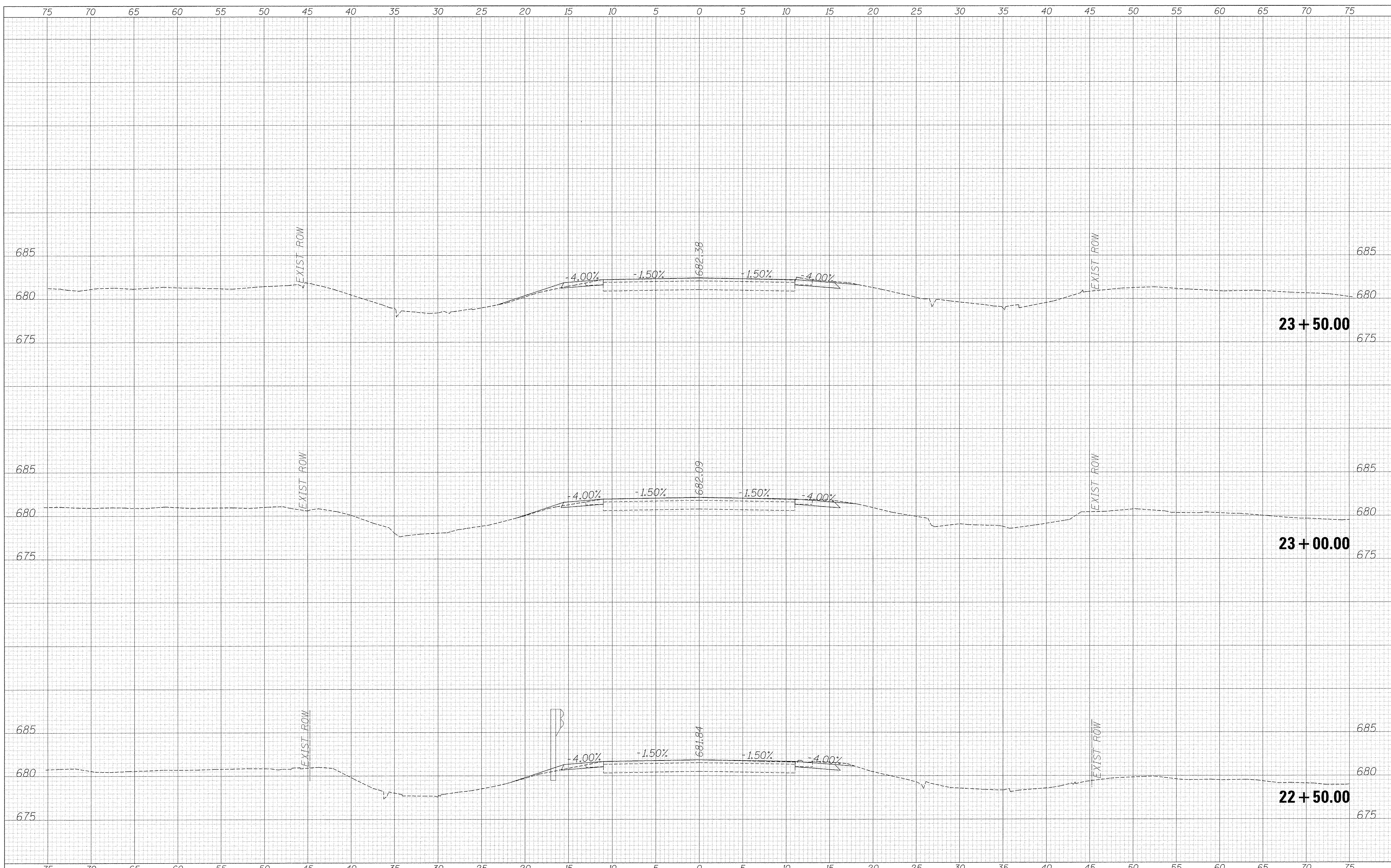
STATION CROSS SECTIONS	
NORTH VALLEY RD OVER CAMP CREEK	
SCALE:	SHEET 10 OF 15 SHEETS STA. 21+00.00 TO STA. 22+00.00

F.A.S. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 28	SHEET NO. 25
				CONTRACT NO. 89637
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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PLOT DATE = 12/20/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**COUNTY OF STARK
 STARK COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
 NORTH VALLEY RD OVER CAMP CREEK**

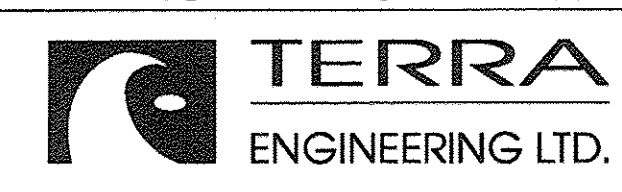
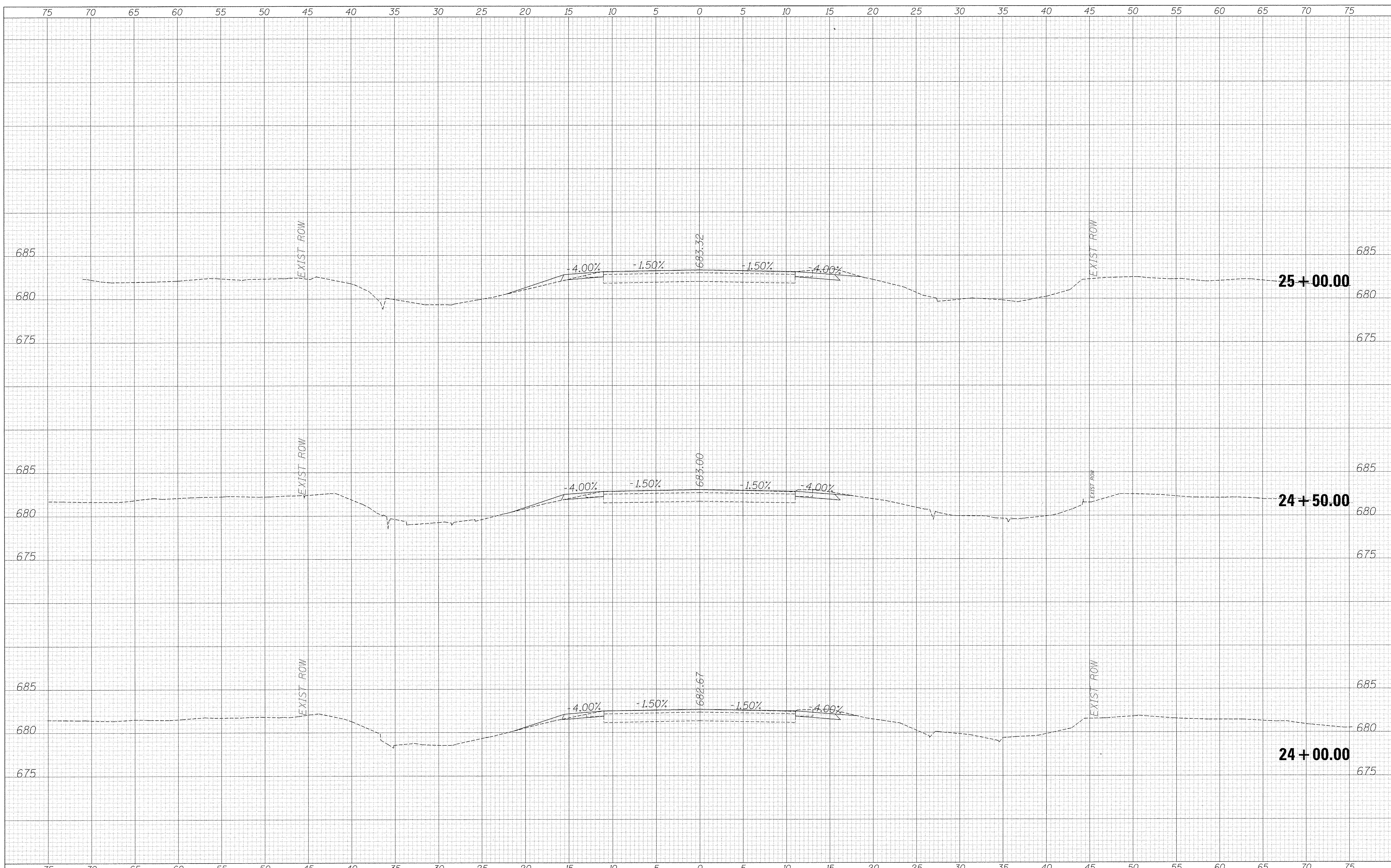
SCALE: SHEET 11 OF 15 SHEETS STA. 22+50.00 TO STA. 23+50.00

F.A.S. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 28	SHEET NO. 26
CONTRACT NO. 89637				ILLINOIS FED. AID PROJECT

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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ORIGINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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**COUNTY OF STARK
 STARK COUNTY HIGHWAY DEPARTMENT**

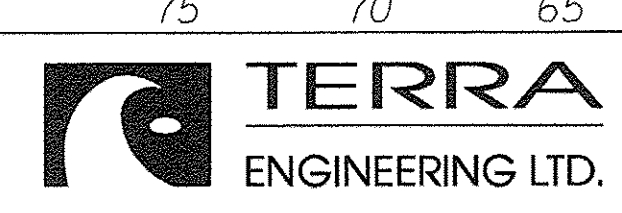
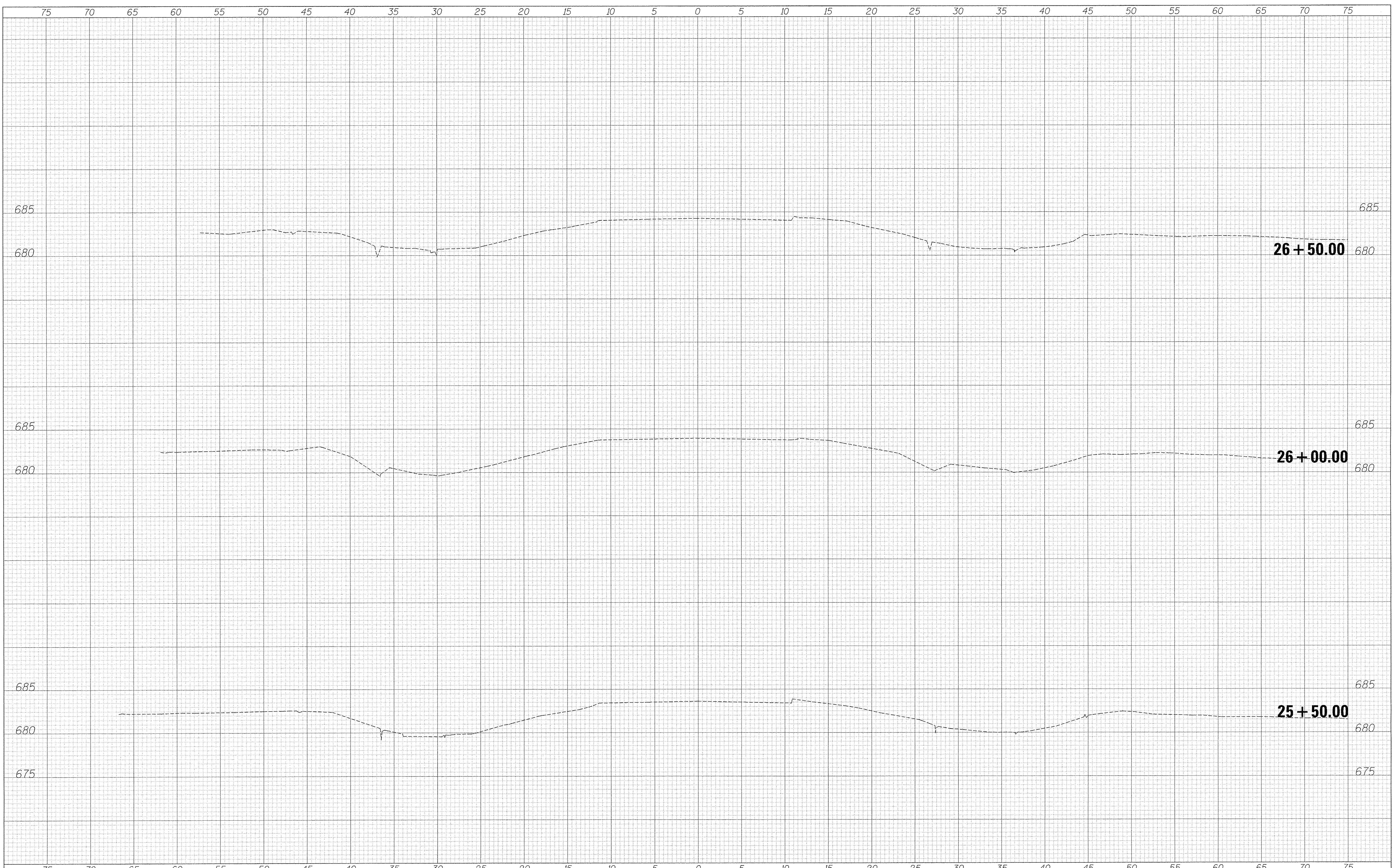
**STATION CROSS SECTIONS
 NORTH VALLEY RD OVER CAMP CREEK**
 SCALE: SHEET 12 OF 15 SHEETS STA. 24+00.00 TO STA. 25+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	28	27
				CONTRACT NO. 89637
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEYED		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
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COUNTY OF STARK
STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS	
NORTH VALLEY RD OVER CAMP CREEK	
SCALE:	SHEET 13 OF 15 SHEETS STA. 25+50.00 TO STA. 26+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	28	28
				CONTRACT NO. 89637
ILLINOIS FED. AID PROJECT				