

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP-4;CR-2)	HENDERSON	24	1
		ILLINOIS	CONTRACT NO. 68H98	

INDEX OF SHEETS

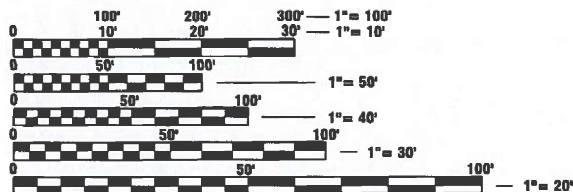
- 1 COVER SHEET
- 2 GENERAL NOTES
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- 7-8 SCHEDULE OF QUANTITIES
- 9 ALIGNMENT SHEET
- 10 TYPICAL SECTIONS
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- 16 REMOVAL PLAN
- 17 SITE PLAN
- 18 BOX CULVERT EXTENSION DETAILS
- 19 PIPE CULVERT EXTENSION DETAILS
- 20-24 CROSS SECTIONS

HIGHWAY STANDARDS

000001-08	630001-13	701301-04	725001-01
280001-07	630301-09	701311-03	780001-05
442201-03	701001-02	701321-18	782006-01
606001-08	701006-05	701901-09	
610001-09	701201-05	704001-08	

DESIGN DESIGNATION

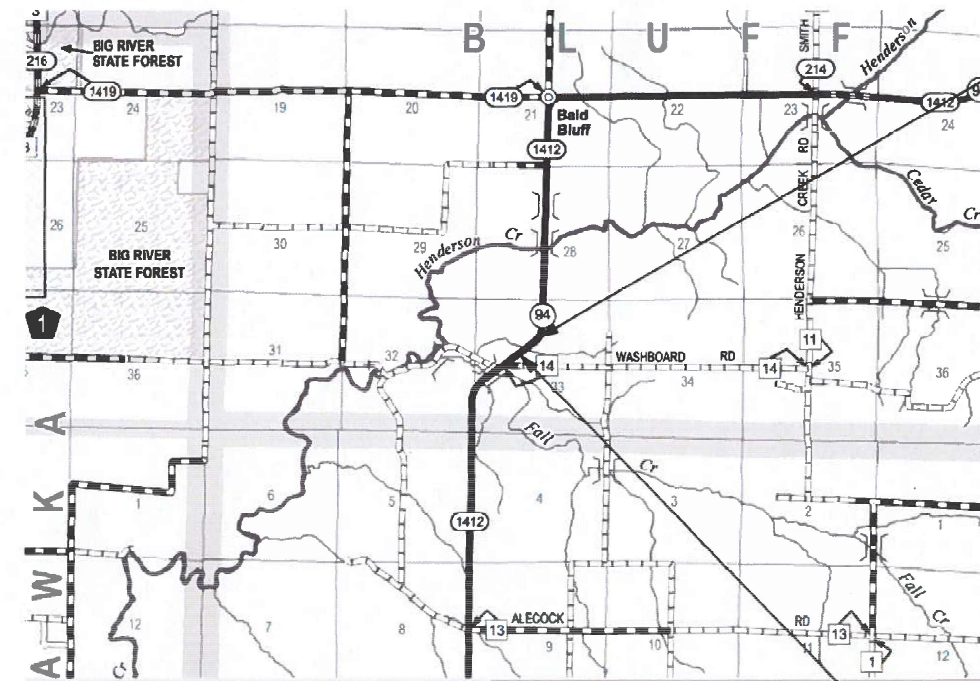
US 94: MAJOR COLLECTOR  
ADT: 350 (2021)  
SU: 30  
MU: 50



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 EXCAVATORS  
1-800-892-0123  
OR 811

PROJECT ENGINEER: BEN TELLEFSON  
PROJECT MANAGER: WILL MOSER  
CATALOG NO. 036464-00D  
CONTRACT NO. 68H98



FAS ROUTE 1412 (IL 94)  
SECTION 106(SLP-4;CR-2)  
SLOPE STABILIZATION AND CULVERT EXTENSION  
HENDERSON COUNTY

C-94-017-24  
R4W

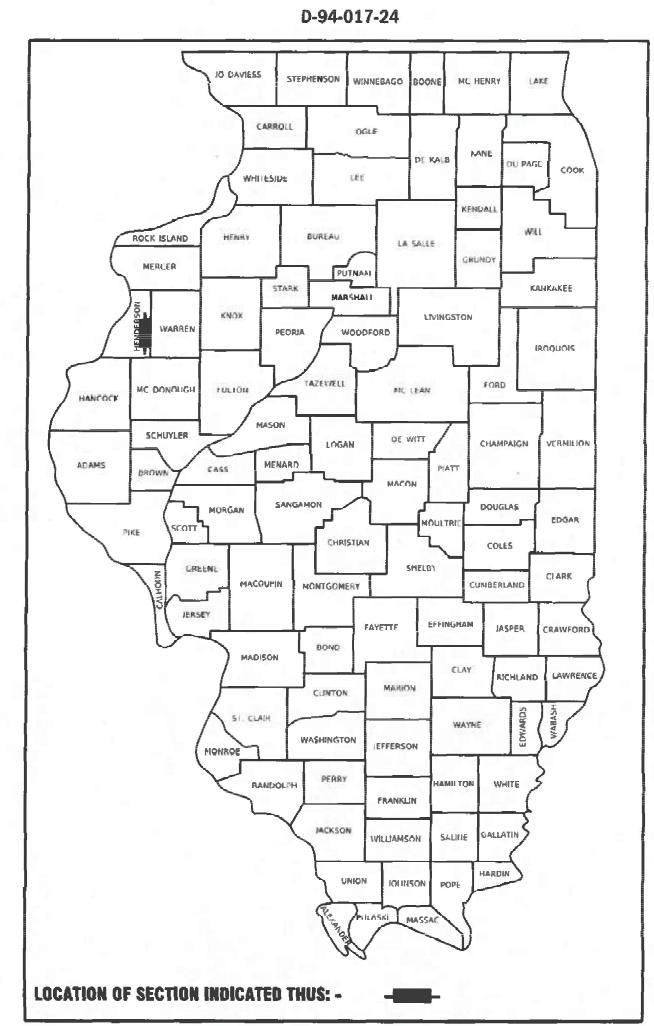
BEGIN IMPROVEMENT  
STA 401 + 37.50

END IMPROVEMENT  
STA 406 + 15.00

GROSS LENGTH = 477.5 FT. = 0.09 MILES  
NET LENGTH = 477.5 FT. = 0.09 MILES

MARK C. LEE DATE

REGISTERED PROFESSIONAL ENGINEER  
STATE OF ILLINOIS NO. 062-060864  
LICENSE EXPIRES NOVEMBER 30, 2025



LOCATION OF SECTION INDICATED THUS: -

PROJECT DESCRIPTION:

SLOPE REPAIR ALONG IL 94

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 21 20 24  
Kensil A. Darveth  
REGIONAL ENGINEER

May 10, 2024 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**KLINGNER**  
& ASSOCIATES, P.C.  
Engineers • Architects • Surveyors  
www.klingner.com  
Galesburg, Illinois Quincy, IL Hannibal, MO  
49 North Prairie Street Burlington, IA Pella, IA Columbia, MO  
309.342.4042 Davenport, IA Carbondale, IL  
DESIGN FIRM NO. 184-2738

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**RATES OF APPLICATION TABLE**

AGGREGATE (SURFACE, BASE, SUBBASE, OR BACKFILL)	1.60 TON / CU YD
STONE DUMPED RIPRAP	1.50 TON / CU YD

**GENERAL NOTES**

1. THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
2. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
3. IN ADDITION TO FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
4. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
5. ANY EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
6. SHOULD THE CONTRACTOR REQUEST OLD/EXISTING STRUCTURE PLANS, THEY CAN CONTACT THE PROJECT ENGINEER OR TEAM ENGINEER AS SHOWN ON THE COVER SHEET.
7. SAW CUTS REQUIRED FOR REMOVAL ITEMS WILL NOT BE PAID FOR SEPARATELY. THE COST OF THE SAW CUTS WILL BE INCLUDED IN THE RESPECTIVE REMOVAL PAY ITEM.
8. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	HMA SURF CSE	SHOULDERS
MIXTURE USE(S):	SHOULDERS TOP LIFT	LOWER LIFTS
AC/PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N DESIGN=50	4.0% @ N DESIGN=50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGREGATE	MIX "D"	N/A
QUALITY	QA/QC	QA/QC
SUB-LOT SIZE	N/A	N/A

**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 (BORROW SITE REVIEW)
- \* 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

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILLED 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.

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.

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**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 N. 24TH ST. QUINCY, ILLINOIS 62301-2172, 223-3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = aschaefer	DESIGNED -	REVISED -
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PLOT DATE = 3/20/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>F.A.S. ROUTE 1412 (IL 94)</b>			
<b>GENERAL NOTES</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP4-CR-2)	HENDERSON	24	2
CONTRACT NO. 68H98				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE								
				HENDERSON COUNTY								
				100% STATE								
				LOCATION #3								
				0005								
RURAL												
20100500	TREE REMOVAL, ACRES	ACRE	0.6	0.6								
20200100	EARTH EXCAVATION	CU YD	225	225								
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	18	18								
20700110	POROUS GRANULAR EMBANKMENT	TON	19	19								
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	28	28								
28000400	PERIMETER EROSION BARRIER	FOOT	500	500								
28000500	INLET AND PIPE PROTECTION	EACH	5	5								
28100107	STONE RIPRAP, CLASS A4	TON	1780	1780								
28200200	FILTER FABRIC	SQ YD	2670	2670								
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	104	104								
44000400	GUTTER REMOVAL	FOOT	54	54								
44004250	PAVED SHOULDER REMOVAL	SQ YD	430	430								
44200144	PAVEMENT PATCHING, TYPE II, 12 INCH	SQ YD	13	13								
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	501	501								

\* = SPECIALTY ITEM



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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**F.A.S. ROUTE 1412 (IL 94)**  
**SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET 1 OF 4 SHEETS    STA.    TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP-4;CR-2)	HENDERSON	24	3
CONTRACT NO. 68H98			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE								
				HENDERSON COUNTY								
				100% STATE								
				LOCATION #3								
				0005								
RURAL												
50800105	REINFORCEMENT BARS	POUND	107	107								
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2								
54002020	EXPANSION BOLTS 3/4 INCH	EACH	40	40								
542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	40	40								
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1								
54248510	CONCRETE COLLAR	CU YD	2.0	2.0								
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	725	725								
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	1								
63200310	GUARDRAIL REMOVAL	FOOT	760	760								
66500105	WOVEN WIRE FENCE, 4'	FOOT	120	120								
67100100	MOBILIZATION	L SUM	1	1								
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1								
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5								

\* = SPECIALTY ITEM



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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**F.A.S. ROUTE 1412 (IL 94)**  
**SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET 2 OF 4 SHEETS    STA.    TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP-4;CR-2)	HENDERSON	24	4
			CONTRACT NO. 68H98	
		ILLINOIS	FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				HENDERSON COUNTY							
				100% STATE							
				LOCATION #3							
				0005							
RURAL											
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1							
70106700	TEMPORARY RUMBLE STRIPS	EACH	8	8							
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14							
70300100	SHORT TERM PAVEMENT MARKING	FOOT	172	172							
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1448	1448							
70307120	TEMPORARY PAVEMENT MARKING - LINE 4"- TYPE IV TAPE	FOOT	4038	4038							
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	22	22							
70400100	TEMPORARY CONCRETE BARRIER	FOOT	700	700							
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	525	525							
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2							
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2							
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1							
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4036	4036							

\* = SPECIALTY ITEM



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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**F.A.S. ROUTE 1412 (IL 94)**  
**SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET 3 OF 4 SHEETS    STA.    TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP-4;CR-2)	HENDERSON	24	5
			CONTRACT NO. 68H98	
		ILLINOIS FED. AID PROJECT		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE								
				HENDERSON COUNTY								
				100% STATE								
				LOCATION #3								
				0005								
RURAL												
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	11	11								
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	841	841								
* X0326899	SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	2	2								
X1200140	PRECAST CONCRETE BOX CULVERT (SPECIAL)	FOOT	15	15								
X6050700	REMOVE INLET BOX	EACH	2	2								
X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	120	120								
X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1								
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1								
* Z0054500	ROCK FILL	TON	37	37								

\* = SPECIALTY ITEM

**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 N. 24TH ST. QUINCY, ILLINOIS 62001-2117 233-3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 164-2738

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DATE -	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.S. ROUTE 1412 (IL 94)  
SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET 4 OF 4 SHEETS    STA.    TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP-4;CR-2)	HENDERSON	24	6
CONTRACT NO. 68H98			ILLINOIS FED. AID PROJECT	

TREE REMOVAL, ACRES

20100500				
STATION TO STATION	SIDE	WIDTH	ACRE	
IL 94				
401+00.00	405+76.12	LT	VARIES	0.35
401+62.62	404+49.83	RT	VARIES	0.21
TOTAL				0.56
USE				0.60

REMOVE INLET BOX

X6050700		
STATION	SIDE	EACH
IL 94		
401+32.50	LT	1
404+05.31	RT	1
TOTAL		2

PAVEMENT PATCHING, TYPE II, 12 INCH

44200144				
STATION TO STATION	SIDE	WIDTH	SQ YD	
IL 94				
401+27.50	401+37.50	LT	11	12.2
TOTAL				12.2
USE				13

EARTH EXCAVATION SCHEDULE

LOCATION STATION TO STATION	SIDE	20200100 EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED (25%)	EMBANKMENT	EARTHWORK BALANCE	
					CU YD	
IL 94						
401+00.00	406+15.00	LT&RT	221	166	59	107
TOTALS				221	166	107
USE				225	170	110

HOT-MIX ASPHALT SHOULDERS, 8"

48203029				
STATION TO STATION	SIDE	SURFACE WIDTH	SQ YD	
IL 94				
401+00.00	405+75.00	LT	6	330.6
401+95.00	404+49.83	RT	6	169.6
TOTAL				500.4
USE				501

GUARDRAIL REMOVAL

63200310			
STATION TO STATION	SIDE	FOOT	
IL 94			
400+97.50	405+67.50	LT	482.6
401+99.83	404+46.00	RT	246.2
404+62.00	404+92.30	RT	30.3
TOTAL			759.2
USE			760

RIPRAP SCHEDULE

STATION TO STATION	SIDE	WIDTH	28100107 28200200	
			STONE RIPRAP, CLASS A4 TON	FILTER FABRIC SQ YD
IL 94				
401+00.00	406+05.00	LT	VARIES	1108.8 1663.1
401+62.33	404+49.83	RT	VARIES	671.3 1007.0
TOTALS				1780.1 2670.1
USE				1780 2670

GUARDRAIL SCHEDULE

STATION TO STATION	SIDE	63000003 63100169 78200005 72501000			
		SPBGR TYPE A 9' POSTS	TRAF BARRIER TERMINAL	GUARDRAIL REFLECTORS	TERMINAL MARKERS
			TYPE 1, SPECIAL (FLARED)	TYPE A	DIRECT APPLIED
		FOOT	EACH		
IL 94					
401+00.00	405+67.50	LT	425.0	1	6 1
401+99.83	404+92.30	RT	300.0		5
TOTALS			725	1	11 1

SUBBASE GRANULAR MATERIAL, TYPE B

31101000				
STATION TO STATION	SIDE	WIDTH	TON	
IL 94				
401+00.00	405+75.00	LT	7.2	67.2
401+95.00	404+49.83	RT	7.2	36.1
TOTAL				103.3
USE				104

WOVEN WIRE FENCE, 4'

66500105			
STATION TO STATION	SIDE	FOOT	
IL 94			
401+82.00	403+02.00	LT	120
TOTAL		120	

MISCELLANEOUS PAVING ITEMS SCHEDULE

NUMBER	ITEM	UNIT	TOTAL
28000400	PERIMETER EROSION BARRIER	FOOT	500

THIS SCHEDULE INCLUDES ESTIMATED QUANTITIES. THEY MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

PAVED SHOULDER REMOVAL

44004250				
STATION TO STATION	SIDE	WIDTH	SQ YD	
IL 94				
401+00.00	401+27.50	LT	VARIES	29.4
401+37.50	405+76.12	LT	VARIES	247.2
402+06.87	404+02.50	RT	VARIES	1203.0
404+08.11	404+49.83	RT	VARIES	19.6
TOTAL				429.8
USE				430

TRAFFIC CONTROL AND PROTECTION

LOCATION	70400100 70400200		70600250	70600350	70400125
	TEMP CONCRETE BARRIER	RELOCATE TEMP CONC BARRIER	IMPACT ATTENUATORS TEMP NR, TL3	IMPACT ATTN RELOCATE NR, TL3	PINNING TEMPORARY CONCRETE BARRIER
	FOOT	FOOT	EACH	EACH	EACH
IL 94 (STAGE 1)					
400+65.00	405+89.00	525.0	2		120
IL 94 (STAGE 2)					
400+10.00	407+09.00	175.0	525.0	2	162
TOTALS		700	525.0	2	282

MODEL: Defaul...  
 FILE NAME: P:\Caledburg\2\filed\13081\DDOT - DIST 4 - P1B 201-03\Work Order 08 - FY 2023 Slope Repair\18\_Transportation\Location\_3\CADD\_Sheets\007\_008-rt-Schedule\_3.dgn



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.S. ROUTE 1412 (IL 94)  
SCHEDULE OF QUANTITIES**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP4-CR-2)	HENDERSON	24	7
CONTRACT NO. 68H98				
ILLINOIS FED. AID PROJECT				

TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE

70307120

STATION TO STATION	SIDE	DESCRIPTION	WHITE FOOT
IL 94 (STAGE 1)			
398+30.00	408+39.00	LT	EDGE LINE 1009
398+30.00	408+39.00	RT	EDGE LINE 1010
IL 94 (STAGE 2)			
398+30.00	408+39.00	LT	EDGE LINE 1010
398+30.00	408+39.00	RT	EDGE LINE 1009
TOTAL			4038
USE			4038

TEMPORARY RUMBLE STRIPS

70106700

STATION	SIDE	EACH
IL 94		
376+30.00	RT	1
381+30.00	RT	1
386+30.00	RT	1
391+30.00	RT	1
415+39.00	LT	1
420+39.00	LT	1
425+39.00	LT	1
430+39.00	LT	1
TOTAL		8
USE		8

SOLAR - POWERED FLASHING BEACON ASSEMBLY (COMPLETE)

X0326899

STATION	SIDE	EACH
IL 94		
376+30.00	RT	1
430+39.00	LT	1
TOTAL		2
USE		2

TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE

70307210

STATION	SIDE	DESCRIPTION	WHITE FOOT
IL 94			
398+30.00	RT	STOP LINE	11
408+39.00	LT	STOP LINE	11
TOTAL			22
USE			22

SHORT TERM PAVEMENT MARKING

70300100

STATION TO STATION	SIDE	DESCRIPTION	WHITE	YELLOW
			FOOT	
IL 94				
398+30.00	408+39.00	RT	EDGE 40	
399+30.00	408+39.00	LT	EDGE 40	
398+30.00	408+39.00	CL	NO - PASSING	92
TOTALS			80	92
USE			172	

SHORT TERM PAVEMENT MARKING REMOVAL

70300150

STATION TO STATION	SIDE	DESCRIPTION	SQ FT
IL 94 (STAGE 1)			
398+30.00	408+39.00	LT	EDGE LINE 336.3
398+30.00	408+39.00	RT	EDGE LINE 336.7
398+30.00		RT	STOP BAR 22.0
IL 94 (STAGE 2)			
398+30.00	408+39.00	LT	EDGE LINE 336.7
398+30.00	408+39.00	RT	EDGE LINE 336.3
	408+39.00	LT	STOP BAR 22.0
IL 94 (SHORT TERM PAVEMENT MARKINGS)			
398+30.00	408+39.00	RT	EDGE LINE 13.3
398+30.00	408+39.00	LT	EDGE LINE 13.3
398+30.00	408+39.00	CL	CENTERLINE 30.7
TOTAL			1447.3
USE			1448

PAINT PAVEMENT MARKING - LINE 4"

78001110

STATION TO STATION	SIDE	DESCRIPTION	WHITE	YELLOW
			FOOT	
IL 94				
398+30.00	408+39.00	RT	EDGE 1009.0	
399+30.00	408+39.00	LT	EDGE 1009.0	
398+30.00	408+39.00	CL	NO - PASSING	2018.0
TOTALS			2018.0	2018.0
USE			4036	

PAVEMENT MARKING REMOVAL - WATER BLASTING

78300202

STATION TO STATION	SIDE	DESCRIPTION	SQ FT
IL 94			
398+30.00	408+39.00	CL	NO - PASSING 840.8
TOTAL			840.8
USE			841

WOVEN WIRE FENCE REMOVAL

X6650202

STATION TO STATION	SIDE	FOOT
IL 94		
401+82.00	403+02.00	LT 120
TOTAL		120

BOX CULVERT EXTENSION

LOCATION	SIDE	54001001	54248510	50800105	54248510	21001000	Z0054500	X1200140	20201200	20700110
		BOX CULVERT END SECTIONS, CULVERT NO. 1	EXPANSION BOLTS 3/4 INCH	REINFORCEMENT BARS	CONCRETE COLLAR	GEOTECHNICAL FABRIC FOR GROUND STABILIZAION	* ROCK FILL	PRECAST CONCRETE BOX CULVERT (SPECIAL)	* REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	POROUS GRANULAR EMBANKMENT
		EACH	EACH	POUND	CU YD	SQ YD	TON	FOOT	CU YD	TON
402+03.87	LT	1	16	40	0.9	12	17	9	14	17
402+45.98	RT	1	16	40	0.9	10	13	6	11	13
TOTALS		2	32	80	1.8	22	30	15	25	30

PIPE CULVERT EXTENSION

LOCATION	SIDE	542A1063	54213663	54248510	50800105	54248510
		PIPE CULVERTS, TYPE A, TYPE 2 18"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EXPANSION BOLTS 3/4 INCH	REINFORCEMENT BARS	CONCRETE COLLAR
		FOOT	EACH	EACH	POUND	CU YD
401+34.95	LT	40	1	8	27	0.2
TOTALS		40	1	8	27	0.2

\* INCLUDES ESTIMATED QUANTITIES. THEY MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

MODEL: Defaul... FILE NAME: P:\Caledburg\2\Files\13081\_IDOT\_DIST\_4\_-\_PTB\_2010-03\Work Order 08 - FY 2023 Slope Repair\18\_Transportation\Location\_3\CADD\_Sheets\007\_008-rt-Schedule\_3.dgn



USER NAME = aschaefer	DESIGNED -	REVISED -
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PLOT DATE = 5/17/2024	CHECKED -	REVISED -
	DATE -	REVISED -

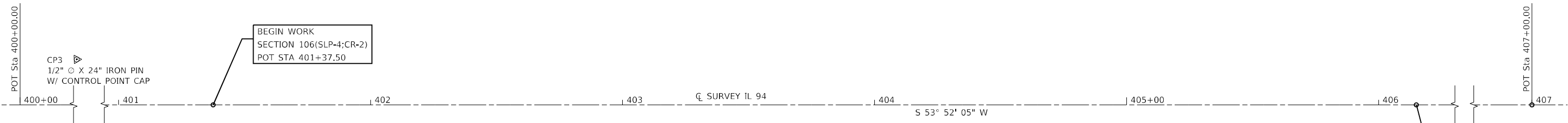
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S. ROUTE 1412 (IL 94) SCHEDULE OF QUANTITIES		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET 2 OF 2 SHEETS	1412	106(SLP-4-CR-2)	HENDERSON	24	8
CONTRACT NO. 68H98		ILLINOIS FED. AID PROJECT				



ALIGNMENT COORDINATES - IL 94			
	STATION	N	E
POT	400+00.00	1,575,774.7702	2,106,403.8704
POT	401+37.50	1,575,752.6585	2,106,373.5830
POT	406+15.00	1,575,412.1380	2,105,907.1583
POT	407+00.00	1,575,362.0181	2,105,838.5071

BENCHMARK AND CONTROL POINT COORDINATES					
	STATION	OFFSET	N	E	ELEVATION
CP3	400+49.86	18.78'RT	1,575,730.2010	2,106,374.6690	606.52
CP4	404+56.59	22.33'LT	1,575,523.5810	2,106,021.9350	616.67
BM #1	401+60.08	20.80'RT	1,575,697.1807	2,106,262.3122	607.60
BM #2	405+17.70	23.20'RT	1,575,488.2489	2,105,972.0612	624.16



BEGIN WORK  
SECTION 106(SLP-4;CR-2)  
POT STA 401+37.50

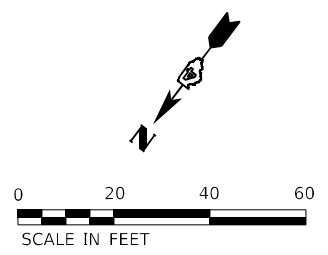
END WORK  
SECTION 106(SLP-4;CR-2)  
POT STA 406+15.00

CP3  
1/2" O X 24" IRON PIN  
W/ CONTROL POINT CAP

CP4  
1/2" O X 24" IRON PIN  
W/ CONTROL POINT CAP

BM #1  
SET 60d NAIL IN  
RETAINING WALL  
ELEV. 607.60

BM #2  
EAST END OF RETAINING  
WALL. TOP OF SOUTH  
EDGE OF I-BEAM AT MIDDLE  
ELEV. 624.16



MODEL: Default  
FILE NAME: P:\Caledonia\211223\Work Order 08 - FY 2023 Slope Repair\18\_Transportation\Location 3\Alignment.dgn  
MODEL: Default  
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**KLINGNER & ASSOCIATES, P.C.**  
Engineers • Architects • Surveyors  
616 N. 24TH ST. QUINCY, ILLINOIS 62301-2172, 223-3670  
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = aschafer	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 3/20/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.S. ROUTE 1412 (IL 94)  
ALIGNMENT SHEET**

SCALE: 1"=20'    SHEET 1 OF 1 SHEETS    STA. 400+00.00 TO STA. 407+00.00

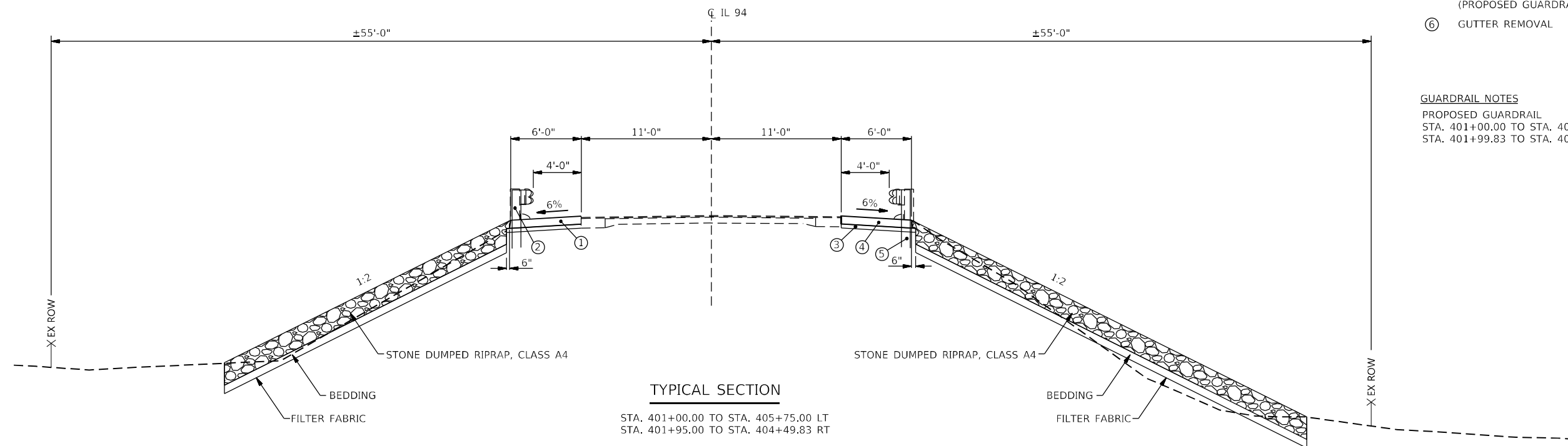
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP-4;CR-2)	HENDERSON	24	9
CONTRACT NO. 68H98				
ILLINOIS FED. AID PROJECT				

**LEGEND**

- ① PAVED SHOULDER REMOVAL  
(REMOVAL OF EXISTING EROSION CONTROL CURB INCLUDED)
- ② GUARDRAIL REMOVAL
- ③ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- ④ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- ⑤ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FT POSTS  
(PROPOSED GUARDRAIL TO BE DRIVEN THROUGH HMA SHOULDERS)
- ⑥ GUTTER REMOVAL

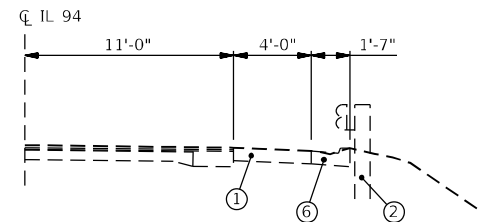
**GUARDRAIL NOTES**

PROPOSED GUARDRAIL  
 STA. 401+00.00 TO STA. 405+67.50 LT  
 STA. 401+99.83 TO STA. 404+92.30 RT



**TYPICAL SECTION**

STA. 401+00.00 TO STA. 405+75.00 LT  
 STA. 401+95.00 TO STA. 404+49.83 RT



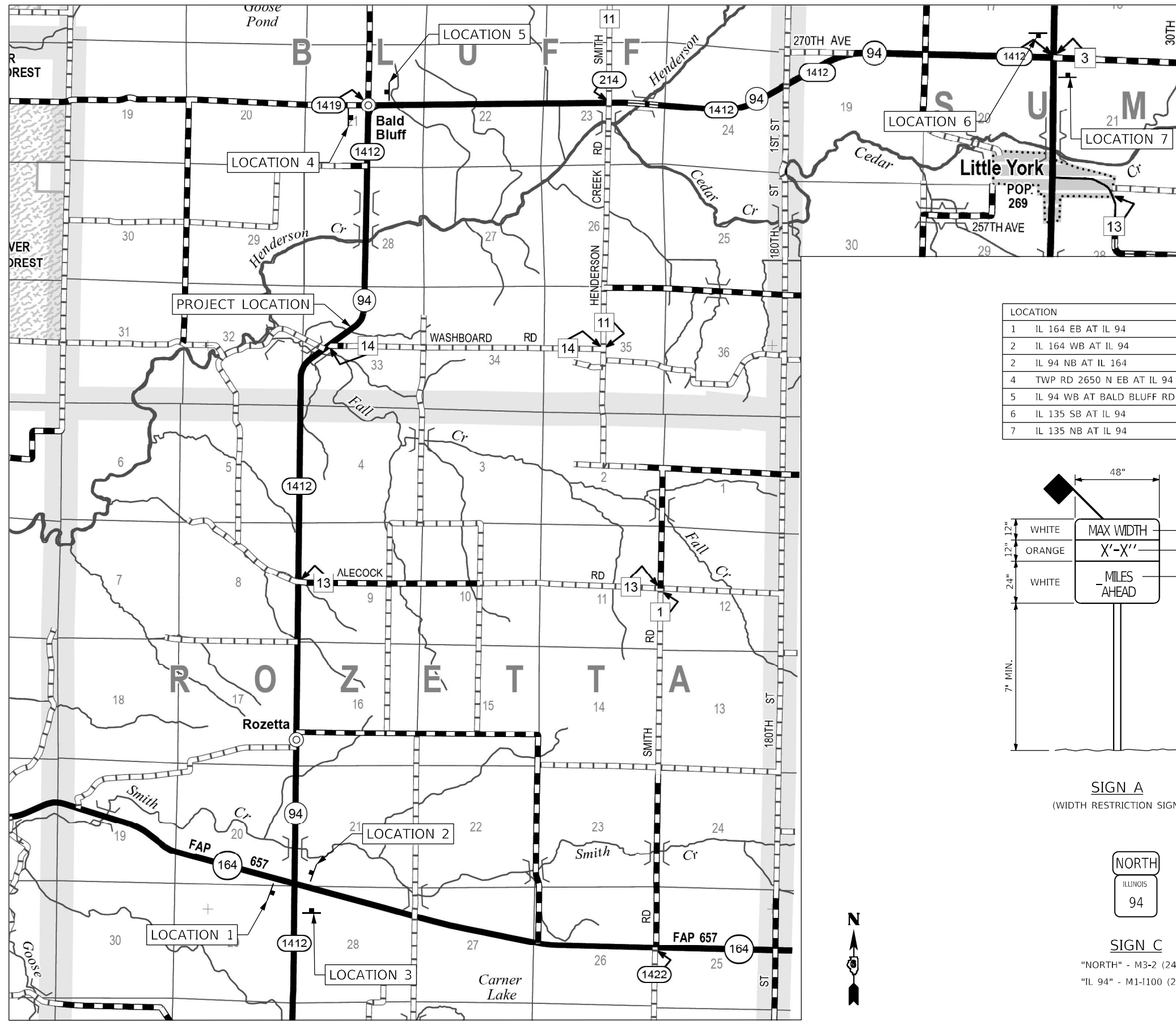
**EXISTING TYPICAL SECTION**

STA. 401+52.33 TO STA. 402+06.87 RT  
 STA. 404+08.11 TO STA. 404+49.83 RT

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USER NAME = aschaefer	DESIGNED -	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 3/20/2024	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP4-CR-2)	HENDERSON	24	10
CONTRACT NO. 68H98				
ILLINOIS FED. AID PROJECT				

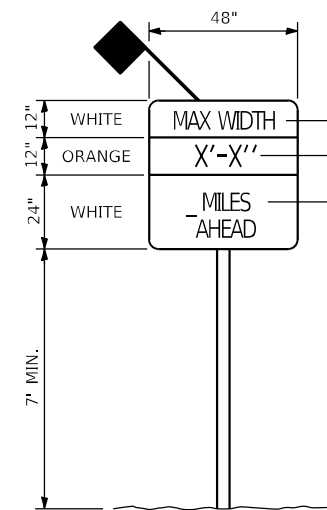


GENERAL NOTES:

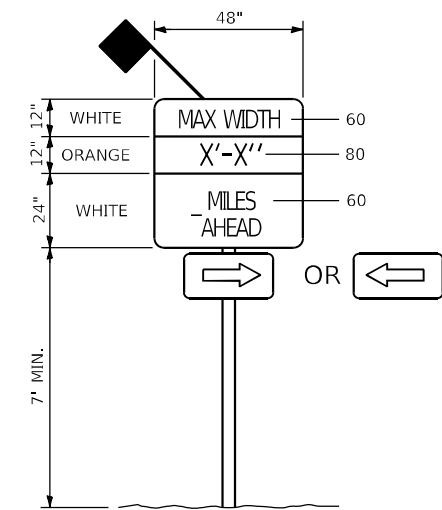
ACTUAL MAXIMUM WIDTH ARE TO BE MEASURED BY THE ENGINEER AFTER TEMPORARY CONCRETE BARRIER WALL IS PLACED FOR STAGE 1. WIDTH SHALL BE REMEASURED AND SIGNS UPDATED FOR STAGE 2.

ALL SIGNS SHALL BE POST MOUNTED IN ACCORDANCE WITH ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LOCATION	SIGN(S)	DISTANCE
1 IL 164 EB AT IL 94	B/C	4.8 MILES
2 IL 164 WB AT IL 94	B/C	4.8 MILES
2 IL 94 NB AT IL 164	A/C	4.9 MILES
4 TWP RD 2650 N EB AT IL 94	B/D	2.1 MILES
5 IL 94 WB AT BALD BLUFF RD	A	2.1 MILES
6 IL 135 SB AT IL 94	B/D	7.7 MILES
7 IL 135 NB AT IL 94	B/D	7.7 MILES



SIGN A  
(WIDTH RESTRICTION SIGN)



SIGN B  
(WIDTH RESTRICTION SIGN)



SIGN C  
"NORTH" - M3-2 (2412)  
"IL 94" - M1-1100 (2424)



SIGN D  
"SOUTH" - M3-4 (2412)  
"IL 94" - M1-1100 (2424)

MODEL: Defaul...  
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 616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = aschaefer	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/20/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S. ROUTE 1412 (IL 94)  
MAXIMUM WIDTH SIGNING DETAIL

SCALE: NONE SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP4-CR-2)	HENDERSON	24	11
CONTRACT NO. 68H98				
ILLINOIS FED. AID PROJECT				

LEGEND	
	DIRECTION OF TRAFFIC
	TYPE III BARRICADE
	TEMPORARY CONCRETE BARRIER
	DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
	TEMPORARY TRAFFIC SIGNAL
	TEMPORARY IMPACT ATTENUATOR
	WORK ZONE
	BIDIRECTIONAL REFLECTORS

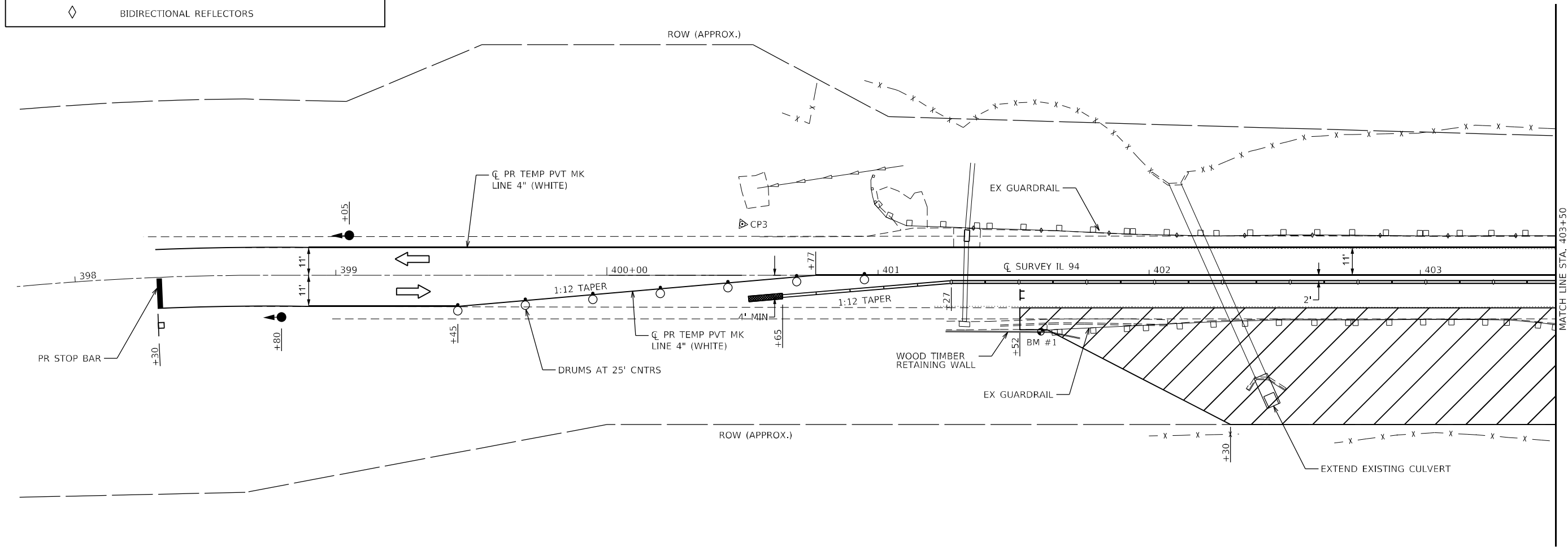
**STAGE CONSTRUCTION SEQUENCE**

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

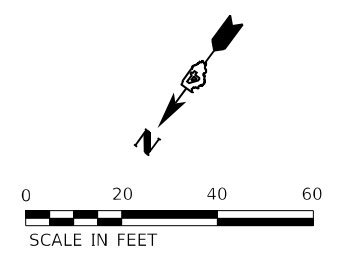
- STAGE 1:**
- SET UP STAGE 1 TRAFFIC CONTROL.
  - REMOVE EXISTING TREES
  - REMOVE EXISTING SHOULDER, AND EXISTING GUARDRAIL.
  - EXTEND EXISTING CULVERT.
  - GRADE SOUTHBOUND SLOPE OF IL 94 AND INSTALL RIPRAP.
  - CONSTRUCT HOT-MIX ASPHALT SHOULDERS, 8" ALONG THE SOUTHBOUND LANE.
  - PLACE NEW STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS.
  - REMOVE STAGE 1 TRAFFIC CONTROL

**GENERAL NOTES**

- VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, DETECTOR LOOPS, AND TYPE B BIDIRECTIONAL GUARDRAIL AND BARRIER REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)"
- THIS WORK SHALL SUPPLEMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701321.
- THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.
- REMOVE ALL CONFLICTING PAVEMENT MARKINGS, UTILIZING STANDARD 701311.



ADVANCE SIGNAGE, DETECTOR LOOPS, AND RUMBLE STRIPS IN ACCORDANCE WITH HIGHWAY STANDARD 701321. AN ADDITIONAL RUMBLE STRIP AND SIGNAL AHEAD SIGN W3-3(0)-48 WITH SOLAR POWERED FLASHING BEACON ASSEMBLY SHALL BE PLACED 200' PRIOR TO THE RCA SIGN.



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 Engineers • Architects • Surveyors 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	USER NAME = aschafer	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>F.A.S. ROUTE 1412 (IL 94) TRAFFIC CONTROL PLANS (STAGE 1)</b>	F.A.S. RTE. = 1412	SECTION = 106(SLP-4-CR-2)	COUNTY = HENDERSON	TOTAL SHEETS = 24	SHEET NO. = 12
	PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -			SCALE: 1"=20'	SHEET 1 OF 4 SHEETS	STA. 397+75.00 TO STA. 403+50.00	CONTRACT NO. 68H98	
	PLOT DATE = 3/20/2024	DATE -	REVISED -							

LEGEND	
	DIRECTION OF TRAFFIC
	TYPE III BARRICADE
	TEMPORARY CONCRETE BARRIER
	DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
	TEMPORARY TRAFFIC SIGNAL
	TEMPORARY IMPACT ATTENUATOR
	WORK ZONE
	BIDIRECTIONAL REFLECTORS

**STAGE CONSTRUCTION SEQUENCE**

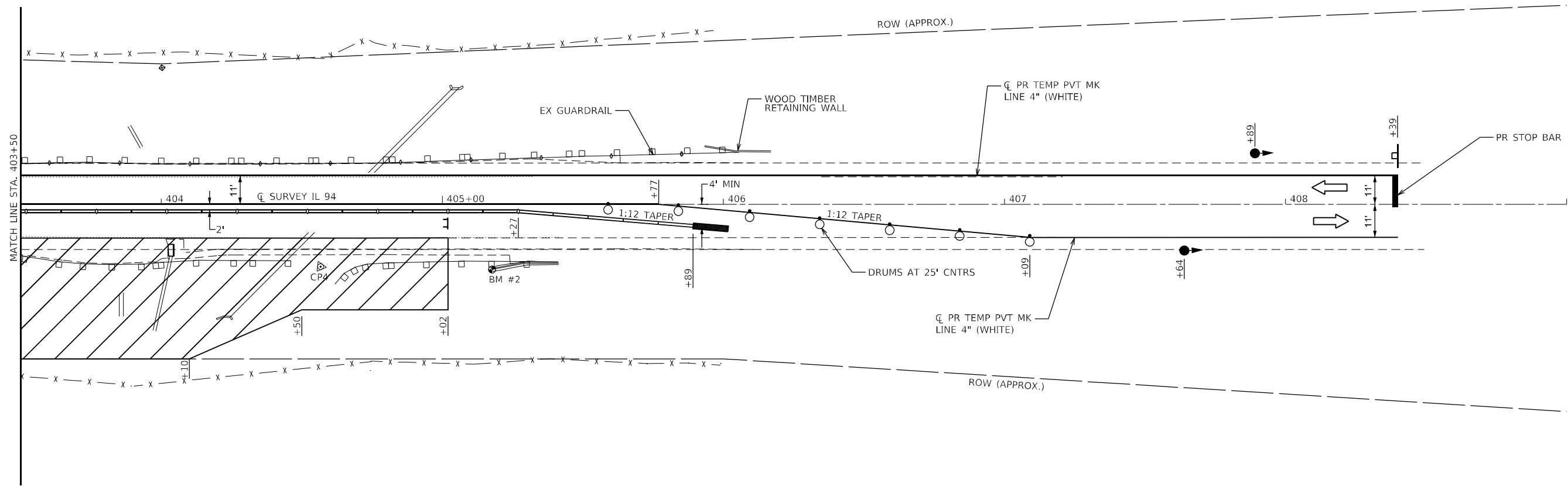
THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

**STAGE 1:**

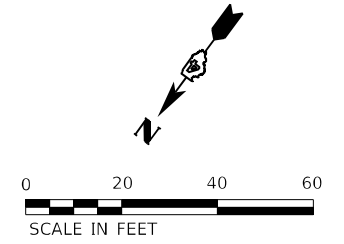
- SET UP STAGE 1 TRAFFIC CONTROL.
- REMOVE EXISTING TREES
- REMOVE EXISTING SHOULDER, AND EXISTING GUARDRAIL.
- EXTEND EXISTING CULVERT.
- GRADE SOUTHBOUND SLOPE OF IL 94 AND INSTALL RIPRAP.
- CONSTRUCT HOT-MIX ASPHALT SHOULDERS, 8" ALONG THE SOUTHBOUND LANE.
- PLACE NEW STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS.
- REMOVE STAGE 1 TRAFFIC CONTROL

**GENERAL NOTES**

- VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, DETECTOR LOOPS, AND TYPE B BIDIRECTIONAL GUARDRAIL AND BARRIER REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)"
- THIS WORK SHALL SUPPLEMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701321.
- THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.
- REMOVE ALL CONFLICTING PAVEMENT MARKINGS, UTILIZING STANDARD 701311.











ADVANCE SIGNAGE, DETECTOR LOOPS, AND RUMBLE STRIPS IN ACCORDANCE WITH HIGHWAY STANDARD 701321. AN ADDITIONAL RUMBLE STRIP AND SIGNAL AHEAD SIGN W3-3(0)-48 WITH SOLAR POWERED FLASHING BEACON ASSEMBLY SHALL BE PLACED 200' PRIOR TO THE RCA SIGN.



MODEL: Default; FILE NAME: P:\Caledonia\211223\13081\DOT - DIST 4 - PTB 201-032\Work Order 08 - FY 2023 Slope Repair\18\_Transportation\Location TCP Staging 1b.dwg

 Engineers • Architects • Surveyors 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	USER NAME = aschafer PLOT SCALE = 40,0000 * / in. PLOT DATE = 3/20/2024	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>F.A.S. ROUTE 1412 (IL 94) TRAFFIC CONTROL PLANS (STAGE 1)</b>	SCALE: 1"=20' SHEET 2 OF 4 SHEETS STA. 403+50.00 TO STA. 409+00.00	F.A.S. RTE. 1412 SECTION 106(SLP-4-CR-2) COUNTY HENDERSON TOTAL SHEETS 24 SHEET NO. 13 CONTRACT NO. 68H98 ILLINOIS FED. AID PROJECT

**LEGEND**

-  DIRECTION OF TRAFFIC
-  TYPE III BARRICADE
-  TEMPORARY CONCRETE BARRIER
-  DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
-  TEMPORARY TRAFFIC SIGNAL
-  TEMPORARY IMPACT ATTENUATOR
-  WORK ZONE
-  BIDIRECTIONAL REFLECTORS

**STAGE CONSTRUCTION SEQUENCE**

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

**STAGE 2:**

- SET UP STAGE 2 TRAFFIC CONTROL.
- REMOVE EXISTING TREES
- REMOVE THE EXISTING SHOULDER, AND EXISTING GUARDRAIL.
- EXTEND EXISTING CULVERT.
- GRADE NORTHBOUND SLOPE OF IL 94 AND INSTALL RIPRAP.
- CONSTRUCT HOT-MIX ASPHALT SHOULDERS, 8" ALONG THE NORTHBOUND LANE.
- PLACE NEW STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS.
- REMOVE STAGE 2 TRAFFIC CONTROL.

**STAGE 3:**

- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 TO COMPLETE PAVEMENT PATCHING.
- CONSTRUCT FINAL PAVEMENT MARKINGS. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701311.

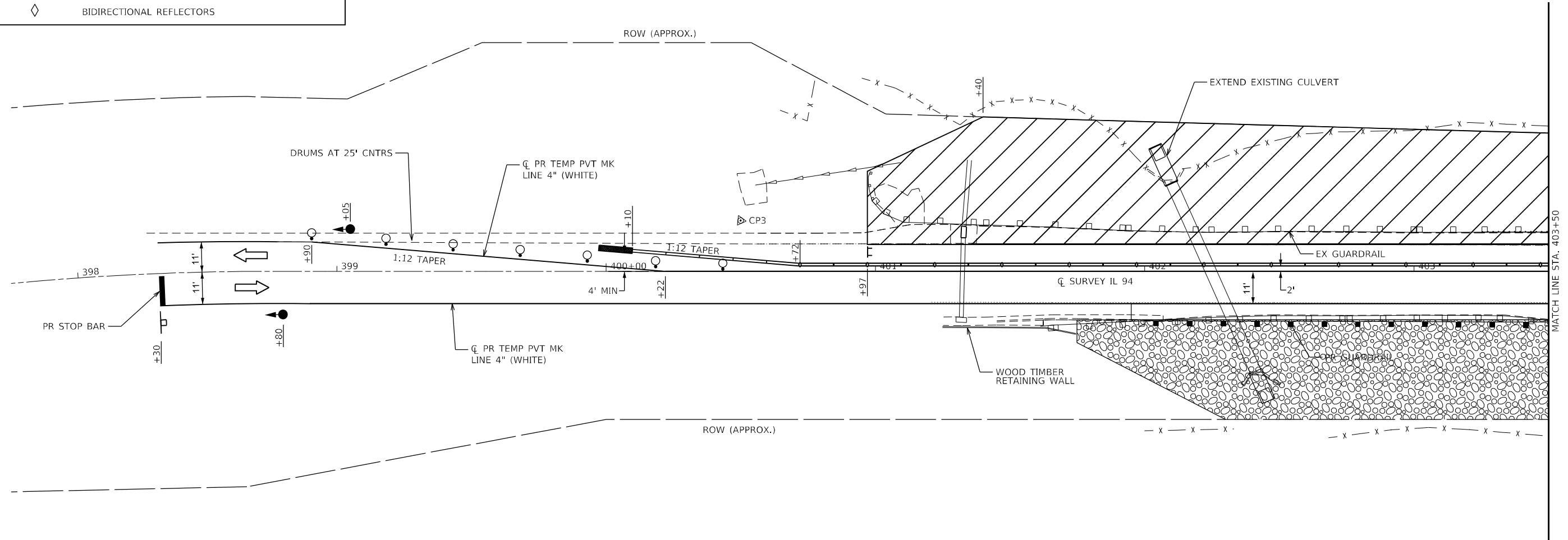
**GENERAL NOTES**

VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, DETECTOR LOOPS, AND TYPE B BIDIRECTIONAL GUARDRAIL AND BARRIER REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)"

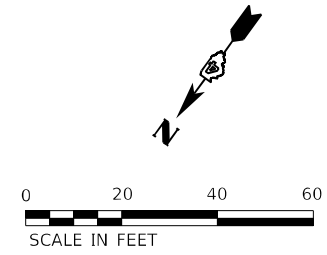
THIS WORK SHALL SUPPLEMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701321.

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS, UTILIZING STANDARD 701311.



ADVANCE SIGNAGE, DETECTOR LOOPS, AND RUMBLE STRIPS IN ACCORDANCE WITH HIGHWAY STANDARD 701321. AN ADDITIONAL RUMBLE STRIP AND SIGNAL AHEAD SIGN W3-3(0)-48 WITH SOLAR POWERED FLASHING BEACON ASSEMBLY SHALL BE PLACED 200' PRIOR TO THE RCA SIGN.



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	USER NAME = aschafer	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>F.A.S. ROUTE 1412 (IL 94) TRAFFIC CONTROL PLANS (STAGE 2)</b>	F.A.S. RTE. = 1412	SECTION = 106(SLP4-CR-2)	COUNTY = HENDERSON	TOTAL SHEETS = 24	SHEET NO. = 14
	PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -			SCALE: 1"=20'	SHEET 3 OF 4 SHEETS	STA. 397+75.00 TO STA. 403+50.00	CONTRACT NO. 68H98	
Engineers • Architects • Surveyors 616 N. 24TH ST. QUINCY, ILLINOIS 62301-2172, 223-3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	PLOT DATE = 3/20/2024	DATE -	REVISED -							

### STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

#### STAGE 2:

- SET UP STAGE 2 TRAFFIC CONTROL.
- REMOVE EXISTING TREES
- REMOVE THE EXISTING SHOULDER, AND EXISTING GUARDRAIL.
- EXTEND EXISTING CULVERT.
- GRADE NORTHBOUND SLOPE OF IL 94 AND INSTALL RIPRAP.
- CONSTRUCT HOT-MIX ASPHALT SHOULDERS, 8" ALONG THE NORTHBOUND LANE.
- PLACE NEW STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS.
- REMOVE STAGE 2 TRAFFIC CONTROL.

#### STAGE 3:

- CONSTRUCT FINAL PAVEMENT MARKINGS.
- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701311.

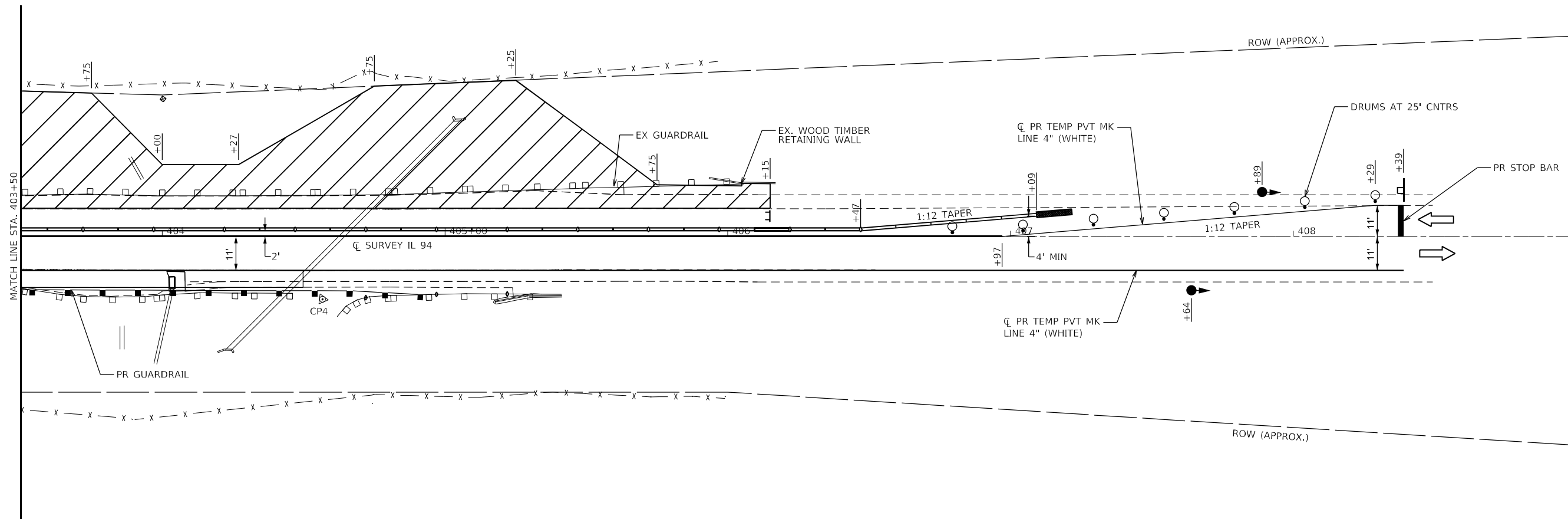
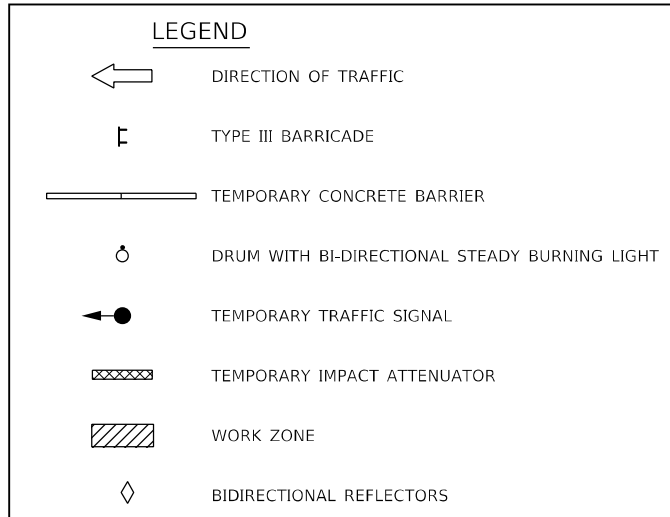
### GENERAL NOTES

VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, DETECTOR LOOPS, AND TYPE B BIDIRECTIONAL GUARDRAIL AND BARRIER REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)"

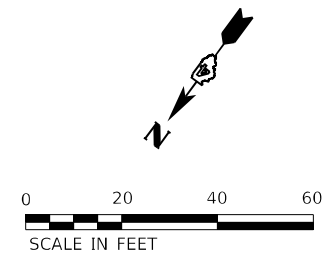
THIS WORK SHALL SUPPLEMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701321.

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS, UTILIZING STANDARD 701311.



ADVANCE SIGNAGE, DETECTOR LOOPS, AND RUMBLE STRIPS IN ACCORDANCE WITH HIGHWAY STANDARD 701321. AN ADDITIONAL RUMBLE STRIP AND SIGNAL AHEAD SIGN W3-3(0)-48 WITH SOLAR POWERED FLASHING BEACON ASSEMBLY SHALL BE PLACED 200' PRIOR TO THE RCA SIGN.



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**KLINGNER & ASSOCIATES, P.C.**  
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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

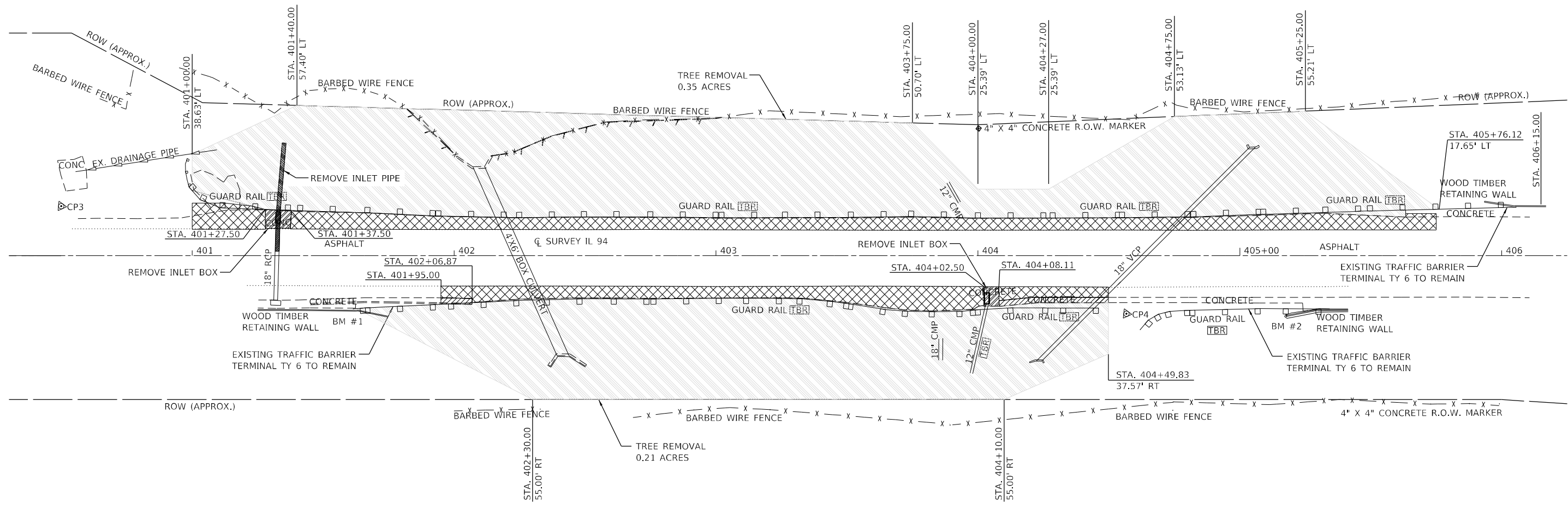
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>F.A.S. ROUTE 1412 (IL 94) TRAFFIC CONTROL PLANS (STAGE 2)</b>			
SCALE: 1"=20'	SHEET 4	OF 4 SHEETS	STA. 403+50.00 TO STA. 409+00.00

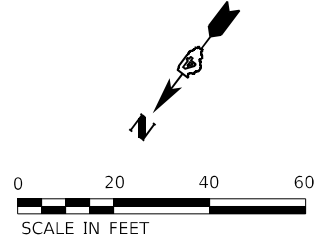
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP-4-CR-2)	HENDERSON	24	15
CONTRACT NO. 68H98				
ILLINOIS FED. AID PROJECT				

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- REMOVAL LEGEND**
- PAVED SHOULDER REMOVAL
  - GUTTER REMOVAL
  - REMOVE INLET BOX
  - TREE REMOVAL
  - TO BE REMOVED
  - WOVEN WIRE FENCE REMOVAL

NOTE:  
 CONTRACTOR SHALL REMOVE THE EXISTING EROSION CONTROL CURBS  
 WITHIN THE PROJECT LIMITS. COST INCLUDED IN "PAVED SHOULDER REMOVAL".



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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

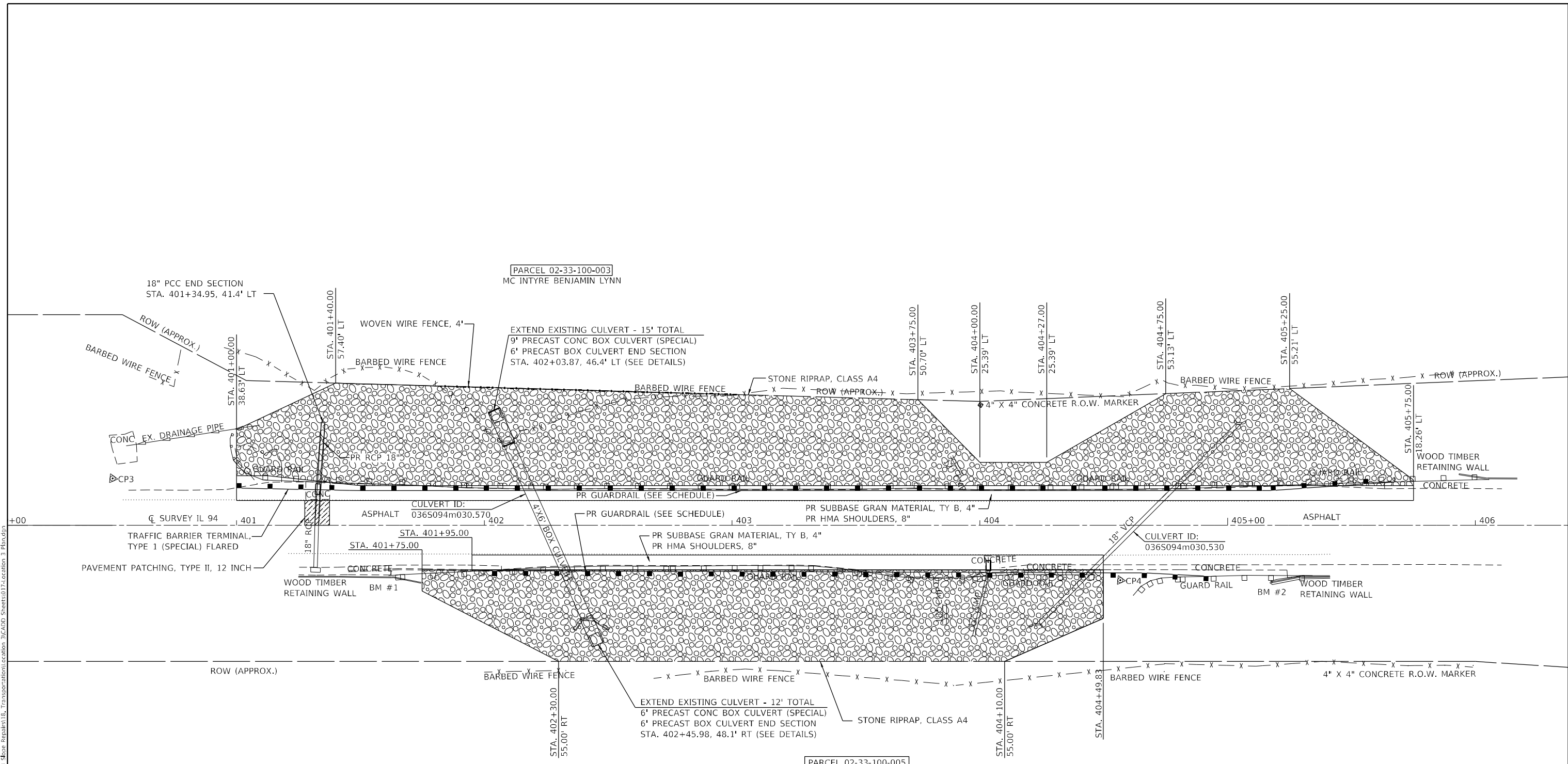
**F.A.S. ROUTE 1412 (IL 94)  
 REMOVAL PLAN**

SCALE: 1"=20'    SHEET 1 OF 1 SHEETS    STA. 400+25.00 TO STA. 406+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP-4-CR-2)	HENDERSON	24	16
CONTRACT NO. 68H98				
ILLINOIS FED. AID PROJECT				



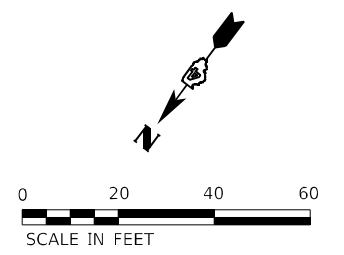
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 616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738



BM #1  
 SET 60d NAIL IN RETAINING WALL  
 ELEV = 607.60

PARCEL 02-33-100-005  
 CHATEAU BB LLC 50% MINOR  
 F GRANT TTEE IRA FARMERS AND  
 MERCHANT STREET BANK

BM #2  
 EAST END OF RETAINING WALL  
 TOP OF SOUTH EDGE OF I-BEAM AT MIDDLE  
 ELEV = 624.16



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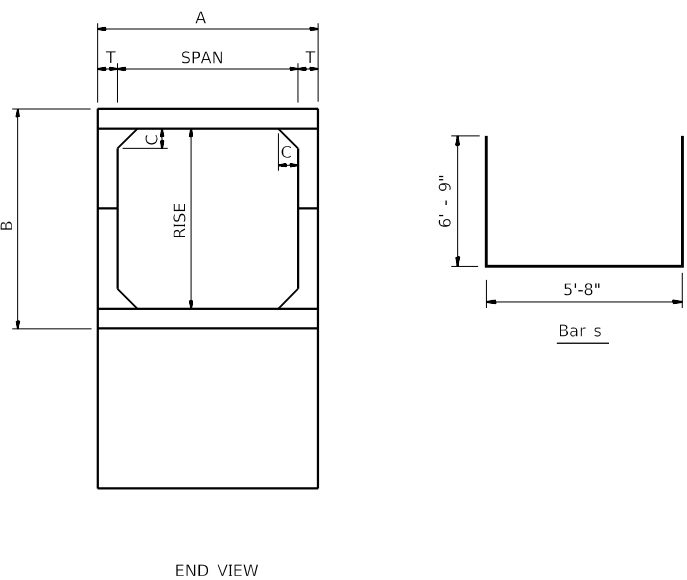
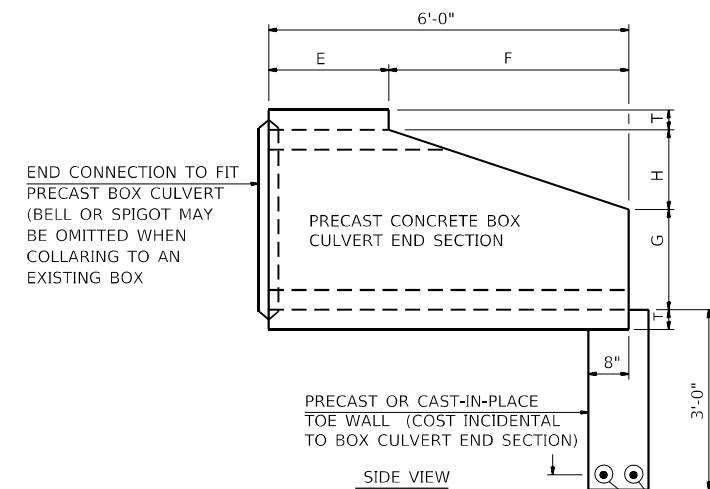
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	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

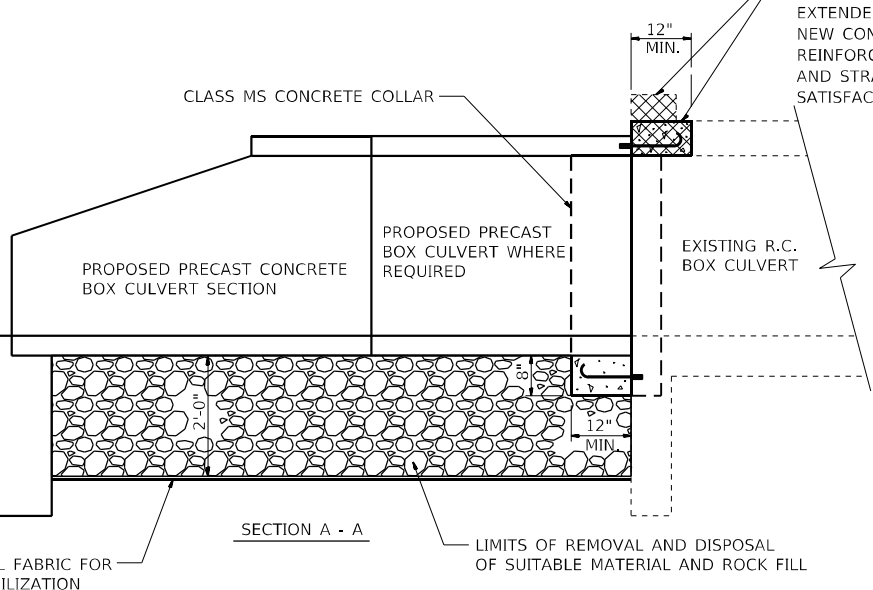
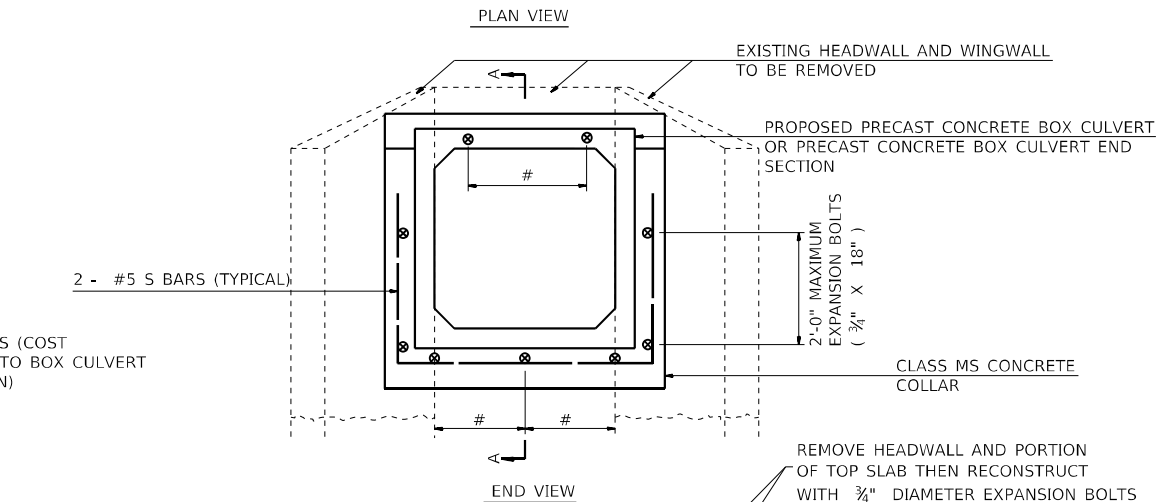
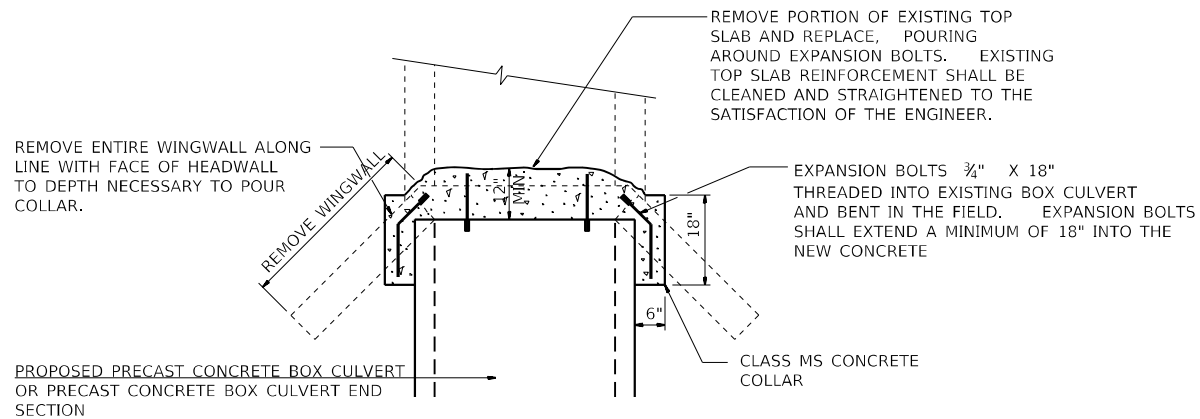
<b>F.A.S. ROUTE 1412 (IL 94)</b>	
<b>SITE PLAN</b>	
SCALE: 1"=20'	SHEET 1 OF 1 SHEETS
STA. 400+25.00	TO STA. 406+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	106(SLP-4-CR-2)	HENDERSON	24	17
CONTRACT NO. 68H98				
ILLINOIS FED. AID PROJECT				

NOTE:  
EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIAMETER HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM DISTANCE AS SPECIFIED, 9" OR 18" INTO THE NEW CONCRETE. MINIMUM CERTIFIED PROOF LOAD = 4080 LBS.



Span x Rise	T	A	B	C	E	F	G	H
4' x 6'	7"	5'-2"	7'-2"	7"	2'-0"	4'-0"	5'-2"	2'-0"



# NUMBER OF EXPANSION BOLTS AND SPACING

SPAN X RISE	TOP SLAB 3/4" X 9" *	BOTTOM SLAB 3/4" X 9" *	EACH WING 3/4" X 18" **
4' x 6'	3 at 18"	3 at 18"	5 at 15"

\* THE DIMENSIONS SHOWN ARE THE MINIMUM EXTENSIONS OF THE EXPANSION BOLTS INTO THE NEW CONCRETE.

SCHEDULE OF ESTIMATED EARTHWORK QUANTITIES

STATION	SIZE	* REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	POROUS GRANULAR EMBANKMENT	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	* ROCK FILL
	(FT)	(C.Y.)	TON	(S.Y.)	TON
402+03.87 LT	4' X 6'	14	17	12	17
402+45.98 RT	4' X 6'	11	13	10	13

\* APPROXIMATELY 2'-0" DEEP

SCHEDULE OF ESTIMATED QUANTITIES

STATION	SIZE	CONCRETE COLLAR	EXPANSION BOLTS	REINFORCEMENT BARS	PRECAST CONCRETE BOX CULVERT (SPECIAL)	BOX CULVERT END SECTIONS, CULVERT NO. 1
	(FT)	(C.Y.)	(EA.)	(LBS)	(FOOT)	(EACH)
402+03.87 LT	4' X 6'	0.9	16	40	9	1
402+45.98 RT	4' X 6'	0.9	16	40	6	1

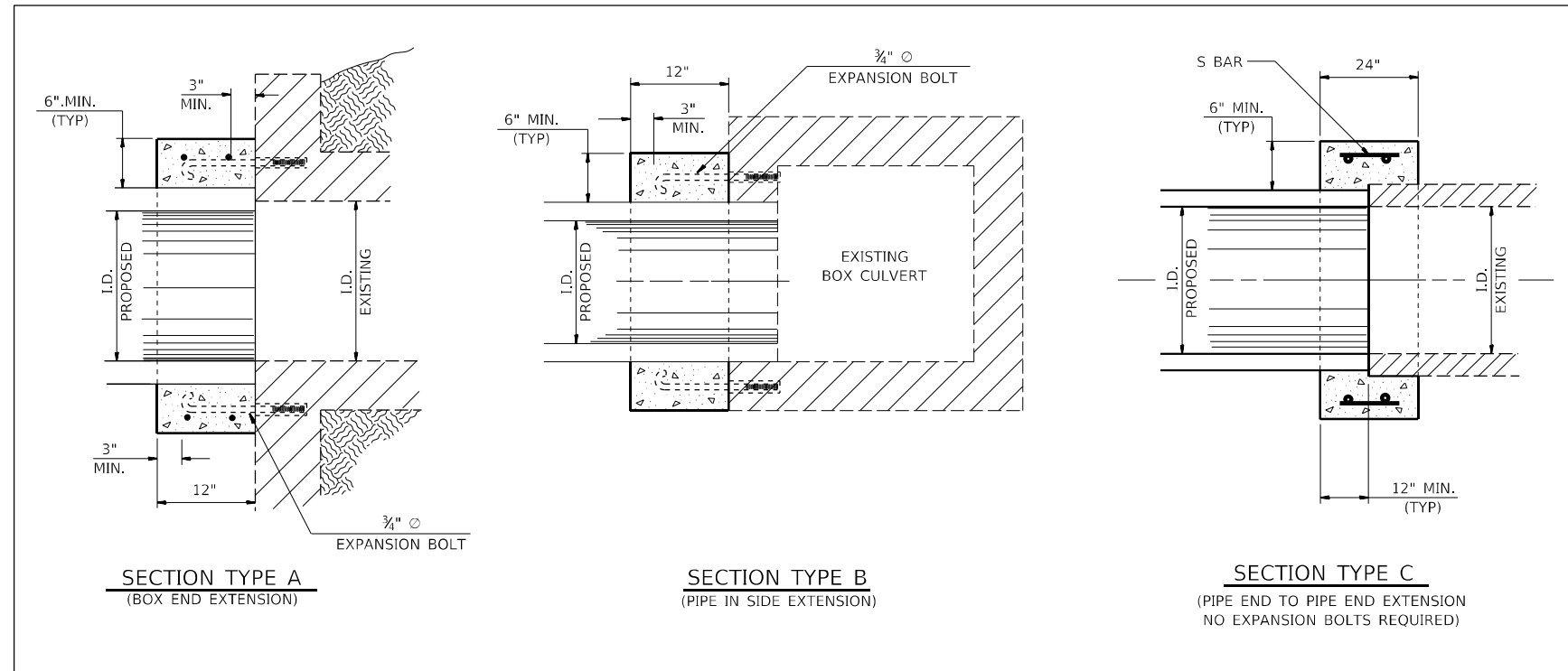
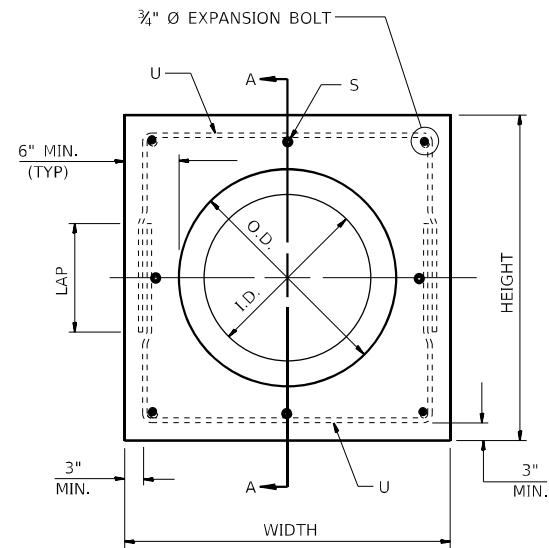
NOTE:  
REMOVAL OF EXISTING WINGWALLS, HEADWALLS, PORTIONS OF EXISTING TOP SLABS, ETC., SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR.

STRUCTURE EXCAVATION REQUIRED FOR THE REMOVAL OF EXISTING HEADWALLS, WINGWALLS, OR TOP SLABS SHALL BE INCLUDED IN THE COST OF BOX CULVERT END SECTION.

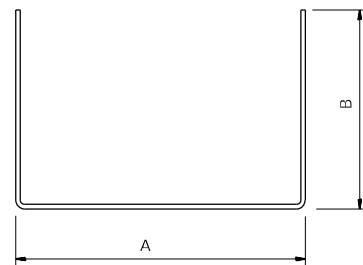
COST OF POROUS GRANULAR MATERIAL AND REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL BE PAID FOR SEPARATELY.

MAXIMUM FILL HEIGHT = 3.0 FEET. A STANDARD 6'X4' PRECAST CONCRETE BOX CULVERT, ROTATED 90 DEGREES, CAN BE USED FOR EACH LOCATION.

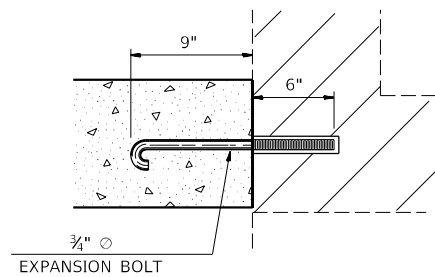
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SECTION A - A



#5 U - BAR



EXPANSION BOLT DETAIL

NOTES:

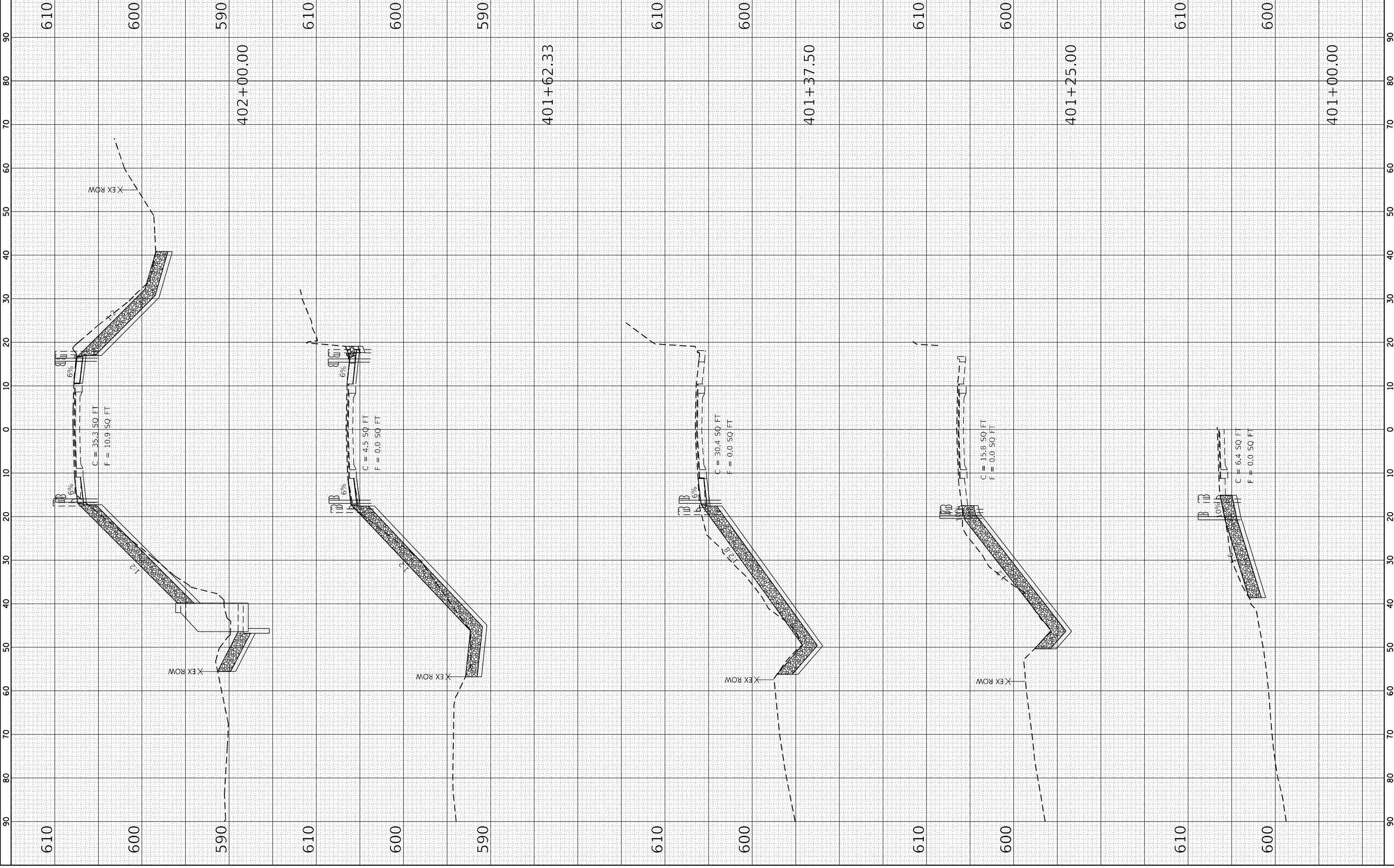
- EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" Ø HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. MINIMUM CERTIFIED PROOF LOAD - 2 TON
- USE MINIMUM OF 1 (ONE) EXPANSION BOLT AT EACH CORNER.

LOCATION	STATION	SECTION TYPE	SKEW	EXISTING CULVERT	PROPOSED CULVERT	COLLAR		REINFORCEMENT BARS										EXPANSION BOLTS 3/4"	CONCRETE COLLAR	
								S BAR					U BAR							(LB)
								NO.	SIZE	LENGTH	NO.	SIZE	A	B	LAP	LENGTH				
IL 94	401+34.95	A	3.6°	18" Ø	18" Ø	23"	35"	35"	-	-	-	4	#5	29"	24"	18	77"	27	8	0.2

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DATE	BY	REVISION

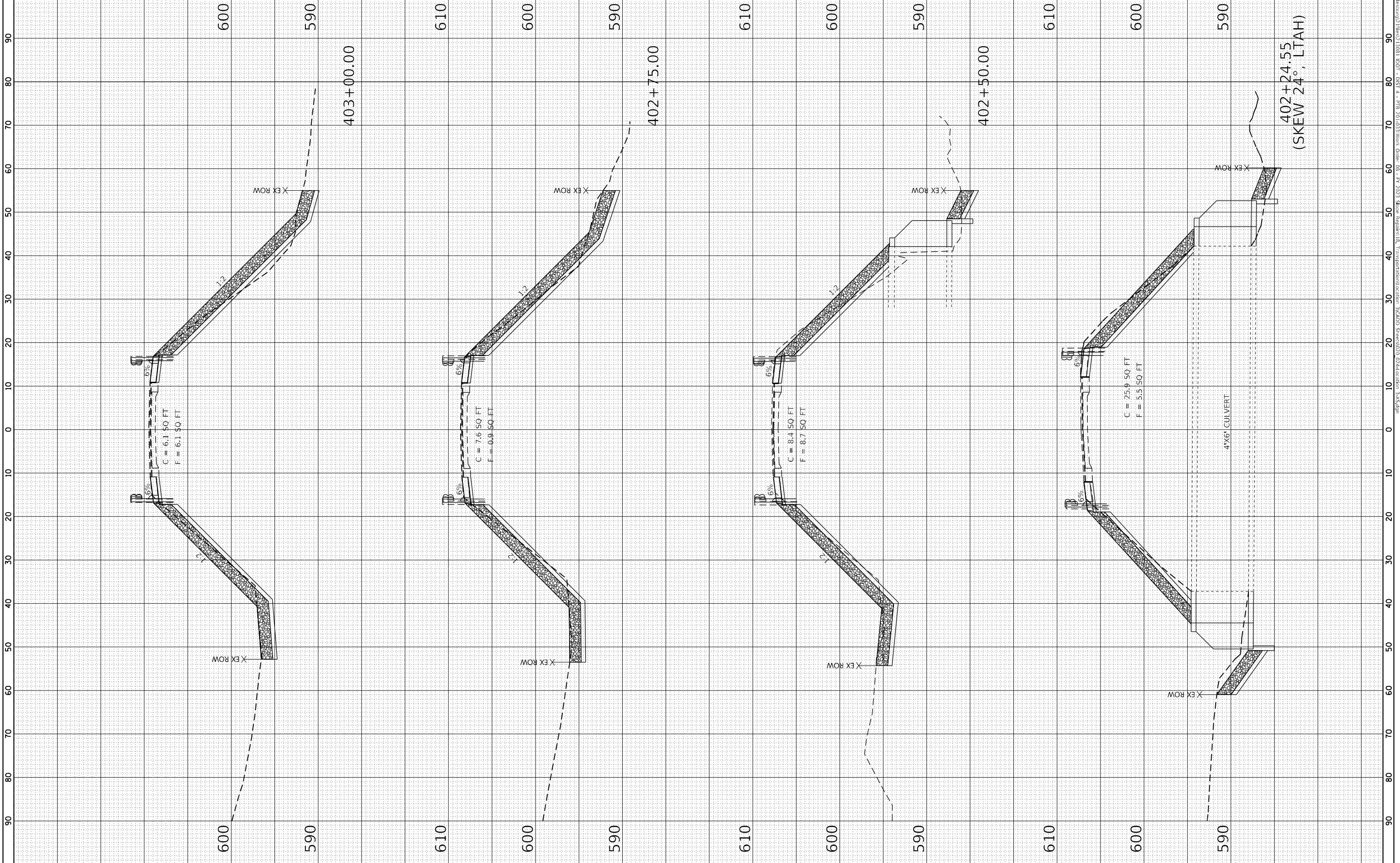
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ORIGINAL	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	REVISIONS		

FINAL	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	REVISIONS		



ORIGINAL	SUBMITTED	BY	DATE
SURVEY	_____	_____	_____
NOTE BOOK	_____	_____	_____
AREAS CHECKED	_____	_____	_____

FINAL	SUBMITTED	BY	DATE
SURVEY	_____	_____	_____
NOTE BOOK	_____	_____	_____
AREAS CHECKED	_____	_____	_____

**KLINGNER ASSOCIATES, P.C.**  
 ENGINEERS • ARCHITECTS • SURVEYORS  
 616 NORTH QUINCY, SUITE 200, CHICAGO, ILLINOIS 60610  
 STATE OF ILLINOIS DESIGN FIRM NO. 164-2726

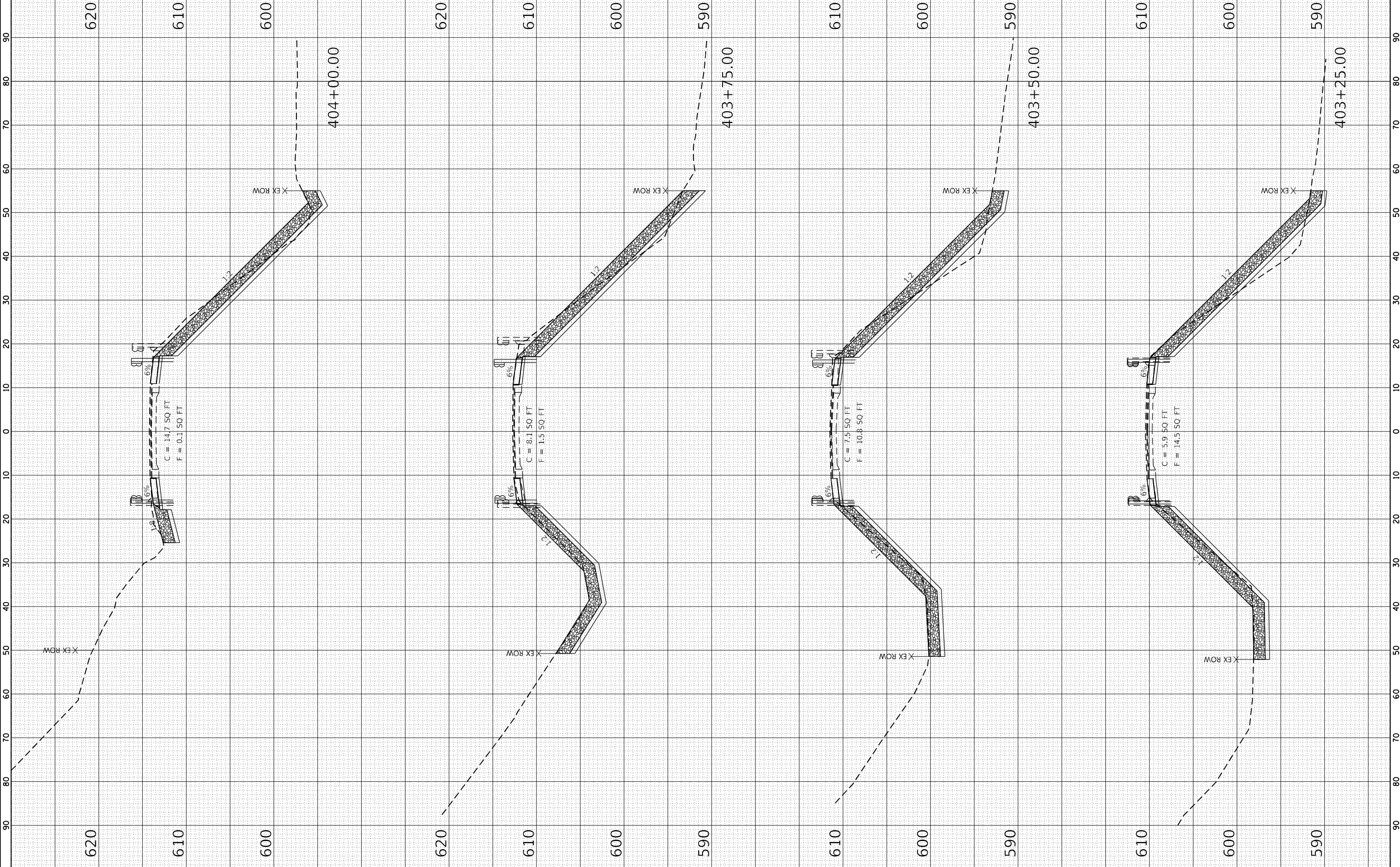
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 PLOT SCALE = 20,000 : 1 in.

DESIGNED -  
 DRAWN -  
 CHECKED -  
 REVISIONS -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 20'  
 SHEET 3 OF 5 SHEETS  
 STA. 403+25.00 TO STA. 404+00.00  
**F.A.S. ROUTE 1412 (IL 94)  
 CROSS SECTIONS**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
1412	106(SLP-4;CR-2)	HENDERSON	24
CONTRACT NO. 68H98			22



ORIGINAL	SUBMITTED	BY	DATE
SURFER	PLOTTED		
NOTE BOOK	TEMPLATE		
AREAS CHECKED			

FINAL	SUBMITTED	BY	DATE
SURFER	PLOTTED		
NOTE BOOK	TEMPLATE		
AREAS CHECKED			

**KLINGNER ASSOCIATES, P.C.**  
 ENGINEERS • ARCHITECTS • SURVEYORS  
 616 NORTH QUINCY, IL 61890-2200  
 STATE OF ILLINOIS DESIGN FIRM NO. 164-2728

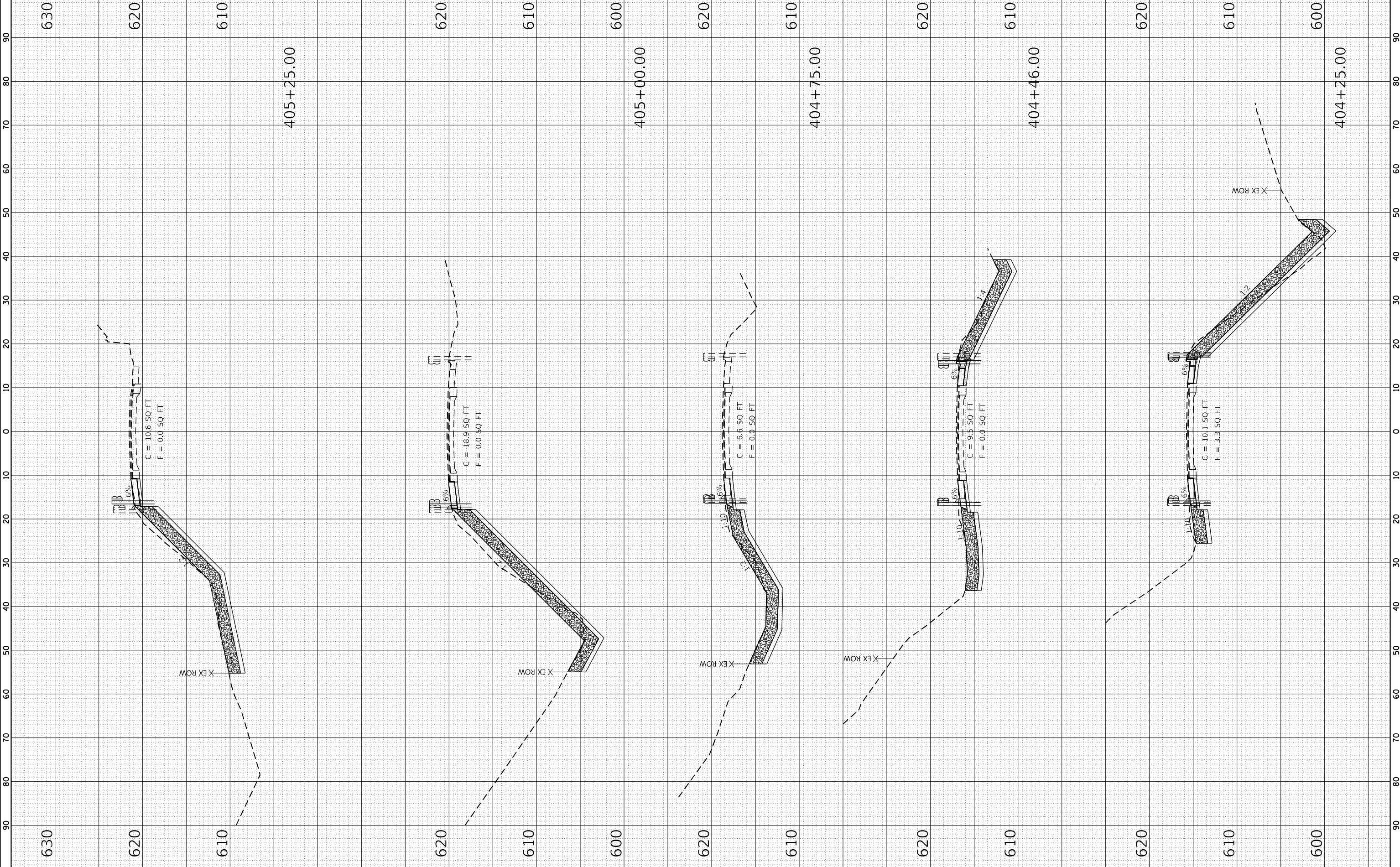
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DESIGNED	DRAWN	CHECKED	DATE
REVISD	REVISD	REVISD	-
REVISD	REVISD	REVISD	-
REVISD	REVISD	REVISD	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 20'  
 SHEET 4 OF 5 SHEETS  
 STA. 404+25.00 TO STA. 405+25.00  
**F.A.S. ROUTE 1412 (IL 94)**  
**CROSS SECTIONS**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
1412	106(SLP-4;CR-2)	HENDERSON	24
			23
CONTRACT NO. 68H98			
ILLINOIS FED. AID PROJECT			



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 10'  
 1" = 20'  
 SHEET 5 OF 5 SHEETS  
 STA. 405+50.00 TO STA. 406+05.00  
 F.A.S. ROUTE 1412 (IL 94)  
 CROSS SECTIONS

F.A.S. RTE.	1412
SECTION	106(SLP-4;CR-2)
COUNTY	HENDERSON
TOTAL SHEETS	24
CONTRACT NO.	68H98
ILLINOIS FED. AID PROJECT	

ORIGINAL	SUBMITTED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
AREAS CHECKED			

FINAL	SUBMITTED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
AREAS CHECKED			

