

INDEX OF SHEETS

1-18-13 LETTING ITEM 101

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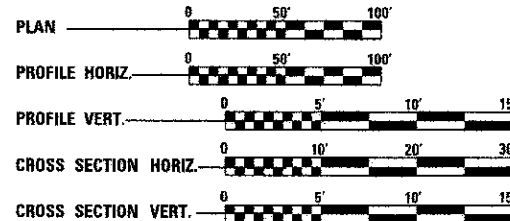
HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
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- 631032-03 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701306-03 LANE CLOSURE 2L2W > 45MPH DAY ONLY
- 701901-02 TRAFFIC CONTROL DEVICES
- B.L.R.21-9 TYPICAL APPLICATION FOR TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITY CONTACTS:

UTILITY TYPE	UTILITY TYPE	UTILITY TYPE
ELECTRIC	TELEPHONE	TELEPHONE
AMEREN CILCO	MCLEOD USA	VERIZON NORTH, INC.
(217) 753-5187	(217) 876-7194	(309) 663-3422
ATTN: RICK COMBS	ATTN: MARK MILLS	ATTN: JONNA FRICKE

SCALES



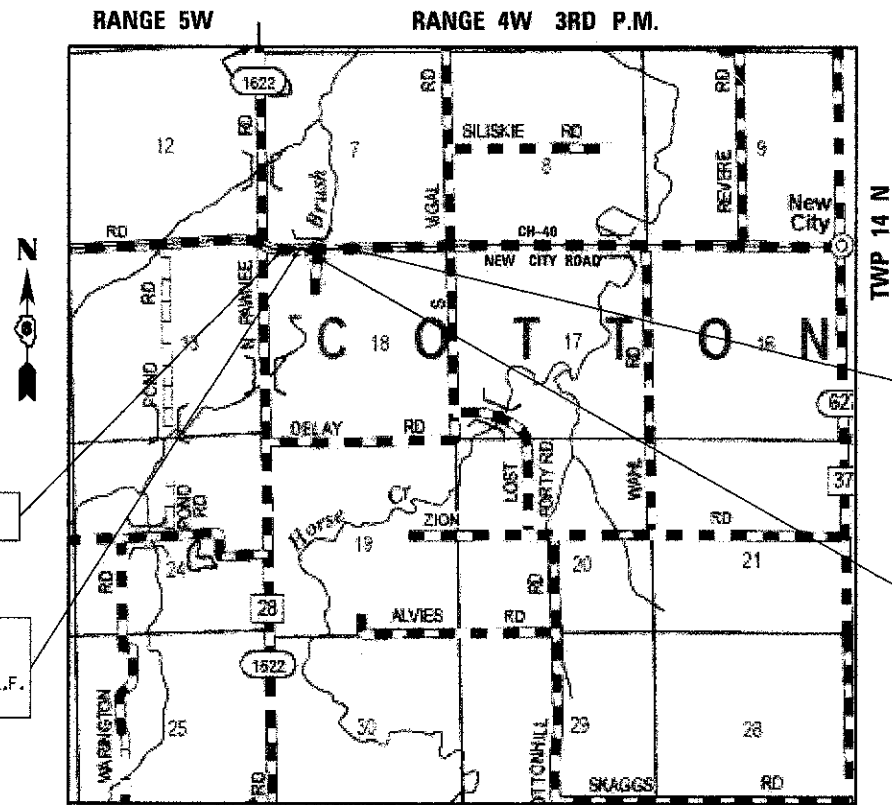
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 93585

PLANS FOR PROPOSED HIGHWAY BRIDGE PROGRAM

**REPLACEMENT OF BRIDGE OVER BRUSH CREEK
FAS 624 (C.H. 40) NEW CITY ROAD
SECTION 08-00085-00-BR
PROJECT BRS-0624(111)
JOB NUMBER C-96-271-10
SANGAMON COUNTY**



LOCATION MAP



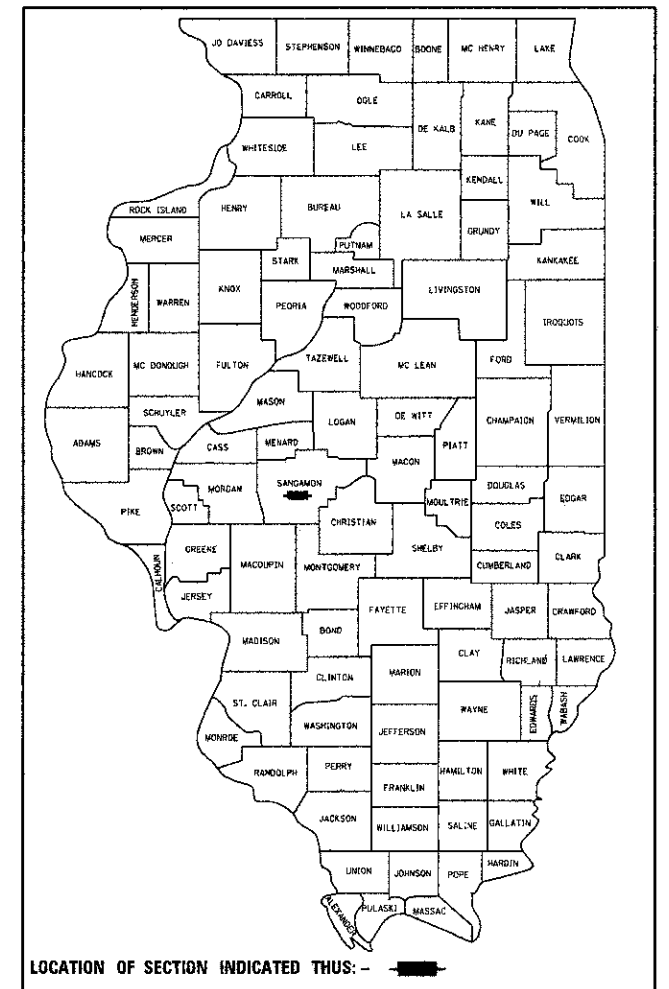
GROSS LENGTH OF IMPROVEMENT = 662.28 FEET (0.125 MI)
NET LENGTH OF IMPROVEMENT = 662.28 FEET (0.125 MI)

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR
2009 ADT = 1150
DHV = 104
DESIGN SPEED = 50 MPH
POSTED SPEED = 55 MPH
DESIGN GUIDELINES = RURAL 3R



Expires: 11/30/2013

Robert R. Rao 08/22/2012



APPROVED August 22 20 12
[Signature]
COUNTY ENGINEER

APPROVED October 24 20 12
[Signature]
DISTRICT SIX ENGINEER OF LOCAL ROADS AND STREETS

APPROVED October 24 20 12
[Signature]
DISTRICT SIX ENGINEER OF CONSTRUCTION

Releasing For Bid Based on Limited Review October 24 20 12
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

USER NAME * #USER*	DESIGNED - JLS	REVISED -	MID-AMERICA ENGINEERING SERVICES SPRINGFIELD ILLINOIS	TITLE SHEET	F.A.S. RTE. 624	SECTION 08-00085-00-BR	COUNTY SANGAMON	TOTAL SHEETS 32	SHEET NO. 1
PLOT SCALE = #SCALE*	DRAWN - OSJ	REVISED -							
PLOT DATE = #DATE*	CHECKED - KRG	REVISED -							
SCALE: NTS	SHEET NO. 1 OF 32 SHEETS	STA. 119+00.00 TO STA. 125+62.28	CONTRACT NO. 93585						

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNITS	TOTAL
20200100	EARTH EXCAVATION	CU YD	77
20300100	CHANNEL EXCAVATION	CU YD	333
20400800	FURNISHED EXCAVATION	CU YD	1205
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	70
28000400	PERIMETER EROSION BARRIER	FOOT	1262
28200200	FILTER FABRIC	SQ YD	1766
35100100	AGGREGATE BASE COURSE, TYPE A	TON	87
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	770
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	733
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	180
44000100	PAVEMENT REMOVAL	SQ YD	1278
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	76
48203100	HOT-MIX ASPHALT SHOULDERS	TON	263
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU. YD.	98
50200300	COFFERDAM EXCAVATION	CU. YD.	240
* 50201121	COFFERDAM (TYPE 2) (LOCATION 1)	EACH	1
* 50201122	COFFERDAM (TYPE 2) (LOCATION 2)	EACH	1
50300225	CONCRETE STRUCTURES	CU. YD.	146.2
* 50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	3840
50300280	CONCRETE ENCASEMENT	CU. YD.	4.8
50300265	SEAL COAT CONCRETE	CU. YD.	163
50500505	STUD SHEAR CONNECTORS	EACH	56
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	13970
Δ 50901050	STEEL RAILING, TYPE SM	FOOT	275
51201700	FURNISHING STEEL PILES HP12x74	FOOT	950
51202305	DRIVING PILES	FOOT	950
51203700	TEST PILE STEEL HP12x74	EACH	2
51500100	NAME PLATES	EACH	1
542A1909	PIPE CULVERTS, CLASS A, TYPE 3 24"	FOOT	75
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	442
58300100	PORLAND CEMENT MORTAR FAIRING COURSE	FOOT	823
Δ 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6' POSTS	FOOT	300
Δ 63100045	TRAFFIC BARRIER TERMINAL TYPE 2	EACH	1
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	7
63200310	GUARDRAIL REMOVAL	FOOT	163
67100100	MOBILIZATION	L SUM	1
Δ † 78200410	GUARDRAIL MARKERS, TYPE A	EACH	14
Δ † 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	7
* X2501000	SEEDING CLASS 2 (SPECIAL)	ACRE	0.7
* X2810208	STONE RIPRAP CLASS A4 (SPECIAL)	TON	744
* X5420636	PIPE CULVERTS TO BE CLEANED 36"	FOOT	49
Δ * X6300130	STEEL PLATE BEAM GUARD RAIL TYPE A (SPECIAL)	FOOT	112.5
Δ * X6310088	TRAFFIC BARRIER TERMINAL, TYPE 6A (SPECIAL)	EACH	4
* X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1
* Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	210

* SEE SPECIAL PROVISIONS
† SEE CHECK SHEET ITEM *20
Δ SPECIALTY ITEMS
CONSTRUCTION TYPE CODE = 0011

GENERAL NOTES

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012 AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, "2012" THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS UNTIL THE OWNER, HIS AGENT, OR PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

TREES WITHIN THE RIGHT OF WAY AND EASEMENTS, WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER.

THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL PRIVATE AND FIELD ENTRANCES AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THE PLANS.

PAVEMENT MARKING/STRIPING SHALL BE DONE BY OTHERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL COORDINATE WITH UTILITY, CABLE, PHONE COMPANY'S. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY COST OR DELAYS BY THE UTILITY.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTORS EXPENSE.

SIGNS WITHIN THE RIGHT OF WAY AND EASEMENTS, WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED AND REPLACED ONLY AT THE DIRECTION OF THE ENGINEER.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

MIXTURE USES	HOT-MIX ASHALT SURFACE COURSE MIX "C" N50	HOT-MIX ASPHALT SHOULDERS	HMA BINDER COURSE
AC/PG:	PG 64-22	PG 58-22	PG 64-22
DESIGN AIR VOIDS	4.0 @ NDESIGN = 50	2.0 @ NDESIGN = 30	4.0 @ NDESIGN = 50
FRICTION AGGREGATE	MIX "C"	N/A	N/A
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL-9.5 OR 12.5	BAM	IL-19.0

THE FOLLOWING RATES OF APPLICATION HAVE USED IN CALCULATING PLAN QUANTITIES

HOT-MIX ASPHALT	112 LB/SQ. YD./INCH
BITUMINOUS MATERIALS (PRIME COAT)	0.5 GAL./SQ. YD.
AGGREGATE MATERIALS	2.05 TON/CU. YD.
TEMP. EROSION SEEDING	100 LBS./ACRE
RIPRAP, SPECIAL	1.5 TONS/CU. YD.

COMMITMENTS

NONE

FILE NAME =	USER NAME = #USER#	DESIGNED - KRG	REVISED -	MID-AMERICA ENGINEERING SERVICES SPRINGFIELD ILLINOIS	GENERAL NOTES & SUMMARY OF QUANTITIES			RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - GSJ	REVISED -		CH 40	08-0085-00-BR	SANGAMON	32	2			
PLOT SCALE * #SCALE#		CHECKED - JLS	REVISED -		SCALE: NTS			SHEET NO. 2 OF 32 SHEETS	STA. 119+00.00 TO STA. 125+62.28	CONTRACT NO. 08-0085-00-BR		
PLOT DATE * #DATE#		DATE -	REVISED -		FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT							

CODE NO.	20200100	20300100	20400800
	EARTH EXCAVATION	CHANNEL EXCAVATION	FURNISHED EXCAVATION
	CU YD	CU YD	CU YD
LOCATION			
STA. 119+00 TO 125+62	77	333	1205
TOTAL	77	333	1205

CODE NO.	63100045
	TRAFFIC BARRIER TERMINAL TYPE 2
	EACH
LOCATION	
LT. STA. 120+98.00 (DRIVEWAY)	1
TOTAL	1

CODE NO.	542A1909
	PIPE CULVERTS, CLASS A, TYPE 3 24"
	FOOT
LOCATION	
STA. 123+22.57, 45.0' RT. TO STA. 123+96.62, 56.9' RT.	75
TOTAL	75

CODE NO.	Z0001002
	GUARDRAIL AGGREGATE EROSION CONTROL
	TON
LOCATION	
RT. STA. 119+00 TO RT. STA. 121+51	41
RT. STA. 122+89 TO STA. 1+35.35 (SOB)	22
STA. 1+35.35 (SOB) TO RT. STA. 125+62	51
LT. STA. 119+00 TO LT. STA. 121+70	55
LT. STA. 123+09 TO LT. STA. 125+62	41
TOTAL	210

CODE NO.	X2501000	28000250	28000400
	SEEDING CLASS 2 (SPECIAL)	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER
	ACRE	POUND	FOOT
LOCATION			
RT. STA. 119+00 TO 121+51	0.2	20.0	285
LT. STA. 119+00 TO 120+89	0.1	10.0	192
LT. STA. 121+89 TO 121+72	0.1	10.0	112
RT. STA. 122+89 TO 1+35.35 (SOB)	0.1	10.0	150
STA. 1+35.35 (SOB) TO RT. 125+62	0.1	10.0	256
LT. STA. 122+09 TO 125+62	0.1	10.0	267
TOTAL	0.7	70.0	1262

CODE NO.	63200310
	GUARDRAIL REMOVAL
	FOOT
LOCATION	
LT. STA. 121+30.43 TO LT. STA. 121+71.43	41
LT. STA. 123+09.34 TO LT. STA. 123+50.34	41
RT. STA. 120+96.99 TO RT. STA. 121+50.99	54
RT. STA. 122+89.04 TO RT. STA. 123+15.91	27
TOTAL	163

CODE NO.	48203100
	HOT-MIX ASPHALT SHOULDERS, (6")
	TON
LOCATION	
RT. STA. 119+00 TO RT. STA. 121+51	52
RT. STA. 122+89 TO STA. 1+35.35 (SOB)	43
STA. 1+35.35 (SOB) TO RT. STA. 125+62	61
LT. STA. 119+00 TO LT. STA. 121+70	55
LT. STA. 123+09 TO LT. STA. 125+62	52
TOTAL	263

CODE NO.		35100100	40300100	40603310	40603080
	AREA	AGGREGATE BASE COURSE, TYPE A (8")	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (1 1/2")	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N50 (8 1/2")
	SQ YD	TON	GALLON	TON	TON
LOCATION					
CH 40 / NEW CITY ROAD					
STA. 119+00 TO 121+60.27	636.20		319	54	303
STA. 122+99.73 TO STA. 125+62.28	641.80		321	54	306
TR SLABONEY RD					
STA. 0+11.14 TO STA. 1+35.35	258.80		130	22	124
DRIVEWAY					
STA. 121+98.00 LT.	63.70	87			
TOTAL		87	770	130	733

CODE NO.	63000001
	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6' POSTS
	FOOT
LOCATION	
LT. STA. 123+53.28 TO LT. STA. 124+78.28	125
RT. STA. 119+81.72 TO RT. STA. 121+06.72	125
RT. STA. 124+03.34 TO RT. STA. 124+53.34	50
TOTAL	300

CODE NO.	78200410
	GUARDRAIL MARKERS, TYPE A
	EACH
LOCATION	
LT. STA. 121+26.32 TO LT. STA. 124+78.28	6
RT. STA. 119+81.72 TO RT. STA. 124+53.34	6
LT. (SIDEROAD)	1
RT. (SIDEROAD)	1
TOTAL	14

CODE NO.	44000100
	PAVEMENT REMOVAL
	SQ YD
LOCATION	
STA. 119+00 TO 121+60.27	636.2
STA. 122+99.73 TO STA. 125+62.28	641.8
TOTAL	1278

CODE NO.	X6300130
	STEEL PLATE BEAM GUARD RAIL, TYPE A (SPECIAL)
	FOOT
LOCATION	
LT. STA. 120+98.00 (DRIVEWAY)	37.5
(SOBLOTNY ROAD) RT.	37.5
(SOBLOTNY ROAD) LT.	37.5
TOTAL	112.5

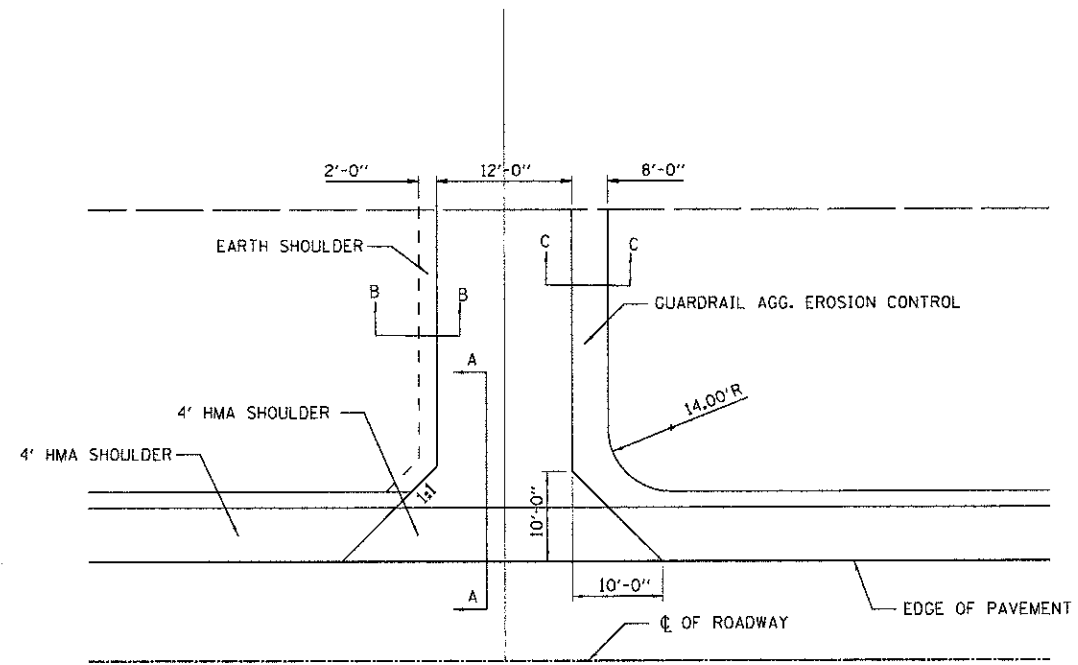
CODE NO.	X5420636
	PIPE CULVERT TO BE CLEANED 36"
	FOOT
LOCATION	
STA. 121+98 LT. (CH 40)	49
TOTAL	49

CODE NO.	78201000
	TERMINAL MARKER - DIRECT APPLIED
	EACH
LOCATION	
LT. STA. 119+80.43	1
LT. STA. 120+80.43	1
LT. STA. 125+28.28	1
RT. STA. 119+31.72	1
(SIDEROAD)	2
RT. STA. 125+03.34	1
TOTAL	7

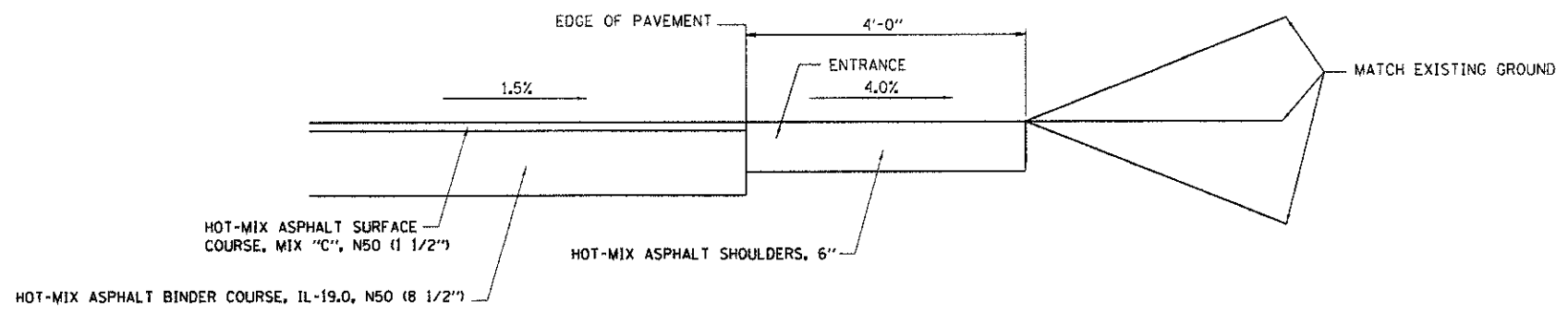
CODE NO.	44000200
	DRIVEWAY PAVEMENT REMOVAL
	UNIT
LOCATION	SQ YD
ENTRANCES	
LT. STA. 124+78.28 TO LT. STA. 125+28.28	76.44
TOTAL	76

CODE NO.	X6310088
	TRAFFIC BARRIER TERMINAL, TYPE 6A (SPECIAL)
	EACH
LOCATION	
LT. STA. 121+26.32 TO LT. STA. 121+70.07	1
LT. STA. 123+09.53 TO LT. STA. 123+53.28	1
RT. STA. 121+06.72 TO RT. STA. 121+50.47	1
RT. STA. 122+89.93 TO RT. STA. 123+33.68	1
TOTAL	4

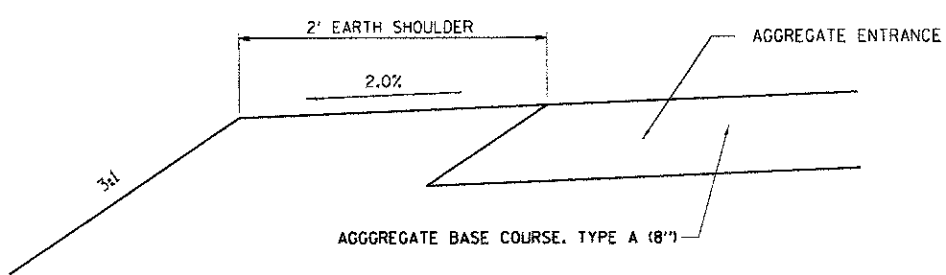
CODE NO.	63100167
	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
	EACH
LOCATION	
LT. STA. 119+80.43 TO LT. STA. 120+80.43	2
LT. STA. 124+78.28 TO LT. STA. 125+28.28	1
RT. STA. 119+31.72 TO RT. STA. 119+81.72	1
(SOBLOTNY ROAD) RT.	1
(SOBLOTNY ROAD) LT.	1
RT. STA. 124+53.34 TO RT. STA. 125+03.34	1
TOTAL	7



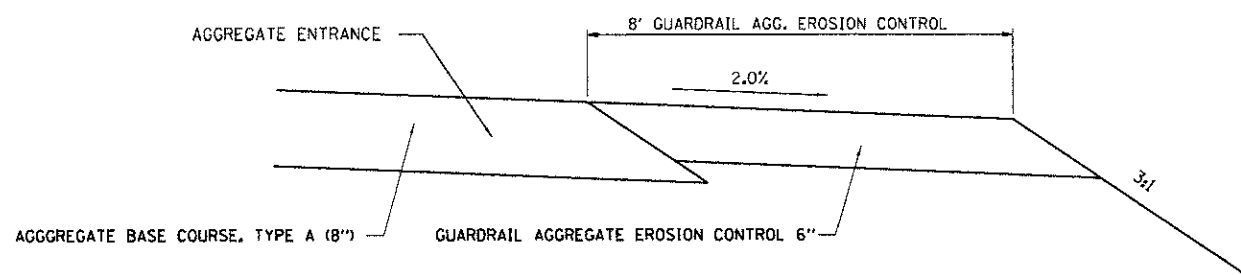
TYPICAL ENTRANCE DETAIL
(STA. 120+98.00 FIELD)



SECTION A-A
ENTRANCE PROFILE CONTROLS

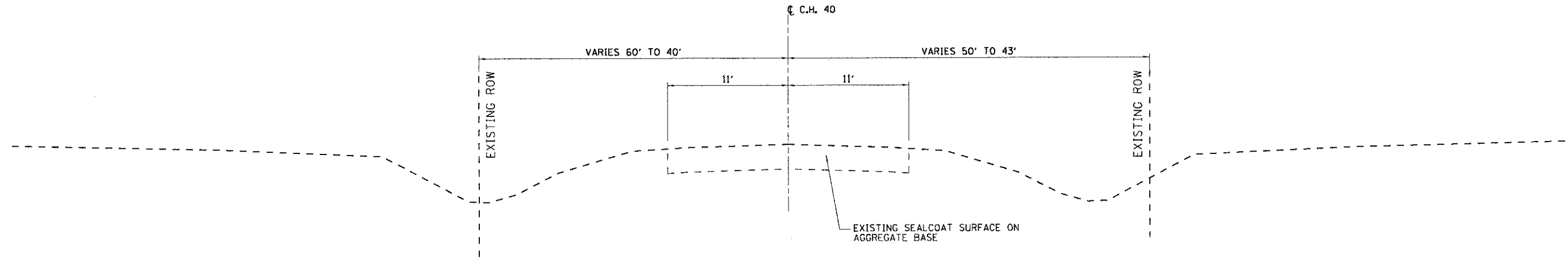


SECTION B-B
SHOULDER ENTRANCE PROFILE CONTROLS



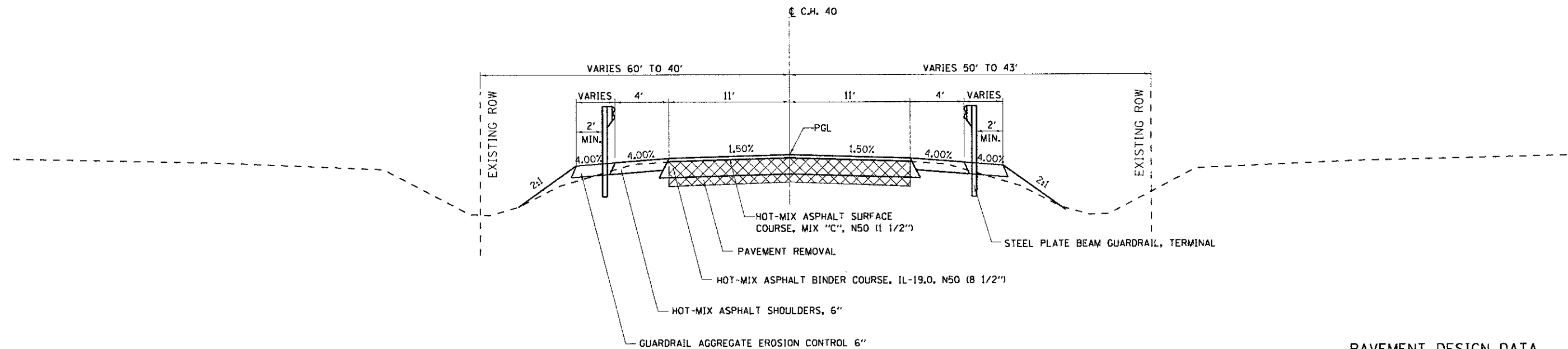
SECTION C-C
SHOULDER ENTRANCE PROFILE CONTROLS

FILE NAME :	USER NAME : #USER#	DESIGNED - KRC	REVISED -	MID-AMERICA ENGINEERING SERVICES SPRINGFIELD ILLINOIS	ENTRANCE DETAILS			RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - OSJ	REVISED -		SCALE: NTS	SHEET NO. 4 OF 32 SHEETS	STA. 119+00.00 TO STA. 125+62.28	CH 40	08-00085-00-BR	SANGAMON	32	4
		CHECKED - JLS	REVISED -					CONTRACT NO. 93585				
		DATE -	REVISED -		FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT							



EXISTING TYPICAL SECTION-C.H.40/NEW CITY ROAD

STA. 119+00.00 TO STA. 121+60.27
 STA. 122+99.73 TO STA. 125+62.28



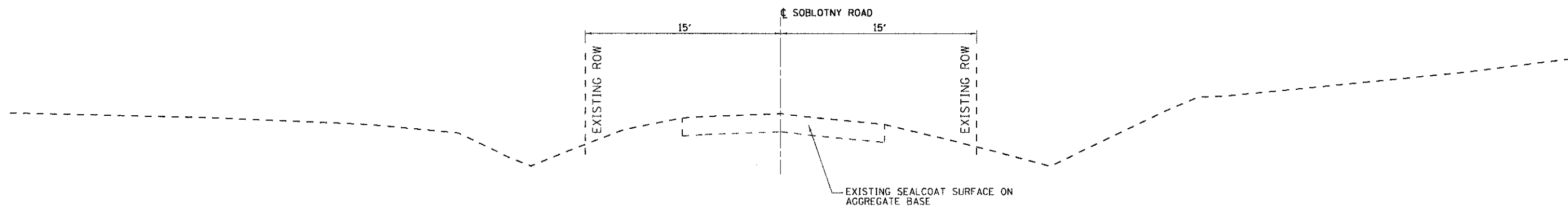
PROPOSED TYPICAL SECTION-C.H.40/NEW CITY ROAD

STA. 119+00.00 TO STA. 121+60.27
 STA. 122+99.73 TO STA. 125+62.28

**PAVEMENT DESIGN DATA
 COUNTY HIGHWAY 40**

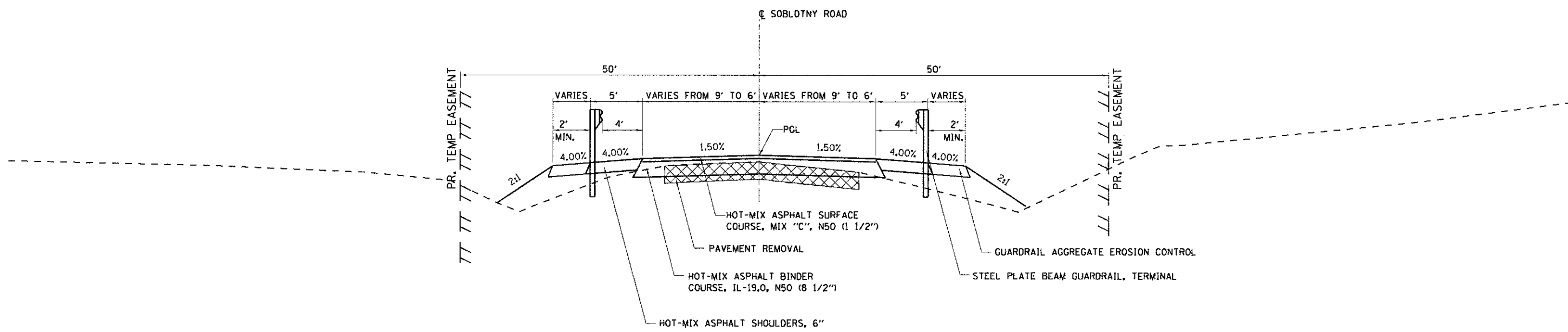
MODIFIED AASHTO DESIGN METHOD
 ROAD CLASSIFICATION: CLASS III 80,000 IL/20 YEAR DESIGN
 STRUCTURAL DESIGN TRAFFIC:
 PV = 1544 SU = 123 MU = 88
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 88% S = 7% M = 5%
 SUBGRADE SUPPORT RATING: FAIR
 TRAFFIC FACTOR = 0.356
 STRUCTURAL NUMBER = 3.5
 10" HMA PAVEMENT
 (1 1/2" HMA SURF. + 8 1/2" HMA BINDER)

FILE NAME *	USER NAME * #USER*	DESIGNED - KRG	REVISED -	MID-AMERICA ENGINEERING SERVICES SPRINGFIELD ILLINOIS	TYPICAL SECTIONS			RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - GSJ	REVISED -		SCALE: NTS	SHEET NO. 5 OF 32 SHEETS	STA. 119+00.00 TO STA. 125+62.28	CH 40	08-00085-00-BR	SANGAMON	32	5
		CHECKED - JLS	REVISED -					CONTRACT NO. 9 5 8 5				
		DATE -	REVISED -		FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT							



EXISTING TYPICAL SECTION- SOBLOTNY ROAD

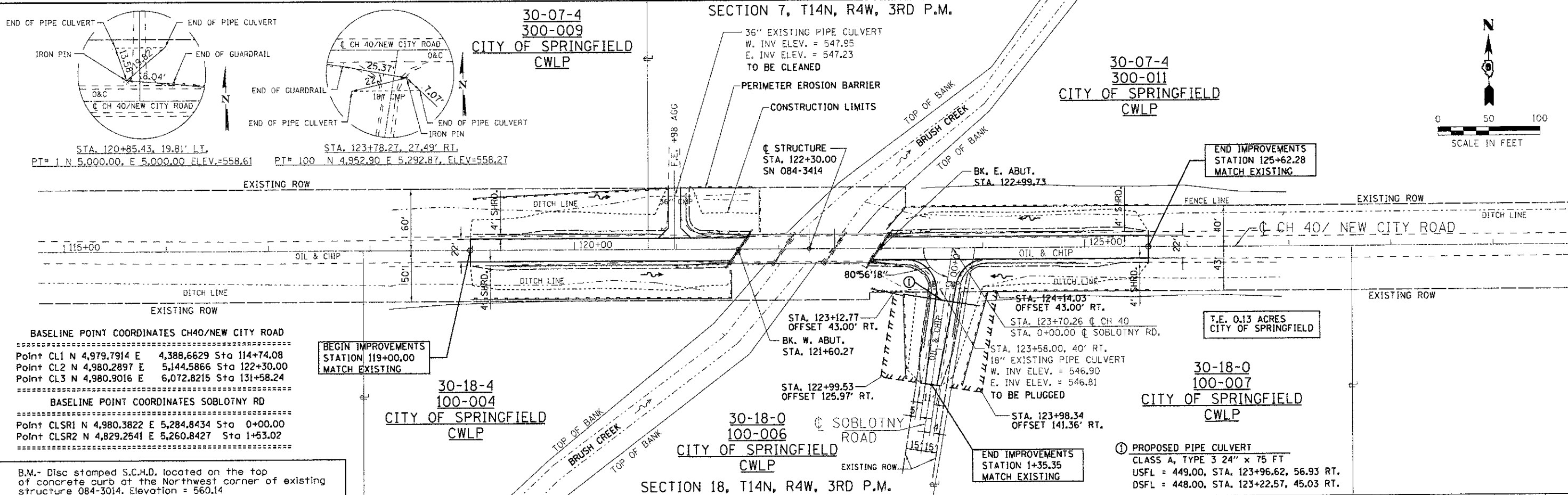
STA. 0+00.00 TO STA. 1+35.35



PROPOSED TYPICAL SECTION- SOBLOTNY ROAD

STA. 0+00.00 TO STA. 1+35.35

FILE NAME =	USER NAME = #USER#	DESIGNED - KRG	REVISED -	MID-AMERICA ENGINEERING SERVICE SPRINGFIELD ILLINOIS	TYPICAL SECTIONS		RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - GSJ	REVISED -		CH 40	08-00085-00-BR	SANGAMON	32	6		
		CHECKED - JLS	REVISED -		SCALE: NTS	SHEET NO. 6 OF 32 SHEETS	STA. 119+00.00 TO STA. 125+62.28	FED. ROAD DIST. NO. 6	ILLINOIS FED. AID PROJECT	CONTRACT NO. 93585	
		DATE -	REVISED -								



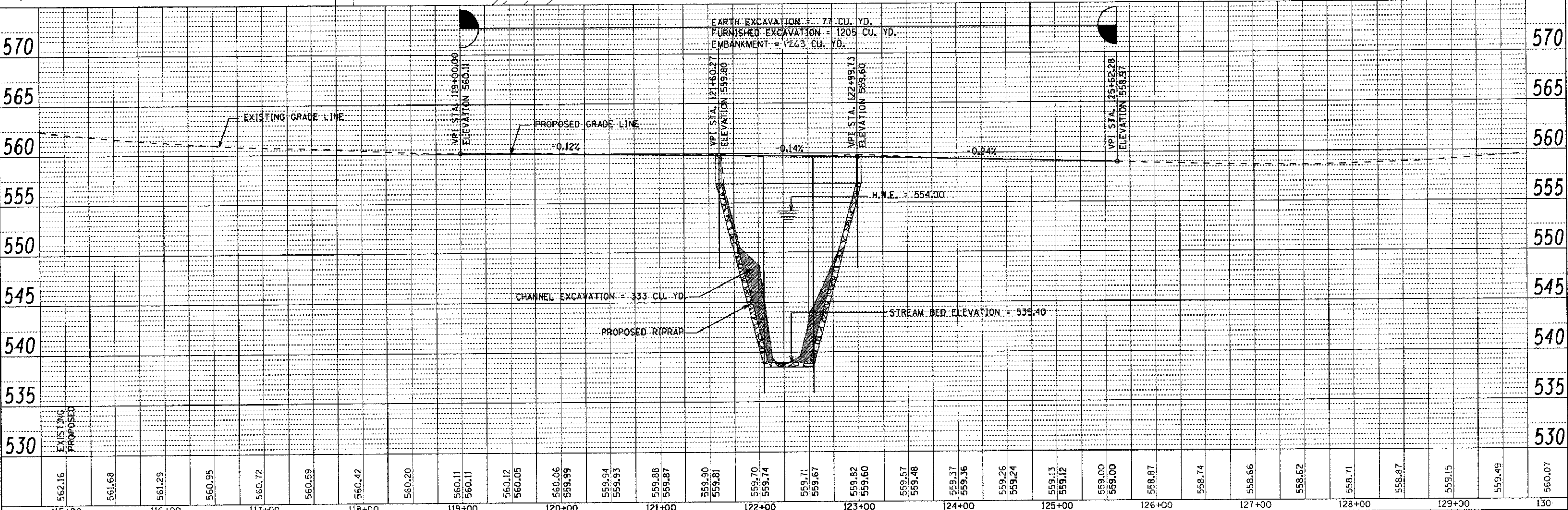
BASELINE POINT COORDINATES CH40/NEW CITY ROAD

Point CL1	N 4,979.7914	E 4,388.6629	Sta 114+74.08
Point CL2	N 4,980.2897	E 5,144.5866	Sta 122+30.00
Point CL3	N 4,980.9016	E 6,072.8215	Sta 131+58.24

BASELINE POINT COORDINATES SOBLOTNY RD

Point CLSR1	N 4,980.3822	E 5,284.8434	Sta 0+00.00
Point CLSR2	N 4,829.2541	E 5,260.8427	Sta 1+53.02

B.M. - Disc stamped S.C.H.D. located on the top of concrete curb at the Northwest corner of existing structure 084-3014. Elevation = 560.14



562.16	561.68	561.29	560.95	560.72	560.59	560.42	560.20	560.11	560.11	560.12	560.05	560.06	559.99	559.94	559.93	559.88	559.87	559.90	559.81	559.70	559.74	559.71	559.67	559.82	559.60	559.57	559.48	559.37	559.36	559.26	559.24	559.13	559.12	559.00	559.00	558.87	558.74	558.66	558.62	558.71	558.87	559.15	559.49	560.07
115+00	116+00	117+00	118+00	119+00	120+00	121+00	122+00	123+00	124+00	125+00	126+00	127+00	128+00	129+00	130																													

PLAN

DATE	BY	APPROVED	PLOTTED	GRADES CHECKED	NOTED	FILED

PROFILE

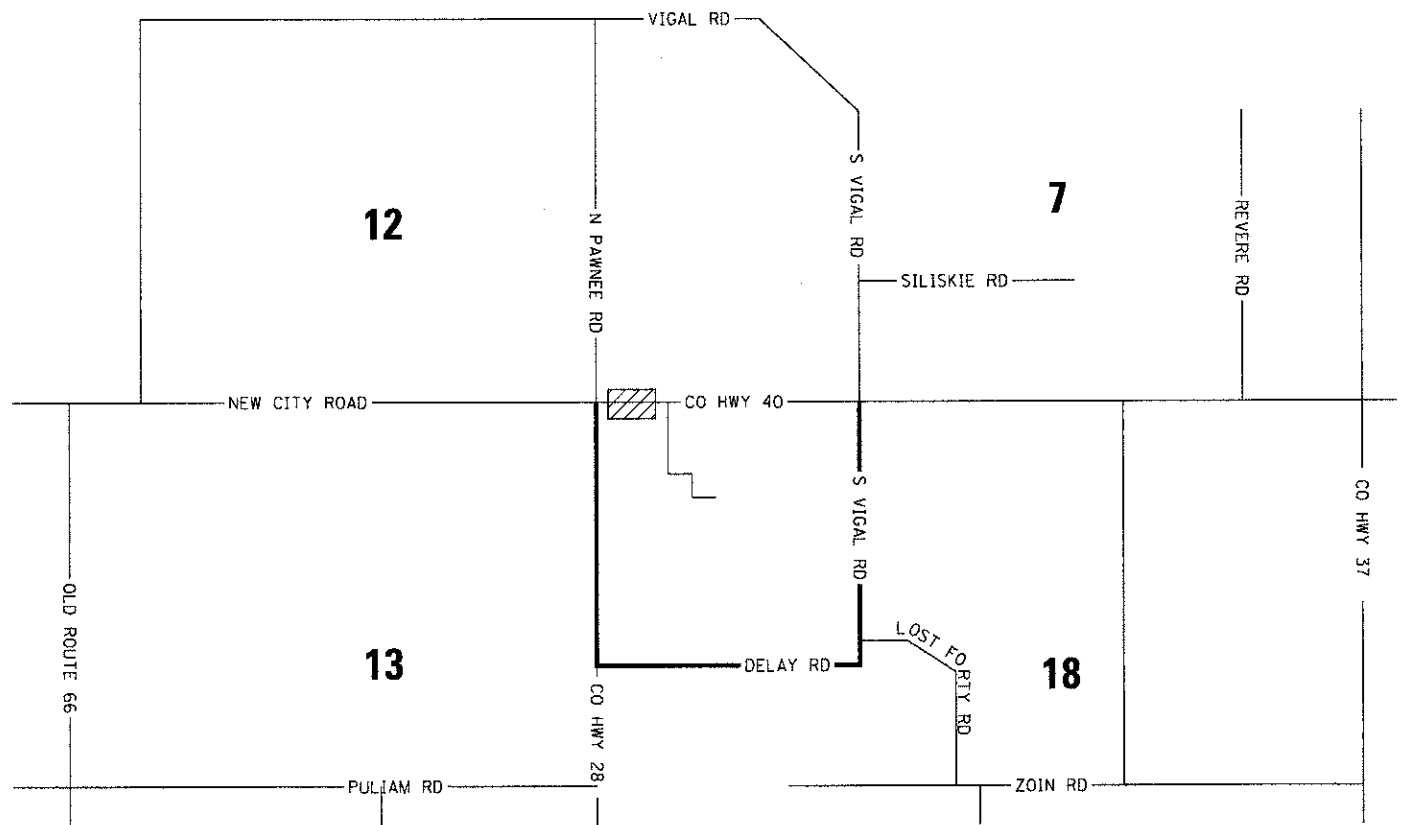
DATE	BY	APPROVED	PLOTTED	GRADES CHECKED	NOTED	FILED

MID-AMERICA ENGINEERING SERVICES
SPRINGFIELD ILLINOIS

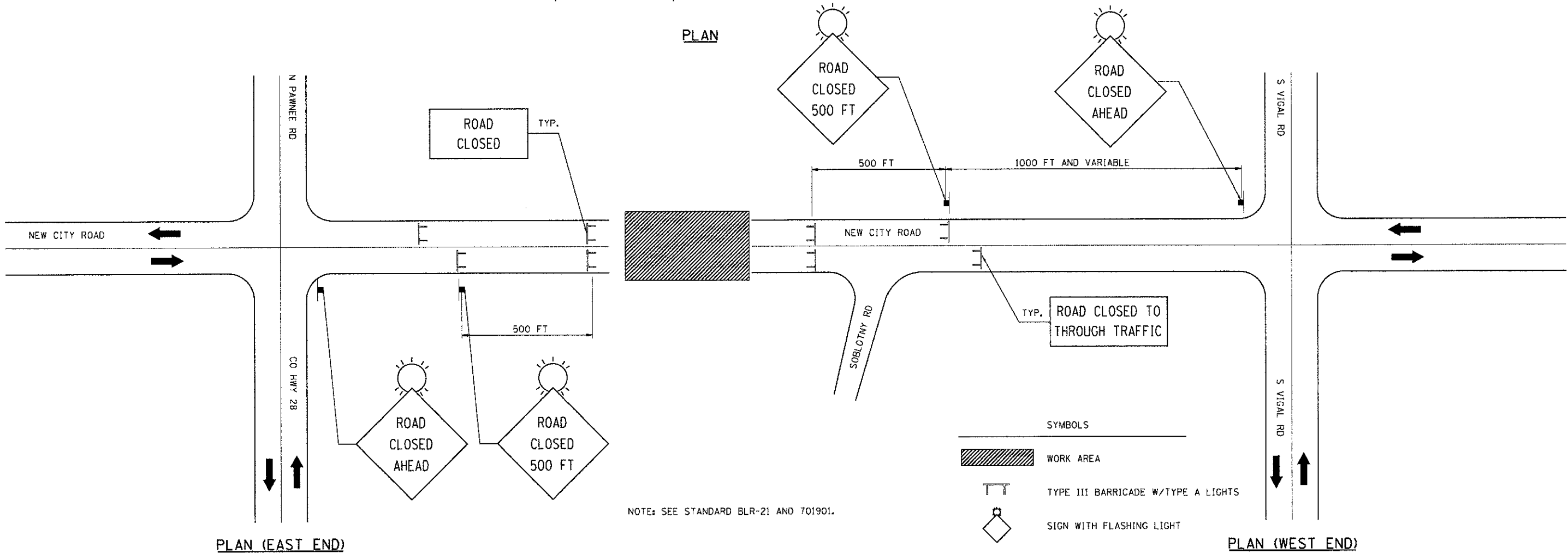
PLAN AND PROFILE




ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 40	08-00085-00-BR	SANGAMON	32	7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: 50 SHEET NO. 7 OF 32 SHEETS STA. 119+00.00 TO STA. 125+62.28



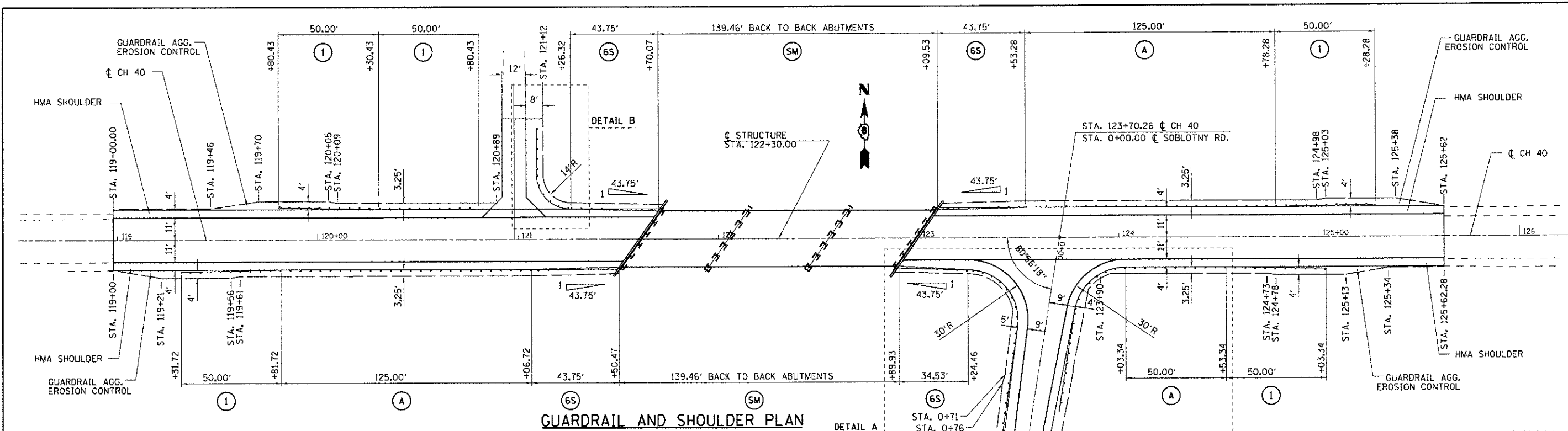
PLAN



- SYMBOLS
-  WORK AREA
 -  TYPE III BARRICADE W/TYPE A LIGHTS
 -  SIGN WITH FLASHING LIGHT

NOTE: SEE STANDARD BLR-21 AND 701901.

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - KRG	REVISED -	MID-AMERICA ENGINEERING SERVICES SPRINGFIELD ILLINOIS	TRAFFIC CONTROL PLAN			RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - GSJ	REVISED -		SCALE: NTS	SHEET NO. 8 OF 32 SHEETS	STA. 119+00.00 TO STA. 125+62.28	CH 40	08-00085-00-BR	SANGAMON	32	8
PLOT DATE = #DATE#	DATE -	CHECKED - JLS	REVISED -				FED. ROAD DIST. NO. 6		ILLINOIS FED. AID PROJECT		CONTRACT NO. 03585	

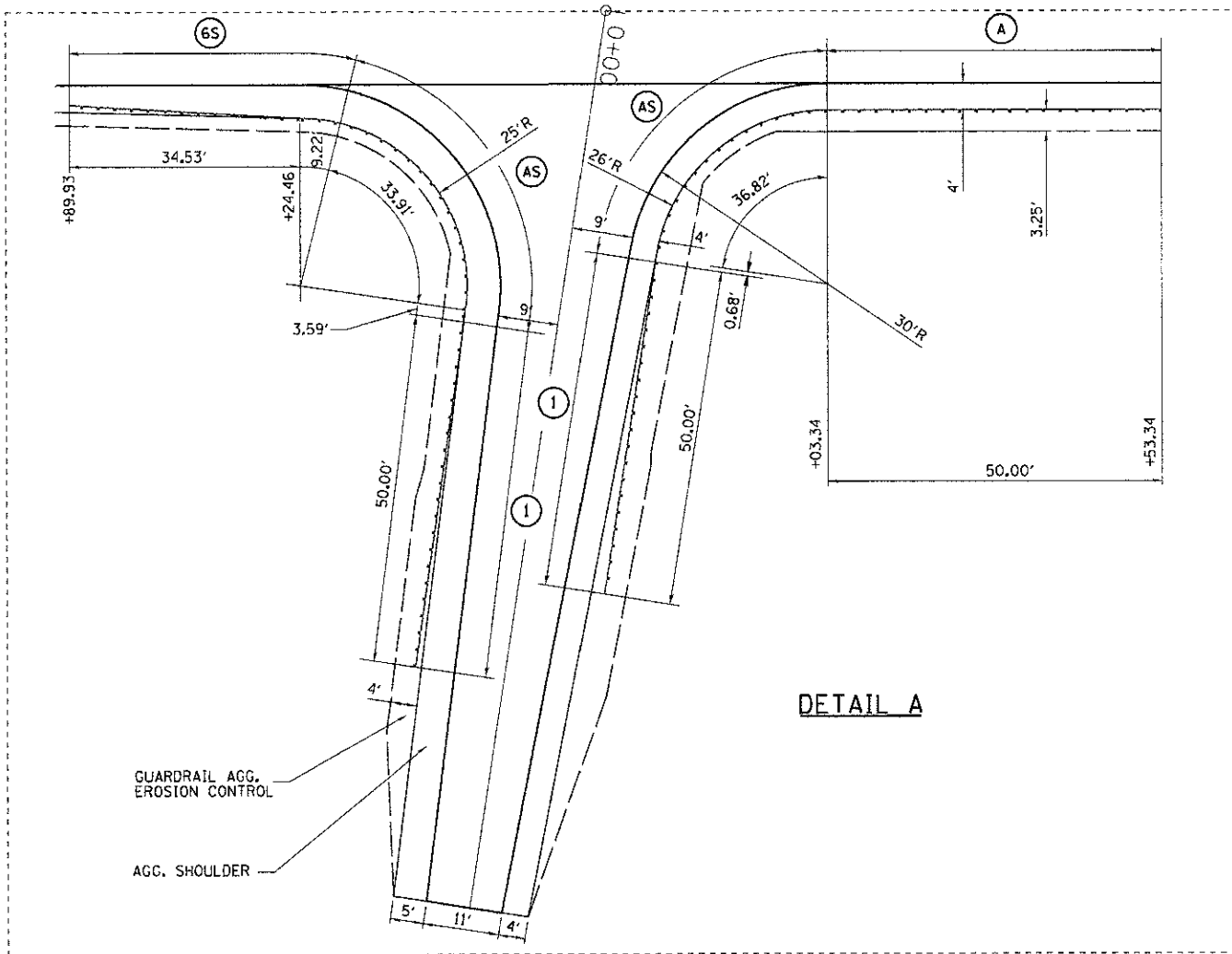


GUARDRAIL AND SHOULDER PLAN

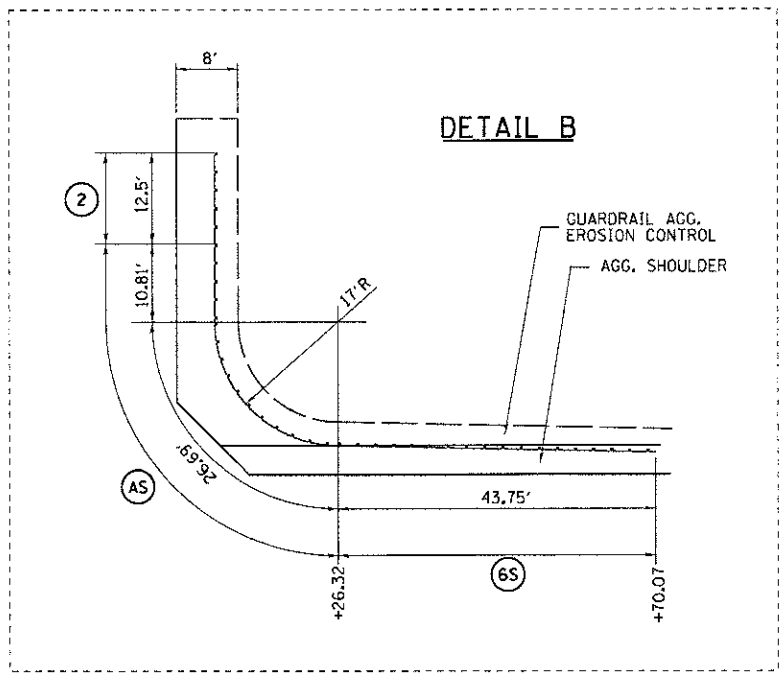
LEGEND

- (A) STEEL PLATE BEAM GUARDRAIL TYPE A, 6' POST
- (6S) TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)
- (AS) STEEL PLATE BEAM GUARDRAIL TYPE A (SPECIAL)
- (SM) STEEL RAILING TYPE SM
- (1) TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)
- (2) TRAFFIC BARRIER TERMINAL TYPE 2

NOTES:
 SEE STANDARD 630301 FOR DETAILS OF SHOULDER WIDENING AT TYPE 1 TERMINALS.
 TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL) SHALL CONFORM TO SECTION 631 OF THE STANDARD SPECIFICATIONS AND STANDARD 631032 EXCEPT THAT THE RAIL ELEMENTS SHALL BE FABRICATED TO THE 1:43.75' TAPER SHOWN ON THE PLANS AND 25' RADIUS SHOWN IN DETAIL A. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL).
 STEEL PLATE BEAM GUARD RAIL TYPE A (SPECIAL) SHALL CONFORM TO SECTION 630 OF THE STANDARD SPECIFICATIONS AND STANDARD 630001 EXCEPT THAT THE RAIL ELEMENTS SHALL BE FABRICATED TO THE RADII SHOWN IN DETAILS A & B. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR THE STEEL PLATE BEAM GUARD RAIL TYPE A (SPECIAL).



DETAIL A

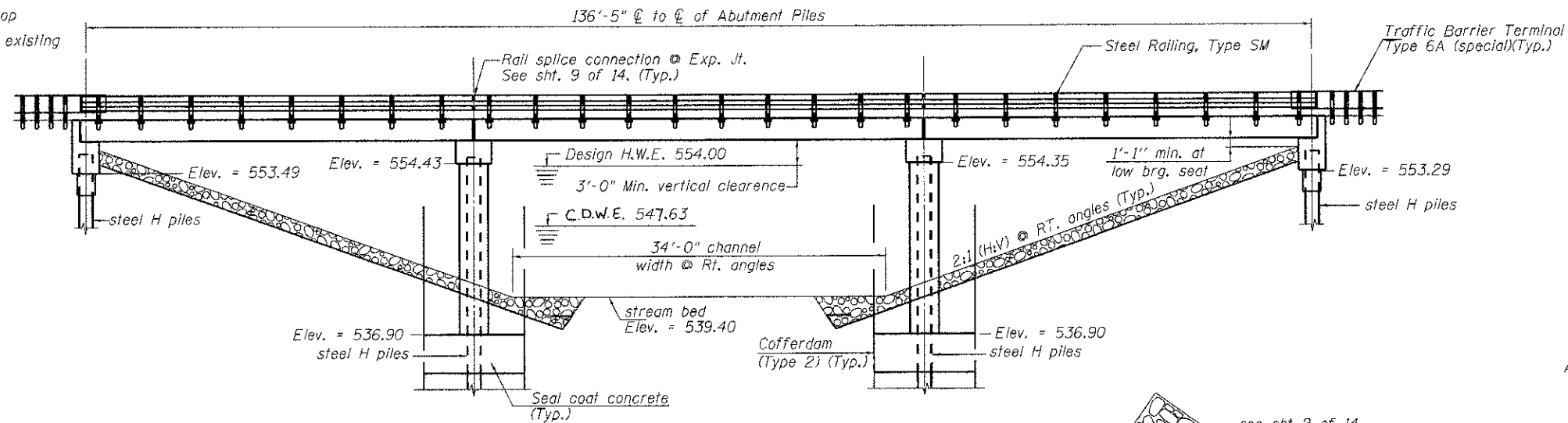


DETAIL B

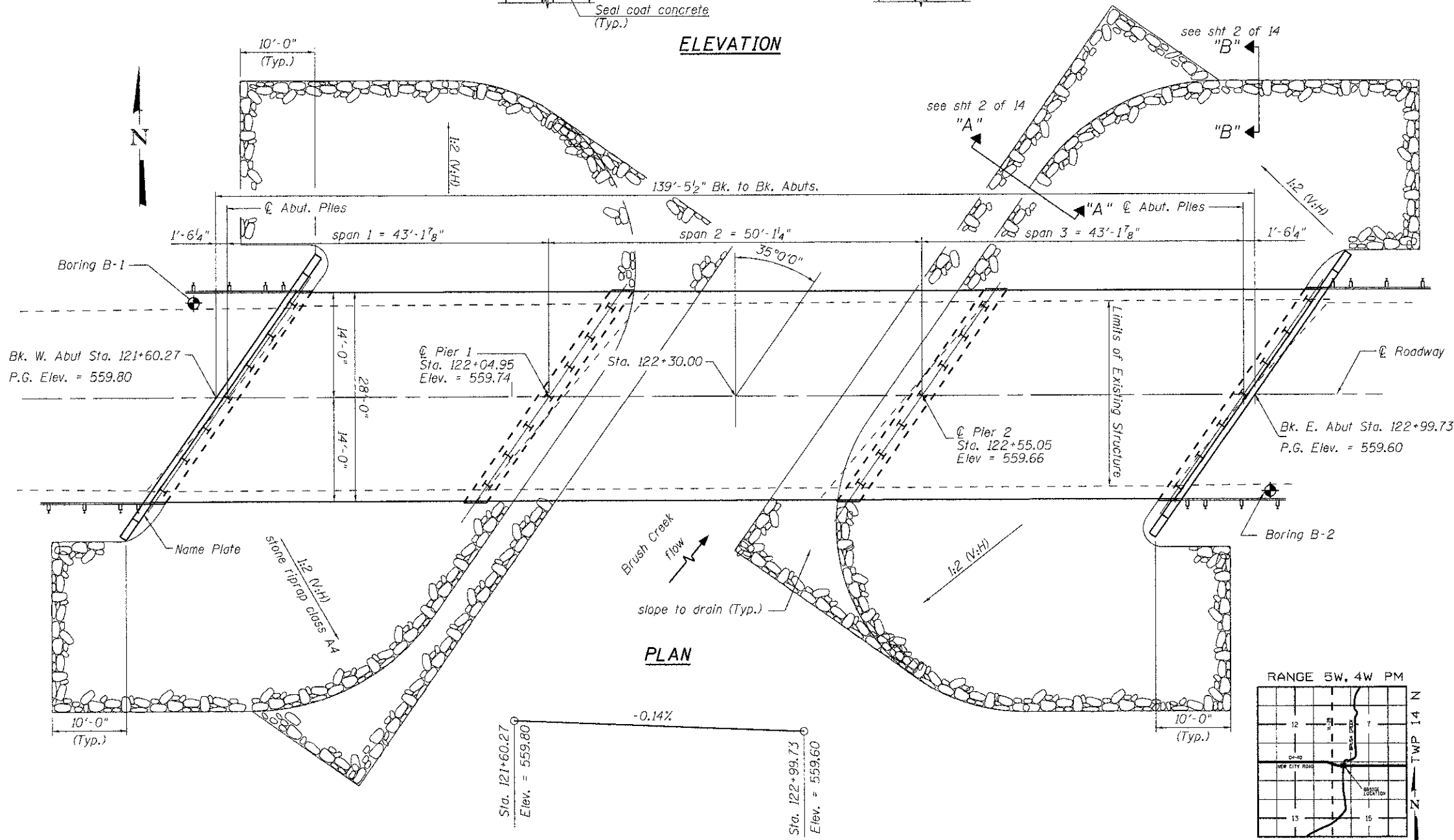
B.M.- Disc stamped S.C.H.D. located on the top of concrete curb at the Northwest corner of existing structure 084-3014. Elevation = 560.14

Existing Structure- S. No.:084-3014
 Built in 1957 as a three simple span P.P.C. deck beam structure on pile Bent Abutments and open pile bent Piers. The existing structure has a total length 139'-5 1/2" back to back of abutments, 27'-4" out to out deck and 40° skew. The existing Bridge shall be removed and replaced. The road shall be closed to traffic during construction.

Salvage- None

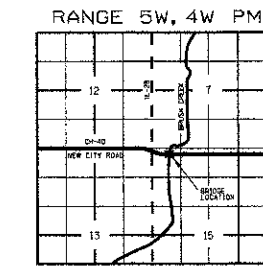


ELEVATION



PLAN

PROFILE GRADE
 Along Centerline Roadway



LOCATION SKETCH

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Superstructure Spans 1 & 3
4. 27"x48" PPC Deck Beam Details Spans 1 & 3
5. 27"x48" PPC Deck Beam Spans 1 & 3
6. Superstructure Span 2
7. 27"x48" PPC Deck Beam Details Span 2
8. 27"x48" PPC Deck Beam Span 2
9. Steel Railing, Type SM with Hot-Mix Asphalt Wearing Surface
10. West Abutment
11. East Abutment
12. Piers 1 & 2
13. HP Pile details
14. Soil Boring Logs

LOADING HL-93

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

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims

DESIGN STRESSES

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi (1/2" ϕ low lax strands)
 $f_{si} = 201,960$ psi (1/2" ϕ low lax strands)
 $f_y = 60,000$ psi (Reinf.)

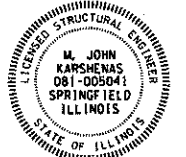
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec.(S_{D1})=0.169g
 Design Spectral Acceleration at 0.2 sec.(S₀₅)=0.33g
 Soil Site Class = D

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 plans. The design is an economical one for the style of structure and complies with requirements of the "A.A.S.H.T.O." LRFD Bridge Design Specifications.



M. JOHN KARSHENAS *M. J. Karshenas*
 Licensed Structural Engineer
 In Illinois No. 081-005041
 Date: 8-22-12
 Licensed Expires: 11/30/2012

GENERAL PLAN & ELEVATION
FAS 624 (CH-40) NEW CITY ROAD
OVER BRUSH CREEK
SANGAMON COUNTY
STATION 122+30
STRUCTURE NO. 084-3414

USER NAME =	DESIGNED - KRG	REVISED ---
PLOT SCALE = NONE	CHECKED - MJK	REVISED ---
PLOT DATE =	DRAWN - GSJ	REVISED ---
	CHECKED - MJK	REVISED ---

MID-AMERICA ENGINEERING SERVICES
SPRINGFIELD ILLINOIS

SHEET NO. 1 OF 14 SHEETS

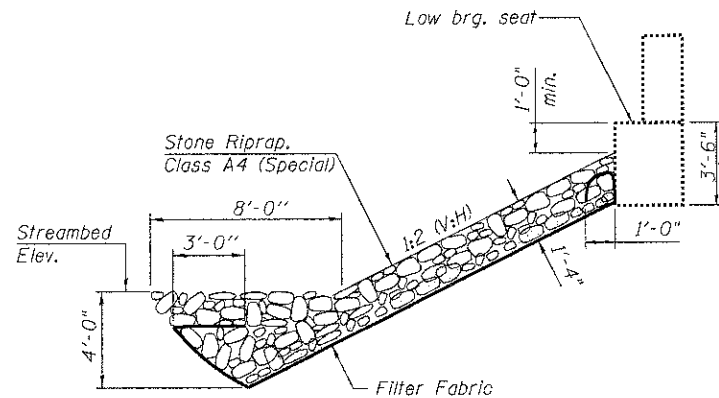
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
624	08-00085-00-BR	SANGAMON	32	10
STRUCTURE NO. 084-3414		CONTRACT NO. 92585		
STA. 122+30		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
4. The Contractor shall drive test piles to 110% of the nominal required bearing specified in the production location at substructures specified or approved by the Engineer before ordering the remainder of piles.
5. Backfill behind the Abutments shall be placed after the Superstructure is in place.
6. All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under section 404 of the Clean Water Act.
7. Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.
8. Construction Permits: This project has been approved for construction under Statewide permit No. 12 as issued by the Department of Natural Resources/ Office of Water resources.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Removal of Existing Structures	Each			1
Hot-Mix Asphalt Surface Course Mix C, N50	Ton	50		50
Waterproofing Membrane System	Sq. Yd.	442		442
Concrete Structures	Cu. Yd.		146.2	146.2
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	3840		3840
Steel Bridge Rail, Type SM	Foot	275		275
Reinforcement Bars, Epoxy coated	Pound		13,970	13,970
Furnishing Steel Piles HP 12x74	Foot		950	950
Driving Piles	Foot		950	950
Test Pile Steel HP 12 X 74	Each		2	2
Stud Shear Connectors	Each		56	56
Name Plates	Each	1		1
Filter Fabric	Sq. Yd.		1766	1766
Stone Riprap, Class A4 (Special)	Ton		744	744
Portland cement mortar fairing course	Foot	823		823
Structure Excavation	Cu. Yd.		98	98
Cofferdam Excavation	Cu. Yd.		240	240
Cofferdam (Type 2) Location 1 (Pier 1)	Each		1	1
Cofferdam (Type 2) Location 2 (Pier 2)	Each		1	1
Seal Coat Concrete	Cu. Yd.		163	163
Concrete Encasement	Cu. Yd.		4.8	4.8



SECTION A-A

DESIGN SCOUR ELEVATION TABLE

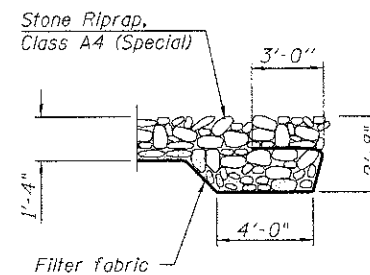
Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	550.54	535.15	535.15	550.37

WATERWAY INFORMATION TABLE

Drainage Area = 43.10 Sq. MI. Low Grade Elev. = 558.60 @ Sta. 127+60.00

Flood Yr.	Freq.	Q C.F.S.	Waterway Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	20	5150	983	983	554.0	0.2	0.3	554.2	554.3
Base	100	7950	1200	1200	555.7	0.2	0.3	555.9	556.0
Overtopping									
Max. Calc.	500	10984	1370	1370	556.6	0.5	0.5	557.4	557.4

10 YEAR VELOCITY EXISTING BRIDGE = 4 ft/s
 10 YEAR VELOCITY PROPOSED BRIDGE = 4 ft/s



SECTION B-B

BRUSH CREEK
 BUILT 20... BY
 SANGAMON COUNTY
 SEC. 08-00085-00-BR
 F.A.S. 684 STA. 122+30
 STR. NO. 084-3414 LOADING HL-93

NAME PLATE
 See Std. 515001

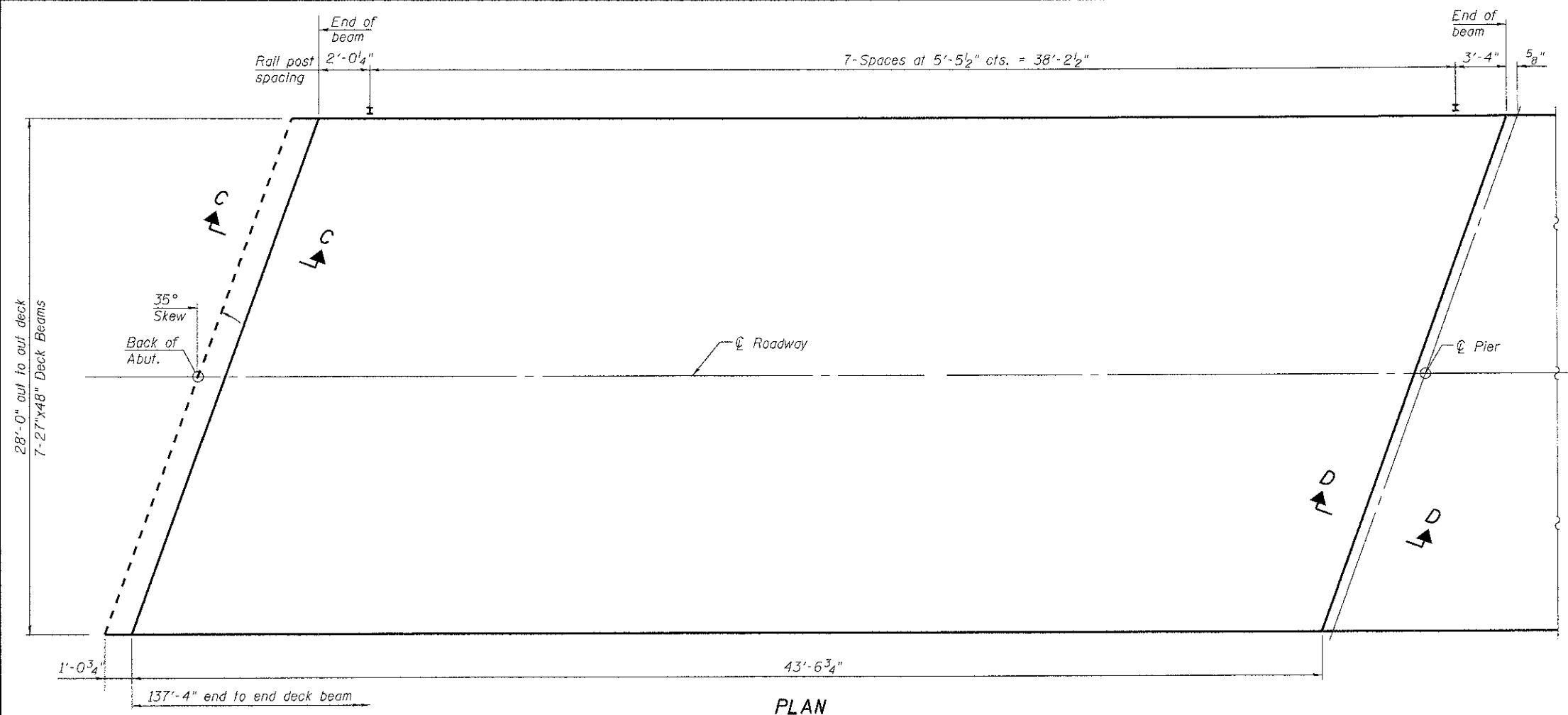
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PLOT SCALE = NONE	CHECKED - MJK	REVISED -
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	CHECKED - MJK	REVISED -

MID-AMERICA ENGINEERING SERVICES
 SPRINGFIELD ILLINOIS

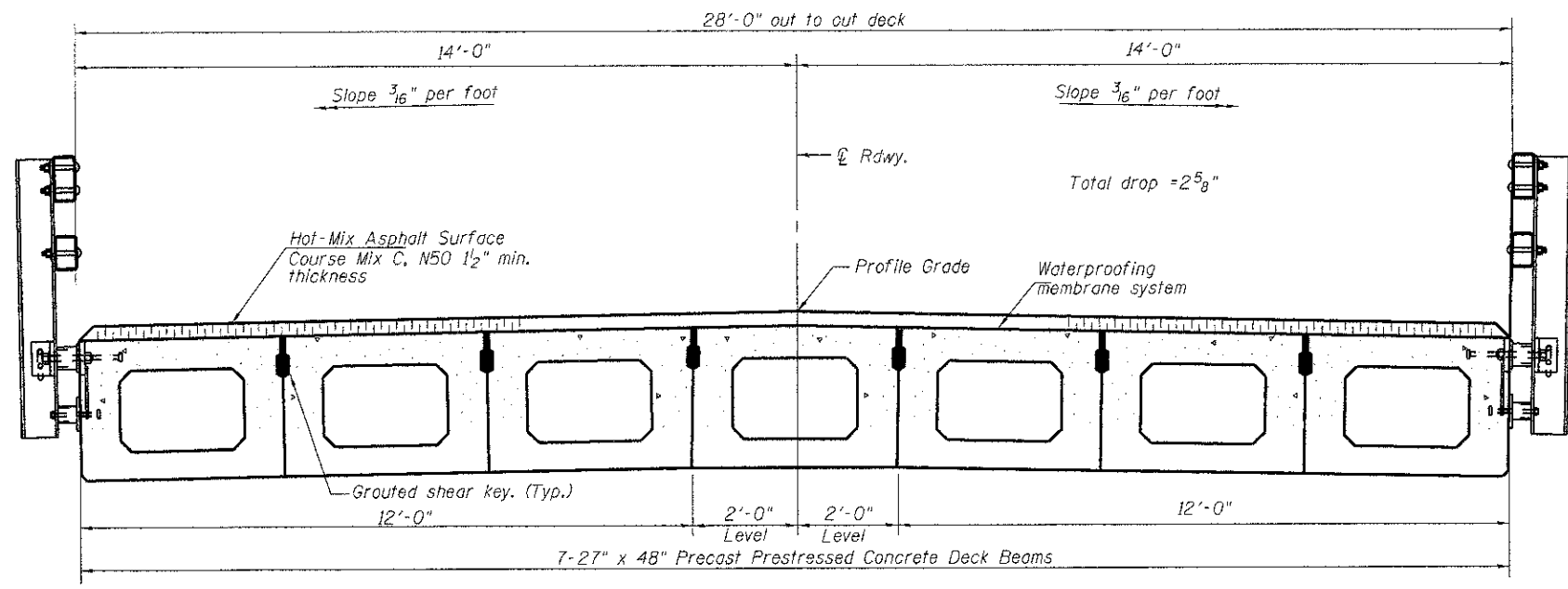
GENERAL DATA
 STRUCTURE NO 084-3414

SHEET NO. 2 OF 14 SHEETS

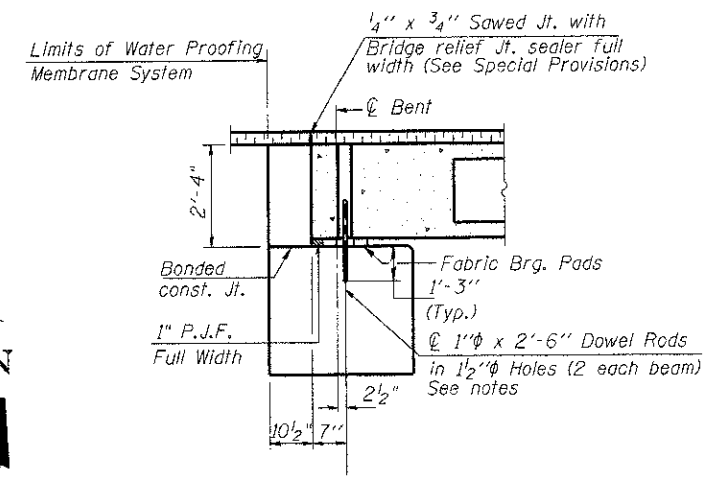
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624	08-00085-00-BR	SANGAMON	32	11
STRUCTURE NO. 084-3414			CONTRACT NO. 93585	
STA. 122+30			ILLINOIS FED. AID PROJECT	



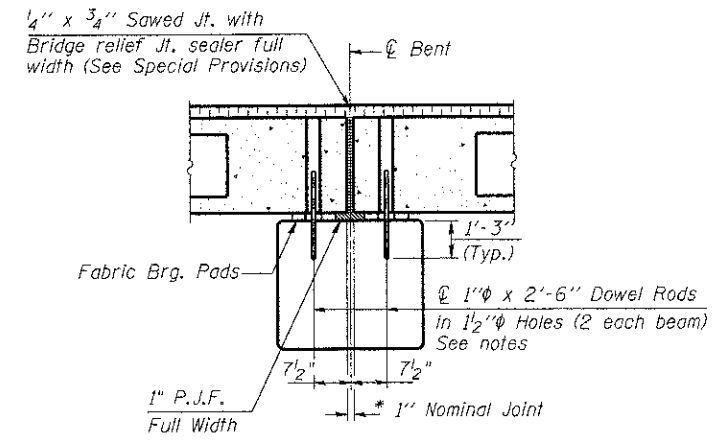
PLAN



CROSS SECTION

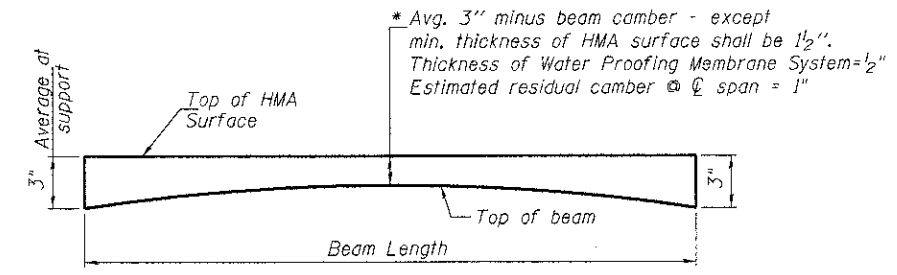


SECTION C-C
(Dimensions are at Rt. L's)



SECTION D-D
(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.



ANTICIPATED HMA WEARING SURFACE PROFILE
(For information only)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Hot-Mix Asphalt Surface Course, Mix C, N50	Tons	17

Notes:
See sheet 4 of 14 for Deck Beam Details, Fabric Bearing Pads and Bill of Material.
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys. Cost included in "PPC Deck Beams (27" depth)."

PDS-HMA-M-R34-L 7-1-10

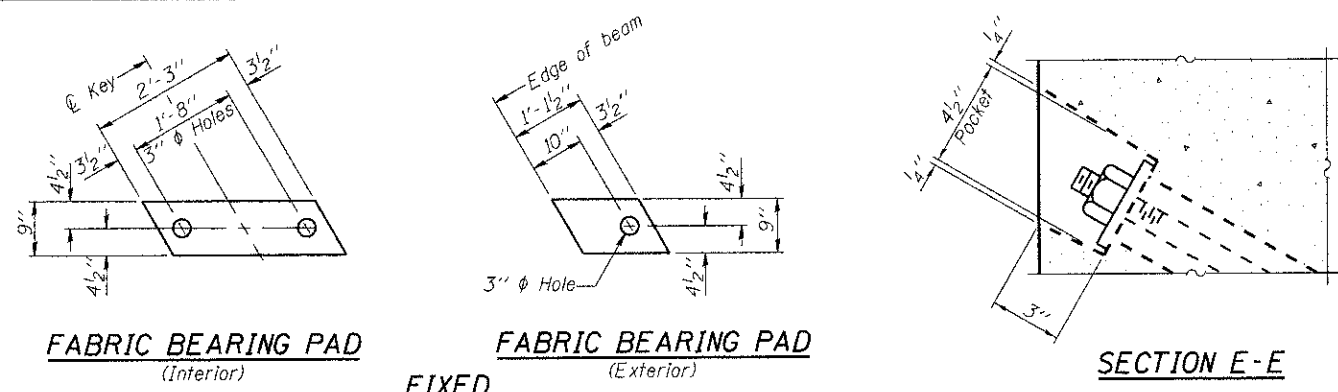
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MID-AMERICA ENGINEERING SERVICES
SPRINGFIELD ILLINOIS

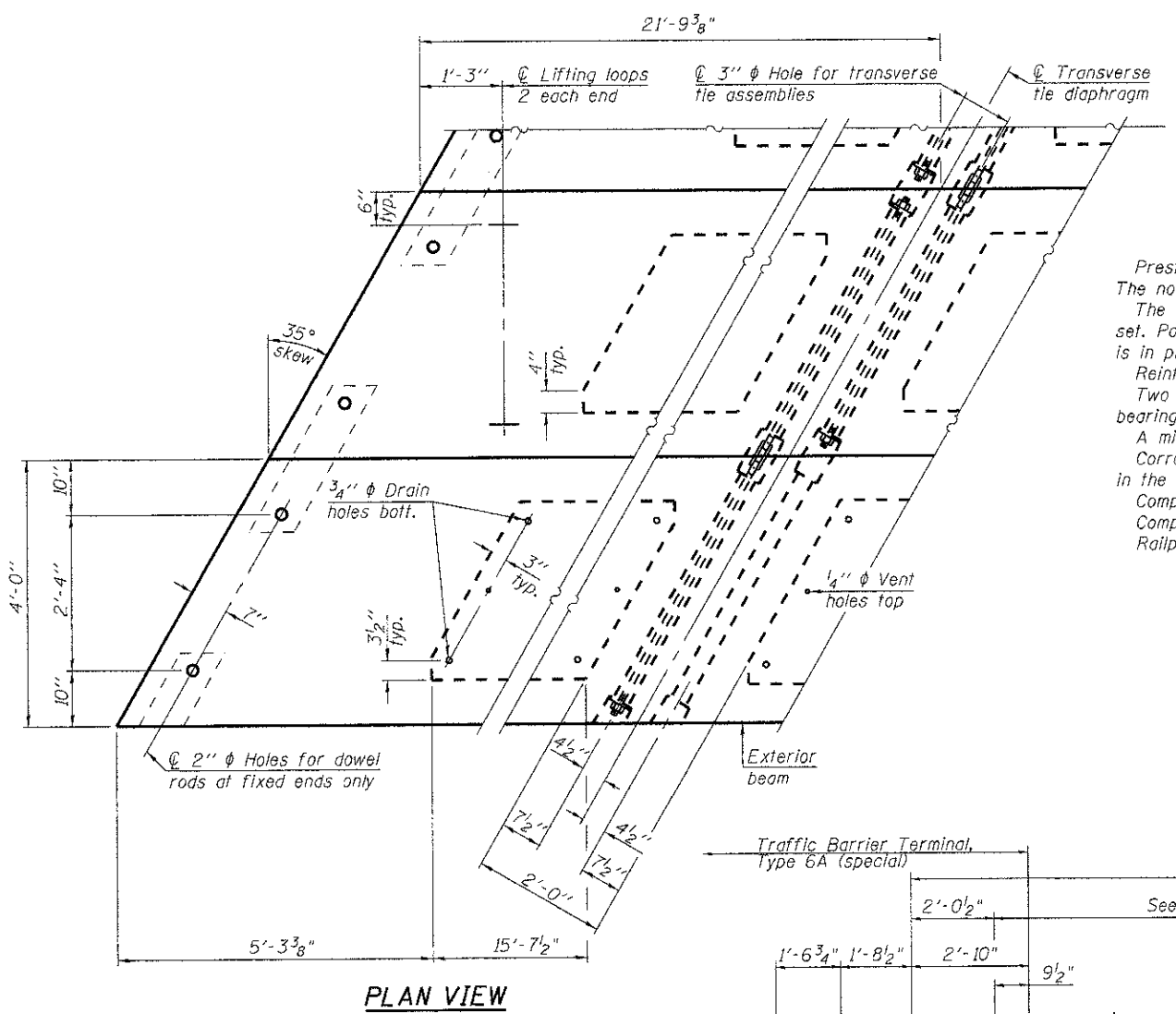
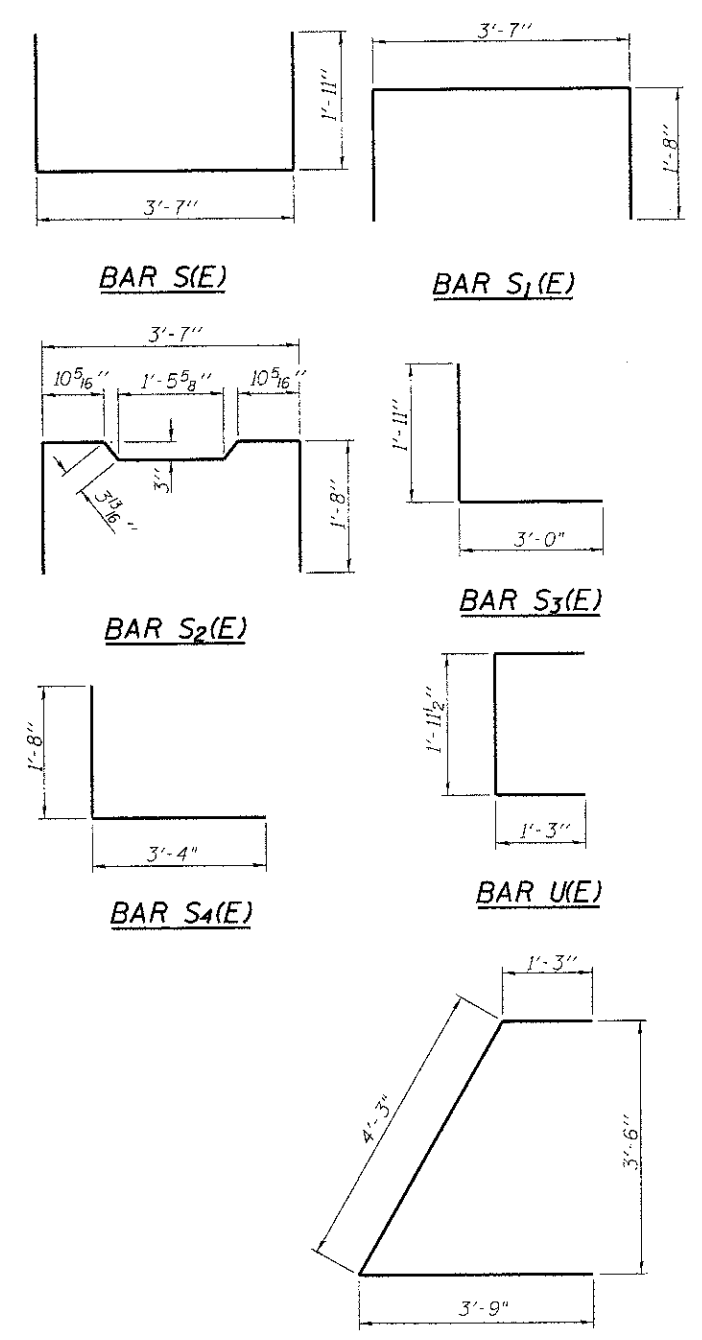
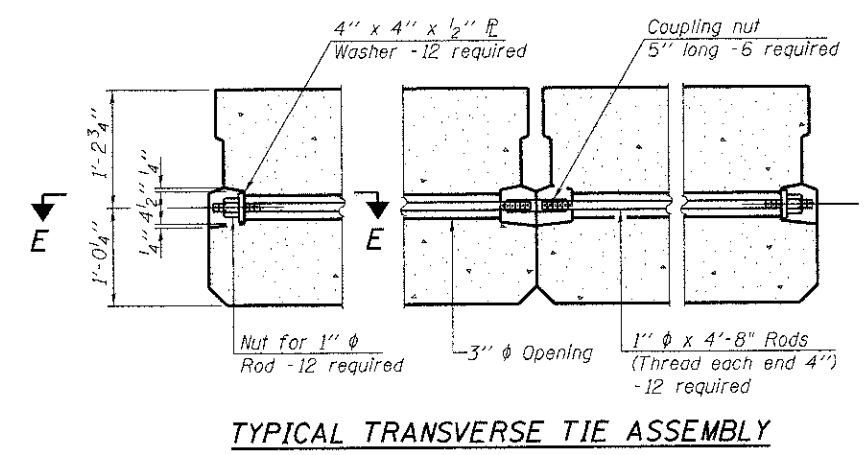
SUPERSTRUCTURE SPANS 1 & 3
STRUCTURE NO 084-3414

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
624	08-00085-00-BR	SANGAMON	32	12
STRUCTURE NO. 084-3414		CONTRACT NO. 3585		
STA. 122+30		ILLINOIS FED. AID PROJECT		

SHEET NO. 3 OF 14 SHEETS



Notes:
All bearing pads shall be 1" thick.



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" 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.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

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" lifting pin shall be used to engage the lifting loops during handling.

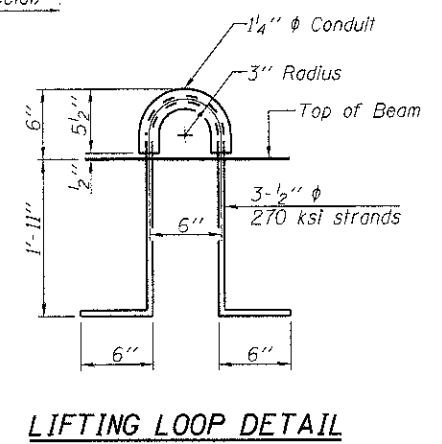
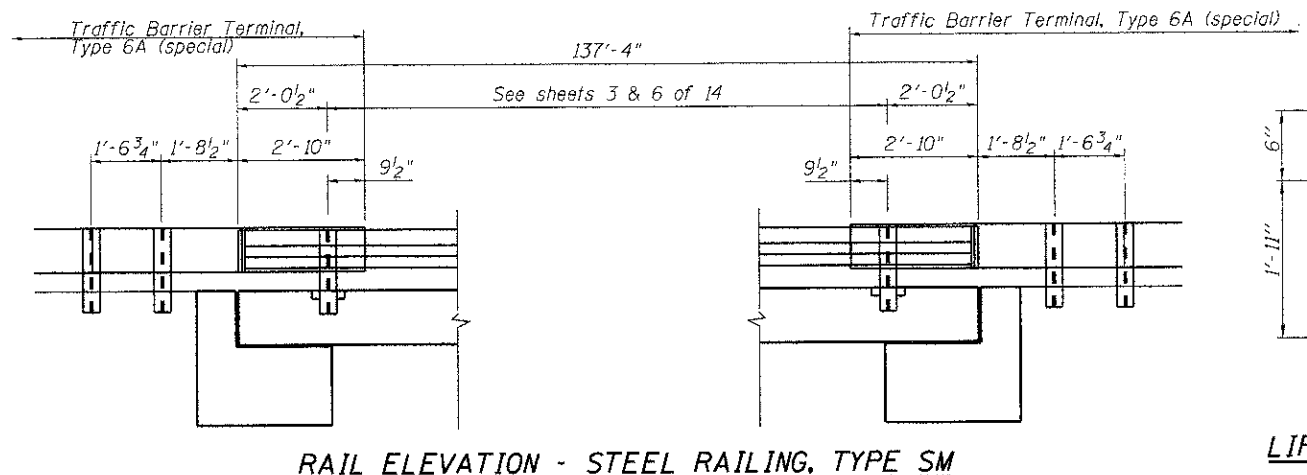
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

Railpost anchor devices (Sht. 9 of 14) to be cast into exterior face of outside beams.

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



BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	2440
-------------------------------------------------	---------	------

PD-2748-LD

7-1-10

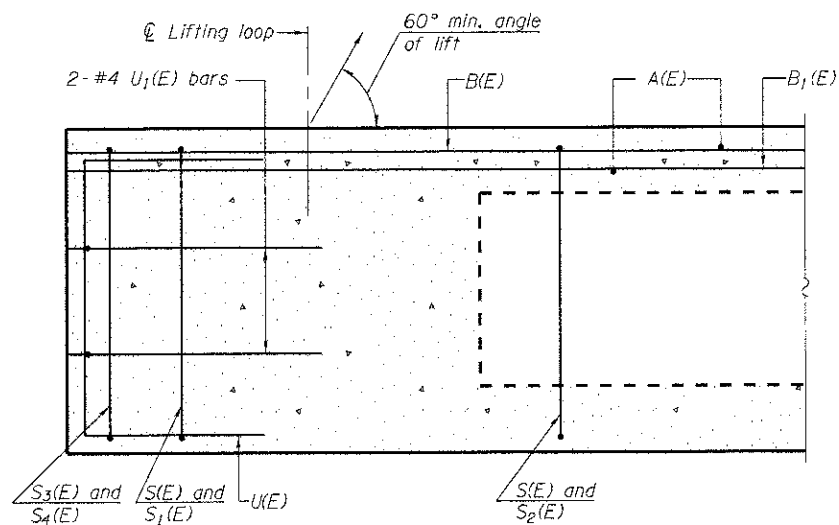
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MID-AMERICA ENGINEERING SERVICES
SPRINGFIELD ILLINOIS

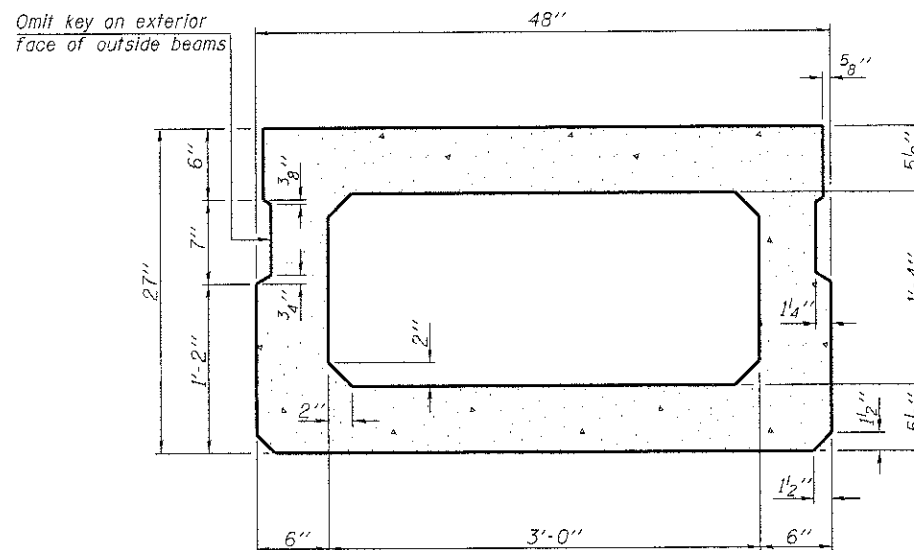
27"x48" PPC DECK BEAM DETAILS SPANS 1 & 3
STRUCTURE NO 084-3414

SHEET NO. 4 OF 14 SHEETS

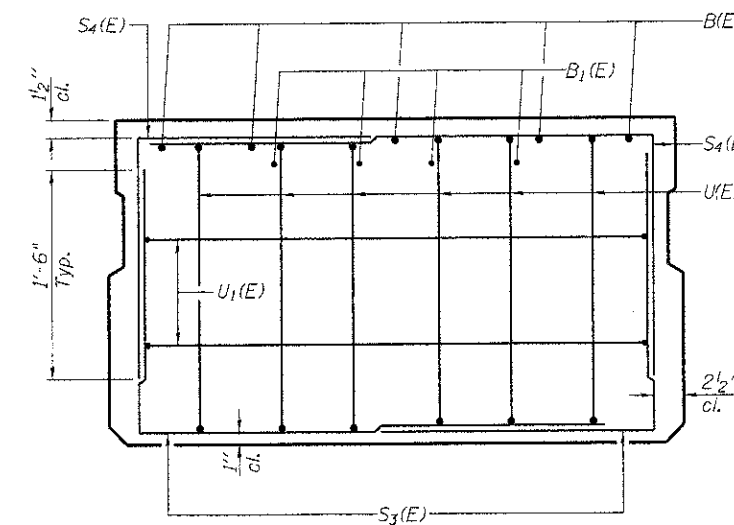
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STRUCTURE NO. 084-3414		CONTRACT NO. 93585		
STA. 122+30		ILLINOIS FED. AID PROJECT		



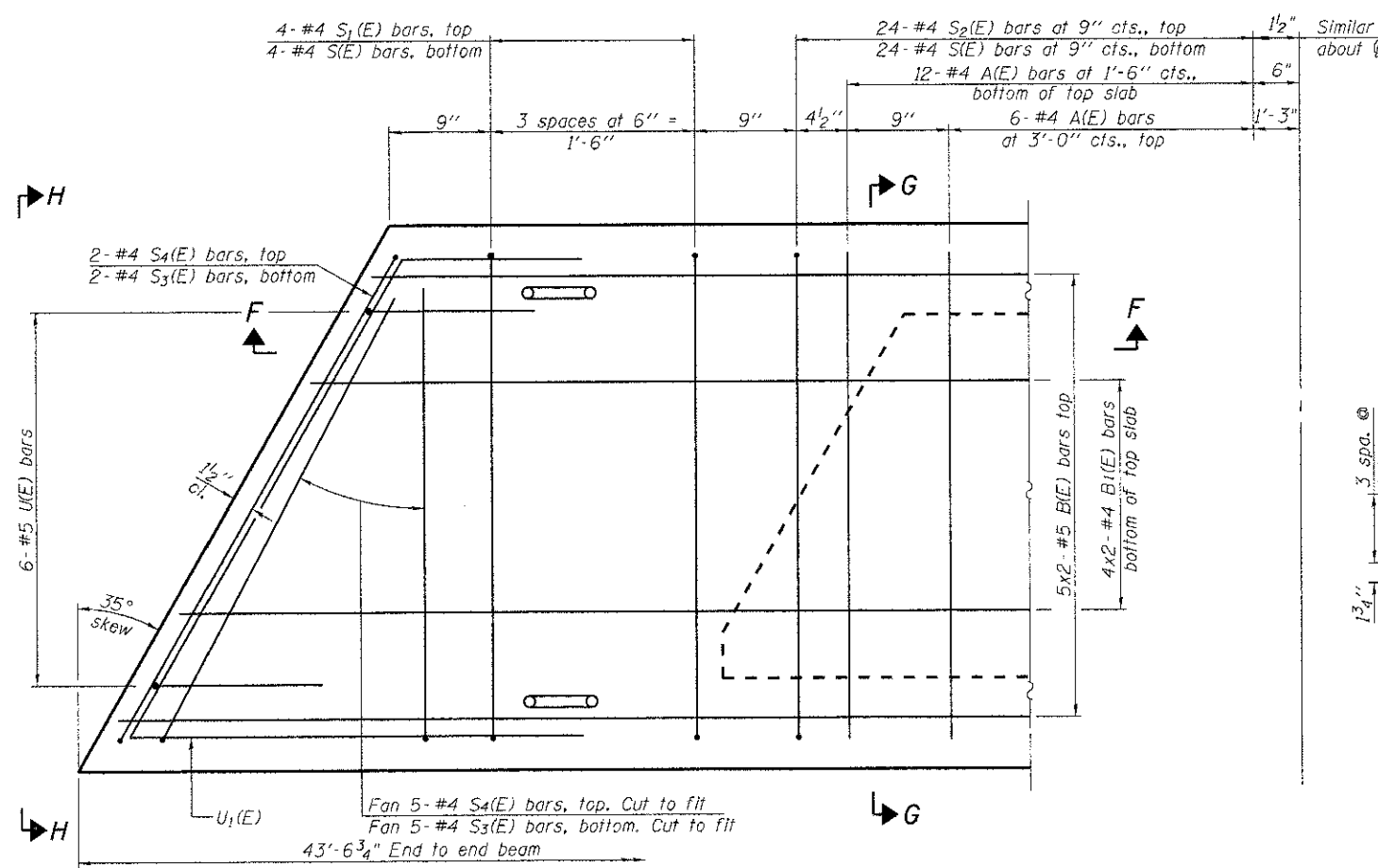
SECTION F-F



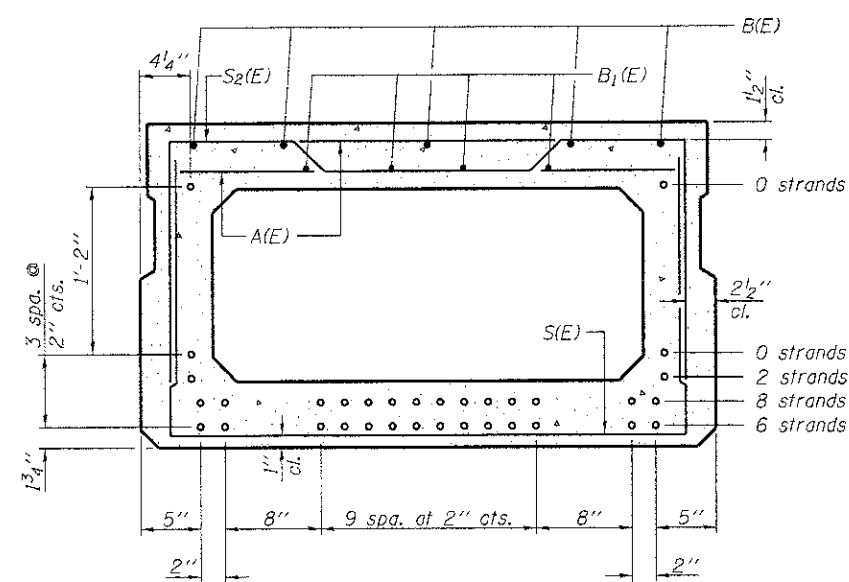
SECTION G-G
(Showing dimensions)



VIEW H-H



PLAN VIEW



SECTION G-G
(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)	36	#4	3'-7"	—
B(E)	10	#5	23'-3"	—
B1(E)	8	#4	22'-10"	—
S(E)	56	#4	7'-5"	U
S1(E)	8	#4	6'-11"	U
S2(E)	48	#4	7'-2"	U
S3(E)	14	#4	4'-11"	J
S4(E)	14	#4	5'-0"	J
U(E)	12	#5	4'-6"	C
U1(E)	4	#4	9'-3"	C

Note: See sheet 4 of 14 for additional details and Bill of Material.

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.

5x2-#5 etc. indicates 5 lines of bars with 2 lengths per line

MINIMUM BAR LAP

Unless noted otherwise
#4 bar = 2'-0"
#5 bar = 2'-6"

PD-2748-L

7-1-10

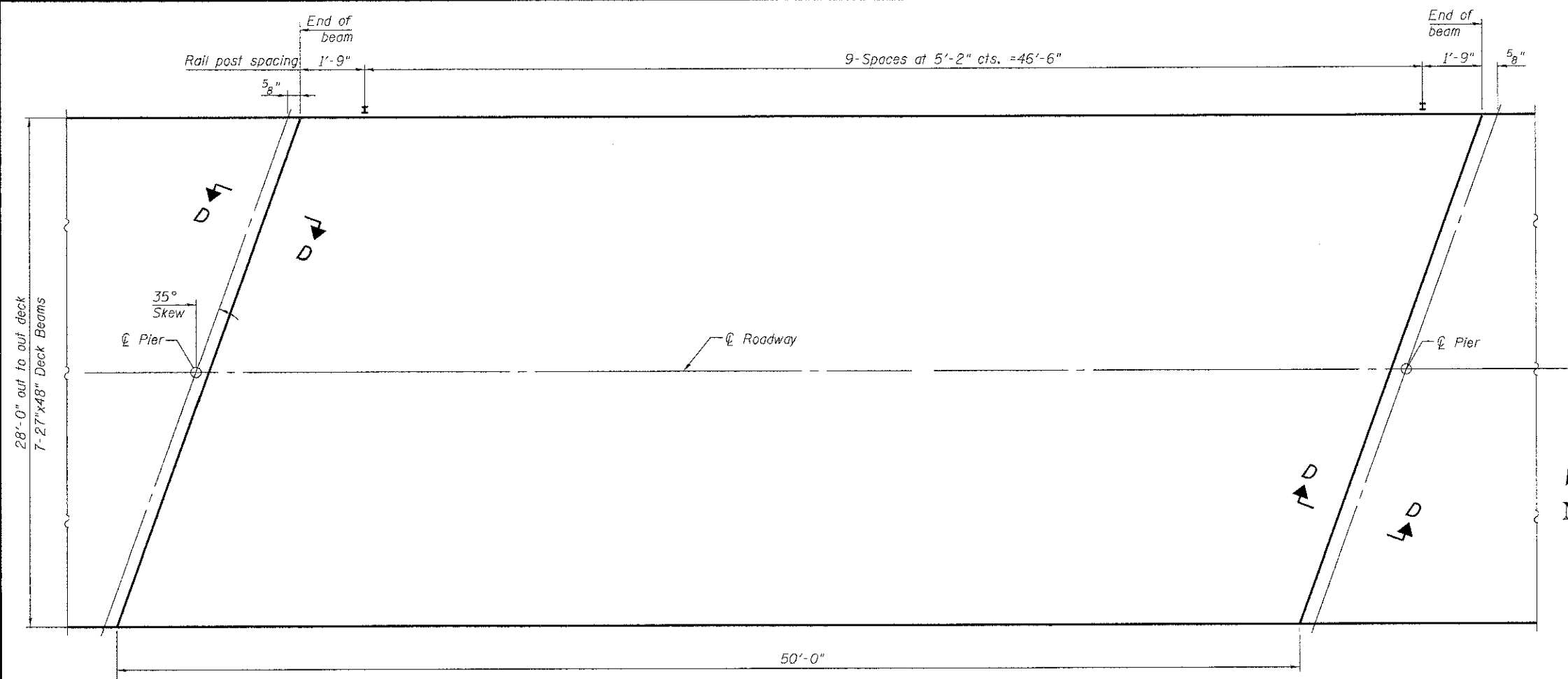
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DESIGNED - MJK	REVISED - ---	
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MID-AMERICA ENGINEERING SERVICES
SPRINGFIELD ILLINOIS

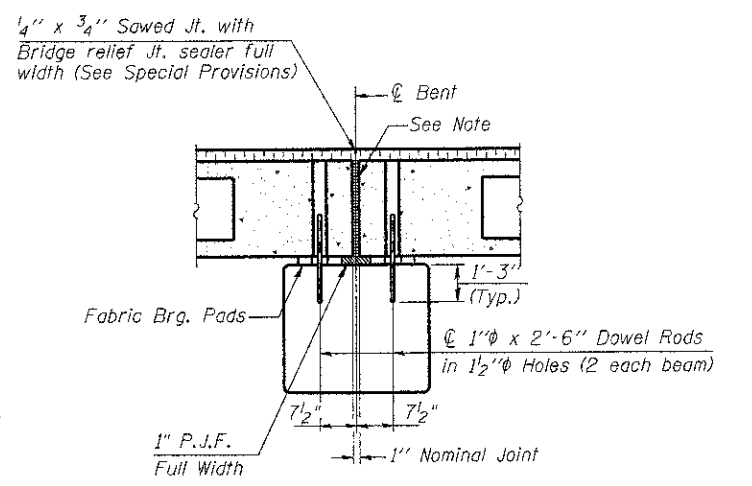
27"x48" PPC DECK BEAM SPANS 1 & 3
STRUCTURE NO 084-3414

SHEET NO. 5 OF 14 SHEETS

F.A.S. RTE. 624	SECTION 08-00085-00-BR	COUNTY SANGAMON	TOTAL SHEETS 32	SHEET NO. 14
STRUCTURE NO. 084-3414		CONTRACT NO. 93585		
STA. 122+30 ILLINOIS FED. AID PROJECT				



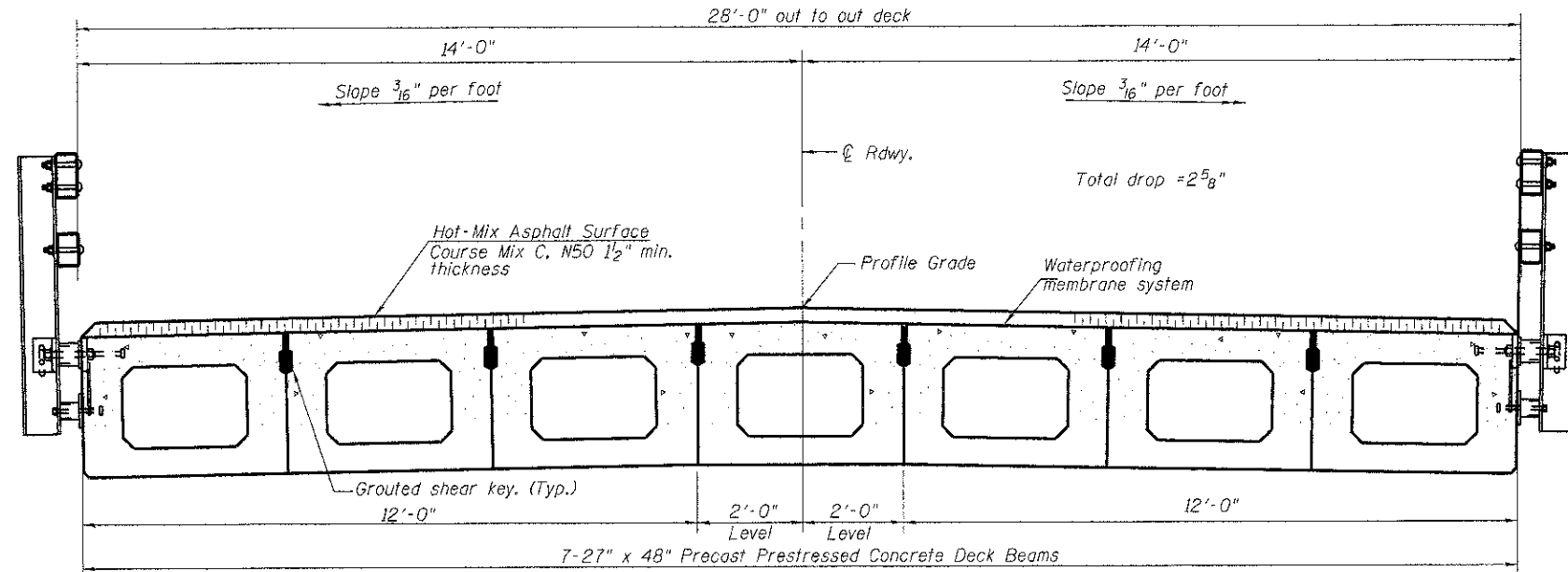
PLAN



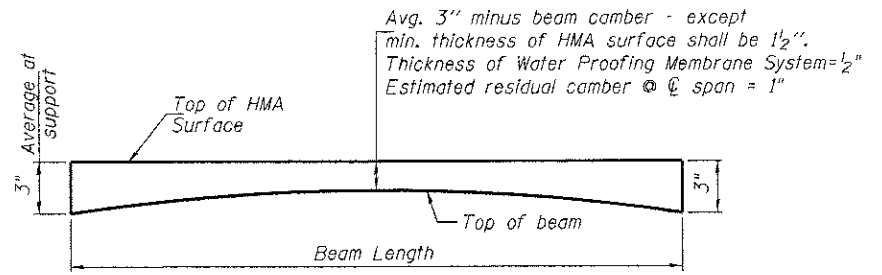
SECTION D-D

(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.



CROSS SECTION



ANTICIPATED HMA WEARING SURFACE PROFILE

(For information only)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Hot-Mix Asphalt Surface Course, Mix C, N50	Tons	19.5

Notes:
See sheet 7 of 14 for Deck Beam Details, Fabric Bearing Pads and Bill of Material.
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
Cost included in "PPC Deck Beams (27" depth)."

PDS-HMA-M-R34-L 7-1-10

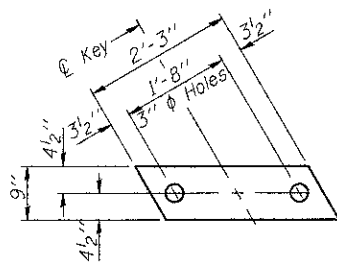
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	CHECKED - MJK	REVISED
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MID-AMERICA ENGINEERING SERVICES
SPRINGFIELD ILLINOIS

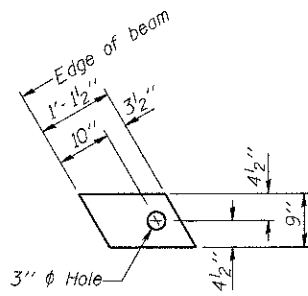
SUPERSTRUCTURE SPAN 2
STRUCTURE NO 084-3414

SHEET NO. 6 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
624	08-00085-00-BR	SANGAMON	32	15
STRUCTURE NO. 084-3414			CONTRACT NO. 93-085	
STA. 122+30		ILLINOIS FED. AID PROJECT		



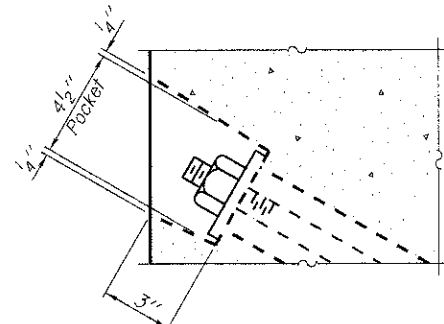
FABRIC BEARING PAD
(Interior)



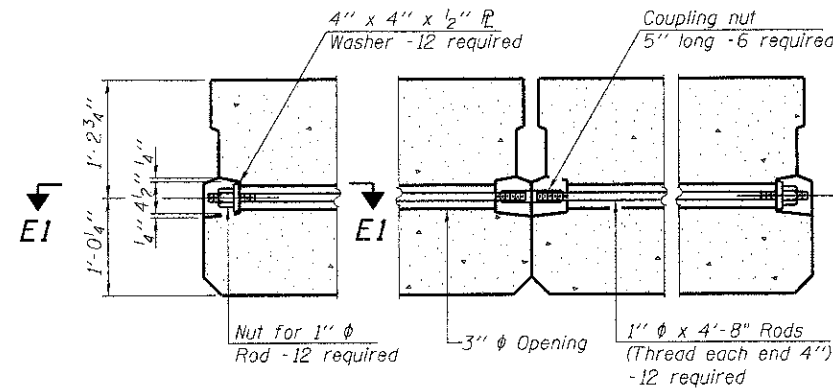
FABRIC BEARING PAD
(Exterior)

Notes:
All bearing pads shall be 1" thick.

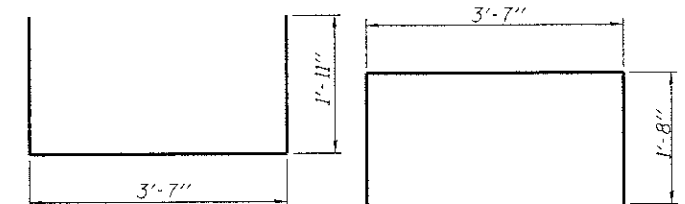
FIXED



SECTION E1-E1

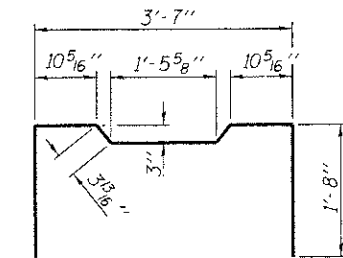


TYPICAL TRANSVERSE TIE ASSEMBLY

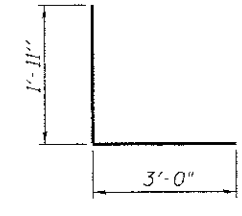


BAR S1(E)

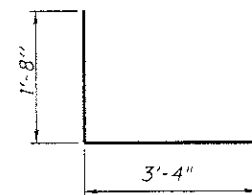
BAR S1(E)



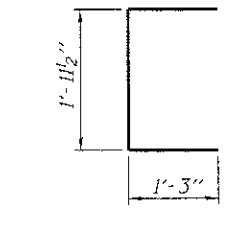
BAR S2(E)



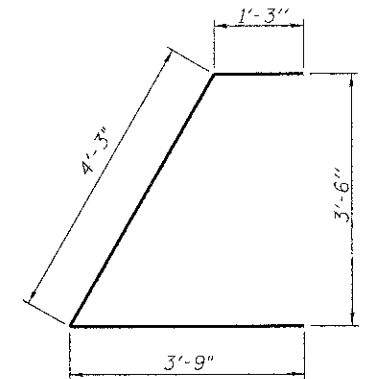
BAR S3(E)



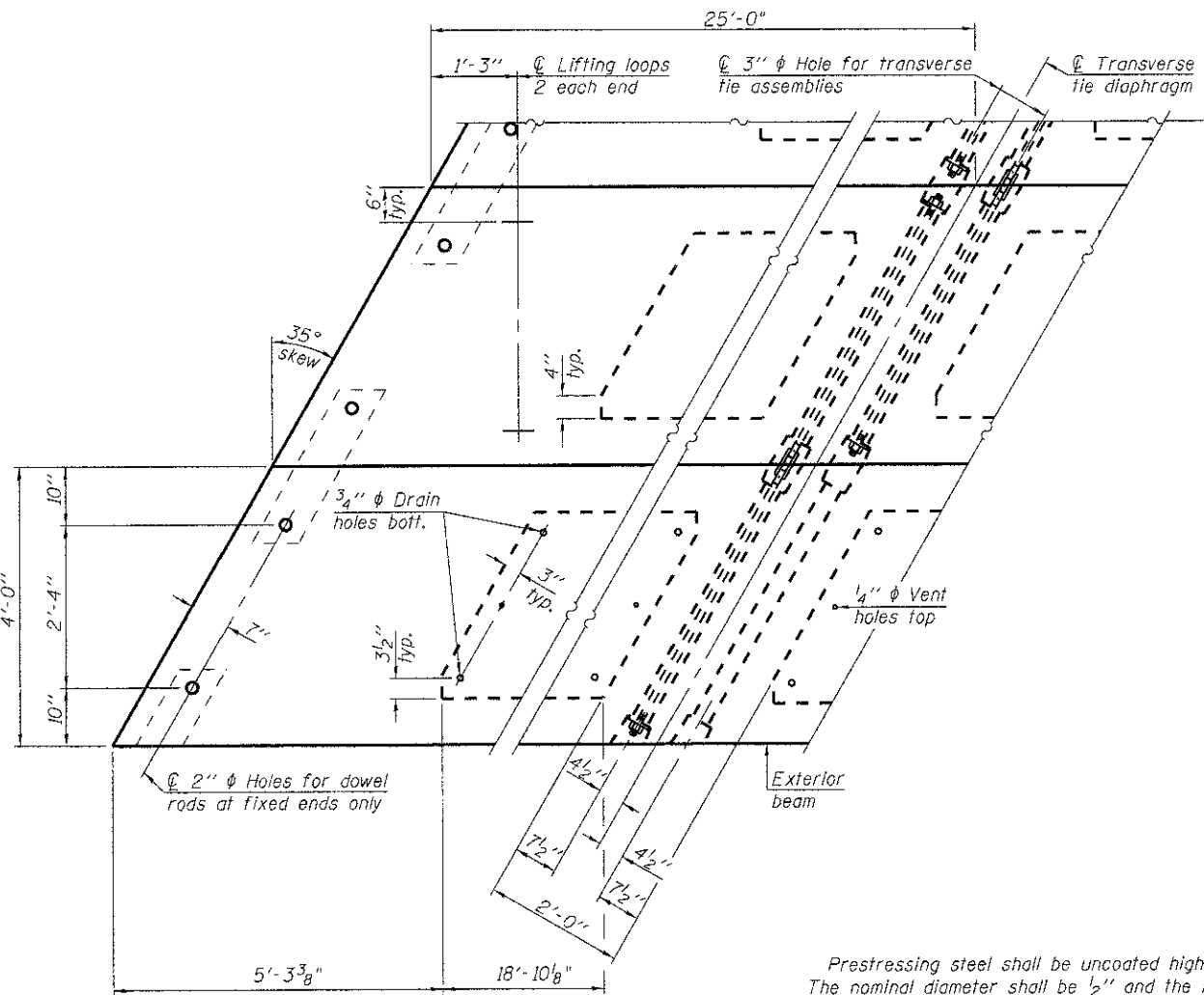
BAR S4(E)



BAR U(E)



BAR U1(E)

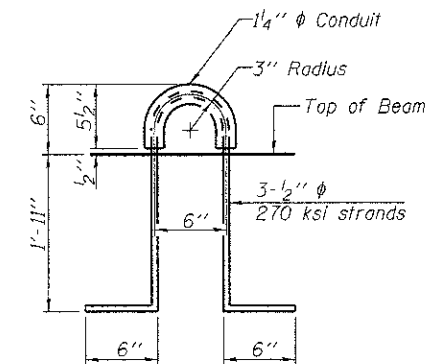


PLAN VIEW

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

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" diameter 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.
- Reinforcement bars shall conform to ASTM A 706, Grade 60.
- 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" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 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.
- Railpost anchor devices (Sht. 9 of 14) to be cast into exterior face of outside beams.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1400
-------------------------------------------------	---------	------

PD-2748-LD

7-1-10

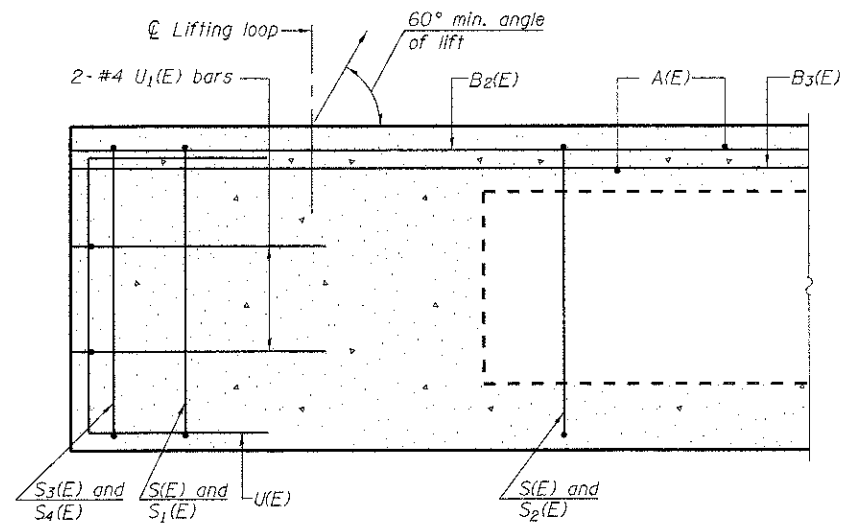
USER NAME =	DESIGNED - KRG	REVISED -
	CHECKED - MJK	REVISED -
PLOT SCALE = NONE	DRAWN - GSJ	REVISED -
PLOT DATE =	CHECKED - MJK	REVISED -

MID-AMERICA ENGINEERING SERVICES
SPRINGFIELD ILLINOIS

27"x48" PPC DECK BEAM DETAILS SPAN 2
STRUCTURE NO 084-3414

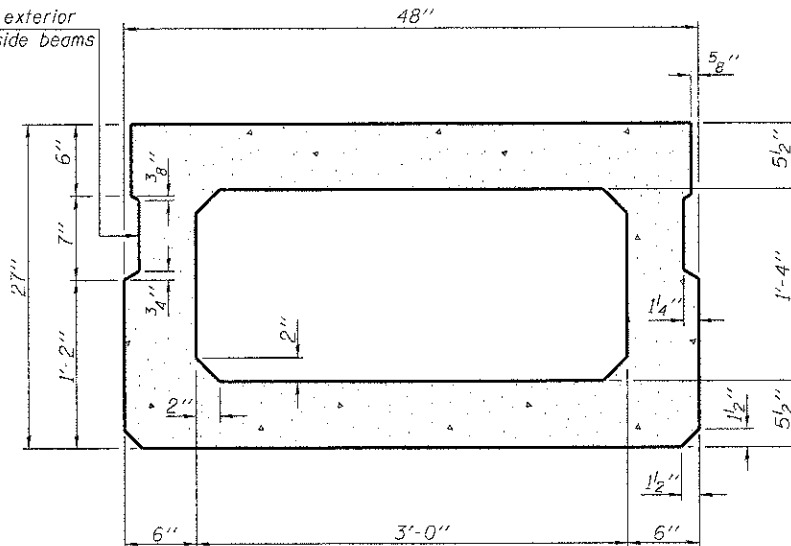
SHEET NO. 7 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
624	08-00085-00-BR	SANGAMON	32	16
STRUCTURE NO. 084-3414		CONTRACT NO. 2585		
STA. 122+30		ILLINOIS FED. AID PROJECT		

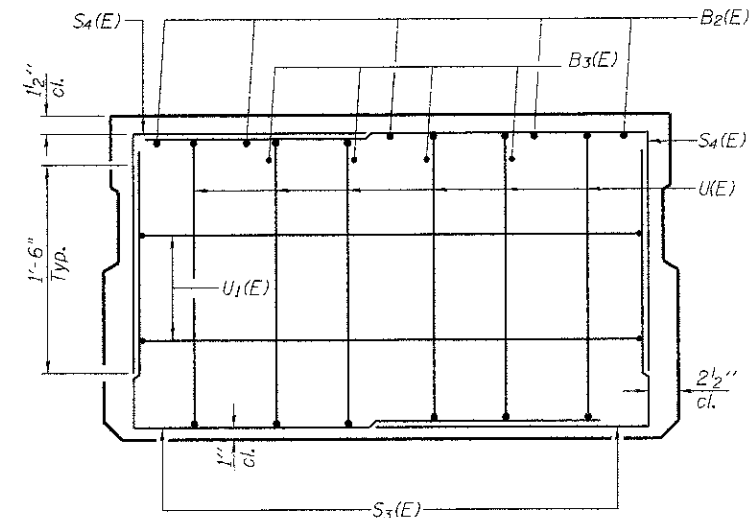


SECTION F1-F1

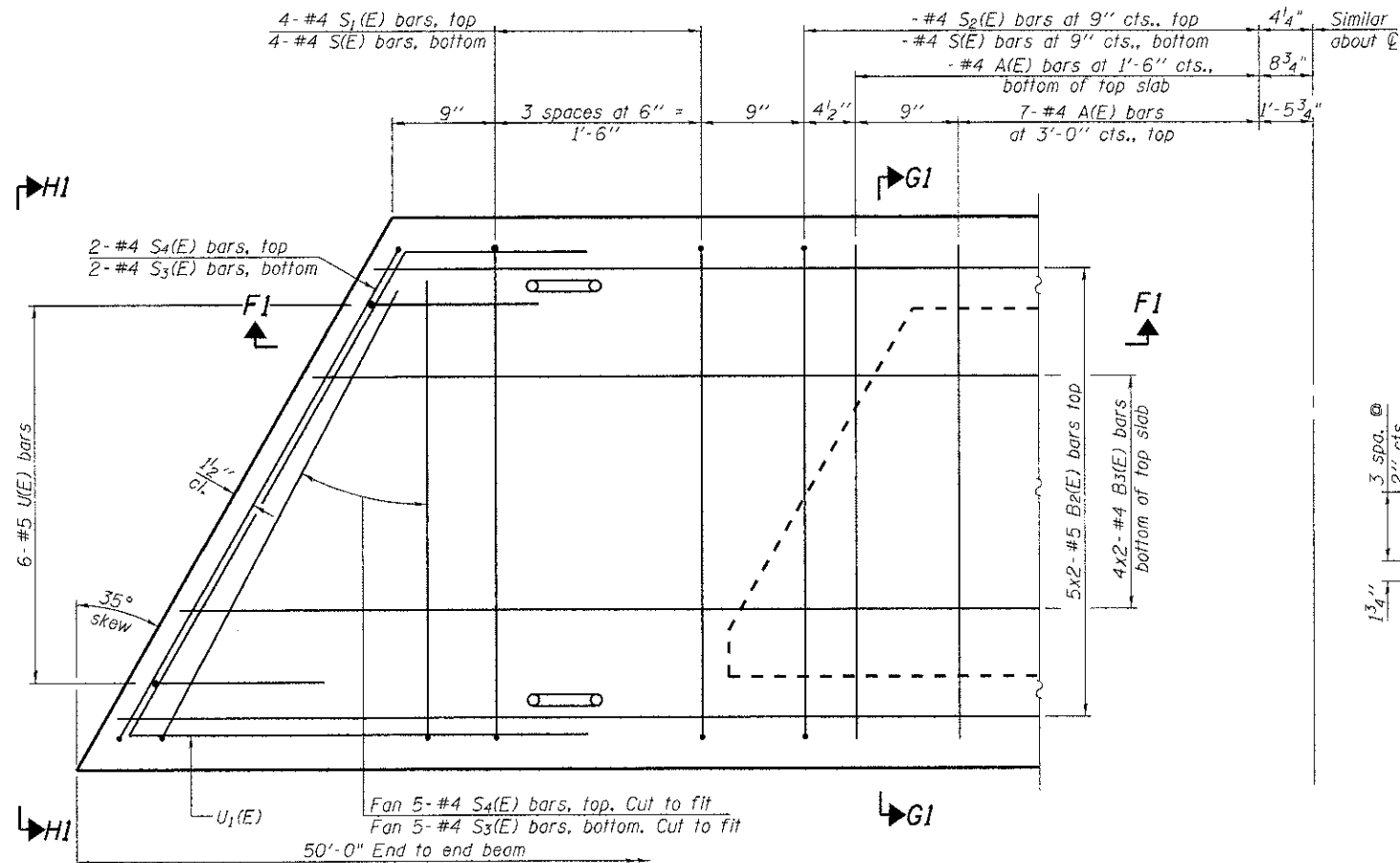
Omit key on exterior face of outside beams



SECTION G1-G1
(Showing dimensions)



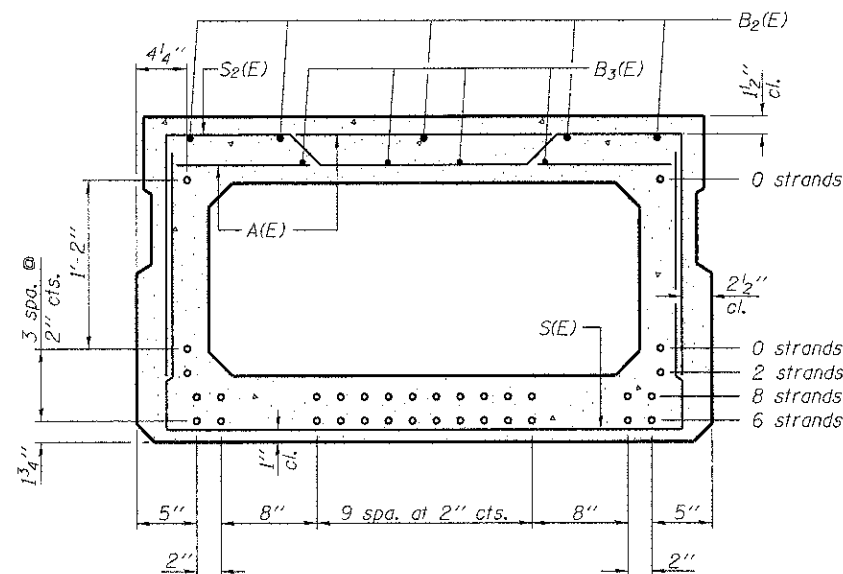
VIEW H1-H1



PLAN VIEW

Note: Spacing of S1(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.

5x2-#5 etc. indicates 5 lines of bars with 2 lengths per line



SECTION G1-G1

(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)	42	#4	3'-7"	—
B2(E)	10	#5	26'-4"	—
B3(E)	8	#4	26'-0"	—
S(E)	64	#4	7'-5"	U
S1(E)	8	#4	6'-11"	U
S2(E)	56	#4	7'-2"	U
S3(E)	14	#4	4'-11"	U
S4(E)	14	#4	5'-0"	U
U(E)	12	#5	4'-6"	U
U1(E)	4	#4	9'-3"	U

Note: See sheet 7 of 14 for additional details and Bill of Material.

MINIMUM BAR LAP

Unless noted otherwise
#4 bar = 2'-0"
#5 bar = 2'-6"

PD-2748-L

7-1-10

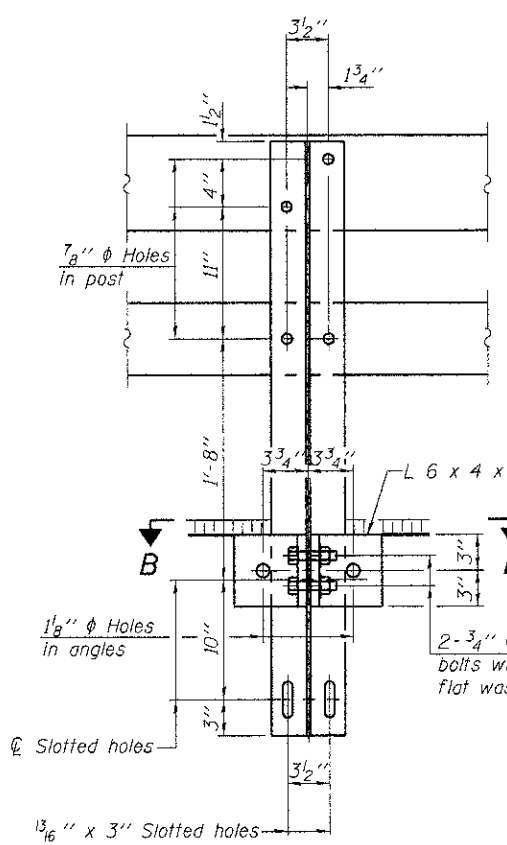
USER NAME =	DESIGNED - KRG	REVISED ---
PLOT SCALE = NONE	CHECKED - MJK	REVISED ---
PLOT DATE =	DRAWN - GJG	REVISED ---
	CHECKED - MJK	REVISED ---

MID-AMERICA ENGINEERING SERVICES
SPRINGFIELD ILLINOIS

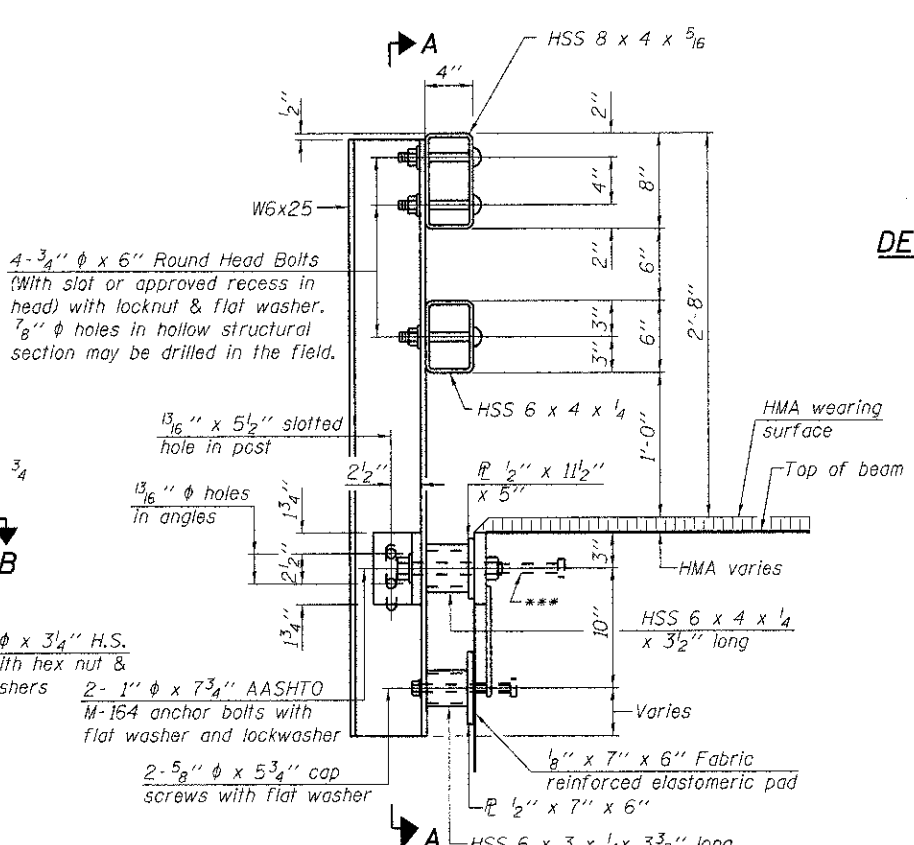
27" x 48" PPC DECK BEAM SPAN 2
STRUCTURE NO.084-3414

SHEET NO. 8 OF 14 SHEETS

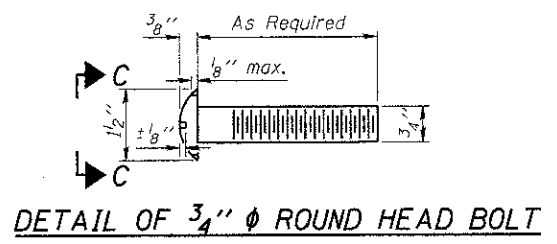
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
624	08-00085-00-BR	SANGAMON	32	17
STRUCTURE NO. 084-3414		CONTRACT NO. 93585		
STA. 122+30		ILLINOIS FED. AID PROJECT		



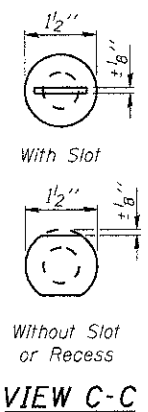
SECTION A-A



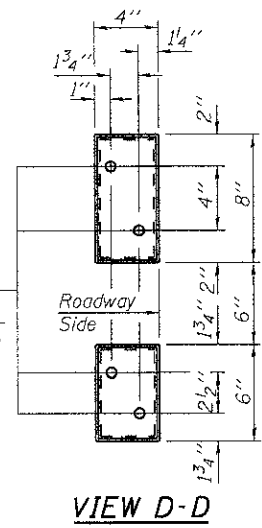
SECTION AT RAIL POST



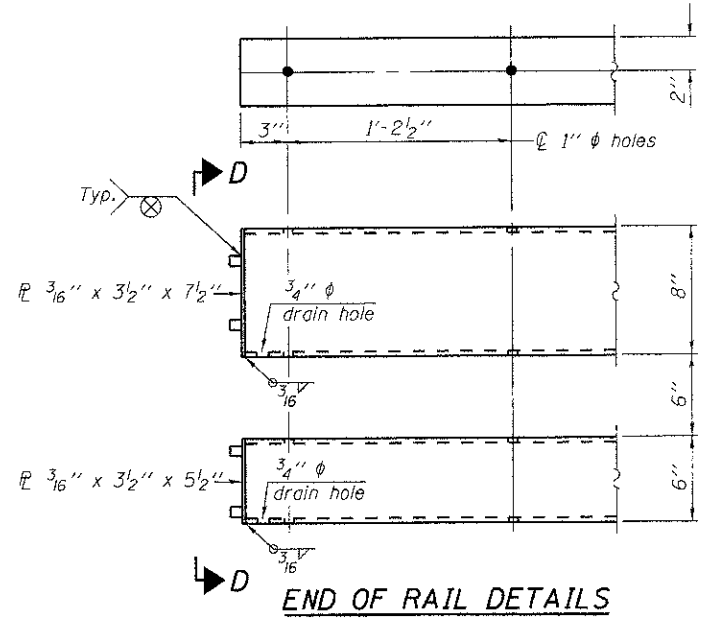
DETAIL OF 3/4" Ø ROUND HEAD BOLT



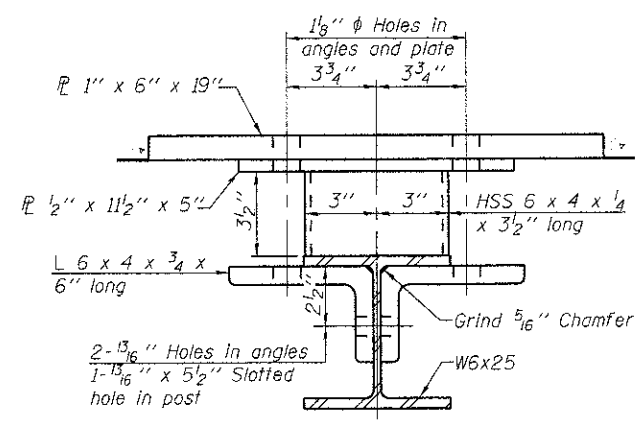
VIEW C-C



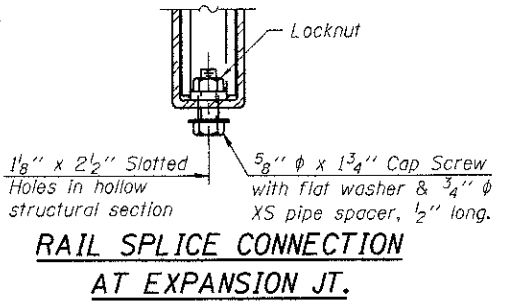
VIEW D-D



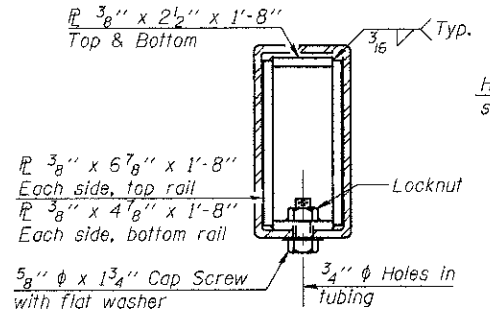
END OF RAIL DETAILS



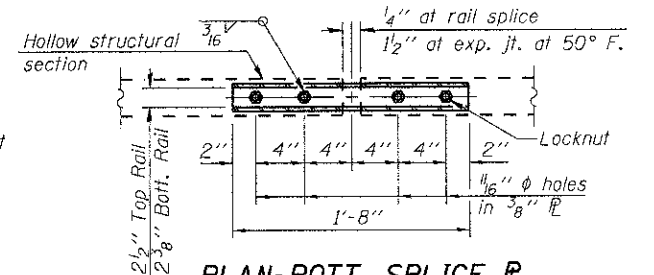
SECTION B-B



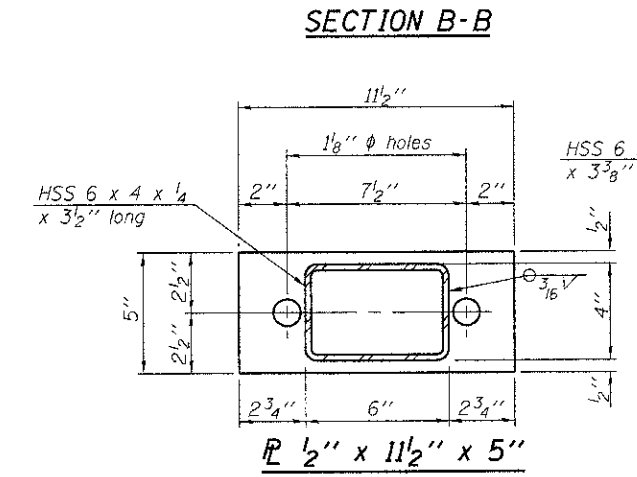
RAIL SPLICE CONNECTION AT EXPANSION JT.



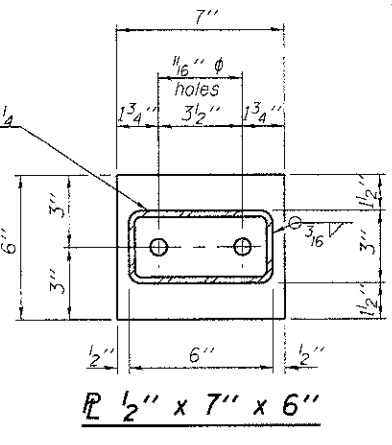
SECTION AT RAIL SPLICE



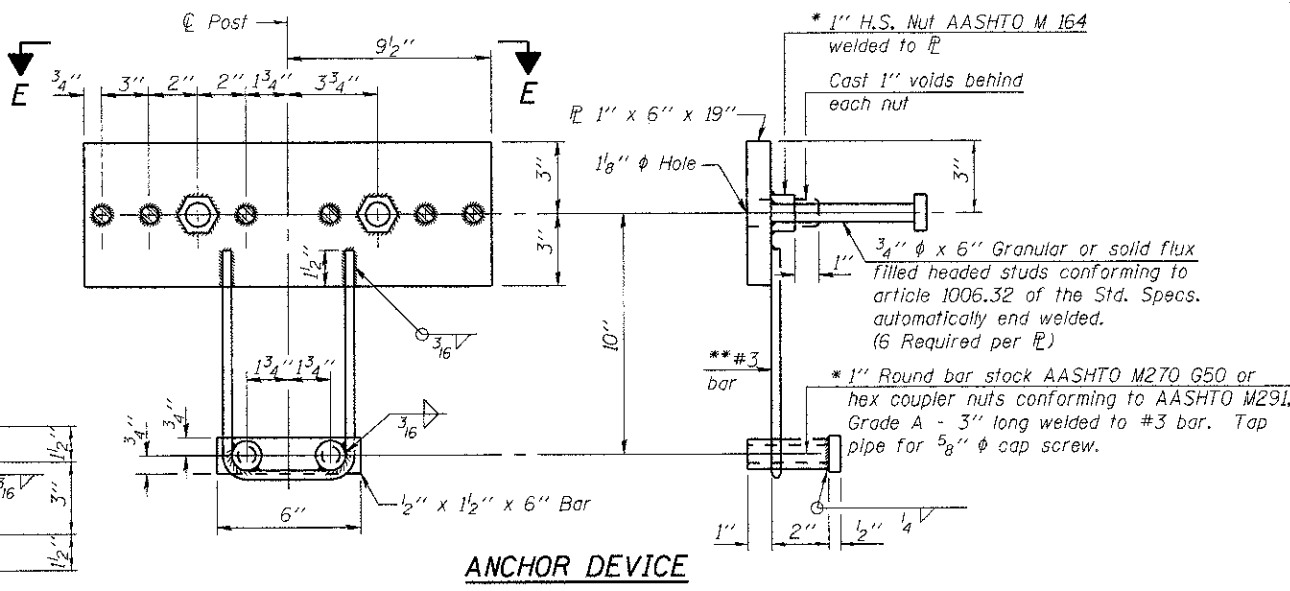
PLAN-BOTT. SPLICE TYPICAL



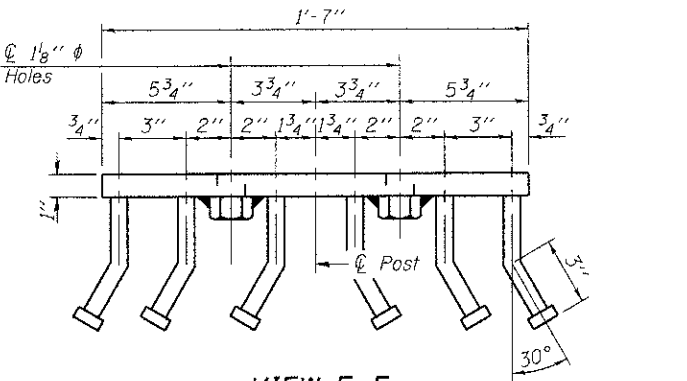
SECTION B-B



SECTION AT RAIL SPLICE



ANCHOR DEVICE



VIEW E-E

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 *** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	275

R-34HMAWS

7-1-10 (6'-3" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)

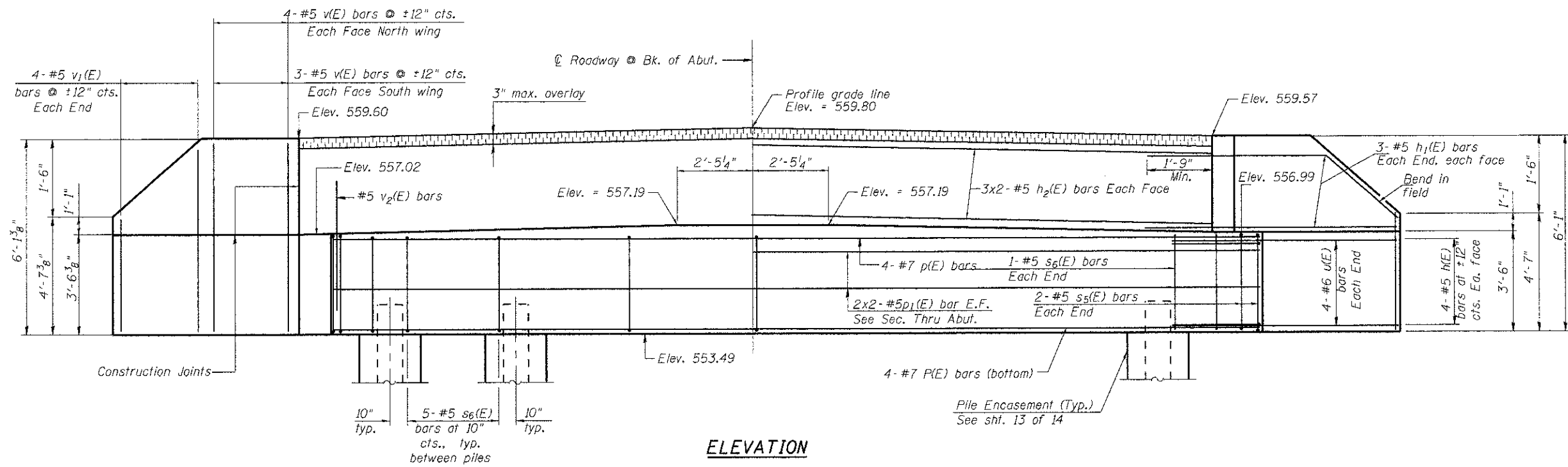
*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

**MID-AMERICA ENGINEERING SERVICES
 SPRINGFIELD ILLINOIS**

**STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE
 STRUCTURE NO 084-3414**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
624	08-00085-00-BR	SANGAMON	32	18
STRUCTURE NO. 084-3414			CONTRACT NO. 93585	
STA. 122+30 ILLINOIS FED. AID PROJECT				

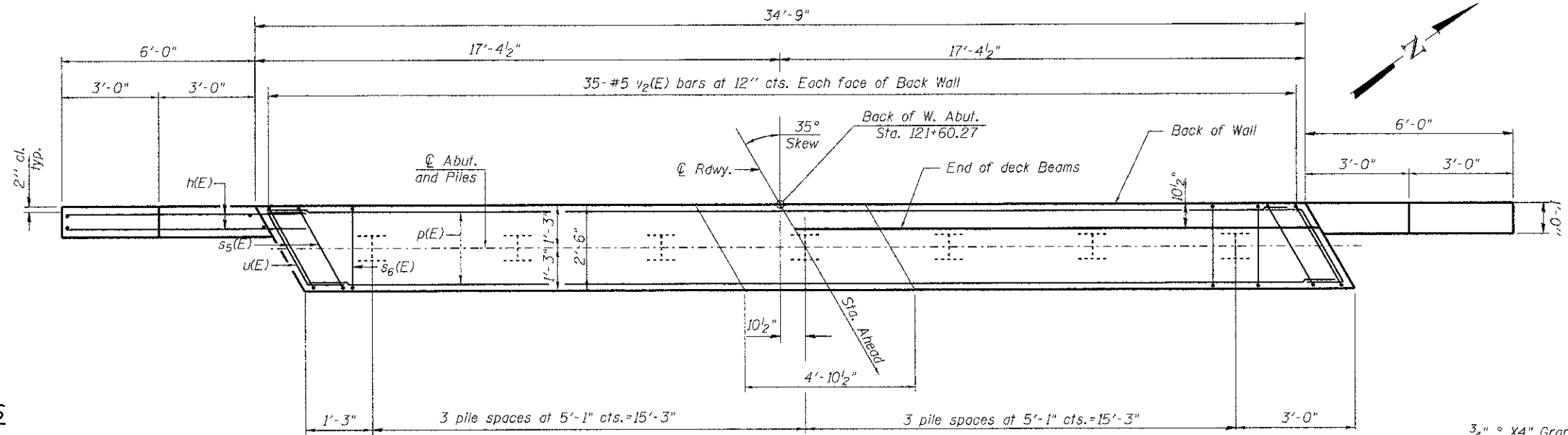


ELEVATION

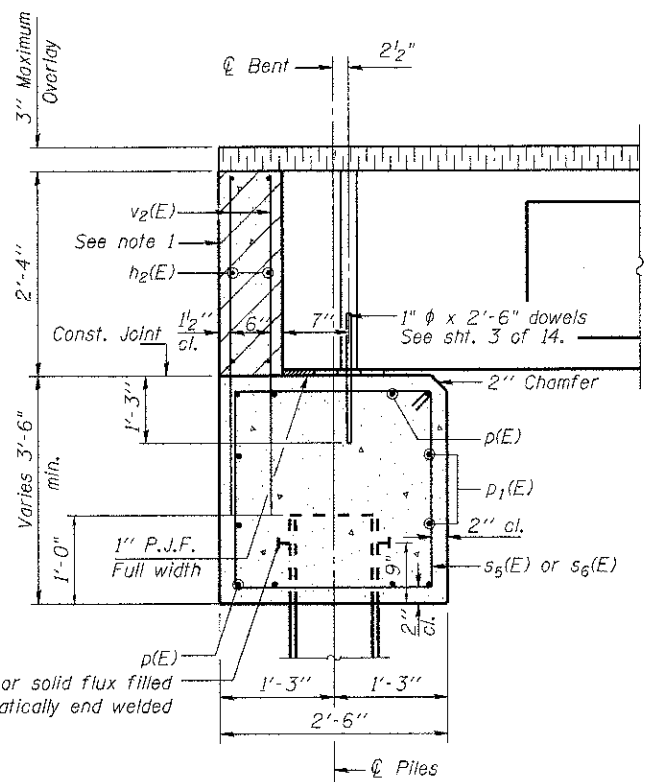
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h (E)	16	#5	8'-0"	—
h1 (E)	12	#5	8'-3"	—
h2 (E)	12	#5	18'-3"	—
p (E)	8	#7	34'-5"	—
p1 (E)	8	#5	18'-6"	—
s5 (E)	4	#5	12'-6"	□
s6 (E)	32	#5	11'-8"	□
u (E)	8	#6	11'-6"	□
v (E)	14	#5	5'-9"	—
v1 (E)	8	#5	10'-0"	—
v2 (E)	70	#5	3'-10"	—
Concrete Structures		Cu .Yd.	16.9	
Reinforcement Bars, Epoxycoated		Pound	2210	
Furnishing Steel Piles HP12x74		Foot	210	
Test pile Steel HP12x74		Ea.	1	
Stud Shear Connectors		Ea.	14	
Concrete encasement		Cu .Yd.	2.4	

MIN. BAR LAP
(unless notes otherwise)
#5 Bars = 1'-8"



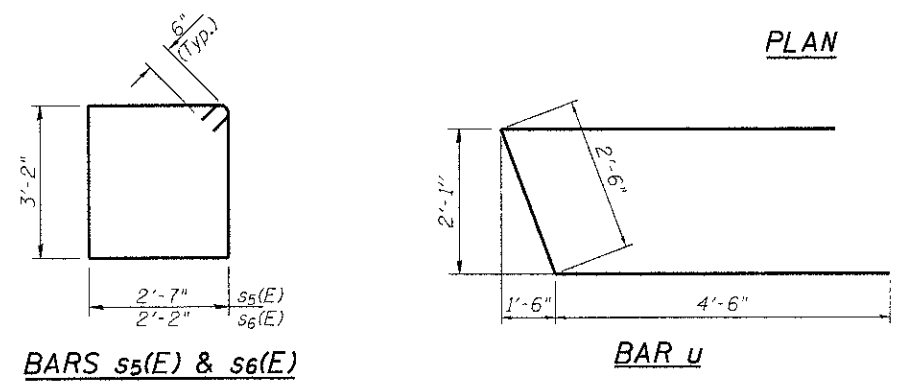
PLAN



SECTION THRU ABUTMENT
(At Right Angles)

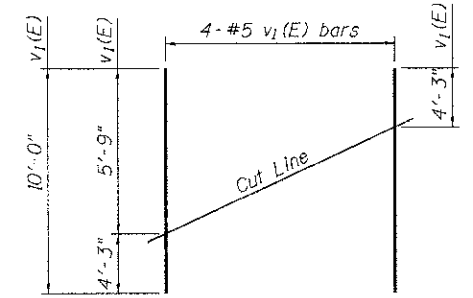
NOTES

The Backwall and the portion of the Wingwalls above the construction joint shall be cast against the in-place beam.
Space reinforcement in cap to miss dowel rods.
For pile details and concrete encasement see sheet 13 of 14.
Bars indicated thus 3x2-#5 etc. Indicate 3 bars @ 2lengths per line



BARS s5(E) & s6(E)

BAR U



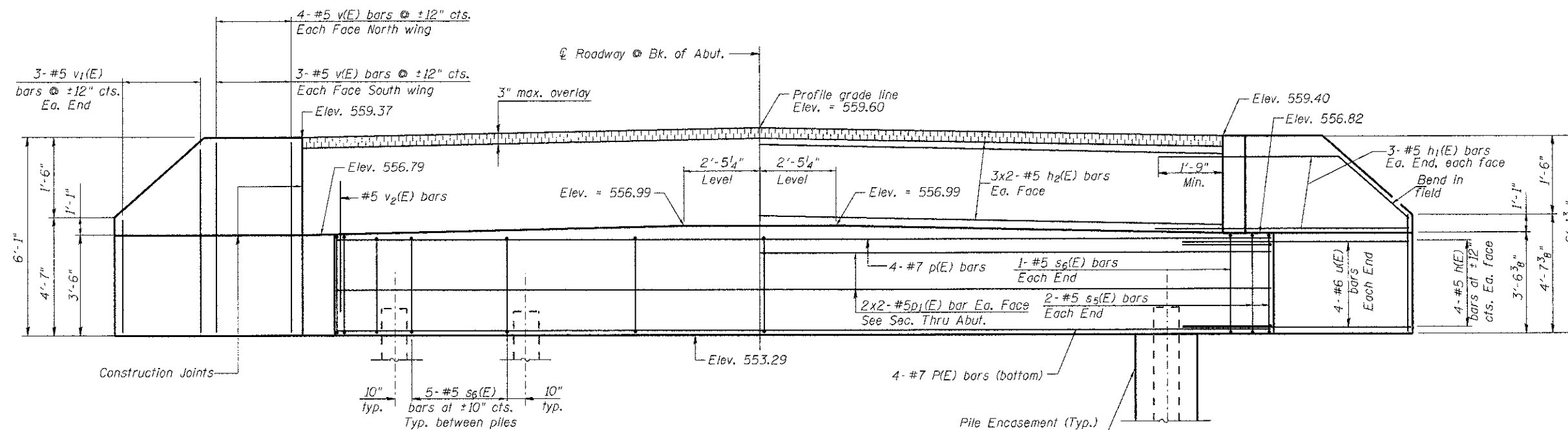
FIELD CUTTING DIAGRAM

Order v1(E) full length. Cut as shown and use remainder of bars in opposite face.

PILE DATA

Type & Size: Steel-HP 12x74
Nominal Required Bearing: 589 Kips
Factored Resistance Available = 185 Kips
Estimated Pile length = 35'
No. of production piles = 6
Test pile = 1

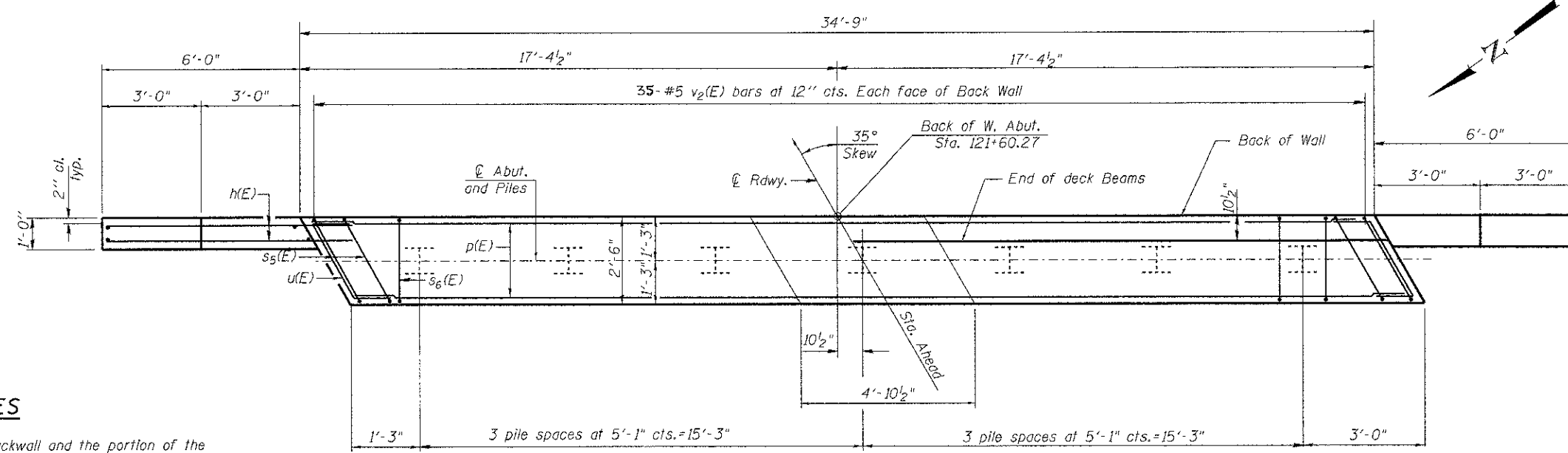
3/4" x 4" Granular or solid flux filled headed studs automatically end welded to flange 2 studs.



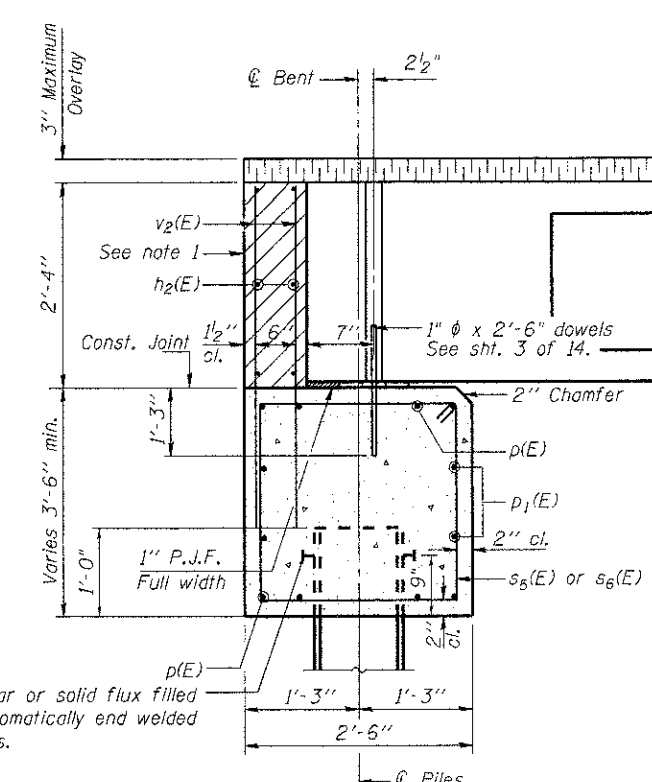
ELEVATION

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h (E)	16	#5	8'-0"	—
h1(E)	12	#5	8'-3"	—
h2(E)	12	#5	18'-3"	—
p (E)	8	#7	34'-5"	—
p1(E)	8	#5	18'-3"	—
s5(E)	4	#5	12'-6"	□
s6(E)	32	#5	11'-8"	□
u (E)	8	#6	11'-6"	□
v (E)	14	#5	5'-9"	—
v1(E)	8	#5	10'-0"	—
v2(E)	70	#5	3'-10"	—
Concrete Structures		Cu .Yd.	16.9	
Reinforcement Bars, Epoxycoated		Per.	2210	
Furnishing Steel Piles HP12x74		Foot	259	
Stud Shear Connectors		Ea.	14	
Concrete encasement		Cu .Yd.	2.4	



PLAN



SECTION THRU ABUTMENT
(At Right Angles)

3/4" x 4" Granular or solid flux filled headed studs automatically end welded to flange 2 studs.

PILE DATA

Type & Size: Steel-HP 12x74
 Nominal Required Bearing: 589 Kips
 Factored Resistance Available = 185 Kips
 Estimated Pile length = 37'
 No. of production piles = 7

NOTES

The Backwall and the portion of the Wingwalls above the construction joint shall be cast against the in-place beam.

Space reinforcement in cap to miss dowel rods.

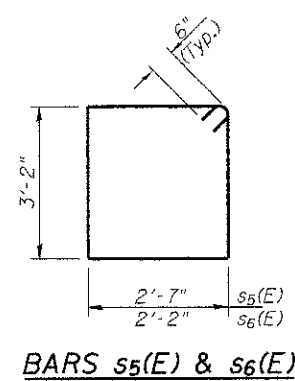
For pile details and concrete encasement see sheet 13 of 14.

Bars indicated thus 3x2-#5 etc. indicate 3 bars @ 2lengths per line

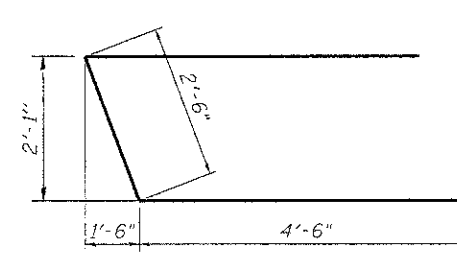
MIN. BAR LAP

(unless notes otherwise)

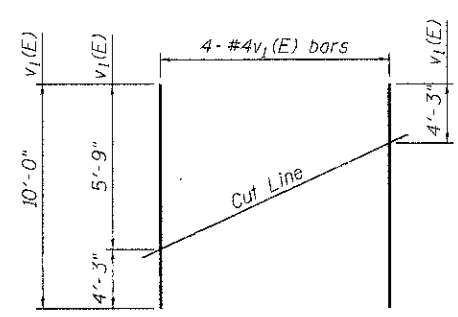
#5 Bars = 1'-8"



BARS s5(E) & s6(E)



BAR u



FIELD CUTTING DIAGRAM

Order v1(E) full length. Cut as shown and use remainder of bars in opposite face.

MID-AMERICA ENGINEERING SERVICES
 SPRINGFIELD ILLINOIS

EAST ABUTMENT
 STRUCTURE NO 084-3414

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
624	08-00085-00-BR	SANGAMON	32	20
STRUCTURE NO. 084-3414			CONTRACT NO. 03585	
STA. 122+30			ILLINOIS FED. AID PROJECT	

SHEET NO. 11 OF 14 SHEETS

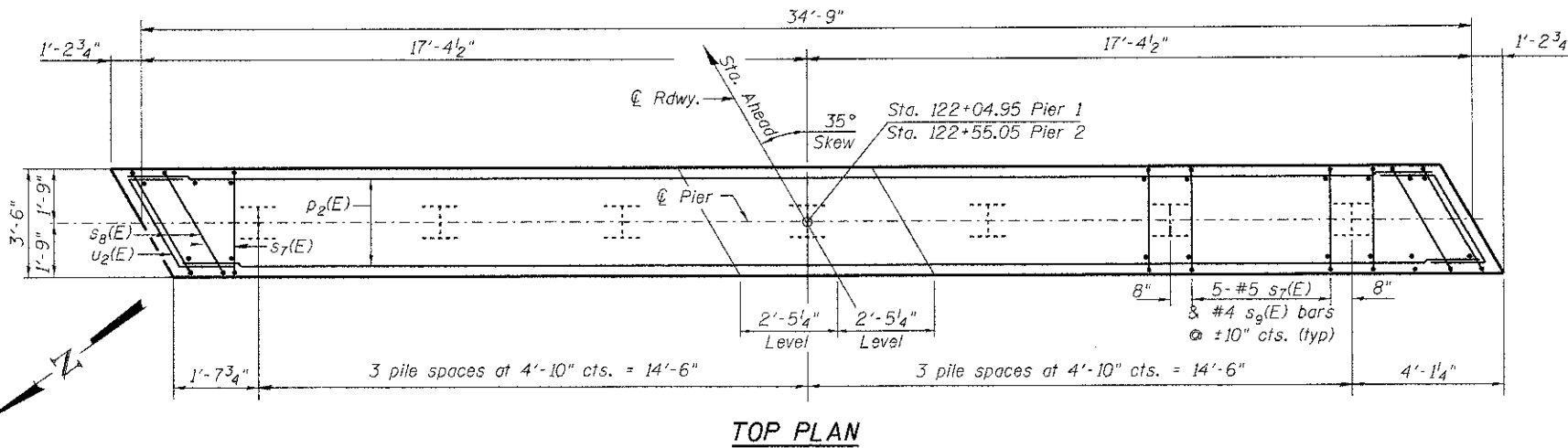
Notes:
For details of piles, see sheet 13 of 14.
Space reinforcement in cap to miss dowel rods.

PILE DATA

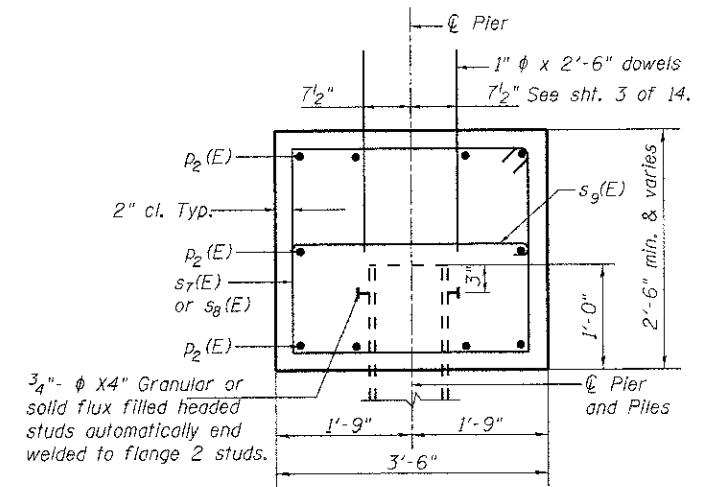
Type & Size: Steel-HP 12x74
Nominal Required Bearing: 589 Kips
Factored resistance available = 253 Kips
Estimated Pile length = 37' Pier 1; 37' Pier 2
No. of production piles = 13 @ piers 1 & 2
No. of Test Piles = 1 @ pier 2

MIN BAR LAP

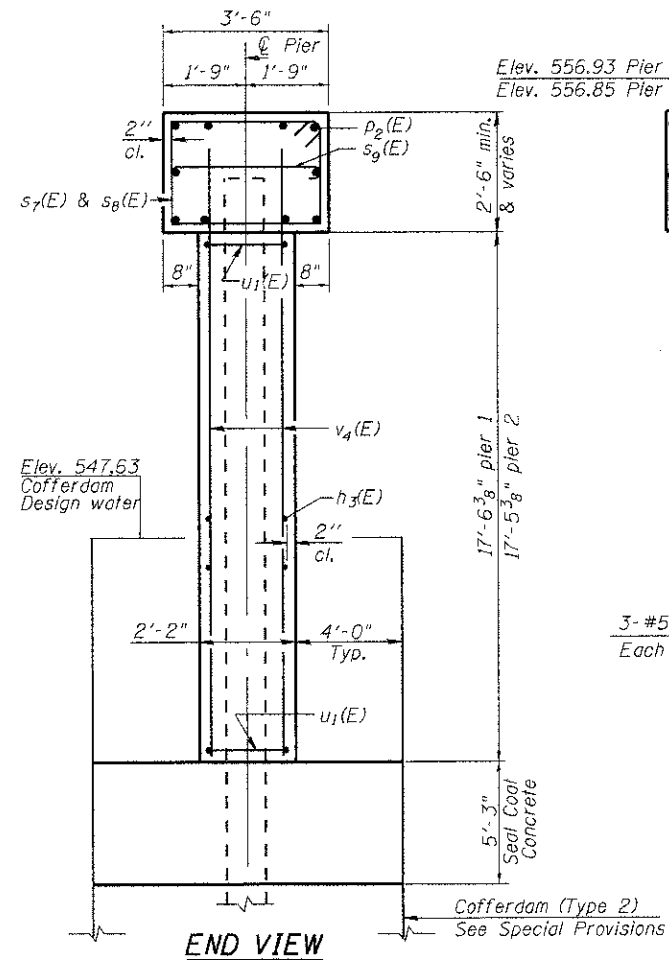
5 Bar = 1'-8"



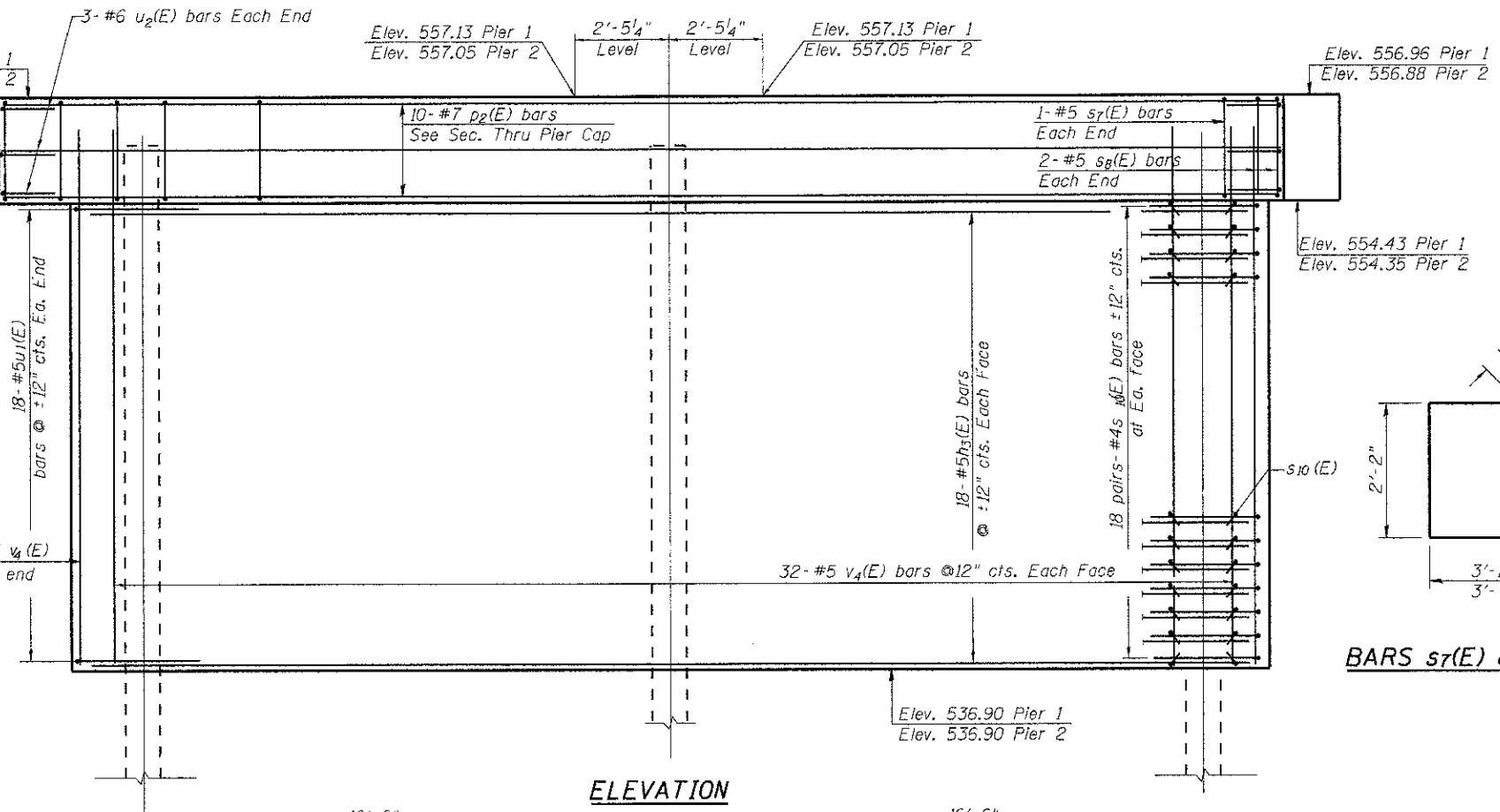
TOP PLAN



SECTION THRU PIER CAP

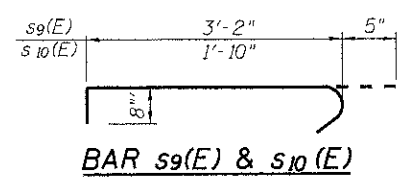
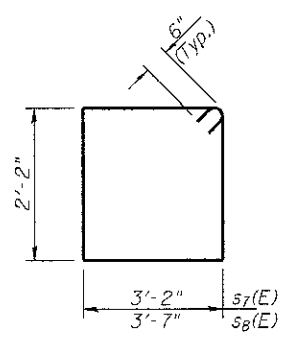


END VIEW

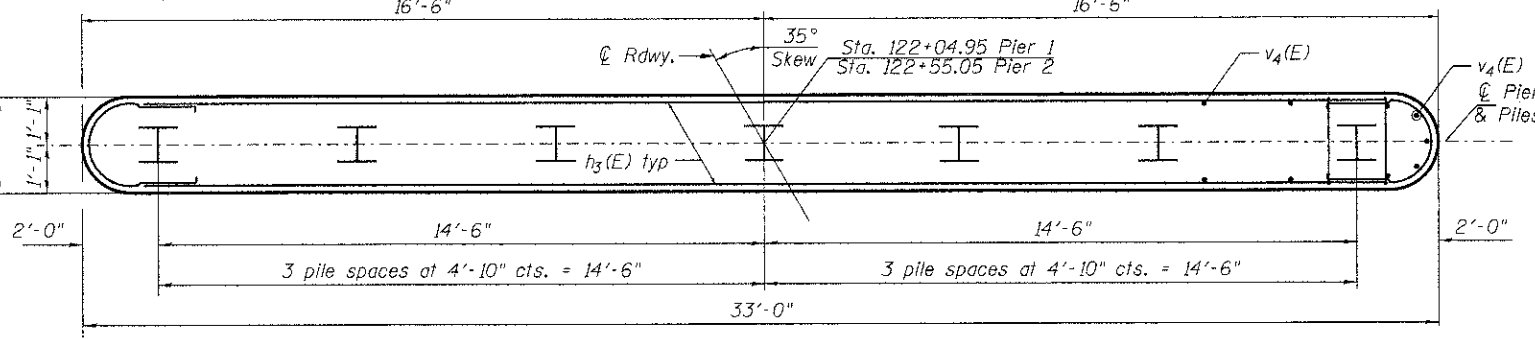


ELEVATION

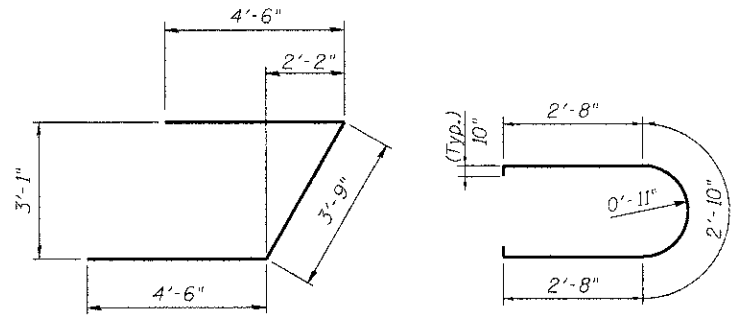
BARS s7(E) & s8(E)



BAR s9(E) & s10(E)



PILE LOCATION PLAN



BAR u2(E)

BARS u1(E)

**TWO PIERS
BILL OF MATERIAL**

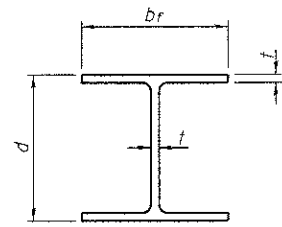
Bar	No.	Size	Length	Shape
h3(E)	72	#5	30'-0"	—
p2(E)	20	#7	34'-5"	—
s7(E)	64	#5	11'-8"	□
s8(E)	8	#5	12'-6"	□
s9(E)	64	#4	4'-3"	└─┘
s10(E)	504	#4	2'-11"	└─┘
u1(E)	72	#5	9'-10"	└─┘
u2(E)	12	#6	12'-9"	└─┘
v4(E)	140	#5	19'-8"	—
Concrete Structures		Cu. Yd.	112.4	
Reinforcement Bars, Epoxy Coated		Pound	9550	
Furnishing Steel Piles HP12x74		Foot	481	
Test pile Steel HP12x74		Ea.	1	
Stud Shear Connectors		Ea.	28	
Cofferdam Excavation		Cu. Yd.	240	
Cofferdam (Type 2) Location 1 (Pier 1)		Each	1	
Cofferdam (Type 2) Location 2 (Pier 2)		Each	1	
Seal Coat Concrete		Cu. Yd.	163	

USER NAME =	DESIGNED - KRG	REVISED ---
PLOT SCALE = NONE	CHECKED - MJK	REVISED ---
PLOT DATE =	DRAWN - GSJ	REVISED ---
	CHECKED - MJK	REVISED ---

**MID-AMERICA ENGINEERING SERVICES
SPRINGFIELD ILLINOIS**

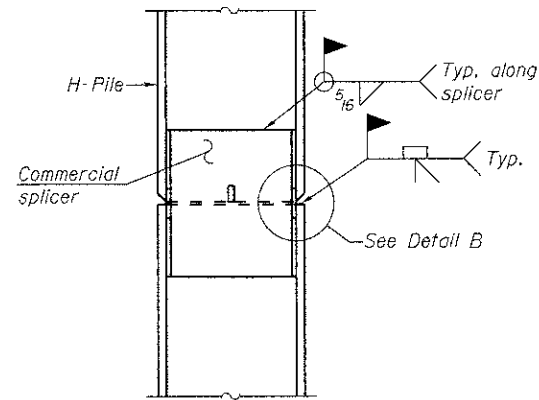
**PIERS 1 AND 2
STRUCTURE NO 084-3414**
SHEET NO. 12 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
624	08-00085-00-BR	SANGAMON	32	21
STRUCTURE NO. 084-3414		CONTRACT NO. 93-58-5		
STA. 122+30		ILLINOIS FED. AID PROJECT		

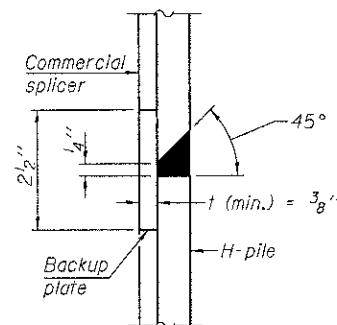


STEEL PILE TABLE

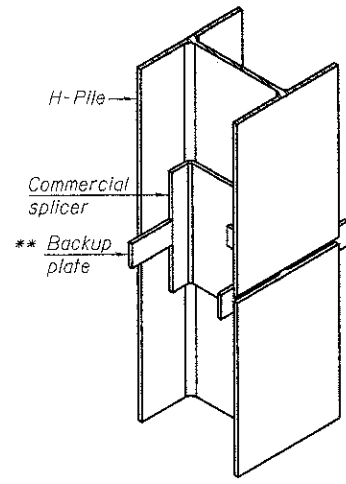
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/2"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 5/8"	7/16"	18"



ELEVATION

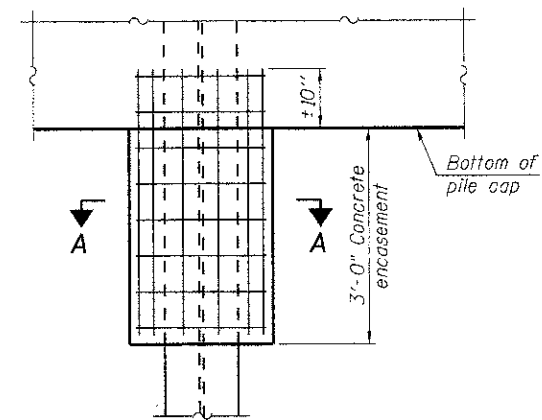


DETAIL "B"



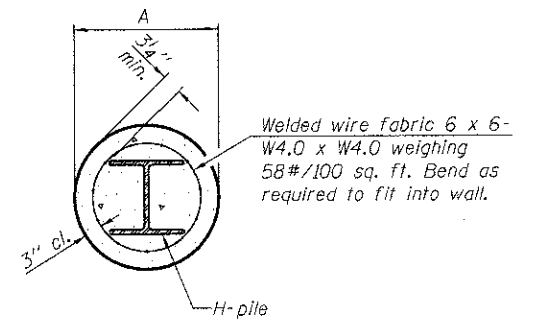
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



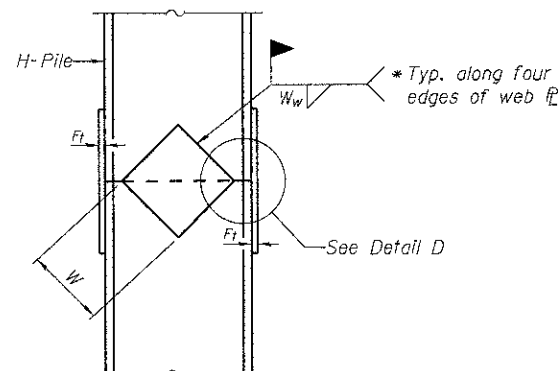
ELEVATION

PILE ENCASEMENT
At abutments only

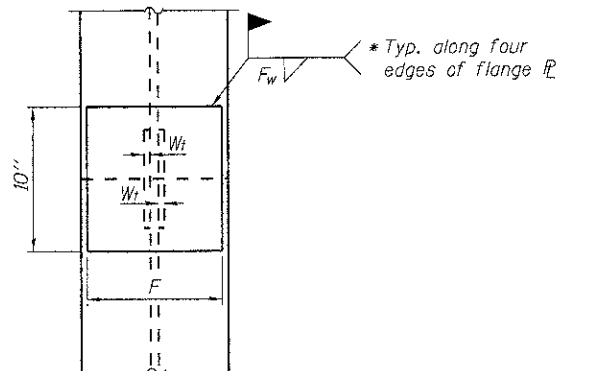


SECTION A-A

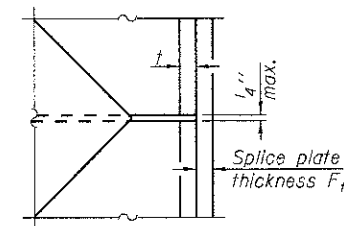
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



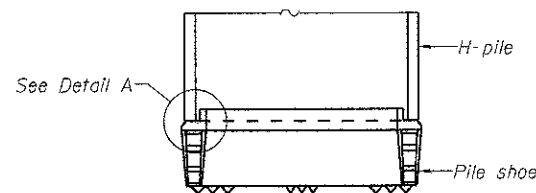
END VIEW



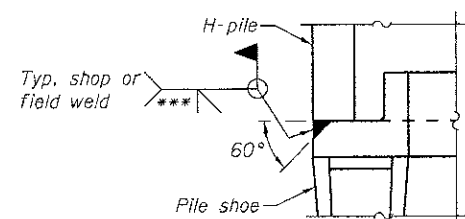
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

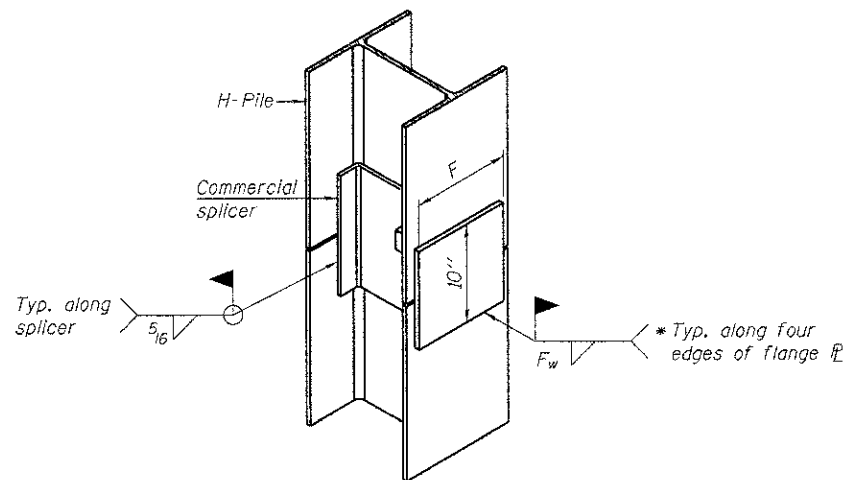


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP

1-27-12

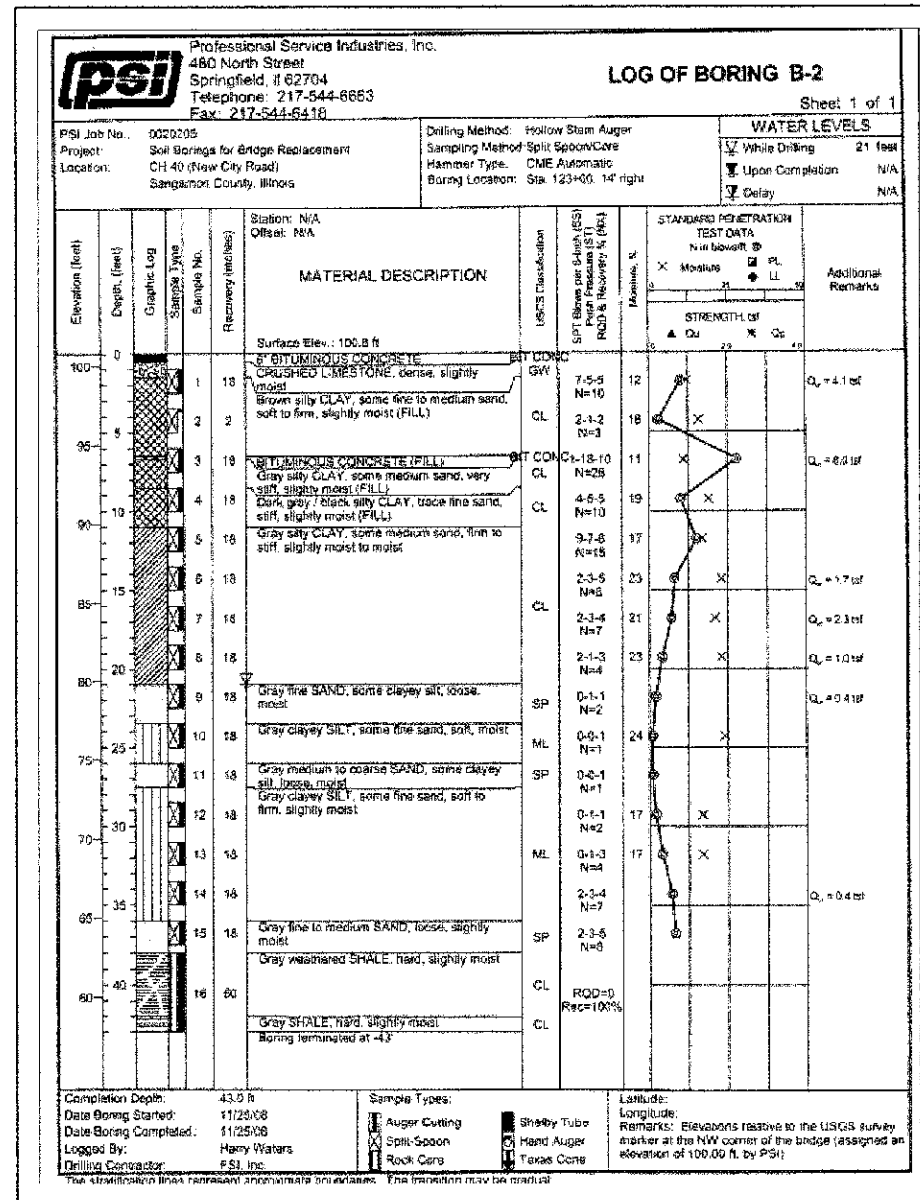
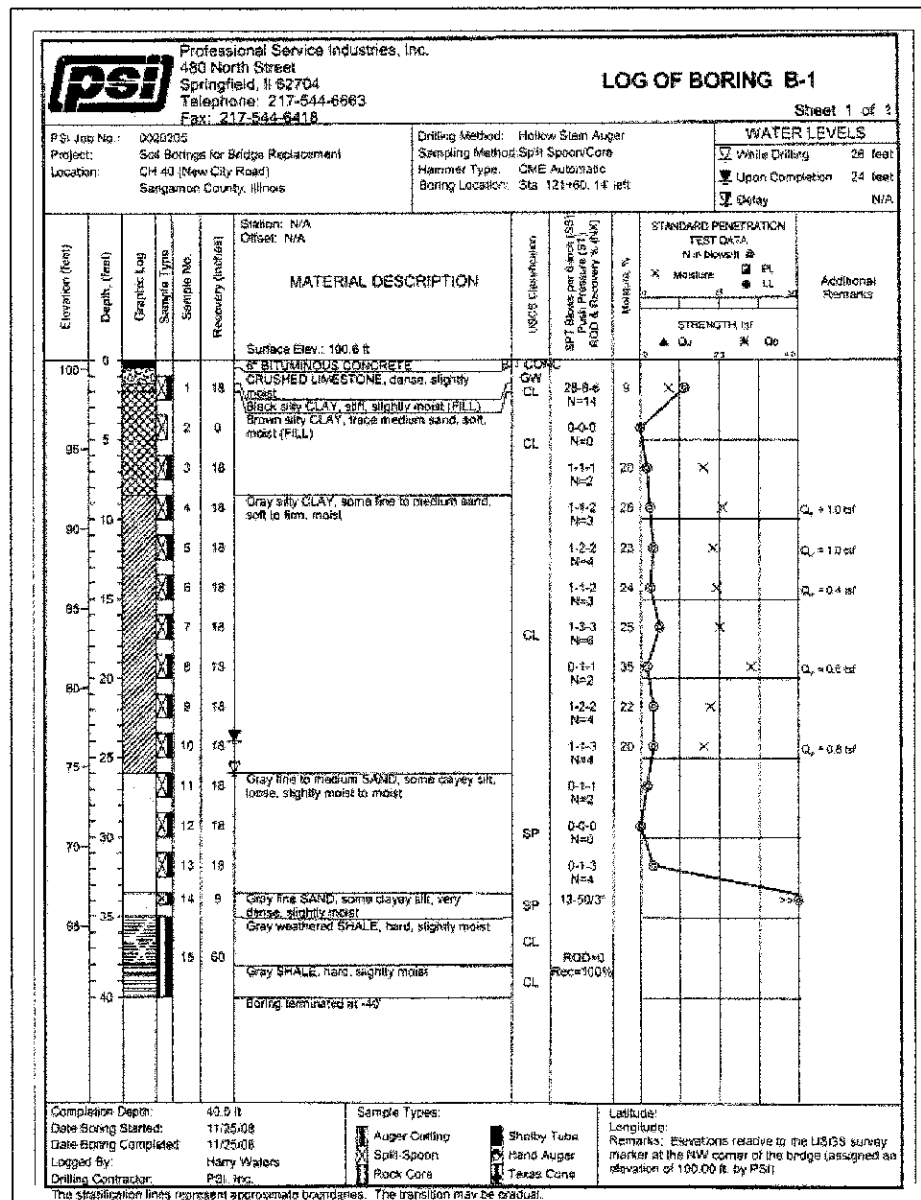
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	CHECKED - MJK	REVISED -
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PLDT DATE =	CHECKED - MJK	REVISED -

MID-AMERICA ENGINEERING SERVICES
SPRINGFIELD ILLINOIS

HP PILE DETAILS
STRUCTURE NO 084-3414

SHEET NO. 13 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
624	08-00085-00-BR	SANGAMON	32	22
STRUCTURE NO. 084-3414			CONTRACT NO. 084-585	
STA. 122+30			ILLINOIS FED. AID PROJECT	



KEY TO SYMBOLS

- Asphalt
- Aggregate Base
- Fill (made ground)
- Rubble Fill - Concrete, Brick, etc
- USCS Low Plasticity Clay
- USCS Poorly-graded Sand
- USCS Silt
- Weathered Shale
- Shale

- HSA = Hollow Stem Auger
- CFA = Continuous Flight Auger
- SPT = Standard Penetration Test
- DCP = Dynamic Cone Penetrometer
- SS = Split-spoon Sampler
- ST = Shelby Tube Sampler
- RC = Rock Core
- DD = Dry Density
- LL = Liquid Limit
- PL = Plastic Limit
- Q_u = Unconfined Compressive Strength
- Q_p = Pocket Penetrometer
- RQD = Rock Quality Designation
- REC'D = Rock Core Recovery Percentage
- PID = Photo Ionic Detector (ppm)
- MR* = Unable to determine depth of water due to mud rotary drilling methods

The borings were advanced into the ground using hollow stem augers. At regular intervals throughout the boring depths, soil samples were obtained with either a 1.4-inch I.D., 2.0-inch O.D., split-spoon sampler or a 3-inch diameter Shelby tube. The split-spoon sampler was first seated 6-inches to penetrate any loose cuttings and then driven an additional foot where possible with blows of a 140 pound hammer falling 30-inches. The number of hammer blows required to drive the sampler each 6-inch increment is recorded in the field. The penetration resistance "N-value" is redesignated as the number of hammer blows required to drive the sampler the final foot and, when properly evaluated, is an index to cohesion for clays and relative density for sands. The split-spoon sampling procedures used during this exploration are in general accordance with ASTM Designation D 1586.

Relatively undisturbed Shelby tube samples were obtained by forcing a section of 3-inch diameter steel tubing into the soil at the desired sampling levels. This sampling procedure was in general accordance with ASTM Designation D 1587. Each tube, together with the encased soil, was carefully removed from the ground, sealed and transported to the laboratory for testing.

Professional Service Industries, Inc.
480 North Street
Springfield, IL 62704
Telephone: 217-544-6663
Fax: 217-544-6418

PSI Job No.: 0020205

Project: Soil Borings for Bridge Replacement

Location: CH 40 (New City Road)
Sangamon County, Illinois

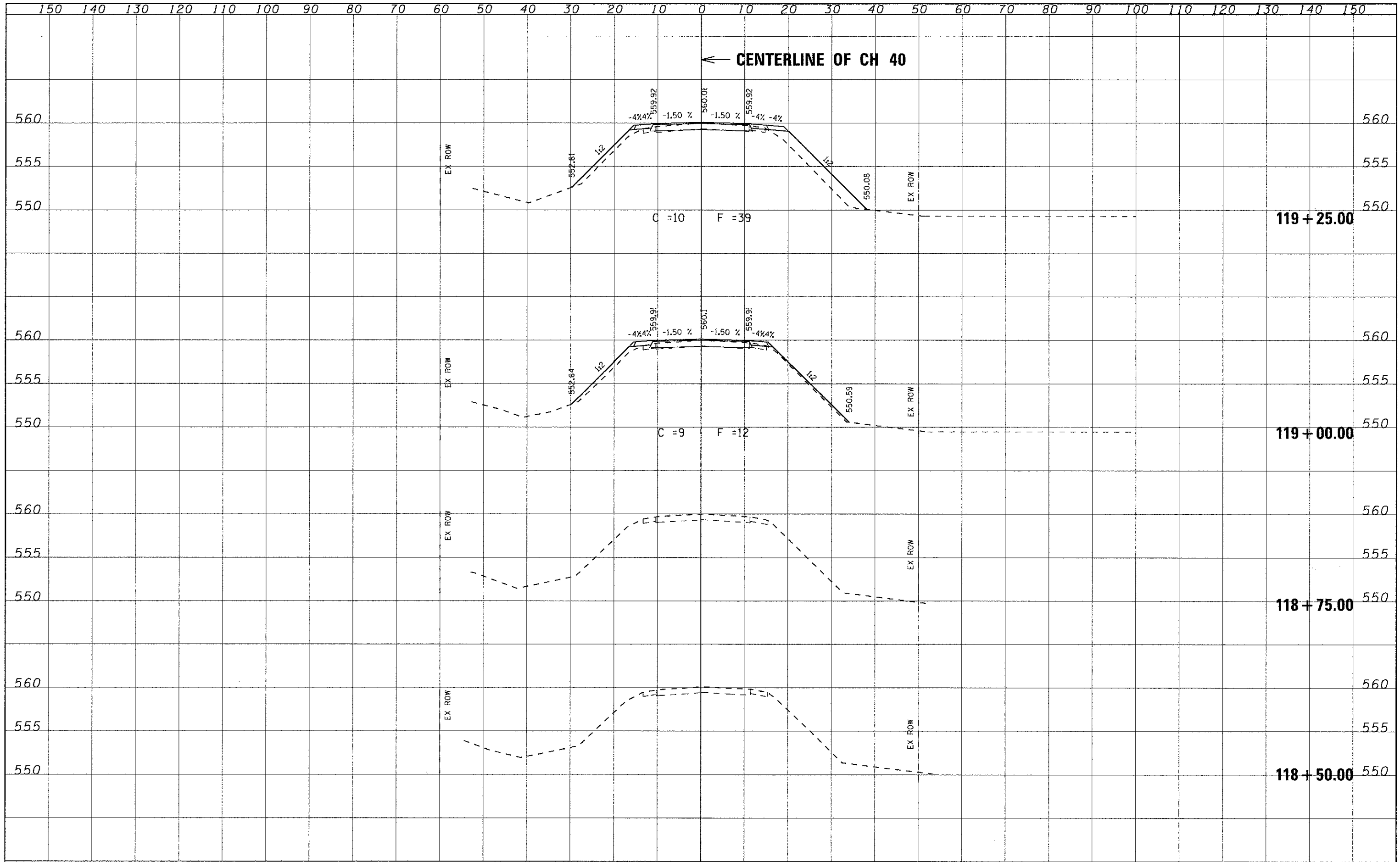
Note:
Elevation 100.00 on boring logs = 560.14 on plans.

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	CHECKED - MJK	REVISED -				STA. 122+30 ILLINOIS FED. AID PROJECT					

SHEET NO. 14 OF 14 SHEETS

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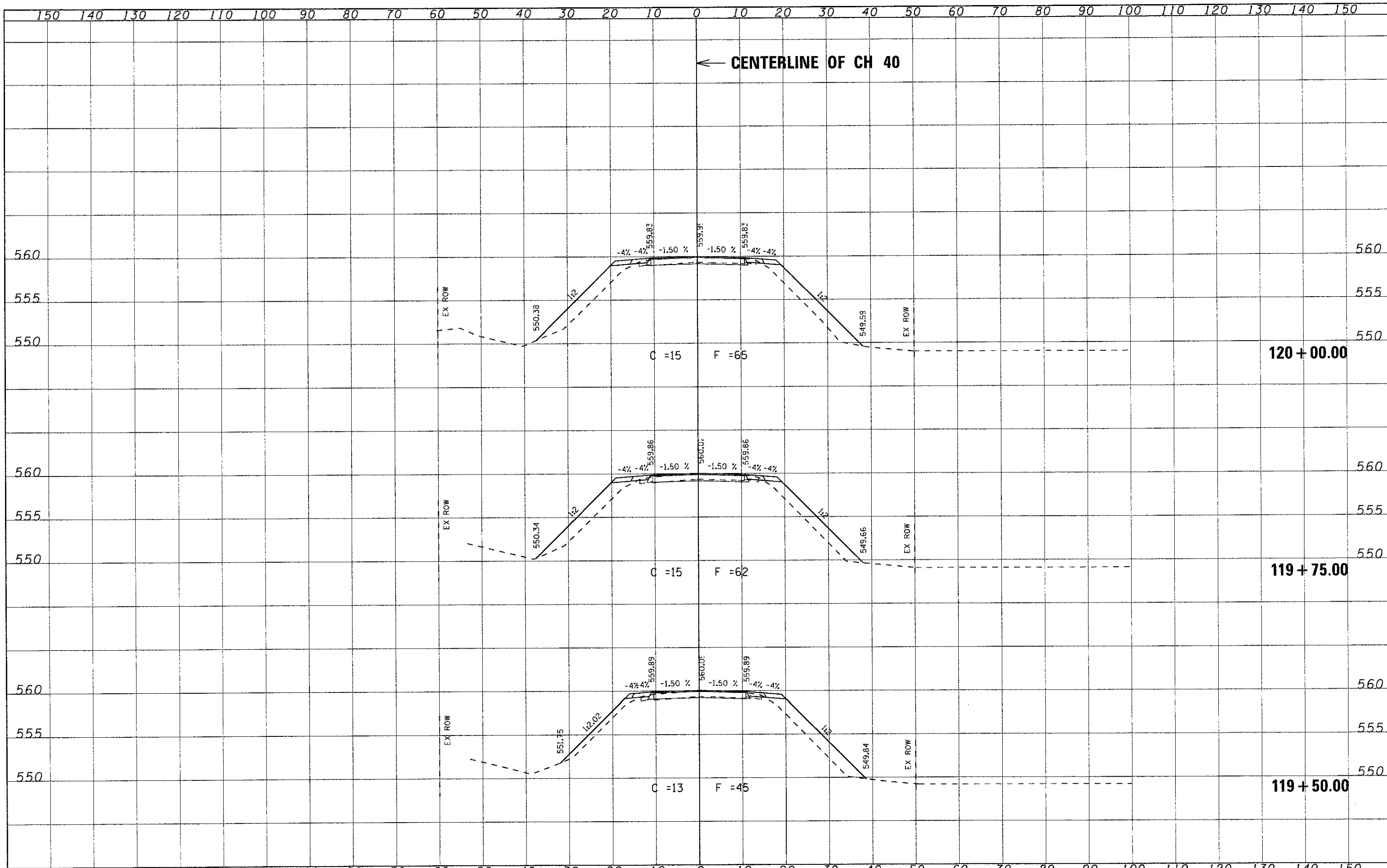
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SURVEYED		
TEMPERATURE		
NOTE BOOK		
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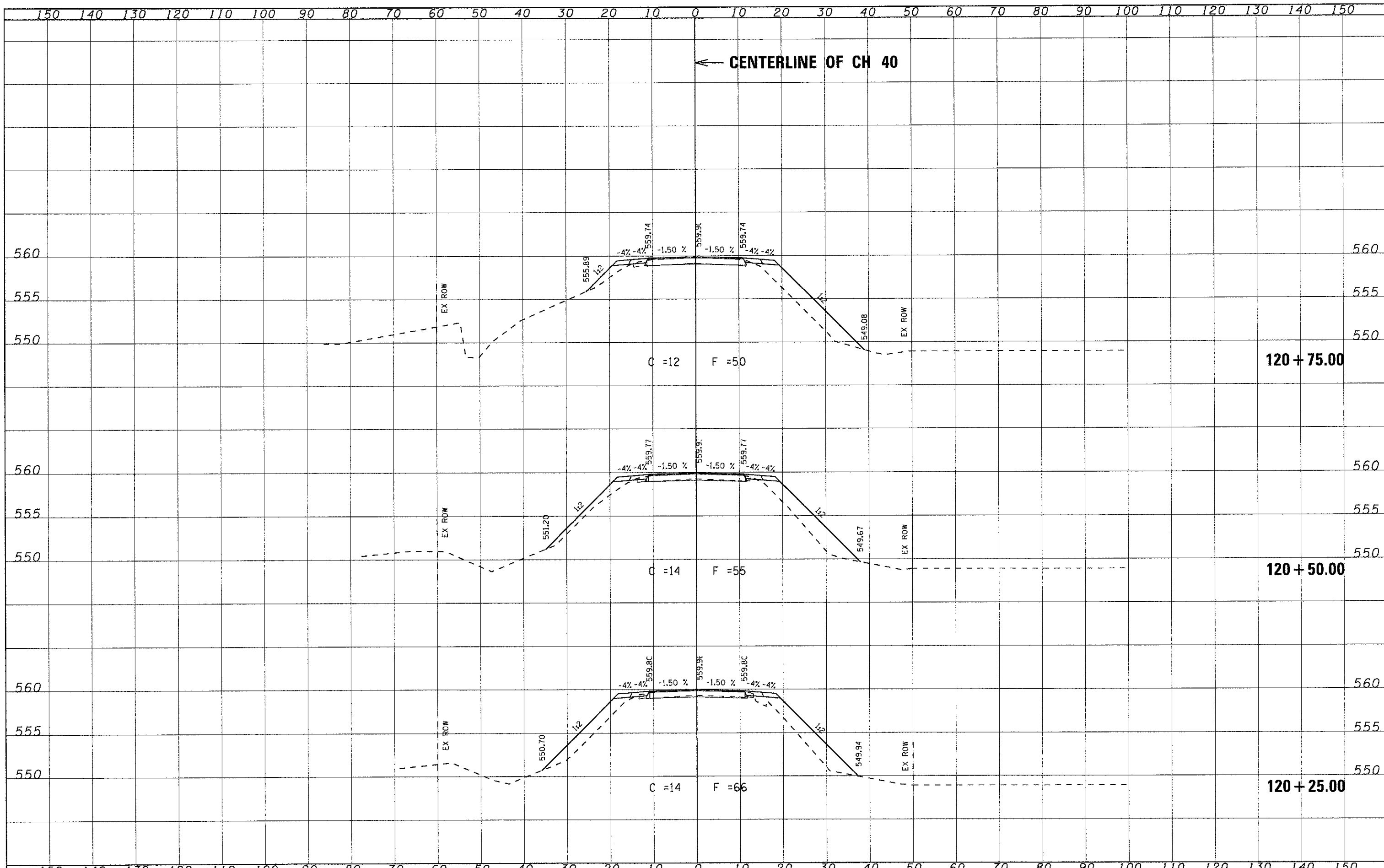
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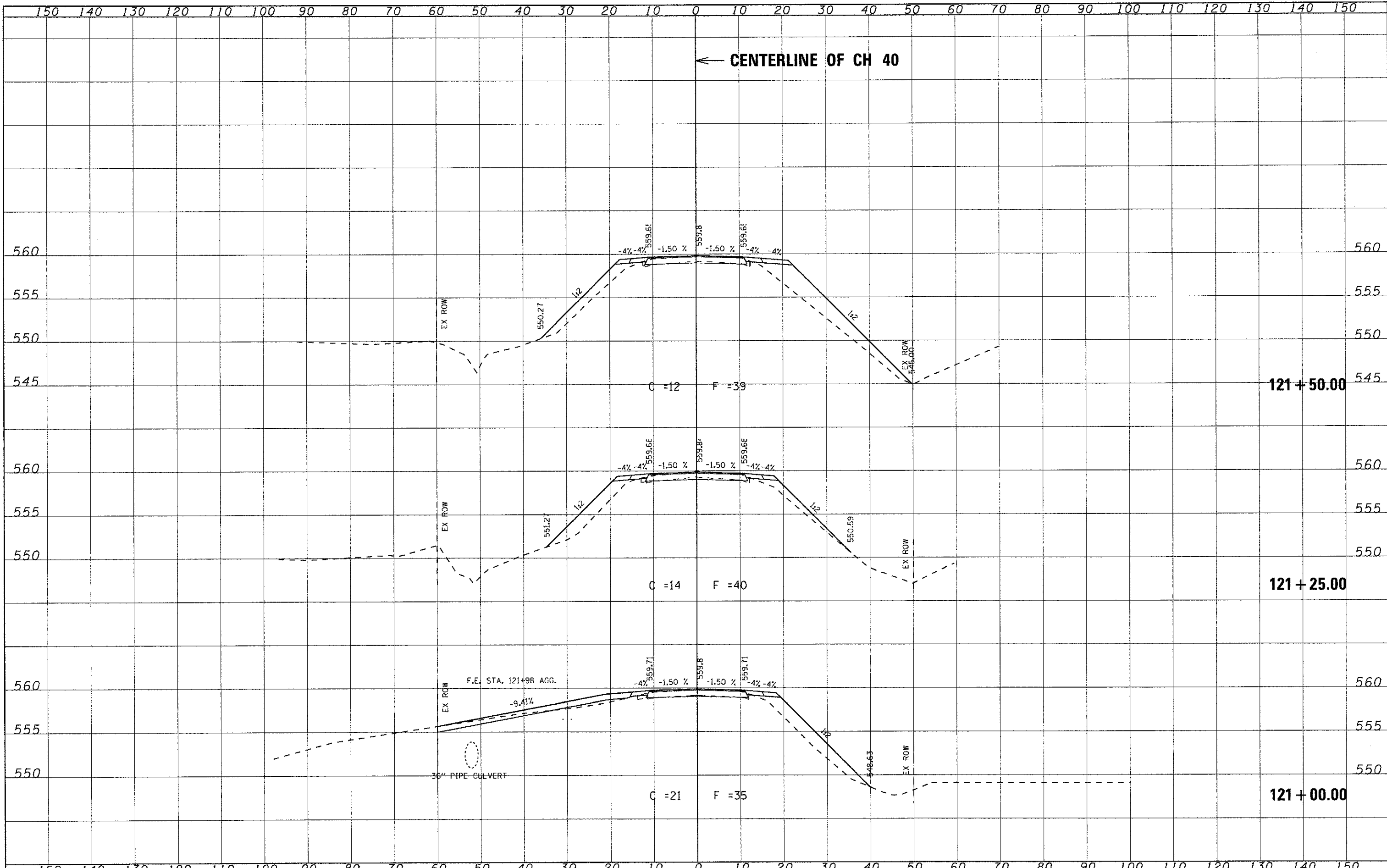
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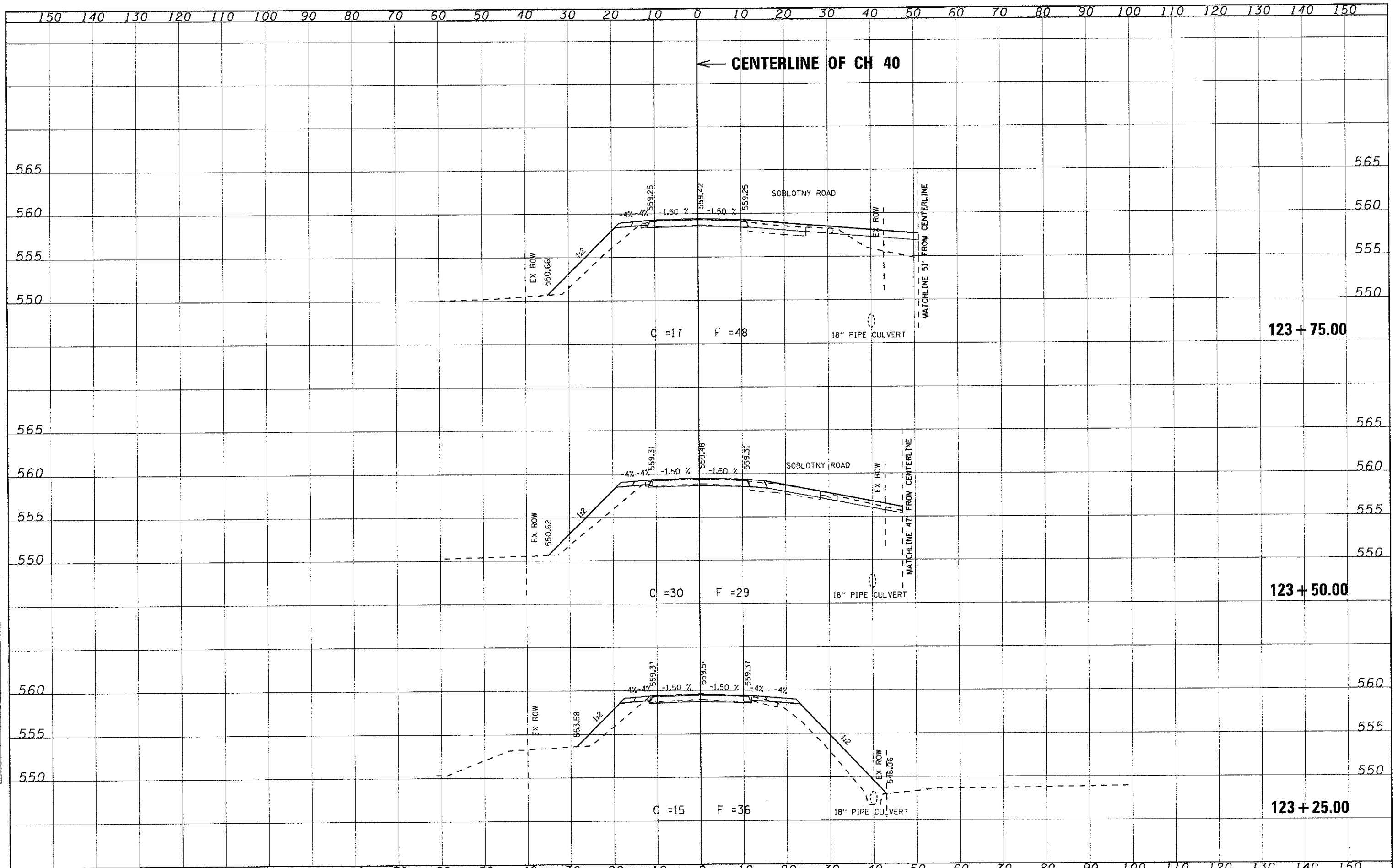
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		DATE -	REVISED -								ILLINOIS FED. AID PROJECT	

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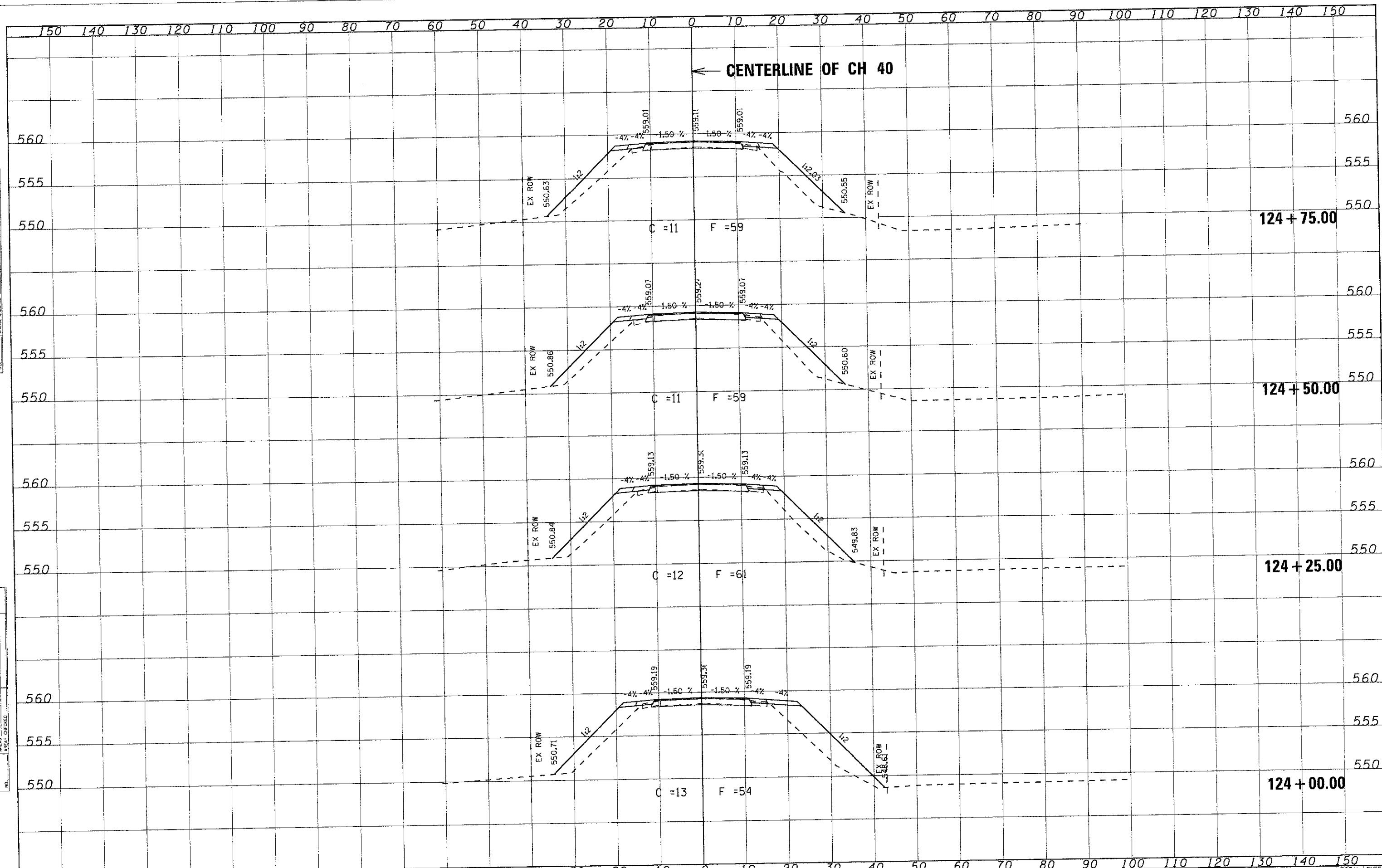
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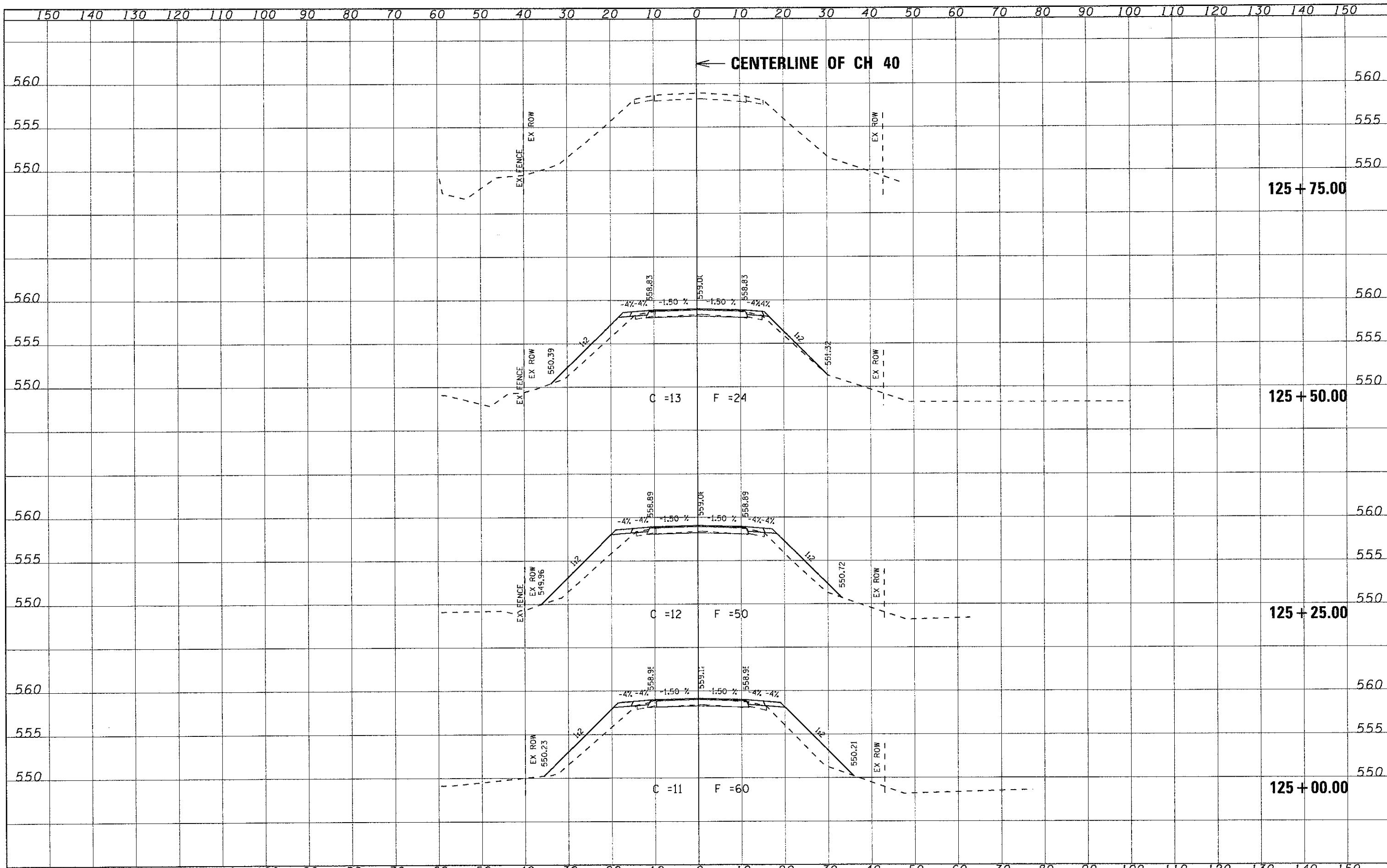
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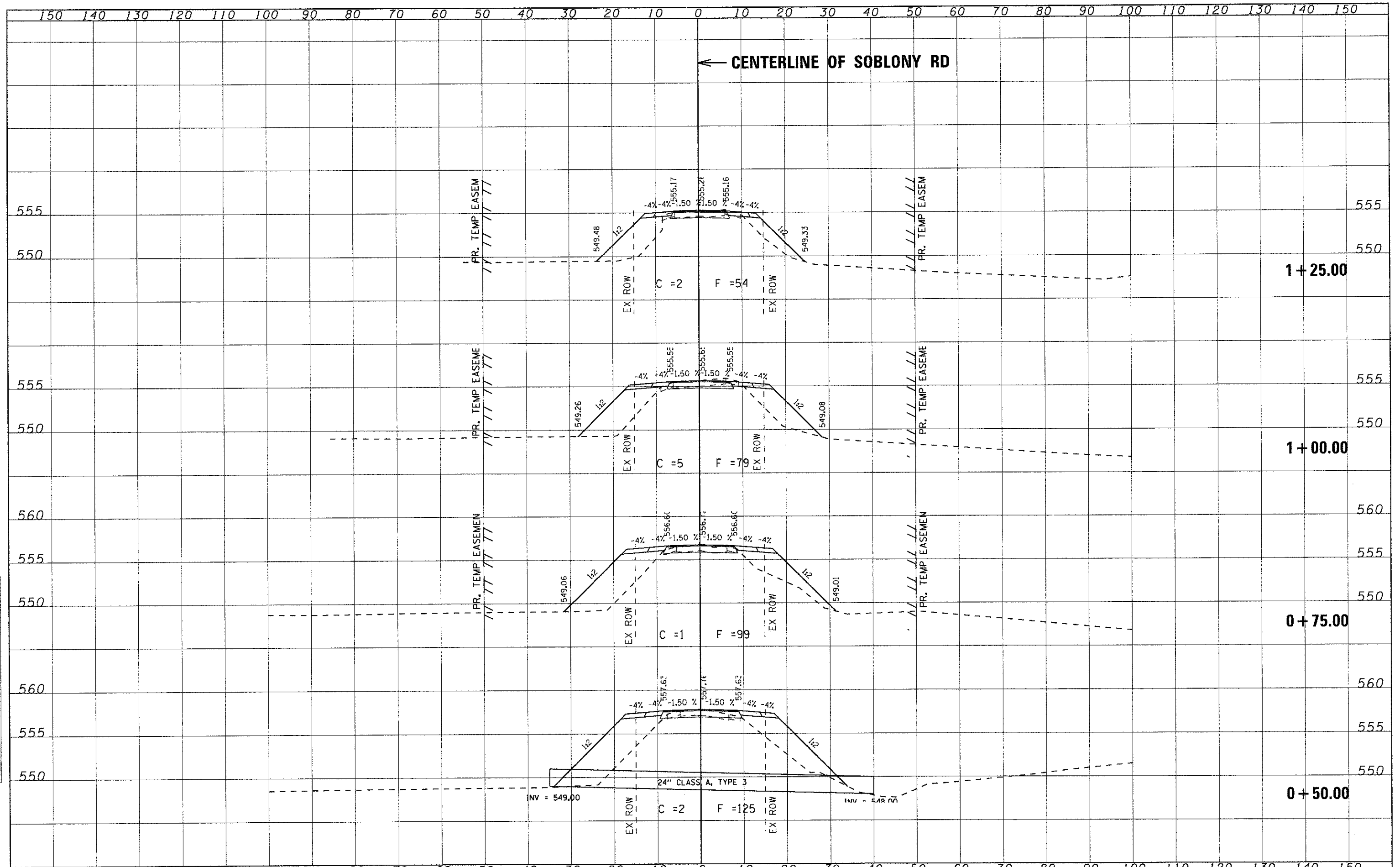
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	DATE -	REVISED -										

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← CENTERLINE OF SOBLONY RD

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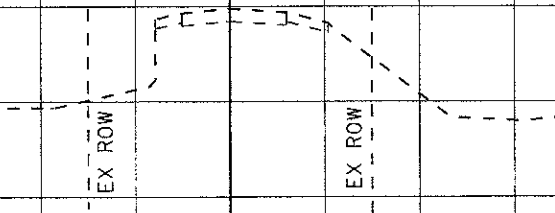
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