

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 70018		

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

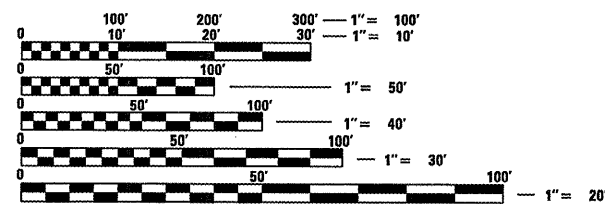
F.A.P. ROUTE 840 (IL 49)  
SECTION 121BR-1  
PROJECT ACF-0840(059)  
VERMILION COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

CURRENT ADT TRAFFIC DATA	
2007 ADT	= 1,200
2027 ADT	= 1,450
PV + PC %	= 81.9
SU %	= 5.5
MU %	= 3.9

DESIGN DESIGNATION  
MINOR ARTERIAL

SCALES { PLAN 1:20  
PROFILE HORIZ 1:20  
PROFILE VERT 1:20  
CROSS SECTIONS  
HORIZ 1:50  
VERT 1:20

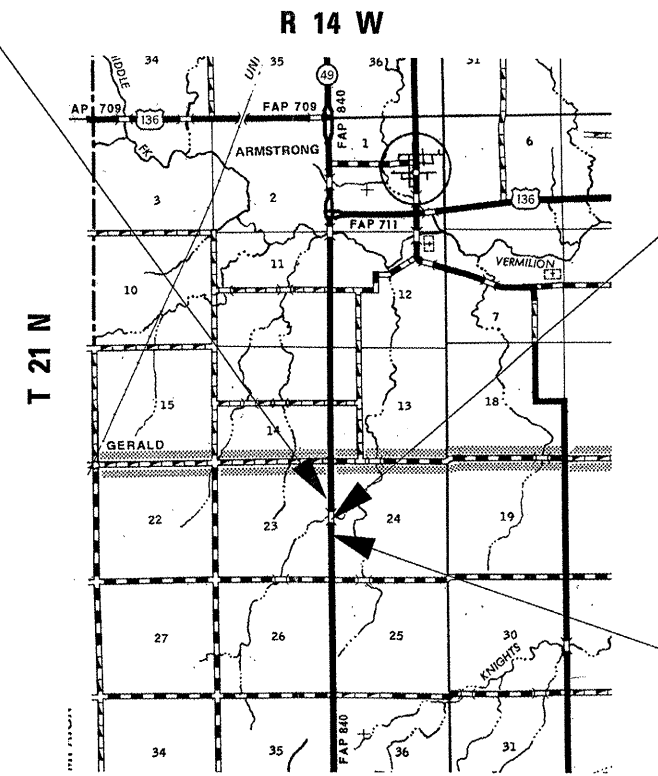


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

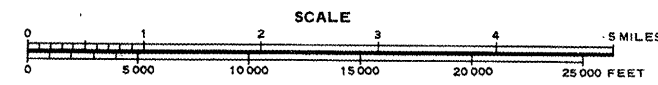
C-95-052-99  
STRUCTURE REMOVAL & CULVERT REPLACEMENT  
AT STREAM 2.6 MILES SOUTH OF U.S. 136 (E)

SECTION 122BR-1 ENDS  
STA. 580 + 00.00

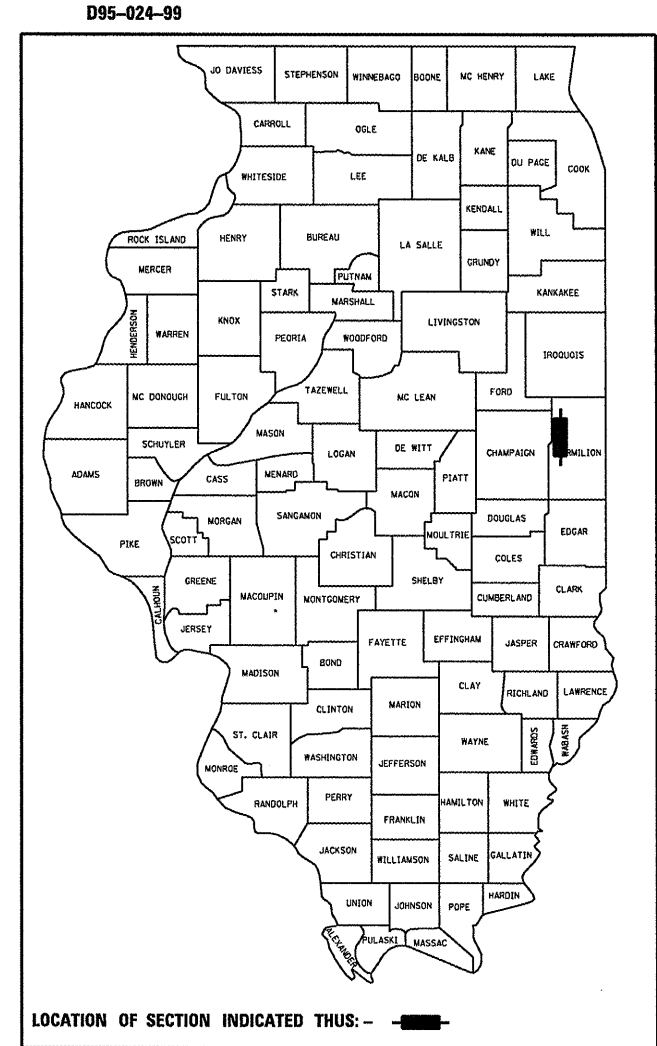


BRIDGE REMOVAL & CULVERT REPLACEMENT  
EXISTING S.N. 092-0165  
STA. 577 + 74  
R.C. SLAB BRIDGE ON CLOSED ABUTMENTS  
SKEW - 15°  
PROPOSED S.N. 092-0207  
STA. 577 + 74  
DOUBLE 12'X10', SKEW - 15°

SECTION 122BR-1 BEGINS  
STA. 575 + 00.00



TOTAL LENGTH OF SECTION = 500.00 FEET = 0.095 MILES  
NET LENGTH OF SECTION = 500.00 FEET = 0.095 MILES



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

× SUBMITTED 3/4 20 08  
Joseph W. Crowe  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
May 9, 20 08  
Eric E. Stamm  
ENGINEER OF DESIGN AND ENVIRONMENT  
May 9, 20 08  
Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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PROJECT ENGINEER: KEVIN TRAPP (217) 465-4181  
DESIGNER: JEFF M. SHERER

CONTRACT NO. 70018

**INDEX OF SHEETS**

1	COVER SHEET
2	INDEX OF SHEETS / HIGHWAY STANDARDS
3	GENERAL NOTES / COMMITMENTS / TIE POINT
4	SUMMARY OF QUANTITIES
5-6	EXISTING / PROPOSED TYPICAL SECTIONS
7-9	SCHEDULE OF QUANTITIES
10	PLAN & PROFILE SHEET
11	REMOVAL DETAIL
12	GUARDRAIL DETAIL
13	EROSION CONTROL DETAIL
14	PROPOSED PLAN DETAIL
15	BUTT JOINT & FIELD ENTRANCE DETAIL
16-18	EXISTING STRUCTURE INFORMATION
19	BOX CULVERT END SECTION DETAIL
20	POROUS GRANULAR BACKFILL DETAIL
21	SOIL BORING LOG SHEET
22-23	ROAD CLOSURE DETOUR DETAIL
24	FIELD TILE SYSTEMS DETAIL
25	PERMANENT SURVEY MARKERS (TYPE IV AND ADJUSTED)
26	TRAFFIC CONTROL & PROTECTION DEVICES DETAIL
27-30	PAVEMENT MARKING AND MARKERS DETAIL
31-44	CROSS SECTIONS

**HIGHWAY STANDARDS**

<b>STANDARD NO.</b>	<b>DESCRIPTION</b>
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEM
442201-03	CLASS C AND D PATCHES
515001-02	NAME PLATES FOR BRIDGES
542401	METAL END SECTIONS FOR PIPE CULVERTS
630001-07	STEEL PLATE BEAM GUARDRAIL
630101-07	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
666001	RIGHT OF WAY MARKERS
667101	PERMANENT SURVEY MARKERS
701006-02	OFF-ROAD OPERATIONS 2L, 2W 15' TO PAVEMENT EDGE FOR SPEEDS ≥ 45 MPH
701011-01	OFF-ROAD MOVING OPERATIONS 2L, 2W DAY ONLY FOR SPEEDS ≥ 45 MPH
701201-02	LANE CLOSURE, 2L, 2W DAY ONLY ON-ROAD TO 24" OFF-ROAD FOR SPEEDS ≥ 45 MPH
701301-02	LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
701306-01	LANE CLOSURE 2L, 2W SLOW MOVING OPERATIONS DAY ONLY FOR SPEEDS ≥ 45 MPH
701311-02	LANE CLOSURE 2L, 2W MOVING OPERATIONS DAY ONLY
701901	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>INDEX OF SHEETS /HIGHWAY STANDARDS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 840	SECTION 121BR-1	COUNTY VERMILION	TOTAL SHEETS 44	SHEET NO. 2
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70018	

**COMMITMENTS**

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

MR. VERNON RADEMACHER SHALL BE CONTACTED BY THE CONTRACTOR PRIOR TO CONSTRUCTION CONCERNING ANY BROKEN CONCRETE, SURPLUS EARTH EXCAVATION, OR ANY OTHER SUITABLE WASTE MATERIAL THAT HE MAY ACQUIRE PER AGREEMENT WITH THE CONTRACTOR.

**GENERAL NOTES**

G.N.-100  
ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.09A  
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.31  
UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123 OR 811.

G.N.-250C  
SEEDING, CLASS 7 AND MULCH, METHOD 2 IS INCLUDED IN THIS CONTRACT TO SEED NEW EARTH SHOULDERS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE CLASS 7 SEEDING AND MULCH WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH SHOULDERS AT THE TIME OF THEIR COMPLETION.

G.N.-406  
THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406.05b  
ALL LEVELING BINDER OR BINDER SHALL BE GIVEN A FOG COAT OF PRIME BEFORE THE SURFACE COURSE IS PLACED WHEN DIRECTED BY THE ENGINEER.

THE FOG COAT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER GALLON FOR BITUMINOUS MATERIAL (PRIME COAT) AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**GENERAL NOTES**

GN 406H Mixture Requirements

Location Mixture Use	IL 49 Class D PATCHES	IL 49 Level binder	IL 49 Surface
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (Max)	25	25	15
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 19.0	IL 9.5	IL 9.5
Friction Aggregate	N.A.	Mix C	Mix C

G.N.-442B -- PATCHING SCHEDULES  
THE PATCHING SCHEDULES INCLUDED IN THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF COMPLETION OF THE PLANS FOR LETTING. VARIATIONS IN LOCATION AND SIZES OF BOTH FULL-DEPTH AND PARTIAL-DEPTH PATCHES MAY OCCUR.

G.N.-540  
THE CONTRACTOR SHALL ASSEMBLE AND MATCH-MARK THE PRECAST BOX CULVERT SECTIONS AND END SECTIONS PRIOR TO SHIPMENT OF THESE COMPONENTS FROM THE MANUFACTURER, AND AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER FIT ON EACH JOINT. ANY SECTIONS OR END SECTIONS WHICH DO NOT PROVIDE A PROPER FIT AT THE JOINT SHALL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION BEING ALLOWED.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PRECAST CONCRETE BOX CULVERTS OF THE SIZE SPECIFIED.

G.N.-542  
BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N.-542B  
ALL THE ENTRANCE CULVERTS LENGTHS SHOWN IN THE PLANS WERE CALCULATED WITH THE ASSUMPTION THAT METAL PIPES AND METAL END SECTION WOULD BE USED.

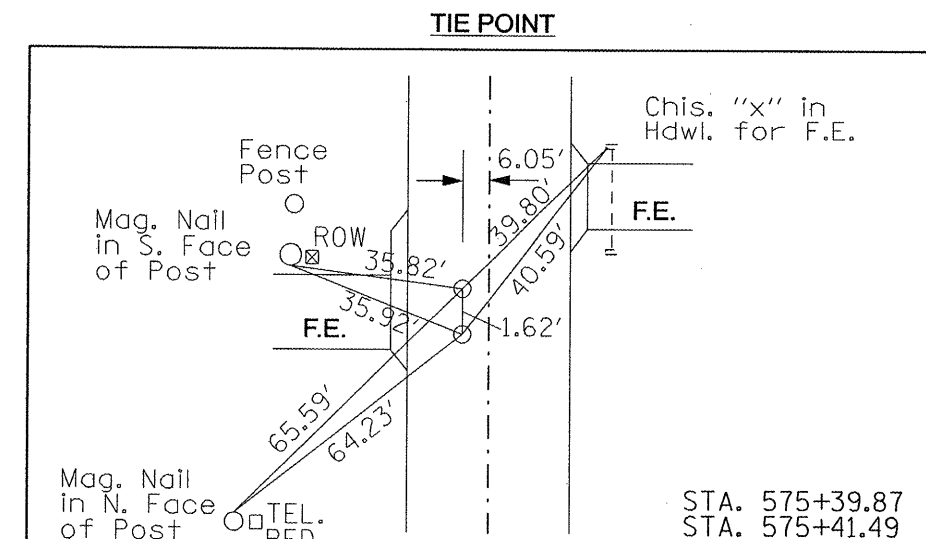
G.N.-542D  
THIS WORK SHALL CONSIST OF REPLACING THE EXISTING ENTRANCE CULVERTS AT LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. PRIOR TO REPLACING THE CULVERT THE DITCH SHALL BE CLEANED FOR 25 FEET EACH WAY FROM THE ENDS OF THE CULVERT AS DIRECTED BY THE ENGINEER.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE CULVERTS OF THE TYPE AND SIZE SPECIFIED AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE WORK AS HEREIN SPECIFIED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-703A  
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.-781  
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 78-1001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G.N.-1004.01  
COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES /COMMITMENTS /TIE POINT**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

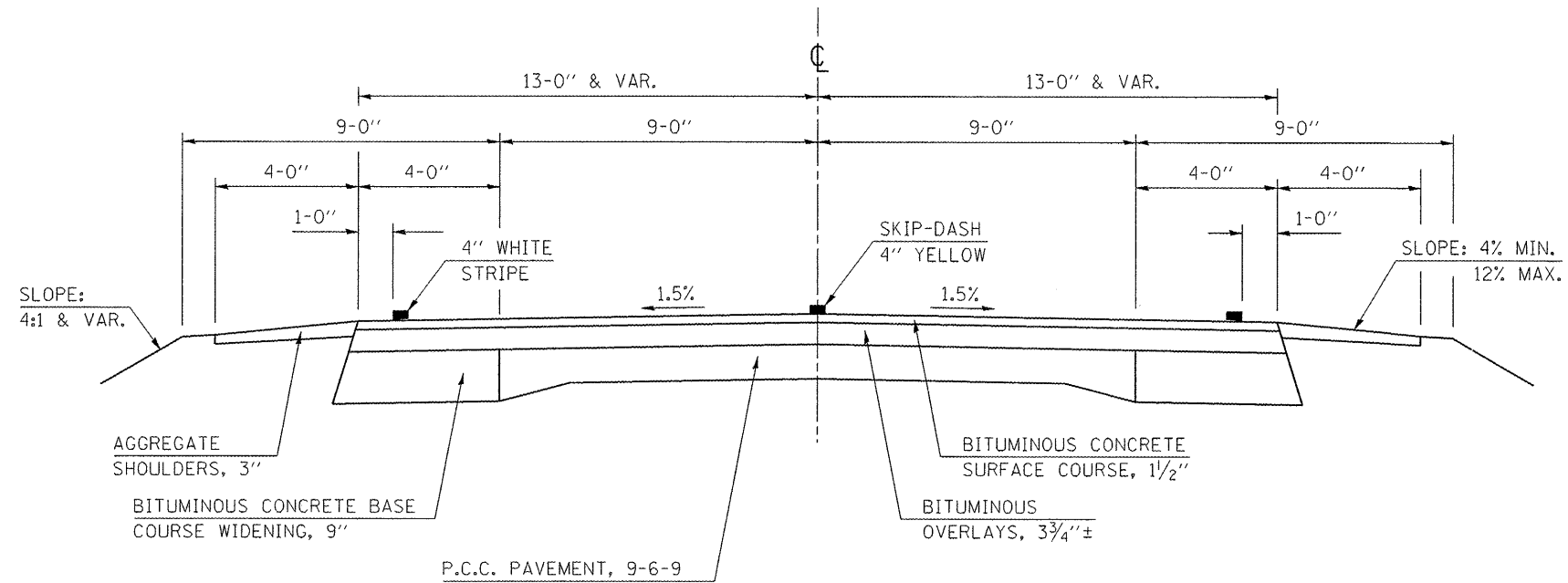
F.A.P. RTE. 840	SECTION 121BR-1	COUNTY VERMILION	TOTAL SHEETS 44	SHEET NO. 3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				CONTRACT NO. 70018





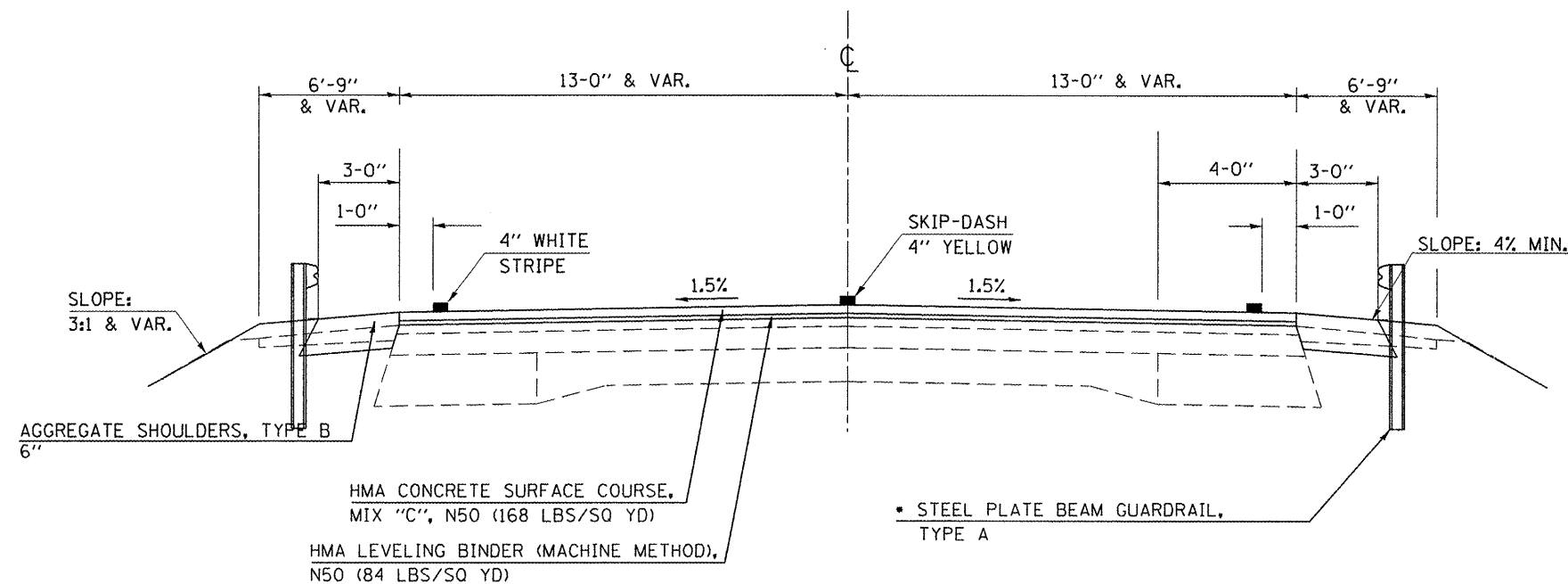
# EXISTING TYPICAL SECTION

STATION TO STATION  
575 + 00.00 580 + 00.00



# PROPOSED TYPICAL SECTION

STATION TO STATION  
575 + 00.00 580 + 00.00



\* SEE SHEET 9 & 12 OF 41 FOR LOCATIONS

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

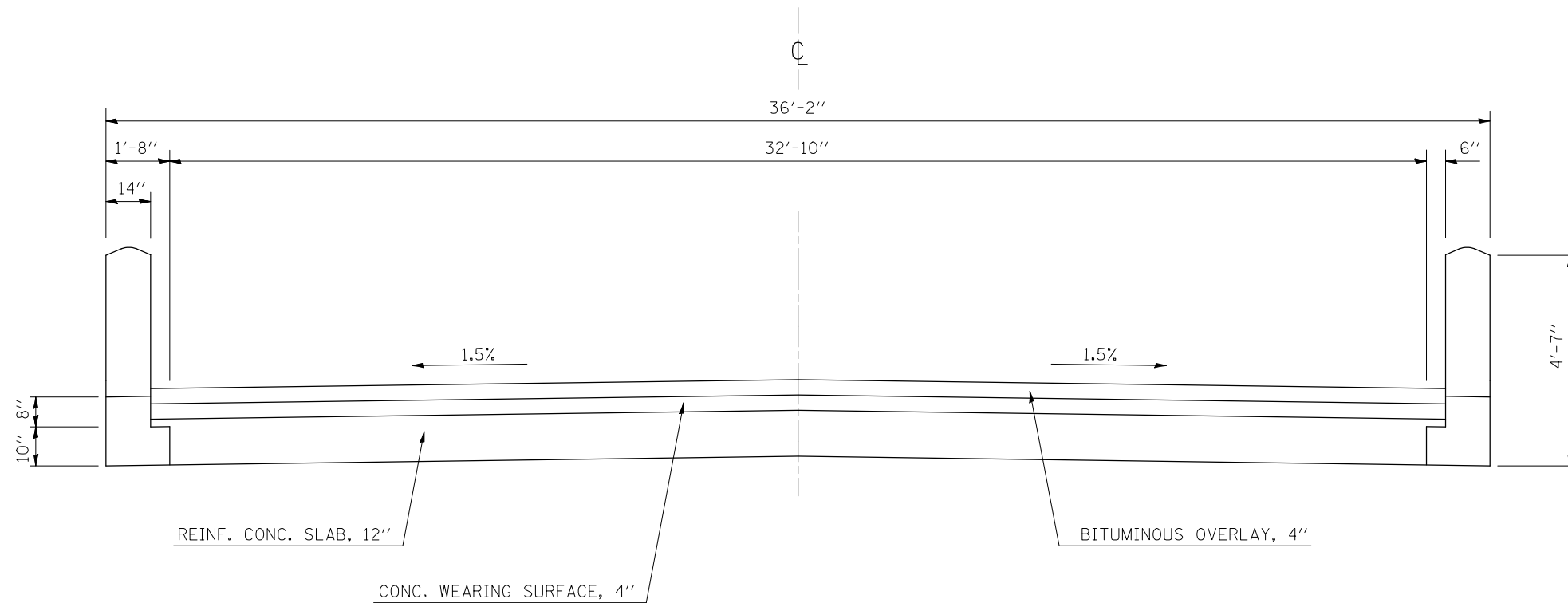
EXISTING & PROPOSED TYPICAL SECTIONS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70018	

# EXISTING S.N. 092-0165

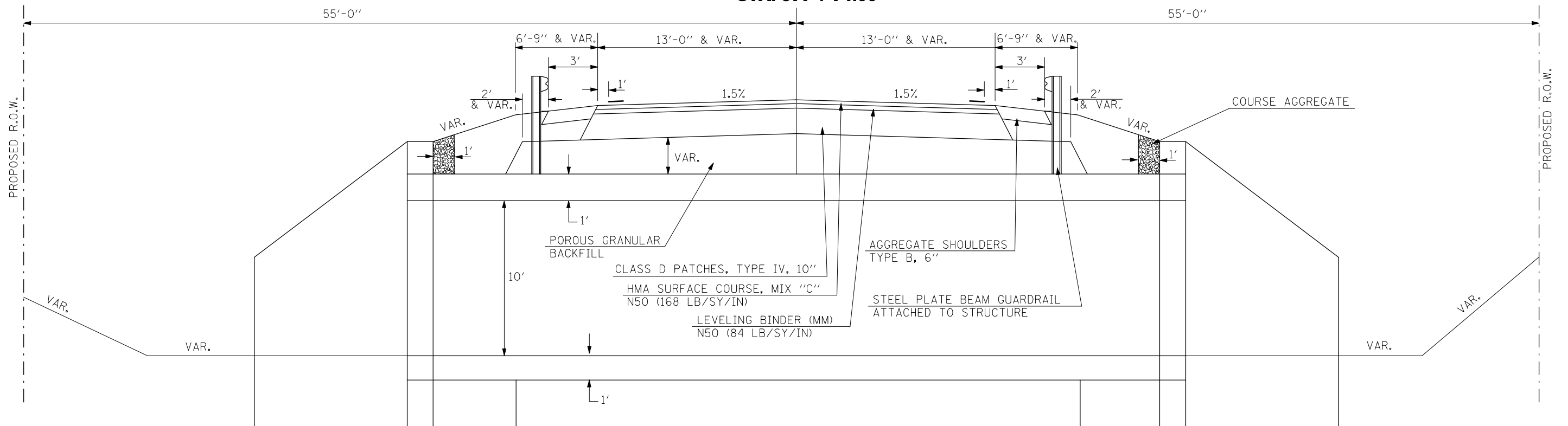
**STATION TO STATION**  
**577 + 63.65 TO 577 + 84.35**



# PROPOSED S.N. 092-0207

**STA. 577 + 74.00**

\* SEE STD. 630101-07



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		DATE -	REVISED -

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

<b>EXISTING &amp; PROPOSED STRUCTURE TYPICAL SECTION</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70018	

**EARTHWORK SCHEDULE**

STATION	TO	STATION	20200100 EARTH EXCAVATION (CU YD)	ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	20400800 FURNISHED EXCAVATION (CU YD)
LT 575+00		LT 580+00	95.0	71.3	211.0	139.8
RT 575+00		RT 580+00	50.0	37.5	275.0	237.5
<b>TOTAL =</b>			<b>145.0</b>	<b>108.8</b>	<b>486.0</b>	<b>377.3</b>
<b>USE =</b>			<b>145.0</b>	<b>109.0</b>	<b>486.0</b>	<b>377.0</b>

\*FURNISHED EXCAVATION = EARTH EXCAVATION X ADJUSTMENT FACTOR (0.75) - EMBANKMENT

**LANDSCAPING SCHEDULE**

STATION	TO	STATION	AREA (ACRE)	28000250 TEMPORARY EROSION SEEDING (POUND)	25000350 SEEDING CLASS 7 (ACRE)	25000200 SEEDING CLASS 2 (ACRE)	25000400 NITROGEN FERT. (POUNDS)	25000500 PHOS FERT. (POUNDS)	25000600 POTAS. FERT. (POUNDS)	25100115 MULCH METHOD 2 (ACRE)
LT 575+00		LT 580+00	0.4	40	0.4	0.4	36.0	36.0	36.0	0.4
RT 575+00		RT 580+00	0.4	40	0.4	0.4	36.0	36.0	36.0	0.4
<b>TOTAL =</b>			<b>0.80</b>	<b>80.0</b>	<b>0.80</b>	<b>0.80</b>	<b>72.0</b>	<b>72.0</b>	<b>72.0</b>	<b>0.80</b>
<b>USE =</b>			<b>0.8</b>	<b>80.0</b>	<b>0.8</b>	<b>0.8</b>	<b>72.0</b>	<b>72.0</b>	<b>72.0</b>	<b>0.8</b>

**EROSION CONTROL SCHEDULE**

STATION	28000300 TEMPORARY DITCH CHECKS (EACH)	28000500 INLET & PIPE PROTECTION (EACH)
LT 575+20		1.0
RT 575+38		1.0
LT 576+25	1.0	
RT 576+25	1.0	
LT 577+25	1.0	
RT 577+25	1.0	
LT 577+08	1.0	
RT 578+50	1.0	
LT 580+00	1.0	
RT 580+00	1.0	
<b>TOTAL =</b>		<b>8.0</b>

**28000400 PERIMETER EROSION BARRIER**

STATION	TO	STATION	(LIN FT)
LT 575+00		LT 575+25	25.0
RT 575+00		RT 575+45	45.0
LT 575+40		LT 576+50	110.0
RT 575+52		RT 576+50	98.0
LT 576+50		LT 576+50	15.0
RT 576+50		RT 576+50	15.0
LT 576+50		LT 579+00	250.0
RT 576+50		RT 579+00	250.0
LT 579+00		LT 579+00	15.0
RT 579+00		RT 579+00	15.0
LT 579+00		LT 580+00	100.0
RT 579+00		RT 580+00	100.0
<b>TOTAL =</b>			<b>1,038.0</b>

**20900110 POROUS GRANULAR BACKFILL**

STATION	TO	STATION	CU YD
CL 577+45.3		CL 578+02.8	206.0
<b>TOTAL =</b>			<b>206.0</b>

**\*28100107 STONE RIPRAP, CLASS A4**

STATION	TO	STATION	SQ YD	28200200 FILTER FABRIC SQ YD
LT 577+40		LT 577+88	129.8	129.8
RT 577+60		RT 578+08	129.8	129.8
<b>TOTAL =</b>			<b>259.6</b>	<b>259.6</b>
<b>USE =</b>			<b>260.0</b>	<b>260.0</b>

\* THE ENGINEER MAY MODIFY LOCATIONS OF STONE RIPRAP, CLASS A4 BASED ON FIELD CONDITIONS

**40200800 AGGREGATE SURFACE COURSE, TYPE B**

STATION	*TONS	
FE LT 575+32	62	
FE RT 575+53	64	
<b>TOTAL =</b>		<b>126</b>

\*AREAS MEASURED IN CADD. ASSUME 1.8 TONS/SQ YD FACTOR

**HMA SURFACING SCHEDULE**

STATION TO STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)	THICKNESS (IN)	40600100	40600300	40603310	40600625	
					BIT MATL PRIME (GAL)	AGG PR COAT (TON)	HMA SURFACE COURSE MIX "C", N50 (TON)	LB (MM) N50 (TON)	
575+00.00	580+00.00	500.00	26.00	1444.44	1.50	144.4	2.9	121.3	60.7
<b>TOTAL =</b>					<b>144.4</b>	<b>2.9</b>	<b>121.3</b>	<b>60.7</b>	
<b>USE =</b>					<b>145.0</b>	<b>3.0</b>	<b>122.00</b>	<b>61.00</b>	

**40600982 HMA SURFACE REMOVAL-BUTT JOINT**

STATION TO STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ. YDS.)	
575+00	575+45	45.0	26.0	130.0
579+55	580+00	45.0	26.0	130.0
<b>TOTAL =</b>			<b>260.0</b>	

**40600990 TEMPORARY RAMPS**

STATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQ YD)
575+00	26	5	14.4
580+00	26	5	14.4
<b>TOTAL =</b>			<b>28.8</b>
<b>USE =</b>			<b>29.0</b>

**40800050 INCIDENTAL HMA SURFACING**

STATION	AREA (SQ YDS)	INCHES AVERAGE THICKNESS	40800050	40800010	40800030
			TONS FIELD ENTR.	GALLONS BIT MATLS PR CT	TONS AGG PR CT
RT 575+53	8.9	1.875	0.9	0.9	0.02
LT 575=32	10.8	1.875	1.1	1.1	0.02
<b>TOTAL QTY =</b>			<b>2.1</b>	<b>2.0</b>	<b>0.04</b>
<b>USE =</b>			<b>2.0</b>	<b>2.0</b>	<b>1.0</b>

**44201759 CLASS D PATCHES, TYPE IV, 10"**

STATION TO STATION	LENGTH (FT)	WIDTH (FT)	DEPTH (IN)	**TYPE IV SQ YD	
577+45.3	578+02.8	57.5	26.6	12	170.0
<b>TOTAL =</b>				<b>170.0</b>	

\*\*PATCH AREA MEASURED IN CADD

**48101500 AGGREGATE SHOULDERS, TYPE B, 6"**

STATION TO STATION	LENGTH (FT)	WIDTH (FT)	THICKNESS (INCHES)	48101500 AGG SHLD TYPE B, 6" (SQ YD)	
RT 575+00.00	RT 580+00.00	500.0	3	6	166.7
LT 575+00.00	LT 580+00.00	500.0	3	6	166.7
<b>TOTAL =</b>				<b>333.4</b>	
<b>USE =</b>				<b>334.0</b>	

**SCHEDULE OF DRAINAGE STRUCTURES**

STATION	50100100 REM EXIST STRUCT (EACH)	51500100 REM EXIST CULV (EACH)	51500100 NAME PLATES (EACH)	54001000 BOX CUL END SECT (EACH)	54021210 PCBC 12 X 10 (M273) (FOOT)	542D0220 P CUL D, T1, 15" (FOOT)	54213450 END SECTIONS 15" (EACH)
SN 092-0165 RT/LT 577+74.00	1.0						
SN 092-0207 RT/LT 577+74.00			1.0	2.0	104.0		
FE RT 575+53.00		1.0				22.0	2.0
FE LT 575+32.00		1.0				22.0	2.0
<b>TOTALS =</b>	<b>1.0</b>	<b>2.0</b>	<b>1.0</b>	<b>2.0</b>	<b>104.0</b>	<b>44.0</b>	<b>4.0</b>

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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	8
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70018	

**63000000 STEEL PLATE BEAM GUARDRAIL, TYPE A**

	STATION	TO	STATION	FOOT
RT	576+34.65		RT 577+34.65	100.0
LT	576+75.85		LT 577+25.85	50.0
LT	578+13.35		LT 579+75.85	162.5
RT	578+72.15		RT 579+22.15	50.0
<b>TOTAL =</b>				<b>362.5</b>

**63000005 STEEL PLATE BEAM GUARDRAIL, TYPE B**

	STATION	TO	STATION	FOOT
LT	577+25.85		LT 577+50.85	25.0
RT	577+34.65		RT 577+59.65	25.0
LT	577+88.35		LT 578+13.35	25.0
RT	577+97.15		RT 578+22.15	25.0
<b>TOTAL =</b>				<b>100.0</b>

**63000025 STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURE**

	STATION	TO	STATION	FOOT
LT	577+50.85		LT 577+88.35	37.5
RT	577+59.65		RT 577+97.15	37.5
<b>TOTAL =</b>				<b>75.0</b>

**63100167 TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)**

	STATION	TO	STATION	EACH
RT	575+84.65		RT 576+34.65	1.0
LT	576+25.85		LT 576+75.85	1.0
RT	578+72.15		RT 579+22.15	1.0
LT	579+75.85		LT 580+25.85	1.0
<b>TOTAL =</b>				<b>4.0</b>

**66700110 PERMANENT SURVEY MARKERS TO BE ADJUSTED**

	STATION	O/S	EACH
LT	575+39.9	5.2'	1.0
LT	575+41.5	5.2'	1.0
<b>TOTAL =</b>			<b>2.0</b>

**63200310 GUARDRAIL REMOVAL**

	STATION	TO	STATION	FOOT
LT	576+57.1		LT 577+59.1	102.0
RT	576+66.5		RT 577+68.5	102.0
LT	577+79.9		LT 578+81.9	102.0
RT	577+89.5		RT 578+91.5	102.0
<b>TOTAL =</b>				<b>408.0</b>

**66600105 FURNISH AND ERECT ROW MARKERS**

	STATION	O/S	EACH
LT	576+50	40'	1.0
LT	576+50	55'	1.0
RT	576+50	40'	1.0
RT	576+50	55'	1.0
LT	579+00	40'	1.0
LT	579+00	55'	1.0
RT	579+00	40'	1.0
RT	579+00	55'	1.0
<b>TOTAL =</b>			<b>8.0</b>

**78201000 TERMINAL MARKER DIRECT APPLIED**

	STATION	EACH
RT	575+84.65	1.0
LT	576+25.85	1.0
RT	579+22.15	1.0
LT	580+25.85	1.0
<b>TOTAL =</b>		<b>4.0</b>

**X0323115 REFLECTOR MARKER, TYPE A**

	STATION	TO	STATION	EACH
RT	576+34.65		RT 578+72.15	4.0
LT	576+75.85		LT 579+75.85	5.0
<b>TOTAL =</b>				<b>9.0</b>

**70300100 SHORT-TERM PAVEMENT MARKING**

	STATION	TO	STATION	LIN.FT.
CL	575+00.00		CL 580+00.00	100.0
<b>*TOTAL =</b>				<b>100.0</b>

\* TWO APPLICATIONS (LEVEL BINDER, AND SURFACE)

**70301000 WORK ZONE PAVEMENT MARKING REMOVAL**

	STATION	TO	STATION	SQ. FT.
CL	575+00.00		CL 580+00.00	16.7
<b>TOTAL =</b>				<b>16.7</b>
<b>USE =</b>				<b>17.0</b>

**78001110 PAINT PAVEMENT MARKING-LINE 4" (WHITE)**

	STATION	TO	STATION	LIN.FT.
LT	575+00.00		LT 580+00.00	500.0
RT	575+00.00		RT 580+00.00	500.0
<b>SUBTOTAL =</b>				<b>1000.0</b>

**78001110 PAINT PAVEMENT MARKING-LINE 4" (YELLOW)**

	STATION	TO	STATION	LIN.FT.
CL	575+00.00		CL 580+00.00	166.7
<b>SUBTOTAL =</b>				<b>166.7</b>
<b>USE =</b>				<b>1167.0</b>

**78100100 RAISED REFLECTIVE MARKER (AMBER BIDIRECTIONAL)**

	STATION	TO	STATION	EACH
	575+00		580+00	6.0
	(80' CTS.)			
<b>TOTAL =</b>				<b>6.0</b>

**78300200 RAISED REFLECTIVE MARKER REMOVAL**

	STATION	TO	STATION	EACH
	575+00		580+00	6.0
<b>TOTAL =</b>				<b>6.0</b>

PERMANENT SURVEY MARKERS  
TO BE ADJUSTED

STA. 576+50  
55' LT.

STA. 576+50  
40' LT.

PROPOSED S.N. 092-0207  
DBL. PRECAST CONC. BOX CULVERT, (M273),  
12' X 10' = 104'  
BOX CULVERT END SECTION = 2.0 EACH  
STATION 577+74, SKEW 15° RT FWD  
USFL = 706.04  
DSFL = 705.97  
PROPOSED R.O.W. LINE

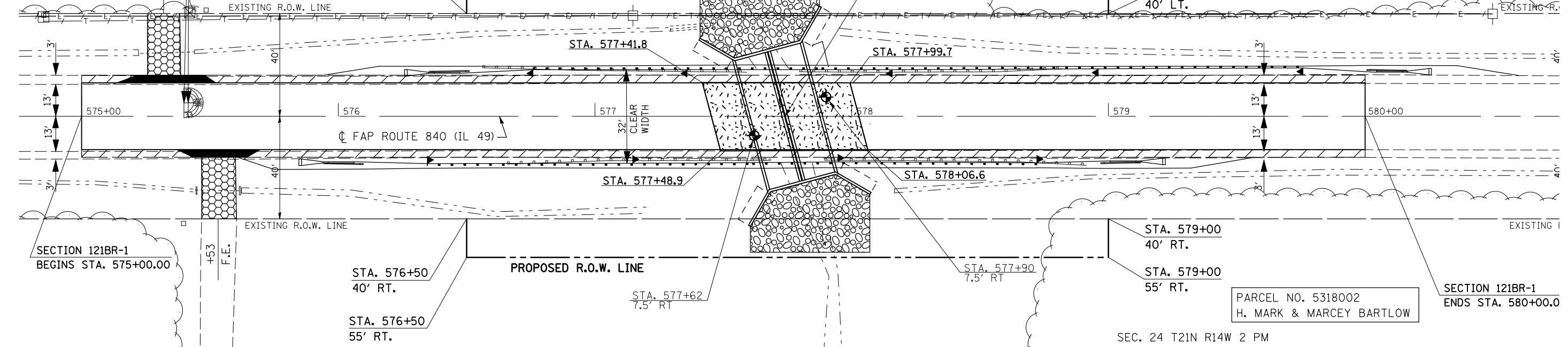
SEC. 23 T21N R14W 2 PM

PARCEL NO. 5318001  
VERNON & NORINE RADEMACHER

STA. 579+00  
55' LT.

STA. 579+00  
40' LT.

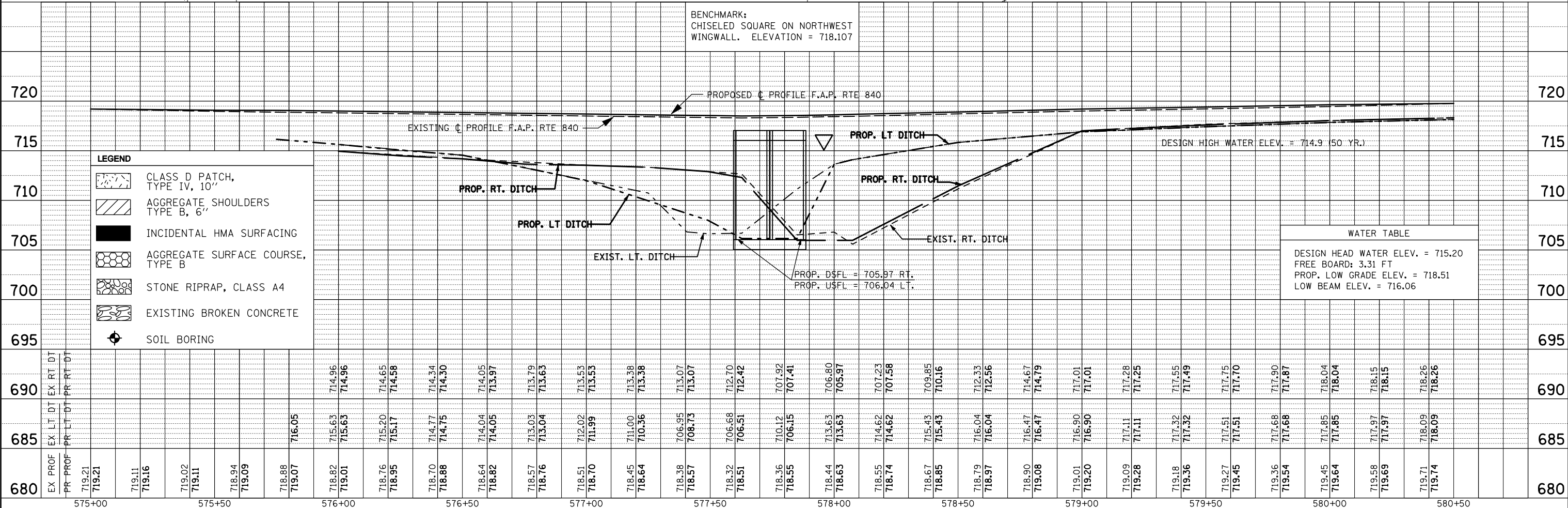
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	FILED		
	NO.		



PARCEL NO. 5318002  
H. MARK & MARCEY BARTLOW

SEC. 24 T21N R14W 2 PM

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	FILED		
	NO.		



**LEGEND**

- CLASS D PATCH, TYPE IV, 10"
- AGGREGATE SHOULDERS TYPE B, 6"
- INCIDENTAL HMA SURFACING
- AGGREGATE SURFACE COURSE, TYPE B
- STONE RIPRAP, CLASS A4
- EXISTING BROKEN CONCRETE
- SOIL BORING

FILE NAME =	USER NAME = collierbw	DESIGNED -	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p> <p align="center"><b>PLAN &amp; PROFILE SHEET</b></p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\projects\502499 (v8)\2007.dtm\149.proFiles.dgn		DRAWN -	REVISED -		840	121BR-1	VERMILION	44	10
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 70018				
PLOT DATE = 3/19/2008		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN NOTES

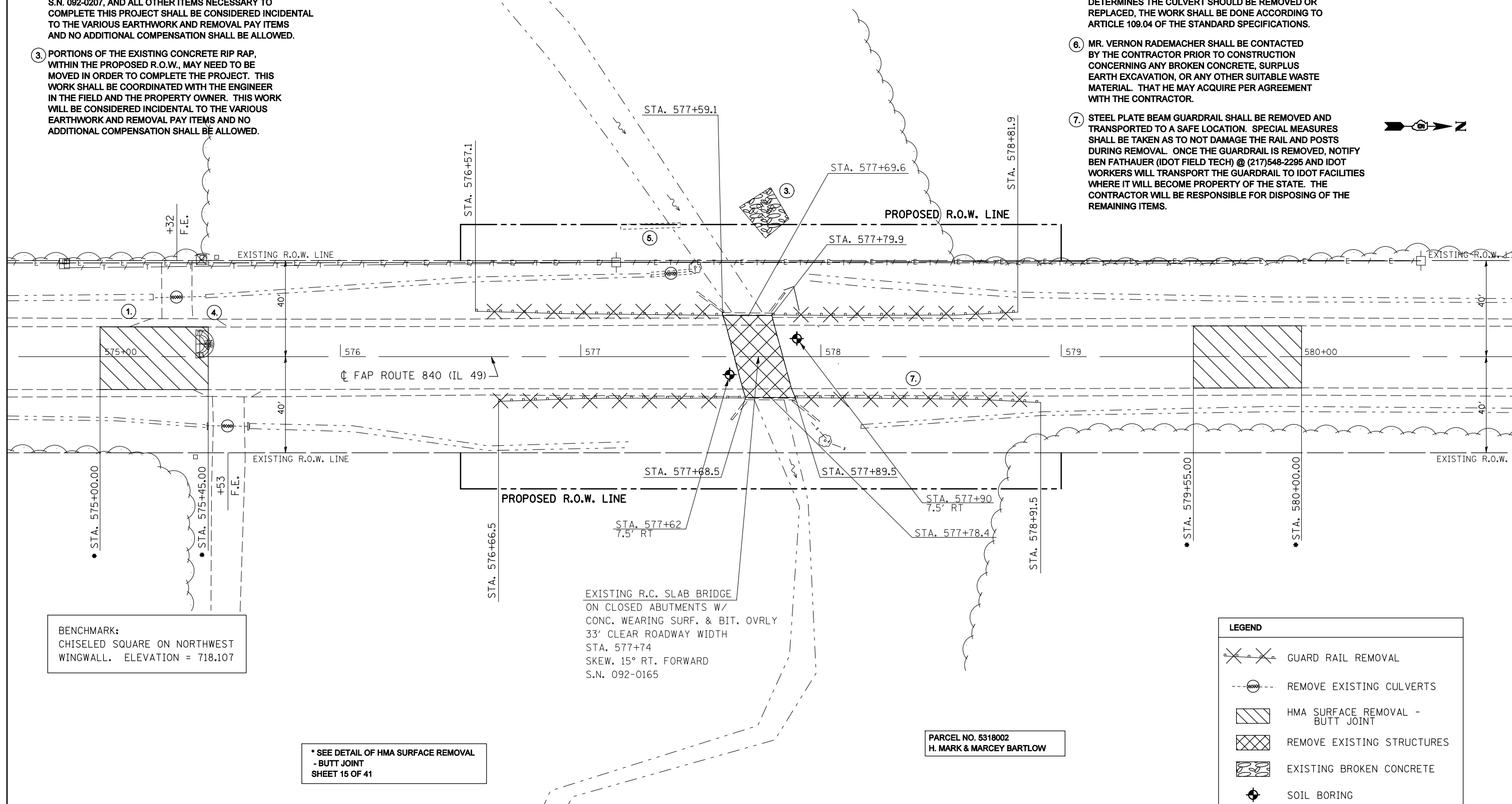
1. FIELD ENTRANCE CULVERTS SHALL BE REMOVED AT LOCATIONS SHOWN IN PLANS. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR REMOVE EXISTING CULVERTS, IN WHICH THE PRICE SHALL INCLUDE REMOVAL OF HEADWALL AND ANY OTHER MATERIAL ASSOCIATED WITH THE REMOVAL.
2. TREE REMOVAL & FENCE REMOVAL ASSOCIATED WITH THE REMOVAL OF S.N. 092-0165, CONSTRUCTION OF S.N. 092-0207, AND ALL OTHER ITEMS NECESSARY TO COMPLETE THIS PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS EARTHWORK AND REMOVAL PAY ITEMS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
3. PORTIONS OF THE EXISTING CONCRETE RIP RAP, WITHIN THE PROPOSED R.O.W., MAY NEED TO BE MOVED IN ORDER TO COMPLETE THE PROJECT. THIS WORK SHALL BE COORDINATED WITH THE ENGINEER IN THE FIELD AND THE PROPERTY OWNER. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE VARIOUS EARTHWORK AND REMOVAL PAY ITEMS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

PLAN NOTES (CONT'D)

4. CARE SHALL BE TAKEN BY THE CONTRACTOR NOT TO DAMAGE THE EXISTING BITUMINOUS FE APRONS. IF DAMAGE OCCURS THE CONTRACTOR SHALL RECONSTRUCT THE APRONS ACCORDING TO CADD DETAIL 4080050A AT HIS / HER OWN EXPENSE.
5. ENGINEER IN FIELD SHALL LOCATE THE EXISTING PIPE CULVERTS DURING CONSTRUCTION. IF THE ENGINEER DETERMINES THE CULVERT SHOULD BE REMOVED OR REPLACED, THE WORK SHALL BE DONE ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
6. MR. VERNON RADEMACHER SHALL BE CONTACTED BY THE CONTRACTOR PRIOR TO CONSTRUCTION CONCERNING ANY BROKEN CONCRETE, SURPLUS EARTH EXCAVATION, OR ANY OTHER SUITABLE WASTE MATERIAL. THAT HE MAY ACQUIRE PER AGREEMENT WITH THE CONTRACTOR.
7. STEEL PLATE BEAM GUARDRAIL SHALL BE REMOVED AND TRANSPORTED TO A SAFE LOCATION. SPECIAL MEASURES SHALL BE TAKEN AS TO NOT DAMAGE THE RAIL AND POSTS DURING REMOVAL. ONCE THE GUARDRAIL IS REMOVED, NOTIFY BEN FATHAUER (IDOT FIELD TECH) @ (217)548-2295 AND IDOT WORKERS WILL TRANSPORT THE GUARDRAIL TO IDOT FACILITIES WHERE IT WILL BECOME PROPERTY OF THE STATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF THE REMAINING ITEMS.

REMOVAL DETAIL

PARCEL NO. 5318001  
VERNON & NORINE RADEMACHER



BENCHMARK:  
CHISELED SQUARE ON NORTHWEST  
WINGWALL. ELEVATION = 718.107

\* SEE DETAIL OF HMA SURFACE REMOVAL  
- BUTT JOINT  
SHEET 15 OF 41

EXISTING R.C. SLAB BRIDGE  
ON CLOSED ABUTMENTS W/  
CONC. WEARING SURF. & BIT. OVRLY  
33' CLEAR ROADWAY WIDTH  
STA. 577+74  
SKEW. 15° RT. FORWARD  
S.N. 092-0165

PARCEL NO. 5318002  
H. MARK & MARCEY BARTLOW

LEGEND	
	GUARD RAIL REMOVAL
	REMOVE EXISTING CULVERTS
	HMA SURFACE REMOVAL - BUTT JOINT
	REMOVE EXISTING STRUCTURES
	EXISTING BROKEN CONCRETE
	SOIL BORING

FILE NAME =	USER NAME = collierbw	DESIGNED -	REVISED -
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	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/19/2008	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAIL

SCALE: 20 SHEET NO. OF SHEETS STA. 575+00 TO STA. 580+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	11
CONTRACT NO. 70018				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROPOSED GUARDRAIL DETAIL

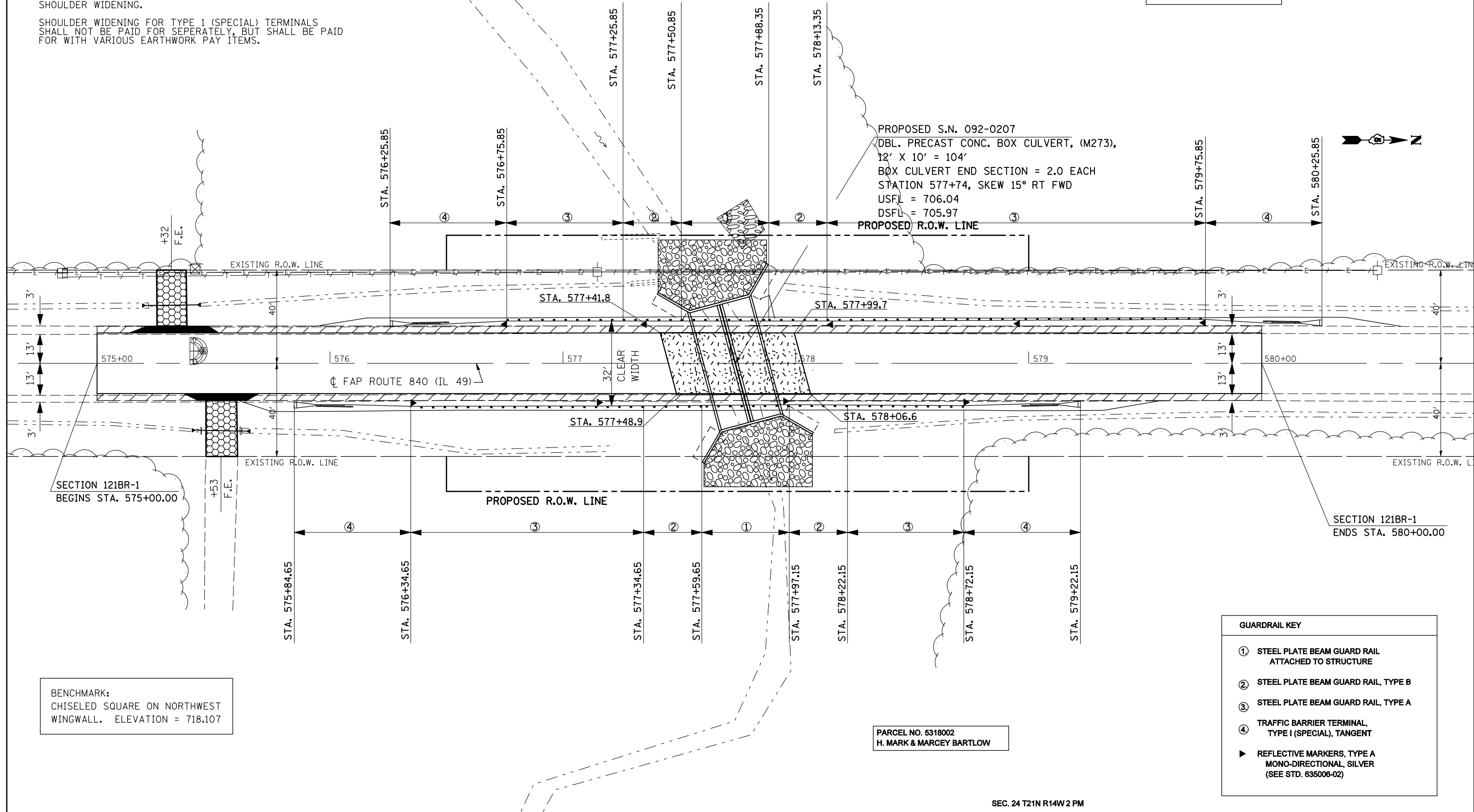
PARCEL NO. 5318001  
VERNON & NORINE RADEMACHER

DETAIL NOTES:

SHOULDER WIDENING FOR TYPE 1, (SPECIAL) TERMINALS SHALL BE CONSTRUCTED PRIOR TO CONSTRUCTION OF NEW GUARDRAIL. SEE STANDARD 630301-04 FOR DETAILS.

NO ROCK, STONES, MILLINGS, OR BROKEN CONCRETE SHALL BE PERMITTED WITHIN A VERTICAL DISTANCE OF 12" FROM THE SURFACE OF THE FINISHED GRADE OF THE SHOULDER WIDENING.

SHOULDER WIDENING FOR TYPE 1 (SPECIAL) TERMINALS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE PAID FOR WITH VARIOUS EARTHWORK PAY ITEMS.



PROPOSED S.N. 092-0207  
DBL. PRECAST CONC. BOX CULVERT, (M273),  
12' X 10' = 104'  
BOX CULVERT END SECTION = 2.0 EACH  
STATION 577+74, SKEW 15° RT FWD  
USFL = 706.04  
DSFL = 705.97

SECTION 121BR-1  
BEGINS STA. 575+00.00

SECTION 121BR-1  
ENDS STA. 580+00.00

BENCHMARK:  
CHISELED SQUARE ON NORTHWEST  
WINGWALL. ELEVATION = 718.107

PARCEL NO. 5318002  
H. MARK & MARCEY BARTLOW

GUARDRAIL KEY	
①	STEEL PLATE BEAM GUARD RAIL ATTACHED TO STRUCTURE
②	STEEL PLATE BEAM GUARD RAIL, TYPE B
③	STEEL PLATE BEAM GUARD RAIL, TYPE A
④	TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL), TANGENT
▶	REFLECTIVE MARKERS, TYPE A MONO-DIRECTIONAL, SILVER (SEE STD. 635006-02)

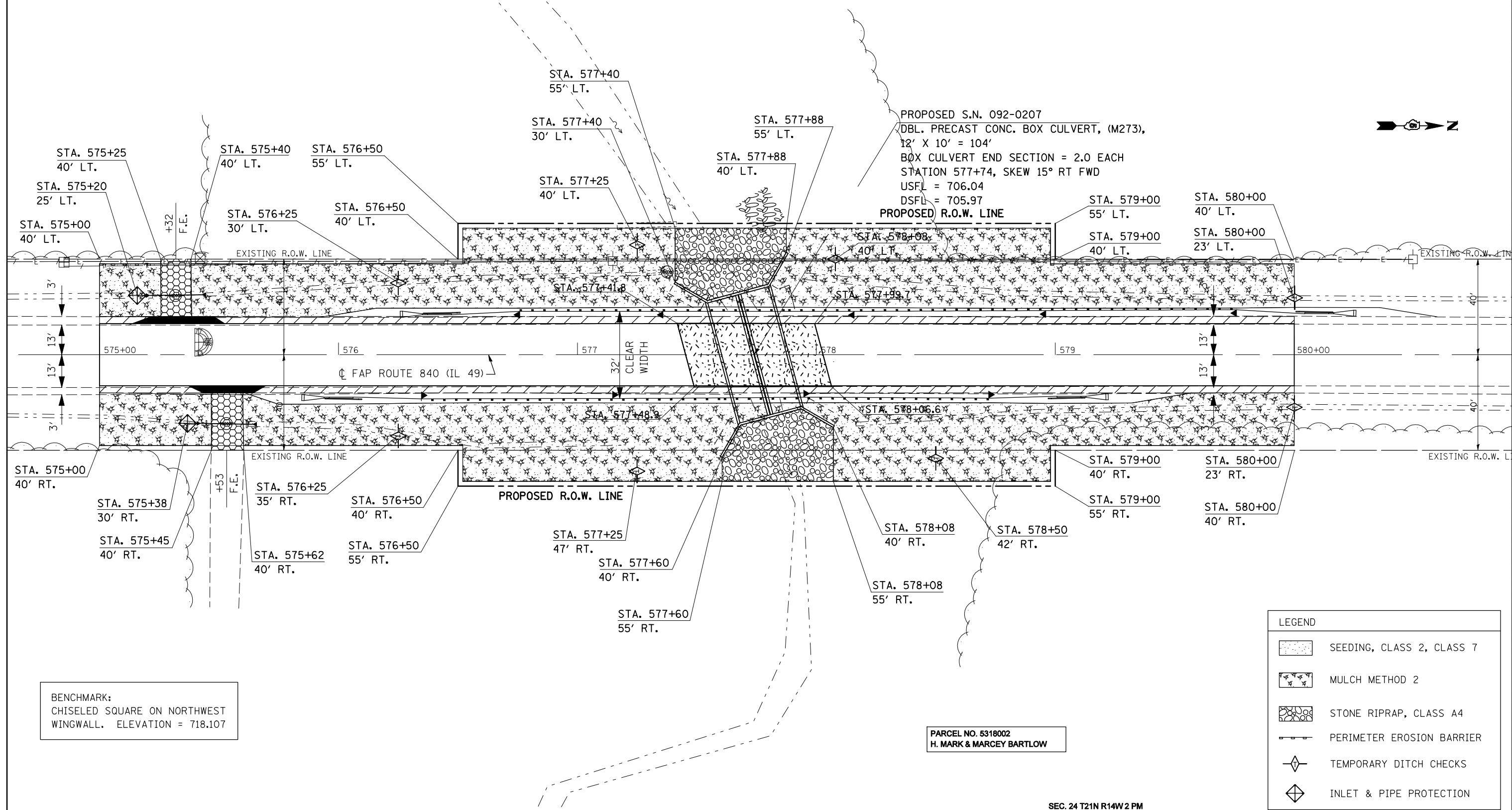
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ct:\projects\d502499 (v8)\2007_dtm\plansh\dgn		DRAWN -	REVISED -			840	121BR-1	VERMILION	44	12
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 70018				
PLOT DATE = 3/19/2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**DETAIL NOTE:**

IT IS THE INTENT THAT CLASS 7 SEEDING BE PLACED ALONG WITH THE CLASS 2 SEEDING AS SUPPLEMENTAL SEEDING TO AID IN ACCELERATED VEGETATION GROWTH.

EROSION CONTROL DETAIL

PARCEL NO. 5318001  
VERNON & NORINE RADEMACHER



BENCHMARK:  
CHISELED SQUARE ON NORTHWEST  
WINGWALL. ELEVATION = 718.107

PARCEL NO. 5318002  
H. MARK & MARCEY BARTLOW

LEGEND	
	SEEDING, CLASS 2, CLASS 7
	MULCH METHOD 2
	STONE RIPRAP, CLASS A4
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECKS
	INLET & PIPE PROTECTION

FILE NAME =	USER NAME = collierbw	DESIGNED -	REVISED -
ct:\projects\4502499 (v8)\2007_dtm\plansh\dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/19/2008	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL DETAIL**

SCALE: SHEET NO. OF SHEETS STA. 575+00 TO STA. 580+00

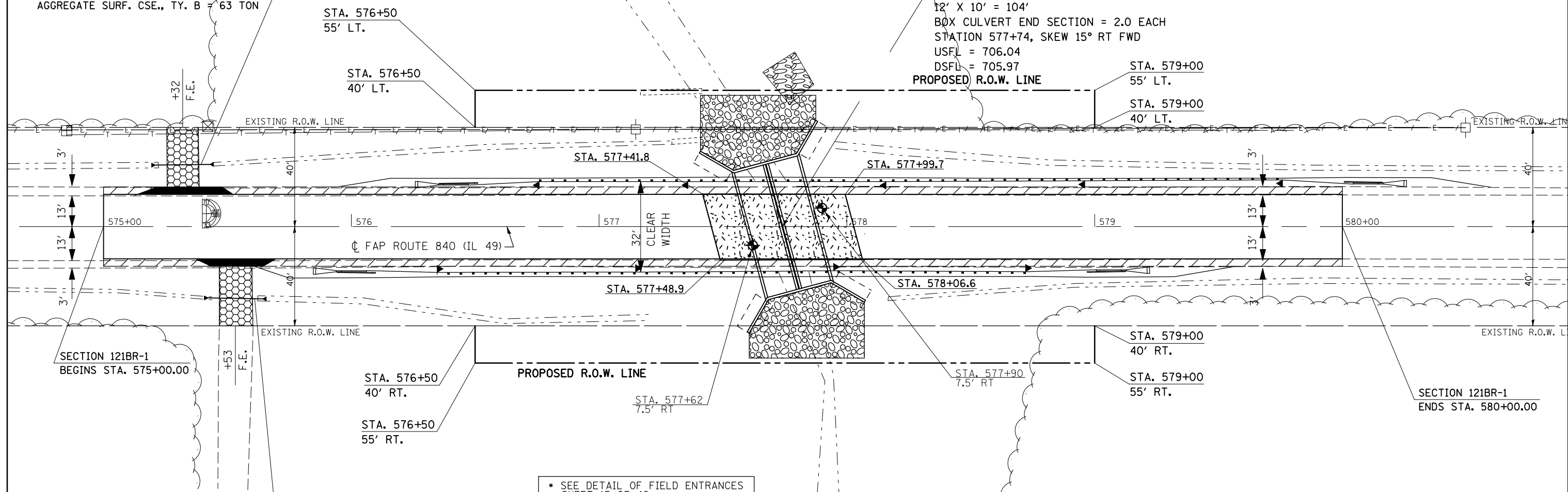
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	13
CONTRACT NO. 70018				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROPOSED PLAN DETAIL

PARCEL NO. 5318001  
VERNON & NORINE RADEMACHER

PIPE CULVERT, CLASS D TYPE I, 15" x 22'  
USFL ELEV. = 24.8' LT STA. 575+21  
DSFL ELEV. = 25.1' LT STA. 575+43  
END SECTIONS, 15" = 2 EACH  
AGGREGATE SURF. CSE., TY. B = 63 TON

PROPOSED S.N. 092-0207  
DBL. PRECAST CONC. BOX CULVERT, (M273),  
12' X 10' = 104'  
BOX CULVERT END SECTION = 2.0 EACH  
STATION 577+74, SKEW 15° RT FWD  
USFL = 706.04  
DSFL = 705.97  
PROPOSED R.O.W. LINE



SECTION 121BR-1  
BEGINS STA. 575+00.00

SECTION 121BR-1  
ENDS STA. 580+00.00

PIPE CULVERT, CLASS D TYPE I, 15" x 22'  
USFL ELEV. = 28.7' RT STA. 575+42  
DSFL ELEV. = 29.1' RT STA. 575+64  
END SECTIONS, 15" = 2 EACH  
AGGREGATE SURF. CSE., TY. B = 63 TON

\* SEE DETAIL OF FIELD ENTRANCES  
SHEET 15 OF 42

- PLAN NOTE(S):**
1. AGGREGATE SHOULDERS, TYPE B, 6" SHALL BE COMPLETED PRIOR TO ROAD BEING OPENED TO TRAFFIC.
  2. USFL & DSFL ELEVATIONS TO BE DETERMINED BY ENGINEER IN FIELD.

BENCHMARK:  
CHISELED SQUARE ON NORTHWEST  
WINGWALL. ELEVATION = 718.107

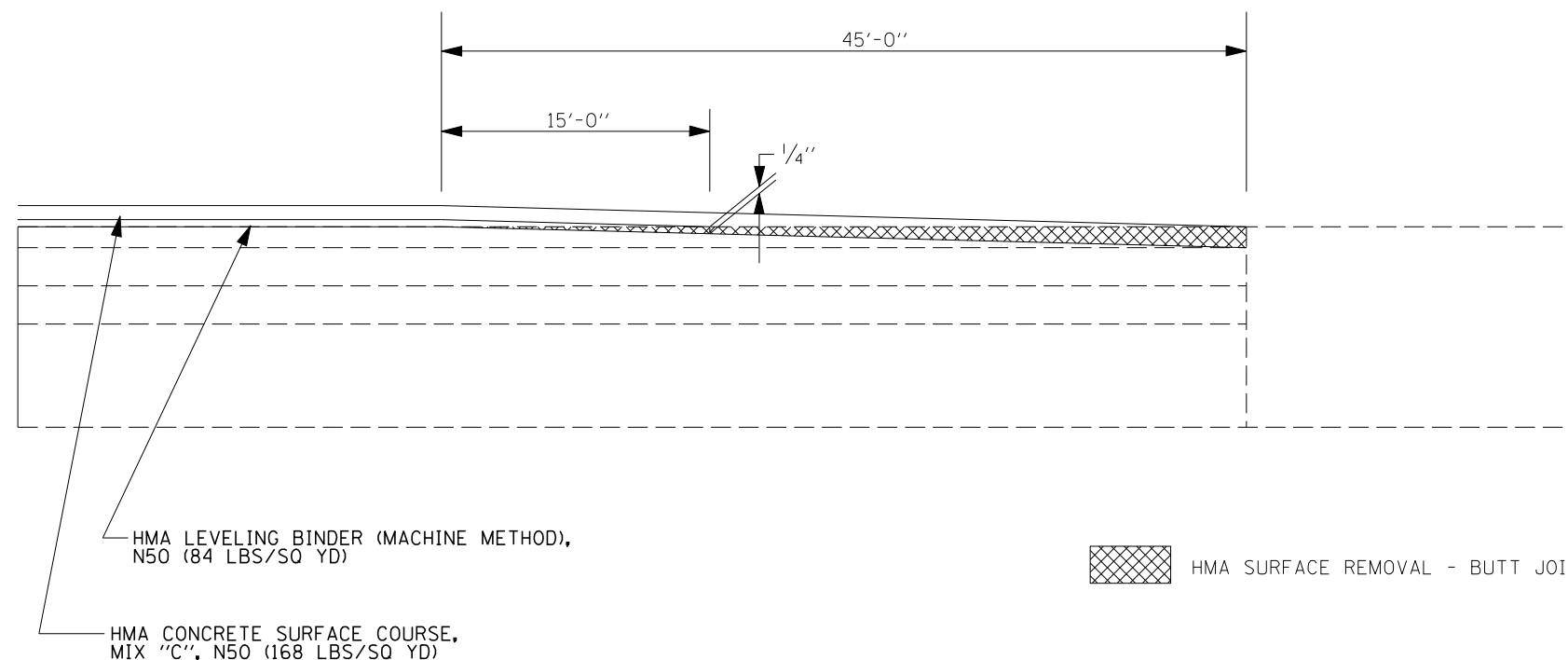
PARCEL NO. 5318002  
H. MARK & MARCEY BARTLOW

LEGEND	
	CLASS D PATCH, TYPE IV, 10"
	AGGREGATE SHOULDERS TYPE B, 6"
	INCIDENTAL HMA SURFACING
	AGGREGATE SURFACE COURSE, TYPE B
	SOIL BORING

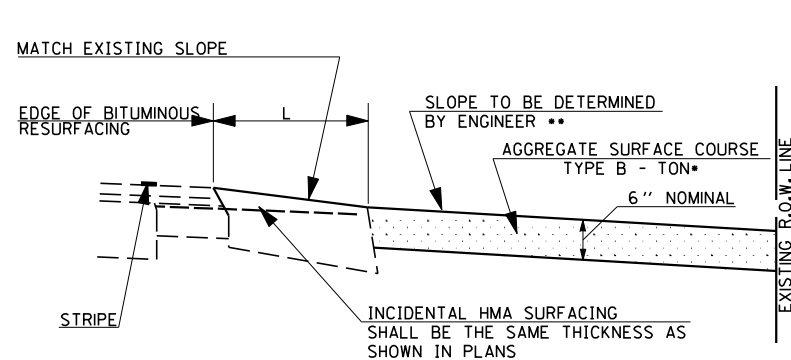
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ct:\projects\4502499 (v8)\2007_dtm\planshedgn		DRAWN -	REVISED -		840	121BR-1	VERMILION	44	14			
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 70018							
PLOT DATE = 3/19/2008		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

# DETAIL OF HMA SURFACE REMOVAL – BUTT JOINT

**STATION 575 + 00.00 TO STATION 575 + 45.00**  
**STATION 579 + 55.00 TO STATION 580 + 00.00**



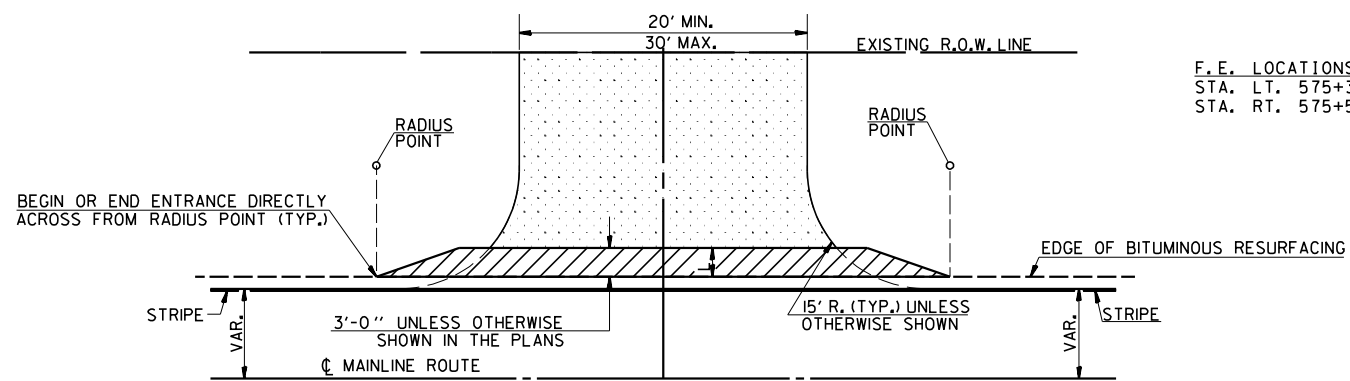
# DETAIL OF FIELD ENTRANCES



**PROFILE**

•• MIN. SLOPE = 1%  
 MAX. SLOPE = 12%

- EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.



**PLAN**

**F.E. LOCATIONS**  
 STA. LT. 575+32  
 STA. RT. 575+53

### GENERAL NOTES

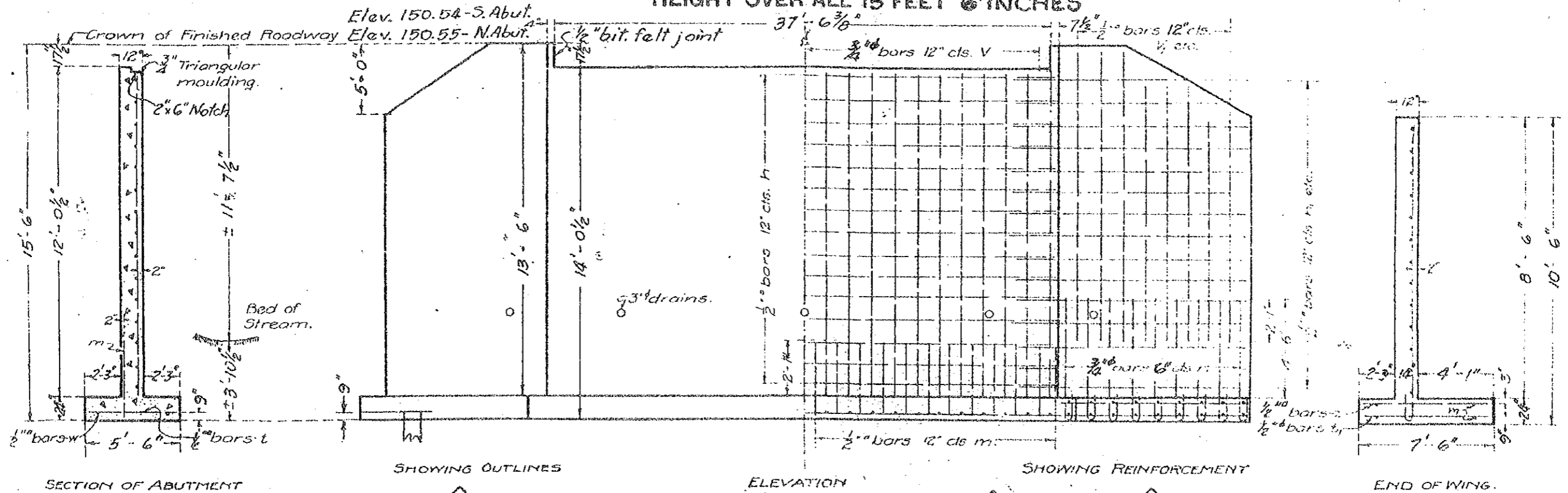
1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. VERNON RADEMACHER SHALL BE CONTACTED PRIOR TO THE REMOVAL OF THE EXISTING F.E. CULVERT.

FILE NAME = c:\projects\d502499 (v8)\typicals.dgn	USER NAME = collierbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BUTT JOINT &amp; ENTRANCE DETAIL</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	840	121BR-1	VERMILION	44	15
		PLOT SCALE = 40.0000' / IN.	CHECKED -		REVISED -										
		PLOT DATE = 3/12/2008	DATE -		REVISED -										
											CONTRACT NO. 70018		ILLINOIS FED. AID PROJECT		



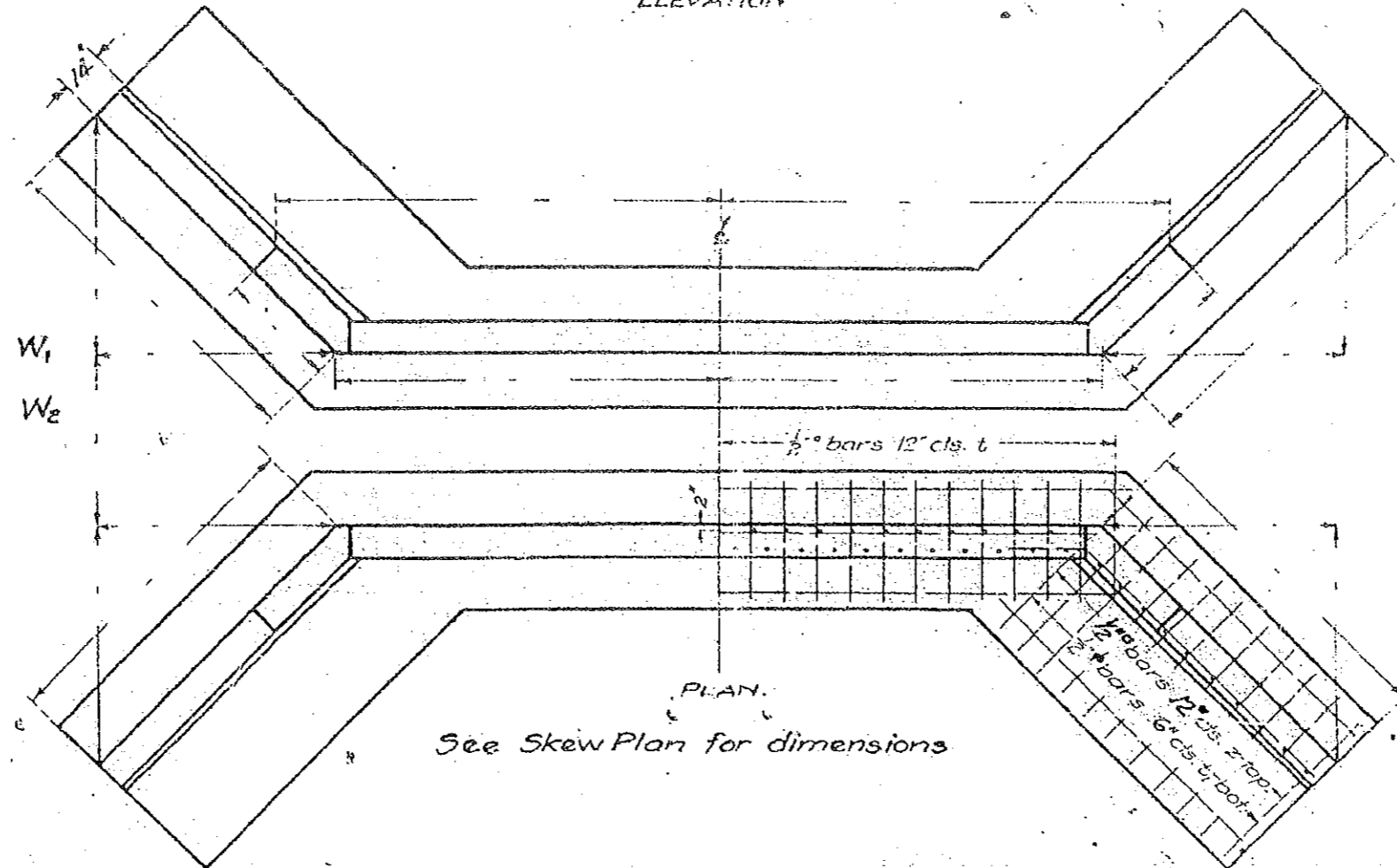


R.C. ABUTMENTS FOR SLAB BRIDGE  
HEIGHT OVER ALL 15 FEET 6 INCHES



Class A concrete shall be used throughout  
Proportions: 1:2 1/2:4.  
All reinforcing steel shall be securely wired in place before concrete is poured.

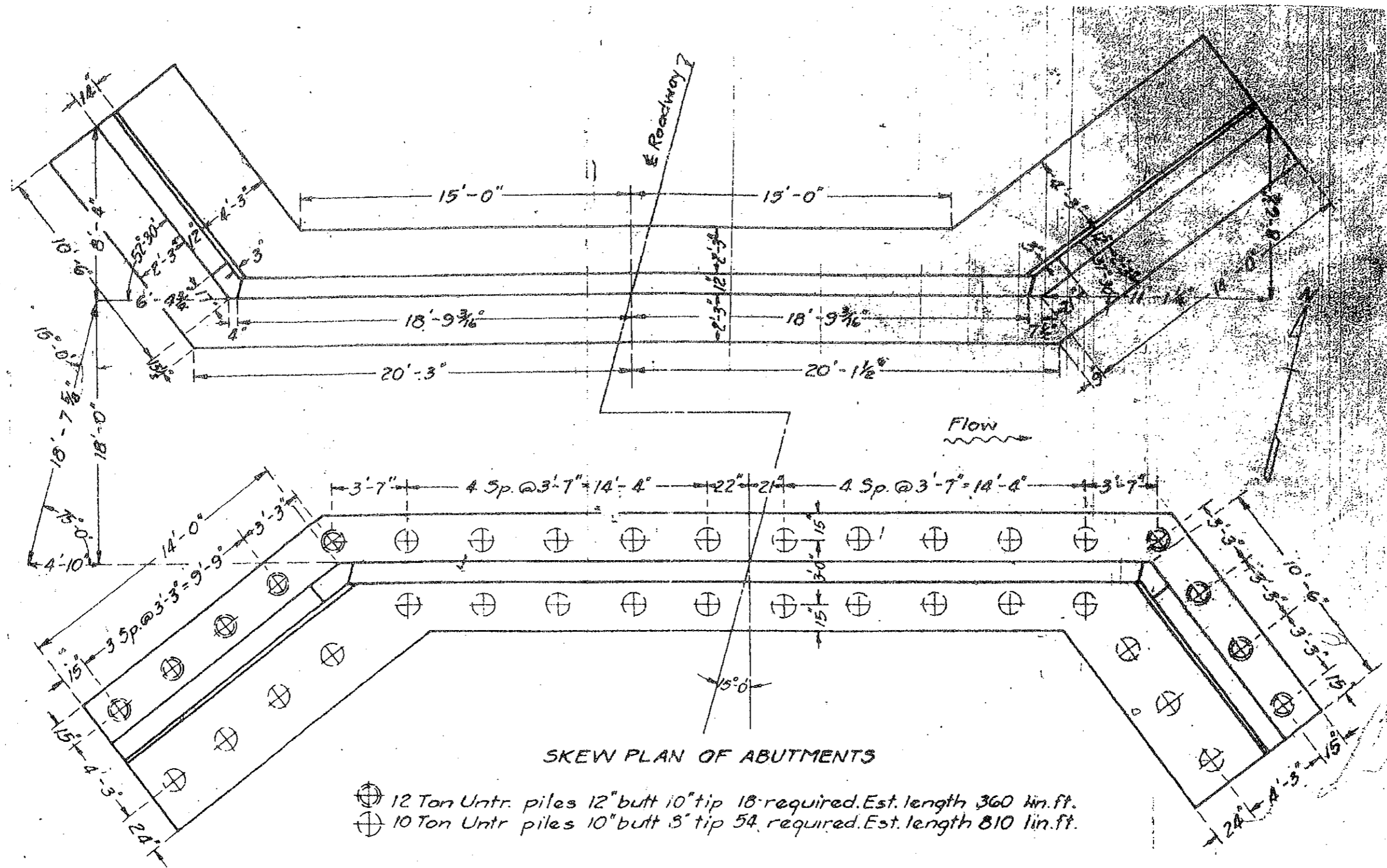
In Long Wing  
3-V, 3-V<sub>2</sub>, 4-V<sub>3</sub>, 4-V<sub>4</sub> h<sub>1</sub>, h<sub>2</sub> W<sub>1</sub>  
In Short Wing  
2-V, 2-V<sub>2</sub>, 3-V<sub>3</sub>, 3-V<sub>4</sub> h<sub>3</sub>, h<sub>4</sub> W<sub>2</sub>



BILL OF MATERIAL.

Bars	No	Size	Length
V	76	3/4"	11'-6"
V <sub>1</sub>	10	1/2"	10'-6"
V <sub>2</sub>	10	1/2"	9'-0"
V <sub>3</sub>	14	1/2"	7'-6"
V <sub>4</sub>	14	1/2"	6'-0"
h	48	1/2"	20'-0"
h <sub>1</sub>	20	1/2"	15'-6"
h <sub>2</sub>	4	1/2"	10'-6"
h <sub>3</sub>	20	1/2"	12'-0"
h <sub>4</sub>	4	1/2"	8'-6"
t	82	1/2"	5'-3"
t <sub>1</sub>	102	1/2"	7'-3"
t <sub>2</sub>	50	1/2"	7'-3"
w	8	1/2"	21'-0"
w <sub>1</sub>	8	1/2"	14'-6"
m	76	1/2"	3'-0"
m <sub>2</sub>	8	1/2"	11'-0"

Reinforcing Steel Lbs. 5790  
Concrete Cu. Yds. 114.0



SKEW PLAN OF ABUTMENTS

⊕ 12 Ton Untr. piles 12" butt 10" tip 18 required. Est. length 360 lin. ft.  
 ⊕ 10 Ton Untr. piles 10" butt 8" tip 54 required. Est. length 810 lin. ft.

FILE NAME =  
 c:\projects\4502499 (v0)\doublebox.dgn

USER NAME = collterby  
 PLOT SCALE = 40,000 / IN.  
 PLOT DATE = 3/1/2008

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE INFORMATION  
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	18
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70018	

\* Information only.  
Dimensions shown along skew  
and may vary.

# CAST-IN-PLACE BOX CULVERT END SECTION DETAIL

## PROPOSED S.N. 092-0207

### STATION 577+74.00

STATION 577+74.00  
BUILT - - - - BY  
STATE OF ILLINOIS  
F.A.P. RTE. 840 SEC. 121BR-1  
LOADING HS 20-44  
STR. NO. 092-0207

#### NAME PLATE

\* See Highway Standard 515001-02 for dimensions and placement.  
\* Name Plate will be paid for at the contract unit price per "EACH" for "NAME PLATES".

#### DESIGN STRESSES

**Cast-In-Place**      **Precast**  
 $f_y = 60,000$  psi       $f_y = 60,000$  psi  
 $f'_c = 3,500$  psi       $f'_c = 5,000$  psi  
 Max. Soil Pressure  
 under footing = 3,061 psf

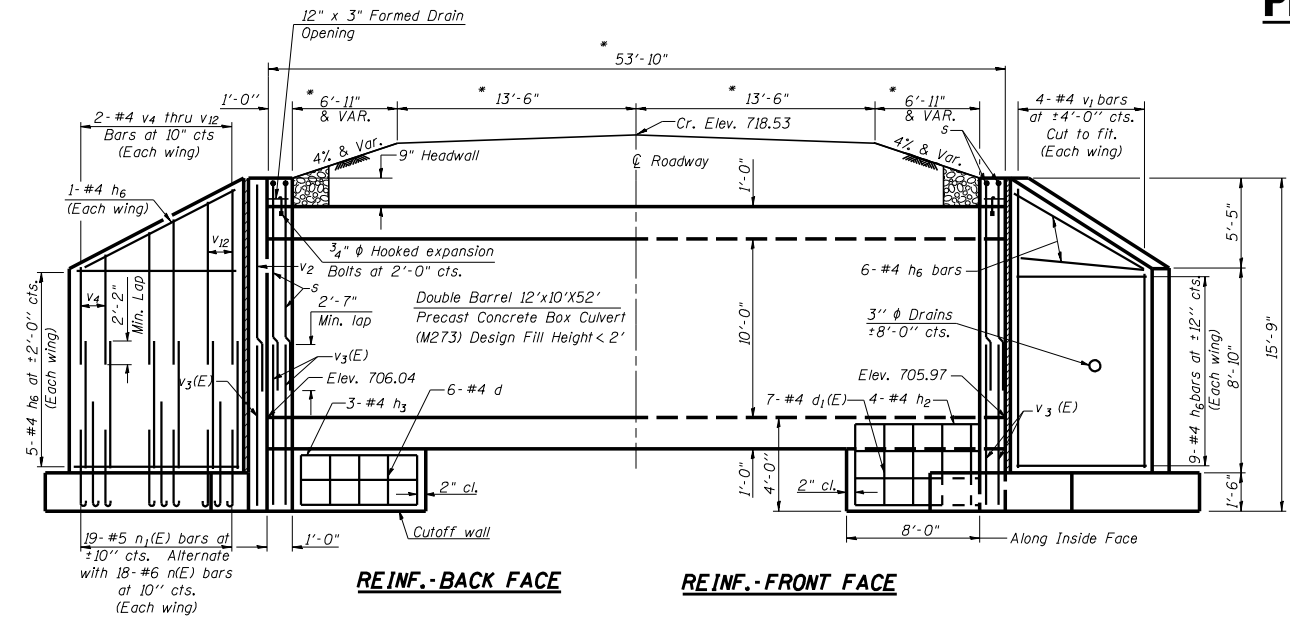
#### LOADING HS 20-44

#### BILL OF MATERIAL (ONE END SECTION) (FOR INFORMATION ONLY)

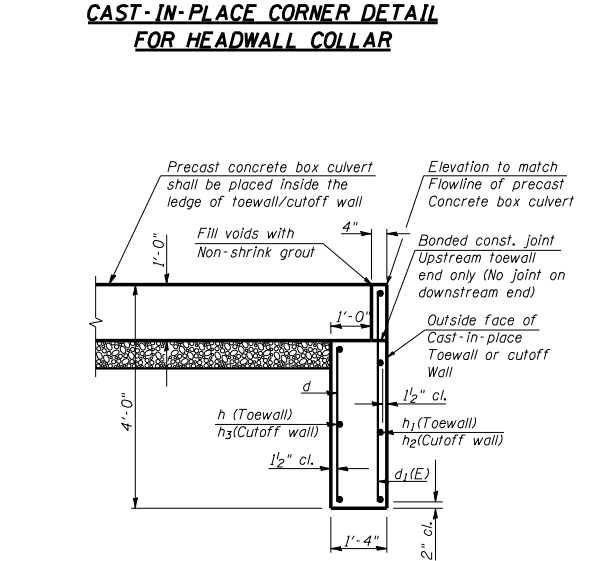
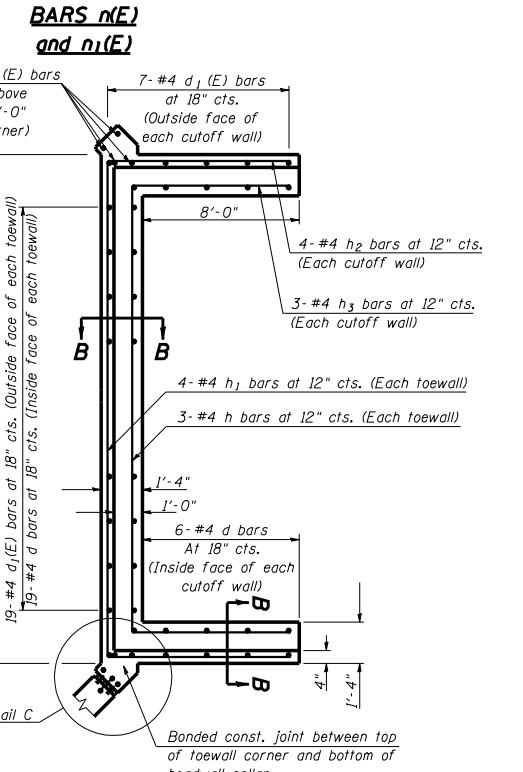
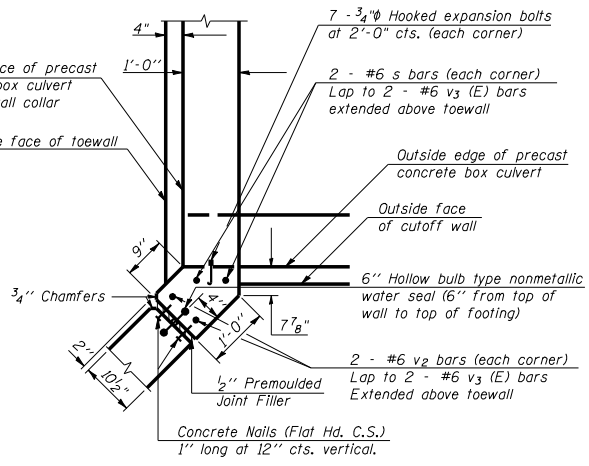
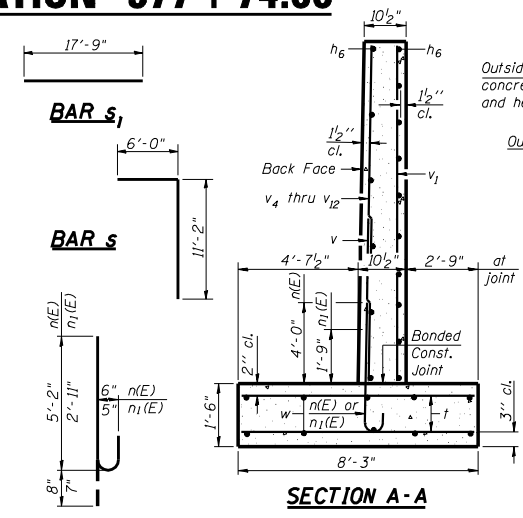
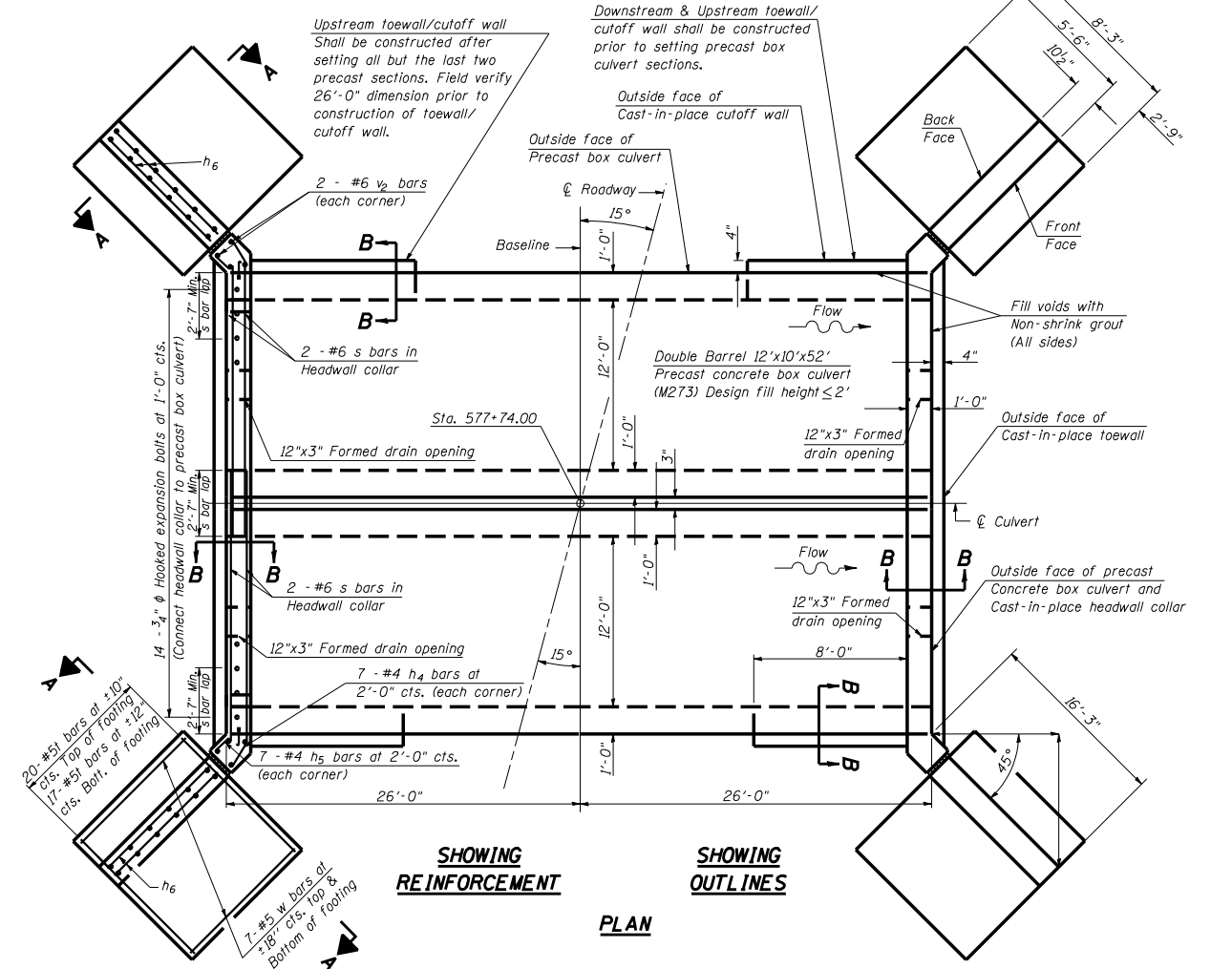
Bar	No.	Size	Length	Shape	
d	31	#4	2'-8"		
d <sub>1</sub> (E)	33	#4	3'-8"		
h	3	#4	27'-3"		
h <sub>1</sub>	4	#4	28'-8"		
h <sub>2</sub>	8	#4	8'-9"		
h <sub>3</sub>	6	#4	8'-0"		
h <sub>4</sub>	14	#4	1'-2"		
h <sub>5</sub>	14	#4	9"		
h <sub>6</sub>	42	#4	15'-6"		
n(E)	36	#6	5'-10"		
n <sub>1</sub> (E)	38	#5	3'-6"		
s	4	#6	17'-2"		
s <sub>1</sub>	2	#6	21'-9"		
t	74	#5	8'-0"		
v	38	#5	5'-9"		
v <sub>1</sub>	8	#4	14'-2"		
v <sub>2</sub>	4	#6	10'-8"		
v <sub>3</sub> (E)	8	#6	5'-8"		
v <sub>4</sub>	4	#4	3'-11"		
v <sub>5</sub>	4	#4	4'-7"		
v <sub>6</sub>	4	#4	5'-4"		
v <sub>7</sub>	4	#4	6'-0"		
v <sub>8</sub>	4	#4	6'-8"		
v <sub>9</sub>	4	#4	7'-5"		
v <sub>10</sub>	4	#4	8'-2"		
v <sub>11</sub>	4	#4	8'-10"		
v <sub>12</sub>	4	#4	9'-0"		
w	28	#5	15'-2"		
Class S1 Concrete				Cu. Yd.	23.0
Reinforcement Bars, Epoxy Coated				Pound	603.0
Reinforcement Bars				Pound	2461.0
Expansion Bolt 3/4" φ				Each	56.0

#### TOTAL BILL OF MATERIALS

Item	Unit	Qty.
Box Culvert End Section	Each	2.0
Name Plate	Each	1.0



#### WINGWALL ELEVATION



#### NOTES

- Course aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culvert.
- The joints between precast segments shall be sealed and all voids filled with a mastic joint sealer. In addition, the sides and top shall be sealed with a 12" wide external sealing band meeting the requirements of ASTM C877 Type III. The joint areas to be sealed shall be cleaned and primed according to the manufacturer's directions prior to placing the seal. The seal shall be protected during backfilling to prevent damage.
- Concrete and Rebar quantities and lengths calculated for the cast-in-place End Sections will vary based on the precast box culverts supplied.
- End Sections will be paid for at the contract unit price each for BOX CULVERT END SECTION, as outlined in Art. 540.08, which prices shall include all concrete, rebar, and all other items necessary to complete the proposed work.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
- The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M273.
- Reinforcement bars designated (E) shall be epoxy coated.
- Areas of the precast box in contact with cast in place concrete shall be sandblasted, cleaned and wetted prior to placing concrete in the field according to Article 503.09(b) of the Standard Specifications.
- The Contractor may substitute cast in place inserts and threaded hooked reinforcement bars for the expansion bolts.
- Drain holes shall be provided in accordance with Art. 503.12.
- Expansion bolts shall be 3/4" φ hooked bolts. The cost of the bolts shall be included in the cost of Box Culvert End Section.
- All dimensions are in FEET (')-INCHES (") unless otherwise noted.
- Voids between the Precast Concrete Box Culvert and the Cast-in-place toewall / cutoff wall shall be filled with Non-shrink grout.
- Drawings not to scale.

FILE NAME =	USER NAME = collierbw	DESIGNED =	REVISED =
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		CHECKED =	REVISED =
		DATE =	REVISED =

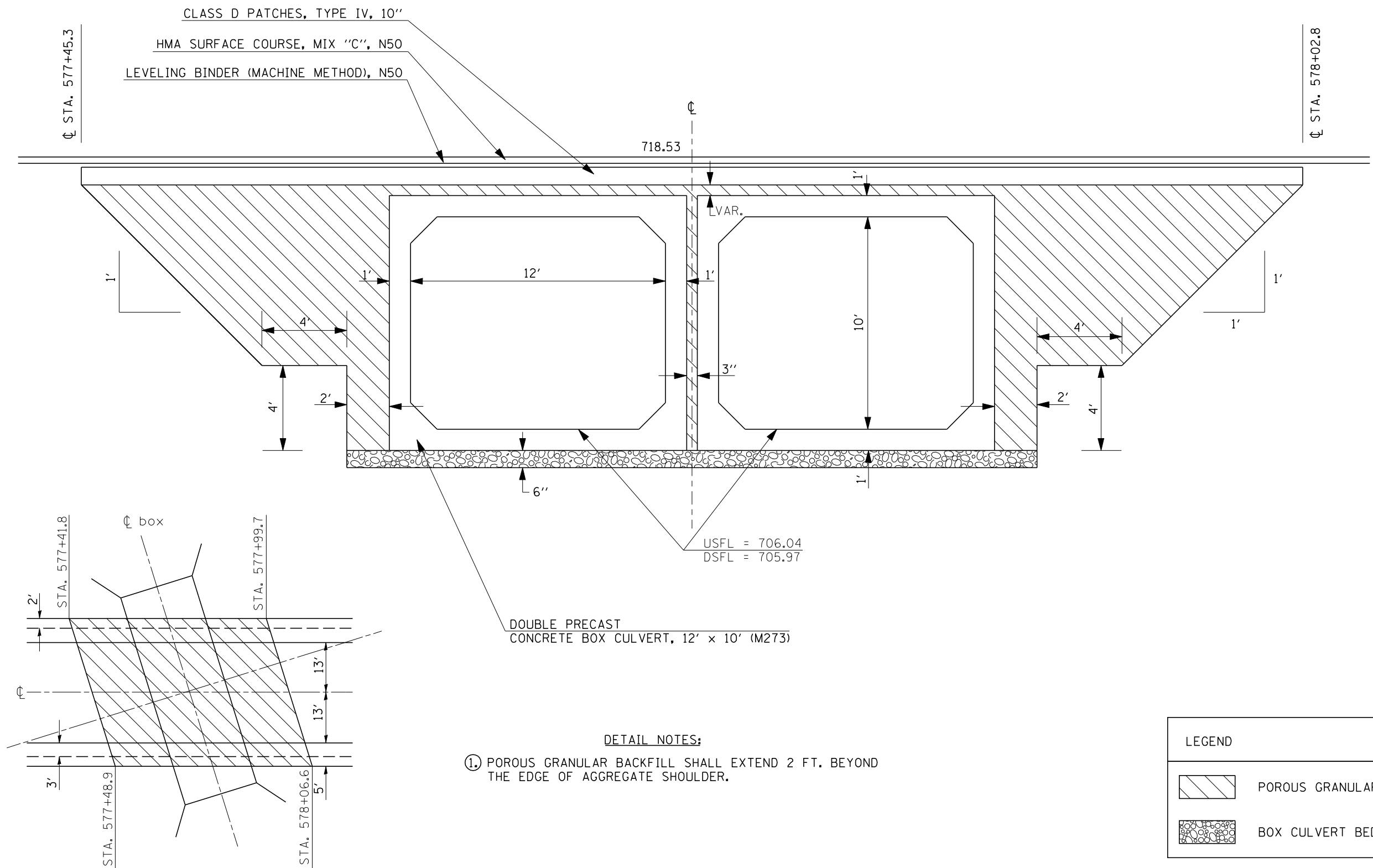
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

#### CAST-IN-PLACE BOX CULVERT END SECTION DETAIL

SCALE:      SHEET NO.      OF SHEETS      STA.      TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	19
CONTRACT NO. 70018				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# DETAIL OF POROUS GRANULAR BACKFILL PROP. S.N. 092-0207



FILE NAME = c:\projects\d502499 (v8)\doublebox.dgn	USER NAME = collierbw	DESIGNED * DRAWN *	REVISED * REVISED *	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAIL OF POROUS GRANULAR BACKFILL</b>	F.A.P. RTE. 840	SECTION 121BR-1	COUNTY VERMILION	TOTAL SHEETS 44	SHEET NO. 20
PLOT SCALE = 48.0000' / IN. PLOT DATE = 3/12/2008						CONTRACT NO. 70018		ILLINOIS FED. AID PROJECT		

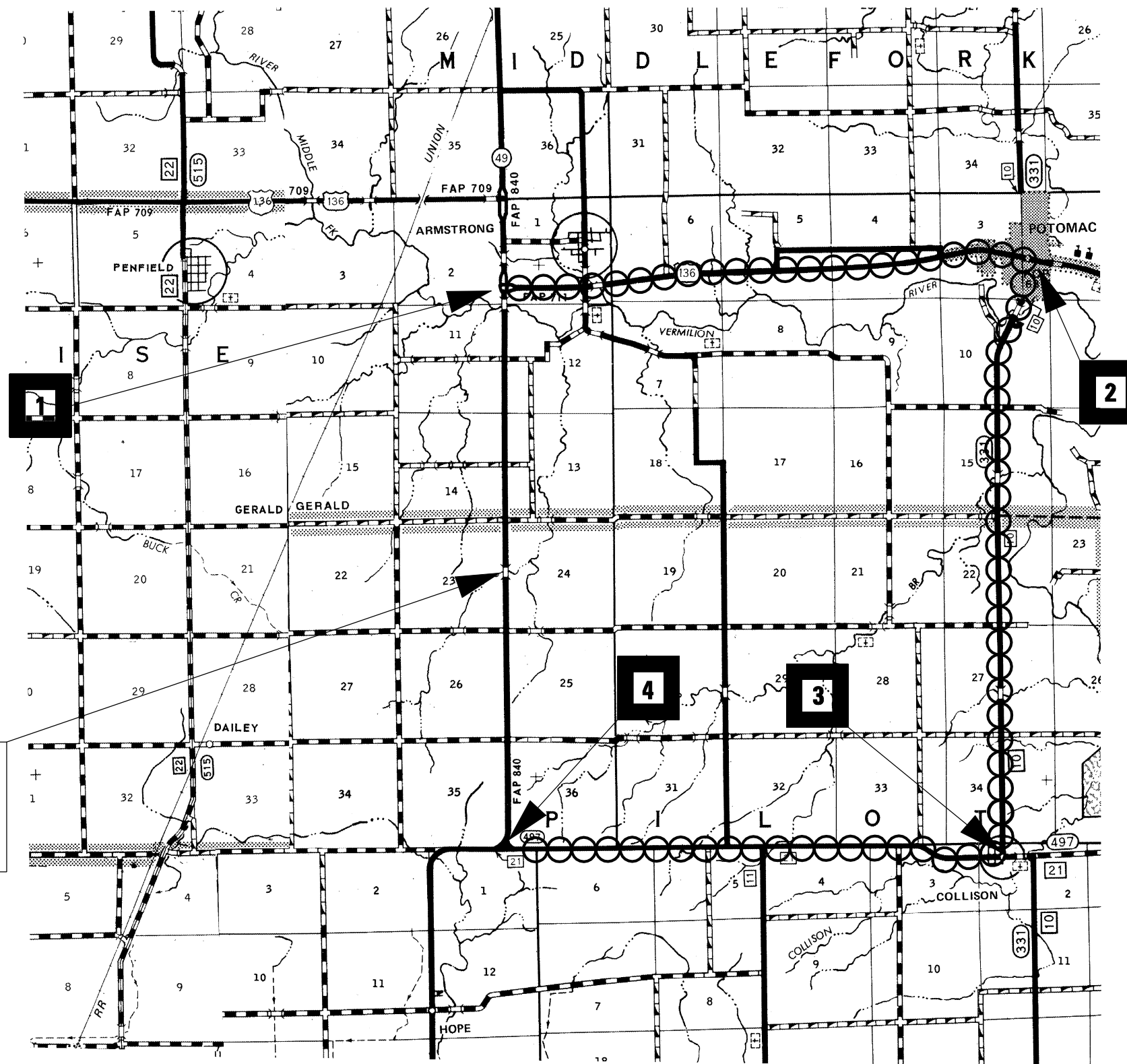


# ROAD CLOSURE DETOUR DETAIL

Marked Detour Route



**DETAIL NOTE:**  
 ALL DETOUR SIGN LOCATIONS ARE SUBJECT TO FIELD ADJUSTMENT IN CASE OF CONFLICTS. ANY ADJUSTMENTS WILL BE COORDINATED BY THE ENGINEER, THE CONTRACTOR, AND THE BUREAU OF OPERATIONS (CLARK PIPER) PRIOR TO ROAD CLOSURE.

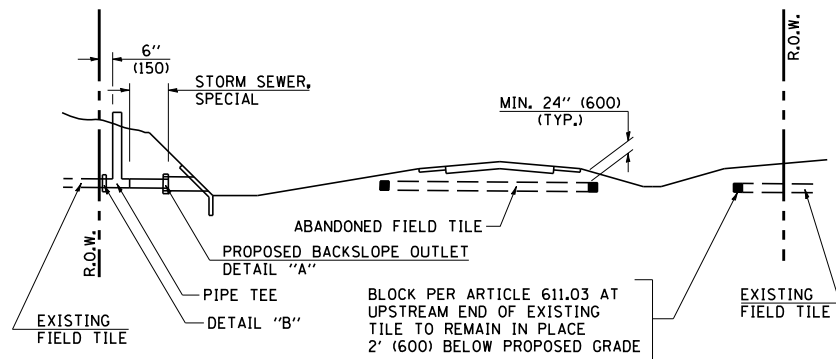


**STRUCTURE IMPROVEMENT**  
 S.N. 092-0165  
 STA. 577 + 74

FILE NAME = c:\projects\d502499 (v8)\coversht.dgn	USER NAME = collierbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ROAD CLOSURE DETOUR DETAIL</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -				840	121BR-1	VERMILION	44	22
PLOT DATE = 3/19/2008	CHECKED -	REVISED -	DATE -	SCALE: N / A	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 70018				
							ILLINOIS FED. AID PROJECT				

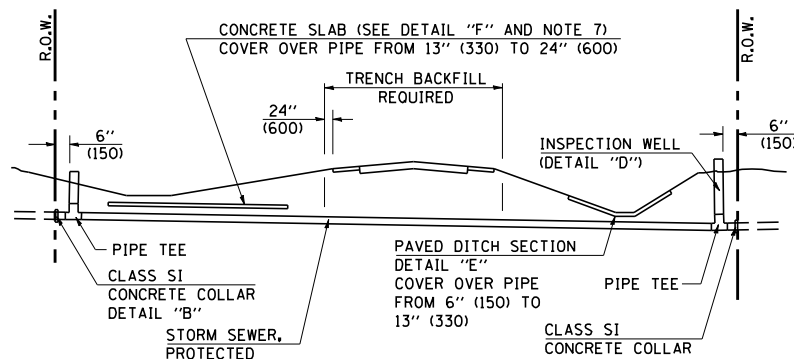






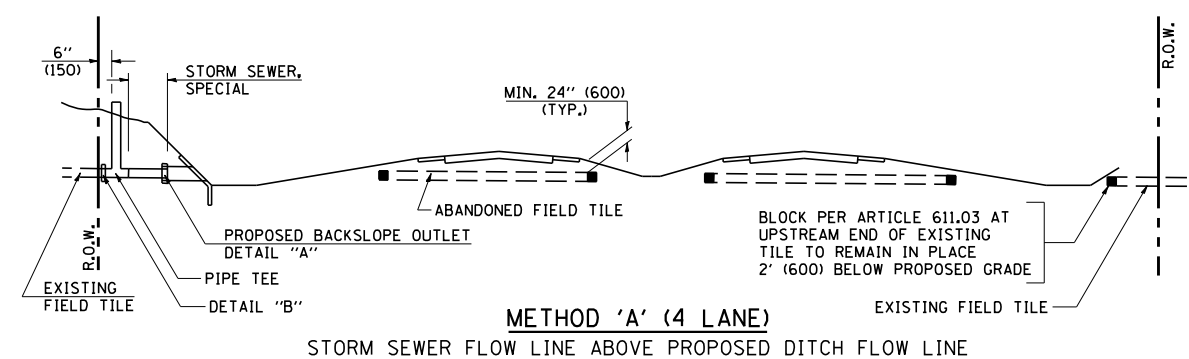
**METHOD 'A' (2 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



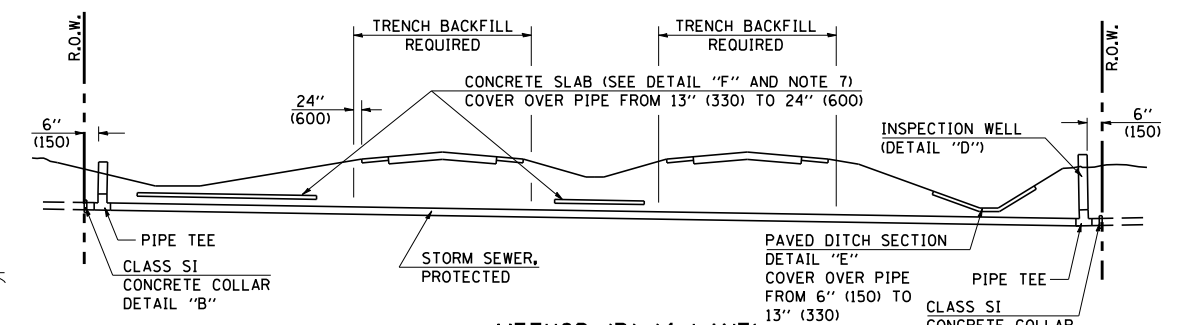
**METHOD 'B' (2 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



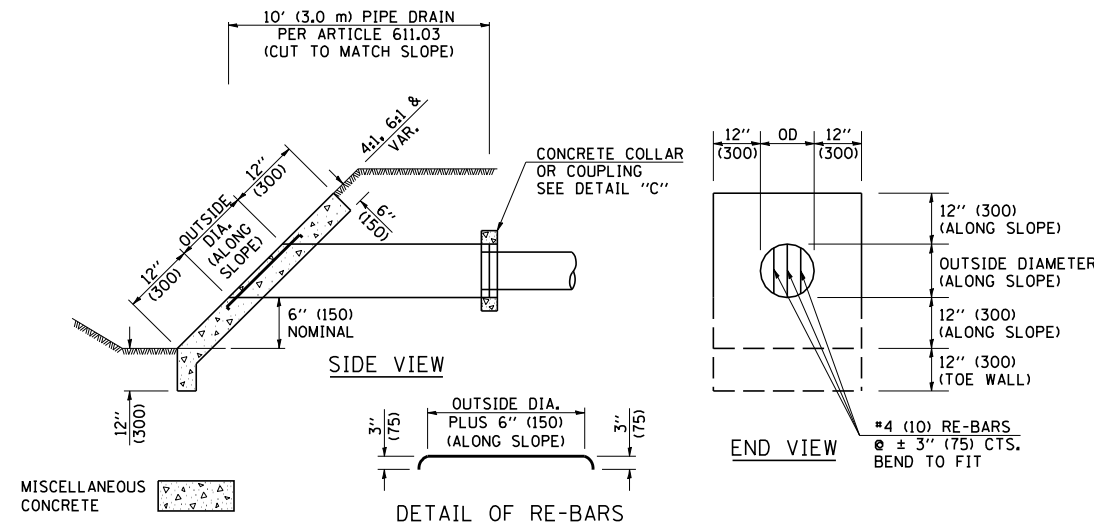
**METHOD 'A' (4 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

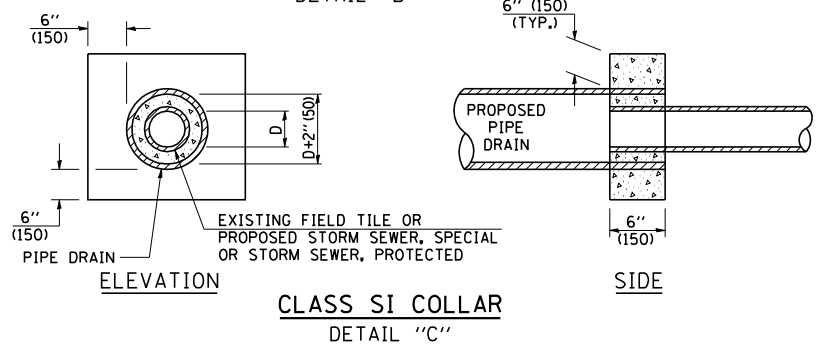
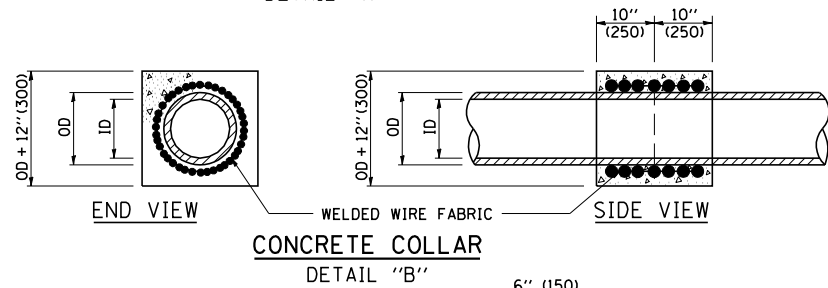


**METHOD 'B' (4 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



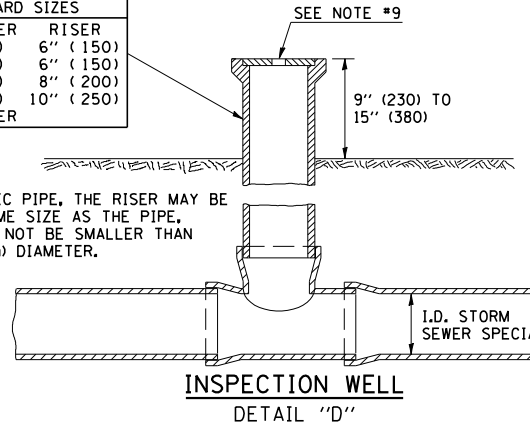
**HEADWALL FOR BACKSLOPE OUTLET DETAIL 'A'**



**CLASS SI COLLAR DETAIL 'C'**

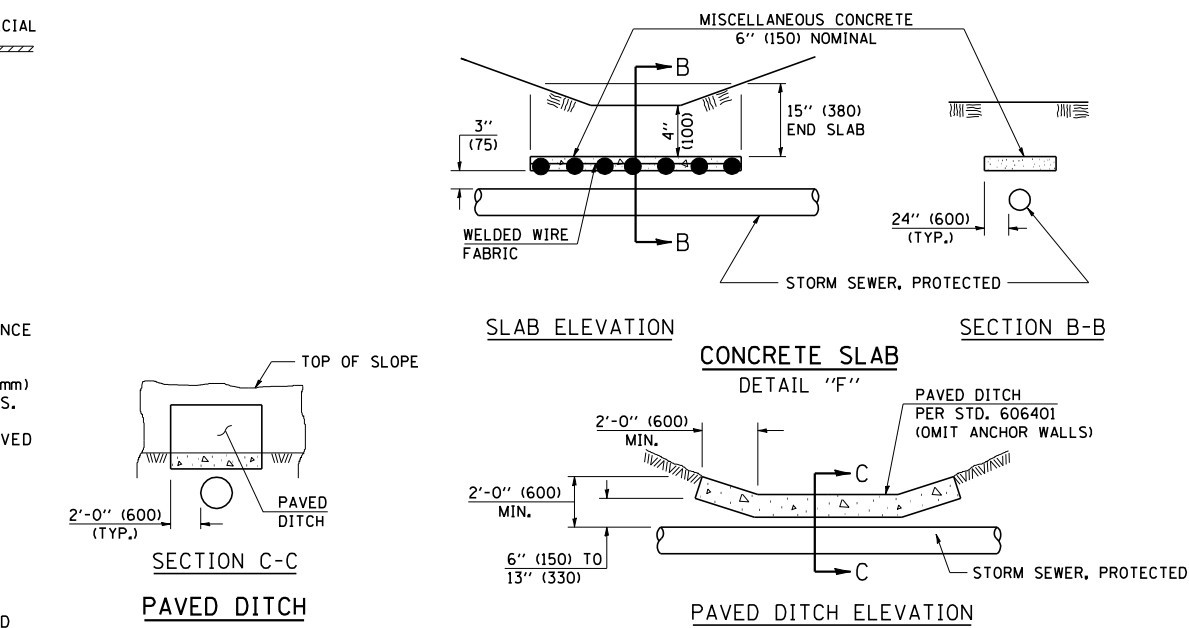
CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	

FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



**GENERAL NOTES**

- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 61101011A**

FILE NAME =	USER NAME = collierbw	DESIGNED -	REVISED - 11/06
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

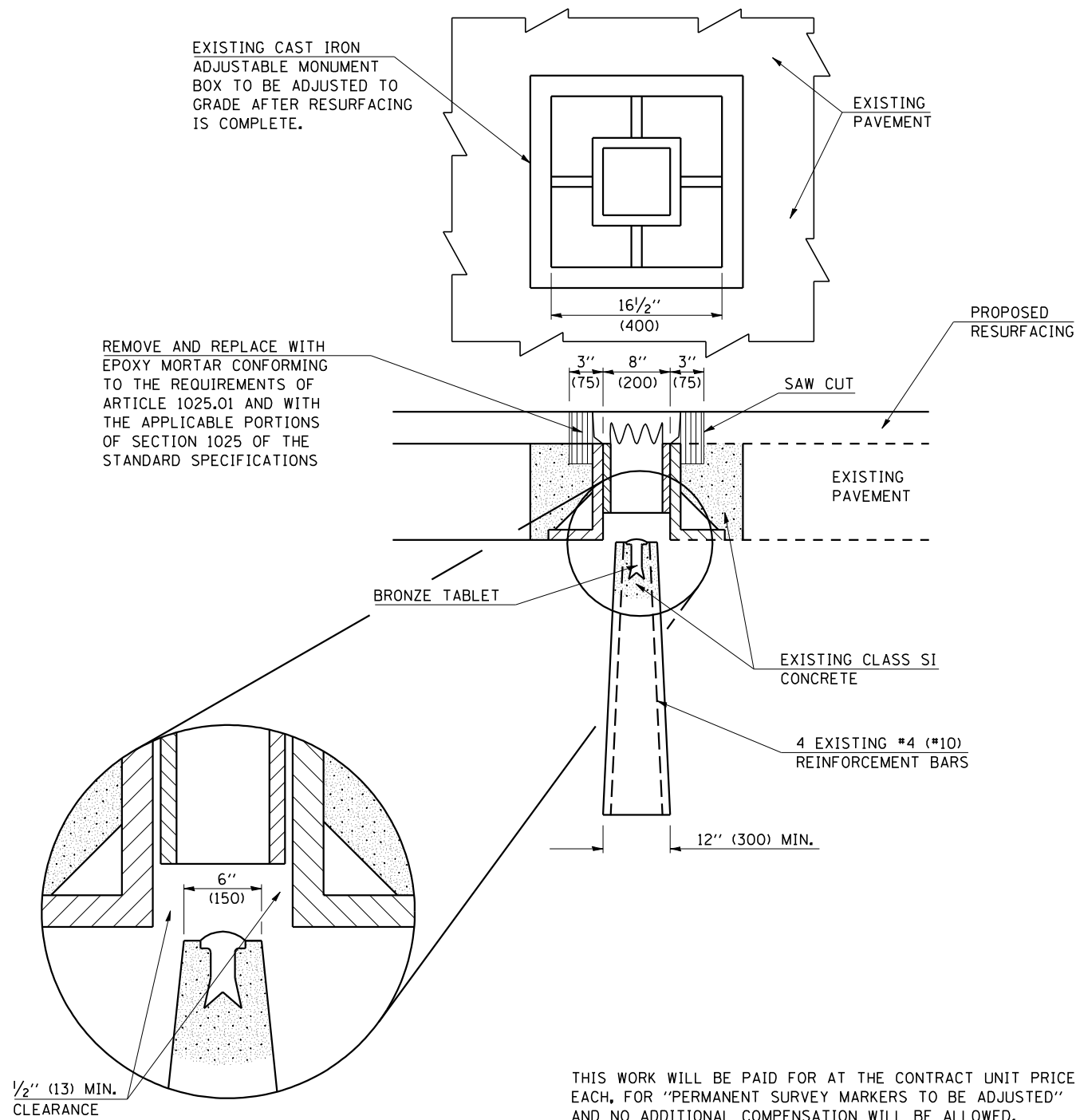
**FIELD TILE SYSTEMS (TREATMENT OF EXISTING)**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	24
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 70018	

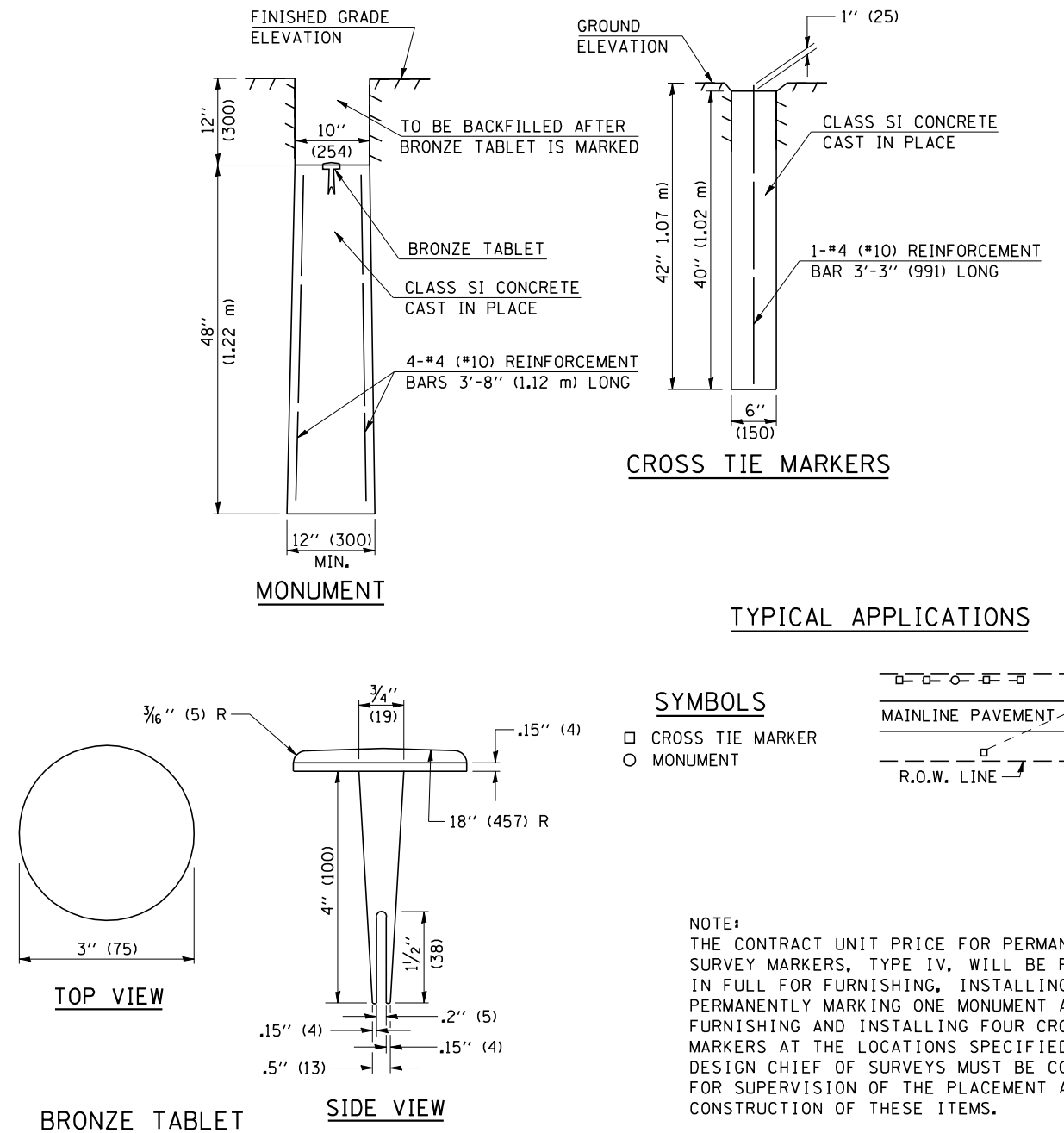
# 66700110 – PERMANENT SURVEY MARKERS TO BE ADJUSTED

TO BE INSTALLED FOR PRESERVING EXISTING CAST IRON PERMANENT SURVEY MARKERS, TYPE III



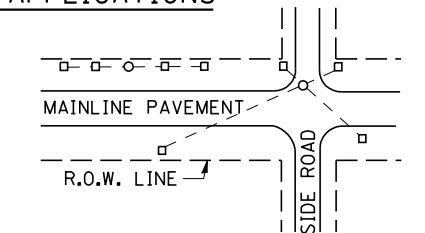
# 66700505 – PERMANENT SURVEY MARKERS, TYPE IV

TO BE INSTALLED IN PAVEMENT OR TURF AREAS WITHIN THE RIGHT-OF-WAY FOR PRESERVING LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS) UNDER DIRECTION OF THE CHIEF OF SURVEYS



### TYPICAL APPLICATIONS

- SYMBOLS**
- CROSS TIE MARKER
  - MONUMENT



**NOTE:**  
THE CONTRACT UNIT PRICE FOR PERMANENT SURVEY MARKERS, TYPE IV, WILL BE PAYMENT IN FULL FOR FURNISHING, INSTALLING, AND PERMANENTLY MARKING ONE MONUMENT AND FURNISHING AND INSTALLING FOUR CROSS TIE MARKERS AT THE LOCATIONS SPECIFIED. THE DESIGN CHIEF OF SURVEYS MUST BE CONTACTED FOR SUPERVISION OF THE PLACEMENT AND CONSTRUCTION OF THESE ITEMS.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = collierbw	DESIGNED -	REVISED - 11/06
ct:\projects\d502499 (v8)\typicals.dgn		DRAWN -	REVISED -
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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

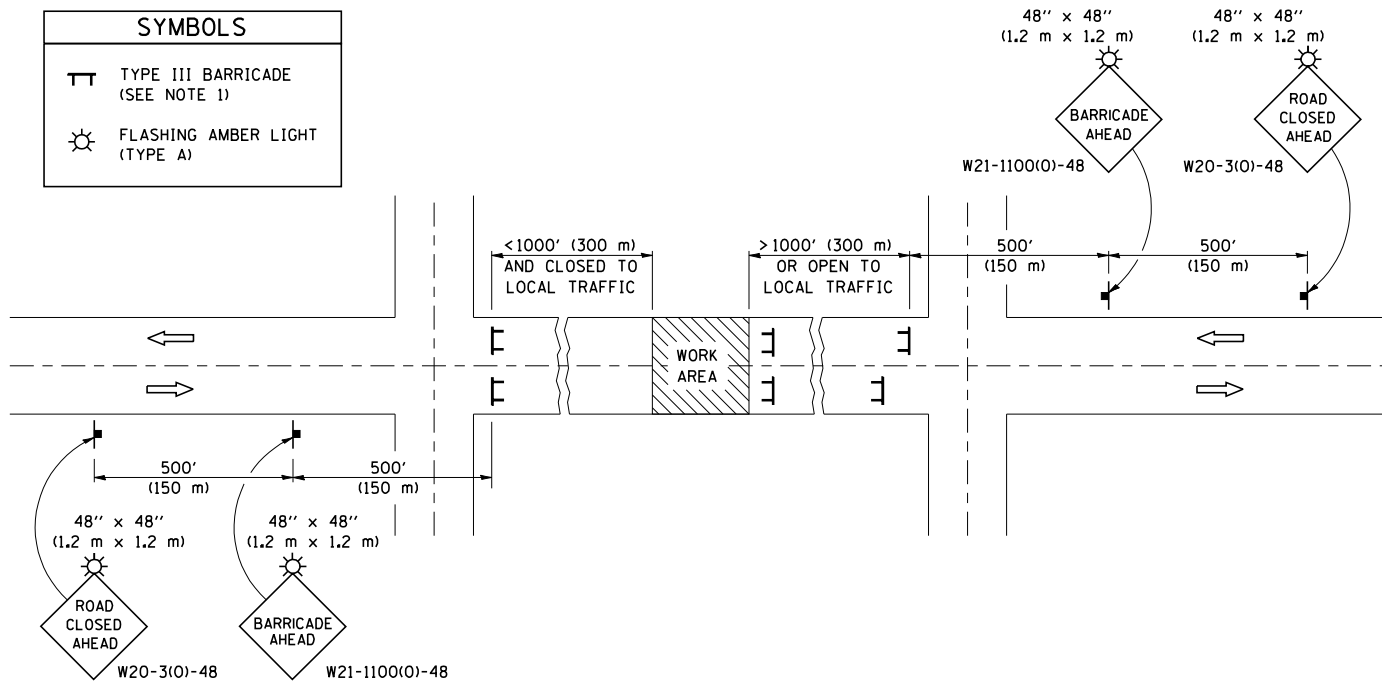
<b>PERMANENT SURVEY MARKERS (TYPE IV AND ADJUSTED)</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

<b>DISTRICT 5 DETAIL NO. 66700AAA</b>				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	25
CONTRACT NO. 70018				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# ROAD CLOSURE

# SIDEROAD / STREET CLOSURE

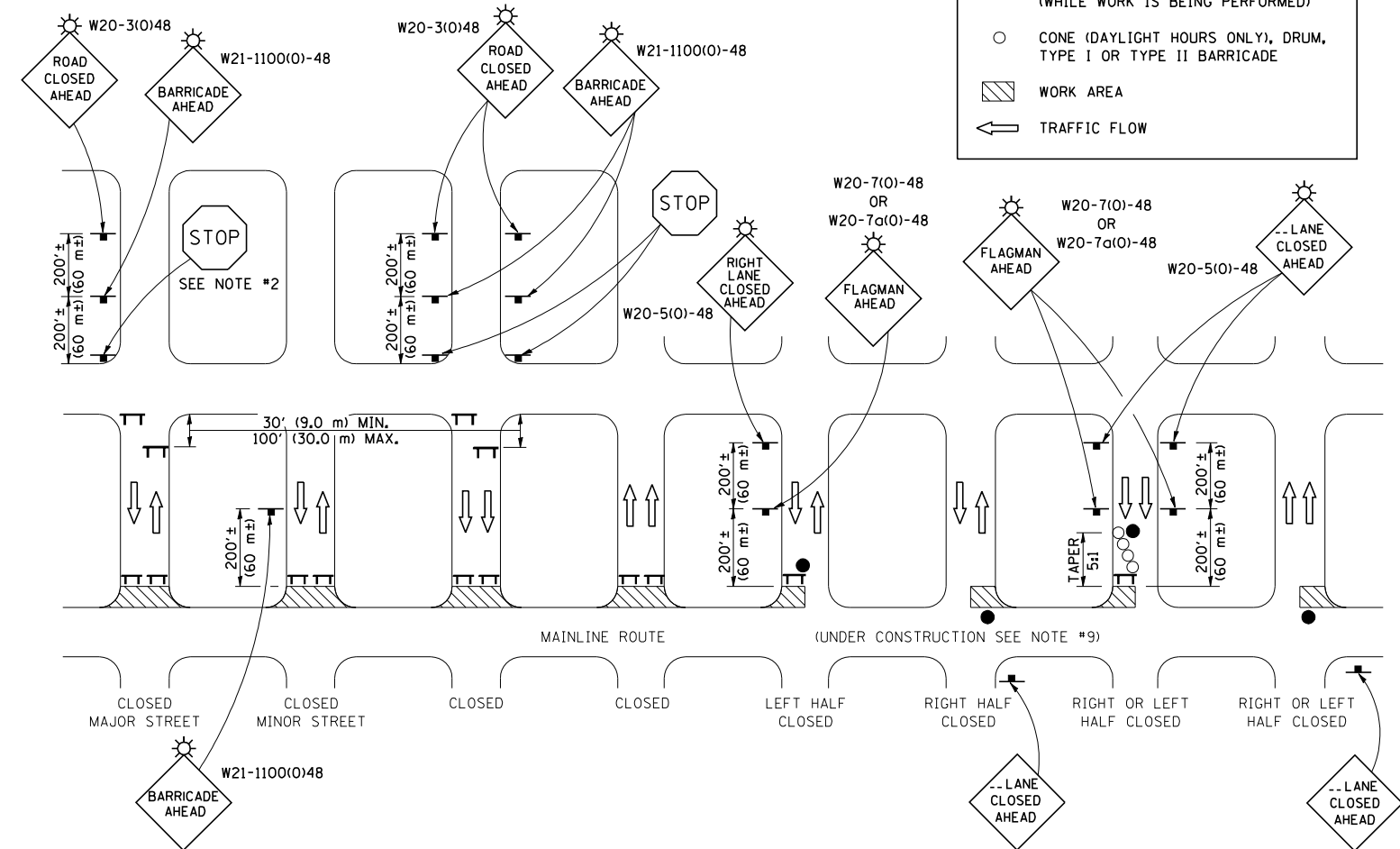
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



### GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONES (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



### GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 702001 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS INVOLVING THE RECONSTRUCTION OF ALL APPLICABLE SIDE STREETS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

### DISTRICT 5 DETAIL NO. 7020000

FILE NAME =	USER NAME = collierbw	DESIGNED -	REVISED - 11/06
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		CHECKED -	REVISED -
		DATE -	REVISED -

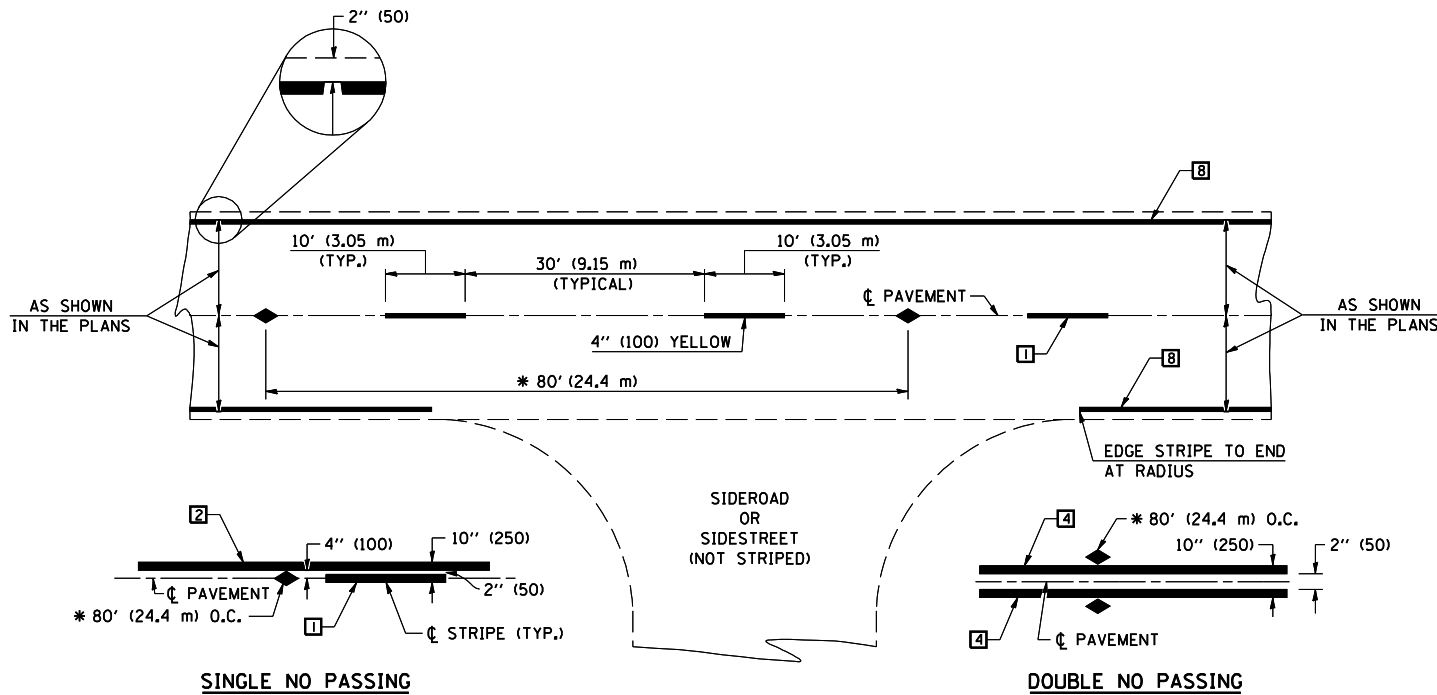
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES  
(ROAD & SIDEROAD/STREET CLOSURES)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	26
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 70018



\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

**TWO LANE/TWO WAY**

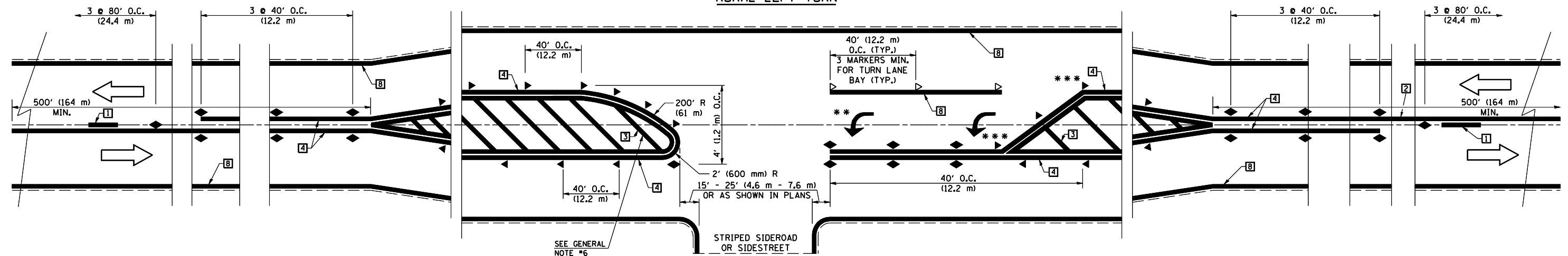
**TYPICAL PAVEMENT MARKING LEGEND**

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

**TYPICAL PAVEMENT MARKERS LEGEND**

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

**RURAL LEFT TURN**



\*\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.  
 \*\* TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = collierbw	DESIGNED -	REVISED - 11/06
ct:\projects\d502499 (v8)\typicals.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

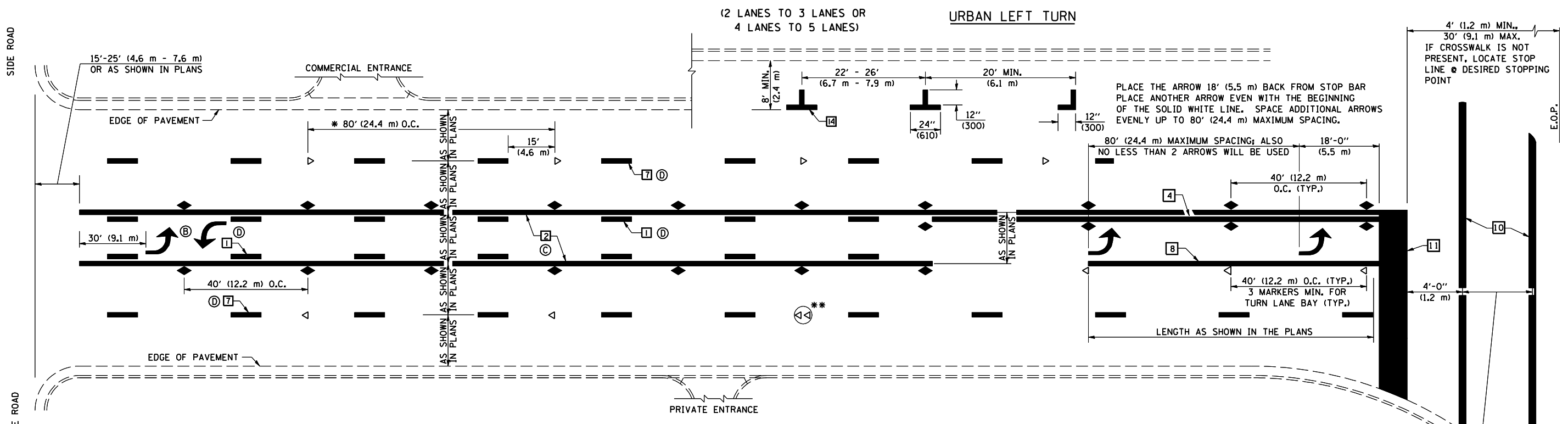
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. 7800AAA**

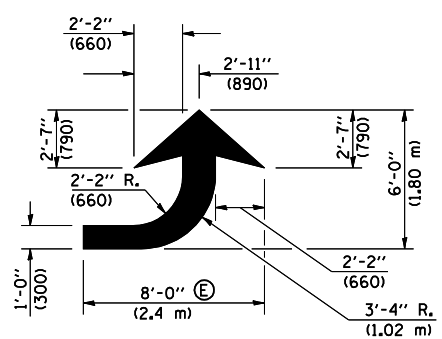
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	27
CONTRACT NO. 70018				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



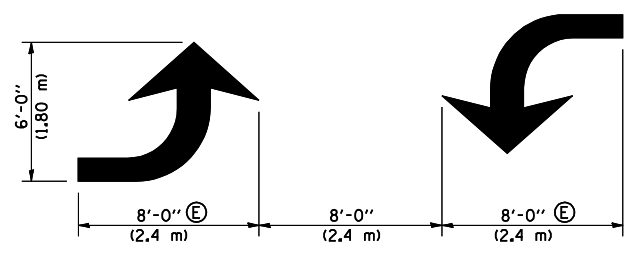
\* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

- GENERAL NOTES:**
- ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
  - ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
  - ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
  - ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)

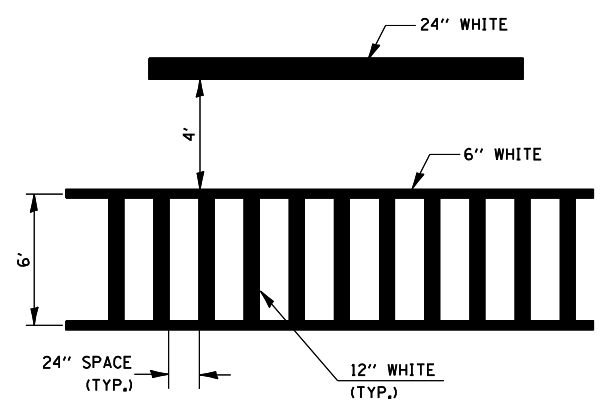


**LEFT ARROW**  
 REVERSE FOR RIGHT ARROW  
 AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
 (WHITE)

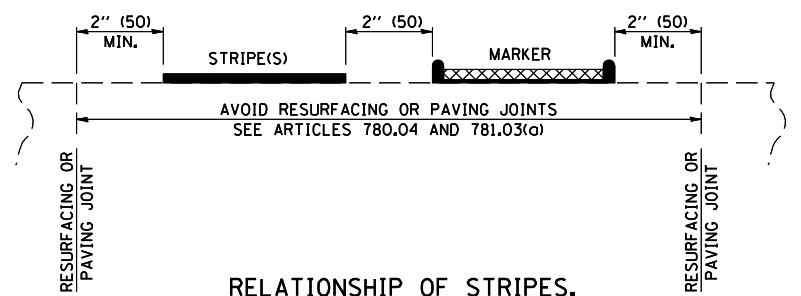


**TYPICAL DOUBLE TURN ARROWS (WHITE)**

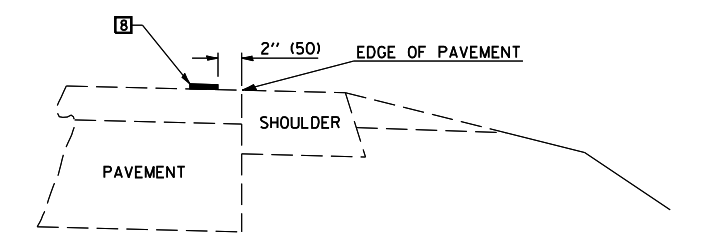
**BLOOMINGTON-NORMAL CITY LIMITS ONLY**



**TYPICAL SPACING FOR CROSSWALKS & STOP BARS**



**RELATIONSHIP OF STRIPES, MARKERS AND JOINTS**



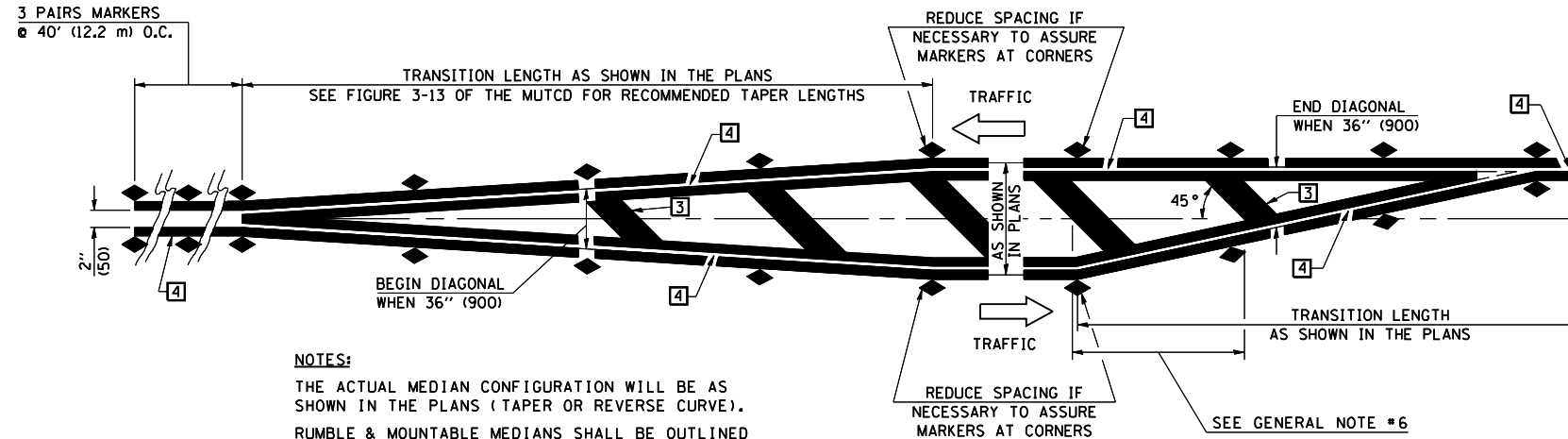
**RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT**  
 (SAFETY SHOULDER OR PAVED SURFACE)  
 SEE ARTICLE 780.04

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 7800AAA**

FILE NAME = c:\projects\d502499 (v8)\typicals.dgn	USER NAME = collierbw	DESIGNED - DRAWN -	REVISED - REVISED -	11/06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>		F.A.P. RTE. 840	SECTION 121BR-1	COUNTY VERMILION	TOTAL SHEETS 44	SHEET NO. 28
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISOR -	DATE -	SCALE:		SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.	CONTRACT NO. 70018		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = 3/12/2008	DATE -	REVISOR -	DATE -									



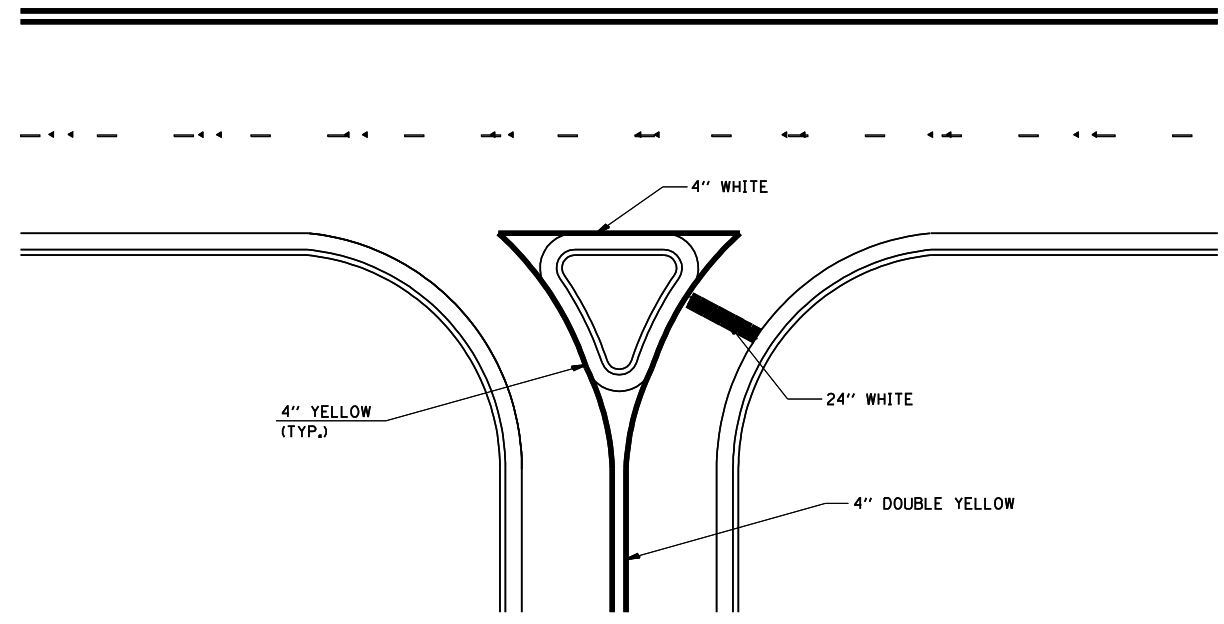


**NOTES:**  
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).  
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

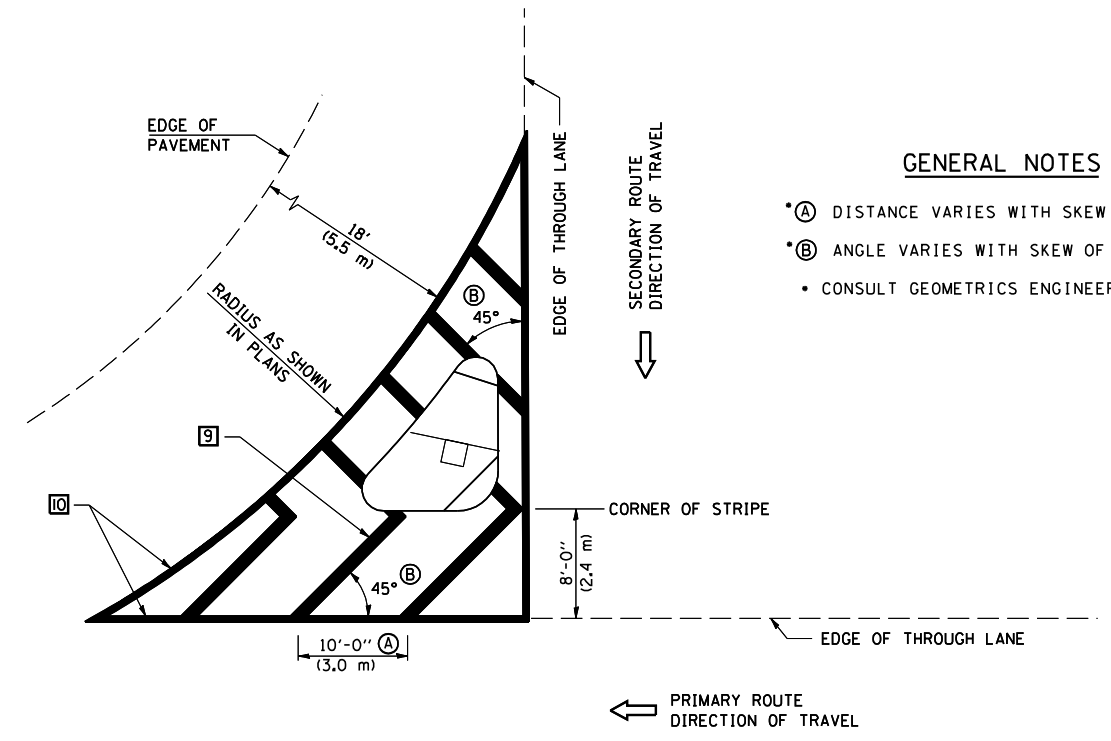
**TYPICAL MEDIAN TRANSITIONS**

**GENERAL NOTES**

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,  
 < 30 MPH USE 15' (< 50 km/h USE 4.5 m)  
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)  
 > 45 MPH USE 30' (> 75 km/h USE 9.0 m)



**RIGHT IN - RIGHT OUT ACCESS**



**GENERAL NOTES**

- \*A DISTANCE VARIES WITH SKEW OF INTERSECTION.
- \*B ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

**ISLAND**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME = c:\projects\d502499 (v8)\typicals.dgn	USER NAME = collierbw	DESIGNED -	REVISED - 11/06
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/12/2008	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
 (RURAL & URBAN APPLICATIONS)**

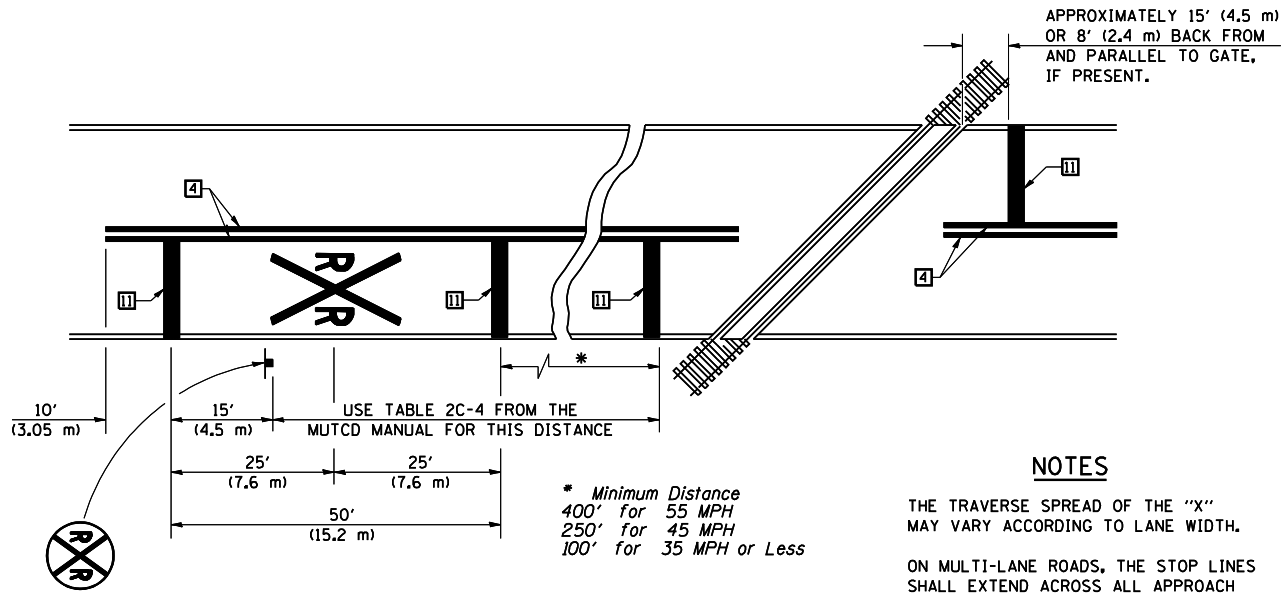
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. 7800AAA**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	29
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70018	

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

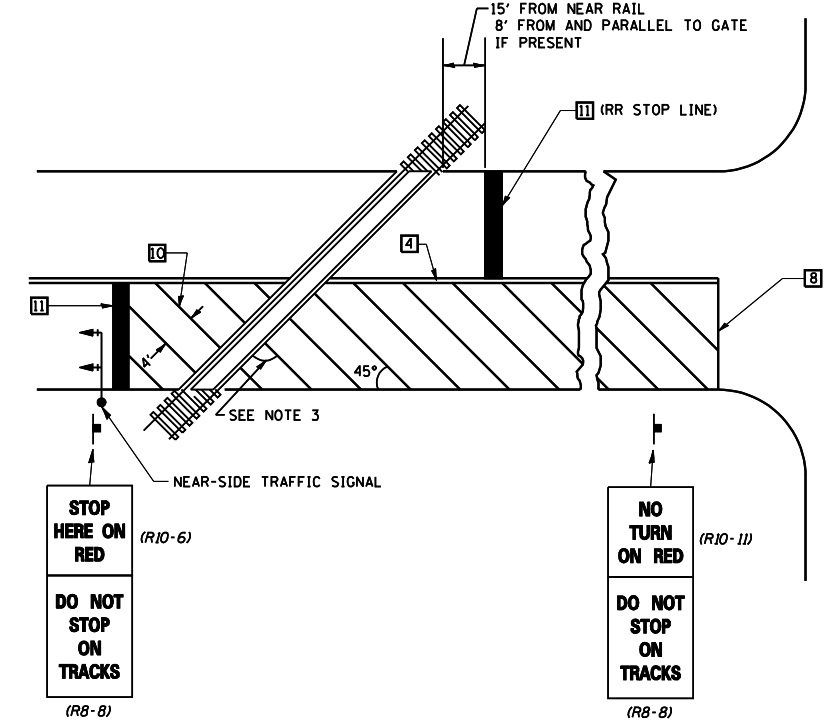
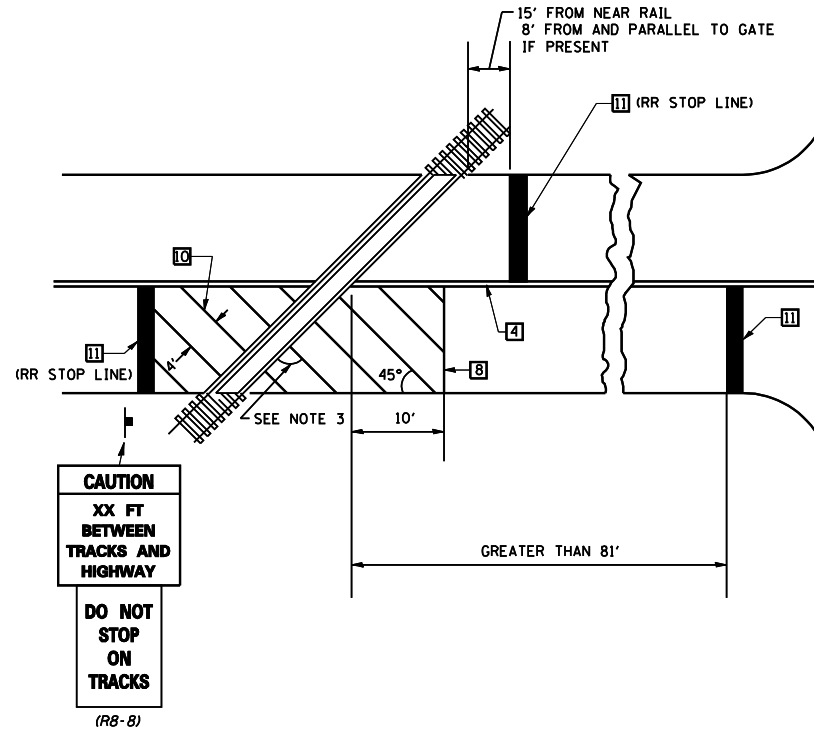
APPROXIMATELY 15' (4.5 m) OR 8' (2.4 m) BACK FROM AND PARALLEL TO GATE, IF PRESENT.

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE R XR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

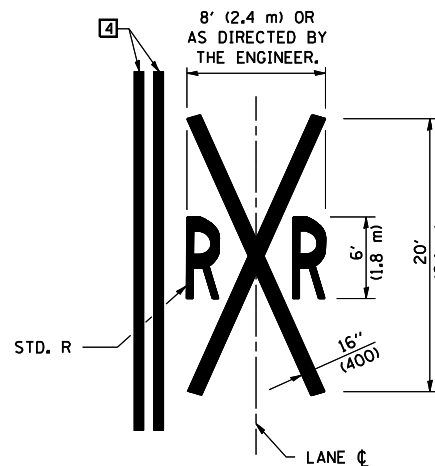
\* Minimum Distance  
400' for 55 MPH  
250' for 45 MPH  
100' for 35 MPH or Less



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = collierbw	DESIGNED -	REVISED - 11/06
ct:\projects\d502499 (v8)\typicals.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)

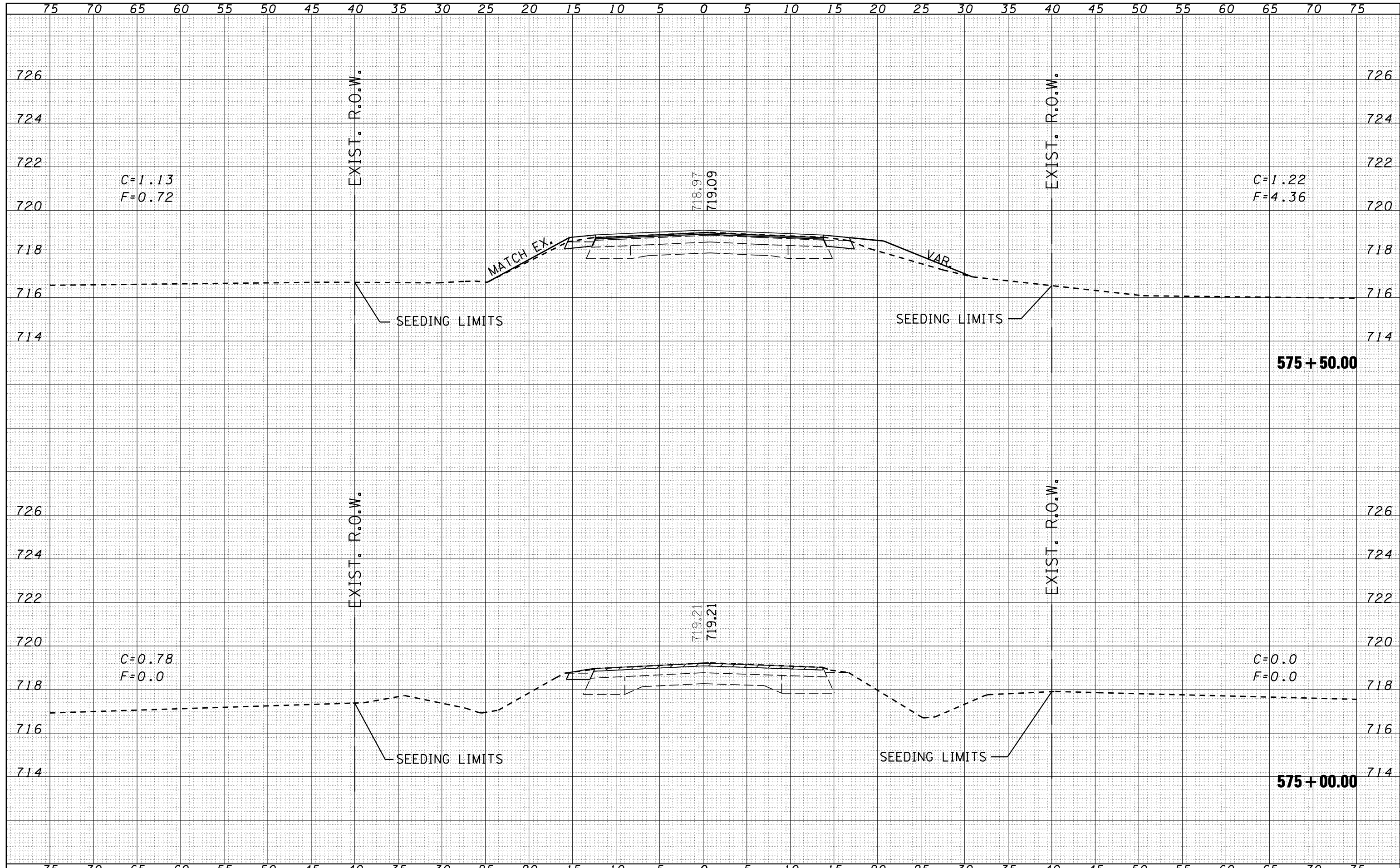
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DISTRICT 5 DETAIL NO. 7800AAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	121BR-1	VERMILION	44	30
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70018	

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

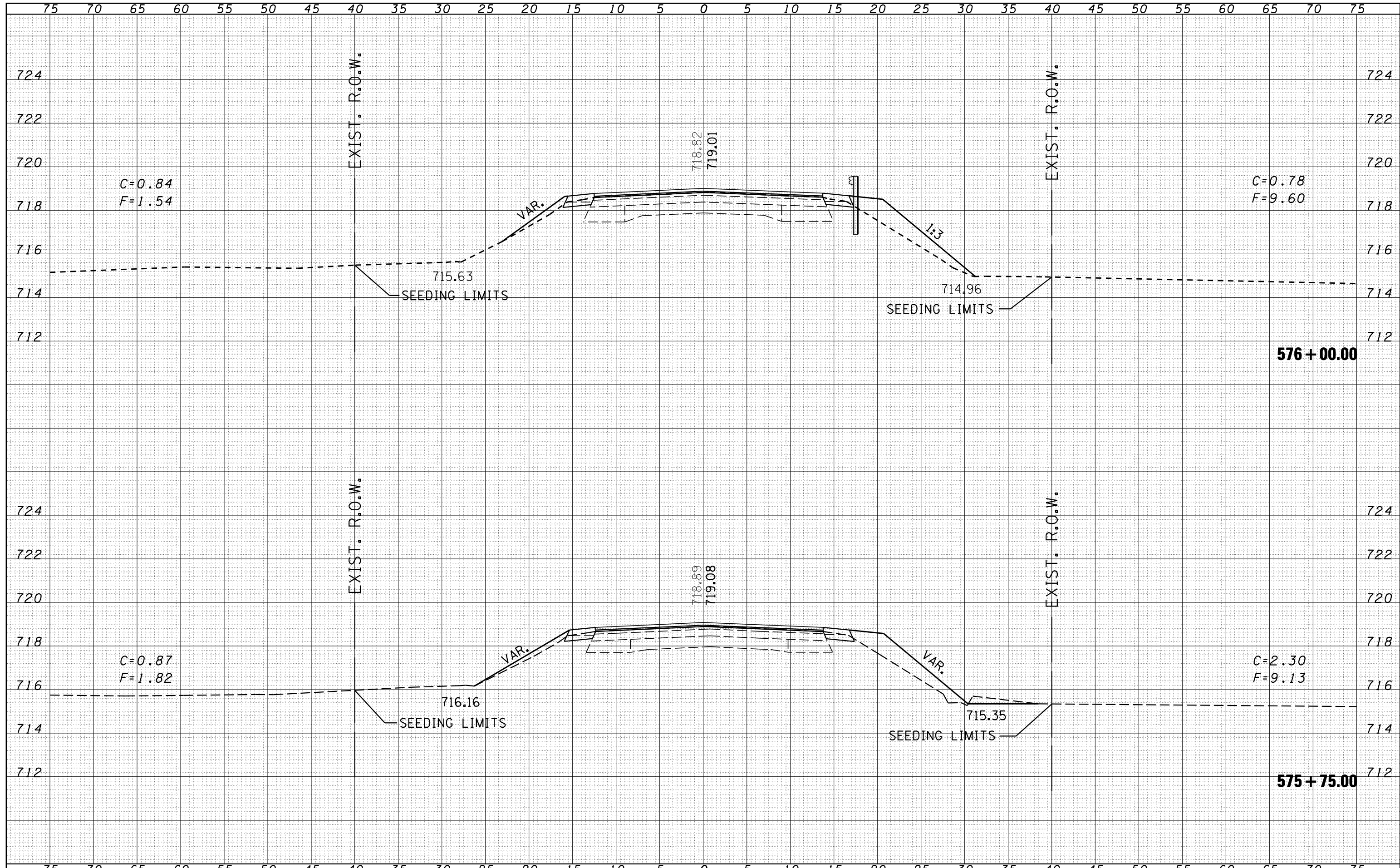
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PLOTTED	
TEMPLATE	
AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = collier-bv	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 49</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = 3/12/2008	DATE -	CHECKED -	REVISIED -			CONTRACT NO. 70018					
		DATE -	REVISIED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

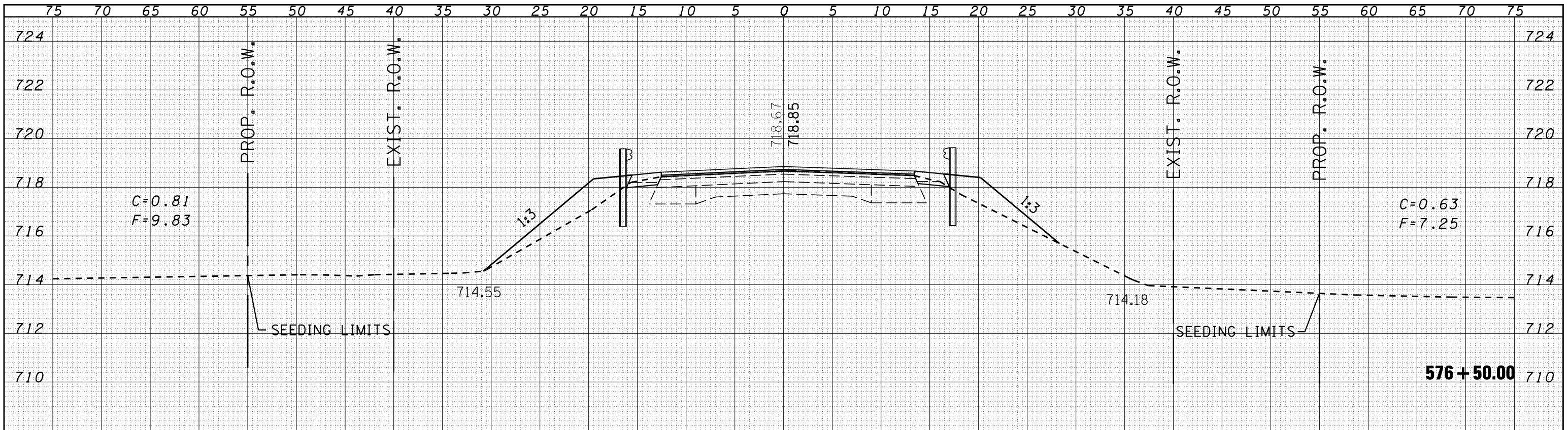
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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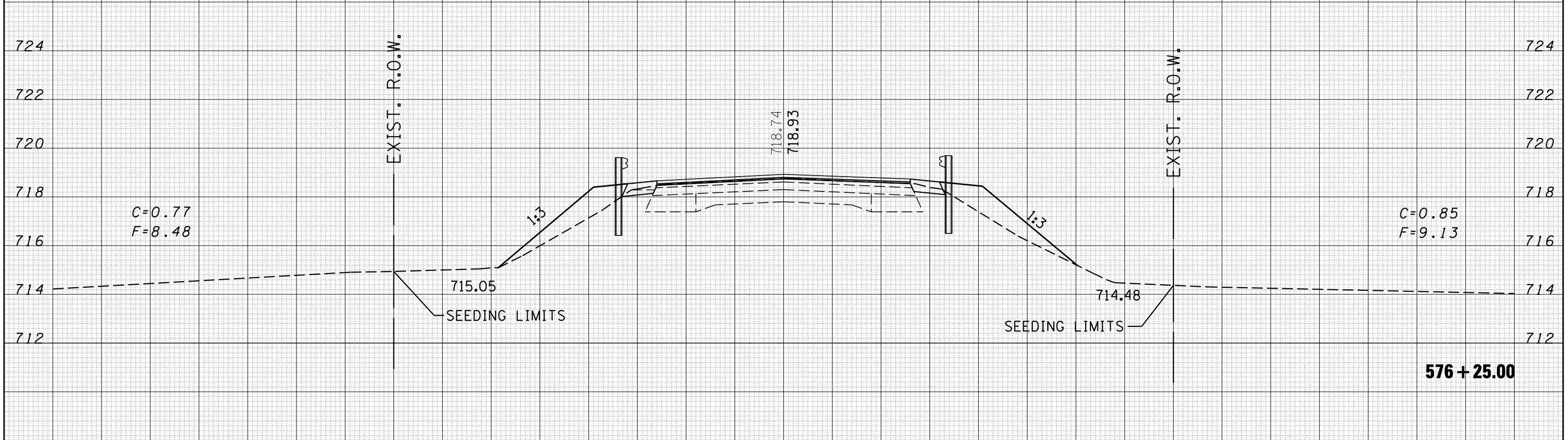


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		DATE -	REVISIED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
PLOT SCALE = 10.0000' / IN.		PLOT DATE = 3/12/2008		SCALE:		SHEET NO. OF SHEETS		STA. 575+75.00 TO STA. 576+00.00			

DATE	
BY	
SURVEYED	
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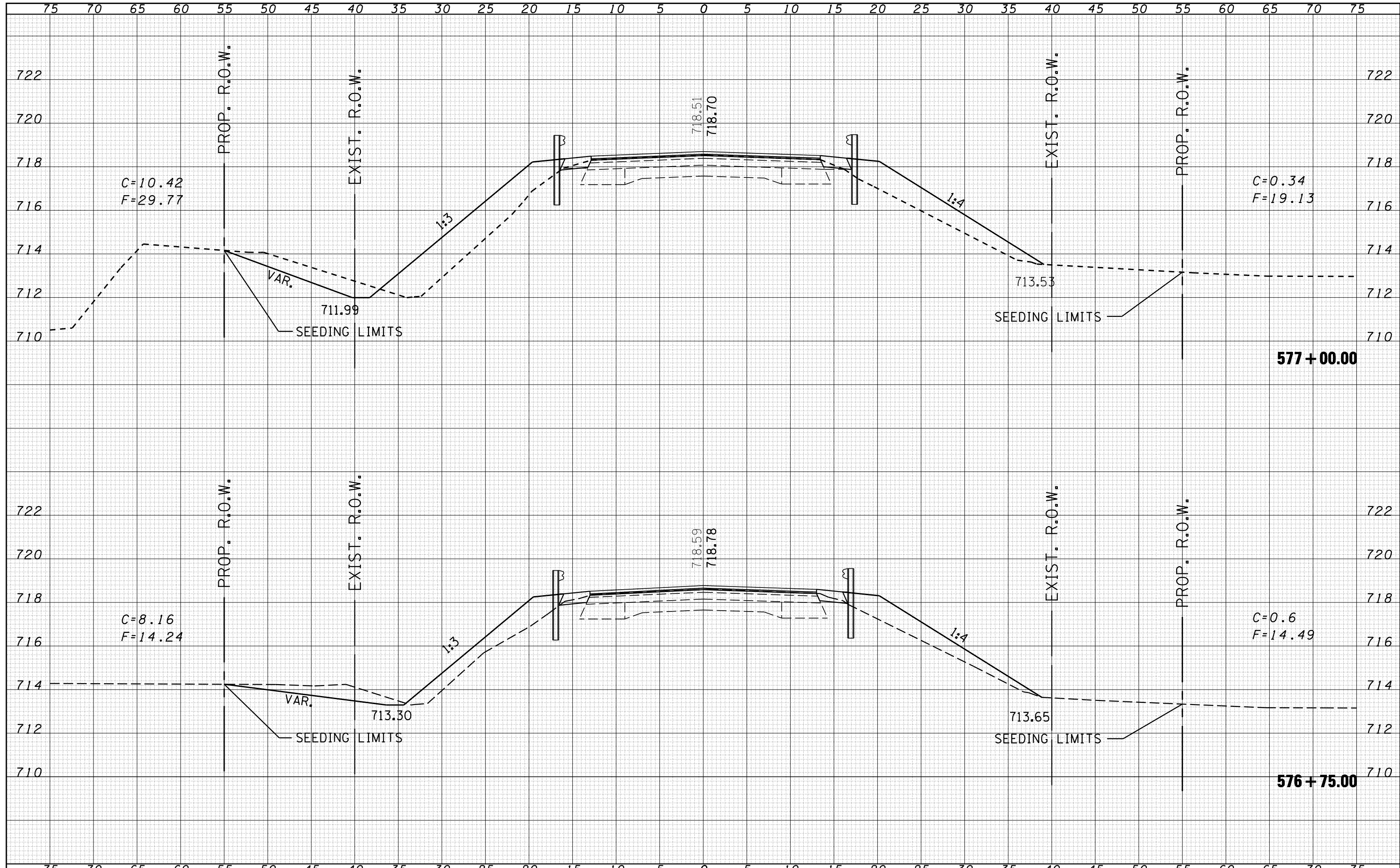
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		CHECKED -	REVISD -								
		DATE -	REVISD -								

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
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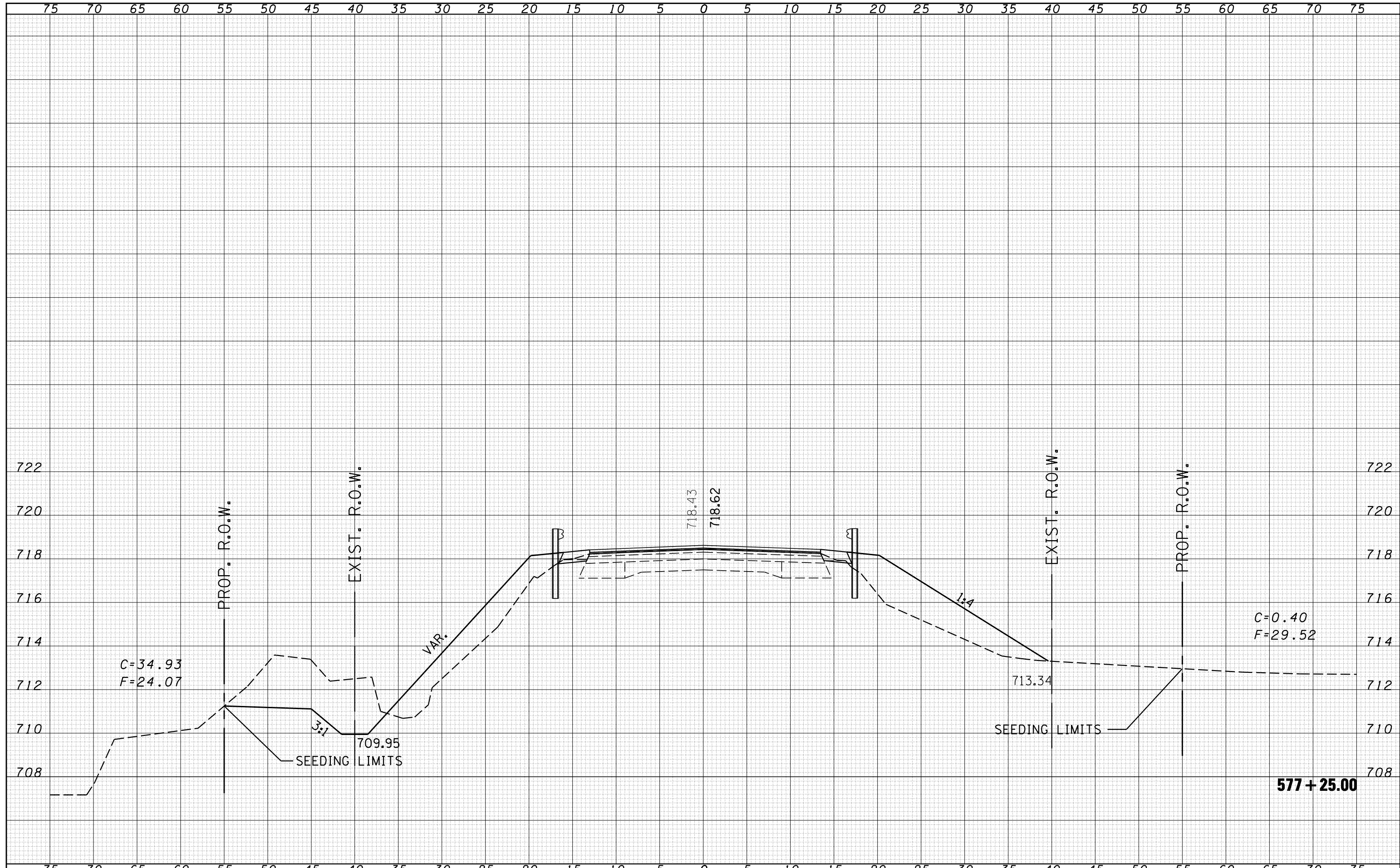


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PLOT DATE = 3/12/2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 70018					
		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA. 576+75.00	TO STA. 577+00.00



DATE	
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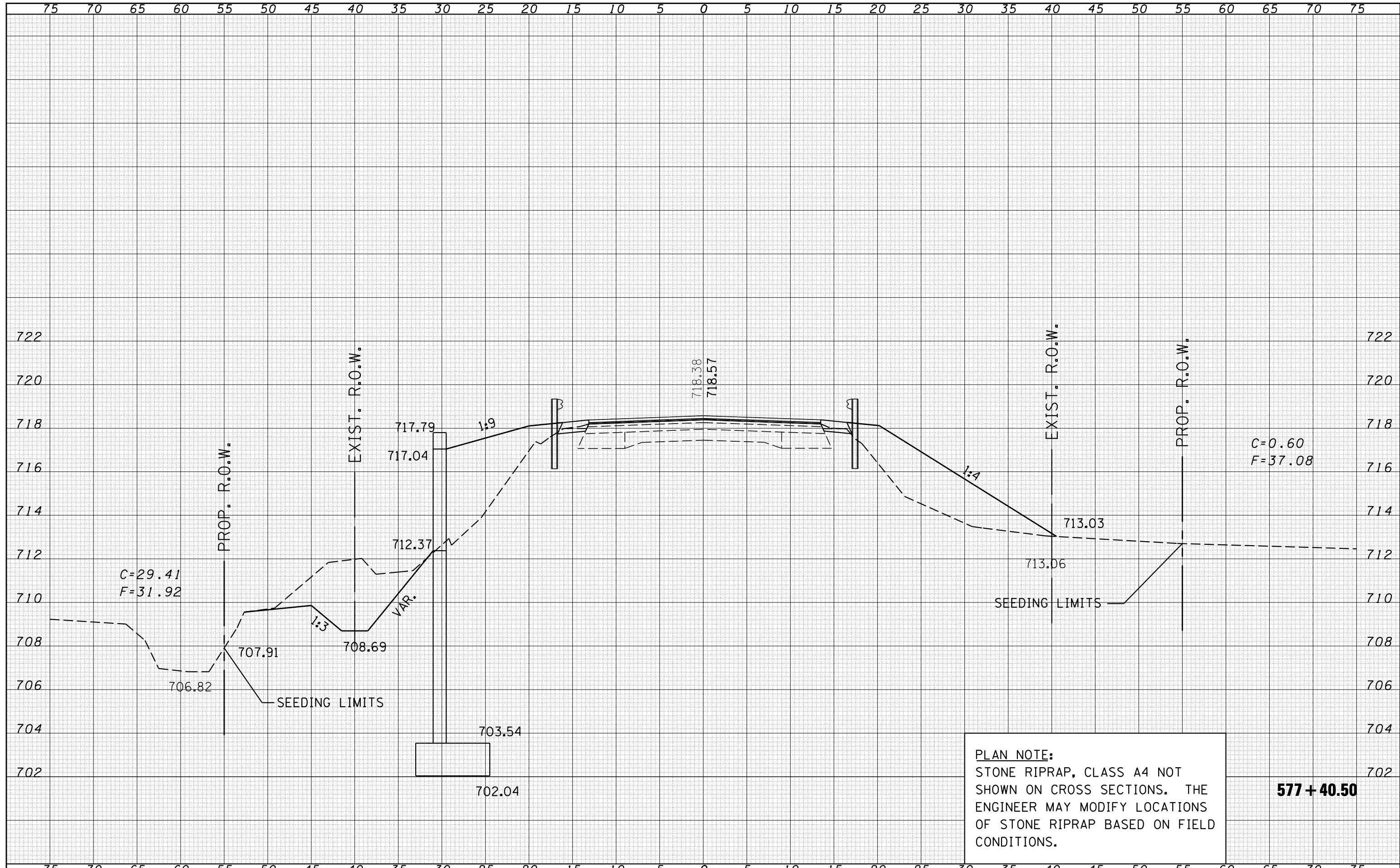
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AREAS	
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FILE NAME =	USER NAME = collier-bv	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 49</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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		CHECKED -	REVISED -					CONTRACT NO. 70018						
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT						
PLOT SCALE = 10.0000' / IN.		PLOT DATE = 3/12/2008		SCALE:		SHEET NO.	OF	SHEETS	STA. 577+25.00	TO STA. 577+25.00				

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

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



**PLAN NOTE:**  
 STONE RIPRAP, CLASS A4 NOT SHOWN ON CROSS SECTIONS. THE ENGINEER MAY MODIFY LOCATIONS OF STONE RIPRAP BASED ON FIELD CONDITIONS.

C=0.60  
 F=37.08

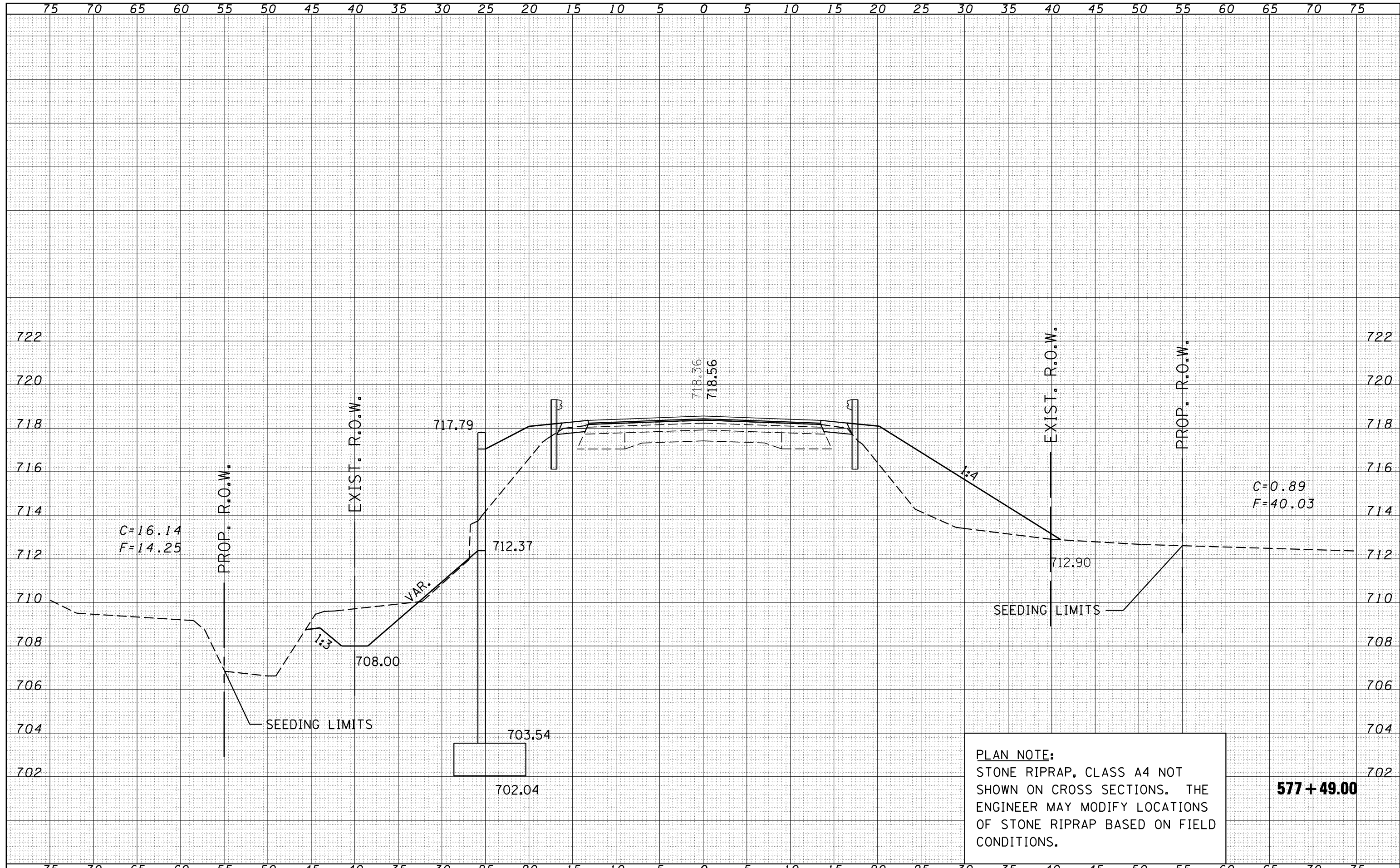
**577 + 40.50**

FILE NAME =	USER NAME = collier-bv	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 49</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. 577+40.50 TO STA. 577+40.50 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



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

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



**PLAN NOTE:**  
 STONE RIPRAP, CLASS A4 NOT SHOWN ON CROSS SECTIONS. THE ENGINEER MAY MODIFY LOCATIONS OF STONE RIPRAP BASED ON FIELD CONDITIONS.

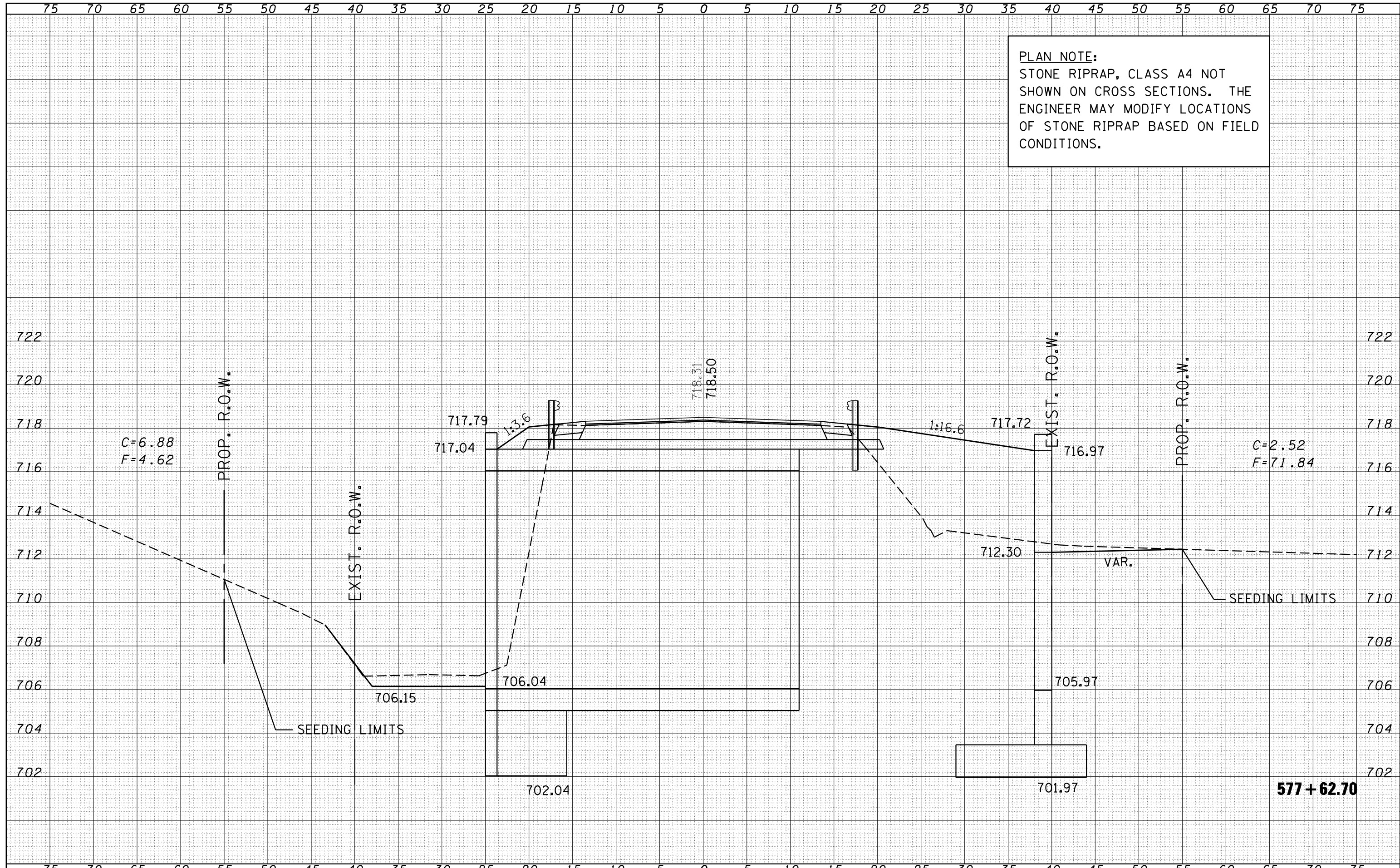
**577 + 49.00**

FILE NAME =	USER NAME = collier-bv	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 49</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 3/12/2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 70018		ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. 577+49.00 TO STA. 577+49.00		

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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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**PLAN NOTE:**  
 STONE RIPRAP, CLASS A4 NOT SHOWN ON CROSS SECTIONS. THE ENGINEER MAY MODIFY LOCATIONS OF STONE RIPRAP BASED ON FIELD CONDITIONS.

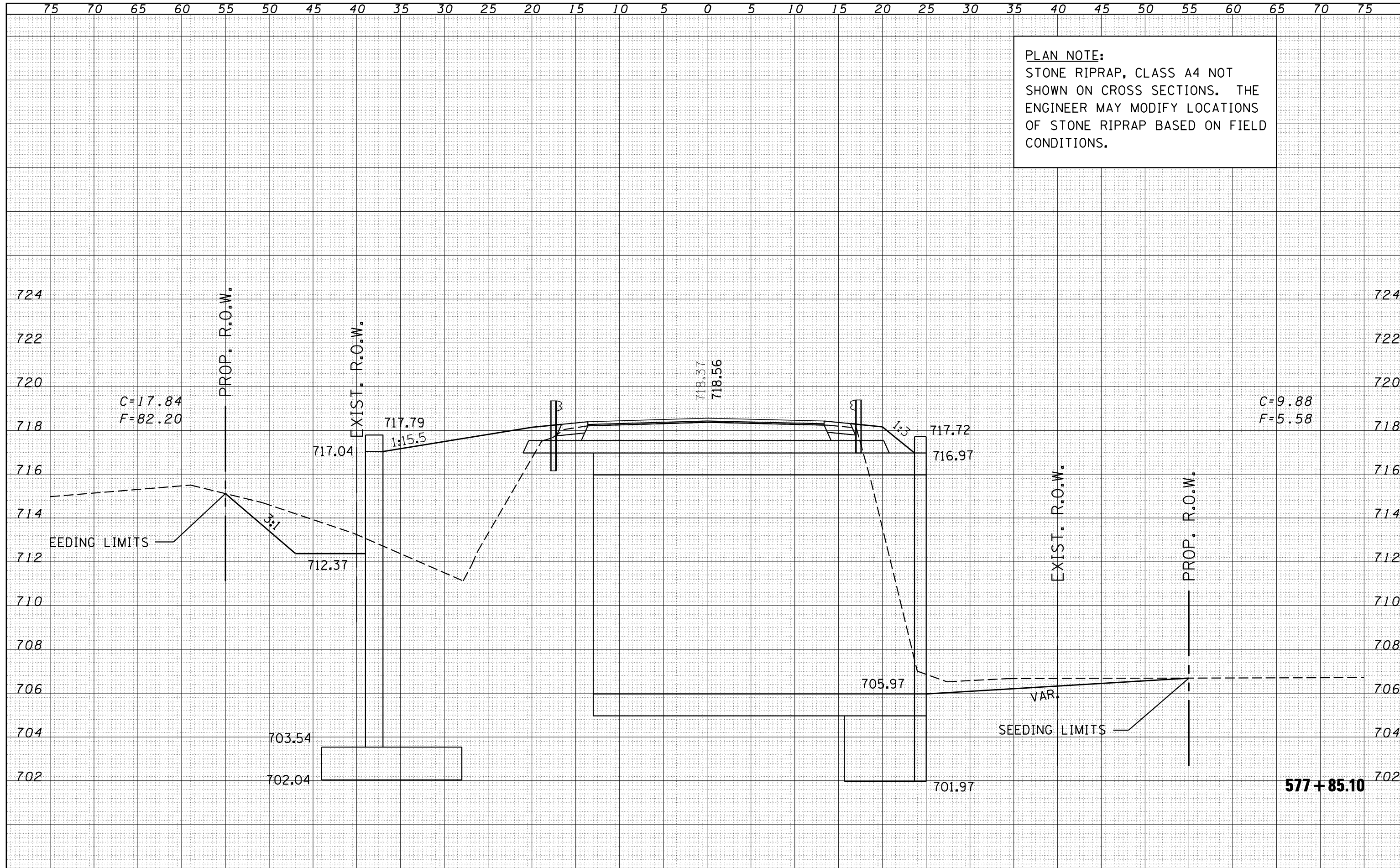


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ca:\projects\d502499 (v8)\2007_dtm\11-49.xssht.dgn		DRAWN -	REVISED -		840	121BR-1	VERMILION	44	38		
PLOT SCALE = 10.0000' / IN.		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 577+62.70 TO STA. 577+62.70		CONTRACT NO. 70018				
PLOT DATE = 3/12/2008		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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DATE	
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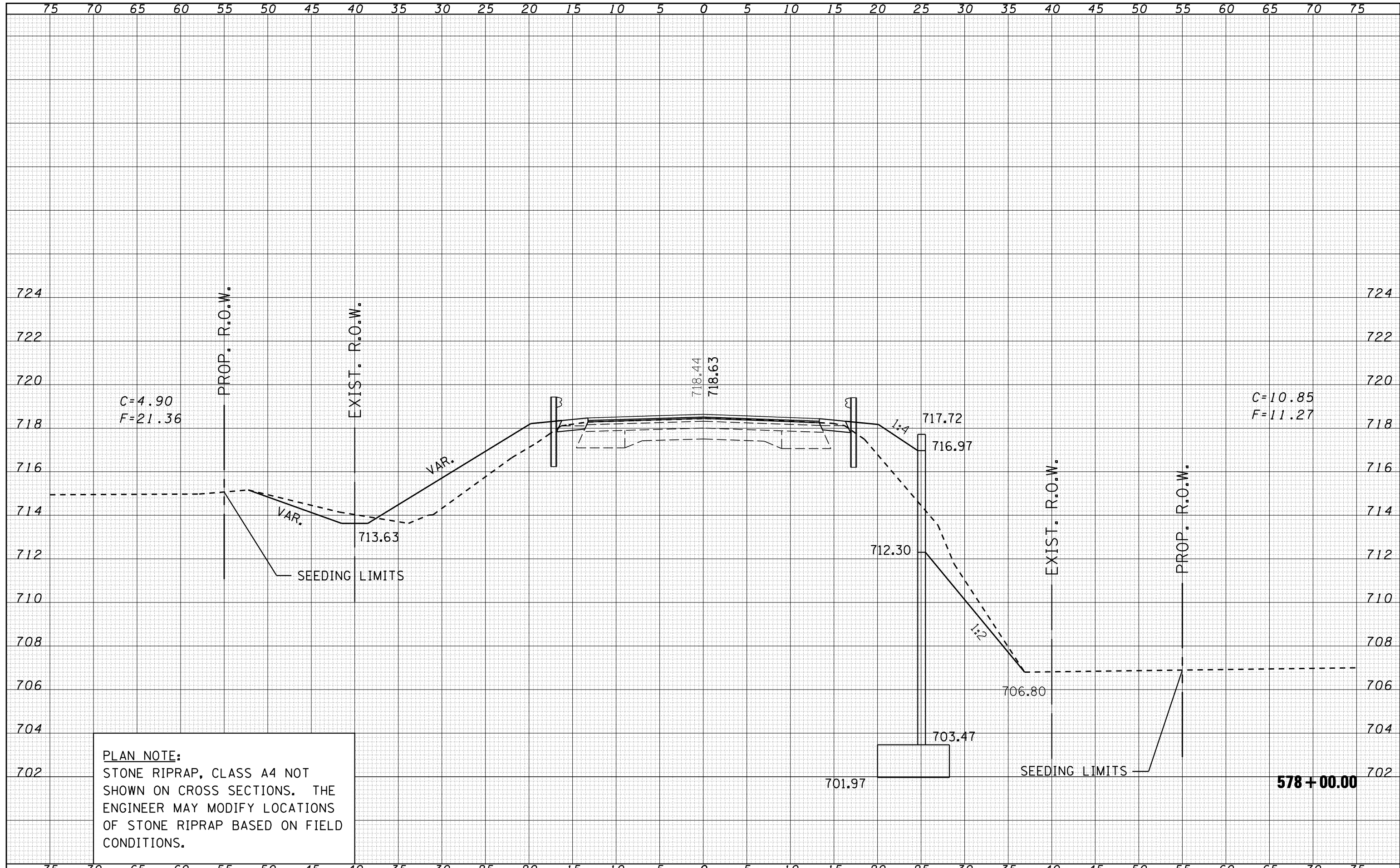
**PLAN NOTE:**  
 STONE RIPRAP, CLASS A4 NOT SHOWN ON CROSS SECTIONS. THE ENGINEER MAY MODIFY LOCATIONS OF STONE RIPRAP BASED ON FIELD CONDITIONS.



FILE NAME =	USER NAME = collier-bw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 49</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\projects\d502499 (v8)\2007.dtm\11-49.xssht.dgn		DRAWN -	REVISED -		840	121BR-1	VERMILION	44	39		
		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 577+85.10 TO STA. 577+85.10		CONTRACT NO. 70018				
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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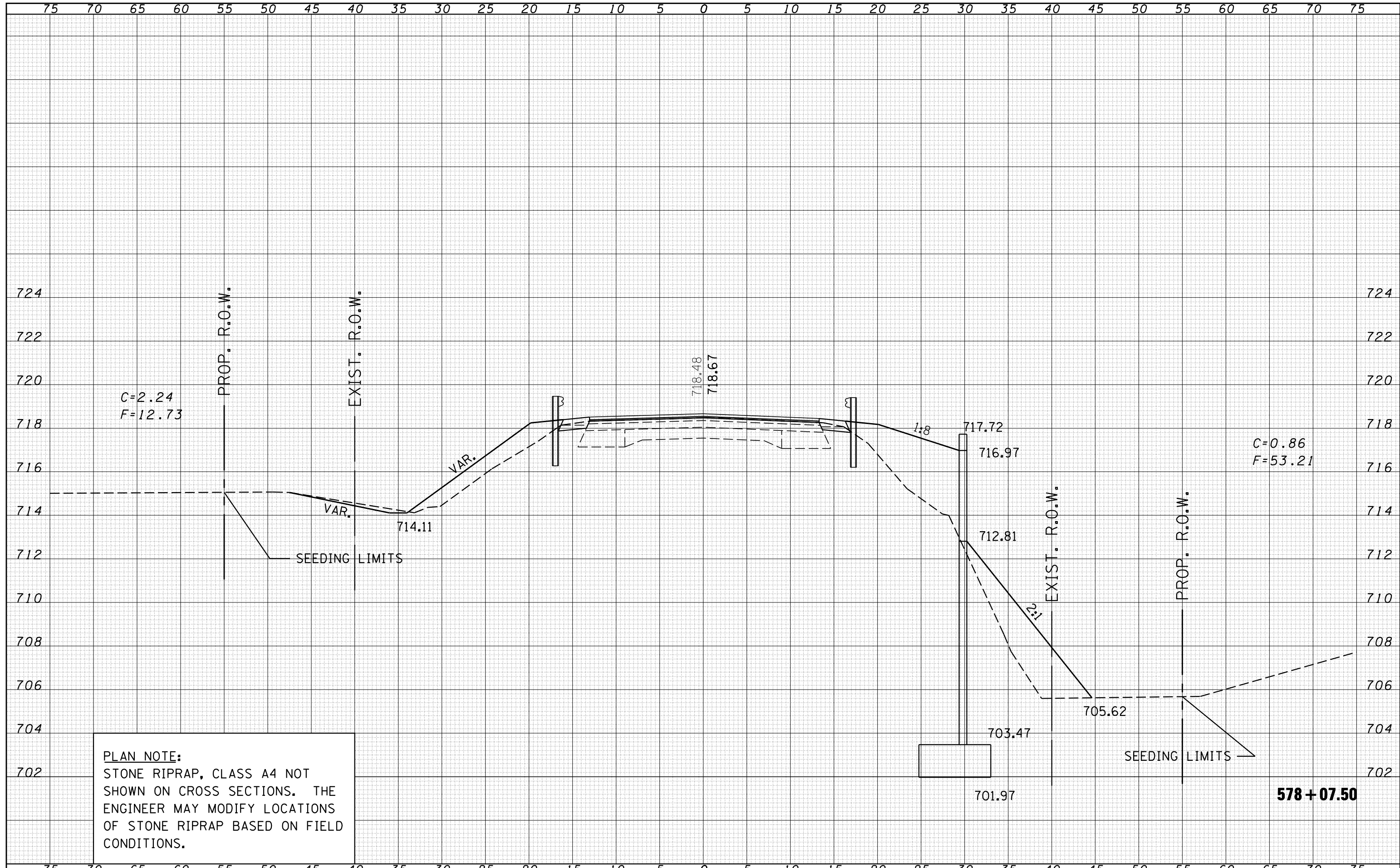


**PLAN NOTE:**  
 STONE RIPRAP, CLASS A4 NOT SHOWN ON CROSS SECTIONS. THE ENGINEER MAY MODIFY LOCATIONS OF STONE RIPRAP BASED ON FIELD CONDITIONS.

FILE NAME =	USER NAME = collier-bw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 49</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\projects\d502499 (v8)\2007.dtm\11-49.xssht.dgn	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -			840	121BR-1	VERMILION	44	40	
PLOT DATE = 3/12/2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 70018					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEY	
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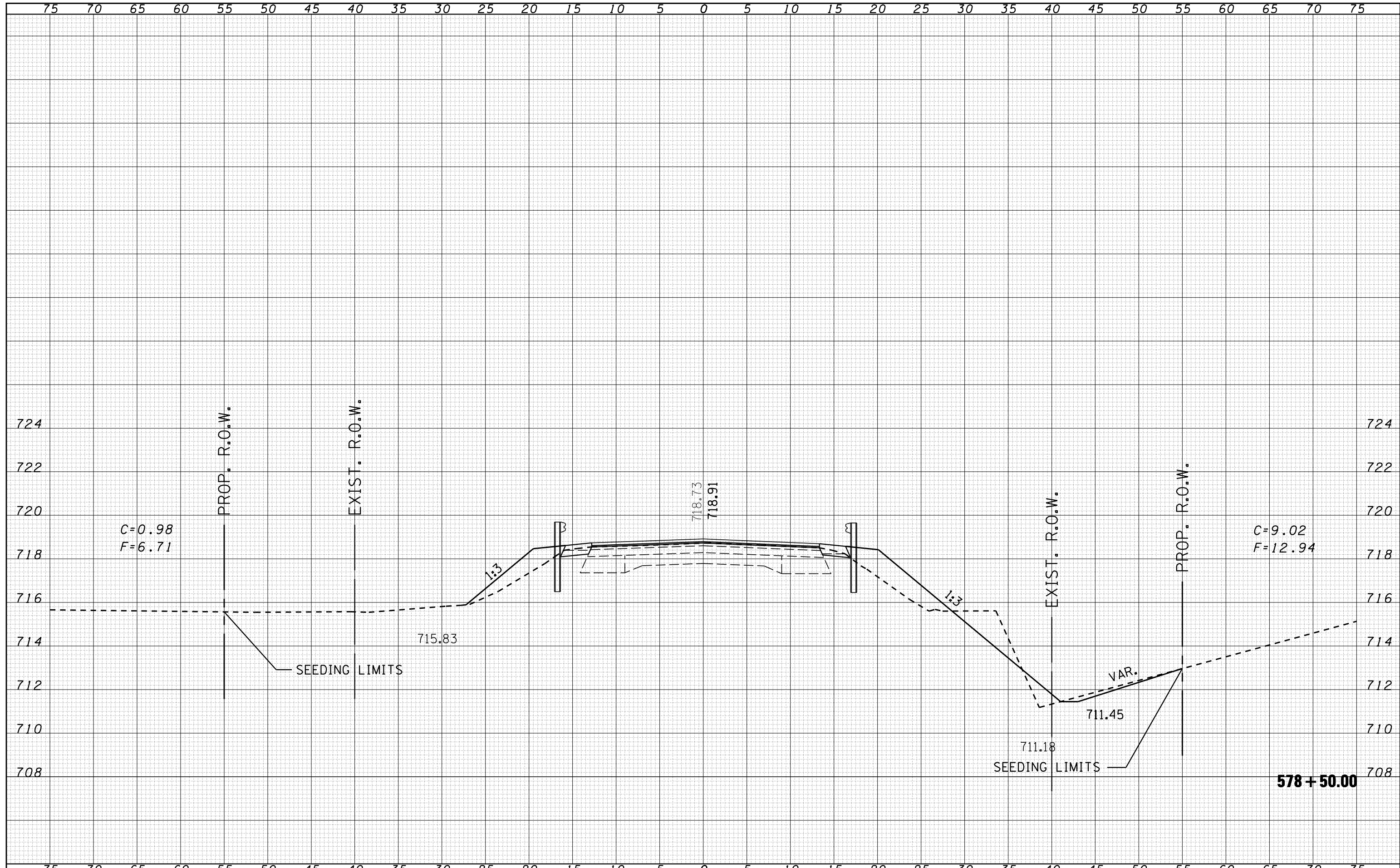
**PLAN NOTE:**  
 STONE RIPRAP, CLASS A4 NOT SHOWN ON CROSS SECTIONS. THE ENGINEER MAY MODIFY LOCATIONS OF STONE RIPRAP BASED ON FIELD CONDITIONS.

FILE NAME =	USER NAME = collier-bw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 49</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\projects\d502499 (v8)\2007_dtm\11-49.xssht.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	840	121BR-1	VERMILION	44	41
		CHECKED -	REVISED -		STA. 578+07.50	TO STA. 578+07.50	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	<b>CONTRACT NO. 70018</b>			
		DATE -	REVISED -									



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

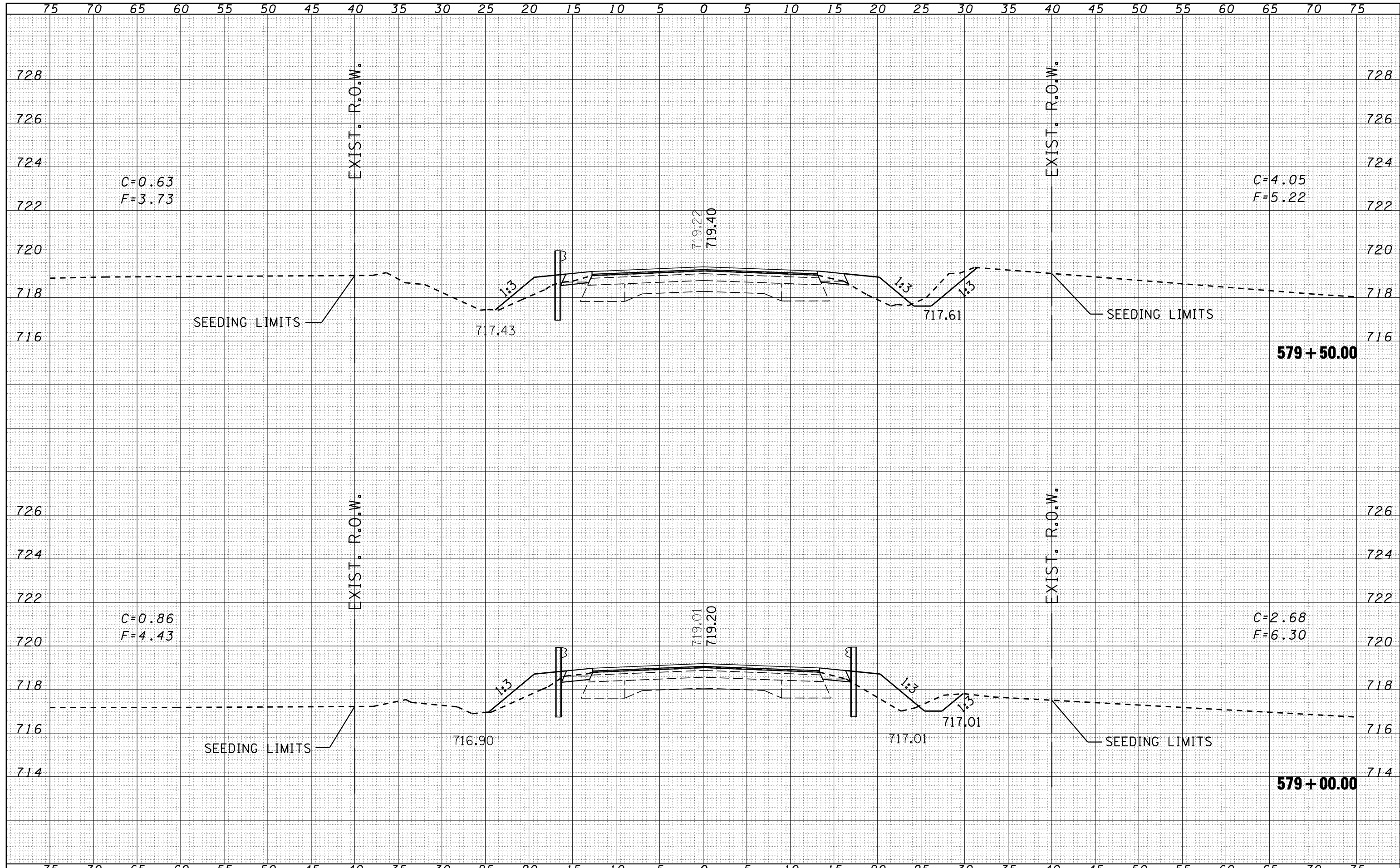
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BY	
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PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = collier-bv	DESIGNED -	REVISD -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 49</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISD -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

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SURVEYED	
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TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

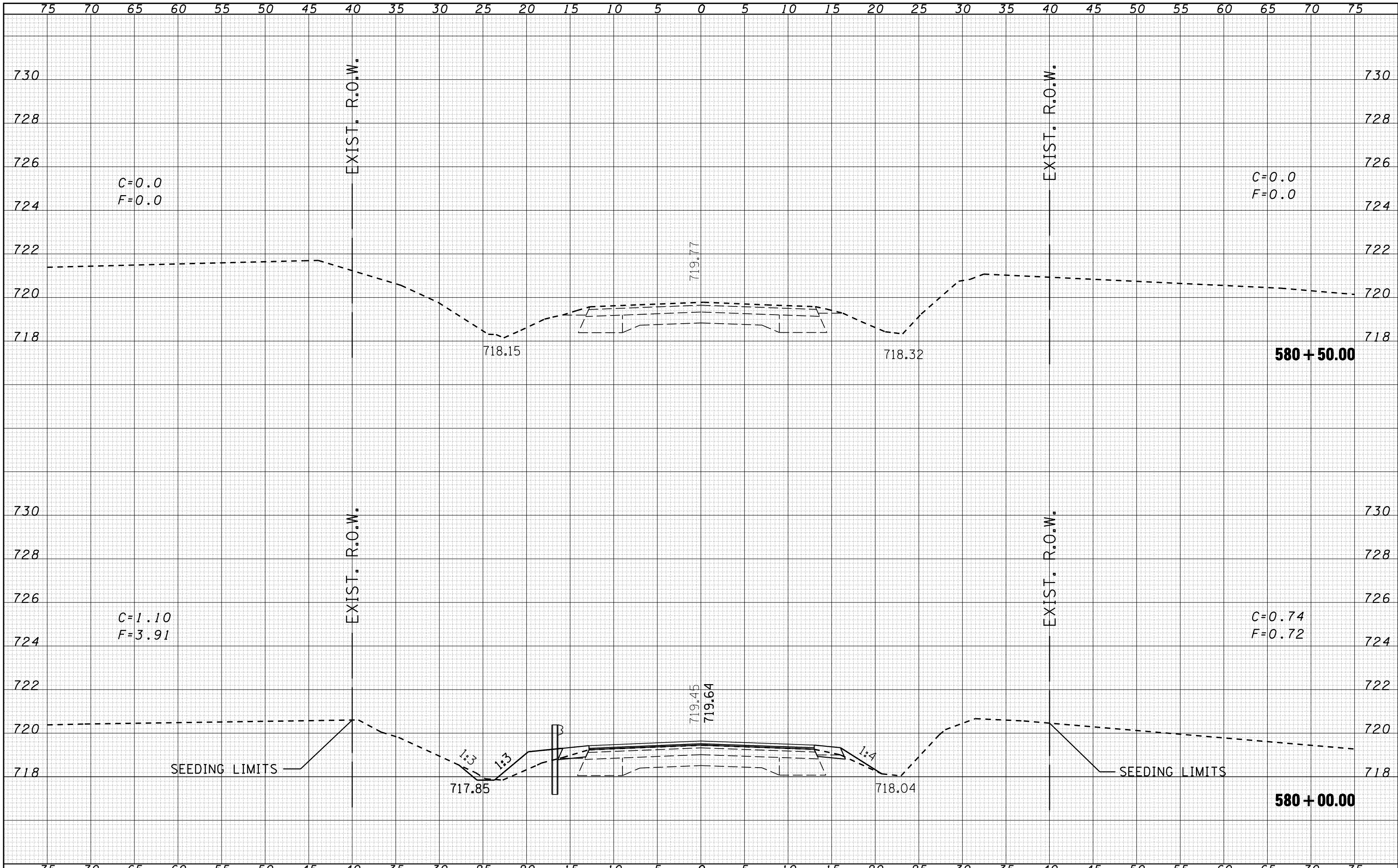
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AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = collier-bv	DESIGNED -	REVISD -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 49</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\projects\d502499 (v8)\2007_dtm\11-49.xssht.dgn		DRAWN -	REVISD -			840	121BR-1	VERMILION	44	43	
		CHECKED -	REVISD -			CONTRACT NO. 70018					
		DATE -	REVISD -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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

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



FILE NAME =	USER NAME = collier-bw	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 49</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\projects\d502499 (v8)\2007_dtm\11-49_xssht.dgn		DRAWN -	REVISIED -			840	121BR-1	VERMILION	44	44	
		CHECKED -	REVISIED -			CONTRACT NO. 70018					
		DATE -	REVISIED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					