

06-16-2023 LETTING ITEM 207

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 895	19-00161-00-RS	SALINE	11	1
COLLEGE ROAD		CONTRACT 99705		
PROJECT 9UJC(992)		JOB C-99-065-19		

PLANS FOR PROPOSED

SALINE COUNTY

COLLEGE ROAD (F.A.S. 895)
(ILL ROUTE 13 TO ILL ROUTE 142)
SECTION 19-00161-00-RS
PROJECT 9UJC(992)
JOB C-99-065-19
CONTRACT 99705

FUNCTIONAL CLASS: MAJOR COLLECTOR
ADT (2021): 700

INDEX OF SHEETS

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES & TYPICAL SECTIONS
- 3 CONSTRUCTION SCHEDULES
- 4 MISCELLANEOUS DETAILS
- 5 CONCRETE COLLAR DETAILS
- 6-11 PLAN VIEWS

STANDARDS

- 00001-08 STANDARD SYMBOLS, ABBR, PATTERNS
- 001006 DECIMAL OF AN INCH AND FOOT
- 280001-07 TEMPORARY EROSION CONTROL
- 701006-05 TRAFFIC CONTROL
- 701011-04 TRAFFIC CONTROL
- 701201-05 TRAFFIC CONTROL
- 701301-04 TRAFFIC CONTROL
- 701306-04 TRAFFIC CONTROL
- 701311-03 TRAFFIC CONTROL
- 701801-06 TRAFFIC CONTROL
- 701901-08 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- BLR 24-2 MAILBOX TURNOUT FOR LOCAL ROADS



LOCATION OF SECTION INDICATED THIS -

END IMPROVEMENTS
STA. 237+48.1



NO SCALE

BEGIN IMPROVEMENTS
STA. 0+25.6



LOCATION MAP
LENGTH OF IMPROVEMENTS = 23,722.5 FT. = 4.493 MI.

ALL EXISTING UTILITIES AND LOCATIONS TO BE
CONFIRMED BY J.U.L.I.E. 800-892-0123



BROWN & ROBERTS, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
1 WESTRIDGE ROAD HARRISBURG, IL 62948 (618) 252-8111

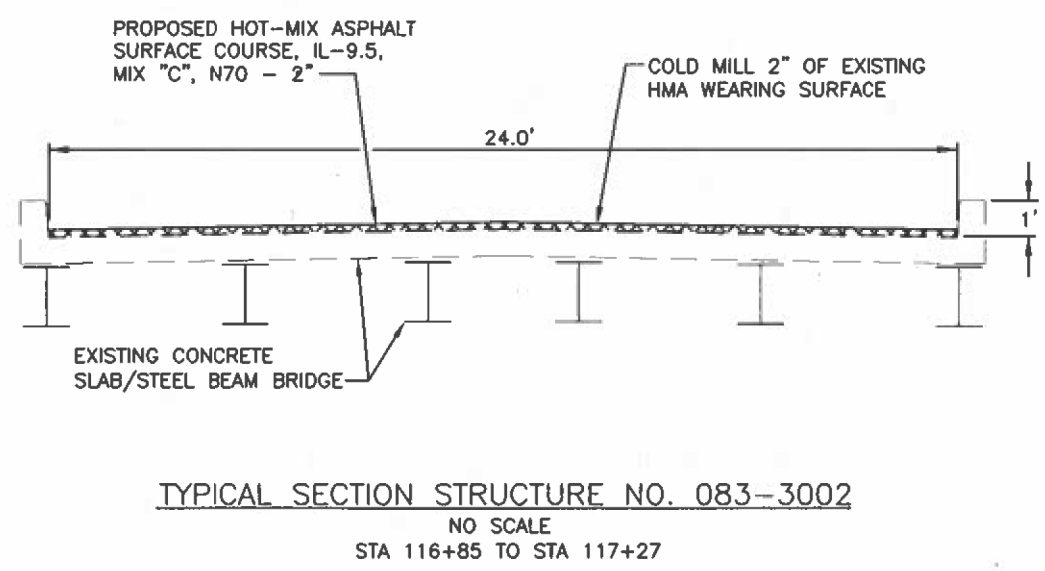
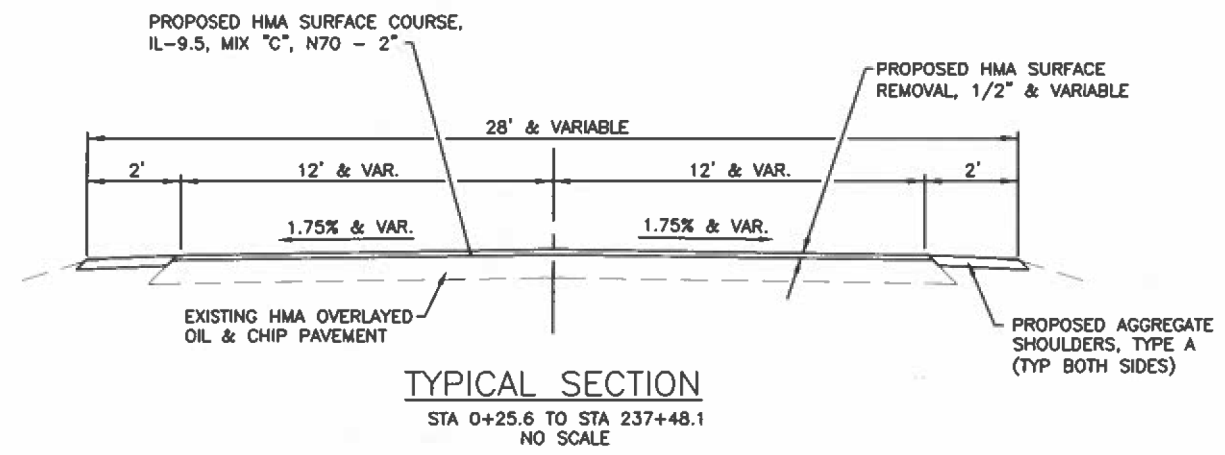
BRI JOB NO. 21-104

CONTRACT NO. 99705

Jim W. Brown
REGISTERED PROFESSIONAL CORPORATION
J.W. BROWN
PRESIDENT
184-002518
Jim W. Brown as President of Brown & Roberts, Inc.
Illinois Professional Design Firm
Land Survey & Professional Engineering Corporation
Number 184-002518
Expires April 30, 2023
Date: 3/29/2023

SALINE COUNTY	
APPROVED	<i>3/29/23</i> DATE <i>[Signature]</i> CHAD MASTERSON, SALINE COUNTY ENGINEER
PASSED	<i>4/10/23</i> DATE <i>[Signature]</i> DISTRICT 3 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>4/11/23</i> DATE <i>[Signature]</i> KIRK H. BROWN, P.E. REGION FIVE ENGINEER

STREET NAME	PROJECT NO.	JOB NO.	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
COLLEGE ROAD	9UJC(992)	C-99-065-19	FAS 895	19-00161-00-RS	SALINE	11	2



HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
Location(s)	HMA Surface Course
Mixture Use(s)	HMA Surface Course, IL-9.5, Mix C, N70
AC/PG	PG 64-22
RAP % (Max)	10
Mixture Composition (Graduation Mixture)	IL-9.5mm
Friction Aggregate	C Surface

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
70011500	COLD MILLING EXISTING SURFACE	SQ YD	64,715
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	27,735
40604052	HOT MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	7,657
48100100	AGGREGATE SHOULDERS, TYPE A	TON	1,264
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	1
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	1
XX009576	PRECAST CONCRETE BOX CULVERTS 6' X 3.5'	FOOT	10
XX009577	PRECAST CONCRETE BOX CULVERTS 8' X 3.5'	FOOT	10
54011203	PRECAST CONCRETE BOX CULVERTS 12' X 3'	FOOT	10
54248510	CONCRETE COLLAR	CU YD	2.0
67100100	MOBILIZATION	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4,736
# 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	60,947
# 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	47
# 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	297
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	297

* SEE SPECIAL PROVISIONS

SPECIALTY ITEMS

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CONTRACT NO. 99705

STREET NAME	PROJECT NO.	JOB NO.	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
COLLEGE ROAD	9UJC(992)	C-99-065-19	FAS 895	19-00161-00-RS	SALINE	11	3

SCHEDULE OF MAILBOX TURNOUTS
LOCATION
STA 23+75 RT
STA 28+50 RT
STA 181+05 RT
STA 186+00 RT
STA 189+00 RT
STA 189+50 LT
STA 191+00 RT
STA 196+75 RT
STA 197+85 RT
STA 199+50 RT
STA 203+25 RT
STA 204+25 RT
STA 205+10 RT
STA 206+10 RT
STA 207+05 LT
STA 208+00 RT
STA 209+50 RT
STA 214+50 RT
STA 214+85 LT
STA 217+50 LT
STA 218+70 RT
STA 220+10 RT
STA 234+25 RT

SCHEDULE OF PRIVATE ENTRANCES					
LOCATION	WIDTH (FOOT)	SURFACE (TONS)	LOCATION	WIDTH (FOOT)	SURFACE (TONS)
STA 10+51 RT	20	1.0	STA 204+61 RT	25	1.2
STA 24+30 RT	40	2.0	STA 205+64 RT	25	1.2
STA 28+84 RT	20	1.0	STA 206+05 RT	20	1.0
STA 74+53 LT	20	1.0	STA 206+82 RT	25	1.2
STA 156+17 LT	25	1.2	STA 207+47 LT	20	1.0
STA 173+81 LT	25	1.2	STA 207+85 RT	20	1.0
STA 181+59 RT	50	2.4	STA 208+14 LT	25	1.2
STA 184+29 RT	30	1.5	STA 208+71 RT	25	1.2
STA 185+67 RT	20	1.0	STA 209+51 RT	25	1.2
STA 186+23 RT	20	1.0	STA 212+58 LT	25	1.2
STA 188+48 RT	25	1.2	STA 214+17 LT	20	1.0
STA 189+08 LT	25	1.2	STA 214+28 RT	30	1.5
STA 189+88 RT	25	1.2	STA 215+67 LT	20	1.0
STA 190+86 RT	30	1.5	STA 217+19 LT	25	1.2
STA 193+96 RT	25	1.2	STA 218+69 LT	20	1.0
STA 197+30 RT	25	1.2	STA 220+38 LT	20	1.0
STA 197+49 LT	25	1.2	STA 220+59 RT	20	1.0
STA 198+09 RT	25	1.2	STA 222+22 LT	25	1.2
STA 198+90 LT	25	1.2	STA 232+33 RT	25	1.2
STA 199+32 RT	25	1.2	STA 234+18 RT	20	1.0
STA 202+96 RT	25	1.2	TOTAL		48.1

PAVEMENT SCHEDULE				
LOCATION	HMA SURF CSE, MIX "C", N70 (2" LIFT) (TON)	BITUMINOUS MATERIALS (TACK COAT) 0.05#/SF (POUND)	COLD MILLING EXISTING SURFACE (SQ YD)	AGGREGATE SHOULDERS TYPE A (TON)
STA 0+25 TO STA 1+73 ILL ROUTE 13	117	448	995	8
STA 1+73 TO STA 236+98 MAINLINE	7,377	28,230	62,733	1,253
SIC SOUTH ENTRANCE	14	55	122	
SIC NORTH ENTRANCE	8	30	67	
MUDDY ROAD RT	8	30	66	
MUDDY ROAD LT	7	27	61	
KAID ROAD RT	5	20	45	
AIRSHAFT ROAD LT	7	27	60	
SUTTON ROAD LT	6	25	55	
PERKINS ROAD RT	8	30	66	
MORGAN TRACE LT	3	12	27	
STA 235+60 TO 236+97 RT COMMERCIAL ENT.	18	69	154	
STA 236+97 TO STA 237+48 ILL ROUTE 142	31	119	264	3
TOTALS	7,609	27,735	64,715	1,264

SCHEDULE OF NO PASSING ZONES			
SOUTHBOUND (LT LANE)	LENGTH (FT)	NORTHBOUND (RT LANE)	LENGTH (FT)
STA 0+37 TO STA 8+60	823	STA 36+30 TO STA 49+95	1,365
STA 46+19 TO STA 59+90	1,371	STA 180+94 TO STA 188+68	774
STA 190+10 TO STA 199+83	973	STA 197+71 TO STA 204+60	689
STA 208+14 TO STA 215+45	731	STA 228+57 TO STA 237+14	857
TOTALS	3,898		3,685

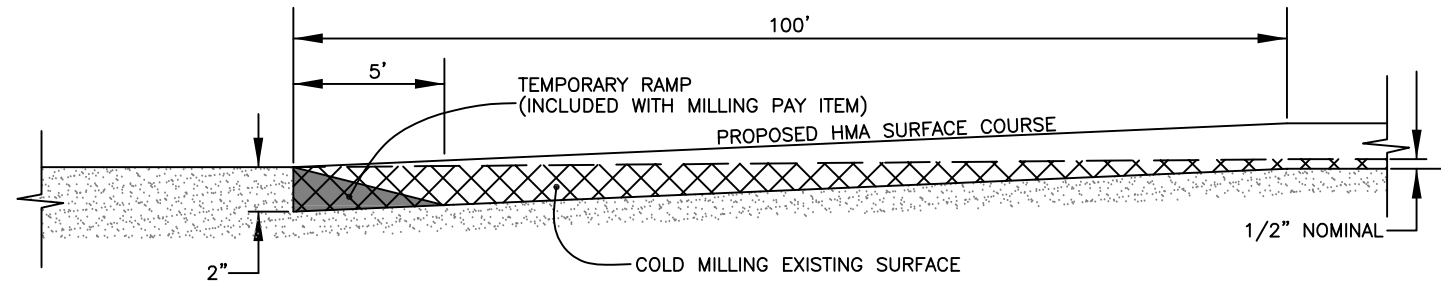
SCHEDULE OF BOX CULVERT EXTENSIONS			
LOCATION	SPAN (FOOT)	RISE (FOOT)	LENGTH (FOOT)
STA 81+04 RT	6.0	3.5	10
STA 96+31 RT	8.0	3.5	10
STA 143+56 RT	12.0	3.0	10

SCHEDULE OF PAVEMENT MARKING				
LOCATION	SHORT TERM MARKING - LINE 4" (FOOT)	PAINT PAVEMENT MARKING - LINE 4" (FOOT)	PAINT PAVEMENT MARKING - LINE 24" (FOOT)	RAISED REFLECTIVE PAVEMENT MARKER (EACH)
STA 0+35 TO STA 237+14 (YELLOW SHORT TERM CENTERLINE)	4,736			
STA 0+35, 0'LT TO 30'LT (WHITE STOP BAR)			35	
STA 0+35 TO STA 237+14 (YELLOW SKIP DASH CENTERLINE)		5,920		
STA 0+35 TO STA 237+14 (YELLOW NO PASSING SOLID CENTERLINE)		7,583		
STA 0+26 TO STA 237+48, 11'LT AND 11'RT (EDGE WHITE LINE)		47,444		
STA 237+15, 0'RT TO 12'RT (WHITE STOP BAR)			12	
STA 1+37 TO STA 237+48 (RPM)				297
TOTALS	4,736	60,947	47	297

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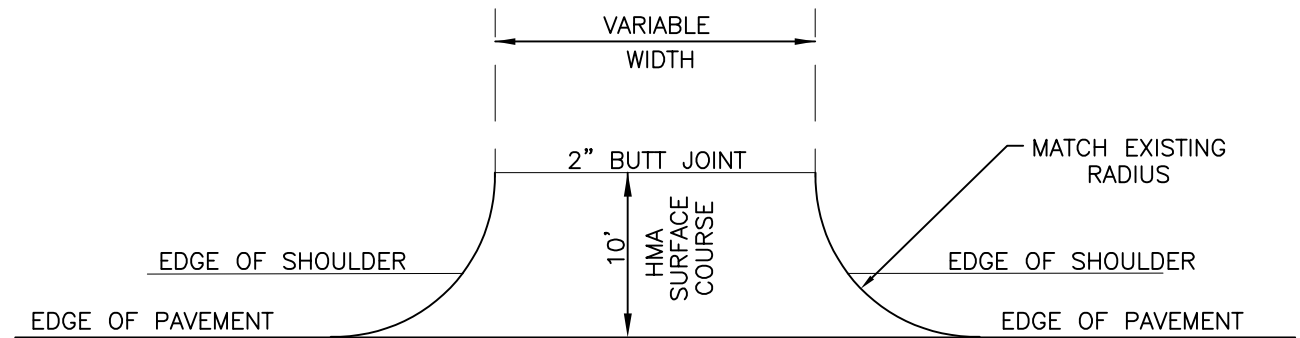
CONTRACT NO. 99705

STREET NAME	PROJECT NO.	JOB NO.	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
COLLEGE ROAD	9UJC(992)	C-99-065-19	FAS 895	19-00161-00-RS	SALINE	11	4



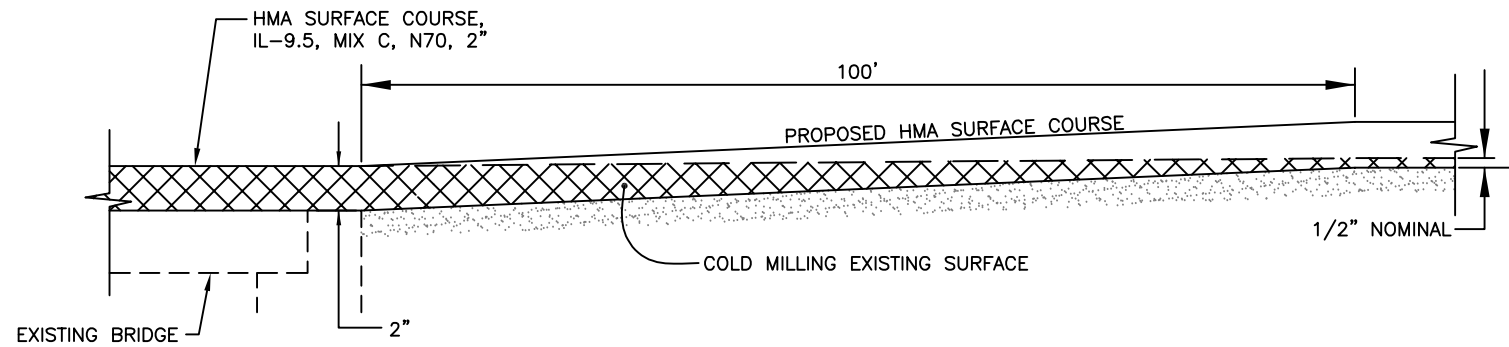
BUTT JOINT DETAIL – START/END OF PROJECT

STA. 0+25.6 TO STA. 1+25.6
 STA. 236+48.1 TO STA. 237+48.1
 NO SCALE



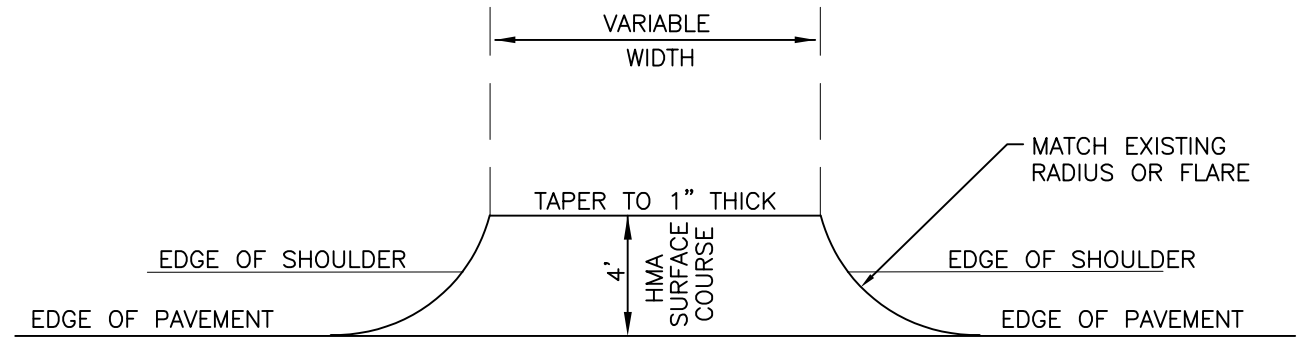
TYPICAL SIDE ROAD DETAILS

NO SCALE



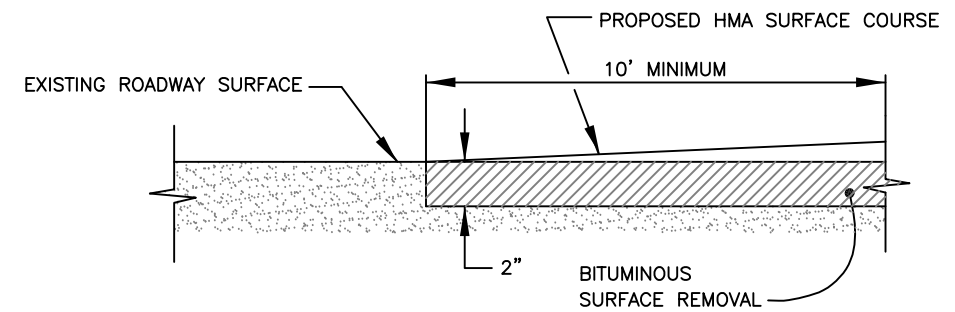
COLD MILLING DETAIL – TAPER AT BRIDGE

STA. 115+85 TO STA. 116+85
 STA. 117+27 TO STA. 118+27
 NO SCALE



TYPICAL ENTRANCE DETAILS

NO SCALE



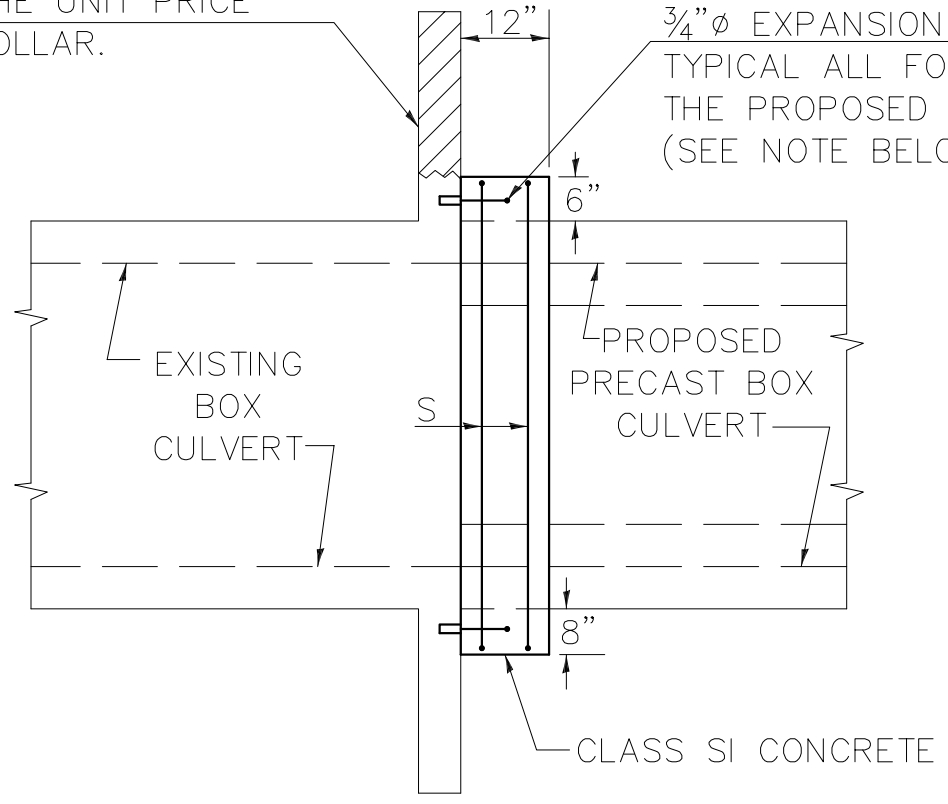
BUTT JOINT DETAIL

TYPICAL ALL SIDE ROADS
 NO SCALE

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STREET NAME	PROJECT NO.	JOB NO.	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
COLLEGE ROAD	9UJC(992)	C-99-065-19	FAS 895	19-00161-00-RS	SALINE	11	5

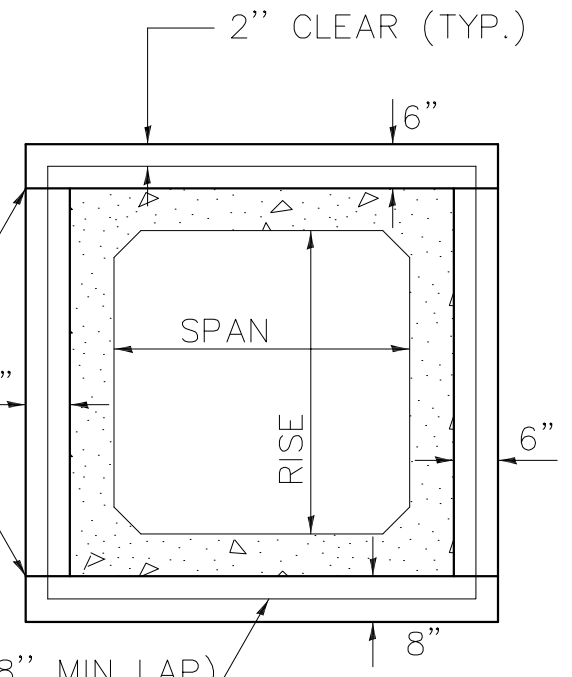
REMOVE PORTION OF EXISTING HEADWALL DOWN TO 12" BELOW FINISHED GRADE. REMOVAL OF EXISTING HEADWALL AS REQUIRED IS INCLUDED IN THE UNIT PRICE FOR CONCRETE COLLAR.



SIDE VIEW

$\frac{3}{4}$ " ϕ EXPANSION BOLTS AT 18" CENTERS TYPICAL ALL FOUR SIDES. COST INCLUDED IN THE PROPOSED CONCRETE COLLAR PAY ITEM. (SEE NOTE BELOW)

OPTIONAL CONSTRUCTION JOINTS (TYP.)



END VIEW

(2)-#5 S BARS (CONTINUOUS OR 1'-8" MIN LAP) INCLUDED IN THE CONCRETE COLLAR PAY ITEM.

NOTE:

EXPANSION BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 1006.09, SHALL EXTEND A MINIMUM OF 9" INTO THE NEW CONCRETE. EXPANSION BOLTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING A MINIMUM CERTIFIED PROOF LOAD OF 4080 POUNDS AND BE $\frac{3}{4}$ " DIA. HOOKED BOLTS.

TABULATION

(FOR INFORMATION PURPOSES ONLY)

SPAN X RISE	CLASS SI CONC. CU. YD. (EST.)
6' X 3.5'	0.53
8' X 3.5'	0.63
12' X 3'	0.84
TOTAL	2.00

CONCRETE COLLAR DETAILS FOR BOX CULVERT EXTENSIONS

REVISIONS

DRAWN	8-15-89	REVISED	3-26-08
REVISED	2-15-90	REVISED	5-17-13
REVISED	8-10-90	REVISED	1-26-16
REVISED	8-19-94	REVISED	10-21-21
REVISED	12-17-01	REVISED	_____

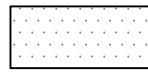

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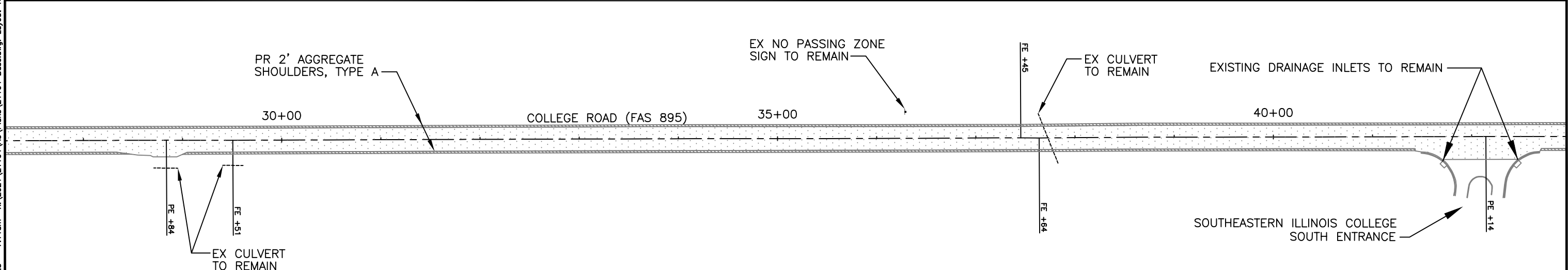
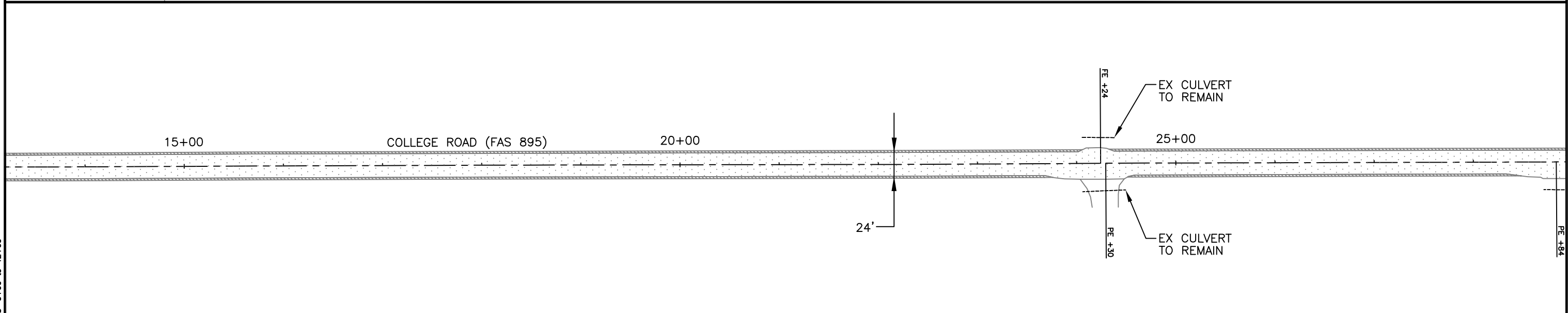
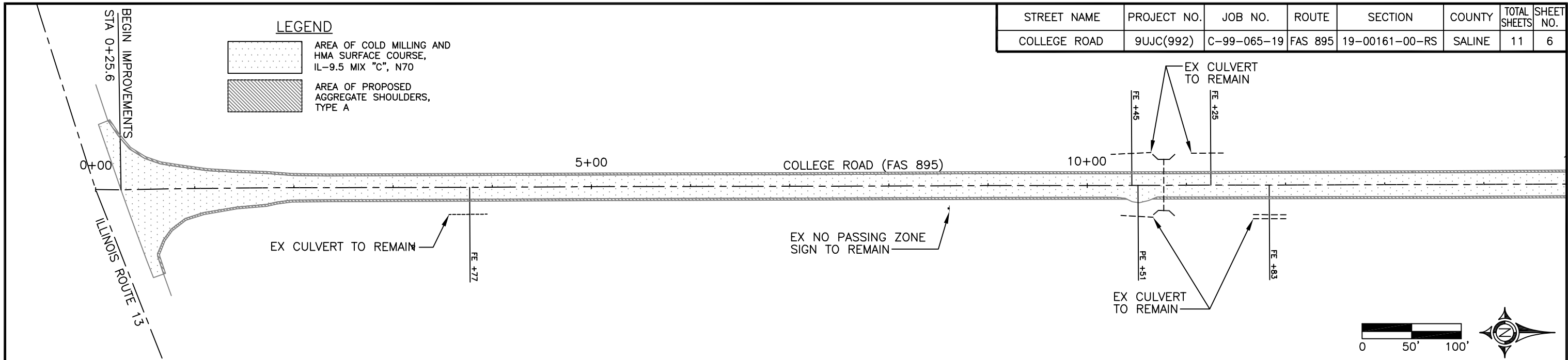
CONTRACT NO. 99705

28 Mar 2023 - 7:16am X:\2021\21104\AC\Plans\21104 Box Culvert Extension Details.dwg: Layout Tab Typical Details

STREET NAME	PROJECT NO.	JOB NO.	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
COLLEGE ROAD	9UJC(992)	C-99-065-19	FAS 895	19-00161-00-RS	SALINE	11	6

LEGEND

-  AREA OF COLD MILLING AND HMA SURFACE COURSE, IL-9.5 MIX "C", N70
-  AREA OF PROPOSED AGGREGATE SHOULDERS, TYPE A





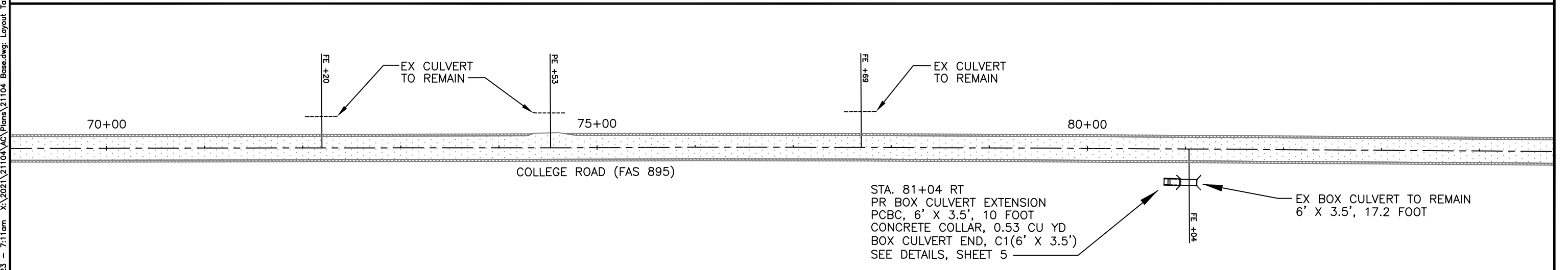
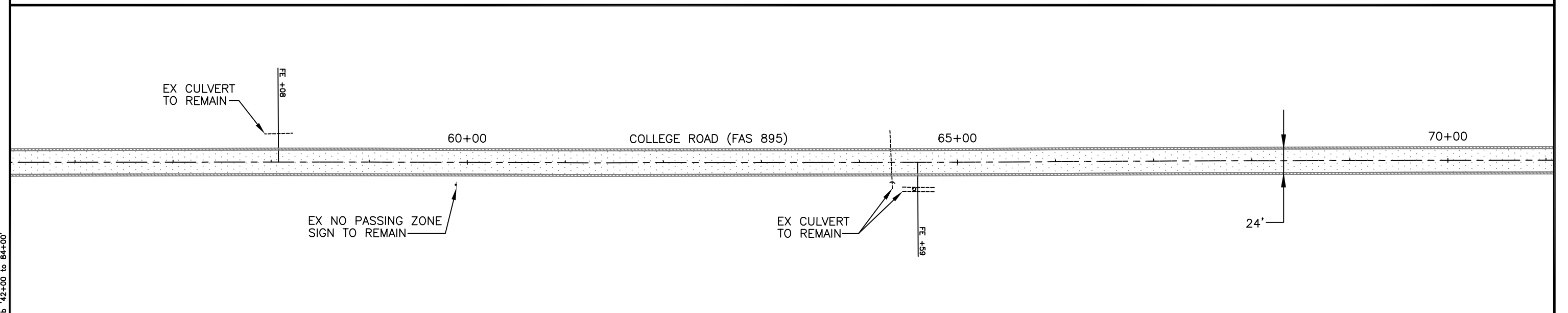
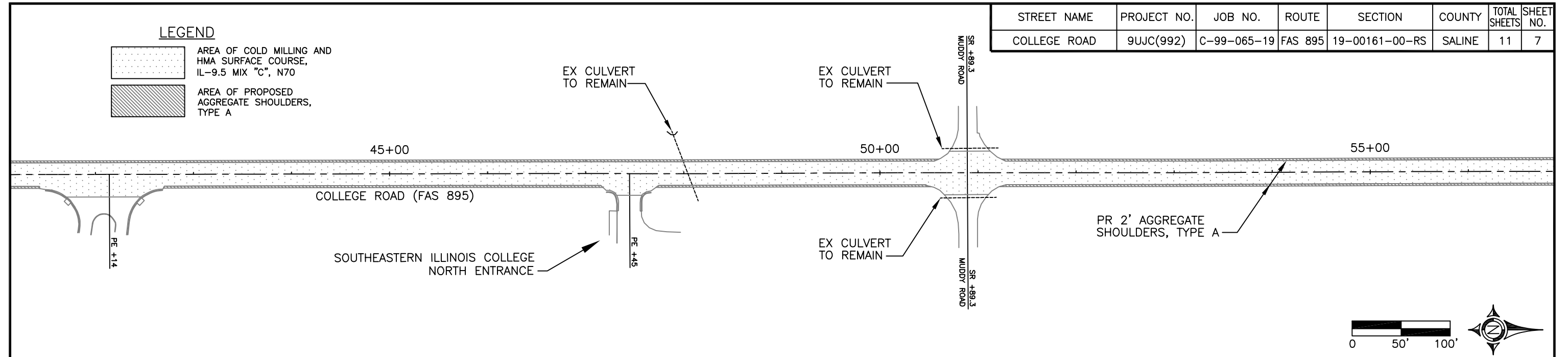
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CONTRACT NO. 99705

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COLLEGE ROAD	9UJC(992)	C-99-065-19	FAS 895	19-00161-00-RS	SALINE	11	7

LEGEND

-  AREA OF COLD MILLING AND HMA SURFACE COURSE, IL-9.5 MIX "C", N70
-  AREA OF PROPOSED AGGREGATE SHOULDERS, TYPE A



STA. 81+04 RT
 PR BOX CULVERT EXTENSION
 PCBC, 6' X 3.5', 10 FOOT
 CONCRETE COLLAR, 0.53 CU YD
 BOX CULVERT END, C1(6' X 3.5')
 SEE DETAILS, SHEET 5

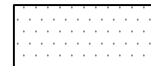

EX BOX CULVERT TO REMAIN
 6' X 3.5', 17.2 FOOT

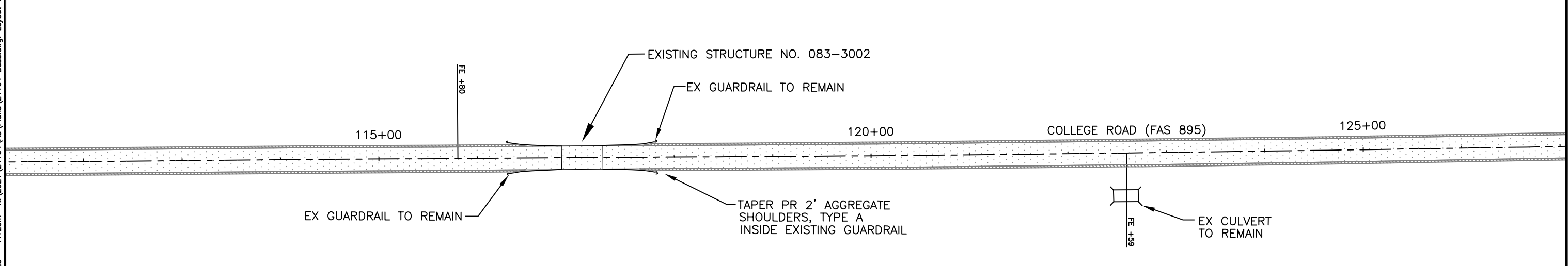
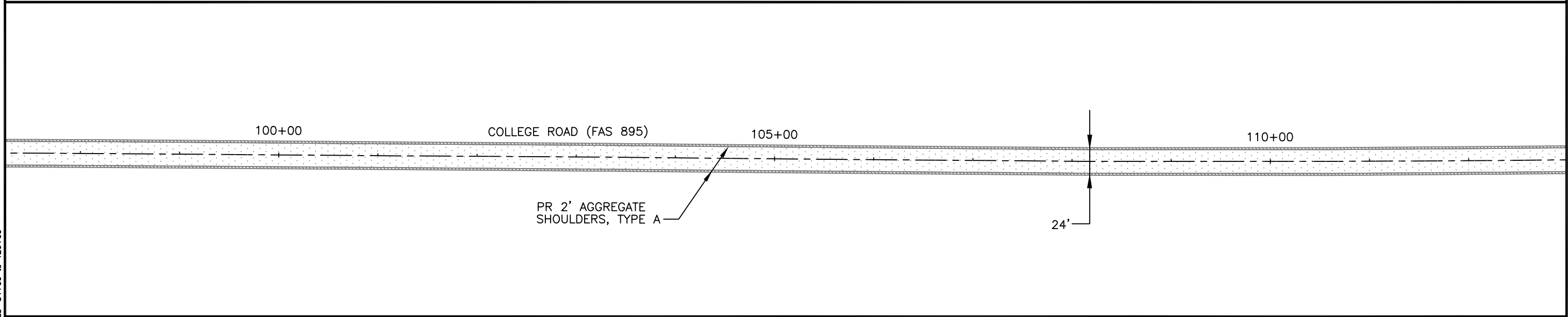
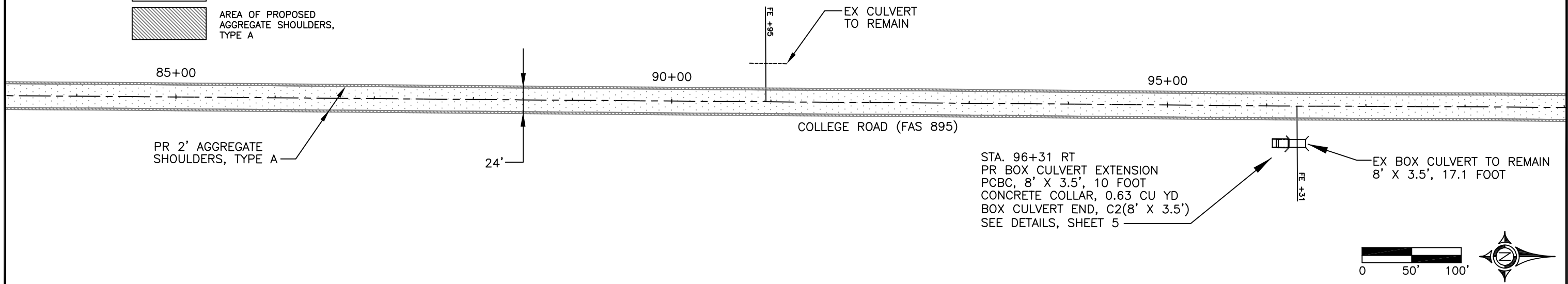
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LEGEND

-  AREA OF COLD MILLING AND HMA SURFACE COURSE, IL-9.5 MIX "C", N70
-  AREA OF PROPOSED AGGREGATE SHOULDERS, TYPE A

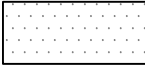



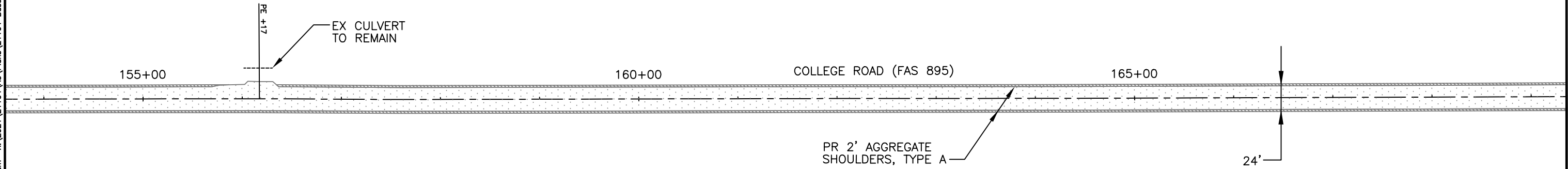
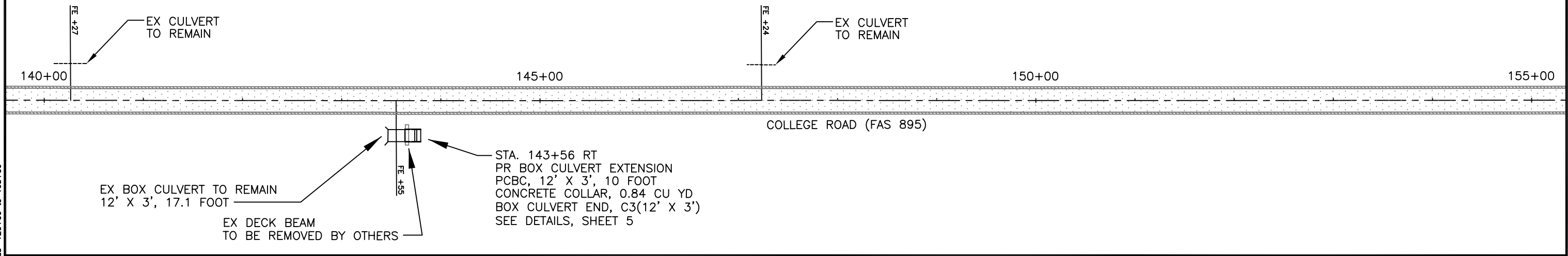
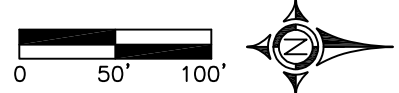
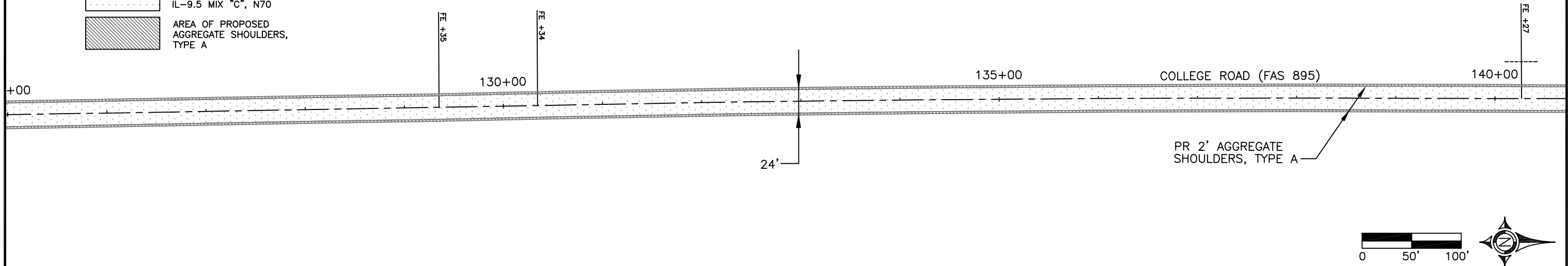
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LEGEND

-  AREA OF COLD MILLING AND HMA SURFACE COURSE, IL-9.5 MIX "C", N70
-  AREA OF PROPOSED AGGREGATE SHOULDERS, TYPE A





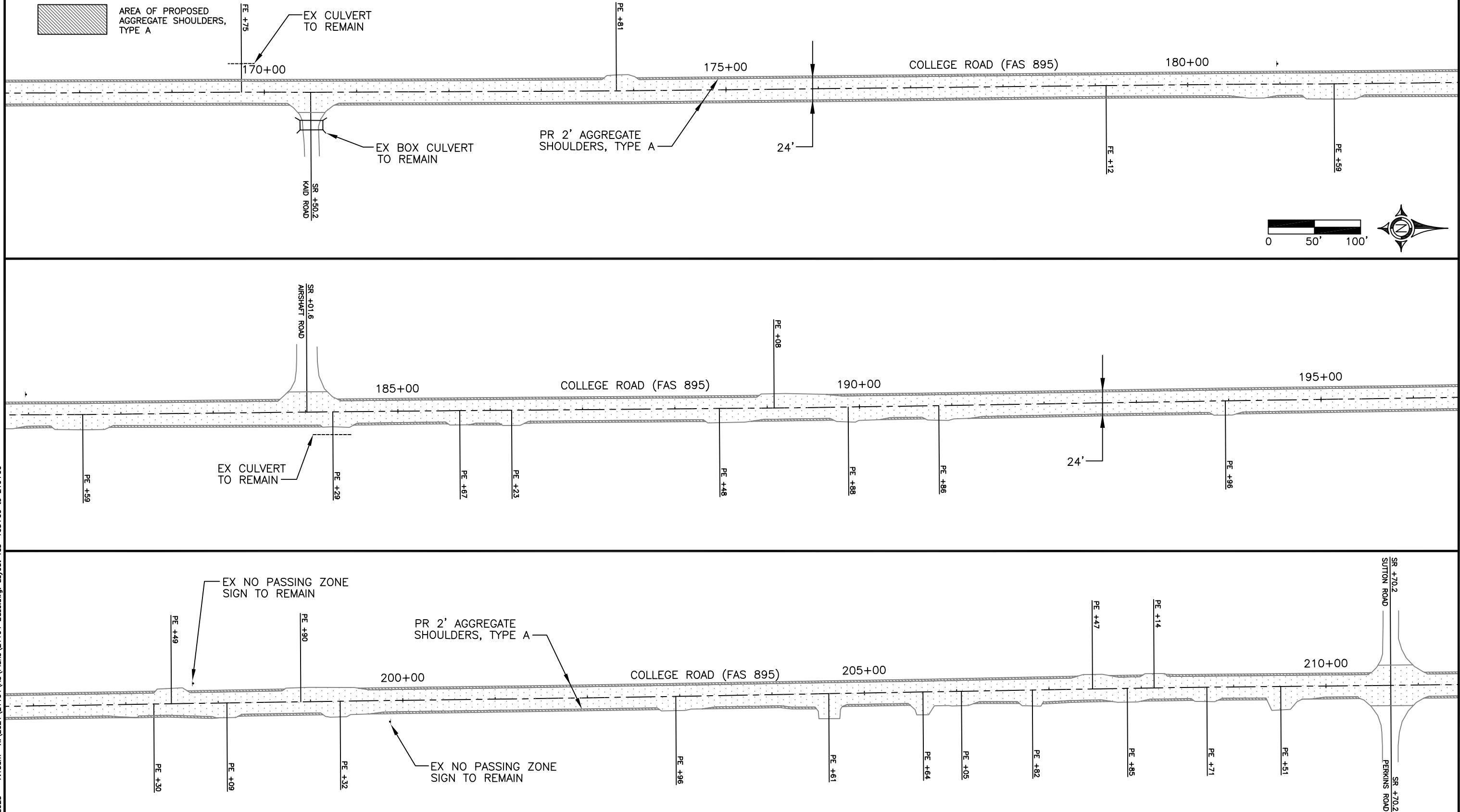
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COLLEGE ROAD	9UJC(992)	C-99-065-19	FAS 895	19-00161-00-RS	SALINE	11	10

LEGEND

-  AREA OF COLD MILLING AND HMA SURFACE COURSE, IL-9.5 MIX "C", N70
-  AREA OF PROPOSED AGGREGATE SHOULDERS, TYPE A

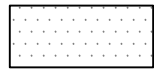



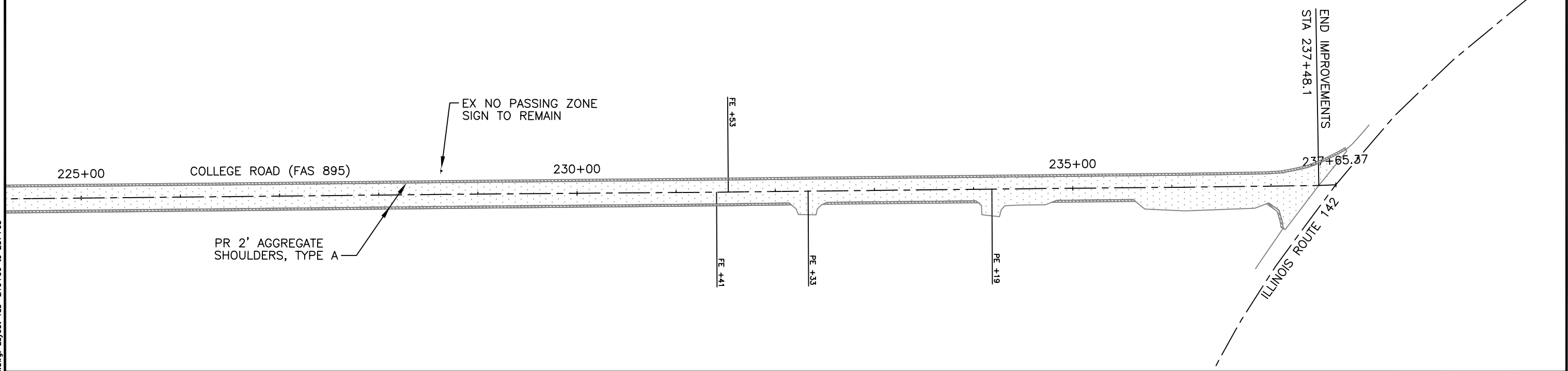
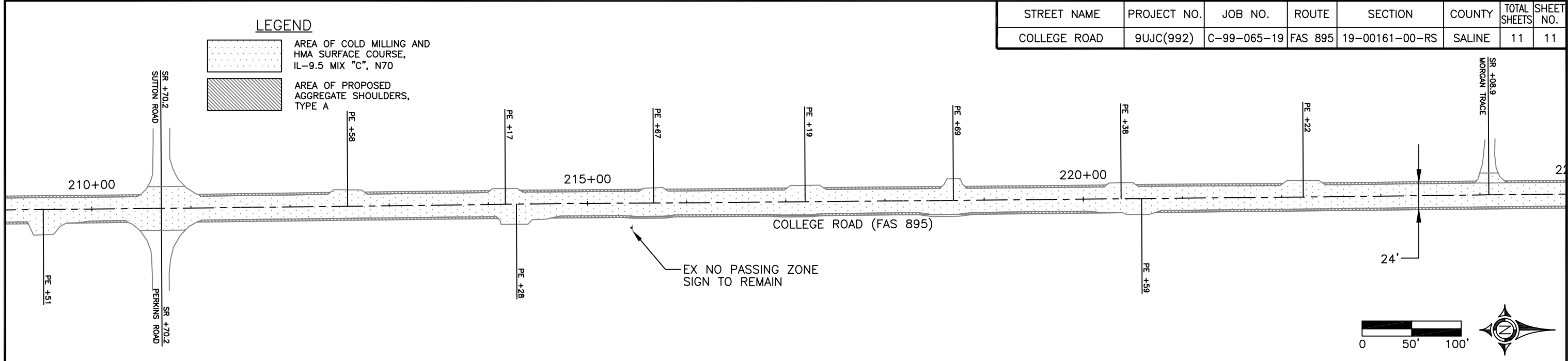
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-  AREA OF PROPOSED AGGREGATE SHOULDERS, TYPE A



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CONTRACT NO. 99705