

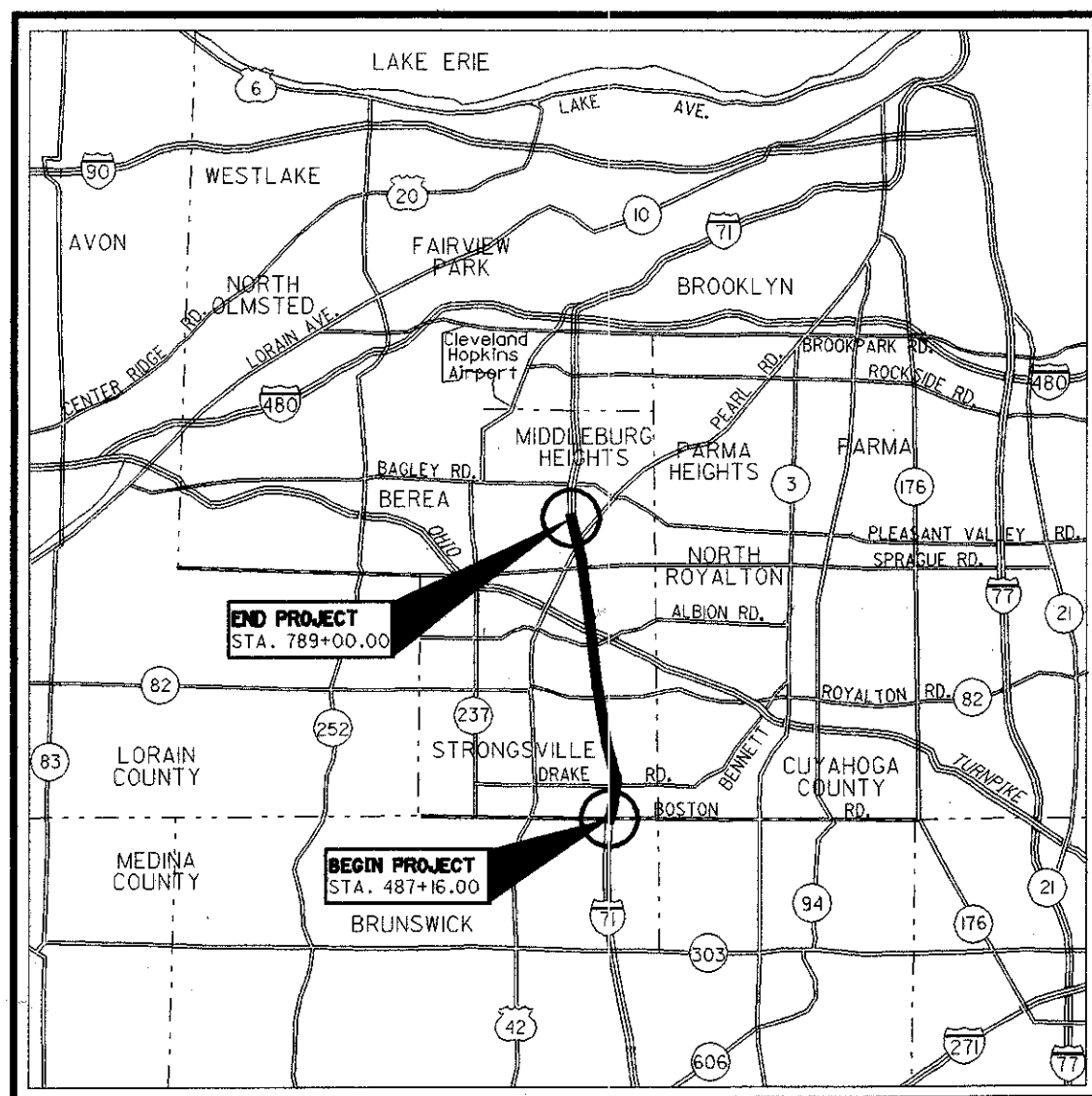
PLOT SUBMITTED: 06-AUG-1998 05:43

CUY-71-0.00  
980748  
361105

DIST. 12

PL# 15717

PLOTTED BY: fkonopka  
PLOTTED FROM: 1:\users\eforsber\p\d08459\dgn\08459gta.dgn



LOCATION MAP

LATITUDE: N41°18'30" LONGITUDE: W81°48'00"



PORTION TO BE IMPROVED  
U.S. ROUTES  
INTERSTATE ROUTES  
STATE ROADS  
OTHER ROADS

DESIGN DESIGNATION

Table with design data: CURRENT ADT (1995) 76,410; DESIGN YEAR ADT (2020) 105,570; DESIGN HOURLY VOLUME (2020) 10,557; DIRECTIONAL DISTRIBUTION 60%; TRUCKS (24 HOUR B&C) 6%; DESIGN SPEED 65 MPH; LEGAL SPEED 60 MPH.

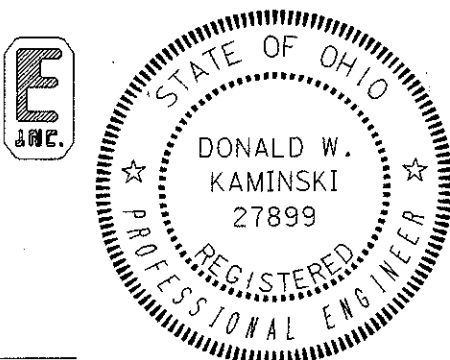
DESIGN FUNCTIONAL CLASSIFICATION - INTERSTATE (URBAN)

DESIGN EXCEPTIONS:

VERTICAL CLEARANCE  
APPROVAL DATE: JANUARY 7, 1994

PREPARED AND RECOMMENDED BY

EUTHEMICS INC. CONSULTING ENGINEERS CLEVELAND, OHIO



D.W. KAMINSKI

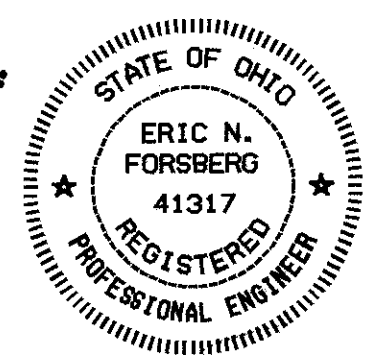
D.W. KAMINSKI

UNDERGROUND UTILITIES

TWO WORKING DAYS BEFORE YOU DIG  
CALL 1-800-362-2764 (TOLL FREE)  
OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

ROADWAY PLANS PREPARED BY:

OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT 12  
LOCATION & DESIGN



STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION  
CUY-71-0.00  
CITIES OF BRUNSWICK, STRONGSVILLE  
AND MIDDLEBURG HEIGHTS  
MEDINA COUNTY  
CUYAHOGA COUNTY

INDEX OF SHEETS:

Table listing sheet titles and numbers: TITLE SHEET 1; SCHEMATIC PLAN 2-4; GENERAL NOTES 13-17; MISCELLANEOUS DETAILS 200-207; STRUCTURES OVER 20' PLANS 287-289, 289A-289H.

SHEETS NOT USED.... 282

2001 ADD LANE PROJECT FROM  
MEDINA COUNTY LINE (SLM 0.00)  
TO NORTH OF PEARL ROAD (SLM 5.69)

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS table with columns for drawing ID, date, and description.

PROJECT DESCRIPTION:

THIS PROJECT INVOLVES THE WIDENING AND UPGRADING OF I-71 FROM THE MEDINA COUNTY LINE NORTH TO ONE QUARTER MILE NORTH OF PEARL ROAD (US-42). MAJOR WORK ITEMS INCLUDE PAVEMENT REPLACEMENT, DRAINAGE UPGRADING, ASPHALT CONCRETE OVERLAY (RAMPS), STRUCTURE REHABILITATION, SIGNING AND PAVEMENT MARKINGS.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE REVISED CODE OF OHIO.

1997 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH IN THE PLANS AND ESTIMATES.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (1) OF THE REVISED CODE OF OHIO, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE ERECTED.

APPROVED [Signature] DATE 6 AUG 98 DISTRICT DEPT. DIRECTOR

APPROVED [Signature] DATE 8-27-98 DIRECTOR, DEPARTMENT OF TRANSPORTATION

SOME ADDITIONAL STORM SEWERS LESS THAN 36" INSTALLED AND SOME EXISTING STORM SEWERS MODIFIED.

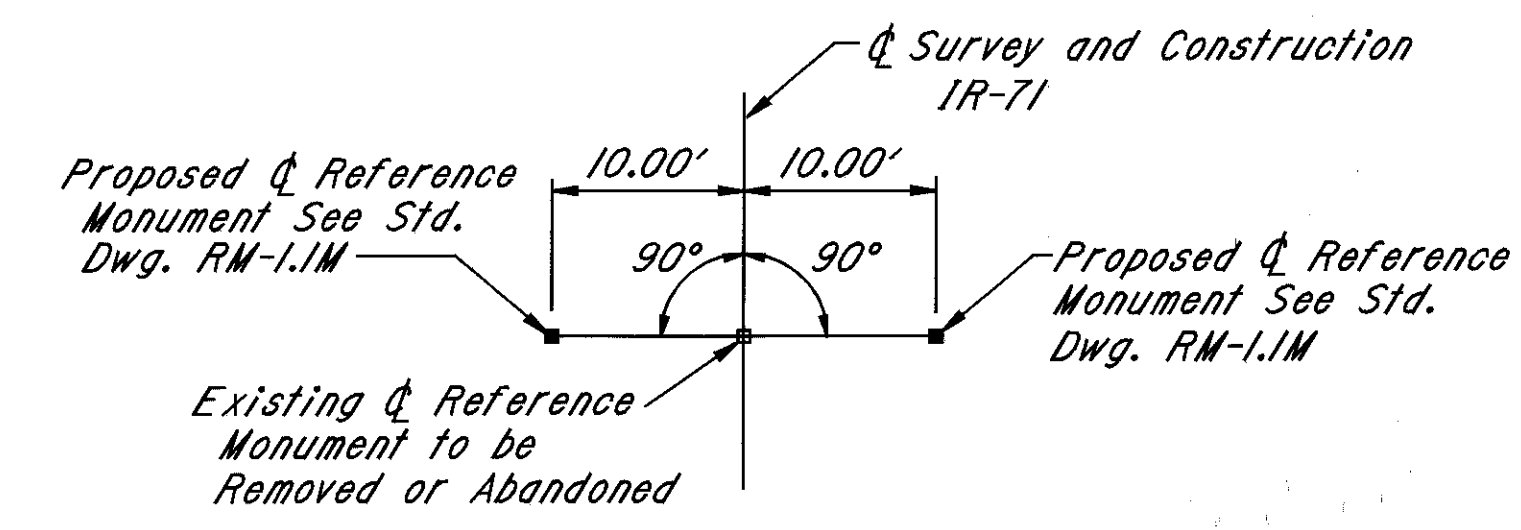
FEDERAL PROJECT NO. 100% STATE  
P.L.D. NO. S. 5575(PE), 8459(PE)  
CONSTRUCTION PROJECT NO. 15717(CONSTR)  
RAILROAD INVOLVEMENT NONE  
CUYAHOGA COUNTY CUY-71-0.00







# SCHEMATIC PLAN



**Curve 3 Data**  
 PI Sta. 593+34.87  
 Dc = 0°28'00"  
 $\Delta$  = 14°32'11"  
 R = 12277.67'  
 T = 1565.88'  
 L = 3114.94'  
 E = 99.45'  
 Ch = 3106.59'

**PROPOSED AND EXISTING  $\phi$  REFERENCE MONUMENT DETAIL**  
 No Scale

CFN 180710195  
 SLM 1.95, 30"

LOCATION OF EXISTING OR PROPOSED MONUMENTS			
STATION	LOCATION	REMOVE	ADD
590+00	$\phi$ Survey	/	/
595+00	"	/	/
600+00	"	/	/
605+00	"	/	/
608+83.93	P.T.	/	/
614+00	"	/	/
620+00	"	/	/
625+00	"	/	/
630+00	"	/	/
635+00	"	/	/
640+00	"	/	/
645+00	"	/	/
650+00	$\phi$ Survey	/	/
655+00	10' LT. $\phi$		/
655+00	10' RT. $\phi$		/
655+00	$\phi$ Survey	ABAN.	
661+00	$\phi$ Survey	/	/
668+99.38	P.C.	10' LT. $\phi$	ABAN.
668+99.38	P.C.	10' RT. $\phi$	ABAN.
668+99.38	P.C.	$\phi$ Survey	/
675+50	"	/	/
682+00	"	/	/
688+00	$\phi$ Survey	/	/
Total Pay Item 202-Monument Assembly Removed =17 Each			
Total Pay Item 604-Reference Monument			20 Each

CFN 180710202  
 SLM 2.02, 24"

CFN 180710301  
 SLM 3.01, 72"

CFN 180710312  
 SLM 3.12, 48"

VALLEY PARKWAY  
 SLM 3.32 = MM 232.03

CFN 180710358  
 SLM 3.58, 30"

CFN 180710378  
 SLM 3.78, 78"

**Curve 4 Data**  
 PI Sta. 681+66.80  
 Dc = 0°28'00"  
 $\Delta$  = 11°47'15"  
 R = 12277.67'  
 T = 1267.42'  
 L = 2525.89'  
 E = 65.24'  
 Ch = 2521.44'

PLOTTED BY: fkonopka  
 PLOTTED: 10/10/98  
 PLOT SUBMITTED: 29-JUL-1998 12:15  
 307SCM2.DGN  
 307SCM2.dgn  
 ipid08459@dgn307scm2.dgn

<b>EUTHEMICS INC.</b>		
CONSULTING ENGINEERS CLEVELAND, OHIO		
DESIGNED BY DATE: 1-30-92	CHECKED BY DATE: 3-1-94	DRAWN BY SCALE: AS SHOWN



ALBION ROAD  
SLM 3.84 = MM 232.55

# SCHEMATIC PLAN

TURNPIKE RAMPS  
SLM 4.37 = MM 233.08

CALC. BY MEK DATE 11-24-92 CHRD. BY RSW DATE 3-2-94	CUY-71-0.00	OHIO FHWA REGION 5 FEDERAL PROJECT	4 361
--------------------------------------------------------------	-------------	------------------------------------------	----------



**Curve 4 Data (Albion Road)**  
 PC Sta. 46+68.53  
 PT Sta. 49+81.90  
 PI Sta. 48+25.69  
 $\Delta = 10^{\circ}58'04''$   
 $R = 1637.02'$   
 $T = 157.16'$   
 $L = 313.37'$   
 $E = 7.53'$   
 $Ch = 312.89'$

CFN 180710405  
SLM 4.05, 48"

WHITNEY ROAD  
SLM 4.67 = MM 233.38

**Curve 4 Data**  
 PI Sta. 681+66.80  
 $Dc = 00^{\circ}28'00''$   
 $\Delta = 11^{\circ}47'15''$   
 $R = 12277.67'$   
 $T = 1267.42'$   
 $L = 2525.89'$   
 $E = 65.24'$   
 $Ch = 2521.44'$

OHIO TURNPIKE  
SLM 3.95 = MM 232.66

**Curve 5 Data**  
 PI Sta. 763+76.54  
 $Dc = 00^{\circ}28'00''$   
 $\Delta = 08^{\circ}41'36''$   
 $R = 12277.67'$   
 $T = 933.22'$   
 $L = 1862.86'$   
 $E = 35.42'$   
 $Ch = 1861.07'$

CFN 180710422  
SLM 4.22, 84"

PEARL ROAD  
SLM 5.52 = MM 234.23

CFN 180710498  
SLM 4.98, 96"

STATION	LOCATION	REMOVE	ADD
694+25.27	P.T. & SURVEY	/	/
702+00	"	/	/
712+00	"	/	/
720+00	& SURVEY	/	/
730+00	10' Lt. &	/	/
730+00	10' Rt. &	/	/
740+00	10' Lt. &	/	/
740+00	10' Rt. &	/	/
748+00	& SURVEY	/	/
754+43.32	P.C.	/	/
764+00	"	/	/
773+06.18	P.T.	/	/
778+00	"	/	/
784+00	& SURVEY	ABAN.	/
784+00	10' Lt. &	/	/
784+00	10' Rt. &	/	/
Item 202 - Monument Assembly Removed 13 Each			
Item 604-Reference Monument - 15 Each			

CFN 180710505  
SLM 5.00, 42"

CFN 180710522  
SLM 5.22, 48"

SPRAGUE ROAD  
SLM 5.20 = MM 233.91

CFN 180710535  
SLM 5.35, 24"

**EUTHEMICS INC.**  
 CONSULTING ENGINEERS  
 CLEVELAND, OHIO

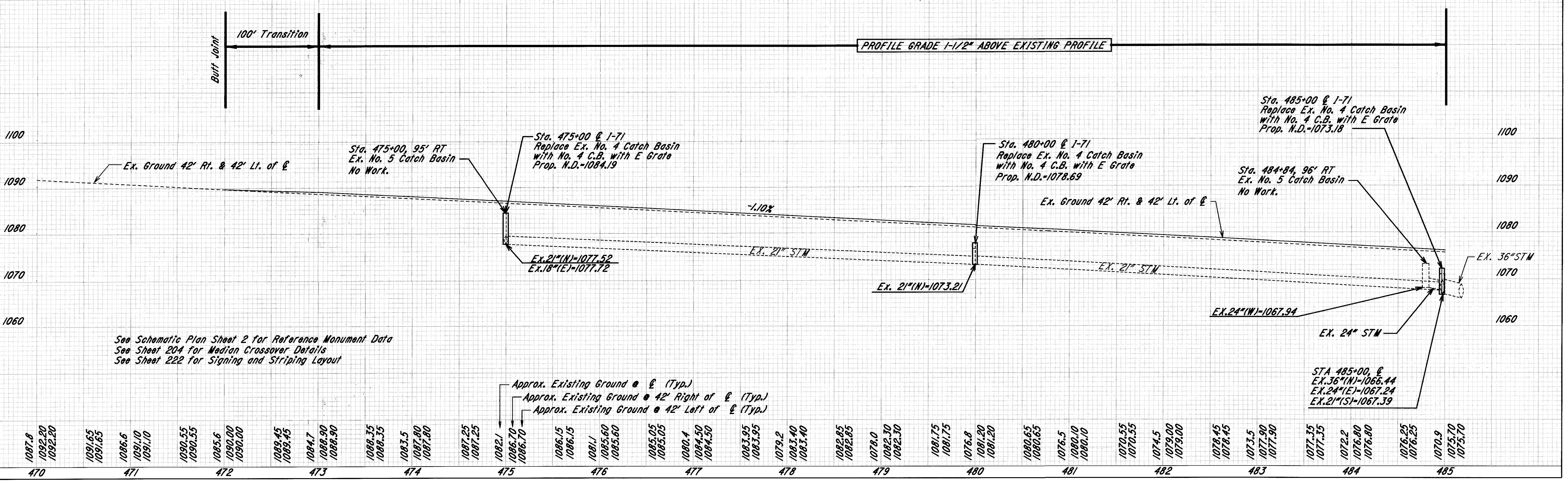
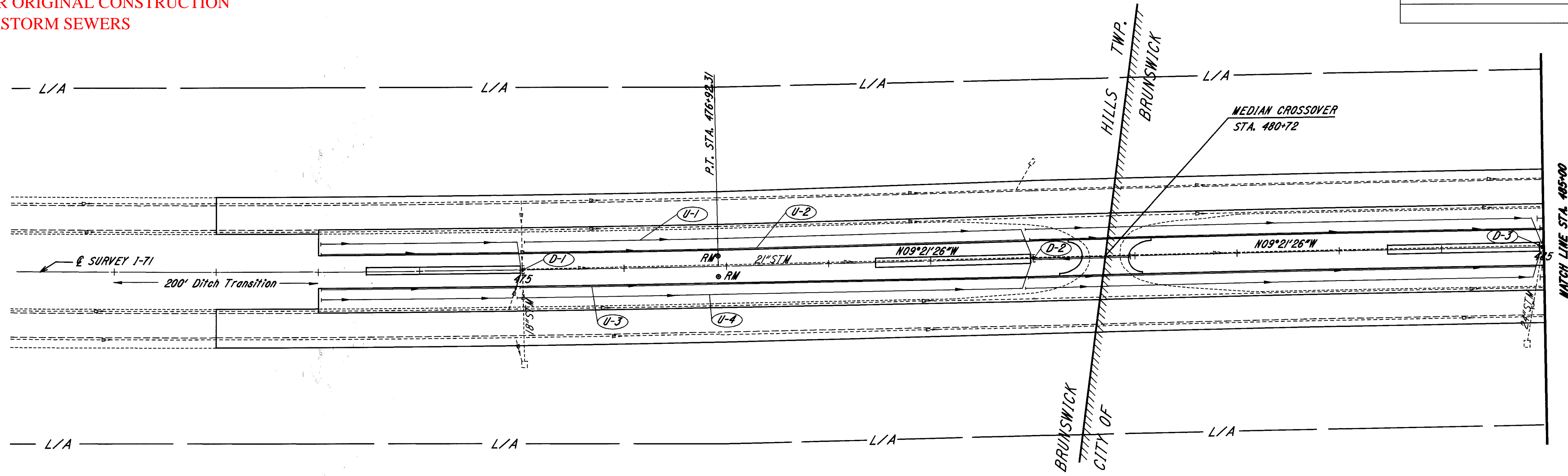
DESIGNED: MEK DATE: 11-24-92	CHECKED: RSW DATE: 3-2-94	DRAWN: MEK SCALE: AS SHOWN
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SEE 1963 CUY-71-0.00 PLANS  
FOR ORIGINAL CONSTRUCTION  
OF STORM SEWERS

CUY-71-0.00

OHIO  
FHWA REGION 5  
FEDERAL PROJECT  
80  
361



See Schematic Plan Sheet 2 for Reference Monument Data  
See Sheet 204 for Median Crossover Details  
See Sheet 222 for Signing and Striping Layout

Approx. Existing Ground @  $\ell$  (Typ.)  
Approx. Existing Ground @ 42' Right of  $\ell$  (Typ.)  
Approx. Existing Ground @ 42' Left of  $\ell$  (Typ.)

I-71 PLAN & PROFILE STA. 470+00 TO STA. 485+00

PLOTTED BY: fkonopka  
 PLOTTED FOR: sberr  
 PLOT SUBMITTED: 04-AUG-1998 12:13  
 307PP01B.DGN  
 307PP01B.dgn



\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE

REF. NO.	STATION		SIDE	603		604		605				670	604
	FROM	TO		6" Conduit, Type F ##	Catch Basin, No. 4 With E-Grate, As Per Plan	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet	
				Lin.Ft.	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Each	
U-1	473+00	485+00	Lt.				1200	1200		36			
U-2	473+00	485+00	Lt.	45		1200							
U-3	473+00	485+00	Rt.	45		1200							
U-4	473+00	485+00	Rt.				1200			36			
D-1	473+50	475+00	℄		1						125		
D-2	478+50	480+00	℄		1						125		
D-3	483+50	485+00	℄		1						125		
TOTALS				90	3	2400	2400			72	375		

PLOT SUBMITTED: 31-JUL-1998 07:55

PLOTTED BY: fkonopka  
PLOTTED: 8/10/98 10:45 AM  
3070J01B.DGN

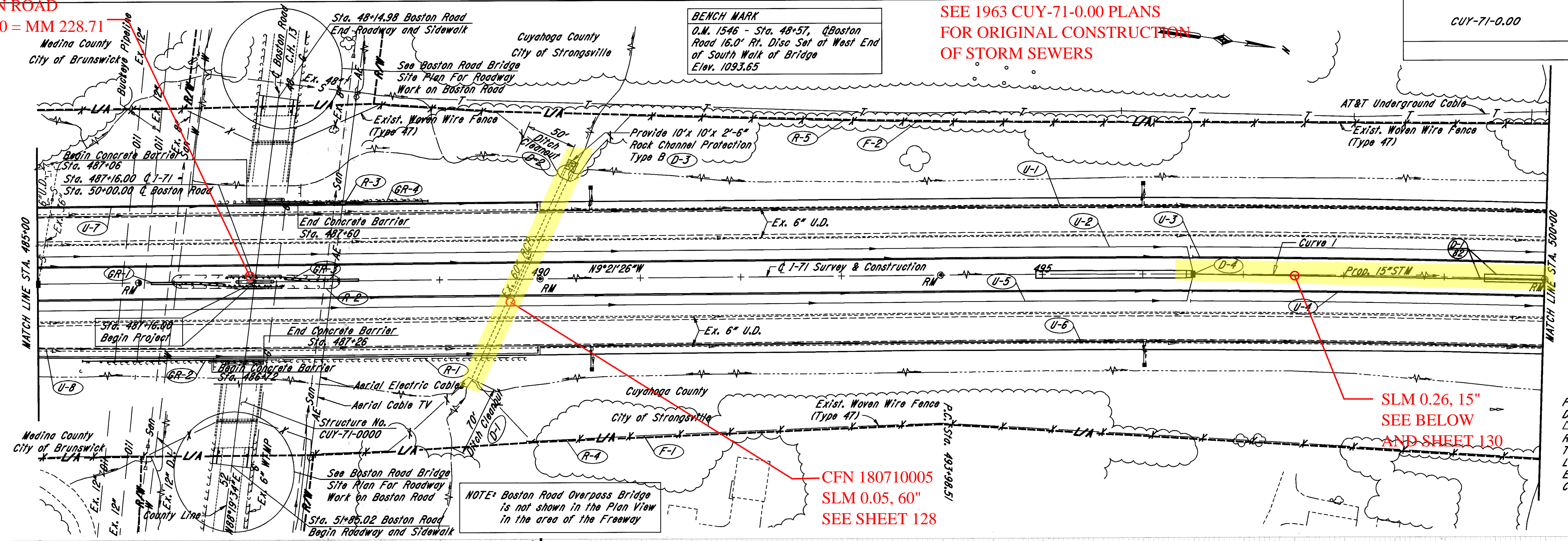


SEE 1963 CUY-71-0.00 PLANS FOR ORIGINAL CONSTRUCTION OF STORM SEWERS

BENCH MARK  
O.M. 1546 - Sta. 48+57, Boston Road 16.0' Rt. Disc Set at West End of South Walk of Bridge  
Elev. 1093.65

PLOT SUBMITTED: 04-AUG-1998 11:56

PLOTTED BY: fkonopka  
PLOTTER: PLOTTERS FOR SBERR@PI08459@DGN@307PP01.DGN

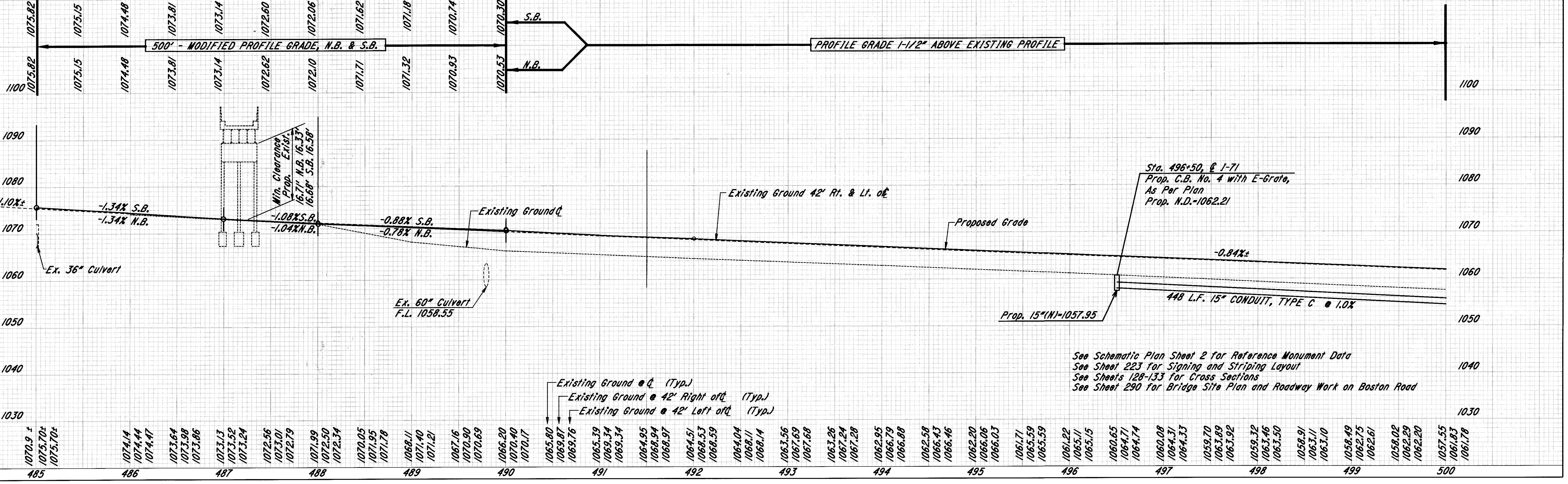


Curve 1 Data  
PI Sta. 500+00.01  
Dc = 0°20'00"  
Δ = 4°00'30"  
R = 17188.73'  
T = 601.50'  
L = 1202.50'  
E = 10.52'  
Ch = 1202.25'

CFN 180710005  
SLM 0.05, 60"  
SEE SHEET 128

SLM 0.26, 15"  
SEE BELOW  
AND SHEET 130

NOTE: Boston Road Overpass Bridge is not shown in the Plan View in the area of the Freeway



See Schematic Plan Sheet 2 for Reference Monument Data  
See Sheet 223 for Signing and Striping Layout  
See Sheets 128-133 for Cross Sections  
See Sheet 290 for Bridge Site Plan and Roadway Work on Boston Road

I-71 PLAN & PROFILE STA. 485+00 TO STA. 500+00



\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

REF. NO.	STATION		SIDE	DRAINAGE										
				601		603		604		605		670	604	
				Rock Channel Protection, Type B Without Filter	6" Conduit, Type F **	Catch Basin, No. 4 With E-Grate, As Per Plan	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet	
FROM	TO	Lin.Ft.	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Each					
U-1	485+00	500+00	Lt.	20							2			
U-2	485+00	500+00	Lt.	15										
U-3	485+00	500+00	Lt.				1500							
U-4	485+00	500+00	Lt.				1500							
U-5	485+00	500+00	Rt.	15			1500							
U-6	485+00	500+00	Rt.	10				1500	22	13				
U-7	485+00	490+00	Rt.	10			500				2			
U-8	485+00	490+00	Rt.	10			500							
TOTALS				9	80		1	4000	3000	3000	44	26	125	4
D-3	490+26	490+26	Lt.	9										
D-4	494+95	496+50	Q				1					125		

REF. NO.	STATION		SIDE	ROADWAY		
				202		203
				Guardrail Removed	Fence Removed	Ditch Cleanout
FROM	TO		Lin. Ft.	Lin. Ft.	Lin. Ft.	
R-1	485+68	489+85	Rt.	417		
R-2	486+33	488+01	Lt./Rt.	336		
R-3	486+75	488+83	Lt.	203		
R-4	487+19	500+00	Rt.		1336	
R-5	487+56	500+00	Lt.		1300	
TOTALS				956	2636	120

REF. NO.	STATION		SIDE	GUARDRAIL								622	448	203
				606								622	448	203
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Bridge Terminal Assembly, Type I	Guardrail, Type 5A	Guardrail, Barrier Design, Type 5	Impact Attenuator Type I-98	Conc. Barrier Type D, As Per Plan A	3" Asphalt Conc. Intermediate Course Type I, PG 64-22	Linear Grading, As Per Plan	
FROM	TO		Lin. Ft.	Each	Each	Each	Lin. Ft.	Lin. Ft.	Each	Lin. Ft.	Cu.Yd.	Lin. Ft.		
GR-1	486+47	487+34	Rt.			1							7.25	124
GR-2	485+55	487+25	Rt.	68.75	1		1					54	6.99	
GR-3	486+97	487+85	Lt.			1						25	7.25	124
GR-4	487+06	488+76.65	Lt.	68.75	1		1					54	6.99	
TOTALS				137.5	2	2	2	50	100	2	108	28.5	248	2.5 Stas.

BOSTON ROAD QUANTITIES

REF. NO.	STATION		SIDE	DRAINAGE				
				603		604		670
				12" Conduit Type B	Manhole, No. 5, As Per Plan	Catch Basin, No. 5A with V Grate	Ditch Erosion Protection	
FROM	TO	Lin.Ft.	Each	Each	Sq.Yd.			
D-1	48+00	48+00	Lt.		1			
D-2	48+00	48+27	Lt.	28				
D-3	48+27	48+27	Lt./Rt.	28				
D-4	51+73	51+73	Lt./Rt.	28				
D-5	51+73	52+50	Lt.	77				
D-6	52+50	52+50	Lt.		1			
D-7	487+58.2	487+82.2	Rt.				11	
D-8	486+80.1	487+05	Rt.				11	
D-9	487+27.6	487+52.5	Lt.				11	
D-10	486+49.3	486+74.4	Lt.				11	
TOTALS				161	2	4	44	

\* Stationed off @ 1-71

REF. NO.	STATION		SIDE	ROADWAY			
				202		608	
				Guardrail Removed	Walk Removed	8" Concrete Walk	4" Concrete Walk
FROM	TO		Lin. Ft.	Sq.Ft.	Sq.Ft.	Sq.Ft.	
R-1	47+93	48+43	Lt.	50			
R-2	48+10.5	48+48	Rt.	37.5			
R-3	48+31.24	48+42.74	Lt.		46		
R-4	48+35.24	48+47.74	Rt.		50		
R-5	51+52	52+64.5	Lt.	112.5			
R-6	51+57	51+94.5	Rt.	37.5			
R-7	51+52.26	51+64.76	Lt.		50		
R-8	51+57.26	51+68.76	Rt.		46		
SW-1	48+14.98	48+31.24	Lt.				65
SW-2	48+14.98	48+35.24	Rt.				81
SW-3	48+31.24	48+42.74	Lt.		46		
SW-4	48+35.24	48+47.74	Rt.		50		
SW-5	51+52.26	51+64.76	Lt.		50		
SW-6	51+57.26	51+68.76	Rt.		46		
SW-7	51+64.76	51+85.02	Lt.				81
SW-8	51+68.76	51+85.02	Rt.				65
SW-9	487+02.3	487+58.2	Lt.				918
SW-10	486+74.4	487+29.6	Rt.				1020
TOTALS				237.5	192	192	2230

REF. NO.	STATION		SIDE	GUARDRAIL
				606
				Guardrail, Type 5
FROM	TO		Lin. Ft.	
GR-1	47+93	48+43	Lt.	50
GR-2	48+10.5	48+48	Rt.	37.5
GR-3	51+52	52+64.5	Lt.	112.5
GR-4	51+57	51+94.5	Rt.	37.5
TOTALS				237.5

See Bridge Site Plan Sheet 290 for Drainage Layout and Roadway Items on Boston Road

Note: Guardrail Terminal Assemblies are to be Reused.

REF. NO.	STATION		SIDE	FENCE
				607
				Fence, Type CLT
FROM	TO		Lin. Ft.	
F-1	487+19	500+00	Rt.	1336
F-2	487+56	500+00	Lt.	1300
TOTALS				2636

PLOTTED BY: lminceak  
 PLOTTED DATE: 08/05/05  
 PLOT SUBMITTED: 05-AUG-1998 11:40  
 307QU01.DGN  
 307QU01.DGN



SLM 0.26, 15"  
SEE SHEET 131

CFN 180710035  
SLM 0.35, 60"

CFN 180710034  
SLM 0.34, 113"x72"

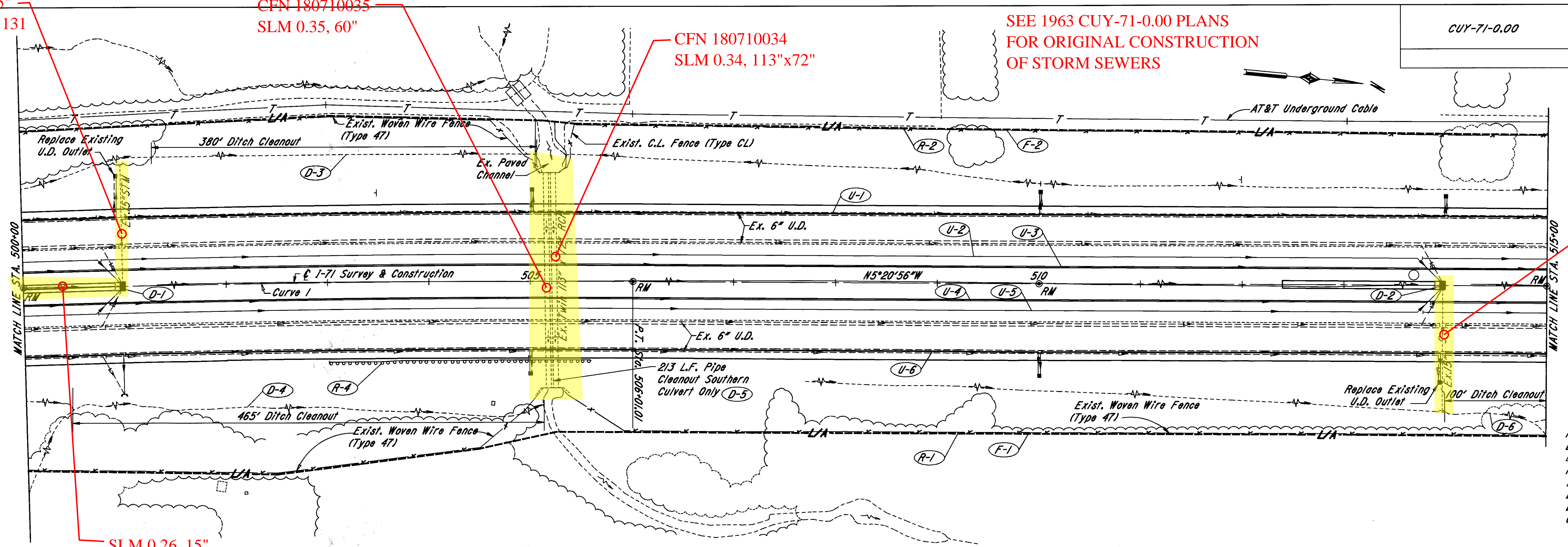
SEE 1963 CUY-71-0.00 PLANS  
FOR ORIGINAL CONSTRUCTION  
OF STORM SEWERS

OHIO
FHWA REGION 5
FEDERAL PROJECT

82  
361

PLOT SUBMITTED: 04-AUG-1998 11:56

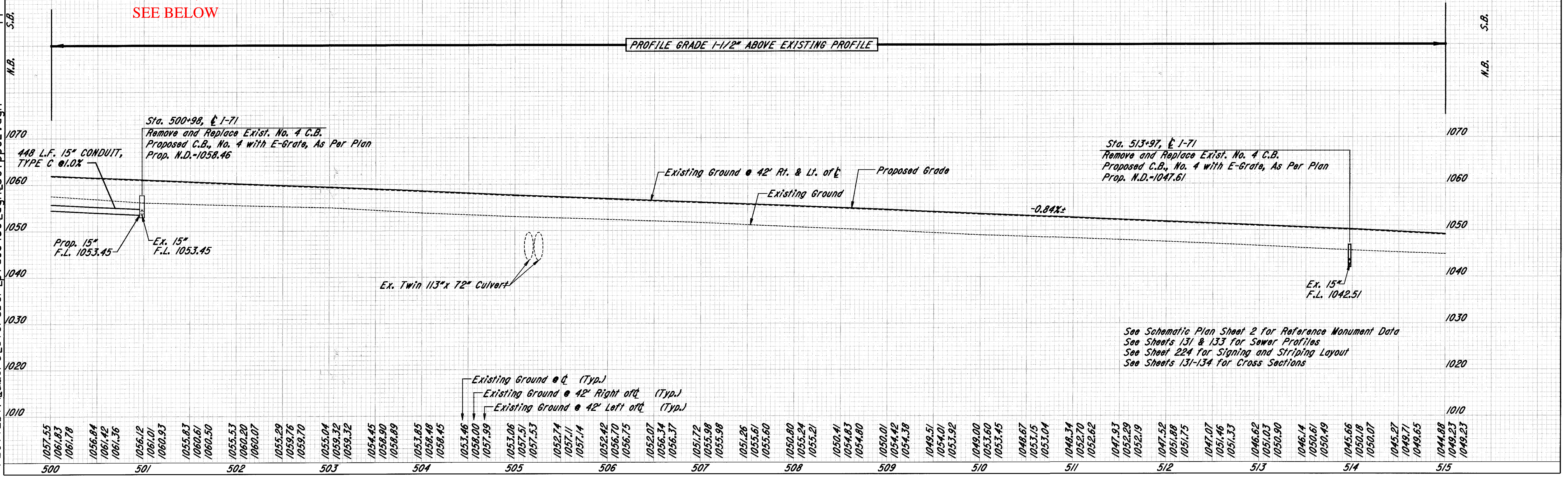
PLOTTED BY: fkonopka  
PLOTTED FOR: sberpi d08459 d307pp02.dgn



SLM 0.51, 15"  
SEE SHEET 133

SLM 0.26, 15"  
SEE BELOW

Curve 1 Data  
 PI Sta. 500+00.01  
 Δ = 0°20'00"  
 Δ = 4°00'30"  
 R = 17188.73'  
 T = 601.50'  
 L = 1202.50'  
 E = 10.52'  
 Ch = 1202.25'



See Schematic Plan Sheet 2 for Reference Monument Data  
 See Sheets 131 & 133 for Sewer Profiles  
 See Sheet 224 for Signing and Striping Layout  
 See Sheets 131-134 for Cross Sections

I-71 PLAN & PROFILE STA. 500+00 TO STA. 515+00



## 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

REF. NO.	STATION		DRAINAGE										
			603		604		605				670	604	
			6" Conduit, Type F #	15" Conduit, Type C	Catch Basin, No. 4 With E-Grate, A.P.F.	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet	
FROM	TO	Lin.Ft.	Lin.Ft.	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Each		
U-1	500+00	515+00	Lt.	60									
U-2	500+00	515+00	Lt.	30			1500				26		
U-3	500+00	515+00	Lt.				1500						
U-4	500+00	515+00	Rt.				1500						
U-5	500+00	515+00	Rt.	30				1500			26		
U-6	500+00	515+00	Rt.	60					1500	44			4
TOTALS				180	448	2	3000	3000	3000	88	52	250	8
D-1	496+50	500+98	℄		448	1						125	
D-2	500+98	500+98	℄			1						125	

REF. NO.	STATION		SIDE	ROADWAY				
				202		203	Special	
				Guardrail Removed	Fence Removed	Ditch Cleanout	Pipe Cleanout	
FROM	TO		Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.		
R-1	500+00	515+00	Rt.		1505			
R-2	500+00	515+00	Lt.		1539			
R-4	503+00	505+56	Rt.	256				
TOTALS				256	3044	945	213	
D-3	501+29	505+07	Lt.			380		
D-4	500+45	505+13	Rt.			465		
D-5	505+20	505+20	Rt./Lt.				213	
D-6	513+99	514+98	Rt.			100		

REF. NO.	STATION		SIDE	FENCE	
				607	
				Fence, Type CLT	Lin.Ft.
FROM	TO		Lin.Ft.		
F-1	500+00	515+00	Rt.	1505	
F-2	500+00	515+00	Lt.	1539	
TOTALS				3044	

PLOTTED BY: fkonopka  
 PLOTTED IN: 307qu02.dgn  
 PLOT SUBMITTED: 31-JUL-1998 08:00  
 307qu02.dgn



SEE 1963 CUY-71-0.00 PLANS  
FOR ORIGINAL CONSTRUCTION  
OF STORM SEWERS

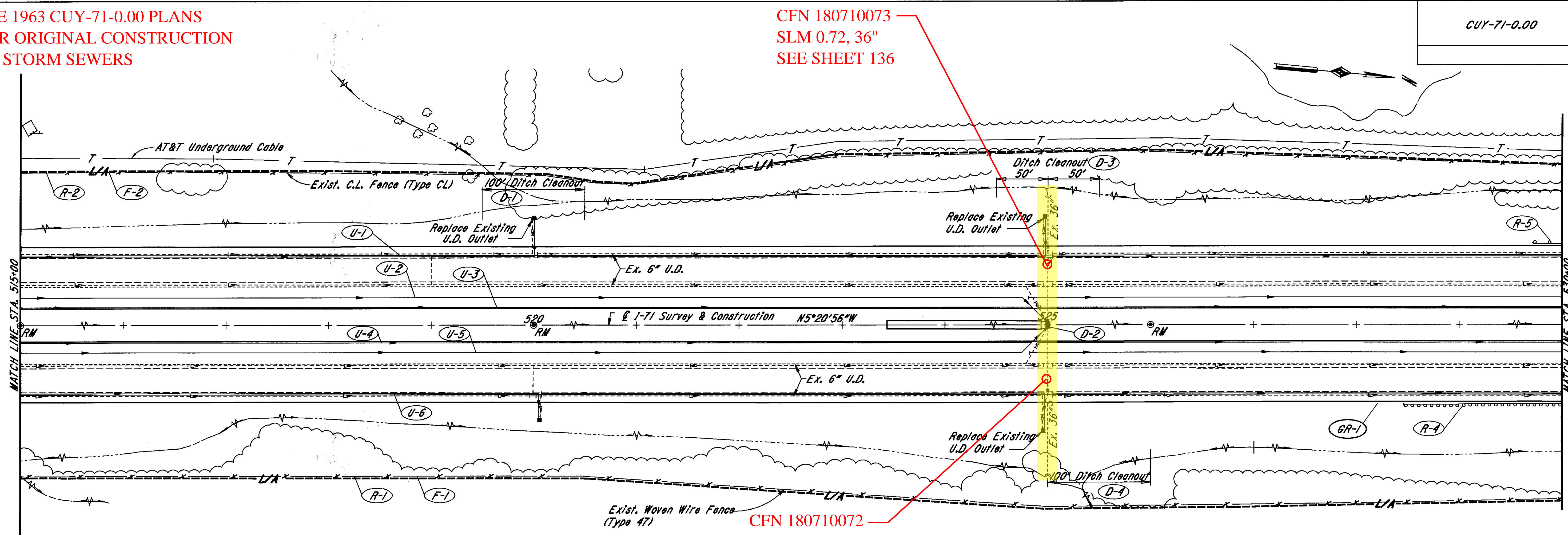
CFN 180710073  
SLM 0.72, 36"  
SEE SHEET 136

CUY-71-0.00

OHIO  
FHWA  
REGION 5  
FEDERAL  
PROJECT

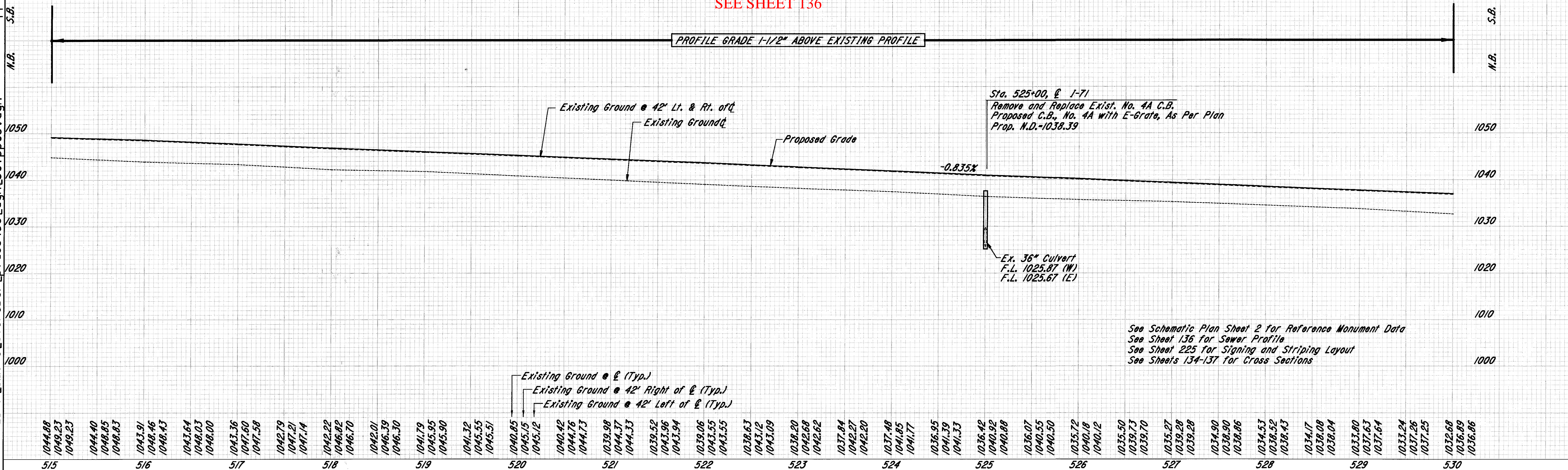
84  
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PLOT SUBMITTED: 04-AUG-1998 11:57



CFN 180710072  
SLM 0.72, 36"  
SEE SHEET 136

PLOTTED BY: fkonopka  
PLOTTER: FROMers@forber@pi d08459@dgndg307pp03.dgn



Sta. 525+00, E I-71  
Remove and Replace Exist. No. 4A C.B.  
Proposed C.B., No. 4A with E-Grate, As Per Plan  
Prop. N.D.-1038.39

See Schematic Plan Sheet 2 for Reference Monument Data  
See Sheet 136 for Sewer Profile  
See Sheet 225 for Signing and Striping Layout  
See Sheets 134-137 for Cross Sections

I-71 PLAN & PROFILE STA. 515+00 TO STA. 530+00



\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE													
REF. NO.	STATION		SIDE	603		604		605				670	604
				6" Conduit, Type F ##	Catch Basin, No. 4A With E-Grate, As Per Plan	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet	Each
FROM	TO												
U-1	515+00	530+00	Lt.	50				1500	1500	22			2
U-2	515+00	530+00	Lt.	15			1500				13		
U-3	515+00	530+00	Lt.			1500							
U-4	515+00	530+00	Rt.			1500							
U-5	515+00	530+00	Rt.	15			1500				13		
U-6	515+00	530+00	Rt.	50				1500	22				2
TOTALS					130	1	3000	3000	3000	44	32	125	4

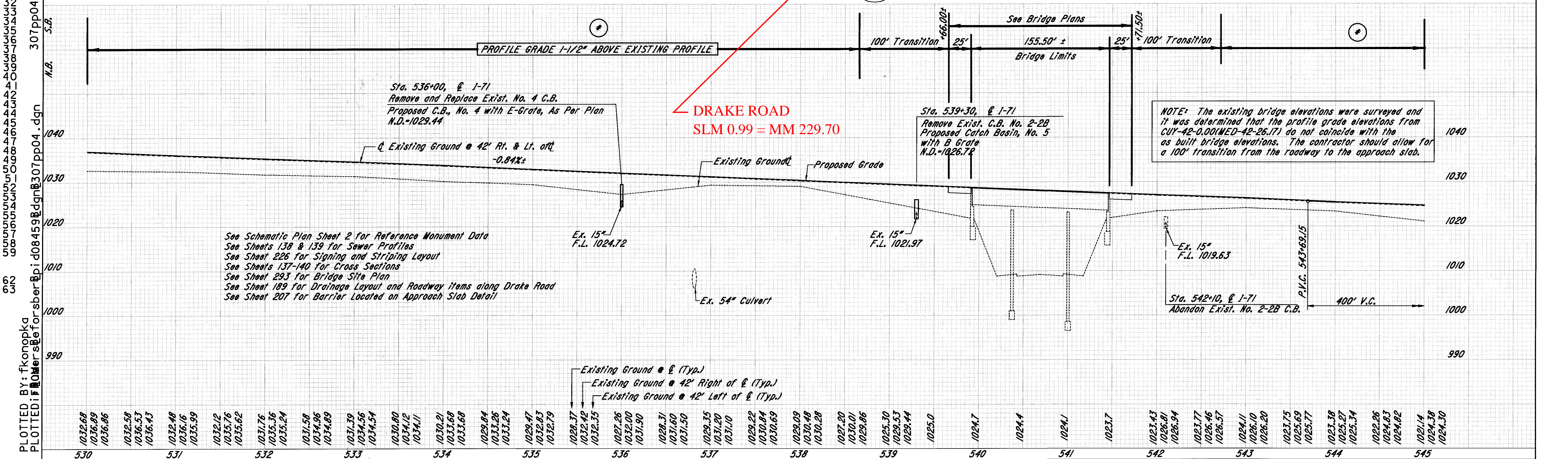
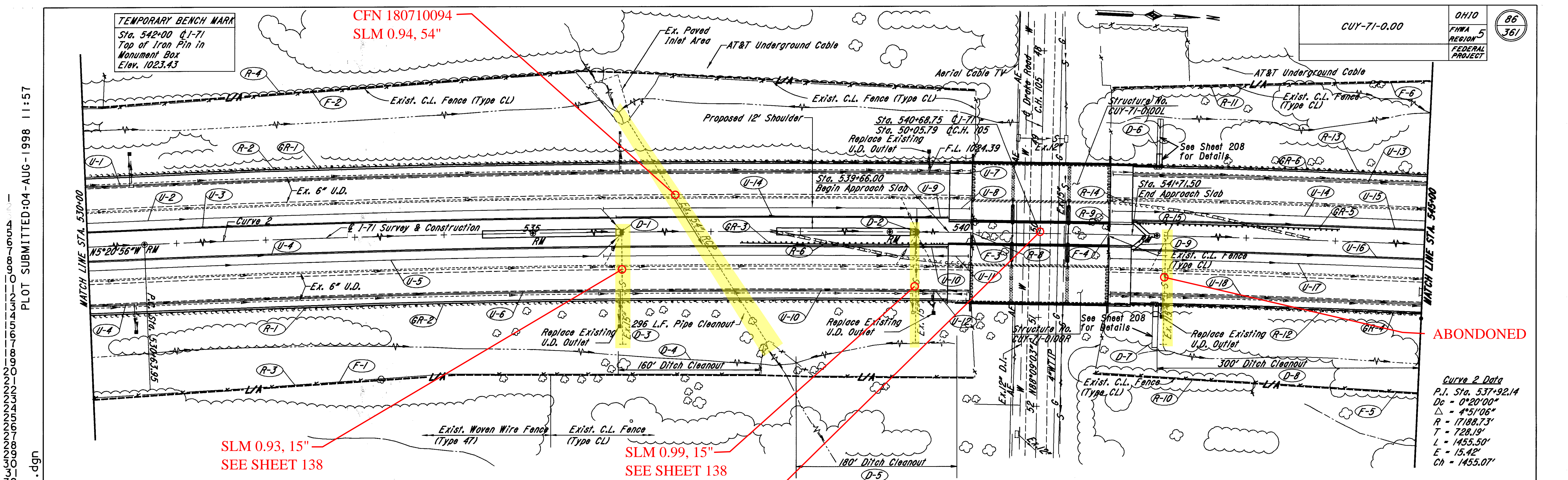
ROADWAY							
REF. NO.	STATION		SIDE	202		203	
				Guardrail Removed	Fence Removed	Ditch Cleanout	
							Lin.Ft.
FROM	TO						
R-1	515+00	530+00	Rt.		1501		
R-2	515+00	530+00	Lt.		1503		
R-4	528+46	530+00	Rt.	154			
R-5	529+71.5	530+00	Lt.	28.5			
D-1	519+50	520+50	Lt.				100
D-3	524+50	525+50	Lt.				100
D-4	525+00	526+00	Rt.				100
TOTALS					182.5	3004	300

FENCE					
REF. NO.	STATION		SIDE	607	
				Fence Type CLT	
					Lin.Ft.
FROM	TO				
F-1	515+00	530+00	Rt.	1501	
F-2	515+00	530+00	Lt.	1503	
TOTALS					3004

GUARDRAIL						
REF. NO.	STATION		SIDE	606		448
				Guardrail, Type 5	Anchor Assembly, Type E-98	3" Asphalt Conc. Intermediate Course, Type 1, PG 64-22
FROM	TO					
GR-1	527+24.15	530+00	Rt.	225.85	1	10.91
TOTALS				226	1	10.9

PLOTTED BY: lmincek  
 PLOTTED: 08/05/2005 11:41  
 PLOT SUBMITTED: 05-AUG-1998 11:41  
 307qu03.dgn  
 307qu03.dgn





SEE 1963 CUY-71-0.00 PLANS FOR ORIGINAL CONSTRUCTION OF STORM SEWERS

I-71 PLAN & PROFILE STA. 530+00 TO STA. 545+00



\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE

REF. NO.	STATION		SIDE	603		604		605					660	670	838	604
	FROM	TO		6" Conduit, Type F ##	Catch Basin, No. 4 With E-Grate, As Per Plan	Catch Basin, No. 5 With B-Grate, As Per Plan	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Sq.Yd.	Sq.Yd.	Cu.Yd.	Each	
U-1	530+00	539+45	Lt.	60												
U-2	530+00	539+30	Lt.	30				930								
U-3	530+00	539+30	Lt.	30			930									
U-4	530+00	539+30	Rt.	30												
U-5	530+00	539+30	Rt.	30			930									
U-6	530+00	539+49	Rt.	55					945	33						3
U-7	539+45	539+90	Lt.							45						
U-8	539+30	539+90	Lt.								60					
U-9	539+30	539+65	Lt.								35					
U-10	539+30	539+65	Rt.								35					
U-11	539+30	539+90	Rt.								60					
U-12	539+49	539+90	Rt.							45						
U-13	541+50	545+00	Lt.						350	350						
U-14	541+50	545+00	Lt.								328					
U-15	541+72	545+00	Lt.								328					
U-16	541+72	545+00	Rt.													
U-17	541+50	545+00	Rt.													
U-18	541+50	545+00	Rt.	10												1
D-1	534+45	536+00	Ø													
D-2	537+75	539+30	Ø													
D-6	542+00	542+00	Lt.									36.7				3.3
D-7	542+00	542+00	Rt.									32.1				3.3
D-9	541+71	542+00	Ø													
TOTALS				245	1	1	2516	2560	2590	237	172	69	277	7		7

ROADWAY

REF. NO.	STATION		SIDE	202			203	Special
	FROM	TO		Guardrail Removed	Fence Removed	Catch Basin Abandoned	Ditch Cleanout	Pipe Cleanout
R-1	530+00	539+90	Rt.	990				
R-2	530+00	539+90	Lt.	990				
R-3	530+00	539+92	Rt.		1111			
R-4	530+00	539+93	Lt.		1129			
R-6	537+66	539+90	Rt.	228				
R-8	539+90	539+90	Lt./Rt.		53			
R-9	541+45	541+45	Lt./Rt.		53			
R-10	541+45	545+00	Rt.		432			
R-11	541+45	545+00	Lt.		438			
R-12	541+46	545+00	Rt.	354				
R-13	541+47	545+00	Lt.	353				
R-14	541+47	543+72	Lt.	228				
R-15	542+10	542+10	Ø			1		
D-3	536+07	537+61	Lt./Rt.					296
D-4	535+96	537+56	Rt.					160
D-5	537+95	539+75	Rt.					180
D-8	542+00	545+00	Rt.					300
TOTALS				3143	3216	1	640	296

FENCE

REF. NO.	STATION		SIDE	607	607
	FROM	TO		Fence, Type CLT	Gate, Type CL, As Per Plan
F-1	530+00	539+92	Rt.	1111	
F-2	530+00	539+93	Lt.	1129	
F-3	539+90	539+90	Lt./Rt.	20	1
F-4	541+45	541+45	Lt./Rt.	20	1
F-5	541+45	545+00	Rt.	432	
F-6	541+45	545+00	Lt.	438	
TOTALS				3150	2

See Bridge Site Plan & Sheet 189 for drainage layout and roadway items on Drake Road.

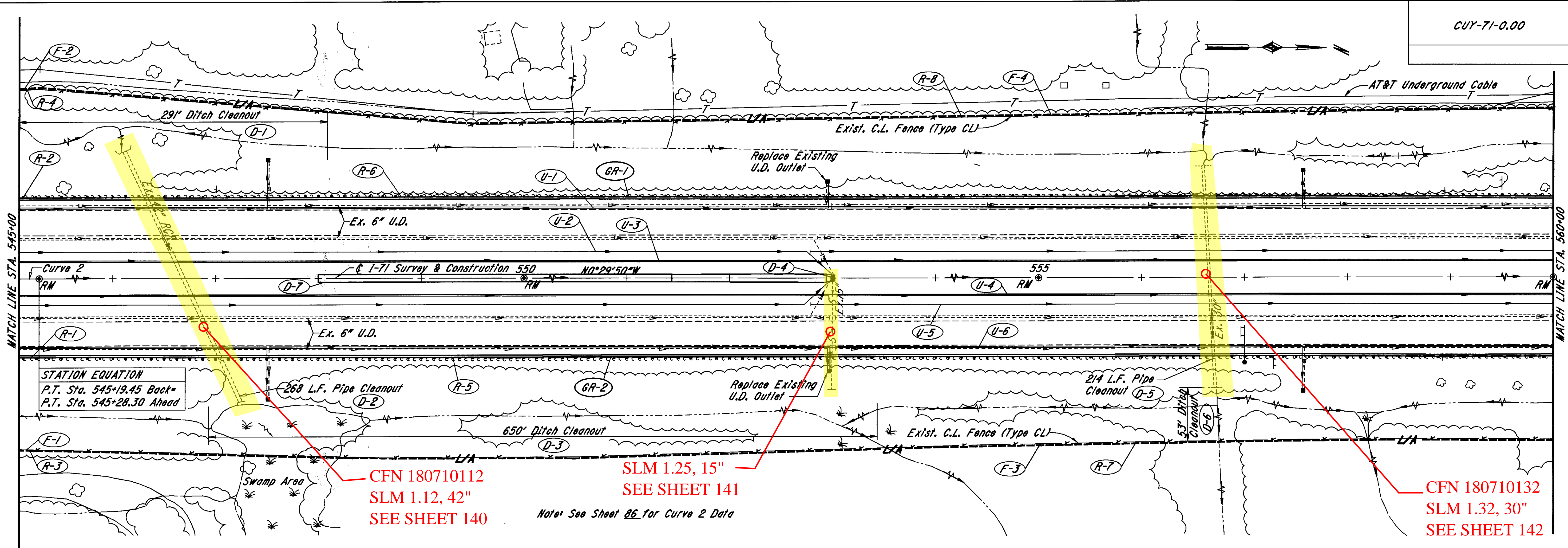
GUARDRAIL

REF. NO.	STATION		SIDE	606					448	203
	FROM	TO		Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Bridge Terminal Assembly, Type 1	Bridge Terminal Assembly, Type 2	3" Asphalt Conc. Intermediate Course Type 1, PG 64-22	Linear Grading, As Per Plan
GR-1	530+05.70	539+68.20	Lt.	950					35.65	
GR-2	530+00	539+67.90	Rt.	967.90					35.85	
GR-3	537+36.81	539+68.06	Rt.	181.25	1				9.26	231.25
GR-4	541+69.30	545+00	Rt.	330.70					12.25	
GR-5	541+69.44	544+00.69	Lt.	181.25	1				9.26	231.25
GR-6	541+69.60	545+00	Lt.	330.40					12.24	
TOTALS				2941.5	2	1	4	2	114.5	462.5 4.6 Stas.

PLOTTED BY: lmi ncek  
 PLOTTED: 08/05/2005 11:42  
 PLOT SUBMITTED: 05-AUG-1998 11:42  
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PLOTTED BY: fkonopka  
 PLOTTED FROM: merseber@d08459dgn\307pp05.dgn  
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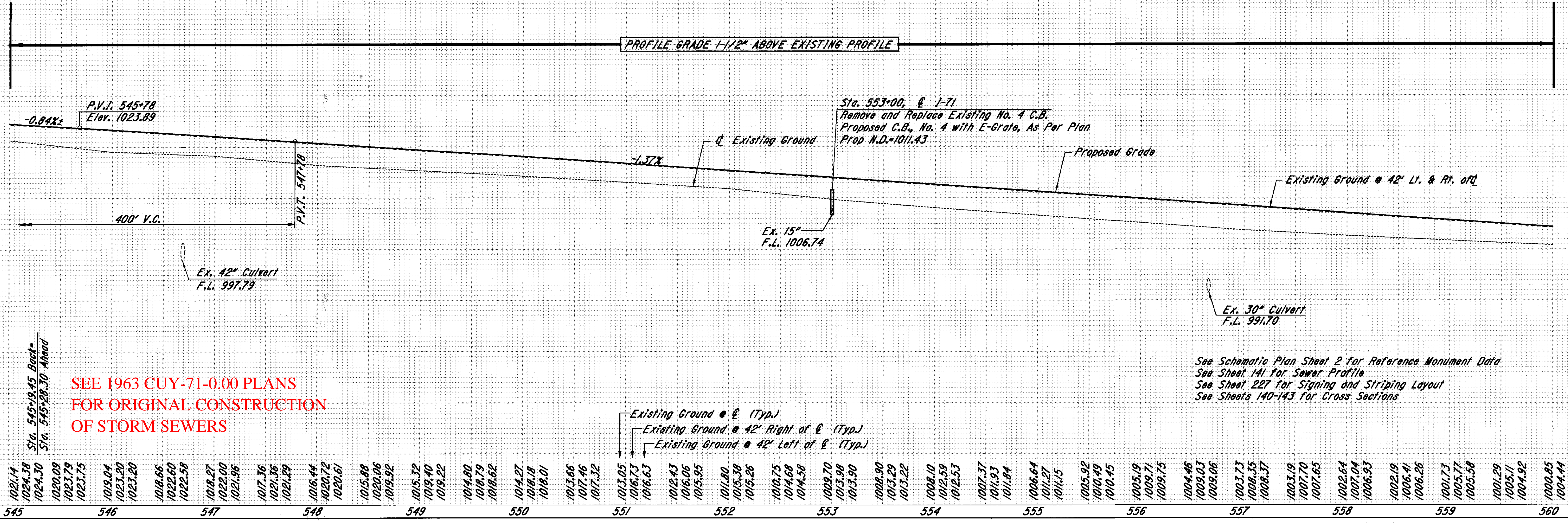


CFN 180710112  
 SLM 1.12, 42"  
 SEE SHEET 140

SLM 1.25, 15"  
 SEE SHEET 141

Note: See Sheet 86 for Curve 2 Data

CFN 180710132  
 SLM 1.32, 30"  
 SEE SHEET 142



SEE 1963 CUY-71-0.00 PLANS  
 FOR ORIGINAL CONSTRUCTION  
 OF STORM SEWERS

See Schematic Plan Sheet 2 for Reference Monument Data  
 See Sheet 141 for Sewer Profile  
 See Sheet 227 for Signing and Striping Layout  
 See Sheets 140-143 for Cross Sections

I-71 PLAN & PROFILE STA. 545+00 TO STA. 560+00



\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE													
REF. NO.	STATION		SIDE	603		604		605				670	604
	FROM	TO		6" Conduit, Type F, #	Each	Catch Basin, No. 4, With E-Grate, As Per Plan	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet
			Lin.Ft.			Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Each	
U-1	545+00	560+00	Lt.	75								3	
U-2	545+00	560+00	Lt.	15			1491				13		
U-3	545+00	560+00	Lt.				1491						
U-4	545+00	560+00	Rt.				1491						
U-5	545+00	560+00	Rt.	15			1491			13			
U-6	545+00	560+00	Rt.	85				1491	33			3	
TOTALS				190		1	2982	2982	2982	66	26	496	6

ROADWAY									
REF. NO.	STATION		SIDE	202		203	Special		
	FROM	TO		Guardrail Removed	Fence Removed		Ditch Cleanout	Pipe Cleanout	
			Lin.Ft.	Lin.Ft.		Lin.Ft.	Lin.Ft.		
R-1	545+00	545+19.45BK.	Rt.	19.5					
R-2	545+00	545+19.45BK.	Lt.	19.5					
R-3	545+00	545+19.45BK.	Rt.		20				
R-4	545+00	545+19.45BK.	Lt.		20				
R-5	545+28.30AH	560+00	Rt.	1471.7					
R-6	545+28.30AH	560+00	Lt.	1471.7					
R-7	545+28.30AH	560+00	Rt.		1472				
R-8	545+28.30AH	560+00	Lt.		1473				
TOTALS				2983	2985		994	484	

GUARDRAIL					
REF. NO.	STATION		SIDE	606	448
	FROM	TO		Guardrail, Type 5	3" Asphalt Conc. Intermediate Course Type 1, PG 64-22
			Lin.Ft.	Cu.Yd.	
GR-1	545+00	560+00	Lt.	1500	55.56
GR-2	545+00	560+00	Rt.	1500	55.56
TOTALS				3000	111.1

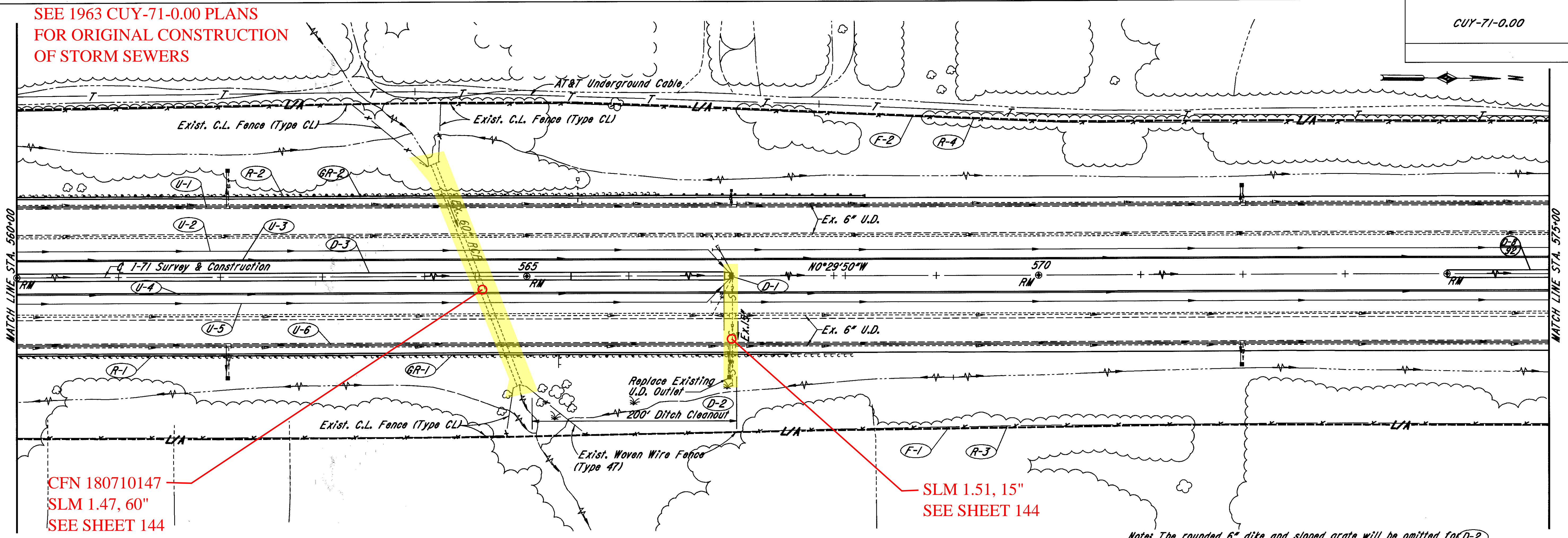
NOTE: Station Equation - Sta. 545+19.45 Back = Sta. 545+28.30 Ahead

FENCE				
REF. NO.	STATION		SIDE	607
	FROM	TO		Fence, Type CLT
			Lin.Ft.	
F-1	545+00	545+19.45BK.	Rt.	20
F-2	545+00	545+19.45BK.	Lt.	20
F-3	545+28.30AH	560+00	Rt.	1472
F-4	545+28.30AH	560+00	Lt.	1473
TOTALS				2985

PLOTTED BY: fkonopka  
 PLOTTED AT: 08/15/98 10:00 AM  
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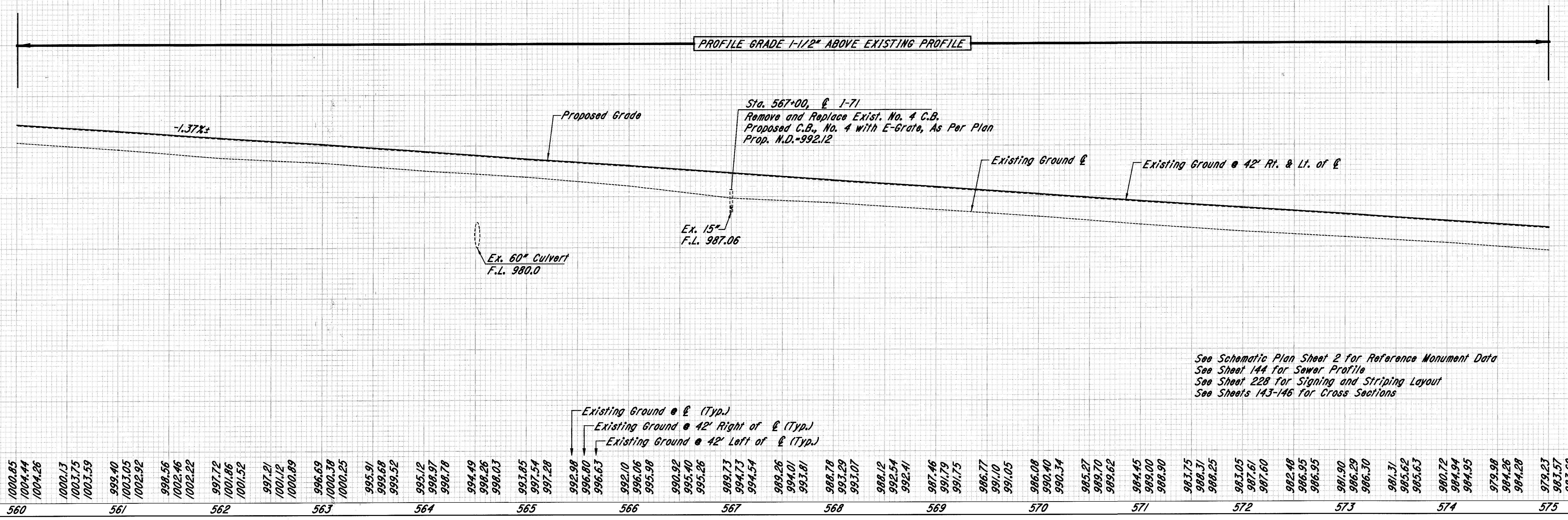
SEE 1963 CUY-71-0.00 PLANS  
FOR ORIGINAL CONSTRUCTION  
OF STORM SEWERS



CFN 180710147  
SLM 1.47, 60"  
SEE SHEET 144

SLM 1.51, 15"  
SEE SHEET 144

Note: The rounded 6" dike and sloped grate will be omitted for D-2



See Schematic Plan Sheet 2 for Reference Monument Data  
See Sheet 144 for Sewer Profile  
See Sheet 228 for Signing and Striping Layout  
See Sheets 143-146 for Cross Sections

1-71 PLAN & PROFILE STA. 560+00 TO STA. 575+00

PLOTTED BY: fkonopka  
PLOTTED: 10/11/2004 11:58  
307pp06.dgn



\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE														
REF. NO.	STATION		SIDE	603		604		605			670	604		
				6" Conduit, Type F ##		Catch Basin, No. 4 with E-Grate, As Per Plan		6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet
	FROM	TO		Lin.Ft.	Each		Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Each		
U-1	560+00	575+00	Lt.	40								3		
U-2	560+00	575+00	Lt.	15				1500			13			
U-3	560+00	575+00	Rt.					1500						
U-4	560+00	575+00	Rt.					1500						
U-5	560+00	575+00	Lt.	15					1500		13			
U-6	560+00	575+00	Rt.	50					1500	33		3		
TOTALS				120		1		3000	3000	3000	66	26	580	6
D-1	565+45	567+00	℄			1					125			
D-3	560+00	565+45	℄								455			

ROADWAY						
REF. NO.	STATION		SIDE	202		203
				Guardrail Removed	Fence Removed	Ditch Cleanout
	FROM	TO		Lin.Ft.	Lin.Ft.	Lin.Ft.
R-1	560+00	568+18.5	Rt.	818.5		
R-2	560+00	566+27	Lt.	627		
R-3	560+00	575+00	Rt.		1543	
R-4	560+00	575+00	Lt.		1567	
D-2	565+05	567+05	Rt.			200
TOTALS				1445.5	3110	200

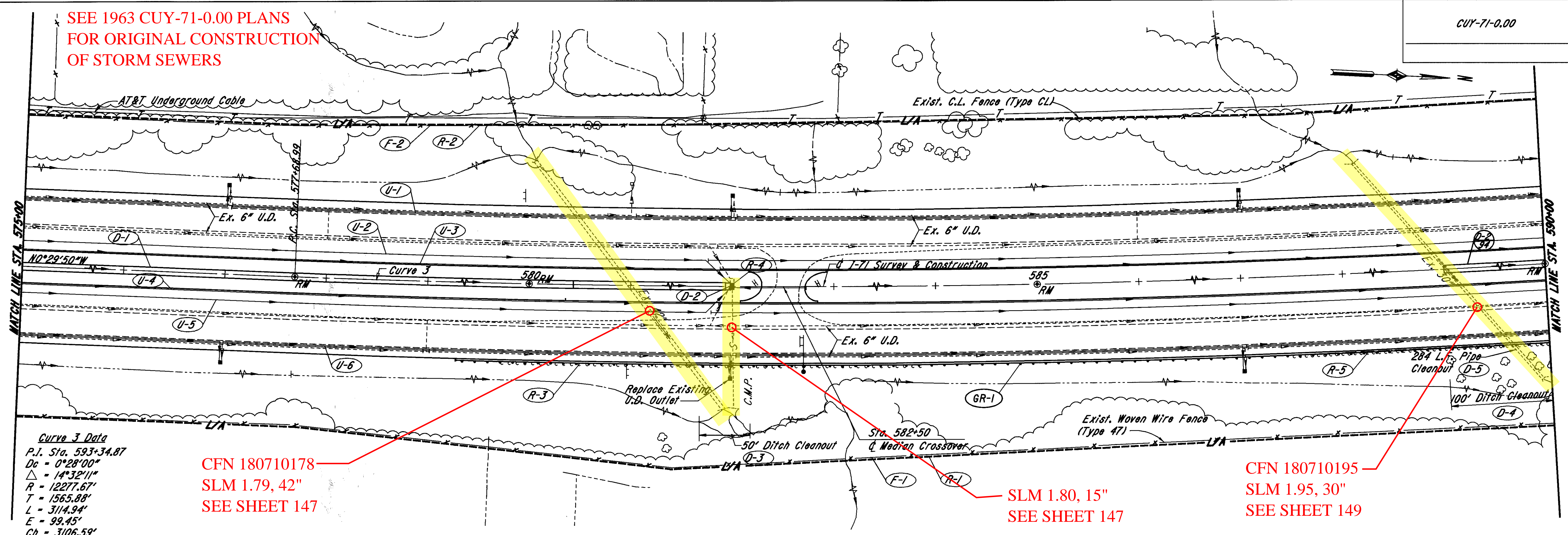
GUARDRAIL							
REF. NO.	STATION		SIDE	606			448
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	3" Asphalt Concrete Intermed Course, Type 1, PG 64-22
	FROM	TO	Lin.Ft.	Each	Each	Cu.Yd.	
GR-1	560+00	567+50.55	Rt.	738.05		1	27.80
GR-2	560+00	568+25.85	Lt.	775.85	1		31.28
TOTALS				1513.9	1	1	59.1

FENCE				
REF. NO.	STATION		SIDE	607
				Fence, Type CLT
	FROM	TO		Lin.Ft.
F-1	560+00	575+00	Rt.	1543
F-2	560+00	575+00	Lt.	1567
TOTALS				3110

PLOTTED BY: jmincek  
 PLOTTED IN: 08/05/98  
 PLOT SUBMITTED: 05-AUG-1998 11:43  
 307qu06.dgn  
 307qu06.dgn



SEE 1963 CUY-71-0.00 PLANS FOR ORIGINAL CONSTRUCTION OF STORM SEWERS



**Curve 3 Data**  
 P.I. Sta. 593+34.87  
 Dc = 0°28'00"  
 Δ = 14°32'11"  
 R = 12277.67'  
 T = 1565.88'  
 L = 3114.94'  
 E = 99.45'  
 Ch = 3106.59'

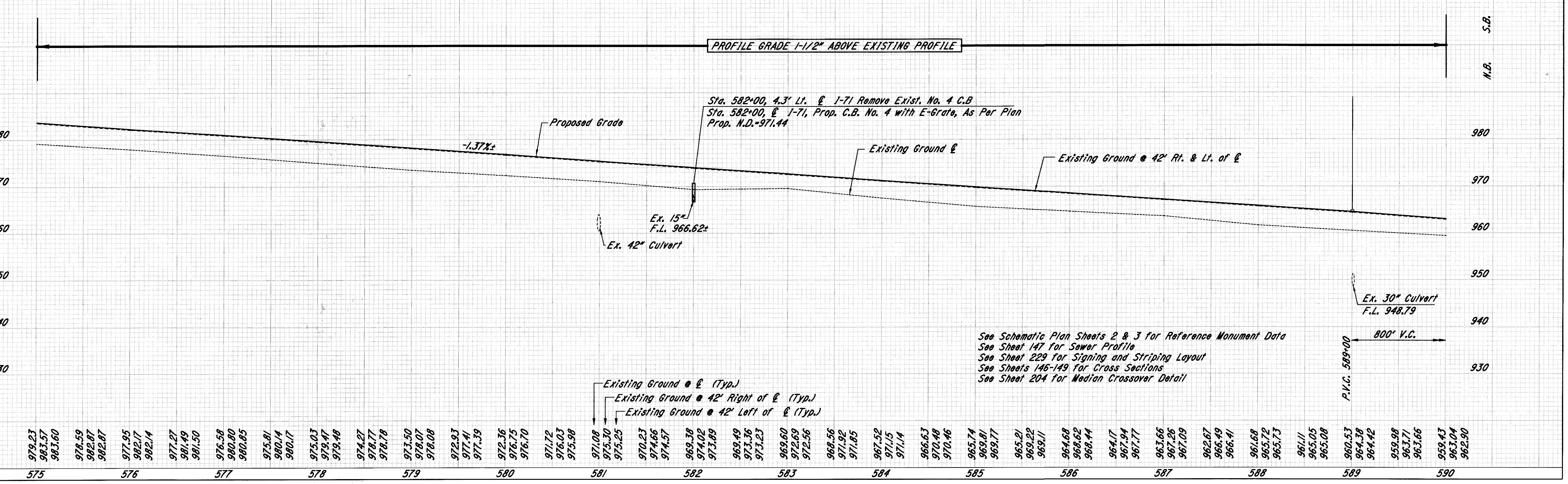
CFN 180710178  
 SLM 1.79, 42"  
 SEE SHEET 147

SLM 1.80, 15"  
 SEE SHEET 147

CFN 180710195  
 SLM 1.95, 30"  
 SEE SHEET 149

PLOT SUBMITTED:04 - AUG - 1998 11:59

PLOTTED BY: fkonopka  
PLOTTER: 10/10/98  
307pp07.dgn



Sta. 582+00, 4.3' Lt. of I-71 Remove Exist. No. 4 C.B.  
 Sta. 582+00, of I-71, Prop. C.B. No. 4 with E-Grate, As Per Plan  
 Prop. N.D.-971.44

See Schematic Plan Sheets 2 & 3 for Reference Monument Data  
 See Sheet 147 for Sewer Profile  
 See Sheet 229 for Signing and Striping Layout  
 See Sheets 146-149 for Cross Sections  
 See Sheet 204 for Median Crossover Detail

Existing Ground @ 42' Right of 42' (Typ.)  
 Existing Ground @ 42' Left of 42' (Typ.)  
 Existing Ground @ 42' (Typ.)

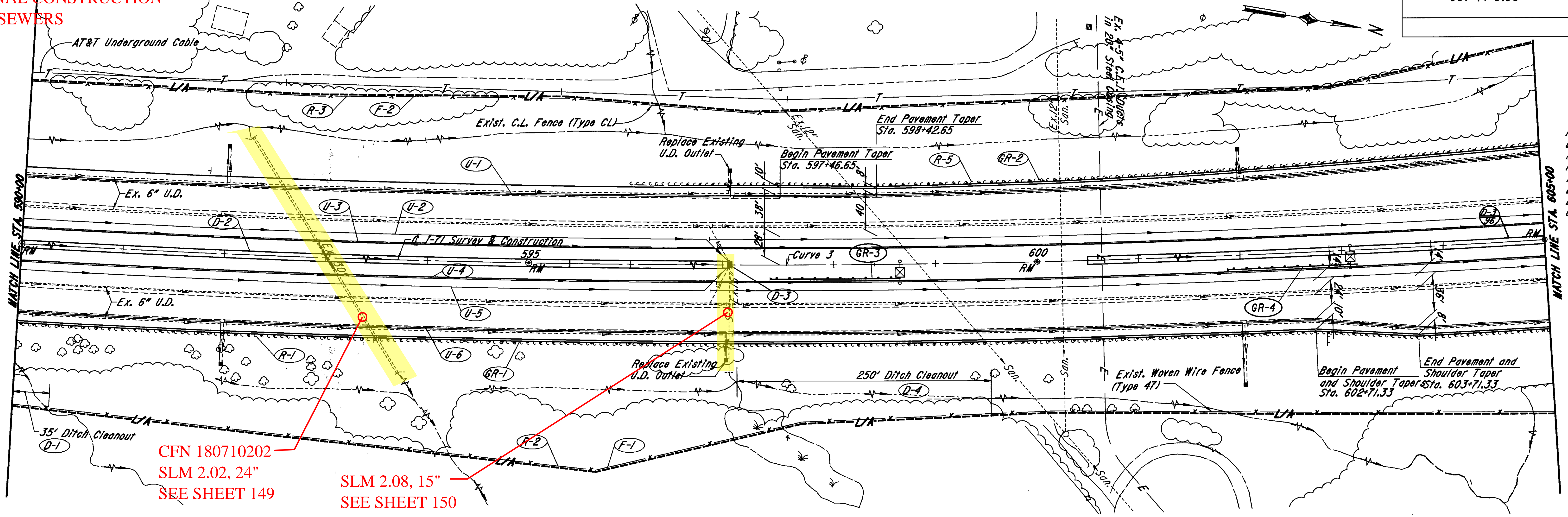
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575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590												

I-71 PLAN & PROFILE STA. 575+00 TO STA. 590+00





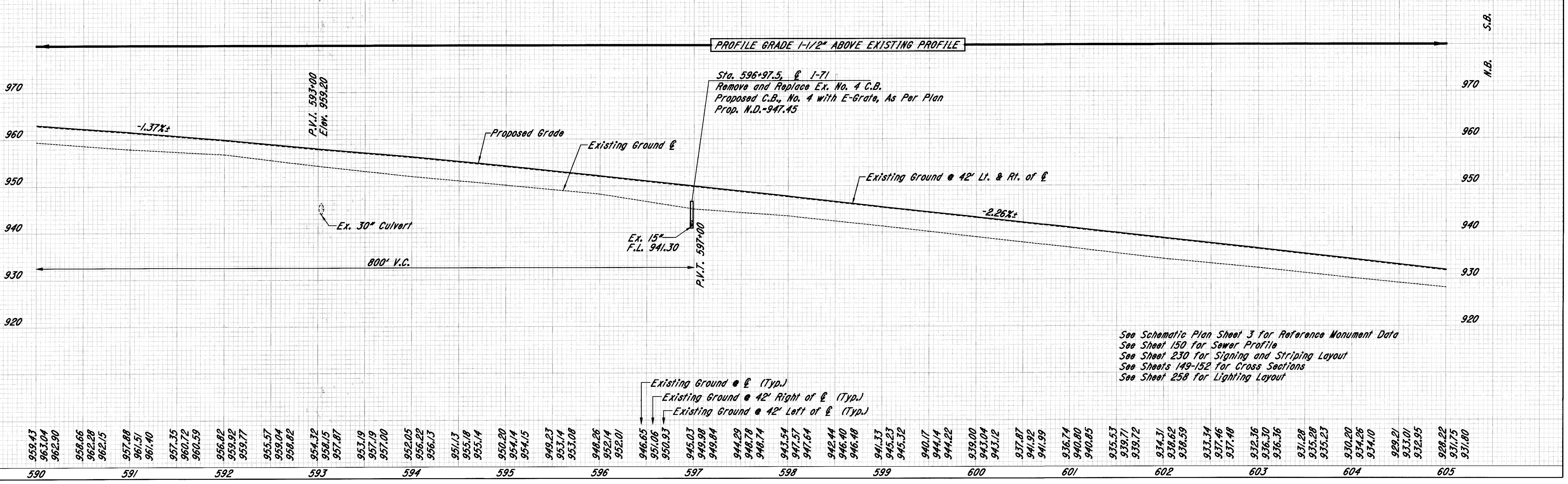




Curve 3 Data  
P.I. Sta. 593+34.87  
Dc = 0°28'00"  
Δ = 14°32'11"  
R = 12277.67'  
T = 1565.88'  
L = 3114.94'  
E = 99.45'  
Ch = 3106.59'

CFN 180710202  
SLM 2.02, 24"  
SEE SHEET 149

SLM 2.08, 15"  
SEE SHEET 150



See Schematic Plan Sheet 3 for Reference Monument Data  
See Sheet 150 for Sewer Profile  
See Sheet 230 for Signing and Striping Layout  
See Sheets 149-152 for Cross Sections  
See Sheet 258 for Lighting Layout

959.43	958.66	957.88	957.35	956.82	955.77	955.57	954.32	953.19	952.05	951.13	950.20	949.23	948.26	946.65	945.03	944.29	943.54	942.44	941.33	940.17	939.00	937.87	936.74	935.53	934.31	933.14	932.36	931.28	930.20	929.21	928.22	927.15	931.80		
590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605																				

I-71 PLAN & PROFILE STA. 590+00 TO STA. 605+00

PLOT SUBMITTED: 04 - AUG - 1998 11:59  
PLOTTED BY: fkonopka  
PLOTTER: PLOTTERS FOR SBERR



## 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

REF. NO.	STATION		SIDE	DRAINAGE											
				603		604		605				670		604	
				6" Conduit, Type F ##		Catch Basin, No. 4 With E-Grate, As Per Plan		6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet	
FROM	TO	Lin.Ft.	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Each					
U-1	590+00	605+00	Lt.	55											
U-2	590+00	605+00	Lt.	15			1500								
U-3	590+00	605+00	Lt.			1500									
U-4	590+00	605+00	Rt.			1500									
U-5	590+00	605+00	Rt.	15			1500			13					
U-6	590+00	605+00	Rt.	95				1500	33			3			
TOTALS				180	1	3000	3000	3000	66	26	661	6			
D-2	589+00	595+43	℄								536				
D-3	595+43	596+98	℄		1						125				

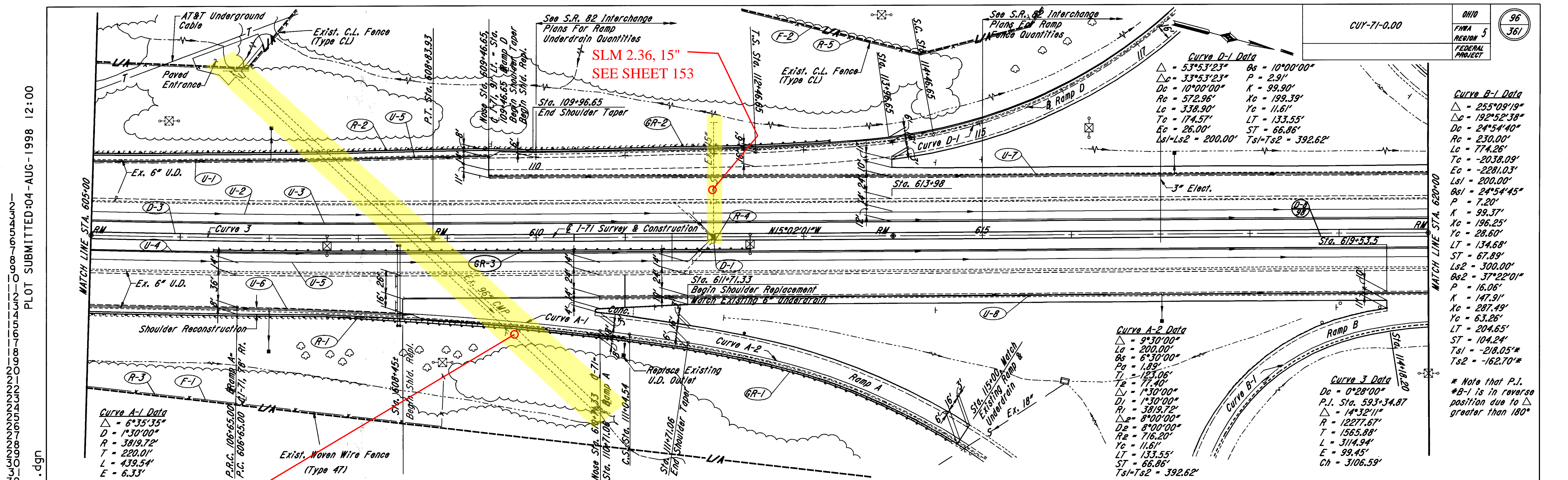
REF. NO.	STATION		SIDE	ROADWAY				
				202		203		
				Guardrail Removed	Fence Removed			Ditch Cleanout
FROM	TO	Lin.Ft.	Lin.Ft.			Lin.Ft.		
R-1	590+00	605+00	Rt.	1510				
R-2	590+00	605+00	Rt.		1529			
R-3	590+00	605+00	Lt.		1484			
R-5	595+99	605+00	Lt.	895				
D-1	590+00	590+35	Rt.					35
D-4	597+05	599+55	Rt.					250
TOTALS				2405	3013			285

REF. NO.	STATION		SIDE	GUARDRAIL				
				606		448		203
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	3" Asphalt Conc. Intermediate Course, Type I, PG 64-22	Linear Grading, As Per Plan
FROM	TO	Lin.Ft.	Each	Each	Cu.Yd.	Lin.Ft.		
GR-1	590+00	605+00	Rt.	1500			55.56	
GR-2	596+50	605+00	Lt.	837.5		1	31.02	
GR-3	597+40	598+65	Rt.	62.5	1	1	5.32	125
GR-4	601+90	603+15	Rt.	62.5	1	1	5.32	125
TOTALS				2462.5	2	3	97.2	250 2.5 Stas.

REF. NO.	STATION		SIDE	607
				Fence, Type CLT
				Lin.Ft.
F-1	590+00	605+00	Rt.	1529
F-2	590+00	605+00	Lt.	1484
TOTALS				3013

PLOTTED BY: lmi ncek  
 PLOTTED IN: 08/08/2008 10:44:44  
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 pi d08459@dgn 307qu08.dgn





OHIO	96
REGION 5	361
FEDERAL PROJECT	

Curve D-1 Data

$\Delta$	$= 53^{\circ}53'23''$	$Bs = 10^{\circ}00'00''$
$\Delta C$	$= 33^{\circ}53'23''$	$P = 2.91'$
$Dc$	$= 10^{\circ}00'00''$	$K = 99.90'$
$Rc$	$= 572.96'$	$Xc = 199.39'$
$Lc$	$= 338.90'$	$Yc = 11.61'$
$Tc$	$= 174.57'$	$LT = 133.55'$
$Sc$	$= 26.00'$	$ST = 66.86'$
$Ls1+Ls2$	$= 200.00'$	$Ts1+Ts2 = 392.62'$

Curve B-1 Data

$\Delta$	$= 255^{\circ}09'19''$
$\Delta C$	$= 192^{\circ}52'38''$
$Dc$	$= 24^{\circ}54'40''$
$Rc$	$= 230.00'$
$Lc$	$= 774.26'$
$Tc$	$= -2038.09'$
$Ec$	$= -2281.03'$
$Ls1$	$= 200.00'$
$Bs1$	$= 24^{\circ}54'45''$
$P$	$= 7.20'$
$K$	$= 99.37'$
$Xc$	$= 196.25'$
$Yc$	$= 28.60'$
$LT$	$= 134.68'$
$ST$	$= 67.89'$
$Ls2$	$= 300.00'$
$Bs2$	$= 37^{\circ}22'01''$
$P$	$= 16.06'$
$K$	$= 147.91'$
$Xc$	$= 287.49'$
$Yc$	$= 63.26'$
$LT$	$= 204.65'$
$ST$	$= 104.24'$
$Ts1$	$= -218.05'$
$Ts2$	$= -162.70'$

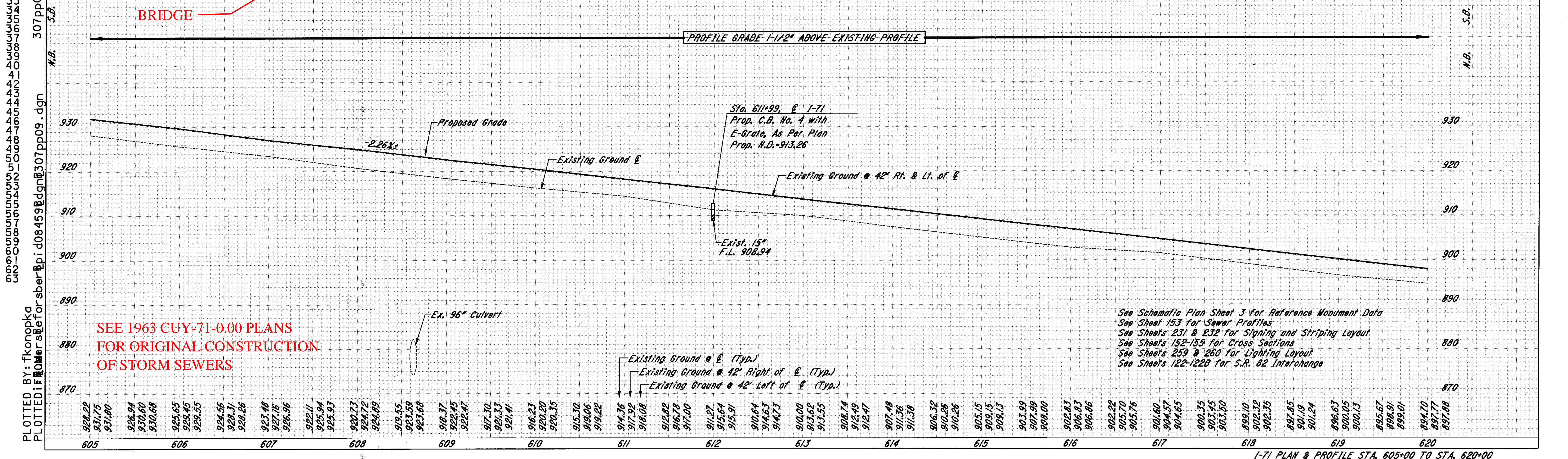
Curve A-2 Data

$\Delta$	$= 9^{\circ}30'00''$
$Lc$	$= 200.00'$
$Dc$	$= 6^{\circ}30'00''$
$Rc$	$= 3819.72'$
$\Delta c$	$= 8^{\circ}00'00''$
$Dc$	$= 8^{\circ}00'00''$
$Rc$	$= 716.20'$
$Yc$	$= 11.61'$
$LT$	$= 133.55'$
$ST$	$= 66.86'$
$Ts1+Ts2$	$= 392.62'$

Curve 3 Data

$Dc$	$= 0^{\circ}28'00''$
P.I. Sta.	$593+34.87$
$\Delta$	$= 14^{\circ}32'11''$
$R$	$= 12277.67'$
$T$	$= 1565.88'$
$L$	$= 3114.94'$
$E$	$= 99.45'$
$Ch$	$= 3106.59'$

\* Note that P.I. #B-1 is in reverse position due to  $\Delta$  greater than 180°



SEE 1963 CUY-71-0.00 PLANS FOR ORIGINAL CONSTRUCTION OF STORM SEWERS

See Schematic Plan Sheet 3 for Reference Monument Data  
 See Sheet 153 for Sewer Profiles  
 See Sheets 231 & 232 for Signing and Striping Layout  
 See Sheets 152-155 for Cross Sections  
 See Sheets 259 & 260 for Lighting Layout  
 See Sheets 122-122B for S.R. 82 Interchange

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I-71 PLAN & PROFILE STA. 605+00 TO STA. 620+00



\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE																
REF. NO.	STATION		SIDE	603		604		605					670	604		
				6" Conduit, Type F ##		Catch Basin, No. 4 with E-Grate As Per Plan		6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain		Ditch Erosion Protection	Precast Reinforced Concrete Outlet	
	FROM	TO	Lin.Ft.	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.		Sq.Yd.	Each			
U-1	605+00	610+00	Lt.	25									1			
U-2	605+00	620+00	Lt.	15			1500									
U-3	605+00	620+00	Lt.			1500										
U-4	605+00	620+00	Rt.			1500										
U-5	607+02	620+00	Rt.	15			1500						13			
U-6	605+00	611+00	Rt.	50				600	22				2			
U-7	609+47	620+00	Lt.	10				1053	11				1			
U-8	608+45	620+00	Rt.	20				1155	11							
TOTALS						135		1		3000	3000	3308	55	26	938	4
D-1	610+44	611+99	ℓ										125			
D-3	600+50	610+25	ℓ										813			

ROADWAY								
REF. NO.	STATION		SIDE	202				
				Guardrail Removed	Fence Removed	Pipe Removed, 24" And Under	Catch Basin or Inlet Removed	
	FROM	TO	Rt.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Each	
R-1	605+00	614+64	Rt.	992				
R-2	605+00	612+05	Lt.	700				
R-3	605+00	608+94	Rt.		457			
R-4	611+99	611+99	ℓ			8	1	
R-5	605+00	615+00	Lt.		1123			
TOTALS					1692	1580	8	1

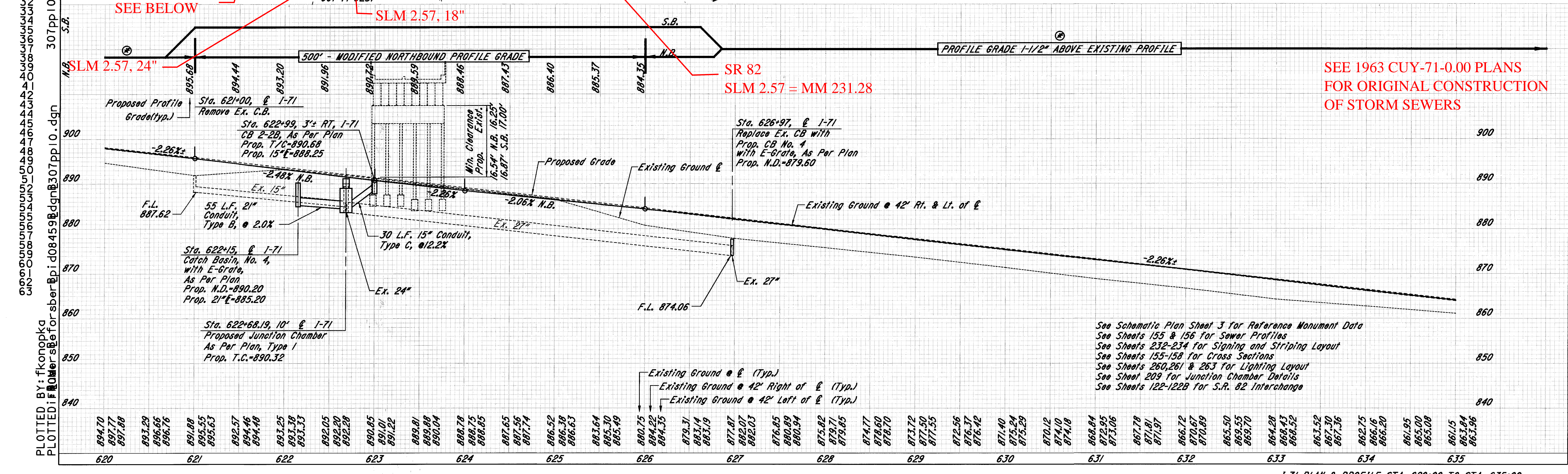
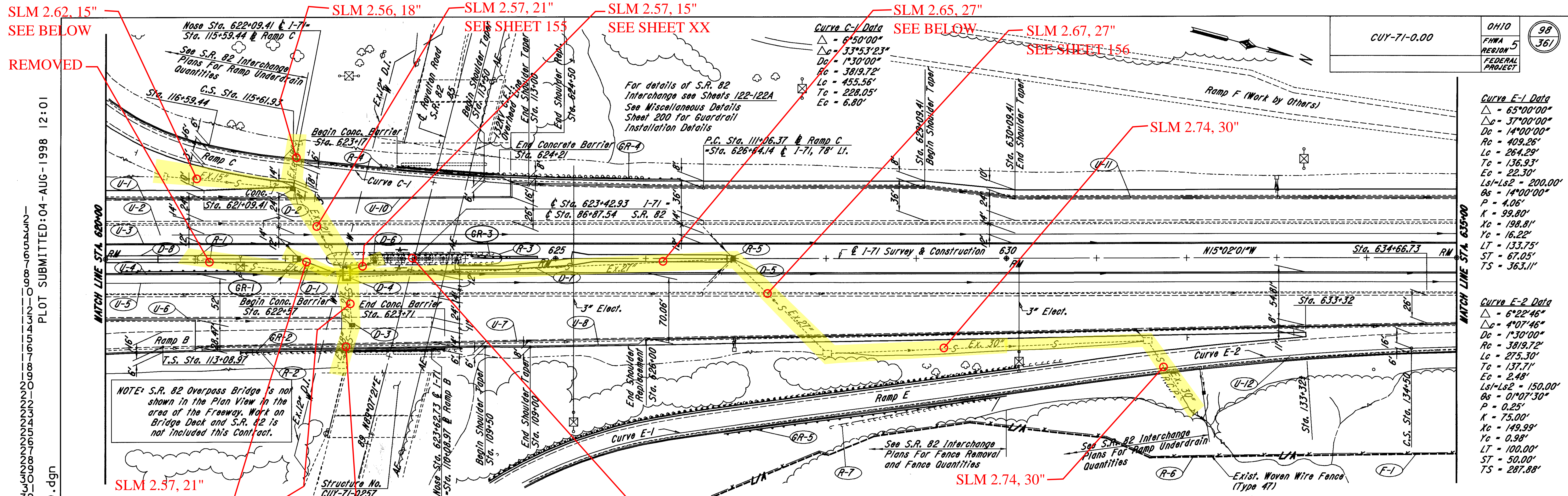
GUARDRAIL									
REF. NO.	STATION		SIDE	606		448	203		
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	3" Asphalt Conc. Intermediate Course Type I, PG 64-22	Linear Grading, As Per Plan	
	FROM	TO	Rt.	Lin.Ft.	Each	Each	Cu.Yd.	Lin.Ft.	
GR-1	605+00	614+64	Rt.	975		1	36.11		
GR-2	605+00	613+25	Lt.	775	1		31.24		
GR-3	606+40	612+40	Rt.	537.5	1	1	22.92	600	
TOTALS					2287.5	2	2	90.3	600

6.00 Stas.

FENCE				
REF. NO.	STATION		SIDE	607
				Fence, Type CLT
	FROM	TO	Rt.	Lin.Ft.
F-1	605+00	608+94	Rt.	457
F-2	605+00	615+00	Lt.	1123
TOTALS				1580

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 PLOTTED IN: 307qu09.dgn  
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\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

REF. NO.	STATION		SIDE	DRAINAGE														
				603			604			605					670	604		
				6" Conduit, Type F #	15" Conduit, Type C	21" Conduit, Type B	Catch Basin, No. 2-2B, A.P.P.	Catch Basin, No. 4 with F. Grate, As Per Plan	Catch Basin, No. 6	Junction Chamber, Type 1, As Per Plan	Catch Basin Reconstructed To Grade	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet
FROM	TO	LT.	Each	Each	Each	Each	Each	Each	Each	Each	Each	S.Y.	Each					
U-1	620+00	622+10	Lt.	10														
U-2	620+00	635+00	Lt.	30							1500				26			
U-3	620+00	635+00	Lt.							1500								
U-4	620+00	635+00	Rt.							1500								
U-5	620+00	635+00	Rt.	30							1500				26			
U-6	620+00	622+70	Rt.	10								270						
U-7	620+00	635+00	Rt.	20								1500	22				1	
U-8	621+00	626+00	Rt.							500								
U-10	622+09	624+50	Lt.										241					
U-11	622+00	635+00	Lt.	10									1300	11			1	
U-12	632+00	635+00	Rt.									300						
D-1	620+60	622+15	℄			55		1								125		
D-2	622+08.83	622+08.83	78' Lt.											1				
D-3	622+74.24	622+74.24	74' Rt.					1										
D-4	622+68.19	622+68.19	10' Rt.						1									
D-5	625+42	626+97	℄													162		
D-6	622+68	622+99	3' Rt.		30			1										
D-7	626+97	626+97	Rt.													75		
D-8	611+99	620+60	℄													733		
TOTALS				110	30	55	1	2	1	1	1	3500	3000	3821	33	52	1095	2

REF. NO.	STATION		SIDE	ROADWAY			
				202			
				Guardrail Removed	Fence Removed	Catch Basin or Inlet Removed	Pipe Removed, 24" And Under
FROM	TO	LT./RT.	Lin.Ft.	Lin.Ft.	Each	Lin.Ft.	
R-1	621+00	622+68	℄				
R-2	621+50	623+96.5	Rt.	246.5			165
R-3	622+45	624+40	Lt./Rt.	390			
R-4	623+05	625+95.5	Lt.	290.5			
R-6	631+00	635+00	Rt.		506		
R-7	128+02	129+83	Rt.	181			
TOTALS				1108	506	1	165

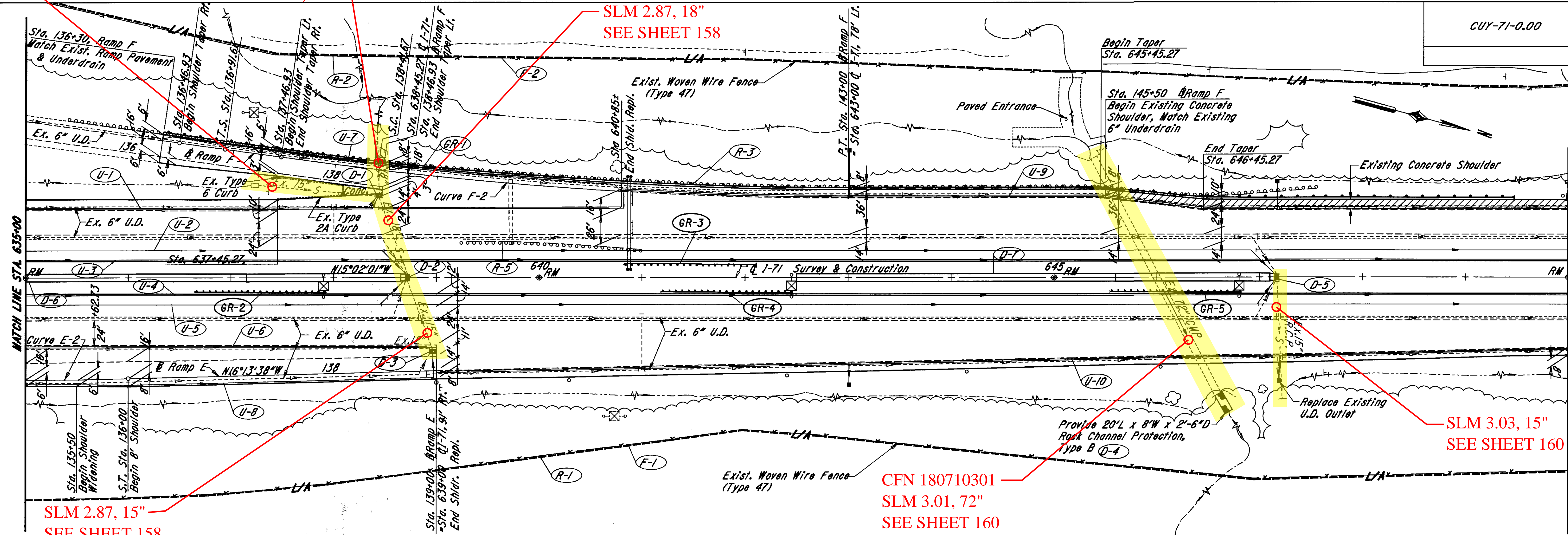
REF. NO.	STATION		SIDE	FENCE
				607
				Fence, Type CLT
FROM	TO	LT.	Lin.Ft.	
F-1	631+00	635+00	Rt.	506
TOTALS				506

REF. NO.	STATION		SIDE	GUARDRAIL										
				606										
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Bridge Terminal Assembly, Type I	Guardrail, Type 5A	Guardrail, Barrier Design, Type 5	Impact Attenuator, Type I-98	Concrete Barrier, Type D, As Per Plan A	3" Asphalt Conc. Intermediate Course Type 1, P6 64-22	203	
FROM	TO	LT.	Lin.Ft.	Each	Each	Each	Each	Lin.Ft.	Lin.Ft.	Each	Lin.Ft.	Cu.Yd.	Lin. Ft.	
GR-1	620+20	623+95	Rt.	312.5	1	1							14.58	375
GR-2	621+52.75	623+71	Rt.	56.25	1		1						4.63	
GR-3	622+93.5	624+43.5	Lt.			1		87.5	50	1			7.5	181.5
GR-4	623+17.34	626+35.49	Lt.	156.25	1		1						8.33	
GR-5	126+87.5	130+00	Rt.	250	1	1							12.27	
TOTALS				775	4	3	2	87.5	50	1	228	47.3	556.5	5.6 Stds.

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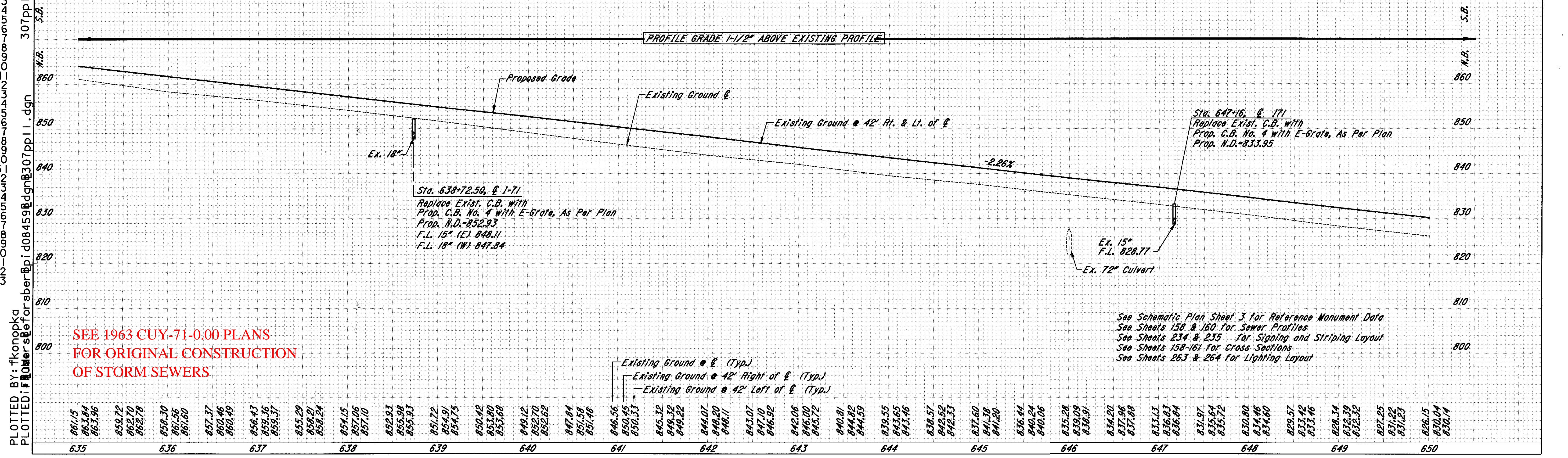
Curve F-2 Data

$\Delta$	= 8°00'00"
$\Delta_c$	= 6°52'30"
$D_c$	= 1°30'00"
$R_c$	= 3819.72'
$L_c$	= 458.33'
$T_c$	= 229.44'
$E_c$	= 6.88'
$Ls1$	= 0
$Ls2$	= 150.00'
$Os2$	= 1°07'30"
$P2$	= 0.25'
$K2$	= 75.00'
$Xc2$	= 149.99'
$Yc2$	= 0.98'
$LT2$	= 100.00'
$ST2$	= 50.00'
$Ts1$	= 268.86'
$Ts2$	= 340.35'

SLM 2.87, 15"  
SEE SHEET 158

CFN 180710301  
SLM 3.01, 72"  
SEE SHEET 160

SLM 3.03, 15"  
SEE SHEET 160



SEE 1963 CUY-71-0.00 PLANS  
FOR ORIGINAL CONSTRUCTION  
OF STORM SEWERS

See Schematic Plan Sheet 3 for Reference Monument Data  
See Sheets 158 & 160 for Sewer Profiles  
See Sheets 234 & 235 for Signing and Striping Layout  
See Sheets 158-161 for Cross Sections  
See Sheets 263 & 264 for Lighting Layout

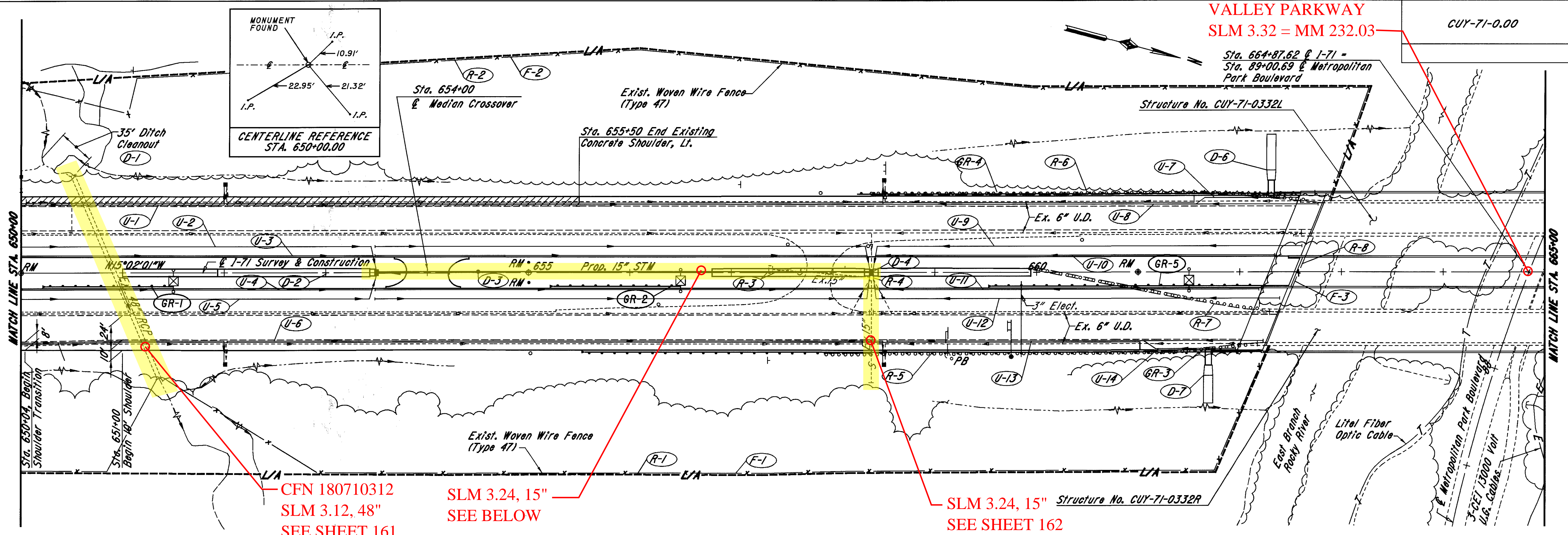
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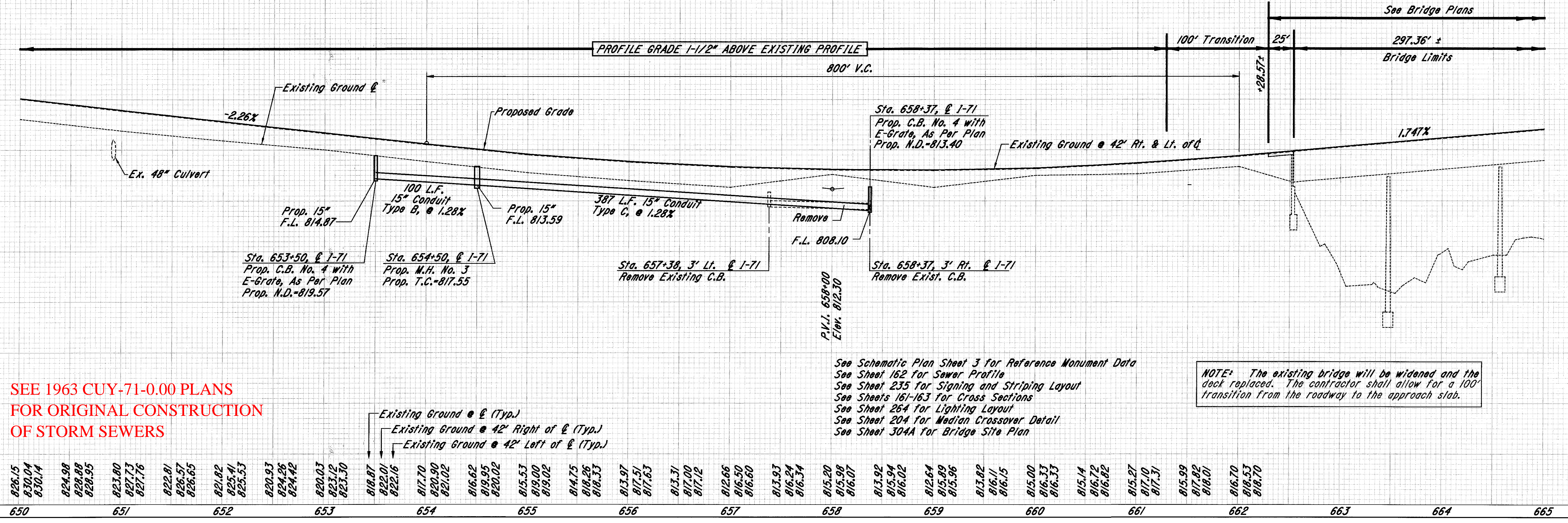
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CFN 180710312  
SLM 3.12, 48"  
SEE SHEET 161

SLM 3.24, 15"  
SEE BELOW

SLM 3.24, 15"  
SEE SHEET 162



SEE 1963 CUY-71-0.00 PLANS  
 FOR ORIGINAL CONSTRUCTION  
 OF STORM SEWERS

NOTE: The existing bridge will be widened and the deck replaced. The contractor shall allow for a 100' transition from the roadway to the approach slab.

See Schematic Plan Sheet 3 for Reference Monument Data  
 See Sheet 162 for Sewer Profile  
 See Sheet 235 for Signing and Striping Layout  
 See Sheets 161-163 for Cross Sections  
 See Sheet 264 for Lighting Layout  
 See Sheet 204 for Median Crossover Detail  
 See Sheet 304A for Bridge Site Plan

I-71 PLAN & PROFILE STA. 650+00 TO STA. 665+00



\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

CUY-71-0.00

OHIO  
FHWA REGION 5  
FEDERAL PROJECT

103  
361

PLOT SUBMITTED:05 -AUG- 1998 11:53

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PLOTTED: 08/05/98 10:59 AM

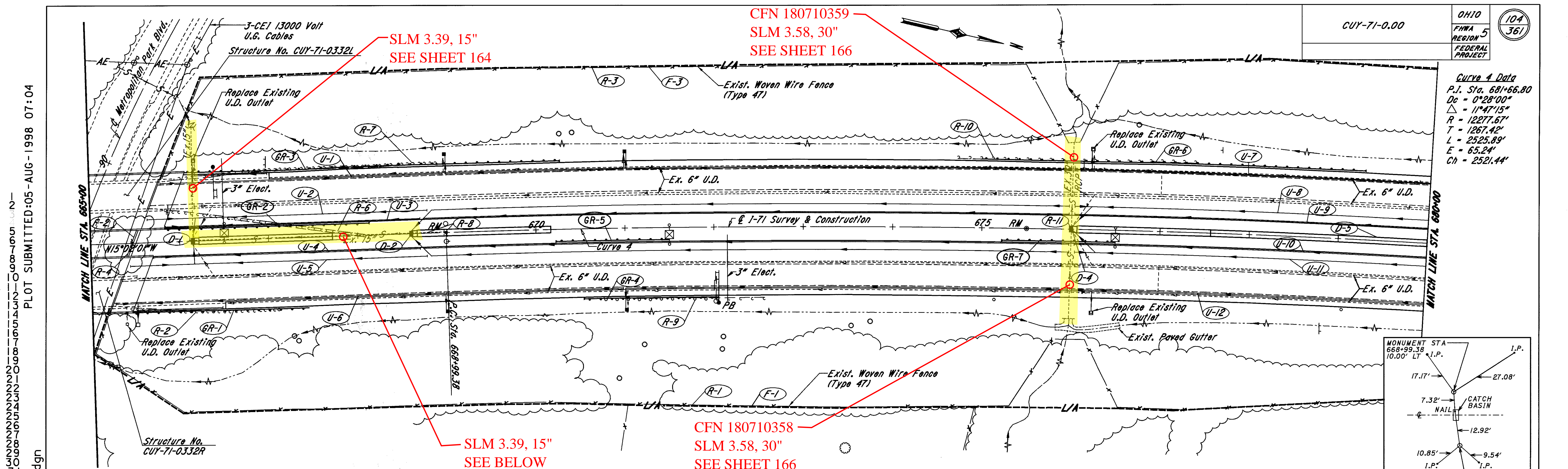
REF. NO.	STATION		SIDE	DRAINAGE														
				603			604		605				660	670	838	604		
				6" Conduit, Type F #	15" Conduit, Type B	15" Conduit, Type C	Catch Basin, No. 4 with E-Grate, As Per Plan	Manhole, No. 3	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Reinforced Sodding	Ditch Erosion Protection	Gabions with Additional Coating	Precast Reinforced Concrete Outlet	
FROM	TO	LT.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Each	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Sq.Yd.	Cu.Yd.	Each			
U-1	650+00	658+37	Lt.	20														
U-2	650+00	658+37	Lt.	30						837								
U-3	650+00	658+37	Lt.							837								
U-4	650+00	658+37	Rt.							837								
U-5	650+00	658+37	Rt.	30						837								
U-6	650+00	658+37	Rt.	25							837	22					2	
U-7	658+37	662+57	Lt.							420								
U-8	658+37	662+76	Lt.									439						
U-9	658+37	662+61	Lt.	15							424					13		
U-10	658+37	662+34	Lt.							397								
U-11	658+37	662+18	Rt.							381								
U-12	658+37	662+39	Rt.	15							402					13		
U-13	658+37	662+23	Rt.								386							
U-14	658+37	661+96	Rt.							359								
D-2	651+95	653+50	℄				1										125	
D-3	653+50	654+50	℄		100			1									250	
D-4	654+50	659+92	℄			387	1										79	
D-5	651+00	651+95	℄															
D-6	662+30	662+30	Lt.										53.3			3.3		
D-7	661+70	661+70	Rt.										37.2			3.3		
TOTALS				135	100	387	2	1	3231	2500	2499	44	78	90.5	454	7	4	

REF. NO.	STATION		SIDE	ROADWAY				
				202			203	
				Guardrail Removed	Fence Removed	Catch Basin or Inlet Removed	Pipe Removed, 24" And Under	Ditch Cleanout
FROM	TO	LT.	Lin.Ft.	Lin.Ft.	Each	Lin.Ft.	Lin.Ft.	
R-1	650+00	662+28	Rt.		1390			
R-2	650+00	662+88	Lt.		1478			
R-3	657+38	657+38	3' Lt.			1	96	
R-4	658+37	658+37	3' Rt.			1		
R-5	657+91	662+09	Rt.	418				
R-6	658+36	662+73	Lt.	437				
R-7	659+97	662+29	Rt.	237				
R-8	662+58	662+58	Lt./Rt.		76			
D-1	650+20	650+50	Lt.					35
TOTALS				1092	2944	2	96	35

REF. NO.	STATION		SIDE	FENCE	
				607	
				Fence, Type CLT	Gate, Type CL, As Per Plan
FROM	TO	LT.	Lin.Ft.	Each	
F-1	650+00	662+28	Rt.	1383	
F-2	650+00	662+88	Lt.	1469	
F-3	662+58	662+58	Lt./Rt.	22	1
TOTALS				2874	1

REF. NO.	STATION		SIDE	GUARDRAIL							
				606					448	203	
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Bridge Terminal, Assembly, Type 1	Bridge Terminal, Assembly, Type 2	3" Asphalt Conc. Intermediate Course Type 1, PG 64-22	Linear Grading, As Per Plan	
FROM	TO	LT.	Lin.Ft.	Each	Each	Each	Each	Cu.Yd.	Lin. Ft.		
GR-1	650+25	651+50	Rt.	62.5	1	1			5.32	125	
GR-2	655+25	656+50	Rt.	62.5	1	1			5.32	125	
GR-3	655+56.21	661+99.96	Rt.	593.75	1		1		24.54		
GR-4	658+23.77	662+61.27	Lt.	425	1	1	1		16.20		
GR-5	659+56.26	662+25.01	Rt.	218.75	1		1		10.73	268.75	
TOTALS				1325	4	3	2	1	62.1	518.75	5.2 Stas.





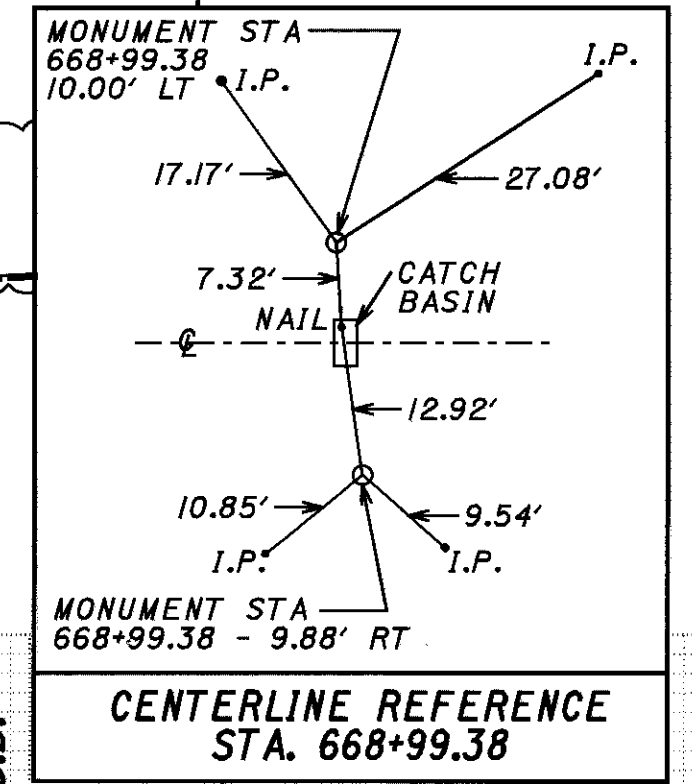
CUY-71-0.00

OH10	104
FHWA REGION 5	361
FEDERAL PROJECT	

Curve 4 Data  
 P.I. Sta. 681+66.80  
 Dc = 0°28'00"  
 Δ = 11°47'15"  
 R = 1227.67'  
 T = 1267.42'  
 L = 2525.89'  
 E = 65.24'  
 Ch = 2521.44'

PLOT SUBMITTED:05-AUG-1998 07:04

PLOTTED BY: fkonopka  
 PLOTTED FROM: sber@dgn307pp13.dgn 307pp13.dgn

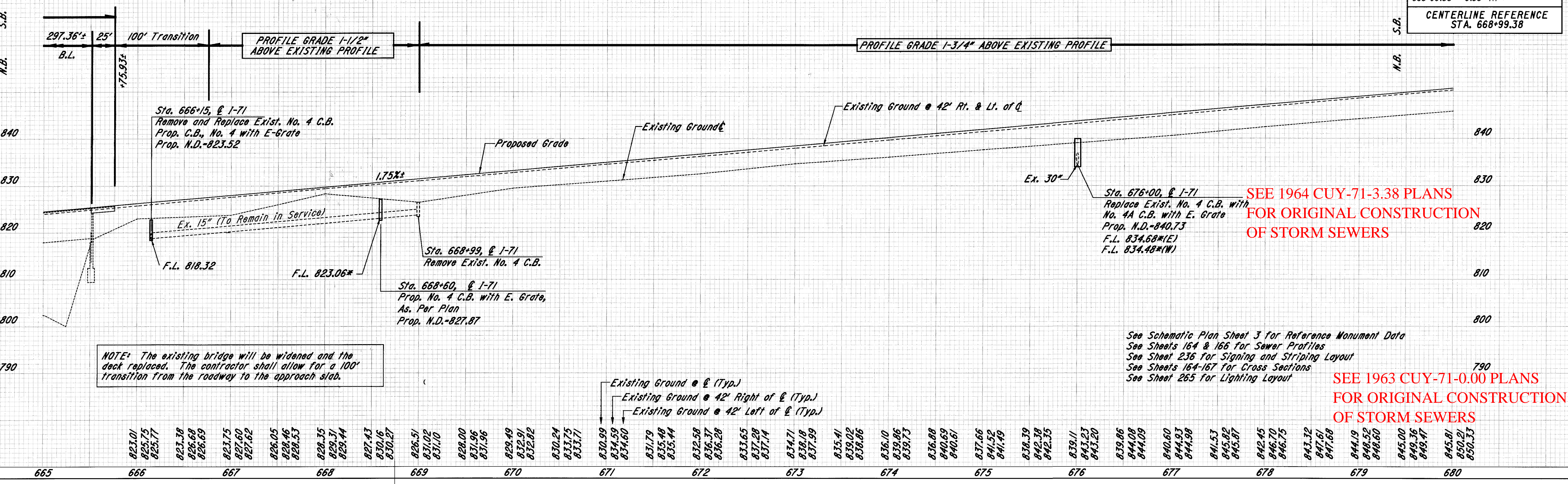


SLM 3.39, 15"  
SEE SHEET 164

CFN 180710359  
SLM 3.58, 30"  
SEE SHEET 166

SLM 3.39, 15"  
SEE BELOW

CFN 180710358  
SLM 3.58, 30"  
SEE SHEET 166



SEE 1964 CUY-71-3.38 PLANS  
FOR ORIGINAL CONSTRUCTION  
OF STORM SEWERS

SEE 1963 CUY-71-0.00 PLANS  
FOR ORIGINAL CONSTRUCTION  
OF STORM SEWERS

NOTE: The existing bridge will be widened and the deck replaced. The contractor shall allow for a 100' transition from the roadway to the approach slab.

See Schematic Plan Sheet 3 for Reference Monument Data  
 See Sheets 164 & 166 for Sewer Profiles  
 See Sheet 236 for Signing and Striping Layout  
 See Sheets 164-167 for Cross Sections  
 See Sheet 265 for Lighting Layout

I-71 PLAN & PROFILE STA. 665+00 TO STA. 680+00



\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE															
REF. NO.	STATION		SIDE	603		604		605					670	604	
				6" Conduit, Type F ##	Lin.Ft.	Catch Basin, No. 4 With E-Grate, As Per Plan	Each	6" Rock Cut Underdrain	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet
FROM	TO	Lt.	Lin.Ft.	Each	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Each		
U-1	665+80	676+00	Lt.	35				1053						3	
U-2	665+65	676+00	Lt.	30				1061							
U-3	665+85	676+00	Lt.						1015						
U-4	665+70	676+00	Rt.						1030						
U-5	665+45	676+00	Rt.	30				1081							
U-6	665+25	676+00	Lt.	40				1108						3	
U-7	676+00	680+00	Lt.	15						400	400	11		1	
U-8	676+00	680+00	Lt.	15							400		13		
U-9	676+00	680+00	Lt.						400						
U-10	676+00	680+00	Rt.						400						
U-11	676+00	680+00	Rt.	15						400		13			
U-12	676+00	680+00	Rt.	15							400	11		1	
D-1	666+15	667+70	℄			1								125	
D-2	668+60	670+15	℄			1								125	
D-4	676+00	677+55	℄				1							125	
D-5	677+55	685+50	℄											662	
TOTALS				195		2	1	4303	2845	800	800	22	26	1037	8

Underdrain runs U-1, U-2, U-5, and U-6 may require excavation through rock. These underdrain runs should be installed at the proper depth, as shown on the typical sections, if possible. If rock is encountered above the proposed flow lines, then the underdrains should be constructed a minimum of 12" into the rock. These underdrain runs shall be installed from the low point to the high point, to ensure a positive outlet is achieved.

If no rock is encountered, then the underdrain installation shall be paid for using the typical underdrain installation bid references. If rock is encountered, then only the Rock Underdrain pay item shall be used.

ROADWAY							
REF. NO.	STATION		SIDE	202			
				Guardrail Removed	Fence Removed	Catch Basin or Inlet Removed	Pipe Removed 24" And Under
FROM	TO	Rt.	Lin.Ft.	Lin.Ft.	Each	Lin.Ft.	
R-1	665+03	680+00	Rt.		1645		
R-2	665+31	667+06	Rt.	175			
R-3	665+82	680+00	Lt.		1615		
R-4	665+42	665+54	Rt./Lt.		31		
R-6	665+77	668+09	Lt.	225			
R-7	665+88	668+91	Lt.	297			
R-8	668+60	668+99	℄			1	39
R-9	670+74	672+56	Rt.	181			
R-10	674+73	677+40	Lt.	269			
TOTALS				1139	3291	1	39

FENCE					
REF. NO.	STATION		SIDE	607	
				Fence, Type C/LT	Gate, Type C/LAs Per Plan
FROM	TO	Rt.	Lin.Ft.	Each	
F-1	665+03	680+00	Rt.	1639	
F-2	665+42	665+54	Lt./Rt.	22	1
F-3	665+82	680+00	Lt.	1607	
TOTALS				3268	1

GUARDRAIL											
REF. NO.	STATION		SIDE	606						448	203
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Bridge Terminal Assembly, Type 1	Bridge Terminal Assembly, Type 2	3" Asphalt Conc. Intermediate Course Type 1, PG 64-22	Linear Grading, As Per Plan	
											Lin.Ft.
FROM	TO	Rt.	Lin.Ft.	Each	Each	Each	Each	Cu.Yd.	Lin. Ft.		
GR-1	665+43.22	667+43	Rt.	187.5		1		1	7.40		
GR-2	665+79.48	668+10.73	Lt.	181.25	1		1		9.26	231.25	
GR-3	666+06.83	670+25.58	Lt.	368.75	1		1		16.20		
GR-4	670+55	672+05	Rt.	87.5	1	1			6.25		
GR-5	670+25	671+50	Rt.	62.5	1	1			5.32	125	
GR-6	675+00	679+25	Lt.	362.5	1	1			16.44		
GR-7	675+25	676+50	Rt.	62.5	1	1			5.32	125	
TOTALS				1312.50	6	5	2	1	66.2	481.25	4.8 Stas.

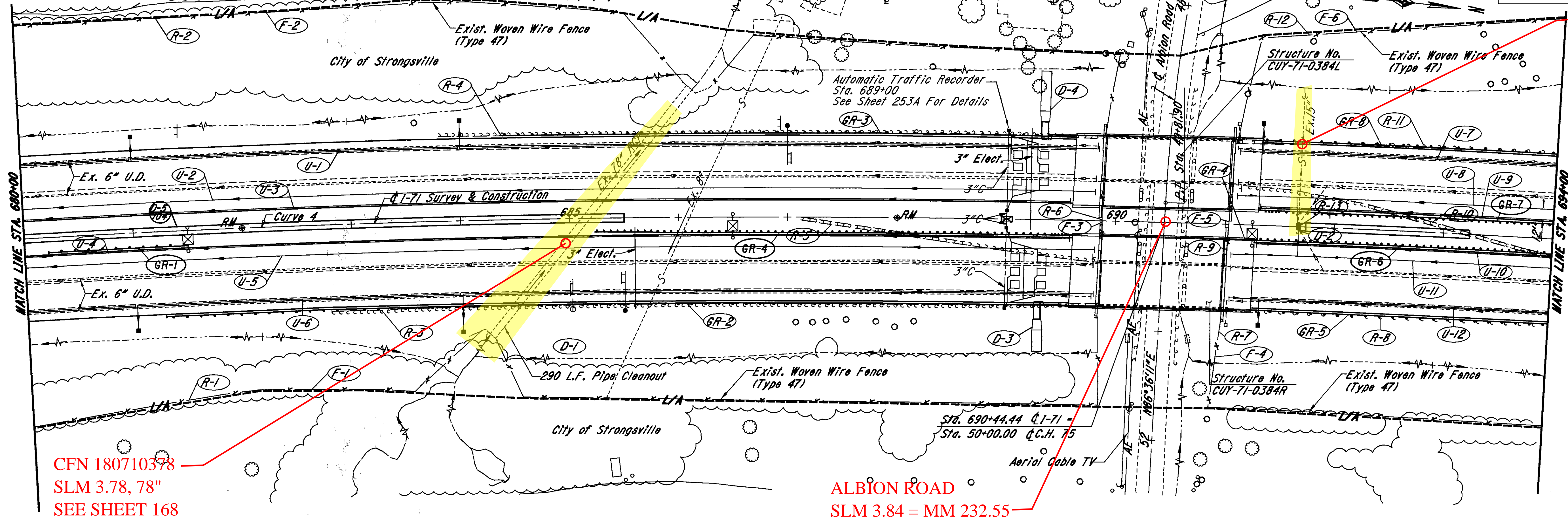
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 PLOTTED: 08/13/13  
 PLOT SUBMITTED: 05-AUG-1998 11:54  
 307QU13.DGN  
 307QU13.DGN



TEMPORARY BENCH MARK  
Sta. 688+00, Q1-71  
Top of Iron Pin in Monument Box  
Elev. 861.79

CUY-71-0.00

OH10  
FHWA REGION 5  
106  
361  
FEDERAL PROJECT

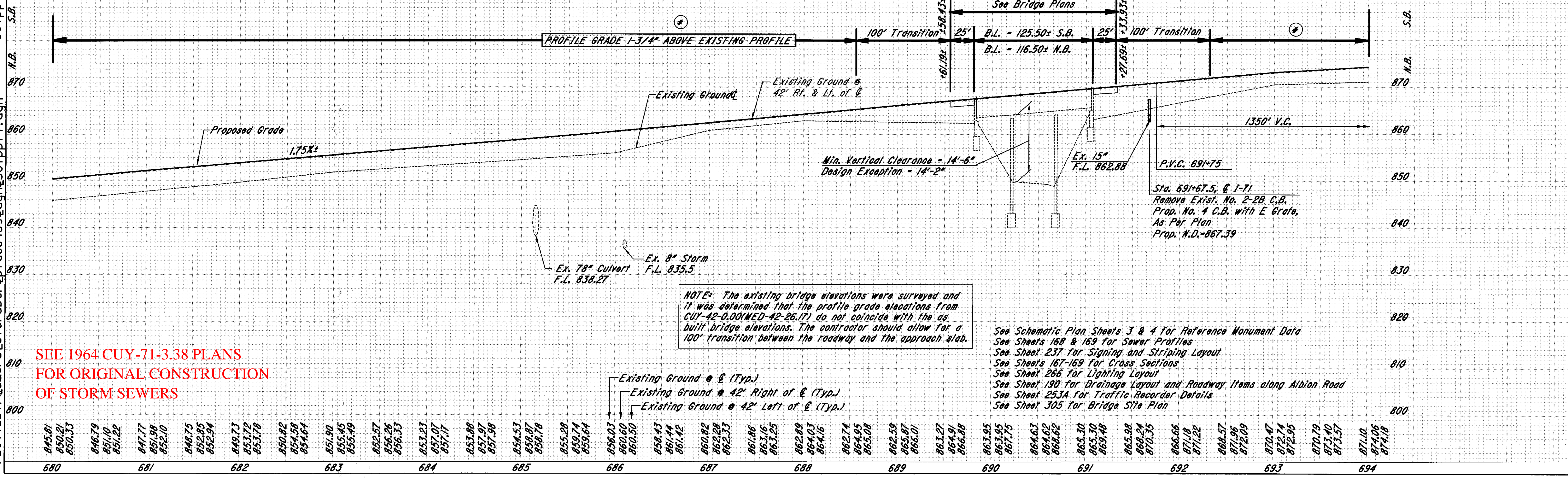


SLM 3.88, 15"  
SEE SHEET 169

Curve 4 Data  
P.I. Sta. 681+66.80  
Dc = 0°28'00"  
Δ = 11°47'15"  
R = 12277.67'  
T = 1267.42'  
L = 2525.89'  
E = 65.24'  
Ch = 2521.44'

CFN 180710378  
SLM 3.78, 78"  
SEE SHEET 168

ALBION ROAD  
SLM 3.84 = MM 232.55



NOTE: The existing bridge elevations were surveyed and it was determined that the profile grade elevations from CUY-42-0.00 (MED-42-26.17) do not coincide with the as built bridge elevations. The contractor should allow for a 100' transition between the roadway and the approach slab.

See Schematic Plan Sheets 3 & 4 for Reference Monument Data  
See Sheets 168 & 169 for Sewer Profiles  
See Sheet 237 for Signing and Striping Layout  
See Sheets 167-169 for Cross Sections  
See Sheet 266 for Lighting Layout  
See Sheet 190 for Drainage Layout and Roadway Items along Albion Road  
See Sheet 253A for Traffic Recorder Details  
See Sheet 305 for Bridge Site Plan

SEE 1964 CUY-71-3.38 PLANS  
FOR ORIGINAL CONSTRUCTION  
OF STORM SEWERS

PLOT SUBMITTED: 05-AUG-1998 07:06

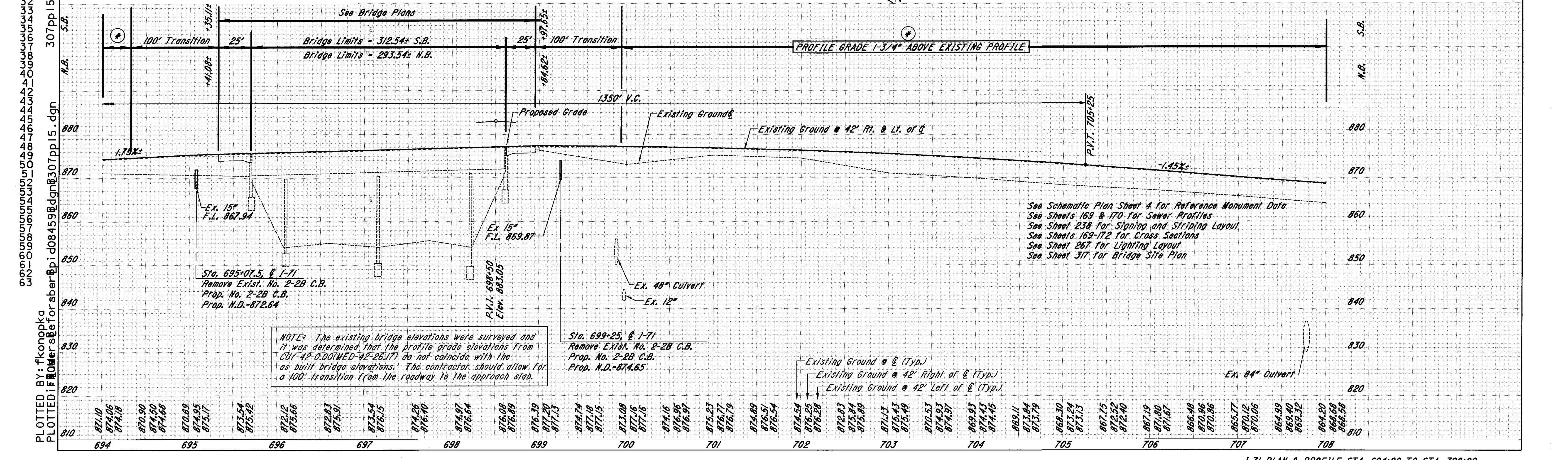
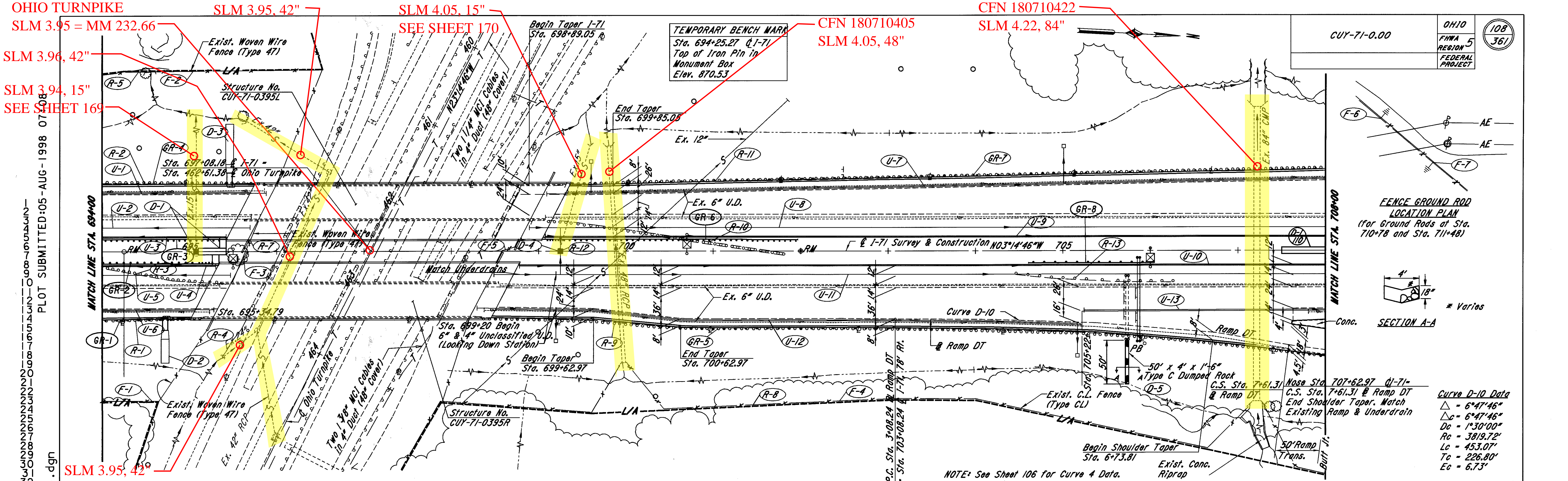
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PLOTTER: PLOTTERS

I-71 PLAN & PROFILE STA. 680+00 TO STA. 694+00









I-71 PLAN & PROFILE STA. 694+00 TO STA. 708+00

SEE 1964 CUY-71-3.38 PLANS  
FOR ORIGINAL CONSTRUCTION  
OF STORM SEWERS

PLOTTED BY: fkonopka  
 PLOTTED IN: 08/15/98  
 PLOT SUBMITTED: 05-AUG-1998 07:08  
 307pp15.dgn  
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 307pp15.dgn



\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE

REF. NO.	STATION		SIDE	DRAINAGE													
				601		603		604		605				660	670	838	604
				Dumped Rock Fill, Type C	6" Conduit, Type F ##	Catch Basin, No. 2-2B	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Reinforced Sodding	Ditch Erosion Protection	Gabion, With Additional Coating	Precast Reinforced Concrete Outlet		
FROM	TO	Cu.Yd.	Lin.Ft.	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Sq.Yd.	Cu.Yd.	Each				
U-1	694+00	695+90	Lt.														
U-2	694+00	695+70	Lt.					170									
U-3	694+00	695+43	Lt.				143										
U-4	694+00	695+30	Rt.				130										
U-5	694+00	695+49	Rt.					149									
U-6	694+00	695+29	Rt.						129								
U-7	699+09	708+00	Lt.		60					62				2			
U-8	698+90	708+00	Lt.		15			875			48						
U-9	699+07	708+00	Lt.				875										
U-10	698+78	708+00	Rt.				875										
U-11	698+48	708+00	Rt.		15			875			60						
U-12	698+29	705+22	Rt.		60					602	113			2			
U-13	705+22	708+00	Rt.							278							
D-1	695+07.50	695+41	Lt.										46.7				
D-2	694+98.43	694+98.43	Rt.							19.2			3.3				
D-3	695+69.50	695+69.50	Lt.							55.2			3.3				
D-4	699+25	699+25	Lt.														
D-5	705+72	705+72	Rt.	11.1													
TOTALS				11.1	150		2	2023	2069	2039	175	108	74.4	46.7	7	4	

ROADWAY

REF. NO.	STATION		SIDE	202	
				Guardrail Removed	Fence Removed
				Lin.Ft.	Lin.Ft.
FROM	TO				
R-1	694+00	695+07	Rt.	108	
R-2	694+00	695+59	Lt.	159	
R-3	694+00	695+29	Rt.	130	
R-4	694+00	695+28	Rt.		178
R-5	694+00	696+00	Lt.		392
R-7	695+64	695+64	Lt./Rt.		75
R-8	698+20	707+69	Rt.		1176
R-9	698+35	708+00	Rt.		968
R-10	699+07	701+82	Lt./Rt.		277
R-11	699+19	708+00	Lt.		885
R-13	704+45	706+27	Rt.		182
TOTALS				2709	1821

FENCE

REF. NO.	STATION		SIDE	607			625
				Fence, Type CLT	Gate, Type CL As Per Plan	Ground Rod	
				Lin.Ft.	Each	Each	
FROM	TO						
F-1	694+00	695+28	Rt.	178			
F-2	694+00	696+00	Lt.	392			
F-3	695+64	695+64	Lt./Rt.	23	1		
F-4	698+20	707+69	Rt.	1176			
F-5	698+66	698+66	Lt./Rt.	35	1		
F-6	710+78		Rt.			1	
F-7	711+48		Rt.			1	
TOTALS				1804	2	2	

GUARDRAIL

REF. NO.	STATION		SIDE	606						203	448
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Bridge Terminal, Assembly, Type 1	Bridge Terminal, Assembly, Type 2	Linear Grading, As Per Plan	3" Asphalt Concrete Intermediate Course Type 1, Pg 64-22	
				Lin.Ft.	Each	Each	Each	Each	Lin. Ft.	Cu. Yd.	
FROM	TO										
GR-1	694+00	695+04.96	Rt.	104.96			1			3.88	
GR-2	694+00	695+36.14	Rt.	136.14			1		141.36	5.04	
GR-3	694+00	695+44.15	Lt.	144.15			1		149.15	5.33	
GR-4	694+00	695+75.33	Lt.	175.33			1			6.49	
GR-5	698+44.40	708+00	Rt.	962.5			1			35.65	
GR-6	699+02.59	701+96.34	Lt.	243.75	1		1		293.75	13.51	
GR-7	699+33.77	708+00	Lt.	866.23			1			32.08	
GR-8	704+62.5	706+00	Rt.	75	1	1			142.5	5.87	
TOTALS				2708.1	2	1	4	3	726.76	107.9	
									7.3 Stas.		

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 PLOTTED DATE: 08/15/98  
 PLOT SUBMITTED: 05-AUG-1998 11:56  
 307QU15.DGN  
 d08459@ddgn\307qu15.dgn







\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

REF. NO.	STATION		SIDE	DRAINAGE												
				603		604		605				670		604		
				6" Conduit, Type F ##	Catch Basin, No. 4 with E-Grate, As Per Plan	Catch Basin, No. 6	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet			
FROM	TO	Lin.Ft.	Each	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Each					
U-1	708+00	710+90	Lt.	25					290	11					1	
U-2	708+00	722+00	Lt.	15				1400				13				
U-3	708+00	722+00	Lt.				1400									
U-4	708+00	722+00	Rt.				1400									
U-5	708+00	722+00	Rt.	15			1400				13					
U-6	708+00	719+62	Rt.	60					1162						2	
U-7	710+90	722+00	Lt.	15					1110	11					1	
U-8	716+50	721+00	Lt.				450									
U-9	717+00	719+69	Rt.				269									
U-10	719+69	722+00	Rt.						231							
D-1	707+50	713+45	℄												495.8	
D-2	713+50	715+00	℄		1										125	
D-4	219+62	219+62	Rt.			1										
TOTALS				130	1	1	3519	2800	2793	22	26	620.8	4			

REF. NO.	STATION		SIDE	ROADWAY				
				202		203		
				Guardrail Removed	Fence Removed			Ditch Cleanout
FROM	TO	Lin.Ft.	Lin.Ft.			Lin.Ft.		
R-1	708+00	711+77	Rt.	422				
R-2	708+00	713+01	Lt.	501				
R-4	716+63	719+10	Rt.	247				
R-5	717+34	719+27	Lt./Rt.	386				
R-6	717+53	719+89	Lt.	236				
R-7	719+80	722+00	Rt.		221			
D-3	719+88	721+78	Rt.					190
TOTALS				1792	221			190

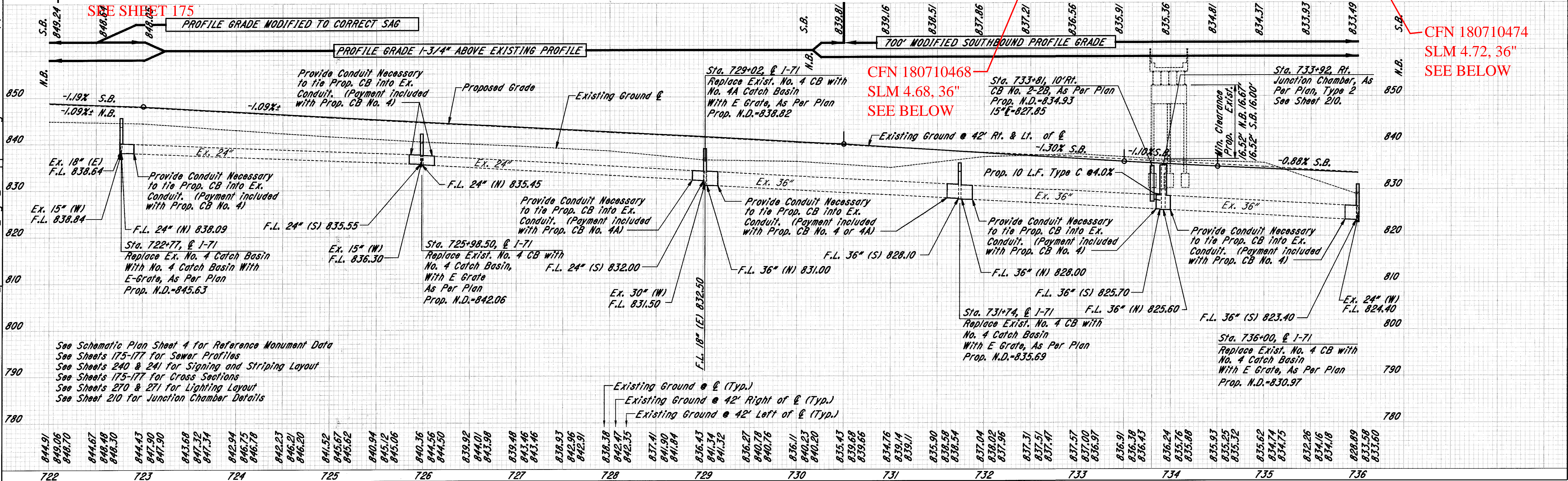
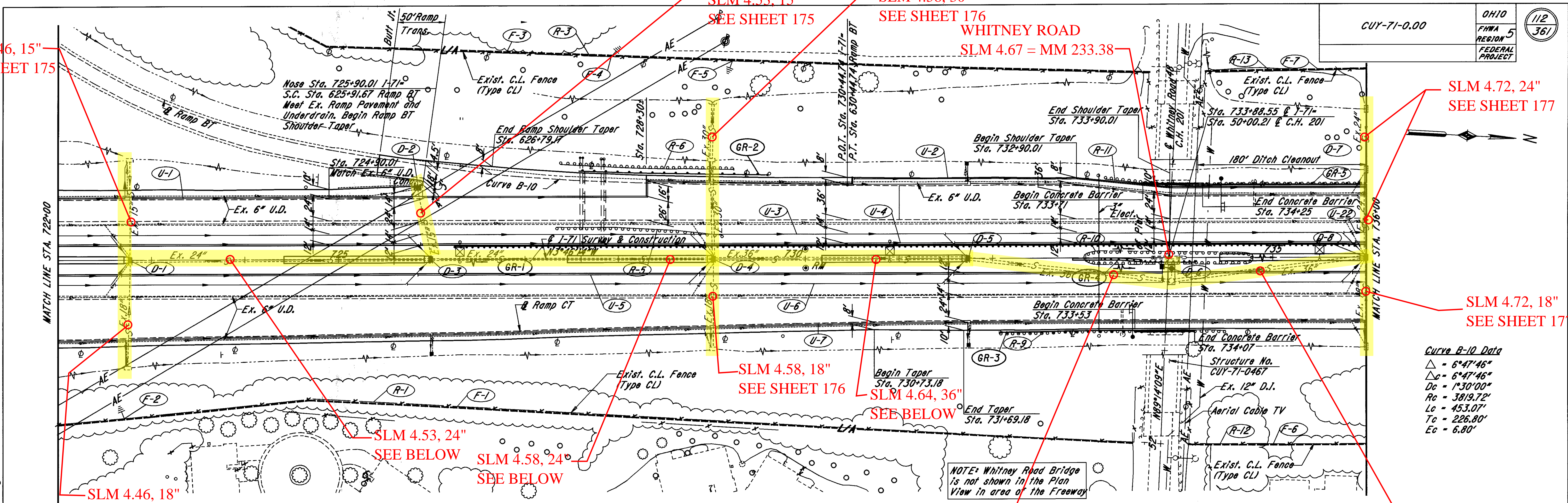
REF. NO.	STATION		SIDE	FENCE	
				607	625
				Fence, Type CLT	Ground Rod
FROM	TO	Lin.Ft.	Each		
F-1	719+61		Rt.		1
F-2	719+74		Rt.		1
F-3	719+80	722+00	Rt.	221	
F-4	721+05		Rt.		1
TOTALS				221	3

REF. NO.	STATION		SIDE	GUARDRAIL									
				606		606	606	606	606	622	203	448	
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Bridge Terminal Assembly, Type 1	Bridge Terminal Assembly, Type 2	Guardrail, Type 5A	Guardrail, Barrier Design, Type 5	Impact Attenuator Type 1-98	Concrete Barrier, Type D, As Per Plan A	Linear Grading, As Per Plan
FROM	TO	Lin.Ft.	Each	Each	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Each	Lin.Ft.	Lin. Ft.	Cu. Yd.	
GR-1	708+00	710+50	Rt.	237.5		1							9.26
GR-2	708+00	714+02.52	Lt.	552.52	1								23.09
GR-3	708+60	709+85	Rt.	62.5	1	1						130	5.41
GR-4	712+65	719+77.5	Rt.	650	1	1						720	27.22
GR-5	716+75	718+62.5	Rt.	75	1	1		50					7.72
GR-6	718+01.85	719+75	Lt.	56.25	1		1				69		4.71
GR-7	717+99	719+11.5	Lt.	37.5		1		50	12.5	1		149	4.94
TOTALS				1671.3	5	5	1	100	12.5	1	69	999	82.4
												10 Stas.	

PLOTTED BY: lmincek  
 PLOTTED DATE: 08/16/98  
 PLOT SUBMITTED: 05-AUG-1998 11:57  
 3070U16.DGN  
 3070U16.DGN



PLOTTED BY: fkonopka  
 PLOTTED DATE: 08/14/1998  
 PLOT SUBMITTED: 04-AUG-1998 12:04  
 307pp17.dgn



**Curve R-10 Data**  
 $\Delta = 6^{\circ}47'46''$   
 $D_c = 6^{\circ}47'46''$   
 $D_c = 1^{\circ}30'00''$   
 $R_c = 3819.72'$   
 $L_c = 453.07'$   
 $T_c = 226.80'$   
 $E_c = 6.80'$

NOTE: Whitney Road Bridge  
 is not shown in the Plan  
 View in area of the Freeway

See Schematic Plan Sheet 4 for Reference Monument Data  
 See Sheets 175-177 for Sewer Profiles  
 See Sheets 240 & 241 for Signing and Striping Layout  
 See Sheets 175-177 for Cross Sections  
 See Sheets 270 & 271 for Lighting Layout  
 See Sheet 210 for Junction Chamber Details

1-71 PLAN & PROFILE STA. 722+00 TO STA. 736+00

SEE 1964 CUY-71-3.38 PLANS  
 FOR ORIGINAL CONSTRUCTION  
 OF STORM SEWERS



\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE

REF. NO.	STATION		SIDE	603		604				605				670	604		
				6" Conduit, Type F ##	15" Conduit, Type C	Catch Basin, No. 4 with E-Grate, As Per Plan	Catch Basin, No. 4A with E-Grate, As Per Plan	Catch Basin Reconstructed to Grade	Junction Chamber, Type 2, As Per Plan	Catch Basin, No. 2-2B, A.P.P.	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet
U-1	722+00	736+00	Lt.	75													
U-2	730+50	736+00	Lt.							550							
U-3	722+00	736+00	Lt.	75						1400				65			
U-4	722+00	736+00	Lt.							1400							
U-5	722+00	736+00	Rt.							1400							
U-6	722+00	736+00	Rt.	90										78			
U-7	722+00	736+00	Rt.	75							1400	44			3		
TOTALS				315	10						3350	2800	2816	88	143	625	5

ROADWAY

REF. NO.	STATION		SIDE	202		203
				Guardrail Removed	Fence Removed	Ditch Cleanout
R-1	720+00	733+63	Rt.		1223	
R-3	724+86	733+75	Lt.		950	
R-5	727+33	729+12	Lt.	179		
R-6	727+37	729+24	Lt.	187		
R-9	732+07	734+50	Rt.	242		
R-10	732+98	734+79	Lt./Rt.	362		
R-11	733+20	736+00	Lt.	282		
R-12	734+02	736+00	Rt.		259	
R-13	734+15	736+00	Lt.		243	
D-7	734+20	736+00	Lt.			180
TOTALS				1252	2675	180

FENCE

REF. NO.	STATION		SIDE	607		625
				Fence, Type CLT	Ground Rod	
						Lin.Ft.
F-1	722+00	733+63	Rt.	1223		
F-2	722+71		Rt.		1	
F-3	724+86	733+75	Lt.	950		
F-4	727+92		Lt.		1	
F-5	729+22		Lt.		1	
F-6	734+02	736+00	Rt.	259		
F-7	734+15	736+00	Lt.	243		
TOTALS				2675	3	

GUARDRAIL

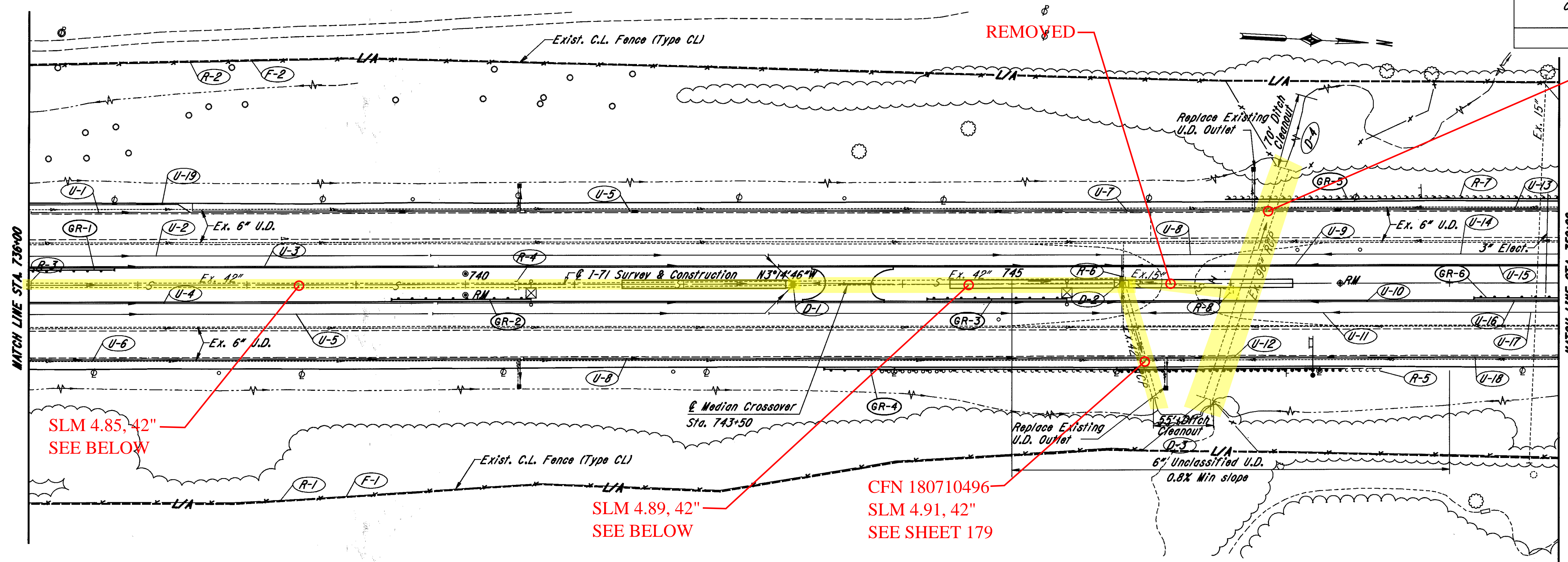
REF. NO.	STATION		SIDE	606				622	606	606	606	203	448
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Bridge Terminal Assembly, Type I	Guardrail, Type 5A	Guardrail, Barrier Design, Type 5	Impact Attenuator, Type I-98	Concrete Barrier, Type D, As Per Plan A	Linear Grading, As Per Plan	3" Asphalt Concrete Intermed Course, Type I, PG 64-22
GR-1	726+26	736+00	Lt.	950	1	1					1017	37.5	
GR-2	727+82	729+57	Lt.	112.5	1	1						7.26	
GR-3	732+11.35	734+07	Rt.	93.75	1	1				54		6.10	
GR-4	733+19.5	734+07	Rt.	37.5	1	1	25	12.5	1		124	5.19	
GR-5	733+71	735+91.65	Lt.	118.75	1	1				54		6.25	
TOTALS				1312.50	4	3	2	25	12.5	1	108	1141	62.3

11.4 Stas.

PLOTTED BY: lminceck  
 PLOTTED: 08/05/17  
 PLOT SUBMITTED: 05-AUG-1998 11:57  
 3070U17.DGN  
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PLOT SUBMITTED: 04-AUG-1998 12:04  
307ppi18.dgn

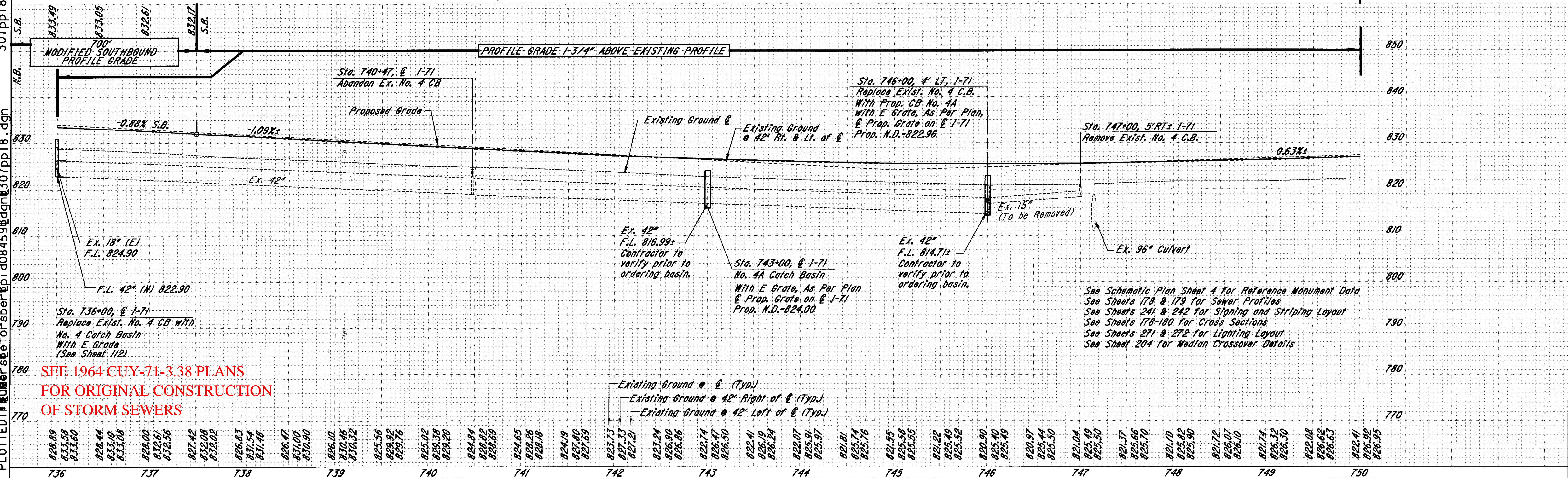


CFN 180710498  
SLM 4.98, 96"  
SEE SHEET 180

SLM 4.85, 42"  
SEE BELOW

SLM 4.89, 42"  
SEE BELOW

CFN 180710496  
SLM 4.91, 42"  
SEE SHEET 179



SEE 1964 CUY-71-3.38 PLANS  
FOR ORIGINAL CONSTRUCTION  
OF STORM SEWERS

See Schematic Plan Sheet 4 for Reference Monument Data  
See Sheets 178 & 179 for Sewer Profiles  
See Sheets 241 & 242 for Signing and Striping Layout  
See Sheets 178-180 for Cross Sections  
See Sheets 271 & 272 for Lighting Layout  
See Sheet 204 for Median Crossover Details

I-71 PLAN & PROFILE STA. 736+00 TO STA. 750+00



## 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

REF. NO.	STATION		SIDE	DRAINAGE												
				603		604		605				670	604			
				6" Conduit, Type F ##		Catch Basin, No. 4A with E-Grate, As Per Plan		6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet		
Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Each	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Each						
	FROM	TO														
U-1	736+00	745+00	Lt.	15												
U-2	736+00	745+00	Lt.	15					900							
U-3	736+00	745+00	Lt.					900								
U-4	736+00	745+00	Rt.					900								
U-5	736+00	745+00	Rt.	15					900							
U-6	736+00	745+00	Rt.	20						900						
U-7	745+00	749+00	Lt.	30							411					
U-8	745+00	749+00	Lt.	15								413				
U-9	745+00	749+00	Lt.								400					
U-10	745+00	749+00	Rt.								400					
U-11	745+00	749+00	Rt.	15								413				
U-12	745+00	749+00	Rt.	20												
U-13	749+00	750+00	Lt.							100						
U-14	749+00	750+00	Lt.							100						
U-15	749+00	750+00	Lt.						100							
U-16	749+00	750+00	Rt.						100							
U-17	749+00	750+00	Rt.							100						
U-18	749+00	750+00	Rt.							100						
D-1	741+45	743+00	℄												125	
D-2	744+45	747+55	℄												250	
TOTALS				145		2		2000	2000	2000	1644	852	375			4

REF. NO.	STATION		SIDE	ROADWAY								
				202		202	203					
				Guardrail Removed	Fence Removed	Catch Basin or Inlet Removed	Pipe Removed, Under 24"	Catch Basin Abandoned	Ditch Cleanout			
	FROM	TO		Lin.Ft.	Lin.Ft.	Each	Lin.Ft.	Each	Lin.Ft.			
R-1	736+00	750+00	Rt.									
R-2	736+00	750+00	Lt.									
R-4	740+47	740+47	℄									
R-5	743+79	748+38	Rt.	459								
R-6	746+00.3	746+00.3	℄									
R-7	746+96	750+00	Lt.	304								
R-8	747+00	747+00	℄						1	100		
D-3	746+29	746+29	Rt.									55
D-4	747+50	747+50	Lt.									70
TOTALS				763	2901	1	100	1				125

REF. NO.	STATION		SIDE	607	
				FROM	TO
				Lin.Ft.	Lin.Ft.
F-1	736+00	750+00	Rt.		1432
F-2	736+00	750+00	Lt.		1469
TOTALS					2901

REF. NO.	STATION		SIDE	GUARDRAIL				
				606			203	448
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Linear Grading, As Per Plan	3" Asphalt Concrete, Intermediate Course, Type 1, PG 64-22
	FROM	TO		Lin.Ft.	Each	Each	Lin. Ft.	Cu. Yd.
GR-1	736+00	736+76	Lt.	37.5	1		92.5	4.02
GR-2	739+35	740+60	Rt.	62.5	1	1	130	5.41
GR-3	744+25	745+50	Rt.	62.5	1	1	130	5.41
GR-4	743+30	747+80	Rt.	387.5	1	1		17.44
GR-5	746+95	750+00	Lt.	292.5		1		11.29
GR-6	749+25	750+00	Rt.	37.5	1		92.5	4.02
TOTALS				730	5	4	445	47.6
				4.4 Stas.				

PLOTTED BY: lmincek  
 PLOTTED DATE: 08/18/98  
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 307QU18.DGN  
 pi d084599@dgn\307qu18.dgn







\*\* 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE

REF. NO.	STATION		SIDE	DRAINAGE														
				601		603		604		605					660	670	838	604
				Foot Channel Protection, Type C With Filter	6" Conduit, Type F ##	Catch Basin, No. 4 with E-Gate, As Per Plan	Catch Basin, No. 5 As Per Plan	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Reinforced Sodding	Ditch Erosion Protection	Gabion, With Additional Coating	Precast Reinforced Concrete Outlet		
FROM	TO	Cu.Yd.	Lin.Ft.	Lin.Ft.	Each	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Cu.Yd.	Each		
U-1	750+00	761+51	Lt.														3	
U-2	750+00	761+44	Lt.		75													
U-3	750+00	761+20	Lt.						1120									
U-4	750+00	761+15	Rt.						1115									
U-5	750+00	761+38	Rt.															
U-6	750+00	761+36	Rt.		45					1136	22						2	
U-7	751+51	764+00	Lt.		10					48	52						1	
U-8	751+51	764+00	Lt.		15					42		64						
U-9	753+46	764+00	Lt.						42		28							
U-10	753+46	764+00	Rt.						42		33							
U-11	756+02	764+00	Rt.		15					42		71						
U-12	756+02	764+00	Rt.							43	73						1	
D-1	761+20	760+85	Ø												46.7			
D-2	763+58	765+13	Ø				1	1						125				
D-3	751+26	751+26	Rt.	2.2														
D-6	759+65	759+65	Rt.	1.3														
D-9	760+82.50	760+82.50	Rt.											9.3	3.3			
D-10	760+99.50	760+99.50	Lt.											24.7	3.3			
TOTALS				3.5	160		1	1		2319	2372	2378	241	135	34.0	171.7	7	7

ROADWAY

REF. NO.	STATION		SIDE	202		203	Special
				Guardrail Removed	Fence Removed	Ditch Cleanout	Pipe Cleanout
				Lin.Ft.	Lin.Ft.	Lin. Ft.	Lin.Ft.
FROM	TO						
R-1	750+00	756+20	Lt.	618			
R-2	750+00	761+39	Rt.		1281		
R-3	750+00	761+56	Lt.		1332		
R-4	758+69	761+41	Lt./Rt.	275			
R-5	759+51	761+53	Lt.	201			
R-6	759+74	761+37	Rt.	164			
R-8	761+47	761+47	Lt./Rt.		67		
R-9	762+90	764+00	Rt.		208		
R-10	763+00	763+00	Lt./Rt.		67		
R-11	763+05	764+00	Lt.	94			
R-12	763+09	764+00	Lt.	89			
R-13	763+09	764+00	Lt.		152		
D-4	751+29	752+04	Rt.			75	
D-7	760+08	760+08	Rt.				100
D-8	759+76	760+81	Lt.			105	
TOTALS				1441	3107	180	100

FENCE

REF. NO.	STATION		SIDE	607	
				Fence, Type CLT	Gate, Type CL, As Per Plan
				Lin.Ft.	Each
FROM	TO				
F-1	750+00	761+39	Rt.	1281	
F-2	750+00	761+56	Lt.	1332	
F-3	761+47	761+47	Lt./Rt.	20	1
F-4	762+90	764+00	Rt.	208	
F-5	763+00	763+00	Lt./Rt.	20	1
F-6	763+09	764+00	Lt.	152	
TOTALS				3013	2

GUARDRAIL

REF. NO.	STATION		SIDE	606					203	448
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Bridge Terminal Assembly, Type 1	Bridge Terminal Assembly, Type 2	Linear Grading, As Per Plan	3" Asphalt Concrete, Intermediate Course, Type 1, PG 64-22
				Lin.Ft.	Each	Each	Each	Each	Lin. Ft.	Cu.Yd.
FROM	TO									
GR-1	750+00	750+50	Rt.	25		1			42.5	1.39
GR-2	750+00	754+70	Lt.	420	1					18.19
GR-3	754+25	755+50	Rt.	62.5	1	1			130.0	5.41
GR-4	758+51.38	761+20.13	Rt.	218.75	1		1		273.7	10.73
GR-5	758+44.35	761+13.10	Rt.	218.75	1		1			10.73
GR-6	763+26.12	764+00	Lt.	73.88			1		78.9	2.74
GR-7	763+33.15	764+00	Lt.	66.85			1			2.48
TOTALS				1010.7	4	2	4		525	51.7
									5.2 Stas.	

PLOTTED BY: lmincek  
 PLOTTED: 08/19/98  
 PLOT SUBMITTED: 05-AUG-1998 12:15  
 307QU19.DGN  
 pi d084599dgn307qu19.dgn

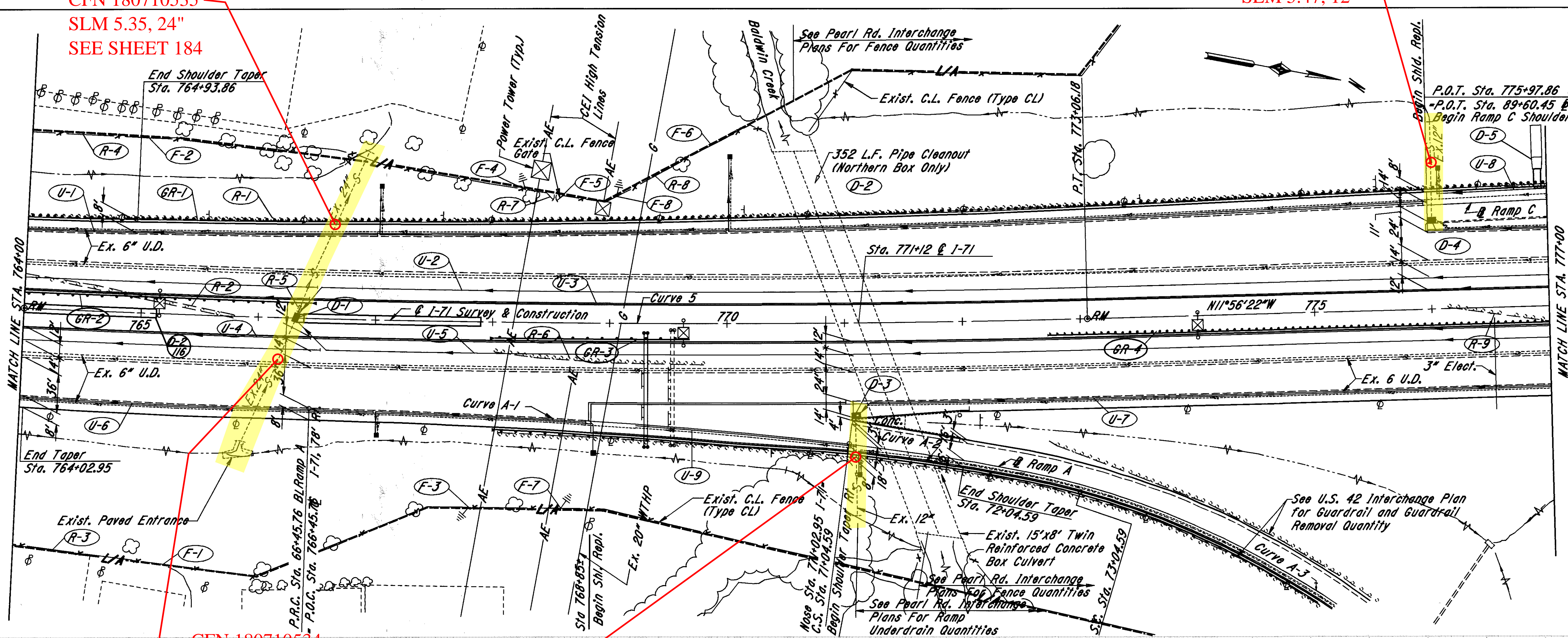


PLOT SUBMITTED 06-AUG-1998 09:07

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PLOTTED BY: fkonopka  
PLOTTER: HP-GL/PS for sbefor



**Curve A-1 Data**

Δ = 4°35'18"  
D = 1°00'00"  
R = 5729.58'  
T = 229.54'  
L = 458.83'  
E = 4.60'

**Curve A-2 Data**

Δ = 9°00'00"  
Lo = 200.00'  
θo = 7°00'00"  
Po = 2.04'  
T1 = 126.16'  
T2 = 74.25'  
Δ1 = D1 = 1°00'00"  
Δ2 = D2 = 8°00'00"  
R1 = 5729.58'  
R2 = 716.20'

**Curve A-3 Data**

Δ = 32°55'42"  
Δc = 24°55'42"  
Dc = 8°00'00"  
Rc = 716.20'  
Lo = 311.60'  
Tc = 158.31'  
Ec = 17.29'  
Ls1 = 0.00'  
Ls2 = 200.00'  
θs2 = 8°00'00"  
Pe = 2.33'  
Ke = 99.94'  
Xc2 = 199.61'  
Yc2 = 9.30'  
LT2 = 133.47'  
T1 = 126.16'  
T2 = 74.25'  
Ts1 = 215.94'  
Ts2 = 308.00'

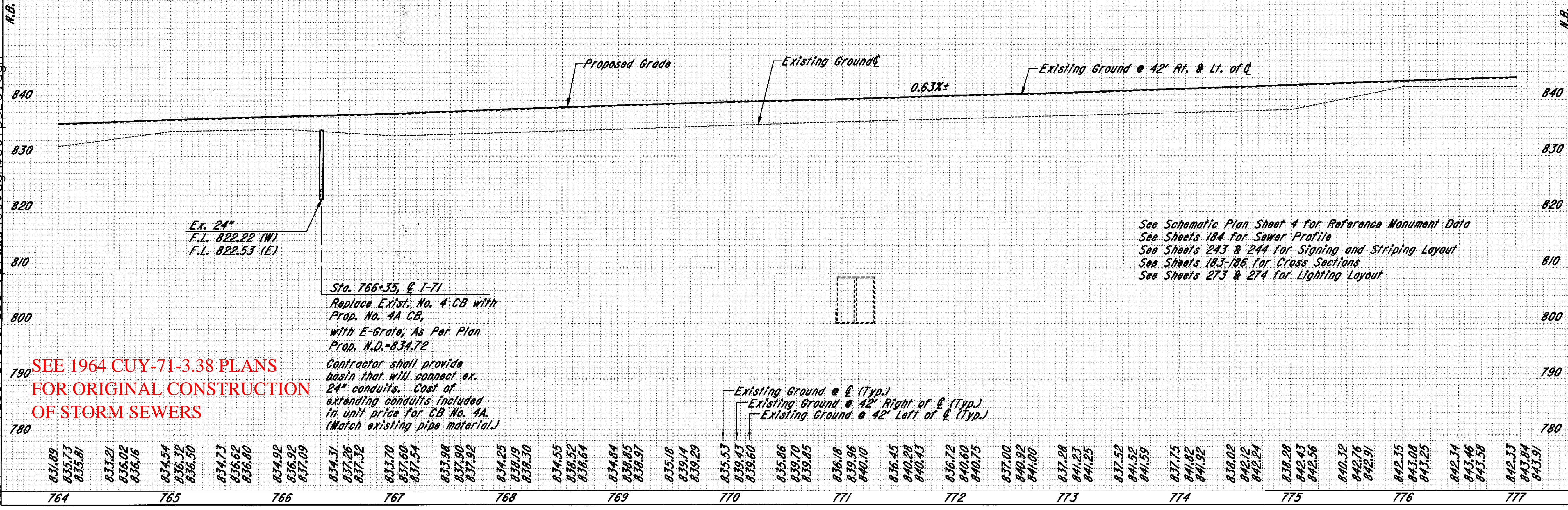
**Curve 5 Data**

P.I. Sta. 763+76.54  
Dc = 0°28'00"  
Δ = 8°41'36"  
R = 12277.67'  
T = 933.22'  
L = 1862.86'  
E = 35.42'  
Ch = 1861.07'

CFN 180710534  
SLM 5.34, 24"  
SEE SHEET 184

SLM 5.38, 12"

PROFILE GRADE 1-3/4" ABOVE EXISTING PROFILE



SEE 1964 CUY-71-3.38 PLANS FOR ORIGINAL CONSTRUCTION OF STORM SEWERS

Sta. 766+35, @ I-71  
Replace Exist. No. 4 CB with Prop. No. 4A CB, with E-Grate, As Per Plan Prop. N.D.-834.72  
Contractor shall provide basin that will connect ex. 24" conduits. Cost of extending conduits included in unit price for CB No. 4A. (Match existing pipe material.)

See Schematic Plan Sheet 4 for Reference Monument Data  
See Sheet 184 for Sewer Profile  
See Sheets 243 & 244 for Signing and Striping Layout  
See Sheets 183-186 for Cross Sections  
See Sheets 273 & 274 for Lighting Layout



## 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE															
REF. NO.	STATION	SIDE	603		604		605				660	670	838	604	
			6" Conduit, Type F ##		Catch Basin, No. 44 with E-Grade, As Per Plan	Catch Basin Reconstructed to Grade	6" Shallow Pipe I.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe I.D. (30" Deep)	6" Shallow Pipe I.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Reinforced Sodding	Ditch Erosion Protection	Gabions with Additional Coatings	Precast Reinforced Concrete Outlet
	FROM	TO	Lin.Ft.	Each	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq. Yd.	Sq.Yd.	Cu. Yd.	Each	
U-1	764+00	775+97	Lt.	85										2	
U-2	764+00	777+00	Lt.	15				1300			13				
U-3	764+00	777+00	Lt.					1300							
U-4	764+00	777+00	Rt.												
U-5	764+00	777+00	Rt.	15				1300		13					
U-6	764+00	768+85	Rt.						485						
U-7	768+85	777+00	Rt.	20					815	25				1	
U-8	775+97	777+00	Lt.	15					103					1	
U-9	768+85	771+00	Lt.	10					215	11				1	
TOTALS															
			160		1	2	2600	2600	2815	58	26	36.2	125	3.3	5
D-1	766+35	766+35	℄										125		
D-3	771+09	771+09	79.4' Rt.											1	
D-4	776+02	776+02	76.3' Lt.											1	
D-5	776+84.2	776+84.2	Lt.								36.2		3.3		
TOTALS															
			160		1	2	2600	2600	2815	58	26	36.2	125	3.3	5

ROADWAY									
REF. NO.	STATION	SIDE	202				Special		
			Guardrail Removed	Fence Removed	Gate Removed	Catch Basin or Inlet Removed	Pipe Cleanout		
	FROM	TO	Lin.Ft.	Lin.Ft.	Each	Each	Lin.Ft.		
R-1	764+00	777+00	Lt.	1294					
R-2	764+00	765+80	Lt.	182					
R-3	764+00	771+61	Rt.		816				
R-4	764+00	768+45	Lt.		444				
R-5	766+35	766+35	℄				1		
R-6	768+01	769+81	Rt.	181					
R-7	768+45	768+59	Lt.			1			
R-8	768+59	770+32	Lt.		190				
R-9	776+13	777+00	Rt.	88					
TOTALS									
				1745	1450	1	1	352	

FENCE						
REF. NO.	STATION	SIDE	607		625	
			Fence, Type CLT	Gate, Type CL, As Per Plan	Ground Rod	
	FROM	TO	Lin.Ft.	Each	Each	Each
F-1	764+00	771+61	Rt.	816		
F-2	764+00	768+45	Lt.	444		
F-3	767+82	767+82	Rt.			1
F-4	768+27	768+27	Lt.			1
F-5	768+45	768+59	Lt.		1	
F-6	768+59	770+32	Lt.	190		
F-7	768+60	768+60	Rt.			1
F-8	769+05	769+05	Lt.			1
TOTALS						
			1450	1		4

GUARDRAIL								
REF. NO.	STATION	SIDE	606			203	448	
			Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Linear Grading, As Per Plan	3" Asphalt Concrete Intermediate Course Type 1, PG 64-22	
	FROM	TO	Lin.Ft.	Each	Each	Lin. Ft.	Cu.Yd.	
GR-1	764+00	777+00	Lt.	1300				48.15
GR-2	764+00	766+44.87	Lt.	194.87	1		249.87	9.85
GR-3	768+02.5	769+65	Rt.	100	1	1	167.5	6.80
GR-4	772+73.85	777+00	Rt.	376.15	1		431.15	16.56
TOTALS								
			1971	3	1	849	81.4	
8.5 Stas.								

PLOTTED BY: lmincek  
 PLOTTED: 08/05/98  
 PLOT SUBMITTED: 05-AUG-1998 12:01  
 3070U20.DGN



PLOT SUBMITTED 04-AUG-1998 12:16

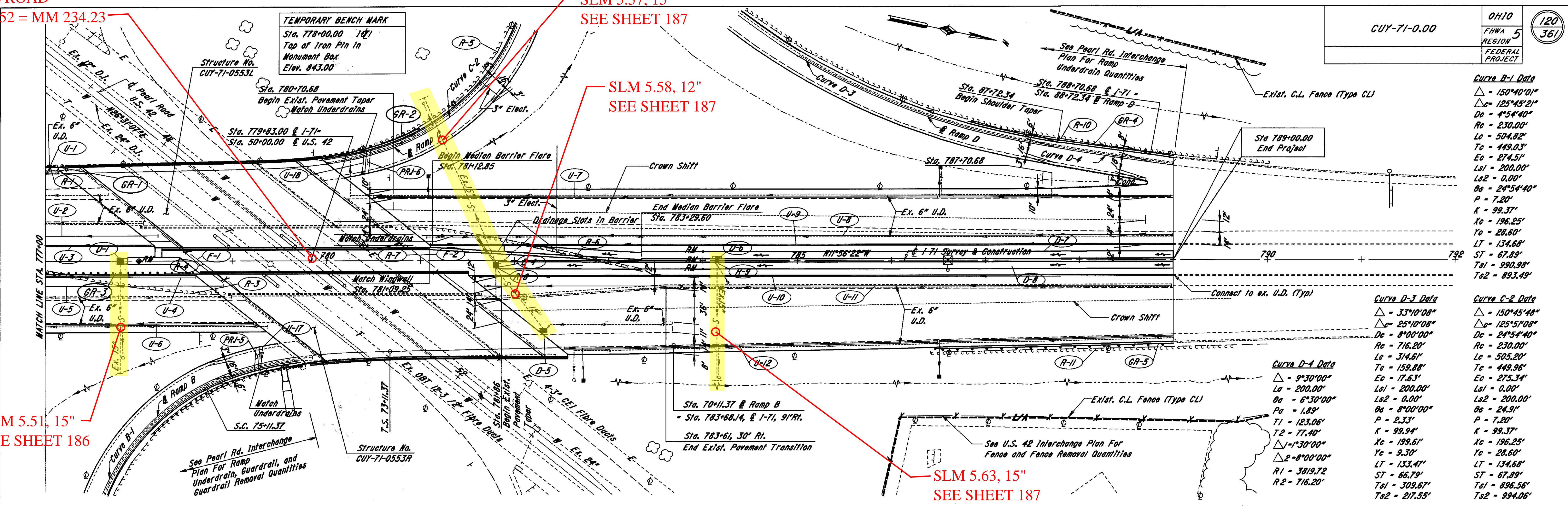
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307pp21.dgn

307pp21.dgn



**Curve B-1 Data**  
 $\Delta = 150^{\circ}40'01''$   
 $\Delta e = 125^{\circ}45'21''$   
 $Dc = 4^{\circ}54'40''$   
 $Rc = 230.00'$   
 $Lc = 504.82'$   
 $Tc = 449.03'$   
 $Ec = 274.51'$   
 $Ls1 = 200.00'$   
 $Ls2 = 0.00'$   
 $Os = 2^{\circ}54'40''$   
 $P = 7.20'$   
 $K = 99.37'$   
 $Xc = 196.25'$   
 $Yc = 28.60'$   
 $LT = 134.68'$   
 $ST = 67.89'$   
 $Ts1 = 990.98'$   
 $Ts2 = 893.49'$

**Curve D-3 Data**  
 $\Delta = 33^{\circ}10'08''$   
 $\Delta e = 25^{\circ}10'08''$   
 $Dc = 8^{\circ}00'00''$   
 $Rc = 716.20'$   
 $Lc = 314.61'$   
 $Tc = 159.88'$   
 $Ec = 17.63'$   
 $Ls1 = 200.00'$   
 $Ls2 = 0.00'$   
 $Os = 8^{\circ}00'00''$   
 $P = 1.89'$   
 $T1 = 123.06'$   
 $T2 = 77.40'$   
 $\Delta J = 1^{\circ}30'00''$   
 $\Delta e = 8^{\circ}00'00''$   
 $R1 = 3819.72'$   
 $R2 = 716.20'$   
 $Ts1 = 309.67'$   
 $Ts2 = 217.55'$

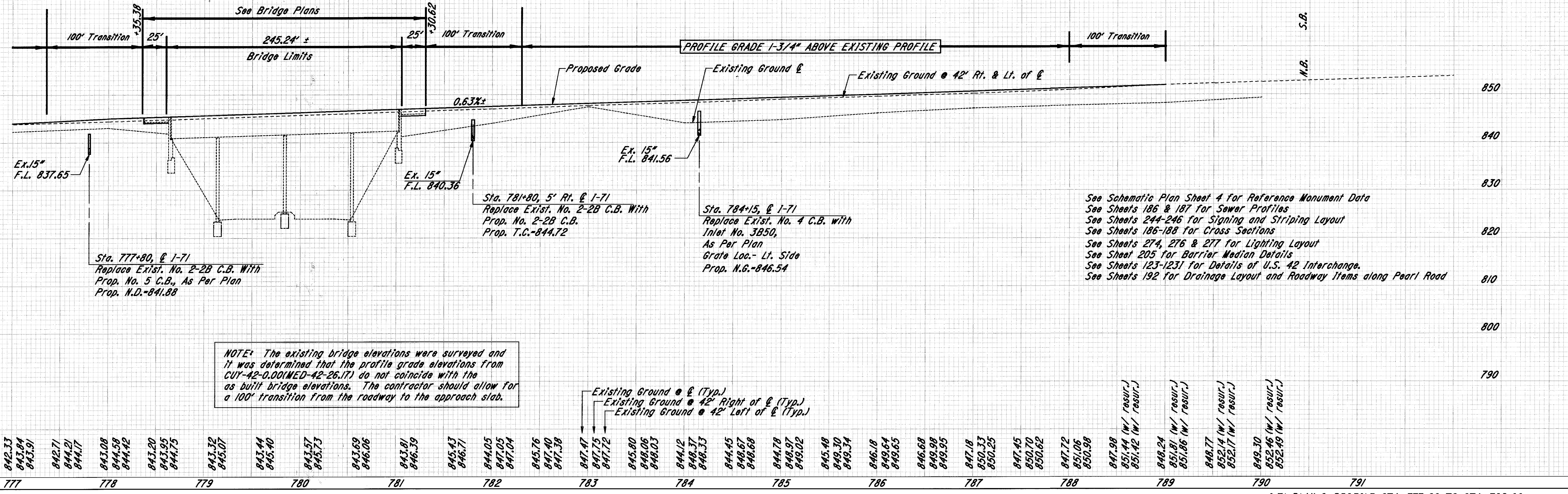
**Curve C-2 Data**  
 $\Delta = 150^{\circ}45'48''$   
 $\Delta e = 125^{\circ}51'08''$   
 $Dc = 2^{\circ}54'40''$   
 $Rc = 230.00'$   
 $Lc = 505.20'$   
 $Tc = 449.96'$   
 $Ec = 275.34'$   
 $Ls1 = 200.00'$   
 $Ls2 = 200.00'$   
 $Os = 2^{\circ}54'40''$   
 $P = 7.20'$   
 $K = 99.37'$   
 $Xc = 196.25'$   
 $Yc = 28.60'$   
 $LT = 134.68'$   
 $ST = 67.89'$   
 $Ts1 = 896.56'$   
 $Ts2 = 994.06'$

SLM 5.51, 15"  
SEE SHEET 186

SLM 5.57, 15"  
SEE SHEET 187

SLM 5.58, 12"  
SEE SHEET 187

SLM 5.63, 15"  
SEE SHEET 187



**NOTE:** The existing bridge elevations were surveyed and it was determined that the profile grade elevations from CUY-42-0.00(MED-42-26.17) do not coincide with the as built bridge elevations. The contractor should allow for a 100' transition from the roadway to the approach slab.

See Schematic Plan Sheet 4 for Reference Monument Data  
 See Sheets 186 & 187 for Sewer Profiles  
 See Sheets 244-246 for Signing and Striping Layout  
 See Sheets 186-188 for Cross Sections  
 See Sheets 274, 276 & 277 for Lighting Layout  
 See Sheet 205 for Barrier Median Details  
 See Sheets 123-1231 for Details of U.S. 42 Interchange.  
 See Sheets 192 for Drainage Layout and Roadway Items along Pearl Road

SEE 1964 CUY-71-3.38 PLANS  
FOR ORIGINAL CONSTRUCTION  
OF STORM SEWERS



## 707.41 Non-Perforated ASTM D3034,  
SDR 35, 707.42 or 707.33

DRAINAGE																	
REF. NO.	STATION		SIDE	603		604		605				670	604				
				6" Conduit, Type F **		Inlet, No. 3850	Catch Basin, No. E-2B	Catch Basin, No. 5, As Per Plan	Catch Basin, No. 6	6" Shallow Pipe U.D. w/Fabric Wrap (18" Deep)	6" Shallow Pipe U.D. (30" Deep)	6" Shallow Pipe U.D. w/Fabric Wrap (30" Deep)	6" Unclassified Underdrain w/Fabric Wrap	6" Unclassified Underdrain	Ditch Erosion Protection	Precast Reinforced Concrete Outlet	
	FROM	TO		Lin.Ft.		Each	Each	Each	Each	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.		Each		
U-1	777+00	777+14	Lt.														
U-2	777+00	778+20	Lt.								120						
U-3	777+00	778+13	Lt.														
U-4	777+00	778+60	Rt.							113							
U-5	777+00	778+90	Rt.							160							
U-6	777+00	779+22	Rt.								190						
U-7	780+49	789+00	Lt.	40								222					
U-8	781+00	789+00	Lt.	15							740			73			
U-9	781+10	789+00	Lt.							735			55				
U-10	781+55	789+00	Rt.							720			25				
U-11	781+67	789+00	Rt.	15							720			26			
U-12	782+53	789+00	Rt.	60								627	42			2	
U-17	74+55	74+55	Rt.										23				
U-18	85+13	85+13	Lt.										25				
TOTALS				130		1	1	1	1	1728	1770	1654	252	99		1263.2	4
D-1	777+80	778+60	Q													71.7	
D-3	781+74.14	781+74.14	9.47' Lt.														
D-4	781+80	781+80	5' Rt.				1										
D-5	782+30.33	782+30.33	75' Rt.										1				
D-6	784+15	784+15	Q				1										
D-7	781+89	789+00	Lt.												591.5		
D-8	781+80	789+00	Rt.												600		
TOTALS																	

ROADWAY							
REF. NO.	STATION		SIDE	202			
				Guardrail Removed	Fence Removed	Catch Basin or Inlet Removed	Pipe Removed, 24" And Under
	FROM	TO	Lin.Ft.	Lin.Ft.	Each	Lin Ft.	
R-1	777+00	777+24	Lt.	24			
R-2	777+80	777+80	Q			1	5
R-3	777+00	778+92	Rt.	198			
R-4	778+65	778+65	Lt./Rt.		114		
R-5	779+86.6	781+92	Lt.	266			
R-6	780+70	783+36	Lt./Rt.	273			
R-7	781+00	781+00	Lt./Rt.		114		
R-8	781+80	781+80	5' Rt.			1	23
R-9	784+14	784+14	Q			1	4
R-10	784+43	789+00	Lt.	486			
R-11	786+41	789+00	Rt.	258			
TOTALS				1505	228	3	32

QUANTITIES FOR PRESSURE RELIEF JOINTS						
REF. NO.	STATION		SIDE	202	305	SPECIAL
				PAVEMENT REMOVED*	9" CONCRETE BASE, A.P.P.	Pressure Relief Joint, Type A
	FROM	TO	SQ. YD.	SQ. YD.	Lin.Ft.	
PRJ-5	74+55	74+55	Rt.	89	89	22
PRJ-6	85+13	85+13	Lt.	89	89	22
TOTALS				178	178	44

\* 16' x 50' ±

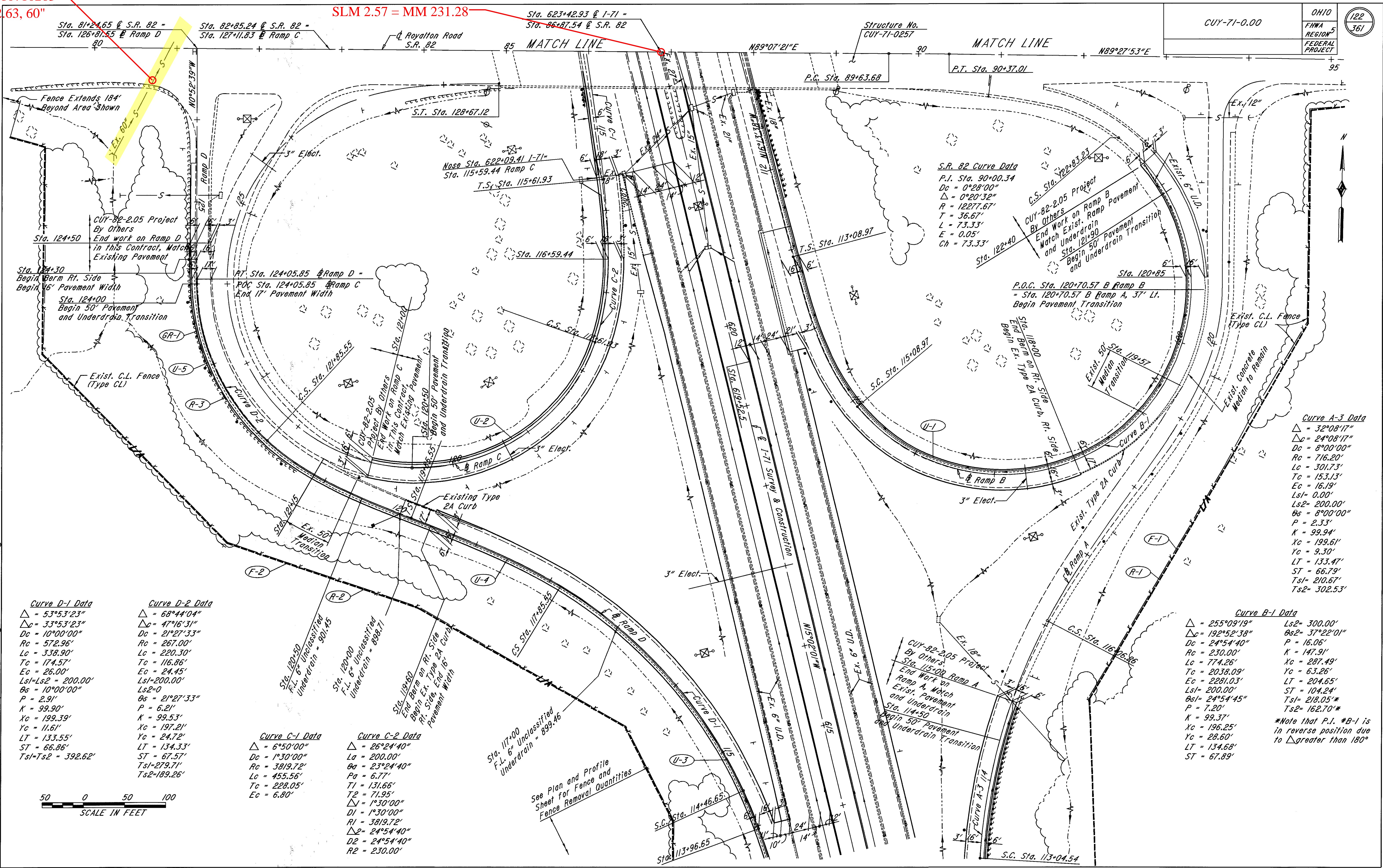
FENCE				
REF. NO.	STATION		SIDE	607
				Fence, Type CLT
	FROM	TO		Lin.Ft.
F-1	778+65	778+65	Lt./Rt.	41
F-2	781+00	781+00	Lt./Rt.	41
TOTALS				82

GUARDRAIL										
REF. NO.	STATION		SIDE	606					203	448
				Guardrail, Type 5	Anchor Assembly, Type E-98	Anchor Assembly, Type T	Bridge Terminal Assembly, Type 1	Bridge Terminal Assembly, Type 2	Linear Grading, As Per Plan	3" Asphalt Concrete Intermed Course, Type 1, PG 64-22
	FROM	TO		Lin.Ft.	Each	Each	Each	Each	Lin. Ft.	Cu. Yd.
GR-1	777+00	777+15	Lt.	15				1		1.00
GR-2	779+90.54	780+95	Lt.	56.25	1		1			4.71
GR-3	777+00	778+55.10	Rt.	155.1			1		155.1	5.74
GR-4	87+00	89+00	Lt.	187.5		1				8.19
GR-5	786+50	789+00	Rt.	200	1					10.04
TOTALS				614	2	1	2	1	155.1	29.7
									1.6 Stas.	

PLOTTED BY: lmincek  
 PLOTTED DATE: 08/05/1998  
 PLOT SUBMITTED: 05-AUG-1998 12:02  
 3070U21.DGN  
 3070U21.DGN



PLOT SUBMITTED: 04-AUG-1998 12:19  
 PLOTTED BY: fkonopka  
 PLOTTED FOR: sberr@pd08459dgn@307int01.dgn  
 307INT01.DGN



**Curve D-1 Data**  
 $\Delta = 53^{\circ}53'23''$   
 $Dc = 33^{\circ}53'23''$   
 $Rc = 10^{\circ}00'00''$   
 $Lc = 572.96'$   
 $Tc = 338.90'$   
 $Ec = 174.57'$   
 $Ls1 = Ls2 = 200.00'$   
 $\theta s = 10^{\circ}00'00''$   
 $P = 2.91'$   
 $K = 99.90'$   
 $Xc = 199.39'$   
 $Yc = 11.61'$   
 $LT = 133.55'$   
 $ST = 66.86'$   
 $Ts1 = Ts2 = 392.62'$

**Curve D-2 Data**  
 $\Delta = 68^{\circ}44'04''$   
 $Dc = 47^{\circ}16'31''$   
 $Rc = 21^{\circ}27'33''$   
 $Lc = 267.00'$   
 $Tc = 220.30'$   
 $Ec = 116.86'$   
 $Ls1 = 200.00'$   
 $Ls2 = 0$   
 $\theta s = 21^{\circ}27'33''$   
 $P = 6.21'$   
 $K = 99.53'$   
 $Xc = 197.21'$   
 $Yc = 24.72'$   
 $LT = 134.33'$   
 $ST = 67.57'$   
 $Ts1 = 279.71'$   
 $Ts2 = 189.26'$

**Curve C-1 Data**  
 $\Delta = 6^{\circ}50'00''$   
 $Dc = 1^{\circ}30'00''$   
 $Rc = 3819.72'$   
 $Lc = 455.56'$   
 $Tc = 228.05'$   
 $Ec = 6.80'$

**Curve C-2 Data**  
 $\Delta = 26^{\circ}24'40''$   
 $Lc = 200.00'$   
 $\theta s = 23^{\circ}24'40''$   
 $Pa = 6.77'$   
 $T1 = 131.66'$   
 $T2 = 71.95'$   
 $\Delta 1 = 1^{\circ}30'00''$   
 $D1 = 1^{\circ}30'00''$   
 $R1 = 3819.72'$   
 $\Delta 2 = 24^{\circ}54'40''$   
 $D2 = 24^{\circ}54'40''$   
 $R2 = 230.00'$

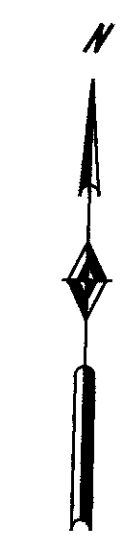
**S.R. 82 Curve Data**  
 $P.I. Sta. 90+00.34$   
 $Dc = 0^{\circ}28'00''$   
 $\Delta = 0^{\circ}20'32''$   
 $R = 12277.67'$   
 $T = 36.67'$   
 $L = 73.33'$   
 $E = 0.05'$   
 $Ch = 73.33'$

**Curve A-3 Data**  
 $\Delta = 32^{\circ}08'17''$   
 $Dc = 24^{\circ}08'17''$   
 $Rc = 8^{\circ}00'00''$   
 $Lc = 716.20'$   
 $Tc = 301.73'$   
 $Ec = 153.13'$   
 $Ls1 = 0.00'$   
 $Ls2 = 200.00'$   
 $\theta s = 8^{\circ}00'00''$   
 $P = 2.33'$   
 $K = 99.94'$   
 $Xc = 199.61'$   
 $Yc = 9.30'$   
 $LT = 133.47'$   
 $ST = 66.79'$   
 $Ts1 = 210.67'$   
 $Ts2 = 302.53'$

**Curve B-1 Data**  
 $\Delta = 255^{\circ}09'19''$   
 $Dc = 192^{\circ}52'38''$   
 $Rc = 24^{\circ}54'40''$   
 $Lc = 774.26'$   
 $Tc = 2038.09'$   
 $Ec = 2281.03'$   
 $Ls1 = 200.00'$   
 $\theta s1 = 24^{\circ}54'45''$   
 $P = 7.20'$   
 $K = 99.37'$   
 $Xc = 196.25'$   
 $Yc = 28.60'$   
 $LT = 134.68'$   
 $ST = 67.89'$   
 $Ls2 = 300.00'$   
 $\theta s2 = 37^{\circ}22'01''$   
 $P = 16.06'$   
 $K = 147.91'$   
 $Xc = 287.49'$   
 $Yc = 63.26'$   
 $LT = 204.65'$   
 $ST = 104.24'$   
 $Ts1 = 218.05'$   
 $Ts2 = 162.70'$   
 \*Note that P.I. #B-1 is in reverse position due to  $\Delta$  greater than  $180^{\circ}$



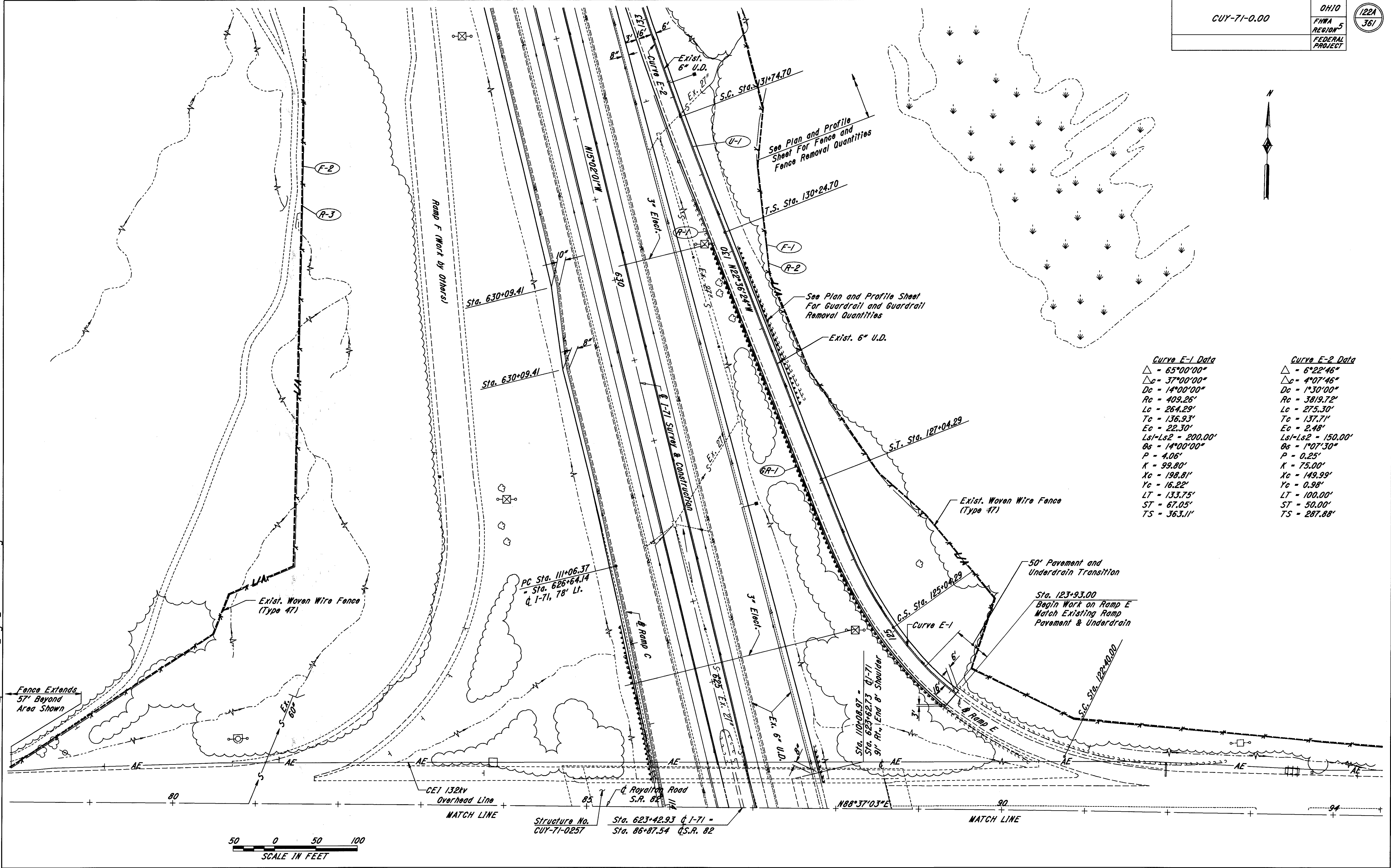




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307INT02.DGN

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Curve E-1 Data	Curve E-2 Data
Δ = 65°00'00"	Δ = 6°22'46"
Δc = 37°00'00"	Δc = 4°07'46"
Dc = 14°00'00"	Dc = 1°30'00"
Rc = 409.26'	Rc = 3819.72'
Lc = 264.29'	Lc = 275.30'
Tc = 136.93'	Tc = 137.71'
Ec = 22.30'	Ec = 2.48'
Ls1-Ls2 = 200.00'	Ls1-Ls2 = 150.00'
Bs = 14°00'00"	Bs = 1°07'30"
P = 4.06'	P = 0.25'
K = 99.80'	K = 75.00'
Xc = 198.81'	Xc = 149.99'
Yc = 16.22'	Yc = 0.98'
LT = 133.75'	LT = 100.00'
ST = 67.05'	ST = 50.00'
TS = 363.11'	TS = 287.88'



Structure No. CUY-71-0257  
 Sta. 623+42.93 Q.I-71 -  
 Sta. 86+87.54 Q.S.R. 82

S.R. 82 INTERCHANGE PLAN - RAMPS E & F



S.R. 82 INTERCHANGE QUANTITIES - RAMPS A, B, C, & D

REF. NO.	STATION		SIDE	202	
	FROM	TO		Guardrail Removed Lin. Ft.	Fence Removed Lin. Ft.
R-1	115+09	122+90	Rt.		844
R-2	115+35	126+17	Lt.		1395
R-3	121+36	124+50	Lt.	325	
TOTALS				325	2239

REF. NO.	STATION		SIDE	606	
	FROM	TO		Guardrail, Type 5 Lin. Ft.	Anchor Assembly, Type T Each
GR-1	122+87.5	124+50	Lt.	150	1
TOTALS				150	1

REF. NO.	STATION		SIDE	607	
	FROM	TO		Fence, Type CLT Lin. Ft.	
F-1	115+09	122+90	Rt.	844	
F-2	115+35	126+17	Lt.	1395	
TOTALS					2239

\*\* 707.41 Non-Perforated ASTM D3034, SDR 35, 707.42 or 707.33

REF. NO.	STATION		SIDE	605			604	
	FROM	TO		6" Conduit, Type F ** Lin. Ft.	6" Shallow Pipe Underdrain, 30" Depth with Fabric Wrap Lin. Ft.	6" Unclassified Pipe Underdrain with Fabric Wrap Lin. Ft.		Precast Reinforced Concrete Outlet Each
U-1	110+53	122+40			870			
U-2	115+64	121+00		10	513	16		
U-3	110+00	117+00			700			
U-4	117+00	120+00		10		328	1	
U-5	120+00	124+50			400	50		
TOTALS				20	2483	394	1	

S.R. 82 INTERCHANGE QUANTITIES - RAMPS E & F

REF. NO.	STATION		SIDE	202	
	FROM	TO		Guardrail Removed Lin. Ft.	Fence Removed Lin. Ft.
R-1	123+93	130+77	Lt.	691	
R-2	124+00	130+92	Rt.		712
R-3	77+48 S.R. 82	635+00 I-71	Lt.		1255
TOTALS				691	1967

REF. NO.	STATION		SIDE	606		448
	FROM	TO		Guardrail, Type 5 Lin. Ft.	Anchor Assembly, Type T Each	
GR-1	123+93	130+10	Lt.	612.5	1	23.92
TOTALS				612.5	1	23.9

\*\* 707.41 Non-Perforated ASTM D3034, SDR 35, 707.42 or 707.33

REF. NO.	STATION		SIDE	607	
	FROM	TO		Fence, Type CLT Lin. Ft.	
F-1	124+00	130+92	Rt.	712	
F-2	77+48 S.R. 82	635+00 I-71	Lt.	1255	
TOTALS					1967

REF. NO.	STATION		SIDE	605			604	
	FROM	TO		6" Conduit, Type F ** Lin. Ft.	6" Shallow Pipe Underdrain, 30" Depth with Fabric Wrap Lin. Ft.	6" Unclassified Pipe Underdrain with Fabric Wrap Lin. Ft.		Precast Reinforced Concrete Outlet Each
U-1	123+93.5	132+17.5		25	824	20	1	
TOTALS				25	824	20	1	

S.R. 82 INTERCHANGE QUANTITIES - RAMPS A, B, C, D, E, & F

PLOTTED BY: fkonopka  
 PLOTTED FROM: i:\User\sefor\ber\pi\d08459\dgn\qusr82.dgn QUSR82.DGN  
 PLOT SUBMITTED: 04-AUG-1998 12:21



PEARL ROAD (SR 42)  
SLM 5.52 = MM 234.23

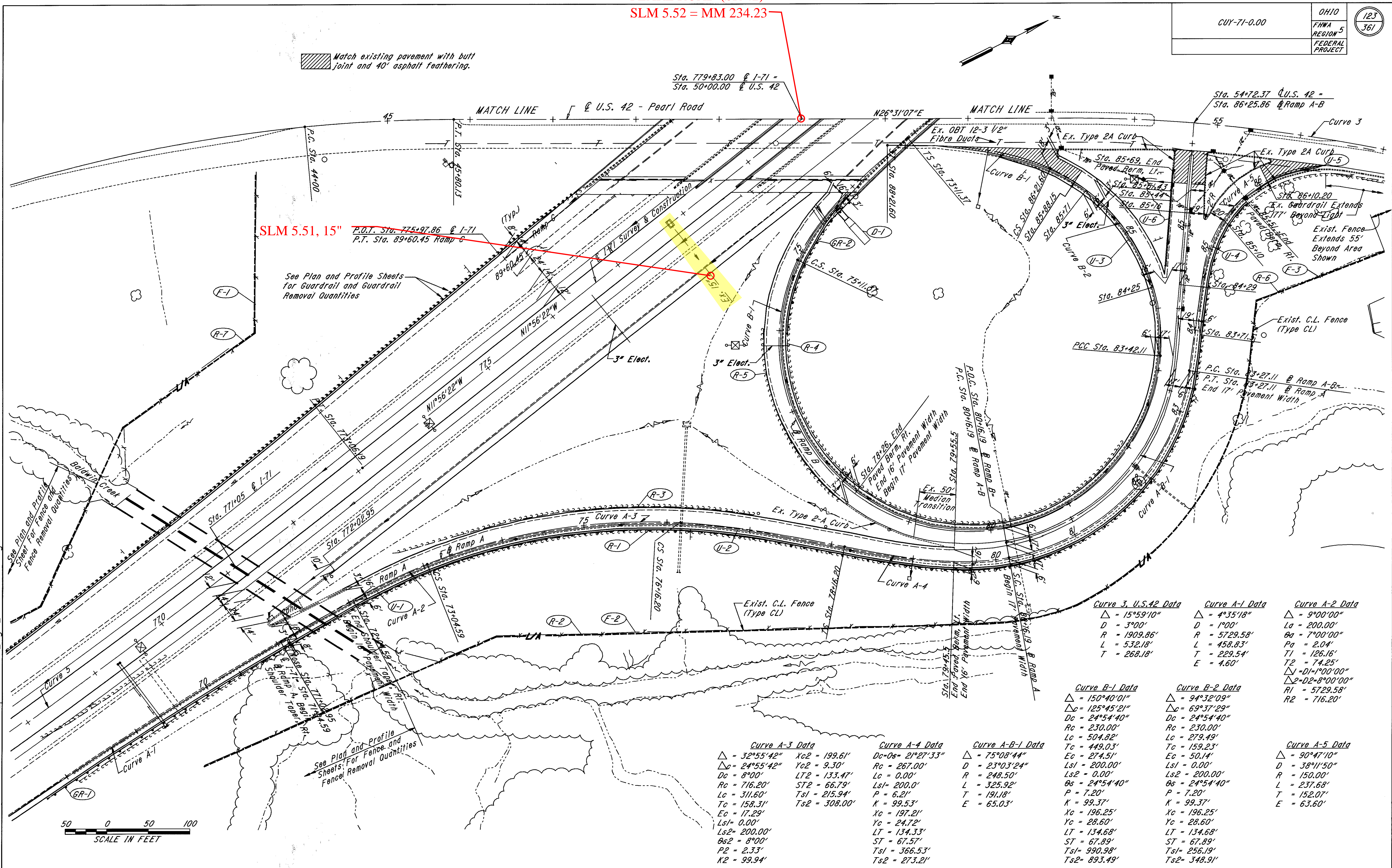
OHIO	123
FHWA REGION 5	361
FEDERAL PROJECT	

Match existing pavement with butt joint and 40' asphalt feathering.

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307INT05.DGN

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PLOTTED: 04-AUG-1998 12:22



SLM 5.51, 15"  
P.O.T. Sta. 775+97.86 @ I-71  
P.T. Sta. 89+60.45 Ramp C

See Plan and Profile Sheets for Guardrail and Guardrail Removal Quantities

See Plan and Profile Sheets for Fence and Fence Removal Quantities



<p><b>Curve A-3 Data</b></p> <p>Δ = 32°55'42" Dc = 24°55'42" Dc = 8°00' Rc = 716.20' Lc = 311.60' Tc = 158.31' Eo = 17.29' Ls1 = 0.00' Ls2 = 200.00' Bs2 = 8°00' P2 = 2.33' K2 = 99.94'</p>	<p><b>Curve A-4 Data</b></p> <p>Dc-0s = 21°27'33" Rc = 267.00' Lc = 0.00' Ls1 = 200.0' K = 99.53' Xc = 197.21' Yc = 24.72' LT = 134.33' ST = 67.57' Tsl = 366.53' Ts2 = 273.21'</p>	<p><b>Curve A-B-1 Data</b></p> <p>Δ = 75°08'44" D = 23°03'24" R = 248.50' L = 325.92' T = 191.18' E = 65.03'</p>	<p><b>Curve A-1 Data</b></p> <p>Δ = 9°00'00" Lo = 200.00' Bs = 7°00'00" Pa = 2.04' Tl = 126.16' T2 = 74.25' Δ1 = 1°00'00" Δ2 = 2°-8'00"00" R1 = 5729.58' R2 = 716.20'</p>	<p><b>Curve A-2 Data</b></p> <p>Δ = 15°59'10" D = 3°00' R = 1909.86' L = 532.18' T = 268.18'</p>	<p><b>Curve A-5 Data</b></p> <p>Δ = 90°47'10" D = 150.00' L = 237.68' T = 152.07' E = 63.60'</p>	<p><b>Curve B-1 Data</b></p> <p>Δ = 150°40'01" Δc = 125°45'21" Dc = 24°54'40" Rc = 230.00' Lc = 504.82' Tc = 449.03' Eo = 27.451' Ls1 = 200.00' Ls2 = 0.00' Bs = 24°54'40" K = 99.37' Xc = 196.25' Yc = 28.60' LT = 134.68' ST = 67.89' Tsl = 990.98' Ts2 = 893.49'</p>	<p><b>Curve B-2 Data</b></p> <p>Δ = 94°32'09" Δc = 69°37'29" Dc = 24°54'40" Rc = 230.00' Lc = 279.49' Tc = 159.23' Eo = 50.14' Ls1 = 0.00' Ls2 = 200.00' Bs = 24°54'40" K = 99.37' Xc = 196.25' Yc = 28.60' LT = 134.68' ST = 67.89' Tsl = 256.19' Ts2 = 348.91'</p>	<p><b>Curve B-3 Data</b></p> <p>Δ = 15°59'10" D = 3°00' R = 1909.86' L = 532.18' T = 268.18'</p>	<p><b>Curve B-4 Data</b></p> <p>Δ = 4°35'18" D = 1°00' R = 5729.58' L = 458.83' T = 229.54' E = 4.60'</p>	<p><b>Curve B-5 Data</b></p> <p>Δ = 9°00'00" Lo = 200.00' Bs = 7°00'00" Pa = 2.04' Tl = 126.16' T2 = 74.25' Δ1 = 1°00'00" Δ2 = 2°-8'00"00" R1 = 5729.58' R2 = 716.20'</p>
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U.S. 42 INTERCHANGE PLAN - RAMPS A & B



**Curve C-D-1 Data**  
 $\Delta = 80^{\circ}23'33''$   
 $D = 23^{\circ}03'24''$   
 $R = 248.50'$   
 $L = 348.67'$   
 $T = 209.97'$   
 $E = 76.83'$

**Curve C-1 Data**  
 $\Delta = 89^{\circ}11'33''$   
 $\Delta_c = 64^{\circ}16'53''$   
 $D_c = 24^{\circ}54'40''$   
 $R_c = 230.00'$   
 $L_c = 258.04'$   
 $T_c = 144.51'$   
 $E_c = 41.63'$   
 $Ls1 = 200.00'$   
 $Ls2 = 0.00'$   
 $\theta_s = 24.91'$   
 $P = 7.20'$   
 $K = 99.37'$   
 $X_c = 196.25'$   
 $Y_c = 28.60'$   
 $LT = 134.68'$   
 $ST = 67.89'$   
 $Ts1 = 326.05'$   
 $Ts2 = 233.98'$

**Curve C-2 Data**  
 $\Delta = 150^{\circ}45'48''$   
 $\Delta_c = 125^{\circ}51'08''$   
 $D_c = 24^{\circ}54'40''$   
 $R_c = 230.00'$   
 $L_c = 505.20'$   
 $T_c = 449.96'$   
 $E_c = 275.34'$   
 $Ls1 = 0.00'$   
 $Ls2 = 200.00'$   
 $\theta_s = 24.91'$   
 $P = 7.20'$   
 $K = 99.37'$   
 $X_c = 196.25'$   
 $Y_c = 28.60'$   
 $LT = 134.68'$   
 $ST = 67.89'$   
 $Ts1 = 896.56'$   
 $Ts2 = 994.06'$

**Curve D-2 Data**  
 $\Delta = 21^{\circ}27'33''$   
 $R_c = 267.00'$   
 $L_c = 0.00'$   
 $Ls1 = 200.00'$   
 $P = 6.21'$   
 $K = 99.53'$   
 $X_c = 197.21'$   
 $Y_c = 24.72'$   
 $LT = 134.33'$   
 $ST = 67.57'$   
 $Ts1 = 366.53'$   
 $Ts2 = 273.21'$

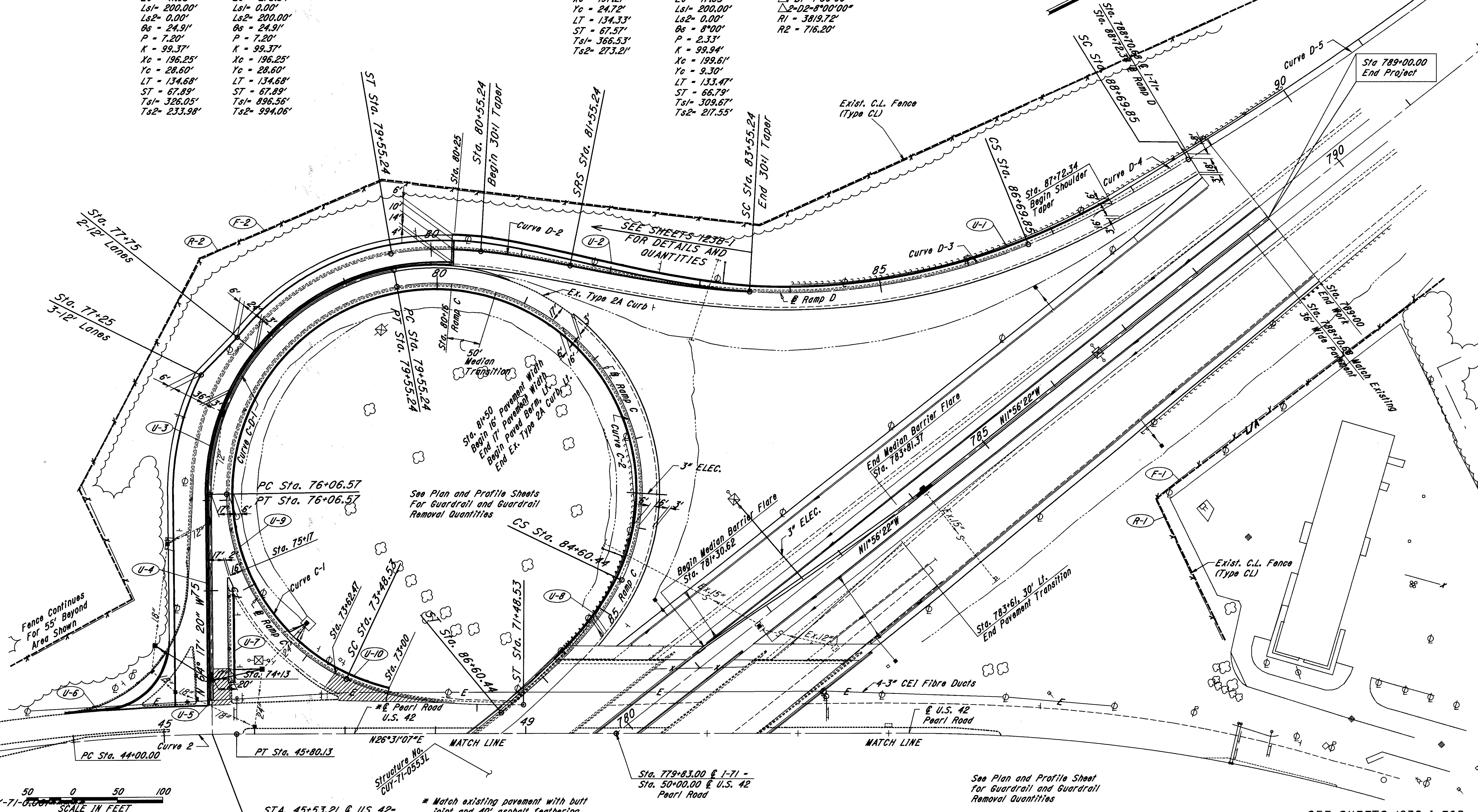
**Curve D-3 Data**  
 $\Delta = 33^{\circ}10'08''$   
 $\Delta_c = 25^{\circ}10'08''$   
 $D_c = 8^{\circ}00'$   
 $R_c = 716.20'$   
 $L_c = 314.61'$   
 $T_c = 159.88'$   
 $E_c = 17.63'$   
 $Ls1 = 200.00'$   
 $Ls2 = 0.00'$   
 $\theta_s = 8^{\circ}00'$   
 $P = 2.33'$   
 $K = 99.94'$   
 $X_c = 199.61'$   
 $Y_c = 9.30'$   
 $LT = 133.47'$   
 $ST = 66.79'$   
 $Ts1 = 309.67'$   
 $Ts2 = 217.55'$

**Curve D-4 Data**  
 $\Delta = 9^{\circ}30'00''$   
 $L_s = 200.00'$   
 $\theta_a = 6^{\circ}30'00''$   
 $T1 = 123.06'$   
 $T2 = 77.40'$   
 $L1-D1 = 1^{\circ}30'00''$   
 $L2-D2 = 8^{\circ}00'00''$   
 $R1 = 3819.72'$   
 $R2 = 716.20'$

**Curve D-5 Data**  
 $\Delta = 6^{\circ}50'00''$   
 $D = 1^{\circ}30'00''$   
 $R = 3819.72'$   
 $L = 455.56'$   
 $T = 228.05'$   
 $E = 6.80'$

**Curve 2, U.S. 42 Data**  
 $\Delta = 20^{\circ}05'46''$   
 $D = 3^{\circ}00'$   
 $R = 1909.86'$   
 $L = 669.87'$   
 $T = 338.41'$   
 $E = 29.75'$

PLOTTED BY: fkonopka  
 PLOTTED: 11/11/04  
 PLOT SUBMITTED: 04-AUG-1998 12:23  
 08459.gpb.dgn  
 08459.gpb.dgn  
 08459.gpb.dgn



STA. 45+53.21 @ US 42  
 STA. 73+40.66 @ RAMP C-D

\* Match existing pavement with butt joint and 40' asphalt feathering.

Sta. 779+83.00 @ I-71 - Sta. 50+00.00 @ U.S. 42 Pearl Road

See Plan and Profile Sheet for Guardrail and Guardrail Removal Quantities

SEE SHEETS 123B-1 FOR RAMP D WIDENING DETAILS AND DRAINAGE REF. BALLOONS.

US 42 INTERCHANGE PLAN - RAMPS C & D



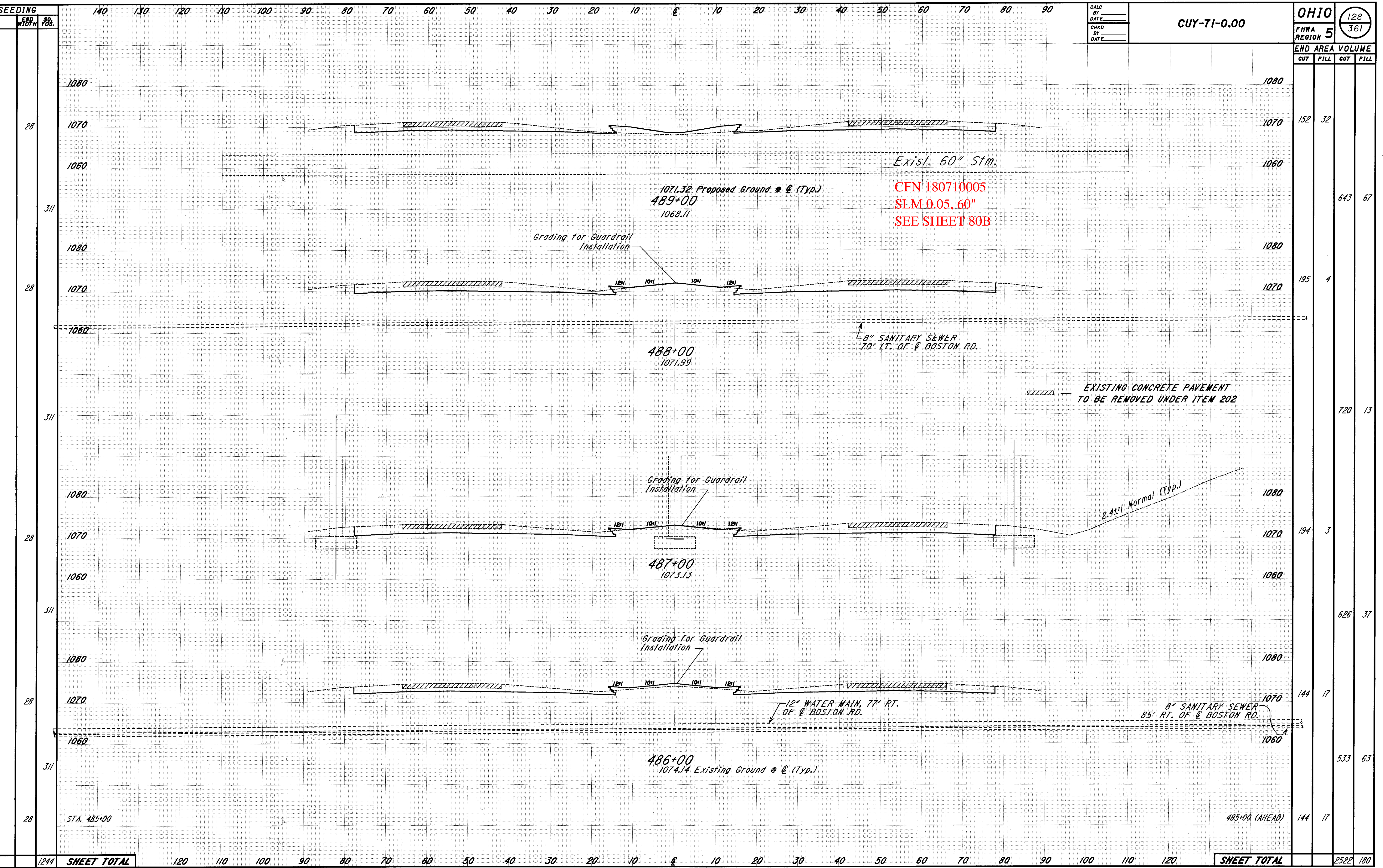






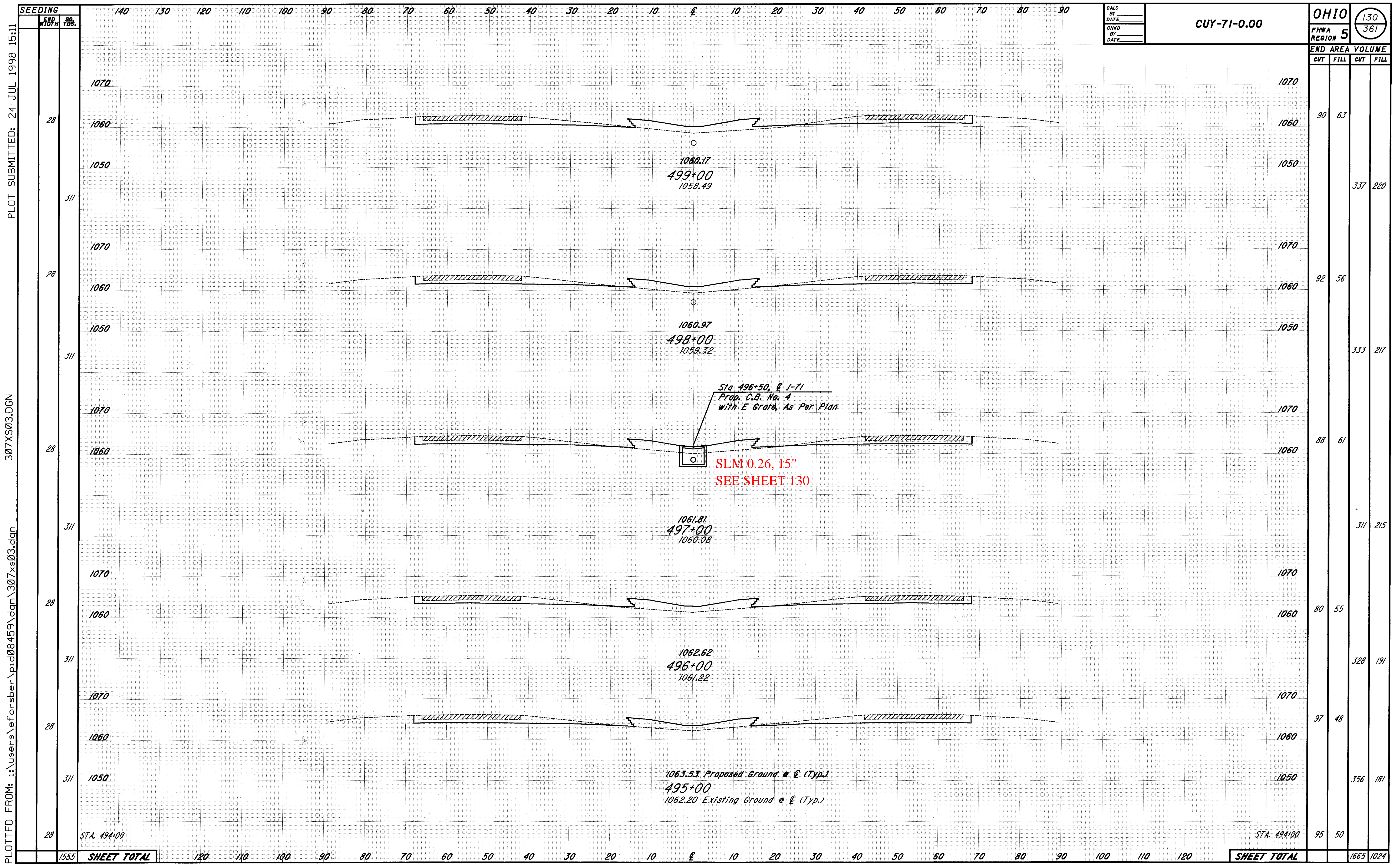


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 307XS01.DGN



CROSS SECTIONS STA. 486+00 TO STA. 489+00



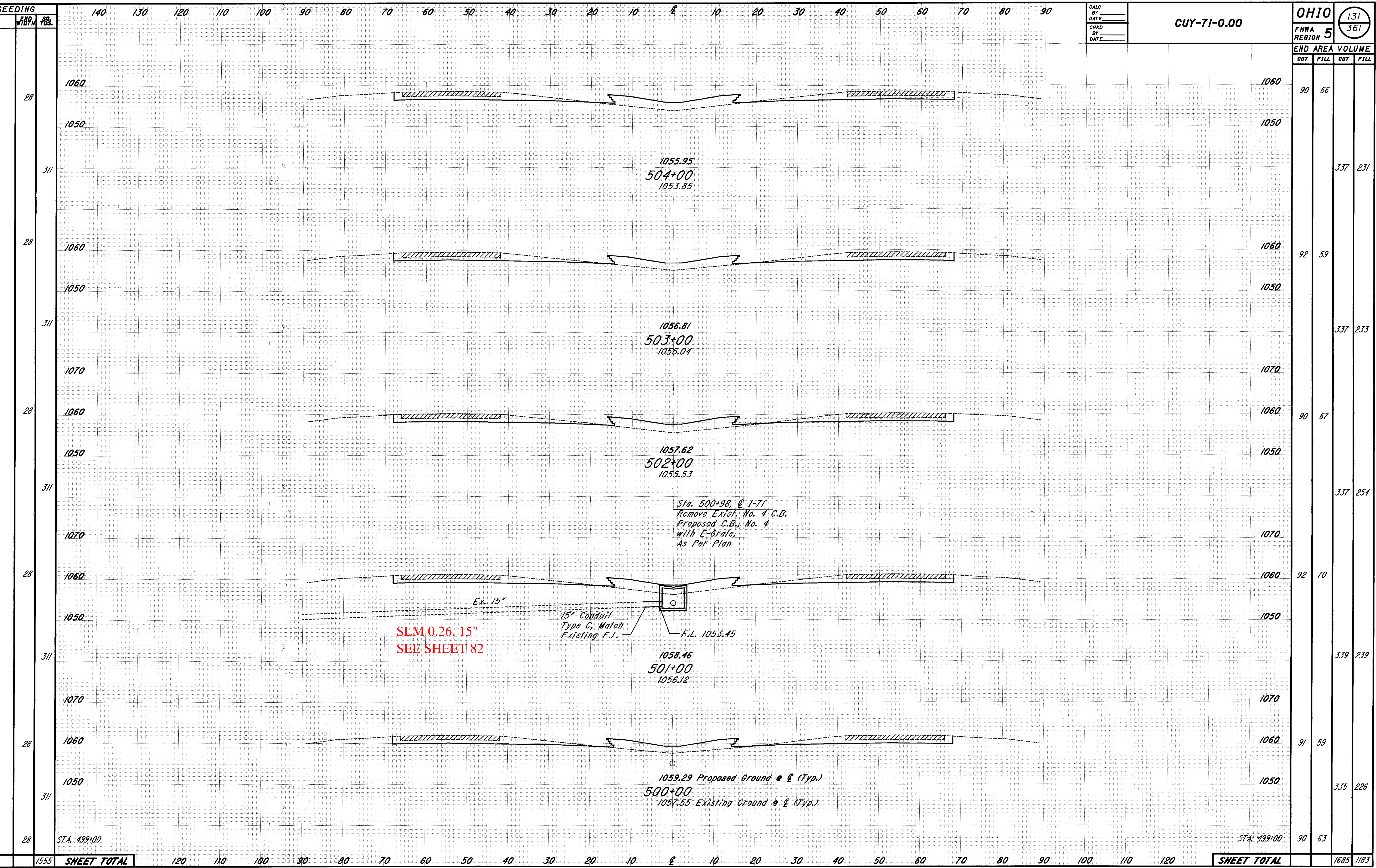


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 PLOT SUBMITTED: 24-JUL-1998 15:11

CROSS SECTIONS STA. 495+00 TO STA. 499+00



PLOTTED FROM: I:\users\eforsber\p108459\dgn\307xs04.dgn  
 PLOT SUBMITTED: 24-JUL-1998 15:11  
 307XS04.DGN



CROSS SECTIONS STA. 500+00 TO STA. 504+00

OHIO  
FHWA REGION 5

CUY-71-0.00

END AREA VOLUME  
CUT FILL CUT FILL

131  
361

CALC BY \_\_\_\_\_  
DATE \_\_\_\_\_  
CHKD BY \_\_\_\_\_  
DATE \_\_\_\_\_

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120

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1055.95  
504+00  
1053.85

1056.81  
503+00  
1055.04

1057.62  
502+00  
1055.53

Sta. 500+98, @ 1-71  
Remove Exist. No. 4 C.B.  
Proposed C.B., No. 4  
with E-Grate,  
As Per Plan

SLM 0.26, 15"  
SEE SHEET 82

15" Conduit  
Type C, Match  
Existing F.L.

1058.46  
501+00  
1056.12

1059.29 Proposed Ground @ (Typ.)  
500+00  
1057.55 Existing Ground @ (Typ.)

F.L. 1053.45

Ex. 15"

STA. 499+00

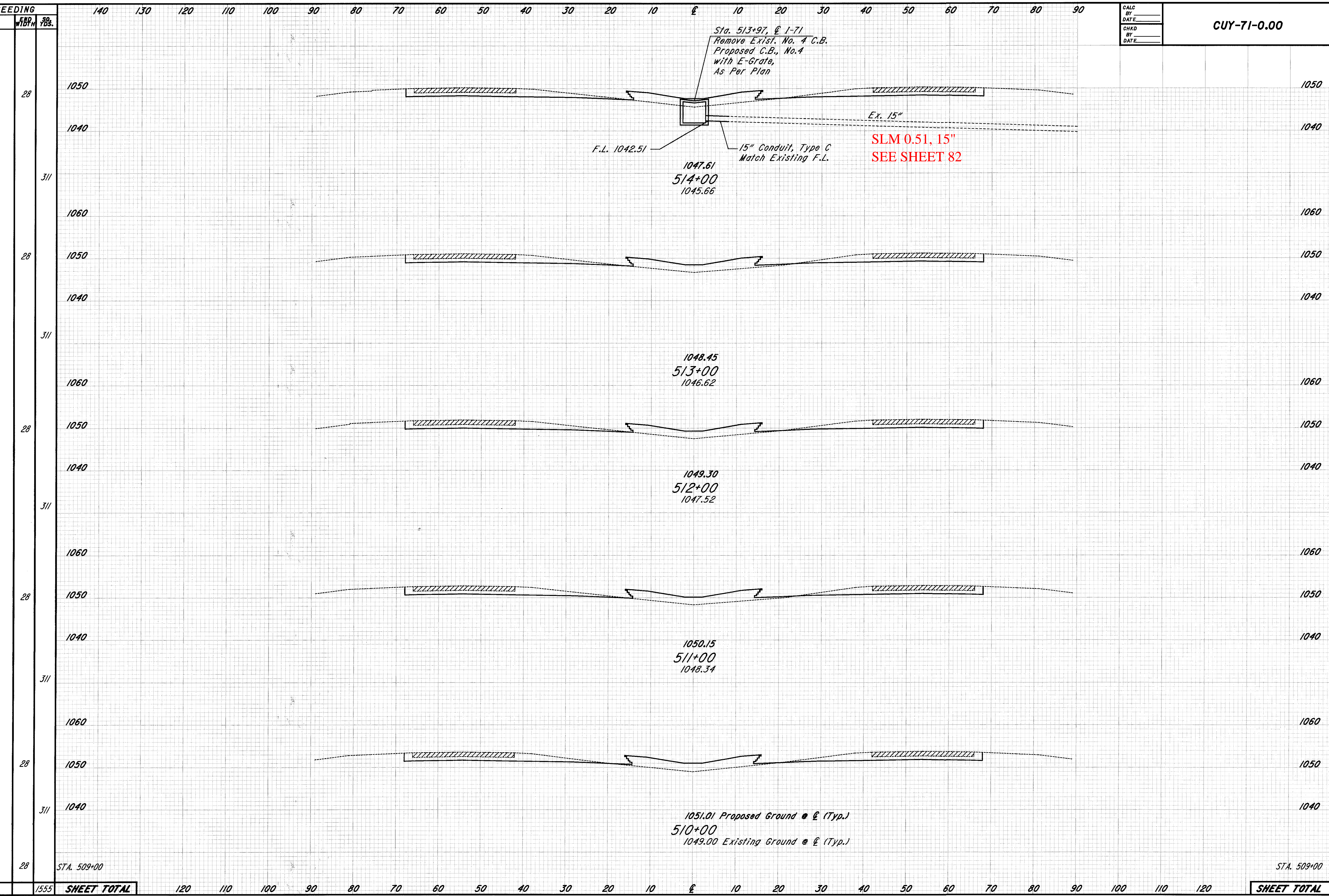
STA. 499+00

1555 SHEET TOTAL

SHEET TOTAL



PLOTTED FROM: i:\users\eforsber\pic08459\dgn\307xs06.dgn  
 PLOT SUBMITTED: 24-JUL-1998 15:11  
 307XS06.DGN



CALC BY: _____ DATE: _____ CHKD BY: _____ DATE: _____	<b>CUY-71-0.00</b>
----------------------------------------------------------------	--------------------

<b>OHIO</b> FHWA REGION <b>5</b>	133 361
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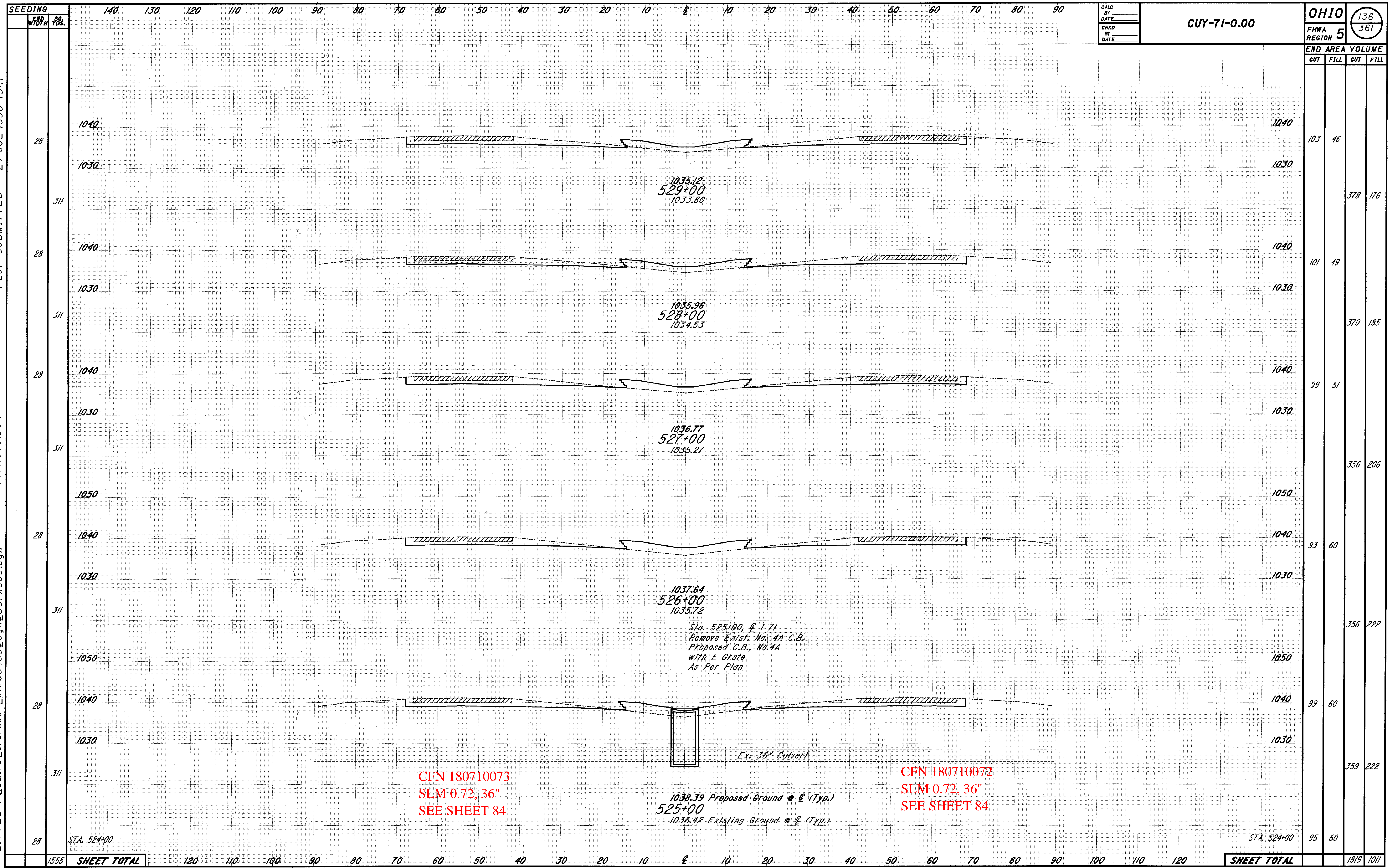
END AREA		VOLUME	
CUT	FILL	CUT	FILL
96	62		
		350	230
93	62		
		352	224
97	59		
		352	226
93	63		
		344	239
93	66		
		324	237
82	62		
		1722	1156

1555 SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS STA. 510+00 TO STA. 514+00

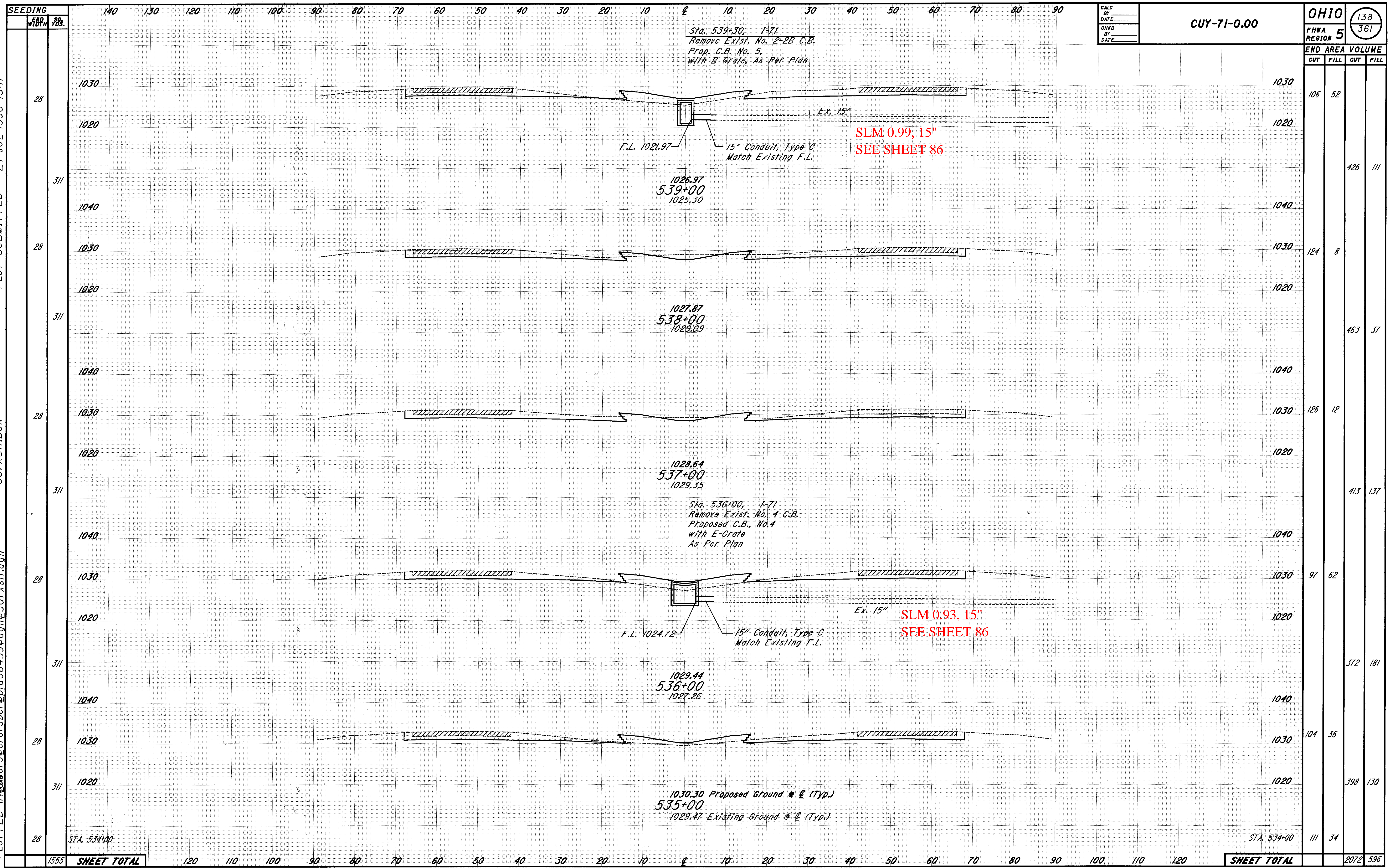




PLOTTED FROM: s:\ref or sber\pid08459\dgn\307xs09.dgn  
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CROSS SECTIONS STA. 525+00 TO STA. 529+00





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SEEDING	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90
WB																								
YBS																								
CUY-71-0.00																								
OHIO																								
FHWA REGION																								
138																								
361																								
END																								
CUT																								
FILL																								
CUT																								
FILL																								
1555																								
SHEET TOTAL		120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100
120																								
SHEET TOTAL																								
2072																								
596																								

CROSS SECTIONS STA. 535+00 TO STA. 539+00



SEEDING

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DATE  
CHKD BY  
DATE

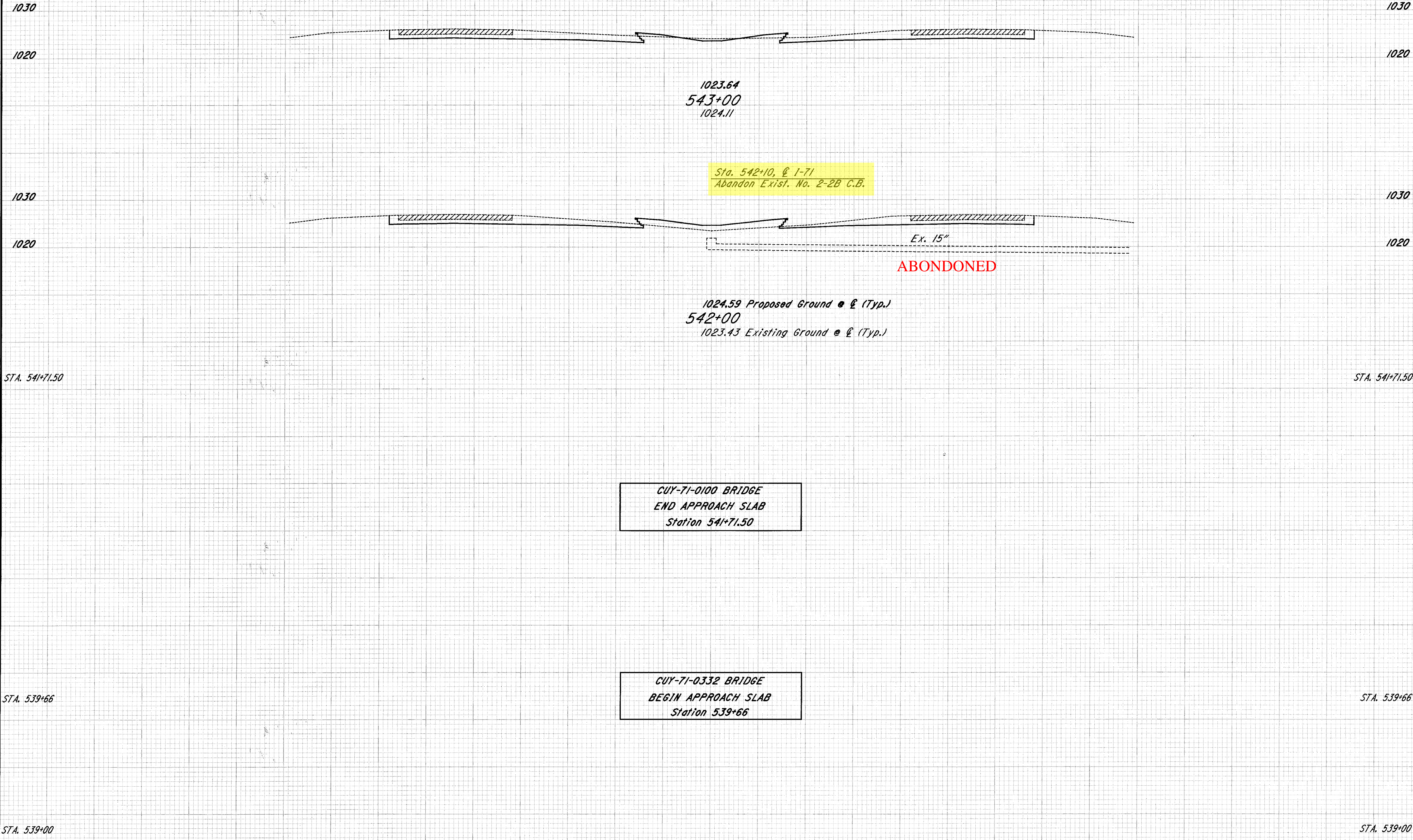
CUY-71-0.00

OHIO  
FHWA REGION 5  
139  
361

END AREA VOLUME  
CUT FILL CUT FILL

PLOTTED FROM: i:\users\eforsber\pic08459\dgn\307xs12.dgn  
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END AREA	VOLUME
CUT	FILL
133	9
457	78
114	33
120	35
114	33
106	52
259	127
106	52

605 SHEET TOTAL

SHEET TOTAL 836 240

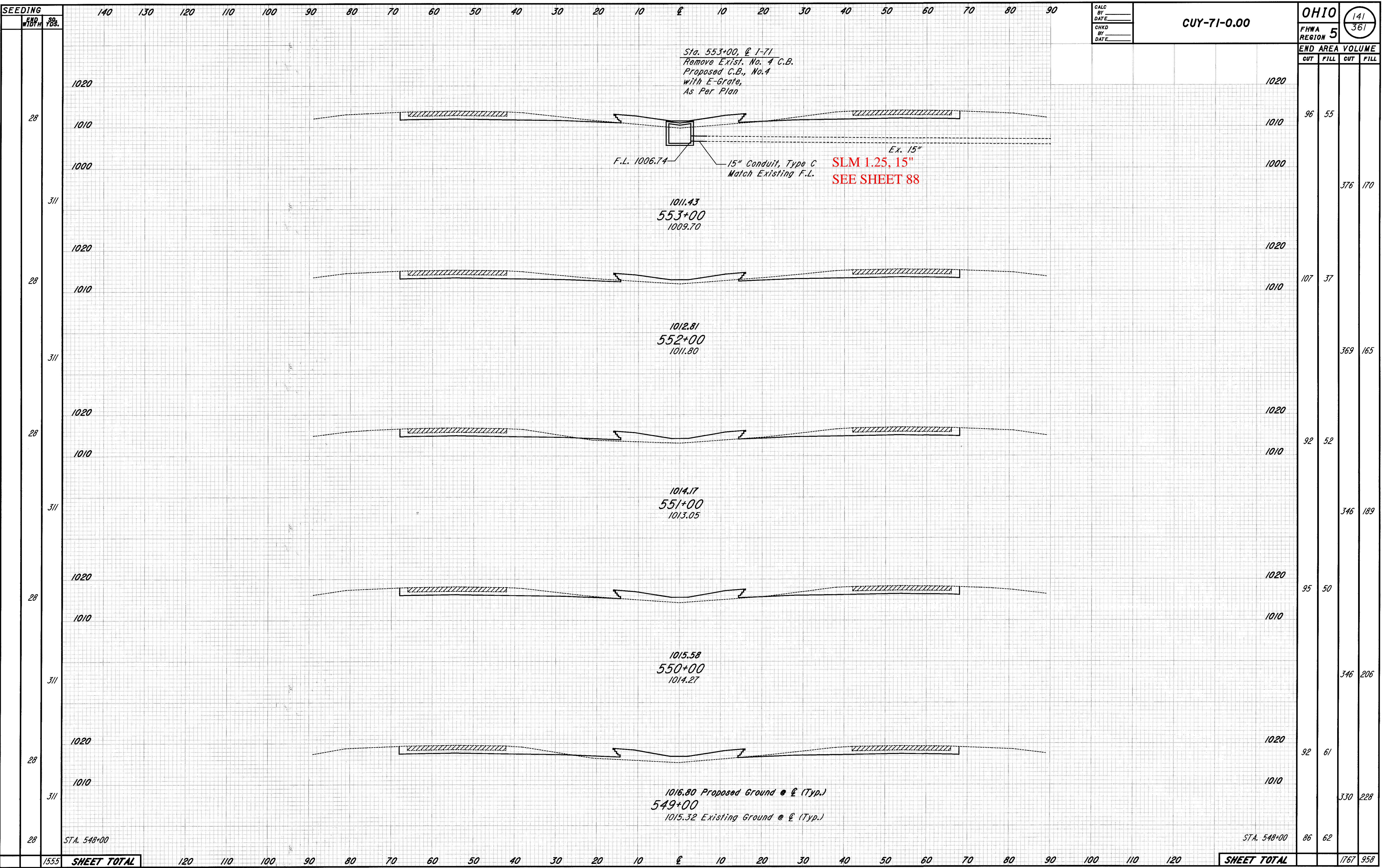
CROSS SECTIONS STA. 540+00 TO STA. 543+00







PLOTTED FROM: I:\users\eforsber\p\d08459\dgn\307xsl14.dgn  
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 PLOT SUBMITTED: 24-JUL-1998 15:11



SEEDING	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	CALC BY	OHIO	141
END AREA																										FHWA REGION 5	361
VOLUME																											
CUT																											
FILL																											

1555 SHEET TOTAL

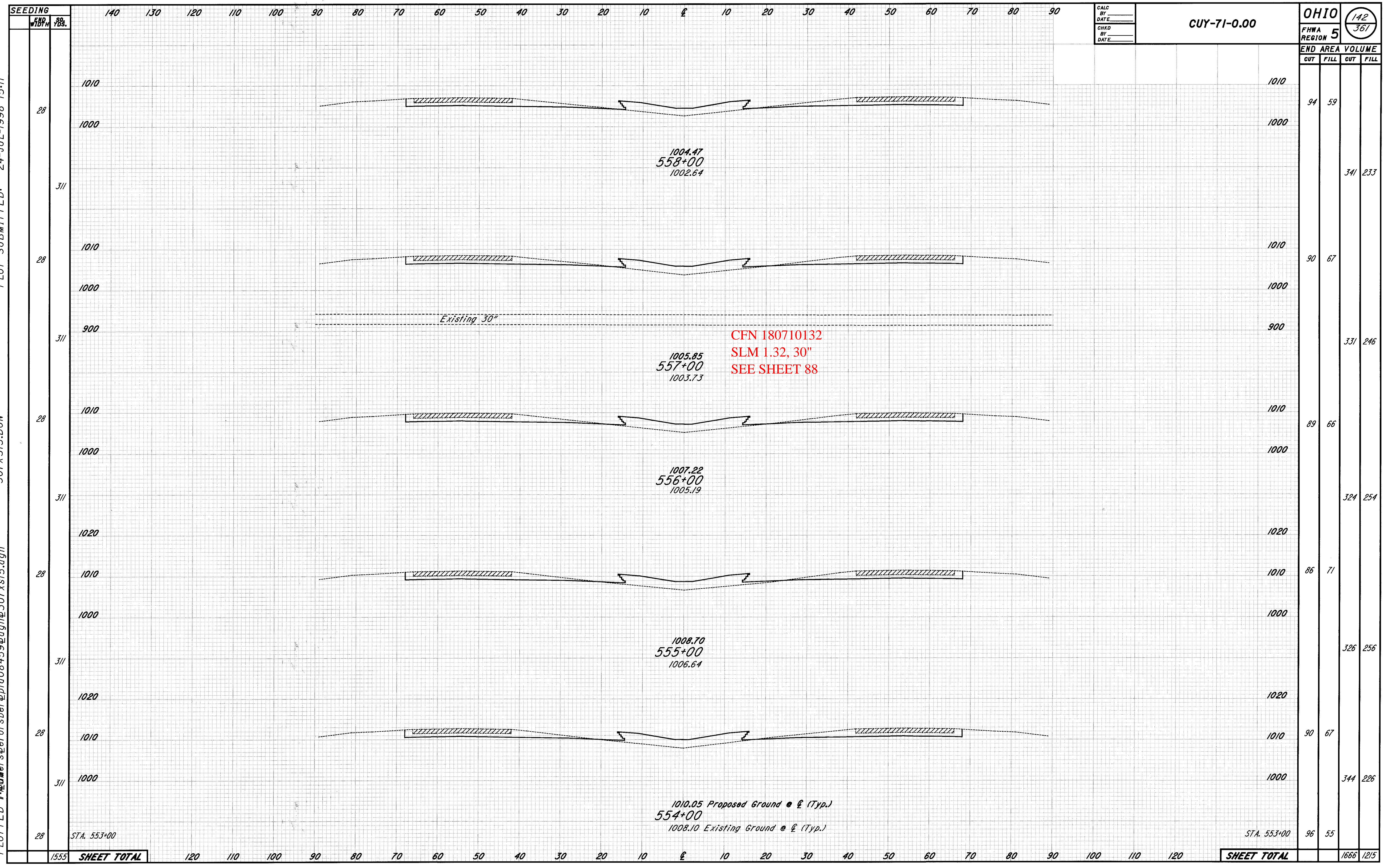
SHEET TOTAL

CROSS SECTIONS STA. 549+00 TO STA. 553+00



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 307X.S15.DGN



STA. 553+00

STA. 553+00

1010.05 Proposed Ground @ 1 (Typ.)  
 554+00  
 1008.10 Existing Ground @ 1 (Typ.)

CFN 180710132  
 SLM 1.32, 30"  
 SEE SHEET 88

1004.47  
 558+00  
 1002.64

1005.85  
 557+00  
 1003.73

1007.22  
 556+00  
 1005.19

1008.70  
 555+00  
 1006.64

Existing 30"

1555 SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS STA. 554+00 TO STA. 558+00

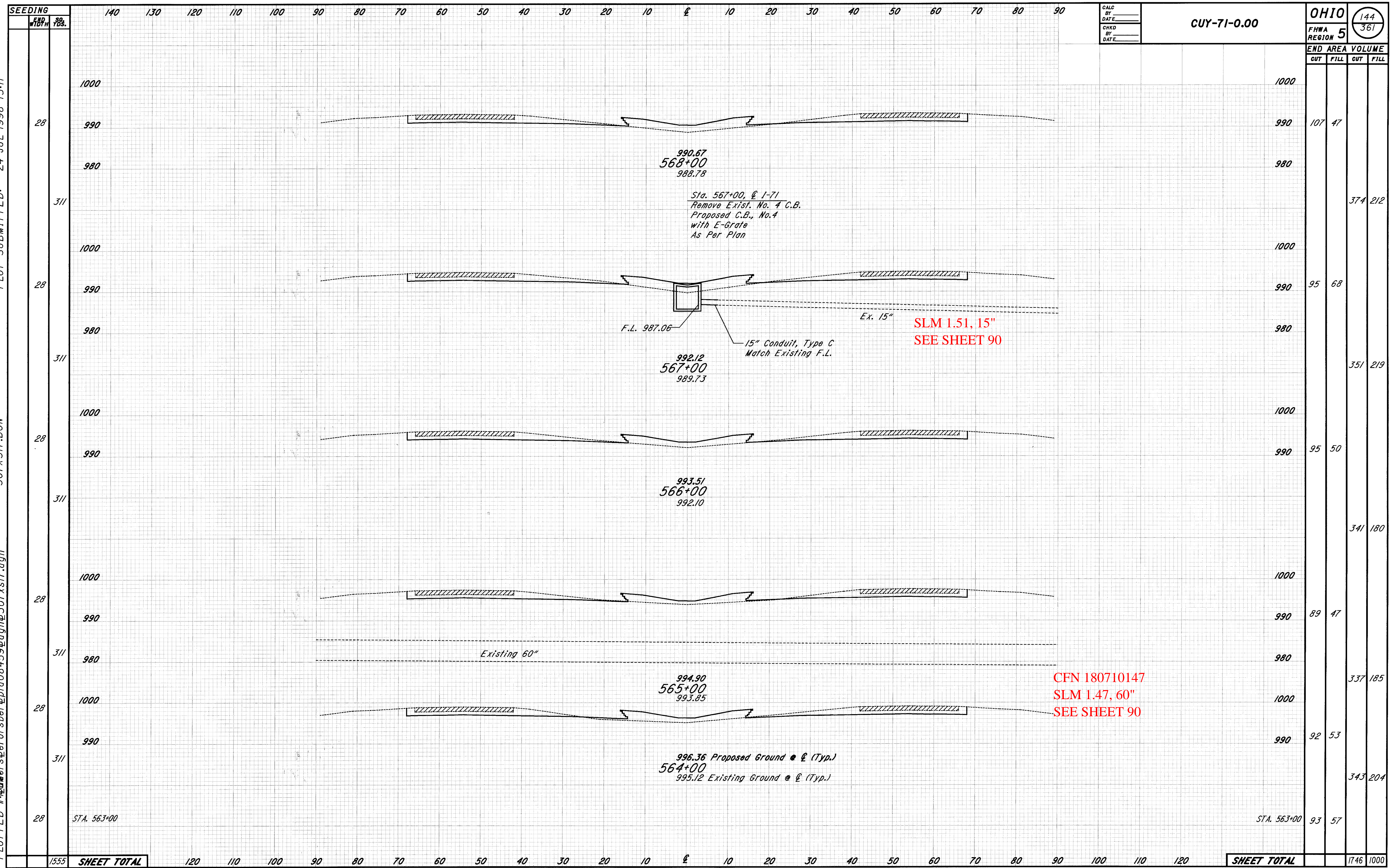
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 DATE: \_\_\_\_\_

CUY-71-0.00

OHIO  
 FHWA REGION 5  
 142  
 361

END AREA		VOLUME	
CUT	FILL	CUT	FILL
94	59	341	233
90	67	331	246
89	66	324	254
86	71	326	256
90	67	344	226
96	55	1666	1215





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CROSS SECTIONS STA. 564+00 TO STA. 568+00









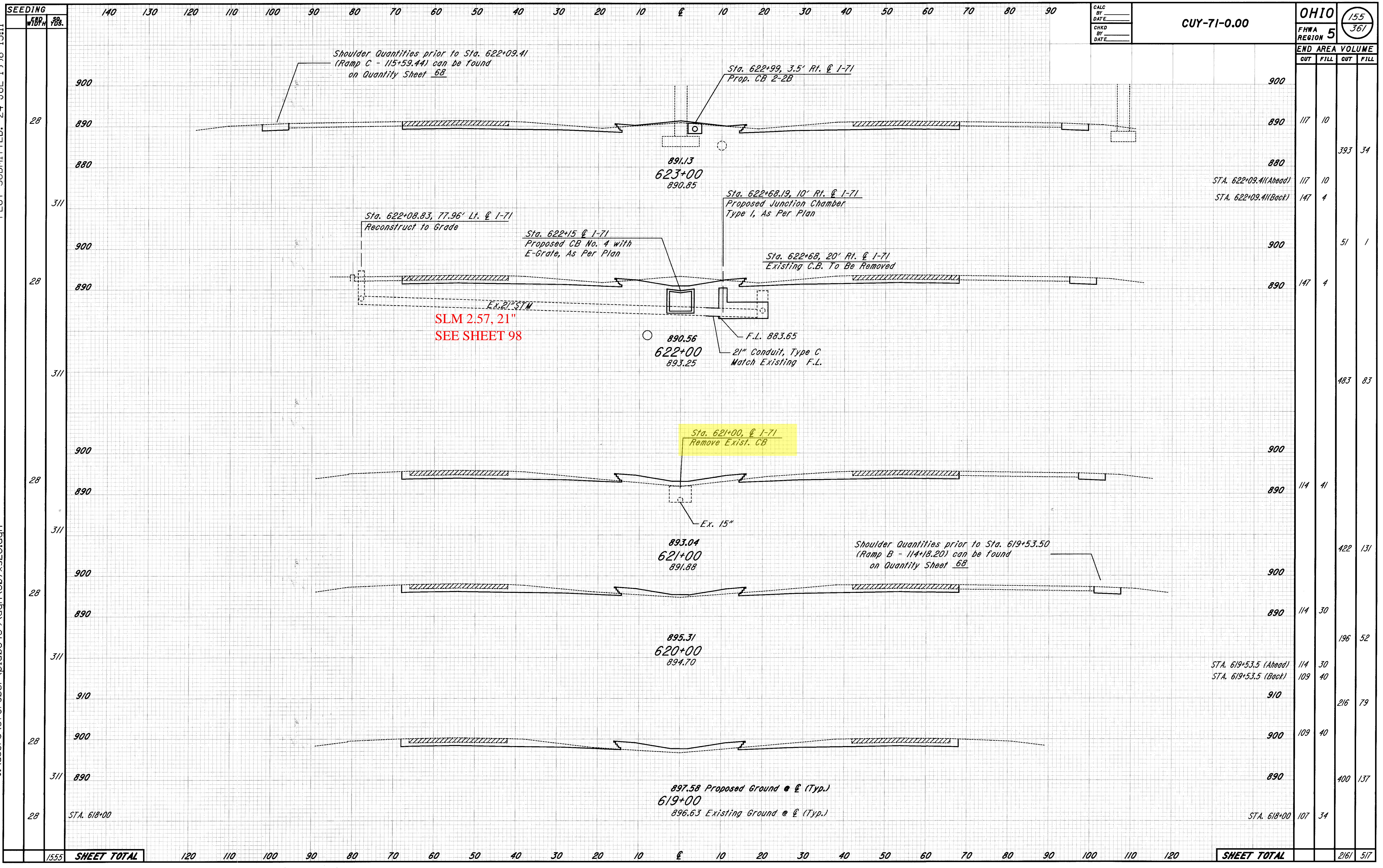












SEEDING  
 END W/TPH YRS.  
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 307XS28.DGN  
 PLOT SUBMITTED: 24-JUL-1998 15:11

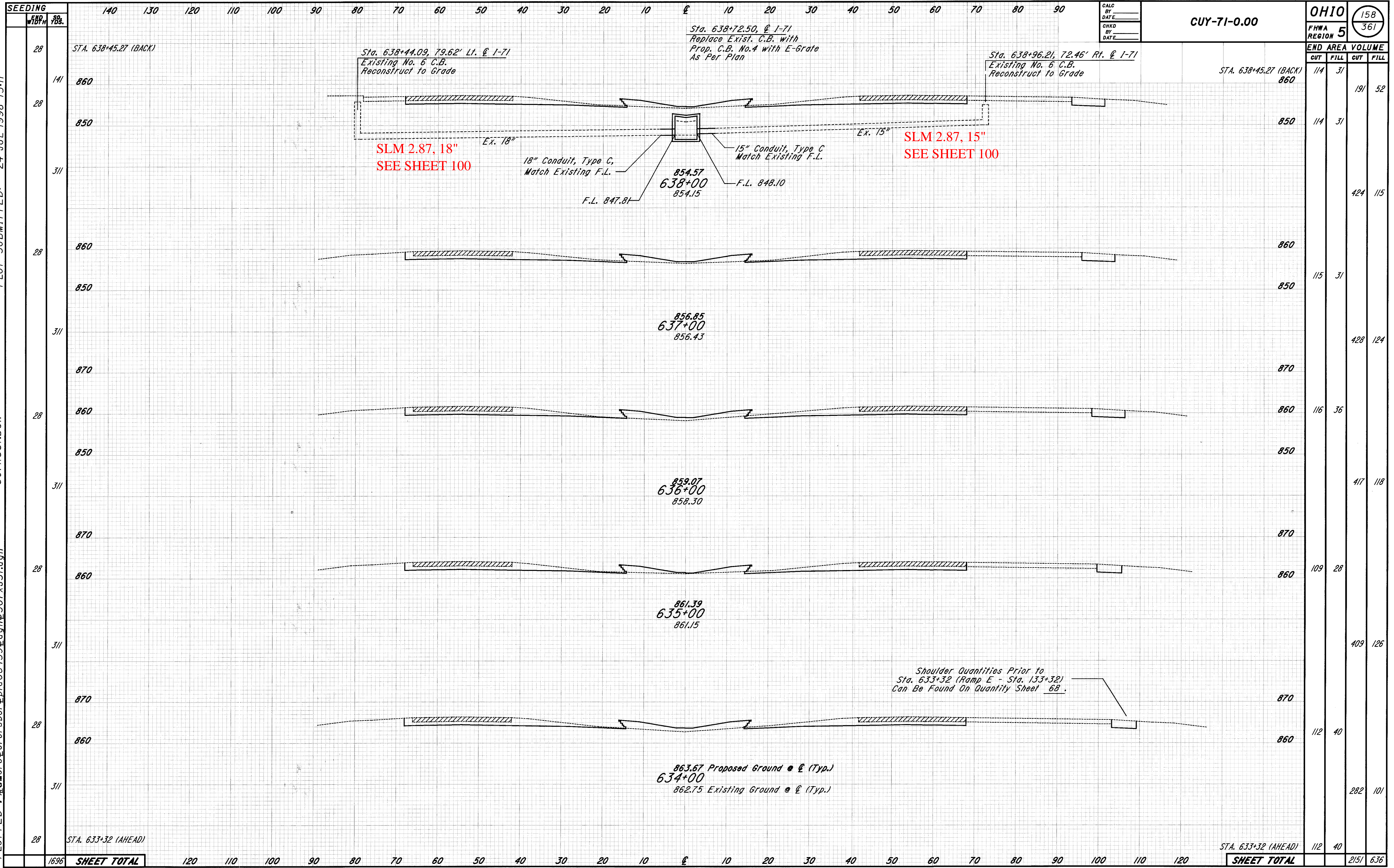
END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
900				
890	117	10		
880			393	34
880	117	10		
890	147	4		
900			51	1
890	147	4		
900			483	83
890	114	41		
900			422	131
890	114	30		
910			196	52
900	109	40		
890	109	40		
900			216	79
890	107	34		
890	400	137		
890	107	34		
<b>SHEET TOTAL</b>			2161	517

CROSS SECTIONS STA. 619+00 TO STA. 623+00









PLOTTED BY: jgrmorse  
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CALC BY		OHIO FHWA REGION 5	158 361
DATE			
CHKD BY			

CUY-71-0.00

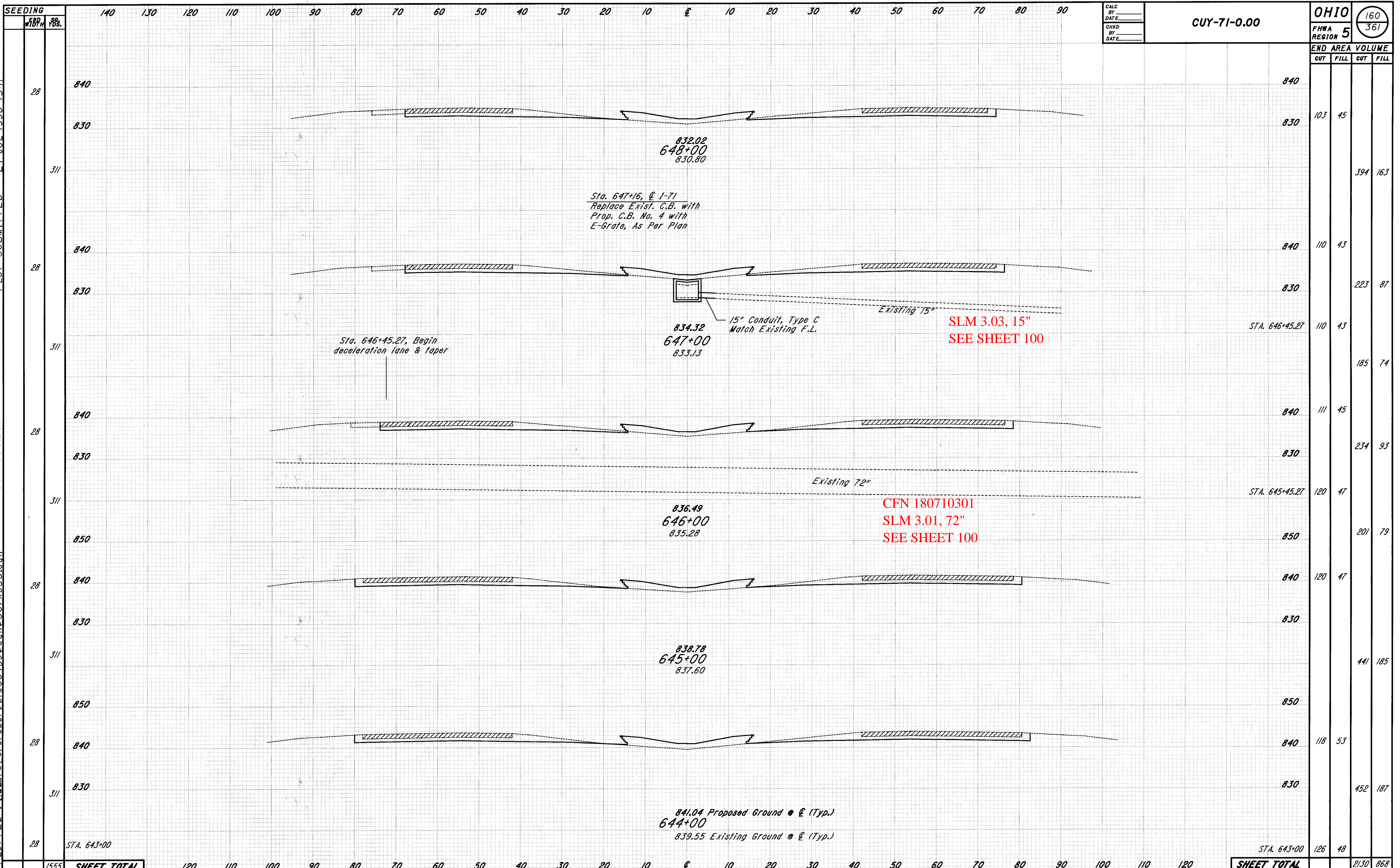
END STA	AREA	VOLUME	
		CUT	FILL
638+45.27 (BACK)	114	31	
638+00	114	31	191
637+00	115	31	424
636+00	116	36	428
635+00	117	36	417
634+00	109	28	409
633+32 (AHEAD)	112	40	282
<b>SHEET TOTAL</b>	<b>112</b>	<b>40</b>	<b>2151</b>

CROSS SECTIONS STA. 634+00 TO STA. 638+00



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PLOTTED FROM: Reforsber@d08459@dan@307xs33.dgn  
 PLOT SUBMITTED: 24-JUL-1998 15:11  
 307XS33.DGN



CALC BY _____ DATE _____ CHKD BY _____ DATE _____	<b>CUY-71-0.00</b>	<b>OHIO</b> FHWA REGION 5 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">160 361</span>
------------------------------------------------------------	--------------------	-----------------------------------------------------------------------------------------------------------------------------

END AREA		VOLUME	
CUT	FILL	CUT	FILL
840			
103	45		
		394	163
840	110	43	
830		223	87
110	43		
		185	74
840	111	45	
830		234	93
120	47		
		201	79
840	120	47	
830			
		441	185
850			
840	118	53	
830		452	187
126	48		
		2130	868

CROSS SECTIONS STA. 644+00 TO STA. 648+00



SEEDING

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

CALC BY: \_\_\_\_\_  
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DATE: \_\_\_\_\_

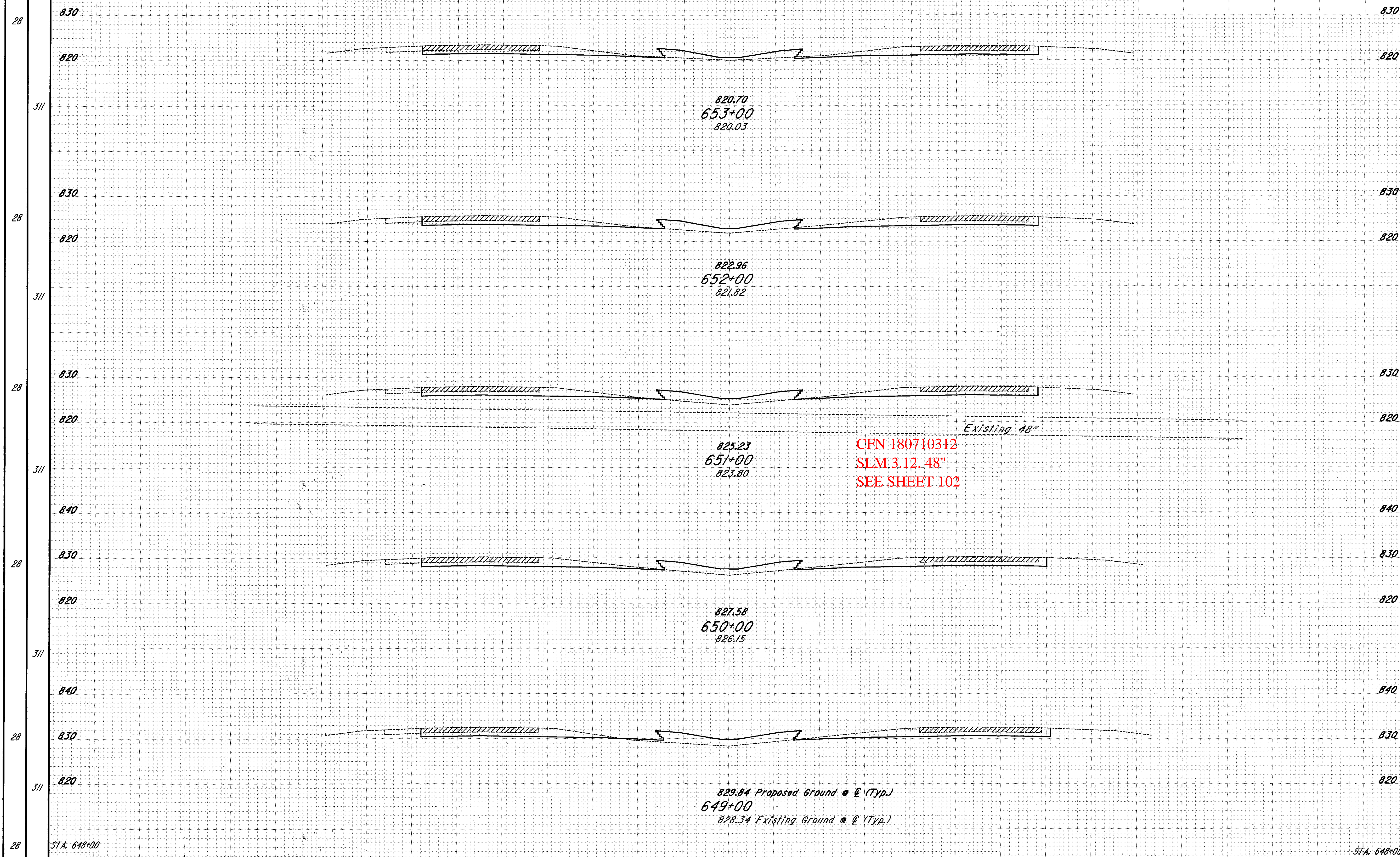
CUY-71-0.00

OHIO  
FHWA REGION 5  
161  
361

END AREA VOLUME

CUT	FILL	CUT	FILL
100	36		
		372	148
101	44		
		368	176
98	51		
		374	183
104	48		
		370	196
96	58		
		368	191
103	45		
		1852	894

PLOTTED FROM: \\users\eforsber\pid08459\dgn\307xs34.dgn  
PLOT SUBMITTED: 24-JUL-1998 15:11  
307XS34.DGN



CFN 180710312  
SLM 3.12, 48"  
SEE SHEET 102

829.84 Proposed Ground @ 0' (Typ.)  
649+00  
828.34 Existing Ground @ 0' (Typ.)

STA. 648+00

STA. 648+00

SHEET TOTAL

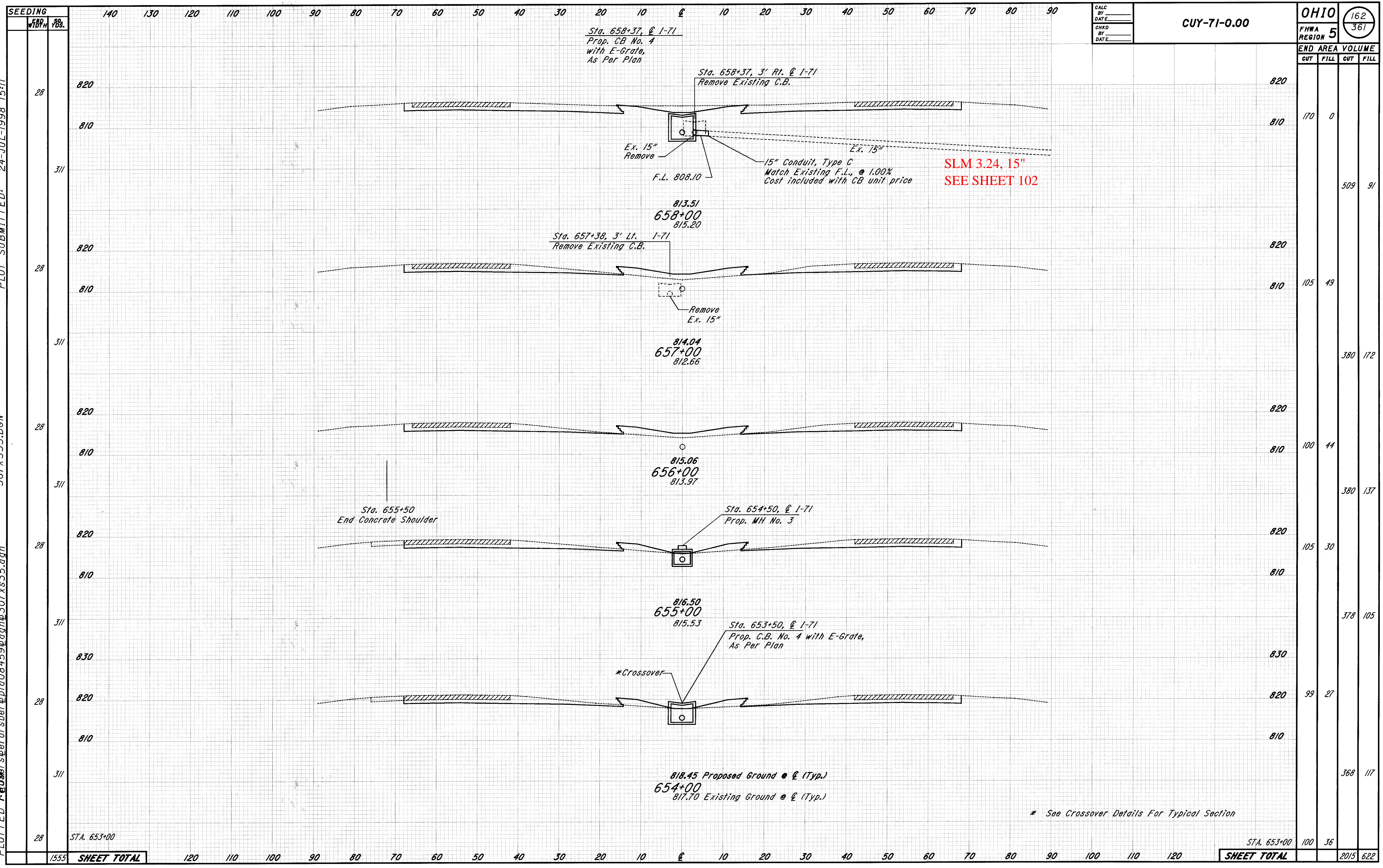
SHEET TOTAL

CROSS SECTIONS STA. 649+00 TO STA. 653+00



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PLOTTED FROM: s:\eforsber\epid\08459\dgn\307xs35.dgn  
 PLOT SUBMITTED: 24-JUL-1998 15:11  
 307XS35.DGN



SEEDING	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90																							
END AREA																								170	105	100	105	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
VOLUME																								0	49	44	30	27	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36

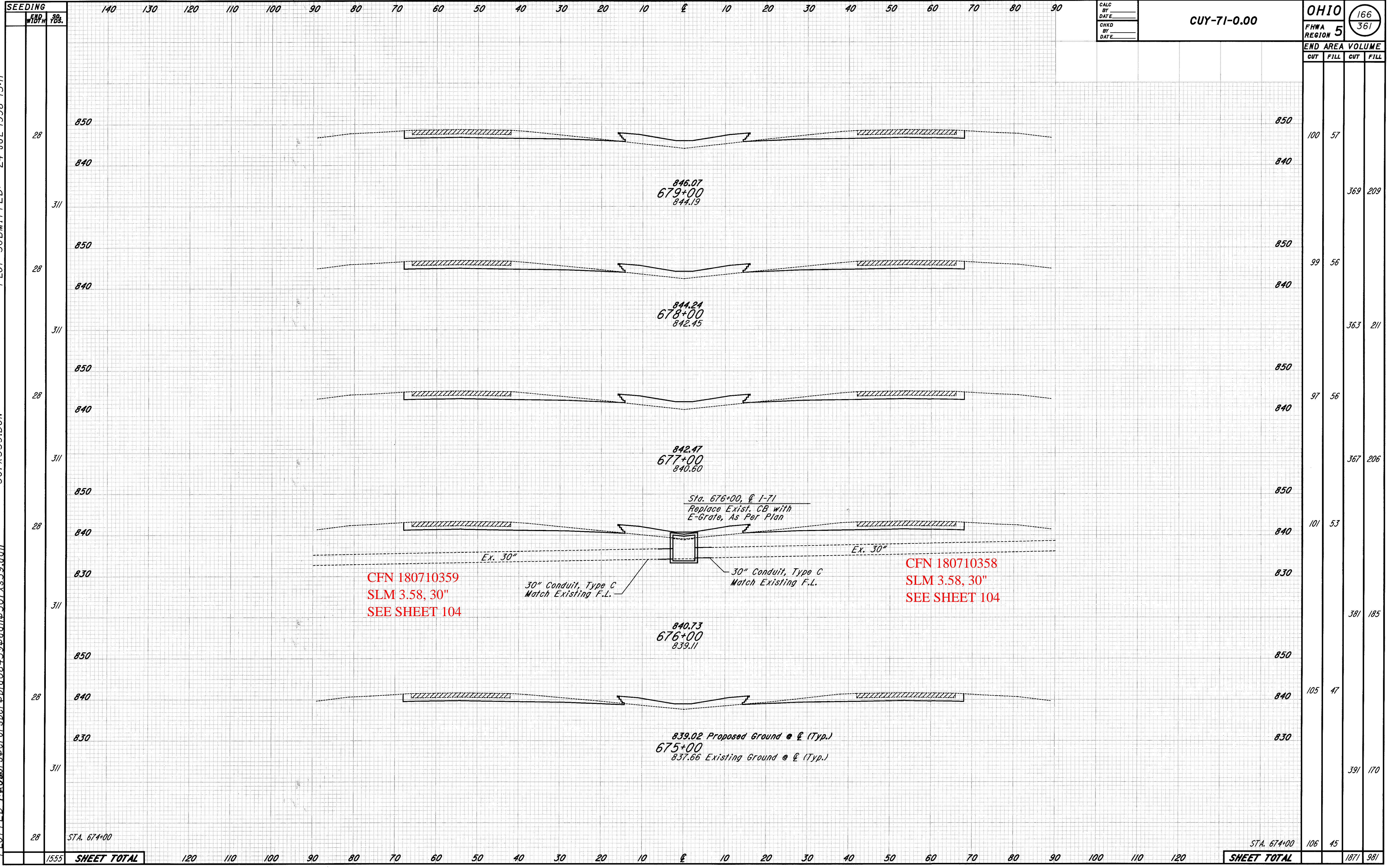
OHIO	162
FHWA REGION	5
CUY-71-0.00	
END AREA	170
VOLUME	0
CUT	105
FILL	49
CUT	100
FILL	44
CUT	105
FILL	30
CUT	99
FILL	27
CUT	100
FILL	36
SHEET TOTAL	2015
SHEET TOTAL	622

CROSS SECTIONS STA. 654+00 TO STA. 658+00









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CROSS SECTIONS STA. 675+00 TO STA. 679+00



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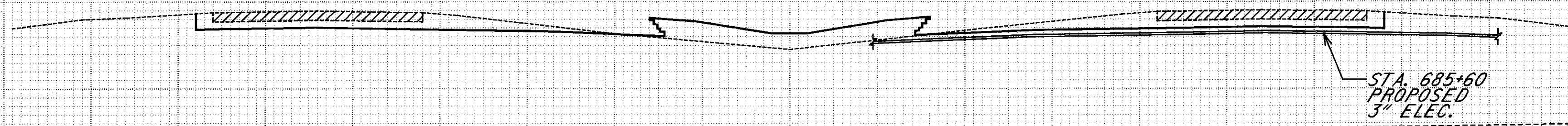
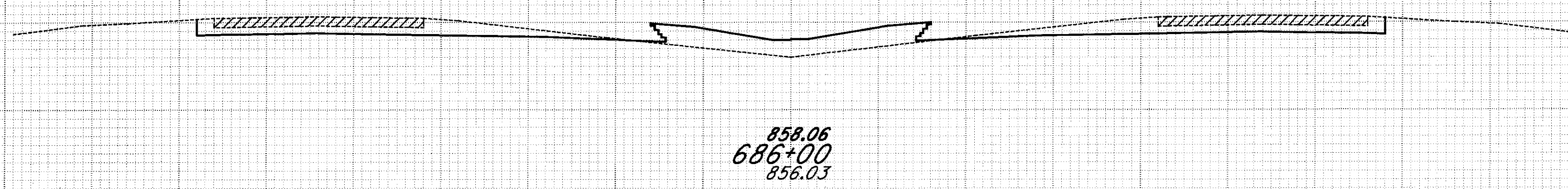
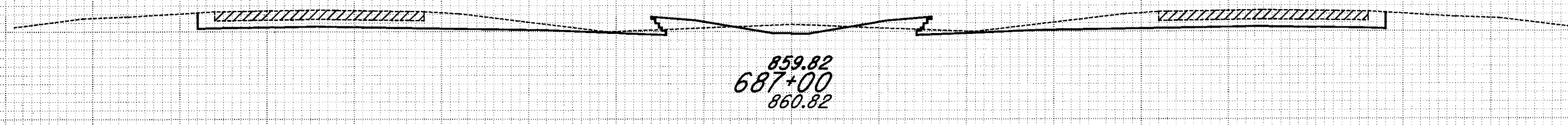
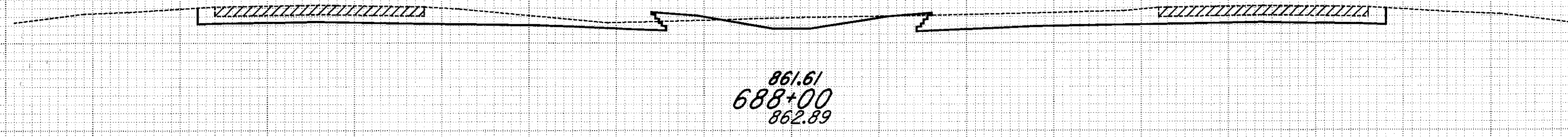
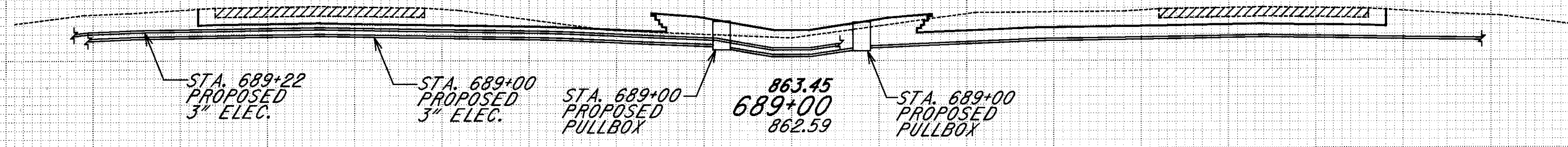
CUY-71-0.00

OHIO  
FHWA REGION 5  
168  
361

END AREA VOLUME

CUT	FILL	CUT	FILL
117	32		
		265	73
117	32		
		476	69
140	5		
		456	35
106	14		
		372	143
95	63		
		354	226
96	59		
		376	198
107	48		
		2299	744

CUY-71-0384 BRIDGE  
Station 689+61.19



856.34 Proposed Ground @  $\ell$  (Typ.)  
685+00  
854.53 Existing Ground @  $\ell$  (Typ.)

CFN 180710378  
SLM 3.78, 78"  
SEE SHEET 106

STA. 684+00

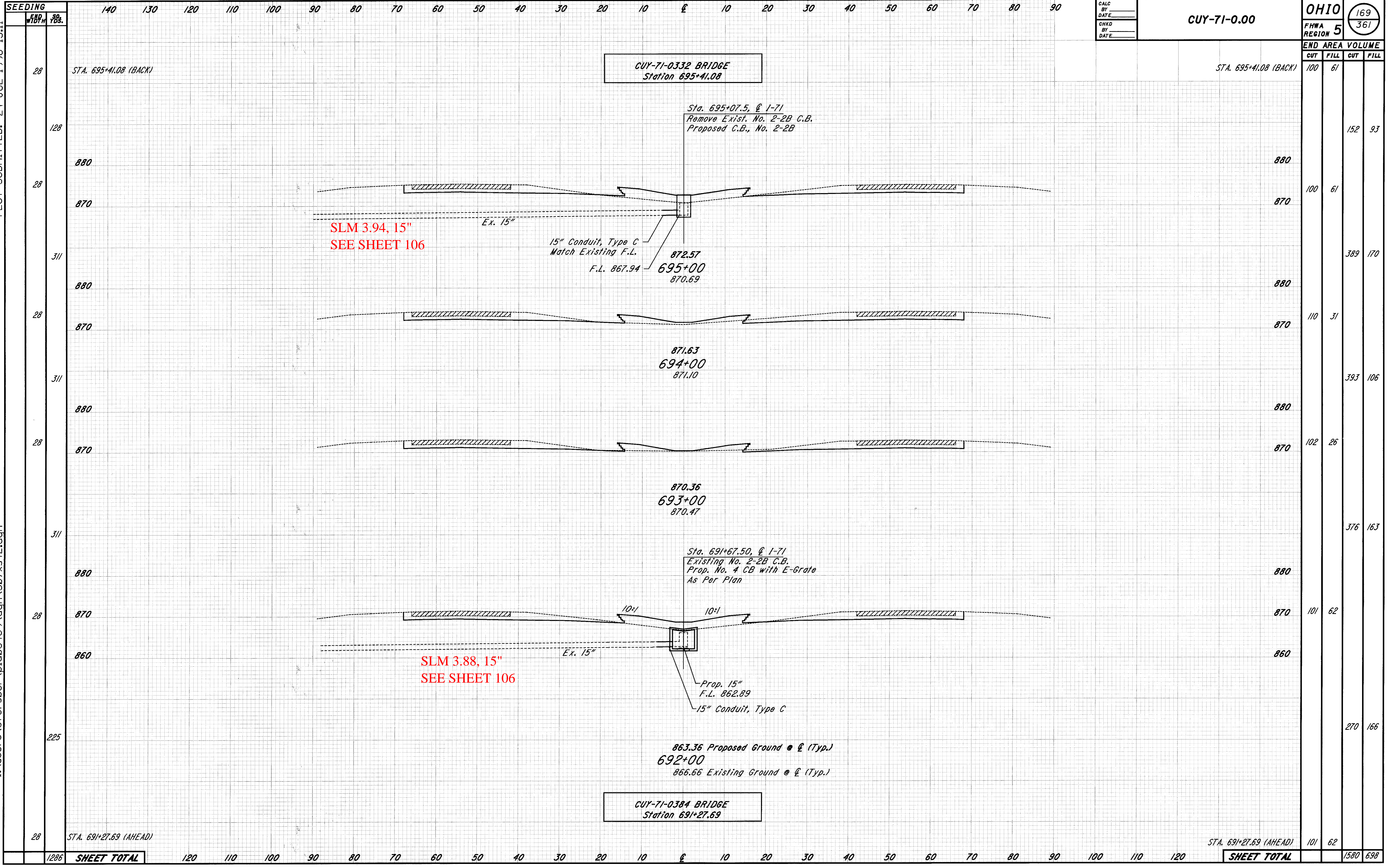
SHEET TOTAL

CROSS SECTIONS STA. 685+00 TO STA. 689+00

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SHEET TOTAL  
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CROSS SECTIONS STA. 692+00 TO STA. 695+00



SEEDING

WIBF 88%

88%

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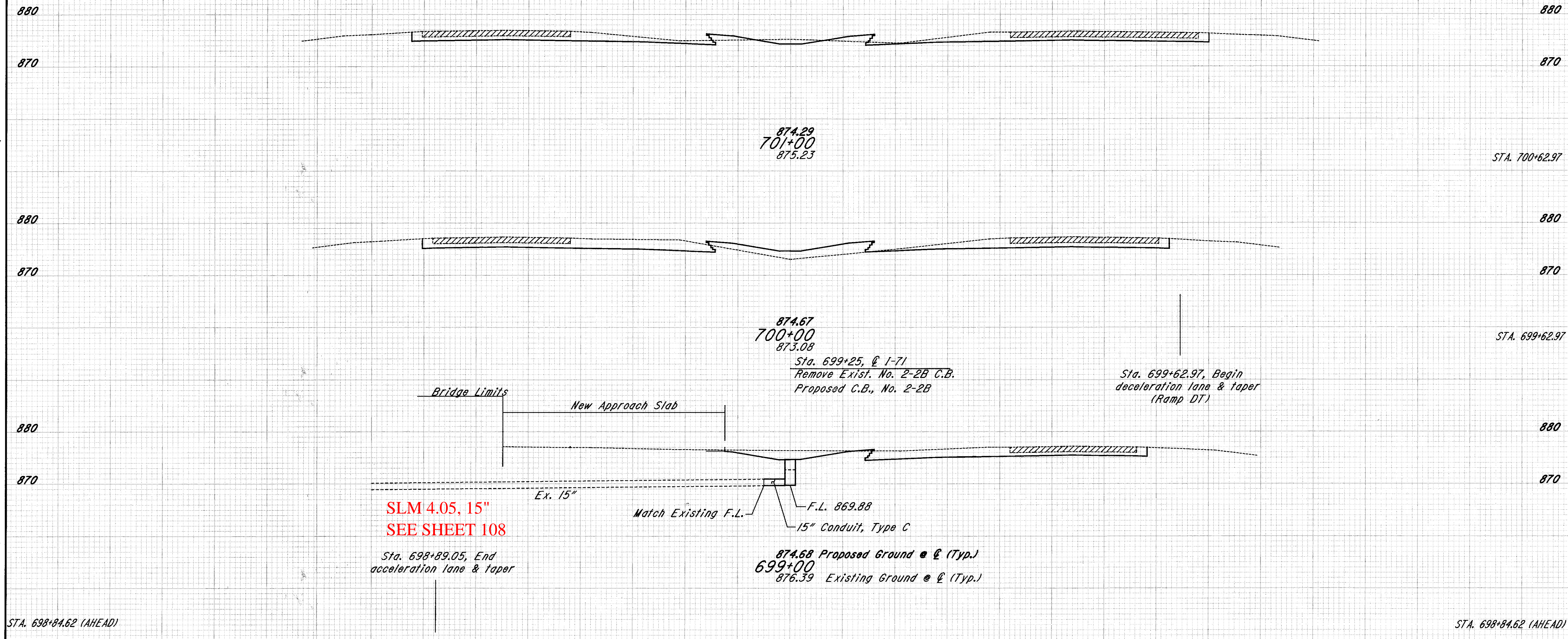
CUY-71-0.00

OHIO 170  
FHWA REGION 5 361

END AREA VOLUME  
CUT FILL CUT FILL

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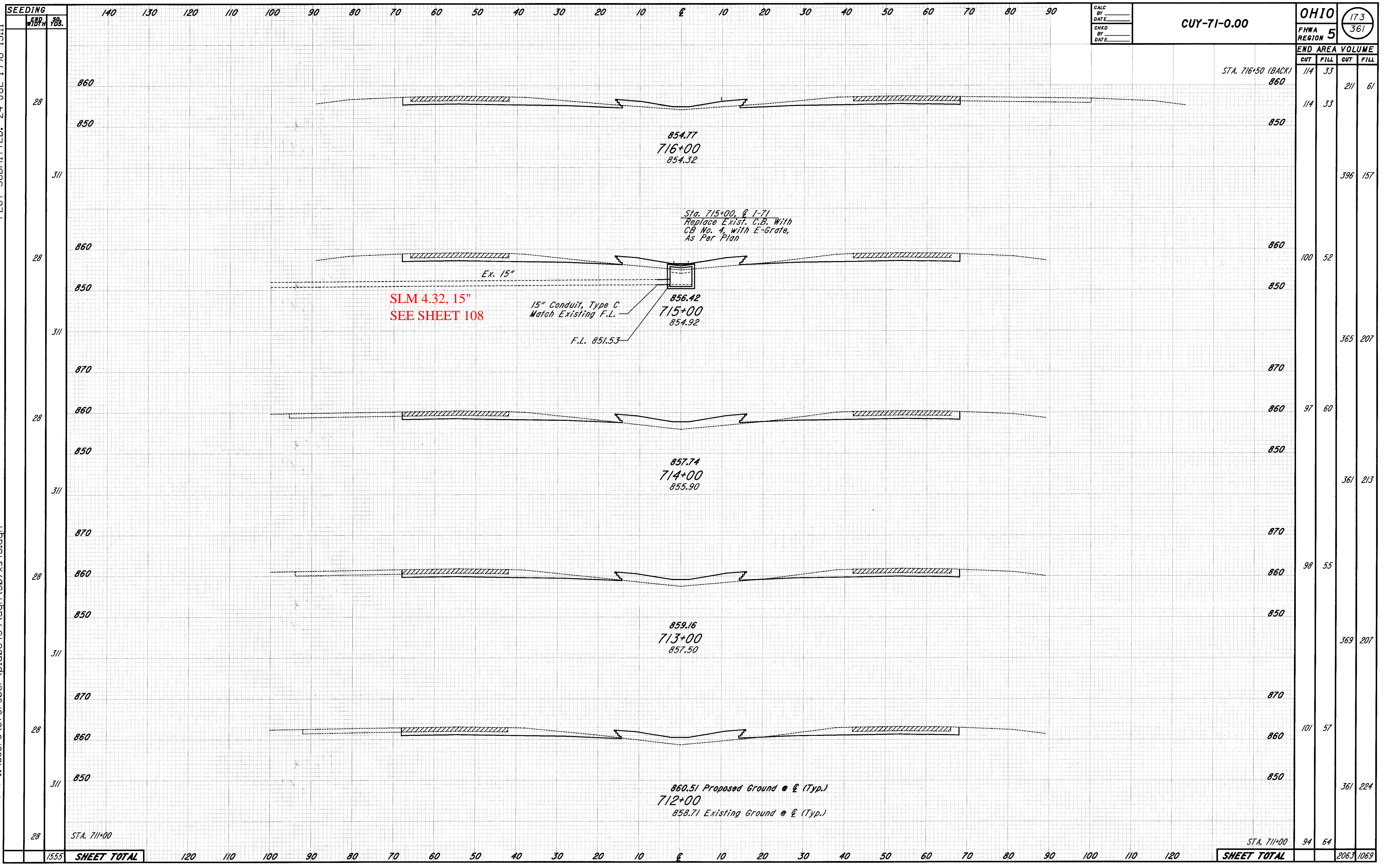
END AREA	VOLUME
CUT	FILL
115	13
115	13
115	13
130	44
120	26
120	26
63	26
63	26
1059	268

CUY-71-0395 BRIDGE  
Station 698+84.62

407 SHEET TOTAL 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 SHEET TOTAL

CROSS SECTIONS STA. 699+00 TO STA. 701+00





CROSS SECTIONS STA. 712+00 TO STA. 716+00

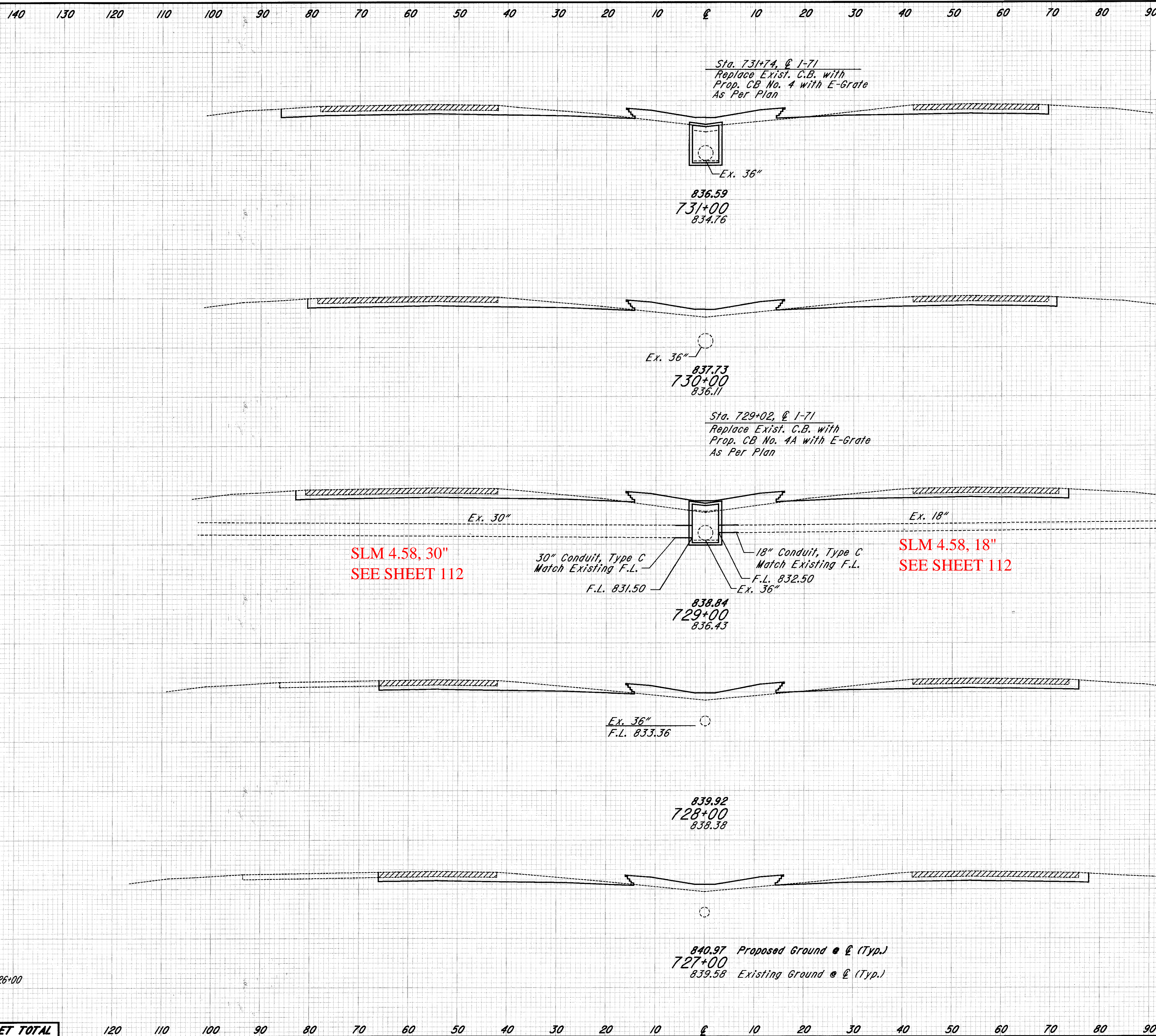
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SEEDING  
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OHIO		FHWA REGION 5		END AREA		VOLUME	
CUY-71-0.00		176		CUT	FILL	CUT	FILL
840							
830		117	59				
850						217	109
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850		115	52			213	96
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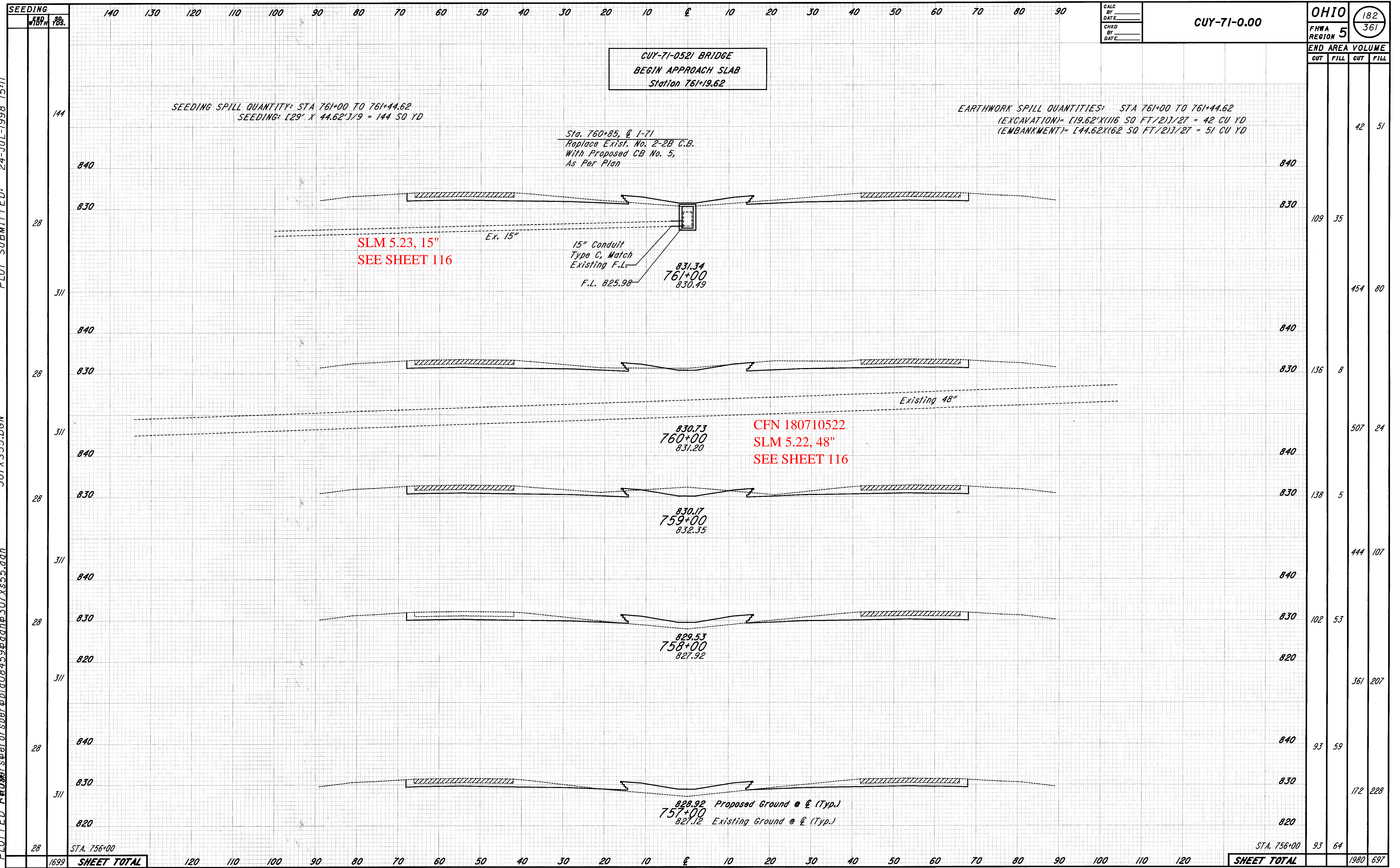








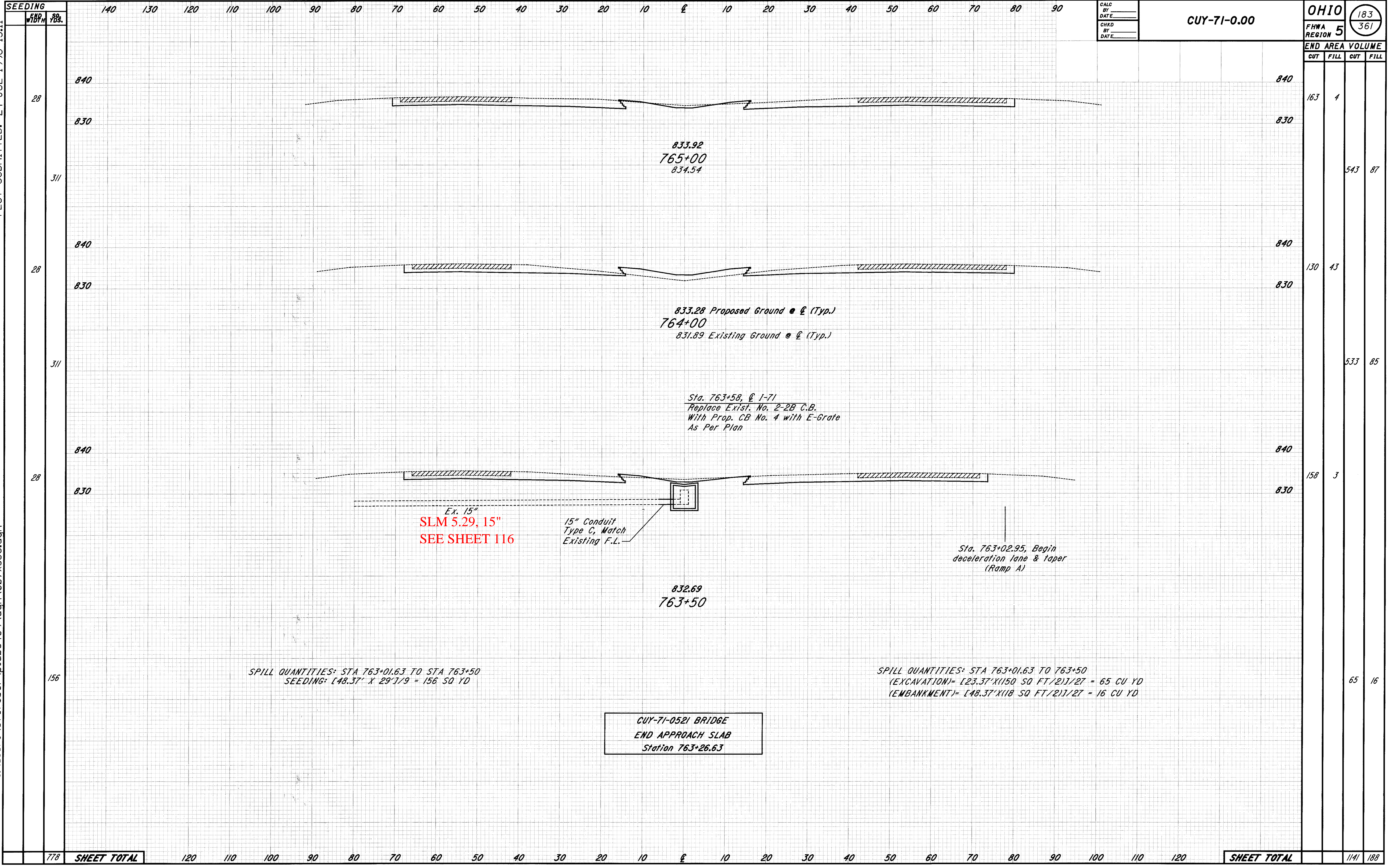




CROSS SECTIONS STA. 757+00 TO STA. 761+00

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CROSS SECTIONS STA. 763+50 TO STA. 765+00

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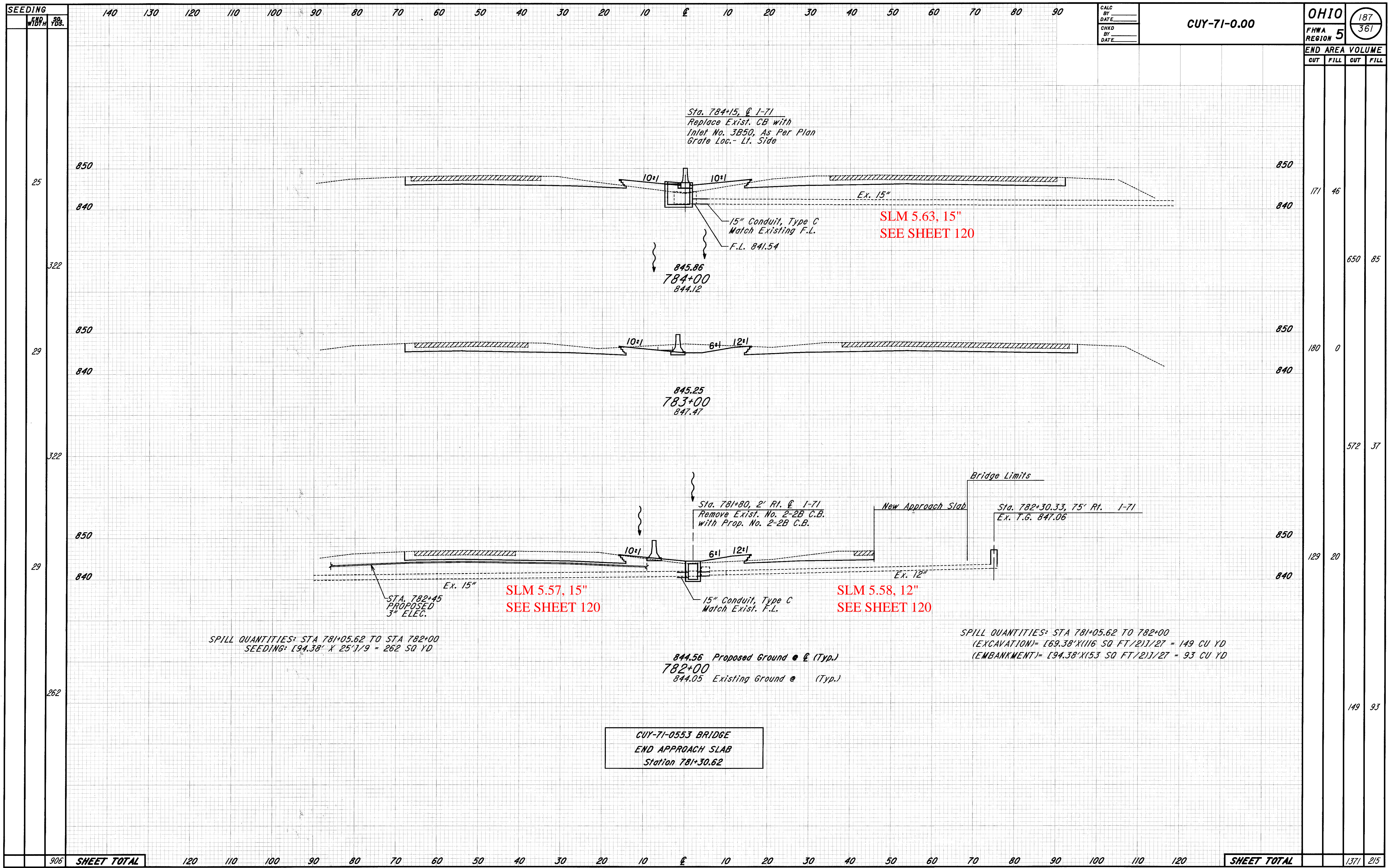








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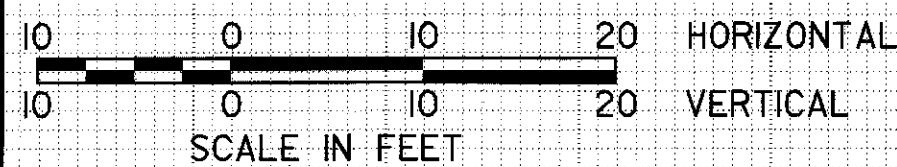
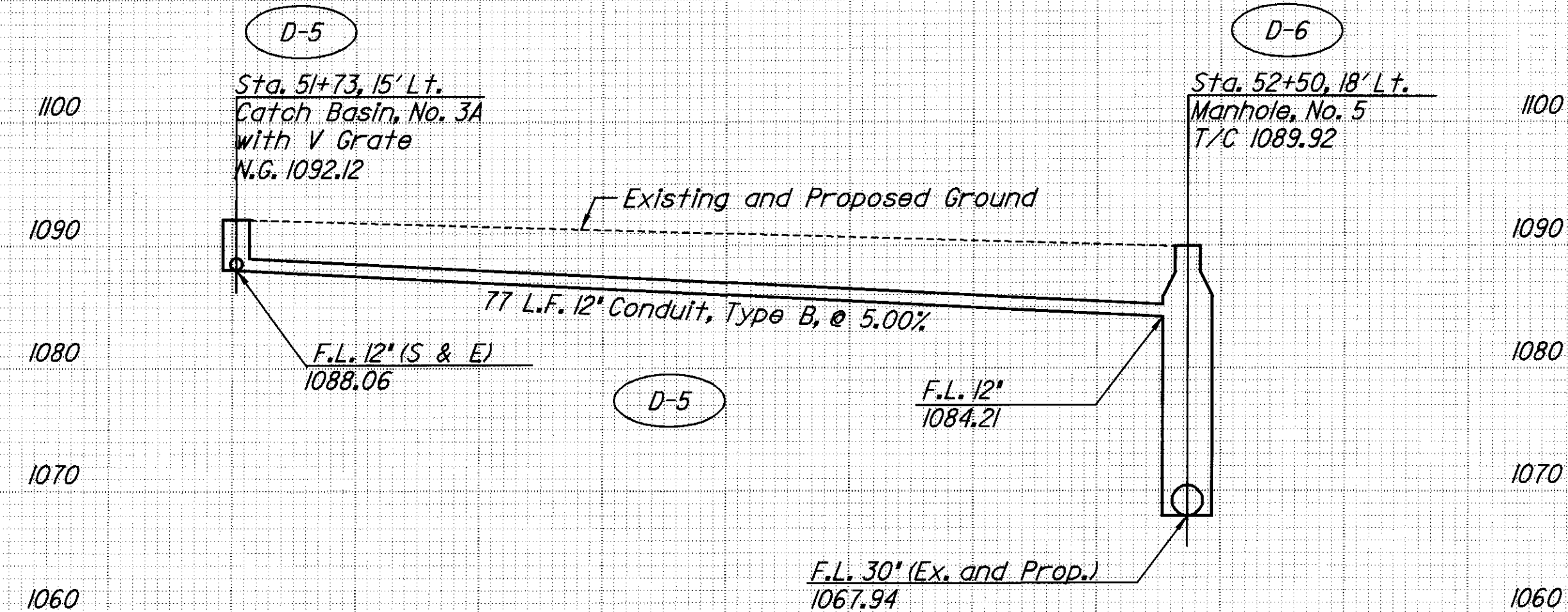
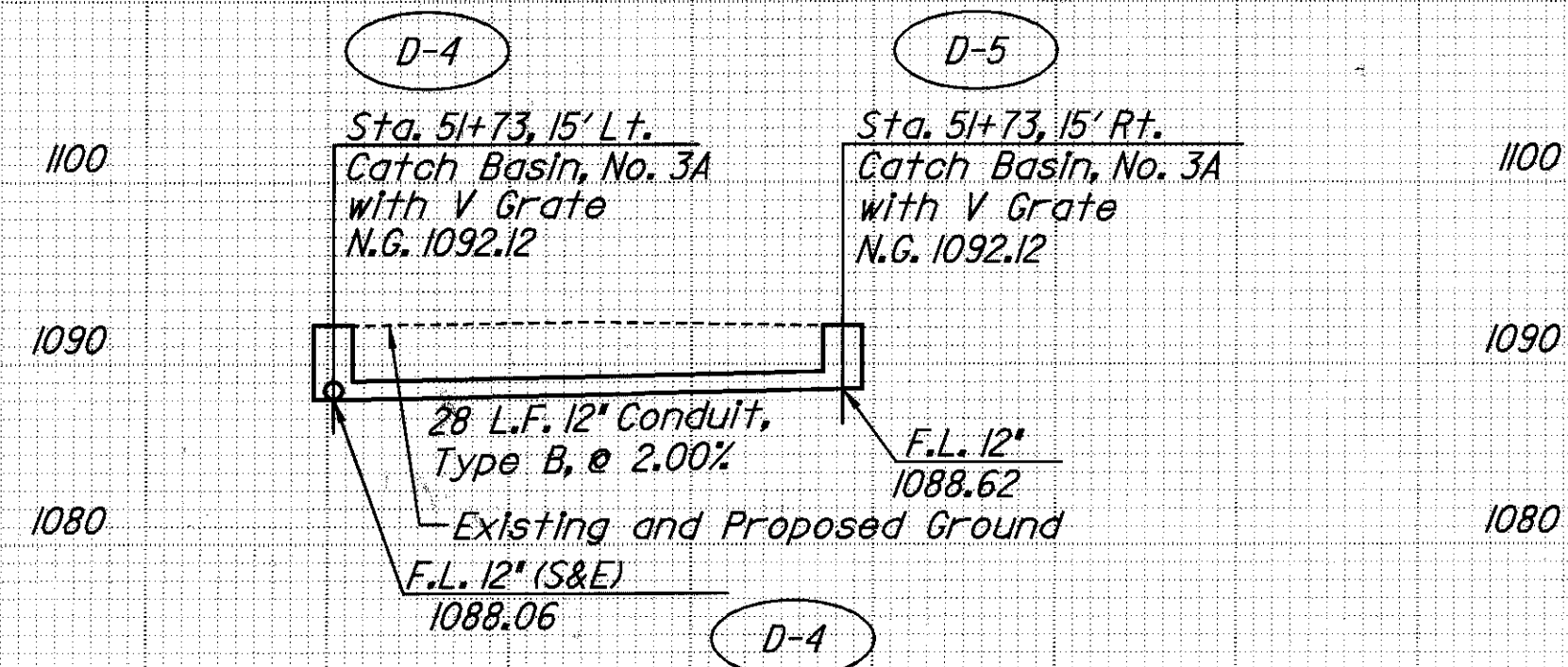
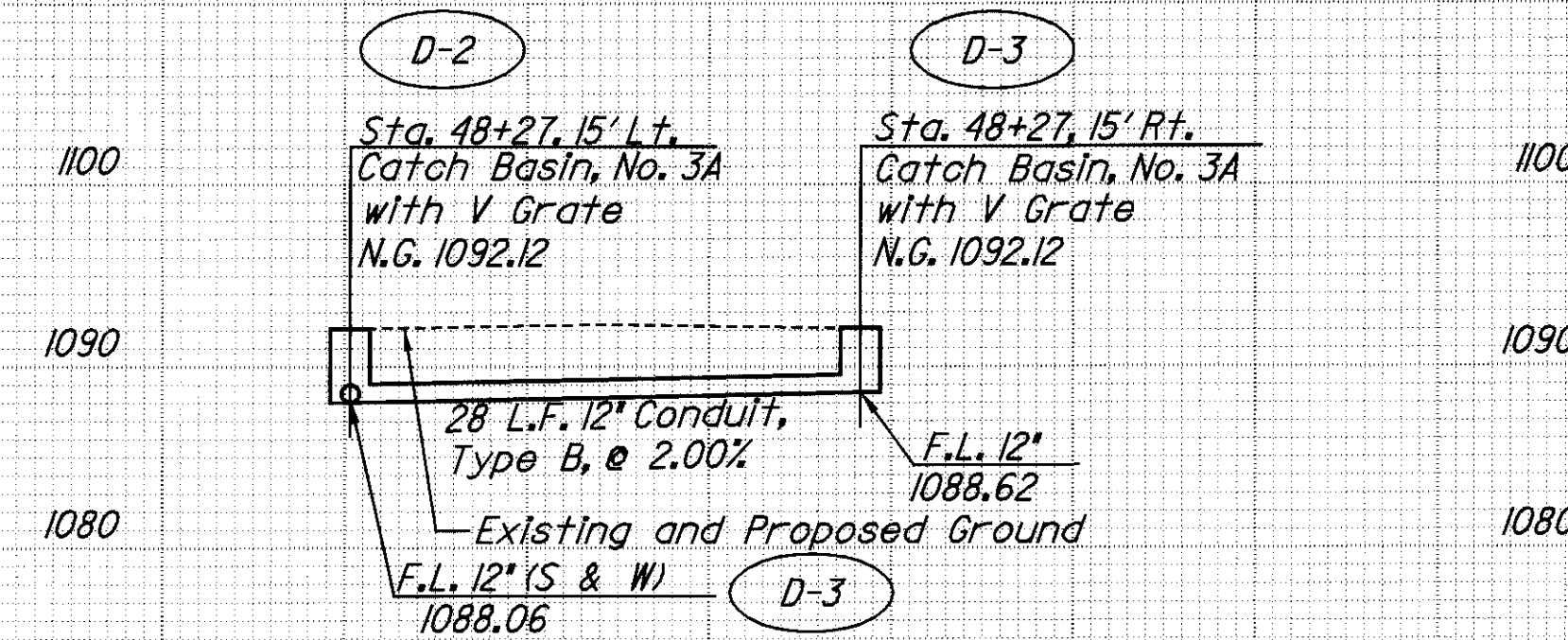
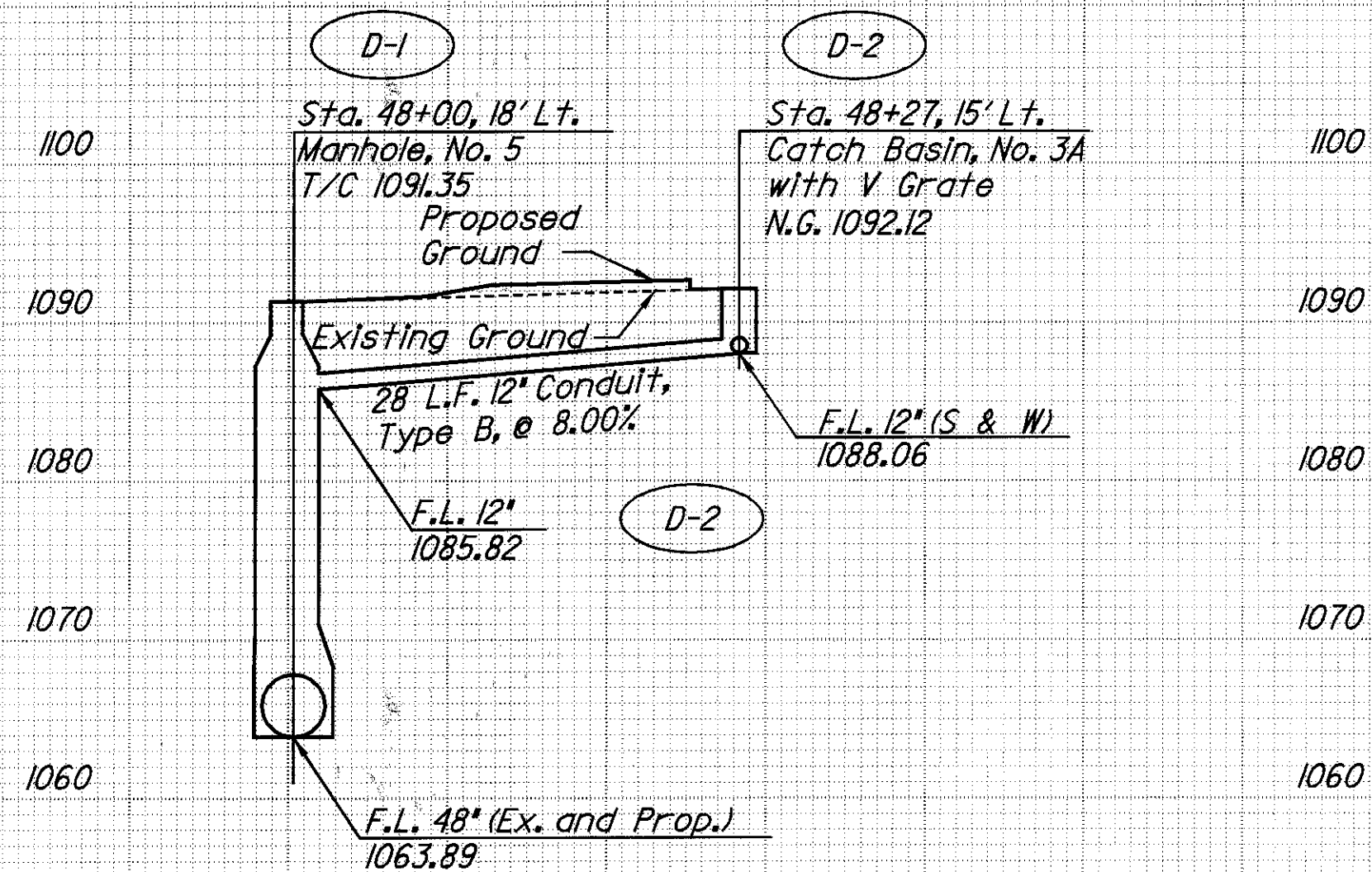
SEEDING

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OHIO 199  
FHWA REGION 5 361

END AREA VOLUME  
CUT FILL CUT FILL

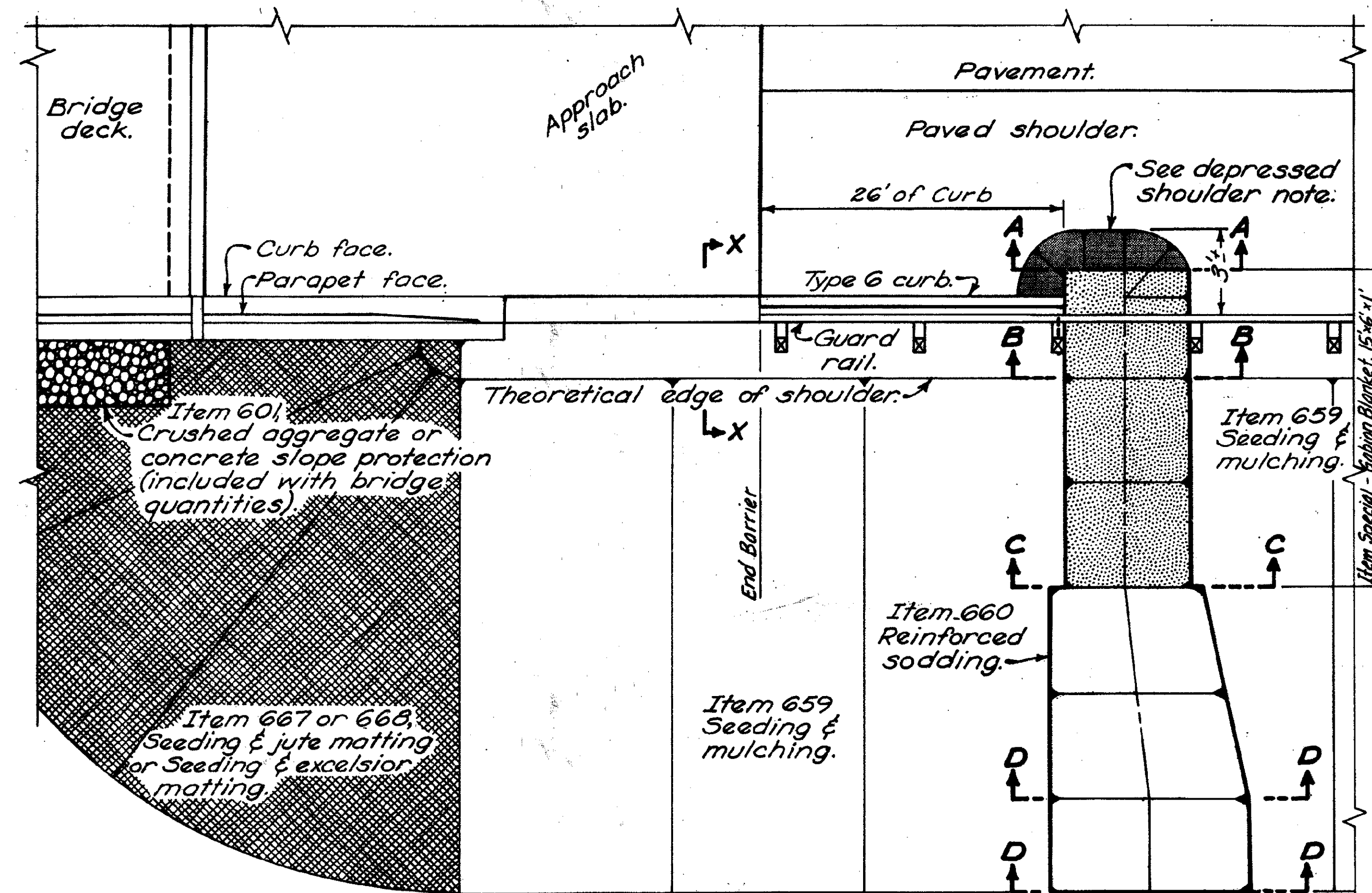


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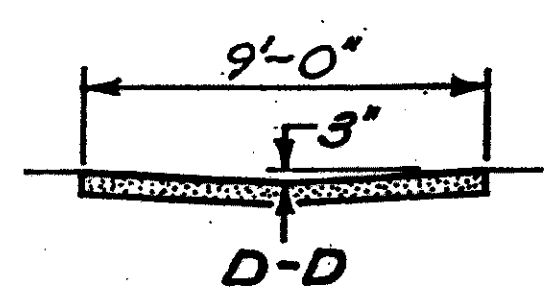
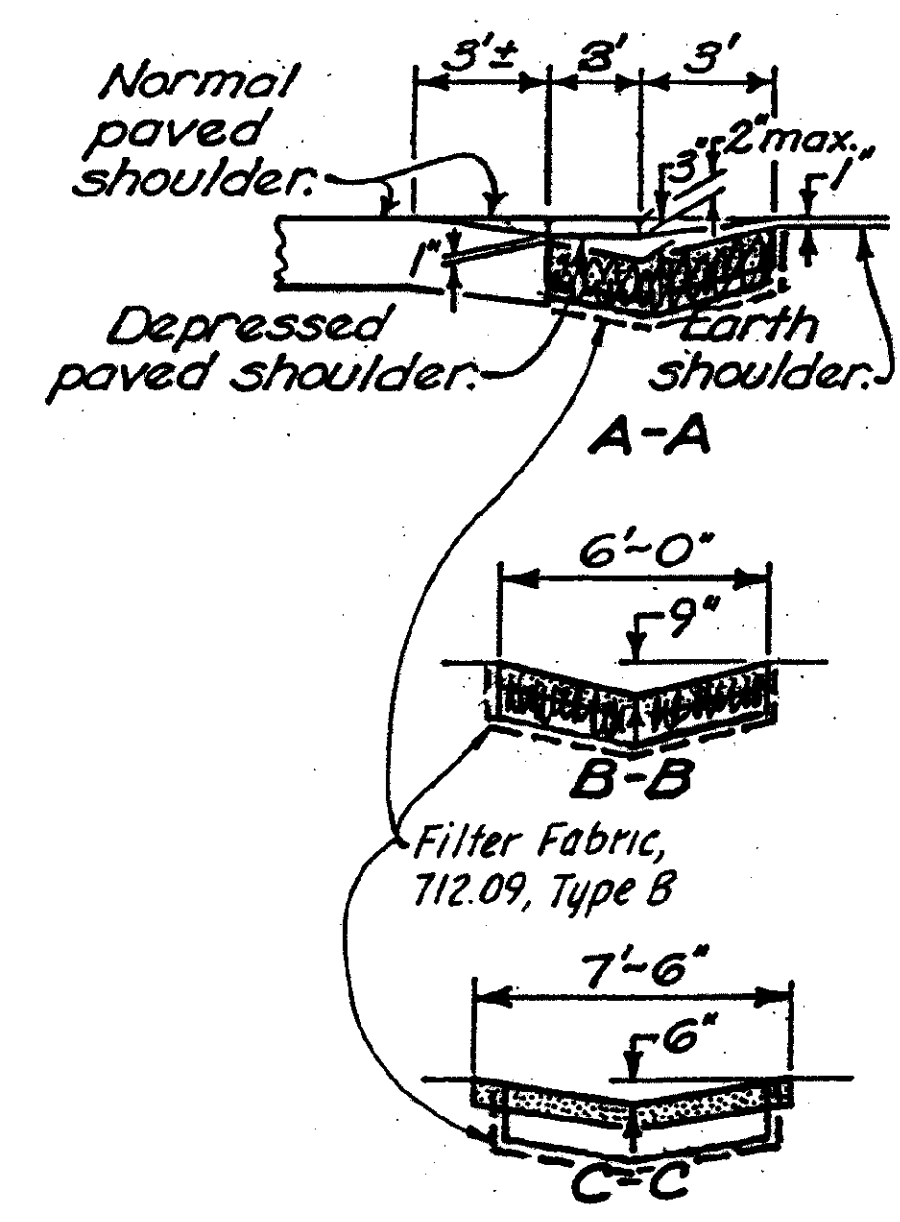
SHEET TOTAL

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PLAN



CROSS SECTIONS

**NOTES**  
**DEPRESSED SHOULDER:** This portion of the shoulder shall be depressed to assure positive drainage into the Gabion Flume. Especially in the shoulder area it is important to excavate and shape the subgrade according to the cross sections.

**PLACING REINFORCED SODDING:** Prior to the placement of sod, galvanized poultry netting shall be placed on the finished subgrade. The netting shall be 4 foot wide poultry fence or equivalent, with 2 inch mesh and No. 20 gauge minimum wire. Each strand shall be staked securely to the subgrade by using 1"x1"x8" wood stakes or T-shaped pins of the size stated in 660.06. The stakes or pins shall be placed at 4 foot intervals on the top and bottom and in rows 4 feet apart. The fence shall be fastened to the wood stakes with metal staples. Where the sodding is from 8 feet to 9 feet wide, two strands of netting for a total width of 8 feet is permitted.

**SOD:** Sod shall be laid in accordance with 660. Special care shall be taken to excavate the sod bed to a proper depth so that the sod is flush with the surrounding grade.

**PAYMENT:** Payment for all the above shall be included in the unit price bid for Item 660, Square Yard, Reinforced sodding.

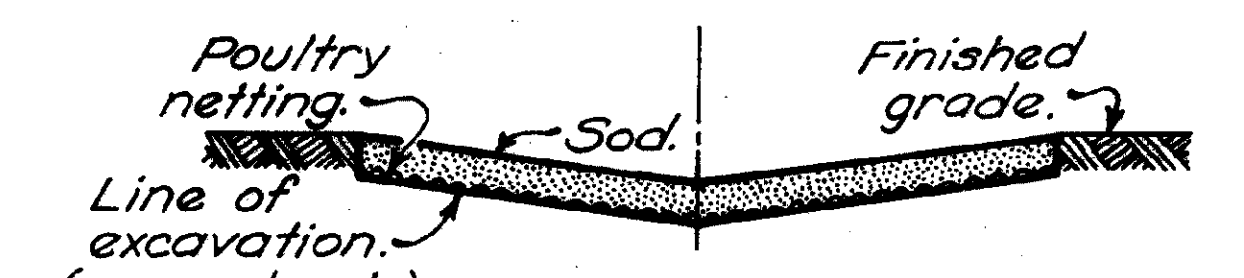
**GABION BLANKET**

Item Special - Gabions, with additional coating, shall be installed in accordance with this detail and on Sheet 16.

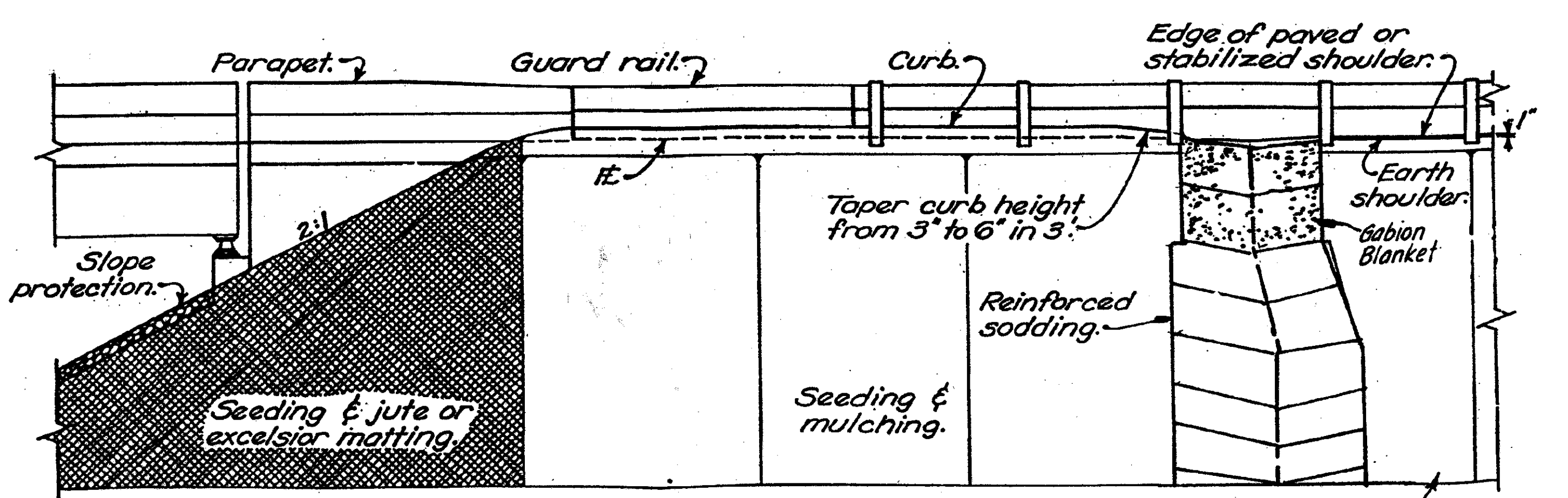
**PLACING FILTER FABRIC**

Filter Fabric, 712.09 Type B shall be placed in accordance with the second paragraph of 601.08. In addition, securing pins as provided in 601.08 shall be placed to coincide with the gabion blanket wire basket. In such a manner so as to prevent downward migration of the wire basket lower surface.

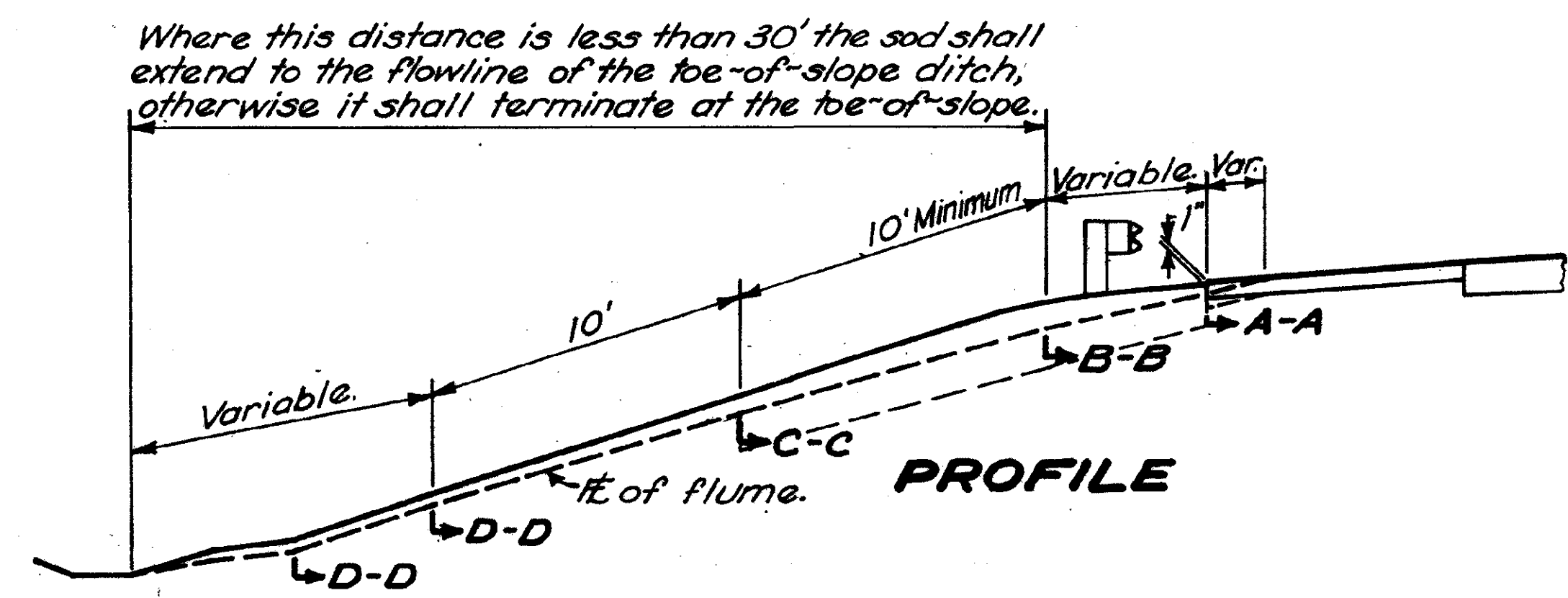
All costs of furnishing and installing filter fabric shall be included in Item Special - Gabions, with additional coating.



SOD INSTALLATION DETAIL



ELEVATION

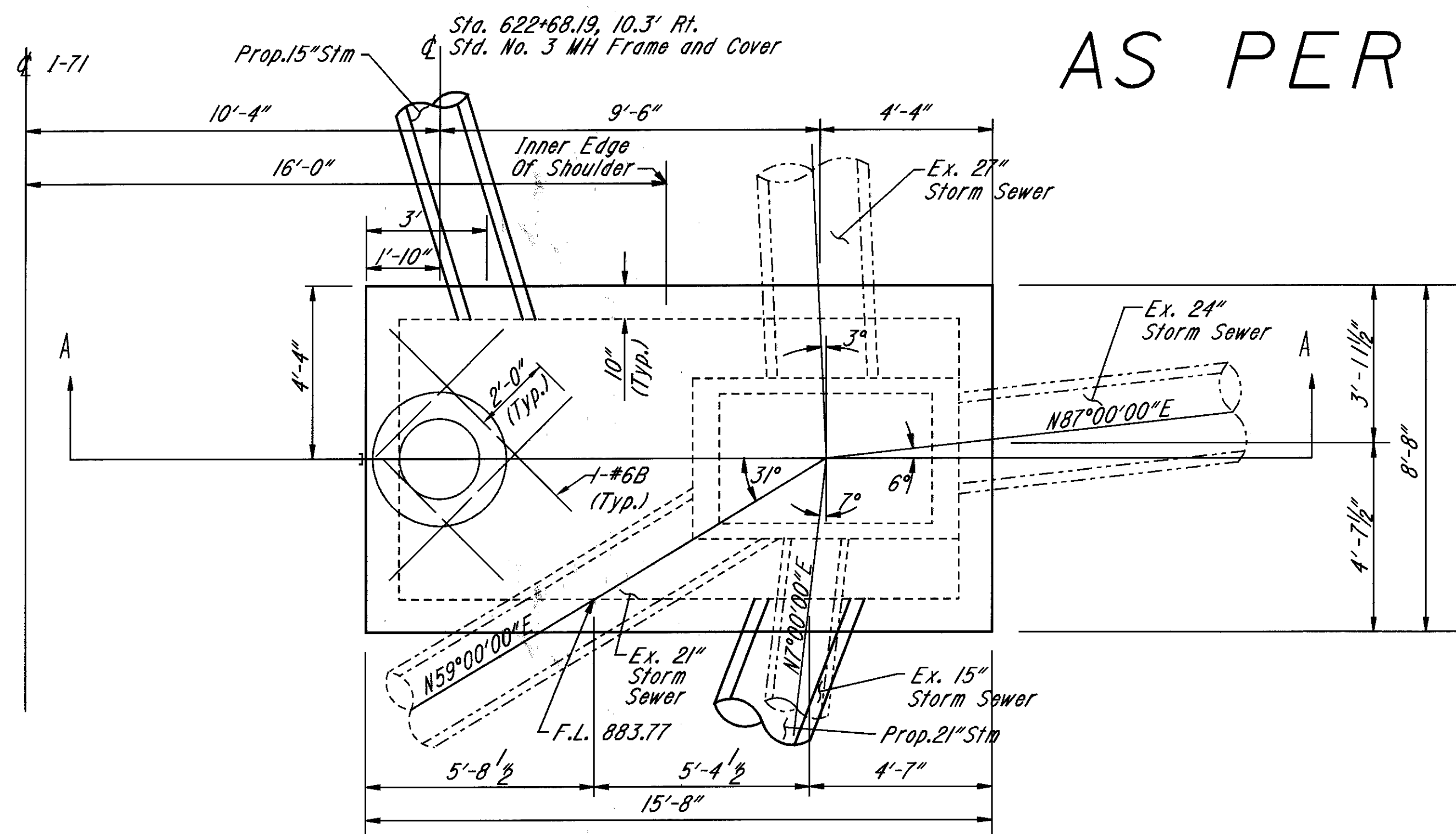


PROFILE

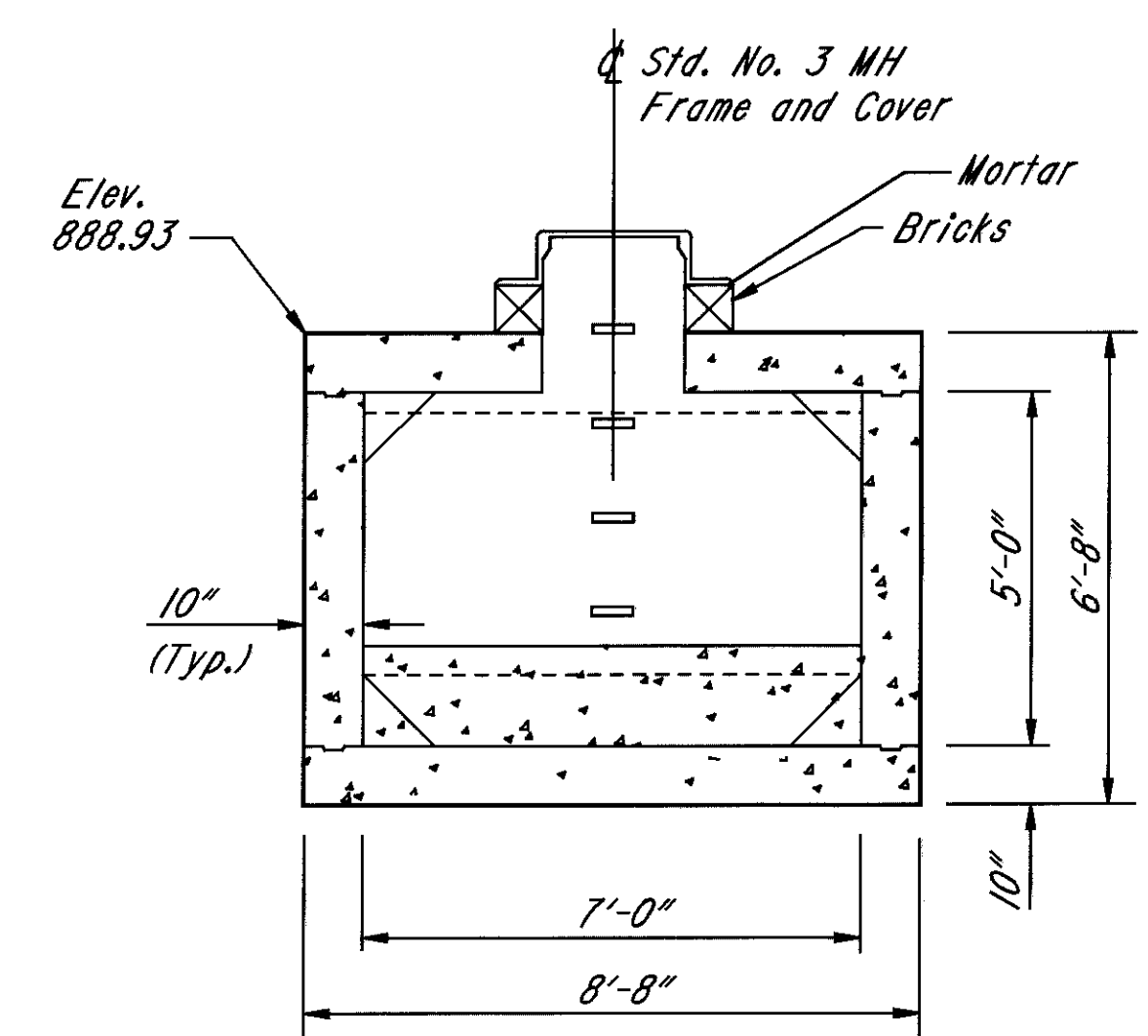
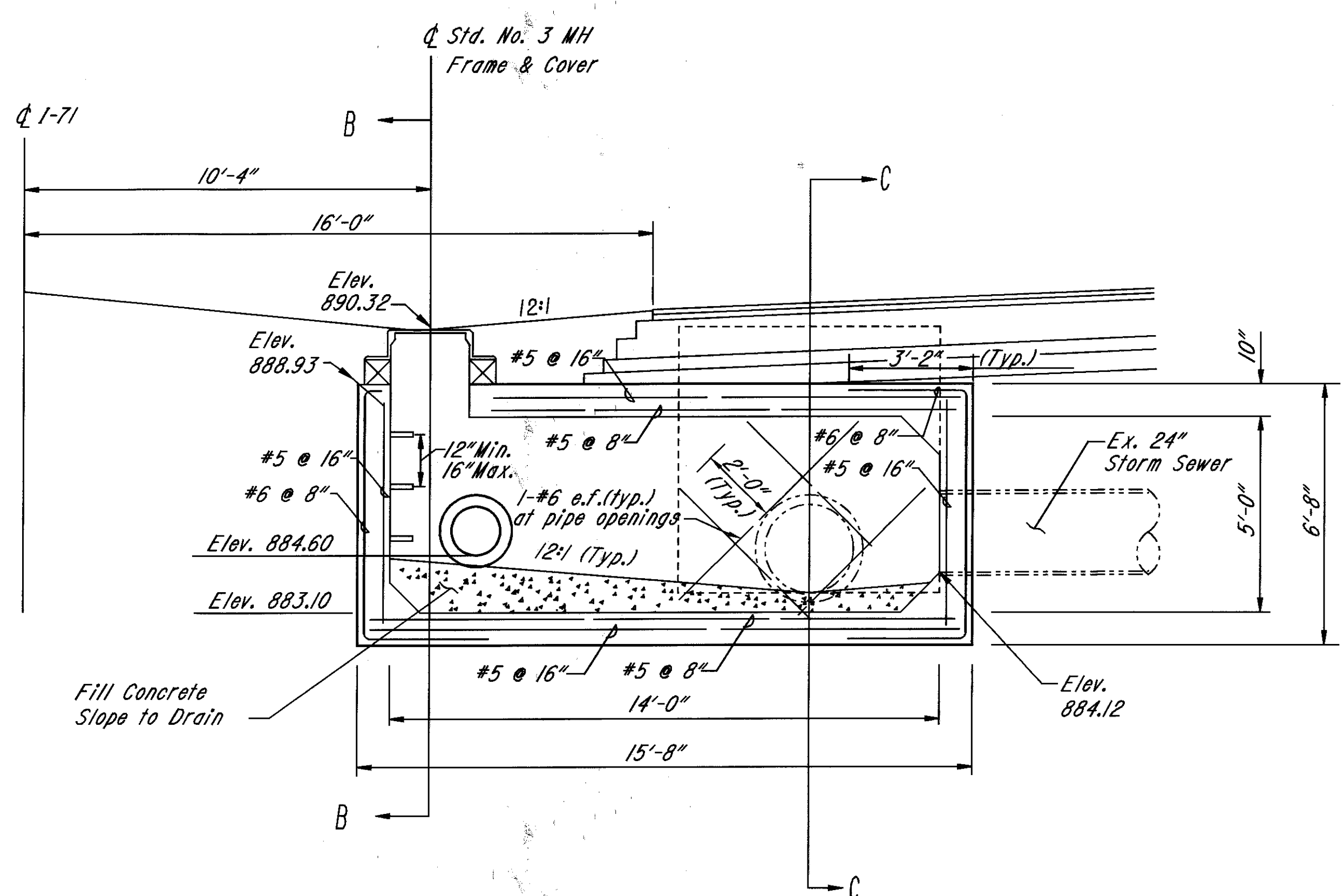
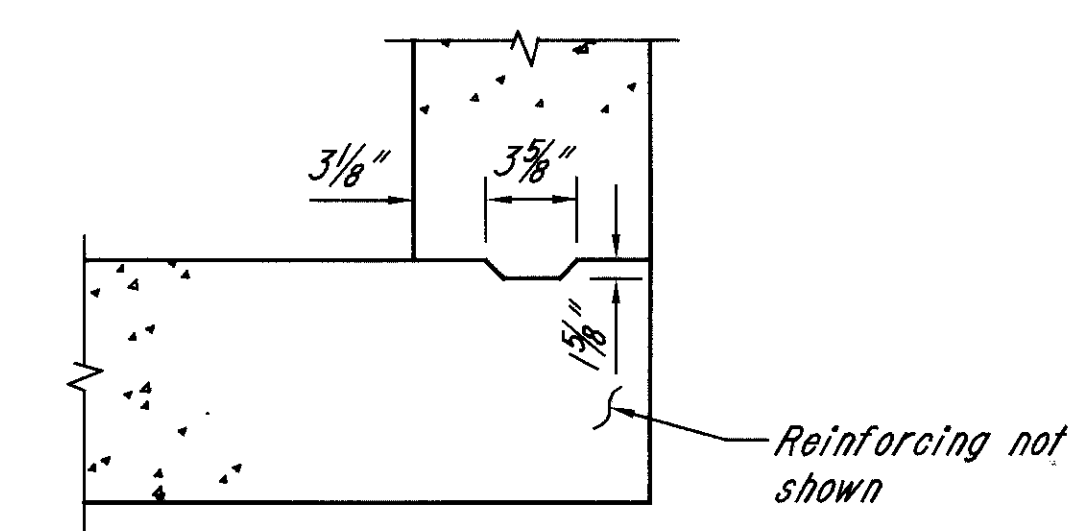
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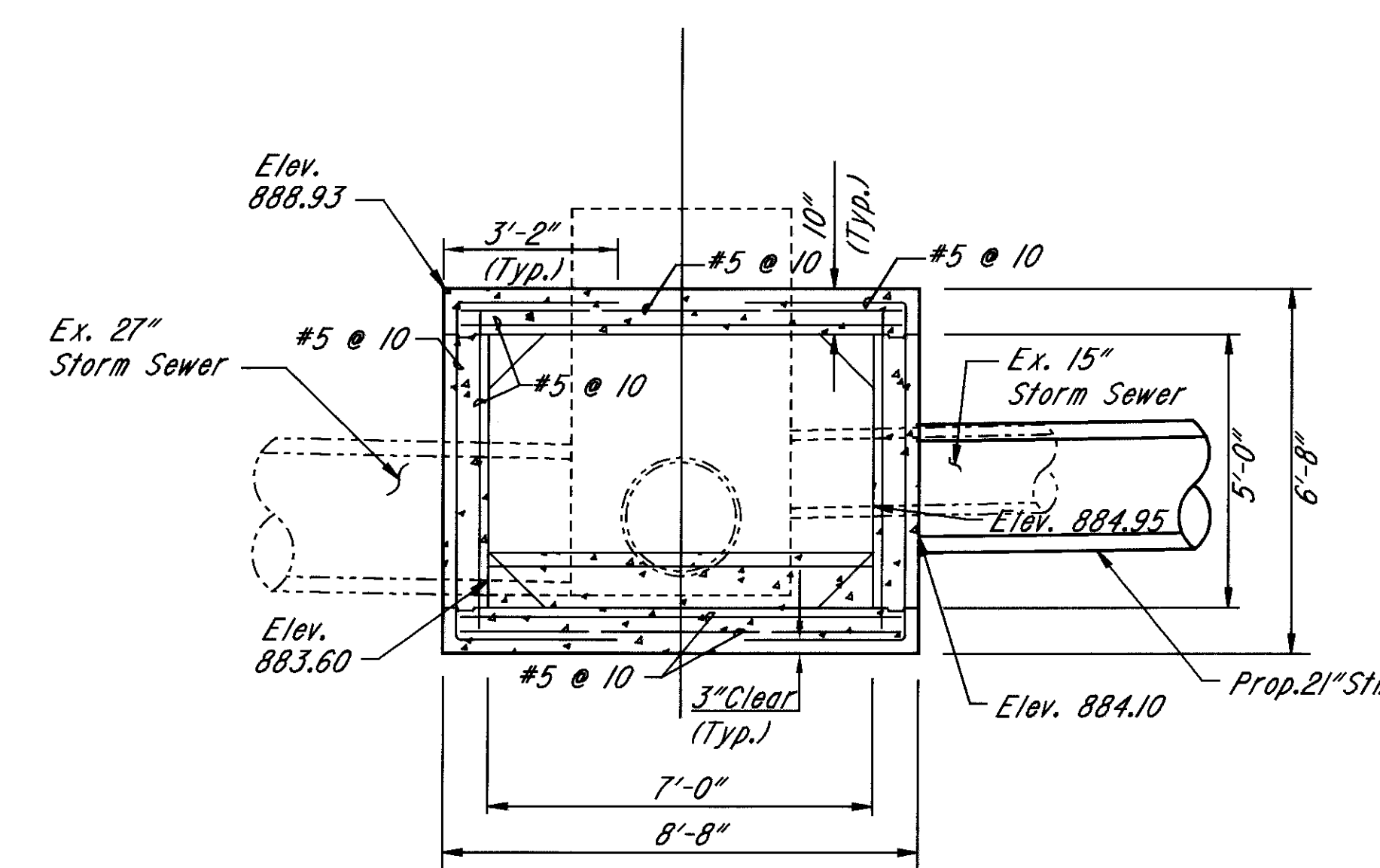
# JUNCTION CHAMBER AS PER PLAN, TYPE I



- Existing To Be Removed.
  - Existing To Remain.
  - Proposed.
- Note:
1. See Std. Drawing MH-3 for Additional Details
  2. 2" Minimum Concrete Cover, except as noted.
  3. Construction Joints are permissible at any location.
  4. This structure maybe cast-in-place, precast or a combination of both.
  5. All Junction Chamber boxes shall be constructed in accordance with the requirements of O.D.O.T. CMS Item 706.05.
  6. Cut reinforcement as required at openings.
  7. Bid price shall include the replacement of any connecting sewer damaged during the removal and installation of the chamber. The new pipe shall match the material type of the existing pipe and the requirements of Item 603.



Note: For reinforcement see Section C-C

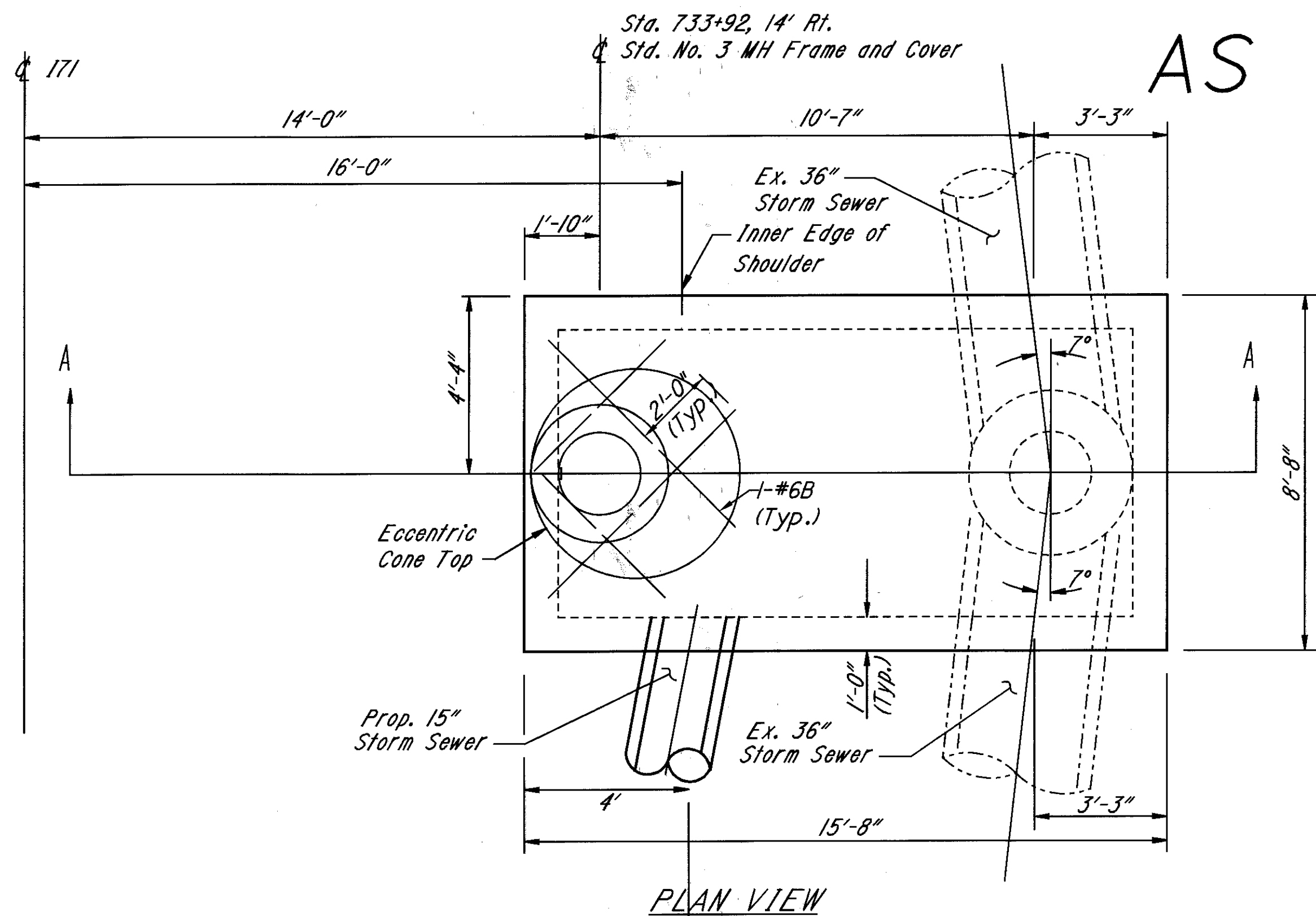


**EUTHEMICS INC.**  
CONSULTING ENGINEER  
CLEVELAND, OHIO

DESIGNED BY: DATE: 11-94  
CHECKED BY: RSW DATE: 12-12-94  
DRAWN BY: SCALE: 1/4" = 1'-0"

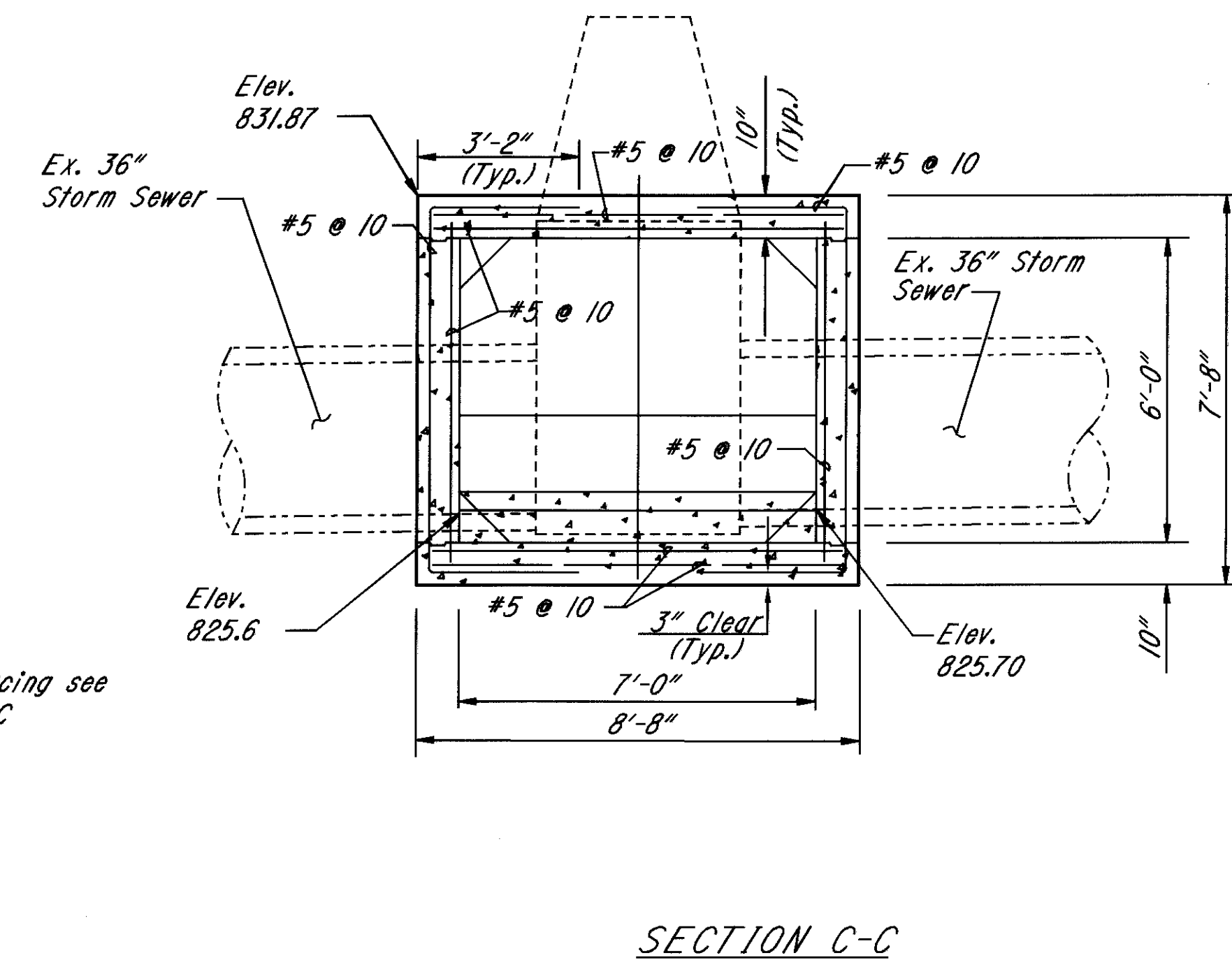
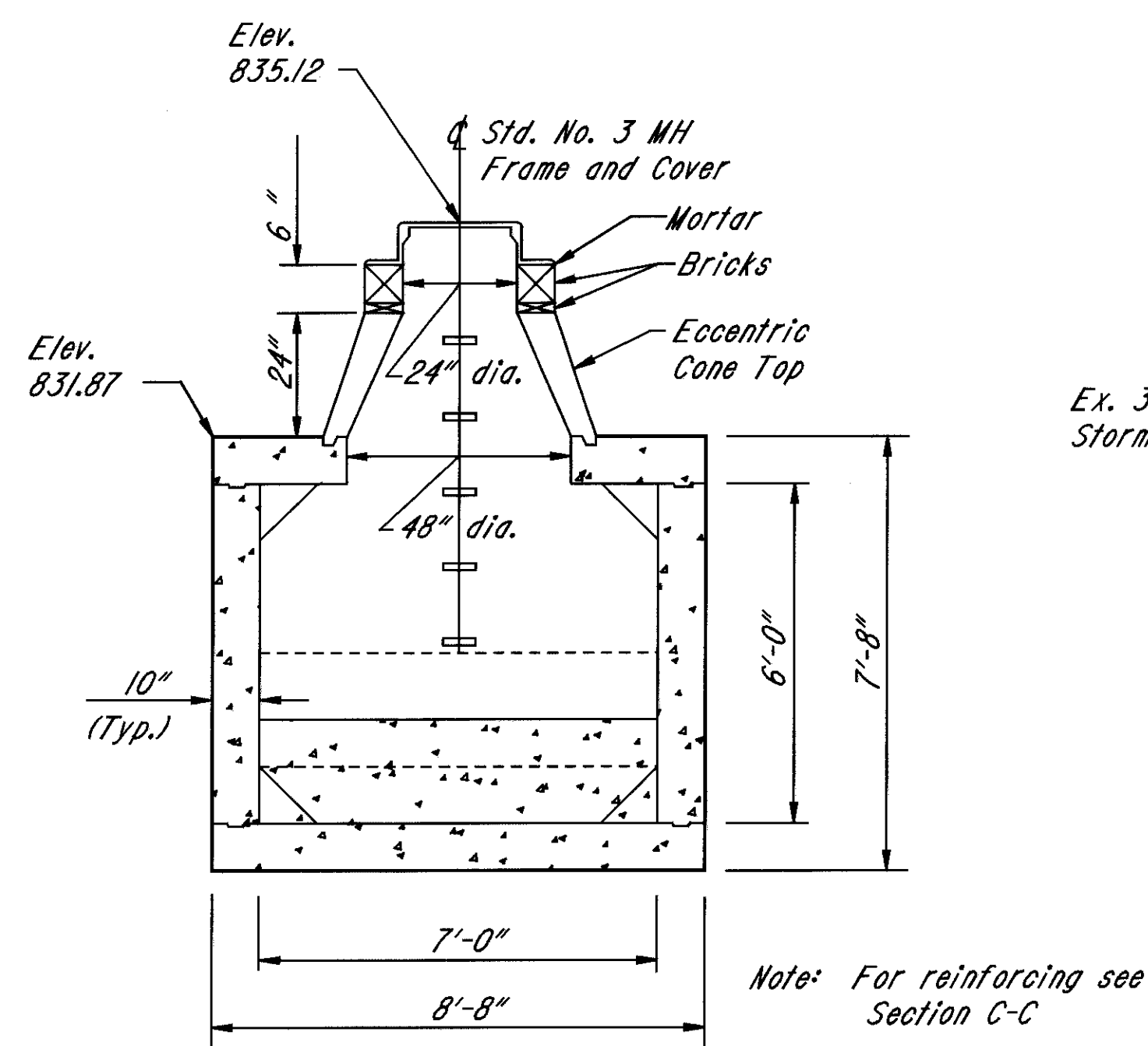
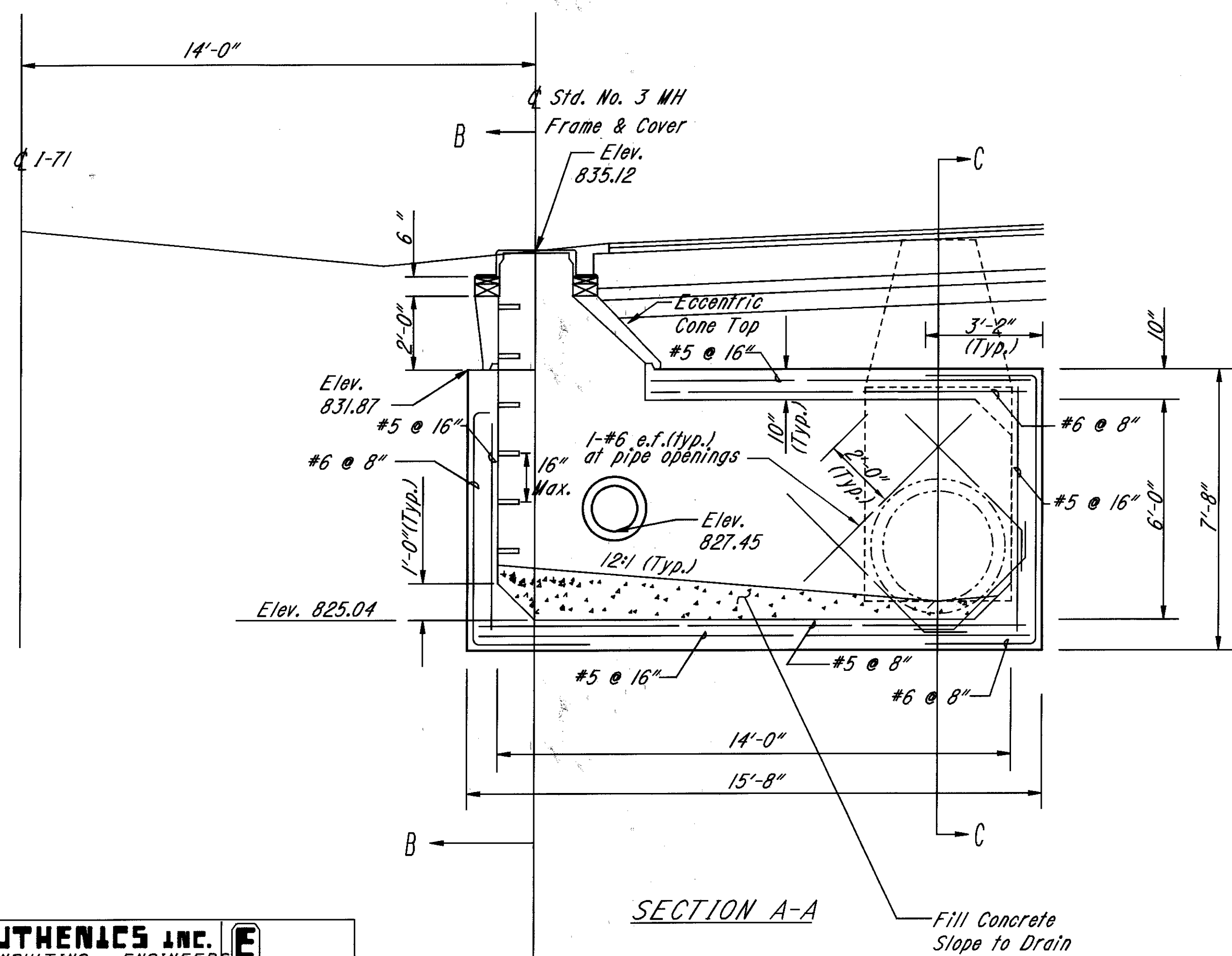
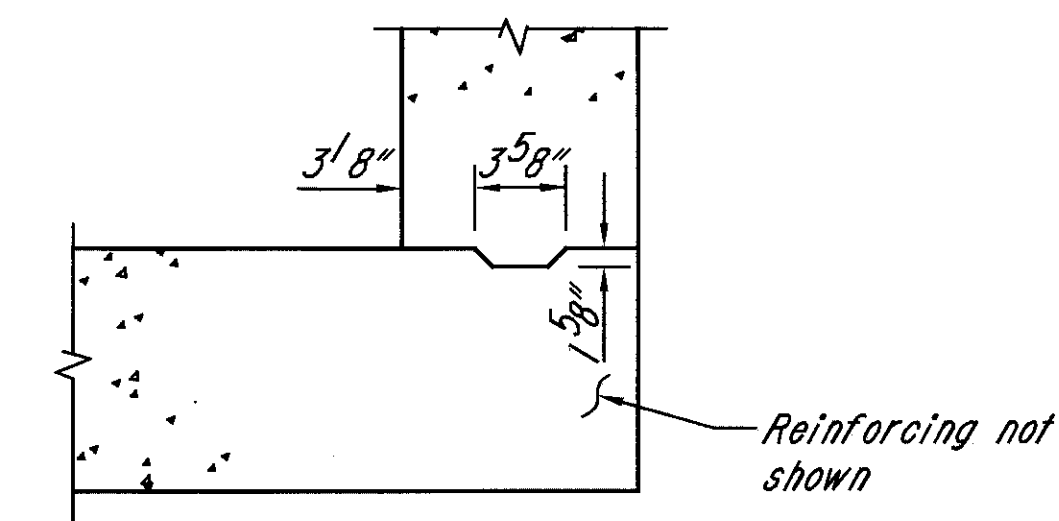


# JUNCTION CHAMBER AS PER PLAN, TYPE 2



- Existing To Be Removed.
- Existing To Remain.
- Proposed.

- Note:
1. See Std. Drawing MH-3 for Additional Details
  2. 2" Minimum Concrete Cover, except as noted.
  3. Constuction Joints are permissible at any location.
  4. This structure maybe cast-in-place, precast or a combination of both.
  5. All Junction Chamber boxes shall be constructed in accordance with the requirements of O.D.O.T. CMS Item 106.05.
  6. Cut reinforcement as required at openings.



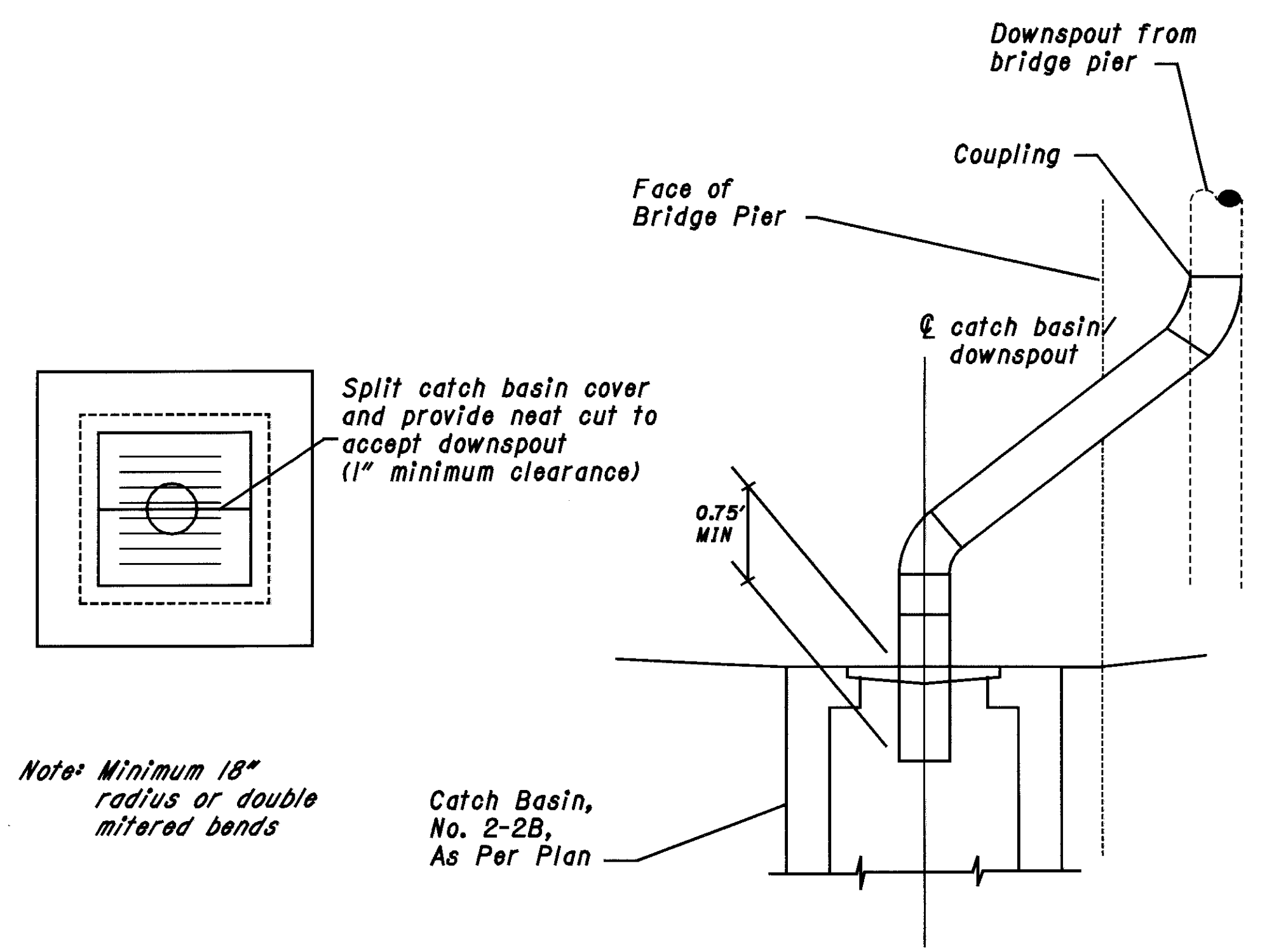
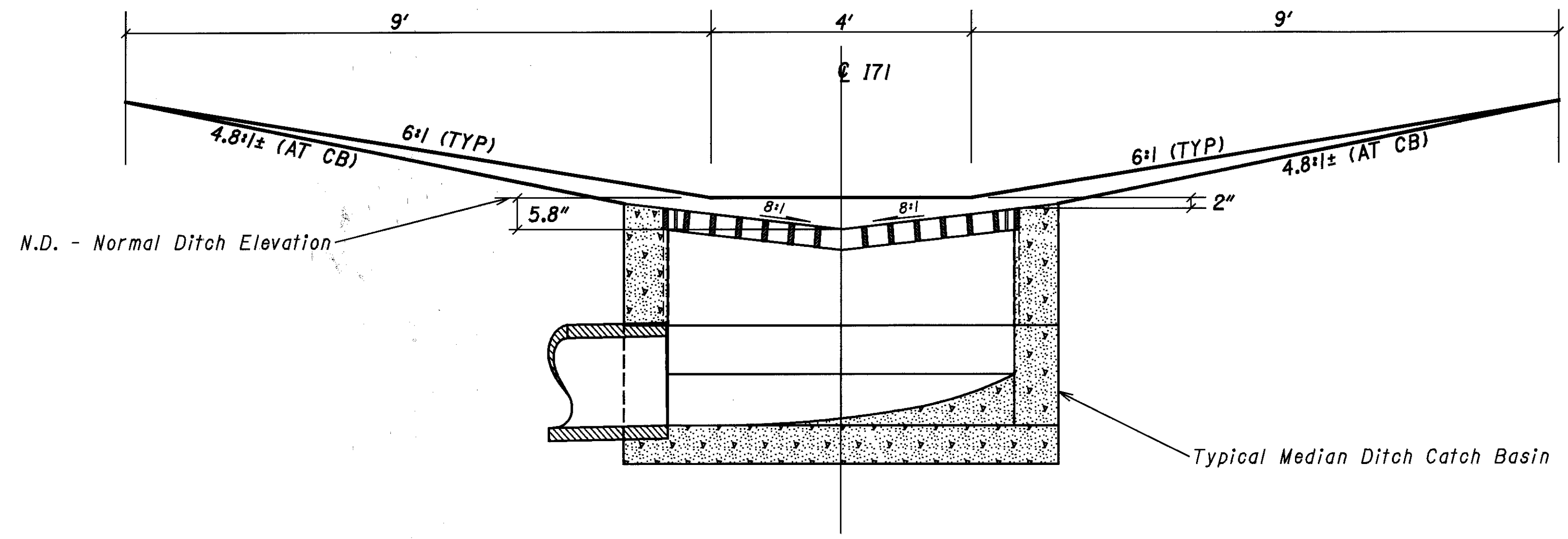
**EUTHENICS INC.**  
CONSULTING ENGINEERS  
CLEVELAND, OHIO

DESIGNED BY DATE: 11-94	CHECKED BY DATE: 12-12-94	DRAWN BY SCALE: 1/4" = 1'-0"
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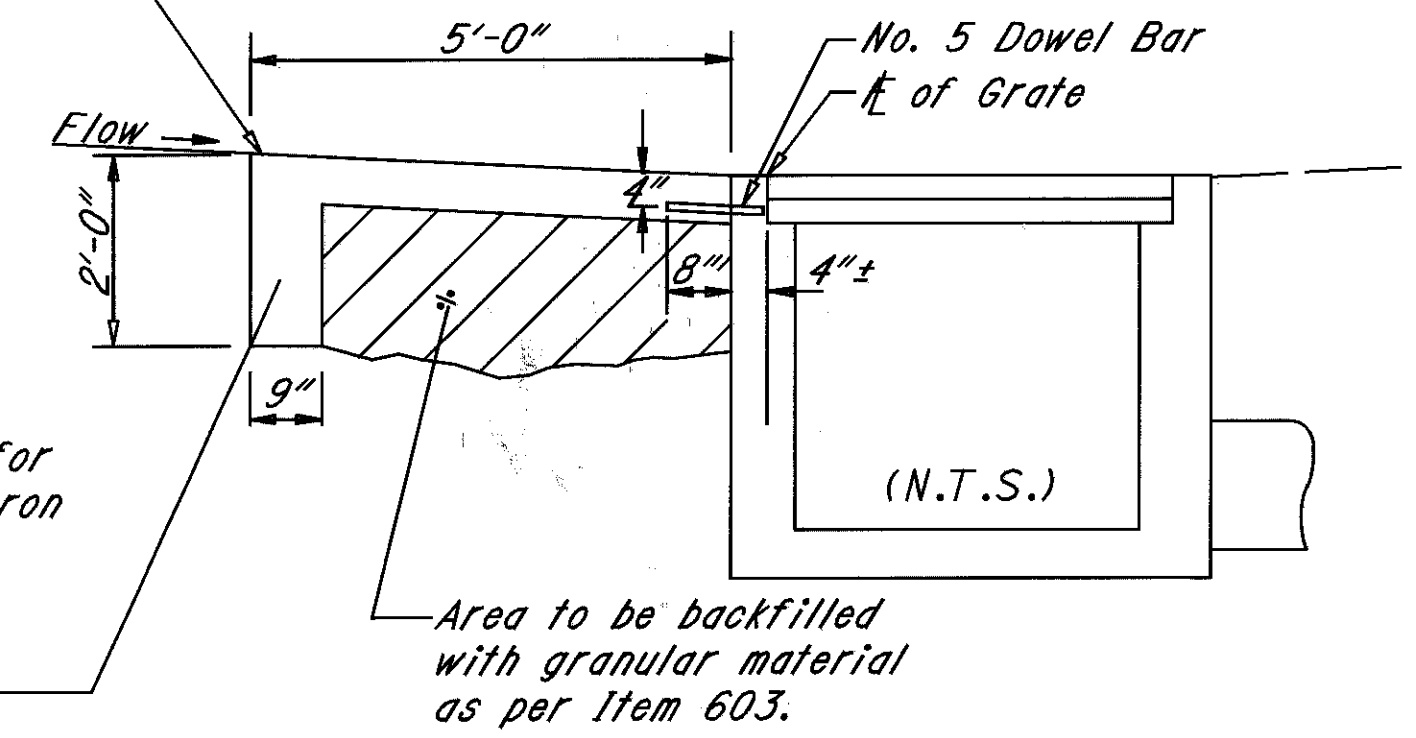
# MISCELLANEOUS DETAILS



Note: This detail shall be used for No. 4, No. 5 and No. 8 Catch Basins, as per plan. For details not shown see Std. Dwg. CB-4, CB-5, & CB-8.

## BAR LOCATION DETAIL CATCH BASIN NO. 4, 5, & 8, AS PER PLAN

For details not shown for concrete apron, see standard drawing for appropriate C.B.

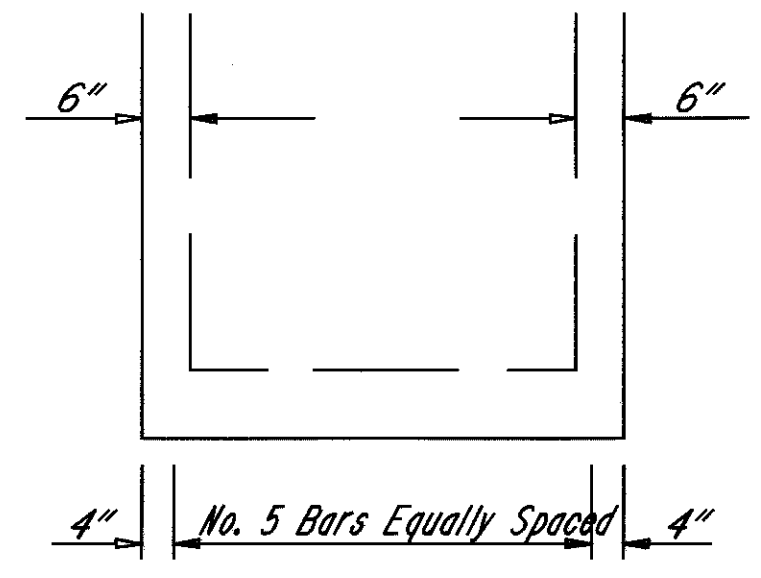


Provide a cut-off wall for the full width of the apron along the upstream side only. Two cut-off walls will be required for catch basin in sags.

The requirements of Item 604 shall govern the replacement of the existing Catch Basin. The work shall include the removal and disposal of the existing Catch Basin and its subsequent replacement. The concrete apron shall be replaced and backfilled as shown here and in the pertinent standard drawing.

The unit price for each catch basin shall include the replacement of any connecting sewer pipes damaged during the removal or installation of the basin. The new pipe shall match the material type of the existing pipe and shall meet the requirements of Item 603.

Payment for the above work shall be included in the unit bid price for Item 604 Catch Basin, No. 4, 5, or 8, as per plan, and shall constitute full compensation for furnishing all material, labor, tools, and equipment incidental to complete this item of work.



The number of bars needed along each side of a No. 4 Catch Basin with a concrete apron is 7. For a No. 5 & 8 Catch Basin the number of bars needed along each side with a concrete apron is 4.

CATCH BASIN NO.	TOTAL # OF BARS FOR A	
	STD. APRON	SAG APRON
4	7	14
5	12	16
8	12	16

The furnishing and placing of steel for the 5/8" x 12" dowel bars shall be per 509 reinforcing steel. The dowel bars shall be epoxy coated per 509.10. The dowel bars shall be installed per 510 or cast into the basin. Bolt or inserts may be used. The catch basin shall be precast or cast-in-place concrete, brick or concrete block will not be permitted. The 6" concrete apron shall be reinforced per 601.04(3).

## CATCH BASIN NO. 4, 5 & 8 AS PER PLAN

## CATCH BASIN AT OVERHEAD BRIDGE

### Item 604 - Catch Basin, No. 2-2B, As Per Plan

The unit bid price for this item shall include all of the modifications necessary to tie the existing downspouts into the proposed catch basin, as detailed above. The proposed downspout material shall match the material type of the existing downspout. This item shall also include any additional hardware necessary to securely attach the proposed downspout to the existing downspout. The connection method shall be approved by the project engineer prior to beginning work.

PLOT SUBMITTED: 05-AUG-1998 12:36  
 307MISC2.DGN  
 PLOTTED BY: fikonopka  
 PLOTTED: 12/03/94











