TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	PIER	N. ABUT.	SUPER.	TOTAL
203.0210.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-10-0051	LS	-----	-----	-----	-----	1
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 105+28	LS	-----	-----	-----	-----	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-10-0229	LS	-----	-----	-----	-----	1
210.0100	BACKFILL STRUCTURE	CY	100	-----	100	-----	200
502.0100	CONCRETE MASONRY BRIDGES	CY	37	38	37	168	280
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	-----	345	345
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2,360	1,790	2,360	-----	6,510
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1,850	-----	1,850	29,400	33,100
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	11	-----	11	-----	22
550.0500	PILE POINTS	EACH	6	8	6	-----	20
550.1100	PILING STEEL HP 10-INCH x 42 LB	LF	300	440	300	-----	1,040
606.0300	RIPRAP HEAVY	CY	50	-----	50	-----	100
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80	-----	80	-----	160
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	-----	2	-----	4
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	100	-----	110	-----	210
spv	Stainless Steel	LBS					14,300
	NON-BID ITEMS						
	FILLER	SIZE	-----	-----	-----	-----	½" & ¾"

(*) = Structure approach slabs

Width Factor = $\frac{40.9}{30.99} = 1.05$

Length Factor = $\frac{25}{68.75} = .36$

Area Factor = (.36)1.05 = .38

(2)(37)(1.05)(1.00)(39) + 112 (*) = 254 C.Y.

(345)(.38) + (2)(120)(.40)/9 = 310 C.Y.

1.05 = 6836

(1850)(2)(1.05) + (29400)(.38) + 18,440 (*) = 33,547

22 x 1.05 = 23

72 x 1.05 = 12.6 = 14

600 x 1.05 = 630

C-55-W9

Riprap 120 x 22 x 2 ÷ 27 = 195 use 200

Fabric 120 x 26 ÷ 9 = 358 360

Note: Structure approach slabs exceed deck area

Not required, this structure under 3500 Design ADT

3 sta

10/31/13

Project 7040-03-75 , Category 0020

203.0210.S	Abatement Asbestos Material (structure)01. B-10-0051	LS	1	1.00	1,800.00	$1,800.00	1.00	100.00%	$0.00	0.00	$0.00

Item No.	Description	Units	Authorized Quantity	Cumulative Quantity Paid To Date	Unit Price	Amount Paid To Date	Cumulative Total Qty Placed	%Complete	Stockpile Material Allowance	Quantity This Estimate	Amount This Estimate
Project 7040-03-75 , Category 0020											
203.0600.S	Rem Old Str Ovr Water-Min-Debris (sta)02. 105+28	LS	1	1.00	15,000 ~~25,000.00~~	15,000 ~~$25,000.00~~	1.00	100.00%	$0.00	0.00	$0.00
206.1000	Exc For Structure Bridges (structure)02. B-10-0229	LS	1	1.00	14,000.00	$14,000.00	1.00	100.00%	$0.00	0.00	$0.00
210.0100	Backfill StructureBackfill Structure	CY	200	159.00	18.00	$2,862.00	159.00	79.50%	$0.00	0.00	$0.00
502.0100	Concrete Masonry BridgesConcrete Masonry Bridges	CY	280	~~354~~ ~~280.00~~	650 ~~442.00~~	165,700 ~~$123,760.00~~	92,300 280.00	100.00%	$0.00	0.00	$0.00
502.3200	Protective Surface TreatmentProtective Surface Treatment	SY	345	310 ~~349.00~~	3.00	930 ~~$1,047.00~~	349.00	101.16%	$0.00	0.00	$0.00
505.0405	Bar Steel Reinforcement Hs BridgesBar Steel Reinforcement Hs Bridges	LB	6510	~~6,507.00~~ 6536	1.23	8410 $8,003.61	6,507.00	99.95%	$0.00	0.00	$0.00
505.0605	Bar Steel Reinf Hs Coated BridgeBar Steel Reinf Hs Coated Bridge	LB	33100	~~33,115.00~~ 15057 ~~33,554.7~~	1.23	41,260 ~~$40,731.45~~	18,520.11 33,115.00	100.05%	$0.00	0.00	$0.00
516.0500	Rubberized Membrane WaterproofingRubberized Membrane Waterproofing	SY	22	~~14.75~~ 23	40.00	920 ~~$590.00~~	14.75	67.05%	$0.00	0.00	$0.00
550.0500	Pile PointsPile Points	EACH	20	~~20.00~~ 14	100.00	1400 $2,000.00	20.00	100.00%	$0.00	0.00	$0.00
550.1100	Piling Steel Hp 10-inch X 42 LbPiling Steel Hp 10-inch X 42 Lb	LF	1040	~~933.60~~ 930	39.00	24,570 ~~$36,410.40~~	933.60	89.77%	$0.00	0.00	$0.00
606.0300	Riprap HeavyRiprap Heavy	CY	100	~~131.00~~ 200	~~45.00~~ 50	~~$5,895.00~~ 10,000	131.00	131.00%	$0.00	0.00	$0.00
612.0406	Pipe Underdrain Wrapped 6-inchPipe Underdrain Wrapped 6-inch	LF	160	148.00	6.00	~~$888.00~~ 960	148.00	92.50%	$0.00	0.00	$0.00
614.0150	Anchor Assemblies Stl Plate Beam GuardAnchor Assemblies Stl Plate Beam Guard	EACH	4	4.00	50.00	$200.00	4.00	100.00%	$0.00	0.00	$0.00

Estimate Detail for 20140610012 ; Estimate 0009 ; Pay Period Date 10/08/15

Item No.	Description	Units	Authorized Quantity	Cumulative Quantity Paid To Date	Unit Price	Amount Paid To Date	Cumulative Total Qty Placed	%Complete	Stockpile Material Allowance	Quantity This Estimate	Amount This Estimate
Project 7040-03-75 , Category 0020											
628.6005	Turbidity BarriersTurbidity Barriers	SY	50	49.00	37.80	$1,852.20	49.00	98.00%	$0.00	0.00	$0.00
645.0120	Geotextile Fabric Type HrGeotextile Fabric Type Hr	SY	210	~~265.00~~ 360	3.25	~~$861.25~~ 1170	265.00	126.19%	$0.00	0.00	$0.00
650.6500	Construction Staking Structure Layout02. B-10-0229	LS	1	1.00	1,000.00	$1,000.00	1.00	100.00%	$0.00	0.00	$0.00
715.0502	Incentive Strength Conc StructuresIncentive Strength Conc Structures	DOL	1680	0.00	1.00	$0.00	0.00	00.00%	$0.00	0.00	$0.00
805.5500	Pile SplicesPile Splices	DOL	1	1.00	351.00	$351.00	1.00	100.00%	$0.00	0.00	$0.00

stainless ~~steel~~ Rebar = 1430 x 3.35

~~$4649~~

291,580.5

use 295,000

-72,800

-4,640

-22,740

194,850

$195,000

Project ID : 8949-04-08
Title : BALDWIN - MENOMONIE
Region : NORTHWEST

Route : USH 012
Sub Title : CULVERTS C-55-9001, 9002 & 0014
County : ST. CROIX

Structure # 3

Existing Structure

Existing structure ID	
Existing structure type	
Year constructed	
Latest year of rehab	
Current condition	
Bridge sufficiency number	
Rate score	
Vertical clearance	
Clear roadway width	
Last inspection date	
Posted load rating	
Inventory rating	
Feature on	
Feature over/under	
Location	
Existing Skew	
Existing Structure Sq/FT	

Existing Utilities

Existing Lighting

Proposed Structure Work

Proposed structure work **	Box Culvert - Multi Cell
Related Construction Project ID	8949-04-78
Proposed structure ID	C-55-0039
Spans or Cells	2
Proposed aesthetic value **	No aesthetics
Skew	Not on Skew
Widening	No Widening
Curved Superstructure	Not Curved or Tapered
Twin Structure	
✓ **Structure Survey Report**	
Steel Tub Girders	

old C-55-14

Super Elevation Transition on Structure	
Non-Standard Pier (Straddle bent, integral cap)	
Utility/Lighting Accommodation	
Sign Structure Mounted on Structure	
Raised Sidewalks	
Bridge Painting (with other structure work)	
Tapered Superstructure	
Staged Construction	
Structural approach slab	
BOS Estimated Design Hours	150
Estimated structure cost	$ 200,000

Proposed Utilities

Proposed Lighting

Additional Information

Additional work required	
Approach slabs	
Approach work	
Canoe/boat landing	
Consultant design structure	
Dam	
Existing foundations	
Fisherman's platform	
Gauging station (USGS)	
High cost bridge	
Pedestrian/bike lanes	
Snowmobiles	

Comments

C-55-0039 is replacing C-55-0014 located 0.6 miles ~~east~~ of 70th Ave.

0.2 west of 260th St.

Last updated by HARRIS, KYLE J on 04/09/2015

ENGINEER'S ESTIMATE / Q2P WORKBOOK

PROJECT MANAGER: RICHARD SHERMO

CONSTRUCTION COST ESTIMATE
6/9/2015 $133,209.06

CONST. I.D.: 8949-04-78
TITLE: BALDWIN - MENOMONIE
LIMITS: CULVERTS C-55-0037, 0038, & 0039
HIGHWAY: USH 12
COUNTY: ST. CROIX
PROGRAM CODE: 303 STATE HIGHWAY REHABILITATION
CONCEPT CODE: RESURF RESURFACING

PSE Date:
Let Date:
NET C/L MILES: 0.130

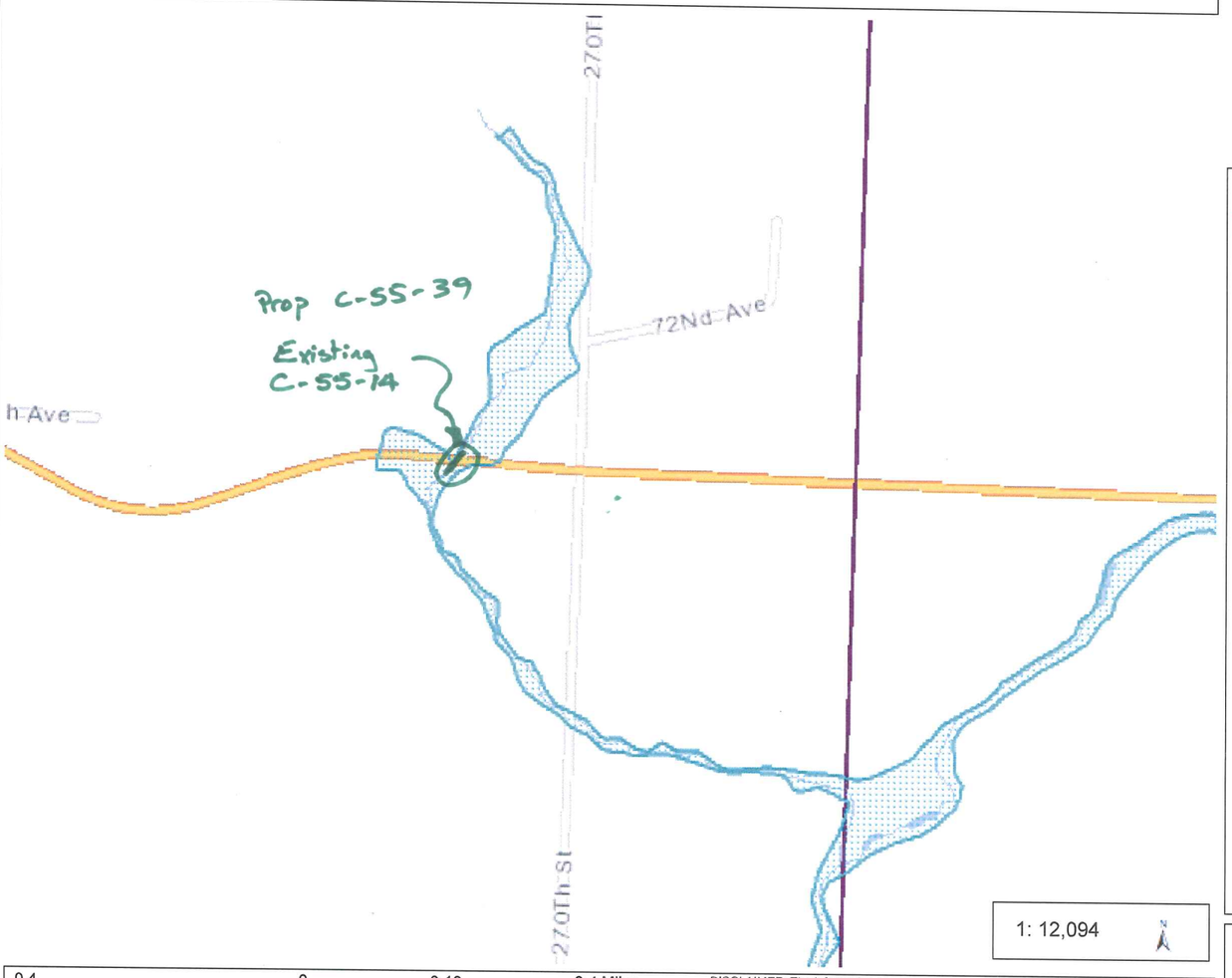
SCHEDULE OF BID ITEMS WISDOT STANDARD SPECIFICATIONS 2015 EDITION

TOTAL BID ITEMS: 40

	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	COST
203.0200	REMOVING OLD STRUCTURE (130+21, C-55-0014)	1	LS	$2,000.00	$2,000.00
204.0100	REMOVING PAVEMENT	222	SY	$5.00	$1,111.11
204.0110	REMOVING ASPHALTIC SURFACE	600	SY	$4.00	$2,400.00
205.0100	EXCAVATION COMMON	3200	CY	$12.00	$38,400.00
211.0100	PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT)	1	LS	$5,000.00	$5,000.00
305.0110	BASE AGGREGATE DENSE 3/4-INCH	60	TON	$20.00	$1,200.00
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	60	TON	$30.00	$1,814.81
305.0500	SHAPING SHOULDERS	10.8	STA	$100.00	$1,080.00
455.0605	TACK COAT	2.5	GAL	$15.00	$37.50
465.0105	ASPHALTIC SURFACE	36	TON	$145.00	$5,252.63
465.0115	ASPHALTIC SURFACE DETOURS	100	TON	$120.00	$12,000.00
522.0160	CULVERT PIPE REINFORCED CONCRETE CLASS III 60-INCH	70	LF	$175.00	$12,250.00
522.1060	'RON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60-IN	2	EACH	$2,500.00	$5,000.00
606.0200	RIPRAP MEDIUM	7.78	CY	$60.00	$466.67
614.2300	MGS GUARDRAIL 3	200	LF	$18.00	$3,600.00
614.2610	MGS GUARDRAIL TERMINAL EAT	4	EACH	$2,500.00	$10,000.00
619.1000	MOBILIZATION	1	EACH	$6,000.00	$6,000.00
625.0500	SALVAGED TOPSOIL	1400	SY	$1.75	$2,450.00
628.1504	SILT FENCE	700	LF	$2.00	$1,400.00
628.1520	SILT FENCE MAINTENANCE	700	LF	$0.34	$238.00
628.1905	MOBILIZATIONS EROSION CONTROL	1	EACH	$200.00	$200.00
628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	1	EACH	$150.00	$150.00
628.2004	EROSION MAT CLASS I TYPE B	1400	SY	$1.50	$2,100.00
628.7504	TEMPORARY DITCH CHECKS	100	LF	$7.25	$725.00
628.7555	CULVERT PIPE CHECKS	2	EACH	$20.00	$40.00
629.0210	FERTILIZER TYPE B	1.59	CWT	$100.00	$158.76
630.0120	SEEDING MIXTURE NO. 20	45	LB	$11.00	$498.96
630.0200	SEEDING TEMPORARY	68	LB	$4.00	$272.16
633.5200	MARKERS CULVERT END	2	EACH	$40.00	$80.00
634.0416	POSTS WOOD 4X4-INCH X 16-FT	1	EACH	$75.00	$75.00
634.0805	POSTS TUBULAR STEEL 2X2-INCH X 5-FT	4	EACH	$100.00	$400.00
637.2210	SIGNS TYPE II REFLECTIVE H	18	SF	$17.00	$310.25
638.2602	REMOVING SIGNS TYPE II	5	EACH	$125.00	$625.00
642.5001	FIELD OFFICE TYPE B	1	EACH	$2,000.00	$2,000.00
645.0120	GEOTEXTILE FABRIC TYPE HR	16	SY	$6.00	$93.33

Checked By:
Date:

Surface Water Data Viewer Map



Legend

- 1% Annual Chance Flood Haz
- 0.2% Annual Chance Flood Ha
- Cross Sections
- Floodway
- Base Flood Elevations
- FIRM Panel Index
- Rivers and Streams
- Open Water

1: 12,094

Notes

0.4 0 0.19 0.4 Miles

NAD_1983_HARN_Wisconsin_TM

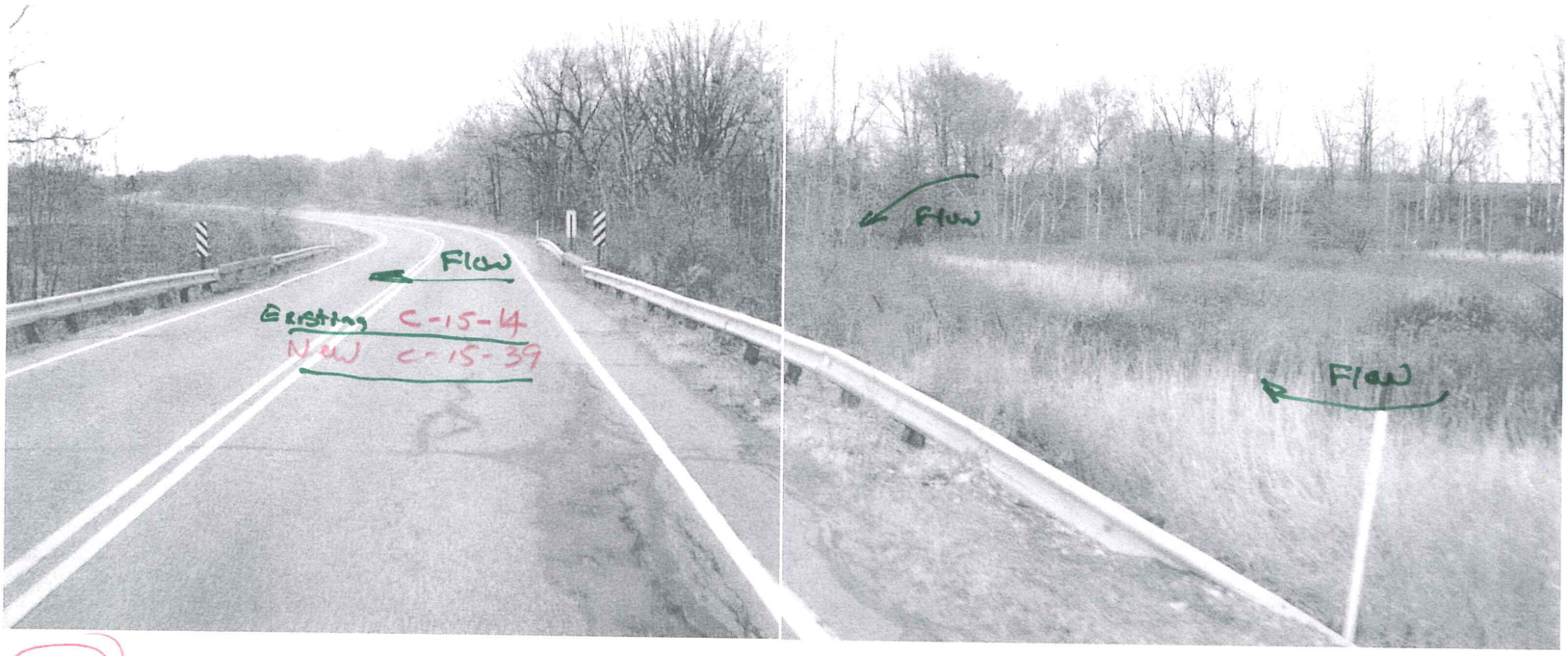
route: 012E county: ST. CROIX date: 11/06/2013 plm: 024.040

Lat: 44.95943086 Long: -92.26258384 Elev: 1065.5 ft.

\\doteauplog1p\photolog\RG5\012E_R5_2013\\Front\Dir_024\F_02430.jpg

Existing C-55-M
New C-55-39

C-



route: 012W county: ST. CROIX date: 11/05/2013 plm: 116.129

Lat: 44.95943666 Long: -92.26144753 Elev: 1064.04 ft.

\\doteauplog1p\photolog\RG5\012W_R5_2013\\Front\Dir_119\F_11915.jpg

route: 012E county: ST. CROIX date: 11/06/2013 plm: 024.080

Lat: 44.95941335 Long: -92.26177 Elev: 1065.16 ft.

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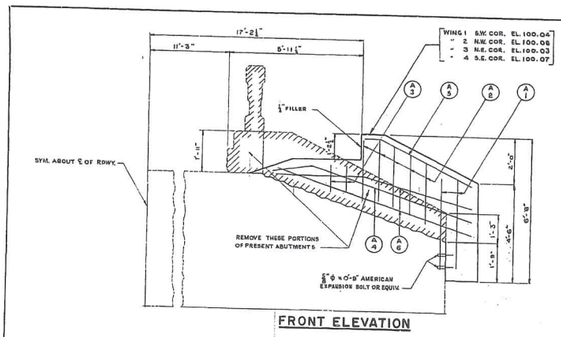
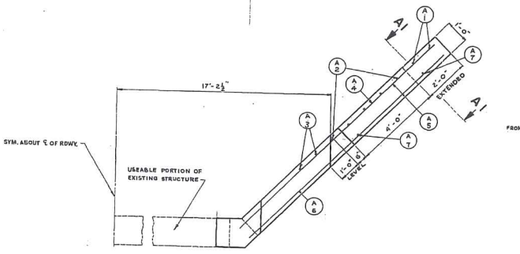
Downstream
Eroded

C-55-2014

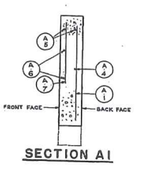
Prop C-55-39



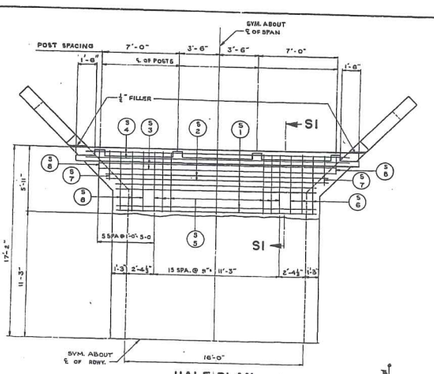
FRONT ELEVATION



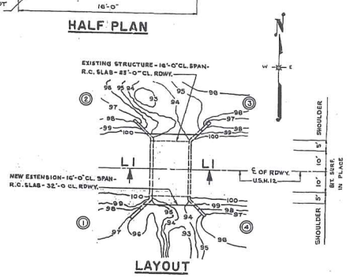
PLAN



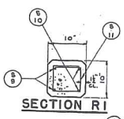
SECTION A1



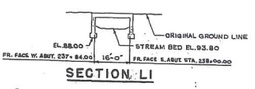
HALF PLAN



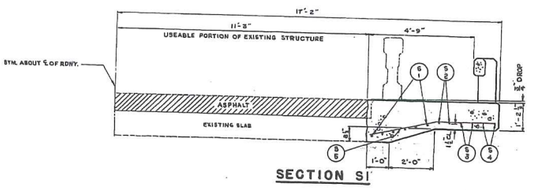
LAYOUT



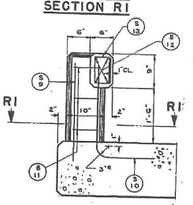
SECTION R1



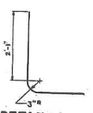
SECTION L1



SECTION S1



CONCRETE RAILING DETAIL



DETAIL A

COUNTY & HIGHWAY	ROUTE & SECTION	CLEARS & AGREEMENT STATE	CLEARS & AGREEMENT FEDERAL	B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
55.1	6.4	23.44		4	TOG-4(4-1)	11	12

BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT

SUPERSTRUCTURE 2110 LBS

POUR	MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET.
SLAB	S1	12	8	18-0	6	FLOOR, LONG.	
	S2	4	8	20-0	6	" "	
	S3	4	8	22-0	6	" "	
	S4	4	8	24-0	6	" "	
	S5	32	5	5-9	9	" TRANS.	
	S6	12	4	5-9	1-0	" "	
	S7	4	4	3-0	1-0	" "	
	S8	4	4	2-3	1-0	" "	
RAILING AND CURBS	S9	16	5	3-0	SHOWN	RAILING POST	
	S10	16	5	3-6	SHOWN	" "	A
	S11	24	3	3-0	SHOWN	" " BEND IN FIELD	
	S12	8	5	24-0	SHOWN	RAILING	
	S13	80	8	2-3	1-0	" BEND IN FIELD	

ABUTMENTS

POUR	MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET.
BODY AND WINGS	A1	8	4	4-0	1-0	WINGS, VERT., BACK FACE	
	A2	20	4	3-0	1-0	" " " "	
	A3	8	4	11-8	1-0	" " " "	
	A4	4	4	11-9	SHOWN	" HORIZ. " "	
	A5	8	5	6-3	SHOWN	" " BOTH FACES	
	A6	6	4	12-3	SHOWN	" " FRONT FACE	
	A7	8	4	3-0	SHOWN	" VERT. " "	

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
CONCRETE MASONRY SHALL BE GRADE "AA" FOR ABUTS. AND SUPER.
BEVEL EXPOSED EDGES OF CONCRETE 1" UNLESS OTHERWISE SHOWN OR NOTED.
REINFORCING STEEL SHALL BE IMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
THE USE OF STRUCTURAL GRADE BAR STEEL REINFORCEMENT IS PROHIBITED.
CONCRETE MASONRY SHALL BE GRADE "X" FOR RAILING AND POSTS.
PRESERVE ALL EXPOSED BAR STEEL REINFORCEMENT IN EXISTING STRUCTURE AND EXTEND INTO NEW WORK.

†THE DESIGN OF THIS STRUCTURE IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, A.A.S.H.O., EDITION OF 1953.

ESTIMATED QUANTITIES

BID ITEMS

EXCAVATION FOR STRUCTURES	20 C.Y.
CONCRETE, MASONRY, GRADE "AA"	115.0 C.Y.
CONCRETE MASONRY, GRADE "X"	1.0 C.Y.
BAR STEEL REINFORCEMENT	2110 LB.

NON-BID ITEMS

⅝" ϕ AMER. EXPAN. HOOK BOLTS OR EQUIV.	8 REQ'D.
EXPANSION JOINT FILLER	½ SIZE

STATE HIGHWAY COMMISSION OF WISCONSIN

DETAILS

CO. ST CROIX | MAP No. T. | BALDWIN | STA. 237+92.00

BRIDGE 28-36 | TOWN 29 N | RANGE 16 W

DATE 7-12-56 | SHWY. DAN. | CKD. RMC | SPACE 1957 | LAYOUT 20-56

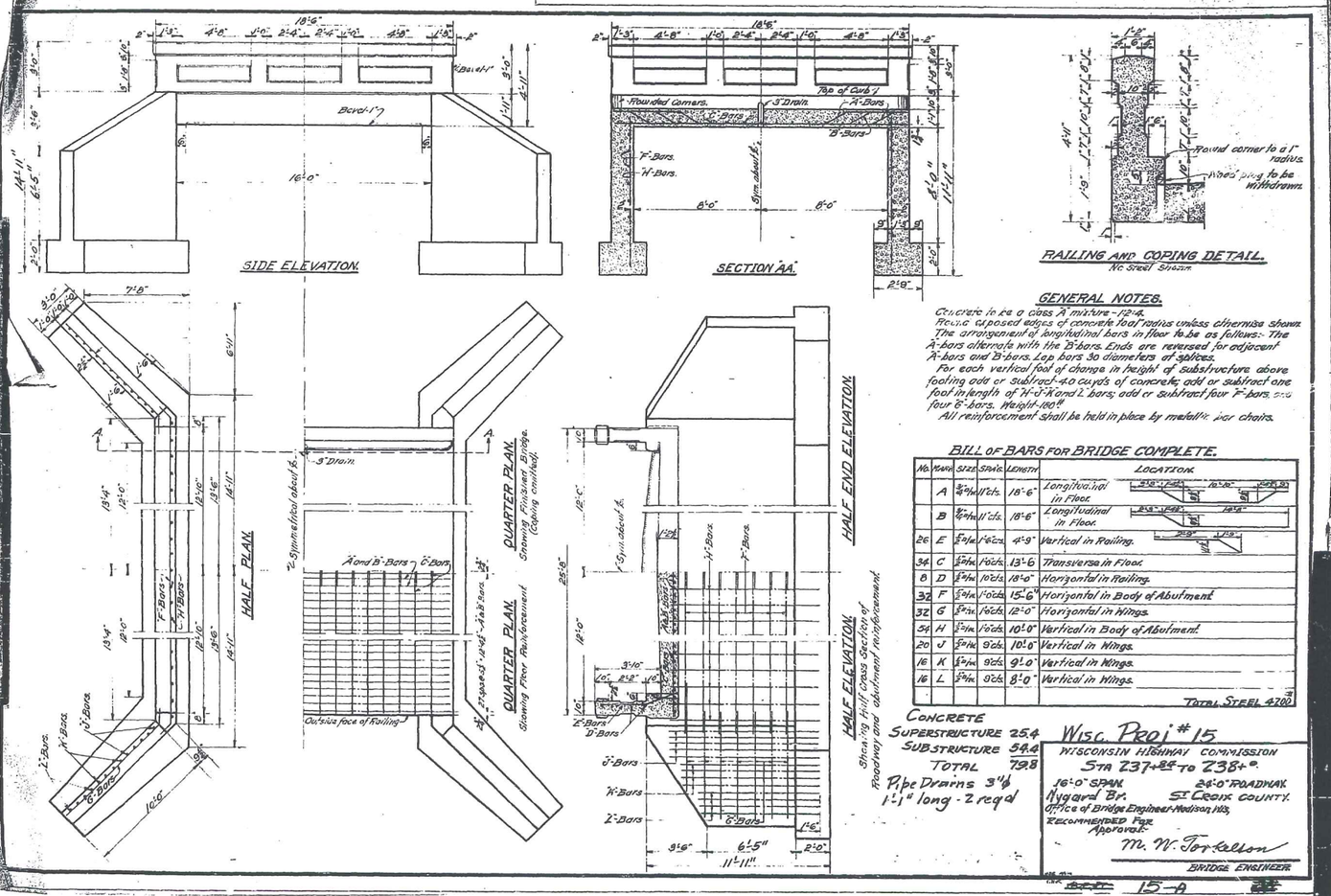
CORRECT: H.B. Schaaf
STATE HIGHWAY ENGINEER

APPROVED: E.G. Ruthven
STATE BRIDGE ENGINEER

STRUCTURE C-55-14 | SHEET 1 OF 1

X 15774

widening 1957



GENERAL NOTES.

Concrete to be a class A mixture - 1:2:4.
Finish exposed edges of concrete 1/2" radius unless otherwise shown.
The arrangement of longitudinal bars in floor to be as follows:- The A-bars alternate with the B-bars. Ends are reversed for adjacent A-bars and B-bars. Lap bars 30 diameters of splices.
For each vertical foot of change in height of substructure above footing add or subtract 4.0 cuyds of concrete; add or subtract one foot in length of H-bars and L-bars; add or subtract four F-bars and four E-bars. Weight - 180#.
All reinforcement shall be held in place by metallic bar chairs.

BILL OF BARS FOR BRIDGE COMPLETE.

No.	Mark	Size	Shape	Length	Location
	A	5/8" sq.	Straight	18'-6"	Longitudinal in Floor.
	B	5/8" sq.	Straight	18'-6"	Longitudinal in Floor.
26	E	5/8" sq.	Bent	4'-9"	Vertical in Railing.
34	C	5/8" sq.	Straight	13'-6"	Transverse in Floor.
8	D	5/8" sq.	Straight	18'-0"	Horizontal in Railing.
32	F	5/8" sq.	Straight	15'-6"	Horizontal in Body of Abutment.
32	G	5/8" sq.	Straight	12'-0"	Horizontal in Wings.
54	H	5/8" sq.	Straight	10'-0"	Vertical in Body of Abutment.
20	J	5/8" sq.	Straight	10'-0"	Vertical in Wings.
16	K	5/8" sq.	Straight	9'-0"	Vertical in Wings.
16	L	5/8" sq.	Straight	8'-0"	Vertical in Wings.

Total Steel 4700

CONCRETE
SUPERSTRUCTURE 254
SUBSTRUCTURE 544
TOTAL 798

Pipe Drains 3" ϕ
1'-1" long - 2 reqd

Wisc. Proj. # 15
WISCONSIN HIGHWAY COMMISSION
Sta 237+85 to 238+°.
16'-0" SPAN 26'-0" ROADWAY.
Nygaard Br. St Croix COUNTY.
Office of Bridge Engineer-Madison, Wis.
Recommended For Approval.
M. N. Torkelson
BRIDGE ENGINEER

15-A

C-55-14?

1921

C-55-39

L = 4,400' +/-

H = 1265 - 1163 = 102' +/- (As-built)

A = 3.5 Acres +/-

L_1 = 1500' H_1 = 65' L_2 = 2900' H_2 = 37'

Avg. Slope = $\frac{65+37}{1500+2900} \times 100 = 2.3\%$

Tc = $\frac{4400}{102}$ => 21 min ← Channel

× 2 Grassed Surface

Tc 42 minutes → overland

C = .21

$\frac{100}{150} = \frac{3.6}{3.3}$

overland Q_{50} = (3.5)(3.3)(.21) = 2.18 cfs

Q_{100} = 2.38 cfs } overland

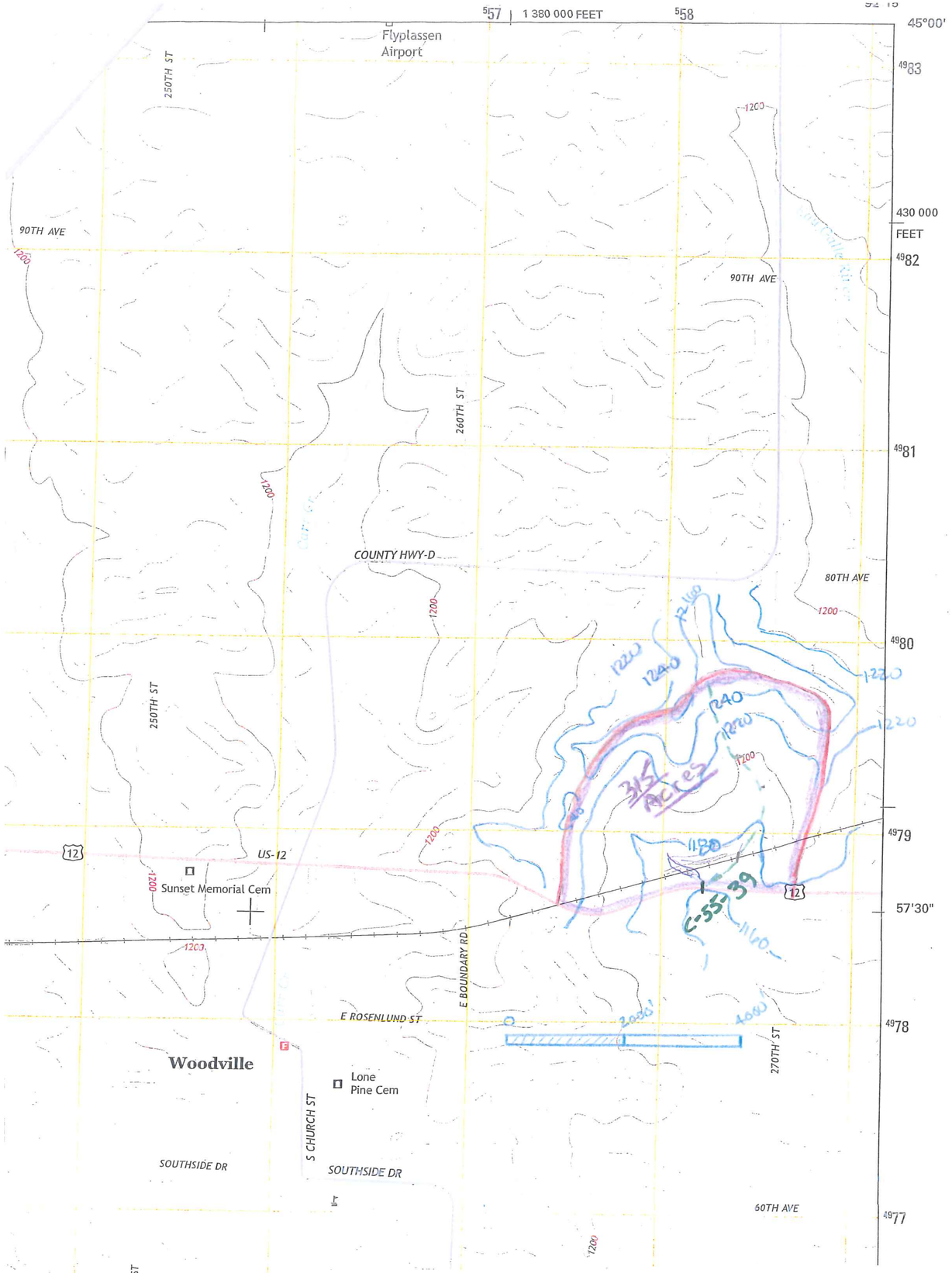
Channel $I_{50} = 4.8$

$I_{100} = S_0$ Q_{50} = 3.5(4.7)(2.1) = 3.11 cfs

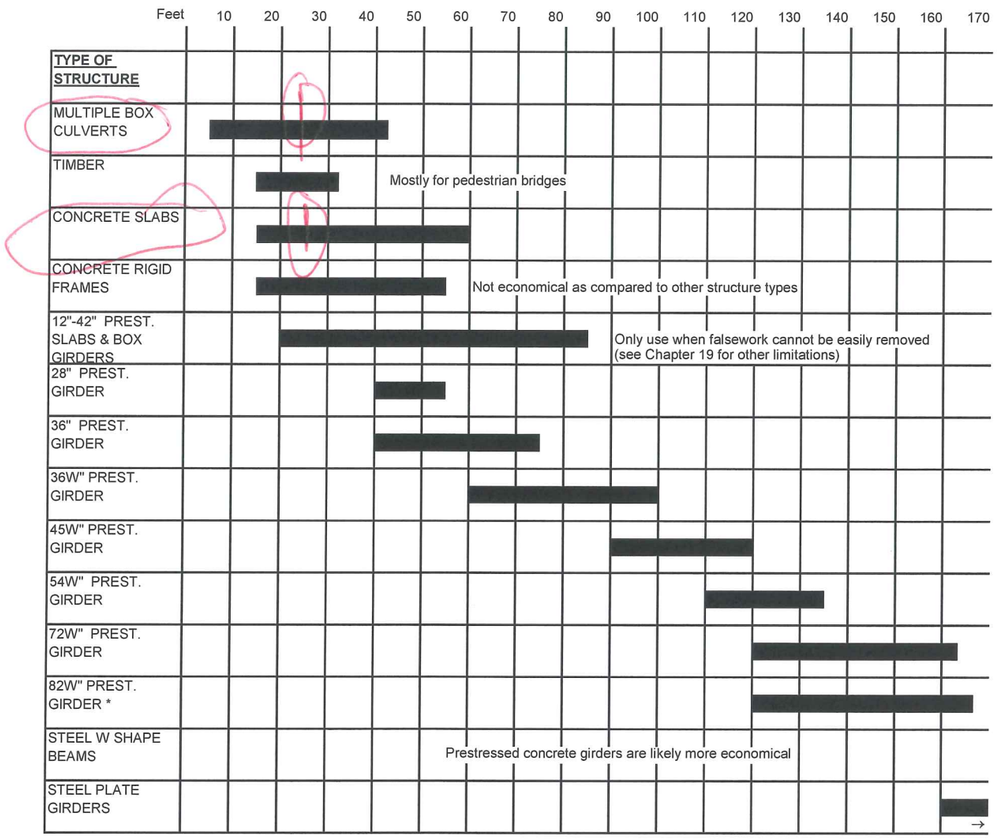
Q_{100} = 33 cfs } Channel

Above for preliminary assessment of flow, based on rational method, for determining ability to replace w/ pipes => do not use for design.

Assume box culvert or bridge => actual flow => size based on flood/hydraulic analysis.


557
1 380 000 FEET
558
45°00'
4983
Flyplassen Airport
250TH ST
1200
430 000 FEET
90TH AVE
4982
90TH AVE
260TH ST
4981
COUNTY HWY-D
80TH AVE
4980
1220
1240
315 ACRES
1180
US-12
Sunset Memorial Cem
4979
57'30"
E BOUNDARY RD
E ROSENLUND ST
2050'
4000'
4978
Woodville
Lone Pine Cem
270TH ST
S CHURCH ST
SOUTHSIDE DR
SOUTHSIDE DR
60TH AVE
4977

5.2 Economic Span Lengths



*Currently there is a moratorium on the use of 82W" prestressed girders in Wisconsin

Figure 5.2-1
Economic Span Lengths

Bridge

B.M. #28-X Chiseled on North end of West Abut
Elev = 1163.17

Move Fences back to Property Line

LARS NYGAARD

ASSUMED R-P-RAP LIMITS

299 +50 300 +50 301 +50 302 +30+78.55 303 304 305 306+50 307 308 309 310 P.E. 311 312 313 +50 314

S. 86° 08' E.

16 Span 24' Rdy Conc Slab Bridge - Old Std.
To remain in place

JOHN P. MOE

Curve Data
P.I. 300+53.2
Δ = 19° 11'
D 4° CR
Tan = 229.23
L = 454.58
R = 1432.5

Superelevate ½" Per Ft.

House

Pole

Sta 314

Net length of ℄ Sta. 300+00 to Sta. 323+00 = 2300 ft.
Net length of ℄ Sta. 323+00 to Sta. 330+00 = 700 ft.

Sta. 298-302+78.55
Cut = 394 C.Y. Fill = 315 C.Y.

Sta. 302+78.55-310 Cut = ~~486~~ 486 C.Y.
Fill = 427 C.Y.

Shrinkage Allowance 20%

Sta. 310-312
Cut = 189 C.Y. Fill
= 128 C.Y. Haul
= ~~95~~ C.Y. back to
Sta. 305-306

Sta. 312-318+4
Fill =

Sta. 303+26 ℄ 16' Span 24' Rdw'y Conc. Slab Bridge in place. Standard.

Note:- Pavement to be widened to width of roadway of bridge.

1.7' to Water 10/22/15
4.2' to Water 10/22/15
2.3' to streambed

-1.5% 0.0% +2.8%

P.C. Sta. 300+16.62 El. 1639.01
Sta. 301+16.62 P.I. El. 1620
P.T. Sta. 301+16.62 El. 1620.00
Sta. 306+25 El. 1620.00
Sta. 307+25 El. 1620.00
Sta. 308+25 El. 1624.90
Sta. 313+50.31 El. 1776.93
Sta. 313+39.31 El. 1779.03
Sta. 314+06.31 El. 1778.76

200' V.C.
200' V.C.
150' V.C.

STANDARD GUARD RAIL REQ'D TYPE "C"
Sta. 302+84 to Sta. 303+16 Both Sides 8 Posts
Sta. 316+50 to Sta. 318+38 " " " 28 "

Int
Sta 312
Sta 319

1180
1170
1160
1150

	299	+50	300	+50	301	+50	302	+30	303	+35	+42	304	305	306	+50	307	308	309	310	311	312	313	+50	314
	1635	1650	1641	1632	1629	1625	1625	1625	1625	1620	1620	1627	1625	1624	1625	1629	1646	1673	1700	1727	1756	1785	1795	1799
	1632	1645	1637	1630	1625	1621	1617	1620	1620	1632	1631	1620	1620	1620	1620	1623	1644	1669	1697	1725	1753	1779	1778	1778

Move Fences back to Property Line

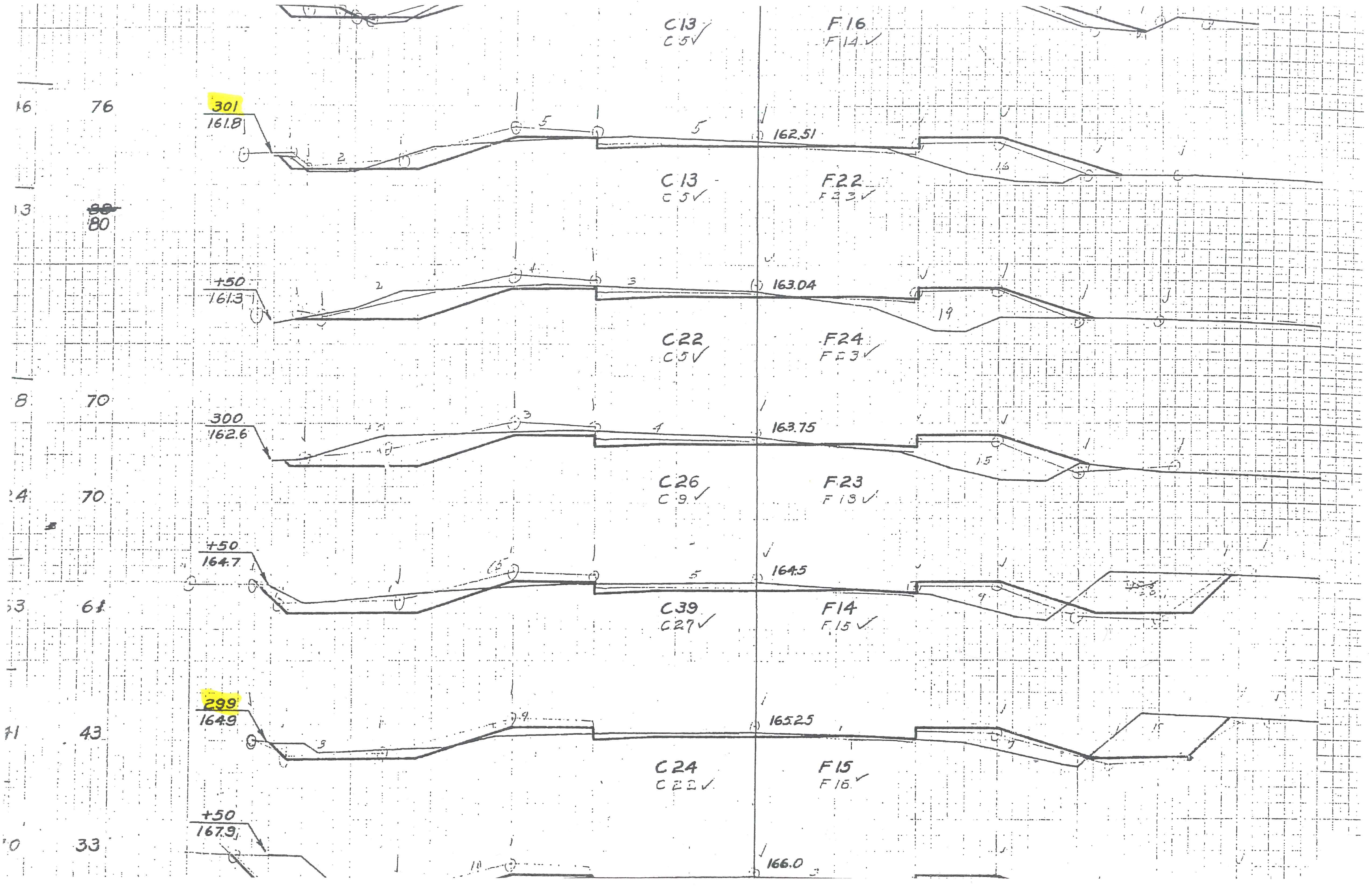
N

B.M. #31 Spike in Tel. Pole #1838

36"-48"-28' Conc. Culv. in place - Old Std.

RT. OF WAY CHECKED

No. 3744


C13
C5✓
F16
F14✓
16 76
301
161.8
5
5
162.51
2
C13
C5✓
F22
F23✓
13 80
+50
161.3
2
4
3
163.04
19
C22
C5✓
F24
F23✓
8 70
300
162.6
3
4
163.75
1.5
24 70
C26
C9✓
F23
F13✓
+50
164.7
5
164.5
9
63 61
C39
C27✓
F14
F15✓
299
164.9
9
3
165.25
7
15
41 43
C24
C22✓
F15
F16✓
+50
167.9
10
166.0
0 33

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR
4	WISC.	[illegible]/55	

WISCONSIN PROJECT NO.

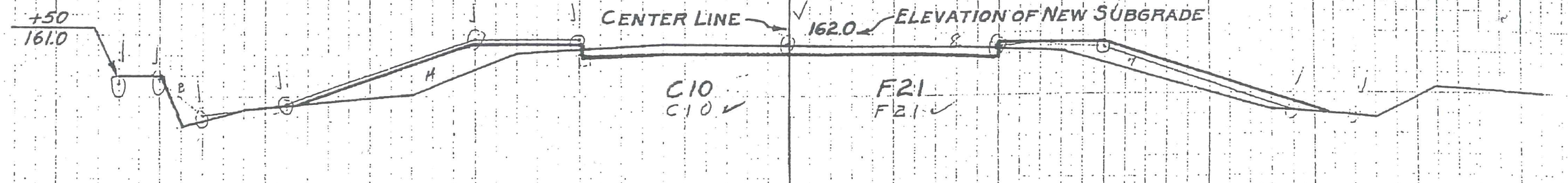
DIVISION JOB NO.

ARDAGE

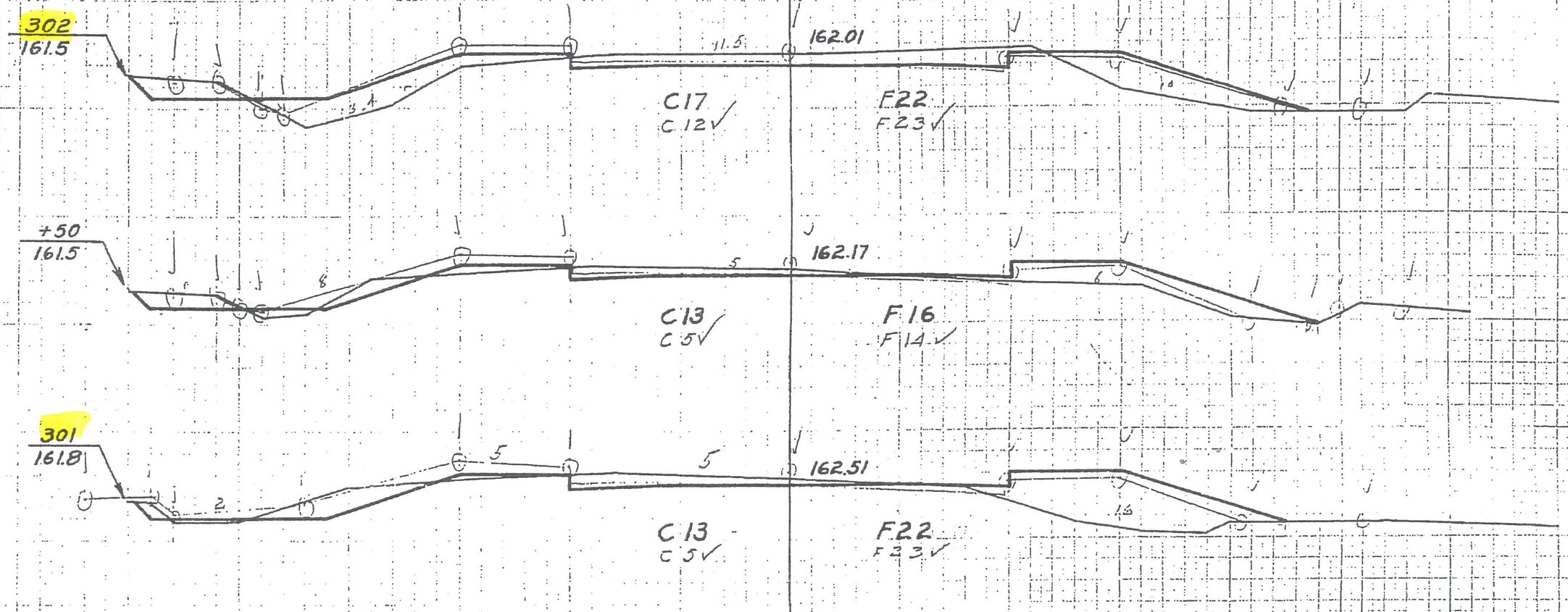
T FILL

YA

C



~~38~~ 33



46

59

76

~~80~~ 80

162.0

C10
C 9V

F35
F 27V

304
1590

3.0

+42
163.0
162.0

6

C18
C 15V

+35
163.1
162.0

F0
F 19V

15

C19V

+17
163.2
162.0

F0V

Engr

13

C25V

F0V

162.0

303
160.1

C17
C 15V

F28
F 22V

13

+78 SS
160.0

162.0

C15
C 11V

F19
F 15V

13

COL. TOTAL

293

3

307
162.0

162.39

C16
17
C14 ✓

F11
F14 V

30

+50
161.0

162.04

C13
14
C5 V

F15
F22
F27

25
22

306
161.2

162.0

C12
13
C8 V

F14
F22 V

41
39

305
160.3

162.0

C9
C7 V

F26
F28 V

35

304
159.0

162.0

C10
C9 V

F35
F27 V

30

+42
163.0

162.0

6

+35