

Bremer\Chickasaw\Floyd COUNTY NHSX-218-8(141)--3H-09
HMA Resurfacing with Milling
LETTING DATE
Oct 19 2021



Highway Division

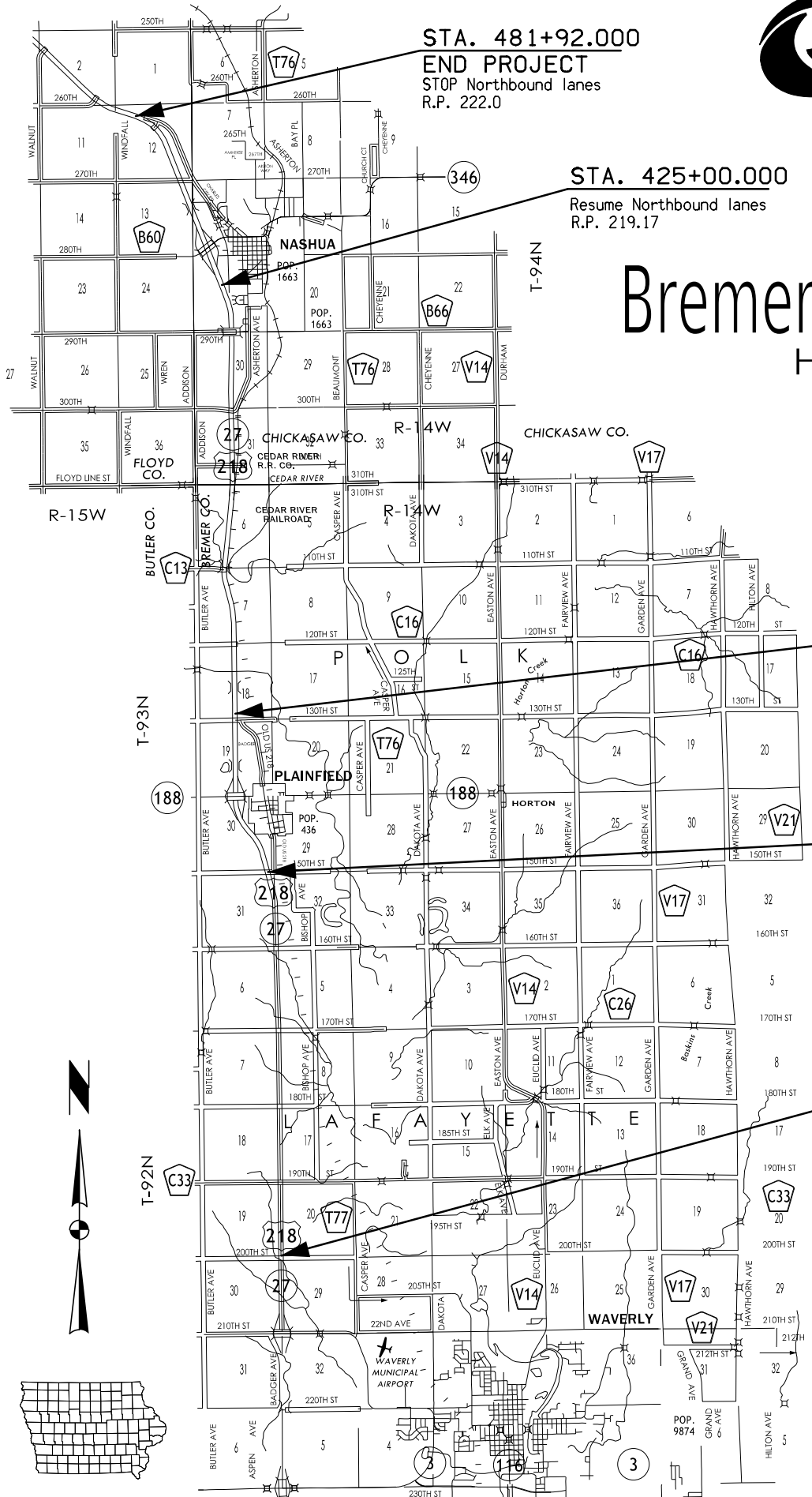
PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

Bremer\Chickasaw\Floyd COUNTY

HMA Resurfacing with Milling
1 mi E of Co Rd S56 to E Jct Co Rd T26

near 200th Street to 1.2 miles north of 270th Street.



SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.
Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



FE via Teams
5/7/2021
Mary Kelly
Duane Nie
Chris Suntken
Tracy Meise
Jason Dighton
Jeremy Weber
Ken Howe
Jason Ruter

Verify that the metric stations are converted correctly to english measurements.

DESIGN DATA RURAL	
20 -22 AADT	10,500 V.P.D.
20 -42 AADT	14,200 V.P.D.
20 --- DHV	--- V.P.H.
TRUCKS	28 %
Total	
Design ESALs	11,610,090

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1		Primary Signature Block

REVISIONS		TOTAL
PROJECT IDENTIFICATION NUMBER		
20-09-218-010		
PROJECT NUMBER		
NHSX-218-8(141)--3H-09		
R.O.W. PROJECT NUMBER		

INDEX OF SHEETS		105-3
		10-18-05
A.1	Title sheet and Location Map	
B.1-B.2	Typical Sections	
C.1-C.8	Estimate of Quantities, General Notes and Tabulations	
D.1-D.XX	Plan and Profile Sheets	
J.1	Traffic Control Sheet	
Add U Sheets to detail median/ramp paving		

MILEAGE SUMMARY				105-1
				09-27-94
Div.	Location	Lin. Ft.	Miles	
Northbound lanes	Sta. 217+17.581 to Sta. 337+30.000	39,410.75	7.46	
	Sta. 425+00.000 to Sta. 481+92.000	5,692.00	1.08	
Southbound lanes	Sta. 300+84.000 to Sta. 337+30.000	3,646.00	0.69	
		18674.54		
		11961.94		
* metric stations				
Total		48,748.75	9.23	

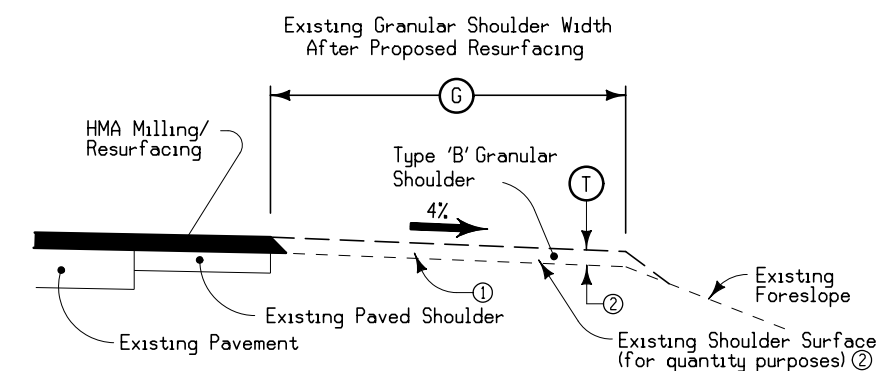
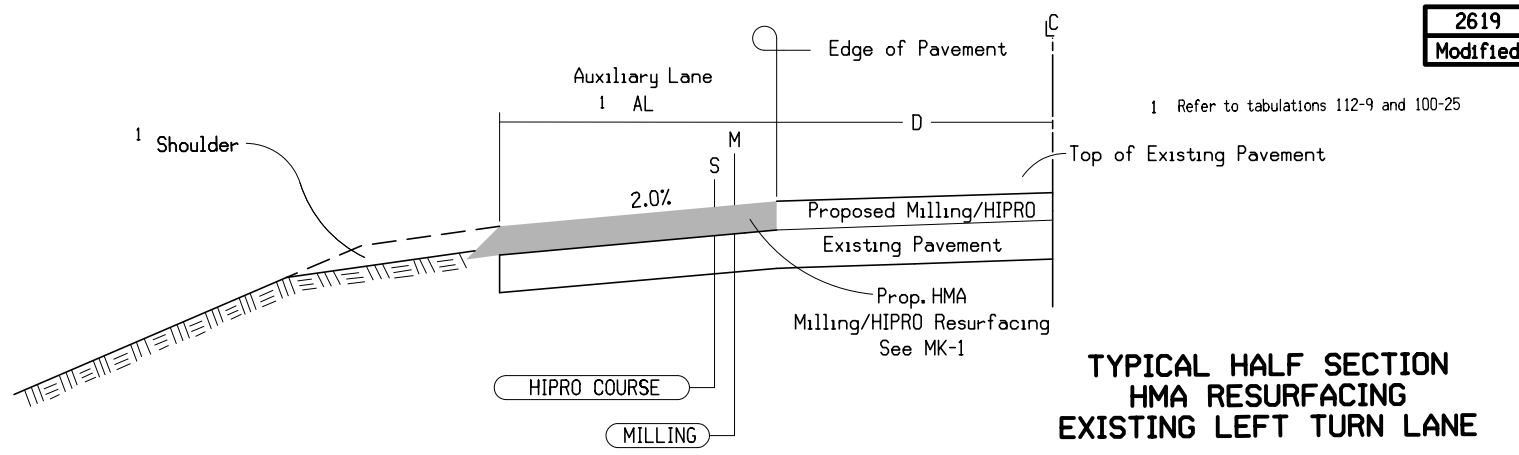
PRELIMINARY PLANS

Subject to change by final design.

D2 PLAN - Date: 5/7/21

* Refer to Tabulations 100-25 and 112-9 for locations

Road Identification		Direction of Travel		Station To Station		Side	D	AL	S	M
							Feet	Feet	Inches	Inches
US 218 turn lanes		Northbound left turn lane		*		Lt.	12	12	1.5	1.5
US 218 turn lanes		Southbound left turn lane		*		Rt.	12	12	1.5	1.5



- Existing shoulder surface to be shaped to a uniform cross slope prior to placing granular shoulder material. Shape to ensure the thickness of the granular shoulder material is not less than the thickness of the resurfacing.
- Nominal thickness adjusted to account for low shoulders & existing slopes greater than 4% (For quantity purposes Existing Shldr are measured 1.5' low and 7% (Rt) & 7% (Lt) in tangent sections & 9% in the superelevated section)
- Outside Design Shoulder width is 10' (6' paved and 4' granular) Inside Design Shoulder width is 6' (4' paved and 2' granular) Existing shoulder width was measured at a nominal 11' (1.5' Paved and 9.5' Granular)
- Refer to Tabulation 112-9 for additional information.

ROAD IDENTIFICATION		STATION TO STATION		SIDE	T Inches ^②	G Feet ^③
US 218 NB		217+17.581* 337+30.000*		Lt	1.5	5.0
US 218 NB		425+00.000* 491+82.000*		Rt	1.5	7.0
US 218 SB		217+17.581* 337+30.000*		Lt	1.5	6.0
US 218 SB		217+17.581* 337+30.000*		Rt	1.5	5.0
IA 188 RAMPS A,B,C,&D		217+17.581* 337+30.000*		Lt	1.5	6.0
IA 188 RAMPS A,B,C,&D		217+17.581* 337+30.000*		Rt	1.5	12.0
IA 346 RAMPS A&C		217+17.581* 337+30.000*		Lt	1.5	6.0
IA 346 RAMPS A&C		217+17.581* 337+30.000*		Rt	1.5	12.0

TYPICAL SECTION FOR TYPE 'B' GRANULAR SHOULDER
ADJACENT TO HOT MIX ASPHALT RESURFACING

100-1D 10-18-05
PROJECT DESCRIPTION
Includes milling 1 1/2" of the existing HMA pavement 34' wide and resurfacing with a High Performance HMA surface lift. The mainline, paved shoulders and ramps would be included. Additional work would include minor granular shouldering along the ramps, some full depth and partial depth patching, edge line rumble strips and pavement markings.

100-0A 10-28-97					
ESTIMATED ROADWAY QUANTITIES (1 DIVISION PROJECT)					
Item No.	Item Code	Item	Unit	Total	As Built Qty.
1	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	4,787.8	
2	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	0.0	
3	2212-5070322	PATCHES, PARTIAL-DEPTH REPAIR, HOT MIX ASPHALT	SY	0.0	
4	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	0	
5	2214-5145150	PAVEMENT SCARIFICATION	SY	265,769.3	
6	2303-0003380	HOT MIX ASPHALT MIXTURE THIN LIFT SURFACE COURSE, 3/8 IN. MI X	TON	21,975.800	
7	2303-1258347	ASPHALT BINDER, PG 58-34E+, EXTREMELY HIGH TRAFFIC, 90% ELAS TIC RECOVERY	TON	1,758.10	
8	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	3,607.60	
9	2528-8445110	TRAFFIC CONTROL	LS	0.00	
10	2530-0400061	HOT MIX ASPHALT (PARTIAL DEPTH PATCH MATERIAL)	TON	0.0	
11	2533-4980005	MOBILIZATION	LS	0.00	
12	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	1,400.9	
13	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	1,518.0	

100-4A 10-29-02		
ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
1	2121-7425020	GRANULAR SHOULDERS, TYPE B See Tabulation 112-9 for more information.
-	-	-
2	2212-5070310	PATCHES, FULL-DEPTH REPAIR --
-	-	-
3	2212-5070322	PATCHES, PARTIAL-DEPTH REPAIR, HOT MIX ASPHALT --
-	-	-
4	2212-5070330	PATCHES BY COUNT (REPAIR) --
-	-	-
5	2214-5145150	PAVEMENT SCARIFICATION
6	2303-0003380	HOT MIX ASPHALT MIXTURE THIN LIFT SURFACE COURSE, 3/8 IN. MI X
7	2303-1258347	ASPHALT BINDER, PG 58-34E+, EXTREMELY HIGH TRAFFIC, 90% ELAS TIC RECOVERY See Tabulation 100-25 and MK-1 for more informaion. DS15078 shall apply.
-	-	-
8	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED See Tabulation 108-22 for more information.
-	-	-
9	2528-8445110	TRAFFIC CONTROL --
-	-	-
10	2530-0400061	HOT MIX ASPHALT (PARTIAL DEPTH PATCH MATERIAL) --
-	-	-
11	2533-4980005	MOBILIZATION --
-	-	-
12	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE
13	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS) See Tabulation 112-10 for more information.

Add following Bid Items:
Construction Survey
Filed Lab

105-4 10-18-11		
STANDARD ROAD PLANS		
The following Standard Road Plans apply to construction work on this project.		
Number	Date	Title
PM-310	04-21-20	Entrance and Exit Ramps
PV-12	10-20-20	Milled Shoulder Rumble Strips
TC-417	04-21-20	Ramp Closure
PM-310	04-19-16	Entrance and Exit Ramps
PM-522	04-16-19	Two-Lane Roadway with Left Turn Lanes
PM-562	10-15-19	Divided Multi-Lane Roadway with Left Turn Lanes
PM-760	10-15-19	Divided Multi-Lane Roadway Median
PR-202	10-21-14	Notches for Resurfacing (with or without Runout)
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-416	10-15-19	Partial Lane Closure on Ramps
TC-420	10-16-18	Lane Closure at Ramps
TC-432	10-17-17	Shoulder Rumble Strip Operations
TC-433	10-17-17	Pavement Marking Operations

111-25 10-18-11		
INDEX OF TABULATIONS		
Tabulation	Tabulation Title	Sheet No.
C Sheets		
100-0A	ESTIMATED ROADWAY QUANTITIES (1 DIVISION PROJECT)	No Sheet No.
100-1D	PROJECT DESCRIPTION	No Sheet No.
100-1U	UTILITIES	No Sheet No.
100-4A	ESTIMATE REFERENCE INFORMATION	No Sheet No.
100-25	HMA PAVEMENT	No Sheet No.
102-5	EXISTING PAVEMENT	No Sheet No.
102-6C	FULL-DEPTH PATCHES	No Sheet No.
102-11	PARTIAL DEPTH REGULAR HMA FINISH PATCHES	No Sheet No.
102-16	NOTCHES AND RUNOUTS FOR RESURFACING	No Sheet No.
105-4	STANDARD ROAD PLANS	No Sheet No.
108-22	PAVEMENT MARKING LINE TYPES	No Sheet No.
111-25	INDEX OF TABULATIONS	No Sheet No.
112-9	SHOULDERS	No Sheet No.
112-10	MILLED RUMBLE STRIPS	No Sheet No.

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EXISTING PAVEMENT

No.	Location					Year	Type	Project Number	Surface		Base		Subbase		Removal		Coarse Aggregate			Reinforcement	Remarks	
	County	Route	Dir. of Travel	Begin Ref. Loc. Sign	End Ref. Loc. Sign				Type	Depth	Type	Depth	Type	Depth	Type	Depth	Source	Type	Durability Class			Type
	9	218	NB	206.15	213.67	2002		NHSX-218-8(66)--3H-09	ACC	1.5	ACC	2	ACC	9			Johlas	C.LST				
	19/34	218	NB	219.17	220.29	2003		NHSX-218-9(94)--2R-19	ACC	3.5	ACC	2	ACC	9			Warnholtz	C.LST				
	19/34	218	NB	220.29	222	2003		NHSN-218-9(94)--2R-19	ACC	1.5	ACC	2	ACC	10			Warnholtz	C.LST				
	9	218	SB	210.8	213.51	2002		NHSX-218-8(66)--3H-09	ACC	1.5	ACC	2	ACC	9			Johlas	C.LST				

FULL-DEPTH PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105, and PR-140.

Count	Station	Reference Location Sign	Location				Dimension				PCC Patches				HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks																	
			Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels	PR-103	PR-102	PR-104	PR-105											PR-140	PR-101	PR-101 or PR-140														
																												L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	SY	No.	No.	No.	No.

Construction indicated they sent patches already. Confirm to see if email was received and incorporate into project accordingly.

Add Leveler tab 106-2 to correct dips at culverts within project limits.

MILLED RUMBLE STRIPS

See PV-12 and PV-13

* Calculated at 18" width for Shoulder.

Road Identification	Location Station to Station		Shoulder Pavement Type	Rumble Strip Type (Centerline, Rt or Lt Shoulder)	L IN	Installation Length		Fog Seal* (Milled Rumble Strip) Shoulder GAL	Effective Shoulder Width			Remarks
						PCC	HMA		PCC Paved	HMA Paved	Granular\ Earth	
						STA	STA	FT	FT	FT		
US 218 NB	217+17.58	337+30.00	HMA	Left Shoulder			394.11	427.0				
US 218 NB	425+00.00	481+92.00	HMA	Left Shoulder			186.75	202.4				
US 218 SB	300+84.00	337+30.00	HMA	Left Shoulder			119.62	129.6				
US 218 NB	217+17.58	337+30.00	HMA	Right Shoulder			394.11	427.0				
US 218 NB	425+00.00	481+92.00	HMA	Right Shoulder			186.75	202.4				
US 218 SB	300+84.00	337+30.00	HMA	Right Shoulder			119.62	129.6				
Totals							PCC	HMA	Fog Seal			
HMA Shoulders								1400.94	1518.0			
PCC Shoulders							0.00					
PCC or HMA Shoulders							0.00	0.00	0.0			
HMA Centerlines								0.00				
PCC Centerlines							0.00					
PCC or HMA Centerlines							0.00	0.00				

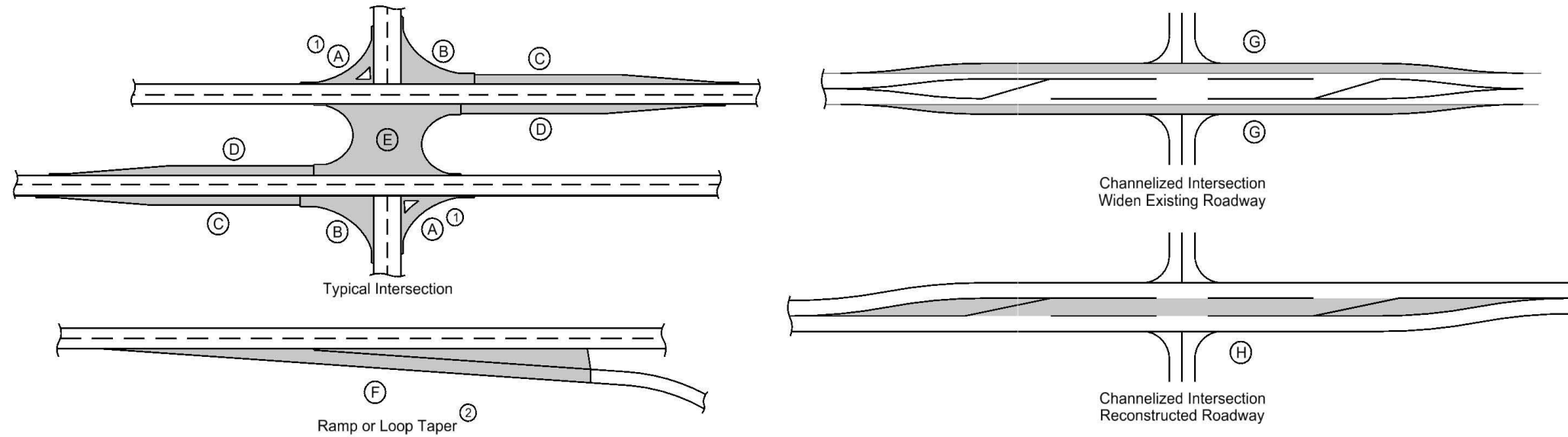
NOTCHES AND RUNOUTS FOR RESURFACING

Refer to PR-201 and PR-202.

① Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values.

Location Station	Type of Notch or Runout	S	I	DI	L	M	Pavement Scarification ①	Remarks
		IN	IN	IN	FT	IN	SY	
217+17.58	Type 'N2'	1.5			75.0			NB
337+30.00	Type 'N2'	1.5			75.0			NB
300+84.00	Type 'N2'	1.5			75.0			SB
337+30.00	Type 'N2'	1.5			75.0			SB
425+00.00	Type 'N2'	1.5			75.0			NB
481+90.00	Type 'N2'	1.5			75.0			NB
1518+18.00	Type 'N2'	1.5			75.0			US218/IA188 Ramp A
1522+05.00	Type 'N2'	1.5			75.0			US218/IA188 Ramp A
2511+78.00	Type 'N2'	1.5			75.0			US218/IA188 Ramp B
2517+90.00	Type 'N2'	1.5			75.0			US218/IA188 Ramp B
3513+92.26	Type 'N2'	1.5			75.0			US218/IA188 Ramp C
3518+25.00	Type 'N2'	1.5			75.0			US218/IA188 Ramp C
4517+84.00	Type 'N2'	1.5			75.0			US218/IA188 Ramp D
4522+00.00	Type 'N2'	1.5			75.0			US218/IA188 Ramp D
218+15.45	Type 'N2'	1.5			15.0			Roadway Median
234+27.05	Type 'N2'	1.5			15.0			Roadway Median
250+38.86	Type 'N2'	1.5			15.0			Roadway Median
266+50.71	Type 'N2'	1.5			15.0			Roadway Median
283+92.42	Type 'N2'	1.5			15.0			Roadway Median
334+34.01	Type 'N2'	1.5			15.0			Roadway Median
451+29.700	Type 'N2'	1.5			15.0			Roadway Median
464+00.00	Type 'N2'	1.5			15.0			Roadway Median
478+00.80	Type 'N2'	1.5			15.0			Roadway Median
Note: location of Roadway Median notches are to be located parallel with Mainline at the inside edge of SB turn lanes or edge of SB pavement.								

HMA PAVEMENT

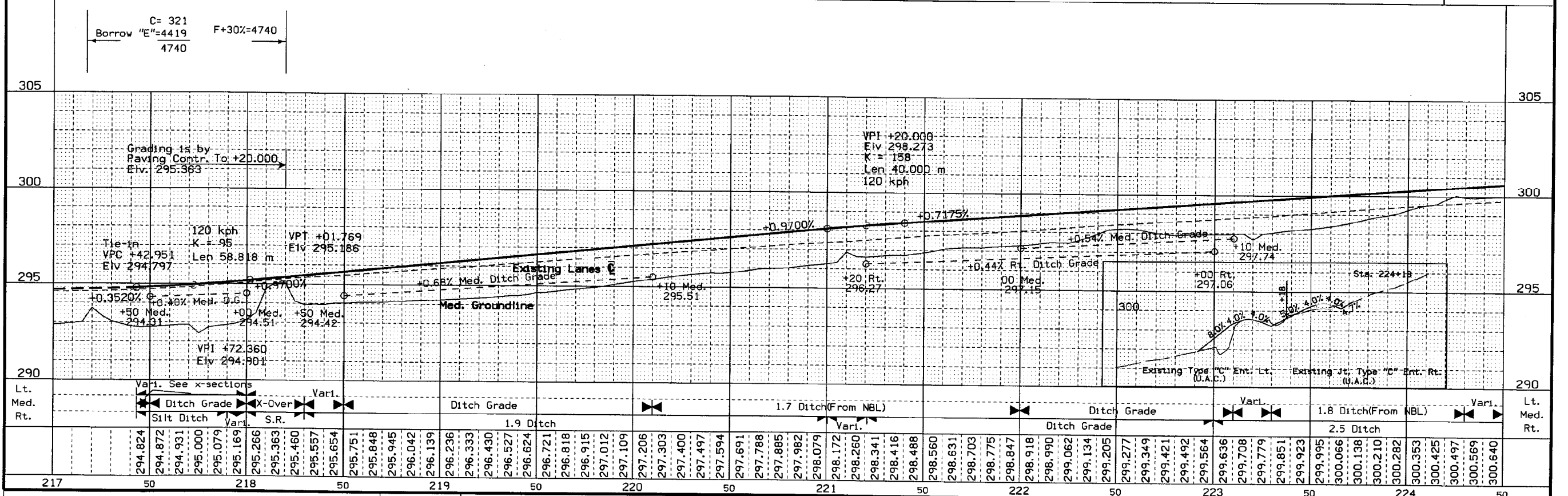
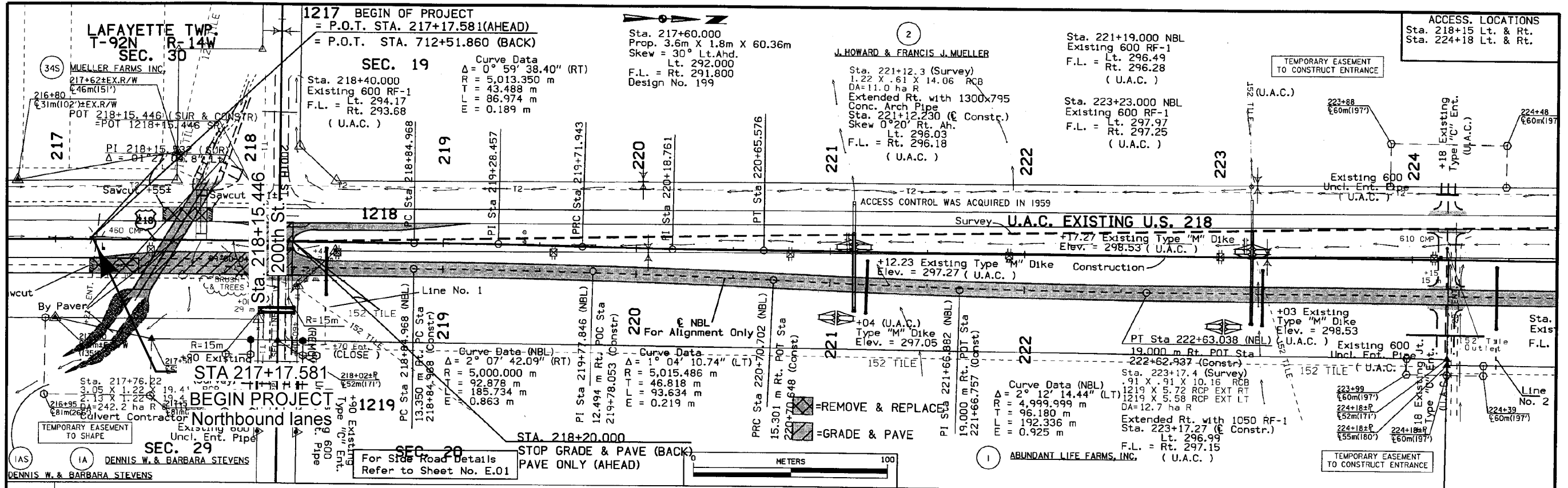


- ① Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
- ② Refer to PV-410, PV-411, PV-412, and PV-414.
- ③ Quantity includes Pavement Header.

Calculations assume a surface course unit weight (lbs/cf) of 147, an intermediate course unit weight (lbs/cf) of 0, a base course unit weight (lbs/cf) of 0, and a special backfill unit weight (lbs/cf) of 0.

Location			Mainline			Area ③								Bid Items										Remarks		
Road Identification	Direction of Travel	Station to Station	Width	Length	Area	A ①	B	C	D	E	F ②	G	H	Hot Mix Asphalt Pavement						Binder						
														Surface		Intermediate		Base		Surface	Intermediate	Base	Special Backfill		Modified Subbase	Granular Subbase
				FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	TONS	SY	TONS	SY	TONS	SY	TONS	TONS	TONS	CY		SY	SY
Median																										
Crossovers		218+15.45			388.0					388.0				32.083	388.0					2.567					388.0	G/H
		234+27.05			818.0					818.0				67.638	818.0					5.411					818.0	G/H
		250+38.86			574.0					574.0				67.638	574.0					5.411					574.0	G/H
		266+50.71			585.2					585.2				48.389	585.2					3.871					585.2	G/H
		283+92.42			696.9					696.9				57.625	696.9					4.610					696.9	G/H
		334+34.01			608.3					608.3				50.299	608.3					4.024					608.3	G/H
		451+29.70			676.4					676.4				55.930	676.4					4.474					676.4	G/H
		464+00.00			370.5					370.5				30.636	370.5					2.451					370.5	G/H
		478+00.80			823.7					823.7				68.110	823.7					5.449					823.7	G/H
Totals														#####	267019.7					#####					#####	

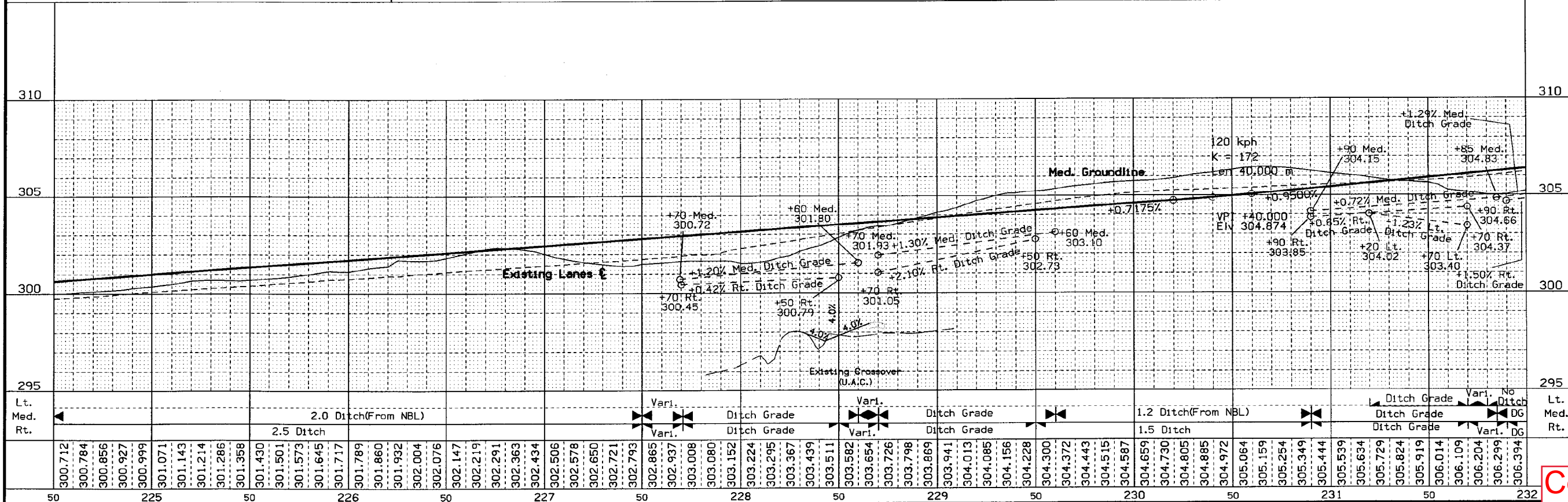
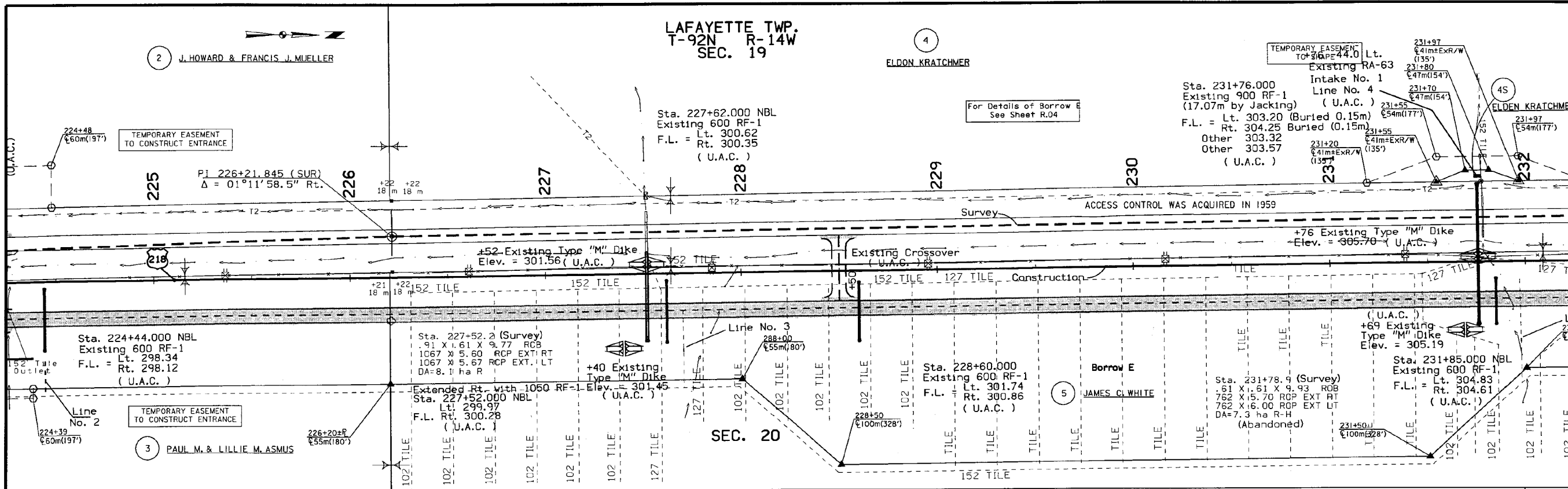
Note: Stations in metric. Lengths and quantities in English unit.
 A= ex. PCC shoulder/crossover lt.
 B= Bridge
 C = ex. patching at US 218/ IA188 ramp B
 D = ex. patching at left lane and US 218/IA188 ramp D
 E = ex. Patching at US 218/ IA 188 Ramp C
 F = ex. Patching at US 218/ IA 188 Ramp A
 G= See tabulation 102-16 for notch location.
 H= Area calculated from as-built L sheets



217	50	218	50	219	50	220	50	221	50	222	50	223	50	224	50
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DESIGN TEAM NICHOLSON/JENSEN METRIC IOWA DOT * OFFICE OF DESIGN BREMER COUNTY PROJECT NUMBER NHSX-218-8(66)--3H-09 SHEET NUMBER D.02

AS-BUILT PLANS, FOR INFORMATION ONLY



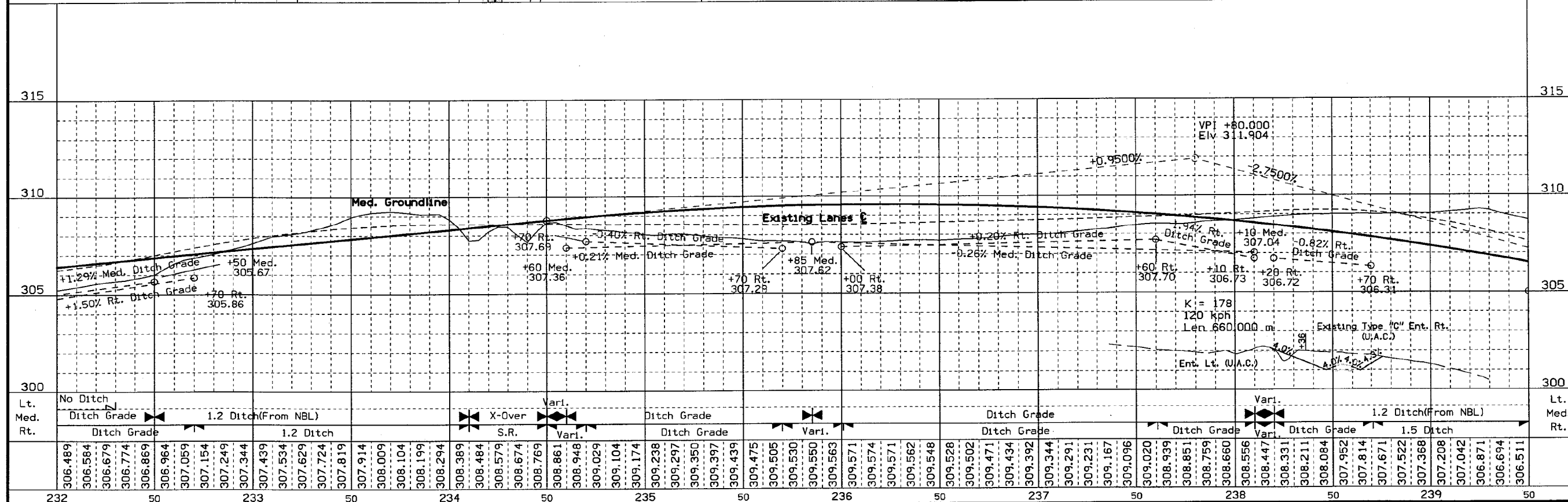
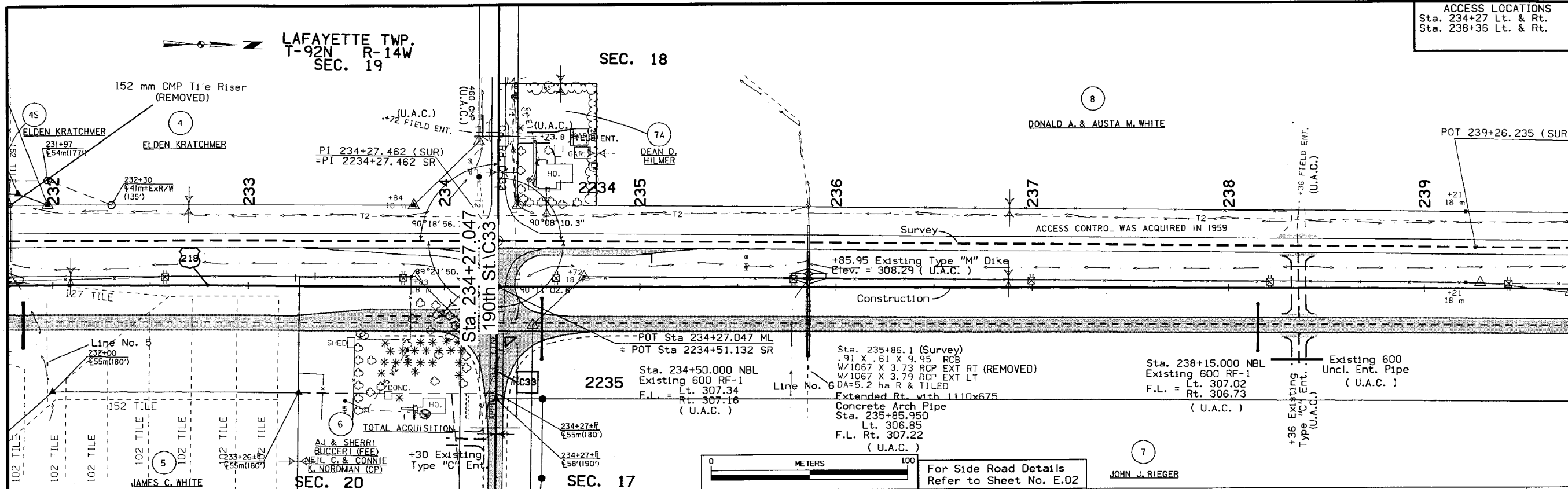
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DESIGN TEAM NICHOLSON/JENSEN METRIC IOWA DOT * OFFICE OF DESIGN BREMER COUNTY PROJECT NUMBER NHSX-218-8(66)--3H-09 SHEET NUMBER D.02

Correct sheet numbering

02

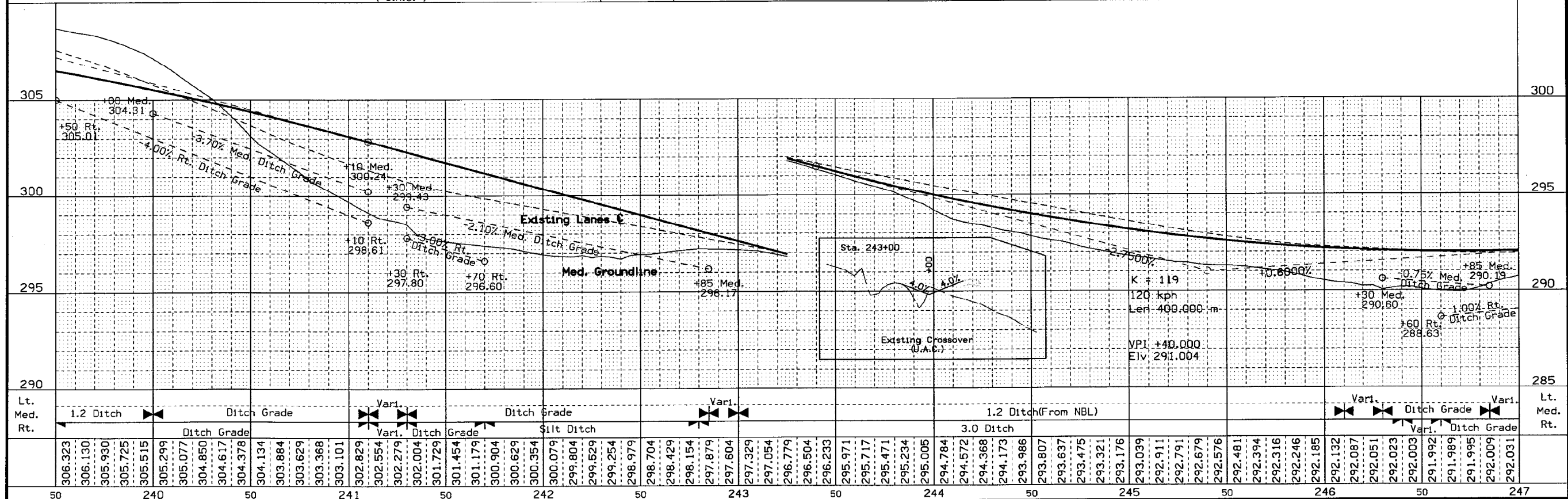
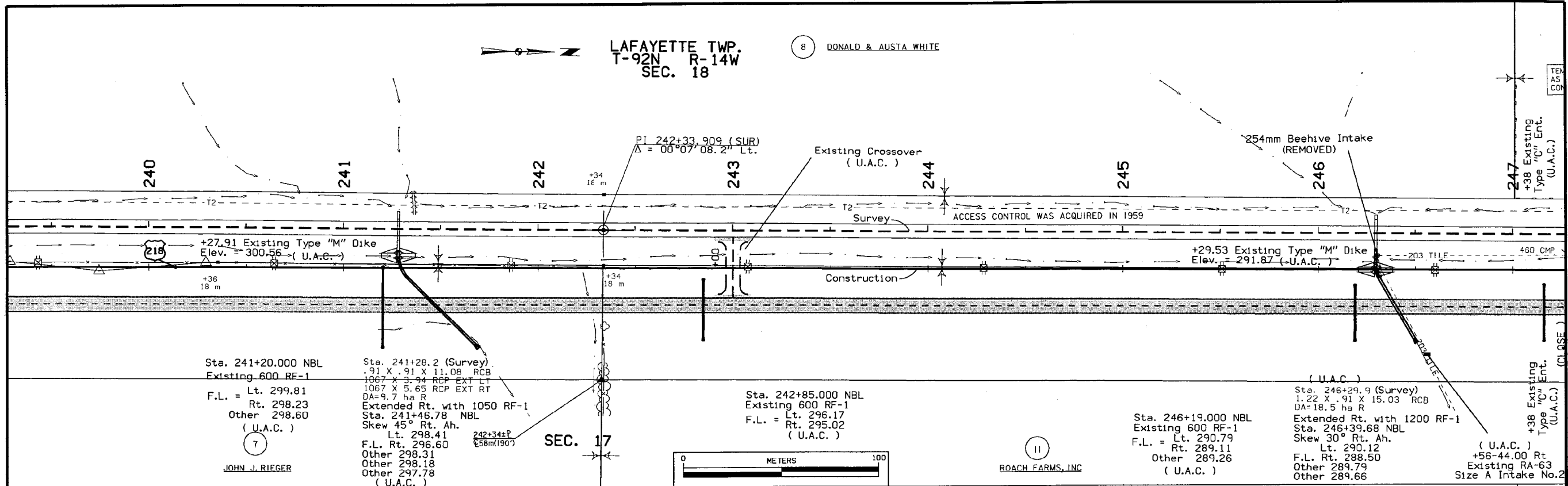
ACCESS LOCATIONS
Sta. 234+27 Lt. & Rt.
Sta. 238+36 Lt. & Rt.



DESIGN TEAM NICHOLSON/JENSEN METRIC IOWA DOT * OFFICE OF DESIGN BREMER COUNTY PROJECT NUMBER NHSX-218-8(66)--3H-09 SHEET NUMBER D.04

03-APR-2001 13:07 rcorneil s:\PROJECTS\09218020A91\DESIGN\k09218066.d04

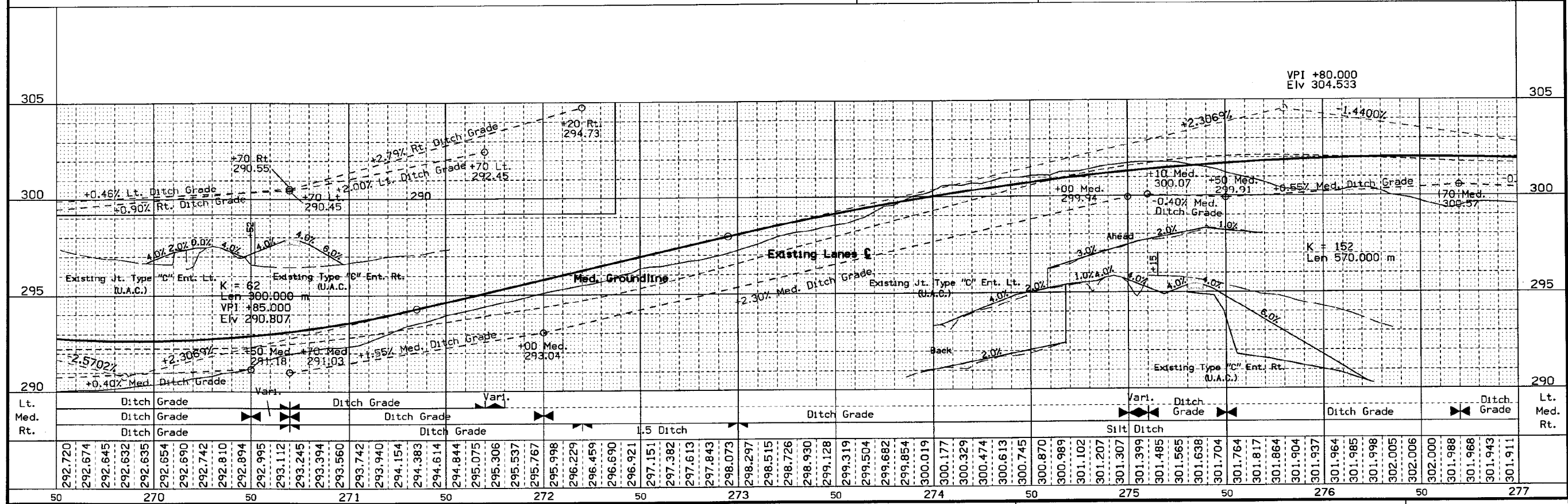
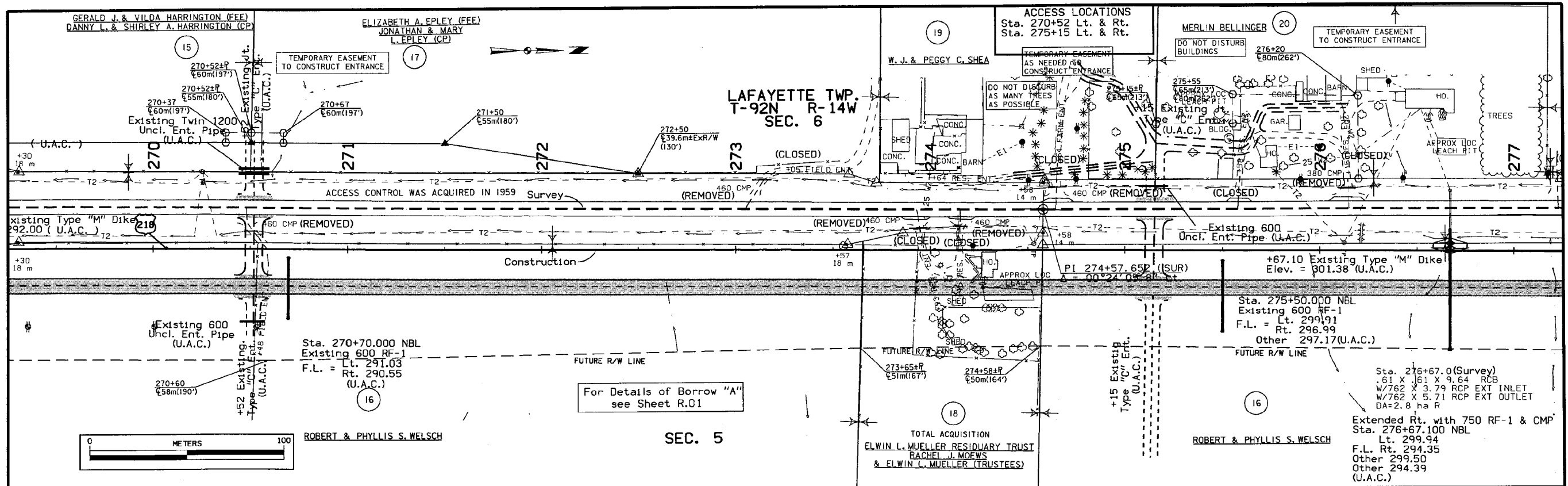
AS-BUILT PLANS, FOR INFORMATION ONLY



306.323	306.130	305.930	305.725	305.515	305.299	305.077	304.850	304.617	304.378	304.134	303.884	303.629	303.368	303.101	302.829	302.554	302.279	302.004	301.729	301.454	301.179	300.904	300.629	300.354	300.079	299.804	299.529	299.254	298.979	298.704	298.429	298.154	297.879	297.604	297.329	297.054	296.779	296.504	296.233	295.971	295.717	295.471	295.234	295.005	294.784	294.572	294.368	294.173	293.986	293.807	293.637	293.475	293.321	293.176	293.039	292.911	292.791	292.679	292.576	292.481	292.394	292.316	292.246	292.185	292.132	292.087	292.051	292.023	292.003	291.992	291.989	291.995	292.009	292.031
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DESIGN TEAM NICHOLSON/JENSEN METRIC IOWA DOT * OFFICE OF DESIGN BREMER COUNTY PROJECT NUMBER NHSX-218-8(66)--3H-09 SHEET NUMBER D.05

AS-BUILT PLANS, FOR INFORMATION ONLY



DESIGN TEAM	NICHOLSON/JENSEN	METRIC	IOWA DOT * OFFICE OF DESIGN	BREMER COUNTY	PROJECT NUMBER	NHSX-218-8(66)--3H-09	SHEET NUMBER	D.09
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26-APR-2001 10:17 wnading s:\PROJECTS\09218020A91\DESIGN\K09218066.D09

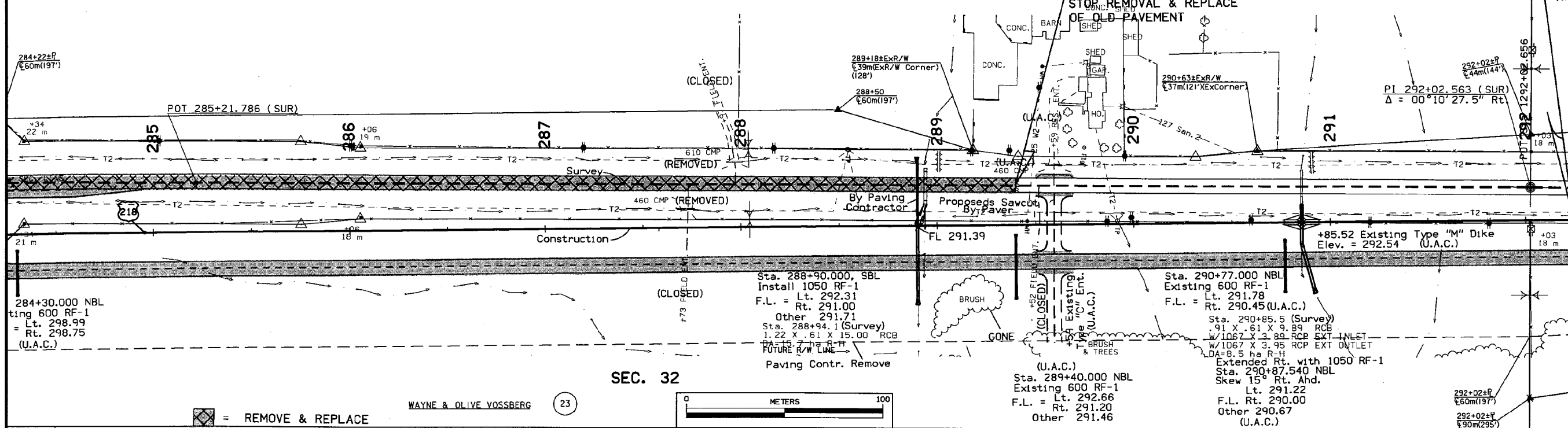
AS-BUILT PLANS, FOR INFORMATION ONLY

POLK TWP.
T-93N R-14W
SEC. 31

WAYNE & OLIVE VOSSBERG (23)

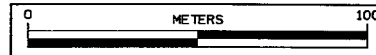
ACCESS LOCATIONS
Sta. 289+59 Lt. & Rt.

STA
RES
REV

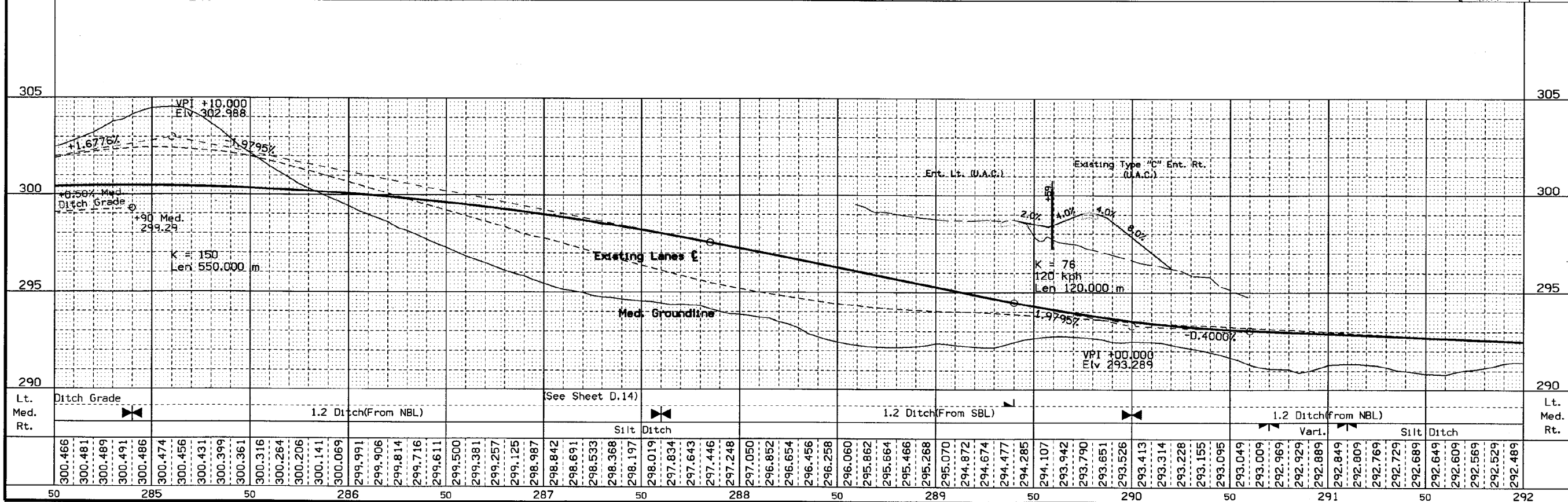


SEC. 32

WAYNE & OLIVE VOSSBERG (23)



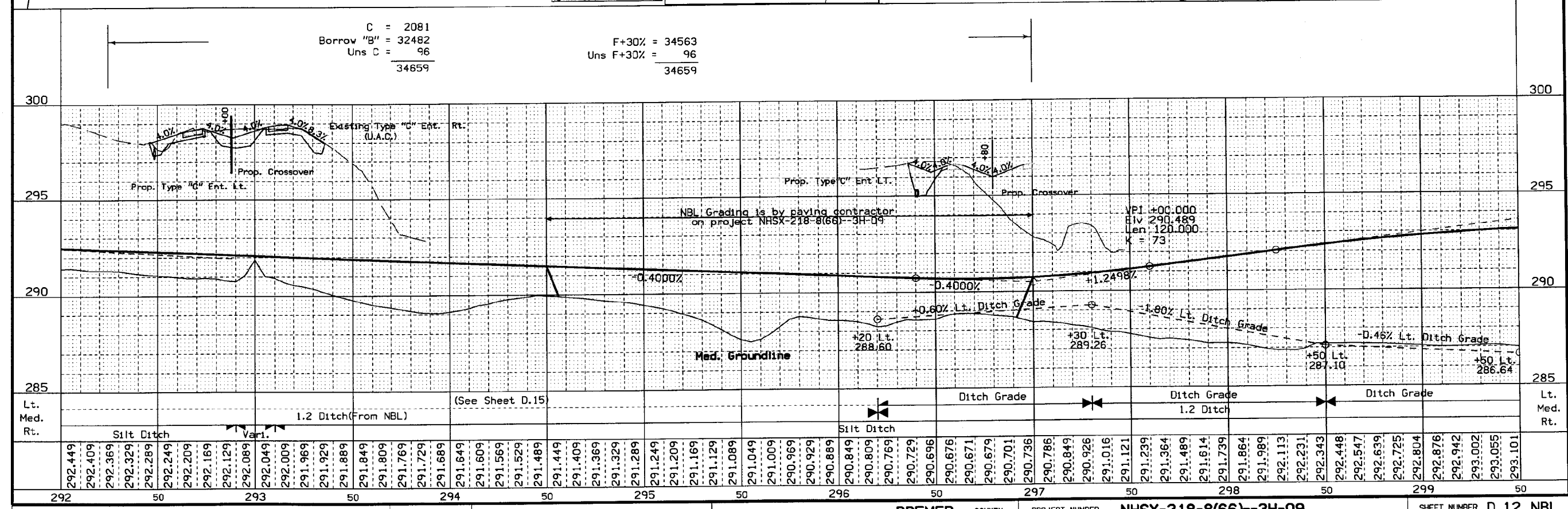
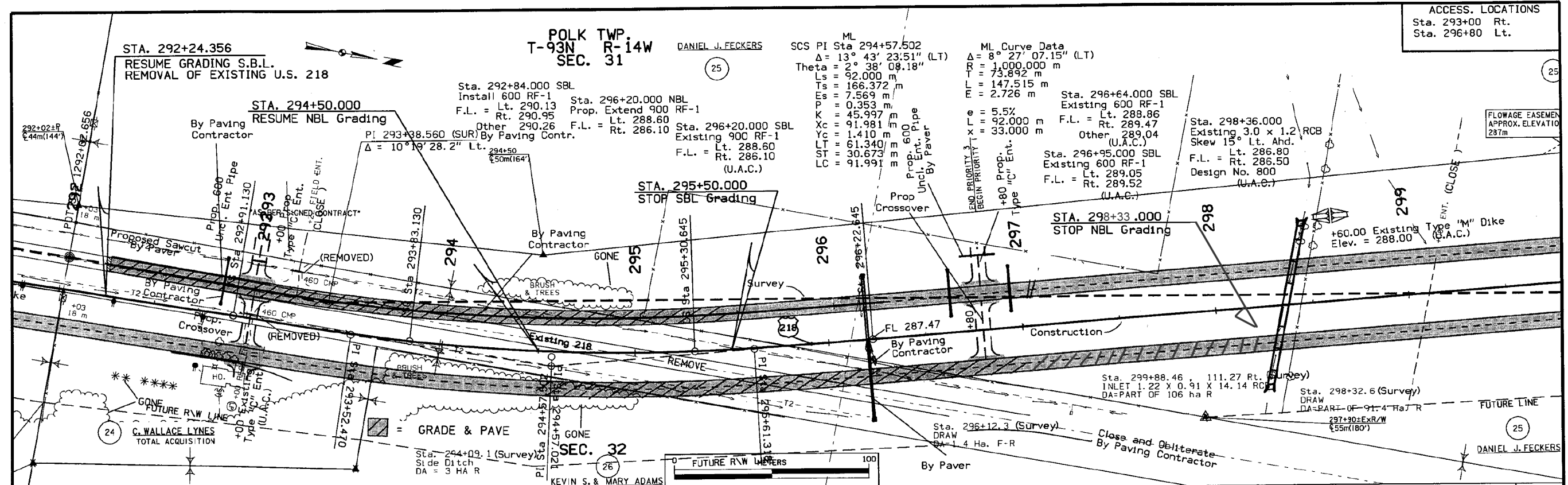
REMOVE & REPLACE



DESIGN TEAM	NICHOLSON/JENSEN	METRIC	IOWA DOT * OFFICE OF DESIGN	BREMER COUNTY	PROJECT NUMBER	NHSX-218-8(66)-3H-09	SHEET NUMBER	D.11 NBL
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25-MAY-2001 10:44 rcorneil s:\PROJECTS\09218020A91\DESIGN\k09218066.d11

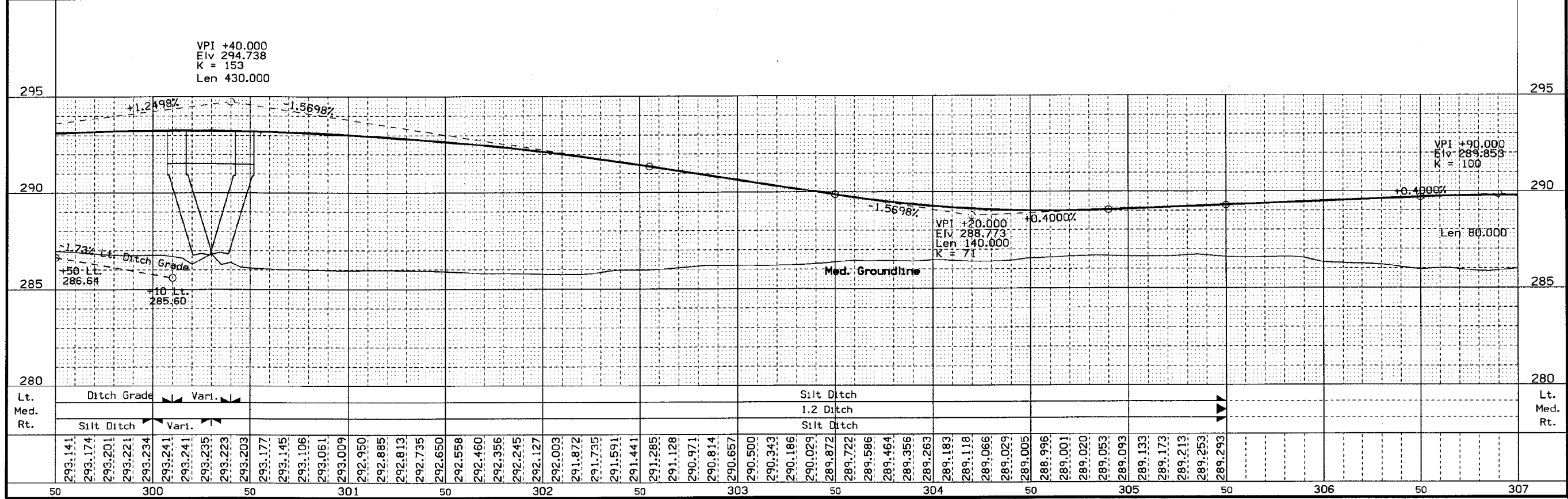
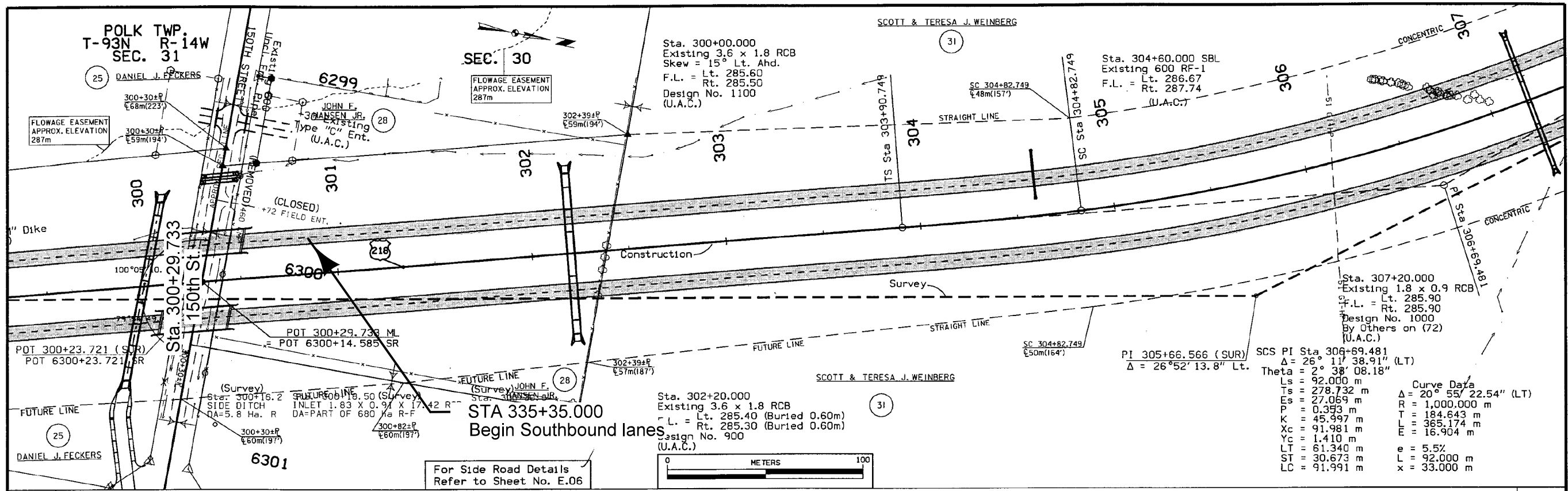
AS-BUILT PLANS, FOR INFORMATION ONLY



DESIGN TEAM NICHOLSON/JENSEN METRIC IOWA DOT * OFFICE OF DESIGN BREMER COUNTY PROJECT NUMBER NHSX-218-8(66)--3H-09 SHEET NUMBER D.12 NBL

14 JUN 2001 12:16 rconrel s:\PROJECTS\09218020A91\DESIGN\K09218066.d12

AS-BUILT PLANS, FOR INFORMATION ONLY

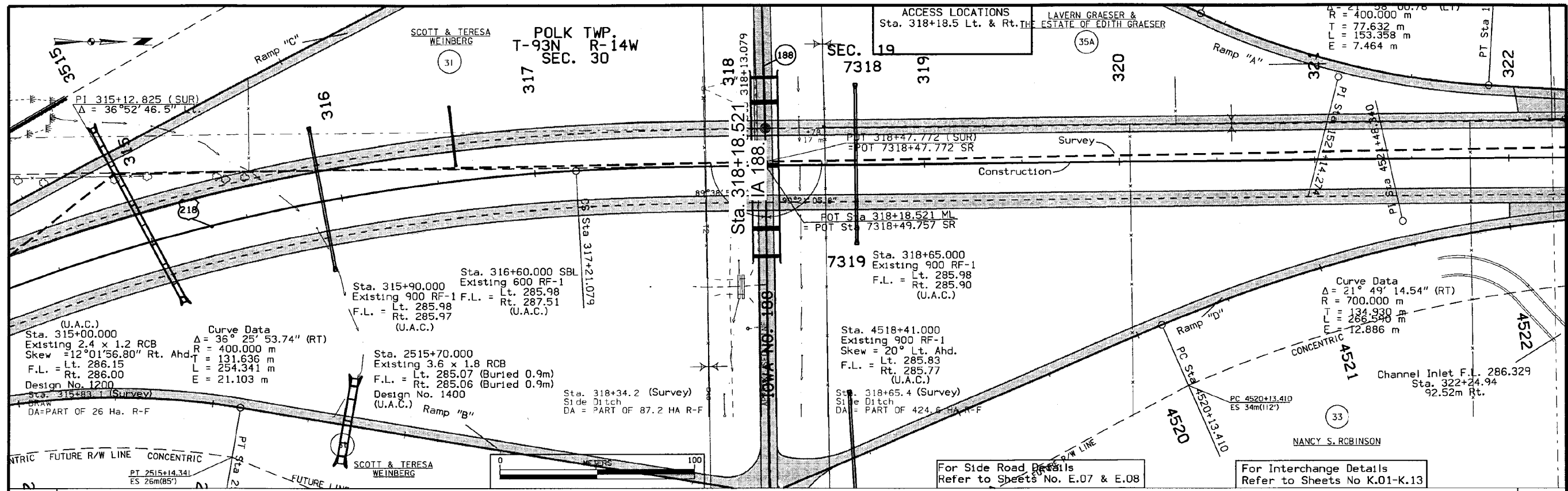


295	VPI +40.000 Elev 294.738 K = 153 Len 430.000										295					
290	VPI +90.000 Elev 289.853 K = 100 Len 80.000										290					
285	Med. Groundline										285					
280	Ditch Grade										280					
Lt.	Ditch Grade										Lt.					
Med.	Silt Ditch										Med.					
Rt.	Silt Ditch										Rt.					
	50	300	50	301	50	302	50	303	50	304	50	305	50	306	50	307

DESIGN TEAM NICHOLSON/JENSEN METRIC IOWA DOT * OFFICE OF DESIGN BREMER COUNTY PROJECT NUMBER NHSX-218-8(66)--3H-09 SHEET NUMBER D.16

03-APR-2001 13:24 rcomel s:\PROJECTS\09218020A\1\DESIGN\09218066.d16

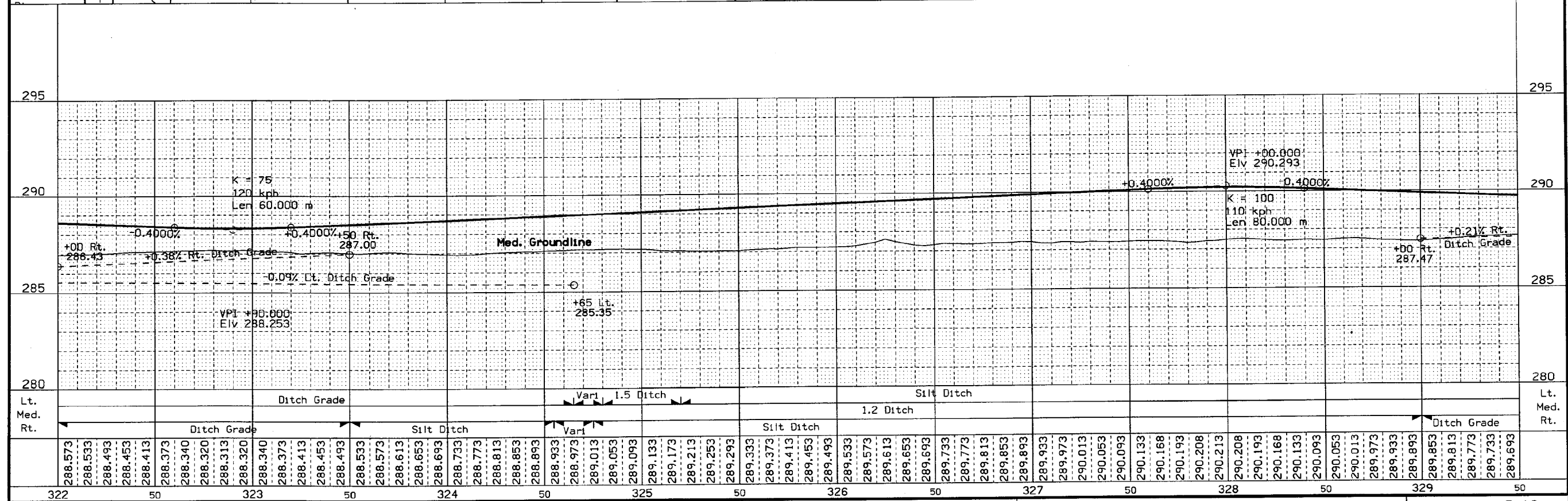
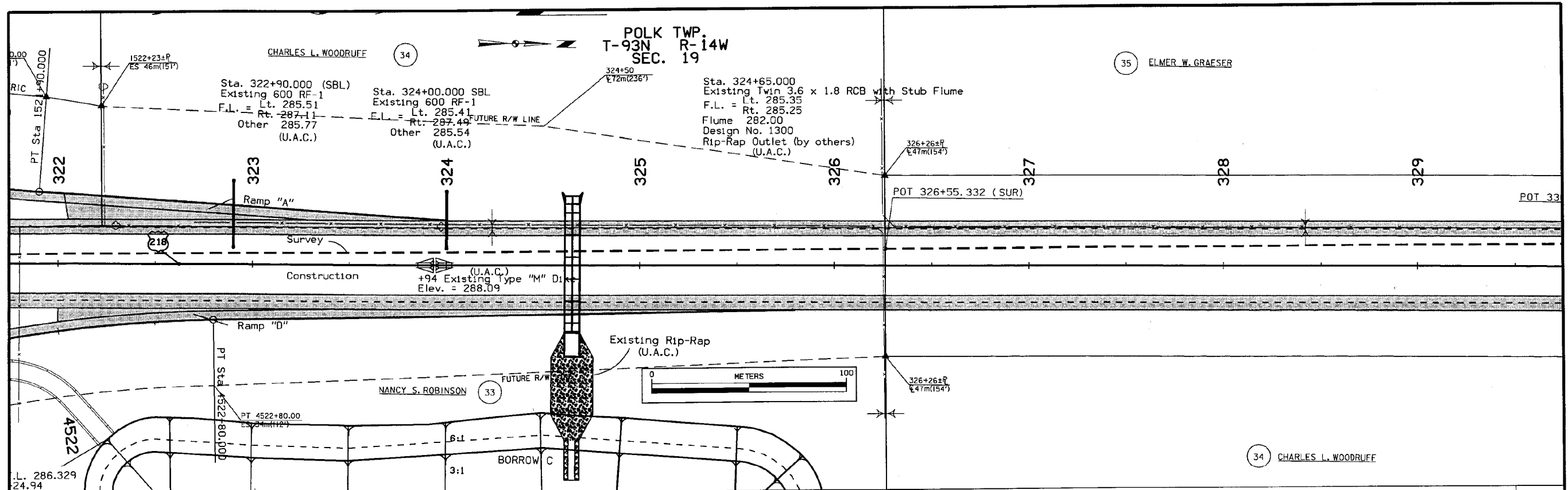
AS-BUILT PLANS, FOR INFORMATION ONLY



295																					295																																																							
290	<p>K = 75 120 kph Len. 60.000</p> <p>VPI +00.000 Ely 289.813</p> <p>+0.4000% 0.4000%</p>																				290																																																							
285	<p>-0.4000% -0.4000%</p> <p>+0.00 Med. Ditch Grade +0.00 Med. Ditch Grade</p> <p>-0.24% Lt. Ditch Grade 0.00% Lt. Ditch Grade</p> <p>+140 Lt. 286.10 +90 Lt. 285.98 +80 Lt. 285.98 +90 Lt. 285.60</p> <p>VPI +60.000 Ely 288.853</p> <p>Med. Groundline</p>																				285																																																							
280	<p>Lt. Ramp "C" Ditch Grade Ditch Grade S.R. Vari Silt Ditch Ramp "A"</p> <p>Med. 1.2 Ditch Ditch Grade Ditch Grade S.R. Vari 1.2 Ditch Ramp "A"</p> <p>Rt. Silt Ditch 2.5 Ditch Silt Ditch S.R. Vari Silt Ditch Ramp "D"</p>																				280																																																							
	289.653	289.613	289.573	289.533	289.493	289.453	289.413	289.373	289.333	289.293	289.253	289.213	289.173	289.133	289.093	289.053	289.013	288.973	288.940	288.920	288.913	288.920	288.940	288.973	289.013	289.053	289.093	289.133	289.173	289.213	289.253	289.293	289.333	289.373	289.413	289.453	289.493	289.533	289.573	289.613	289.653	289.688	289.713	289.728	289.733	289.728	289.713	289.688	289.653	289.613	289.573	289.533	289.493	289.453	289.413	289.373	289.333	289.293	289.253	289.213	289.173	289.133	289.093	289.053	289.013	288.973	288.933	288.893	288.853	288.813	288.773	288.733	288.693	288.653	288.613	
	50	315					50	316					50	317					50	318					50	319					50	320					50	321					50	322																																

DESIGN TEAM NICHOLSON/JENSEN METRIC IOWA DOT * OFFICE OF DESIGN BREMER COUNTY PROJECT NUMBER NHSX-218-8(66)-3H-09 SHEET NUMBER D.18

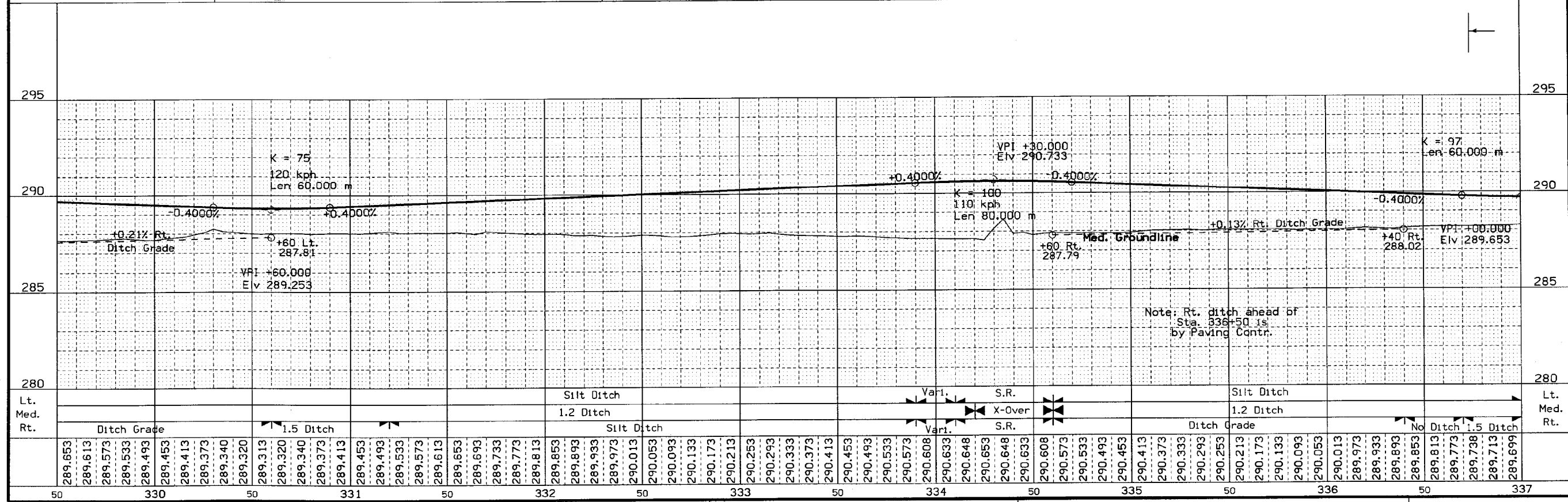
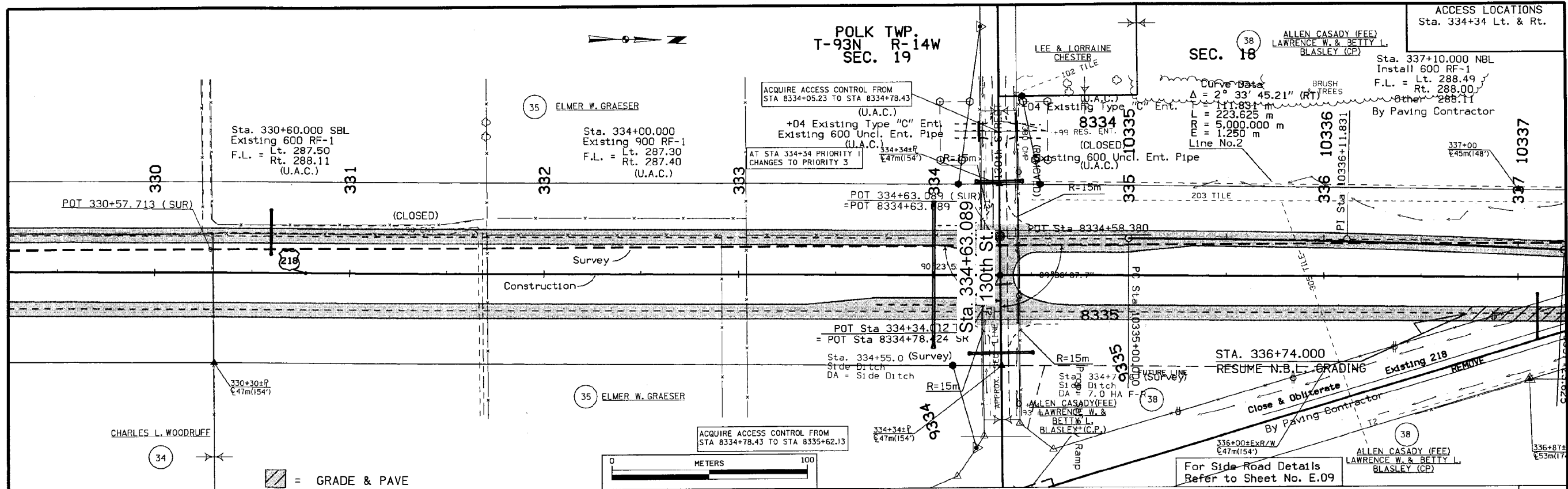
AS-BUILT PLANS, FOR INFORMATION ONLY



DESIGN TEAM NICHOLSON/JENSEN METRIC IOWA DOT * OFFICE OF DESIGN BREMER COUNTY PROJECT NUMBER NHSX-218-8(66)-3H-09 SHEET NUMBER D.19

18-APR-2001 07:06 whadnq s:\PROJECTS\09218020A91\DESIGN\k09218066.d19

AS-BUILT PLANS, FOR INFORMATION ONLY

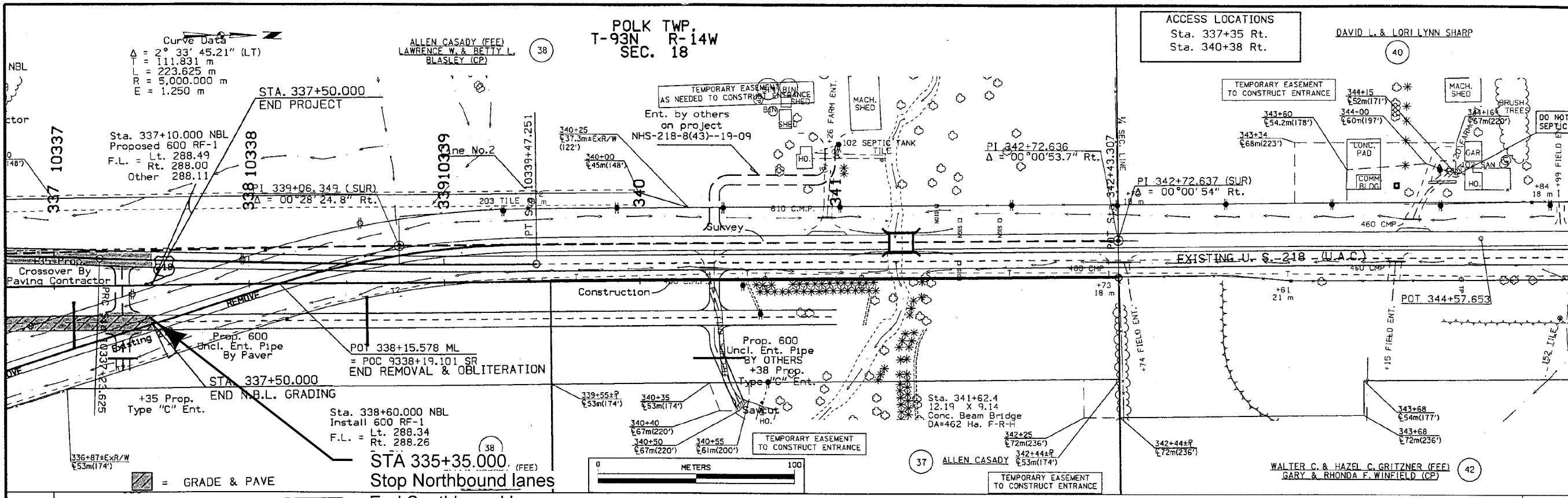


DESIGN TEAM	NICHOLSON/JENSEN	METRIC	IOWA DOT * OFFICE OF DESIGN	BREMER COUNTY	PROJECT NUMBER	NHSX-218-8(66)--3H-09	SHEET NUMBER	D.20
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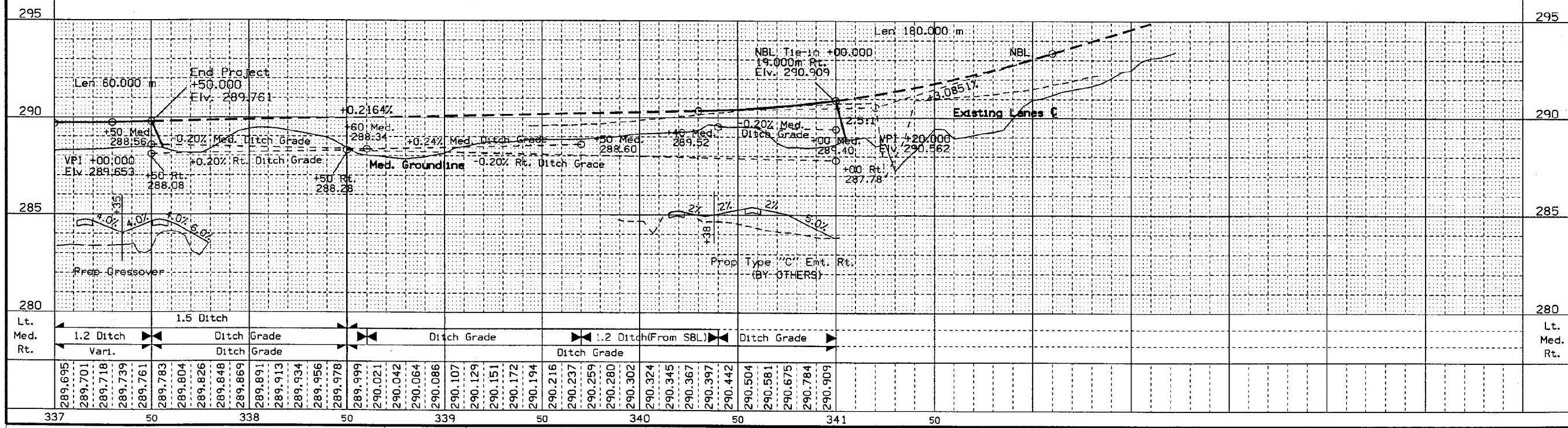
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AS-BUILT PLANS, FOR INFORMATION ONLY

POLK TWP.
T-93N R-14W
SEC. 18

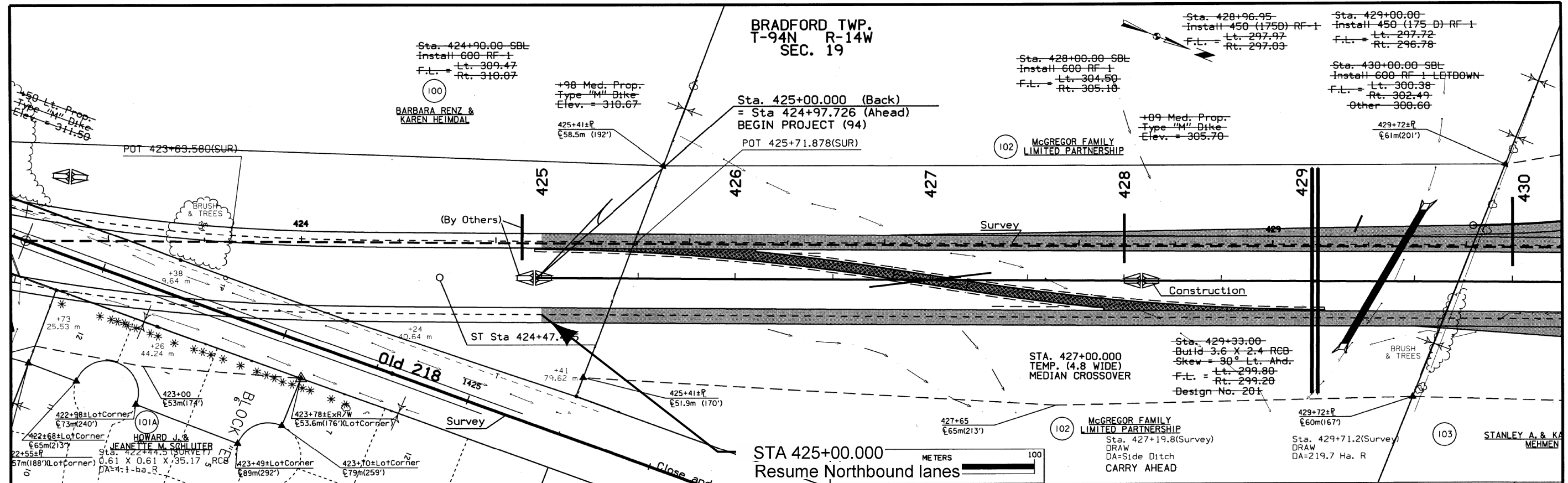


C = 173	F+30% = 1636
Borrow "B" = 463	Uns F+30% = 15
Uns C = 15	
1651	1651



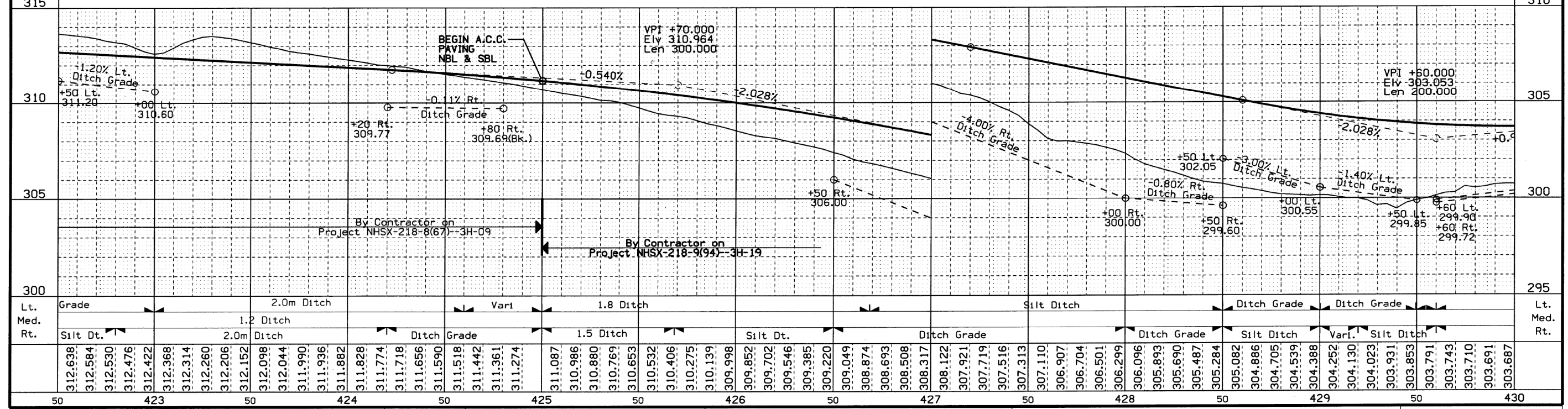
DESIGN TEAM	NICHOLSON/JENSEN	METRIC	IOWA DOT * OFFICE OF DESIGN	BREMER COUNTY	PROJECT NUMBER	NHSX-218-8(66)--3H-09	SHEET NUMBER	D.21
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AS-BUILT PLANS, FOR INFORMATION ONLY



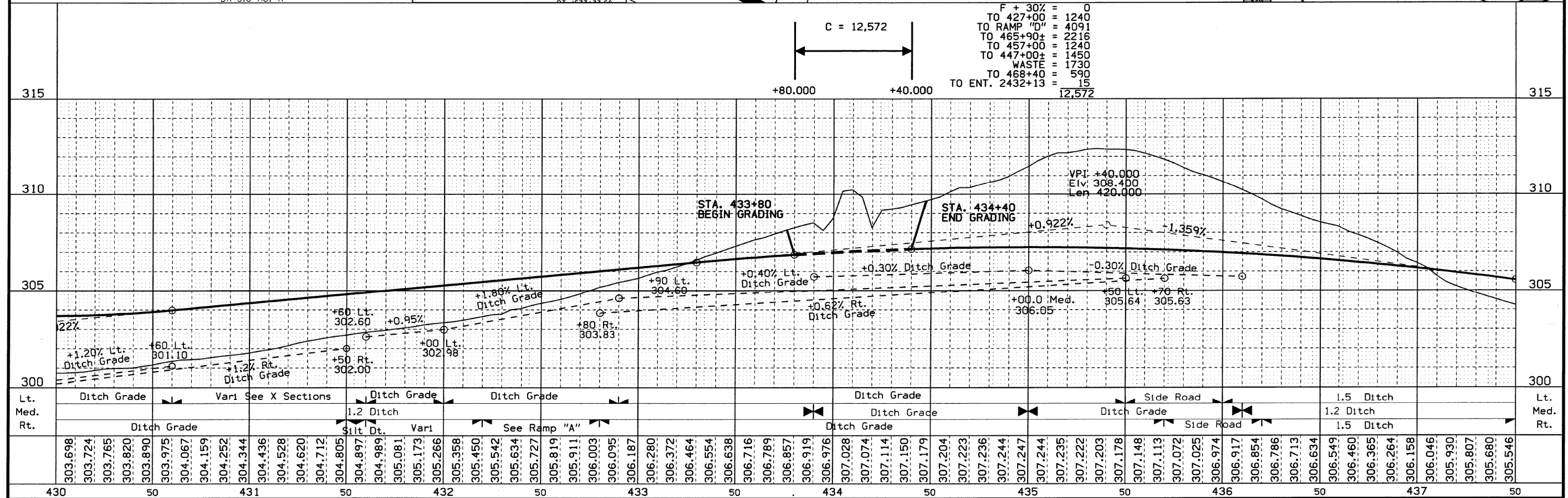
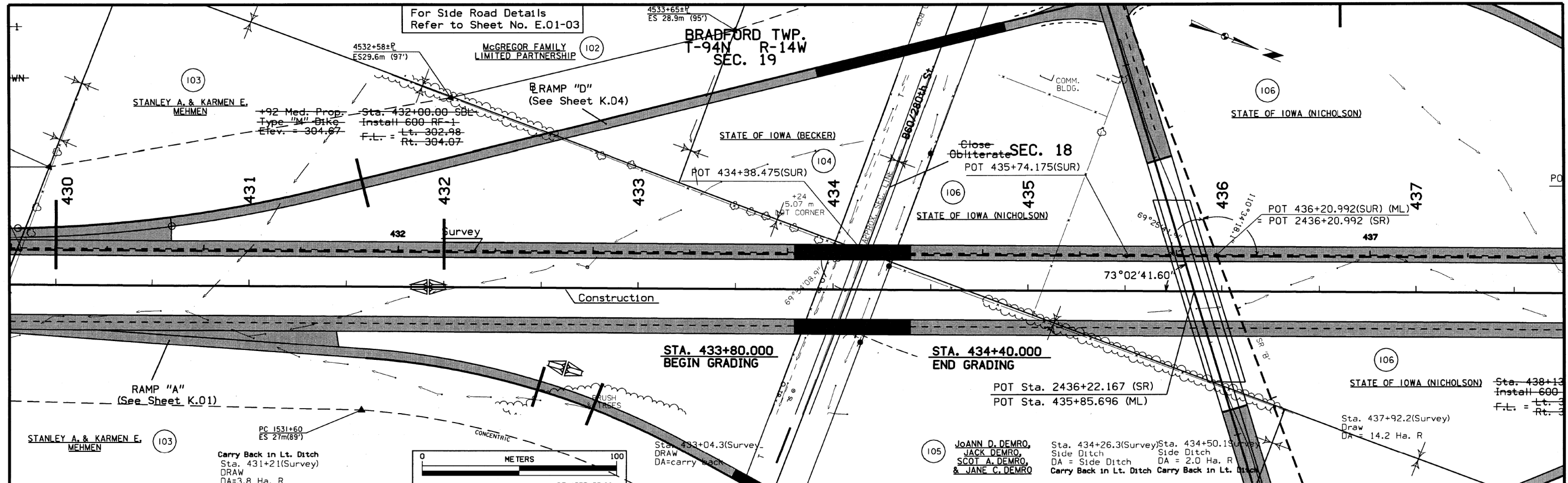
FROM 433+90± = $\frac{C}{1240} = \frac{0}{1240}$ F+30% = 1240

TEMP. MEDIAN X-OVER



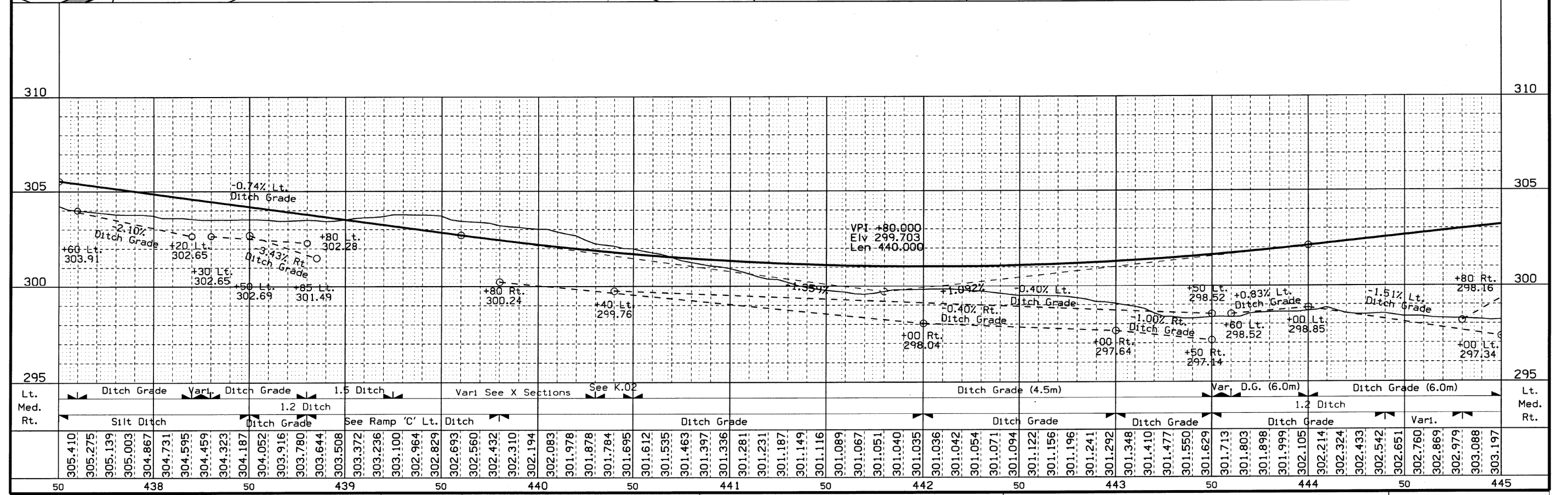
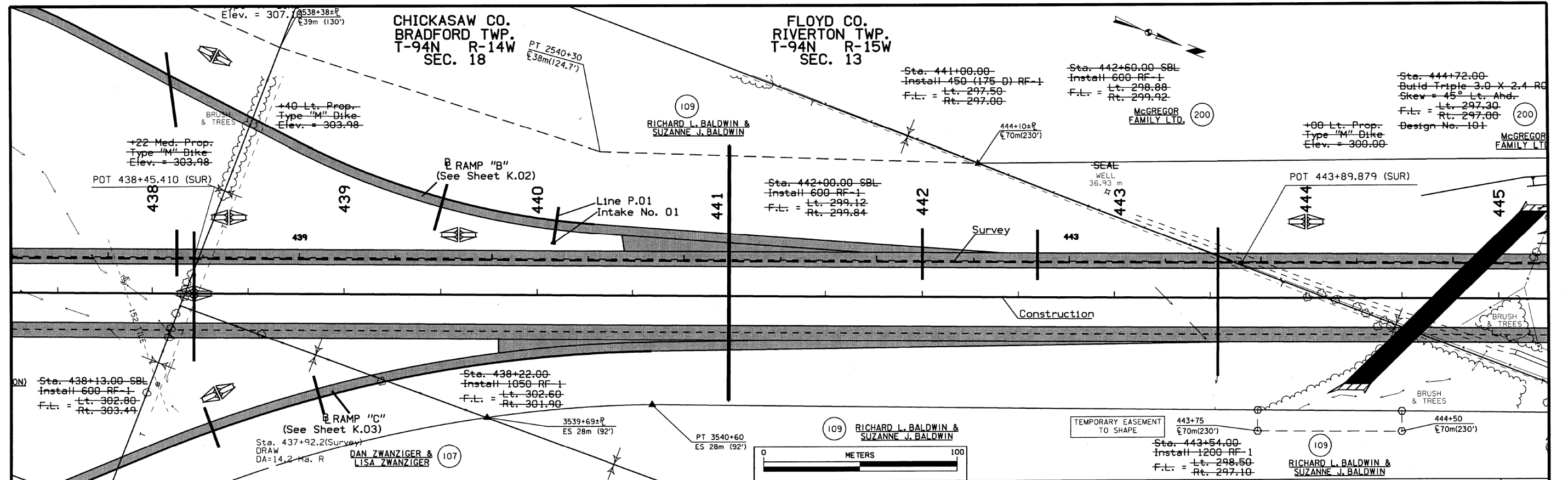
DESIGN TEAM NICHOLSON/KLUNDER METRIC IOWA DOT * OFFICE OF DESIGN CHICK./FLOYD COUNTY PROJECT NUMBER NHSN-218-9(94)-2R-19 SHEET NUMBER D.02

23-SEP-2002 10:24 sklundr w:\Projects\19218500A9\DESIGN\K\19218094.d02 AS-BUILT PLANS, FOR INFORMATION ONLY



DESIGN TEAM NICHOLSON/KLUNDER METRIC IOWA DOT * OFFICE OF DESIGN CHICK./FLOYD COUNTY PROJECT NUMBER NHSN-218-9(94)--2R-19 SHEET NUMBER D.03

23-SEP-2002 10:24 sklund w:\Projects\19218500A9\DESIGN\K19218094.d03 AS-BUILT PLANS, FOR INFORMATION ONLY

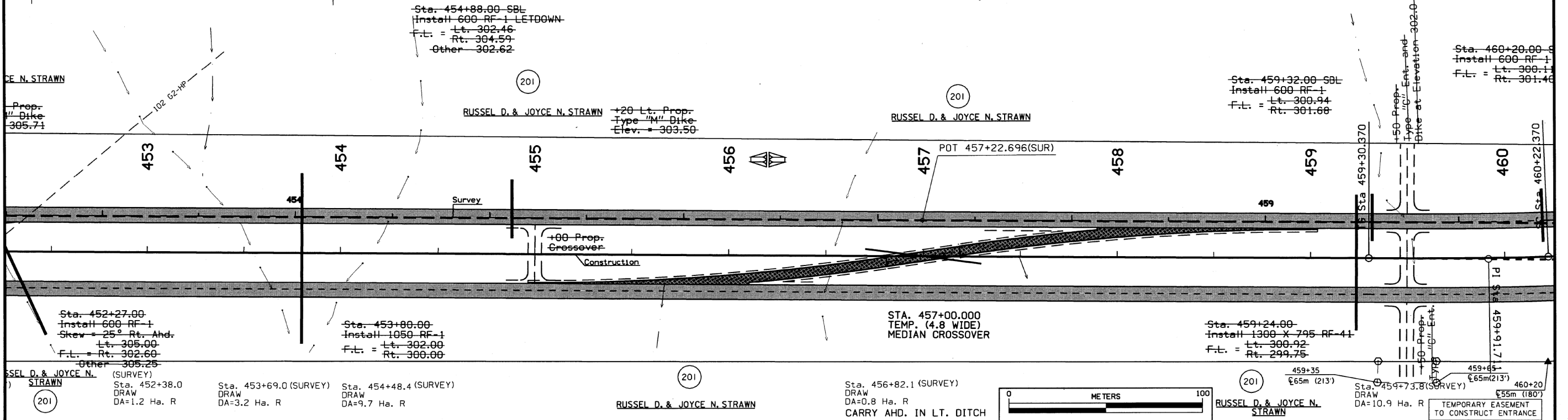


DESIGN TEAM NICHOLSON/KLUNDER METRIC IOWA DOT * OFFICE OF DESIGN CHICK./FLOYD COUNTY PROJECT NUMBER NHSN-218-9(94)--2R-19 SHEET NUMBER D.04

23-SEP-2002 10:25 sklund w:\Projects\19218500A9\DESIGN\K19218094.d04 AS-BUILT PLANS, FOR INFORMATION ONLY

RIVERTON TWP.
T-94N R-15W
SEC. 12

ACCESS LOCATIONS
Sta. 459+50 Lt. & Rt.



Sta. 452+27.00
Install 600 RF-1
Skew = 25° Rt. Ahd.
Lt. 305.00
F.L. = Rt. 302.60
Other 305.25

Sta. 453+80.00
Install 1050 RF-1
Lt. 302.00
Rt. 300.00

Sta. 454+88.00 SBL
Install 600 RF-1 LETDOWN
F.L. = Lt. 302.46
Rt. 304.59
Other 302.62

Sta. 453+69.0 (SURVEY)
DRAW
DA=3.2 Ha. R

Sta. 454+48.4 (SURVEY)
DRAW
DA=9.7 Ha. R

Sta. 456+82.1 (SURVEY)
DRAW
DA=0.8 Ha. R
CARRY AHD. IN LT. DITCH

Sta. 459+24.00
Install 1300 X 795 RF-41
F.L. = Lt. 300.92
Rt. 299.75

Sta. 459+32.00 SBL
Install 600 RF-1
F.L. = Lt. 300.94
Rt. 301.68

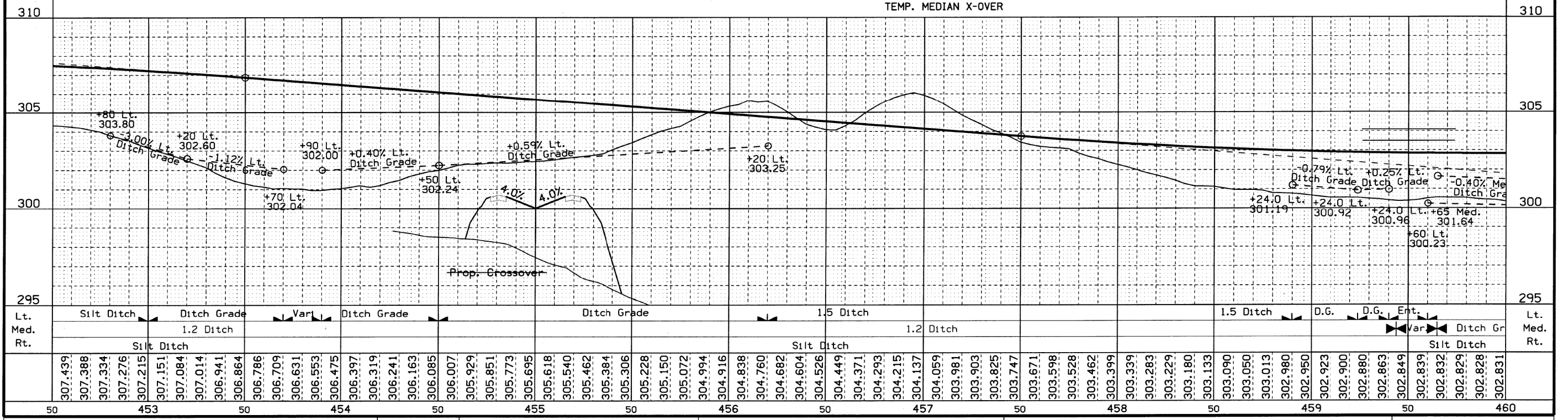
Sta. 460+20.00 SBL
Install 600 RF-1
F.L. = Lt. 300.11
Rt. 301.46

Sta. 459+30.370
Type "U" Ent. and
Dike at Elevation 302.0 m

Sta. 459+91.7
Type "U" Ent.

Sta. 459+73.8 (SURVEY)
DRAW
DA=10.9 Ha. R

TEMPORARY EASEMENT
TO CONSTRUCT ENTRANCE



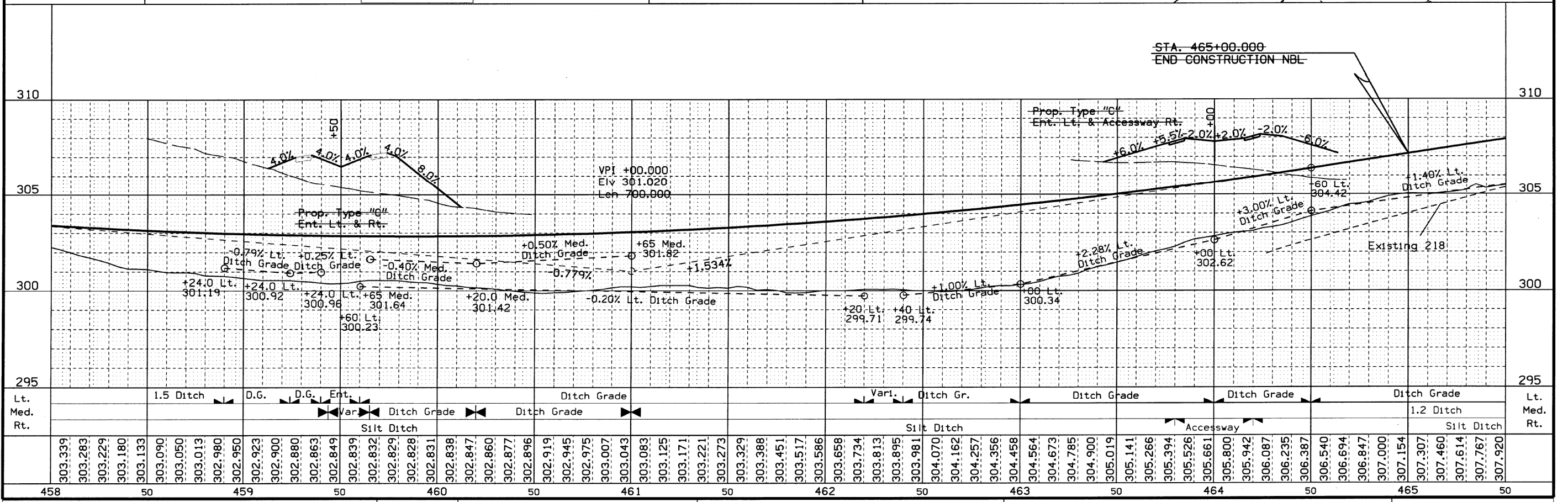
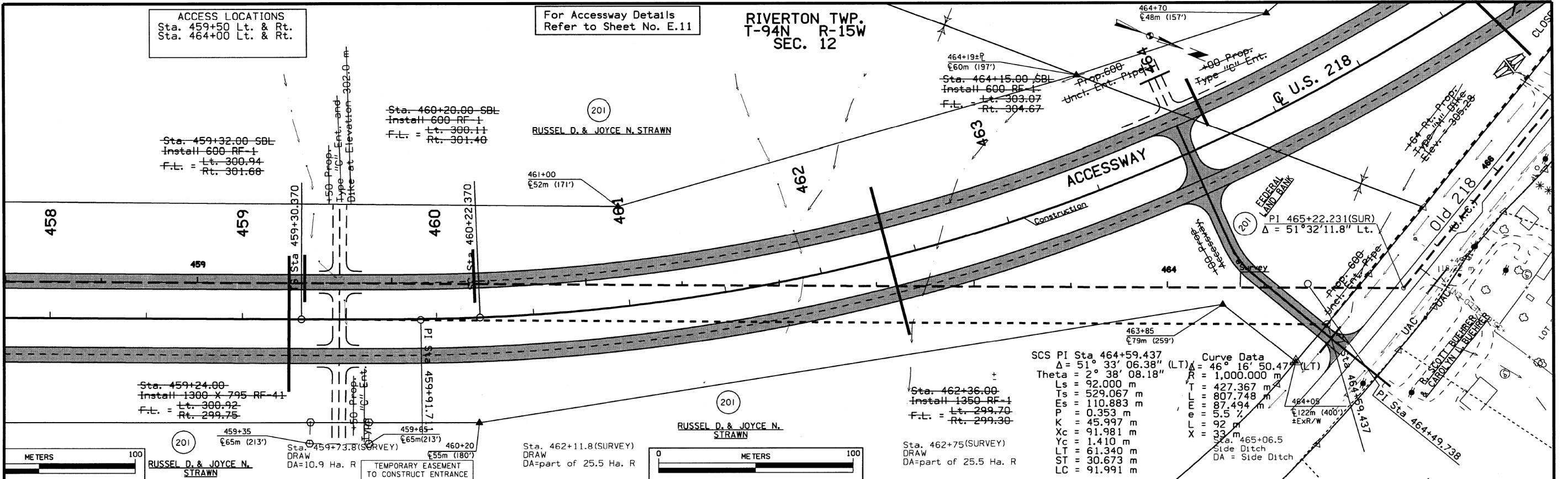
DESIGN TEAM NICHOLSON/KLUNDER METRIC IOWA DOT * OFFICE OF DESIGN CHICK./FLOYD COUNTY PROJECT NUMBER NHSN-218-9(94)--2R-19 SHEET NUMBER D.06

23-SEP-2002 10:27 sklund w:\Projects\19218500491\DESIGN\19218094.d06 AS-BUILT PLANS, FOR INFORMATION ONLY

RIVERTON TWP.
T-94N R-15W
SEC. 12

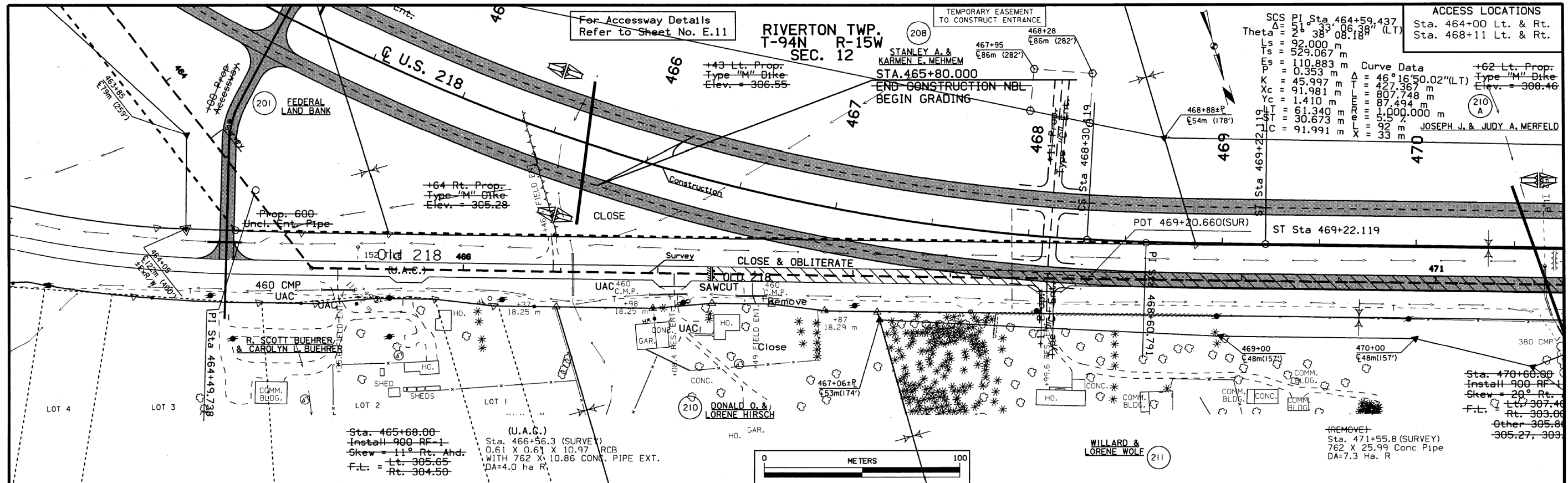
ACCESS LOCATIONS
Sta. 459+50 Lt. & Rt.
Sta. 464+00 Lt. & Rt.

For Accessway Details
Refer to Sheet No. E.11

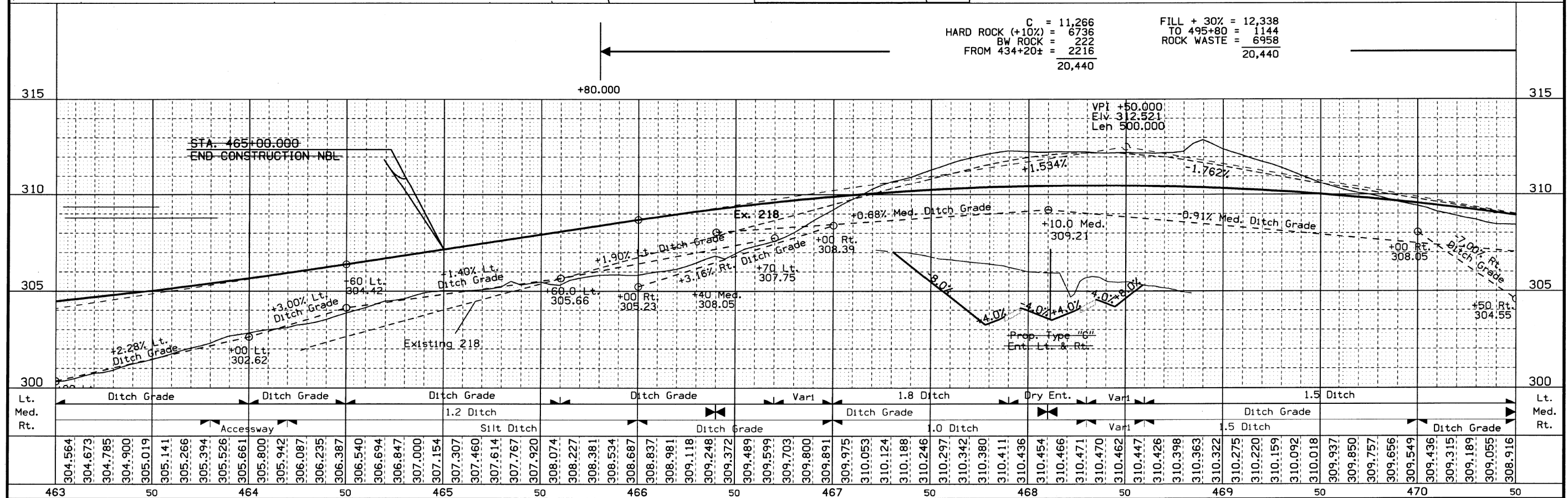


DESIGN TEAM	NICHOLSON/KLUNDER	METRIC	IOWA DOT * OFFICE OF DESIGN	CHICK./FLOYD	COUNTY	PROJECT NUMBER	NHSN-218-9(94)-2R-19	SHEET NUMBER	D.07
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23-SEP-2002 10:28 sklund w:\Projects\19218500A\1\DESIGN\19218094.d07 AS-BUILT PLANS, FOR INFORMATION ONLY

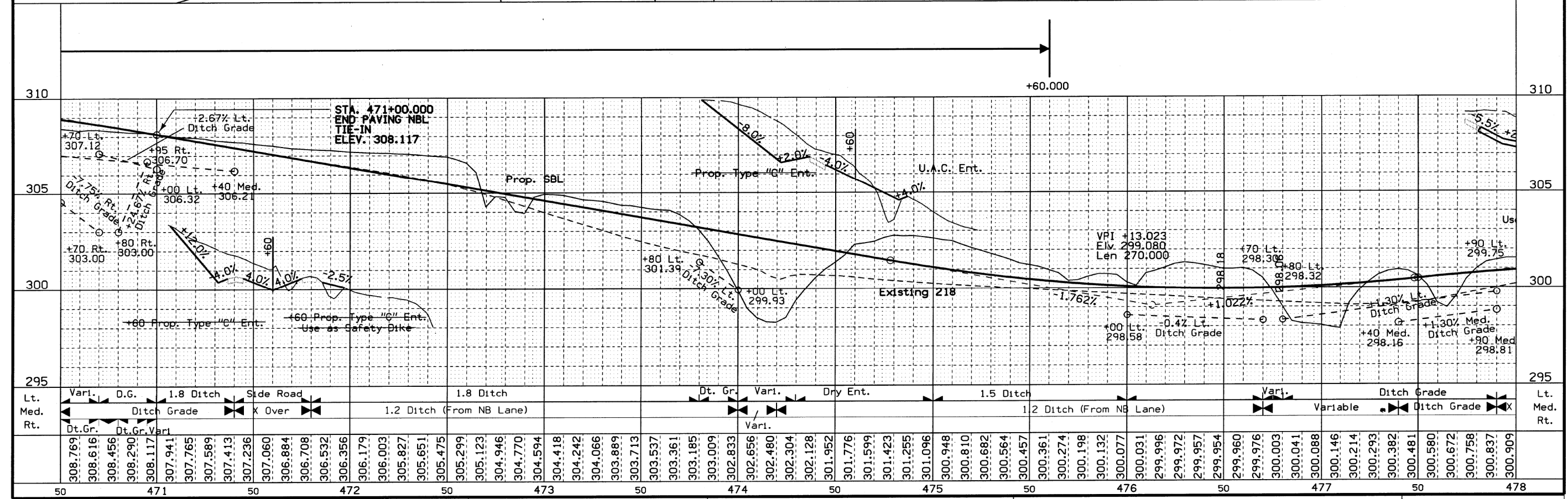
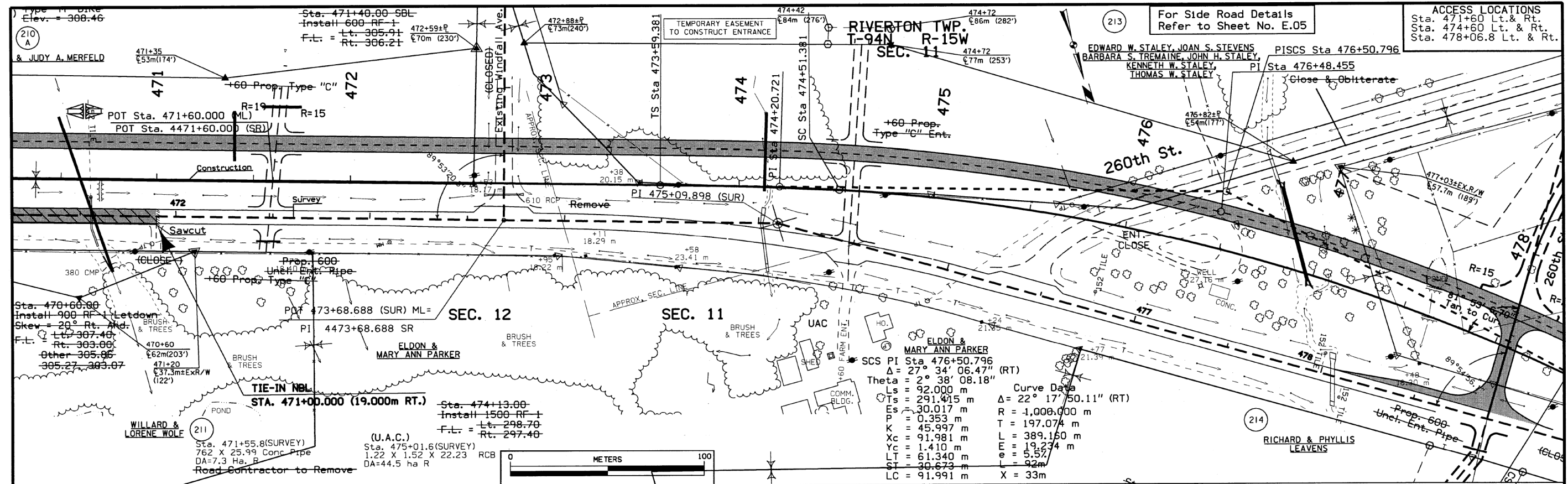


C	=	11,266	FILL + 30% =	12,338
HARD ROCK (+10%)	=	6736	TO 495+80 =	1144
BW ROCK	=	222	ROCK WASTE =	6958
FROM 434+20±	=	2216		20,440
		20,440		



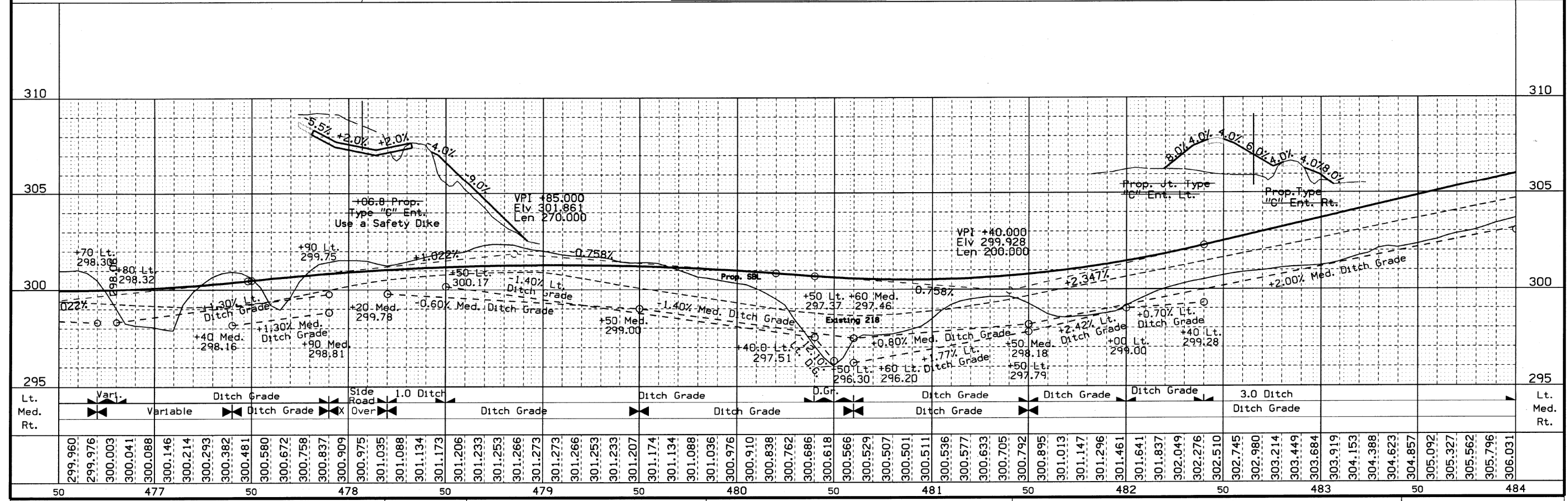
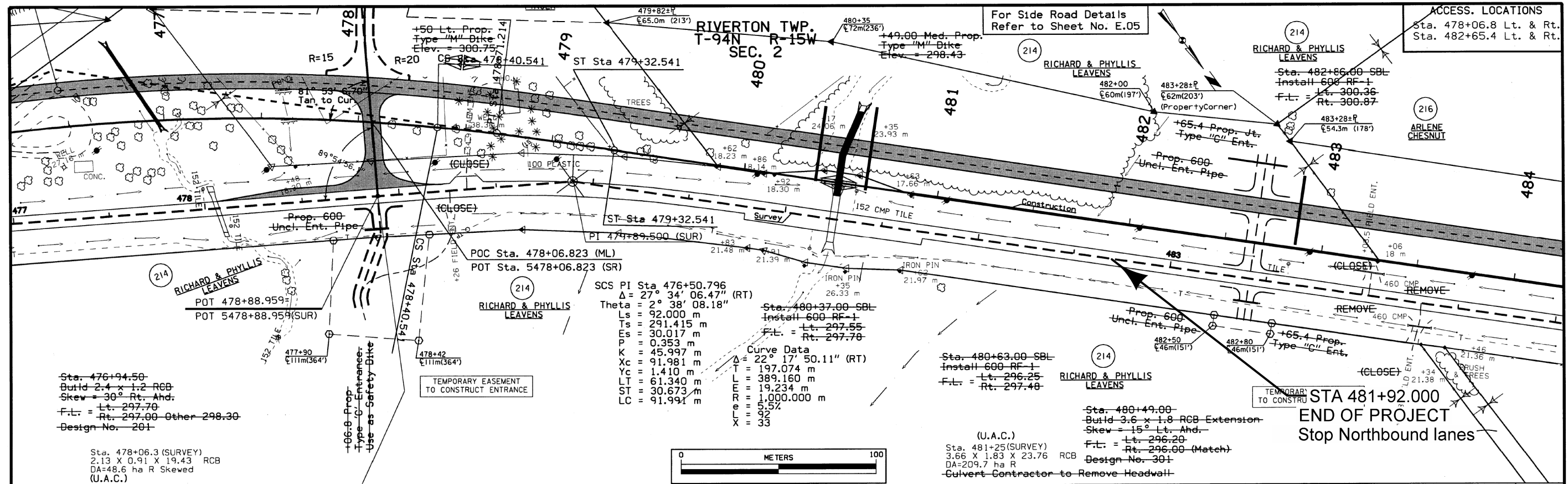
DESIGN TEAM NICHOLSON/KLUNDER METRIC IOWA DOT * OFFICE OF DESIGN CHICK./FLOYD COUNTY PROJECT NUMBER NHSN-218-9(94)--2R-19 SHEET NUMBER D.08

23-SEP-2002 10:29 sklund w:\Projects\1921850049\DESIGN\19218094.d08 AS-BUILT PLANS, FOR INFORMATION ONLY



DESIGN TEAM NICHOLSON/KLUNDER METRIC IOWA DOT * OFFICE OF DESIGN CHICK./FLOYD COUNTY PROJECT NUMBER NHSN-218-9(94)--2R-19 SHEET NUMBER D.09

23-SEP-2002 10:30 sklund w:\Projects\19218500A91\DESIGN\k19218094.d09 AS-BUILT PLANS, FOR INFORMATION ONLY



DESIGN TEAM NICHOLSON/KLUNDER METRIC IOWA DOT * OFFICE OF DESIGN CHICK./FLOYD COUNTY PROJECT NUMBER NHSN-218-9(94)--2R-19 SHEET NUMBER D.10

23-SEP-2002 10:30 sklund w:\Projects\19218500A91\DESIGN\k19218094.d10 AS-BUILT PLANS, FOR INFORMATION ONLY

CIRCULAR CURVE DATA

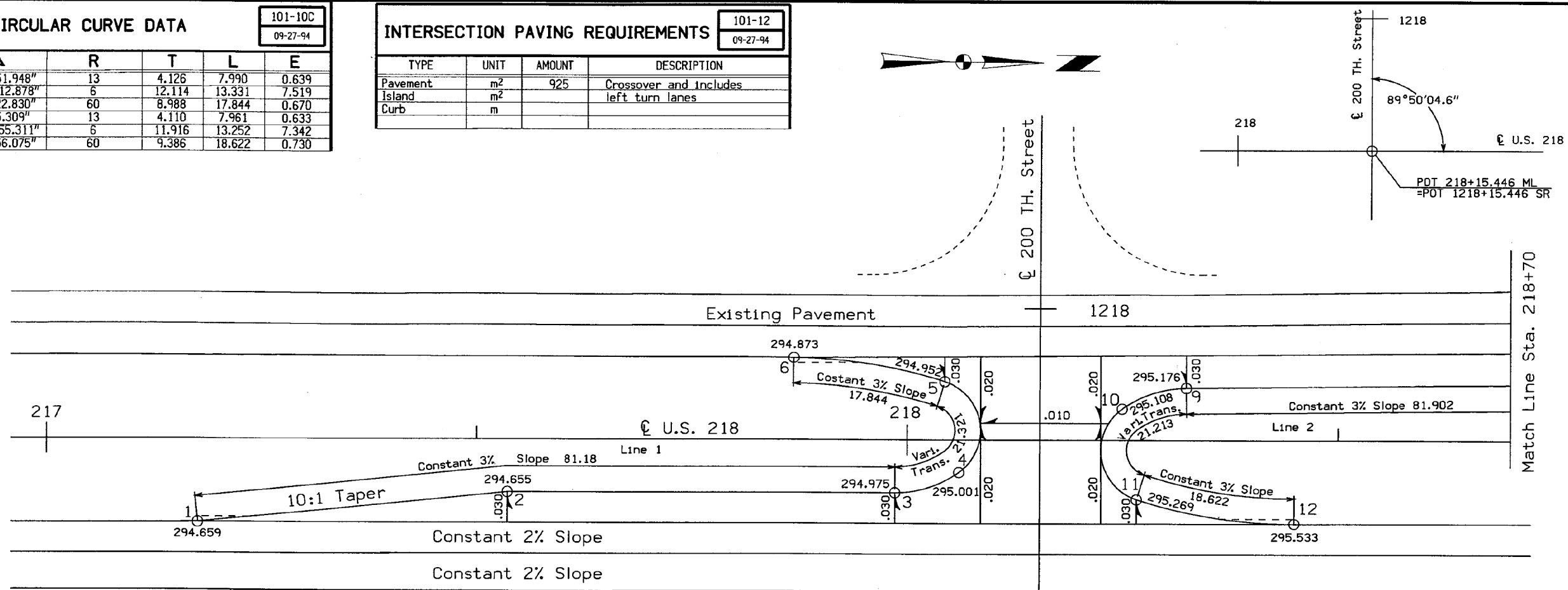
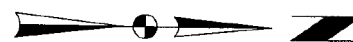
101-10C
09-27-94

NO.	Δ	R	T	L	E
3-4	35°12'51.948"	13	4.126	7.990	0.639
4-5	127°18'12.878"	6	12.114	13.331	7.519
5-6	17°2'22.830"	60	8.988	17.844	0.670
9-10	35°5'5.309"	13	4.110	7.961	0.633
10-11	126°32'55.311"	6	11.916	13.252	7.342
11-12	17°46'56.075"	60	9.386	18.622	0.730

INTERSECTION PAVING REQUIREMENTS

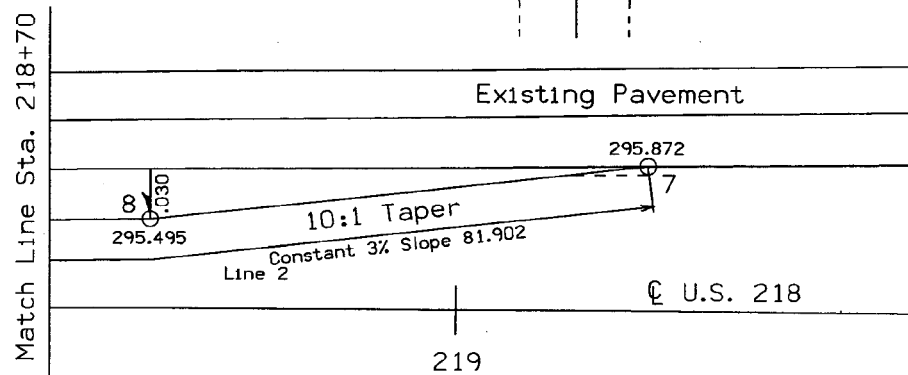
101-12
09-27-94

TYPE	UNIT	AMOUNT	DESCRIPTION
Pavement	m ²	925	Crossover and Includes
Island	m ²		left turn lanes
Curb	m		



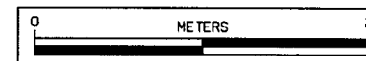
POINT NO.	STATION	OFFSET
1	217+17.581	US 218 9.750 Rt.
2	217+53.581	US 218 6.150 Rt.
3	217+98.582	US 218 6.150 Rt.
4	218+06.078	US 218 3.770 Rt.
4	1218+19.243	200 TH. 9.357 Rt.
5	218+04.420	US 218 6.855 Lt.
5	1218+08.623	200 TH. 11.046 Rt.
6	217+86.860	US 218 9.624 Lt.
7	219+14.028	US 218 10.732 Lt.
8	218+77.405	US 218 6.601 Lt.
9	218+32.408	US 218 6.142 Lt.
10	218+24.960	US 218 3.704 Lt.
10	1218+11.714	200 TH. 9.503 Lt.
11	218+26.627	US 218 6.884 Rt.
11	1218+22.297	200 TH. 11.200 Lt.
12	218+44.948	US 218 9.750 Rt.

Add U sheets to cover median paving details. This information should be coordinated with (139) and (140).



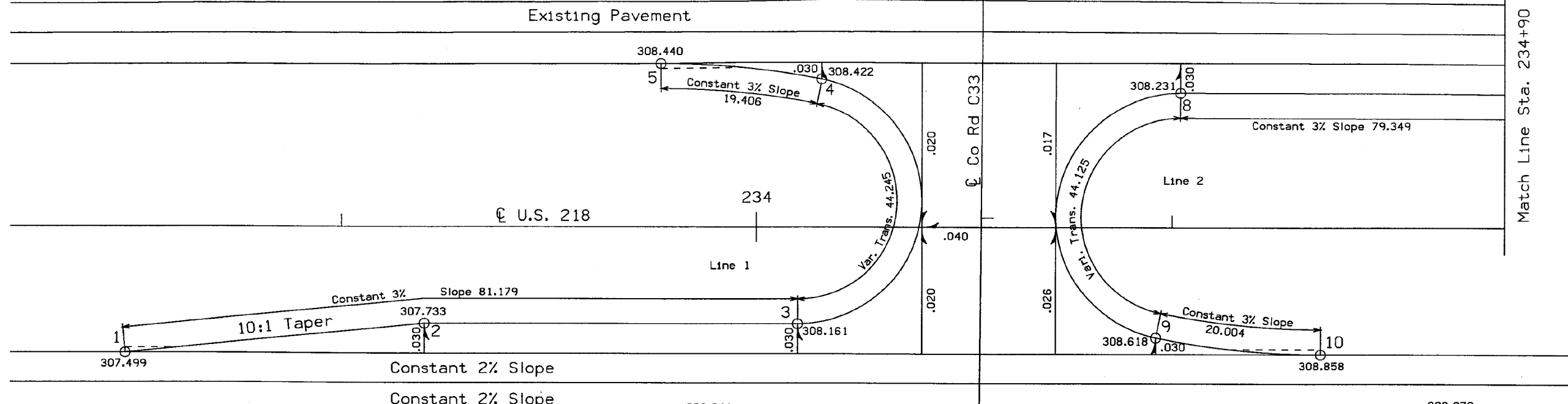
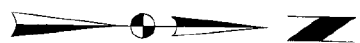
Notes:
(1) For edge profile information See Sheet L.02

Geometric & Staking
Layout of the Crossover
of U.S. 218 and 200 TH. Street

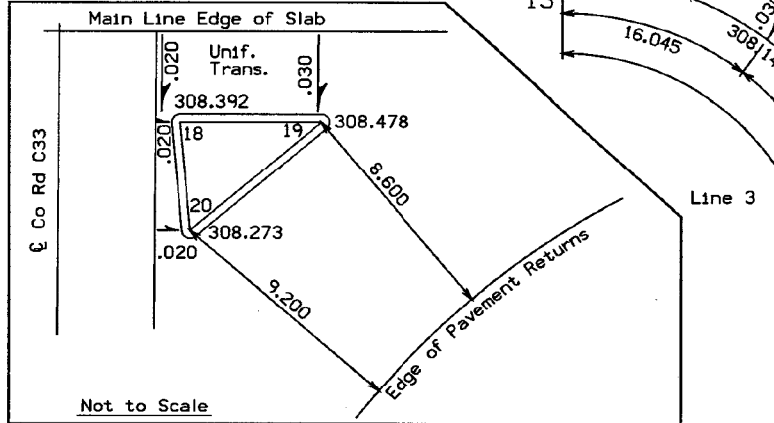


Add missing information.

AS-BUILT PLANS, FOR INFORMATION ONLY



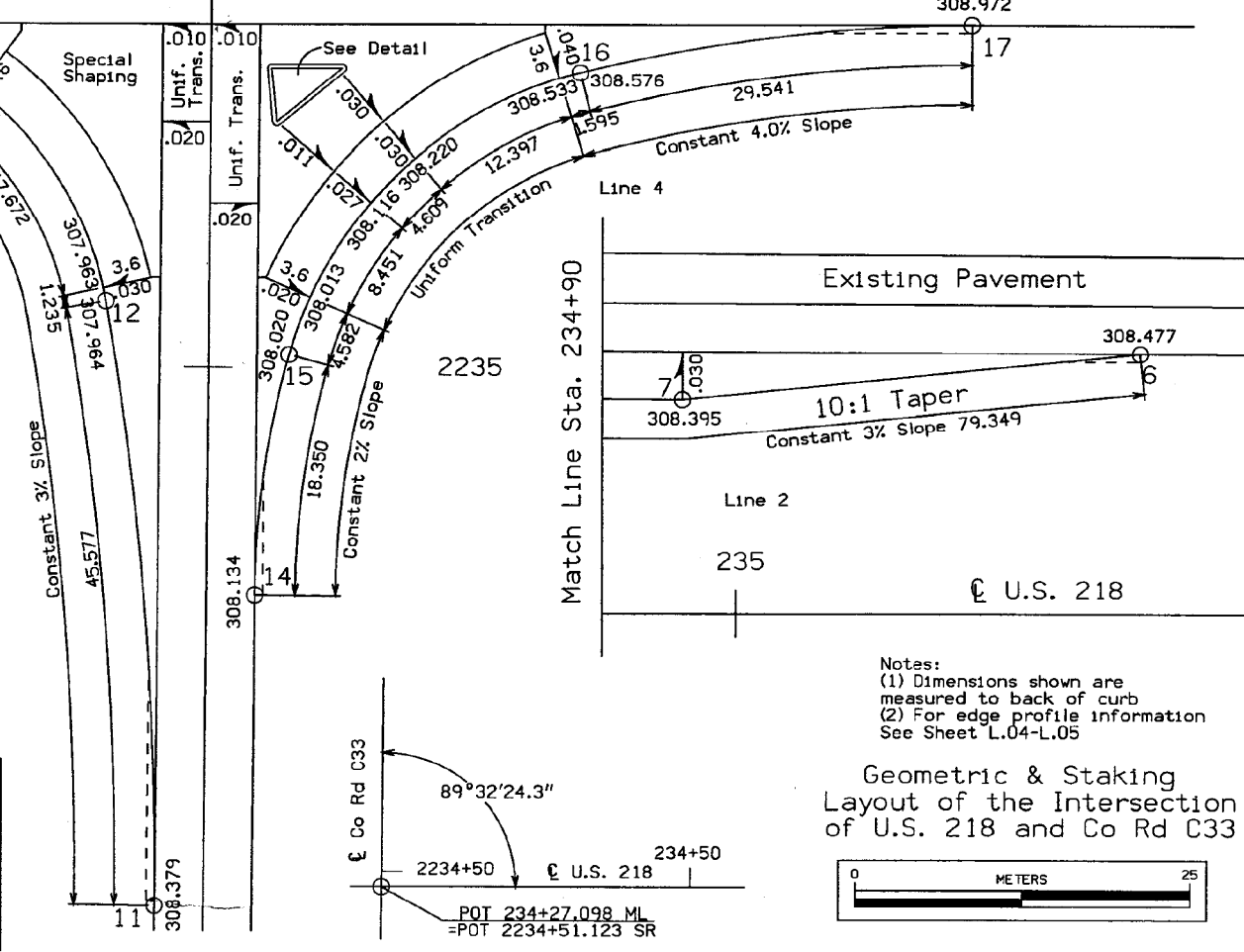
POINT NO.	STATION	OFFSET
1	233+23.940	US 218 15.400 Rt.
2	233+59.940	US 218 11.800 Rt.
3	234+04.940	US 218 11.800 Rt.
4	234+07.802	US 218 17.926 Lt.
5	233+88.513	US 218 19.763 Lt.
6	235+30.172	US 218 19.552 Lt.
7	234+95.994	US 218 16.134 Lt.
8	234+50.994	US 218 16.296 Lt.
9	234+48.012	US 218 13.405 Rt.
10	234+67.882	US 218 15.400 Rt.
11	2235+40.432	Co Rd C33 3.600 Rt.
12	2234+95.099	Co Rd C33 7.673 Rt.
12	234+19.022	US 218 43.904 Rt.
13	233+94.394	US 218 23.200 Rt.
14	2235+17.133	Co Rd C33 3.600 Lt.
15	2234+98.992	Co Rd C33 5.991 Lt.
15	234+32.654	US 218 47.907 Rt.
16	234+54.255	US 218 26.818 Rt.
17	234+83.498	US 218 23.200 Rt.
18	234+31.335	US 218 26.500 Rt.
18	2234+77.596	Co Rd C33 4.500 Lt.
19	234+36.571	US 218 26.500 Rt.
19	2234+77.554	Co Rd C33 9.736 Lt.
20	234+31.703	US 218 30.520 Rt.
20	2234+81.614	Co Rd C33 4.900 Lt.



INTERSECTION PAVING REQUIREMENTS				101-12
				09-27-94
TYPE	UNIT	AMOUNT	DESCRIPTION	
Pavement	m ²	1400	Crossover and includes	
Island	m ²		left turn lanes	
Curb	m			

CIRCULAR CURVE DATA						101-10C
						09-27-94
NO.	Δ	R	T	L	E	
3-4	169°0'8.994"	15	155.817	44.245	141.537	
4-5	11°7'8.669"	100	9.734	19.406	0.473	
8-9	168°32'43.662"	15	149.560	44.125	135.311	
9-10	11°27'40.409"	100	10.035	20.004	0.502	
11-12	10°26'43.421"	250	22.852	45.577	1.042	
12-13	11°7'8.669"	25	21.016	34.952	7.663	
14-15	15°1'11.144"	70	9.228	18.350	0.606	
15-16	60°24'56.814"	30	17.466	31.634	4.714	
16-17	14°6'16.341"	120	14.845	29.541	0.915	

INTERSECTION PAVING REQUIREMENTS				101-12
				09-27-94
TYPE	UNIT	AMOUNT	DESCRIPTION	
Pavement	m ²	1095	From Mainline E.O.S. to	
Island	m ²	11	Sta. 2235+40.432	
Curb	m	18		



Notes:
 (1) Dimensions shown are measured to back of curb
 (2) For edge profile information See Sheet L.04-L.05

Geometric & Staking
 Layout of the Intersection
 of U.S. 218 and Co Rd C33

AS-BUILT PLANS, FOR INFORMATION ONLY

CIRCULAR CURVE DATA

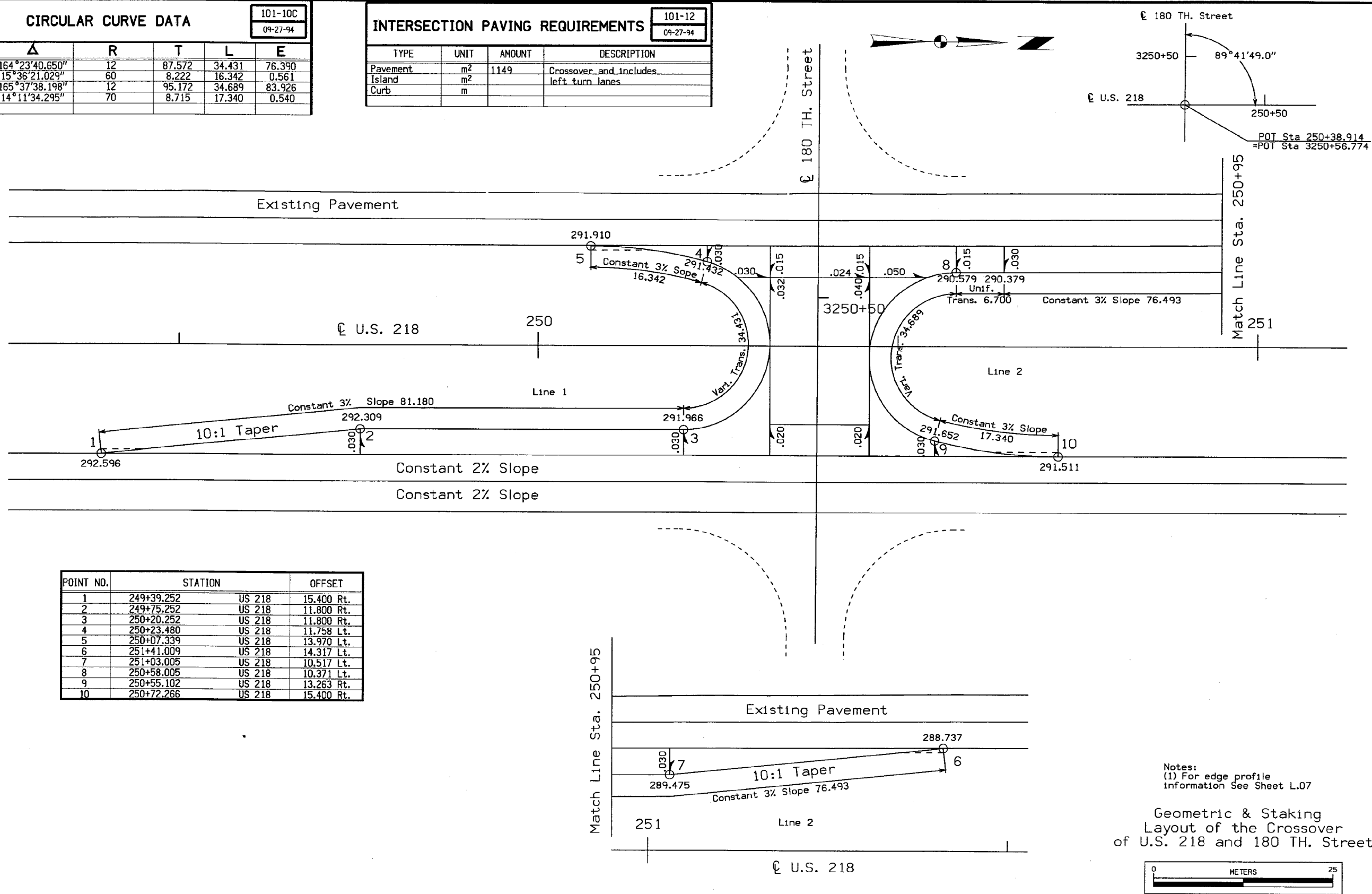
101-10C
09-27-94

NO.	Δ	R	T	L	E
3-4	164°23'40.650"	12	87.572	34.431	76.390
4-5	15°36'21.029"	60	8.222	16.342	0.561
8-9	165°37'38.198"	12	95.172	34.689	83.926
9-10	14°11'34.295"	70	8.715	17.340	0.540

INTERSECTION PAVING REQUIREMENTS

101-12
09-27-94

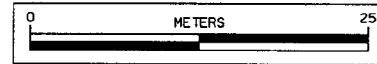
TYPE	UNIT	AMOUNT	DESCRIPTION
Pavement	m ²	1149	Crossover and includes
Island	m ²		left turn lanes
Curb	m		



POINT NO.	STATION	OFFSET
1	249+39.252	US 218 15.400 Rt.
2	249+75.252	US 218 11.800 Rt.
3	250+20.252	US 218 11.800 Rt.
4	250+23.480	US 218 11.758 Lt.
5	250+07.339	US 218 13.970 Lt.
6	251+41.009	US 218 14.317 Lt.
7	251+03.005	US 218 10.517 Lt.
8	250+58.005	US 218 10.371 Lt.
9	250+55.102	US 218 13.263 Rt.
10	250+72.266	US 218 15.400 Rt.

Notes:
(1) For edge profile information See Sheet L.07

Geometric & Staking
Layout of the Crossover
of U.S. 218 and 180 TH. Street



AS-BUILT PLANS, FOR INFORMATION ONLY

CIRCULAR CURVE DATA

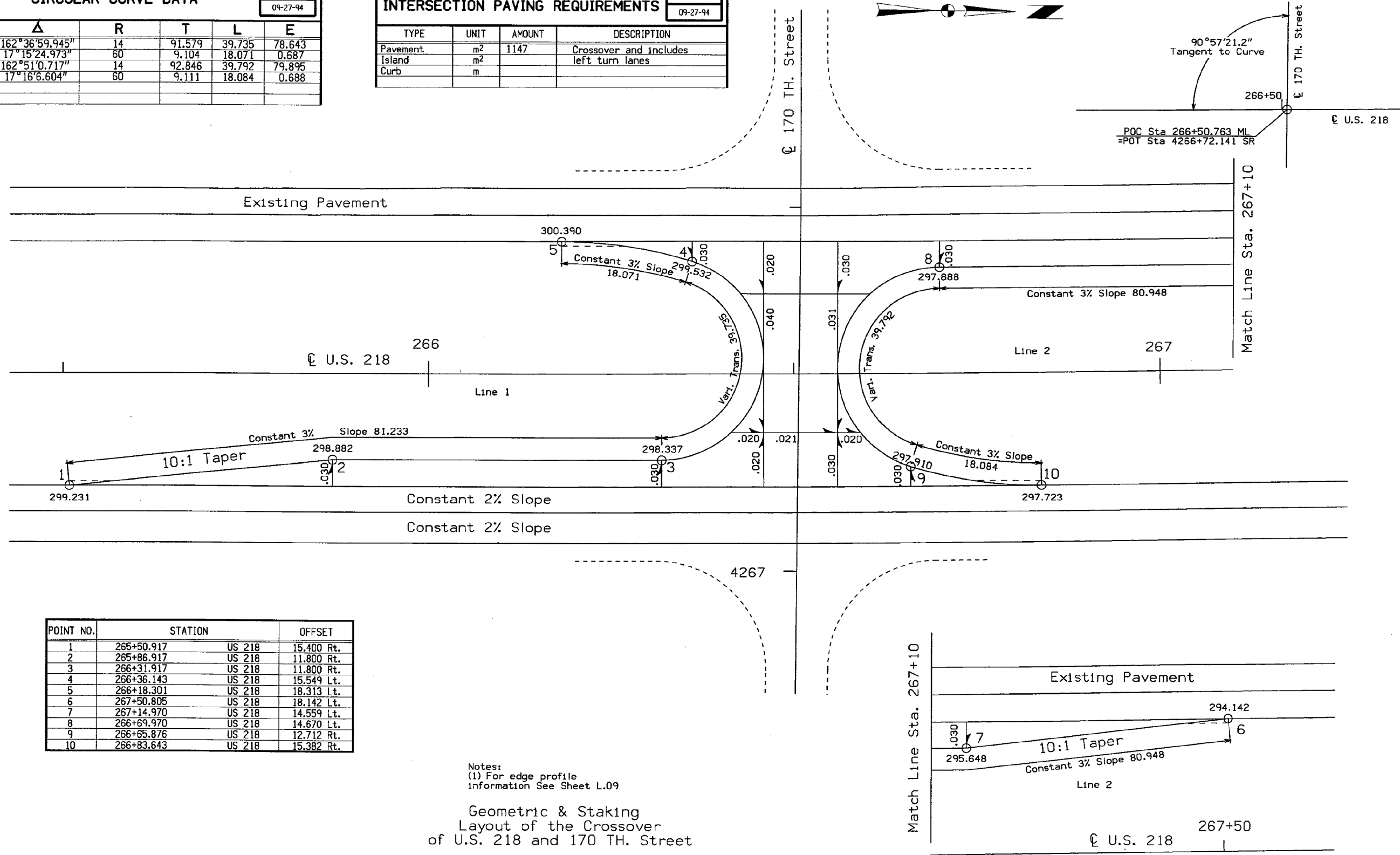
101-10C
09-27-94

NO.	Δ	R	T	L	E
3-4	162°36'59.945"	14	91.579	39.735	78.643
4-5	17°15'24.973"	60	9.104	18.071	0.687
8-9	162°51'0.717"	14	92.846	39.792	79.895
9-10	17°16'6.604"	60	9.111	18.084	0.688

INTERSECTION PAVING REQUIREMENTS

101-12
09-27-94

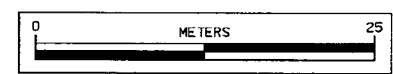
TYPE	UNIT	AMOUNT	DESCRIPTION
Pavement	m ²	1147	Crossover and includes
Island	m ²		left turn lanes
Curb	m		



POINT NO.	STATION	US 218	OFFSET
1	265+50.917	US 218	15.400 Rt.
2	265+86.917	US 218	11.800 Rt.
3	266+31.917	US 218	11.800 Rt.
4	266+36.143	US 218	15.549 Lt.
5	266+18.301	US 218	18.313 Lt.
6	267+50.805	US 218	18.142 Lt.
7	267+14.970	US 218	14.559 Lt.
8	266+69.970	US 218	14.670 Lt.
9	266+65.876	US 218	12.712 Rt.
10	266+83.643	US 218	15.382 Rt.

Notes:
(1) For edge profile information See Sheet L.09

Geometric & Staking
Layout of the Crossover
of U.S. 218 and 170 TH. Street



AS-BUILT PLANS, FOR INFORMATION ONLY

CIRCULAR CURVE DATA

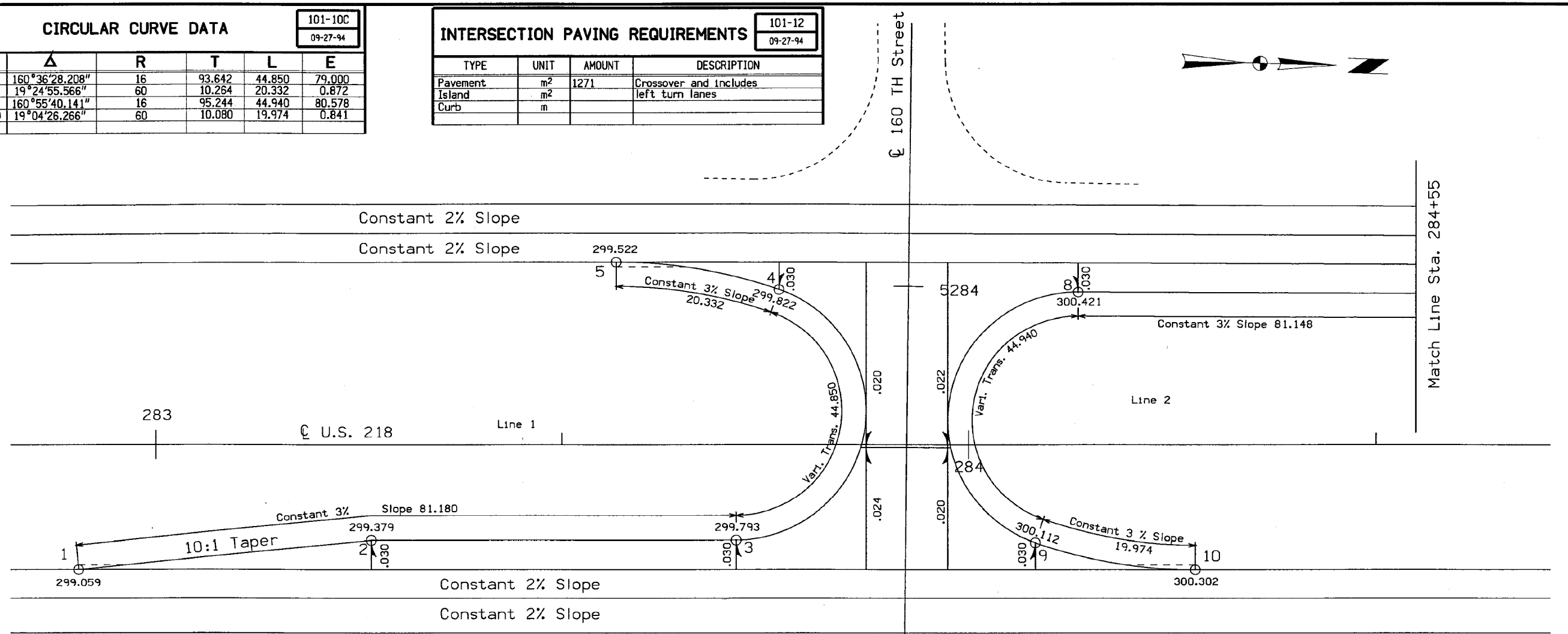
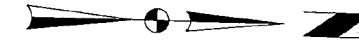
101-10C
09-27-94

NO.	Δ	R	T	L	E
3-4	160°36'28.208"	16	93.642	44.850	79.000
4-5	19°24'55.566"	60	10.264	20.332	0.872
8-9	160°55'40.141"	16	95.244	44.940	80.578
9-10	19°04'26.266"	60	10.080	19.974	0.841

INTERSECTION PAVING REQUIREMENTS

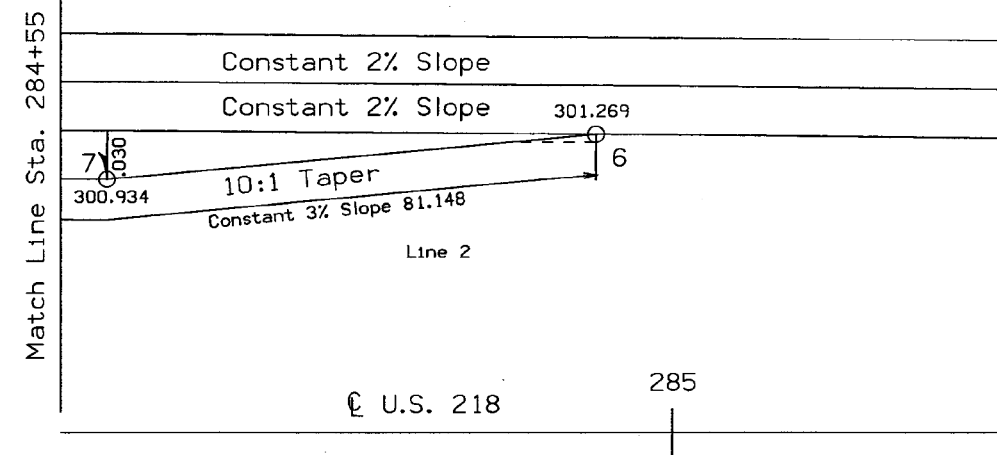
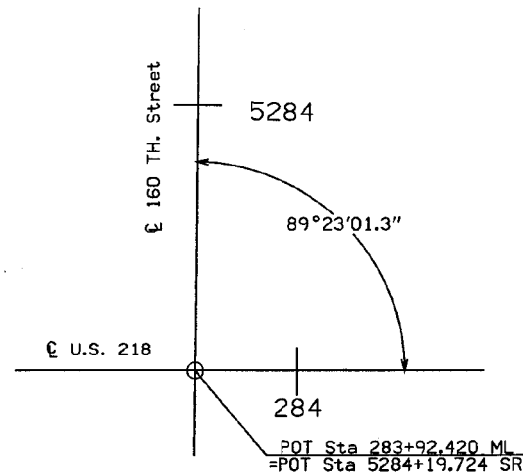
101-12
09-27-94

TYPE	UNIT	AMOUNT	DESCRIPTION
Pavement	m ²	1271	Crossover and includes
Island	m ²		left turn lanes
Curb	m		



POINT NO.	STATION	OFFSET
1	282+90.473	US 218
2	283+26.473	US 218
3	283+71.473	US 218
4	283+76.686	US 218
5		US 218
6	284+94.424	US 218
7	284+58.409	US 218
8	284+13.429	US 218
9	284+08.201	US 218
10	284+27.808	US 218

Notes:
(1) For edge profile information See Sheet L.11
Geometric & Staking Layout of the Crossover of U.S. 218 and 160 TH. Street



Match Line Sta. 284+55

DESIGN TEAM NICHOLSON/JENSEN

METRIC

IOWA DOT * OFFICE OF DESIGN

BREMER COUNTY

PROJECT NUMBER NHSX-218-8(66)--3H-09

SHEET NUMBER L.10

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AS-BUILT PLANS, FOR INFORMATION ONLY

CIRCULAR CURVE DATA

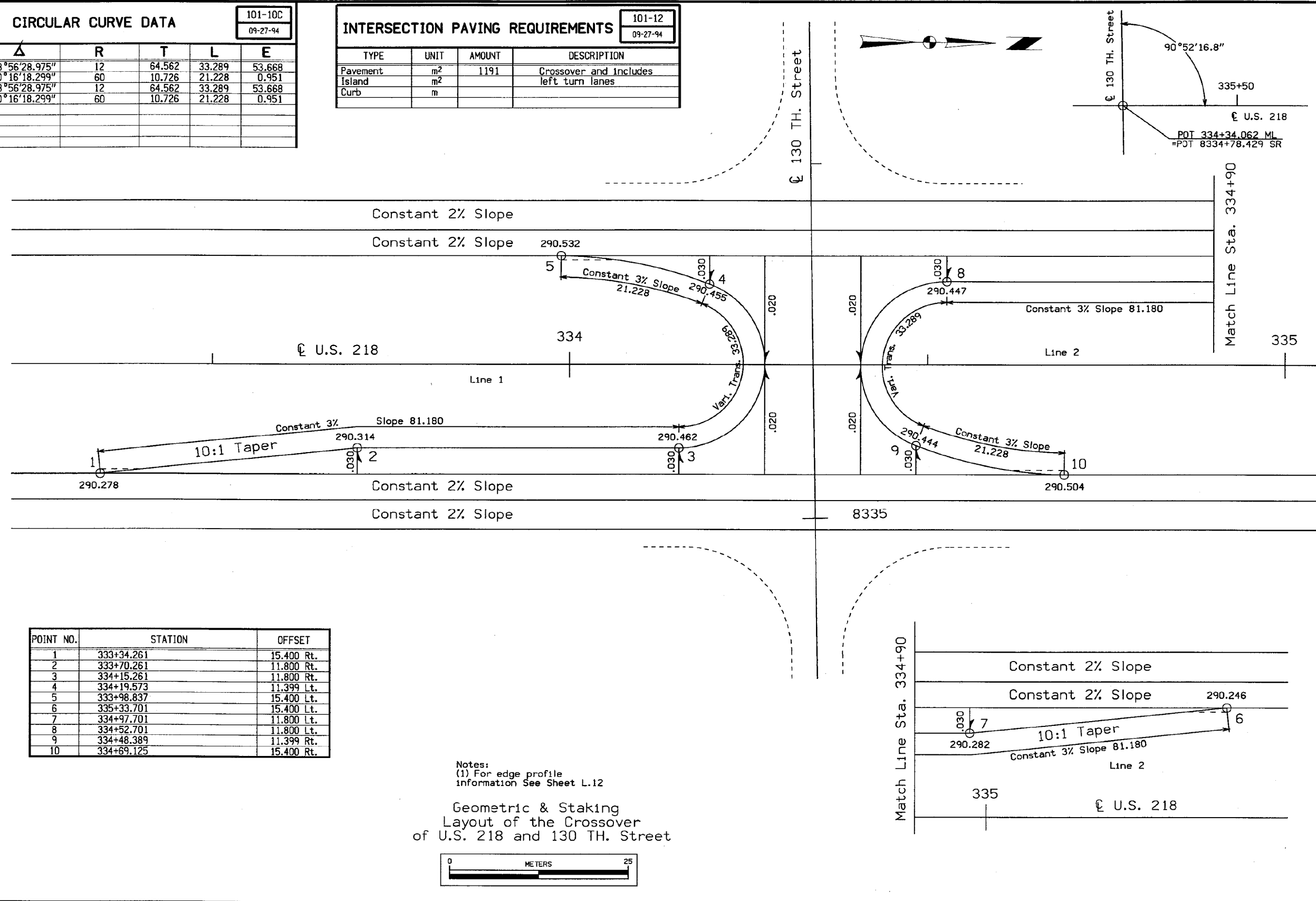
101-10C
09-27-94

NO.	Δ	R	T	L	E
3-4	158°56'28.975"	12	64.562	33.289	53.668
4-5	20°16'18.299"	60	10.726	21.228	0.951
8-9	158°56'28.975"	12	64.562	33.289	53.668
9-10	20°16'18.299"	60	10.726	21.228	0.951

INTERSECTION PAVING REQUIREMENTS

101-12
09-27-94

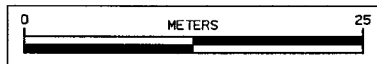
TYPE	UNIT	AMOUNT	DESCRIPTION
Pavement	m ²	1191	Crossover and Includes
Island	m ²		left turn lanes
Curb	m		



POINT NO.	STATION	OFFSET
1	333+34.261	15.400 Rt.
2	333+70.261	11.800 Rt.
3	334+15.261	11.800 Rt.
4	334+19.573	11.399 Lt.
5	333+98.837	15.400 Lt.
6	335+33.701	15.400 Lt.
7	334+97.701	11.800 Lt.
8	334+52.701	11.800 Lt.
9	334+48.389	11.399 Rt.
10	334+69.125	15.400 Rt.

Notes:
(1) For edge profile information See Sheet L.12

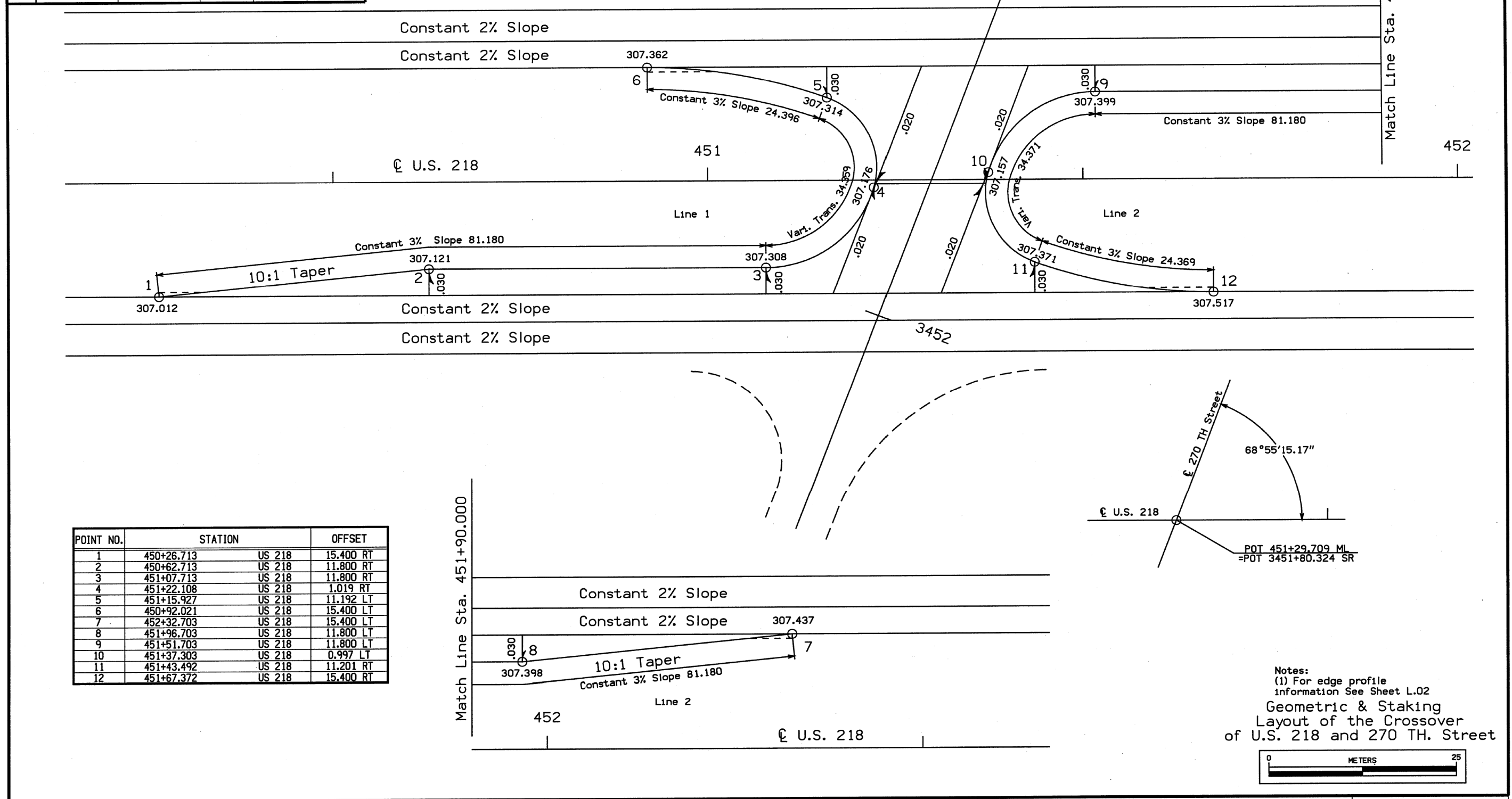
Geometric & Staking
Layout of the Crossover
of U.S. 218 and 130 TH. Street



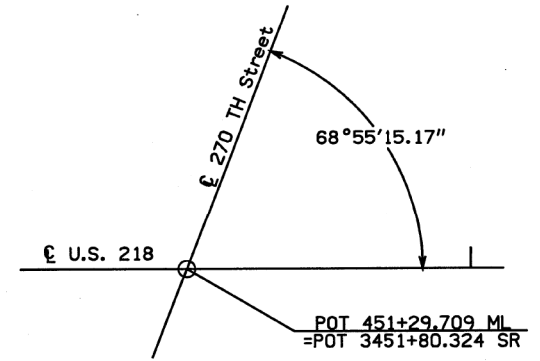
AS-BUILT PLANS, FOR INFORMATION ONLY

CIRCULAR CURVE DATA					
101-10C 09-27-94					
NO.	Δ	R	T	L	E
3-4	73°39'47.065"	15	11.234	19.285	3.741
4-5	86°22'07.932"	10	9.386	15.074	3.715
5-6	19°58'06.094"	70	12.323	24.396	1.076
9-10	73°45'16.325"	15	11.253	19.309	3.752
10-11	86°17'54.233"	10	9.374	15.062	3.707
11-12	19°56'47.451"	70	12.309	24.369	1.074

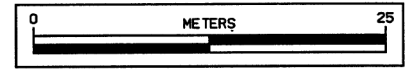
INTERSECTION PAVING REQUIREMENTS			
101-12 09-27-94			
TYPE	UNIT	AMOUNT	DESCRIPTION
Pavement	m ²	1261	Crossover and includes
Island	m ²		left turnlanes
Curb	m		



POINT NO.	STATION	OFFSET
1	450+26.713	US 218 15.400 RT
2	450+62.713	US 218 11.800 RT
3	451+07.713	US 218 11.800 RT
4	451+22.108	US 218 1.019 RT
5	451+15.927	US 218 11.192 LT
6	450+92.021	US 218 15.400 LT
7	452+32.703	US 218 15.400 LT
8	451+96.703	US 218 11.800 LT
9	451+51.703	US 218 11.800 LT
10	451+37.303	US 218 0.997 LT
11	451+43.492	US 218 11.201 RT
12	451+67.372	US 218 15.400 RT



Notes:
 (1) For edge profile information See Sheet L.02
 Geometric & Staking
 Layout of the Crossover
 of U.S. 218 and 270 TH. Street



DESIGN TEAM **NICHOLSON/KLUNDER** METRIC IOWA DOT * OFFICE OF DESIGN **CHICK./FLOYD** COUNTY PROJECT NUMBER **NHSN-218-9(94)--2R-19** SHEET NUMBER **L.01**

24-SEP-2002 07:43 sklunde w:\Projects\19218500A91\DESIGN\k19218094.I01 **AS-BUILT PLANS, FOR INFORMATION ONLY**

CIRCULAR CURVE DATA					
NO.	Δ	R	T	L	E
1-2	90°00'00.000"	12	12.000	18.850	4.971
3-4	89°05'48.513"	12	11.812	18.660	4.838
5-6	89°06'30.447"	12	11.815	18.663	4.840
7-8	89°59'47.852"	12	11.999	18.849	4.970
9-10	89°07'50.056"	12	11.819	18.668	4.843
11-12	89°08'31.648"	12	11.822	18.670	4.845
13-14	90°00'00.000"	12	12.000	18.850	4.971
15-16	90°00'00.000"	12	12.000	18.850	4.971

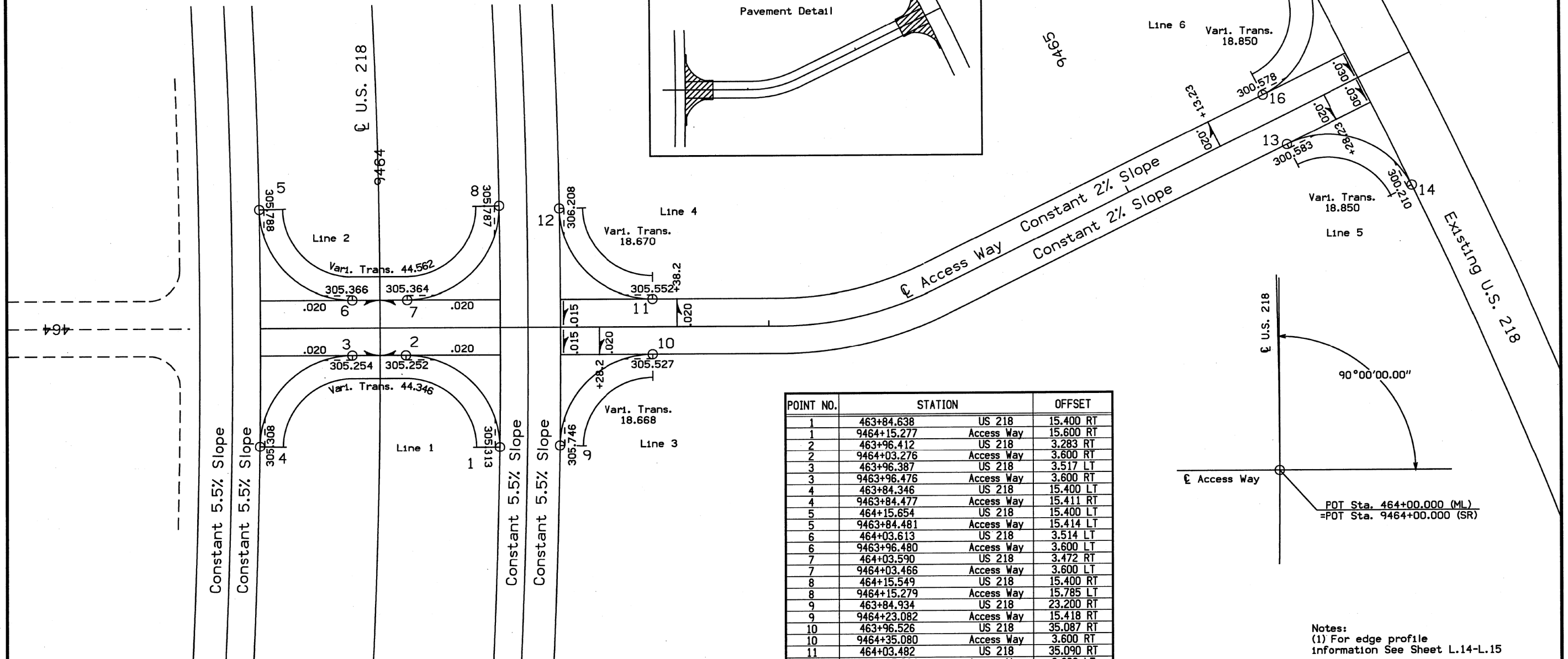
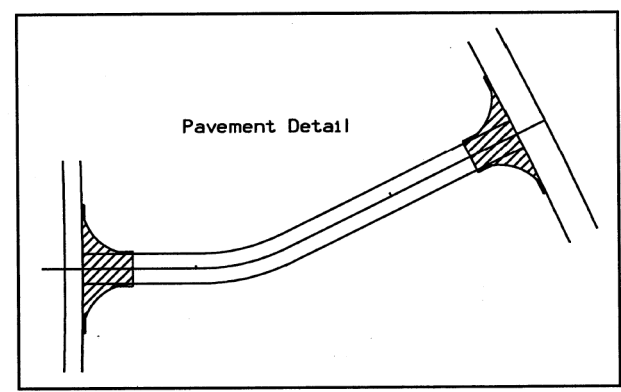
101-10C
09-27-94

INTERSECTION PAVING REQUIREMENTS			
TYPE	UNIT	AMOUNT	DESCRIPTION
Pavement	m ²	357	Crossover
Island	m ²		
Curb	m		

101-12
09-27-94

INTERSECTION PAVING REQUIREMENTS			
TYPE	UNIT	AMOUNT	DESCRIPTION
Pavement	m ²	310	See Detail: Includes Mainline
Island	m ²		E.O.S. to Sta. 9464+35.084:
Curb	m		Existing E.O.S. to Sta. 9465+33.147

101-12
09-27-94

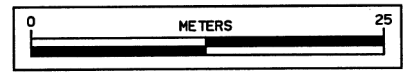


POINT NO.	STATION	OFFSET
1	463+84.638	US 218 15.400 RT
1	9464+15.277	Access Way 15.600 RT
2	463+96.412	US 218 3.283 RT
2	9464+03.276	Access Way 3.600 RT
3	463+96.387	US 218 3.517 LT
3	9463+96.476	Access Way 3.600 RT
4	463+84.346	US 218 15.400 LT
4	9463+84.477	Access Way 15.411 RT
5	464+15.654	US 218 15.400 LT
5	9463+84.481	Access Way 15.414 LT
6	464+03.613	US 218 3.514 LT
6	9463+96.480	Access Way 3.600 LT
7	464+03.590	US 218 3.472 RT
7	9464+03.466	Access Way 3.600 LT
8	464+15.549	US 218 15.400 RT
8	9464+15.279	Access Way 15.785 LT
9	463+84.934	US 218 23.200 RT
9	9464+23.082	Access Way 15.418 RT
10	463+96.526	US 218 35.087 RT
10	9464+35.080	Access Way 3.600 RT
11	464+03.482	US 218 35.090 RT
11	9464+35.084	Access Way 3.600 LT
12	464+15.075	US 218 23.200 RT
12	9464+23.086	Access Way 15.421 LT
13	9465+21.299	Access Way 3.600 RT
14	9465+33.017	Access Way 15.879 RT
15	9465+33.147	Access Way 15.781 LT
16	9465+21.329	Access Way 3.600 LT

POT Sta. 464+00.000 (ML)
=POT Sta. 9464+00.000 (SR)

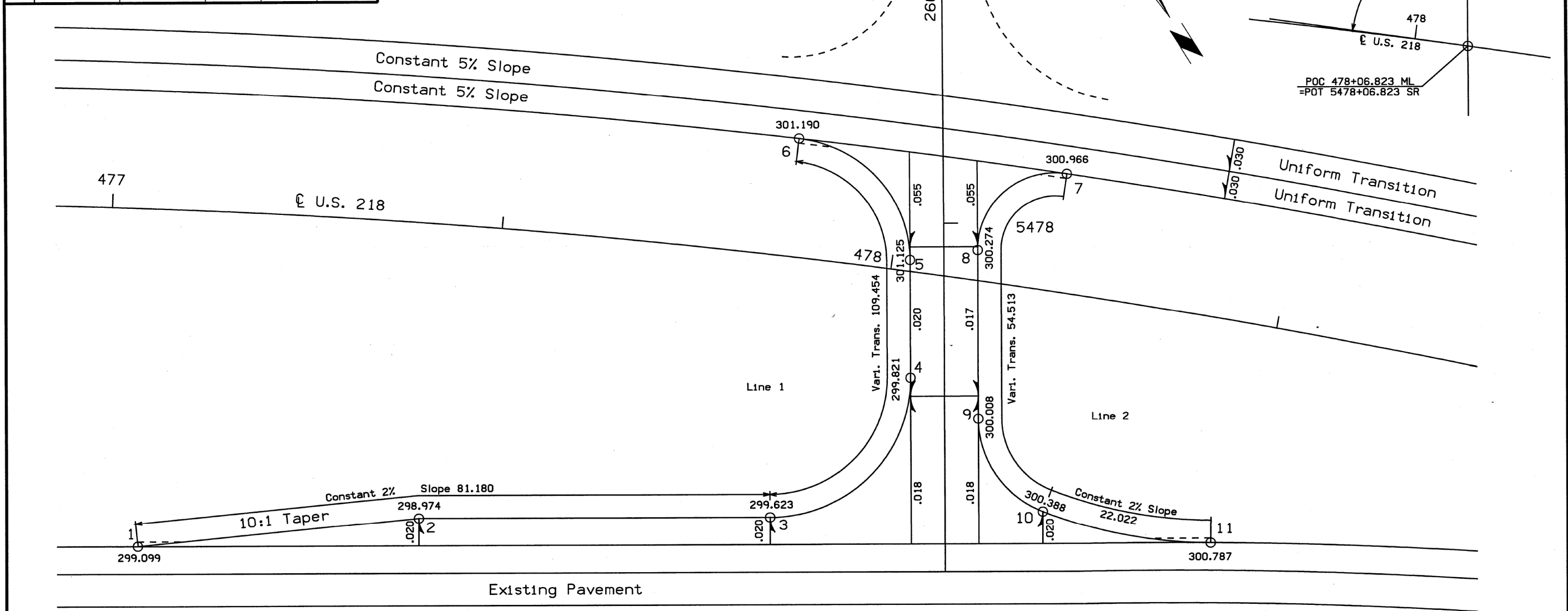
Notes:
(1) For edge profile information See Sheet L.14-L.15

Geometric & Staking
Layout of the Crossover
of U.S. 218 and Access Way



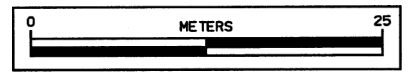
CIRCULAR CURVE DATA					
101-10C 09-27-94					
NO.	Δ	R	T	L	E
3-4	89°59'56.989"	18	18.000	28.274	7.456
5-6	83°03'12.612"	16	14.169	23.193	5.372
7-8	98°53'45.233"	10	11.687	17.261	5.381
9-10	68°18'12.215"	13	8.819	15.498	2.709
10-11	21°01'45.730"	60	11.136	22.022	1.025

INTERSECTION PAVING REQUIREMENTS			
101-12 09-27-94			
TYPE	UNIT	AMOUNT	DESCRIPTION
Pavement	m ²	965	Crossover and Includes
Island	m ²		left turn lanes
Curb	m		

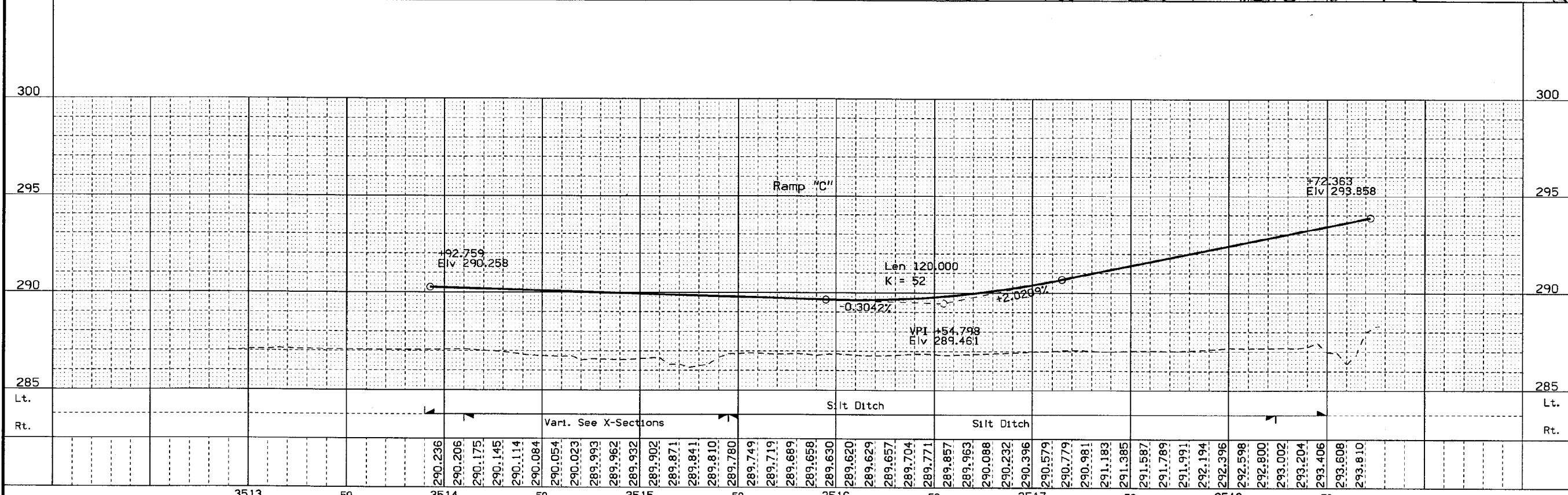
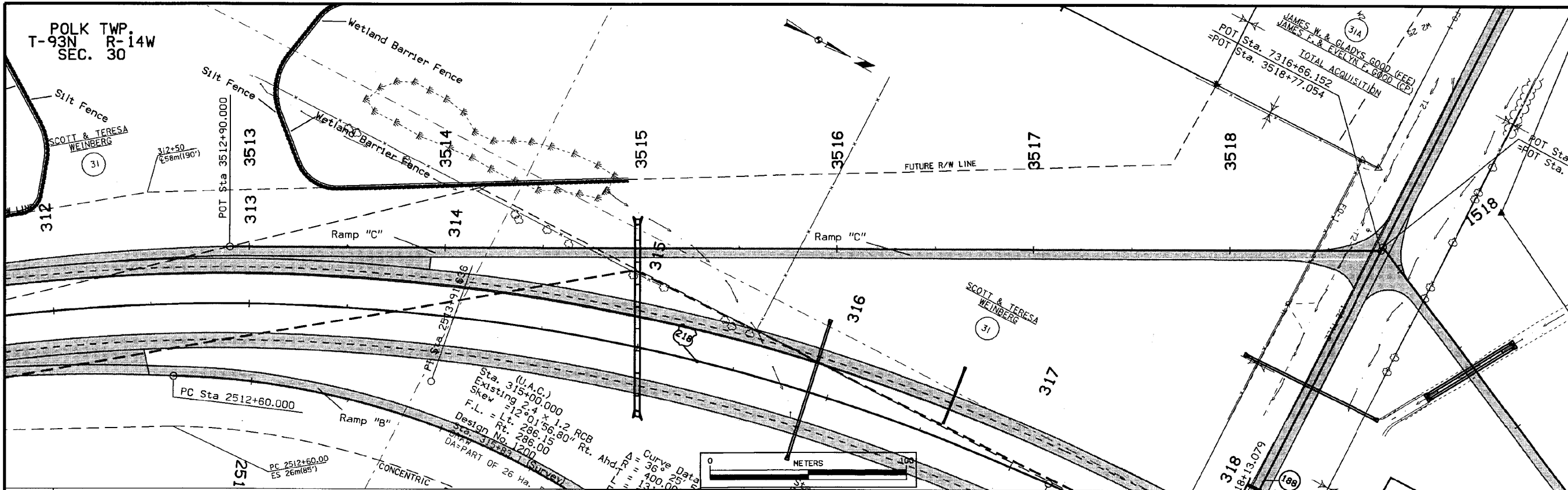


POINT NO.	STATION	OFFSET
1	477+04.764	US 218 43.855 RT
2	477+42.033	US 218 38.218 RT
3	477+88.518	US 218 33.782 RT
4	478+04.382	US 218 13.580 RT
4	5478+19.930	260 TH 4.300 RT
5	478+02.278	US 218 1.461 LT
5	5478+04.744	260 TH 4.300 RT
6	477+86.418	US 218 15.400 LT
7	478+20.437	US 218 15.400 LT
8	478+10.596	US 218 3.902 LT
8	5478+03.502	US 218 4.300 LT
9	478+13.805	US 218 17.616 RT
9	5478+25.256	US 218 4.300 LT
10	478+23.986	US 218 28.298 RT
11	478+46.516	US 218 28.848 RT

Notes:
 (1) For edge profile information See Sheet L.04
 Geometric & Staking
 Layout of the Crossover
 of U.S. 218 and 260 TH. Street



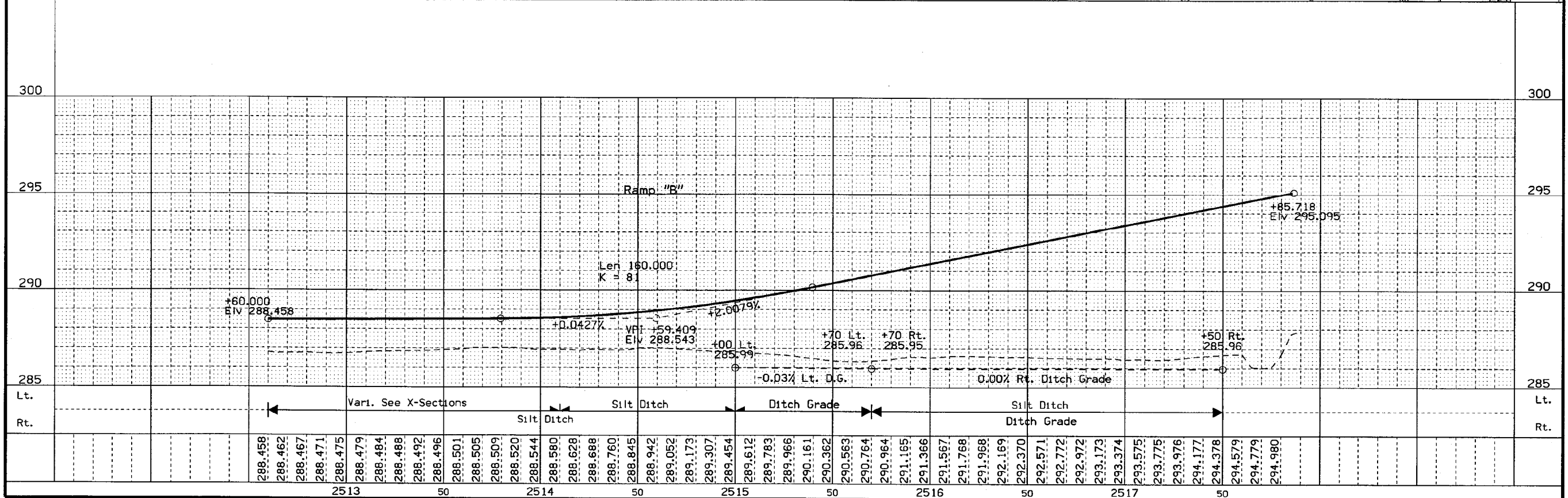
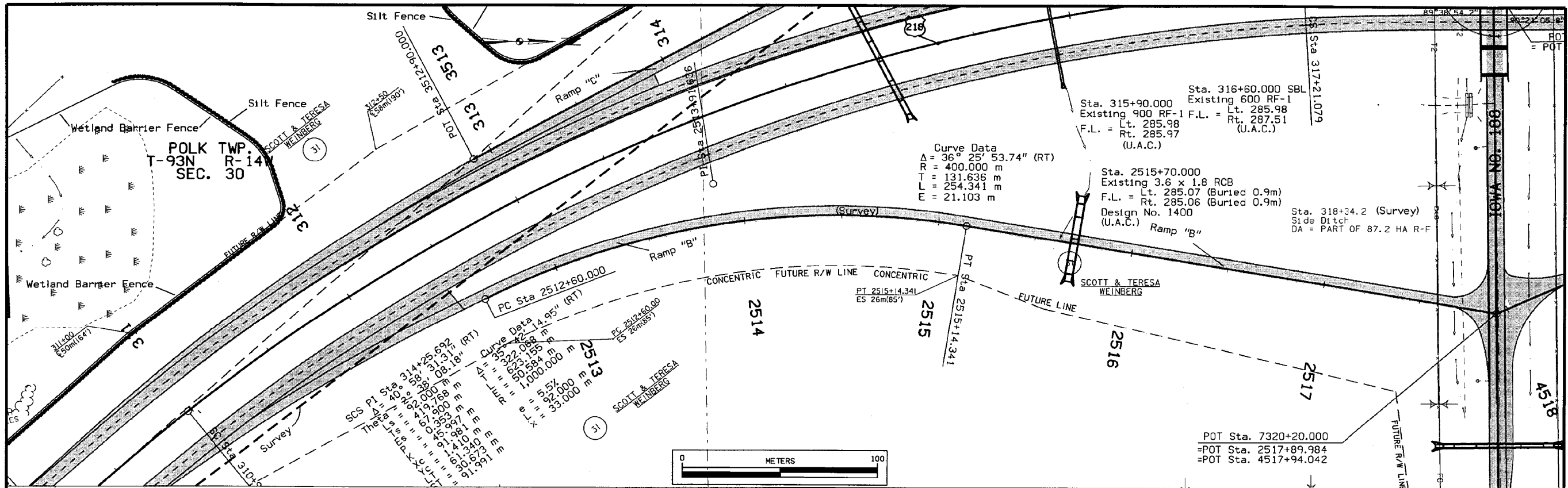
+06.8 Prop. Type "C"
 Entrance Use as
 Safety Dike



313	50	314	50	315	50	316	50	317	50	318	50
-----	----	-----	----	-----	----	-----	----	-----	----	-----	----

DESIGN TEAM **NICHOLSON/JENSEN** METRIC IOWA DOT * OFFICE OF DESIGN **BREMER** COUNTY PROJECT NUMBER **NHSX-218-8(66)--3H-09** SHEET NUMBER **K.03**
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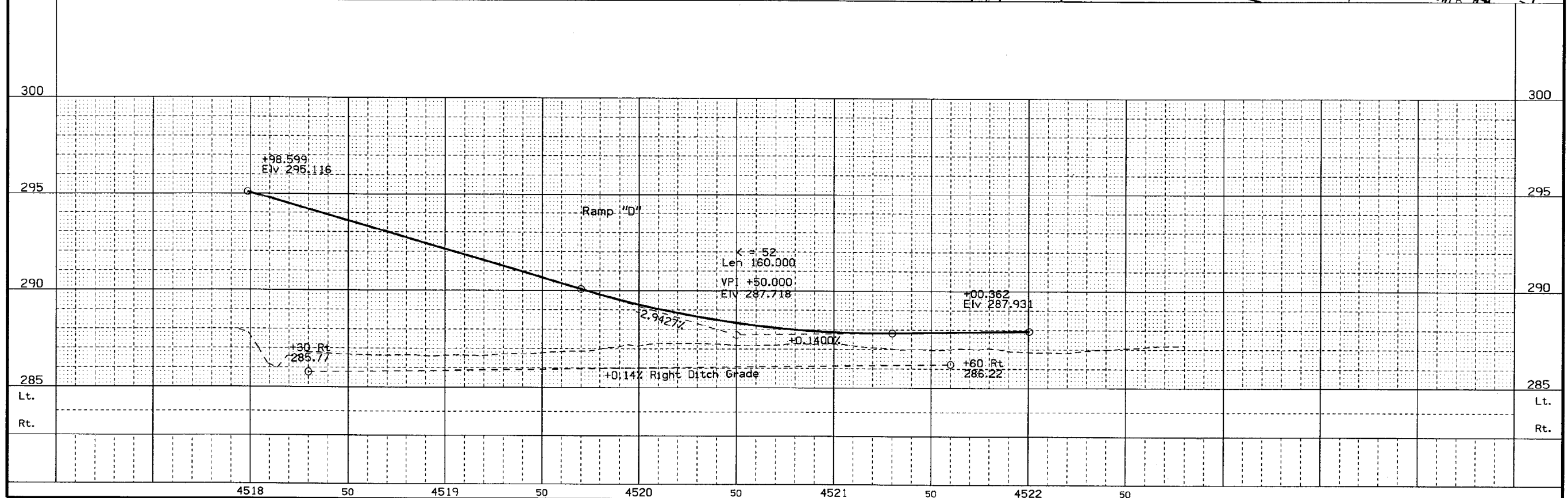
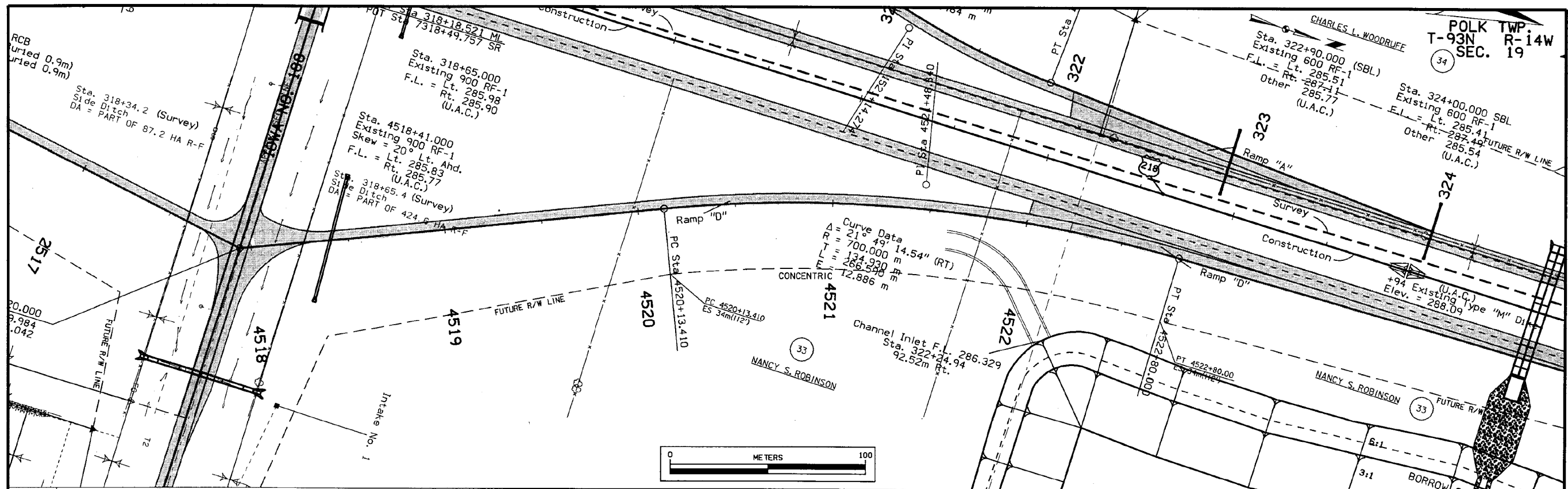
AS-BUILT PLANS, FOR INFORMATION ONLY



DESIGN TEAM	NICHOLSON/JENSEN	METRIC	IOWA DOT * OFFICE OF DESIGN	BREMER COUNTY	PROJECT NUMBER	NHSX-218-8(66)--3H-09	SHEET NUMBER	K.02
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AS-BUILT PLANS, FOR INFORMATION ONLY



DESIGN TEAM	NICHOLSON/JENSEN	METRIC	IOWA DOT * OFFICE OF DESIGN	BREMER COUNTY	PROJECT NUMBER	NHSX-218-8(66)--3H-09	SHEET NUMBER	K.04
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AS-BUILT PLANS, FOR INFORMATION ONLY

511 TRAVEL RESTRICTIONS

Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			None									

108-23A 08-01-08
TRAFFIC CONTROL PLAN
<p>1) Thru traffic shall be maintained at all times.</p> <p>2) The contractor shall coordinate traffic control with any other projects in the area.</p>

111-01 04-17-12								
COORDINATED OPERATIONS								
<p>Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.</p>								
<table border="1"> <thead> <tr> <th>Project</th> <th>Type of Work</th> </tr> </thead> <tbody> <tr> <td>To be discussed at precon.</td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>	Project	Type of Work	To be discussed at precon.					
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