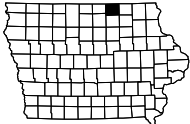


MITCHELL COUNTY

HMA Resurfacing \ Cold-in-Place Recycling
STP-009-6(086)--2C-66

LETTING DATE
DEC. 16, 2025



PLANS OF PROPOSED IMPROVEMENT ON THE
**PRIMARY ROAD SYSTEM
MITCHELL COUNTY**
HMA Resurfacing \ Cold-in-Place Recycling
From 0.2 Miles west of the east IA 9/US 218 intersection to the Wapsipinicon River in Riceville

SEE SHEET A.2 FOR LOCATION MAP

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



MILEAGE SUMMARY			
			105-1
			09-27-94
Div.	Location	LF	Miles
	M.P. 203.18 to M.P. 216.77 STA. 563+43.44 to STA. 1280+00.0	71988.760	13.63
	EQUATIONS:		
	STA. 795+50 (BK) = STA. 795+63.44 (AH)	-13.44	
	STA. 1049+50 (BK) = STA. 1049+42.56 (AH)	+7.44	
	STA. 1192+50 (BK) = STA. 1192+33.58 (AH)	+16.42	
	STA. 1232+00 (BK) = STA. 1232+26.15 (AH)	-26.15	
	Note: Equations not included in quantity calculations.		
	Total Length	71,973.03	13.63

INDEX OF SHEETS

A.1-A.2	Title Sheet and Location Map
B.1-5	Typical Cross Sections and Details
C.1-2	Estimate of Quantities and General Notes
C.4	Index of Tabulations
C.5-24	Tabulations
D.1-D.25	As-Built Information Sheets
J.1-J.3	Traffic Control Sheets
L.1	Offset Right Turn Lane Staking Details
W.1	Cross Sections
* U.1- U.4	500 Series and Detail Sheets

* Denotes Color Sheets

DESIGN DATA RURAL

20 21	AADT	1567	V.P.D.
20 26	AADT	1599	V.P.D.
20 46	DHV	1729	V.P.H.
TRUCKS		23%	%
Total			
Design ESALs		954,408	

INDEX OF SEALS

Dusten D. Rolando

PRELIMINARY PLANS

Subject to change by final design.

DM5 PLAN-Date: 9/2/25

FILE NO.

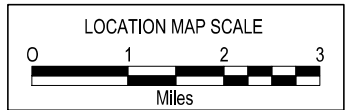
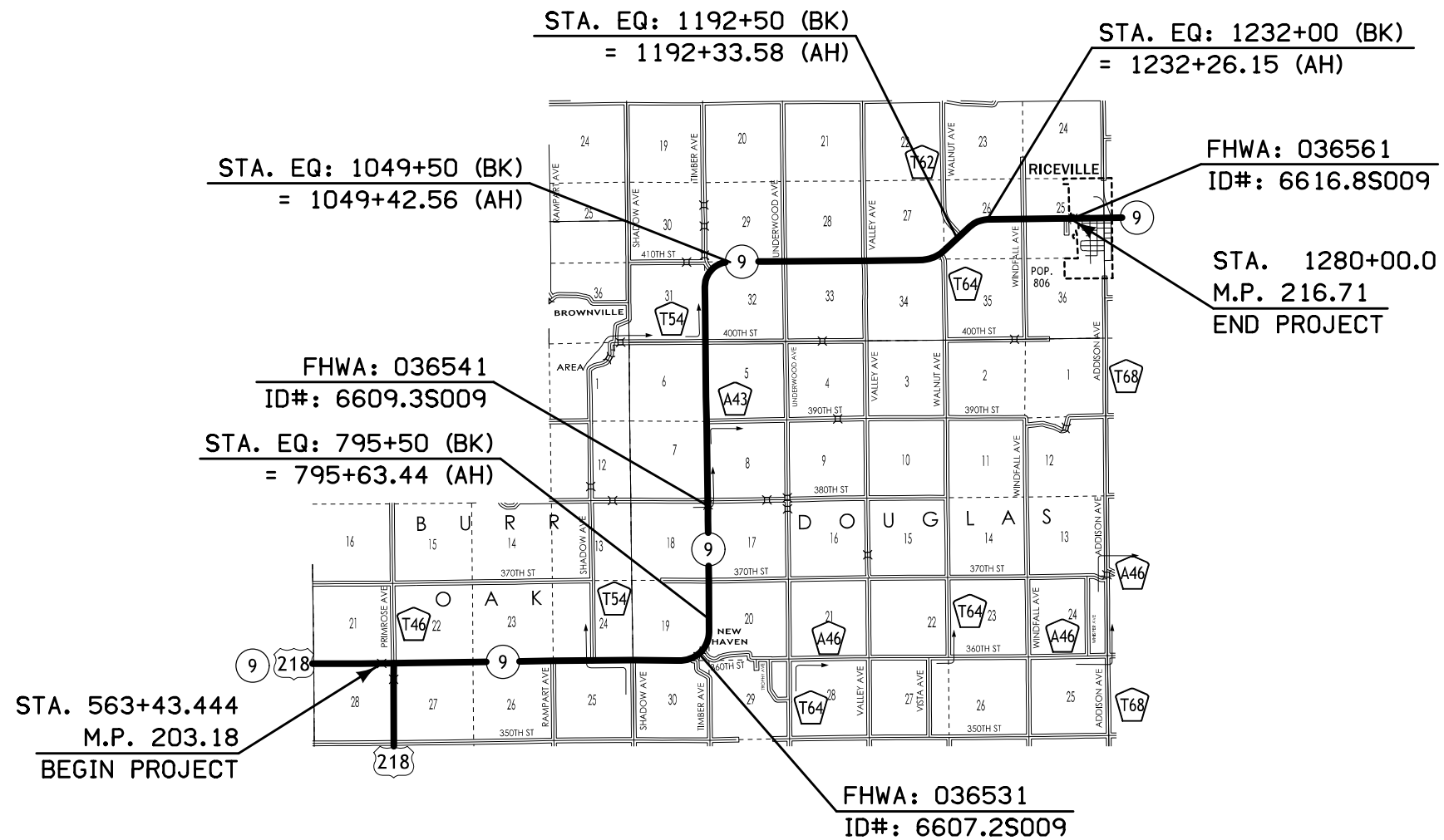
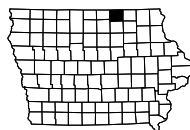
ENGLISH

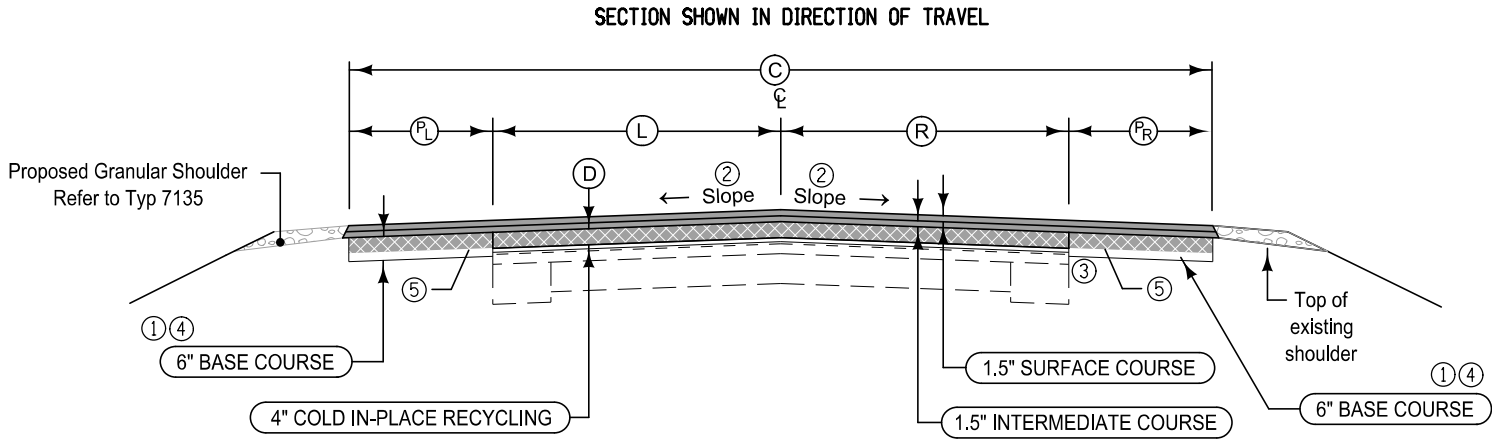
DESIGN TEAM ROLANDO \ NIE

MITCHELL COUNTY

PROJECT NUMBER STP-009-6(086)--2C-66

SHEET NUMBER A.1



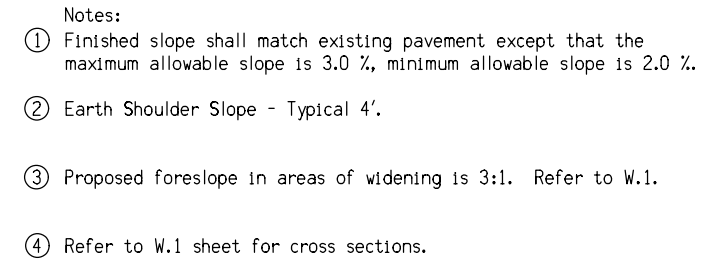
 Cold In-Place Recycling Width = C[illegible]

- Notes:
- ① HMA base widening shall be performed following milling and prior to Cold In-Place Recycling operations, where applicable. The top 4" of the newly placed base widening shall be included in the cold in-place recycling operation.
 - ② Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section shown may be modified appropriately in areas of superelevated curves or in areas of special shaping.
 - ③ Provide a vertical edge similar to what can be achieved with a milling machine. Incidental to Class 13 Excavation.
 - ④ Suspend base widening at paved side roads and at turning lanes. Refer to Typical 7154 for additional information.

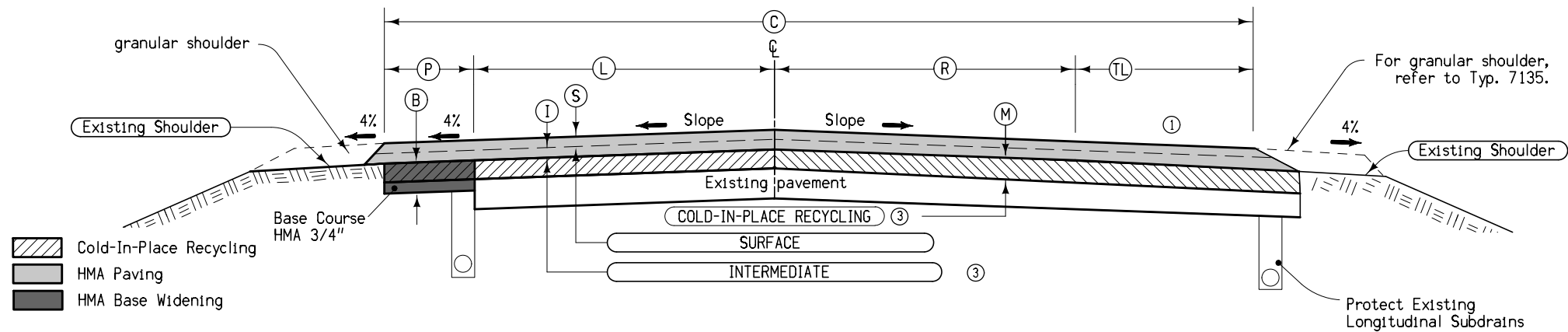
Note: Refer to A.1 for station equations.

Note: Refer to 100-25 & 112-9 for more information.

TYPICAL CROSS SECTION COLD IN-PLACE RECYCLING & HMA RESURFACING



**TYPICAL CROSS SECTION
PROPOSED RIGHT TURN LANE w/
HMA RESURFACING & PAVED SHOULDER**



Notes:

① Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the Engineer through areas of special shaping.

See Typ. DR-1 for mainline information.

Discontinue Base Widening at turn lanes.

Location		⑤	①	③	④	⑤	⑥	⑦	⑧	⑨	Remarks
Station To Station		Inches	Inches	Feet	Feet	Feet	Feet	Inches	Feet	Inches	
1205+94.0	1207+44.0	1.5	1.5	52	12	12	6	4	12	6	
1248+40.0	1243+30.0	1.5	1.5	52-40	12	12	6	4	0-12	6	WB Right turn lane taper, Walnut Ave. Taper, no CIPR

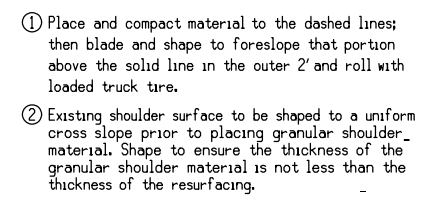
TYPICAL CROSS SECTION
EXISTING TURN LANE
COLD-IN-PLACE RECYCLING WITH HMA RESURFACING



PAVED SHOULDER DETAIL AT TURN LANES

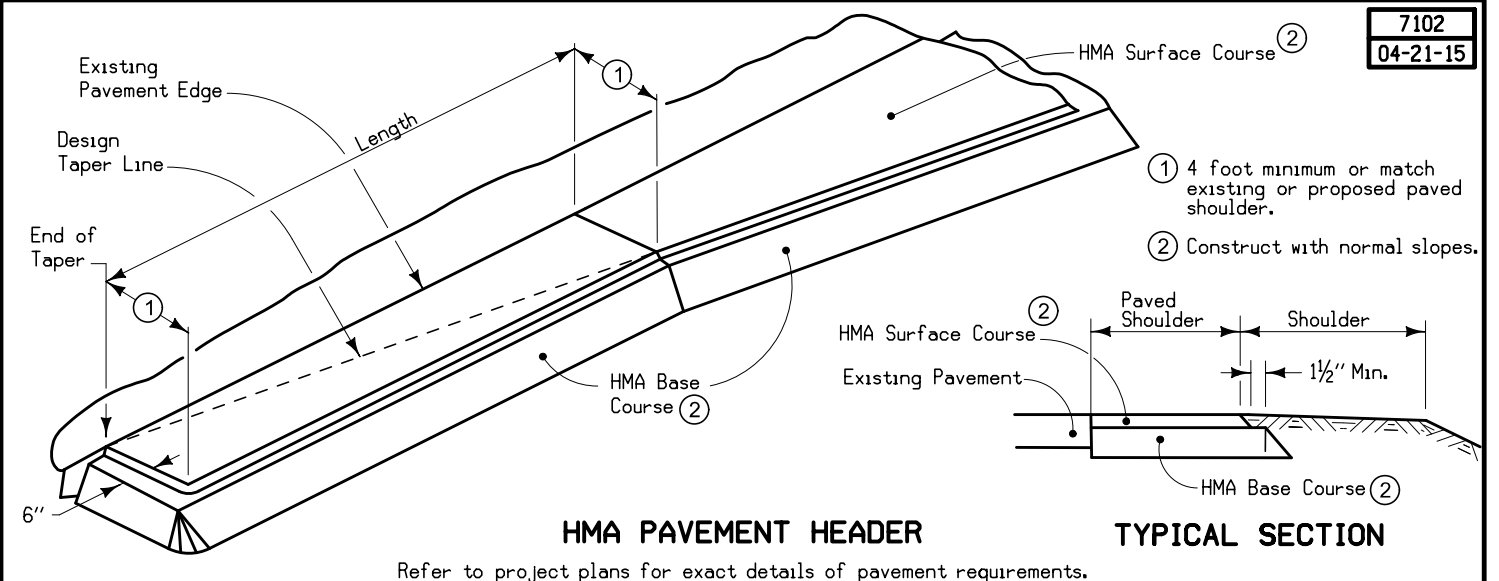


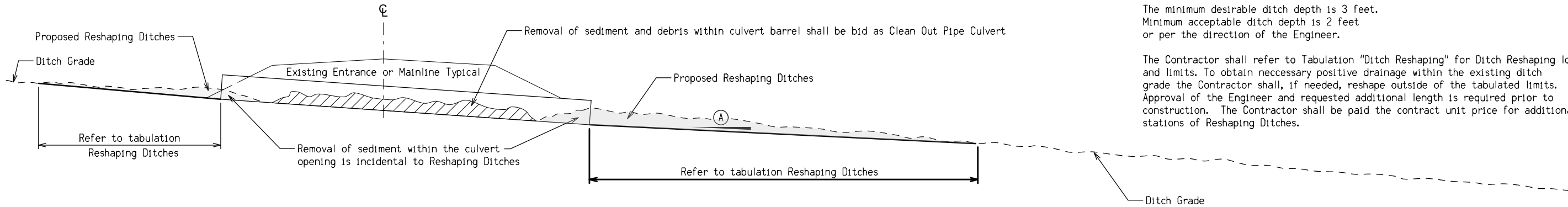
PAVED SHOULDER DETAIL AT RETURNS



TYPICAL SECTION
FOR TYPE 'B'
GRANULAR SHOULDER

ADJACENT TO HOT MIX ASPHALT
RESURFACING

[illegible]



(A) Contractor to reshape ditch from culvert outlet as follows:

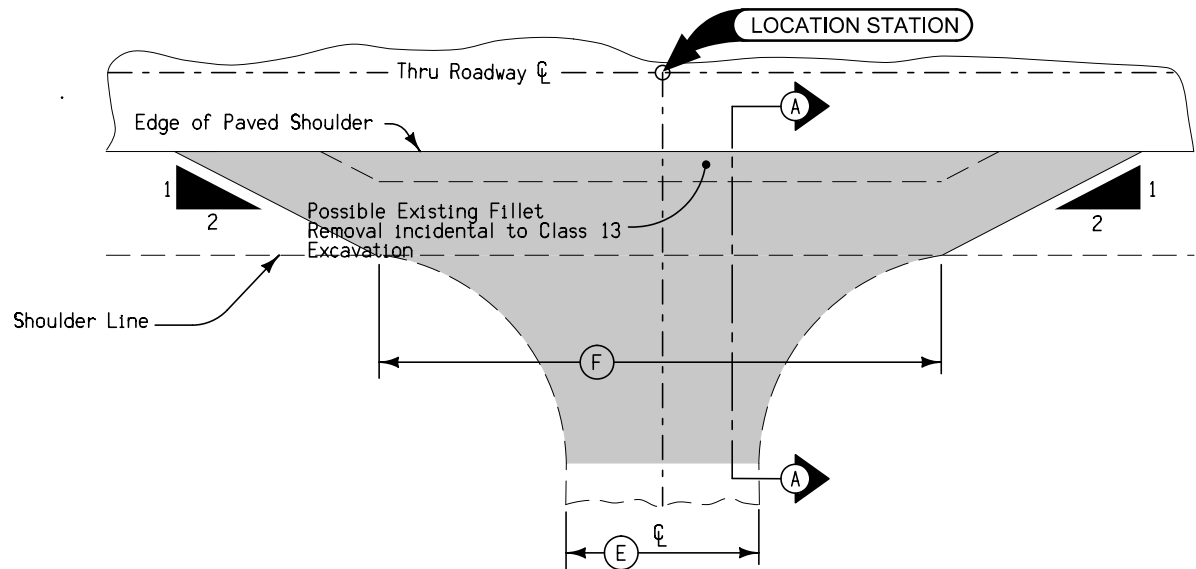
DR-3

Minimum acceptable ditch grades range from 0.2% to 1.0%.
Desirable ditch grades range from 1.0% to 3.0%.

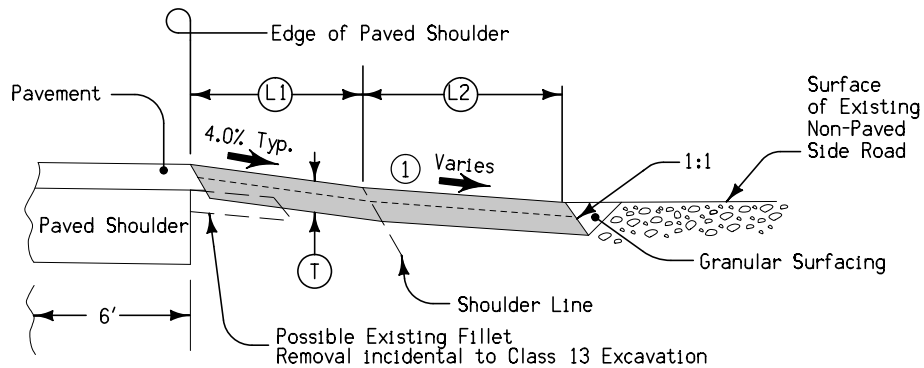
The minimum desirable ditch depth is 3 feet.
Minimum acceptable ditch depth is 2 feet
or per the direction of the Engineer.

The Contractor shall refer to Tabulation "Ditch Reshaping" for Ditch Reshaping locations and limits. To obtain necessary positive drainage within the existing ditch grade the Contractor shall, if needed, reshape outside of the tabulated limits. Approval of the Engineer and requested additional length is required prior to construction. The Contractor shall be paid the contract unit price for additional stations of Reshaping Ditches.

RESHAPING DITCHES TYPICAL



PLAN



SECTION A-A

Special shaping of existing surface prior to placement of fillet or fillet extension may be required by the Engineer and is incidental to other work on the project.

(1) Match existing slope.

7149
Modified

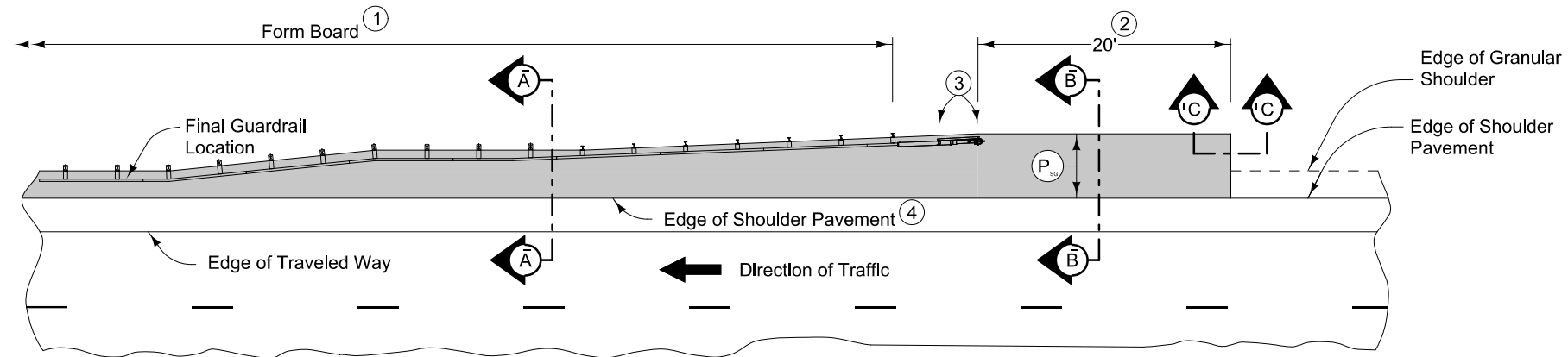
100% STATE

Station Location	(F) Feet	(T) Inches	(L ₁) Feet	Remarks
679+11.4	159	6	4	Rampart Ave.
705+56.3	164	6	4	Shadow Ave. Lt.
705+56.3	64	6	4	Shadow Ave. Rt.
731+93.2	135	6	4	Timber Ave.
701+92.89	152	6	4	370th St. Lt.
827+04.2	148	6	4	370th St. Rt.
827+04.2	97	6	4	380th St. Lt.
880+68.98	132	6	4	380th St. Rt.
880+68.98	120	6	4	390th St. Lt.
932+46.1	76	6	4	390th St. Rt.
985+18.5	101	6	4	400th St. Lt.
985+18.5	108	6	4	400th St. Rt.
1033+75.2	151	6	4	Timber Ave.
1083+62.1	129	6	4	Underwood Ave. Lt.
1083+62.1	142	6	4	Underwood Ave. Rt.
1187+46.85	106	6	4	Valley Ave. Lt.
1187+46.85	142	6	4	Valley Ave. Rt.
1251+15.43	126	6	4	Windfall Ave. Lt.
1251+15.43	61	6	4	Windfall Ave. Rt.
1279+39.9	61	6	4	Hillcrest Dr.
1280+06.5	61	6	4	Winter Ave.

100% COUNTY

Station Location	(E) Feet	(T) Inches	(L ₂) Feet	Remarks
679+11.4	31	6	40	Rampart Ave.
705+56.3	28	6	40	Shadow Ave. Lt.
705+56.3	25	6	40	Shadow Ave. Rt.
731+93.2	27	6	40	Timber Ave.
701+92.89	41	6	40	370th St. Lt.
827+04.2	28	6	40	370th St. Rt.
827+04.2	27	6	40	380th St. Lt.
880+68.98	28	6	40	380th St. Rt.
880+68.98	28	6	40	390th St. Lt.
932+46.1	22	6	40	390th St. Rt.
985+18.5	25	6	40	400th St. Lt.
985+18.5	24	6	40	400th St. Rt.
1033+75.2	44	6	40	Timber Ave.
1083+62.1	32	6	40	Underwood Ave. Lt.
1083+62.1	29	6	40	Underwood Ave. Rt.
1187+46.85	32	6	40	Valley Ave. Lt.
1187+46.85	30	6	40	Valley Ave. Rt.
1251+15.43	22	6	40	Windfall Ave. Lt.
1251+15.43	22	6	40	Windfall Ave. Rt.

FILLET EXTENSION FOR
NON-PAVED SIDE ROADS



PLAN VIEW

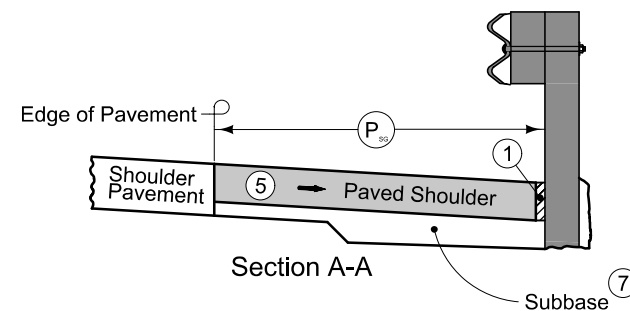
9" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at $P/2$ from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

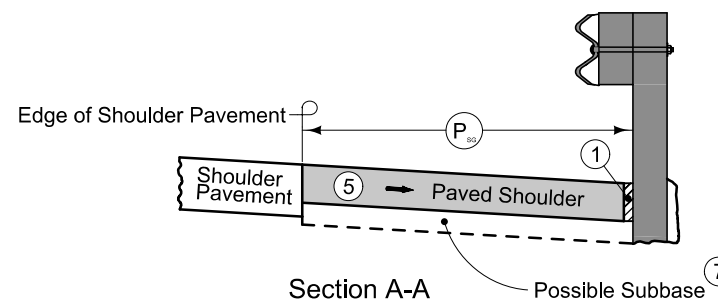
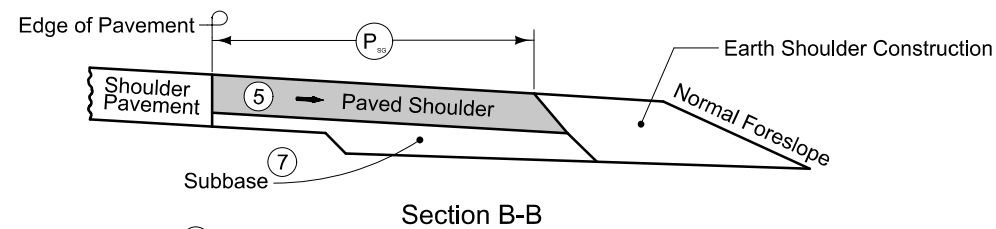
Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal and reinstallation of guardrail will be allowed with no additional payment.

Refer to Tabulation 112-9 for shoulder quantities.

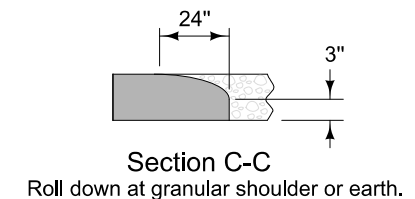
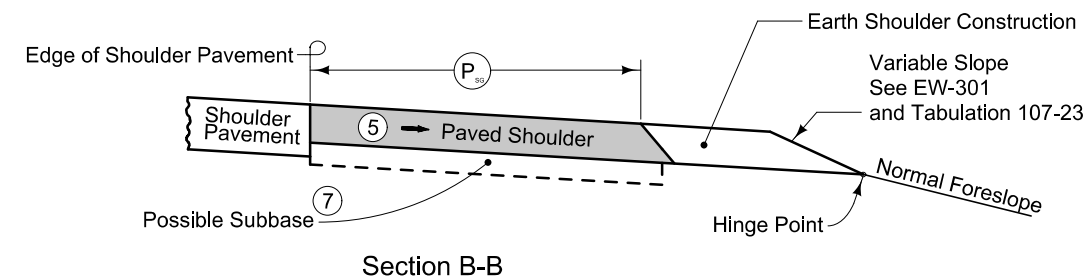
- ① PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown.
- ② Continue paved shoulder 20 feet beyond the center of the first post.
- ③ Shoulder may be notched for first 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.
- ④ 'KT' (per PV-101) joint for PCC shoulder.
'B' (per PV-101) joint for HMA shoulder.
- ⑤ Match shoulder slope.
- ⑥ The Contractor has the option to pave the paved shoulder at guardrail and the partial width paved shoulder as one operation.
- ⑦ Refer to other details in the plan.



NEW CONSTRUCTION



EXISTING SHOULDER



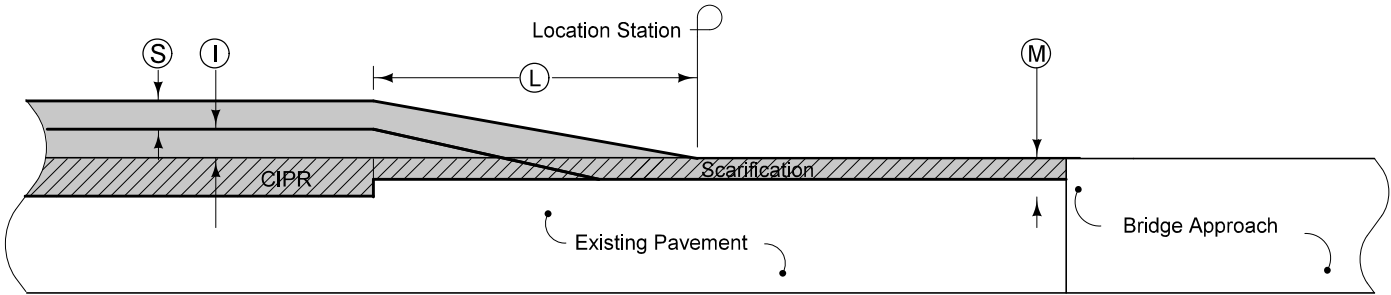
PAVED SHOULDER AT GUARDRAIL
(ADJACENT TO PARTIAL WIDTH PAVED SHOULDER)

Posted Speed Limit (mph)	Runout Ratio (ft per inch)
Over 40	50
20 to 40	25
Under 20	10*

Location Station	(M) Inches	(I) Inches	(S) Inches	(L) Feet
774+31.0	2	1.5	1.5	150
779+94.0	2	1.5	1.5	150

DR-5

Note: Existing profile elevation shall be maintained at existing guardrail locations.



- (S) Surface Course
- (I) Intermediate Course
- (L) Runout Length
- (M) Scarification

Possible Contract Item:
Pavement Scarification

Possible Tabulations:
100-25
102-16

SURFACE NOTCH - INTERMEDIATE RUNOUT
FOR RESURFACING OF MILLED AREAS

INTERMEDIATE COURSE RUNOUT
DETAIL AT BRIDGE

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1 : 100% State

Division 2 : 100% County

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
1	2102-2625000	EMBANKMENT-IN-PLACE	CY	517.9		517.9	Refer to Tab. 104-13 and Tab. 107-23.
2	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	16,277.9		16,277.9	Refer to Tab 112-9, Typ. DR-1, and Typ. DR-2. Removal of existing entrance, sideroad fillets, and existing shoulder widening (spot locations) shall be incidental to this item. Removal of Curb shall be incidental to this item. See Tab. 110-04. Class 13 excavation material shall become property of the contractor.
3	2115-0100000	MODIFIED SUBBASE	CY	657		657	Refer to Typ. DR-3 and 110-25.
4	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	14,990.98		14,990.98	Refer to Typical 7110 and Tabulation 112-9.
5	2122-5500090	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 9 IN.	SY	216.4		216.4	
6	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	1,472.1		1,472.1	Refer to 112-9.
7	2125-2225050	RESHAPING DITCHES	STA	3.6		3.6	Refer to Tab. 302_99.
8	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	989.5		989.5	Refer to Tab. 102-6C.
9	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	71		71	
10	2213-8200000	BASE WIDENING, HOT MIX ASPHALT MIXTURE	TON	29,568		29,568	Refer to Tab. 112-09.
11	2214-5145150	PAVEMENT SCARIFICATION	SY	2,566.9		2,566.9	Refer to Tab. 102-16 and Tab. 100-25.
12	2303-1032500	HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX	TON	25,151.1	1,026.9	26,178	Refer to Tab. 100-25.
13	2303-1033504	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-4	TON	25,161.1	513.5	25,674.6	
14	2303-1258343	ASPHALT BINDER, PG 58-34S, STANDARD TRAFFIC	TON	3,111.4	92.4	3,203.8	
15	2303-7000610	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE LABORATORY VOIDS (FORMULA - BY PAY FACTOR)	EACH	50,312.2		50,312.2	
16	2303-7000620	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE FIELD VOIDS (FORMULA - BY PAY FACTOR)	EACH	50,312.2		50,312.2	
17	2317-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	46,062		46,062	
18	2318-1001100	COLD IN-PLACE RECYCLED ASPHALT PAVEMENT	SY	299,698.1		299,698.1	

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
19	2318-1001220	ASPHALT STABILIZING AGENT (FOAMED ASPHALT)	TON	13,244.1		13,244.1	
20	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	1		1	Refer to Tab. 104-3.
21	2416-0100030	APRONS, CONCRETE, 30 IN. DIA.	EACH	4		4	See Tab. 140-13.
22	2416-0100036	APRONS, CONCRETE, 36 IN. DIA.	EACH	2		2	Refer to Tab. 104-13.
23	2416-0101036	REMOVE AND REINSTALL CONCRETE PIPE APRONS LESS THAN OR EQUAL TO 36 IN.	EACH	7		7	
24	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	LF	80		80	
25	2416-1541036	REMOVE AND REINSTALL RIGID PIPE CULVERT LESS THAN OR EQUAL TO 36 IN.	LF	60		60	Refer to Tab. 104-13.
26	2417-0225018	APRONS, METAL, 18 IN. DIA.	EACH	26		26	
27	2417-0225024	APRONS, METAL, 24 IN. DIA.	EACH	98		98	
28	2417-1040024	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 24 IN. DIA.	LF	80		80	Refer to Tab. 104-3.
29	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	232		232	Refer to Tab. 110-07A.
30	2505-4008300	STEEL BEAM GUARDRAIL	LF	125		125	Refer to Tab. 108-08A.
31	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH	2		2	
32	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH	2		2	
33	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH	2		2	
34	2520-3350010	FIELD LABORATORY	EACH	1		1	

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
35	2524-6765010	REMOVE AND REINSTALL SIGN AS PER PLAN	EACH	1		1	Refer to Tabulations 190_61. Install stop sign a minimum lateral offset of 2 feet from channelizing line parallel the approach roadway and a minimum offset of 2 feet from stop bar parallel IA 3. The Contractor shall remove each sign and the hardware used to secure the sign to another sign, posts, or sign support structure. For signs mounted directly to posts, removal of the sign shall include removal of the posts. Posts shall be steel breakaway sign posts. Maintenance shop will furnish new breakaway bases and posts. The existing sign shall be removed and stored. The Contractor shall remove the sign and shall be reinstalled by the end of the same working day. A temporary sign shall be in place until permanent sign is reinstalled. The Contractor shall furnish all necessary hardware to install the signs. When the new installation is similar to the original installation, unless otherwise noted, the existing hardware may be used to reinstall the sign. Signs damaged by the Contractor's activities shall be replaced at the Contractor's expense. Replacement materials shall be new. The DOT will furnish all details necessary for fabrication of the replacement materials. METHOD OF MEASUREMENT: The Engineer will count each sign removed and reinstalled. BASIS OF PAYMENT: For each sign removed and reinstalled, the Contractor shall be paid the contract unit price. Includes all costs for the sign removal, delivery to nearest DOT Maintenance Shop. All other signs required to be reinstalled for offset right turn lane at the IA 9/US 218 intersection to be reinstalled by Iowa Department of Transportation.
36	2526-8285000	CONSTRUCTION SURVEY	LS	1		1	DOT will be responsible for preservation of section corners including Public Land Survey Corner Certificates and shall not be included in this bid item. All other construction survey requirements shall apply.
37	2527-9263155	PRE-CUT SYMBOLS AND LEGENDS, PREFORMED THERMOPLASTIC MARKING MATERIAL	EACH	2		2	Refer to Tab. 108-29.
38	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	1,827.83		1,827.83	Refer to Tab. 108_29.
39	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	9,074.72		9,074.72	
40	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	2		2	
41	2528-8445110	TRAFFIC CONTROL	LS	1		1	Refer to Traffic Control Plan on J sheets
42	2528-8445113	FLAGGERS	EACH	0		0	See Proposal.
43	2528-8445115	PILOT CARS	EACH	0		0	
44	2533-4980005	MOBILIZATION	LS	1		1	- -

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
45	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	2,153.88		2,153.88	Refer to Tab. 112-10.
46	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	1,555.6		1,555.6	Refer to Tab. 112-10 and Modified Detail on U sheets.
47	2548-0000310	MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE	STA	713.86		713.86	Refer to Tab. 112-10.
48	2551-0000210	PERMANENT CRASH CUSHION	EACH	2		2	Item is for protecting the end bridge end post and railings on the north end of the bridge at station 879+12.5. Contractor to install per the manufacturers instructions. Item includes all labor, hardware, and materials needed to satisfactorily install.
49	2599-9999005	('EACH' ITEM) FURNISH AND INSTALL SOLAR POWERED STOP SIGN BEACON	EACH	1		1	This item is for furnishing and installing a solar powered stop sign beacon at the intersection of IA 9 and US 218. The solar powered stop sign beacon shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). the existing wired stop sign beacon shall be removed and properly disposed of, these costs shall be included in this bid item. Existing electrical circuits shall be removed/capped per the appropriate electrical codes, incidental. Measurement for Furnish and Install Solar Powered Stop Sign Beacon will be by count. Payment for Furnish and Install Solar Powered Stop Sign Beacon will be at the contract unit price per each.
50	2602-0000020	SILT FENCE	LF	1,000		1,000	Refer to Tab. 100-17. The tabulation includes estimated locations for placement of "Silt Fence" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.
51	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	455		455	Refer to Tab 100-18. The tabulation includes estimated locations for placement of "Silt Fence for Ditch Checks" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement.
52	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	1,300.5		1,300.5	This item is included for silt fence and silt fence for ditch check removal. Remove silt fence and posts after mulching or vegetation is established and approved by the engineer.
53	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	500		500	Refer to 100-17. This item is included for clean-out and repair of the silt fence and silt fence for ditch checks during the project.
54	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	8,760		8,760	Refer to Tab. 100-19. The tabulation includes estimated locations for placement of "Perimeter and Slope Sediment Control Device, 12 in. dia." to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
55	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	8,760		8,760	Refer to Tab. 100_19.

232_03A
9/28/22

EROSION CONTROL (RURAL SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area lying 8 feet adjacent to shoulder and median as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

232_11
6/21/23

EROSION CONTROL (STABILIZING CROP SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

If outside of permanent seeding dates in Section 2601 of the Standard Specifications, or if required by a storm water permit, place stabilizing crop, fertilizer, and mulch on the disturbed area as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,1 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are incidental to mobilization and will will not be paid for separately.

262_09
9/28/22

UTILITIES (POINT 25 PROJECT)

This is a POINT 25 project and is subject to the provisions of IAC 761-115.25.

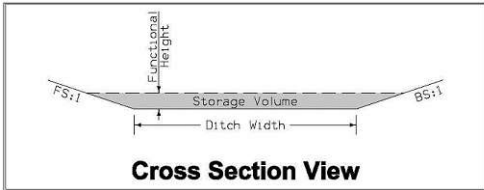
100_01D
8/15/22

PROJECT DESCRIPTION

This project involves Cold In-Place recycling and HMA resurfacing of IA 9. 6-foot paved shoulders, granular surfacing, pavement markings, and the construction of an offset right turn lane at E JCT US 218 are also included with this project.

100_17 8/15/22 TABULATION OF SILT FENCES Refer to EC-201				
Station From	Station To	Side	Length (FT)	Remarks
876+00.00	878+00.00	Left	400.00	two rows
876+00.00	878+00.00	Right	400.00	two rows
Total:			800	

Possible Standard: EC-201



* Volume equation: $[0.5 \cdot \text{Spacing} \cdot (0.5 \cdot H^2 \cdot FS + DW \cdot H + 0.5 \cdot H^2 \cdot BS)]$

Type	Station	Side	Installation (LF)	Maintenance (LF)	Removal (LF)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avg. % Slope Ditch Grade	Remarks
Type 1	563+75.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	564+50.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	565+25.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	566+00.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	566+75.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	567+50.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	568+25.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	569+00.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	569+75.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	570+50.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	571+25.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	572+00.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Type 1	572+75.00	Right	35.0	38.5	38.5	3.0	1.0	20.0	1.8	
Total:			455	500.5	500.5					

100_19
10/15/24

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Station From	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
578+67.00	Left	Perimeter and Slope	12 inch	120.00	See 570-12.
578+67.00	Right	Perimeter and Slope	12 inch	120.00	See 570-12.
582+15.00		Perimeter and Slope	12 inch	40.00	
582+85.00		Perimeter and Slope	12 inch	40.00	
582+95.00		Perimeter and Slope	12 inch	40.00	
586+18.00		Perimeter and Slope	12 inch	40.00	
586+28.00		Perimeter and Slope	12 inch	40.00	
586+98.00		Perimeter and Slope	12 inch	40.00	
589+00.00		Perimeter and Slope	12 inch	40.00	
589+70.00		Perimeter and Slope	12 inch	40.00	
589+80.00		Perimeter and Slope	12 inch	40.00	
610+05.00		Perimeter and Slope	12 inch	40.00	
610+15.00		Perimeter and Slope	12 inch	40.00	
610+85.00		Perimeter and Slope	12 inch	40.00	
611+56.00		Perimeter and Slope	12 inch	40.00	
611+66.00		Perimeter and Slope	12 inch	40.00	
612+36.00		Perimeter and Slope	12 inch	40.00	
612+37.00		Perimeter and Slope	12 inch	40.00	
612+47.00		Perimeter and Slope	12 inch	40.00	
613+17.00		Perimeter and Slope	12 inch	40.00	
615+22.00		Perimeter and Slope	12 inch	40.00	
615+32.00		Perimeter and Slope	12 inch	40.00	
616+02.00		Perimeter and Slope	12 inch	40.00	
618+06.00	Left	Perimeter and Slope	12 inch	40.00	
618+16.00	Left	Perimeter and Slope	12 inch	40.00	
618+86.00	Left	Perimeter and Slope	12 inch	40.00	
618+06.00	Right	Perimeter and Slope	12 inch	40.00	
618+16.00	Right	Perimeter and Slope	12 inch	40.00	
618+86.00	Right	Perimeter and Slope	12 inch	40.00	
632+80.00		Perimeter and Slope	12 inch	40.00	
632+90.00		Perimeter and Slope	12 inch	40.00	
633+60.00		Perimeter and Slope	12 inch	40.00	
648+94.00		Perimeter and Slope	12 inch	40.00	
649+04.00		Perimeter and Slope	12 inch	40.00	
649+74.00		Perimeter and Slope	12 inch	40.00	
675+60.00	Left	Perimeter and Slope	12 inch	120.00	See 570-12.
675+60.00	Right	Perimeter and Slope	12 inch	120.00	See 570-12.
675+65.00		Perimeter and Slope	12 inch	40.00	
676+35.00		Perimeter and Slope	12 inch	40.00	
676+45.00		Perimeter and Slope	12 inch	40.00	
679+02.00		Perimeter and Slope	12 inch	40.00	
679+72.00		Perimeter and Slope	12 inch	40.00	
679+82.00		Perimeter and Slope	12 inch	40.00	
702+22.00		Perimeter and Slope	12 inch	40.00	
702+92.00		Perimeter and Slope	12 inch	40.00	
703+02.00		Perimeter and Slope	12 inch	40.00	
705+17.00		Perimeter and Slope	12 inch	40.00	
705+87.00		Perimeter and Slope	12 inch	40.00	
705+97.00		Perimeter and Slope	12 inch	40.00	
705+21.00		Perimeter and Slope	12 inch	40.00	
705+91.00		Perimeter and Slope	12 inch	40.00	
706+01.00		Perimeter and Slope	12 inch	40.00	
720+65.00		Perimeter and Slope	12 inch	40.00	
720+75.00		Perimeter and Slope	12 inch	40.00	
721+45.00		Perimeter and Slope	12 inch	40.00	

100_19
10/15/24

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Station From	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
721+20.00		Perimeter and Slope	12 inch	40.00	
721+90.00		Perimeter and Slope	12 inch	40.00	
722+00.00		Perimeter and Slope	12 inch	40.00	
721+20.00		Perimeter and Slope	12 inch	40.00	
721+90.00		Perimeter and Slope	12 inch	40.00	
722+00.00		Perimeter and Slope	12 inch	40.00	
747+11.00	Left	Perimeter and Slope	12 inch	120.00	See 570-12.
747+11.00	Right	Perimeter and Slope	12 inch	120.00	See 570-12.
754+08.00		Perimeter and Slope	12 inch	40.00	
754+78.00		Perimeter and Slope	12 inch	40.00	
754+88.00		Perimeter and Slope	12 inch	40.00	
755+15.00		Perimeter and Slope	12 inch	40.00	
755+85.00		Perimeter and Slope	12 inch	40.00	
755+95.00		Perimeter and Slope	12 inch	40.00	
755+42.00		Perimeter and Slope	12 inch	40.00	
756+12.00		Perimeter and Slope	12 inch	40.00	
756+22.00		Perimeter and Slope	12 inch	40.00	
759+87.00		Perimeter and Slope	12 inch	40.00	
760+57.00		Perimeter and Slope	12 inch	40.00	
760+67.00		Perimeter and Slope	12 inch	40.00	
793+53.00		Perimeter and Slope	12 inch	40.00	
794+23.00		Perimeter and Slope	12 inch	40.00	
794+33.00		Perimeter and Slope	12 inch	40.00	
800+28.00		Perimeter and Slope	12 inch	40.00	
800+38.00		Perimeter and Slope	12 inch	40.00	
801+08.00		Perimeter and Slope	12 inch	40.00	
813+36.00		Perimeter and Slope	12 inch	40.00	
813+46.00		Perimeter and Slope	12 inch	40.00	
814+16.00		Perimeter and Slope	12 inch	40.00	
810+30.00	Left	Perimeter and Slope	12 inch	40.00	
810+40.00	Left	Perimeter and Slope	12 inch	40.00	
811+10.00	Left	Perimeter and Slope	12 inch	40.00	
839+74.00	Right	Perimeter and Slope	12 inch	40.00	
839+84.00	Right	Perimeter and Slope	12 inch	40.00	
840+54.00	Right	Perimeter and Slope	12 inch	40.00	
866+20.00		Perimeter and Slope	12 inch	40.00	
866+90.00		Perimeter and Slope	12 inch	40.00	
867+00.00		Perimeter and Slope	12 inch	40.00	
924+13.00		Perimeter and Slope	12 inch	40.00	
924+23.00		Perimeter and Slope	12 inch	40.00	
924+93.00		Perimeter and Slope	12 inch	40.00	
924+28.00		Perimeter and Slope	12 inch	40.00	
924+98.00		Perimeter and Slope	12 inch	40.00	
925+08.00		Perimeter and Slope	12 inch	40.00	
914+65.00		Perimeter and Slope	12 inch	40.00	
915+35.00		Perimeter and Slope	12 inch	40.00	
915+45.00		Perimeter and Slope	12 inch	40.00	
918+80.00		Perimeter and Slope	12 inch	40.00	
919+50.00		Perimeter and Slope	12 inch	40.00	
919+60.00		Perimeter and Slope	12 inch	40.00	
945+20.00		Perimeter and Slope	12 inch	40.00	
945+90.00		Perimeter and Slope	12 inch	40.00	
946+00.00		Perimeter and Slope	12 inch	40.00	
949+90.00		Perimeter and Slope	12 inch	40.00	
950+60.00		Perimeter and Slope	12 inch	40.00	

100_19
10/15/24

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Station From	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
950+70.00		Perimeter and Slope	12 inch	40.00	
953+24.00		Perimeter and Slope	12 inch	40.00	
953+34.00		Perimeter and Slope	12 inch	40.00	
954+04.00		Perimeter and Slope	12 inch	40.00	
955+66.00	Left	Perimeter and Slope	12 inch	120.00	See 570-12.
955+66.00	Right	Perimeter and Slope	12 inch	120.00	See 570-12.
970+44.00	Left	Perimeter and Slope	12 inch	120.00	See 570-12.
970+44.00	Right	Perimeter and Slope	12 inch	120.00	See 570-12.
976+75.00	Left	Perimeter and Slope	12 inch	40.00	
977+45.00	Left	Perimeter and Slope	12 inch	40.00	
977+55.00	Left	Perimeter and Slope	12 inch	40.00	
976+75.00	Right	Perimeter and Slope	12 inch	40.00	
977+45.00	Right	Perimeter and Slope	12 inch	40.00	
977+55.00	Right	Perimeter and Slope	12 inch	40.00	
989+55.00	Left	Perimeter and Slope	12 inch	40.00	
990+25.00	Left	Perimeter and Slope	12 inch	40.00	
990+35.00	Left	Perimeter and Slope	12 inch	40.00	
989+45.00	Right	Perimeter and Slope	12 inch	40.00	
989+55.00	Right	Perimeter and Slope	12 inch	40.00	
990+25.00	Right	Perimeter and Slope	12 inch	40.00	
1007+90.00		Perimeter and Slope	12 inch	40.00	
1008+60.00		Perimeter and Slope	12 inch	40.00	
1008+70.00		Perimeter and Slope	12 inch	40.00	
1009+11.00		Perimeter and Slope	12 inch	40.00	
1009+81.00		Perimeter and Slope	12 inch	40.00	
1009+91.00		Perimeter and Slope	12 inch	40.00	
1025+80.00		Perimeter and Slope	12 inch	40.00	
1025+90.00		Perimeter and Slope	12 inch	40.00	
1026+60.00		Perimeter and Slope	12 inch	40.00	
1033+25.00		Perimeter and Slope	12 inch	40.00	
1033+35.00		Perimeter and Slope	12 inch	40.00	
1034+05.00		Perimeter and Slope	12 inch	40.00	
1039+55.00		Perimeter and Slope	12 inch	40.00	
1039+65.00		Perimeter and Slope	12 inch	40.00	
1040+35.00		Perimeter and Slope	12 inch	40.00	
1043+65.00		Perimeter and Slope	12 inch	40.00	
1044+35.00		Perimeter and Slope	12 inch	40.00	
1044+45.00		Perimeter and Slope	12 inch	40.00	
1087+37.00		Perimeter and Slope	12 inch	40.00	
1088+07.00		Perimeter and Slope	12 inch	40.00	
1088+17.00		Perimeter and Slope	12 inch	40.00	
1039+55.00		Perimeter and Slope	12 inch	40.00	
1039+65.00		Perimeter and Slope	12 inch	40.00	
1040+35.00		Perimeter and Slope	12 inch	40.00	
1102+65.00		Perimeter and Slope	12 inch	40.00	
1103+35.00		Perimeter and Slope	12 inch	40.00	
1103+45.00		Perimeter and Slope	12 inch	40.00	
1115+15.00		Perimeter and Slope	12 inch	40.00	
1115+85.00		Perimeter and Slope	12 inch	40.00	
1115+95.00		Perimeter and Slope	12 inch	40.00	
1123+35.00	Left	Perimeter and Slope	12 inch	40.00	
1123+45.00	Left	Perimeter and Slope	12 inch	40.00	
1124+15.00	Left	Perimeter and Slope	12 inch	40.00	
1123+35.00	Right	Perimeter and Slope	12 inch	40.00	
1123+45.00	Right	Perimeter and Slope	12 inch	40.00	

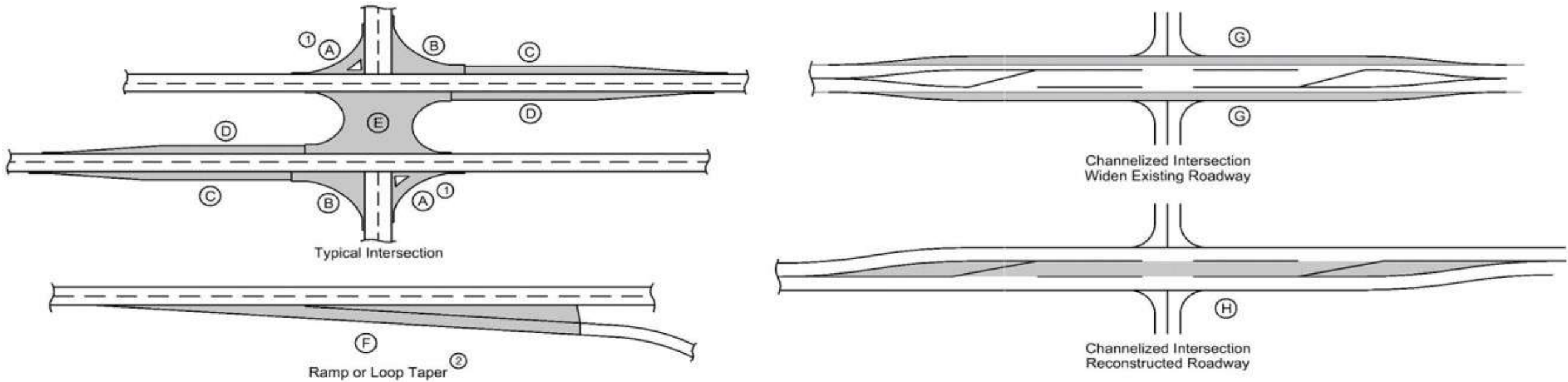
100_19
10/15/24

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Station From	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
1124+15.00	Right	Perimeter and Slope	12 inch	40.00	
1126+15.00		Perimeter and Slope	12 inch	40.00	
1126+25.00		Perimeter and Slope	12 inch	40.00	
1126+95.00		Perimeter and Slope	12 inch	40.00	
1155+19.00		Perimeter and Slope	12 inch	40.00	
1155+29.00		Perimeter and Slope	12 inch	40.00	
1155+99.00		Perimeter and Slope	12 inch	40.00	
1168+03.00	Left	Perimeter and Slope	12 inch	40.00	
1168+13.00	Left	Perimeter and Slope	12 inch	40.00	
1168+83.00	Left	Perimeter and Slope	12 inch	40.00	
1168+03.00	Right	Perimeter and Slope	12 inch	40.00	
1168+13.00	Right	Perimeter and Slope	12 inch	40.00	
1168+83.00	Right	Perimeter and Slope	12 inch	40.00	
1238+14.00	Left	Perimeter and Slope	12 inch	120.00	See 570-12.
1238+14.00	Right	Perimeter and Slope	12 inch	120.00	See 570-12.
1257+92.00		Perimeter and Slope	12 inch	40.00	
1258+62.00		Perimeter and Slope	12 inch	40.00	
1258+72.00		Perimeter and Slope	12 inch	40.00	
1264+65.00		Perimeter and Slope	12 inch	40.00	
1265+35.00		Perimeter and Slope	12 inch	40.00	
1265+45.00		Perimeter and Slope	12 inch	40.00	
1270+55.00		Perimeter and Slope	12 inch	40.00	
1271+25.00		Perimeter and Slope	12 inch	40.00	
1271+35.00		Perimeter and Slope	12 inch	40.00	
1270+82.00		Perimeter and Slope	12 inch	40.00	
1271+52.00		Perimeter and Slope	12 inch	40.00	
1271+62.00		Perimeter and Slope	12 inch	40.00	
1275+08.00		Perimeter and Slope	12 inch	40.00	
1275+78.00		Perimeter and Slope	12 inch	40.00	
1275+88.00		Perimeter and Slope	12 inch	40.00	
Total:			8760		

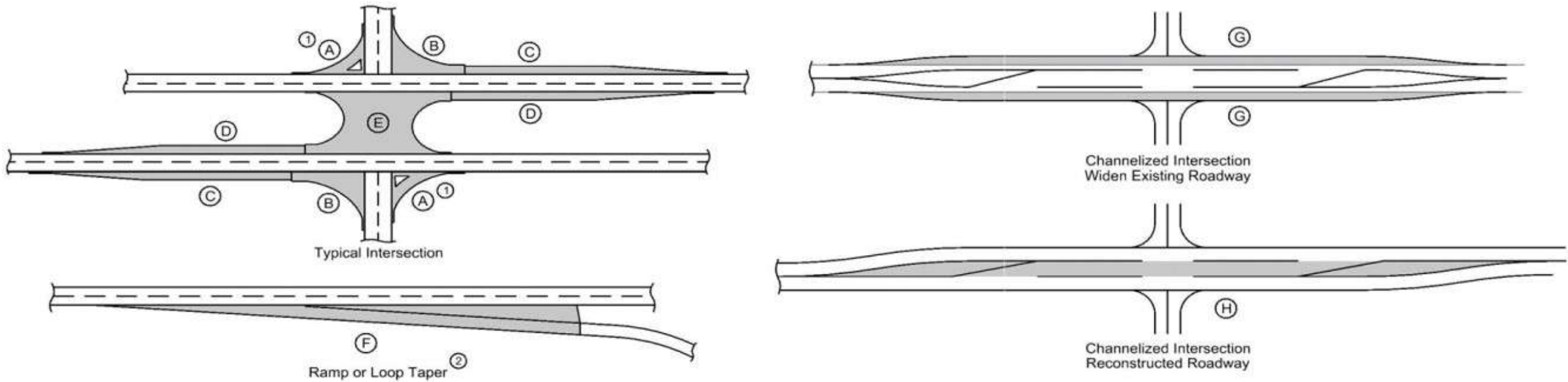
HMA PAVEMENT



(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.

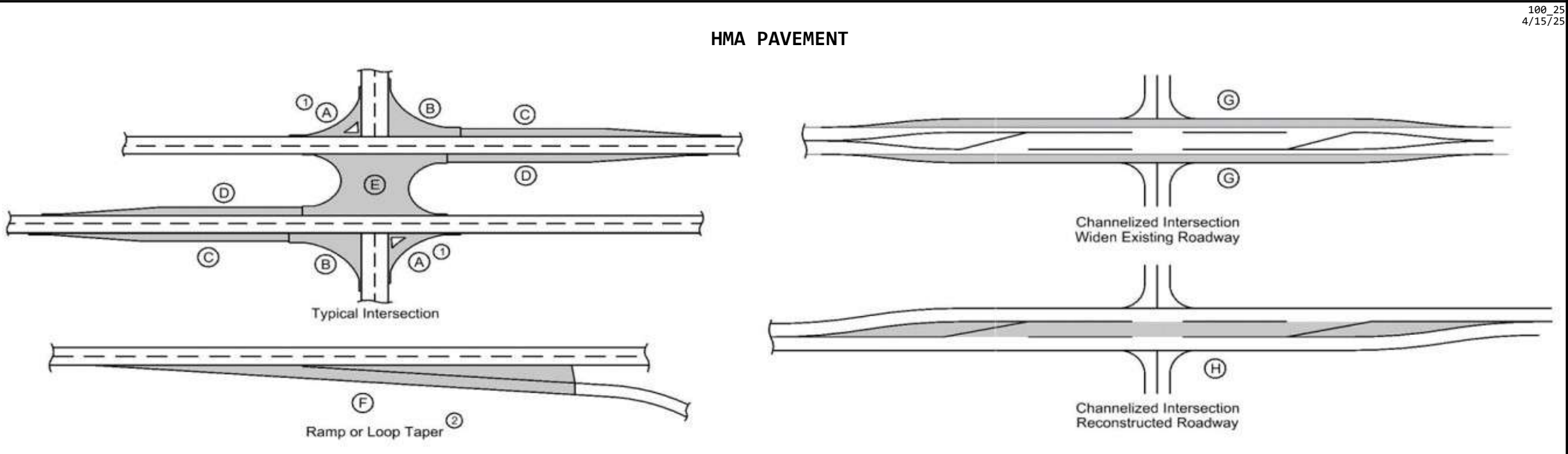
Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	HMA Pavement Surface (TONS)	HMA Pavement Surface (SY)	HMA Pavement Intermediate (TONS)	HMA Pavement Intermediate (SY)	CIPR (SY)	Binder Surface (TONS)	Binder Intermediate (TONS)	Foamed Asphalt (TON)	Modified Subbase (CY)	Granular Subbase (SY)	Hot In-Place Recycling (SY)	Remarks
IA 9	both	563+43.44	565+43.00	36.0	199.56	798.24	66.004	798.24	66.004	399.12		3.960	3.960					
IA 9	both	565+43.00	582+30.00	52.5	1687.00	9849.35	814.418	9849.35	814.418	9689.10	9849.35	48.865	48.865	640.208				includes sideroad fillets & proposed turn lane
IA 9	both	582+30.00	775+13.50	36.0	19283.50	77134.00	6378.018	77134.00	6378.018	77134.00	77134.00	382.681	382.681	5013.710				
IA 9	both	775+13.50	776+63.50	36.0	150.00	600.00	49.612	600.00	49.612	300.00		2.977	2.977					
IA 9	both	779+96.50	781+46.50	36.0	9909.50	39638.00	3277.567	39638.00	3277.567	39638.00	39638.00	196.654	196.654	2576.470				
IA 9	both	781+46.50	875+73.00	36.0	9426.50	37706.00	3117.815	39638.00	3117.815	37706.00	37706.00	187.069	187.069					
IA 9	both	875+73.00	877+23.00	36.0	150.00	600.00	49.612	600.00	49.612	300.00		2.977	2.977					
IA 9	both	879+83.00	881+33.00	36.0	150.00	600.00	49.612	600.00	49.612	300.00		2.977	2.977					
IA 9	both	881+33.00	1194+98.10	36.0	31365.10	125460.40	10374.007	125460.40	10374.007	125418.10	125460.40	622.440	622.440	5013.710				
IA 9	both	1194+98.10	1215+23.30	44.0	2025.20	9910.30	819.458	9910.30	819.458	9910.30	9910.30	49.167	49.167					includes turn lane & sideroad fillet
IA 9	EB	1280+56.00	1282+06.00	36.0	150.00	600.00	49.612	600.00	49.612	300.00		2.977	2.977					
Rampart	Rt	679+11.40			67911.40		5.700	68.50	5.700	68.50		0.300	0.300					Div. 1
Shadow	Lt	705+56.30			70556.30		6.400	77.90	6.400	77.90		0.400	0.400					Div. 1
Shadow	Rt	705+56.30			70556.30		2.700	32.80	2.700	32.80		0.200	0.200					Div. 1
Shadow	Rt	731+93.20			73193.20		5.700	64.70	5.700	64.70		0.300	0.500					Div. 1
Timber	Rt	770+92.90			77092.90		5.900	71.90	5.900	71.90		0.400	0.400					Div. 1
360th	Rt	780+00.00			78000.00		13.300	161.40	6.700	80.70		0.800	0.400					Div. 1
Walnut	Rt	1187+60.68			118760.68		10.800	131.20	5.400	65.60		0.700	0.300					Div. 1
370th	Lt	827+04.20			82704.20		5.300	64.10	5.300	64.10		0.300	0.300					Div. 1
370th	Rt	827+04.20			82704.20		3.800	46.50	3.800	46.50		0.200	0.200					Div. 1
380th	Lt	880+68.98			88068.98		8.800	106.00	8.800	106.00		0.500	0.500					Div. 1
380th	Rt	880+68.98			88068.98		4.600	55.50	4.600	55.50		0.300	0.300					Div. 1
390th	Rt	932+46.10			93246.10		3.100	36.90	3.100	36.90		0.200	0.200					Div. 1
400th	Lt	985+18.50			98518.50		4.000	48.60	4.000	48.60		0.200	0.200					Div. 1

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.

Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	HMA Pavement Surface (TONS)	HMA Pavement Surface (SY)	HMA Pavement Intermediate (TONS)	HMA Pavement Intermediate (SY)	CIPR (SY)	Binder Surface (TONS)	Binder Intermediate (TONS)	Foamed Asphalt (TON)	Modified Subbase (CY)	Granular Subbase (SY)	Hot In-Place Recycling (SY)	Remarks
400th	Rt	985+18.50			98518.50		4.100	50.10	4.100	50.10		0.200	0.200					Div. 1
Timber	Lt	1033+75.19			103375.19		5.800	70.50	5.800	70.50		0.300	0.300					Div. 1
Underwood	Lt	1083+62.10			108362.10		5.200	63.40	5.200	63.40		0.300	0.300					Div. 1
Underwood	Rt	1083+62.10			108362.10		5.500	67.10	5.500	67.10		0.300	0.300					Div. 1
Valley	Lt	1187+46.85			118746.85		4.300	52.50	4.300	52.50		0.300	0.300					Div. 1
Valley	Rt	1187+46.85			118746.85		5.500	67.10	5.500	67.10		0.300	0.300					Div. 1
Windfall	Lt	1251+15.43			125115.43		4.300	52.50	4.300	52.50		0.300	0.300					Div. 1
Windfall	Rt	1251+15.43			125115.43		2.600	31.60	2.600	31.60		0.200	0.200					Div. 1
Rampart	Rt	679+11.40			67911.40		30.782	279.20	61.564	279.20		1.847	3.694					Div. 2
Shadow	Lt	705+56.30			70556.30		38.786	351.80	77.572	351.80		2.327	4.654					Div. 2
Shadow	Rt	705+56.30			70556.30		14.961	135.70	29.922	135.70		0.898	1.795					Div. 2
Shadow	Rt	731+93.20			73193.20		33.858	307.10	67.716	307.10		2.031	4.063					Div. 2
Timber	Rt	770+92.90			77092.90		42.093	381.80	84.187	381.80		2.526	5.051					Div. 2
370th	Lt	827+04.20			82704.20		32.623	295.90	65.246	295.90		1.957	3.915					Div. 2
370th	Rt	827+04.20			82704.20		21.565	195.60	43.130	195.60		1.294	2.588					Div. 2
380th	Lt	880+68.98			88068.98		29.823	270.50	59.645	270.50		1.789	3.579					Div. 2
380th	Rt	880+68.98			88068.98		29.227	265.10	58.455	265.10		1.754	3.507					Div. 2
390th	Rt	932+46.10			93246.10		17.331	157.20	34.663	157.20		1.040	2.080					Div. 2
400th	Lt	985+18.50			98518.50		22.943	208.10	45.886	208.10		1.377	2.753					Div. 2
400th	Rt	985+18.50			98518.50		23.406	212.30	46.812	212.30		1.404	2.809					Div. 2
Timber	Lt	1033+75.19			103375.19		44.993	408.10	89.986	408.10		2.700	5.399					Div. 2
Underwood	Lt	1083+62.10			108362.10		25.457	230.90	50.913	230.90		1.527	3.055					Div. 2
Underwood	Rt	1083+62.10			108362.10		29.338	266.10	58.675	266.10		1.760	3.521					Div. 2
Valley	Lt	1187+46.85			118746.85		20.914	189.70	41.829	189.70		1.255	2.510					Div. 2



Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	HMA Pavement Surface (TONS)	HMA Pavement Surface (SY)	HMA Pavement Intermediate (TONS)	HMA Pavement Intermediate (SY)	CIPR (SY)	Binder Surface (TONS)	Binder Intermediate (TONS)	Foamed Asphalt (TON)	Modified Subbase (CY)	Granular Subbase (SY)	Hot In-Place Recycling (SY)	Remarks
Valley	Rt	1187+46.85			118746.85		24.663	223.70	49.326	223.70		1.480	2.960					Div. 2
Windfall	Lt	1251+15.43			125115.43		17.056	154.70	34.111	154.70		1.023	2.047					Div. 2
Windfall	Rt	1251+15.43			125115.43		13.638	123.70	27.276	123.70		0.818	1.637					Div. 2
Total:							25676.592		26178.049		299698.05	1540.551	1570.761	13244.098				

102_05 9/29/23																					
EXISTING PAVEMENT																					
Line No.	County	Route	Direction of Travel	Begin Ref. Location Sign	End Ref. Location Sign	Year	Type	Project Number	Surface Type	Surface Depth (IN)	Base Type	Base Depth (IN)	Subbase Type	Subbase Depth (IN)	Removal Type	Removal Depth (IN)	Coarse Aggregate Source	Coarse Aggregate Type	Course Aggregate Durability Class	Reinforcement Type	Remarks
1.0	Mitchell	IA 9		203.28	206.78	1935		NRH-368	ACC	7.0							MASON CITY	GRAVEL	2		
2.0	Mitchell	IA 9		203.28	206.78	1963		FN-368	BAC	2.0							FALK QRY.	C.LST			
3.0	Mitchell	IA 9		203.28	206.78	1979		FR-9-6(23)--2G-66	ACC	1.5	TRB	1.5					MOSSVILLE	C.LST			
4.0	Mitchell	IA 9		203.28	206.78	1997		STPN-9-6(45)--2J-66	PC7	2.0	BAC	2.0					DYNE	C.LST			
5.0	Mitchell	IA 9		206.78	216.86	1933		NRH-368 & F-368ABC	ACC	7.0							MASON CITY	GRAVEL	2		SHELL ROCK GR=2
6.0	Mitchell	IA 9		206.78	216.86	1963		FN-368	BAC	2.0							FALK QRY.	C.LST			
7.0	Mitchell	IA 9		206.78	216.86	1979		FR-9-6(23)--2G-66	ACC	1.5	TRB	1.5					MOSSVILLE	C.LST			V.L. F-DEP AC
8.0	Mitchell	IA 9		206.78	216.86	1997		STPN-9-6(45)--2J-66	PC7	2.0	BAC	2.0					DYNE	C.LST			

FULL-DEPTH PATCHES																			
Count	Station	Reference Location Sign	Lane	Length (FT)	Width (FT)	Patch Thickness (IN)	Patch Repair or Finish	PCC Patch Type	PCC Patch Quantity (SY)	HMA Patches (SY)	Composite HMA (TON)	Subbase Patches (PR-140) (SY)	Subbase Patch with 'EF' Joint (PR-101) (SY)	Patch Subdrain PR-101 or PR-140 (No.)	'CD' Joints (No.)	'CT' Joints (No.)	'EF' Joints PR-101 (No.)	Anchor Lugs Removal (No.)	Remarks
1	574+26.00		Right	8.0	5.0		Repair	PCC With Dowels (PR-103)	4.4										stop island
1	575+03.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										Center Lane
1	578+77.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										Center Lane
1	580+31.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	580+31.00		Right	8.0	9.0		Repair	PCC With Dowels (PR-103)	8.0										Center Lane
1	580+31.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	589+98.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	589+98.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	592+03.00		Left	60.0	12.0		Repair	PCC With Dowels (PR-103)	80.0						2				
1	592+03.00		Right	60.0	12.0		Repair	PCC With Dowels (PR-103)	80.0						2				
1	605+81.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	624+71.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	624+71.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	627+76.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	627+76.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	631+28.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	631+28.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	634+93.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	634+93.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	643+52.00		Left	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	643+52.00		Right	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	646+56.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	646+56.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	655+20.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	655+20.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	661+77.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	661+77.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	669+88.00		Left	15.0	12.0		Repair	PCC With Dowels (PR-103)	20.0										
1	669+88.00		Right	15.0	12.0		Repair	PCC With Dowels (PR-103)	20.0										
1	677+06.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	677+06.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	687+45.00		Left	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	687+45.00		Right	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	738+03.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	795+63.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	795+63.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	819+28.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	819+28.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	863+94.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	863+94.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	889+04.00		Right	40.0	12.0		Repair	PCC With Dowels (PR-103)	53.3						1				
1	890+46.00		Left	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	890+46.00		Right	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	905+59.00		Left	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	905+59.00		Right	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	927+19.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	927+19.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	933+03.00		Left	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	933+03.00		Right	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	977+58.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	977+58.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	989+74.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	989+74.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1014+68.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1102+33.00		Left	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	1102+33.00		Right	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	1134+62.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										

102_06C
4/4/24

FULL-DEPTH PATCHES																			
Count	Station	Reference Location Sign	Lane	Length (FT)	Width (FT)	Patch Thickness (IN)	Patch Repair or Finish	PCC Patch Type	PCC Patch Quantity (SY)	HMA Patches (SY)	Composite HMA (TON)	Subbase Patches (PR-140) (SY)	Subbase Patch with 'EF' Joint (PR-101) (SY)	Patch Subdrain PR-101 or PR-140 (No.)	'CD' Joints (No.)	'CT' Joints (No.)	'EF' Joints PR-101 (No.)	Anchor Lugs Removal (No.)	Remarks
1	1134+62.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1159+50.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1159+50.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1195+00.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1195+00.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1204+09.00		Left	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										
1	1204+09.00		Right	10.0	12.0		Repair	PCC With Dowels (PR-103)	13.3										Center Lane
1	1247+32.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1247+32.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1253+66.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1259+05.00		Left	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1259+05.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
1	1267+11.00		Right	8.0	12.0		Repair	PCC With Dowels (PR-103)	10.7										
Total: 71									989.5										

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.

Station	Type of Notch or Runout	S (IN)	I (IN)	L (FT)	Pavement Scarification (SY) (1)	Remarks
779+94.00	Type N3	1.5	1.5	150.0	547.0	bridge
774+31.00	Type N3	1.5	1.5	150.0	640.0	bridge
564+64.40	Type N3	1.5	1.5	150.0	200.0	BOP
573+69.94	Type N3	1.5	1.5	10.0	45.0	Primrose Ave
573+69.94	Type N3	1.5	1.5	10.0	304.8	US 218
780+00.00	Type N3	1.5	1.5	10.0	80.7	360th St
877+23.00		1.5	1.5	150.0	200.0	DR-3
879+83.00		1.5	1.5	150.0	200.0	DR-3
1187+60.68	Type N3	1.5	1.5	10.0	65.6	Walnut Rt.
1205+44.46	Type N3	1.5	1.5	10.0	83.8	Walnut Lt.
1282+06.00	Type N3	1.5	1.5	150.0	200.0	EOP
Total:					2566.9	

104_13 11/1/24																										
FORESLOPE FLATTENING AND DRAINAGE STRUCTURES BY ROAD CONTRACTOR (MAINLINE PIPES)																										
Refer to Standard Road Plans DR-121, DR-122, and DR-213.																										
* Not a bid item																										
Location	Existing Size of Culvert	Existing Type of Culvert	New Size of Culvert (IN)	New Type of Culvert	Length of New Construction (LF)	Flow Line Elevation Left	Flow Line Elevation Right	Dimension Total Left (LF)	Dimension Total Right (LF)	Dimension Extension Left (LF)	Dimension Extension Right (LF)	Remove and Reinstall Aprons Left (No.)	Remove and Reinstall Aprons Right (No.)	Remove and Reinstall Culvert Left* (No.)	Remove and Reinstall Culvert Left (FT)	Remove and Reinstall Culvert Right* (No.)	Remove and Reinstall Culvert Right (FT)	New Apron In (No.)	New Apron Out (No.)	Apron Guard DR-213* (No.)	Type 'C' Connection DR-122* (Type)	Type 'C' Connection DR-122* (No.)	Pipe Joint DR-121* (Type)	Embank.- In-Place (CY)	Class 20 (CY)	Remarks
578+67.00	30.0	RCP										1	1	2	12.0	2	12.0						Type 3		68.0	
582+50.00		CMP																1	1							18'' inlet/24'' outlet
586+63.00	18.0	CMP																1	1							
589+35.00	24.0	CMP																1	1							911 #2521
610+50.00	24.0	CMP																1	1							
612+01.00	24.0	CMP																1	1							
612+82.00	24.0	CMP																1	1							
615+67.00	24.0	CMP																1	1							911 #2579
618+51.00	24.0	CMP																1	1							
628+36.00	24.0	CMP																1	1							911 #2609
628+36.00	24.0	CMP																1	1							ent rt
633+25.00	24.0	CMP																1	1							911 #2614
649+39.00	24.0	CMP								10.00	10.00							1	1					8.0		
675+60.00	24.0	CMP	24.0	CMP	60.0													1	1						12.0	replacing existing pipe
676+00.00	30.0	CMP																1	1							
679+37.00	24.0	CMP																1						8.0		911 #2701
702+57.00	24.0	CMP																1	1							
705+52.00	24.0	CMP																1	1							
705+56.00	18.0	CMP																	1					8.0		Shadow ave.
721+10.00	24.0	CMP																1	1							
721+55.00	24.0	CMP																1	1							911 #2780
731+93.00	24.0	CMP																								
747+11.00	24.0	RCP										1	1	2	12.0	2	12.0						Type 3		68.0	West of 911 #2839
754+43.00	18.0	CMP																1	1							911 #2845
755+50.00	24.0	CMP																1	1							
755+77.00	24.0	CMP																1	1							
760+22.00	24.0	CMP																1	1							
793+88.00	24.0	CMP																1	1							
793+88.00	36.0	CMP																1	1							
800+73.00	36.0	CMP																1	1							
813+81.00	24.0	CMP																1	1							
810+75.00	18.0	CMP																1	1					8.0		
840+19.00	24.0	CMP																1	1					8.0		
840+19.00	24.0	CMP																1	1							
866+55.00	24.0	CMP																1	1							
924+63.00	24.0	CMP																1	1							911 #3815
924+58.00	18.0	CMP																1	1					8.0		911 #3818
912+69.00	24.0	CMP																1	1					8.0		
915+00.00	24.0	CMP																1	1					8.0		
919+15.00	24.0	CMP																1	1					8.0		
945+55.00	24.0	CMP																1	1							
950+25.00	24.0	CMP																1	1					8.0		
952+50.00	24.0	CMP																1	1					8.0		
953+69.00	24.0	CMP																1	1							911 #3849
955+66.00	24.0	RCP											1					1					Type 3		12.0	
970+44.00	30.0	RCP											1			2	12.0						Type 3		34.0	
977+10.00	24.0	CMP																1	1					8.0		
977+10.00	24.0	CMP																1	1					8.0		
989+90.00	18.0	CMP																1	1					8.0		911 #4010
989+90.00	18.0	CMP																1	1							

104_13

11/1/24

FORESLOPE FLATTENING AND DRAINAGE STRUCTURES BY ROAD CONTRACTOR (MAINLINE PIPES)

Refer to Standard Road Plans DR-121, DR-122, and DR-213.

* Not a bid item

Location	Existing Size of Culvert	Existing Type of Culvert	New Size of Culvert (IN)	New Type of Culvert	Length of New Construction (LF)	Flow Line Elevation Left	Flow Line Elevation Right	Dimension Total Left (LF)	Dimension Total Right (LF)	Dimension Extension Left (LF)	Dimension Extension Right (LF)	Remove and Reinstall Aprons Left (No.)	Remove and Reinstall Aprons Right (No.)	Remove and Reinstall Culvert Left* (No.)	Remove and Reinstall Culvert Left (FT)	Remove and Reinstall Culvert Right* (No.)	Remove and Reinstall Culvert Right (FT)	New Apron In (No.)	New Apron Out (No.)	Apron Guard DR-213* (No.)	Type 'C' Connection DR-122* (Type)	Type 'C' Connection DR-122* (No.)	Pipe Joint DR-121* (Type)	Embank.- In-Place (CY)	Class 20 (CY)	Remarks
1008+25.00	24.0	CMP																1	1					8.0		
1009+46.00	24.0	CMP																1	1					8.0		911 #4049
1026+25.00	24.0	CMP																1	1							
1033+70.00	24.0	CMP																1	1							
1040+00.00	24.0	CMP																1	1					8.0		
1044+00.00	24.0	CMP																1	1							
1087+72.00	24.0	CMP																1	1							
1103+00.00	24.0	CMP																1	1							
1115+50.00	24.0	CMP																1	1							
1123+80.00	24.0	CMP																1	1					8.0		
1123+80.00	18.0	CMP																1	1					8.0		
1126+60.00	18.0	CMP																1	1							
1126+85.00	24.0	CMP																1	1							
1155+64.00	24.0	CMP																1	1							
1168+48.00	24.0	CMP																1	1					8.0		
1168+48.00	24.0	CMP																1	1							
1238+14.00	24.0	RCP										1											Type 3			
1239+00.00	24.0	CMP																1	1					8.0		
1258+27.00	36.0	CMP																1	1					8.0		
1265+00.00	18.0	CMP																1	1							
1270+90.00	18.0	CMP																1	1					8.0		911 #3336
1271+17.00	18.0	CMP																1	1					8.0		911 #3337
1275+43.00	18.0	CMP																1	1							911 #3343
Total:																							192	194		

105_04 4/15/25 STANDARDS The following Standards apply to construction work on this project.		
Number	Date	Title
BA-200	04-15-25	Steel Beam Guardrail Components
BA-201	10-18-22	Steel Beam Guardrail Barrier Transition Section (MASH TL-3)
BA-202	04-15-25	Steel Beam Guardrail Bolted End Anchor
BA-205	10-17-23	Steel Beam Guardrail Tangent End Terminal (MASH TL-3)
BA-251	10-21-25	Steel Beam Guardrail Installation at Side Object (Two-Way Protection)
DR-303	10-17-17	Subdrains (Longitudinal)
DR-305	04-19-22	Subdrain Outlets (Standard Subdrain, Pressure Release and Special)
EC-201	04-20-21	Silt Fence
EC-204	10-19-21	Perimeter, Slope and Ditch Check Sediment Control Devices
EW-101	10-17-17	Embankment and Rebuilding Embankments
EW-301	04-16-24	Guardrail Grading
EW-501	10-17-23	Rural Entrance
PM-110	10-15-24	Line Types
PM-111	04-21-20	Symbols and Legends
PM-420	10-15-24	Two-Lane Roadway with no Turn Lanes (One-Way Stop Condition)
PM-520	10-15-24	Two-Lane Roadway with no Turn Lanes (Two-Way Stop Condition)
PM-521	10-15-24	Two-Lane Roadway with Right Turn Lanes
PM-522	10-15-24	Two-Lane Roadway with Left Turn Lanes
PR-101	10-21-25	Full Depth Patch with 'EF' Joint in PCC
PR-201	10-21-14	Runouts for Resurfacing
PR-202	10-21-14	Notches for Resurfacing (with or without Runout)
PV-101	10-21-21	Joints
PV-13	04-16-24	Milled Centerline Rumble Strips
PV-202	04-21-20	Hot Mix Asphalt Resurfacing
PV-203	04-21-20	HMA Base Widening
PV-12	04-16-24	Milled Shoulder Rumble Strips
SI-101	04-19-16	Locations - Type 'A' Signs
SI-121	10-16-18	Fabrication - Sign Legend Components
SI-131	10-18-16	Installation - Type 'A' Signs
SI-133	10-17-17	Installation - Type 'A' Sign Shim
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-202	04-18-23	Work Within 15 ft of Traveled Way
TC-213	04-18-23	Lane Closure with Flaggers
TC-214	04-18-23	Lane Closure with Flaggers for use with Pilot Car
TC-282	10-15-19	Uneven Lanes

107_23

8/15/22

GRADING FOR GUARDRAIL INSTALLATIONS

Refer to EW-301.

(1) Lane(s) to which the installation is adjacent.

Line No.	Direction of Traffic (1)	Station	Side	Foreslope at Guardrail	X1 (FT)	Y1 (FT)	X2 (FT)	Y2 (FT)	X3 (FT)	Y3 (FT)	X4 (FT)	Y4 (FT)	Z (FT)	Excavation Class 10 (CY)	Embankment-in-Place (CY)	Remarks
1.0	SB	877+93.50	Left	3	42.7	5.0					98.9	7.0	47.0		59.3	
2.0	NB	877+93.50	Right	3	100.1	5.0	117.6	6.7			173.7	9.0	54.0		266.6	
Total:															325.9	

108_08A
4/25/25

STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION																			
Possible Standards: BA-200, BA-201, BA-202, BA-205, BA-206, BA-209, BA-210, BA-211, BA-221, BA-225, BA-250, BA-260, LS-625, LS-626, LS-630, LS-635, SI-172, SI-173 and SI-211.																			
(1) Lane(s) to which the obstacle is adjacent.																			
(2) Not a bid item. Incidental to guardrail installation.																			
Line No.	Direction of Travel (1)	Side	Station	Offset (FT)	Barrier Transition Section	Barrier Transition Section (EA)	End Terminal	End Terminal Count (EA)	VT1 (LF)	VF (LF)	VT2 (LF)	ET (LF)	SI-211 (Type) (2)	Object Marker Type 3 Lt (EA)(2)	Object Marker Type 3 Rt (EA)(2)	Bolted End Anchor BA-202 (Type)	Bolted End Anchor BA-202 (EA)	Steel Beam Guardrail BA-200 (LF)	Remarks
1.0	SB	Left	877+90.51	10.0	BA-201		BA-205	1	53.125	18.75	6.25	47.70	3	1	1	B	1	37.5	
2.0	NB	Right	877+90.51	10.0	BA-201		BA-205	1	103.125	18.75	6.25	47.70	3	1	1	B	1	87.5	
Total:								2						2	2		2	125	

108_22

10/21/25

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.

***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17

BCY6: Broken Centerline (Yellow) @ 0.25

BLC6: Broken Line Contrast (White/Black) @ 0.50

BLW4: Broken Lane Line (White) @ 0.17

BLW6: Broken Lane Line (White) @ 0.25

CBW6: Crosswalk Bar (White) @ 10.00

CHW8: Channelizing Line (White) @ 1.33

CHW10: Channelizing Line (White) @ 1.67

CHY8: Channelizing Line (Yellow) @ 1.33

CHY10: Channelizing Line (Yellow) @ 1.67

CLW6: Crosswalk Line (White) @ 2.00

DCY4: Double Centerline (Yellow) @ 1.34

DCY6: Double Centerline (Yellow) @ 2.00

DDY4: Double Dotted Line (Yellow) @ 0.44

DDY6: Double Dotted Line (Yellow) @ 0.67

DLW4: Dotted Line (White) @ 0.22

DLW6: Dotted Line (White) @ 0.33

DLY4: Dotted Line (Yellow) @ 0.22

DLY6: Dotted Line (Yellow) @ 0.33

ELW4: Edge Line Right (White) @ 0.67

ELW6: Edge Line Right (White) @ 1.00

ELY4: Edge Line Left (Yellow) @ 0.67

ELY6: Edge Line Left (Yellow) @ 1.00

LDW8: Lane Drop (White) @ 0.33

LDW10: Lane Drop (White) @ 0.42

MNY6: Median Nose (Yellow) @ 1.00

NPY4: No Passing Zone Line (Yellow) @ 0.84

NPY6: No Passing Zone Line (Yellow) @ 1.25

RLW4: Ramp Edge Line Right (White) @ 0.67

RLW6: Ramp Edge Line Right (White) @ 1.00

RLY4: Ramp Edge Line Left (Yellow) @ 0.67

RLY6: Ramp Edge Line Left (Yellow) @ 1.00

SLW2: Stop Line (White) @ 4.00

SLW4: Solid Lane Line (White) @ 0.67

SLW6: Solid Lane Line (White) @ 1.00

SPW4: Sloped Curb 4" (White) @ 2.16

SPW6: Sloped Curb 6" (White) @ 2.28

SPY4: Sloped Curb 4" (Yellow) @ 2.16

SPY6: Sloped Curb 6" (Yellow) @ 2.28

STW6: Standard Curb 6" (Yellow) @ 2.03

STY6: Standard Curb 6" (Yellow) @ 2.03

YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Station From	Station To	Ref. Locati on Sign	Ref. Locati on Sign	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY4* Factored (STA)	BCY6 Factor ed (STA)	BLW4 Factored (STA)	CHY10 Factor ed (STA)	DCY4 Factored (STA)	DCY6 Factor ed (STA)	ELW6 Factor ed (STA)	ELY4 Factored (STA)	NPY6** Factor ed (STA)	SLW2 Factor ed (STA)	SLW6 Factor ed (STA)	Remarks
1.0	IA 9	564+64.40	795+50.00				Waterborne/Solvent Paint	x	x	x				44.90				26.00	461.70		33.00			Quantities Calculated for one application.
2.0	IA 9	756+63.44	1049+42.56				Waterborne/Solvent Paint	x	x	x				34.58				26.00	585.60		36.80			
3.0	IA 9	1049+42.58	1192+33.58				Waterborne/Solvent Paint	x	x	x				34.58				20.00	285.80		12.20			
4.0	IA 9	1232+26.15	1280+00.00				Waterborne/Solvent Paint	x	x	x								18.00	28.90		36.10			
5.0	IA 9	1196+74.00	1212+74.00				Waterborne/Solvent Paint									63.76								
6.0	IA 9	566+70.00	582+13.00				Waterborne/Solvent Paint									63.83								
7.0	US 218						Waterborne/Solvent Paint		x													1.84	3.60	
8.0	Walnut						Waterborne/Solvent Paint															3.52	4.00	
9.0	Primrose						Waterborne/Solvent Paint															1.52		
10.0	360th						Waterborne/Solvent Paint															1.60		
11.0	IA 9	564+64.40	795+50.00					x		x	Yes	461.70												ELW6
12.0	IA 9	756+63.44	1049+42.56					x		x	Yes	585.60												ELW6
13.0	IA 9	1049+42.58	1192+33.58					x		x	Yes	285.80												ELW6
14.0	IA 9	1232+26.15	1280+00.00					x		x	Yes	95.50												ELW6
15.0	IA 9	1196+74.00	1212+74.00						x		Yes	3818.00												CHY10
16.0	IA 9	566+70.00	582+13.00						x		Yes	3822.00												CHY10
17.0	IA 9										Yes	2.12												SLW2
18.0	IA 9										Yes	4.00												SLW6
Total:												9074.72		114.06		127.59		90	1362		118.1	8.48	7.6	

PAVEMENT MARKING SYMBOLS AND LEGENDS							108 29 4/15/25
Refer to PM-111							
Line No.	Roadway Identification	Station	Side	Pavement Symbol	Quantity (EA)	Groove Marking Needed?	Remarks
1.0	IA 9	1207+05.00	Left	RTAW	1	Yes	Thermoplastic
1.0	IA 9	1206+30.00	Left	RTAW	1	Yes	Thermoplastic

110_07A 8/15/22 REMOVAL OF STEEL BEAM GUARDRAIL (1) Lane(s) to which the installation is adjacent. (2) Includes length of End Terminals and End Anchors.				
Direction of Traffic (1)	Station From	Station To	Side	Removal of Guardrail (2) (LF)
SB	877+35.50	877+93.50	Left	58.0
NB	877+35.50	877+92.50	Right	58.0
SB	879+12.50	879+70.50	Left	58.0
NB	879+12.50	879+70.50	Right	58.0
Total:				232

UTILITIES				
Line No.	Company	Contact	Phone	Email
1.0	ALLIANCE PIPELINE	Andrew Surrett	8889452255	Andrew.surrett@magellanlp.com
2.0	CENTURYLINK	SADIE HULL	9185470147	sadie.hull@lumen.com
3.0	OMNITEL COMMUNICATIONS	Ryan Flugge	6417492531	rflugge@omnitel.biz
4.0	HEARTLAND POWER COOPERATIVE	RANDY DIETERICH	6417134966	rditterich@heartlandpower.com
5.0	PEMBINA COCHIN LLC	Larry Raimann	6412283021	rditterich@heartlandpower.com
6.0	OSAGE MUNICIPAL ELECTRIC UTILITY	Jeff Schultz	6417323731	citygovt@osageia.org
7.0	OSAGE MUNICIPAL GAS UTILITY	Jeff Schultz	6417323731	citygovt@osageia.org
8.0	MEDIACOM	Bob Stalker	6414300748	rstalker@mediacomcc.com
9.0	IOWA DEPARTMENT OF TRANSPORTATION	Michelle Smith	6413945634	michelle.smith@iowadot.us

111_26
4/15/25

112.09
10/15/24

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) See Typ. 7156, 7157, or 7158.
(3) Bid Item.
(4) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(5) Bid Item. Typ. 7156, 7157, or 7158.
(6) Does not include shrink.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

Roadway Identification	Direction of Travel (1)	Station From	Station To	Side	P Width (FT)	P SG Width (2) (FT)	G Width (FT)	L Length (FT)	Class 13 Excavation (CY) (3) (4)	HMA (TON)	HMA (TON/ STA)	Binder (TONS)	Shoulder at Grd rail (5) (7)	Special Backfill HMA Alt. (3) (TON)	Special Backfill HMA Alt. (TON/STA)	Special Backfill PCC Alt. (3) (TON)	Special Backfill PCC Alt. (TON/STA)	Subbase (3) (8) (CY)	Granular Shoulder (3) (TON)	Granular Shoulder (TON/STA)	Shoulder Const. Alt (3) (STA)	Remarks	
IA 9	WB	563+43.44	572+69.00	Left	6		4	925.60	102.8	66.400	0.810	3.980							129.600	14.000	9.26	Typ. DR-1, Typ. DR-2, 7157	
IA 9	WB	574+59.00	774+63.50	Left	6		4	20004.50	2222.7	42.500	0.810	2.550							2800.600	14.000	200.04	Typ. DR-1, Typ. DR-2, 7157	
IA 3	WB	779+96.50	876+55.30	Left	6		4	9658.80	1073.2	2100.800	21.750	126.047							1352.200	14.000	96.59	Typ. DR-1, Typ. DR-2, 7157	
IA 3	WB	876+55.30	876+75.30	Left				20.00	3.0	5.100	25.375	0.304	15.6								0.20	See 7157	
IA 3	WB	876+75.30	877+29.00	Left				53.70	6.5	12.700	23.563	0.800	38.8								0.54	See 7157	
IA 3	WB	877+29.00	877+45.50	Left				16.50	1.7	3.300	19.938	0.200	10.1								0.17	See 7157	
IA 3	WB	877+45.50	877+78.50	Left				33.00	3.1	6.000	18.125	0.360	18.3								0.33	See 7157	
IA 9	WB	879+43.00	1204+51.00	Left	6		4	32508.00	3612.0	66.000	0.810	3.960							4551.100	14.000	325.08	Typ. DR-1, Typ. DR-2, 7157	
IA 9	WB	1157+43.70	1210+02.70	Left	6		4	5259.00	584.3	42.400	0.810	2.550							736.300	14.000	52.59	Typ. DR-1, Typ. DR-2, 7157	
IA 9	WB	1206+36.00	1282+06.00	Left	6		4	7570.00	841.1	135.600	0.810	8.130							1059.800	14.000	75.70	Typ. DR-1, Typ. DR-2, 7157	
IA 9	EB	563+43.44	574+91.00	Right	6		4	1147.56											160.700	14.000	11.48	Includes US 218 radius	
IA 9	EB	574+59.00	774+28.50	Right				19969.50	2218.8	201.300	1.010	12.079							160.658	14.000	199.69	Typ. DR-1, Typ. DR-2, 7157	
IA 9	EB	1151+41.40	1153+79.00	Right	6		4	237.60	26.4	51.700	21.750	3.100							33.264	14.000	2.38	Typ. DR-1, Typ. DR-2, 7157	
IA 9	EB	780+77.00	875+65.00	Right	6		4	9488.00	1054.2	2063.600	21.750	123.818							1328.320	14.000	94.88	Typ. DR-1, Typ. DR-2, 7157	
IA 3	EB	875+65.00	875+85.00	Right				20.00	3.0				18.2								0.20	See 7157	
IA 3	EB	875+85.00	876+56.00	Right				71.00	7.9				47.3								0.71	See 7157	
IA 3	EB	876+56.00	877+78.50	Right				122.50	11.3				68.1								1.23	See 7157	
IA 9	EB	879+43.00	1186+84.00	Right	6		4	30741.00	3415.7	6686.200	21.750	401.170							4303.740	14.000	307.41	Typ. DR-1, Typ. DR-2, 7157	
IA 9	EB	1188+44.50	1282+06.00	Right	6		4	9361.50	1040.2	2036.100	21.750	122.168							1310.610	14.000	93.61	Typ. DR-1, Typ. DR-2, 7157	
Total:									16227.9									17926.892			1472.09		

MILLED RUMBLE STRIPS

* Calculated at 18" width for Shoulder.
** For use with penetrating Engineered Fog Seal. Calculated at 2" wider than rumble strips.

Line No.	Road Identification	Station From	Station To	Shoulder Pavement Type	Rumble Strip Lane	Rumble Strip Type	Fog Seal Type	L (IN)	HMA Length (STA)	Fog Seal* Shoulder (GAL)	Fog Seal (SY)**	Remarks
1.0	IA 9	564+64.40	795+50.00	HMA	Left Shoulder	Milled	Asphalt Emulsion	12"	230.86	250.1	3847.7	
2.0	IA 9	795+63.44	1049+50.00	HMA	Left Shoulder	Milled	Asphalt Emulsion	12"	253.87	275.0	4231.2	
3.0	IA 9	1049+42.56	1192+50.00	HMA	Left Shoulder	Milled	Asphalt Emulsion	12"	143.07	155.0	2384.5	
4.0	IA 9	1192+33.58	1232+00.00	HMA	Left Shoulder	Milled	Asphalt Emulsion	12"	39.66	43.0	661.0	
5.0	IA 9	1232+26.15	1282+76.00	HMA	Left Shoulder	Milled	Asphalt Emulsion	12"	50.50	54.7	841.7	
6.0	IA 9	564+64.40	795+50.00	HMA	Centerline	Milled	Asphalt Emulsion	12"	230.86		3847.7	
7.0	IA 9	795+63.44	1049+50.00	HMA	Centerline	Milled	Asphalt Emulsion	12"	253.87		4231.2	
8.0	IA 9	1049+42.56	1192+50.00	HMA	Centerline	Milled	Asphalt Emulsion	12"	143.07		2384.5	
9.0	IA 9	1192+33.58	1232+00.00	HMA	Centerline	Milled	Asphalt Emulsion	12"	39.66		661.0	
10.0	IA 9	1232+26.15	1282+76.00	HMA	Centerline	Milled	Asphalt Emulsion	12"	50.50		841.7	
11.0	IA 9	564+64.40	795+50.00	HMA	Right Shoulder	Milled	Asphalt Emulsion	12"	230.86	250.1	3847.7	
12.0	IA 9	795+63.44	1049+50.00	HMA	Right Shoulder	Milled	Asphalt Emulsion	12"	253.87	275.0	4231.2	
13.0	IA 9	1049+42.56	1192+50.00	HMA	Right Shoulder	Milled	Asphalt Emulsion	12"	143.07	155.0	2384.5	
14.0	IA 9	1192+33.58	1232+00.00	HMA	Right Shoulder	Milled	Asphalt Emulsion	12"	39.66	43.0	661.0	
15.0	IA 9	1232+26.15	1282+76.00	HMA	Right Shoulder	Milled	Asphalt Emulsion	12"	50.50	54.7	841.7	
Total:									2153.88	1555.6		

EXISTING SIGNS TO BE REINSTALLED										190_61 2/10/23
Line No.	Sign Description	Direction of Travel	Location Station	Number of Posts	Square Tube Steel Posts	Wood Posts 4"x4" (L F)	Wood Posts 4"x6" (L F)	Installation Type	Installation Dim 'X'	See Signing Notes
1.0	Island - stop sign	NB	573+88.00	1	*			3.0		DOT will provide post and base.

DITCH RESHAPING See DR-3					302.99 Modified
Station From	Station To	Side	Length (Sta.)	Remarks	
70356	70576	right	2.0		
70356	70516	left	1.6	correct ponding	
Total:			3.6		

FILE NO.

ENGLISH

DESIGN TEAM

Rolando \ Nie

MITCHELL COUNTY

PROJECT NUMBER

STP-009-6(086)--2C-66

SHEET NUMBER

C.31

9/5/2025 4:51:42 PM

Duane.Nie@dot.iowa.gov

PROPERTY OWNERS
K. JAMES NEWTON
L. ROLLIN & CLARE ANGELL

Purchased From James Newton - Single (Fed)
George J. Rose Key Mitchell - H/W (C.P.)
Acquired June 26, 1974
Consideration \$11,563.00
Title By Warranty Deed
Recorded Book 63 Pages 110-112
County Recorded Mitchell

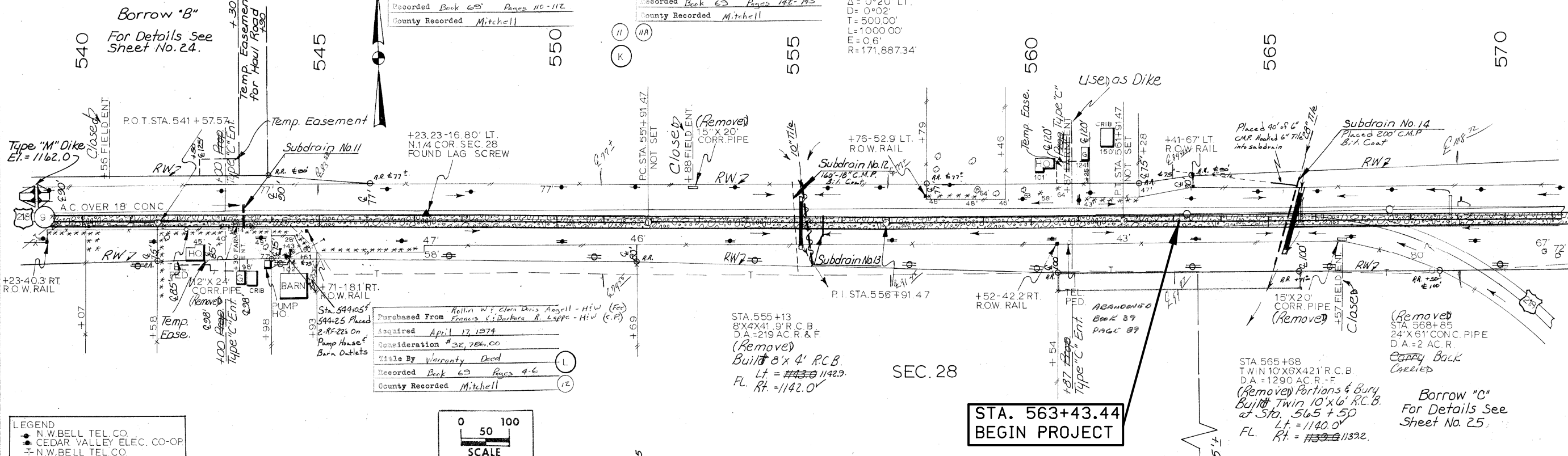
Purchased From Marion F. & Frank J. McCoy - H/W
Jeanne (Nied) (Gordon) w. Neil
Acquired July 24, 1974
Consideration \$25.00
Title By Warranty Deed (Mineral Rights Only)
Recorded Book 63 Pages 142-145
County Recorded Mitchell

BURR OAK TWP.
T98N R16W
SEC. 21

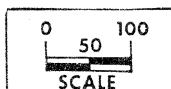
$\Delta = 0^{\circ}20' \text{ LT.}$
 $D = 0^{\circ}02'$
 $T = 500.00'$
 $L = 1000.00'$
 $E = 0.6'$
 $R = 171,887.34'$

Location of Predetermined Access

Sta. 543+00
Sta. 560+87



LEGEND
• N.W. BELL TEL. CO.
• CEDAR VALLEY ELEC. CO.-OP.
• N.W. BELL TEL. CO.

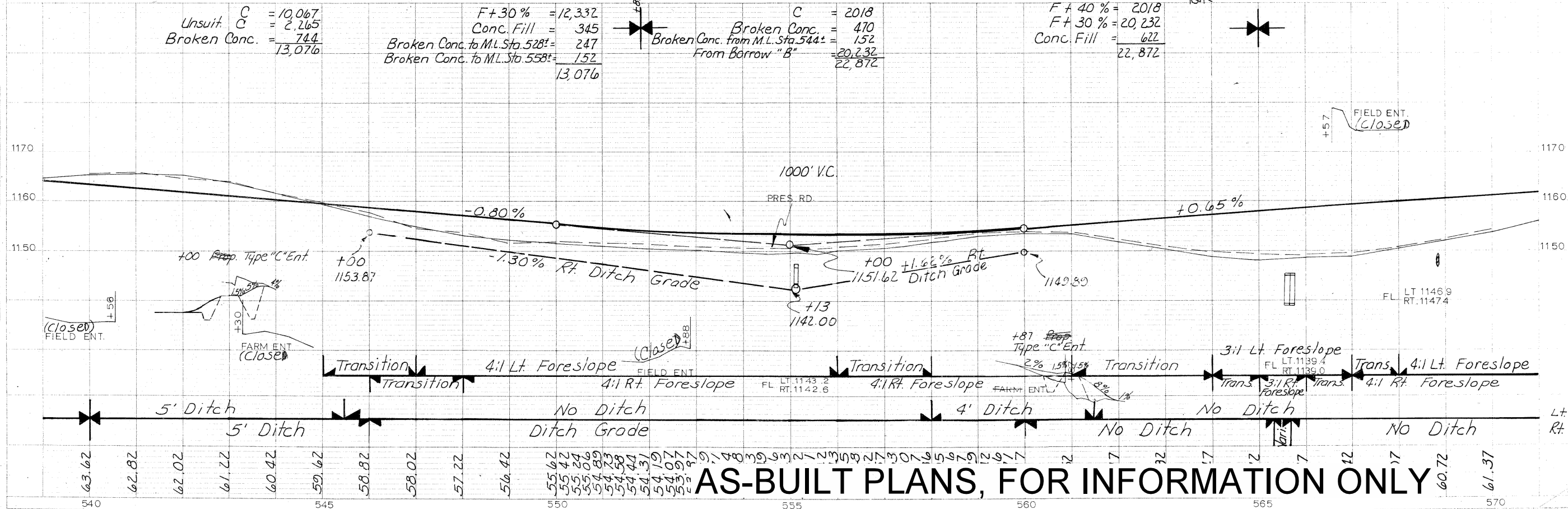


Unsuit. C = 10,067
Broken Conc. = 2,265
Broken Conc. = 744
13,076

F + 30% = 12,332
Conc. Fill = 345
Broken Conc. to M.L. Sta. 528 = 247
Broken Conc. to M.L. Sta. 558 = 152
13,076

C = 2018
Broken Conc. = 470
Broken Conc. from M.L. Sta. 544 = 152
From Borrow "B" = 20,232
22,872

F + 40% = 2018
F + 30% = 20,232
Conc. Fill = 622
22,872



AS-BUILT PLANS, FOR INFORMATION ONLY

MITCHELL CO

PROJECT NUMBER

STATE IOWA
FED. ROAD DIST. NO. 5
FISCAL YEAR 5
SHEET NO. 10
TOTAL SHEETS 16

PROJECT NUMBER
FN- 9-6(2)-21-66

STATE IOWA
FED. ROAD DIST. NO. 5
FISCAL YEAR 5
SHEET NO. 10
TOTAL SHEETS 16

FILE NO.

ENGLISH

DESIGN TEAM ROLANDO \ NIE

MITCHELL COUNTY

PROJECT NUMBER STP-009-6(086)--2C-66

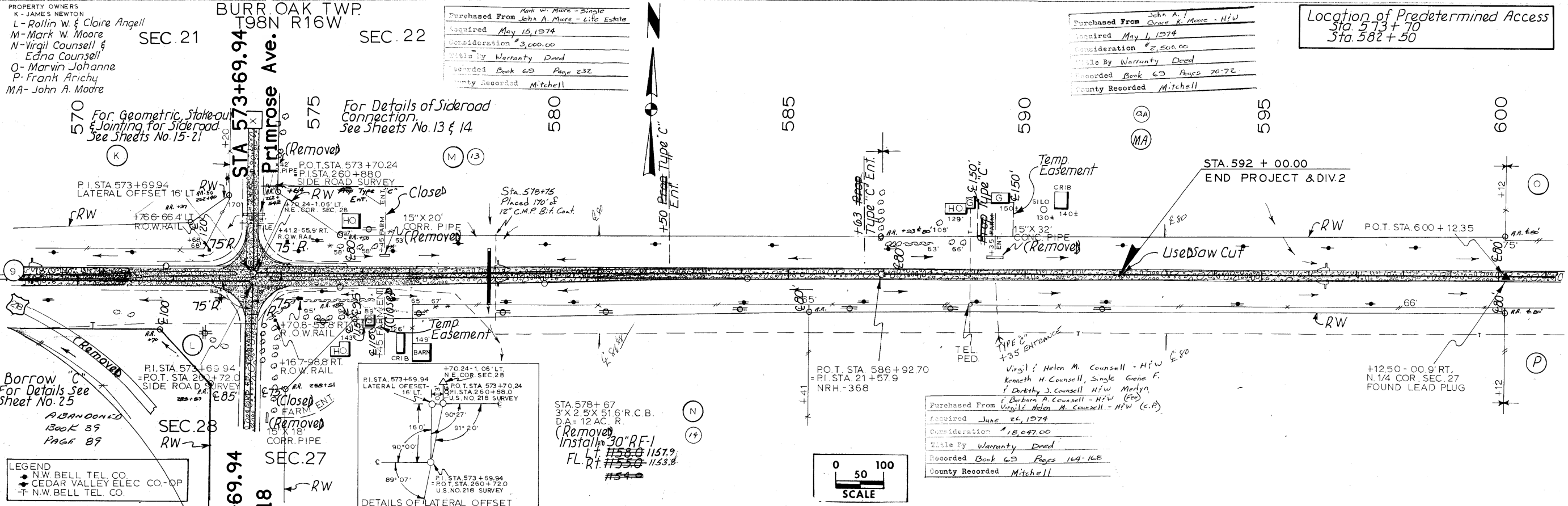
SHEET NUMBER D.1

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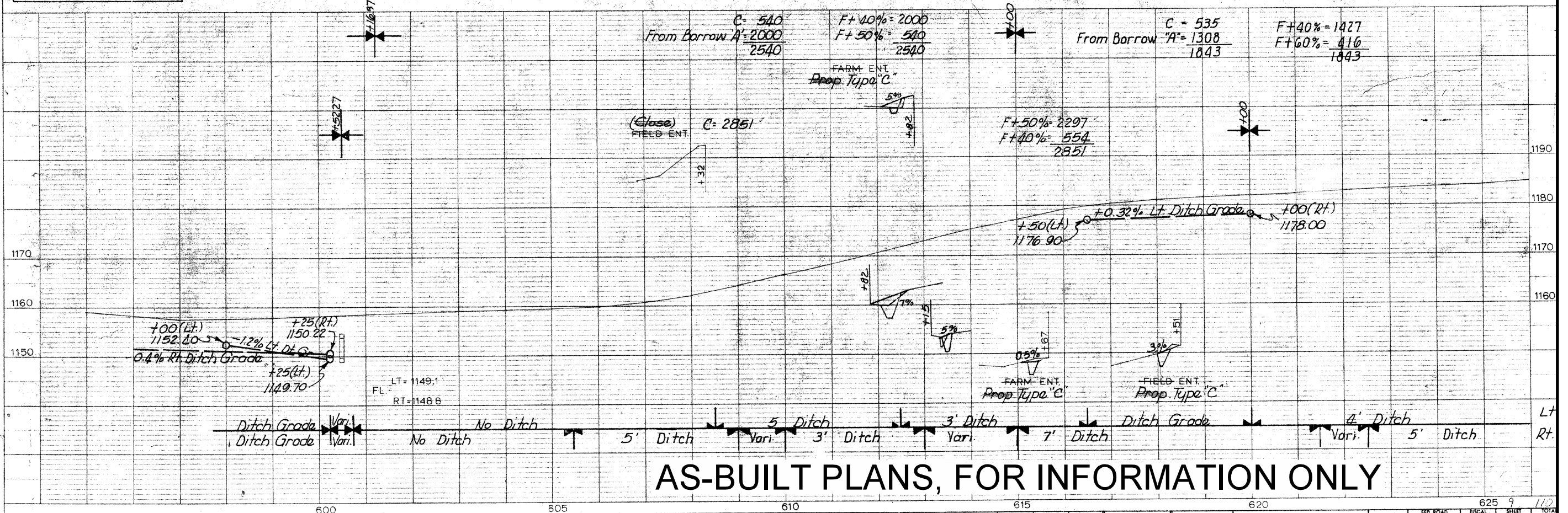
PROPERTY OWNERS
A-JOHN A. MOORE
B-HARRY E. COUNSELL
C-Frank & Catherine Arickx
D-Marvin & Rose Johans

BURR OAK TWP
T98N R16W
SEC. 22

PLAN	DATE	BY	CHECKED
NO.			
NO.			
NO.			

LEGEND
- CEDAR VALLEY CO-OP
- T-N.W.BELL TEL.CO.
- T-FARMERS MUTUAL TEL.CO.

PROFILE	DATE	BY	CHECKED
NO.			
NO.			
NO.			



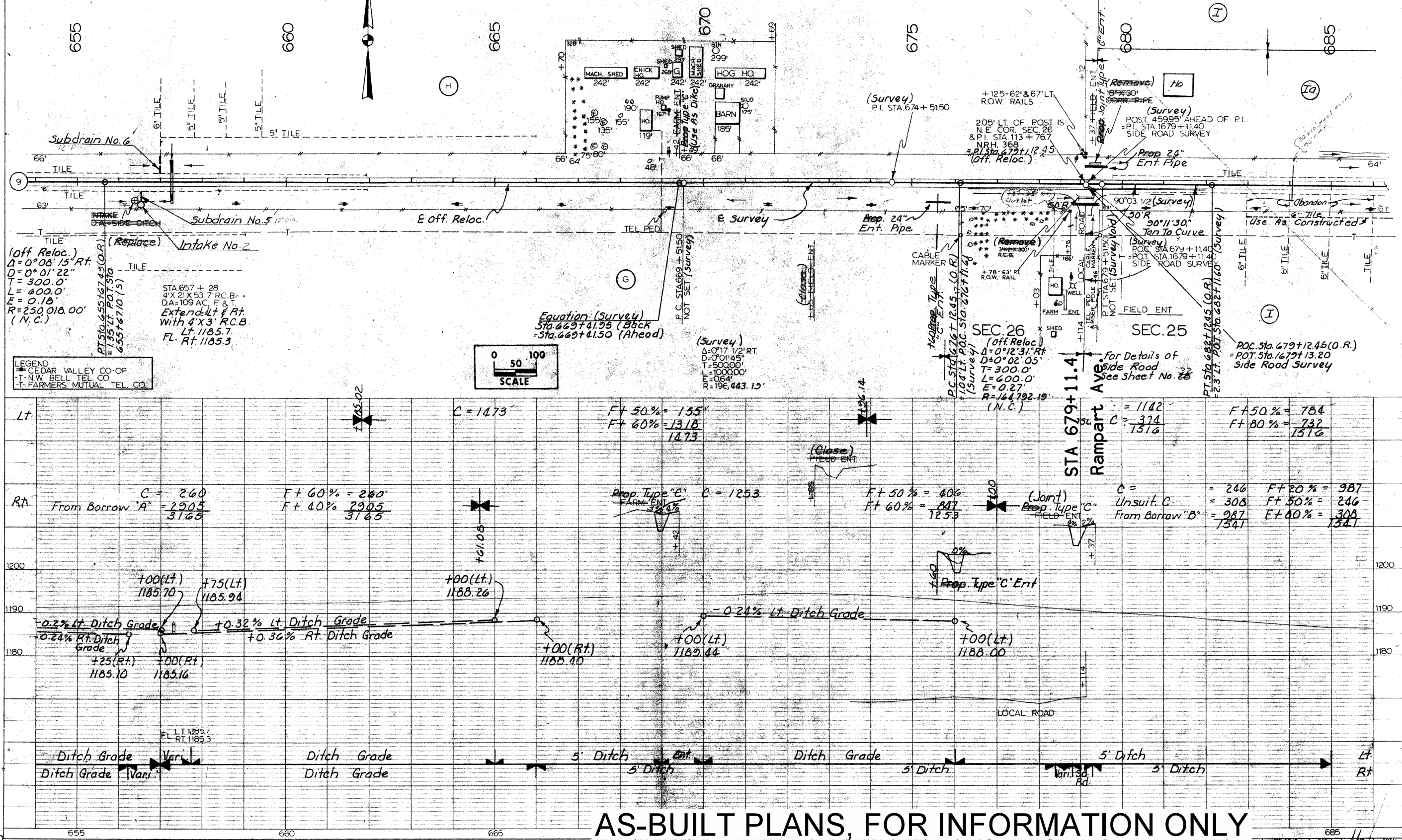
PROPERTY OWNERS
G. Harold F. Erna Schulties
H. HOWARD F. Mavis Wieland
Lorraine A. Klages
Erna Schulties

U.A.C. Existing R.O.W. From
Sta. 655+00 To Sta. 685+00
Both Sides

BURR OAK TWP
T98N R16W
SEC. 23 SEC. 24

PLAN	DATE	BY
PLANNED		
DESIGNED		
CHECKED		
NOTED		

PROFILE	DATE	BY
PLANNED		
DESIGNED		
CHECKED		
NOTED		



AS-BUILT PLANS, FOR INFORMATION ONLY

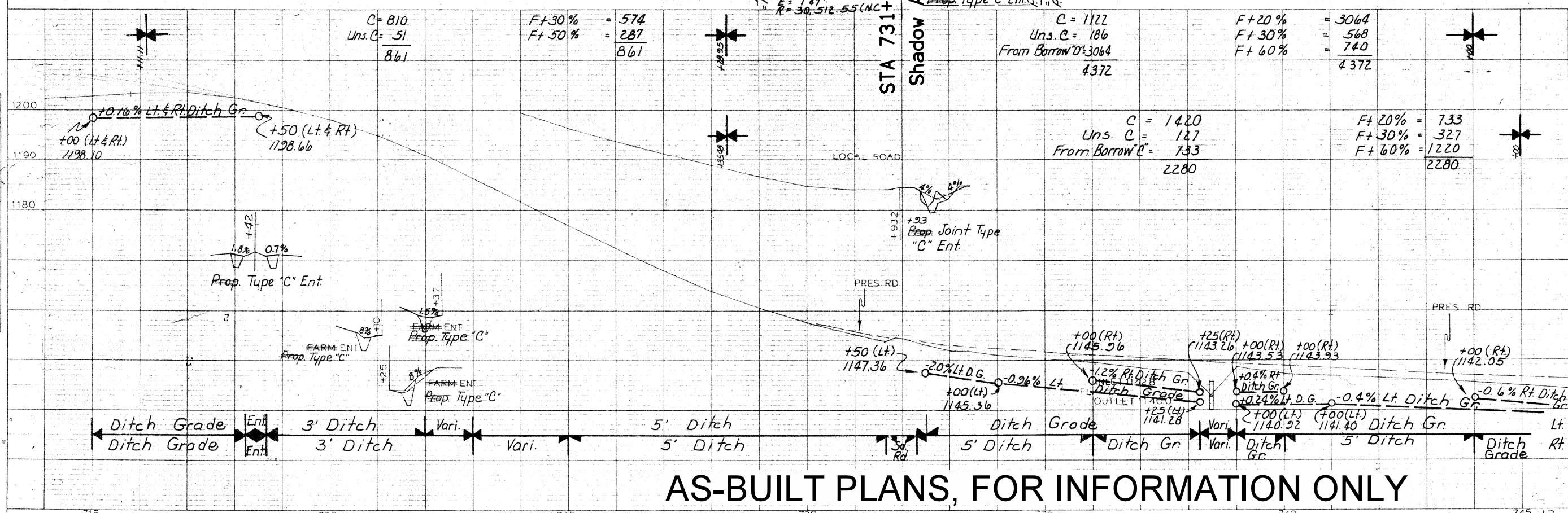
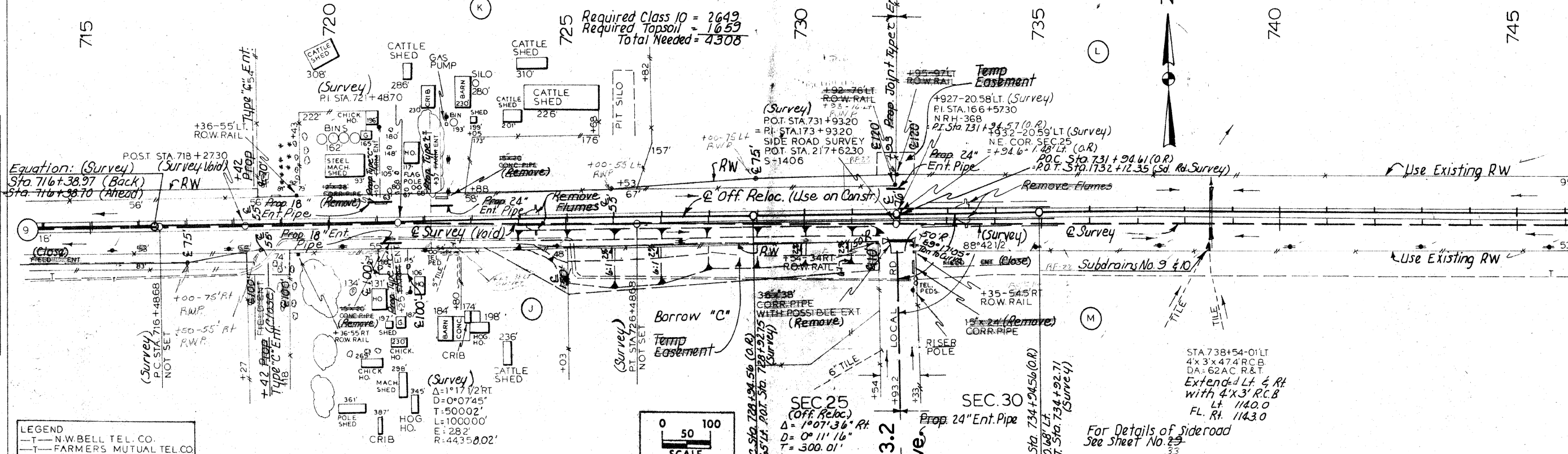
PROPERTY OWNERS:
J-HERBERT MICHEL'S
K-HAROLD SULLIVAN
L-Laverne & Susan Peimers
M-Stanley Brandon & Eugene Wittenstrom

Borrow Area C = 1.028 Acres
Construction Limits
Total Class 10 Avail. = 3518
Total Topsoil Material = 1659
Total Avail = 5177

BURR OAK TWP.
T98N R16W
SEC.24

DOUGLAS TWP.
T98N R15W
SEC.19

Required Class 10 = 2649
Required Topsoil = 1659
Total Needed = 4308



AS-BUILT PLANS, FOR INFORMATION ONLY

PROJECT: CROWN RD
Laverne F. Susan Reimers
M. Stanley Brandon & Eugene Wittenstrom
N. Stanley D. & Barbara K. Brandon
O. Maria A. & Counsell
P. Nadine K. Mork
R. Robert & Vivian Mork
R. Gerald & Zella Francis

Note:
On Parcel Q it was agreed that
3 (Three) Ash trees on ROW Line will
not be removed and Locust Tree 90
North of Sta. 754+43.1 shall also be
saved.

DOUGLAS TWP
T98N R15W
SEC. 19

(Survey)
Δ 90°40'33" LT.
Δ 81°40'30"
Δ 300'
Δ 2084.45'
Δ 80993'
Δ 14997'
Δ 29982'
Δ 7.85'
Δ 20007'
Δ 10008'
Δ 29992'

Borrow "D"
For Details
See Sheet No. 44

P.O.C. Sta. 770+92.89 (O.R.)
P.I. Sta. 771+19.00 (O.R.)

(Office Relocation)
Δ 90°46'18" Lt.
Δ 81°46'10" Lt.
Δ 4°30'
Δ 300.00'
Δ 2087.72'
Δ 812.26'
Δ 190'
Δ 149.97'
Δ 299.82'
Δ 7.85'
Δ 200.07'
Δ 100.00'
Δ 299.92'

P.O.C. Sta. 771+00.00
P.I. Sta. 771+00.00
SIDE ROAD SURVEY

(Survey)
P.O.C. Sta. 771+00.00
P.I. Sta. 771+00.00
SIDE ROAD SURVEY

For Details of Side Road
See Sheet No. 33

STA 768+00
DA: SIDE DITCH

For Details of Side Road
See Sheet No. 33

For Details of Side Road
See Sheet No. 33

For Details of Side Road
See Sheet No. 33

For Details of Side Road
See Sheet No. 33

For Details of Side Road
See Sheet No. 33

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See Sheet No. 33

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See Sheet No. 33

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See Sheet No. 33

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See Sheet No. 33

For Details of Side Road
See Sheet No. 33

For Details of Side Road
See Sheet No. 33

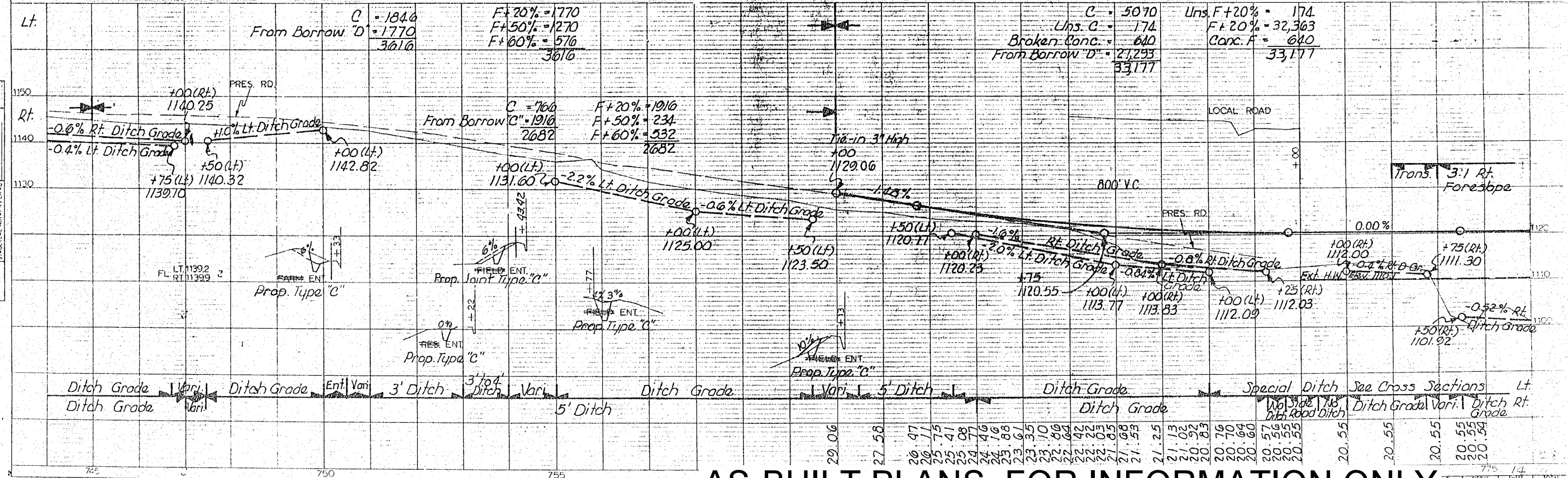
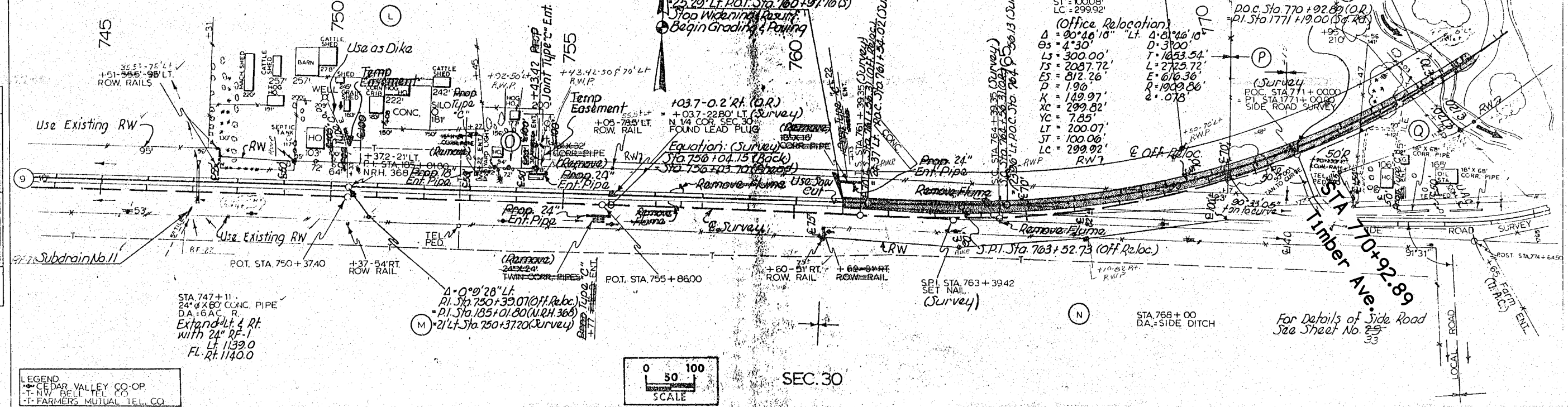
For Details of Side Road
See Sheet No. 33

For Details of Side Road
See Sheet No. 33

For Details of Side Road
See Sheet No. 33

For Details of Side Road
See Sheet No. 33

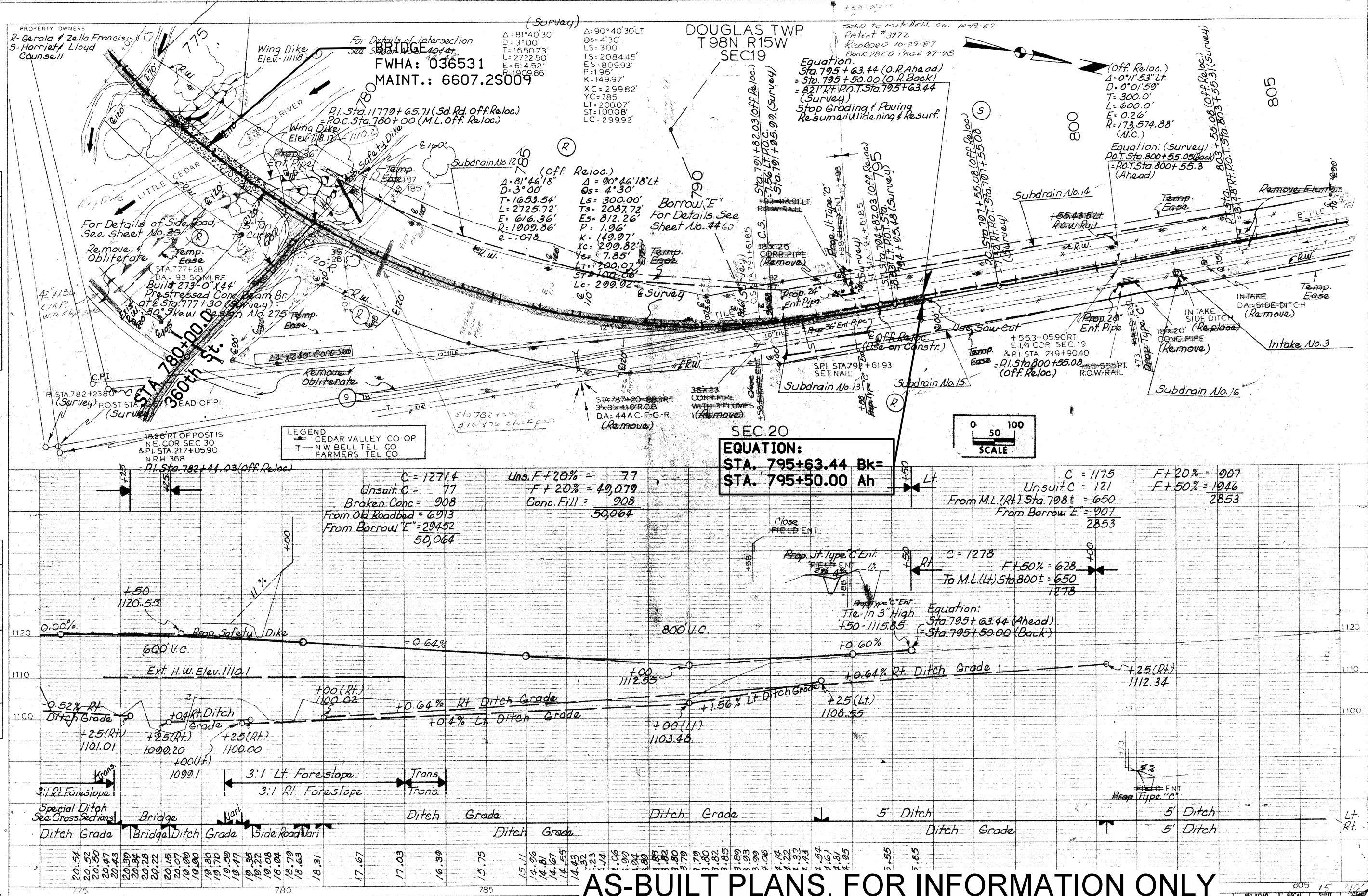
For Details of Side Road
See Sheet No. 33



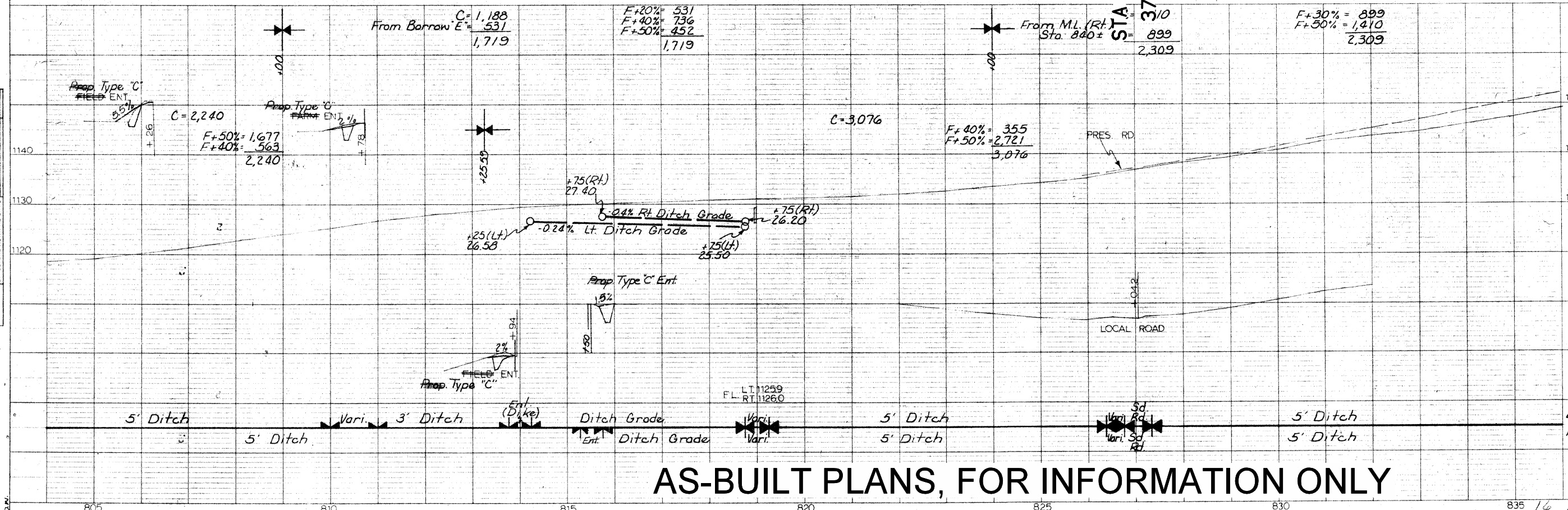
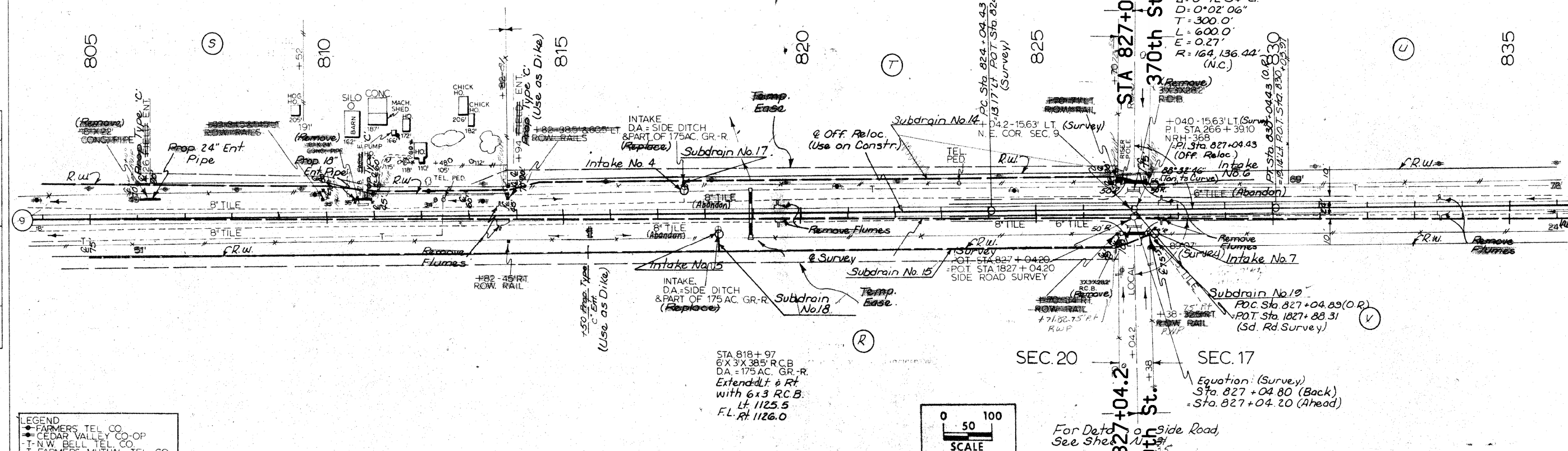
AS-BUILT PLANS, FOR INFORMATION ONLY

PLAN	DATE	BY
NOTE BOOK	SURVEYED	ACCOUNT CHECKED
	NO.	RT. OF WAY CHECKED

PROFILE	DATE	BY
NOTE BOOK	SURVEYED	STRUCTURE NOTATIONS CHKD
	NO.	



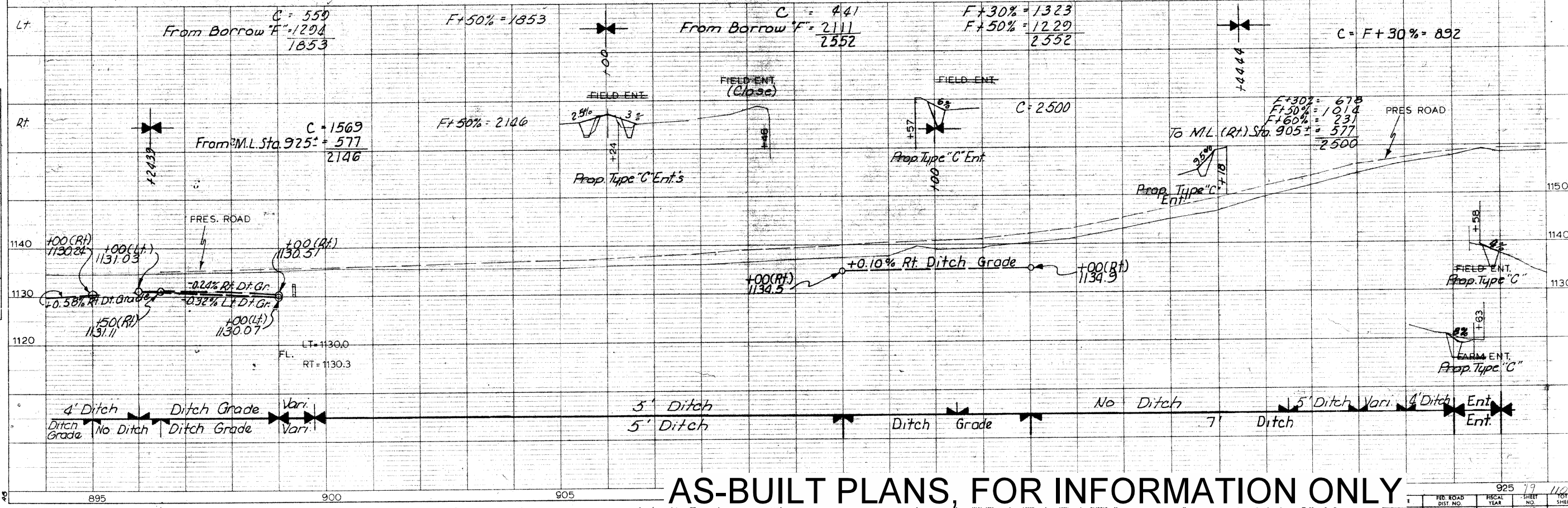
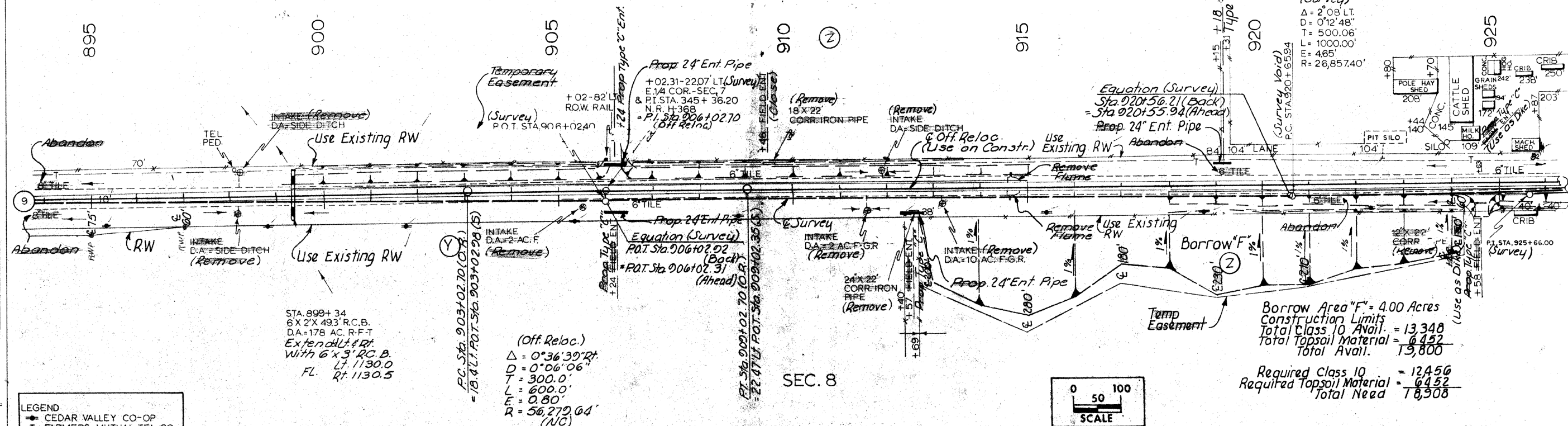
538



AS-BUILT PLANS, FOR INFORMATION ONLY

PROPERTY OWNERS
Y - Donald & Marilyn Helfter
Z - William & Vernie Turnmire

DOUGLAS TWP.
T 98N R15W
SEC. 7



AS-BUILT PLANS, FOR INFORMATION ONLY

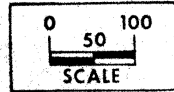
Mitchell Co.

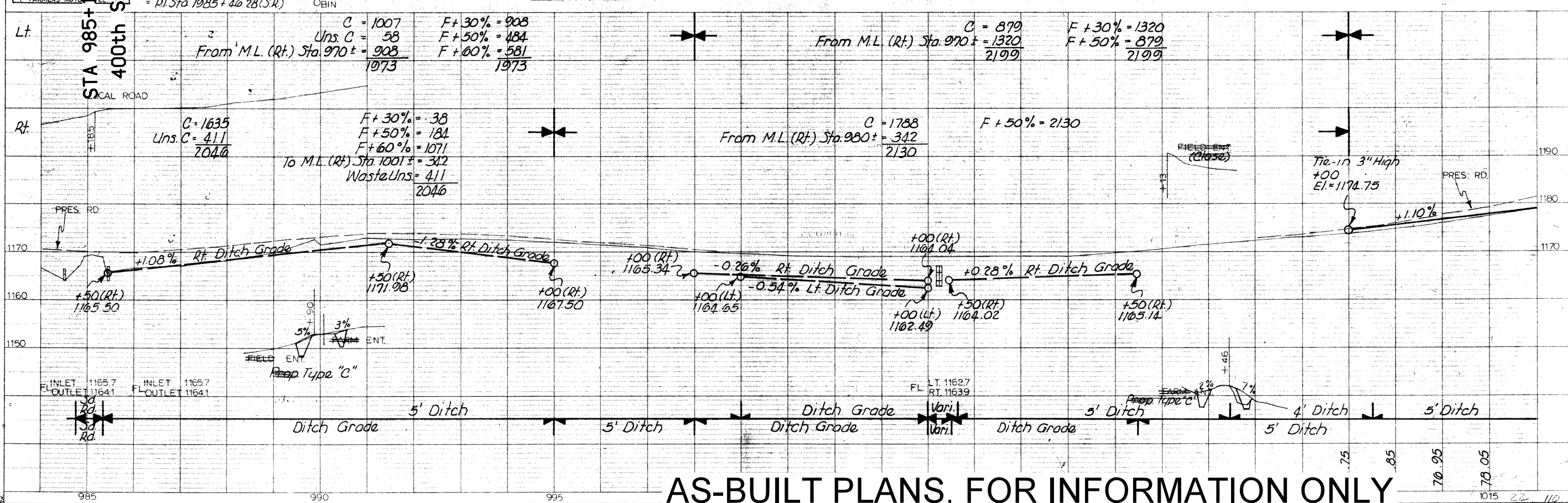
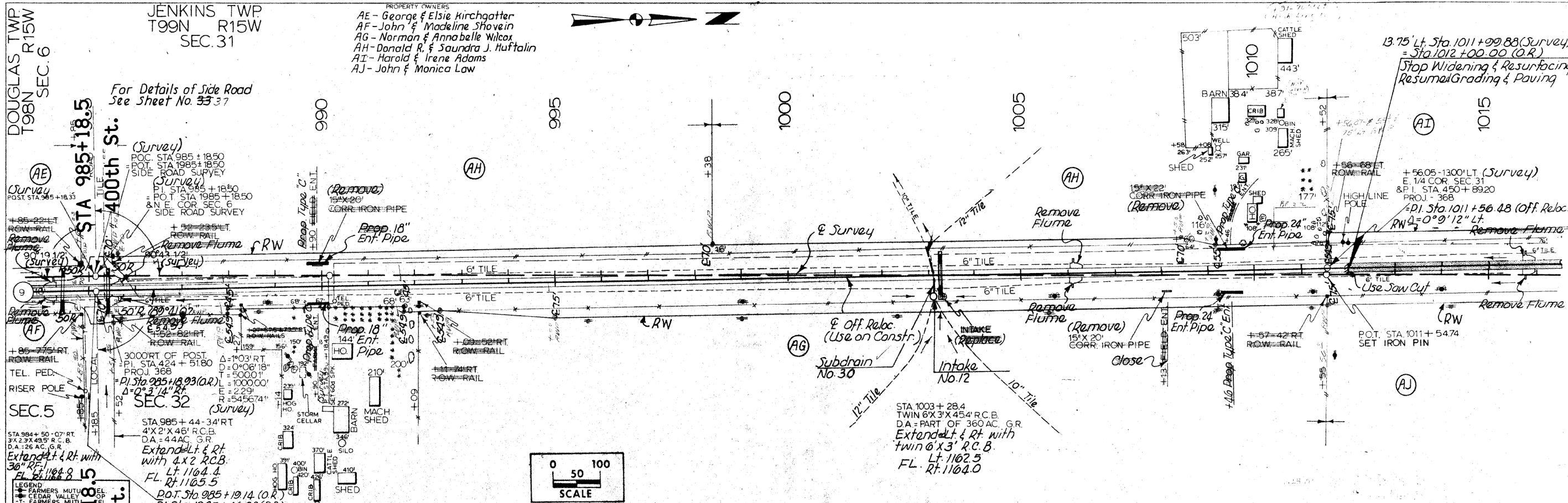
F - 9 - 6(7) -- 20-66

925 79 116

AC - Frank & Anno Morley
AE - George & Elsie Kirchgatter
AF - John & Madeline Shovein
AG - Norman & Ankobelle Wilcox

For Details of
Sd. Rd. See
Sheet No. ~~33~~
37





AS-BUILT PLANS, FOR INFORMATION ONLY

STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	PROJECT NUMBER	STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA	5	20	166	110	E-09-6(7)-20-166	IOWA	5	20	166	110

PROPERTY OWNERS
AI - Harold & Irene Adams
AJ - John & Monica Law
AK - State of Iowa

JENKINS TWP.
T 99N R 15W

PI = 56.15' Lt of P.O.S.T.
= 693.79' Lt. P.O.C. Sta. 1034 + 42.11
(Survey)
= P.I. Sta. 1038 + 04.07 (Off. Re.loc.)

6324' Lt. of P.O.S.T.
= P.I. Sta. 477 + 36.30 - S
PROJ 368

PI STA 1038 + 57.40 (Survey)
POST STA 1038 + 0319 (Survey)

SEC. 29

1045

1040

SEC. 31

SEC. 32

SEC. 32

LEGEND:
FARMERS MUTUAL TEL. CO.
CEDAR VALLEY CO-OP
FARMERS MUTUAL TEL. CO.

Equation: (Survey)
Sta. 1020 + 27.28 (Back)
Sta. 1020 + 27.31 (Ahead)

(Survey)
Δ = 90° 10' 30"
OS = 6.125'
LS = 350'
TS = 1820.10'
ES = 686.04'
P = 312'
K = 17493'
XC = 349.60'
YC = 12.46'
LT = 233.48'
ST = 116.80'
LC = 349.82'

(Survey)
Δ = 77° 55' 30"
OS = 3' 30"
T = 1323.86'
L = 2226.43'
E = 468.31'
R = 1637.03'

0 50 100
SCALE

C = 10712
Unsuit. C = 5966
Broken Conc. = 574
17252

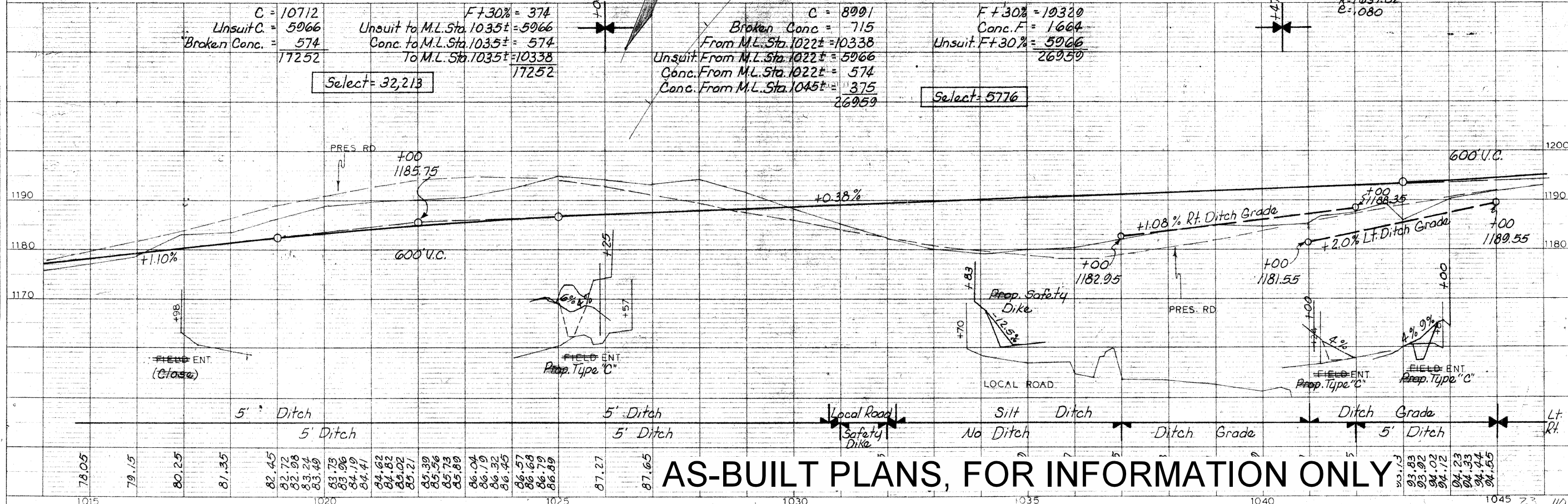
F + 30% = 374
Unsuit. to M.L. Sta. 1035 ± = 5966
Conc. to M.L. Sta. 1035 ± = 574
To M.L. Sta. 1035 ± = 10338
17252

Select = 32,213

C = 8991
Broken Conc. = 715
From M.L. Sta. 1022 ± = 10338
Unsuit. From M.L. Sta. 1022 ± = 5966
Conc. From M.L. Sta. 1022 ± = 574
Conc. From M.L. Sta. 1045 ± = 375
26959

F + 30% = 10320
Conc. F = 1664
Unsuit. F + 30% = 5966
26959

Select = 5776



AS-BUILT PLANS, FOR INFORMATION ONLY

MITCHELL CO.

PROJECT NUMBER

MITCHELL COUNTY

STATE

FED. ROAD DIST. NO.

FISCAL YEAR

SHEET NO.

TOTAL SHEETS

PROJECT NUMBER

FISCAL YEAR

SHEET NO.

TOTAL SHEETS

FILE NO.

ENGLISH

DESIGN TEAM **ROLANDO \ NIE**

MITCHELL COUNTY

PROJECT NUMBER **STP-009-6(086)--2C-66**

SHEET NUMBER **D.17**

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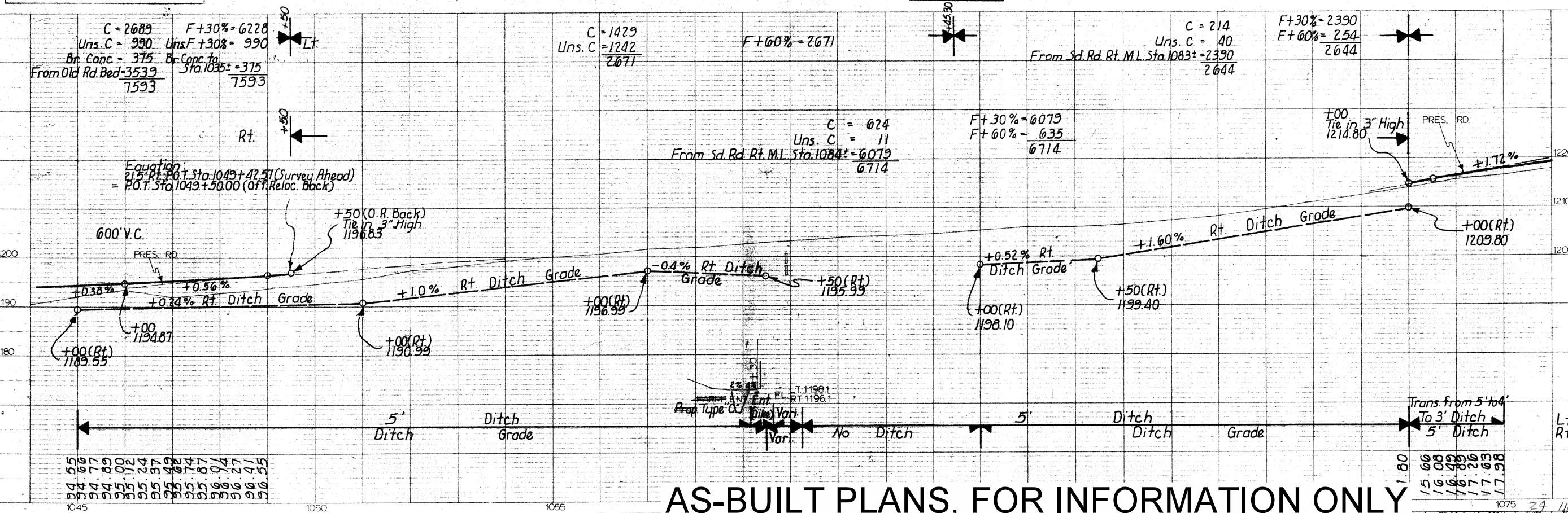
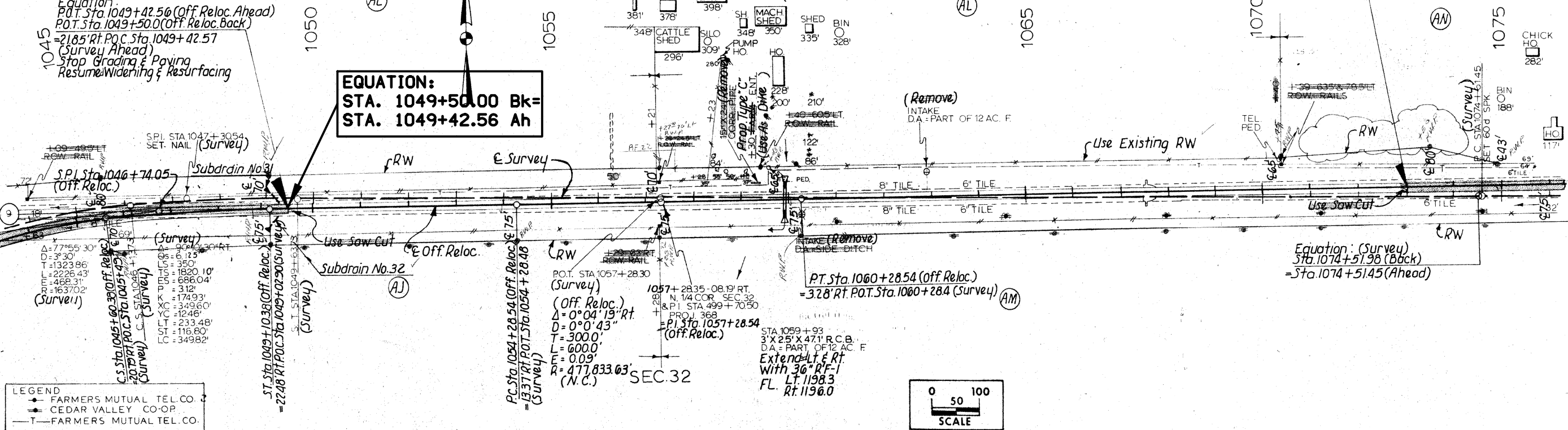
PROPERTY OWNERS
AJ - John & Marica Law
AL - John & Catherine Moss
AM - Eugene & Hattie Feather
AN - William & Ruth Dynes

JENKINS TWP
T99N R15W
SEC. 29

Sta 1073+00.00 (Off Reloc.)
= 173' Lt. Sta. 1072+29.97 (Survey)
Stop Widening & Resurfacing
Resume Grading & Paving

Equation:
P.O.T. Sta. 1049+42.56 (Off Reloc. Ahead)
P.O.T. Sta. 1049+50.00 (Off Reloc. Back)
= 218.5' Rt. P.O.C. Sta. 1049+42.57
(Survey Ahead)
Stop Grading & Paving
Resume Widening & Resurfacing

EQUATION:
STA. 1049+50.00 Bk=
STA. 1049+42.56 Ah



AS-BUILT PLANS, FOR INFORMATION ONLY

MITCHELL CO.

STATE IOWA

DIST. NO. 5

YEAR NO. SHEETS

PROJECT NUMBER F-9-6(7)-20-66

STATE IOWA

FED. ROAD DIST. NO. 5

FISCAL YEAR

SHEET NO. 29

TOTAL SHEETS 30

FILE NO.

ENGLISH

DESIGN TEAM ROLANDO \ NIE

MITCHELL COUNTY

PROJECT NUMBER STP-009-6(086)--2C-66

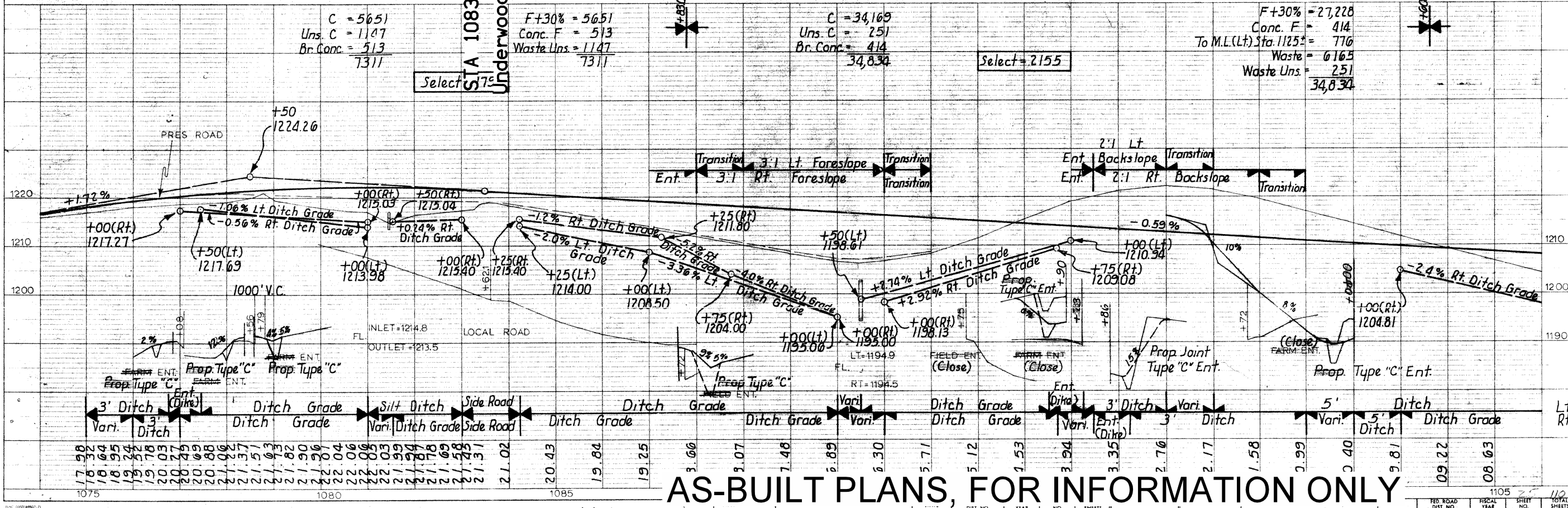
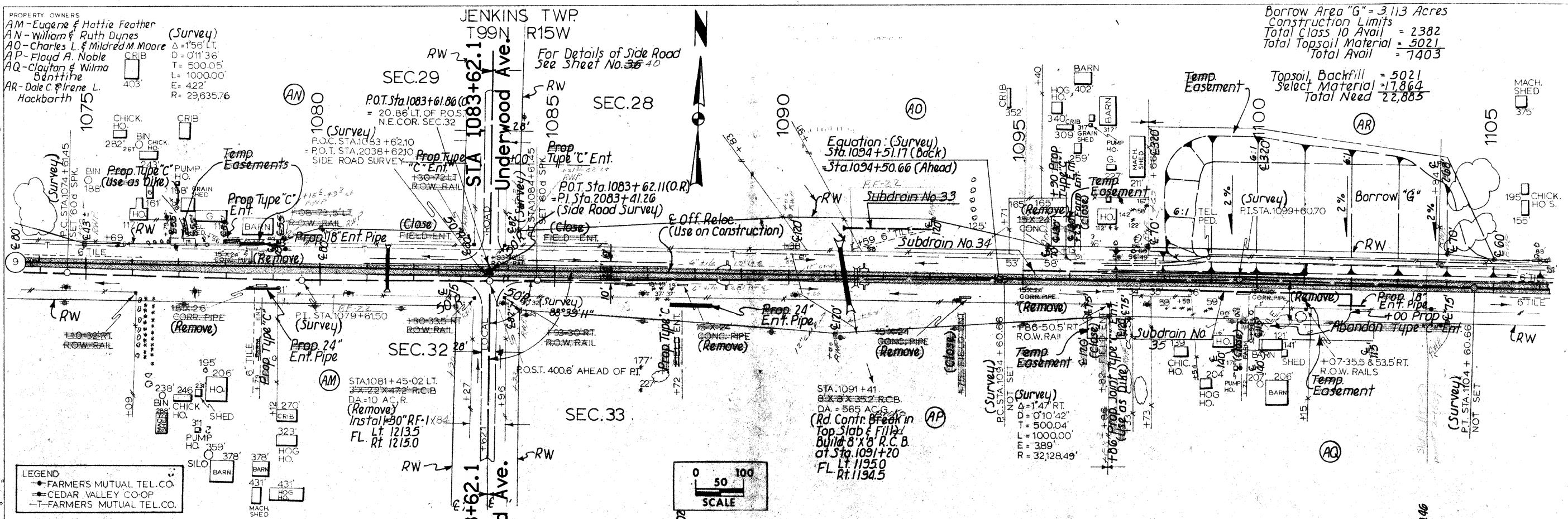
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9/4/2025

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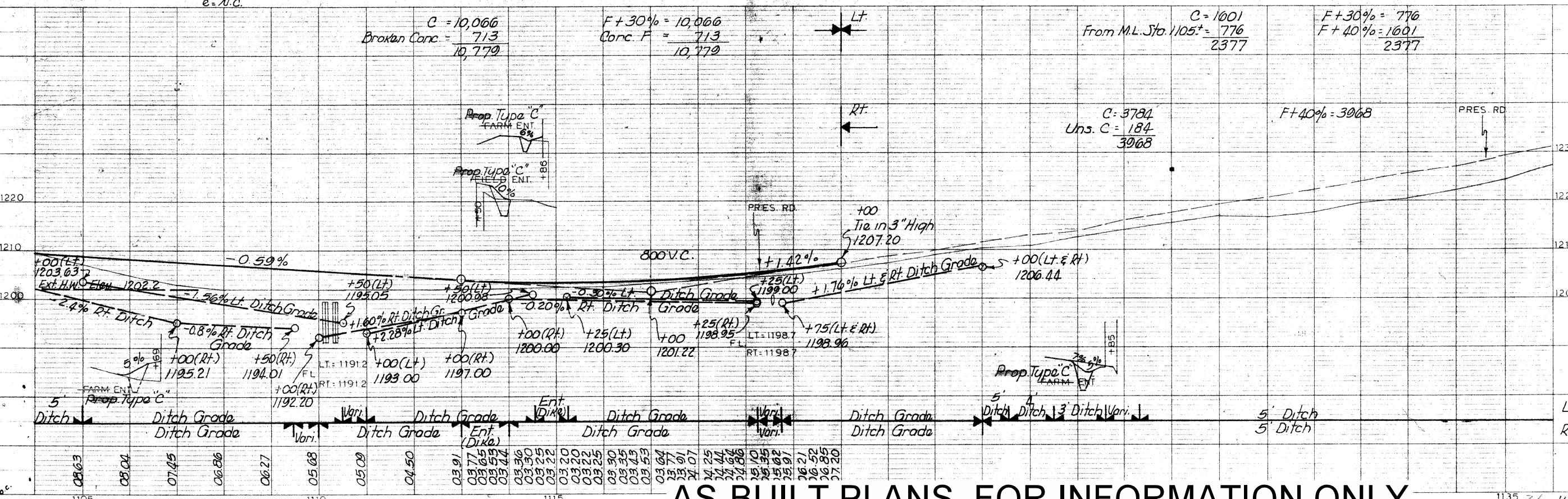
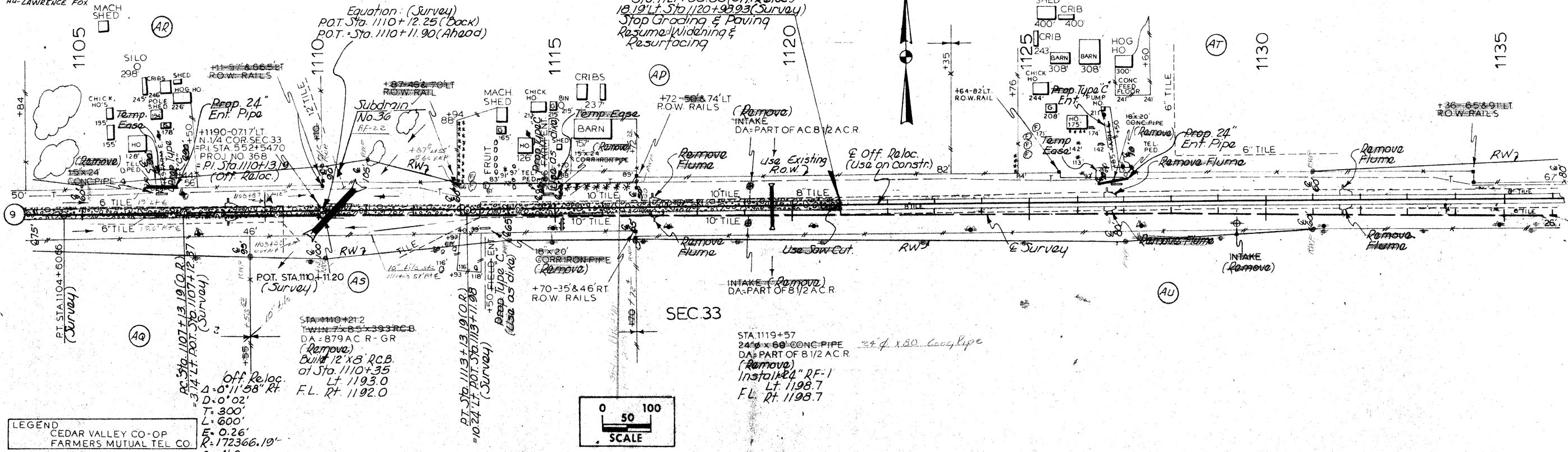


AS-BUILT PLANS, FOR INFORMATION ONLY

PROPERTY OWNERS
AP- FLOYD A. NOBLE
AQ- CLAYTON & WILMA BENTTINE
AR- DALE C. & IRENE L. HACKBARTH
AT- CLIFFORD PEARCE
AS- FRED J. & MARILYN R. KORTE
AU- LAWRENCE FOX

JENKINS TWP.
T99N R15W
SEC28

Sta. 1121+00.00 (Off. Raloc.)
18.19' Lt. Sta. 1120+93.93 (Survey)
Stop Grading & Paving
Resume Widening &
Resurfacing



AS-BUILT PLANS, FOR INFORMATION ONLY

PROPERTY OWNERS:
AZ - Loyd & Geraldine Foster
BA - Margaret Conger
BB - Ward & Kenneth Kephart

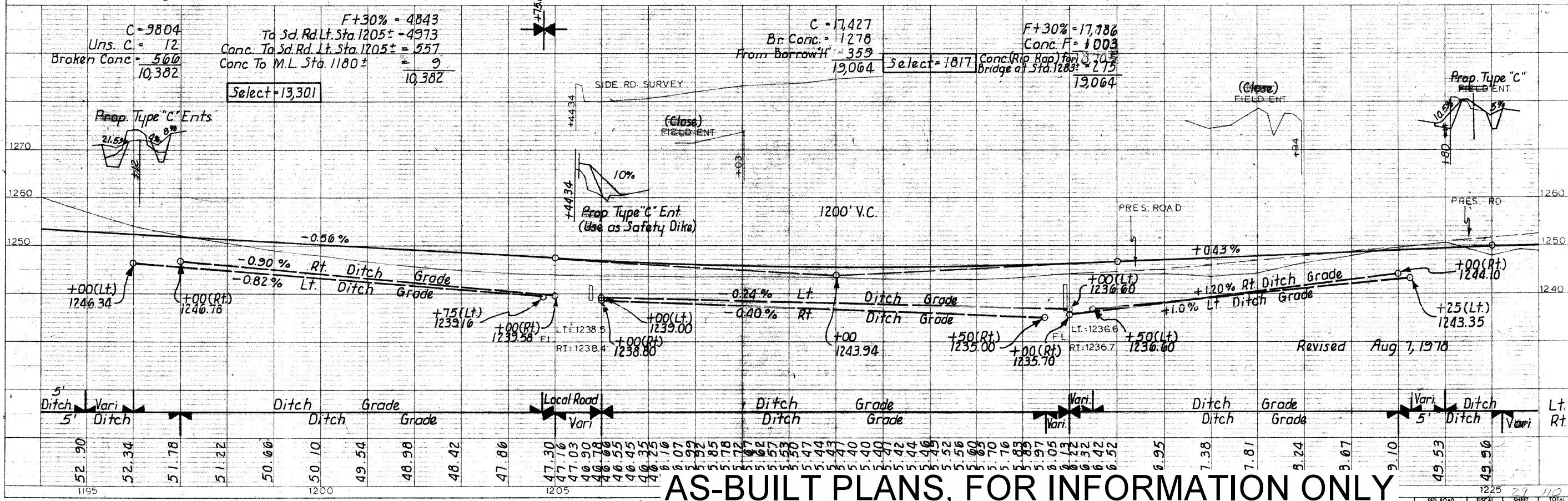
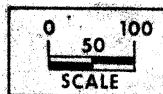
For Details of Intersection
See Sheets No. 42 & 43

JENKINS TWP.
T 99N R 15W
SEC. 26

PLAN	DATE	BY	DATE
SURVEYED			
ALIGNED			
CHECKED			
RT. OF WAY			
NO.			

PROFILE	DATE	BY	DATE
SURVEYED			
GRADES CHECKED			
MADE			
STRUCTURE NOTATIONS CHKD			
NO.			

LEGEND
NWBELL TEL. CO.
CEDAR VALLEY COOP.
FARMERS MUTUAL TEL. CO.



AS-BUILT PLANS, FOR INFORMATION ONLY

PROPERTY OWNERS
 A2 - LLOYD & Geraldine Foster
 B4 - Margaret Canger
 BB - Ward & Kenneth Kephart
 BC - Lowell & Ruth Bengten
 BD - Harold & Margaret Evans
 BE - Lee & Gary Breitspacher
 BF - Gary & Jeanne Watts

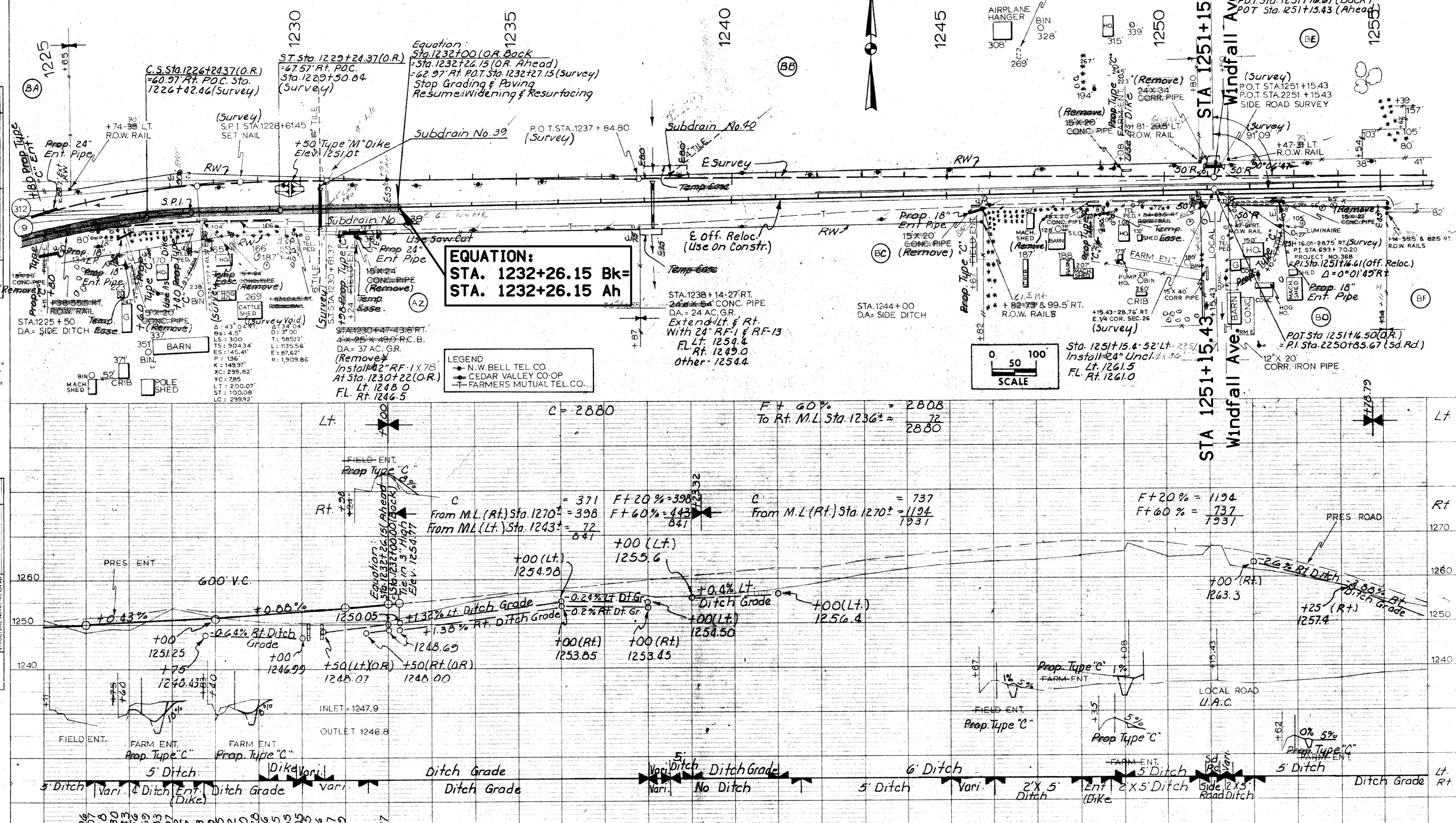
JENKINS TWP
 T99N R15W

SEC. 26

SEC. 25

PLAN	DATE	BY
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AS-BUILT PLANS, FOR INFORMATION ONLY

111_01
10/14/22

COORDINATED OPERATIONS

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.

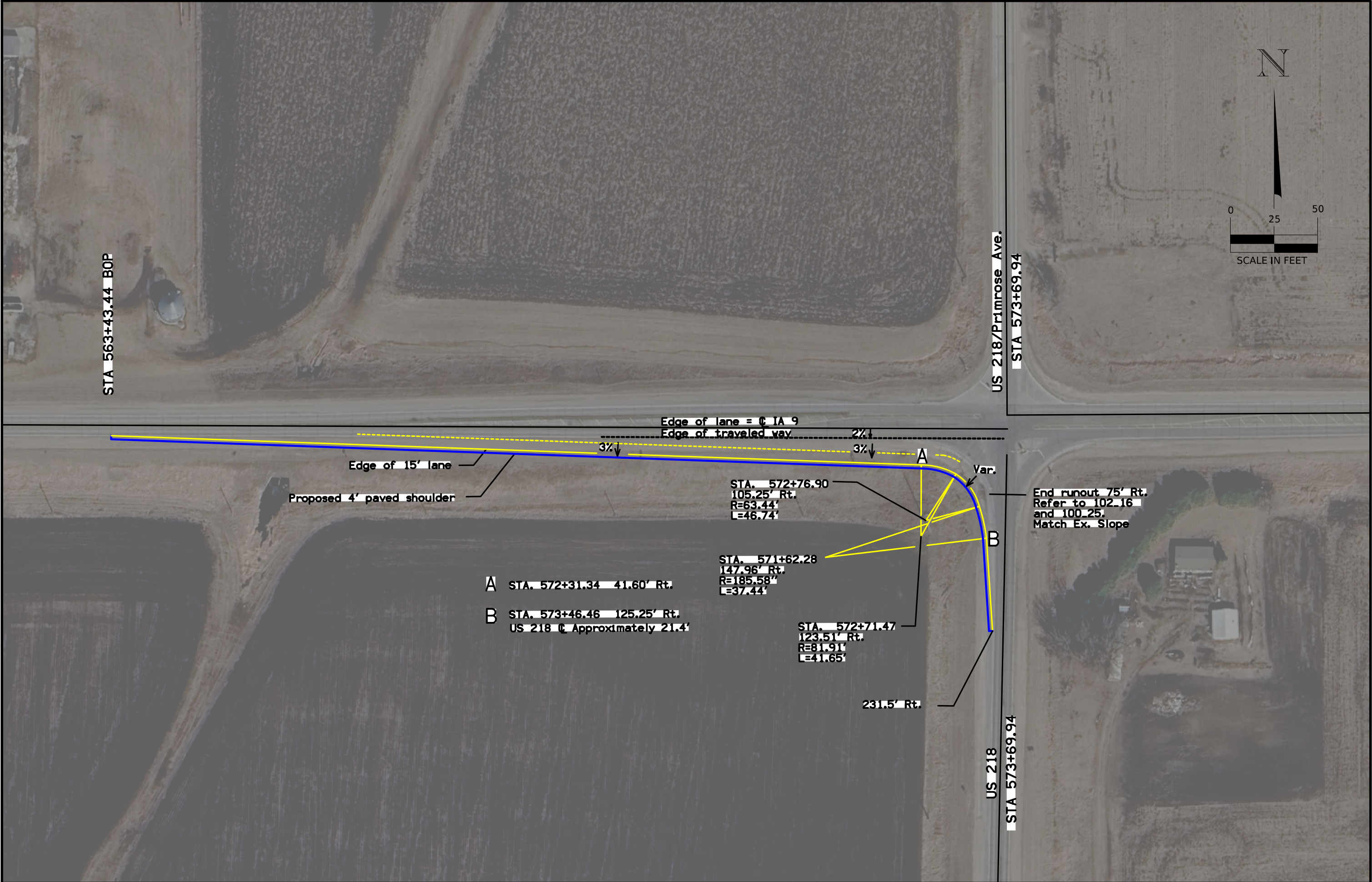
Project	Type of Work
To be discussed at precon.	

108_23A
8/15/22

TRAFFIC CONTROL PLAN

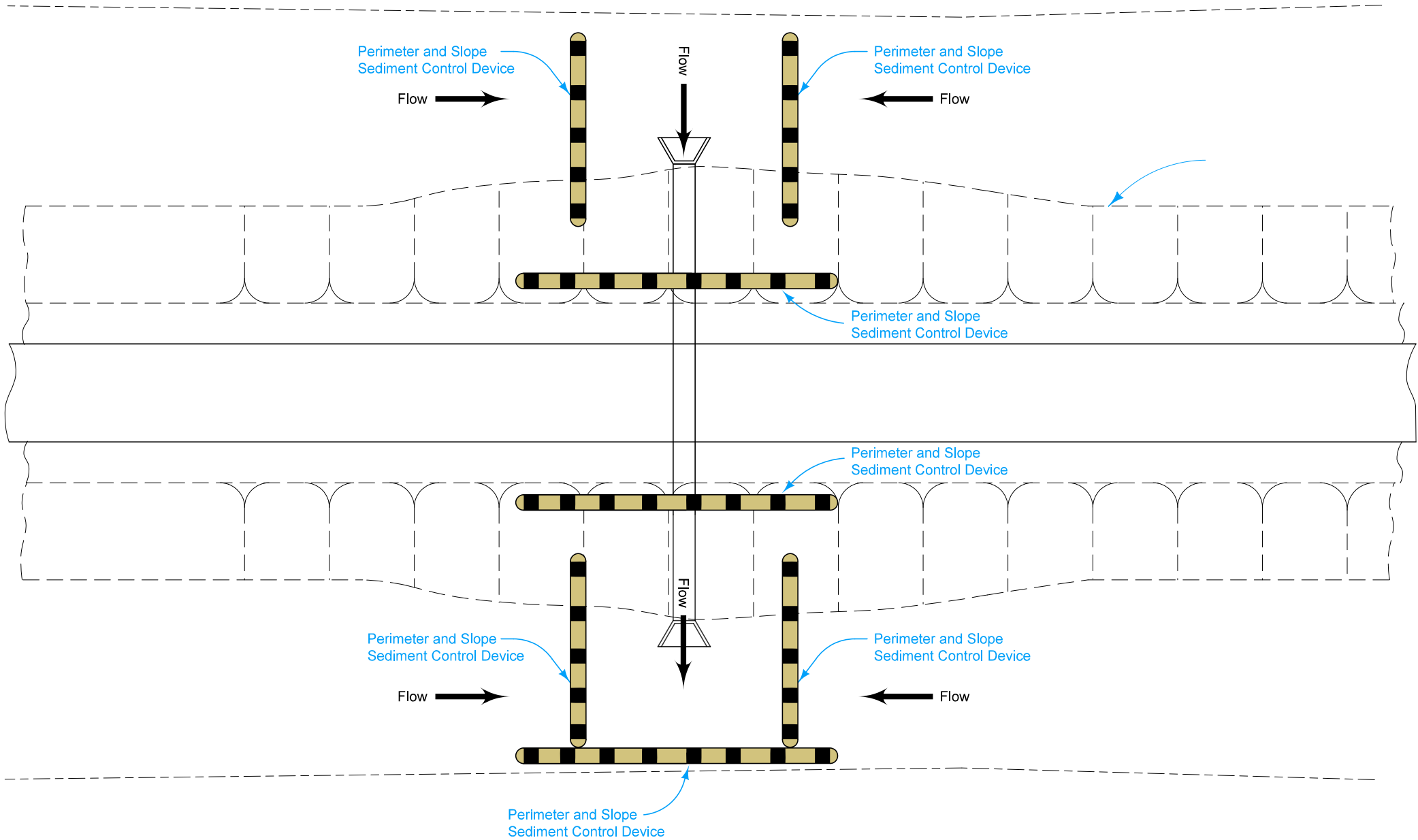
Through traffic shall be maintained at all times.

511 TRAVEL RESTRICTIONS											108_25 3/28/24
Line No.	Route	Direction	County	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks	
1.0	IA 9	Both	Mitchell		None					No travel restrictions anticipated	
2.0	US 218	Both	Mitchell		None					No travel restrictions anticipated	

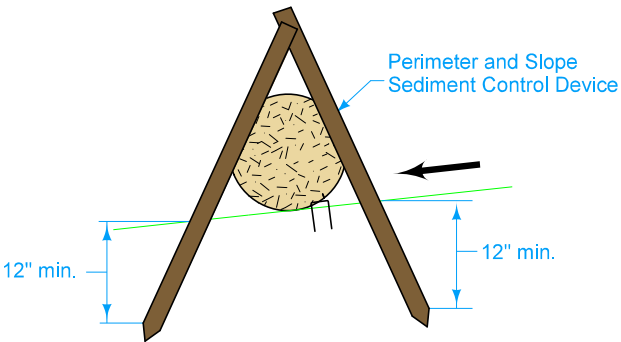


See Standard Road Plans EC-201 and EC-204 for installation details.

① Silt Fence for Ditch Check may be substituted at no additional cost to the Contracting Authority.



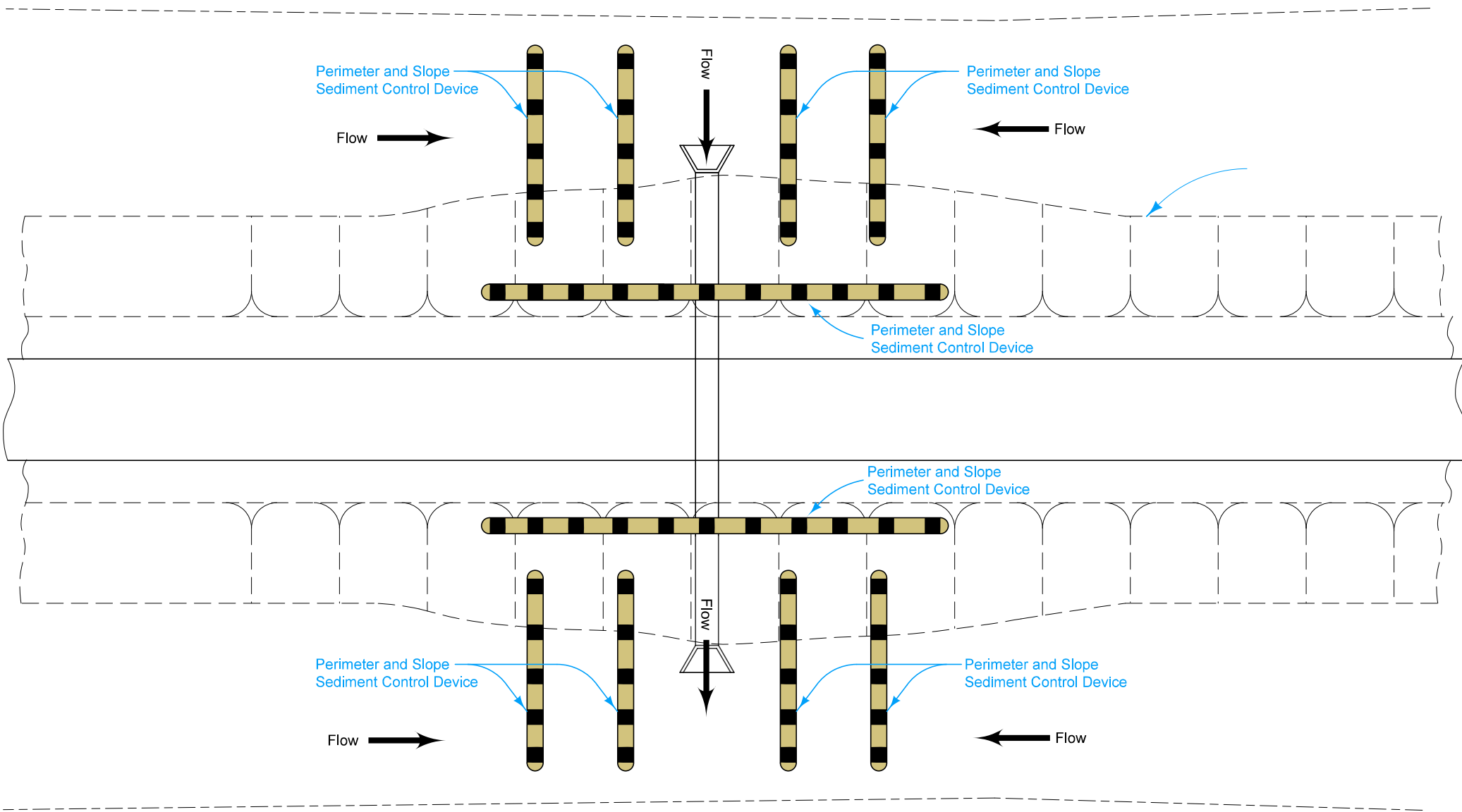
NON-CONTINUOUS FLOW CULVERT



Possible Contract Items:
Perimeter and Slope Sediment Control Device

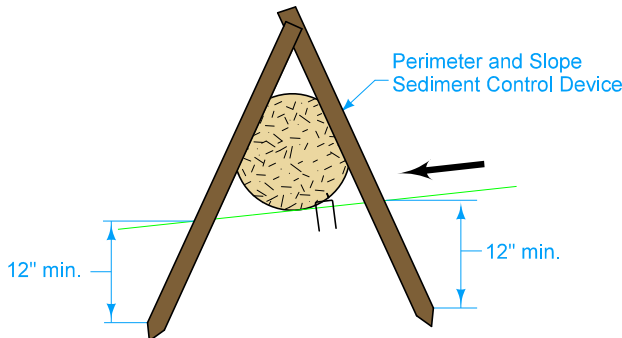
Possible Tabulations:
100-19
100-34

	REVISION	
	1	10-19-21
	570-12	
ROAD DESIGN DETAIL	SHEET 1 of 2	
Added cross section for staking details.		
TEMPORARY SEDIMENT CONTROL FOR SHOULDER WIDENING WITH EXPOSED SOIL		

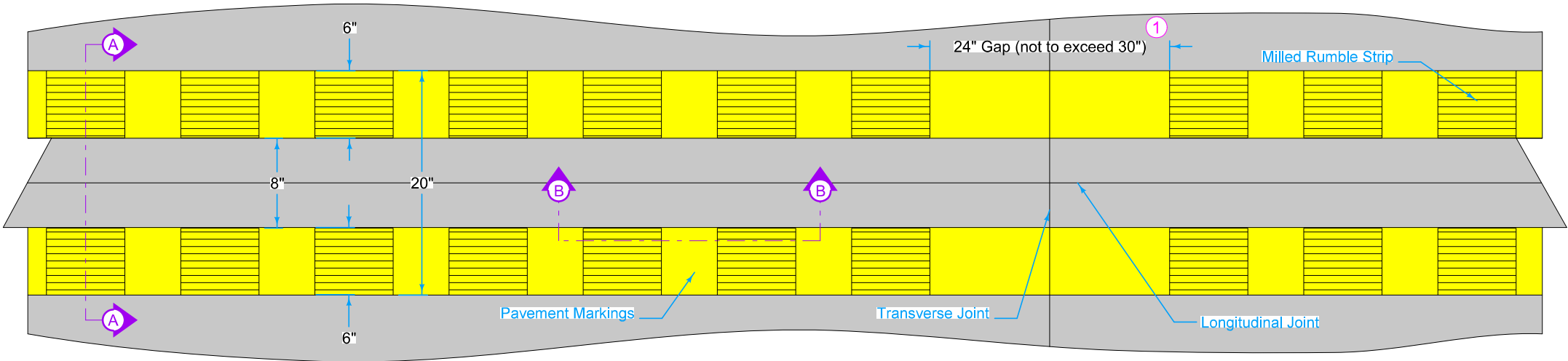


① Silt Fence for Ditch Check may be substituted at no additional cost to the Contracting Authority.

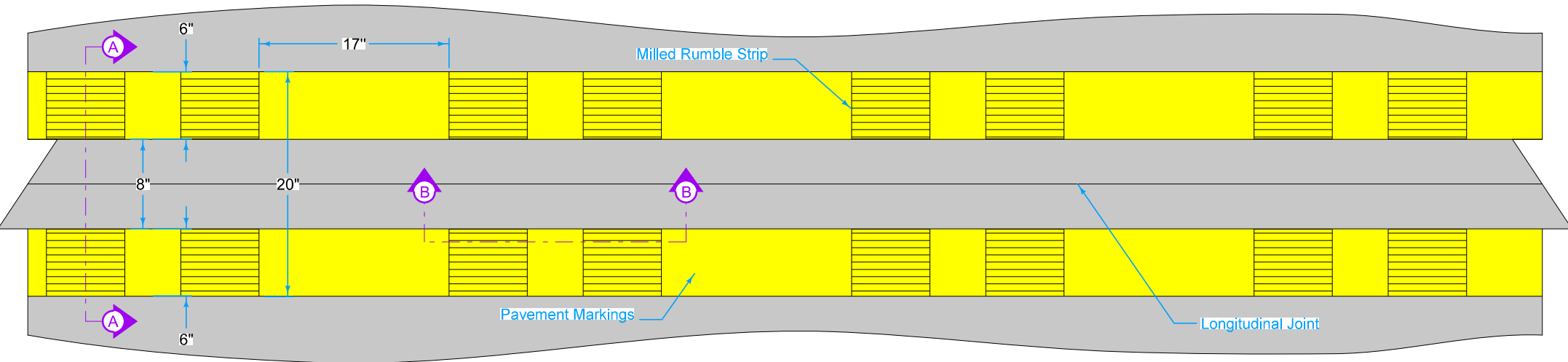
CONTINUOUS FLOW CULVERT



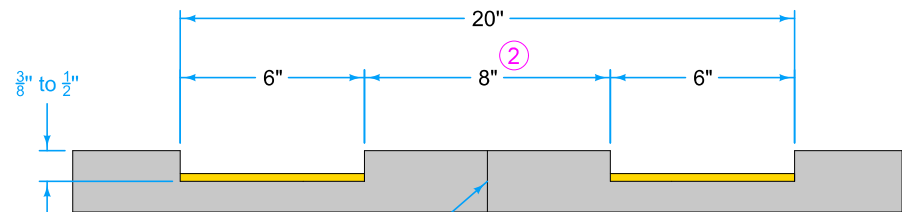
	REVISION	
	1	10-19-21
	570-12	
ROAD DESIGN DETAIL	SHEET 2 of 2	
Added cross section for staking details.		
TEMPORARY SEDIMENT CONTROL FOR SHOULDER WIDENING WITH EXPOSED SOIL		



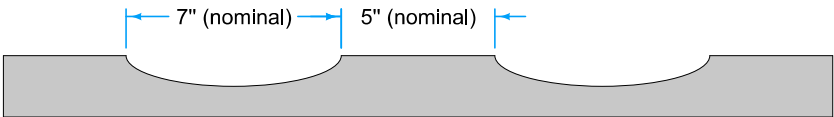
PLAN (PCC)



PLAN (HMA)



SECTION A-A



SECTION B-B

- Centerline rumble strip placement is the same regardless of centerline pavement marking.
- ① Gap rumble strips at PCC transverse joints. Centering the gap about the joint is desirable. Maintain a minimum of 3 inches between rumble and transverse joint.
 - ② Center 8 inch gap over longitudinal joint.

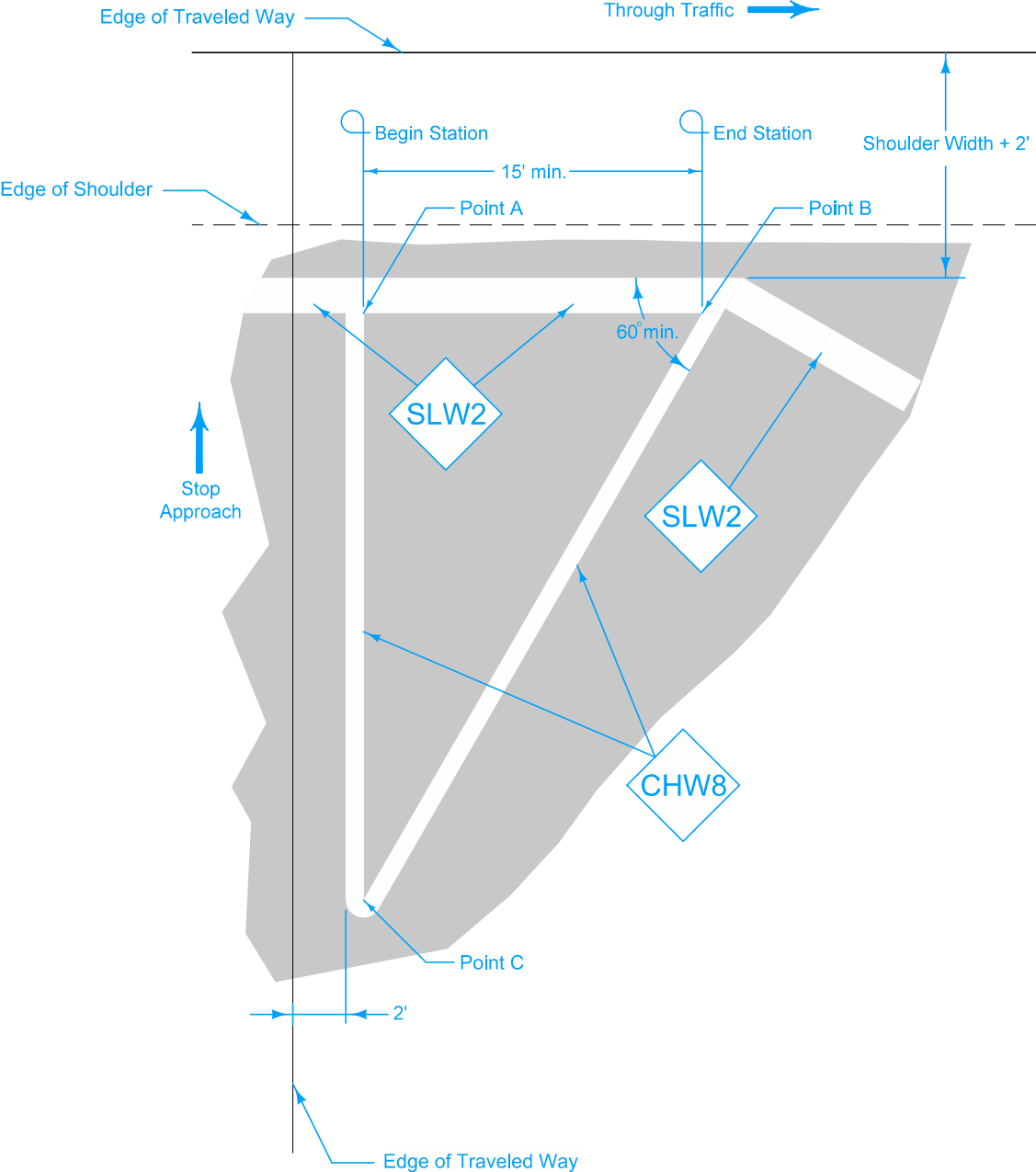
Possible Contract Items:
Milled Centerline Rumble Strips, HMA Surface
Milled Centerline Rumble Strips, PCC Surface

Possible Tabulation:
112-10

MODIFIED	
STANDARD ROAD PLAN	PV-13
SHEET 1 of 4	
MODIFICATIONS: Updated to reflect usage of 6" Centerline markings.	
MILLED CENTERLINE RUMBLE STRIPS	

For pavement marking line types, see [PM-110](#).

For stop line information, see [PM-120](#).



Possible Contract Item:
Pavement Marking Line Items

Possible Tabulations:
[101-10](#)
[108-22](#)

	REVISION	
	1	10-19-21
	560-5	
ROAD DESIGN DETAIL	SHEET 1 of 1	
REVISIONS: Changed yield line to stop line.		
PAINTED ISLANDS		

Note: Elev. assumed at centerline for each individual sta.
1" = 10'

IA 9 near US 218

