LETTING DATE 2/20/2024

Patching with diamond grinding
NHSX-003-7(049)--3H-33

FAYETTE COUNTY

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	**Typical Cross Sections and Details**
B.1	Typical Cross Sections and Details
C Sheets	**Quantities and General Information**
C.3	Project Description
C.1 - 2	Estimated Project Quantities and Reference Notes
C.3	Standard Road Plans
C.3	Index of Tabulations
C.3	General Notes
C.3 - 8	Tabulations
D Sheets	**Mainline Plan and Profile Sheets**
D.1 - 9	Plan & Profile Legend & Symbol Information Sheet
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
J.1	Staging Notes Stage
U Sheets	**500 Series, Mod.Stds. and Detail Sheets**
* U.1	500 Series, Modified Standards and Detail Sheets
	* Color Plan Sheets

IOWA DOT

REVISIONS

TOTAL
..
PROJECT IDENTIFICATION NUMBER
23-33-003-010
PROJECT NUMBER
NHSX-003-7(049)--3H-33
R.O.W. PROJECT NUMBER
-
-
-

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

FAYETTE COUNTY

~~Patching with diamond grinding~~ Pavement Planing/Grooving

In Oelwein
from NCL to 9th Ave SE
-

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

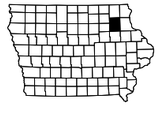
IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

Gabe Zittergruen, maintenance
Ashton Johnson, deisgn
Mary Kelly, design
Ron Loecher, construction
Tracy Meise, design
Herb Doudney, Public Works Director
Josh Loban, Public Works Lead

MILEAGE SUMMARY

105-1
09-27-94

Div.	Location	Lin. Ft.	Miles
	STA 157+13.5 to STA 128+48.4	2,865.10	0.54
	STA 344+37.51 to STA 340+00.19	437.32	0.08
	STA EQ		
	STA 340+00.19 BK=		
	STA 339+94.78 AH		
	STA 339+94.78 to STA 335+29.24	198.03	0.04
	STA EQ		
	STA 335+29.24 BK=		
	STA 335+27.36 AH		
	STA 335+27.36 to STA 325+76.06	951.30	0.18
	STA 77+14.0 to STA 100+00	2,286.00	0.43
	STA EQ		
	STA 100+00.0 BK=		
	STA 0+00.0 AH		
	STA 0+00.0 to STA 5+87.5	587.50	0.11
	BRIDGE		
	STA 333+15.0	(40.0)	(0.01)
	TOTAL	7,285.25	1.38



DESIGN DATA URBAN		
20 21	AADT	3420 V.P.D.
20 –	AADT	-- V.P.D.
20 –	DHV	-- V.P.H.
TRUCKS		6 %
Total Design ESALs		599,184

PRELIMINARY PLANS

Subject to change by final design.

D2 PLAN: 6/28/23

FILE NO. -	ENGLISH	DESIGN TEAM KELLY/MEISE	FAYETTE COUNTY	PROJECT NUMBER NHSX-003-7(049)--3H-33	SHEET NUMBER A.1

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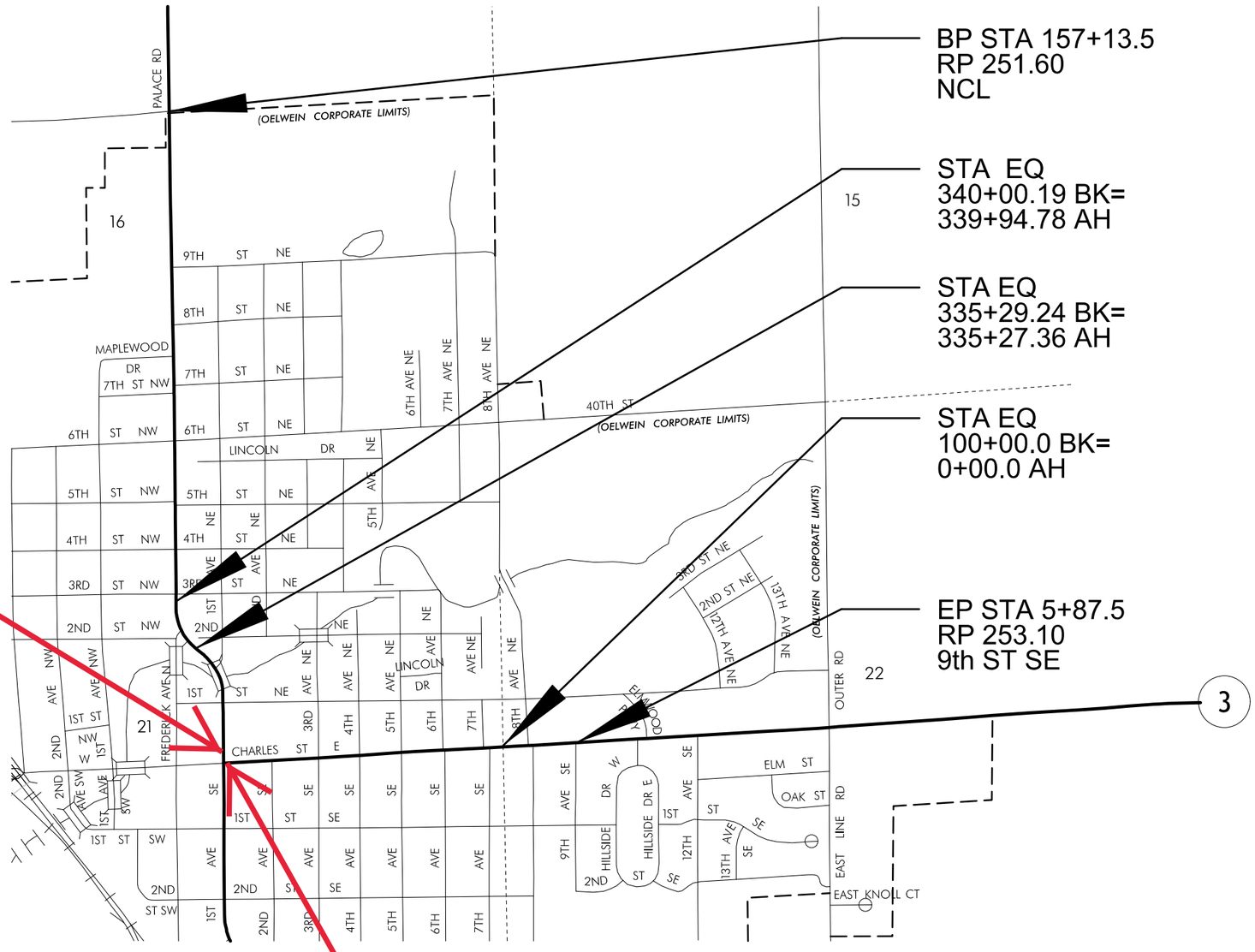

FILE NO. -	ENGLISH	DESIGN TEAM KELLY/MEISE	FAYETTE COUNTY	PROJECT NUMBER NHSX-003-7(049)--3H-33	SHEET NUMBER A.2

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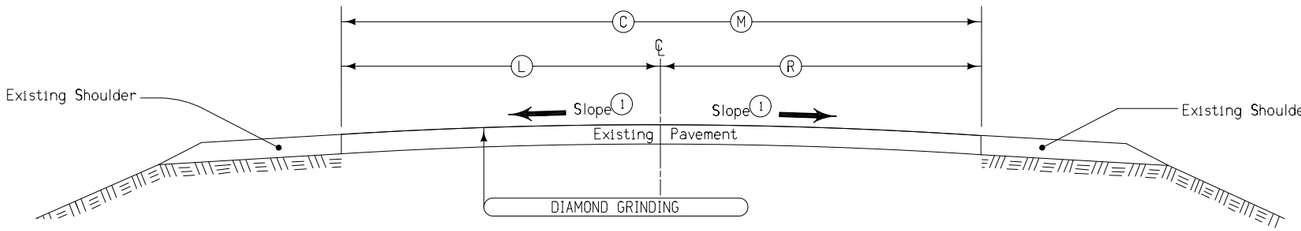
MK-1

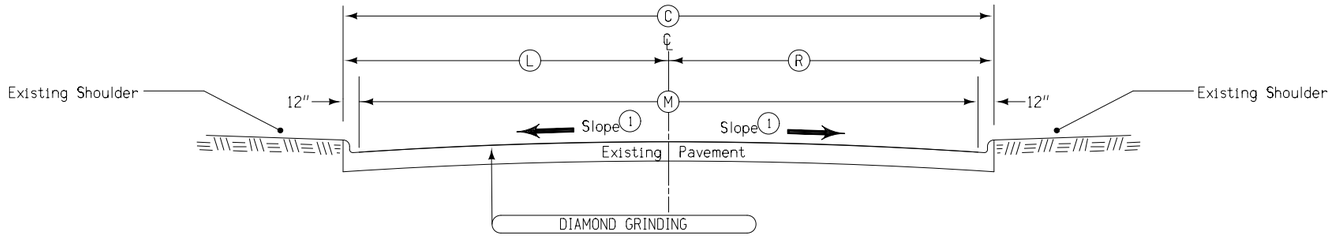


1. Match finished slope to existing pavement.
2. Run-out grinding as directed by the Engineer (Typically 15 feet).

Location			C	L	R	M	Length	Area	Remarks
Road Identification	Station To Station		Feet	Feet	Feet	Feet	Feet	SY	
Iowa 17	157+13.5	156+26.0	32-56	16-28	16-28		87.5	428	BOP
								980	TOTAL

TYPICAL CROSS SECTION
DIAMOND GRINDING
RURAL

MK-2



1. Match finished slope to existing pavement.
2. Run-out grinding as directed by the Engineer (Typically 15 feet).
3. Calculated area of diamond grinding only (M * length).

Location			C	L	R	M	Length	Area (3)	Remarks
Road Identification	Station To Station		Feet	Feet	Feet	Feet	Feet	SY	
Iowa 17	156+26.0	128+48.4	48	24	24	47	874.0	4,564	
	344+37.51	340+00.19	48	24	24				
									STA EQ
	339+94.78	335+29.24	48	24	24				
									STA EQ
	335+27.36	329+95.87	48	24	24				
	329+95.87	328+50.0	58	24	24				
	328+50.0	325+76.07	48	24	24				
	77+38.5	100+00.0	44.4	22.2	22.2				RT=south side
									STA EQ
	0+00.0	5+87.5	44	22	22				RT= south side
								40,031	TOTAL

TYPICAL CROSS SECTION
DIAMOND GRINDING
URBAN

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Item no.	Item Code	Item	Unit	Quantities Estimated Division 1	Estimate Reference Notes
1	2212-0475095	CLEANING AND PREPARATION OF BASE	MILE	2.76	Quantity is based on length of the project times two. Need to determine if this item is necessary or incidental to grinding. Some dirt and debris sitting in curb and gutter.
2	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	2,200	Refer to Tabulation 102-6C.
3	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	100	
4	2213-6745500	REMOVAL OF CURB	STA	0	Refer to Tabulation 110-4 and S Sheet for additional information. Remove curb and gutter to the nearest joint. Saw cutting is considered incidental. delete
5	2214-5145150	PAVEMENT SCARIFICATION	SY	39,382.6	Refer to Typical MK-1 and Tabulation 108-25 and 102-10 for additional information. Contractor shall mill HMA to the surface of the underlying PCC. delete
6	2435-0140204	MANHOLE, STORM SEWER, SW-402, TOP ONLY	EACH	1	Refer to Tabulation 104-11 for additional information.
7	2435-0250704	INTAKE, SW-507, TOP ONLY	EACH	1	
8	2435-0250804	INTAKE, SW-508, TOP ONLY	EACH	1	
9	2435-0251104	INTAKE, SW-511, TOP ONLY	EACH	2	
10	2435-0254104	INTAKE, SW-541, TOP ONLY	EACH	2	
11	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	79	Refer to Tabulation 104-5A for additional information.
12	2512-1725256	CURB AND GUTTER, P.C. CONCRETE, 2.5 FT.	LF	290	Refer to Tabulation 112-4 for additional information. Integral curb and gutter, this will be included with the patch tab.
13	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	326.32	Refer to Tabulations 108-22 and 108-29 for additional information. Final pavement markings shall be placed a minimum of 30 days after final HMA lift placement.
14	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	EACH	29	
15	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS	STA	326.32	
16	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	29	
17	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to J Sheets.
18	2528-8445113	FLAGGERS	EACH	1 0	See Proposal
19	2532-5200001	PAVEMENT SURFACE REPAIR (GRINDING LIMESTONE)	SY	39,382.6	Determine if a maximum allowable grinding depth needs to be specified.
20	2533-4980005	MOBILIZATION	LS	1	--
21	2542-1006001	CRACK AND JOINT CLEANING AND FILLING (PCC PAVEMENT)	MILE	2.76 5.5	
22	2542-1007000	SEALER MATERIAL (PCC PAVEMENT)	LB	10,000	"Quantity is estimated on the basis of 1 lb of material per 2.5 feet of crack/joint filling."

Add: Construction Survey

Item no.	Item Code	Item	Unit	Quantities Estimated Division 1	Estimate Reference Notes
23	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.	LF		(Use this note if specific locations have been determined) Refer to Tab. 100-19. The tabulation includes estimated locations for placement of "Perimeter and Slope Sediment Control Device, 9 in. dia." 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. Use Perimeter and Slope Sediment Control Devices fabricated using wood excelsior. (Use this note if specific locations have not been determined) Item is included for temporary perimeter sediment control, inlet protection, and water velocity reduction on slopes or ditches at locations to be determined during construction. Verify specific locations with the Engineer prior to beginning placement. Use Perimeter and Slope Sediment Control Devices fabricated using wood excelsior.Use wood excelsior sediment logs
24	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF		
25	2602-0000500	OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602	LF	371	
26	2602-0000510	MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	44	
27	2602-0000520	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	44	

May not need all erosion control items.

Intake filters may not be needed if incidental to grinding to prevent slurry going into the intakes. .

NOTES:
- curb and gutter intakes are much higher than surrounding pavement. City had no interest in repairing intake. May discuss to see if there are a few they may want to address. May have to gap the intakes to stay out of them or see if we can feather into them.

- Do not grind parking lane. In good condition. Feather into the parking lane to avoid vertical lip.

- Request patch tab from Construction. Include notes if patch will include a curb and gutter section or manhole.

-Slurry collection is not a bid item but is covered by spec for grinding.

-City indicated that the traffic signal loops are 2 inches deep. If we grind over them, reseal them.

-City is going to consider re-stripping to three lane on the N-S section of pavement from near 3rd St to the end of the project. Will need detail for pavement marking is they elect to do this.

-Add pavement marking detail or note to tell contractor outside lanes should be 11 feet on the E-W leg of the project. Could include as-built for info purpose only.

100-1D
10-18-05

PROJECT DESCRIPTION

Project includes rehabilitating the pavement on IA 3 from the north corporate limits south and east to the intersection of 9th Ave SE. Patching and diamond grinding along with manhole adjustments, curb and gutter replacement, joint filling and pavement markings.

cleaning and

111-25
10-18-11

INDEX OF TABULATIONS

Tabulation	Tabulation Title	Sheet No.
C Sheets		
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100-25	HMA PAVEMENT	C.6
100-27	PROPOSED POSTED SPEED LIMIT	C.3
100-36	OPEN-THROAT CURB INTAKE SEDIMENT FILTER	C.4 - C.4
102-5	EXISTING PAVEMENT	C.3
102-5A	EXISTING HMA PAVEMENT FOR RECYCLING	C.5
102-6C	FULL-DEPTH PATCHES	C.5
102-14	PARTIAL DEPTH HMA OR PCC REPAIR PATCHES	C.5
102-16	NOTCHES AND RUNOUTS FOR RESURFACING	C.7
104-5A	INTAKES AND UTILITY ACCESSES	C.5
104-10	ADJUSTMENT OF FIXTURES	C.4 - C.4
104-11	REBUILDING OF INTAKES AND UTILITY ACCESSES	C.5
105-4	STANDARD ROAD PLANS	C.3
108-22	PAVEMENT MARKING LINE TYPES	C.8
108-29	PAVEMENT MARKING SYMBOLS AND LEGENDS	C.8
111-25	INDEX OF TABULATIONS	C.3
112-4	CURBS AND RAISED ISLANDS	C.7

262-6
10-18-05

UTILITIES
(NOT A POINT 25 PROJECT)

This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.

105-4
10-18-11

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title
EC-602	04-21-20	Open-Throat Curb Intake Sediment Filter
PM-110	04-21-20	Line Types
PM-111	04-21-20	Symbols and Legends
PM-420	10-15-19	Two-Lane Roadway with no Turn Lanes (One-Way Stop Condition)
PM-520	10-15-19	Two-Lane Roadway with no Turn Lanes (Two-Way Stop Condition)
PR-102	04-21-20	Full Depth PCC Patch without Dowels
PR-103	10-17-23	Full Depth PCC Patch with Dowels
PR-110	10-21-14	PCC Crack and Joint Cleaning and Filling
PR-140	04-21-15	Subbase Patches
PR-202	10-21-14	Notches for Resurfacing (with or without Runout)
PV-101	04-19-22	Joints
PV-102	04-21-20	PCC Curb Details
PV-103	04-19-22	Manhole Boxouts in PCC Pavement
SW-507	04-21-20	Single Open-Throat Intake, Small Box
SW-508	04-21-20	Single Open-Throat Intake, Large Box
SW-541	04-21-20	Open-Throat Curb Intake under Pavement
SW-542	10-20-20	Extension Unit for Open-Throat Curb Intake under Pavement
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-419	04-18-23	Lane Closure on Undivided Highway
TC-423	04-18-23	Closure of Two Adjacent Lanes on Undivided Highway
TC-431	04-18-23	Slow Moving Vehicle Operating in the Traffic Lane
TC-433	10-17-17	Pavement Marking Operations
TC-482	04-19-22	Uneven Lanes

102-5
04-18-17

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 IN	Type	Depth IN	Type	Depth IN	Type	Depth IN	Source	Type	Durability Class	Type	
	33	IA 3	SB	251.56	252.17	1957		U-59(6)	PCC	9.5											
				252.17	253.1	1966		UN-3-7(1)	PCC	9											

Is Coarse aggregate info available ?

290-02
04-21-15

SMALL QUANTITY CONCRETE TESTING

- Test air and slump once per 30 cy placed, or minimum of once per day.
- Verification gradations will not be required for this project. However, the Contractor will be expected to provide certified plant inspection.
- The Contractor has the option of using the following minimum opening times in lieu of flexural testing:
  - 48 hours for pedestrian traffic
  - 72 hours for curb and gutter or patching

100-27
04-17-18

PROPOSED POSTED SPEED LIMIT

Road Identification	Begin Station	End Station	Proposed Posted Speed Limit			Remarks
			35 or less	40 - 45	over 45	
IA 3	157+13.50	128+48.40	x			
	344+37.51	340+00.19	x			
	339+94.78	335+29.24	x			
	335+27.36	325+76.08	x			
	77+38.50	100+00.00	x			
	+00.00	5+87.50	x			

ADJUSTMENT OF FIXTURES

No.	Location Station	Type of Fixture	Adjustment
	156+00.00	Intake, H2	West
	156+00.00	Intake, H2	East
	151+37.00	Sanitary MH	covered w hma
	146+85.10	Intake, S	West
	146+85.10	Intake, S	East
	146+85.10	Sanitary MH	
	146+85.10	Water MH	East, no box out
	144+24.10	Sanitary MH	
	144+24.10	Intake. S	Southwest
	144+24.10	Intake, S	southeast
	141+85.80	Water valve	East of CL
	141+85.80	Sanitary MH	
	141+50.00	Water valve	6' east of CL
	141+50.00	Water valve	10' east of CL
	141+24.60	Sanitary MH	
	141+24.60	Intake, S	Southeast
	141+24.60	Intake, S	Southwest
	139+33.80	Sanitary MH	
	137+50.60	Intake, H2?	northeast
	137+50.60	Water MH	East
	137+41.50	Sanitary MH	
	137+50.60	water mh	southeast
	137+77.15	Intake, H2?	southeast
	137+41.50	Intake, S	Southwest
	136+43.00	Sanitary MH	
	135+00.00	Sanitary MH	
	132+32.70	Sanitary MH	West
	132+10.60	Water valve	East
	132+10.60	Sanitary MH	
	132+10.60	Intake, S	east
	132+10.60	Intake, 2 intake	West
	344+37.51	Water MH	East, covered w HMA
	344+37.51	Sanitary MH	West
	344+37.51	Intake, S	southwest
	344+37.51	Intake, 2 intake	southeast
	340+77.20	Water valve	East
	340+77.20	Sanitary MH	West
	340+77.20	Water valve	east
	340+77.20	Water valve	eat
	340+77.20	Intake, S	southeast
	340+77.20	Intake, S	southwest
	338+50.00	Intake, long throat	East
	338+00.00	Water valve	east
	335+30.00	Intake	West
	334+00.00	Intake, long throat	Northwest
	334+00.00	Intake, long throat	northeast
	330+67.87	Water valve	east
	330+67.87	Water MH	east
	330+67.87	Sanitary MH	
	330+67.87	MH	West
	330+67.87	MH	West
	330+67.87	Intake,H2	southwest
	330+67.87	Intake, H2	southeast
	328+50.00	Sanitary MH	2' west
	328+50.00	Intake, H2	West
	328+50.00	Intake, H2	East
	327+00.00	intake, H2	east
	325+76.06	Water valve	12' east of CL
	325+76.06	MH	E, CL of 7th
	325+76.06	MH	east
	77+14.00	Sanitary MH	2' west of CL
	77+14.00	MH	24' w of CL
	77+14.00	Telephone, MH	at ADA west
	77+14.00	Intake, RA-6	north
	77+14.00	Intake, RA-6	south
	79+10.00	Sanitary MH	2' S of CL
	80+50.00	mh	4' s of n curb
	80+50.00	RA-7	north
	80+50.00	RA-6	south
	81+19.50	Water MH	6' s of N curb
	81+19.50	Sanitary MH	2' S of CL
	81+19.50	Storm MH	2' n of s curb
	83+03.50	MH	3' n of S curb
	83+20.00	RA-6-mh	21.53 n
	83+20.00	RA-6-mh	37.9 s
	84+93.00	Sanitary MH	CL
	85+00.00	Intake, RA-7	33' n of cl
	85+00.00	Intake, RA-7	38.3 s of cl
	85+00.00	Water valve	12' n of cl
	85+05.00	Water valve	12' n of cl
	86+37.00	MH	6' n of s curb

104-10
08-01-08

ADJUSTMENT OF FIXTURES

No.	Location Station	Type of Fixture	Adjustment
	88+29.70	Sanitary MH	cl
	88+29.70	Water MH	6' s of N curb
	88+29.70	Intake, RA-7	north
	88+29.70	Intake, RA-7	south
	91+70.20	Water MH	12' s of n curb
	91+70.20	Water MH	3' s of n curb
	91+70.20	Storm MH, RR-2	3' s of n curb
	91+70.20	Sanitary MH	Cl
	91+70.20	Water MH	9' s of n curb
	91+70.20	Intake, RA-7	north
	91+70.20	Intake, RA-7	south
	95+21.10	Sanitary MH	CL
	95+21.10	Water MH	2' s of n curb
	95+21.10	Water MH	9' s of n curb
	95+50.00	Storm MH, RA-2	2' s of n curb
	98+39.30	Intake, RA-6- MH	north
	98+84.00	intake, RA-6, MH	south
	98+84.00	Sanitary MH	cl
	98+95.00	Water valve	9' s of n curb
	99+20.00	MH, RA-2	3' s of n curb
	2+03.00	intake, RA-6, MH	2' s of n curb
	2+45.50	Intake, RA-3	2' n of s curb
	2+45.50	Sanitary MH	cl
	2+45.50	MH	2' n of s curb
	2+45.50	Intake, RA-3	north
	2+45.50	Intake, RA-3	south
	5+87.50	MH	south- on gutter line, intersection
	5+87.50	mh	in approach
			X MH, X WV, X Intake

These are ex. RA-6 Intakes w/RA-7 Ext.

?

100-36
10-16-18

OPEN-THROAT CURB INTAKE SEDIMENT FILTER

Possible Standard: EC-602

Location Station	Side	Installation	Maintenance	Removal	Remarks
		LF	EACH	EACH	
156+00.00	W	9.0	1	1	
156+00.00	E	9.0	1	1	
146+85.10	W	10.0	1	1	
146+85.10	E	10.0	1	1	
144+24.10	SW	10.0	1	1	
144+24.10	SE	10.0	1	1	
141+24.60	SW	10.0	1	1	
141+24.60	SE	10.0	1	1	
137+50.60	NE	9.0	1	1	
137+77.15	SE	9.0	1	1	
137+41.50	SW	10.0	1	1	
132+10.60	E	10.0	1	1	
132+10.60	W	10.0	1	1	
344+37.51	SW	10.0	1	1	
344+37.51	SE	10.0	1	1	
340+77.20	SE	10.0	1	1	
340+77.20	SW	10.0	1	1	
338+50.00	E	10.0	1	1	
335+30.00	W	5.0	1	1	
334+00.00	NW	10.0	1	1	
334+00.00	NE	10.0	1	1	
330+67.87	SW	9.0	1	1	
330+67.87	SE	9.0	1	1	
328+50.00	W	9.0	1	1	
328+50.00	E	9.0	1	1	
327+00.00	E	9.0	1	1	
77+14.00	N	5.0	1	1	
77+14.00	S	5.0	1	1	
80+50.00	N	10.0	1	1	
80+50.00	S	5.0	1	1	
83+20.00	N	5.0	1	1	
83+20.00	S	5.0	1	1	
85+00.00	N	10.0	1	1	
85+00.00	S	10.0	1	1	
88+29.70	N	10.0	1	1	
88+29.70	S	10.0	1	1	
91+70.20	N	10.0	1	1	
91+70.20	S	10.0	1	1	
98+39.30	N	5.0	1	1	

100-36
10-16-18

OPEN-THROAT CURB INTAKE SEDIMENT FILTER

Possible Standard: EC-602

Location Station	Side	Installation	Maintenance	Removal	Remarks
		LF	EACH	EACH	
98+84.00	S	5.0	1	1	
2+03.00	N	5.0	1	1	
2+45.50	S	5.0	1	1	
2+45.50	N	5.0	1	1	
2+45.50	S	5.0	1	1	
		371.0	44	44	TOTAL

May not need these if slurry handling is incidental to grinding.

102-14
04-18-17

PARTIAL DEPTH HMA OR PCC REPAIR PATCHES

Waiting to see if needed from Construction's patch tab.

Location						Type HMA or PCC	Dimension of Patch		Est. Quantities			Remarks
No.	Begin Station	End Station	Begin Reference Location Sign	End Reference Location Sign	Lane		Length	Width	PCC	HMA		
							FT	FT	SF	SY	TONS	

102-6C
04-18-17

FULL-DEPTH PATCHES

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

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

102-5A
10-20-15

EXISTING HMA PAVEMENT FOR RECYCLING

delete

For informational purposes only. When designed RAP is specified, process the RAP to control the uniformity of the final mixture.

Route No.	Location	Year Placed	Layer	Thickness	Asphalt Binder		Mix									
					Grade	Content	Description	Quality Type	Size	Content	% of -4 that is Type 2	% of +4 that is Type 2	% of +4 that is Type 3	% of +4 that is Type 4	% Crushed	% Limestone

104-5A
10-15-13

INTAKES AND UTILITY ACCESSES

* Bid Item
** For SW-545

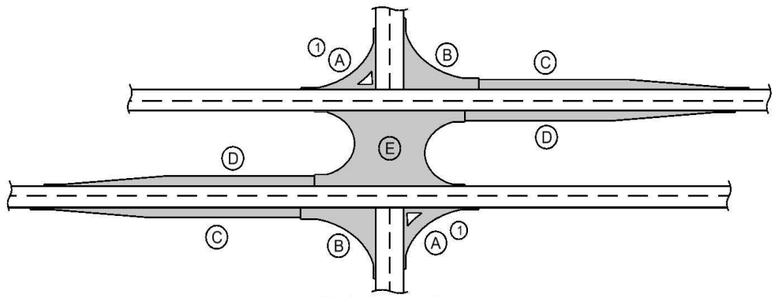
No.	Location Station	Type or Standard Road Plan*	Form Grade	Bottom Well	Extension Length**	Notes
			Elev.	Elev.	FT	

104-11
08-01-08

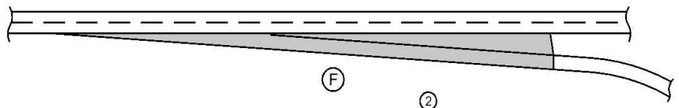
REBUILDING OF INTAKES AND UTILITY ACCESSES

No.	Location Station	Type	Adjustment
	156+00.00	E, Type M-2	Replace top, use SW-511
	137+50.60	E, Type M	Replace top, use SW-511
	330+67.70	W, Type H-2	Replace top, use SW-507
	83+03.50	N, Type RA-6	Replace top, use SW-541
	83+03.50	S, Type RA-6	Replace top, use SW-541
	84+93.00	S, Type RA-3	Replace top, use SW-508
	99+25.00	N, Type RA-2	Replace top, use SW-402
			7 Intakes, 1-402, 1-507, 1-508, 2-511, 2-541

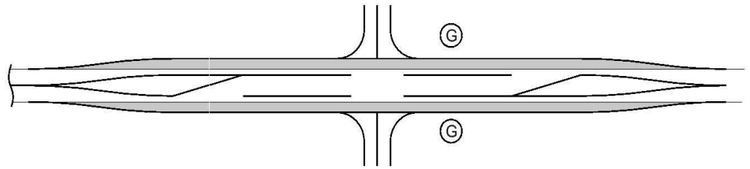
HMA PAVEMENT



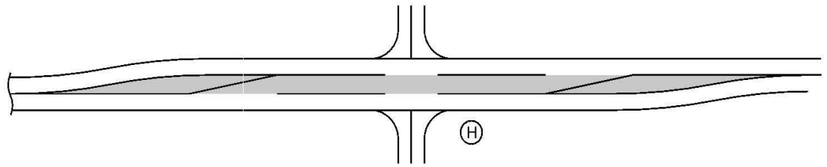
Typical Intersection



Ramp or Loop Taper (2)



Channelized Intersection
Widen Existing Roadway



Channelized Intersection
Reconstructed Roadway

(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 0, 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 140.

Location				Mainline			Area (3)								Bid Items												
															Hot Mix Asphalt Pavement						Binder						
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	A (1)	B	C	D	E	F (2)	G	H	Surface		Intermediate		Base		Surface	Intermediate	Base	Special Backfill	Modified Subbase	Granular Subbase	Pavement Scarification	Remarks
				FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	TONS	SY	TONS	SY	TONS	SY	TONS	TONS	TONS	TONS	CY	SY	SY	
IA 3	SB	157+26.00	156+26.00	32-56	100.0	488.9																				488.9	
	SB	156+26.00	128+48.40	48.0	2777.6	14813.9																				14813.9	
	SB	344+37.51	340+00.19	48.0	437.3	2332.4																				2332.4	
STA EQ																											
	SB	339+94.78	335+29.24	48.0	465.5	2482.9																				2482.9	
STA EQ																											
	SB	335+27.36	329+95.87	48.0	531.5	2834.6																				2834.6	
	SB	329+95.87	328+50.00	58.0	145.9	940.1																				940.1	
	SB	328+50.00	325+76.06	48.0	273.9	1461.0																				1461.0	
	EB	77+38.50	100+00.00	44.4	2261.5	11156.7																				11156.7	
STA EQ																											
	EB	+00.00	5+87.50	44.0	587.5	2872.2																				2872.2	
																										39382.6	TOTAL

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	
157+13.50	Type 'N4'				0.0			Begin project
	Type 'N4'				0.0			Prior to bridge
	Type 'N4'				0.0			After bridge
325+76.06	Type 'N4'				0.0			Prior to intersection
77+38.50	Type 'N4'				0.0			After intersection
5+87.50	Type 'N4'				0.0			End project
Sideroads								
151+37.00	Type 'N2'				0.0			9th St NE
146+85.10	Type 'N2'				0.0			8th St NE
144+24.10	Type 'N2'				0.0			Maplewood Dr
141+85.80	Type 'N2'				0.0			7th St NE
141+24.60	Type 'N2'				0.0			7th St NW
139+33.80	Type 'N2'				0.0			alley
137+50.60	Type 'N2'				0.0			6th St NE
137+41.50	Type 'N2'				0.0			6th St NW
132+32.70	Type 'N2'				0.0			5th ST NW
132+10.60	Type 'N2'				0.0			5th St NE
130+45.60	Type 'N2'				0.0			alley
128+48.40	Type 'N2'				0.0			4th ST NW
344+37.51	Type 'N2'				0.0			4th St NE
342+55.00	Type 'N2'				0.0			alley
340+77.20	Type 'N2'				0.0			3rd St NW
337+96.75	Type 'N2'				0.0			3rd St NE
333+52.08	Type 'N2'				0.0			2nd St NW/Main
330+67.92	Type 'N2'				0.0			1st Ave NE
330+67.92	Type 'N2'				0.0			1st St NE
325+76.08	Type 'N2'				0.0			1st Ave NE/E Charles St
79+55.00	Type 'N2'				0.0			alley
81+19.50	Type 'N2'				0.0			2nd Ave SE
83+03.50	Type 'N2'				0.0			alley
84+93.00	Type 'N2'				0.0			3rd Ave SE
84+95.40	Type 'N2'				0.0			3rd Ave NE
86+59.10	Type 'N2'				0.0			alley
88+29.70	Type 'N2'				0.0			4th Ave SE
88+29.70	Type 'N2'				0.0			4th Ave NE
89+99.00	Type 'N2'				0.0			alley
89+99.00	Type 'N2'				0.0			alley
91+70.20	Type 'N2'				0.0			5th Ave SE
91+70.20	Type 'N2'				0.0			5th Ave NE
93+40.00	Type 'N2'				0.0			alley
93+40.00	Type 'N2'				0.0			alley
95+04.60	Type 'N2'				0.0			6th Ave NE
95+21.10	Type 'N2'				0.0			6th Ave SE
96+68.80	Type 'N2'				0.0			alley
97+03.00	Type 'N2'				0.0			alley
98+39.30	Type 'N2'				0.0			7th Ave NE
98+84.00	Type 'N2'				0.0			7th Ave SE
+60.00	Type 'N2'				0.0			alley
2+03.00	Type 'N2'				0.0			8th Ave NE
2+45.50	Type 'N2'				0.0			8th Ave SE
5+87.50	Type 'N2'				0.0			9th Ave SE

Delete 102-16

CURBS AND RAISED ISLANDS

Refer to , , and Detail Series.

(1) Item

Point No.	Station	Offset	Island Interior Area (1)	Curb and Gutter			Remarks
				Curb Type	Gutter Width	Length (1)	
			SY		FT	LF	
	153+00.00	West		6" Standard PCC	2.0	50.0	Old drive
	152+24.00	East		6" Standard PCC	2.0	50.0	Near radius
	152+25.00	West		6" Standard PCC	2.0	50.0	Old drive
	151+30.00	West		6" Standard PCC	2.0	5.0	Sidewalk drop
	151+00.00	East		6" Standard PCC	2.0	20.0	Radius
	142+25.00	East		6" Standard PCC	2.0	5.0	N of intake
	138+00.00	West		6" Standard PCC	2.0	20.0	Radius
	334+00.00	East		6" Standard PCC	2.0	5.0	S of intake
	331+00.00	West		6" Standard PCC	2.0	10.0	Sump drain
	328+50.00	West		6" Standard PCC	2.0	30.0	Parking radius
	85+32.00	North		6" Standard PCC	2.0	10.0	Radius
	94+84.00	South		6" Standard PCC	2.0	10.0	Intake west
	99+21.00	South		6" Standard PCC	2.0	5.0	Radius
	5+30.50	North		6" Standard PCC	2.0	20.0	Old drive
						290.0	TOTAL

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.25 | DCY4: Double Centerline (Yellow) @ 2.00 | NPY4: No Passing Zone Line (Yellow) @ 1.25 | BLW4: Broken Lane Line (White) @ 0.25 | ELW4: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 1.00 | SLW4: Solid Lane Line (White) @ 1.00 | SLW2: Stop Line (White) @ 6.00 | CHY8: Channelizing Line (Yellow) @ 2.00 | CLW6: Crosswalk Line (White) @ 3.00

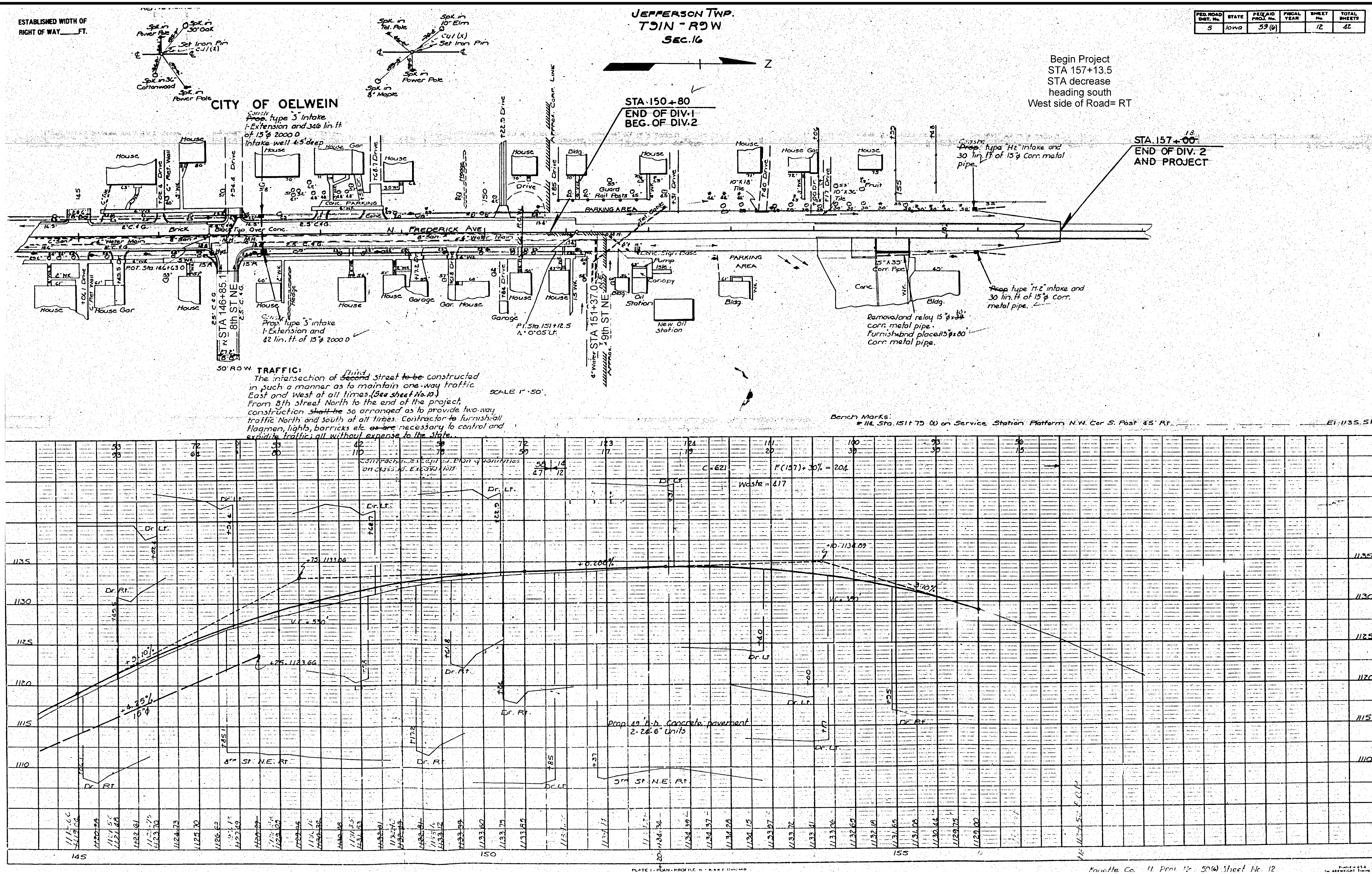
Location						Length by Line Type (Unfactored)														
Road ID	Station to Station		Dir. of Travel	Marking Type	Side	BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4	SLW4	SLW2	CHY8	CLW6					Remarks
					L C R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
	157+13.50	128+48.40	SB	Waterborne/Solvent Paint	x x x		28.65		28.65	57.30										
	344+37.51	340+00.19	SB	Waterborne/Solvent Paint	x x x		4.37		4.37	8.75										
	339+94.78	335+29.24	SB	Waterborne/Solvent Paint	x x x		4.66		4.66	9.31										
	335+27.36	325+76.08	SB	Waterborne/Solvent Paint	x x x		9.51		9.51	19.03										
	77+14.00	100+00.00	EB	Waterborne/Solvent Paint	x x x		1.50	36.24		45.03		1.00	0.26		0.57					
	+00.00	5+87.50	EB	Waterborne/Solvent Paint	x x x		3.00	2.71		11.75		2.00	0.52		0.63					
	157+13.50	5+87.50		Grooves Cut for Pavement Markings	x x x		51.69	38.95	47.19	151.16	0.00	3.00	0.78	0.00	1.20					
				Factored Total: Waterborne/Solvent Paint		-	103.38	48.69	11.80	151.16	-	3.00	4.68	-	3.60	-	-	-	-	-
				Factored Total: Grooves Cut for Pavement Markings		-	103.38	48.69	11.80	151.16	-	3.00	4.68	-	3.60	-	-	-	-	-
				Bid Quantity: Painted Pavement Markings, Waterborne or Solvent-Based					326.32											
				Bid Quantity: Grooves Cut for Pavement Markings					326.32											

PAVEMENT MARKING SYMBOLS AND LEGENDS

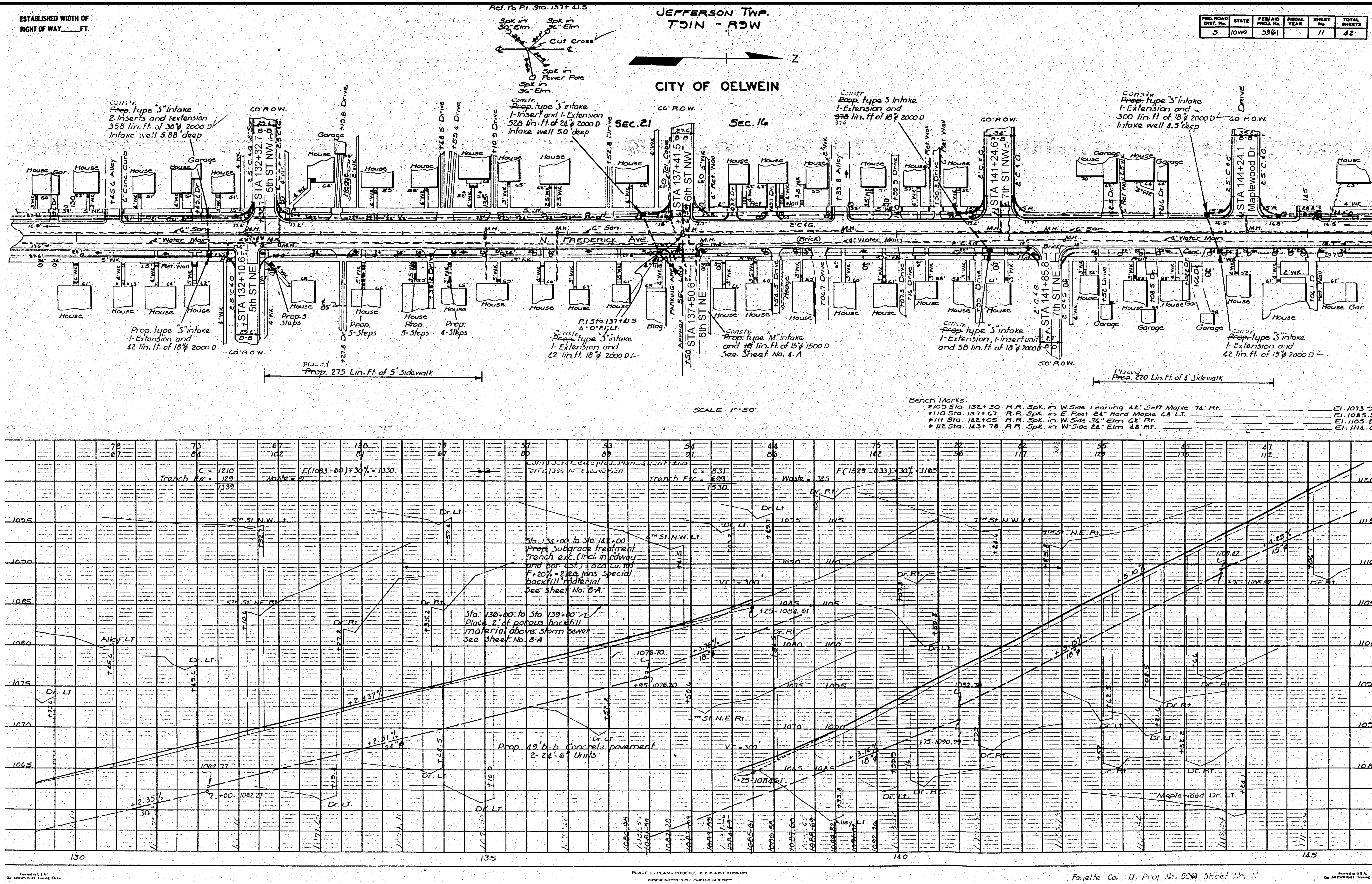
Refer to PM-111

Road Identification	Location																					Groove Cuts	Remarks
	Station	Side	STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	FERW	LLRW	RLRW	RRCW	BLSW	WCSW	WPSB	SCLW	XNGW	STPW	AHDW	ONLW	BIKW	LANW	XITW	EACH	
1	78+04.50	C			1																			1	
2	78+42.00	C																			1			1	
3	78+79.50	C			1																			1	
4	79+97.50	C			1																			1	
5	80+13.50	C			1																			1	
6	82+98.90	C			1																			1	
7	83+14.90	C			1																			1	
8	86+54.00	C			1																			1	
9	86+70.00	C			1																			1	
10	89+92.00	C			1																			1	
11	90+08.00	C			1																			1	
12	93+29.40	C			1																			1	
13	93+45.40	C			1																			1	
14	96+64.00	C			1																			1	
15	96+80.00	C			1																			1	
16	99+46.00	C			1																			1	
17	99+62.00	C			1																			1	
18	+00.00	EB															1							1	
19	+48.50	C			1																			1	
20	+86.00	C																			1			1	
21	+86.00	EB																1						1	
22	1+23.50	C			1																			1	
23	3+23.50	C			1																			1	
24	3+61.00	WB																1						1	
25	3+61.00	C																			1			1	
26	3+98.50	C			1																			1	
27	4+45.00	WB															1							1	
28	4+90.30	C			1																			1	
29	5+06.30	C			1																			1	
					22												2	2			3			29	TOTALS

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	Iowa	59 (6)		12	42



FILE NO. -	ENGLISH	DESIGN TEAM KELLY/MEISE	FAYETTE COUNTY	PROJECT NUMBER NHSX-003-7(049)--3H-33	SHEET NUMBER D.1



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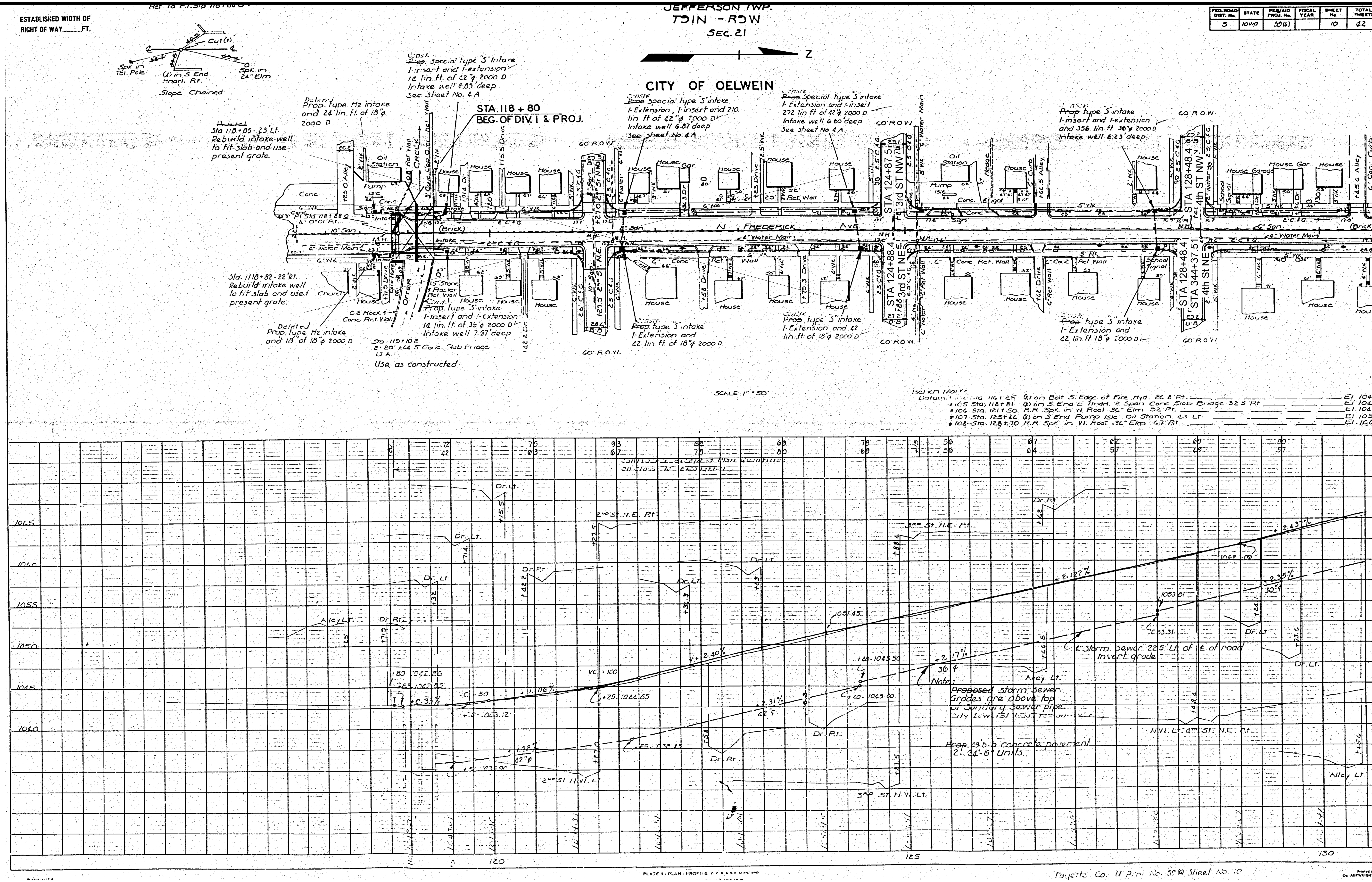

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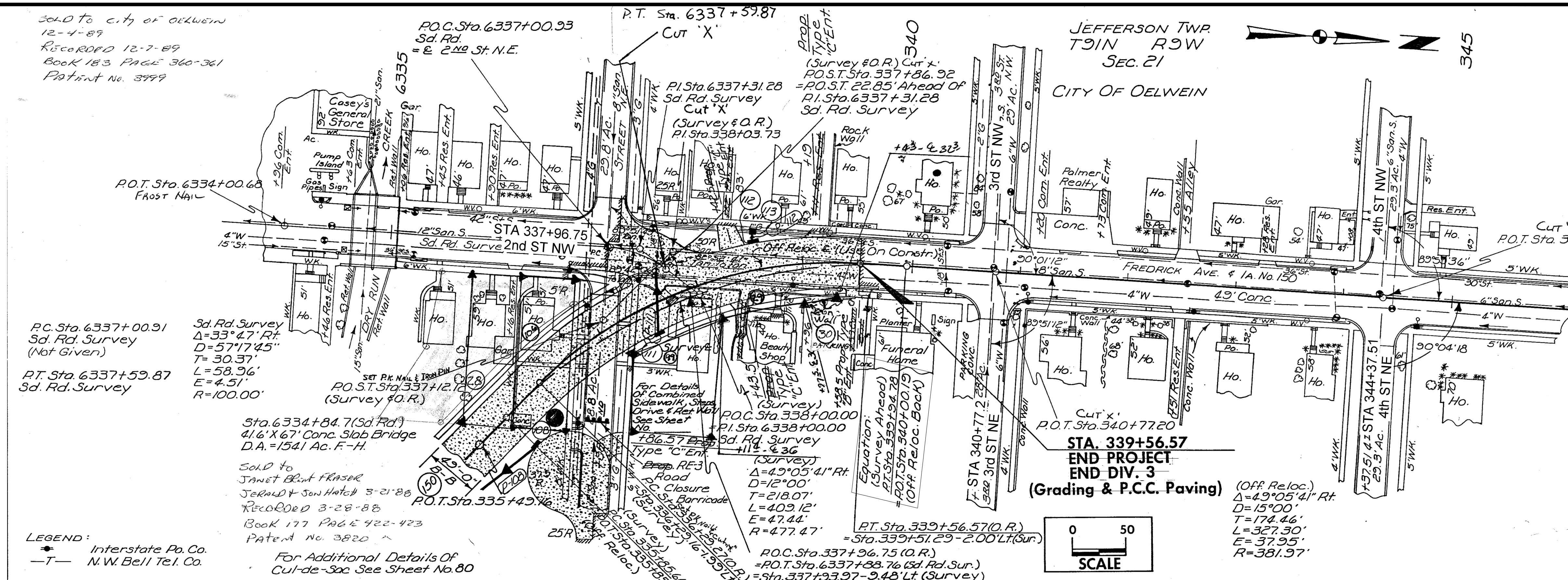
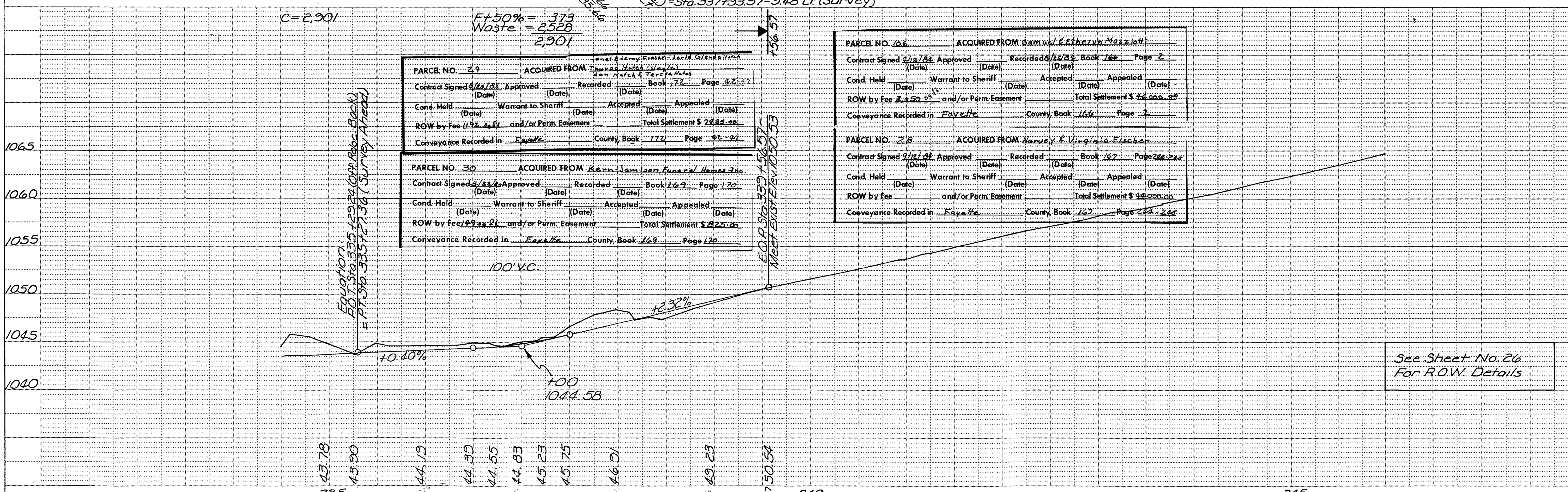




PARCEL NO. 29	ACQUIRED FROM Thursa Hatch (single); Janet & Jerry Fraser - Jerld Glenda Hatch; Jon Hatch & Teresa Hatch		
Contract Signed 8/28/85 (Date)	Approved ____ (Date)	Recorded ____ (Date)	Book 172 Page 42-47
Cond. Held ____ (Date)	Warrant to Sheriff ____ (Date)	Accepted ____ (Date)	Appealed ____ (Date)
ROW by Fee 1192 sq. ft.	and/or Perm. Easement ____	Total Settlement $ 7925.00	
Conveyance Recorded in Fayette	County, Book 172	Page 42-47	

PARCEL NO. 30	ACQUIRED FROM Kern-Jamison Funeral Homes Inc.		
Contract Signed 5/22/85 (Date)	Approved ____ (Date)	Recorded ____ (Date)	Book 169 Page 170
Cond. Held ____ (Date)	Warrant to Sheriff ____ (Date)	Accepted ____ (Date)	Appealed ____ (Date)
ROW by Fee 149 sq. ft.	and/or Perm. Easement ____	Total Settlement $ 825.00	
Conveyance Recorded in Fayette	County, Book 169	Page 170	

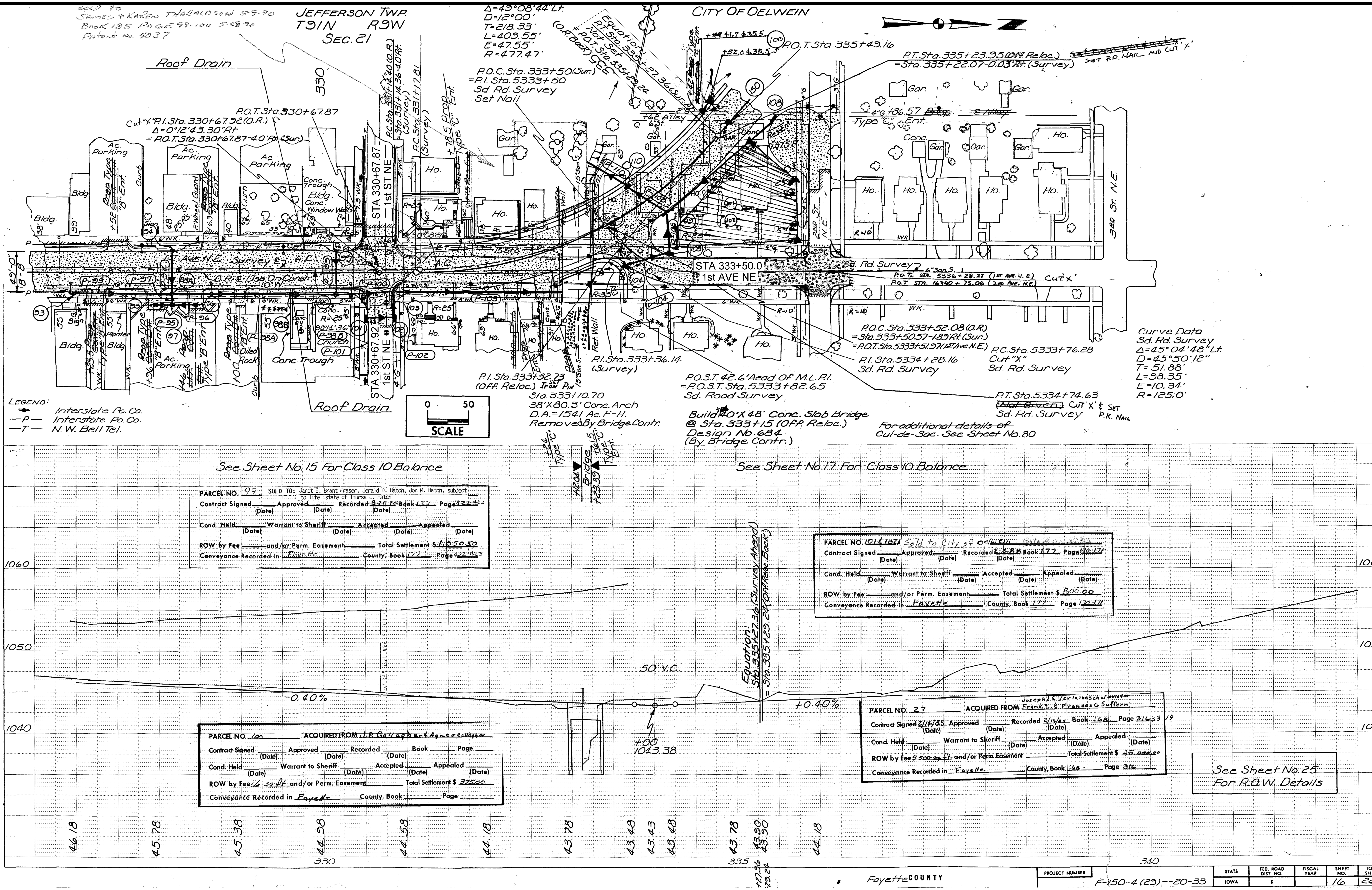
PARCEL NO. 106	ACQUIRED FROM Samuel & Ethelyn Mazziotti		
Contract Signed 4/13/84 (Date)	Approved ____ (Date)	Recorded 8/25/84 (Date)	Book 166 Page 2
Cond. Held ____ (Date)	Warrant to Sheriff ____ (Date)	Accepted ____ (Date)	Appealed ____ (Date)
ROW by Fee 2,050 sq. ft.	and/or Perm. Easement ____	Total Settlement $ 46,000.00	
Conveyance Recorded in Fayette	County, Book 166	Page 2	

PARCEL NO. 28	ACQUIRED FROM Harvey & Virginia Fischer		
Contract Signed 9/12/84 (Date)	Approved ____ (Date)	Recorded ____ (Date)	Book 167 Page 244-245
Cond. Held ____ (Date)	Warrant to Sheriff ____ (Date)	Accepted ____ (Date)	Appealed ____ (Date)
ROW by Fee ____	and/or Perm. Easement ____	Total Settlement $ 44,000.00	
Conveyance Recorded in Fayette	County, Book 167	Page 244-245	

Fayette COUNTY

PROJECT NUMBER	STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
F-150-4(29)--20-33	IOWA	5		17	245

FILE NO. -	ENGLISH	DESIGN TEAM KELLY/MEISE	FAYETTE COUNTY	PROJECT NUMBER NHSX-003-7(049)--3H-33	SHEET NUMBER D.4



Fayette COUNTY

PROJECT NUMBER	STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
F-150-4(29)--20-33	IOWA	5		16	245

FILE NO. - | ENGLISH | DESIGN TEAM KELLY/MEISE | FAYETTE COUNTY | PROJECT NUMBER NHSX-003-7(049)--3H-33 | SHEET NUMBER D.5

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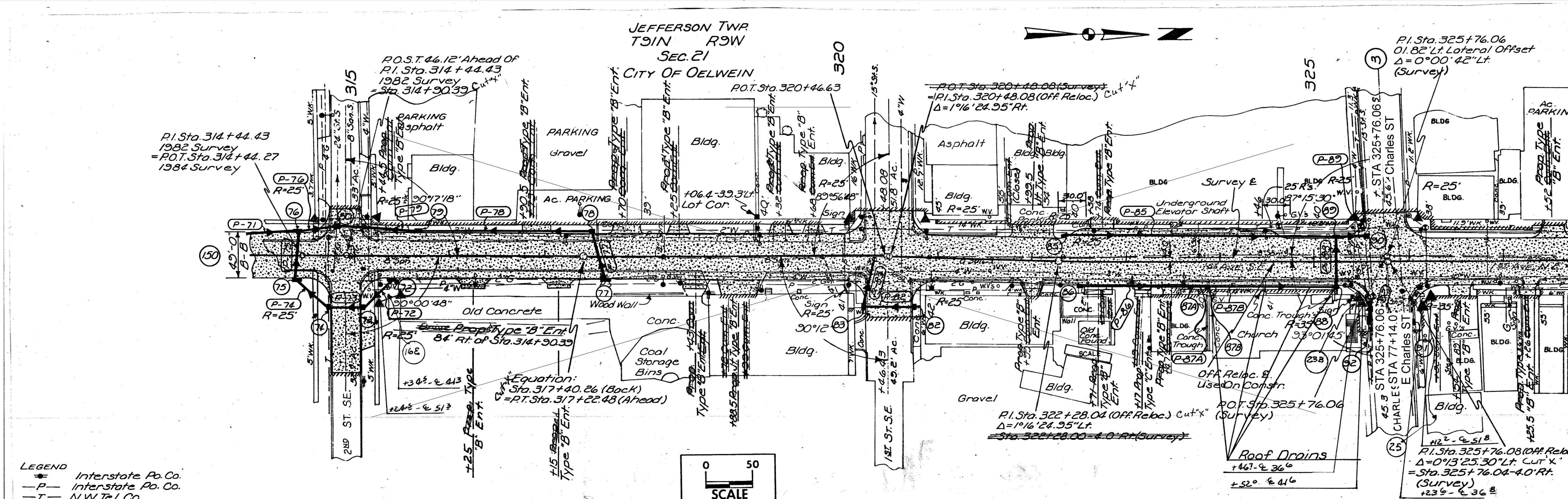


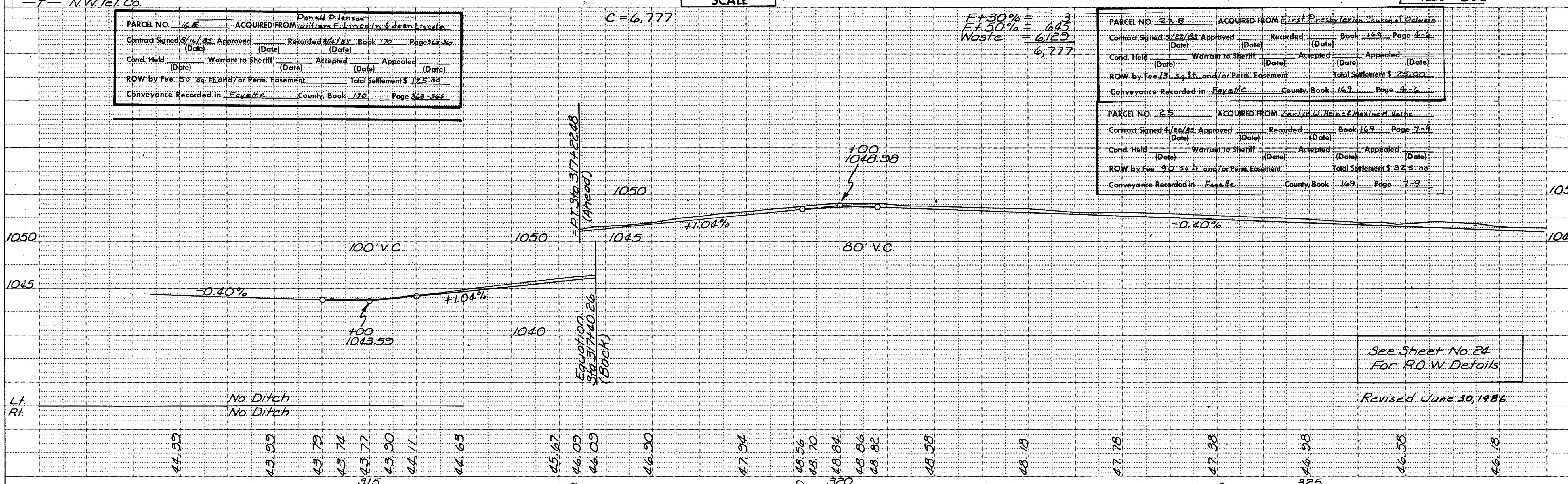
PARCEL NO. 16E	ACQUIRED FROM William F. Lincoln & Jean Lincoln (Donald D. Jenson)
Contract Signed 8/16/85 (Date)	Approved ____ (Date) Recorded 8/16/85 (Date) Book 170 Page 363-365
Cond. Held ____ (Date)	Warrant to Sheriff ____ (Date) Accepted ____ (Date) Appealed ____ (Date)
ROW by Fee 50 sq. ft. and/or Perm. Easement ____	Total Settlement $ 125.00
Conveyance Recorded in Fayette	County, Book 170 Page 363-365

C = 6,777

F+30% = 3
F+50% = 645
Waste = 6,129
6,777

PARCEL NO. 23 B	ACQUIRED FROM First Presbyterian Church of Oelwein
Contract Signed 5/22/85 (Date)	Approved ____ (Date) Recorded ____ (Date) Book 169 Page 4-6
Cond. Held ____ (Date)	Warrant to Sheriff ____ (Date) Accepted ____ (Date) Appealed ____ (Date)
ROW by Fee 13 sq. ft. and/or Perm. Easement ____	Total Settlement $ 75.00
Conveyance Recorded in Fayette	County, Book 169 Page 4-6

PARCEL NO. 25	ACQUIRED FROM Verlyn W. Heine & Maxine M. Heine
Contract Signed 4/24/85 (Date)	Approved ____ (Date) Recorded ____ (Date) Book 169 Page 7-9
Cond. Held ____ (Date)	Warrant to Sheriff ____ (Date) Accepted ____ (Date) Appealed ____ (Date)
ROW by Fee 90 sq. ft. and/or Perm. Easement ____	Total Settlement $ 325.00
Conveyance Recorded in Fayette	County, Book 169 Page 7-9



See Sheet No. 24 For R.O.W. Details

Revised June 30, 1986

Fayette COUNTY

PROJECT NUMBER	STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
E-150-4(29)--20-33	IOWA	5		15	245

FILE NO. -	ENGLISH	DESIGN TEAM KELLY/MEISE	FAYETTE COUNTY	PROJECT NUMBER NHSX-003-7(049)--3H-33	SHEET NUMBER D.6

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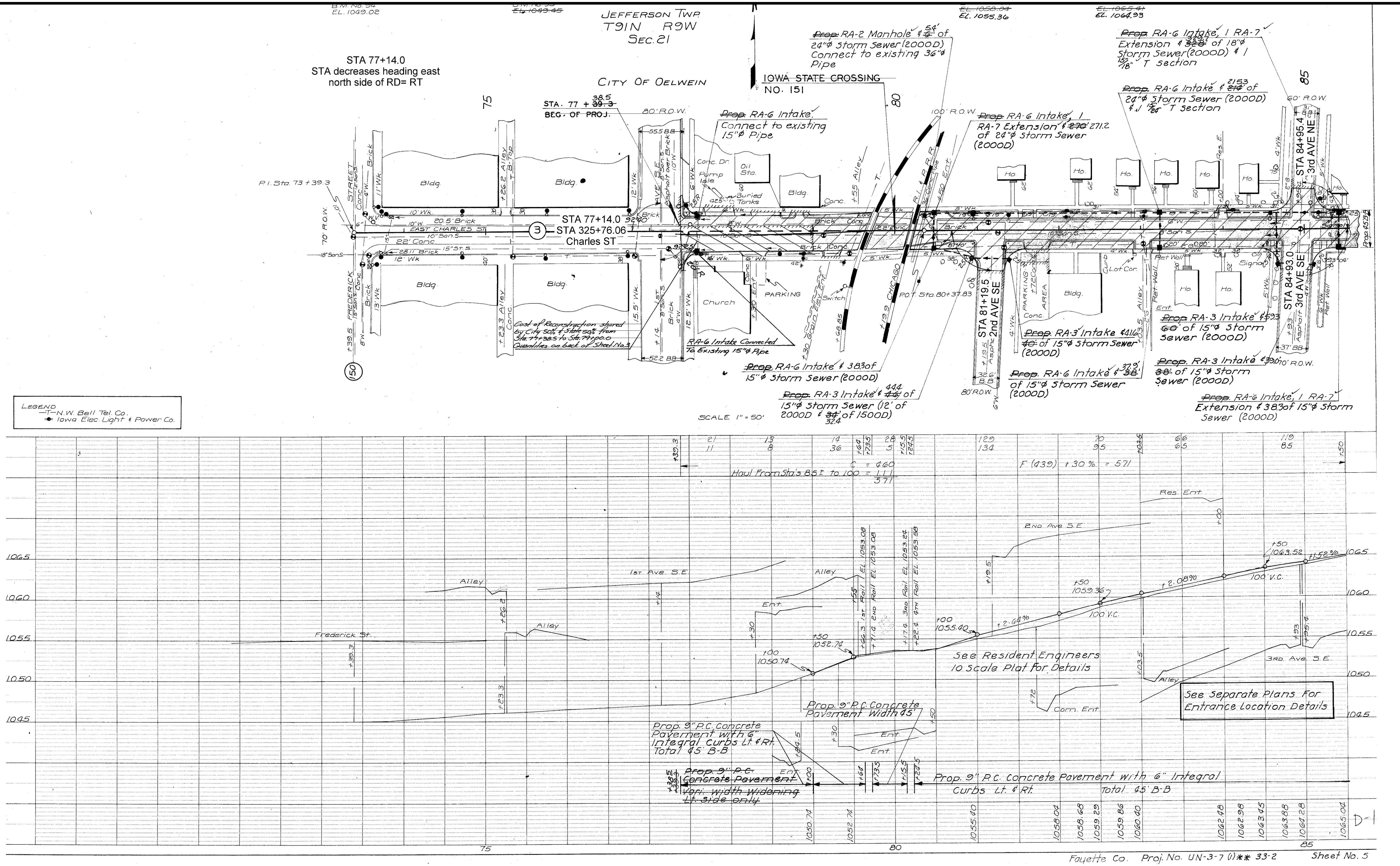

FILE NO. - | ENGLISH | DESIGN TEAM KELLY/MEISE | FAYETTE COUNTY | PROJECT NUMBER NHSX-003-7(049)--3H-33 | SHEET NUMBER D.7

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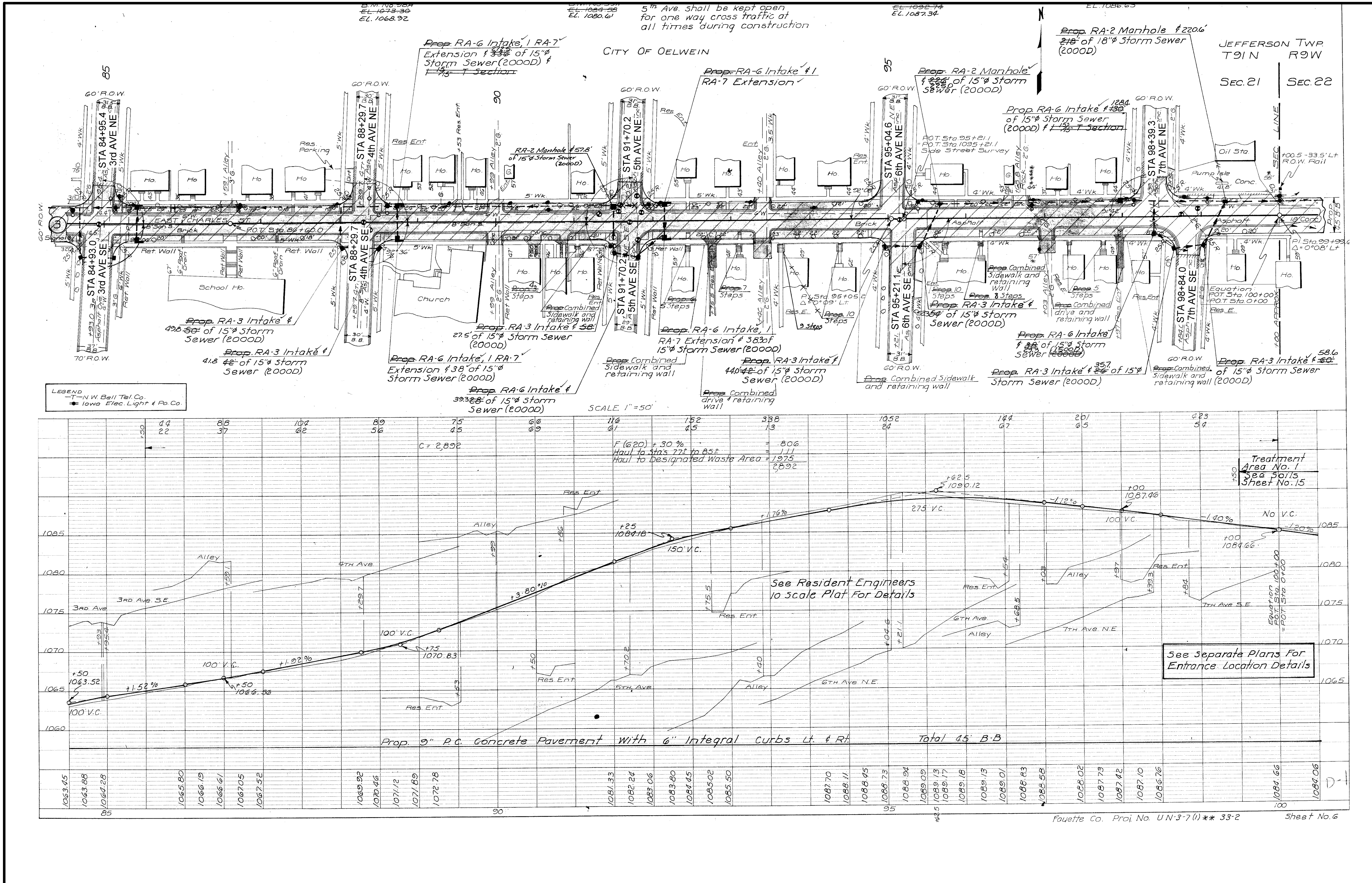

FILE NO. -	ENGLISH	DESIGN TEAM KELLY/MEISE		FAYETTE COUNTY	PROJECT NUMBER NHSX-003-7(049)--3H-33	SHEET NUMBER D.8	

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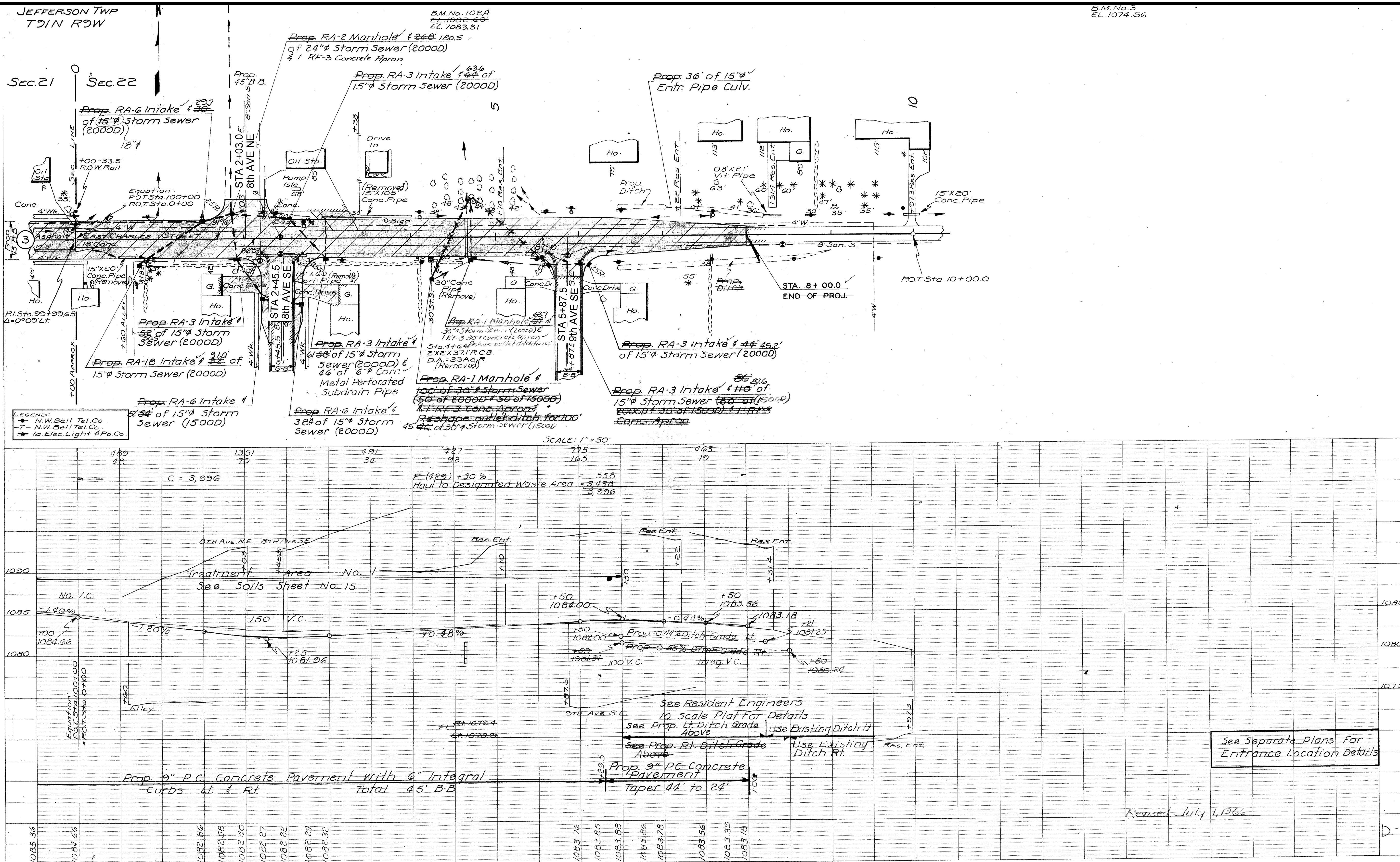

Fayette Co. Proj. No. UN-3-7(1)** 33-2 Sheet No. 7

FILE NO. -	ENGLISH	DESIGN TEAM KELLY/MEISE		FAYETTE COUNTY	PROJECT NUMBER NHSX-003-7(049)--3H-33	SHEET NUMBER D.9	

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108-23A
08-01-08

TRAFFIC CONTROL PLAN

The Contractor shall coordinate traffic control with other projects in area.
Through traffic shall be maintained at all times during construction.
Consecutive side roads connot be colosed simultaneously.
For businesses that have multiple access onto IA 3 the Contractor shall keep one access open at all times.

108-26A
08-01-08

STAGING NOTES

1) Perform patching
2) Perform diamond grinding
3) Place final pavment markings

4.

3.Crack and joint cleaning and filling.

108-25
10-21-14

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
	SB	Fayette	No restrictions expected									

111-01
04-17-12

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 pre-con	