

WORTH CO.
HMA RESURFACING WITH MILLING
STPN-065-9(21)--2J-98 & STPN-065-9(24)--2J-98

LETTING DATE
 12/20/2022

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* D.2 - 18	US Highway 65
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Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

URBAN ROAD SYSTEM CITY OF NORTHWOOD

HMA RESURFACING WITH MILLING

Co Rd 105 in Northwood
to UP Railroad

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.



MILEAGE SUMMARY			
		105-1	
		09-27-94	
Div.	Location	Lin. Ft.	Miles
1	US Highway 65 HMA Overlay Sta. 2944+15.84 to 3001+63.13	5747.29	1.089
	Total HMA Overlay Length	5747.29	1.089
2	ADA Improvements Sta. 923+65.97 to 950+72.07 Sta. 1943+02.62 to 1950+64.78 Sta. 2943+79.05 to 2970+95.05	2706.10 762.16 2716.00	0.513 0.144 0.514
	Total ADA Improvements Length	6184.26	1.171

Project Location Map on Sheet A.2

DESIGN DATA URBAN

2020 AADT 3900 V.P.D.
 2040 AADT 4200 V.P.D.
 20-- DHV -- V.P.H.
 TRUCKS 15 %
 Total
 Design ESALs --

REVISIONS

TOTAL

126

PROJECT IDENTIFICATION NUMBER

21-98-065-010

PROJECT NUMBER

STPN-065-9(21)--2J-98

R.O.W. PROJECT NUMBER

STPN-065-9(25)--2J-98

ADA WORK PROJECT NUMBER

STPN-065-9(24)--2J-98

PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: 12/30/2021

FILE NO.

ENGLISH

DESIGN TEAM

WHKS & CO.

WORTH COUNTY

PROJECT NUMBER

STPN-065-9(21)--2J-98 & STPN-065-9(24)--2J-98

SHEET NUMBER

A.1

65

S48

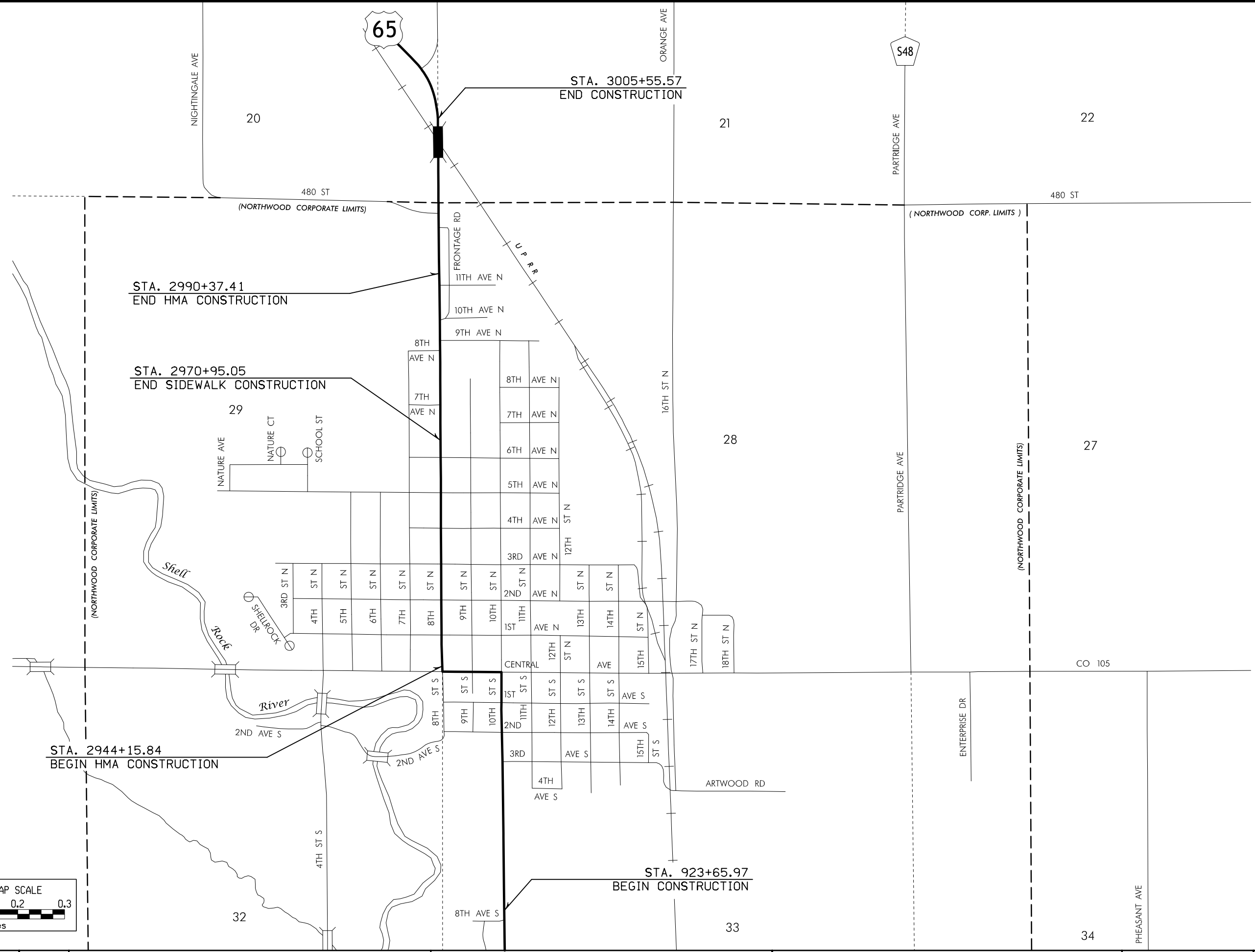
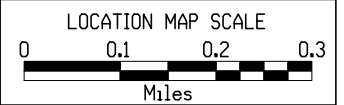
STA. 3005+55.57
END CONSTRUCTION

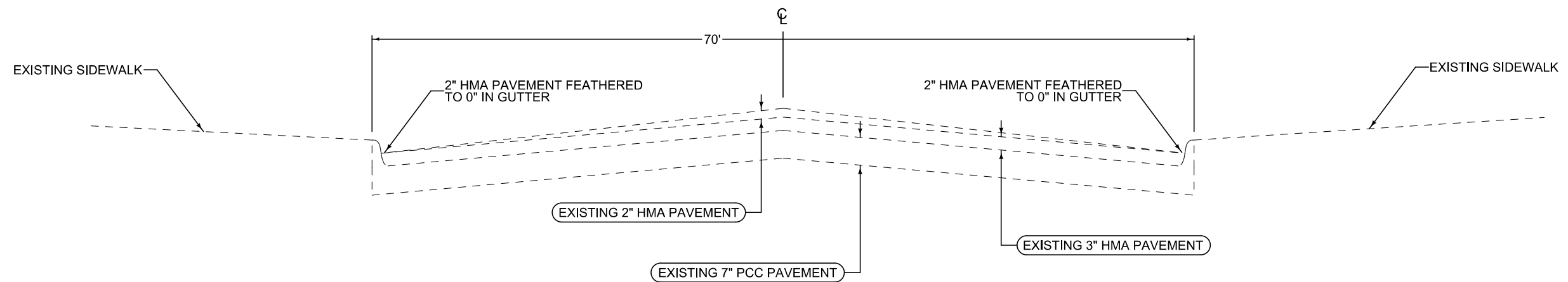
STA. 2990+37.41
END HMA CONSTRUCTION

STA. 2970+95.05
END SIDEWALK CONSTRUCTION

STA. 2944+15.84
BEGIN HMA CONSTRUCTION

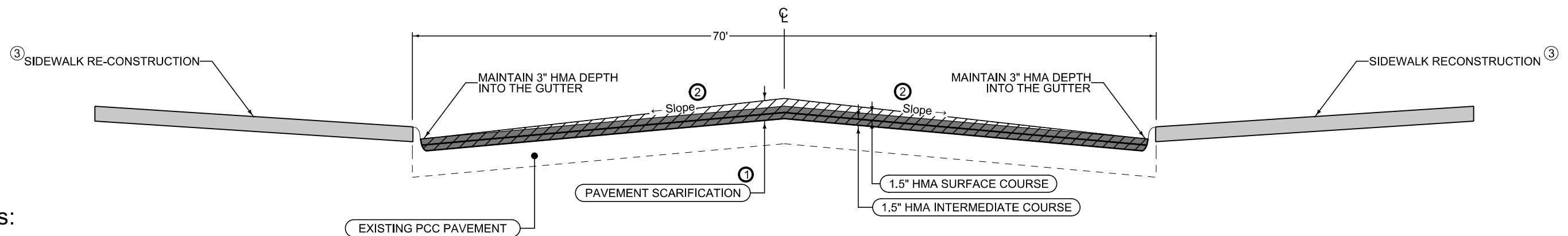
STA. 923+65.97
BEGIN CONSTRUCTION





Refer to Tabs. 102-5 and 102-5A on the C Sheets for additional existing pavement information

Existing
US 65 - Segment 1
Sta. 2944+15.84 - Sta. 2947+60.00
Central Ave. to 1st Avenue N.



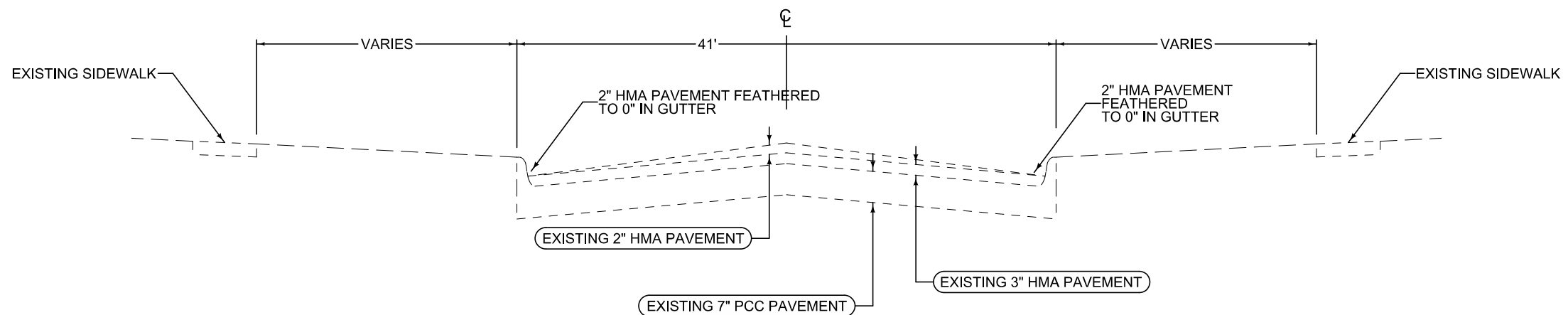
Notes:

Refer to Tab 104-9 for Longitudinal Subdrain quantities.

- ① Scarify all existing HMA to existing concrete. Payment for Pavement Scarification shall be in Square Yards. Depth of existing HMA shown in the existing typical section is approximate and no additional payment shall be made if more HMA depth is required for removal.
- ② Match finished slope to existing pavement, except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Contractor may be required to mill existing pavement to achieve min/max cross slope, which would be incidental to pavement scarification. Section may be modified as directed by the Engineer through areas of special shaping.
- ③ Refer to B Sheets, D Sheets and S Sheets for additional details of sidewalk reconstruction.

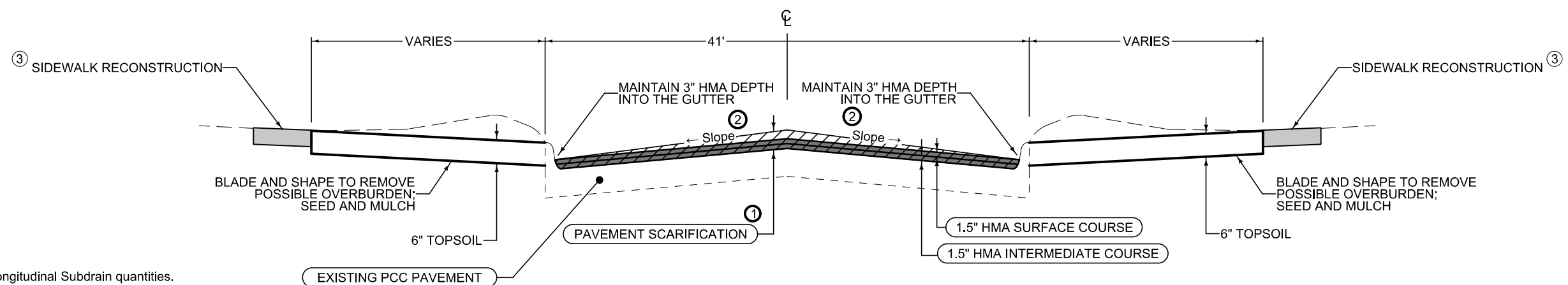
3R_Overlay_04-19-11			
STATION TO STATION	(C) Feet	(L) Feet	(R) Feet

Proposed
US 65 - Segment 1
Sta. 2944+15.84 - Sta. 2947+60.00
Central Ave. to 1st Avenue N.



Refer to Tabs. 102-5 and 102-5A on the C Sheets for additional existing pavement information

**Existing
US 65 - Segment 2
Sta. 2947+60.00 - Sta. 2963+53.56
1st Avenue N. to 5th Avenue N.**



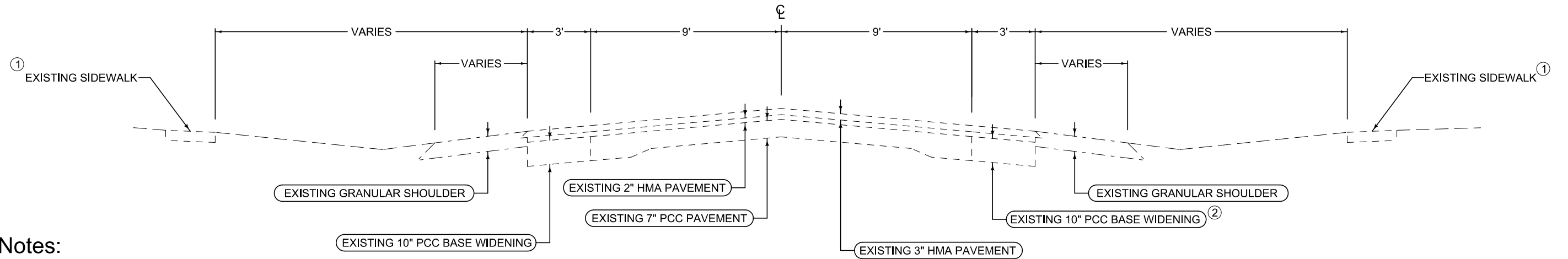
Notes:

Refer to Tab 104-9 for Longitudinal Subdrain quantities.

- ① Scarify all existing HMA to existing concrete. Payment for Pavement Scarification shall be in Square Yards. Depth of existing HMA shown in the existing typical section is approximate and no additional payment shall be made if more HMA depth is required for removal.
- ② Match finished slope to existing pavement, except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Contractor may be required to mill existing pavement to achieve min/max cross slope, which would be incidental to pavement scarification. Section may be modified as directed by the Engineer through areas of special shaping.
- ③ Refer to B Sheets, D Sheets and S Sheets for additional details of sidewalk reconstruction.

3R_Overlay_ 04-19-11			
STATION TO STATION	(C) Feet	(L) Feet	(R) Feet

**Proposed
US 65 - Segment 2
Sta. 2947+60.00 - Sta. 2963+53.56
1st Avenue N. to 5th Avenue N.**

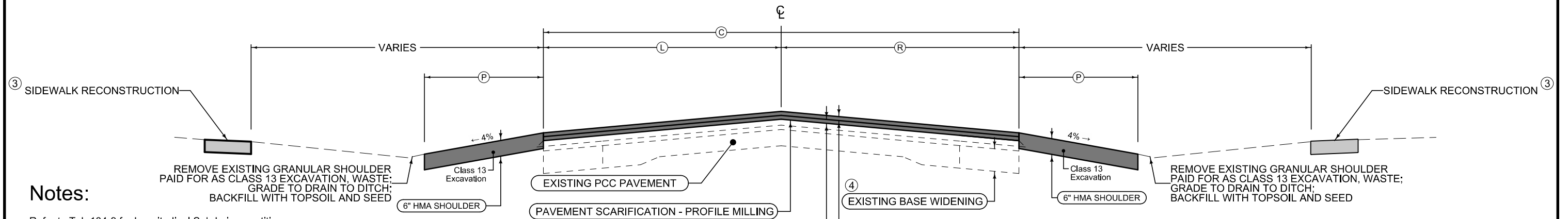


Notes:

- ① Sidewalk not located along entire corridor; Refer to D Sheet and S Sheets for locations
- ② Possible Base Widening Reconstruction included with Patching quantities. Existing base widening on both sides of road.

Refer to Tabs. 102-5 and 102-5A on the C Sheets for additional existing pavement information

**Existing
US 65 - Segment 3
Sta. 2963+53.56 - Sta. 2990+37.41
5th Avenue N. to End of Project**



Notes:

Refer to Tab 104-9 for Longitudinal Subdrain quantities.

- ① Profile mill existing HMA to provide cross slope for drainage and surface correction. Payment for Pavement Scarification shall be in Square Yards. Depth of existing HMA shown in the existing typical section is approximate and no additional payment shall be made if more HMA depth is required for removal.
- ② Match finished slope to existing pavement, except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Contractor may be required to mill existing pavement to achieve min/max cross slope, which would be incidental to pavement scarification. Section may be modified as directed by the Engineer through areas of special shaping.
- ③ Refer to B Sheets, D Sheets and S Sheets for additional details and locations of sidewalk reconstruction.
- ④ Possible Base Widening Reconstruction included with Patching quantities. Existing base widening on both sides of road.

HMA Shoulder

Shoulder Jointing:
Longitudinal joint: B

3R_Shldr_Paved_04-19-11	
STATION TO STATION	(P) Feet
	6
	6

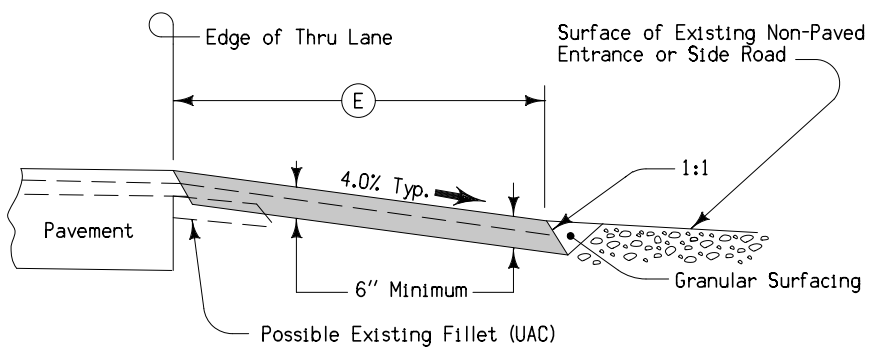
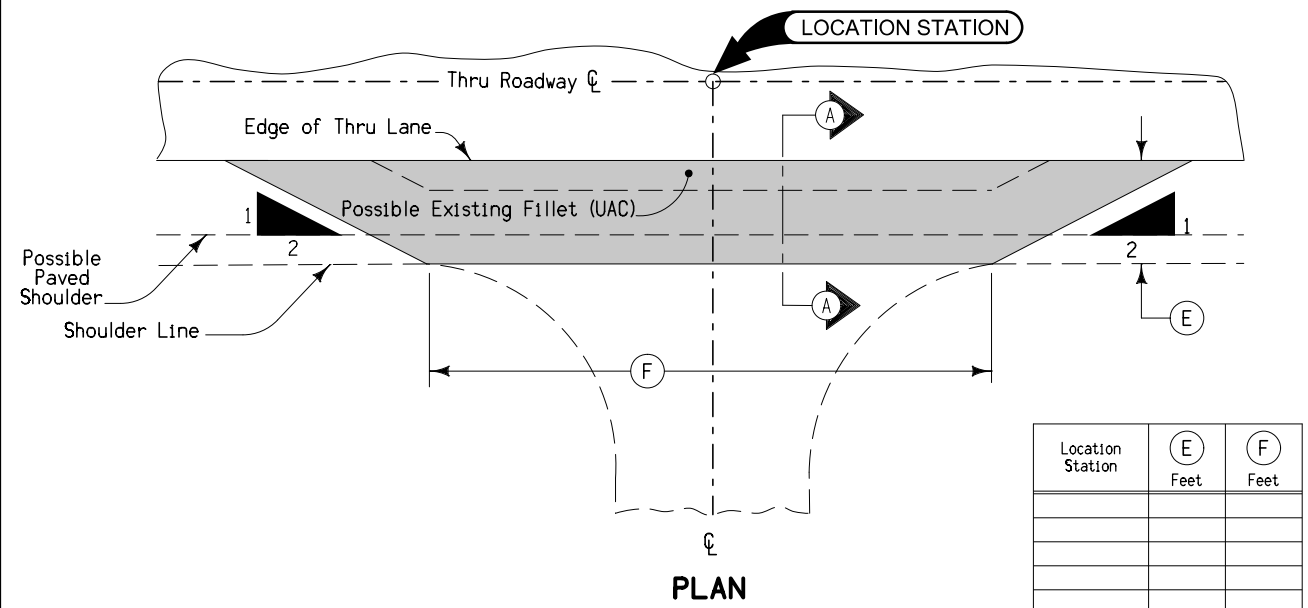
3R_Overlay_04-19-11			
STATION TO STATION	(C) Feet	(L) Feet	(R) Feet
	24	12	12
	24	12	12

HMA Shoulder

Shoulder Jointing:
Longitudinal joint: B

3R_Shldr_Paved_04-19-11	
STATION TO STATION	(P) Feet
	6
	6

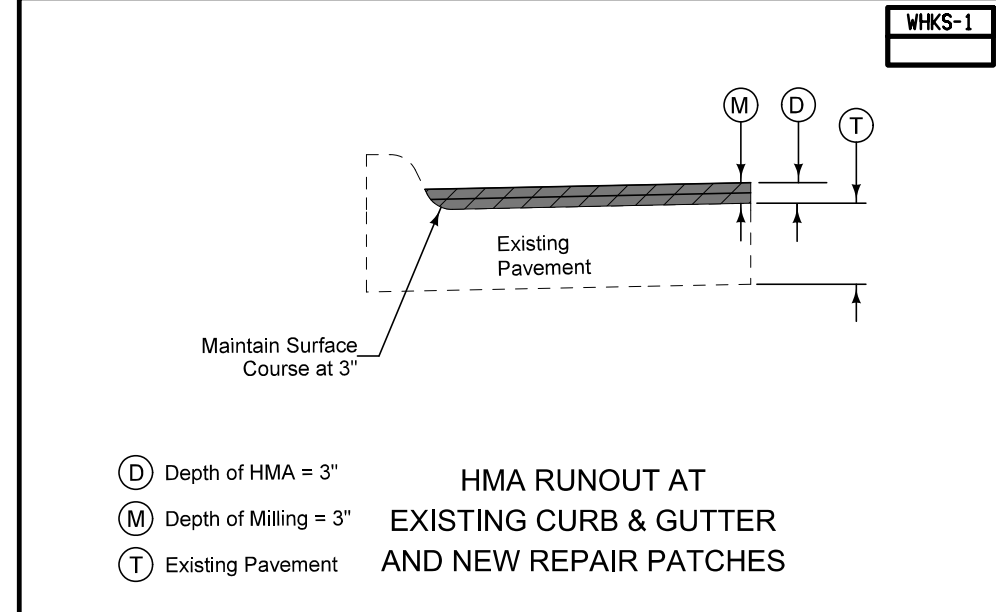
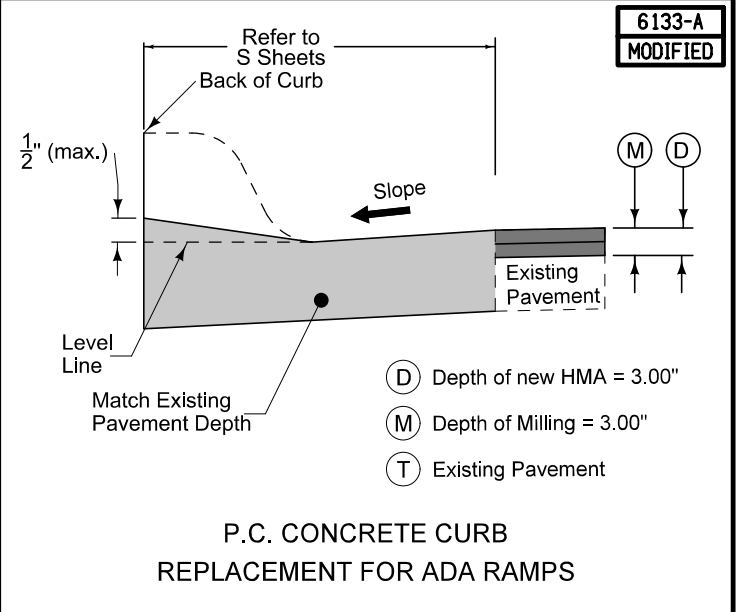
**Existing
US 65 - Segment 3
Sta. 2963+53.56 - Sta. 2990+37.41
5th Avenue N. to End of Project**

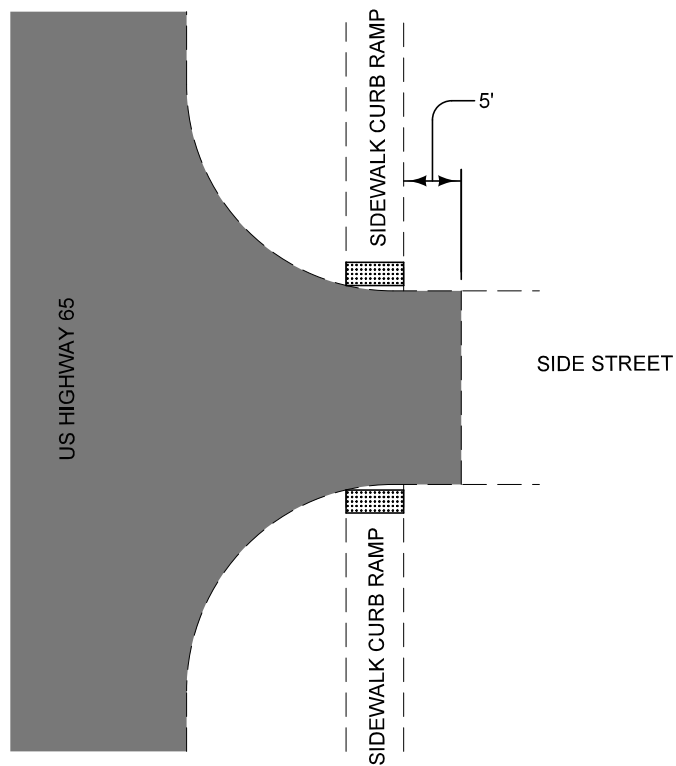


Special shaping of existing surface prior to placement of fillet may be required by the Engineer and is incidental to other work on the project.
Quantities included with mainline quantities.

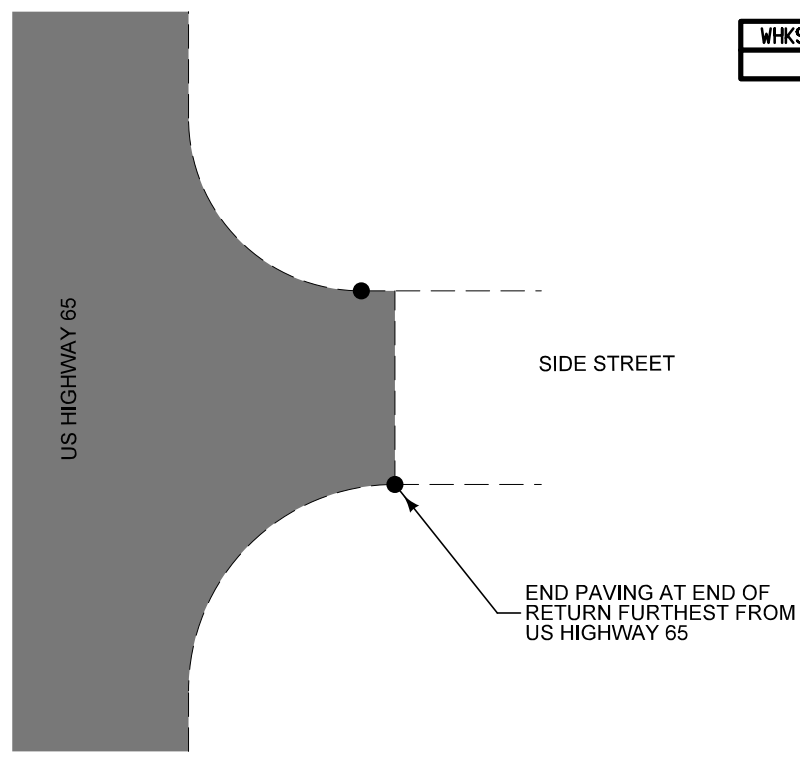
SECTION A-A

FILLET FOR NON-PAVED ENTRANCES OR SIDE ROADS



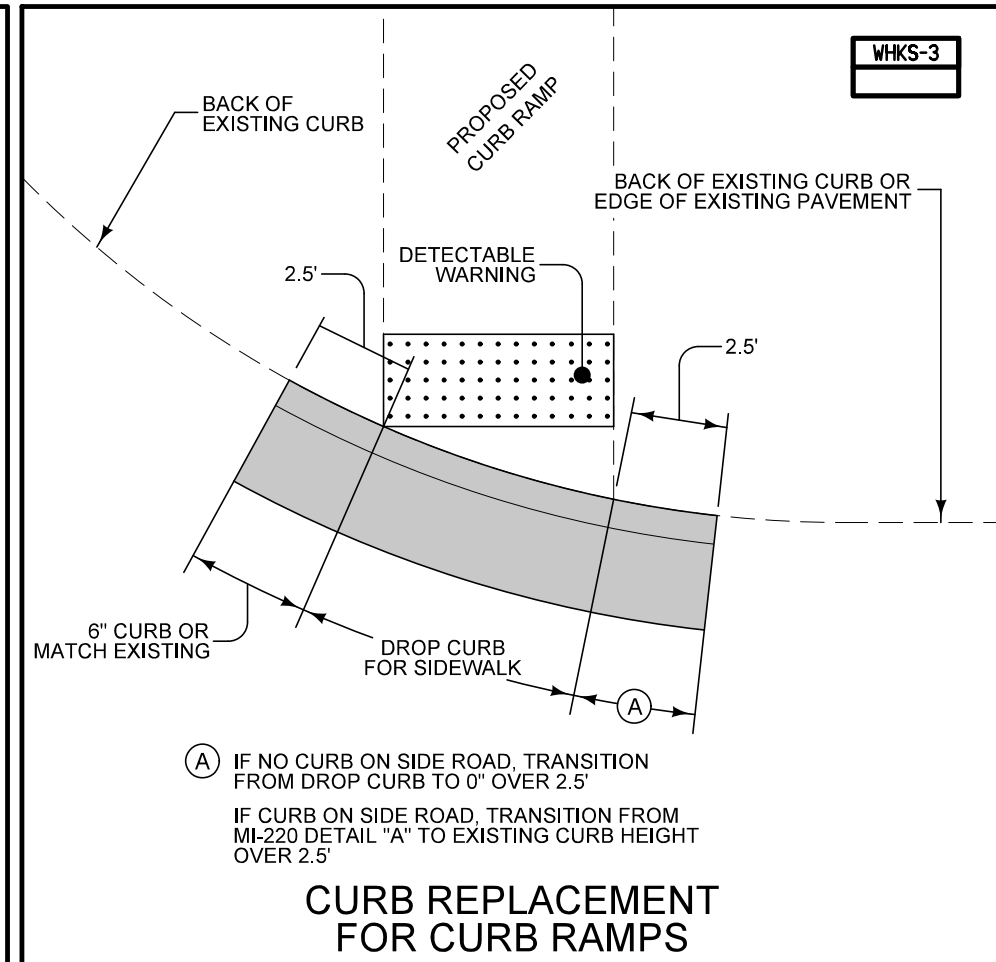


With Sidewalk Curb Ramps



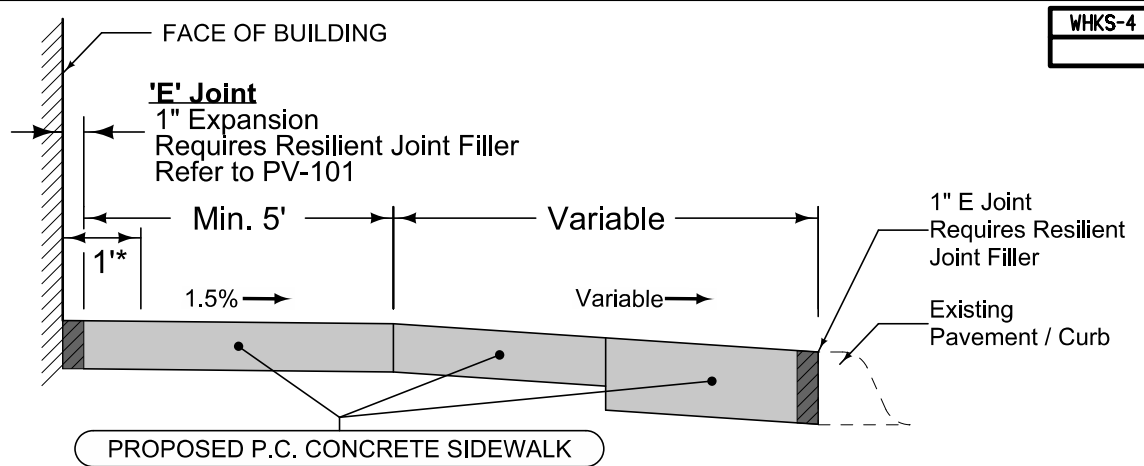
Without Sidewalk Curb Ramps

Side Road Paving Limits



(A) IF NO CURB ON SIDE ROAD, TRANSITION FROM DROP CURB TO 0" OVER 2.5'
 IF CURB ON SIDE ROAD, TRANSITION FROM MI-220 DETAIL "A" TO EXISTING CURB HEIGHT OVER 2.5'

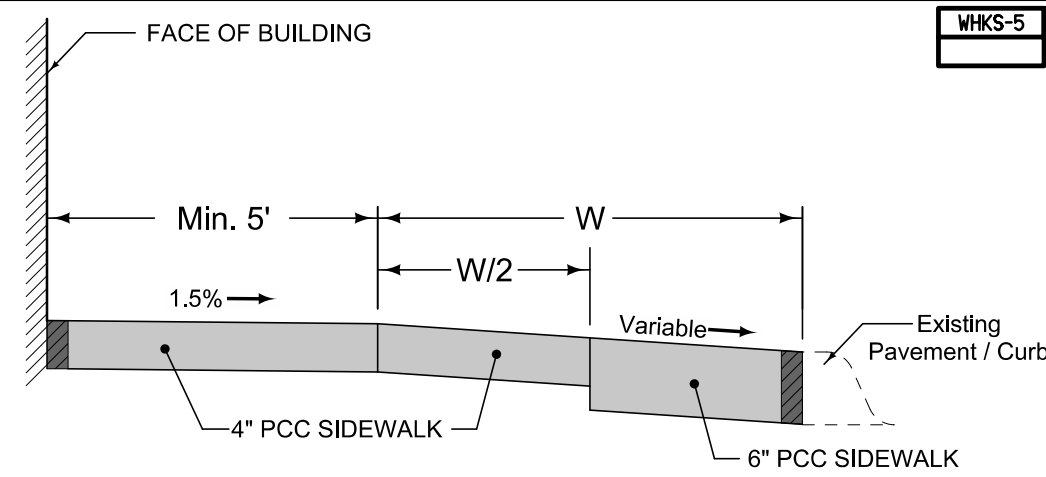
CURB REPLACEMENT FOR CURB RAMPS



* Note: When removing existing sidewalk against the face of a building, make sawcut 1-ft away from face of building and remove 1-ft area up against the building by hand. Contractor is to protect buildings from damage and dust, dirt, slurry, etc. Contractor is to clean buildings if protections are not adequate to keep buildings clean.

Refer to D Sheets and S Sheets for details.

DOWNTOWN SIDEWALK DETAILS



Cross slope shall be the same over entire width "W"

STATION TO STATION	(W) Feet	(W/2) Feet

DOWNTOWN SIDEWALK PAVEMENT DEPTH DETAILS

100-1D
10-18-05

PROJECT DESCRIPTION

This project involves milling and resurfacing with HMA in the city of Northwood from the junction with County Road 105 to the north corporate limits and adding paved shoulders from the north corporate limits to the bridge over the Union Pacific Railroad.

The ADA sidewalk project involves the installation and/or replacement of sidewalks and sidewalk ramps adjacent to US 65 within the City of Northwood.

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	Type	Depth	Type	Depth	Type	Depth	Type	Depth	Source			Type	Durability Class	Type
1	98	US 65	1	217.1	217.99	1927		555A	PC7	7							Mason City	Gravel						
1	98	US 65	1	217.48	217.99	1958	W	1047(1)	PCC	10							N/A				3' Widening Units			
1	98	US 65	1	217.1	217.99	1961		1047(2)	HMA	3							Hanson	Cr. Lstone						
7	98	US 65	1	217.1	217.99	1999		MP-65-2(701)217--76-98	HMA	2											Feathered to 0" at Curb & Gutter			

102-5A
10-20-15

EXISTING HMA PAVEMENT FOR RECYCLING

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							

SURVEY SYMBOLS

- LIN Miscellaneous Line
- IN Storm Sewer Intake
- PIP Pipe Culvert
- MH Utility Access (Manhole)
- MIS Miscellaneous
- CON Concrete or A/C Slab
- BL Topo Breakline
- ST1D Storm Sewer Co. 1 - Quality D
- D Centerline Draw or Stream (Down)
- DU Centerline Draw or Stream (Up)
- ENU Edge Unpaved Entrance & Parking
- ENT Centerline BL of Entrance
- CU Back of Curb
- GU Gutter In Front of Curb
- TDC Tree Deciduous
- SNP Unpaved Shoulder
- WV Water Valve
- FHD Fire Hydrants
- ENP Edge Paved Entrance & Park Lot
- PPA Power Pole Co. 1
- PR Electric Riser Pole
- ROW Right of Way Mark
- LUM Luminaire
- SI Sign
- FW Wire Fence
- SWK Sidewalk
- C Centerline BL of Road (ML or SR)
- EP Edge of Paved Roads (ML or SR)
- EG Edge of Gravel Road
- G GL1D Gas Line Co. 1 - Quality D
- INB Storm Sewer Beehive Intake
- UB Utility Box
- W WL1D Water Line Co. 1 - Quality D
- F0 F01D Fiber Optic Co. 1 - Quality D
- TV TV1D TV Cable Co. 1 - Quality D
- T1 TL1D Telephone Line Co. 1 - Quality D
- T2 TL2D Telephone Line Co. 2 - Quality D

UTILITY LEGEND

- Alliant Energy
Randy Cink
1035 43rd Street SW
Mason City, IA 50401
800-255-4268
RandyCink@alliantenergy.com
- St.S. City of Northwood
Dirk Van Ryswyk
627 Central Ave.
Northwood, IA 50459
641-324-1190
dvanryswyk@hotmail.com
- W City of Northwood
Dirk Van Ryswyk
627 Central Ave.
Northwood, IA 50459
641-324-1190
dvanryswyk@hotmail.com
- G Alliant Energy
Randy Cink
1035 43rd Street SW
Mason City, IA 50401
800-255-4268
RandyCink@alliantenergy.com
- F0 Winnebago Telephone
Neal Sletten
704 E Main St.
Lake Mills, IA 50450
641-592-6105
NealSletten@WCTAtel.com
- T1 Winnebago Telephone
Neal Sletten
704 E Main St.
Lake Mills, IA 50450
641-592-6105
NealSletten@WCTAtel.com
- TV Mediacom
Bob Stalker
473 Indianhead Dr. Suite 105
Mason City, IA 50401
641-430-0748
rstalker@mediacomcc.com
- T2 Mediacom
Bob Stalker
473 Indianhead Dr. Suite 105
Mason City, IA 50401
641-430-0748
rstalker@mediacomcc.com

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING		
Design Color No.		
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed PCC Pavement Shading
Gray, Med	(80)	Proposed HMA Pavement Shading
Gray, Dark	(112)	Proposed HMA Shoulder Shading
Brown, Light	(236)	Proposed Sidewalk Special Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

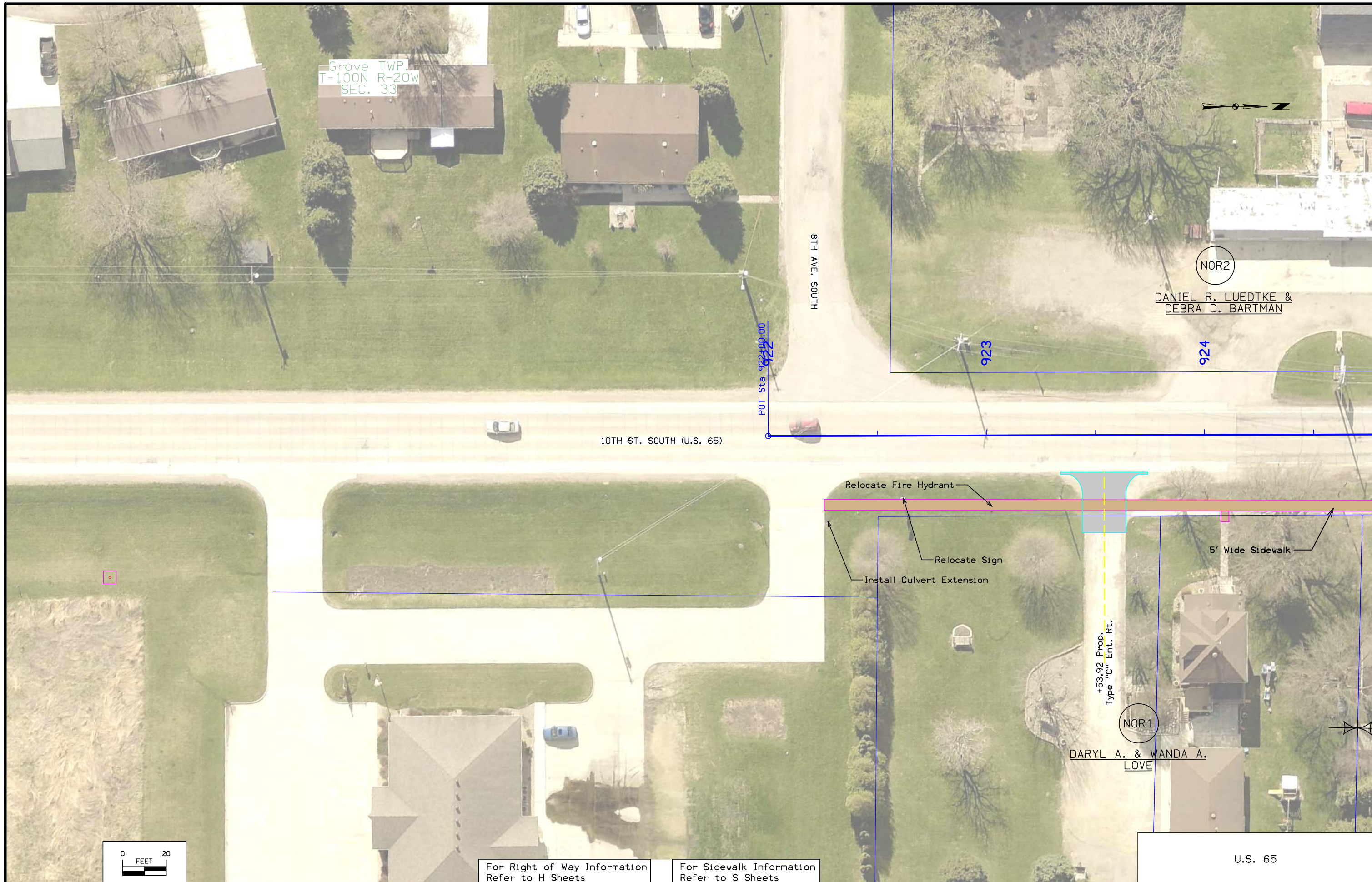
- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- Access Control
- Property Line

**PLAN AND PROFILE
LEGEND AND SYMBOL
INFORMATION SHEET**

(COVERS SHEET SERIES D, E, F, & K)



Grove TWP.
T-100N R-20W
SEC. 33

8TH AVE. SOUTH

NOR2
DANIEL R. LUEDTKE &
DEBRA D. BARTMAN

10TH ST. SOUTH (U.S. 65)

Relocate Fire Hydrant

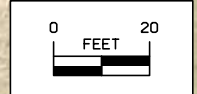
Relocate Sign

Install Culvert Extension

5' Wide Sidewalk

+53.92 Prop.
Type "C" Ent. Rt.

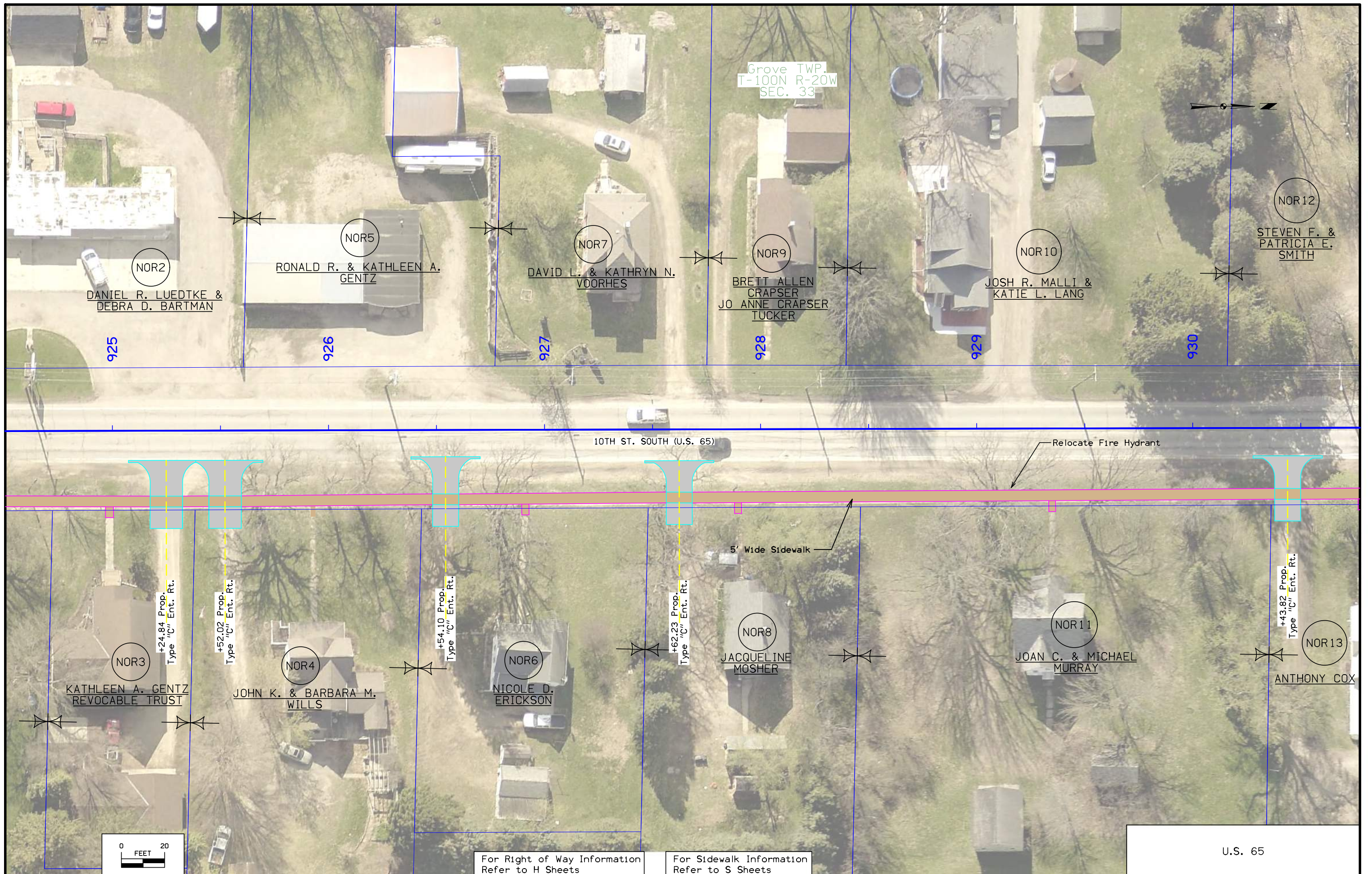
NOR1
DARYL A. & WANDA A.
LOVE



For Right of Way Information
Refer to H Sheets

For Sidewalk Information
Refer to S Sheets

U.S. 65



Grove TWP.
T-100N R-20W
SEC. 33



10TH ST. SOUTH (U.S. 65)

Relocate Fire Hydrant

5' Wide Sidewalk

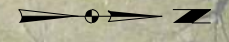


For Right of Way Information
Refer to H Sheets

For Sidewalk Information
Refer to S Sheets

U.S. 65

Grove TWP.
T-100N R-20W
SEC. 33



12
F. &
A. E.
TH

NOR12

STEVEN F. & PATRICIA E.
SMITH

NOR17

JEROME R. & LINDA S.
WOOLM

931

932

933

934

935

936

Utility Box Conflict

10TH ST. SOUTH (U.S. 65)

Utility Box Conflict

Install Concrete Steps
in Private Sidewalk

Utility Box Conflict

Install Handrail and
Concrete Flume

5' Wide Sidewalk

NOR13

NOR13

ANTHONY COX

ONY COX

+11.17 Prop.
Type "C" Ent. Rt.

+45.02 Prop.
Type "C" Ent. Rt.

NOR14

STUART O. & KIMBERLY L.
ANDERSON

NOR15

TEREZIA VASAS
BEHNE

+55.54 Prop.
Type "C" Ent. Rt.

NOR16

JOEL R. & KRISTINE M.
GORDON

+61.02 Prop.
Type "C" Ent. Rt.

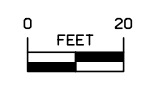
NOR18

TINA R.
COLLINS

+99.76 Prop.
Type "C" Ent. Rt.

+59.10 Prop.
Type "C" Ent. Rt.

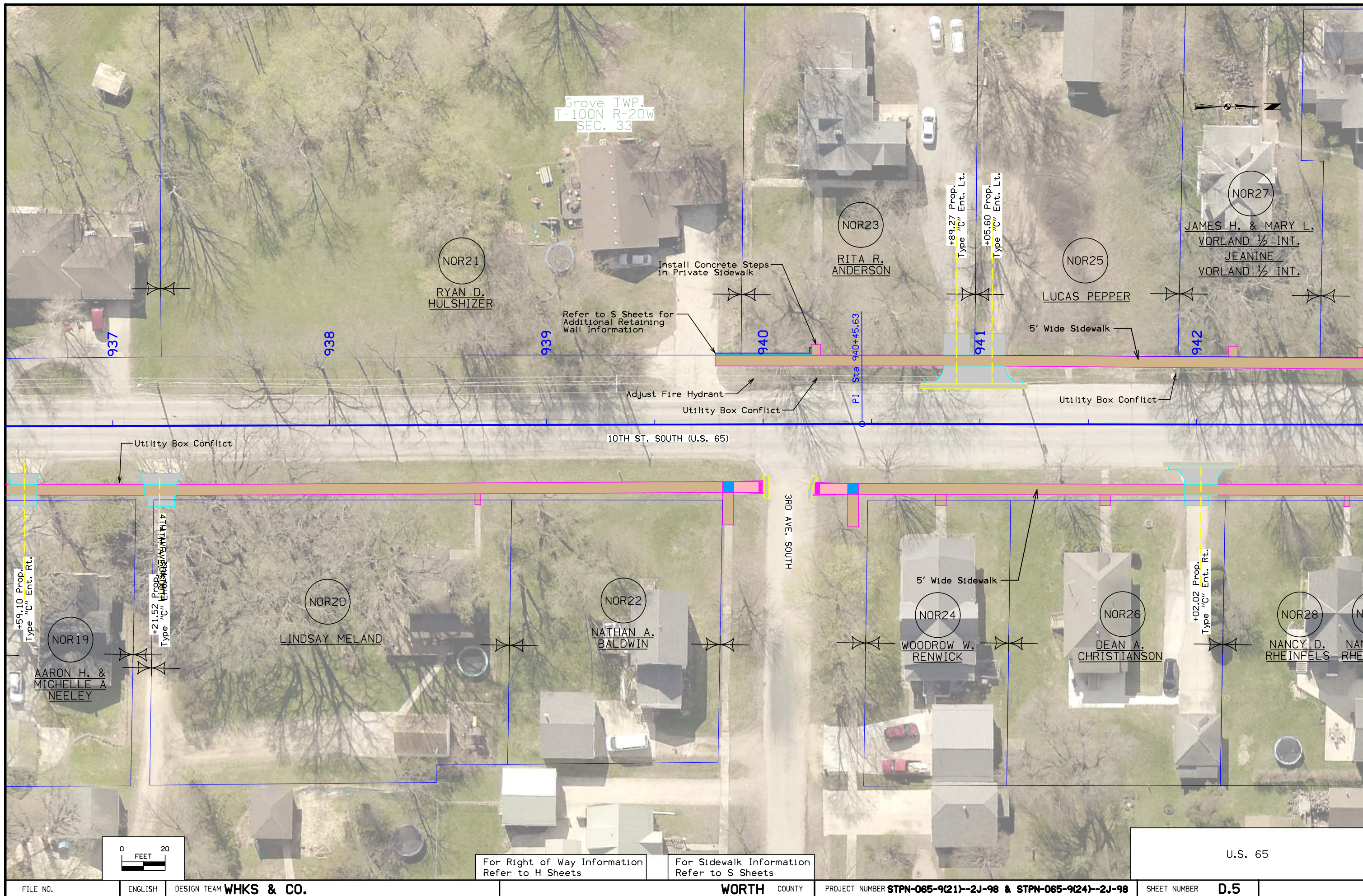
AARO
MICH
NE



For Right of Way Information
Refer to H Sheets

For Sidewalk Information
Refer to S Sheets

U.S. 65



Grove TWP.
T-100N R-20W
SEC. 33

NOR21
RYAN D.
HULSHIZER

NOR23
RITA R.
ANDERSON

NOR27
JAMES H. & MARY L.
VORLAND 1/2 INT.
JEANINE
VORLAND 1/2 INT.

NOR25
LUCAS PEPPER

Refer to S Sheets for
Additional Retaining
Wall Information

Adjust Fire Hydrant
Utility Box Conflict

Utility Box Conflict

10TH ST. SOUTH (U.S. 65)

3RD AVE. SOUTH

+59.10 Prop.
Type "C" Ent. Lt.

+21.52 Prop.
Type "C" Ent. Lt.

NOR19
AARON H. &
MICHELLE A
NEELEY

NOR20
LINDSAY MELAND

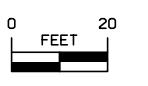
NOR22
NATHAN A.
BALDWIN

NOR24
WOODROW W.
RENWICK

NOR26
DEAN A.
CHRISTIANSON

+02.02 Prop.
Type "C" Ent. Lt.

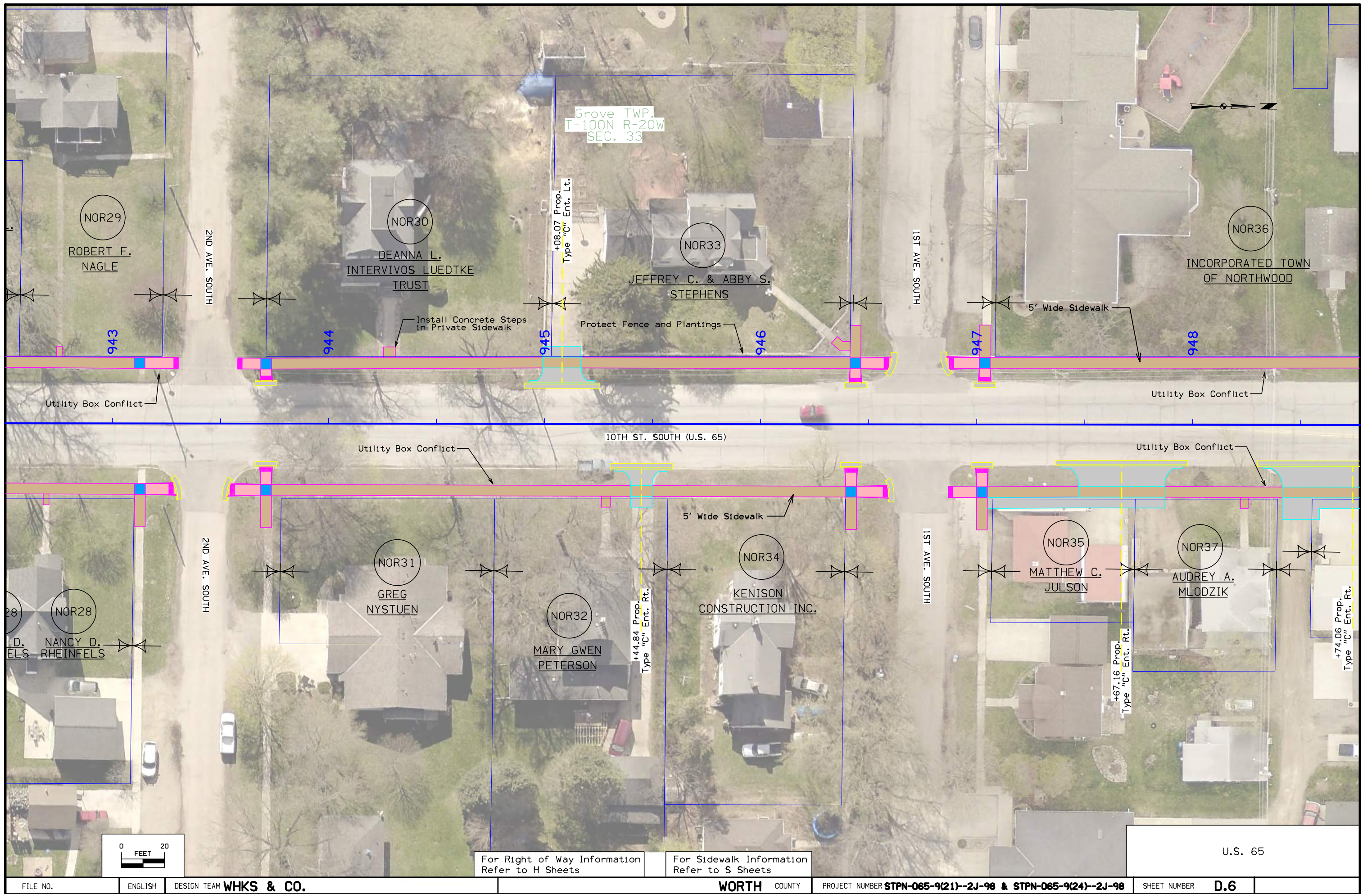
NOR28
NANCY D.
RHEINFELS



For Right of Way Information
Refer to H Sheets

For Sidewalk Information
Refer to S Sheets

U.S. 65



Grove TWP.
T-100N R-20W
SEC. 33

NOR29
ROBERT F.
NAGLE

NOR30
DEANNA L.
INTERVIVOS LUEDTKE
TRUST

NOR33
JEFFREY C. & ABBY S.
STEPHENS

NOR36
INCORPORATED TOWN
OF NORTHWOOD

2ND AVE. SOUTH

1ST AVE. SOUTH

5' Wide Sidewalk

943

944

945

946

947

948

Utility Box Conflict

Utility Box Conflict

10TH ST. SOUTH (U.S. 65)

Utility Box Conflict

Utility Box Conflict

5' Wide Sidewalk

NOR28
D. NANCY D.
ELS RHEINFELS

NOR31
GREG
NYSTUEN

NOR32
MARY GWEN
PETERSON

NOR34
KENISON
CONSTRUCTION INC.

NOR35
MATTHEW C.
JULSON

NOR37
AUDREY A.
MLODZIK

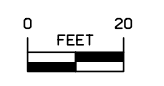
2ND AVE. SOUTH

1ST AVE. SOUTH

+44.84 Prop.
Type "C" Ent. Rt.

+67.16 Prop.
Type "C" Ent. Rt.

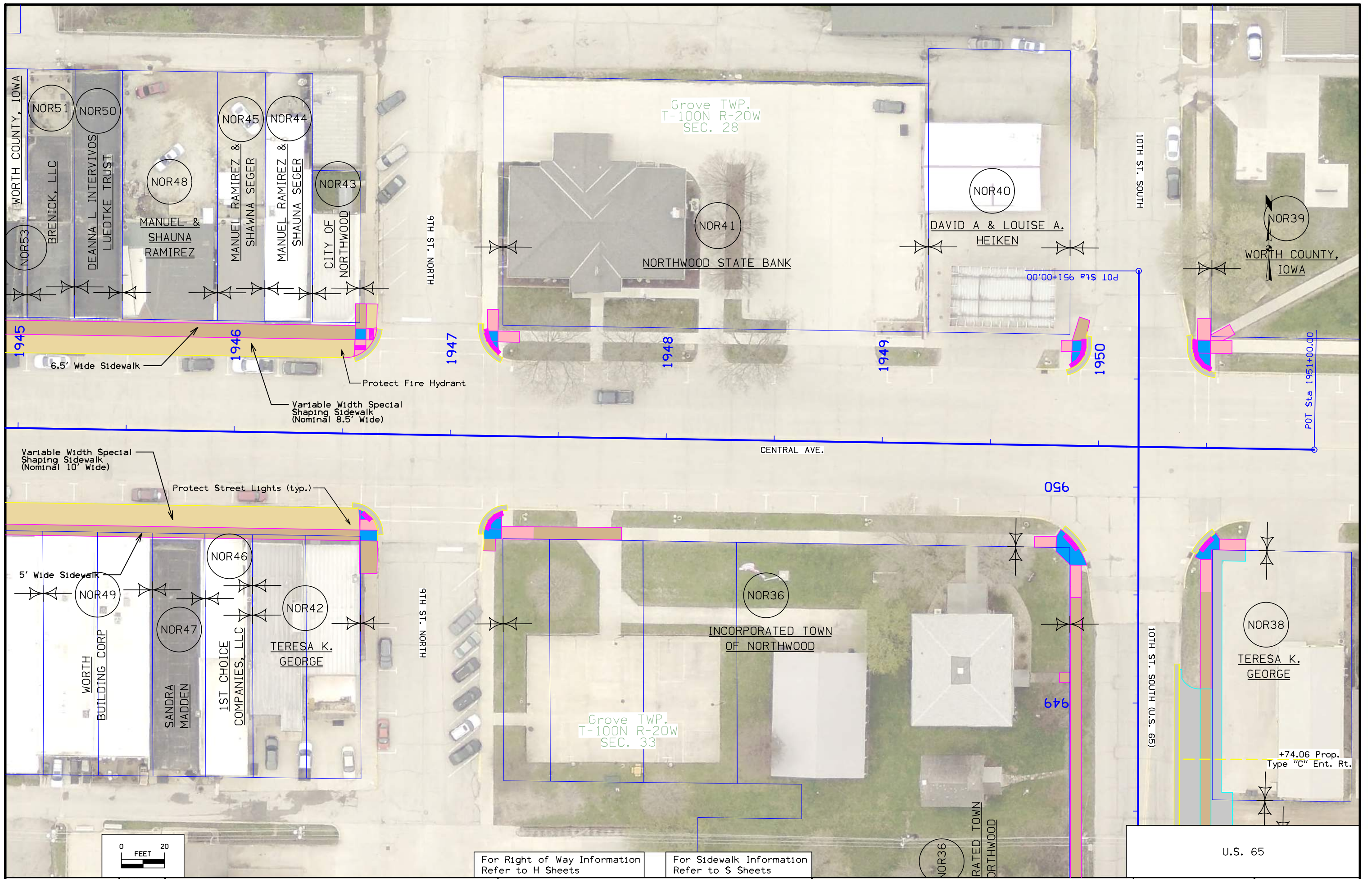
+74.06 Prop.
Type "C" Ent. Rt.



For Right of Way Information
Refer to H Sheets

For Sidewalk Information
Refer to S Sheets

U.S. 65



Grove TWP.
T-100N R-20W
SEC. 28

Grove TWP.
T-100N R-20W
SEC. 33

Variable Width Special
Shaping Sidewalk
(Nominal 10' Wide)

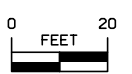
6.5' Wide Sidewalk

Variable Width Special
Shaping Sidewalk
(Nominal 8.5' Wide)

5' Wide Sidewalk

Protect Street Lights (typ.)

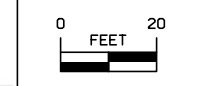
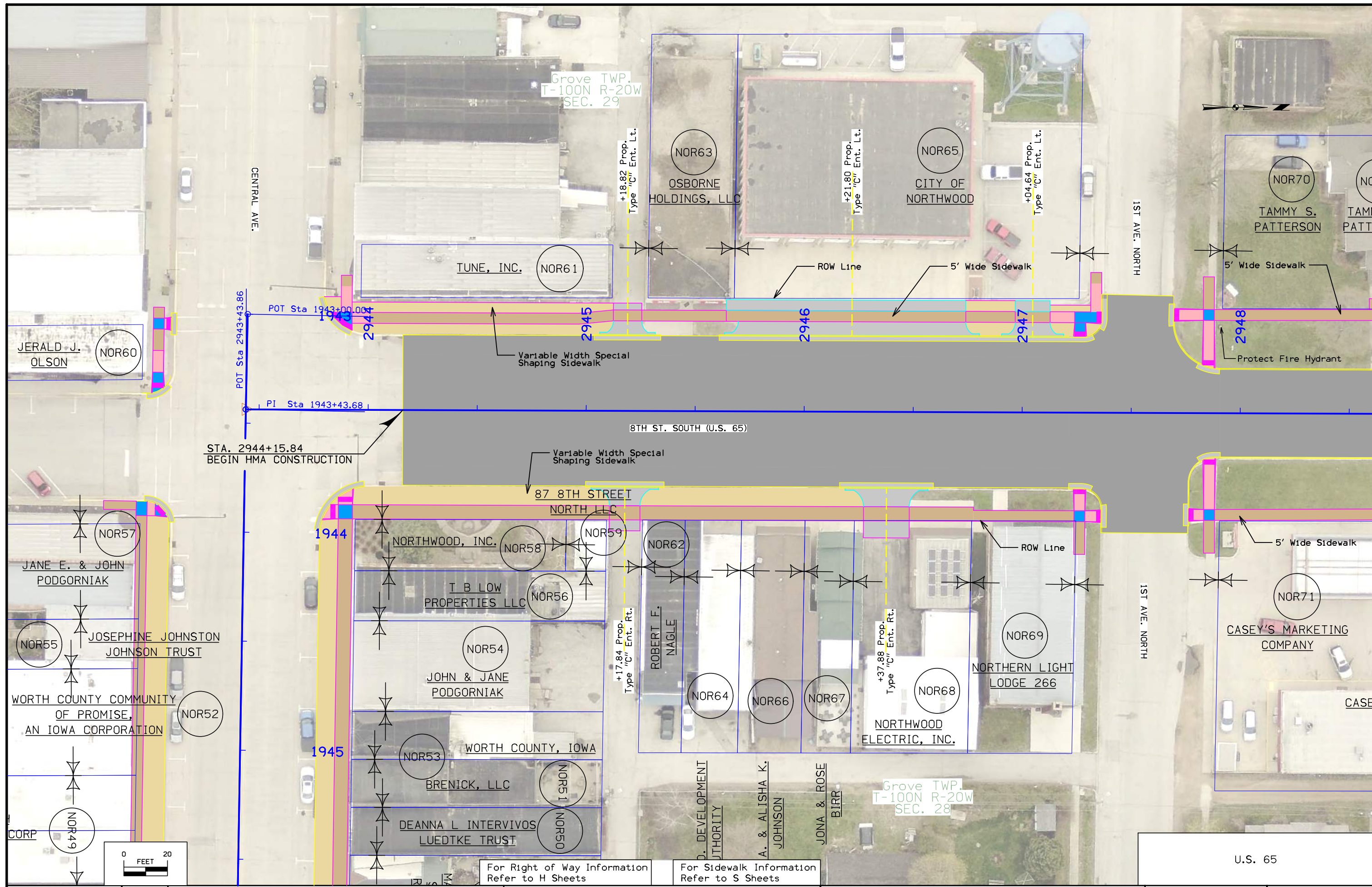
+74.06 Prop.
Type "C" Ent. Rt.



For Right of Way Information
Refer to H Sheets

For Sidewalk Information
Refer to S Sheets

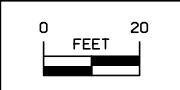
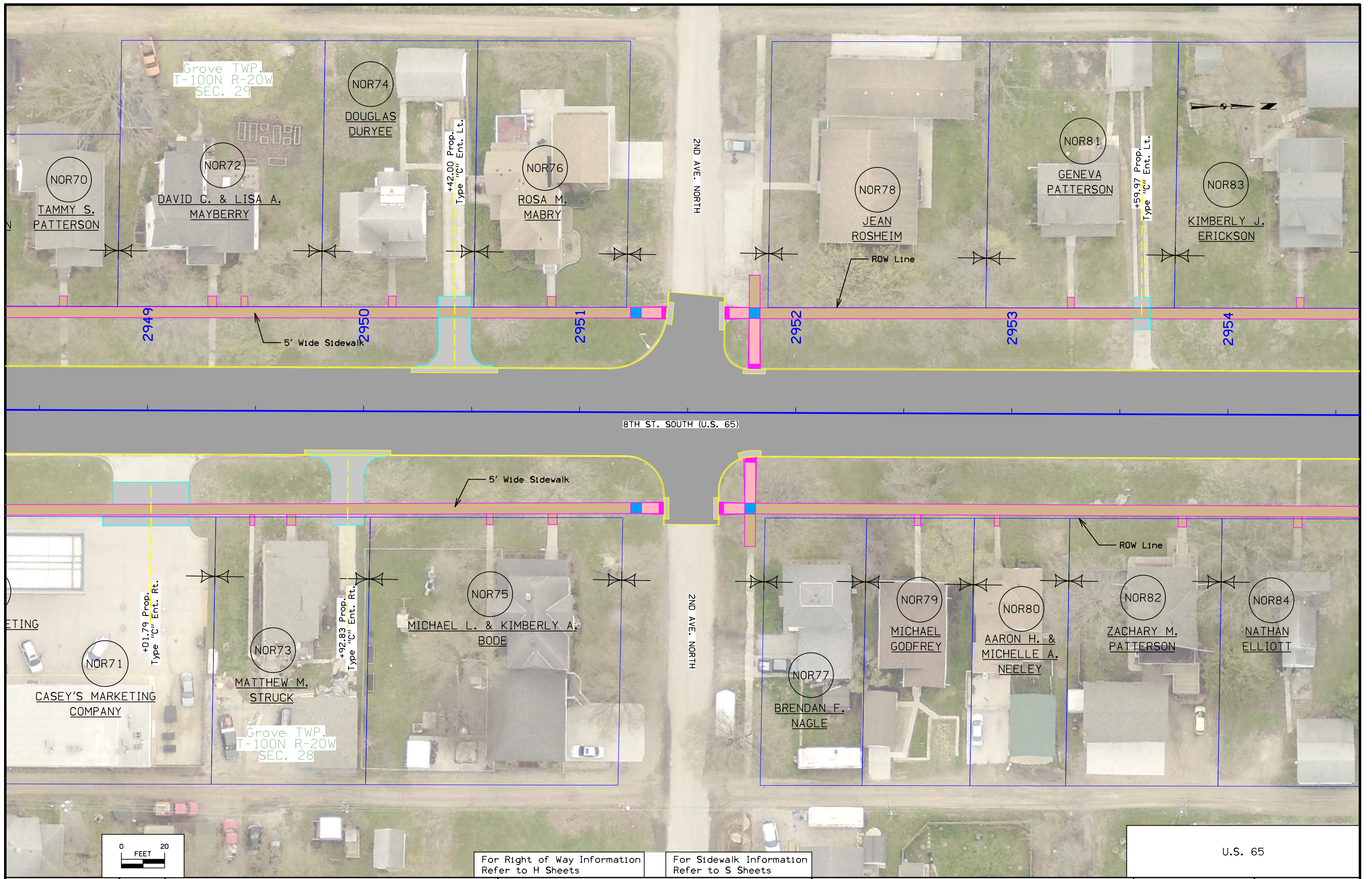
U.S. 65



For Right of Way Information Refer to H Sheets

For Sidewalk Information Refer to S Sheets

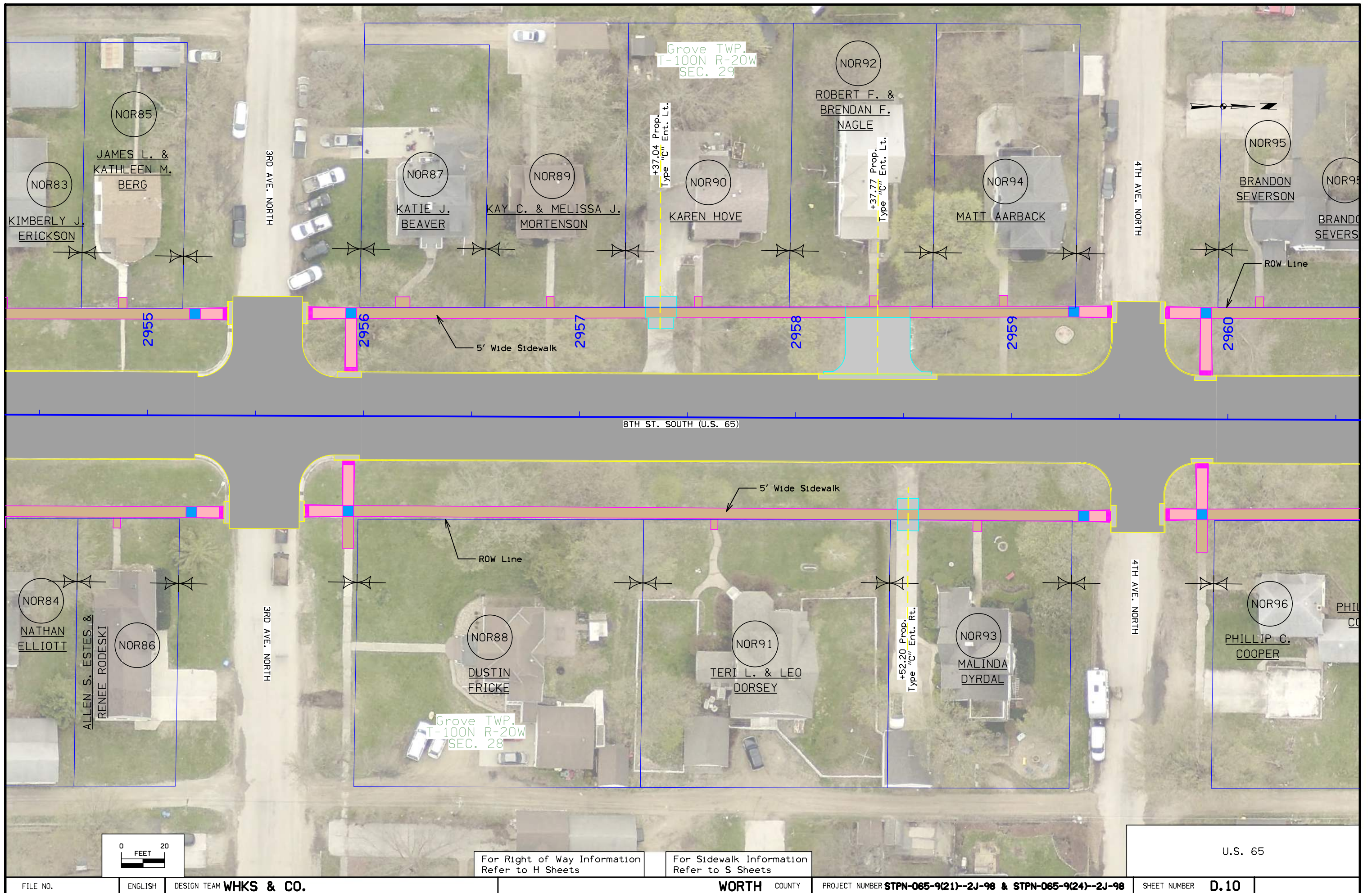
U.S. 65

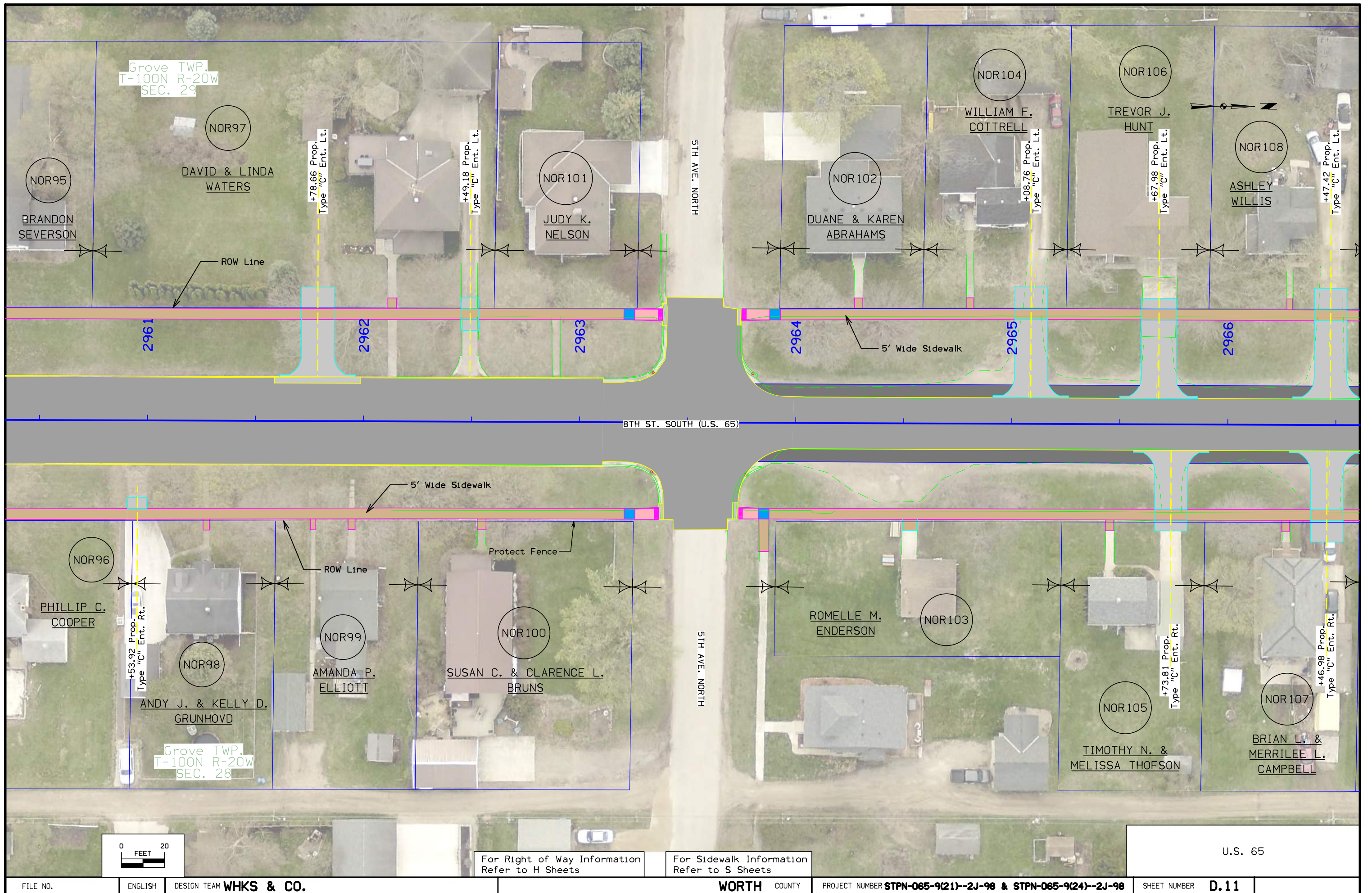


For Right of Way Information
Refer to H Sheets

For Sidewalk Information
Refer to S Sheets

U.S. 65

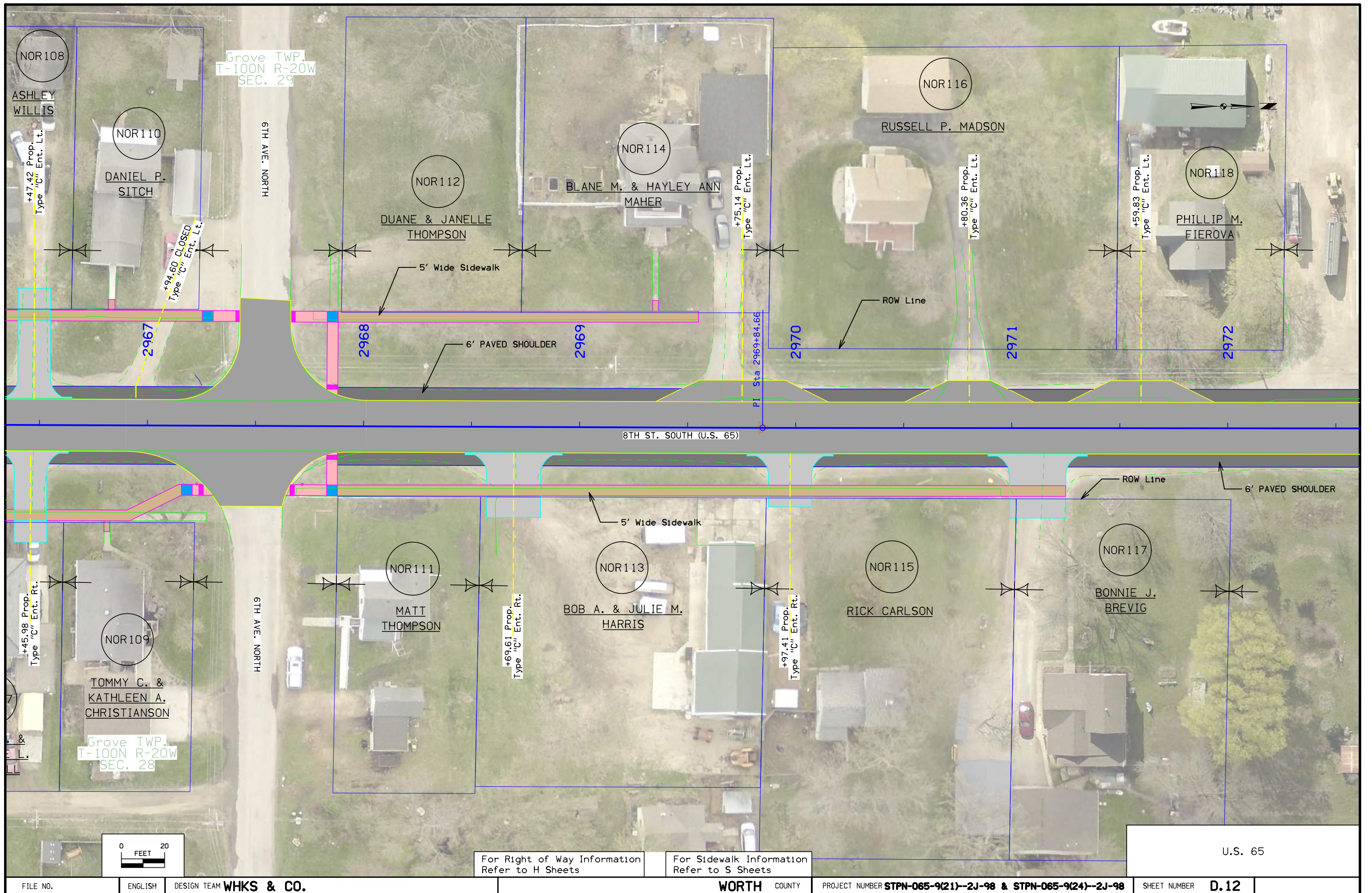




For Right of Way Information
Refer to H Sheets

For Sidewalk Information
Refer to S Sheets

U.S. 65



Grove TWP.
T-100N R-20W
SEC. 29

Grove TWP.
T-100N R-20W
SEC. 28

NOR108

NOR110

NOR112

NOR114

NOR116

NOR118

NOR111

NOR113

NOR115

NOR117

ASHLEY WILLIS

DANIEL P. SITCH

DUANE & JANELLE THOMPSON

BLANE M. & HAYLEY ANN MAHER

RUSSELL P. MADSON

PHILLIP M. FIEROVA

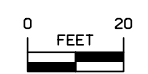
TOMMY C. & KATHLEEN A. CHRISTIANSON

MATT THOMPSON

BOB A. & JULIE M. HARRIS

RICK CARLSON

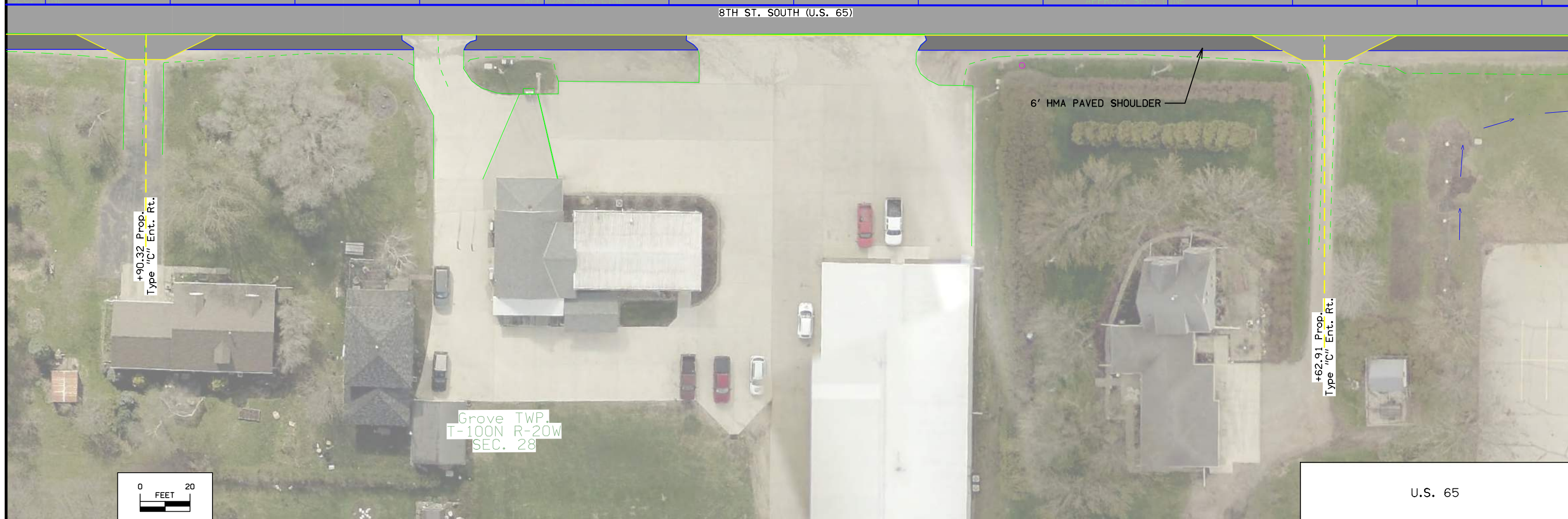
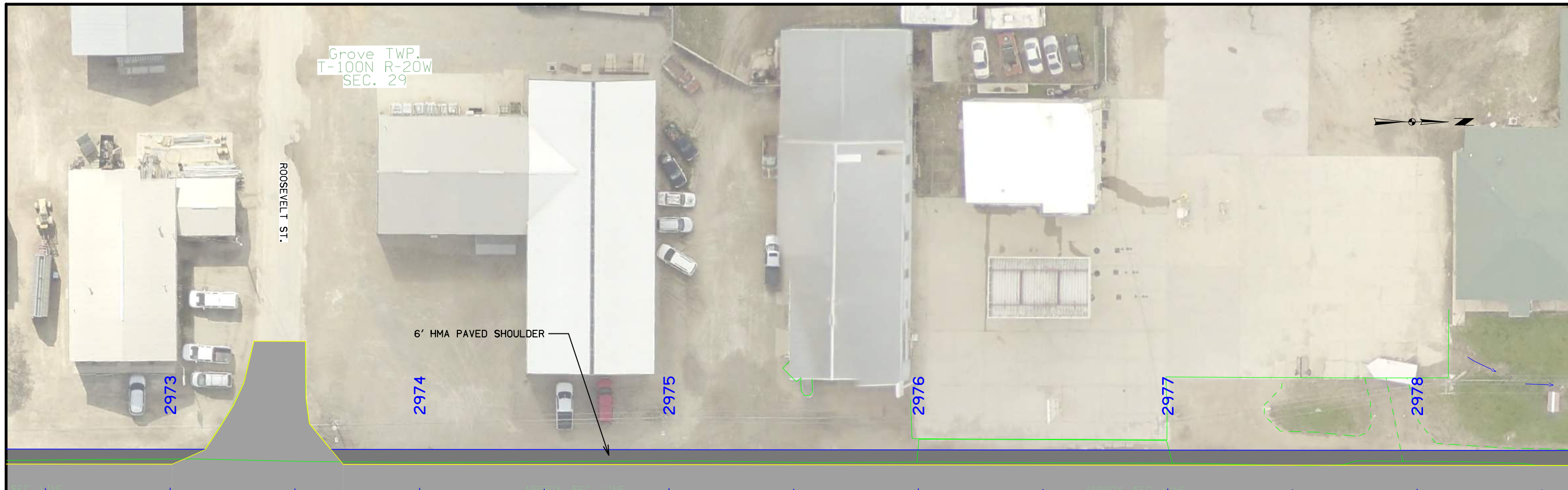
BONNIE J. BREVIG



For Right of Way Information Refer to H Sheets

For Sidewalk Information Refer to S Sheets

U.S. 65



Grove TWP.
T-100N R-20W
SEC. 29

ROOSEVELT ST.

6' HMA PAVED SHOULDER

2973

2974

2975

2976

2977

2978

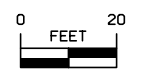
8TH ST. SOUTH (U.S. 65)

+90.32 Prop.
Type 'C' Ent. Rt.

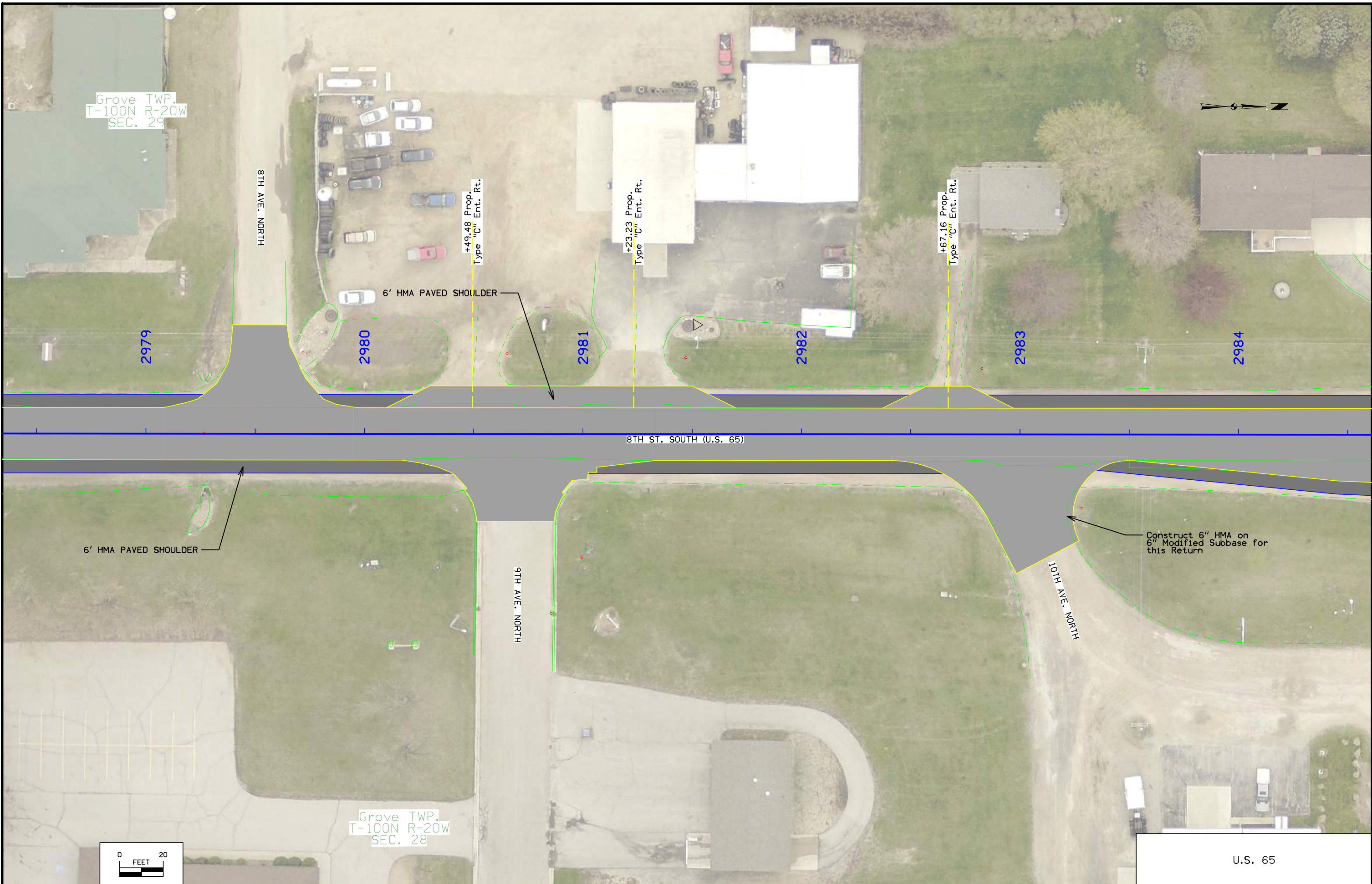
Grove TWP.
T-100N R-20W
SEC. 28

6' HMA PAVED SHOULDER

+62.91 Prop.
Type 'C' Ent. Rt.



U.S. 65



Grove TWP.
T-100N R-20W
SEC. 29

8TH AVE. NORTH

2979

2980

2981

2982

2983

2984

+49.48 Prop.
Type 'C' Ent. Rt.

+23.23 Prop.
Type 'C' Ent. Rt.

+67.16 Prop.
Type 'C' Ent. Rt.

6' HMA PAVED SHOULDER

8TH ST. SOUTH (U.S. 65)

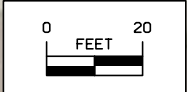
6' HMA PAVED SHOULDER

9TH AVE. NORTH

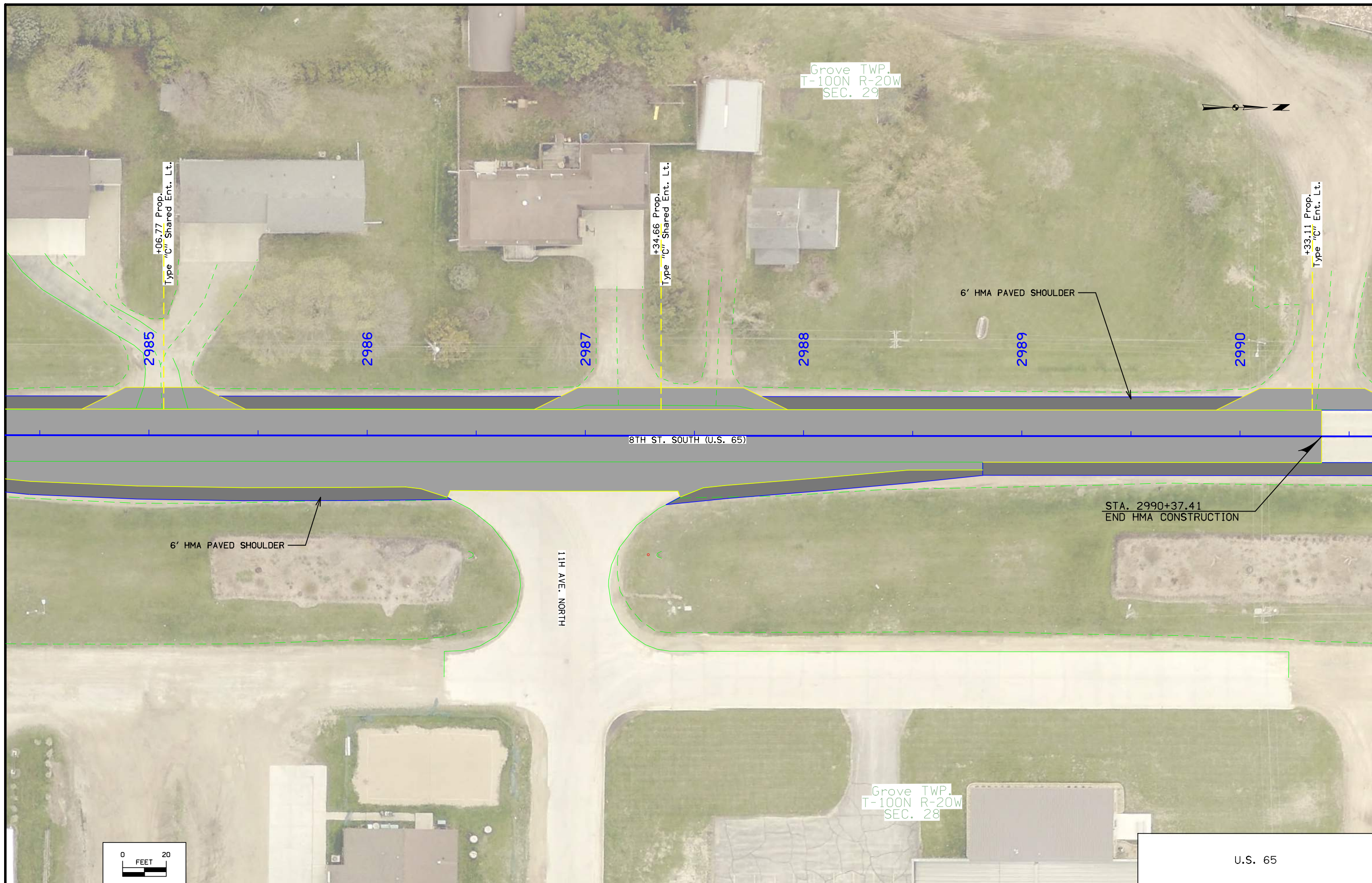
10TH AVE. NORTH

Construct 6" HMA on
6" Modified Subbase for
this Return

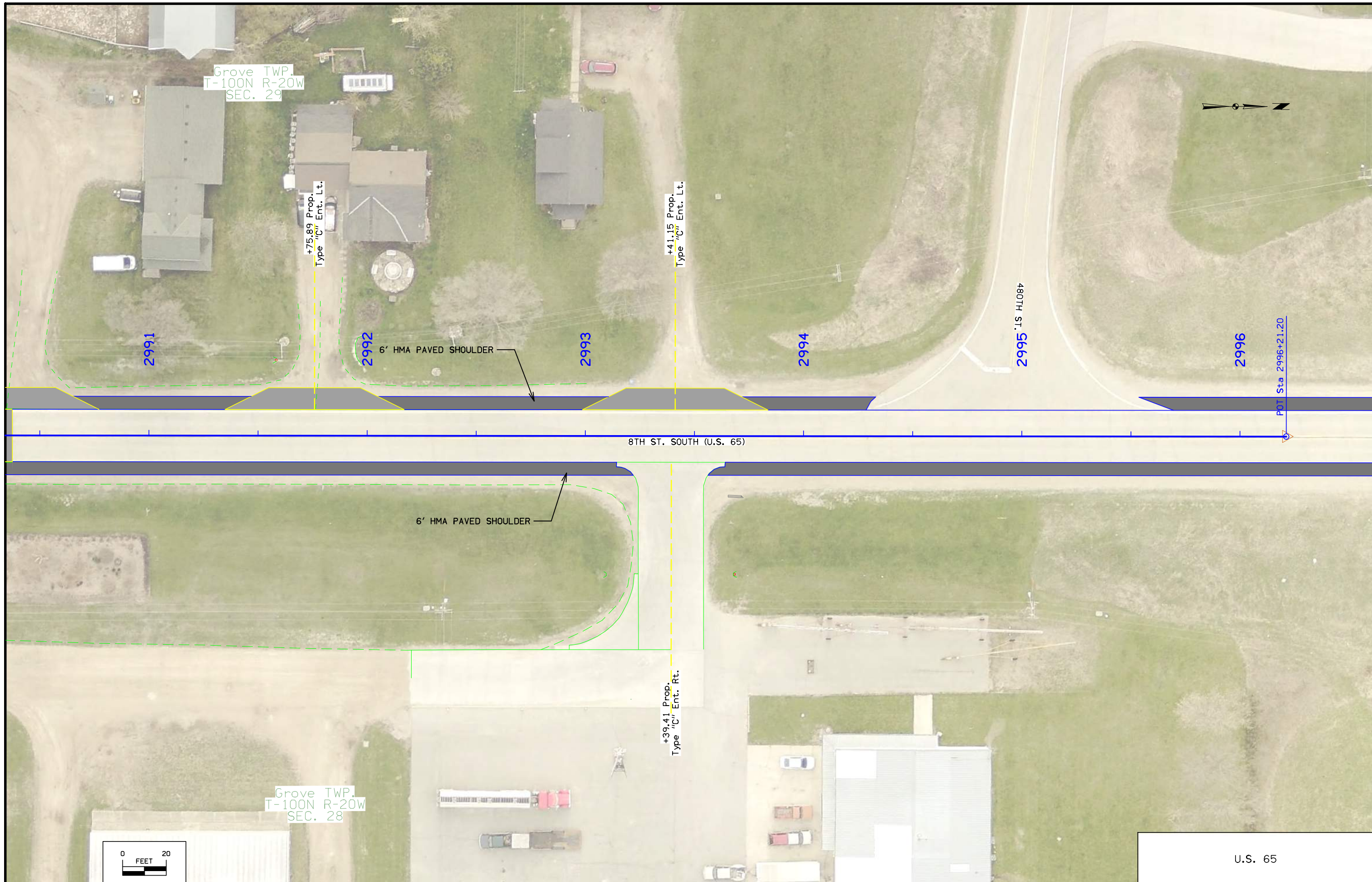
Grove TWP.
T-100N R-20W
SEC. 28



U.S. 65

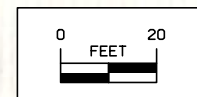


U.S. 65



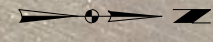
Grove TWP.
T-100N R-20W
SEC. 29

Grove TWP.
T-100N R-20W
SEC. 28



U.S. 65

Grove TWP.
T-100N R-20W
SEC. 20



6' HMA PAVED SHOULDER

HMA PAVED SHOULDER IN FRONT OF PROPOSED GUARDRAIL

PROPOSED GUARDRAIL

8TH ST. SOUTH (U.S. 65)

6' HMA PAVED SHOULDER

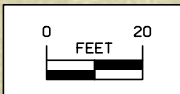
HMA PAVED SHOULDER IN FRONT OF PROPOSED GUARDRAIL

PROPOSED GUARDRAIL

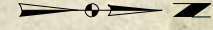
Grove TWP.
T-100N R-20W
SEC. 21

UNION PACIFIC RR

U.S. 65



Grove TWP.
T-100N R-20W
SEC. 20



UNION PACIFIC RR

PROPOSED GUARDRAIL

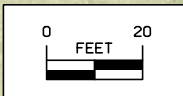
HMA PAVED SHOULDER IN FRONT OF PROPOSED GUARDRAIL

8TH ST. SOUTH (U.S. 65)

HMA PAVED SHOULDER IN FRONT OF PROPOSED GUARDRAIL

PROPOSED GUARDRAIL

Grove TWP.
T-100N R-20W
SEC. 21



U.S. 65

Survey Information

Worth County
STPN-065-9(21)--2J-98
Co Rd 105 to NCL of Northwood
PIN 21-98-065-010
Sap-0965.0

General Information

Measurement units for this survey are US survey feet. This survey is for proposed pavement rehabilitation and drainage corrections along U.S Hwy. 65. Project datum and control information is provided by the Design Survey Office. This project is a Full DTM. This survey request was for the U.S. 65 corridor only.

Vertical Control

Vertical datum for this survey is NAVD88 (Computed using Geoid12B). GRS80 Ellipsoidal Height was computed at project control Pts. 652164, 652175, 652182, 2005-522, 2005-529 and 2404A by conducting one concurrent 5.5-hour static observation.

This survey observed 1 NGS Control Monument with published NAVD88 height to compare to local ground control:

NGS 2nd. order class I mark designated 2404 A has a published Elev. Of 1241.23
Survey Elev. = 1241.274

This survey observed 2 local area county Control Monuments with published NAVD88 heights to compare to local ground control:

Worth County GPS Control Point 2005-522 has a published Elev. of 1257.66
Survey Elev. = 1257.559

Worth County GPS Control Point 2005-529 has a published Elev. of 1232.40
Survey Elev. = 1232.292

Horizontal Control

The project coordinate system for this survey is Iowa RCS Zone 2 (U.S. Survey Feet). This survey control is relative to laRTN reference stations. laRTN Reference Station coordinates are relative to the National Reference Station network datum: NAD83 (2011) for Epoch 2010.00. Coordinates were determined at project control Pts. 652164, 652175, 652182, 2005-522, 2005-529 and 2404A by conducting 1 concurrent 5.5-hour static observation.

Alignment Information

The horizontal alignment for this survey is a retrace of As-built Plans Project Nos. P-555A and F-1047(3). Survey stationing was equated to the As-built Plan Project No. F-1047(3) POT at Sta. 2996+21.2 and run back without equation throughout the survey.

Survey stationing relates to as built plan stationing as follows:

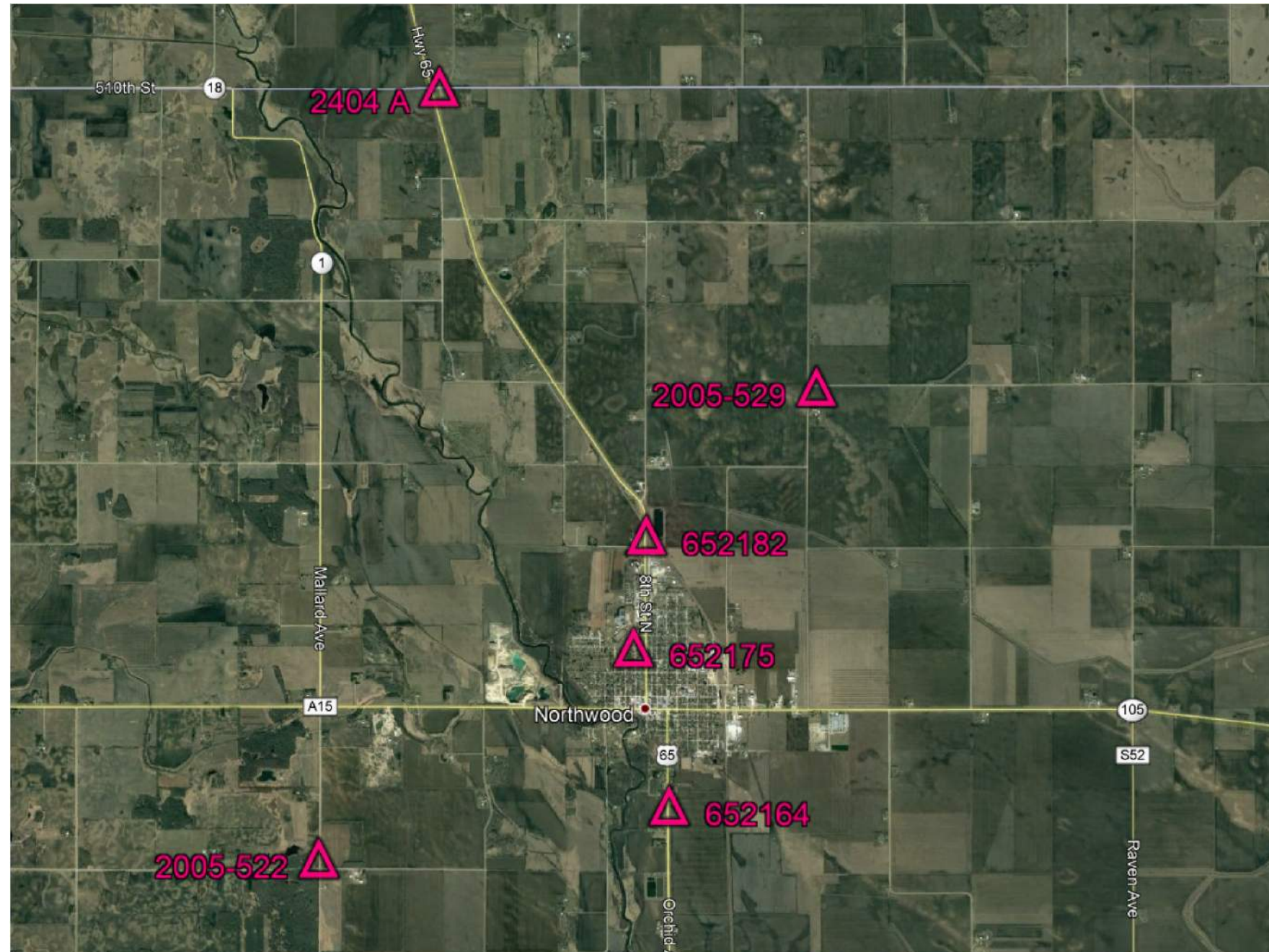
POT Sta. 441+11.15 As-built Plans Project No. P-555A
POT Sta. 2996+21.2 As-built Plans Project No. F-1047(3)
Survey POT Sta. 2996+21.2

PI Sta. 414+74.8 As-built Plans Project No. P-555A
Survey PI Sta. 2969+84.66

PI Sta. 388+34.8 As-built Plans Project No. P-555A
Survey PI Sta. 2943+43.86

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 2

Coordinate listing from next sheet will be used with 1aRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

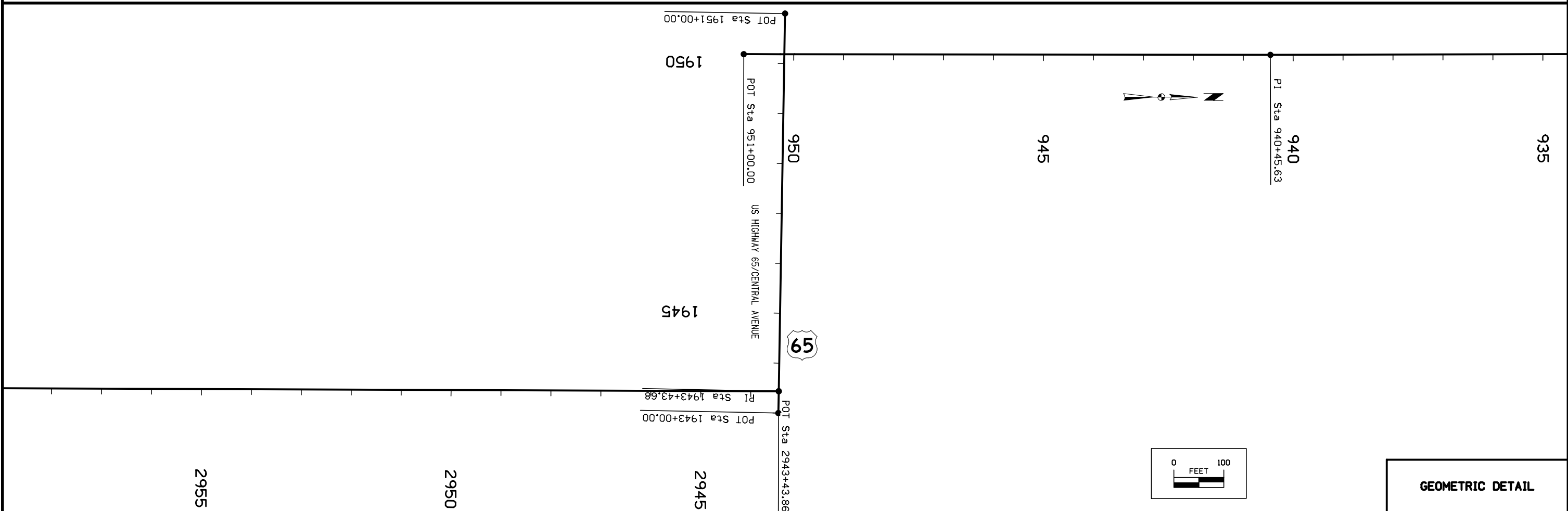
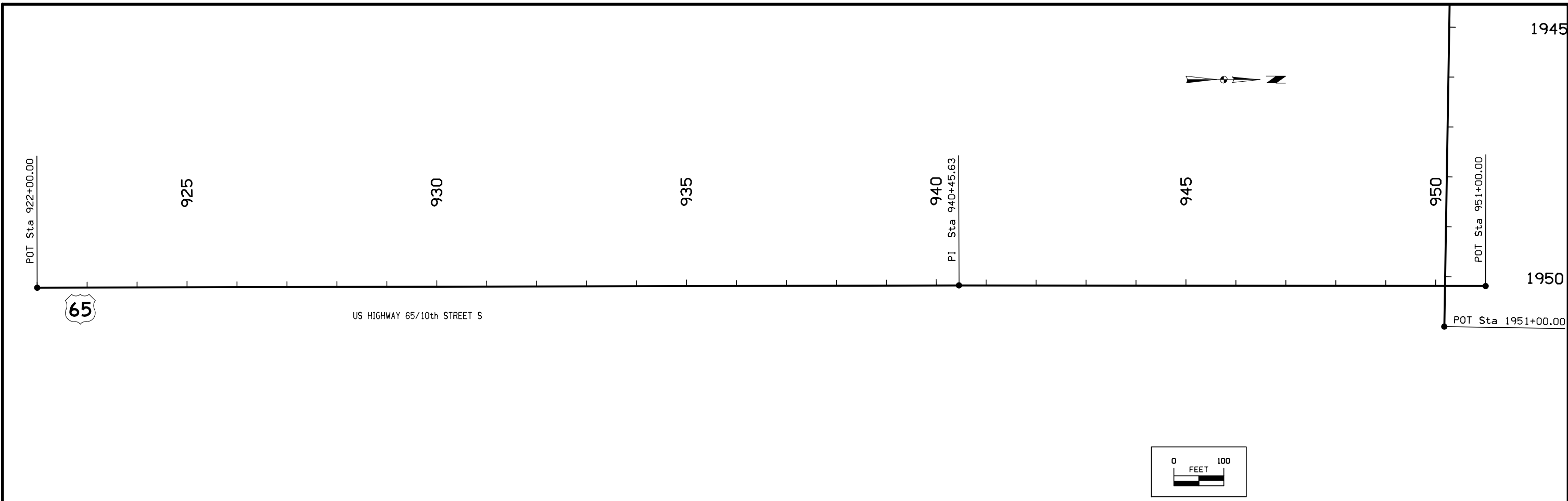
HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

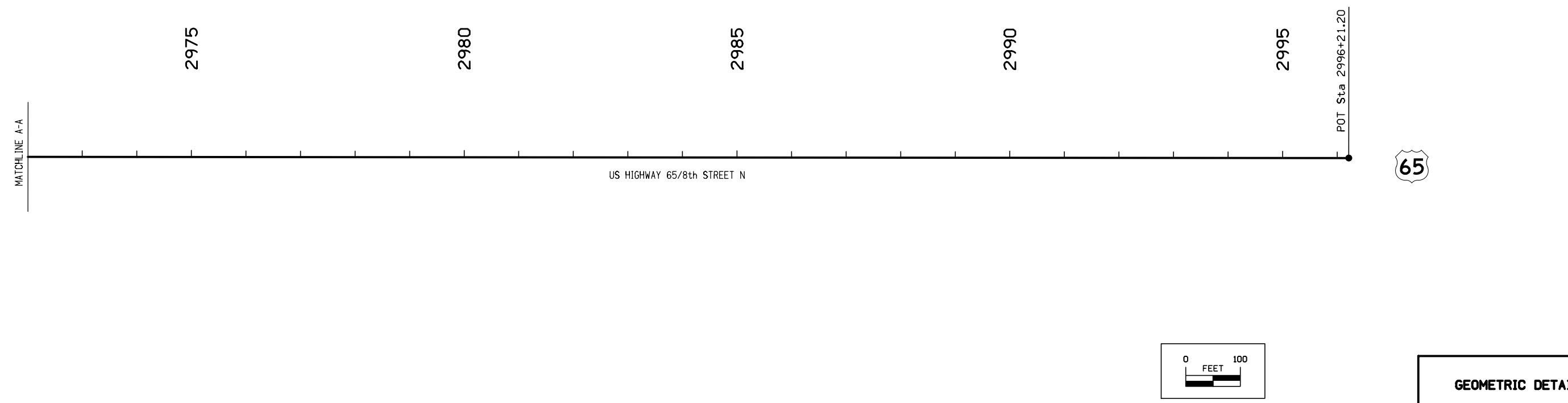
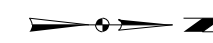
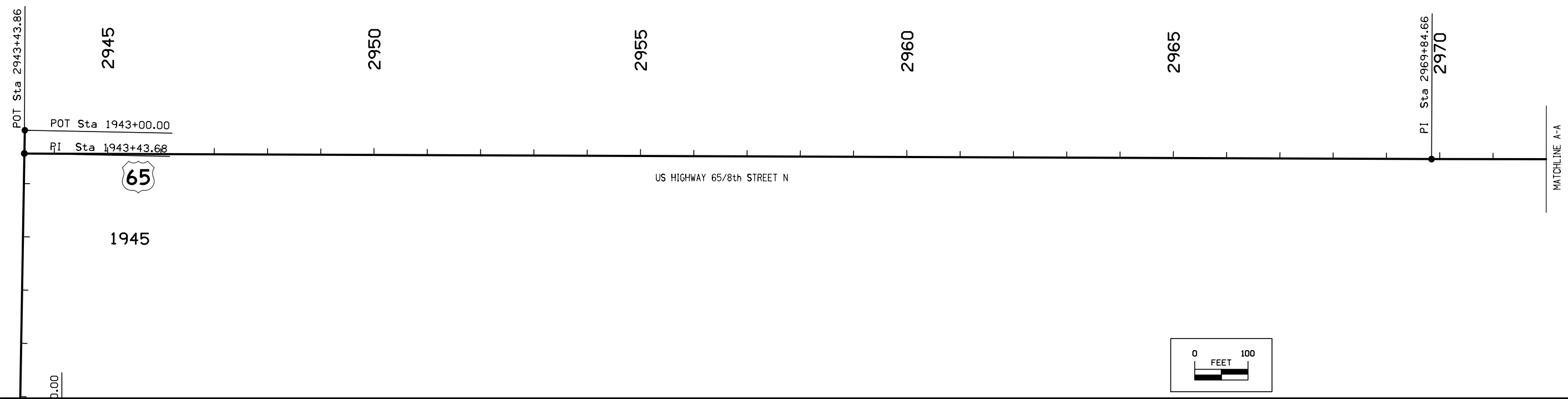
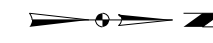
Ia. Regional Coordinate System Zone 2

Project Control Marks are Bench Marks

<u>Point Name</u>	<u>Northing</u>	<u>Easting</u>	<u>Elevation</u>	<u>Feature Code-Monument Description</u>
652164	9898332.459	12375671.892	1201.455	FENO SET FENO MON W IDOT BRASS CAP STAMPED 652164 APPROX 330 FT SOUTH OF 8TH AVE S AND 64 FT EAST OF US HWY 65 AND 88 FT SOUTH OF PAVED ENT
652175	9903503.346	12374545.939	1230.453	FENO SET FENO MON W IDOT BRASS CAP STAMPED 652175 APPROX 390 FT WEST OF US HWY 65 AND 20 FT NORTH OF 5TH AVE N AND 41 FT WEST OF 7TH ST N
652182	9907143.547	12374977.764	1254.791	FENO SET FENO MON W IDOT BRASS CAP STAMPED 652182 APPROX 525 FT NORTH OF 480TH ST AND 36 FT EAST OF US HWY 65 AND 88 FT SSE OF END HAND RAIL US HWY 65 RR OVERPASS
2005-522	9896708.188	12364242.342	1257.559	CP FND WORTH CO GPS CONTROL POINT 2005-522 APPROX 390 FT NORTH OF 460TH ST AND 29 FT WEST OF MALLARD AVE AND 17 FT SE OF POW POLE
2005-529	9911926.215	12380542.171	1232.292	CP FND WORTH CO GPS CONTROL POINT 2005-529 APPROX 290 FT EAST OF PARTRIDGE AVE AND 30 FT SOUTH OF 490TH ST AND 216 FT WEST OF FIELD ENT
2404A	9921739.586	12368339.145	1241.274	CP FND NGS SECOND ORDER CLASS I VERTICAL MARK DESIGNATED 2404 A APPROX 285 FT ENE OF US HWY 65 AND 26 FT NORTH OF 510TH ST AND 33 FT WEST OF MOCKINGBIRD LANE



GEOMETRIC DETAIL



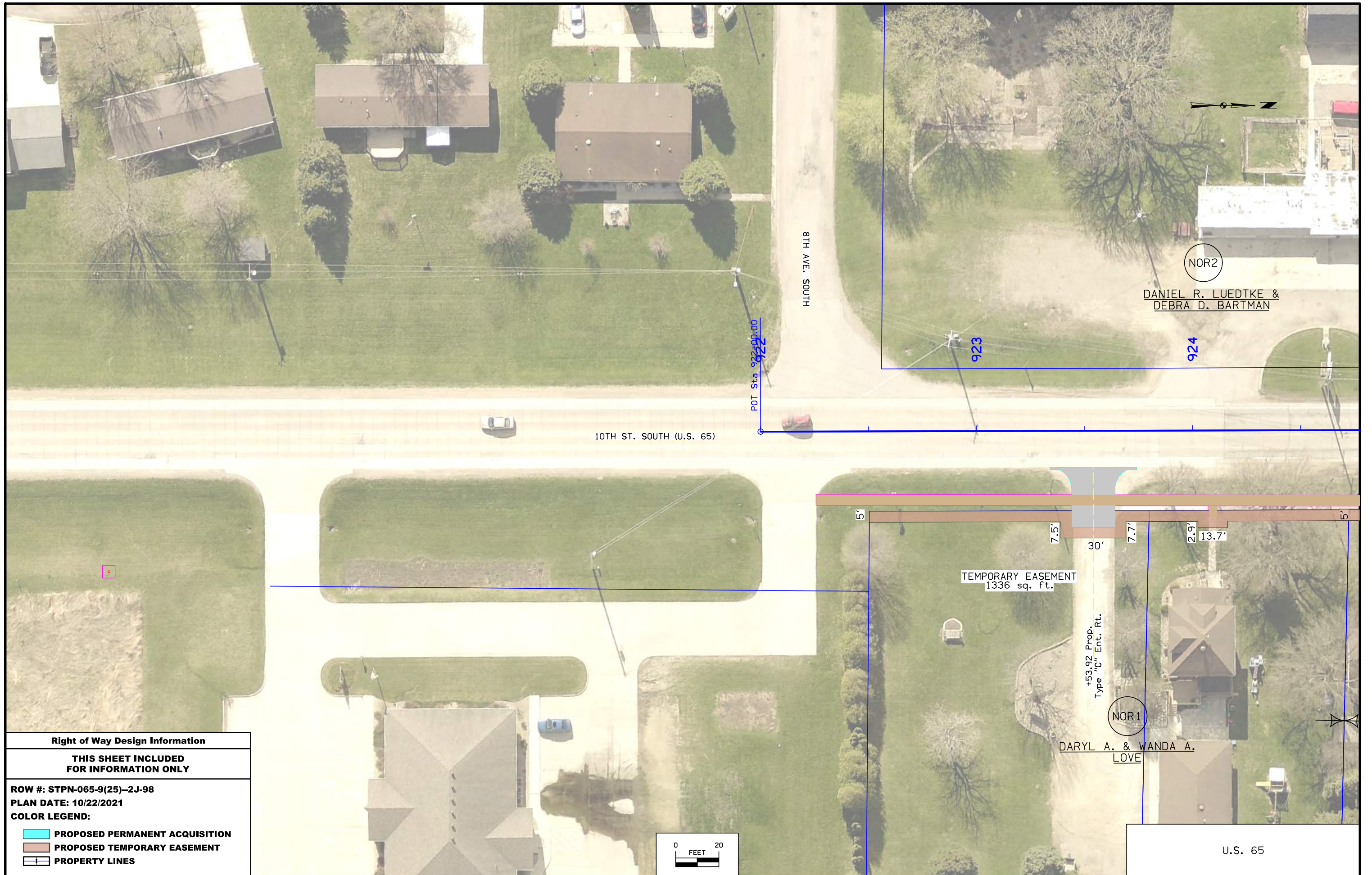
GEOMETRIC DETAIL

ALIGNMENT COORDINATES

101-16
10-20-09

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
US HIGHWAY 65	ML10TH																		
Point 14		922+00.00	9,898,634.066	12,375,606.949															
Point 15		940+45.63	9,900,479.690	12,375,602.360															
Point 16		951+00.00	9,901,534.059	12,375,603.726															
	MLCENTER																		
Point 17		1943+00.00	9,901,464.829	12,374,885.093															
Point 18		1943+43.68	9,901,463.969	12,374,928.765															
Point 19		1951+00.00	9,901,451.330	12,374,684.979															
	SURMLA065																		
Point 23		2943+43.86	9,901,463.969	12,374,928.765															
Point 24		2969+84.66	9,904,104.753	12,374,939.099															
Point 25		2996+21.20	9,906,741.290	12,374,941.559															

GEOMETRIC DETAIL



Right of Way Design Information

**THIS SHEET INCLUDED
FOR INFORMATION ONLY**

ROW #: STPN-065-9(25)--2J-98

PLAN DATE: 10/22/2021

COLOR LEGEND:

- PROPOSED PERMANENT ACQUISITION**
- PROPOSED TEMPORARY EASEMENT**
- PROPERTY LINES**

FILE NO.

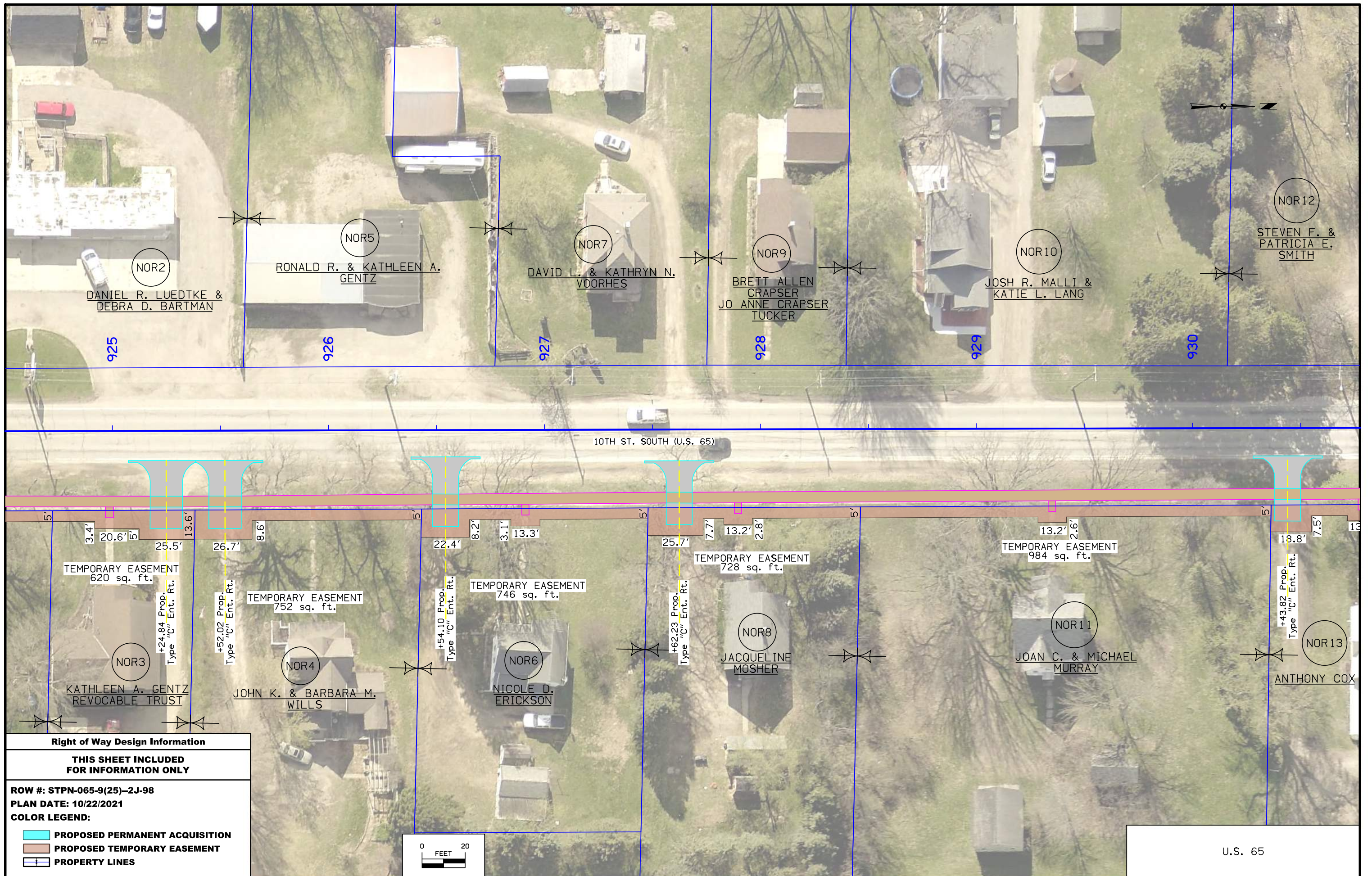
ENGLISH

DESIGN TEAM **WHKS & CO.**

WORTH COUNTY

PROJECT NUMBER **STPN-065-9(21)--2J-98 & STPN-065-9(24)--2J-98**

SHEET NUMBER **H. 1**

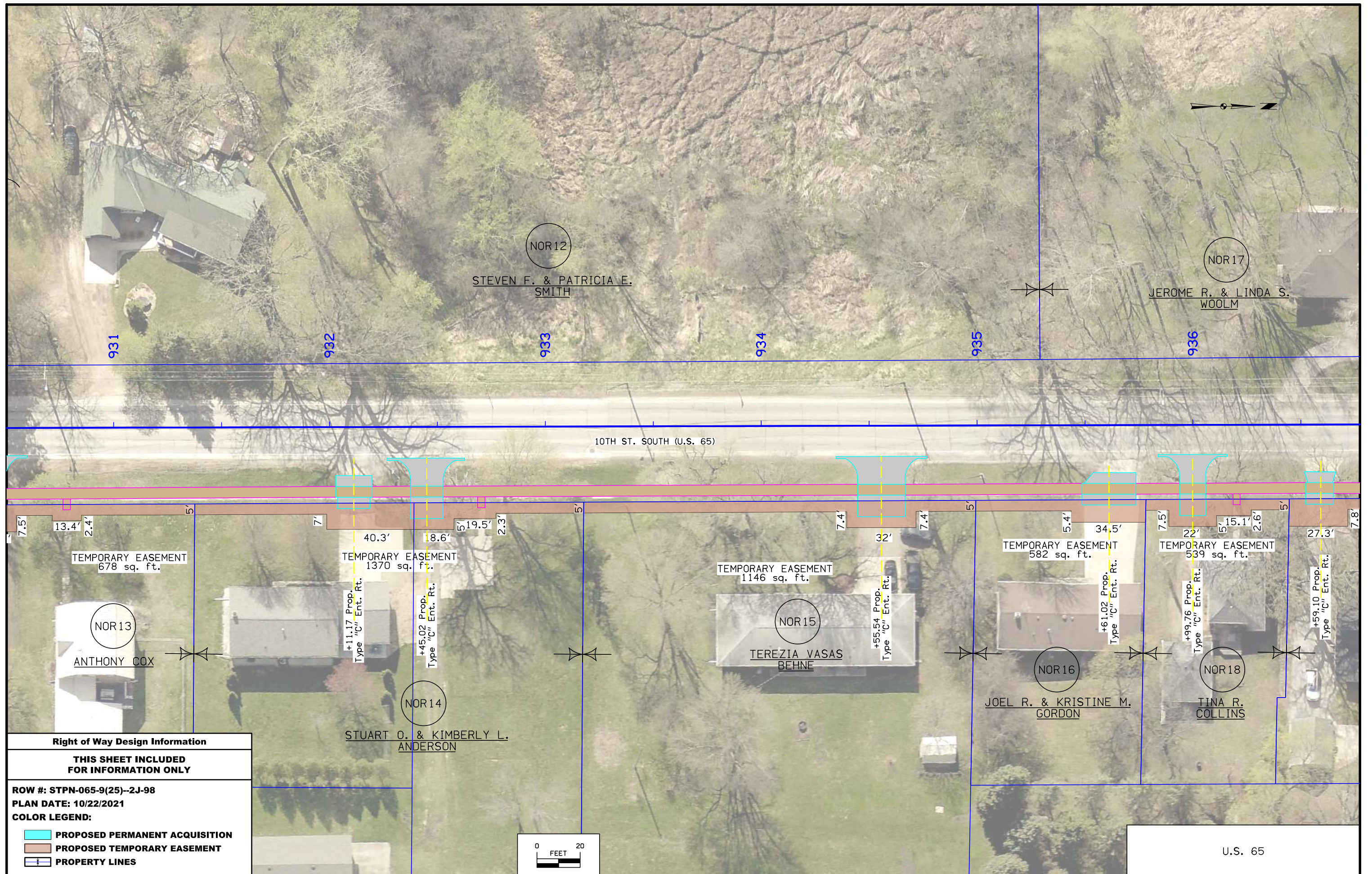


Right of Way Design Information

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ROW #: STPN-065-9(25)--2J-98
 PLAN DATE: 10/22/2021
 COLOR LEGEND:

- PROPOSED PERMANENT ACQUISITION
- PROPOSED TEMPORARY EASEMENT
- PROPERTY LINES

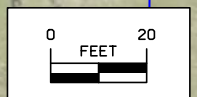


Right of Way Design Information

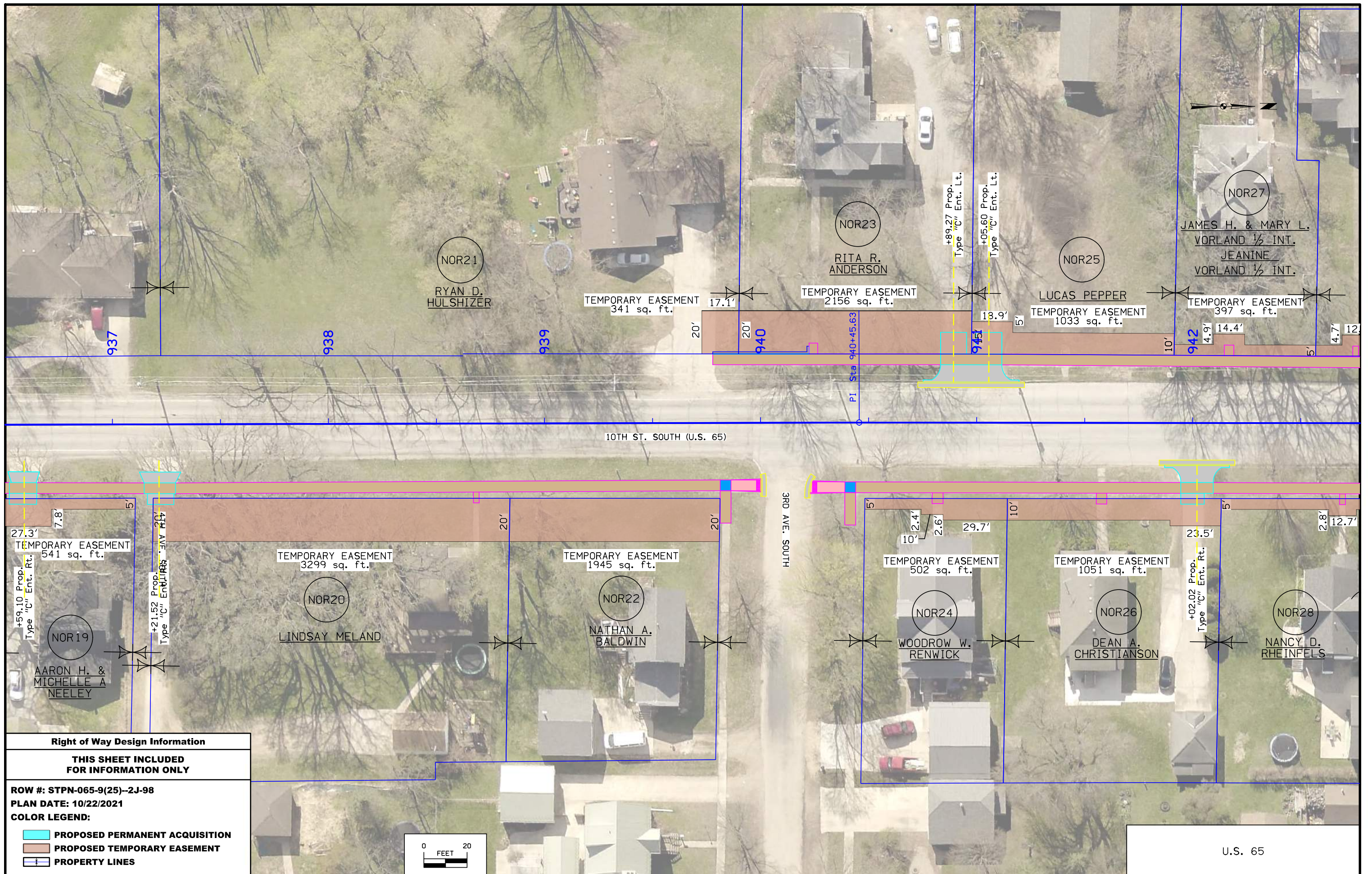
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW #: STPN-065-9(25)--2J-98
 PLAN DATE: 10/22/2021
 COLOR LEGEND:

- PROPOSED PERMANENT ACQUISITION
- PROPOSED TEMPORARY EASEMENT
- PROPERTY LINES



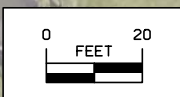
U.S. 65



10TH ST. SOUTH (U.S. 65)

3RD AVE. SOUTH

U.S. 65

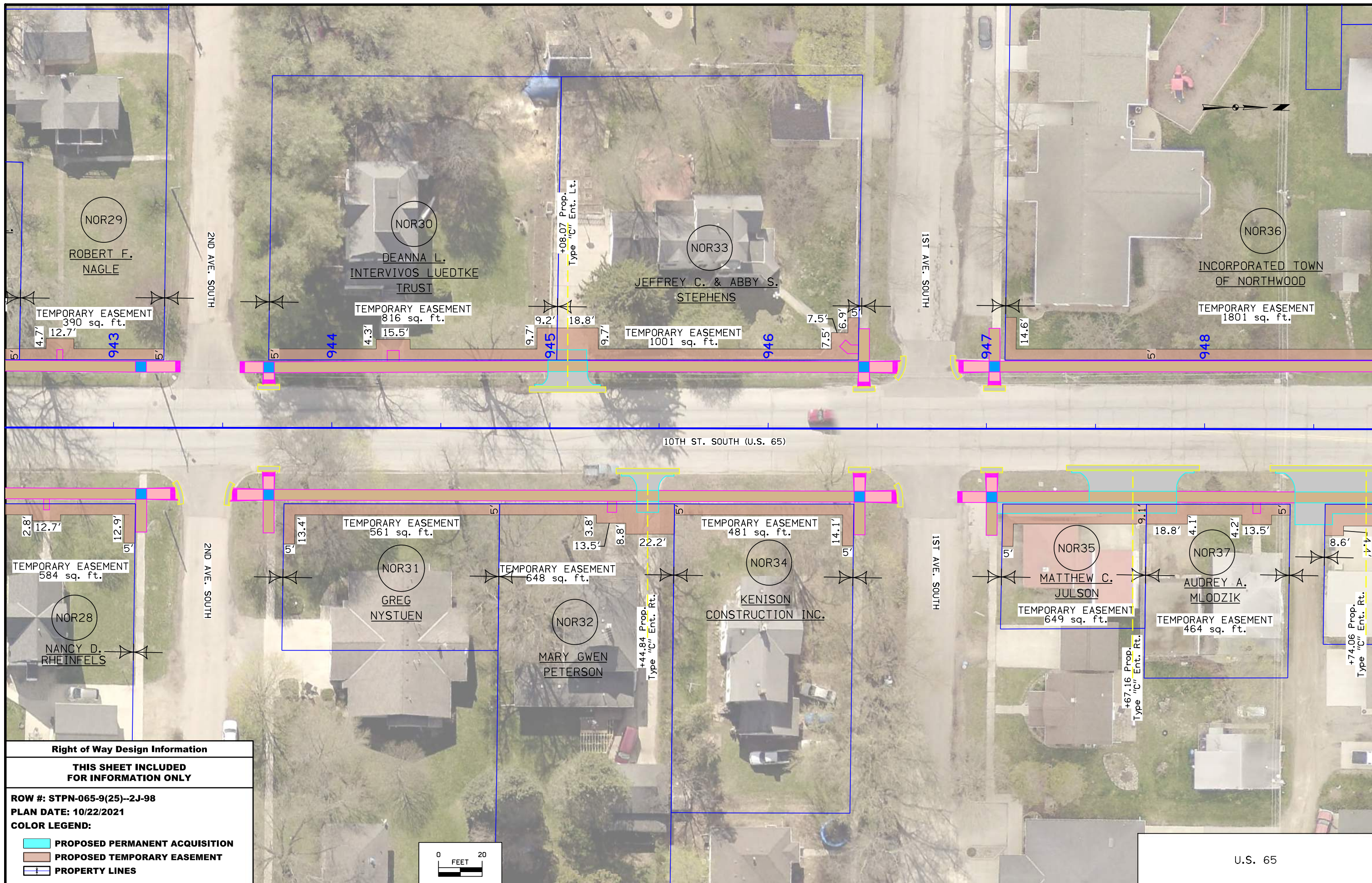


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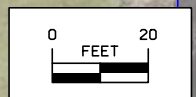


Right of Way Design Information

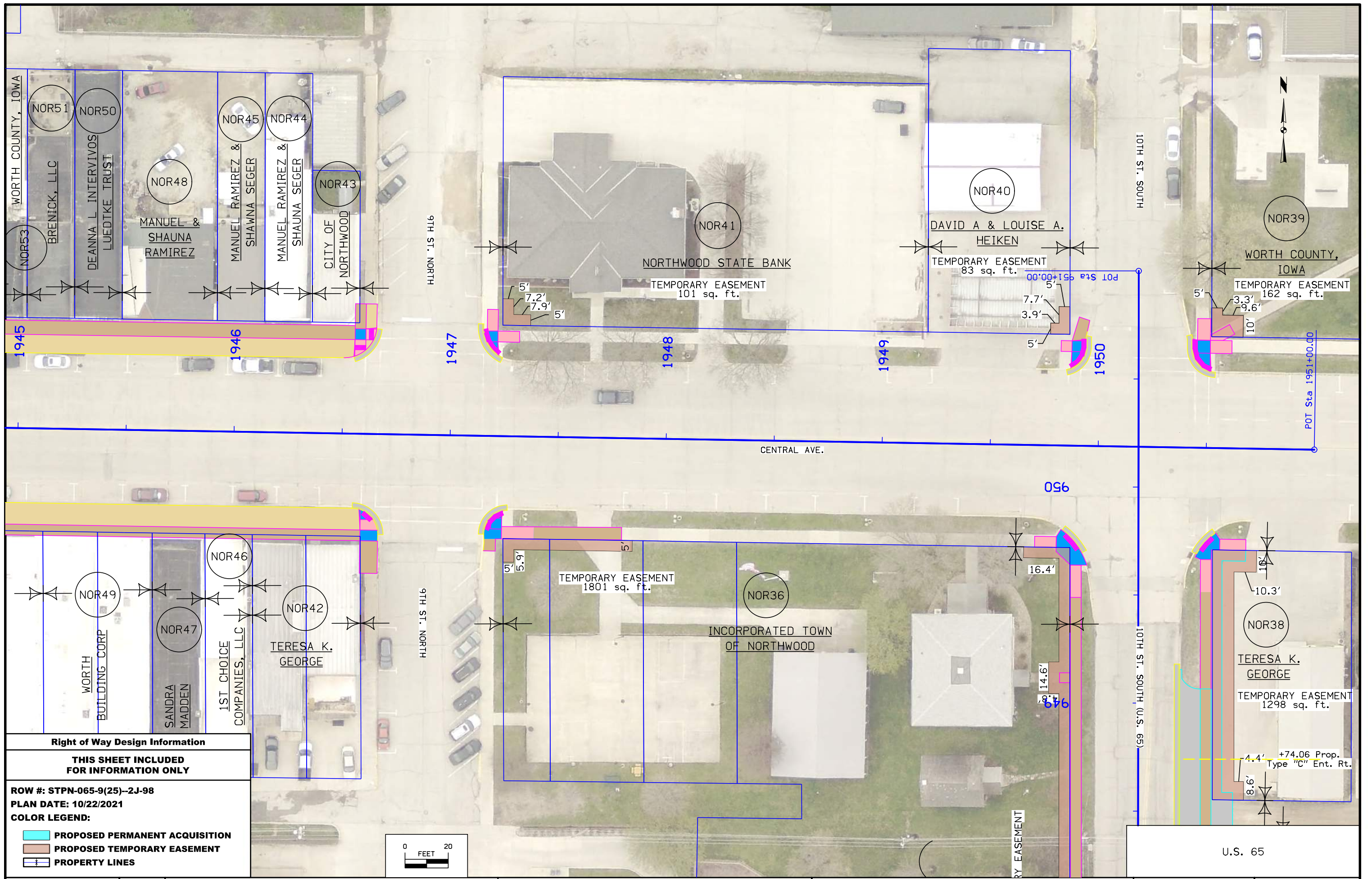
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 PLAN DATE: 10/22/2021
 COLOR LEGEND:

- PROPOSED PERMANENT ACQUISITION
- PROPOSED TEMPORARY EASEMENT
- PROPERTY LINES



U.S. 65

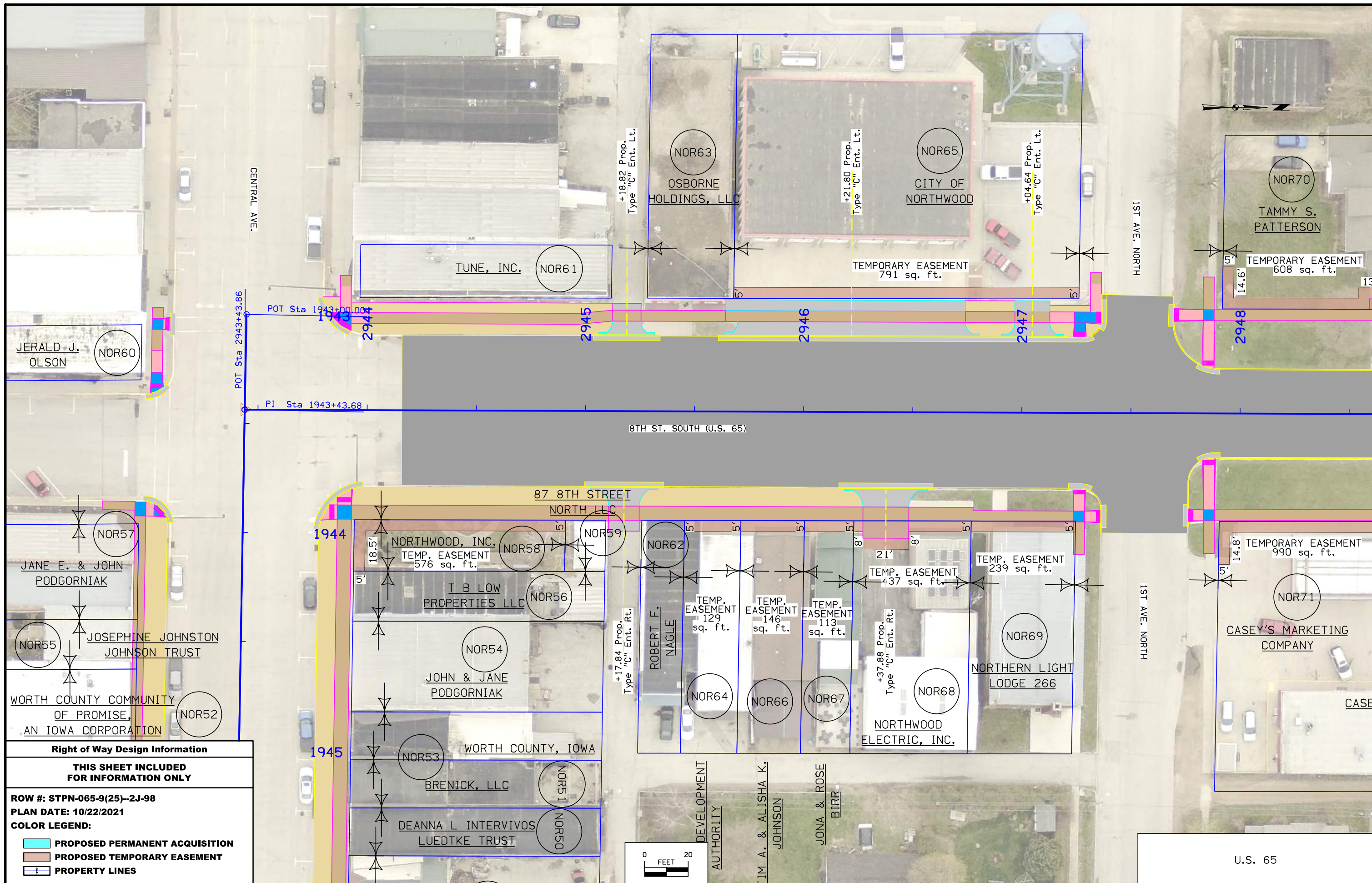


Right of Way Design Information

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ROW #: STPN-065-9(25)--2J-98
PLAN DATE: 10/22/2021
COLOR LEGEND:

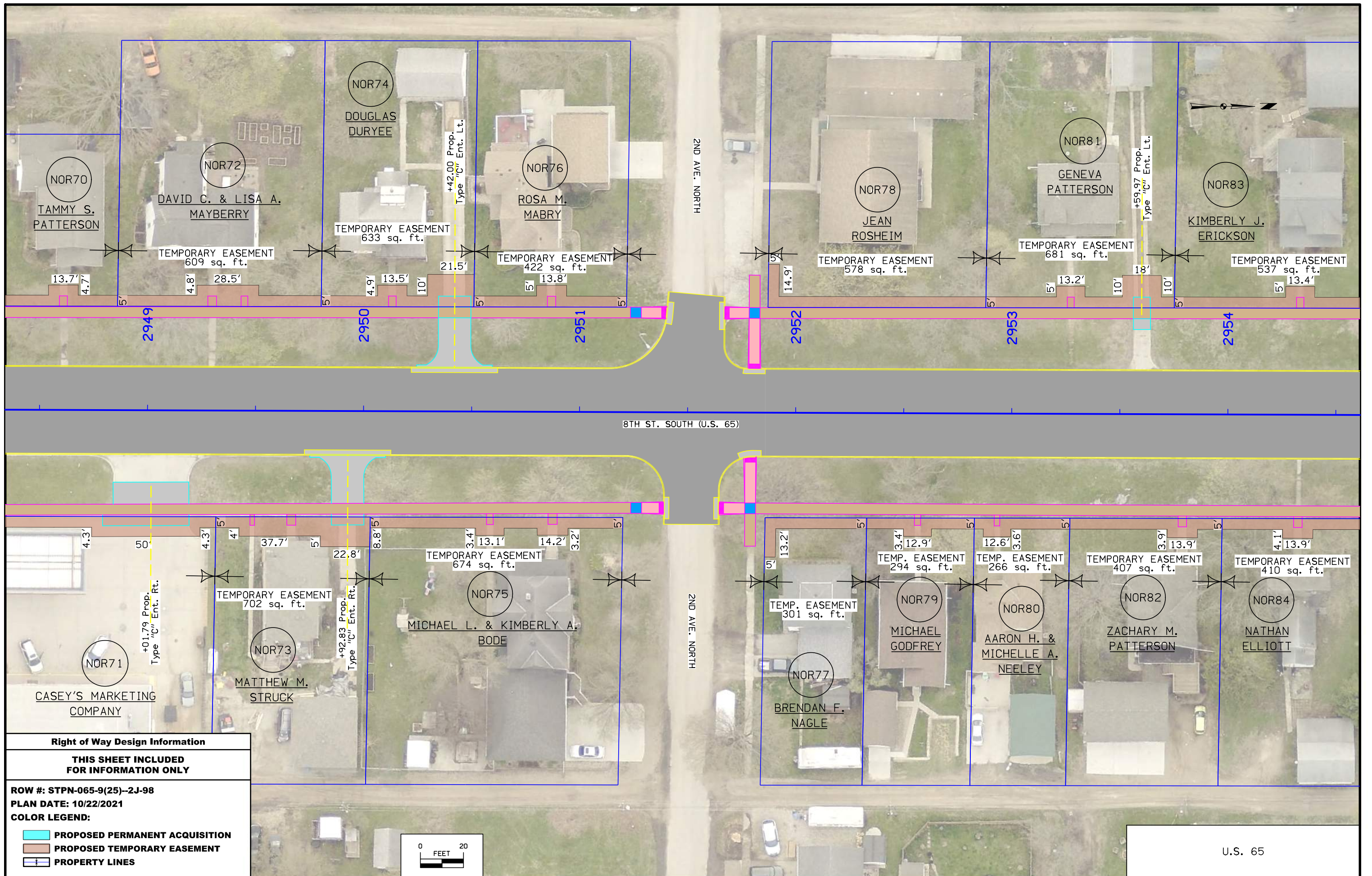
- PROPOSED PERMANENT ACQUISITION**
- PROPOSED TEMPORARY EASEMENT**
- PROPERTY LINES**



Right of Way Design Information	
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ROW #: STPN-065-9(25)--2J-98	
PLAN DATE: 10/22/2021	
COLOR LEGEND:	
	PROPOSED PERMANENT ACQUISITION
	PROPOSED TEMPORARY EASEMENT
	PROPERTY LINES



U.S. 65

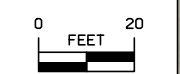


Right of Way Design Information

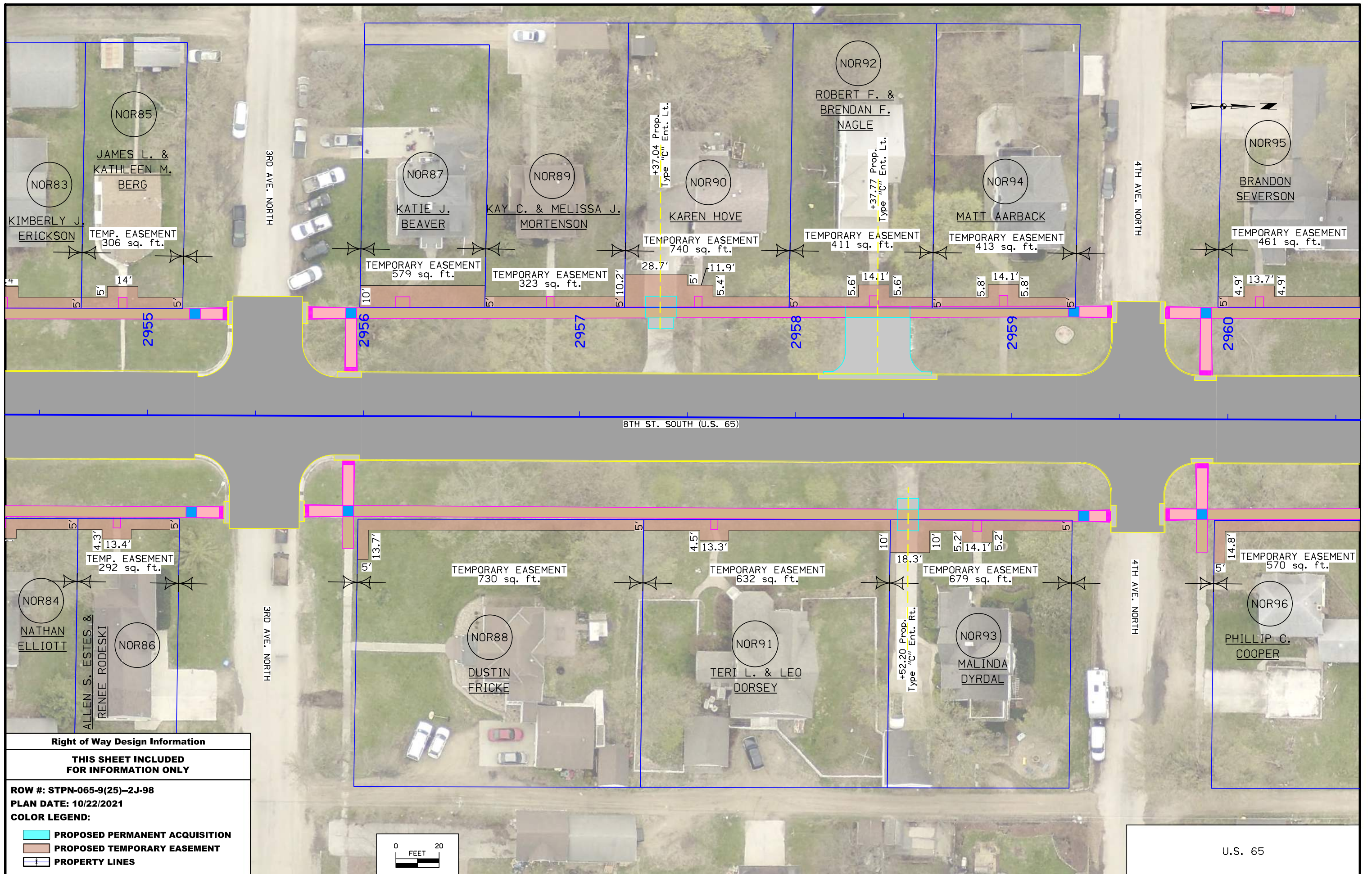
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW #: STPN-065-9(25)--2J-98
PLAN DATE: 10/22/2021
COLOR LEGEND:

- PROPOSED PERMANENT ACQUISITION**
- PROPOSED TEMPORARY EASEMENT**
- PROPERTY LINES**



U.S. 65



Right of Way Design Information

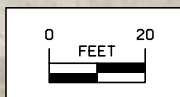
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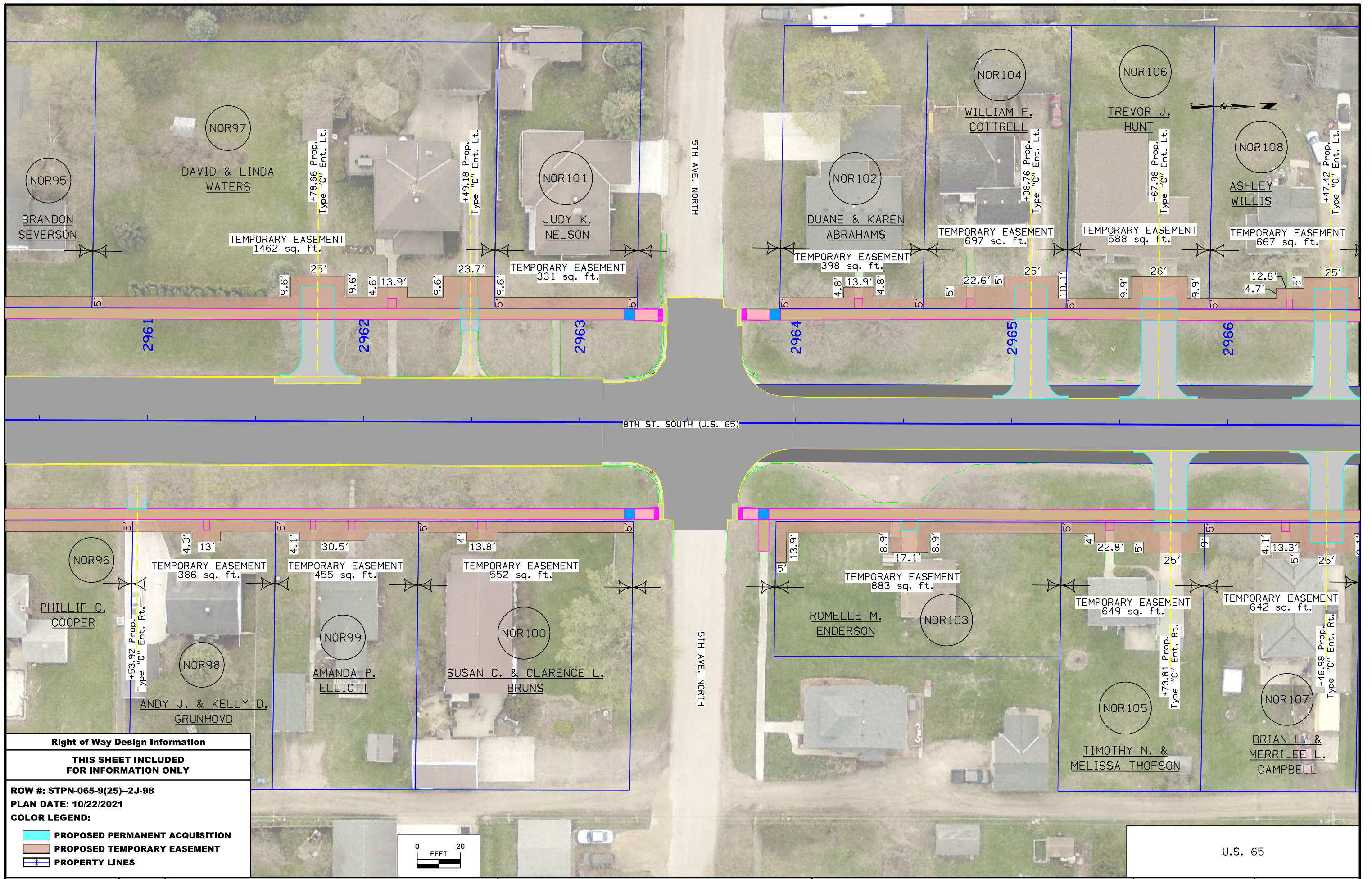
PLAN DATE: 10/22/2021

COLOR LEGEND:

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- PROPOSED TEMPORARY EASEMENT
- PROPERTY LINES



U.S. 65



Right of Way Design Information

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ROW #: STPN-065-9(25)--2J-98

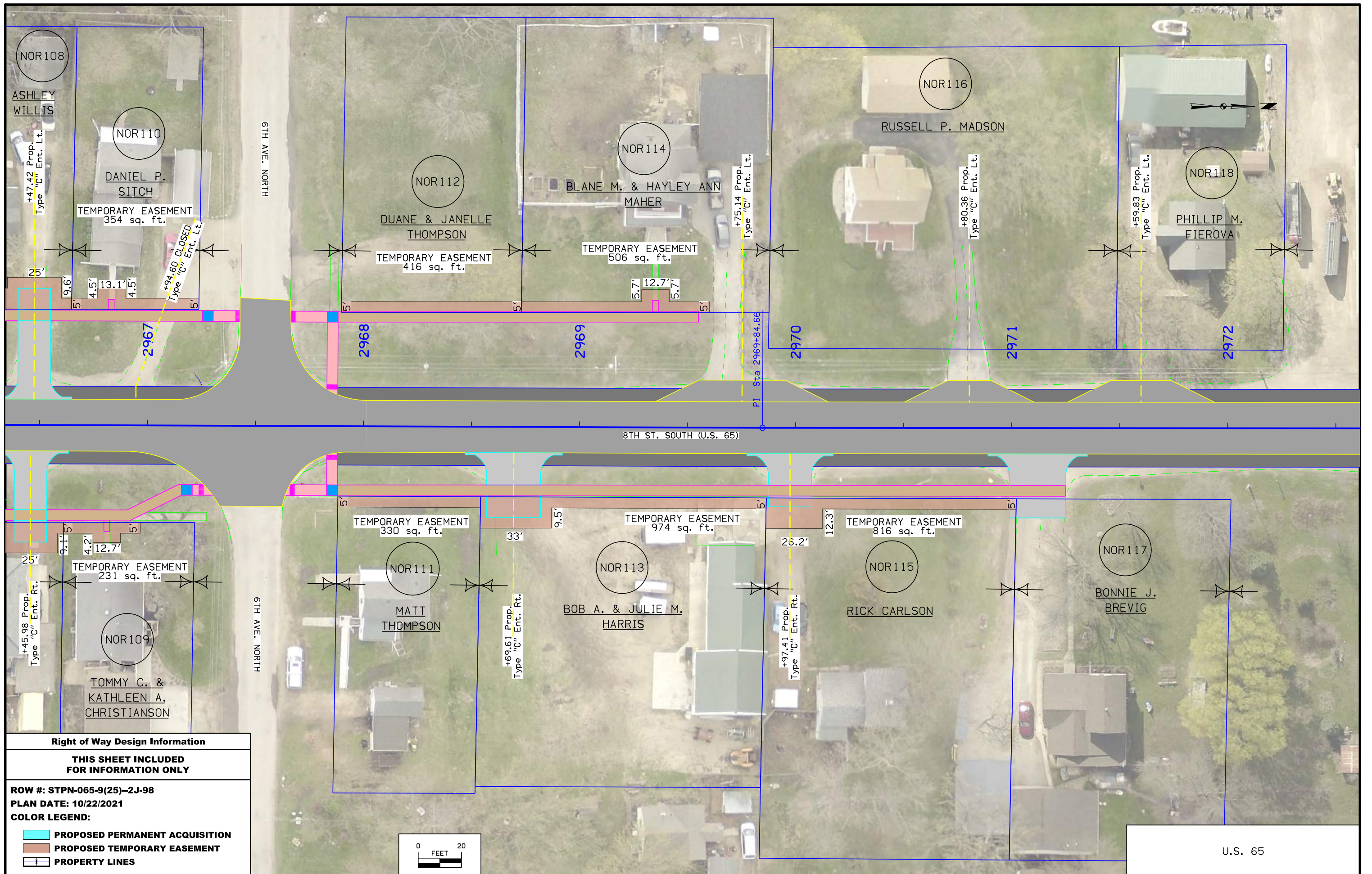
PLAN DATE: 10/22/2021

COLOR LEGEND:

- PROPOSED PERMANENT ACQUISITION**
- PROPOSED TEMPORARY EASEMENT**
- PROPERTY LINES**



U.S. 65

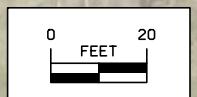


Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW #: STPN-065-9(25)--2J-98
 PLAN DATE: 10/22/2021
 COLOR LEGEND:

- PROPOSED PERMANENT ACQUISITION
- PROPOSED TEMPORARY EASEMENT
- PROPERTY LINES



U.S. 65

TRAFFIC CONTROL PLAN

Through traffic shall be maintained on the project at all times using Standard Road Plans. A minimum one lane shall be maintained during on-the-road operations (milling, HMA paving, paved shoulder construction, etc.). A minimum of two lanes (one in each direction) shall be maintained during sidewalk construction.

Through traffic shall be maintained on the project at all times using TC-419 (Lane Closure on Undivided Highway) for the ADA work on Central Ave.

Traffic lanes and sidewalks shall be left open as much as possible during the entire project.

Pedestrian routes will be closed during construction. Pedestrian detours are not required. Sidewalks must be closed per Standard Specifications Section 2518 and 2528, as well as Standard Road Plan TC-601. Payment for sidewalk closures shall be incidental to the Traffic Control bid item.

Contractor shall coordinate sidewalk closures with property owners and stage closures to provide access. Contractor is to coordinate with businesses adjacent to sidewalk replacements and stage those closures to provide access during business hours.

STAGING NOTES

1. The Project shall be staged to minimize inconvenience to vehicular and pedestrian users.
2. Contractor shall supply a staging plan to the Iowa DOT prior to the Preconstruction Meeting for approval and review by the City of Northwood.
3. Contractor shall not deviate from approved staging plan without approval from the Resident Construction Engineer.
4. Work shall be staged such that two adjacent side streets are not closed at the same time.
5. Work shall be staged to meet the requirements of the Traffic Control Plan.

6. General Sequence of Construction:
- a). Underground work and pavement patching
 - b). Curb and gutter construction and sidewalk improvements
 - c). Milling
 - d). Overlay
 - e). Miscellaneous work not affecting traffic

SIDEWALK STAGING NOTES

1. Contractor shall be permitted to have only 4 continuous blocks under construction at a time, these may include:
 - One block of sidewalk being excavated and removed; PCC will be replaced within 10 working days of being removed
 - One block of sidewalk being prepared for pouring, preparing of subgrade, and forming
 - One block of sidewalk being replaced
 - One block of sidewalk being finished, including seeding and soil preparation
2. The Contractor shall maintain access to all businesses during construction at all times, unless an agreement has been reached between the Contractor and business owner prior to starting work adjacent to the property. The Contractor must notify all businesses 3 business days prior to construction beginning in front of that business.
3. Special requirements for the Contractor have been requested for the following parcels:
None at this time.

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
US 65	SB	Worth	No Travel Restrictions Expected									
	NB	Worth	No Travel Restrictions Expected									

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
DISTRICT/CITY TO PROVIDE	

SURVEY SYMBOLS

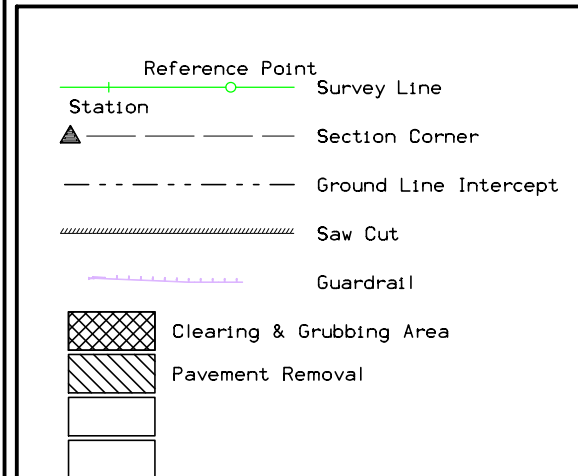
- LIN Miscellaneous Line
- IN Storm Sewer Intake
- PIP Pipe Culvert
- MH Utility Access (Manhole)
- MIS Miscellaneous
- CON Concrete or A/C Slab
- BL Topo Breakline
- ST1D Storm Sewer Co. 1 - Quality D
- D Centerline Draw or Stream (Down)
- DU Centerline Draw or Stream (Up)
- ENU Edge Unpaved Entrance & Parking
- ENT Centerline BL of Entrance
- CU Back of Curb
- GU Gutter In Front of Curb
- TDC Tree Deciduous
- SNP Unpaved Shoulder
- WV Water Valve
- FHD Fire Hydrants
- ENP Edge Paved Entrance & Park Lot
- PPA Power Pole Co. 1
- PR Electric Riser Pole
- ROW Right of Way Mark
- LUM Luminaire
- SI Sign
- FW Wire Fence
- SWK Sidewalk
- C Centerline BL of Road (ML or SR)
- EP Edge of Paved Roads (ML or SR)
- EG Edge of Gravel Road
- G GL1D Gas Line Co. 1 - Quality D
- INB Storm Sewer Beehive Intake
- UB Utility Box
- W WL1D Water Line Co. 1 - Quality D
- F0 F01D Fiber Optic Co. 1 - Quality D
- TV TV1D TV Cable Co. 1 - Quality D
- T1 TL1D Telephone Line Co. 1 - Quality D
- T2 TL2D Telephone Line Co. 2 - Quality D

UTILITY LEGEND

- Alliant Energy
Randy Cink
1035 43rd Street SW
Mason City, IA 50401
800-255-4268
RandyCink@alliantenergy.com
- St.S. City of Northwood
Dirk Van Ryswyk
627 Central Ave.
Northwood, IA 50459
641-324-1190
dvanryswyk@hotmail.com
- W City of Northwood
Dirk Van Ryswyk
627 Central Ave.
Northwood, IA 50459
641-324-1190
dvanryswyk@hotmail.com
- G Alliant Energy
Randy Cink
1035 43rd Street SW
Mason City, IA 50401
800-255-4268
RandyCink@alliantenergy.com
- F0 Winnebago Telephone
Neal Sletten
704 E Main St.
Lake Mills, IA 50450
641-592-6105
NealSletten@WCTAtel.com
- T1 Winnebago Telephone
Neal Sletten
704 E Main St.
Lake Mills, IA 50450
641-592-6105
NealSletten@WCTAtel.com
- TV Mediacom
Bob Stalker
473 Indianhead Dr. Suite 105
Mason City, IA 50401
641-430-0748
rstalker@mediacomcc.com
- T2 Mediacom
Bob Stalker
473 Indianhead Dr. Suite 105
Mason City, IA 50401
641-430-0748
rstalker@mediacomcc.com

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.	
Green	(2)		Existing Topographic Features and Labels
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)		Existing Utilities
SHADING		Design Color No.	
Tan	(8)		Proposed Sidewalk Shading
Blue, Light	(230)		Proposed Sidewalk Landing Shading
Pink	(11)		Proposed Sidewalk Ramp Shading
Magenta	(5)		Detectable Warning
Yellow	(4)		Highlight for Critical Notes or Features
Red	(3)		Delineates Restricted Areas
Lavender	(9)		Temporary Pavement Shading
Gray, Light	(48)		Proposed PCC Pavement Shading
Gray, Med	(80)		Proposed HMA Pavement Shading
Gray, Dark	(112)		Proposed HMA Shoulder Shading
Brown, Light	(236)		Proposed Sidewalk Special Shading

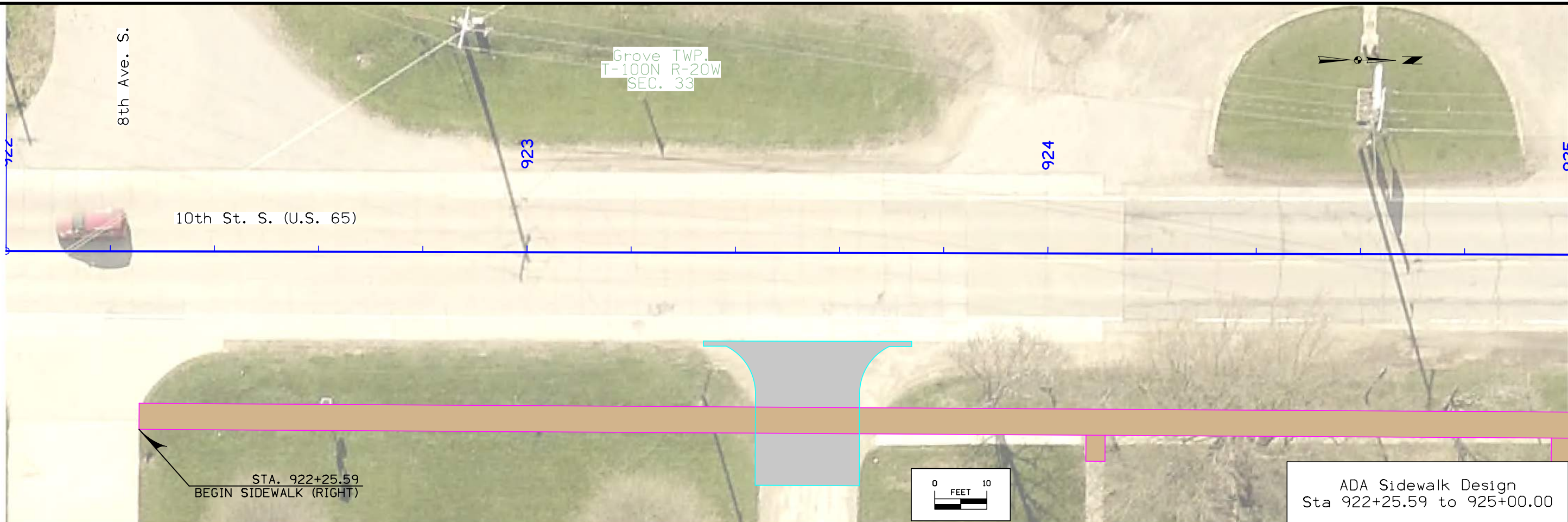


RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- Access Control

SIDEWALK LEGEND AND SYMBOL INFORMATION SHEET

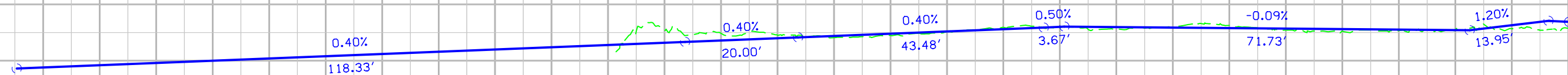
(COVERS SHEET SERIES S)



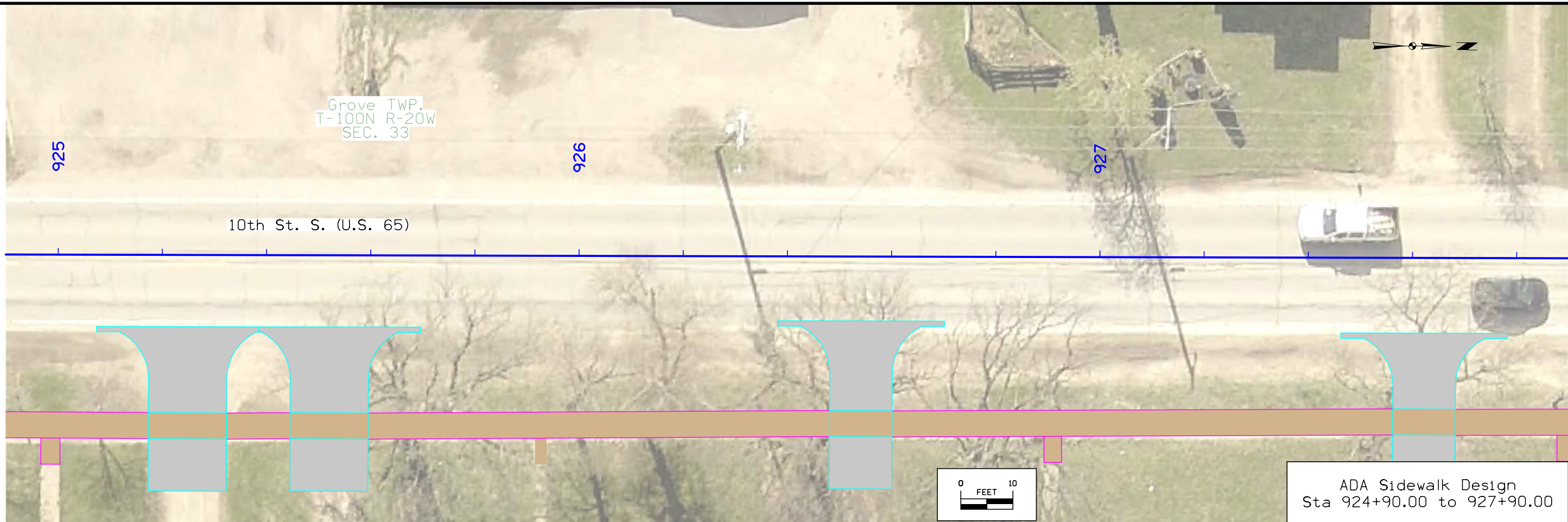
ADA Sidewalk Design
Sta 922+25.59 to 925+00.00

Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.

ADA Sidewalk Design
Profile - Left



ADA Sidewalk Design
Profile - Right



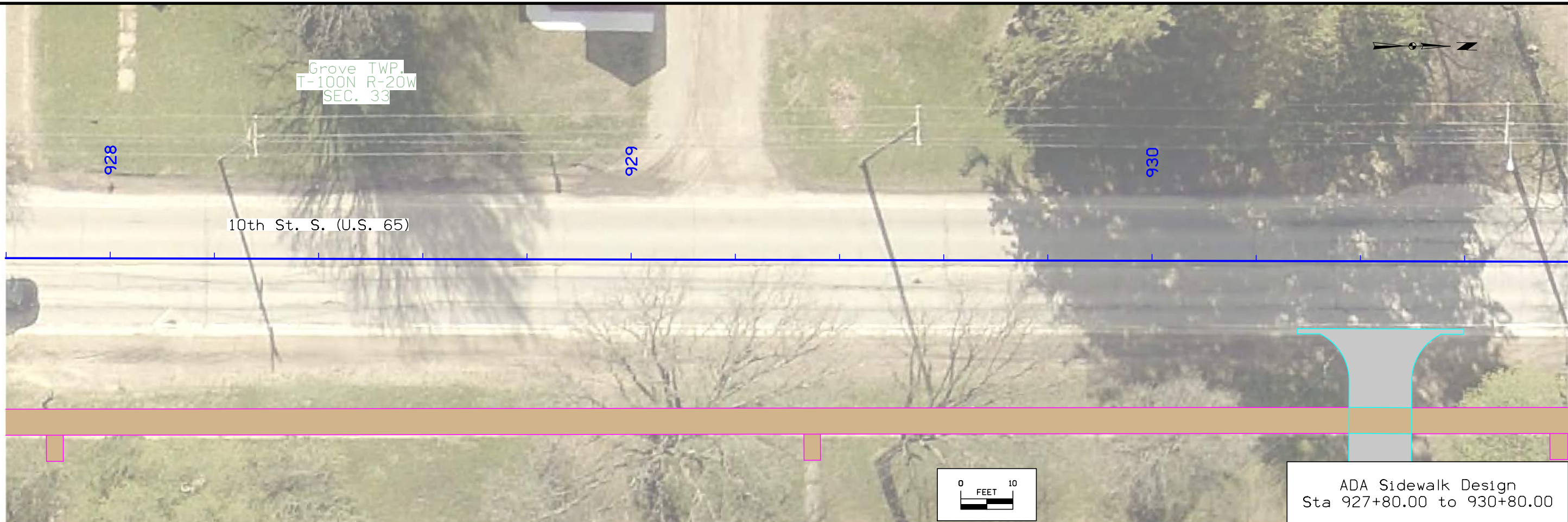
ADA Sidewalk Design
Sta 924+90.00 to 927+90.00

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ADA Sidewalk Design
Profile - Left



ADA Sidewalk Design
Profile - Right



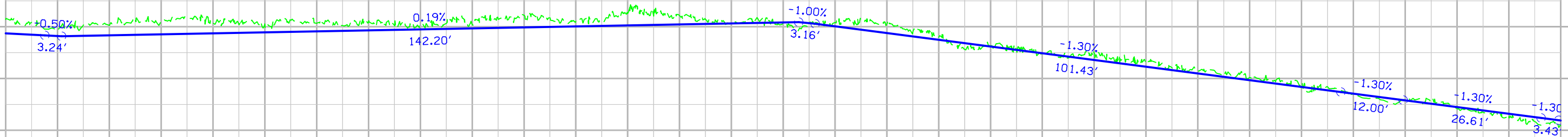
Grove TWP.
T-100N R-20W
SEC. 33

10th St. S. (U.S. 65)

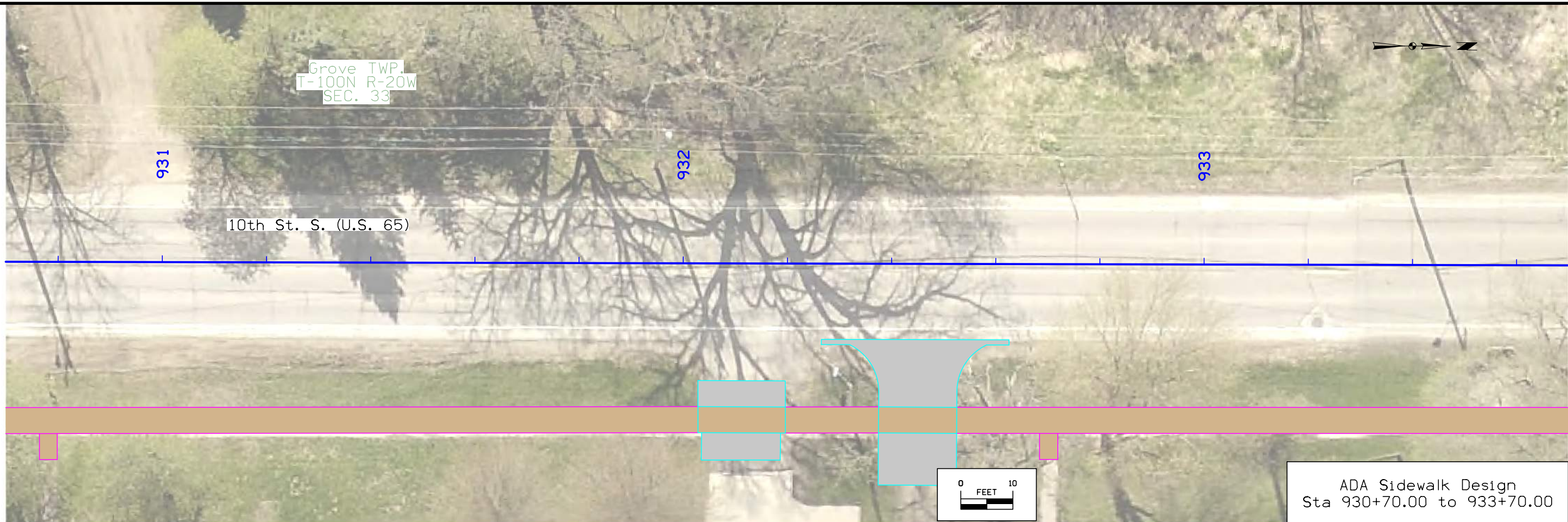
ADA Sidewalk Design
Sta 927+80.00 to 930+80.00

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ADA Sidewalk Design
Profile - Left

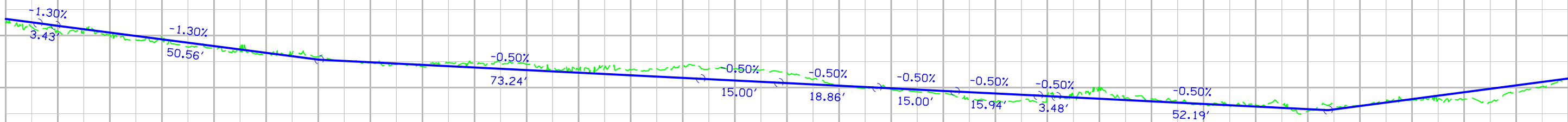


ADA Sidewalk Design
Profile - Right



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ADA Sidewalk Design Profile - Left



ADA Sidewalk Design Profile - Right

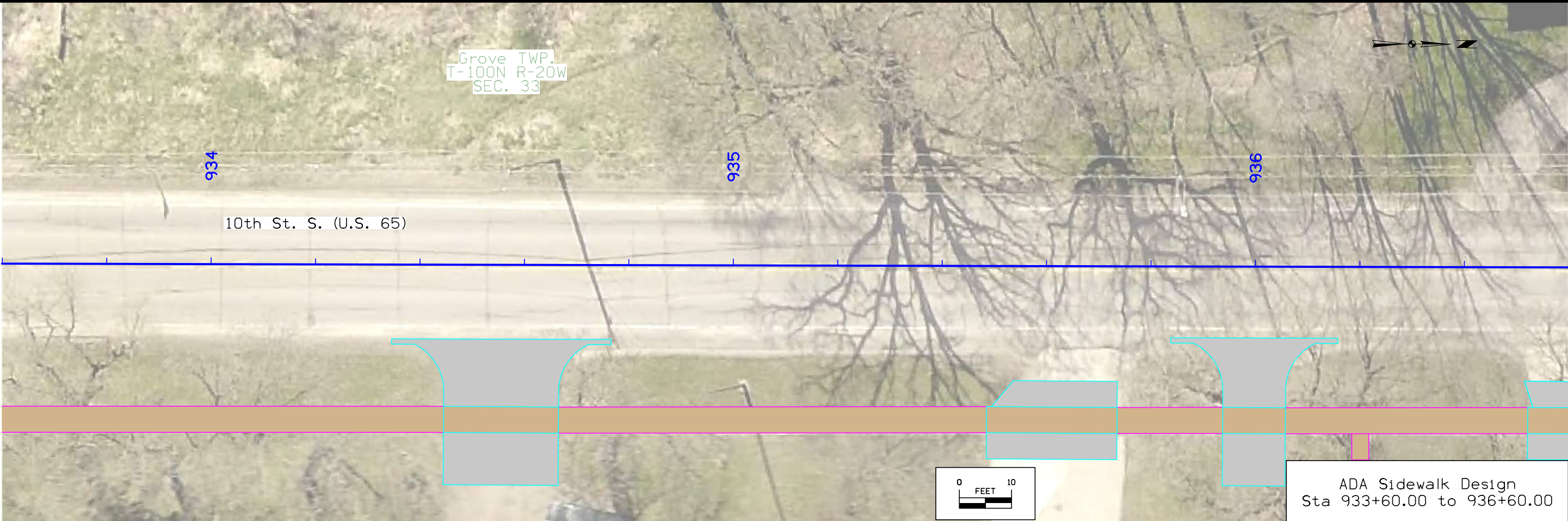
Grove TWP.
T-100N R-20W
SEC. 33

934

935

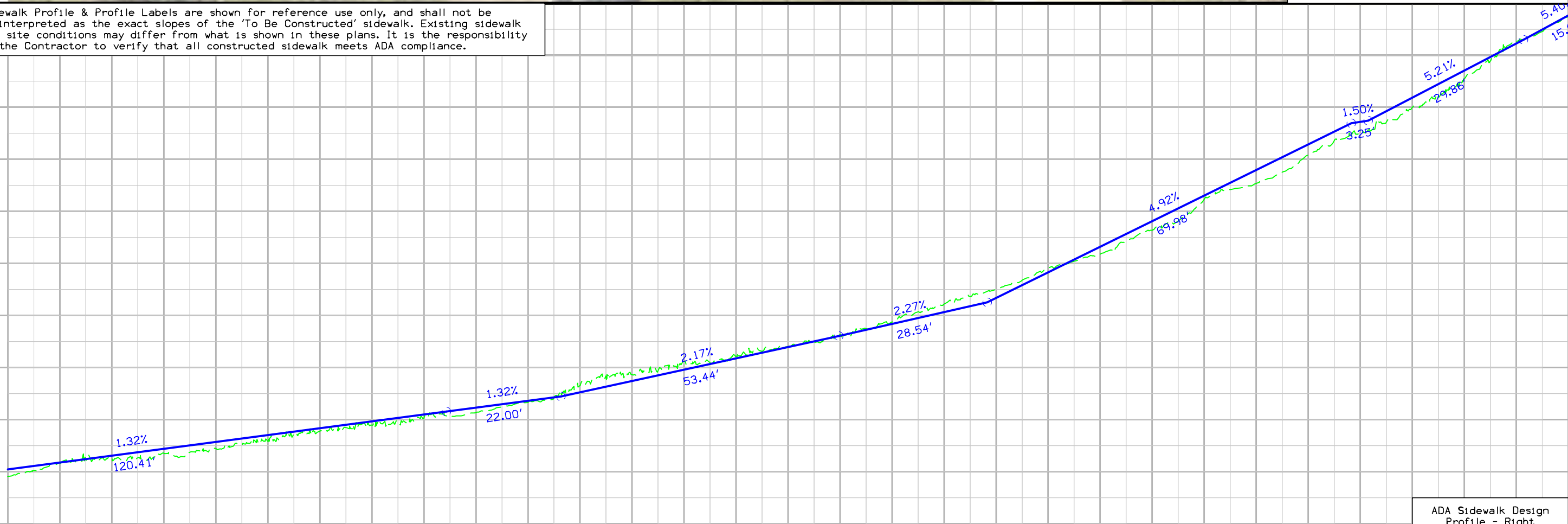
936

10th St. S. (U.S. 65)



ADA Sidewalk Design
Sta 933+60.00 to 936+60.00

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ADA Sidewalk Design
Profile - Right

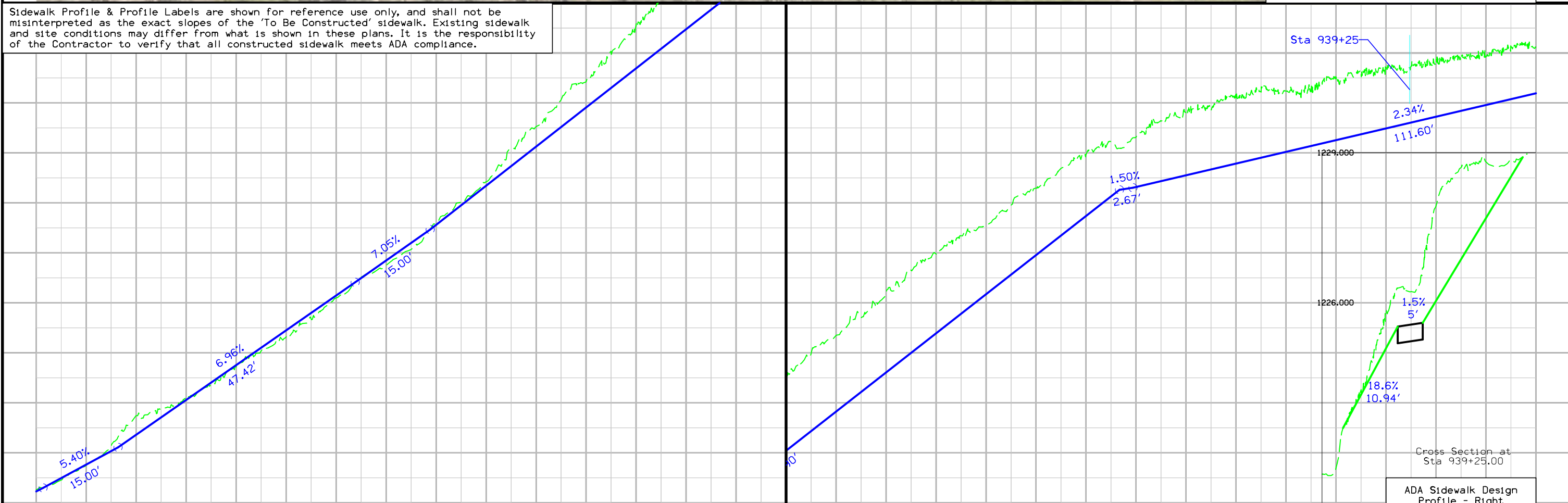


Grove TWP.
T-100N R-20W
SEC. 33

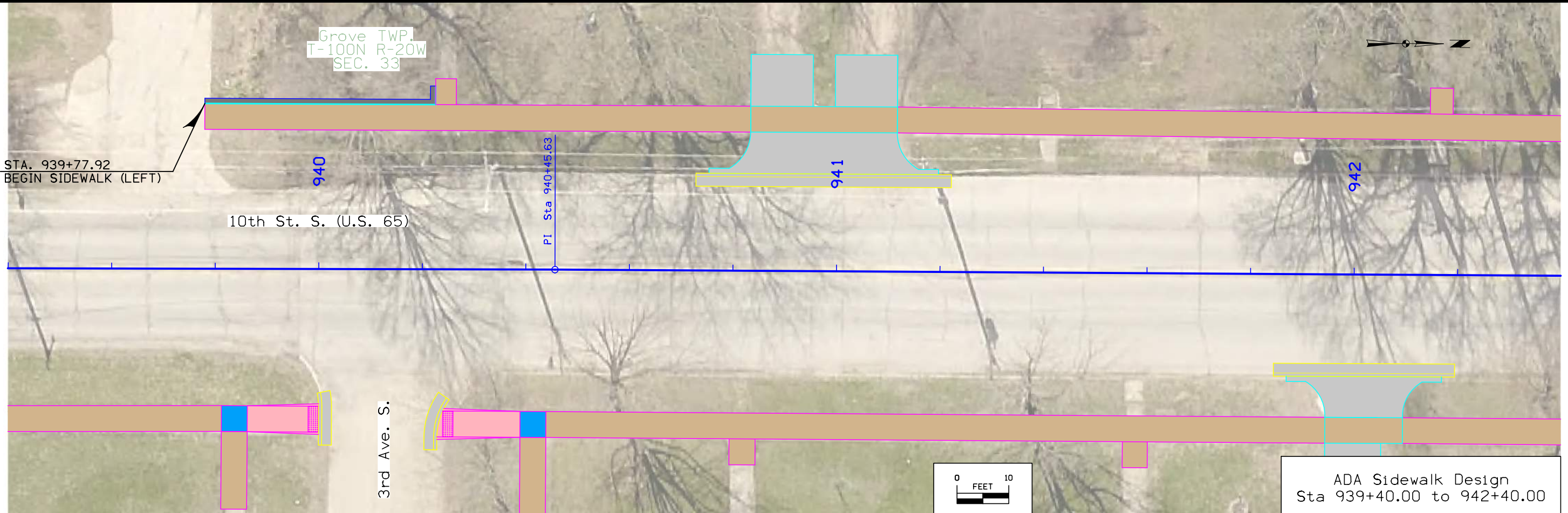
10th St. S. (U.S. 65)

ADA Sidewalk Design
Sta 930+70.00 to 933+70.00

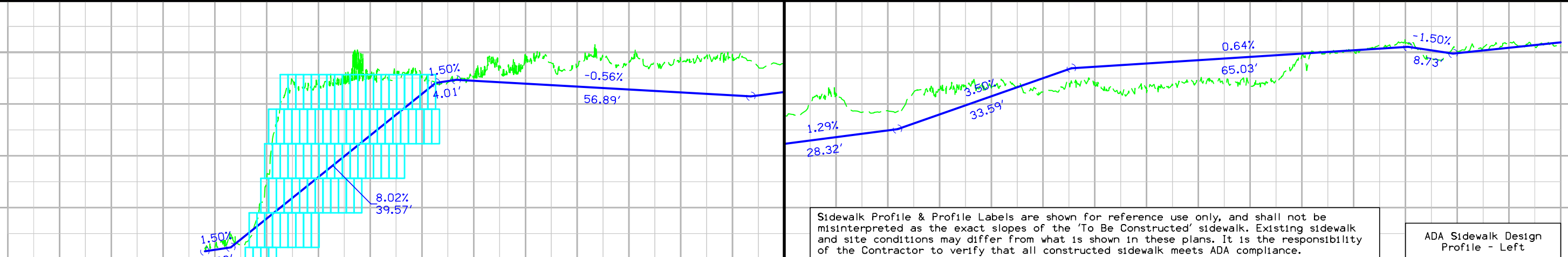
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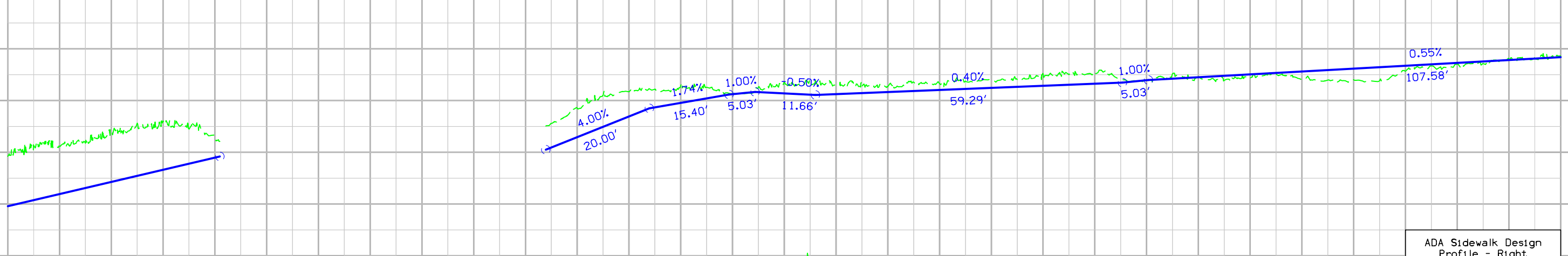
ADA Sidewalk Design
Profile - Right



ADA Sidewalk Design
Sta 939+40.00 to 942+40.00



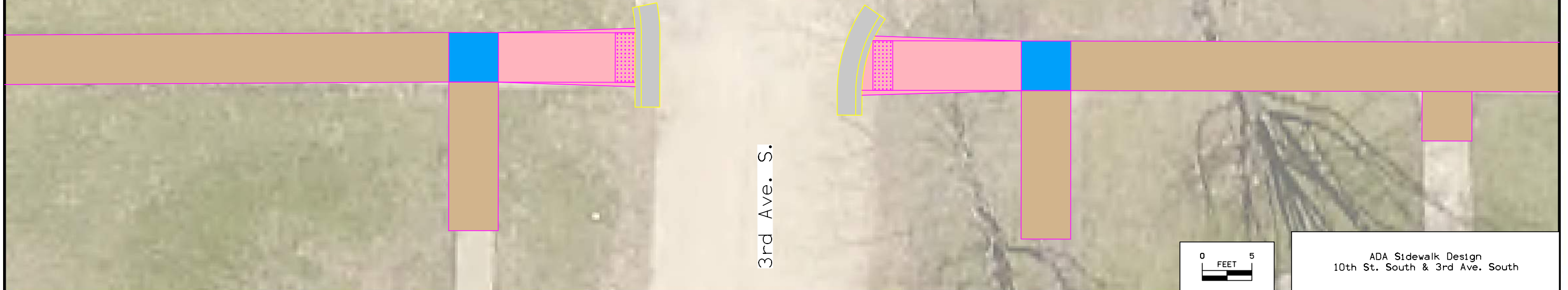
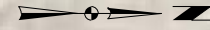
ADA Sidewalk Design
Profile - Left



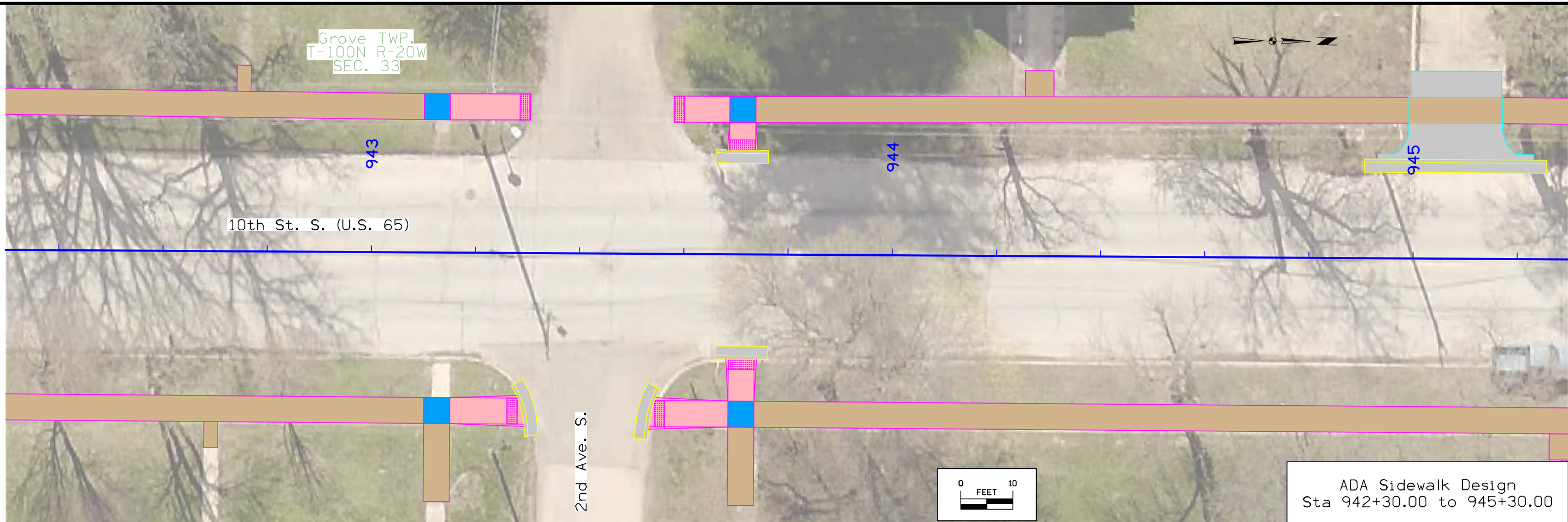
ADA Sidewalk Design
Profile - Right

Grove TWP.
T-100N R-20W
SEC. 33

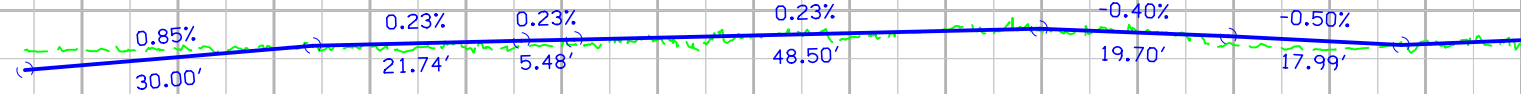
10th St. S. (U.S. 65)



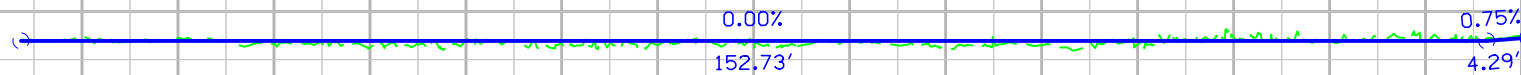
WILL ADD ADA SPREADSHEETS WITH LENGTHS AND SLOPES IN FINAL DESIGN



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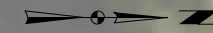
ADA Sidewalk Design Profile - Left



ADA Sidewalk Design Profile - Right

Grove TWP
T-100N R-20W
SEC. 33

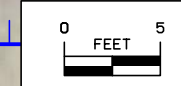
2nd Ave. S.



943

944

10th St. S. (U.S. 65)

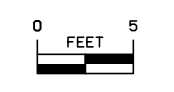
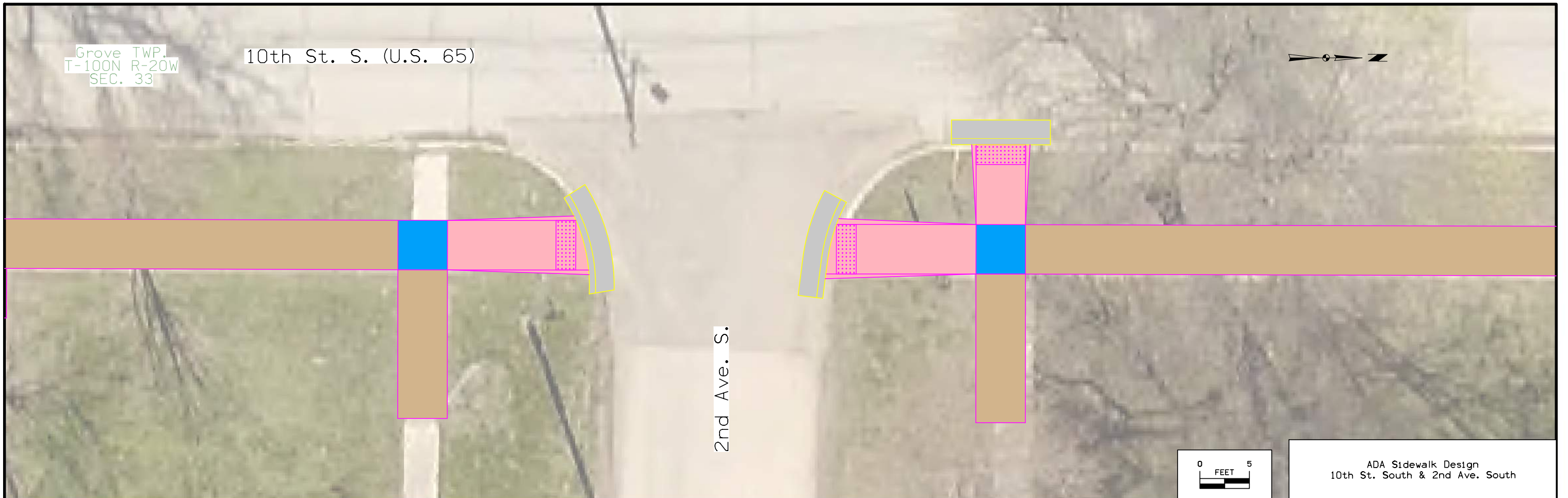
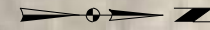


ADA Sidewalk Design
10th St. South & 2nd Ave. South

WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN

Grove TWP.
T-100N R-20W
SEC. 33

10th St. S. (U.S. 65)

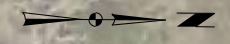


ADA Sidewalk Design
10th St. South & 2nd Ave. South

WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN

Grove TWP.
T-100N R-20W
SEC. 33

1st Ave. S.

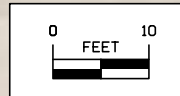


946

947

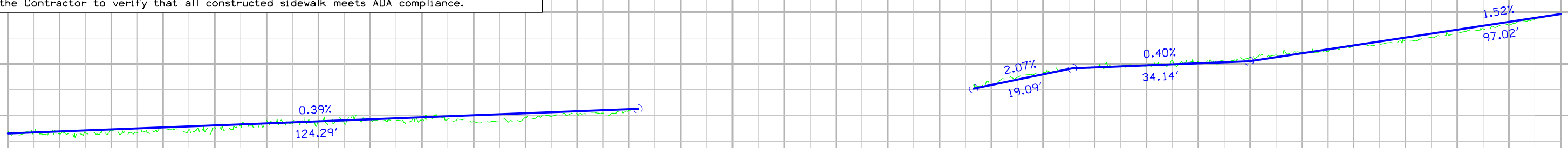
948

10th St. S. (U.S. 65)



ADA Sidewalk Design
Sta 945+20.00 to 948+20.00

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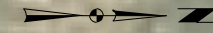
ADA Sidewalk Design
Profile - Left



ADA Sidewalk Design
Profile - Right

Grove TWP.
T-100N R-20W
SEC. 33

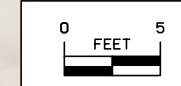
1st Ave. S.



946

947

10th St. S. (U.S. 65)

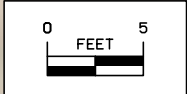
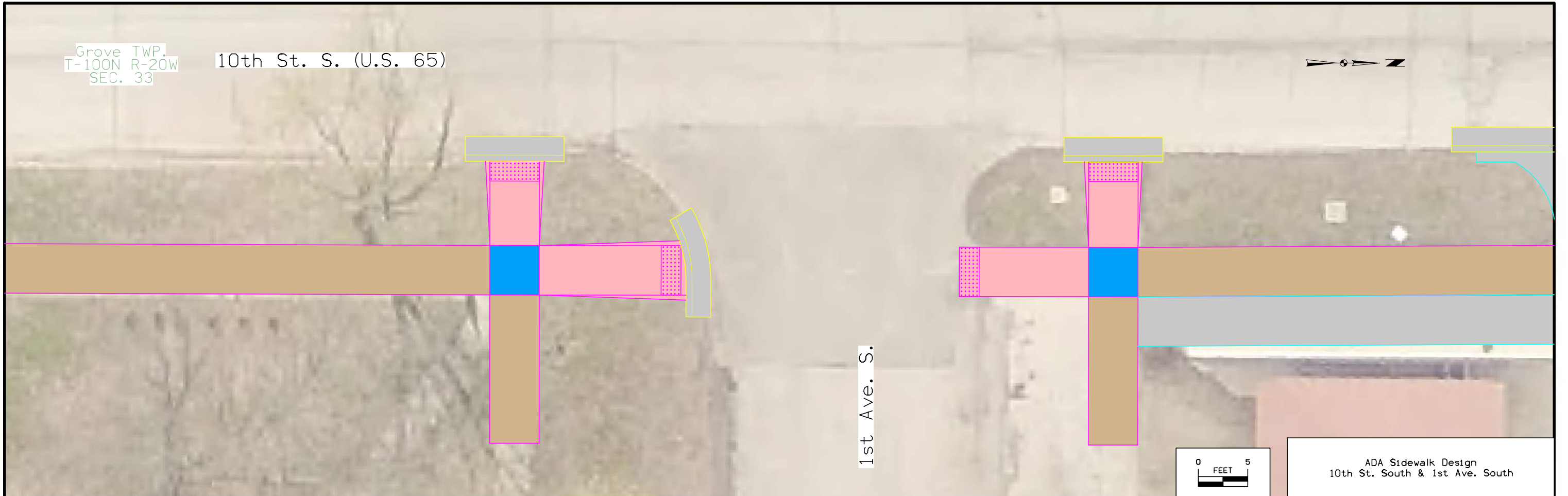
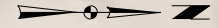


ADA Sidewalk Design
10th St. South & 1st Ave. South

WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN

Grove TWP.
T-100N R-20W
SEC. 33

10th St. S. (U.S. 65)

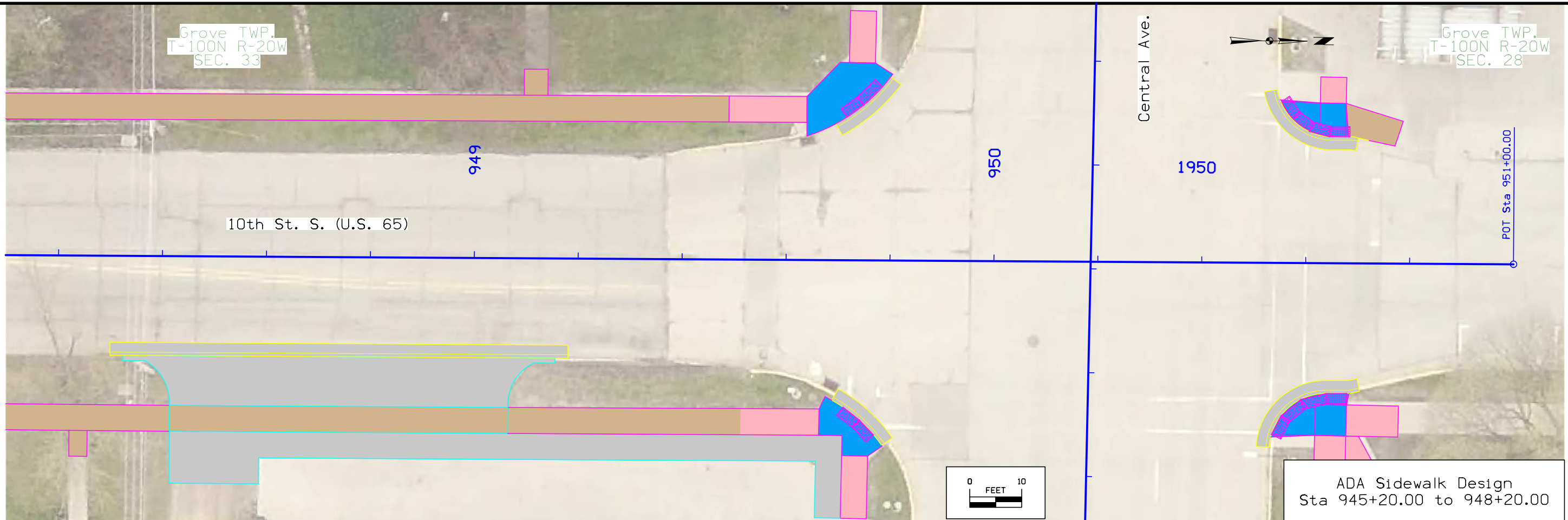


ADA Sidewalk Design
10th St. South & 1st Ave. South

WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN

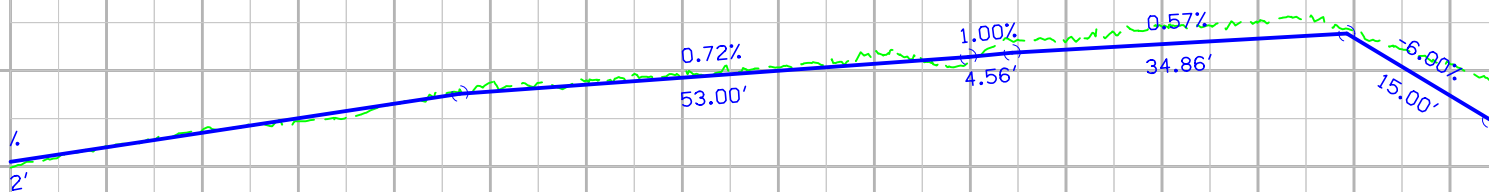
Grove TWP.
T-100N R-20W
SEC. 33

Grove TWP.
T-100N R-20W
SEC. 28

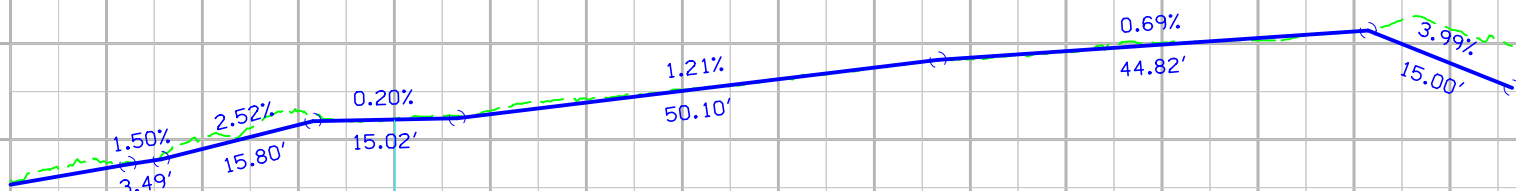


ADA Sidewalk Design
Sta 945+20.00 to 948+20.00

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ADA Sidewalk Design
Profile - Left

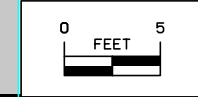


ADA Sidewalk Design
Profile - Right

Grove TWP.
T-100N R-20W
SEC. 33

Central Ave. (U.S. 65)

10th St. S. (U.S. 65)



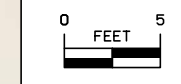
ADA Sidewalk Design
10th St. South & Central Ave.

WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN

Grove TWP.
T-100N R-20W
SEC. 28

10th St. N.

Central Ave. (U.S. 65)

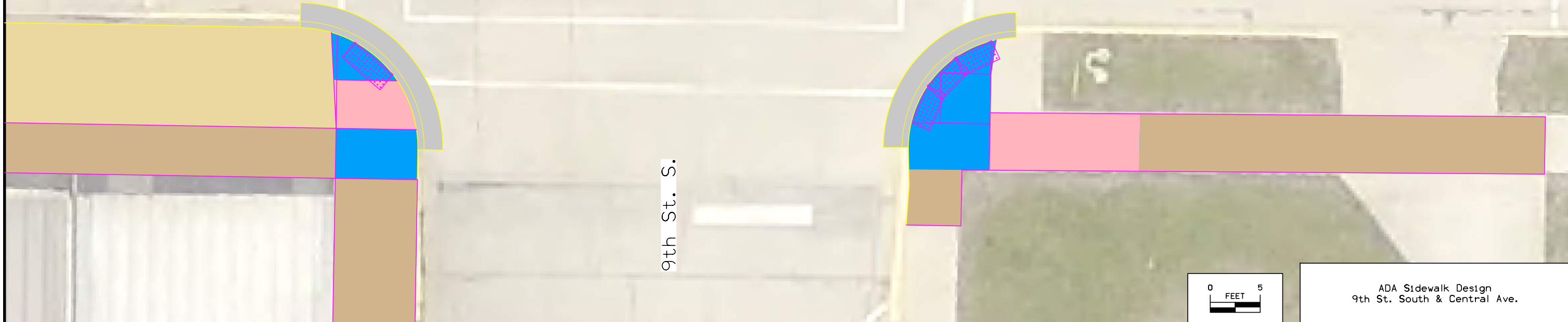


ADA Sidewalk Design
10th St. North & Central Ave.

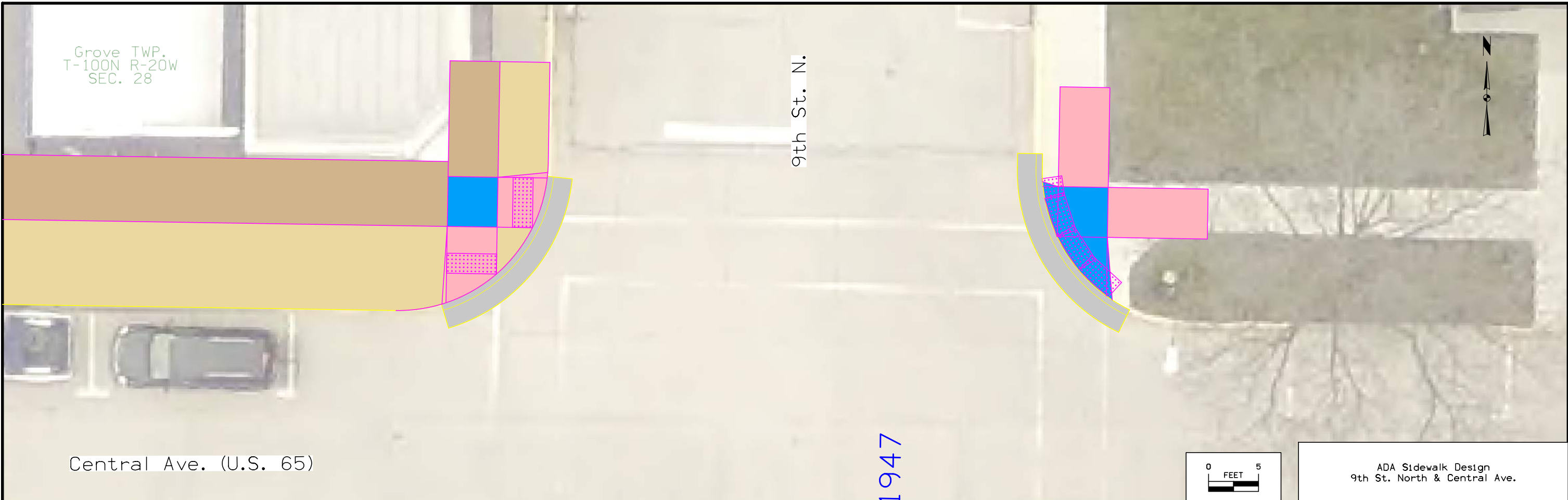
WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN

Grove TWP.
T-100N R-20W
SEC. 33

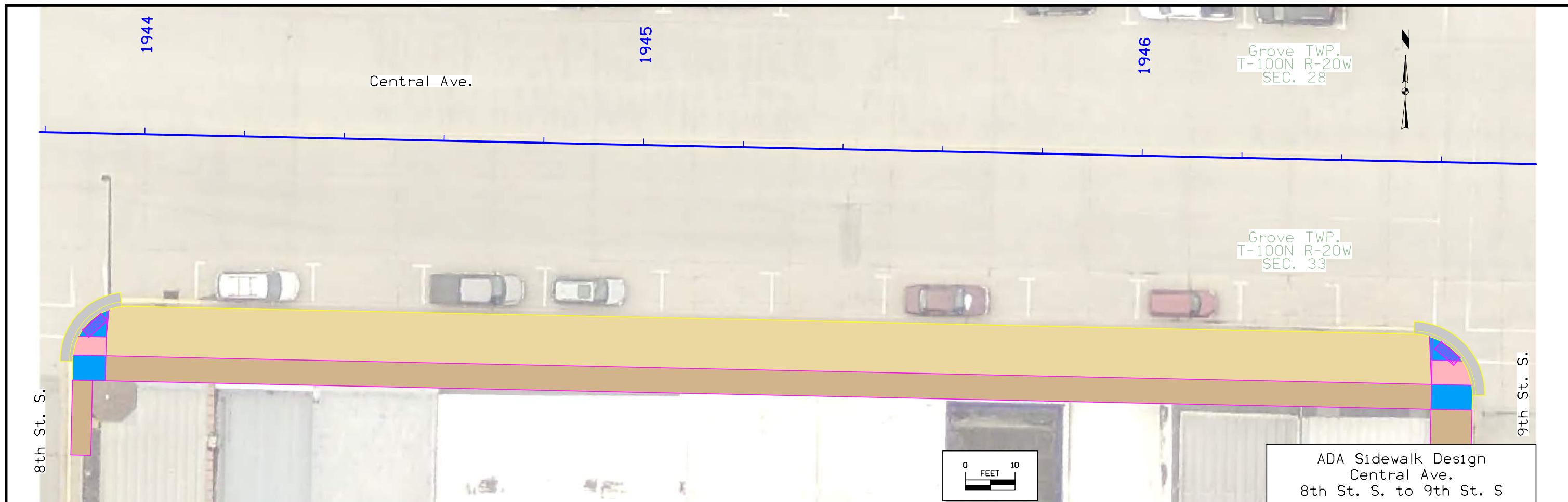
Central Ave. (U.S. 65)



WILL ADD ADA SPREADSHEETS WITH LENGTHS AND SLOPES IN FINAL DESIGN

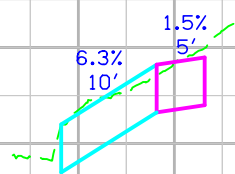
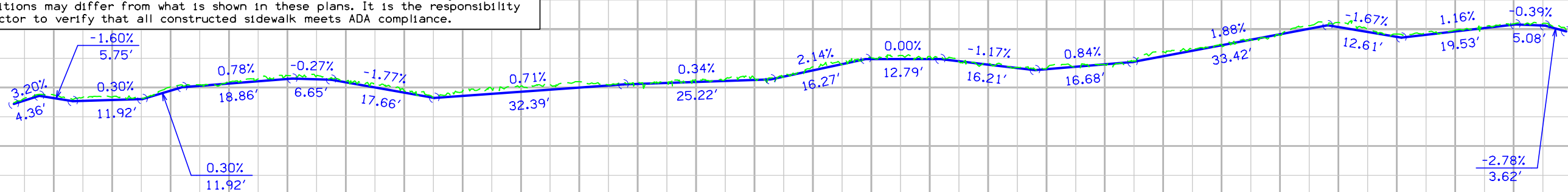


WILL ADD ADA SPREADSHEETS WITH LENGTHS AND SLOPES IN FINAL DESIGN

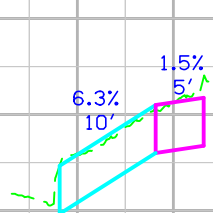


ADA Sidewalk Design
Central Ave.
8th St. S. to 9th St. S

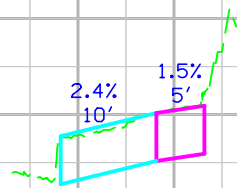
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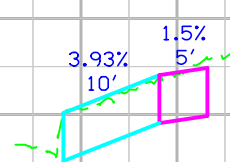
Cross Section at
Sta 1943+97.52



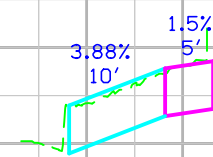
Cross Section at
Sta 1944+47.52



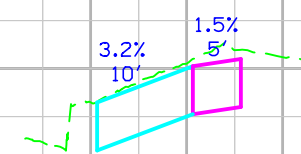
Cross Section at
Sta 1944+97.52



Cross Section at
Sta 1945+55.23



Cross Section at
Sta 1946+05.23



Cross Section at
Sta 1946+55.23

ADA Sidewalk Design
Profile - Right

Grove TWP.
T-100N R-20W
SEC. 28

8th St. S.

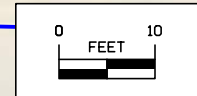
9th St. S.

1944

1945

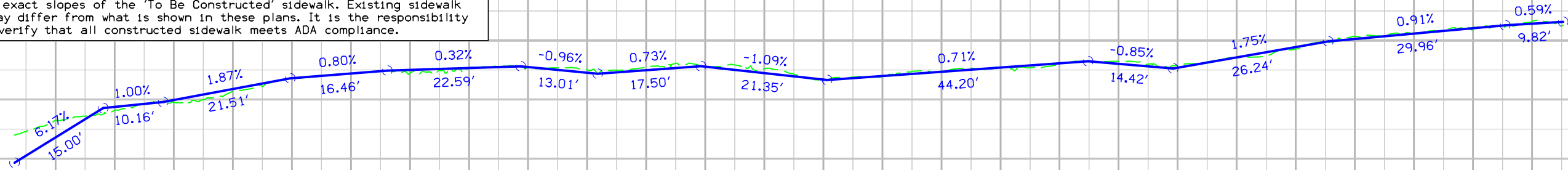
1946

Central Ave.

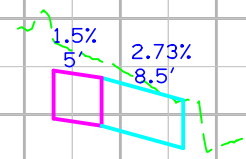


ADA Sidewalk Design
Central Ave.
8th St. S. to 9th St. S

Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.



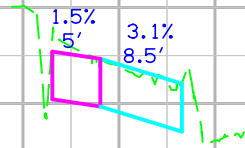
Profile taken at 2.5' south of back of sidewalk



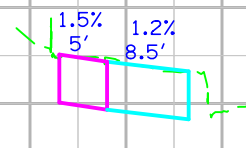
Cross Section at
Sta 1944+00.98



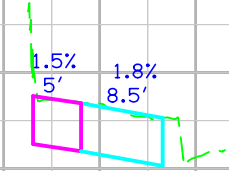
Cross Section at
Sta 1944+50.98



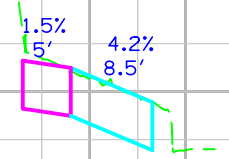
Cross Section at
Sta 1945+00.98



Cross Section at
Sta 1945+50.30



Cross Section at
Sta 1946+00.30



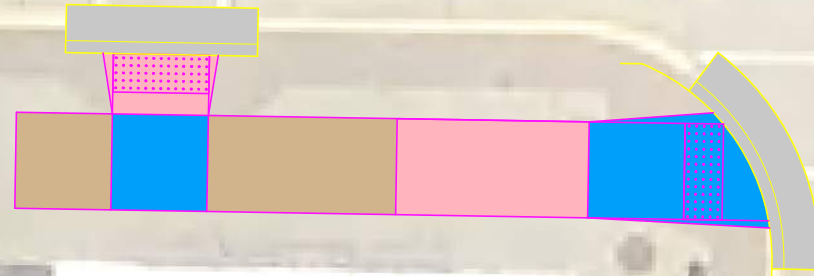
Cross Section at
Sta 1946+50.30

ADA Sidewalk Design
Profile - Left

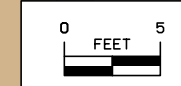
Grove TWP.
T-100N R-20W
SEC. 32

Central Ave.

Grove TWP.
T-100N R-20W
SEC. 33



8th St. S.

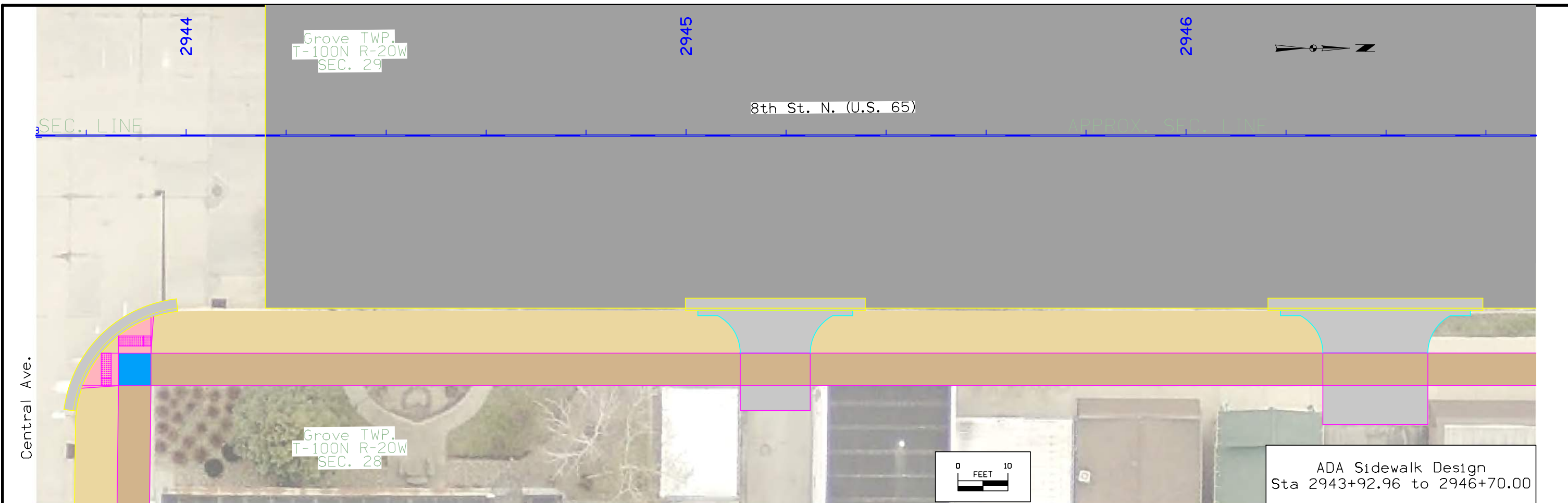


ADA Sidewalk Design
8th St. South & Central Ave.

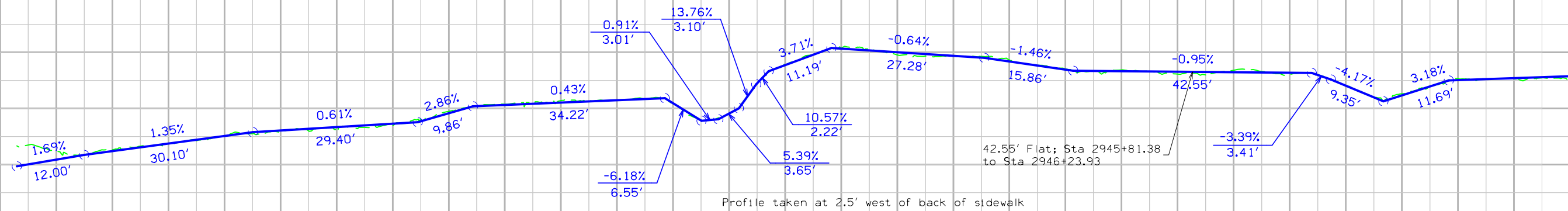
WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN



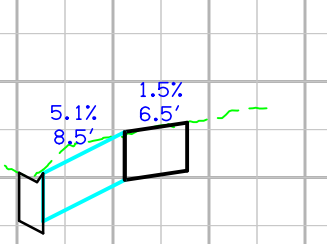
WILL ADD ADA SPREADSHEETS WITH LENGTHS AND SLOPES IN FINAL DESIGN



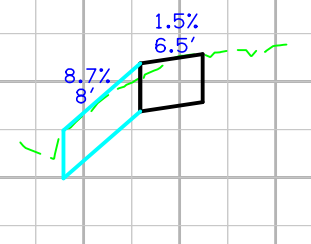
Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.



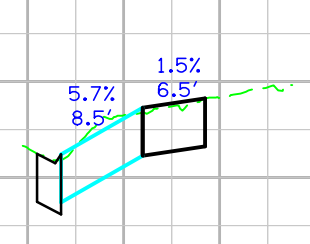
Profile taken at 2.5' west of back of sidewalk



Cross Section at Low Spot Sta 2946+37.86

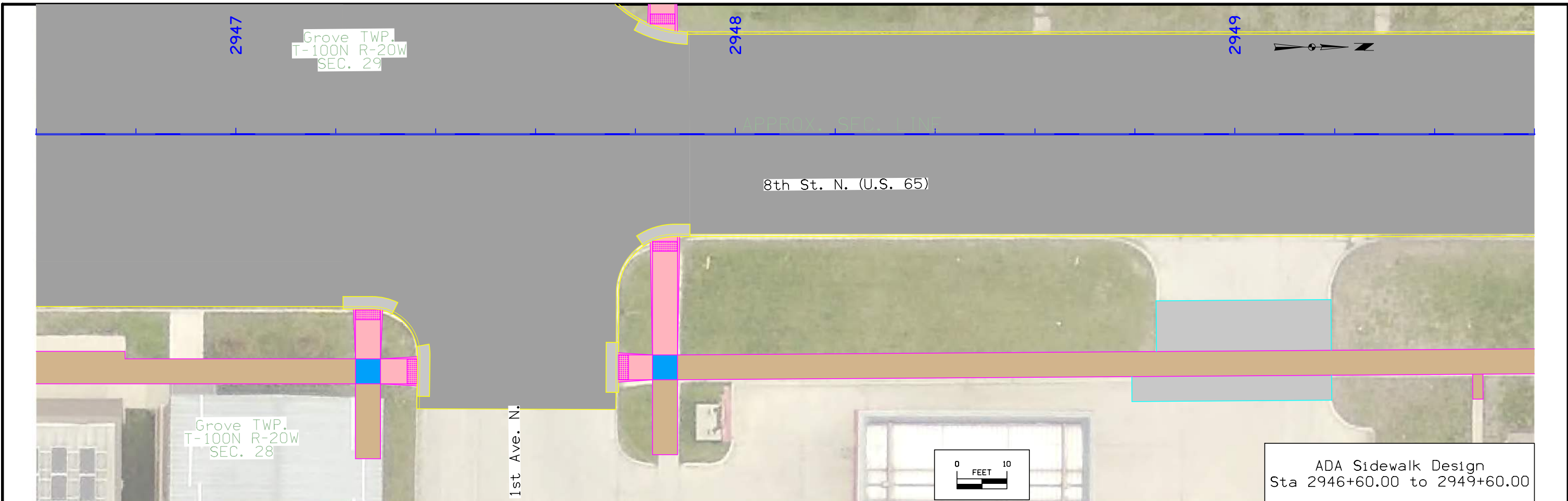


Cross Section at Flat Spot Sta 2946+02.66



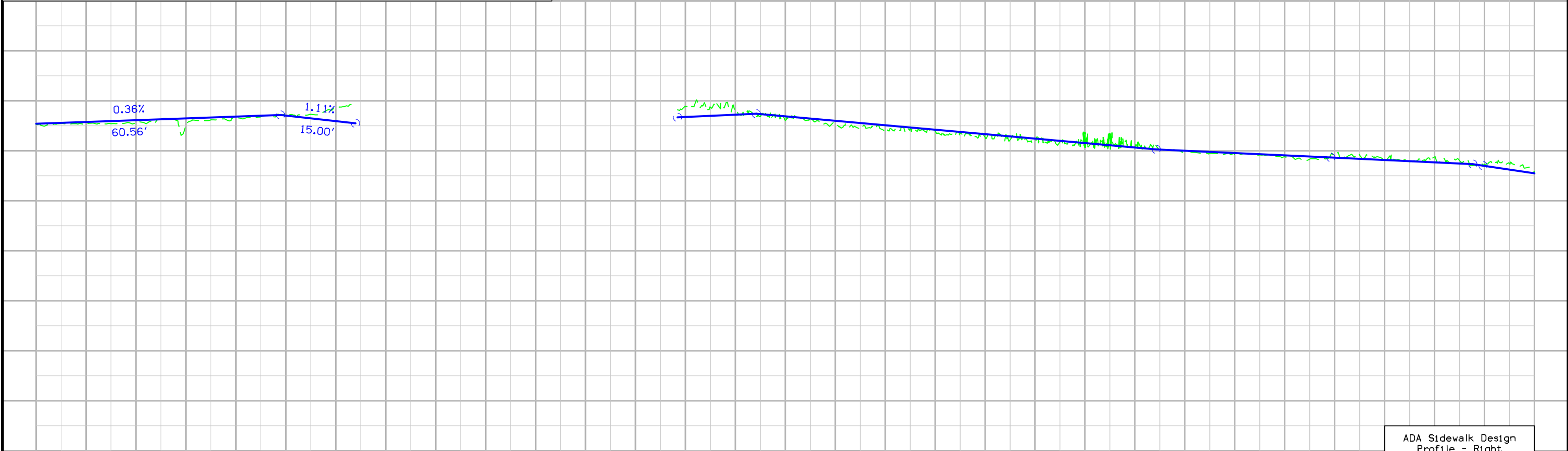
Cross Section at Low Spot Sta 2945+17.84

ADA Sidewalk Design Profile - Right



ADA Sidewalk Design
Sta 2946+60.00 to 2949+60.00

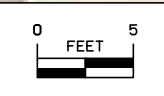
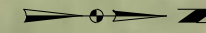
Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.



ADA Sidewalk Design
Profile - Right

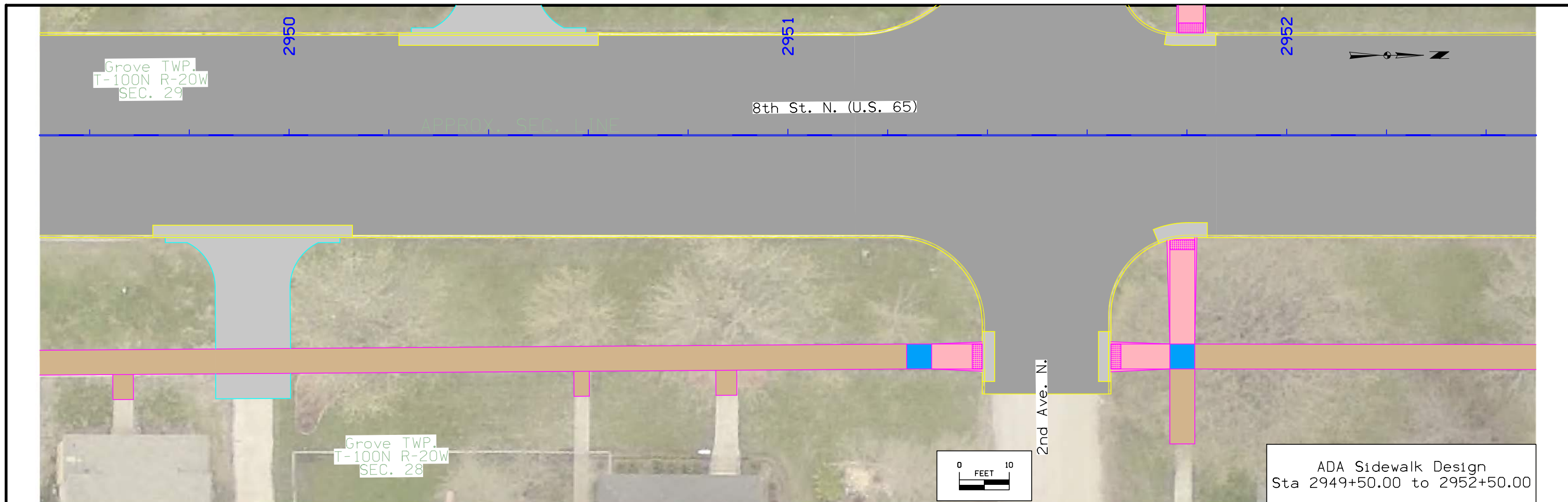
8th St. N. (U.S. 65)

Grove TWP.
T-100N R-20W
SEC. 28

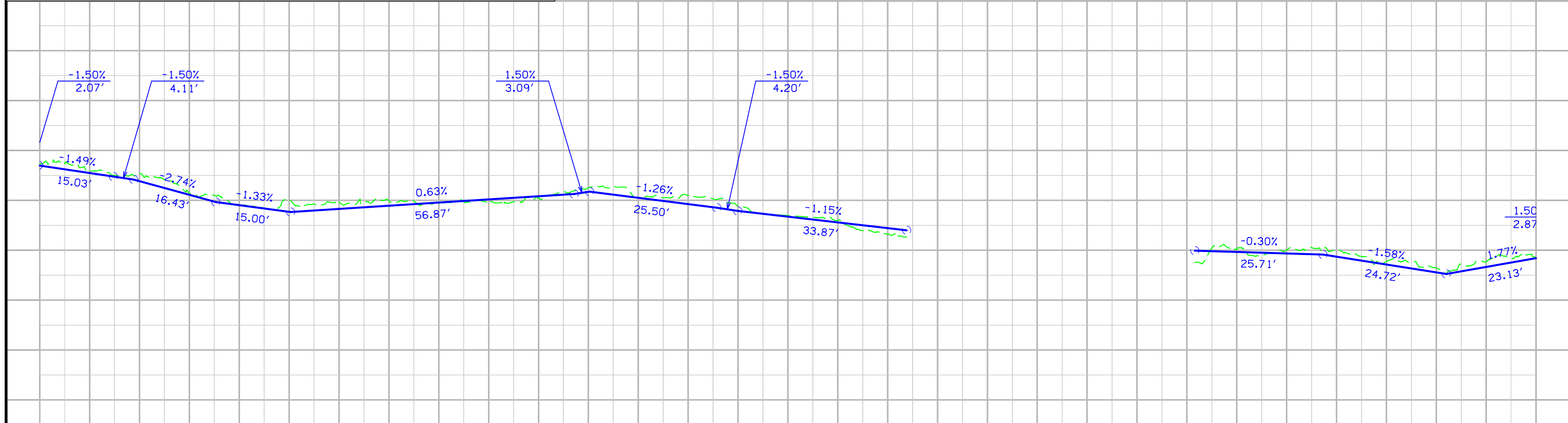


ADA Sidewalk Design
8th St. North & 1st Ave. North

WILL ADD ADA SPREADSHEETS WITH LENGTHS AND SLOPES IN FINAL DESIGN



Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.

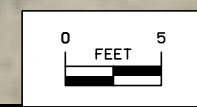


ADA Sidewalk Design
Profile - Right

8th St. N. (U.S. 65)

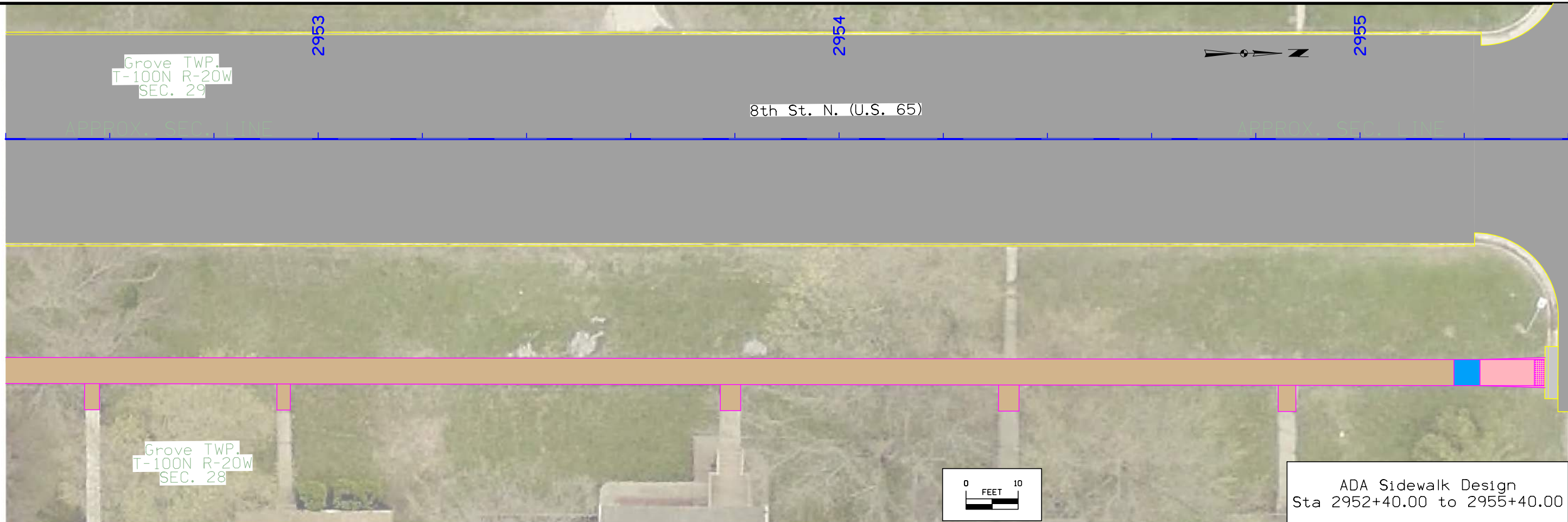
Grove TWP.
T-100N R-20W
SEC. 28

2nd Ave. N.



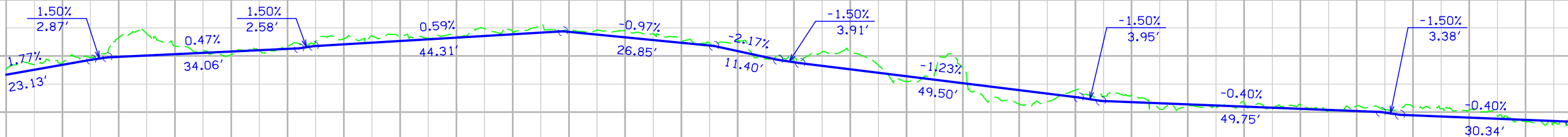
ADA Sidewalk Design
8th St. North & 2nd Ave. North

WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN

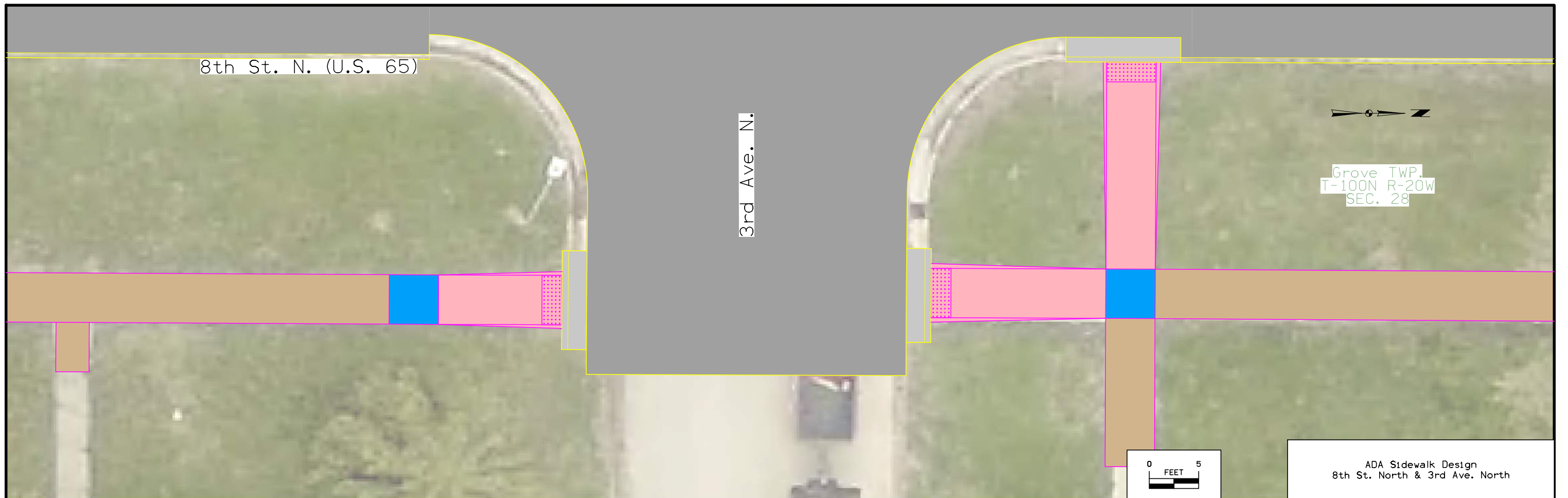


ADA Sidewalk Design
Sta 2952+40.00 to 2955+40.00

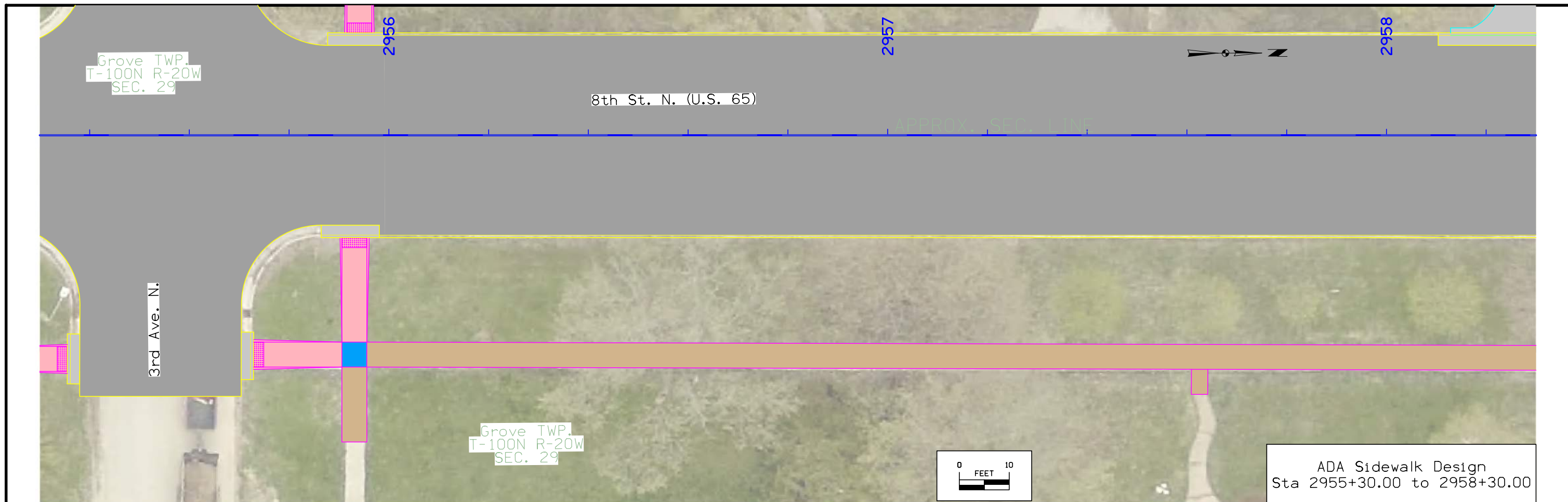
Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.



ADA Sidewalk Design
Profile - Right

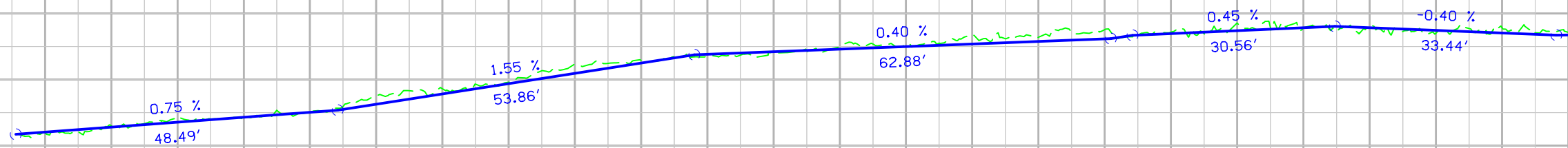


WILL ADD ADA SPREADSHEETS WITH LENGTHS AND SLOPES IN FINAL DESIGN

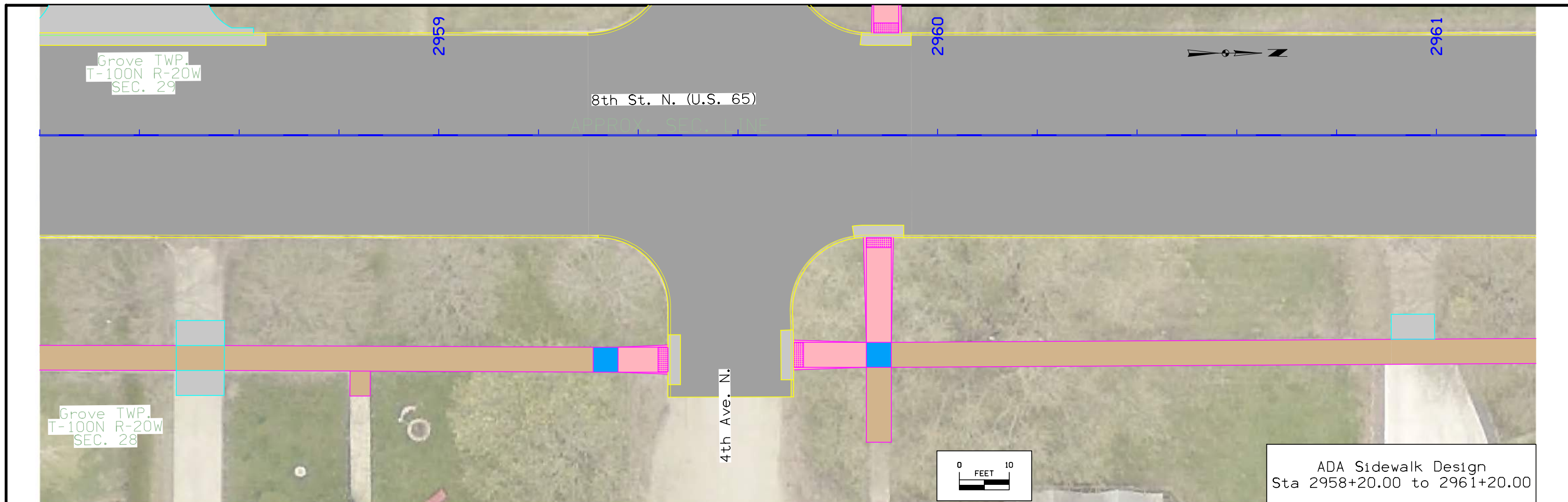


ADA Sidewalk Design
Sta 2955+30.00 to 2958+30.00

Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.



ADA Sidewalk Design
Profile - Right

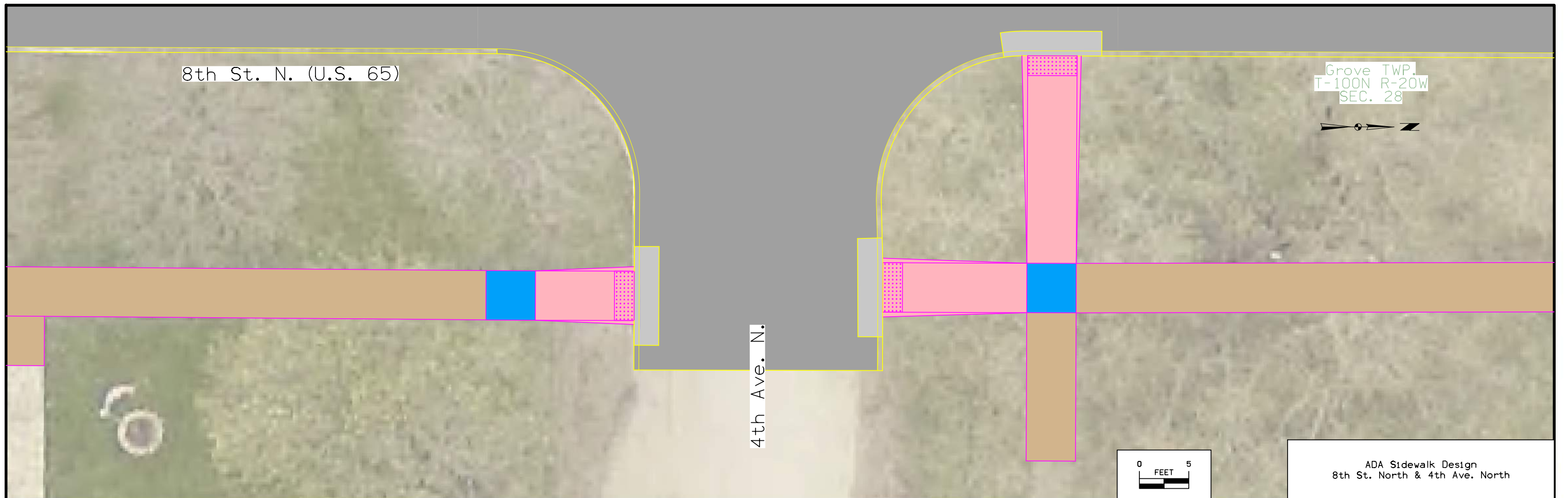


ADA Sidewalk Design
Sta 2958+20.00 to 2961+20.00

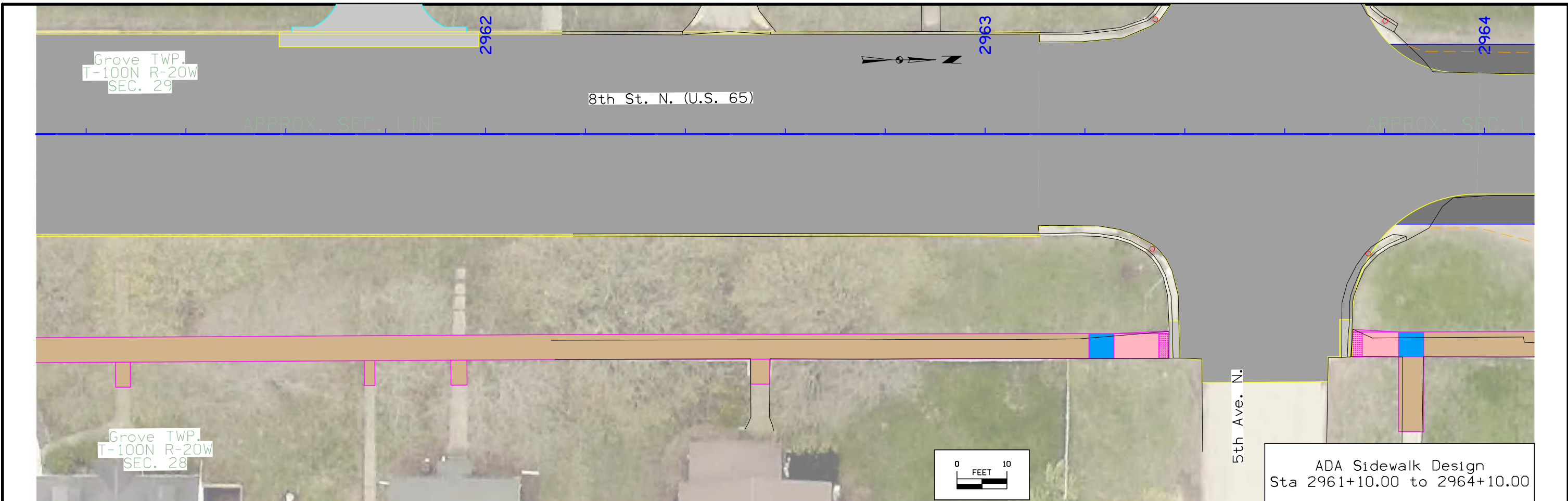
Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.



ADA Sidewalk Design
Profile - Right

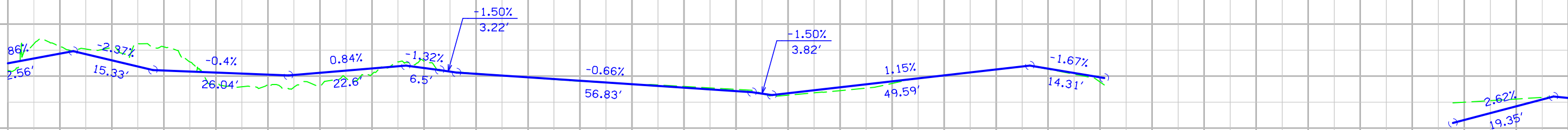


WILL ADD ADA SPREADSHEETS WITH LENGTHS AND SLOPES IN FINAL DESIGN



ADA Sidewalk Design
Sta 2961+10.00 to 2964+10.00

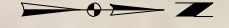
Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.



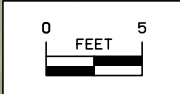
ADA Sidewalk Design
Profile - Right

8th St. N. (U.S. 65)

Grove TWP.
T-100N R-20W
SEC. 28

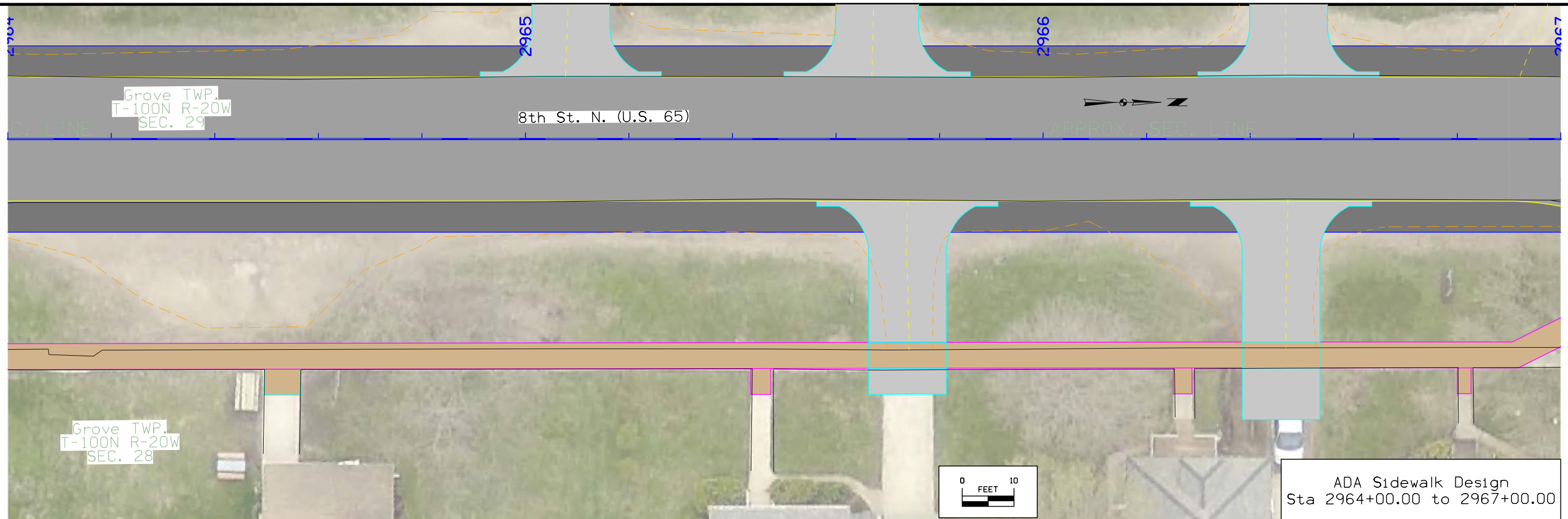


5th Ave. N.



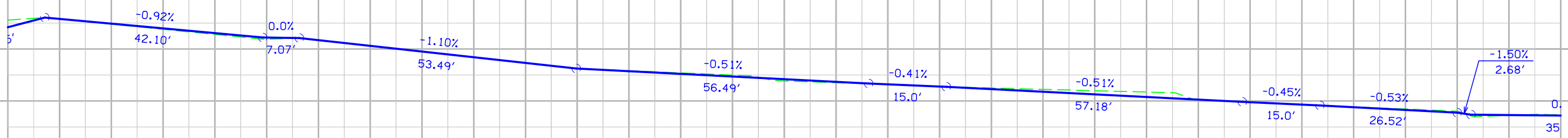
ADA Sidewalk Design
8th St. North & 5th Ave. North

WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN

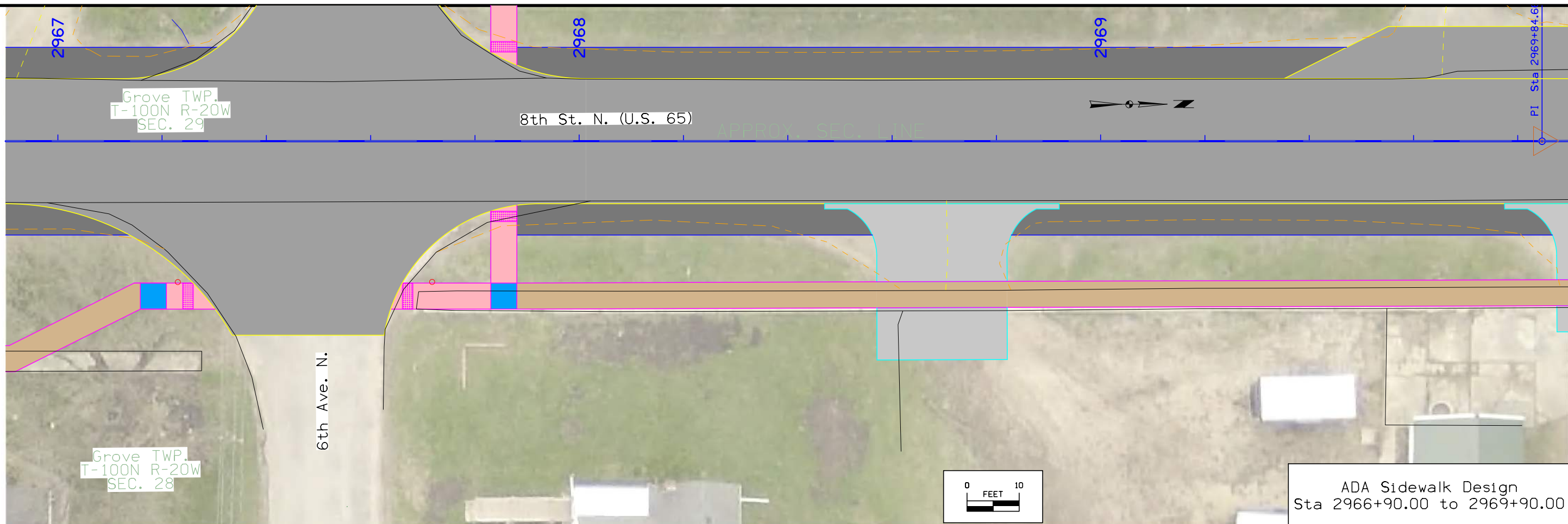


ADA Sidewalk Design
Sta 2964+00.00 to 2967+00.00

Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.

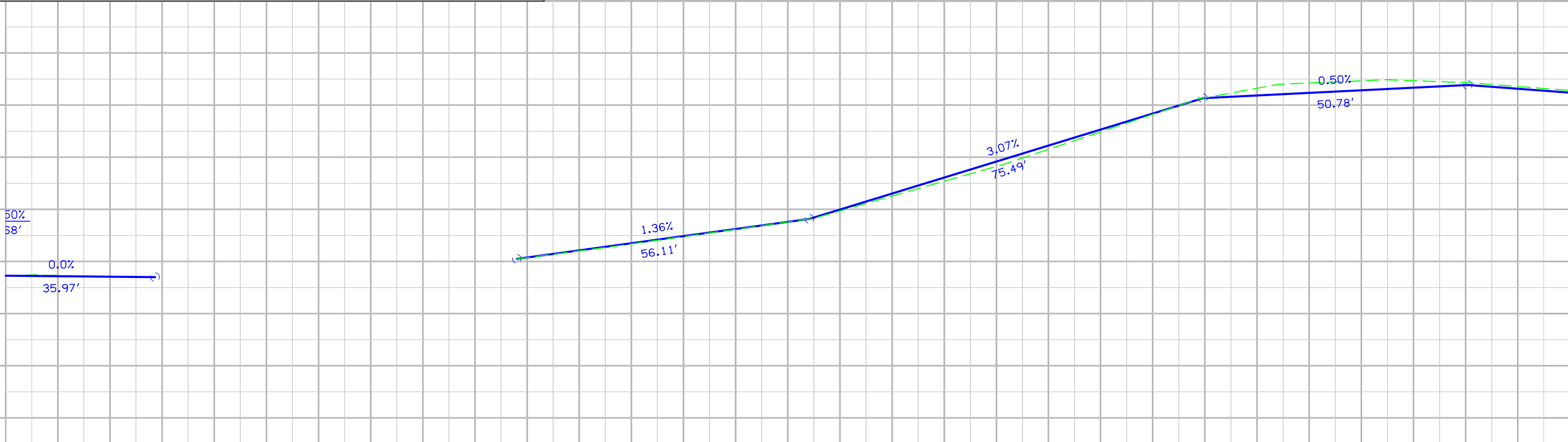


ADA Sidewalk Design
Profile - Right



ADA Sidewalk Design
Sta 2966+90.00 to 2969+90.00

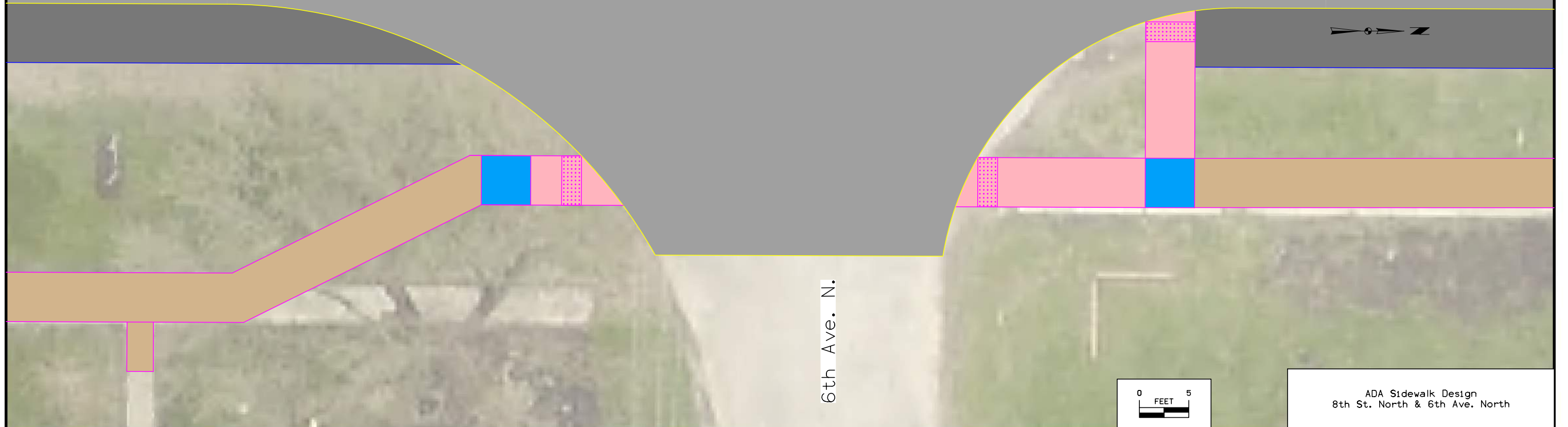
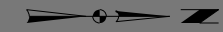
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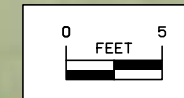
ADA Sidewalk Design
Profile - Right

8th St. N. (U.S. 65)

Grove TWP.
T-100N R-20W
SEC. 28

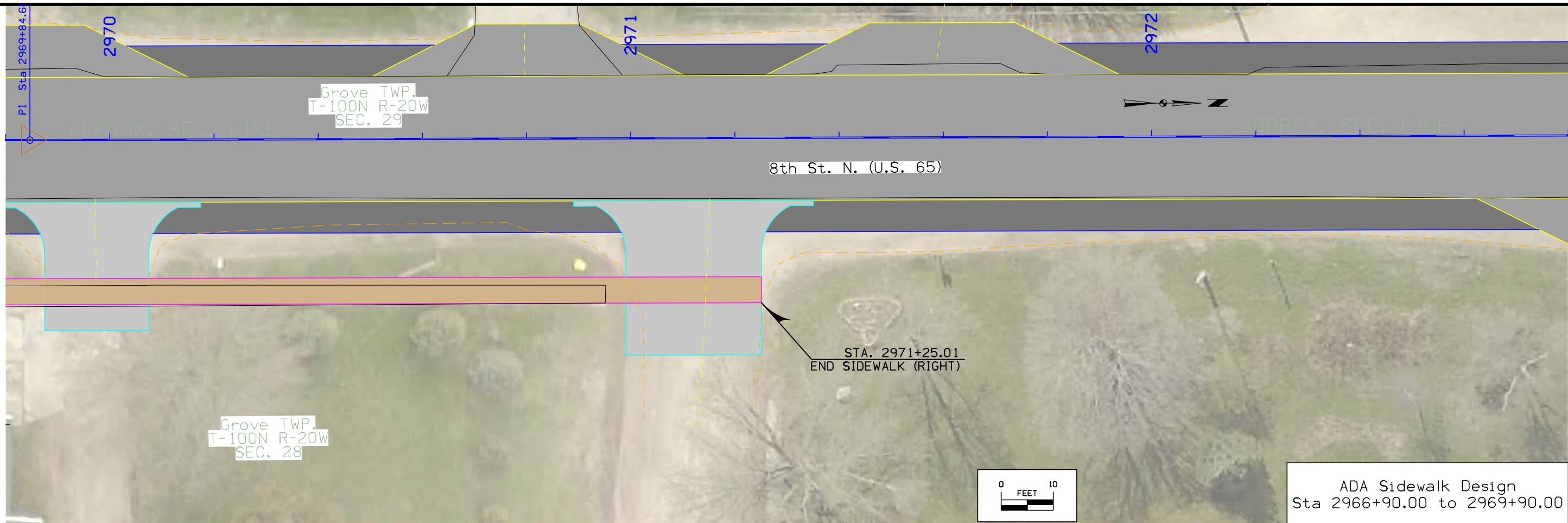


6th Ave. N.

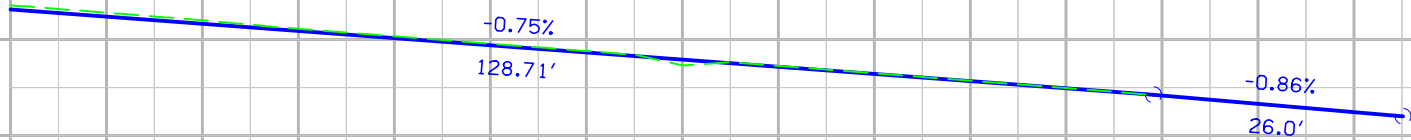


ADA Sidewalk Design
8th St. North & 6th Ave. North

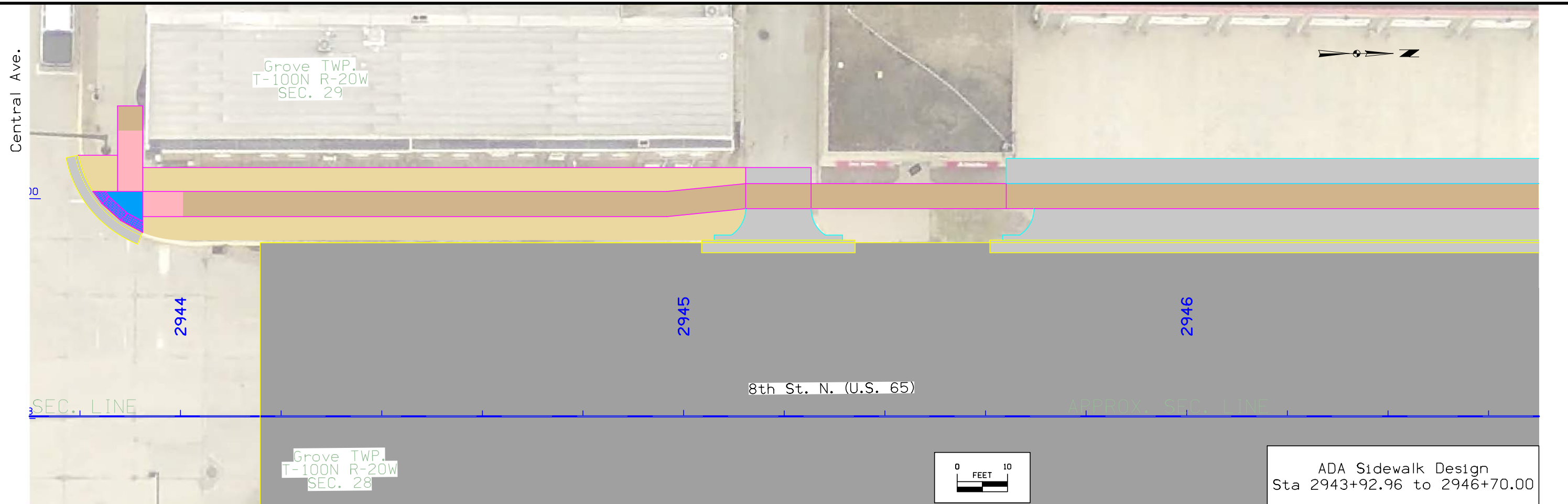
WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN



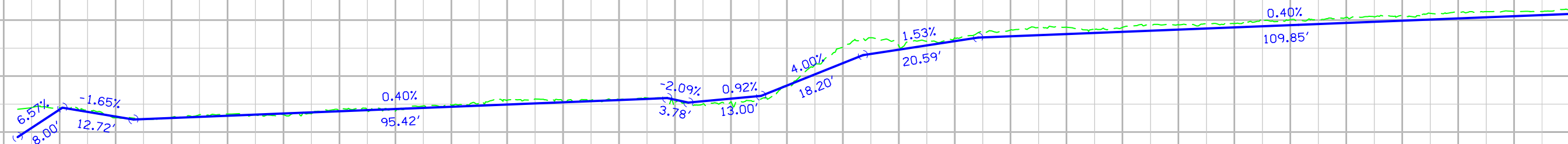
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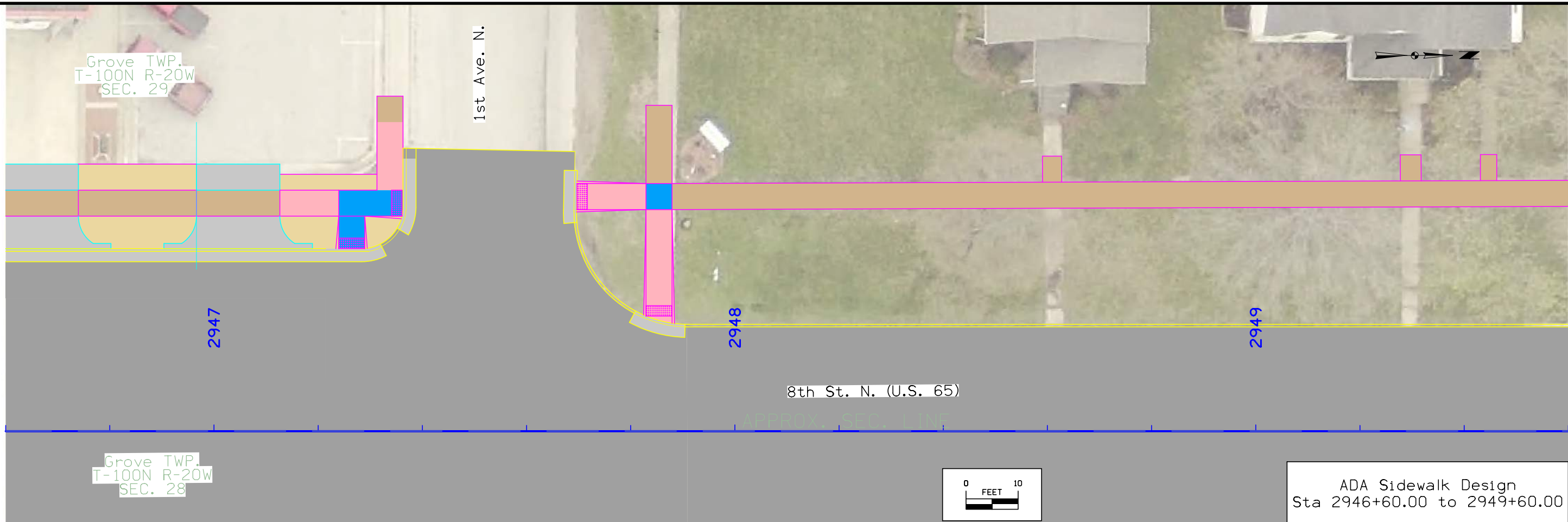
ADA Sidewalk Design
Profile - Right



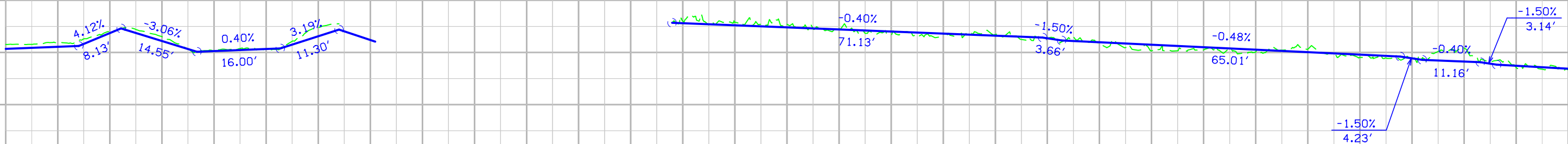
Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.



ADA Sidewalk Design
Profile - Left



Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.



ADA Sidewalk Design
Profile - Left

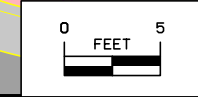
Grove TWP.
T-100N R-20W
SEC. 29



1st Ave. N.

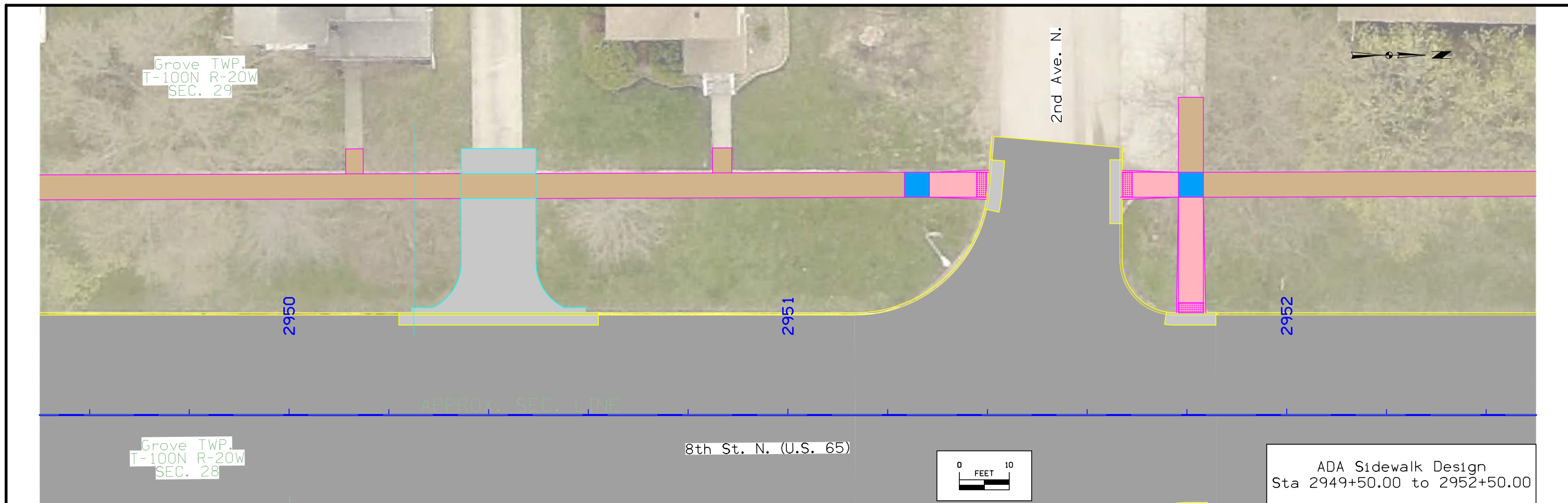
8th St. N. (U.S. 65)

2947

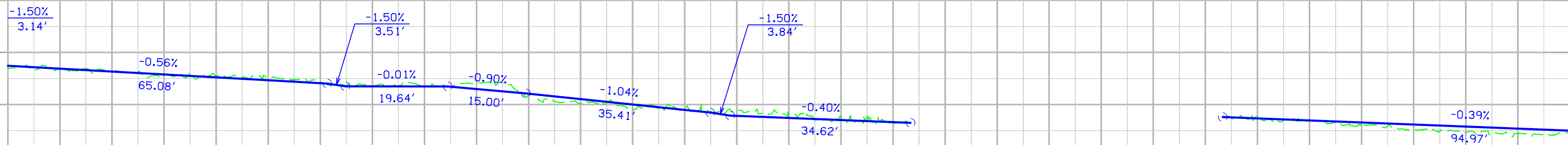


ADA Sidewalk Design
8th St. North & 1st Ave. North

WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN

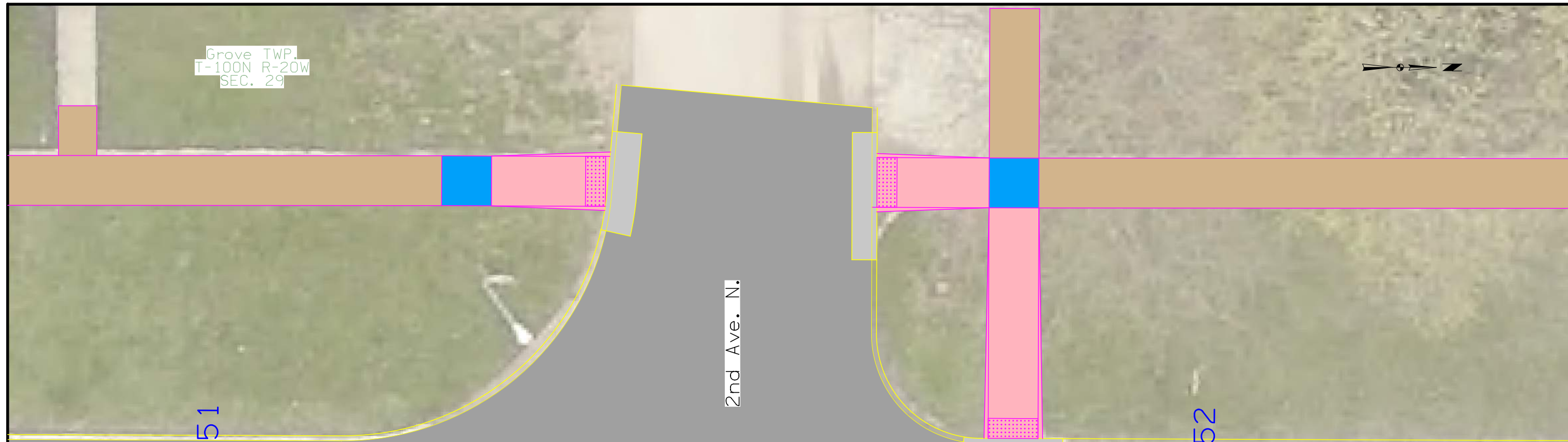
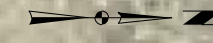


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ADA Sidewalk Design
Profile - Left

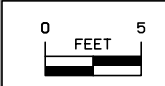
Grove TWP.
T-100N R-20W
SEC. 29



2951

8th St. N. (U.S. 65)

2nd Ave. N.

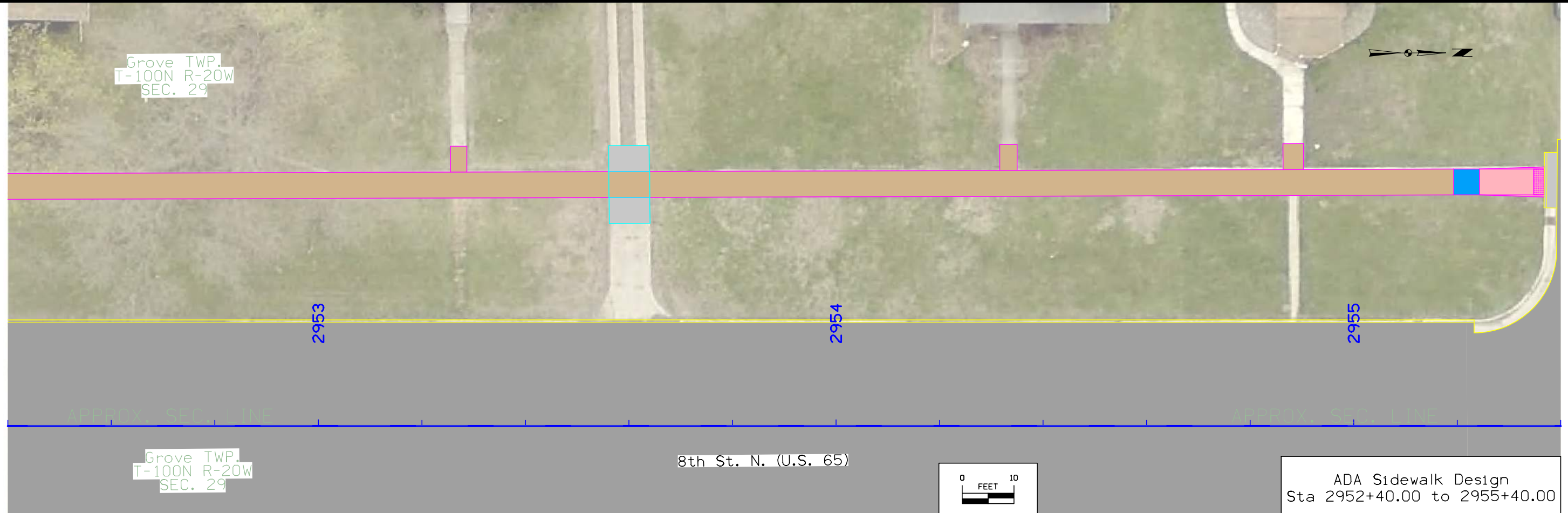
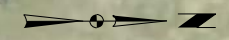


2952

ADA Sidewalk Design
8th St. North & 2nd Ave. North

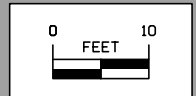
WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN

Grove TWP.
T-100N R-20W
SEC. 29



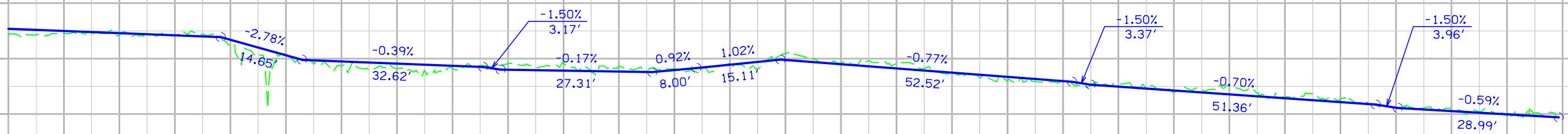
Grove TWP.
T-100N R-20W
SEC. 29

8th St. N. (U.S. 65)



ADA Sidewalk Design
Sta 2952+40.00 to 2955+40.00

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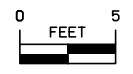
ADA Sidewalk Design
Profile - Left

Grove TWP.
T-100N R-20W
SEC. 29

3rd Ave. N.

2955

8th St. N. (U.S. 65)

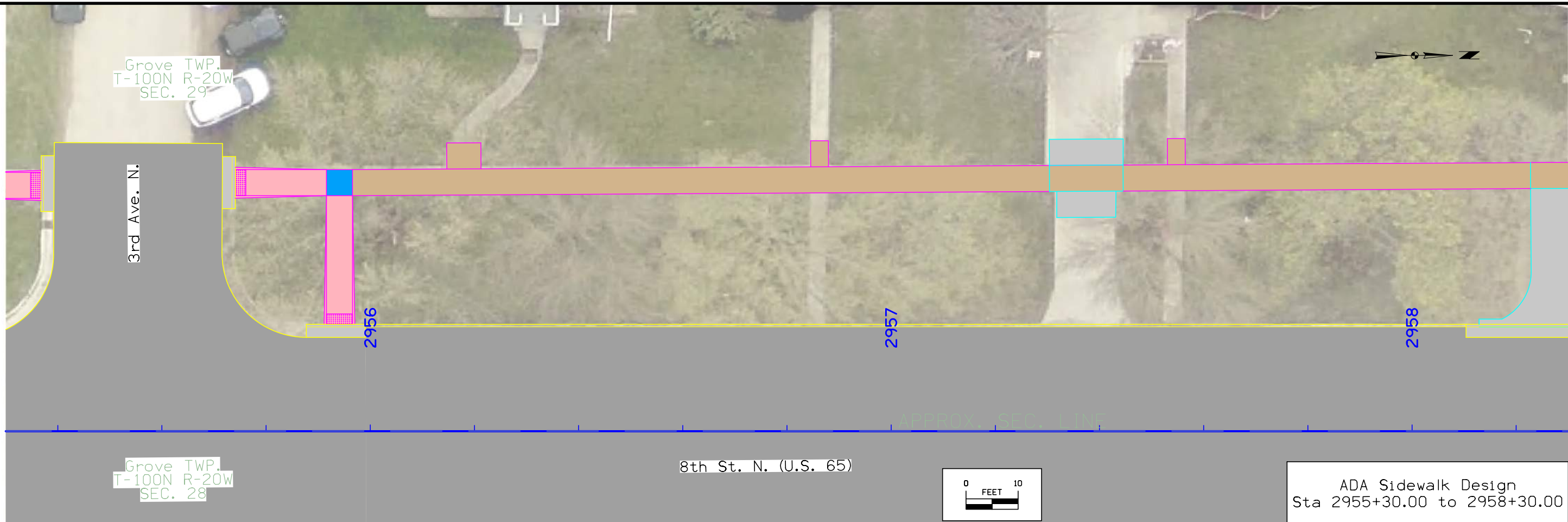


2956

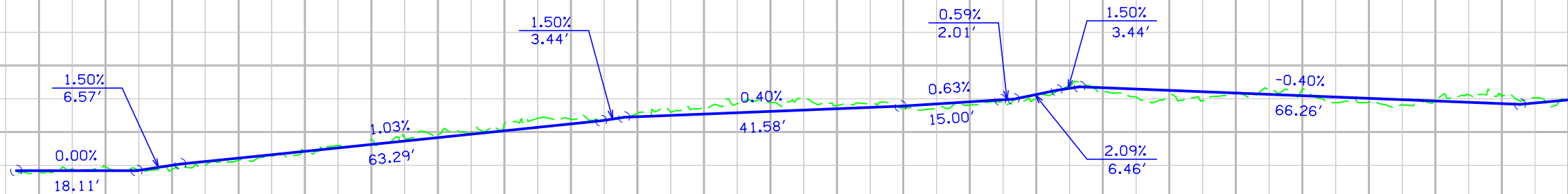


ADA Sidewalk Design
8th St. North & 3rd Ave. North

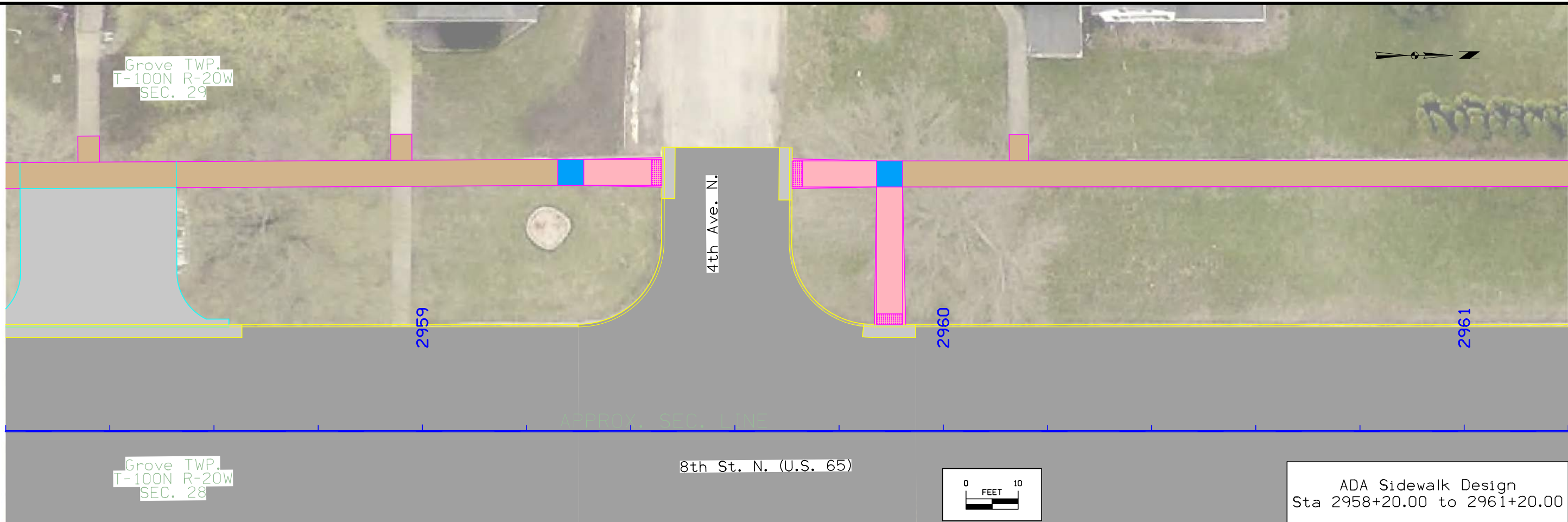
WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN



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ADA Sidewalk Design
Profile - Left

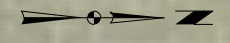


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ADA Sidewalk Design
Profile - Left

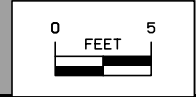
Grove TWP.
T-100N R-20W
SEC. 29



4th Ave. N.

2959

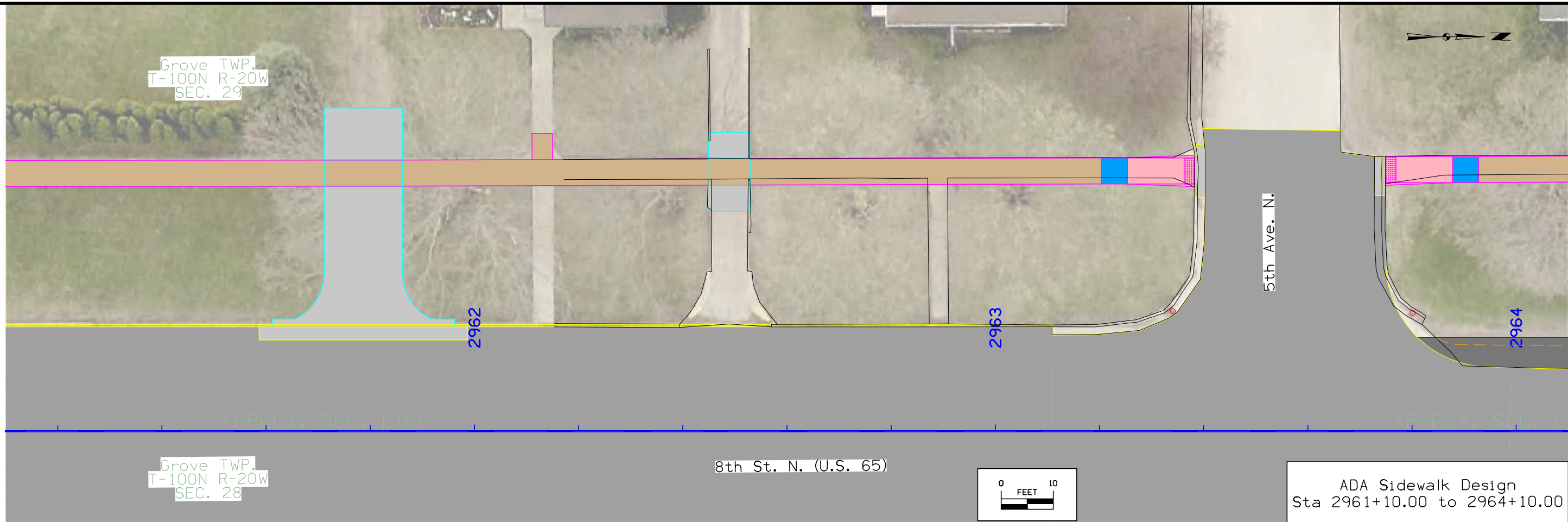
8th St. N. (U.S. 65)



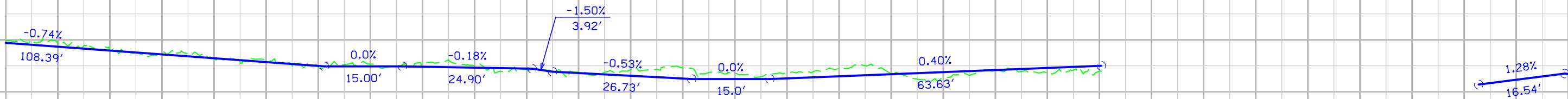
2960

ADA Sidewalk Design
8th St. North & 4th Ave. North

WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN

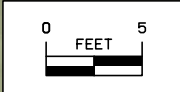
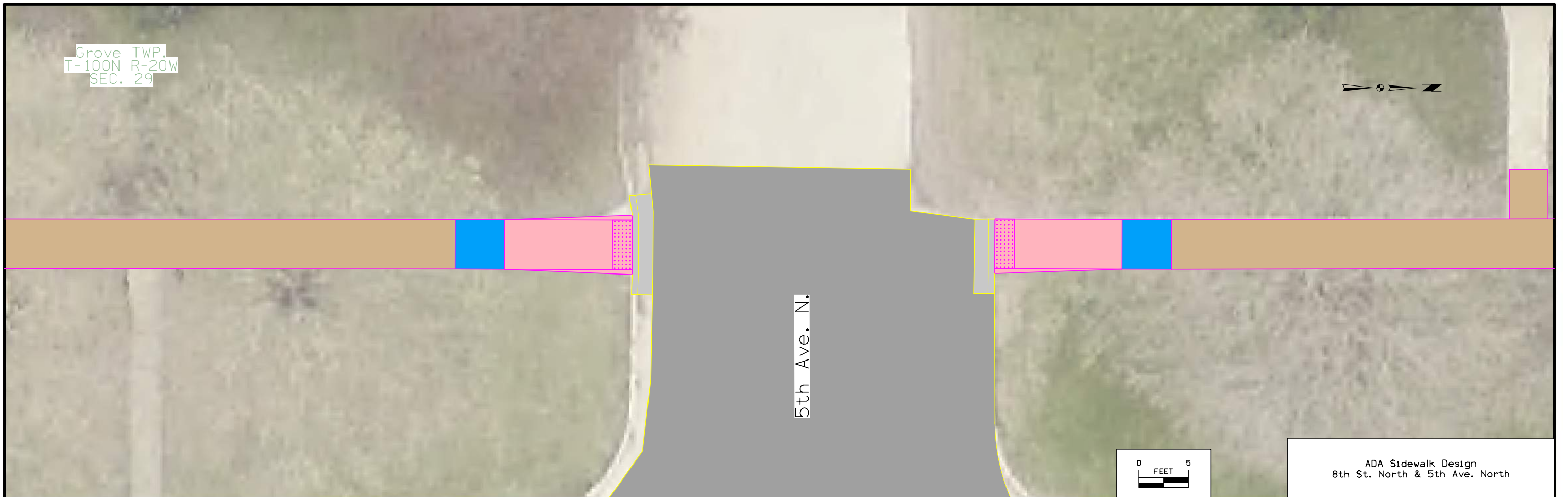
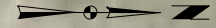


Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.



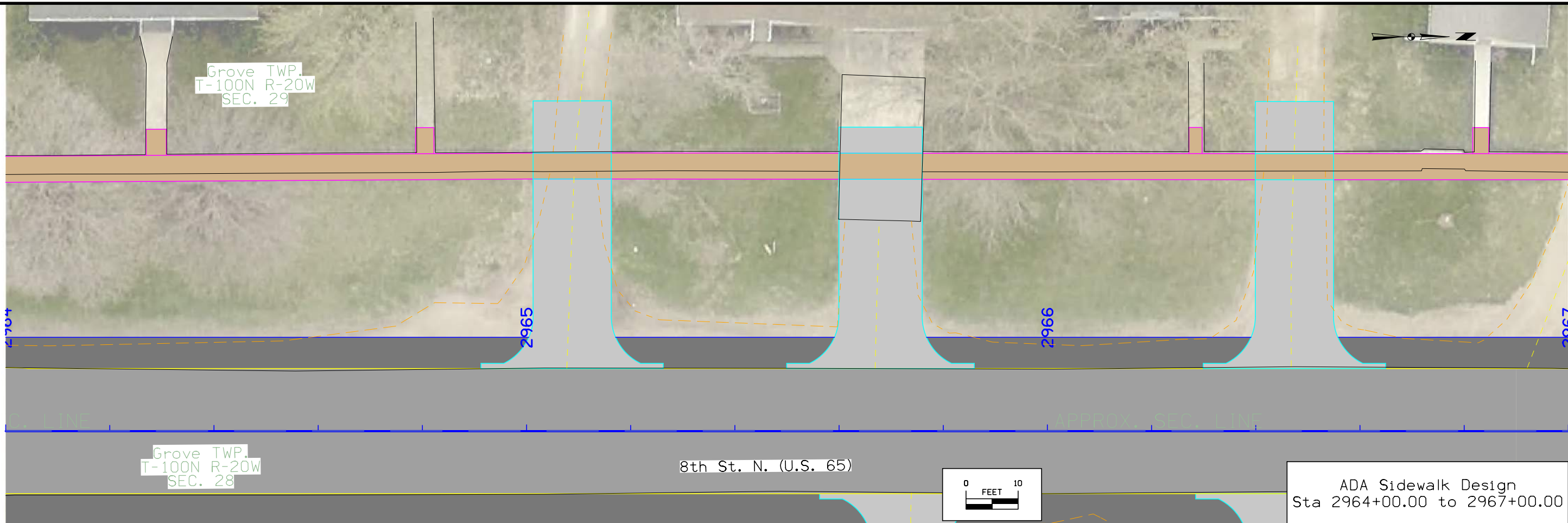
ADA Sidewalk Design
Profile - Left

Grove TWP.
T-100N R-20W
SEC. 29

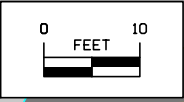


ADA Sidewalk Design
8th St. North & 5th Ave. North

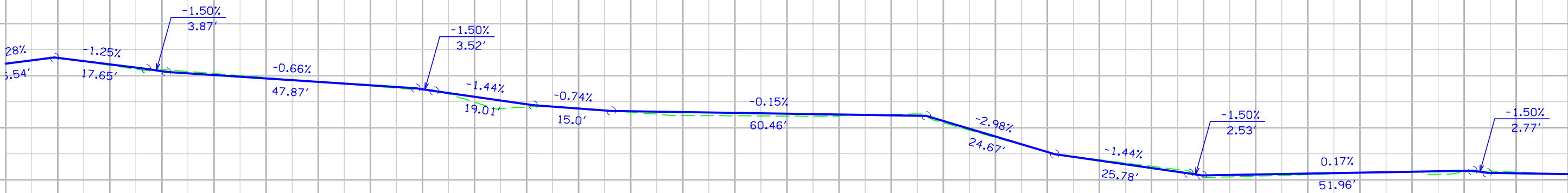
WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN



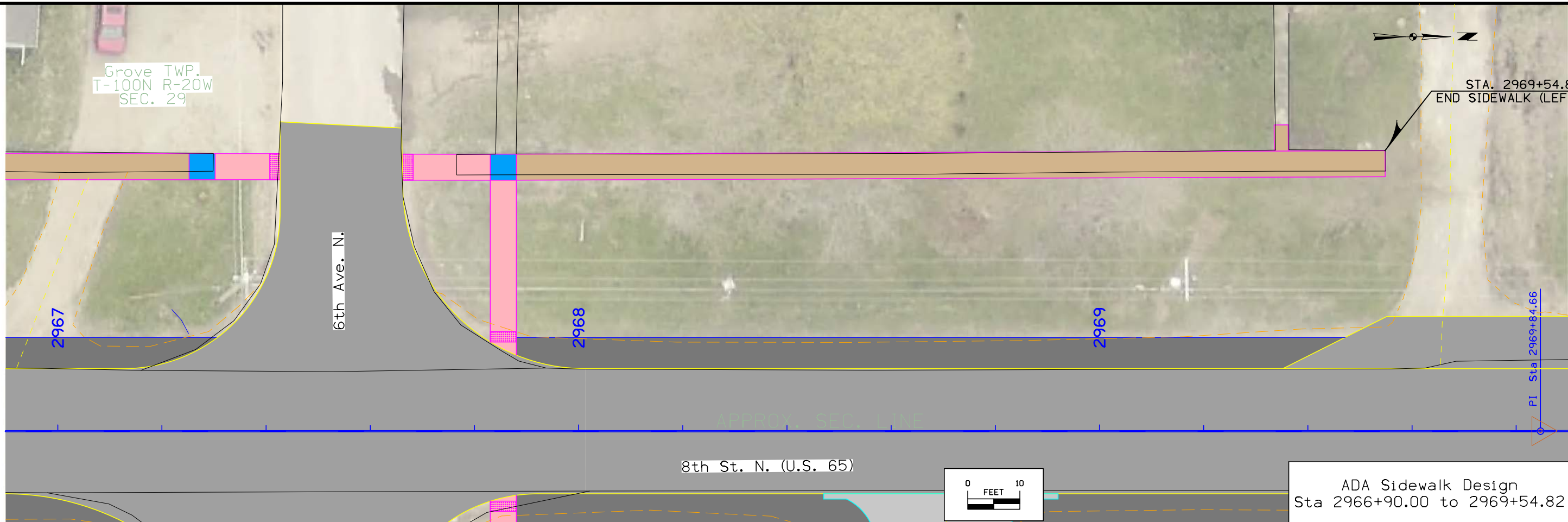
ADA Sidewalk Design
Sta 2964+00.00 to 2967+00.00



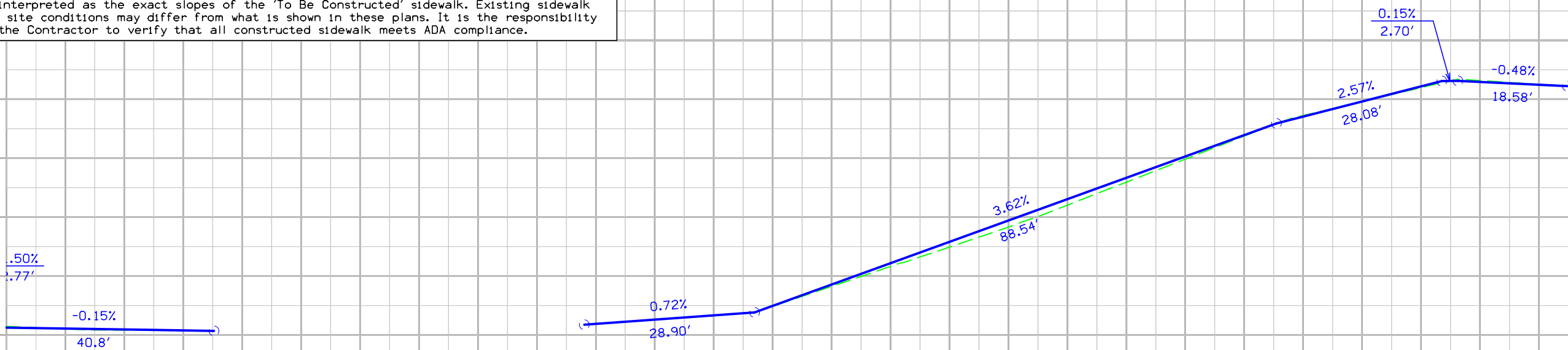
Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.



ADA Sidewalk Design
Profile - Left

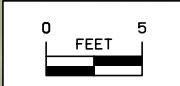
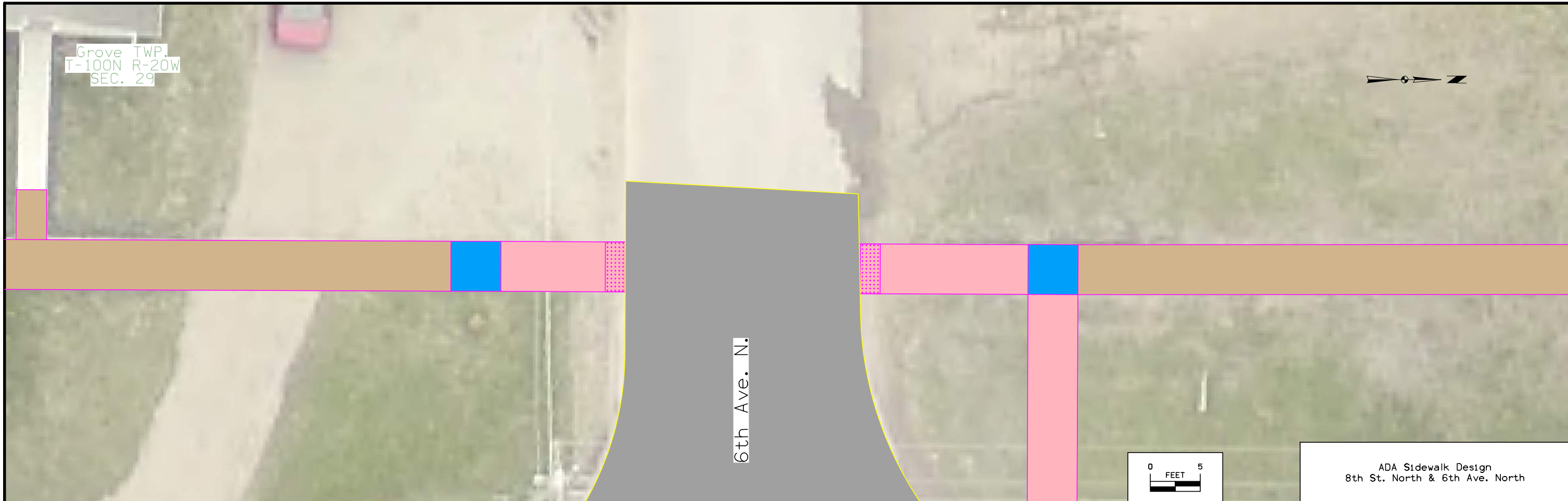
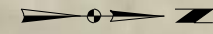


Sidewalk Profile & Profile Labels are shown for reference use only, and shall not be misinterpreted as the exact slopes of the 'To Be Constructed' sidewalk. Existing sidewalk and site conditions may differ from what is shown in these plans. It is the responsibility of the Contractor to verify that all constructed sidewalk meets ADA compliance.








ADA Sidewalk Design
Profile - Left

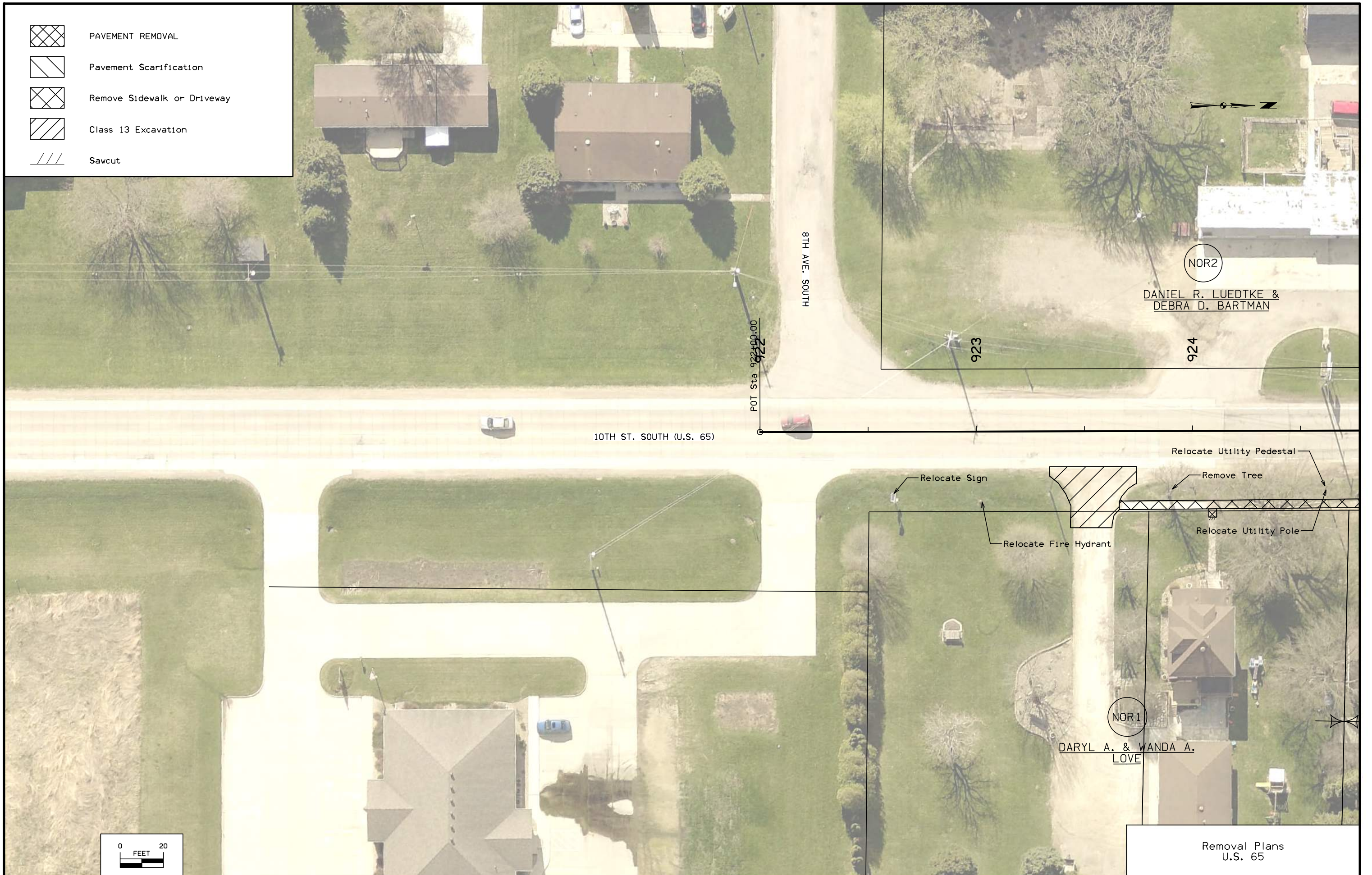
Grove TWP.
T-100N R-20W
SEC. 29








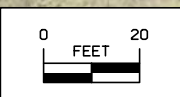
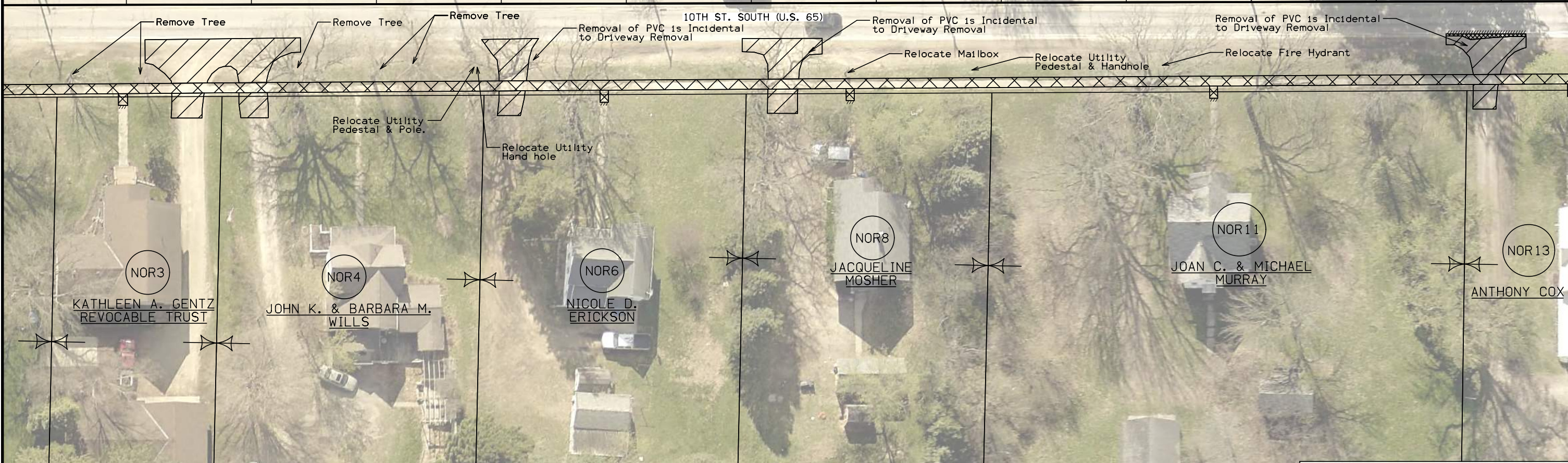
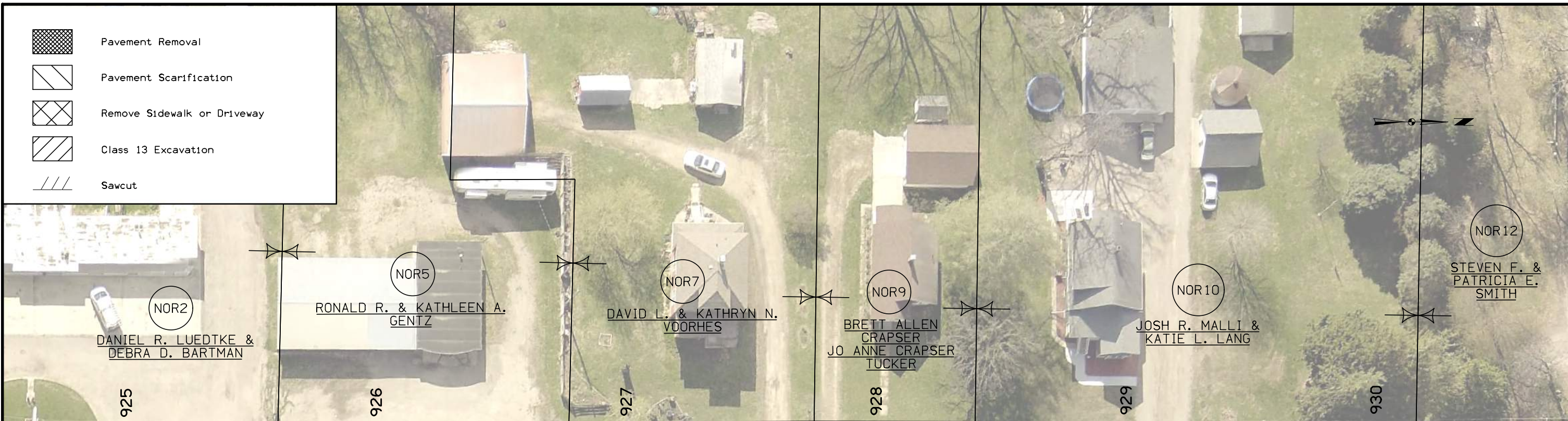
ADA Sidewalk Design
8th St. North & 6th Ave. North

WILL ADD ADA SPREADSHEETS WITH
LENGTHS AND SLOPES IN FINAL DESIGN






-  PAVEMENT REMOVAL
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut



-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut



Removal Plans
U.S. 65

-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut



12
F. &
A. E.
TH

NOR13
ANTHONY COX

NOR12
STEVEN F. & PATRICIA E.
SMITH

NOR17
JEROME R. & LINDA S.
WOOLM

931

932

933

934

935

936

Relocate Utility Pole
Relocate Utility Pedestal

Relocate Utility Pedestal & Pole

10TH ST. SOUTH (U.S. 65)

Remove Handrail

Relocate Utility Pedestal

Remove Tree

Remove Tree

Remove Tree

NOR13
ANTHONY COX

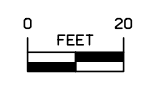
NOR14
STUART O. & KIMBERLY L.
ANDERSON

NOR15
TEREZIA VASAS
BEHNE






NOR16
JOEL R. & KRISTINE M.
GORDON

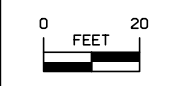
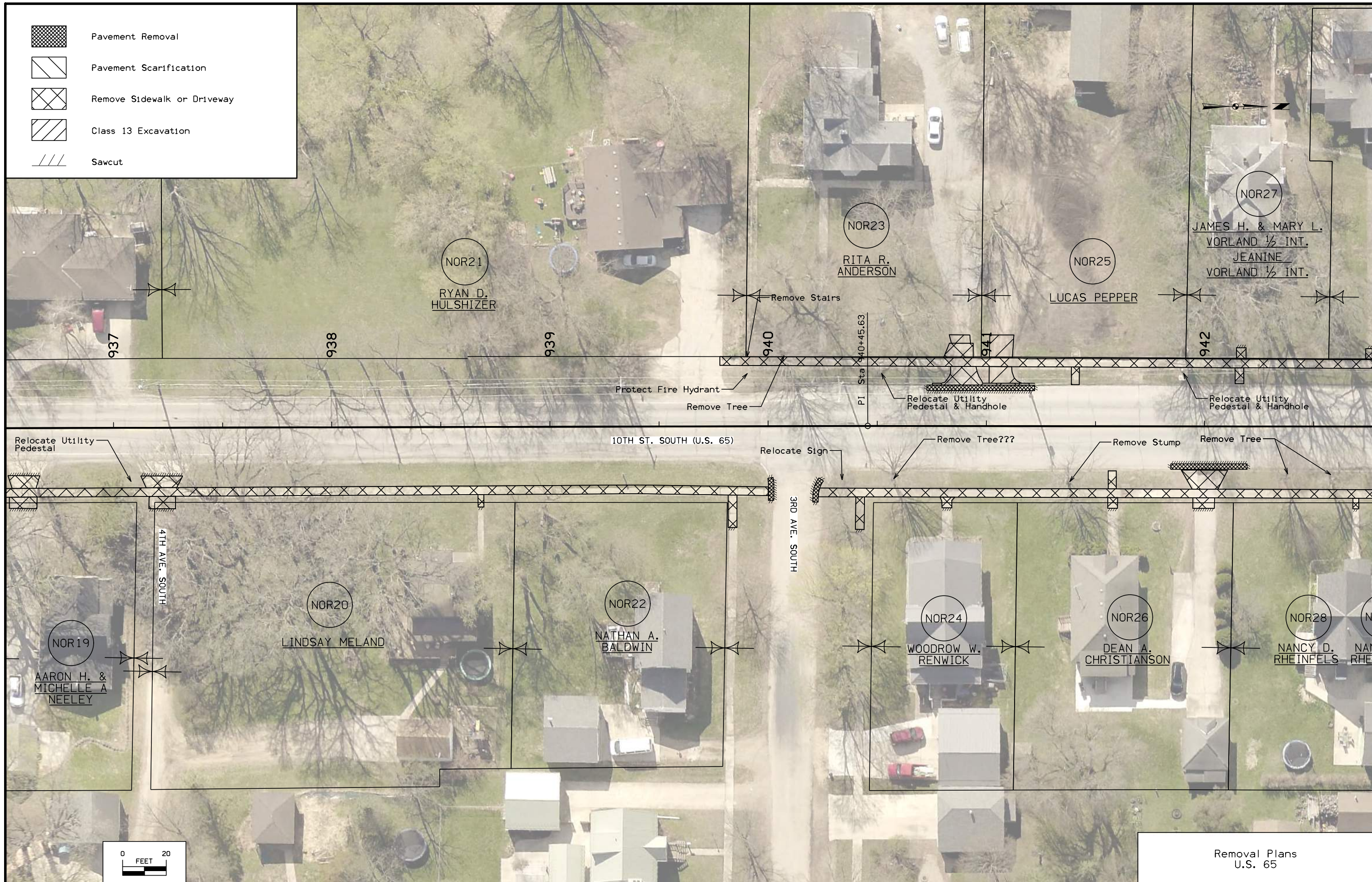
NOR18
TINA R.
COLLINS

NOR19
AARON MICH
NE








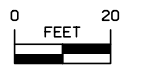
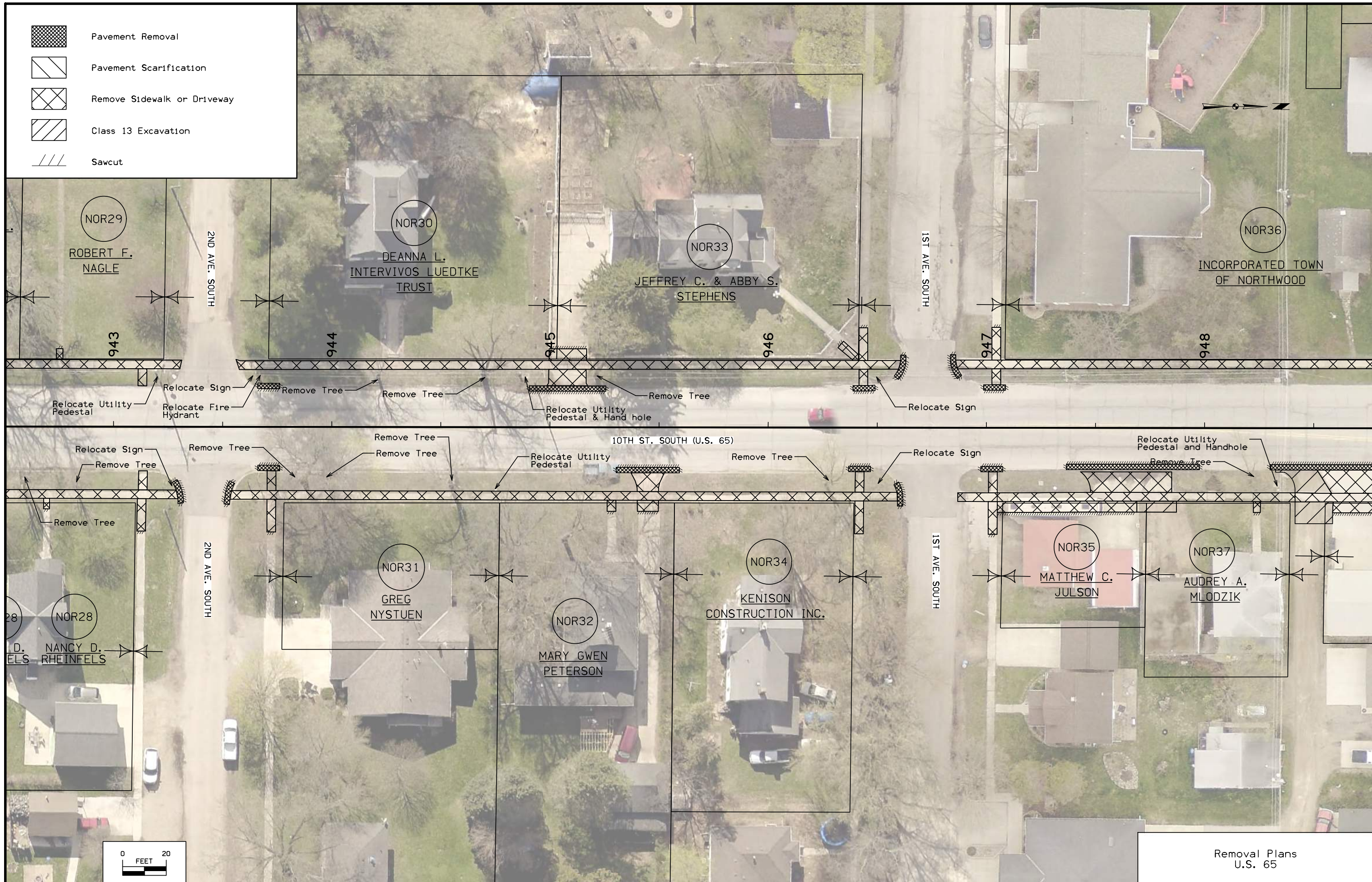
Removal Plans
U.S. 65

-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut








Removal Plans
U.S. 65

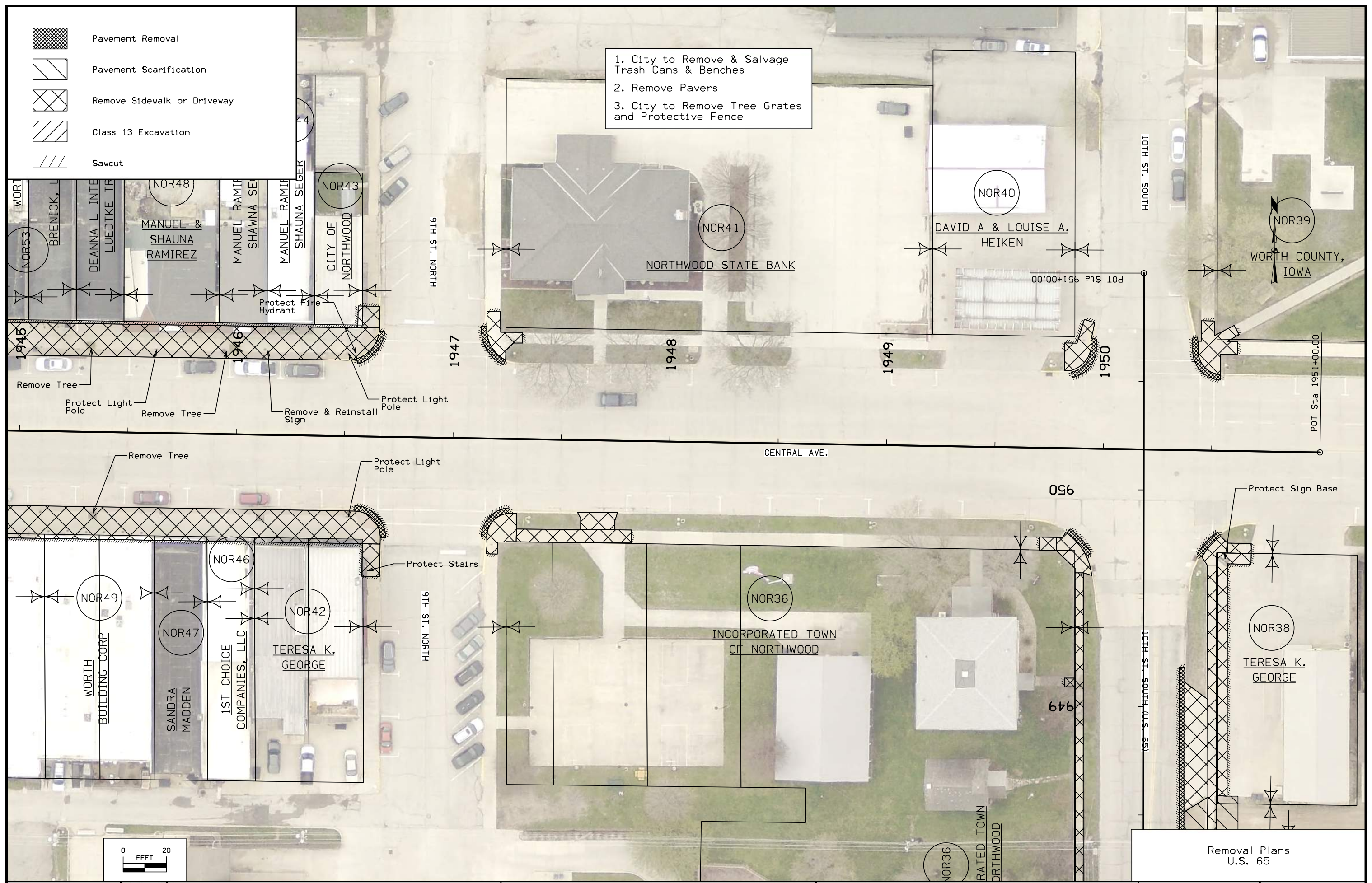
-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut








Removal Plans
U.S. 65

-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut

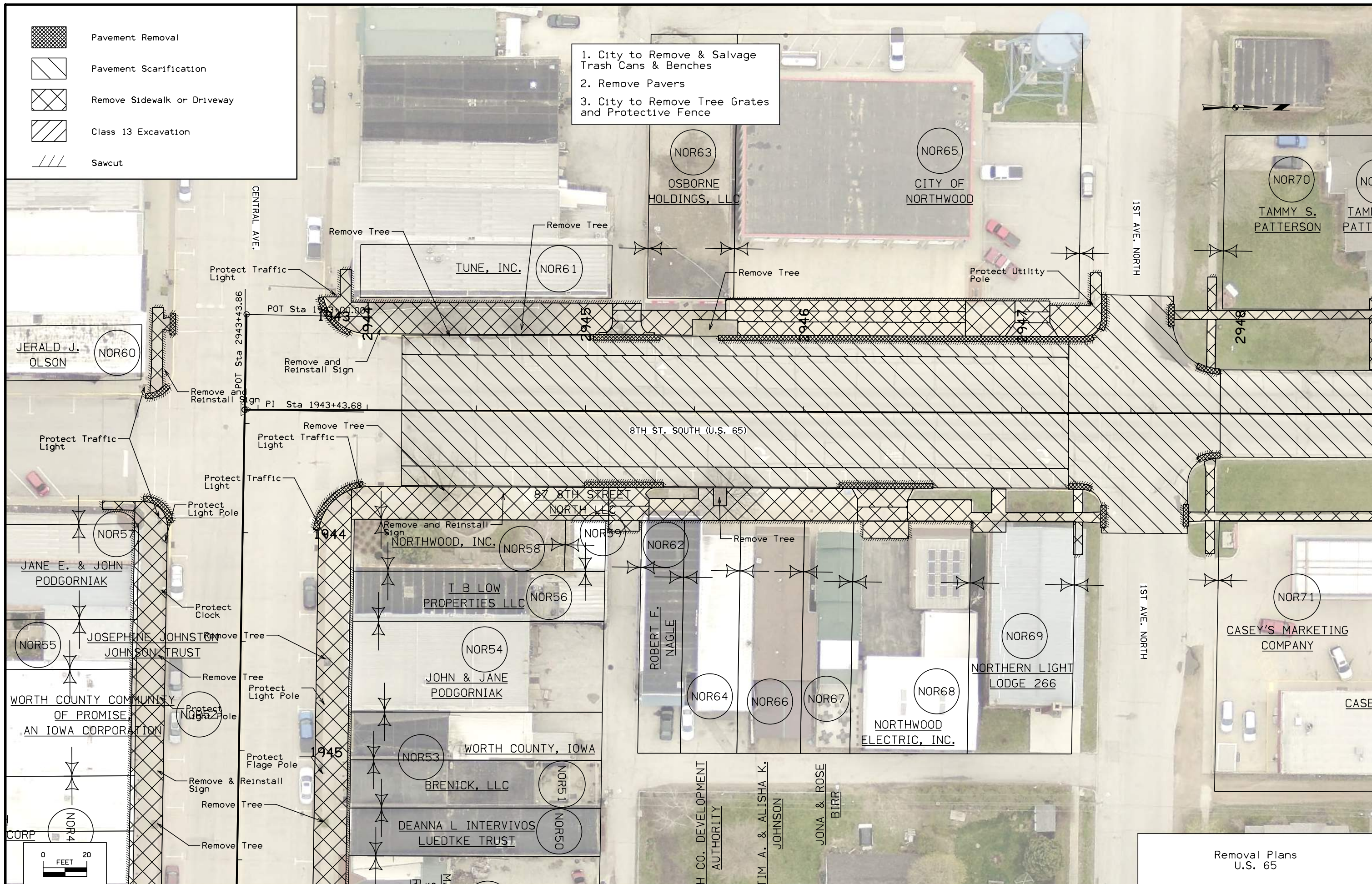
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2. Remove Pavers
3. City to Remove Tree Grates and Protective Fence








Removal Plans
U.S. 65

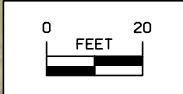
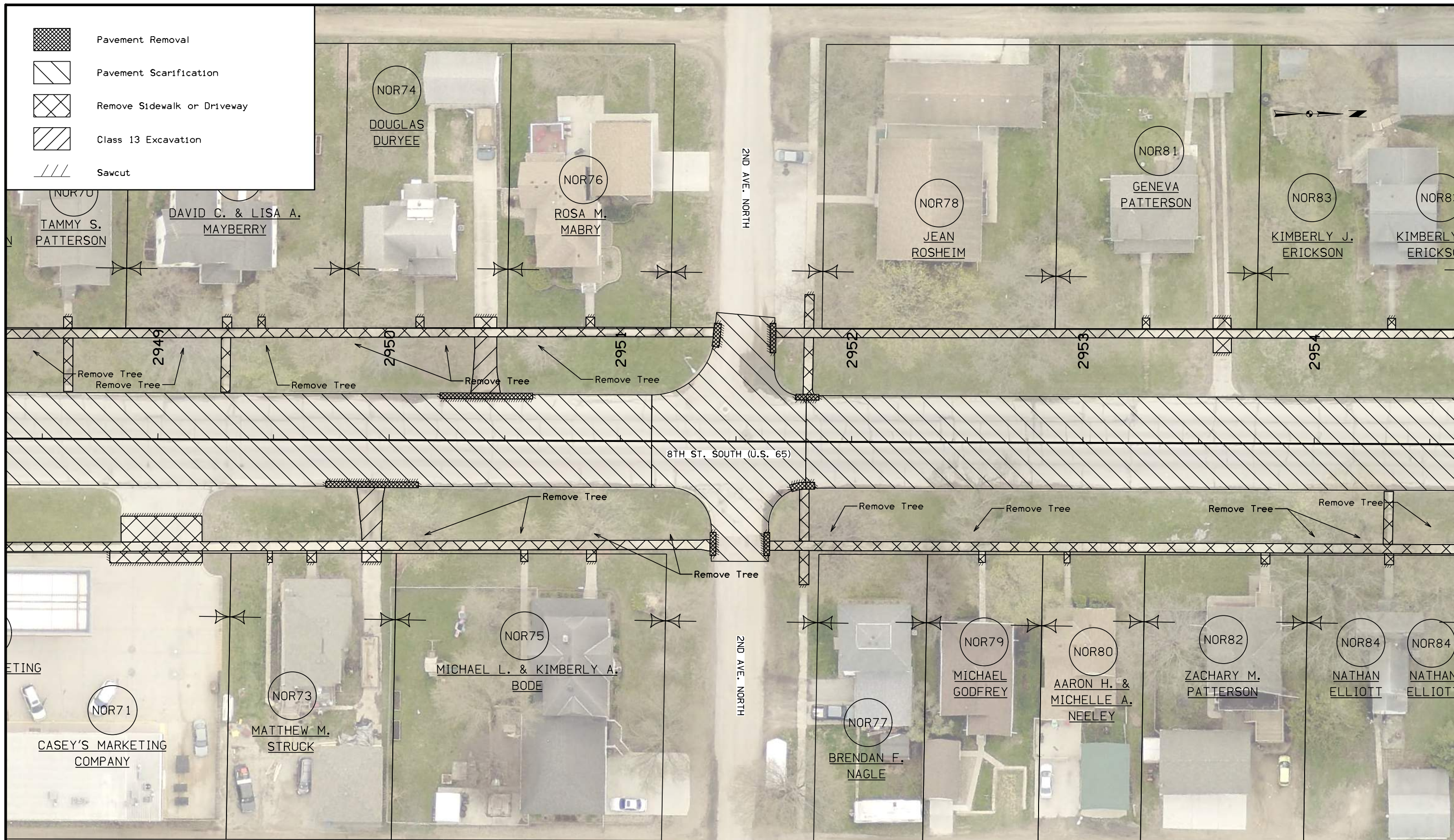
-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut

1. City to Remove & Salvage Trash Cans & Benches
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






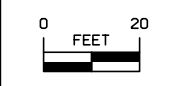
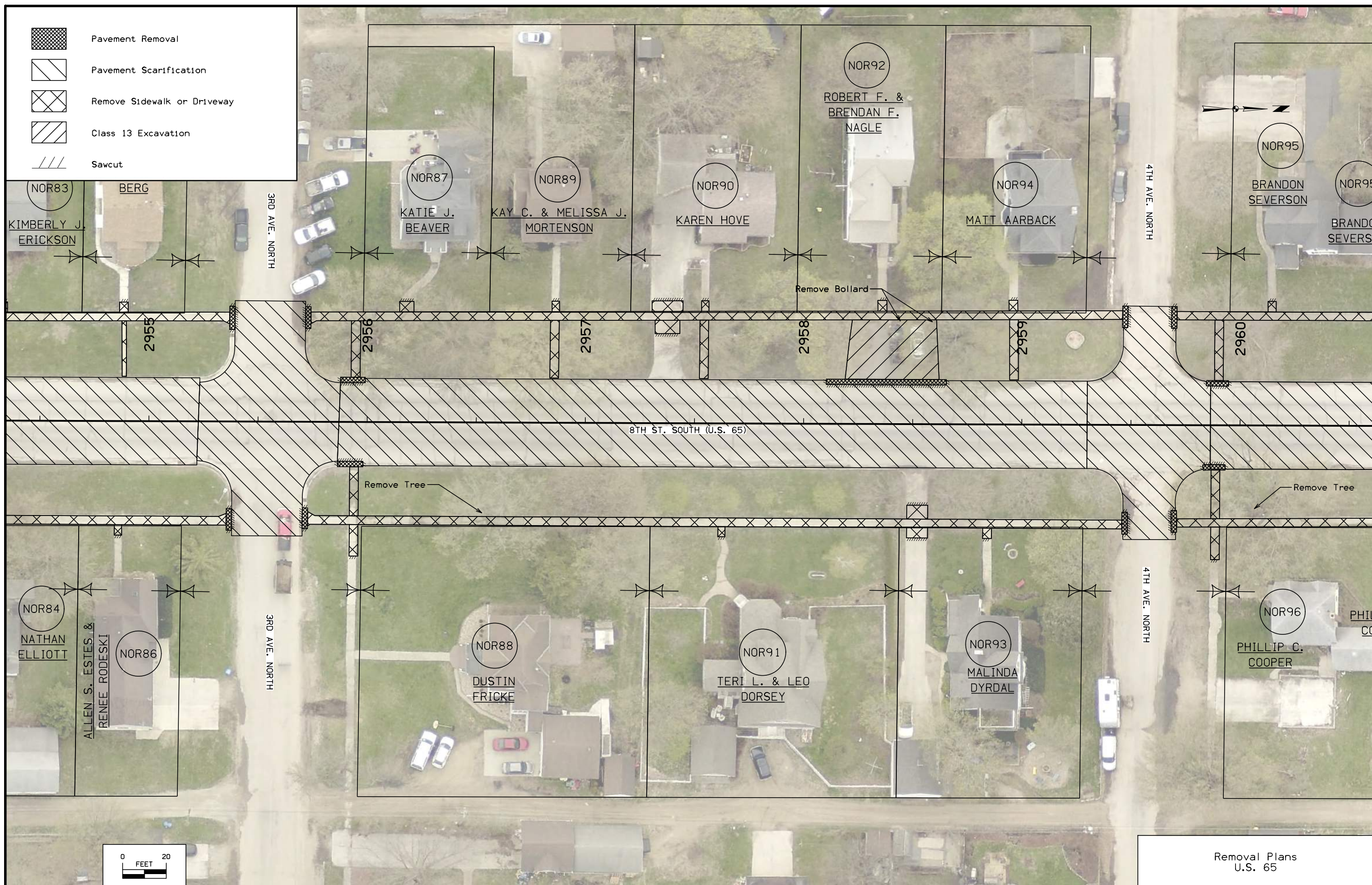
Removal Plans
U.S. 65

-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut








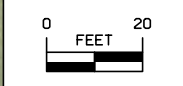
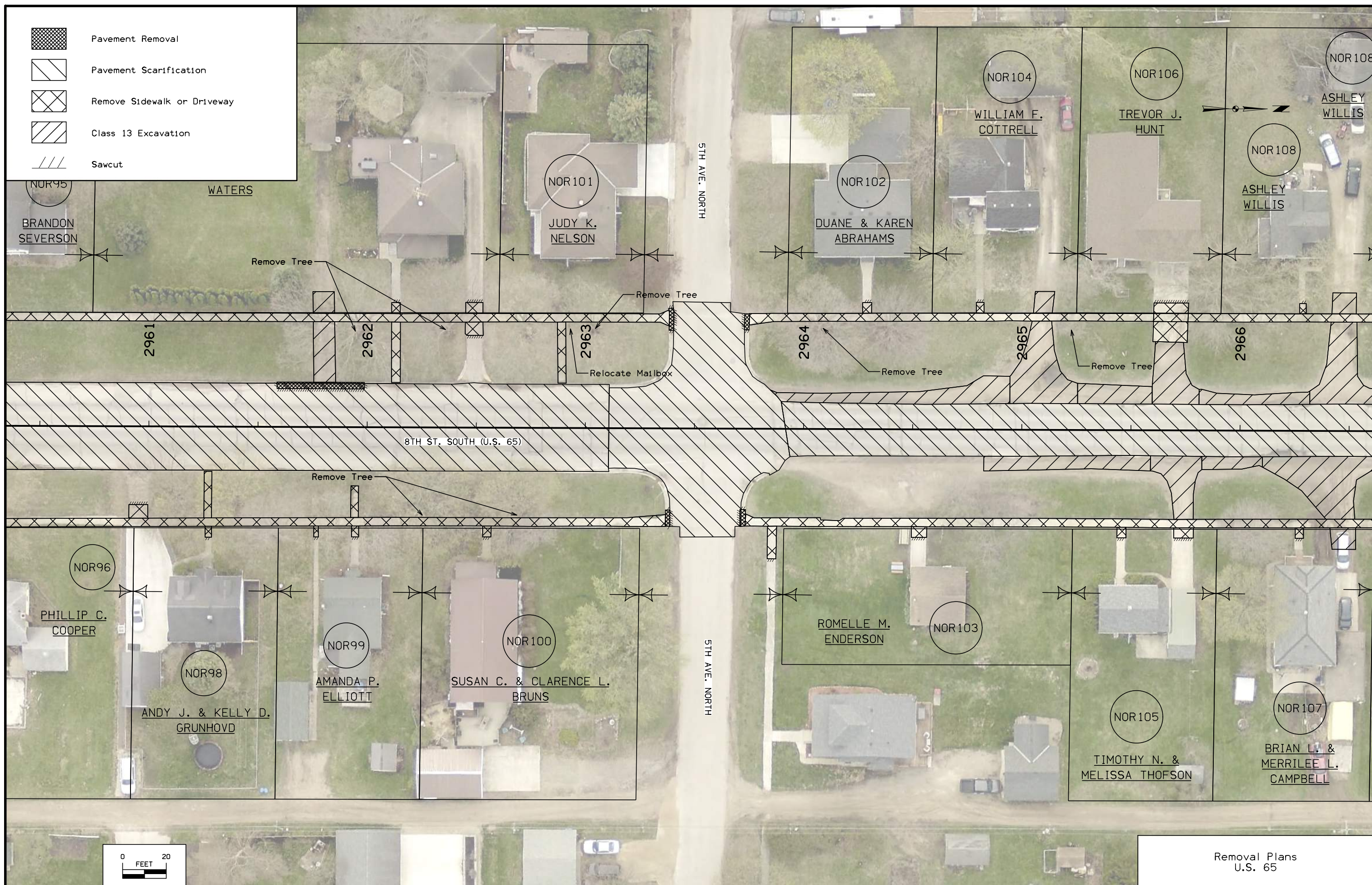
Removal Plans
U.S. 65

-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut








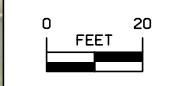
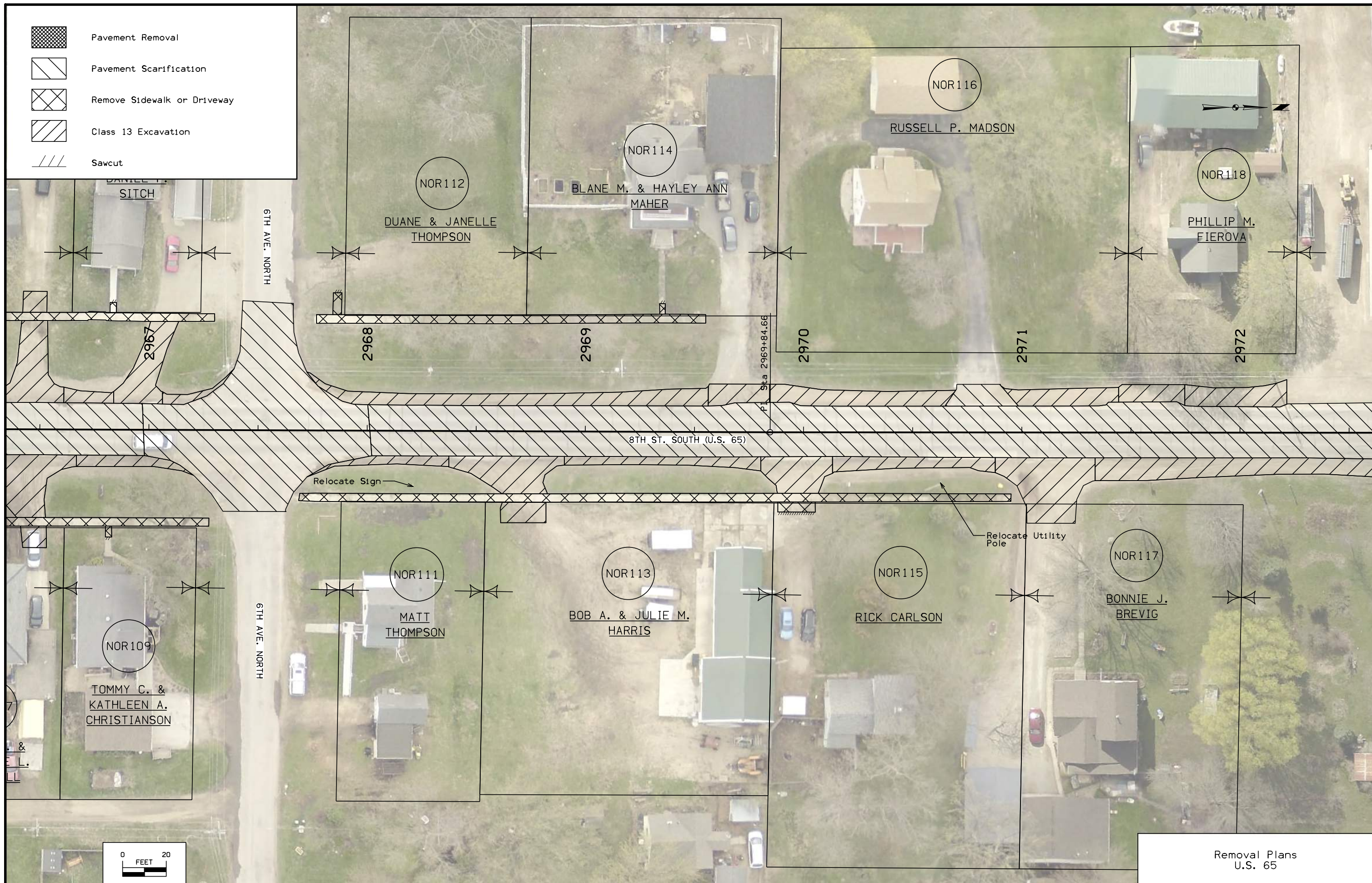
Removal Plans
U.S. 65

-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut








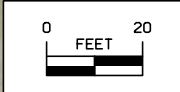
Removal Plans
U.S. 65

-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut








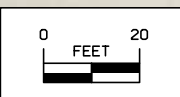
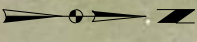
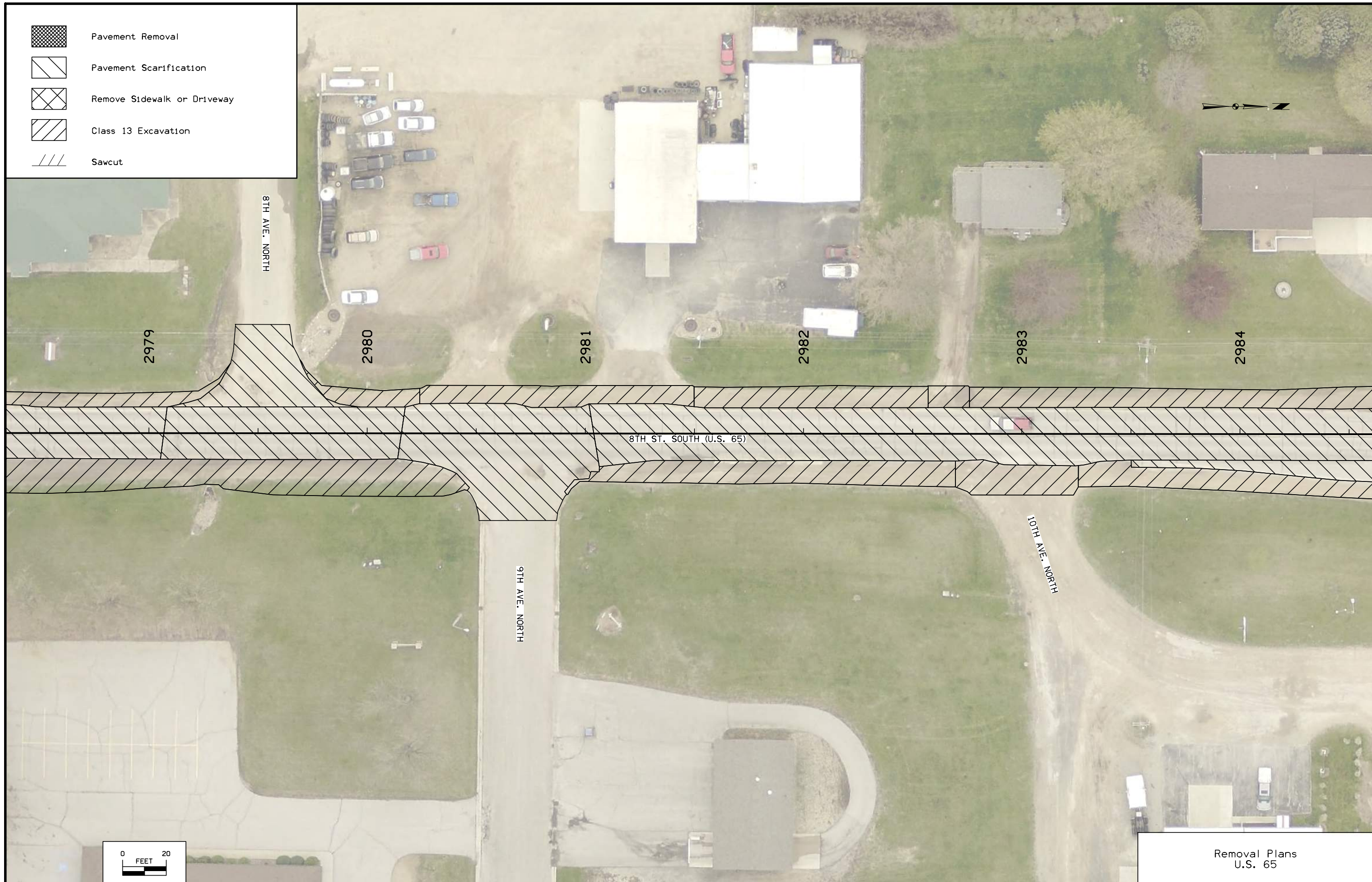
Removal Plans
U.S. 65

-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut








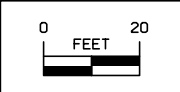
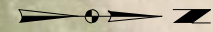
Removal Plans
U.S. 65

-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut








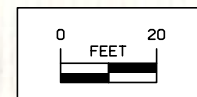
Removal Plans
U.S. 65

-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut








Removal Plans
U.S. 65

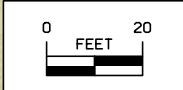
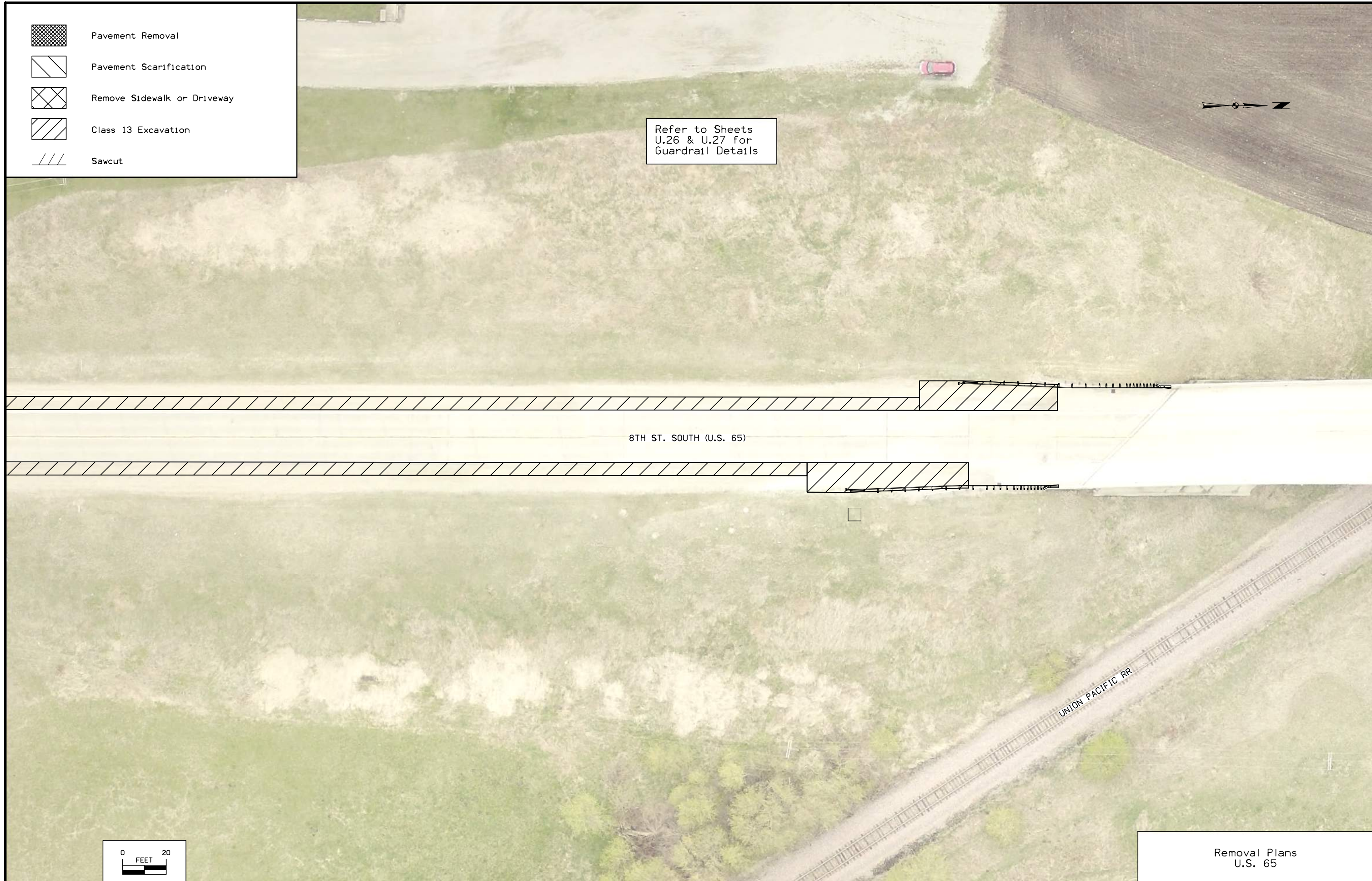
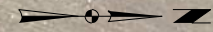
-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut








Removal Plans
U.S. 65

-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
-  Class 13 Excavation
-  Sawcut

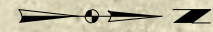
Refer to Sheets
U.26 & U.27 for
Guardrail Details



Removal Plans
U.S. 65

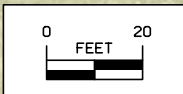
-  Pavement Removal
-  Pavement Scarification
-  Remove Sidewalk or Driveway
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-  Sawcut

Refer to Sheets
U.26 & U.27 for
Guardrail Details

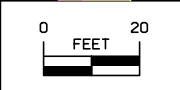
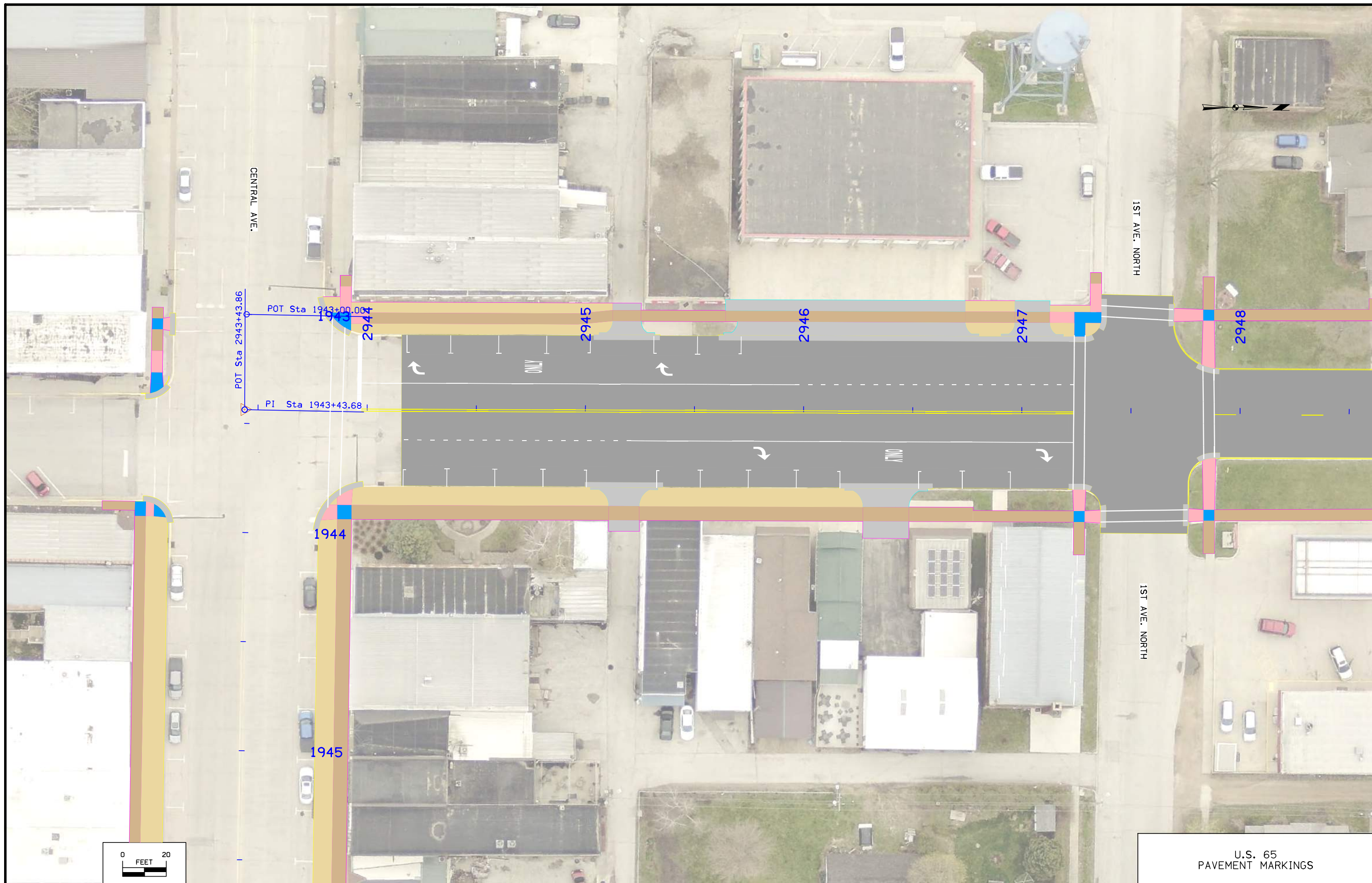


UNION PACIFIC RR

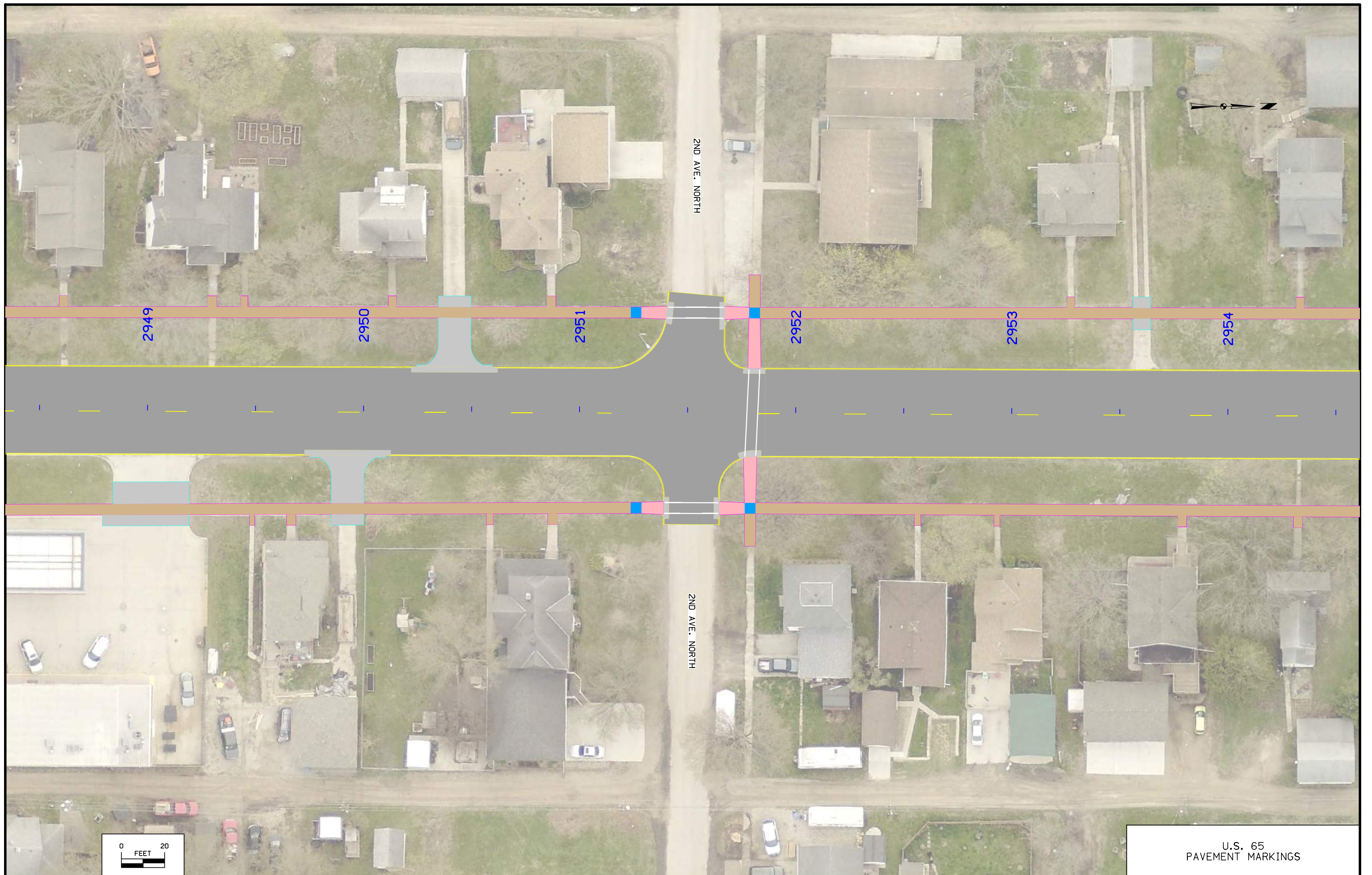
8TH ST. SOUTH (U.S. 65)

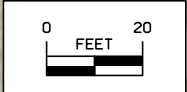
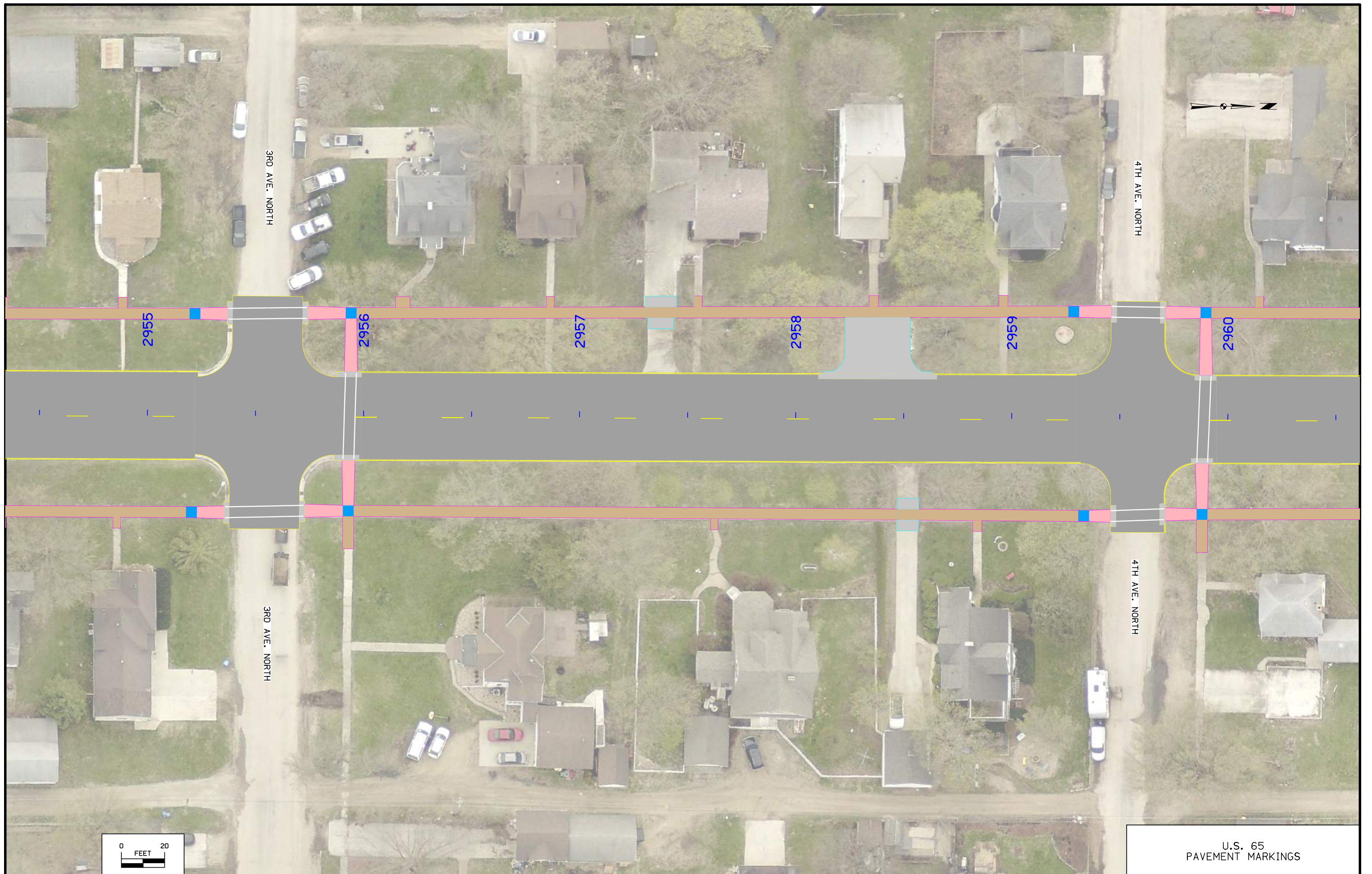


Removal Plans
U.S. 65

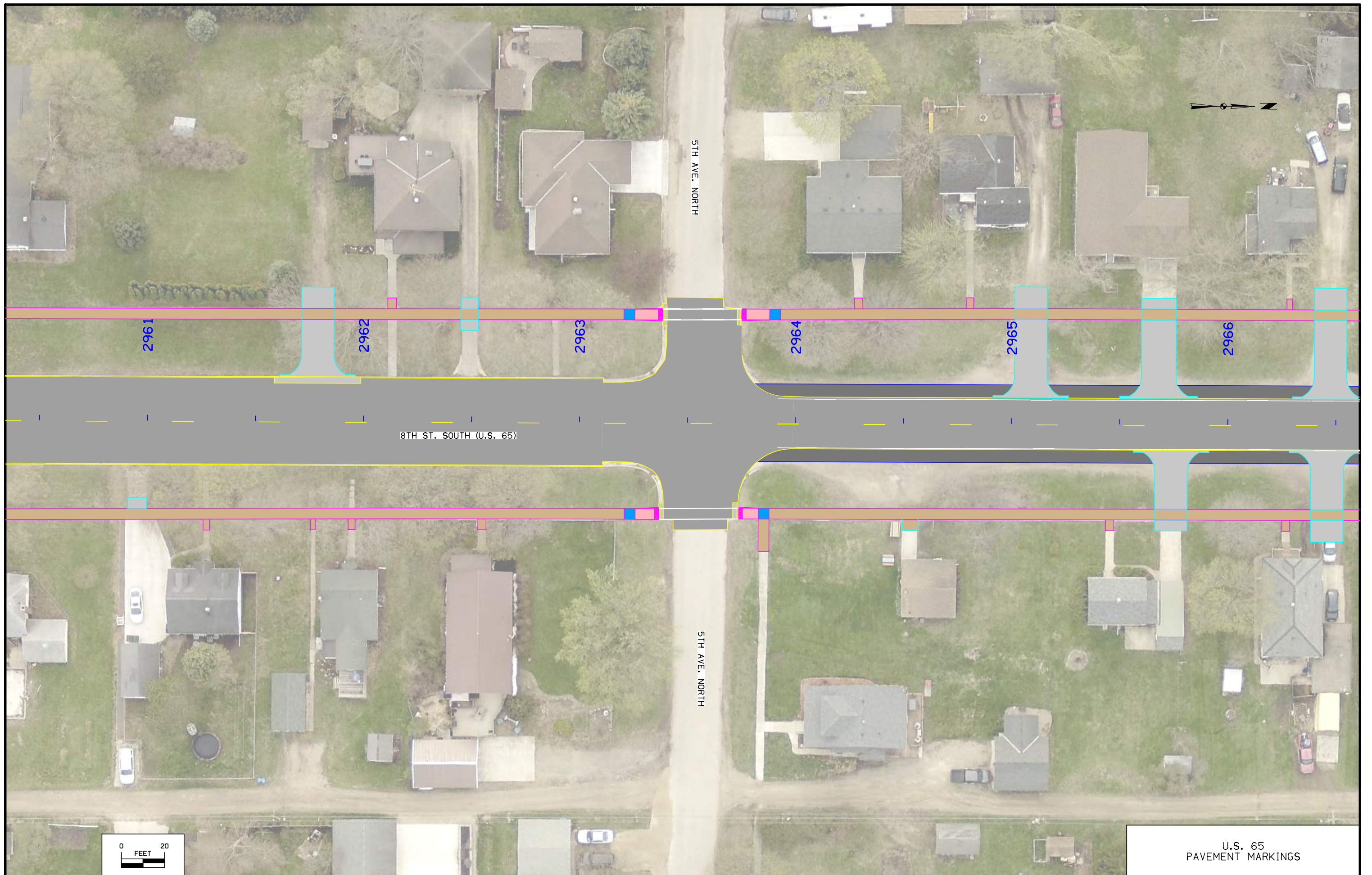


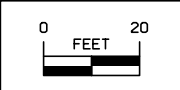
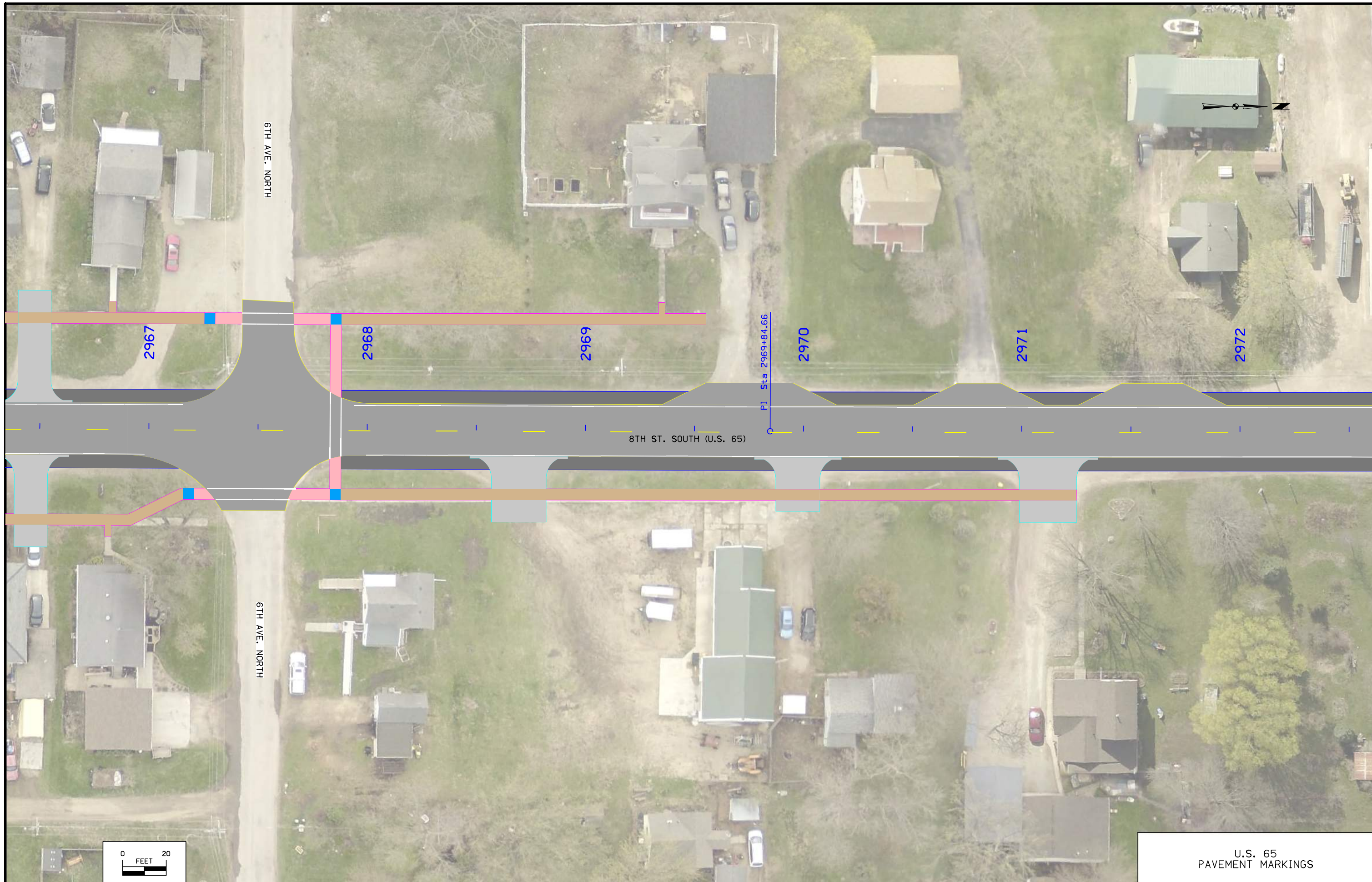
U.S. 65
PAVEMENT MARKINGS



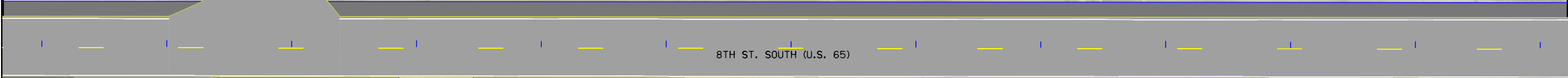


U.S. 65
PAVEMENT MARKINGS





U.S. 65
PAVEMENT MARKINGS





8TH ST. SOUTH (U.S. 65)

8TH AVE. NORTH

9TH AVE. NORTH

10TH AVE. NORTH

2979

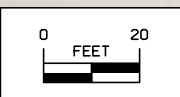
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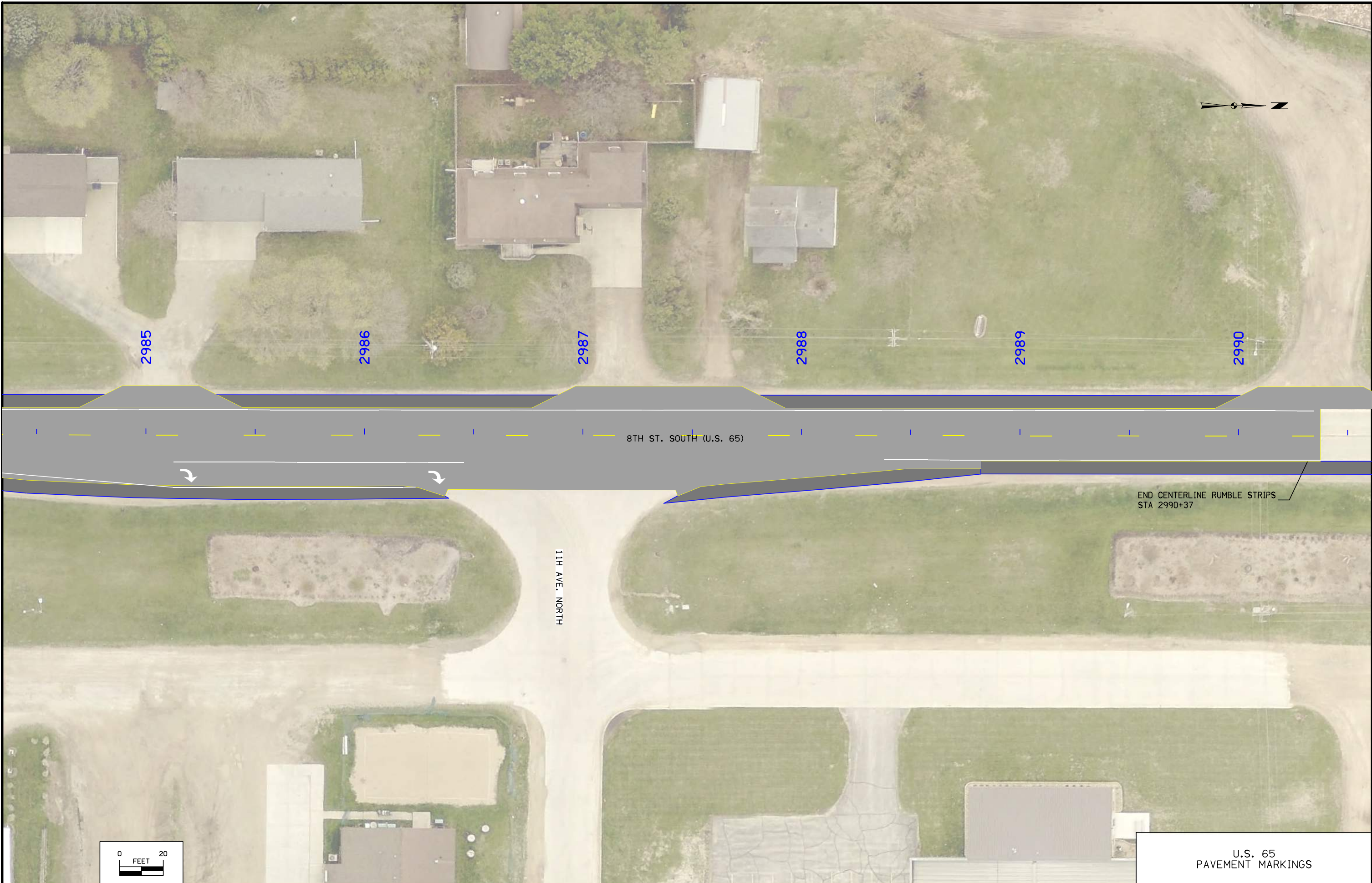
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U.S. 65
PAVEMENT MARKINGS



FILE NO.

ENGLISH

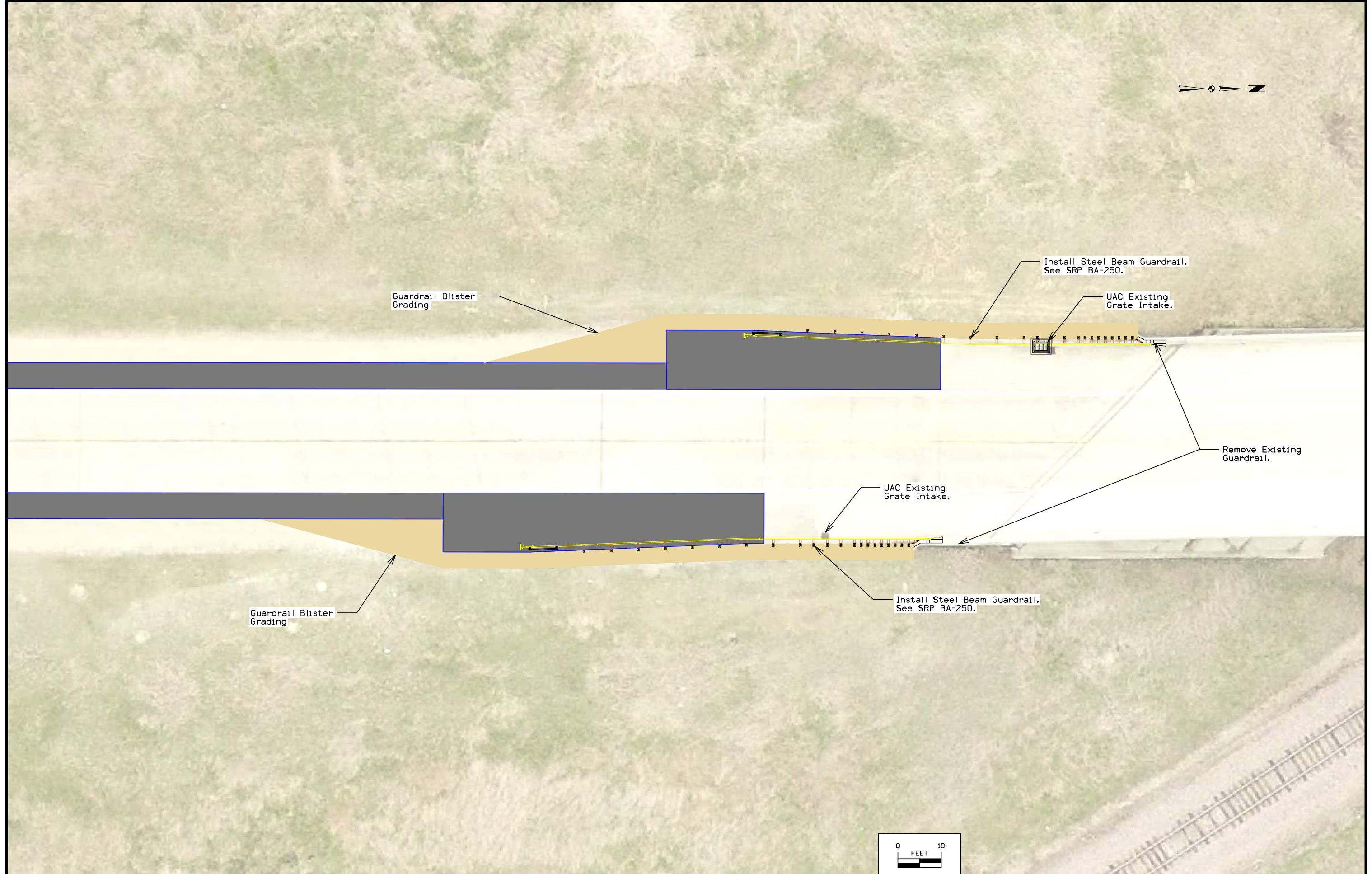
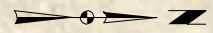
DESIGN TEAM **WHKS & CO.**

WORTH COUNTY

PROJECT NUMBER **STPN-065-9(21)--2J-98 & STPN-065-9(24)--2J-98**

SHEET NUMBER **U.25**

U.S. 65
PAVEMENT MARKINGS



Guardrail Blister Grading

Install Steel Beam Guardrail. See SRP BA-250.

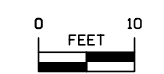
UAC Existing Grate Intake.

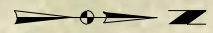
Remove Existing Guardrail.

UAC Existing Grate Intake.

Guardrail Blister Grading

Install Steel Beam Guardrail. See SRP BA-250.





UAC Existing
Grate Intake.

Install Steel Beam Guardrail.
See SRP BA-250.

Guardrail Blister
Grading

Remove Existing
Guardrail.

Install Steel Beam Guardrail.
See SRP BA-250.

Guardrail Blister
Grading

