STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B1	B65

Plotting Date: 07/07/2015

Section B: Grading Plans

INDEX OF SHEETS

B1 General Layout W/Index
B2-B4 Estimate With General Notes & Tables
B5-B7 Pavement, Curb and Gutter, and Sidewalk Quantities
B8 Horizontal Alignment Sheets
B9 Control Data Sheet
B10 Existing Topography Symbology & Legend
B11-B31 Plan Sheets
B32-B54 Curb and Gutter Ramp Details
B55 Retaining Wall Layout
B56-B65 Standard Plates

R64W

T116N

Equation (US 212)
Sta a 4+55.40 Bk =
Sta b 0+00.0 Ah

NH 0281(99)152
Station 383+29.21 End ADA Upgrades

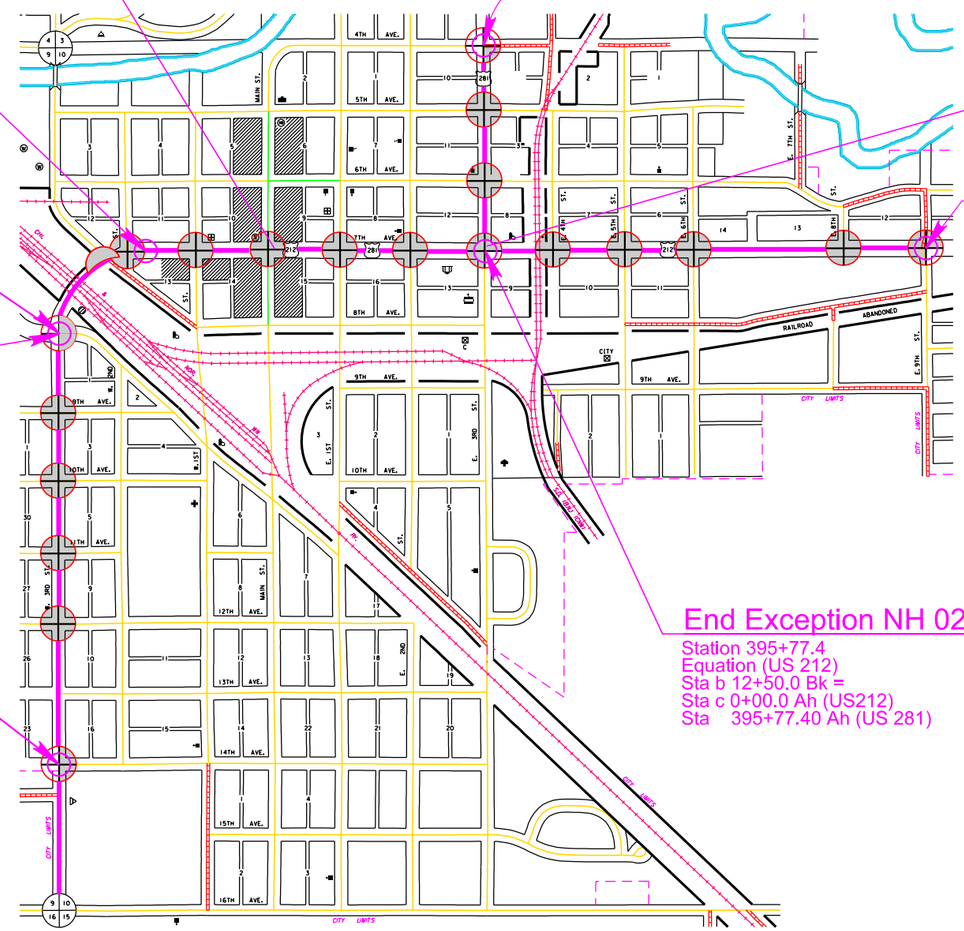
NH 0212(156)306
Station a - 2+49.73 Begin Resurfacing
Equation (US 212)
Sta 57+19.76 Bk =
Sta - 2+49.73 Ah

NH 0281(99)152
Station 395+47.60
Begin Resurfacing
Begin ADA Upgrades

NH 0212(156)306
Station c 27+21.95 End ADA Upgrades

BEGIN NH 0212(156)306
Station 48+43.45 Begin ADA Upgrades

BEGIN Exception NH 0281(99)152
Station 48+43.45



End Exception NH 0281(99)152
Station 395+77.4
Equation (US 212)
Sta b 12+50.0 Bk =
Sta c 0+00.0 Ah (US212)
Sta 395+77.40 Ah (US 281)

BEGIN NH 0281(99)152
Station 13+26.31 Begin ADA Upgrades

REDFIELD

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SECTION B ESTIMATE OF QUANTITIES

03HS

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	358	Ft
110E0310	Remove Concrete Curb	7	Ft
110E1010	Remove Asphalt Concrete Pavement	100.1	SqYd
110E1100	Remove Concrete Pavement	401.2	SqYd
110E1140	Remove Concrete Sidewalk	539.0	SqYd
230E0100	Remove and Replace Topsoil	Lump Sum	LS
380E4010	6" PCC Fillet Section	107.4	SqYd
380E4050	8" PCC Fillet Section	426.8	SqYd
650E0060	Type B66 Concrete Curb and Gutter	74	Ft
650E0080	Type B68 Concrete Curb and Gutter	82	Ft
651E0040	4" Concrete Sidewalk	5,277	SqFt
651E0060	6" Concrete Sidewalk	154	SqFt
651E7000	Type 1 Detectable Warnings	370	SqFt
671E7010	Adjust Manhole	1	Each
734E0010	Erosion Control	Lump Sum	LS

023T

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	1,364	Ft
110E0310	Remove Concrete Curb	21	Ft
110E0320	Remove Concrete Gutter	304	Ft
110E1010	Remove Asphalt Concrete Pavement	357.1	SqYd
110E1100	Remove Concrete Pavement	62.2	SqYd
110E1110	Remove Concrete Approach Pavement	43.6	SqYd
110E1140	Remove Concrete Sidewalk	762.0	SqYd
110E1300	Remove Concrete Retaining Wall	18.0	Ft
110E7700	Remove Drop Inlet Frame and Grate Assembly for Reset	1	Each
230E0100	Remove and Replace Topsoil	Lump Sum	LS
380E3020	6" PCC Driveway Pavement	7.3	SqYd
380E4010	6" PCC Fillet Section	353.9	SqYd
451E6080	Adjust Water Valve Box	1	Each
530E0300	Type C Concrete Retaining Wall	36	SqFt
650E0060	Type B66 Concrete Curb and Gutter	450	Ft
650E0080	Type B68 Concrete Curb and Gutter	353	Ft
650E3060	Type B6 Concrete Curb	10	Ft
650E4680	Type P8 Concrete Gutter	24	Ft
650E6060	6" Concrete Valley Gutter	198	Ft
651E0040	4" Concrete Sidewalk	9,661	SqFt
651E7000	Type 1 Detectable Warnings	858	SqFt
651E7010	Type 2 Detectable Warnings	32	SqFt
670E6000	Adjust Drop Inlet	3	Each
670E7000	Reset Drop Inlet Frame and Grate Assembly	1	Each
734E0010	Erosion Control	Lump Sum	LS
998E0100	Railroad Protective Insurance	Lump Sum	LS

UTILITIES

The Contractor shall be aware that the existing utilities shown in the plans were surveyed prior to the design of this project and might have been relocated or replaced by a new utility facility prior to construction of this project, might be relocated or replaced by a new utility facility during the construction of this project, or might not require adjustment and may remain in its current location. The Contractor shall contact each utility owner and confirm the status of all existing and new utility facilities. The utility contact information is provided elsewhere in the plans or bidding documents.

ADJUSTMENT OF MANHOLES

The Contractor shall adjust manholes to the extent necessary on this project. Adjusting the manholes may consist of removing the upper course of brick or removing the concrete walls, replacing the removed materials with brick or Class M6 concrete, placing adjusting rings if necessary, and resetting the manhole frame and lid. The elevation of the lid shall be set at the same elevation of the adjacent new pavement or surrounding ground. All manhole frames, lids, and rings that are cracked or broken due to carelessness of the Contractor shall be replaced with new manhole frames, lids, and rings that conform with the Specifications at the Contractor's expense. Manholes shall be adjusted to the satisfaction of the Engineer. All costs involved in adjusting the manholes shall be incidental to the contract unit price per each for "Adjust Manhole".

The Engineer may direct adjustment of manholes that were not included in these plans. Payment for adjusting manholes that were not included in the plans will be at the contract unit price per each for "Adjust Manhole".

TABLE OF ADJUST MANHOLES

Station	L/R	Type of Adjustment
47+98	R	Lower 2"

TABLE FOR ADJUSTMENT OF WATER VALVES

Station	Adjustment
B 3+45 – L	Lower 2"

ADJUSTMENT OF DROP INLETS

The Contractor shall adjust drop inlets to the extent necessary on this project. Adjusting the drop inlets may consist of removing grout, removing a portion of the concrete walls, replacing the removed materials with Class M6 concrete, placing adjusting rings if necessary, and removing & resetting the drop inlet frame and lid. The elevation of the lid shall be set at the same elevation of the adjacent new pavement or surrounding ground. All drop inlet frames, lids, and rings that are cracked or broken due to carelessness of the Contractor shall be replaced with new drop inlet frames, grates and rings that conform with the Specifications at the Contractor's expense. Drop Inlets shall be adjusted to the satisfaction of the Engineer. All costs involved in adjusting the drop inlets shall be incidental to the contract unit price per each for "Adjust Drop Inlet".

The Engineer may direct adjustment of drop inlets that were not included in these plans. Payment for adjusting drop inlets that were not included in the plans will be at the contract unit price per each for "Adjust Drop Inlet".

TABLE FOR ADJUSTMENT OF DROP INLETS

Station	Adjustment
a -0+67 – 32' L	Raise 2"
b 4+05 – 33.8' L	Raise 2"
b 4+14 – 32.6' R	Raise 2"

TABLE FOR REMOVE AND RESET DROP INLET FRAME AND GRATE ASSEMBLY

Station
a 3+62.77-39.9' L

6" & 8" PCC FILLET SECTIONS

Payment for "6" PCC Fillet Section" & "8" PCC Fillet Section" shall be based on plans quantity. If additions or reductions to the area of PCC fillet sections are ordered by the Engineer, payment will be made in accordance with the contract unit price per square yard for "6" PCC Fillet Section" & "8" PCC Fillet Section".

6" WIDE VERTICAL CURB BEHIND SIDEWALK

There are locations behind and beside new sidewalk and curb ramps that call for a 6" wide vertical curb with a maximum height of 12" (See Curb Ramp Detail Sheets). The 6" wide vertical curb shall be constructed according to the specifications given in Detail D on Standard Plate 651.03 (Type 3 Curb Ramp), regardless of the type of curb ramp is installed in these quadrants.

All costs to construct the 6" wide vertical curb with a maximum height of 12" shall be incidental to the contract unit price per square foot for "4" Concrete Sidewalk."

CURB AND GUTTER REPLACEMENT

At the following locations not shown on the curb ramp details the curb and gutter is being replaced. Station b 0+30 to b 0+40-R and Station b 2+20 to b 2+30-L. The Contractor shall verify these locations with the Engineer. The quantities for the removal and replacement of the curb and gutter are included in the Table of Pavement, Curb and Gutter, and Sidewalk Quantities.

CONCRETE SIDEWALK ADJACENT TO BUILDINGS

When placing sidewalk adjacent to buildings, the elevation of the new sidewalk may be either higher or lower than the existing sidewalk. This may require that modifications be made to building exteriors, such as removal of siding, installation of flashing, etc. Building modifications shall be approved by the Engineer. All costs associated with modifying buildings for sidewalk placement shall be incidental to the contract unit price per square foot for the corresponding concrete sidewalk bid item.

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6" CONCRETE VALLEY GUTTER

Payment for "6" Concrete Valley Gutter" shall be based on plans quantity. If additions or reductions to the area of concrete valley gutter are ordered by the Engineer, payment will be made in accordance with contract unit price per foot for "6" Concrete Valley Gutter".

DETECTABLE WARNINGS

Detectable warnings shall be in compliance with the Americans with Disability Act regulations.

The detectable warnings shall be installed according to the manufacturer's installation instructions.

A concrete thickness equal to the adjacent concrete sidewalk thickness and 2 inches of granular cushion material shall be placed below the Type 1 Detectable Warnings. When concrete is placed below the detectable warnings then the concrete thickness shall be transitioned at the rate of 1" per foot to match the adjacent concrete sidewalk thickness.

The detectable warnings shall be a brick red color for application in concrete curb ramps. Cast iron plates may be a natural patina (weathered steel).

When Type 1 Detectable Warnings are specified, the Contractor shall furnish and install only one of the products listed in the Type 1 Detectable Warnings table.

Type 1 Detectable Warnings

Product	Manufacturer
Detectable Warning Plate Cast Iron Plate	Neenah Foundry Company Neenah, WI 800-558-5075 http://www.neenahfoundry.com/
Detectable Warning Plate Cast Iron Plate	Deeter Foundry Lincoln, NE 800-234-7466 http://www.deeter.com/
Detectable Warning Plate Cast Iron Plate(No Coating)	East Jordan Iron Works, Inc. 301 Spring Street East Jordan, MI 49727 800-626-4653 http://www.ejiw.com
CAST-DWD Cast Iron Plate	Key 3 Casting (Northern Foundry) 555 West 25th Street Hibbing, MN 55746 218-263-8871 http://key3casting.com

When Type 2 Detectable Warnings are specified, the Contractor shall furnish and install only one of the products listed in the Type 2 Detectable Warnings table.

Type 2 Detectable Warnings

Product	Manufacturer
Armor Tile Surface Applied System	Engineered Plastics Inc. 300 International Drive, Suite 100 Williamsville, NY 14221 800-682-2525 http://www.armor-tile.com/
Detectable Warning Tile Surface Mount System	ADA Solutions, Inc. North Billerica, MA 01862 888-407-4492 http://adatile.reachlocal.com/
DWT (Detectable Warning Tile) Surface Mount System	3D Traffic Works 4320 N. Varney St. Burbank, CA 91502 877-843-9757 http://www.trafficwks.com/
RediMat Surface Applied System	Detectable Warning Systems, Inc 8081 Phillips Hwy, Suite 22 Jacksonville, FL 32256 866-999-7452 http://www.detectable-warning.com/
Access Tile Surface Applied System	Access Products Inc. 241 Main Street, Suite 100 Buffalo, NY 14203 888-679-4022 http://www.accesstile.com/surface-applied-the-most-innovative-retrofit-system
Alerttile Surface Applied System	Cape Fear Systems, III, LLC 215 South Water Street, Suite 103 Wilmington, NC 28401 877-232-6287 http://www.alerttile.com/
Ultra-ADA Pads Surface Mount System	Ultra Tech International, Inc. 11542 Davis Creek Court Jacksonville, FL 32256 800-764-9563 http://spillcontainment.com/products/facility_protection/warningpads.htm

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REMOVE AND REPLACE TOPSOIL

Topsoil shall be pulled away from the pavement to construct curb ramps. Limits of this work will be directed by the Engineer. Following completion of construction, topsoil shall be spread evenly over the disturbed areas.

The estimated amount of topsoil to be removed and replaced is 86 cubic yards along project NH 0212(156)306.

The estimated amount of topsoil to be removed and replaced is 74 cubic yards along project NH 0281(99)152.

All costs associated with removing and replacing the topsoil along areas to be resurfaced shall be incidental to the contract lump sum price for "Remove and Replace Topsoil".

EROSION CONTROL

All turf disturbed in urban sections shall be seeded, fertilized, and covered with soil stabilizer after topsoil is replaced. All costs associated with Mycorrhizal Inoculum, Permanent Seeding, Fertilizing, and Soil Stabilizer shall be incidental to the contract lump sum price for "Erosion Control".

The estimated disturbed area to require erosion control is 7,000 square feet along project NH 0212(156)306.

The estimated disturbed area to require erosion control is 6,000 square feet along project NH 0281(99)152.

Fertilizing

The Contractor shall apply an all-natural slow release fertilizer prior to seeding or placing sod. The all-natural fertilizer shall have a minimum guaranteed analysis of 4-6-4 and be USDA Certified BioBased. It should provide a minimum of 4% (N) nitrogen with a minimum water insoluble nitrogen (WIN) fraction of 3.2%, a minimum of 6% (P2O5) available phosphate, a minimum of 4% (K2O) soluble potash, and a maximum carbon to nitrogen ratio (C:N ratio) of 5:1. The all-natural fertilizer shall be free of weed-seed and pathogens accomplished through thermophilic composting, and not mechanical or chemical sterilization, to assure presence of beneficial soil microbiology. The fertilizer shall have a near neutral pH, a low salt index, a low biological oxygen demand, contain organic humic and fulvic acids, and have high aerobic organism counts. The fertilizer shall also be stable, free of bad odors, and be unattractive as a food source for animals. It should also be in a granular form that is easily spread.

The all-natural slow release fertilizer shall be applied according to the manufacturer's application recommendations.

The application rate is 34 pounds per 1,000 square feet.

The all-natural slow release fertilizer shall be as shown below or an approved equal:

Product	Manufacturer
Sustane	Sustane Corporate Headquarters Cannon Falls, Minnesota Phone: 1-800-352-9245 http://www.sustane.com/

Mycorrhizal Inoculum

Mycorrhizal inoculum shall consist of mycorrhizal fungi spores and mycorrhizal fungi-infected root fragments in a solid carrier. The carrier may include organic materials, calcinated clay, or other materials consistent with application and good plant growth. The supplier shall provide certification of the fungal species claimed and the live propagule count. The inoculum shall include the following fungal species:

Glomus intraradices	25%
Glomus aggregatu	25%
Glomus mosseae	25%
Glomus etunicatum	25%

All seed shall be inoculated by the seed supplier with a minimum of 20,000 live propagules of mycorrhizal fungi per 1,000 square feet.

The mycorrhizal inoculum shall be as shown below or an approved equal:

Product	Manufacturer
MycoApply	Mycorrhizal Applications, Inc. Grants Pass, OR Phone: 1-866-476-7800 http://www.mycorrhizae.com/

Permanent Seeding

The areas to be seeded consist of all newly graded areas within the project such as areas around newly constructed curb ramps.

Type D Permanent Seed Mixture shall consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/1000 SqFt)
Kentucky Bluegrass	Avalanche, Appalachian, Wildhorse, Blue Bonnet	1.4
Perennial Ryegrass	Turf Type Varieties	1.4
Creeping Red Fescue	Epic, Boreal	1.4
Chewings Fescue	Ambrose, K2, VNS, Zodiac	1.4
Alkali Grass	Fults, Fults II, Quill, Salty	1.4
	Total:	7

Soil Stabilizer

The Contractor shall apply soil stabilizer according to the manufacturer's application instructions and at the rate specified in the list of approved soil stabilizers after permanent seeding.

Wood fiber mulch that contains a green dye shall be mixed with the soil stabilizer to be used as a tracer when the soil stabilizer is applied hydraulically. Wood fiber mulch shall be added at a rate of 300 pounds per acre to all of the approved soil stabilizers listed in the table except for the Pam-12 Plus product. The wood fiber mulch shall be a 100% wood fiber product and does not need to contain a tackifier.

The soil stabilizer shall be from the list below or an approved equal:

Product	Manufacturer
StarTak 600 Applied at a rate of 150 Lb/Acre	Chemstar Products Company Minneapolis, MN Phone: 1-800-328-5037 www.chemstar.com
Pam-12 Plus Applied at a rate of: Slope None to 4:1 — 1000 Lb/Acre 4:1 to 3:1 — 1000 to 2000 Lb/Acre 3:1 to 2:1 — 2000 to 3000 Lb/Acre	ENCAP, LLC Green Bay, WI Phone: 1-877-405-5050 http://professional.encap.net/
M-Binder Applied at a rate of 150 Lb/Acre	Ecology Controls Carpinteria, CA Phone: 1-805-684-0436 www.ssseeds.com
FiberRX Applied at a rate of: Slope None to 4:1 — 50 Lb/Acre 3:1 — 60 Lb/Acre 2:1 — 70 Lb/Acre 1:1 or steeper — 80 Lb/Acre	Hydrostraw, LLC Manteno, IL Phone: 1-800-545-1755 http://hydrostraw.com/
Enviropam Applied at a rate of 9 Lb/Acre	Innovative Turf Solutions, LLC Cincinnati, OH Phone: 1-513-317-8311 www.innovativeturfsolutions.com
HydraTack, Tack Plus, Tack-P, or Tack-P Plus Applied at a rate of 30 Lb/Acre	Innovative Turf Solutions, LLC Cincinnati, OH Phone: 1-513-317-8311 www.innovativeturfsolutions.com
FI-1045 Hydrobond or FI-1046 Hydrobond Applied at a rate of 15 Lb/Acre	JRM Chemical, Inc. Cleveland, OH Phone: 1-216-475-8488 www.soilmoist.com
HF5000 Tack or Super Tack Applied at a rate of 60 Lb/Acre	Rantec Corporation Ranchester, WY Phone: 1-307-655-9565 www.ranteccorp.com
R-Tack Applied at a rate of 150 Lb/Acre	Rantec Corporation Ranchester, WY Phone: 1-307-655-9565 www.ranteccorp.com
SpecTac Applied at a rate of: Slope None — 30 to 80 Lb/Acre 4:1 — 50 to 100 Lb/Acre 3:1 — 80 to 120 Lb/Acre 2:1 — 100 to 170 Lb/Acre	Rantec Corporation Ranchester, WY Phone: 1-307-655-9565 www.ranteccorp.com
EarthGuard SFM Applied at a rate of 60 LB/Acre (approx. 6 Gallons/Acre)	Terra Novo Inc. Bakersfield, CA Phone: 1-661-747-5956 www.terranovo.com

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PAVEMENT, CURB AND GUTTER, AND SIDEWALK QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B5	B65

Plotting Date: 07/08/2015

		REMOVE								INSTALL														
		Concrete Curb	Concrete Gutter	Concrete Curb and Gutter	Concrete Pavement	Asphalt Concrete Pavement	Concrete Approach Pavement	Concrete Sidewalk	Concrete Retaining Wall	PCC Fillet Section		Concrete Curb and Gutter Type		Concrete Curb	Concrete Gutter	Concrete Gutter Valley	PCC Driveway Pavement		Concrete Sidewalk		Detectable Warnings		Retaining Wall	
										6"	8"	B66	B68	B6	P8	6"	6"		4"	6"	Type 1	Type 2	Type C	
Intersection	**Quadrant**	Ft	Ft	Ft	SqYd	SqYd	SqYd	SqYd	Ft	SqYd	SqYd	Ft	Ft	Ft	Ft	Ft	SqYd		SqFt	SqFt	SqFt	SqFt	SqFt	
NH 0281(99)152																								
16th Avenue (13+28)	Northeast			19.7				6.9					19.7						81.9		10.0			
14th Avenue (22+14)	Northwest			10.0									10.0						74.0		10.0			
	Northeast				18.5			11.8			18.2								113.4		10.0			
	Southeast				16.9			10.1			17.1								96.2		10.0			
13th Avenue (26+44)	Northwest				13.3			5.8			13.4								58.4		10.0			
	Northeast				16.4			21.6			16.3								204.7		10.0			
	Southeast				6.8			24.3			23.0								84.8		10.0			
	Southwest				25.9						25.9								102.7		10.0			
12th Avenue (30+75)	Northwest			12.0	19.4			12.1			18.2		12.0						132.6		10.0			
	Northeast				17.3			18.9			12.8								176.4		10.0			
	Southeast				16.7			23.0			14.6		4.1						199.9		10.0			
	Southwest				15.2			10.6			14.3								109.9		10.0			
11th Avenue (35+03)	Northwest			8.0	24.5			13.4			24.9		8.0						130.2		10.0			
	Northeast			3.0	16.6			25.6			17.4		3.0						240.0		10.0			
	Southeast				15.4			21.2			14.3		2.0						210.0		10.0			
	Southwest				26.6			16.2			25.2								170.7		10.0			
10th Avenue (39+35)	Northwest				24.3			14.5			23.1								151.6		10.0			
	Northeast			8.0	14.3			19.8			14.0		8.0						186.8		10.0			
	Southeast			7.9	14.1			22.5			14.0		7.9						214.9		10.0			
	Southwest				17.3			18.5			16.7								159.3		10.0			
9th Avenue (43+61)	Northwest				20.0			31.4			30.6								187.1		10.0			
	Northeast			6.9	19.9			29.5			24.5		6.9						224.0		10.0			
	Southeast				20.9			24.6			25.8								181.8		10.0			
	Southwest				20.9			18.0			22.5								158.7		10.0			
281 North																								
4th Avenue (383+21)	Southeast			33.4		3.8		9.0				33.4							89.4		10.0			
5th Avenue (387+05)	Northwest			26.3		10.3				13.7									54.0	153.8	10.0			
	Northeast			27.9		8.9		7.3		11.9		3.2							136.3		10.0			
	Southeast			26.9		11.0		10.4		14.4									135.9		10.0			
	Southwest			30.7		10.8		22.2		13.8		4.4							189.0		10.0			
6th Avenue (391+38)	Northwest	6.7		26.9		9.4		32.1		12.9									229.2		20.0			
	Northeast			33.0		9.7		15.4		12.2		6.0							247.9		20.0			
	Southeast			50.6		25.4		15.4		14.3		26.5							260.5		20.0			
	Southwest			26.7		10.8		26.9		14.2									284.5		20.0			
NH 0281(99)152 PCN# 03HS Total:		6.7		357.9	401.2	100.1		539.0		107.4	426.8	73.5	81.6						5276.7	153.8	370.0			

Plot Scale - 1:200

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PAVEMENT, CURB AND GUTTER, AND SIDEWALK QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B6	B65

Plotting Date: 07/08/2015

		REMOVE								INSTALL														
		Concrete Curb	Concrete Gutter	Concrete Curb and Gutter	Concrete Pavement	Asphalt Concrete Pavement	Concrete Approach Pavement	Concrete Sidewalk	Concrete Retaining Wall	PCC Fillet Section		Concrete Curb and Gutter Type		Concrete Curb	Concrete Gutter	Concrete Gutter Valley	PCC Driveway Pavement		Concrete Sidewalk		Detectable Warnings		Retaining Wall	
										6"	8"	B66	B68	B6	P8	6"	6"		4"	6"	Type 1	Type 2	Type C	
Intersection	**Quadrant**	Ft	Ft	Ft	SqYd	SqYd	SqYd	SqYd	Ft	SqYd	SqYd	Ft	Ft	Ft	Ft	Ft	SqYd		SqFt	SqFt	SqFt	SqFt	SqFt	
NH0212(156)306																								
Commercial Lane (48+44)	Northwest			43.9				24.1					43.9						238.0		20.0			
	Northeast			55.5				38.0					55.5						431.4		20.0			
	Southeast			38.3				30.3					38.3						288.2		20.0			
	Southwest			45.4				25.0					45.4						244.4		20.0			
Pope Lane (53+80)	Northeast			29.2									29.2						340.0		10.0			
	Southwest			17.0				28.9					17.0						273.3		10.0			
	Northwest			38.2				28.2					38.2						253.8		20.0			
2nd Street West (55+00)	Northwest			19.0									19.0						293.5		10.0			
	Northeast			10.3									10.3						101.4		10.0			
	Southeast			28.4				18.4					28.4						170.2		10.0			
	Southwest			27.3				19.0					27.3						168.4		10.0			
1st Street West (a -0+37)	Northwest			33.5		8.2		22.7		9.0		13.7							220.0		20.0			
	Northeast			7.7		0.9	2.4	4.2				7.7					1.8		44.9		20.0			
	Southeast			34.5		12.0	2.7	25.6		14.8		7.0					3.4		219.8		24.0			
	Southwest			19.5		2.2		8.1				19.5							102.8		20.0			
Main Street (a 4+00)	Northwest			18.0	15.2	3.9		42.7		14.9		18.0							386.4		24.0			
	Northeast	9.9			15.8	1.9		29.7		14.8				9.5					268.6		24.0			
	Southeast			8.0	13.7	2.3		28.9		13.5		8.0							259.5		24.0			
	Southwest			6.0	15.5	2.6		28.1		14.9		6.0							258.5		24.0			
b 0+30	b 0+40 Rt			10.0		1.1						10.0												
b 2+20	b 2+30 Lt			10.0		1.1						10.0												
1st Street East (b 3+84)	Northwest			32.2		6.5		23.8		6.4		16.5							218.1		20.0			
	Northeast			38.2		8.8	2.5	27.8		9.1		18.4					2.1		247.0		20.0			
	Southeast			34.0		5.4		18.0		8.1		8.9							184.4		20.0			
	Southwest			36.8		6.0		19.3		4.3		24.9							179.8		20.0			
2nd Street East (b 8+16)	Northwest																					20.0		
	Northeast			34.9		8.4		25.8		9.0		15.2							270.1		20.0			
	Southeast			36.0		8.4		47.0		8.8		16.4							519.5		30.0			
	Southwest	11.0	26.8	54.5		13.7	36.0	14.8		9.2		61.3							255.1		26.0			
3rd Street East (c 0+00)	Northwest			18.6				8.1	18.0			18.6							84.0		10.0		36.0	
	Northeast							14.9											148.3		18.0			
	Southeast																					12.0		
	Southwest			26.2		5.8		25.0		6.4		10.6							271.6		14.0			
4th Street East (c 4+28)	Northwest		23.8	43.9		14.4		8.5		13.7		17.0			24.0				163.8		20.0			
	Northeast			36.0		6.0		7.7		7.0		18.7							149.2		20.0			
	Southeast			9.0		1.0						9.0							82.4		10.0			
	Southwest			9.0		1.0						9.0							86.0		10.0			
5th Street East (c 8+57)	Northwest		26.0	33.8		15.8		7.1		14.9		6.2				16.6			141.9		20.0			
	Northeast		26.0	40.3		17.2		14.0		15.0		12.7				16.6			169.1		20.0			
	Southeast		25.3	33.2		15.6		13.8		14.4		6.0				17.2			168.1		20.0			
	Southwest		25.3	30.0		14.7		8.1		13.5		3.7				17.2			144.6		20.0			
	Subtotal:	20.9	153.2	1046.3	60.2	184.9	43.6	685.6	18.0	221.7		373.0	352.5	9.5	24.0	67.6	7.3		8046.1		678.0	32.0	36.0	

Plot Scale - 1:200

Plotted From - trpr13418

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PAVEMENT, CURB AND GUTTER, AND SIDEWALK QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B7	B65

Plotting Date: 07/08/2015

		REMOVE								INSTALL														
		Concrete Curb	Concrete Gutter	Concrete Curb and Gutter	Concrete Pavement	Asphalt Concrete Pavement	Concrete Approach Pavement	Concrete Sidewalk	Concrete Retaining Wall	PCC Fillet Section		Concrete Curb and Gutter Type		Concrete Curb	Concrete Gutter	Concrete Gutter Valley	PCC Driveway Pavement		Concrete Sidewalk		Detectable Warnings		Retaining Wall	
										6"	8"	B66	B68	B6	P8	6"	6"		4"	6"	Type 1	Type 2	Type C	
Intersection	**Quadrant**	Ft	Ft	Ft	SqYd	SqYd	SqYd	SqYd	Ft	SqYd	SqYd	Ft	Ft	Ft	Ft	Ft	SqYd		SqFt	SqFt	SqFt	SqFt	SqFt	
6th Street East (c 12+83)	Northwest		25.5	30.5		16.3		7.6		14.8		3.0				17.1			148.0		20.0			
	Northeast		25.5	34.4		16.3		14.6		14.4		7.3				17.1			248.2		20.0			
	Southeast		24.8	33.2		16.1		8.4		14.7		5.8				16.5			143.2		20.0			
	Southwest		24.8	32.0		16.0		8.3		15.4		4.1				16.5			166.1		20.0			
8th Street East (c 22+16)	Northwest		25.0	38.6	2.0	26.5		9.0		15.1		15.9				14.5			183.8		20.0			
	Northeast		25.0	30.0		15.0		7.6		13.8		4.0				14.5			144.0		20.0			
	Southeast			9.0		1.0						9.0							62.6		10.0			
	Southwest			9.0		1.0						9.0							61.7		10.0			
9th Street East (c 26+80)	Northwest			34.3		26.5		11.5		15.1		6.6				17.0			191.9		20.0			
	Northeast			32.2		25.6		9.4		14.3		5.2				17.0			106.7		10.0			
	Southwest			34.3		11.9				14.6		7.0							159.1		10.0			
	Subtotal:	0.0	150.6	317.5	2.0	172.2	0.0	76.4	0.0	132.2		76.9	0.0	0.0	0.0	130.2	0.0		1615.3		180.0	0.0	0.0	
NH 0212(156)306	**PCN# 023T Total:**	20.9	303.8	1363.8	62.2	357.1	43.6	762.0	18.0	353.9		449.9	352.5	9.5	24.0	197.8	7.3		9661.4		858.0	32.0	36.0	

Plot Scale - 1:200

Plotted From - tnpr13418

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HORIZONTAL ALIGNMENT DATA

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B8	B65

Plotting Date: 07/07/2015

MAINLINE

Type	Station			Northing	Easting
POB	10+00.00			379207.560	2351284.810
		TL= 326.31	N 0°59'38" W		
PI	13+26.31			379533.820	2351279.150
		TL= 1646.40	N 0°54'20" W		
PI	29+72.70			381180.010	2351253.130
		TL= 1169.66	N 0°45'05" W		
PC	41+42.37			382349.574	2351237.791
PI	42+58.35	R = 4583.66	Delta = 2°53'56" L	382465.540	2351236.270
PRC	43+74.27			382581.280	2351228.886
PI	44+90.04	R = 3640.66	Delta = 3°38'33" R	382696.910	2351221.510
PT	46+05.72			382812.676	2351221.495
		TL= 140.53	N 0°00'27" W		
PC	47+46.25			382953.203	2351221.476
PI	53+16.48	R = 580.00	Delta = 89°01'35" R	383523.430	2351221.400
PT	56+47.46			383533.195	2351791.544
EQNBK	57+19.76			383534.433	2351863.835
EQNAHD	a -2+49.73			383534.433	2351863.835
		TL= 72.30	N 89°01'08" E		
PI	a -2+49.73			383534.433	2351863.837
		TL= 705.13	N 89°01'53" E		
PI	a 4+55.40			383546.354	2352568.863
EQNBK	a 4+55.40			383546.354	2352568.864
EQNAHD	b 0+00.00			383546.354	2352568.864
		TL= 1250.00	N 89°02'54" E		
PI	b 12+50.00			383567.115	2353818.691
EQNBK	b 12+50.00			383567.115	2353818.692
EQNAHD	c 0+00.00			383567.115	2353818.692
		TL= 3395.88	N 89°06'24" E		
PC	c 33+95.88			383620.062	2357214.159
PI	c 36+31.26	R = 2864.79	Delta = 9°23'39" L	383623.731	2357449.510
PT	c 38+65.58			383665.767	2357681.105
		TL= 166.94	N 79°42'45" E		
POE	c 40+32.52			383695.580	2357845.360

US281N

POB	382+13.55			384930.729	2353793.148
		TL= 1363.85	S 1°04'23" E		
POE	395+77.40			383567.115	2353818.691

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System.North Zone (NAD 83/2007) Geiod 09 SF = 0.99988587

Plot Scale - 1:200
Plotted From - tnpr13418
File - ...\rd\pr\spnk0231T\DataHoriz.dgn

CONTROL DATA

HORIZONTAL AND VERTICAL CONTROL POINTS						
POINT	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	13+30.36	79.83' R	PK NAIL RIGHT MRM 152.737	379539.137	2351358.908	1311.320
2	22+14.06	54.00' R	PK NAIL MRM152.904	380422.318	2351319.111	1304.090
3	26+43.43	53.86' R	PK NAIL RIGHT MRM 152.985	380851.623	2351312.189	1303.970
4	30+75.59	53.88' R	PK NAIL RIGHT MRM 152.985	381283.692	2351305.656	1303.010
5	35+04.09	53.99' R	PK NAIL RIGHT MRM 153.121	381712.054	2351300.145	1300.840
6	39+35.29	53.87' R	PK NAIL RIGHT MRM 153.203	382143.218	2351294.372	1299.210
7	43+59.19	53.97' R	PK NAIL RIGHT MRM 153.283	382569.485	2351283.694	1297.820
8	47+26.10	119.92' L	REBAR AND CAP LEFT MRM 153.352	382933.037	2351101.559	1294.710
9	53+67.61	130.00' L	PK NAIL LEFT MRM 306.564	383576.491	2351461.323	1300.730
10	a-0+38.98	53.05' L	PK NAIL LEFT MRM 306.667	383591.042	2352073.660	1300.940
11	a 4+00.82	33.24' R	PK NAIL RIGHT MRM 306.751	383512.197	2352514.850	1301.020
12	b 3+83.58	55.31' L	PK NAIL RIGHT MRM 306.834	383608.031	2352951.468	1303.460
13	b 3+81.88	46.66' R	PK NAIL RIGHT MRM 306.834	383506.046	2352951.468	1306.510
14	b 8+18.69	48.19' R	PK NAIL RIGHT MRM 306.916	383511.768	2353388.240	1298.910
15	c 4+28.72	48.54' L	PK NAIL LEFT MRM 307.050	383622.332	2354246.602	1295.430
16	c 8+56.83	50+53'R	PK NAIL RIGHT MRM 307.131	383529.947	2354676.210	1293.760
17	c12+84.86	54.10' R	PK NAIL RIGHT MRM 307.212	383533.053	2355104.241	1293.190
18	c22+16.64	53.94' L	PK NAIL LEFT MRM 307.339	383655.608	2356034.221	1295.170
19	c26+82.12	52.90' L	PK NAIL LEFT MRM 307.477	383661.827	2356499.659	1295.810
20	c33+11.41	41.73' R	PK NAIL LEFT MRM 307.596	383660.469	2357129.050	1294.400
21	c37+33.25	35.35' L	PK NAIL RIGHT MRM 307.677	383610.118	2357555.102	1293.580
22	393+53.48	0.28' L	PK NAIL MRM 153.923	383791.006	2353814.780	1299.020
23	389+22.06	0.02' R	PK NAIL MRM 154.005	384222.338	2353806.396	1297.570
24	385+07.54	1.04' L	PK NAIL MRM 154.084	384636.810	2353799.697	1294.080

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System.
North Zone (NAD 83/2007) Geiod 09 SF = 0.99988587
The elevations shown on this sheet are based on NAVD 88.

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B10	B65

Plotting Date: 11/07/2014

EXISTING TOPOGRAPHY SYMBOLOGY AND LEGEND

Anchor
Antenna
Approach
Assumed Corner
Azimuth Marker
BBQ Grill/ Fireplace
Bearing Tree
Bench Mark
Box Culvert
Bridge
Brush
Buildings
Bulk Tank
Cattle Guard
Cemetery
Centerline
Cistern
Clothes Line
Commercial Sign Double Face
Commercial Sign One Post
Commercial Sign Overhead
Commercial Sign Two Post
Concrete Symbol
Creek Edge
Curb/Gutter
Curb
Dam Grade/Dike/Levee
Deck Edge
Ditch Block
Doorway Threshold
Drainage Profile
Drop Inlet
Edge Of Asphalt
Edge Of Concrete
Edge Of Gravel
Edge Of Other
Edge Of Shoulder
Elec. Trans./Power Jct. Box
Fence Barbwire
Fence Chainlink
Fence Electric
Fence Misc.
Fence Rock
Fence Snow
Fence Wood
Fence Woven
Fire Hydrant
Flag Pole
Flower Bed
Gas Valve Or Meter
Gas Pump Island
Grain Bin
Guardrail
Guide Sign One Post
Guide Sign Two Post
Gutter
Guy Pole
Haystack

Hedge
Highway R.O.W. Marker
Interstate Close Gate
Iron Pin
Irrigation Ditch
Lake Edge
Lawn Sprinkler
Mailbox
Manhole Electric
Manhole Gas
Manhole Misc
Manhole Sanitary Sewer
Manhole Storm Sewer
Manhole Telephone
Manhole Water
Merry-Go-Round
Microwave Radio Tower
Misc. Line
Misc. Property Corner
Misc. Post
Overhang Or Encroachment
Overhead Utility Line — OH —
Parking Meter
Pipe With End Section
Pipe With Headwall
Pipe Without End Section
Playground Slide
Playground Swing
Power And Light Pole
Power And Telephone Pole
Power Meter
Power Pole
Power Pole And Transformer
Power Tower Structure
Propane Tank
Property Pipe
Property Pipe With Cap
Property Stone
Public Telephone
Railroad Crossing Signal
Railroad Milepost Marker
Railroad Profile
Railroad R.O.W. Marker
Railroad Signs
Railroad Switch
Railroad Track
Railroad Trestle
Rebar
Rebar With Cap
Reference Mark
Regulatory Sign One Post
Regulatory Sign Two Post
Retaining Wall
Riprap
River Edge
Rock And Wire Baskets
Rockpiles
Satellite Dish
Septic Tank

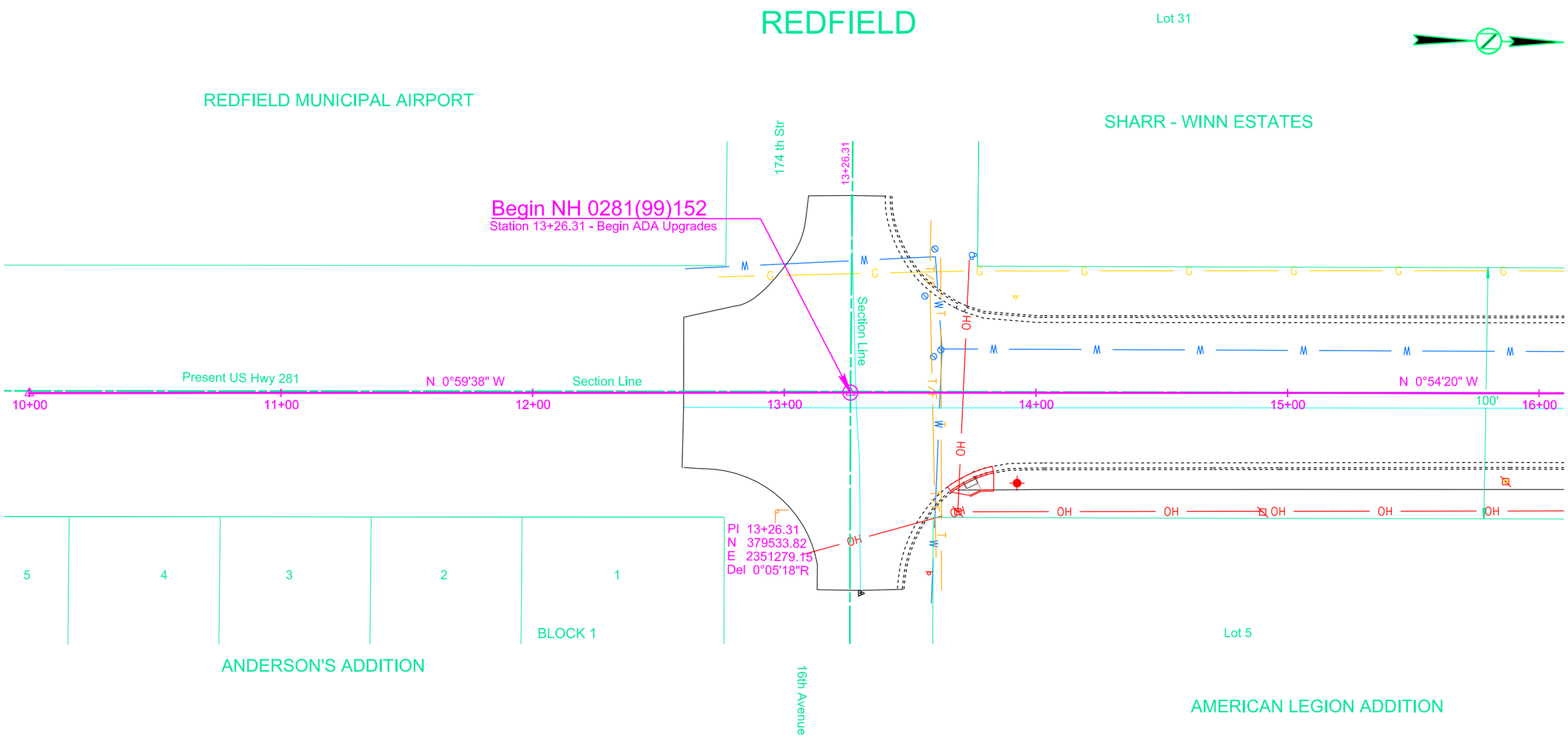
Shrub Tree
Sidewalk
Sign Face
Sign Post
Slough Or Marsh
Spring
Stream Gauge
Street Marker
Subsurface Utility Exploration Test Hole
Telephone Fiber Optics — T/F —
Telephone Junction Box
Telephone Pole
Television Cable Jct Box
Television Tower
Test Wells/Bore Holes
Traffic Signal
Trash Barrel
Tree Belt
Tree Coniferous
Tree Deciduous
Tree Stumps
Triangulation Station
Underground Electric Line — P —
Underground Gas Line — G —
Underground High Pressure Gas Line — HG —
Underground Sanitary Sewer — S —
Underground Storm Sewer — S —
Underground Tank
Underground Telephone Line — T —
Underground Television Cable — TV —
Underground Water Line — W —
Warning Sign One Post
Warning Sign Two Post
Water Fountain
Water Hydrant
Water Meter
Water Tower
Water Valve
Water Well
Weir Rock
Windmill
Wingwall
Witness Corner

State and National Line
County Line
Section Line
Quarter Line
Sixteenth Line
Property Line
Construction Line
R. O. W. Line
New R. O. W. Line
Cut and Fill Limits
Control of Access
New Control of Access
Proposed ROW
(After Property Disposal)

Plot Scale - 1:200
Plotted From - trgr17192
File - ...\rd\prj\spnk0231\topogsymb.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B11	B65

Plotting Date: 07/01/2015



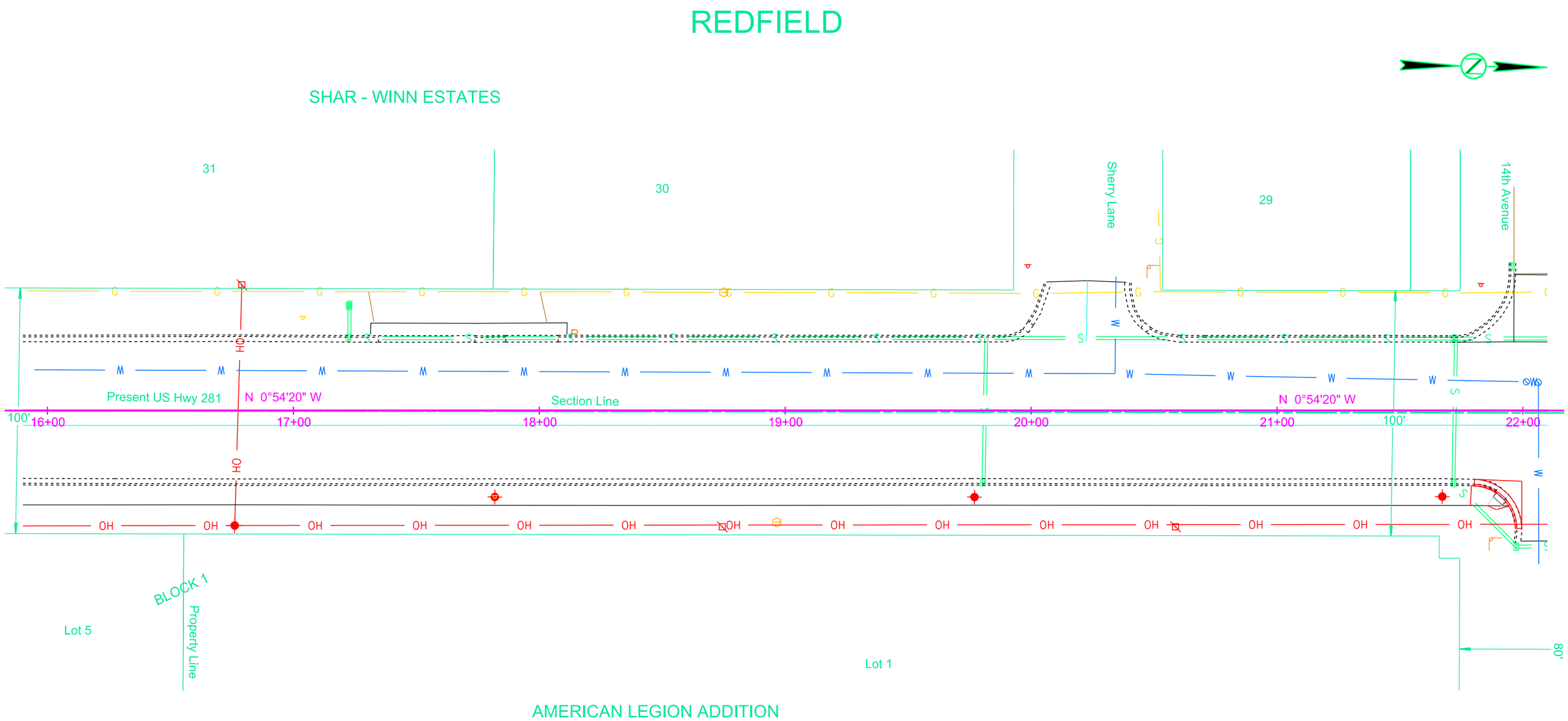
Plot Scale - 1:40

Plotted From - tnp17192

File - U:\rdphlspnk0231\010.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B12	B65

Plotting Date: 02/10/2015



Plot Scale - 1:40

Plotted From - tpr17192

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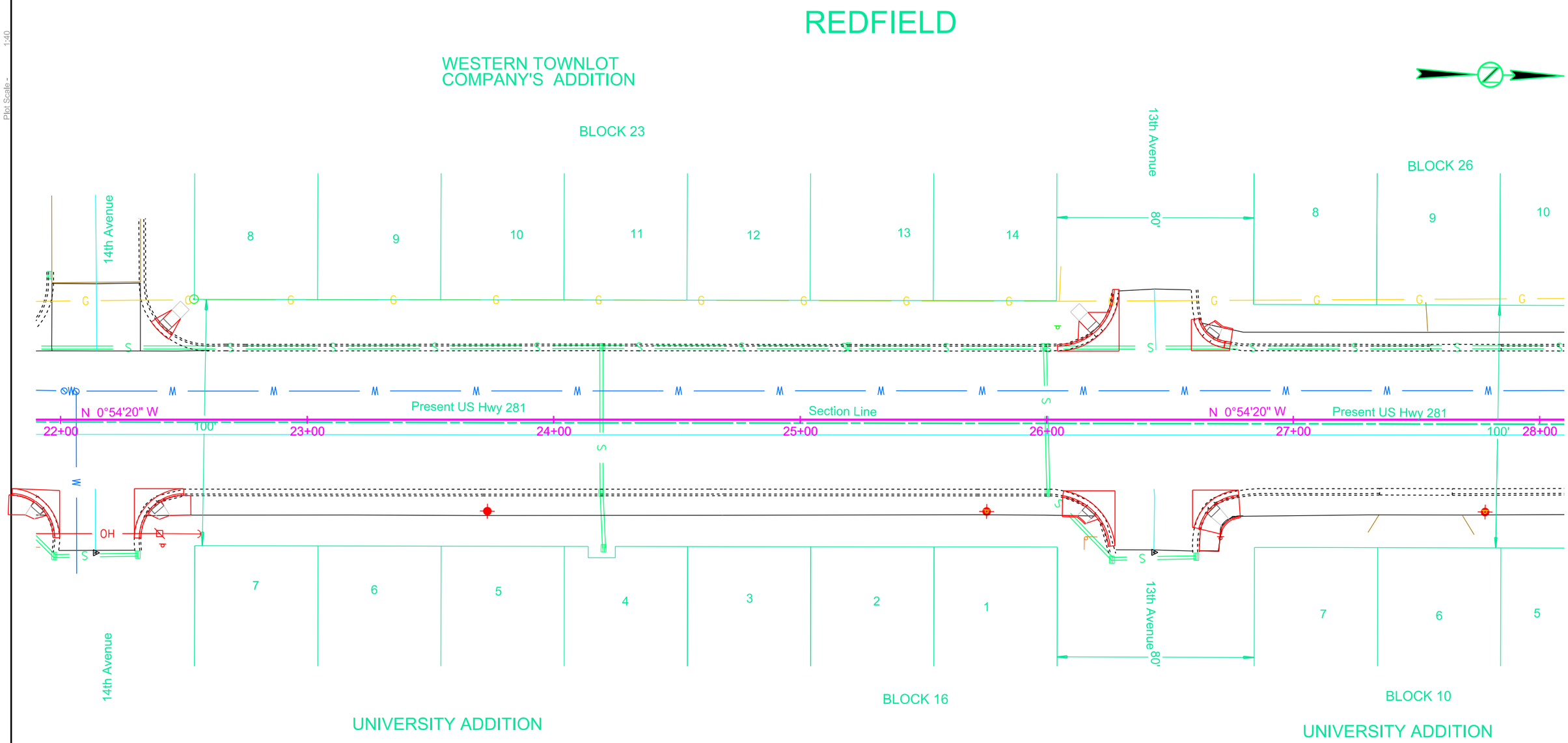
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B13	B65

Plotting Date: 02/10/2015



Plot Scale - 1:40

Plotted From - tpp17192

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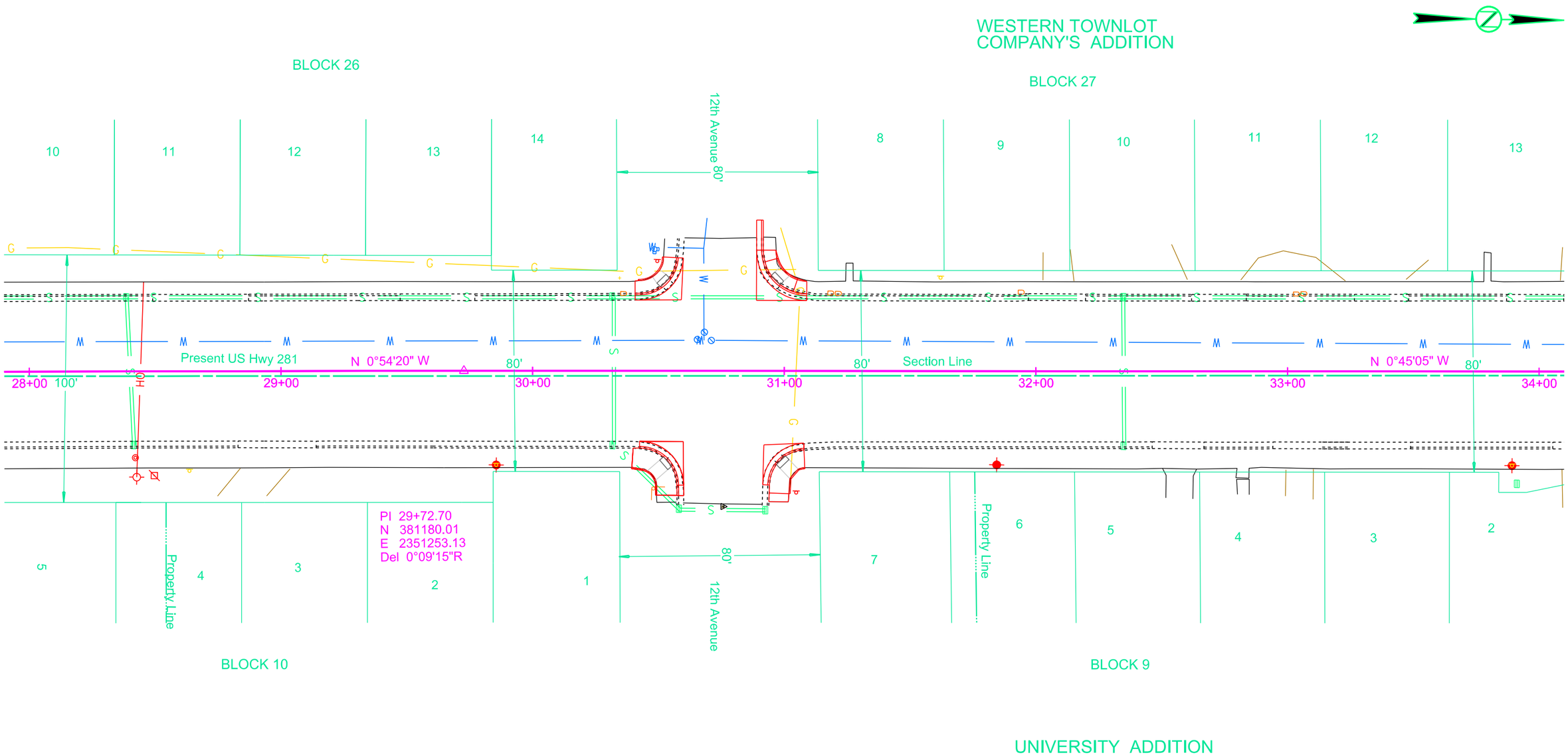
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B14	B65

Plotting Date: 02/10/2015

REDFIELD



Plot Scale - 1:40

Plotted From - tnpr17192

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B15	B65

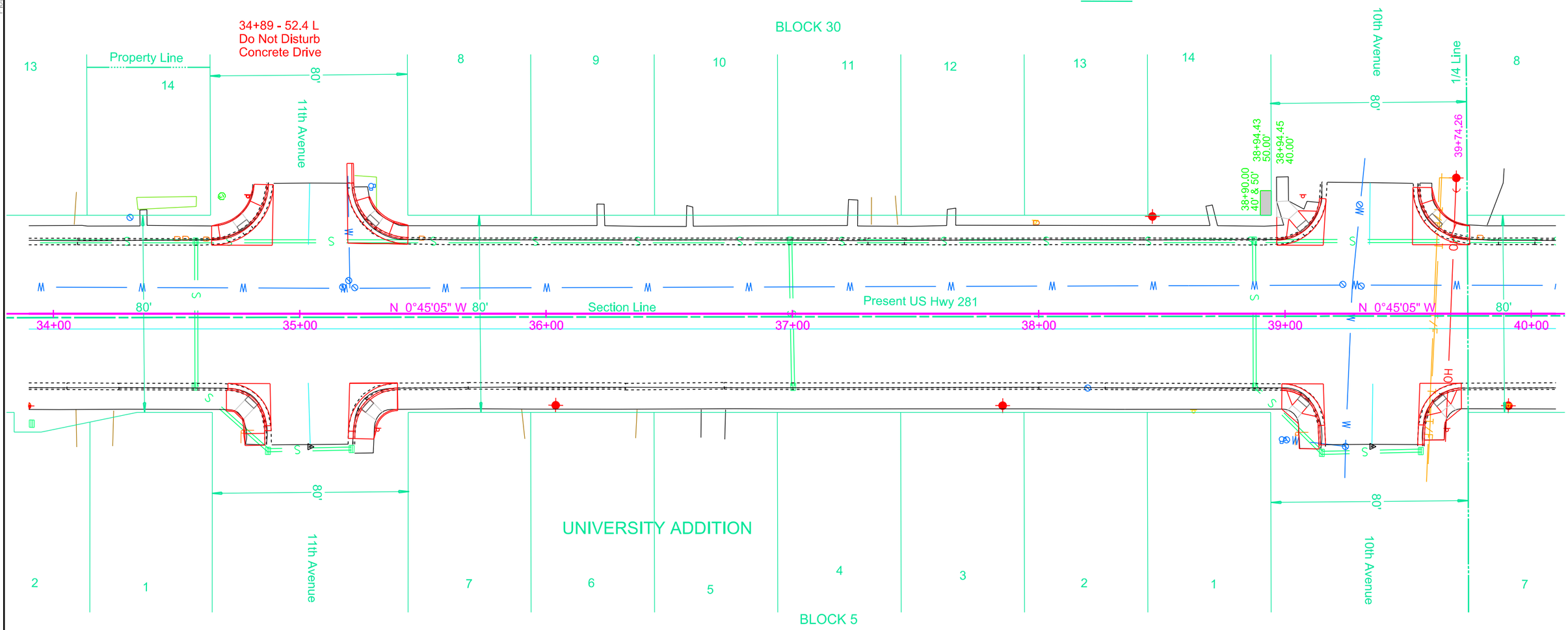
Plotting Date: 02/10/2015

REDFIELD

Bernice G. Rohrbach

Lot 14 in Block 30 of
Western Town Lot
Company's Addition
to the Town of Redfield

Parcel A1



Parcel A1
38+90.00 to 38+94.45 L
Temporary Easement
for Sidewalk containing
(45 sq ft.) more or less

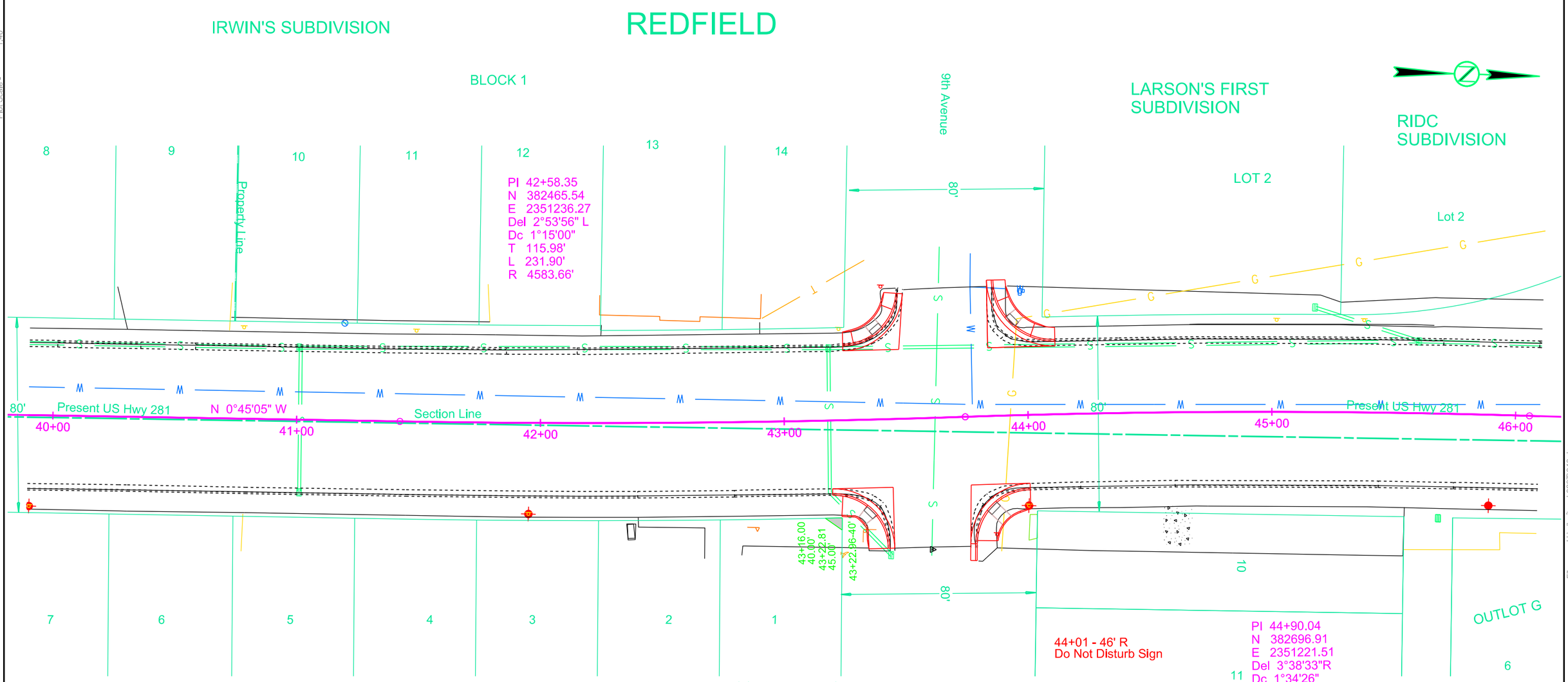
Plot Scale - 1:40

Plotted From - trpr17192

File - U:\rdep\jspnk0231\034.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B16	B65

Plotting Date: 07/07/2015 Revised 11-7 - 2014 (BT)



Plot Scale - 1:40

Plotted From - trpr17192

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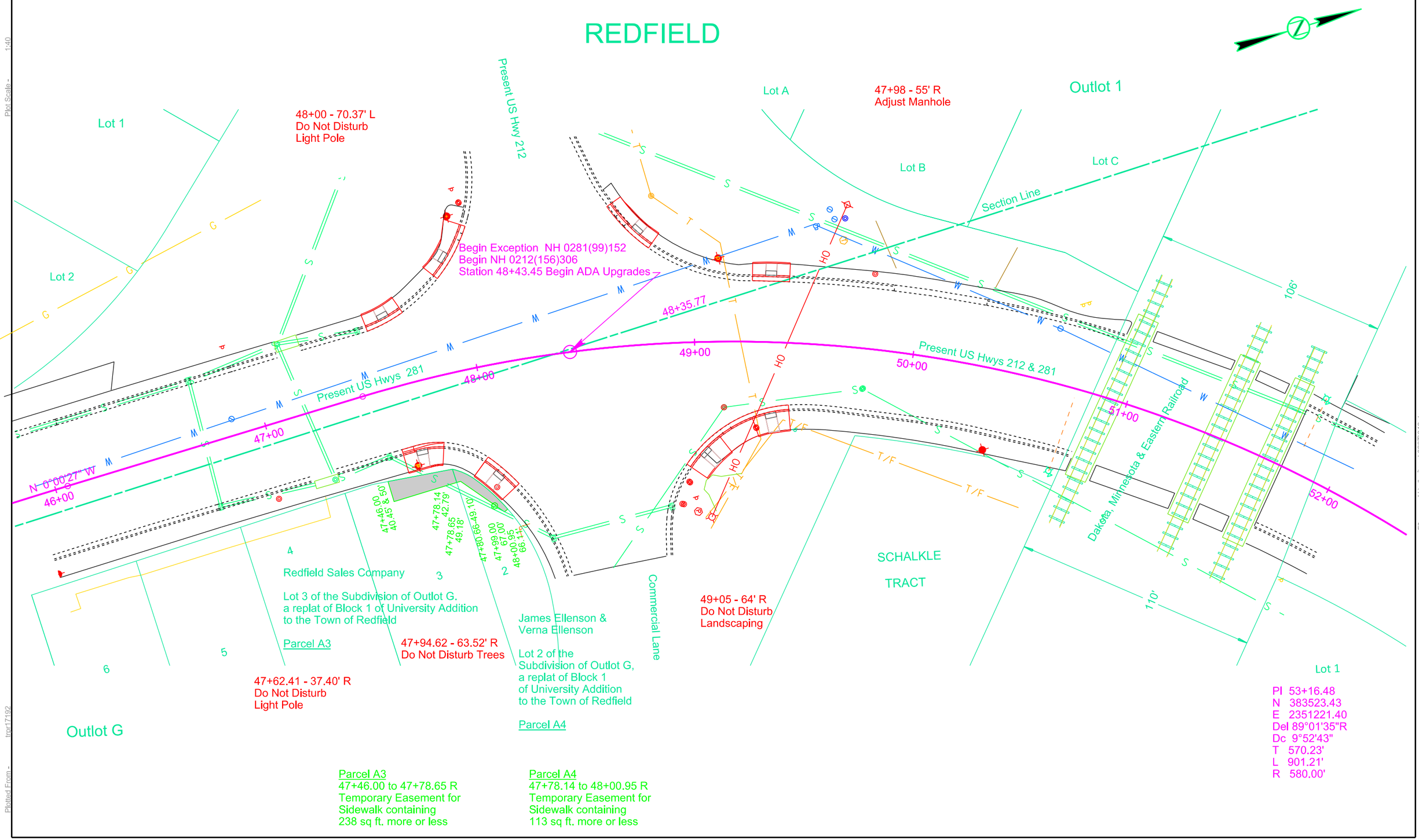
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B17	B65

Plotting Date: 07/07/2015



Plot Scale - 1:40

Plotted From - tpp17192

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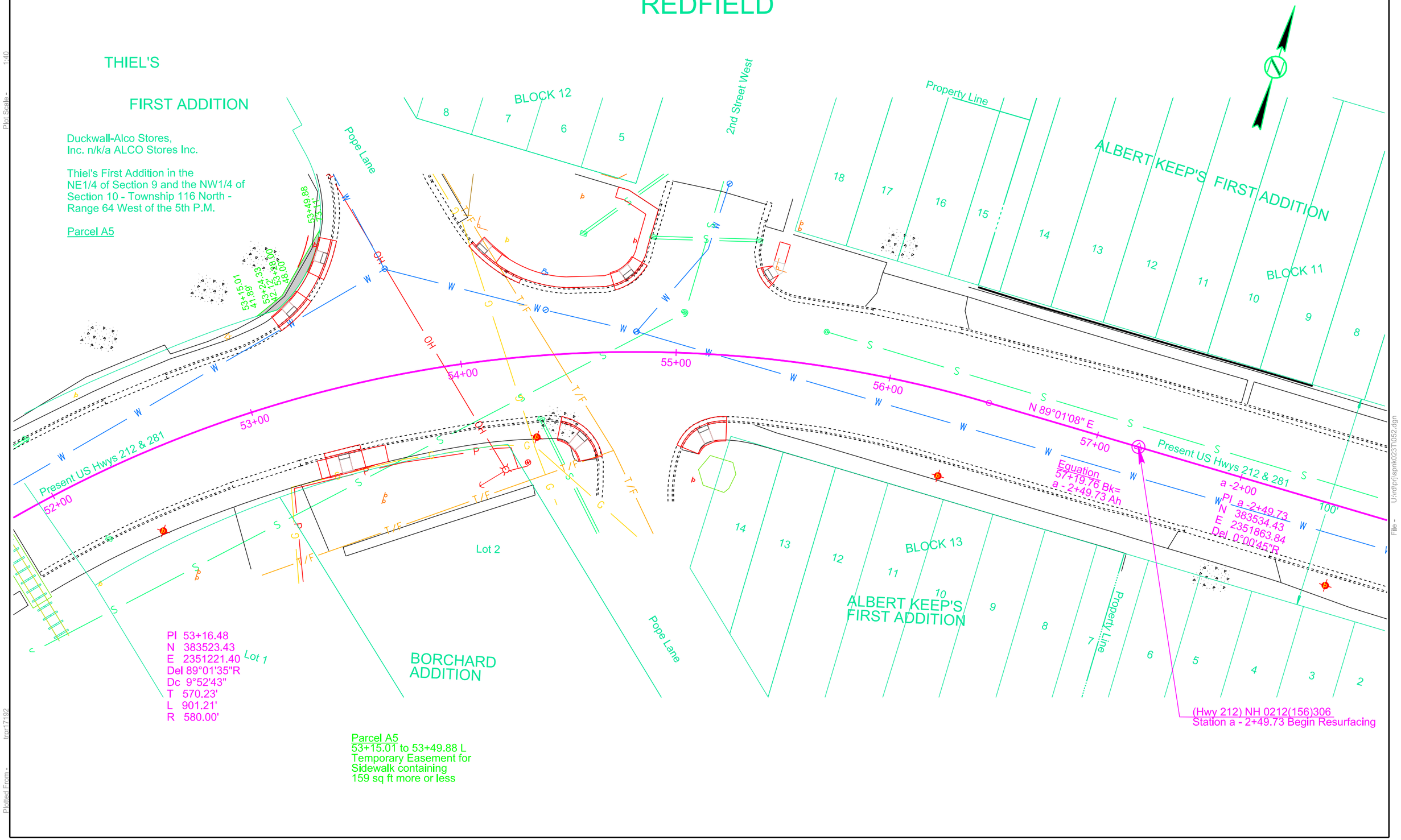
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B18	B65

Plotting Date: 07/01/2015

REDFIELD



Plot Scale - 1:40

Plotted From - tpp17192

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B19	B65

Plotting Date: 07/07/2015 Revised 11-7 - 2014 (BT)

a -0+67-32'L
Adjust Drop Inlet
Remove and Reset
Frame & Grate

a 3+62.77-39.9'L
Remove & Reset
Frame & Grate

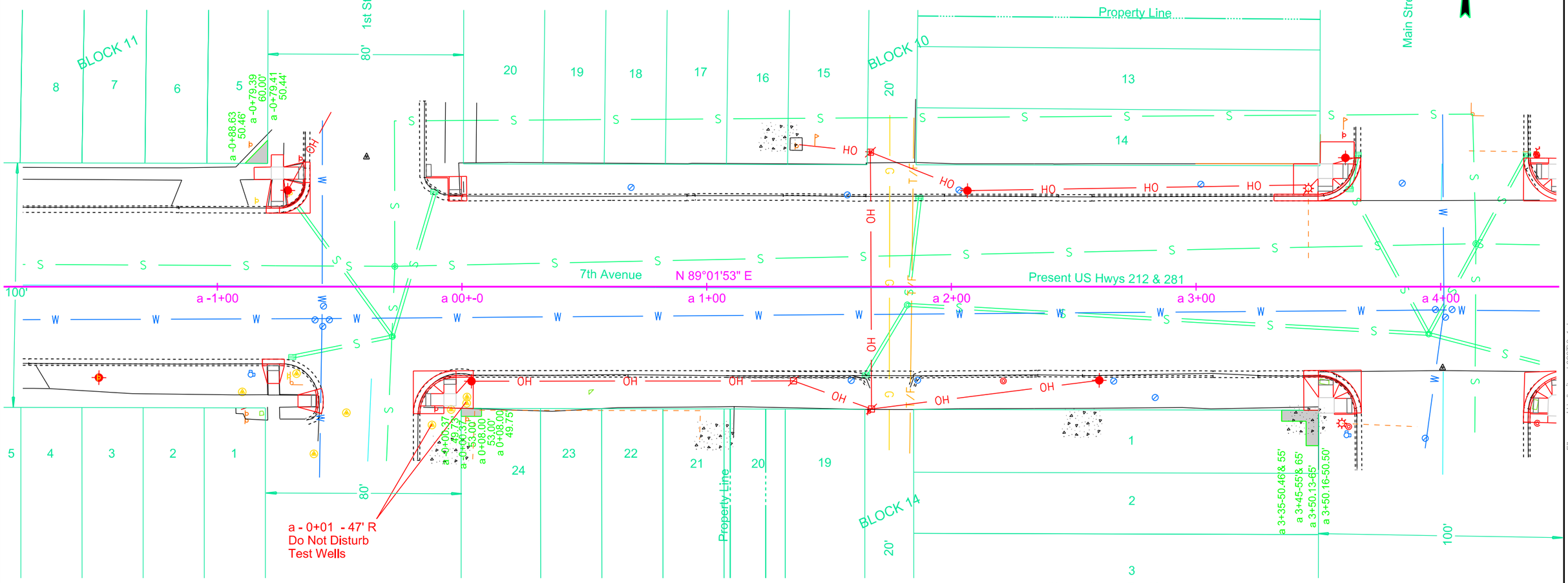
Lynette Knigge

Lot 5 in Block 11
of Albert Keep's First Addition
to the Town of Redfield

Parcel A6

ALBERT KEEP'S FIRST ADDITION

a 3+61.07 - 52.72' L
Do Not Disturb
Light Pole



ALBERT KEEP'S FIRST ADDITION

Daniel E. Appel & Vickie R. Appel

North 80 feet of Lot 24 in Block 14
of Albert Keep's First Addition
to the Town of Redfield

Parcel A7

Shawn Chase Ford Inc.

Lot 1 in Block 14 of
Albert Keep's First Addition
to the Town of Redfield

Parcel A8

Parcel A6
a - 0+88.63 to a - 0+79.41 L
Temporary Easement for
Sidewalk containing
44 sq ft. more or less

Parcel A7
a - 0+00.37 to a 0+08.00 R
Temporary Easement for
Sidewalk containing
27 sq ft more or less

Parcel A8
a 3+35.00 to a 3+50.16 R
Temporary easement for
Sidewalk containing
120 sq ft, more or less

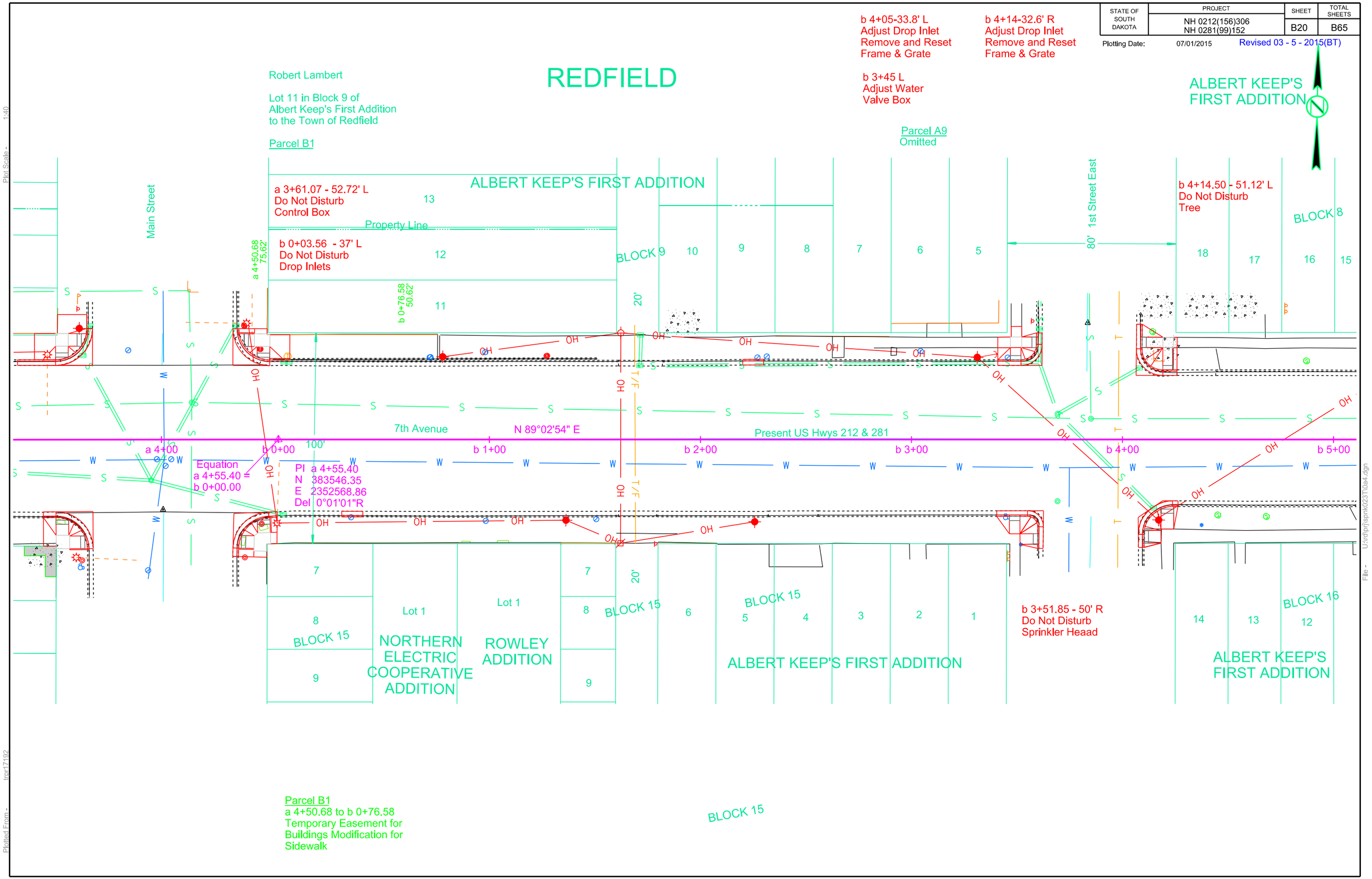
Plot Scale - 1:40

Plotted From - tcpr17192

File - U:\rdprj\spnk0231\0a1.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B20	B65

Plotting Date: 07/01/2015 Revised 03 - 5 - 2015(BT)



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B21	B65

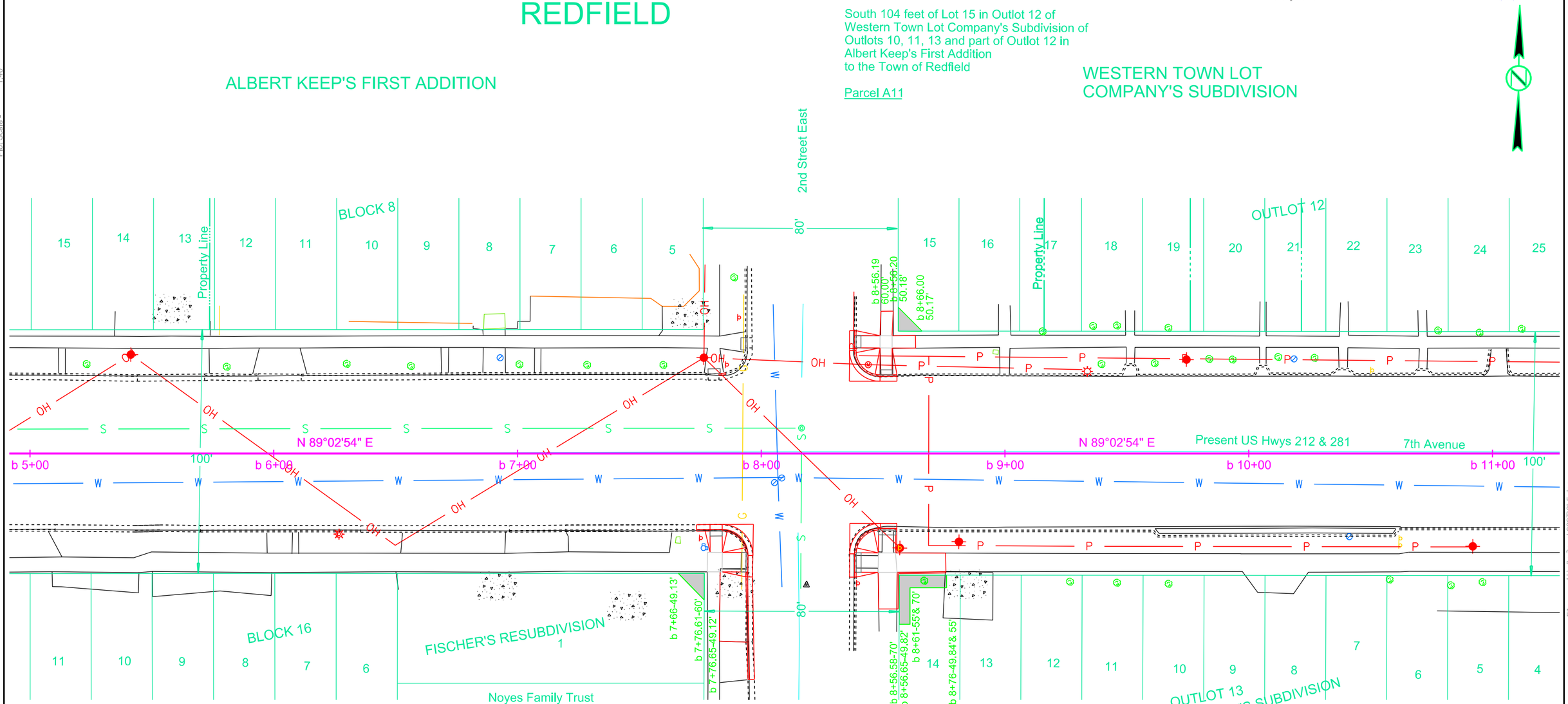
Plotting Date: 02/26/2015 Revised 11-7 - 2014 (BT)

REDFIELD

Joseph J. Lutter & Alisa L. Lutter

South 104 feet of Lot 15 in Outlot 12 of
Western Town Lot Company's Subdivision of
Outlots 10, 11, 13 and part of Outlot 12 in
Albert Keep's First Addition
to the Town of Redfield

Parcel A11



Noyes Family Trust

Lot 1 of Fischer's Resubdivision of
Block 16 of ALbert Keep's First Addition
to the Town of Redfield

Parcel A10

b 7+95 -53.67' R
Elim Entrance

b 8+57.98 -52.29' R
Do Not Disturb
Utility Box

b 8+67.05 -52.17' R
Do Not Disturb Tree

b 8+76 -50' R
Do Not Disturb Memorial

County of Spink

Lot 14 in Outlot 13 of
Western Town Lot Company's Subdivision of
Outlots 10, 11, 13 and part of Outlot 12 in
Albert Keep's First Addition
to the Town of Redfield

Parcel A14

ALBERT KEEP'S FIRST ADDITION

Parcel A10
b 7+66.00 to b 7+76.65 R
Temporary easement for
Sidewalk containing
58 sq ft, more or less

Parcel A11
b 8+56.19 to b 8+66.00 L
Temporary Easement for
Sidewalk containing
48 sq ft. more or less

Parcel A14
b 8+56.58 to b 8+76.00 R
Temporary easement for
Sidewalk containing
166 sq ft, more or less

Plot Scale - 1:40
Plotted From - tpp13418
File - U:\rdp\jspnk023T0b5.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B22	B65

Plotting Date: 07/01/2015 Revised 6 - 10 - 2015(BT)

REDFIELD

Dallas Schultz & Amanda Schultz

Lot 26 in Outlot 12 of
Western Town Lot Company's Subdivision of
Outlots 10, 11, 13 and part of
Outlot 12 of Albert Keep's First Addition
to the Town of Redfield

Parcel A12

b11+58 - 49.93' - 55' L
Do Not Disturb Fence

Daniel E. Appel & Vickie R. Appel

Lot 27 in Outlot 12 of
Western Town Lot Company's Subdivision of
Outlots 10, 11, 13 and part of Outlot 12 in
Albert Keep's First Addition
to the Town of Redfield

Parcel A13

Casey's Retail Company

Lot 8 in Block 8 and a 12 foot wide strip of
land adjacent to the west side of Lot 8
in Block 8 of
Fisher & Foster's First Addition
to the Town of Redfield

Parcel A16

FISHER AND FOSTER'S FIRST ADDITION

BLOCK 8

PETERSON FARMS FIRST SUBDIVISION

Parcel E1
Omitted

4th Street East

24 25 26 27 28 8 9 10 11 12 13 2

b 11+45-49.94'& 55'
b 11+57-49.93'& 55'
b 11+82.07-55'
b 11+82.08-49.91'
c 0+48.10
70.00'
c 0+54.00
73.00'
c 0+62.00
60.00'
c 0+76.00
49.86' & 52.00
c 0+47.10
49.80'

Present US Hwy 281
3rd Street East
80'
395+77

N 89°02'54" E
N 89°06'24" E
Present US Hwy 212
7th Avenue

b 11+00 100' b 12+00 c 0+00 c 1+00 c 2+00 c 3+00 100' c 4+00 100'

Equation
b 12+50.00 =
c 0 +00

PI b 12+50.00
N 383567.11
E 2353818.69
Del 0°03'30"R

5 4 3 2 1 7 6 5 4 3 2 1 7

b 11+75-50.09'& 55'
b 12+06.67-55'
b 12+06.68-50.11'

c 11+90-55' R
Do Not Disturb
Monument

c 12+06 R
Do Not Disturb
Landscaping

80' 3rd Street East
c 0+47.12
1/4 Line

End Exception NH 0281(99)152
Station 395+77.4 - Begin Resurfacing

BLOCK 9

RAILROAD FIFTH ADDITION

Property Line
Vacated 4th Street East

County of Spink

Lots 1 and 2 in Outlot 13 of
Western Town Lot Company's Subdivision of
Outlots 10, 11, 13 and part of Outlot 12 in
Albert Keep's First Addition
to the Town of Redfield

Parcel A15

FISHER AND FOSTER'S FIRST ADDITION

City of Redfield

Grow Spink Inc.

Parcel A12
b 11+45.00 to b 11+57.00 L
Temporary easement for
Sidewalk containing
61 sq ft, more or less

Parcel A13
b 11+57.00 to b 11+82.08 L
Temporary easement for
Retaining Wall containing
127 sq ft, more or less

Parcel A15
b 11+75.00 to b 12+06.68 R
Temporary easement for
Sidewalk containing
155 sq ft, more or less

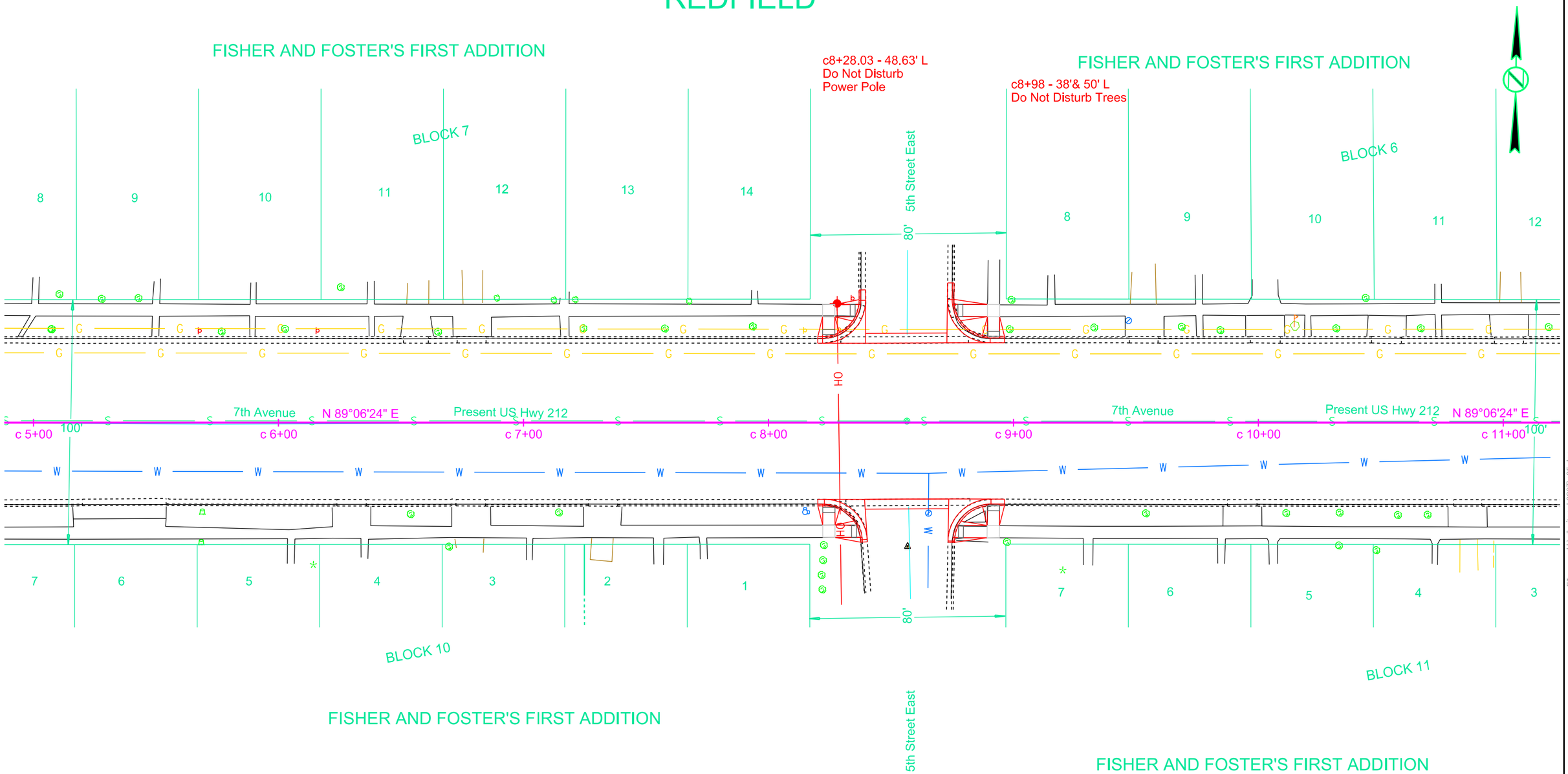
Parcel A16
c 0+48.10 to c 0+76.00 L
Temporary Easement for
Sidewalk containing
256 sq ft. more or less

Plot Scale - 1:40
Plotted From - tnpr17192
File - U:\rdpn\spnk0231\b11.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B23	B65

Plotting Date: 02/20/2015

REDFIELD



Plot Scale - 1:40

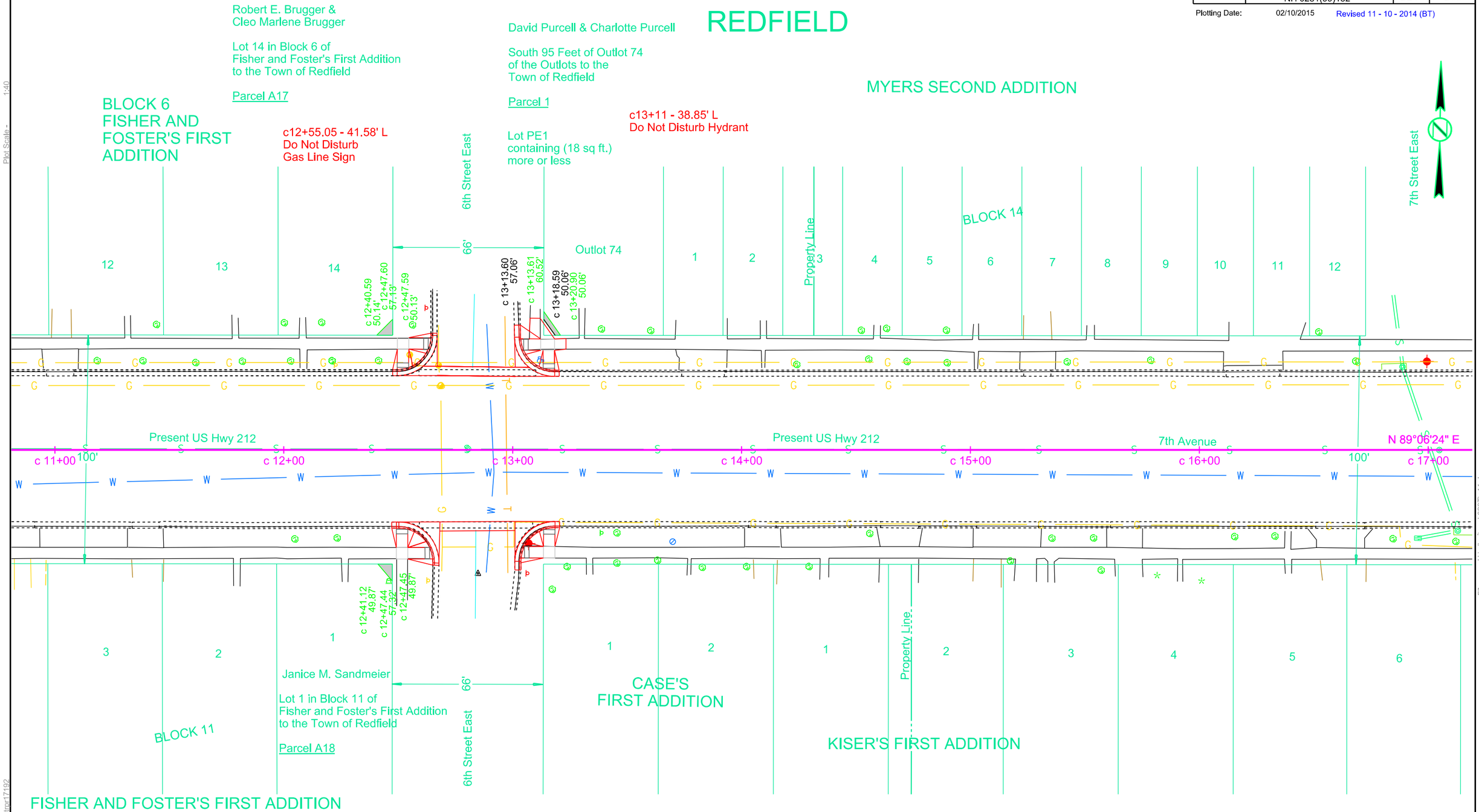
Plotted From - trgt17192

File - U:\rdprj\spnk0231\c05.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B24	B65

Plotting Date: 02/10/2015 Revised 11 - 10 - 2014 (BT)

REDFIELD



Parcel A17
c 12+40.59 to c 12+47.60 L
Temporary Easement for
Sidewalk containing
25 sq ft. more or less

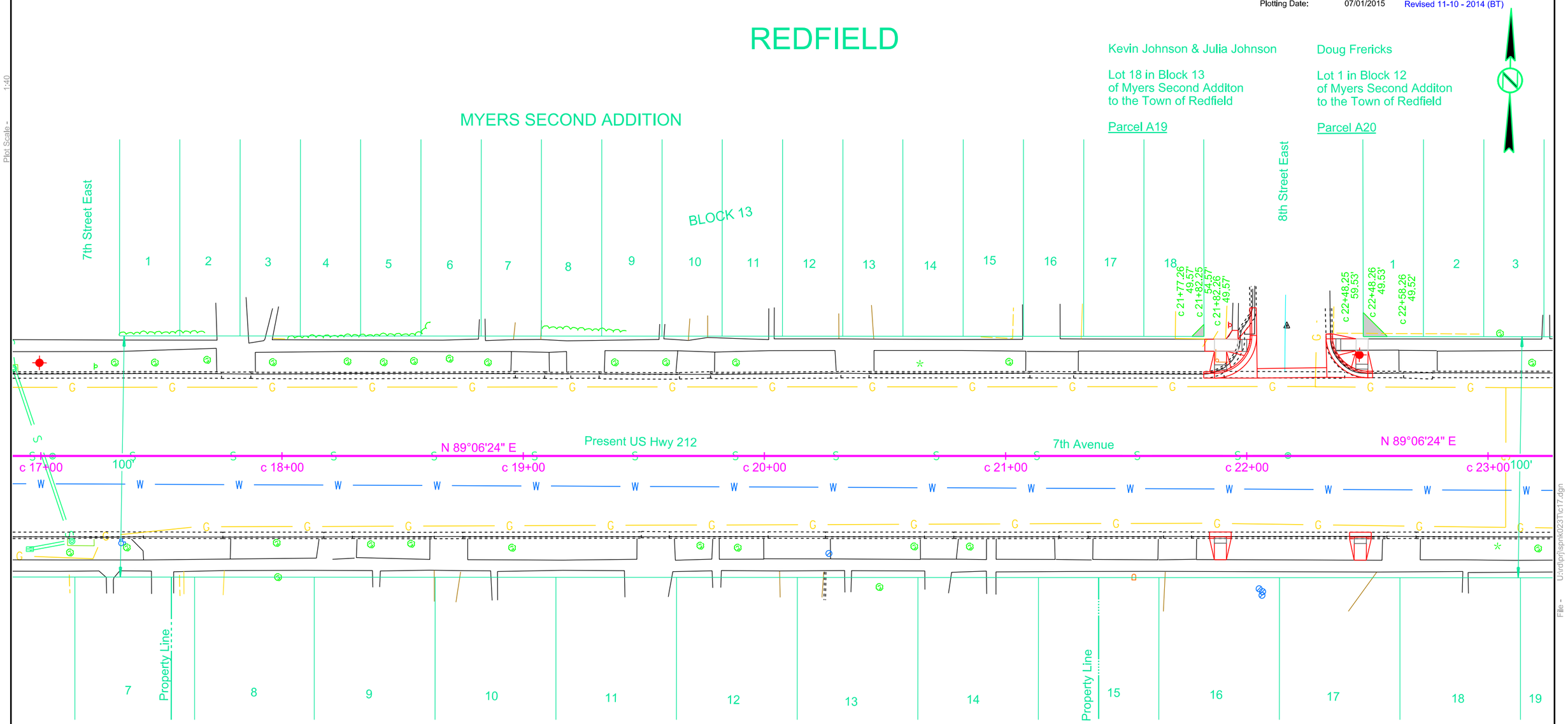
Parcel A18
c 12+41.12 to c 12+47.45 R
Temporary Easement for
Sidewalk containing
24 sq ft. more or less

Parcel 1
c 13+13.60 to c 13+20.90 L
Temporary Easement for
Sidewalk containing
21 sq ft. more or less

Plot Scale - 1:40
Plotted From - tmpr17192
File - Uvrdphjspnk0231Tc11.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B25	B65

Plotting Date: 07/01/2015 Revised 11-10 - 2014 (BT)



Parcel A19
c 21+77.26 to c 21+82.26 L
Temporary Easement for
Sidewalk containing
13 sq ft. more or less

Parcel A20
c 22+48.25 to c 22+58.26 L
Temporary Easement for
Sidewalk containing
50 sq ft. more or less

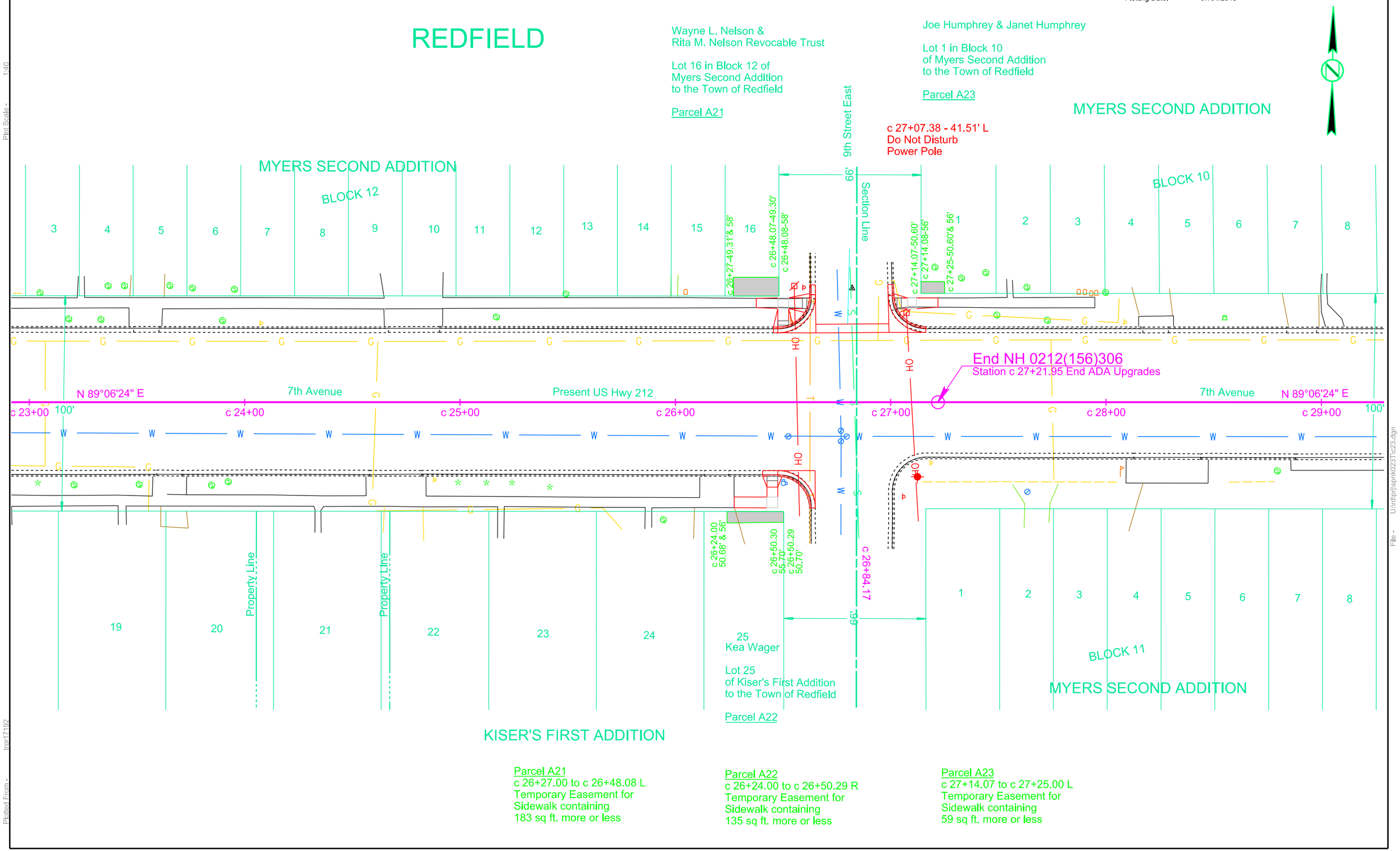
Plot Scale - 1:40

Plotted From - tpp17192

File - U:\rdp\jspnk023\tc17.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B26	B65

Plotting Date: 07/01/2015



Parcel A21
c 26+27.00 to c 26+48.08 L
Temporary Easement for
Sidewalk containing
183 sq ft. more or less

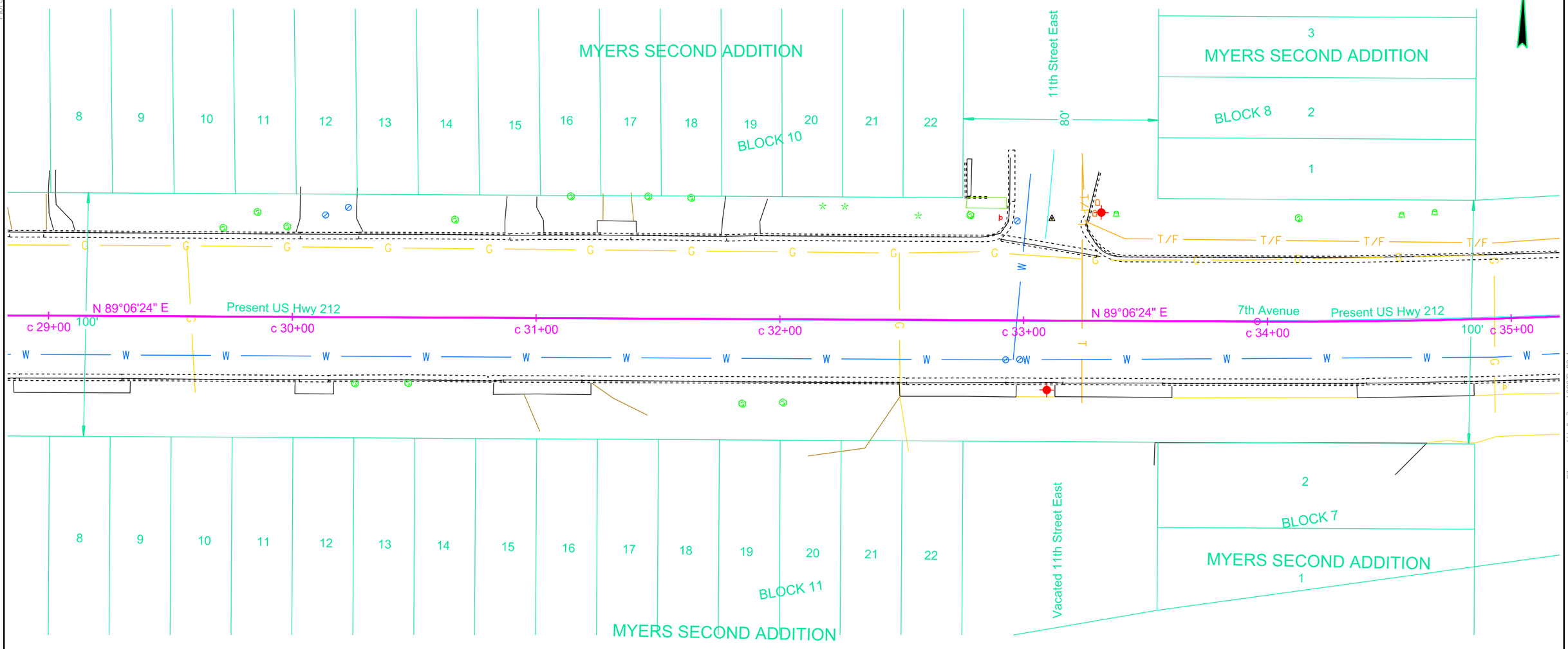
Parcel A22
c 26+24.00 to c 26+50.29 R
Temporary Easement for
Sidewalk containing
135 sq ft. more or less

Parcel A23
c 27+14.07 to c 27+25.00 L
Temporary Easement for
Sidewalk containing
59 sq ft. more or less

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B27	B65

Plotting Date: 07/01/2015

REDFIELD



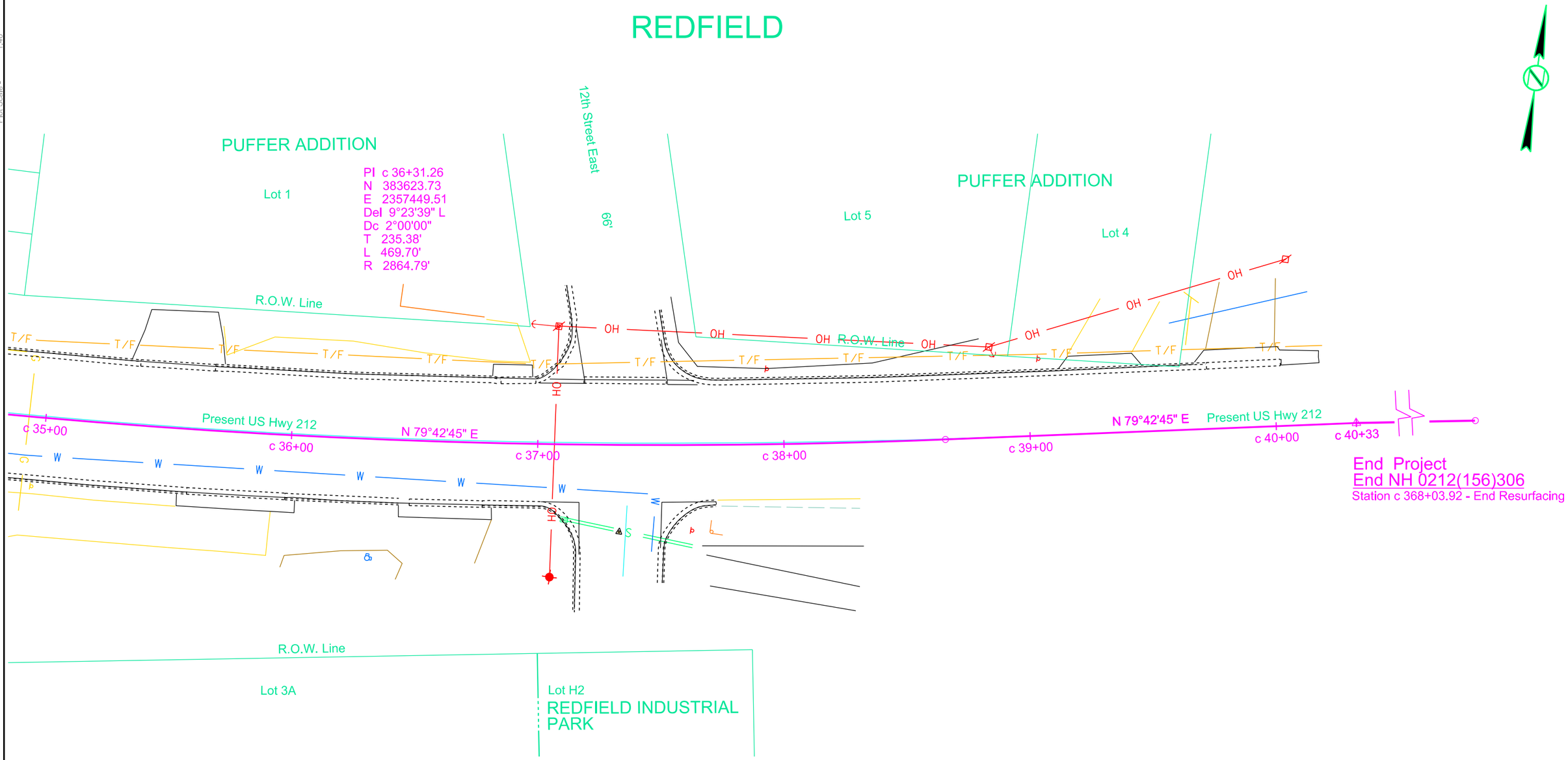
Plot Scale - 1:40

Plotted From - tqp17192

File - U:\rdph\spnk0231\c29.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B28	B65

Plotting Date: 07/07/2015



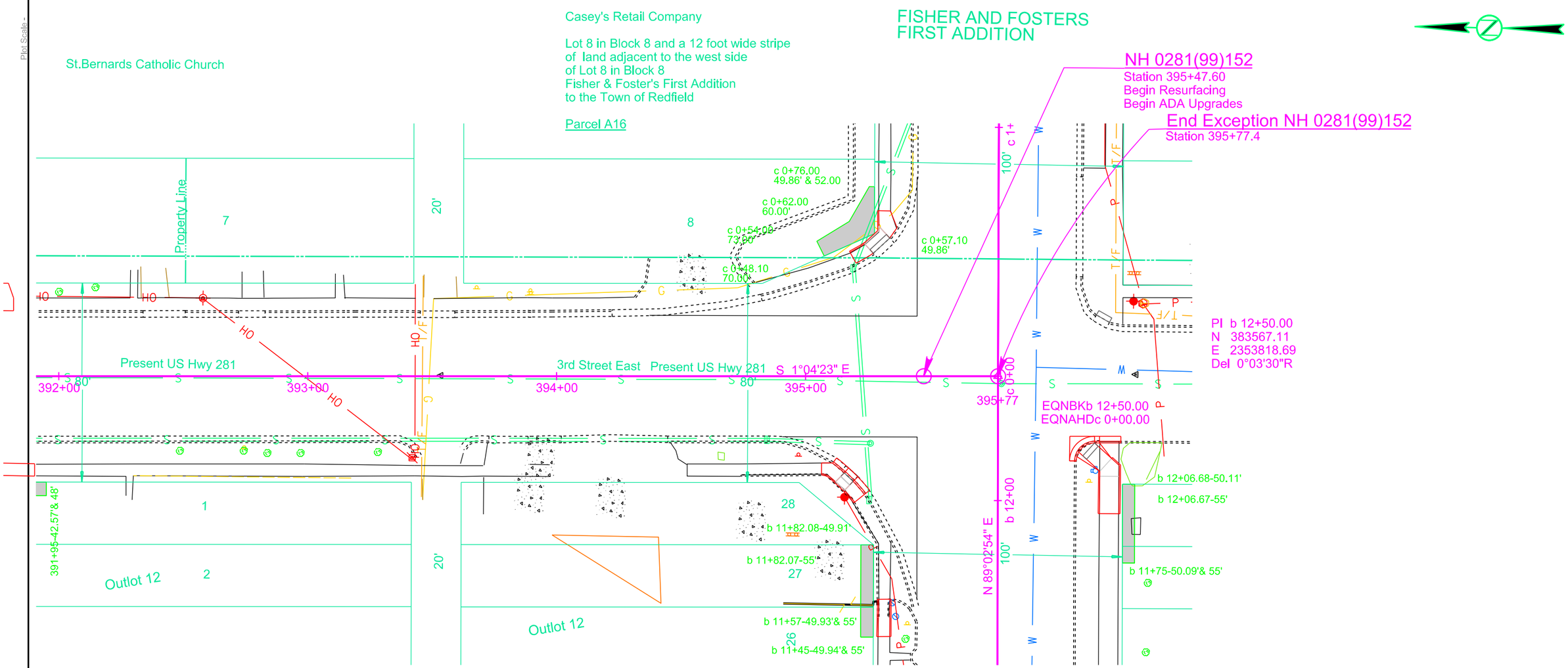
Plot Scale - 1:40

Plotted From - tpp17192

File - U:\rdi\prj\spnk0231\c35.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B29	B65

Plotting Date: 07/02/2015 Revised 11-7 - 2014 (BT)



Andrew H. Rindelaub & Kettie A. Rindelaub

WESTERN TOWNLOT
COMPANY'S SUBDIVISION

Dallas Schultz & Amanda Schultz

Lot 26 in Outlot 12 of
Western Town Lot Company's Subdivision of
Outlots 10, 11, 13 and part of
Outlot 12 of Albert Keep's First Addition
to the Town of Redfield

Parcel A12

Daniel E. Appel & Vickie R. Appel

Lot 27 in Outlot 12 of
Western Town Lot Company's Subdivision of
Outlots 10, 11, 13 and part of Outlot 12 in
Albert Keep's First Addition
to the Town of Redfield

Parcel A13

Parcel A12
b 11+45.00 to b 11+57.00 L
Temporary easement for
Sidewalk containing
61 sq ft, more or less

Parcel A13
b 11+57.00 to b 11+82.08 L
Temporary easement for
Retaining Wall containing
127 sq ft, more or less

Parcel A16
c 0+48.10 to c 0+76.00 L
Temporary Easement for
Sidewalk containing
256 sq ft. more or less

Plot Scale - 1:40
Plotted From - tpp17192
File - U:\trdp\jspnk023\T392.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B30	B65

Plotting Date: 07/14/2015 Revised 7-14 - 2015 (BT)

REDFIELD

Stephanie Wilhelm

Lot 15 in Block 3 of
Fisher & Foster's First Addition
to the Town of Redfield

Parcel A24

St. Bernard's Catholic Church

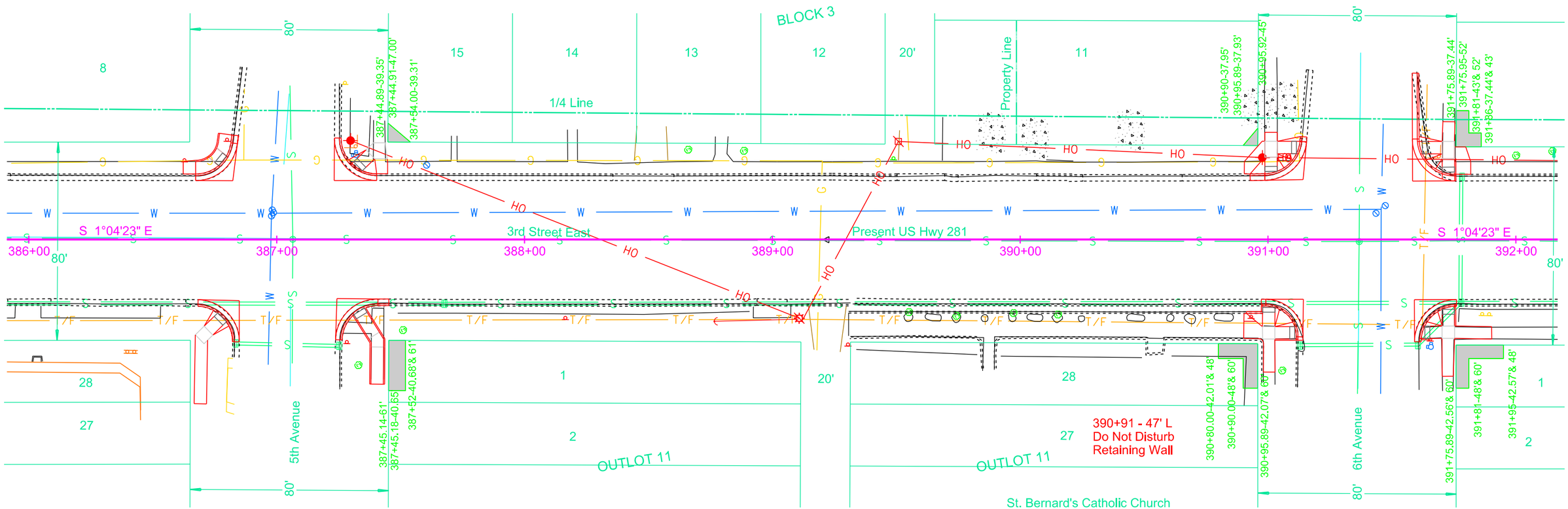
Lot 11 except the
North 33 Feet thereof in Block 3 of
Fisher & Foster's First Addition
to the Town of Redfield

Parcel A25

St. Bernards Catholic Church

North 75 feet of Lot 7 in Block 8
of Fisher & Foster's First Addition
to the Town of Redfield

Parcel A26



Jacki Bryson a/k/a Jaclyn K. Marlette

Lot 1 in Outlot 11 of
Western Town Lot Company's Subdivision
of Outlots 10, 11, 13 and part of Outlot 12 in
Albert Keep's First Addition
to the Town of Redfield

Parcel A27

WESTERN TOWN LOT
COMPANY'S SUBDIVISION

St. Bernard's Catholic Church

Lot 28 in Outlot 11 of
Western Town Lot Company's Subdivision
of Outlots 10, 11, 13 and part of Outlot 12 in
Albert Keep's First Addition
to the Town of Redfield

Parcel A28

Andrew H. Rindelaub & Kettie A. Rindelaub

Lot 1 in Outlot 12 of
Western Town Lot Company's Subdivision
of Outlots 10, 11, 13 and part of Outlot 12 in
Albert Keep's First Addition
to the Town of Redfield

Parcel A29

Parcel A24
387+44.89 to 387+54.00 L
Temporary easement for
Sidewalk containing
35 sq ft, more or less

Parcel A25
390+90 to 390+95.92 L
Temporary easement for
Sidewalk containing
21 sq ft, more or less

Parcel A27
387+45.14 to 387+52.00 R
Temporary easement for
Sidewalk containing
139 sq ft, more or less

Parcel A28
390+80.00 to 390+95.89 R
Temporary easement for
Sidewalk containing
165 sq ft, more or less

Parcel A26
391+75.89 to 391+86.00 L
Temporary easement for
Sidewalk containing
102 sq ft, more or less

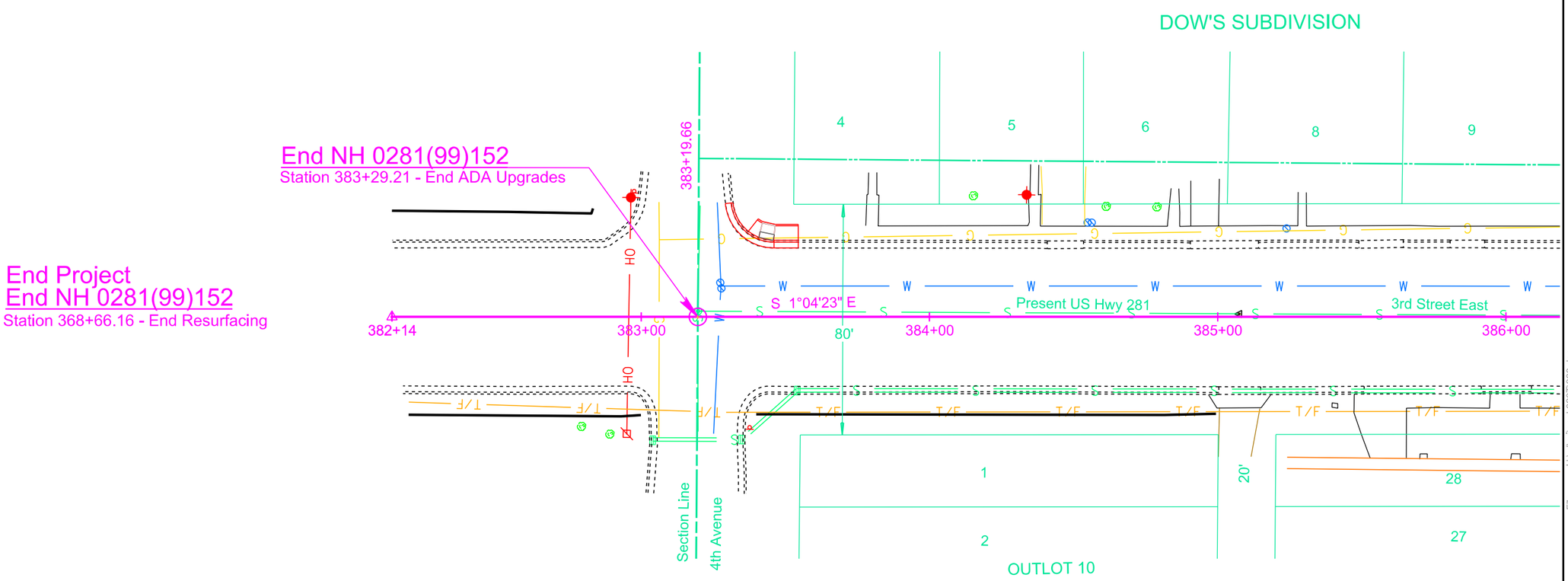
Parcel A29
391+75.89 to 391+95.00 R
Temporary easement for
Sidewalk containing
165 sq ft, more or less

Plot Scale - 1:40
Plotted From - tnpr17192
File - U:\rdprj\spnk0231\386.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B31	B65

Plotting Date: 07/07/2015

REDFIELD



Plot Scale - 1:40

Plotted From - tmpr13418

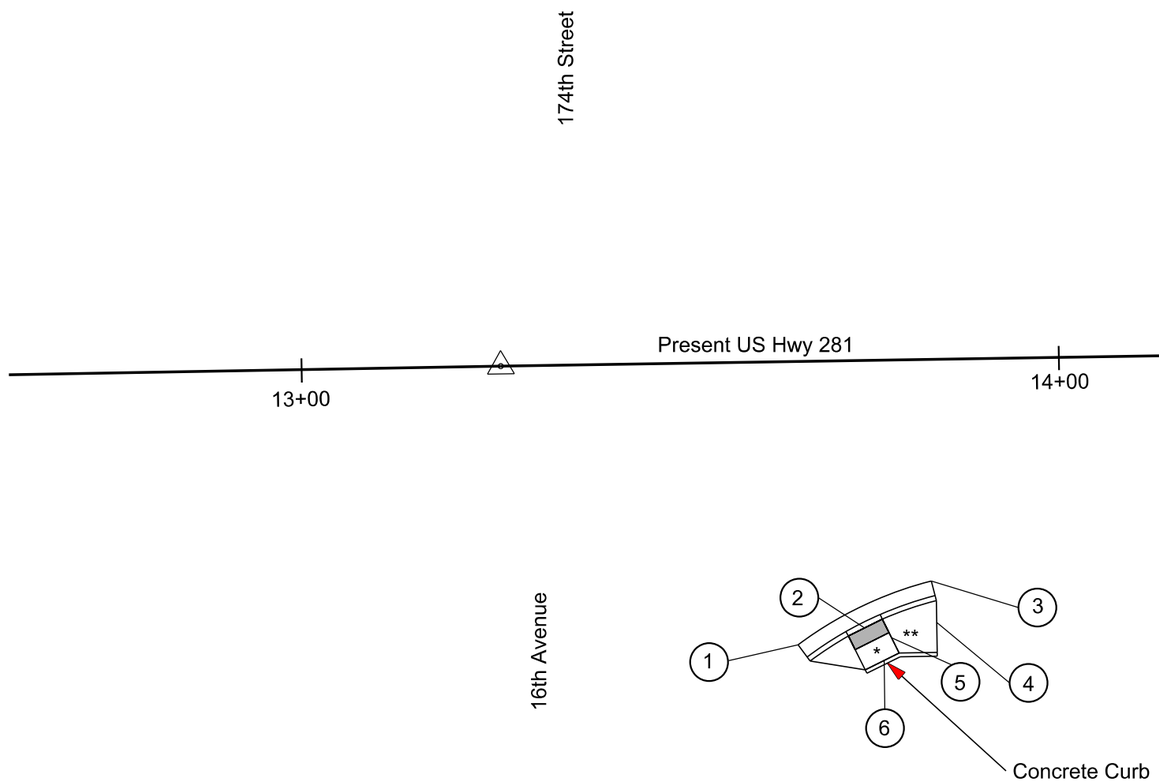
File - U:\rdep\spnk0231\380.dgn

CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B32	B65

Plotting Date: 07/07/2015

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.



1 13+64.97 - 37.41' R
Begin 50' Radius C & G
TC Elev. (Match Existing)

2 13+73.89 - 35.26' R
Center of Detectable Warning
& Type 3 Curb Ramp

3 13+82.70 - 29.25' R
End 50' Radius C & G
TC Elev. (Match Existing)

4 13+83.32 - 35.26' R
End Ramp Slope

5 13+77.22 - 36.44' R
Begin Ramp Slope

6 13+76.05 - 39.77' R
Back of Turning Space

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B33	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

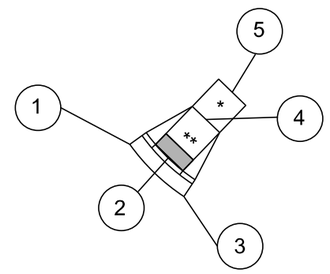
1 22+36.77 - 39.71' L
Begin 27.5' Radius C & G
TC Elev. (Match Existing)

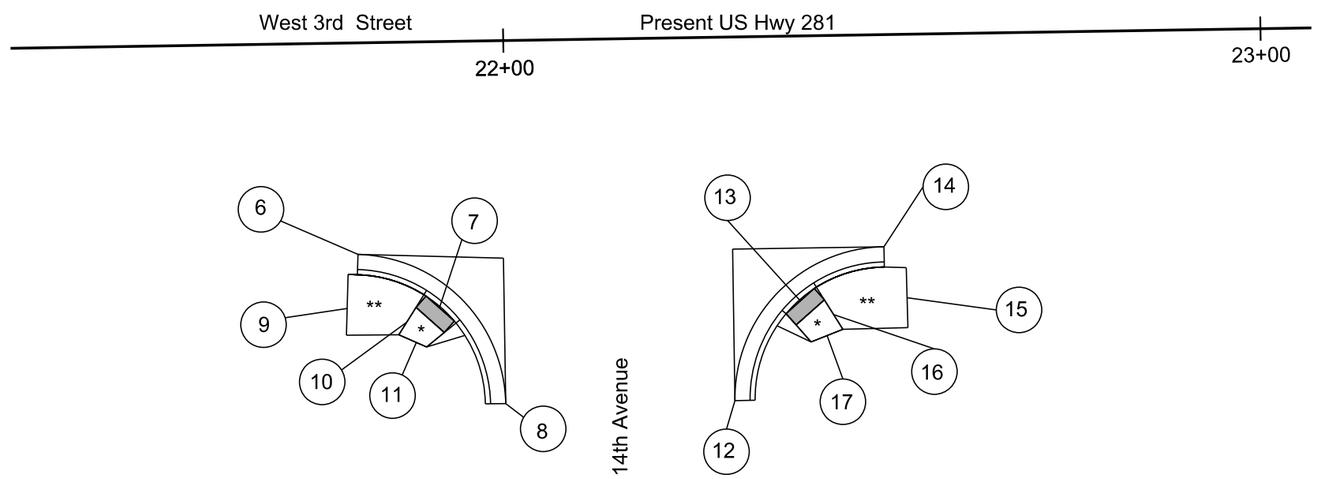
2 22+41.94 - 37.88' L
Center of Detectable Warning
& Type 1 Curb Ramp

3 22+43.81 - 32.72' L
End 27.5' Radius C & G
TC Elev. (Match Existing)

4 22+46.87 - 42.85' L
End Ramp Slope

5 22+50.40 - 46.39' L
Back of Turning Space





6 21+80.39 - 27.93' R
Begin 20' Radius Fillet
TC Elev. (Match Existing)

7 21+91.14 - 35.24' R
Center of Detectable Warning
& Type 3M Curb Ramp

8 21+99.58 - 47.91' R
End 20' Radius Fillet
TC Elev. (Match Existing)

9 21+78.88 - 34.54' R
Begin Ramp Slope

10 21+87.32 - 36.00' R
End Ramp Slope

11 21+87.43 - 39.46' R
Back of Turning Space

12 22+29.86 - 48.00' R
Begin 20' Radius Fillet
TC Elev. (Match Existing)

13 22+38.67 - 35.00' R
Center of Detectable Warning
& Type 3M Curb Ramp

14 22+49.86 - 28.00' R
End 20' Radius Fillet
TC Elev. (Match Existing)

15 22+52.80 - 34.77' R
Begin Ramp Slope

16 22+42.55 - 36.01' R
End Ramp Slope

17 22+42.15 - 39.61' R
Back of Turning Space

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rdfprj\spnk023T\022cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B34	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

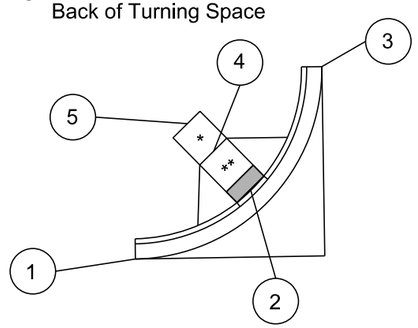
1 26+04.41 - 27.87' L
Begin 25' Radius Fillet
TC Elev. (Match Existing)

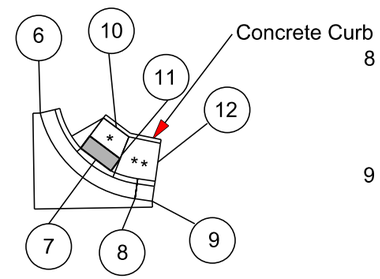
2 26+19.73 - 36.82' L
Center of Detectable Warning
& Type 1 Curb Ramp

3 26+29.41 - 52.87' L
End 25' Radius Fillet
TC Elev. (Match Existing)

4 26+14.90 - 41.88' L
End Ramp Slope

5 26+11.45 - 45.50' L
Back of Turning Space





6 26+59.65 - 40.70' L
Begin 15' Radius Fillet
TC Elev. (Match Existing)

7 26+66.90 - 34.45' L
Center of Detectable Warning
& Type 3 Curb Ramp

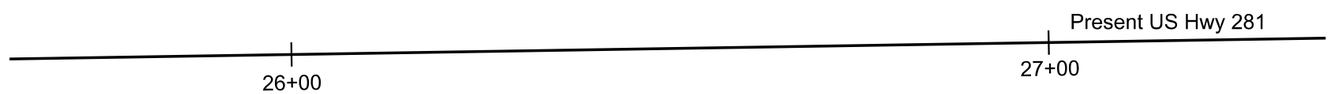
8 26+71.97 - 29.20' L
End 15' Radius Fillet
Begin Str C & G
TC Elev. (Set in Field)

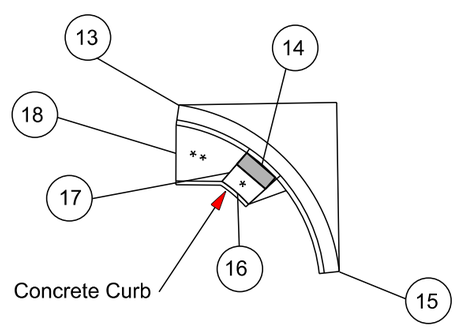
9 26+74.26 - 28.84' L
End Str C & G
TC Elev. (Match Existing)

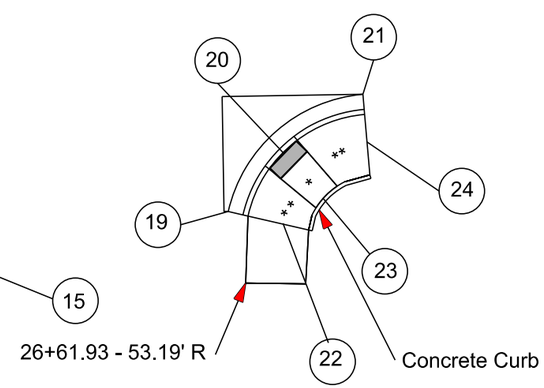
10 26+69.66 - 38.65' L
Back of Turning Space

11 26+70.33 - 35.05' L
Begin Ramp Slope

12 26+75.06 - 33.98' L
End Ramp Slope







13 26+06.89 - 28.82' R
Begin 25' Radius Fillet
TC Elev. (Match Existing)

14 26+17.65 - 36.98' R
Center of Detectable Warning
& Type 3 Curb Ramp

15 26+27.71 - 51.12' R
End 25' Radius Fillet
TC Elev. (Match Existing)

16 26+14.23 - 40.42' R
Back of Turning Space

17 26+14.07 - 37.14' R
Begin Ramp Slope

18 26+06.39 - 35.15' R
End Ramp Slope

19 26+59.77 - 43.73' R
Begin 20' Radius Fillet
TC Elev. (Match Existing)

20 26+67.12 - 36.31' R
Center of Detectable Warning
& Type 3 Curb Ramp

21 26+77.80 - 28.53' R
End 20' Radius Fillet
TC Elev. (Match Existing)

22 26+66.35 - 45.34' R
Begin Ramp Slope

23 26+72.68 - 41.71' R
Back of Turning Space

24 26+78.26 - 35.19' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - tnpr13418
File - U:\rdtp\jspnk023T\026cr.dgn

CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B35	B65

Plotting Date: 07/07/2015

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

1 30+40.71 - 28.16' L
Begin 17.5' Radius Fillet
TC Elev. (Match Existing)

2 30+52.56 - 35.20' L
Center of Detectable Warning
& Type 3 Curb Ramp

3 30+59.84 - 44.89' L
End 17.5' Radius Fillet
TC Elev. (Match Existing)

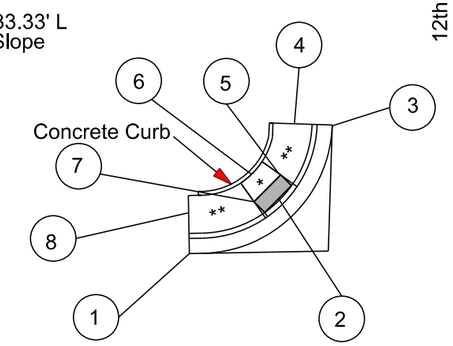
4 30+54.60 - 45.12' L
Begin Ramp Slope

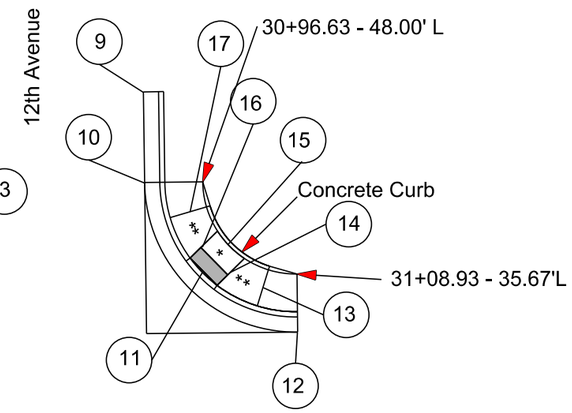
5 30+52.52 - 38.69' L
End Ramp Slope

6 30+49.22 - 38.63' L
Back of Turning Space

7 30+49.07 - 35.33' L
Begin Ramp Slope

8 30+40.71 - 33.33' L
End Ramp Slope





9 30+88.97 - 59.96' L
Begin Str C & G
TC Elev. (Match Existing)

10 30+88.96 - 48.00' L
End Str C & G
Begin 20' Radius Fillet
TC Elev. (Set in Field)

11 30+96.60 - 36.12' L
Center of Detectable Warning
& Type 3 Curb Ramp

12 30+08.91 - 28.00' L
End 20' Radius Fillet
TC Elev. (Match Existing)

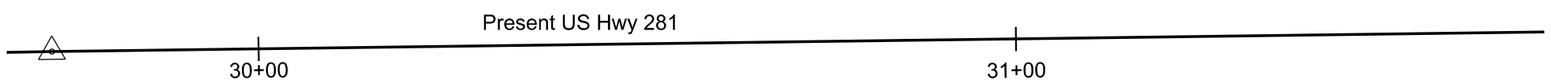
13 31+04.45 - 33.90' L
End Ramp Slope

14 31+00.15 - 36.05' L
Begin Ramp Slope

15 31+00.02 - 39.49' L
Back of Turning Space

16 30+96.68 - 39.70' L
Begin Ramp Slope

17 30+94.68 - 44.02' L
End Ramp Slope



18 30+42.55 - 28.01' R
Begin 17.5' Radius Fillet
TC Elev. (Match Existing)

19 30+53.65 - 36.01' R
Center of Detectable Warning
& Type 3 Curb Ramp

20 30+60.04 - 45.34' R
End 17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

21 30+60.08 - 49.47' R
End Str C & G
TC Elev.(Match Existing)

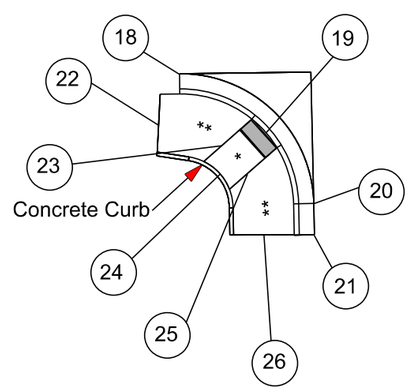
22 30+39.71 - 34.49' R
Begin Ramp Slope

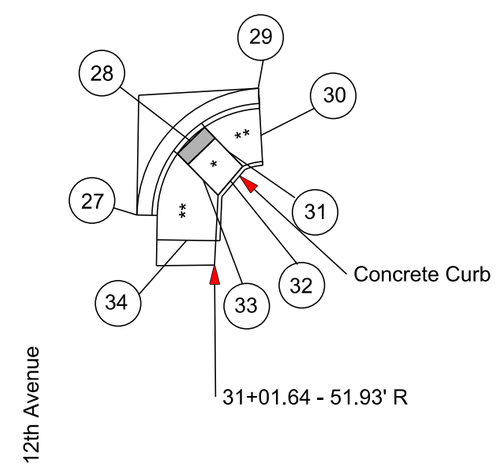
23 30+48.81 - 36.86' R
End Ramp Slope

24 30+47.61 - 41.16' R
Back of Turning Space

25 30+52.11 - 40.62' R
Begin Ramp Slope

26 30+53.40 - 49.42' R
End Ramp Slope





27 30+91.49 - 45.19' R
Begin 17' Radius Fillet
TC Elev.(Match Existing)

28 30+98.74 - 35.46' R
Center of Detectable Warning
& Type 3 Curb Ramp

29 31+07.74 - 28.68' R
End 17' Radius Fillet
TC Elev.(Match Existing)

30 31+08.01 - 34.84' R
End Ramp Slope

31 31+03.06 - 36.33' R
Begin Ramp Slope

32 31+03.89 - 40.83' R
Back of Turning Space

33 30+99.59- 39.94' R
Begin Ramp Slope

34 30+97.99 - 48.60' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - tnpr13418
File - U:\rdprj\spnk0231\030cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B36	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

1 34+64.23 - 27.83' L
Begin 25' Radius Fillet
TC Elev. (Match Existing)

2 34+77.72 - 35.16' L
Center of Detectable Warning
& Type 3 Curb Ramp

3 34+89.26 - 52.38' L
End 25' Radius Fillet
TC Elev. (Match Existing)

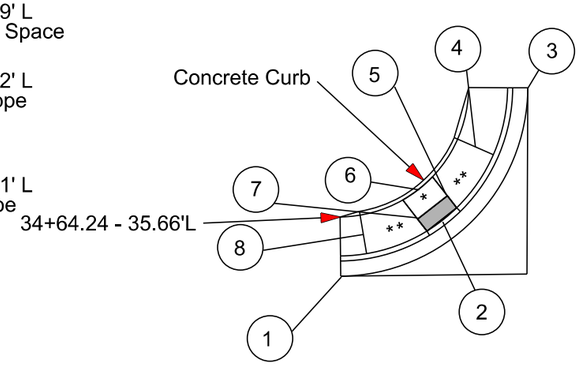
4 34+82.25 - 44.67' L
End Ramp Slope

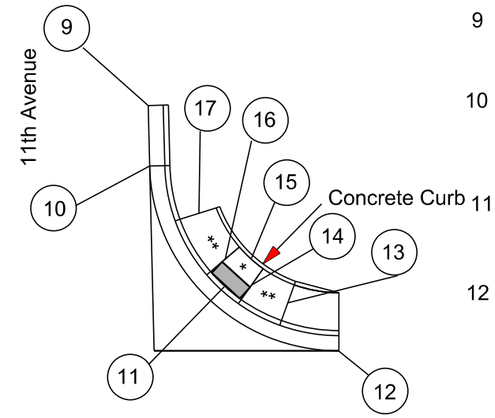
5 34+78.10 - 38.74' L
Begin Ramp Slope

6 34+74.66 - 39.19' L
Back of Turning Space

7 34+74.12 - 35.72' L
Begin Ramp Slope

8 34+67.29 - 33.31' L
End Ramp Slope





9 35+19.12 - 61.01' L
Begin Str C & G
TC Elev. (Match Existing)

10 35+19.21 - 53.01' L
End Str C & G
Begin 25' Radius Fillet
TC Elev. (Match Existing)

11 35+29.06 - 37.08' L
Center of Detectable Warning
& Type 3 Curb Ramp

12 35+43.88 - 28.30' L
End 25' Radius Fillet
TC Elev. (Match Existing)

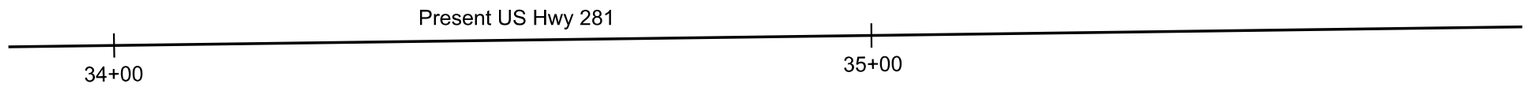
13 35+37.24 - 34.73' L
End Ramp Slope

14 35+32.56 - 37.25' L
Begin Ramp Slope

15 35+32.39 - 40.59' L
Back of Turning Space

16 35+29.00 - 40.58' L
Begin Ramp Slope

17 35+25.53 - 46.65' L
End Ramp Slope



18 34+70.86 - 28.27' R
Begin 17.5' Radius Fillet
TC Elev. (Match Existing)

19 34+80.88 - 35.16' R
Center of Detectable Warning
& Type 3 Curb Ramp

20 34+88.32 - 45.38' R
End 17.5' Radius Fillet
Begin Str C & G
TC Elev. (Set in Field)

21 34+88.36 - 47.38' R
End Str C & G
TC Elev. (Match Existing)

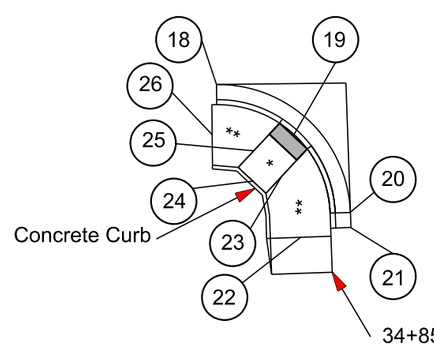
22 34+81.71 - 48.59' R
End Ramp Slope

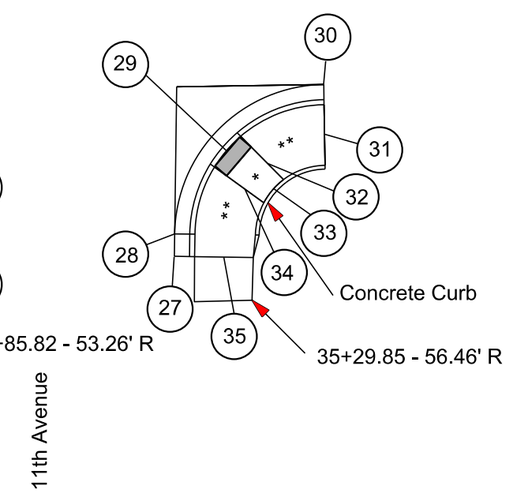
23 34+79.97 - 39.82' R
Begin Ramp Slope

24 34+75.39 - 40.99' R
Back of Turning Space

25 34+76.35 - 36.37' R
Begin Ramp Slope

26 34+70.22 - 34.92' R
End Ramp Slope





27 35+19.67 - 50.54' R
Begin Str C & G
TC Elev. (Match Existing)

28 35+19.75 - 47.58' R
End Str C & G
Begin 20' Radius Fillet
TC Elev. (Set in Field)

29 35+26.85 - 36.80' R
Center of Detectable Warning
& Type 3 Curb Ramp

30 35+39.69 - 28.11' R
End 20' Radius Fillet
TC Elev. (Match Existing)

31 35+39.71 - 34.78' R
End Ramp Slope

32 35+31.42 - 37.70' R
Begin Ramp Slope

33 35+32.96 - 41.92' R
Back of Turning Space

34 35+28.34 - 41.22' R
Begin Ramp Slope

35 35+26.20 - 50.73' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - tnpr13418
File - U:\rdtp\jspnk023T\034cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B37	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

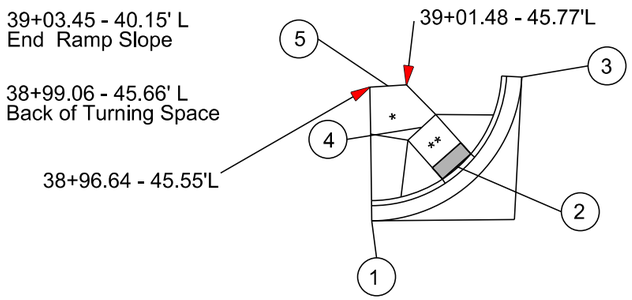
1 38+98.68 - 27.88' L
Begin 20' Radius Fillet
TC Elev. (Match Existing)

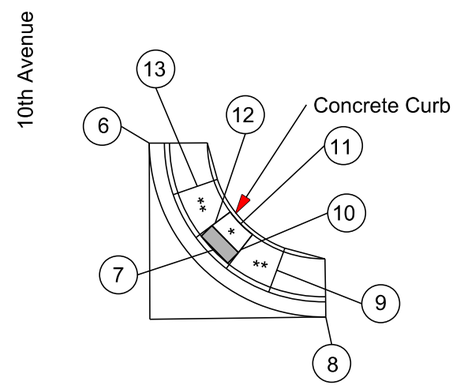
2 39+08.00 - 34.92' L
Center of Detectable Warning
& Type 1 Curb Ramp

3 39+16.72 - 46.62' L
End 20' Radius Fillet
TC Elev. (Match Existing)

4 39+03.45 - 40.15' L
End Ramp Slope

5 38+99.06 - 45.66' L
Back of Turning Space





6 39+51.98 - 51.28' L
Begin 23' Radius Fillet
TC Elev. (Match Existing)

7 39+60.40 - 37.11' L
Center of Detectable Warning
& Type 3 Curb Ramp

8 39+74.98 - 28.05' L
End 23' Radius Fillet
TC Elev. (Match Existing)

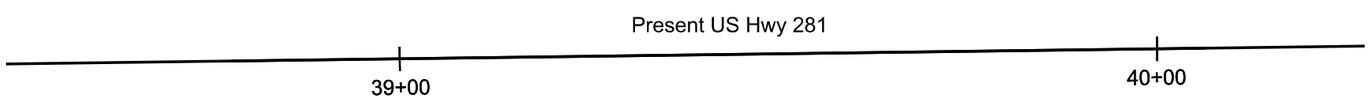
9 39+68.66 - 34.49' L
End Ramp Slope

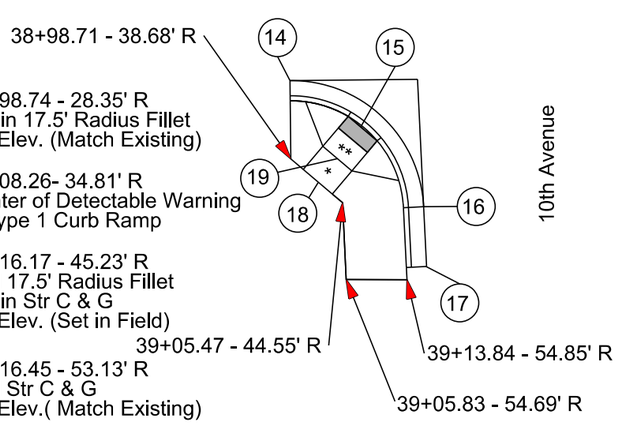
10 39+63.89 - 37.08' L
Begin Ramp Slope

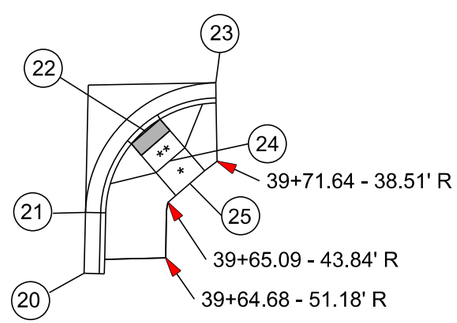
11 39+63.90 - 40.45' L
Back of Turning Space

12 39+60.53 - 40.60' L
Begin Ramp Slope

13 39+58.06 - 45.45' L
End Ramp Slope







14 38+98.74 - 28.35' R
Begin 17.5' Radius Fillet
TC Elev. (Match Existing)

15 39+08.26- 34.81' R
Center of Detectable Warning
& Type 1 Curb Ramp

16 39+16.17 - 45.23' R
End 17.5' Radius Fillet
Begin Str C & G
TC Elev. (Set in Field)

17 39+16.45 - 53.13' R
End Str C & G
TC Elev.(Match Existing)

18 39+02.24 - 41.75' R
Back of Turning Space

19 39+04.86 - 38.73' R
End Ramp Slope

20 39+53.88 - 53.88' R
Begin Str C & G
TC Elev.(Match Existing)

21 39+54.18 - 45.03' R
End Str. C & G
Begin 17.5' Radius Fillet
TC Elev.(Set in Field)

22 39+62.27 - 34.45' R
Center of Detectable Warning
& Type 1 Curb Ramp

23 39+71.60 - 28.15' R
End 17.5' Radius Fillet
TC Elev. (Match Existing)

24 39+65.49 - 38.28' R
End Ramp Slope

25 39+68.05 - 41.35' R
Back of Turning Space

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rdprj\spnk0237\039cr.dgn

CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B38	B65

Plotting Date: 07/07/2015

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

1 43+24.73 - 28.46' L
Begin 25' Radius Fillet
TC Elev. (Match Existing)

2 43+38.96 - 36.32' L
Center of Detectable Warning
& Type 3 Curb Ramp

3 43+49.92 - 51.26' L
End 25' Radius Fillet
TC Elev. (Match Existing)

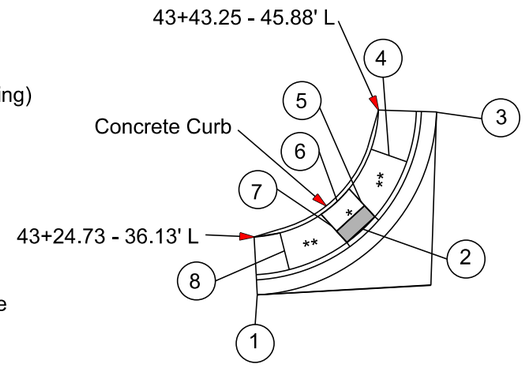
4 43+43.25 - 45.88' L
End Ramp Slope

5 43+39.30 - 36.86' L
Begin Ramp Slope

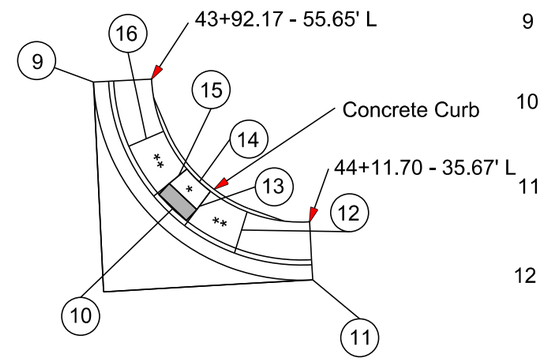
6 43+35.85 - 40.08' L
Back of Turning Space

7 43+35.40 - 36.69' L
Begin Ramp Slope

8 43+43.25 - 45.88' L
End Ramp Slope



9th Avenue



9 43+84.62 - 55.74' L
Begin 27.5' Radius Fillet
TC Elev. (Match Existing)

10 43+93.93 - 38.58' L
Center of Detectable Warning
& Type 3 Curb Ramp

11 44+11.70 - 28.00' L
End 27.5' Radius Fillet
TC Elev. (Match Existing)

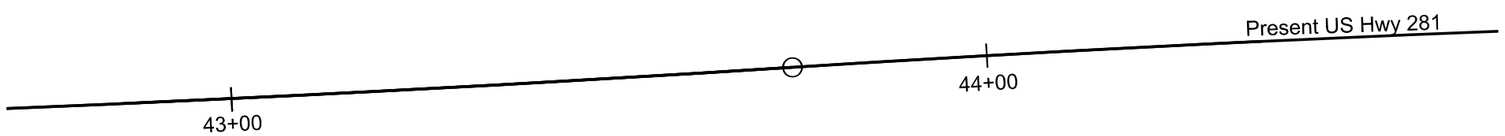
12 44+02.76 - 35.09' L
End Ramp Slope

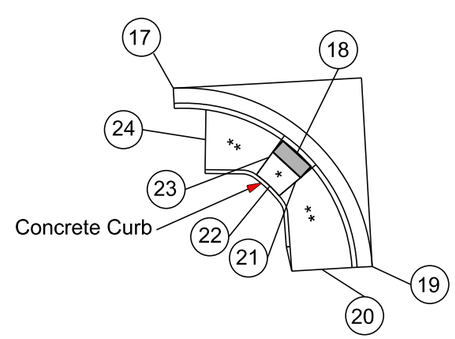
13 43+97.39 - 38.51' L
Begin Ramp Slope

14 43+97.46 - 41.90' L
Back of Turning Space

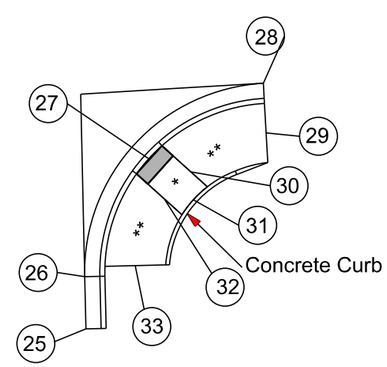
15 43+94.10 - 42.07' L
Begin Ramp Slope

16 43+91.02 - 47.83' L
End Ramp Slope





9th Avenue



17 43+19.28 - 28.00' R
Begin 25' Radius Fillet
TC Elev. (Match Existing)

18 43+35.00 - 37.48' R
Center of Detectable Warning
& Type 3 Curb Ramp

19 43+44.00 - 52.93' R
End 25' Radius Fillet
TC Elev. (Match Existing)

20 43+37.42 - 52.93' R
End Ramp Slope

21 43+34.62 - 41.21' R
Begin Ramp Slope

22 43+31.05 - 41.38' R
Back of Turning Space

23 43+31.32 - 37.77' R
Begin Ramp Slope

24 43+23.14 - 35.01' R
End Ramp Slope

25 43+74.47 - 58.96' R
Begin Str C & G
TC Elev. (Match Existing)

26 43+74.76 - 52.06' R
End Str C & G
Begin 25' Radius Fillet
TC Elev. (Set in Field)

27 43+84.34 - 37.19' R
Center of Detectable Warning
& Type 3 Curb Ramp

28 44+00.10 - 28.00' R
End 25' Radius Fillet
TC Elev. (Match Existing)

29 44+00.10 - 34.57' R
End Ramp Slope

30 43+89.00 - 38.32' R
Begin Ramp Slope

31 43+89.93 - 42.73' R
Back of Turning Space

32 43+85.39 - 41.83' R
Begin Ramp Slope

33 43+81.62 - 51.02' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rdprj\spnk0231\0043cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B39	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

1 47+56.46 - 27.94' L
Begin 75' Radius C & G
TC Elev. (Match Existing)

2 47+64.61 - 32.09' L
Center of Detectable Warning
& Type 3 Curb Ramp

3 47+73.24 - 32.06' L
End 75' Radius C & G
TC Elev. (Match Existing)

4 47+71.43 - 37.10' L
End Ramp Slope

5 47+66.30 - 35.17' L
Begin Ramp Slope

6 47+63.49 - 37.00' L
Back of Turning Space

7 47+61.75 - 34.00' L
Begin Ramp Slope

8 47+56.00 - 33.14' L
End Ramp Slope

9 47+91.12 - 43.40' L
Begin 75' Radius C & G
TC Elev. (Match Existing)

10 47+95.74 - 51.81' L
Center of Detectable Warning
& Type 3 Curb Ramp

11 47+06.86 - 64.26' L
End 75' Radius C & G
TC Elev. (Match Existing)

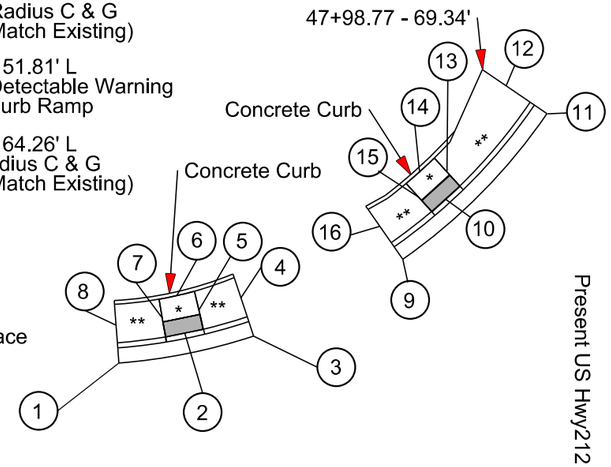
12 48+01.77 - 67.43' L
End Ramp Slope

13 47+94.95 - 56.02' L
Begin Ramp Slope

14 47+92.43 - 55.19' L
Back of Turning Space

15 47+91.83 - 52.38' L
Begin Ramp Slope

16 47+88.05 - 47.60' L
End Ramp Slope



17 48+65.63 - 64.14' L
Begin 80' Radius C & G
TC Elev. (Match Existing)

18 48+77.02 - 52.07' L
Center of Detectable Warning
& Type 3 Curb Ramp

19 48+81.67 - 43.85' L
End 80' Radius C & G
TC Elev. (Match Existing)

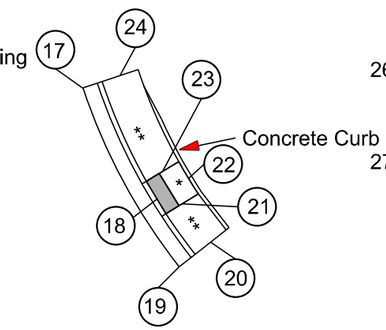
20 48+84.70 - 47.99' L
End Ramp Slope

21 48+80.26 - 52.03' L
Begin Ramp Slope

22 48+80.26 - 55.51' L
Back of Turning Space

23 48+77.06 - 55.61' L
Begin Ramp Slope

24 48+69.63 - 66.75' L
End Ramp Slope



25 49+26.00 - 27.84' L
Begin 568' Radius C & G
TC Elev. (Match Existing)

26 49+34.07 - 30.52' L
Center of Detectable Warning
& Type 3 Curb Ramp

27 49+42.17 - 27.85' L
End 568' Radius C & G
TC Elev. (Match Existing)

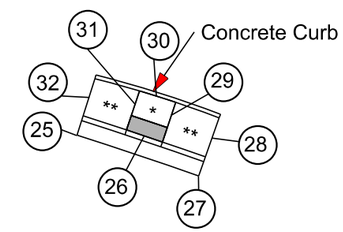
28 49+42.17 - 33.25' L
End Ramp Slope

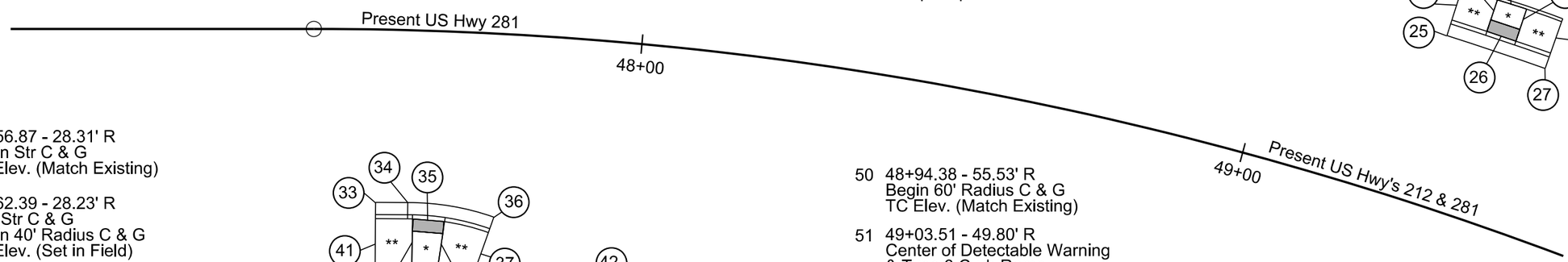
29 49+36.45 - 33.26' L
Begin Ramp Slope

30 49+34.02 - 36.01' L
Back of Turning Space

31 49+31.73 - 33.34' L
Begin Ramp Slope

32 49+25.99 - 33.09' L
End Ramp Slope





33 47+56.87 - 28.31' R
Begin Str C & G
TC Elev. (Match Existing)

34 47+62.39 - 28.23' R
End Str C & G
Begin 40' Radius C & G
TC Elev. (Set in Field)

35 47+66.08 - 31.00' R
Center of Detectable Warning
& Type 3 Curb Ramp

36 47+77.30 - 30.04' R
End 40' Radius C & G
TC Elev. (Match Existing)

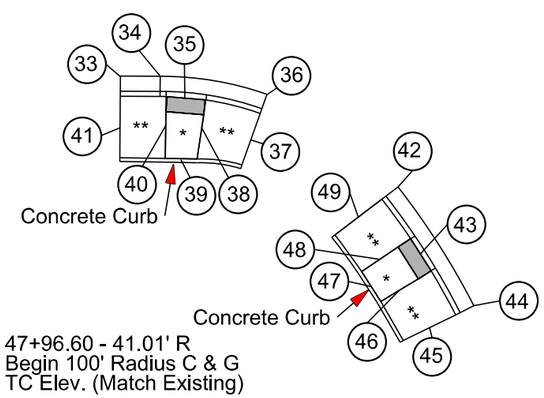
37 47+75.41 - 36.05' R
End Ramp Slope

38 47+68.40 - 35.05' R
Begin Ramp Slope

39 47+65.67 - 39.01' R
Back of Turning Space

40 47+63.35 - 34.96' R
Begin Ramp Slope

41 47+56.94 - 35.03' R
End Ramp Slope



42 47+96.60 - 41.01' R
Begin 100' Radius C & G
TC Elev. (Match Existing)

43 48+00.76 - 49.66' R
Center of Detectable Warning
& Type 3 Curb Ramp

44 48+09.13 - 55.66' R
End 100' Radius C & G
TC Elev. (Match Existing)

45 48+03.02 - 59.14' R
End Ramp Slope

46 47+99.04 - 53.98' R
Begin Ramp Slope

47 47+93.98 - 54.42' R
Back of Turning Space

48 47+95.74 - 50.11' R
Begin Ramp Slope

49 47+91.33 - 45.41' R
End Ramp Slope

50 48+94.38 - 55.53' R
Begin 60' Radius C & G
TC Elev. (Match Existing)

51 49+03.51 - 49.80' R
Center of Detectable Warning
& Type 3 Curb Ramp

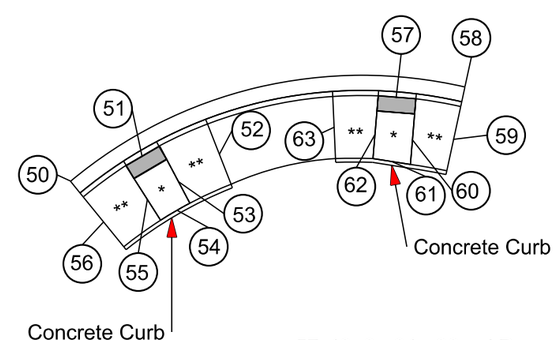
52 49+14.08 - 46.82' R
End Ramp Slope

53 49+08.71 - 51.04' R
Begin Ramp Slope

54 49+10.26 - 55.71' R
Back of Turning Space

55 49+05.05 - 54.51' R
Begin Ramp Slope

56 49+00.58 - 59.59' R
End Ramp Slope



57 49+35.64 - 32.55' R
Center of Detectable Warning
& Type 3 Curb Ramp

58 49+44.10 - 28.32' R
End 60' Radius C & G
TC Elev. (Match Existing)

59 49+45.05 - 35.24' R
End Ramp Slope

60 49+39.34 - 36.15' R
Begin Ramp Slope

61 49+37.83 - 40.80' R
Back of Turning Space

62 49+34.11 - 37.18' R
Begin Ramp Slope

63 49+28.59 - 38.95' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rdpn\spnk0231T048cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B40	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

1 53+55.73 - 65.59' L
Begin 78' Radius C & G
TC Elev. (Match Existing)

2 53+49.73 - 59.60' L
Center of Detectable Warning
& Type 3 Curb Ramp

3 53+46.95 - 50.43' L
End 78' Radius C & G
TC Elev. (Match Existing)

4 53+43.17 - 53.69' L
End Ramp Slope

5 53+46.54 - 58.80' L
Begin Ramp Slope

6 53+45.74 - 62.23' L
Back of Turning Space

7 53+48.89 - 63.07' L
Begin Ramp Slope

8 53+51.42 - 68.72' L
End Ramp Slope

9 53+39.33 - 41.96' L
Begin 62' Radius C & G
TC Elev. (Match Existing)

10 53+30.61 - 38.74' L
Center of Detectable Warning
& Type 3 Curb Ramp

11 53+23.75 - 32.30' L
End 62' Radius C & G
TC Elev. (Match Existing)

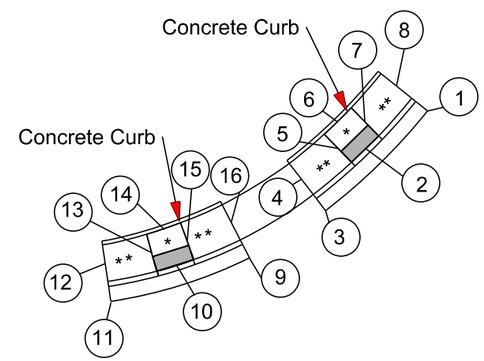
12 53+22.07 - 37.09' L
End Ramp Slope

13 53+27.42 - 39.70' L
Begin Ramp Slope

14 53+28.24 - 43.13' L
Back of Turning Space

15 53+31.39 - 42.22' L
Begin Ramp Slope

16 53+36.14 - 45.96' L
End Ramp Slope



Pope Lane

Present US Hwys 281 & 212

53+00

54+00

17 53+27.63- 28.00' R
Begin 552' Radius C & G
TC Elev. (Match Existing)

18 53+36.61 - 30.68' R
Center of Detectable Warning
& Type 3 Curb Ramp

19 53+45.50 - 28.00' R
End 552' Radius C & G
TC Elev. (Match Existing)

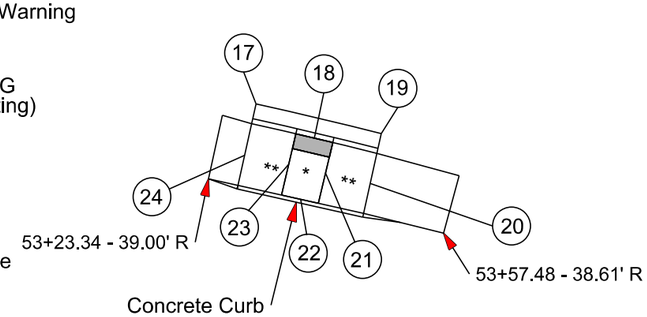
20 53+45.72 - 34.73' R
End Ramp Slope

21 53+39.27 - 34.80' R
Begin Ramp Slope

22 53+36.61- 38.96' R
Back of Turning Space

23 53+33.95 - 34.83' R
Begin Ramp Slope

24 53+27.63 - 34.83' R
End Ramp Slope



Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rdprj\spnk0237\053cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B41	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B68, and all Sidewalk is 5' wide except as noted.

1 54+10.23 - 53.91' L
Begin 65' Radius C & G
TC Elev. (Match Existing)

2 54+15.02 - 51.39' L
Center of Detectable Warning
& Type 1 Curb Ramp

3 54+30.10 - 34.37' L
End 65' Radius C & G
TC Elev. (Match Existing)

4 54+22.32 - 46.41' L
End Ramp Slope

5 54+18.25 - 51.02' L
Begin Ramp Slope

6 54+18.54 - 54.50' L
Back of Turning Space

7 54+72.29 - 28.84' L
Begin 25' Radius C & G
TC Elev. (Match Existing)

8 54+78.63 - 35.23' L
Center of Detectable Warning
& Type 3 Curb Ramp

9 54+86.14 - 40.17' L
End 25' Radius C & G
TC Elev. (Match Existing)

10 54+75.90 - 39.12' L
Back of Turning Space

11 54+70.90 - 33.90' L
End Ramp Slope

11a 54+75.36 - 35.75' L
End Ramp Slope

12a 54+79.09 - 38.79' L
End Ramp Slope

12 54+81.97 - 42.76' L
End Ramp Slope

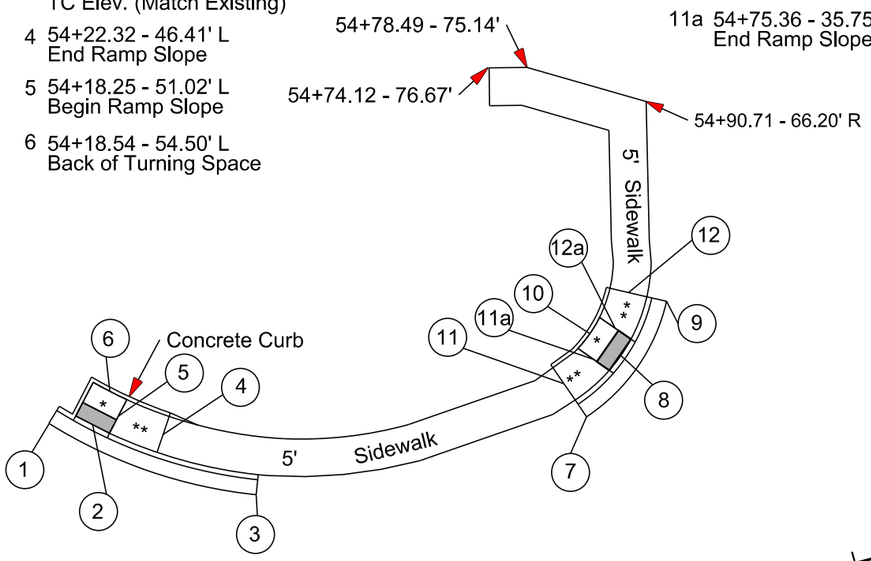
13 55+33.91 - 40.99' L
Begin 22.5' Radius C & G
TC Elev. (Match Existing)

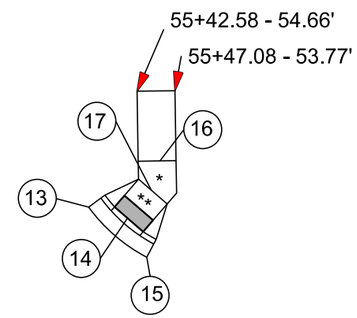
14 55+38.46 - 38.31' L
Center of Detectable Warning
& Type 1 Curb Ramp

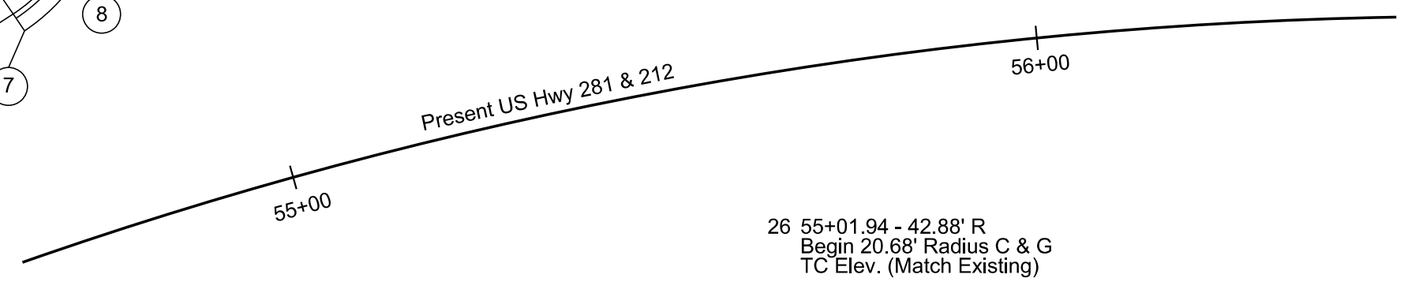
15 55+39.68 - 32.92' L
End 22.5' Radius C & G
TC Elev. (Match Existing)

16 55+43.31 - 45.10' L
Back of Turning Space

17 55+42.05 - 41.26' L
End Ramp Slope







18 54+45.17 - 28.97' R
Begin 24' Radius C & G
TC Elev. (Match Existing)

19 54+55.48 - 37.90' R
Center of Detectable Warning
& Type 3 Curb Ramp

20 54+64.40 - 48.19' R
End 24' Radius C & G
TC Elev. (Match Existing)

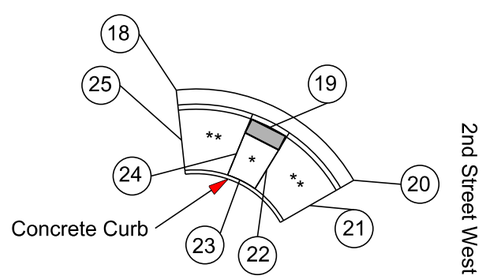
21 54+57.23 - 49.40' R
End Ramp Slope

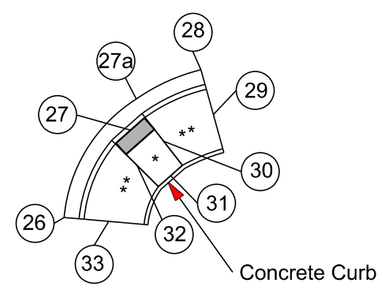
22 54+54.04 - 42.35' R
Begin Ramp Slope

23 54+49.28 - 43.24' R
Back of Turning Space

24 54+50.62 - 38.92' R
Begin Ramp Slope

25 54+43.37 - 35.42' R
End Ramp Slope





26 55+01.94 - 42.88' R
Begin 20.68' Radius C & G
TC Elev. (Match Existing)

27 55+14.11 - 34.01' R
Center of Detectable Warning
& Type 3 Curb Ramp

27a 55+16.00 - 30.16' R
End 20.68' Radius C & G
Begin 25.17' Radius C & G
TC Elev. (Set in Field)

28 55+25.70 - 28.41' R
End 25.17' Radius C & G
TC Elev. (Match Existing)

29 55+26.02 - 35.15' R
End Ramp Slope

30 55+18.33 - 36.47' R
Begin Ramp Slope

31 55+18.07 - 41.10' R
Back of Turning Space

32 55+13.83 - 38.66' R
Begin Ramp Slope

33 55+08.69 - 45.16' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rdprj\spnk0231T055cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B42	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.

1 a - 0+80.01 - 30.15' L
Begin Str. C & G
TC Elev. (Match Existing)

2 a - 0+75.51- 32.93' L
Center of Detectable Warning
& Type 1 Curb Ramp

3 a - 0+74.59 - 30.14' L
End Str. C & G
Begin 12.5' Radius Fillet
TC Elev. (Set in Field)

4 a - 0+62.06 - 42.67' L
End 12.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

5 a - 0+64.74- 46.49' L
Center of Detectable Warning
& Type 1 Curb Ramp

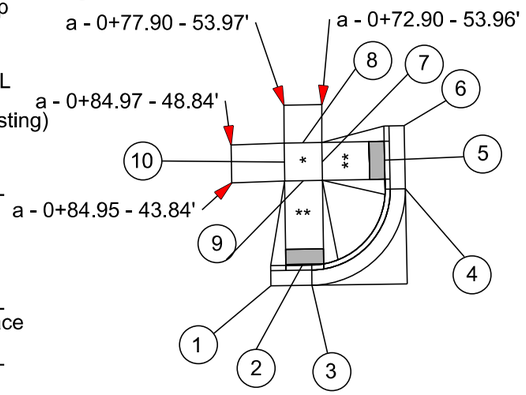
6 a - 0+62.09 - 50.99' L
End Str. C & G
TC Elev. (Match Existing)

7 a -0+72.99 - 46.46' L
End Ramp Slope

8 a -0+75.48 - 48.96' L
Back of Turning Space

9 a -0+75.48 - 43.96' L
End Ramp Slope

10 a -0+77.96 - 46.47' L
Back of Turning Space



11 a - 0+05.66 - 35.03' L
Begin Str C & G
TC Elev. (Match Existing)

12 a - 0+02.68 - 37.73' L
Center of Detectable Warning
& Type 1 Curb Ramp

13 a - 0+01.98 - 35.10' L
End Str C & G
TC Elev. (Match Existing)

14 a - 0+02.75 - 45.08' L
End Ramp Slope

17 a-0+81.58 - 29.63' R
Begin Str. C & G
TC Elev. (Match Existing)

18 a-0+77.08 - 32.29' R
Center of Detectable Warning
& Type 1 Curb Ramp

19 a-0+72.58 - 29.62' R
End Str.C & G
TC Elev. (Match Existing)

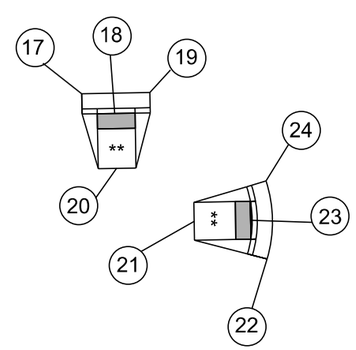
20 a-0+77.07 - 39.54' R
End Ramp Slope

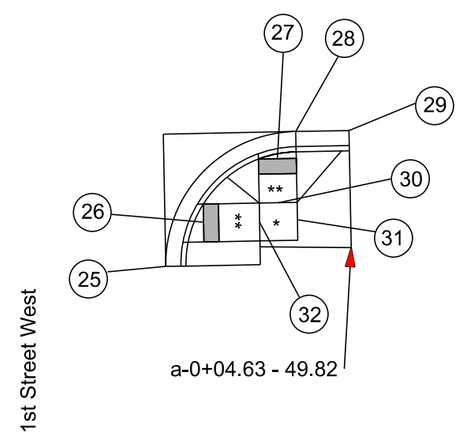
21 a-0+67.02 - 46.71' R
End of Slope

22 a-0+57.48 - 51.84' R
Begin 17.5' Radius C & G
TC Elev. (Match Existing)

23 a-0+59.57 - 46.69' R
Center of Detectable Warning
& Type 1 Curb Ramp

24 a-0+41.55 - 41.55' R
End 17.5' Radius Str. C & G
TC Elev. (Match Existing)





25 a-0+19.89 - 51.88' R
Begin 17.5' Radius Fillet
TC Elev. (Match Existing)

26 a-0+14.80 - 46.24' R
Center of Detectable Warning
& Type 1 Curb Ramp

27 a-0+04.93 - 37.91' R
Center of Detectable Warning
& Type 1 Curb Ramp

28 a-0+02.44 - 34.36' R
End 17.5' Radius Fillet
Begin Str C & G
TC Elev. (Set in Field)

29 a-0+04.59 - 34.35' R
End Str C & G
TC Elev. (Match Existing)

30 a-0+04.91 - 43.72' R
End Ramp Slope

31 a-0+02.41 - 46.21' R
Back of Turning Space

32 a-0+07.41 - 46.22' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - tmp13418
File - U:\rdpn\spnk0231\0a1cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B43	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.
All Curb Ramps on this sheet are 6' wide.

1 a 3+31.85 - 35.17' L
Begin Str. C & G
TC Elev. (Match Existing)

2 a 3+49.85 - 35.17' L
End Str. C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

3 a 3+52.85 - 39.11' L
Center of Detectable Warning
& Type 2 Curb Ramp

4 a 3+52.85 - 44.28' L
End Ramp Slope

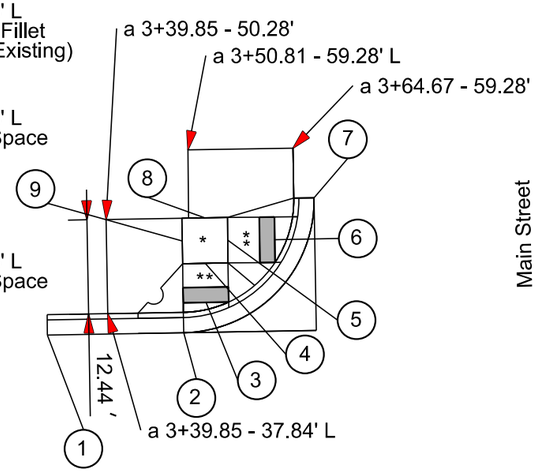
5 a 3+55.87 - 47.28' L
End Ramp Slope

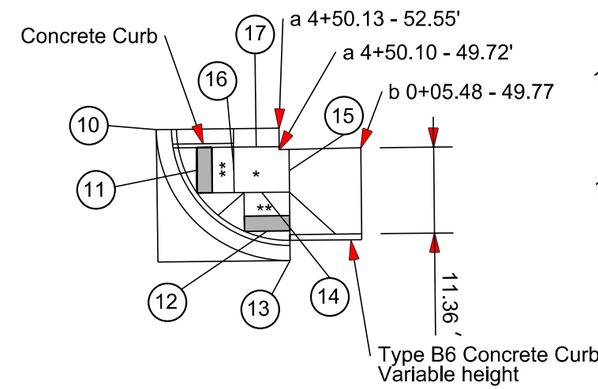
6 a 3+62.07 - 47.24' L
Center of Detectable Warning
& Type 2 Curb Ramp

7 a 3+67.35 - 59.68' L
End 17.5' Radius Fillet
TC Elev. (Match Existing)

8 a 3+52.87 - 50.28' L
Back of Turning Space

9 a 3+49.85 - 47.28' L
Back of Turning Space





10 a 4+33.94 - 52.62' L
Begin 17.5' Radius Fillet
TC Elev. (Match Existing)

11 a 4+39.21 - 47.18' L
Center of Detectable Warning
& Type 2 Curb Ramp

12 a 4+48.34 - 39.00' L
Center of Detectable Warning
& Type 2 Curb Ramp

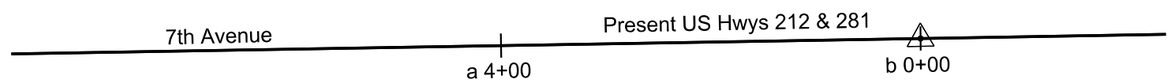
13 a 4+51.32 - 35.04' L
End 17.5' Radius Fillet
TC Elev. (Match Existing)

14 a 4+48.38 - 44.12' L
End Ramp Slope

15 a 4+51.40 - 46.91' L
Back of Turning Space

16 a 4+44.08 - 47.14.' L
End Ramp Slope

17 a 4+47.10 - 50.12' L
Back of Turning Space



18 a 3+44.01 - 34.26' R
Begin Str. C&G
TC Elev. (Match Existing)

19 a 3+50.01 - 34.22' R
End Str. C&G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

20 a 3+53.04 - 38.14' R
Center of Detectable Warning
& Type 2 Curb Ramp

21 a 3+63.67 - 48.65' R
Center of Detectable Warning
& Type 2 Curb Ramp

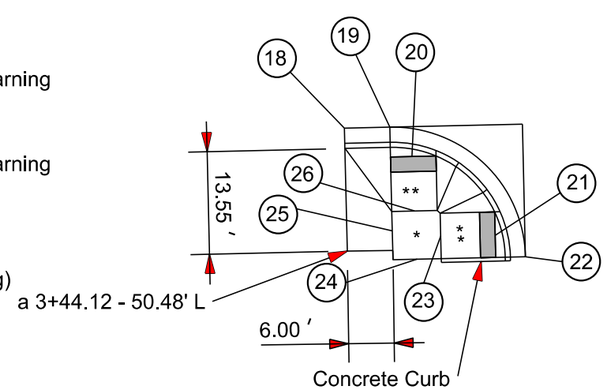
22 a 3+67.63 - 51.60' R
End 17.5' Radius Fillet
TC Elev. (Match Existing)

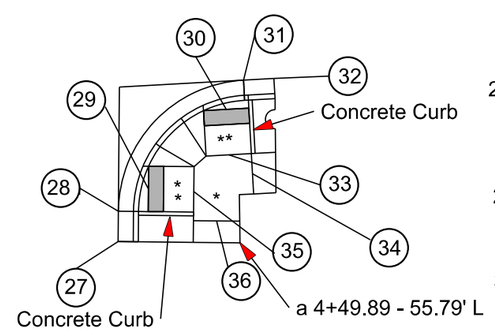
23 a 3+56.48 - 48.69' R
End Ramp Slope

24 a 3+53.31 - 51.70' R
Back of Turning Space

25 a 3+50.11 - 48.54' R
Back of Turning Space

26 a 3+53.08 - 45.33' R
End Ramp Slope





27 a 4+33.80 - 55.37' R
Begin Str. C&G
TC Elev. (Match Existing)

28 a 4+33.90 - 51.37' R
End Str. C&G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

29 a 4+37.91 - 48.48' R
Center of Detectable Warning
& Type 2 Curb Ramp

30 a 4+48.37 - 38.16' R
Center of Detectable Warning
& Type 2 Curb Ramp

31 a 4+50.72 - 34.34' R
End 17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

32 a 4+54.73 - 34.19' R
End Str C & G
TC Elev. (Match Existing)

33 a 4+48.60 - 44.16' R
End Ramp Slope

34 a 4+51.70 - 46.71' R
Back of Turning Space

35 a 4+43.91 - 48.63' R
End Ramp Slope

36 a 4+46.85 - 52.85' R
Back of Turning Space

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - tpr13418
File - U:\rdpr\jspnk0023T\0a4cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B44	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.

1 b 3+40.90 - 35.13' L
Begin Str. C & G
TC Elev. (Match Existing)

2 b 3+49.40- 37.80' L
Center of Detectable Warning
& Type 1 Curb Ramp

3 b 3+51.90 - 35.13' L
End Str. C & G
Begin 10' Radius Fillet
TC Elev. (Set in Field)

4 b 3+61.90 - 45.08' L
End 10' Radius Fillet
Begin Str. C&G
TC Elev. (Set in Field)

5 b 3+59.08- 46.08' L
Center of Detectable Warning
& Type 1 Curb Ramp

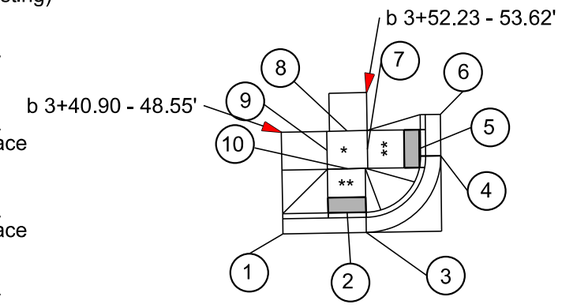
6 b 3+61.93 - 50.57' L
End Str. C & G
TC Elev. (Match Existing)

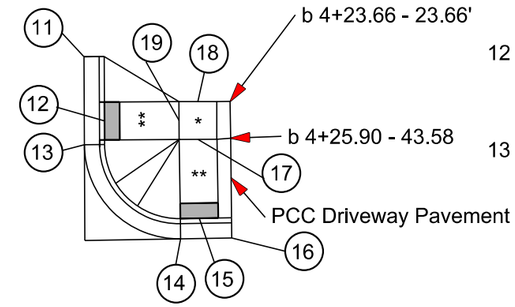
7 b 3+52.23 - 46.12' L
End Ramp Slope

8 b 3+49.57 - 48.60' L
Back of Turning Space

9 b 3+46.90 - 46.07' L
Back of Turning Space

10 b 3+49.56 - 43.60' L
End Ramp Slope





11 b 4+06.72 - 54.67' L
Begin Str C & G
TC Elev. (Match Existing)

12 b 4+06.29 - 46.13' L
Center of Detectable Warning
& Type 1 Curb Ramp

13 b 4+06.58 - 43.05' L
End Str. C & G
Begin 12.5' Radius Fillet
TC Elev. (Set in Field)

14 b 4+19.08 - 30.40' L
End 12.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

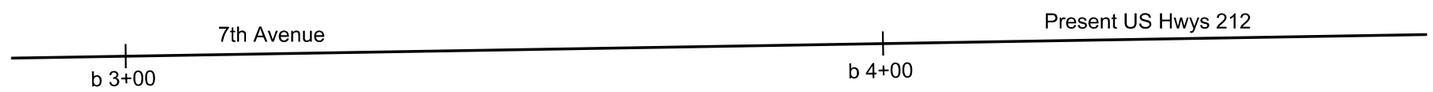
15 b 4+21.58 - 33.03' L
Center of Detectable Warning
& Type 1 Curb Ramp

16 b 4+25.82 - 30.40' L
End Str C & G
TC Elev. (Match Existing)

17 b 4+21.58 - 43.49' L
End Ramp Slope

18 b 4+21.66 - 48.49' L
Back of Turning Space

19 b 4+19.12- 46.02' L
End Ramp Slope



20 b 3+40.40 - 33.75' R
Begin Str. C & G
TC Elev. (Match Existing)

21 b 3+48.90 - 36.40' R
Center of Detectable Warning
& Type 1 Curb Ramp

22 b 3+54.96 - 33.71' R
End Str. C&G
Begin 7.5' Radius Fillet
TC Elev. (Set in Field)

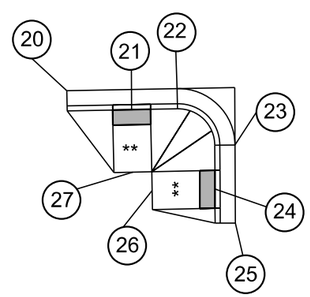
23 b 3+62.47 - 41.30' R
End 7.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

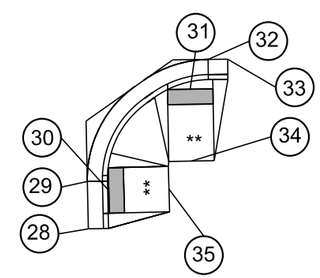
24 b 3+59.73 - 47.06' R
Center of Detectable Warning
& Type 1 Curb Ramp

25 b 3+62.35 - 51.59' R
End Str.C & G
TC Elev. (Match Existing)

26 b 3+51.43 - 47.15' R
End Ramp Slope

27 b 3+48.92 - 44.65' R
End Ramp Slope





28 b 4+07.52 - 51.13' R
Begin Str. C & G
TC Elev. (Match Existing)

29 b 4+07.48 - 44.88' R
End Str. C & G
Begin 15' Radius Fillet
TC Elev. (Set in field)

30 b 4+10.29 - 46.12' R
Center of Detectable Warning
& Type 1 Curb Ramp

31 b 4+21.27 - 32.92' R
Center of Detectable Warning
& Type 2 Curb Ramp

32 b 4+23.69 - 29.04' R
End 15' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

33 b 4+26.29 - 29.05' R
End Str. C & G
TC Elev. (Match Existing)

34 b 4+21.27 - 42.41' R
End Ramp Slope

35 b 4+18.25 - 46.05' R
Back of Turning Space

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

CURB RAMP DETAILS

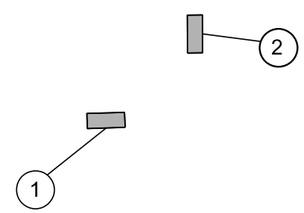
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B45	B65

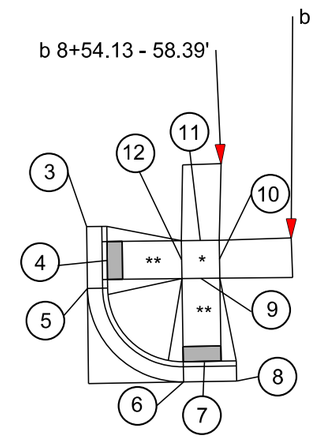
Plotting Date: 07/08/2015

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.

1 b 7+80.67- 32.76' L
Center of Detectable Warning

2 b 7+93.62 - 44.96' L
Center of Detectable Warning





3 b 8+36.25 - 50.37' L
Begin Str C & G
TC Elev. (Match Existing)

4 b 8+38.90- 45.85' L
Center of Detectable Warning
& Type 1 Curb Rbmp

5 b 8+36.21 - 42.22' L
End Str C & G
Begin 12.5' Radius Fillet
TC Elev.(Set in Field)

6 b 8+48.71 - 29.66' L
End 12.5' Radius Fillet
Begin Str C & G
TC Eleve.(Set in Field)

7 b 8+51.21 - 32.33 ' L
Center of Detectable Warning
& Type 1 Curb Ramp

8 b 8+55.71 - 29.66' L
End Str C & G
TC Elev.(Match Existing)

9 b 8+51.21 - 43.29' L
End Ramp Slope

10 b 8+53.71 - 45.78' L
Back of Turning Spbce

11 b 8+51.21 - 48.29' L
Back of Turning Space

12 b 8+48.71 - 45.80' L
End Ramp Slope

13 b 7+73.47 - 29.17' R
Begin Str. C & G
TC Elev. (Match Existing)

14 b 7+81.49 - 31.78' R
Center of Detectable Warning
& Type 1 Curb Ramp

15 b 7+83.97 - 29.09' R
End Str.C & G
Begin 12.5' Radius Fillet
TC Elev. (Set in Field)

16 b 7+96.56 - 41.83' R
End 12.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

17 b 7+93.76 - 44.57' R
Center of Detectable Warning
& Type 1 Curb Ramp

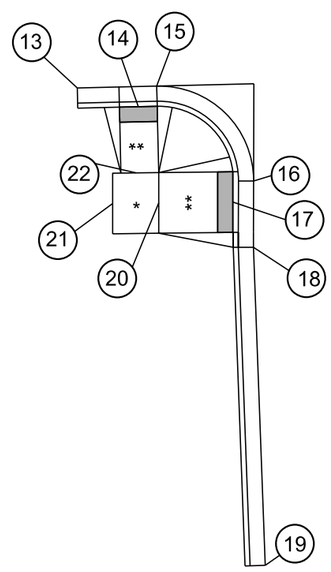
18 b 7+96.39 - 50.58' R
End Str. C & G
Begin Str C & G
TC Elev. (Set in Field)

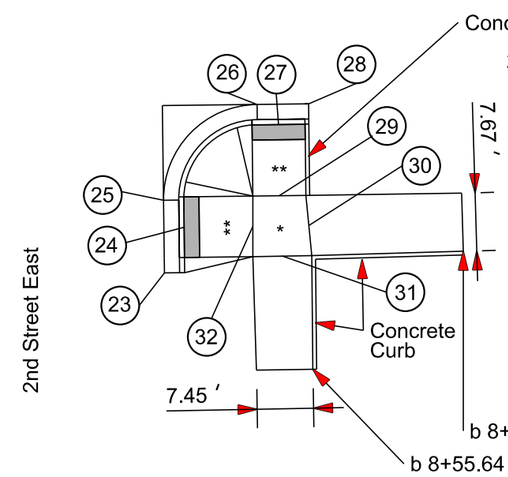
19 b 7+97.23 - 92.59' R
End Str C & G
TC Elev. (Match Existing)

20 b 7+83.98 - 44.52' R
End Ramp Slope

21 b 7+77.90 - 44.49' R
Back of Turning Space

22 b 7+81.01 - 40.51' R
End Ramp Slope





23 b 8+36.25 - 50.66' R
End Str. C & G
TC Elev. (Match Existing)

24 b 8+38.96 - 44.68' R
Center of Detectable Warning
& Type 1 Curb Ramp

25 b 8+36.30 - 41.08' R
End Str. C & G
Begin 12.5' Radius Fillet
TC Elev. (Set in Field)

26 b 8+48.86 - 28.64' R
End 12.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

27 b 8+51.64 - 31.35' R
Center of Detectable Warning
& Type 1 Curb Ramp

28 b 8+55.65 - 28.67' R
End Str. C & G
TC Elev. (Match Existing)

29 b 8+51.60 - 40.74' R
End Ramp Slope

30 b 8+55.42 - 44.73' R
Back of Turning Space

31 b 8+51.86 - 48.71' R
Back of Turning Space

32 b 8+48.03 - 44.72' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rdpr\jspnk0231\0b7cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B46	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.

1 b 11+45.21 - 45.66' L
Begin Sidewalk

2 b 11+60.23 - 45.57' L
End Sidewalk

3 b 12+04.04 - 51.51' L
Begin 75' Radius C & G
TC Elev. (Match Existing)

4 b 12+09.29- 59.96' L
Center of Detectable Warning
& Type 3 Curb Ramp

5 b 12+17.00 - 64.80' L
End 75' Radius C & G
TC Elev. (Match Existing)

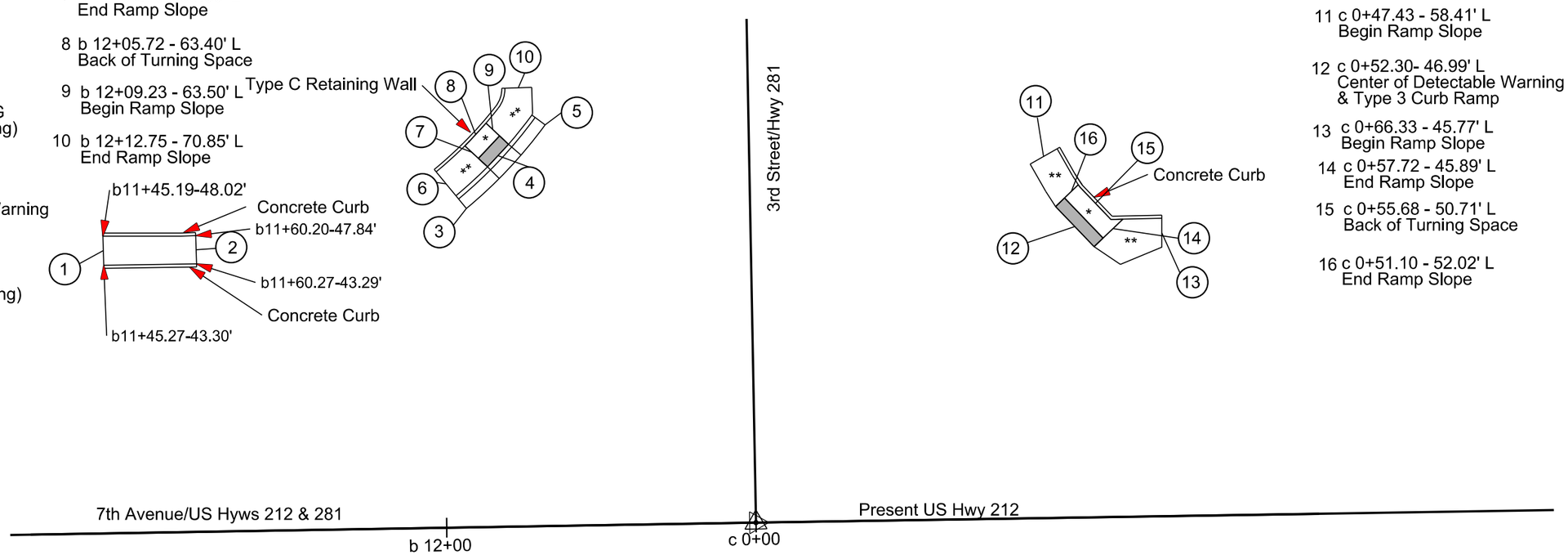
6 b 12+00.81 - 55.54' L
Begin Ramp Slope

7 b 12+05.76 - 59.89' L
End Ramp Slope

8 b 12+05.72 - 63.40' L
Back of Turning Space

9 b 12+09.23 - 63.50' L
Begin Ramp Slope

10 b 12+12.75 - 70.85' L
End Ramp Slope



11 c 0+47.43 - 58.41' L
Begin Ramp Slope

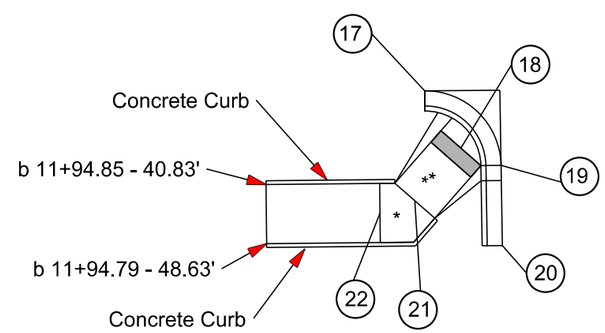
12 c 0+52.30- 46.99' L
Center of Detectable Warning
& Type 3 Curb Ramp

13 c 0+66.33 - 45.77' L
Begin Ramp Slope

14 c 0+57.72 - 45.89' L
End Ramp Slope

15 c 0+55.68 - 50.71' L
Back of Turning Space

16 c 0+51.10 - 52.02' L
End Ramp Slope



17 b 12+15.97 - 28.81' R
Begin 10' Radius Fillet
TC Elev. (Match Existing)

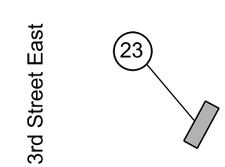
18 b 12+20.63 - 36.46' R
Center of Detectable Warning
& Type 2 Curb Ramp

19 b 12+25.90 - 38.81' R
End 10' Radius Fillet
Begin Str C & G
TC Elev. (Set in Field)

20 b12+25.91 - 49.40' R
End Str C & G
TC Elev. (Match Existing)

21 b12+14.44 - 43.30' R
End Ramp Slope

22 b12+09.82 - 44.84' R
Back of turning Space



23 c 0+23.25 - 42.04' R
Center of Detectable Warning

Legend:
* Landing
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rd\prj\spnk0237\b12cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B47	B65

Plotting Date: 07/07/2015 Revised 6 - 10 - 2015(BT)

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.

1 c 3+58.71 - 32.25' L
Begin Str. C & G
TC Elev. (Match Existing)

1a c 3+64.71 - 32.27' L
End Str. C & G
Begin Type P Gutter
TC Elev. (Set in Field)

1b c 3+88.71 - 32.26' L
End Type P Gutter
Begin Str C & G
TC Elev. (Set in Field)

2 c 3+91.20 - 35.09' L
Center of Detectable Warning
& Type 1 Curb Ramp

3 c 3+92.46 - 32.38' L
End Str. C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

4 c 3+91.17 - 43.40' L
End Ramp Slope

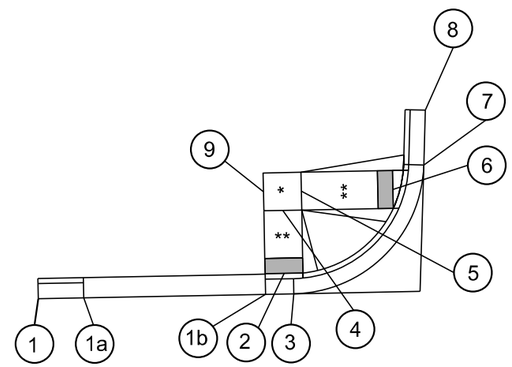
5 c 3+93.66 - 45.91' L
End Ramp Slope

6 c 4+05.75 - 45.95' L
Center of Detectable Warning
& Type 2 Curb Ramp

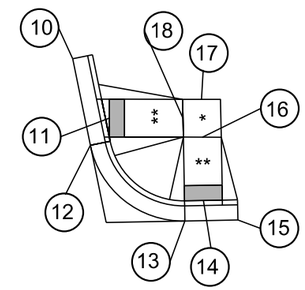
7 c 4+09.87 - 49.10' L
End 17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

8 c 4+10.20 - 56.34' L
End Str. C & G
TC Elev. (Match Existing)

9 c 3+88.66 - 45.89' L
Back of Turning Space



4th Street East



10 c 4+47.31 - 54.10' L
Begin Str. C & G
TC Elev. (Match Existing)

11 c 4+52.03 - 46.18' L
Center of Detectable Warning
& Type 2 Curb Ramp

12 c 4+49.47 - 42.65' L
End Str. C & G
Begin 12.5' Radius Fillet
TC Elev. (Set in Field)

13 c 4+61.78 - 32.46' L
End 12.5' Radius Fillet
Begin Str. C & G
TC Elev.(Set in Field)

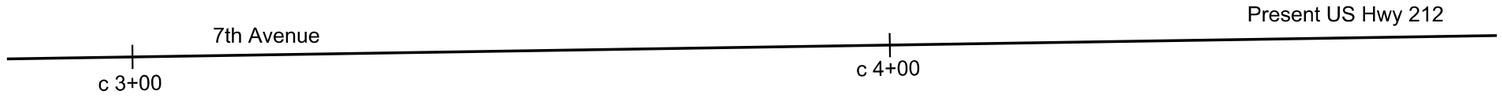
14 c 4+64.27 - 35.13' L
Center of Detectable Warning
& Type 1 Curb Ramp

15 c 4+68.78 - 32.47' L
End Str. C & G
TC Elev. (Match Existing)

16 c 4+64.25 - 43.49' L
End Ramp Slope

17 c 4+64.24 - 48.49' L
Back of Turning Space

18 c 4+61.75 - 46.03' L
End Ramp Slope



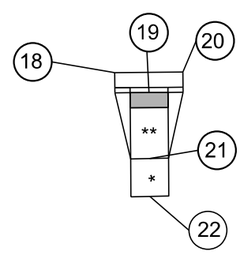
18 c 3+86.95 - 31.68' R
Begin Str. C & G
TC Elev. (Match Existing)

19 c 3+91.43 - 34.38' R
Center of Detectable Warning
& Type 1 Curb Ramp

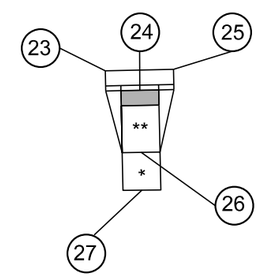
20 b 3+95.95 - 31.74' R
End Str.C & G
TC Elev. (Match Existing)

21 c 3+91.37 - 43.10' R
End Ramp Slope

22 c 3+91.34 - 48.10' R
Back of Turning Space



4th Street East



23 c 4+58.73 - 31.63' R
Begin Str. C & G
TC Elev. (Match Existing)

24 c 4+63.24 - 34.28' R
Center of Detectable Warning
& Type 1 Curb Ramp

25 c 4+67.73 - 31.59' R
End Str.C & G
TC Elev. (Match Existing)

26 c 4+63.29 - 42.47' R
End Ramp Slope

27 c 4+63.31 - 47.47' R
Back of Turning Space

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - tmpr13418
File - U:\rdtpr\spnk023T0c3cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B48	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.

1 c 8+20.14 - 32.44' L
Begin Str. C & G
TC Elev. (Match Existing)

2 c 8+22.14 - 32.43' L
End Str. C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

3 c 8+24.64 - 35.96' L
Center of Detectable Warning
& Type 2 Curb Ramp

4 c 8+35.40 - 45.69' L
Center of Detectable Warning
& Type 2 Curb Ramp

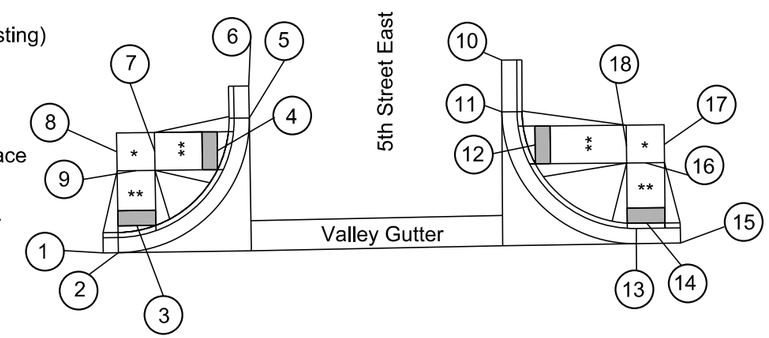
5 c 8+39.68 - 49.94' L
End 17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

6 c 8+39.68 - 54.18' L
End Str. C & G
TC Elev. (Match Existing)

7 c 8+27.13 - 45.73' L
End Ramp Slope

8 c 8+22.13 - 45.73' L
Back of Turning Space

9 c 8+24.63 - 43.23' L
End Ramp Slope



10 c 8+73.11 - 57.06' L
Begin Str. C & G
TC Eleve. (Match Existing)

11 c 8+73.05 - 50.24' L
End Str. C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

12 c 8+77.36 - 45.79' L
Center of Detectable Warning
& Type 2 Curb Ramp

13 c 8+90.55 - 32.56' L
End 17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

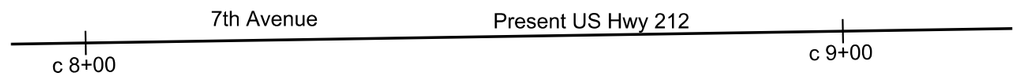
14 c 8+91.85 - 35.26' L
Center of Detectable Warning
& Type 1 Curb Ramp

15 c 8+96.35 - 32.56' L
End Str. C & G
TC Elev. (Match Existing)

16 c 8+91.91 - 43.22' L
End Ramp Slope

17 c 8+94.42 - 45.71' L
Back of Turning Space

18 c 8+89.42 - 45.73' L
End Ramp Slope



19 c 8+20.17 - 31.28' R
Begin Str. C & G
TC Elev. (Match Existing)

20 c 8+22.84 - 31.28' R
End Str.C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

21 c 8+24.67 - 34.59' R
Center of Detectable Warning
& Type 2 Curb Ramp

22 c 8+35.95 - 44.28' R
Center of Detectable Warning
& Type 2 Curb Ramp

23 c 8+40.33 - 47.60' R
End17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

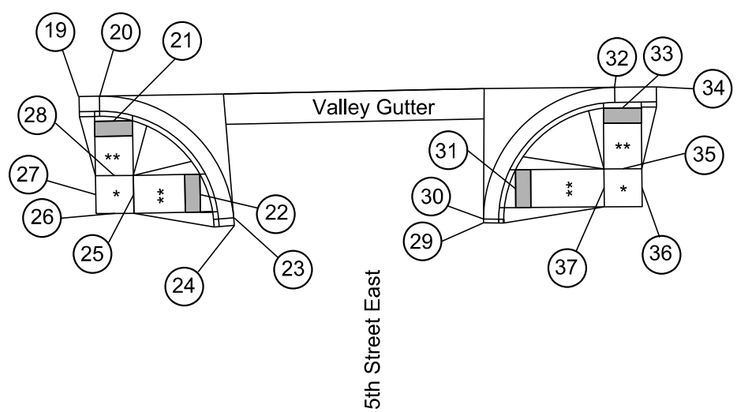
24 c 8+40.40 - 48.60' R
End Str. C & G
TC Elev. (Match Existing)

25 c 8+27.18 - 44.31' R
End Ramp Slope

26 c 8+24.68 - 46.79' R
Back of Turning Space

27 c 8+22.18 - 44.28' R
Back of Turning Space

28 c 8+24.68 - 41.79' R
End Ramp Slope



29 c 8+73.29 - 48.80' R
Begin Str. C & G
TC Elev. (Match Existing)

30 c 8+73.30 - 48.30' R
End Str.C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

31 c 8+77.60 - 44.35' R
Center of Detectable Warning
& Type 2 Curb Ramp

32 c 8+90.88 - 31.16' R
End17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

33 c 8+91.87 - 33.92' R
Center of Detectable Warning
& Type 1 Curb Ramp

34 c 8+96.38 - 31.19' R
End Str. C & G
TC Elev. ((Match Existing)

35 c 8+91.81 - 41.95' R
End Ramp Slope

36 c 8+94.29 - 44.47' R
Back of Turning Space

37 c 8+89.29 - 44.43' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - tnpr13418
File - U:\rdtpr\spnk023T0c8cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B49	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.

1 c 12+47.57 - 32.47' L
Begin Str. C & G
TC Elev. (Match Existing)

2 c 12+49.55 - 32.47' L
End Str. C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

3 c 12+52.07 - 36.04' L
Center of Detectable Warning
& Type 2 Curb Ramp

4 c 12+63.10- 46.51' L
Center of Detectable Warning
& Type 2 Curb Ramp

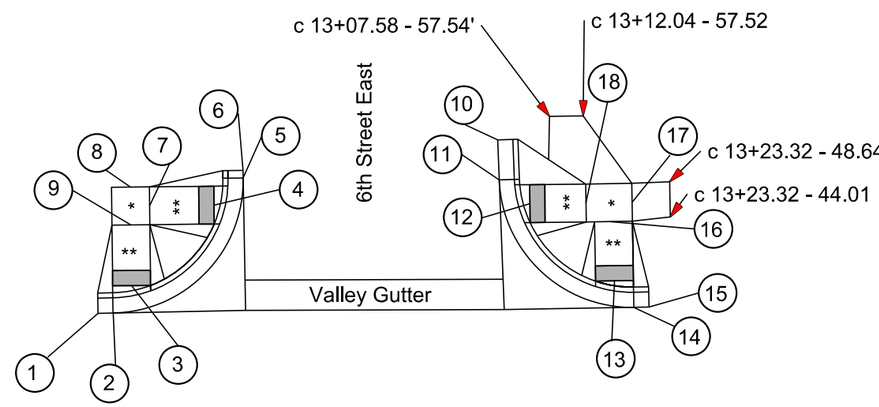
5 c 12+67.01 - 50.03' L
End 17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

6 c 12+67.01 - 51.03' L
End Str. C & G
TC Elev. (Match Existing)

7 c 12+54.62 - 46.55' L
End Ramp Slope

8 c 12+52.13 - 49.06' L
Back of Turning Space

9 c 12+52.11 - 44.06' L
End Ramp Slope



10 c 13+00.70 - 54.52' L
Begin Str. C & G
TC Elev. (Match Existing)

11 c 13+00.82 - 49.24' L
End Str. C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

12 c 13+04.81 - 46.06' L
Center of Detectable Warning
& Type 2 Curb Ramp

13 c 13+15.83 - 35.68' L
Center of Detectable Warning
& Type 2 Curb Ramp

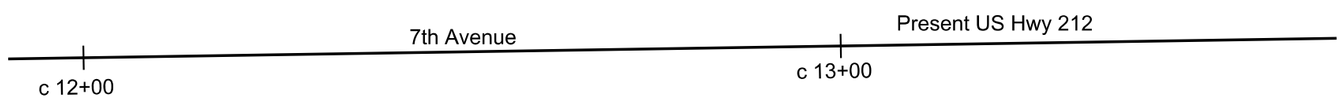
14 c 13+18.33 - 32.14' L
End 17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

15 c 13+20.33 - 32.15' L
End Str. C & G
TC Elev. (Match Existing)

16 c 13+15.82 - 43.52' L
End Ramp Slope

17 c 13+18.32 - 46.02' L
Back of Turning Space

18 c 13+12.23 - 46.02' L
End Ramp Slope



19 c 12+47.18 - 31.54' R
Begin Str. C & G
TC Elev. (Match Existing)

20 c 12+50.26 - 31.53' R
End Str C & G
Begin 17.5' Radius C & G
TC Elev. (Set in Field)

21 c 12+51.69 - 34.70' R
Center of Detectable Warning
& Type 2 Curb Ramp

22 c 12+63.70 - 45.12' R
Center of Detectable Warning
& Type 2 Curb Ramp

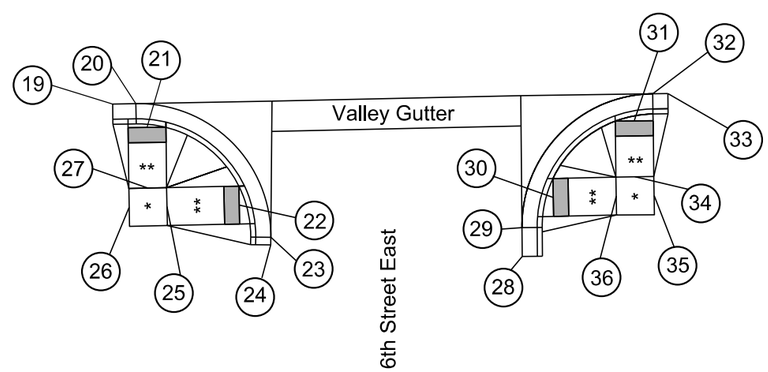
23 c 12+67.81 - 49.45' R
End 17.5' Radius Str. C & G
Begin Str C & G
TC Elev. (Set in Field)

24 c 12+67.79 - 50.45' R
End Str.C & G
TC Elev. (Match Existing)

25 c 12+54.16 - 45.17' R
End Ramp Slope

26 c 12+49.16 - 45.20' R
Back of Turning Space

27 c 12+51.65 - 42.69' R
End Ramp Slope



28 c 13+00.95 - 52.50' R
Begin Str. C & G
TC Elev. (Match Existing)

29 c 13+00.98 - 48.68' R
End Str. C & G
Begin 17.5' Radius C & G
TC Elev. (Set in Field)

30 c 13+05.17 - 44.77' R
Center of Detectable Warning
& Type 2 Curb Ramp

31 c 13+16.00 - 34.83' R
Center of Detectable Warning
& Type 2 Curb Ramp

32 c 13+18.51 - 31.29' R
End 17.5' Radius C & G
Begin Str C & G
TC Elev. (Set in Field)

33 c 13+20.51 - 31.30' R
End Str C & G
TC Elev. (Match Existing)

34 c 13+15.99 - 42.21' R
End Ramp Slope

35 c 13+18.48 - 44.73' R
Back of Turning Space

36 c 13+13.48 - 44.72' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rdprj\spnk0237\c12cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B50	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.

1 c 21+82.14 - 32.30' L
Begin Str. C & G
TC Elev. (Match Existing)

2 c 21+86.60 - 32.29' L
End Str. C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

3 c 21+89.11- 35.83' L
Center of Detectable Warning
& Type 2 Curb Ramp

4 c 22+00.00 - 45.89' L
Center of Detectable Warning
& Type 2 Curb Ramp

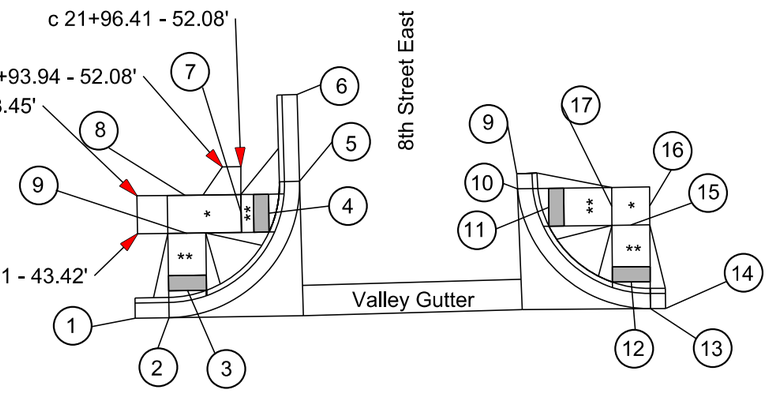
5 c 22+04.12 - 50.03' L
End 17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

6 c 22+03.96 - 61.48' L
End Str. C & G
TC Elev. (Match Existing)

7 c 21+96.35 - 45.89' L
End Ramp Slope

8 c 21+86.61 - 45.91' L
Back of Turning Space

9 c 21+89.11- 43.40' L
End Ramp Slope



9 c 22+32.81 - 50.56' L
Begin Str. C & G
TC Elev. (Match Existing)

10 c 22+32.89 - 48.58' L
End Str. C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

11 c 22+36.96 - 46.07' L
Center of Detectable Warning
& Type 2 Curb Ramp

12 c 22+47.71- 36.05' L
Center of Detectable Warning
& Type 2 Curb Ramp

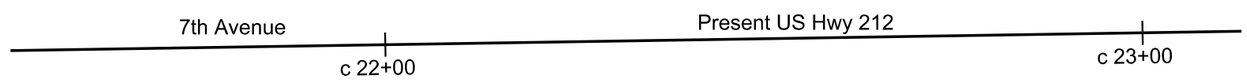
13 c 22+50.18 - 32.49' L
End 17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

14 c 22+52.18 - 32.47' L
End Str. C & G
TC Elev. (Match Existing)

15 c 22+47.77 - 43.56' L
End Ramp Slope

16 c 22+50.29 - 46.06' L
Back of Turing Space

17 c 22+45.29 - 46.06' L
End Ramp Slope

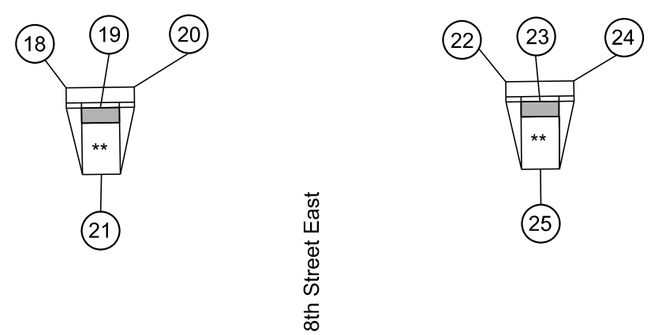


18 c 21+84.56 - 31.49' R
Begin Str. C & G
TC Elev. (Match Existing)

19 c 21+89.06 - 34.16' R
Center of Detectable Warning
& Type 1 Curb Ramp

20 c 21+93.56 - 31.50' R
End Str.C & G
TC Elev. (Match Existing)

21 c 21+89.05 - 42.98' R
End Ramp Slope



22 c 22+42.60 - 31.58' R
Begin Str. C & G
TC Elev. (Match Existing)

23 c 22+47.10 - 34.25' R
Center of Detectable Warning
& Type 1 Curb Ramp

24 c 22+51.60 - 31.59' R
End Str.C & G
TC Elev. (Match Existing)

25 c 22+47.03 - 43.18' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rdlpr\jspnk023\tc22cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B51	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.

1 c 26+45.55 - 32.27' L
Begin Str. C & G
TC Elev. (Match Existing)

2 c 26+47.55 - 32.26' L
End Str. C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

3 c 26+50.06 - 35.79' L
Center of Detectable Warning
& Type 2 Curb Ramp

4 c 26+61.02 - 45.96' L
Center of Detectable Warning
& Type 2 Curb Ramp

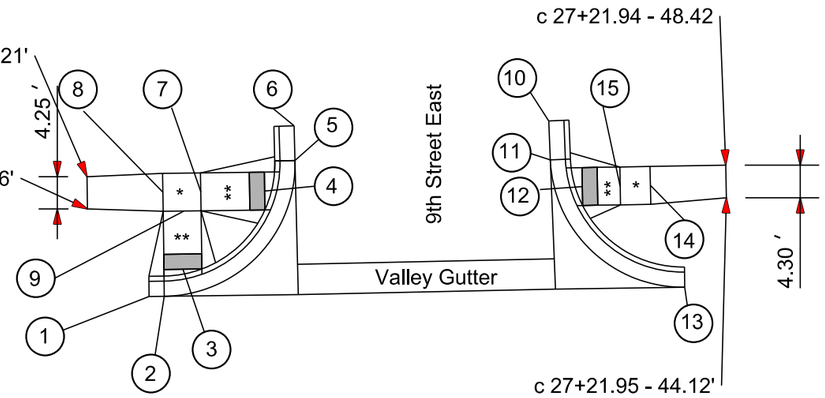
5 c 26+65.09 - 49.92' L
End 17.5' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

6 c 26+65.04 - 54.49' L
End Str. C & G
TC Elev. (Match Existing)

7 c 26+52.58 - 45.98' L
End Ramp Slope

8 c 26+50.08 - 48.48' L
Back of Turning Space

9 c 26+50.07- 43.48' L
End Ramp Slope



10 c 26+98.66 - 54.62' L
Begin Str. C & G
TC Elev.(Match Existing)

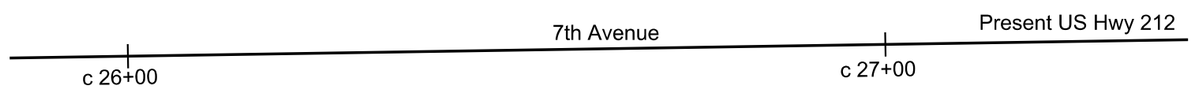
11 c 26+98.79 - 49.47' L
End Str. C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

12 c 27+02.95 - 45.89' L
Center of Detectable Warning
& Type 2 Curb Ramp

13 c 27+16.27 - 32.39' L
End 17.5' Radius Fillet
TC Elev. (Match Existing)

14 c 27+11.95 - 45.90' L
Back of Turning Space

15 c 27+07.95 - 45.90' L
End Ramp Slope



16 c 26+40.54 - 31.69' R
Begin Str. C & G
TC Elev. (Match Existing)

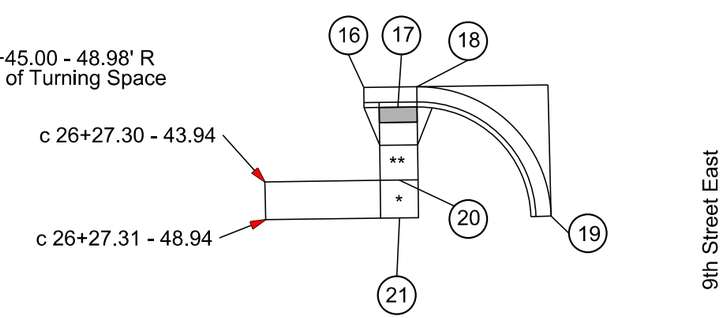
17 c 26+45.03 - 34.37' R
Center of Detectable Warning
& Type 1 Curb Ramp

18 c 26+47.54 - 31.70' R
End Str.C & G
Begin 17.5' Radius Fillet
TC Elev. (Set in Field)

19 c 26+65.00 - 49.06' R
End 17.5' Radius Fillet
TC Elev. (Match Existing)

20 c 26+45.01 - 43.98' R
End Ramp Slope

21 c 26+45.00 - 48.98' R
Back of Turning Space



Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rdprj\spnk0237\c26cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B52	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.

1 390+92.79 - 23.82' L
Begin Str. C & G
TC Elev. (Match Existing)

2 390+98.77 - 23.92' L
End Str. C & G
Begin 17.0' Radius Fillet
TC Elev. (Set in Field)

3 391+01.23 - 27.51' L
Center of Detectable Warning
& Type 2 Curb Ramp

4 391+11.50 - 37.13' L
Center of Detectable Warning
& Type 2 Curb Ramp

5 391+15.54 - 39.38' L
End 17.0' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

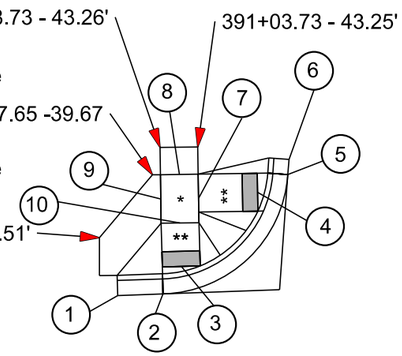
6 391+15.72 - 41.37' L
End Str. C & G
TC Elev. (Match Existing)

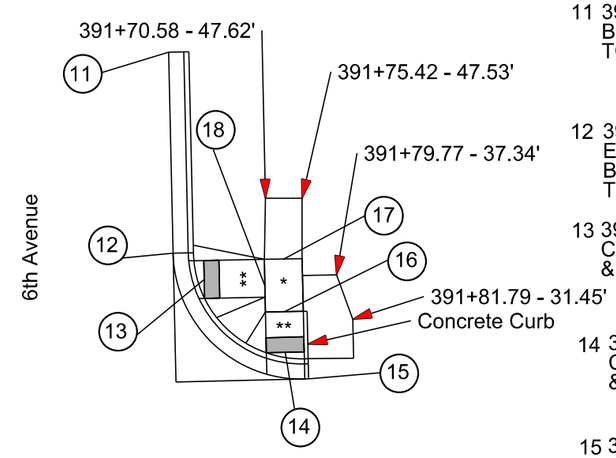
7 391+03.69 - 37.15' L
End Ramp Slope

8 391+01.21 - 39.66' L
Back of Turning Space

9 390+94.70 - 36.47' L
Back of Turning Space

10 391+01.18 - 33.25' L
End Ramp Slope





11 391+58.15 - 67.15' L
Begin Str. C & G
TC Elev.(Match Existing)

12 391+58.25 - 40.60' L
End Str. C & G
Begin 17' Radius Fillet
TC Elev. (Set in Field)

13 391+62.29 - 37.07' L
Center of Detectable Warning
& Type 2 Curb Ramp

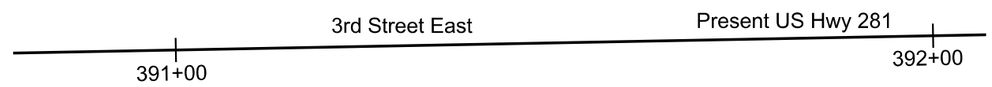
14 391+72.81 - 27.23' L
Center of Detectable Warning
& Type 2 Curb Ramp

15 391+75.32 - 23.67' L
End 17' Radius Fillet
End Str. C & G
TC Elev. (Match Existing)

16 391+72.78 - 32.60' L
End Ramp Slope

17 391+72.77 - 39.57' L
Back of Turning Space

18 391+70.28 - 37.07' L
End Ramp Slope



19 390+97.34 - 24.10' R
Begin Str. C & G
TC Elev. (Match Existing)

20 390+99.08 - 24.10' R
End Str.C & G
Begin 15' Radius Fillet
TC Elev. (Set in Field)

21 391+00.33 - 29.33' R
Center of Detectable Warning
& Type 2 Curb Ramp

22 391+00.29 - 35.16' R
End Ramp Slope

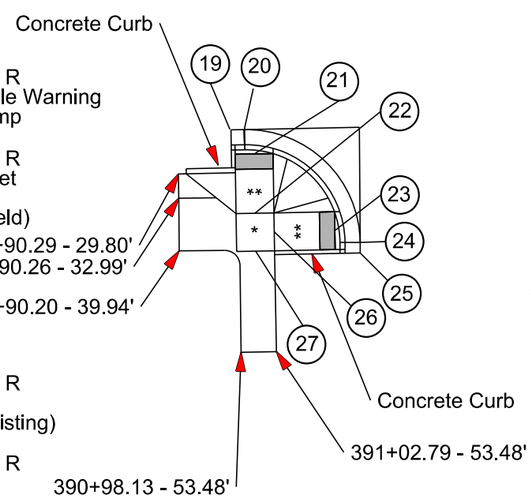
23 391+10.79 - 37.66' R
Center of Detectable Warning
& Type 2 Curb Ramp

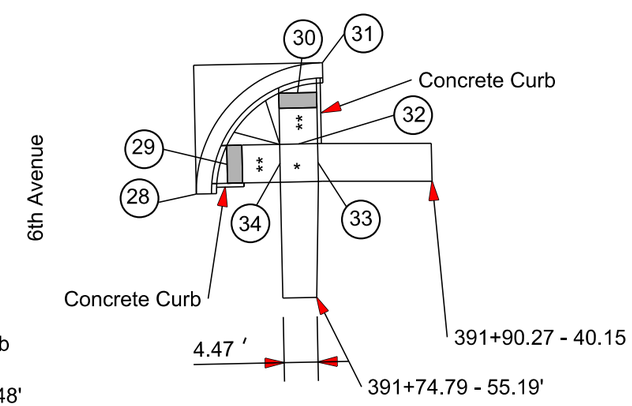
24 391+14.10 - 39.27' R
End 15' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

25 391+14.09 - 40.66' R
End Str. C & G
TC Elev.(Match Existing)

26 391+02.79 - 37.66' R
End Ramp Slope

27 391+00.29 - 40.16' R
Back of Turning Space





28 391+59.13 - 41.26' R
Begin 17' Radius Fillet
TC Elev. (Match Existing)

29 391+63.22 - 37.41' R
Center of Detectable Warning
& Type 2 Curb Ramp

30 391+72.74 - 28.15' R
Center of Detectable Warning
& Type 2 Curb Ramp

31 391+76.09 - 24.22' R
End 17' Radius Fillet
TC Elev. (Match Existing)

32 391+72.76 - 34.90' R
End Ramp Slope

33 391+75.26 - 37.39' R
Back of Turning Space

34 391+70.25 - 37.40' R
End Ramp Slope

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

Plot Scale - 1:20
Plotted From - tmpr13418
File - U:\rdpr\jspnk0231\391cr.dgn

CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B53	B65

Plotting Date: 07/07/2015

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.

1 386+67.27 - 23.78' L
Begin 17' Radius Fillet
TC Elev. (Match Existing)

2 386+78.15 - 31.79' L
Center of Detectable Warning
& Type 3 Curb Ramp

3 386+84.15 - 38.68' L
End 17.0' Radius Fillet
Begin Str. C & G
TC Elev. (Set in Field)

4 386+84.55 - 41.90' L
End Str. C & G
TC Elev. (Match Existing)

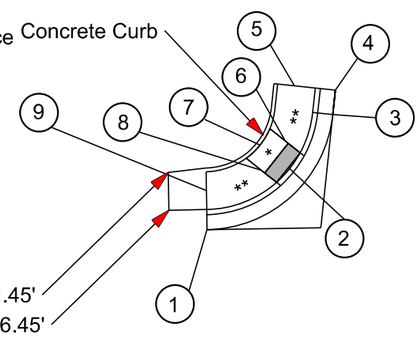
5 386+79.42 - 42.53' L
Begin Ramp Slope

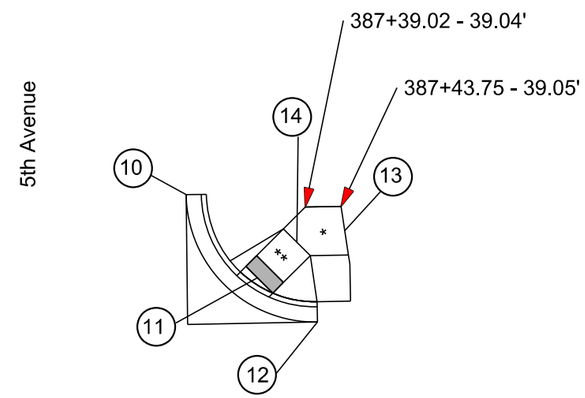
6 386+77.77 - 35.35' L
End Ramp Slope

7 386+74.47 - 34.83' L
Back of Turning Space

8 386+74.59 - 31.49' L
End Ramp Slope

9 386+67.27 - 28.95' L
Begin Ramp Slope





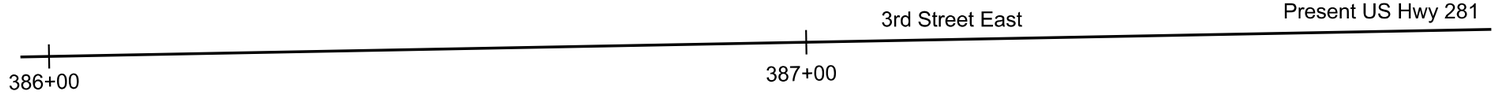
10 387+23.34 - 40.98' L
Begin 17' Radius Fillet
TC Elev. (Match Existing)

11 387+32.78 - 29.55' L
Center of Detectable Warning
& Type 2 Curb Ramp

12 387+40.35 - 23.84' L
End 17.0' Radius Fillet
TC Elev. (Match Existing)

13 387+44.18 - 35.83' L
Back of Turning Space

14 387+37.82 - 34.41' L
End Ramp Slope



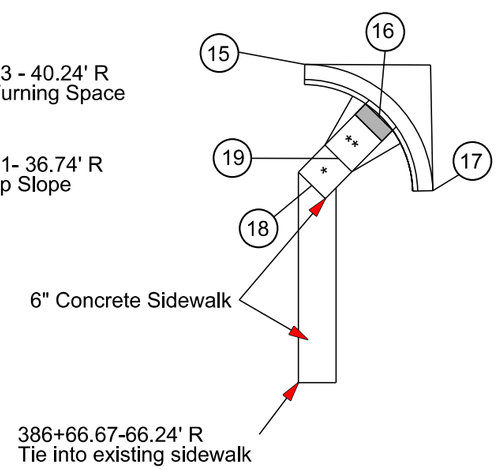
15 386+68.29 - 24.25' R
Begin 17' Radius Fillet
TC Elev. (Match Existing)

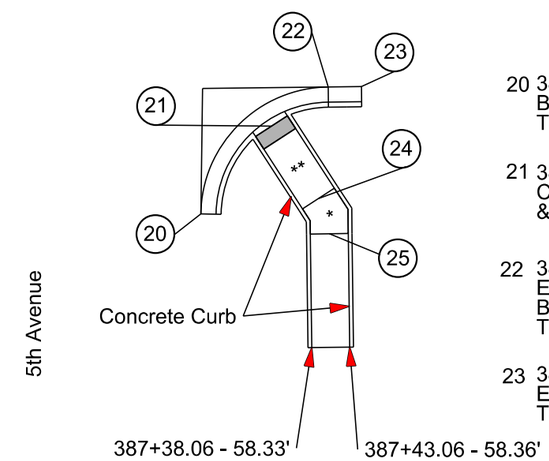
16 386+77.99 - 31.39' R
Center of Detectable Warning
& Type 1 Curb Ramp

17 386+84.90 - 41.25' R
End 17' Radius Fillet
TC Elev. (Match Existing)

18 386+68.93 - 40.24' R
Back of Turning Space

19 386+72.51- 36.74' R
End Ramp Slope





20 387+23.74 - 40.42' R
Begin 17' Radius Fillet
TC Elev. (Match Existing)

21 387+33.28 - 28.99' R
Center of Detectable Warning
& Type 1 Curb Ramp

22 387+40.86 - 23.97' R
End 17' Radius Fillet
Begin Str.C & G
TC Elev. (Set in Field)

23 387+45.27 - 24.01' R
End Str. C & G
TC Elev. (Match Existing)

24 387+39.30 - 38.68' R
End Ramp Slope

25 387+40.65 - 43.35' R
Back of Turning Space

Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

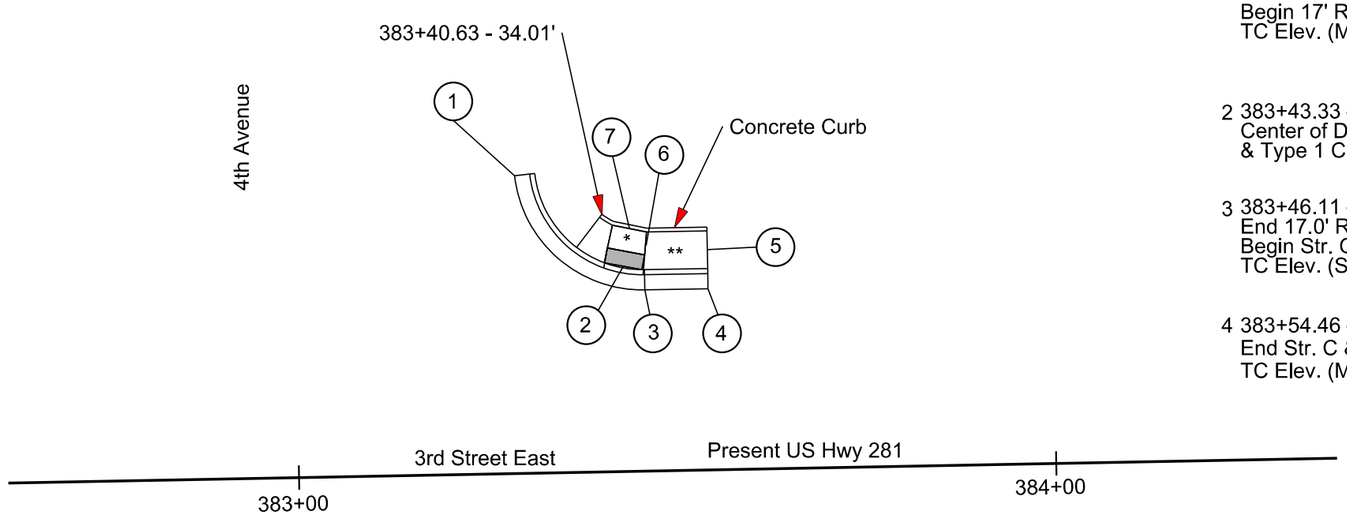
Plot Scale - 1:20
Plotted From - trpr13418
File - U:\rdfp\jspnk0231\386cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B54	B65

Plotting Date: 07/07/2015

CURB RAMP DETAILS

Note: All Curb and Gutter shown on this sheet is Type B66, and all Sidewalk is 5' wide except as noted.



1 383+29.21 - 39.29' L
Begin 17' Radius C & G
TC Elev. (Match Existing)

2 383+43.33 - 27.09' L
Center of Detectable Warning
& Type 1 Curb Ramp

3 383+46.11 - 23.91' L
End 17.0' Radius C & G
Begin Str. C & G
TC Elev. (Set in Field)

4 383+54.46 - 23.90' L
End Str. C & G
TC Elev. (Match Existing)

5 383+54.47 - 29.07' L
Begin Ramp Slope

6 383+46.23 - 29.08' L
End Ramp Slope

7 383+44.24 - 32.06' L
Back of Turning Space

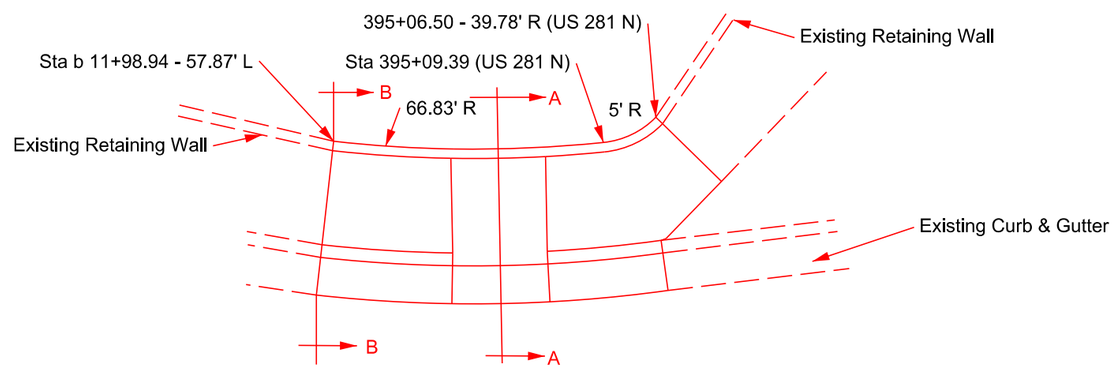
Legend:
* Turning Space
** Curb ramp with 8.3% maximum slope and 2% cross slope
Detectable Warning

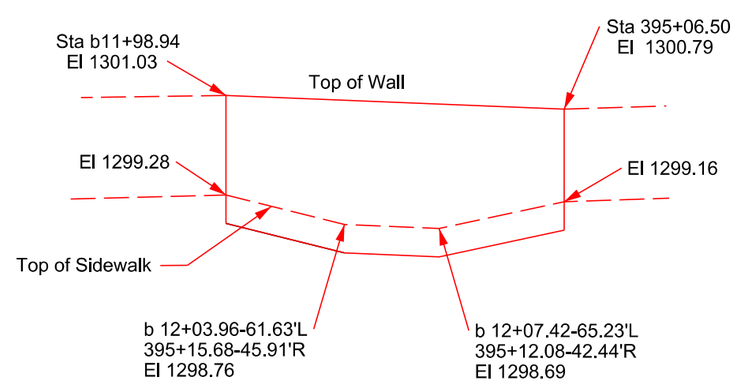
Plot Scale - 1:20
Plotted From - tnpr13418
File - U:\rdfp\spnk0231\383cr.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0212(156)306 NH 0281(99)152	B55	B65

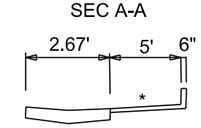
Plotting Date: 07/07/2015

TYPE C RETAINING WALL LAYOUT

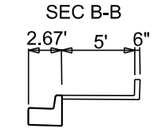




SEC A-A



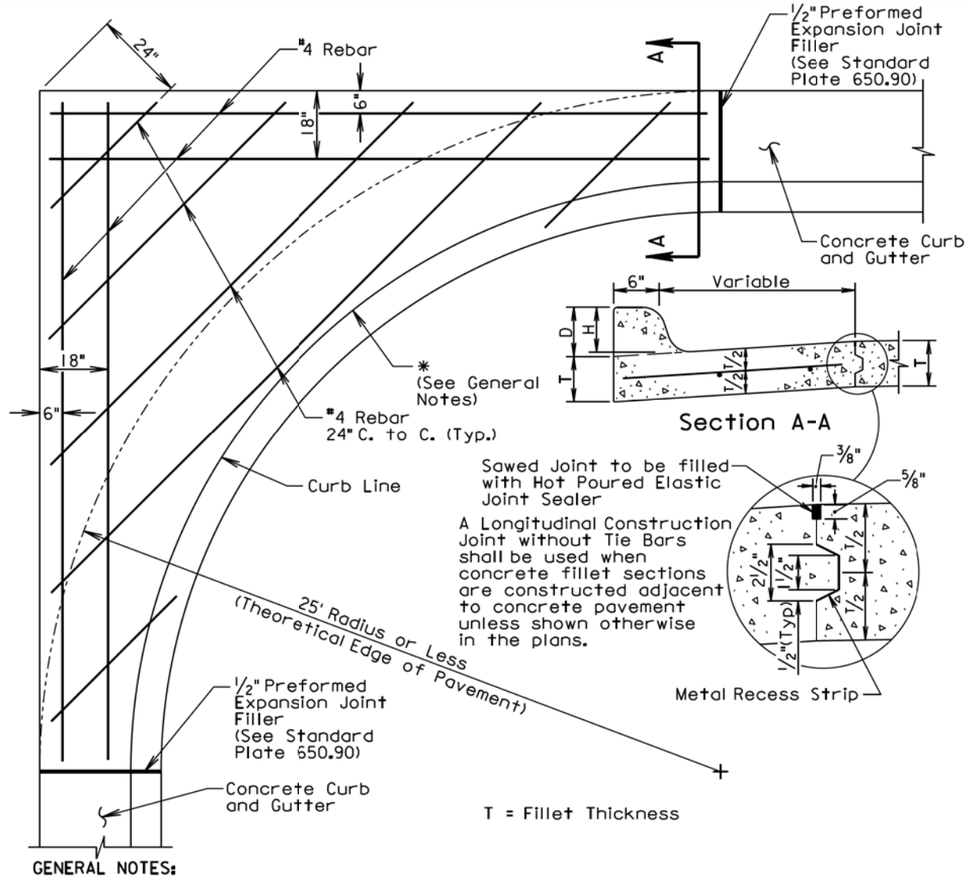
SEC B-B



* 0.020 FT/FT Slope Max

Not to Scale

Plot Scale - 1:40
Plotted From - tnpr13418
File - ...\Retaining Wall Layout.dgn



GENERAL NOTES:

* If a curb ramp is constructed adjacent to a PCC fillet section, the curb will need to be modified. Refer to the corresponding curb ramp standard plate or other special details in the plans for modification of the PCC fillet section.

Dimensions D, H, and T shall conform to those shown on the appropriate curb and gutter standard plate.

All rebar shall conform to A.S.T.M. A615 Grade 60 and the Standard Specifications Sections 480 and 1010. All rebar shall have a minimum of 3" clear cover.

Class M6 Concrete shall be used in construction of the fillets.

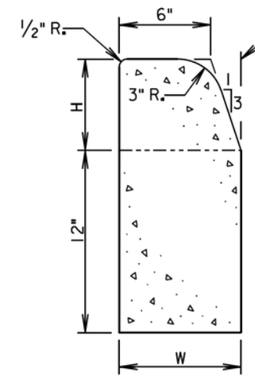
The concrete curb shall be monolithic with the concrete fillet. No separate payment for this curb will be made as the curb is considered a part of the fillet.

Joints shall be constructed at 10' intervals except when fillets are constructed adjacent to PCC Pavement. If there is adjacent PCC Pavement the joints shall be extended from edge of pavement through the fillet section as directed by the Engineer.

The cost for all materials, labor, and incidentals necessary to construct the PCC fillet section with curb and gutter shall be incidental to the contract unit price per square yard for the corresponding PCC fillet section bid item.

September 6, 2013

Published Date: 2nd Qtr. 2015	SDDOT	PCC FILLET SECTION WITH TYPE B CURB AND GUTTER	PLATE NUMBER 380.16
			Sheet 1 of 1



The stated radii on the plans and cross sections refer to this line and it shall also be the basis for horizontal linear foot measurement and payment.

Type	H (Inches)	W (Inches)	Cu. Yd. Per Lin. Ft.	Lin. Ft. Per Cu. Yd.
B6	6	8	0.0353	28.4
B7	7	8 3/8	0.0383	26.1
B8	8	8 5/8	0.0414	24.1
B9	9	9	0.0449	22.3
B10	10	9 3/8	0.0485	20.6

GENERAL NOTES:

The concrete for the Type B Concrete Curb shall comply with the requirements of the Standard Specifications for Class M6 Concrete.

A 1/2" preformed expansion joint filler shall be placed transversely in the curb at the following locations:

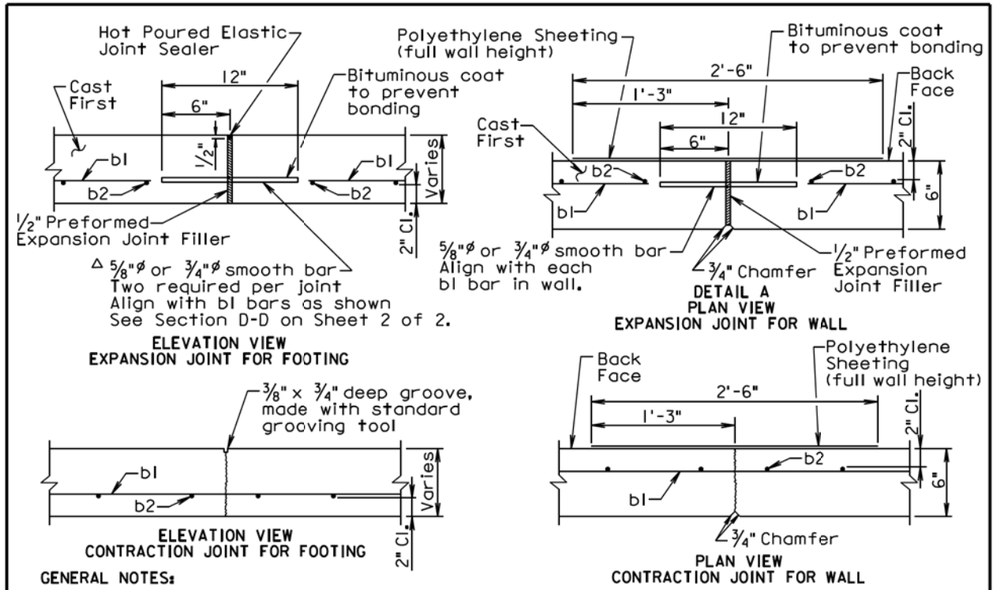
1. At each junction between the radius return of curb and curb which is parallel to the project centerline.
2. At each junction between the existing curb and new curb or curb and gutter.
3. At each junction between the curb and existing sidewalk to the depth of the sidewalk.

See Standard Plate 650.90 for contraction joints in the curb.

September 6, 2006

Published Date: 2nd Qtr. 2015	SDDOT	TYPE B CONCRETE CURB	PLATE NUMBER 650.02
			Sheet 1 of 1

Plot Scale - 1:200
- Plotted From - trpr17192
File - ...\prj\spnk023Tis38016s65002.dgn



GENERAL NOTES:

The Type C Concrete Retaining Wall shall be placed adjacent to pavement or curb and gutter as shown in Section D-D on sheet 2 of 2.

* The sidewalk width of the Type C Concrete Retaining Wall shall not be wider than 8 feet or narrower than 5 feet. See plans for specified width.

In the areas where the retaining wall footing is to be placed, a 2 inch thickness of cushion material shall be placed and compacted. The cushion material shall conform to Section 651.2 C. of the Specifications.

All concrete shall be Class M6 and conform to Section 462 of the Specifications.

All reinforcing steel shall be epoxy coated and shall conform to ASTM A615, Grade 60. The smooth bar may conform to ASTM A615, Grade 40. The epoxy coating shall conform to ASTM A775.

For variable height walls, the top b1 bar shall be placed parallel to the top of the wall.

The b1 bars shall be lapped a minimum of 12 inches.

A 3/4 inch chamfer shall be provided on all exposed retaining wall edges.

Use Detail B on sheet 2 of 2 for constructing corners in the retaining wall.

The maximum expansion joint spacing shall be 90 feet and the maximum contraction joint spacing shall be 30 feet. The contraction and expansion joints shall be placed to match pavement or curb joints where possible.

The exposed retaining wall surfaces shall receive a finish in accordance with 460.3 M. of the Specifications. The exposed surface of the retaining wall footing, when used as a sidewalk, shall receive a broom finish.

The Type C Concrete Retaining Wall shall be measured to the nearest square foot of front face area.

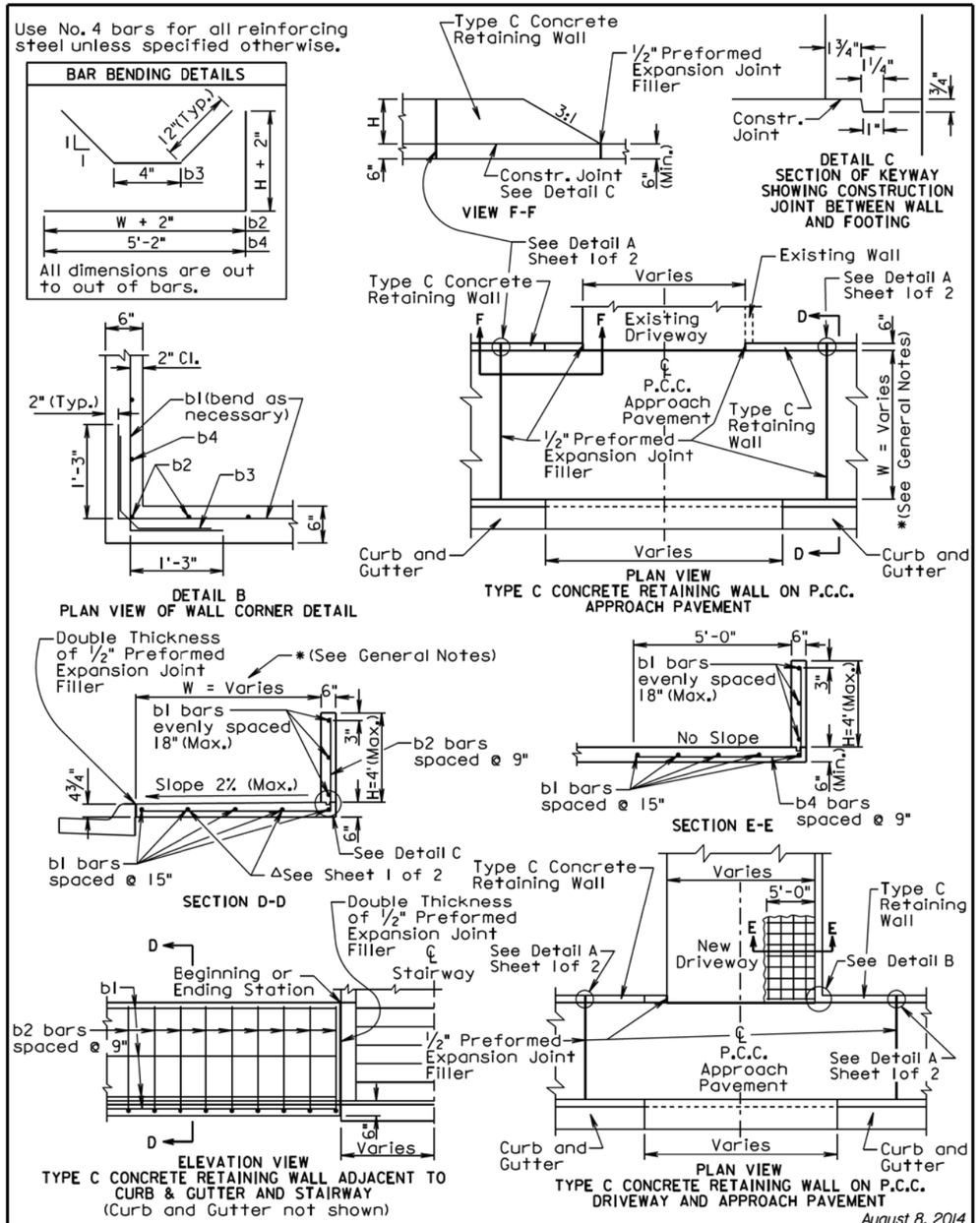
All costs for excavation, furnishing and placing backfill and cushion material, labor, equipment, preformed expansion joint filler, all reinforcing steel including the smooth bars, and all concrete except in the areas of PCC driveway and approach pavement, shall be incidental to the contract unit price per square foot for "Type C Concrete Retaining Wall".

The concrete used for the retaining wall footing that extends into the approach and/or driveway pavement shall be paid for at the contract unit price per square yard for the corresponding "PCC Approach Pavement" and/or "PCC Driveway Pavement" bid items.

August 8, 2014

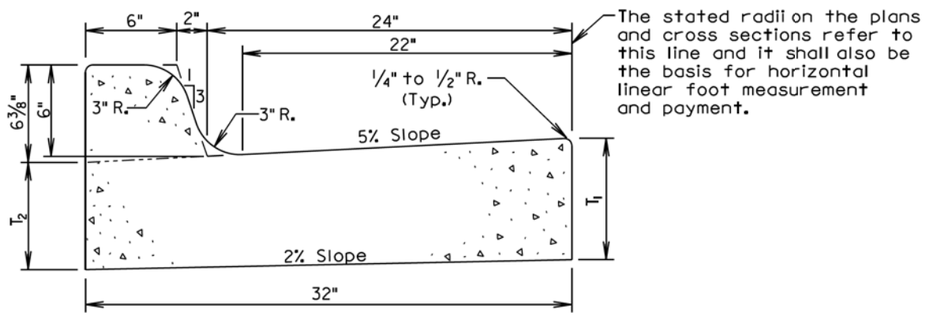
Published Date: 2nd Qtr. 2015	SDDOT	TYPE C CONCRETE RETAINING WALL	PLATE NUMBER 530.01
			Sheet 1 of 2

Use No. 4 bars for all reinforcing steel unless specified otherwise.



August 8, 2014

Published Date: 2nd Qtr. 2015	SDDOT	TYPE C CONCRETE RETAINING WALL	PLATE NUMBER 530.01
			Sheet 2 of 2



Type	T_1 (Inches)	T_2 (Inches)	Cu. Yd. Per Lin. Ft.	Lin. Ft. Per Cu. Yd.
B66	6	5 1/16	0.057	17.7
B67	7	6 1/16	0.065	15.4
B68	8	7 1/16	0.073	13.7
B68.5	8.5	7 9/16	0.077	13.0
B69	9	8 1/16	0.081	12.3
B69.5	9.5	8 9/16	0.085	11.7
B610	10	9 1/16	0.090	11.2
B610.5	10.5	9 9/16	0.094	10.7
B611	11	10 1/16	0.098	10.2
B611.5	11.5	10 9/16	0.102	9.8
B612	12	11 1/16	0.106	9.4

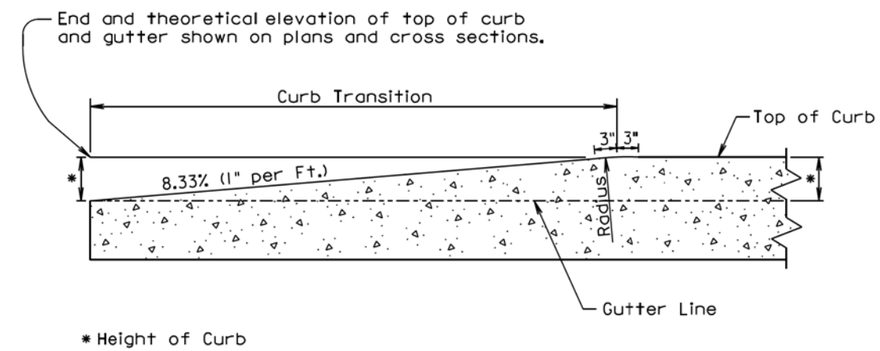
GENERAL NOTES:

When concrete curb and gutter longitudinally adjoins new concrete pavement, the method of attachment shall be by one of the methods shown on Standard Plate 380.11.

See Standard Plate 650.90 for expansion and contraction joints in the curb and gutter.

September 6, 2008

Published Date: 2nd Qtr. 2015	SDDOT	TYPE B CONCRETE CURB AND GUTTER	PLATE NUMBER 650.01 Sheet 1 of 1

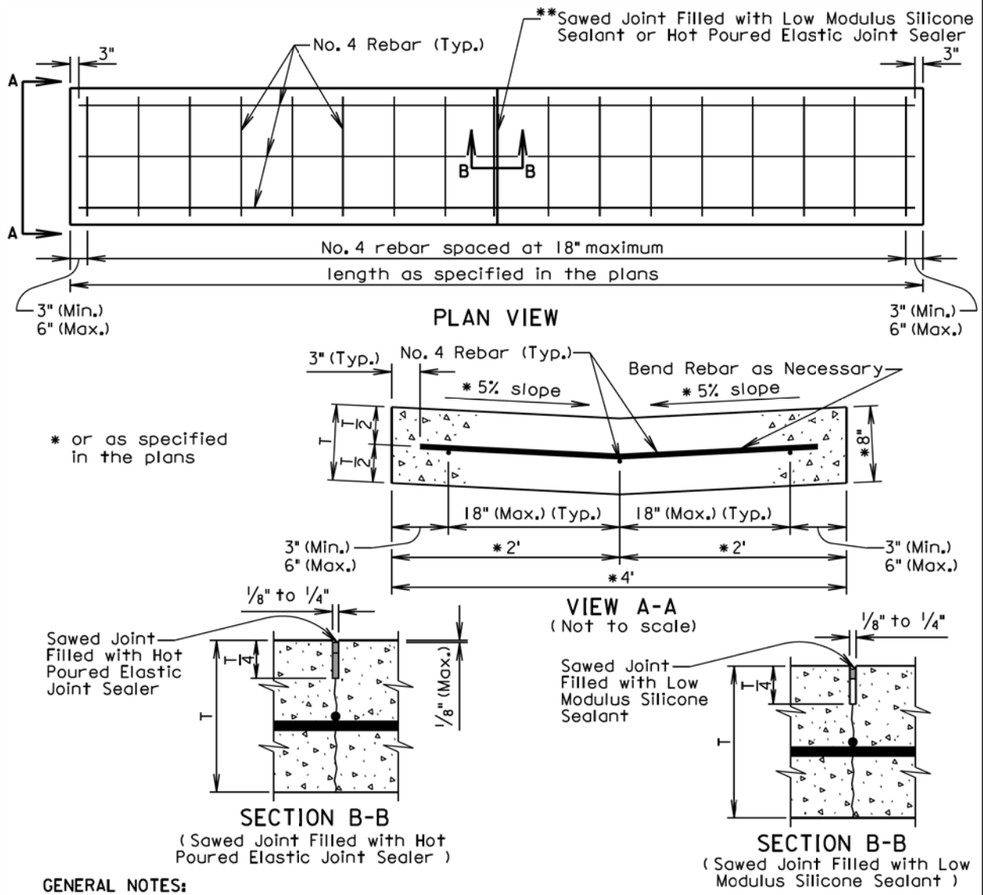


LONGITUDINAL SECTION OF CONCRETE CURB TAPER

September 14, 2005

Published Date: 2nd Qtr. 2015	SDDOT	CONCRETE CURB TAPER	PLATE NUMBER 650.35 Sheet 1 of 1

Plot Scale - 1:200
- Plotted From - tpr17192
File - ...\pr\spnk0231ts65001s65035.dgn



GENERAL NOTES:

The concrete shall comply with the Specifications for Class M6 concrete.

The reinforcing steel shall comply with the requirements of the Specification Sections 480 and 1010.

If a lap splice is provided the No. 4 rebar shall be lapped a minimum of 12".

** The sawed joints shall be spaced at 12'; however, when the length of the valley gutter is 12' to 24' there shall be a joint at the midpoint of the length. The saw cut to control cracking shall be a minimum of 1/4 the thickness of the pavement.

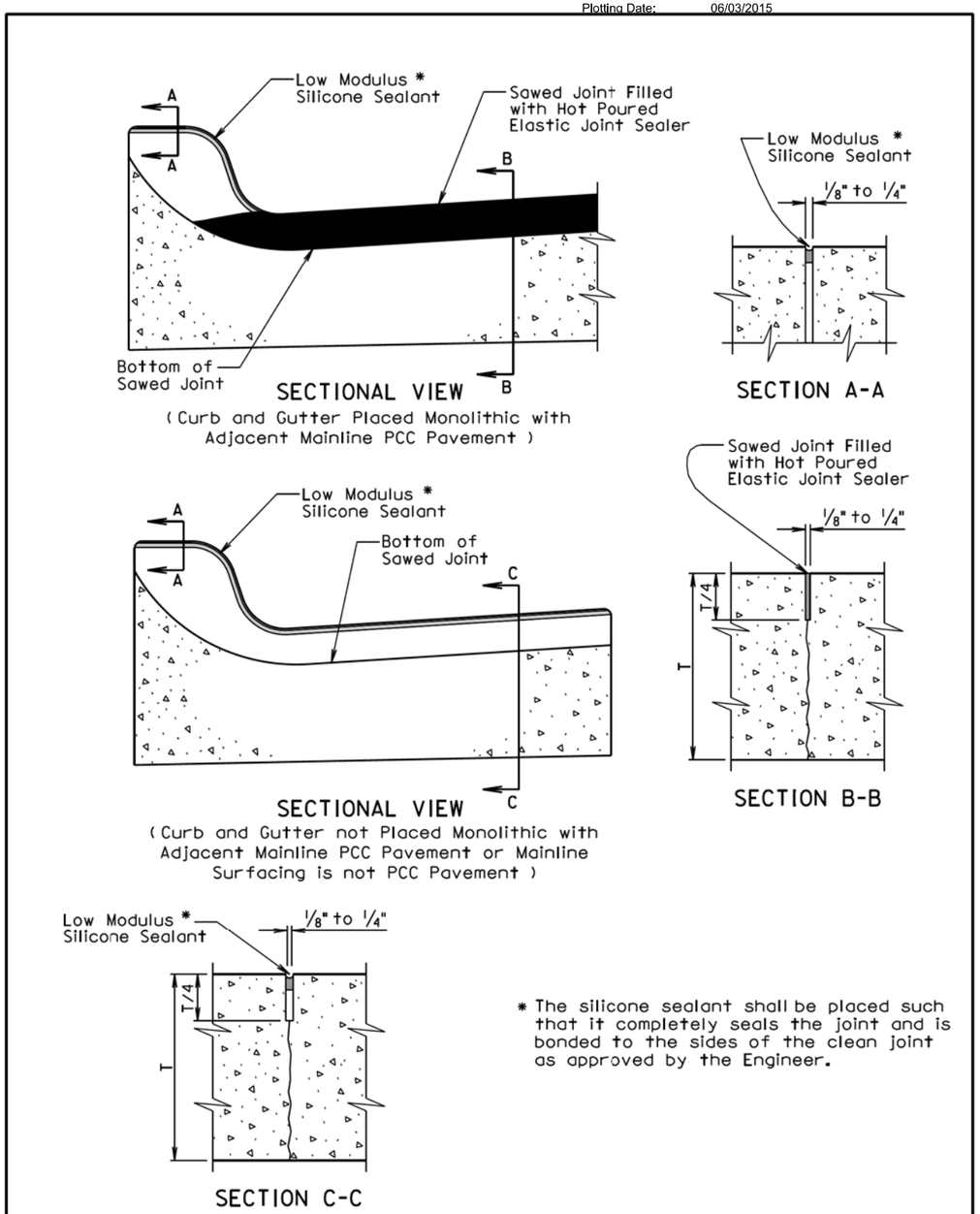
All hot poured elastic joint sealer material spilled on the surface of the concrete pavement shall be removed as soon as the material has cooled. The extent of removal of material shall be to the satisfaction of the Engineer. All costs for removal of the spilled joint sealer material shall be borne by the Contractor.

The silicone sealant shall be bonded to the sides of a clean joint to completely seal the joint as approved by the Engineer.

All costs for furnishing and installing the valley gutter including materials, equipment, labor, and incidentals shall be included in the contract unit price per square yard for the corresponding Valley Gutter bid item.

February 10, 2014

Published Date: 2nd Qtr. 2015	SDDOT	VALLEY GUTTER	PLATE NUMBER 650.40
			Sheet 1 of 1

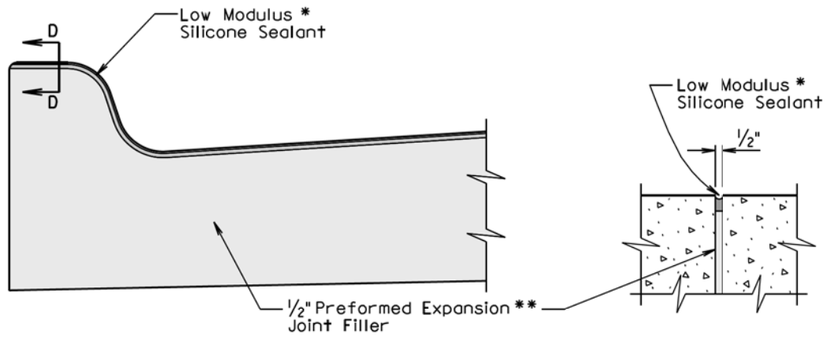


* The silicone sealant shall be placed such that it completely seals the joint and is bonded to the sides of the clean joint as approved by the Engineer.

September 6, 2013

Published Date: 2nd Qtr. 2015	SDDOT	JOINTS IN CONCRETE CURB AND GUTTER	PLATE NUMBER 650.90
			Sheet 1 of 2

Plot Scale - 1:200
- Plotted From - tnp17192
File - ...\spnk0237\s65040s65090_1.dgn



SECTIONAL VIEW
(Curb and Gutter at ½" Preformed Expansion Joint Filler Location)

SECTION D-D

* The silicone sealant shall be placed such that it completely seals the joint and is bonded to the sides of the clean joint as approved by the Engineer.

GENERAL NOTES:

For illustrative reason, only the type B curb and gutter is shown.

** A ½" preformed expansion joint filler shall be placed transversely in the curb and gutter at the following locations:

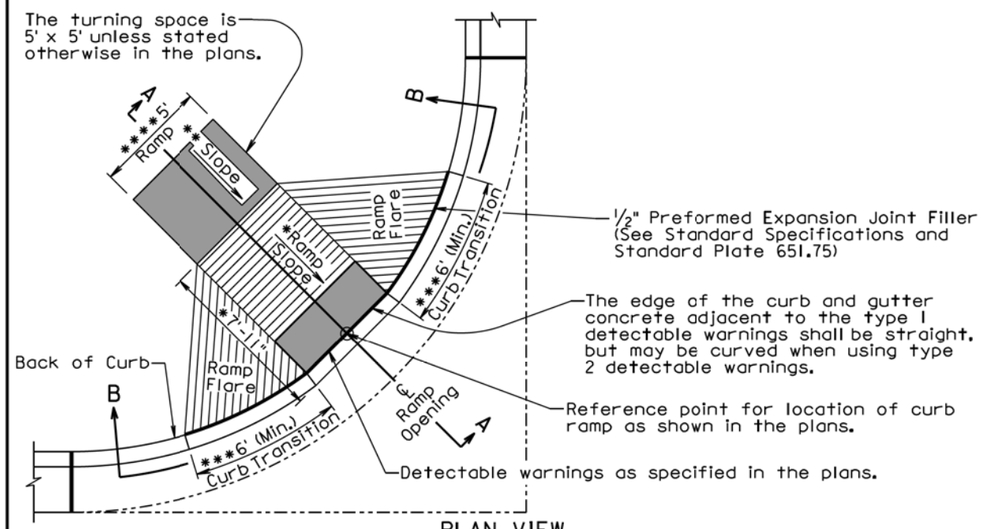
1. At each junction between the radius return of curb and gutter and curb and gutter which is parallel to the project centerline.
2. At each junction between new curb and gutter and existing curb and gutter.

Transverse contraction joints shall be constructed at 10' intervals in the concrete curb and gutter except when the concrete curb and gutter is constructed adjacent to mainline PCC pavement. When concrete curb and gutter is constructed adjacent to mainline PCC pavement, a transverse contraction joint shall be constructed in the concrete curb and gutter at each mainline PCC pavement transverse contraction joint location.

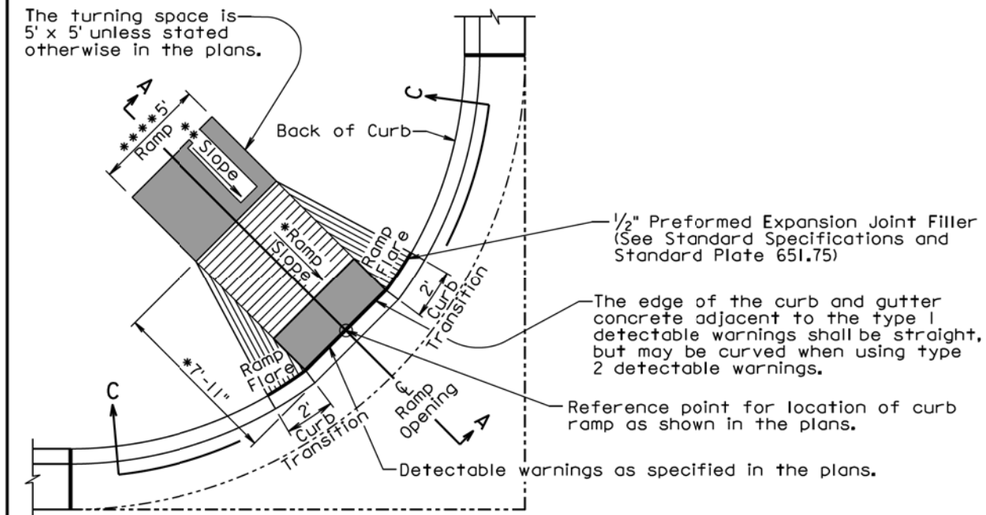
When concrete curb and gutter is not placed monolithically with the mainline PCC pavement or when the adjacent mainline surfacing is not PCC concrete, the transverse contraction joints in the concrete curb and gutter shall be 1½ inches deep if formed in the fresh concrete using a suitable grooving tool. If a saw is used to cut the contraction joints, then the depth of the joint shall be at least ¼ the thickness of the concrete and the joint shall be sealed in accordance with the details shown above.

September 6, 2013

Published Date: 2nd Qtr. 2015	SDDOT	JOINTS IN CONCRETE CURB AND GUTTER	PLATE NUMBER 650.90
			Sheet 2 of 2



PLAN VIEW
(With 6'+ Curb Transition)



PLAN VIEW
(With 2' Curb Transition)

September 6, 2013

Published Date: 2nd Qtr. 2015	SDDOT	TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP)	PLATE NUMBER 651.01
			Sheet 1 of 3

Plot Scale - 1:200
- Plotted From - tpri17192
File - ...\spnk0231ts65090_2s65101_1.dgn

The ramp slope shall be 12:1 (8.3%) maximum. The ramp length shall not exceed 15' unless stated otherwise in the plans. Ramp slopes are designed at 12:1 (8.3%) unless stated otherwise in the plans.

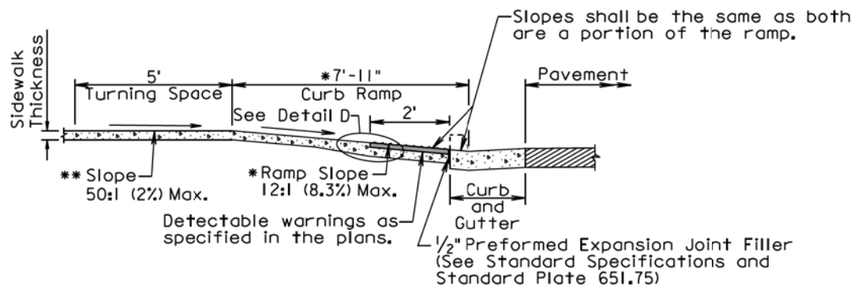
* The cross slope of the ramp shall not be steeper than 50:1 (2%).

The 7'-11" dimension was computed based on a flat roadway profile, a continuous 2% theoretical slope from top of theoretical curb to the top of ramp, and a 6" high curb. The dimension shall be adjusted based on the curb type shown in the plans, the roadway geometrics, and the sidewalk geometrics.

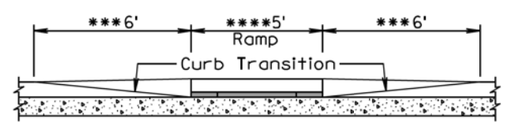
** The slope in the turning space shall not be steeper than 50:1 (2%) in any direction of pedestrian travel.

*** The curb transition shall be a minimum of 6' long, a maximum of 10' long, and the curb transition slope shall not be steeper than 10:1 (10%) unless stated otherwise in the plans.

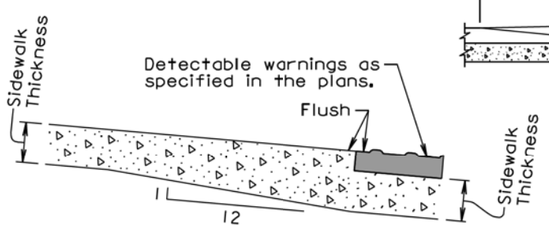
**** The ramp width is 5' unless stated otherwise in the plans.



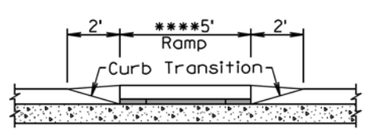
SECTION A-A



SECTIONAL VIEW B-B



DETAIL D



SECTIONAL VIEW C-C

September 6, 2013

Published Date: 2nd Qtr. 2015	SDDOT	TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP)	PLATE NUMBER 651.01
			Sheet 2 of 3

GENERAL NOTES:

For illustrative purpose only, type 1 detectable warnings are shown in the drawings.

For illustrative purpose only, PCC fillet sections are shown in the drawings. The curb ramp depicted on this standard plate may be used with a PCC fillet section, with curved curb and gutter, or with straight curb and gutter.

For illustrative purpose only, the curb ramp location is shown at the center of a PCC fillet section. The curb ramp shall be placed at the location stated in the plans.

Sidewalk shall not be placed adjacent to the ramp flares when a 2' curb transition is used unless shown otherwise in the plans.

* Care shall be taken to ensure a uniform grade on the ramp, free of sags and short grade changes.

Surface texture of the ramp shall be obtained by coarse brooming transverse to the slope of the ramp.

The normal gutter line profile shall be maintained through the area of the ramp.

Joints shall be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking.

Care shall be taken to ensure that the surface of the detectable warnings are clean and maintains a uniform color.

The detectable warnings shall be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings shall be incidental to the corresponding detectable warning bid item.

There will be no separate payment for curb ramps. The curb ramp shall be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk bid item. The square foot area of the detectable warnings shall be included in the measured and paid for quantity of sidewalk.

The curb transitions and ramp opening shall be measured and paid for at the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used. The curb transitions and ramp opening shall be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

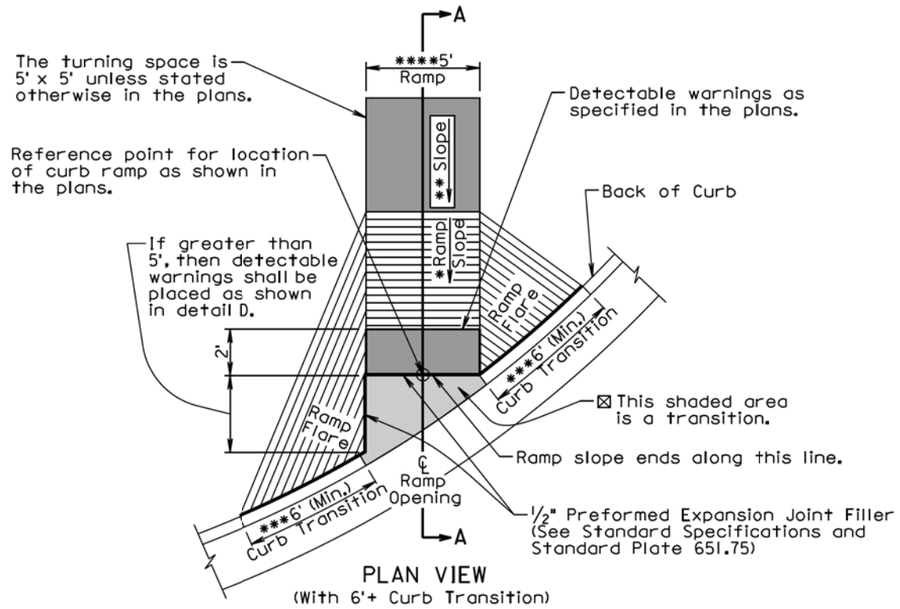
The type 1 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 1 detectable warnings including labor, equipment, materials, and incidentals shall be paid for at the contract unit price per square foot for "Type 1 Detectable Warnings".

The type 2 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding shall be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

September 6, 2013

Published Date: 2nd Qtr. 2015	SDDOT	TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP)	PLATE NUMBER 651.01
			Sheet 3 of 3

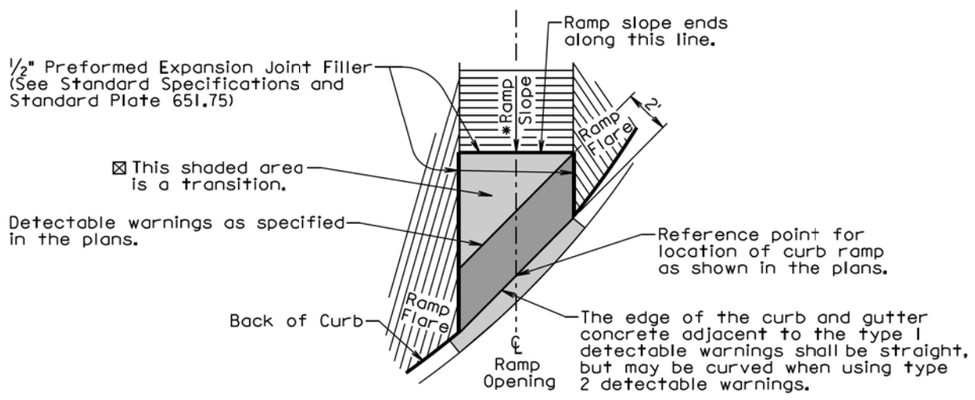
Plot Scale - 1:200
- Plotted From - trpr17192
File - ...\spnk0231\s65101_2s65101_3.dgn



PLAN VIEW
(With 6'+ Curb Transition)

⊠ The slope within the transition area shall not be steeper than a 20:1 (5%). The concrete within the transition shall be placed monolithic with the curb and gutter or fillet section concrete. The concrete thickness within the transition shall be the same as the curb and gutter or fillet section concrete thickness.

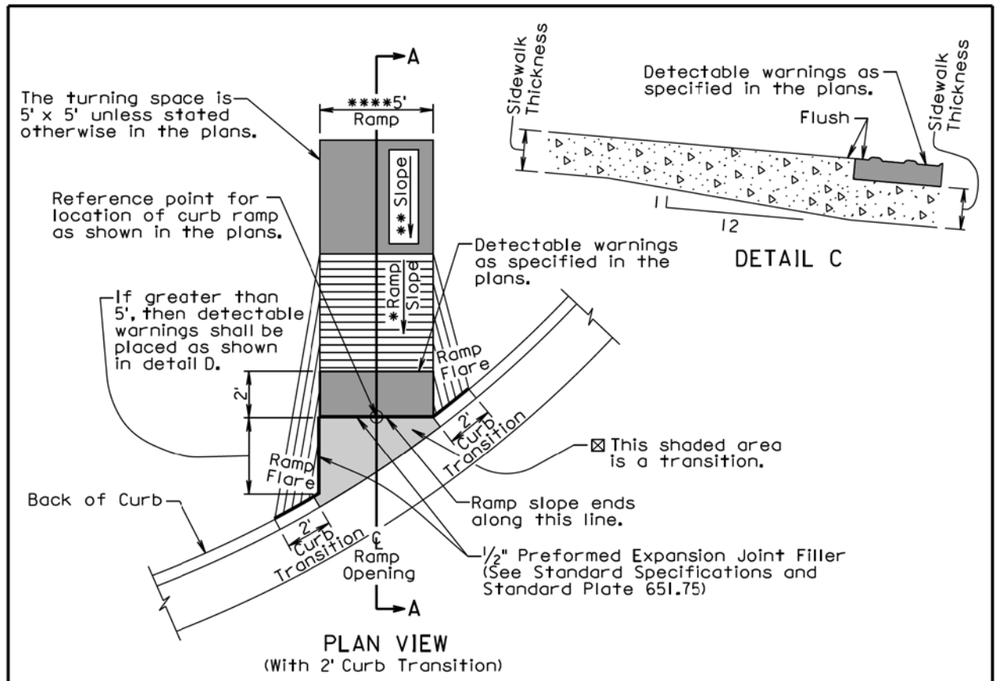
*** The curb transition shall be a minimum of 6' long, a maximum of 10' long, and the curb transition slope shall not be steeper than a 10:1 (10%) unless stated otherwise in the plans.



DETAIL D

September 6, 2013

Published Date: 2nd Qtr. 2015	SDDOT	TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)	PLATE NUMBER 651.02
			Sheet 1 of 3



DETAIL C

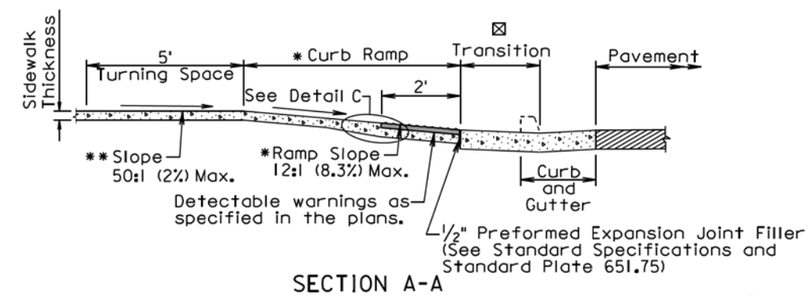
PLAN VIEW
(With 2' Curb Transition)

* The ramp slope shall be 12:1 (8.3%) maximum. The ramp length shall not exceed 15' unless stated otherwise in the plans. Ramp slopes are designed at 12:1 (8.3%) unless stated otherwise in the plans.

The cross slope of the ramp shall not be steeper than 50:1 (2%).

** The slope in the turning space shall not be steeper than a 50:1 (2%) in any direction of pedestrian travel.

**** The ramp width is 5' unless stated otherwise in the plans.



SECTION A-A

September 6, 2013

Published Date: 2nd Qtr. 2015	SDDOT	TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)	PLATE NUMBER 651.02
			Sheet 2 of 3

Plot Scale - 1:200
- Plotted From - trpr17192
File - ...\spnk023Tis65102_1s65102_2.dgn

GENERAL NOTES:

For illustrative purpose only, type I detectable warnings are shown in the drawings.

The curb ramp depicted on this standard plate may be used with a PCC fillet section, with curved curb and gutter, or with straight curb and gutter. The curb ramp shall be placed at the location stated in the plans.

Sidewalk shall not be placed adjacent to the ramp flares when a 2' curb transition is used unless shown otherwise in the plans.

* Care shall be taken to ensure a uniform grade on the ramp, free of sags and short grade changes.

Surface texture of the ramp shall be obtained by coarse brooming transverse to the slope of the ramp.

The normal gutter line profile shall be maintained through the area of the ramp.

Joints shall be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking.

Care shall be taken to ensure that the surface of the detectable warnings are clean and maintains a uniform color.

The detectable warnings shall be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings shall be incidental to the corresponding detectable warning bid item.

There will be no separate payment for curb ramps. The curb ramp shall be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk bid item. The square foot area of the detectable warnings shall be included in the measured and paid for quantity of sidewalk.

The curb transitions and ramp opening shall be measured and paid for at the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used. The curb transitions and ramp opening shall be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

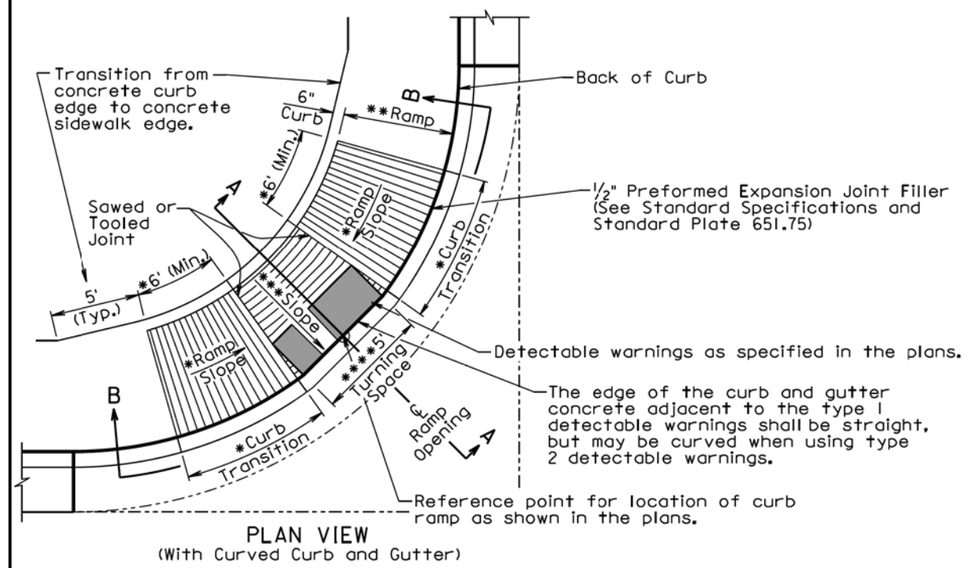
All costs for furnishing and installing the transition area at the base of the ramp shall be incidental to the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used and shall be incidental to the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

The type I detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type I detectable warnings including labor, equipment, materials, and incidentals shall be paid for at the contract unit price per square foot for "Type I Detectable Warnings".

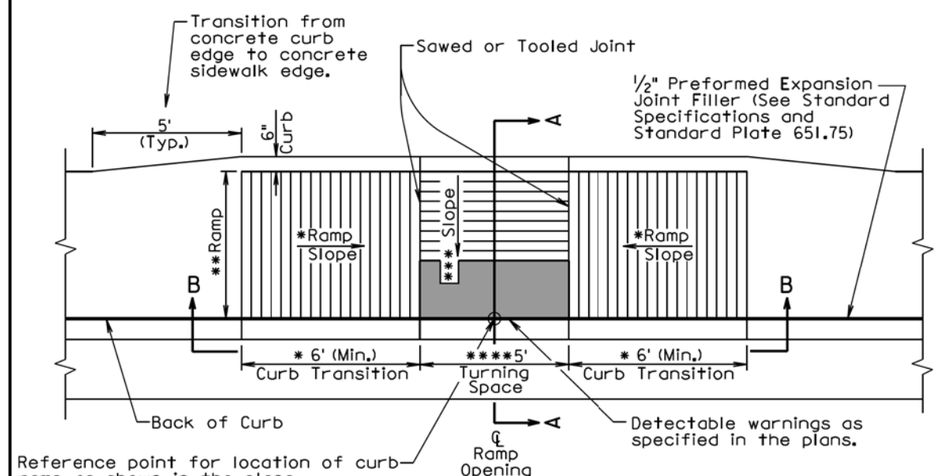
The type 2 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding shall be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

September 6, 2013

Published Date: 2nd Qtr. 2015	SDDOT	TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)	PLATE NUMBER 651.02
			Sheet 3 of 3



PLAN VIEW
(With Curved Curb and Gutter)



PLAN VIEW
(With Straight Curb and Gutter)

September 6, 2013

Published Date: 2nd Qtr. 2015	SDDOT	TYPE 3 CURB RAMP (PARALLEL CURB RAMP)	PLATE NUMBER 651.03
			Sheet 1 of 3

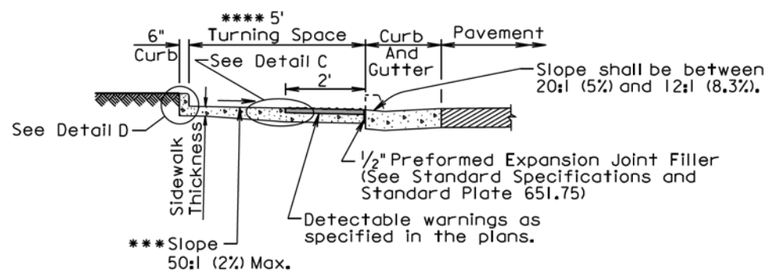
* The curb transition slope shall match the ramp slope. The ramp slope, at any location of the ramp, shall be 12:1 (8.3%) maximum. The ramp length shall not exceed 15' unless stated otherwise in the plans. Ramp slopes are designed at 12:1 (8.3%) unless stated otherwise in the plans. The minimum length of the curb transition shall be 6'.

** The ramp cross slope shall not be steeper than a 50:1 (2%) and the ramp width is 5' unless stated otherwise in the plans.

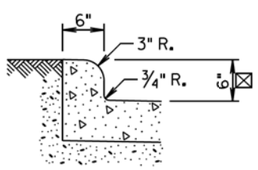
*** The slope in the turning space shall not be steeper than 50:1 (2%) in any direction of pedestrian travel.

**** The turning space is 5' x 5' unless stated otherwise in the plans.

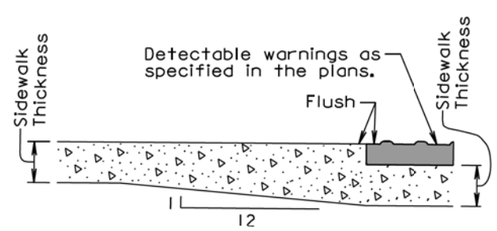
☒ The curb height shall be 6" unless stated otherwise in the plans.



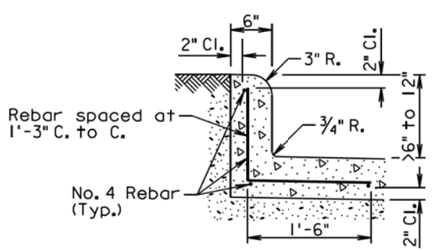
SECTION A-A



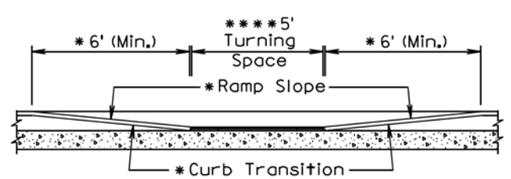
DETAIL D



DETAIL C



DETAIL D
(Use this detail when the curb height is greater than 6" and less than 12")



SECTIONAL VIEW B-B

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Published Date: 2nd Qtr. 2015	SDDOT	TYPE 3 CURB RAMP (PARALLEL CURB RAMP)	PLATE NUMBER 651.03
			Sheet 2 of 3

GENERAL NOTES:

For illustrative purpose only, type 1 detectable warnings are shown in the drawings.

For illustrative purpose only, a PCC fillet section is shown in one of the drawings. The curb ramp depicted on this standard plate may be used with a PCC fillet section, with curved curb and gutter, or with straight curb and gutter.

The curb ramp shall be placed at the location stated in the plans.

Sidewalk adjacent to the curb ramp shall be as shown in the plans.

Care shall be taken to ensure a uniform grade on the ramp, free of sags and short grade changes.

Surface texture of the ramp shall be obtained by coarse brooming transverse to the slope of the ramp.

The normal gutter line profile shall be maintained through the area of the ramp.

Joints shall be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking (see plan view for joint location).

Care shall be taken to ensure that the surface of the detectable warnings are clean and maintains a uniform color.

The detectable warnings shall be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings shall be incidental to the corresponding detectable warning bid item.

When curb height is greater than 6" and less than 12", reinforcing steel is required in accordance with the detail on sheet 2 of 3. The reinforcing steel shall conform to ASTM A615, Grade 60. Cost for furnishing and installing the reinforcing steel shall be incidental to the contract unit price per square foot for the corresponding concrete sidewalk bid item.

There will be no separate payment for curb ramps. The curb ramp shall be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk bid item. The square foot area of the detectable warnings and the curb along the short radius shall be included in the measured and paid for quantity of sidewalk.

The curb transitions and ramp opening shall be measured and paid for at the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used. The curb transitions and ramp opening shall be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

The type 1 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 1 detectable warnings including labor, equipment, materials, and incidentals shall be paid for at the contract unit price per square foot for "Type 1 Detectable Warnings".

The type 2 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding shall be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

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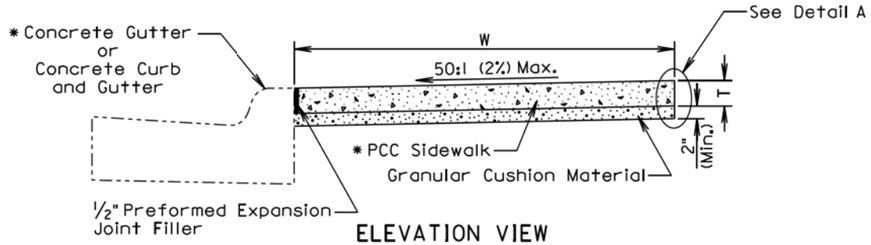
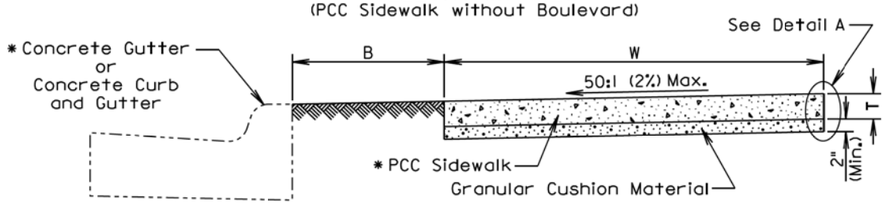
Plot Scale - 1:200
- Plotted From - tpri17192
File - ...\spnk0231Ts65103_2s65103_3.dgn

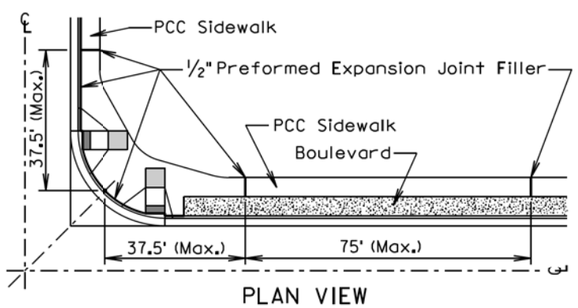


ELEVATION VIEW
(PCC Sidewalk without Boulevard)



ELEVATION VIEW
(PCC Sidewalk with Boulevard)

B Width of boulevard as specified in the plans.
T Thickness of PCC sidewalk as specified in the plans.
W Width of PCC sidewalk as specified in the plans.
* Type as specified in the plans.



PLAN VIEW

GENERAL NOTES:

The PCC sidewalk shall be constructed in accordance with Section 651 of the Standard Specifications.

The maximum length between expansion joints in PCC sidewalk is 75 feet.

PCC sidewalk placed adjacent to intersection of roadways shall have an expansion joint placed transversely a maximum of 37.5 feet from the intersection. See PLAN VIEW.

An expansion joint in PCC sidewalk shall consist of a ½ inch thick preformed expansion joint filler material placed full depth and width of the PCC sidewalk.

** Large areas of PCC pavement adjacent to PCC sidewalk may require a different joint treatment than shown in the detail. If a different joint detail is necessary, plans will contain the joint detail and the Contractor shall construct the joint treatment in accordance with the plans.

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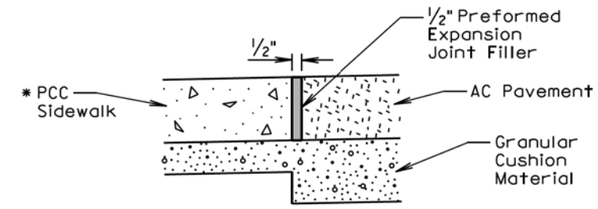
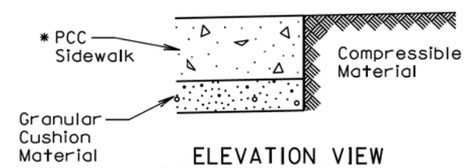
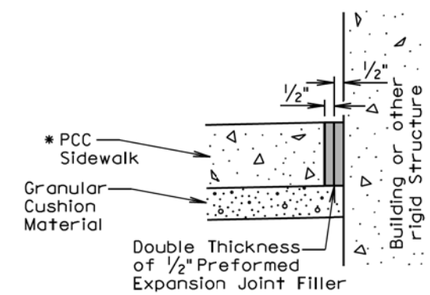
			Sheet 1 of 2



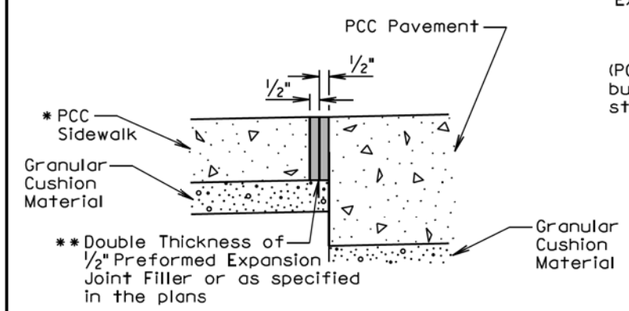
ELEVATION VIEW
(PCC sidewalk adjacent to asphalt concrete pavement)



ELEVATION VIEW
(PCC sidewalk adjacent to earthen material, landscape rock, or other compressible materials)



ELEVATION VIEW
(PCC sidewalk adjacent to building or other rigid structure)



ELEVATION VIEW
(PCC sidewalk adjacent to PCC pavement)

Detail A
(Use Appropriate Detail(s))

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Published Date: 2nd Qtr. 2015	SDDOT	PCC SIDEWALK	PLATE NUMBER 651.75
			Sheet 2 of 2