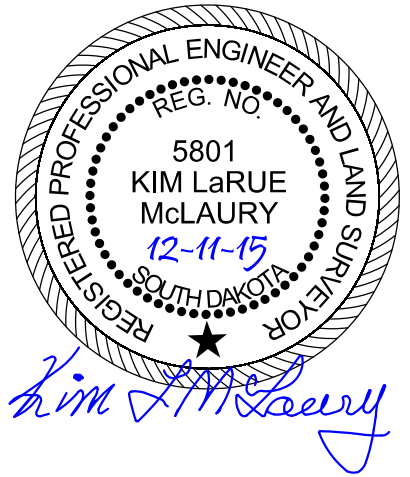


PROJECT



P SRTS(38)

COURT STREET GROSS LENGTH	1787 FEET	0.338 MILES
DUPONT STREET GROSS LENGTH	1082 FEET	0.205 MILES

STORM WATER PERMIT
 Major Receiving
 Body of Water: Missouri River
 Area Disturbed: 0.88 Acres
 Total Project Area: 1.5 Acres
 Approx. Begin Lat/Long: 42.6774, -96.6863



Plans Prepared by:
McLaury Engineering, Inc.
 Elk Point, South Dakota



South Dakota
 Department of Transportation
 Pierre, South Dakota

SCALES

PLAN	COURT STREET	1"=40'
	DUPONT STREET	1"=40'
PROFILE	HORIZONTAL:	1"=40'
	VERTICAL:	1"=10'
CROSS SECTIONS	HORIZONTAL:	1"=20'
	VERTICAL:	1"=10'

BEGIN P SRTS(38)

Approximately 542' East and 435' South of the Northwest corner of Section 30-T91N-R49W.

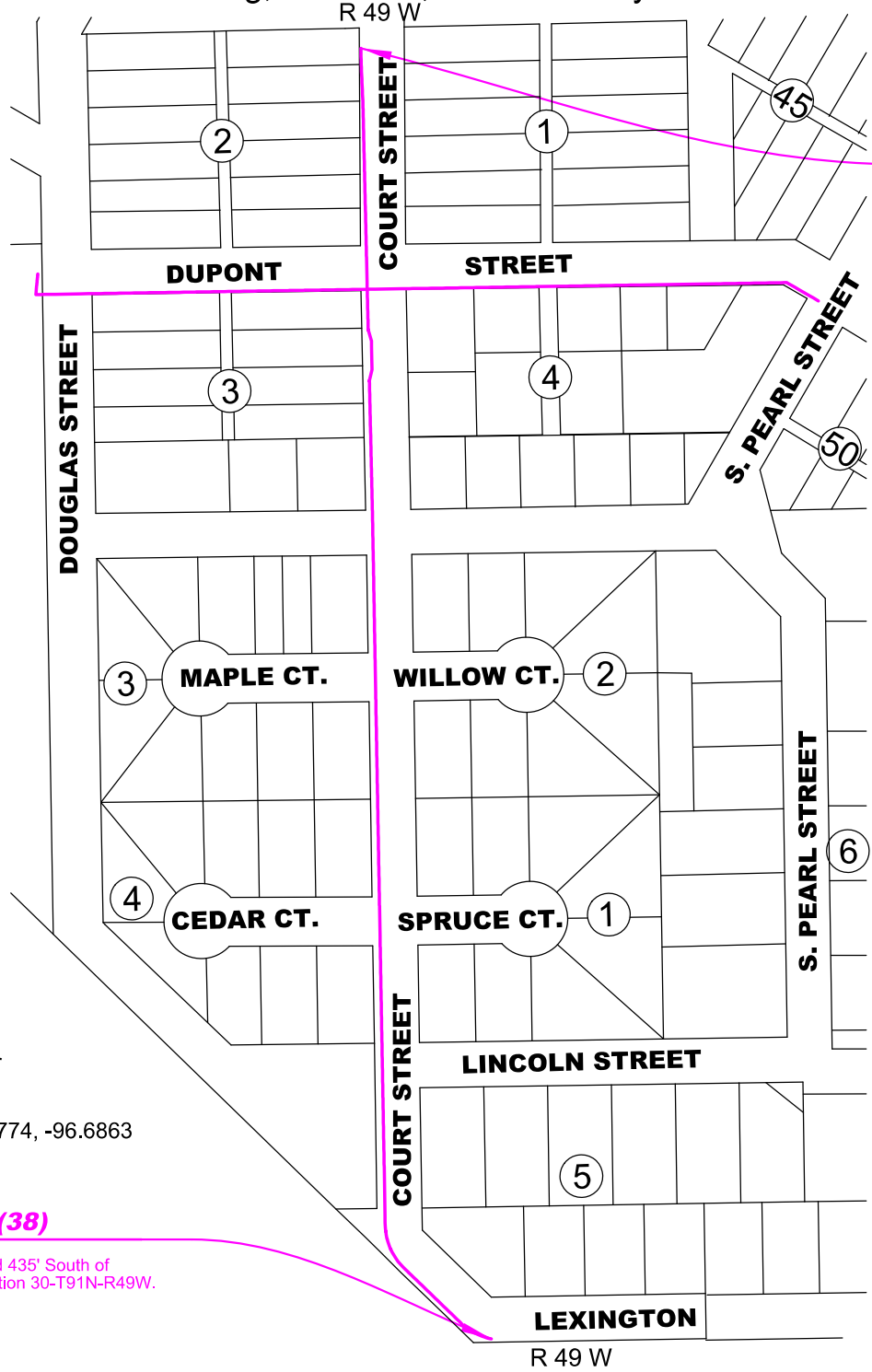
STATE OF SOUTH DAKOTA
 DEPARTMENT OF TRANSPORTATION
 PLANS FOR PROPOSED
PROJECT P SRTS(38)
PCN 04NW
CITY OF ELK POINT
SOUTH DAKOTA
 Grading, Sidewalk, and Driveways

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	1	65

Plotting Date: April 28, 2015 Rev 12/11/15 MDN

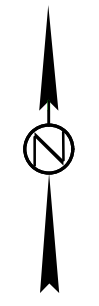
INDEX OF SHEETS

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END P SRTS(38)

Approximately 369' East and 1283.5' North of the Northwest corner of Section 30-T91N-R49W.



Estimate of Quantities

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	0.272	Mile
009E3220	Reestablish Property Corner	12	Each
100E0020	Clear and Grub Tree	21	Each
100E0100	Clearing	Lump Sum	LS
110E0010	Clear and Grub Stump	1	Each
110E0600	Remove Fence	173	Ft
110E1100	Remove Concrete Pavement	32.6	SqYd
110E1110	Remove Concrete Approach Pavement	106.6	SqYd
110E1130	Remove Concrete Driveway Pavement	102.3	SqYd
110E1140	Remove Concrete Sidewalk	93.1	SqYd
110E7802	Remove Fence for Reset	59	Ft
120E0010	Unclassified Excavation	632	CuYd
230E0010	Placing Topsoil	329	CuYd
250E0020	Incidental Work, Grading	Lump Sum	LS
260E1010	Base Course	20.0	Ton
380E1000	6" Miscellaneous PCC Pavement	31.5	SqYd
380E3020	6" PCC Driveway Pavement	157.5	SqYd
380E3520	6" PCC Approach Pavement	84.8	SqYd
450E3002	18" RCP Arch Class 2, Furnish	30	Ft
450E3010	18" RCP Arch, Install	30	Ft
450E4500	18" RCP Arch Flared End, Furnish	3	Each
450E4501	18" RCP Arch Flared End, Install	3	Each
451E6080	Adjust Water Valve Box	3	Each
464E0200	Controlled Density Fill	2.6	CuYd
620E0050	Type 5 Right-Of-Way Fence	173	Ft
620E1020	2 Post Panel	1	Each
620E4100	Reset Fence	49	Ft
632E3520	Remove, Salvage, Relocate, and Reset Traffic Sign	5	Each
633E1430	Pavement Marking Paint, 24" White	477	Ft
633E1440	Pavement Marking Paint, Area	11	SqFt
634E0100	Traffic Control Signs	192	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
651E0040	4" Concrete Sidewalk	12314.9	SqFt
651E0060	6" Concrete Sidewalk	1188.4	SqFt
651E3000	Grinding Miscellaneous Concrete	69.9	SqFt
651E7000	Type 1 Detectable Warnings	150	SqFt
730E0206	Type D Permanent Seed Mixture	176	Lb
731E0100	Fertilizing	851	Lb
732E0250	Fiber Mulching	1724	Lb
734E0103	Type 3 Erosion Control Blanket	31	SqYd
734E0604	High Flow Silt Fence	100	Ft
734E0620	Repair Silt Fence	25	Ft
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	12	Ft
734E5010	Sweeping	5	Hour
735E1340	4' Coniferous Evergreen, Furnish and Plant	7	Each
735E2220	2" Caliper Deciduous Tree, Furnish and Plant	5	Each
900E1310	Concrete Washout Facility	1	Each
900E5153	Mulch Ring	12	Each

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

ENVIRONMENTAL COMMITMENTS

An Environmental Commitment is a measure that SDDOT commits to implement in order to avoid, minimize, and/or mitigate a real or potential environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency mentioned below with permitting authority can influence a project if perceived environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office. The environmental commitments associated with this project are as follows:

COMMITMENT C: WATER SOURCE

The Contractor shall not withdraw water with equipment previously used outside the State of South Dakota without prior approval from the SDDOT Environmental Office. Thoroughly wash all construction equipment before entering South Dakota to reduce the risk of invasive species introduction into the project vicinity.

The Contractor shall not withdraw water directly from streams of the James, Big Sioux, and Vermillion watersheds without prior approval from the SDDOT Environmental Office.

Action Taken/Required:

The Contractor shall obtain the necessary permits from the regulatory agencies such as the Department of Environment and Natural Resources (DENR) and the United States Army Corps of Engineers (COE) prior to executing water extraction activities.

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	2	65

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor shall furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the State ROW.

The waste disposal site(s) shall be managed and reclaimed in accordance with the following from the General Permit for Highway, Road, and Railway Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Environment and Natural Resources.

The waste disposal site(s) shall not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements shall apply:

- Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials shall be buried in a trench completely separate from wood debris. The final cover over the construction and/or demolition debris shall consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the State ROW shall be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor shall control the access to waste disposal sites not within the State ROW through the use of fences, gates, and placement of a sign or signs at the entrance to the site stating "No Dumping Allowed".

- Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period of time not to exceed the duration of the project. Prior to project completion, the waste shall be removed from view of the ROW or buried and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) shall be incidental to the various contract items.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historical Preservation Office (SHPO or THPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require review of cultural resources impacts. This work includes, but is not limited to: staging areas, borrow sites, waste disposal sites, and all material processing sites.

The Contractor shall arrange and pay for a cultural resource survey and/or records search. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor shall provide ARC with the following: a topographical map or aerial view on which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor shall submit the records search or cultural resources survey report and if the location of the site is within the current geographical or historic boundaries of any South Dakota reservation to SDDOT Environmental Engineer, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3180). SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

If evidence for cultural resources is uncovered during project construction activities, then such activities shall cease and the Project Engineer shall be immediately notified. The Project Engineer will contact the SDDOT Environmental Engineer in order to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for staging areas, borrow sites, waste disposal sites, or material processing sites that affect wetlands, threatened and endangered species, or waterways. The Contractor shall provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

GRADING OPERATIONS

Water for Embankment is estimated at the rate of 10 gallons of water per cubic yard of Embankment minus Waste. No separate payment will be made for the Water for Embankment and all costs associated shall be incidental to the contract unit price per cubic yard of "Unclassified Excavation".

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.

CLEARING

Before clearing activities begin, the Contractor shall contact the Engineer to determine the limits of clearing for the project. If the trees or shrubs that are supposed to remain within the limits of work are damaged or destroyed by the Contractor, the Contractor shall replace them with the same size and type at the Contractor's expense.

Included in this bid item are the following trees:

CLEARING

32+60 - 24' R 33+36 - 27' R

CLEAR AND GRUB TREE

The Contractor shall remove the trees in the table below. All costs to completely remove and dispose of each tree and stump shall be incidental to the contract unit price per each for "Clear and Grub Tree".

If additions or reductions to the number of trees removed are ordered by the Engineer, payment shall be made at the contract unit price per each for "Clear and Grub Tree."

TABLE OF CLEAR AND GRUB TREE

6+59 - 25' L	32+74 - 23' R
7+32 - 24' L	33+15 - 30' R
9+63 - 34' L	33+15 - 25' R
9+83 - 33' L	33+34 - 30' R
12+26 - 29' L	33+34 - 24' R
12+46 - 28' L	34+35 - 31' R
15+91 - 25' L	35+98 - 25' R
31+68 - 28' R	36+27 - 27' R*
31+84 - 31' R*	37+90 - 28' R
32+08 - 30' R	38+13 - 28' R
32+26 - 26' R	38+36 - 28' R
32+33 - 27' R	

* Removed By Others

TABLE OF CLEAR AND GRUB STUMP

18+49 - 30' L



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	3	65

REV 12/11/15 MDN

SHRINKAGE FACTOR: Embankment +20%

TABLE OF EXCAVATION QUANTITIES BY BALANCES

Station to	Station	Total		**
		Excavation (CuYd)	Excavation (CuYd)	Waste (CuYd)
1+87	8+04	203	203	189
8+40	11+29	2	2	-3
11+64	16+75	28	28	5
17+05	19+86	60	60	59
30+70	35+12	4	4	0
35+61	37+48	3	3	0
37+71	41+38	3	3	0
TOTALS:		303	303	250

** The quantities for these items are for information only.

TABLE OF UNCLASSIFIED EXCAVATION

Excavation	(CuYd)
Topsoil	
	303
	329
Total:	632

PROCEDURES FOR DETERMINING UNCLASSIFIED EXCAVATION QUANTITY

Plans quantity shall be the basis of payment for Unclassified Excavation.

The Topsoil quantity in the Table of Unclassified Excavation is an estimate. The quantity of Topsoil from the cuts will be paid for twice as Unclassified Excavation, as it will be in both the Excavation and Topsoil quantities. This will be full compensation for Excavation, which includes necessary undercutting to provide space for placement of topsoil.

The Excavation quantities from individual balances and the Table of Unclassified Excavation have been reduced by the volume of in place surfacing that will be removed.

Excavation quantities for Concrete Sidewalk have not been included in the Unclassified Excavation. Excavation for the concrete sidewalk shall be incidental to the sidewalk bid item.

INCIDENTAL WORK, GRADING

The following is a list of major items of Incidental Work:

- 1.) Curb Stop Sleeves: There are a number of curb stops located in the proposed concrete. These curb stops will be required to have a White 5" PVC sleeve installed around them and shall be adjusted to approximately 0.5" below finish concrete elevation. The contractor shall take care not to damage any existing curb stops.
- 2.) Mailboxes: It is not expected that any existing mailboxes will be affected, but if due to the Contractors activities mailboxes are affected it shall be removed, safeguarded through construction, and reset at the correct height and location behind the curb and gutter following construction completion.
- 3.) Sprinklers: The Home Owner and Engineer shall locate sprinklers before construction begins. Review locations of known sprinklers on plans sheets. The Contractor shall safeguard any sprinkler systems in the ROW during construction if possible. There may be locations along the project where sprinkler systems will be encountered during construction. The Contractor shall repair any damaged sprinkler systems to the extent that the functionality of the sprinkler system is retained after the project is complete at no additional cost to the owner. Where replacement is necessary, the existing system shall be replaced with the appropriate materials. All costs associated with the repair and replacement of the sprinkler system shall be incidental the contract lump sum price for "Incidental Work, Grading."

TABLE OF INCIDENTAL WORK, GRADING

Station	to	Station	Remarks
13+42	- 20' L	13+42	- 26' L Take out 18" Arch Flared End – 1 Each
13+45	- 20' L	13+45	- 26' L Take out 18" Arch Flared End – 1 Each
13+49	- 20' L	13+49	- 26' L Take out 18" Arch Flared End – 1 Each

TABLE OF CONCRETE PAVEMENT REMOVAL

Station	to	Station	L/R	Quantity (SqYd)
3+61.8		3+67.4	L	13
13+39.5		13+50.2	L	19.6
Total:				32.6



TABLE OF CONCRETE APPROACH PAVEMENT REMOVAL

Station	to	Station	L/R	Quantity (SqYd)
14+05.6		14+21.4	L	23.2
15+73.1		15+87.8	L	22.3
38+95.7		39+37.5	R	61.1
Total:				106.6

TABLE OF CONCRETE DRIVEWAY PAVEMENT REMOVAL

Station	to	Station	L/R	Quantity (SqYd)
5+81.4		6+05.4	L	26.7
14+17.2		14+27.8	L	29.0
38+95.7		39+37.6	R	46.6
Total:				102.3

TABLE OF SIDEWALK REMOVAL

Station	to	Station	L/R	Quantity (SqYd)
14+24.0		14+35.6	L	2.7
16+23.2		16+25.7	L	1.4
17+98.1		18+02.0	L	4.4
18+59.1		19+86.0	L	65.1
31+45.3		31+49.0	L	19.5
Total:				93.1

TABLE OF GRINDING MISCELLANEOUS CONCRETE

Station	to	Station	Quantity (SqFt)
7+99.3	- 21.0' L	8+03.9	- 30.0' L 5.2
8+40.5	- 29.0' L	8+45.8	- 21.0' L 5.4
11+23.8	- 21.0' L	11+28.8	- 30.0' L 5.3
11+64.8	- 30.0' L	11+69.7	- 21.0' L 5.2
13+93.1	- 16.6' L	13+99.1	- 16.6' L 3.0
14+19.4	- 16.5' L	14+43.1	- 16.3' L 11.8
16+71.5	- 21.0' L	16+74.5	- 30.0' L 4.8
17+05.5	- 30.0' L	17+08.4	- 21.0' L 4.8
35+21.3	- 22.0' R	35+25.5	- 31.0' R 5.1
35+61.0	- 31.0' R	35+64.9	- 22.0' R 5.0
37+44.7	- 22.0' R	37+47.3	- 31.0' R 4.8
37+71.0	- 31.0' R	37+73.7	- 22.0' R 4.8
41+35.7	- 22.0' R	41+38.1	- 31.0' R 4.7
Total:			69.9

CONTROLLED DENSITY FILL FOR PIPE

Controlled density fill shall be a flowable mortar material. Materials shall be in accordance with the Specifications, except as modified below. The mix design shall be one of the following:

Material	Rate per Cubic Yard
Portland Cement Type I, II, III, or V	100 Lb
Fine Aggregate	2600 Lb
Coarse Aggregate	None
Water	60 Gal
Fly Ash, Type C	300 Lb

Or alternative mix design with CLSM (Controlled Low Strength Material):

Material	Rate per Cubic Yard
Portland Cement Type I, II, III, or V	200 Lb
Fine Aggregate	2600 Lb
Coarse Aggregate	None
Water	35 Gal
"W.R. Grace – Darafill" or approved equal	1 (3 oz.) capsule or equivalent *

* Shall be one 3 ounce capsule or equivalent CLSM performance additive (foaming admixture).

The fine aggregate shall be natural sand consisting of mineral aggregate particles conforming to the following gradation requirements:

Passing 3/8 Inch Sieve	100%
Passing No. 200 Sieve	0-10%

Both of the mix designs shown above are designed to produce a minimum compressive strength of 100 psi. The Engineer may allow adjustments to the proportion of water at the site to provide the necessary consistency of the mix.

Controlled density fill shall be contained within the required limits with sandbags or other methods approved by the Engineer.

The Contractor shall prevent the flotation or movement of the culvert due to the buoyant force from the controlled density fill until the controlled density fill hardens. Overlying surfacing materials shall not be placed sooner than four hours after placement of the controlled density fill.

All costs for furnishing and installing the controlled density fill, including sandbags, labor, materials, equipment and incidentals necessary to complete the work shall be included in the contract unit price per cubic yard for "Controlled Density Fill."

Plans quantity will be the basis for payment unless otherwise ordered by the Engineer.

Station	Quantity (CuYd)	Fill Height (between pipes)
13+43.4	1.29	20 inches
13+46.9	1.29	20 inches
Total:		2.6

CONCRETE PIPE CONNECTIONS

Pipe connections to existing pipes, manholes, junction boxes, and drop inlets shall be done by breaking a hole into the existing structure and inserting the pipe. A concrete collar shall then be poured around the pipe in the area of the connection.

When it is not possible to use a normal pipe joint (male-female ends), connections to existing pipe shall be made by placing a 2' wide by 6" thick M6 concrete collar around the outside of the connection. The concrete collar shall be reinforced with 6x6 W2.9 x W2.9 wire mesh.

All costs for constructing the concrete collars including materials and labor shall be incidental to the contract unit price per foot for the corresponding pipe bid item.

STORM SEWER

Reinforced concrete pipe may be either bell and spigot or tongue and groove. The pipe sections shall be adjoined such that the ends are fully entered and the inner surfaces are reasonably flush and even.

Lift holes in the reinforced concrete pipe shall be plugged with grout.

Gaskets and seals (mastic, waterstop, and seal wraps) shall be installed in accordance with the manufacturer's recommendations.

The cost for furnishing and installing all gaskets, mastic joint seal, waterstop seal, seal wrap, concrete collars, and for plugging the lift holes shall be incidental to the contract unit price per foot for the corresponding pipe bid item.

TABLE FOR ADJUSTMENT OF WATER VALVE BOX

Station	Adjustment
16+67.5 - 28.45' R	0.17
39+24.3 - 21.66' R	-0.13
40+29.0 - 24.54' R	-0.21



SIDEWALK

The foundation shall be excavated, shaped, and compacted to a firm, uniform bearing surface. Unsuitable foundation material shall be removed and replaced as directed. The foundation shall be thoroughly moistened immediately prior to placing concrete.

Concrete sidewalk will be paid for at the contract unit price per square foot.

Payment will be full compensation for excavation other than removal of existing sidewalk as provided for under Section 110 of the Specifications.

Payment will be full compensation for labor, equipment, tools, backfilling, furnishing and placing materials, including granular material, preformed expansion joint material and incidentals necessary, including disposal of excavation and discarded materials.

TABLE OF 4" PCC SIDEWALK

Station to	Station	Quantity (SqFt)
1+87.3 - 46.9' L	3+62.8 - 34.7' L	1076.3
3+70.7 - 23.5' L	5+81.5 - 28.0' L	830.0
6+05.6 - 28.0' L	8+03.9 - 30.0' L	1002.7
8+40.3 - 30.0' L	11+28.8 - 30.0' L	1464.3
11+64.8 - 30.0' L	13+35.3 - 28.0' L	863.9
13+54.7 - 28.0' L	13+99.1 - 21.6' L	225.9
13+37.1 - 21.3' L	15+58.7 - 28.0' L	612.3
15+88.7 - 28.0' L	16+74.5 - 30.0' L	435.4
17+05.5 - 30.0' L	18+14.9 - 28.0' L	580.9
18+26.2 - 28.0' L	18+50.7 - 28.0' L	122.6
18+59.6 - 38.0' L	18+99.1 - 28.0' L	245.3
19+15.5 - 28.0' L	19+86.0 - 28.9' L	357.6
30+73.9 - 0.2' L	30+74.1 - 1.0' L	6.2
30+72.3 - 14.9' R	30+99.3 - 29.0' L	165.4
31+33.7 - 29.0' R	31+51.5 - 29.0' R	168.7
31+45.3 - 21.56' L	31+49.0 - 21.6' R	65.7
31+66.5 - 29.0' R	32+75.9 - 29.0' R	552.8
32+87.5 - 29.0' R	33+90.9 - 29.0' R	510.8
34+23.8 - 29.0' R	35+25.5 - 31.0' R	491.0
35+61.0 - 31.0' R	37+47.3 - 31.0' R	958.5
37+71.0 - 31.0' R	38+95.7 - 29.0' R	636.9
39+37.5 - 29.0' R	41+38.1 - 31.0' R	941.7
Total:		12314.9

TABLE OF 6" PCC SIDEWALK

Station to	Station	Quantity (SqFt)
3+62.8 - 24.7' L	3+70.7 - 23.5' L	57.5
5+81.5 - 28.0' L	6+05.6 - 28.0' L	120.5
13+35.3 - 28.0' L	13+54.7 - 28.0' L	96.7
15+58.7 - 28.0' L	15+88.7 - 28.0' L	150.0
18+14.9 - 28.0' L	18+26.2 - 28.0' L	56.4
18+50.7 - 28.0' L	18+59.4 - 28.0' L	43.7
18+99.1 - 28.0' L	19+15.5 - 28.0' L	82.1
30+72.3 - 14.9' R	30+73.9 - 0.2' L	73.9
31+51.5 - 29.0' R	31+66.5 - 29.0' R	75.0
32+75.9 - 29.0' R	32+87.5 - 29.0' R	58.1
33+90.9 - 29.0' R	34+23.8 - 29.0' R	164.9
38+95.7 - 29.0' R	39+37.5 - 29.0' R	209.6
Total:		1188.4

TYPE 1 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

TABLE OF TYPE 1 DETECTABLE WARNINGS

Station to	Station	Quantity (SqFt)
7+99.1 - 23.0' L	7+99.1 - 28.0' L	10.0
8+45.7 - 23.0' L	8+45.7 - 28.0' L	10.0
11+23.8 - 23.0' L	11+23.8 - 28.0' L	10.0
11+69.8 - 23.0' L	11+69.8 - 28.0' L	10.0
16+70.8 - 23.0' L	16+70.8 - 28.0' L	10.0
17+09.1 - 23.0' L	17+09.1 - 28.0' L	10.0
30+97.3 - 24.0' R	30+97.3 - 29.0' R	10.0
31+44.6 - 10.6' L	31+49.6 - 10.6' L	10.0
31+44.6 - 22.3' R	31+49.6 - 22.3' R	10.0
31+36.1 - 24.0' R	31+36.1 - 29.0' R	10.0
32+21.0 - 24.0' R	35+21.0 - 29.0' R	10.0
35+62.2 - 24.0' R	35+65.2 - 29.0' R	10.0
37+43.7 - 24.0' R	37+43.7 - 29.0' R	10.0
37+74.6 - 24.0' R	37+74.6 - 29.0' R	10.0
41+34.7 - 24.0' R	41+34.7 - 29.0' R	10.0
Total:		150.0

BASE COURSE

Base Course shall be placed in the locations indicated on the plans, at a compacted depth of 6 inches. The bid item for Base Course is for all work associated to furnish and install the gravel in accordance with Section 260 of the Specifications.

TABLE OF GRAVEL BASECOURSE

Station to	Station	Quantity (SqFt)	Quantity (Tons)
18+14.6 - 38.0' L	18+24.5 - 38.0' L	104	3.54
18+51.1 - 38.0' L	18+59.6 - 38.0' L	83	2.82
18+98.9 - 33.0' L	19+16.2 - 33.0' L	85	2.89
30+72.5 - 0.5' R	30+71.2 - 14.6' R	18	0.61
30+83.9 - 0.9' R	30+82.2 - 16.1' R	76	2.58
31+51.5 - 24.0' R	31+66.5 - 24.0' R	97	3.32
31+51.5 - 33.5' R	31+66.4 - 33.4' R	66	2.23
32+73.6 - 34.0' R	32+85.1 - 34.0' R	58	1.97
Total:		587	19.96

TABLE OF 6" PCC APPROACH PAVEMENT

Station to	Station	Quantity (SqYd)
13+99.1 - 21.6' L	14+37.1 - 21.3' L	21.1
15+58.5 - 15.5' L	15+90.1 - 15.4' L	25.9
38+94.5 - 16.0' R	39+37.4 - 15.8' R	37.8
Total:		84.8

TABLE OF 6" PCC DRIVEWAY PAVEMENT

Station to	Station	Quantity (SqYd)
5+81.4 - 33.0' L	6+05.4 - 33.0' L	13.3
14+17.2 - 48.7' L	14+27.8 - 43.3' L	40.4
14+39.3 - 51.7' L	14+50.0 - 46.2' L	41.4
33+90.8 - 33.2' R	34+23.8 - 33.5' R	15.8
38+95.7 - 39.0' R	39+37.6 - 39.0' R	46.6
Total:		157.5

6" MISCELLANEOUS PCC PAVEMENT

Rev 12/11/15 MDN

All concrete for 6" Miscellaneous PCC Pavement shall be Class M-6 as detailed in the SDDOT Standard Specifications.

All costs for 6" Miscellaneous PCC Pavement shall be incidental to the contract unit price per SqYd for "6" Miscellaneous PCC Pavement".

TABLE OF 6" MISCELLANEOUS PCC PAVEMENT

Station to	Station	Quantity (SqYd)
3+61.9 - 27.3' L	3+67.4 - 31.6' L	6.6
13+33.4 - 16.9' L	13+56.5 - 16.8' L	14.3
13+39.0 - 34.6' L	13+51.3 - 34.6' L	10.6
Total:		31.5

TABLE OF CONSTRUCTION STAKING

(See Special Provision for Contractor Staking)

Roadway and Description	Begin Station	End Station	Number of Lanes	Length (Ft)	Grade Staking			
					Length (Mile)	Lane Factor	*Sets of Stakes	**Grade Staking Quantity (Mile)
Court Street	1+87	19+86	1	1,799	0.341	0.5	1	0.171
Dupont Street	30+70	41+38	1	1068	0.202	0.5	1	0.101
Totals:								0.272

* 1 = Blue Top Stakes Only (Sidewalk)

** Grade Staking Quantity = (Length) x (Lane Factor) x (Sets of Stakes)

REESTABLISH PROPERTY CORNER

12 possible locations have been identified, exact locations will be determined in the field.

The Contractor shall have a Licensed Land Surveyor in the State of South Dakota Reestablish Property Corners in 12 locations. The Land Surveyor shall preserve the location and reestablish all corners in accordance with South Dakota DOT Survey Manual, Chapter 8 Section J – Marking of Public Land Corners.

<http://sddot.com/business/design/docs/survey/smchap8.pdf>

TABLE OF REESTABLISH PROPERTY CORNERS

Station	Type	Northing	Easting
2+03.4 - 37.1' L	5/8" Rebar	15510404.954	2262376.119
13+69.7 - 30.2' L	5/8" Rebar	15511512.607	2262230.954
16+61.6 - 30.1' L	Rebar W/Cap - GFF	15511804.470	2262224.224
17+21.6 - 29.5' L	Rebar W/Cap - 3236	15511864.432	2262223.431
18+96.5 - 29.9' L	Rebar W/Cap - 3236	15512039.319	2262218.970
20+21.4 - 30.0' L	5/8" Rebar	15512164.125	2262215.955
35+70.8 - 30.1' R	5/8" Rebar	15511805.327	2262284.861
36+61.0 - 30.0' R	5/8" Rebar	15511806.836	2262374.976
37+46.9 - 30.0' R	Rebar W/Cap - 3236	15511808.236	2262460.914
38+54.9 - 30.0' R	Rebar W/Cap - 3236	15511809.935	2262568.933
40+17.1 - 30.0' R	Rebar W/Cap - 3236	15511812.521	2262731.101
41+25.6 - 30.0' R	Rebar W/Cap - 3236	15511795.177	2262818.090



Rev 12/11/15 MDN

PLACING TOPSOIL

The thickness will be approximately 4 inches within the right-of-way and 6 inches on temporary easements. The topsoil thickness from Station 9+84.3 to Station 11+28.8 shall be approximately 8 inches.

The estimated amount of topsoil to be placed is 329 CuYd.

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:

<i>Glomus intraradices</i>	25%
<i>Glomus aggregatu</i>	25%
<i>Glomus mosseae</i>	25%
<i>Glomus etunicatum</i>	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. All costs of inoculating the seed shall be incidental to the contract unit price per pound for the corresponding permanent seed mixture.

The mycorrhizal inoculum shall be from the list below or an approved equal:

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

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 from the list below or an approved equal:

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

DRILLS

In addition to the drills specified in Section 730 of the Specifications, other types of drills including no-till drills will be allowed as long as they have baffles, partitions, agitators, or augers which keep the seed distributed throughout the seed box and the seed is planted at a depth of 1/4" to 1/2".

PERMANENT SEEDING

The areas to be seeded consist of all newly graded areas within the project limits except for the top of roadways and other surfacing.

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



FIBER MULCHING

Fiber mulch shall be applied in a separate operation following permanent seeding.

Fiber mulch shall be applied at the rate of 3000 pounds per acre.

The Contractor shall allow the fiber mulch to cure a minimum of 18 hours prior to watering or any storm event to ensure proper cohesion between the soil and fiber particles.

All costs for the additional tackifier added to the fiber mulch including labor, equipment, and materials shall be incidental to the contract unit price per pound for "Fiber Mulching".

The fiber mulch provided shall be from the approved product list. The approved product list for fiber mulch may be viewed at the following internet site:

<http://sddot.com/business/certification/products/Default.aspx>

HIGH FLOW SILT FENCE

The high flow silt fence fabric provided shall be from the approved product list. The approved product list for high flow silt fence may be viewed at the following internet site:

<http://sddot.com/business/certification/products/Default.aspx>

High flow silt fence shall be placed at the locations noted in the table and at locations that will minimize siltation of adjacent streams, lakes, dams, or drainage areas as determined by the Engineer during construction. Refer to Standard Plate 734.05 for details.

TABLE OF HIGH FLOW SILT FENCE

Station	L/R	Location	Quantity (Ft)
1+91 to 2+00	L	Across Interstate Ditch	50
3+56 to 3+65	L	Across Drainage Channel	20
13+33 to 13+61	L	Across Drainage Channel	30
Total:			100

EROSION CONTROL BLANKET

Erosion control blanket shall be installed at the locations noted in the table and at locations determined by the Engineer during construction.

The erosion control blanket provided shall be from the approved product list. The approved product list for erosion control blanket may be viewed at the following internet site:

<http://sddot.com/business/certification/products/Default.aspx>

The Contractor shall install erosion control blanket according to the manufacturer's installation instructions.

TABLE OF EROSION CONTROL BLANKET

Station to	Station	L/R	Location	Type	Quantity (SY)
13+33	13+61	L	Drainage Channel	3	31
Total Type 3 Erosion Control Blanket:					31

SEDIMENT CONTROL AT TYPE S REINFORCED CONCRETE DROP INLETS

The sediment control device provided shall be from the list shown below. Refer to Standard Plate 734.11 for details.

Product	Manufacturer
Dandy Curb	Dandy Products Inc. Dublin, OH Phone: 1-800-591-2284 www.dandyproducts.com
Gutterbuddy	ACF Environmental Richmond, VA Phone: 1-800-448-3636 www.acfenvironmental.com
SS-300	Silt-Saver, Inc. Conyers, GA Phone: 1-888-382-7458 www.siltsaver.com
Curb Inlet Guard	ECTEC Environmental Systems LLC Alameda, CA Phone: 1-866-521-0724 www.ertecsystems.com

TABLE OF SEDIMENT CONTROL AT TYPE S REINFORCED CONCRETE DROP INLETS

Station	L/R	Clear Opening Width (Ft)	Quantity* (Ft)
41+15.9	R	10	12
Total:			12

* Quantity shown is the minimum length required and shall be the basis of payment.

STREET SWEEPING

Vehicle tracking of sediment from the construction site shall be minimized. Street sweeping shall be used if erosion and sediment control best management practices are not adequate to prevent sediment from being tracked onto the street.

The Contractor shall use a pickup broom having integral self-contained storage to clean the roadway. The pickup broom used shall be a minimum of 6 feet wide and have working gutter brooms.

At a minimum, sweeping will be required:

1. Prior to opening any sidewalk to pedestrian traffic or roadway to vehicular traffic.
2. At the end of each day in which sediment has been tracked into streets open to traffic

All costs for cleaning the roadway with a pickup broom shall be incidental to the contract unit price per hour for "Sweeping".

CONCRETE WASHOUT FACILITY

The Contractor shall install Concrete Washout Facilities as necessary for capture of all wasted concrete and washout water dumped at the construction site. Locations of Concrete Washout Facilities shall be coordinated with and approved by the Engineer during construction.

All costs for furnishing, installing, and maintaining the washout facility, as well as removal of concrete and washout facility shall be incidental to the contract unit price per each for "Concrete Washout Facility".



GENERAL PLANTING NOTES

All trees shall conform to or exceed minimum quality standards as defined by the American Nursery and Landscaping Association, current edition of American Standard for Nursery Stock, and shall be purchased from a Landscape Nursery. Trees furnished shall be of the same genus, species, cultivar, and size as specified in the plans. Species and variety may be substituted only by the approval of the Engineer. Each tree shall have an identification label.

All trees shall bear the same relationship to the finished grade as the plant's original grade before digging. All trees shall be planted in accordance with all the drawings and specifications included in the plans.

Planting locations for each individual species shall be identified prior to planting. Location shall be approved by the Engineer prior to installation.

All trees shall be fertilized.

Within 2 hours after being planted, trees shall be watered to thoroughly saturate the backfill soil as this provides settlement and filling of voids in the backfill.

As soon as the initial planting is completed, the Engineer shall visually inspect trees for health, vigor, and condition, and shall at that time accept or reject them.

The Contractor shall provide a one year warranty for all trees. After one year from initial planting, the Engineer shall make an inspection and dead, unhealthy, or otherwise not acceptable trees shall be replaced by the Contractor at no additional cost to the State.

All costs for furnishing, handling, storing, fertilizing, and planting the trees including the materials, equipment, labor, preparation of the ground, initial watering, clean up of the planted areas, and the warranty, shall be incidental to the contract unit price per each for the corresponding "Tree, Furnish and Plant" bid item.

The exact locations for tree planting shall be determined by the home owner and the Engineer in the field. Generally, trees shall be planted at their original location or as near as practicable to their original locations as the completed project related work allows.

TABLE OF TREE INSTALLATION

Station	COMMON NAME	BOTANICAL NAME	SIZE
6+59.2 - 33.0' L	American Linden	Tilia americana	2" Caliper
7+32.4 - 33.0' L	Austrian Pine	Pinus nigra	4'
9+63.4 - 38.0' L	Colorado Spruce	Picea pungens	4'
9+83.1 - 38.0' L	Colorado Spruce	Picea pungens	4'
12+26.3 - 33.0' L	Sienna Glen Maple	Acer freemanii 'Sienna'	2" Caliper
12+45.7 - 33.0' L	Colorado Spruce	Picea pungens	4'
34+34.6 - 34.0' R	American Linden	Tilia americana	2" Caliper
35+97.7 - 34.0' R	Sienna Glen Maple	Acer freemanii 'Sienna'	2" Caliper
36+26.7 - 34.0' R	Valley Forge American Elm	Ulmus americana 'Valley Forge'	2" Caliper
37+90.3 - 34.0' R	Colorado Spruce	Picea pungens	4'
38+13.0 - 34.0' R	Colorado Spruce	Picea pungens	4'
38+36.4 - 34.0' R	Colorado Spruce	Picea pungens	4'

MULCH RING

The 12 trees to be installed shall receive a mulch ring with a minimum diameter of 4 feet and a minimum thickness of 4 inches placed around each individual tree.

All costs for furnishing, handling, and placing the mulch rings including the materials, equipment, labor, and incidentals necessary shall be incidental to the contract unit price per each for "Mulch Ring".

PAVEMENT MARKING

The pavement marking material shall be as defined in Section 980 and Section 981 of the Specifications.

REMOVE, SALVAGE, RELOCATE AND RESET PERMANENT SIGNS

The Contractor shall remove, salvage, relocate, and reset signs as indicated in the Sign Remove and Reset Table.

The Contractor shall replace in kind any signs, supports, support bases or related hardware lost or damaged during the time the signs were removed, salvaged, stockpiled and reset. Any replacement materials shall be in kind and at the Contractor's expense.

To complete the project sign work, resetting of signs shall be at their original location or as near as practicable to their original locations as completed project related work allows.



TABLE OF FENCE QUANTITIES

STATE OF
SOUTH
DAKOTA

PROJECT
P SRTS (38)

SHEET
11

TOTAL
SHEETS
65

Station to Station	Side (L/R)	Right-of-Way Fence		Post Panels	Wood Privacy Fence														
		Remove Fence (Ft)	Type 5 Fence (Ft)	2 Post (Each)	Remove Fence For Reset (Ft)	Reset Fence (Ft)													
2+11.2	L			1															
2+11.2	L	173	173																
36+61.5	R				59	49													
TOTALS:		173	173	1	59	49													

Post Type and Sequence:

Right-of-way fence shall be constructed using alternate wood and steel posts except as noted.

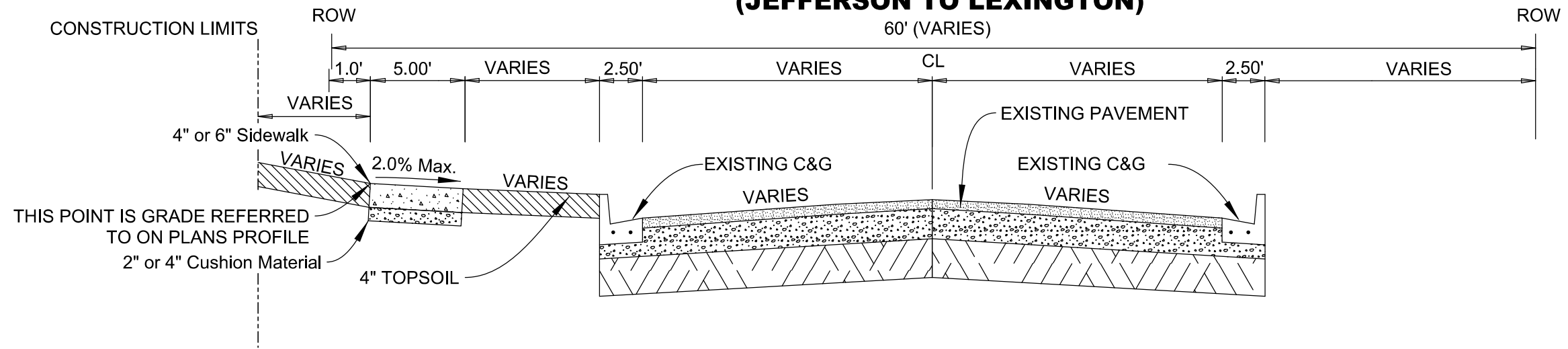
Reset Fence:
5 feet of fence will be removed from the East and West sides.



TYPICAL GRADING

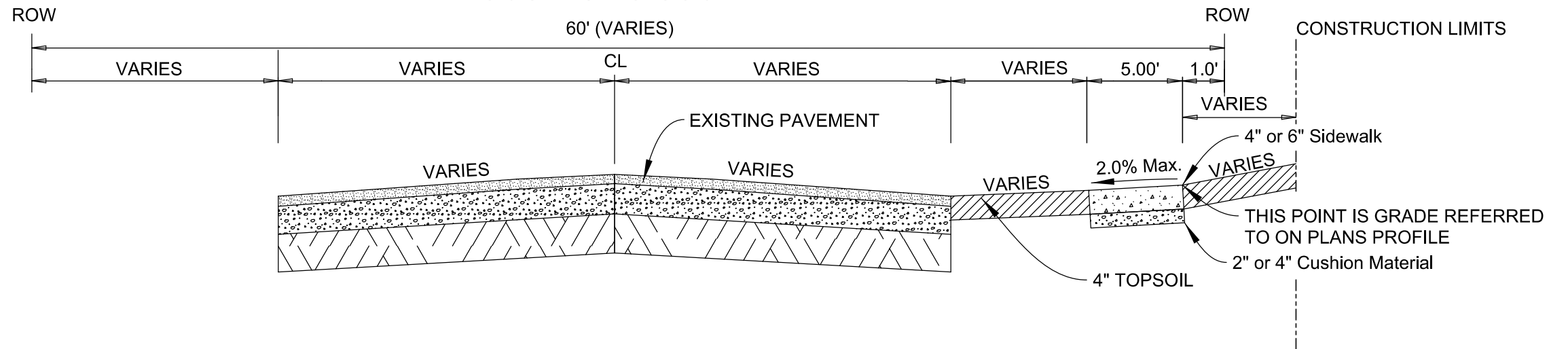
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	12	65

COURT STREET STA 1+93.7 TO 19+86.0 (JEFFERSON TO LEXINGTON)

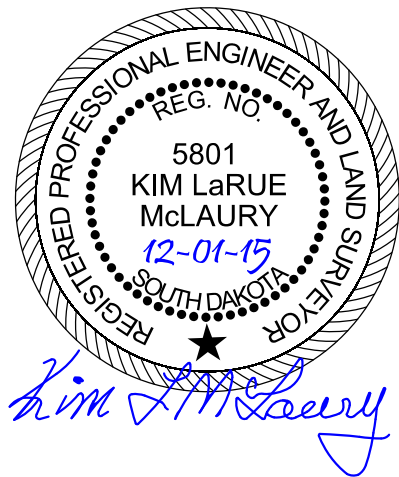


NOTE:
2" Cushion Material for 4" Sidewalk
4" Cushion Material for 6" Sidewalk

DUPONT STREET STA 30+70.7 TO STA 35+25.5 DOUGLAS TO COURT



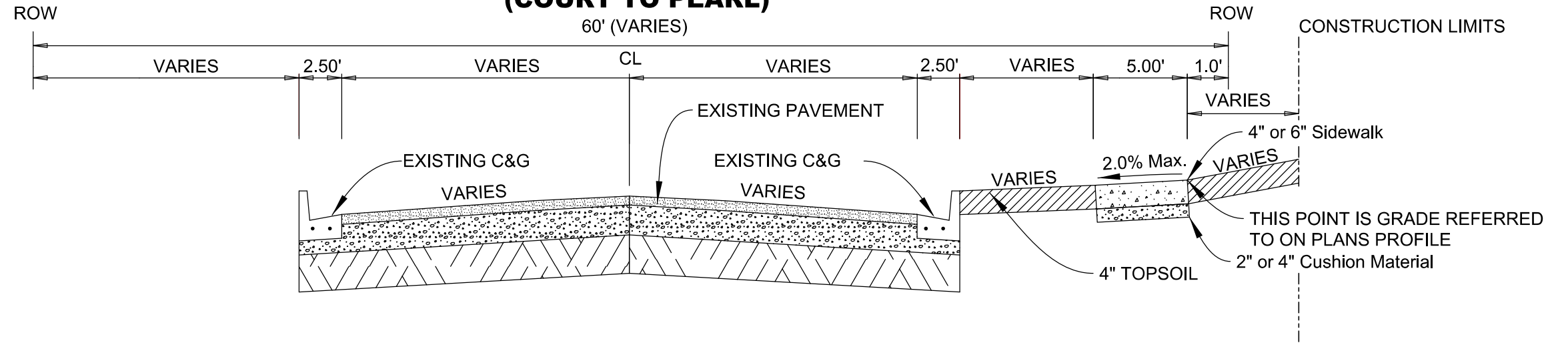
NOTE:
2" Cushion Material for 4" Sidewalk
4" Cushion Material for 6" Sidewalk



TYPICAL GRADING

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	13	65

DUPONT STREET STA 35+61.0 TO 41+38.1 (COURT TO PEARL)



NOTE:
2" Cushion Material for 4" Sidewalk
4" Cushion Material for 6" Sidewalk



HORIZONTAL ALIGNMENT DATA

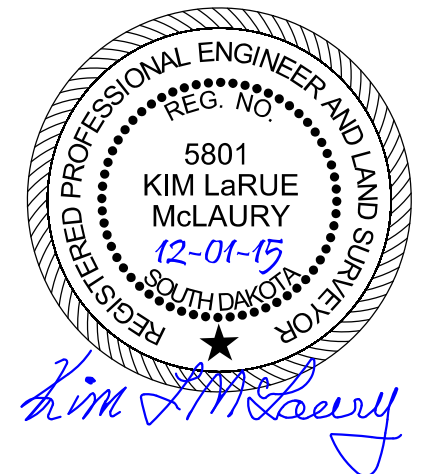
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	14	65

COURT STREET

Type	Station		Northing	Easting
POB	0+00.00		15510438.451	2262592.660
		TL= 181.47 S 89°04'33" W		
PC	1+81.47		15510435.524	2262411.209
PI	2+04.64	R= 56 Delta = 44°56'58" R	15510435.150	2262388.045
PT	2+25.41		15510451.250	2262371.387
		TL= 105.95 N 45°58'29" W		
PC	3+31.36		15510524.881	2262295.207
PI	3+54.52	R= 56 Delta = 44°56'55" R	15510540.981	2262278.550
PT	3+75.29		15510564.144	2262278.135
		TL= 949.03 N 1°01'34" W		
PI	13+69.39		15511513.020	2262261.139
		TL= 352.24 N 1°20'07" W		
PI	17+21.64		15511865.167	2262252.931
		TL= 305.95 N 1°20'07" W		
PI	20+27.58		15512171.029	2262245.802
		TL= 68.24 N 30°02'47" E		
POE	20+95.82		15512230.099	2262279.970
		TL= 305.95 N 1°20'07" W		
POE	A 20+95.82		15512230.099	2262279.970
		TL= 68.24 N 30°02'47" E		

DUPONT STREET

Type	Station		Northing	Easting
POB	30+00.00		15511826.384	2261713.623
		TL= 1080.76 N 89°05'28" E		
PI	40+80.76		15511843.527	2262794.251
		TL= 104.64 S 60°03'36" E		
POE	41+85.41		15511791.000	2262884.931



CONTROL DATA

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	15	65

HORIZONTAL AND VERTICAL CONTROL POINTS

POINT	STATION & OFFSET	DESCRIPTION	NORTHING	EASTING	ELEVATION
CP1	3+53.97 - 27.70' R	PROPERTY CORNER - NE COURT AND LEXINGTON	15510554.1600	2262308.0410	1121.3200
CP2	6+59.22 - 29.81' L	PROPERTY CORNER - 5/8" REBAR	15510802.4230	2262244.0570	1121.8100
CP3	13+69.69 - 30.19' L	PROPERTY CORNER - 5/8" REBAR	15511512.6070	2262230.9540	1123.6300
CP4	16+61.63 - 30.11' L	PROPERTY CORNER - SW DUPONT AND COURT	15511804.4700	2262224.2240	1125.3700
CP5	18+96.53 - 29.89' L	PROPERTY CORNER - SE 501 COURT	15512039.3190	2262218.9700	1127.5700
CP6	20+21.38 - 30.00' L	PROPERTY CORNER - 5/8" REBAR	15512164.1250	2262215.9550	1126.9700
CP7	33+30.34 - 30.00' L	PROPERTY CORNER - 5/8" REBAR	15511861.6200	2262043.4420	1125.7100
CP8	35+70.83 - 30.11' R	PROPERTY CORNER - 5/8" REBAR	15511805.3270	2262284.8610	1125.1200
CP9	37+46.94 - 30.00' R	PROPERTY CORNER - SW DUPONT AND PARK PLACE	15511808.2360	2262460.9410	1124.5100
CP10	40+17.13 - 30.00' R	PROPERTY CORNER - NW HUBER TRACT 8	15511812.5210	2262731.1010	1124.5500
CP11	41+85.41 - 30.00' R	PROPERTY CORNER - SE PEARL AND DUPONT	15511765.3030	2262869.9580	1123.6000



The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System, South Zone (NAD 83/2007); Geoid 09; SF=0.99993757
The elevations shown on this sheet are based on NAVD 88.

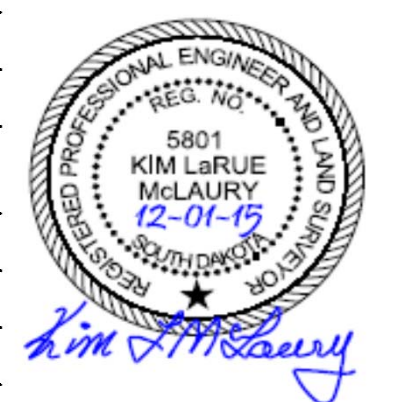
EXISTING TOPOGRAPHY SYMBOLOGY AND LEGEND

Anchor		Information Sign One Post		Satellite Dish	
Antenna		Information Sign Two Post		Septic Tank	
Approach		Interstate Close Gate		Shrub Tree	
Assumed Corner		Iron Pin		Sidewalk	
Azimuth Marker		Irrigation Ditch		Sign Face	
Bbq Grill/ Fireplace		Lake Edge		Sign Post	
Bearing Tree		Lawn Sprinkler		Slough Or Marsh	
Bench Mark		Mailbox		Spring	
Box Culvert		Manhole Electric		Stream Gauge	
Bridge		Manhole Gas		Street Marker	
Brush		Manhole Misc		Telephone Fiber Optics	
Buildings		Manhole Sanitary Sewer		Telephone Junction Box	
Bulk Tank		Manhole Storm Sewer		Telephone Pole	
Cattle Guard		Manhole Telephone		Television Cable Jct Box	
Cemetery		Manhole Water		Television Tower	
Centerline		Merry-Go-Round		Test Wells/Bore Holes	
Cistern		Microwave Radio Tower		Traffic Signal	
Clothes Line		Misc. Property Corner		Trash Barrel	
Commercial Sign Double Face		Misc. Post		Tree Belt	
Commercial Sign One Post		Overhang Or Encroachment		Tree Coniferous	
Commercial Sign Overhead		Overhead Utility Line		Tree Deciduous	
Commercial Sign Two Post		Parking Meter		Tree Stumps	
Concrete Symbol		Pipe With End Section		Triangulation Station	
Creek Edge		Pipe With Headwall		Underground Electric Line	
Curb/Gutter		Pipe Without End Section		Underground Gas Line	
Curb		Playground Slide		Underground Sanitary Sewer	
Dam Grade/Dike/Levee		Playground Swing		Underground Storm Sewer	
Ditch Block		Power And Light Pole		Underground Tank	
Drainage Profile		Power And Telephone Pole		Underground Telephone Line	
Drop Inlet		Power Meter		Underground Television Cable	
Edge Of Asphalt		Power Pole		Underground Water Line	
Edge Of Concrete		Power Pole And Transformer		Warning Sign One Post	
Edge Of Gravel		Power Tower Structure		Warning Sign Two Post	
Edge Of Other		Propane Tank		Water Fountain	
Edge Of Shoulder		Property Pipe		Water Hydrant	
Elec. Trans./Power Jct. Box		Property Pipe With Cap		Water Meter	
Fence Barbwire		Property Stone		Water Tower	
Fence Chainlink		Public Telephone		Water Valve	
Fence Electric		Railroad Crossing Signal		Water Well	
Fence Misc.		Railroad Milepost Marker		Weir Rock	
Fence Rock		Railroad Profile		Windmill	
Fence Snow		Railroad R.O.W. Marker		Wingwall	
Fence Wood		Railroad Signs		Witness Corner	
Fence Woven		Railroad Switch			
Fire Hydrant		Railroad Track		State and National Line	
Flag Pole		Railroad Trestle		County Line	
Flower Bed		Rebar		Section Line	
Gas Valve Or Meter		Rebar With Cap		Quarter Line	
Gas Pump Island		Reference Mark		Sixteenth Line	
Grain Bin		Retaining Wall		Property Line	
Guardrail		Riprap		Construction Line	
Gutter		River Edge		R. O. W. Line	
Guy Pole		Rock And Wire Baskets		New R. O. W. Line	
Haystack		Rockpiles		Cut and Fill Limits	
Hedge		Route Sign One Post		Control of Access	
Highway R.O.W. Marker		Route Sign Two Post		New Control of Access	



RIGHT OF WAY AND EASEMENT OWNERSHIP TABLE

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL
	P SRTS (38)	17	SHEETS 65

Parcel No.	Station (Begin)	Station (End)	Side	Type	Purpose	Area	Property Owner	Property Description
A1	1+87.56	to 2+03.44	LT	TEMP	Cut, Fill	250 Sq.Ft.	Elk Point Investments LLP	Lot Seventy Four (74), Country Club Estates Subdivision in the City of Elk Point, Union County, South Dakota
A2	4+39.37	to 6+59.22	LT	TEMP	Cut, Fill, Driveway	2200 Sq.Ft.	Larry Hawley and Lori Hawley	Lot Ten (10), Block Four (4), Southview Subdivision in the City of Elk Point, Union County, South Dakota
A3	6+59.22	to 7+89.34	LT	TEMP	Cut, Fill	1300 Sq.Ft.	Geoffrey Fowler and Ronald Szarenski	Lot Nine (9), Block Four (4), Southview Subdivision in the City of Elk Point, Union County, South Dakota
A4	8+54.34	to 9+84.33	LT	TEMP	Cut, Fill	1300 Sq.Ft.	Marcee Irlbeck and Benjamin Irlbeck	Lot One (1), Block Four (4), Southview Subdivision in the City of Elk Point, Union County, South Dakota
A5	9+84.33	to 11+14.23	LT	TEMP	Cut, Fill	1300 Sq.Ft.	Roger Morrow and Rosemary Morrow	Lot Ten (10), Block Three (3), Southview Subdivision in the City of Elk Point, Union County, South Dakota
A6	11+79.23	to 13+09.23	LT	TEMP	Cut, Fill	1300 Sq.Ft.	Russell Hanson and Margaret Hanson	Lot One (1), Block Three (3), Southview Subdivision in the City of Elk Point, Union County, South Dakota
A7	13+69.23	to 14+64.94	LT	TEMP	Cut, Fill, Driveway	1525 Sq.Ft.	Clifford Haines and Esther Haines	Lots One (1) and Two (2), Jones-Larsen Addition to the City of Elk Point, Union County, South Dakota
A8	14+64.94	to 16+61.64	LT	TEMP	Cut, Fill	2580 Sq.Ft.	Gary Steeg and Barbara Steeg	The East Half (E1/2) of Lots One (1), Two (2), Three (3), and Four (4), Block Three (3), Miller's Addition to the City of Elk Point, Union County, South Dakota
A9	17+21.64	to 18+24.62	LT	TEMP	Cut, Fill, Driveway	1030 Sq.Ft.	Rodney Rosenbaum and Shirley Rosenbaum	The South Fifteen feet (S15'), less the West Seventy-seven feet (W77') of Lot Four (4) and Lots Five (5) and Six (6), less the West Seventy-seven feet (W77'), and less Nine feet (9') of Vacated Alley, Block Two (2), Miller's Addition to the City of Elk Point, Union County, South Dakota
A9	18+24.62	to 18+96.53	LT	TEMP	Cut, Fill, Driveway	720 Sq.Ft.	Rodney Rosenbaum and Shirley Rosenbaum	The South Half (S1/2) of Lot Three (3) and Lot Four (4), less the South Fifteen feet (S15') and less Nine feet (9') of Vacated Alley, Block Two (2), Miller's Addition to the City of Elk Point, Union County, South Dakota
A10	18+96.53	to 19+96.04	LT	TEMP	Cut, Fill, Driveway	1000 Sq.Ft.	Elk Point - Jefferson School District 61-7	Lots One (1), Two (2), and the North Half (N1/2) of Lot Three (3) and Nine feet (9') of Vacated Alley, Block Two (2), Miller's Addition to the City of Elk Point, Union County, South Dakota
A11	31+51.50	to 33+22.90	RT	TEMP	Cut, Fill, Driveway	1725 Sq.Ft.	Kathleen Brewer	Lots Seven (7) and Eight (8), Block Three (3), Miller's Addition to the City of Elk Point, Union County, South Dakota
A12	33+38.90	to 34+24.60	RT	TEMP	Cut, Fill, Driveway	900 Sq.Ft.	Matthew Flannery and Tera Flannery	The West Half (W1/2) of Lots One (1), Two (2), Three (3), and Four (4), Block Three (3), Miller's Addition to the City of Elk Point, Union County, South Dakota
A13	35+70.30	to 36+60.96	RT	TEMP	Cut, Fill	900 Sq.Ft.	Barbara Croy	The West Ninty feet (W90') of the North Ten feet (N10') of Lot Six (6) and the West Ninty feet (W90') of Lots Seven (7) and Eight (8), Block Four (4), Miller's Addition to the City of Elk Point, Union County, South Dakota
A14	36+60.96	to 37+46.94	RT	TEMP	Cut, Fill	900 Sq.Ft.	Ryan Tatro and Cheryl Tatro	Huber Tract Four (4) of the West Eighty-six feet (W86') of the East Ninty feet (E90') of Lots Five (5), Six (6), Seven (7), and Eight (8), Block Four (4), Miller's Addition to the City of Elk Point, Union County, South Dakota
A15	37+70.94	to 38+54.94	RT	TEMP	Cut, Fill	900 Sq.Ft.	Kimberly Branson	Huber Tract One (1) of the East Eighty-four feet (E84') of the West Eighty-eight feet (W88') of Lots One (1), Two (2), Three (3), and Four (4), Block Four (4), Miller's Addition to the City of Elk Point, Union County, South Dakota
A16	38+54.94	to 39+16.96	RT	TEMP	Cut, Fill, Driveway	625 Sq.Ft.	Bonnie Lanning and Lonnie Lanning	Huber Tract Five (5), being a part of Lots One (1), Two (2), Three (3), and Four (4), Block Four (4), Miller's Addition to the City of Elk Point, Union County, South Dakota
A17	39+16.96	to 40+17.05	RT	TEMP	Cut, Fill, Driveway	1000 Sq.Ft.	Huber Rental, LLC	Huber Tract Six (6), being a part of of Lots One (1), Two (2), Three (3), and Four (4), Block Four (4), Miller's Addition to the City of Elk Point, Union County, South Dakota
A18	40+17.05	to 41+25.48	RT	TEMP	Cut, Fill	1000 Sq.Ft.	Veloris Huber	Huber Tract Eight (8) of Huber Tract Seven (7), being a part of Lots One (1), Two (2), Three (3), and Four (4), Block Four (4), Miller's Addition to the City of Elk Point, Union County, South Dakota
A19	30+65.54	to 30+85.54	RT	TEMP	Cut, Fill, Driveway	625 Sq.Ft.	Elk Point Independent School District	Lot A of the Southeast Quarter (SE1/4) of the Southeast Quarter (SE1/4) of Outlets
A19	30+65.54	to 30+85.54	RT	PERM	Cut, Fill, Driveway	180 Sq.Ft.	Elk Point Independent School District	Lot A of the Southeast Quarter (SE1/4) of the Southeast Quarter (SE1/4) of Outlets



SIGN REMOVE AND RESET TABLE

SIGN DATA			
STATION	DESCRIPTION	SIGN SIZE Width X Height (FT)	REMOVE AND RESET
			632E3520
1+94.4 L		1.50 X 1.00	1 {PT}
		1.00 X 0.25	
11+74.1 L	COURT ST. MAPLE CT.	1.00 X 0.50	1 {P}
		1.00 X 0.50	
14+60.3 L		1.50 X 2.00	{U}
35+64.8 R	STOP ALL WAY	2.50 X 2.50	1 {PT}
		1.50 X 0.50	
37+74.4 R	DUPONT ST. PARK PLACE	1.00 X 0.50	1 {P}
		1.50 X 0.50	

Number and type [{U}-Channel, {W}ood, {L}uminaire, {P}ipe, {PF} – Pipe on Footing, {2PF} – Two Pipe on Footing, {PT} – Perforated Tube, {S}ignal Pole, {WU} – Wood Utility, and {2I} Two I-Beam] of support(s)



TRAFFIC CONTROL



CONTRACTOR SHALL HAVE 24 HOUR ON CALL PERSON TO MANAGE TRAFFIC CONTROL SIGNS. CONTRACTOR SHALL PROVIDE NAME AND PHONE NUMBER TO THE ENGINEER AT THE PRECONSTRUCTION MEETING.

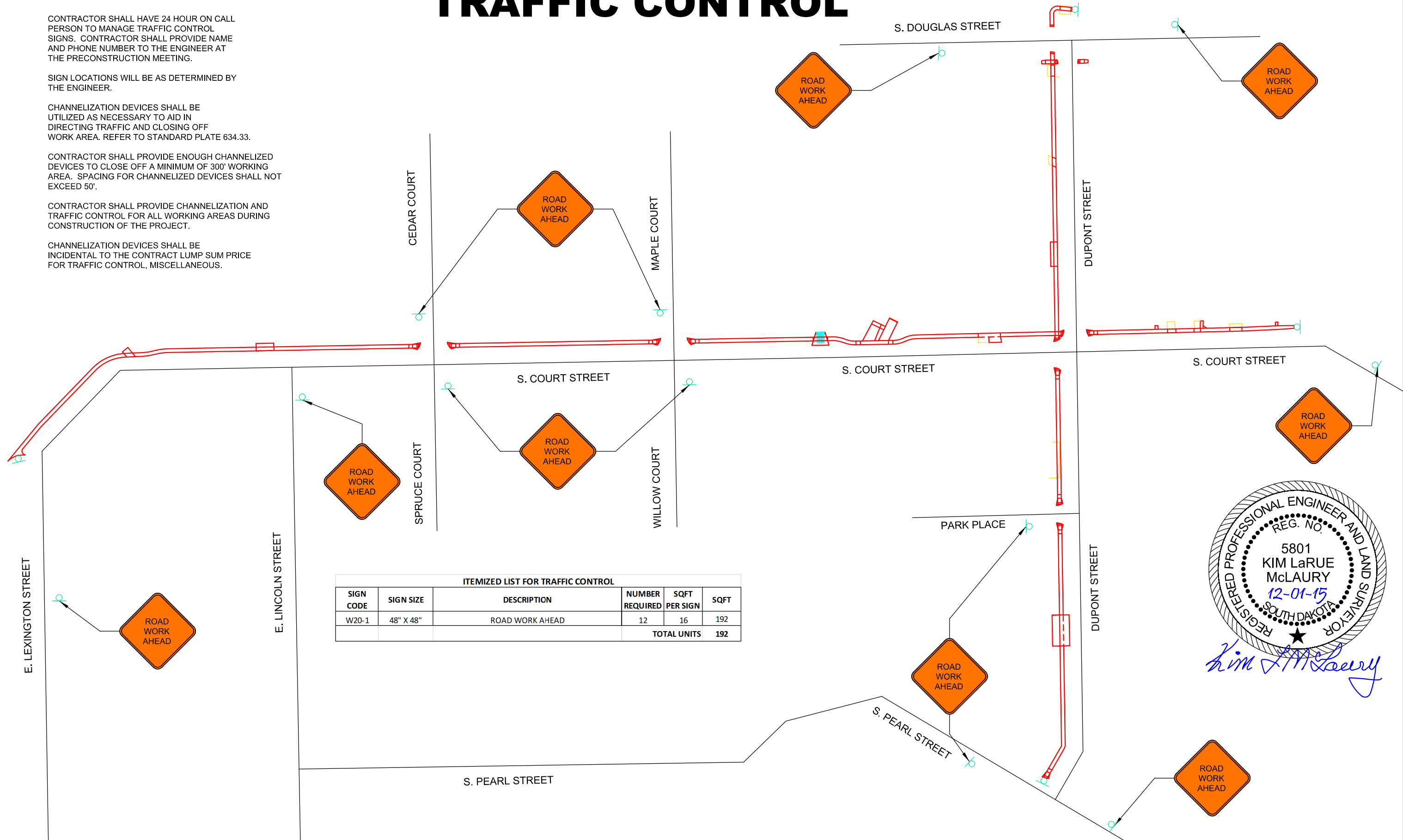
SIGN LOCATIONS WILL BE AS DETERMINED BY THE ENGINEER.

CHANNELIZATION DEVICES SHALL BE UTILIZED AS NECESSARY TO AID IN DIRECTING TRAFFIC AND CLOSING OFF WORK AREA. REFER TO STANDARD PLATE 634.33.

CONTRACTOR SHALL PROVIDE ENOUGH CHANNELIZED DEVICES TO CLOSE OFF A MINIMUM OF 300' WORKING AREA. SPACING FOR CHANNELIZED DEVICES SHALL NOT EXCEED 50'.

CONTRACTOR SHALL PROVIDE CHANNELIZATION AND TRAFFIC CONTROL FOR ALL WORKING AREAS DURING CONSTRUCTION OF THE PROJECT.

CHANNELIZATION DEVICES SHALL BE INCIDENTAL TO THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL, MISCELLANEOUS.



ITEMIZED LIST FOR TRAFFIC CONTROL					
SIGN CODE	SIGN SIZE	DESCRIPTION	NUMBER REQUIRED	SQFT PER SIGN	SQFT
W20-1	48" X 48"	ROAD WORK AHEAD	12	16	192
			TOTAL UNITS		192

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
 REG. NO. 5801
 KIM LaRUE
 McLAURY
 12-01-15
 REGISTERED SOUTH DAKOTA
Kim LaRue

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	20	65

By Others:
 2+17.3 - 27.5' L
 4+45.2 - 25.6' L
 6+33.5 - 22.6' L
 Remove and Reset Utility Box

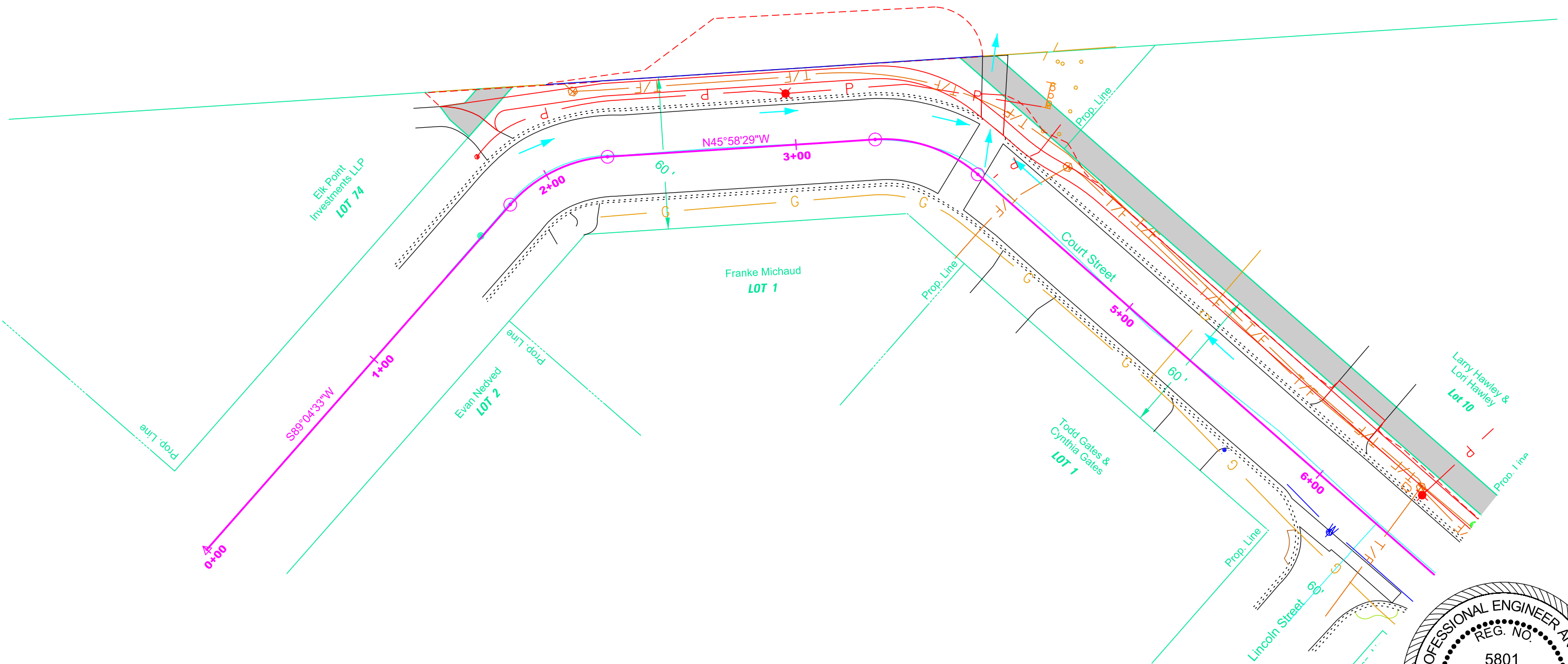
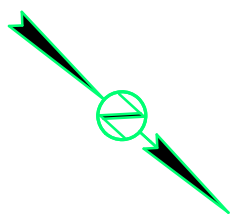
2+97.3 - 20.3' L
 6+36.0 - 20.5' L
 Do Not Disturb Light Pole
 4+21.6 - 42.3' L
 Do Not Disturb Billboard
 6+29.2 - 18.8' L
 Do Not Disturb Mailbox

2+11.2 - 32.6' L to 3+58.1 - 40.7' L
 Remove Fence
 Remove, Salvage, Relocate, and Reset Traffic Sign at the following locations:
 1+94.4 - 29.6' L

Sta 2+11.2 - 32.6' L
 Two Post Panel
 Begin Type 5 ROW Fence
 Match Existing
 Sta 3+58.1 - 40.7' L
 End Type 5 ROW Fence
 Match Existing

ELK POINT

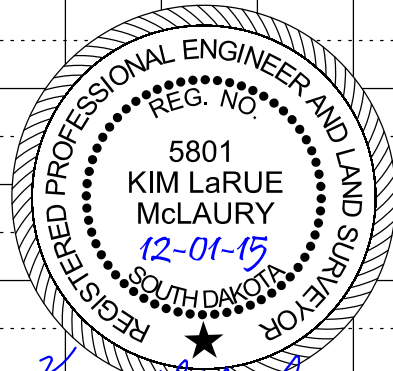
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 SEC 30 - T91N - R49W



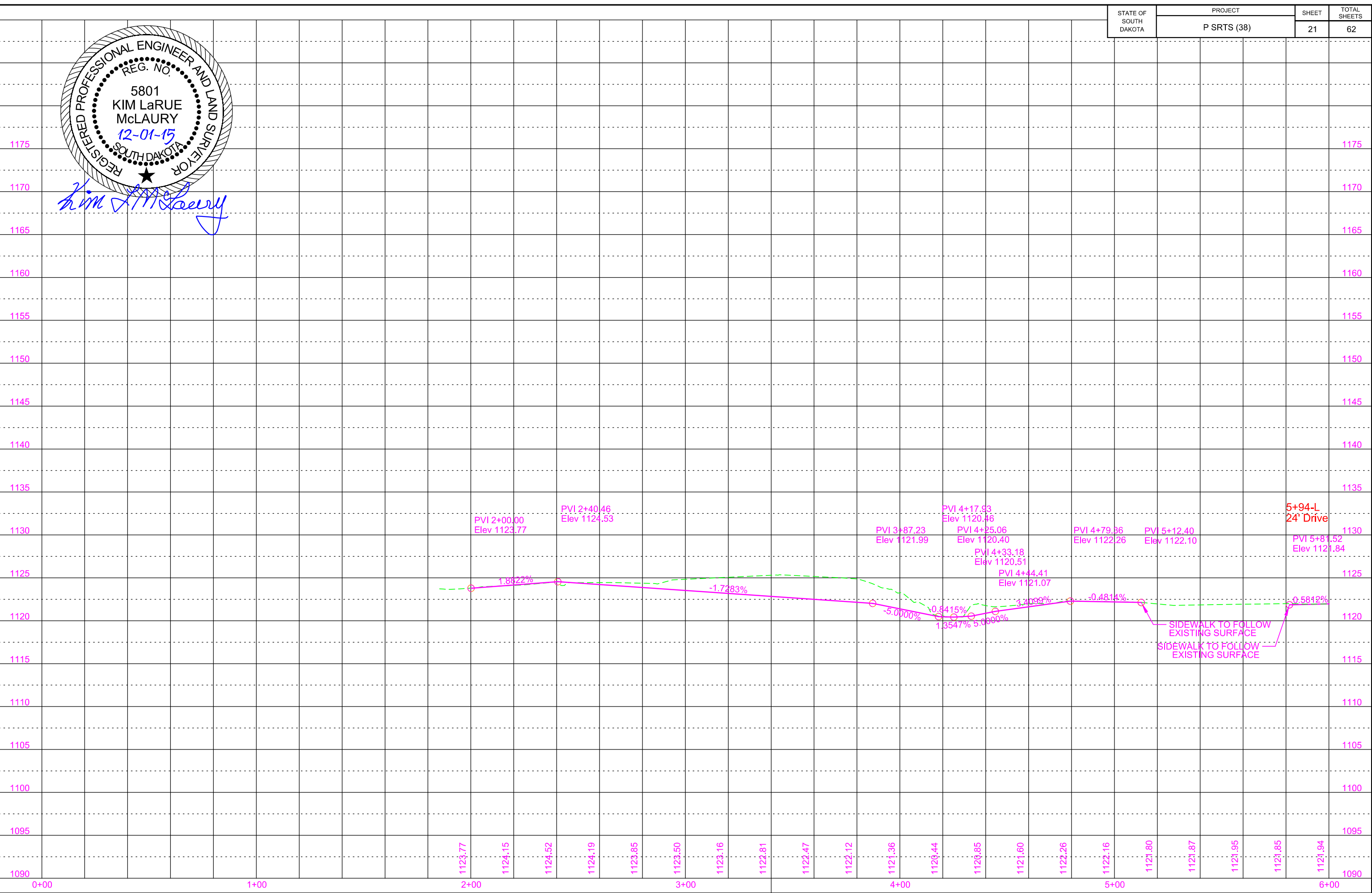
SOUTHVIEW SUBDIVISION
 SEC 30 - T91N - R49W



Kim LaRue McLaury



Kim LaRue



By Others:
 8+48.4 - 24.37' L
 Remove and Reset Light Pole
 9+89.9 - 22.4' L
 9+91.5 - 25.0' L
 Remove and Reset Utility Box

7+07.1 - 20.0' L
 9+91.7 - 19.3' L
 Do Not Disturb Traffic Sign
 9+94.0 - 22.0' L
 Do Not Disturb Utility Box

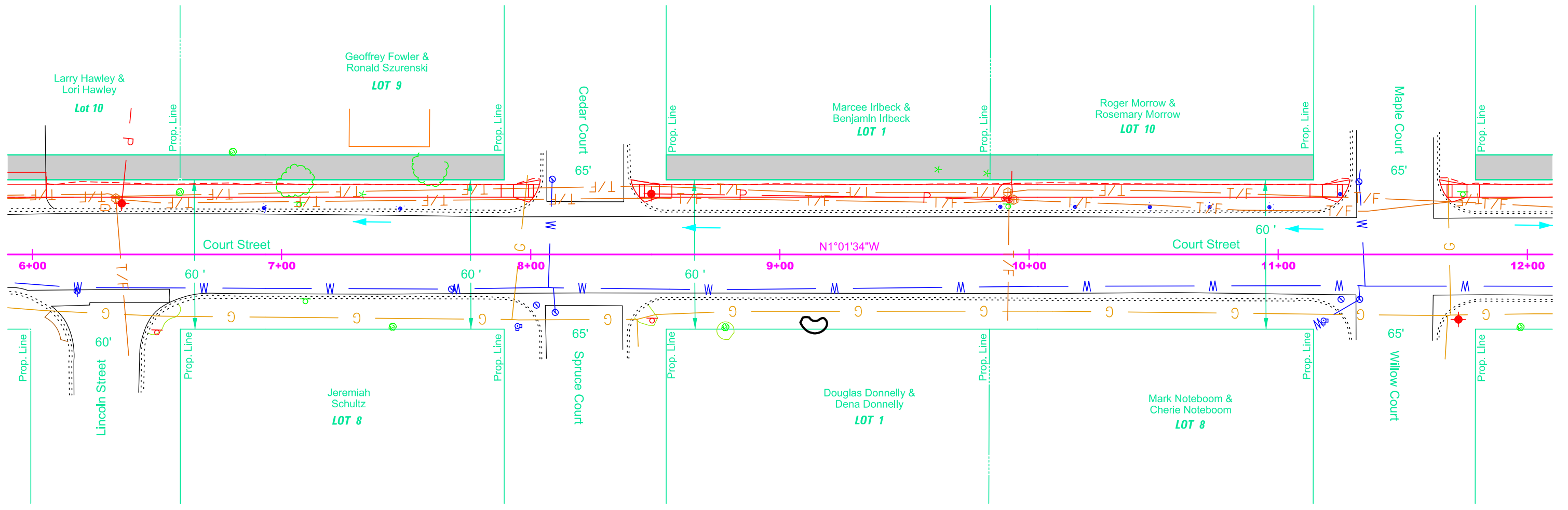
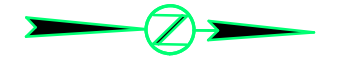
Remove, Salvage, Relocate,
 and Reset Traffic Sign at the
 following locations:
 11+74.1 - 24.2' L

Clear and Grub Tree or Remove Tree:
 6+59 - 25' L
 7+32 - 24' L
 9+63 - 34' L
 9+83 - 33' L

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	22	65

ELK POINT

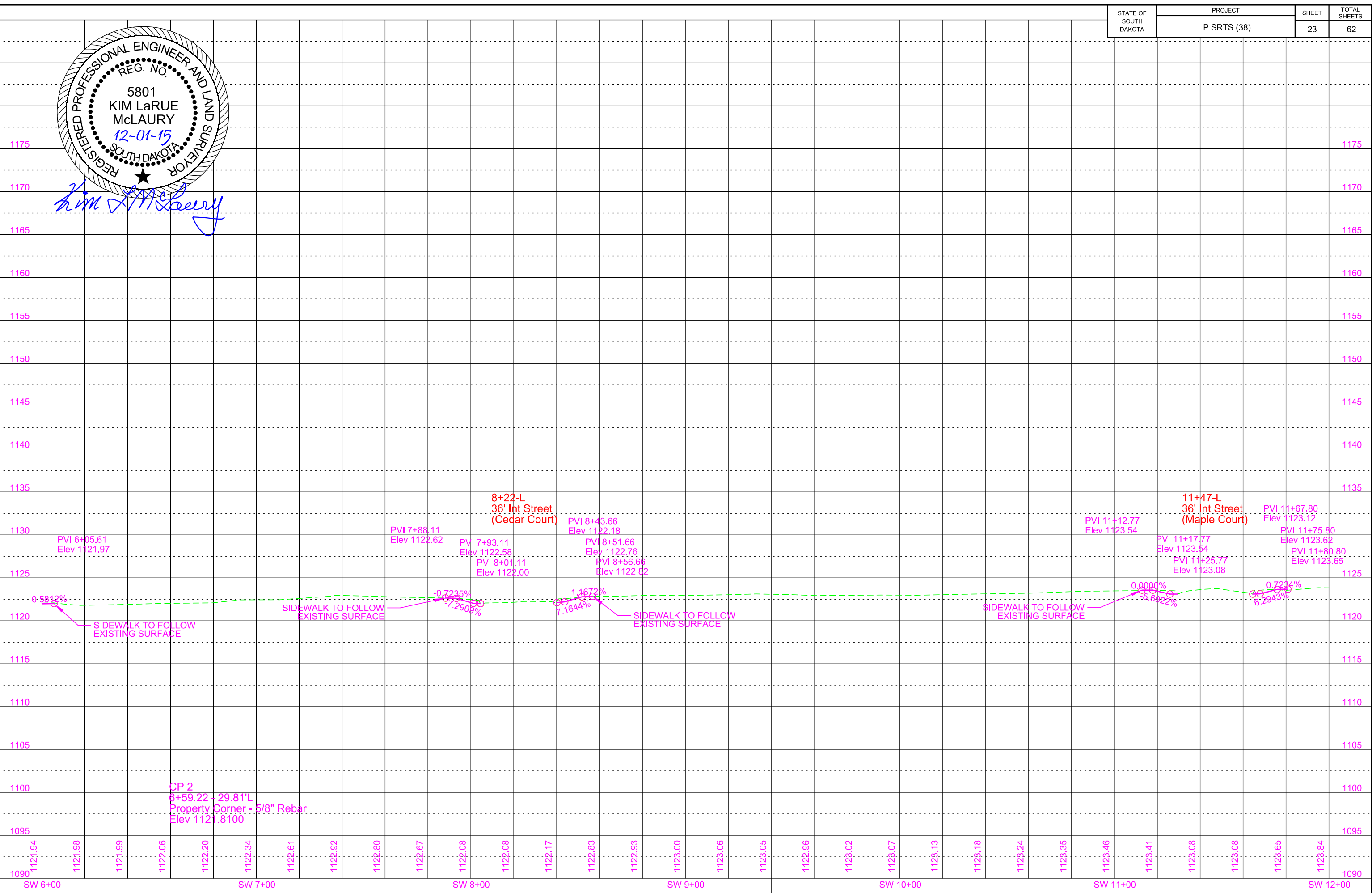
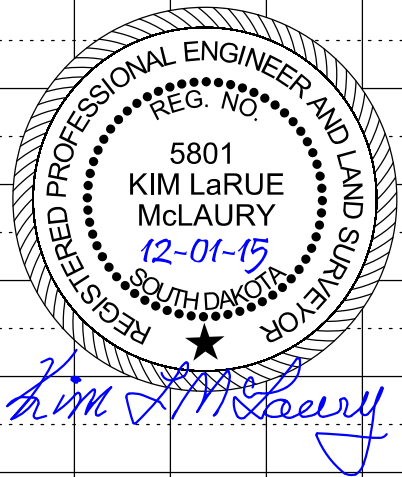
SOUTHVIEW SUBDIVISION SEC 19 - T91N - R49W



SOUTHVIEW SUBDIVISION SEC 19 - T91N - R49W

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
 REG. NO. 5801
 KIM LaRUE
 McLAURY
 12-01-15
 SOUTH DAKOTA

Kim LaRue



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1135

1130

1125

1120

1115

1110

1105

1100

1095

1090

SW 6+00 SW 7+00 SW 8+00 SW 9+00 SW 10+00 SW 11+00 SW 12+00

PVI 6+05.61 Elev 1121.97

PVI 7+88.11 Elev 1122.62

PVI 7+93.11 Elev 1122.58

PVI 8+01.11 Elev 1122.00

PVI 8+43.66 Elev 1122.18

PVI 8+51.66 Elev 1122.76

PVI 8+56.66 Elev 1122.82

PVI 11+12.77 Elev 1123.54

PVI 11+17.77 Elev 1123.54

PVI 11+25.77 Elev 1123.08

PVI 11+67.80 Elev 1123.12

PVI 11+75.80 Elev 1123.62

PVI 11+80.80 Elev 1123.65

0.6812%

-0.7235%

7.2909%

1.1672%

7.1644%

0.0000%

3.6422%

0.7234%

6.2943%

SIDEWALK TO FOLLOW EXISTING SURFACE

8+22-L 36' Int Street (Cedar Court)

11+47-L 36' Int Street (Maple Court)

CP 2
6+59.22 ± 29.81'L
Property Corner - 5/8" Rebar
Elev 1121.8100

13+41.6 - 34.59' L to 13+41.6 - 20.46' L
 Install 18" Arch - 10' RCP
 Install 18" Arch Flared End - 1 Each
 (Connect to Existing)

13+45.2 - 34.59' L to 13+45.2 - 20.47' L
 Install 18" Arch - 10' RCP
 Install 18" Arch Flared End - 1 Each
 (Connect to Existing)

13+48.6 - 34.59' L to 13+48.6 - 20.47' L
 Install 18" Arch - 10' RCP
 Install 18" Arch Flared End - 1 Each
 (Connect to Existing)

13+42 - 20' L to 13+42 - 26' L
 Take out 18" Arch Flared End - 1 Each
 (Incidental Work, Grading)

13+45 - 20' L to 13+45 - 26' L
 Take out 18" Arch Flared End - 1 Each
 (Incidental Work, Grading)

13+49 - 20' L to 13+49 - 26' L
 Take out 18" Arch Flared End - 1 Each
 (Incidental Work, Grading)

By Others:
 13+12.7 - 23.7' L
 16+70.5 - 21.7' L
 Remove and Reset Light Pole

13+13.8 - 26.2' L
 13+16.9 - 26.0' L
 16+60.7 - 21.8' L
 16+67.2 - 21.9' L
 16+71.1 - 24.3' L
 17+13.4 - 19.8' L
 Remove and Reset Utility Box

141+60.3 L
 Remove and Reset Traffic Sign

12+63.7 - 32.4' L
 17+39.7 - 29.92' L
 18+07.6 - 29.3' L
 Do Not Disturb Tree

14+28.7 - 40.6' L
 Do Not Disturb Flag Pole

14+48.0 - 23.5' L
 Do Not Disturb Utility Box

14+51.9 - 25.2' L
 Do Not Disturb Light Pole

15+51.8 - 15.3' L
 15+53.0 - 15.5' L
 17+97.2 - 16.0' L
 Do Not Disturb Mailbox

17+23.2 - 16.4' L
 Do Not Disturb Traffic Sign

13+41.6 - 20.46' L to 13+41.7 - 16.98' L
 Do Not Disturb 18" Arch RCP

13+45.2 - 16.93' L to 13+45.2 - 20.47' L
 Do Not Disturb 18" Arch RCP

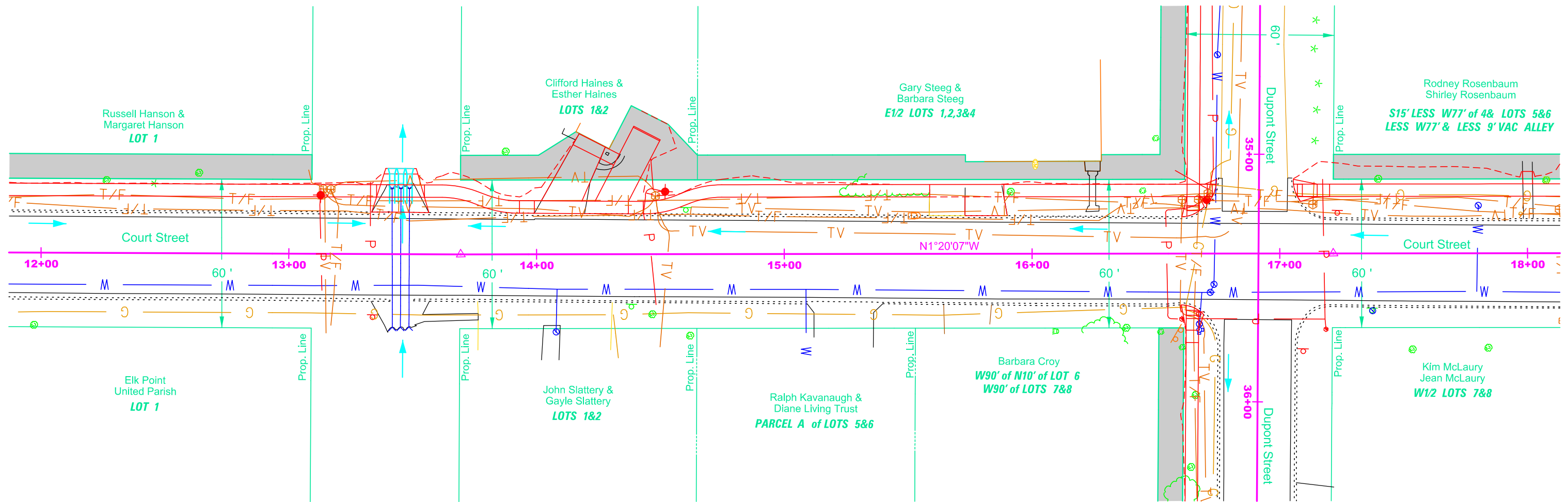
13+48.6 - 16.90' L to 13+48.6 - 20.47' L
 Do Not Disturb 18" Arch RCP

Clear and Grub Tree or Remove Tree:
 12+36 - 29' L
 12+46 - 28' L
 15+91 - 25' L

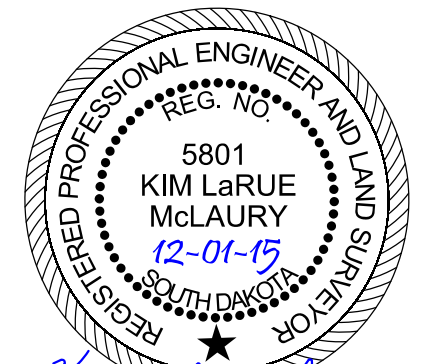
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	24	65

ELK POINT

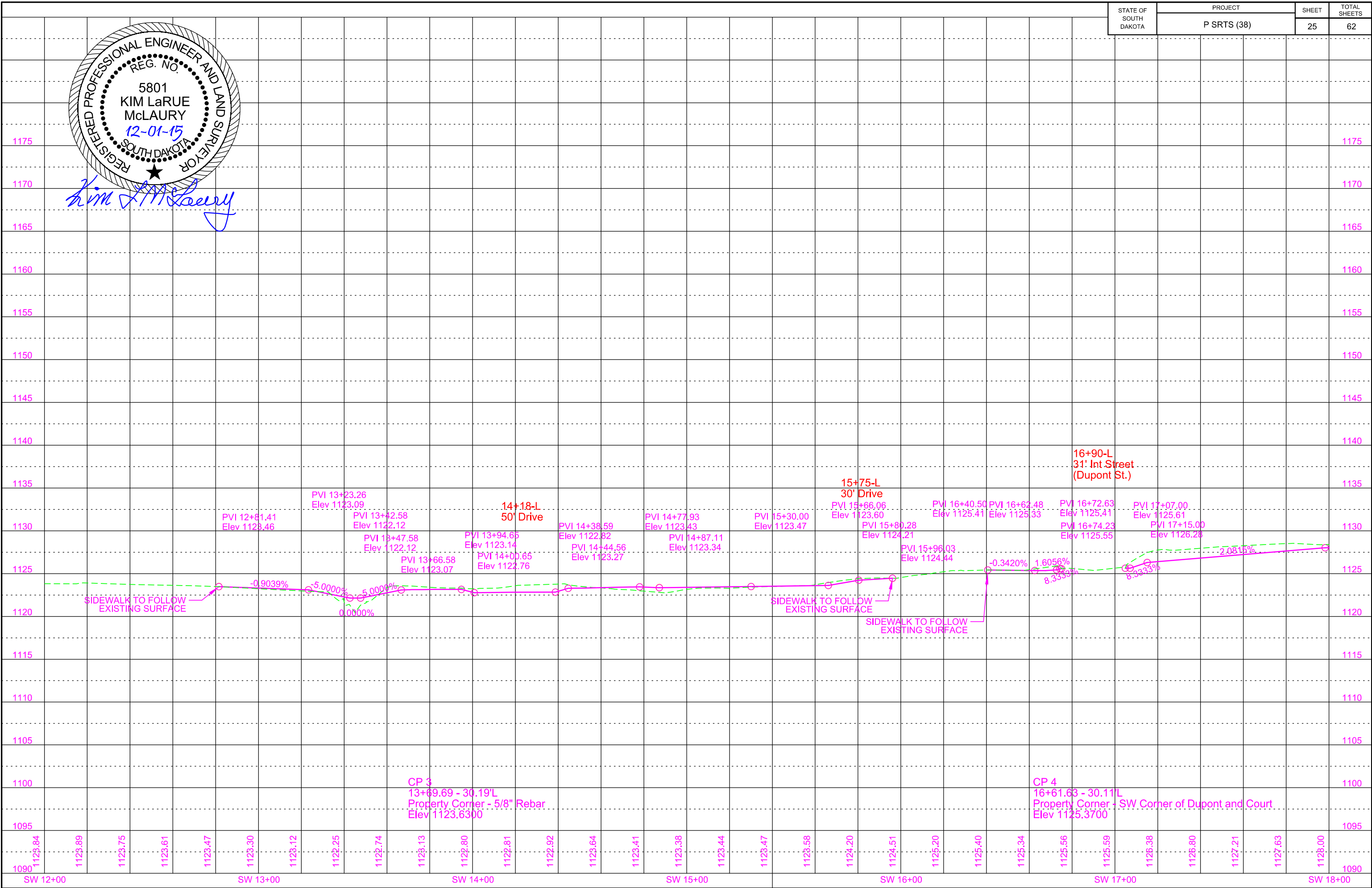
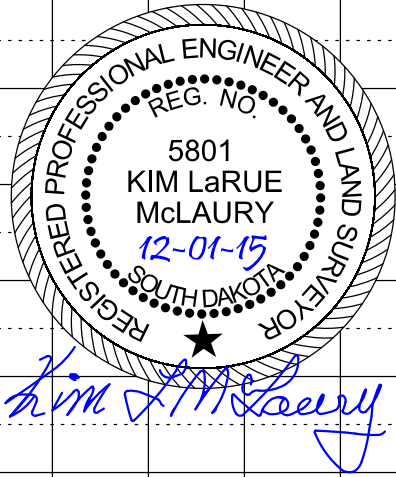
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Kim LaRue McLaury



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	26	65

18+27.9 - 28.7' L
 18+68.7 28.6' L
 18+89.7 - 28.6' L
 19+25.7 - 32.9' L
 19+91.8 - 28.1' L
 Do Not Disturb Tree

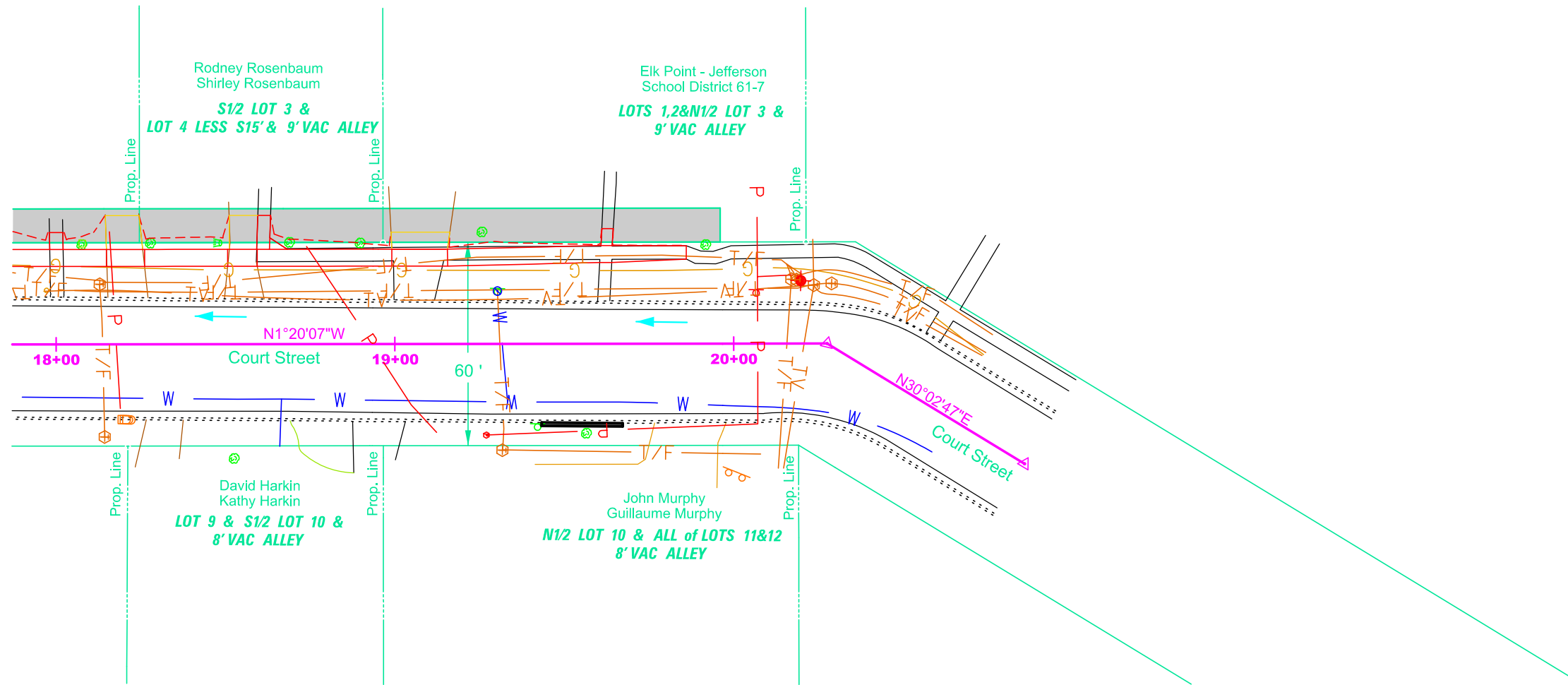
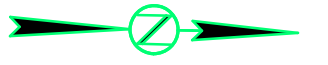
18+12.9 - 28.7' L
 20+17.0 - 19.0' L
 20+18.6 - 18.9' L
 20+23.7 - 17.3' L
 20+25.5 - 18.1' L
 Do Not Disturb Utility Box

19+30.3 - 15.4' L
 20+06.6 - 14.9' L
 Do Not Disturb Traffic Sign

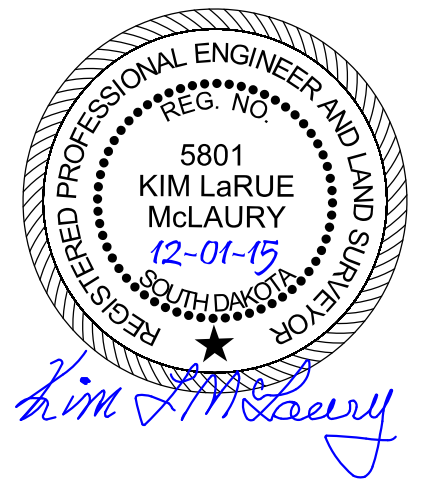
20+19.8 - 18.6' L
 Do Not Disturb Light Pole

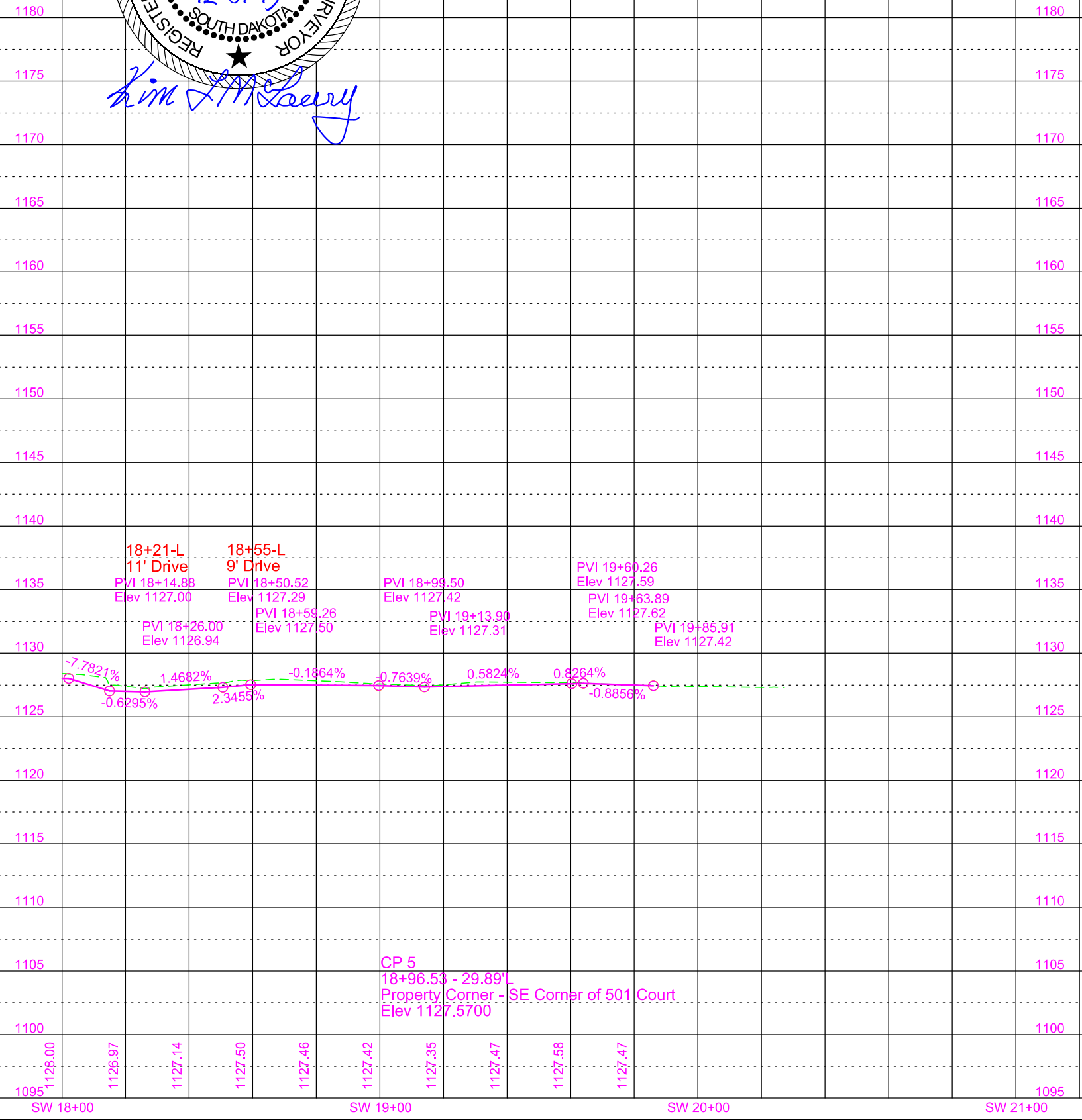
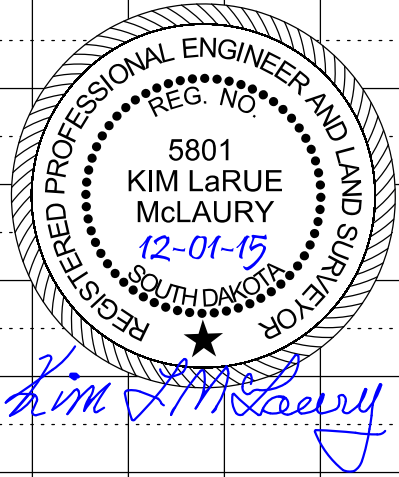
ELK POINT

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	28	65

Rev 12/11/15 MDN

By Others:
 35+66.6 - 30.8' R
 Remove and Reset Utility Box
 35+71.0 - 23.71' R
 Remove and Reset Fire Hydrant

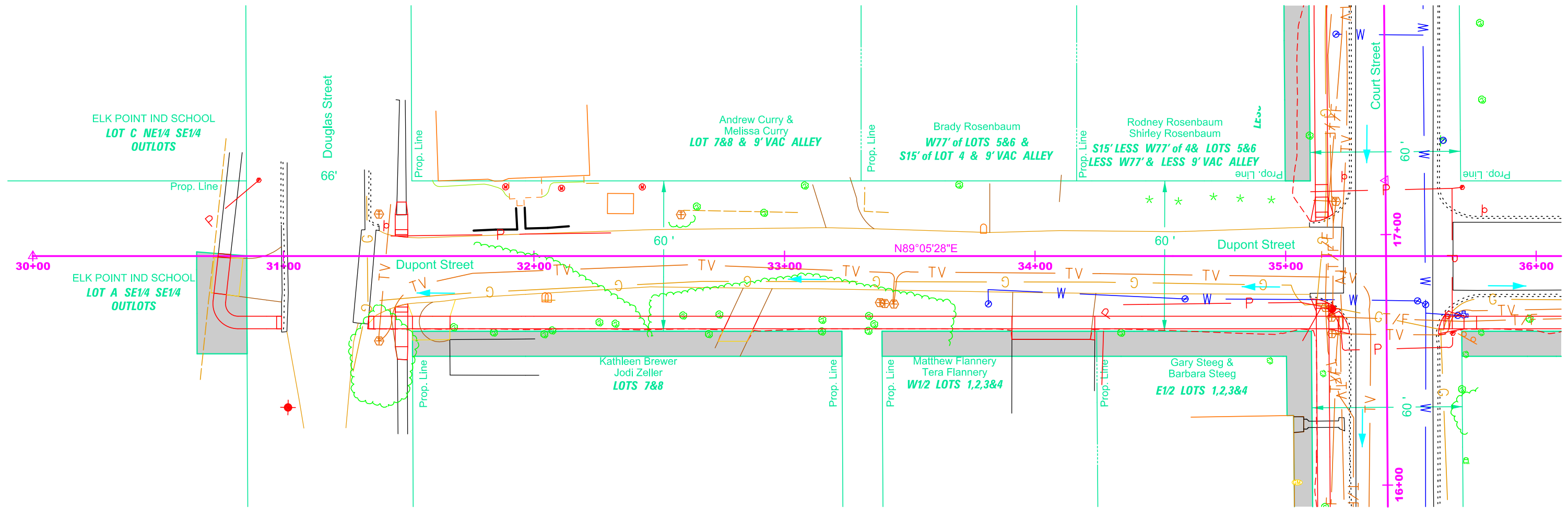
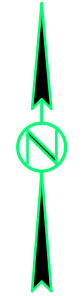
31+38.2 - 33.9' R
 33+38.1 - 18.6' R
 33+40.0 - 18.9' R
 33+43.7 - 19.1' R
 Do Not Disturb Utility Box
 32+04.3 - 31.2' R
 32+70.0 - 31.2' R
 35+71.9 - 39.3' R
 35+78.1 - 30.6' R
 Do Not Disturb Tree

32+04.4 - 16.6' R
 32+05.8 - 16.7' R
 Do Not Disturb Mailbox
 Remove, Salvage, Relocate, and Reset Traffic Sign at the following locations:
 35+64.8 - 24.1' R

Clear and Grub Tree or Remove Tree:
 31+68 - 28' R
 31+84 - 31' R*
 32+08 - 30' R
 32+26 - 26'R
 32+33 - 27' R
 32+60 - 24' R
 32+74 - 23' R
 33+15 - 25' R
 33+34 - 24' R
 33+36 - 27' R
 34+35 - 31' R
 35+98 - 25' R
 *DONE BY OTHERS

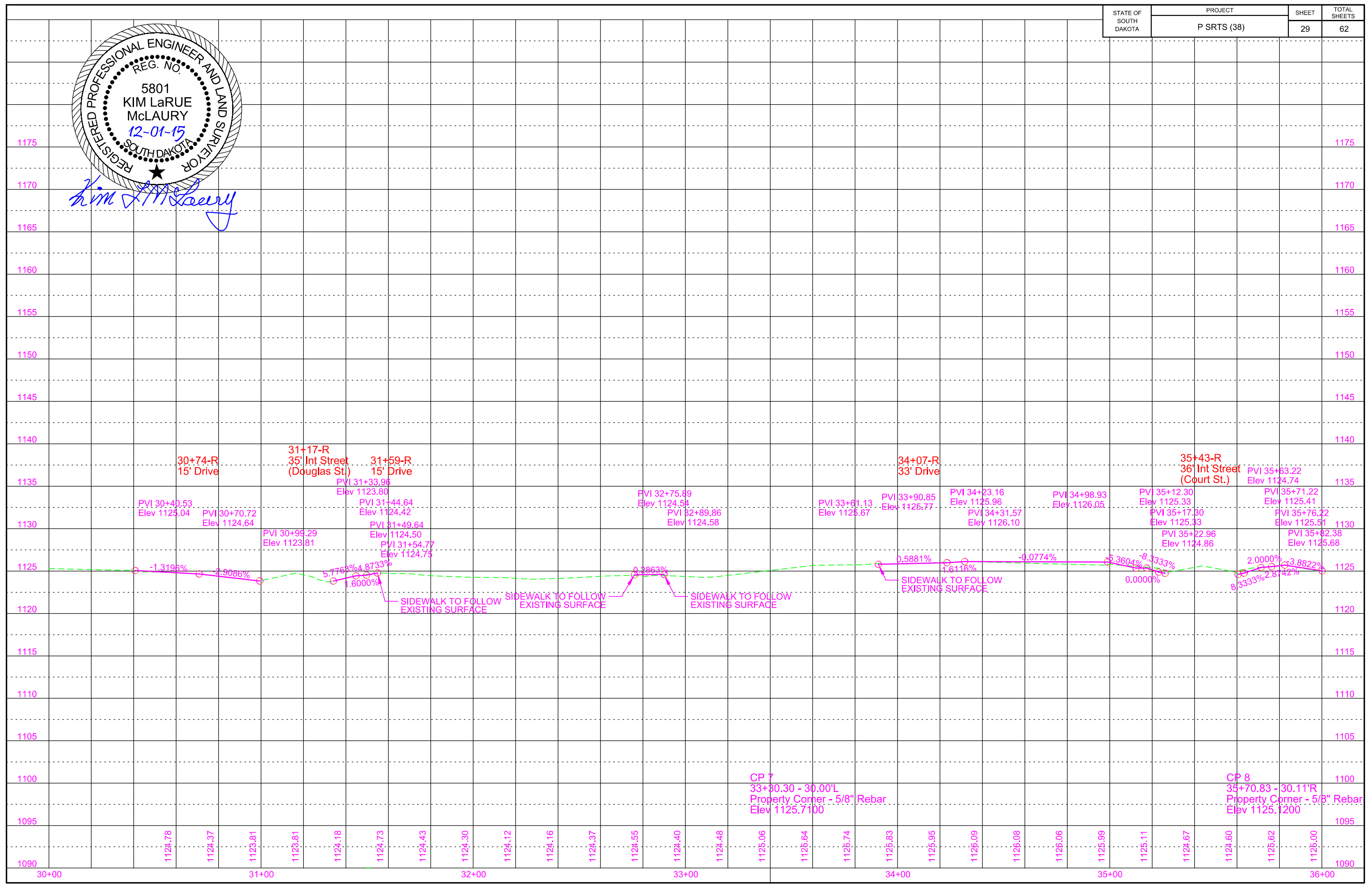
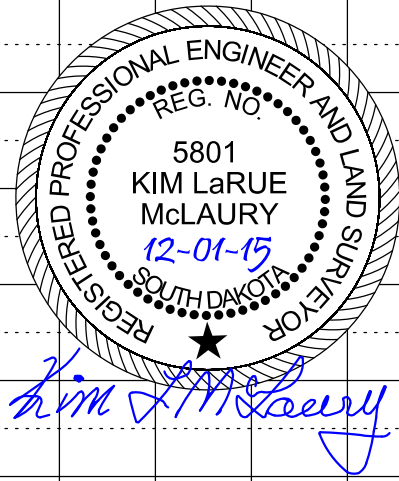
ELK POINT

SOUTHVIEW SUBDIVISION
 SEC 19 - T91N - R49W



SOUTHVIEW SUBDIVISION
 SEC 19 - T91N - R49W

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
 SOUTH DAKOTA
 REG. NO. 5801
 KIM LaRUE McLAURY
 12-11-15
Kim McLaury



By Others:
 36+62.2 - 23.6' R
 38+56.8 - 30.0' R
 38+58.1 - 29.0' R
 Remove and Reset Utility Box
 37+40.7 - 25.6' R
 41+35.4 - 28.1' R
 Remove and Reset Light Pole

41+17.2 - 17.6' R
 Do Not Disturb Drop Inlet
 41+25.7 - 17.8' R
 Do Not Disturb Traffic Sign

36+61.7 - 25.4' R to 37+09.9 - 25.7' R
 Remove Fence For Reset
 Remove, Salvage, Relocate,
 and Reset Traffic Sign at the
 following locations:
 37+74.4 - 24.5' R

Clear and Grub Tree or Remove Tree:
 36+27 - 27' R *
 37+90 - 28' R
 38+13 - 28' R
 38+36 - 28' R
 * DONE BY OTHERS

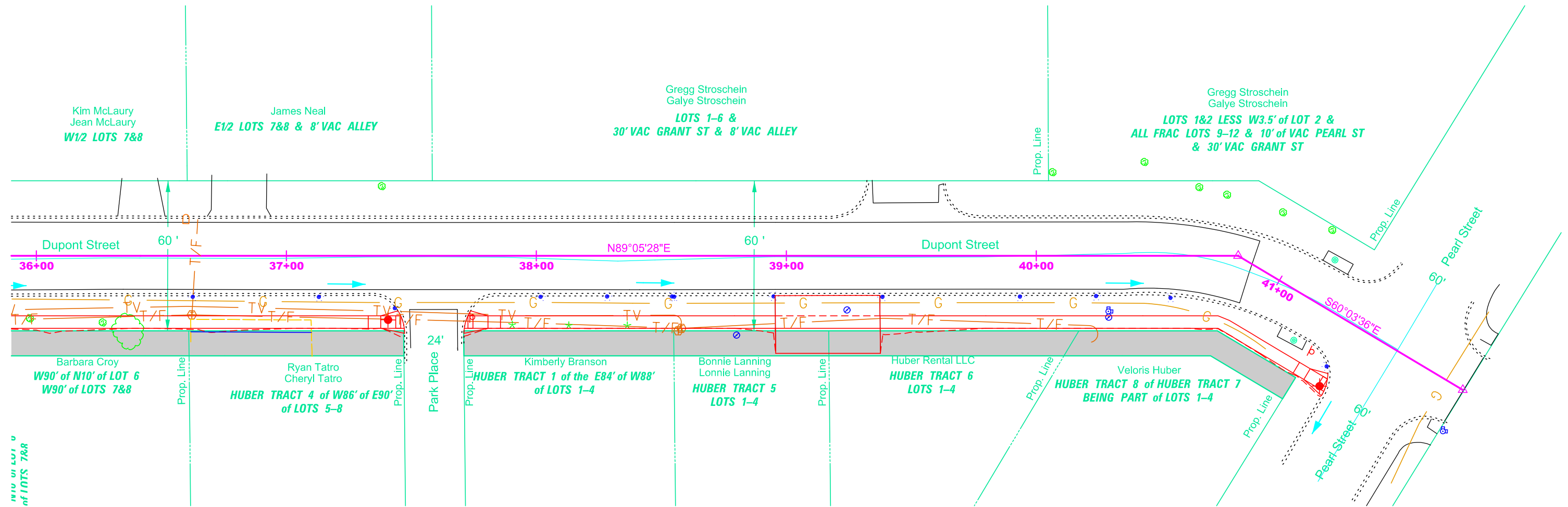
Sta 36+61.8 - 30.4' R to Sta 37+10.0 - 30.7' R
 Reset Wood Privacy Fence

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	30	65

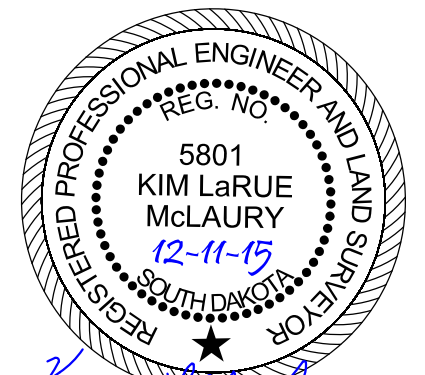
Rev 12/11/15 MDN

ELK POINT

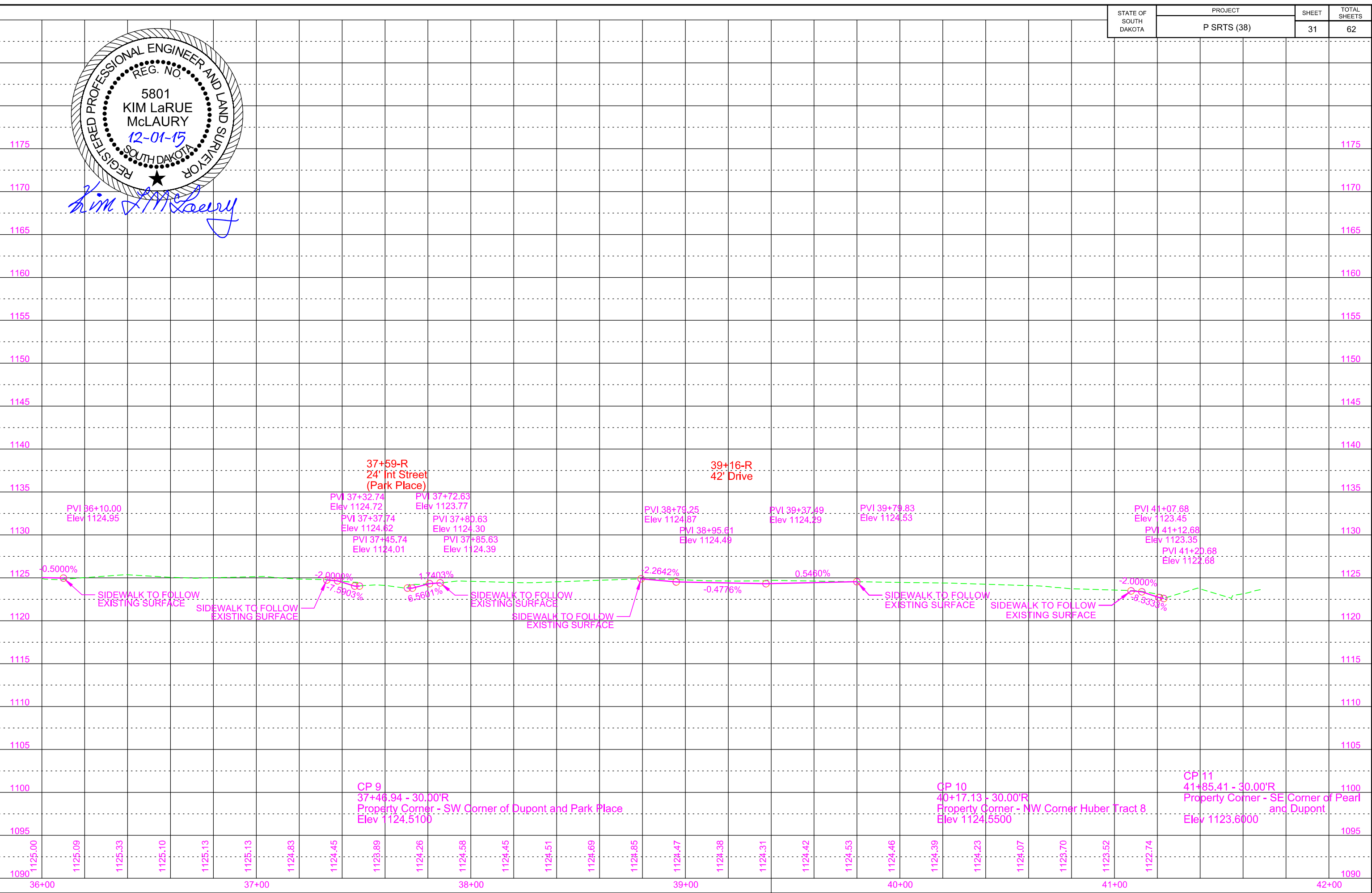
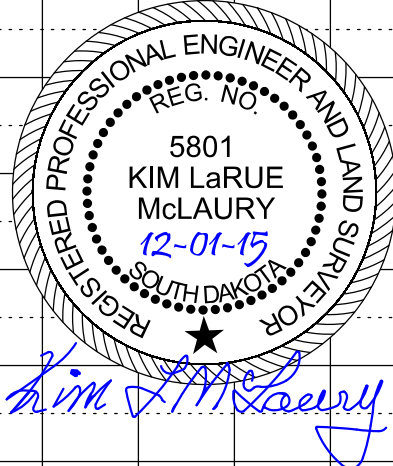
SOUTHVIEW SUBDIVISION SEC 19 - T91N - R49W



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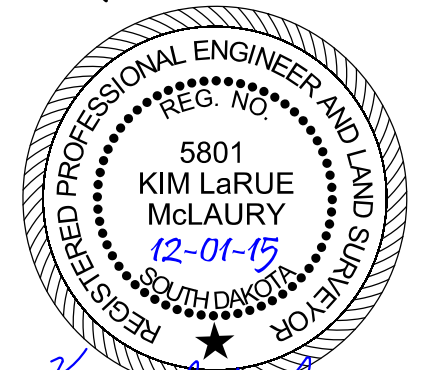
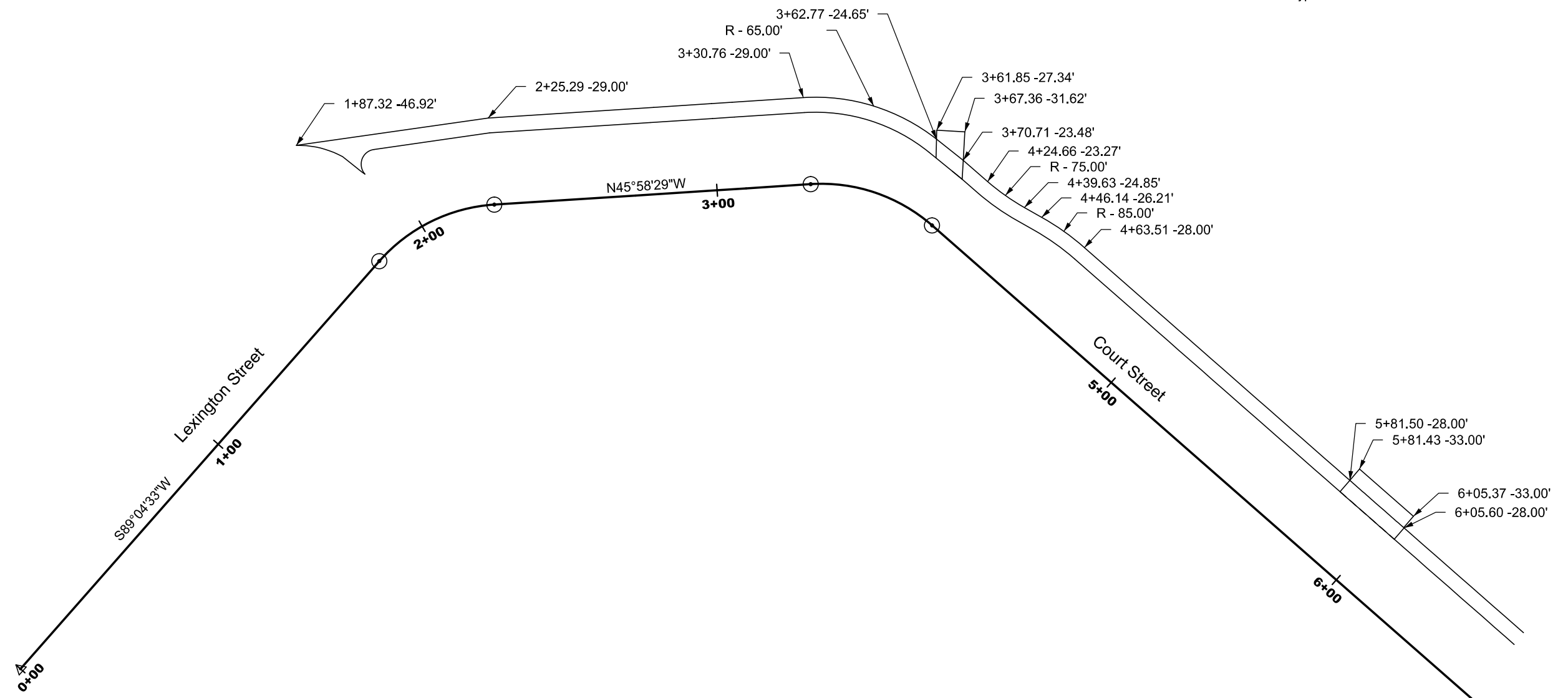
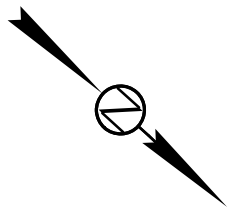


1125.00	1125.09	1125.33	1125.10	1125.13	1125.13	1124.83	1124.45	1123.89	1124.26	1124.58	1124.45	1124.51	1124.69	1124.85	1124.47	1124.38	1124.31	1124.42	1124.53	1124.46	1124.39	1124.23	1124.07	1123.70	1123.52	1122.74			
36+00					37+00					38+00					39+00					40+00					41+00			42+00	

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	32	65

CURB & GUTTER LAYOUT

NOTES:
All Sidewalk is 5.0'
Drive is Type A



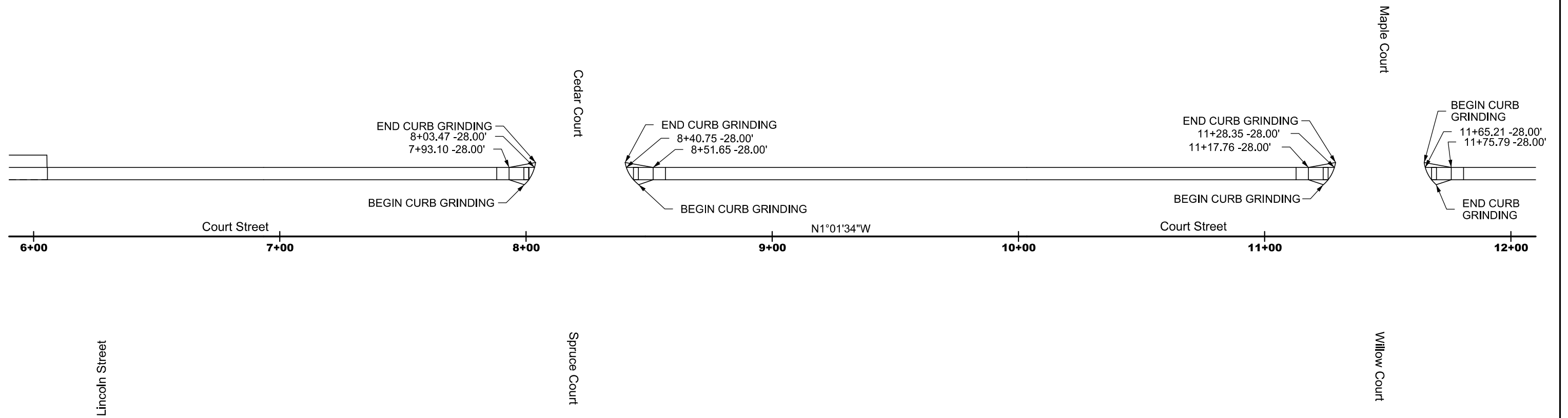
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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	33	65

CURB & GUTTER LAYOUT

NOTES:
All Sidewalk is 5.0'
Drive is Type A

NOTES:
All curb grinding shall be on existing curb.
All curb grinding shall produce a smooth, uniform surface.
At completion of grinding, the ramp shall meet all applicable elevations, grade, and transition requirements as detailed for new construction in;
Special Detail - Grinding Miscellaneous Concrete and Standard Plate 651.02, as well as all ADA Requirements



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	34	65

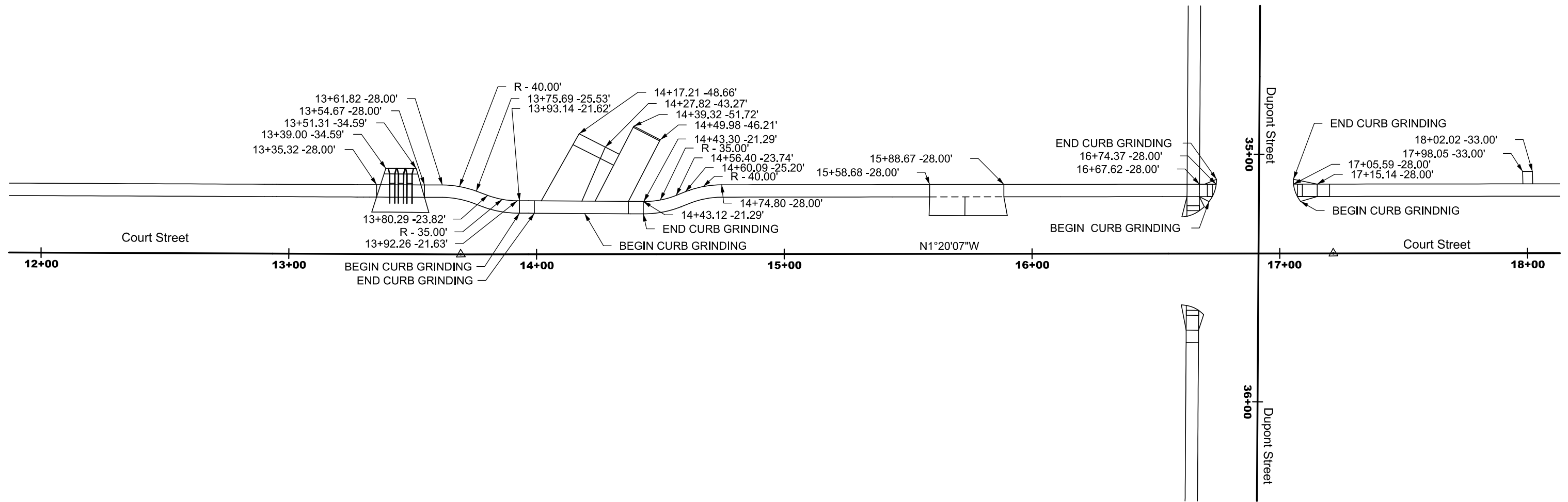
CURB & GUTTER LAYOUT

NOTES:

All curb grinding shall be on existing curb,
 All curb grinding shall produce a smooth, uniform surface.
 At completion of grinding, the ramp shall meet all
 applicable elevations, grade, and transition requirements
 as detailed for new construction in;
 Special Detail - Grinding Miscellaneous Concrete and
 Standard Plate 651.02, as well as all ADA Requirements

NOTES:

All Sidewalk is 5.0'
 13+93 L to 14+43 L Drive is Type B
 15+59 L to 15+89 L Drive is Type A



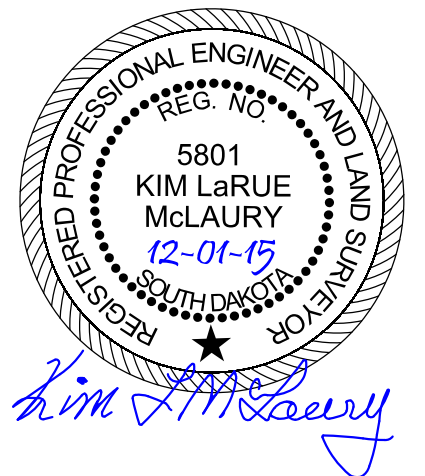
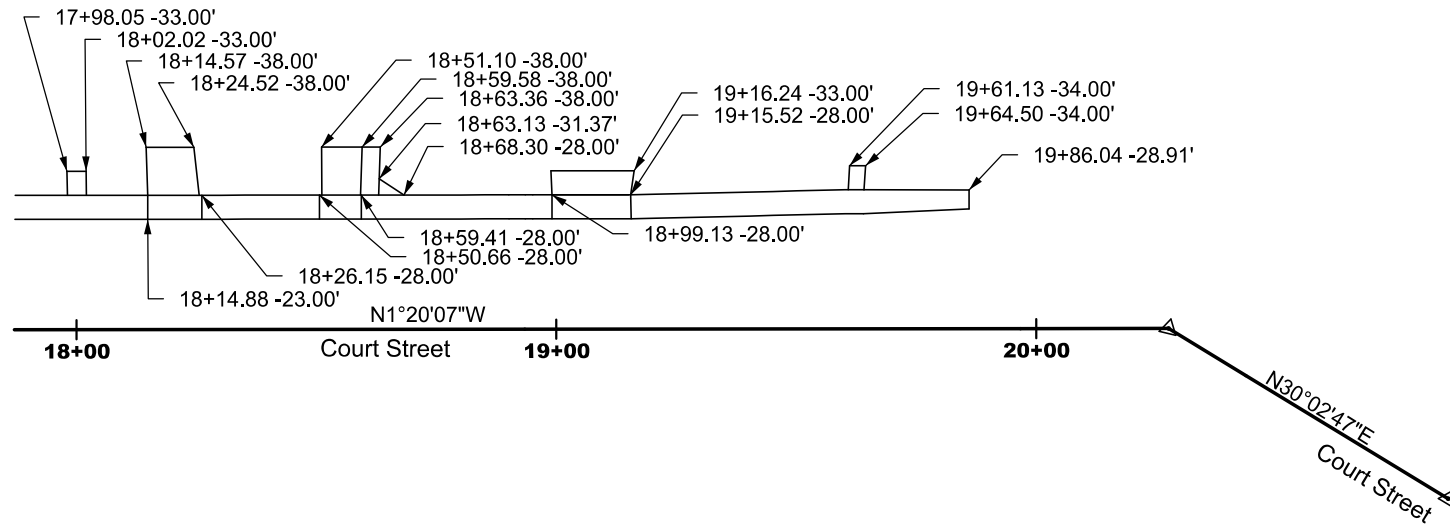
REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
 REG. NO. 5801
 KIM LaRUE
 McLAURY
 12-01-15
 SOUTH DAKOTA

Kim LaRue McLaury

CURB & GUTTER LAYOUT

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	35	65

NOTES:
All Sidewalk is 5.0'
Drive is Type A



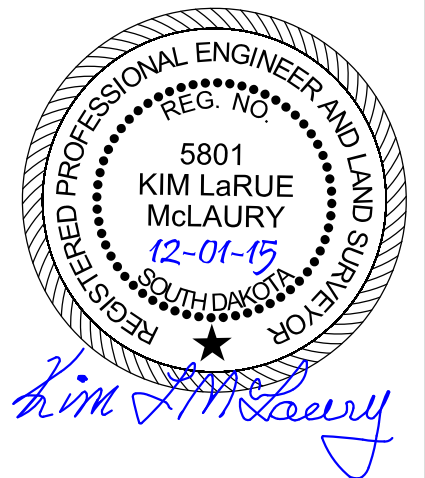
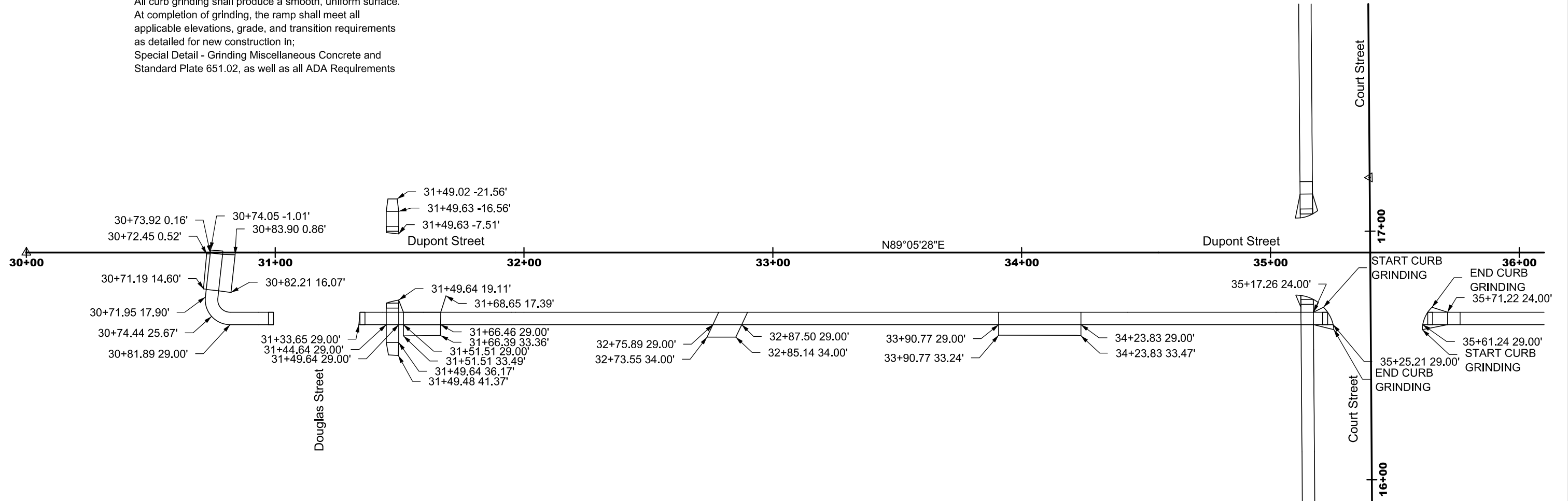
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	36	65

CURB & GUTTER LAYOUT

NOTES:
All Sidewalk is 5.0'
Drive is Type A



NOTES:
All curb grinding shall be on existing curb.
All curb grinding shall produce a smooth, uniform surface.
At completion of grinding, the ramp shall meet all applicable elevations, grade, and transition requirements as detailed for new construction in;
Special Detail - Grinding Miscellaneous Concrete and Standard Plate 651.02, as well as all ADA Requirements



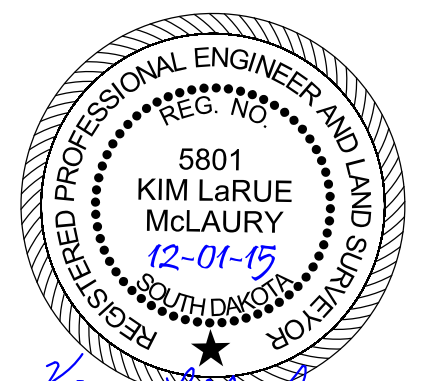
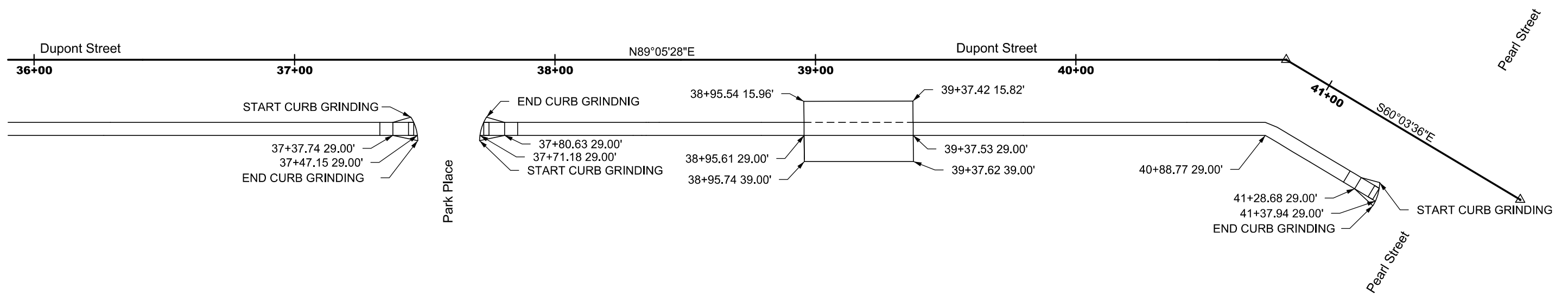
CURB & GUTTER LAYOUT

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	37	65

NOTES:
All Sidewalk is 5.0'
Drive is Type A



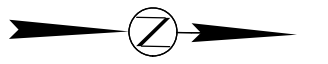
NOTES:
All curb grinding shall be on existing curb.
All curb grinding shall produce a smooth, uniform surface.
At completion of grinding, the ramp shall meet all applicable elevations, grade, and transition requirements as detailed for new construction in;
Special Detail - Grinding Miscellaneous Concrete and Standard Plate 651.02, as well as all ADA Requirements



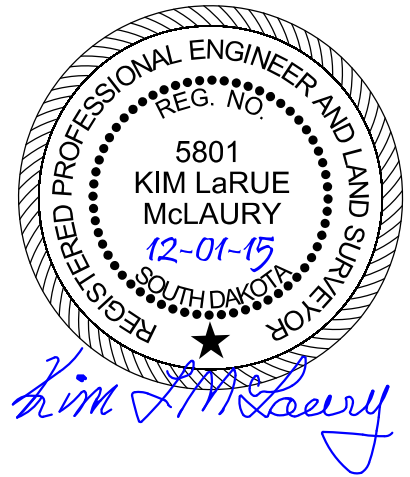
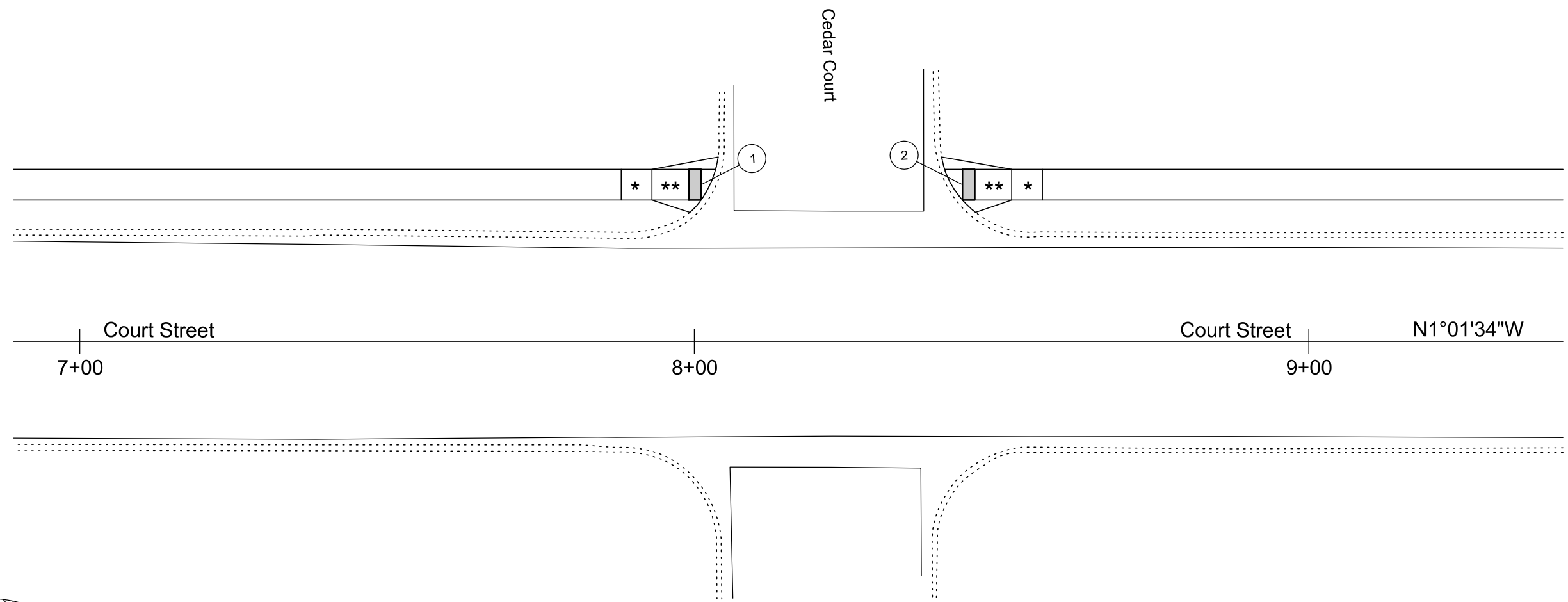
Kim LaRue McLaury

CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	38	65



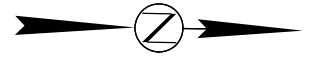
- 1 8+01.10 - 25.50' L
Center Type 2
Curb Ramp
- 2 8+43.65 - 25.50' L
Center Type 2
Curb Ramp



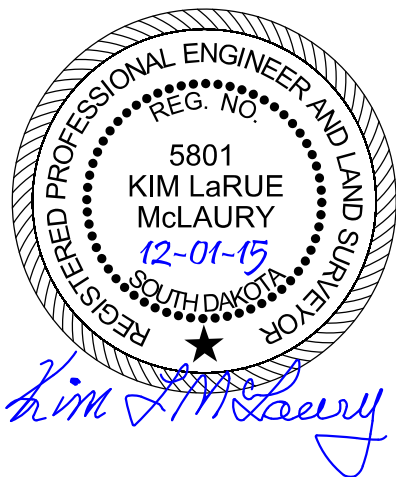
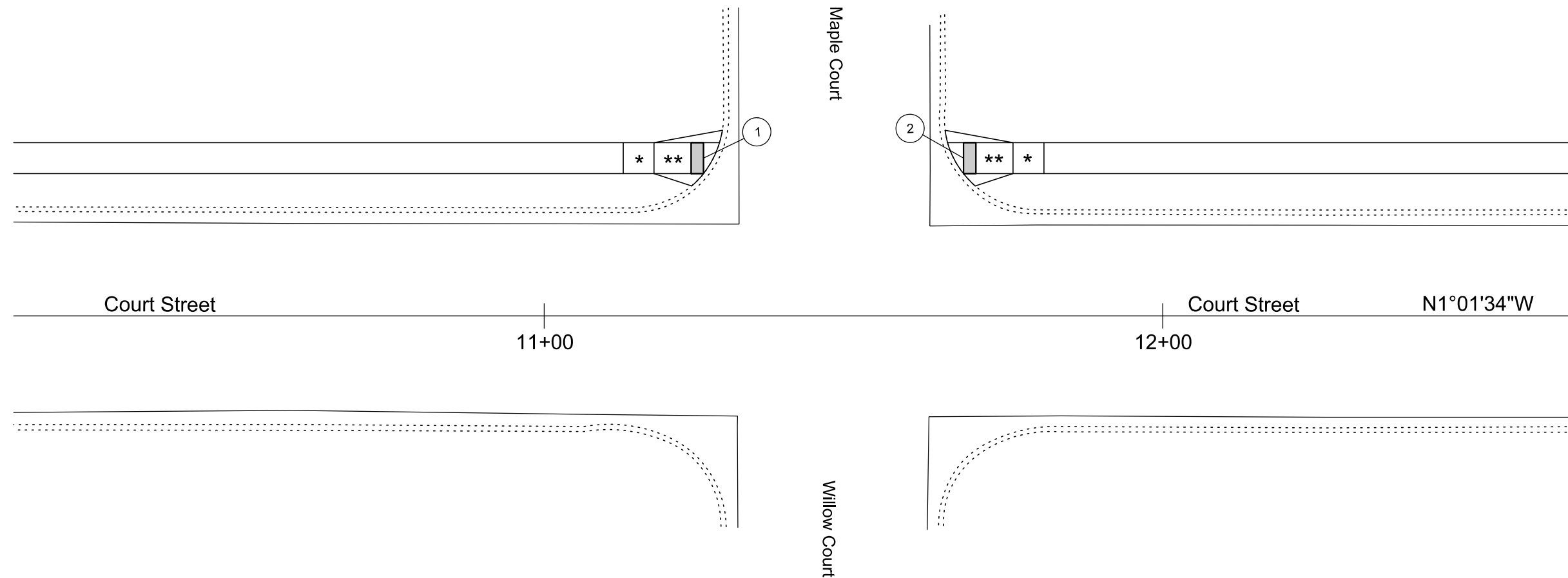
- Legend:
- * Turning Space with 2% maximum slope
 - ** Curb Ramp with 8.3% maximum slope and 2% maximum cross slope
 - *** Curb Ramp with 5.0% maximum slope and 2% maximum cross slope
 - ▭ Detectable Warning

CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	39	65



- 1 11+25.76 - 25.50' L
Center Type 2
Curb Ramp
- 2 11+67.79 - 25.50' L
Center Type 2
Curb Ramp



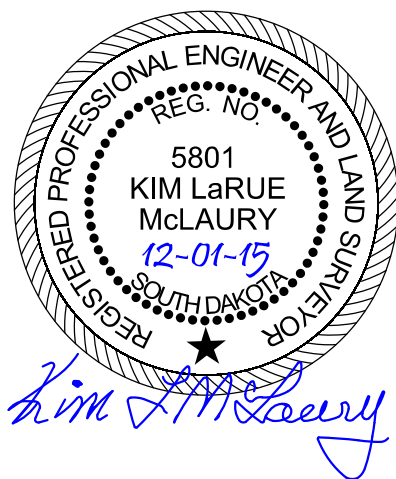
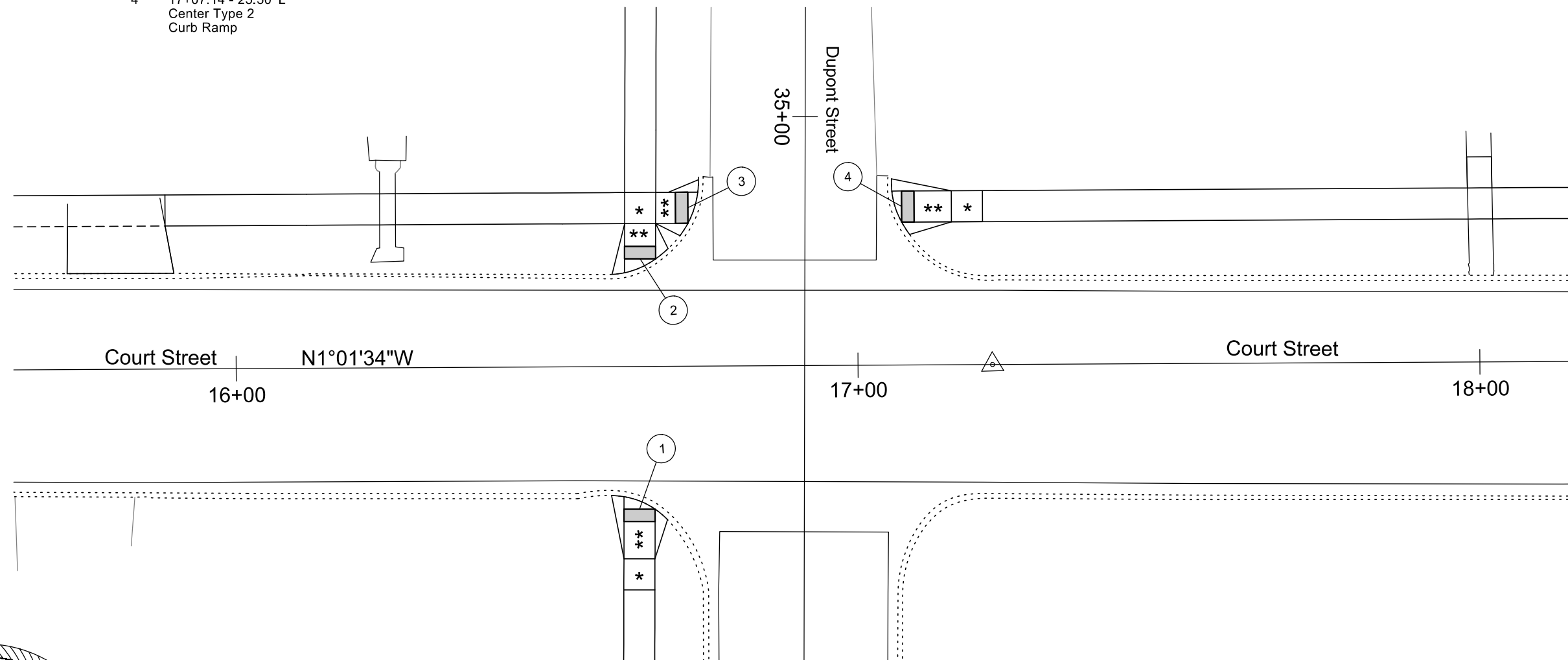
- Legend:
- * Turning Space with 2% maximum slope
 - ** Curb Ramp with 8.3% maximum slope and 2% maximum cross slope
 - ** Curb Ramp with 5.0% maximum slope and 2% maximum cross slope
 - ▭ Detectable Warning

CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	40	65



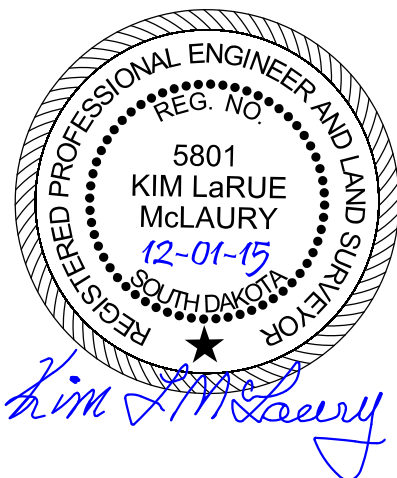
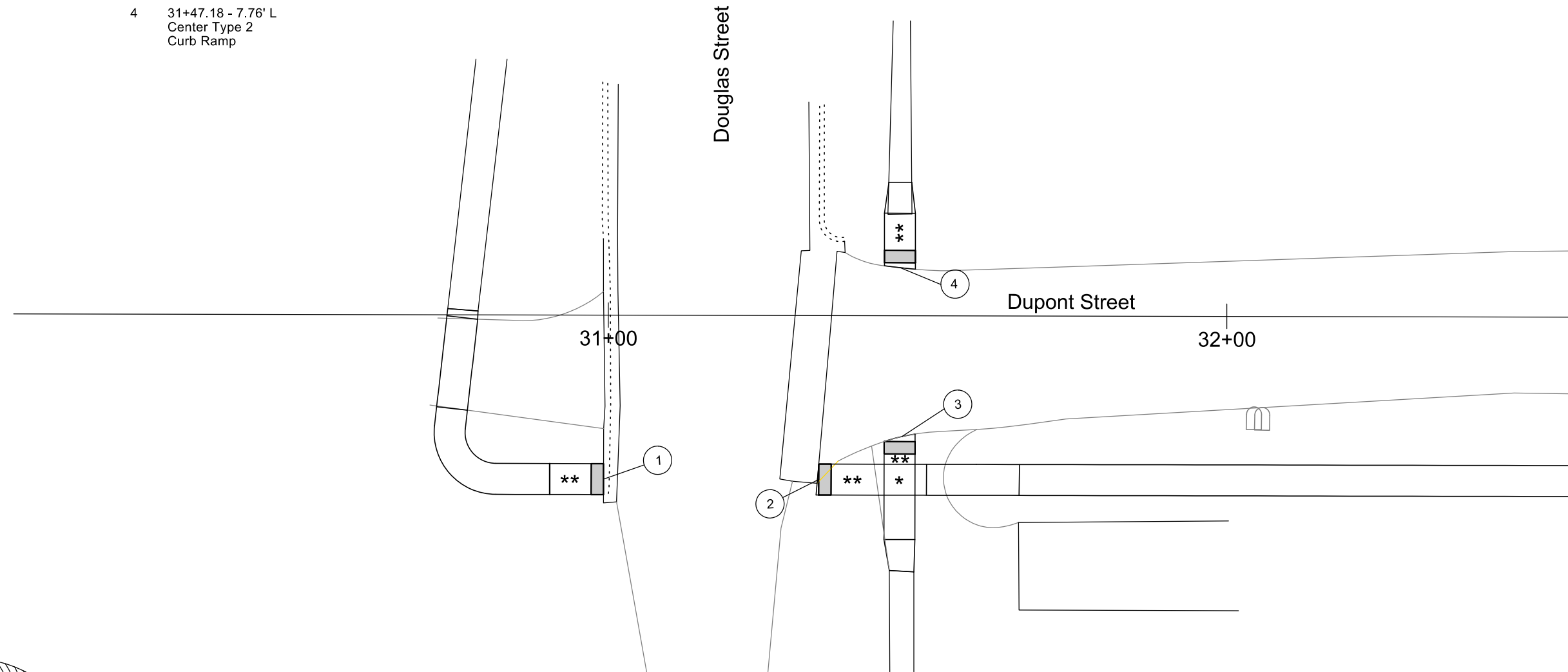
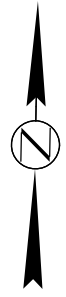
- 1 16+64.74 - 22.94' R
Center Type 2
Curb Ramp
- 2 16+65.04 - 17.32' L
Center Type 2
Curb Ramp
- 3 16+72.77 - 25.50' L
Center Type 2
Curb Ramp
- 4 17+07.14 - 25.50' L
Center Type 2
Curb Ramp



- Legend:
- * Turning Space with 2% maximum slope
 - ** Curb Ramp with 8.3% maximum slope and 2% maximum cross slope
 - *** Curb Ramp with 5.0% maximum slope and 2% maximum cross slope
 - ▭ Detectable Warning

CURB RAMP DETAILS

- 1 30+99.29 - 26.50' R
Center Type 2
Curb Ramp
- 2 31+34.08 - 26.50' L
Center Type 2
Curb Ramp
- 3 31+49.90 - 19.68' R
Center Type 2
Curb Ramp
- 4 31+47.18 - 7.76' L
Center Type 2
Curb Ramp

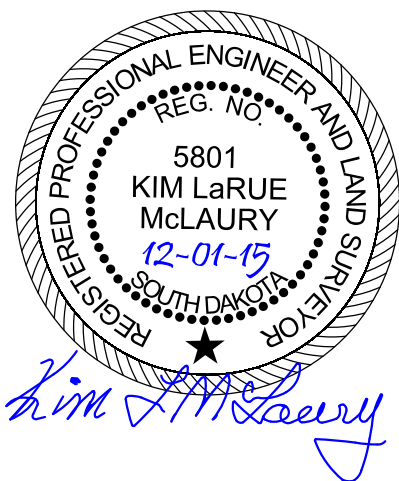
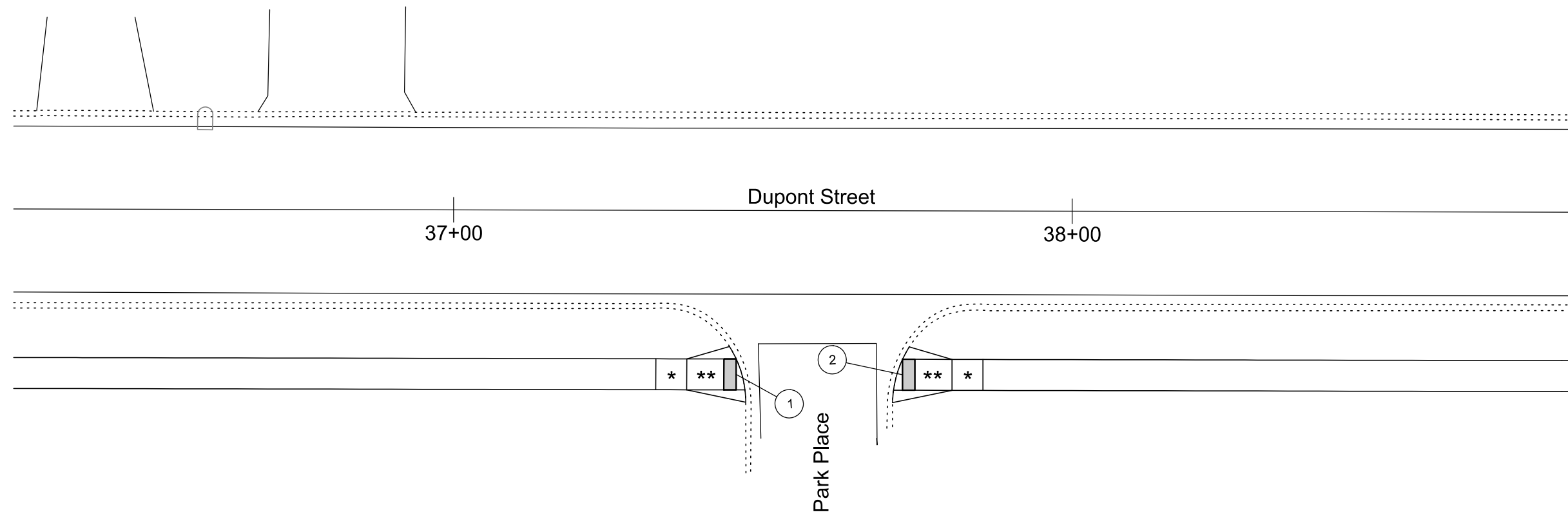
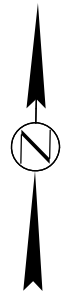


- Legend:
- * Turning Space with 2% maximum slope
 - ** Curb Ramp with 8.3% maximum slope and 2% maximum cross slope
 - *** Curb Ramp with 5.0% maximum slope and 2% maximum cross slope
 - ▭ Detectable Warning

CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	42	65

- 1 37+45.74 - 26.50' R
Center Type 2
Curb Ramp
- 2 37+72.63 - 26.50' R
Center Type 2
Curb Ramp

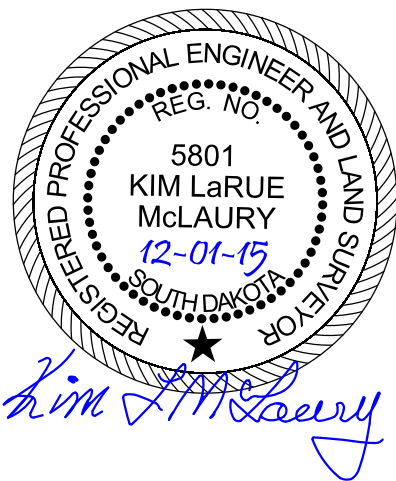
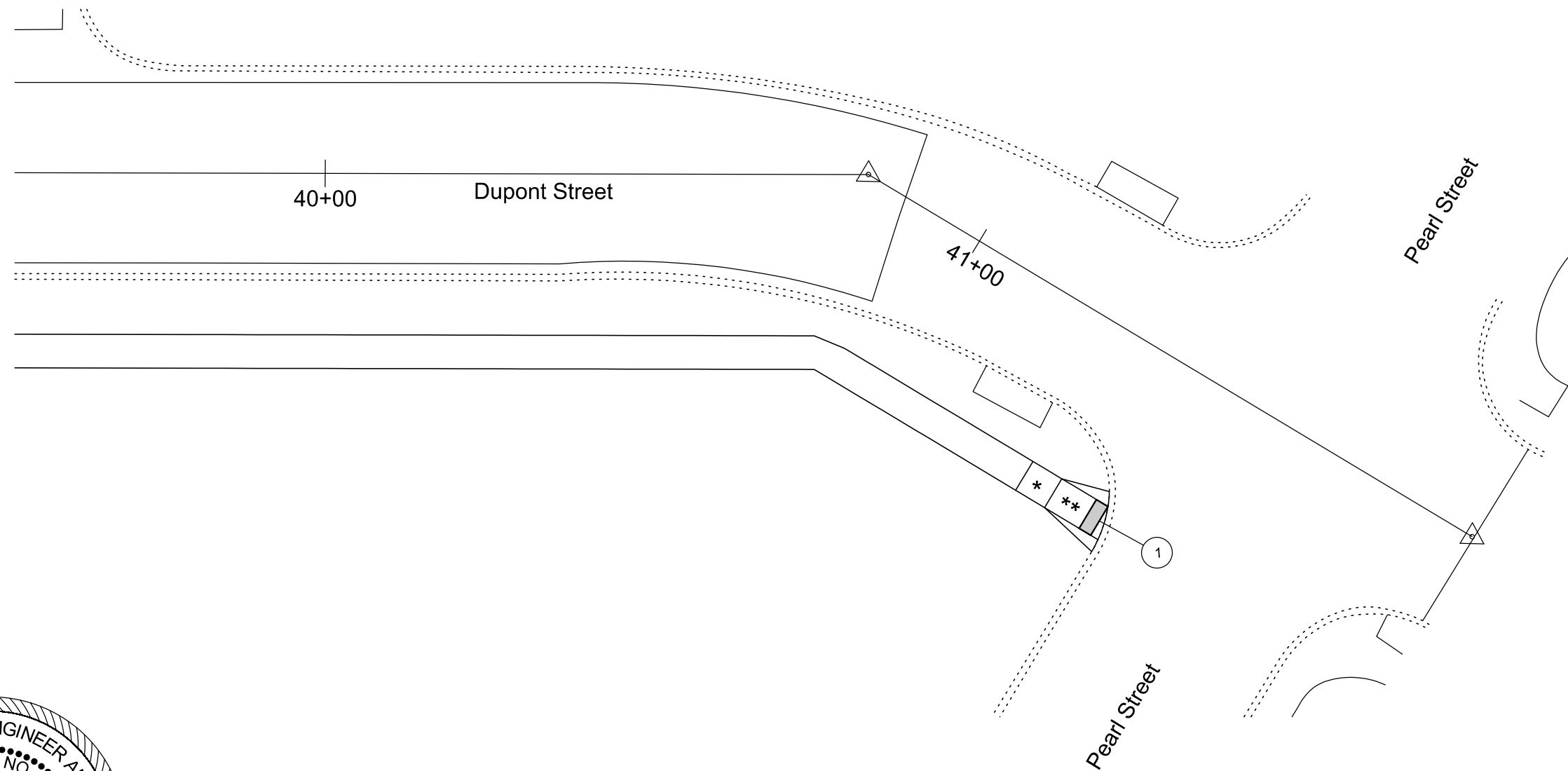
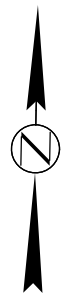


- Legend:
- * Turning Space with 2% maximum slope
 - ** Curb Ramp with 8.3% maximum slope and 2% maximum cross slope
 - *** Curb Ramp with 5.0% maximum slope and 2% maximum cross slope
 - Detectable Warning

CURB RAMP DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	43	65

1 41+36.68 - 26.50' L
Center Type 2
Curb Ramp



Legend:

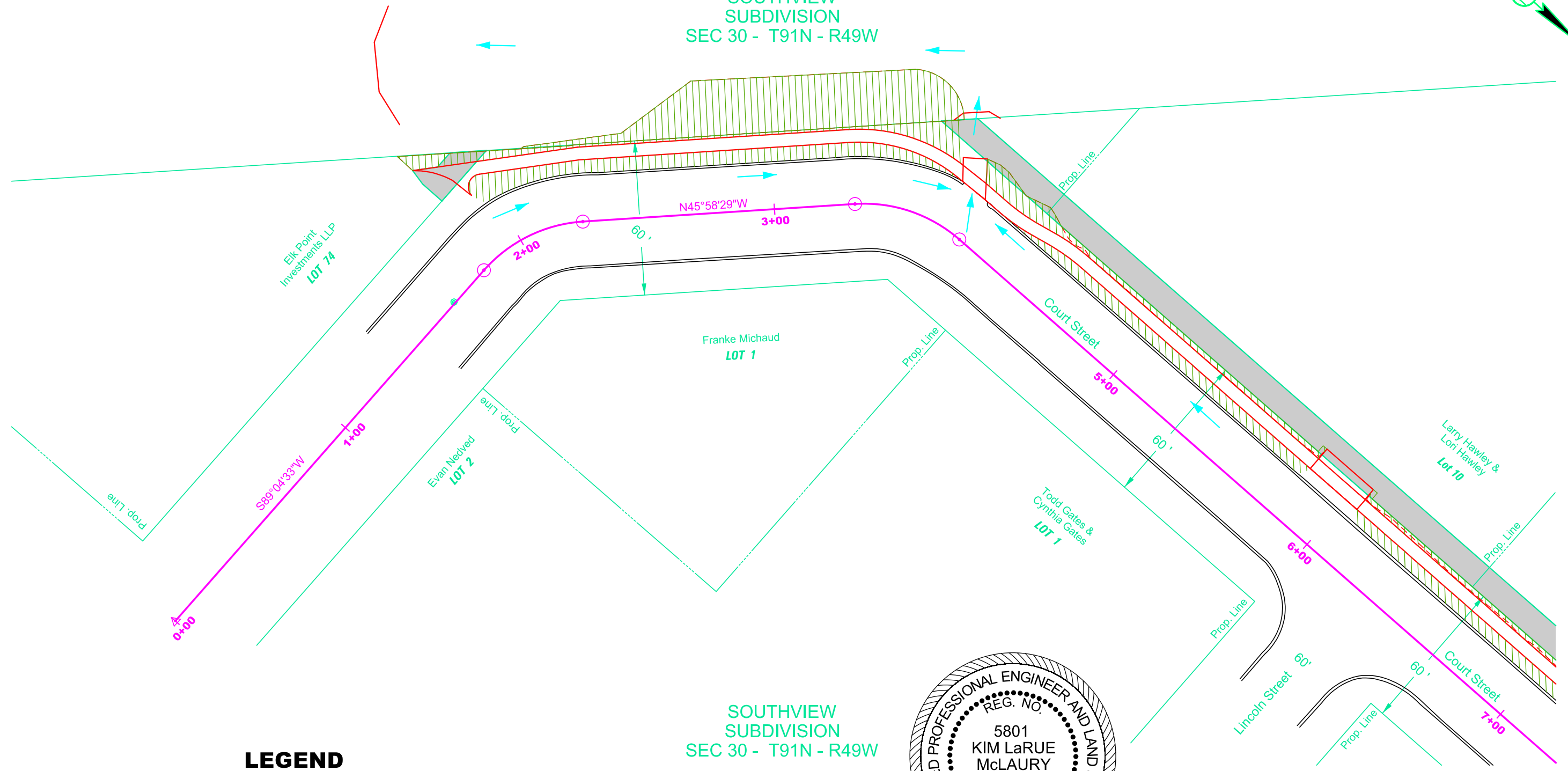
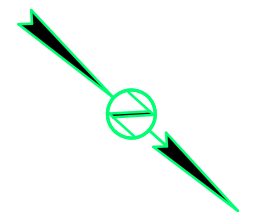
- * Turning Space with 2% maximum slope
- ** Curb Ramp with 8.3% maximum slope and 2% maximum cross slope
- *** Curb Ramp with 5.0% maximum slope and 2% maximum cross slope
- Detectable Warning

EROSION AND SEDIMENT CONTROL PLAN

Install High Flow Silt Fence
at the following locations:
1+91 L to 2+00 L 50 Ft
3+56 L to 3+65 L 20 Ft

ELK POINT

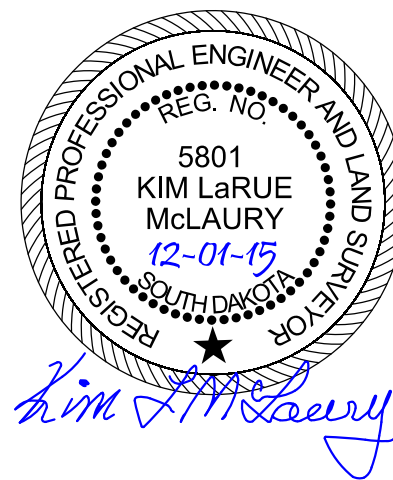
SOUTHVIEW
SUBDIVISION
SEC 30 - T91N - R49W



LEGEND

- | | | | |
|---|-------------------------------|---|----------------------------|
|  | TYPE D PERMANENT SEED MIXTURE |  | SILT FENCE |
|  | EROSION CONTROL BLANKET |  | SEDIMENT CONTROL AT INLETS |
|  | TEMPORARY EASEMENT |  | DRAINAGE ARROW |

SOUTHVIEW
SUBDIVISION
SEC 30 - T91N - R49W

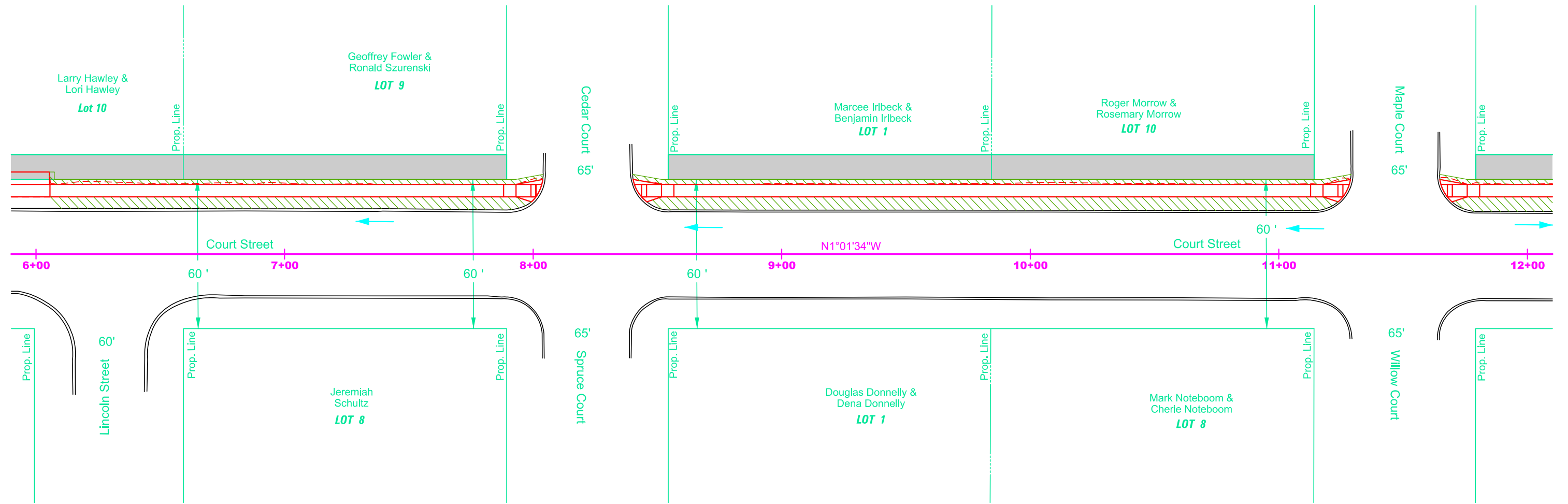
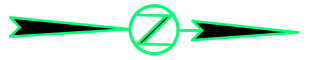


STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	45	65

EROSION AND SEDIMENT CONTROL PLAN

ELK POINT

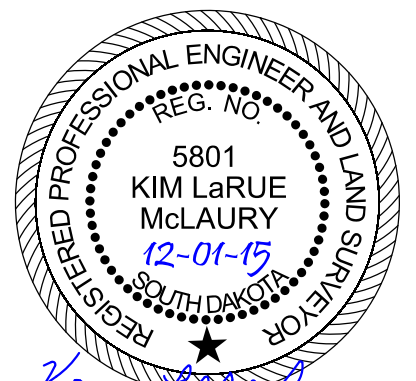
SOUTHVIEW
SUBDIVISION
SEC 19 - T91N - R49W



LEGEND

- TYPE D PERMANENT SEED MIXTURE
- EROSION CONTROL BLANKET
- TEMPORARY EASEMENT
- SILT FENCE
- SEDIMENT CONTROL AT INLETS
- DRAINAGE ARROW

SOUTHVIEW
SUBDIVISION
SEC 19 - T91N - R49W



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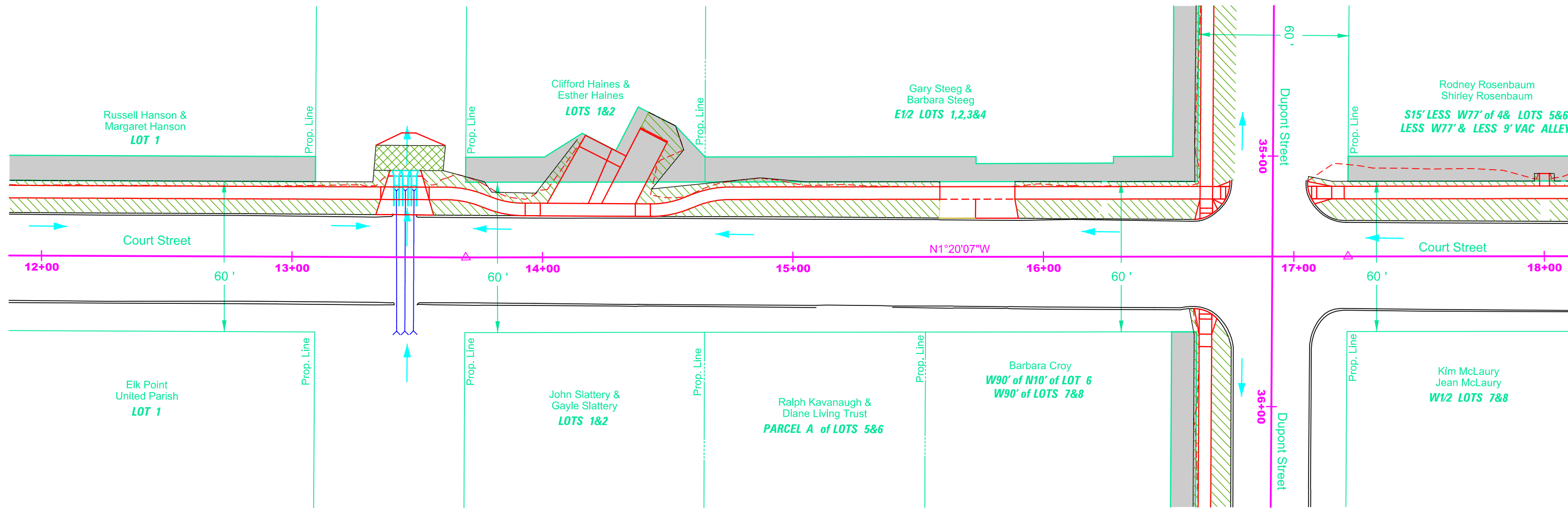
EROSION AND SEDIMENT CONTROL PLAN

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	46	65

Install High Flow Silt Fence
at the following locations:
13+33 L TO 13+61 L 30 Ft

Install Erosion Control Blanket
at the following locations:
13+33 L TO 13+61 L 31 SqYd

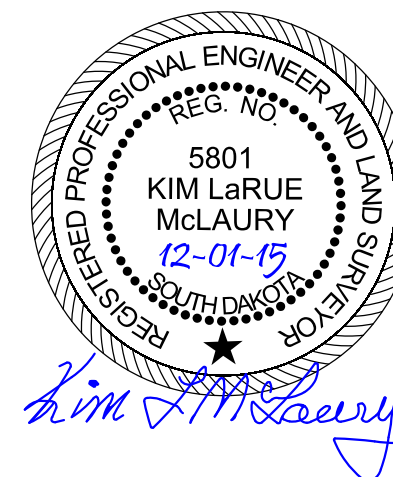
ELK POINT
SOUTHVIEW
SUBDIVISION
SEC 19 - T91N - R49W



SOUTHVIEW
SUBDIVISION
SEC 19 - T91N - R49W

LEGEND

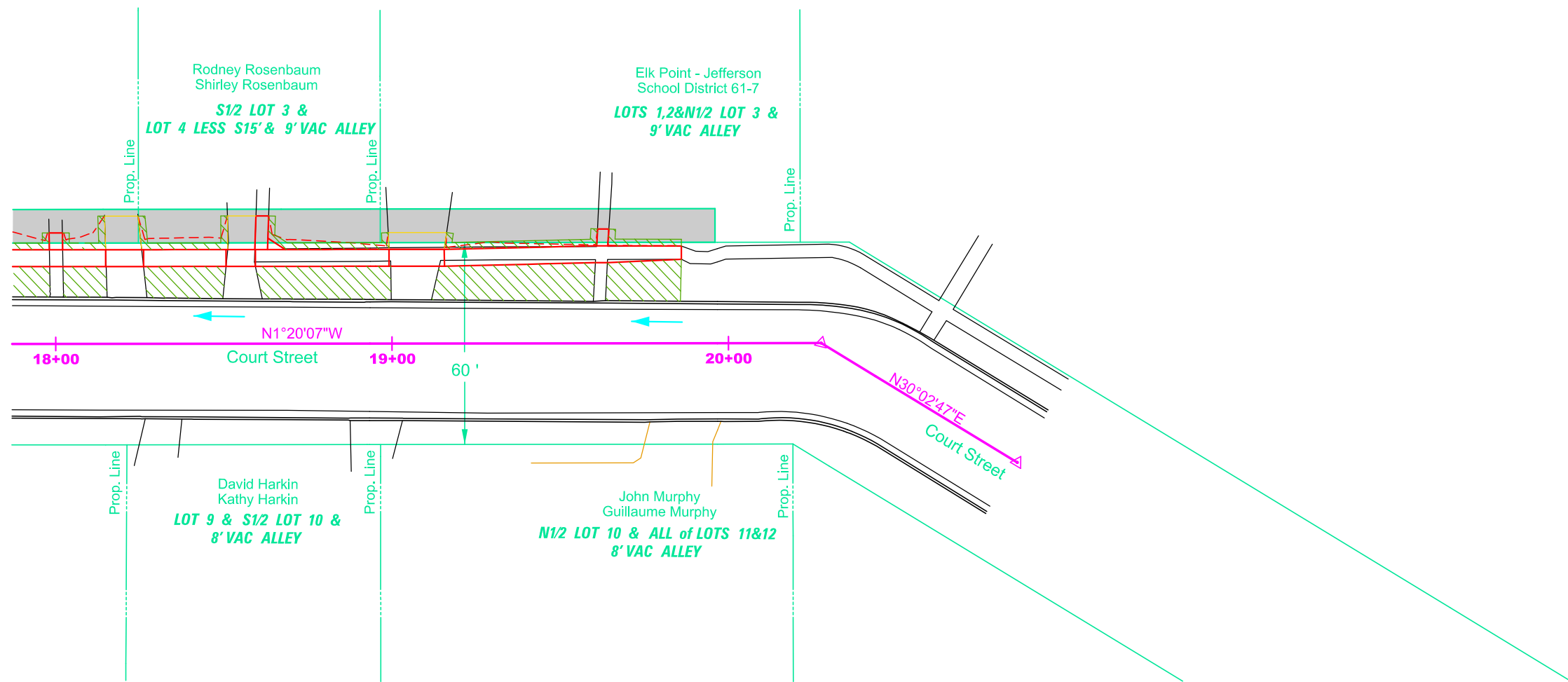
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|--|-------------------------------|--|----------------------------|
| | TYPE D PERMANENT SEED MIXTURE | | SILT FENCE |
| | EROSION CONTROL BLANKET | | SEDIMENT CONTROL AT INLETS |
| | TEMPORARY EASEMENT | | DRAINAGE ARROW |



EROSION AND SEDIMENT CONTROL PLAN

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	47	65

ELK POINT
 SOUTHVIEW
 SUBDIVISION
 SEC 19 - T91N - R49W



LEGEND

	TYPE D PERMANENT SEED MIXTURE		SILT FENCE
	EROSION CONTROL BLANKET		SEDIMENT CONTROL AT INLETS
	TEMPORARY EASEMENT		DRAINAGE ARROW

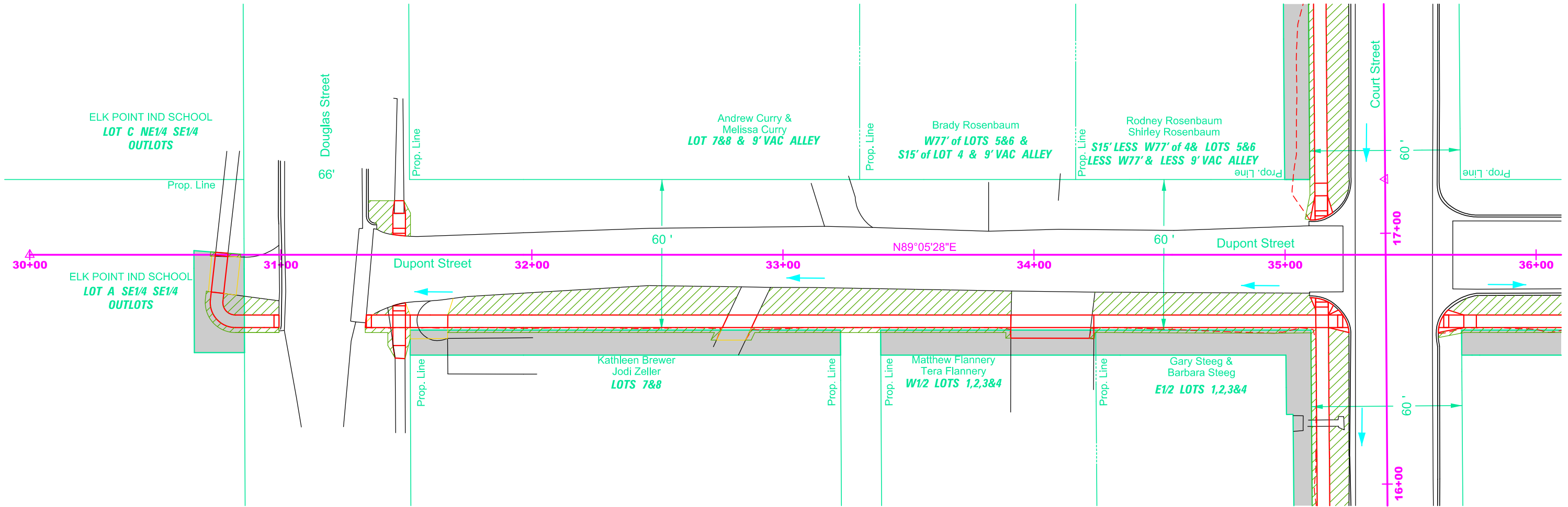
SOUTHVIEW
 SUBDIVISION
 SEC 19 - T91N - R49W



EROSION AND SEDIMENT CONTROL PLAN

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	48	65

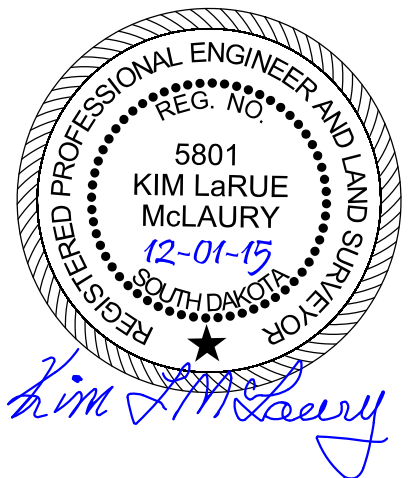
ELK POINT
SOUTHVIEW
SUBDIVISION
SEC 19 - T91N - R49W



SOUTHVIEW
SUBDIVISION
SEC 19 - T91N - R49W

LEGEND

-  TYPE D PERMANENT SEED MIXTURE
-  SILT FENCE
-  EROSION CONTROL BLANKET
-  SEDIMENT CONTROL AT INLETS
-  DRAINAGE ARROW
-  TEMPORARY EASEMENT



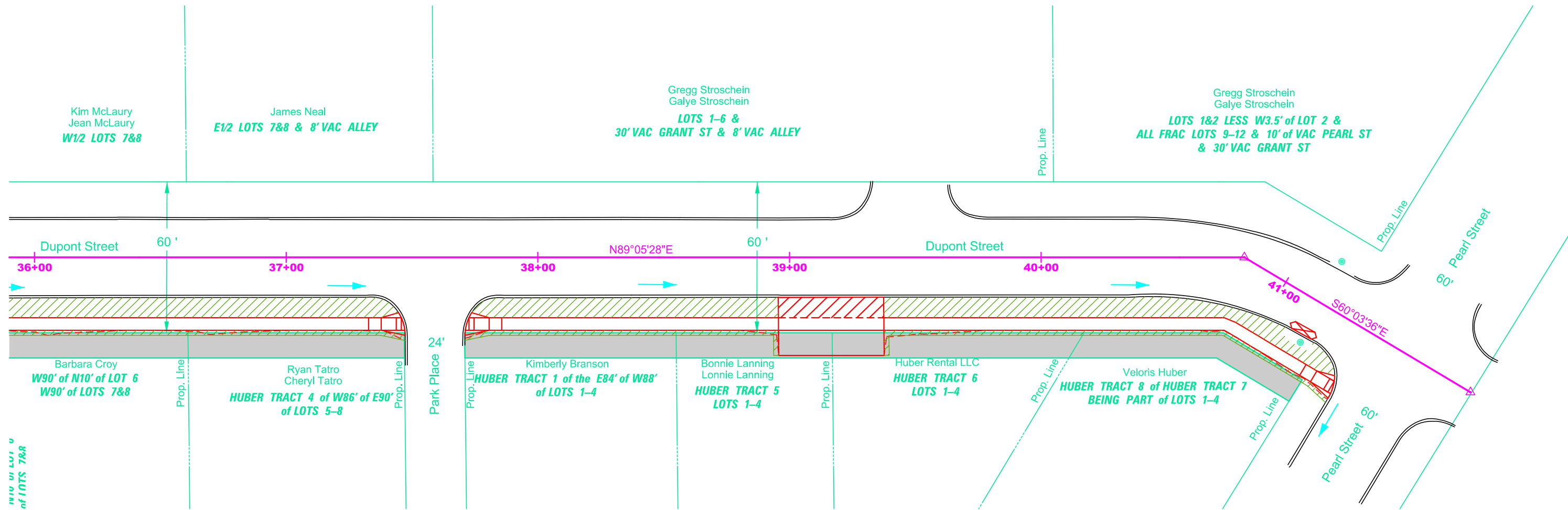
EROSION AND SEDIMENT CONTROL PLAN

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	49	65

Install Sediment Control at Inlets for Type S Reinforced Concrete Drop Inlets at the following locations:
41+15.85 - 14.45' R 12 Ft

ELK POINT

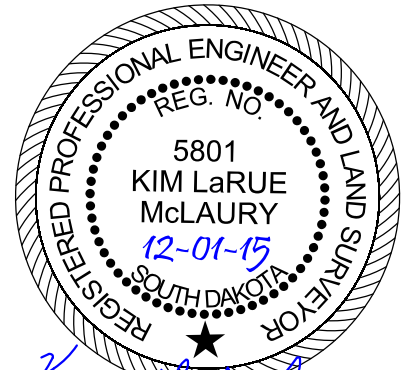
SOUTHVIEW SUBDIVISION
SEC 19 - T91N - R49W



LEGEND

- TYPE D PERMANENT SEED MIXTURE
- EROSION CONTROL BLANKET
- TEMPORARY EASEMENT
- SILT FENCE
- SEDIMENT CONTROL AT INLETS
- DRAINAGE ARROW

SOUTHVIEW SUBDIVISION
SEC 19 - T91N - R49W

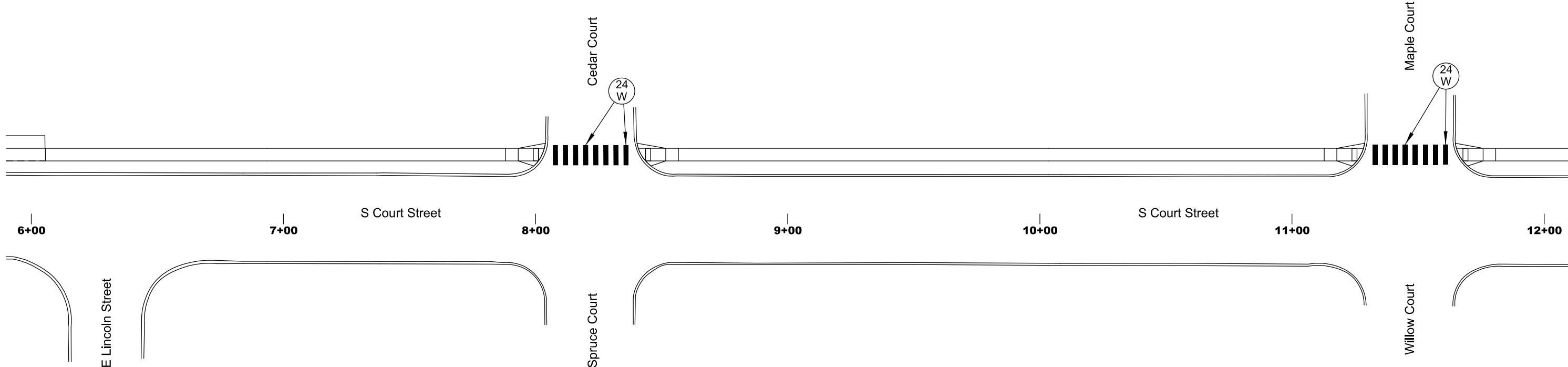


Kim LaRue McLaury



PAVEMENT MARKING LAYOUT

COURT STREET

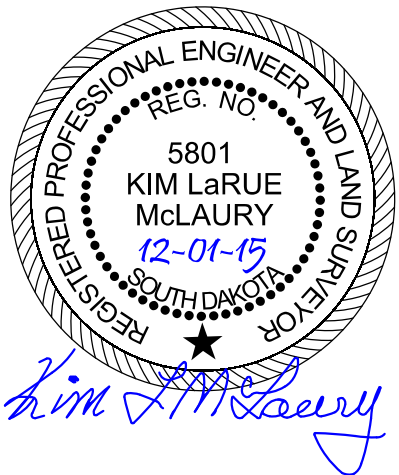
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	50	65



LEGEND

-  PAVEMENT MARKING PAINT, 24" WHITE
-  PAVEMENT MARKING PAINT, AREA WHITE

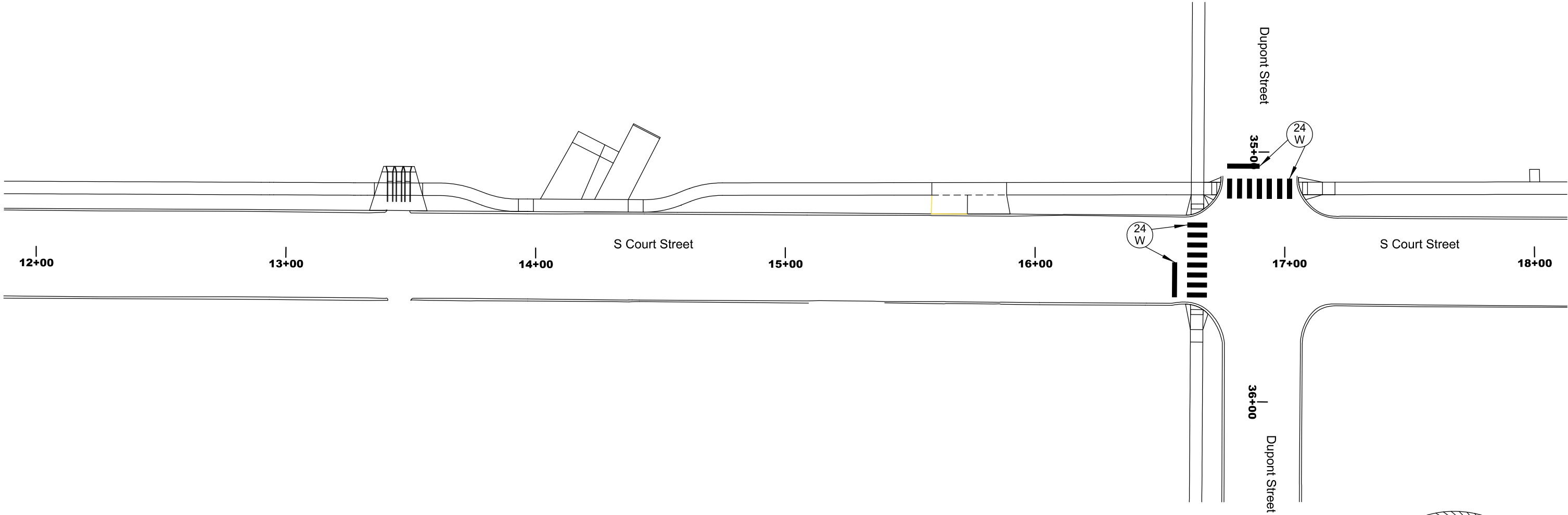
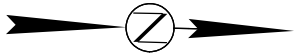
KEY	ITEM	ESTIMATED QUANTITY	UNIT
24 W	PAVEMENT MARKING PAINT, 24" WHITE	477	FT
A W	PAVEMENT MARKING PAINT, AREA WHITE	11	SQFT





PAVEMENT MARKING LAYOUT

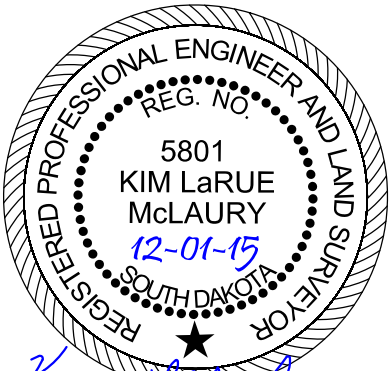
COURT STREET

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	51	65



LEGEND

-  PAVEMENT MARKING PAINT, 24" WHITE
-  PAVEMENT MARKING PAINT, AREA WHITE

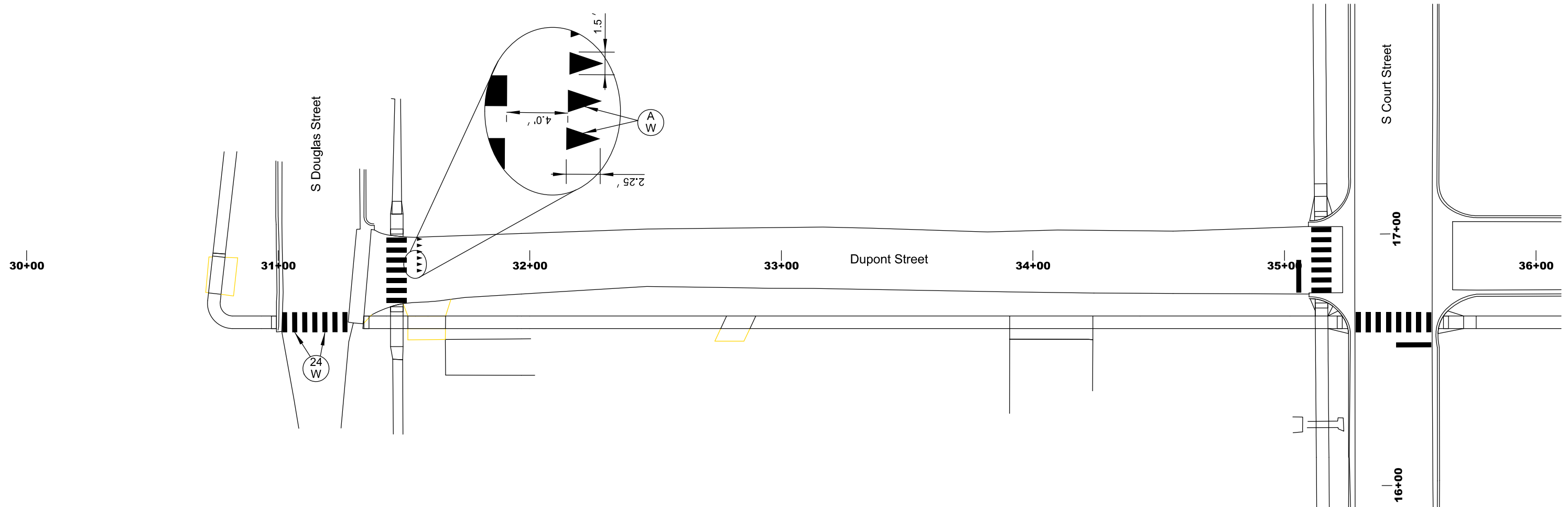
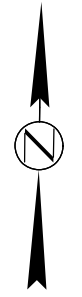


Kim LaRue McLaury



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	52	65

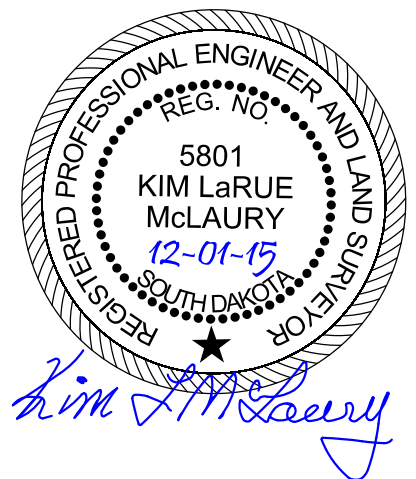
PAVEMENT MARKING LAYOUT

DUPONT STREET



LEGEND

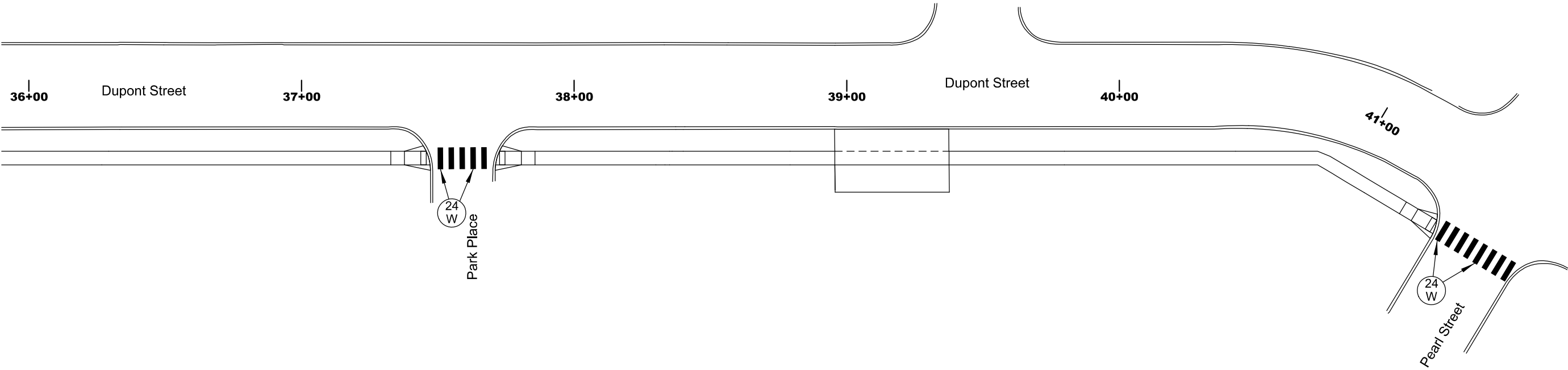
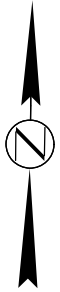
-  PAVEMENT MARKING PAINT, 24" WHITE
-  PAVEMENT MARKING PAINT, AREA WHITE





PAVEMENT MARKING LAYOUT

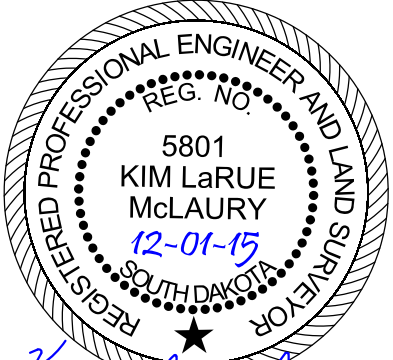
MAIN STREET

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	53	65



LEGEND

-  PAVEMENT MARKING PAINT, 24" WHITE
-  PAVEMENT MARKING PAINT, AREA WHITE

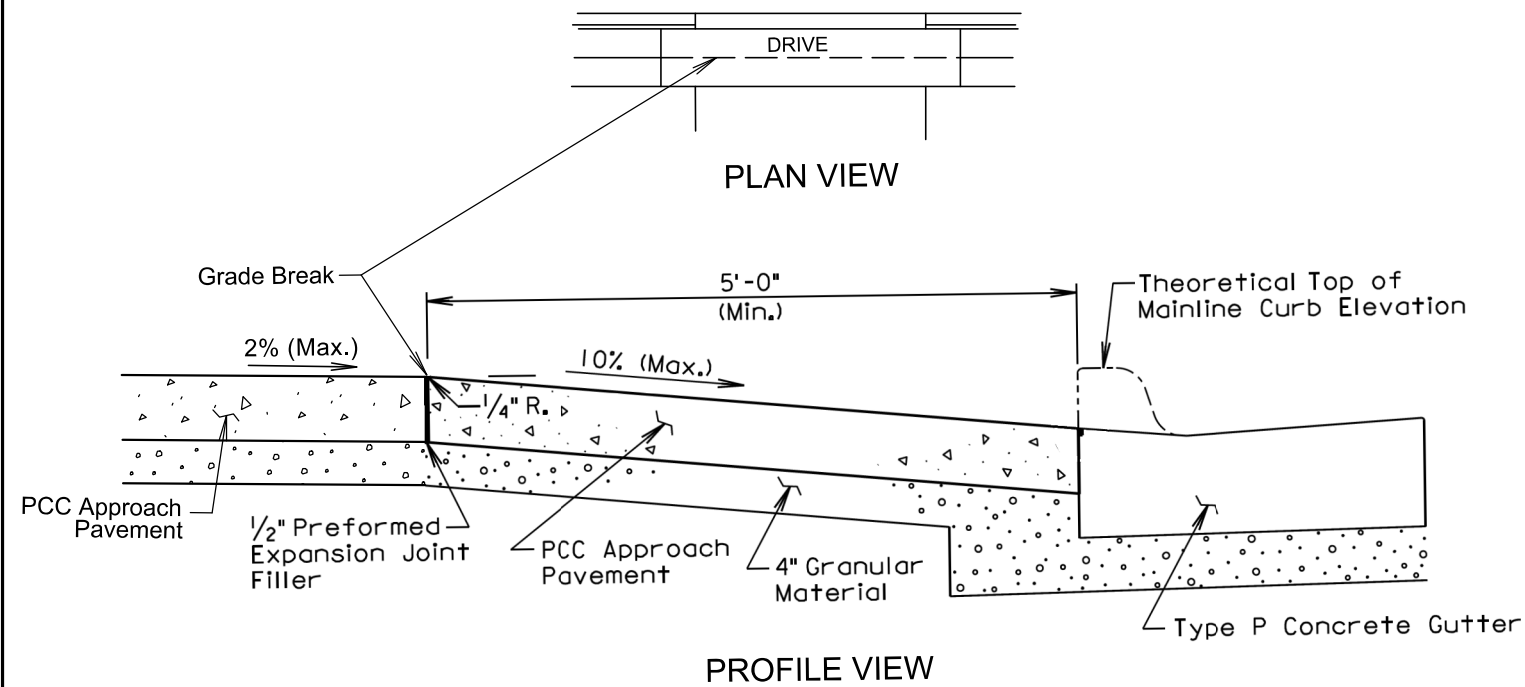


Kim LaRue McLaury

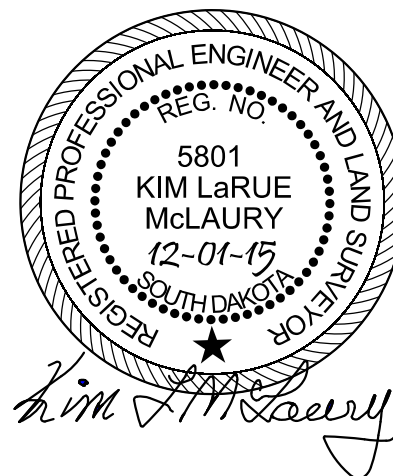
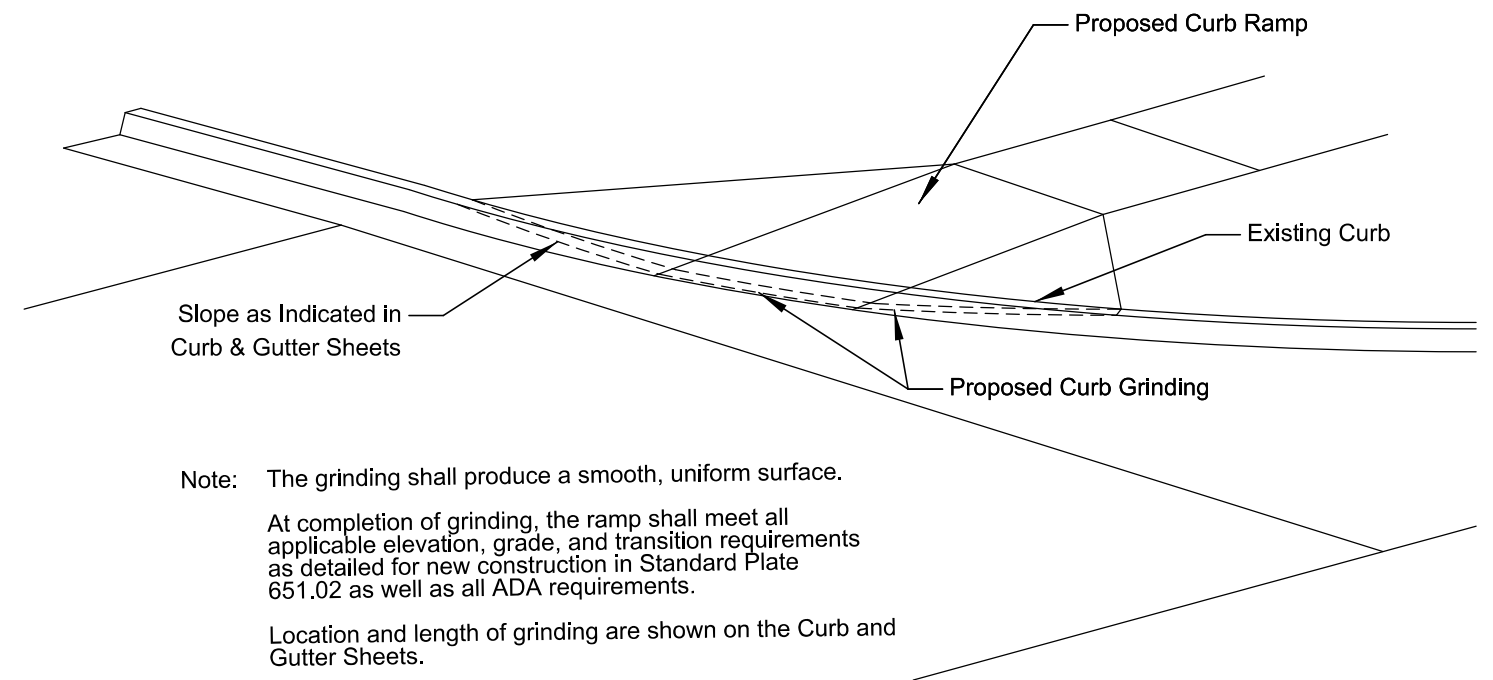
SPECIAL DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	54	65

GRADE BREAK FOR TYPE A APPROACH PAVEMENT



GRINDING MISCELLANEOUS CONCRETE



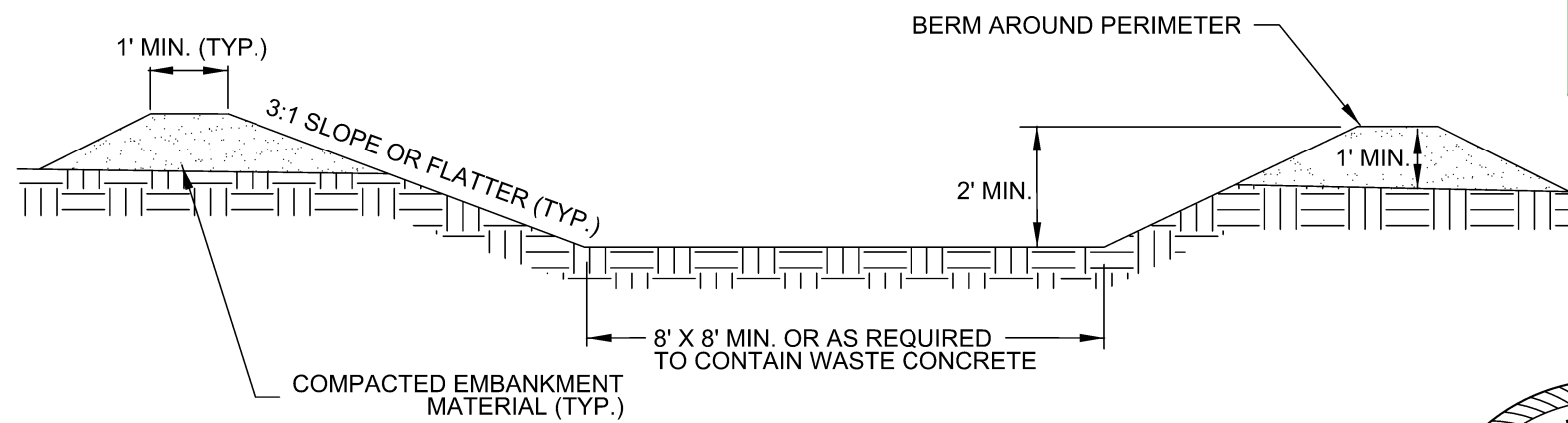
SPECIAL DETAILS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P SRTS (38)	55	65

CONCRETE WASHOUT FACILITY

NOTES:

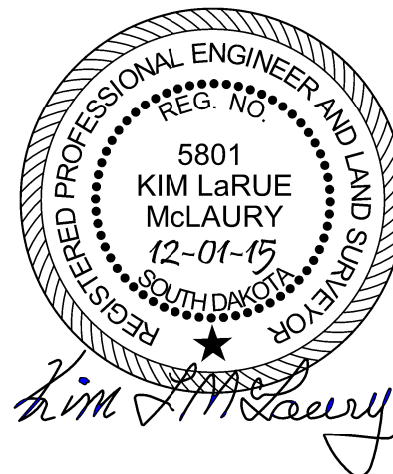
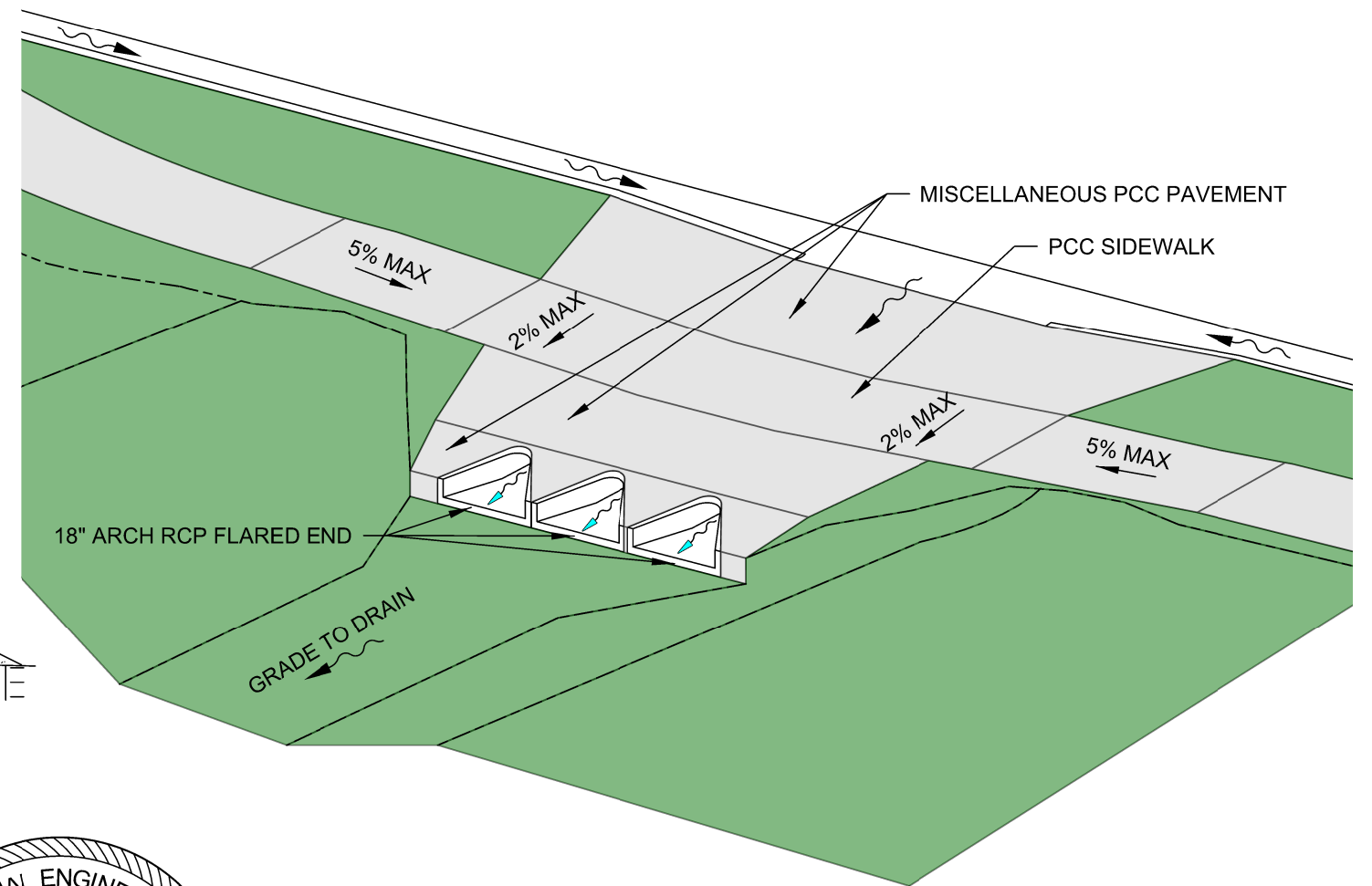
1. CONCRETE WASHOUT FACILITY SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. A SIGN SHALL BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE CWF.
3. THE CONCRETE WASHOUT FACILITY SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
4. WHEN CWF ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE AND MATERIALS USED TO CONSTRUCT THE CWF SHALL BE REMOVED AND DISPOSED OF.
5. WHEN THE CONCRETE WASHOUT FACILITY IS REMOVED, THE HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE SHALL BE BACKFILLED, REPAIRED AND STABILIZED.

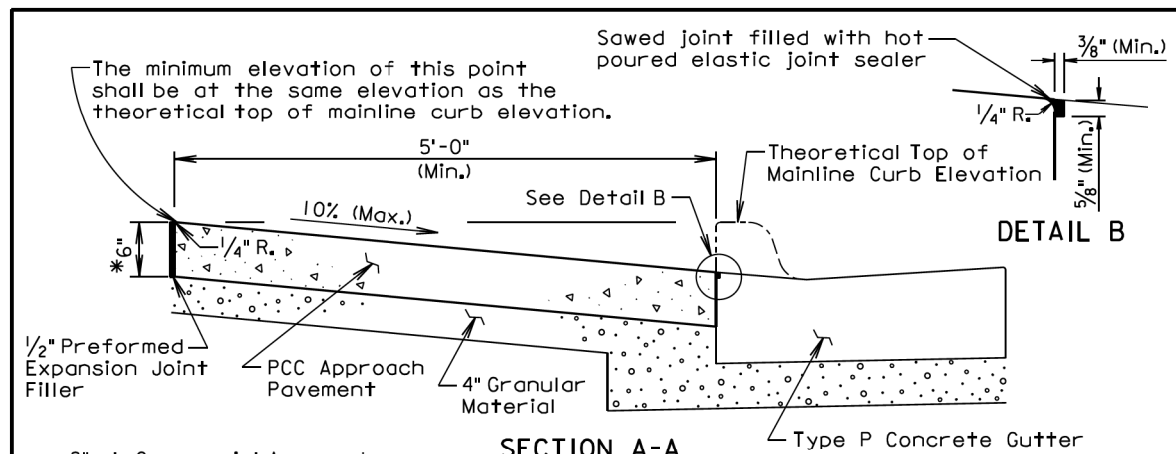


CROSS SECTIONAL VIEW

MISCELLANEOUS CONCRETE DETAIL

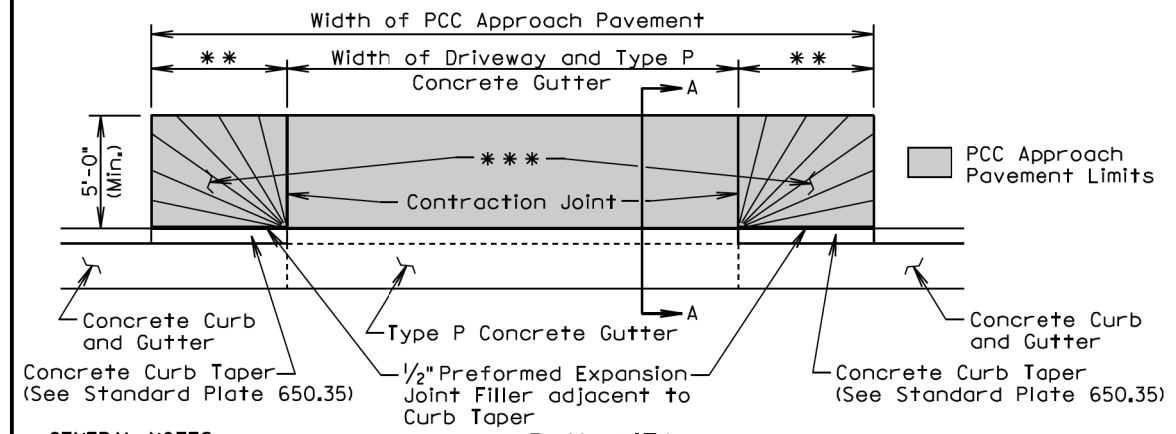
STA 13+45 R





DETAIL B

- * 8" at Commercial Approaches
- ** Width for 6" high curb is 6' (See Standard Plate 650.35)
- *** Within these areas, the surface of the type A PCC approach pavement shall be sloped transitionally as approved by the Engineer.



PLAN VIEW

GENERAL NOTES:

The concrete for the type A PCC approach pavement and adjacent driveway shall comply with the requirements of the Specifications for class M6 concrete unless otherwise stated in the plans.

Contraction joints in the type A PCC approach pavement shall be 1/2 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 1/4 the thickness of the approach pavement. Additional contraction joints not shown in the Plan View shall be spaced as follows:

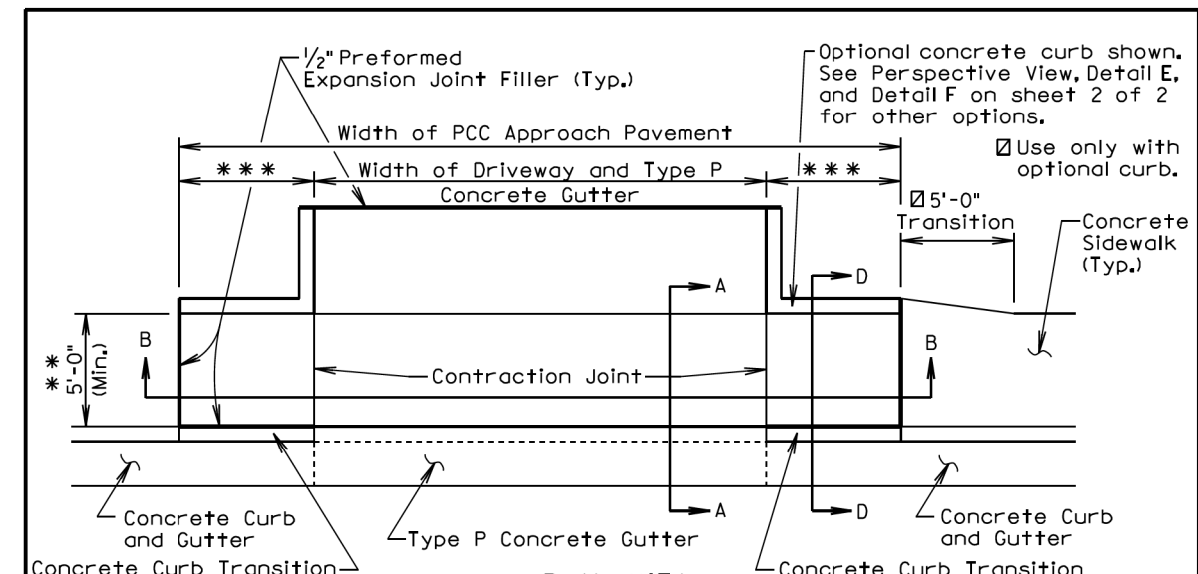
- One joint at the center of the approach for driveways 16' to 24' wide.
- Two joints spaced at equal intervals for driveways greater than 24' to 40' wide.

All costs for furnishing and placing the type A PCC approach pavement and constructing the expansion and contraction joints including labor, equipment, and materials including the earthen backfill shall be incidental to the contract unit price per square yard for the corresponding PCC Approach Pavement bid item.

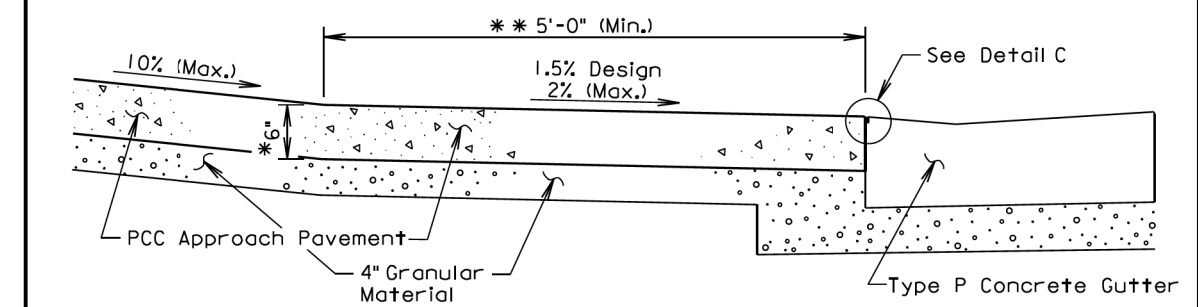
All costs for excavation required for placing the type A PCC approach pavement and granular material shall be incidental to the contract unit price per cubic yard for "Unclassified Excavation". All costs for furnishing and placing the granular material shall be incidental to the contract unit price per ton for the corresponding granular material bid item.

June 26, 2015

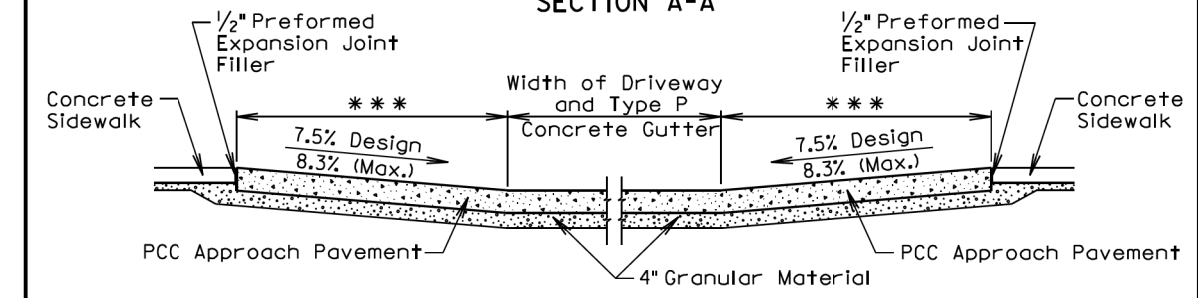
S D D O T	TYPE A PCC APPROACH PAVEMENT	PLATE NUMBER 380.40
	Published Date: 4th Qtr. 2015	Sheet 1 of 1



**PLAN VIEW
(Optional Curb Shown)**



SECTION A-A

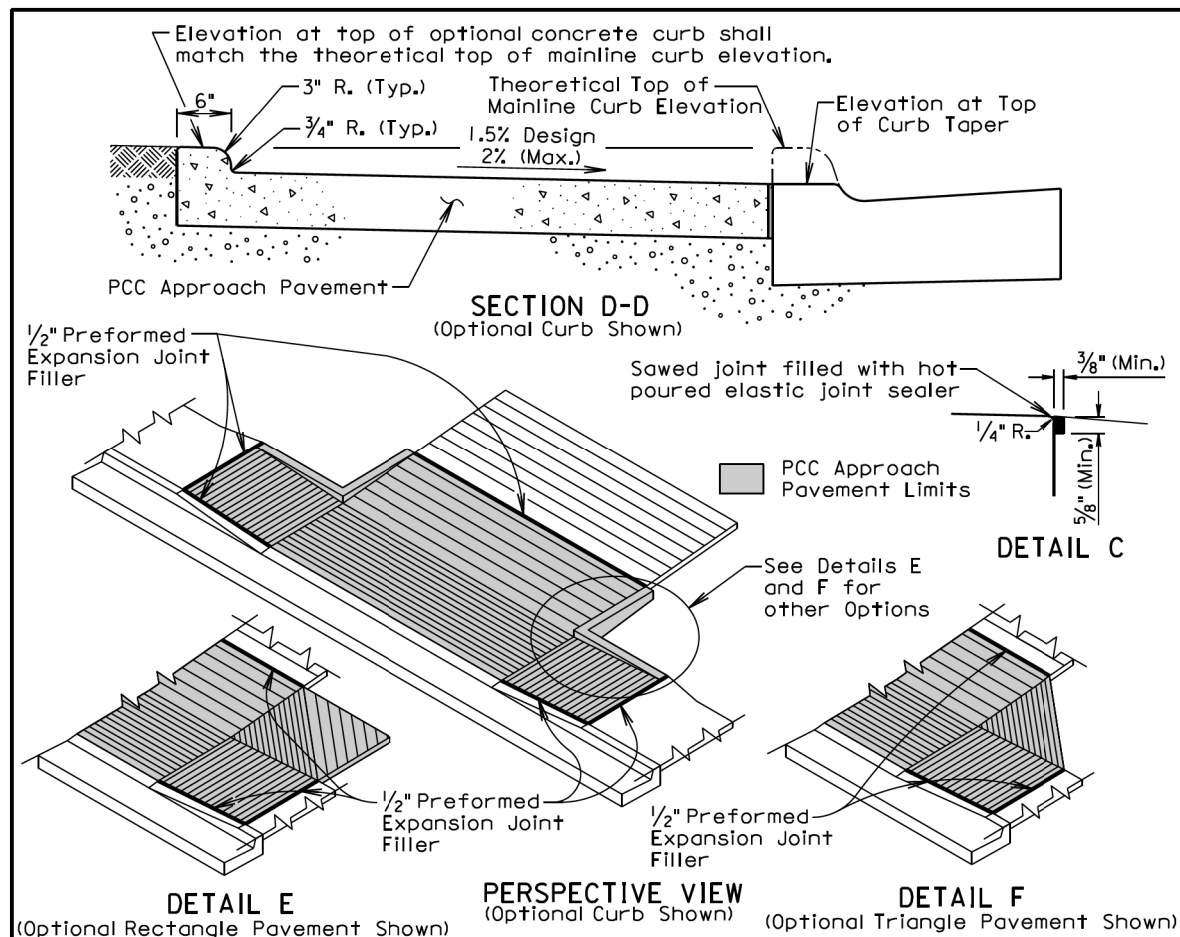


SECTION B-B

- * 8" at Commercial Approaches
- ** Sidewalk width is 5' unless specified otherwise in the plans. The cross slope of the sidewalk is designed at 1.5% and shall not be steeper than 2% unless specified otherwise in the plans.
- *** The slope of the type B PCC approach pavement in these areas shall match the slope of the concrete curb transition and the length shall not be longer than 15'. The slope is designed at 7.5% and shall not be steeper than 8.3% unless specified otherwise in the plans.

September 6, 2015

S D D O T	TYPE B PCC APPROACH PAVEMENT	PLATE NUMBER 380.41
	Published Date: 4th Qtr. 2015	Sheet 1 of 2



GENERAL NOTES:

Use the plan specified option for the pavement adjacent to the driveway and sidewalk. The options are shown above in the Perspective View, Detail E, and Detail F.

The concrete for the type B PCC approach pavement and adjacent driveway shall comply with the requirements of the Specifications for class M6 concrete unless otherwise stated in the plans.

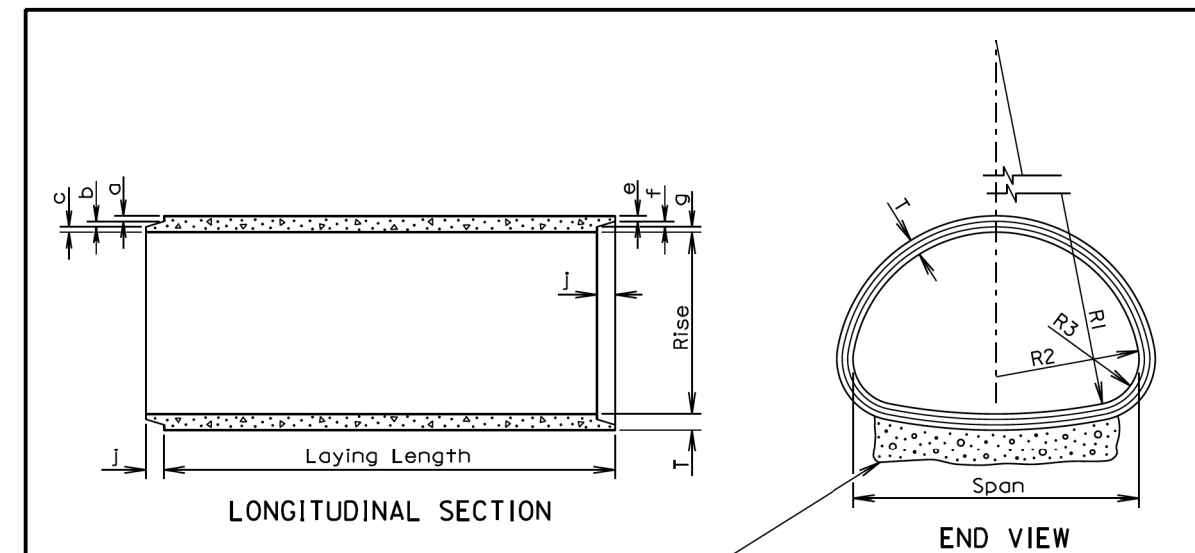
Contraction joints in the type B PCC approach pavement shall be 1/2 inches deep if formed in the fresh concrete using a suitable grooving tool. If a saw is used to cut the contraction joints, then the depth of the joint shall be at least 1/4 the thickness of the approach pavement. Additional contraction joints not shown in the Plan View shall be spaced as follows:

- One joint at the center of the approach for driveways 16' to 24' wide.
- Two joints spaced at equal intervals for driveways greater than 24' to 40' wide.

All costs for furnishing and placing the type B PCC approach pavement and constructing the expansion and contraction joints including labor, equipment, and materials including the earthen backfill shall be incidental to the contract unit price per square yard for the corresponding PCC Approach Pavement bid item.

All costs for excavation required for placing the type B PCC approach pavement and granular material shall be incidental to the contract unit price per cubic yard for "Unclassified Excavation". All costs for furnishing and placing the granular material shall be incidental to the contract unit price per ton for the corresponding granular material bid item.

September 6, 2015



TOLERANCES IN DIMENSIONS

Radial dimensions at joints: $\pm 1/8"$ for 65" span or less and $\pm 1/4"$ for longer spans.
 Rise and Span: $\pm 2\%$ of tabular values.
 Length of Joint (J): $\pm 1/4"$.
 Wall thickness (T): not less than design T by more than 5% or $3/16"$, whichever is greater.
 Laying length: shall not underrun by more than $1/2"$.

Gravel Bedding Material shall be supplied for 102" to 169" spans. It shall be placed to a thickness of 6" (Min.) x 85% of the Span x Length of culvert and shall conform to the gradation requirements for gravel surfacing except material may be screened or may be plan provided material.

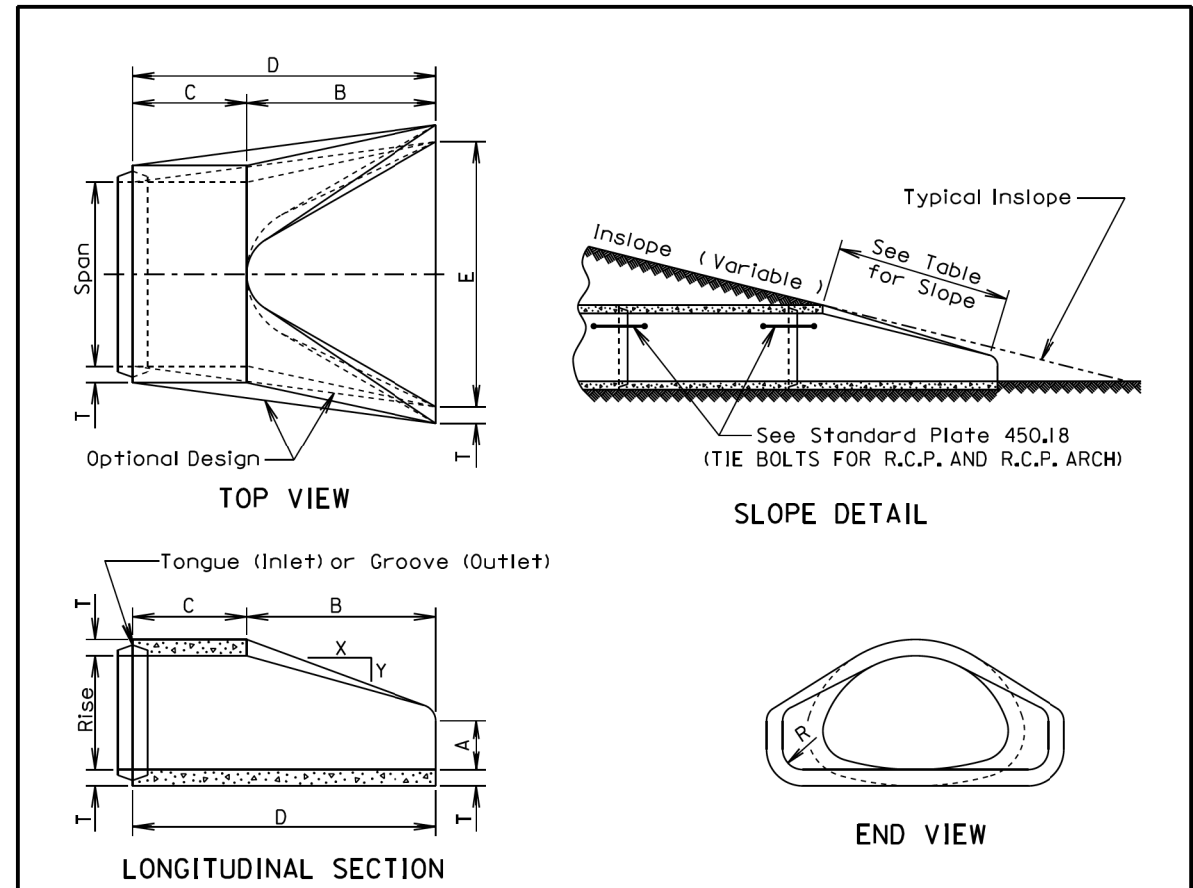
* Size (in.)	Approx. Wt./Ft. (lb.)	Rise (in.)	Span (in.)	T (in.)	a (in.)	b (in.)	c (in.)	j (in.)	e (in.)	f (in.)	g (in.)	R1 (in.)	R2 (in.)	R3 (in.)
18	170	13 1/2	22	2 1/2	1 3/8	3/8	3/4	2	1 1/8	3/8	1	27 1/2	13 3/4	5 1/4
24	320	18	28 1/2	3 1/2	1 5/8	1/2	1 3/8	3	1 3/8	1/2	1 5/8	40 11/16	14 3/4	4 5/8
30	450	22 1/2	36 1/4	4	1 13/16	5/8	1 9/16	3 1/2	1 9/16	5/8	1 13/16	51	18 3/4	6 1/8
36	600	26 5/8	43 3/4	4 1/2	2	3/4	1 3/4	4	1 3/4	3/4	2	62	22 1/2	6 1/2
42	740	31 5/16	51 1/8	4 1/2	2	3/4	1 3/4	4	1 3/4	3/4	2	73	26 1/4	7 3/4
48	890	36	58 1/2	5	2 1/4	3/4	2	5	2	3/4	2 1/4	84	30	8 7/8
54	1100	40	65	5 1/2	2 1/2	3/4	2 1/4	5	2 1/4	3/4	2 1/2	92 1/2	33 3/8	10
60	1400	45	73 1/2	6	3 5/16	3/4	1 15/16	5	2 3/4	3/4	2 1/2	105	37 1/2	11
72	1900	54	88	7	3 13/16	1	2 3/16	6	3 1/4	1	2 3/4	126	45	13 5/16
84	2500	62	102	8	4 1/8	1	2 7/8	6	3 1/2	1	3 1/2	162 1/2	52	14 1/2
96	3300	78	122 3/8	9	4 1/2	1	3 1/2	7	4	1	4	218	62	20
108	4200	88	138 1/2	10	5	1	4	7	4 1/2	1	4 1/2	269	70	22
120	5100	96 7/8	154	11	5 1/2	1	4 1/2	7	5	1	5	301 3/8	78	24
132	5100	106 1/2	168 3/4	10		1	4	7	4 1/2	1	4 1/2	329	85 5/8	26 7/8

* Equivalent Diameter of Circular R.C.P.

GENERAL NOTES:

Construction of R.C.P. Arch shall conform to the requirements of Section 990 of the Specifications. Not more than 2 four-foot sections shall be permitted near the ends of any culvert. Four-foot lengths shall be used only to secure the required length of culvert.

June 26, 2015



GENERAL NOTES:

Lengths of concrete pipe shown on plan sheets are between flared ends only.

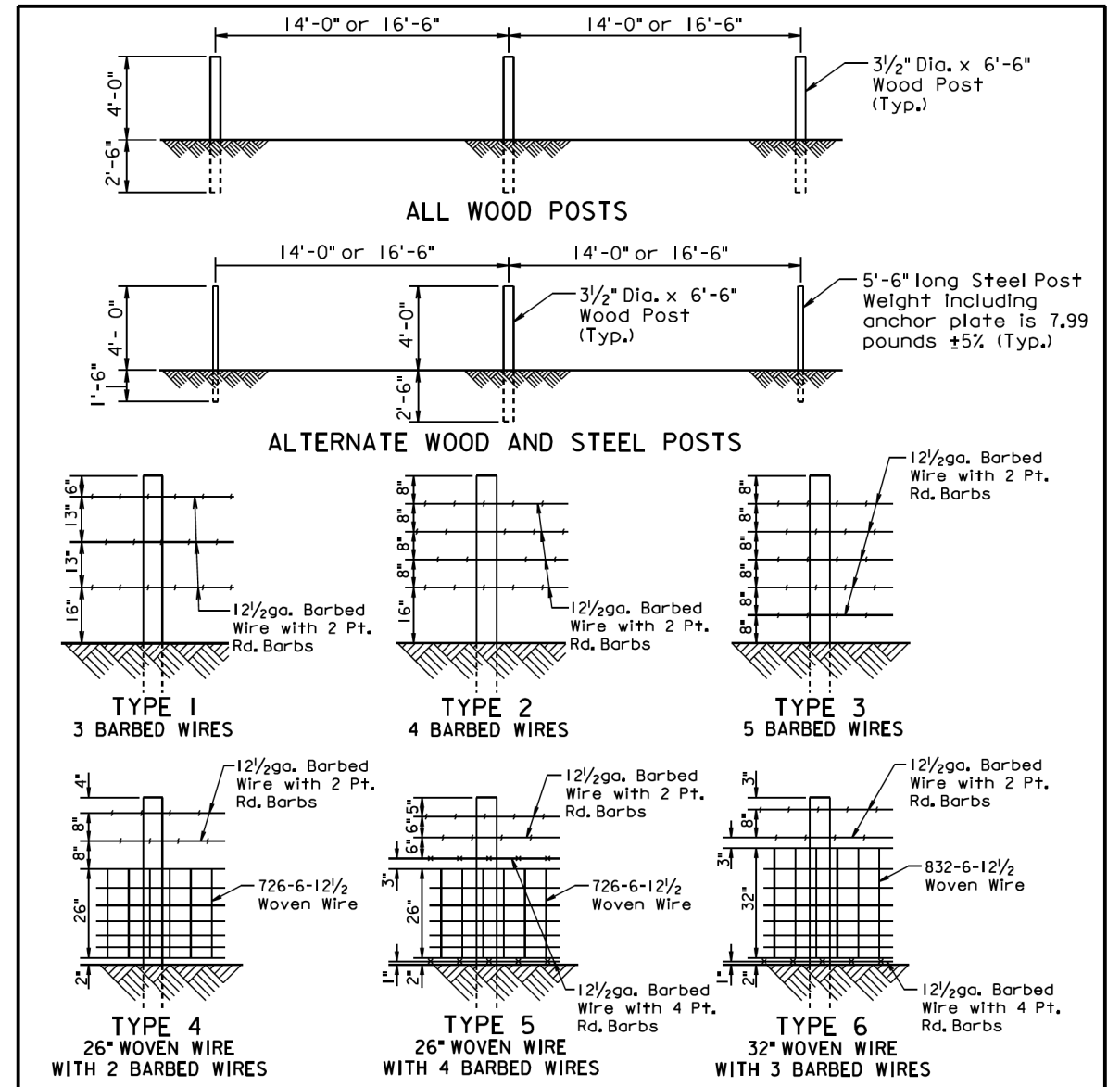
Construction of R.C.P. Arch Flared End shall conform to the requirements of Section 990 of the Specifications.

* Size (in.)	Approximate Weight of Section (lbs.)	Rise (in.)	Span (in.)	Slope (X:Y)	T (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	R (in.)
18	1100	13 1/2	22	3:1	2 1/2	7	27	45	72	36	2
24	1750	18	28 1/2	3:1	3 1/2	8 1/2	39	33	72	48	3
30	3300	22 1/2	36 3/4	3:1	4	9 1/2	50	46	96	60	3
36	4350	26 5/8	43 3/4	3:1	4 1/2	11 1/8	60	36	96	72	6
42	5250	31 5/16	51 1/8	3:1	4 1/2	15 13/16	60	36	96	78	6
48	6400	36	58 1/2	3:1	5	21	60	36	96	84	6
54	7850	40	65	3:1	5 1/2	25 1/2	60	36	96	90	6
60	9500	45	73 1/2	3:1	6	31	60	36	96	96	6
72	13550	54	88	2:1	7	31	60	39	99	120	6
84	17950	62	102	2:1	8	28 1/2	83	19	102	144	6

*Equivalent Diameter of Circular R.C.P.

June 26, 2015

S D D O T	R. C. P. ARCH FLARED ENDS	PLATE NUMBER 450.11
	Published Date: 4th Qtr. 2015	Sheet 1 of 1



TYPE	DESCRIPTION	LINE POST SPACING	WIRE GAGE	BARBED WIRE		WOVEN WIRE
				NUMBER AND SHAPE OF BARBS	STYLE OR DESIGN NO.	
1	3 Barbed Wires	16'-6"	12 1/2	2 Point Round	—	—
2	4 Barbed Wires	16'-6"	12 1/2	2 Point Round	—	—
3	5 Barbed Wires	16'-6"	12 1/2	2 Point Round	—	—
4	26" Woven Wire with 2 Barbed Wires	14'-0"	12 1/2	2 Point Round	—	726-6-12 1/2
5	26" Woven Wire with 4 Barbed Wires	14'-0"	12 1/2	2 wires with 2 Pt. Rd., 2 wires with 4 Pt. Rd.	—	726-6-12 1/2
6	32" Woven Wire with 3 Barbed Wires	14'-0"	12 1/2	2 wires with 2 Pt. Rd., 1 wire with 4 Pt. Rd.	—	832-6-12 1/2

GENERAL NOTES:

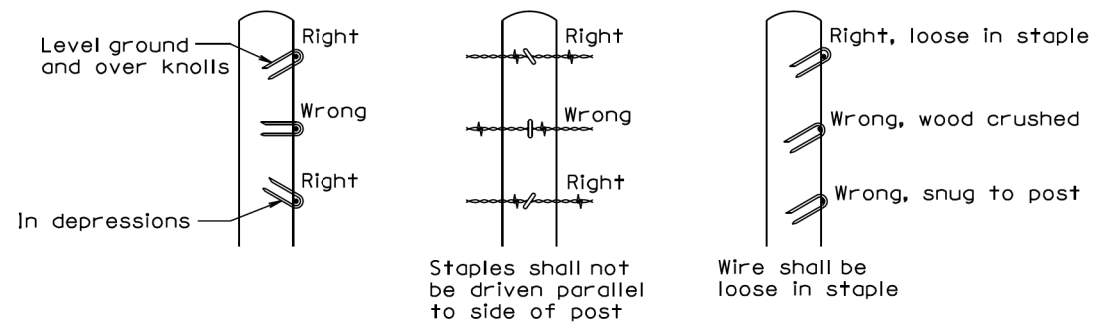
Fence types designated on the plans that are followed by the letter S shall have smooth (barbless) wires.

When type 5S or 6S is designated the bottom wire may be barbed, smooth, or left off.

All degrees of curvature stated for fence are at centerline of roadway.

September 14, 2009

S D D O T	RIGHT-OF-WAY FENCE	PLATE NUMBER 620.01
	Published Date: 4th Qtr. 2015	Sheet 1 of 1



STAPLE INSTALLATION

GENERAL NOTES:

The Right-of-Way fence shall consist of barbed wire or a combination of woven wire and barbed wire. The barbed wire and/or woven wire shall be fastened to all wood posts or fastened to alternating wood and steel posts. Only wood posts shall be used for brace panels. Gates shall be of the type designated in the plans or as otherwise directed by the Engineer. Fence shall be constructed conforming to the details on the standard plates and in the plans unless otherwise directed by the Engineer.

Right-of-Way fence on Interstate Projects shall be constructed one foot within the Interstate Right-of-Way lines except at bridge openings, cattle passes, and as otherwise directed by the Engineer.

Right-of-Way fence other than on Interstate Projects shall be constructed within one foot of the Right-of-Way on the Landowner's side except at bridge openings, cattle passes, and as otherwise directed by the Engineer.

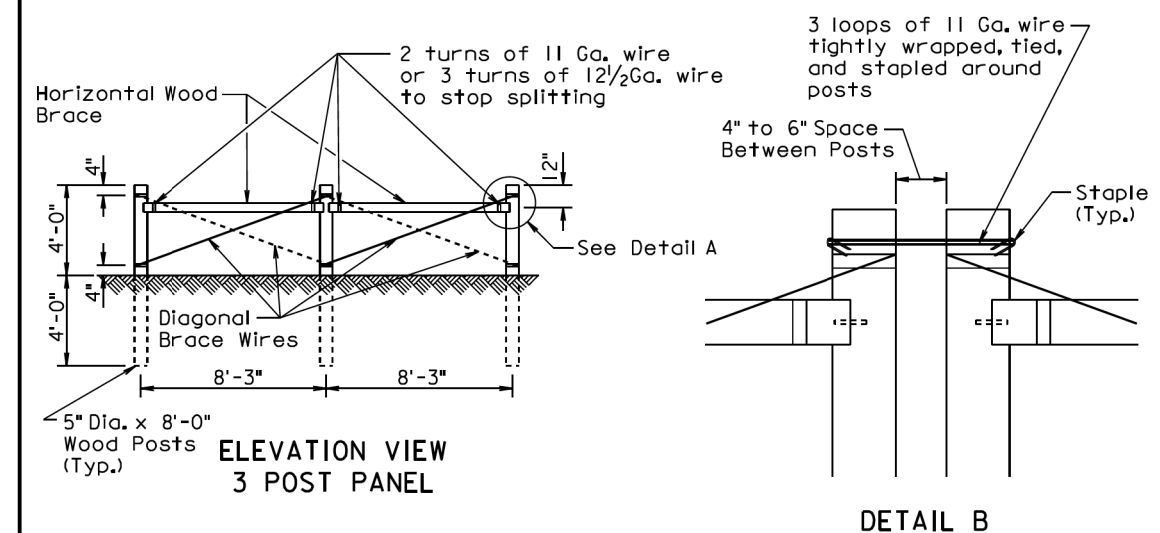
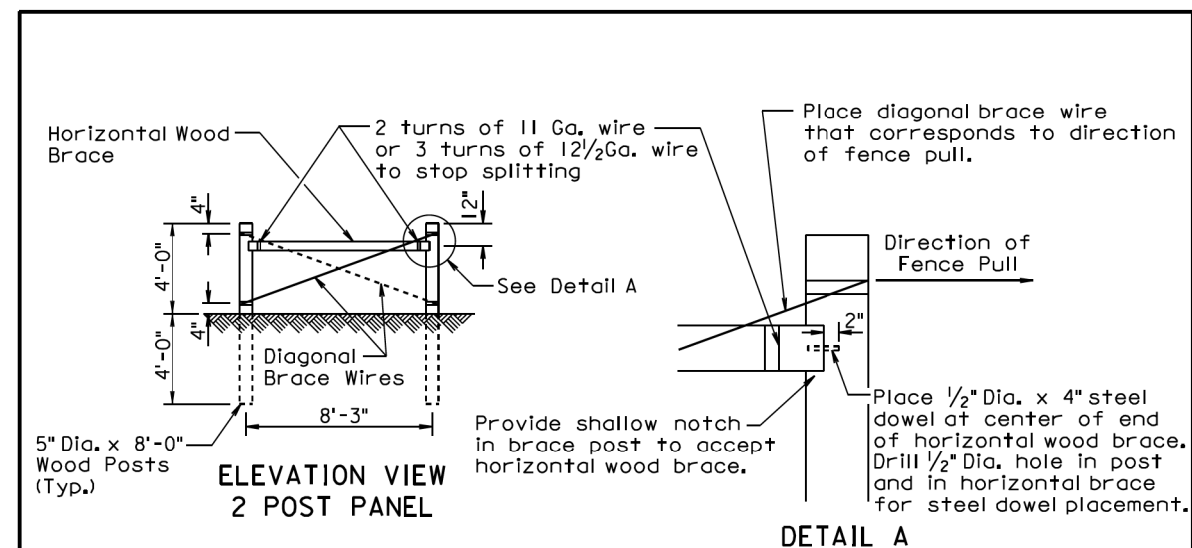
Barbs shall be fabricated from zinc coated 14 ga. wire. Two point barbs shall be wrapped twice around one main strand at 4" spacings and the four point barbs shall be interlocked and wrapped around both main strands at 5" spacings.

The gages of wire and wood post lengths and sizes are the minimum acceptable unless otherwise specified in the plans. The tolerances for steel posts shall be as stated in AASHTO M281. Woven wire shall conform to design and specifications of ASTM A116 and barbed wire shall conform to ASTM A121.

December 23, 2004

S D D O T	STAPLE INSTALLATION AND GENERAL RIGHT-OF-WAY FENCE NOTES	PLATE NUMBER 620.02
		Sheet 1 of 1

Published Date: 4th Qtr. 2015



GENERAL NOTES:

Two Post Panels shall be installed at least every 1320' between corners.

Two Post Panels shall be installed at any sharp vertical angle crest points and as directed by the Engineer.

Horizontal wood braces shall consist of 4" dia. x 8' wood posts or rough 4" x 4" x 8' timbers.

Diagonal brace wires shall be fabricated with 4 strands of 9 Ga. galvanized wire twisted tight. The diagonal brace wires shall be installed in accordance with the direction of the fence pull. Two diagonal brace wires are required if fence pull is in both directions.

December 23, 2004

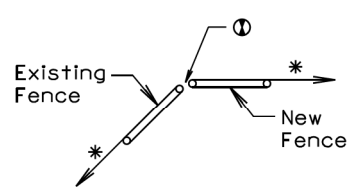
S D D O T	BRACE PANELS AND APPLICATIONS OF BRACE PANELS	PLATE NUMBER 620.03
		Sheet 1 of 3

Published Date: 4th Qtr. 2015

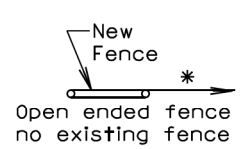
SPACING OF 2 POST PANELS WITHIN CURVES	
DEGREE OF CURVE	SPACING OF 2 POST PANEL
less than 3°15'	** 1320'
3°15' and greater	**At P.C., P.T., and at every 1320' between P.C. and P.T.

GENERAL NOTE:
All degrees of curvature stated for fence are at centerline of roadway.

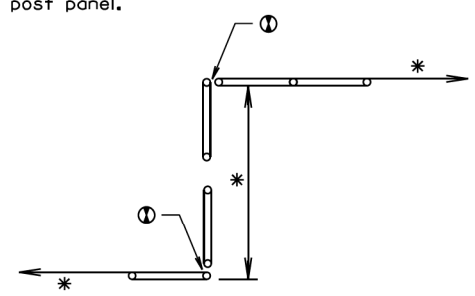
- * If fence length is less than 600' to next corner use a 2 post panel.
- * If fence length is greater than 600' to next corner use a 3 post panel.
- ** Fence lengths greater than 1320' and less than 2640' place 2 Post Panel approximately at midpoint.
- ① See Detail B on Sheet 1 of 3.



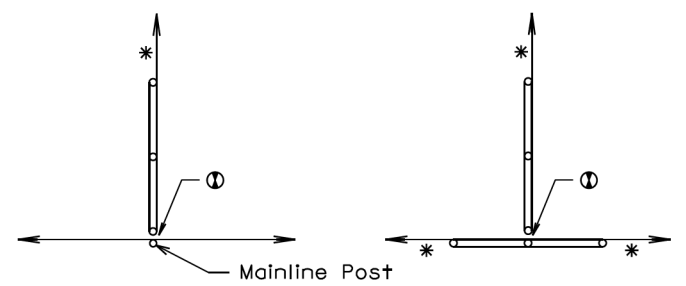
BEGIN OR END FENCE
(where new fence ties into existing fence)



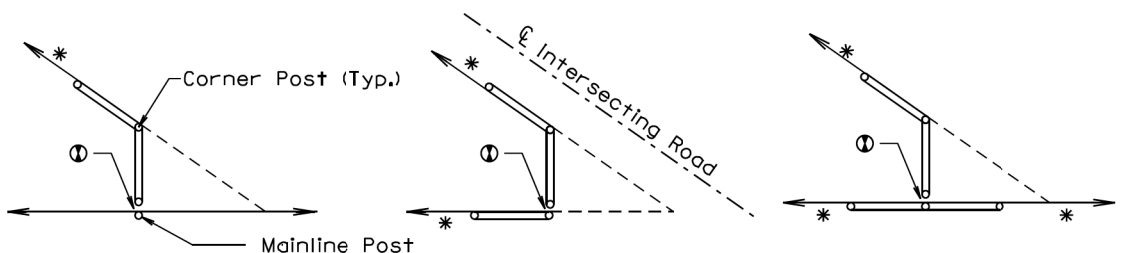
Open ended fence
no existing fence



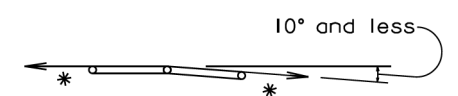
SHORT JOGS IN FENCE



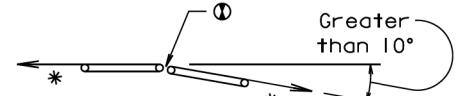
CROSS FENCE



SHARP ANGLES IN CROSS FENCE



Additional fence panel is NOT required when an angle in the mainline fence is 10° and less.



Additional fence panel is required when an angle in the mainline fence is greater than 10°.

ANGLES IN MAINLINE FENCE

December 23, 2004

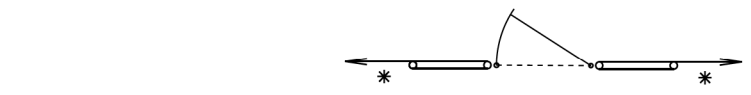
Published Date: 4th Qtr. 2015

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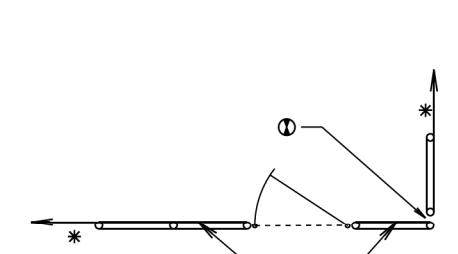
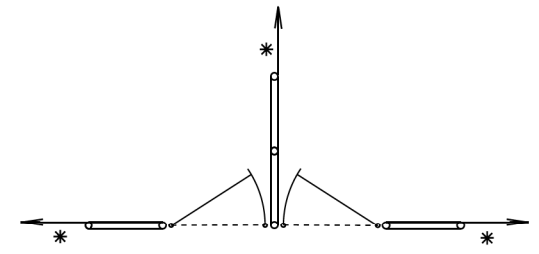
**BRACE PANELS
AND APPLICATIONS OF BRACE PANELS**

PLATE NUMBER
620.03

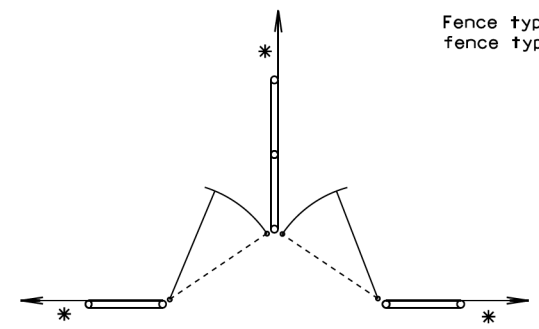
Sheet 2 of 3



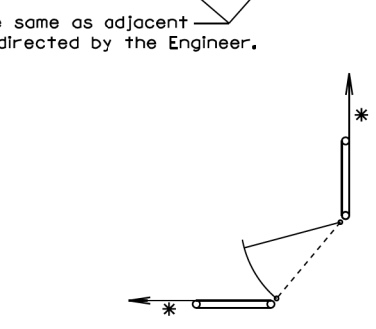
**ENTRANCE
(NOT ON CORNER)**



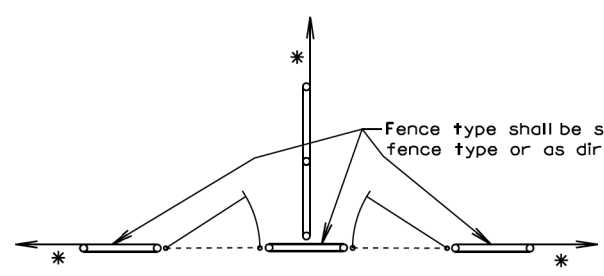
Fence type shall be same as adjacent fence type or as directed by the Engineer.



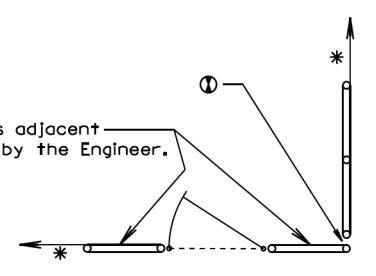
DOUBLE ENTRANCES



ENTRANCES AT CORNERS



DOUBLE ENTRANCES



ENTRANCES AT CORNERS

GATES

- * If fence length is less than 600' to next corner use a 2 post panel.
- * If fence length is greater than 600' to next corner use a 3 post panel.
- ① See Detail B on Sheet 1 of 3.

December 23, 2004

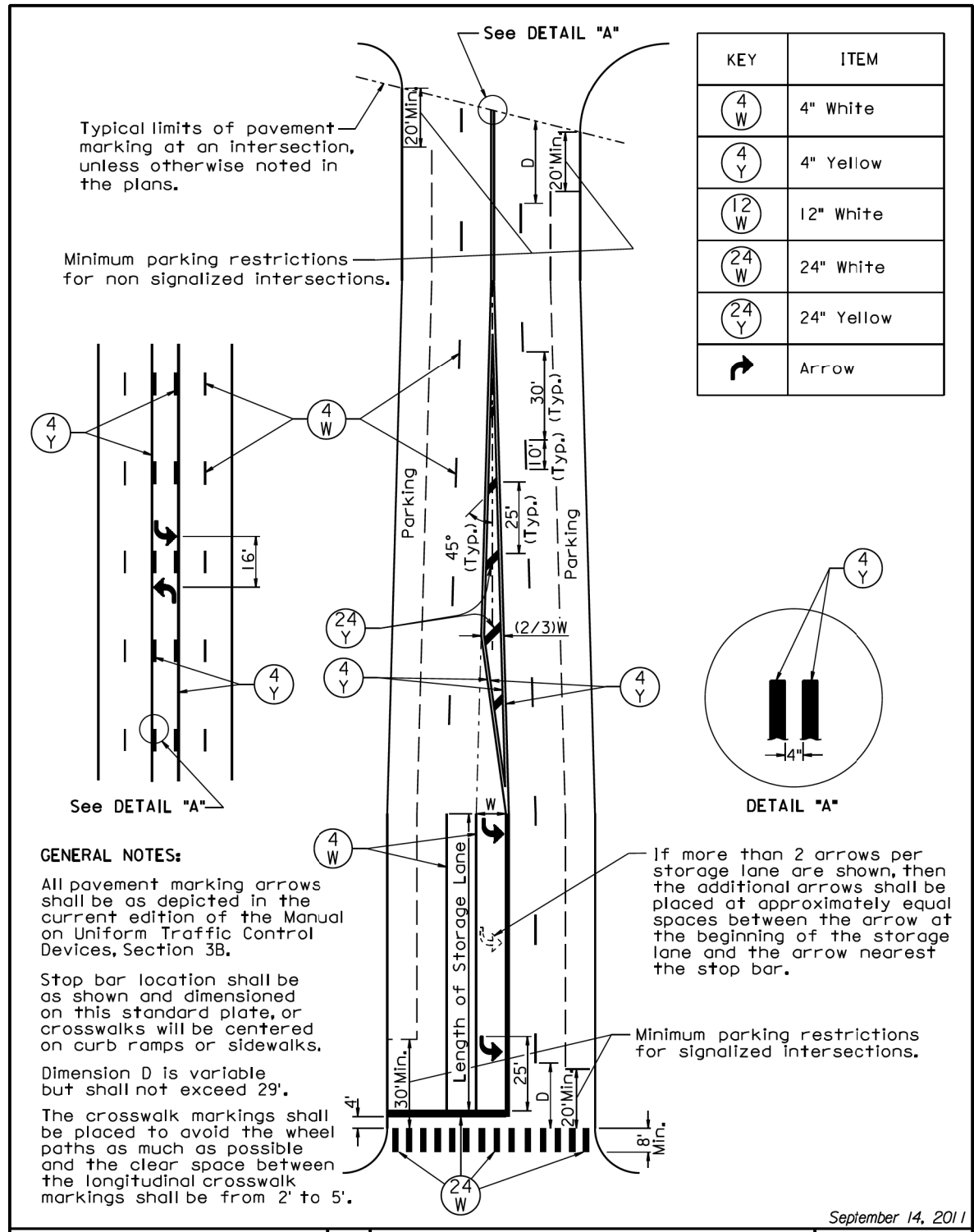
Published Date: 4th Qtr. 2015

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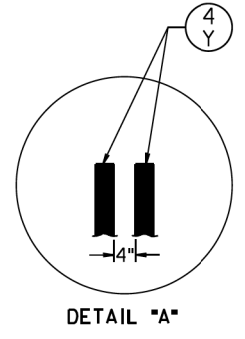
**BRACE PANELS
AND APPLICATIONS OF BRACE PANELS**

PLATE NUMBER
620.03

Sheet 3 of 3



KEY	ITEM
(4 W)	4" White
(4 Y)	4" Yellow
(12 W)	12" White
(24 W)	24" White
(24 Y)	24" Yellow
↷	Arrow



Typical limits of pavement marking at an intersection, unless otherwise noted in the plans.

Minimum parking restrictions for non signalized intersections.

See DETAIL "A"

GENERAL NOTES:

All pavement marking arrows shall be as depicted in the current edition of the Manual on Uniform Traffic Control Devices, Section 3B.

Stop bar location shall be as shown and dimensioned on this standard plate, or crosswalks will be centered on curb ramps or sidewalks.

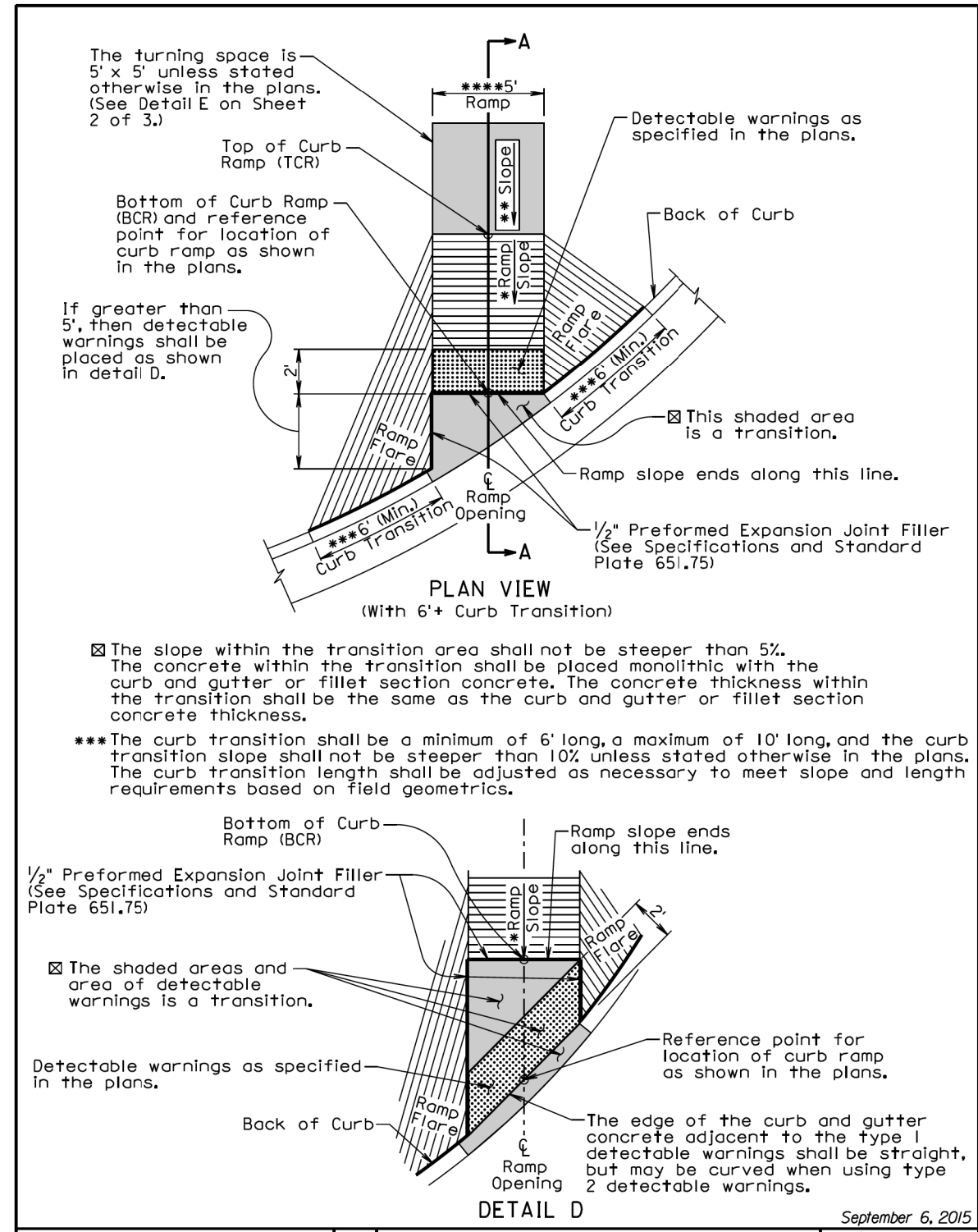
Dimension D is variable but shall not exceed 29'.

The crosswalk markings shall be placed to avoid the wheel paths as much as possible and the clear space between the longitudinal crosswalk markings shall be from 2' to 5'.

If more than 2 arrows per storage lane are shown, then the additional arrows shall be placed at approximately equal spaces between the arrow at the beginning of the storage lane and the arrow nearest the stop bar.

Minimum parking restrictions for signalized intersections.

September 14, 2011



The turning space is 5' x 5' unless stated otherwise in the plans. (See Detail E on Sheet 2 of 3.)

Top of Curb Ramp (TCR)

Bottom of Curb Ramp (BCR) and reference point for location of curb ramp as shown in the plans.

If greater than 5', then detectable warnings shall be placed as shown in detail D.

PLAN VIEW
(With 6'+ Curb Transition)

☒ The slope within the transition area shall not be steeper than 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 10% unless stated otherwise in the plans. The curb transition length shall be adjusted as necessary to meet slope and length requirements based on field geometrics.

Bottom of Curb Ramp (BCR)

1/2" Preformed Expansion Joint Filler (See Specifications and Standard Plate 651.75)

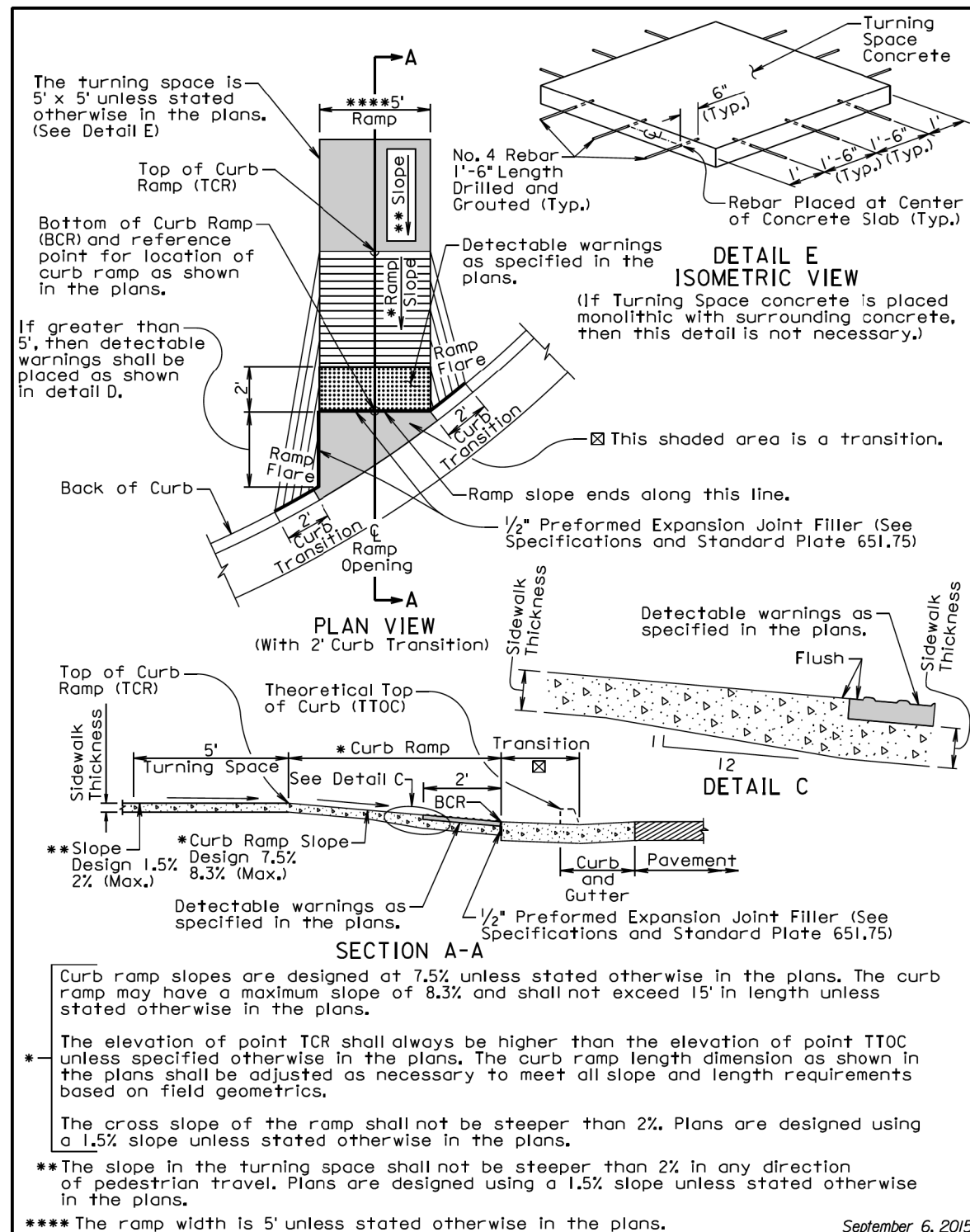
☒ The shaded areas and area of detectable warnings is a transition.

Detectable warnings as specified in the plans.

Back of Curb

DETAIL D

September 6, 2015



Published Date: 4th Qtr. 2015	S D D O T	TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)	PLATE NUMBER 651.02
			Sheet 2 of 3

GENERAL NOTES:

For illustrative purpose only, type 1 detectable warnings are shown in the drawings.

The curb ramp depicted on this standard plate may be used with a PCC fillet section or curb and gutter. The curb ramp shall be placed at the location stated in the plans.

Sidewalk shall not be placed adjacent to the curb 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 curb ramp, free of sags and short grade changes.

Surface texture of the curb ramp shall be obtained by coarse brooming transverse to the slope of the curb ramp.

The normal gutter line profile shall be maintained through the area of the ramp opening.

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.

If rebar is placed in the Turning Space as depicted in DETAIL E, the cost of the materials, labor, and equipment to furnish and install the rebar shall be incidental to the contract unit price per square foot for the corresponding concrete sidewalk bid item.

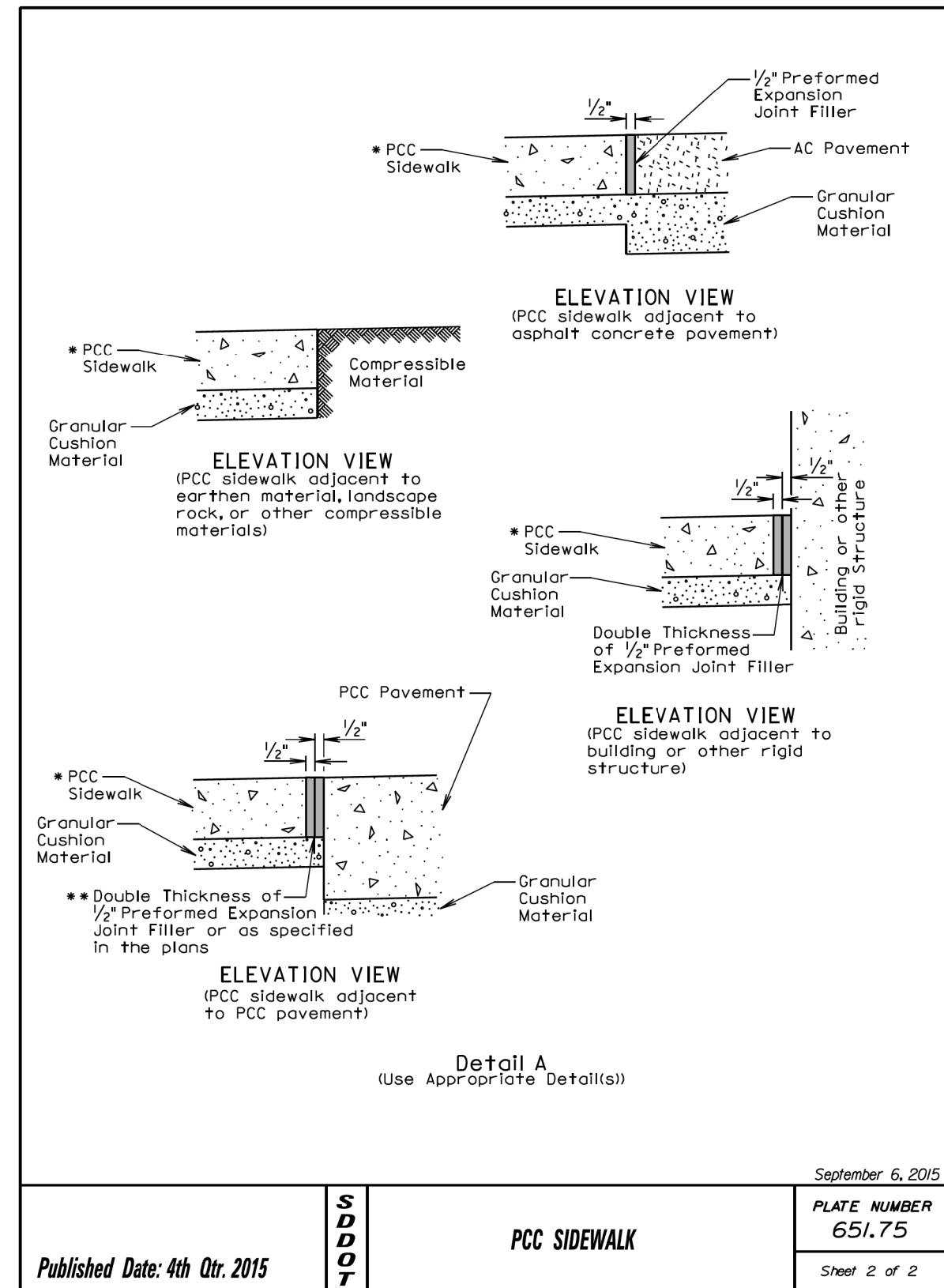
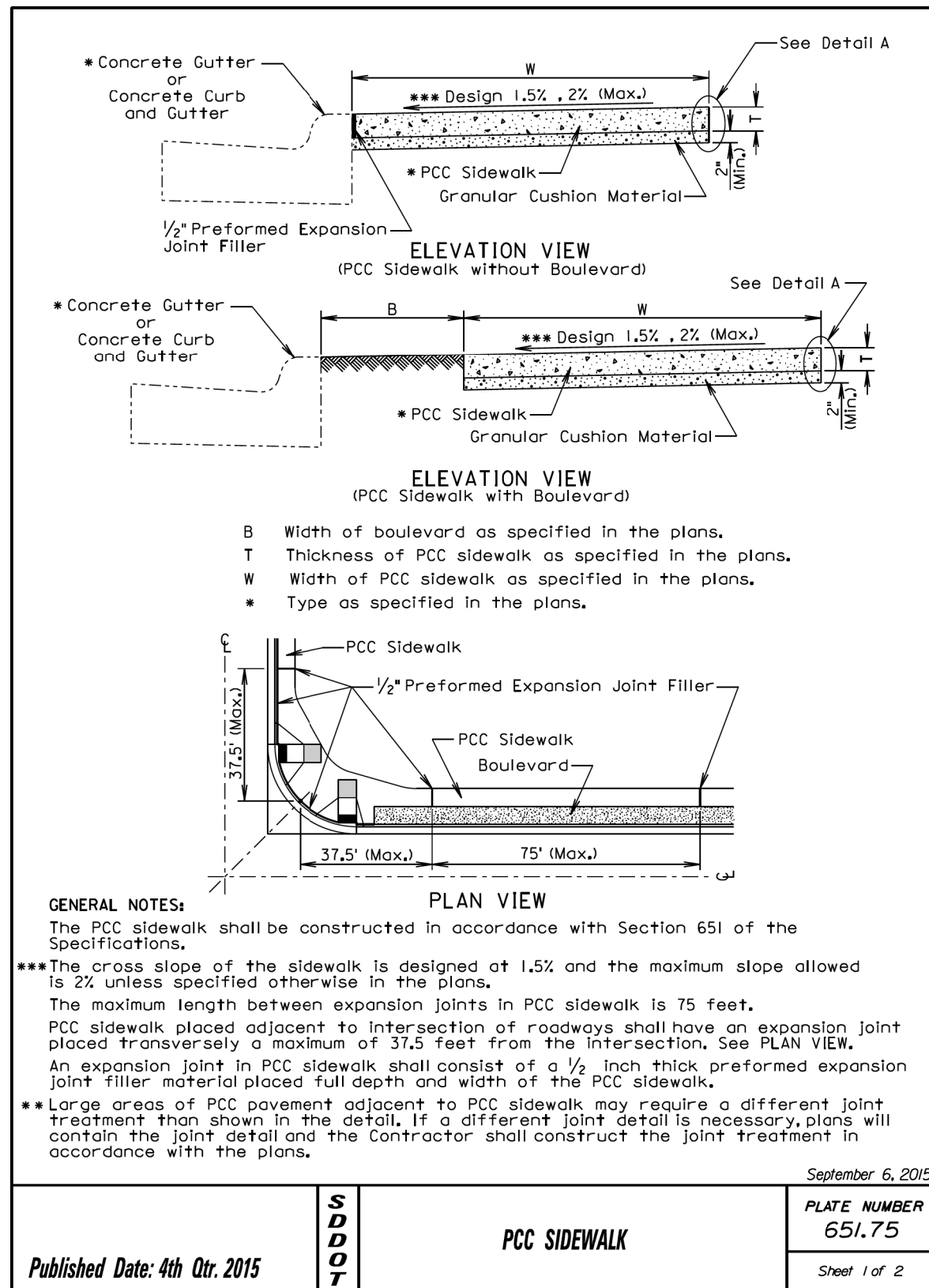
The curb transitions and ramp opening shall be measured and paid for at the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used. The curb transitions and ramp opening shall be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

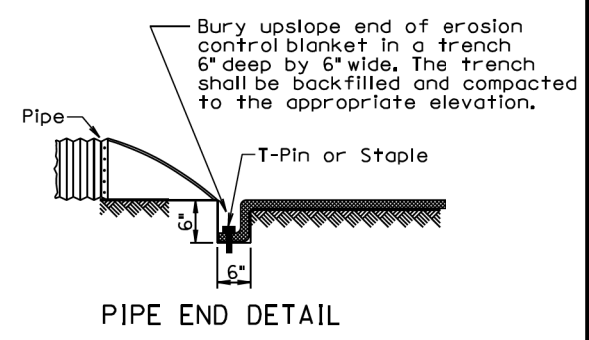
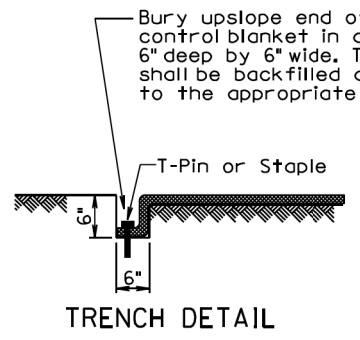
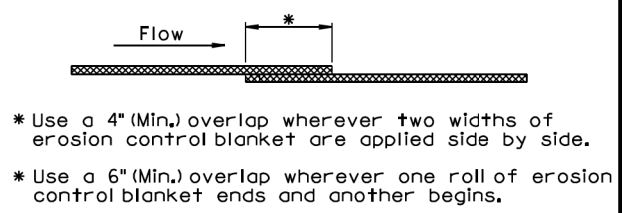
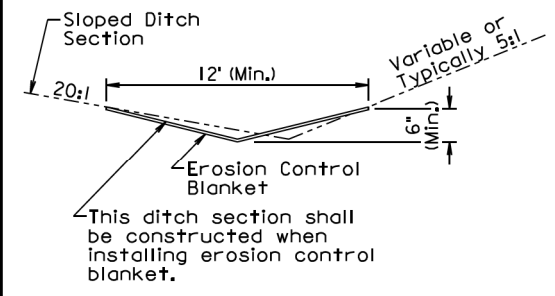
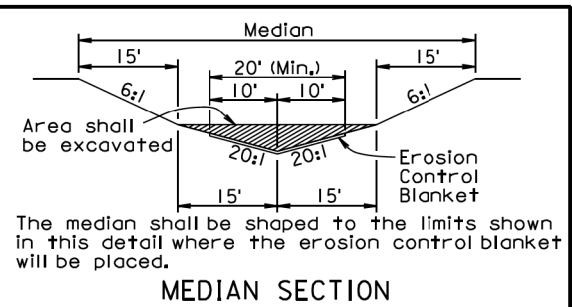
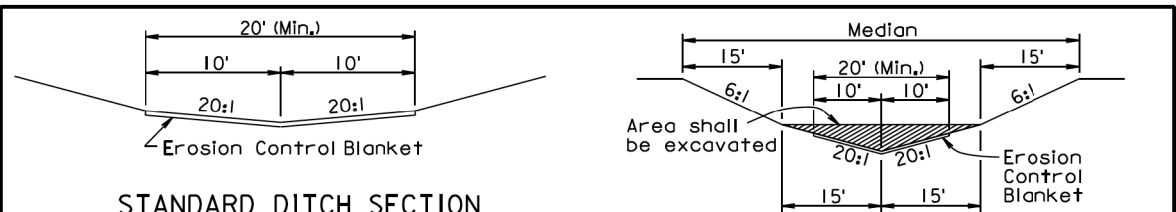
All costs for furnishing and installing the transition area at the base of the curb ramp shall be incidental to the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used and shall be incidental to the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

The type 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".

Published Date: 4th Qtr. 2015	S D D O T	TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)	PLATE NUMBER 651.02
			Sheet 3 of 3





GENERAL NOTES:

Prior to placement of the erosion control blanket, the areas shall be properly prepared, shaped, seeded, and fertilized.

Erosion control blanket shall be unrolled in the direction of the flow of water when placed in ditches and on slopes. The upslope end of the erosion control blanket shall be buried in a trench 6" wide by 6" deep. There shall be at least a 6" overlap wherever one roll of erosion control blanket ends and another begins, with the upslope erosion control blanket placed on top of the downslope erosion control blanket.

The erosion control blanket shall be pinned to the ground according to the manufacturer's installation recommendations.

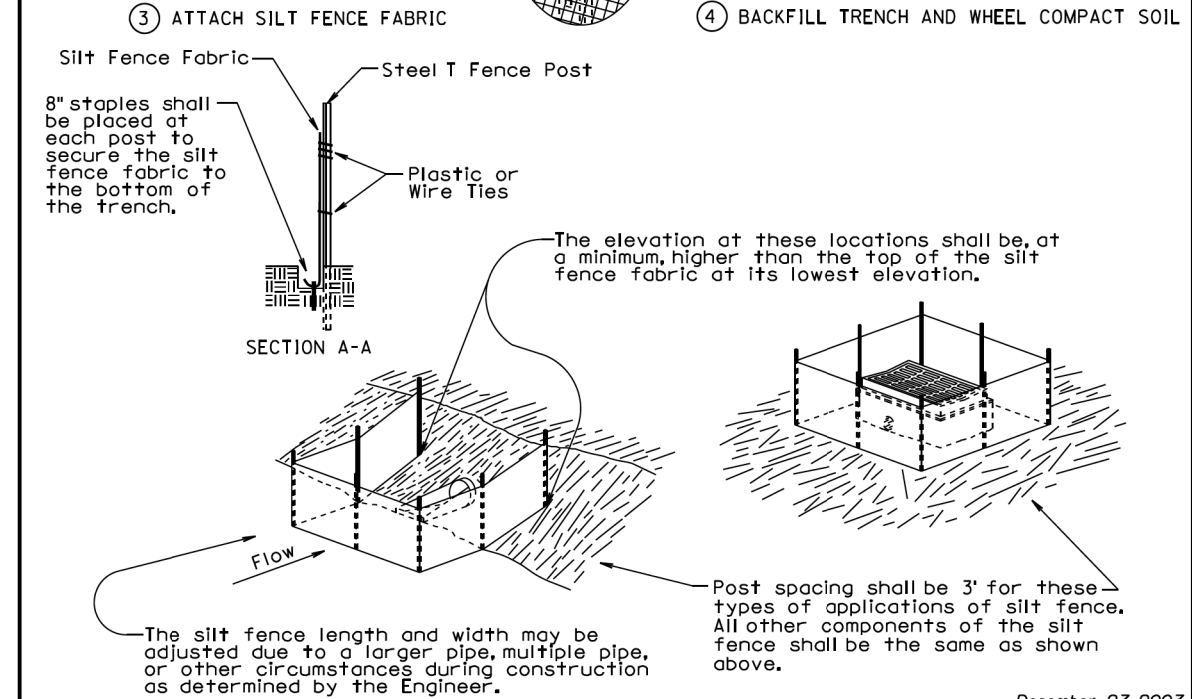
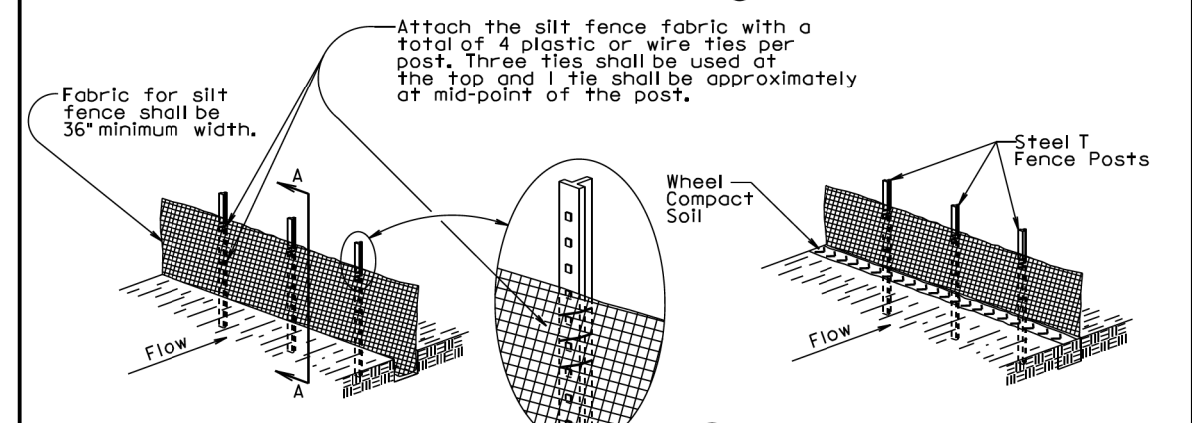
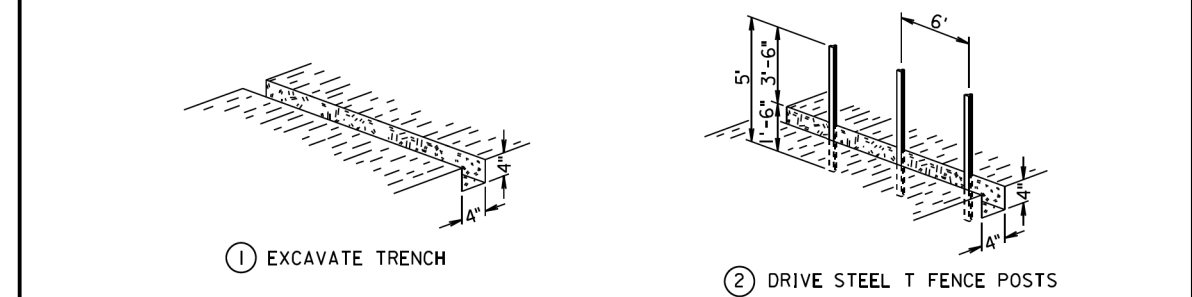
After the placement of the erosion control blanket, the Contractor shall fine grade along all edges of the blanket to maintain a uniform slope adjacent to the blanket and level any low spots which might prevent uniform and unrestricted flow of side drainage directly onto the erosion control blanket.

All ditch sections shall be shaped when installing the erosion control blanket. All costs for shaping the ditches shall be incidental to the contract unit price per foot for "Shaping for Erosion Control Blanket".

December 23, 2004

Published Date: 4th Qtr. 2015	S D D O T	EROSION CONTROL BLANKET	PLATE NUMBER 734.01
			Sheet 1 of 1

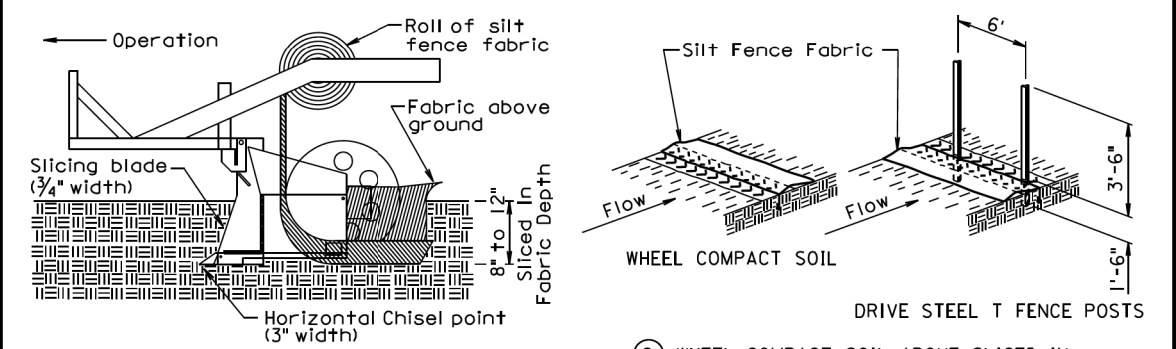
MANUAL HIGH FLOW SILT FENCE INSTALLATION



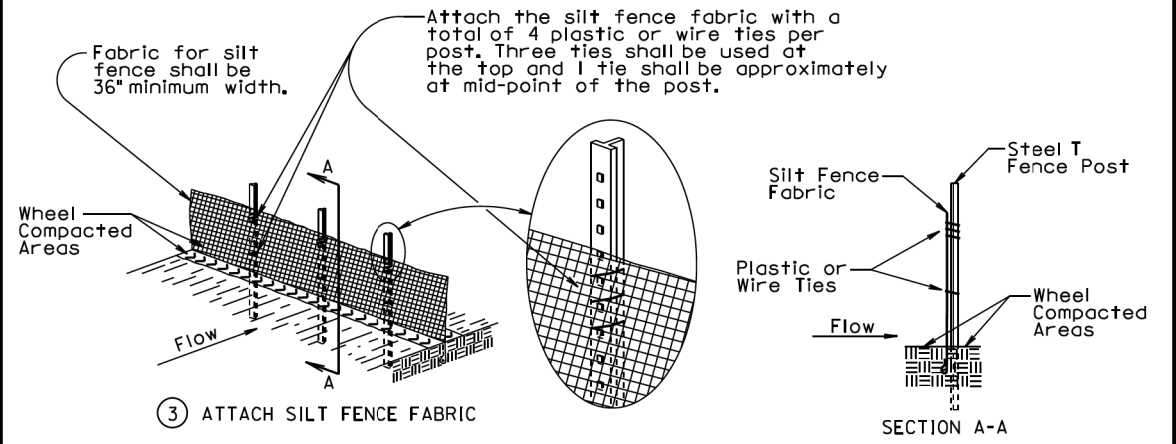
December 23, 2003

Published Date: 4th Qtr. 2015	S D D O T	HIGH FLOW SILT FENCE	PLATE NUMBER 734.05
			Sheet 1 of 2

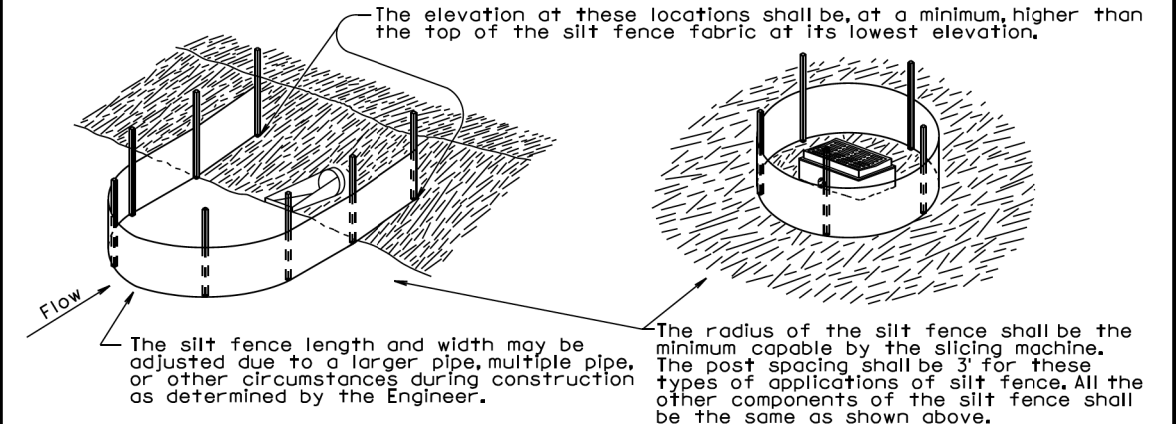
MACHINE SLICED HIGH FLOW SILT FENCE INSTALLATION



- INSTALL SILT FENCE FABRIC BY MACHINE SLICING METHOD.
- WHEEL COMPACT SOIL ABOVE SLICED IN PORTION OF FABRIC AND THEN DRIVE STEEL T FENCE POSTS.



- ATTACH SILT FENCE FABRIC

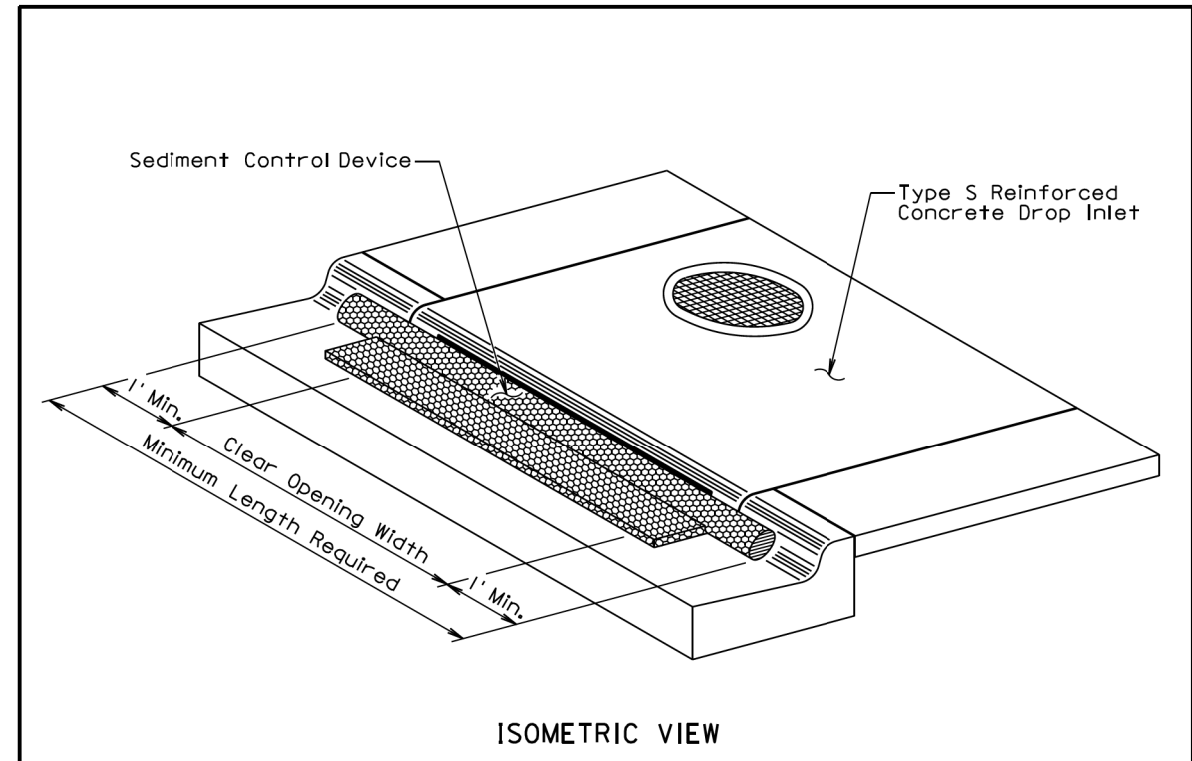


GENERAL NOTE:

If a trench can not be dug or the silt fence fabric can not be sliced in due to the type of earthen material (such as rock), then a row of 30 to 40 pound sandbags butted end to end shall be provided on top of the extra length of silt fence fabric to prevent underflow.

December 23, 2003

S D D O T	HIGH FLOW SILT FENCE	PLATE NUMBER 734.05
		Sheet 2 of 2
	Published Date: 4th Qtr. 2015	



ISOMETRIC VIEW

GENERAL NOTES:

- The type of sediment control device shown is for illustrative purposes only.
- The type of sediment control device used shall be one of the types as specified in the plans.
- The sediment control device shall be placed at the drop inlets according to the manufacturers' installation instructions.
- The sediment control at inlet for type S reinforced concrete drop inlet shall be placed at locations stated in the plans or at locations determined by the Engineer.
- The Contractor shall inspect and maintain the sediment control device once every week and within 24 hours after every rainfall event. The Contractor shall maintain the sediment control device by removing the device, removing accumulated sediment, and resetting the device.
- The removed sediment shall be placed at a location away from the drop inlet where the sediment will not be washed back into the drop inlet or other storm sewer system.
- Payment for the "Sediment Control at Type S Drop Inlet" shall be based on the minimum length required at the drop inlets. Some of the sediment control devices specified in the plans will have to be longer due to available length.
- All costs for furnishing, installing, inspecting, maintaining, removing, and resetting the sediment control device at the drop inlet including labor, equipment, and materials shall be incidental to the contract unit price per foot for "Sediment Control at Type S Reinforced Concrete Drop Inlet".

September 14, 2005

S D D O T	SEDIMENT CONTROL AT INLETS FOR TYPE S REINFORCED CONCRETE DROP INLETS	PLATE NUMBER 734.11
		Sheet 1 of 1
	Published Date: 4th Qtr. 2015	