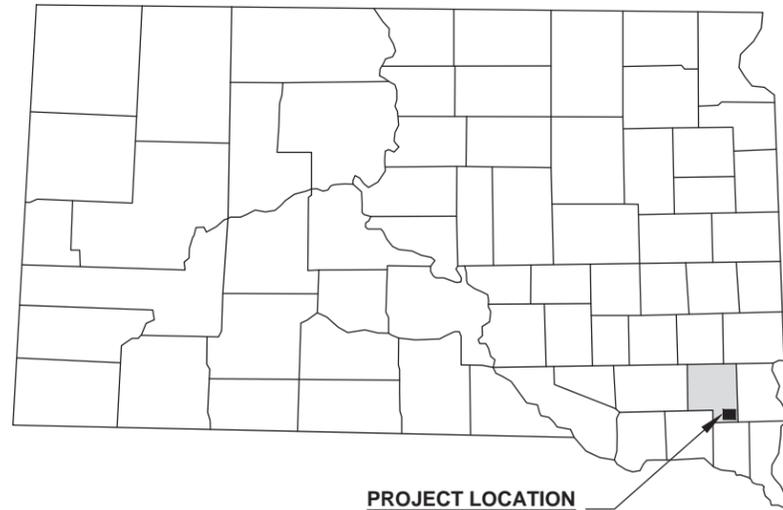


PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	1	41

**FOR BIDDING PURPOSES ONLY**



**PROJECT LOCATION**  
CENTERVILLE, SD  
TURNER COUNTY

STATE OF SOUTH DAKOTA  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR PROPOSED  
**PROJECT P SRTS(30)**  
**CITY OF CENTERVILLE**  
**TURNER COUNTY**

SAFE ROUTES TO SCHOOL PROJECT  
PCN 03WX

**INDEX OF SHEETS:**

- 1 TITLE SHEET
- 2 LEGEND AND PROJECT INDEX MAP
- 3 ESTIMATE OF QUANTITIES
- 4-9 GENERAL NOTES, TABLES, TRAFFIC CONTROL NOTES, EROSION CONTROL NOTES
- 10-11 SWPPP
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- 24 WASHINGTON STREET SIDEWALK PLAN
- 25 WASHINGTON ST. & MONTANA ST. SIDEWALK PLAN
- 26-28 IOWA STREET SIDEWALK PLAN
- 29-30 MAIN STREET SIDEWALK PLAN
- 31 PAVEMENT MARKING AND PERMANENT SIGNING PLANS
- 32-41 STANDARD PLATES



Location Map

**SCALES**  
PLAN URBAN  
1 INCH = 40 FEET



I, Philip L. Gundvaldson, hereby certify that these plans were prepared by me, or under my direct supervision and that I am a duly registered engineer under the laws of the State of South Dakota.

PHILIP L. GUNDTVALDSON S.D. No. 9234 Date

CITY OF CENTERVILLE  
Approved \_\_\_\_\_  
AUTHORIZED CITY AGENT \_\_\_\_\_ Date

**STORM WATER PERMIT**  
Major Receiving Body of Water: Vermillion River  
Area Disturbed: 0.92 Acres  
Project Area: 0.92 Acres  
NOI Permit #  
Latitude 43° 7' 10" N  
Longitude 96° 57' 35" W

Drawing indicates general utility locations only. Neither the correctness or completeness of locations are guaranteed.  
Prior to excavation contact:  
SOUTH DAKOTA ONE CALL (1-800-781-7474)



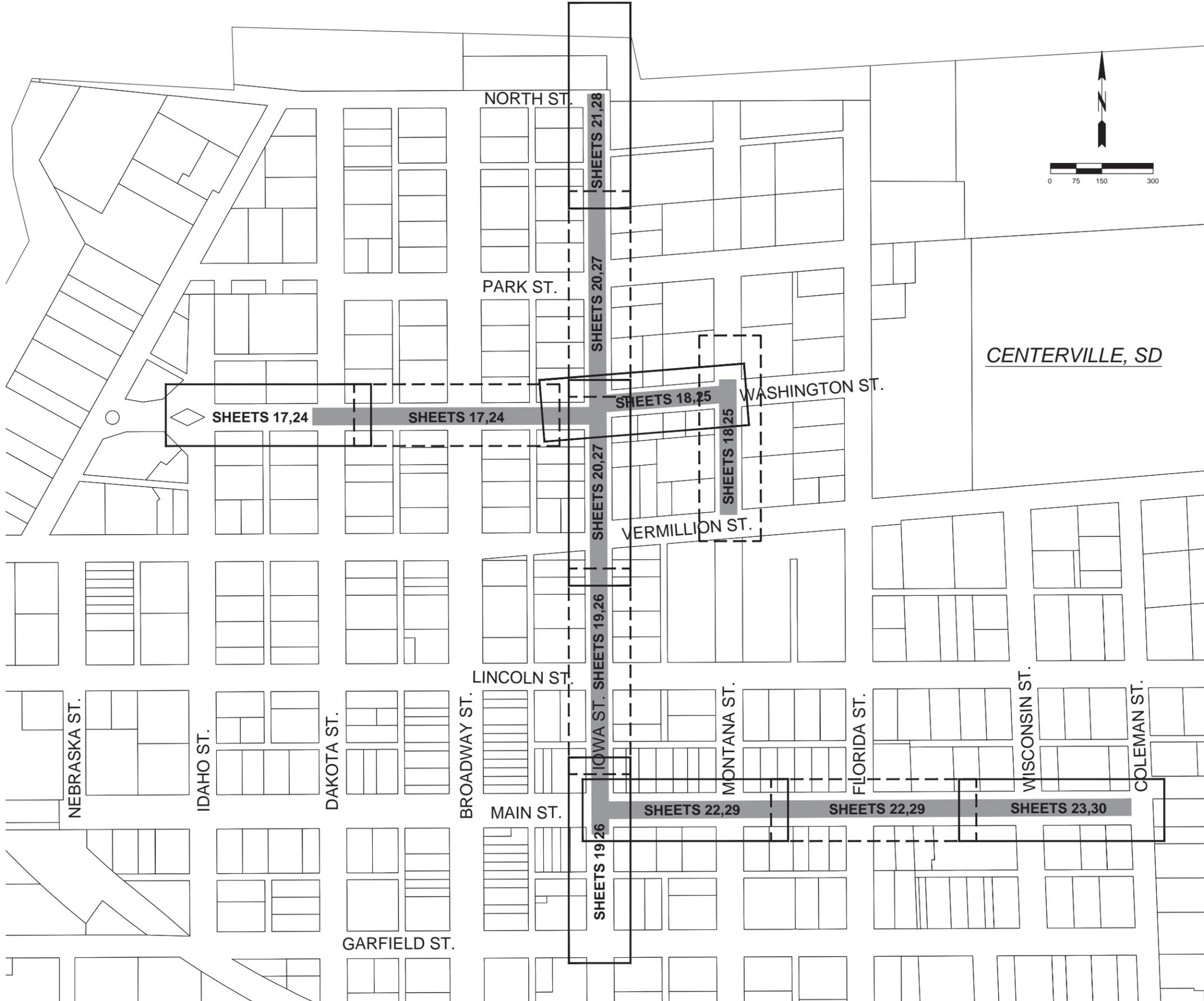
Plans By:  
INFRASTRUCTURE DESIGN GROUP, INC.  
100 S. SPRING AVENUE, SUITE 150  
SIOUX FALLS, SOUTH DAKOTA 57104  
PH. (605) 271-5527  
www.infrastructuredg.com

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# PROJECT INDEX MAP

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	2	41



## LEGEND

- PIN FOUND
- FIRE HYDRANT
- STREET LIGHT
- LIGHT POLE
- FLOOD LIGHT
- HISTORICAL LIGHT POLE
- POWER POLE
- TRAFFIC SIGNAL
- POWER BOX
- ROOF DRAIN
- TELEPHONE BOX
- EXISTING MANHOLE
- EXISTING STORM M.H.
- SIGN
- STREET SIGN
- GAS METER
- UTILITY CLOSURE
- GUY WIRE
- FLAG POLE
- GAS VALVE
- WATER SHUTOFF
- WATER VALVE
- OHW OVERHEAD WIRE
- UP UNDERGROUND POWER
- UPC UNDERGROUND POWER (CITY)
- UT UNDERGROUND TELEPHONE
- F FIBER OPTIC
- UTV UNDERGROUND TELEVISION
- W WATER LINE
- G GAS LINE
- S SANITARY SEWER
- SS STORM SEWER
- O CHAIN LINK FENCE
- x BARBED WIRE FENCE
- WOOD FENCE
- - - EXISTING CURB & GUTTER
- - - 100 EXISTING CONTOUR
- BUSHES
- DECIDUOUS TREE
- CONIFEROUS TREE
- 4 4 CONCRETE SURFACE
- / / / EXISTING BUILDING LINE



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FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	3	41

## ESTIMATE OF QUANTITIES

Item No.	Std. Bid Item	Item Description	Unit	Approx Qty.
1	009E0010	Mobilization	LS	LS
2	100E0020	Clear and Grub Tree	Each	1
3	100E0100	Clearing	LS	LS
4	110E0310	Remove Concrete Curb	Ft	66
5	110E1010	Remove Asphalt Concrete Pavement	SqYd	95.6
6	110E1130	Remove Concrete Driveway Pavement	SqYd	9.2
7	110E1140	Remove Concrete Sidewalk	SqYd	1,274.0
8	230E0100	Remove and Replace Topsoil	LS	LS
9	250E0010	Incidental Work	LS	LS
10	260E1010	Base Course	Ton	48.0
11	320E1200	Asphalt Concrete Composite	Ton	19.0
12	380E3020	6" PCC Driveway Pavement	SqYd	7
13	632E1320	2.0"x2.0" Perforated Tube Post	Ft	120
14	632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	SqFt	88
15	632E3520	Remove, Salvage, Relocate, and Reset Traffic Sign	Each	2
16	633E1430	Pavement Marking Paint, 24" White	Ft	120
17	634E0010	Flagging	Hour	10
18	634E0100	Traffic Control	Unit	839
19	634E0120	Traffic Control, Miscellaneous	LS	LS
20	650E0060	Type B66 Concrete Curb and Gutter	Ft	135
21	651E0040	4" Concrete Sidewalk	SqFt	15,849
22	651E0060	6" Concrete Sidewalk	SqFt	1,082
23	651E5000	Sidewalk Drain	Ft	19
24	651E7000	Type 1 Detectable Warnings	SqFt	324
25	732E0250	Fiber Mulching	Lb	1,240
26	730E0251	Special Permanent Seed Mixture 1	Lb	140
27	734E0845	Sediment Control at Inlet with Frame and Grate	Each	16



**FOR BIDDING PURPOSES ONLY**

PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	4	41

**PROJECT SCOPE**

The project is located in the City of Centerville and consists of constructing new sidewalks, pedestrian ramps, signage and painted street crossings as part of the Safe Routes to School program. Existing sidewalks along portions of the proposed route do not meet current ADA (American's with Disabilities Act) requirements or are in need of repair. New sidewalk is planned along portions of the following streets:

- the north side of Washington Street from Idaho Street to Montana Street
- the east side of Montana Street from Washington Street to Vermillion Street
- the east side of Iowa Street from Garfield Street to Vermillion Street
- the west side of Iowa Street from Vermillion Street to North Street
- the south side of Main Street from Iowa Street to Coleman Street
- the north side of Garfield Street from Iowa Street to Coleman Street

**SPECIFICATIONS**

Standard Specifications for Roads & Bridges, 2004 Edition and Required Provisions, Supplemental Specifications and/or Special Provisions as included in the Proposal.

The South Dakota Department of Transportation Standard Specifications for Roads and Bridges with Supplemental Specifications and Errata can be downloaded from the SDDOT's website at <http://www.sddot.com/>.

**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 E: STORM WATER**

Construction activities constitute 1 acre or more of earth disturbance.

**Action Taken/Required:**

The DENR and the US Environmental Protection Agency (EPA) have issued separate general permits for the discharge of storm water runoff. The DENR permit applies to discharges on state land and the EPA permit applies to discharges on federal or reservation land. The Contractor is advised this project is regulated under the Phase II Storm Water Regulations and must receive coverage under the General Permit for Construction Activities. A Notice of Intent (NOI) will be submitted to DENR a minimum of 15 days prior to project start by the DOT Environmental Office. A letter must be received from DENR that acknowledges project coverage under this general permit before project start. The Contractor is advised that permit coverage may also be required by off-site activities, such as borrow and staging areas, which are the responsibility of the Contractor.

The Contractor shall adhere to the "Special Provision Regarding Storm Water Discharges to Waters of the State".

A major component of the storm water construction permits is development and implementation of a Storm Water Pollution Prevention Plan (SWPPP), which is a joint effort and responsibility of the SDDOT and the Contractor. Erosion control measures and best management practices will be implemented in accordance with the SWPPP. The SWPPP is a dynamic document and is to be available on-site at all times.

Information on storm water permits and SWPPPs are available on the following websites:

SDDOT: <http://sddot.com/transportation/highways/environmental/stormwater/Default.aspx>

DENR: <http://www.denr.sd.gov/des/sw/stormwater.aspx>

EPA: [http://cfpub.epa.gov/npdes/home.cfm?program\\_id=6](http://cfpub.epa.gov/npdes/home.cfm?program_id=6)

**Contractor Certification Form:**

The "Department of Environmental and Natural Resources – Contractor Certification Form" (SD EForm – 2110LDV1-ContractorCertification.pdf) shall be completed by the Contractor or their certified Erosion Control Supervisor after the award of the contract. Work may not begin on the project until this form is signed.

The form certifies under penalty of law that the Contractor understands and will comply with the terms and conditions of the Surface Water Discharge General Permit for Storm Water Discharges Associated with Construction Activities for the Project.

The online form can be found at: <http://denr.sd.gov/des/sw/eforms/E2110LDV1-ContractorCertification.pdf>

**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:

1. 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".
2. 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 designated option borrow sites provided within the plans.

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.

**COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES (continued)**

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.

**CONSTRUCTION LIMITS**

The construction limits shall be within the right-of-way and temporary easement areas. Material storage and vehicle and equipment traffic shall be limited to the construction limits.

All paved streets adjacent to the project are to be cleaned at the end of each working day.

It shall be the responsibility of the contractor to coordinate with the property owners relating to maintaining access to their property.

**GRADE STAKES, BENCHMARKS AND MONUMENTS**

All monuments now in place and marking lines and corners of boundaries which are likely to be affected by the work herein provided for shall be carefully preserved by the Contractor. In no case shall any excavation be made within five feet (5') of any such monument until they have been properly reset, witnessed, or otherwise cared for by the Engineer and permission is given to proceed with the work. The Engineer shall mark the above described monuments prior to commencing work.

Any monuments disturbed or removed through carelessness or without proper authority will be reset by a licensed Land Surveyor at the expense of the Contractor.

**MAINTENANCE OF DRAINAGE**

The Contractor will be required to maintain drainage on the project during the course of the construction. This will include any installation of Contractor furnished pipe to temporarily connect drainage systems, performing the necessary shaping and all needed miscellaneous work. No separate payment will be made for this work or any other work required to maintain adequate drainage.

**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 following utility companies are known to have facilities on the project:

- |  |  |
|--|--|
| Centerville Water & Sewer<br>Kent Austin<br>(605) 670-9842 | Knology<br>Scott Pingrey<br>(605) 670-2984     |
| Fort Randall<br>Dean Brue<br>(605) 491-0422                | Xcel Energy<br>Aaron Bickett<br>(605) 339-8315 |
| MidAmerican Energy Company<br>Eric Berg<br>(605) 373-6038  |  |

**REMOVAL OF EXISTING CONCRETE SIDEWALK**

The concrete sidewalk shall be disposed of by the Contractor. Payment for concrete sidewalk removal is included in the contract unit price per square yard for "Remove Concrete Sidewalk". Payment shall be at the contract unit price per square yard, regardless of variations in thickness.



**FOR BIDDING PURPOSES ONLY**

PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	5	41

**TABLE OF SIDEWALK REMOVAL-WASHINGTON STREET**

Station	to	Station	L/R	Quantity (SqYd)
4+73.12		4+75.16	LT	0.8
4+99.90		5+13.82	LT	5.1
6+71.33		6+77.40	LT	2.6
6+96.63		7+22.87	LT	11.1
9+09.24		9+18.78	LT	4.7
9+23.39		9+27.94	LT	5.1
10+80.92		12+44.04	LT	66.5
13+00.38		16+40.99	LT	146.9
16+85.95		17+01.08	LT	11.8
Total:				254.6

**TABLE OF SIDEWALK REMOVAL-MONTANA STREET**

Station	to	Station	L/R	Quantity (SqYd)
2+37.05		4+12.67	RT	69.8
Total:				69.8

**TABLE OF SIDEWALK REMOVAL-IOWA STREET**

Station	to	Station	L/R	Quantity (SqYd)
3+89.26		4+26.42	RT	33.1
4+75.03		4+98.74	RT	16.6
5+41.63		6+54.00	RT	47.3
8+02.73		8+17.81	RT	12.9
12+52.82		13+27.26	LT	36.2
13+48.29		15+93.00	LT	101.0
16+25.15		19+72.36	LT	157.9
20+01.25		20+34.48	LT	12.6
22+70.33		24+04.09	LT	55.3
24+29.49		25+09.47	LT	34.9
Total:				507.8

**TABLE OF SIDEWALK REMOVAL-MAIN STREET**

Station	to	Station	L/R	Quantity (SqYd)
2+90.28		4+16.58	RT	79.6
4+46.78		4+63.73	RT	9.0
5+43.29		7+98.91	RT	147.8
8+34.68		10+17.72	RT	99.2
12+67.68		12+97.67	RT	15.8
13+31.36		13+45.36	RT	7.5
14+54.43		16+05.37	RT	82.9
Total:				441.8

**TABLE OF CONCRETE CURB REMOVAL-WASHINGTON STREET**

Station	to	Station	L/R	Quantity (Ft)
12+37.35		12+46.32	LT	5.0
12+65.54		12+68.38	LT	4.0
13+08.78		13+12.37	LT	9.0
Total:				18.0

**TABLE OF CONCRETE CURB REMOVAL-IOWA STREET**

Station	to	Station	L/R	Quantity (Ft)
3+99.16		4+08.20	RT	4.0
4+24.82		4+24.90	RT	5.0
4+92.00		5+01.01	RT	3.0
7+97.73		8+01.25	RT	4.0
15+80.91		15+81.07	LT	16.0
Total:				32.0

**TABLE OF CONCRETE CURB REMOVAL-MAIN STREET**

Station	to	Station	L/R	Quantity (Ft)
8+34.64		8+34.68	RT	9.0
13+30.67		13+30.73	RT	7.0
Total:				16.0

**TABLE OF CONCRETE DRIVEWAY PAVEMENT REMOVAL-WASHINGTON STREET**

Station	to	Station	L/R	Quantity (SqYd)
6+75.27		6+94.13	LT	1.0
Total:				1.0

**TABLE OF CONCRETE DRIVEWAY PAVEMENT REMOVAL-IOWA STREET**

Station	to	Station	L/R	Quantity (SqYd)
18+80.82		18+89.40	LT	4.2
18+80.24		18+89.96	LT	4.0
Total:				8.2

**REMOVAL OF EXISTING ASPHALT PAVEMENT**

The asphalt concrete pavement shall be disposed of by the Contractor. Payment for asphalt removal is included in the contract unit price per square yard for "Remove Asphalt Concrete Pavement". Payment shall be at the contract unit price per square yard, regardless of variations in thickness. The existing asphalt surfacing thickness is unknown.

**TABLE OF ASPHALT CONCRETE PAVEMENT REMOVAL-WASHINGTON STREET**

Station	to	Station	L/R	Quantity (SqYd)
4+75.92		4+80.82	LT	4.1
4+97.33		5+00.43	LT	1.1
12+37.30		12+41.04	LT	1.5
12+77.27		12+77.33	LT	0.6
12+95.22		12+95.24	LT	0.8
13+80.28		13+97.94	LT	14.5
14+20.41		14+28.39	LT	2.6
16+50.07		16+52.07	LT	0.8
16+67.72		16+68.58	LT	1.5
16+90.28		16+99.31	LT	1.5
16+87.73		16+96.85	RT	1.5
Total:				30.5

**TABLE OF ASPHALT CONCRETE PAVEMENT REMOVAL-MONTANA STREET**

Station	to	Station	L/R	Quantity (SqYd)
0+54.42		0+56.96	RT	1.6
Total:				1.6

**TABLE OF ASPHALT CONCRETE PAVEMENT REMOVAL- IOWA STREET**

Station	to	Station	L/R	Quantity (SqYd)
3+99.27		4+08.26	RT	2.6
4+28.33		4+28.41	RT	2.8
4+91.97		5+00.98	RT	3.5
7+97.64		8+23.85	RT	9.1
12+36.71		12+37.84	RT	3.0
12+46.23		12+50.32	LT	1.6
12+58.84		12+61.26	RT	1.5
12+83.15		12+92.11	LT	3.6
12+84.15		12+93.21	RT	1.5
15+81.29		15+94.45	LT	11.1
19+72.97		19+77.87	LT	1.2
19+92.20		19+94.39	LT	1.9
22+37.25		22+45.25	LT	0.5
Total:				43.9

**TABLE OF ASPHALT CONCRETE PAVEMENT REMOVAL-MAIN STREET**

Station	to	Station	L/R	Quantity (SqYd)
3+89.12		3+98.09	RT	1.6
4+18.32		4+18.62	RT	0.8
4+38.54		4+38.58	RT	0.8
7+70.38		7+79.38	RT	3.6
8+01.63		8+02.18	RT	1.4
8+19.67		8+31.10	RT	6.4
13+00.41		13+02.57	RT	1.5
13+27.16		13+30.73	RT	3.5
Total:				19.6

**SAW EXISTING ASPHALT PAVEMENT AND PCC CONCRETE**

Asphalt and concrete sawing shall be performed at all locations where asphalt pavement removal is shown on the plans or as directed by the Engineer during construction. The pavement shall be sawed full depth. The Contractor shall exercise particular care to ensure that the adjacent surface is left intact and undamaged when removing the sawed out portion. Sawing Existing Asphalt and PCC Concrete shall be considered incidental to the contract unit price per square yard for "Remove Asphalt Concrete Pavement" and the corresponding concrete removal bid items respectively.

Where new Portland Cement Concrete (PCC) is to be placed adjacent to existing PCC, the existing PCC shall be sawed full depth to a true line with a vertical face.

**REMOVE AND REPLACE TOPSOIL**

Prior to starting construction operations, a sufficient amount of topsoil shall be removed from the construction limits and stockpiled to cover the disturbed areas. Upon completion of the construction and grading work, topsoil shall be spread evenly over the disturbed areas to a depth of 6 inches.

No separate measurements will be made unless changes from the plan shown construction limits are ordered by the Engineer. Cost for the removal, stockpile and placement of topsoil shall be incidental to the contract lump sum price "Remove and Replace Topsoil". The contractor is responsible for hauling off any additional topsoil and spoil material. Payment for excavation including topsoil, in areas where sidewalk is to be constructed, shall be considered incidental to the contract unit price per square foot for "4" Concrete Sidewalk" and "6" Concrete Sidewalk".

**INCIDENTAL WORK**

Incidental Work shall consist if the following:

1. Disposal of any additional topsoil and spoil material resulting from the project
2. Re-grading areas around the curb ramps to facilitate proper drainage. Refer to the plan sheets for the various types of curb ramps and general drainage flow paths.
3. Removal and resetting landscape pavers or edging as necessary to construct the sidewalk. Any damage caused by the Contractor to the pavers or edging shall be replaced at the Contractor's expense.
4. Preservation of any property corners found during construction. Any monuments disturbed shall be reset at the Contractor's expense.

All costs associated with this item shall be paid at the contract lump sum price for "Incidental Work".

**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.

The following work shall be incidental to the bid item "Clearing":

1. Trimming trees identified in the plan sheets and any other trees that may encroach over the proposed sidewalk.
2. Removing bushes as identified in the plan sheets or any other small shrubbery that may be present in the area of the proposed sidewalk.
3. Root grinding on large trees shown in the plans or others as necessary to construct the proposed sidewalk.



**FOR BIDDING PURPOSES ONLY**

PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	6	41

**TABLE OF CLEARING ITEMS-MONTANA STREET**

Station	L/R	TYPE
2+84	32' R	Root Grinding
3+38	33' R	Root Grinding

**TABLE OF CLEARING ITEMS-IOWA STREET**

Station	L/R	TYPE
16+70	44' L	Tree Trimming
18+35	28' L	Root Grinding
19+31	41' L	Root Grinding
23+20	42' L	Tree Trimming
23+91	33' L	Remove Bush

**CLEAR AND GRUB TREE**

The unit price payment for "Clear and Grub Tree" will be full compensation for all removal and disposal of trees. The Engineer will establish right-of-way lines and construction lines prior to the start of clearing and grubbing operations. Removal of trees, are identified on plan sheets.

**TABLE OF CLEAR AND GRUB TREE-IOWA STREET**

Station	L/R
20+21	40' L
Total	1

**AGGREGATE BASE COURSE**

Two (2) inches of Aggregate Base course is required under all sidewalks and six (6) inches of aggregate base course is required under all curb and gutter, and asphalt concrete composite. Aggregate Base Course shall be in accordance with SDDOT Standard Specifications.

**CONCRETE**

All concrete for curb, curb and gutter, sidewalk, and driveway pavement shall be Class M-6 as detailed in the SDDOT Standards Specifications. The concrete sidewalk shall be constructed in accordance with Section 651 of the Standard Specifications. A 1/2" preformed expansion material shall be placed between the sidewalk and other concrete items (back of curb, driveways, existing sidewalks, etc.).

**CONCRETE CURING**

All concrete shall be cured in accordance with section 380.3.P.2 of the 2004 SDDOT Standard Specifications for Roads and Bridges except as modified in this note. All concrete shall be cured with a white pigmented linseed oil base emulsion compound when cured using the Impervious Membrane Method. Curing compound material shall be in accordance with section 821.1.D.

Apply liquid curing compound in a fine spray to form a continuous, uniform solid white opaque coverage (equal to a white sheet of typing paper) on the horizontal surface and vertical edges of pavement, curbs and back of curbs immediately after surface moisture has disappeared, but no later than 30 minutes after finishing. Concrete edges exposed by the removal of forms shall also be cured. Apply the curing compound in 2 equal applications, in opposing directions, to ensure a uniform coverage. With the approval of the Engineer, the timing of cure application may be adjusted due to varying weather conditions and concrete mix properties to ensure acceptable macrotexture is achieved.

**TABLE OF TYPE B66 CONCRETE CURB AND GUTTER-WASHINGTON STREET**

Station to	Station	L/R	Quantity (Ft)
12+37.62	12+46.22	L	9.3
12+65.07	12+67.92	L	8.0
Total:			17.3

**TABLE OF TYPE B66 CONCRETE CURB AND GUTTER-IOWA STREET**

Station to	Station	L/R	Quantity (Ft)
3+99.19	4+08.18	R	9
4+24.33	4+24.41	R	9
4+92.02	5+01.02	R	9
7+97.73	8+19.71	R	37
15+80.91	15+81.07	L	20
Total:			84.0

**TABLE OF TYPE OF B66 CONCRETE CURB AND GUTTER-MAIN STREET**

Station to	Station	L/R	Quantity (Ft)
7+70.19	7+79.19	R	9
8+34.97	8+35.09	R	15.5
13+31.16	13+31.23	R	9
Total:			33.5

**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.

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 <a href="http://www.neenahfoundry.com/">http://www.neenahfoundry.com/</a>
Detectable Warning Plate Cast Iron Plate	Deeter Foundry Lincoln, NE 800-234-7466 <a href="http://www.deeter.com/">http://www.deeter.com/</a>
Detectable Warning Plate Cast Iron Plate	East Jordan Iron Works, Inc. 301 Spring Street East Jordan, MI 49727 800-626-4653 <a href="http://www.ejiw.com">http://www.ejiw.com</a>
CAST-DWD Cast Iron Plate	Key 3 Casting (Northern Foundry) 555 West 25 <sup>th</sup> Street Hibbing, MN 55746 218-263-8871 <a href="http://key3casting.com">http://key3casting.com</a>

**TABLE OF DETECTABLE WARNINGS-WASHINGTON STREET**

Station	L/R	Quantity (SqFt)
4+78.69	37+6' L	8
4+99.48	37.6" L	10
9+09.46	35.4' L	10
12+42.06	20.9' L	10
12+66.03	55.6' L	8
13+07.88	41.1' L	10
16+35.38	36.0' L	10
16+69.57	35.6' L	10
16+92.32	11.3' R	10
16+94.89	17.8' L	10
		96

**TABLE OF DETECTABLE WARNINGS-MONTANA STREET**

Station	L/R	Quantity (SqFt)
0+57.7	36.5' R	10
		10

**TABLE OF DETECTABLE WARNINGS-IOWA STREET**

Station	L/R	Quantity (SqFt)
4+03.67	24.2' R	10
4+23.81	37.1' R	10
4+75.59	37.0' R	8
4+96.51	24.1' R	10
8+05.24	25.3' R	10
8+18.86	37.6' R	10
12+35.03	38.2' R	10
12+49.67	36.5' L	10
12+61.53	36.4' R	10
12+87.60	18.0' L	10
12+88.74	8.9' L	10
15+80.50	36.6' L	10
19+72.45	36.7' L	10
19+95.64	36.3' L	10
		138

**TABLE OF DETECTABLE WARNINGS-MAIN STREET**

Station	L/R	Quantity (SqFt)
3+93.72	22.2' R	10
4+10.32	47.0' R	10
4+47.36	46.2' R	10
7+74.69	25.6' R	10
7+99.75	46.1' R	10
8+35.44	45.9' R	10
13+00.06	45.5' R	10
13+31.71	45.8' R	10
		80

**TABLE OF 6" PCC DRIVEWAY PAVEMENT-IOWA STREET**

Station to	Station	L/R	Quantity (SqYd)
18+80.25	18+89.96	L	3.2
18+80.74	18+89.38	L	3.8
Total:			7.0



**FOR BIDDING PURPOSES ONLY**

PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	7	41

**TABLE OF 4" CONCRETE SIDEWALK-WASHINGTON STREET**

Station	to	Station	L/R	Width (Ft)	Quantity (SqFt)
4+73.12		4+79.32	L	4	36.4
4+98.82		5+13.82	L	4	70.1
6+71.33		6+75.27	L	4	18.2
6+94.20		7+22.87	L	5	116.3
9+08.91		10+65.57	L	5	818.0
10+77.06		12+65.43	L	5	783.7
13+06.12		13+80.94	L	5	490.5
13+97.22		14+20.67	L	5	117.1
14+28.41		16+35.89	L	5	1062.7
16+68.66		17+01.08	L	5	260.9
Total:					3,773.9

**TABLE OF 4" CONCRETE SIDEWALK-MONTANA STREET**

Station	to	Station	L/R	Width (Ft)	Quantity (SqFt)
0+55.92		1+35.65	R	5	406.7
1+80.67		4+13.96	R	5	1174.2
Total:					1,580.9

**TABLE OF 4" CONCRETE SIDEWALK-IOWA STREET**

Station	to	Station	L/R	Width (Ft)	Quantity (SqFt)
3+87.14		4+24.41	R	4/5	323.8
4+75.10		5+01.02	R	4/5	179.5
5+41.63		6+34.37	R	4	396.9
6+44.92		6+54.00	R	4/5	43.1
7+97.73		8+19.76	R	5	161.4
12+19.84		12+36.36	R	5	89.4
12+60.33		12+93.67	R	5	316.5
12+47.70		13+97.62	L	5	852.4
14+07.01		14+67.85	L	5	304.3
14+76.31		15+80.96	L	5	550.1
16+27.42		18+80.24	L	5	1366.1
18+89.96		19+76.57	L	5	431.6
19+93.66		20+34.48	L	5	205.8
22+37.22		22+45.22	L	4	30.3
22+70.33		25+18.41	L	5	1250.0
Total:					6,501.2

**TABLE OF 4" CONCRETE SIDEWALK-MAIN STREET**

Station	to	Station	L/R	Width (Ft)	Quantity (SqFt)
2+90.29		4+10.82	R	5	771.2
4+46.83		4+63.73	R	5	96.3
5+43.29		5+98.87	R	5	286.2
6+07.79		8+00.68	R	5	1109.9
8+34.97		9+47.97	R	5	632.2
9+58.33		10+17.72	R	5	302.7
12+67.68		13+01.08	R	5	177.6
13+31.16		13+45.36	R	5	105.3
14+54.43		14+82.41	R	5	49.0
15+13.08		16+05.50	R	5	462.1
Total:					3,992.5

**TABLE OF 6" CONCRETE SIDEWALK-WASHINGTON STREET**

Station	to	Station	L/R	Width (Ft)	Quantity (SqFt)
6+75.27		6+94.20	L	5	94.7
10+65.57		10+77.06	L	5	57.5
12+95.14		13+08.14	L	5	60.2
13+80.94		13+97.22	L	5	81.4
14+20.67		14+28.41	L	5	38.7
16+35.81		16+50.58	L	5	72.4
Total:					404.9

**TABLE OF 6" CONCRETE SIDEWALK-MONTANA STREET**

Station	to	Station	L/R	Width (Ft)	Quantity (SqFt)
1+35.65		1+80.67	R	5	224.3
Total:					224.3

**TABLE OF 6" CONCRETE SIDEWALK-IOWA STREET**

Station	to	Station	L/R	Width (Ft)	Quantity (SqFt)
6+34.37		6+44.92	R	5	52.8
13+97.62		14+07.01	L	5	46.9
14+67.85		14+76.31	L	5	42.3
16+22.86		16+25.12	L	5	12.0
16+67.16		16+71.16	L	4	33.4
18+80.24		18+89.96	L	5	48.6
Total:					236.0

**TABLE OF 6" CONCRETE SIDEWALK-MAIN STREET**

Station	to	Station	L/R	Width (Ft)	Quantity (SqFt)
4+10.82		4+17.12	R	5	30.7
4+40.06		4+46.87	R	5	34.0
5+98.87		6+07.79	R	5	44.6
8+21.16		8+32.39	R	5	56.1
9+47.97		9+58.33	R	5	51.8
Total:					217.2

**SIDEWALK DRAINS**

At the locations noted in the Table of Sidewalk Drains, roadway drainage will be carried through the sidewalk to the catch basin. The sidewalk drains shall be constructed in accordance with the details shown on Standard Plate 651.50.

**TABLE OF SIDEWALK DRAINS-WASHINGTON STREET**

Station	L/R	Length (Ft)
16+94.7	L	5.0
Totals:		5.0

**TABLE OF SIDEWALK DRAINS-MONTANA STREET**

Station	L/R	Length (Ft)
4+02.7	R	4.0
Totals:		4.0

**TABLE OF SIDEWALK DRAINS-IOWA STREET**

Station	L/R	Length (Ft)
20+01.8	L	5.0
Totals:		5.0

**TABLE OF SIDEWALK DRAINS-MAIN STREET**

Station	L/R	Length (Ft)
12+88.3	R	5.0
Totals:		5.0

**ASPHALT CONCRETE COMPOSITE**

Mineral aggregate for the Asphalt Concrete Composite shall conform to the requirements for Class E, Type 1.

All other requirements in the Standard Specifications for Asphalt Concrete Composite shall apply.

The asphalt binder used in the mixture shall be PG 64-22 or PG 64-28 Asphalt Binder.

**GENERAL MAINTENANCE OF TRAFFIC**

The quantity of Signs paid for will be for the greatest number of installations per sign in place at any one time regardless of the number of set-ups on the project. If the contractor elects to work in certain areas of the project, signage shall be set up for that area and not the entire project. The traffic control layout shows necessary sign locations when working in that area. Additional locations may be necessary depending on the work area.

Four (4) R9-10 "Sidewalk Closed, Use Other Side" signs are included in the plans and shall be used when an existing sidewalk exists on the opposite side of the street where the old sidewalk is being replaced.

Two (2) W3-4 "Be Prepared to Stop" signs and two (2) W20-7a "Flagger" signs are included in the plans and shall be used when flagging is required and as per standard plate 634.30.

Traffic control shall be according to the most current edition of the Manual on Uniform Traffic Control Devices (MUTCD).

All paved streets adjacent to the project are to be cleaned at the end of each working day.

Removing, relocating, salvaging, and resetting of existing traffic control devices, including delineation, shall be the responsibility of the Contractor. Any delineators and signs damaged or lost shall be replaced by the Contractor at no cost to the City. Payment for removing, salvaging, installing, and/or resetting of signs shall be incidental to the lump sum item for "Traffic Control, Miscellaneous".

Storage of vehicles and equipment shall be outside the clear zone and as near as possible to the right-of-way line. Contractor's employees should mobilize at a location off the right-of-way and arrive at the work sites in a minimum number of vehicles necessary to perform the work.

Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage to the vegetation, surfacing, embankment, delineators and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor, at no expense to the City, and to the satisfaction of the Engineer.

The Contractor shall provide documentation that all breakaway sign supports comply with FHWA NCHRP 350 or MASH crash-worthy requirements. The Contractor shall provide installation details at the preconstruction meeting for all breakaway sign support assemblies.

The Contractor or designated traffic control subcontractor shall ensure the adequacy, legibility, and reflectivity of each sign and device. Sign washing shall be considered incidental to the contract lump sum price for "Traffic Control, Miscellaneous" and required as directed by the Engineer.

Flagger warning signs shall be installed when using flaggers to direct traffic. Flaggers shall wear appropriate safety clothing and shall use a Stop/Slow paddle. Payment for flagging will be at the contract unit price per hour if a bid item has been included. If no bid item is included, flagging shall be incidental to the contract lump sum price for "Traffic Control, Miscellaneous".

**PEDESTRIAN TRAFFIC**

The Contractor shall protect all work areas for the safety of pedestrians. Safety fence shall be installed around all work areas that are adjacent to pedestrian walkways and at other locations as designated by the Engineer. Payment for all work and associated materials shall be incidental to the contract lump sum price for "Traffic Control, Miscellaneous".

**FURNISH AND INSTALL TRAFFIC SIGNS**

The signs listed on the Permanent Sign Table in the plans as new installations shall be provided for the locations specified.

**SIGN LEGEND, BORDER AND BACKGROUND**

All sign materials shall comply with the Standard Specifications. All sign legend, border, and background sheeting material shall be Diamond Grade Type XI (ASTM D4956). All upper case letters, lower cases letters, and numerals shall be Series "E" Modified unless otherwise shown on the plans.

The corner radii on all signs 3 ft. or less in height shall be 3 inches. The corner radii on all signs greater than 3 ft. and less than 6 ft. in height shall be 6 inches. The sign height, sign width, length, height, and symbol sizes are specified herein.



**FOR BIDDING PURPOSES ONLY**

PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	8	41

**HARDWARE**

The Contractor shall use 5/16" stainless steel machine sign bolts, stainless steel flat metal washers, nylon washers (against the sign sheeting), and Nylock nuts to fasten the sign to the perforated tube post. A minimum of two bolts shall extend through the post.

The cost for all hardware items shall be incidental to the contract unit price for each type of sign based on sheeting requirements per square foot of sign.

**SIGN POSTS**

The plan post lengths shall be field verified by the Contractor prior to installation.

The Contractor shall provide Perforated Tube Post sign supports for each sign as listed in the Permanent Sign Table in these plans. 2" and 2 1/4" square perforated tube post shall be fabricated from 12 gauge galvanized steel. 2 1/2" square perforated tube post shall be fabricated from 10 gauge galvanized steel. Heavy gauge galvanized steel anchor stub posts that do not require stiffener sleeves may be required by the manufacturer for 2 1/2" square perforated tube direct drive anchor post installations. Anchor wings are required for anchor posts with signs greater than 7 sq. ft. in total size. Anchor posts shall be 4 ft. in length.

Perforated square (breakaway 2" x 2") sign supports shall be required for each sign. These supports shall be new and provided by the Contractor. Sign posts shall be of length adequate to provide the proper height above the roadway and to extend to the top of the sign. The signpost shall not extend past the top of the sign.

All breakaway sign supports shall comply with FHWA NCHRP 350 crash-worthy requirements. The cost for sign supports shall be included in the respective contract unit price per foot for the post and footing size indicated. The cost for anchor and stub posts shall be incidental to the respective contract unit price per foot for the post size indicated, and are not included in the estimate of quantities.

**DATE DECAL**

The Contractor shall affix a date decal to each new sign installed. Each decal is a self-adhesive sticker approximately 2" X 2" with removable paper backing and black numerals on a white background. The date decal displays the last two digits of the year the sign was manufactured (as illustrated). One decal shall be placed in the extreme lower left corner of the back of flat aluminum signs.



Sign supports or other obstructions shall not block the view of the date decal upon completion of the sign installation.

All costs for furnishing and installing of date decals on new signs shall be incidental to the contract unit price for the various signing bid items.

**PLACEMENT**

The clearance to the bottom of the sign shall be 7' to 7 1/2'. The height to the bottom of a secondary sign mounted below another sign may be 1' less than the appropriate height specified above.

Generally, all signs shall be placed as located on the plans. In no case shall a sign be placed closer to the roadway than the distance specified in the standard plate.

All signs shall be installed facing traffic at a 90 degree angle to the direction of travel.

**REMOVE, SALVAGE, RELOCATE, AND RESET TRAFFIC SIGN**

The Contractor shall neatly stockpile salvaged signs, posts, and related hardware at the Centerville Maintenance Facility. The Contractor shall remove the sign(s) first and remove the post(s) and footings (if present) separate. Signs, reusable posts, and hardware damaged or lost due to carelessness shall be replaced in kind at the contractor's expense. All nuts, bolts, and miscellaneous mounting hardware salvaged from existing signs shall not be reused.

The existing footings for fixed base sign posts shall be removed entirely or broken down a minimum of 1 foot below the surface of the final grade at topsoil elevation.

The cost for removal and salvage of flat aluminum sign assemblies, including post and footing, utility or light pole mounted signs, and miscellaneous hardware shall be incidental to the contract unit price per each for "Remove, Salvage, Relocate, and Reset Traffic Sign". When multiple signs are on the same post, they shall be measured and paid as one.

All costs required including labor, equipment, and materials to mount salvaged signs, shall be paid under the contract unit price per each for "Remove, Salvage, Relocate, and Reset Traffic Sign". New signs installed are incidental to the contract unit price for each type of sign based on sheeting requirements per square foot of sign. When multiple signs are on the same post, or several signs are on two posts, payment will be made only once for each sign assembly installed.

**TABLE OF REMOVE, SALVAGE, RELOCATE, AND RESET TRAFFIC SIGN**

**-MAIN STREET**

Station	Type	L/R	Qty
8+30.9	Stop Sign	50.5' R	1
13+33.8	Stop Sign	50.8' R	1
Totals:			2

**SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES**

This type of sediment control device should be used where there is pavement in the vicinity of the drop inlets and storm water or sediment could possibly enter the frame and grate. Sediment Control at Inlets with Frame and Grates shall be installed prior to working in the vicinity of the drop inlets.

The Contractor shall be responsible for maintaining and repairing the sediment control devices for the duration of the project for which sediment control measures are required. Maintenance shall be scheduled to prevent storm water from backing up into the driving lane.

"Sediment Control at Inlets with Frames and Grates" will be paid for one time at each location, regardless of the number of times the sediment control devices are installed, inspected, cleaned, removed, repaired, or replaced. All costs associated with furnishing, installing, inspecting, maintaining, cleaning, sediment removal, and repairing Sediment Control at Inlets with Frames and Grates shall be incidental to the contract unit price per each for "Sediment Control at Inlet with Frame and Grate".

Sediment collection devices shall be:

A commercial made sediment collection device from the "Sediment Control at Inlet with Frame and Grate" list or an approved equal. The device shall be installed in reinforced concrete drop inlets according to the manufacturer's recommendations.

Sediment Control at Inlet with Frame and Grate Approved List:

Product	Manufacturer
InfraSafe Debris Collection Device with filter sock	Royal Environmental Systems, Inc. Stacy, MN Phone: 1-800-817-3240 www.royalenterprises.net
Dandy Curb Sack	Dandy Products Inc. Dublin, OH Phone: 1-800-591-2284 www.dandyproducts.com
Silt Trapper	Storm Water Solutions Lakeville, MN Phone: 1-952-461-4376 www.silttrapper.com
DIP Basket	Skyview Construction Co., LLC Waubay, SD Phone: 1-605-520-0555 www.skyviewconst.com

Sediment Control at Inlet with Frame and Grate Approved List: (Continued)

FLEXSTORM Inlet Filters	Inlet and Pipe Protection, Inc. Naperville, IL Phone: 1-866-287-8655 www.inletfilters.com
GR-8 Guard or Combo Guard	ERTEC Environmental Systems LLC Alameda, CA Phone: 1-866-521-0724 www.ertecsystems.com
Sediment Catchers	Shaun Jensen Brookings, SD Phone: 1-605-690-4950 Enviroscape ECM, Ltd. Oakwood, OH Phone: 1-419-594-3210 www.strawblanket.com
Grate FX, Slammer, or VertPro	
BX Inlet Sediment Boxes	BX Civil and Construction Dell Rapids, SD Phone: 1-605-428-5483 bx-cc.com

**TABLE OF SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES - WASHINGTON STREET**

Station	L/R	Quantity (Each)
5+11.2	L	1
12+57.6	L	1
16+86.3	L	1
16+83.8	R	1
Totals:		4

**TABLE OF SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES - IOWA STREET**

Station	L/R	Quantity (Each)
4+73.5	R	1
8+16.9	R	1
14+15.5	L	1
15+82.2	L	1
19+62.2	L	1
20+09.6	L	1
22+70.8	L	1
Totals:		7

**TABLE OF SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES - MAIN STREET**

Station	L/R	Quantity (Each)
4+52.7	R	1
5+47.3	R	1
7+89.0	R	1
12+88.8	R	1
13+28.9	R	1
Totals:		5



FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	9	41

**PERMANENT SEEDING**

The areas to be seeded consist of all newly graded areas within the project limits except for the top of roadways, sidewalks and other paved or gravel areas.

All permanent seed shall be planted in the topsoil at a depth of ¼" to ½".

All seed broadcast must be raked or dragged in (incorporated) within the top ¼" to ½" of topsoil when possible. This requirement may be waived by the Engineer during construction when raking or dragging is deemed not feasible by conventional methods.

The varieties listed for seed mixtures are preferred varieties.

Native harvest seed will be allowed.

The **special permanent seed mixture #1 (Turf Mix)** shall consist of the following:

<u>Seed Mixture</u>	<u>(Pounds per Acre)</u>
Kentucky Bluegrass	168.8
Palmer IV Perennial Ryegrass	18.0
<u>Boreal Creeping Red Fescue</u>	<u>38.2</u>
Total Pounds per Acre	225.0

Seed shall have a minimum purity of 98% and a minimum germination of 85%. Seed shall be delivered to the project in bags with seed tags attached.

Application of fertilizer will not be required on this project.

**FIBER MULCHING**

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

Fiber mulch shall be applied at the rate of 2000 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.

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>



**FOR BIDDING PURPOSES ONLY**

PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	10	41

**STORM WATER POLLUTION PREVENTION PLAN CHECKLIST**

*(The numbers right of the title headings are reference numbers to the GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES)*

❖ **SITE DESCRIPTION (4.2.1)**

- **Project Limits: See Project Scope on Sheet C1 (4.2.1.b)**
- **Project Description: See Project Scope on Sheet C1 (4.2.1.a.)**
- **Site Map(s): See Title Sheet and Plans (4.2.1.f. (1)-(6))**
- **Major Soil Disturbing Activities** (check all that apply)
  - Clearing and grubbing
  - Excavation/borrow
  - Grading and shaping
  - Filling
  - Cutting and filling
  - Other (describe): Sidewalk and pedestrian ramp installation
- **Total Project Area** 0.92 Ac **(4.2.1.b.)**
- **Total Area To Be Disturbed** 0.92 Ac **(4.2.1.b.)**
- **Existing Vegetative Cover (%)** 100
- **Soil Properties: Topsoil (4.2.1.d.)**
- **Name of Receiving Water Body/Bodies** Vermillion River **(4.2.1.e.)**

❖ **ORDER OF CONSTRUCTION ACTIVITIES (4.2.1.c.)**

- (Stabilization measures shall be initiated as soon as possible, but in no case later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Initiation of final or temporary stabilization may exceed the 14-day limit if earth disturbing activities will be resumed within 21 days.)
- **Install erosion control devices**
  - **Remove and stockpile topsoil**
  - **Remove existing sidewalk**
  - **Install new sidewalk and pedestrian ramps**
  - **Install topsoil and complete final grading**
  - **Reseed all disturbed areas**

❖ **EROSION AND SEDIMENT CONTROLS (4.2.2.a.(1)(a)-(f))**

- (Check all that apply)
- **Stabilization Practices (See Detail Plan Sheets)**
    - Temporary Seeding (Cover Crop Seeding)
    - Permanent Seeding
    - Sodding
    - Planting (Woody Vegetation for Soil Stabilization)
    - Mulching (Grass Hay or Straw)
    - Hydraulic Mulch (Wood Fiber Mulch)
    - Soil Stabilizer
    - Bonded Fiber Matrix
    - Erosion Control Blankets or Mats
    - Vegetation Buffer Strips
    - Roughened Surface (e.g. tracking)
    - Dust Control
    - Other:
  - **Structural Temporary Erosion and Sediment Controls**
    - Silt Fence
    - Floating Silt Curtain
    - Straw Bale Check
    - Temporary Berm
    - Temporary Slope Drain
    - Straw Wattles or Rolls
    - Turf Reinforcement Mat
    - Rip Rap
    - Gabions
    - Rock Check Dams
    - Sediment Traps/Basins
    - Inlet Protection
    - Outlet Protection
    - Surface Inlet Protection (Area Drain)
    - Curb Inlet Protection
    - Stabilized Construction Entrances
    - Entrance/Exit Equipment Tire Wash
    - Interceptor Ditch
    - Concrete Washout Area
    - Temporary Diversion Channel
    - Work Platform
    - Temporary Water Barrier
    - Temporary Water Crossing
    - Other:

➤ **Wetland Avoidance**

Will construction and/or erosion and sediment controls impinge on regulated wetlands? Yes  No  If yes, the structural and erosion and sediment controls have been included in the total project wetland impacts and have been included in the 404 permit process with the USACE.

➤ **Storm Water Management (4.2.2.b., (1) and (2))**

Storm water management will be handled by temporary controls outlined in "EROSION AND SEDIMENT CONTROLS" above, and any permanent controls needed to meet permanent storm water management needs in the post construction period. Permanent controls will be shown on the plans and noted as permanent.

➤ **Other Storm Water Controls (4.2.2.c., (1) and (2))**

- **Waste Disposal**

All liquid waste materials will be collected and stored in sealed metal containers approved by the project engineer. All trash and construction debris from the site will be deposited in the approved containers. Containers will be serviced as necessary, and the trash will be hauled to an approved disposal site or licensed landfill. All onsite personnel will be instructed in the proper procedures for waste disposal, and notices stating proper practices will be posted in the field office. The general contractor's representative responsible for the conduct of work on the site will be responsible for seeing waste disposal procedures are followed.
- **Hazardous Waste**

All hazardous waste materials will be disposed of in a manner specified by local or state regulations or by the manufacturer. Site personnel will be instructed in these practices, and the individual designated as the contractor's on-site representative will be responsible for seeing that these practices are followed.
- **Sanitary Waste**

Portable sanitary facilities will be provided on all construction sites. Sanitary waste will be collected from the portable units in a timely manner by a licensed waste management contractor or as required by any local regulations.

❖ **Maintenance and Inspection (4.2.3. and 4.2.4.)**

- **Maintenance and Inspection Practices**
  - Inspections will be conducted at least one time per week and after a storm event of 0.50 inches or greater.
  - All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report.
  - Silt fence will be inspected for depth of sediment and for tears in order to ensure the fabric is securely attached to the posts and that the posts are well anchored. Sediment buildup will be removed from the silt fence when it reaches 1/3 of the height of the silt fence.
  - Sediment basins and traps will be checked. Sediment will be removed when depth reaches approximately 50 percent of the structure's capacity, and at the conclusion of the construction.
  - Check dams will be inspected for stability. Sediment will be removed when depth reaches 1/2 the height of the dam.
  - All seeded areas will be checked for bare spots, washouts, and vigorous growth free of significant weed infestations.
  - Inspection and maintenance reports will be prepared on form DOT 298 for each site inspection, this form will also be used to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents.
  - The SDDOT Project Engineer and contractor's site superintendent are responsible for inspections. Maintenance, repair activities are the responsibility of the contractor. The SDDOT Project Engineer will complete the inspection and maintenance reports and distribute copies per the distribution instructions on DOT 298.

❖ **Non-Storm Water Discharges (3.0)**

The following non-storm water discharges are anticipated during the course of this project (check all that apply).

- Discharges from water line flushing.
- Pavement wash-water, where no spills or leaks of toxic or hazardous materials have occurred.
- Uncontaminated ground water associated with dewatering activities.

❖ **Materials Inventory (4.2.2.c.(2))**

The following materials or substances are expected to be present on the site during the construction period. These materials will be handled as noted under the headings "EROSION AND SEDIMENT CONTROLS" and "SPILL PREVENTION" (check all that apply).

- Concrete and Portland Cement
- Detergents
- Paints
- Metals
- Bituminous Materials
- Petroleum Based Products
- Cleaning Solvents
- Wood
- Cure
- Texture
- Chemical Fertilizers
- Other:

❖ **Spill Prevention (4.2.2.c.(2))**

- **Material Management**
  - **Housekeeping**
    - Only needed products will be stored on-site by the contractor.
    - Except for bulk materials the contractor will store all materials under cover and in appropriate containers.
    - Products must be stored in original containers and labeled.
    - Material mixing will be conducted in accordance with the manufacturer's recommendations.
    - When possible, all products will be completely used before properly disposing of the container off site.
    - The manufacturer's directions for disposal of materials and containers will be followed.
    - The contractor's site superintendent will inspect materials storage areas regularly to ensure proper use and disposal.
    - Dust generated will be controlled in an environmentally safe manner.
    - Vegetation areas not essential to the construction project will be preserved and maintained as noted on the plans.
  - **Hazardous Materials**
    - Products will be kept in original containers unless the container is not resealable.
    - Original labels and material safety data sheets will be retained in a safe place to relay important product information.
    - If surplus product must be disposed of, manufacturer's label directions for disposal will be followed.
    - Maintenance and repair of all equipment and vehicles involving oil changes, hydraulic system drain down, de-greasing operations, fuel tank drain down and removal, and other activities which may result in the accidental release of contaminants will be conducted on an impervious surface and under cover during wet weather to prevent the release of contaminants onto the ground.
    - Wheel wash water will be collected and allowed to settle out suspended solids prior to discharge. Wheel wash water will not be discharged directly into any storm water system or storm water treatment system.
    - Potential pH-modifying materials such as: bulk cement, cement kiln dust, fly ash, new concrete washings, concrete pumping, residuals from concrete saw cutting (either wet or dry), and mixer washout waters will be collected on site and managed to prevent contamination of storm water runoff.



**FOR BIDDING PURPOSES ONLY**

PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	11	41

➤ **Product Specific Practices (6.8)**

- **Petroleum Products**  
All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled.
- **Fertilizers**  
Fertilizers will be applied only in the amounts specified by the SDDOT. Once applied, fertilizers will be worked into the soil to limit the exposure to storm water. Fertilizers will be stored in an enclosed area. The contents of partially used fertilizer bags will be transferred to sealable containers to avoid spills.
- **Paints**  
All containers will be tightly sealed and stored when not required for use. The excess will be disposed of according to the manufacturer's instructions and any applicable state and local regulations.
- **Concrete Trucks**  
Contractors will provide designated truck washout areas on the site. These areas must be self-contained and not connected to any storm water outlet of the site. Upon completion of construction washout areas will be properly stabilized.

➤ **Spill Control Practices (4.2 2 c.(2))**

- In addition to the previous housekeeping and management practices, the following practices will be followed for spill prevention and cleanup if needed.
- For all hazardous materials stored on site, the manufacturer's recommended methods for spill cleanup will be clearly posted. Site personnel will be made aware of the procedures and the locations of the information and cleanup supplies.
  - Appropriate cleanup materials and equipment will be maintained by the contractor in the materials storage area on-site. As appropriate, equipment and materials may include items such as brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for cleanup purposes.
  - All spills will be cleaned immediately after discovery and the materials disposed of properly.
  - The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
  - After a spill a report will be prepared describing the spill, what caused it, and the cleanup measures taken. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring, as well as clean up instructions in the event of reoccurrences.
  - The contractor's site superintendent, responsible for day-to-day operations, will be the spill prevention and cleanup coordinator. The contractor is responsible for ensuring that the site superintendent has had appropriate training for hazardous materials handling, spill management, and cleanup.

➤ **Spill Response (4.2 2 c.(2))**

- The primary objective in responding to a spill is to quickly contain the material(s) and prevent or minimize migration into storm water runoff and conveyance systems. If the release has impacted on-site storm water, it is critical to contain the released materials on-site and prevent their release into receiving waters. If a spill of pollutants threatens storm water or surface water at the site, the spill response procedures outlined below must be implemented in a timely manner to prevent the release of pollutants.
- The contractor's site superintendent will be notified immediately when a spill or the threat of a spill is observed. The superintendent will assess the situation and determine the appropriate response.
  - If spills represent an imminent threat of escaping erosion and sediment controls and entering receiving waters, personnel will be directed to respond immediately to contain the release and notify the superintendent after the situation has been stabilized.
  - Spill kits containing appropriate materials and equipment for spill response and cleanup will be maintained by the contractor at the site.
  - If oil sheen is observed on surface water (e.g. settling ponds, detention ponds, swales), action will be taken immediately to remove the material causing the sheen. The contractor will use appropriate materials to contain and absorb the spill. The source of the oil sheen will also be identified and removed or repaired as necessary to prevent further releases.
  - If a spill occurs the superintendent or the superintendent's designee will be responsible for completing the spill reporting form and for reporting the spill to SD DENR.
  - Personnel with primary responsibility for spill response and cleanup will receive training by the contractor's site superintendent or designee. The training must include identifying the location of the spill kits and other spill response equipment and the use of spill response materials.
  - Spill response equipment will be inspected and maintained as necessary to replace any materials used in spill response activities.

❖ **Spill Notification**

In the event of a spill, the contractor's site superintendent will make the appropriate notification(s), consistent with the following procedures:

- A release or spill of a regulated substance (includes petroleum and petroleum products) must be reported to DENR immediately **if any one of the following** conditions exists:
  - The discharge threatens or is in a position to threaten the waters of the state (surface water or ground water).
  - The discharge causes an immediate danger to human health or safety.
  - The discharge exceeds 25 gallons.
  - The discharge causes a sheen on surface water.
  - The discharge of any substance that exceeds the ground water quality standards of ARSD (Administrative Rules of South Dakota) chapter 74:51:01.
  - The discharge of any substance that exceeds the surface water quality standards of ARSD chapter 74:51:01.
  - The discharge of any substance that harms or threatens to harm wildlife or aquatic life.
  - The discharge of crude oil in field activities under SDCL (South Dakota Codified Laws) chapter 45-9 is greater than 1 barrel (42 gallons).

To report a release or spill, call DENR at 605-773-3296 during regular office hours (8 a.m. to 5 p.m. Central time). To report the release after hours, on weekends or holidays, call State Radio Communications at 605-773-3231. Reporting the release to DENR does not meet any obligation for reporting to other state, local, or federal agencies. Therefore, the responsible person must also contact local authorities to determine the local reporting requirements for releases. DENR recommends that spills also be reported to the National Response Center at (800) 424-8802.

❖ **Construction Changes (4.4)**

When changes are made to the construction project that will require alterations in the temporary erosion controls of the site, the Storm Water Pollution Prevention Plan (SWPPP) will be amended to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The SDDOT Project Engineer will modify the SWPPP plan (DOT 298) and drawings to reflect the needed changes. Copies of changes will be routed per DOT 298. Copies of forms and the SWPPP will be retained in a designated place for review over the course of the project.

❖ **CERTIFICATIONS**

➤ **Certification of Compliance with Federal, State, and Local Regulations**

The Storm Water Pollution Prevention Plan (SWPPP) for this project reflects the requirements of all local municipal jurisdictions for storm water management and sediment and erosion control as established by ordinance, as well as other state and federal requirements for sediment and erosion control plans, permits, notices or documentation as appropriate.

➤ **South Dakota Department of Transportation**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Authorized Signature (See the General Permit, Section 6.7.1.C.)

➤ **Prime Contractor**

This section is to be executed by the General Contractor after the award of the contract. This section may be executed any time there is a change in the Prime Contractor of the project.

I certify under penalty of law that this document and all attachments will be revised or maintained under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature

❖ **CONTACT INFORMATION**

➤ **Contractor Information:**

- Prime Contractor Name:
- Contractor Contact Name:
- Address:
- Address:
- City: State: Zip:
- Office Phone: Field:
- Cell Phone: Fax:

➤ **Erosion Control Supervisor**

- Name:
- Address:
- Address:
- City: State: Zip:
- Office Phone: Field:
- Cell Phone: Fax:

➤ **SDDOT Project Engineer**

- Name:
- Business Address:
- Job Office Location:
- City: State: Zip:
- Office Phone: Field:
- Cell Phone: Fax:

➤ **SD DENR Contact Spill Reporting**

- Business Hours Monday-Friday (605) 773-3296
- Nights and Weekends (605) 773-3231

➤ **SD DENR Contact for Hazardous Materials.**

- (605) 773-3153

➤ **National Response Center Hotline**

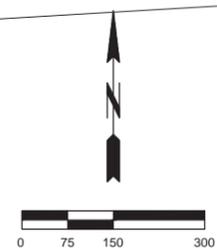
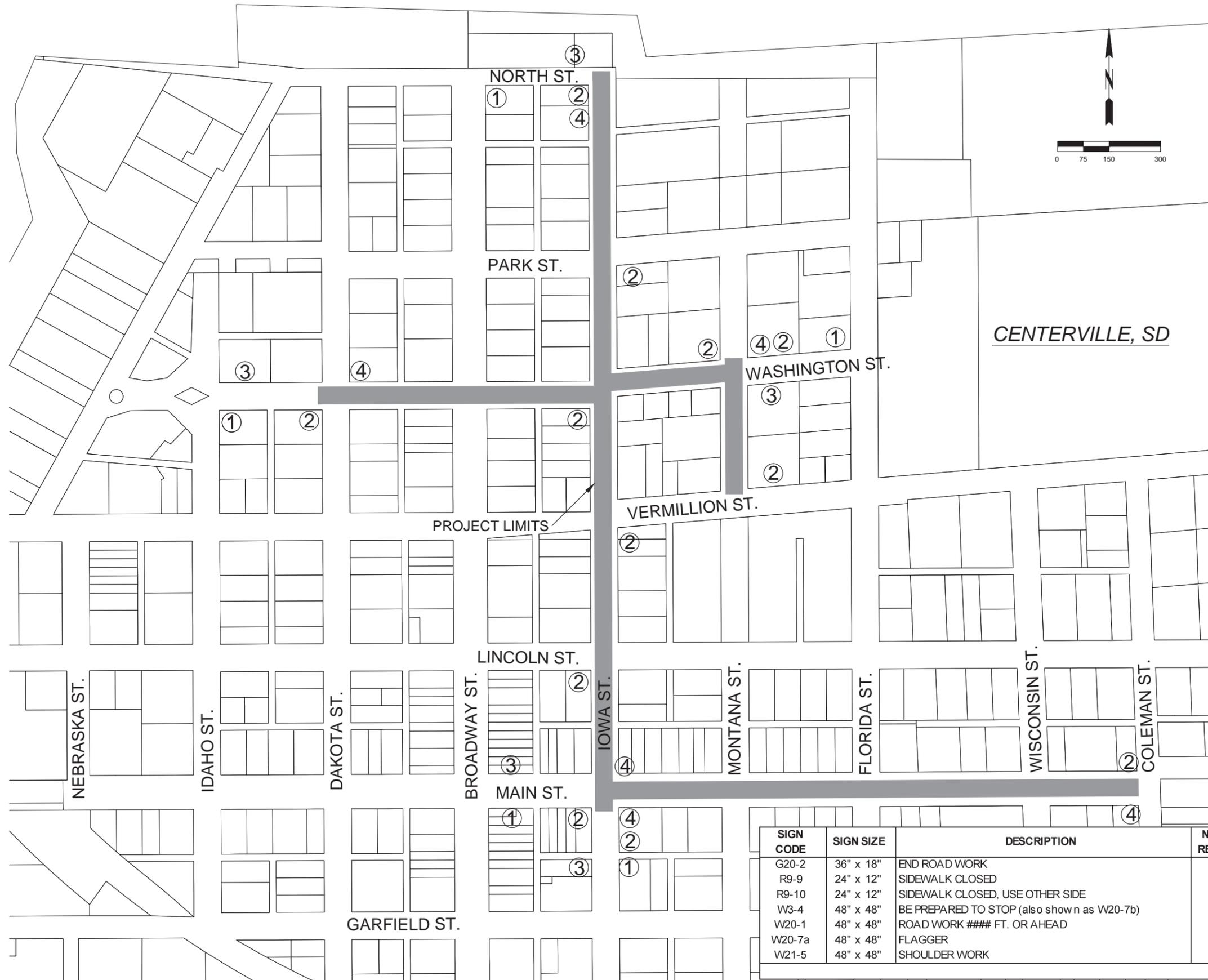
- (800) 424-8802.

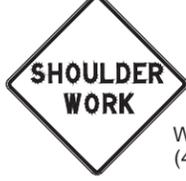


# TRAFFIC CONTROL

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	12	41



- ①  ROAD WORK AHEAD  
W20-1 (48" X 48")
- ②  SHOULDER WORK  
W21-5 (48" X 48")
- ③  END ROAD WORK  
G20-2 (36" X 18")
- ④  SIDEWALK CLOSED  
R9-9 (24" X 12")
- ⑤  SIDEWALK CLOSED  
USE OTHER SIDE  
R9-10 (24" X 12")
- ⑥  BE PREPARED TO STOP  
W3-4 (48" X 48")
- ⑦  W20-7a (48" X 48")

SIGN CODE	SIGN SIZE	DESCRIPTION	NUMBER REQUIRED	UNITS PER SIGN	UNITS
G20-2	36" x 18"	END ROAD WORK	5	17	85
R9-9	24" x 12"	SIDEWALK CLOSED	6	4	24
R9-10	24" x 12"	SIDEWALK CLOSED, USE OTHER SIDE	4	4	16
W3-4	48" x 48"	BE PREPARED TO STOP (also shown as W20-7b)	2	34	68
W20-1	48" x 48"	ROAD WORK ##### FT. OR AHEAD	5	34	170
W20-7a	48" x 48"	FLAGGER	2	34	68
W21-5	48" x 48"	SHOULDER WORK	12	34	408
<b>TOTAL UNITS</b>					<b>839</b>



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PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	13	41

CONTROL DATA

HORIZONTAL AND VERTICAL CONTROL POINTS						
POINT	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	ELEVATION
<b>IOWA STREET</b>						
1021	12+12.91	25.85' RT	Top Nut Fire Hydrant	15669559.56	2184977.11	1230.46
1027	16+12.60	34.10' RT	Top Nut Fire Hydrant	15669959.32	2184972.35	1229.02
1025	20+57.08	22.50' RT	Top Nut Fire Hydrant	15670402.95	2184945.96	1228.86
1026	25+13.63	20.82' RT	Top Nut Fire Hydrant	15670859.30	2184932.49	1230.64
1004	5+06.96	24.28' LT	CP Nail	15668852.29	2184951.78	1225.15
<b>MONTANA STREET</b>						
1029	0+76.79	35.21' RT	Top Nut Fire Hydrant	15669677.49	2185361.42	1229.37
1030	3+97.01	44.00' RT	Top Nut Fire Hydrant	15669997.83	2185360.64	1231.29
<b>MAIN STREET</b>						
1002	5+63.45	30.95' LT	CP Nail	15668844.56	2185490.14	1226.52
1003	13+50.24	31.45' LT	CP Nail	15668871.67	2186276.47	1227.72
<b>GARFIELD STREET</b>						
1001	6+17.82	23.95' RT	CP Nail	15668403.13	2185599.99	1227.28
1000	13+27.20	25.30' RT	CP Nail	15668425.78	2186309.02	1228.11

The coordinates shown on this sheet are based on the UTM Coordinate System.  
 Zone 14 North (NAD 83/CORS96) Grid  
 The elevations shown on this sheet are based on NAVD 88.



**FOR BIDDING PURPOSES ONLY**

PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	14	41

**Alignment: Garfield-CL**

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	0+00.000	15668406.165	2184981.716
End:	16+26.189	15668461.185	2186606.973
<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	1626.189	Course:	N 88° 03' 39.9977" E

**Alignment: Iowa-CL**

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	0+00.000	15668346.491	2184993.815
End:	4+50.050	15668796.265	2184978.036
<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	450.050	Course:	N 02° 00' 33.3985" W

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	4+50.050	15668796.265	2184978.036
End:	8+40.050	15669186.025	2184964.367
<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	390.000	Course:	N 02° 00' 30.8805" W

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	8+40.050	15669186.025	2184964.367
End:	12+41.382	15669587.110	2184950.276
<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	401.332	Course:	N 02° 00' 43.4080" W

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	12+41.382	15669587.110	2184950.276
End:	16+04.509	15669950.047	2184938.554
<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	363.127	Course:	N 01° 50' 59.8736" W

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	16+04.509	15669950.047	2184938.554
End:	19+84.137	15670329.445	2184925.353

<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	379.628	Course:	N 01° 59' 33.7273" W

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	19+84.137	15670329.445	2184925.353
End:	25+53.648	15670898.767	2184910.648

<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	569.512	Course:	N 01° 28' 46.4073" W

**Alignment: Main-CL**

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	0+00.000	15668794.574	2184928.065
End:	16+52.691	15668850.465	2186579.811

<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	1652.691	Course:	N 88° 03' 43.1699" E

**Alignment: Montana-CL**

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	0+00.000	15669599.678	2185328.519
End:	4+71.323	15670070.790	2185314.437

<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	471.323	Course:	N 01° 42' 43.8571" W



FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P SRTS(30)	15	41

Alignment: Washington

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	0+00.000	15669902.503	2183669.384
End:	12+29.997	15669948.418	2184898.524

<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	1229.997	Course:	N 87° 51' 38.4212" E

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	12+29.997	15669948.418	2184898.524
End:	13+15.591	15669982.370	2184977.097

<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	85.595	Course:	N 66° 37' 51.2910" E

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	13+15.591	15669982.370	2184977.097
End:	19+97.774	15670059.254	2185654.933

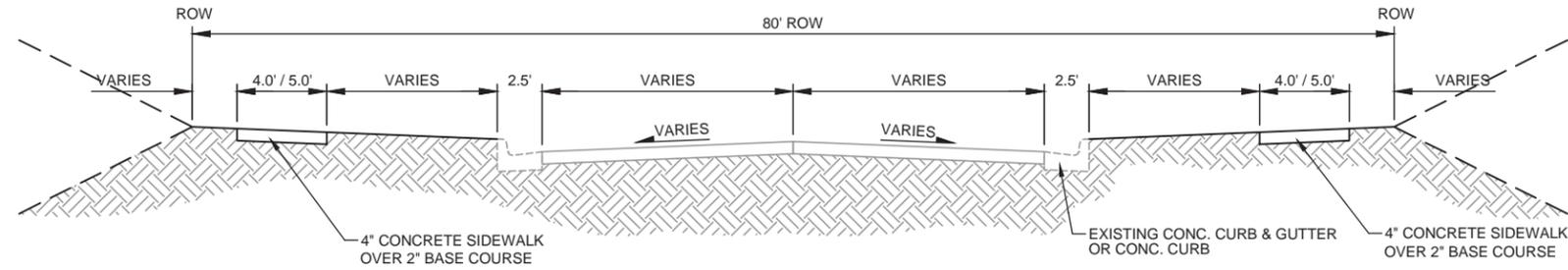
<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	682.183	Course:	N 83° 31' 43.7426" E



# TYPICAL SECTIONS

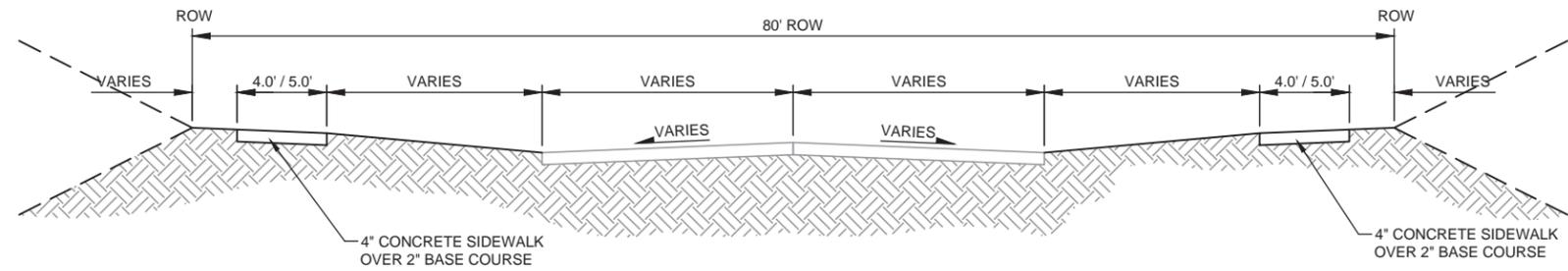
FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	16	41



TYPICAL SECTION - AREAS WITH EXISTING CURB OR CURB AND GUTTER

SCALE: 1" = 10'



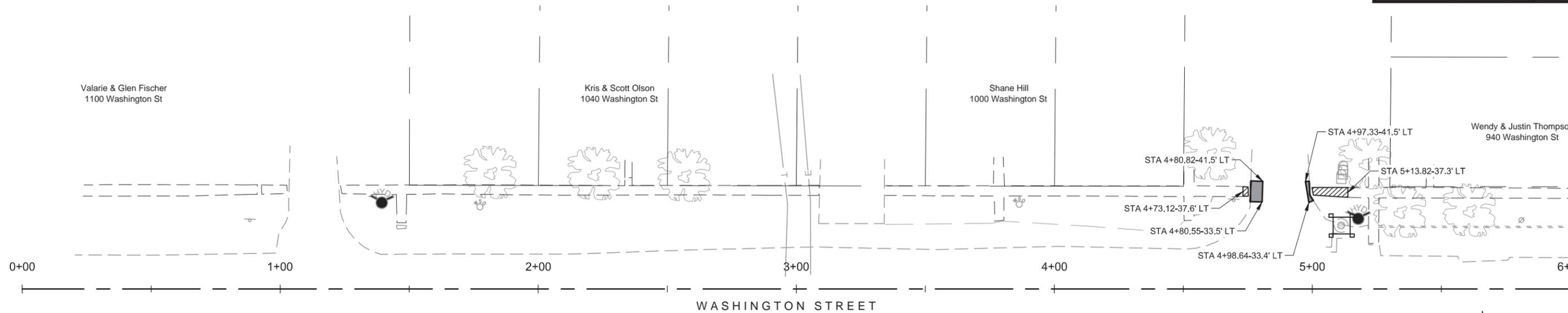
TYPICAL SECTION - AREAS WITHOUT EXISTING CURB AND GUTTER

SCALE: 1" = 10'



# WASHINGTON STREET - REMOVALS FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	17	41



REMOVE ASPHALT PAVEMENT

REMOVE PCC SIDEWALK

TEMP. EASEMENT

SEDIMENT CONTROL AT INLET

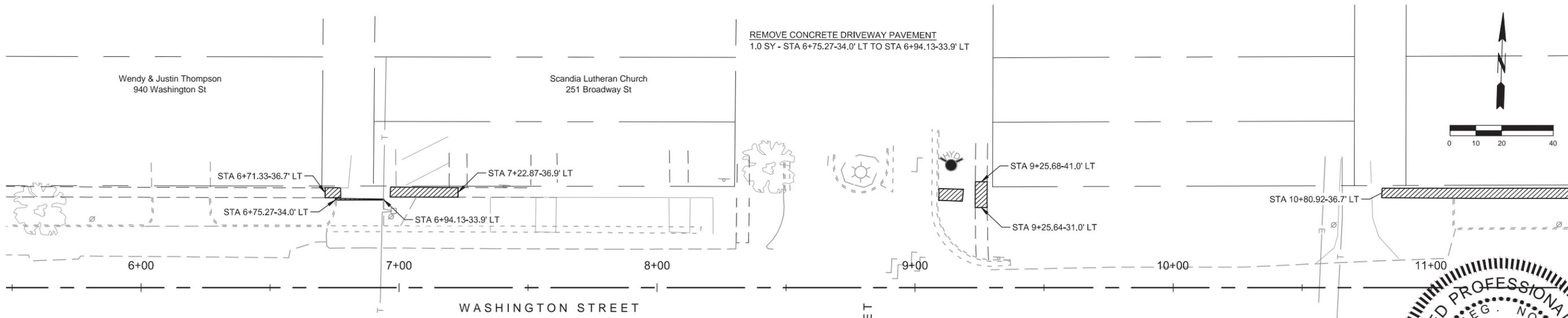
IDAHO STREET

DAKOTA STREET

REMOVE CONCRETE SIDEWALK  
0.8 SY - STA 4+73.12 TO STA 4+75.16 - LT  
5.1 SY - STA 4+99.90 TO STA 5+13.82 - LT

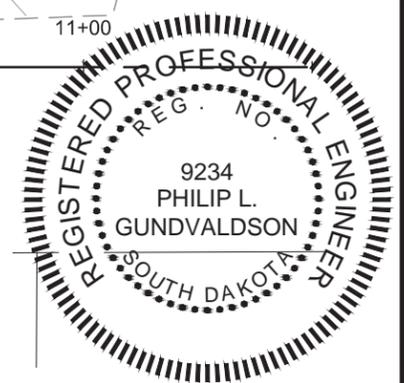
REMOVE ASPHALT CONCRETE PAVEMENT  
4.1 SY - STA 4+75.92-33.7' LT TO STA 4+80.82-41.5' LT  
1.1 SY - STA 4+97.33-41.5' LT TO STA 5+00.43-34.1' LT

REMOVE CONCRETE DRIVEWAY PAVEMENT  
1.0 SY - STA 6+75.27-34.0' LT TO STA 6+94.13-33.9' LT



REMOVE CONCRETE SIDEWALK  
2.6 SY - STA 6+71.33 TO STA 6+77.40 - LT  
11.1 SY - STA 6+96.63 TO STA 7+22.87 - LT  
4.7 SY - STA 9+09.24 TO STA 9+18.78 - LT  
5.1 SY - STA 9+23.39 TO STA 9+27.94 - LT  
66.5 SY - STA 10+80.92 TO STA 12+44.04 - LT

BROADWAY STREET

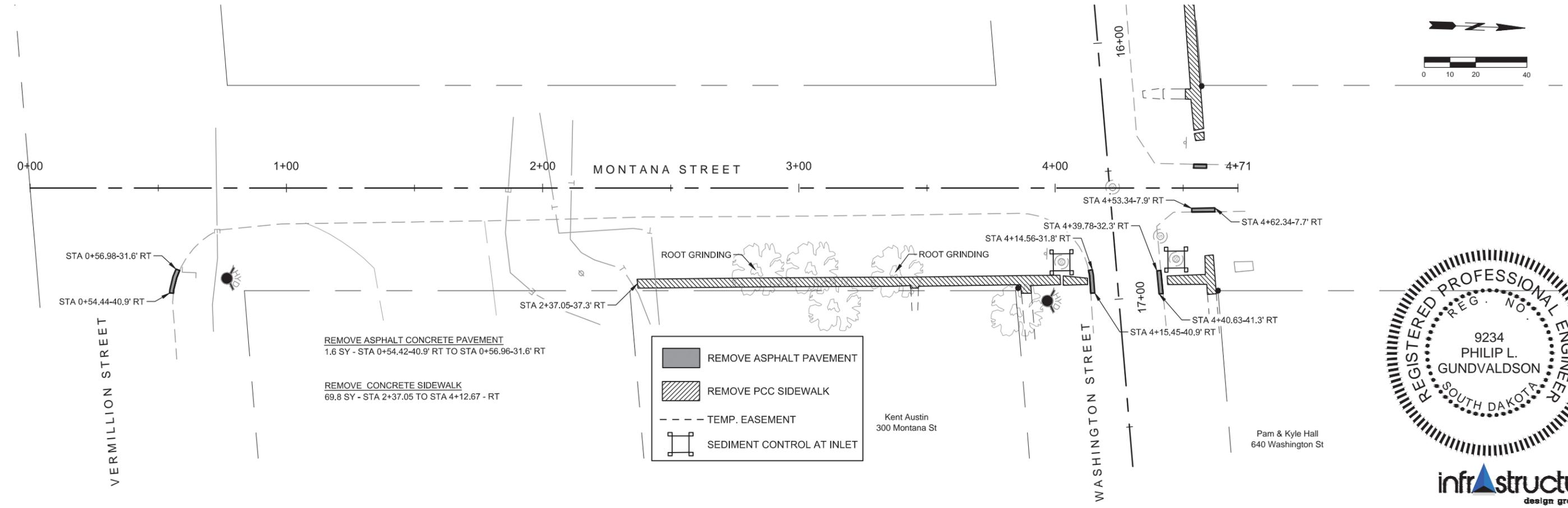
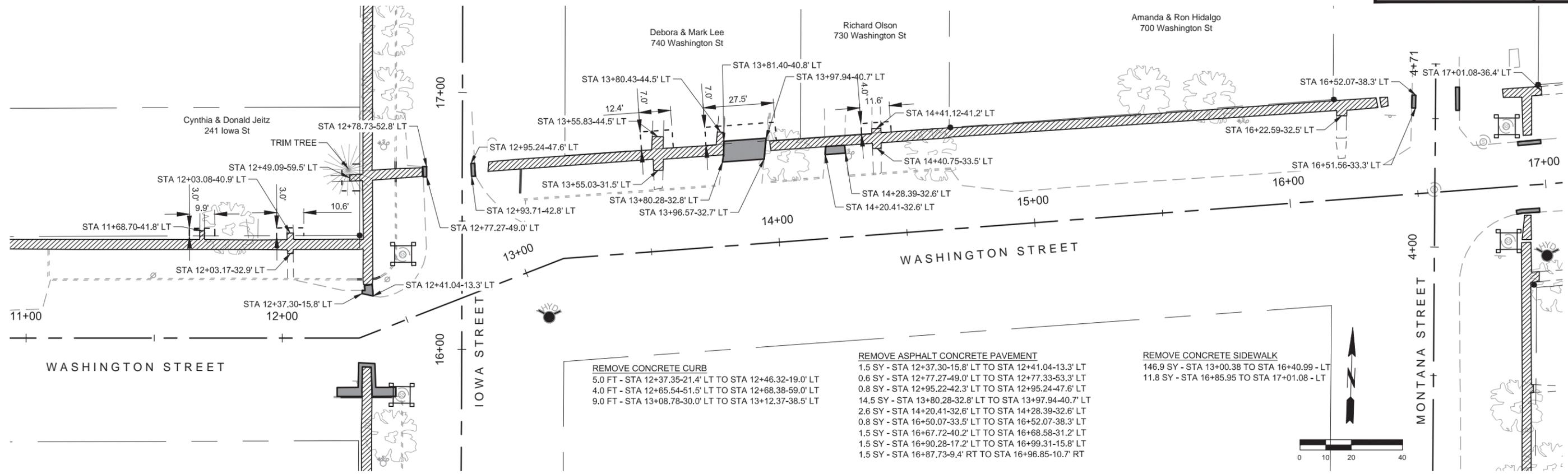


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# WASHINGTON ST. & MONTANA ST. - REMOVALS

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	18	41



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# IOWA STREET - REMOVALS

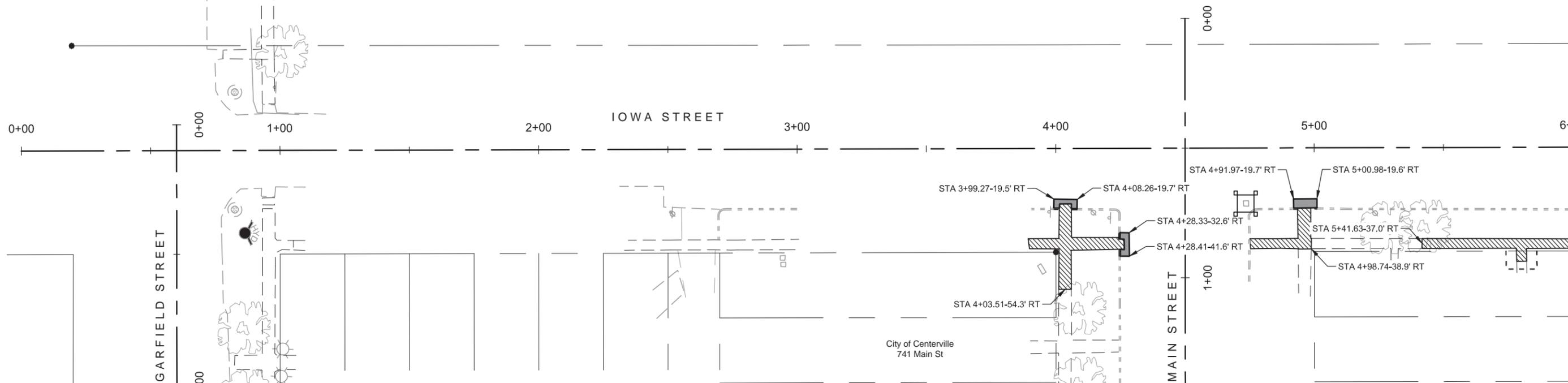
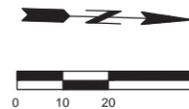
FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	19	41

**REMOVE CONCRETE SIDEWALK**  
 33.1 SY - STA 3+89.26 TO STA 4+26.42 - RT  
 16.6 SY - STA 4+75.03 TO STA 4+98.74 - RT  
 47.3 SY - STA 5+41.63 TO STA 6+54.00 - RT

**REMOVE ASPHALT CONCRETE PAVEMENT**  
 2.6 SY - STA 3+99.27-19.5' RT TO STA 4+08.26-19.7' RT  
 2.8 SY - STA 4+28.33-32.6' RT TO STA 4+28.41-41.6' RT  
 3.5 SY - STA 4+91.97-19.7' RT TO STA 5+00.98-19.6' RT

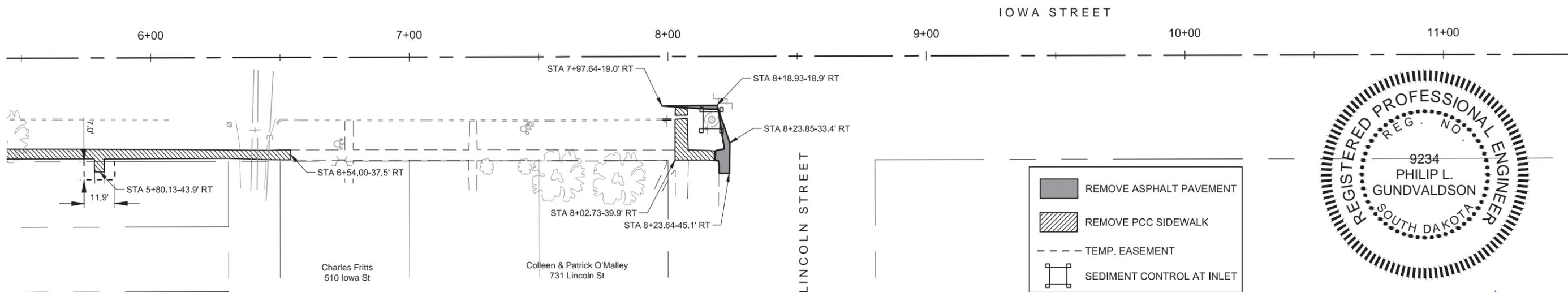
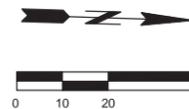
**REMOVE CONCRETE CURB**  
 4.0 FT - STA 3+99.16-23.0' RT TO STA 4+08.20-23.2' RT  
 5.0 FT - STA 4+24.82-32.5' RT TO STA 4+24.90-41.6' RT  
 3.0 FT - STA 4+92.00-23.2' RT TO STA 5+01.01-23.1' RT



**REMOVE ASPHALT CONCRETE PAVEMENT**  
 9.1 SY - STA 7+97.64-19.0' RT TO STA 8+23.85-33.4' RT

**REMOVE CONCRETE CURB**  
 4.0 FT - STA 7+97.73-24.6' RT TO STA 8+01.25-24.5' RT

**REMOVE CONCRETE SIDEWALK**  
 12.9 SY - STA 8+02.73 TO STA 8+17.81 - RT



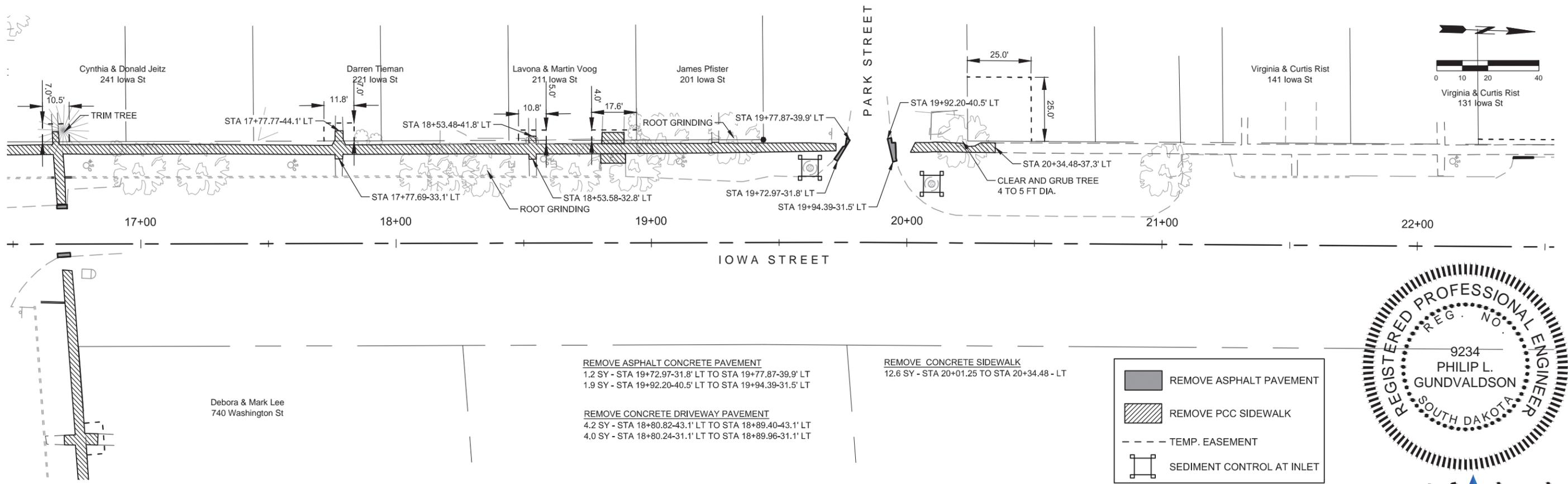
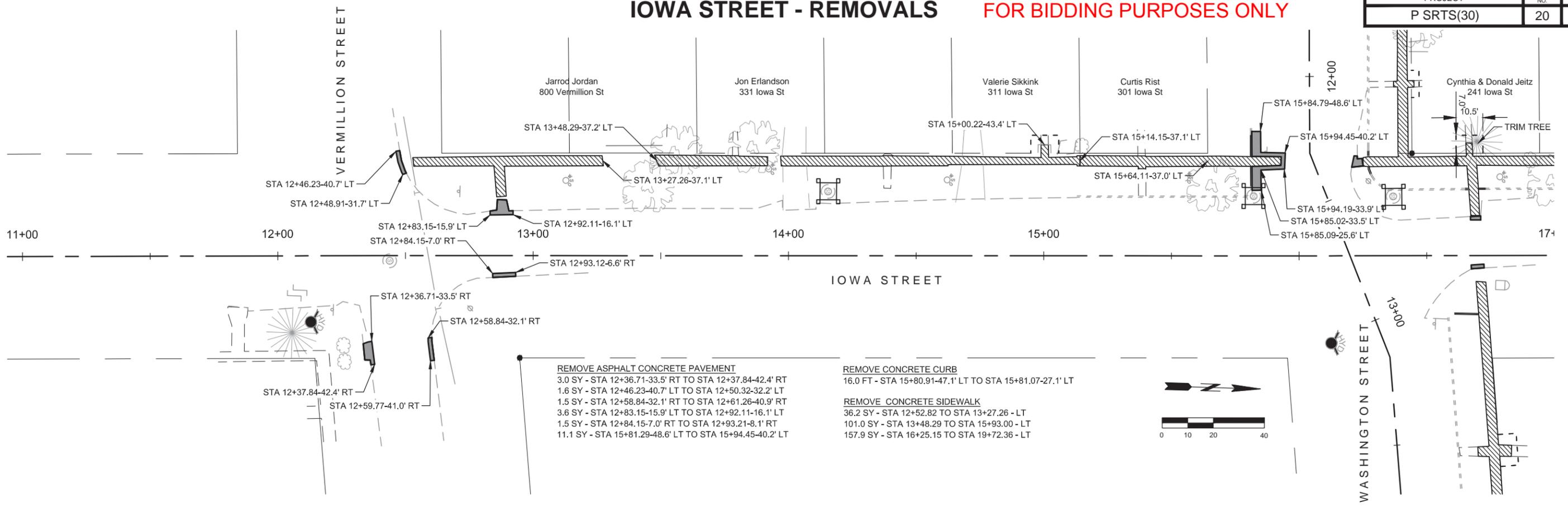
	REMOVE ASPHALT PAVEMENT
	REMOVE PCC SIDEWALK
	TEMP. EASEMENT
	SEDIMENT CONTROL AT INLET



# IOWA STREET - REMOVALS

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	20	41



- REMOVE ASPHALT PAVEMENT
- REMOVE PCC SIDEWALK
- TEMP. EASEMENT
- SEDIMENT CONTROL AT INLET

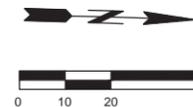
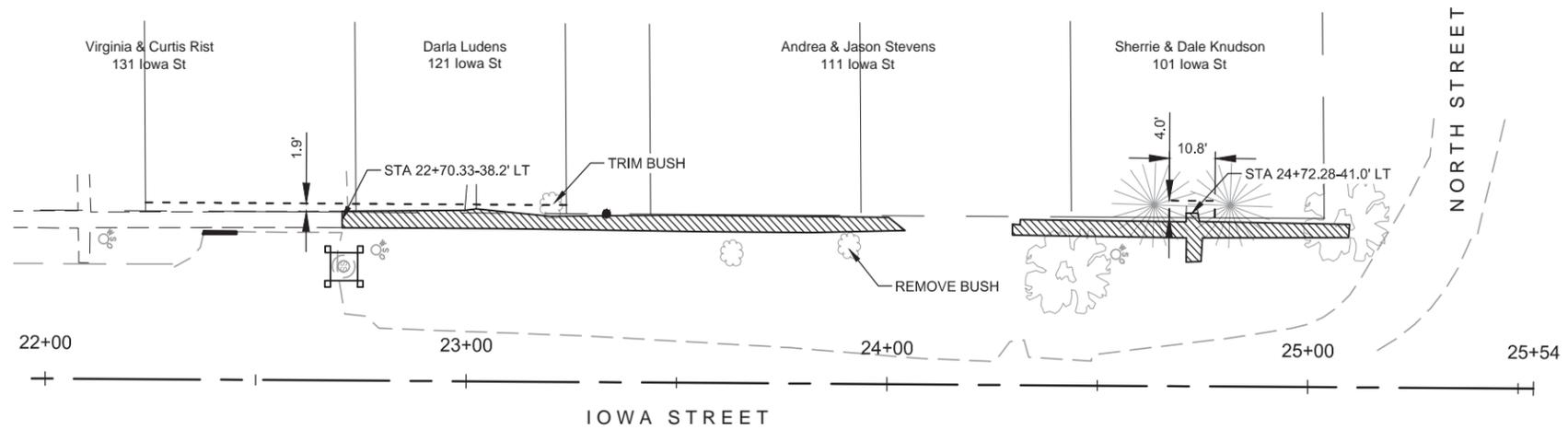


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PLOT DATE: 4/1/2019 7:42 PM Phil Gundvaldson

# IOWA STREET - REMOVALS

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	21	41



REMOVE ASPHALT CONCRETE PAVEMENT  
0.5 SY - STA 22+37.25-34.5' LT TO STA 22+45.25-34.6' LT

REMOVE CONCRETE SIDEWALK  
55.3 SY - STA 22+70.33 TO STA 24+04.09 - LT  
34.9 SY - STA 24+29.49 TO STA 25+09.47 - LT

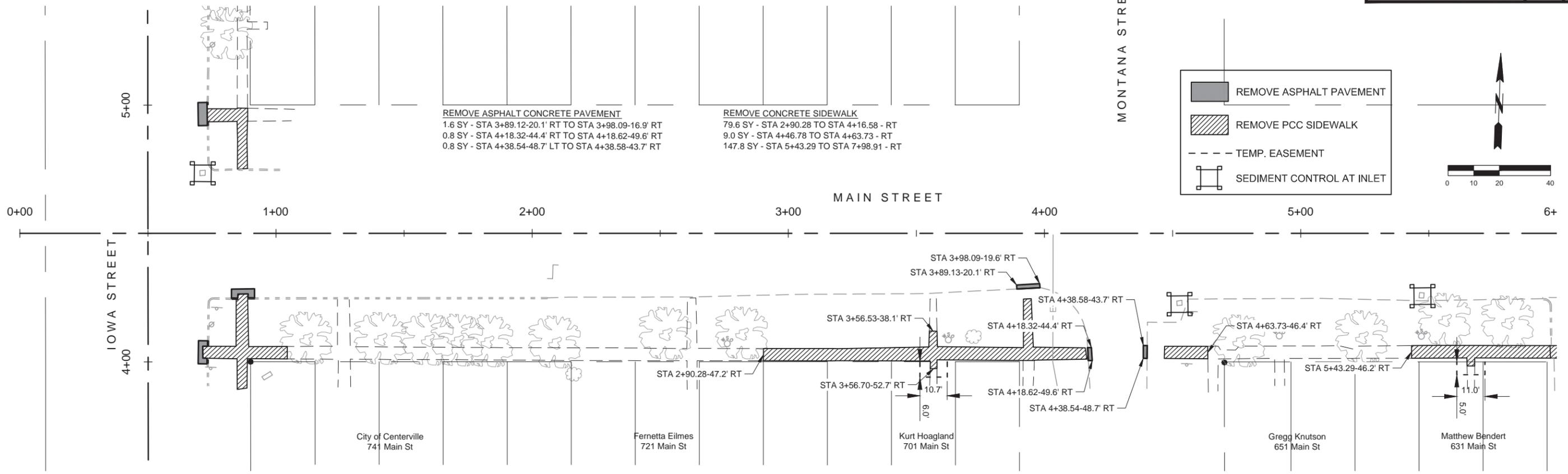
	REMOVE ASPHALT PAVEMENT
	REMOVE PCC SIDEWALK
	TEMP. EASEMENT
	SEDIMENT CONTROL AT INLET



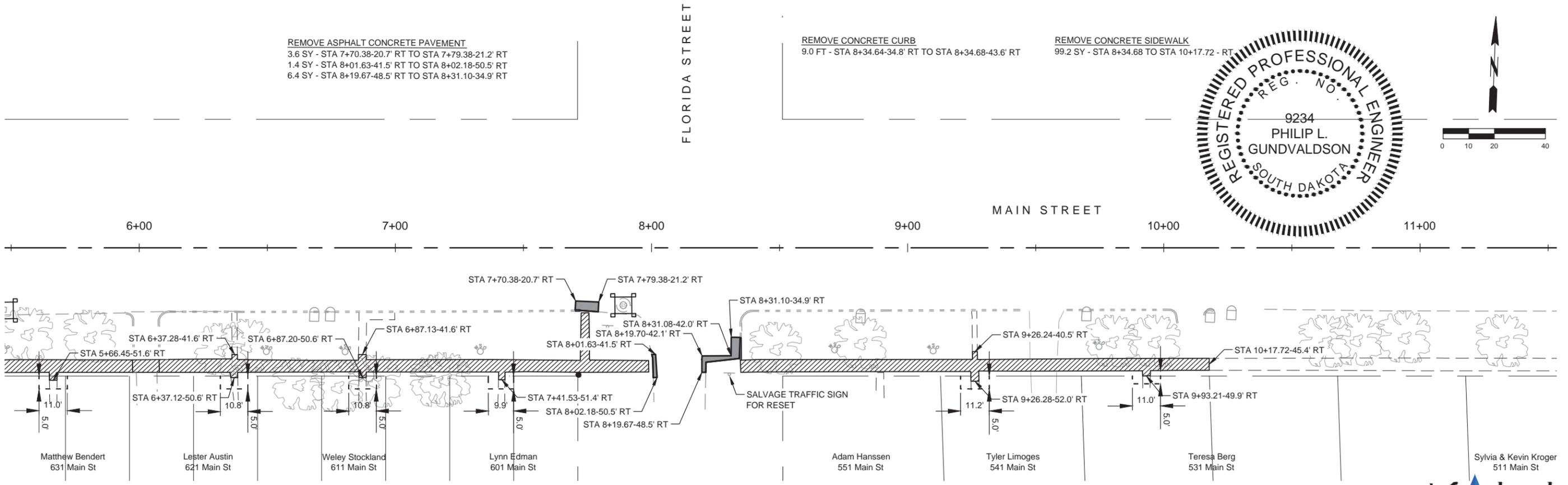
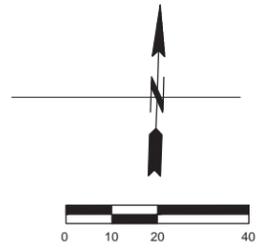
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FOR BIDDING PURPOSES ONLY

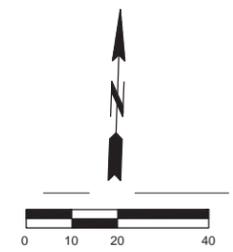
PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	22	41



REMOVE ASPHALT PAVEMENT  
 REMOVE PCC SIDEWALK  
 TEMP. EASEMENT  
 SEDIMENT CONTROL AT INLET



REGISTERED PROFESSIONAL ENGINEER  
 REG. NO. 9234  
 PHILIP L. GUNDBALDSON  
 SOUTH DAKOTA



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 PLOT DATE: 4/20/14 2:28 PM Phil Gundbaldson

# MAIN STREET - REMOVALS

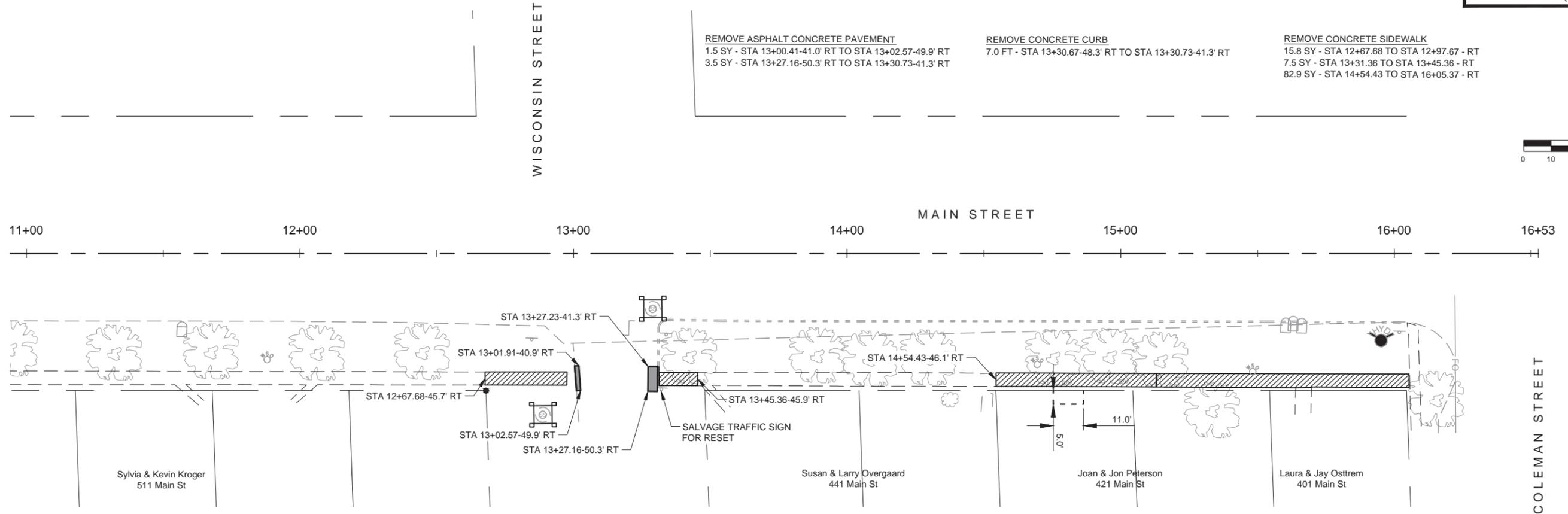
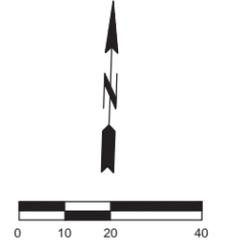
FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	23	41

**REMOVE ASPHALT CONCRETE PAVEMENT**  
 1.5 SY - STA 13+00.41-41.0' RT TO STA 13+02.57-49.9' RT  
 3.5 SY - STA 13+27.16-50.3' RT TO STA 13+30.73-41.3' RT

**REMOVE CONCRETE CURB**  
 7.0 FT - STA 13+30.67-48.3' RT TO STA 13+30.73-41.3' RT

**REMOVE CONCRETE SIDEWALK**  
 15.8 SY - STA 12+67.68 TO STA 12+97.67 - RT  
 7.5 SY - STA 13+31.36 TO STA 13+45.36 - RT  
 82.9 SY - STA 14+54.43 TO STA 16+05.37 - RT

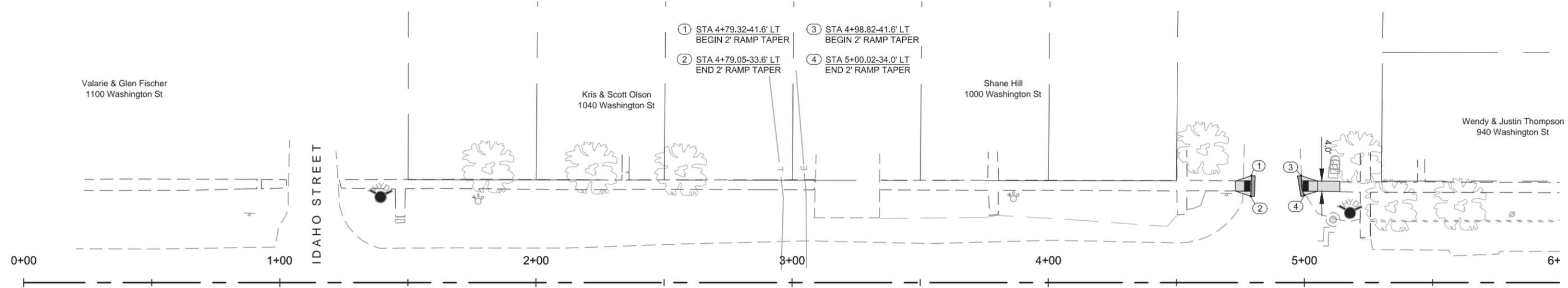


	REMOVE ASPHALT PAVEMENT
	REMOVE PCC SIDEWALK
	TEMP. EASEMENT
	SEDIMENT CONTROL AT INLET



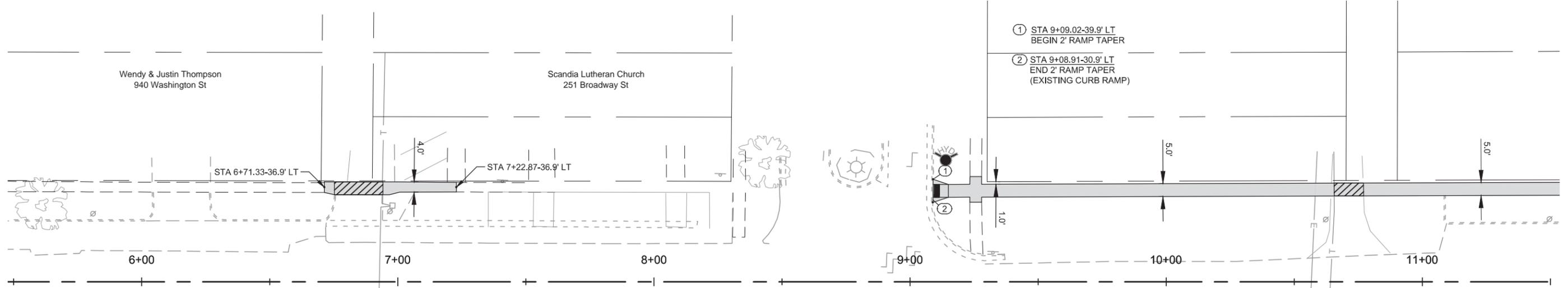
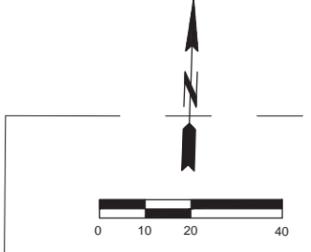
# WASHINGTON STREET - SIDEWALK PLAN FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	24	41



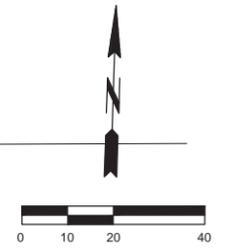
	4" SIDEWALK
	6" SIDEWALK
	ASPHALT
→	FLOW ARROW
	TEMP. EASEMENT

**4" CONCRETE SIDEWALK**  
 36.4 SF - STA 4+73.12 TO STA 4+79.32 - LT  
 70.1 SF - STA 4+98.82 TO STA 5+13.82 - LT



**4" CONCRETE SIDEWALK**  
 18.2 SF - STA 6+71.33 TO STA 6+75.27 - LT  
 116.3 SF - STA 6+94.20 TO STA 7+22.87 - LT  
 818.0 SF - STA 9+08.91 TO STA 10+65.57 - LT  
 783.7 SF - STA 10+77.06 TO STA 12+65.43 - LT

**6" CONCRETE SIDEWALK**  
 94.7 SF - STA 6+75.27 TO STA 6+94.20 - LT  
 57.5 SF - STA 10+65.57 TO STA 10+77.06 - LT

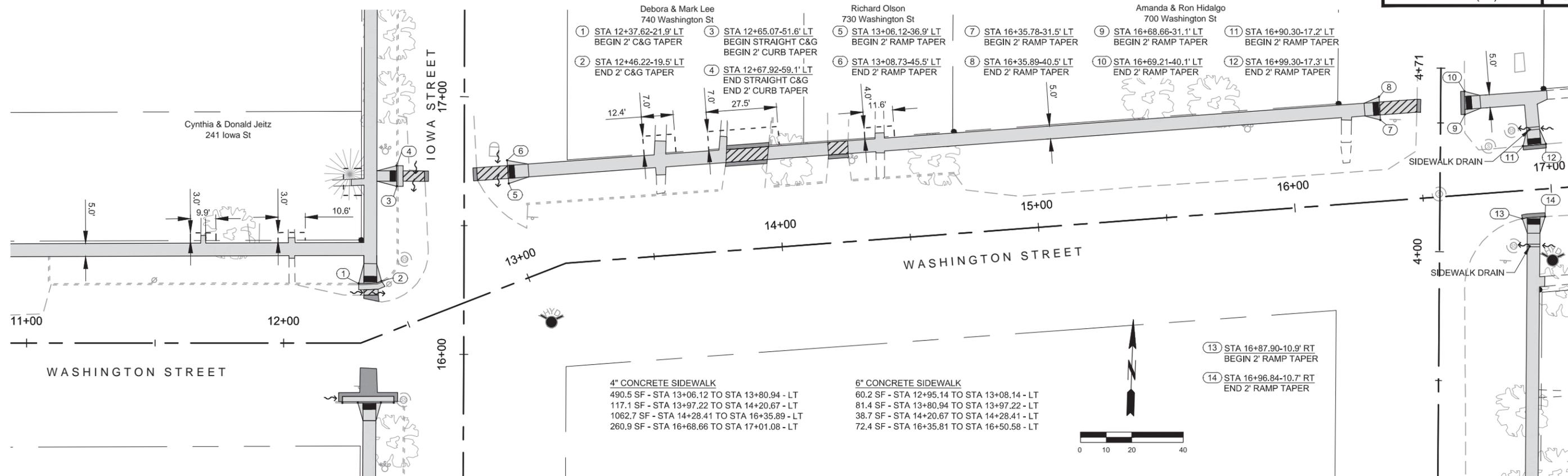


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# WASHINGTON & MONTANA ST. - SIDEWALK PLAN

FOR BIDDING PURPOSES ONLY

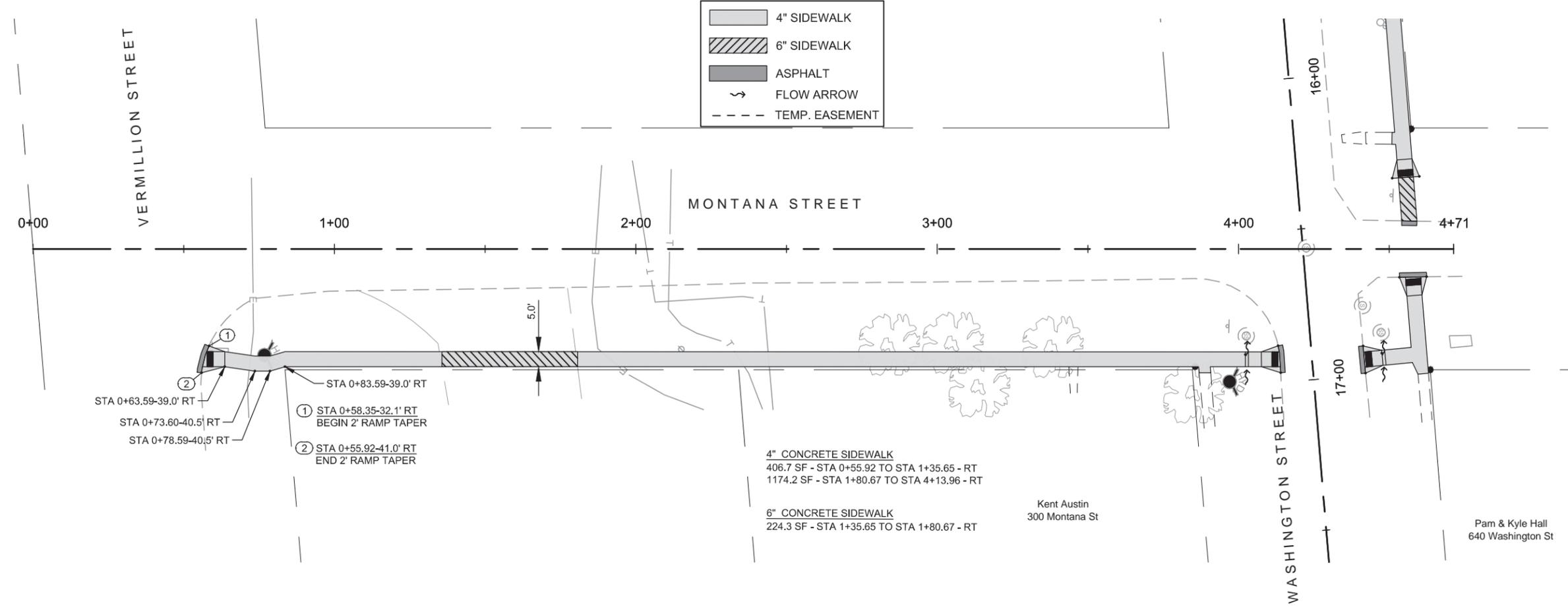
PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	25	41



**4" CONCRETE SIDEWALK**  
 490.5 SF - STA 13+06.12 TO STA 13+80.94 - LT  
 117.1 SF - STA 13+97.22 TO STA 14+20.67 - LT  
 1062.7 SF - STA 14+28.41 TO STA 16+35.89 - LT  
 260.9 SF - STA 16+68.66 TO STA 17+01.08 - LT

**6" CONCRETE SIDEWALK**  
 60.2 SF - STA 12+95.14 TO STA 13+08.14 - LT  
 81.4 SF - STA 13+80.94 TO STA 13+97.22 - LT  
 38.7 SF - STA 14+20.67 TO STA 14+28.41 - LT  
 72.4 SF - STA 16+35.81 TO STA 16+50.58 - LT

	4" SIDEWALK
	6" SIDEWALK
	ASPHALT
	FLOW ARROW
	TEMP. EASEMENT



**4" CONCRETE SIDEWALK**  
 406.7 SF - STA 0+55.92 TO STA 1+35.65 - RT  
 1174.2 SF - STA 1+80.67 TO STA 4+13.96 - RT

**6" CONCRETE SIDEWALK**  
 224.3 SF - STA 1+35.65 TO STA 1+80.67 - RT



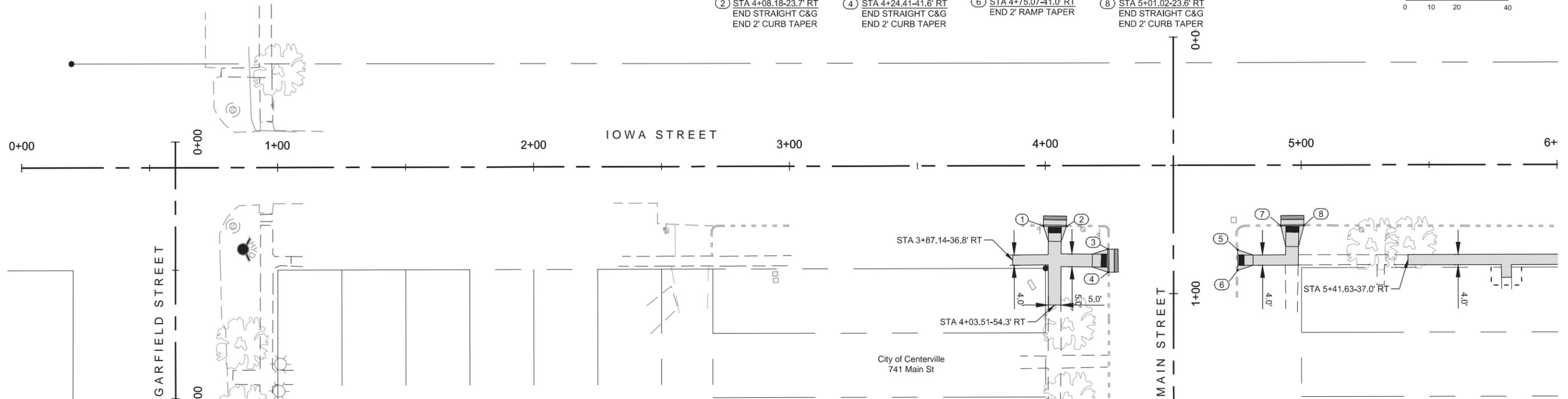
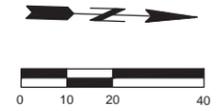
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# IOWA STREET - SIDEWALK PLAN FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	26	41

4" CONCRETE SIDEWALK  
 323.8 SF - STA 3+87.14 TO STA 4+24.41 - RT  
 179.5 SF - STA 4+75.10 TO STA 5+01.02 - RT  
 396.9 SF - STA 5+41.63 TO STA 6+34.37 - RT

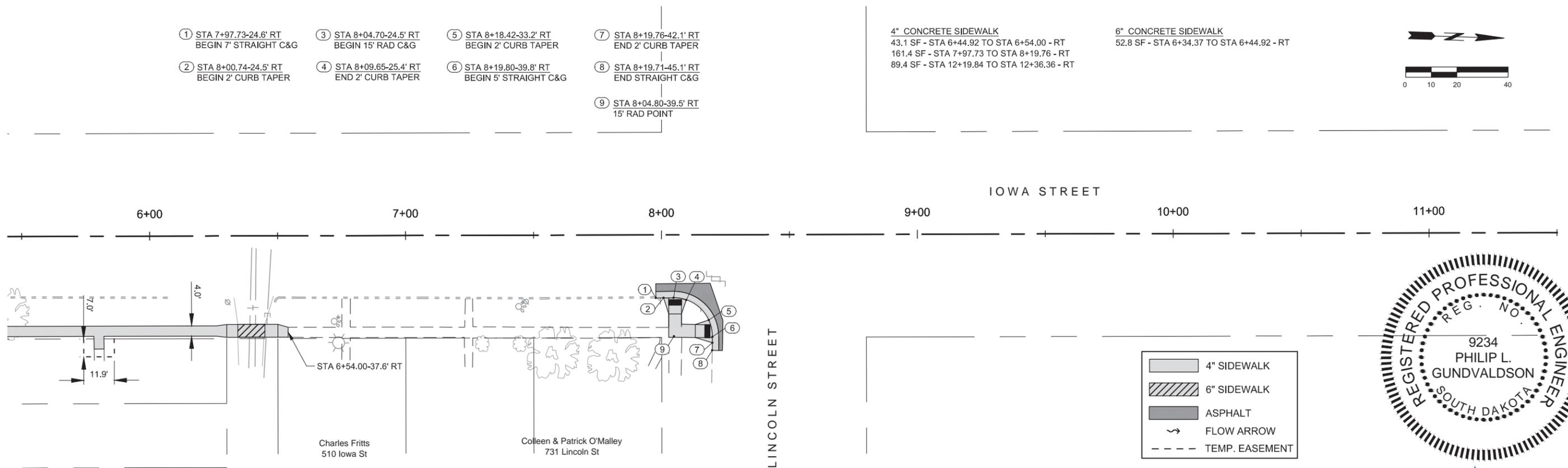
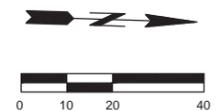
- ① STA 3+99.19-23.5' RT  
BEGIN STRAIGHT C&G  
BEGIN 2' CURB TAPER
- ② STA 4+08.18-23.7' RT  
END STRAIGHT C&G  
END 2' CURB TAPER
- ③ STA 4+24.33-32.6' RT  
BEGIN STRAIGHT C&G  
BEGIN 2' CURB TAPER
- ④ STA 4+24.41-41.6' RT  
END STRAIGHT C&G  
END 2' CURB TAPER
- ⑤ STA 4+75.10-33.0' RT  
BEGIN 2' RAMP TAPER
- ⑥ STA 4+75.07-41.0' RT  
END 2' RAMP TAPER
- ⑦ STA 4+92.02-23.7' RT  
BEGIN STRAIGHT C&G  
BEGIN 2' CURB TAPER
- ⑧ STA 5+01.02-23.6' RT  
END STRAIGHT C&G  
END 2' CURB TAPER



- ① STA 7+97.73-24.6' RT  
BEGIN 7' STRAIGHT C&G
- ② STA 8+00.74-24.5' RT  
BEGIN 2' CURB TAPER
- ③ STA 8+04.70-24.5' RT  
BEGIN 15' RAD C&G
- ④ STA 8+09.65-25.4' RT  
END 2' CURB TAPER
- ⑤ STA 8+18.42-33.2' RT  
BEGIN 2' CURB TAPER
- ⑥ STA 8+19.80-39.8' RT  
BEGIN 5' STRAIGHT C&G
- ⑦ STA 8+19.76-42.1' RT  
END 2' CURB TAPER
- ⑧ STA 8+19.71-45.1' RT  
END STRAIGHT C&G
- ⑨ STA 8+04.80-39.5' RT  
15' RAD POINT

4" CONCRETE SIDEWALK  
 43.1 SF - STA 6+44.92 TO STA 6+54.00 - RT  
 161.4 SF - STA 7+97.73 TO STA 8+19.76 - RT  
 89.4 SF - STA 12+19.84 TO STA 12+36.36 - RT

6" CONCRETE SIDEWALK  
 52.8 SF - STA 6+34.37 TO STA 6+44.92 - RT

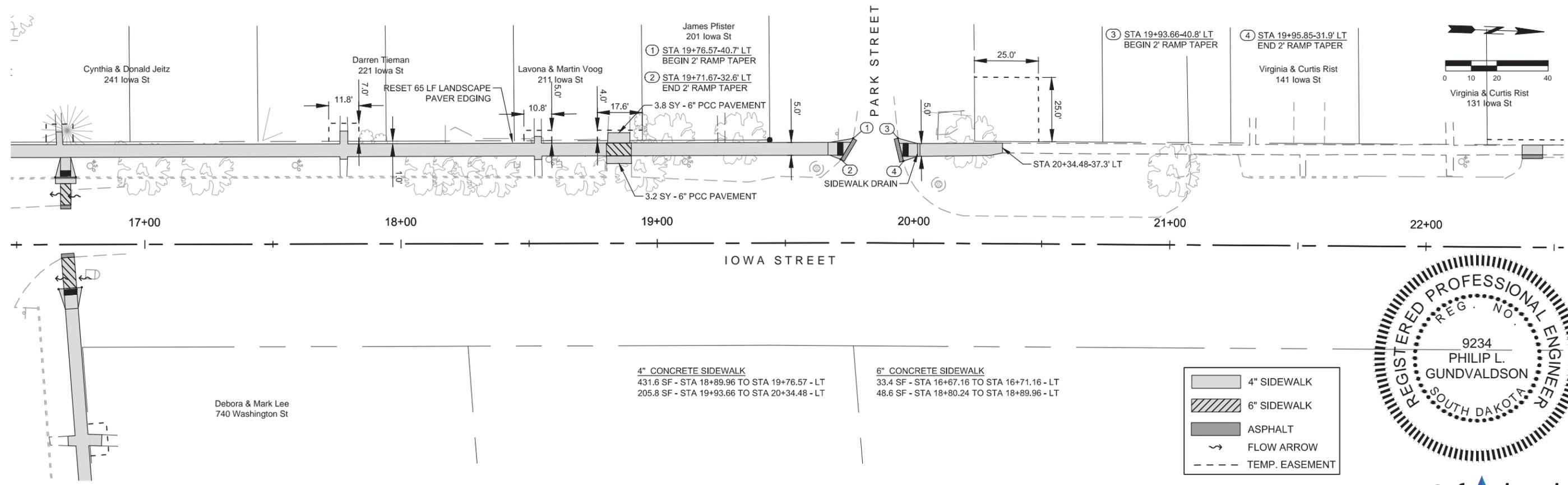
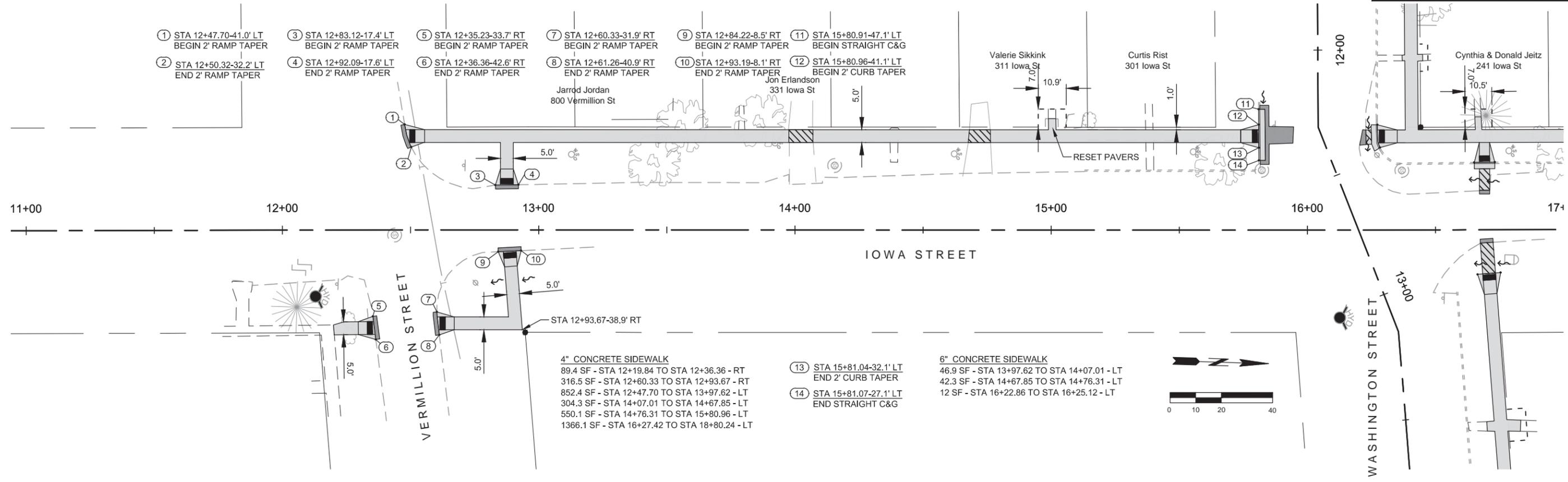


	4" SIDEWALK
	6" SIDEWALK
	ASPHALT
	FLOW ARROW
	TEMP. EASEMENT



# IOWA STREET - SIDEWALK PLAN FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	27	41



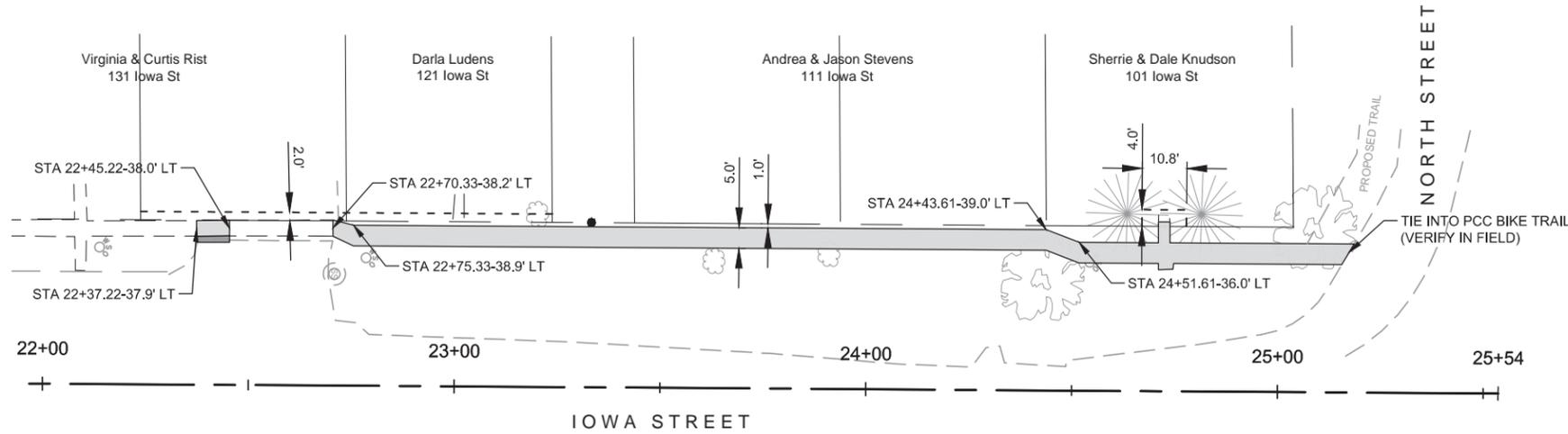
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	6" SIDEWALK
	ASPHALT
→	FLOW ARROW
	TEMP. EASEMENT



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# IOWA STREET - SIDEWALK PLAN FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	28	41



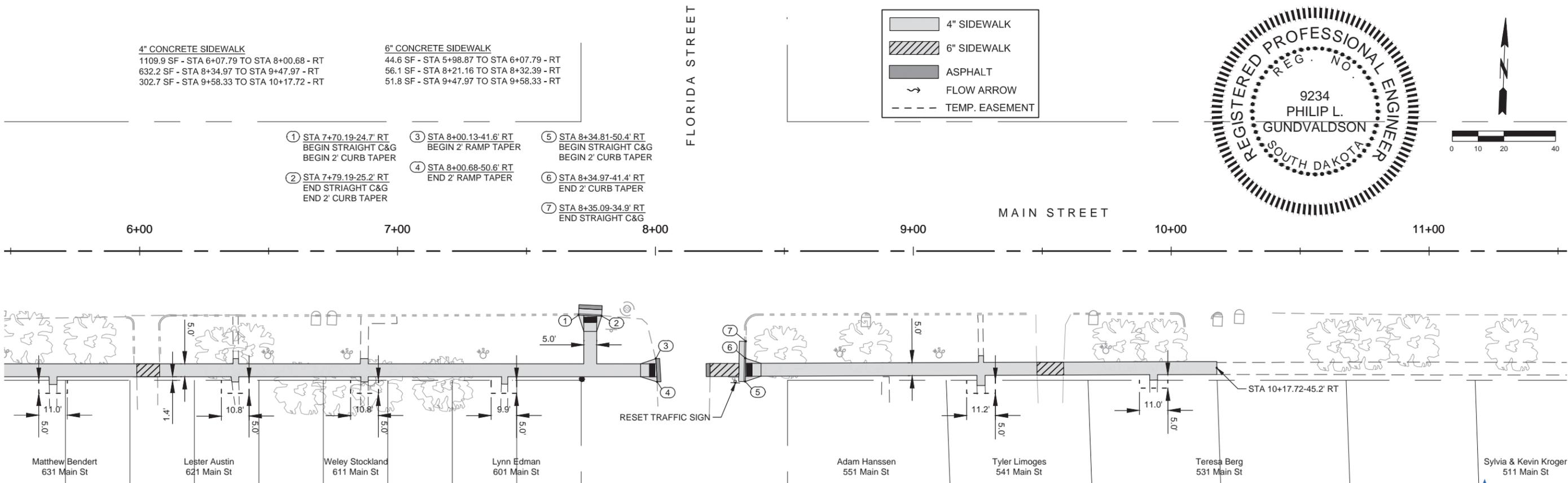
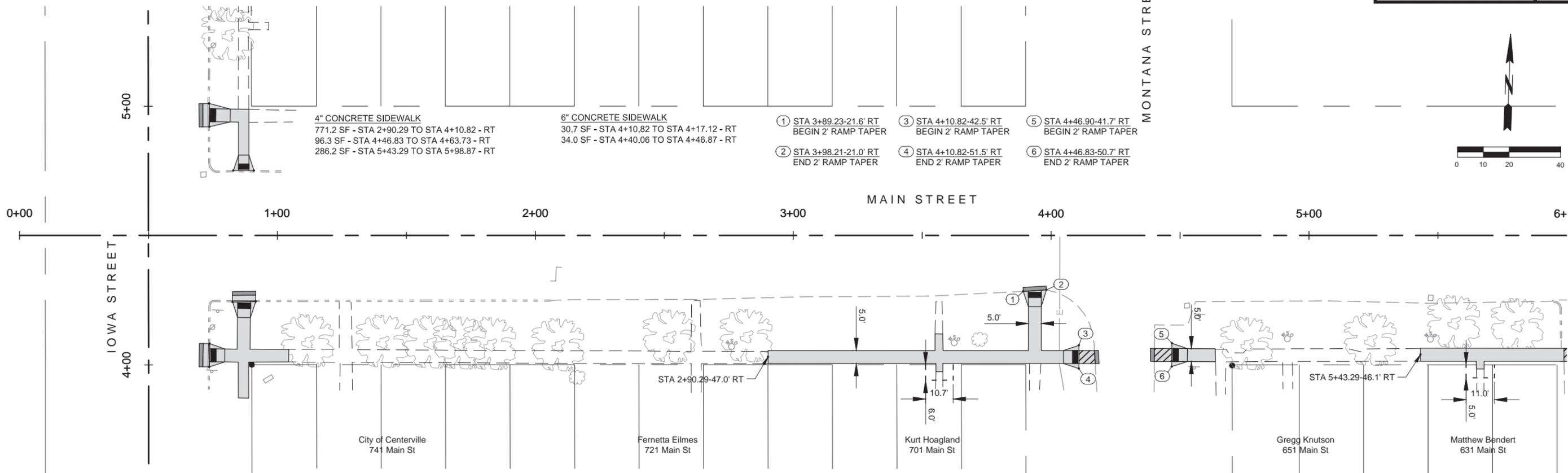
4" CONCRETE SIDEWALK  
 30.3 SF - STA 22+37.22 TO STA 22+45.22 - LT  
 1250.0 SF - STA 22+70.33 TO STA 25+18.41 - LT

	4" SIDEWALK
	6" SIDEWALK
	ASPHALT
→	FLOW ARROW
	TEMP. EASEMENT



# MAIN STREET - SIDEWALK PLAN FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	29	41



	4" SIDEWALK
	6" SIDEWALK
	ASPHALT
→	FLOW ARROW
	TEMP. EASEMENT

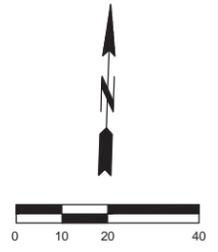


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# MAIN STREET - SIDEWALK PLAN FOR BIDDING PURPOSES ONLY

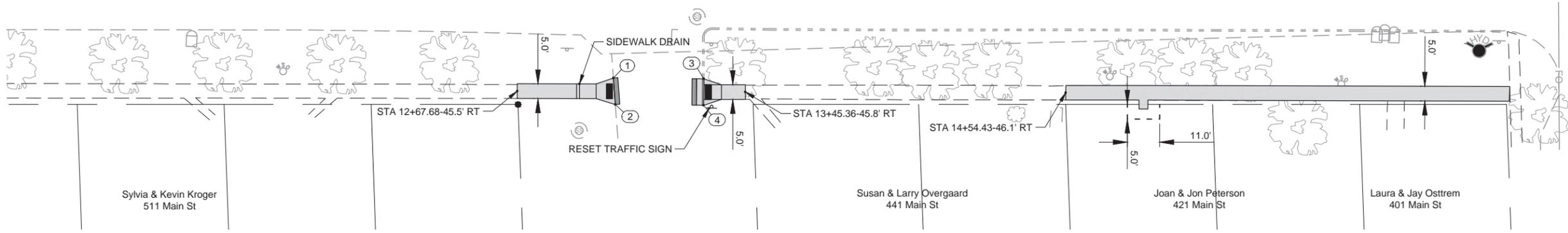
PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	30	41

4" SIDEWALK  
 6" SIDEWALK  
 ASPHALT  
 FLOW ARROW  
 TEMP. EASEMENT



**4" CONCRETE SIDEWALK**  
 177.6 SF - STA 12+67.68 TO STA 13+01.08 - RT  
 105.3 SF - STA 13+31.16 TO STA 13+45.36 - RT  
 49.0 SF - STA 14+54.43 TO STA 14+82.41 - RT  
 462.1 SF - STA 15+13.08 TO STA 16+05.50 - RT

- ① STA 13+00.41-41.1' RT  
BEGIN 2' RAMP TAPER
- ② STA 13+01.08-50.0' RT  
END 2' RAMP TAPER
- ③ STA 13+31.23-41.3' RT  
BEGIN STRAIGHT C&G  
BEGIN 2' CURB TAPER
- ④ STA 13+31.16-50.3' RT  
END STRAIGHT C&G  
END 2' CURB TAPER

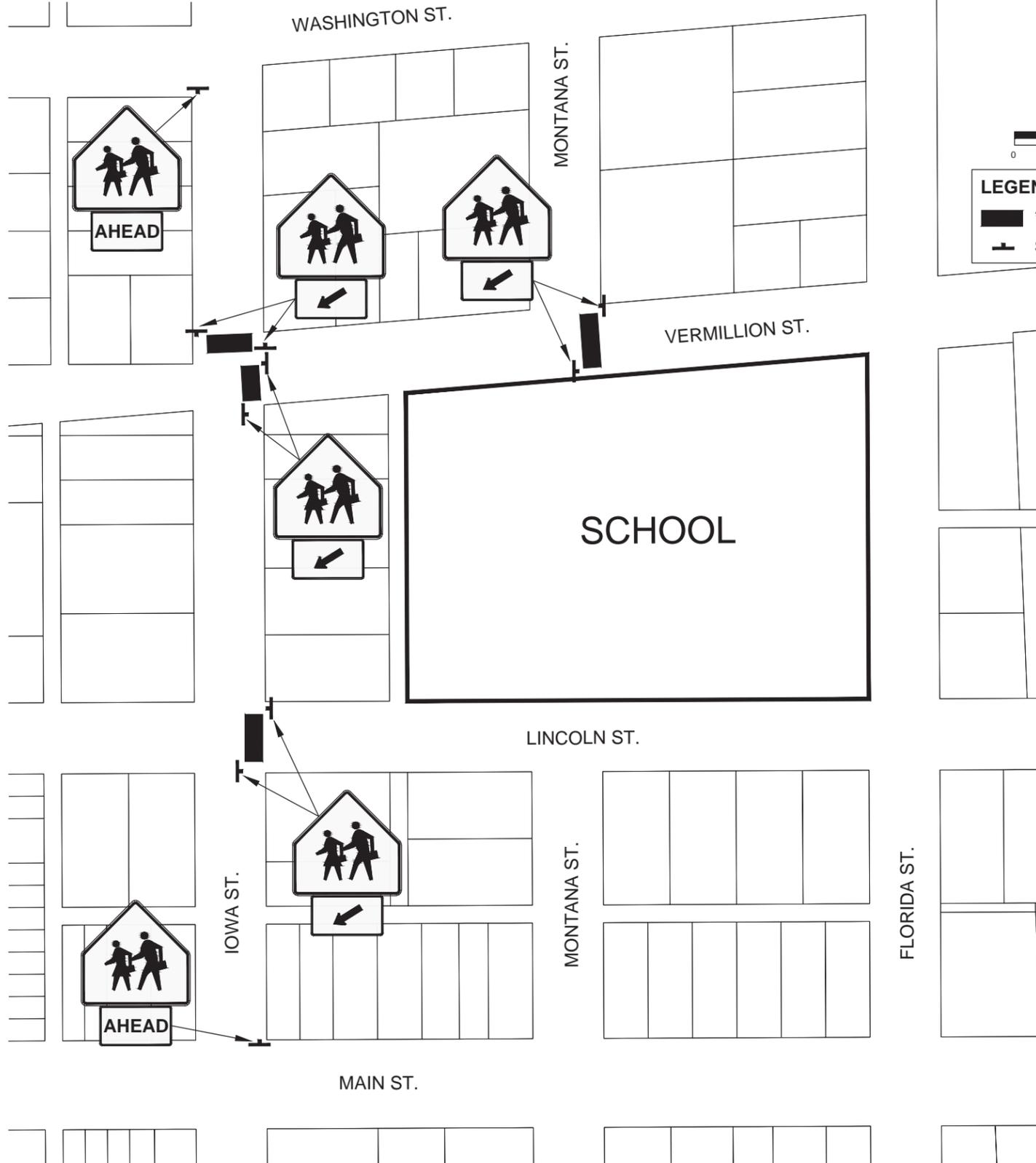


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 PLOT DATE: 4/20/14 2:28 PM Phil Gundvaldson

# PAVEMENT MARKING & SIGNING PLAN FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	31	41

QTY	STATION/ STREET	DESCRIPTION	SIGN CODE	SUPER/VERY HIGH INTENSITY TRAFFIC SIGN AREA (SQFT)	2" SQ TUBE POST (FT)
1	8+13.9-30.8' RT IOWA	36" x 36" SCHOOL ADVANCE WARNING	S1-1	6.8	12
		24" x 12" DIAGONAL ARROW	W16-7P	2	
1	8+53.0-41.0' RT IOWA	36" x 36" SCHOOL ADVANCE WARNING	S1-1	6.8	12
		24" x 12" DIAGONAL ARROW	W16-7P	2	
1	12+29.0-31.2' RT IOWA	36" x 36" SCHOOL ADVANCE WARNING	S1-1	6.8	12
		24" x 12" DIAGONAL ARROW	W16-7P	2	
1	12+65.5-43.7' RT IOWA	36" x 36" SCHOOL ADVANCE WARNING	S1-1	6.8	12
		24" x 12" DIAGONAL ARROW	W16-7P	2	
1	12+81.2-12.7' RT IOWA	36" x 36" SCHOOL ADVANCE WARNING	S1-1	6.8	12
		24" x 12" DIAGONAL ARROW	W16-7P	2	
1	12+95.1-21.7' LT IOWA	36" x 36" SCHOOL ADVANCE WARNING	S1-1	6.8	12
		24" x 12" DIAGONAL ARROW	W16-7P	2	
1	0+59.7-44.1' RT MONTANA	36" x 36" SCHOOL ADVANCE WARNING	S1-1	6.8	12
		24" x 12" DIAGONAL ARROW	W16-7P	2	
1	0+20.8-24.6' RT MONTANA	36" x 36" SCHOOL ADVANCE WARNING	S1-1	6.8	12
		24" x 12" DIAGONAL ARROW	W16-7P	2	
1	3+90.0-26.6' RT IOWA	36" x 36" SCHOOL ADVANCE WARNING	S1-1	6.8	12
		24" x 12" AHEAD	W16-9P	2	
1	15+75.0-26.5' LT IOWA	36" x 36" SCHOOL ADVANCE WARNING	S1-1	6.8	12
		24" x 12" AHEAD	W16-9P	2	
<b>TOTAL:</b>				<b>88</b>	<b>120</b>



**LEGEND:**

- \*6' WIDE 24" WHITE STRIPED CROSSING
- SIGN

\* SEE STANDARD PLATE 633.01

NOTE: ALL SIGNS SHALL BE ACCORDING TO THE MOST CURRENT VERSION OF THE MUTCD AND SHALL BE SIZED FOR A "CONVENTIONAL ROAD" AS PER THE MUTCD SIZE GUIDELINES. SCHOOL CROSSING ASSEMBLIES SHALL HAVE FLUORESCENT YELLOW-GREEN BACKGROUND COLOR.



# STANDARD PLATES AND DETAILS FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	32	41

## SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES

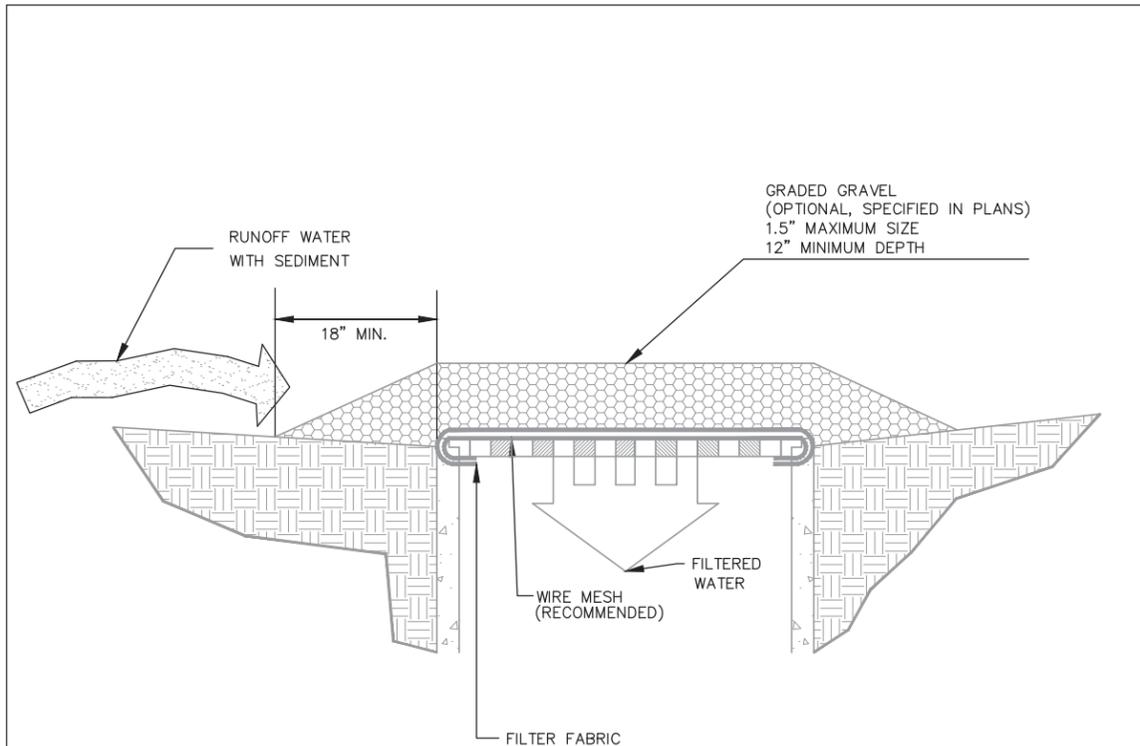


**DEFINITION:**

A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN DROP INLET OR CURB INLET.

**PURPOSES:**

TO REDUCE SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF DISTURBED AREAS.



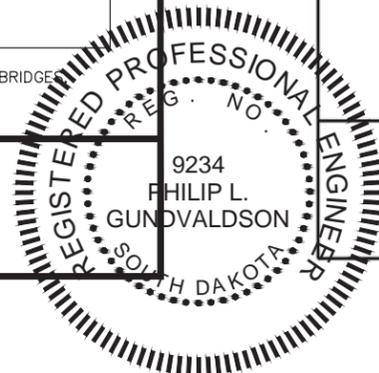
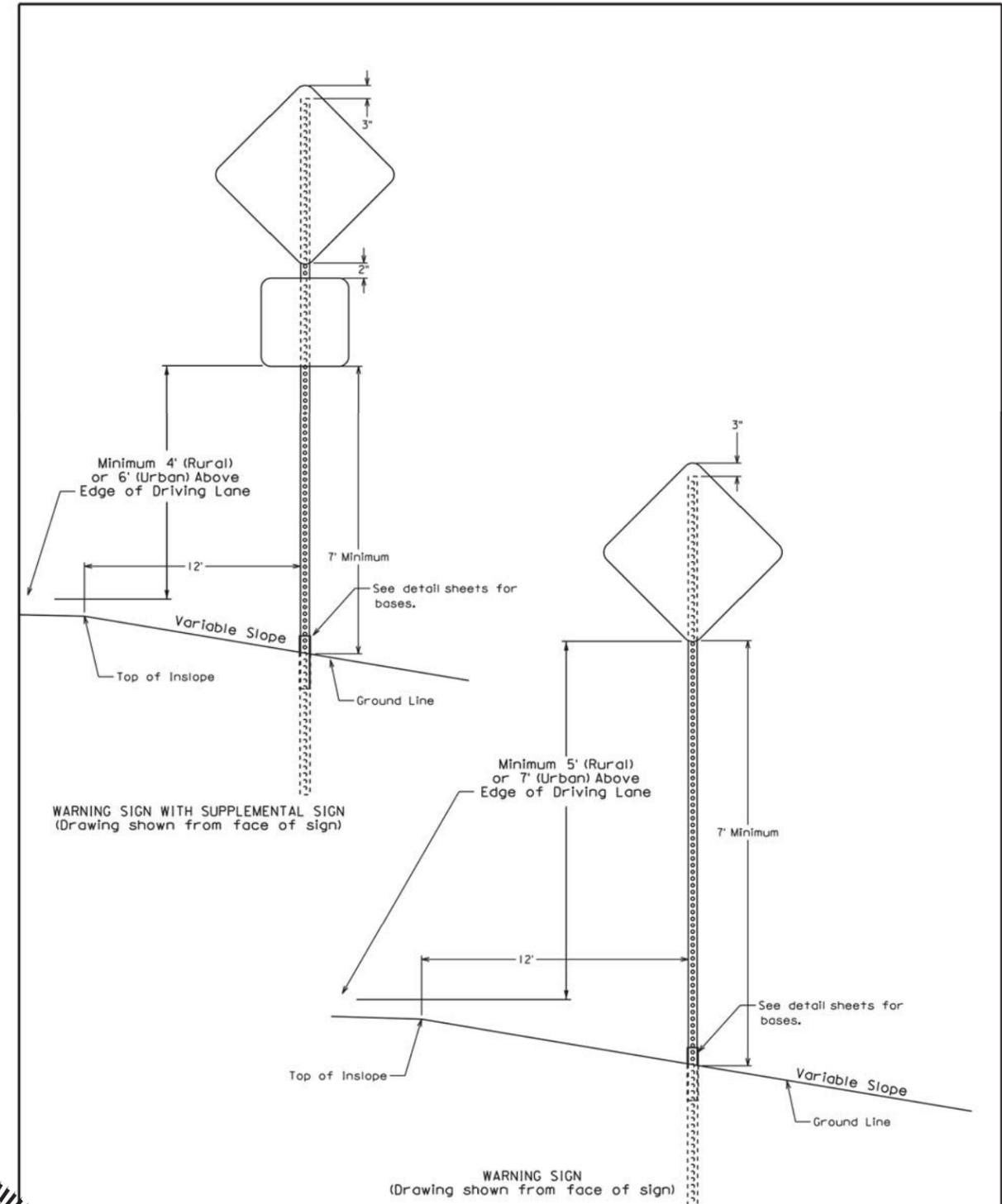
**SPECIFIC APPLICATION:**

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

NOTE: ALTERNATE DESIGN COULD UTILIZE GRAVEL-FILLED BAGS.

DRAINAGE AND FILTRATION FABRIC SHALL CONFORM TO SECTION 831 OF SDDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION AND BE FROM THE APPROVED PRODUCTS LIST.

GRAVEL/FILTER FABRIC  
DROP INLET SEDIMENT FILTER



S  
D  
D  
O  
T

30" WARNING SIGNS  
(Typical Sign Detail)

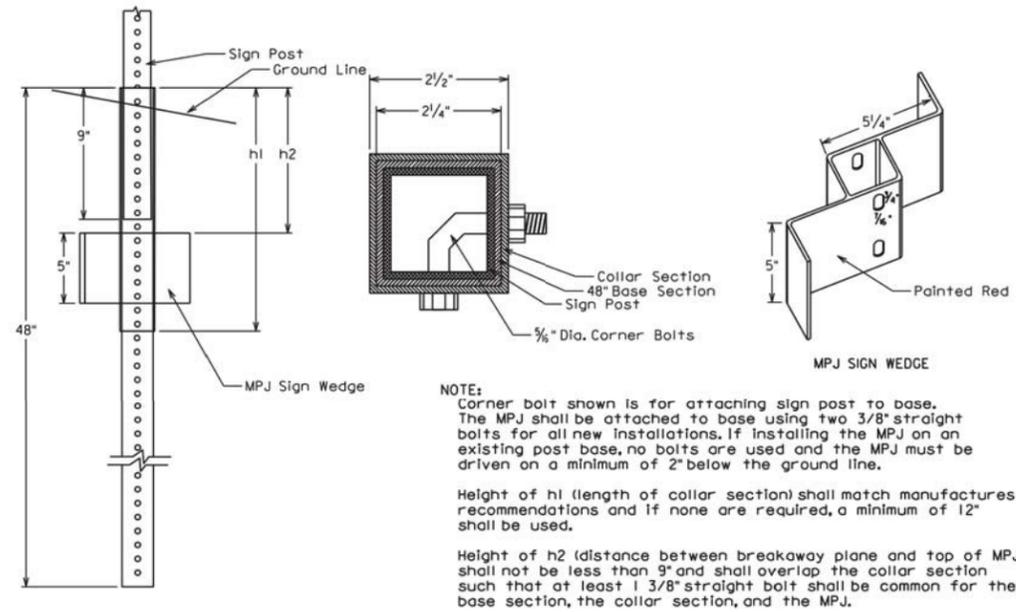
SPECIAL DETAIL  
LOI  
Sheet 1 of 1

July 24, 2012

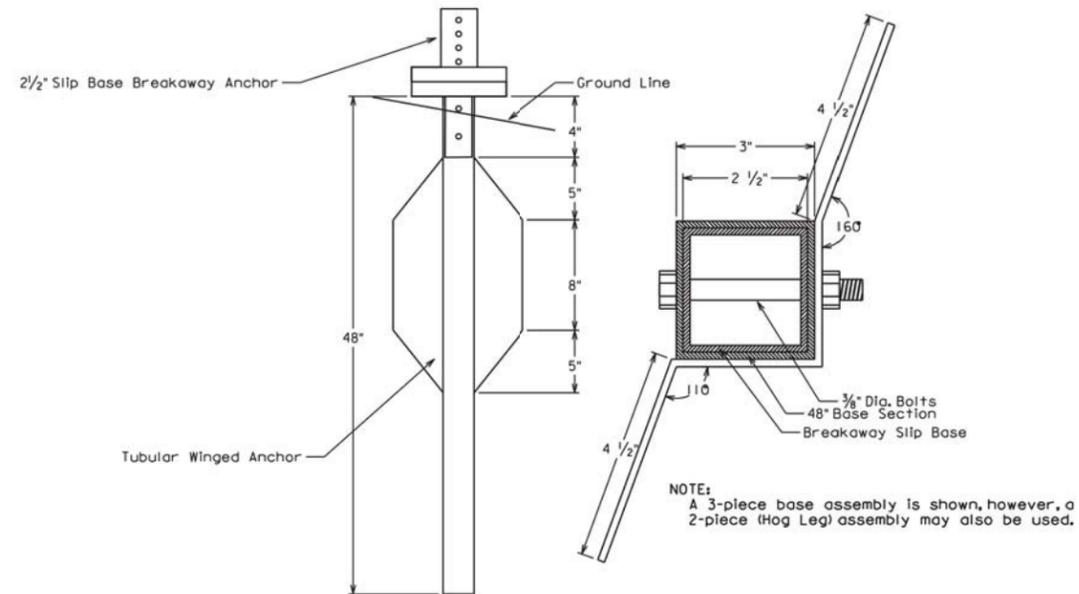
# STANDARD PLATES AND DETAILS FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	33	41

## SIGN BASE DETAILS FOR A 2" SIGN POST



## SIGN BASE DETAILS FOR A 2 1/2" SIGN POST



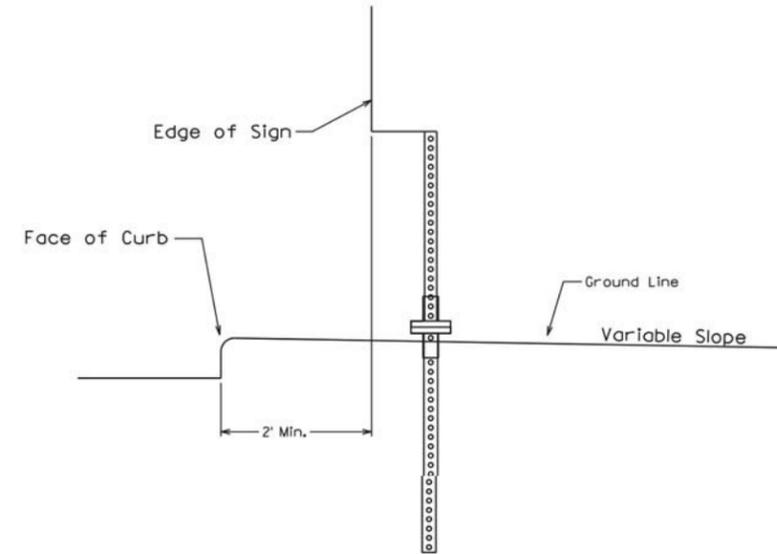
July 16, 2013

**S  
D  
D  
O  
T**

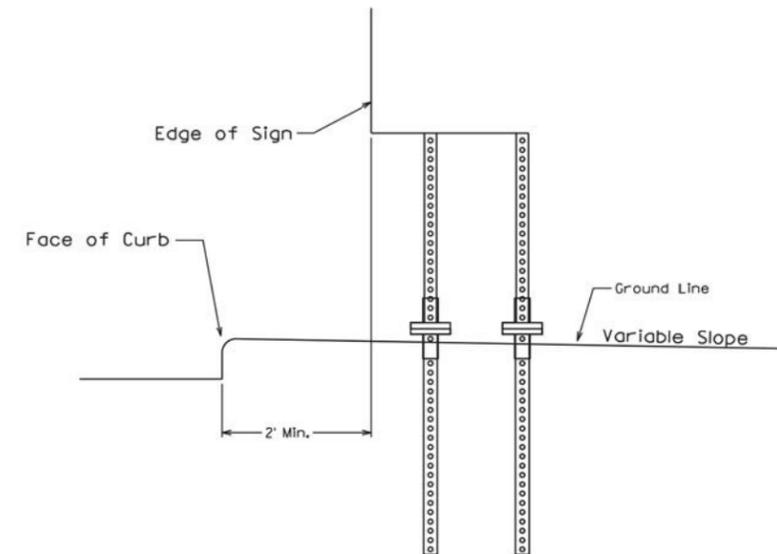
**TUBULAR POST BASE DETAILS**  
 (Typical Soil Installation)

**SPECIAL DETAIL**  
**L21**

Sheet 1 of 1



URBAN LOCATION WITH 1 POST  
 (Drawing shown from face of sign)



URBAN LOCATION WITH 2 POSTS  
 (Drawing shown from face of sign)

July 24, 2012

**S  
D  
D  
O  
T**

**LATERAL OFFSET**  
 (Typical Urban Sign Installations)

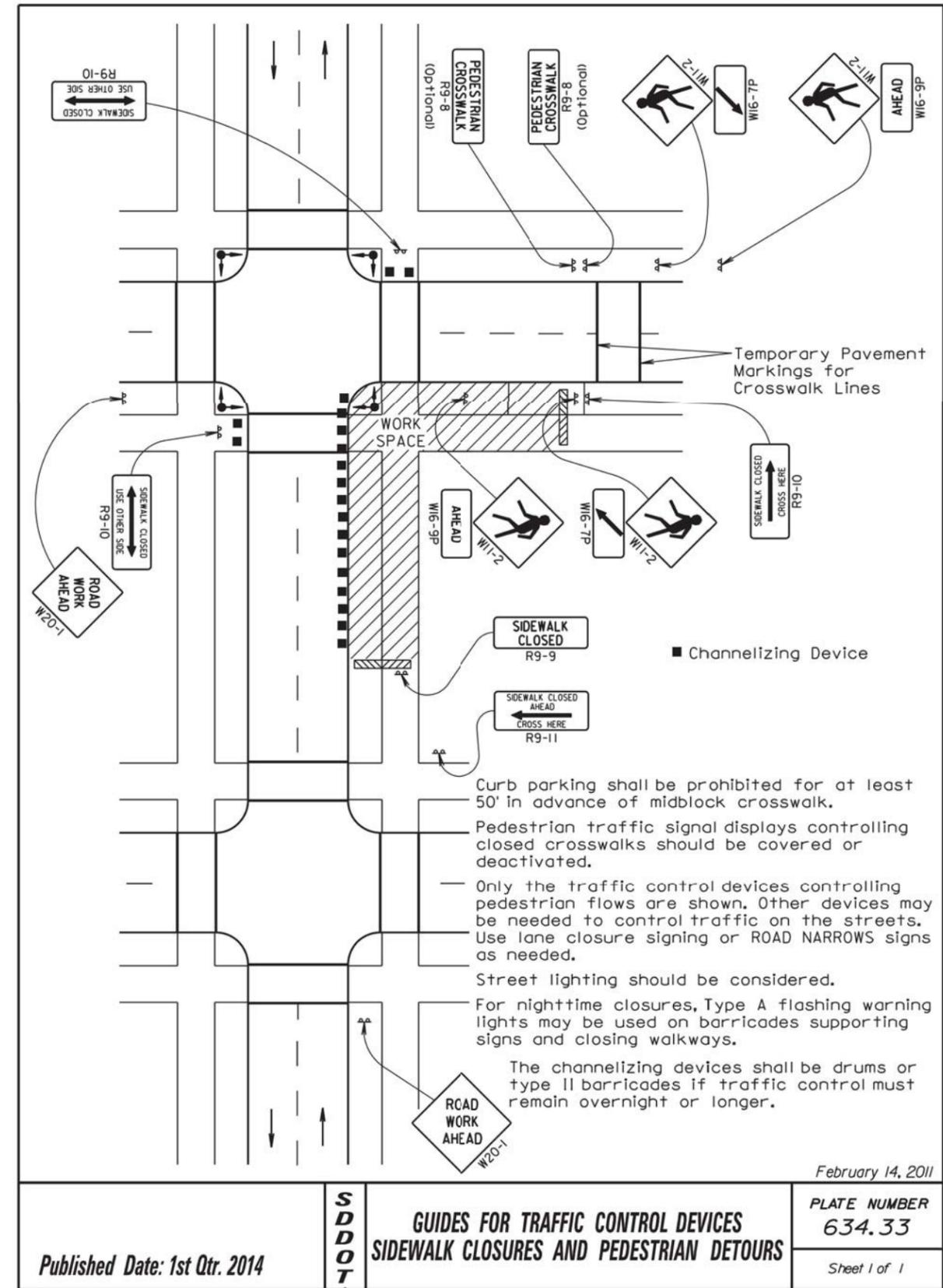
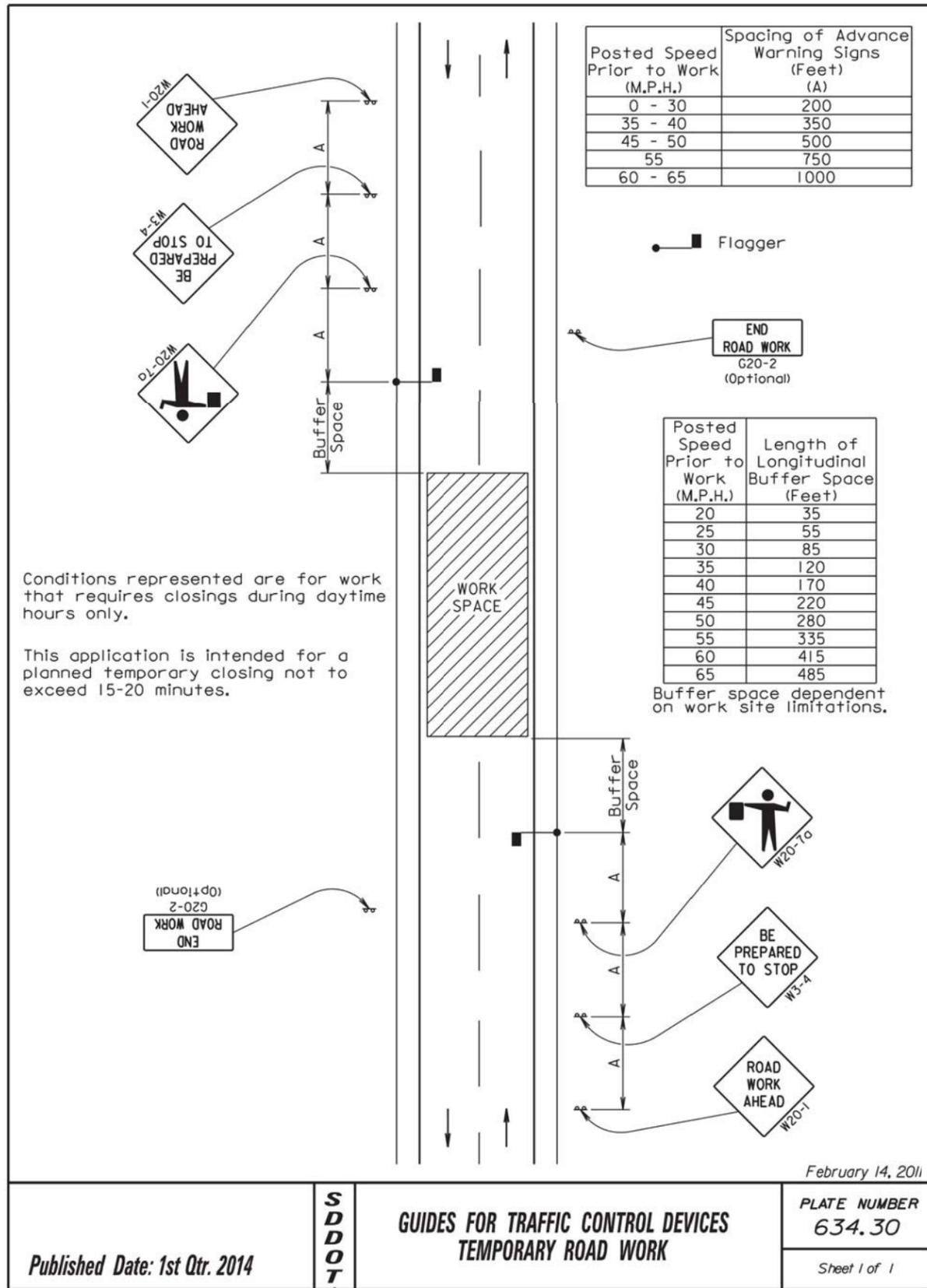
**SPECIAL DETAIL**  
**L24**

Sheet 1 of 1



# STANDARD PLATES AND DETAILS FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	35	41



# STANDARD PLATES AND DETAILS FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	36	41

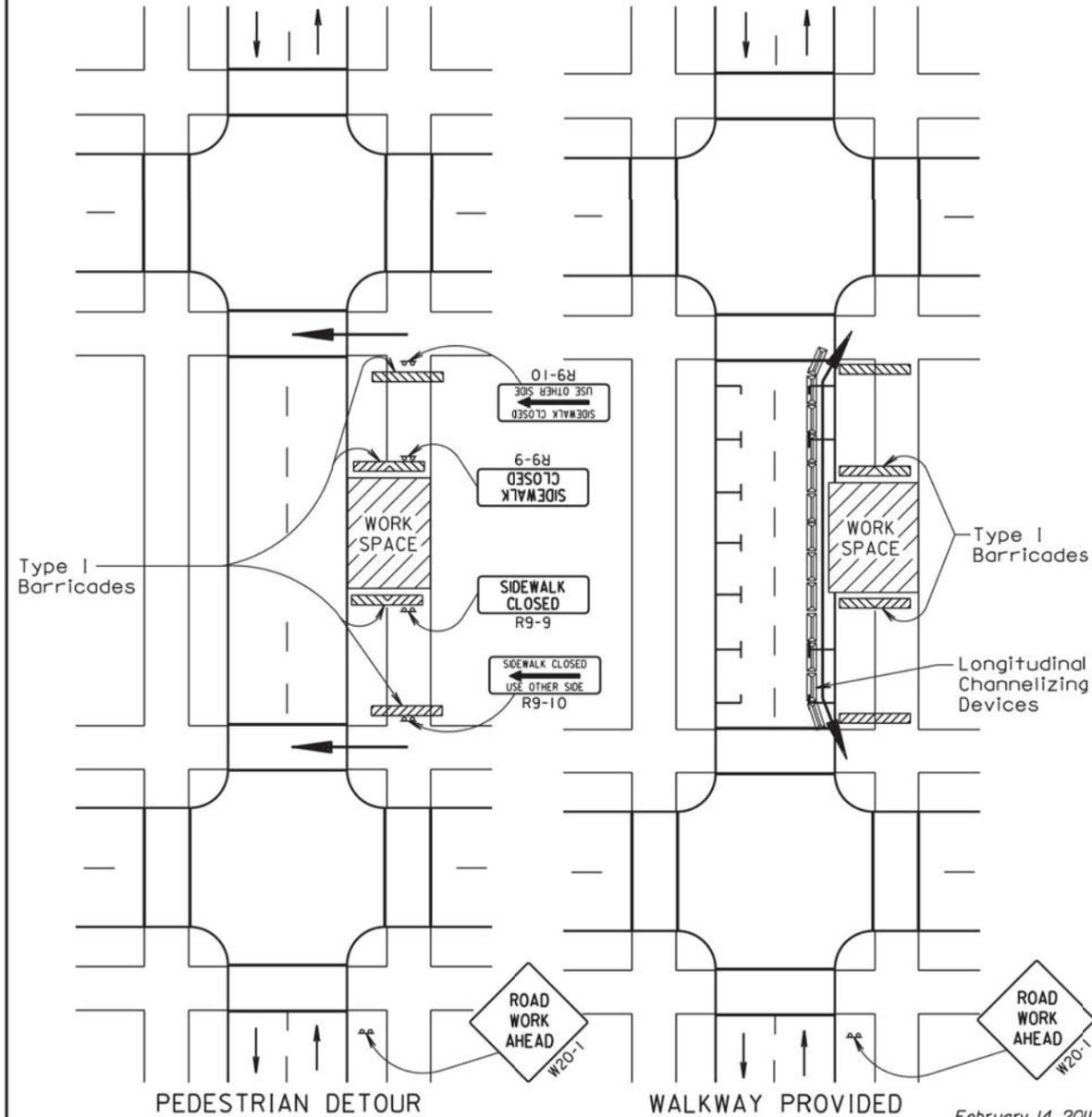
Only the traffic control devices controlling pedestrian flows are shown. Other devices may be needed to control traffic on the streets. Use lane closure signing or ROAD NARROWS signs, as needed.

For nighttime closures, Type A flashing warning lights may be used on barricades supporting signs and closing walkways. Type C steady-burn lights may be used on channelizing devices separating the temporary walkway from vehicular traffic.

Signs may be placed along a temporary walkway to guide or direct pedestrians. Examples include KEEP RIGHT and KEEP LEFT signs.

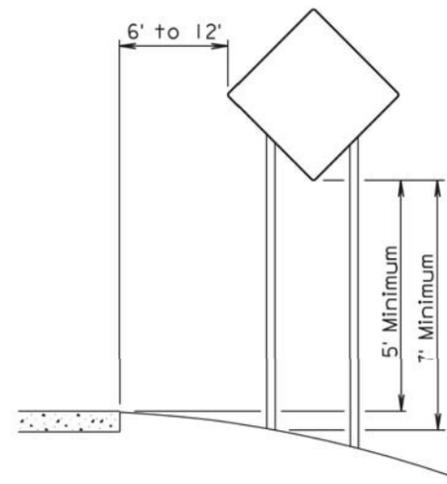
Street lighting should be considered.

Additional advance warning may be necessary.

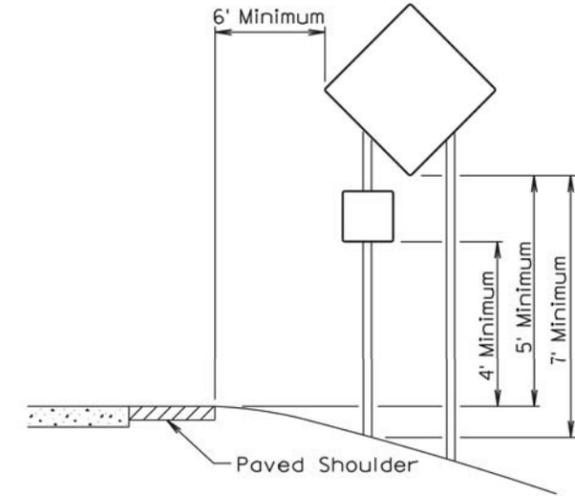


February 14, 2011

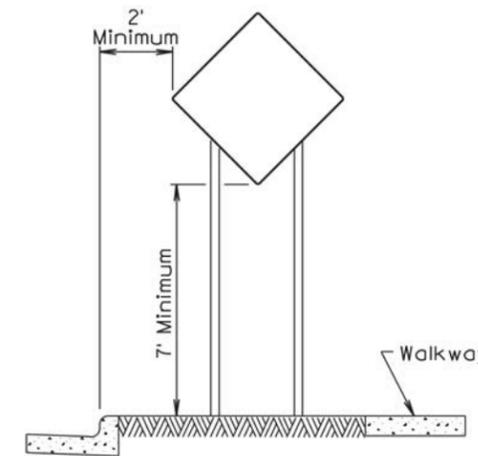
Published Date: 4th Qtr. 2013	S D D O T	GUIDES FOR TRAFFIC CONTROL DEVICES SIDEWALK CLOSURES AND BYPASS WALKWAY	PLATE NUMBER 634.35
			Sheet 1 of 1



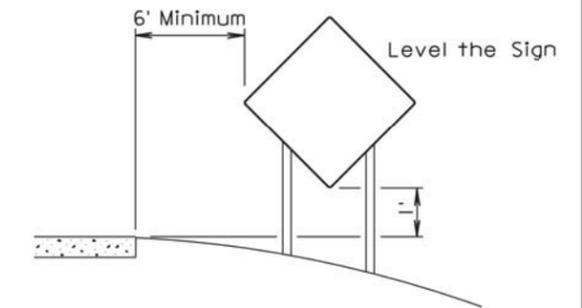
RURAL DISTRICT



RURAL DISTRICT WITH SUPPLEMENTAL PLATE



URBAN DISTRICT



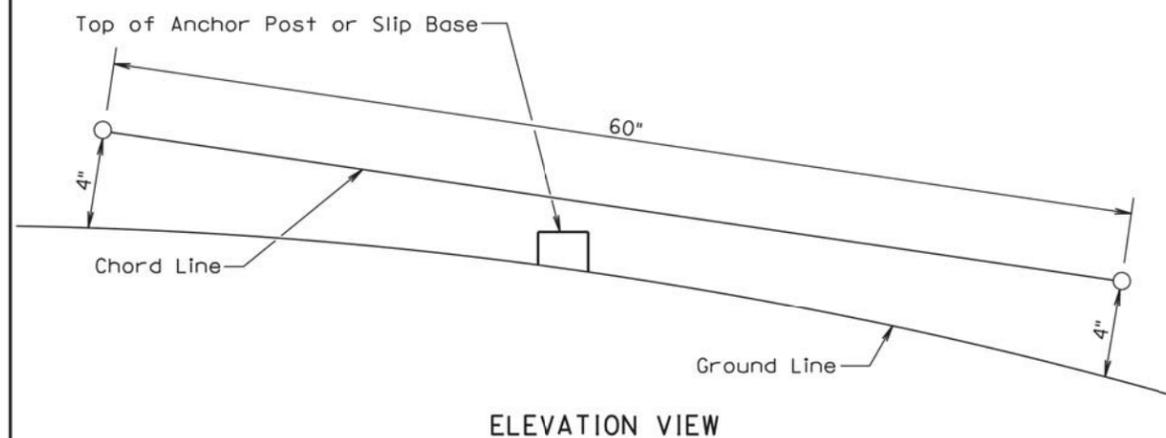
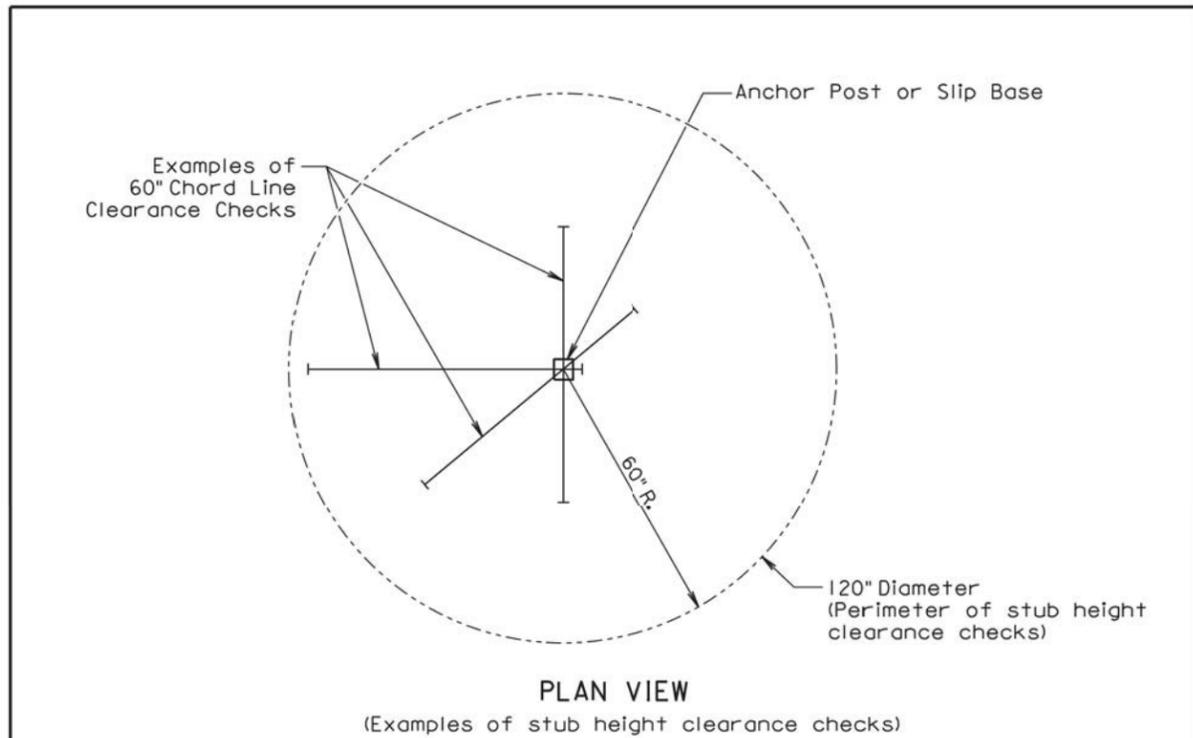
RURAL DISTRICT  
3 DAY MAXIMUM

February 14, 2011

Published Date: 1st Qtr. 2014	S D D O T	CRASHWORTHY SIGN SUPPORTS (Typical Construction Signing)	PLATE NUMBER 634.85
			Sheet 1 of 1

# STANDARD PLATES AND DETAILS FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	37	41



**GENERAL NOTES:**

The top of anchor posts and slip bases SHALL NOT extend above a 60" chord line within a 120" diameter circle around the post with ends 4" above the ground.

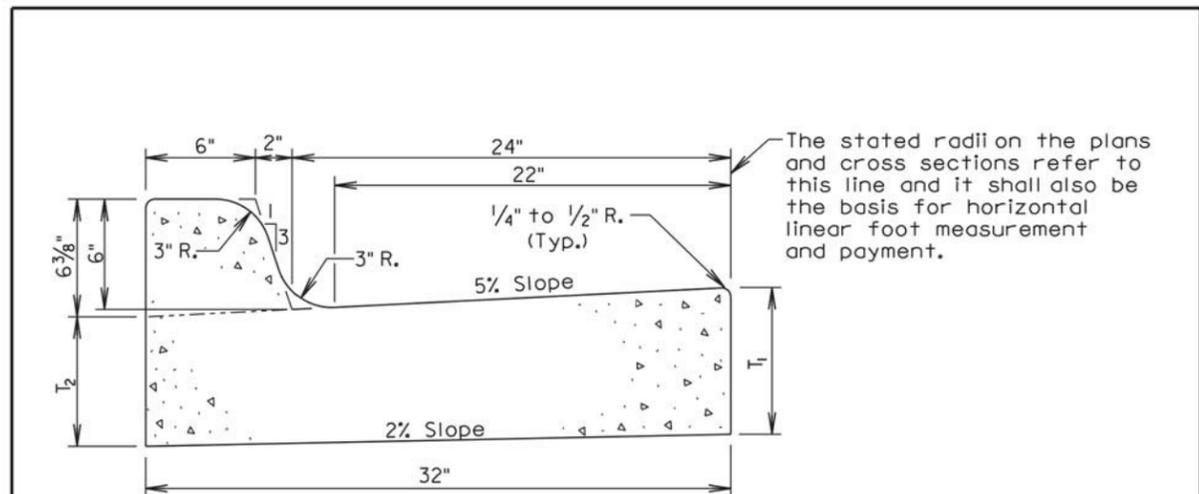
At locations where there is curb and gutter adjacent to the breakaway sign support, the stub height shall be a maximum of 4" above the ground line at the localized area adjacent to the breakaway support stub.

The 4" stub height clearance is not necessary for U-channel lap splices where the support is designed to yield (bend) at the base.

July 1, 2005

<b>S D D O T</b>	<b>BREAKAWAY SUPPORT STUB CLEARANCE</b>	PLATE NUMBER <b>634.99</b>
		Sheet 1 of 1

Published Date: 1st Qtr. 2014



Type	T <sub>1</sub> (Inches)	T <sub>2</sub> (Inches)	Cu. Yd. Per Lin. Ft.	Lin. Ft. Per Cu. Yd.
B66	6	5 <sup>1</sup> / <sub>16</sub>	0.057	17.7
B67	7	6 <sup>1</sup> / <sub>16</sub>	0.065	15.4
B68	8	7 <sup>1</sup> / <sub>16</sub>	0.073	13.7
B68.5	8.5	7 <sup>7</sup> / <sub>16</sub>	0.077	13.0
B69	9	8 <sup>1</sup> / <sub>16</sub>	0.081	12.3
B69.5	9.5	8 <sup>7</sup> / <sub>16</sub>	0.085	11.7
B610	10	9 <sup>1</sup> / <sub>16</sub>	0.090	11.2
B610.5	10.5	9 <sup>7</sup> / <sub>16</sub>	0.094	10.7
B611	11	10 <sup>1</sup> / <sub>16</sub>	0.098	10.2
B611.5	11.5	10 <sup>7</sup> / <sub>16</sub>	0.102	9.8
B612	12	11 <sup>1</sup> / <sub>16</sub>	0.106	9.4

**GENERAL NOTES:**

When concrete curb and gutter longitudinally adjoins new concrete pavement, the method of attachment shall be by one of the methods shown on Standard Plate 380.11.

See Standard Plate 650.90 for expansion and contraction joints in the curb and gutter.

September 6, 2008

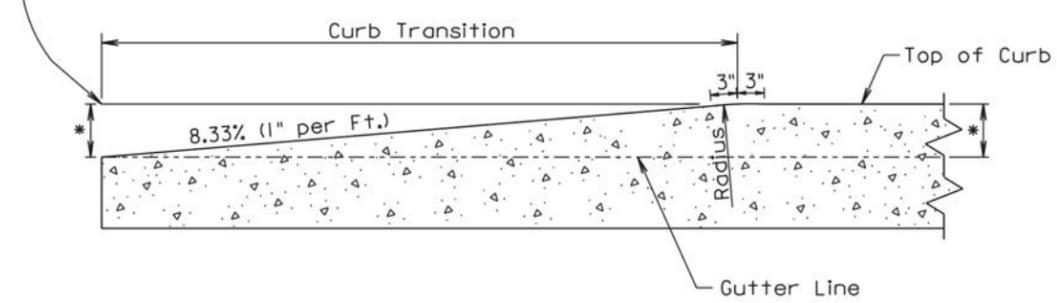
<b>S D D O T</b>	<b>TYPE B CONCRETE CURB AND GUTTER</b>	PLATE NUMBER <b>650.01</b>
		Sheet 1 of 1

Published Date: 1st Qtr. 2014

# STANDARD PLATES AND DETAILS FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	38	41

End and theoretical elevation of top of curb and gutter shown on plans and cross sections.

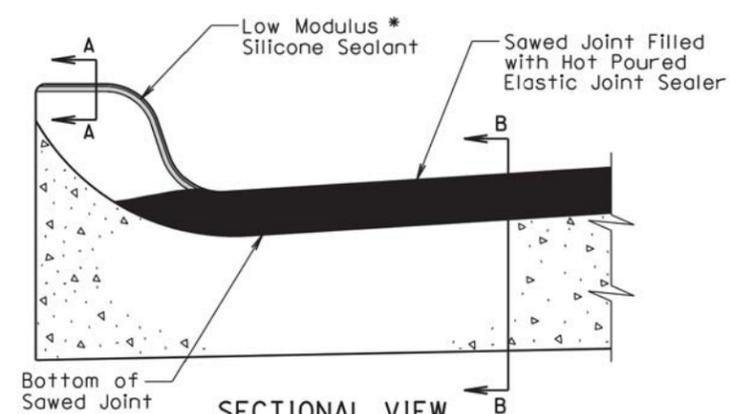


\* Height of Curb

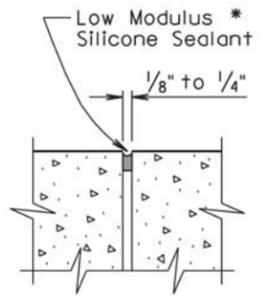
LONGITUDINAL SECTION OF CONCRETE CURB TAPER

September 14, 2005

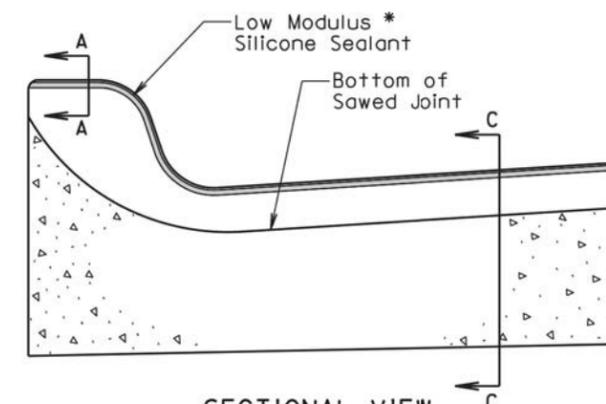
Published Date: 1st Qtr. 2014	S D D O T	CONCRETE CURB TAPER	PLATE NUMBER 650.35
			Sheet 1 of 1



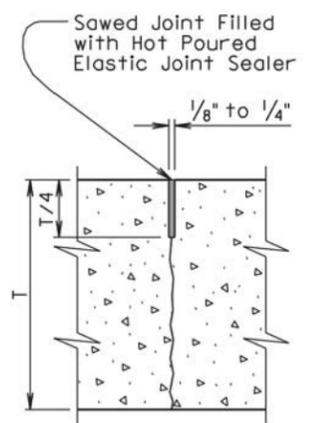
SECTIONAL VIEW  
(Curb and Gutter Placed Monolithic with Adjacent Mainline PCC Pavement)



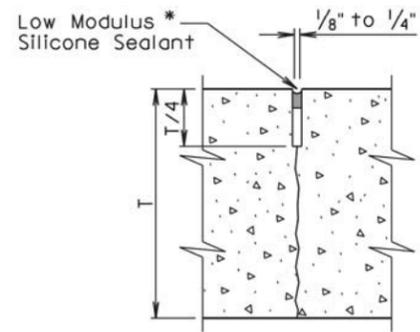
SECTION A-A



SECTIONAL VIEW  
(Curb and Gutter not Placed Monolithic with Adjacent Mainline PCC Pavement or Mainline Surfacing is not PCC Pavement)



SECTION B-B



SECTION C-C

\* The silicone sealant shall be placed such that it completely seals the joint and is bonded to the sides of the clean joint as approved by the Engineer.

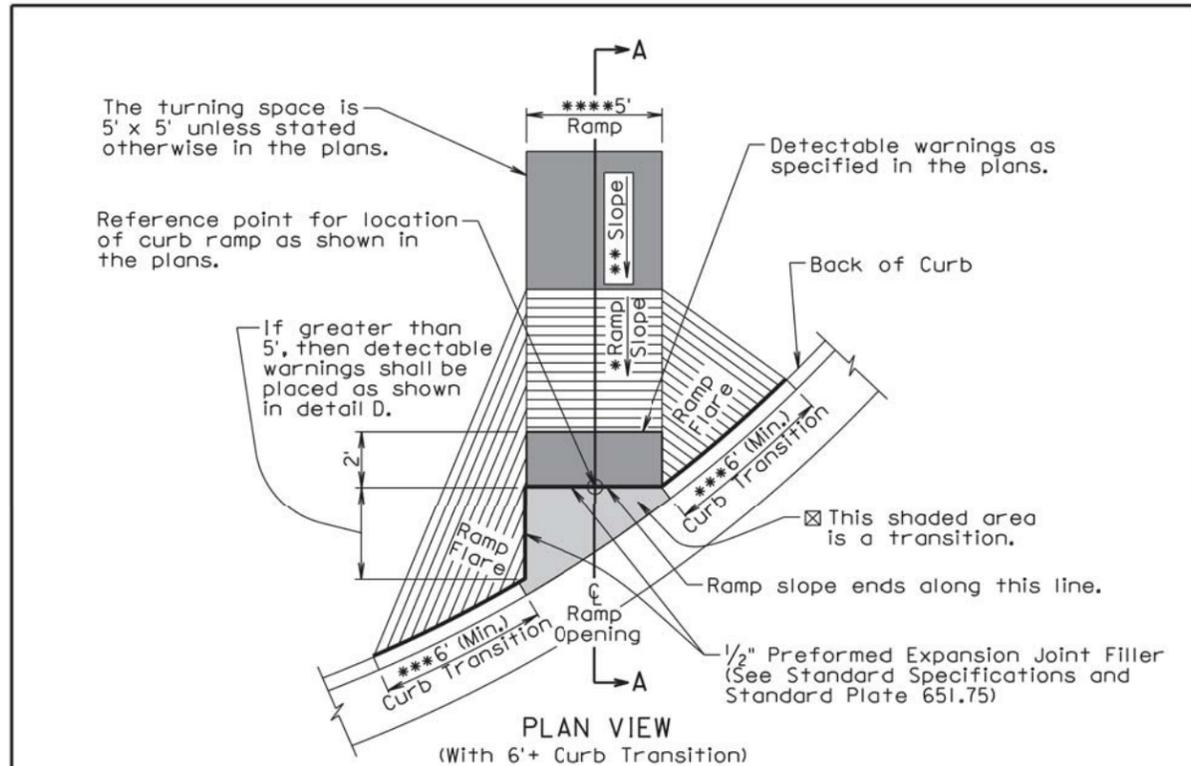
September 6, 2013

Published Date: 1st Qtr. 2014	S D D O T	JOINTS IN CONCRETE CURB AND GUTTER	PLATE NUMBER 650.90
			Sheet 1 of 2

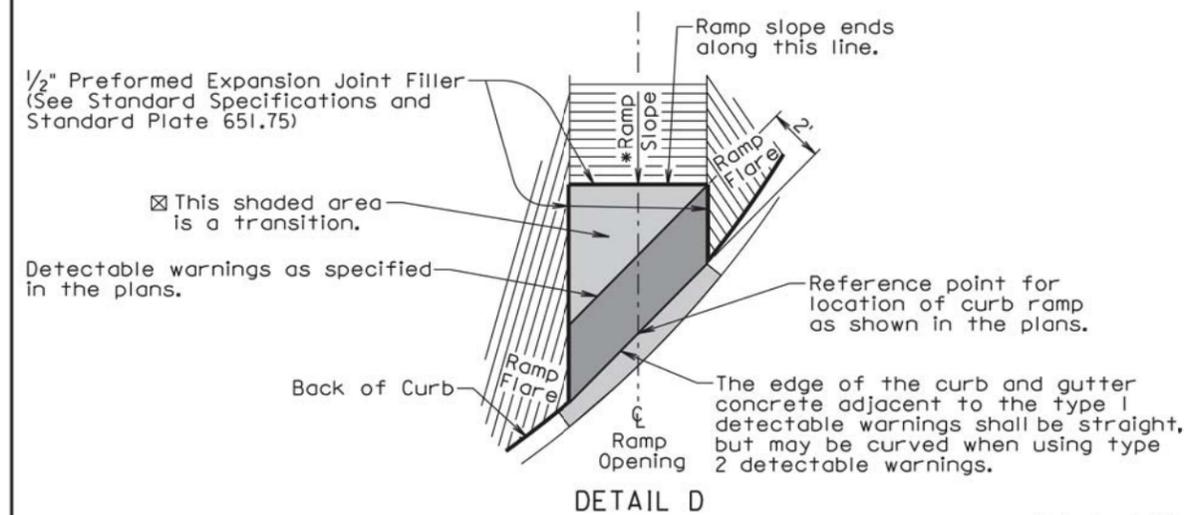
S:\2008\design\CAD\SHETS\6-SHEETS-STANDARD PLATES.dwg PLOT DATE: 4/20/14 2:27 PM Phil Gombardson

# STANDARD PLATES AND DETAILS FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	39	41

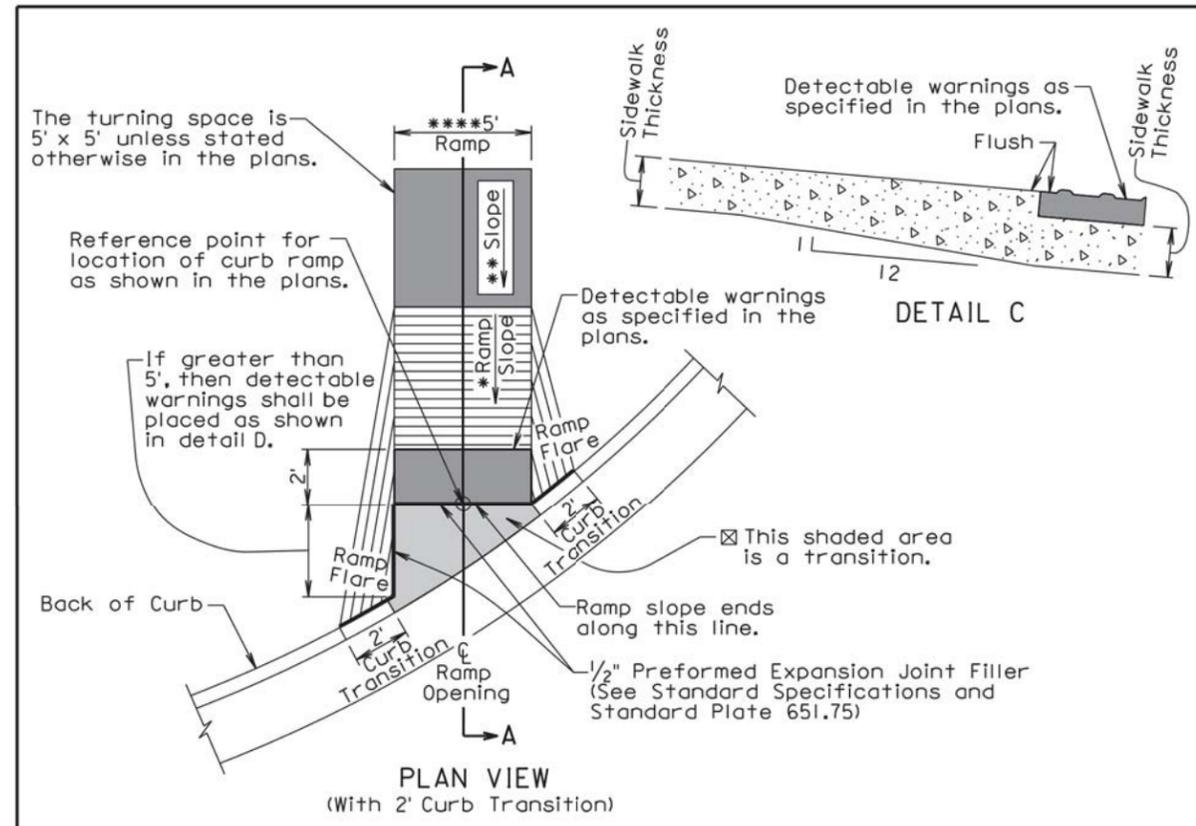


- ☒ The slope within the transition area shall not be steeper than a 20:1 (5%). The concrete within the transition shall be placed monolithic with the curb and gutter or fillet section concrete. The concrete thickness within the transition shall be the same as the curb and gutter or fillet section concrete thickness.
- \*\*\*The curb transition shall be a minimum of 6' long, a maximum of 10' long, and the curb transition slope shall not be steeper than a 10:1 (10%) unless stated otherwise in the plans.

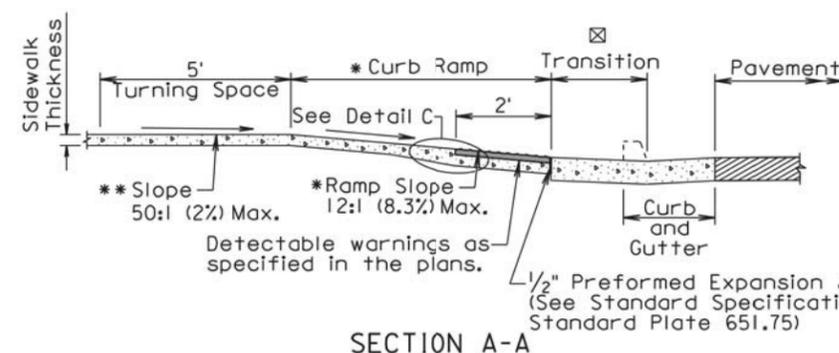


September 6, 2013

Published Date: 1st Qtr. 2014	S D D O T	TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)	PLATE NUMBER 651.02
			Sheet 1 of 3



- \* The ramp slope shall be 12:1 (8.3%) maximum. The ramp length shall not exceed 15' unless stated otherwise in the plans. Ramp slopes are designed at 12:1 (8.3%) unless stated otherwise in the plans.
- The cross slope of the ramp shall not be steeper than 50:1 (2%).
- \*\* The slope in the turning space shall not be steeper than a 50:1 (2%) in any direction of pedestrian travel.
- \*\*\*\* The ramp width is 5' unless stated otherwise in the plans.



September 6, 2013

Published Date: 1st Qtr. 2014	S D D O T	TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)	PLATE NUMBER 651.02
			Sheet 2 of 3

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# STANDARD PLATES AND DETAILS FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	40	41

## 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, with curved curb and gutter, or with straight curb and gutter. The curb ramp shall be placed at the location stated in the plans.

Sidewalk shall not be placed adjacent to the ramp flares when a 2' curb transition is used unless shown otherwise in the plans.

\* Care shall be taken to ensure a uniform grade on the ramp, free of sags and short grade changes.

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

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

Joints shall be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking.

Care shall be taken to ensure that the surface of the detectable warnings are clean and maintains a uniform color.

The detectable warnings shall be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings shall be incidental to the corresponding detectable warning bid item.

There will be no separate payment for curb ramps. The curb ramp shall be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk bid item. The square foot area of the detectable warnings shall be included in the measured and paid for quantity of sidewalk.

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

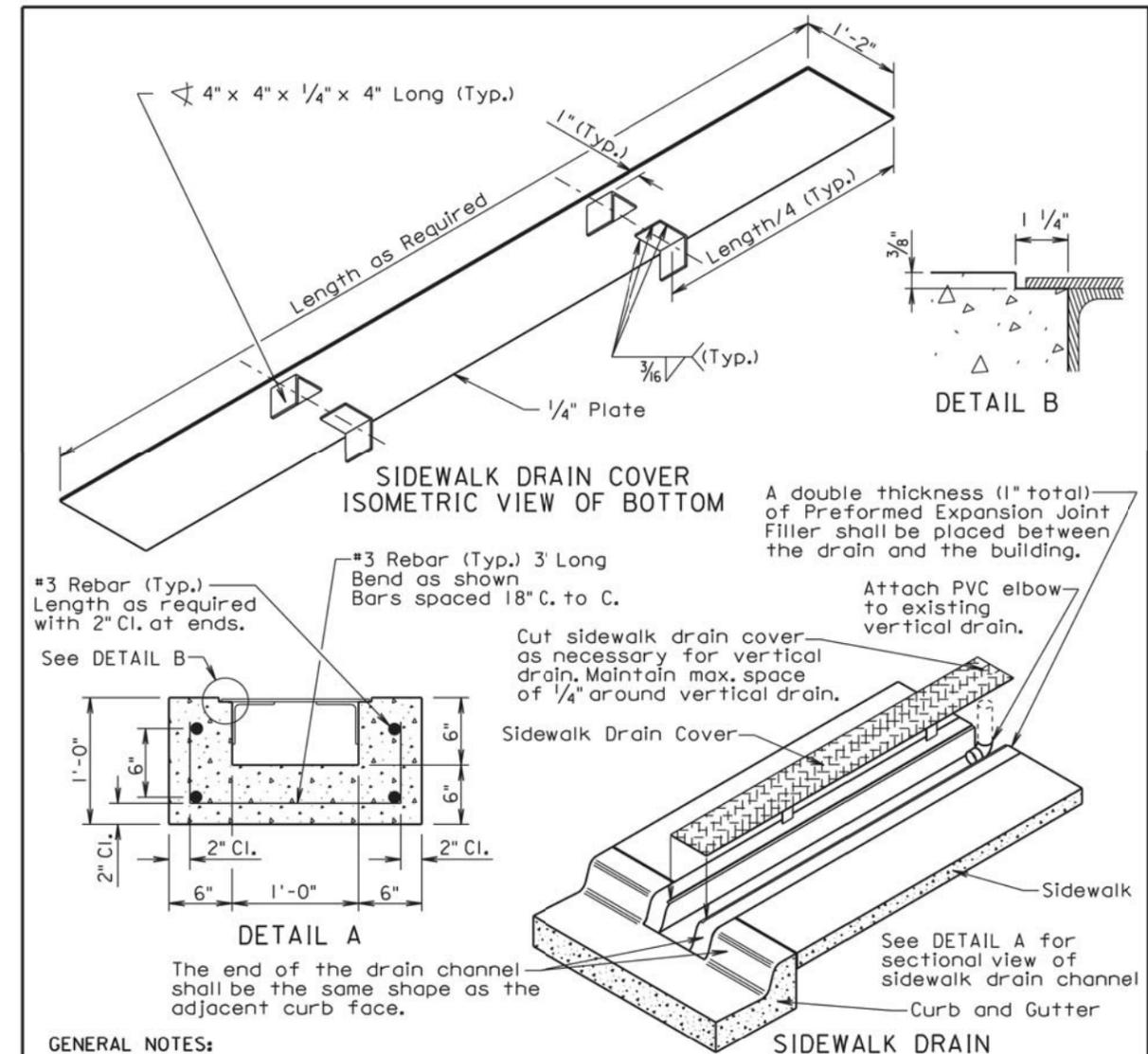
All costs for furnishing and installing the transition area at the base of the ramp shall be incidental to the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used and shall be incidental to the contract unit price per square yard for the corresponding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

The type 1 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 1 detectable warnings including labor, equipment, materials, and incidentals shall be paid for at the contract unit price per square foot for "Type 1 Detectable Warnings".

The type 2 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding shall be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

September 6, 2013

<b>S D D O T</b>	<b>TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)</b>	PLATE NUMBER <b>651.02</b>
	Published Date: 1st Qtr. 2014	Sheet 3 of 3



## GENERAL NOTES:

Concrete shall be Class M6 in accordance with Section 462 of the Standard Specifications.

Reinforcing steel shall conform to ASTM A615, Grade 60.

Structural Steel shall conform to ASTM A36. The sidewalk drain cover shall conform to ASTM A786.

Welding and weld inspection shall be in conformance with the current edition of the AWS D1.1 Structural Welding Code-Steel.

The cover plate assembly shall be galvanized after fabrication. Galvanizing shall be in accordance with ASTM 123.

All costs associated with providing the required curb cut shall be incidental to the contract unit price per foot for the corresponding curb and gutter bid item.

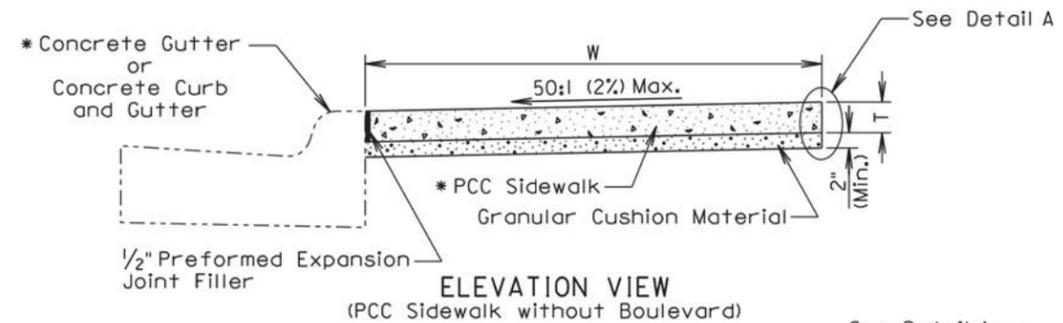
The sidewalk drain shall be measured and paid for to the nearest tenth of a foot. The length of the drain shall be measured from the gutter to the necessary end location adjacent to the building. All costs associated with furnishing and installing the sidewalk drain channel and cover including the attachment to the vertical drain shall be incidental to the contract unit price per foot for "Sidewalk Drain".

June 26, 2013

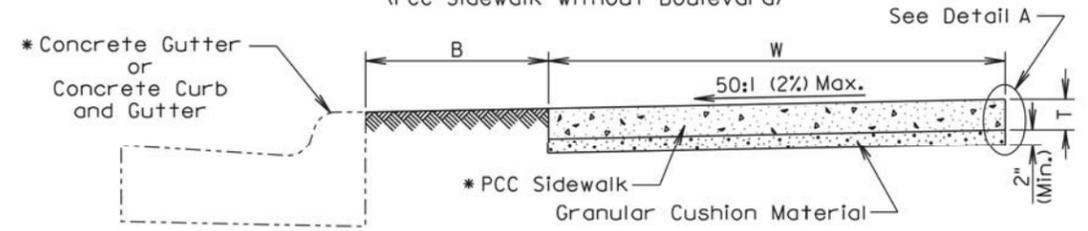
<b>S D D O T</b>	<b>SIDEWALK DRAIN</b>	PLATE NUMBER <b>651.50</b>
	Published Date: 3rd Qtr. 2013	Sheet 1 of 1

# STANDARD PLATES AND DETAILS FOR BIDDING PURPOSES ONLY

PROJECT	SHEET NO.	TOTAL SHEETS
P SRTS(30)	41	41

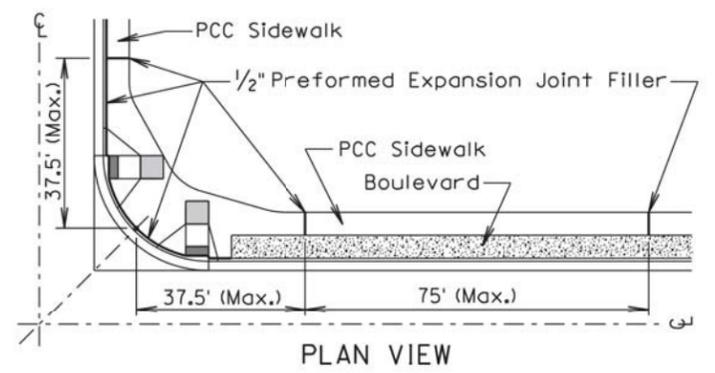


**ELEVATION VIEW**  
(PCC Sidewalk without Boulevard)



**ELEVATION VIEW**  
(PCC Sidewalk with Boulevard)

- B Width of boulevard as specified in the plans.
- T Thickness of PCC sidewalk as specified in the plans.
- W Width of PCC sidewalk as specified in the plans.
- \* Type as specified in the plans.



**PLAN VIEW**

**GENERAL NOTES:**

The PCC sidewalk shall be constructed in accordance with Section 651 of the Standard Specifications.

The maximum length between expansion joints in PCC sidewalk is 75 feet.

PCC sidewalk placed adjacent to intersection of roadways shall have an expansion joint placed transversely a maximum of 37.5 feet from the intersection. See PLAN VIEW.

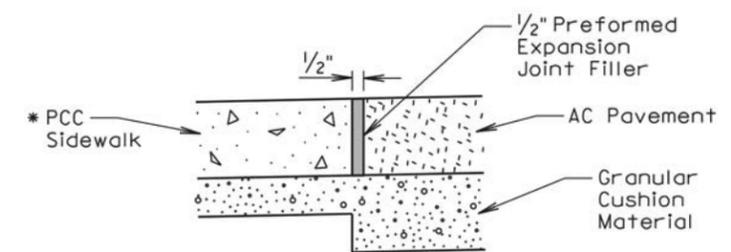
An expansion joint in PCC sidewalk shall consist of a 1/2 inch thick preformed expansion joint filler material placed full depth and width of the PCC sidewalk.

\*\* Large areas of PCC pavement adjacent to PCC sidewalk may require a different joint treatment than shown in the detail. If a different joint detail is necessary, plans will contain the joint detail and the Contractor shall construct the joint treatment in accordance with the plans.

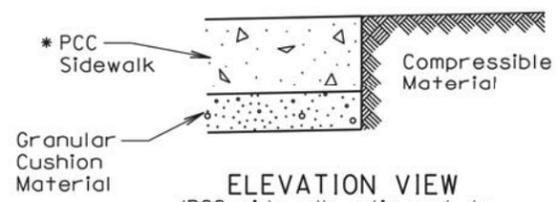
August 31, 2013

<b>S D D O T</b>	<b>PCC SIDEWALK</b>	PLATE NUMBER <b>651.75</b>
		Sheet 1 of 2

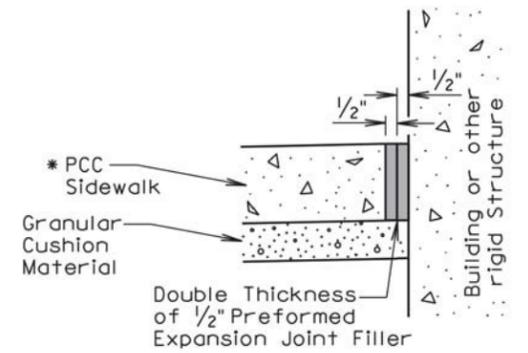
Published Date: 1st Qtr. 2014



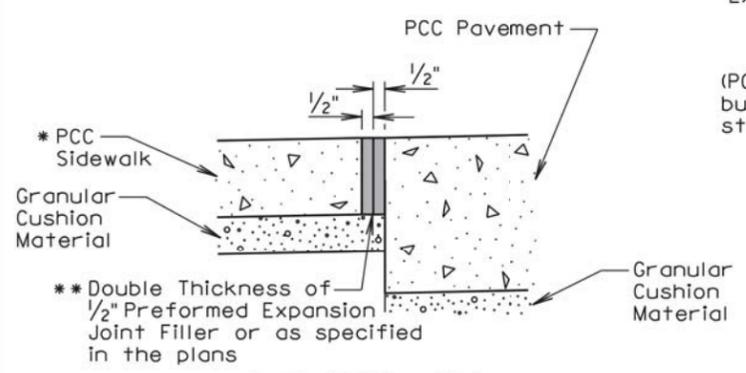
**ELEVATION VIEW**  
(PCC sidewalk adjacent to asphalt concrete pavement)



**ELEVATION VIEW**  
(PCC sidewalk adjacent to earthen material, landscape rock, or other compressible materials)



**ELEVATION VIEW**  
(PCC sidewalk adjacent to building or other rigid structure)



**ELEVATION VIEW**  
(PCC sidewalk adjacent to PCC pavement)

**Detail A**  
(Use Appropriate Detail(s))

August 31, 2013

<b>S D D O T</b>	<b>PCC SIDEWALK</b>	PLATE NUMBER <b>651.75</b>
		Sheet 2 of 2

Published Date: 1st Qtr. 2014

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PLOT DATE: 4/7/2014 5:47 PM Phil Guadagnolo