

Meade County
P 7668(05)
PCN 04AE

A Pre-Bid meeting will be held in Sturgis at the Sturgis Fire Hall (1901 Ballpark Road) from 10:00am to 12:00pm MT on Thursday, February 18, 2016. All interested parties are strongly encouraged to attend.

SECTION H: LANDSCAPE PLANS

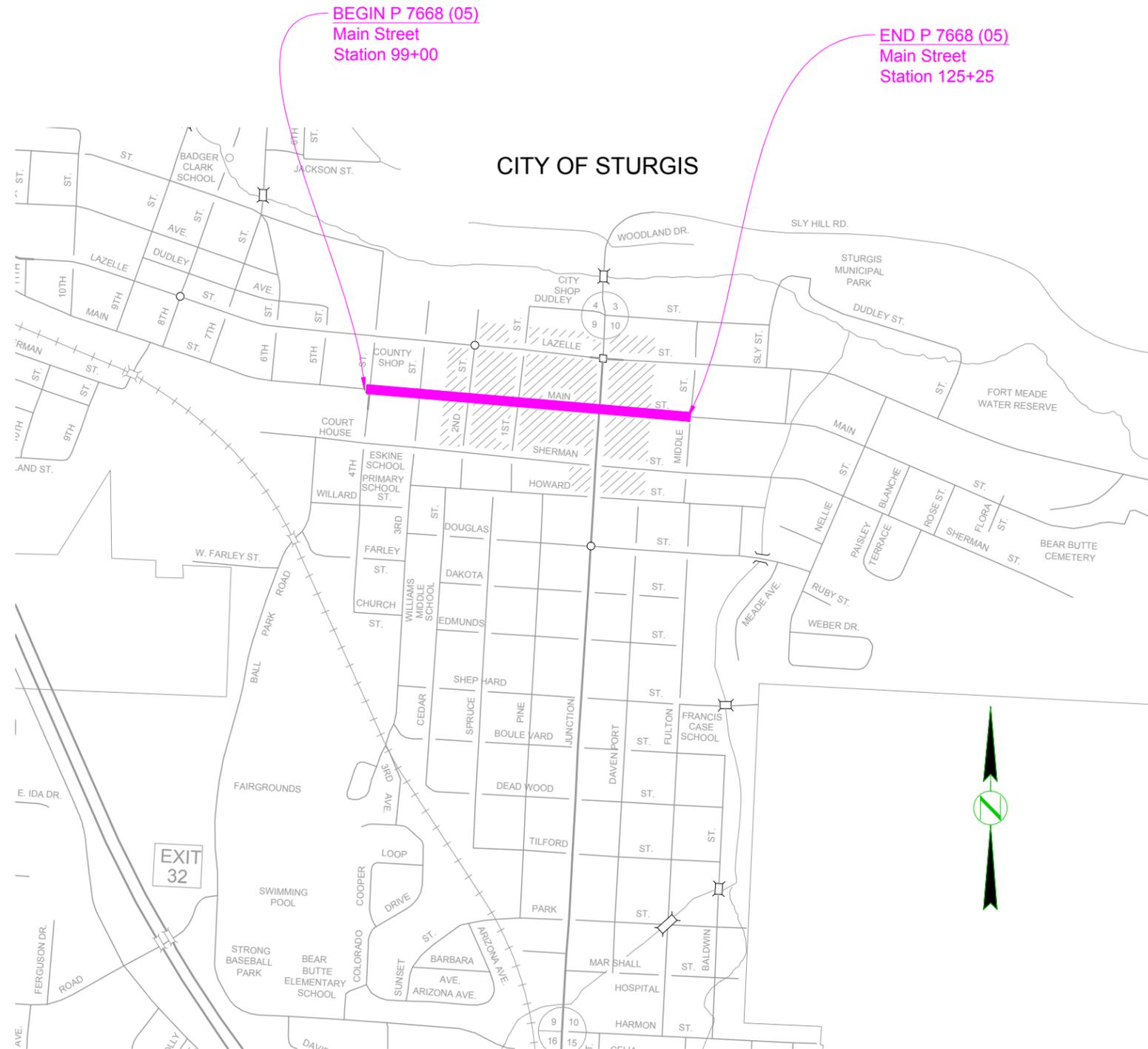
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H1	H51

Plotting Date: 10/15/2015

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SECTION H ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
* 110E7060	Remove MSE Segmental Modular Wall for Reset	918	SqFt
230E0020	Placing Contractor Furnished Topsoil	300	CuYd
* 462E0100	Class M6 Concrete	5.3	CuYd
* 480E0100	Reinforcing Steel	392	Lb
* 530E0411	Reset MSE Segmental Block Wall	918	SqFt
635E5310	Special Electrical Junction Box	4	Each
635E5400	Electrical Service Cabinet	5	Each
635E5680	Pedestal Mounted Receptacle w/ Concrete Base	13	Each
635E6200	Miscellaneous, Electrical	Lump Sum	LS
635E8108	0.75" Rigid Conduit, Schedule 40	400	Ft
635E8112	1.25" Rigid Conduit, Schedule 40	1400	Ft
635E8210	1" Rigid Conduit, Schedule 80	1000	Ft
635E8215	1.5" Rigid Conduit, Schedule 80	250	Ft
635E9012	1/C #2 AWG Copper Wire	6550	Ft
635E9020	1/C #10 AWG Copper Wire	150	Ft
635E9022	1/C #12 AWG Copper Wire	1850	Ft
635E9024	1/C #14 AWG Copper Wire	2050	Ft
650E3200	Special Concrete Curb	334	Ft
735E0110	1 Gallon Perennial Plant, Furnish and Plant	460	Each
735E1210	2 Gallon Deciduous Shrub, Furnish and Plant	180	Each
735E2240	4" Caliper Deciduous Tree, Furnish and Plant	13	Each
735E5020	2 Gallon Ornamental Grass, Furnish and Plant	324	Each
831E0200	Woven Geotextile Separator	850	SqYd
900E5152	Weed Barrier Fabric	731	SqYd
900E5156	3" Depth Shredded Bark Mulch	619	SqYd
900E5190	Planter Rail	1246	Ft
900E5420	Irrigation System	6	Each
900E5430	Irrigation System	Lump Sum	LS

* Non-Participating Bid Item

LEGEND (Coordinate with Civil Plans and Specifications)

- A**  Standard Gray Concrete Sidewalk
- B**  #920 - Charcoal (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk Banding
- C**  #238 - Doeskin (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk
- D**  #413 - Fox Red (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk

Note:
Colored concrete as specified. Supplied by:
Solomon Colors, Inc.
4050 Color Plant Road Springfield, IL 62702
Phone 800-624-0261
www.solomoncolors.com, or approved equal

GENERAL LANDSCAPE NOTES

Bid item number 110E7060 - Remove MSE Segmental Modular Wall for Reset, includes dismantling, protecting and preserving existing modular block structures. The City of Sturgis has pre-assembled units in an enclosed store-yard near Public Works Office and City Shop on Dudley Street.

Bid item numbers 462E0100 - Class M6 Concrete and 480E0100 - Reinforcing Steel, both pertain to cast in place concrete cap per detail 1/ Segmental Block Sculpture Plinth. Contractor has option to use precast concrete cap. These items will be paid for as plans quantity. If precast is utilized, the payment for the concrete and steel will be full payment for the precast units.

Bid item number 530E0411 - Reset MSE Segmental Block Wall, includes constructing sculpture plinth bases using segmental modular blocks that were dismantled from existing structures owned by City of Sturgis, per detail 1/ Segmental Block Sculpture Plinth.

Bid item number 650E3200 - Special Concrete Curb, includes a (4") height concrete curb planter per detail 1/ Concrete (4") Curb Planter.

Bid item number 900E5190 - Planter Rail, includes (6") height colored concrete curb wall with planter rail and all assembly and surface mounting components per details 1/ Planter Rail: (6") height Planter, Colored concrete Curb wall, 1/ 12" Height Planter Rail and 2/ Planter Rail Panel Sizes.

Bid item number 900E5430 - Irrigation System lump sum includes circuit (main) and distribution (lateral) piping and associative trenching, backflow preventer and meter housed in enclosure, sidewalk crossing sleeves, quick couplers, gate valves, solenoid valves, drip assemblies and other miscellaneous per plans and details. Excludes irrigation controllers, electrical supply and supplemental electrical interface. Note: Middle Street intersection is a manual system only and includes piping, valves, and quick couplers only.

PLACING CONTRACTOR FURNISHED TOPSOIL

The thickness will be approximately 12 inches (or per Planting Details) placed at Planters/ Beds. The estimated amount of topsoil to be placed is as follows:

Topsoil Station 100+00 to Station 125+25 (CuYd) Total: 300 CuYd
See Typical Node Details on Sheets H4, H5, H23, H24, H25, H32 and H33.

All costs to furnish and place the topsoil shall be incidental to the contract unit price per cubic yard for "Placing Contractor Furnished Topsoil"

Topsoil requirements include a mixture of Topsoil with Compost and Amendments at a 4:1 ratio of soil to compost; specifications are as follows:

- A. Topsoil: ASTM D 5268, pH range of 5.5 to 8, 4% organic material minimum, free of stones 1- inch or larger in any dimension, and other extraneous materials harmful to plant growth.
- B. Compost: One hundred percent (100%) humus rich organic matter. The compost shall be a well decomposed, stable, weed free organic matter derived from agricultural, food, or industrial residuals; biosolids (treated sewage sludge); yard trimmings, or source-separated or mixed solid waste. Product must be certified as fully composted at a permitted solid waste processing facility.. Product shall contain no solid particle greater than 1/2-inch in length or diameter and be free from un-composted or non-stabilized wood bulking agents. Product shall contain no substances toxic to plants and shall be reasonably free (<1% by dry weight) of man-made foreign matter. The compost will possess no objectionable odors and shall not resemble the raw material from which it was derived.
- C. Provide analysis for the following:
 - 1. Organic Matter Content: 30-70% (dry basis)
 - 2. Soluble Salt Concentration (EC paste test): 5 dS (mmhols/cm) or less (as received)
 - 3. PH range: 5.5 to 8.0 (as received)
 - 4. Final carbon to nitrogen ratio: 20:1 or less.
 - 5. Nutrient Content (dry weight basis): N 1% or above, P 1% or above, K, 0.5% or above.
 - 6. Bulk Density: 800-1,000 lbs/yd3
 - 7. Moisture Content: 35% - 55%
- D. Certification of Topsoil Testing: The Contractor shall furnish to the City and Engineer a full analysis of topsoil and compost considered for use along with recommended amendments and fertilization prior to delivery or installation.



WEED BARRIER FABRIC/LANDSCAPE FABRIC

Weed barrier fabric shall be placed at the areas specified in the plans.

Weed barrier fabric shall be anchored to the ground with 6" U shaped staples. The staples shall be placed at a 4' spacing along all edges, overlaps, and throughout the area of weed barrier fabric. The weed barrier fabric shall be overlapped 4" between rolls.

Weed barrier fabric shall be measured to the nearest square yard. Measurement of the overlaps will not be made.

All costs for furnishing, handling, and placing the weed barrier fabric including the materials, equipment, labor, and incidentals necessary shall be incidental to the contract unit price per square yard for "Weed Barrier Fabric".

The weed barrier fabric shall be provided from the list below or an approved alternate:

Weed Barrier Fabric/Landscape Fabric

Product	Manufacturer
Geotex 351	Propex Inc. Chattanooga, TN Phone: 1-800-621-1273 www.geotextile.com
Earthscape 4530	Propex Inc. Chattanooga, TN Phone: 1-800-621-1273
Typar Professional Landscape Fabric 3301	Fiberweb, Inc. Old Hickory, TN Phone: 1-800-382-8467 www.typarlandscape.com

GENERAL PLANTING NOTES

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

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

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

All plants, trees, and shrubs shall be fertilized.

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

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

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

All costs for furnishing, handling, storing, fertilizing, and planting the plants, trees, and shrubs including the materials, equipment, labor, preparation of the ground, initial watering if irrigation system is not in place, cleanup of the planted areas, and the warranty, shall be incidental to the contract unit price per each.

SHREDDED BARK MULCH

Cedar bark mulch shall be placed at a thickness of 3 inches in areas shown on the plans after plants are planted.

All costs for furnishing, handling, and placing the shredded bark mulch including the materials, equipment, labor, and incidentals necessary shall be incidental to the contract unit price per square yard for "3" Depth Shredded Bark Mulch.

GENERAL ELECTRICAL NOTES

This electrical scope of work shall support the irrigation requirements for the new plantings installed with this project. In addition, power for future decorative accent lighting for the trees shall be provided. Electrical requirements for the street lighting scope is covered under Section L. The electrical work shall include the following:

The Main Street electrical feeder circuit installed as part of the Sturgis Plaza construction project and terminated at an underground pullbox located at the intersection of Main Street and 2nd Street shall be intercepted and extended to run along Main Street between the west side of 4th Street to the street "bumpout" structure just west of 1st Street. Where feasible, the electrical conduits shall share a common trench with the street lighting conduits, and shall utilize the street lighting pullboxes. Electrical conduits shall be rigid Sch.40, except where they are installed under traffic bearing areas where they shall be type rigid Sch.80. All electrical conductors shall be AWG copper.

Each newly landscaped area shall be provided with an irrigation controller to power and control the irrigation valves. The Irrigation System (bid item number 900E5420) shall include all components as shown on the Irrigation

Detail sheet and shall include all accessories and devices required for proper operation.

Where trees are installed, power for future accent lighting shall be provided by ground fault interrupting receptacles with weatherproof housing installed on pedestal mounts. The weatherproof Pedestal Mounted Receptacle with Concrete Base (bid item number 635E5680) shall include all components as shown on the Electrical Detail sheet and shall include all accessories and devices required for proper operation control for the tree receptacle shall be provided by user adjustable astronomic mechanical time switches which will turn lights ON and OFF at user preset times or ON at dusk and OFF at dawn.

A NEMA 12 stainless steel irrigation controller enclosure mounted on a reinforced concrete pedestal shall be installed at each intersection. The enclosure shall house the irrigation controller, irrigation receptacle, time switch and required accessories.

A 120/240V 60-amp/22kAIC rated load center with 30-amp main breaker with NEMA 3R lockable enclosure shall be mounted to the outside of each controller housing. A 240V 30-amp load center feeder shall be tapped to the Main Street feeder in the nearest handhole/pullbox. The load center shall power the irrigation valves and tree accent lighting receptacles.

The electrical installation shall include a complete grounding system, including but not limited to the installation of ground rods, conductors and bonding as required.

After installation, the system shall be tested, deemed fully operational and accepted by South Dakota Department of Transportation (SD DOT) and the City of Sturgis.

The installation shall comply with all requirements of the current edition of the National Electrical Code (NEC), local and state jurisdictions and electrical power utility company. All materials shall be as required by SD DOT.



TYPICAL/ SIMILAR STREETSCAPE LAYOUT PLAN

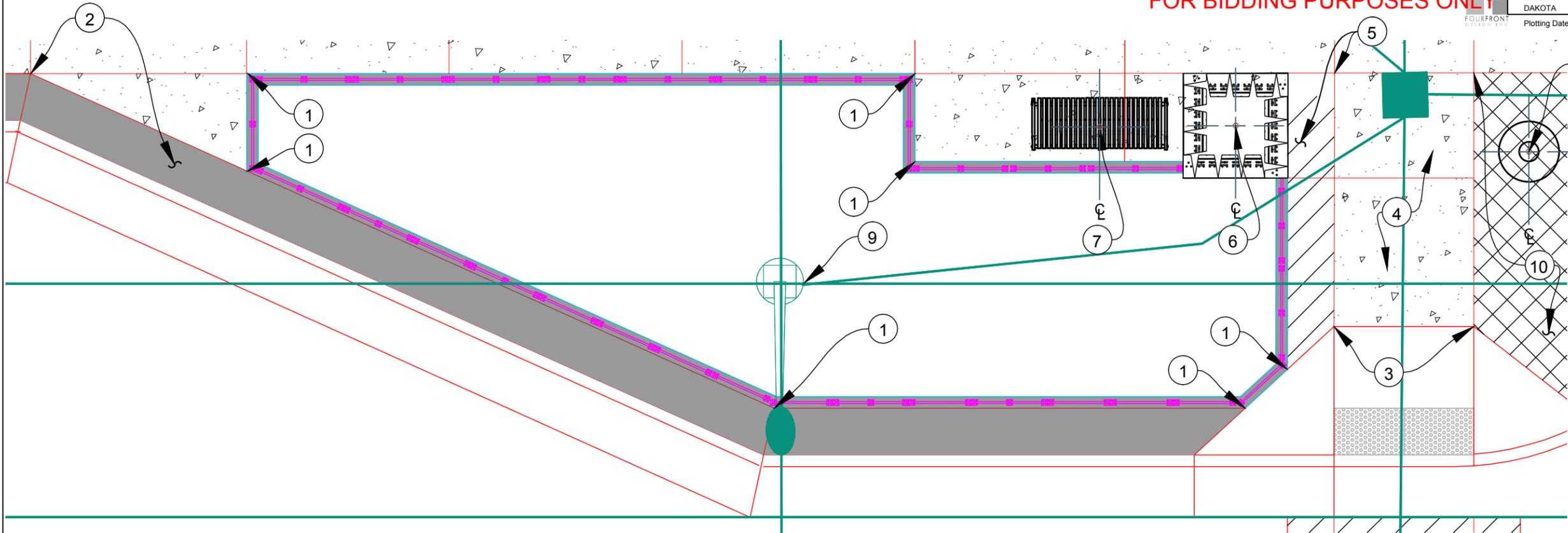
FOR BIDDING PURPOSES ONLY

FOURFRONT
DESIGN LLC

STATE
OF
SOUTH
DAKOTA

Plotting Date: 10/15/2015

PROJECT	SHEET	TOTAL SHEETS
P 7668 (05)	H4	H51



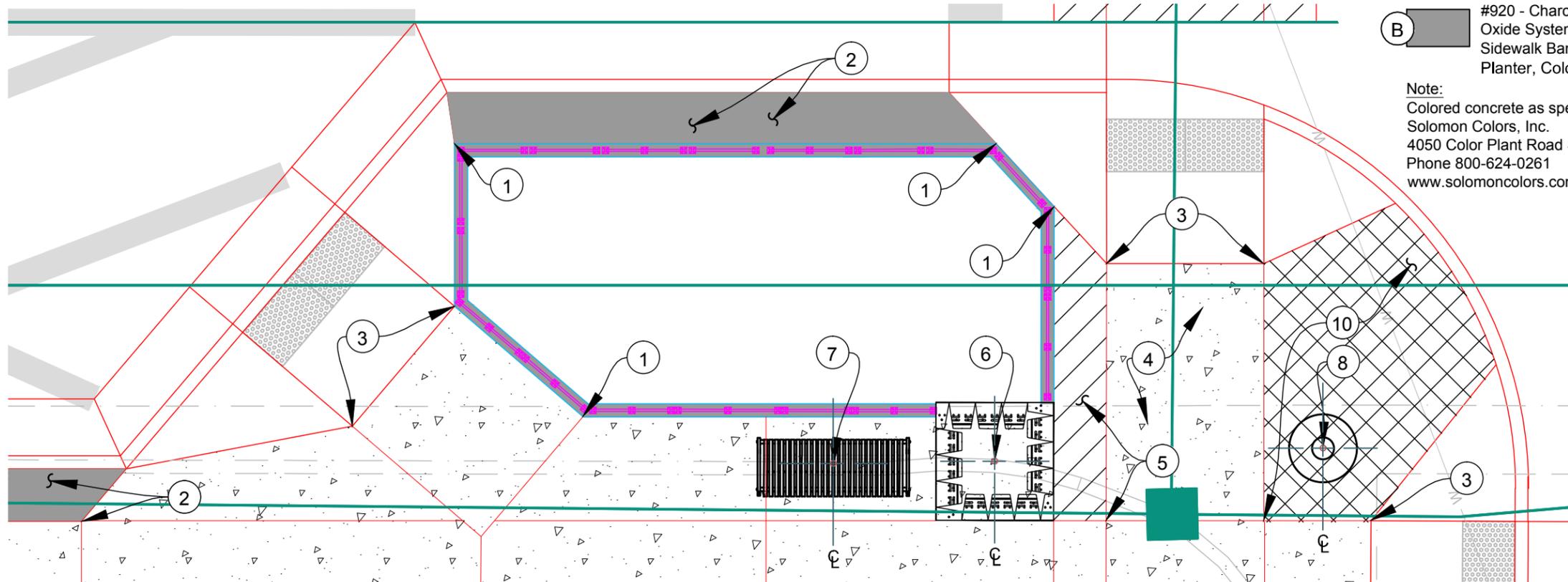
1 TYPICAL/ SIMILAR LAYOUT PLAN

LEGEND (Coordinate with Civil Plans and Specifications)

B #920 - Charcoal (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk Banding and (6") Height Planter, Colored Concrete Curb Wall

Note:
Colored concrete as specified. Supplied by:
Solomon Colors, Inc.
4050 Color Plant Road Springfield, IL 62702
Phone 800-624-0261
www.solomoncolors.com, or approved equal

- 1 PLANTER RAIL (6") HEIGHT
PLANTER - SEE H19 & H20
- 2 5" COLORED CONCRETE
BANDING #920 CHARCOAL
- SEE LEGEND SHEET H2
- 3 CURB RAMP DETAIL - SEE
SECTION B - GRADING PLANS,
SD DOT STANDARD PLATE
- 4 5" CONCRETE SIDEWALK
SECTION B - GRADING PLANS,
SD DOT STANDARD PLATE
- 5 5" COLORED CONCRETE
SIDEWALK #238 DOESKIN -
SEE LEGEND SHEET H2
- 6 SEGMENTAL BLOCK
SCULPTURE PLINTH -
SEE 1/ H21
- 7 BENCH, OWNER SUPPLIED,
OWNER INSTALLED - SEE 1/ H22
- 8 TRASH CONTAINER, OWNER
SUPPLIED, OWNER INSTALLED
- SEE 2/ H22
- 9 LIGHT POLE, TYPICAL - SEE
SECTION L - LIGHTING PLANS
- 10 5" COLORED CONCRETE
SIDEWALK #413 FOX RED -
SEE LEGEND SHEET H2



2 TYPICAL/ SIMILAR LAYOUT PLAN

TYPICAL/ SIMILAR STREETSCAPE LAYOUT PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA
FOURFRONT DESIGN INC.

PROJECT
P 7668 (05)
Plotting Date: 10/15/2015

SHEET	TOTAL SHEETS
H5	H51



SIDEWALK TRENCH DRAIN - SEE CIVIL PLANS

COLD APPLIED PLASTIC PAVEMENT MARKING STOP BAR, TYP.

COLORED CONCRETE CROSSWALK W/ COLD APPLIED PLASTIC PAVEMENT MARKING, TYP.

- 1 SPECIAL CONCRETE CURB (4") HEIGHT PLANTER - SEE H23 (Standard Gray Concrete)
- 2 5" COLORED CONCRETE BANDING #238 - DOESKIN - SEE H2
- 3 PLANTER RAIL (6") HEIGHT PLANTER - SEE H19 & H20
- 4 CURB RAMP DETAIL - SEE SECTION B - GRADING PLANS, SD DOT STANDARD PLATE
- 5 5" CONCRETE SIDEWALK SECTION B - GRADING PLANS, SD DOT STANDARD PLATE
- 6 5" COLORED CONCRETE SIDEWALK #238 DOESKIN - SEE LEGEND SHEET H2
- 7 SEGMENTAL BLOCK SCULPTURE PLINTH - SEE 1/ H21
- 8 TRASH CONTAINER, OWNER SUPPLIED, OWNER INSTALLED - SEE 2/ H22
- 9 5" COLORED CONCRETE SIDEWALK #413 FOX RED - SEE LEGEND SHEET H2

1 TYPICAL/ SIMILAR LAYOUT PLAN @ CONCRETE (4") CURB PLANTER

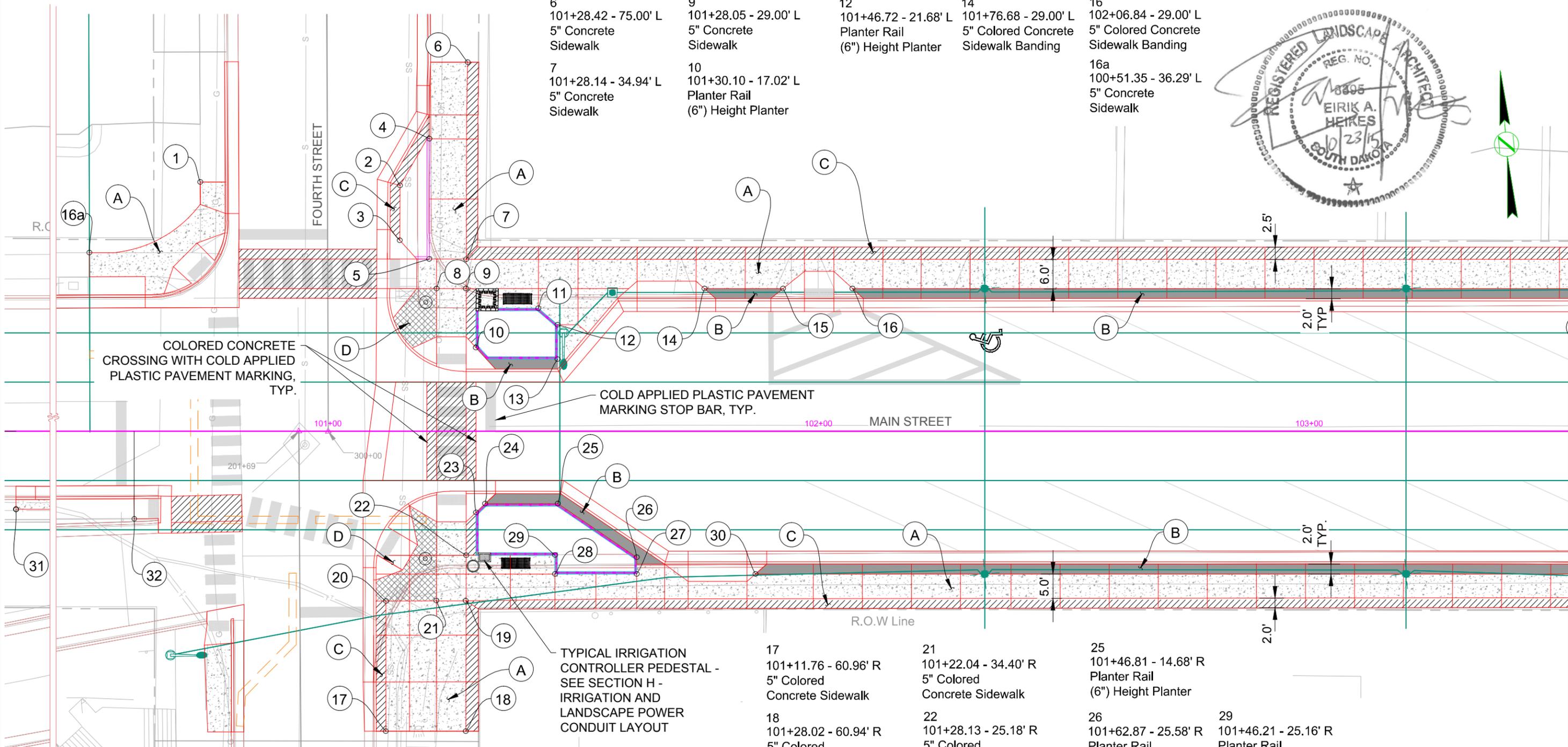
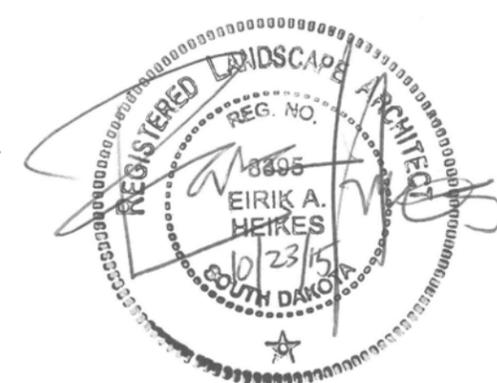
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STREETSCAPE LAYOUT PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H6	TOTAL SHEETS H51
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- | | | | | | | | | |
|---|---|---|---|---|--|--|--|--|
| 1
100+73.91 - 50.66' L
5" Concrete Sidewalk | 2
101+14.63 - 49.95' L
5" Colored Concrete Sidewalk Banding | 3
101+14.57 - 38.81' L
5" Colored Concrete Sidewalk Banding | 4
101+20.63 - 59.44' L
Special Conc. Curb (4") Height Planter | 5
101+20.61 - 35.00' L
Special Conc. Curb (4") Height Planter | 8
101+22.07 - 29.00' L
5" Concrete Sidewalk | 11
101+42.83 - 25.00' L
Planter Rail (6") Height Planter | 13
101+46.72 - 14.67' L
5" Colored Concrete Sidewalk Banding | 15
101+92.67 - 29.00' L
5" Colored Concrete Sidewalk Banding |
| | | | | 6
101+28.42 - 75.00' L
5" Concrete Sidewalk | 9
101+28.05 - 29.00' L
5" Concrete Sidewalk | 12
101+46.72 - 21.68' L
Planter Rail (6") Height Planter | 14
101+76.68 - 29.00' L
5" Colored Concrete Sidewalk Banding | 16
102+06.84 - 29.00' L
5" Colored Concrete Sidewalk Banding |
| | | | | 7
101+28.14 - 34.94' L
5" Concrete Sidewalk | 10
101+30.10 - 17.02' L
Planter Rail (6") Height Planter | | | 16a
100+51.35 - 36.29' L
5" Concrete Sidewalk |



LEGEND (Coordinate with Civil Plans and Specifications)

- A** Standard Gray Concrete Sidewalk
- B** #920 - Charcoal (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk Banding
- C** #238 - Doeskin (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk

- D** #413 - Fox Red (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk

Note:
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- | | | |
|--|--|--|
| 17
101+11.76 - 60.96' R
5" Colored Concrete Sidewalk | 21
101+22.04 - 34.40' R
5" Colored Concrete Sidewalk | 25
101+46.81 - 14.68' R
Planter Rail (6") Height Planter |
| 18
101+28.02 - 60.94' R
5" Colored Concrete Sidewalk | 22
101+28.13 - 25.18' R
5" Colored Concrete Sidewalk | 26
101+62.87 - 25.58' R
Planter Rail (6") Height Planter |
| 19
101+28.03 - 34.44' R
5" Colored Concrete Sidewalk | 23
101+30.12 - 16.49' R
Planter Rail (6") Height Planter | 27
101+62.87 - 29.00' R
Planter Rail (6") Height Planter |
| 20
101+11.77 - 34.48' R
5" Colored Concrete Sidewalk | 24
101+32.01 - 14.68' R
Planter Rail (6") Height Planter | 28
101+46.21 - 28.99' R
Planter Rail (6") Height Planter |
| | | 29
101+46.21 - 25.16' R
Planter Rail (6") Height Planter |
| | | 30
101+87.07 - 29.00' R
5" Colored Concrete Sidewalk Banding |
| | | 31
99+42.35 - 15.87' R
5" Concrete Sidewalk |

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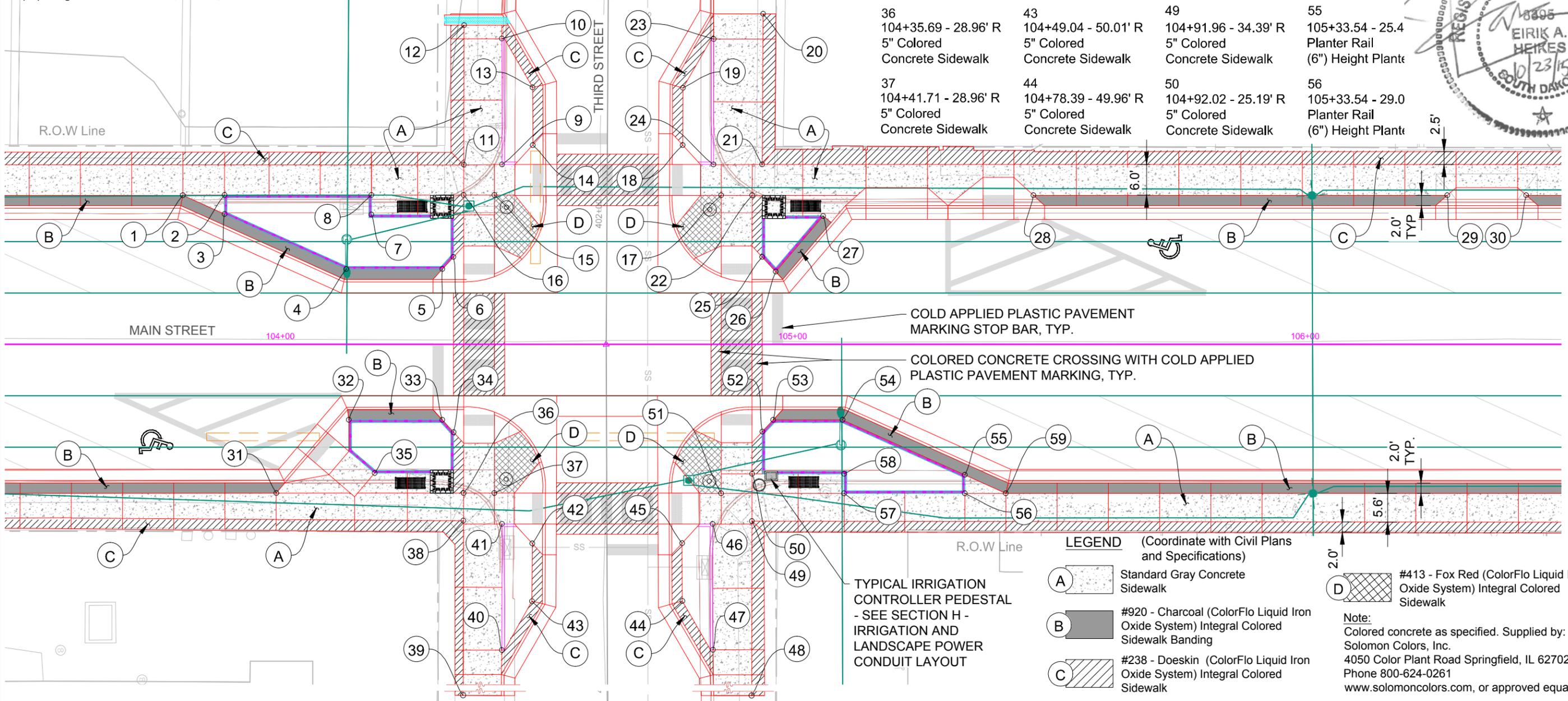
STREETSCAPE LAYOUT PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H7	TOTAL SHEETS H51
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Plotting Date: 10/15/2015

1 103+80.91 - 29.00' L 5" Colored Concrete Sidewalk Banding	6 104+33.73 - 17.01' L Planter Rail (6") Height Planter	11 104+35.75 - 34.94' L 5" Colored Concrete Sidewalk	16 104+35.73 - 29.04' L 5" Colored Concrete Sidewalk	21 104+93.97 - 35.00' L 5" Colored Concrete Sidewalk	26 104+96.62 - 14.14' L Planter Rail (6") Height Planter	31 103+99.14 - 28.95' R 5" Colored Concrete Sidewalk Banding	38 104+35.68 - 34.28' R 5" Colored Concrete Sidewalk	39 104+35.62 - 77.89' R 5" Colored Concrete Sidewalk	45 104+78.35 - 38.71' R 5" Colored Concrete Sidewalk	51 104+85.99 - 29.00' R 5" Colored Concrete Sidewalk	57 105+09.98 - 29.00' R Planter Rail (6") Height Planter
2 103+89.03 - 29.04' L Planter Rail (6") Height Planter	7 104+17.73 - 25.24' L Planter Rail (6") Height Planter	12 104+35.83 - 62.10' L 5" Colored Concrete Sidewalk	17 104+85.99 - 28.99' L 5" Colored Concrete Sidewalk	22 104+92.01 - 29.00' L 5" Colored Concrete Sidewalk	27 105+05.88 - 24.99' L Planter Rail (6") Height Planter	32 104+13.32 - 14.67' R Planter Rail (6") Height Planter	40 104+43.18 - 59.50' R Special Conc. Curb (4") Height Planter	46 104+84.34 - 34.97' R Special Conc. Curb (4") Height Planter	52 104+93.99 - 16.98' R Planter Rail (6") Height Planter	58 105+09.98 - 25.19' R Planter Rail (6") Height Planter	
3 103+89.03 - 25.34' L Planter Rail (6") Height Planter	8 104+17.73 - 29.05' L Planter Rail (6") Height Planter	13 104+49.16 - 50.01' L 5" Colored Concrete Sidewalk	18 104+78.46 - 38.76' L 5" Colored Concrete Sidewalk	23 104+84.52 - 59.43' L Special Conc. Curb (4") Height Planter	28 105+46.89 - 29.00' L 5" Colored Concrete Sidewalk Banding	33 104+31.54 - 14.67' R Planter Rail (6") Height Planter	41 104+43.21 - 34.97' R Special Conc. Curb (4") Height Planter	47 104+84.39 - 59.44' R Special Conc. Curb (4") Height Planter	53 104+96.13 - 14.68' R Planter Rail (6") Height Planter	59 105+41.54 - 29.00' R 5" Colored Concrete Sidewalk Banding	
4 104+12.83 - 14.67' L Planter Rail (6") Height Planter	9 104+43.22 - 35.00' L Special Conc. Curb (4") Height Planter	14 104+49.21 - 38.78' L 5" Colored Concrete Sidewalk	19 104+78.52 - 49.94' L 5" Colored Concrete Sidewalk	24 104+84.49 - 34.99' L Special Conc. Curb (4") Height Planter	29 106+27.65 - 29.00' L 5" Colored Concrete Sidewalk Banding	34 104+33.76 - 17.08' R Planter Rail (6") Height Planter	42 104+49.10 - 38.75' R 5" Colored Concrete Sidewalk	48 104+91.92 - 77.92' R 5" Colored Concrete Sidewalk	54 105+09.65 - 14.6 Planter Rail (6") Height Planter		
5 104+31.56 - 14.67' L Planter Rail (6") Height Planter	10 104+43.17 - 59.49' L Special Conc. Curb (4") Height Planter	15 104+41.71 - 29.04' L 5" Colored Concrete Sidewalk	20 104+94.15 - 64.30' L 5" Colored Concrete Sidewalk	25 104+93.98 - 17.01' L Planter Rail (6") Height Planter	30 106+43.08 - 29.00' L 5" Colored Concrete Sidewalk Banding	35 104+18.36 - 25.06' R Planter Rail (6") Height Planter	43 104+49.04 - 50.01' R 5" Colored Concrete Sidewalk	49 104+91.96 - 34.39' R 5" Colored Concrete Sidewalk	55 105+33.54 - 25.4 Planter Rail (6") Height Planter		
						36 104+35.69 - 28.96' R 5" Colored Concrete Sidewalk	44 104+78.39 - 49.96' R 5" Colored Concrete Sidewalk	50 104+92.02 - 25.19' R 5" Colored Concrete Sidewalk	56 105+33.54 - 29.0 Planter Rail (6") Height Planter		
						37 104+41.71 - 28.96' R 5" Colored Concrete Sidewalk					



LEGEND (Coordinate with Civil Plans and Specifications)

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Phone 800-624-0261
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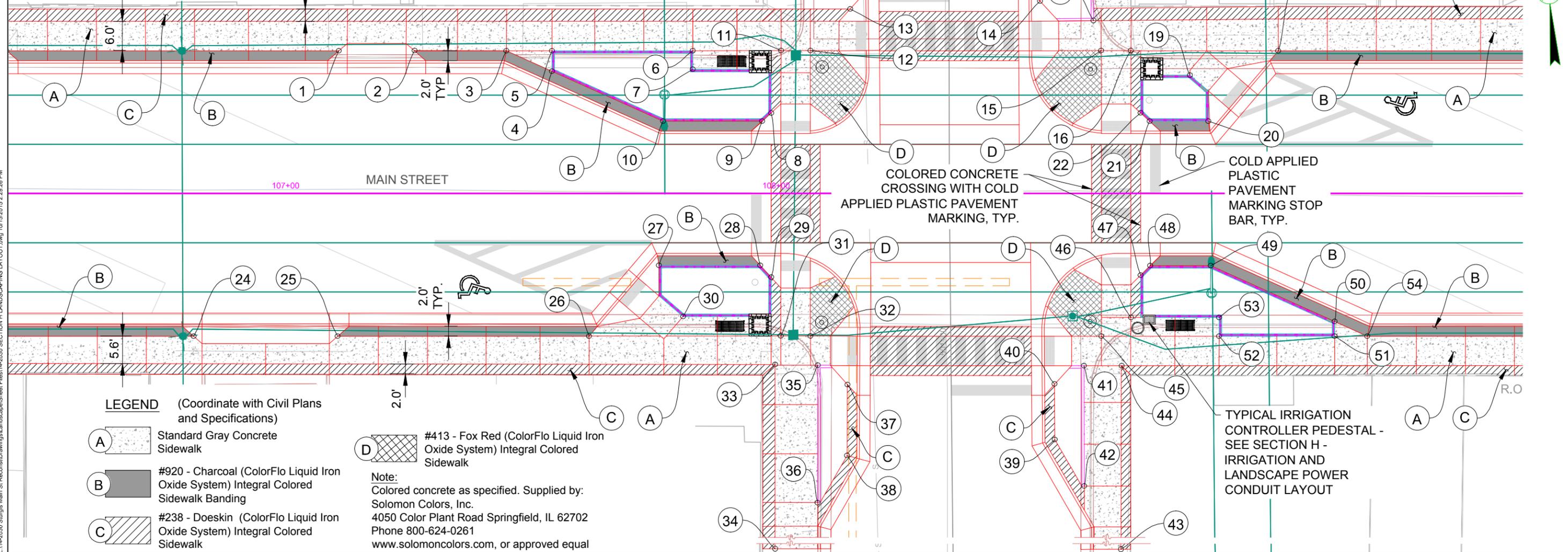
STREETSCAPE LAYOUT PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H8	TOTAL SHEETS H51
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Plotting Date: 10/15/2015

1 107+10.79 - 29.00' L 5" Colored Concrete Sidewalk Banding	8 107+98.90 - 16.33' L Planter Rail (6") Height Planter	15 108+66.19 - 29.04' L 5" Colored Concrete Sidewalk	22 108+74.22 - 16.36' L Planter Rail (6") Height Planter	29 107+98.91 - 17.03' R Planter Rail (6") Height Planter	36 108+08.38 - 62.83' R Special Conc. Curb (4") Height Planter
2 107+26.20 - 29.01' L 5" Colored Concrete Sidewalk Banding	9 107+97.09 - 14.67' L Planter Rail (6") Height Planter	16 108+72.25 - 29.04' L 5" Colored Concrete Sidewalk	23 109+02.28 - 29.00' L 5" Colored Concrete Sidewalk Banding	30 107+80.96 - 25.02' R Planter Rail (6") Height Planter	37 108+14.46 - 38.84' R 5" Colored Concrete Sidewalk
3 107+44.94 - 29.00' L 5" Colored Concrete Sidewalk Banding	10 107+76.87 - 14.67' L Planter Rail (6") Height Planter	17 108+64.67 - 61.87' L Special Conc. Curb (4") Height Planter	24 106+81.17 - 29.00' R 5" Colored Concrete Sidewalk Banding	31 108+00.89 - 28.97' R 5" Colored Concrete Sidewalk	38 108+14.39 - 53.26' R 5" Colored Concrete Sidewalk
4 107+54.23 - 24.82' L Planter Rail (6") Height Planter	11 108+00.92 - 29.03' L 5" Colored Concrete Sidewalk	18 108+64.64 - 35.11' L Special Conc. Curb (4") Height Planter	25 107+10.54 - 29.00' R 5" Colored Concrete Sidewalk Banding	32 108+06.91 - 28.97' R 5" Colored Concrete Sidewalk	39 108+56.73 - 49.98' R 5" Colored Concrete Sidewalk
5 107+54.23 - 29.00' L Planter Rail (6") Height Planter	12 108+06.90 - 29.03' L 5" Colored Concrete Sidewalk	19 108+84.28 - 24.02' L Planter Rail (6") Height Planter	26 107+61.79 - 29.00' R 5" Colored Concrete Sidewalk Banding	33 107+99.70 - 34.76' R 5" Colored Concrete Sidewalk	40 108+56.68 - 38.73' R 5" Colored Concrete Sidewalk
6 107+82.91 - 29.00' L Planter Rail (6") Height Planter	13 108+15.01 - 37.50' L 5" Colored Concrete Sidewalk	20 108+88.03 - 14.67' L Planter Rail (6") Height Planter	27 107+76.02 - 14.61' R Planter Rail (6") Height Planter	34 107+99.74 - 78.33' R 5" Colored Concrete Sidewalk	41 108+62.67 - 34.99' R Special Conc. Curb (4") Height Planter
7 107+82.91 - 25.24' L Planter Rail (6") Height Planter	14 108+53.73 - 39.08' L 5" Colored Concrete Sidewalk	21 108+76.05 - 14.67' L Planter Rail (6") Height Planter	28 107+96.70 - 14.62' R Planter Rail (6") Height Planter	35 108+08.40 - 34.93' R Special Conc. Curb (4") Height Planter	42 108+62.72 - 59.46' R Special Conc. Curb (4") Height Planter



LEGEND (Coordinate with Civil Plans and Specifications)

A	Standard Gray Concrete Sidewalk
B	#920 - Charcoal (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk Banding
C	#238 - Doeskin (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk

D #413 - Fox Red (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk

Note:
Colored concrete as specified. Supplied by:
Solomon Colors, Inc.
4050 Color Plant Road Springfield, IL 62702
Phone 800-624-0261
www.solomoncolors.com, or approved equal

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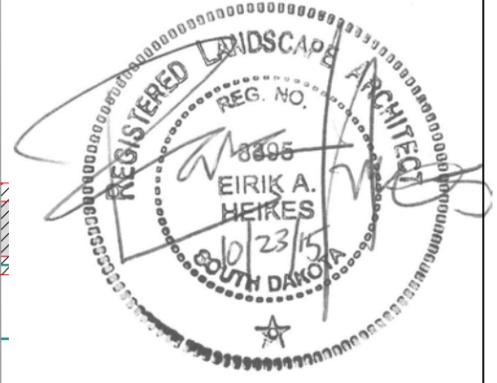
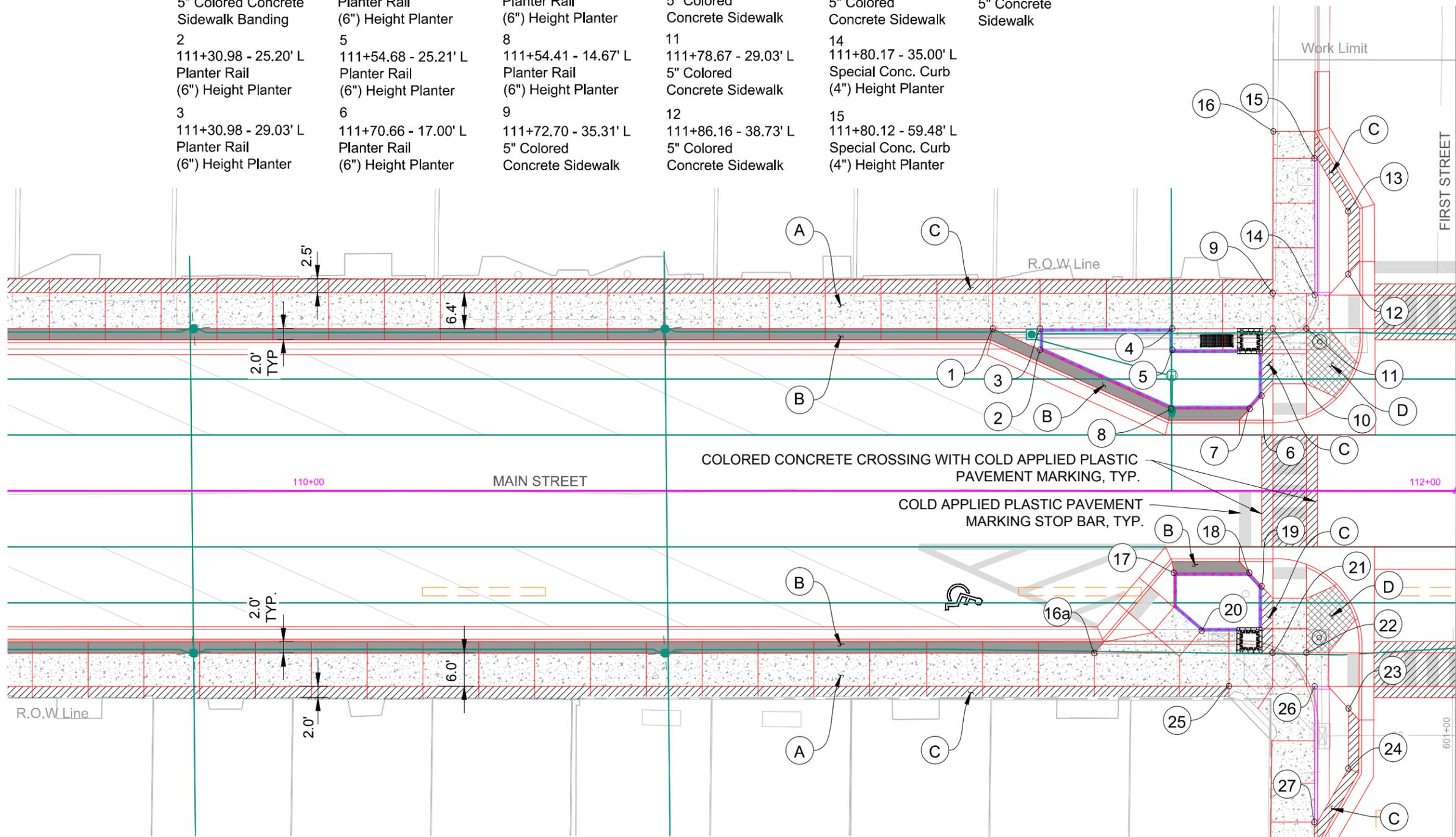
STREETSCAPE LAYOUT PLAN

FOR BIDDING PURPOSES ONLY



STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H9	TOTAL SHEETS H51
Plotting Date: 10/15/2015			

1 111+22.51 - 29.00' L 5" Colored Concrete Sidewalk Banding	4 111+54.68 - 29.03' L Planter Rail (6") Height Planter	7 111+68.51 - 14.67' L Planter Rail (6") Height Planter	10 111+72.69 - 29.03' L 5" Colored Concrete Sidewalk	13 111+86.11 - 50.00' L 5" Colored Concrete Sidewalk	16 111+72.79 - 64.27' L 5" Concrete Sidewalk
2 111+30.98 - 25.20' L Planter Rail (6") Height Planter	5 111+54.68 - 25.21' L Planter Rail (6") Height Planter	8 111+54.41 - 14.67' L Planter Rail (6") Height Planter	11 111+78.67 - 29.03' L 5" Colored Concrete Sidewalk	14 111+80.17 - 35.00' L Special Conc. Curb (4") Height Planter	
3 111+30.98 - 29.03' L Planter Rail (6") Height Planter	6 111+70.66 - 17.00' L Planter Rail (6") Height Planter	9 111+72.70 - 35.31' L 5" Colored Concrete Sidewalk	12 111+86.16 - 38.73' L 5" Colored Concrete Sidewalk	15 111+80.12 - 59.48' L Special Conc. Curb (4") Height Planter	



16a 111+40.69 - 29.00' R 5" Colored Concrete Sidewalk Banding	19 111+70.67 - 17.07' R Planter Rail (6") Height Planter	22 111+78.67 - 28.97' R 5" Colored Concrete Sidewalk	25 111+64.80 - 34.90' R 5" Colored Concrete Sidewalk	28 111+72.32 - 78.78' R 5" Concrete Sidewalk
17 111+54.93 - 14.67' R Planter Rail (6") Height Planter	20 111+59.91 - 25.06' R Planter Rail (6") Height Planter	23 111+86.22 - 38.91' R 5" Colored Concrete Sidewalk	26 111+80.17 - 34.97' R Special Conc. Curb (4") Height Planter	
18 111+68.45 - 14.67' R Planter Rail (6") Height Planter	21 111+72.65 - 28.98' R 5" Colored Concrete Sidewalk	24 111+86.17 - 49.66' R 5" Colored Concrete Sidewalk	27 111+80.14 - 59.23' R Special Conc. Curb (4") Height Planter	

LEGEND (Coordinate with Civil Plans and Specifications)

A	Standard Gray Concrete Sidewalk
B	#920 - Charcoal (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk Banding
C	#238 - Doeskin (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk
D	#413 - Fox Red (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk

Note:
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Solomon Colors, Inc.
4050 Color Plant Road Springfield, IL 62702
Phone 800-624-0261
www.solomoncolors.com, or approved equal

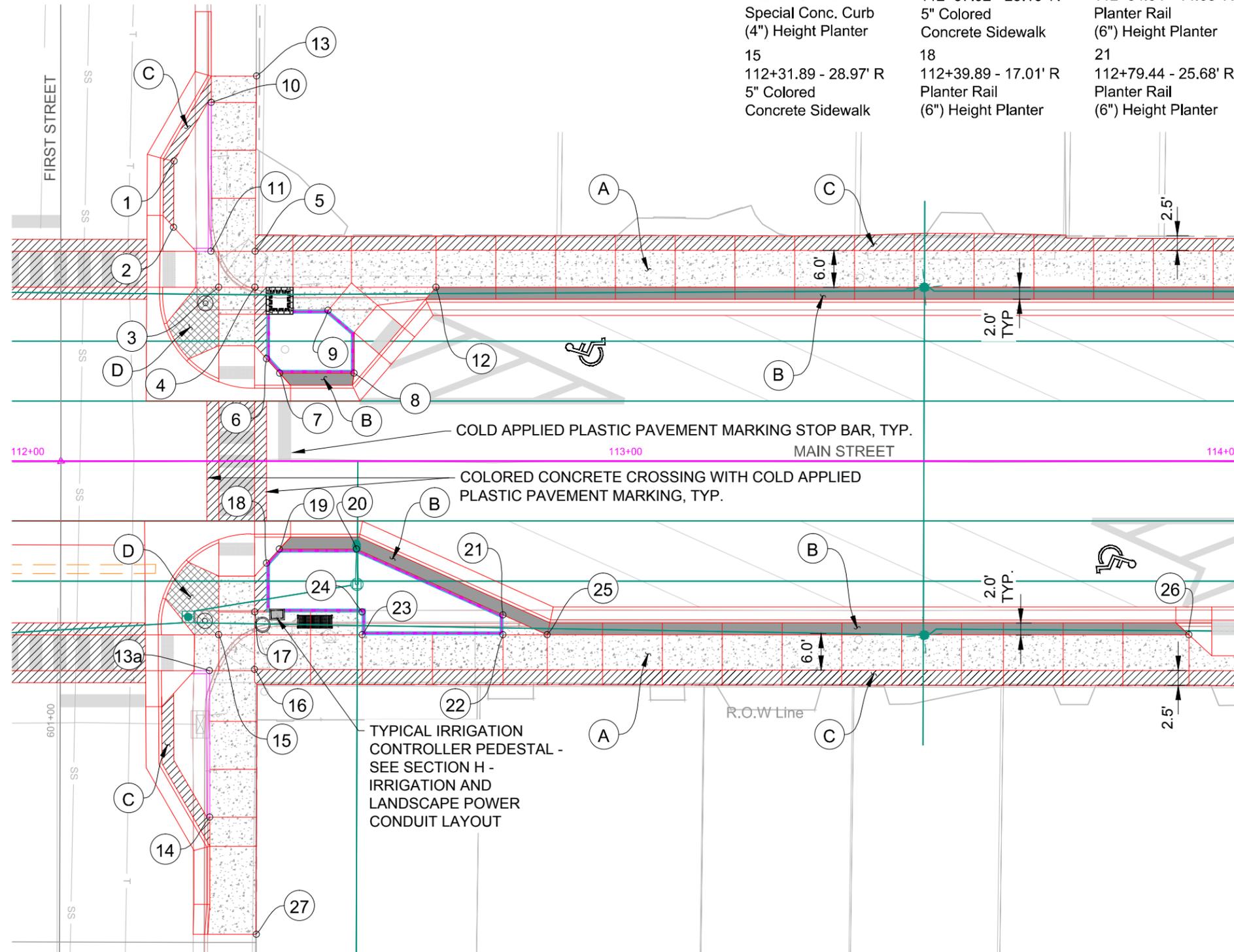
STREETSCAPE LAYOUT PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN INC. Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H10	H51

1 112+24.42 - 50.04' L 5" Colored Concrete Sidewalk	4 112+37.95 - 29.00' L 5" Colored Concrete Sidewalk	7 112+42.07 - 14.67' L Planter Rail (6") Height Planter	10 112+30.62 - 59.88' L Special Conc. Curb (4") Height Planter	13 112+38.21 - 64.27' L 5" Concrete Sidewalk
2 112+24.36 - 39.02' L 5" Colored Concrete Sidewalk	5 112+37.99 - 35.00' L 5" Colored Concrete Sidewalk	8 112+54.53 - 14.67' L Planter Rail (6") Height Planter	11 112+30.59 - 35.01' L Special Conc. Curb (4") Height Planter	
3 112+31.89 - 29.00' L 5" Colored Concrete Sidewalk	6 112+39.88 - 17.07' L Planter Rail (6") Height Planter	9 112+50.18 - 25.17' L Planter Rail (6") Height Planter	12 112+68.22 - 29.01' L 5" Colored Concrete Sidewalk Banding	

13a 112+30.34 - 34.97' R Special Conc. Curb (4") Height Planter	16 112+37.88 - 34.77' R 5" Colored Concrete Sidewalk	19 112+42.04 - 14.68' R Planter Rail (6") Height Planter	22 112+79.44 - 28.97' R Planter Rail (6") Height Planter	25 112+86.84 - 29.00' R 5" Colored Concrete Sidewalk Banding
14 112+30.39 - 59.41' R Special Conc. Curb (4") Height Planter	17 112+37.92 - 25.16' R 5" Colored Concrete Sidewalk	20 112+54.94 - 14.68' R Planter Rail (6") Height Planter	23 112+55.88 - 28.97' R Planter Rail (6") Height Planter	26 113+94.19 - 29.00' R 5" Colored Concrete Sidewalk Banding
15 112+31.89 - 28.97' R 5" Colored Concrete Sidewalk	18 112+39.89 - 17.01' R Planter Rail (6") Height Planter	21 112+79.44 - 25.68' R Planter Rail (6") Height Planter	24 112+55.88 - 25.16' R Planter Rail (6") Height Planter	27 112+38.18 - 78.98' R 5" Concrete Sidewalk



LEGEND (Coordinate with Civil Plans and Specifications)

- A** Standard Gray Concrete Sidewalk
- B** #920 - Charcoal (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk Banding
- C** #238 - Doeskin (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk
- D** #413 - Fox Red (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk

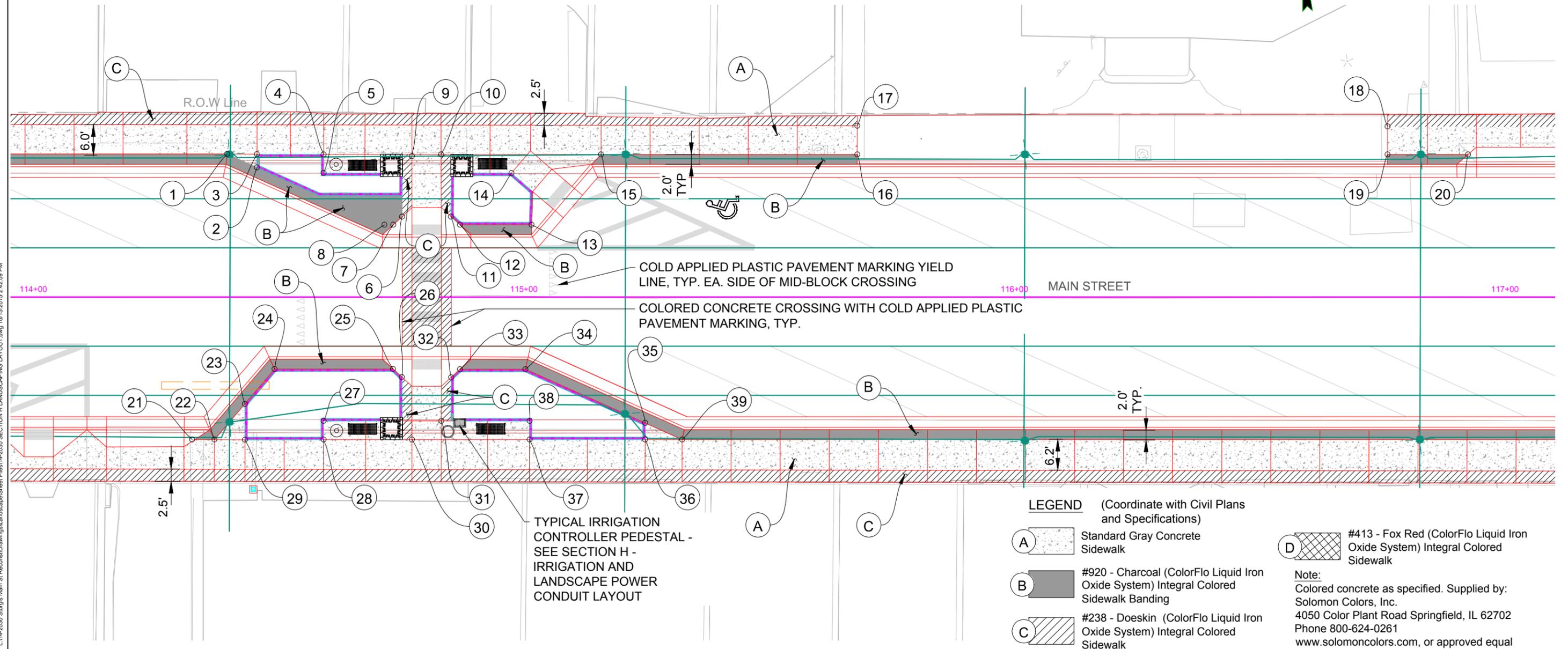
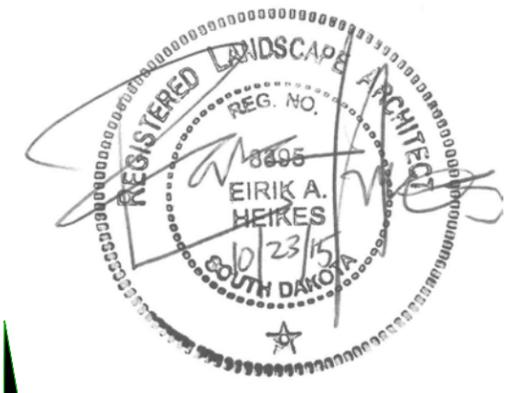
Note:
Colored concrete as specified. Supplied by:
Solomon Colors, Inc.
4050 Color Plant Road Springfield, IL 62702
Phone 800-624-0261
www.solomoncolors.com, or approved equal

STREETSCAPE LAYOUT PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN LLC Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H11	H51

1 114+39.45 - 29.08' L 5" Colored Concrete Sidewalk Banding	6 114+75.10 - 16.33' L Planter Rail (6") Height Planter	11 114+85.08 - 16.35' L Planter Rail (6") Height Planter	16 115+67.89 - 29.00' L 5" Colored Concrete Sidewalk Banding	21 114+32.33 - 29.00' R 5" Colored Concrete Sidewalk Banding	26 114+75.08 - 16.31' R Planter Rail (6") Height Planter	31 114+83.13 - 25.19' R 5" Colored Concrete Sidewalk	36 115+24.65 - 29.00' R Planter Rail (6") Height Planter
2 114+45.53 - 26.35' L Planter Rail (6") Height Planter	7 114+73.30 - 14.68' L Planter Rail (6") Height Planter	12 114+86.92 - 14.67' L Planter Rail (6") Height Planter	17 115+67.90 - 34.86' L 5" Colored Concrete Sidewalk	22 114+36.86 - 29.00' R 5" Colored Concrete Sidewalk Banding	27 114+59.09 - 25.21' R Planter Rail (6") Height Planter	32 114+85.11 - 16.33' R Planter Rail (6") Height Planter	37 115+01.09 - 29.00' R Planter Rail (6") Height Planter
3 114+45.53 - 29.02' L Planter Rail (6") Height Planter	8 114+71.51 - 14.68' L Planter Rail (6") Height Planter	13 115+01.53 - 14.67' L Planter Rail (6") Height Planter	18 116+75.99 - 34.69' L 5" Colored Concrete Sidewalk	23 114+43.06 - 21.74' R Planter Rail (6") Height Planter	28 114+59.09 - 29.03' R Planter Rail (6") Height Planter	33 114+86.91 - 14.68' R Planter Rail (6") Height Planter	38 115+01.09 - 25.19' R Planter Rail (6") Height Planter
4 114+59.11 - 29.00' L Planter Rail (6") Height Planter	9 114+77.12 - 28.63' L 5" Colored Concrete Sidewalk	14 114+97.39 - 25.17' L Planter Rail (6") Height Planter	19 116+75.99 - 29.00' L 5" Colored Concrete Sidewalk Banding	24 114+49.10 - 14.67' R Planter Rail (6") Height Planter	29 114+43.06 - 29.04' R Planter Rail (6") Height Planter	34 115+00.27 - 14.68' R Planter Rail (6") Height Planter	39 115+32.19 - 29.00' R 5" Colored Concrete Sidewalk Banding
5 114+59.11 - 25.22' L Planter Rail (6") Height Planter	10 114+83.05 - 29.00' L 5" Colored Concrete Sidewalk	15 115+15.67 - 29.00' L 5" Colored Concrete Sidewalk Banding	20 116+92.41 - 29.00' L 5" Colored Concrete Sidewalk Banding	25 114+73.28 - 14.67' R Planter Rail (6") Height Planter	30 114+77.10 - 29.03' R 5" Colored Concrete Sidewalk	35 115+24.65 - 25.62' R Planter Rail (6") Height Planter	



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STREETSCAPE LAYOUT PLAN

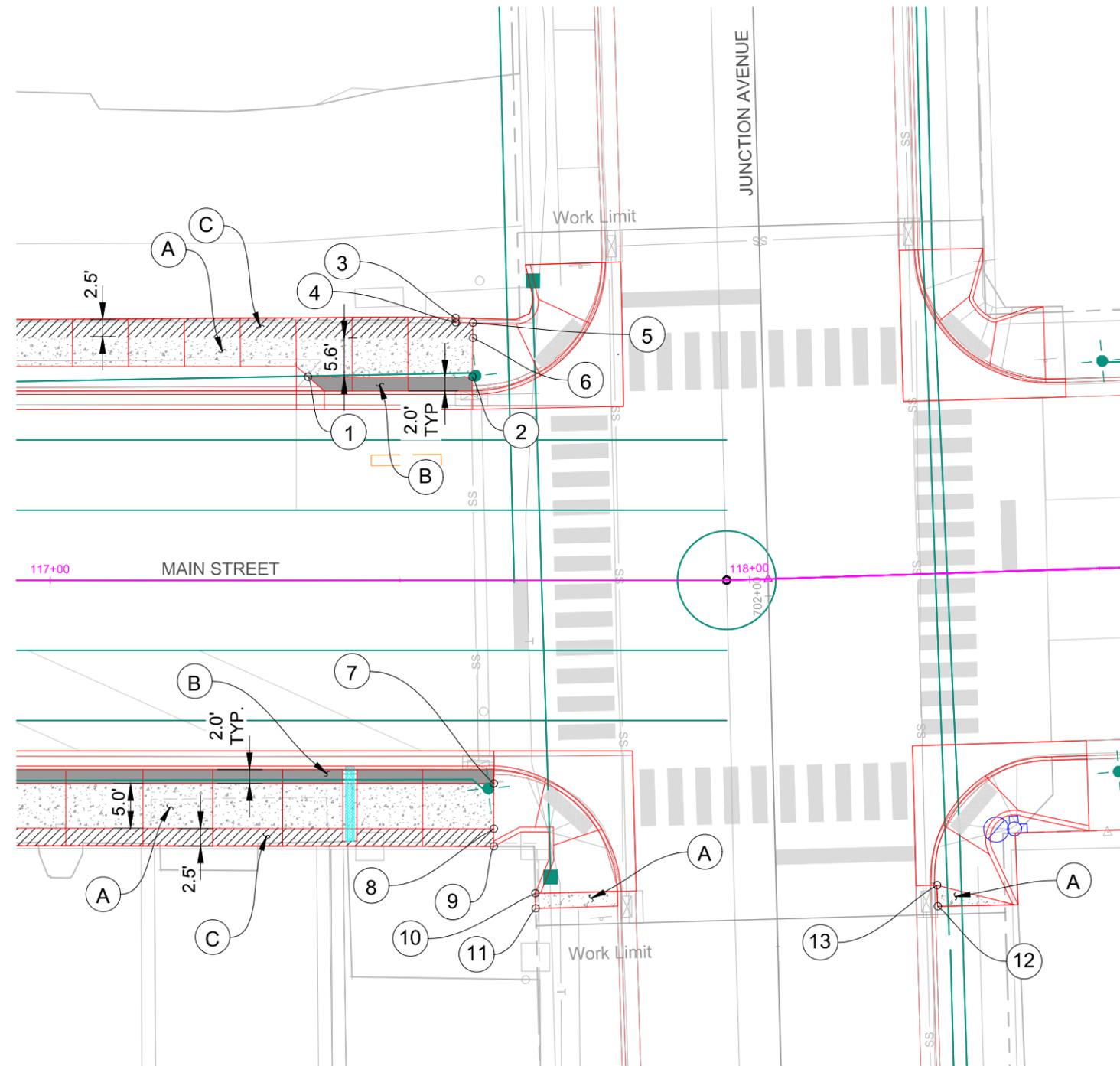
FOR BIDDING PURPOSES ONLY



STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H12	TOTAL SHEETS H51
Plotting Date: 10/16/2015			

1 117+36.84 - 29.00' L 5" Colored Concrete Sidewalk Banding	4 117+57.91 - 36.75' L 5" Colored Concrete Sidewalk	7 117+63.40 - 29.00' R 5" Colored Concrete Sidewalk Banding
2 117+60.35 - 29.01' L 5" Colored Concrete Sidewalk Banding	5 117+60.42 - 36.68' L 5" Colored Concrete Sidewalk	8 117+63.39 - 35.44' R 5" Colored Concrete Sidewalk
3 117+57.92 - 37.42' L 5" Colored Concrete Sidewalk	6 117+60.41 - 34.57' L 5" Colored Concrete Sidewalk	

9 117+63.39 - 37.94' R 5" Colored Concrete Sidewalk	12 118+25.35 - 47.42' R 5" Concrete Sidewalk
10 117+69.33 - 44.65' R 5" Concrete Sidewalk	13 118+25.38 - 44.41' R 5" Concrete Sidewalk
11 117+69.39 - 46.79' R 5" Concrete Sidewalk	



LEGEND (Coordinate with Civil Plans and Specifications)

- A** Standard Gray Concrete Sidewalk
- B** #920 - Charcoal (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk Banding
- C** #238 - Doeskin (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk
- D** #413 - Fox Red (ColorFlo Liquid Iron Oxide System) Integral Colored Sidewalk

Note:
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Solomon Colors, Inc.
4050 Color Plant Road Springfield, IL 62702
Phone 800-624-0261
www.solomoncolors.com, or approved equal

SITE FURNISHINGS LAYOUT PLAN

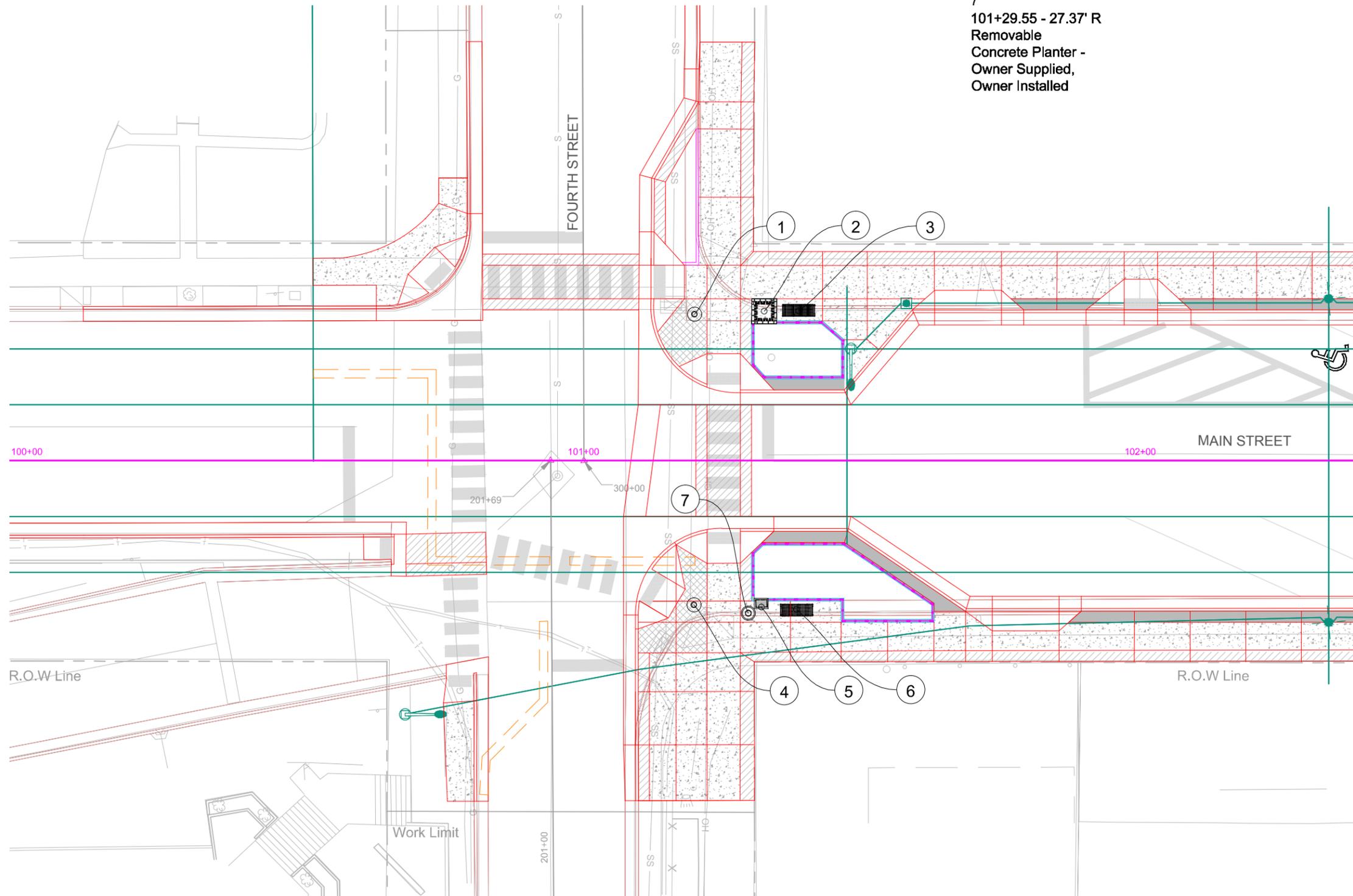
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STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H13	TOTAL SHEETS H51
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Plotting Date: 10/15/2015

- | | | |
|---|--|---|
| 1
101+19.84 - 26.20' L
Trash Container -
Owner Supplied,
Owner Installed | 3
101+38.53 - 26.79' L
Bench -
Owner Supplied,
Owner Installed | 5
101+31.89 - 26.26' R
Door Centerline of
Irrigation Controller
Pedestal - See Section H -
Power Conduit Layouts |
| 2
101+32.37 - 26.76' L
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 4
101+19.74 - 25.89' R
Trash Container -
Owner Supplied,
Owner Installed | 6
101+38.18 - 26.66' R
Bench -
Owner Supplied,
Owner Installed |
| | | 7
101+29.55 - 27.37' R
Removable
Concrete Planter -
Owner Supplied,
Owner Installed |



SITE FURNISHINGS LAYOUT PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN INC.	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H14	H51

Plotting Date: 10/15/2015

1
104+25.65 - 26.72' L
Bench -
Owner Supplied,
Owner Installed

3
104+44.07 - 26.67' L
Trash Container -
Owner Supplied,
Owner Installed

5
104+96.25 - 26.75' L
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed

7
104+25.29 - 26.85' R
Bench -
Owner Supplied,
Owner Installed

9
104+43.97 - 26.26' R
Trash Container -
Owner Supplied,
Owner Installed

11
104+95.77 - 26.27' R
Door Centerline of
Irrigation Controller
Pedestal - See Section H -
Power Conduit Layouts

13
104+93.43 - 27.38' R
Removable
Concrete Planter -
Owner Supplied,
Owner Installed

2
104+31.47 - 26.79' L
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed

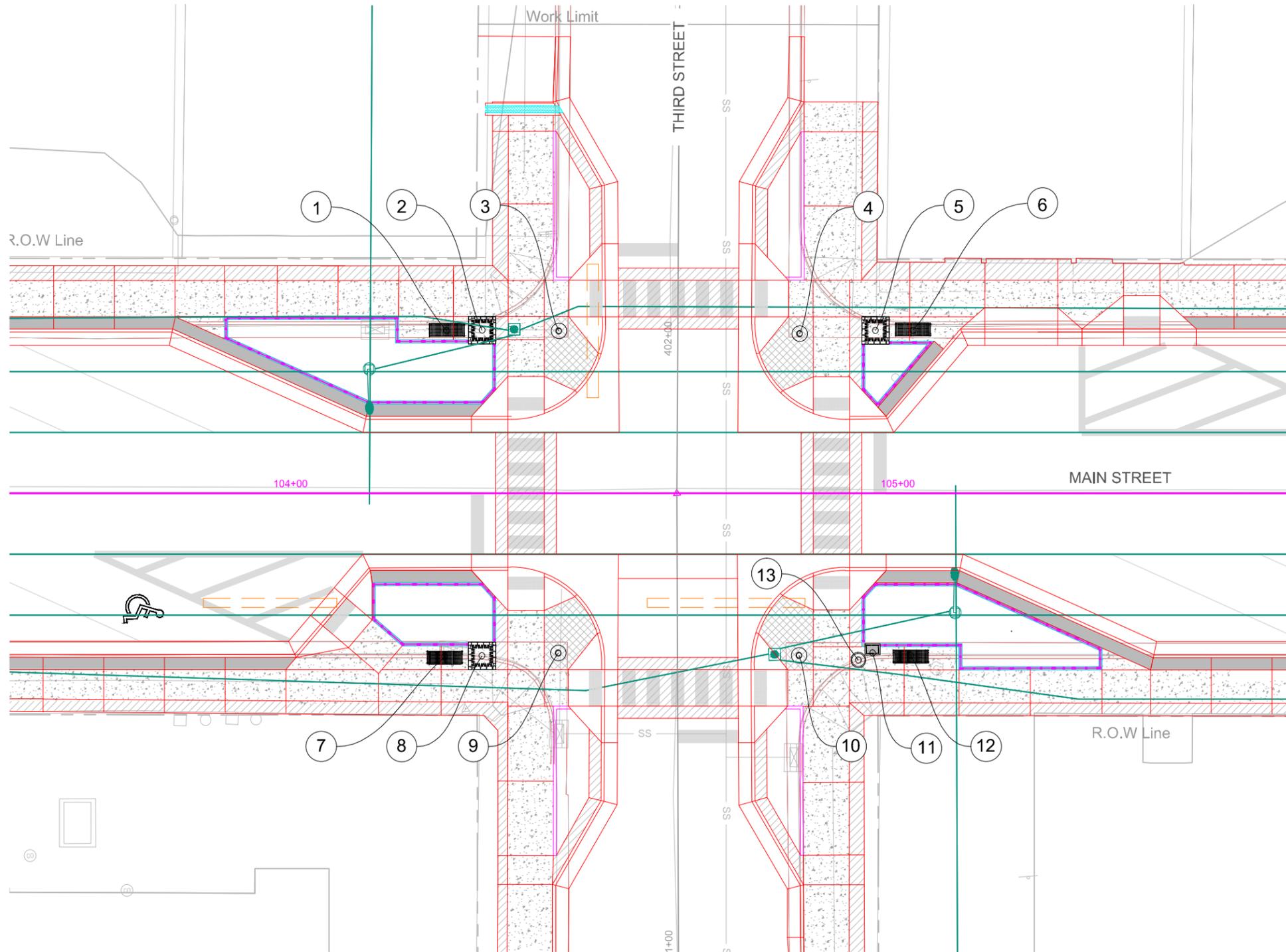
4
104+83.73 - 26.19' L
Trash Container -
Owner Supplied,
Owner Installed

6
105+02.41 - 26.78' L
Bench -
Owner Supplied,
Owner Installed

8
104+31.45 - 26.70' R
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed

10
104+83.63 - 26.63' R
Trash Container -
Owner Supplied,
Owner Installed

12
105+02.05 - 26.67' R
Bench -
Owner Supplied,
Owner Installed

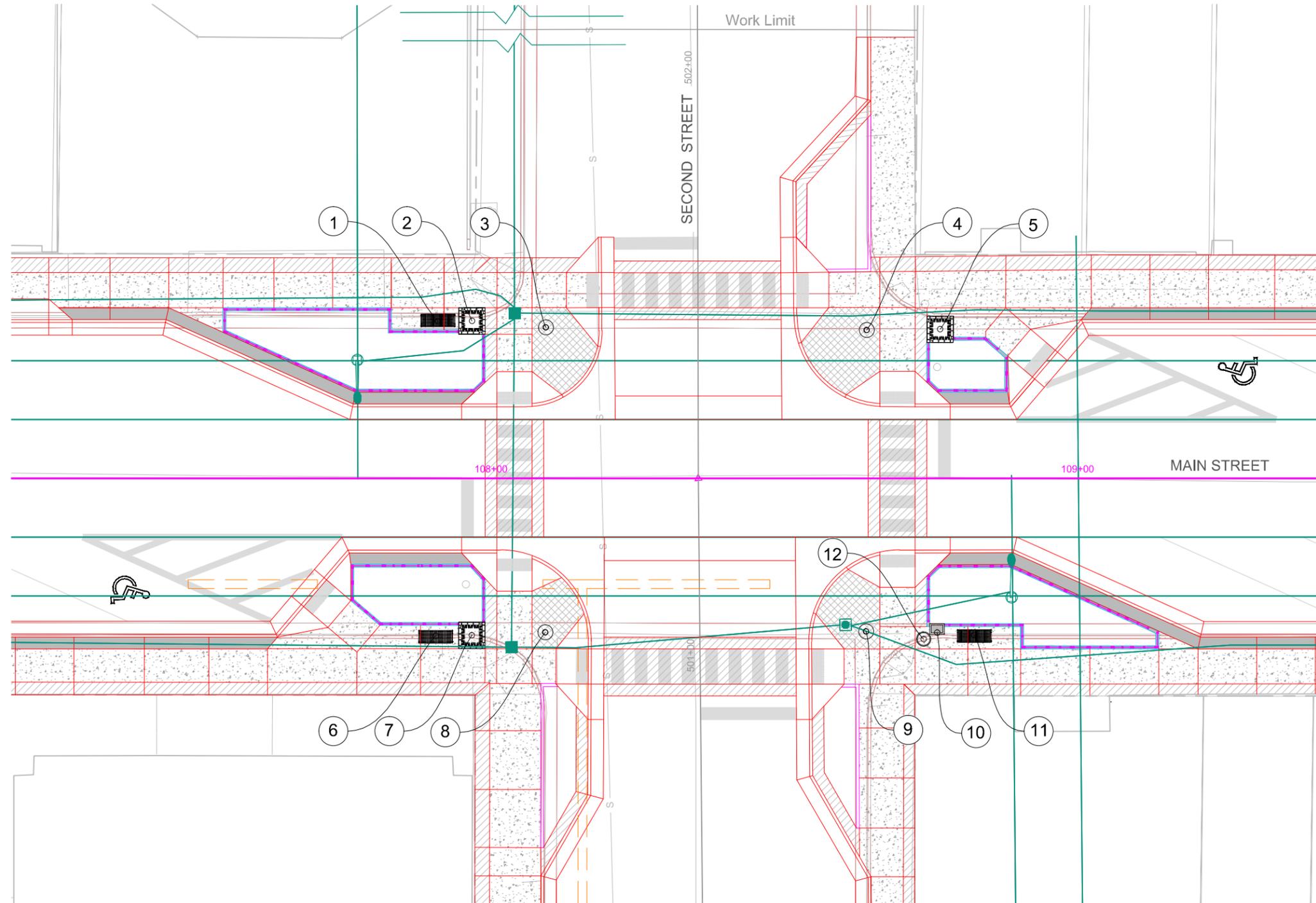


SITE FURNISHINGS LAYOUT PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN INC. Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H15	H51

- | | | | | | |
|---|--|---|---|--|---|
| 1
107+90.84 - 26.72' L
Bench -
Owner Supplied,
Owner Installed | 3
108+09.27 - 25.66' L
Trash Container -
Owner Supplied,
Owner Installed | 5
108+76.49 - 25.35' L
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 7
107+96.64 - 26.72' R
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 9
108+63.86 - 26.05' R
Trash Container -
Owner Supplied,
Owner Installed | 11
108+82.29 - 26.67' R
Bench -
Owner Supplied,
Owner Installed |
| 2
107+96.68 - 26.77' L
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 4
108+63.96 - 25.22' L
Trash Container -
Owner Supplied,
Owner Installed | 6
107+90.48 - 26.81' R
Bench -
Owner Supplied,
Owner Installed | 8
108+09.17 - 26.22' R
Trash Container -
Owner Supplied,
Owner Installed | 10
108+76.01 - 26.27' R
Door Centerline of
Irrigation Controller
Pedestal - See Section H -
Power Conduit Layouts | 12
108+73.68 - 27.38' R
Removable
Concrete Planter -
Owner Supplied,
Owner Installed |



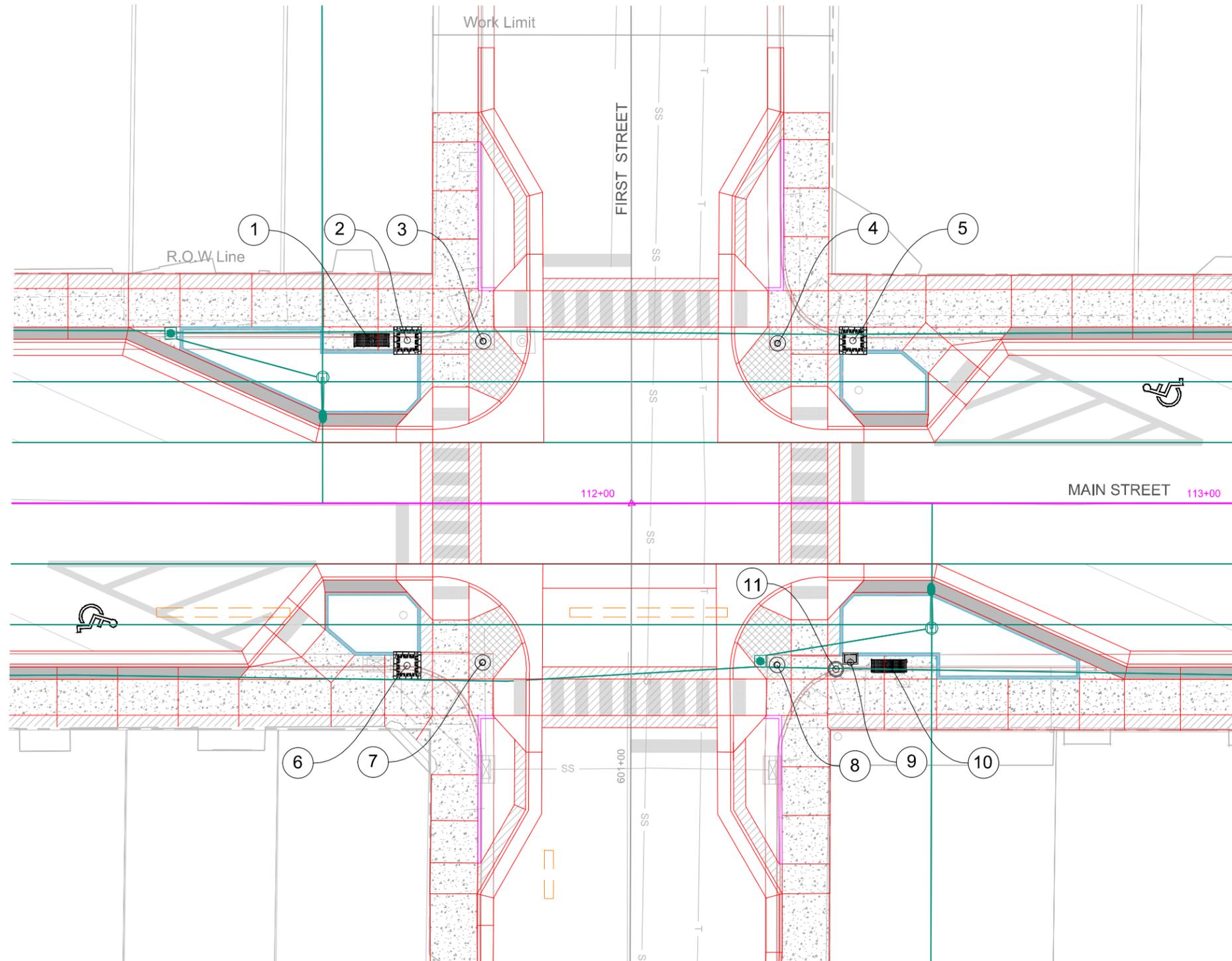
SITE FURNISHINGS LAYOUT PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN INC.	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H16	H51

Plotting Date: 10/15/2015

- | | | | | | |
|---|--|---|--|---|---|
| 1
111+62.60 - 26.70' L
Bench -
Owner Supplied,
Owner Installed | 3
111+81.03 - 26.66' L
Trash Container -
Owner Supplied,
Owner Installed | 5
112+42.07 - 26.77' L
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 7
111+80.93 - 26.26' R
Trash Container -
Owner Supplied,
Owner Installed | 9
112+41.67 - 26.25' R
Door Centerline of
Irrigation Controller
Pedestal - See Section H -
Power Conduit Layouts | 11
112+39.26 - 27.35' R
Removable
Concrete Planter -
Owner Supplied,
Owner Installed |
| 2
111+68.52 - 26.77' L
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 4
112+29.63 - 26.29' L
Trash Container -
Owner Supplied,
Owner Installed | 6
111+68.49 - 26.72' R
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 8
112+29.53 - 26.67' R
Trash Container -
Owner Supplied,
Owner Installed | 10
112+47.95 - 26.64' R
Bench -
Owner Supplied,
Owner Installed | |



SITE FURNISHINGS LAYOUT PLAN

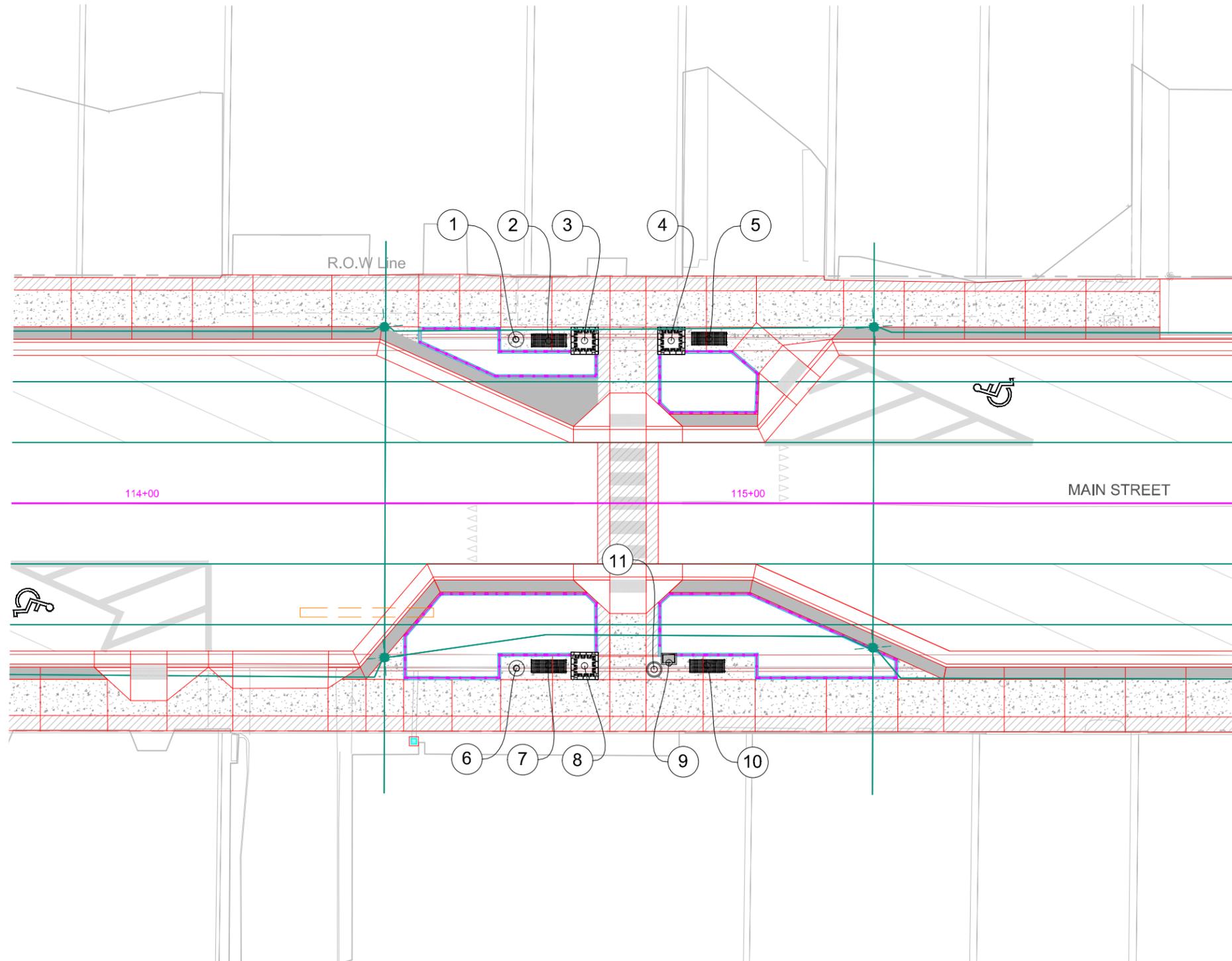
FOR BIDDING PURPOSES ONLY

FOURFRONT
DESIGN INC.

STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H17	TOTAL SHEETS H51
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Plotting Date: 10/15/2015

- | | | | | | |
|--|---|--|---|---|---|
| 1
114+61.60 - 26.92' L
Trash Container -
Owner Supplied,
Owner Installed | 3
114+72.96 - 26.77' L
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 5
114+93.44 - 26.98' L
Bench -
Owner Supplied,
Owner Installed | 7
114+67.02 - 26.70' R
Bench -
Owner Supplied,
Owner Installed | 9
114+86.89 - 26.27' R
Door Centerline of
Irrigation Controller
Pedestal - See Section H -
Power Conduit Layouts | 11
114+84.47 - 27.38' R
Removable
Concrete Planter -
Owner Supplied,
Owner Installed |
| 2
114+67.04 - 26.67' L
Bench -
Owner Supplied,
Owner Installed | 4
114+87.27 - 26.75' L
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 6
114+61.70 - 27.20' R
Trash Container -
Owner Supplied,
Owner Installed | 8
114+72.94 - 26.77' R
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 10
114+93.17 - 26.68' R
Bench -
Owner Supplied,
Owner Installed | |



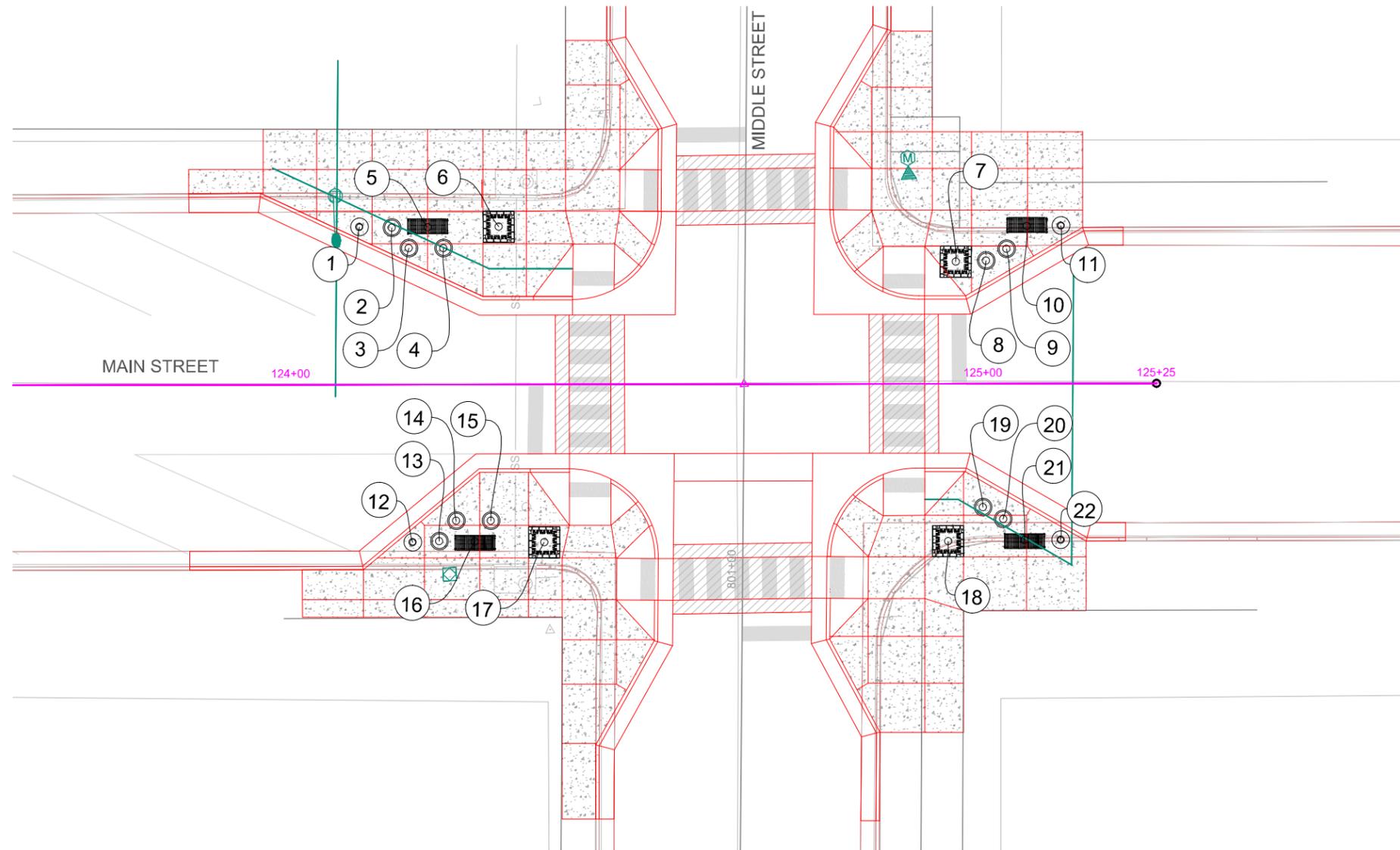
SITE FURNISHINGS LAYOUT PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H18	H51

Plotting Date: 10/15/2015

- | | | | | | |
|--|--|---|---|--|---|
| 1
124+09.90 - 22.73' L
Trash Container -
Owner Supplied,
Owner Installed | 3
124+17.02 - 19.66' L
Removable
Concrete Planter -
Owner Supplied,
Owner Installed | 5
124+19.75 - 22.66' L
Bench -
Owner Supplied,
Owner Installed | 7
124+96.08 - 17.59' L
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 9
125+03.34 - 19.41' L
Removable
Concrete Planter -
Owner Supplied,
Owner Installed | 11
125+11.21 - 22.75' L
Trash Container -
Owner Supplied,
Owner Installed |
| 2
124+14.59 - 22.60' L
Removable
Concrete Planter -
Owner Supplied,
Owner Installed | 4
124+22.03 - 19.66' L
Removable
Concrete Planter -
Owner Supplied,
Owner Installed | 6
124+30.01 - 22.72' L
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 8
125+00.39 - 17.73' L
Removable
Concrete Planter -
Owner Supplied,
Owner Installed | 10
125+06.30 - 22.70' L
Bench -
Owner Supplied,
Owner Installed | |

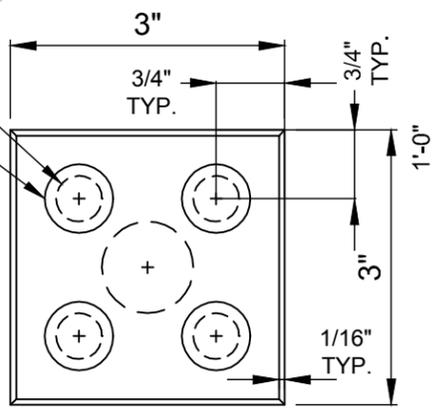
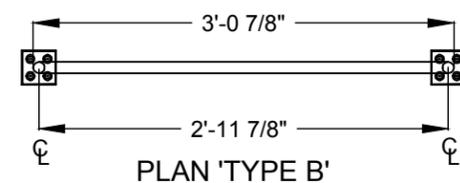
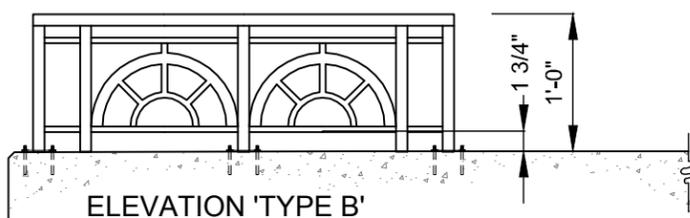
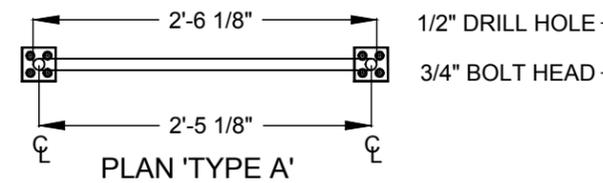
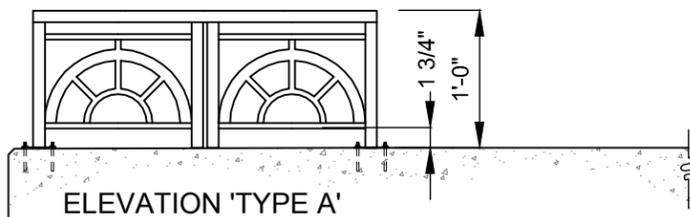


- | | | | | | |
|---|---|--|--|---|---|
| 12
124+17.49 - 22.72' R
Trash Container -
Owner Supplied,
Owner Installed | 14
124+23.80 - 19.67' R
Removable
Concrete Planter -
Owner Supplied,
Owner Installed | 16
124+26.52 - 22.67' R
Bench -
Owner Supplied,
Owner Installed | 18
124+94.87 - 22.70' R
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 20
125+02.83 - 19.53' R
Removable
Concrete Planter -
Owner Supplied,
Owner Installed | 22
125+11.12 - 22.53' R
Trash Container -
Owner Supplied,
Owner Installed |
| 13
124+21.35 - 22.60' R
Removable
Concrete Planter -
Owner Supplied,
Owner Installed | 15
124+28.81 - 19.68' R
Removable
Concrete Planter -
Owner Supplied,
Owner Installed | 17
124+36.52 - 22.76' R
Segmental Block
Sculpture Plinth -
Owner Supplied,
Contractor Installed | 19
124+99.88 - 17.83' R
Removable
Concrete Planter -
Owner Supplied,
Owner Installed | 21
125+05.89 - 22.56' R
Bench -
Owner Supplied,
Owner Installed | |

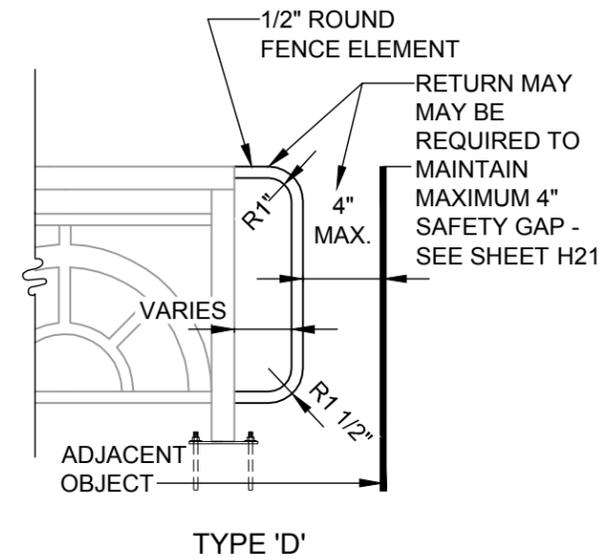
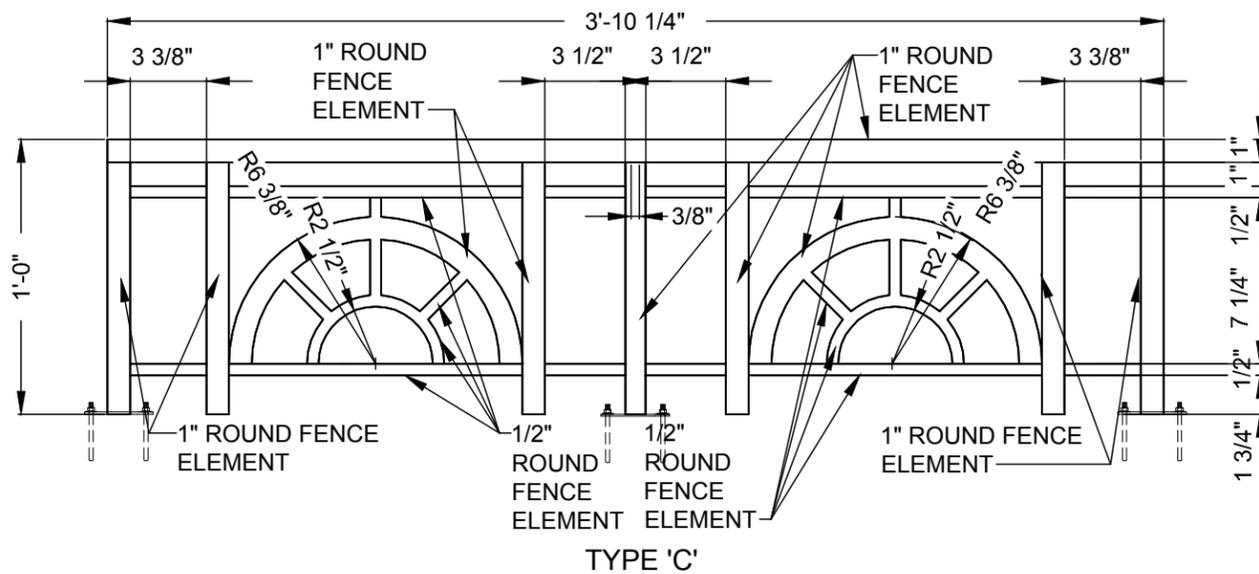
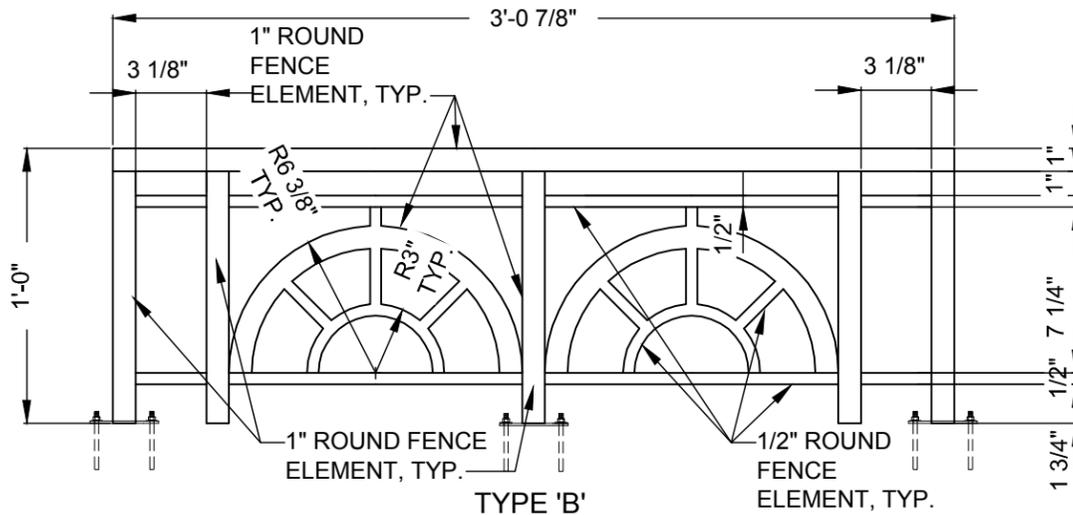
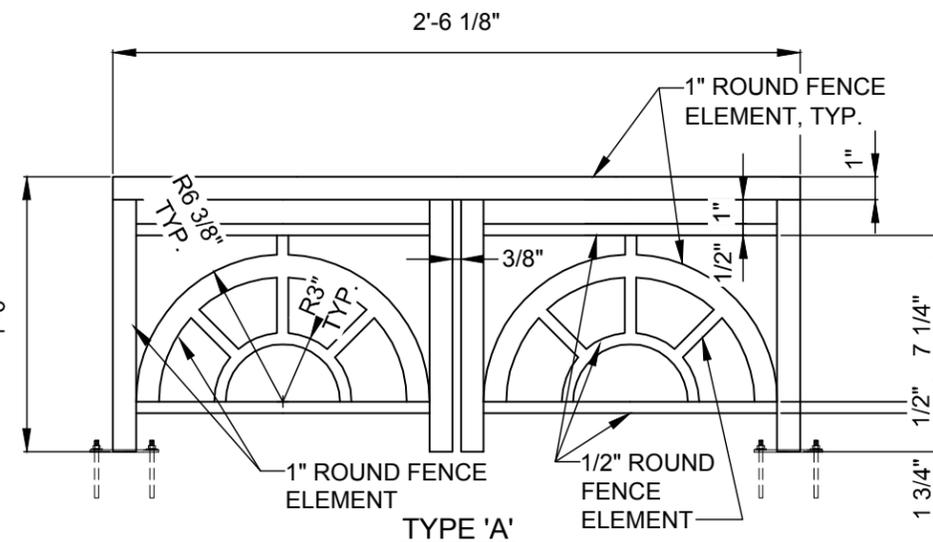
STREETSCAPE DETAIL DRAWINGS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN LLC Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H20	H51



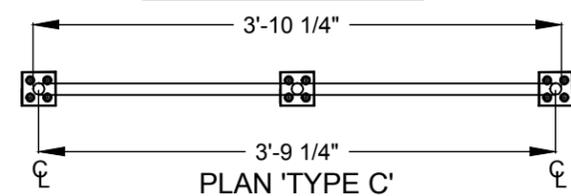
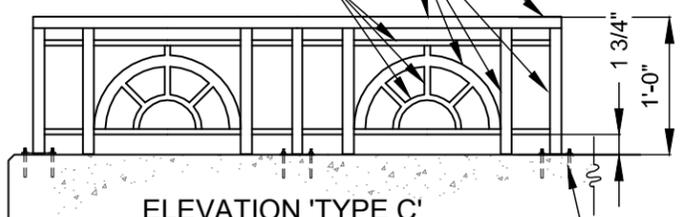
ENLARGEMENT



- NOTES:
1. SURFACE MOUNTED PER SPECIFICATIONS.
 2. SECURE WITH HEXAGON HEADED ZINC PLATED 1/2" FASTENERS, 2 1/2" LENGTH.
 3. USE LEVELING PLATES GALVANIZED WHERE NEEDED, AS SPECIFIED.
 4. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY OWNER'S REPRESENTATIVE, OF DECORATIVE FENCE TYPES (3) AND (1) CUSTOM FIT RETURN WHICH VARIES.
 5. ALL CORNERS OF RAILS TO HAVE SMOOTH, BEVELED EDGES

12" HEIGHT POWDER COATED EXTERIOR ALUMINUM OR STEEL PIPE AND TUBE PRE-FABRICATED PANELS, AS SPECIFIED.

1" ROUND POST
1/2" INTERIOR, TYPICAL



3" SQ. POST BASE PLATE W/ BEVELED EDGES, SEE ENLARGEMENT FOR BOLT PATTERN

1 12" HEIGHT PLANTER RAIL

2 PLANTER RAIL PANEL SIZES

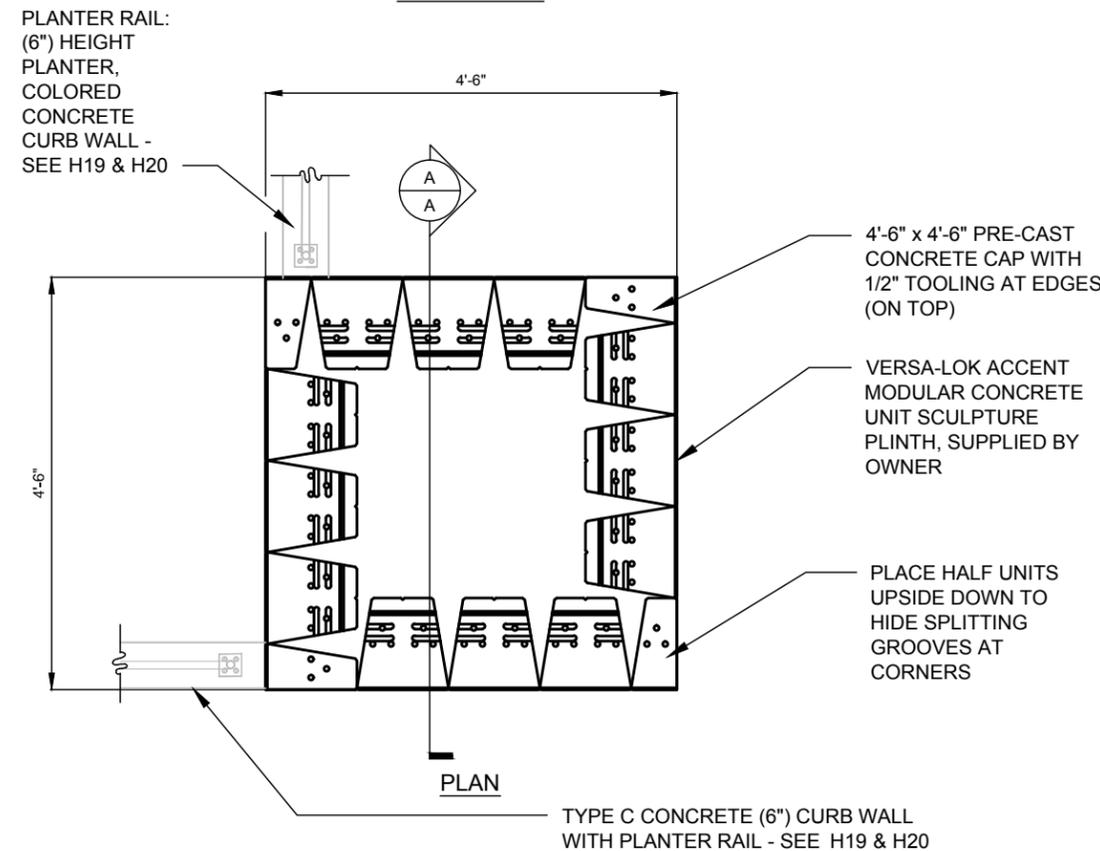
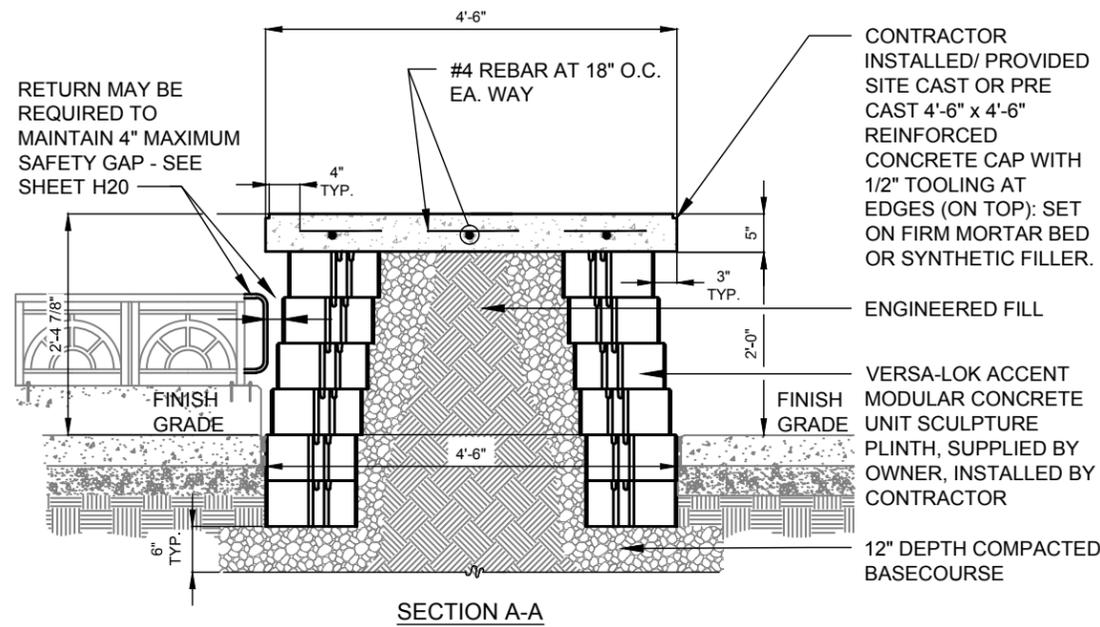
STREETSCAPE DETAIL DRAWINGS

FOR BIDDING PURPOSES ONLY

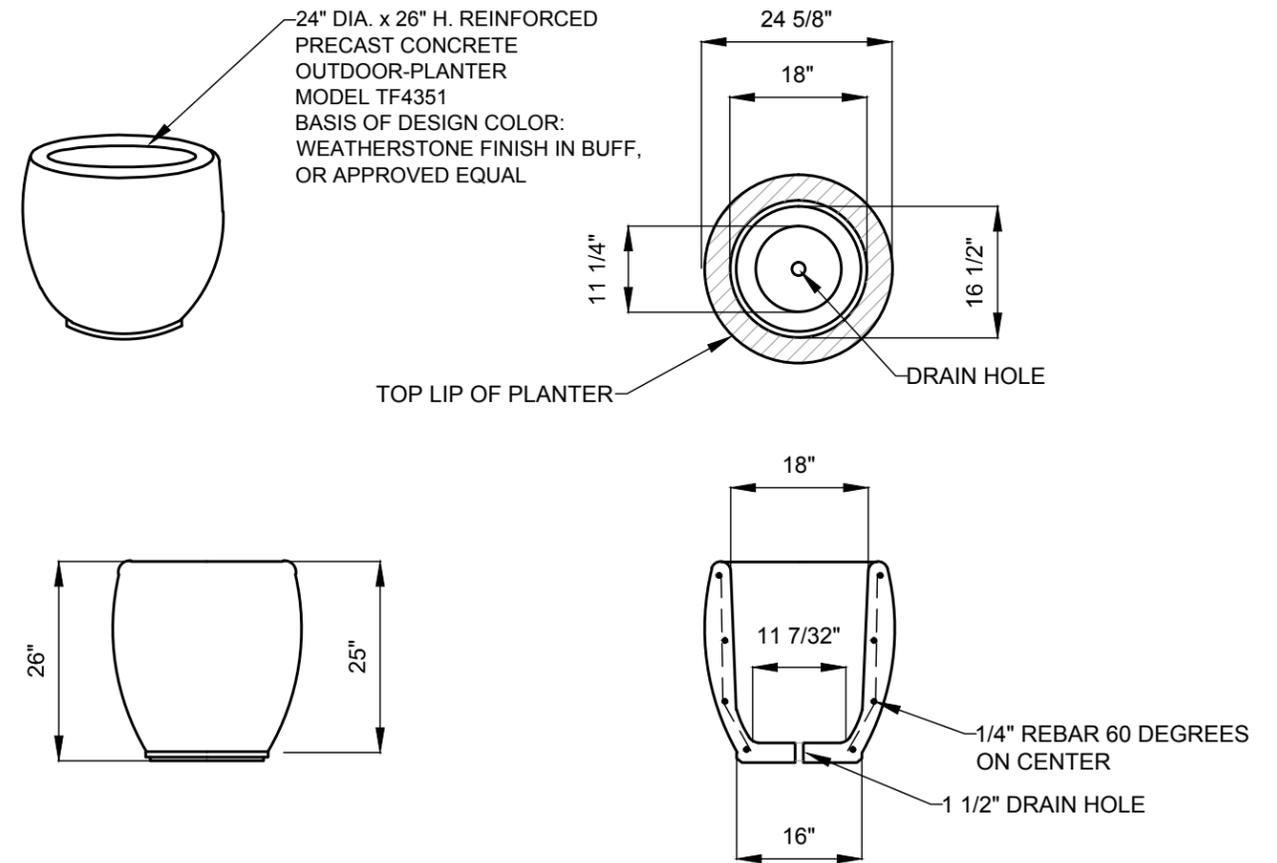
STATE OF SOUTH DAKOTA FOURFRONT DESIGN INC. Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H21	H51

TABLE OF STEEL AND CONCRETE QUANTITIES FOR EACH CONCRETE CAP

Class M6 Concrete (CuYd)	Reinf. Steel (Lb)
0.31	23



1 SEGMENTAL BLOCK SCULPTURE PLINTH (OWNER SUPPLIED - CONTRACTOR INSTALLED)



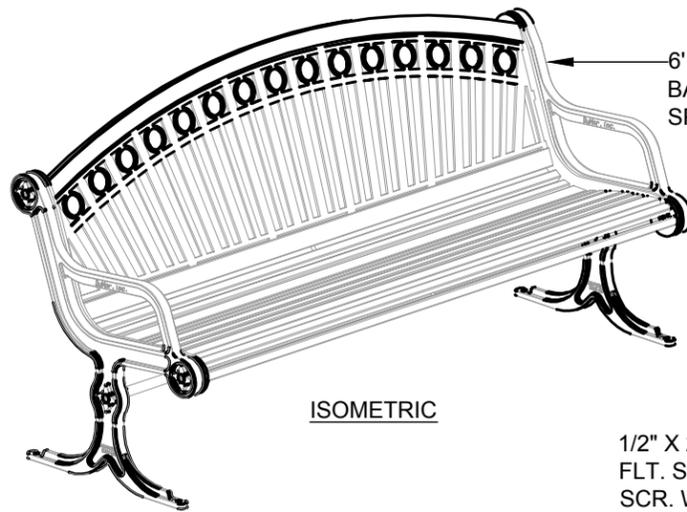
2 REMOVABLE CONCRETE PLANTER (OWNER SUPPLIED - OWNER INSTALLED)

SUPPLIED BY: BELSON OUTDOORS, INC. 111 NORTH RIVER ROAD NORTH AURORA, IL 60542 PHONE: (800) 323-5564 FAX: (630) 897-0573 EMAIL: sales@belson.com

STREETSCAPE DETAIL DRAWINGS

FOR BIDDING PURPOSES ONLY

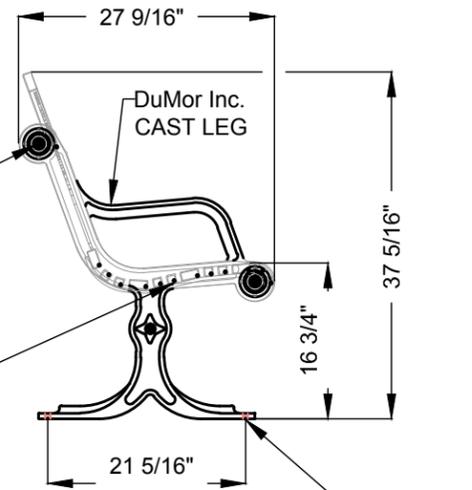
STATE OF SOUTH DAKOTA FOURFRONT DESIGN LLC Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H22	H51



6' LONG STEEL BENCH MODEL NO. 162-02
BASIS OF DESIGN COLOR: BLACK, AS SPECIFIED, OR APPROVED EQUAL

ISOMETRIC

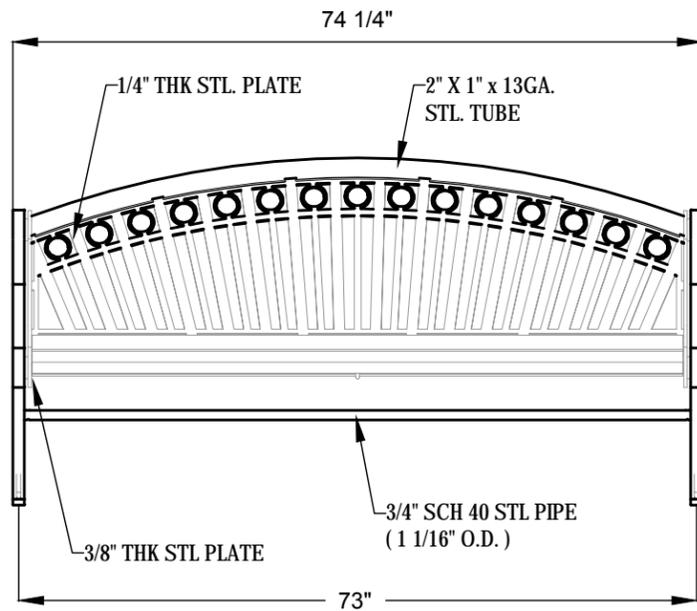
1/2" X 2 1/2" S-STL.
FLT. SKT. HD. CAP
SCR. W/ WASHER AND
THIN NYLON LOCKNUT



SIDE VIEW

1" SQ. x 11GA. STL.
TUBE

9/16"Ø
ANCHOR
HOLES



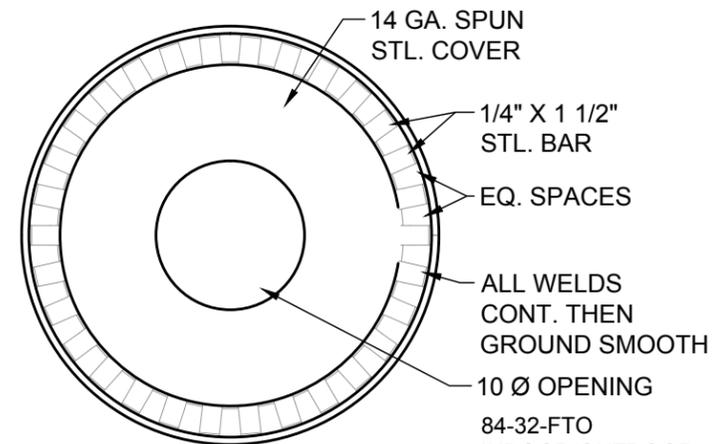
FRONT VIEW

SUPPLIED BY:
DUMOR INC.
15 T-393, MIFFLINTOWN, PA 17059
PHONE: (717) 436-2106

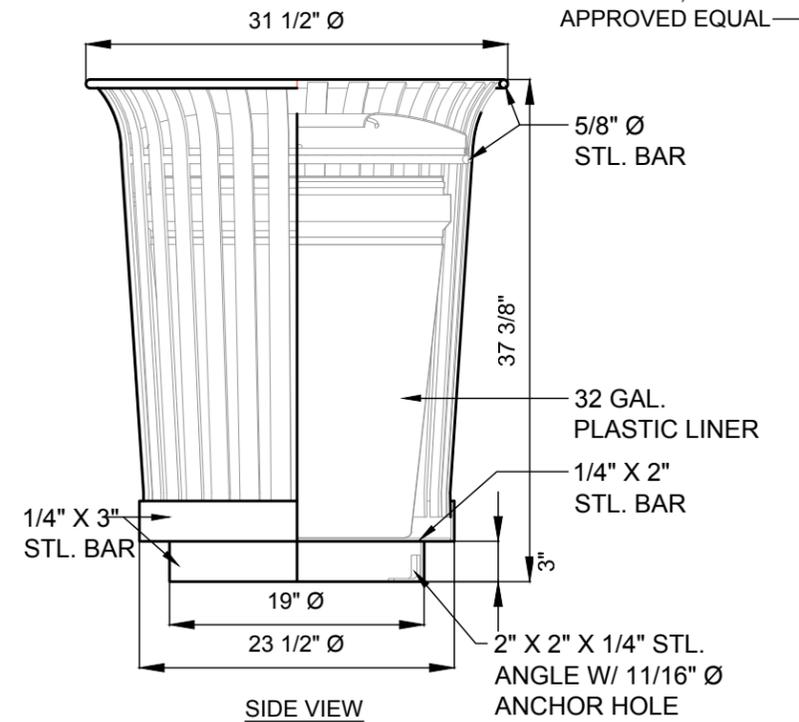
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. ALL STEEL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
4. 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
5. CUSTOM LETTERING AVAILABLE FOR RECESSED SIDE PANELS (TOTAL OF 37 SPACES).
6. CONTRACTOR'S NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 017-234.

BENCH
(OWNER SUPPLIED - OWNER INSTALLED)

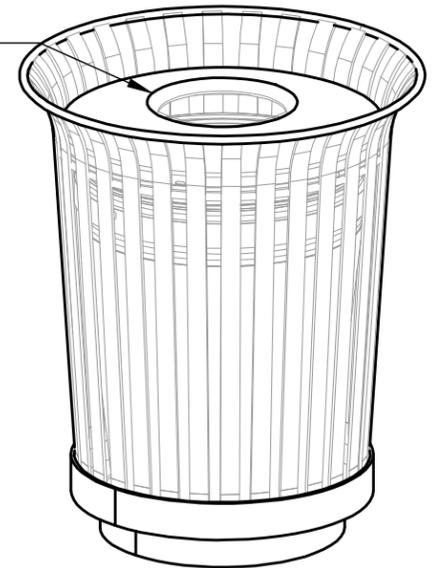
1



TOP VIEW



SIDE VIEW



ISOMETRIC

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
4. RECEPTACLE FULLY ASSEMBLED AT FACTORY.
5. ALL WELDS CONT. THEN GROUND SMOOTH.
6. 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
7. CONTRACTOR'S NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 017-331.

TRASH CONTAINER
(OWNER SUPPLIED - OWNER INSTALLED)

2

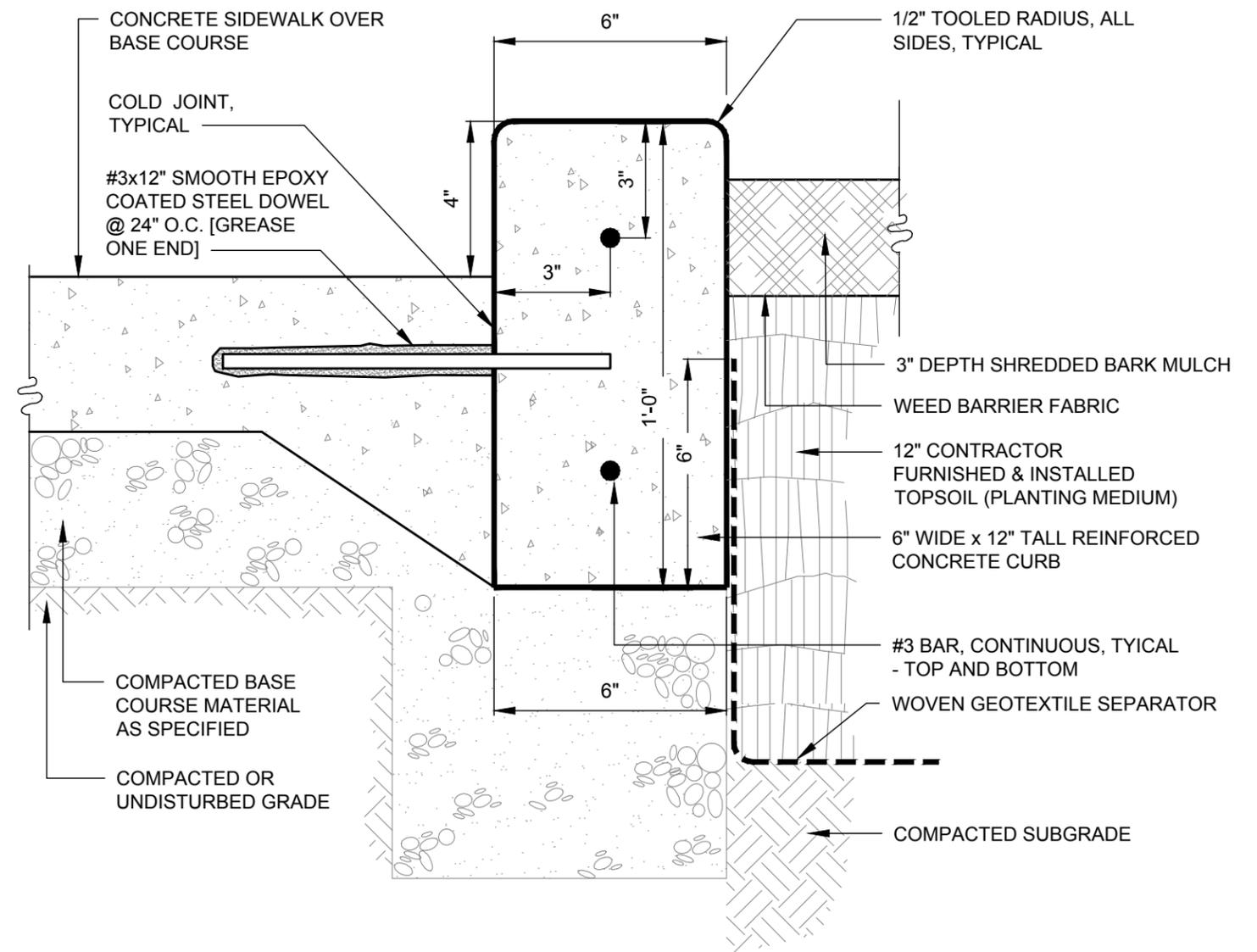
SUPPLIED BY:
DUMOR INC.
15 T-393, MIFFLINTOWN, PA 17059
PHONE: (717) 436-2106



STREETSCAPE DETAIL DRAWINGS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN INC. Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H23	H51

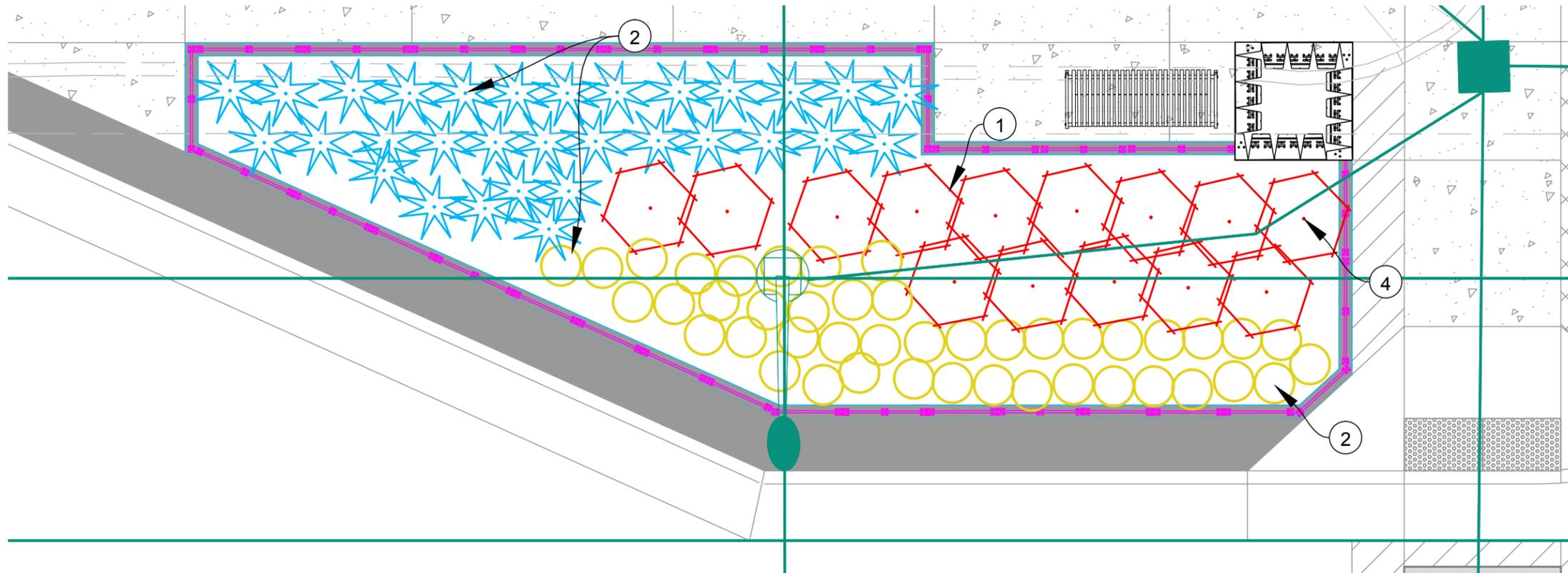


1 CONCRETE (4") CURB PLANTER

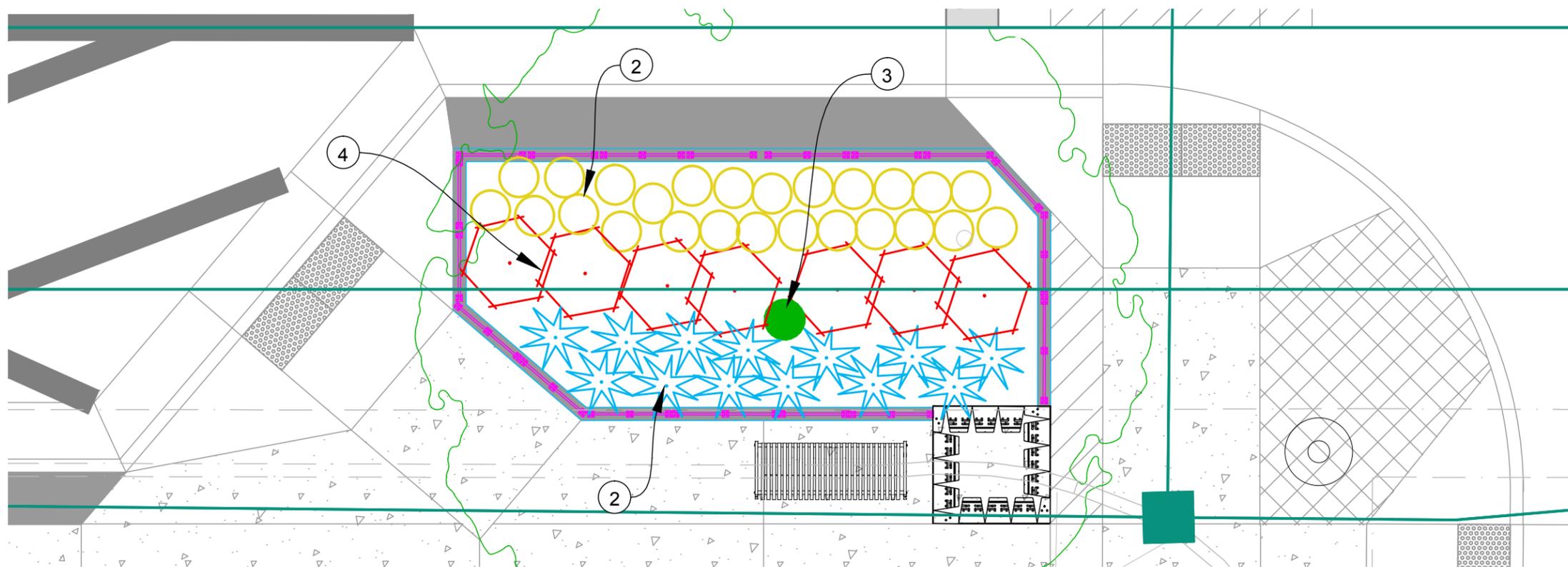
TYPICAL/ SIMILAR PLANTING PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H24	H51
Plotting Date: 10/15/2015			



1 TYPICAL/ SIMILAR PLANTING PLAN



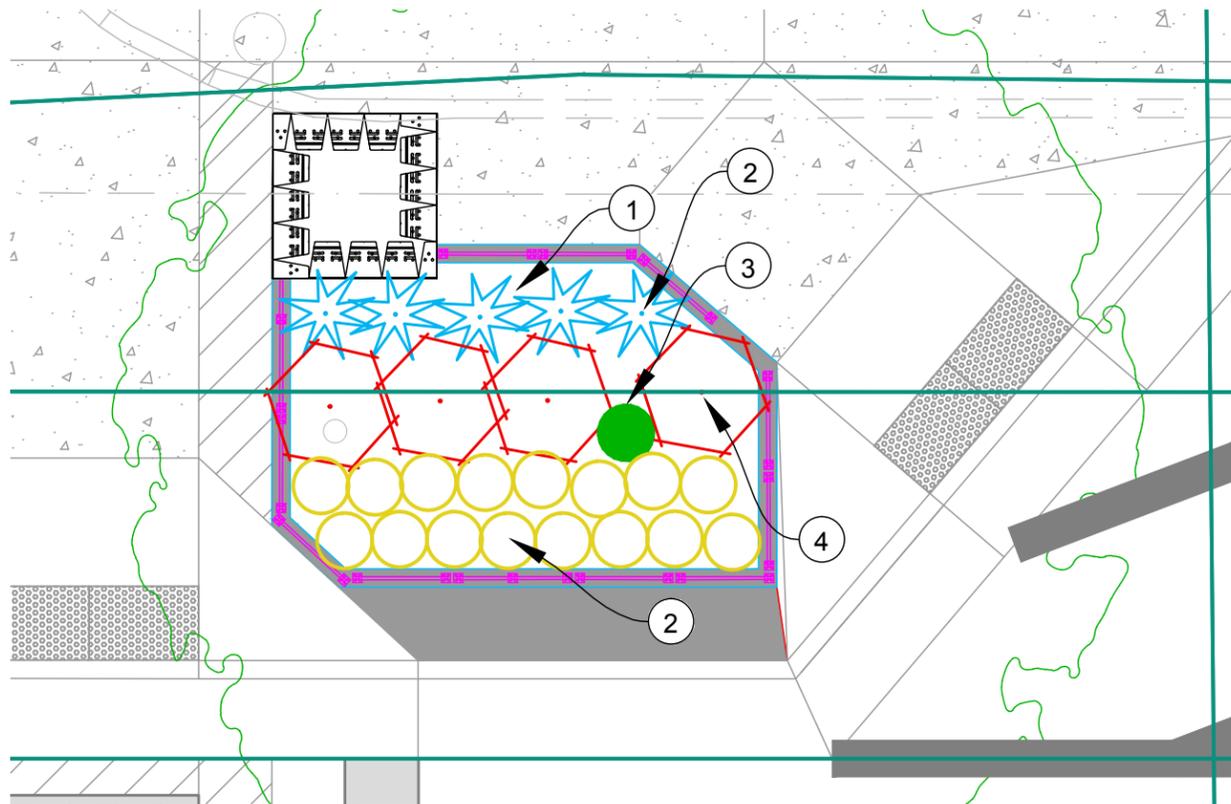
- 1 PLANTING PLAN AT PLANTER RAIL (6") HEIGHT PLANTER, COLORED CONCRETE CURB - SEE 1/ H32
- 2 TYPICAL PERENNIAL AND ORNAMENTAL GRASS PLANTING - SEE 2/ H32
- 3 TYPICAL DECIDUOUS TREE PLANTING - SEE 1/ H33 AND ELECTRICAL PLANS - ORNAMENTAL LIGHTING/ GFI LOCATION. NOTE: DEEPER TOPSOIL (PLANTING MEDIUM) REQUIREMENT AT PLANTING PIT.
- 4 TYPICAL SHRUB PLANTING - SEE 2/ H33

2 TYPICAL/ SIMILAR PLANTING PLAN

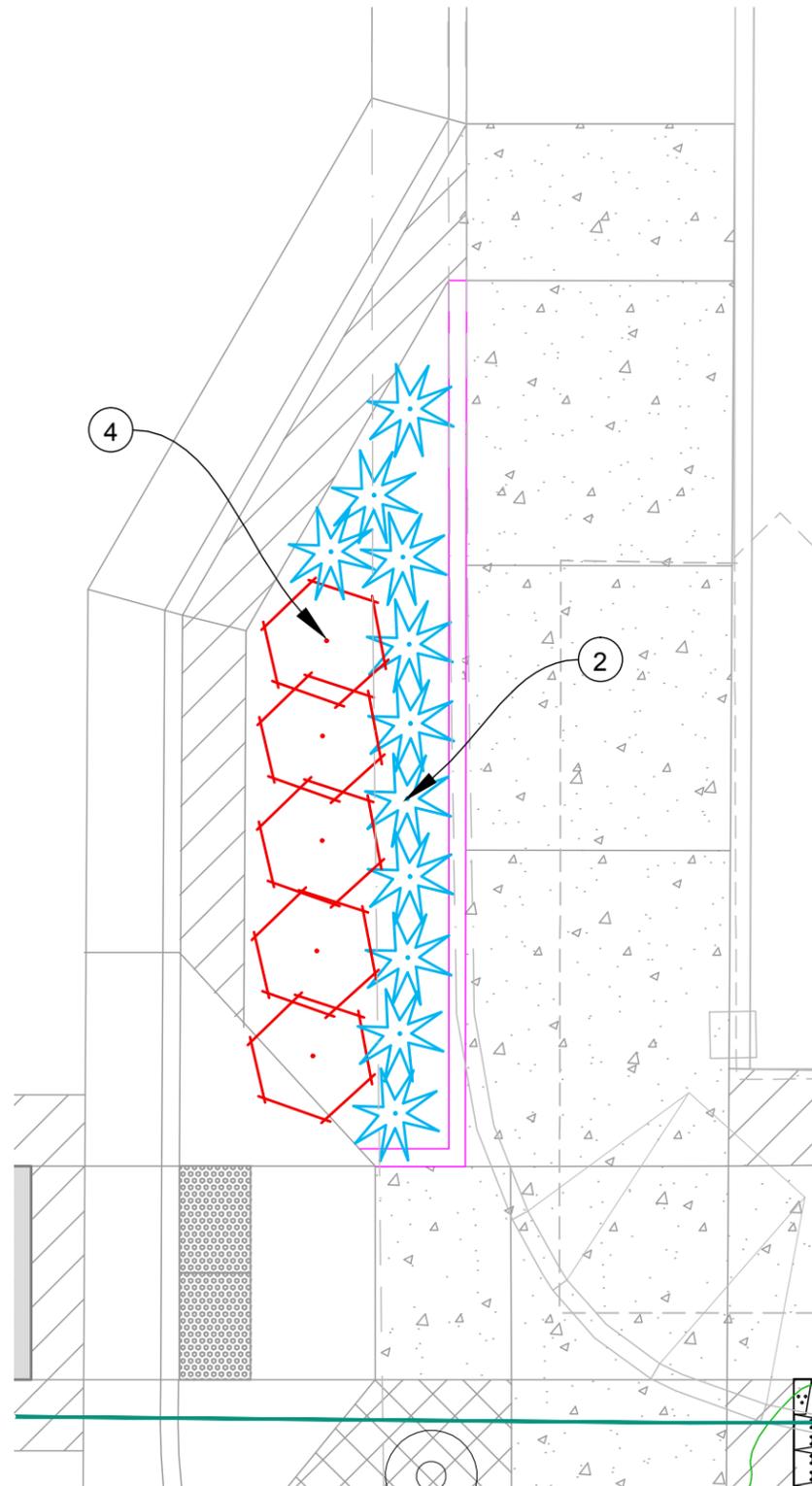
TYPICAL/ SIMILAR PLANTING PLAN

FOR BIDDING PURPOSES ONLY

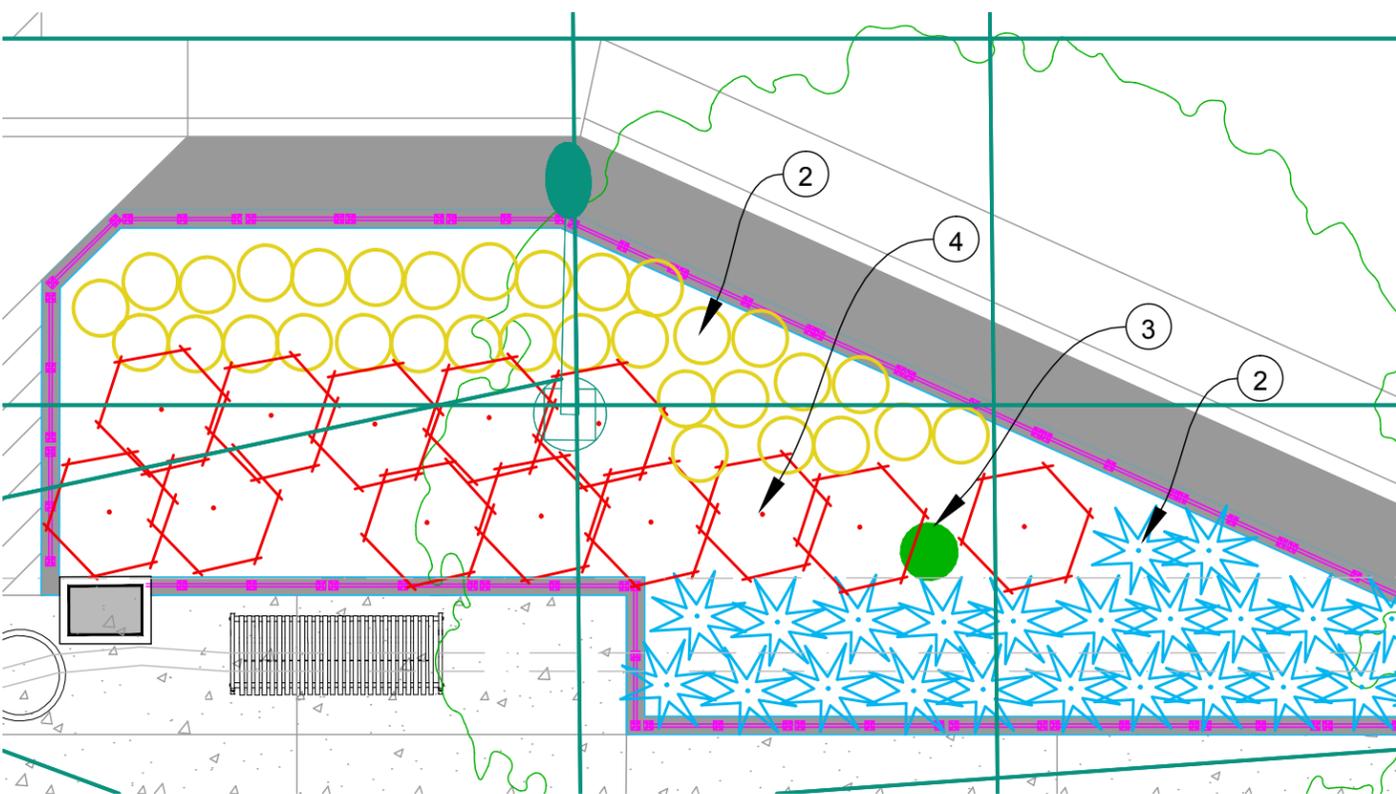
STATE OF SOUTH DAKOTA FOURFRONT DESIGN LLC Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H25	H51



1 TYPICAL/ SIMILAR PLANTING PLAN



3 TYPICAL/ SIMILAR PLANTING PLAN @ CONCRETE (4") CURB PLANTER



2 TYPICAL/ SIMILAR PLANTING PLAN



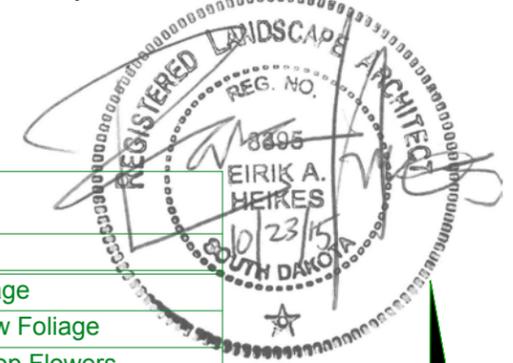
- 1 PLANTING PLAN AT PLANTER RAIL (6") HEIGHT PLANTER, COLORED CONCRETE CURB - SEE 1/ H32
- 2 TYPICAL PERENNIAL AND ORNAMENTAL GRASS PLANTING - SEE 2/ H32
- 3 TYPICAL DECIDUOUS TREE PLANTING - SEE 1/ H33 AND ELECTRICAL PLANS - ORNAMENTAL LIGHTING/ GFI LOCATION. NOTE: DEEPER TOPSOIL (PLANTING MEDIUM) REQUIREMENT AT PLANTING PIT.
- 4 TYPICAL SHRUB PLANTING - SEE 2/ H33

PLANTING PLAN

FOR BIDDING PURPOSES ONLY

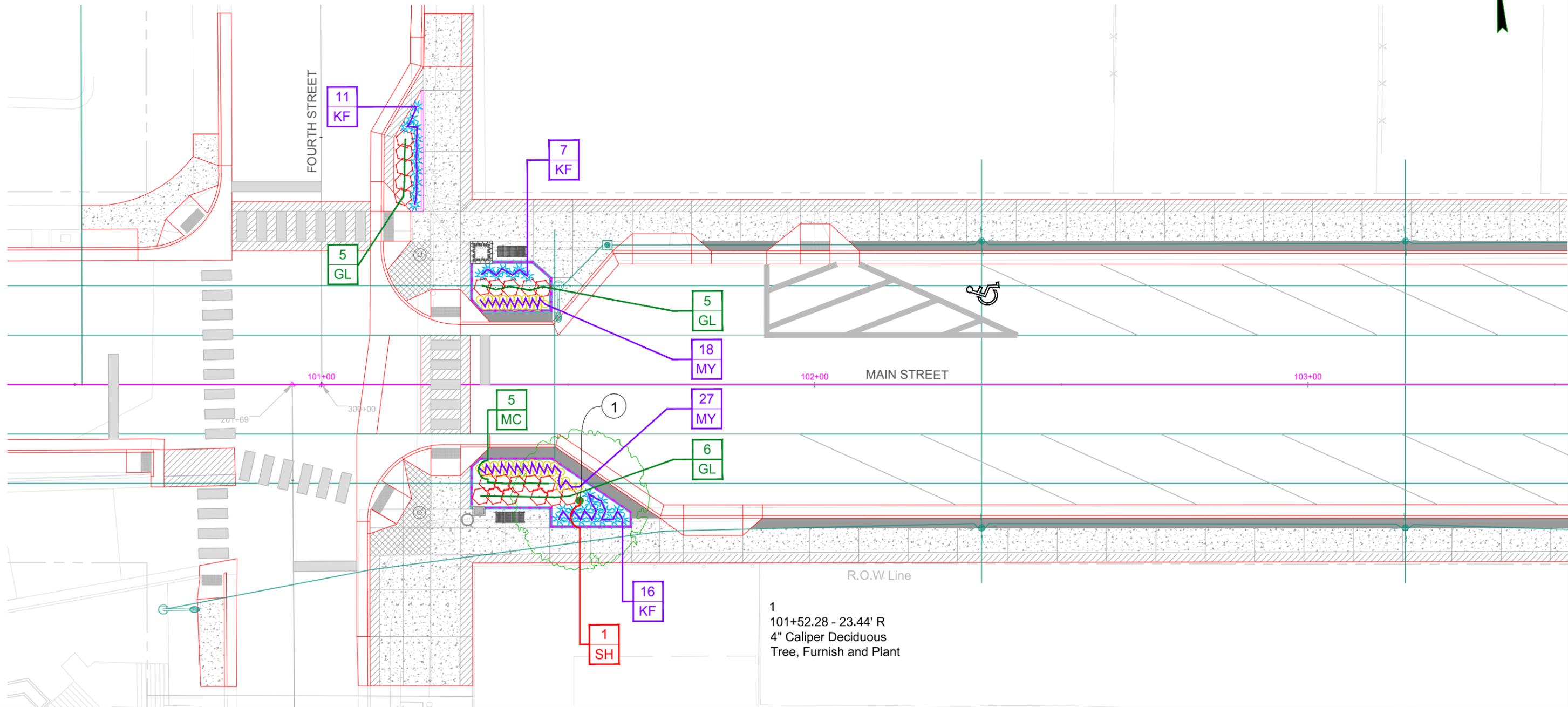
STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H26	TOTAL SHEETS H51
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Plotting Date: 10/15/2015



PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	QUANTITY	PLANTED SIZE	MATURE SIZE	SPACING	REMARKS
SH	Skyline Honeylocust	<i>Gleditsia triacanthos</i> 'Skycole'	1	4" Caliper	35'-40' H x 35' W	As Shown	Delicate, Ferny Foliage
MC	Magic Carpet Spirea	<i>Spiraea x bumalda</i> 'Magic Carpet'	5	2 Gallon	2' H x 3' W	3' O.C.	Bright Red Fading to Yellow Foliage
MY	Moonshine Yarrow	<i>Achillea millefolium</i> 'Moonshine'	45	1 Gallon	2' H x 2' W	2' O.C.	Stemmed with Yellow Flat Top Flowers
GL	Grow Low Sumac	<i>Rhus triloba</i> 'Gro-Low'	16	2 Gallon	18" H x 4' W	3' O.C.	Ground Stabilizing Spreader
KF	Karl Foerster Reed Grass	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	34	2 Gallon	4' H x 3' W	3' O.C.	Green, Tan Grassy Leaves with Bold Rose Plumes



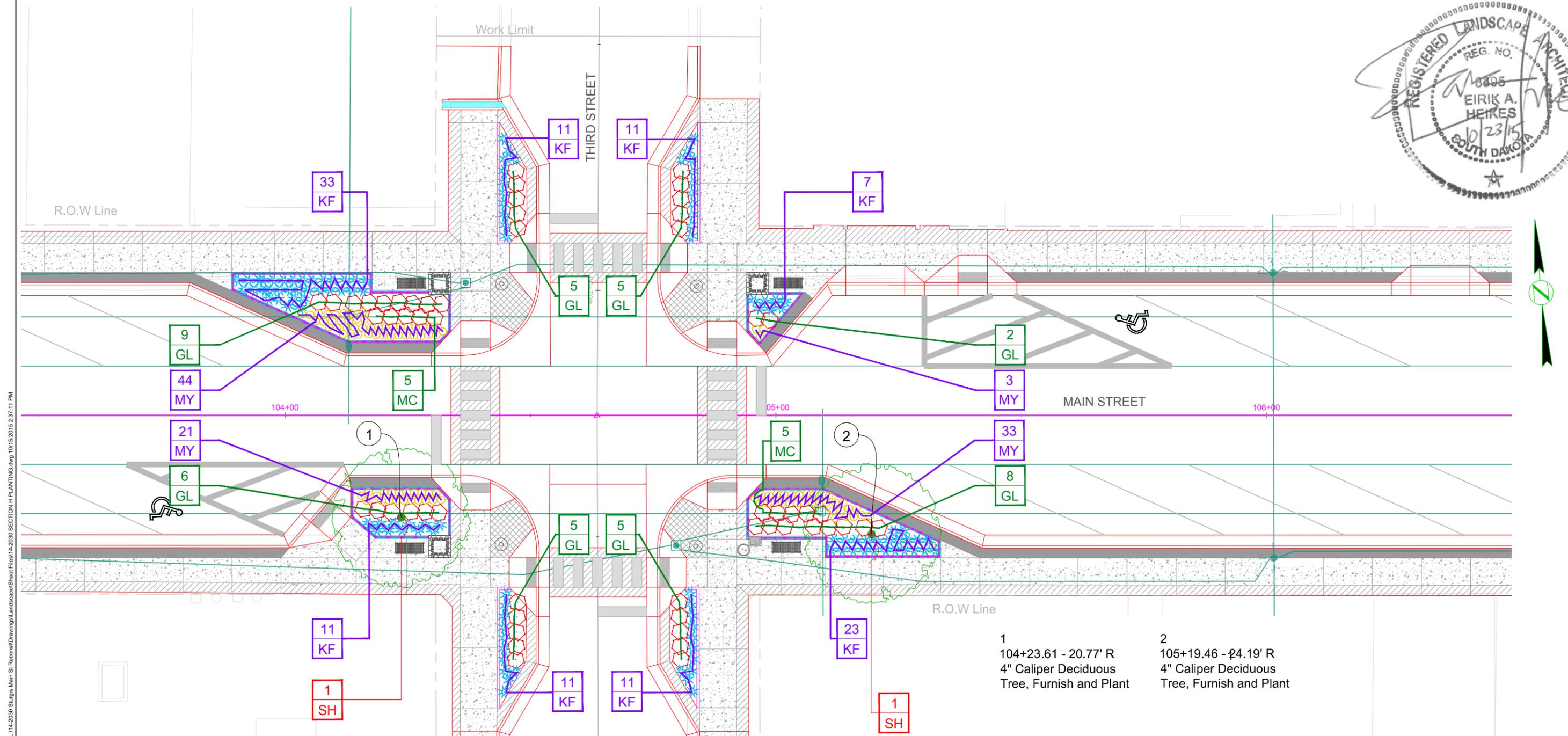
PLANTING PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN INC. Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H27	H51

PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	QUANTITY	PLANTED SIZE	MATURE SIZE	SPACING	REMARKS
SH	Skyline Honeylocust	Gleditsia triacanthos 'Skycole'	2	4" Caliper	35'-40' H x 35' W	As Shown	Delicate, Ferny Foliage
MC	Magic Carpet Spirea	Spiraea x bumalda 'Magic Carpet'	10	2 Gallon	2' H x 3' W	3' O.C.	Bright Red Fading to Yellow Foliage
MY	Moonshine Yarrow	Achillea millefolium 'Moonshine'	101	1 Gallon	2' H x 2' W	2' O.C.	Stemmed with Yellow Flat Top Flowers
GL	Grow Low Sumac	Rhus triloba 'Gro-Low'	45	2 Gallon	18" H x 4' W	3' O.C.	Ground Stabilizing Spreader
KF	Karl Foerster Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	118	2 Gallon	4' H x 3' W	3' O.C.	Green, Tan Grassy Leaves with Bold Rose Plumes



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PLANTING PLAN

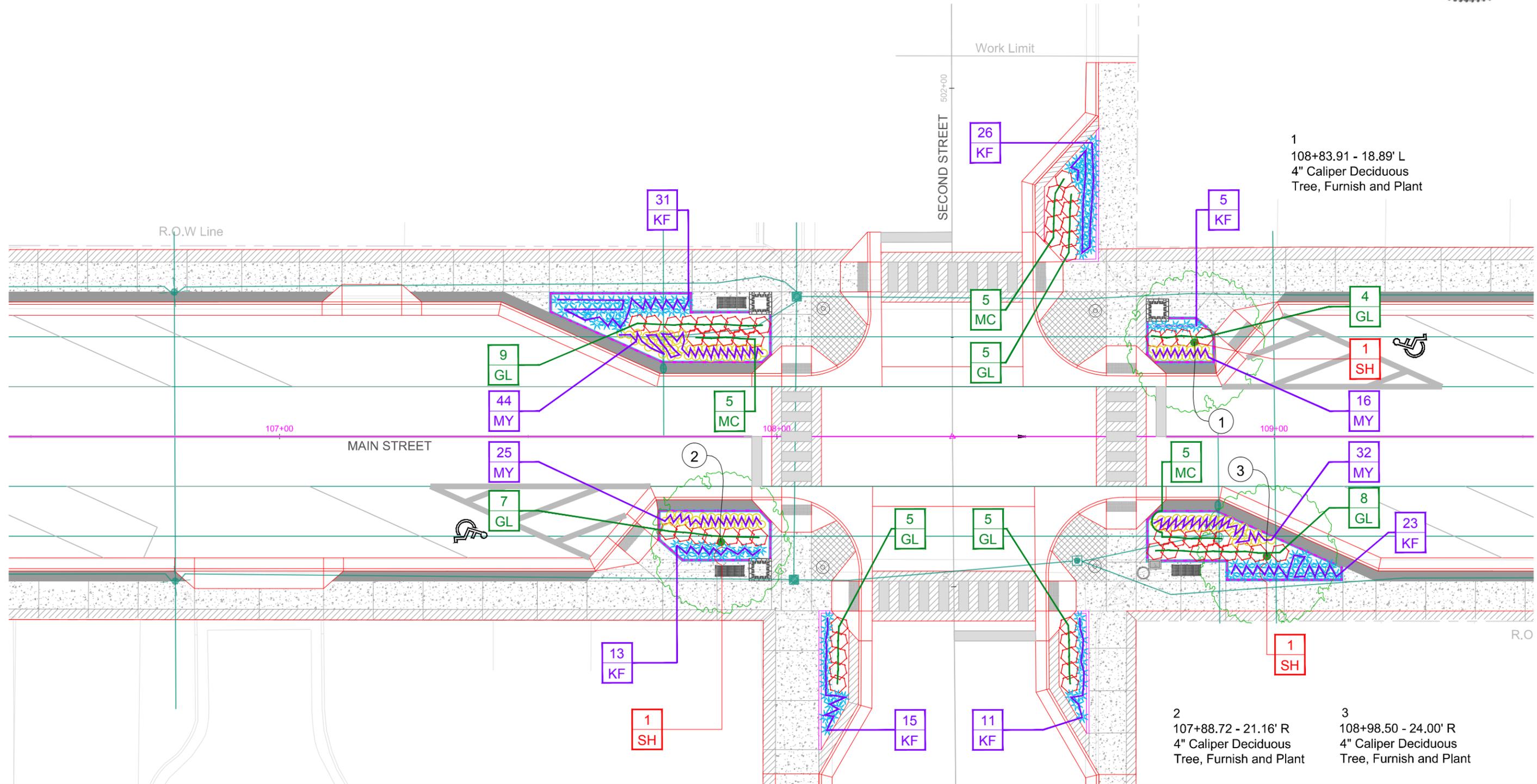
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H28	TOTAL SHEETS H51
Plotting Date: 10/15/2015			



PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	QUANTITY	PLANTED SIZE	MATURE SIZE	SPACING	REMARKS
SH	Skyline Honeylocust	Gleditsia triacanthos 'Skycole'	3	4" Caliper	35'-40' H x 35' W	As Shown	Delicate, Ferny Foliage
MC	Magic Carpet Spirea	Spiraea x bumalda 'Magic Carpet'	15	2 Gallon	2' H x 3' W	3' O.C.	Bright Red Fading to Yellow Foliage
MY	Moonshine Yarrow	Achillea millefolium 'Moonshine'	117	1 Gallon	2' H x 2' W	2' O.C.	Stemmed with Yellow Flat Top Flowers
GL	Grow Low Sumac	Rhus triloba 'Gro-Low'	43	2 Gallon	18" H x 4' W	3' O.C.	Ground Stabilizing Spreader
KF	Karl Foerster Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	124	2 Gallon	4' H x 3' W	3' O.C.	Green, Tan Grassy Leaves with Bold Rose Plumes



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PLANTING PLAN

FOR BIDDING PURPOSES ONLY



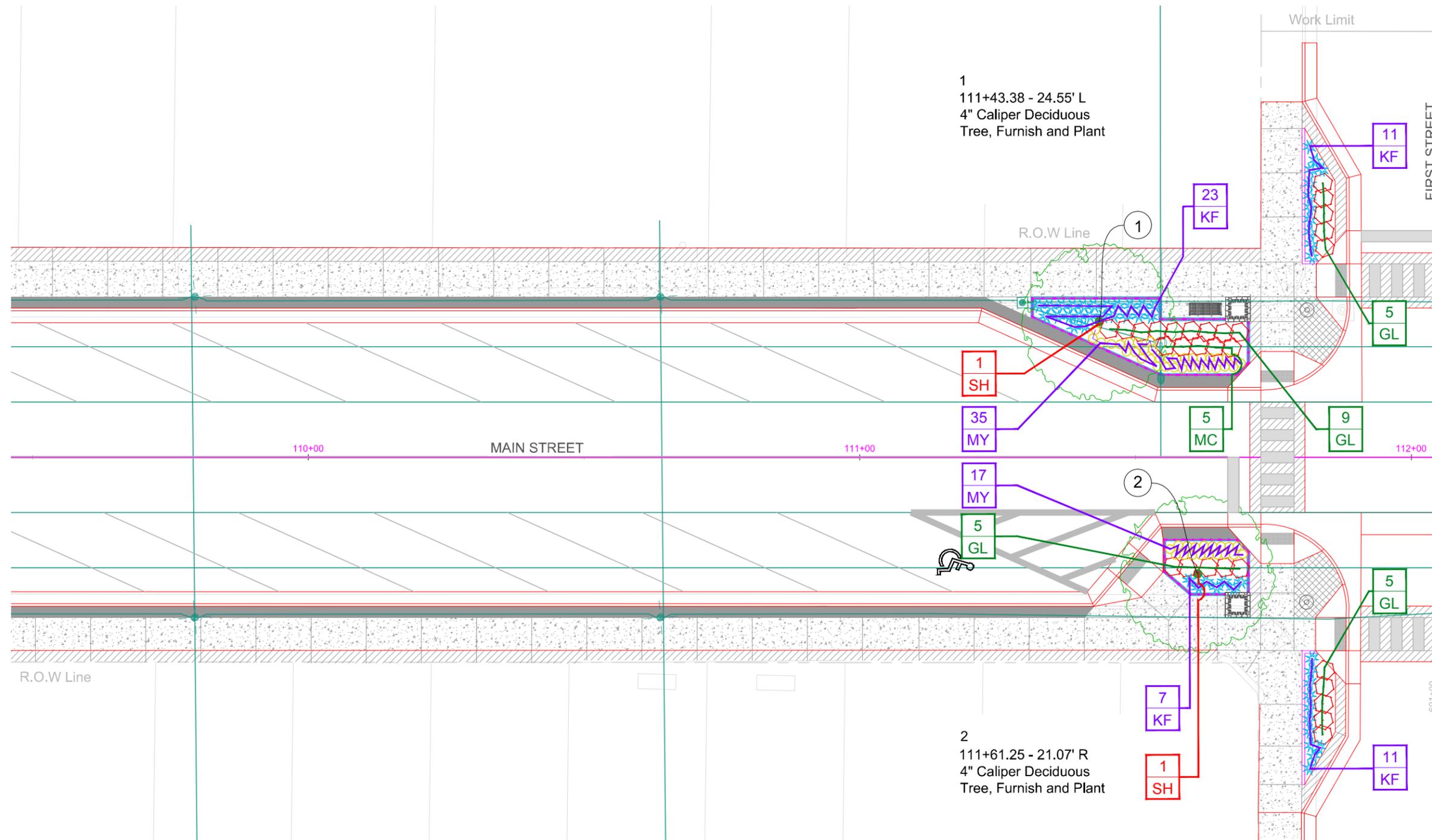
STATE OF SOUTH DAKOTA

Plotting Date: 10/15/2015

PROJECT	SHEET	TOTAL SHEETS
P 7668 (05)	H29	H51

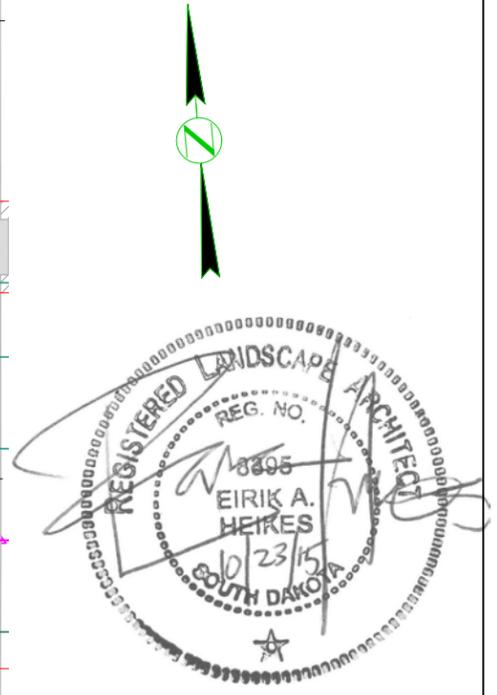
PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	QUANTITY	PLANTED SIZE	MATURE SIZE	SPACING	REMARKS
SH	Skyline Honeylocust	Gleditsia triacanthos 'Skycole'	2	4" Caliper	35'-40' H x 35' W	As Shown	Delicate, Ferny Foliage
MC	Magic Carpet Spirea	Spiraea x bumalda 'Magic Carpet'	5	2 Gallon	2' H x 3' W	3' O.C.	Bright Red Fading to Yellow Foliage
MY	Moonshine Yarrow	Achillea millefolium 'Moonshine'	52	1 Gallon	2' H x 2' W	2' O.C.	Stemmed with Yellow Flat Top Flowers
GL	Grow Low Sumac	Rhus triloba 'Gro-Low'	24	2 Gallon	18" H x 4' W	3' O.C.	Ground Stabilizing Spreader
KF	Karl Foerster Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	52	2 Gallon	4' H x 3' W	3' O.C.	Green, Tan Grassy Leaves with Bold Rose Plumes



1
111+43.38 - 24.55' L
4" Caliper Deciduous
Tree, Furnish and Plant

2
111+61.25 - 21.07' R
4" Caliper Deciduous
Tree, Furnish and Plant



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PLANTING PLAN

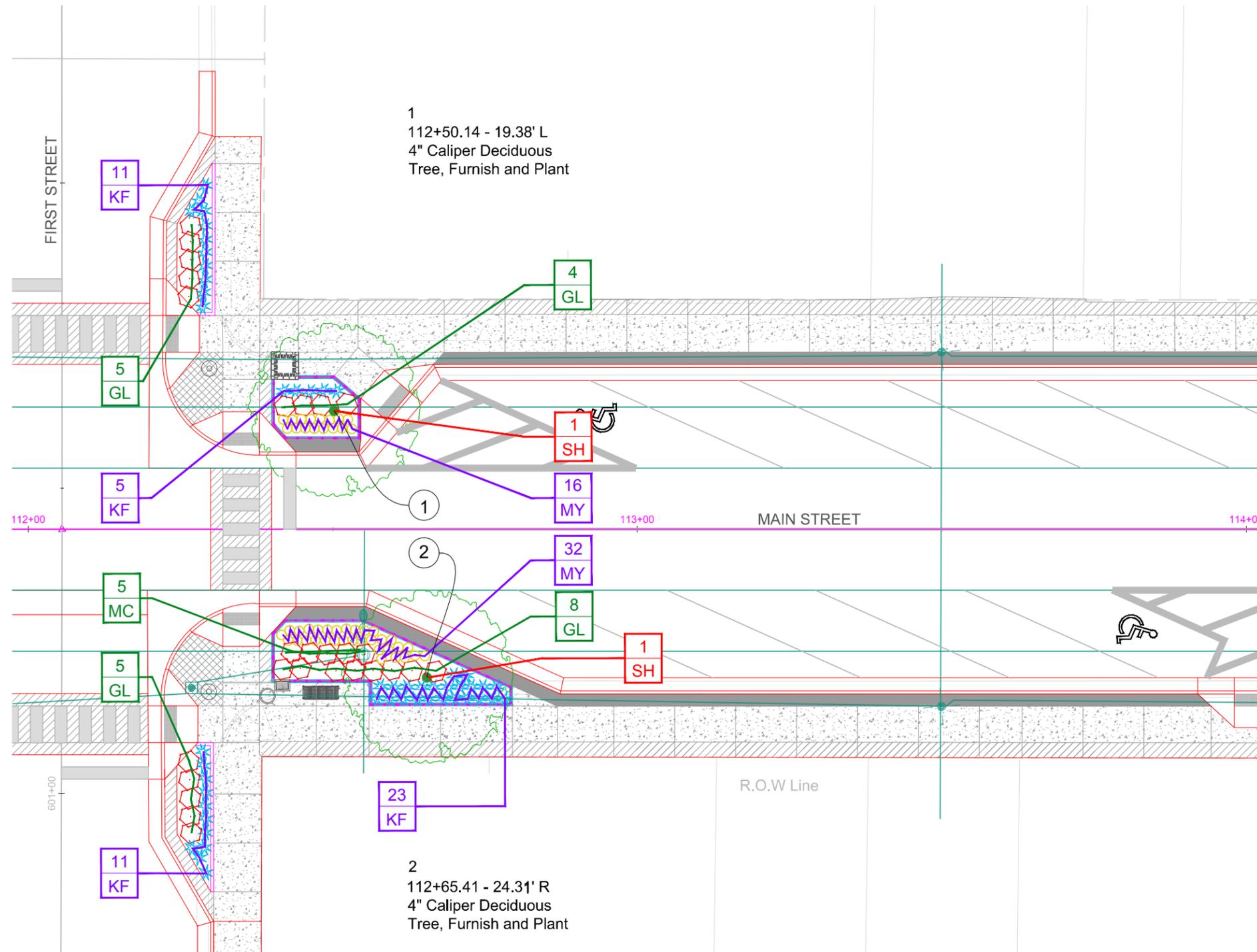
FOR BIDDING PURPOSES ONLY



STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H30	TOTAL SHEETS H51
Plotting Date: 10/15/2015			

PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	QUANTITY	PLANTED SIZE	MATURE SIZE	SPACING	REMARKS
SH	Skyline Honeylocust	<i>Gleditsia triacanthos</i> 'Skycole'	2	4" Caliper	35'-40' H x 35' W	As Shown	Delicate, Ferny Foliage
MC	Magic Carpet Spirea	<i>Spiraea x bumalda</i> 'Magic Carpet'	5	2 Gallon	2' H x 3' W	3' O.C.	Bright Red Fading to Yellow Foliage
MY	Moonshine Yarrow	<i>Achillea millefolium</i> 'Moonshine'	48	1 Gallon	2' H x 2' W	2' O.C.	Stemmed with Yellow Flat Top Flowers
GL	Grow Low Sumac	<i>Rhus triloba</i> 'Gro-Low'	22	2 Gallon	18" H x 4' W	3' O.C.	Ground Stabilizing Spreader
KF	Karl Foerster Reed Grass	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	50	2 Gallon	4' H x 3' W	3' O.C.	Green, Tan Grassy Leaves with Bold Rose Plumes



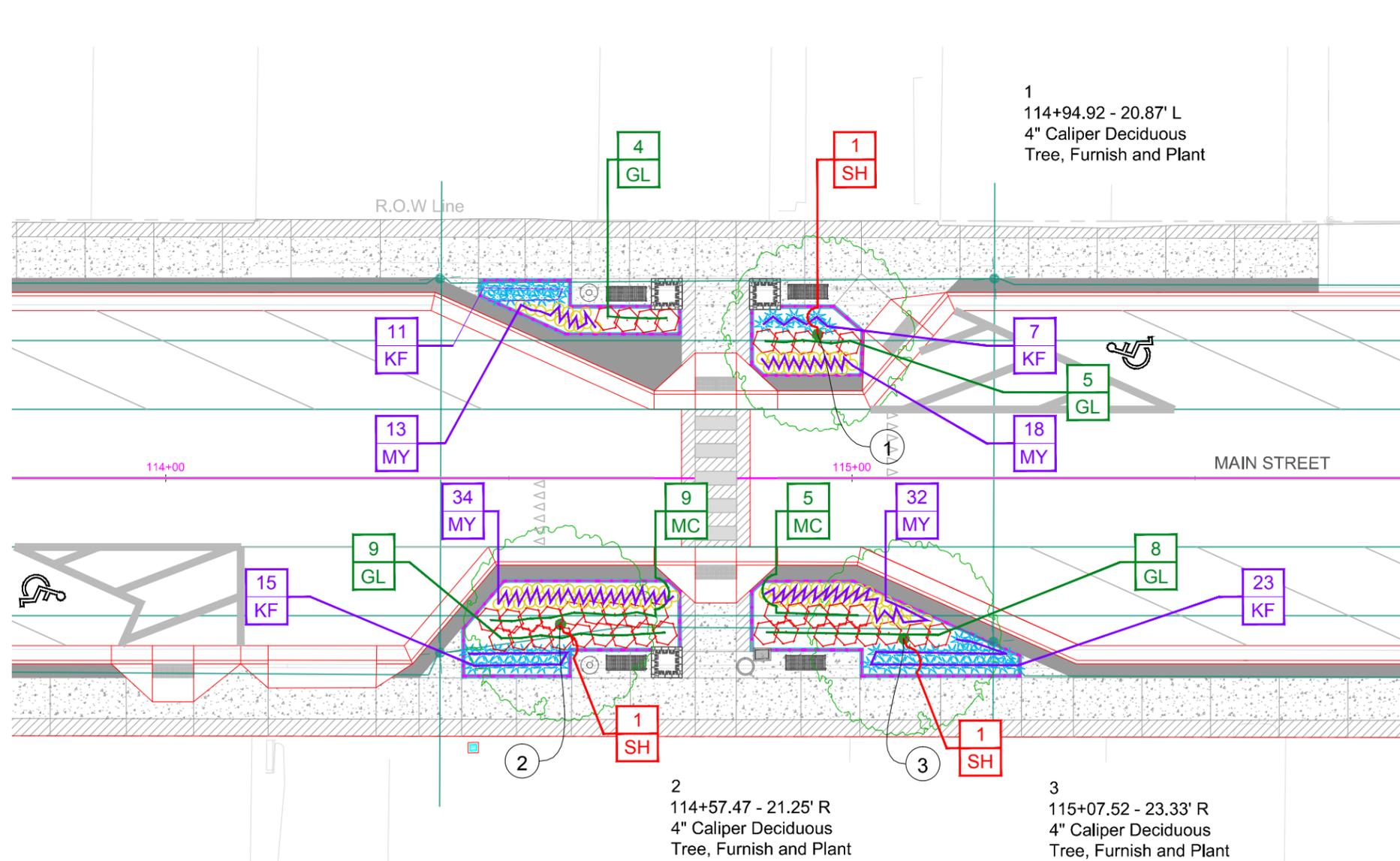
PLANTING PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN INC. Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H31	H51

PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	QUANTITY	PLANTED SIZE	MATURE SIZE	SPACING	REMARKS
SH	Skyline Honeylocust	Gleditsia triacanthos 'Skycole'	3	4" Caliper	35'-40' H x 35' W	As Shown	Delicate, Ferny Foliage
MC	Magic Carpet Spirea	Spiraea x bumalda 'Magic Carpet'	14	2 Gallon	2' H x 3' W	3' O.C.	Bright Red Fading to Yellow Foliage
MY	Moonshine Yarrow	Achillea millefolium 'Moonshine'	97	1 Gallon	2' H x 2' W	2' O.C.	Stemmed with Yellow Flat Top Flowers
GL	Grow Low Sumac	Rhus triloba 'Gro-Low'	26	2 Gallon	18" H x 4' W	3' O.C.	Ground Stabilizing Spreader
KF	Karl Foerster Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	56	2 Gallon	4' H x 3' W	3' O.C.	Green, Tan Grassy Leaves with Bold Rose Plumes

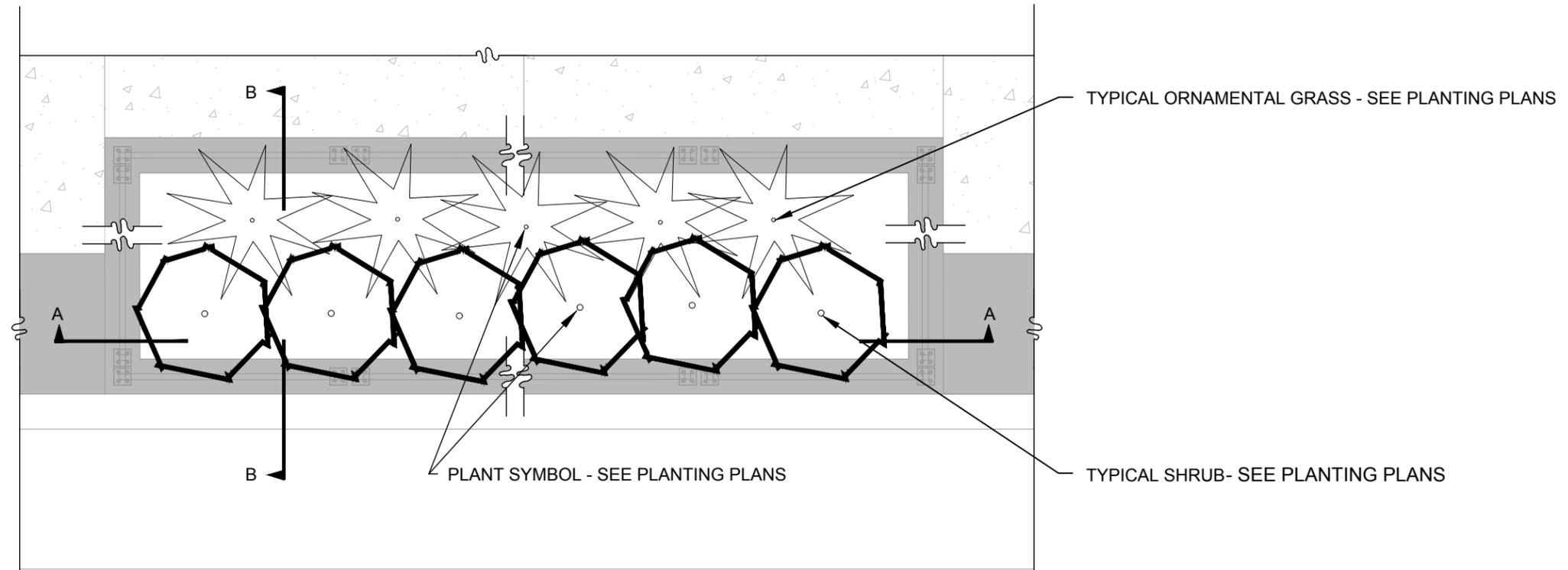
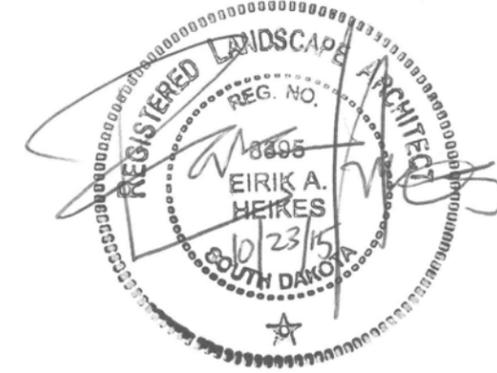


PLANTING DETAILS

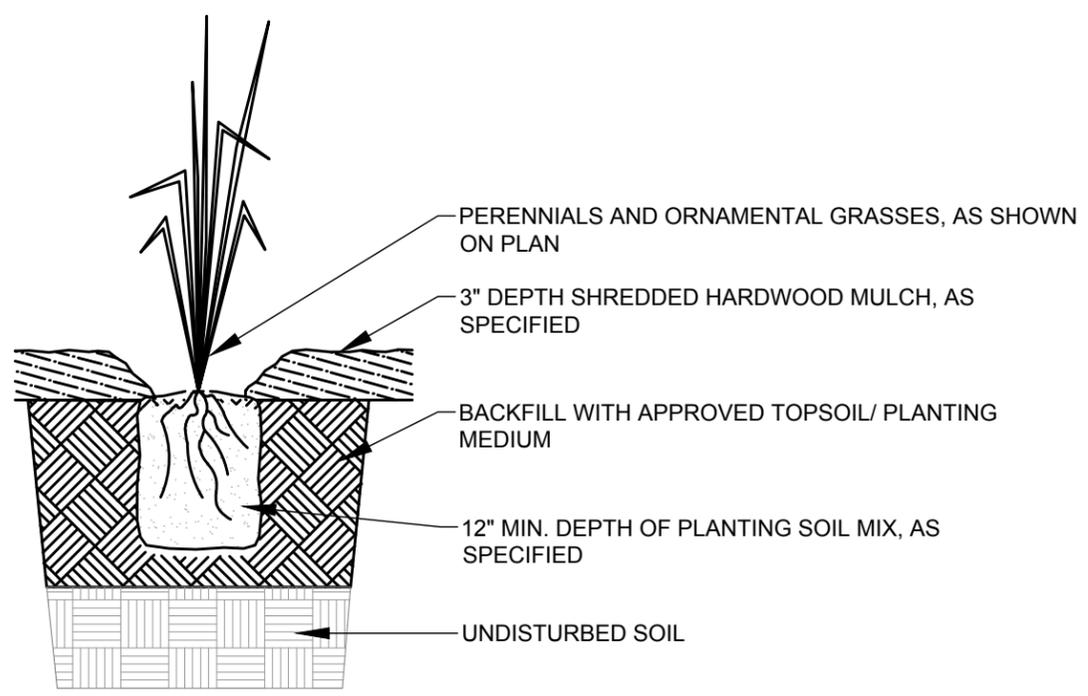
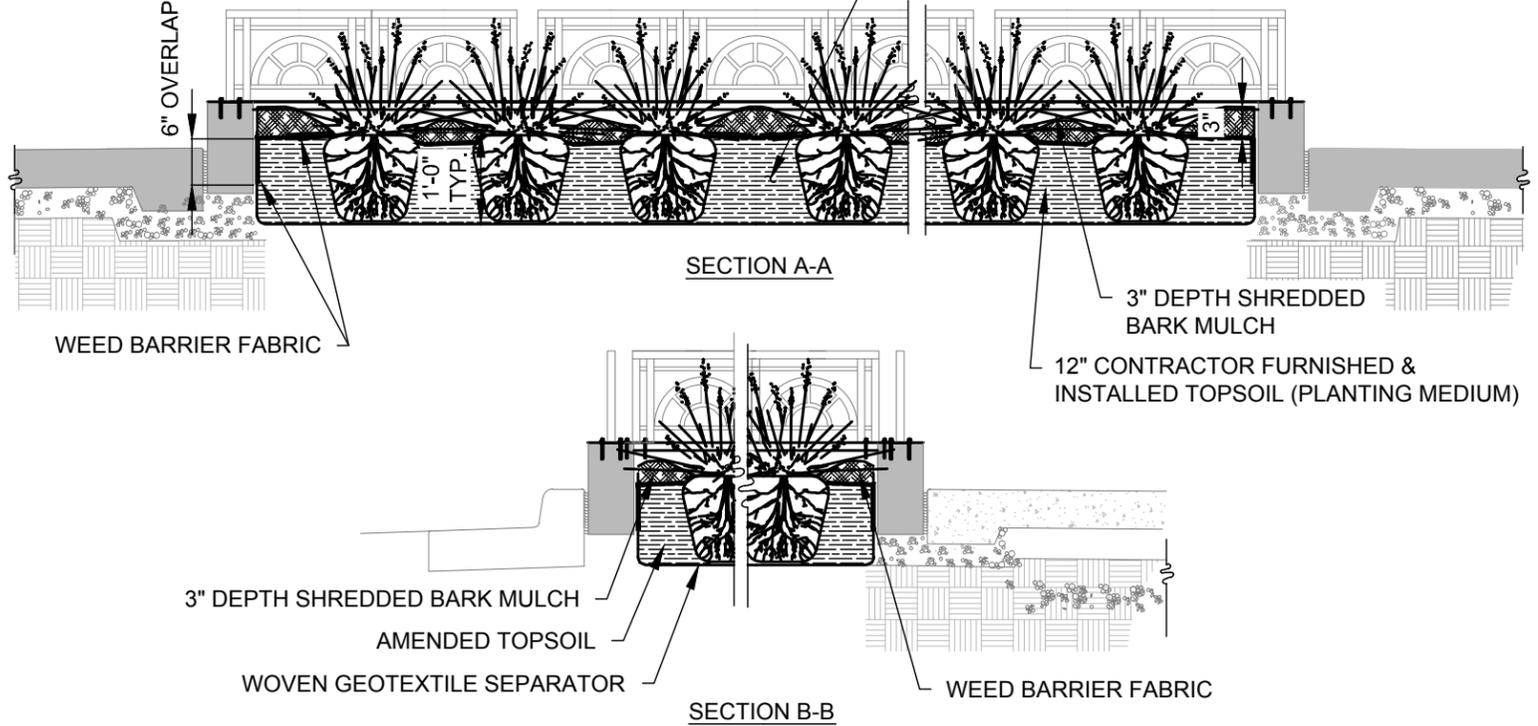
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H32	TOTAL SHEETS H51
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Plotting Date: 10/15/2015



AMENDED SOIL, AS SPECIFIED. REFER TO 'PLACING CONTRACTOR FURNISHED TOPSOIL' GENERAL NOTES. NOTE: TOPSOIL REQUIREMENTS INCLUDE A MIXTURE OF TOPSOIL WITH COMPOST AND AMENDMENTS AT A 4:1 RATIO OF SOIL TO COMPOST



PLANTING PLAN AT PLANTER RAIL:
(6") HEIGHT PLANTER, COLORED CONCRETE CURB WALL

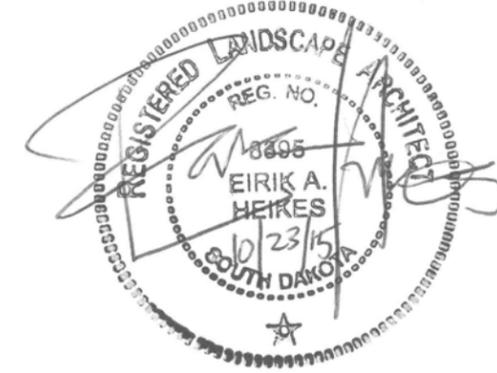
PERENNIAL AND ORNAMENTAL GRASS PLANTING DETAIL

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PLANTING DETAILS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H33	TOTAL SHEETS H51
Plotting Date: 10/15/2015			



NOTE:
REMOVE ANY GUY WIRE AFTER TWO GROWING SEASONS
RESPONSIBILITY OF THE CITY OF STURGIS

1" WIDTH X 16" LENGTH ARBOR APPROVED NYLON OR RUBBER STRAP WITH GROMMETS. SECURE TO POSTS WITH 2-STRAND TWISTED 12 GAUGE GALVANIZED WIRE. AS SPECIFIED.

TREE STAKES (2 PER TREE) 2"Ø X 7' OSMOSE TREATED POSTS OR 7' STEEL STUDDER 'T' POSTS PAINTED GREEN. AS SPECIFIED.

PLANTING PIT SHALL BE 2X WIDTH OF ROOTBALL MIN.

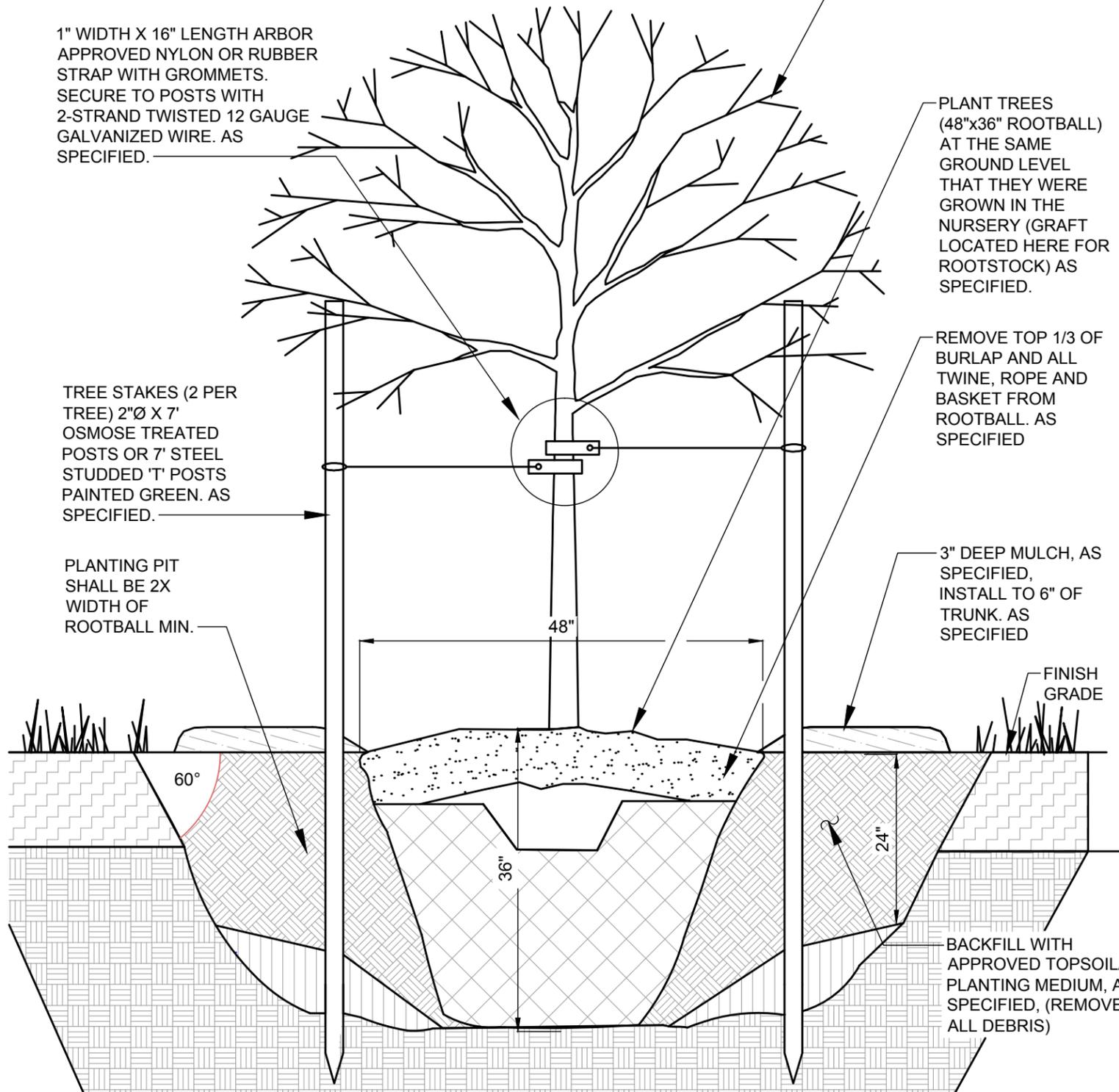
PRUNE BRANCHES, IF BROKEN OR DAMAGED

PLANT TREES (48"x36" ROOTBALL) AT THE SAME GROUND LEVEL THAT THEY WERE GROWN IN THE NURSERY (GRAFT LOCATED HERE FOR ROOTSTOCK) AS SPECIFIED.

REMOVE TOP 1/3 OF BURLAP AND ALL TWINE, ROPE AND BASKET FROM ROOTBALL. AS SPECIFIED

3" DEEP MULCH, AS SPECIFIED, INSTALL TO 6" OF TRUNK. AS SPECIFIED

BACKFILL WITH APPROVED TOPSOIL/PLANTING MEDIUM, AS SPECIFIED, (REMOVE ALL DEBRIS)



NOTES:

1. REMOVE BURLAP, TWINE, ROPE AND BASKET FROM TOP AND SIDES OF ROOT BALL OR CAREFULLY REMOVE CONTAINER.
2. IMPORTANT : ROOT FLARE ZONE MAY BE BELOW TOP OF BURLAPPED ROOT BALL. REMOVE ROOT BALL SOIL DOWN TO ROOT FLARE ZONE.

SET ROOT FLARE ZONE AT FINISH GRADE

BACKFILL WITH APPROVED TOPSOIL/PLANTING MEDIUM, AS SPECIFIED, (REMOVE ALL DEBRIS)

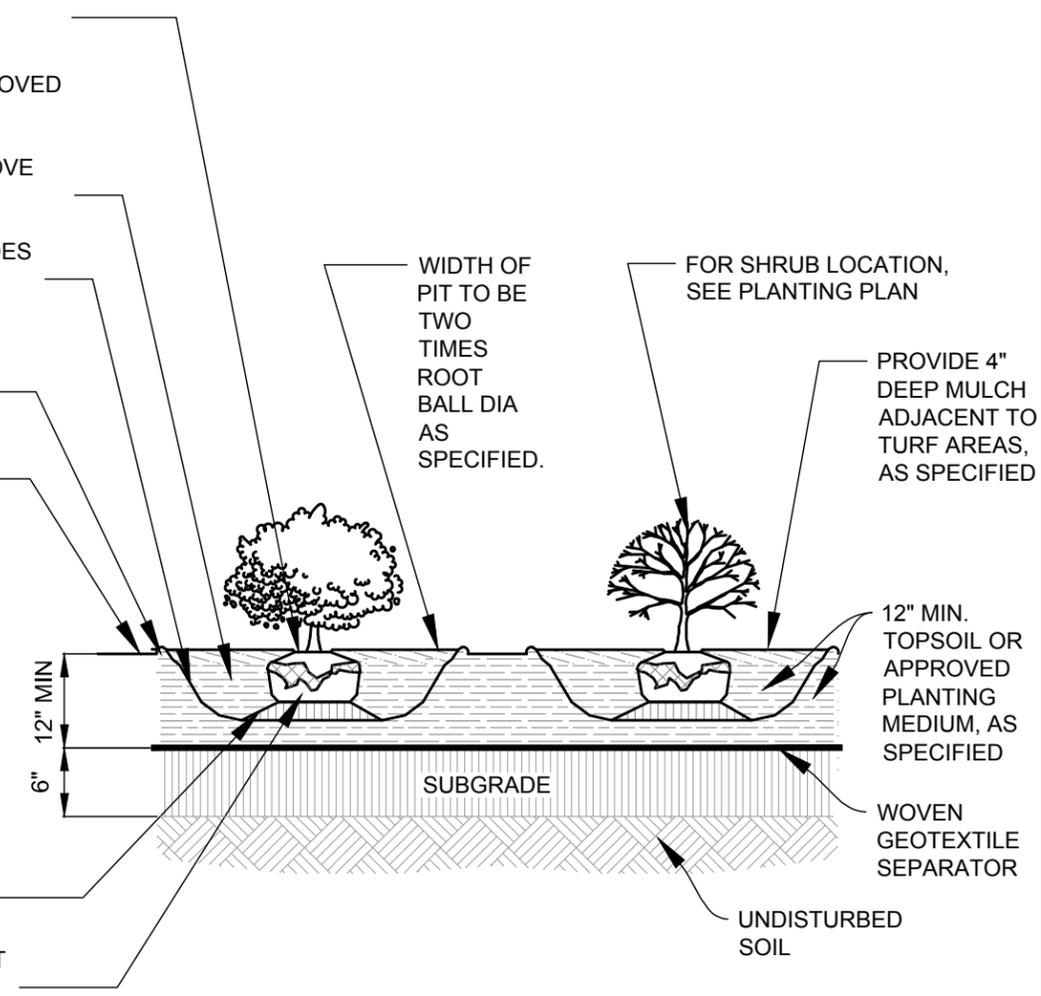
SLOPE & SCARIFY SIDES OF PLANTING HOLE

3" HIGH TOPSOIL SAUCER FOR INDIVIDUAL PLANTS

REFER TO PLANS FOR FINISH GRADE

SET ROOT BALL ON UNDISTURBED SOIL "CONE" AT BOTTOM OF PIT AS SPECIFIED.

ROOT BALL, PROTECT DURING PLANTING



1 DECIDUOUS TREE PLANTING DETAIL

2 SHRUB PLANTING DETAIL

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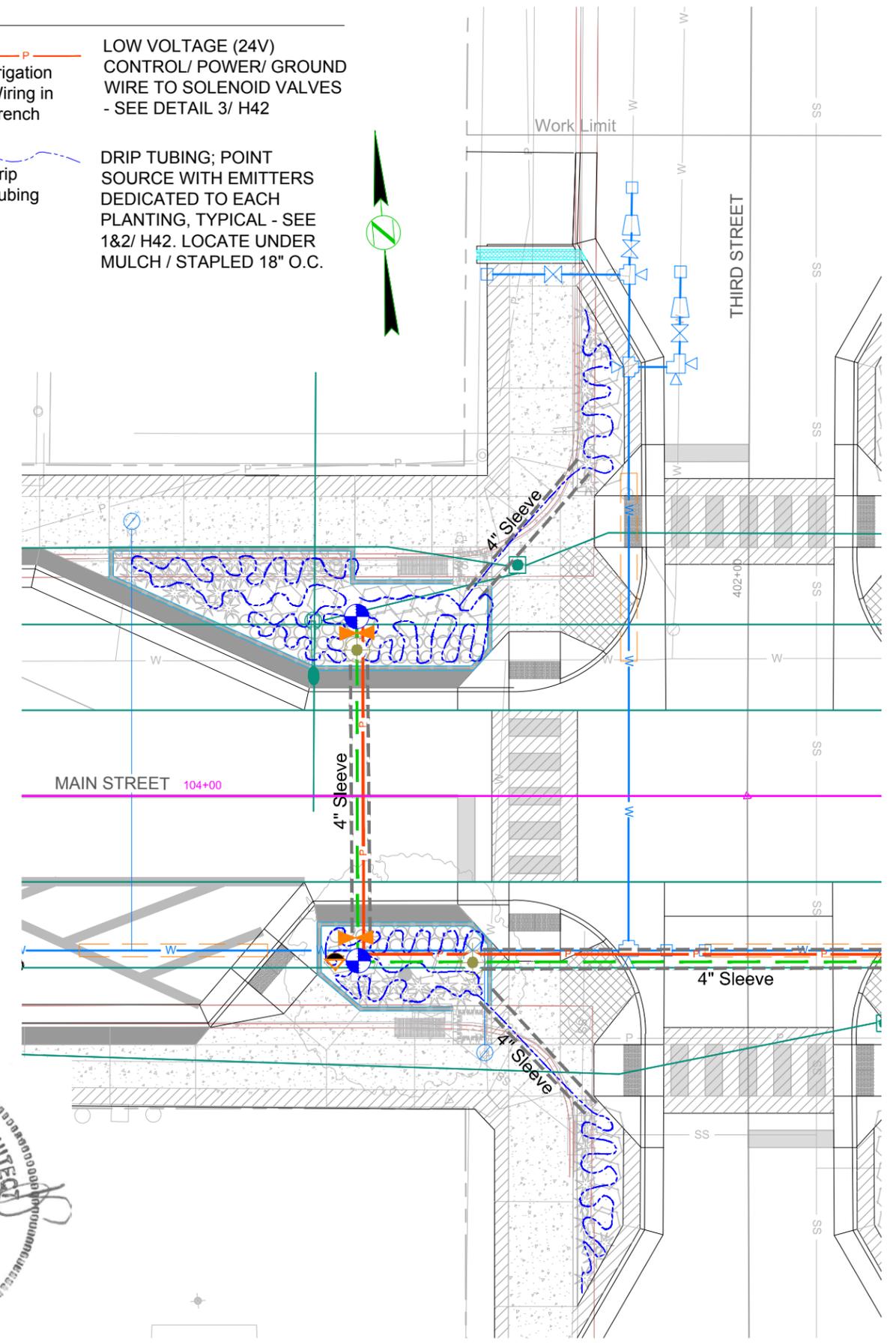
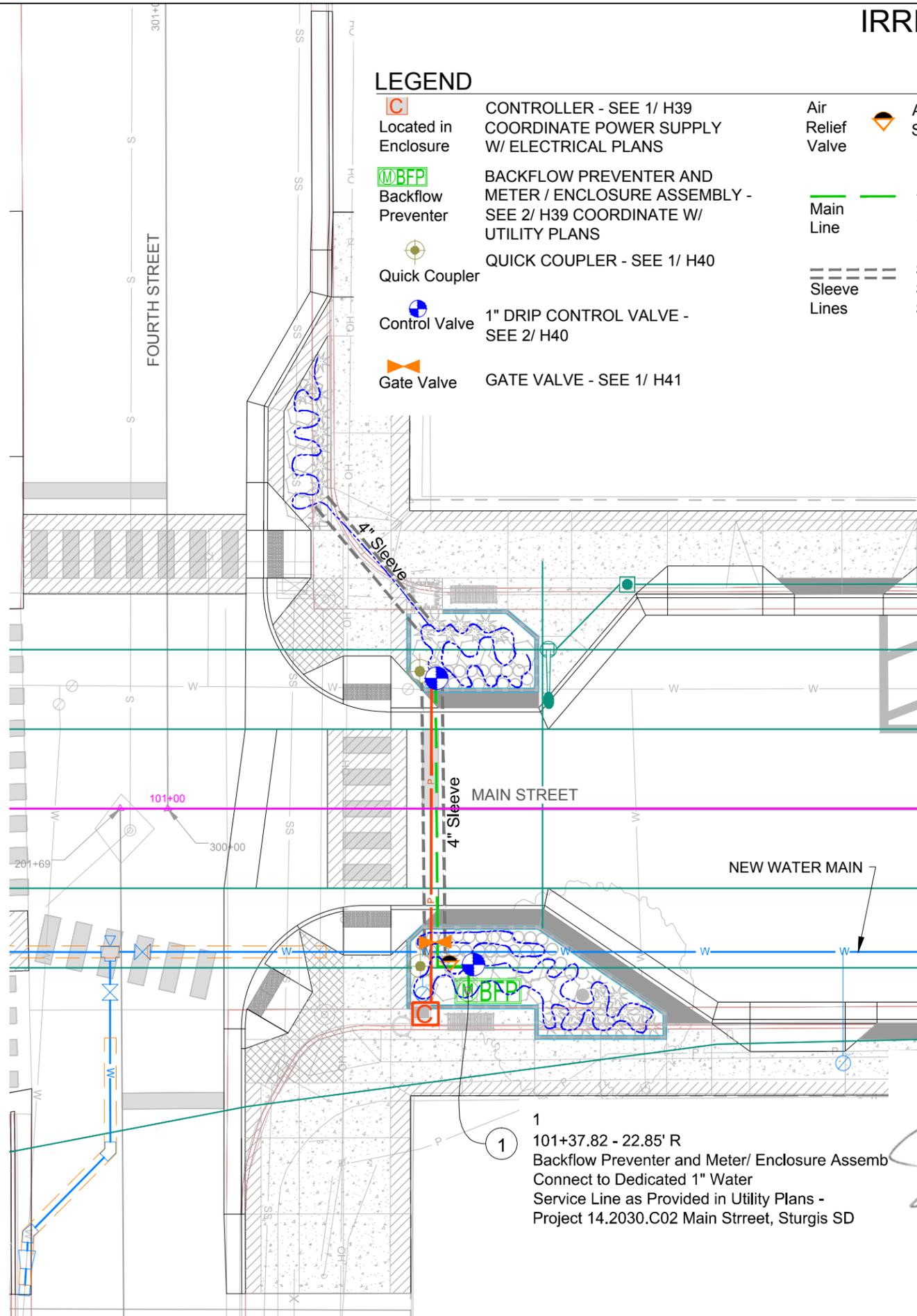
IRRIGATION PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H34	TOTAL SHEETS H51
Plotting Date: 10/15/2015			

LEGEND

- | | | | | | |
|---|--|---|---|---|---|
|  | CONTROLLER - SEE 1/ H39 |  | AIR RELIEF VALVE - SEE 2/ H41 |  | LOW VOLTAGE (24V) CONTROL/ POWER/ GROUND WIRE TO SOLENOID VALVES - SEE DETAIL 3/ H42 |
| Located in Enclosure | COORDINATE POWER SUPPLY W/ ELECTRICAL PLANS | | | | |
|  | BACKFLOW PREVENTER AND METER / ENCLOSURE ASSEMBLY - SEE 2/ H39 COORDINATE W/ UTILITY PLANS |  | 1" MAIN LINE - SEE 3/ H42 |  | DRIP TUBING; POINT SOURCE WITH EMITTERS DEDICATED TO EACH PLANTING, TYPICAL - SEE 1&2/ H42. LOCATE UNDER MULCH / STAPLED 18" O.C. |
| Backflow Preventer | | | | | |
|  | QUICK COUPLER - SEE 1/ H40 |  | SLEEVE LINES - 4" SCH 80 PVC - SEE 3/ H42 | | |
| Quick Coupler | | | | | |
|  | 1" DRIP CONTROL VALVE - SEE 2/ H40 | | | | |
| Control Valve | | | | | |
|  | GATE VALVE - SEE 1/ H41 | | | | |
| Gate Valve | | | | | |



1
101+37.82 - 22.85' R
Backflow Preventer and Meter/ Enclosure Assemb
Connect to Dedicated 1" Water
Service Line as Provided in Utility Plans -
Project 14.2030.C02 Main Street, Sturgis SD



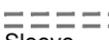
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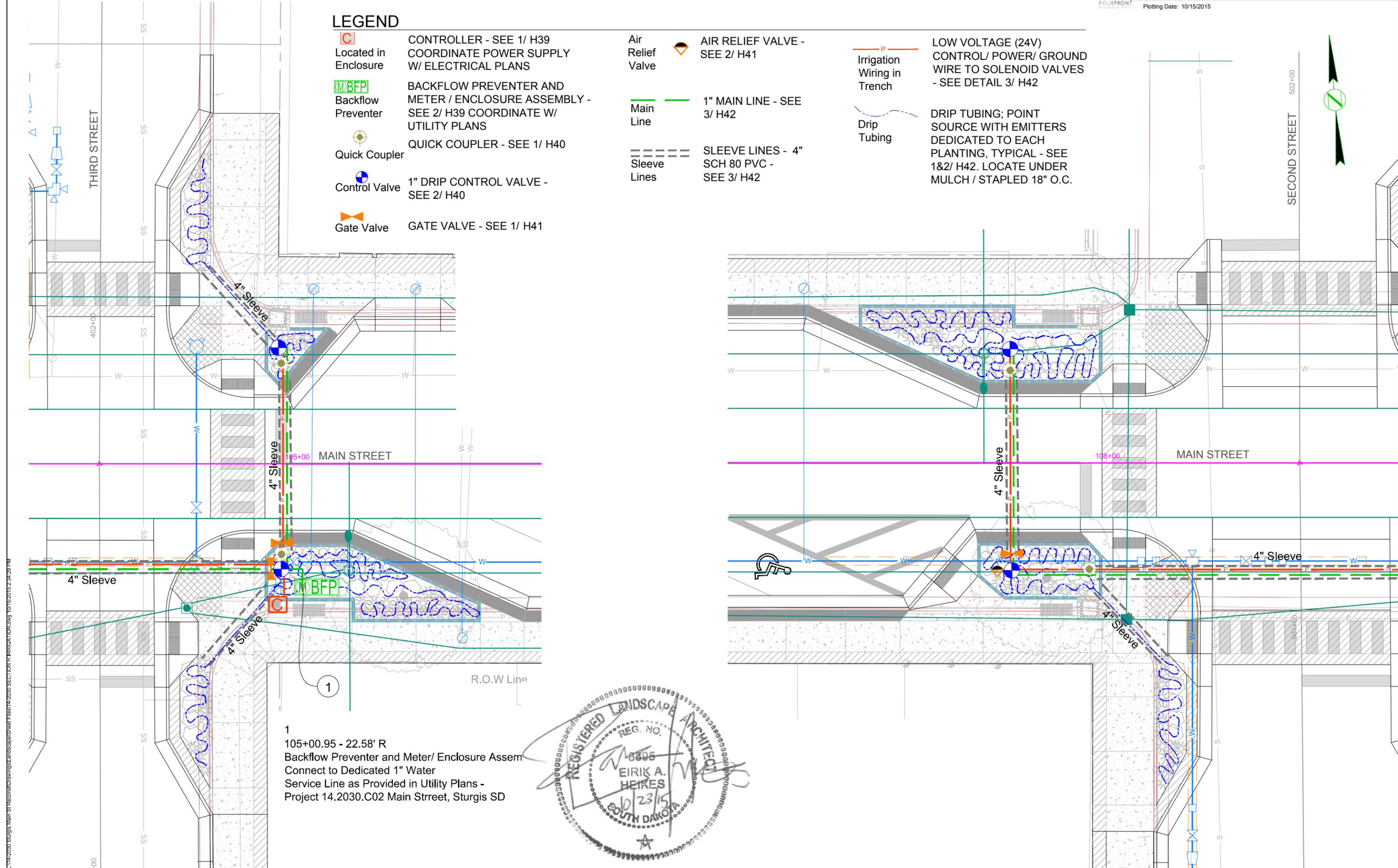
IRRIGATION PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN TRC Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H35	H51

LEGEND

- | | | | | | |
|---|---|---|---|---|--|
|  | CONTROLLER - SEE 1/ H39
Located in Enclosure
COORDINATE POWER SUPPLY
W/ ELECTRICAL PLANS |  | AIR RELIEF VALVE -
SEE 2/ H41 |  | LOW VOLTAGE (24V)
CONTROL/ POWER/ GROUND
WIRE TO SOLENOID VALVES
- SEE DETAIL 3/ H42 |
|  | BACKFLOW PREVENTER AND
METER / ENCLOSURE ASSEMBLY -
SEE 2/ H39 COORDINATE W/
UTILITY PLANS |  | 1" MAIN LINE - SEE
3/ H42 |  | DRIP TUBING; POINT
SOURCE WITH EMITTERS
DEDICATED TO EACH
PLANTING, TYPICAL - SEE
1&2/ H42. LOCATE UNDER
MULCH / STAPLED 18" O.C. |
|  | QUICK COUPLER - SEE 1/ H40 |  | SLEEVE LINES - 4"
SCH 80 PVC -
SEE 3/ H42 | | |
|  | 1" DRIP CONTROL VALVE -
SEE 2/ H40 | | | | |
|  | GATE VALVE - SEE 1/ H41 | | | | |



1
105+00.95 - 22.58' R
Backflow Preventer and Meter/ Enclosure Assem
Connect to Dedicated 1" Water
Service Line as Provided in Utility Plans -
Project 14.2030.C02 Main Street, Sturgis SD



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IRRIGATION PLAN

FOR BIDDING PURPOSES ONLY

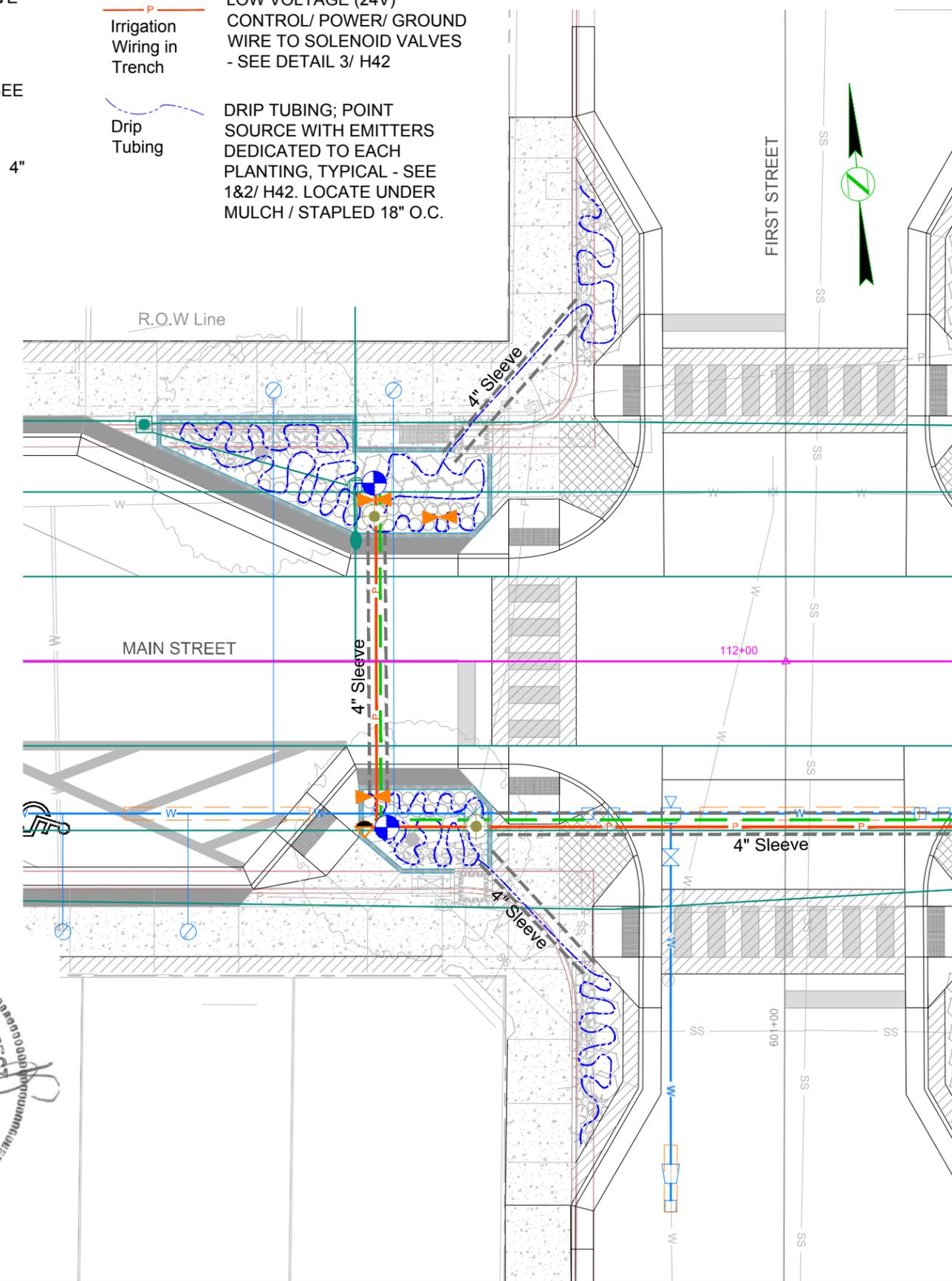
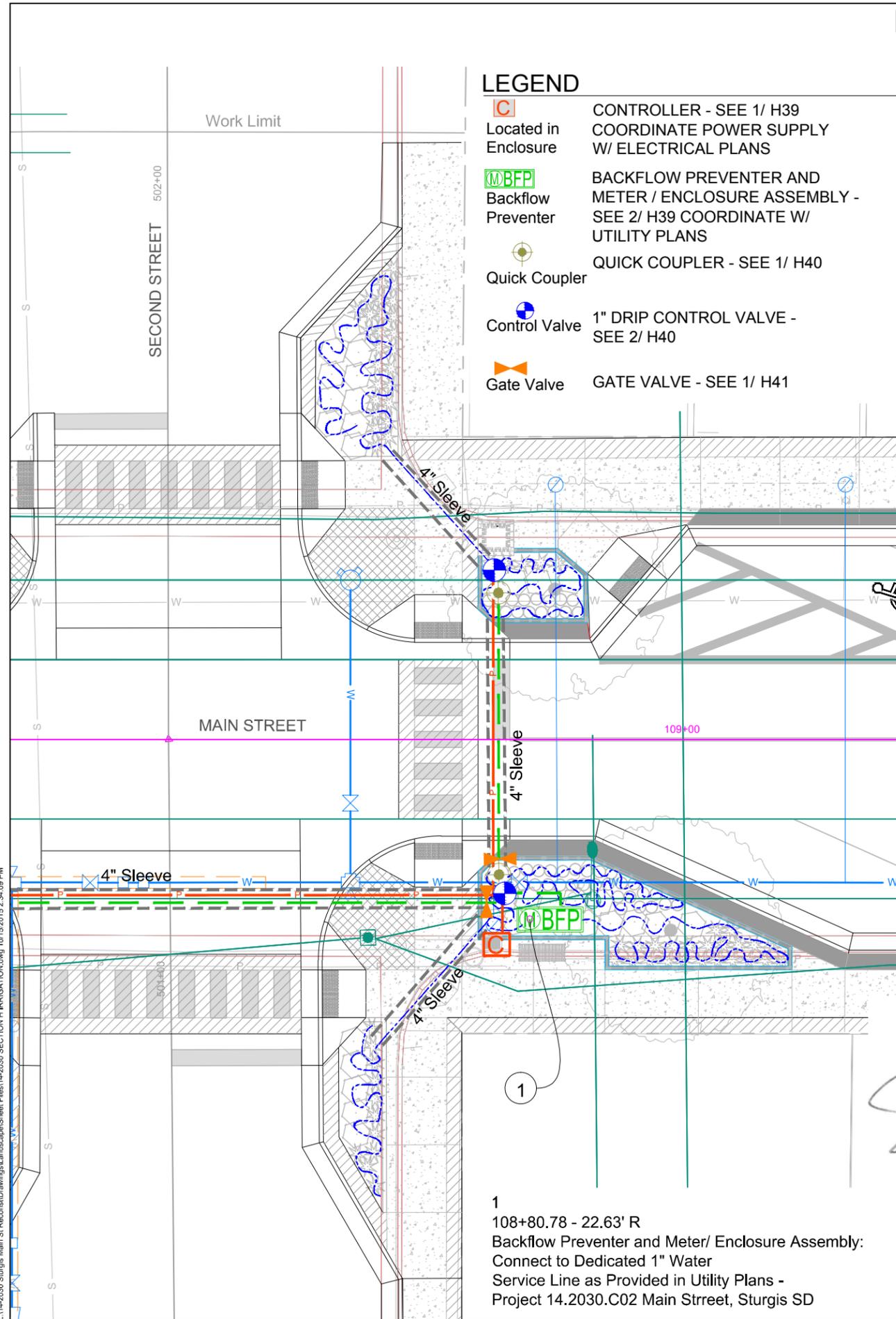
STATE OF SOUTH DAKOTA FOURFRONT DESIGN INC. Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H36	H51

LEGEND

- CONTROLLER - SEE 1/ H39
Located in Enclosure COORDINATE POWER SUPPLY W/ ELECTRICAL PLANS
- BACKFLOW PREVENTER AND METER / ENCLOSURE ASSEMBLY - SEE 2/ H39 COORDINATE W/ UTILITY PLANS
- QUICK COUPLER - SEE 1/ H40
- Control Valve 1" DRIP CONTROL VALVE - SEE 2/ H40
- Gate Valve GATE VALVE - SEE 1/ H41

- Air Relief Valve AIR RELIEF VALVE - SEE 2/ H41
- Main Line 1" MAIN LINE - SEE 3/ H42
- Sleeve Lines SLEEVE LINES - 4" SCH 80 PVC - SEE 3/ H42

- Irrigation Wiring in Trench LOW VOLTAGE (24V) CONTROL/ POWER/ GROUND WIRE TO SOLENOID VALVES - SEE DETAIL 3/ H42
- Drip Tubing DRIP TUBING; POINT SOURCE WITH EMITTERS DEDICATED TO EACH PLANTING, TYPICAL - SEE 1&2/ H42. LOCATE UNDER MULCH / STAPLED 18" O.C.



1
108+80.78 - 22.63' R
Backflow Preventer and Meter/ Enclosure Assembly:
Connect to Dedicated 1" Water Service Line as Provided in Utility Plans - Project 14.2030.C02 Main Street, Sturgis SD



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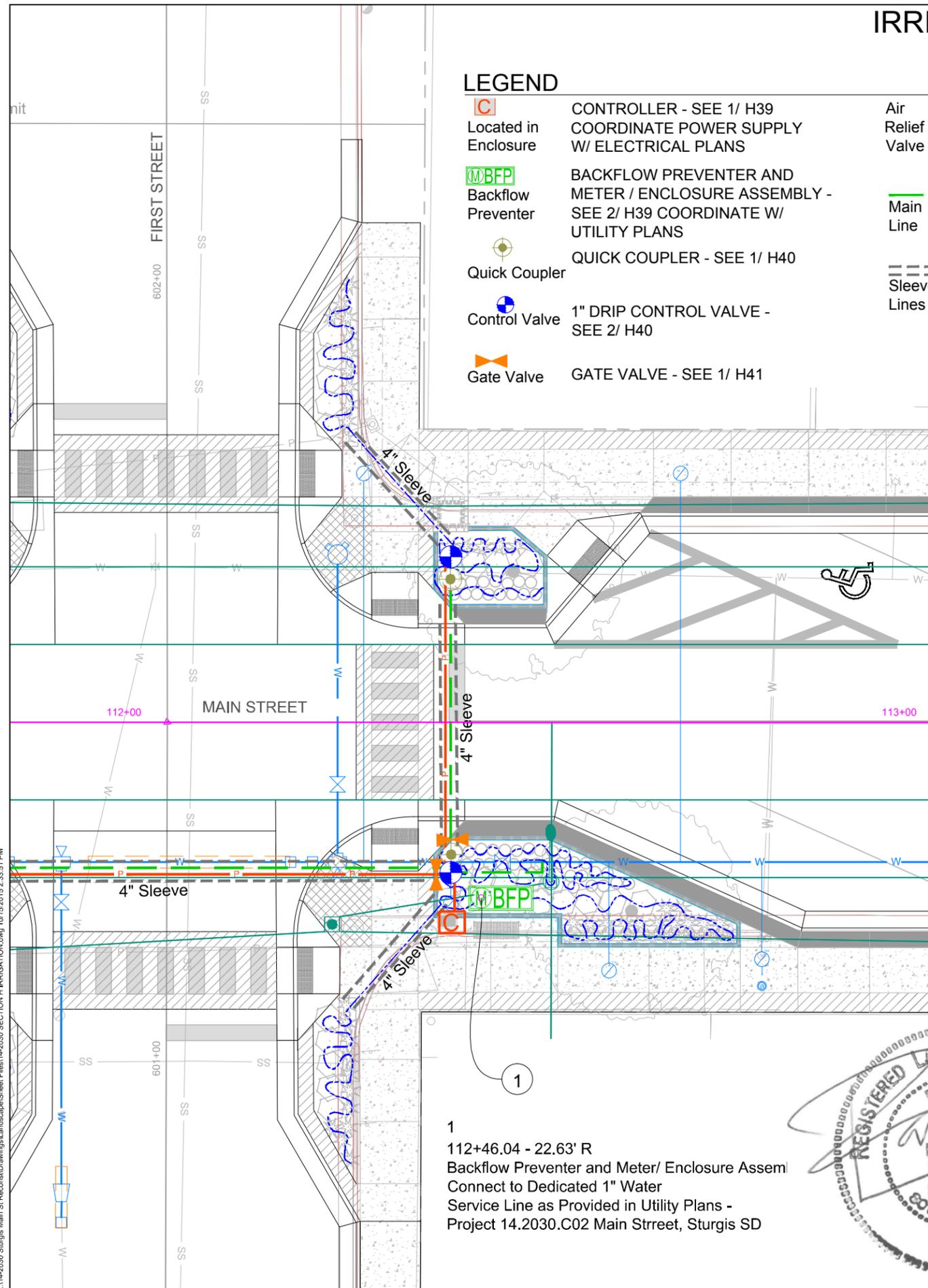
IRRIGATION PLAN

FOR BIDDING PURPOSES ONLY

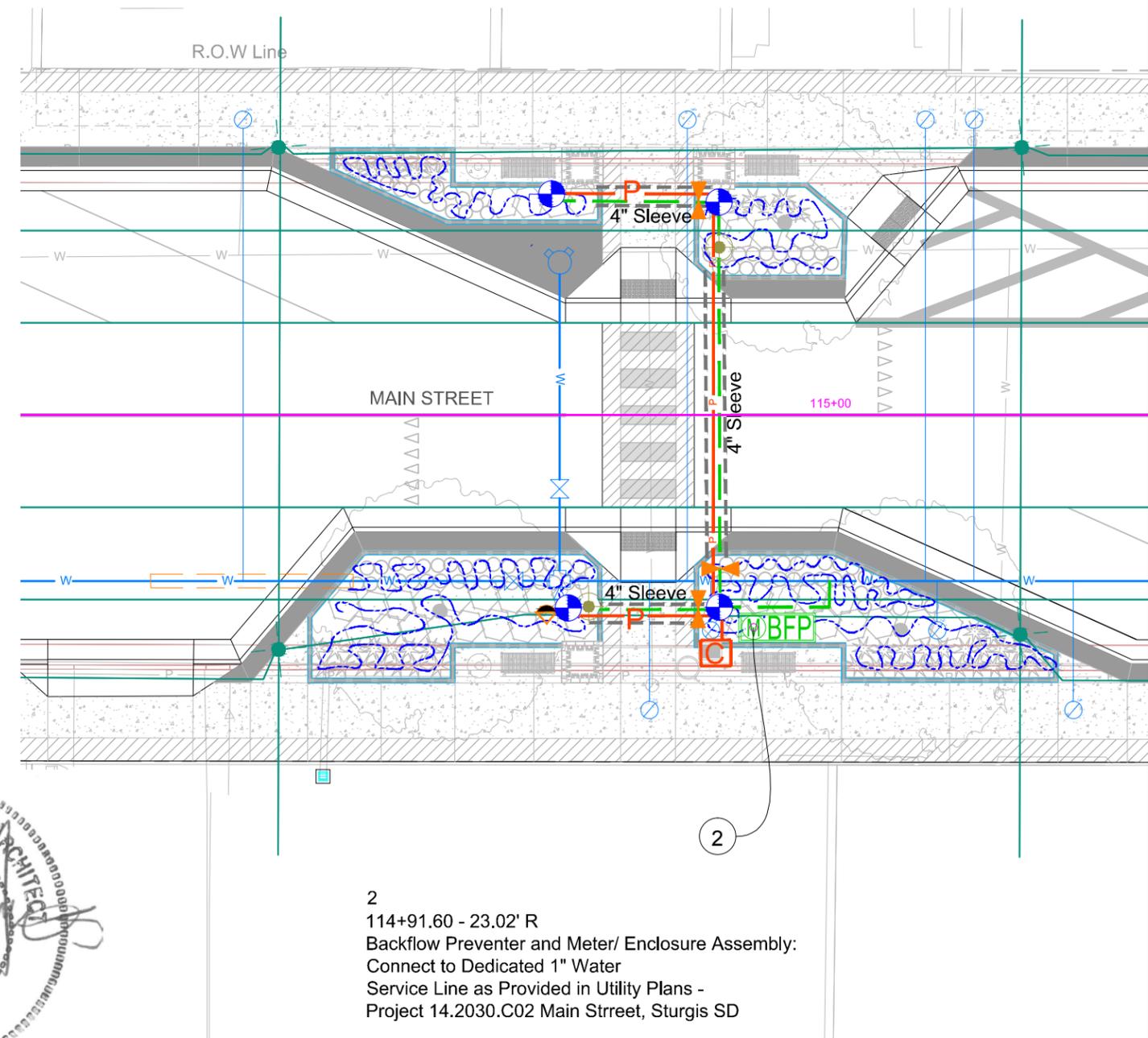
STATE OF SOUTH DAKOTA FOURFRONT DESIGN INC. Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H37	H51

LEGEND

- | | | | | | |
|---|---|---|---|---|--|
|  | CONTROLLER - SEE 1/ H39
Located in Enclosure
COORDINATE POWER SUPPLY
W/ ELECTRICAL PLANS |  | AIR RELIEF VALVE -
SEE 2/ H41 |  | LOW VOLTAGE (24V)
CONTROL/ POWER/ GROUND
WIRE TO SOLENOID VALVES
- SEE DETAIL 3/ H42 |
|  | BACKFLOW PREVENTER AND
METER / ENCLOSURE ASSEMBLY -
SEE 2/ H39 COORDINATE W/
UTILITY PLANS |  | 1" MAIN LINE - SEE
3/ H42 |  | DRIP TUBING; POINT
SOURCE WITH EMITTERS
DEDICATED TO EACH
PLANTING, TYPICAL - SEE
1&2/ H42. LOCATE UNDER
MULCH / STAPLED 18" O.C. |
|  | QUICK COUPLER - SEE 1/ H40 |  | SLEEVE LINES - 4"
SCH 80 PVC -
SEE 3/ H42 | | |
|  | 1" DRIP CONTROL VALVE -
SEE 2/ H40 | | | | |
|  | GATE VALVE - SEE 1/ H41 | | | | |



1
112+46.04 - 22.63' R
Backflow Preventer and Meter/ Enclosure Assem
Connect to Dedicated 1" Water
Service Line as Provided in Utility Plans -
Project 14.2030.C02 Main Street, Sturgis SD



2
114+91.60 - 23.02' R
Backflow Preventer and Meter/ Enclosure Assembly:
Connect to Dedicated 1" Water
Service Line as Provided in Utility Plans -
Project 14.2030.C02 Main Street, Sturgis SD



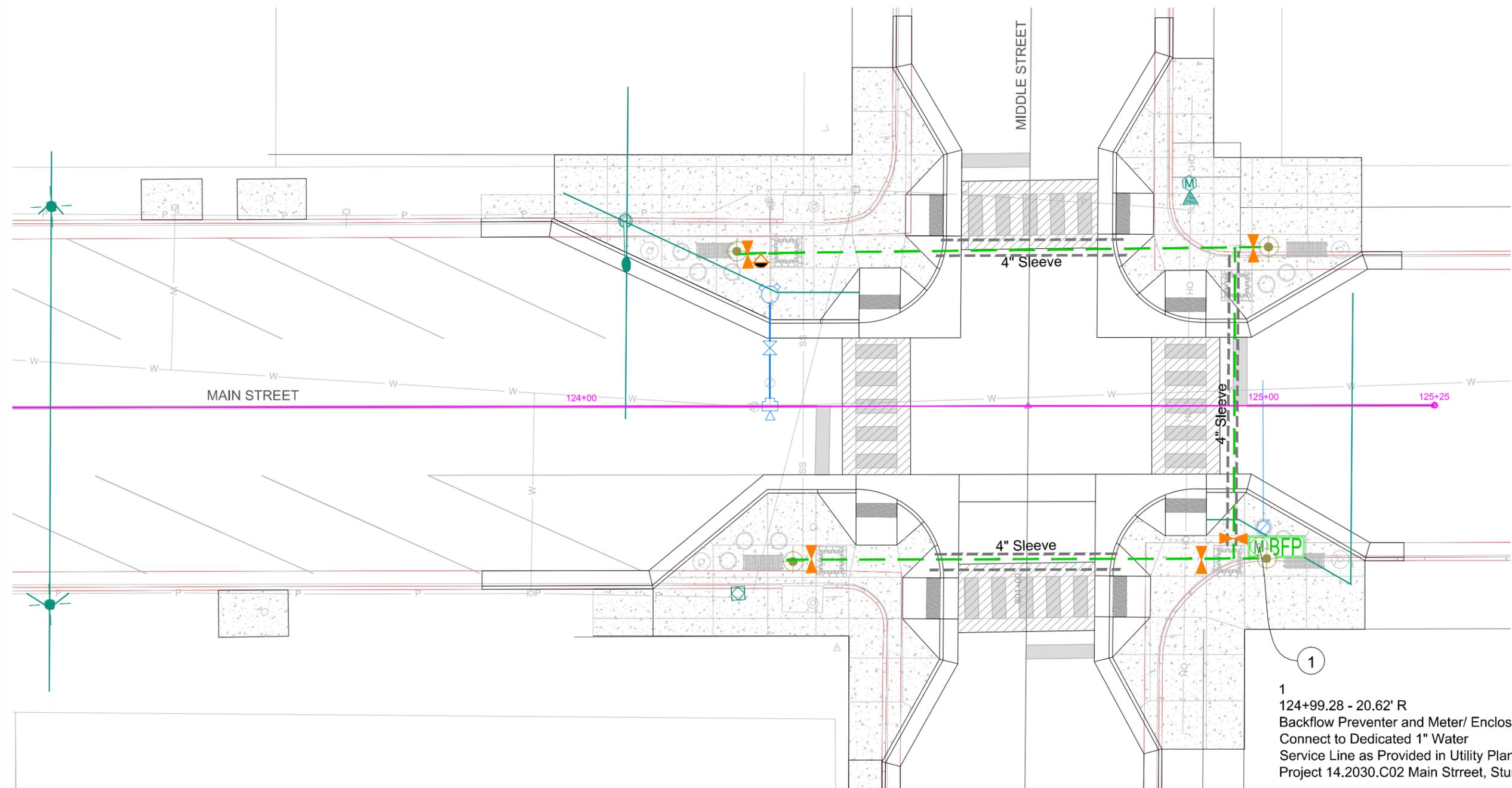
IRRIGATION PLAN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN INC. Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H38	H51

LEGEND

- | | | | | | |
|---|--|---|---|---|---|
|  | CONTROLLER - SEE 1/ H39
Located in Enclosure
COORDINATE POWER SUPPLY W/ ELECTRICAL PLANS |  | AIR RELIEF VALVE - SEE 2/ H41 |  | LOW VOLTAGE (24V) CONTROL/ POWER/ GROUND WIRE TO SOLENOID VALVES - SEE DETAIL 3/ H42 |
|  | BACKFLOW PREVENTER AND METER / ENCLOSURE ASSEMBLY - SEE 2/ H39 COORDINATE W/ UTILITY PLANS |  | 1" MAIN LINE - SEE 3/ H42 |  | DRIP TUBING; POINT SOURCE WITH EMITTERS DEDICATED TO EACH PLANTING, TYPICAL - SEE 1&2/ H42. LOCATE UNDER MULCH / STAPLED 18" O.C. |
|  | QUICK COUPLER - SEE 1/ H40 |  | SLEEVE LINES - 4" SCH 80 PVC - SEE 3/ H42 | | |
|  | 1" DRIP CONTROL VALVE - SEE 2/ H40 | | | | |
|  | GATE VALVE - SEE 1/ H41 | | | | |

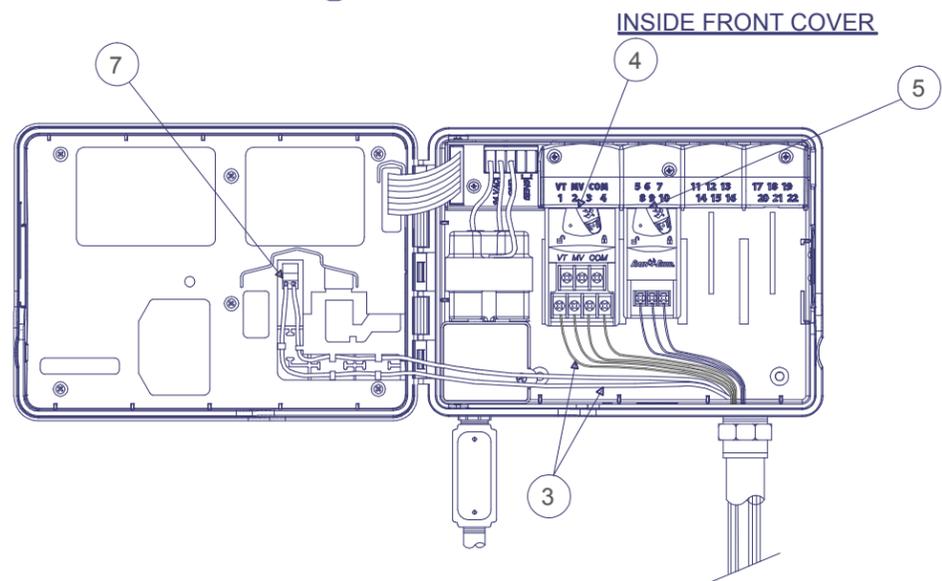
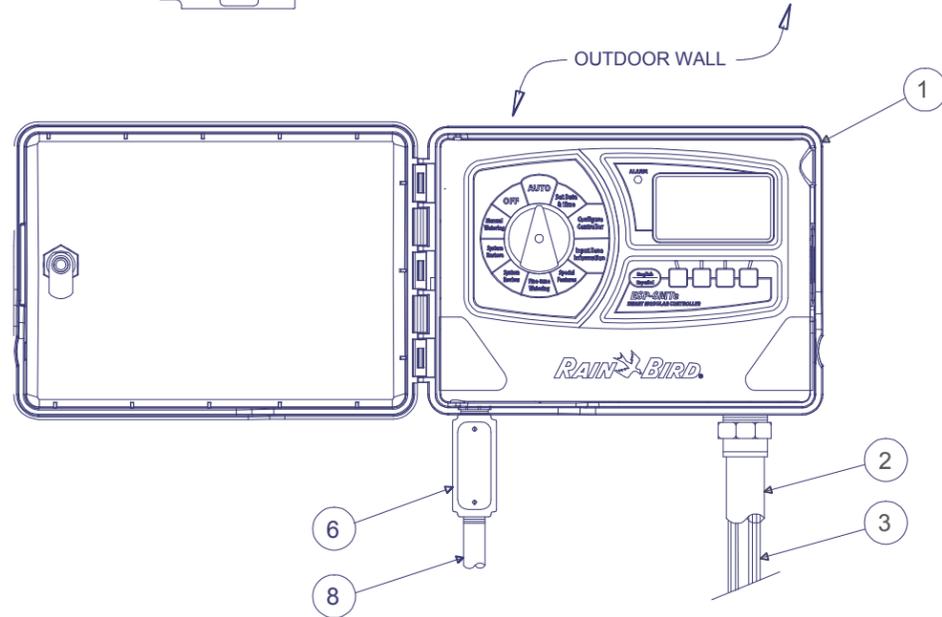
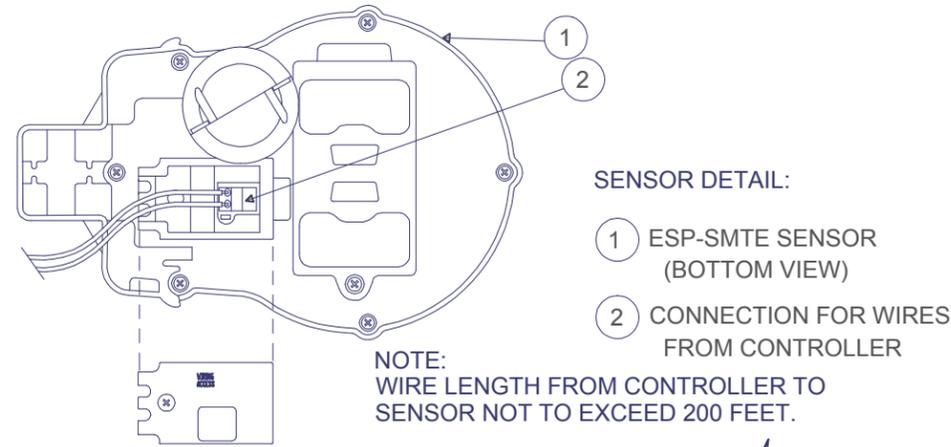


1
124+99.28 - 20.62' R
Backflow Preventer and Meter/ Enclosure Assembly:
Connect to Dedicated 1" Water Service Line as Provided in Utility Plans - Project 14.2030.C02 Main Street, Sturgis SD

IRRIGATION DETAILS

FOR BIDDING PURPOSES ONLY

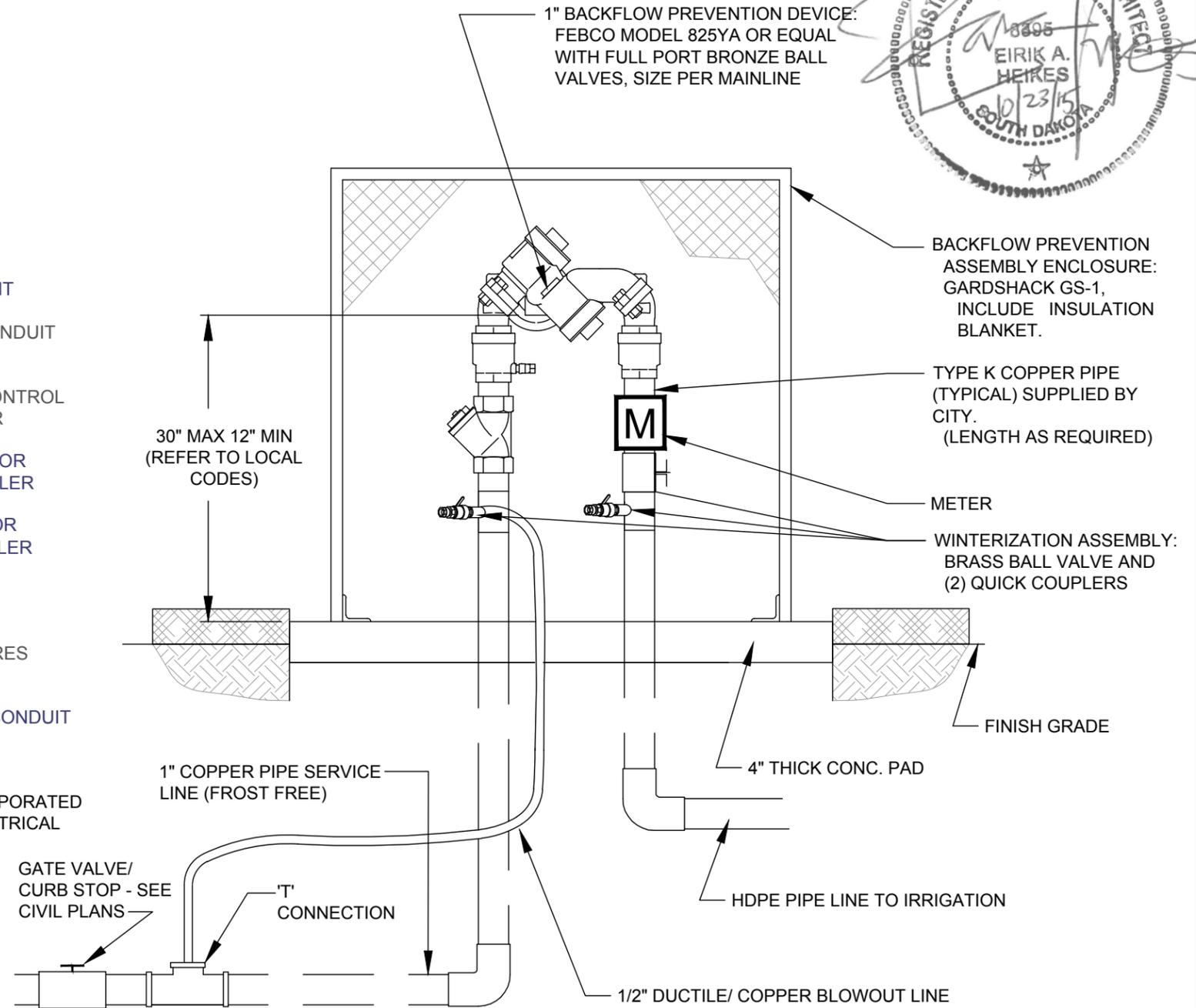
STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H39	TOTAL SHEETS H51
Plotting Date: 10/15/2015			



GENERAL NOTES:

- 1 RAIN BIRD ESP4SMTE OUTSIDE WALL MOUNT
- 2 1-INCH PVC SCH 40 CONDUIT AND FITTINGS
- 3 WIRES TO REMOTE CONTROL VALVES AND SENSOR
- 4 STANDARD MODULE FOR 4-STATION CONTROLLER
- 5 OPTIONAL MODULE FOR 7-STATION CONTROLLER
- 6 JUNCTION BOX
- 7 CONNECTION FOR WIRES FROM SENSOR
- 8 1/2-INCH PVC SCH 40 CONDUIT TO POWER SUPPLY

NOTE:
CONTROLLER TO BE INCORPORATED INTO PEDESTAL - SEE ELECTRICAL PLANS.



- NOTES:**
- 1. SIZE OF BACK-FLOW PREVENTION ASSEMBLY IS 1" FOR ALL (6) LOCATIONS.
 - 2. FURNISH FITTINGS AND PIPING SIZED IDENTICALLY WITH NOMINAL BACK-FLOW PREVENTION DEVICE.
 - 3. INSTALL BACK-FLOW PREVENTION ASSEMBLY ENCLOSURE AND CONCRETE PAD PER MANUFACTURER'S RECOMMENDATIONS.
 - 4. INSTALL WINTERIZATION ASSEMBLY DOWNSTREAM OF BACK-FLOW ASSEMBLY, ANGLED TO ALLOW AIR HOSE CONNECTION.

1 ESP-SMTE SMART CONTROL SYSTEM - OUTDOOR MODEL
NOT TO SCALE

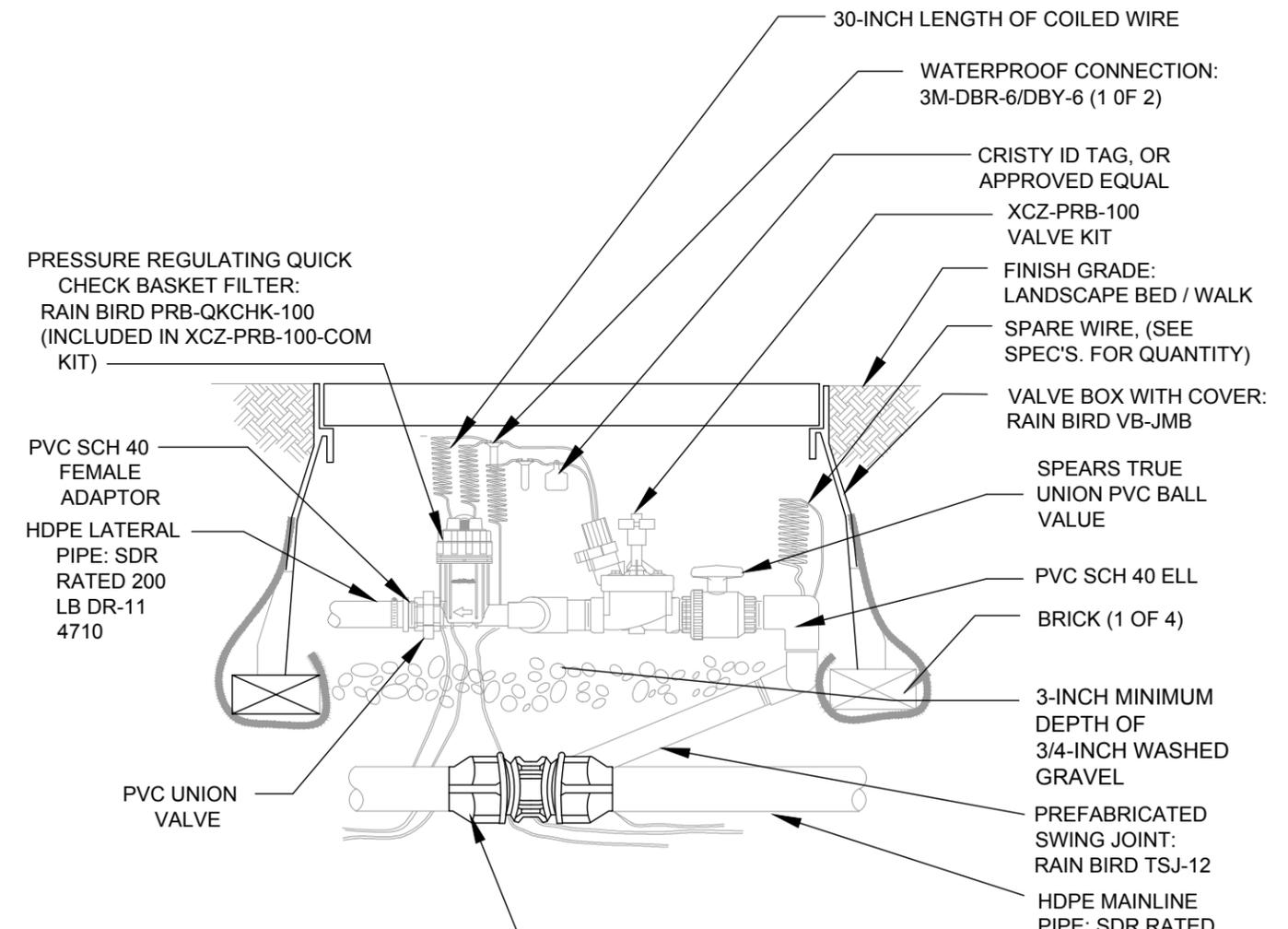
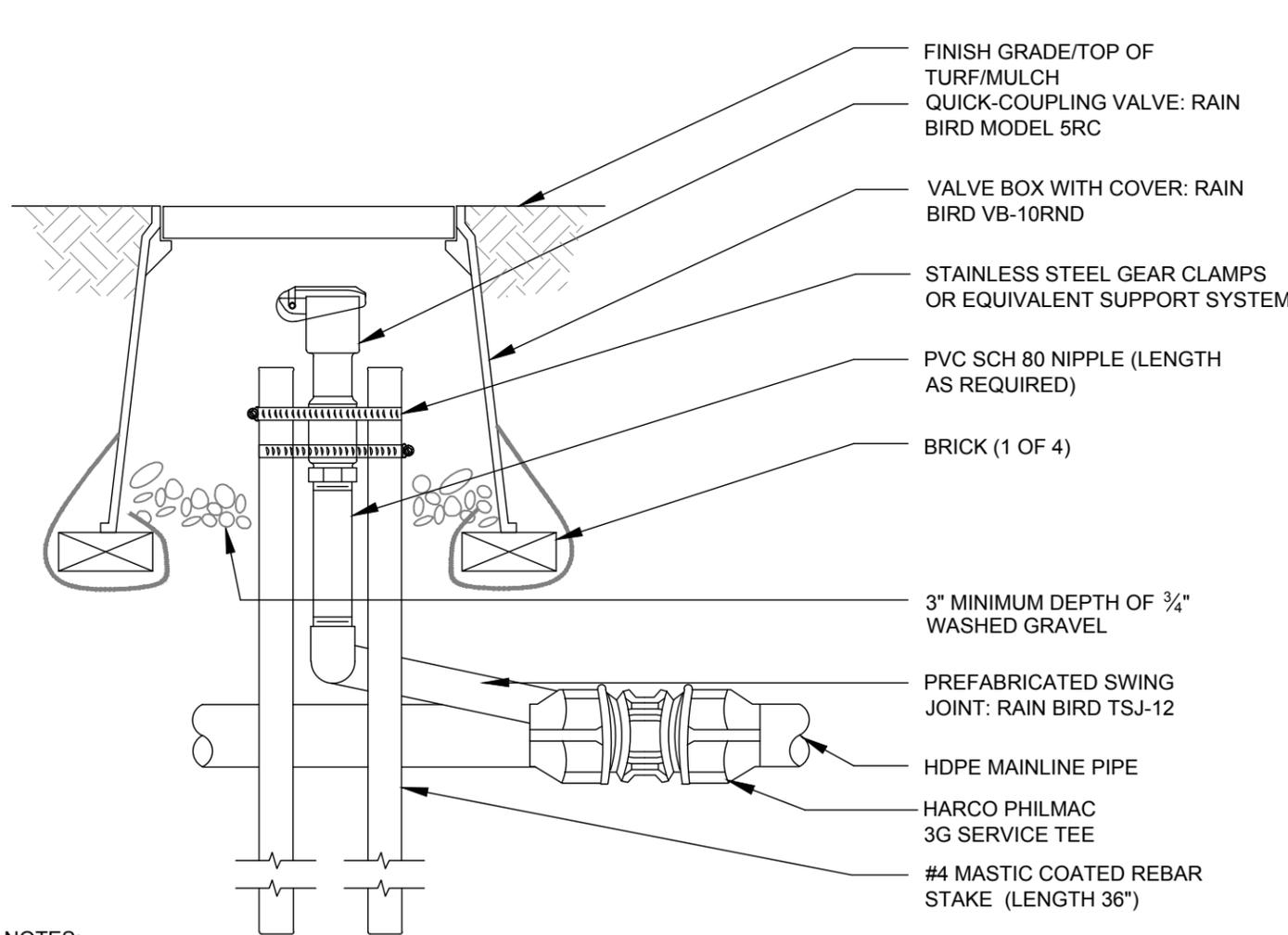
2 FEBCO MODEL 825YA
RECUCED PRESSURE ASSEMBLY - NRS GATES
OUTDOOR FREEZE PROTECTION INSTALLATION
NOT TO SCALE

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IRRIGATION DETAILS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA FOURFRONT DESIGN LLC Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H40	H51



NOTES:

1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
2. INSTALL SWING JOINT LAY ARM BETWEEN 30 AND 45 DEGREES OF LATERAL PIPE IN ORDER TO ABSORB DOWNWARD IMPACT. IF LATERAL PIPE IS NOT INSTALLED AT SPECIFIED DEPTH, CONSULT PROJECT MANAGER PRIOR TO INSTALLATION OF SWING JOINT.
3. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
4. MAINLINE SIZES 3-INCH AND LARGER REQUIRE THE USE OF DUCTILE IRON FITTINGS.

NOTES:

1. USE BASKET FILTER FOR VALVES.
2. USE PRESSURE REGULATORS FOR VALVES.
3. USE BASKET FILTER FOR VALVES.
4. USE VALVE BOX EXTENSIONS AS NECESSARY TO ACHIEVE MINIMUM DIMENSIONS ABOVE AND BELOW ASSEMBLY.
5. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.

1 QUICK COUPLER VALVE
NOT TO SCALE

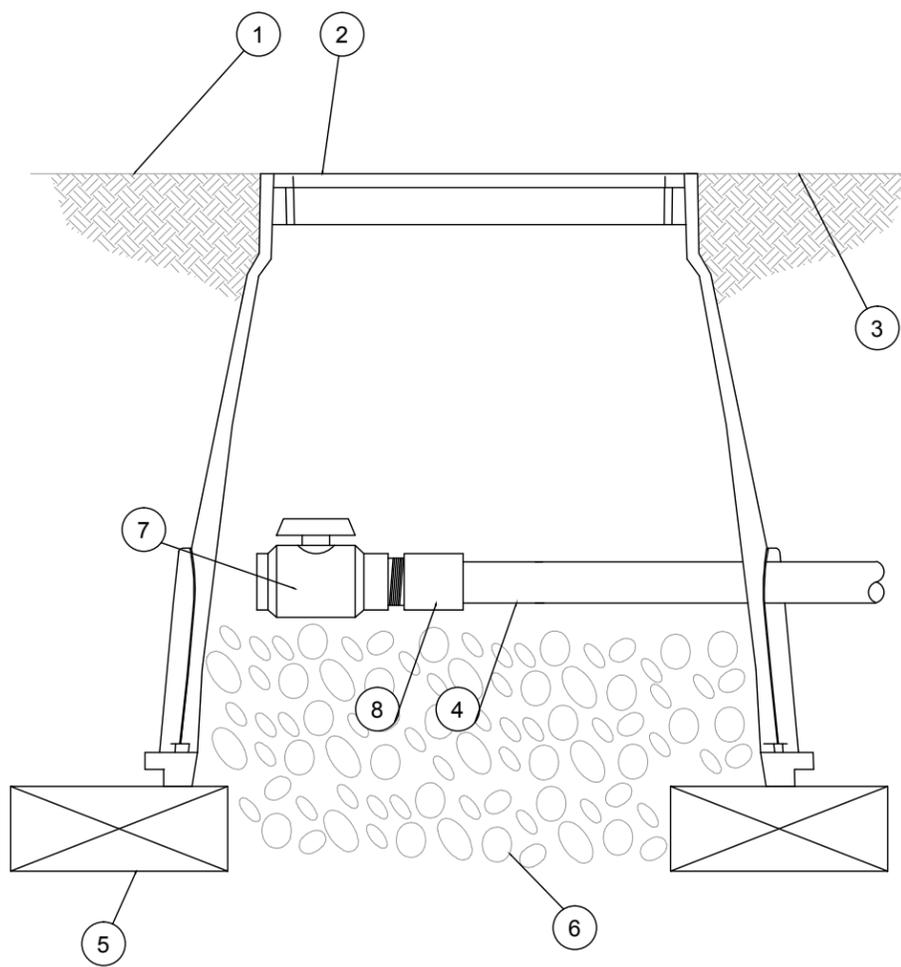
2 DRIP REMOTE CONTROL VALVE
NOT TO SCALE

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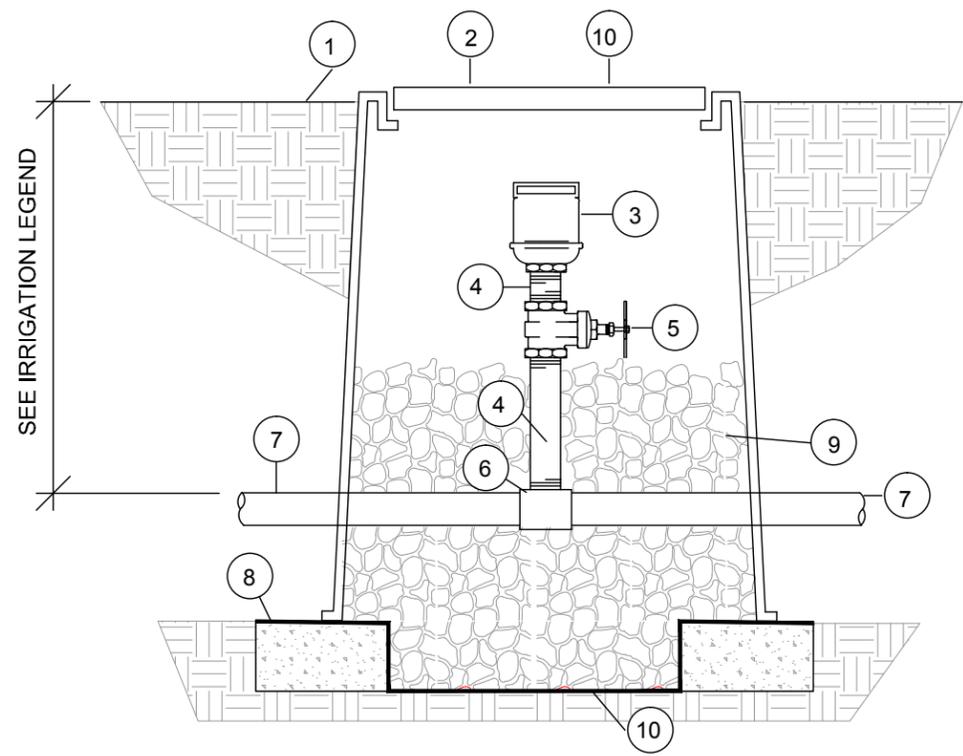
IRRIGATION DETAILS

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STATE OF SOUTH DAKOTA FOURFRONT DESIGN LLC Plotting Date: 10/15/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H41	H51



- 1 FINISH GRADE
- 2 SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
- 3 FINISH GRADE
- 4 HDPE HEADER PIPE OR DRIP TUBE
- 5 BRICK (1 OF 2)
- 6 1 CUBIC FOOT MINIMUM 3/4" WASHED GRAVEL
- 7 FLUSH VALVE 1" PVC BALL VALVE
- 8 PVC REDUCER ADAPTER (SIZE AS REQ'D)



CONSTRUCTION NOTES

- 1 FINISH GRADE
- 2 RAINBIRD VALVE BOX
- 3 AIR RELEASE VALVE (SEE LEGEND)
- 4 SCH 80 PVC NIPPLE (LENGTH AS REQUIRED)
- 5 NIBCO T-113 BRONZE GATE VALVE WITH HANDWHEEL
- 6 IRRIGATION MAINLINE TEE
- 7 HDPE MAINLINE PIPE: SDR RATED 200 LB DR-11 4710 WITH FUSED FITTINGS
- 8 8"X8"X16" SOLID CMU BLOCK
- 9 1" DIAMETER WASHED ROCK
- 10 FILTER FABRIC

GENERAL NOTES

- 1. INSTALL AN 8"X8"X16" SOLID CMU BLOCK AT EACH CORNER OF VALVE BOX.
- 2. WASHED ROCK SHALL BE INSTALLED FLUSH WITH BOTTOM OF GATE VALVE.
- 3. 4" MIN CLEARANCE BETWEEN VALVE BOX LID AND HIGHEST OBJECT IN BOX.

- NOTES:**
- 1. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
 - 2. LANDSCAPE DRILINE CAN BE USED FOR EXHAUST HEADERS FOR ZONES OF UP TO 5 G.P.M. FLOWS.
 - 3. INSTALL AT LOW POINTS OF THE SYSTEM

1 LATERAL FLUSH/ DRAIN VALVE
NOT TO SCALE

2 AIR/ VACUUM RELIEF VALVE KIT
NOT TO SCALE

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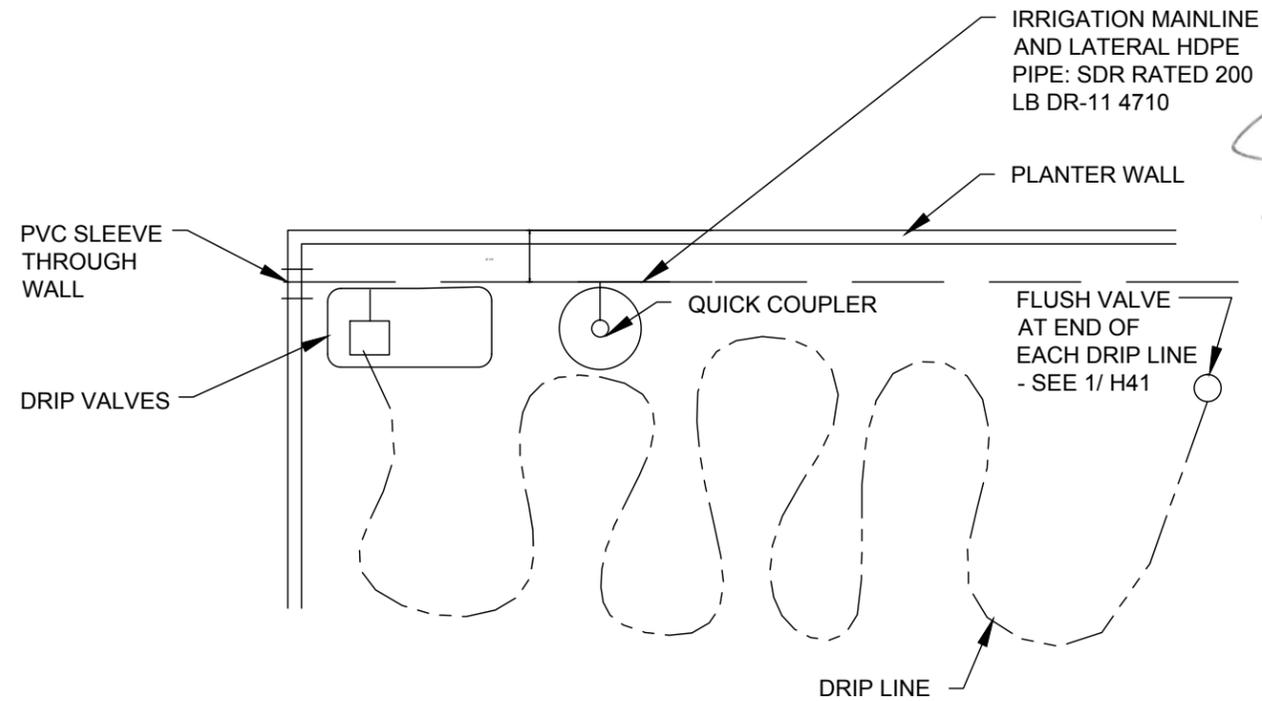
IRRIGATION DETAILS

FOR BIDDING PURPOSES ONLY

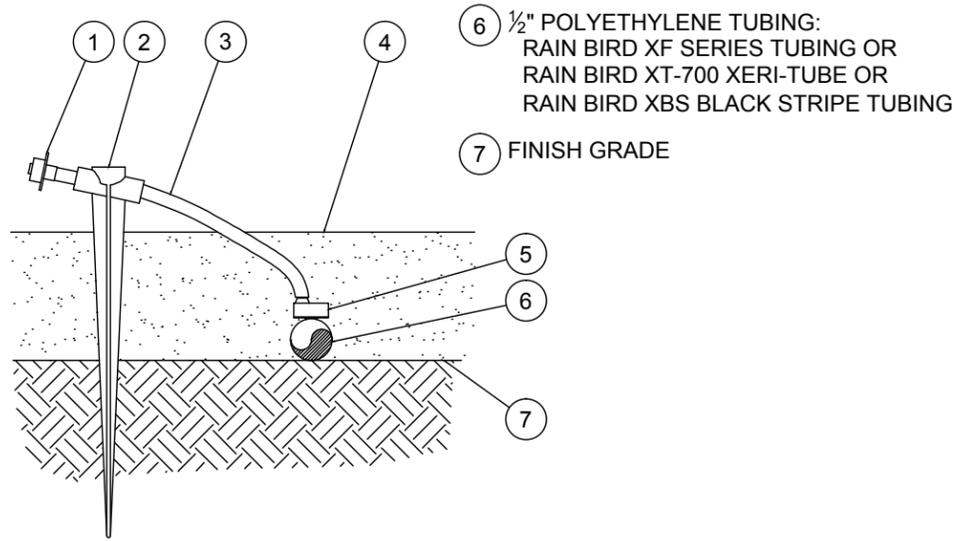
STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H42	TOTAL SHEETS H51
Plotting Date: 10/15/2015			



- ① DIFFUSER BUG CAP:
RAIN BIRD DBC-025
- ② 1/4" TUBING STAKE:
UNIVERSAL RAIN BIRD
TS-025
- ③ 1/4" DISTRIBUTION TUBING:
RAIN BIRD XQ TUBING
(LENGTH AS REQUIRED)
- ④ TOP OF MULCH
- ⑤ SINGLE-OUTLET BARB INLET X BARB
OUTLET EMITTER: RAIN BIRD
XERI-BUG EMITTER



② TYPICAL NODE IRRIGATION LAYOUT
NOT TO SCALE

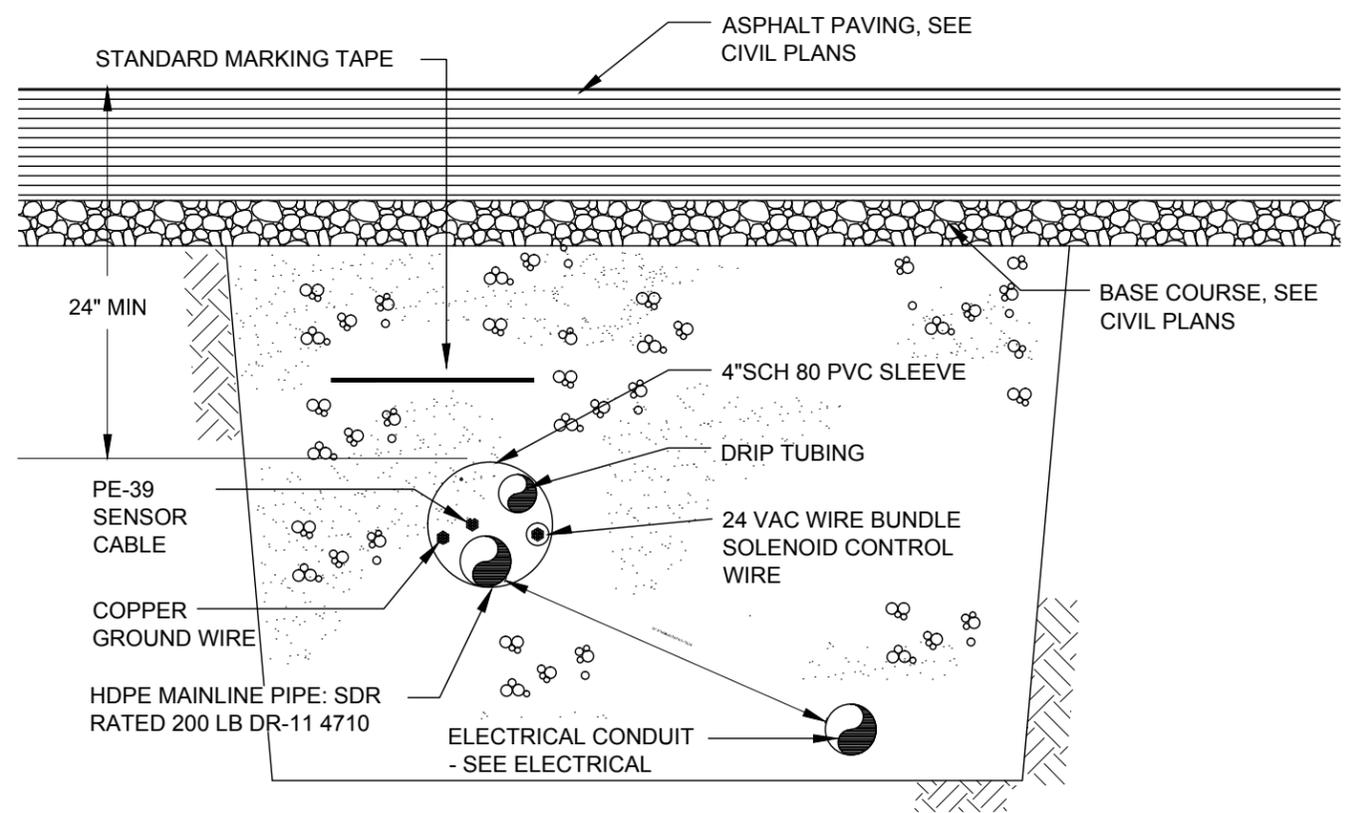


- ⑥ 1/2" POLYETHYLENE TUBING:
RAIN BIRD XF SERIES TUBING OR
RAIN BIRD XT-700 XERI-TUBE OR
RAIN BIRD XBS BLACK STRIPE TUBING
- ⑦ FINISH GRADE

NOTES:
1. USE RAIN BIRD XERIMAN TOOL XM-TOOL TO INSERT EMITTER DIRECTLY INTO 1/2" POLYETHYLENE TUBING.
2. RAIN BIRD XERI-BUG BARB X BARB EMITTERS ARE AVAILABLE IN THE FOLLOWING MODELS:
XB-05PC 0.5 GPH XB-10PC 1.0 GPH XB-20PC 2.0 GPH

XERI-BUG INTO 1/2-INCH TUBING WITH 1/4" TUBING, STAKE AND BUG CAP

① NOT TO SCALE



NOTE:
1. INSTALL 8-INCH AND LARGER PIPE AT 30-INCH MINIMUM DEPTH OF COVER.

TRENCH DETAIL - COMMON SHARED W/ ELECTRICAL AND IRRIGATION

③ NOT TO SCALE

IRRIGATION AND LANDSCAPE POWER CONDUIT LAYOUT

MAIN STREET AND FOURTH STREET

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H43	H51

Plotting Date: 8/25/2015

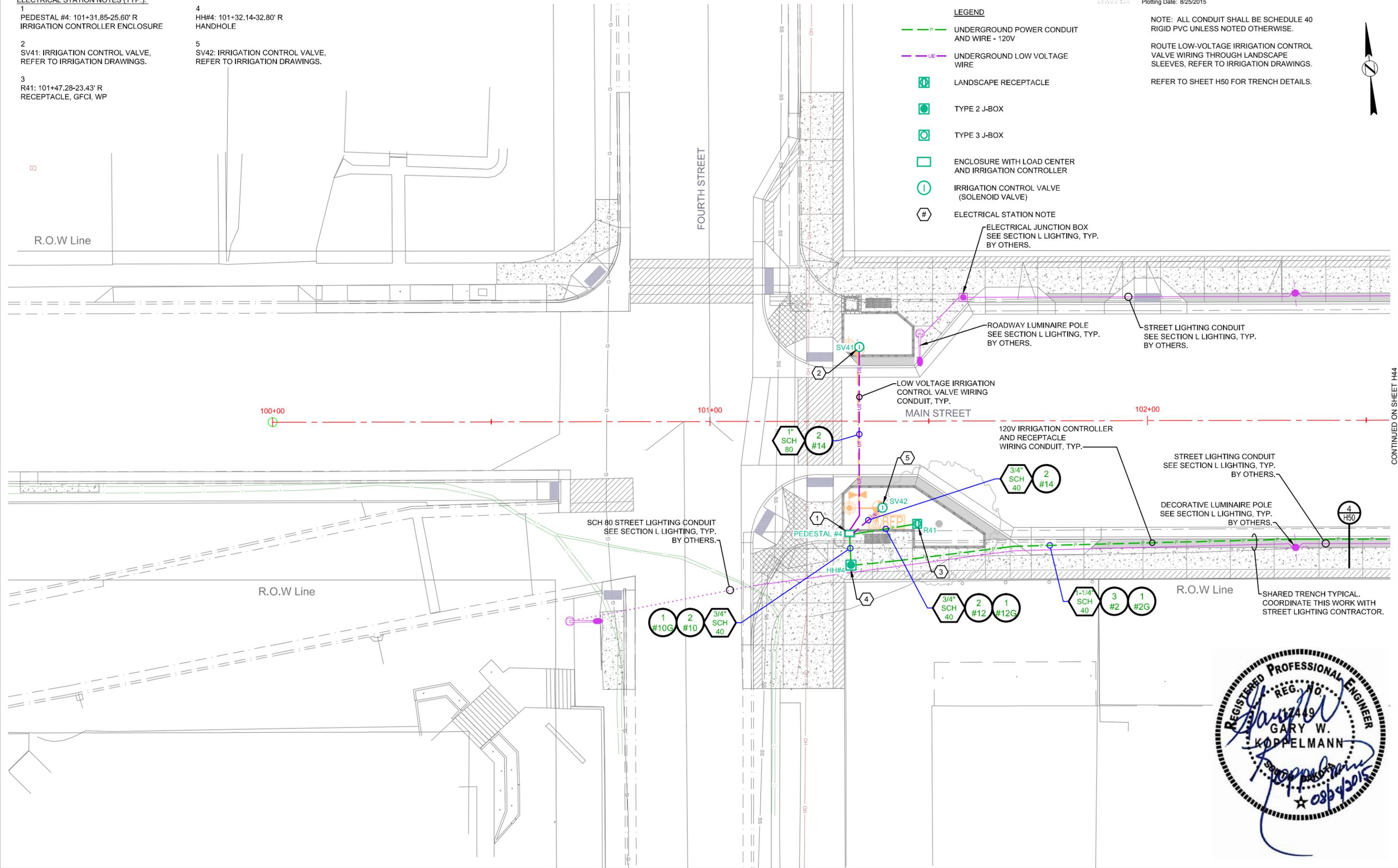
ELECTRICAL STATION NOTES (TYP.):

- | | |
|---|---|
| 1
PEDESTAL #4: 101+31.85-25.60' R
IRRIGATION CONTROLLER ENCLOSURE | 4
HH#4: 101+32.14-32.80' R
HANDHOLE |
| 2
SV41: IRRIGATION CONTROL VALVE,
REFER TO IRRIGATION DRAWINGS. | 5
SV42: IRRIGATION CONTROL VALVE,
REFER TO IRRIGATION DRAWINGS. |
| 3
R41: 101+47.28-23.43' R
RECEPTACLE, GFCI, WP | |

LEGEND

- P UNDERGROUND POWER CONDUIT AND WIRE - 120V
- UE UNDERGROUND LOW VOLTAGE WIRE
- LANDSCAPE RECEPTACLE
- TYPE 2 J-BOX
- TYPE 3 J-BOX
- ENCLOSURE WITH LOAD CENTER AND IRRIGATION CONTROLLER
- IRRIGATION CONTROL VALVE (SOLENOID VALVE)
- ELECTRICAL STATION NOTE

NOTE: ALL CONDUIT SHALL BE SCHEDULE 40 RIGID PVC UNLESS NOTED OTHERWISE.
ROUTE LOW-VOLTAGE IRRIGATION CONTROL VALVE WIRING THROUGH LANDSCAPE SLEEVES, REFER TO IRRIGATION DRAWINGS.
REFER TO SHEET H50 FOR TRENCH DETAILS.



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CONTINUED ON SHEET H44



IRRIGATION AND LANDSCAPE POWER CONDUIT LAYOUT

MAIN STREET AND THIRD STREET

FOR BIDDING PURPOSES ONLY

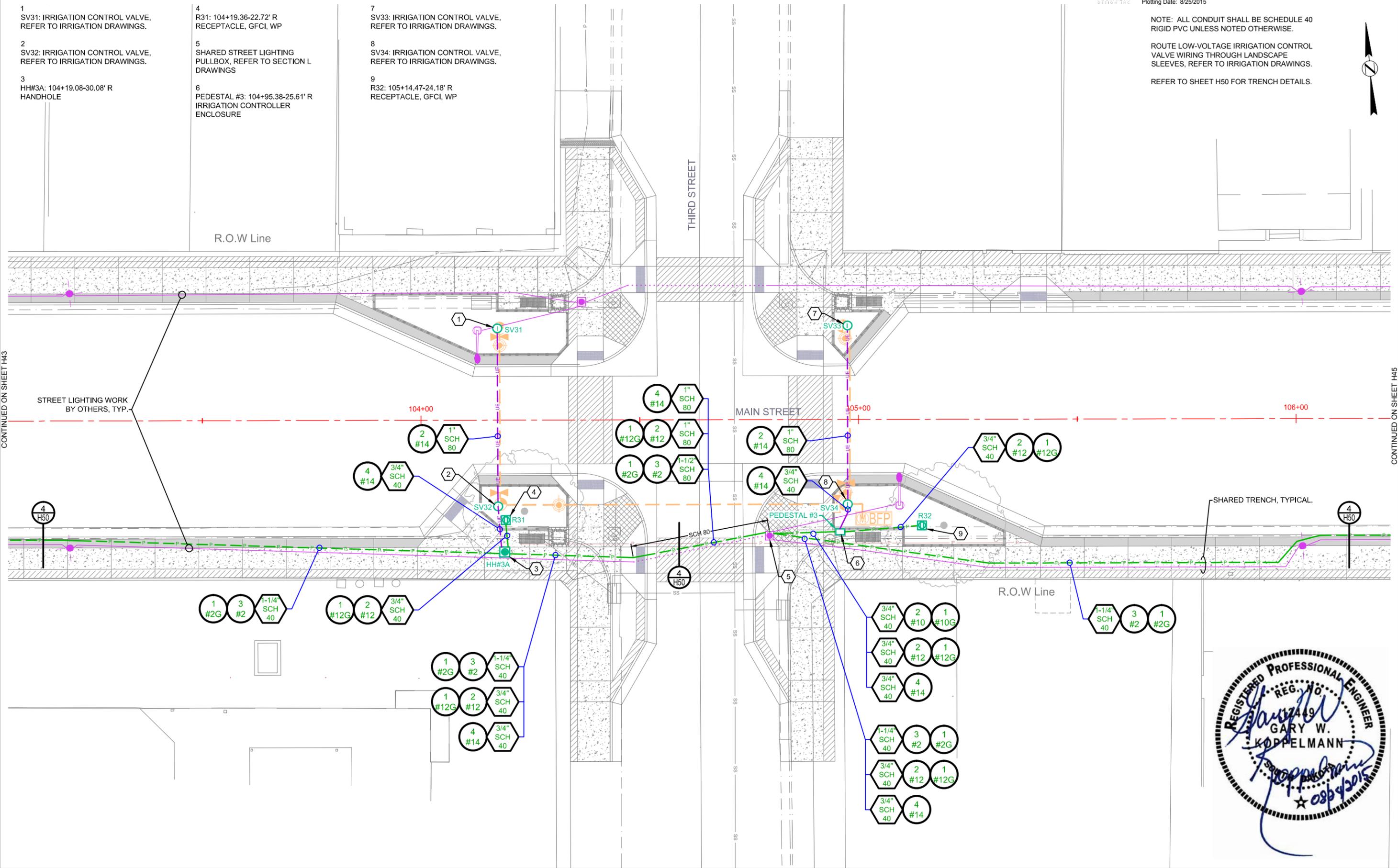
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H44	H51

Plotting Date: 8/25/2015

NOTE: ALL CONDUIT SHALL BE SCHEDULE 40 RIGID PVC UNLESS NOTED OTHERWISE.

ROUTE LOW-VOLTAGE IRRIGATION CONTROL VALVE WIRING THROUGH LANDSCAPE SLEEVES, REFER TO IRRIGATION DRAWINGS.

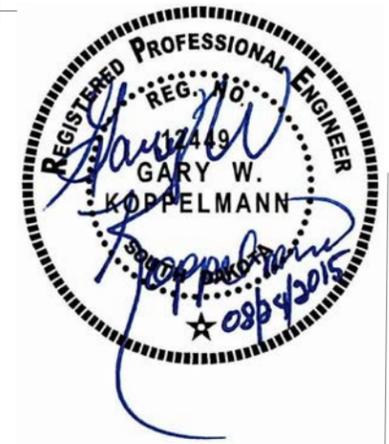
REFER TO SHEET H50 FOR TRENCH DETAILS.



CONTINUED ON SHEET H43

CONTINUED ON SHEET H45

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IRRIGATION AND LANDSCAPE POWER CONDUIT LAYOUT

MAIN STREET AND SECOND STREET

FOR BIDDING PURPOSES ONLY

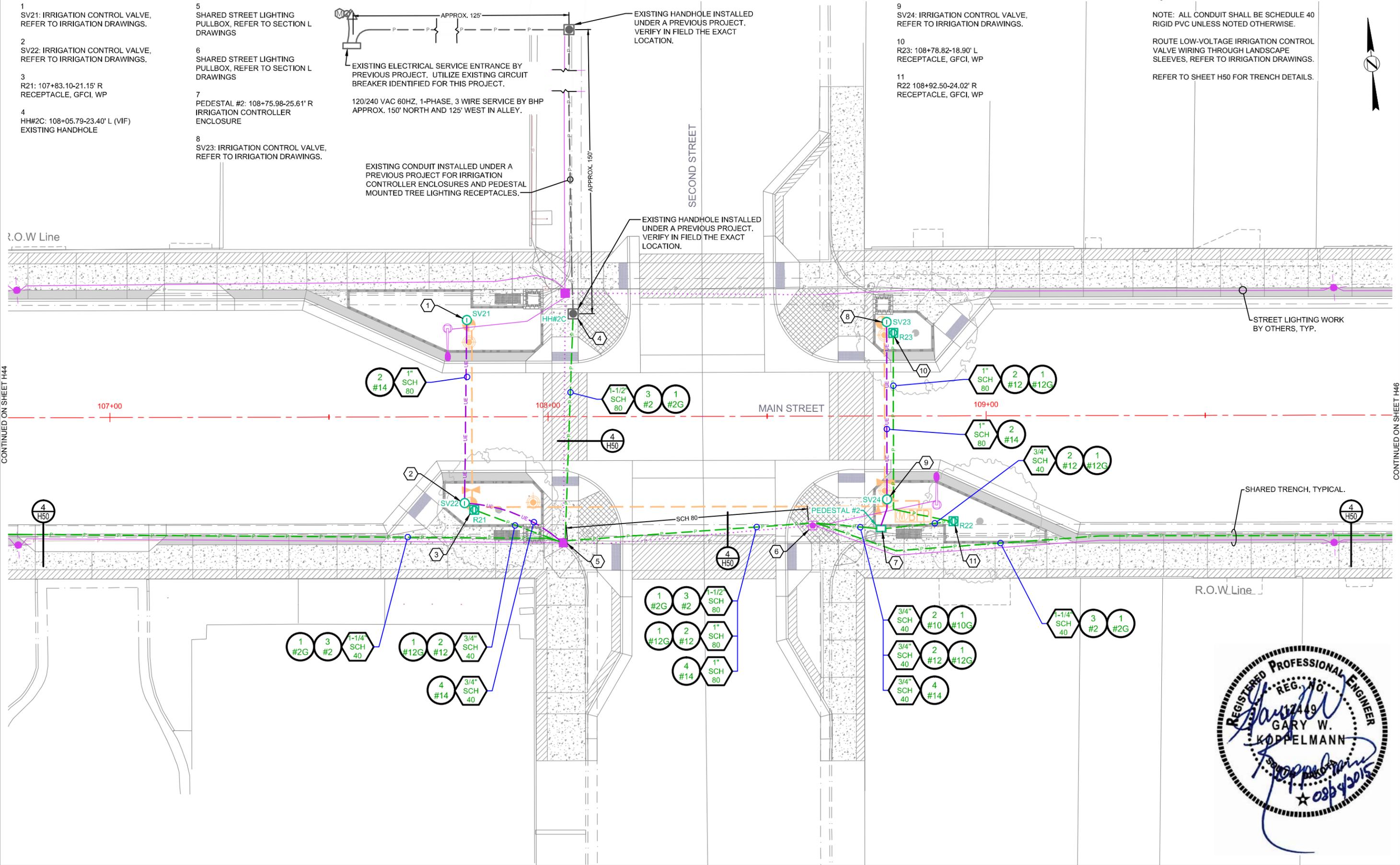
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H45	H51

Plotting Date: 8/25/2015

NOTE: ALL CONDUIT SHALL BE SCHEDULE 40 RIGID PVC UNLESS NOTED OTHERWISE.

ROUTE LOW-VOLTAGE IRRIGATION CONTROL VALVE WIRING THROUGH LANDSCAPE SLEEVES, REFER TO IRRIGATION DRAWINGS.

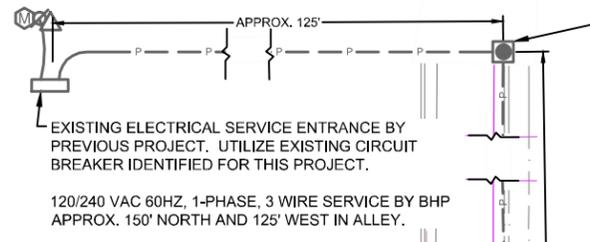
REFER TO SHEET H50 FOR TRENCH DETAILS.



- 1 SV21: IRRIGATION CONTROL VALVE, REFER TO IRRIGATION DRAWINGS.
- 2 SV22: IRRIGATION CONTROL VALVE, REFER TO IRRIGATION DRAWINGS.
- 3 R21: 107+83.10-21.15' R RECEPTACLE, GFCI, WP
- 4 HH#2C: 108+05.79-23.40' L (VF) EXISTING HANDHOLE

- 5 SHARED STREET LIGHTING PULLBOX, REFER TO SECTION L DRAWINGS
- 6 SHARED STREET LIGHTING PULLBOX, REFER TO SECTION L DRAWINGS
- 7 PEDESTAL #2: 108+75.98-25.61' R IRRIGATION CONTROLLER ENCLOSURE
- 8 SV23: IRRIGATION CONTROL VALVE, REFER TO IRRIGATION DRAWINGS.

- 9 SV24: IRRIGATION CONTROL VALVE, REFER TO IRRIGATION DRAWINGS.
- 10 R23: 108+78.82-18.90' L RECEPTACLE, GFCI, WP
- 11 R22 108+92.50-24.02' R RECEPTACLE, GFCI, WP



EXISTING HANDHOLE INSTALLED UNDER A PREVIOUS PROJECT. VERIFY IN FIELD THE EXACT LOCATION.

EXISTING HANDHOLE INSTALLED UNDER A PREVIOUS PROJECT. VERIFY IN FIELD THE EXACT LOCATION.

EXISTING CONDUIT INSTALLED UNDER A PREVIOUS PROJECT FOR IRRIGATION CONTROLLER ENCLOSURES AND PEDESTAL MOUNTED TREE LIGHTING RECEPTACLES.

STREET LIGHTING WORK BY OTHERS, TYP.

SHARED TRENCH, TYPICAL.

CONTINUED ON SHEET H44

CONTINUED ON SHEET H46

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IRRIGATION AND LANDSCAPE POWER CONDUIT LAYOUT

FOR BIDDING PURPOSES ONLY

MAIN STREET

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H47	H51

Plotting Date: 8/25/2015

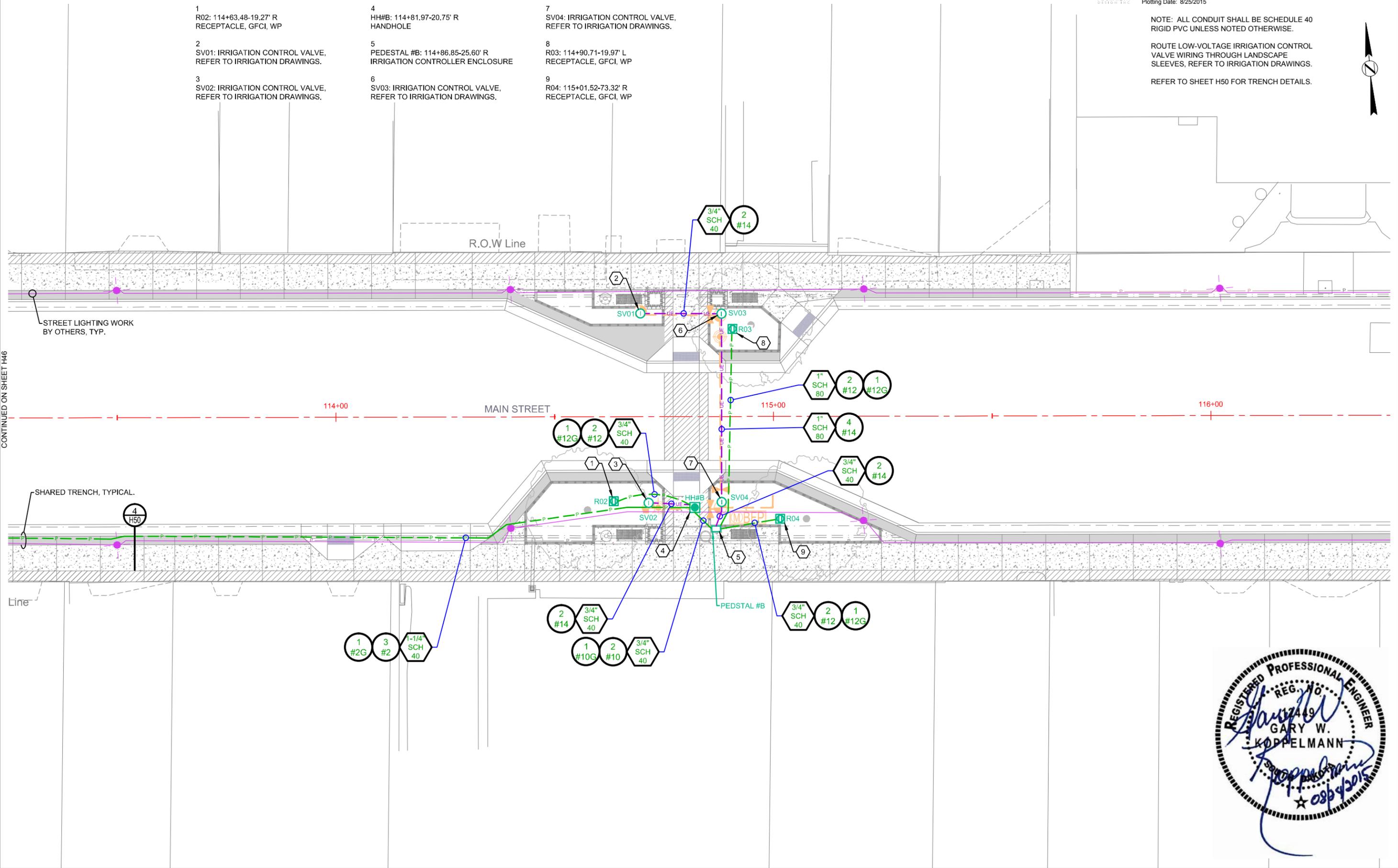
NOTE: ALL CONDUIT SHALL BE SCHEDULE 40 RIGID PVC UNLESS NOTED OTHERWISE.

ROUTE LOW-VOLTAGE IRRIGATION CONTROL VALVE WIRING THROUGH LANDSCAPE SLEEVES, REFER TO IRRIGATION DRAWINGS.

REFER TO SHEET H50 FOR TRENCH DETAILS.



- | | | |
|---|---|---|
| 1
R02: 114+63.48-19.27' R
RECEPTACLE, GFCI, WP | 4
HH#B: 114+81.97-20.75' R
HANDHOLE | 7
SV04: IRRIGATION CONTROL VALVE,
REFER TO IRRIGATION DRAWINGS. |
| 2
SV01: IRRIGATION CONTROL VALVE,
REFER TO IRRIGATION DRAWINGS. | 5
PEDESTAL #B: 114+86.85-25.60' R
IRRIGATION CONTROLLER ENCLOSURE | 8
R03: 114+90.71-19.97' L
RECEPTACLE, GFCI, WP |
| 3
SV02: IRRIGATION CONTROL VALVE,
REFER TO IRRIGATION DRAWINGS. | 6
SV03: IRRIGATION CONTROL VALVE,
REFER TO IRRIGATION DRAWINGS. | 9
R04: 115+01.52-73.32' R
RECEPTACLE, GFCI, WP |



CONTINUED ON SHEET H46

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IRRIGATION CONTROLS + ACCENT LIGHTING ONE LINE DIAGRAM

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H48	TOTAL SHEETS H51
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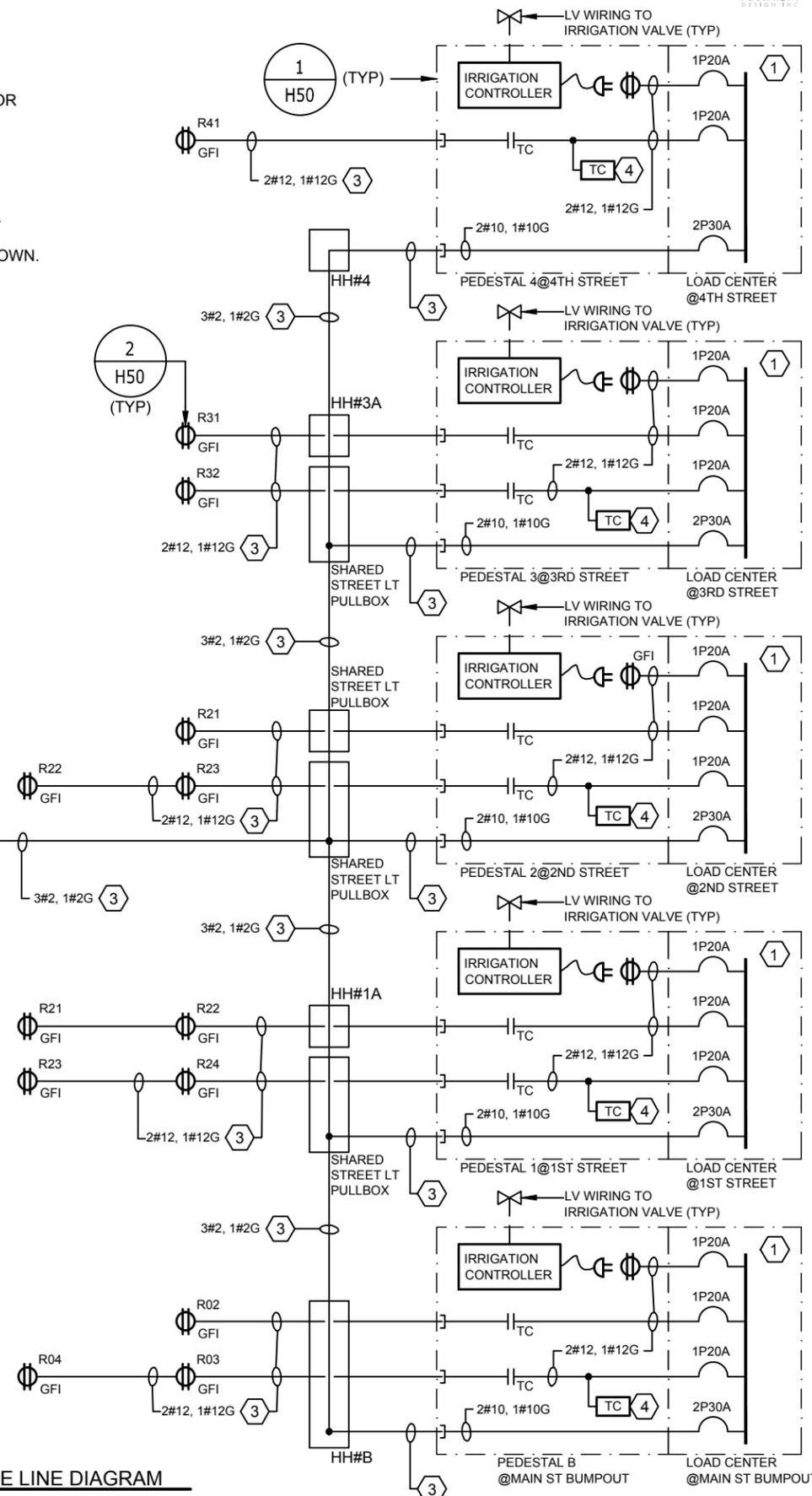
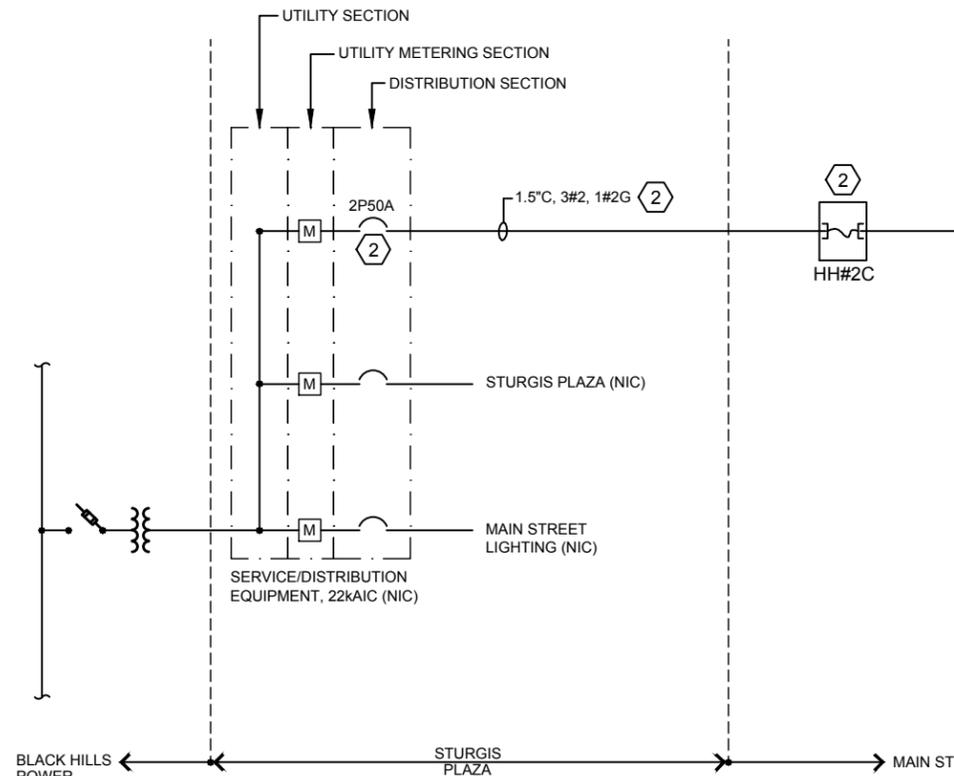
Plotting Date: 8/25/2015

GENERAL NOTES:

- CONDUCTOR SIZE SHOWN IS MAINTAINED THROUGHOUT ENTIRE CIRCUIT. TYPICAL
- "TC" INDICATES TIME CLOCK CONTROLLED RELAY.

NOTES:

- 120/240V 1Ø3W 60A RATED, 12 POLE LOAD CENTER, 22KAIC, NEMA 3R ENCLOSURE WITH LOCKABLE DOOR SQUARE D QO112M10060 OR APPROVED EQUAL REFER TO SHEET H51 FOR SCHEDULES (TYP)
- INSTALLED UNDER THE PLAZA SCOPE OF WORK.
- REFER TO SHEETS H41 - H47 FOR CONDUIT SIZING.
- TIME CLOCK, 120VAC POWERED. CONTACTS AS SHOWN.



1 H48 IRRIGATION CONTROLS + ACCENT LIGHTING ONE LINE DIAGRAM
SCALE: NO SCALE



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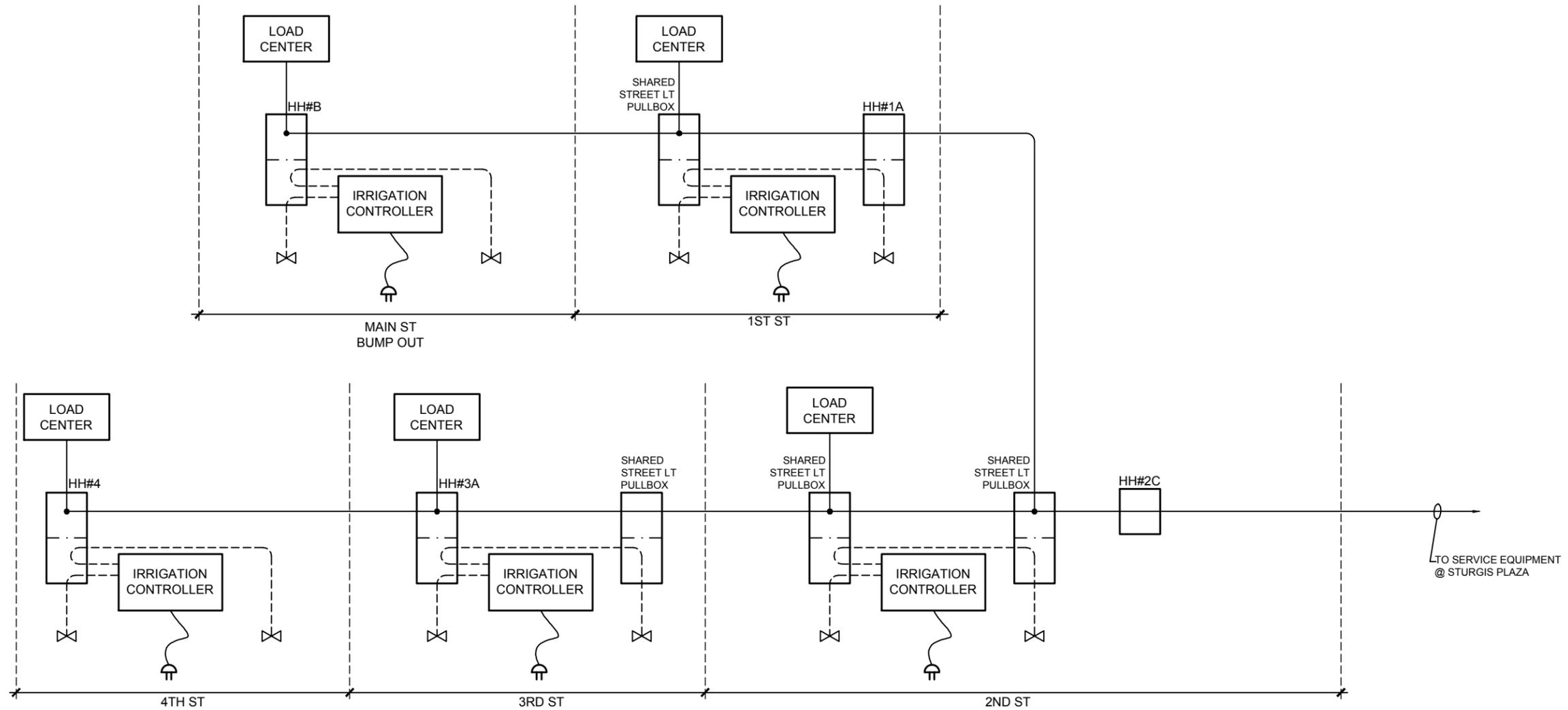
HANDHOLE LAYOUT DIAGRAM

FOR BIDDING PURPOSES ONLY



STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H49	TOTAL SHEETS H51
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Plotting Date: 8/25/2015



NOTES:

- REFER TO ONE LINE DIAGRAM ON SHEET H47 FOR WIRE SIZES AND H41-H47 FOR CONDUIT SIZES.
- COORDINATE IRRIGATION EQUIPMENT AND WIRING REQUIREMENTS PRIOR TO START OF WORK.
- ALL HANDHOLES - 24" x 24" WITH CENTER DIVIDER, HEIGHT AS REQUIRED, UON.

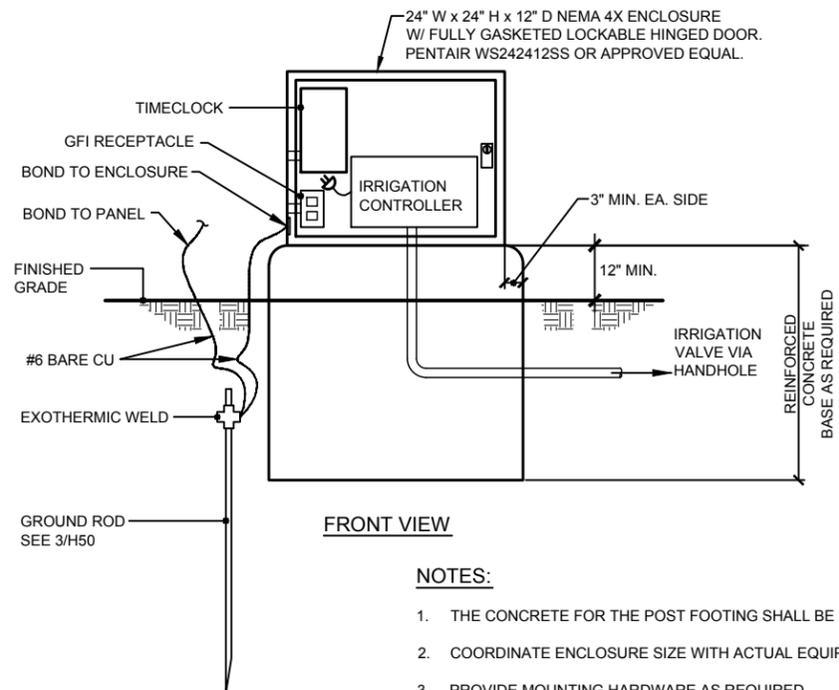
1 HANDHOLE LAYOUT DIAGRAM
H49 SCALE: NO SCALE



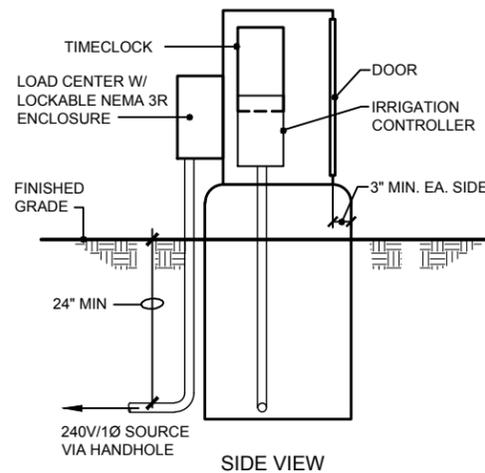
ELECTRICAL DETAILS

FOR BIDDING PURPOSES ONLY

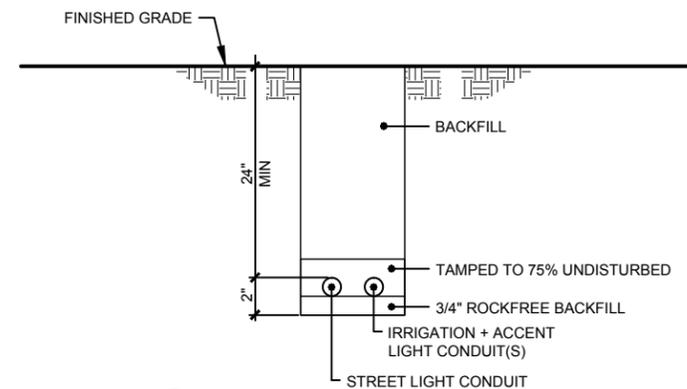
STATE OF SOUTH DAKOTA FOURFRONT DESIGN LLC Plotting Date: 8/25/2015	PROJECT	SHEET	TOTAL SHEETS
	P 7668 (05)	H50	H51



FRONT VIEW



SIDE VIEW

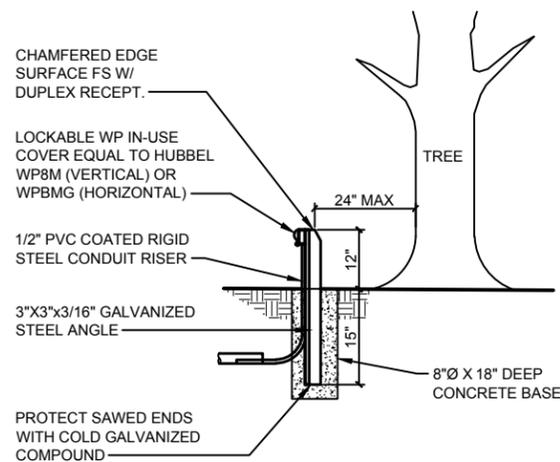


SECTION
SCALE: N.T.S.

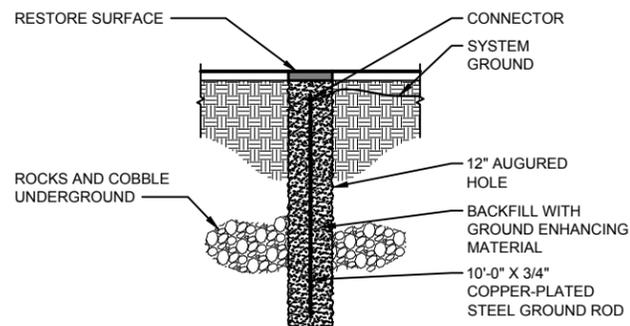
NOTES:

1. THE CONCRETE FOR THE POST FOOTING SHALL BE CLASS M6 CONCRETE.
2. COORDINATE ENCLOSURE SIZE WITH ACTUAL EQUIPMENT PROVIDED.
3. PROVIDE MOUNTING HARDWARE AS REQUIRED.
4. MINIMUM 48\"/>

1 TYPICAL IRRIGATION PEDESTAL DETAIL (BID ITEM #900E5420)
SCALE: NO SCALE



2 WP RECEPTACLE DETAIL
SCALE: N.T.S.



3 GROUND ROD DETAIL
SCALE: N.T.S.



ELECTRICAL SCHEDULES

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 7668 (05)	SHEET H51	TOTAL SHEETS H51
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Plotting Date: 8/25/2015

LOAD CENTER - 4TH ST		VOLTS: 120/240	PHASE: 1	WIRE: 3	MAIN CAP: 60	AMPERES				
		A/C RATING: 22,000	NEMA 3R ENCLOSURE, LOCKABLE DOOR							
		MOUNTING: SURFACE	FEEDER SIZE: SEE RISER			MAIN CONNECTION: MAIN				
CCT NO	ITEM FED	LOAD WATTS	WIRE SIZE	CIRCUIT BREAKER AMPS POLES FRAME	NEUTRAL	CIRCUIT BREAKER FRAME POLES AMPS	WIRE SIZE	LOAD WATTS	ITEM FED	CCT NO
1	IRRIGATION CONTROLLER	7	20	1		L1	1	20	ACCENT LTG	2
3	ACCENT LTG	500	20	1		L2	1	20	ACCENT LTG TIMER	4
5	SPARE		20	1		L1	1	20	SPARE	6
7	SPARE		20	1		L2	1	20	SPARE	8
9	SPARE		20	1		L1	1	20	SPACE	10
11	SPACE					L2	1		SPACE	12
13	SPACE					L1	1		SPACE	14
NOTES:									CONNECTED LOAD	
1.									L1- 57 WATTS	
2.									L2- 500 WATTS	

LOAD CENTER - 3RD ST		VOLTS: 120/240	PHASE: 1	WIRE: 3	MAIN CAP: 60	AMPERES				
		A/C RATING: 22,000	NEMA 3R ENCLOSURE, LOCKABLE DOOR							
		MOUNTING: SURFACE	FEEDER SIZE: SEE RISER			MAIN CONNECTION: MAIN				
CCT NO	ITEM FED	LOAD WATTS	WIRE SIZE	CIRCUIT BREAKER AMPS POLES FRAME	NEUTRAL	CIRCUIT BREAKER FRAME POLES AMPS	WIRE SIZE	LOAD WATTS	ITEM FED	CCT NO
1	IRRIGATION CONTROLLER	75	20	1		L1	1	20	ACCENT LTG	2
3	ACCENT LTG	500	20	1		L2	1	20	ACCENT LTG TIMER	4
5	SPARE		20	1		L1	1	20	SPARE	6
7	SPARE		20	1		L2	1	20	SPARE	8
9	SPARE		20	1		L1	1	20	SPACE	10
11	SPACE					L2	1		SPACE	12
13	SPACE					L1	1		SPACE	14
NOTES:									CONNECTED LOAD	
1.									L1- 575 WATTS	
2.									L2- 550 WATTS	

LOAD CENTER - BUMPOUT		VOLTS: 120/240	PHASE: 1	WIRE: 3	MAIN CAP: 60	AMPERES				
		A/C RATING: 22,000	NEMA 3R ENCLOSURE, LOCKABLE DOOR							
		MOUNTING: SURFACE	FEEDER SIZE: SEE RISER			MAIN CONNECTION: MAIN				
CCT NO	ITEM FED	LOAD WATTS	WIRE SIZE	CIRCUIT BREAKER AMPS POLES FRAME	NEUTRAL	CIRCUIT BREAKER FRAME POLES AMPS	WIRE SIZE	LOAD WATTS	ITEM FED	CCT NO
1	IRRIGATION CONTROLLER	75	20	1		L1	1	20	ACCENT LTG	2
3	ACCENT LTG	500	20	1		L2	1	20	ACCENT LTG TIMER	4
5	SPARE		20	1		L1	1	20	SPARE	6
7	SPARE		20	1		L2	1	20	SPARE	8
9	SPARE		20	1		L1	1	20	SPACE	10
11	SPACE					L2	1		SPACE	12
13	SPACE					L1	1		SPACE	14
NOTES:									CONNECTED LOAD	
1.									L1- 1,075 WATTS	
2.									L2- 550 WATTS	

LOAD CENTER - 2ND ST		VOLTS: 120/240	PHASE: 1	WIRE: 3	MAIN CAP: 60	AMPERES				
		A/C RATING: 22,000	NEMA 3R ENCLOSURE, LOCKABLE DOOR							
		MOUNTING: SURFACE	FEEDER SIZE: SEE RISER			MAIN CONNECTION: MAIN				
CCT NO	ITEM FED	LOAD WATTS	WIRE SIZE	CIRCUIT BREAKER AMPS POLES FRAME	NEUTRAL	CIRCUIT BREAKER FRAME POLES AMPS	WIRE SIZE	LOAD WATTS	ITEM FED	CCT NO
1	IRRIGATION CONTROLLER	75	20	1		L1	1	20	ACCENT LTG	2
3	ACCENT LTG	500	20	1		L2	1	20	ACCENT LTG TIMER	4
5	SPARE		20	1		L1	1	20	SPARE	6
7	SPARE		20	1		L2	1	20	SPARE	8
9	SPARE		20	1		L1	1	20	SPACE	10
11	SPACE					L2	1		SPACE	12
13	SPACE					L1	1		SPACE	14
NOTES:									CONNECTED LOAD	
1.									L1- 1,075 WATTS	
2.									L2- 550 WATTS	

LOAD CENTER - 1ST ST		VOLTS: 120/240	PHASE: 1	WIRE: 3	MAIN CAP: 60	AMPERES				
		A/C RATING: 22,000	NEMA 3R ENCLOSURE, LOCKABLE DOOR							
		MOUNTING: SURFACE	FEEDER SIZE: SEE RISER			MAIN CONNECTION: MAIN				
CCT NO	ITEM FED	LOAD WATTS	WIRE SIZE	CIRCUIT BREAKER AMPS POLES FRAME	NEUTRAL	CIRCUIT BREAKER FRAME POLES AMPS	WIRE SIZE	LOAD WATTS	ITEM FED	CCT NO
1	IRRIGATION CONTROLLER	75	20	1		L1	1	20	ACCENT LTG	2
3	ACCENT LTG	1,000	20	1		L2	1	20	ACCENT LTG TIMER	4
5	SPARE		20	1		L1	1	20	SPARE	6
7	SPARE		20	1		L2	1	20	SPARE	8
9	SPARE		20	1		L1	1	20	SPACE	10
11	SPACE					L2	1		SPACE	12
13	SPACE					L1	1		SPACE	14
NOTES:									CONNECTED LOAD	
1.									L1- 1,075 WATTS	
2.									L2- 1,050 WATTS	

