

LIST OF RESIDENTIAL LIGHT NOTES

TITLE	SHEET	UPDATED
Street Lighting System	L1	9/1/2020
Electrical Services and Meters	L1	9/1/2020
City Furnished Materials	L1	9/1/2020
Utility Companies for the Electrical Services	L1	9/1/2020
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Contractor Furnished Materials	L1	9/1/2020
Electrical Junction Box for Residential Streets	L1	9/1/2020
Meter Pedestal	L1	9/1/2020
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Blue text is shown for the designers' information only, and should be deleted prior to submitting the plans to the City for review.

Red text is shown where the developer / designer needs to make a decision on which information to include in the plans, and where information may change from project to project.

(Delete these paragraphs and the table for the List of Standard Notes prior to plan review)

STREET LIGHTING SYSTEM

The street lighting system shall be installed as follows:

- The Contractor shall submit shop drawings to the City Lighting Department for review. The City Lighting Department contacts are as follows:
 - Terry Adams (605-373-6979) tadams@siouxfalls.org
 - Jerry Jongeling (605-373-6979) jjongeling@siouxfalls.org
- The Contractor shall begin the street lighting system installation per the construction plans.
- The Contractor shall have the Engineering Firm / Company stake the location of the street lights (luminaires), junction boxes and meters prior to their installation. The Contractor shall notify the City Lighting Department upon the project being staked, to allow the City to perform a site visit, confirm and make any field revisions to the street lights (luminaires), junction boxes and meters prior to them being installed by the Contractor; to avoid having these items installed within driveways, sidewalks and curb ramps. The Developer / Engineer shall be on-site during this site review, to confirm these items locations with the City.
- The street lighting system shall be a 120 volt system with 0.4 amps per light (luminaire) fixture.
- The street lighting system shall be a conduit system. The street light (luminaire) poles shall have breakaway transformer bases and shall be installed on concrete footings.
- The Contractor shall furnish and install all street light wire and shall pull all wires through the conduits, junction boxes, and light (luminaire) poles.
- The Contractor shall notify the City Lighting Department after the electrician inspection has been completed so the City Light Department can make the line-to-line connections with the junction boxes and street light (luminaire) poles.
- The Contractor shall locate all project conduit and wire until the City Lighting Department has made line-to-line connections and all final inspection items & deficiencies have been addressed and resolved.
- The Contractor shall address and resolve any final inspection items prior to City signing-off on the final acceptance and prior to the City taking ownership of the lighting system.
- The Contractor shall be responsible for filling-out the City's Roadway Lighting Checklist. The checklist can be found at the following website: <http://www.siouxfalls.org/public-works/engineering/construction-mgmt/resources/forms-permits>.
- The Developer / Designer shall design the project per the Design Standards for Roadway Lighting – Chapter 15 – website: <https://www.siouxfalls.org/public-works/engineering/construction-mgmt/resources/design-standards>.
- The Developer / Contractor shall construct the project per the Standard Specifications for Roadway Lighting – Section 635B – website: <http://www.siouxfalls.org/public-works/engineering/construction-mgmt/resources/specs-policies-manuals>.

ELECTRICAL SERVICES AND METERS

The Developer / Contractor shall be responsible for all coordination and completing the application process with the local utility companies for the electrical services and meter installation. The utility company application process / contact info is as follows:

<p>Xcel Energy - FastApp contact # 1-800-628-2121 https://xcelenergy.force.com/FastApp</p>	<p>Southeastern Electric contact # 605-934-1961 www.southeasternelectric.com/request-service</p>
<p>Sioux Valley Energy contact # 605-256-1629 https://www.siouxfallsvalleyenergy.com/forms/new-service-request</p>	<p>Sioux Falls Municipal Light and Power contact # 605-373-6979</p>

CITY FURNISHED MATERIALS

The City shall furnish and the Contractor install all of the City Furnished Materials listed below:

Quantity	City Furnished Item	Bid item to include costs in:
15 Each	25' Tall Luminaire Poles with 8' Arms	Install Breakaway Base Luminaire Pole with 8' Arm, 25' Mounting Height
15 Each	TB1-17 Aluminum Breakaway Bases	
15 Each	Anchor Bolts Sets (4 anchor bolts per set)	
15 Each	Bolt Bags, Arm Hardware, and Pole Caps	Install LED Luminaire Class A
15 Each	Class A LED Luminaire Heads	
15 Each	Photo Eyes	Install Locator Ball
2 Each	Locator Balls	

All costs to pick-up the City furnished materials from the City Light Shop shall be incidental to the installation costs of the respective bid item. The City Light Shop address is as follows:

Sioux Falls Municipal Light & Power
 2000 N. Minnesota Avenue
 Sioux Falls, SD 57117-7402
 Contact Terry Adams (605-373-6979)

The Contractor shall pay the City a sales tax amount of 6.50% on the City-furnished materials.

- \$ **XXX.XX** is the estimated tax amount the Contractor owes for the bid item "Tax on City Furnished Roadway Lighting Materials". This tax amount is allowed to be adjusted to the final tax amount owed by the Contractor to the City, after the project bidding.

To further clarify what items are being furnished and installed by either the City or Contractor on this project, the following table has been provided:

Material	City Furnish	Contractor Install	Contractor Furnish & Install	City Furnish & Install	Power Supplier
Meter Pedestal & Breakers			X		
Meter					X
Conduit			X		
Wire in Conduit			X		
Junction Box			X		
Luminaire Pole	X	X			
LED Luminaire & Photo Eye	X	X			
Locator Ball	X	X			
Line-to-Line connections and Fuses/Connectors for Wiring				X	
Breakaway Bases	X	X			
Bolt Bags (Lights to Base)	X	X			
Anchor Bolts	X	X			
Concrete Footings			X		

LOCAL UTILITY COMPANY

The Developer / Designer shall confirm the correct utility company and contact person, with all unnecessary utility companies and contact persons being deleted. (Delete this paragraph prior to plan review)

The local utility company contact info is as follows:

Southeastern Electric contact info:

- Adam Stark (605-368-4000) adam@southeastern.coop

Sioux Valley Energy contact info:

- Jason Sage (605-256-1629) jason.sage@siouxvalleyenergy.com
- Ryan Gruber (605-582-3158) ryan.gruber@siouxvalleyenergy.com

Xcel Energy contact info:

- Aaron Bickett (605-339-8315) aaron.m.bickett@xcelenergy.com
- Mike Ronfeldt (605-339-8358) michael.a.ronfeldt@xcelenergy.com
- Ryan Kiefer (605-339-8332) ryan.t.kiefer@xcelenergy.com
- Derreck Martin (605-339-8325) derreck.t.martin@xcelenergy.com
- Bob VanKirk (605-339-8234) robert.vankirk@xcelenergy.com

CONTRACTOR FURNISHED MATERIALS

The Contractor shall use the following specifications for these Contractor furnished materials:

- 4/4/4 AWG Aluminum Wire – Quadruplex:
 - 600-volt secondary underground aluminum wire.
 - Three #4 wires and a #4 neutral wire cabled to produce a quadruplex cable configuration.
 - Rated for 90 degree Celsius in continuous operation.
 - Wires shall be stranded, compressed 1350-H16/H26 aluminum insulated with cross-linked polyethylene insulation meeting requirements of ANSI/ICEA S-81-570.
 - The wire shall be suitable for use in conduit or direct burial application.
 - Code word "Tulsa" as manufactured by Southwire 'HI-SCORE' cable, General Cable or approved equal.
- #4 AWG Copper Wire – Single Conductors (1/C):
 - Insulation shall be 600 volt rated thermosetting, cross linked polyethylene meeting the requirements of ICEA S-66-524 (NEMA WC-7).
 - Conductors shall be annealed copper meeting the requirements of ASTM B3.
 - Suitable for use in conduit or direct burial application.
 - Wire shall be UL Listed Type USE-2 per UL Standard 854 and Type RHH or RHW-2 per UL Standard 44.
 - The wire shall be as manufactured by Southwire, General Cable or approved equal.
- #14 AWG Copper Wire – Single Conductors (1/C):
 - Intended for tracer wire application.
 - UL listed as a tracer wire.
 - Insulated with high molecular weight polyethylene (HMWPE).
 - Suitable for direct burial on applications up to 600V.
 - Color in accordance with the American Public Works Administration Uniform Color Code.
 - Southwire Company or approved equal.
- UF 14/2 Luminaire Wire:
 - 600-volt secondary underground copper wire.
 - Type UF 14/2 with ground, sunlight-resistant (UL) gray in color.
- 4/0 / 4/0 / 4/0 AWG Aluminum Wire - Triplex.
 - 600-volt secondary underground aluminum wire.
 - Two #4/0 wires and a #4/0 neutral wire cabled to produce a triplex cable configuration.
 - Rated for 90 degree Celsius in continuous operation.
 - Wires shall be stranded, compressed 1350-H16/H26 aluminum insulated with cross-linked polyethylene insulation meeting requirements of ANSI/ICEA S-81-570.
 - The wire shall be suitable for use in conduit or direct burial application.
 - Code word "Monmouth" as manufactured by Southwire 'HI-SCORE' cable, General Cable or approved equal.

ELECTRICAL JUNCTION BOX FOR RESIDENTIAL STREETS

See City standard plate #635.73 (Special).

METER PEDESTAL

See City standard plate #635.50.

STREET LIGHT FOOTING

The Contractor is responsible for installing all street light footings according to the plans and standard plate #635.60. Street light footings shall be installed a depth of 5 feet.

All costs needed to furnish and install the footings shall be included in the contract unit price per foot for "2" Diameter Footing".

CONDUIT

Conduits shall be a minimum of 2" Schedule 40 PVC behind the curb and gutter and a minimum of 2" Schedule 80 PVC under all roadways and installed to a minimum depth of 24". Conduit ends shall be capped or sealed as shown on the standard plates. #14 AWG Tracer Wire shall be installed in all lighting conduit not carrying street light wire.

Each section of conduit shall bear the underwriter's laboratory's label. The conduit work shall be completed by a Licensed Electrician in conformance with applicable codes of the State of South Dakota.

All conduit borings shall be included in the contract unit price per foot for the various conduit items. The Contractor shall not use machines requiring flowing water for installation of conduit under streets or roadways, unless specifically permitted by the Engineer.

Refer to the electrical plan sheets for conduit quantities and locations. The plan shown conduit quantities shall be the basis of payment for this work unless changes are made in the field.

*** PROJECT ***
*** PROJECT LIMITS ***
*** PROJECT DESCRIPTION ***

RESIDENTIAL STREET LIGHT NOTES

DESIGNED BY: XXX	ACAD FILE: XXX
DRAWN BY: XXX	DATE: XXX
CHECKED BY: XXX	DATE: XXX
REVISIONS:	BY: DATE:

CITY OF SIOUX FALLS
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SHEET NO.

L1

BID ITEMS

Below is a list of typical bid items the Develop / Designer may potentially need to use for the project.

A full list of the City's bid items for Series 635 Street Lighting can be found at the website <https://siouxfalls.sharefile.com/share/view/sf626caf84794ab19/fo6b596b-c504-4d2d-a431-0215d8201c59>

The Developer / Designer shall delete any unnecessary bid items from this list. (Delete this list of bid items and paragraph prior to plan review)

Bid Item Number	Item Description	Unit
635.4020	2' Diameter Footing	Ft
635.4500	Power Feed - Elevated Transformer to Single Meter Pedestal	Each
635.4520	Power Feed - Ground Power Source to Single Meter Pedestal	Each
635.4600	Tie To Existing Conduit	Each
635.4610	Tie To Existing Junction Box	Each
635.5825	Install Breakaway Base Luminaire Pole with 8' Arm, 25' Mounting Height	Each
635.6200	Install LED Luminaire Class A	Each
635.6610	Junction Box for Residential Street	Each
635.6920	Install Locator Ball	Each
635.8020	2" Rigid Conduit, Schedule 40	Ft
635.8120	2" Rigid Conduit, Schedule 80	Ft
635.8210	4/4/4/4 AWG Aluminum Wire	Ft
635.8220	4/0 / 4/0 / 4/0 AWG Aluminum Wire	Ft
635.8435	1/C #4 AWG Copper Wire	Ft
635.8460	1/C #14 AWG Copper Wire	Ft
635.8500	UF 14/2 Luminaire Wire	Ft

STANDARD PLATES

Below is a list of typical standard plates the Develop / Designer may potentially need to use for the project.

A full list of the City's standard plates for the Series 635B Street Lighting can be found at the website <https://siouxfalls.sharefile.com/share/view/sf626caf84794ab19/fo6b596b-c504-4d2d-a431-0215d8201c59>

The Developer / Designer shall insert the appropriate standard plates into plan sheets, towards the end of the project plan sheet list. (Delete this list of standard plates and paragraph prior to plan review)

Standard Plate #	Description
635.50	Meter and Stub up for Residential Streets (2 pages)
635.56	Street Light Standard T-Base (1 page)
635.60	Street Light Footing (1 page)
635.73	Junction Box – Lighting for Residential Streets (1 page)
635.81	Locator Ball and Tracer Wire (1 page)
635.84	Tree Trimming for Street Lights (1 page)

QUANTITY TABLES

Below is a list of typical quantity tables the Develop / Designer may potentially use for the project. The Developer / Designer shall modify / update / delete the quantity tables as needed for the project. (Delete this list of quantity tables and paragraph prior to plan review)

TABLE FOR LUMINAIRE POLES			
Location	Install Luminaire Pole w/ 8' Arm, 25' Mounting Height (Each)	Install LED Luminaire Class A (Each)	2' Diameter Footing (Ft)
L1	1	1	5
L2	1	1	5
L3	1	1	5
L4	1	1	5
Total:	4	4	20

TABLE FOR POWER FEED - GROUND POWER SOURCE TO SINGLE METER PEDESTAL	
Location	Quantity (Each)
Road Lane Street Intersection	1
Total:	1

TABLE FOR TIE TO EXISTING CONDUIT	
Location	Quantity (Each)
north end	1
south end	1
east end	1
west end	1
Total:	4

TABLE FOR TIE TO EXISTING JUNCTION BOX	
Location	Quantity (Each)
north end	1
south end	1
east end	1
west end	1
Total:	4

TABLE FOR JUNCTION BOX FOR RESIDENTIAL STREETS	
Location	Quantity (Each)
LJB1	1
LJB2	1
LJB3	1
LJB4	
Total:	3

TABLE FOR INSTALL LOCATOR BALL	
Location	Quantity (Each)
LB1	1
LB2	1
LB3	1
LB4	1
Total:	4

TABLE FOR CONDUIT AND WIRE									
Location to Location		Conduit		Wire					
		Sch 40 2" (Ft)	Sch 80 2" (Ft)	4/4/4/4 (Ft)	4/0 Triplex (Ft)	1C #4 (Ft)	1C #14 (Ft)	UF 14/2 Wire (Ft)	Bore Conduit* (Ft)
LB1	L1								
L1	L2								
L2	L3								
L3	L4								
L4	JB1								
JB1	Meter								
Meter	Transformer								
Total:		0	0	0	0	0	0	0	0

*Incidental to the conduit installation costs.

* PROJECT *
* PROJECT LIMITS *
* PROJECT DESCRIPTION *

RESIDENTIAL STREET LIGHT NOTES
DESIGNED BY: XXX ACAD FILE: XXX
DRAWN BY: XXX DATE: XXX
CHECKED BY: XXX BY: DATE:
REVISIONS: BY: DATE:

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