



# Wisconsin Department of Transportation

April 24, 2019

## Division of Transportation Systems Development

Bureau of Project Development  
4822 Madison Yards Way, 4<sup>th</sup> Floor South  
Madison, WI 53705

Telephone: (608) 266-1631  
Facsimile (FAX): (608) 266-8459

### NOTICE TO ALL CONTRACTORS:

**Proposal #17: 2070-03-71, WISC 2019 288**  
**W LAYTON AVENUE**  
**S 27<sup>TH</sup> STREET TO S HOWELL AVE**  
**LOCAL STREET**  
**MILWAUKEE COUNTY**

### Letting of May 14, 2019

This is Addendum No. 01, which provides for the following:

#### Special Provisions:

| Revised Special Provisions |  |
|----------------------------|--|
| Article No.                | Description                                      |
| 49                         | Luminaire Architectural LED 3, Item SPV.0060.304 |
| 53                         | Luminaire Utility LED 1, Item SPV.0060.309       |

| Added Special Provisions |   |
|--------------------------|---|
| Article No.              | Description                                       |
| 73                       | Pole Type 21 Aluminum with Transformer Base       |
| 74                       | Pole Type 21 Aluminum with Transformer Base Spare |

| Deleted Special Provisions |  |
|----------------------------|--|
| Article No.                | Description                              |
| 52                         | Pole Type 21 with Transformer Base       |
| 57                         | Pole Type 21 Spare with Transformer Base |

#### Schedule of Items:

| Revised Bid Item Quantities |   |      |              |                  |                |
|-----------------------------|---|------|--------------|------------------|----------------|
| Bid Item                    | Item Description                            | Unit | Old Quantity | Revised Quantity | Proposal Total |
| SPV.0060.314                | Street Lighting Single Bracket Arm 8' Spare | EACH | 31           | -25              | 6              |

| Added Bid Item Quantities |   |      |              |                  |                |
|---------------------------|---|------|--------------|------------------|----------------|
| Bid Item                  | Item Description                                  | Unit | Old Quantity | Revised Quantity | Proposal Total |
| 416.0620                  | Drilled Dowel Bars                                | EACH | 0            | 48               | 48             |
| SPV.0060.316              | Pole Type 21 Aluminum with Transformer Base       | EACH | 0            | 82               | 82             |
| SPV.0060.317              | Pole Type 21 Aluminum with Transformer Base Spare | EACH | 0            | 10               | 10             |

| Deleted Bid Item Quantities |  |      |              |                  |                |
|-----------------------------|--|------|--------------|------------------|----------------|
| Bid Item                    | Item Description                         | Unit | Old Quantity | Revised Quantity | Proposal Total |
| SPV.0060.308                | Pole Type 21 with Transformer Base       | EACH | 82           | -82              | 0              |
| SPV.0060.313                | Pole Type 21 with Transformer Base Spare | EACH | 10           | -10              | 0              |

**Plan Sheets:**

| Revised Plan Sheets |   |
|---------------------|---|
| Plan Sheet          | Plan Sheet Title (brief description of changes to sheet)  |
| 21                  | Construction Details (revised detail named Finished Full Walk Terrace STA 68+78.9 to STA 69+81.5 to correct callout 5" CONC. WALK. Revised detail named Finished Full Walk Terrace STA 68+78.9 to STA 69+81.5 to correct callout CONCRETE CURB & GUTTER 31-INCH STA 68+50 TO STA 70+50. Revised detail named Finished Full Walk Terrace STA 68+78.9 to STA 69+81.5 to delete 1' dimension. Revised detail named Finished Full Walk Terrace STA 68+78.9 to STA 69+81.5 to add tie bars. Revised detail named Finished Full Walk Terrace STA 68+98.2 to STA 69+73.8 to correct callout 5" CONC. WALK. Revised detail named Finished Full Walk Terrace STA 68+98.2 to STA 69+73.8 to correct callout CONCRETE CURB & GUTTER 19-INCH STA 68+50 TO STA 70+50. Revised detail named Finished Full Walk Terrace STA 68+98.2 to STA 69+73.8 to add tie bars. Revised detail named Finished Full Walk Terrace STA 68+98.2 to STA 69+73.8 to delete 1' dimension. |
| 70                  | Plan Details (revised construction joints at STA 68+50 to add drilled dowel bars along joints. Revised construction joints at STA 70+50 to add drilled dowel bars along joints. Revised concrete pavement plan layout to add note for contractor to see standard detail drawings for Urban Doweled Concrete Pavement. Revised concrete pavement plan layout to add note for contractor to see standard detail drawings for Concrete Pavement Longitudinal Joints and Ties. Revised Curve Data A Data table for revised name showing curve along westbound line (N). Revised Curve Data B Data table for revised name showing curve along westbound line (S). Revised Curve Data C Data table for revised name showing curve along eastbound line (N). Revised Curve Data D Data table for revised name showing curve along eastbound line (S))  |
| 209                 | Street Lighting Details (revised detail named TYPICAL CONDUIT INSTALLATION FROM PULL BOX TO POLE & 4" X 4" WIRING PEDESTAL to revise metal wiring pedestal 4" X 4" X 36" back panel for detail of approximate area of access hole)  |
| 217                 | Street Lighting Details (revised detail named TYPE 21 POLE PROFILE WITH LUMINAIRES to allow all details to be visible. Revised detail named Metal Wiring Pedestal 4" X 4" X 36" to revise back panel for detail of approximate area of access hole)   |
| 249                 | Miscellaneous Quantities (revised quantity sheet to correct name for item SPV.0060.305 STREET LIGHTING SINGLE BRACKET ARM 8'. Revised quantity sheet to correct name for item SPV.0060.306 STREET LIGHTING DOUBLE BRACKET ARM 8'. Revised quantity name to correct name for item SPV.0060.308 POLE TYPE 21 ALUMINUM WITH TRANSFORMER BASE)  |

|     |  |
|-----|--|
| 250 | Miscellaneous Quantities (revised quantity sheet to revised quantity and name for item SPV.0060.314 STREET LIGHTING SINGLE BRACKET ARM 8' SPARE. Revised quantity sheet to correct name for item SPV.0060.313 POLE TYPE 21 ALUMINUM WITH TRANSFORMER BASE SPARE. Revised quantity sheet to correct name for item SPV.0060.315 STREET LIGHTING DOUBLE BRACKET ARM 8' SPARE) |
| 256 | Miscellaneous Quantities (revised quantity sheet to add additional item DRILLED DOWEL BARS at STA 68+50 and STA 70+50)   |
| 285 | Plan (revised legend item to correct details of concrete pavement)   |

| Added Plan Sheets |   |
|-------------------|---|
| Plan Sheet        | Plan Sheet Title (brief description of why sheet was added) |
| 323A              | SDD – Urban Dowelled Concrete Pavement                      |

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

*Mike Coleman*

Proposal Development Specialist  
Proposal Management Section

**ADDENDUM NO. 01**

**2070-03-71**

**April 24, 2019**

**Special Provisions**

**49. Luminaire Architectural LED 3, Item SPV.0060.304.**

*Add the following line after the B Materials Warranty: section line ii:*

- iii. If the failure rate is greater than or equal to 0.5% of the purchased quantity, the manufacturer is to hire a licensed electrical contractor to replace all the defective units in the field within the 10 year warranty period. Contact street lighting field office at 414-286-3015 to arrange the repairs/replacements.

**52. DELETED**

**53. Luminaire Utility LED 1, Item SPV.0060.309.**

*Delete the section B Materials and replace with the following:*

**B Materials**

Luminaire Utility LED 1

Leotek CV1-H-30K-2R-GY-060-PCR7-RWG-BBL-WL-SC-SP2L0, Philips RoadStar GPLS-32L530WW-G2-R2M-UNV-DMG-GY3, or approved equal.

Technical Specifications: All features below shall be incorporated into the equipment and all items shall be furnished and installed into a complete unit ready for operation.

Type: The LED luminaires purchased under this contract will be of Philips Roadstar GPLS series, Leotek CV1 series, or approved equal with the above order number. The luminaires shall be designed so it can efficiently produce uniform illumination in accordance with I.E.S. Type II light distribution and/or the I.E.S. Type III light distribution according to the lighting plan.

Housings: The housing and door shall be rugged, high quality, cast aluminum for maximum strength, durability and lasting beauty. All castings shall be free from pits, blowholes, or other irregularities. All edges are to be free from burrs.

1. Housing: The housing shall have an integral leveling pad or other suitable means for quick, easy and proper positioning of the luminaire.
2. Door: The door shall be hinged and easily opened for routine maintenance. All component parts shall be easily accessible with the lower housing opened. Tool-less entry is required.
3. Leveling: A Bubble level is to be located inside the electrical compartment for easy leveling at installation.
4. Hinges: Hinges shall be so constructed and designed to accurately position the door and assure a positive locking with the housing. The hinges shall be provided with a safety catch to prevent the accidental disengagement of the door during servicing.
5. Finish: The entire housing shall be polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process shall yields a finish that achieves a scribe

creepage rating of 8 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117)

6. Color: The luminaire shall be grey in color unless otherwise specified.
7. Label: There shall be a **NEMA label '1LED2'** clearly visible at 30 feet height attached to the door of the luminaire.
8. In addition, the luminaire complete model number and manufacturing date shall be indicated inside the housing.

Led/Optical Assembly:

Optical Assembly: The fixture optical assembly shall be NEMA IP66 rated for dust and water resistant and ANSI 3G rated vibration resistant for reliable lighting.  
The color temperature is to be 3,000K CCT.

Power Supply:

The Electronic driver must have an expected life of 100,000 hours at a 25°C ambient. It is to be rated at 240 volts, 60Hz. A driver with multiple input voltages can be supplied as long as it can operate at 240 volts.

Surge Protection:

A surge protector which provides a **minimum of 20kV/10kA protection** as per IEEE/ANSI C62.41 Category C is to be included. There shall be a visual indicator showing the surge protector is operational.

Terminal Block: A heavy duty terminal block shall be provided which will accept wire sizes up to #6 A.W.G. The terminal block shall be compatible with either aluminum or copper wire.

Mounting: Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. Provide a 4 bolt clamping mechanism with 3G vibration rating per ANSI C136.

Hardware: All nuts, bolts, latches, etc. furnished with the luminaire shall be fabricated from stainless steel or non-ferrous materials.

Photocontrol: There is to be no photocell supplied.

Warranty: The contractor and/or the manufacturer warrants that goods sold hereunder will be merchantable quality, will conform to applicable specifications, drawings designs, samples or descriptions, will be free from defects in material and workmanship and will be fit for the particular purpose intended by City of Milwaukee.

- i. This warranty will remain in effect for ten (10) years from date of acceptance.
- ii. Under this provision, the contractor and/or manufacturer agrees to repair or replace within a reasonable time, any part, feature or product found to be defective during the warranty period at no cost to the City.
- iii. If the failure rate is greater than or equal to 0.5% of the purchased quantity, the manufacturer is to hire a licensed electrical contractor to replace all the defective units in the field within the 10 years warranty period. Contact street lighting field office @ 414-286-3015 to arrange the repair/replacement.

**73. Pole Type 21 Aluminum with Transformer Base, Item SPV.0060.316.**

**A Description**

This special provision describes furnishing and installing Poles Type 21 with transformer base at the locations shown on the plans.

**B Materials**

All features below shall be incorporated in the assembly and all items furnished and installed into a complete unit ready for use.

Design: The bolt down aluminum street light pole shall be extruded, manufactured and finished by a single corporate entity. Minor deviations on the assembly that will not affect the strength, appearance, vertical and horizontal stability of the pole will be permitted, but all such deviations shall be approved by Street Lighting Engineer from City of Milwaukee DPW-Infrastructure Services Division.

Shaft: The pole shaft shall be manufactured from conically spun tapered 6063-T4 aluminum alloy (heat treated to T-6 condition after welding) meeting the provisions of ASTM B221 with a minimum wall thickness of 0.25" for either the single arm or the double arm application. The pole is to be round and tapered. The finish of the pole shaft is to be satin brushed finish. The assembly shall be complete with tapered aluminum shaft fitted with circumferentially welded anchor base at the top and bottom of the base, mounting surface cover plate and all necessary hardware.

The anchor base shall be fabricated from 256 or A356 alloy.

The top end of the aluminum shaft shall include a 3 ½" outside diameter X 12" aluminum tenon to accommodate a single or twin decorative tubular arm assembly as shown on the plan drawings. The exposed tenon welds shall be ground flush with the pole top creating a seamless transition.

The pole shafts shall be fitted with an externally reinforced, weather rated GFCI 120 Volt receptacle capable of accommodating an in-use receptacle cover.

A plaque with the pole number as shown on the plans shall be affixed onto the pole shaft.

Banner arm: All pole shaft shall be built as tenon mount unit and designed to be equipped with two sets of detachable, pole matching color, schedule 80 aluminum spring loaded banner arms. The banner arms are designed to be bolted into the pole at 90 ° and 270 ° perpendicular with the curb. The bolt holes shall be covered with weather resistant plug. The banner arms are part of the material to be installed.

Base Cover: Four cast aluminum bolt-on nut covers shall be provided to cover the bolts securing the pole assembly onto the transformer base. The bolt-on nut covers shall be secured with 1/4"-20 stainless steel tamper proof screws. The inside of the base cover shall be coated with a corrosion inhibiting finish.

Transformer Base: The pole assembly will be installed on a 17" frangible transformer base with mounting hardware. The transformer base is to be manufactured from cast aluminum (356-T6 alloy or equivalent) and a 9 ¾" bottom width X 9 ¼" top width base door is to be provided for cable connection inside the transformer base. The door is to be secured with ¼"-20 X 1" LG stainless steel tamper proof screws.

A weather resistant label with words:

"City of Milwaukee Street Lighting  
Call (414) 286-3015 for service"

shall be affixed onto the transformer base door.

LOADING AND STABILITY: The poles furnished under this specification shall support brackets as shown on drawing QTA2733 with two 30 pound fixtures of EPA of 1 mounted on top of the pole. In addition, the poles shall support double banners at street and house side of the pole, with 2' X 5' banners at height above finish

grade as shown on the plans. All pole design shall meet the 2013 AASHTO specifications for these poles as defined in their STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. The manufacturer shall submit engineering calculations for lighting poles to show that maximum stress and deflections do not exceed specified performance requirements under full design loading, as well as other certified reports and data which indicate that the poles meet all load requirements, within 30 days of the bid award. Engineering calculations shall be prepared and sealed by an engineer licensed in the State of Wisconsin.

The entire horizontal and vertical "wind sail" area of the pole assembly subject to wind load including arm and luminaire shall be designed to withstand the AASHTO standard specifications from above, for wind load requirements for a 90 MPH wind load with gust factor computed per section 3.8.5 and height and exposure factors from table.

WELDING: All welding shall be according to the applicable ASME Standards.

ACCESSORIES: All accessories (hand hole cover and base cover) are to be installed on the pole unless specified. Accessories supplied under separate cover will cause the bid to either be rejected or penalized.

### **C Construction**

The bolt down pole is to be set as illustrated in the plan with stainless steel locknut and washer for leveling. No other method of setting poles is acceptable. The poles should be parallel and perpendicular to the horizon once set.

Pole is to be wired as shown on the plans. A riser cables in pole shall be 30 feet in length and cut from copper 2#12 UF with ground cable (double run for pole with double fixtures). One wire shall be black, the other shall be white, and the ground can be either bare or green. All splicing is to be done inside the hand hole. The ground wires shall be spliced inside the hand hole and grounded to the housing of each fixture. The cable shall conform to NEC Article 340. The riser cable shall be continuous without splices. The electrical system in use utilizes a full system ground. The neutral is not to be grounded at any point.

### **D Measurement**

The department will measure Pole Type 21 with Transformer Base by each pole and base, acceptably completed.

### **E Payment**

The department will pay for measured quantities at the contract unit price under the following bid items:

| ITEM NUMBER  | DESCRIPTION                                 | UNIT |
|--------------|---|------|
| SPV.0060.316 | Pole Type 21 Aluminum with Transformer Base | EACH |

Payment is full compensation for the pole, riser cable or cables, and all connections. This bid price also includes for furnishing labor, equipment, coordination and all materials and incidentals necessary to complete the work.

## **74. Pole Type 21 Aluminum with Transformer Base Spare, Item SPV.0060.317.**

### **A Description**

This special provision describes furnishing bolt down aluminum pole 29' with transformer base at the locations shown on the plans.

Contractor is responsible to provide ten Bolt Down Aluminum pole 29' with Transformer Base to Street Lighting Department for replacement part purpose. Contact Jill Kramer at (414) 286-5947 for delivery information.

### **B Materials**

All features below shall be incorporated in the assembly and all items.

Design: The bolt down aluminum street light pole shall be extruded, manufactured and finished by a single corporate entity. Minor deviations on the assembly that will not affect the strength, appearance, vertical and horizontal stability of the pole will be permitted, but all such deviations shall be approved by Street Lighting Engineer from City of Milwaukee DPW-Infrastructure Services Division.

Shaft: The pole shaft shall be manufactured from conically spun tapered 6063-T4 aluminum alloy (heat treated to T-6 condition after welding) meeting the provisions of ASTM B221 with a minimum wall thickness of 0.25" for either the single arm or the double arm application. The pole is to be round and tapered. The finish of the pole shaft is to be satin brushed finish. The assembly shall be complete with tapered aluminum shaft fitted with circumferentially welded anchor base at the top and bottom of the base, mounting surface cover plate and all necessary hardware.

The anchor base shall be fabricated from 256 or A356 alloy.

The top end of the aluminum shaft shall include a 3 ½" outside diameter X 12" aluminum tenon to accommodate a single or twin decorative tubular arm assembly as shown on the plan drawings. The exposed tenon welds shall be ground flush with the pole top creating a seamless transition.

The pole shafts shall be fitted with an externally reinforced, weather rated GFCI 120 Volt receptacle capable of accommodating an in-use receptacle cover.

A plaque with the pole number as shown on the plans shall be affixed onto the pole shaft.

Banner arm: All pole shaft shall be built as tenon mount unit and designed to be equipped with two sets of detachable, pole matching color, schedule 80 aluminum spring loaded banner arms. The banner arms are designed to be bolted into the pole at 90 ° and 270 ° perpendicular with the curb. The bolt holes shall be covered with weather resistant plug. The banner arms are part of the material to be installed.

Base Cover: Four cast aluminum bolt-on nut covers shall be provided to cover the bolts securing the pole assembly onto the transformer base. The bolt-on nut covers shall be secured with 1/4"-20 stainless steel tamper proof screws. The inside of the base cover shall be coated with a corrosion inhibiting finish.

Transformer Base: The pole assembly will be installed on a 17" frangible transformer base with mounting hardware. The transformer base is to be manufactured from cast aluminum (356-T6 alloy or equivalent) and a 9 ¾" bottom width X 9 ¼" top width base door is to be provided for cable connection inside the transformer base. The door is to be secured with ¼"-20 X 1" LG stainless steel tamper proof screws.

A weather resistant label with words:

"City of Milwaukee Street Lighting Call (414) 286-3015 for service"

shall be affixed onto the transformer base door.

Loading and Stability: The poles furnished under this specification shall support brackets as shown on drawing QTA2733 with two 30 pound fixtures of EPA of 1 mounted on top of the pole. In addition, the poles shall support double banners at street and house side of the pole, with 2' X 5' banners at height above finish grade as shown on the plans. All pole design shall meet the 2013 AASHTO specifications for these poles as defined in their STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. The manufacturer shall submit engineering calculations for lighting poles to show that maximum stress and deflections do not exceed specified performance requirements under full design loading, as well as other certified reports and data which indicate that the poles meet all load requirements, within 30 days of the bid award. Engineering calculations shall be prepared and sealed by an engineer licensed in the State of Wisconsin.

The entire horizontal and vertical "wind sail" area of the pole assembly subject to wind load including arm and luminaire shall be designed to withstand the AASHTO standard specifications from above, for wind load requirements for a 90 MPH wind load with gust factor computed per section 3.8.5 and height and exposure factors from table.

Welding: All welding shall be according to the applicable ASME Standards.



Accessories: All accessories (hand hole cover and base cover) are to be installed on the pole unless specified. Accessories supplied under separate cover will cause the bid to either be rejected or penalized.

**C Construction**

None.

**D Measurement**

The department will measure Pole Type 21 Spare with Transformer Base by each unit, acceptably delivered.

**E Payment**

The department will pay for measured quantities at the contract unit price under the following bid items:

| ITEM NUMBER  | DESCRIPTION                                       | UNIT |
|--------------|---|------|
| SPV.0060.317 | Pole Type 21 Aluminim with Transformer Base Spare | EACH |

Payment is full compensation for furnishing all materials.

**Schedule of Items**

Attached, dated April 24, 2019, are the revised Schedule of Items Pages 10 – 12.

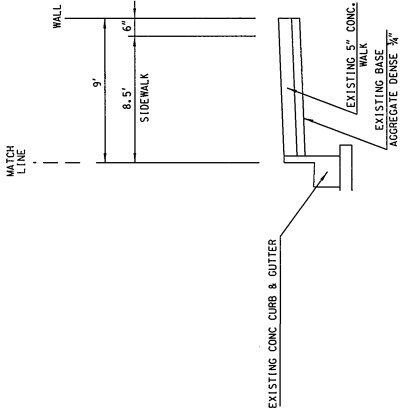
**Plan Sheets**

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

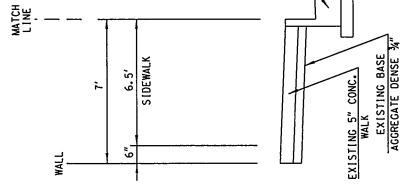
Revised: 21, 70, 209, 217, 249, 250, 256 and 285.

Added: 323A

END OF ADDENDUM

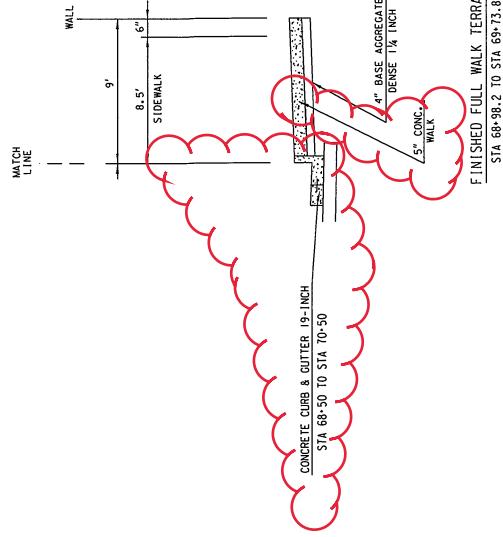


EXISTING FULL WALK TERRACE  
STA 68+98.2 TO STA 69+73.8

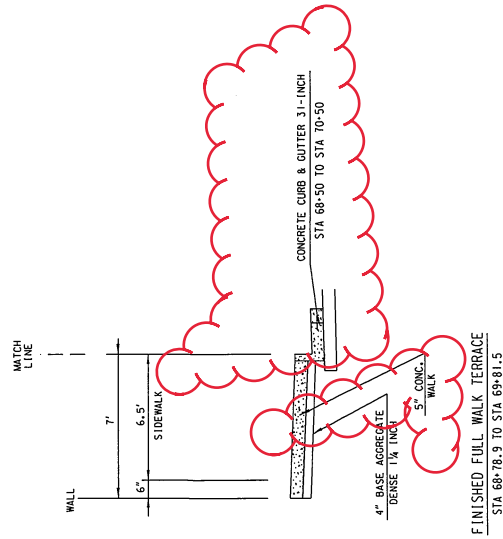


EXISTING FULL WALK TERRACE  
STA 68+78.9 TO STA 69+81.5

Addendum No. 01  
ID 2070-03-71  
Revised Sheet 21  
April 24 2019

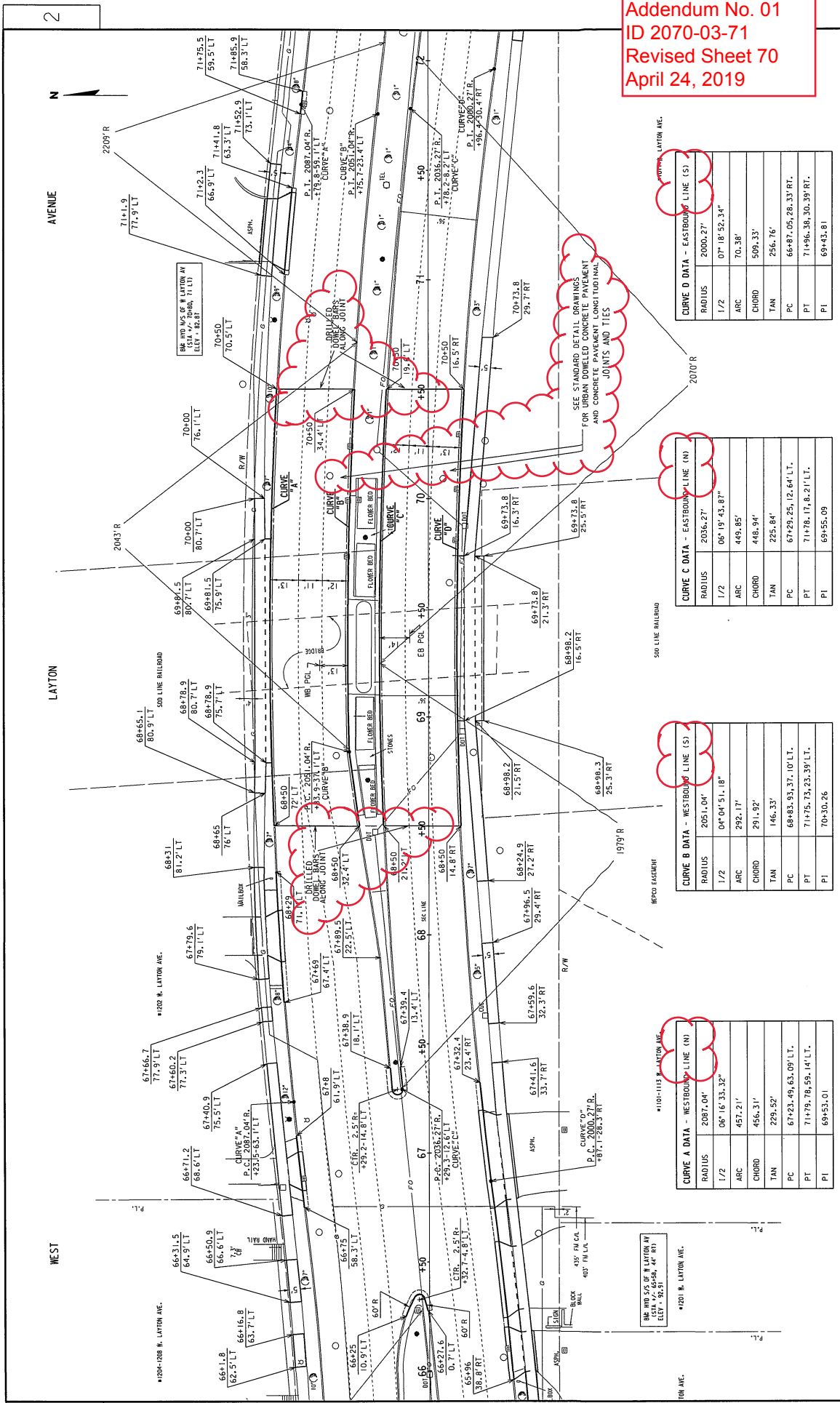


FINISHED FULL WALK TERRACE  
STA 68+98.2 TO STA 69+73.8



FINISHED FULL WALK TERRACE  
STA 68+78.9 TO STA 69+81.5

Addendum No. 01  
 ID 2070-03-71  
 Revised Sheet 70  
 April 24, 2019



**CURVE D DATA - EASTBOUND LINE (S)**

|        |                      |
|--------|----------------------|
| RADIUS | 2000.27'             |
| 1/2    | 07' 18" 32.34"       |
| ARC    | 70.38'               |
| CHORD  | 509.33'              |
| TAN    | 256.76'              |
| PC     | 66+97.05, 28.33' RT. |
| PT     | 71+96.38, 30.39' RT. |
| PI     | 69+43.81'            |

**CURVE C DATA - EASTBOUND LINE (M)**

|        |                      |
|--------|----------------------|
| RADIUS | 2036.27'             |
| 1/2    | 06° 19' 43.87"       |
| ARC    | 449.85'              |
| CHORD  | 448.94'              |
| TAN    | 225.84'              |
| PC     | 67+29.25, 12.64' LT. |
| PT     | 71+78.17, 8.21' LT.  |
| PI     | 69+55.09'            |

**CURVE B DATA - WESTBOUND LINE (S)**

|        |                      |
|--------|----------------------|
| RADIUS | 2051.04'             |
| 1/2    | 04° 04' 51.18"       |
| ARC    | 292.17'              |
| CHORD  | 291.92'              |
| TAN    | 146.33'              |
| PC     | 68+93.83, 37.10' LT. |
| PT     | 71+75.73, 23.39' LT. |
| PI     | 70+50.26'            |

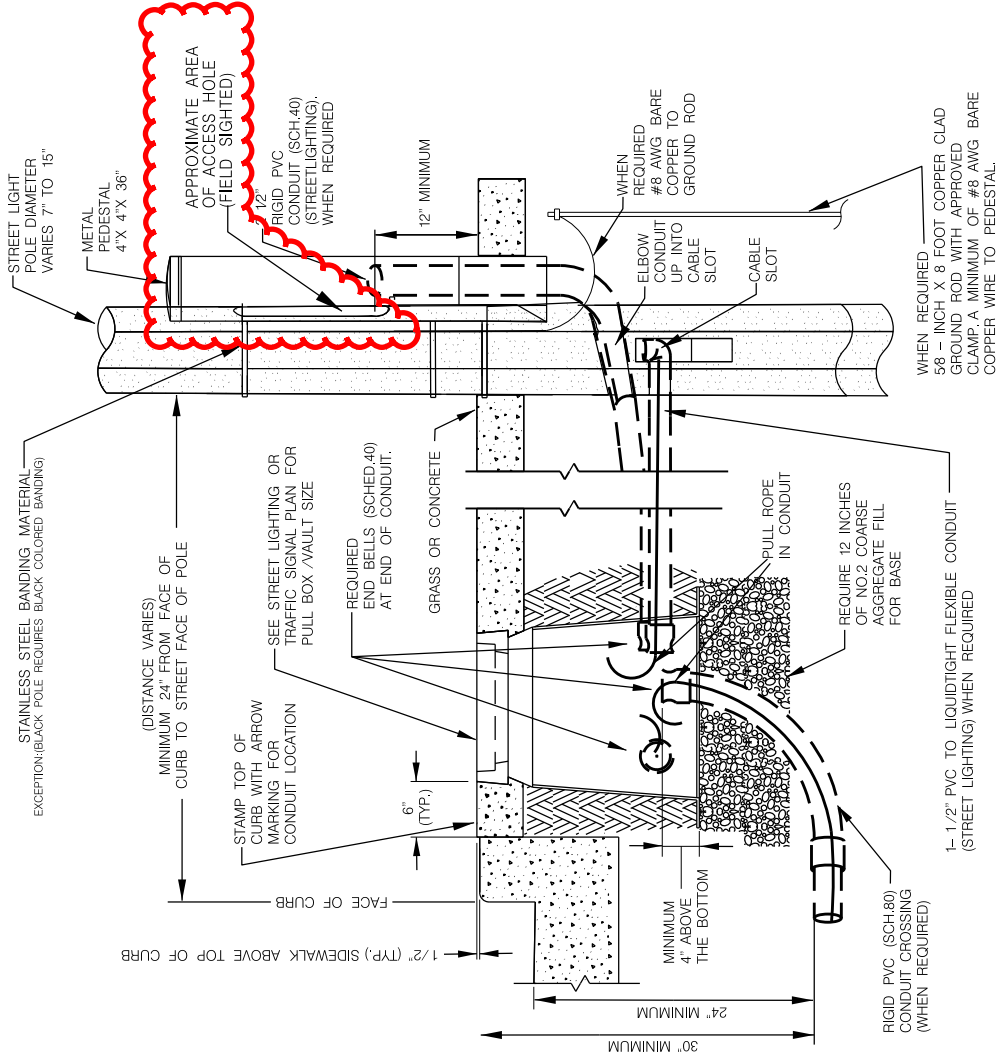
**CURVE A DATA - WESTBOUND LINE (M)**

|        |                      |
|--------|----------------------|
| RADIUS | 2097.04'             |
| 1/2    | 08° 16' 33.32"       |
| ARC    | 457.21'              |
| CHORD  | 456.31'              |
| TAN    | 229.52'              |
| PC     | 67+23.49, 63.09' LT. |
| PT     | 71+79.78, 59.14' LT. |
| PI     | 69+53.01'            |

STATE PROJECT NUMBER 2070-03-71 - - HWY: LOCAL STREET COUNTY: MILWAUKEE PLAN DETAIL SCALE FEET 40 SHEET NOS: 70

FILENAME: W:\SPR\LAYTON\27TH TO HOWELL\ADDENDUM\PRET 66-72 4-17-19.DGN REVISED DATE: 04-17-2019 BY: HO

Addendum No. 01  
ID 2070-03-71  
Revised Sheet 209  
April 24, 2019



108A  
 DETAIL VERSION  
 TYPICAL CONDUIT INSTALLATION  
 FROM PULL BOX TO POLE & 4"x4" WIRING PEDESTAL

NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.  
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

2

TYPE 21 POLE PROFILE WITH LUMINAIRES

NOTES:

1. STAINLESS 1/4" X 20 X 1" CARRIAGE BOLT FOR GROUNDING IN BACK PANEL 1/2" DIA. AREA FREE OF PAINT AROUND BOLT.
2. EXTERNAL DIMPLES TO PROVIDE BACK PANEL CLEARANCE TO POLE FOR OPENING AND CLOSING UPPER PANEL.
3. RECESSED CUP PREVENTS RECESSING 5/16 HEX HEAD LOCKING BOLT. THIS BOLT FITS PRESENT CITY OF MILWAUKEE TOOLING. LOCKING BOLT IS HELD IN PLACE WITH RETAINING RING. THIS BOLT MAY BE REPLACED BY A SECURITY BOLT IF DESIRED.
4. 1/4 X 1-1/4" SLOT (4) FOR BANDING ACCESS.
5. DOGLEG SLOT PREVENTS PULLING COVER OUTWARD WHILE LOCKED.
6. HORIZONTAL SLOT PREVENTS PULLING COVER UPWARD WHILE LOCKED.
7. SHOULDER RIVETS PROVIDE FOR SECURITY IN UNIT WHEN USED IN CONJUNCTION WITH ITEMS 5 & 6.

BACK PANEL WITH LOWER INSTALLED

UPPER FRONT REMOVED

LOWER REMOVED  
NOT TO SCALE

Addendum No. 01  
ID 2070-03-71  
Revised Sheet 217  
April 24, 2019

METAL WIRING PEDESTAL 4" X 4" X 36"

SHEET 13 OF 13

PROJECT NO: 2070-03-71

HWY: W. LAYTON AVE.

COUNTY: MILWAUKEE

STREET LIGHTING DETAILS

SHEET 217

E

FILE NAME : W:\es\pawings\2070\work\W Layton Ave - 27th to Howell (2070-03-71)\ARCH - LAMP.dgn

PLOT DATE : 20-Apr-2019 08:04

PLOT BY : InChm

PLOT NAME :

PLOT SCALE : 47.248895:1000000

STREET LIGHTING ITEMS

CATEGORY 0010

|                                     |               |           |              |           |
|-------------------------------------|---------------|-----------|--------------|-----------|
| 652.0230                            | 652.0235*     | 652.0615* | 655.0305     | 657.0808  |
| CONDUIT RIGID                       | CONDUIT RIGID | CONDUIT   | CABLE        | LUMINAIRE |
| NONMETALLIC                         | NONMETALLIC   | SPECIAL   | TYPE         | ARMS      |
| SCHEDULE 40                         | SCHEDULE 40   | 3-INCH    | UF 2#12      | STEEL     |
| 2 1/2-INCH                          | 3-INCH        | LF        | AWG GROUNDED | 8-FOOT    |
| LF                                  | LF            | LF        | LF           | EACH      |
| 2,080                               | 10,770        | 4,250     | 5,740        | 13        |
| <b>W. LAYTON AVE. PROJECT TOTAL</b> |               |           |              |           |

|                                     |                 |                 |              |                       |              |                 |                 |
|-------------------------------------|-----------------|-----------------|--------------|-----------------------|--------------|-----------------|-----------------|
| SPV.0060.304                        | SPV.0060.305    | SPV.0060.306    | SPV.0060.307 | SPV.0060.308          | SPV.0060.309 | SPV.0060.310    | SPV.0060.311    |
| LUMINAIRE                           | STREET LIGHTING | STREET LIGHTING | CONCRETE     | POLE                  | LUMINAIRE    | METAL WIRING    | METERED OUTLET  |
| ARCHITECTURAL                       | SINGLE          | DOUBLE          | LIGHT        | TYPE 21               | UTILITY      | PEDESTAL        | SERVICE         |
| LED 3                               | BRACKET ARM     | BRACKET ARM     | BASES        | ALUMINUM              | LED 1        | 4-INCH x 4-INCH | PEDESTAL        |
| EACH                                | 8'              | 8'              | TYPE 21      | WITH TRANSFORMER BASE | LED 1        | x 36-INCH       | 100A - 120/240V |
| 173                                 | EACH            | EACH            | EACH         | EACH                  | EACH         | EACH            | EACH            |
| 173                                 | 12              | 70              | 82           | 82                    | 9            | 8               | 1               |
| <b>W. LAYTON AVE. PROJECT TOTAL</b> |                 |                 |              |                       |              |                 |                 |

|                                     |                   |              |              |              |
|-------------------------------------|-------------------|--------------|--------------|--------------|
| SPV.0060.301*                       | SPV.0060.302      | SPV.0060.303 | SPV.0090.304 | SPV.0090.305 |
| PULL BOXES                          | PULL BOXES        | REMOVE       | ELECTRICAL   | LIQUID       |
| 17-INCH x 30-INCH                   | 13-INCH x 24-INCH | LUMINAIRE    | CABLE        | TIGHT        |
| x 24-INCH                           | x 24-INCH         |              | TYPE         | FLEXIBLE     |
| EACH                                | EACH              | EACH         | 3#2/1#8      | NONMETALLIC  |
| 1                                   | 106               | 17           | LTP          | CONDUIT      |
| 1                                   | 106               | 17           | LF           | LF           |
| <b>W. LAYTON AVE. PROJECT TOTAL</b> |                   |              |              |              |

|                                     |              |              |              |              |
|-------------------------------------|--------------|--------------|--------------|--------------|
| SPV.0090.301                        | SPV.0090.302 | SPV.0090.303 | SPV.0090.304 | SPV.0090.305 |
| ELECTRICAL                          | ELECTRICAL   | ELECTRICAL   | ELECTRICAL   | LIQUID       |
| CABLE                               | CABLE        | CABLE        | CABLE        | TIGHT        |
| TYPE                                | TYPE         | TYPE         | TYPE         | FLEXIBLE     |
| 3#8/1#8                             | 3#6/1#8      | 3#4/1#8      | 3#2/1#8      | NONMETALLIC  |
| LTP                                 | LTP          | LTP          | LTP          | CONDUIT      |
| LF                                  | LF           | LF           | LF           | LF           |
| 15,330                              | 3,090        | 4,700        | 12,850       | 200          |
| <b>W. LAYTON AVE. PROJECT TOTAL</b> |              |              |              |              |

\* ADDITIONAL QUANTITIES FOUND ELSEWHERE

Addendum No. 01  
 ID 2070-03-71  
 Revised Sheet 249  
 April 24, 2019

Addendum No. 01  
ID 2070-03-71  
Revised Sheet 250  
April 24, 2019

STREET LIGHTING SPARES ITEMS

CATEGORY 0020

SPV.0060.312  
LUMINAIRE  
ARCHITECTURAL  
LED 3

SPARE  
EACH  
18  
PROJECT TOTAL

SPV.0060.313  
POLE  
TYPE 21  
ALUMINUM

WITH TRANSFORMER BASE  
SPARE  
EACH  
10

SPV.0060.314  
STREET LIGHTING  
SINGLE  
BRACKET ARM

8'  
SPARE  
EACH  
6

SPV.0060.315  
STREET LIGHTING  
DOUBLE  
BRACKET ARM

8'  
SPARE  
EACH  
7

2070-03-71

PAVEMENT RELATED CONSTRUCTION ITEMS

| CATEGORY              | LOCATION (STA TO STA) | CONCRETE PAVEMENT 10-INCH |              | CONCRETE DRIVEWAY 8-INCH |          | CONCRETE DRIVEWAY 7-INCH |              | CONCRETE DRIVEWAY 8-INCH |              | TACK COAT    |              | HMA PAVEMENT 3 MT 58-28 S |              | HMA PAVEMENT 4 MT 58-28 S |              |
|-----------------------|-----------------------|---------------------------|--------------|--------------------------|----------|--------------------------|--------------|--------------------------|--------------|--------------|--------------|---------------------------|--------------|---------------------------|--------------|
|                       |                       | LEFT                      | RIGHT        | LEFT                     | RIGHT    | LEFT                     | RIGHT        | LEFT                     | RIGHT        | LEFT         | RIGHT        | LEFT                      | RIGHT        | LEFT                      | RIGHT        |
| ITEM NO.              | 415.0100              | 70                        | 70           | -                        | -        | -                        | -            | -                        | -            | 20           | 20           | 245                       | 280          | 160                       | 185          |
| UNIT PAY              | SY                    | 0010                      | 0010         | 0010                     | 0010     | 0010                     | 0010         | 0010                     | 0010         | 0010         | 0010         | 0010                      | 0010         | 0010                      | 0010         |
| LOCATION (STA TO STA) | 10+00 TO 12+00        | -                         | -            | -                        | -        | -                        | -            | -                        | -            | -            | -            | -                         | -            | -                         | -            |
| LOCATION (STA TO STA) | 12+00 TO 18+00        | 70                        | 70           | -                        | -        | 30                       | 30           | -                        | -            | 70           | 70           | 362                       | 380          | 268                       | 281          |
| LOCATION (STA TO STA) | 18+00 TO 24+00        | 50                        | 70           | -                        | -        | -                        | -            | -                        | -            | 70           | 70           | 345                       | 345          | 255                       | 255          |
| LOCATION (STA TO STA) | 24+00 TO 30+00        | 40                        | 70           | -                        | -        | 10                       | 10           | -                        | -            | 60           | 70           | 334                       | 339          | 247                       | 251          |
| LOCATION (STA TO STA) | 30+00 TO 35+00        | 60                        | -            | -                        | -        | 30                       | -            | -                        | -            | 50           | 60           | 270                       | 288          | 200                       | 213          |
| LOCATION (STA TO STA) | 35+00 TO 41+00        | 70                        | 70           | -                        | -        | 70                       | -            | -                        | -            | 60           | 50           | 293                       | 259          | 217                       | 191          |
| LOCATION (STA TO STA) | 54+00 TO 60+00        | -                         | -            | -                        | -        | -                        | -            | -                        | -            | 120          | 120          | 69                        | 69           | 51                        | 51           |
| LOCATION (STA TO STA) | 60+00 TO 66+00        | 130                       | 130          | -                        | -        | 340                      | 130          | -                        | -            | 70           | 70           | 368                       | 368          | 271                       | 272          |
| LOCATION (STA TO STA) | 66+00 TO 72+00        | 1,250                     | 270          | -                        | -        | 70                       | 100          | 24                       | 24           | 40           | 30           | 213                       | 144          | 162                       | 106          |
| LOCATION (STA TO STA) | 72+00 TO 78+00        | 70                        | 70           | 20                       | -        | 60                       | 190          | -                        | -            | 40           | 60           | 362                       | 311          | 268                       | 230          |
| LOCATION (STA TO STA) | 78+00 TO 84+00        | -                         | 70           | 20                       | -        | 60                       | 130          | -                        | -            | 70           | 60           | 351                       | 322          | 259                       | 238          |
| LOCATION (STA TO STA) | 84+00 TO 90+00        | 70                        | 150          | 50                       | -        | -                        | 40           | -                        | -            | 80           | 90           | 431                       | 437          | 328                       | 323          |
| LOCATION (STA TO STA) | 90+00 TO 96+00        | 70                        | 70           | -                        | -        | 210                      | 170          | -                        | -            | 70           | 70           | 355                       | 343          | 271                       | 255          |
| LOCATION (STA TO STA) | 96+00 TO 102+00       | -                         | -            | -                        | -        | -                        | 250          | -                        | -            | 70           | 70           | 338                       | 332          | 263                       | 251          |
| LOCATION (STA TO STA) | 102+00 TO 108+00      | 70                        | 70           | -                        | -        | 240                      | 160          | -                        | -            | 70           | 60           | 343                       | 321          | 267                       | 242          |
| LOCATION (STA TO STA) | 108+00 TO 114+00      | -                         | -            | -                        | -        | 40                       | 120          | -                        | -            | 20           | 20           | 113                       | 118          | 88                        | 89           |
| <b>SUBTOTALS</b>      |                       | <b>1,950</b>              | <b>1,110</b> | <b>90</b>                | <b>0</b> | <b>50</b>                | <b>30</b>    | <b>24</b>                | <b>24</b>    | <b>980</b>   | <b>990</b>   | <b>4,791</b>              | <b>4,654</b> | <b>3,573</b>              | <b>3,432</b> |
| <b>GRAND TOTALS</b>   |                       | <b>3,060</b>              |              | <b>90</b>                |          | <b>80</b>                | <b>2,590</b> | <b>48</b>                | <b>1,970</b> | <b>9,445</b> | <b>7,005</b> |                           |              |                           |              |

2070-03-71

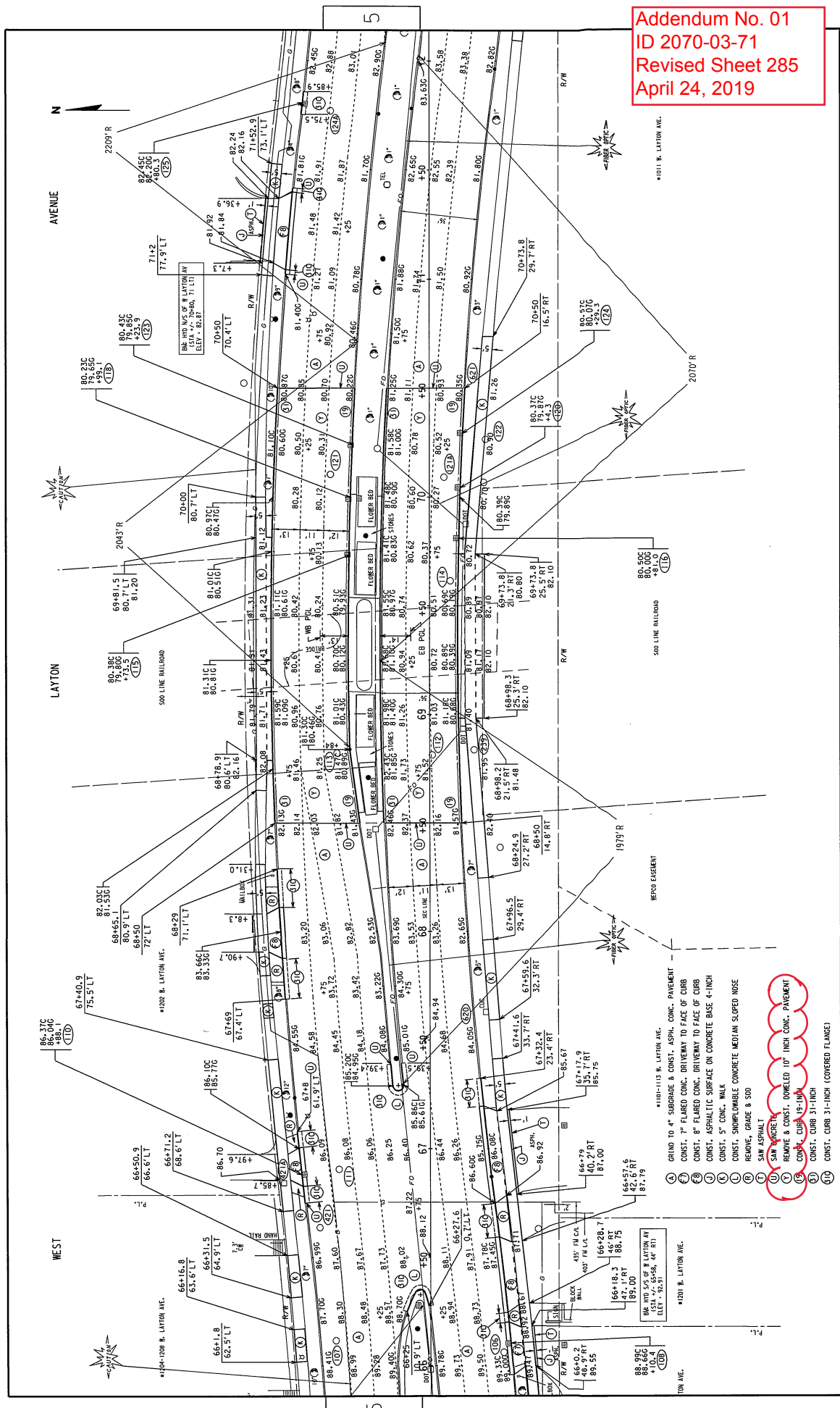
PAVEMENT RELATED SPECIAL CONSTRUCTION ITEMS

| CATEGORY              | LOCATION (STA TO STA) | CONCRETE DRIVEWAY 7-INCH |           | CONCRETE DRIVEWAY 8-INCH |           |
|-----------------------|-----------------------|--------------------------|-----------|--------------------------|-----------|
|                       |                       | LEFT                     | RIGHT     | LEFT                     | RIGHT     |
| ITEM NO.              | SPV.0180.001          | -                        | -         | -                        | -         |
| UNIT PAY              | SY                    | 0010                     | 0010      | 0010                     | 0010      |
| LOCATION (STA TO STA) | 10+00 TO 12+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 12+00 TO 18+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 18+00 TO 24+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 24+00 TO 30+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 30+00 TO 35+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 35+00 TO 41+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 54+00 TO 60+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 60+00 TO 66+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 66+00 TO 72+00        | -                        | -         | 10                       | 20        |
| LOCATION (STA TO STA) | 72+00 TO 78+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 78+00 TO 84+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 84+00 TO 90+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 90+00 TO 96+00        | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 96+00 TO 102+00       | -                        | -         | 10                       | -         |
| LOCATION (STA TO STA) | 102+00 TO 108+00      | -                        | -         | -                        | -         |
| LOCATION (STA TO STA) | 108+00 TO 114+00      | -                        | -         | -                        | -         |
| <b>SUBTOTALS</b>      |                       | <b>0</b>                 | <b>10</b> | <b>10</b>                | <b>40</b> |
| <b>GRAND TOTALS</b>   |                       | <b>10</b>                | <b>50</b> |                          |           |

Addendum No. 01  
 ID 2070-03-71  
 Revised Sheet 256  
 April 24, 2019



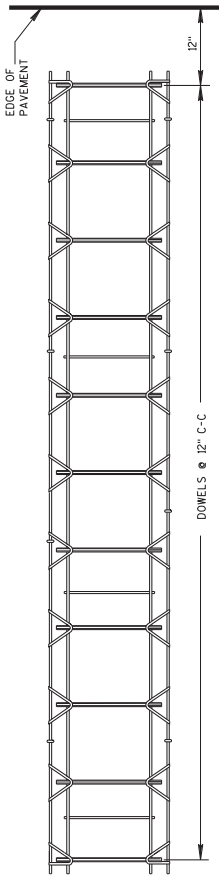
Addendum No. 01  
 ID 2070-03-71  
 Revised Sheet 285  
 April 24, 2019



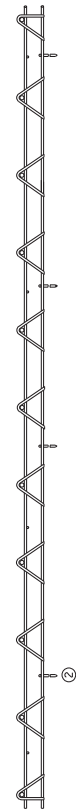
STATE PROJECT NUMBER 2070-03-71 HWY: LOCAL STREET COUNTY: MILWAUKEE PLAN SCALE FEET 1"=40' SHEET NO: 285

FILENAME: W:\SPR\LAYTON\_21TH TO HOWELL\ADDENDUM\66-72 4-16-19.DWG REVISION DATE: 04-16-2019 BY: PRM

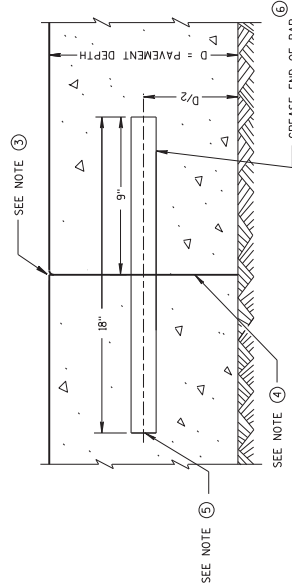
- ① GRIND TO 4" SUBGRADE & CONST. ASPH. CONC. PAVEMENT
- ② CONST. 7" FLARED CONC. DRIVEWAY TO FACE OF CURB
- ③ CONST. 8" FLARED CONC. DRIVEWAY TO FACE OF CURB
- ④ CONST. ASPHALTIC SURFACE ON CONCRETE BASE 4-INCH
- ⑤ CONST. 5" CONC. WALK
- ⑥ CONST. SHOULDER CONCRETE MEDIUM SLOPED NOSE
- ⑦ REMOVE, GRADE & S/D
- ⑧ SAW ASPHALT
- ⑨ SAW CONCRETE
- ⑩ REMOVE & CONST. DOWELED 10" INCH CONC. PAVEMENT
- ⑪ CONST. CURB 15-18"
- ⑫ CONST. CURB 31-INCH
- ⑬ CONST. CURB 31-INCH (COVERED FLANGE)



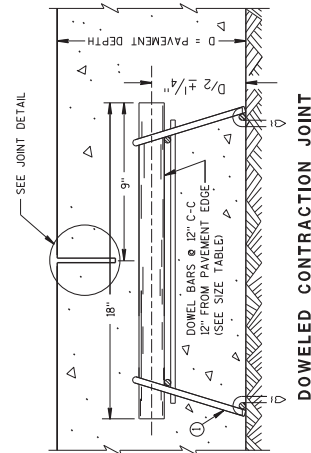
PLAN VIEW



SIDE VIEW  
CONTRACTION JOINT DOWEL ASSEMBLY



TRANSVERSE CONSTRUCTION JOINT



DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE  
AND JOINT SPACING TABLE

| PAVEMENT DEPTH (D) | DOWEL BAR DIAMETER | CONTRACTION JOINT SPACING |
|--------------------|--------------------|---------------------------|
| 5 1/2' - 6' 1/2'   | NONE               | 12'                       |
| 7' - 7 1/2'        | 1"                 | 14'                       |
| 8' - 8 1/2'        | 1 1/4"             | 15'                       |
| 9' - 9 1/2'        | 1 1/2"             | 15'                       |
| 10' & ABOVE        | 1 1/2"             | 15'                       |

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.  
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

1 OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

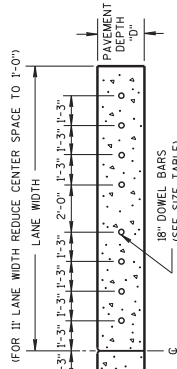
2 SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

3 FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.  
4 PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

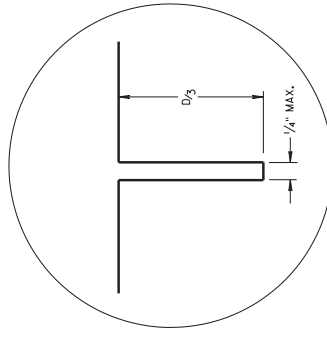
5 INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT SURFACE. EXCESS CONCRETE FROM THE END OF THE DOWEL BARS SHOULD BE REMOVED. DOWEL BARS ARE TO BE SMOOTH SURFACE FINISH. REFER TO THE DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

6 APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

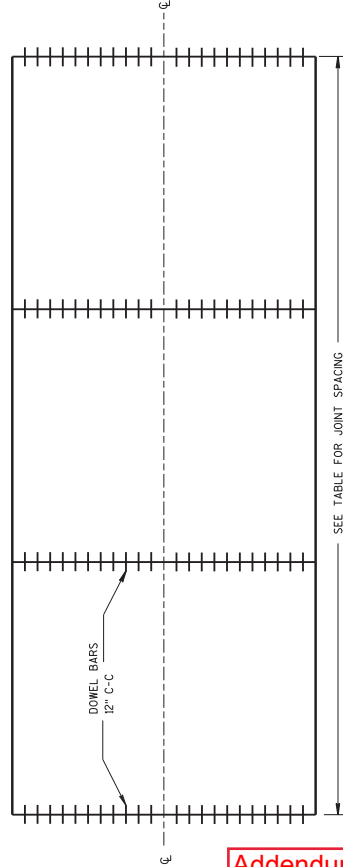
7 ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



DRILLED DOWEL BAR CONSTRUCTION JOINT



JOINT DETAIL



SEE TABLE FOR JOINT SPACING

CONTRACTION JOINT LOCATIONS

Addendum No. 01  
ID 2070-03-71  
Added Sheet 323A  
April 24, 2019

URBAN DOWELED  
CONCRETE PAVEMENT

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
Mrc-h 2018  
DATE: 7/5/ Peter Kemp, P.E.  
PAVEMENT SUPERVISOR  
FHWA



## Proposal Schedule of Items

Proposal ID: 20190514017 Project(s): 2070-03-71

Federal ID(s): WISC 2019288

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

| Proposal Line Number | Item ID Description  | Approximate Quantity and Units | Unit Price | Bid Amount |
|----------------------|--|--------------------------------|------------|------------|
| 0280                 | SPV.0060<br>Special 307. Concrete Light Bases Type 21                    | 82.000<br>EACH                 | _____.     | _____.     |
| 0284                 | SPV.0060<br>Special 309. Luminaire Utility LED 1                         | 9.000<br>EACH                  | _____.     | _____.     |
| 0286                 | SPV.0060<br>Special 310. Metal Wiring Pedestal 4-Inch x 4-Inch x 36-Inch | 8.000<br>EACH                  | _____.     | _____.     |
| 0288                 | SPV.0060<br>Special 311. Metered Outlet Service Pedestal 100A-120/240V   | 1.000<br>EACH                  | _____.     | _____.     |
| 0290                 | SPV.0060<br>Special 312. Luminaire Architectural LED 3 Spare             | 18.000<br>EACH                 | _____.     | _____.     |
| 0294                 | SPV.0060<br>Special 314. Street Lighting Single Bracket Arm 8' Spare     | 6.000<br>EACH                  | _____.     | _____.     |
| 0296                 | SPV.0060<br>Special 315. Street Lighting Double Bracket Arm 8' Spare     | 7.000<br>EACH                  | _____.     | _____.     |
| 0298                 | SPV.0060<br>Special 401. Adjusting CUC Manhole Covers                    | 23.000<br>EACH                 | _____.     | _____.     |
| 0300                 | SPV.0060<br>Special 402. Installing Conduit Into Existing Manhole        | 3.000<br>EACH                  | _____.     | _____.     |
| 0302                 | SPV.0090<br>Special 001. Construction Staking Concrete Sidewalk          | 13,100.000<br>LF               | _____.     | _____.     |
| 0304                 | SPV.0090<br>Special 002. Construction Staking Upper Layer                | 15,770.000<br>LF               | _____.     | _____.     |
| 0306                 | SPV.0090<br>Special 003. Construction Staking Lower Layer                | 15,770.000<br>LF               | _____.     | _____.     |
| 0308                 | SPV.0090<br>Special 004. Marking Line Epoxy 6-Inch                       | 12,400.000<br>LF               | _____.     | _____.     |



Proposal Schedule of Items

Proposal ID: 20190514017 Project(s): 2070-03-71

Federal ID(s): WISC 2019288

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

| Proposal Line Number | Item ID Description   | Approximate Quantity and Units | Unit Price | Bid Amount |
|----------------------|---|--------------------------------|------------|------------|
| 0310                 | SPV.0090<br>Special 005. Marking Crosswalk<br>Preformed Plastic 12-Inch                               | 2,200.000<br>LF                | _____.     | _____.     |
| 0312                 | SPV.0090<br>Special 006. Culvert Overhead Joint<br>Repair   | 90.000<br>LF                   | _____.     | _____.     |
| 0314                 | SPV.0090<br>Special 007. Marking Line Preformed<br>Plastic 24-Inch                                    | 855.000<br>LF                  | _____.     | _____.     |
| 0316                 | SPV.0090<br>Special 008. Joint & Crack Repair   | 1,000.000<br>LF                | _____.     | _____.     |
| 0318                 | SPV.0090<br>Special 301. Electrical Cable Type<br>3#8/1#8 XLP   | 15,330.000<br>LF               | _____.     | _____.     |
| 0320                 | SPV.0090<br>Special 302. Electrical Cable Type<br>3#6/1#8 XLP   | 3,090.000<br>LF                | _____.     | _____.     |
| 0322                 | SPV.0090<br>Special 303. Electrical Cable Type<br>3#4/1#8 XLP   | 4,700.000<br>LF                | _____.     | _____.     |
| 0324                 | SPV.0090<br>Special 304. Electrical Cable Type<br>3#2/1#8 XLP   | 12,850.000<br>LF               | _____.     | _____.     |
| 0326                 | SPV.0090<br>Special 305. 1 1/2" Liquid Tight Flexible<br>Nonmetallic Conduit Type-B                   | 200.000<br>LF                  | _____.     | _____.     |
| 0328                 | SPV.0090<br>Special 401. 2-Duct Conduit, Cement<br>Encased, 4-inch rigid Nonmetallic<br>Conduit DB-60 | 209.000<br>LF                  | _____.     | _____.     |
| 0330                 | SPV.0165<br>Special 001. Skid/Slip Resistant Green<br>Thermoplastic Integrated Bike Lane<br>Panel     | 115.000<br>SF                  | _____.     | _____.     |
| 0332                 | SPV.0180<br>Special 001. Concrete Driveway SHES<br>7-Inch   | 10.000<br>SY                   | _____.     | _____.     |
| 0334                 | SPV.0180<br>Special 002. Concrete Driveway SHES<br>8-Inch   | 50.000<br>SY                   | _____.     | _____.     |



Proposal Schedule of Items

Proposal ID: 20190514017 Project(s): 2070-03-71

Federal ID(s): WISC 2019288

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

| Proposal Line Number | Item ID Description  | Approximate Quantity and Units | Unit Price | Bid Amount |
|----------------------|--|--------------------------------|------------|------------|
| 0336                 | SPV.0195<br>Special 001. Excavation, Hauling, and Disposal of Lead Contaminated Soil | 152.000<br>TON                 | _____.     | _____.     |
| 0338                 | SPV.0195<br>Special 002. Excavation, Hauling, and Disposal of CVOC Contaminated Soil | 237.000<br>TON                 | _____.     | _____.     |
| 0340                 | 416.0620<br>Drilled Dowel Bars   | 48.000<br>EACH                 | _____.     | _____.     |
| 0342                 | SPV.0060<br>Special 316. Pole Type 21 Aluminum with Transformer Base                 | 82.000<br>EACH                 | _____.     | _____.     |
| 0344                 | SPV.0060<br>Special 317. Pole Type 21 Aluminum with Transformer Base Spare           | 10.000<br>EACH                 | _____.     | _____.     |
| Section: 0001        |  |                                | Total:     | _____.     |
|                      |  |                                | Total Bid: | _____.     |

