



SUBMITTAL SHEET

Dondlinger Construction

120035- - COW -Cheney Pump Station Ozone Strainer Replacement

Project: 120035-
COW -Cheney Pump Station Ozone Strainer
Replacement

Spec Section Num: 26 05 00
Submittal: 260500-01

Revision: 0
Package: Electrical
Date: 11/19/2020 UTC

Submittal Title: Electrical: Product Data
Submittal Detail:
Response Due By: 11/30/2020 UTC


Contractor:
Eric Swenson
Dondlinger Construction

Contractor's Stamp	
DONDLINGER AND SONS CONST. CO., INC.	
<input checked="" type="checkbox"/>	Reviewed <u>Eric Swenson</u>
<input type="checkbox"/>	Reviewed as Noted _____
<input type="checkbox"/>	Revise and Resubmit _____
<input checked="" type="checkbox"/>	Date <u>11/19/20</u>
<input checked="" type="checkbox"/>	Submittal No. <u>260500-01</u>
REVIEW OF ITEMS DOES NOT RELIEVE VENDOR FROM COMPLYING WITH REQUIREMENTS OF CONTRACT PLANS AND SPECIFICATIONS, CONTRACT AND CITY, STATE AND LOCAL CODES.	

Architect:
Aidan Gearhart
PEC

Architect's Stamp

Response:
Comment:

SUBMITTAL REVIEW FOR ENGINEERED COMPONENTS	
<input checked="" type="checkbox"/> APPROVED	See Contract Documents for Contractor's engineered component responsibility. Approval is only for general conformance with the design criteria of the project. Contractor at all times remains solely responsible for compliance with the Contract Documents, including dimensions and safety analyses. Deviations are not approved unless Contractor has in writing called Engineer's attention to such deviation at the time of submission and Engineer has in writing approved the specific deviation. No acceptance by Engineer relieves Contractor from responsibility for errors or omissions in Compliance Submittals.
<input type="checkbox"/> APPROVED AS NOTED If checked above, fabrication MAY be undertaken and re-submittal is not required unless specifically noted in the correction comments. Review does not authorize changes to Contract Sum unless stated in a Change Order.	
<input type="checkbox"/> REVISE AND RESUBMIT	
<input type="checkbox"/> REJECTED	
5/10	
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A. BY <u>RWW</u> DATE <u>11/27/2020</u>	

Shelley Electric, Inc.

Submittal # 26 05 19-001

Job: COW-Cheney Pump Station Ozone Strainer

Architect Info: PEC - Wichita

Location: Cheney Pump Station

Specification/Drawing Reference: 26 05 19

Specification Description: Wire

Item Submitted: THHN Wire

<input type="checkbox"/>	Record Drawing
<input checked="" type="checkbox"/>	For Approval
<input type="checkbox"/>	Resubmitted for Approval
	For conformity with plans and specifications
Shelley Electric, Inc.	
Date	<u>10/19/20</u> By <u>JD</u>

<i>Notes & Clarifications:</i>
<i>Alternate manufacturers meeting specifications may be necessary to meet contract schedules.</i>

Stamp Area

600 Volts. Copper Conductor
Thermoplastic Insulation/ SIM Nylon Sheath
Heat, Moisture, Gasoline, and Oil Resistant II
Also Rated MTW and THWN-2
SIM Technology® for Easier Pulling



APPLICATIONS

Southwire SIMpull THHN or THWN-2 conductors are primarily used in conduit and cable trays for services, feeders, and branch circuits in commercial or industrial applications as specified in the National Electrical Code. Voltage for all applications is 600 volts. SIMpull THHN conductors are designed to be used without application of pulling lubricant. Allowable temperatures are as follows:

- THHN or T90 Nylon- Dry locations not to exceed 90° C
- THWN-2- Wet or dry locations not to exceed 90° C or locations not to exceed 75° C when exposed to oil
- TWN75- Wet locations not to exceed 75° C
- MTW- Wet locations or when exposed to oil at temperatures not to exceed 60° C or dry locations not to exceed 90° C (with ampacity limited to that for 75° C conductor temperature per NFPA 79)
- AWM- Dry locations not to exceed 105° C when rated and used as appliance wiring material

SPECIFICATIONS

Southwire SIMpull THHN® or THWN-2 or MTW (also AWM) comply with:

- ASTM - B3, B8 (7,19, 37, 61 Strands), B 787 (19 Wire Combination Unilay Strand)
- UL Standard 83, 1581, and 1063(MTW)
- T90 Nylon/TWN75 sizes through 1000 kcmil CSA C22.2 No. 75
- NOM-ANCE 90° C • Federal Specification A-A-59544
- National Electrical Code, NFPA 70 • VW-1 - Sizes 14 through 1 AWG
- CT rated in sizes 1/0 AWG and larger
- FT1
- AWM - Sizes 14 through 6 AWG. MTW available in stranded only
- NEMA WC-70 Construction Requirements
- RoHS/REACH Compliant

Construction

Southwire SIMpull THHN or THWN-2 or MTW copper conductors are soft annealed copper. #14 - 4/0 AWG uses a combination unilay strand and 250 kcmil and larger uses a compressed copper strand. The wire is insulated with a tough heat and moisture resistant poly vinyl chloride (PVC), over which a SIM (SLIKQWIK® Infused Membrane) nylon (polyamide) or UL Recognized equal jacket is applied. Available in black, white, red, blue, purple, green, yellow, orange, brown and gray. Some colors are subject to economic order quantity. Marked sunlight resistant in sizes 2 AWG and larger.

THWN-2 available in sizes 8 AWG and larger .

Sizes 14 - 10 AWG are available with SIMpull Technology only in SIMpull Barrel or CoilPAK configurations.



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SIMPull THHN

Conductor		Insulation Thickness (mils)	Jacket Thickness (mils)	Nominal O.D. (mils)	Approx. Weight per 1000' (lbs)	Allowable Ampacities+			Standard Package
Size (AWG or kcmil)	Number of Strands					60° C	75° C	90° C	
14*	1	15	4	102	15	15	15	AC	
12*	1	15	4	119	23	20	20	AC	
10*	1	20	4	150	36	30	30	AC	
14*	19	15	4	109	16	15	15	AC	
12*	19	15	4	128	24	20	20	AC	
10*	19	20	4	161	38	30	30	AC	
8	19	30	5	213	63	40	50	ABCD	
6	19	30	5	249	95	55	65	ABCD	
4	19	40	6	318	152	70	85	ABCD	
3	19	40	6	346	189	85	100	ABCD	
2	19	40	6	378	234	95	115	ABCD	
1	19	50	7	435	299	110	130	ABCD	
1/0	19	50	7	474	372	125	150	ABCD	
2/0	19	50	7	518	462	145	175	ABCD	
3/0	19	50	7	568	575	165	200	ABCD	
4/0	19	50	7	624	718	195	230	ABCD	
250	37	60	8	694	851	215	255	ABCD	
300	37	60	8	747	1012	240	285	ABC	
350	37	60	8	797	1174	260	310	ABC	
400	37	60	8	842	1334	280	335	ABC	
500	37	60	8	926	1655	320	380	ABCD	
600	61	70	9	1024	1987	350	420	ABC	
750	61	70	9	1126	2464	400	475	BC	
1000	61	70	9	1275	3257	455	545	C	
* Sizes 14 - 10 AWG available with patented Sim Technology® No Lube® jacket only in SIMpull® Wire Barrel or CoilPAK configurations. +Allowable ampacities shown are for general use as specified by the 2011 Edition								Standard Package: A - 2500' Reel B - 1000' Reel	



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SIMpull THHN

<p>of the National Electrical Code Section 310.15 and 240.4(D). Unless the equipment is marked for use at higher temperatures the conductor shall be limited to the following per NEC 110.14(C).</p> <p>60° C - When terminated to equipment for circuits rated 100 amperes or less or marked for 14 - 1 AWG conductors.</p> <p>75° C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.</p> <p>90° C - THHN dry locations and THWN wet or dry locations for ampacity adjustment purposes using NEC section 310.15.</p>	<p>C - 500' Spool D - 5000' Reel</p>
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