

SHOP DRAWING REVIEW FORM AND TRANSMITTAL

DATE: **October 15, 2021**

TO: Carl Hendrickson
 Project Manager
 Veolia Water
 825 West Water Street
 Taunton, MA 02780

FROM: Michael Andrus, P.E.
 Project Manager
 BETA Group, Inc.
 701 George Washington Hwy
 Lincoln, Rhode Island 02865

RE: City of Taunton, MA
 WWTF Phase 1 Improvements
 Contract S-2021-1

Shop Drawing No. 02627-01 REV 0 – Underground PVC Pipe

BETA COMMENTS:

<u>Item</u>	<u>Action Code</u>	<u>Description/Comments</u>
1	1	Underground PVC Pipe (Spears) 1. Acceptable as submitted.

Action Codes

- 1 - No Exception Taken
- 2 - Make Corrections Noted
- 3 - Amend and Resubmit
- 4 - Rejected, See Remarks
- 5 - Record File Only

- a. Installation shall proceed only when Action Code is '1' or '2'.
- b. Submittals action coded '3' shall be resubmitted within time limit set in Contract.
- c. Review does not relieve Contractor from responsibility of compliance with the Contract Documents.



Hart Engineering Corporation

SUBMITTAL:
02627-01

PROJECT: 9900. - Veolia/Taunton WWTF Phase 1 Improvements

DATE: 10/12/2021

SUBMITTAL: 02627-01 - Underground PVC Pipe

REVISION: 0

STATUS: Eng

SPEC #: 02627

TO:
Michael Andrus
Beta Group Inc.
6 Blackstone Place
Lincoln, RI 02865
MAndrus@BETA-Inc.com

FROM:
Ryan Murphy
Hart Engineering Corporation
800 Scenic View Drive
Cumberland, RI 02864
rmurphy@hartcompanies.com

Item	Revision	Description	Status	Date Sent	Date Returned
02627-01	0	Underground PVC Pipe	Eng	10/12/2021	
Notes:					

Additional Notes:

Status Codes

- 1-APP – No Exceptions Taken
- 2-ANR – Make Corrections Noted
- 3-R&R – Revise and Resubmit
- 4-REJ – Rejected
- 5-IPO – For Information Purposes Only
- 6-NRR – Not Required for Review
- ENG – Submitted to Engineer

Sincerely,
Hart Engineering Corporation

SHOP DRAWING REVIEW	
<input checked="" type="checkbox"/> 1 – Approved	<input type="checkbox"/> 2 – Approved as Noted
<input type="checkbox"/> 3 – Revise and Resubmit	<input type="checkbox"/> 4 – Rejected
<input type="checkbox"/> 5 – Record File Only – No Action Taken	
(Above Check Designates Action Code – See Review Comments)	
IMPORTANT NOTE FOR CONTRACTOR	
Review is only for general compliance with the design concept and information provided in Contract Documents. Corrections and comments made on the Shop Drawings during review do not relieve the Contractor from compliance with the requirements of the plans and specifications. Review and/or approval of a specific item shall not include review or approval of an assembly of which the item is a component. No approval or correction of a Shop Drawing shall be construed as an order for extra work. The Contractor is responsible for: all quantities and dimensions to be confirmed and correlated; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all trades and subcontractors; and performing all Work in a safe and satisfactory manner.	
BETA GROUP, INC.	Checked By: <u>BM</u>
By: <u>Mike Andrus</u>	Date: <u>10/15/2021</u>

DATE: 10/12/2021



Schedule 80 PVC Product
PVC Schedule 80 Fittings

Couplings

Part Number	Size	Gasket to Gasket - L1	Std Pk	Mstr Ctn	Prod Code
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Part Number	Size	Std Pk	Mstr Ctn	Prod Code
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Coupling - Reducer

Socket x Socket

829-101	3/4X1/2	50	400	080
829-130	1X1/2	25	200	080
829-131	1X3/4	25	200	080
829-166	1-1/4X1/2	25	0	080
829-167	1-1/4X3/4	25	0	080
829-168	1-1/4X1	25	0	080
829-209	1-1/2X1/2	25	0	080
829-210	1-1/2X3/4	25	0	080
829-211	1-1/2X1	25	0	080
829-212	1-1/2X1-1/4	25	0	080
829-247	2X1/2	25	0	080
829-248	2X3/4	10	80	080
829-249	2X1	25	0	080
829-250	2X1-1/4	10	40	080
829-251	2X1-1/2	10	40	080
829-290 ¹	2-1/2X1-1/4	10	0	080
829-291	2-1/2X1-1/2	10	0	080
829-292	2-1/2X2	10	0	080
829-335 ¹	3X1	8	0	080
829-336 ¹	3X1-1/4	6	0	080
829-337 ¹	3X1-1/2	8	0	080
829-338	3X2	10	0	080
829-339	3X2-1/2	10	0	080
829-339F	3X2-1/2	1	9	083
829-416 ¹	4X3/4	6	0	080
829-417 ¹	4X1	6	0	080
829-419 ¹	4X1-1/2	6	0	080
829-420	4X2	6	0	080
829-421	4X2-1/2	4	0	080
829-422	4X3	4	0	080
829-460F	4-1/2X4	1	20	083
829-487F	5X2-1/2	1	6	083
829-488F	5X3	1	6	083
829-490F	5X4	1	8	083
829-491F	5X4-1/2	1	10	083
829-528 ¹	6X2	6	0	080
829-529 ¹	6X2-1/2	4	0	080
829-530 ¹	6X3	12	0	080
829-530F	6X3	1	10	083
829-532	6X4	4	0	080
829-534F	6X4-1/2	1	5	083
829-533F	6X5	1	5	083
829-579F	8X2-1/2	1	6	083
829-580F	8X3	1	6	083
829-582	8X4	2	0	080
829-582F	8X4	1	6	083
829-583F	8X5	1	4	083
829-585	8X6	2	0	080
829-621F	10X2	1	2	083
829-623F	10X3	1	2	083

Repair Coupling- Fabricated

Gasket x Gasket

828-020F	2	6	1	15	083
828-030F	3	11- 3/4	1	10	083
828-040F	4	15	1	4	083
828-060F	6	18-1/4	1	2	083
828-080F	8	19	1	2	083
828-100F	10	21-1/4	1	0	083
828-120F	12	21-3/8	1	0	083
828-140F	14	21	1	0	083
828-160F	16	22-1/4	1	0	083
828-180F	18	19-7/8	1	0	083
828-200F	20	23-1/2	1	0	083
828-240F	24	23-1/2	1	0	083

Part Number	Size	Std Pk	Mstr Ctn	Prod Code
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Coupling

Socket x Socket

829-002	1/4	25	450	080
829-003	3/8	25	150	080
829-005	1/2	25	150	080
829-007	3/4	25	300	080
829-010	1	25	200	080
829-012	1-1/4	10	60	080
829-015	1-1/2	10	80	080
829-020	2	20	0	080
829-025	2-1/2	10	0	080
829-030	3	5	0	080
829-040	4	5	0	080
829-050	5	5	0	080
829-050F	5	1	5	083
829-060	6	4	0	080
829-080	8	4	0	080
829-100	10	1	0	081
829-100F	10	1	0	083
829-120	12	1	0	081
829-120F	12	1	0	083
829-140	14	1	0	082
829-140F	14	1	0	083
829-160F	16	1	0	083
829-180F	18	1	0	083
829-200F	20	1	0	083
829-240F	24	1	0	083

Schedule 80 PVC Product
PVC Industrial Pipe



PVC Schedule 80 Industrial Pipe

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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Pipe - PVC Schedule 80 Plain End

10' Lengths, Price Per Foot



PD-800-001-10	1/8	250	0	744	2.18
PD-800-002-10	1/4	570	0	744	3.25
PD-800-003-10	3/8	570	0	744	4.52
PD-800-005-10	1/2	10	0	744	1.36
PD-800-007-10	3/4	10	0	744	1.84
PD-800-010-10	1	10	0	744	2.71
PD-800-012-10	1-1/4	10	0	744	3.74
PD-800-015-10	1-1/2	10	0	744	4.23
PD-800-020-10	2	10	0	744	5.86
PD-800-025-10	2-1/2	10	0	744	9.88
PD-800-030-10	3	10	0	744	11.99
PD-800-040-10	4	10	0	744	17.54
PD-800-060-10	6	10	0	744	33.49
PD-800-080-10	8	10	0	744	50.80
PD-800-100-10	10	10	0	744	75.38
PD-800-120-10	12	10	0	744	103.63
PD-800-140-10	14	10	0	944	51.39
PD-800-160-10	16	10	0	944	66.75
PD-800-180-10	18	10	0	944	77.40
PD-800-200-10	20	10	0	944	102.79
PD-800-240-10	24	10	0	944	173.00

PVC Schedule 80 Plain End

20' Lengths, Price Per Foot



PD-800-001	1/8	1140	0	744	2.18
PD-800-002	1/4	1140	0	744	3.25
PD-800-003	3/8	500	0	744	4.52
PD-800-005	1/2	20	0	744	1.36
PD-800-007	3/4	20	0	744	1.84
PD-800-010	1	20	0	744	2.71
PD-800-012	1-1/4	20	0	744	3.74
PD-800-015	1-1/2	20	0	744	4.23
PD-800-020	2	20	0	744	5.86
PD-800-025	2-1/2	20	0	744	9.88
PD-800-030	3	20	0	744	11.99
PD-800-040	4	20	0	744	17.54
PD-800-050	5	20	0	744	24.07
PD-800-060	6	20	0	744	33.49
PD-800-080	8	20	0	744	50.80
PD-800-100	10	20	0	744	75.38
PD-800-120	12	20	0	744	103.63
PD-800-140	14	20	0	944	51.39
PD-800-160	16	20	0	944	66.75
PD-800-180	18	20	0	944	77.40
PD-800-200	20	20	0	944	102.79
PD-800-240	24	20	0	944	173.00

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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PVC Schedule 80 Plain End (continued)
20' Lengths, Price Per Foot

- Pipe sold in individual lengths or lift quantities. No cut lengths.
- No return on Pipe
- Large orders may be shipped directly from Spears® Manufacturing facility. Note: Multiple drops may be made on TL shipments. Contact Spears® Regional Distribution Center for requirements and drop-off charges.
- See Spears® Manufacturing Company Terms and Conditions of Sale for freight requirements.

ASTM D-1784 ASTM D-1785		Schedule 80 PVC Plain End Pipe				
Size	Max Work Pressure	Avg OD	Min Wall	10' Length Skid Quantity FT/Pieces	20' Length Skid Quantity FT/Pieces	Weight Per FT
1/8"	1230	0.405	0.095	2850/285	5700/285	0.063
1/4"	1130	0.540	0.119	2850/285	5700/285	0.105
3/8"	920	0.675	0.126	2850/285	5700/285	0.146
1/2"	850	0.840	0.147	2430/243	4860/243	0.213
3/4"	690	1.050	0.154	1540/154	3080/154	0.289
1"	630	1.315	0.179	2520/252	5040/252	0.124
1-1/4"	520	1.660	0.191	1230/123	2460/123	0.586
1-1/2"	470	1.900	0.200	1720/172	3440/172	0.717
2"	400	2.375	0.218	1230/123	2460/123	0.984
2-1/2"	420	2.875	0.276	540/54	1080/54	1.500
3"	370	3.500	0.300	460/46	920/46	2.010
4"	320	4.500	0.337	340/34	680/34	2.938
6"	280	6.625	0.432	170/17	340/17	5.610
8"	250	8.625	0.500	90/9	180/9	8.522
10"	230	10.750	0.593	110/11	220/11	12.635
12"	230	12.750	0.687	80/8	160/8	17.384

PVC Clear Schedule 80 Pipe

Pipe - Clear PVC Schedule 80 Plain End

10' Lengths, Price Per Foot



PD-800-002L-10	1/4	1000	0	742	6.26
PD-800-003L-10	3/8	1100	0	742	8.06
PD-800-005L-10	1/2	420	0	742	2.91
PD-800-007L-10	3/4	360	0	742	3.93
PD-800-010L-10	1	360	0	742	5.77
PD-800-012L-10	1-1/4	360	0	742	7.96
PD-800-015L-10	1-1/2	160	0	742	9.67
PD-800-020L-10	2	160	0	742	13.38
PD-800-025L-10	2-1/2	40	0	742	20.39
PD-800-030L-10	3	40	0	742	27.34
PD-800-040L-10	4	40	0	742	39.96
PD-800-060L-10	6	10	0	742	76.33