



Memorandum

To: Terry Southard—Indian River County Utilities Department

From: Nick Black, P.E.


Date: June 4, 2021

Subject: Hobart RO WTP Bulk Chemical Tank Replacements
Payment Request No. 7
KHA Project No. 044572049
Bid #2020044

This document presents Application for Payment No. 7 from Lawrence Lee Construction Services, Inc. in the amount of \$19,450 for the period through May 31, 2021. We have reviewed the pay request and recommend payment of the attached invoice.

This presents the final payment application for this project. Included in this pay application are the release of liens, power of attorney, consent of surety and record drawings. Spare parts are at the Hobart WTP and the final punch list has been completed as of June 3, 2021.

Should you have any questions please do not hesitate to contact me directly at 561-421-1979.



NICK BLACK, P.E.
Kimley-Horn
6-4-2021

Attachments: Application for Payment No. 7

Copy to: Mark Miller, P.E., Bert King, E.I & File (w/ attachments)

K:\WPB_Civil\044572049 - Hobart Acid Tank Replacement\Construction\Pay Apps\7\Pay Request No. 7 mem.docx

Application & Certificate for Payment



To Owner:
 Indian River County Utilities
 1801 27th Street
 Vero Beach, FL 32960

From Contractor:
 Lawrence Lee Construction Services, Inc.
 50 NE Dixie Hwy. Suite A6
 Stuart, FL 34994-2172

Project:
 Hobart RO WTP
 Bulk Chemical Tank Replacements

Application #: 7
Period From: 05/01/21
Period To: 05/31/21

Engineer:
 Kimley-Horn & Associates
 1920 Wekiva Way, Suite 200
 West Palm Beach, FL 33411

Project #s:
 LLCs: 2040
 Owner: 2020044
 Engineer: 044572049

Contractor's Application for Payment

Application is made for payment, as shown below, in connection with the Contract. The Continuation Sheet & Stored Material Log is attached.

1. ORIGINAL CONTRACT SUM	\$ 389,000.00
2.e NET CHANGE BY CHANGE ORDERSe	\$ -
3. CONTRACT SUM TO DATE (Line 1 + Line 2)	\$ 389,000.00
4. TOTAL COMPLETED & STORAED TO DATE (Column G)	\$ 389,000.00
5. RETAINAGE	
a.e 0 % of Completed Worke (Column G + H)	\$ -
b.e 0 % of Stored Materiale (Column I)	\$ -
Total Retainage (Lines 5.a + 5.b, or Total in Column L)	\$ -
6.e TOTAL EARNED LESS RETAINAGEe (Line 4 - Line 5 Total)	\$ 389,000.00
7.e LESS PREVIOUS CERTIFICATES FOR PAYMENTe (Line 6 from prior Certificate)	\$ 369,550.00
8.e CURRENT PAYMENT DUEe	\$ 19,450.00
9.e BALANCE TO FINISH, INCLUDING RETAINAGEe (Line 3 - Line 6)	\$ -

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes App. in prev. months by Owner	\$ -	\$ -
Total Approved this month	\$ -	\$ -
TOTAL =	\$ -	\$ -
NET CHANGES by Change Order		

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now

due.e

Contractor: Geoffrey L. Schmidt, President
 Signature: [Signature] Date: 5/28/21

Notary: State of: Florida County of: Martin
 Subscribed and sworn to before me this 28th day of May, 2021
 Signature: [Signature] Date: 5/28/21
 Expires: 04/04/23



Engineer's Certificate for Payment

I, the undersigned, in accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Engineer's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT RECOMMENDED.

AMOUNTED RECOMMENDED: 19,450.00

Signature: [Signature] Nick Grace, P.E.
Kimley-Horn Date: 6-4-21

Owner Signature: _____ **Date:** _____



A	B	C	D	E	F	G	H	I	J	K	L	
Item #	Description of Work	Value	QTY	Unit	Scheduled Value	Worked Completed		Materials Presently Stored To Date <i>(Not in G or H)</i>	Total Completed & Stored To Date <i>(G+H+I)</i>	% Total Complete <i>(J/F)</i>	Balance To Finish <i>(F-J)</i>	Retention 0.0% <i>(I/K)</i>
						From Previous Application	This Period					
1	Mobilization, De-mobilization & Planning											
1	MOB	\$ 15,000.00	1	LS	\$ 15,000.00	\$ 15,000.00	\$ -	\$ -	\$ 15,000.00	100.0%	\$ -	\$ -
2	DEMOB	\$ 5,000.00	1	LS	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -	\$ 5,000.00	100.0%	\$ -	\$ -
3	Sub-Totals =	\$ 20,000.00			\$ 20,000.00	\$ 20,000.00	\$ -	\$ -	\$ 20,000.00	100.0%	\$ -	\$ -
2	Bonds & Insurance											
1	Bonds & Insurance	\$ 15,000.00	1	LS	\$ 15,000.00	\$ 15,000.00	\$ -	\$ -	\$ 15,000.00	100.0%	\$ -	\$ -
2	Sub-Totals =	\$ 15,000.00			\$ 15,000.00	\$ 15,000.00	\$ -	\$ -	\$ 15,000.00	100.0%	\$ -	\$ -
3	Demolition											
1	Sulfuric Acid Tank/System Demolition	\$ 24,000.00	1	LS	\$ 24,000.00	\$ 24,000.00	\$ -	\$ -	\$ 24,000.00	100.0%	\$ -	\$ -
2	Caustic Tank/System Demolition	\$ 16,000.00	1	LS	\$ 16,000.00	\$ 16,000.00	\$ -	\$ -	\$ 16,000.00	100.0%	\$ -	\$ -
3	Sub-Totals =	\$ 40,000.00			\$ 40,000.00	\$ 40,000.00	\$ -	\$ -	\$ 40,000.00	100.0%	\$ -	\$ -
4	Sulfuric Acid Tank Improvements											
1	Temporary System	\$ 2,500.00	1	LS	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -	\$ 2,500.00	100.0%	\$ -	\$ -
2	Tank Submittals/Engineering	\$ 10,000.00	1	LS	\$ 10,000.00	\$ 10,000.00	\$ -	\$ -	\$ 10,000.00	100.0%	\$ -	\$ -
3	Furnish & Install Tank	\$ 100,000.00	1	LS	\$ 100,000.00	\$ 100,000.00	\$ -	\$ -	\$ 100,000.00	100.0%	\$ -	\$ -
4	Piping	\$ 55,500.00	1	LS	\$ 55,500.00	\$ 55,500.00	\$ -	\$ -	\$ 55,500.00	100.0%	\$ -	\$ -
5	Painting	\$ 5,000.00	1	LS	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -	\$ 5,000.00	100.0%	\$ -	\$ -
6	Electrical	\$ 9,000.00	1	LS	\$ 9,000.00	\$ 9,000.00	\$ -	\$ -	\$ 9,000.00	100.0%	\$ -	\$ -
7	Sub-Totals =	\$ 182,000.00			\$ 182,000.00	\$ 182,000.00	\$ -	\$ -	\$ 182,000.00	100.0%	\$ -	\$ -
5	Caustic Tank Improvements											
1	Temporary System	\$ 2,500.00	1	LS	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -	\$ 2,500.00	100.0%	\$ -	\$ -
2	Tank Submittals/Engineering	\$ 8,000.00	1	LS	\$ 8,000.00	\$ 8,000.00	\$ -	\$ -	\$ 8,000.00	100.0%	\$ -	\$ -
3	Furnish & Install Tank	\$ 80,000.00	1	LS	\$ 80,000.00	\$ 80,000.00	\$ -	\$ -	\$ 80,000.00	100.0%	\$ -	\$ -
4	Piping	\$ 30,000.00	1	LS	\$ 30,000.00	\$ 30,000.00	\$ -	\$ -	\$ 30,000.00	100.0%	\$ -	\$ -
5	Painting	\$ 5,000.00	1	LS	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -	\$ 5,000.00	100.0%	\$ -	\$ -
6	Electrical	\$ 6,500.00	1	LS	\$ 6,500.00	\$ 6,500.00	\$ -	\$ -	\$ 6,500.00	100.0%	\$ -	\$ -
7	Sub-Totals =	\$ 132,000.00			\$ 132,000.00	\$ 132,000.00	\$ -	\$ -	\$ 132,000.00	100.0%	\$ -	\$ -
6	Change Orders											
1		\$ -	1	LS	\$ -	\$ -	\$ -	\$ -	\$ -	#DIV/0!	\$ -	\$ -
2	Sub-Totals =	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	#DIV/0!	\$ -	\$ -
Totals:		\$ 389,000.00			\$ 389,000.00	\$ 389,000.00	\$ -	\$ -	\$ 389,000.00	100.00%	\$ -	\$ -

CONSENT OF SURETY COMPANY TO FINAL PAYMENT

- OWNER
- ARCHITECT
- CONTRACTOR
- SURETY
- OTHER

AIA DOCUMENT G707

PROJECT: Hobart R.O. Water Treatment Plant Chemical Tanks Replacement
name, address) 7751 58th Ave.
Vero Beach, FL 32967

TO (Owner): [Indian River County Purchasing Division
1800 27th St.
Vero Beach, FL 32960]

ARCHITECT'S PROJECT NO:
CONTRACT FOR: Construction

BOND NO: 800097405
CONTRACT DATE: August 18th, 2020

CONTRACTOR: Lawrence Lee Construction Services, Inc.
[50 N.E. Dixie HWY, Suite A-6
Stuart, FL 34994]

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the here insert name and address of Surety Company

Atlantic Specialty Insurance Company
605 Highway 169 North, Suite 800
Plymouth, MN 55441

, SURETY COMPANY,

on bond of here insert name and address of Contractor)

Lawrence Lee Construction Services, Inc.
50 N.E. Dixie HWY, Suite A-6
Stuart, FL 34994

, CONTRACTOR,

hereby approves of the final payment to the Contractors, and agrees that final payment to the Contractor shall not relieve the Surety Company of any of its obligations to here insert name and address of Owner)

Indian River County Purchasing Division
1800 27th St.
Vero Beach, FL 32960

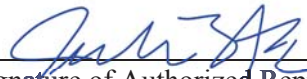
, OWNER,

as set forth in the said Surety Company's bond.

IN WITNESS WHEREOF,

the Surety Company has hereunto set its hand this 29th day of March, 2021.

Atlantic Specialty Insurance Company
Surety Company


Signature of Authorized Representative
Jorge L. Bracamonte, Attorney-in-Fact &
Florida Licensed Resident Agent



Title

Inquiries: (321) 800-6594

Attest: 
(Seal):

NOTE: This form is to be used as a companion document to AIA DOCUMENT G706, CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS, Current Edition



Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Jorge L. Bracamonte**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

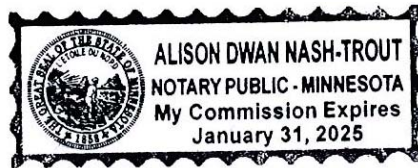
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this twenty-seventh day of April, 2020.


STATE OF MINNESOTA
HENNEPIN COUNTY



By 
Paul J. Brehm, Senior Vice President

On this twenty-seventh day of April, 2020, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.




Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 29th day of March, 2021.



This Power of Attorney expires
January 31, 2025


Kara Barrow, Secretary

STATUTORY WAIVER AND RELEASE OF

LIEN UPON FINAL PAYMENT

(SECTION 713.20(5) FLORIDA STATUTES)

The undersigned lienor, in consideration of the final payment in the amount of \$19,450.00 hereby waives and releases its lien and right to claim a lien for labor, services or materials furnished to Indian River County Utilities on the job of the Hobart RO WTP – Bulk Chemical Tank Replacements Project to the following described property:

Job Owner: Indian River County Utilities

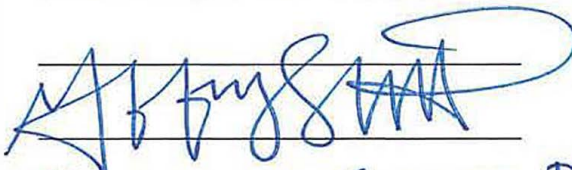
Job Name: Hobart RO WTP – Bulk Chemical Tank Replacements Project

Job Address: 7751 58th Ave, Vero Beach, FL 32967

Date: JUNE 4, 2021.

Lienor's Name: LAWRENCE LEE CONSTRUCTION SERVICES, INC.

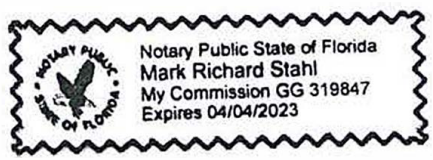
Address: 800 SE LINCOLN AVE.
STUART, FL 34994

Signature: 

Name & Title: GEOFFREY L. SCHMIDT, PRESIDENT



Notary: State of FLORIDA County of MARTIN



Subscribed and sworn to before me this 4 day of JUNE, 2021

Signature: 

Date: 06/04/2021
Expires: 04/04/2023

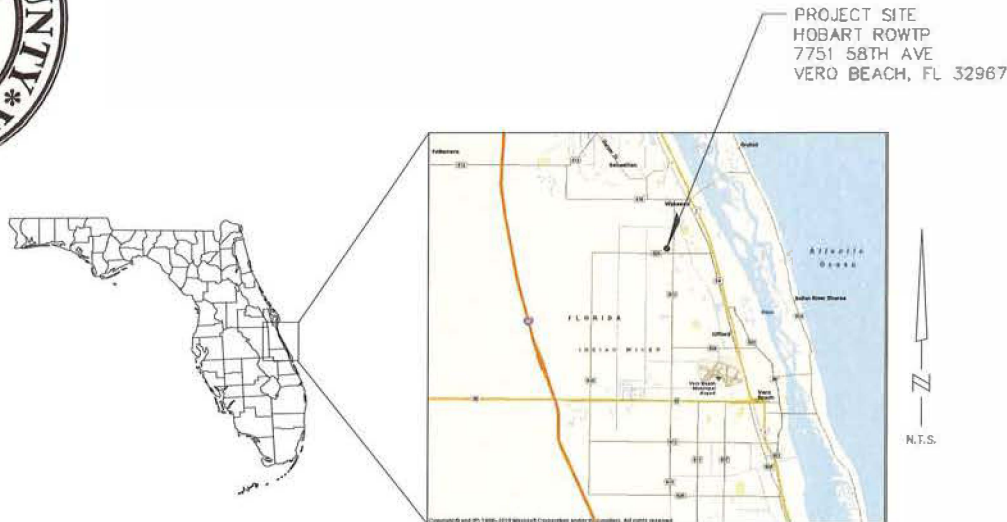
NOTE: This is a statutory form prescribed by Section 713.20, Florida Statutes. A person may not require a lienor to furnish a waiver or release of lien that is different from the statutory form.

CONSTRUCTION PLANS FOR HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT

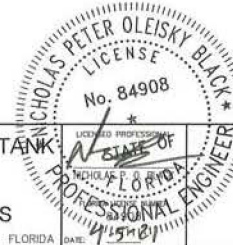
PREPARED FOR
INDIAN RIVER COUNTY UTILITIES
MAY 2020



INDEX OF SHEETS	
SHEET #	SHEET TITLE
G-1	COVER SHEET
MC-1	HOBART ROWTP SITE PLAN
MC-2	BULK SULFURIC ACID TANK DEMOLITION PLAN & SECTION
MC-3	SULFURIC ACID DEMOLITION PHOTOS (1)
MC-4	SULFURIC ACID DEMOLITION PHOTOS (2)
MC-5	PROPOSED PLAN & SECTION
MC-6	MECHANICAL DETAILS
MC-7	ZINC ORTHO & CAUSTIC BULK TANK DEMOLITION PLAN
MC-8	ZINC ORTHO & CAUSTIC BULK TANK DEMOLITION PHOTOS (1)
MC-9	CAUSTIC TANK-PROPOSED PLAN & SECTION
D-1	CONSTRUCTION DETAILS (1)



LOCATION MAP
N.T.S.



RECORD DRAWING
THIS DRAWING HAS BEEN REVIEWED TO SHOW THESE DIMENSIONS DURING THE CONSTRUCTION PROCESS. REVISIONS TO THIS DRAWING ARE THE RESPONSIBILITY OF THE CLIENT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE AVAILABLE INFORMATION.
DATE: 11/15/21 BY: Nick Black

RECORD DRAWINGS	DATE	BY
	2021.04.01	NPOB

Kimley»Horn
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEXIVA WAY SUITE 200, WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
044572049
DATE
MAY 2020
SCALE AS SHOWN
DESIGNED BY NPOB
DRAWN BY LFP
CHECKED BY MDN

HOBART ROWTP BULK CHEMICAL TANK
REPLACEMENT
PREPARED FOR
INDIAN RIVER COUNTY UTILITIES
INDIAN RIVER COUNTY FLORIDA

DATE: 11/15/21

COVER SHEET

SHEET NUMBER
G-1



- GENERAL NOTES**
- MC-1.1 CONTRACTOR SHALL REFER TO THE SUMMARY OF WORK DESCRIPTION WITHIN THE TECHNICAL SPECIFICATIONS FOR REQUIREMENTS REGARDING TEMPORARY CHEMICAL STORAGE DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
 - MC-1.2 CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO REPLACING EXISTING TANKS AND ADJUSTMENTS AS DESCRIBED IN THE PLANS.
 - MC-1.3 CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF THE EXISTING BULK STORAGE TANKS, PIPING, AND ALL OTHER ITEMS REQUIRED TO BE DEMOLISHED/REMOVED INCLUDING ALL MATERIAL ACCUMULATED WITHIN THE EXISTING TANKS. 1
 - MC-1.4 CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF ANY AND ALL MATERIAL ACCUMULATED DURING THE USE OF THE TEMPORARY STORAGE AND FEED SYSTEM.
 - MC-1.5 CONTRACTOR SHALL COORDINATE EQUIPMENT STORAGE AND LAYDOWN AREA W/ OWNER. CONTRACTOR SHALL NOT IMPERE OPERATIONS OR CHEMICAL DELIVERIES ESSENTIAL TO WTP OPERATION.

SUGGESTED EQUIPMENT STORAGE AND LAYDOWN AREA. SEE NOTE MC-1.5

REPLACE EXISTING 16,000 GALLON HORIZONTAL STEEL H₂SO₄ BULK STORAGE TANK. REFER TO SHEETS MC-2 THROUGH MC-6 FOR DETAILS

EXISTING BULK LIME SLURRY STORAGE AND FEED SYSTEM

EXISTING BULK LIQUID CO₂ STORAGE TANK

DEMOLISH EXISTING Zn₂(PO₄)₂ BULK STORAGE TANK. REPLACE EXISTING 5,200 GALLON HORIZONTAL STEEL NaOH BULK STORAGE TANK. REFER TO SHEETS MC-7 THROUGH MC-9 FOR DETAILS

EXISTING H₂SO₄ FEED PUMP BUILDING

NaOCl BUILDING

POST-TREATMENT AND OFF-GAS

EAST CLEARWELL

WEST CLEARWELL

ACCESS DRIVE

EXISTING VERTICAL POLY DUAL WALL CHEMICAL STORAGE TANK. SEE NOTE MC-1.1 ON THIS SHEET

PROCESS BUILDING

EXISTING CHEMICAL DAY TANK STORAGE AND FEED ROOMS

EXISTING BULK DIESEL FUEL STORAGE TANK

EXISTING MAIN LIFT STATION

HOBART WTP ACCESS GATE

ACCESS DRIVE

HIGH SERVICE PUMP BUILDING

SUGGESTED EQUIPMENT STORAGE AND LAYDOWN AREA. SEE NOTE MC-1.5

3MG GROUND STORAGE TANK NO. 1

3MG GROUND STORAGE TANK NO. 2

SCALE: 1" = 30' (24X36 SHEET SIZE)
SCALE: 1" = 60' (11X17 SHEET SIZE)



RECORD DRAWING
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE AVAILABLE INFORMATION.
DATE: 4-2-21 BY: *Nick Black*

No.	REVISIONS	DATE	BY
1	RECORD DRAWINGS	2021.04.01	NPOB

Kimley-Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411
PHONE: 561-845-0955 FAX: 561-393-8173
WWW.KIMLEY-HORN.COM CA 00000596

IGA PROJECT 044572049
DATE MAY 2020
SCALE AS SHOWN
DESIGNED BY NPOB
DRAWN BY LPP
CHECKED BY NCM

HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT
PREPARED FOR
INDIAN RIVER COUNTY UTILITIES
INDIAN RIVER COUNTY FLORIDA

HOBART ROWTP SITE PLAN

DATE: 4/2/21 BY: *Nick Black*

SHEET NUMBER **MC-1**

Kimley-Horn, Burnett, Smith, Anderson, McGill, Brown, Green, Gilbert, Grubbs, Hillier, Johnson, Mirmiran, Pataky, Peterson, Reyes, Saiz, Santolucito, Wright, and Wood, Inc. is the registered professional engineering firm responsible for the design, preparation, and issuance of this drawing. The design and preparation of this drawing were performed by the design professional named on the drawing. The design professional is not responsible for any errors or omissions in this drawing. The design professional is not responsible for any construction activities or safety issues related to this drawing. The design professional is not responsible for any environmental or regulatory issues related to this drawing. The design professional is not responsible for any other activities or issues related to this drawing.



PHOTO #5
N.T.S.

DEMOLISH TANK, PIPING, AND APPURTENANCES
 EXISTING HANDRAIL TO REMAIN
 EXISTING EMERGENCY EYESHOWER TO REMAIN
 CONNECT NEW HALAR/HDPE PIPING TO EXIST SIGHT-GLASS OVERFLOW PIPING.



PHOTO #6
N.T.S.

- GENERAL NOTES:**
- MC-4.1 CONTRACTOR SHALL REFER TO THE SUMMARY OF WORK OBSERVATION WITHIN THE TECHNICAL SPECIFICATIONS FOR REQUIREMENTS REGARDING TEMPORARY STORAGE AND STORAGE DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
 - MC-4.2 CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO REPLACING EXISTING TANK AND APPURTENANCES AS DESCRIBED BY THE PLANS.
 - MC-4.3 CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF THE EXISTING BULK STORAGE TANK, PIPING, AND ALL OTHER ITEMS REQUIRED TO BE DEMOLISHED/REMOVED INCLUDING ALL MATERIAL ACCUMULATED WITHIN THE EXISTING TANK. COORDINATE DRAINING OF TANK WITH BODJ OPERATIONS.
 - MC-4.4 CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF ANY AND ALL MATERIAL ACCUMULATED DURING THE USE OF THE TEMPORARY STORAGE AND FEED SYSTEM.
 - MC-4.5 EXISTING SECONDARY CONTAINMENT TO BE PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR ALL SECONDARY CONTAINMENT AREA BOATWAS IMPACTED BY DEMOLITION AND CONSTRUCTION ACTIVITIES.

EXISTING FILL SUPPORT TO BE MOORED, INSTALL 1-1/2" x 8" x 16" UPEMUT ON EXISTING SUPPORT TO ELEVATE FILL CONNECTION. SEE DETAIL 7A/D-1

DEMOLISH EXISTING FILL PIPING AND SUPPORTS

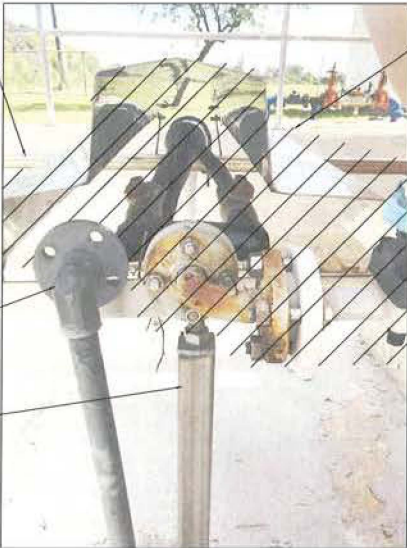


PHOTO #7
N.T.S.

REMOVE AND REINSTALL PIPE SUPPORT AS NECESSARY
 EXISTING 1" SCH. 80 DPE PIPING FROM VERTICAL POLY STORAGE TANK. SEE NOTE MC-4.1
 REMOVE AND REINSTALL PIPE SUPPORT AS NECESSARY

EXISTING PIPE, VALVING, AND SHIELD TO BE DEMOLISHED. SEE SHEET MC-5 AND MC-6 FOR REPLACEMENT DETAILS

RE-USE EXISTING SUPPORT FOR NEW 6" OVERFLOW PIPING



PHOTO #8
N.T.S.

DEMOLISH EXISTING 16,000 GAL TANK
 REMOVE AND REINSTALL PIPE SUPPORT AS NECESSARY
 MODIFY CONTAINMENT PIPE, RE-ROUTE OVER CONTAINMENT WALL. SEE SHEET MC-5 AND MC-6 FOR DETAILS.



RECORD DRAWING
 THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE AVAILABLE INFORMATION.
 DATE: 11/5/21 BY: Alice Brown

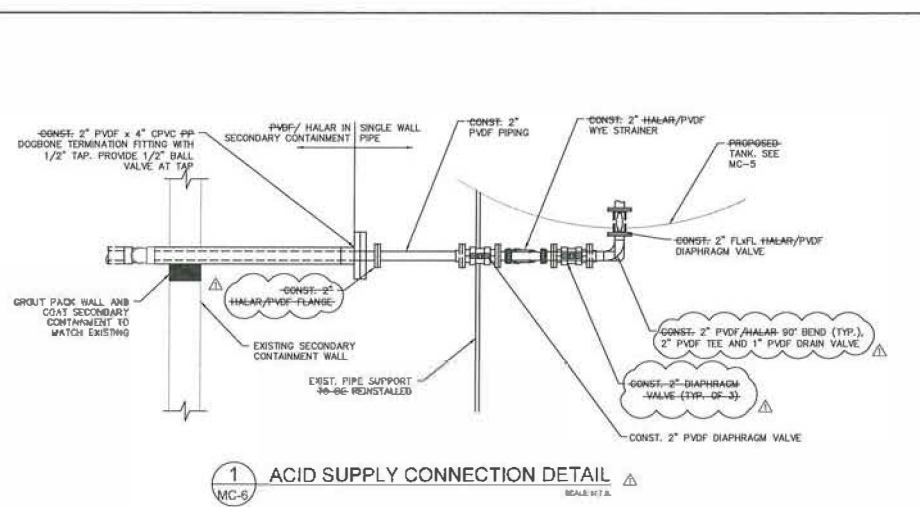
NO.	REVISIONS	DATE	BY
1	RECORD DRAWINGS	2021.04.01	NPOB

Kimley-Horn
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 PHONE: 561-845-0665 FAX: 561-863-8175
 WWW.KIMLEY-HORN.COM CA 00000596

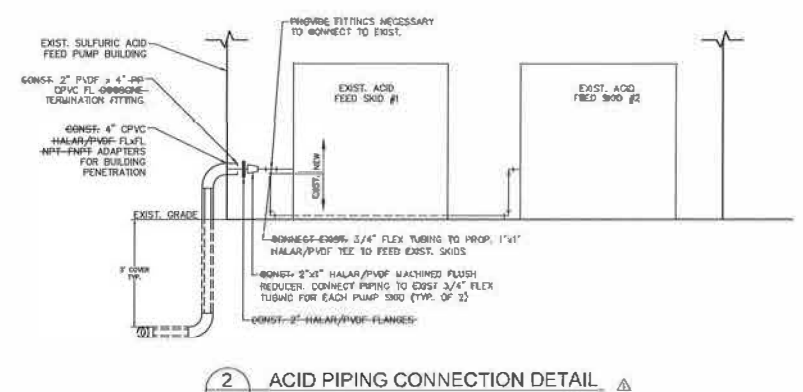
KHA PROJECT 044572049
 DATE MAY 2020
 SCALE AS SHOWN
 DESIGNED BY NPOB
 DRAWN BY LPP
 CHECKED BY MDM
HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT
 PREPARED FOR INDIAN RIVER COUNTY UTILITIES
 INDIAN RIVER COUNTY FLORIDA

STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 NICHOLAS P. OLESKY
 License No. 84908
 DATE: 11/5/21 BY: Alice Brown
SULFURIC ACID DEMOLITION PHOTOS (2)
 SHEET NUMBER MC-4

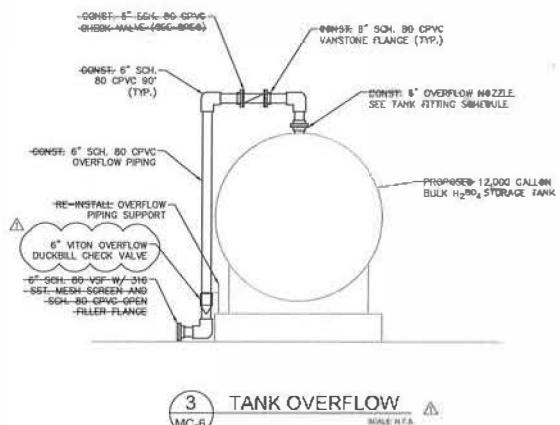
SHEET: MECHANICAL DETAILS - ACID SUPPLY CONNECTIONS AND OVERFLOW - HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT - INDIAN RIVER COUNTY UTILITIES
 PROJECT: HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT - INDIAN RIVER COUNTY UTILITIES
 DATE: 05/20/2021
 DRAWN BY: LPR
 CHECKED BY: LWD
 DESIGNED BY: NPOB
 SCALE: AS SHOWN
 DATE: MAY 2020
 PROJECT: 044572349
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1 ACID SUPPLY CONNECTION DETAIL
MC-6 SCALE: 1/2" = 1'-0"



2 ACID PIPING CONNECTION DETAIL
MC-6 SCALE: 1/2" = 1'-0"



3 TANK OVERFLOW
MC-6 SCALE: 1/2" = 1'-0"



RECORD DRAWING
 THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS. REPORTED TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE AS BUILT. BUT IS BASED ON THE AVAILABLE INFORMATION.
 DATE: 5/2/21
 MCA

No.	REVISIONS	DATE	BY
1	RECORD DRAWINGS	2021.04.01	NPOB



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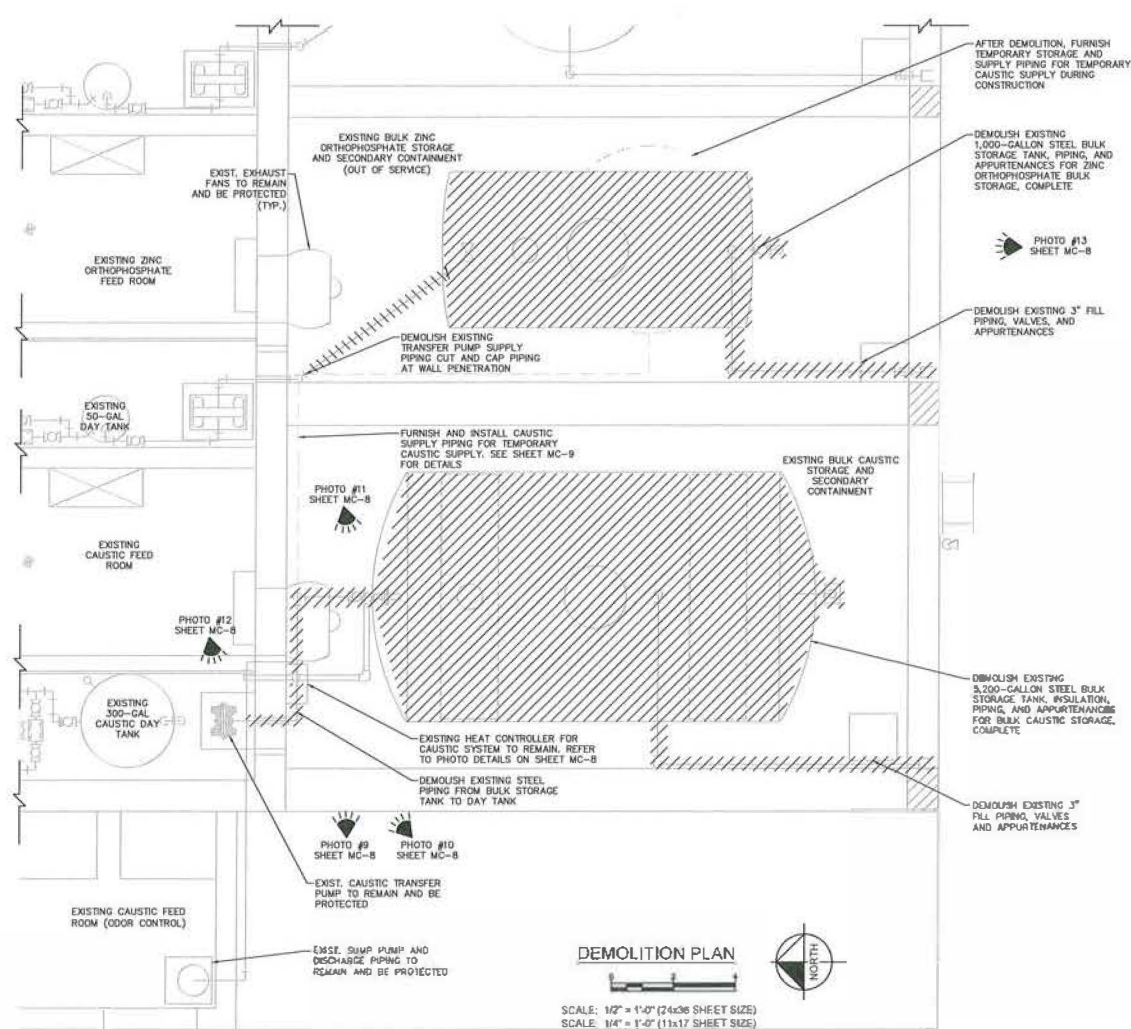
HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT
 PREPARED FOR
 INDIAN RIVER COUNTY UTILITIES
 INDIAN RIVER COUNTY
 FLORIDA

DATE: 4.5.21

MECHANICAL DETAILS

SHEET NUMBER
 MC-6

Kimley-Horn and Associates, Inc. 1920 W. Wickiwa Way Suite 200, West Palm Beach, FL 33411
 Project: HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT - ZINC ORTHO & CAUSTIC BULK TANK DEMOLITION PLAN - MC-7
 Date: 04/15/2021
 Scale: 1/4" = 1'-0" (11x17 SHEET SIZE)
 Drawing No: 2021-04-01-NPOB
 Designer: LPP
 Checker: MDH
 Date: 4/15/21



DEMOLITION PLAN
 SCALE: 1/2" = 1'-0" (74x96 SHEET SIZE)
 SCALE: 1/4" = 1'-0" (11x17 SHEET SIZE)

- GENERAL NOTES:**
- MC-7.1 CONTRACTOR SHALL REFER TO THE SUMMARY OF WORK DESCRIPTION WITHIN THE TECHNICAL SPECIFICATIONS FOR REQUIREMENTS REGARDING TEMPORARY H₂O₂ STORAGE DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
 - MC-7.2 CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO REPLACING EXISTING TANK AND APPURTENANCES AS DESCRIBED IN THE PLANS.
 - MC-7.3 CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF THE EXISTING BULK STORAGE TANK, PIPING, AND ALL OTHER ITEMS REQUIRED TO BE DEMOLISHED/REMOVED INCLUDING ALL MATERIAL ACCUMULATED WITHIN THE EXISTING TANK. COORDINATE DRAINING OF TANK WITH IROU OPERATIONS.
 - MC-7.4 CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF ANY AND ALL MATERIAL ACCUMULATED DURING THE USE OF THE TEMPORARY STORAGE AND FEED SYSTEM.
 - MC-7.5 EXISTING SECONDARY CONTAINMENT TO BE PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR ALL SECONDARY CONTAINMENT AREA COATINGS IMPACTED BY DEMOLITION AND CONSTRUCTION ACTIVITIES.
 - MC-7.6 REFER TO PHOTO DETAILS ON SHEET MC-8 FOR DEMOLITION DETAILS.
 - MC-7.7 CONTRACTOR SHALL COORDINATE WTP SHUTDOWNS WITH OWNER. WTP SHUTDOWN DURATION SHALL NOT EXCEED 4



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 DATE: 4.5.21 BY: *Max Brown*

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KHA PROJECT D44572049
 DATE MAY 2020
 SCALE AS SHOWN
 DESIGNED BY NPOB
 DRAWN BY LPP
 CHECKED BY MDH
HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT
 PREPARED FOR INDIAN RIVER COUNTY UTILITIES
 INDIAN RIVER COUNTY FLORIDA

ZINC ORTHO & CAUSTIC BULK TANK DEMOLITION PLAN

SHEET NUMBER
MC-7

Project: HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT - ZINC ORTHO & CAUSTIC BULK TANK DEMOLITION PHOTOS (1) - SHEET MC-8
 Date: 05/11/2021
 Drawing No: 2021-04-01-NP-08
 Scale: AS SHOWN
 Designer: NPOB
 Drafter: LPP
 Checker: NDM
 Project Location: INDIAN RIVER COUNTY, FLORIDA
 Client: INDIAN RIVER COUNTY UTILITIES
 Project No: 044572049
 Date: MAY 2020
 Scale: AS SHOWN
 Designed by: NPOB
 Drawn by: LPP
 Checked by: NDM
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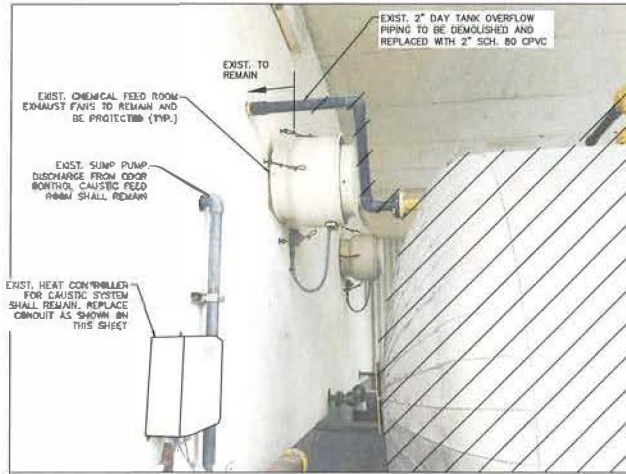


PHOTO #9
N.T.S.

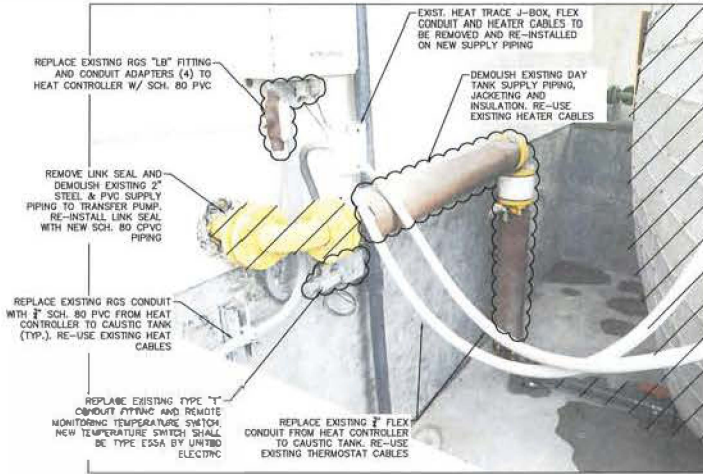


PHOTO #10
N.T.S.



PHOTO #11
N.T.S.

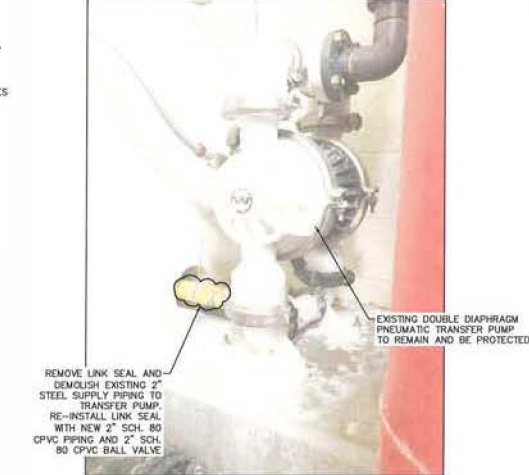


PHOTO #12
N.T.S.



PHOTO #13
N.T.S.

- GENERAL NOTES:**
- MC-B.1 CONTRACTOR SHALL REFER TO THE SUMMARY OF WORK DEMOLITION WITHIN THE TECHNICAL SPECIFICATIONS FOR REQUIREMENTS REGARDING TEMPORARY HAZARDOUS STORAGE DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
 - MC-B.2 CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO REPLACING EXISTING TANKS AND APPURTENANCES AS DESCRIBED BY THE PLANS.
 - MC-B.3 CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF THE EXISTING BULK STORAGE TANKS, PIPING, AND ALL OTHER ITEMS REQUIRED TO BE DEMOLISHED/REMOVED INCLUDING ALL MATERIAL ACCUMULATED WITHIN THE EXISTING TANKS. COORDINATE DRAWING OF TANKS WITH IROC OPERATIONS.
 - MC-B.4 CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF ANY AND ALL MATERIAL ACCUMULATED DURING THE USE OF THE TEMPORARY STORAGE AND FEED SYSTEM.
 - MC-B.5 EXISTING SECONDARY CONTAINMENT TO BE PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR ALL SECONDARY CONTAINMENT AREA LOCATIONS IMPACTED BY DEMOLITION AND CONSTRUCTION ACTIVITIES.

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 DATE: 4/5/21 MCK BOU



Kimley»Horn

KHA PROJECT
044572049
DATE
MAY 2020
SCALE AS SHOWN
DESIGNED BY NPOB
DRAWN BY LPP
CHECKED BY NDM

HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT
 PREPARED FOR
INDIAN RIVER COUNTY UTILITIES
 INDIAN RIVER COUNTY
 FLORIDA

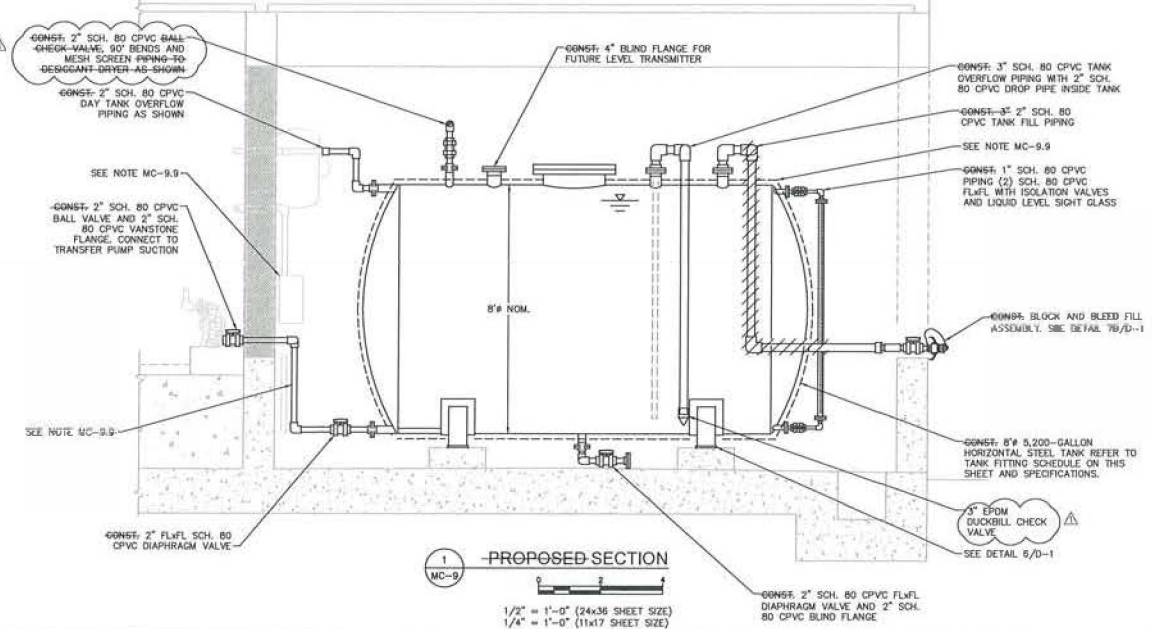
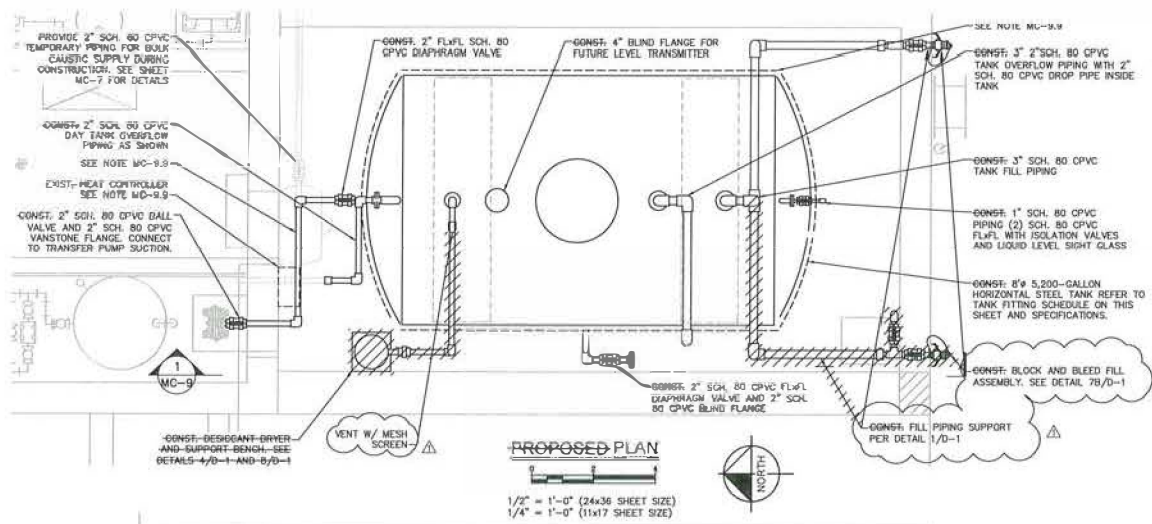
DATE

ZINC ORTHO & CAUSTIC BULK TANK DEMOLITION PHOTOS (1)

SHEET NUMBER
MC-8

NO.	REVISIONS	DATE	BY
1	RECORD DRAWINGS	2021.04.01	NPOB

DRAWING NO. MC-9, DATE 2021.04.01, PROJECT NO. 044572049, SHEET NO. 1 OF 1, SCALE AS SHOWN, DESIGNED BY NPOB, DRAWN BY LPP, CHECKED BY MOM, HOBTART ROWTP BULK CHEMICAL TANK REPLACEMENT, INDIAN RIVER COUNTY UTILITIES, FLORIDA.



5,200 GALLON HORIZONTAL STEEL 5% CAUSTIC STORAGE TANK - FITTING SCHEDULE

TANK FITTING	QUANTITY	SIZE	PIPE MATERIAL	LOCATION	NOTES
TANK FILL	1	3"	SCH. 80 CPVC	TOP OF SHELL	BLOCK AND BLEED FILL ASSEMBLY
LEVEL TRANSMITTER	1	4"	ISA	TOP OF SHELL	316 SET BOLT MATERIAL, EPDM GASKETS, SCH. 80 CPVC BLIND FLANGE FOR FUTURE LEVEL TRANSMITTER
LIQUID LEVEL SIGHT GLASS	2	1"	SCH. 80 CPVC	TOP AND BOTTOM OF SHELL	RIGHT INDICATOR WITH ISOLATION VALVE, EPDM GASKETS
VENT	1	2"	SCH. 80 CPVC	TOP OF SHELL	BALL CHECK VALVE, DUCTILE IRON
OVERFLOW	1	3"	SCH. 80 CPVC	TOP OF SHELL	316 SET BOLT MATERIAL, EPDM GASKETS, 2" SCH. 80 CPVC DROP PIPE INSIDE TANK
WALKWAY COVER	1	24"	ISA	TOP OF SHELL	BLIND FLANGE WITH 316 SET BOLT MATERIAL AND EPDM GASKETS
DRAIN	1	2"	SCH. 80 CPVC	BOTTOM OF SHELL	SCH. 80 CPVC PIPING W/ FLG. DIAPHRAGM VALVE, VANSTONE FLANGE AND BLIND FLANGE
FEED PUMP SUPPLY	1	2"	SCH. 80 CPVC	BOTTOM OF SHELL	316 SET BOLT MATERIAL, EPDM GASKETS, SCH. 80 CPVC DIAPHRAGM
DAY TANK OVERFLOW	1	2"	SCH. 80 CPVC	TOP OF SHELL	SOLVENT WELD SCH. 80 CPVC PIPING

- GENERAL NOTES:**
- MC-9.1 CONTRACTOR SHALL REFER TO THE SUMMARY OF WORK REQUIREMENTS REGARDING TEMPORARY MOISTURE STORAGE DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
 - MC-9.2 CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF THE EXISTING BULK STORAGE TANK, PIPING, AND ALL OTHER ITEMS REQUIRED TO BE REMOVED/REMOVED INCLUDING ALL MATERIAL ACCUMULATED WITHIN THE EXISTING TANK. COORDINATE DRAINING OF TANK WITH IRCU OPERATIONS.
 - MC-9.3 CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF ANY AND ALL MATERIAL ACCUMULATED DURING THE USE OF THE TEMPORARY STORAGE AND FEED SYSTEM.
 - MC-9.4 EXISTING SECONDARY CONTAINMENT TO BE PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR ALL SECONDARY CONTAINMENT AREA BOATINGS IMPACTED BY DEMOLITION AND CONSTRUCTION ACTIVITIES.
 - MC-9.5 ALL PROPOSED PIPING SHALL BE SUPPORTED AT 8' O.C. WHERE POSSIBLE. CONTRACTOR SHALL UTILIZE THE SAME SUPPORT FOR MULTIPLE PIPES PER DETAIL 2/D-1 AND 3/D-1.
 - MC-9.6 CONTRACTOR SHALL FURNISH AND INSTALL ALL REDUCERS, DUSHING AND FITTINGS NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
 - MC-9.7 ALL HARDWARE SHALL BE TYPE 316 STAINLESS STEEL, U.D.N.
 - MC-9.8 ALL PROPOSED FILL AND VALVE PIPING SHALL SOLVENT WELD SCH. 80 CPVC ALL VALVES AND FITTINGS ON FILL AND SUPPLY PIPING SHALL BE FLANGED OR SOLVENT WELD THREADED CONNECTIONS WILL NOT BE PERMITTED.
 - MC-9.9 PROPOSED TANK AND SUPPLY PIPING SHALL BE HEAT TRACED AND INSULATED. SEE SPECIFICATIONS AND SHEET MC-8 FOR DETAILS.



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 DATE: 12-21-21 BY: Nick Bana

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IRCU PROJECT
 044572049
 DATE
 MAY 2020
 SCALE AS SHOWN
 DESIGNED BY NPOB
 DRAWN BY LPP
 CHECKED BY MOM

HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT
 PREPARED FOR
INDIAN RIVER COUNTY UTILITIES
 INDIAN RIVER COUNTY FLORIDA

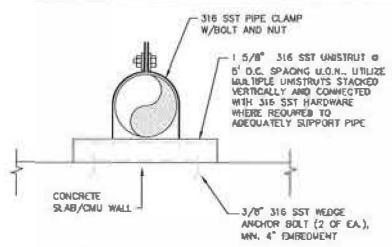
DATE: 4-5-21

5,200 GALLON HORIZONTAL STEEL 5% CAUSTIC TANK-PROPOSED PLAN & SECTION

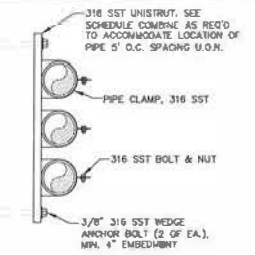
SHEET NUMBER
MC-9

RECORD DRAWINGS	REVISIONS	DATE	BY
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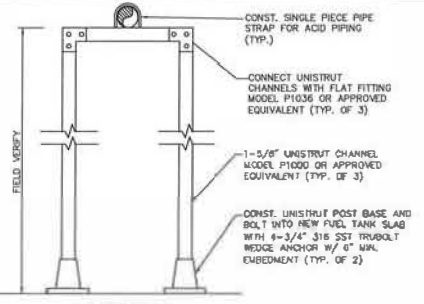
Project: HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT, LEGEND D-1 CONSTRUCTION DETAILS (1) SCALE: AS SHOWN
 Date: 05/21/2020
 Designer: LPP
 Checked: NIM
 Scale: AS SHOWN
 Project No: D-4572049
 Date: MAY 2020
 Scale: AS SHOWN
 Designed by: NPOB
 Drawn by: LPP
 Checked by: NIM
 Project Location: INDIAN RIVER COUNTY, FLORIDA
 Date: 4-5-21



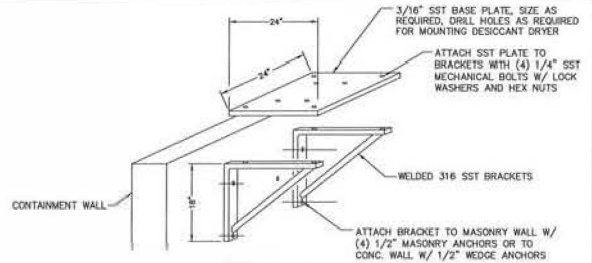
1 PIPE SUPPORT
D-1 SCALE: N.T.S.



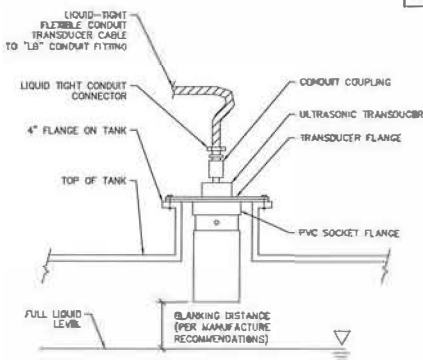
2 MULTIPLE PIPE SUPPORT
D-1 SCALE: N.T.S.



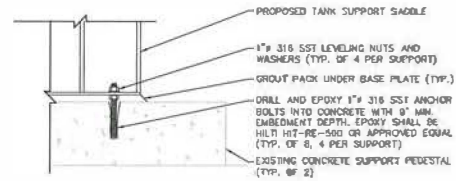
3 UNISTRUT PIPE/PUMP SUPPORT
D-1 SCALE: N.T.S.



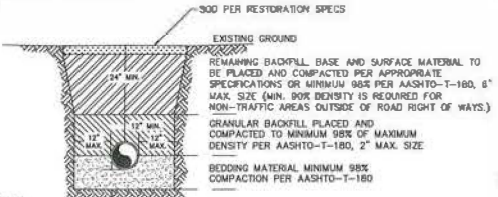
4 DRYER SUPPORT
D-1 SCALE: N.T.S.



5 ULTRASONIC LEVEL TRANSDUCER
D-1 SCALE: N.T.S.

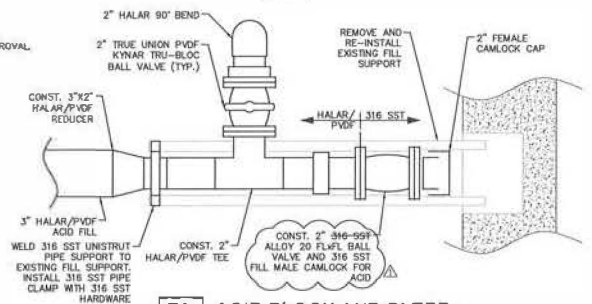


6 TANK ANCHOR BOLT
D-1 SCALE: N.T.S.

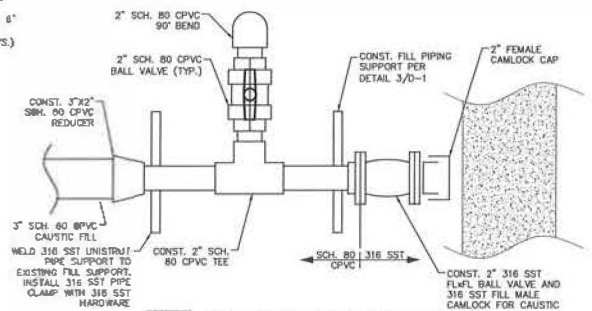


- NOTES:**
- BEDDING MATERIAL SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"-7/8" SIZING UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
 - THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
 - THE PIPE SHALL BE PLACED IN A DRY TRENCH.
 - BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGER ROCK, MUCK AND DEBRIS.
 - DENSITY TEST ARE REQUIRED IN ONE (1) FOOT LIFTS ABOVE PIPE AT INTERVALS OF 400 FT. MAXIMUM, OR AS DIRECTED BY S.I.D.
 - THE APPLICANT / CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL APPLICABLE TRENCH-SAFETY LAWS AND REGULATIONS.
 - THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT / CONTRACT DOCUMENTS.
 - MINIMUM COMPACTION CRITERIA SHALL BE NOTED HEREIN OR PER THE PIPE MANUFACTURERS RECOMMENDATIONS, WHICHEVER IS MORE STRINGENT.

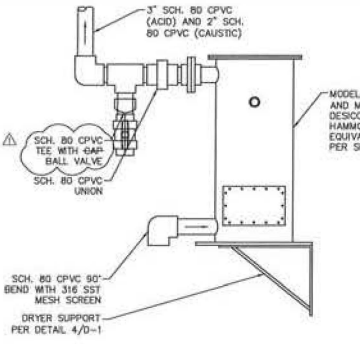
9 TYPICAL TRENCH DETAIL
D-1 SCALE: N.T.S.



7A ACID BLOCK AND BLEED
D-1 SCALE: N.T.S.



7B CAUSTIC BLOCK AND BLEED
D-1 SCALE: N.T.S.



8 DESICCANT DRYER
D-1 SCALE: N.T.S.

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 DATE: 9-5-21 BY: Mike Brou



Kimley»Horn

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HOBART ROWTP BULK CHEMICAL TANK REPLACEMENT
 PREPARED FOR
INDIAN RIVER COUNTY UTILITIES
 INDIAN RIVER COUNTY FLORIDA

CONSTRUCTION DETAILS (1)

SHEET NUMBER
D-1

No.	REVISIONS	DATE	BY
		2021.04.01	NPOB