2020377.05

ADDENDUM No. 1
March 7, 2023
to
BID DOCUMENTS dated 02/06/2023
for
CITY OF CANTON – SANITATION BUILDING PROJECT – GP 1376
2801 REGENT AVE. NE
CANTON, OH 44705

A. The original bidding documents for the above referenced project are hereby amended as noted in this Addendum.

B. This Addendum supersedes and takes precedence over information provided prior to the date of this Addendum.

RECEIVED QUESTIONS AND RESPONSES:

1. *Question: The bid form does not have a line to write in the base bid price. Please advise.*
   Response: The information to write the base bid price is on the very last page of the bid form.

2. *Question: Who pays for utility consumption?*
   Response: Owner will pay for utility consumption.

3. *Question: Who will be required to extend the gas line along Regent; Dominion or GC?*
   Response: The service line extension for the gas line is the responsibility of the contractor.

4. *Question: Who pays for testing?*
   Response: The Owner has engaged GPD Group for geotechnical engineering and construction material testing for the project. It will be the responsibility of the contractor to contact GPD Group for testing during construction. The Owner will pay for the testing.

5. *Question: The specifications on drawing C-132, Note E, state "THE INCOMING POWER SHALL BE 120/208 VOLTS, 3 PHASE 60 HERTZ." However, the pump schedule on drawing C-133, upper right-hand corner, states the voltage is 208 and single phase. Please advise which electrical properties are required for this project.*
   Response: Three phase.

6. *Question: Allow Simplex as fire alarm system manufacturer.*
   Response: This is acceptable.

7. *Question: Section 27 11 00 2.4C says 18" ladder rack and print T-103 says 12" ladder. What size?*
   Response: Provide 18" as called for in 27 11 00 2.4C. Note T7 on sheet T103 will be changed to 18" for the conformed document set.

8. *Question: Looking for information as to where the wall tile is in rooms 112 & 113? Is there an elevation?*
   Response: Information on tile location/extents can be found in the room finish schedule on I-601, and I-109. Installation pattern of the tile can be found in the material schedule on I-601.

9. *Question: What is the depth of the existing salt dome foundation to be demolished?*
   Response: See attached wall section of the largest salt dome showing a 3'-4" deep foundation. The other (2) salt dome foundation depths are unknown; but from a bidding standpoint assume 4'-0".

10. *Question: C131 has a note 213 where the new sanitary meets the existing line at Regent Ave. However, coded notes do not specify what note 213 is intended to mean.*
    Response: The keynote 215 is tagged at the connection of proposed sanitary to existing sanitary manhole. Keynote updated to see proposed profile on Sheet C-131 for connection information.

11. *Question: The proposed gravel berm seems to have note 2 (flush curb) next to everywhere except for the curved area in the Northeast corner of the parking lot by Regent Ave. Do I need flush curb there as well? Page C111.*
    Response: Flush curbing is not required here.

12. *Question:* Is the permit cost a pass-through cost back to the owner?
    Response: The City of Canton will waive city building department fees. Permits are still required but the fee is waived. All City inspections shall be coordinated/scheduled by the contractor.

13. Question: Are the tap fees a pass back cost to the owner?
    Response: Yes. The Owner may elect to pay these directly during construction.

14. Question: Is there somewhere on site that soil spoils can be stockpiled and left?
    Response: If there are clean spoils, accommodations will be made on-site. Coordination with the Owner is required to determined how much of the spoils can be located on-site and where they can be located.

SUBSTITUTION REQUEST:

Specification 10 21 13.17 – Phenolic-Core Toilet Systems; Scranton Products is an acceptable manufacturer. Product shall meet or exceed the quality and performance characteristics of the product listed in the specification and drawings.

Specification 10 51 13 – Metal Lockers; Scranton Products is NOT an acceptable manufacturer for metal lockers and benches.

Specification 13 34 19 – Metal Building Systems; Iron City Structures is an acceptable manufacturer. Product shall meet or exceed the quality and performance characteristics of the product listed in the specification and drawings.

Specification 31 66 13 - Rammed Aggregate Piers; Vibro Stone Columns are similar in concept to rammed aggregate piers. GPD takes no objections to this substitution

request, but just like rammed aggregate piers this is a designated design feature and the bidder shall meet the requirements we outlined relative to maximum settlement and minimum allowable bearing capacity in the specification.

SPECIFICATION REVISIONS:

1. 00 31 26 EXISTING HAZARDOUS MATERIAL INFORMATION
    a. Added "Three Salt Domes" asbestos report.

2. 10 21 13.17 PHENOLIC-CORE TOILET COMPARTMENTS
    a. Revised surface-burning characteristics: must meet NFPA 286 requirements.
    b. Removed Bobrick Washroom Equipment, Inc. as manufacturer.
    c. Added Scranton Products as manufacturer.
    d. Added Hadrian Solutions ULC as manufacturer.

3. 28 46 21.11 Addressable Fire Alarm Systems
    a. Added Simplex as a manufacturer.

DRAWING REVISIONS:

1. TS-001 TITLE SHEET
    a. Added sheet C-013 SWPP DETAILS to the drawing index.

2. C-011 SWPP PLAN
    a. Added Construction Sequence Note 1.1
    b. Added Bioretention and Topsoil Stockpile boxed note.
    c. Added Sediment Basin

3. C-012 WATER QUALITY PLAN
    a. Updated Bioretention soil media notes #3.
    b. Revised Plan Elevation G.
    c. Added Bioretention Filter Media Drawdown Calculations.
    d. Revised plan bioretention callouts.

4. C-013 SWPP DETAILS
    a. Added sheet

5. C-101 DEMOLTION PLAN
    a. Removed Catch Basin.
    b. Revised Plan Keynote #4.

6. C-111 SITE PLAN
    a. Revised Motorized Gates and motor location.
    b. Revised keynotes #15 and #16.
    c. Added Proposed Catch Basin.
    d. Curbing from Garage door changed to being Flush curb until 6' curb taper by flag pole.

7. C-121 GRADING PLAN

a. Revised Drive on the west side of bioretention to drain back towards the proposed bioretention basin.
b. Grading updated at east side gate for flush curbing.

8. C-122 GRADING ENLARGEMENT
    a. Revised curbing at garage to show flush curbing.

9. C-131 UTILITY PLAN
    a. Added proposed ODOT 2-2A catch basin with a window on north side.
    b. Revised OW-1 to add callout for detail on sheet C-503.
    c. Updated proposed domestic water to be 4”.
    d. Updated domestic and fire line to be tapped off existing main at north side with a tee and separate lines run to proposed connections at the building. All associated keynotes revised.
    e. Added note #6 to Utility crossing notes.
    f. Keynote updated to see proposed profile on Sheet C-132 for connection information.

10. C-132 SANITARY PUMP STATION NOTES AND PLAN
    a. Updated Oil and Water Separator to be 2500 Gallon in callout.

11. C-133 SANITARY PUMP STATION PLAN AND DETAILS
    a. Additional 1.5” ball valve added to valve vault to allow for future forcemain by-pass.

12. C-502 DETAILS
    a. Added A3 Temporary Sediment Basin detail.

13. C-503 CITY WATER AND COUNTY SANITARY DETAILS
    a. Added grease trap detail for general sizing purposes.
    b. Added City of Canton acceptable water service materials list.

14. C-504 DETAILS
    a. Added Motorized Gate details.

15. A-102 ENLARGED OFFICE PLAN
    a. Changed window tag to SF-4 at Mike’s Office 108
    b. Changed window tag to SF-8 at Meeting Room 116

16. A-201 EXTERIOR ELEVATIONS
    a. Changed window tag to SF-4 Drawing D1

17. A-202 EXTERIOR ELEVATIONS
    a. Changed window tag to SF-8 Drawing B1

18. A-302 BUILDING SECTIONS
    a. Changed window tag to SF-8 Drawing C1

19. A-352 WALL SECTIONS
    a. Changed window tag to SF-8 Drawing A2
    b. Changed window tag to SF-4 Drawing A5

20. A-603 WINDOW ELEVATIONS
    a. Added window elevation SF-8 Drawing B3

21. A-604 WINDOW DETAILS
    a. Added window sill detail Drawing A3
    b. Added window jamb detail Drawing B3
    c. Modified window sill detail Drawing C1

22. ES-101 ELECTRICAL SITE PLAN
    a. Adjusted motorized gate locations and associated coded notes.
    b. Revised lift station voltage.

23. E-102 ENLARGED LIGHTING PLANS – OFFICE, WASH BAY, FIRE PUMP RM
    a. Added notes for receptacle control in the interior lighting control scheme.

24. E-202 ENLARGED POWER PLAN – OFFICES
    a. Added designations for receptacle control in offices and conference rooms.
    b. Added associated coded note for receptacle control.

25. E-601 ELECTRICAL SINGLE LINE DIAGRAM
    a. Revised source for lift station.

26. E-602 ELECTRICAL PANELBOARD SCHEDULES
    a. Revised source for lift station.

27. Plumbing and Mechanical Sheets (FP-101, M-601, P-501, P-703)
    a. Misc. revisions

ATTACHMENTS:

1. Specifications
    a. 00 31 26 Existing Hazardous Material Information – SHED Only
    b. 10 21 13.17 Phenolic-Core Toilet Compartments
    c. 28 46 21.11 Addressable Fire-Alarm Systems
2. Drawings
    a. TS-001
    b. C-011
    c. C-012
    d. C-013
    e. C-101
    f. C-111
    g. C-121
    h. C-122
    i. C-131
    j. C-132
    k. C-133
    l. C-502
    m. C-503
    n. C-504
    o. A-102
    p. A-201

q. A-202
r. A-302
s. A-352
t. A-603
u. A-604
v. FP-101
w. M-601
x. P-501
y. P-703
z. ES-101
aa. E-102
bb. E-202
cc. E-601
dd. E-602

3. Other
    a. Pre-Bid Meeting Minutes and Sign-In Sheet.
    b. Salt Dome Section

END OF ADDENDUM

DOCUMENT 00 31 26 - EXISTING HAZARDOUS MATERIAL INFORMATION

1.1 EXISTING HAZARDOUS MATERIAL INFORMATION

A. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of Bidders' own investigations. They are made available for Bidders' convenience and information, but are not a warranty of existing conditions. This Document and its attachments are not part of the Contract Documents.

B. An existing asbestos report for Project, prepared by Pardee Environmental dated January 25, 2023, **entitled "Shed and Barn"** is available for viewing as appended to this Document.

C. An existing asbestos report for Project, prepared by Pardee Environmental dated February 21, 2023, entitled "Three Salt Domes" is available for viewing as appended to this Document.

D. Related Requirements:

1. "Instructions to Bidders" for the Bidder's responsibilities for examination of Project site and existing conditions.
2. Document 00 31 32 "Geotechnical Data" for reports and soil-boring data from geotechnical investigations that are made available to bidders.
3. Section 02 41 16 "Structure Demolition"" for notification requirements if materials suspected of containing hazardous materials are encountered.

END OF DOCUMENT 00 31 26

Pardee environmental

January 25, 2023

To: Rick Bodenschatz, PS
CANTON CITY ENGINEERING DEPT.

From: John Pardee, President
PARDEE ENVIRONMENTAL

Re: Environmental Screening Inspection Report:
Shed and barn
2436 30th St. NE.
Canton, Ohio 44705

Mr. Bodenschatz,

As per your request, Pardee Environmental conducted an environmental screening and an asbestos inspection on January 18, 2023 on the identified barn and shed at the above listed address. Below and attached are the findings.

- **Scope of work**: Two buildings were assessed for environmental issues in advance of their planned demolition. One was a 9x7 wooden shed and the other was a 30x21 wood and metal barn.

- **Shed**: I inspected the shed and found it to be fairly modern construction and based on my observations, no samples were collected from this structure. It is a simple wood framed and sided building with the only interior finishes being the peal & stick floor tile. The roofing is made of asphalt shingles. I have never found peal & stick floor tile to be an asbestos containing material (ACM) and the EPA allows all flooring to remain in the building during demo, regardless of asbestos content, as long as the material is not burned, abraded or purposefully pulverized. Same goes for asphalt roofing that is still pliable, as in this case, making it a non-friable roofing material which can also stay on the building during demo with the same caveats as the floor tile. We inspected the core material of the door since it is a fire-rated door and we did not find anything other than a wood composite fill. The demo contractor should simply list both the floor tile (63 sq. ft.) and the roofing (80 sq. ft.) as Presumed ACM's (PACM's) on the demolition notice to the EPA. The EPA does not allow refrigerant containing equipment to remain in buildings to be demolished so the wall-mounted AC unit will have to be removed prior to demo. It can be reused, sold or disposed of at a facility that will reclaim the refrigerant. Although the two florescent light fixtures appear quite modern, I would recommend they too be removed and reused or recycled prior to demo.

- **Barn**: The barn was found to be framed with old log beams and joists with metal cladding on the sides and roof. The metal was inspected and found to be rusting indicating the absence of lead in the alloy nor was there any fibrous material on or in the siding eliminating the concerns about these materials being "Metal-bestos" products. The interior has a concrete floor with an 18x4 foot trench in the center with a dirt floor bottom. The dirt appeared on the surface to be clean and dry with no visible staining or odor. Using a 4-inch diameter hand auger, we advanced two borings to an approximate depth of 4 feet, one in either end of the trench. We found no discoloration, staining, odor or liquid that wasn't groundwater. The only finding of note was

from the sample on the east end of the trench where we noted some bits of coal at the surface. Coal is not a regulated material. Both samples were found to be primarily clean native soil so the decision was made to forego the collection and analysis of the soils in the trench. The only suspect ACM's found in the barn was the window glazing on the two lower westward facing windows. Both were sampled and the samples were submitted to EMSL Analytical in Indianapolis, IN for analysis. One sample was found to not contain asbestos while the other was found to contain less than 1% Chrysotile asbestos which, by EPA definition, is not a regulated amount of asbestos. In conclusion, there are no environmental encumbrances or issues relating to the demolition of this structure and the demo contractor is free to file their notice of intent to demo with the EPA as is required by law for the demolition of commercial buildings.

Regards,

John P. Pardee, President
Pardee Environmental
Asbestos Hazard Evaluation Specialist Cert. #ES3201

Attachments: Lab report and chain-of-custody
Site photos
State certifications

OrderID: 162301532

Pardee environmental

QUALITY CONTROL
SAMPLE TRANSMITTAL
CHAIN - OF - CUSTODY FORM

162301532

X Regular _____ Rush Results needed by: 3 day TAT

Samples taken at: 2436 30th St., Canton, OH

Type of samples: Bulk Analysis requested: PLM/Point Count as per agreement

SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
A-1	Window glazing	Barn
A-2	Window glazing	Barn

TRANSFERAL RECORD

Relinquished by: John Pardee Relinquished to: _____ Date: 01-18-23

Relinquished by: _____ Relinquished to: _____ Date: _____

Sent by courier: FedEx (indicate type)

Received by: Renee Farrell 1/20/23 9:46AM GFX

PARDEE ENVIRONMENTAL, 47391 Garfield Road, Oberlin, Ohio 44074
Email: jpincenv@gmail.com || Phone: (440) 315-2735

EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order:	162301532
Customer ID:	JPCI50
Customer PO:	
Project ID:	

Attention:	John Pardee	**Phone:**	(440) 315-2735
	JP ENVIRONMENTAL CONSULT, INC.	**Fax:**	(440) 984-3145
	47391 Garfield Road	**Received Date:**	01/20/2023 9:46 AM
	Oberlin, OH 44074	**Analysis Date:**	01/25/2023
		Collected Date:	
Project:	2436 30th St., Canton, OH		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
A-1 *162301532-0001*	Barn - Window Glazing	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
A-2 *162301532-0002*	Barn - Window Glazing	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Paul Rihm (2)

Asbestos Laboratory Manager
or Other Approved Signatory

Initial report from: 01/25/2023 09:53:14

EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250
Phone/Fax: (317) 803-2997 / (317) 803-3047
http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order:	162301532
Customer ID:	JPCI50
Customer PO:	
Project ID:	

Attention:	John Pardee JP ENVIRONMENTAL CONSULT, INC. 47391 Garfield Road Oberlin, OH 44074	**Phone:**	(440) 315-2735
		Fax:	(440) 984-3145
		Received:	01/20/2023 9:46 AM
		Analysis Date:	01/25/2023
		Collected:	
Project:	2436 30th St., Canton, OH		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
A-1 *162301532-0001*	Barn - Window Glazing	White Non-Fibrous Homogeneous		99.75% Non-fibrous (Other)	**0.25% Chrysotile**

Analyst(s)

Paul Rihm (1)

Asbestos Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0

Initial report from: 01/25/2023 09:53:11

AC unit in shed

Florescent lights in shed

Peal and Stick floor tile in shed

West facing window in barn that were sampled for asbestos

Floor trench in barn

West side sampling with hand auger

Sample of clean soil found at one foot in the west side of the trench

Sample of clean soil found at three feet in the west side of the trench

Sample of clean soil found at four feet in the west side of the trench

Sampling the east side of the trench

Some of the coal fragments from the east boring at the surface

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

John
Pardee

47391 Garfield Road
Oberlin OH 44074

DOB: 1/11/61

Card not Valid if Altered

Certification Number	Expiration Date
ES3201	2/11/23

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Abatement Project Designer

John
Pardee

47391 Garfield Road
Oberlin OH 44074

DOB: 1/11/61

Card not Valid if Altered

Certification Number	Expiration Date
PD60060	2/11/23

Pardee environmental

February 21, 2023

To: Rick Bodenschatz, PS
CANTON CITY ENGINEERING DEPT.

From: John Pardee, President
PARDEE ENVIRONMENTAL

Re: Asbestos Inspection Report:
Three salt domes
2436 30th St. NE.
Canton, Ohio 44705

Mr. Bodenschatz,

As per your request, Pardee Environmental conducted an environmental screening and an asbestos inspection on February 9, 2023 on the three salt domes at the above listed address. Below and attached are the findings.

- **Site observations**: Two of the three salt domes appear fairly modern wooden structures with asphalt shingles and the only material we sampled was the asphalt shingle roofing in order to confirm my suspicion about there not being asbestos in the roofing in order to simply the demo process. One salt dome was smaller than the other two and was constructed of concrete with a painted white & black exterior coating. The coating material was also sampled.

- **Sample results**: The asphalt shingles from the modern wooden domes were not found to contain any asbestos while the exterior coating on the concrete dome did have a low percentage of asbestos in it. I ordered a follow-up EPA-approved Point Count analysis on the coating samples that required a "gravimetric reduction" preparation and the final result found the two samples of the coating had asbestos concentrations of 0.6% and 0.4%. Anything less than 1% is considered by the EPA as a non-asbestos containing material. Furthermore, the coating was still very pliable and as such not a risk to become friable during demolition.

- **Conclusions**: There are no restrictions regarding the demolition of these three structures. I would advise the demolition contractor to not recycle (pulverize) the coated concrete but to bust it up in manageable pieces and dispose of as construction debris. I saw no other environmental issues with respect to these structures. Demolition is free to commence.

- **EPA notification**: The demo contractor needs to file a pre-demolition notification with the Ohio EPA for all of the buildings we inspected including the shed, the barn, the house and the three salt domes. They are free to contact me if they have any questions about this filing.

Regards,

John P. Pardee, President
Pardee Environmental
Asbestos Hazard Evaluation Specialist Cert. #ES3201

Attachments: Lab report and chain-of-custody
State certifications

OrderID: 162303086

Pardee environmental

QUALITY CONTROL
SAMPLE TRANSMITTAL
CHAIN - OF - CUSTODY FORM

#162303086

X Regular _____ Rush Results needed by: 5 day TAT

Samples taken at: Canton City Complex Salt Domes, 30th St, Canton, Ohio

Type of samples: Bulk Analysis requested: PLM/Point Count as per agreement

SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
S-1	Dome coating	White dome
S-2	Dome coating	White dome
S-3	Roof shingle	SW dome
S-4	Roof shingle	SW dome
S-5	Roof shingle	W dome
S-6	Roof shingle	W dome

TRANSFERAL RECORD

Relinquished by: John Pardee Relinquished to: _____ Date: 02-09-23
Relinquished by: _____ Relinquished to: _____ Date: _____
Sent by courier: FedEx (indicate type)

Denise Farrell 2/10/23 10:17AM
FEX

EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order:	162303086
Customer ID:	JPCI50
Customer PO:	
Project ID:	

Attention:	John Pardee	**Phone:**	(440) 315-2735
	JP ENVIRONMENTAL CONSULT, INC.	**Fax:**	(440) 984-3145
	47391 Garfield Road	**Received Date:**	02/10/2023 10:17 AM
	Oberlin, OH 44074	**Analysis Date:**	02/16/2023
		Collected Date:	

Project: Canton City Complex Salt Domes, 30th St., Canton, Ohio

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
S-1 *162303086-0001*	Dome Coating - White Dome	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
S-2 *162303086-0002*	Dome Coating - White Dome	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
S-3 *162303086-0003*	Roof Shingle - SW Dome	Red/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
S-4 *162303086-0004*	Roof Shingle - SW Dome	Red/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
S-5 *162303086-0005*	Roof Shingle - W Dome	Red/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
S-6 *162303086-0006*	Roof Shingle - W Dome	Red/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected

Analyst(s)

Maggie Hayden (6)

Asbestos Laboratory Manager
or Other Approved Signatory

Initial report from: 02/16/2023 11:08:23

EMSL Analytical, Inc.
6340 CastlePlace Dr., Indianapolis, IN 46250
Phone/Fax: (317) 803-2997 / (317) 803-3047
http://www.EMSL.com indianapolislab@emsl.com

EMSL Order:	162303086
CustomerID:	JPCI50
CustomerPO:	
ProjectID:	

Attn: **John Pardee**
JP ENVIRONMENTAL CONSULT, INC.
47391 Garfield Road
Oberlin, OH 44074

Phone:	(440) 315-2735
Fax:	(440) 984-3145
Received:	2/10/2023 10:17 AM
Analysis Date:	2/21/2023
Collected:	

Project: **Canton City Complex Salt Domes, 30th St., Canton, Ohio**

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy with Gravimetric Reduction. Quantitation using 400 Point Count Procedure.

SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
S-1 *162303086-0001*	Dome Coating - White Dome	White/Black Non-Fibrous Homogeneous	49.1	0.0		50.5 Non-fibrous (other)	0.4 Chrysotile
S-2 *162303086-0002*	Dome Coating - White Dome	White/Black Non-Fibrous Homogeneous	41.8	0.0		57.6 Non-fibrous (other)	0.6 Chrysotile

Analyst(s)
Hilary Jarvis (2)

Melissa Newkirk
Asbestos Laboratory Manager
or other approved signatory

Initial report from 02/21/2023 10:16:50

THIS IS THE LAST PAGE OF THE REPORT.

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

John
Pardee

47391 Garfield Road
Oberlin OH 44074

DOB: 1/11/61

Card not Valid if Altered

Certification Number	Expiration Date
ES3201	2/11/23

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Abatement Project Designer

John
Pardee

47391 Garfield Road
Oberlin OH 44074

DOB: 1/11/61

Card not Valid if Altered

Certification Number	Expiration Date
PD60060	2/11/23

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Extra Stock Materials: Furnish extra materials to Owner that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Door Hinges: One hinge(s) with associated fasteners.
   2. Latch and Keeper: One latch(es) and keeper(s) with associated fasteners.
   3. Door Bumper: One door bumper(s) with associated fasteners.
   4. Door Pull: One door pull(s) with associated fasteners.
   5. Fasteners: 10 fasteners of each size and type.

1.6 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of toilet fixtures, walls, columns, ceilings, and other construction contiguous with toilet compartments by field measurements, and coordinate before fabrication.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain phenolic-core toilet compartments from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Surface-Burning Characteristics: Comply with **NFPA 286**; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

B. Structural Performance: Where grab bars are mounted on toilet compartments, design panels to comply with the following requirements:
   1. Panels are able to withstand a concentrated load on grab bar of at least 250 lbf applied at any direction and at any point, without deformation of panel.

C. Regulatory Requirements: Comply with applicable provisions in ICC A117.1 for toilet compartments designated as accessible.

2.3 PHENOLIC-CORE TOILET COMPARTMENTS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. ASI Global Partitions.
   2. ~~Bobrick Washroom Equipment, Inc~~.
   3. Bradley Corporation.
   4. Scranton Products
   5. Hadrian Solutions ULC

B. Toilet-Enclosure Style: Overhead braced, Floor anchored.

C. Urinal-Screen Style: Wall hung.

4. Detector Bases: Quantity equal to two percent of amount of each type installed, but no fewer than one unit of each type.
5. Keys and Tools: One extra set for access to locked or tamperproofed components.
6. Audible and Visual Notification Appliances: One of each type installed.
7. Fuses: Two of each type installed in system. Provide in box or cabinet with compartments marked with fuse types and sizes.

1.8 QUALITY ASSURANCE

A. Installer Qualifications:

1. Personnel must be trained and certified by manufacturer for installation of units required for this Project.
2. Installation must be by personnel certified by NICET as fire-alarm Level IV technician.
3. Obtain certification by NRTL in accordance with NFPA 72.
4. Licensed or certified by authorities having jurisdiction.

1.9 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace fire-alarm system equipment and components that fail because of defects in materials or workmanship within specified warranty period.

1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 ADDRESSABLE FIRE-ALARM SYSTEM

A. Manufactures
1. Gamewell-FCI, Honeywell Fire Systems.
2. Notifier
3. Siemens
4. SIMPLEX

B. Description:

1. Noncoded, UL-certified addressable system, with multiplexed signal transmission and horn-and-strobe notification for evacuation.

C. Performance Criteria:

1. Regulatory Requirements:

a. Fire-Alarm Components, Devices, and Accessories: Listed and labeled by a NRTL in accordance with NFPA 70 for use with selected fire-alarm system and marked for intended location and application.

2. General Characteristics:

a. Automatic sensitivity control of certain smoke detectors.

CITY OF CANTON
SANITATION BUILDING
PROJECT GP1376

2801 REGENT AVE. N.E.
CANTON, OH 44705

VICINITY MAP

MAP DATA ©2022 GOOGLE

SITE MAP

IMAGERY ©2022 GOOGLE CNES / AIRBUS, MAXAR TECHNOLOGIES, STATE OF OHIO / OSIP, USDA/FPAC/GEO, MAP DATA ©2022

PROJECT CONTACTS

OWNER: CITY OF CANTON
OFFICE OF THE MAYOR
218 CLEVELAND AVE. SW
CANTON, OH 44702

MAYOR: THOMAS BERNABEI
DIRECTOR OF PUBLIC SERVICE: JOHN M. HIGHMAN, JR.
CITY COUNCIL MEMBERS: WILLIAM SHERER II, LOUIS GIAVASIS, JASON SCAGLIONE, KEVIN HALL, FRANK MORRIS, BILL SMUCKLER, GREG HAWK, CHRIS SMITH, JOHN MARDUL II, JAMES BABCOCK, BRENDA KIMBROUGH, ROBERT FISHER, PETER FERGUSON

ARCHITECT AND ENGINEERS
GPD GROUP
CONTACT: RUSSELL GAYHEART
520 SOUTH MAIN STREET, SUITE 2531
AKRON, OH 44311
PHONE: 330.572.3525

TECHNOLOGY
IMEG CORP.
CONTACT: CRAIG BUCHHOLZ
855 GRANDVIEW AVENUE, SUITE 300
COLUMBUS, OH 43215
PHONE: 380.900.8268

GENERAL SHEET NOTE INSTRUCTIONS

GENERAL SHEET NOTES ARE USED TO COMMUNICATE SHEET SPECIFIC INFORMATION OR INSTRUCTIONS. THESE NOTES APPLY TO THE ENTIRE SHEET.

EXAMPLE: 1. REFER TO A-606 FOR WALL PARTITION TYPES.

REFERENCE KEYNOTE INSTRUCTIONS

REFERENCE KEYNOTES ARE USED TO IDENTIFY GRAPHIC REPRESENTATIONS OF ITEMS IN THE DRAWING AND DIRECTLY REFERENCE THEM TO SPECIFICATIONS. A LEGEND ON THE RIGHT HAND SIDE OF THE PAGE LISTS THE REFERENCE KEYNOTES ON THE DRAWING AREA AND THE MATERIAL THEY REPRESENT.

EXAMPLE: 05 12 00.A01
- 05 12 00 — ROOT - SAME NUMBER AS THE SPECIFICATION BEING REFERENCED
- . — DECIMAL POINT - SEPERATES ROOT FROM SUFFIX
- A01 — SUFFIX - REPRESENTATION OF THE MATERIAL BEING REFERENCED. THIS NUMBER DOES NOT CORRESPOND TO A PARTICULAR SECTION WITHIN THE SPECIFICATION
- FACE BRICK - SOLDIER COURSE — DESCRIPTOR - MATERIAL DESCRIPTION

SHEET KEYNOTE INSTRUCTIONS

SHEET KEYNOTES ARE NOTED WITHIN THE GRAPHIC AREA OF THE DRAWING. THESE ARE REPRESENTED BY A NUMBER SURROUNDED BY A HEXAGON, WITH OR WITHOUT A LEADER. A LEGEND ON THE RIGHT SIDE OF THE PAGE LISTS THE NOTES IN NUMERICAL ORDER.

EXAMPLE: 1

1. ALIGN NEW CONSTRUCTION WITH THE FACE OF EXISTING CONSTRUCTION.

SYMBOL AND MATERIAL LEGEND

- XXXXXXXXX — ROOM NAME
- ### — ROOM NUMBER
- ##### SF — ACTUAL S.F.
- MATCH LINE
- BREAK MARK
- CP1 — CONTROL POINT
- T.O. MASONRY 12'-0" — DATUM MARK
- A — WALL TAG
- AW12 — WINDOW TAG
- 101 — DOOR TAG
- A1 / A-101 — WALL SECTION MARK
- A1 / A-101 — BUILDING SECTION MARK
- A1 / E2 / A-101 / A2 / A1 / B4 — ELEVATION TAGS
- 1 / A101 SIM — ENLARGED PLAN OR DETAIL
- REVISION CLOUD
- # — COLUMN DESIGNATION

BRK	BRICK VENEER
CMB	CERAMIC MOSAIC BASE
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CPT	CARPET TILE
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EP	EPOXY PAINT
FF	FACTORY FINISH
GF	GROUND FACE CMU
HLB	HORIZONTAL LOUVER BLIND
LS	LINOLEUM SHEET
LVT	LUXURY VINYL TILE
MTP	METAL WALL PANEL
P	PAINT
PDE	PAINT, DRY ERASE
PL	PLASTIC LAMINATE
PT	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
QB	QUARRY BASE
QT	QUARRY TILE
RAF	RESILIENT ATHLETIC FLOORING
RB	RUBBER BASE
RS	ROLLER SHADE
RST	RUBBER STAIR TREAD
RU	RUBBER FLOOR TILE
SC	SEALED CONCRETE
SDG	SIDING MATERIAL
SDT	STATIC DISSIPATIVE TILE
SSM	SOLID SURFACE MATERIAL
STN	STONE VENEER
VCT	VINYL COMPOSITION TILE
VRB	VENTILATED RESILIENT BASE
WAF	WOOD ATHLETIC FLOORING
WC	WALLCOVERING
WOC	WALK-OFF CARPET TILE

DRAWING INDEX

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	3/1/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

TITTLE SHEET

ISSUED FOR:	
PERMIT	--/--/----
BID	--/--/----
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RG	SH

JOB NO.
2020377.05

TS-001

3/1/2023 3:10:36 PM

BENCHMARKS:
STATE PLANE GRID NORTH, NAD 83 (2011),
OHIO NORTH ZONE.
ELEVATIONS ARE NAVD 88, GEOID 18.
TIED BY GPS TO THE O.D.O.T. VRS.

BENCHMARK #2 - MAG SPIKE ON SOUTH SIDE OF UTILITY POLE
N 425092, E 2289710
ELEVATION = 1060.95

BENCHMARK #4 - MAG SPIKE ON WEST SIDE OF UTILITY POLE
N 425103, E 2289980
ELEVATION = 1066.51.

BENCHMARK #6 - NORTH EAST BONNET BOLT BETWEEN VILLE & ALA
N 425232, E 2290227
ELEVATION = 1077.30.

OHIO811.org Before You Dig

UTILITIES SHOWN ON SURVEY WERE LOCATED BASED ON FIELD MARKING PROVIDED BY OUPS REQUEST #A207700537 AND #A207700538.

CONSTRUCTION SEQUENCE

1. DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED. A GENERAL CONSTRUCTION SEQUENCE FOLLOWS AND MAY NEED TO BE UPDATED BY THE CONTRACTOR TO SUIT THE SPECIFICS OF THE SITE AND INTENDED CONTRACTOR SPECIFIC SEQUENCING.
   - 1.1. CONTACT STARK SOIL AND WATER CONSERVATION DISTRICT TO SCHEDULE A PRECONSTRUCTION MEETING AT 330.451.7845 PRIOR TO ANY EARTH MOVING ACTIVITY.
   - 1.2. INSTALL CONSTRUCTION ENTRANCE AS SHOWN ON PLANS. TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED AROUND PERIMETER OF CONSTRUCTION SITE. WHERE THERE IS EXISTING FENCE ALONG THE PERIMETER OF THE SITE, IT CAN BE UTILIZED. FENCING SHALL BE USED TO RESTRICT OUTSIDE TRAFFIC TO SITE.
   - 1.3. DELIVER CONSTRUCTION TRAILER TO SITE AND INSTALL TEMPORARY POWER AND TELEPHONE, IF REQUIRED. TEMPORARY UTILITY SERVICES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
   - 1.4. STAKE AND/OR FLAG LIMITS OF CLEARING.
   - 1.5. CLEAR & GRUB, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS. INSTALL SILT PERIMETER CONTROLS AS SHOWN ON PLANS. SILT PERIMETER CONTROLS SHALL BE INSTALLED LEVEL, ALONG THE CONTOURS, WITH ENDS TURNED UPSLOPE TO PREVENT CONCENTRATED FLOW AT THE SILT PERIMETER CONTROLS.
   - 1.6. INSTALL TEMPORARY SILT INLET PROTECTION ON ALL EXISTING CATCH BASINS AND INLETS, AS DESIGNATED IN THE PLANS. REMOVAL OF SILT INLET PROTECTION FROM DESIGNATED INLETS CAN ONLY OCCUR WHEN A STRUCTURE IS REMOVED, AND AS REQUIRED BY THE PROGRESSION OF THE DEMOLITION AND CONSTRUCTION.
   - 1.7. CLEAR & GRUB THE SITE AS NECESSARY. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR REUSE, OR REMOVED TO AN APPROVED OFFSITE SPOIL AREA.
   - 1.8. UTILIZE DUST CONTROL MEASURES AS REQUIRED TO MINIMIZE AIR-BORNE POLLUTION BY METHODS APPROVED BY THE AUTHORIZING EPA OFFICE.
   - 1.9. REMOVE HAZARDOUS SOIL FROM SITE AND DISPOSE IN APPROPRIATE LANDFILL.
   - 1.10. BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
   - 1.11. ONCE PAVEMENT GRADES HAVE BEEN ESTABLISHED, AS DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL UTILIZE THESE AREAS FOR STRUCTURE CONSTRUCTION.
   - 1.12. CONSTRUCT UNDERGROUND UTILITY WORK INCLUDING STORM DRAINAGE FACILITIES. UPON INSTALLATION OF STORM DRAINAGE CATCH BASINS, YARD DRAINS AND INLETS, INSTALL REQUIRED INLET PROTECTION.
   - 1.13. DO NOT REPLACE ANY TOPSOIL, SEED OR INSTALL FINAL PAVEMENT PRIOR TO COMPLETION OF BUILDING SHELL. SHOULD SITEWORK BE COMPLETED PRIOR TO THIS DATE, MULCH DISTURBED AREAS TO BE PLANTED AND INSTALL STONE SUBBASE IN DISTURBED AREAS TO BE PAVED.
   - 1.14. FOLLOWING COMPLETION OF BUILDING SHELL AND PAVEMENT INSTALLATION, BEGIN BIORETENTION BASIN AND LANDSCAPE INSTALLATION.
   - 1.15. COMPLETE SITEWORK, PAVEMENT MARKINGS AND FINAL CLEAN-UP. RESEED ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A MINIMUM 80% VEGETATIVE DENSITY HAS BEEN ACHIEVED.
   - 1.16. MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED. ALL AREAS OF VEGETATIVE SURFACE, WHETHER PERMANENT OR TEMPORARY, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED.
   - 1.17. REMOVE SEDIMENT CONTROLS.

PROJECT DESCRIPTION

THIS SITE IS HOME TO THREE SALT DOMES AND ASSOCIATED ASPHALT AND GRAVEL PAVEMENT THAT WILL BE DEMOLISHED AND REMOVED. A PROPOSED SANITATION BUILDING WILL BUILT WITH ASPHALT PARKING STALLS AND ASSOCIATED SIDEWALKS.

PROJECT COMPLETION STATISTICS

PARCEL SIZE : 32.67 ACRES (TOTAL CAMPUS)
TOTAL DISTURBED AREA: *8.42 ACRES

*WATER QUALITY WILL BE OF THE ENTIRE CAMPUS IMPROVEMENTS, WHICH INCLUDE TWO SEPARATE PROJECTS. ALL WATER QUALITY REQUIRED FOR CAMPUS WILL BE DESIGNED AND ACCOUNTED ON THIS PROJECT SET.

EXISTING LAND USE FOR THE SITE IS A SALT DOME WITH PAVEMENT.
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS AREA: **22.65 ACRES
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS PERCENT: **69.4%
PRE-CONSTRUCTION RUN-OFF COEFFICIENT: **0.77

PROPOSED LAND USE WILL BE SANITATION BUILDING WITH ASPHALT PARKING
ESTIMATED POST-CONSTRUCTION IMPERVIOUS AREA **23.67 ACRES
ESTIMATED POST-CONSTRUCTION IMPERVIOUS PERCENT: **72.5%
POST-CONSTRUCTION RUN-OFF COEFFICIENT: **0.78

** NUMBERS BASED ON ENTIRE CAMPUS IMPROVEMENTS.

PROJECT LOCATION:
LATITUDE 40° 49' 38" N
LONGITUDE 81° 20' 16" W

EXISTING SITE SOIL TYPES:
Ua: UDORTHENTS,
WhA: WEINBACH SILT LOAM, 0 TO 2 PERCENT SLOPES, HSG = C/D
Pg: PITS, GRAVEL
W: WATER
Ge: GINAT SILT LOAM, HSG = C/D
REFERENCE: USDA NATIONAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.

WETLAND INFORMATION:
THERE ARE NO WETLANDS ON THIS SITE.

FIRST AND SUBSEQUENT RECEIVING STREAM:
INITIAL RECEIVING WATER AN EXISTING SEWER SYSTEM AND THE SUBSEQUENT RECEIVING WATER IS THE MIDDLE BRANCH NIMISHILLEN CREEK.

OWNER CONTACT:
JAMES DIMARZIO
218 CLEVELAND AVENUE SW
P.O. BOX 24218
CANTON, OHIO 44701
330.438.6941
JAMES.DIMARZIO@CANTONOHIO.GOV

ANTICIPATED TIMING:
CONSTRUCTION BEGIN: SPRING 2023
CONSTRUCTION COMPLETE: FALL 2024
CONTRACTOR: _____
CONTACT: _____
PHONE NUMBER: _____

CONTRACTOR SHALL MAINTAIN A CONSTRUCTION LOG DOCUMENTING ALL GRADING AND STABILIZATION ACTIVITIES.

SWPP COORDINATION NOTE:

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE AREAS DESIGNATED FOR THE STORAGE AND DISPOSAL OF SOLID, SANITARY, AND TOXIC WASTES (INCLUDING DUMPSTER AREAS AND AREAS FOR VEHICLE FUELING/MAINTENANCE) WITH THE OWNER'S REPRESENTATIVE. FINAL LOCATION SHALL BE APPROVED BY A SWPP AUTHORITY REPRESENTATIVE.
2. NO ABOVE GROUND FUEL TANKS STORED ON SITE. ALL FUEL FOR HEAVY EQUIPMENT TO BE DELIVERED TO SITE AND DISPENSED CAREFULLY INTO FUEL TANKS.

PLAN CERTIFICATION

I, THE UNDERSIGNED, REPRESENT THAT THIS DOCUMENT AND ALL ATTACHMENTS BEARING MY STAMP/SEAL WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN GENERAL ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGED THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO MY REASONABLE KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE FOR KNOWING VIOLATIONS.

_____
LEONARDO SFERRA, P.E.
GPD GROUP

TOPSOIL STOCKPILE

ANY TOPSOIL THAT IS TO REMAIN ONSITE IN A STOCKPILE SHALL BE COORDINATED WITH THE OWNER ON LOCATION. CONTRACTOR SHALL PLACE APPROPRIATE PERIMETER SEDIMENT CONTROL DEVICES AND NOTIFY STARK SOIL AND WATER FOR APPROVAL.

BIORETENTION

SEE SHEET C-012 FOR BIORETENTION LOCATION AND DETAILS.

N
0 30
15 60
1"=30'
Horizontal Scale in Feet

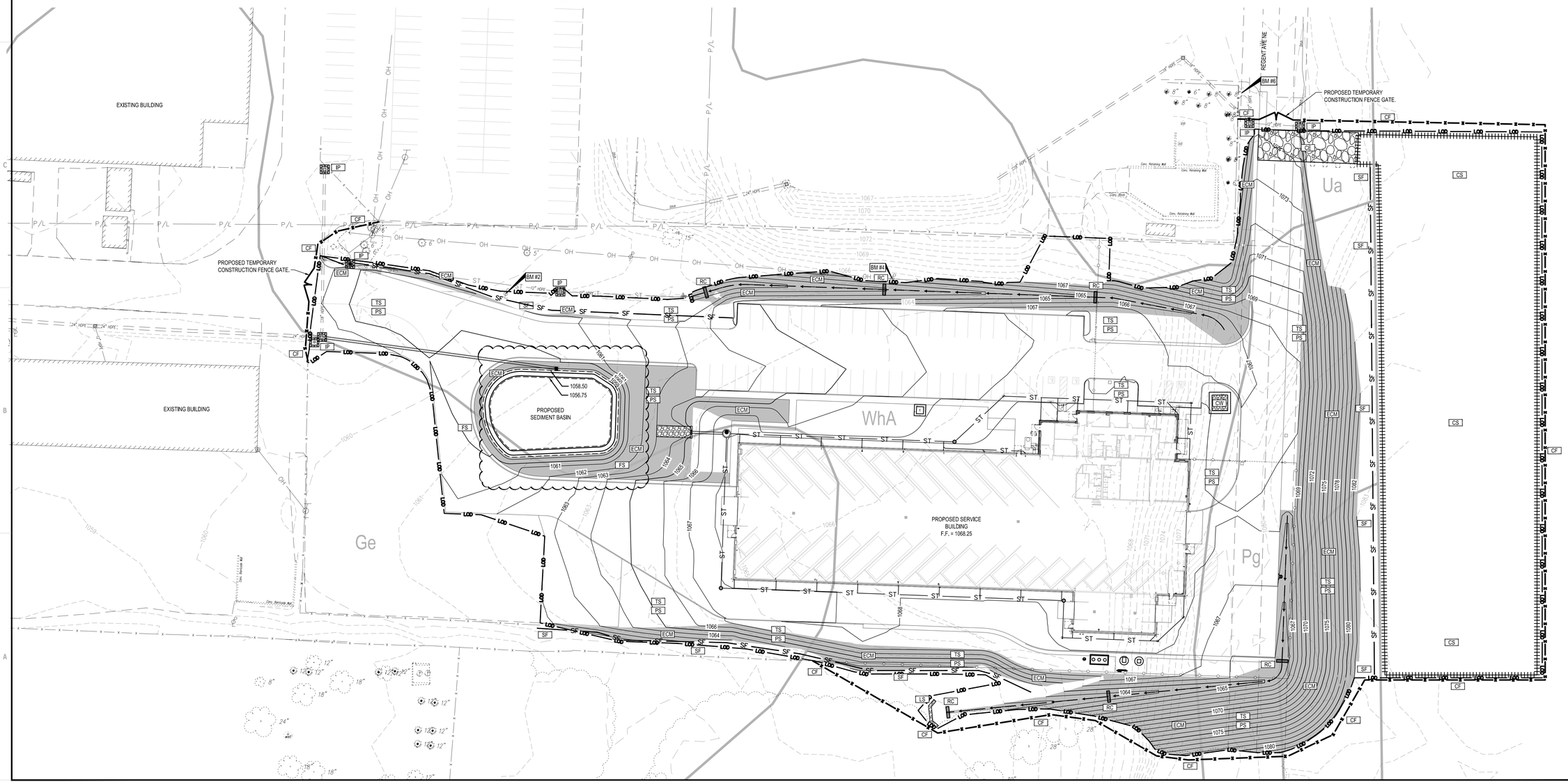
SWPP KEYNOTES

- TS TEMPORARY SEEDING
- PS PERMANENT SEEDING
- CW CONCRETE WASHOUT AREA
- RC ROCK CHECK DAM
- SF SILT FENCE
- FS FILTER SOCK
- CE CONSTRUCTION ENTRANCE
- BR BIO-RETENTION BASIN
- IP INLET PROTECTION
- CF TEMPORARY CONSTRUCTION FENCE
- CS CONSTRUCTION STAGING / LAYDOWN AREA
- LS PERMANENT LEVEL SPREADER
- ECM PERMANENT EROSION CONTROL MATTING

LEGEND

(SEE SHEET C-001 FOR GENERAL LEGEND)

- PROPOSED SILT BARRIER REFER TO SWPP DETAILS
- SF — PROPOSED SILT FENCE REFER TO SWPP DETAILS
- FS — PROPOSED FILTER SOCK REFER TO SWPP DETAILS
- PROPOSED CONSTRUCTION ENTRANCE REFER TO SWPP DETAILS
- PROPOSED CONCRETE WASHOUT FACILITY REFER TO SWPP DETAILS
- LOD — LIMITS OF DISTRUBANCE
- TEMPORARY CONSTRUCTION FENCE
- PROPOSED CONSTRUCTION STAGING / LAYDOWN AREA.
- NORTH AMERICAN GREEN, ROLLMAX VMAX SC-250 PERMANENT EROSION CONTROL MATTING ANCHORED WITH ARMORMAX ENGINEERED ANCHORS.



GPD GROUP
Gloos, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2101

REV:	DATE	DESCRIPTION
1	03/03/2023	ADDENDUM 01

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

SWPP PLAN

ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	TJW

JOB NO.
2020377.05

C-011

Drawing Name: O:\2020\2020377\05 - Sanitation Building\4_Working Files\00_CAD (2020)\C\Sheets\20203775.05 SWPP Plan.dwg
Plotted: Mar 02, 2023 8:25 PM - twright

BENCHMARKS:
STATE PLANE GRID NORTH, NAD 83 (2011).
OHIO NORTH ZONE.
ELEVATIONS ARE NAVD 88, GEOID 18.
TIED BY GPS TO THE O.D.O.T. VRS.

BENCHMARK #2 - MAG SPIKE ON SOUTH SIDE OF UTILITY POLE
N 425092, E 2288710
ELEVATION = 1060.95

BENCHMARK #4 - MAG SPIKE ON WEST SIDE OF UTILITY POLE
N 425103, E 2289980
ELEVATION = 1066.51.

BENCHMARK #6 - NORTH EAST BONNET BOLT BETWEEN VILLE & ALA
N 425232, E 2290227
ELEVATION = 1077.30.

OHIO811.org Before You Dig

UTILITIES SHOWN ON SURVEY WERE LOCATED BASED ON FIELD MARKING PROVIDED BY OUPS REQUEST #A207700537 AND #A207700538.

NOTES:

1. CONSTRUCTION SHALL BE PER ODNR RAIN WATER MANUAL CHAPTER 2.9 BIORETENTION REQUIREMENTS.
2. TIMING OF CONSTRUCTION - CONSTRUCTION OF BIORETENTION PRACTICES SHALL TAKE PLACE AFTER LAND GRADING IS COMPLETE AND THE CONTRIBUTING DRAINAGE AREA HAS BEEN FULLY STABILIZED.
3. -TEXTURE CLASS: LOAMY SAND. HAVING NO LESS THAN 80% SAND AND NO GREATER THAN 10% CLAY CONSIDERING ONLY THE MINERAL FRACTION OF THE SOIL.
   -PH RANGE: 5.2-8.0
   -SOLUBLE SALTS: 500 PPM MAXIMUM.
   -DECOMPOSED ORGANIC MATTER: 3-5% BY WEIGHT (NOTE: THIS TRANSLATES TO 8-20% ORGANIC MATTER BY VOLUME. SEE NOTE ON "CREATING A SUITABLE SOIL MEDIA" BELOW.)
   -PHOSPHORUS: PHOSPHORUS OF THE PLANTING MEDIA SHOULD FALL BETWEEN 15 AND 60 MG/KG (PPM) AS DETERMINED BY THE MEHLICH III TEST. FOR SITES IN WATERSHEDS WITH A PHOSPHORUS TMDL OR SITES WITH HIGH PHOSPHORUS LOADS, THE PHOSPHORUS CONTENT OF THE PLANTING MEDIA SHOULD FALL BETWEEN 10 AND 30 MG/KG AS DETERMINED BY THE MEHLICH III TEST.
   -SAND ADDED SHALL BE CLEAN AND MEET AASHTO M-6 OR ASTM C-33 WITH A GRAIN SIZE OF 0.02-0.04 INCHES.

CREATING SUITABLE SOIL MEDIA - TO MEET THE ABOVE SOIL MEDIA CRITERIA, THE FOLLOWING MIX (BY VOLUME) IS RECOMMENDED AS A STARTING POINT:
SAND: 7.5 PARTS CLEAN SAND (I.E., ASTM C-33 OR EQUIVALENT, <1% PASSING NO. 200 SIEVE)

NATIVE SOIL: 1.5 PART (LOAM, SILT LOAM OR CLAY LOAM TEXTURE)

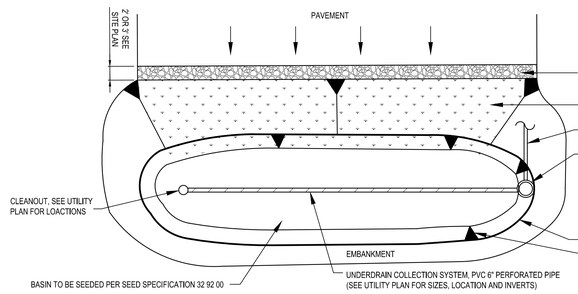
DECOMPOSED ORGANIC MATTER: 1 PART (LEAF COMPOST, PINE BARK FINES, MULCH FINES, ETC.)

BASED ON TESTING, EXPERIENCE AND NATIVE SOIL CHARACTERISTICS THE SAND, SOIL OR ORGANIC MATTER CONTENT CAN BE ADJUSTED TO ACHIEVE THE DESIRED MIX. THE SOIL MIX SUPPLIER SHOULD PRE-TEST THE SAND, NATIVE SOIL AND ORGANIC MATTER TO EVALUATE THEIR PHOSPHORUS CONTENT. THE SOIL MIX SUPPLIER MUST PRESENT A SOIL TEST SHOWING THE PLANTING MEDIA MEETS THE CRITERIA ABOVE.

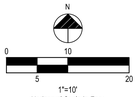
4. FILTER LAYER - THREE INCHES OF CLEAN MEDIUM CONCRETE SAND (ASTM C-33) OVER THREE INCHES OF #8 OR #78 STONE (PEA GRAVEL).
5. GRAVEL LAYER AND UNDERDRAIN SYSTEM - A GRAVEL BED CONSISTING OF #57 WASHED STONE (EXCLUDING RECYCLED CONCRETE) SHALL BE PROVIDED AS DRAINAGE MEDIA AND BEDDING MATERIAL FOR UNDERDRAIN PIPES. THE GRAVEL LAYER SHALL GENERALLY BE 10-12" THICK WITH A MINIMUM OF 3-IN. OF GRAVEL PROVIDED ABOVE AND BELOW UNDERDRAIN PIPES.
6. PLANTING SOIL MEDIA STOCK TO BE USED ON PROJECT SHALL BE TESTED AND CERTIFIED BY A CERTIFIED LABORATORY TO INSURE THEY MEET THE REQUIRED SPECIFICATIONS.
7. PLANTING SOIL MEDIA SHALL BE PLACED IN 12 INCH LIFTS AND LIGHTLY SETTLED BY SOAKING WITH WATER. THIS SHALL BE COMPLETED AT A STEADY RATE, DO NOT RUSH.
8. CONTRACTOR SHALL PLACE ADDITIONAL PLANTING SOIL MEDIA TO ACCOUNT FOR SETTLEMENT. DO NOT COMPACT DURING OR AFTER INSTALLATION.

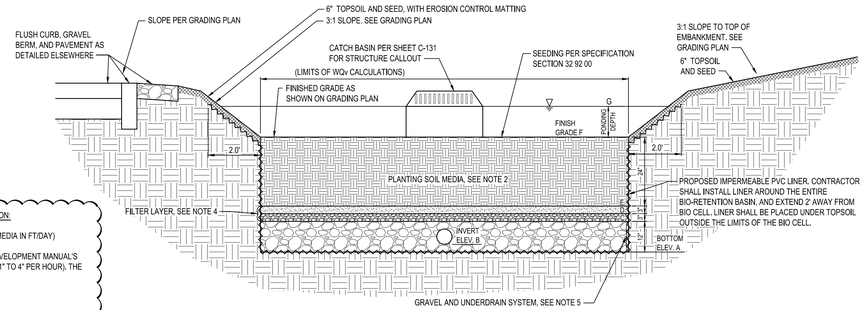
	MINIMUM REQUIRED FILTER BED AREA (SF)	PROVIDED FILTER BED AREA (SF)	TREATED/ PROVIDED WQv (CF)	CREDITED WQv BASED ON TRIBUTARY WATERSHED TO BMP (CF)
BASIN A	3,877	5,207	5,623	5,621

NOTE:
1. WQv REQUIRED FOR THE ENTIRE CAMPUS PROJECT AREAS AS REDEVELOPMENT = 5,621 CF. TOTAL PROVIDED = 5,623 CF.



TYPICAL BIORETENTION AREA SCHEMATIC (PLAN)





PLAN ELEV.S	BASIN "A"
G	1059.52
F	1058.50
E	1056.50
D	1056.25
C	1056.00
B	1055.25
A	1055.00

BIORETENTION FILTER MEDIA DRAWDOWN CALCULATION:

WQv/(AREA OF FILTER MEDIA*INFILTRATION RATE OF MEDIA IN FT/DAY)

BASED ON USING THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL'S RECOMMENDATIONS FOR SOIL MEDIA PERMEABILITY (1" TO 4" PER HOUR), THE DRAWDOWN CALCULATION RANGE IS AS FOLLOWED:

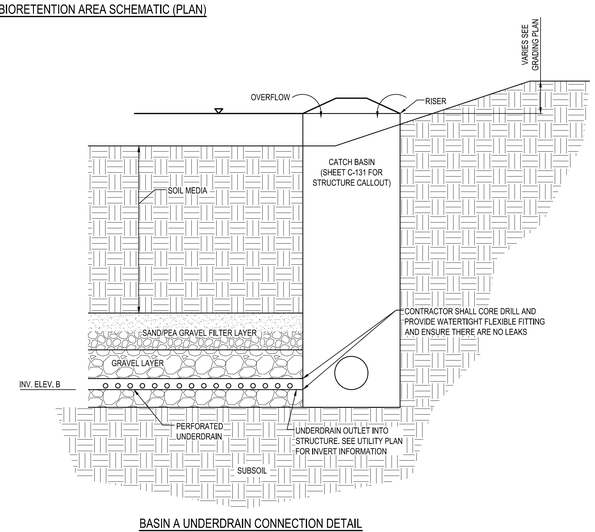
1" PER HOUR

5,621 C.F. / (5,207 S.F. * 2 FT/DAY) = 0.539 DAY = 12.94 HRS

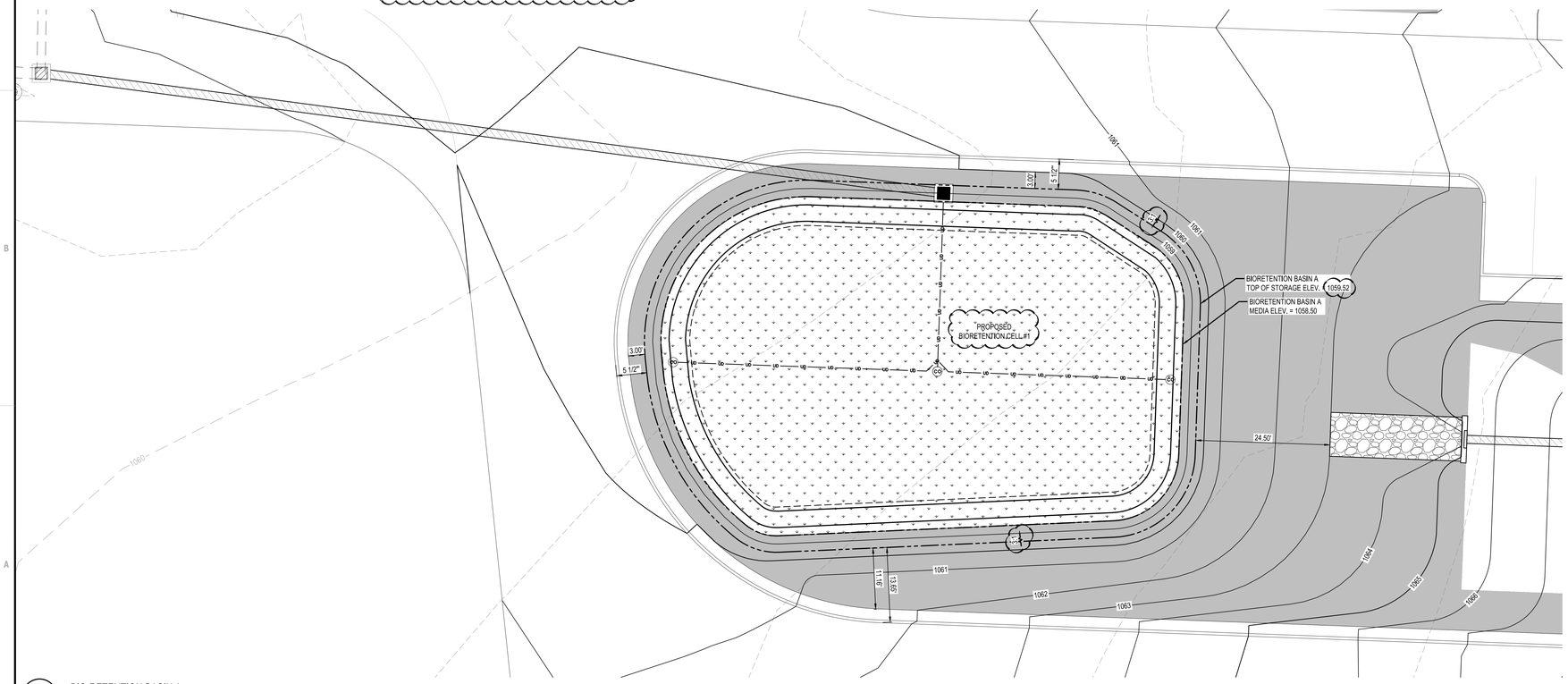
4" PER HOUR

5,621 C.F. / (5,207 S.F. * 8 FT/DAY) = 0.135 DAY = 3.24 HRS

DRAWDOWN RATES MEET THE 24 HOUR MAXIMUM DRAWDOWN REQUIREMENT.



BASIN A UNDERDRAIN CONNECTION DETAIL



A1 BIO-RETENTION BASIN A
1"=10'

LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

NORTH AMERICAN GREEN, ROLLMAX VMAX SC-250 PERMANENT EROSION CONTROL MATTING ANCHORED WITH ARMORMAX ENGINEERED ANCHORS.

BIORETENTION BASIN FILTER BED AREA.

GPD GROUP
Gloos, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2101

REV.-	DATE	DESCRIPTION
1	03/03/2023	ADDENDUM 01

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

WATER QUALITY PLAN

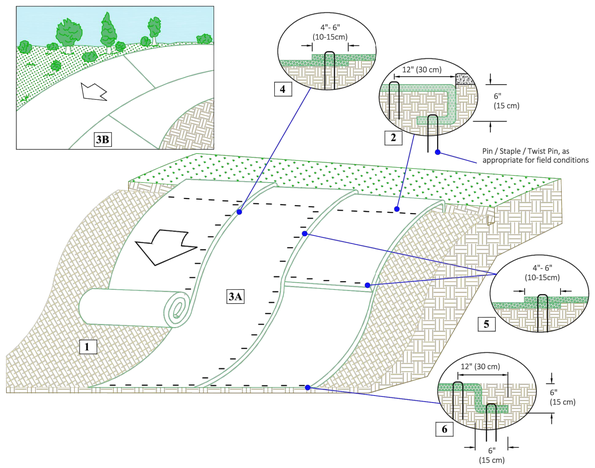
ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	TJW

JOB NO. 2020377.05

C-012

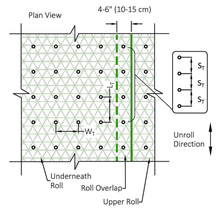
Drawing Name: O:\2020\2020377\05 - Sanitation Building\4_Working Files\00_CAD (2020)\CI\Sheets\2020377.05 SWPP Planning
March 2, 2023 7:28 PM - twright



Instructions

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.
2. Begin at the top of the slope by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench. Anchor the RECPs with a row of staples/stakes/pins spaced at S_T apart in the bottom of the trench. Backfill and compact the trench after stapling and fold the roll over downslope. Secure RECPs over compacted soil with a row of staples/stakes/pins spaced at S_T apart across the width of the RECPs.
3. Roll the RECPs (A) down or (B) horizontally across the slope. When laying RECPs horizontal, a maximum of two roll widths or 16 feet, whichever is less, may be applied up the slope. If two roll widths or 16 ft is insufficient to cover the slope, material shall be placed vertically. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes/pins in appropriate locations as shown in the staple pattern guide. RollMax RECPs and ECBs should utilize Staple Pattern C, TRMs and VMax materials should utilize Staple Pattern D.
4. The edges of parallel RECPs must be stapled with approximately 4" - 6" (10 - 15 cm) overlap.
5. Consecutive RECPs spliced down the slope must overlapped with the upstream mat atop the downstream mat (shingle style). The overlap should be 4" - 6" (10 - 15 cm).
6. At the terminal end, secure each mat across the width with a row of staples/stakes/pins spaced at S_T. If exposed to flow, foot traffic, wind uplift or other disruption, trench the terminal end in as shown in detail.
7. Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may by used where staples or twist pins are refused, provided the minimum pullout requirements are met. Bio-degradable fasteners shall not be used with TRM or HPTRM materials.

Staple Pattern Guide



○ Pin / Staple / Twist Pin, as appropriate for field conditions

	Staple Pattern	
Dimension	C	D
W_T	30" (75 cm)	22" (55 cm)
L_T	30" (75 cm)	22" (55 cm)
S_T	18" (45 cm)	18" (45 cm)
Nominal Frequency	1.7 / SY	3.0 / SY
Application	ECB (Degradable)	TRM (Permanent)
Required Fastener	Min. 20# pullout	Min. 20# pullout

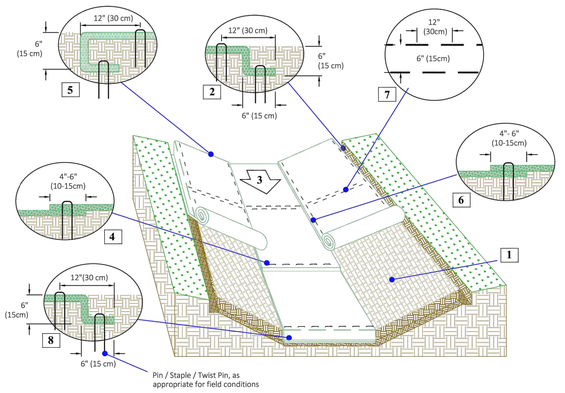
*Note: Staple Pattern A and B used prior to 8/2019 have been discontinued.

WESTERN GREEN | WESTERN EXCELSIOR | EAST COAST EROSION CONTROL | NORTH AMERICAN GREEN

Project: Standard Slope/Rainfall Layout - RECP

Shown: Isometric View of Slope, Fastener Placement, Trenching and Overlap, Some Fasteners and Vegetation Omitted for Clarity, NTS

Date: 5/3/2022
WG: 886-540-9810
www.westerngreen.com
www.westernexcelsior.com
www.nagreen.com



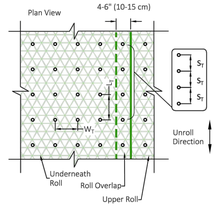
CRITICAL POINTS
A. Overlaps and Seams
B. Projected Water Line
C. Channel Bottom/Side Slope Vertices

NOTES:
*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

Instructions

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.
2. Begin at the top of the channel by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench with approximately 12" (30 cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes/pins approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12" (30 cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes/pins spaced approximately 12" (30 cm) apart across the width of the RECPs.
3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes/pins in appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4"- 6" (10 - 15 cm) overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes/pins spaced at S_T apart in a 6" (15 cm) deep X 6"(15 cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent RECPs must be overlapped approximately 4"- 6" (10 - 15 cm) and secured with staples/stakes/pins at S_T.
7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 -12m) intervals. Use a double row of staples staggered 6" (15 cm) apart and 12" (30 cm) on center over entire width of the channel.
8. The terminal end of the RECPs must be anchored with a row of staples/stakes/pins spaced at S_T apart in a 6" (15 cm) deep X 6" (15 cm) wide trench. Backfill and compact the trench after stapling.
9. Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may by used where staples or twist pins are refused, provided the minimum pullout requirements are met. Bio-degradable fasteners shall not be used with VMax (TRM) or TMax (HPTRM) materials.

Staple Pattern Guide



○ Pin / Staple / Twist Pin, as appropriate for field conditions

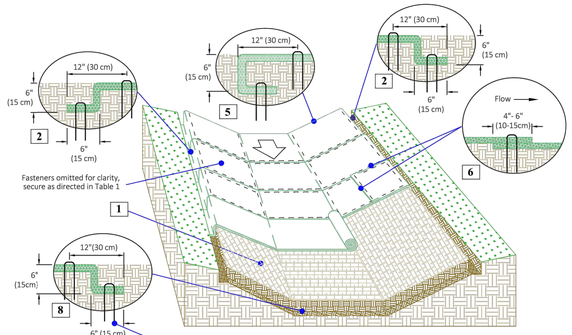
	Staple Pattern
Dimension	E
W_T	20" (50 cm)
L_T	20" (50 cm)
S_T	18" (45 cm)
Nominal Frequency	3.8 / SY
Required Fastener	Min. 20# Pullout

WESTERN GREEN | WESTERN EXCELSIOR | EAST COAST EROSION CONTROL | NORTH AMERICAN GREEN

Project: Standard Channel Layout, Unroll w/Flow - RECP

Shown: Isometric View of Channel, Fastener Placement, Trenching and Overlap, Some Fasteners and Vegetation Omitted for Clarity, NTS

Date: 5/3/2022
WG: 886-540-9810
www.westerngreen.com
www.westernexcelsior.com
www.nagreen.com



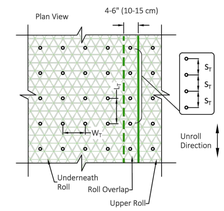
CRITICAL POINTS
A. Overlaps and Seams
B. Projected Water Line
C. Channel Bottom/Side Slope Vertices

NOTES:
*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

Instructions

1. Prepare soil (fig. 1) before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation. Apply seed and amendments to the compacted soil.
2. Dig anchor trench, 6" (15 cm) deep X 6" (15 cm) wide, at the upstream most edge of installation across the channel. Begin at the top of the channel by unrolling the RECP across the channel, perpendicular to the direction of flow, cut to fit. Carefully flip the RECP panel upstream, leaving it upside down. Place the upside down leading edge in the trench. Anchor the RECP panel with a row of fasteners spaced at S_T apart in the bottom of the trench. Backfill and compact the trench after fastening. With the RECP secured in the backfilled trench, flip the RECP panel over, right side up, over the backfill. The end result should mimic fig. 2. Secure RECP just downstream of trench with a row of fasteners located approximately 12" (30 cm) downstream from the trench, spaced at S_T.
3. Roll subsequent RECP panels across the channel, fitting the downstream panel under the upstream panel. RECPs shall be unrolled with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing twist pins in appropriate locations as shown in the pin pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4"- 6" (10 - 15 cm) overlap, see fig.6. Secure overlaps as shown.
5. Adjacent RECPs must be overlapped approximately 4"- 6" (10 - 15 cm) and secured with fasteners at S_T.
6. The terminal end of the RECPs must be anchored with a row of fasteners spaced at S_T apart in a 6" (15 cm) deep X 6" (15 cm) wide trench (minimum). Backfill and compact the trench after stapling.
7. Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may by used where staples or twist pins are refused, provided the minimum pullout requirements are met. Bio-degradable fasteners shall not be used with VMax (TRM) or TMax (HPTRM) materials.

Staple Pattern Guide



○ Pin / Staple / Twist Pin, as appropriate for field conditions

	Staple Pattern
Dimension	E
W_T	20" (50 cm)
L_T	20" (50 cm)
S_T	18" (45 cm)
Nominal Frequency	3.8 / SY
Required Fastener	Min. 20# Pullout

WESTERN GREEN | WESTERN EXCELSIOR | EAST COAST EROSION CONTROL | NORTH AMERICAN GREEN

Project: Standard Channel Layout, Unroll Cross Flow - RECP

Shown: Isometric View of Channel, Fastener Placement, Trenching and Overlap, Some Fasteners and Vegetation Omitted for Clarity, NTS

Date: 5/3/2022
WG: 886-540-9810
www.westerngreen.com
www.westernexcelsior.com
www.nagreen.com

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311-1073
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	02/03/2023	ADDENDUM 01

FOR REFERENCE ONLY

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

SWPP DETAILS

ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	TJW

JOB NO.
2020377.05

C-013

This document has not been reviewed by the stamping party. Therefore, the stamping party makes no representation(s) with respect to its contents, and shall not be liable for such. Any reliance on this stamp shall be at the relying party(ies)'s own risk and hereby waives any and all claim(s) related to the existence of the stamp or otherwise.

BENCHMARKS:
STATE PLANE GRID NORTH, NAD 83 (2011),
OHIO NORTH ZONE.
ELEVATIONS ARE NAVD 88, GEOID 18.
TIED BY GPS TO THE O.D.O.T. VRS.

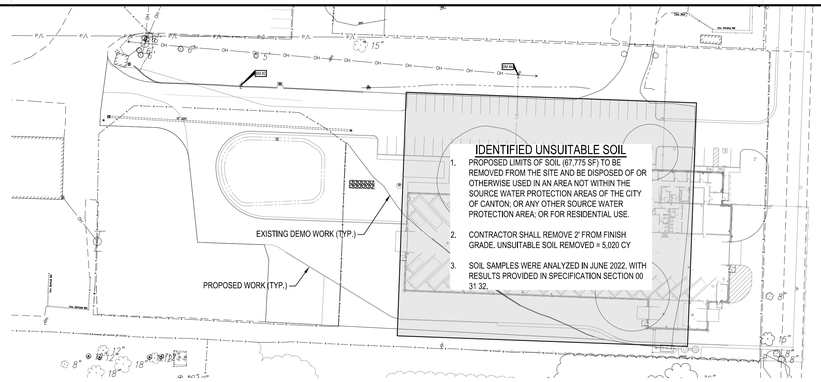
BENCHMARK #2 - MAG SPIKE ON SOUTH SIDE OF UTILITY POLE
N 425092, E 2289710
ELEVATION = 1060.95

BENCHMARK #4 - MAG SPIKE ON WEST SIDE OF UTILITY POLE
N 425103, E 2289980
ELEVATION = 1066.51.

BENCHMARK #6 - NORTH EAST BONNET BOLT BETWEEN VILLE & ALA
N 425232, E 2290227
ELEVATION = 1077.30.

OHIO811.org Before You Dig

UTILITIES SHOWN ON SURVEY WERE LOCATED BASED ON FIELD MARKING PROVIDED BY OUPS REQUEST #A207700537 AND #A207700538.



E2 IDENTIFIED UNSUITABLE SOIL REMOVAL LIMITS
1"=60'

LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

- EXISTING ASPHALT PAVEMENT TO BE SAWCUT AND REMOVED
- EXISTING CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED
- EXISTING GRAVEL PAVEMENT TO BE REMOVED
- EXISTING TREE LIMITS TO BE REMOVED
- DENOTES LIMITS OF SAWCUT
- DEMOLITION KEYNOTE

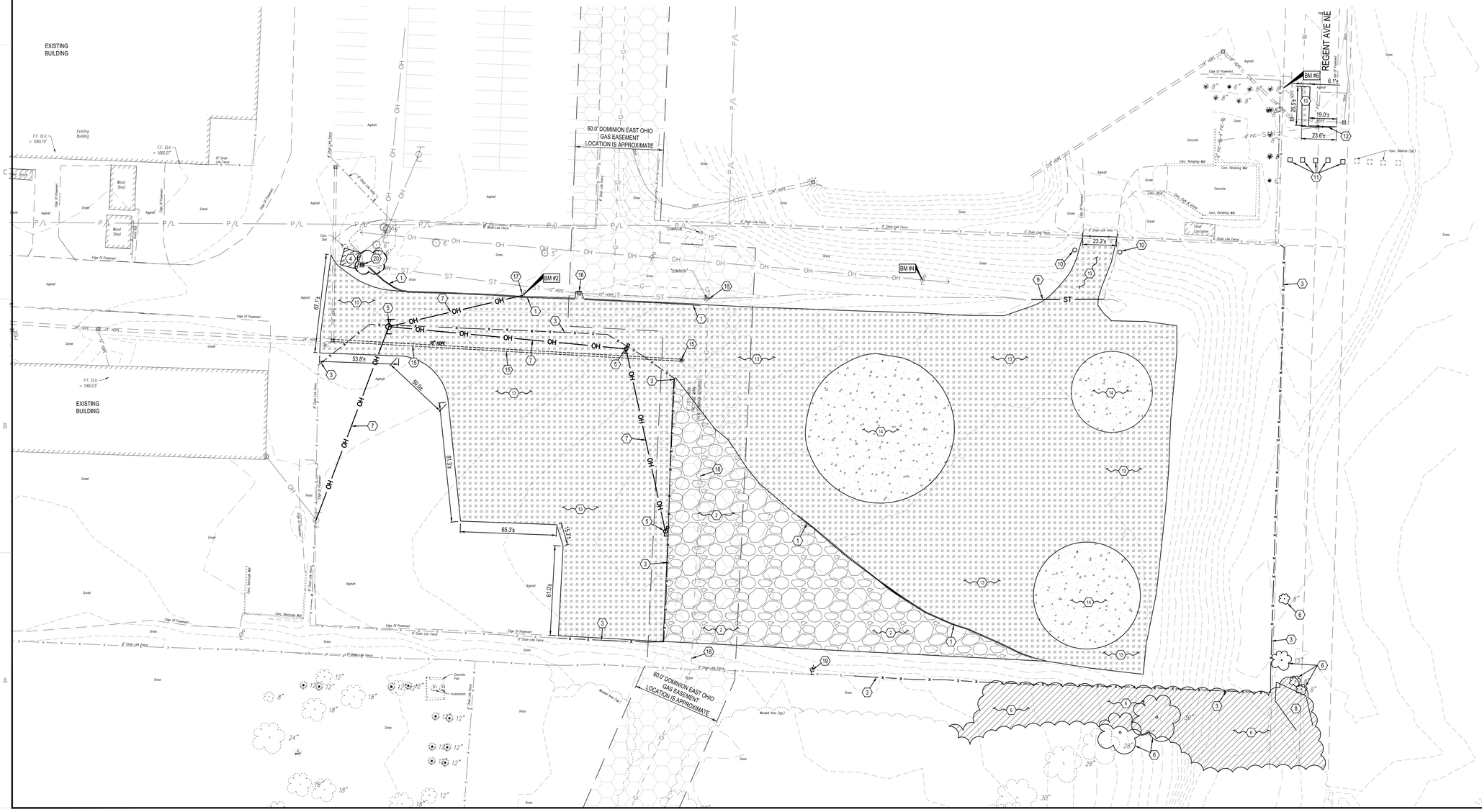
N
0 30
15 60
1"=30'
Horizontal Scale in Feet

PLAN KEYNOTES (#)

1. EXISTING ASPHALT CURB AND GUTTER TO BE REMOVED.
2. EXISTING GRAVEL PAVEMENT TO BE REMOVED.
3. EXISTING FENCE TO BE REMOVED.
4. EXISTING STRUCTURE AND APPURTENANCES TO BE REMOVED.
5. EXISTING AEP UTILITY POLE TO BE CAREFULLY REMOVED AND RELOCATED. CONTRACTOR SHALL CALL 1.800.672.2231 TO PREPARE THE WORK ORDER AND COORDINATE WITH MICHAEL BURNELL FOR THE REMOVAL AND RELOCATION. COST FOR RELOCATION WILL BE REIMBURSED AT OWNER'S EXPENSE AT TIME OF RELOCATION.
6. EXISTING TREES AND BUSHES TO BE REMOVED.
7. EXISTING OVERHEAD POWER LINE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH THE UTILITY COMPANY.
8. EXISTING PILE OF CONCRETE CONSTRUCTION DEBRIS TO BE REMOVED.
9. EXISTING 12" RCP DRIVE CULVERT TO BE CAREFULLY REMOVED AND DELIVERED PER OWNERS DIRECTION TO THE CITY.
10. EXISTING CHAINLINK FENCE GATE STOP TO BE REMOVED.
11. EXISTING CONCRETE BOLLARDS TO BE CAREFULLY REMOVED AND DELIVERED PER OWNERS DIRECTION TO THE CITY.
12. EXISTING ASPHALT TO BE SAWCUT AND REMOVED TO PROVIDE CLEAN EDGE FOR PROPOSED DRIVE CONNECTION.
13. EXISTING ASPHALT PAVEMENT AND BASE TO BE SAWCUT AND REMOVED.
14. EXISTING SALT DOME AND CONCRETE PAD/FOUNDATION BASE TO BE REMOVED, SEE ARCHITECTURAL DEMO PLAN.
15. EXISTING CATCH BASIN AND 18" STORM SEWER TO BE REMOVED.
16. EXISTING CATCH BASIN TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
17. EXISTING UTILITY POLE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
18. EXISTING 6" STEEL GAS LINE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
19. EXISTING LIGHT POLE TO BE REMOVED.
20. EXISTING CATCH BASIN TO BE REMOVED AND REPLACED.

DEMOLITION NOTE:

ALL EXISTING SITE AND SURROUNDING FEATURES SUCH AS UTILITIES, PAVEMENT, CURB, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION UNLESS NOTED OTHERWISE, OR ARE REQUIRED TO BE MODIFIED OR REMOVED FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS. ALL DISTURBED FEATURES SHALL BE RESTORED OR RELOCATED AS REQUIRED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL REPAIR/REPLACE ANY SURROUNDING FEATURES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.



GPD GROUP®
Gloos, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2101

REV.	DATE	DESCRIPTION
1	03/03/2023	ADDENDUM 01

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

DEMOLITION PLAN

ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	TJW

JOB NO.
2020377.05

C-101

Drawing Name: O:\2020\2020377\05 - Sanitation Building\x_Working Files\00_CAD (2020)\CISheets\2020377.05 Plan Demo Ant Site.dwg
Mar 01, 2023 7:30 PM - lwright

BENCHMARKS:
STATE PLANE GRID NORTH, NAD 83 (2011).
OHIO NORTH ZONE.
ELEVATIONS ARE NAVD 88, GEOID 18.
TIED BY GPS TO THE O.D.O.T. VRS.

BENCHMARK #2 - MAG SPIKE ON SOUTH SIDE OF UTILITY POLE
N 425092, E 2288710
ELEVATION = 1060.95

BENCHMARK #4 - MAG SPIKE ON WEST SIDE OF UTILITY POLE
N 425103, E 2289980
ELEVATION = 1066.51.

BENCHMARK #6 - NORTH EAST BONNET BOLT BETWEEN VILLE & ALA
N 425232, E 2290227
ELEVATION = 1077.30.

OHIO811.org Before You Dig

UTILITIES SHOWN ON SURVEY WERE LOCATED BASED ON FIELD MARKING PROVIDED BY OUPS REQUEST #A207700537 AND #A207700538.

LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

PROPOSED STANDARD DUTY ASPHALT, SEE SHEET C-501.

PROPOSED HEAVY DUTY ASPHALT, SEE SHEET C-501.

PROPOSED CONCRETE

CONSTRUCTION KEYNOTE

PROPOSED PARKING SPACE NUMBER

N

0 15 30 60

1"=30'
Horizontal Scale in Feet

PLAN KEYNOTES (#)

1. PROPOSED CONCRETE CURB, SEE SHEET C-501.
2. PROPOSED FLUSH CONCRETE CURB, SEE SHEET C-501.
3. PROPOSED CONCRETE CURB TAPER, SEE SHEET C-501.
4. PROPOSED CONCRETE CURBED WALK, SEE SHEET C-501.
5. PROPOSED CONCRETE WALK, SEE SHEET C-501.
6. PROPOSED 30' TALL FLAGPOLE WITH LIGHTS, SEE SHEET C-504 AND ELECTRICAL SHEETS. FLAG POLE FOUNDATION TO BE PER MANUFACTURERS SPECIFICATION.
7. PROPOSED HANDICAP PARKING SIGN, SEE SHEET C-501.
8. PROPOSED LANDSCAPING AREA. CONTRACTOR SHALL SEED ALL DISTURBED AREAS, SEE SHEET C-010 FOR SEEDING NOTES.
9. PROPOSED PAINTED TRANSIVERSE STRIPING, SEE SHEET C-501.
10. PROPOSED PAINTED 4" WIDE SOLID STRIPE - WHITE ON ASPHALT, YELLOW ON CONCRETE.
11. PROPOSED PAINTED INTERNATIONAL ADA SYMBOL PER ADA SPECIFICATIONS AND SHEET C-501.
12. PROPOSED ADA ACCESSIBLE RAMP PER ADA SPECIFICATIONS AND SHEET C-501.
13. PROPOSED FROST SLAB AT DOOR. SEE STRUCTURAL DRAWINGS FOR DETAIL.
14. PROPOSED 6' CHAIN LINK FENCE WITH BARBED WIRE, SEE SHEET C-501. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AS NECESSARY FOR INSTALLATION OF PROPOSED FENCE POLES AND FOUNDATIONS.
15. PROPOSED 26' ROLLING MANUAL SLIDING GATE (OR APPROVED EQUAL) WITH FUTURE ENTRANCE KEYPAD AND GATE MOTOR PER SHEET C-504.
16. PROPOSED 26' ROLLING MOTORIZED SLIDING GATE (OR APPROVED EQUAL) WITH ENTRANCE KEYPAD (NORTH SIDE) AND EXIT SENSOR LOOP (SOUTH SIDE) PER SHEET C-504.
17. PROPOSED TRAFFIC SIGN, SEE SHEET C-501.
18. PROPOSED LIFT STATION, SEE SHEET C-132.
19. PROPOSED GRAVEL BERM, SEE SHEET C-501.
20. PROPOSED 10' CONCRETE APRON, SEE SHEET C-501.
21. PROPOSED DETERRENT BOLLARD, SEE SHEET C-501.
22. PROPOSED BIORETENTION, SEE SHEET C-012.
23. PROPOSED 8' WIDE X 24' LONG ROCK CHANNEL PROTECTION, SEE SHEET C-501.
24. PROPOSED FUTURE GATE MOTOR.
25. PROPOSED MECHANICAL UNITS, SEE MECHANICAL PLANS.
26. PROPOSED LEVEL SPREADER, SEE SHEET C-504.
27. PROPOSED GENERATOR, SEE ELECTRICAL SHEETS.
28. PROPOSED TRANSFORMER, SEE ELECTRICAL SHEETS.
29. PROPOSED FREE STANDING CURB, SEE SHEET C-501.

EXISTING BUILDING

EXISTING BUILDING

60.0' DOMINION EAST OHIO GAS EASEMENT LOCATION IS APPROXIMATE

60.0' DOMINION EAST OHIO GAS EASEMENT LOCATION IS APPROXIMATE

PROPOSED SANITATION BUILDING

318.0'±

156.0'±

98.7'±

REGENT AVE NE

BM #2

BM #4

BM #6

SLIDE

GPD GROUP
Gloos, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2101

REV:	DATE	DESCRIPTION
1	03/03/2023	ADDENDUM 01

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

SITE PLAN

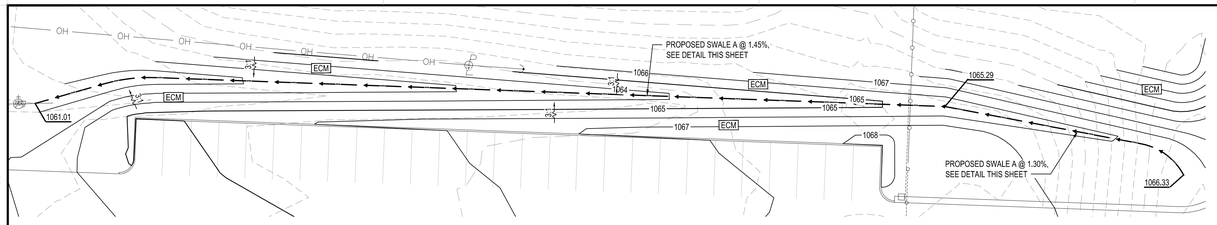
ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	TJW

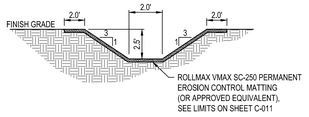
JOB NO.
2020377.05

C-111

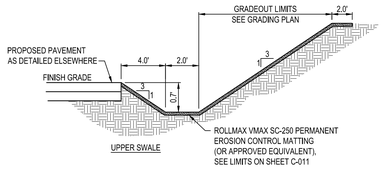
Drawing Name: O:\2020\2020377\05 - Sanitation Building\4_Working Files\00_CAD (2020)\C\Sheets\2020377.05 Plan Demo And Site.dwg
March 24, 2023 7:31 PM - twright

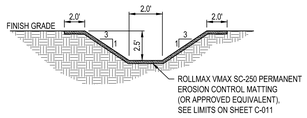


E1 SWALE A ENLARGEMENT PLAN
1"=20'

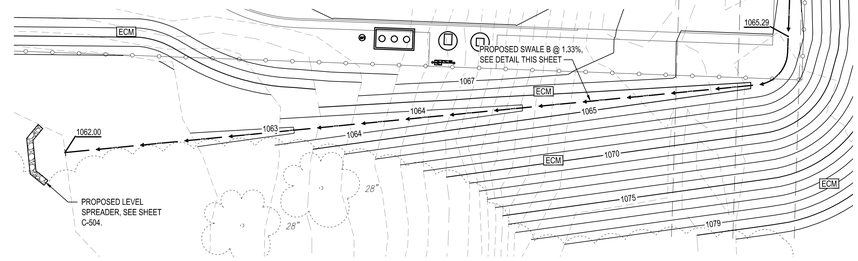


E4 SWALE A DETAIL
N.T.S.

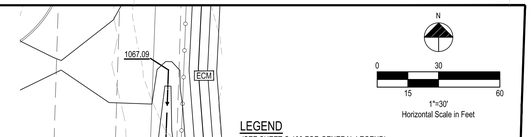




D2 SWALE B DETAIL
N.T.S.



D4 SWALE B ENLARGEMENT PLAN
1"=20'



LEGEND

(SEE SHEET C-100 FOR GENERAL LEGEND)

- 000 — PROPOSED CONTOUR
- XXX XX+ — EXISTING SPOT ELEVATION/ MATCH EXISTING GRADE
- XXX.XX — PROPOSED ELEVATION @ FINISHED GROUND ELEVATION
- T=XXX.XX / B=XXX.XX — TOP OF CURB ELEVATION / BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION
- FT=XXX.XX / FB=XXX.XX — FREESTANDING TOP OF CURB ELEVATION / FREESTANDING BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION ON BOTH SIDES
- 0.0% — PROPOSED DRAINAGE SLOPE & DIRECTION
- PROPOSED DRAINAGE SWALE
- ECM — PERMANENT EROSION CONTROL MATTING, SEE SHEET C-011 FOR LIMITS

BENCHMARKS:

STATE PLANE GRID NORTH, NAD 83 (2011),
OHIO NORTH ZONE.
ELEVATIONS ARE NAVD 88, GEOID 18.
TIED BY GPS TO THE O.D.O.T. VRS.

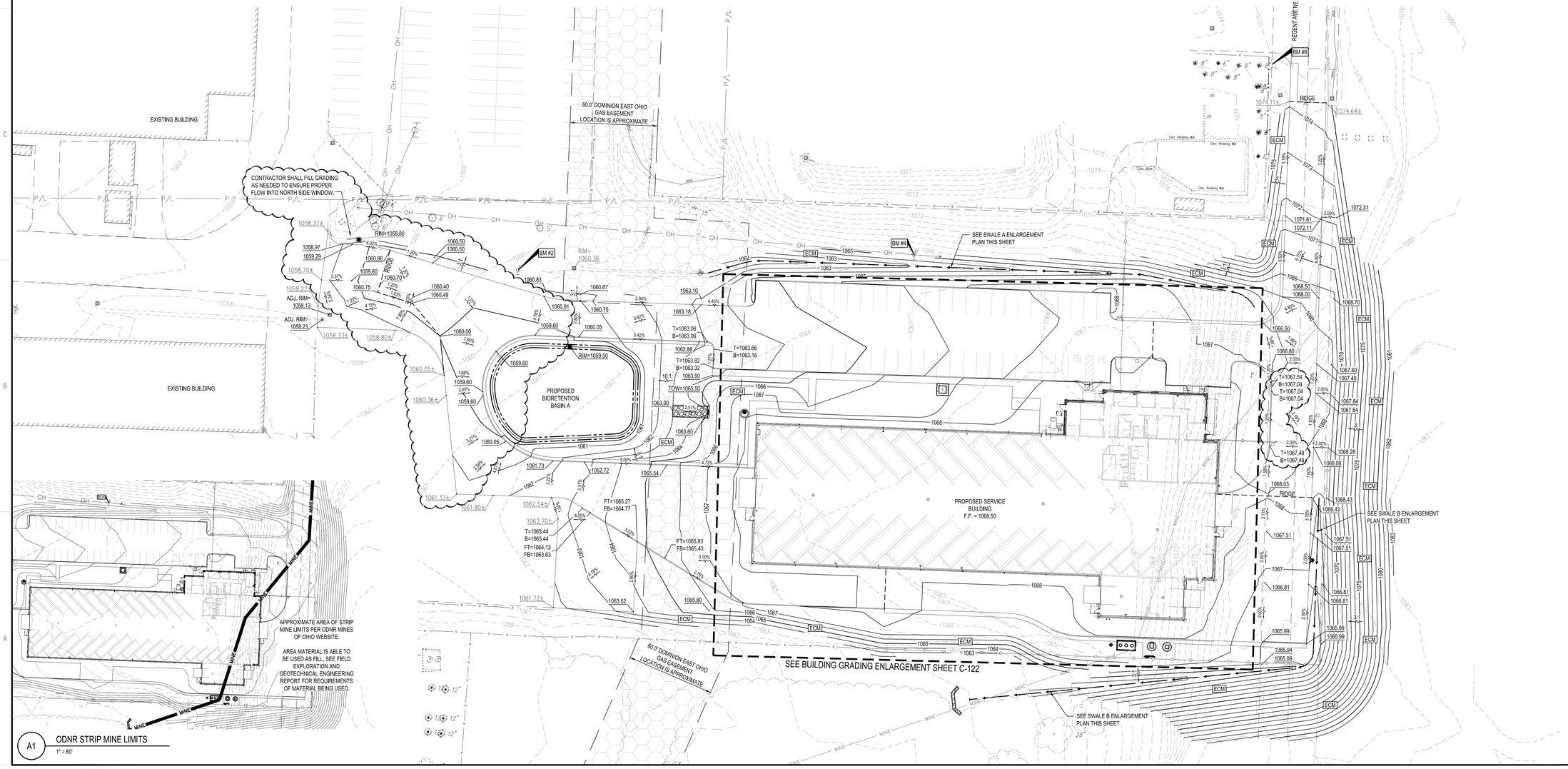
BENCHMARK #2 - MAG SPIKE ON SOUTH SIDE OF UTILITY POLE
N 425092, E 2289710
ELEVATION = 1060.95

BENCHMARK #4 - MAG SPIKE ON WEST SIDE OF UTILITY POLE
N 425103, E 2289980
ELEVATION = 1066.51.

BENCHMARK #6 - NORTH EAST BONNET BOLT BETWEEN VILLE & ALA
N 425232, E 2290227
ELEVATION = 1077.30.

OHIO811.org Before You Dig

UTILITIES SHOWN ON SURVEY WERE LOCATED BASED ON FIELD MARKING PROVIDED BY OUPS REQUEST #A207700537 AND #A207700538.



A1 ODNR STRIP MINE LIMITS
1" = 60'

APPROXIMATE AREA OF STRIP MINE LIMITS PER ODNR MINES OF OHIO WEBSITE.

AREA MATERIAL IS ABLE TO BE USED AS FILL, SEE FIELD EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT FOR REQUIREMENTS OF MATERIAL BEING USED.

GPD GROUP
Gbura, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2101

REV.	DATE	DESCRIPTION
1	03/03/2023	ADDENDUM 01

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

GRADING PLAN

ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	TJW

JOB NO.
2020377.05

C-121

Drawing Name: O:\2020\2020377\05 - Sanitation Building\4_Working Files\00_CAD (2020)\CiSheets\2020377.05 Plan Grading.dwg
March 02, 2023 7:29 PM - twright

OHIO811.org Before You Dig

UTILITIES SHOWN ON SURVEY WERE LOCATED BASED ON FIELD MARKING PROVIDED BY OUPS REQUEST #A207700537 AND #A207700538.

LEGEND

(SEE SHEET C-100 FOR GENERAL LEGEND)

- 000 — PROPOSED CONTOUR
- XXX.XX‡ — EXISTING SPOT ELEVATION/ MATCH EXISTING GRADE
- XXX.XX — PROPOSED ELEVATION @ FINISHED GROUND ELEVATION
- T=XXX.XX / B=XXX.XX — TOP OF CURB ELEVATION / BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION
- FT=XXX.XX / FB=XXX.XX — FREESTANDING TOP OF CURB ELEVATION / FREESTANDING BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION ON BOTH SIDES
- 0.0% — PROPOSED DRAINAGE SLOPE & DIRECTION
- LIMITS OF ADA ROUTING

N

0 5 10 20

1"=10'
Horizontal Scale in Feet

PROPOSED SERVICE BUILDING F.F. = 1068.50

RIDGE

FLUSH CURB

GPD GROUP
Gloos, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2101

REV.	DATE	DESCRIPTION
1	03/03/2023	ADDENDUM 01

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

BUILDING GRADING ENLARGEMENT

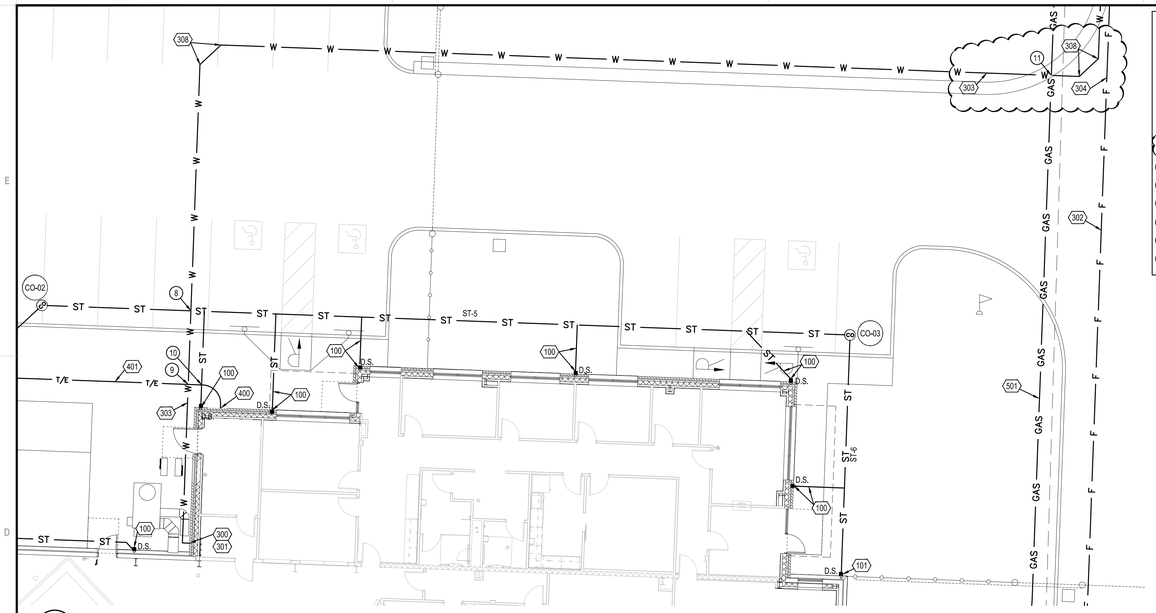
ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	TJW

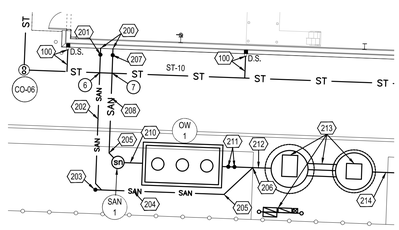
JOB NO.
2020377.05

C-122

Drawing Name: O:\2020\2020377\05 - Sanitation Building\r4_Working Files\00_CAD (2020)\CiSheets\2020377.05 Plan Grading.dwg
March 3, 2023 7:30 PM - twright



D1 UTILITY ENLARGEMENT #1
N.T.S.



D1 UTILITY ENLARGEMENT #2
N.T.S.

UTILITY CROSSINGS

GENERAL UTILITY CROSSING NOTES:

1. CONTRACTOR SHALL COORDINATE ALL CROSSINGS/RELOCATIONS WITH THE RESPECTIVE UTILITY COMPANIES.
2. EXISTING AND PROPOSED PRESSURIZED (WATER & GAS) AND SECONDARY (ELECTRIC & COMMUNICATIONS) UTILITIES SHALL DEFLECT TO MAINTAIN 18" CLEAR AT SANITARY OR STORM SEWER CROSSINGS WHEN CONFLICTS OCCUR.
3. WHEN A PROPOSED PRESSURIZED/SECONDARY UTILITY IS IN CROSSING CONFLICT WITH AN EXISTING PRESSURIZED/SECONDARY UTILITY, THE PROPOSED UTILITY SHALL DEFLECT TO OBTAIN MINIMUM CLEARANCE.
4. CONTRACTOR SHALL FIELD LOCATE EXISTING PRESSURIZED/SECONDARY UTILITIES AT PROPOSED CROSSINGS.
5. FOR CLEARANCE BETWEEN GRAVITY PIPES OF LESS THAN 18", THE CONTRACTOR SHALL INSTALL CONCRETE ENCASEMENT AS DETAILED.
6. WATER SERVICE LINE AND FIRE LINE SHALL MAINTAIN 18" MINIMUM VERTICAL CLEARANCE FROM ALL UTILITIES.

1. PROP. ELECTRIC (SEE NOTES ABOVE)
2. PROP. 8" FIRE LINE (SEE NOTES ABOVE)
3. PROP. 6" FDC LINE (SEE NOTES ABOVE)
4. PROP. 1.5" FORCEMAIN (SEE NOTES ABOVE)
5. PROP. GAS (SEE NOTES ABOVE)
6. EX. 8" SANITARY = 1070.36
7. PROP. 8" WATER (SEE NOTES ABOVE)
8. EX. 8" SANITARY = 1070.31
9. PROP. 8" SANITARY = 1066.78
10. PROP. 8" SANITARY = 1063.68
11. PROP. 8" STORM = 1064.78
12. PROP. 6" FDC LINE (SEE NOTES ABOVE)
13. PROP. 6" SANITARY = 1063.68
14. PROP. 3" WATER (SEE NOTES ABOVE)
15. PROP. 8" STORM = 1064.99
16. PROP. ELECTRIC (SEE NOTES ABOVE)
17. PROP. 3" WATER (SEE NOTES ABOVE)
18. PROP. ELECTRIC (SEE NOTES ABOVE)
19. PROP. 8" STORM = 1066.00
20. PROP. GAS (SEE NOTES ABOVE)
21. PROP. 3" WATER (SEE NOTES ABOVE)

LEGEND

(SEE SHEET C-001 FOR GENERAL LEGEND)

- ST — PROPOSED STORM SEWER (12" AND SMALLER)
- SAN — PROPOSED SANITARY SEWER
- W — PROPOSED WATER SERVICE
- GAS — PROPOSED GAS SERVICE
- E/T — PROPOSED UNDERGROUND ELECTRIC AND TELEPHONE SERVICE
- D.S. ■ — PROPOSED DOWNSPOUT
- A # — APPURTENANCES
- # — UTILITY CONSTRUCTION KEYNOTE

N

0 15 30 60

1"=30'
Horizontal Scale in Feet

AS-BUILT

CONTRACTOR SHALL PROVIDE NORTHING, EASTING, AND ELEVATION OF ALL PROPOSED UTILITIES. CONTRACTOR SHALL PROVIDE ASBUILT INFORMATION ON A SIGNED AND SEALED PLAN BY A REGISTERED SURVEYOR.

OIL WATER SEPARATOR

1. GARAGE AREA REQUIRES 277.16 CF AND WASH BAY REQUIRES 20.7 CF FOR A TOTAL STORAGE VOLUME OF 298 CF OR 2230 GALLONS, A 2500 GALLON OIL AND WATER SEPARATOR SHALL BE PROVIDED.
2. CONTRACTOR / PRECASTER SHALL SUBMIT SHOP DRAWING TO TOM DAVIS AT STARK COUNTY SANITARY FOR APPROVAL PRIOR TO ORDERING AND CONSTRUCTING.

PLAN KEYNOTES

STORM

100. PROPOSED 6" DOWNSPOUT COLLECTOR LINE @ 2.00% MINIMUM WITH WYE. 6" INV. = 1066.25 AT BUILDING. CONTRACTOR SHALL PROVIDE A WYE CONNECTION WHERE 6" COLLECTOR LINES TIE INTO 8" AND 12" STORM SEWERS.
101. 8" INV. = 1066.25 AT BUILDING.
102. PROPOSED 32 L.F. OF 6" PERFORATED PVC @ 0.00%.
103. PROPOSED 48 L.F. OF 6" PERFORATED PVC @ 0.00%.
104. PROPOSED 45 L.F. OF 6" PERFORATED PVC @ 0.00%.
105. PROPOSED DOUBLE WYE, SEE SHEET C-502.
106. PROPOSED CLEANOUT IN BIORETENTION, SEE SHEET C-502. 6" INV=1055.25.

SANITARY

200. PROPOSED 6" BUILDING INV. = 1063.75
201. PROPOSED PAVEMENT CLEANOUT, SEE SHEET C-502 AND WYE CONNECTION SHEET C-502. 6" INV=1063.74.
202. PROPOSED 23 L.F. OF 6" PVC SANITARY SEWER @ 1.50%.
203. PROPOSED CLEANOUT, SEE SHEET C-502 AND WYE CONNECTION SHEET C-502. 6" INV=1063.35.
204. PROPOSED 27 L.F. OF 6" PVC SANITARY SEWER @ 1.50%.
205. PROPOSED 45° BEND.
206. PROPOSED 6" WYE. 6" INV. = 1063.00.
207. PROPOSED PAVEMENT CLEANOUT, SEE SHEET C-502 AND WYE CONNECTION SHEET C-502. 6" INV=1063.74.
208. PROPOSED 18 L.F. OF 6" PVC SANITARY SEWER @ 1.88%.
209. PROPOSED FORCEMAIN CONNECTION AT EXISTING SANITARY MANHOLE, SEE SHEET C-132.
210. PROPOSED 4 L.F. OF 6" PVC SANITARY SEWER @ 2.50%.
211. PROPOSED CLEANOUTS PER OIL AND WATER SEPARATOR DETAIL, SEE SHEET C-503.
212. PROPOSED 6 L.F. OF 6" PVC SANITARY SEWER @ 2.00%.
213. PROPOSED LIFT STATION, SEE SHEET C-132 AND C-133.
214. PROPOSED 45° SAN CLEAN OUT, SEE SHEET C-502 AND C-132.
215. PROPOSED CONNECTION TO EXISTING SANITARY MANHOLE, SEE PROFILE ON SHEET C-132.

WATER

WATER SERVICE LINE AND FIRE LINE SHALL NOT BE BURIED GREATER THAN 5' FROM PROPOSED FINISH GRADE, UNLESS WATER LINE IS BEING DEFLECTED AROUND EXISTING / PROPOSED UTILITY LINE TO MAINTAIN 18" MINIMUM VERTICAL CLEARANCE.

300. PROPOSED WATER CONNECTION. COORDINATE WITH PLUMBING PLANS.
301. PROPOSED WATER METER AND BACKFLOW PREVENTOR INSIDE BUILDING PER CITY OF CANTON STANDARDS AND SPECIFICATIONS. BACKFLOW PREVENTOR SHALL BE LOCATED AFTER THE METER.
302. PROPOSED 375 L.F. 6" C909 WATER SERVICE LINE. CONTRACTOR SHALL CAP END PER CITY OF CANTON STANDARDS AND SPECIFICATIONS.
303. PROPOSED 400 L.F. 4" C909 WATER SERVICE LINE.
304. PROPOSED 66 L.F. 6" C909 FIRE SERVICE LINE TO STANDALONE FDC.
305. PROPOSED STANDALONE FDC WITH SIGN. SEE SHEET C-502.
306. PROPOSED 4" WATER SERVICE VALVE PER CITY OF CANTON STANDARDS AND SPECIFICATIONS.
307. PROPOSED WATER SERVICE TAP TO EXISTING WATER MAIN WITH A CUT-IN SLEEVE SMITH BLAIR 441 SLEEVES WITH #316 SS BOLTS AND A 6"x6"x4" TEE PER CITY OF CANTON STANDARDS AND SPECIFICATIONS.
308. PROPOSED 45° BEND WITH THRUST BLOCKING PER CANTON STANDARDS AND SPECIFICATIONS AND SHEET C-503.
309. PROPOSED FIRE LINE CONNECTION. COORDINATE WITH PLUMBING PLANS.

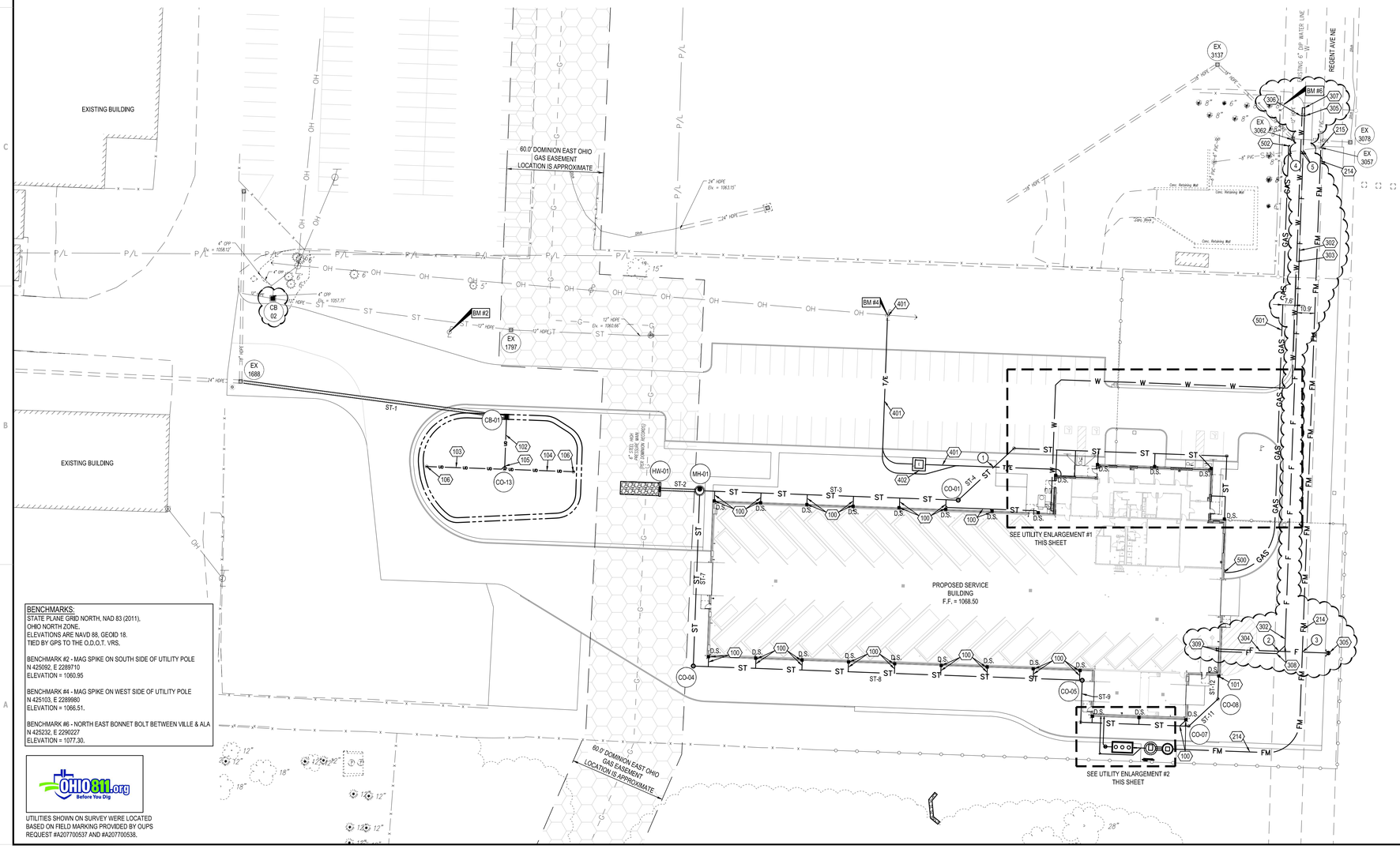
ELECTRIC AND COMMUNICATIONS

400. PROPOSED ELECTRIC METER PER ELECTRIC COMPANY SPECIFICATIONS, SEE BUILDING DRAWINGS FOR EXACT LOCATION. ELECTRIC SERVICE LINE TO BE COORDINATED WITH THE ELECTRIC COMPANY.
401. PROPOSED ELECTRIC AND TELECOMMUNICATIONS SERVICE LINES, SEE ELECTRICAL PLANS.
402. PROPOSED TRANSFORMER, SEE ELECTRICAL PLANS.

GAS

GAS LINE SHALL NOT BE BURIED GREATER THAN 5' FROM PROPOSED FINISH GRADE, UNLESS WATER LINE IS BEING DEFLECTED AROUND EXISTING / PROPOSED UTILITY LINE TO MAINTAIN 18" MINIMUM CLEARANCE.

500. PROPOSED GAS METER PER GAS COMPANY SPECIFICATIONS. SEE BUILDING DRAWINGS FOR EXACT LOCATION. GAS SERVICE LINE TO BE COORDINATED WITH THE GAS COMPANY.
501. PROPOSED 283 L.F. GAS SERVICE TO END OF EXISTING ROAD. GAS CONNECTION TO BE COORDINATED WITH THE GAS COMPANY.
502. CONTRACTOR TO COORDINATE WITH GAS COMPANY INSTALLATION OF PROPOSED GAS LINE TO EXISTING SERVICE LINE DOWN REGENT AVE.



PROPOSED HEADWALLS

Structure Name	Structure Details
HW-01	PROPOSED FULL HEIGHT HEADWALL (SEE SHEET C-502) 15" HDPE INV (E)=1063.60

Pipe Table

Pipe Name	Design
ST-1	166 LF OF 18" HDPE Pipe @ 0.56%
ST-2	24 LF OF 15" HDPE @ 1.03%
ST-3	160 LF OF 12" HDPE @ 0.50%
ST-4	47 LF OF 8" PVC Pipe @ 0.50%
ST-5	132 LF OF 8" PVC Pipe @ 0.50%
ST-6	39 LF OF 8" PVC Pipe @ 1.80%
ST-7	109 LF OF 12" HDPE @ 0.48%
ST-8	241 LF OF 12" HDPE @ 0.50%
ST-9	26 LF OF 8" PVC Pipe @ 0.50%
ST-10	67 LF OF 8" PVC Pipe @ 0.50%
ST-11	25 LF OF 8" PVC Pipe @ 0.50%
ST-12	14 LF OF 8" PVC Pipe @ 0.50%

EXISTING STRUCTURES

STRCT. ID	STRUCTURE DETAILS
EX 1658	EXISTING CATCH BASIN RIM = 1057.70 12" HDPE (W) = 1054.90 12" HDPE (E) = 1054.90
EX 1688	EXISTING CATCH BASIN RIM = 1057.92 18" HDPE (N) = 1054.32 ~~18" HDPE (E) = 1054.32~~ (REMOVED) 24" HDPE (W) = 1054.32 PROP. 12" HDPE (W) = 1054.32
EX 1797	EXISTING CATCH BASIN RIM = 1060.29 12" HDPE (W) = 1057.39 12" HDPE (E) = 1057.69
EX 2527	EXISTING SANITARY MANHOLE RIM = 1076.86 6" PVC (N) = 1070.61 6" PVC (S) = 1070.61 8" PVC (E) = 1070.61
EX 3057	EXISTING SANITARY MANHOLE RIM = 1074.45 8" PVC (N) = 1070.25 8" PVC (W) = 1070.25 PROP. 1.5" DR 9 HDPE (S) = 1070.45
EX 3137	EXISTING CATCH BASIN RIM = 1073.50 18" HDPE (W) = 1066.30 18" HDPE (SE) = 1066.30
EX 3062	EXISTING CATCH BASIN RIM = 1073.20 18" HDPE (NW) = 1067.65 12" HDPE (N) = 1067.90 12" HDPE (E) = 1067.90
EX 3078	EXISTING CATCH BASIN RIM = 1073.04 12" HDPE (W) = 1070.54

PROPOSED STRUCTURE TABLE

Structure Name	Structure Details
CB-01	PROPOSED CONTROL STRUCTURE (SEE SHEET C-502) RIM = 1059.50 6" PVC Pipe INV (S)=1059.25 18" HDPE Pipe INV (W)=1059.25
CB-02	PROPOSED ODOT 2-2A CATCH BASIN (PER ODOT STD. DWG CB 2-2A) RIM=1058.80 WINDOW (N) = 1058.30 EX. INV. 12" HDPE (W,E) = 1054.90
CO-01	PROPOSED 12" HYDRASTAR DRAIN BASIN (OR APPROVED EQUAL) (SEE SHEET C-504) RIM = 1067.78 12" HDPE INV (W)=1064.65 8" PVC Pipe INV (NE)=1064.65
CO-04	PROPOSED 12" TRAFFIC RATED NYLOPLAST DRAIN BASIN (OR APPROVED EQUAL) (SEE SHEET C-504) RIM = 1067.77 12" HDPE INV (N)=1064.38 12" HDPE INV (E)=1064.39
CO-05	PROPOSED 12" TRAFFIC RATED NYLOPLAST DRAIN BASIN (OR APPROVED EQUAL) (SEE SHEET C-504) RIM = 1068.40 12" HDPE INV (W)=1065.59 8" PVC Pipe INV (S)=1065.59
MH-01	PROPOSED 48" DIA. STORM MANHOLE PER ODOT STD DWG MH-3 (OR APPROVED EQUAL) RIM = 1067.75 15" HDPE INV (W)=1063.85 12" HDPE INV (E)=1063.85 12" HDPE INV (S)=1063.85
SAN 1	PROPOSED SANITARY MANHOLE (SEE SHEET C-503) RIM=1067.88 INV. 6" PVC (N,E) = 1063.40.
OW 1	PROPOSED 2500 GALLON OIL AND WATER SEPARATOR (SEE SHEET C-503) CONTRACTOR SHALL SUBMIT SHOP DRAWING TO TOM DAVIS AT STARK COUNTY SANITARY FOR APPROVAL PRIOR TO ORDERING) RIM=1068.25 INV. 6" INLET (W)=1063.30 INV. 6" OUTLET (E)=1059.30 INV. 6" OUTLET AT CLEANOUTS = 1063.05

PROPOSED STRUCTURE TABLE

Structure Name	Structure Details
CO-02	PROPOSED CLEANOUT IN PAVEMENT (SEE SHEET C-502) RIM = 1067.26 8" PVC Pipe INV (SW)=1064.89
CO-03	PROPOSED CLEANOUT IN PAVEMENT (SEE SHEET C-502) RIM = 1067.59 8" PVC Pipe INV (W)=1065.55
CO-06	PROPOSED CLEANOUT IN PAVEMENT (SEE SHEET C-502) RIM = 1068.19 8" PVC Pipe INV (N)=1065.72
CO-07	PROPOSED CLEANOUT IN PAVEMENT (SEE SHEET C-502) RIM = 1068.28 8" PVC Pipe INV (W)=1066.06
CO-08	PROPOSED CLEANOUT IN PAVEMENT (SEE SHEET C-502) RIM = 1068.06 8" PVC Pipe INV (SW)=1066.18
CO-13	PROPOSED CLEANOUT (SEE SHEET C-502) RIM = 1058.50 6" PVC Pipe INV (N)=1055.25

BENCHMARKS:
STATE PLANE GRID NORTH, NAD 83 (2011),
OHIO NORTH ZONE.
ELEVATIONS ARE NAVD 88, GEOID 18.
TIED BY GPS TO THE O.D.O.T. VRS.

BENCHMARK #2 - MAG SPIKE ON SOUTH SIDE OF UTILITY POLE
N 425092, E 2289710
ELEVATION = 1060.95

BENCHMARK #4 - MAG SPIKE ON WEST SIDE OF UTILITY POLE
N 425103, E 2289980
ELEVATION = 1066.51.

BENCHMARK #6 - NORTH EAST BONNET BOLT BETWEEN VILLE & ALA
N 425232, E 2290227
ELEVATION = 1077.30.

OHIO811.org Before You Dig

UTILITIES SHOWN ON SURVEY WERE LOCATED BASED ON FIELD MARKING PROVIDED BY OUPS REQUEST #A207700537 AND #A207700538.

GPD GROUP®
Gloos, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	03/07/2023	CANTON WATER DEPARTMENT REVISIONS

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

UTILITY PLAN

ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	TJW

JOB NO.
2020377.05

C-131

Drawing Name: O:\2020\2020377\05 - Sanitation Building\4_Working Files\00_CAD (2020)\CiSheets\2020377.05 Plan Utility.dwg
March 7, 2023 3:5 PM - twright

PUMP STATION NOTES

1. JOINT SEAL BETWEEN PRECAST MANHOLE SECTIONS SHALL BE RESILIENT AND FLEXIBLE GASKET JOINTS PER ASTM C443 OR LATEST EDITION.
2. PRECAST MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C478 AND SHALL BE CLASS III. MANHOLE STEPS TO CONSIST OF A 1/2" Ø, A615, GR66 STEEL BAR WITH INJECTED COPOLYMER POLYPROPYLENE TREAD. STEPS TO MEET ASTM C478, AASHTO M-199 AND OSHA SPECIFICATIONS.
3. WET WELL AND VALVE VAULT TO BE 4,500 PSI CONCRETE.
4. ALL HARDWARE, BRACKETS, SUPPORTS, RAILS, AND LIFTING CABLE WITHIN THE WET WELL ARE TO BE STAINLESS STEEL.
5. CONTRACTOR IS RESPONSIBLE FOR SHEETING AND ENSURING THAT FLOTATION OF THE PROPOSED STRUCTURE WILL NOT OCCUR DURING CONSTRUCTION. PRESSURE RELIEF VALVES, SUMP PUMPS, TEMPORARY BALLAST, AND OTHER MEANS OF PREVENTING FLOTATION MAY BE REQUIRED UNTIL THE PUMP STATION EXCAVATION IS COMPLETELY BACKFILLED AND COMPACTED.

PUMP STATION CONTROL PANEL NOTES

CONTROL PANEL GENERAL NOTES

A. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO PROVIDE A DUPLEX MOTOR CONTROL PANEL AS SPECIFIED HEREIN. THE DOOR SHALL INCLUDE A POCKET FOR HOLDING O&M MANUALS AND PRINTS FOR THE PUMP STATION. FURNISH SAME.
B. THE MOTOR CONTROL PANEL SHALL BE ASSEMBLED AND TESTED BY A SHOP MEETING U.L. STANDARD 508 FOR INDUSTRIAL CONTROLS. THE MOTOR CONTROL PANEL SHALL BE ASSEMBLED AND TESTED BY THE SAME MANUFACTURER SUPPLYING THE PUMP TO ENSURE SUITABILITY AND ASSURANCE OF EXPERIENCE IN MATCHING CONTROLS TO MOTORS AND TO ENSURE SINGLE SOURCE RESPONSIBILITY FOR THE EQUIPMENT.

CONTROL PANEL CONSTRUCTION NOTES

A. THE CONTROLS FOR THE PUMP SHALL BE CONTAINED IN A STAINLESS STEEL ENCLOSURE MEETING NEMA 4X REQUIREMENTS WITH HINGED DOOR UTILIZING DEAD-FRONT CONSTRUCTION.
B. THE ENCLOSURE SHALL HAVE PROVISIONS FOR PADLOCKING. A NAMEPLATE SHALL BE PERMANENTLY AFFIXED TO THE PANEL AND INCLUDE THE PUMP MODEL NUMBER, VOLTAGE, PHASE, HERTZ, PUMP FULL LOAD AMPERE RATING AND PUMP HORSEPOWER RATING. A WARNING LABEL AGAINST ELECTRIC SHOCK SHALL BE PERMANENTLY AFFIXED TO THE OUTER DOOR.
C. A STAINLESS STEEL BACK PANEL WITH ELECTROPLATED BRIGHT ZINC AND CLEAR CHROMATE FINISH SHALL BE PROVIDED, A PAINTED STEEL BACK PANEL SHALL NOT BE ACCEPTABLE.
D. FOR EACH PUMP A RUN LIGHT AND A HAND-OFF-AUTO SWITCH SHALL BE PROVIDED. RUN LIGHTS AND HAND-OFF-AUTO SWITCHES SHALL BE MOUNTED ON AN ELECTROPLATED BRIGHT ZINC WITH CLEAR CHROMATE FINISH STEEL BRACKET. THE RUN LIGHTS AND HAND-OFF-AUTO SWITCHES SHALL BE PROPERLY LABELED AS TO FUNCTION. THE HAND-OFF-AUTO SWITCHES SHALL BE ROCKER TYPE WITH AN ELECTRICAL LIFE OF 50,000 OPERATIONS. THE RUN LIGHTS SHALL MATCH THE HAND-OFF AUTO SWITCHES IN APPEARANCE AND HAVE AN ELECTRICAL LIFE OF 50,000 HOURS. RUN LIGHTS SHALL BE RED L.E.D. TYPE.
E. THE INCOMING POWER SHALL BE 120/208 VOLTS, 3 PHASE 60 HERTZ SERVICE. THERMAL BLOCKS WITH BOX TYPE LUGS SHALL BE SUPPLIED TO TERMINATE ALL WIRING FOR FLOATS AND HEAT AND SEAL SENSORS FOR EACH PUMP, IF REQUIRED. THE PUMP LEADS SHALL BE TERMINATED AT THE OVERLOAD RELAY OR AT BOX TYPE TERMINAL BLOCKS. THE TERMINAL BLOCKS FOR THE FLOAT CONNECTIONS SHALL BE ON THE PUMP CONTROLLER.
F. A PREWIRED CIRCUIT BREAKER SHALL BE USED TO PROTECT AGAINST LINE FAULTS AND TO DISCONNECT THE PUMP FROM THE INCOMING POWER. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC AND SIZED TO MEET NEC REQUIREMENTS FOR MOTOR CONTROLS.
G. THE MAGNETIC STARTER SHALL INCLUDE A CONTACTOR WITH A MINIMUM MECHANICAL LIFE OF 3,000,000 OPERATIONS AND A MINIMUM CONTACT LIFE OF 1,000,000 OPERATIONS. 'DEFINITE' PURPOSE CONTACTORS ARE NOT ACCEPTABLE. THE MAGNETIC STARTER SHALL INCLUDE AN OVERLOAD RELAY WHICH IS AMBIENT TEMPERATURE COMPENSATED AND BIMETALLIC. THE OVERLOAD RELAY SHALL BE CAPABLE OF BEING SET IN EITHER A MANUAL' OR AUTOMATIC RESET MODE. IN THE MANUAL MODE, RESET SHALL BE ACCOMPLISHED ONLY BY THE OPERATOR, AT 6 TIMES FULL LOAD AMPS THE OVERLOAD RELAY SHALL TRIP WITHIN 10 SECONDS OR CLASS 10 RATED OVERLOAD RELAYS SHALL BE REQUIRED.
H. CONTROL VOLTAGE SHALL BE 120 VAC AND MAY BE ACCOMPLISHED BY THE MEANS OF A TRANSFORMER OR AVAILABLE LINE VOLTAGE. CONTROL FUSES AND ON/OFF SWITCHES SHALL PROTECT AND ISOLATE THE CONTROL VOLTAGE FROM THE LINE.
I. WIRE TIES OR PANDUIT SHALL BE USED TO MAINTAIN PANEL WIRING IN NEAT BUNDLES FOR MAINTENANCE AND TO PREVENT INTERFERENCE WITH OPERATING DEVICES. ALL WIRING SHALL BE COLOR-CODED TO FACILITATE MAINTENANCE AND REPAIR OF THE CONTROL PANEL. WHERE A COLOR IS REPEATED, NUMBER CODING SHALL BE ADDED. A SCHEMATIC SHALL BE PERMANENTLY ATTACHED TO THE INSIDE SURFACE OF THE FRONT DOOR.
J. ALL GROUND CONNECTIONS SHALL BE MADE WITH RING TONGUE TERMINALS AND STAR WASHERS TO ASSURE PROPER GROUND.
K. A DUPLEX PUMP CONTROLLER SHALL BE PROVIDED FOR CONTROL LOGIC. PUMP CONTROLLER SHALL BE SOLID STATE UTILIZING A PRINTED CIRCUIT BOARD TO AVOID CONVENTIONAL WIRING. THE PRINTED CIRCUIT BOARD OF THE PUMP CONTROLLER SHALL BE MADE OF U.L. LISTED MATERIALS.
L. THE PUMP CONTROLLER SHALL INDICATE FLOAT CIRCUIT OPERATIONS UTILIZING RED AMBER LED INDICATOR LIGHTS. LED INDICATOR LIGHTS SHALL PROVIDE ADEQUATE INFORMATION SO THAT THEY CAN BE USED FOR DIAGNOSIS IN TROUBLESHOOTING PROBLEMS LOCATED IN THE FLOAT CIRCUITS. EACH LED SHALL BE PERMANENTLY LABELED ON THE PUMP CONTROLLER AS TO FUNCTION.
M. PUMP CONTROLLER SHALL HAVE PROVISIONS FOR CONNECTING FLOAT LEVEL CONTROLS HEAT SENSOR MONITORS, WHERE APPLICABLE, TO BOX TYPE LUG CONNECTORS.
N. BOX TYPE LUG CONNECTORS SHALL BE MADE OF POLYAMIDE THERMOPLASTIC TO EXCLUDE AGING DUE TO HEAT INFLUENCES. PHENOLIC TYPE TERMINAL BLOCKS ON THE PUMP CONTROLLER SHALL NOT BE ACCEPTABLE. EACH TERMINAL BLOCK SHALL BE PROPERLY AND PERMANENTLY LABELED ON THE PUMP CONTROLLER AS TO ITS PURPOSE.
O. PUMP CONTROLLER SHALL INCLUDE ALTERNATING CIRCUIT OF THE LOW VOLTAGE TYPE AND BE OPERATIONAL FROM A TRANSFORMER MOUNTED ON THE PUMP CONTROLLER BOARD. THE ALTERNATOR SHALL CONSIST OF AN ALTERNATING RELAY WHICH ALTERNATELY SWITCHES WHEN VOLTAGE IS REMOVED FROM ITS CIRCUIT. ALTERNATING CIRCUIT SHALL HAVE A TOTALLY ISOLATED GROUND.
P. WIRING OF HAND-OFF-AUTO SWITCHES, RUN LIGHTS, CONTACTORS, AND OVERLOADS TO THE PUMP CONTROLLER SHALL BE ACCOMPLISHED BY MEANS OF PLUG CONNECTORS, THE PUMP CONTROLLER SHALL HAVE MALE HEADER ASSEMBLIES FROM THE CORRESPONDING DEVICES ON THE PUMP CONTROLLER FOR THAT MALE HEADER ASSEMBLY. HEADER ASSEMBLIES SHALL BE CONSTRUCTED OF A CORROSION-RESISTANT THERMOPLASTIC MATERIAL HAVING A TEMPERATURE RANGE OF -55°C TO 105°C AND COPPER ALLOY, BRIGHT ACID TIN OVER NICKEL-PLATING CONTACTS.
Q. OPTIONS-THE CONTROL PANEL SHALL BE EQUIPPED WITH THE FOLLOWING ADDITIONAL FEATURES:
   1. HIGH LEVEL ALARM LIGHT FLASHING MOUNTED TO TOP OF CONTROL PANEL
   2. HIGH LEVEL ALARM HORN WITH PUSH TO SILENCE SWITCH.
   3. LOW WATER ALARM HORN WITH PUSH TO SILENCE SWITCH.
   4. ELAPSED TIME METER (PER PUMP)
   5. SEAL FAILURE LIGHT (PER PUMP)
   6. ANTI-CONDENSATE HEATER (50 WATT) WITH THERMOSTAT
   7. HEAT SENSOR - MANUAL RESET (PER PUMP)
   8. LAG PUMP ON TIME DELAY (15-20 SECONDS)
   9. 120 VOLT GFCI CONVENIENCE OUTLET
   10. AUXILIARY REMOTE HIGH LEVEL ALARM LIGHT OUTDOOR DUTY
   11. AUXILIARY REMOTE HIGH LEVEL ALARM HORN OUTDOOR DUTY
   12. REMOTE LAMACOID SIGN : IF FLASHING CALL THIS NUMBER XXX-XXX-XXXX (VERIFY WITH OWNER BEFORE ORDERING)
R. PRIOR TO FABRICATION, PUMP STATION MANUFACTURER SHALL SUBMIT 5 COPIES OF SUBMITTAL DATA FOR REVIEW AND APPROVAL. SUBMITTAL SHALL INCLUDE SHOP DRAWINGS, ELECTRICAL LADDER LOGIC DRAWINGS, AND SUPPORT DATA AS FOLLOWS: CATALOG CUTS SHEETS REFLECTING CHARACTERISTICS FOR MAJOR ITEMS OF EQUIPMENT, MATERIALS OF CONSTRUCTION, MAJOR DIMENSIONS, MOTOR DATA, PUMP CHARACTERISTIC CURVES SHOWING THE DESIGN DUTY POINT CAPACITY (GPM), HEAD (FT), AND BRAKE HORSEPOWER (BHP), ELECTRICAL COMPONENTS USED IN THE MOTOR BRANCH AND LIQUID LEVEL CONTROL SHALL BE FULLY DESCRIBED.
S. INSTALLATION SHALL BE IN ACCORDANCE WITH WRITTEN INSTRUCTIONS PROVIDED BY THE PUMP STATION MANUFACTURER. COMPREHENSIVE INSTRUCTIONS SUPPLIED AT TIME OF SHIPMENT SHALL ENABLE PERSONNEL TO PROPERLY OPERATE AND MAINTAIN ALL EQUIPMENT SUPPLIED. CONTENT AND INSTRUCTIONS SHALL ASSUME OPERATING PERSONNEL ARE FAMILIAR WITH PUMPS, MOTORS, PIPING AND VALVES, BUT LACK EXPERIENCE ON EXACT EQUIPMENT SUPPLIED.
T. IN ORDER TO UNIFY RESPONSIBILITY FOR PROPER OPERATION OF THE COMPLETE PUMPING STATION, IT IS THE INTENT OF THESE SPECIFICATIONS THAT ALL SYSTEM COMPONENTS BE FURNISHED BY A SINGLE SUPPLIER (UNITARY SOURCE). THE PUMPING STATION MUST BE OF STANDARD CATALOG DESIGN, TOTALLY WARRANTED BY THE PUMP MANUFACTURER. UNDER NO CIRCUMSTANCES WILL A SYSTEM CONSISTING OF PARTS COMPILED AND ASSEMBLED BY A MANUFACTURER'S REPRESENTATIVE OR DISTRIBUTOR BE ACCEPTED. PRIOR TO THE BID, THE BIDDER MAY OFFER SUBSTITUTIONS FOR THE SPECIFIED EQUIPMENT. THE SUBSTITUTION OFFERED MUST BE EQUAL OR SUPERIOR TO THE SPECIFIED EQUIPMENT. THE BURDEN OF PROOF SHALL BE THE RESPONSIBILITY OF THE BIDDER.
U. PRIOR TO ACCEPTANCE BY OWNER, AN OPERATIONAL TEST OF ALL PUMPS AND CONTROL SYSTEMS SHALL BE CONDUCTED TO DETERMINE IF THE INSTALLED EQUIPMENT MEETS THE PURPOSE AND INTENT OF THE SPECIFICATIONS. TESTS SHALL DEMONSTRATE THAT ALL EQUIPMENT IS ELECTRICALLY, MECHANICALLY, STRUCTURALLY, AND OTHERWISE ACCEPTABLE IF IS SAFE AND IN OPTIMUM WORKING CONDITION; AND CONFORMS TO THE SPECIFIED OPERATING CHARACTERISTICS.
V. A START-UP REPORT SHALL BE SUBMITTED BY THE PUMP STATION START-UP REPRESENTATIVE, PROVIDING DOCUMENTATION OF STATION GAUGE READINGS, MOTOR AMPERAGE, LEVEL SETTINGS, AS WELL AS A COMPLETE CHECK LIST OF STATION COMPONENTS TO ASSURE THAT THE COMPLETE PUMP STATION IS IN GOOD WORKING ORDER. COPIES SHALL BE PROVIDED FOR THE ENGINEER, INSTALLING CONTRACTOR, OWNER AND STATION MANUFACTURERS SERVICE DEPARTMENT TO ASSURE WARRANTY CONSIDERATION.
W. THE EQUIPMENT, APPARATUS, AND PARTS FURNISHED SHALL BE WARRANTED FOR A PERIOD OF FIVE (5) YEARS, EXCEPTING ONLY THOSE ITEMS THAT ARE NORMALLY CONSUMED IN SERVICE, SUCH AS LIGHT BULBS, OILS GREASE, PACKING, GASKETS, 0-RINGS, ETC. THE PUMP STATION MANUFACTURER SHALL BE SOLELY RESPONSIBLE FOR THE WARRANTY OF THE STATION AND ALL COMPONENTS.
X. TWO (2) SPARE BULBS OF EACH TYPE INCLUDED AND TWO (2) SPARE FLOAT SWITCHES PROVIDED BY THE CONTRACTOR.

SANITARY SEWER NOTES

1. ALL SANITARY SEWERS, FORCE MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH CURRENT INDUSTRY STANDARDS, THE REQUIREMENTS OF THESE PLANS, AND SPECIFICATIONS.
2. CONTRACTOR SHALL OBTAIN PERMIT TO CONNECT TO STARK COUNTY SANITARY SEWER SYSTEM.
3. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO THAT THE FLOW OF ALL EXISTING SEWERS AND LATERALS WILL BE MAINTAINED AT ALL TIMES. ANY ADDITIONAL LABOR OR COST INVOLVED IN MAINTAINING THIS FLOW BY PUMPING OR BY ANY OTHER APPROVED METHODS WHICH IS NECESSARY FOR THE COMPLETION OF THIS PROJECT, SHALL BE INCLUDED IN THE AMOUNT BID.
4. FORCEMAIN TO BE, 1.5" AWWA C-901, SDR 9 HDPE, 250 PSI, IPS, WITH ASTM 2321, CLASS 1 BEDDING OR APPROVED EQUAL. JOINTS TO BE FUSED OR MEET ASTM F-2620. THE FORCE MAIN SHALL BE PRESSURE TESTED IN THE PRESENCE OF THE INSPECTOR.
5. FORCE MAINS SHALL BE SUBJECTED TO A LOW PRESSURE AIR TEST. AIR TEST SHALL MEET THE PROCEDURES AND REQUIREMENTS OF ASTM F1417 WITH THE FOLLOWING EXCEPTION: TEST PRESSURE SHALL BE 30 PSI (APPROXIMATELY 1.5 TIMES THE WORKING PRESSURE). CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL TEMPORARY PLUGS, CAPS, ETC ARE SECURELY INSTALLED DURING THE TEST.
6. FORCE MAIN(S) FAILING THE PRESSURE TEST SHALL BE REPAIRED/REPLACED AND RETESTED AT THE CONTRACTORS COST. THE CONTRACTOR IS RESPONSIBLE FOR THE COSTS OF RETESTING THE FORCE MAIN UNTIL AN ACCEPTABLE TEST IS ACHIEVED.
7. THE CONTRACTOR SHALL PROVIDE THE OWNER A SET OF AS-BUILT DRAWINGS WITH THE LOCATIONS OF ALL SANITARY SEWER, GAS SERVICES, STORM SEWERS/DRAINS, WATER SERVICES AND ALL OTHER UNDERGROUND UTILITIES ENCOUNTERED FOR THE ENTIRE PROJECT. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.
8. PDF SHOP DRAWINGS OF ALL MATERIALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, PRIOR TO PURCHASE.
9. THE CONTRACTOR SHALL SCHEDULE INSPECTION WITH REGULATORY AGENCIES (STARK COUNTY SANITARY ENGINEER) SUCH THAT WORK PROGRESS IS NOT AFFECTED BY INSPECTION REQUIREMENTS.
10. NOTIFY OWNER TWO (2) WEEKS PRIOR TO STARTING CONSTRUCTION.
11. EXCAVATION OUTSIDE NORMAL WORK LIMITS SHALL NOT BE COMMENCED WITHOUT APPROVAL OF THE OWNER.
12. TOPSOIL, FERTILIZING, SEEDING AND MULCHING FOR RESTORATION OF DISTURBED LAWN AREAS SHALL CONFORM TO SECTIONS 659 AS SPECIFIED IN THE 2019 (LATEST EDITION) O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS, EXCEPT FAIRLAWN SEED MIX SHALL BE USED. CONTRACTOR TO THOROUGHLY WATER SEEDED AREAS AFTER INSTALLATION AND EVERY OTHER DAY FOR A TOTAL OF FIVE (5) WATERINGS.
13. ALL DISTURBED SIGNS, GUARDRAIL, MAIL AND/OR PAPER BOXES, DRIVES AND DRIVE CULVERTS SHALL BE REPAIRED AND/OR REPLACED AS DIRECTED AT NO COST TO THE OWNER.
14. ALL DISTURBED AND/OR DAMAGED UTILITIES, STORM SEWER PIPES & APPURTENANCES, PAVEMENT, BERMS AND DITCHES SHALL BE REPAIRED AS DIRECTED AT NO COST TO THE OWNER.
15. TOP ELEVATIONS OF STRUCTURES, AS INDICATED ON THE PLAN AND PROFILE ARE APPROXIMATE AND SHOULD BE USED FOR BIDDING PURPOSES ONLY. ACTUAL TOP ELEVATIONS SHALL BE MEASURED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHOULD NOTE THAT NO EXTRAS WILL BE AWARDED NOR SHALL ANY DEDUCTION BE MADE FOR MANHOLES WHOSE AS-BUILT DEPTHS MAY VARY FROM THOSE SHOWN ON PLANS. ADJUSTMENT OF THE CASTING HEIGHT MAY BE MADE WITH GRADE RINGS AND A MAXIMUM OF TWO COURSES OF BRICK. MAXIMUM ADJUSTMENT IS 6". NO CHANGE IN PAYMENT WILL OCCUR DUE TO AS-BUILT DEPTHS VARYING FROM PLAN DEPTHS. MANHOLE LIDS SHALL BE 0.5" ABOVE PAVED SURFACES AND TWO (2) INCHES ABOVE UNPAVED GROUND (UNLESS OTHERWISE NOTED IN THE PLANS). NO EXTRAS WILL BE PROVIDED FOR FIELD ADJUSTMENT OF MANHOLES.
16. WHERE INLET AND OUTLET PIPES CONNECT TO STRUCTURES, A FLEXIBLE WATERTIGHT JOINT IS REQUIRED. FLEXIBLE MANHOLE CONNECTIONS SHALL MEET ASTM C-923. PRECAST MANHOLE CONSTRUCTION SHALL MEET ASTM C-478 WITH JOINTS PER ASTM C-443. MANHOLES SHALL BE VACUUM TESTED PER ASTM C-1244. MANHOLES FAILING THE VACUUM TEST SHALL BE SEALED AND RETESTED, UNTIL A PASSING TEST OCCURS, AT THE CONTRACTOR'S EXPENSE.
17. GRAVITY SANITARY SEWER SHALL BE ASTM D-3034, SDR 35 PVC WITH JOINTS PER ASTM D-3212 AND BEDDING PER ASTM D-2321, CLASS I. ALL GRAVITY SEWERS MUST PASS A LEAKAGE TEST PRIOR TO ACCEPTANCE BY THE OWNER. PIPE FAILING THE LEAKAGE TEST SHALL BE REPLACED AND RETESTED AT THE CONTRACTORS EXPENSE UNTIL A SUCCESSFUL TEST OCCURS.
18. ALL FLEXIBLE PIPE GRAVITY SEWERS AND LATERALS SHALL BE SUBJECTED TO A PIPE DEFLECTION. THE TEST SHALL NOT OCCUR UNTIL AT LEAST 30 DAYS AFTER THE SOIL/PIPE SYSTEM HAS BEEN INSTALLED. THE TEST SHALL CONSIST OF HAND PULLING A MANDREL DEVICE THROUGH THE SEWER. THE MANDREL SHALL BE EITHER A FULL CIRCLE OR 9-ARM TYPE WHICH HAS OUTSIDE DIMENSIONS WHICH ARE 95% OF THE I.D. OF THE PIPE BEING TESTED. PIPE FAILING THE MANDREL TEST SHALL BE REPLACED AT NO COST TO THE OWNER (INCLUDING EXCAVATION, SITE RESTORATION, RE-TESTING ETC).
19. THE DEPTH OF EXISTING UTILITIES ON PROFILES ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
20. BACKFILL MATERIAL EXTENDING MORE THAN SIX (6) INCHES ABOVE THE LEVEL OF THE SIDES OF THE TRENCH, MUST BE REMOVED FROM THE JOB SITE. ANY PAVEMENT CUT, DAMAGED OR UNDERMINED BY EXCAVATION, SHALL BE REMOVED AND REPLACED. TEMPORARY PAVEMENT REPLACEMENTS SHALL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR. PERMANENT REPLACEMENT MUST BE COMPLETED AS SOON AS PRACTICAL.
21. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
22. THE CONTRACTOR MUST MAINTAIN A 10-FOOT MINIMUM HORIZONTAL CLEARANCE FROM THE EDGE OF ALL WATER MAINS TO THE EDGE OF ALL SANITARY SEWER AND/OR FORCE MAIN PIPES.
23. THE CONTRACTOR MUST MAINTAIN AN 18-INCH MINIMUM VERTICAL CLEARANCE FROM THE EDGE OF ALL WATER MAINS AND/OR SERVICES TO THE OUTSIDE EDGE OF ALL SANITARY SEWER PIPES WHERE THEY CROSS.
24. THE CONTRACTOR MUST MAINTAIN A 12" MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER AND STORM SEWERS AT CROSSINGS.
25. COST OF ANY SHEETING OR DEWATERING NECESSARY FOR INSTALLATION OF THE SANITARY SEWER OR THE PUMP STATION SHALL BE INCLUDED IN PRICE BID FOR THE RESPECTIVE ITEMS.

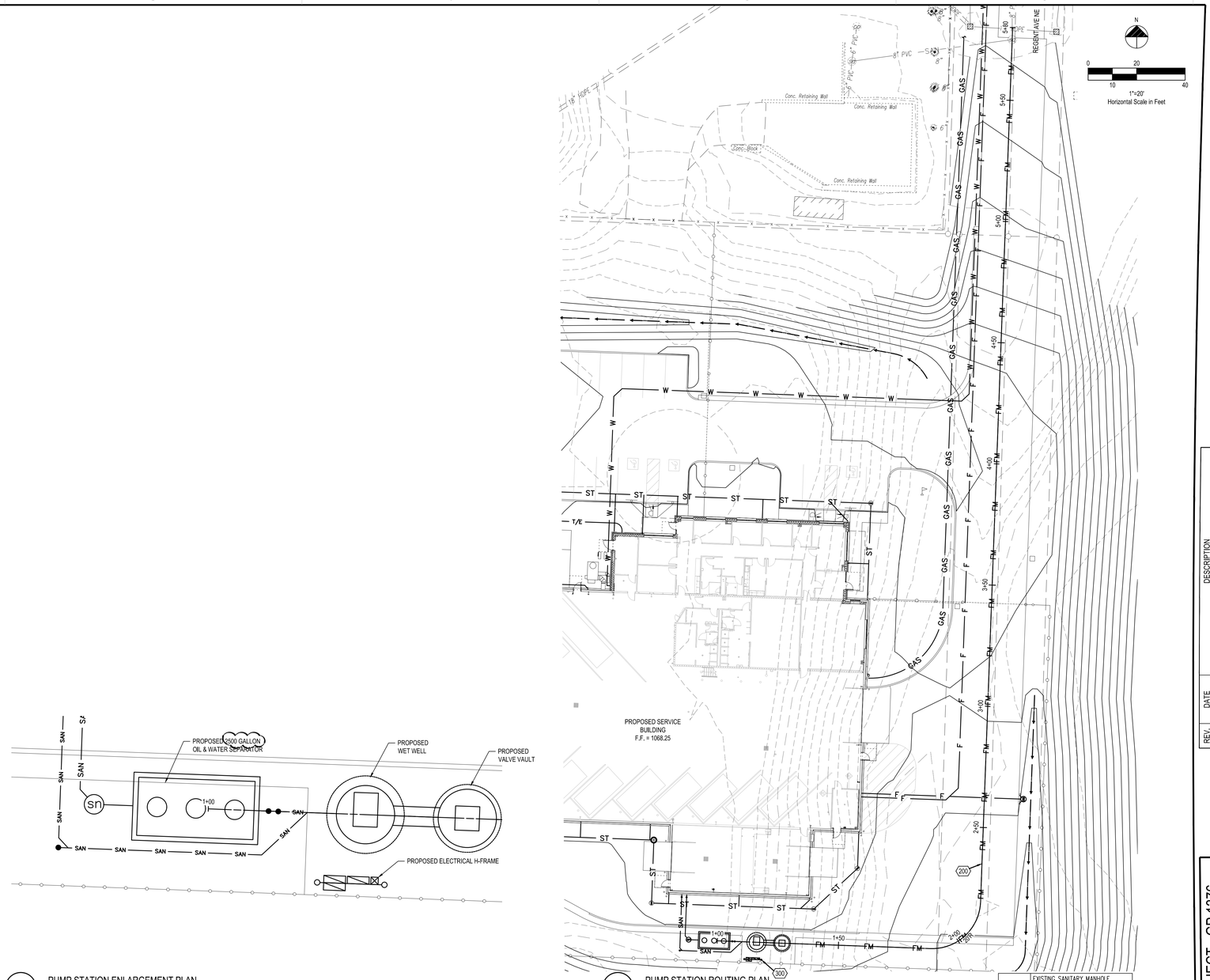
PLAN KEYNOTES (###)

SANITARY

200. PROPOSED 452 L.F. OF 1.5" (DR-9 HDPE) SANITARY F.M.

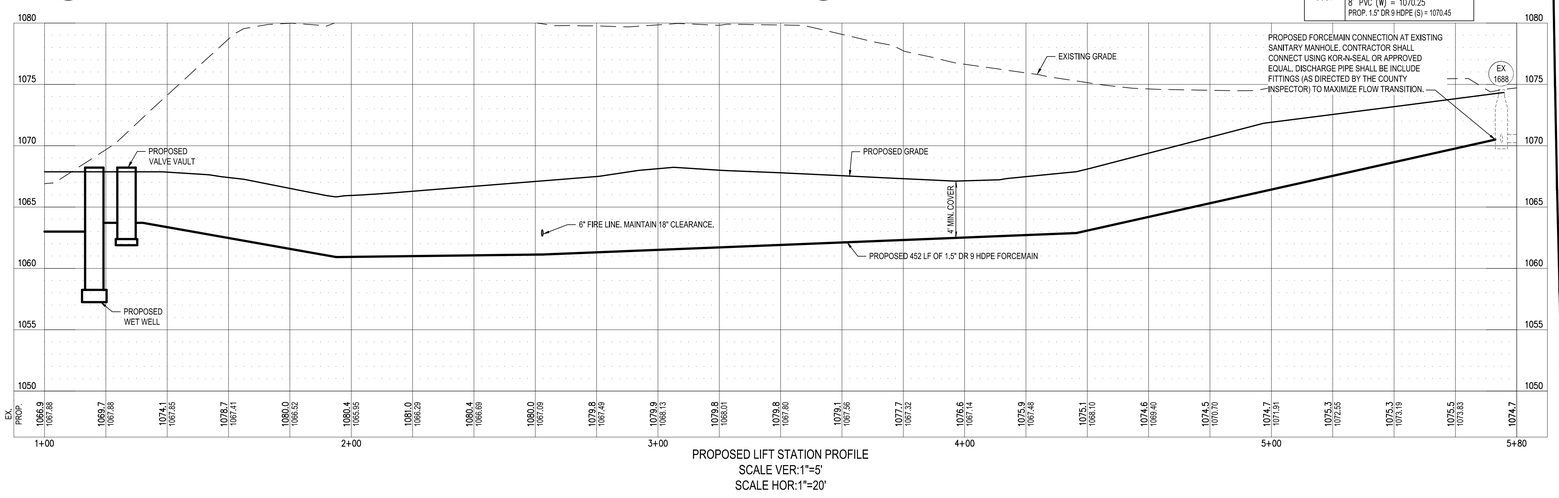
ELECTRICAL

300. PROPOSED ELECTRICAL H-FRAME, SEE ELECTRICAL SHEET FOR ELECTRICAL ROUTING FROM BUILDING.



C3 PUMP STATION ENLARGEMENT PLAN
1"=5'

C5 PUMP STATION ROUTING PLAN
N.T.S.



PROPOSED LIFT STATION PROFILE
SCALE VER:1"=5'
SCALE HOR:1"=20'

GPD GROUP®
Gloos, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311-1073
330.572.2100 Fax: 330.572.2101

REV.:	DATE	DESCRIPTION
1	03/02/2023	ADDENDUM 01

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

SANITARY PUMP STATION
NOTES AND PLAN

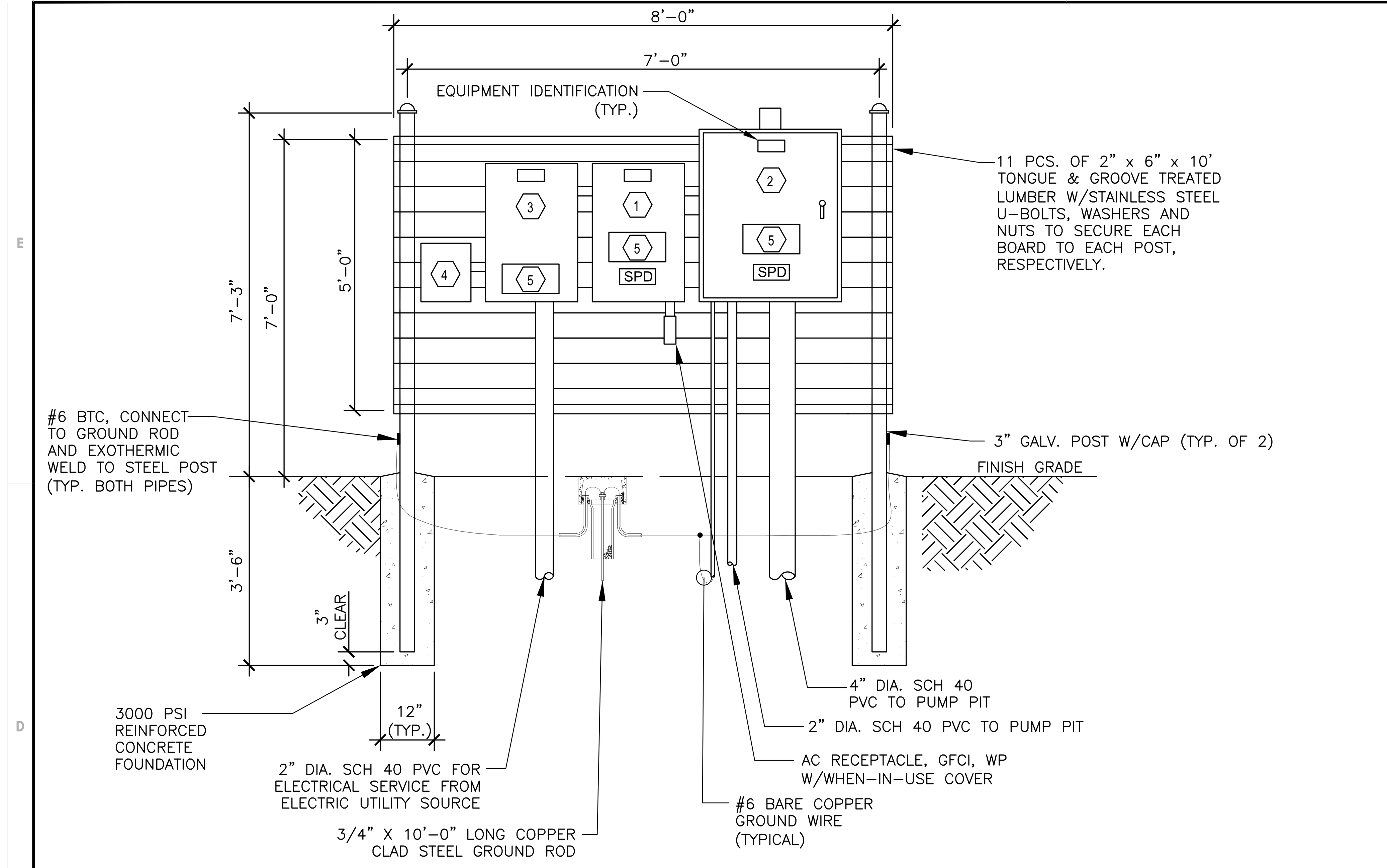
ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER

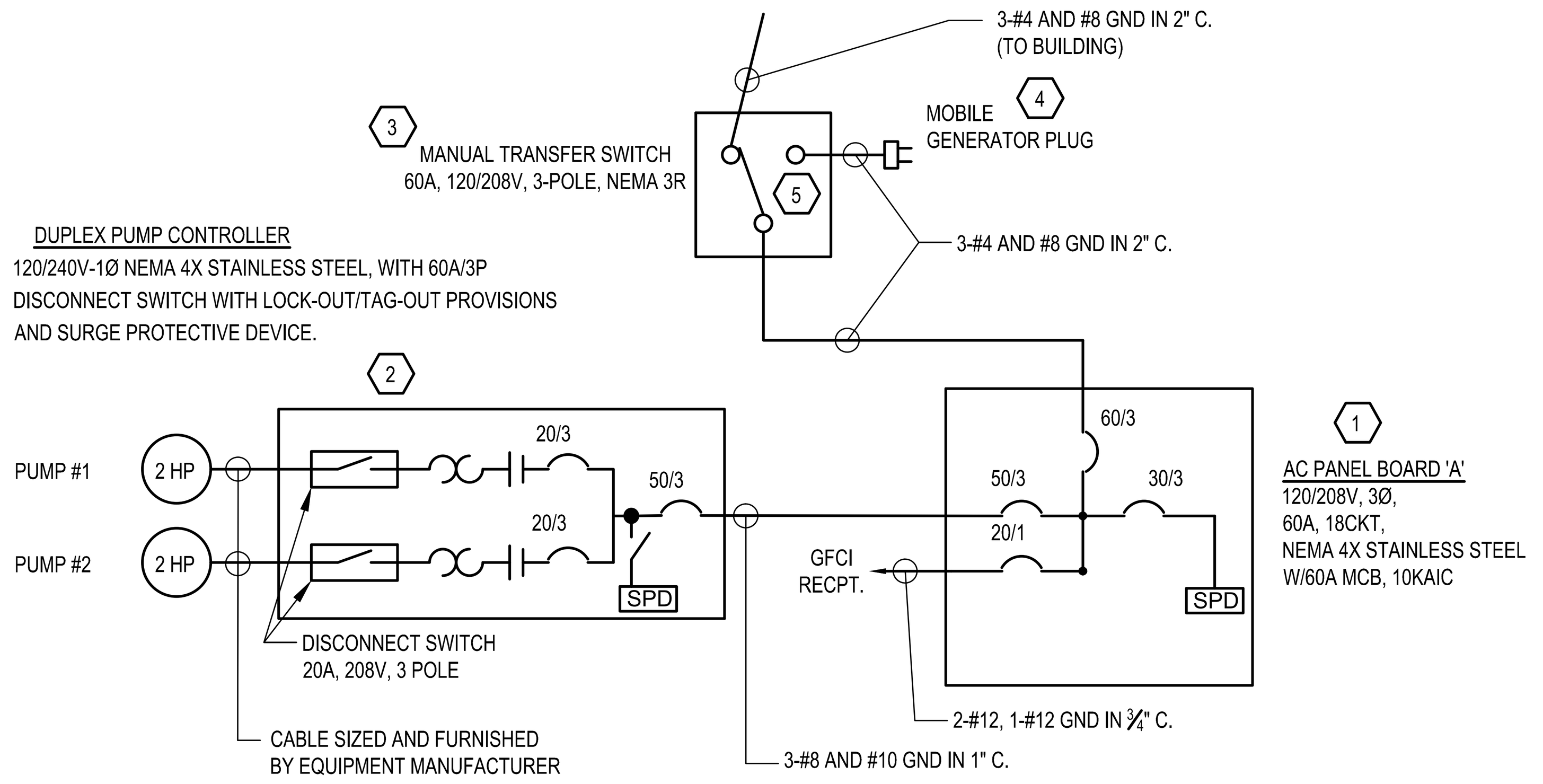
JOB NO.
2020377.05

C-132

Drawing Name: O:\2020\2020377\05 - Sanitation Building\4_Working Files\00_CAD (2020)\C\Sheets\2020377 .05 Plan Pump Station And Profile.dwg
Saved: 2/6/2023 12:24 PM - twright



PUMP STATION PLAN UTILITY STRUCTURE
N.T.S.



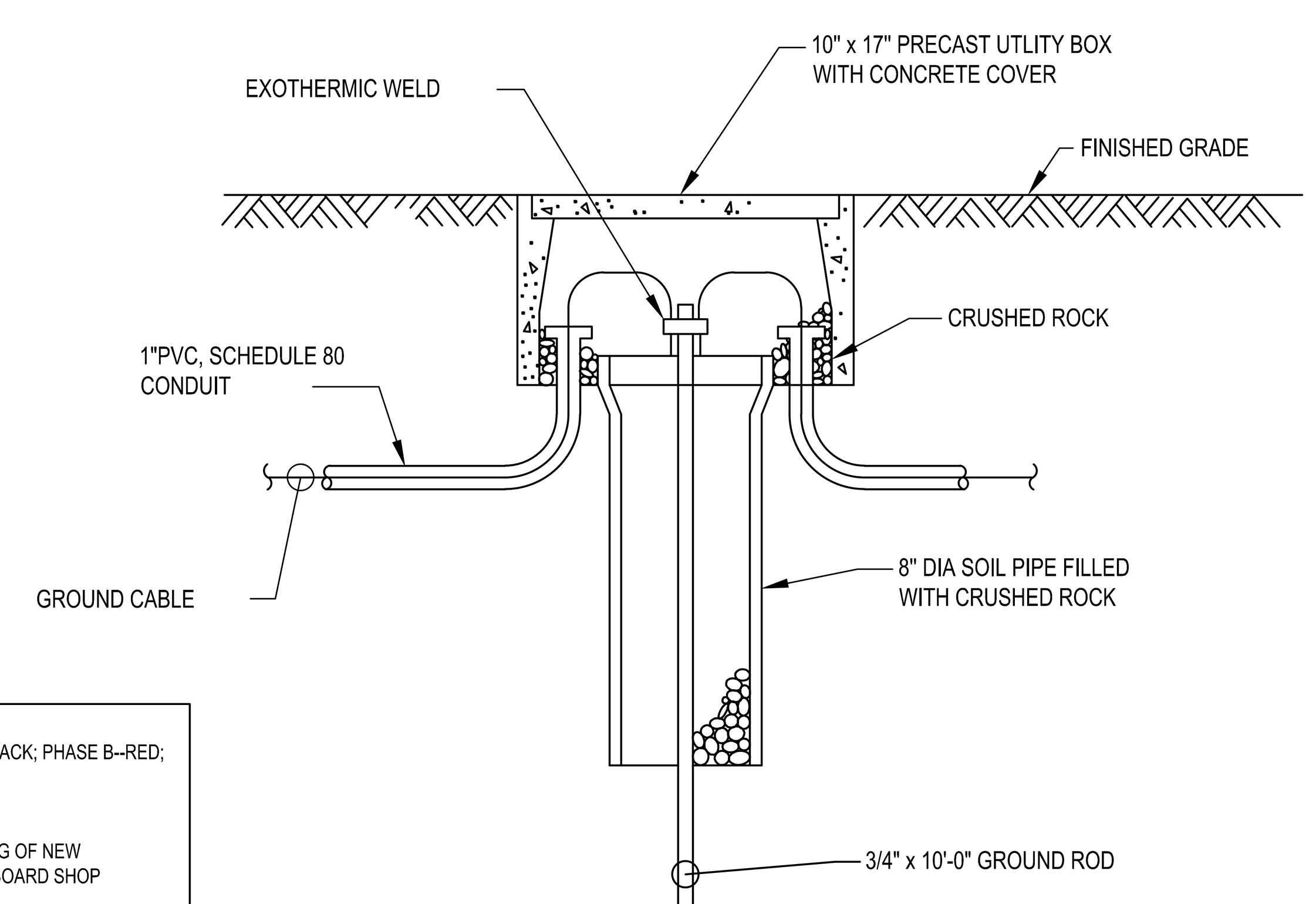
PROPOSED ONE LINE DIAGRAM
N.T.S.

LEGEND

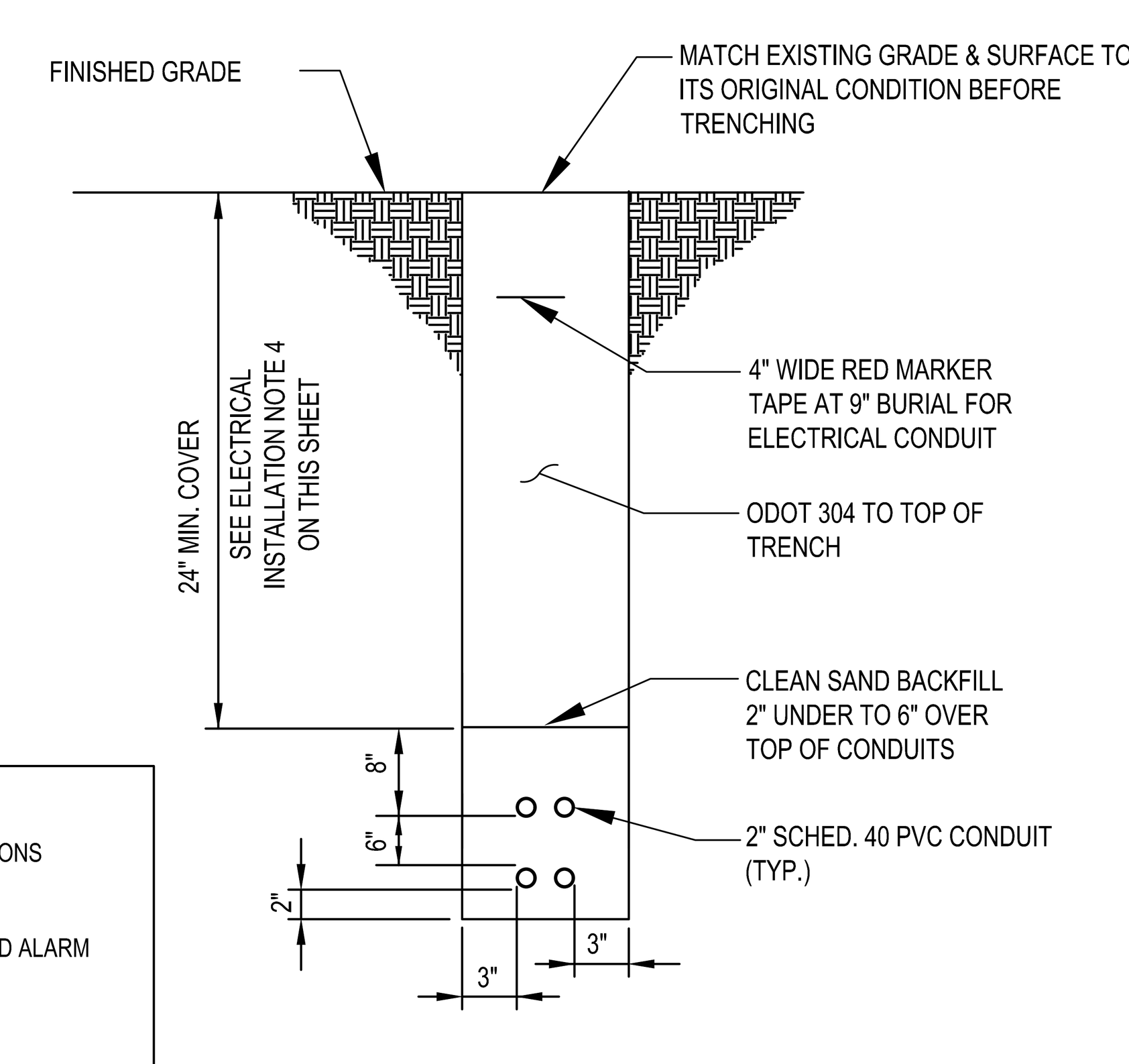
BTC - BARE TINNED COPPER
SPD - SURGE SUPPRESSION DEVICE (2 MIN. REQUIRED)
MFR'S - MANUFACTURER'S
ETR - EXISTING TO REMAIN
WP - WEATHER PROOF

SHEET KEYNOTES

1. NEW 120/208V, 3ø, 4W AC PANEL BOARD WITH 60A, MCB, NEMA 4X STAINLESS STEEL ENCLOSURE AND SURGE PROTECTIVE DEVICE, PADLOCK PROVISIONS.
2. NEW PUMP CONTROL PANEL TO INCLUDE NEMA 4X STAINLESS STEEL SINGLE DOOR ENCLOSURE WITH FAST OPEN LATCHES, PAD LOCK HASP, AND SURGE PROTECTIVE DEVICE, PADLOCK PROVISIONS.
3. NEW MANUAL TRANSFER SWITCH, 60A, 120/208V, 3–POLE, NEMA 3R, PADLOCK PROVISIONS.
4. NEW GENERATOR PLUG.
5. NFPA 70E COMPLIANT ARC–FLASH LABEL, OUTDOOR RATED, UV RESISTANT.



GROUND ROD AND TEST WELL
N.T.S.



NOTE:
SPARE CONDUITS SHALL STUB-UP 6" AGL. PROVIDE YELLOW NYLON ROPE IN EACH. CAP AND LABEL EACH END AS SPARE.

ELECTRICAL TRENCH DETAIL
N.T.S.

ELECTRICAL SPECIFICATIONS

1. GENERAL - THE FOLLOWING ARE ABBREVIATED SPECIFICATIONS. ALL ITEMS NECESSARY FOR A COMPLETE AND OPERABLE JOB (TO THE SATISFACTION OF THE OWNER) WHETHER SHOWN OR IMPLIED SHALL BE HELD AS THE RESPONSIBILITY OF THIS CONTRACTOR.

2. SCOPE OF WORK - THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO INSTALL ALL ELECTRICAL DEVICES, EQUIPMENT, WIRING ETC. AS SHOWN OR IMPLIED ON THE DRAWINGS AND PROVIDE A COMPLETE OPERATIVE SYSTEM TO THE SATISFACTION OF THE OWNER.

3. CODES AND ORDINANCES - ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C. AND OTHER APPLICABLE CODES AND ORDINANCES, INCLUDING SUCH AS PERTAIN TO THE SAFETY AND HEALTH RELATIONS. CODES AND ORDINANCES SHALL TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS ONLY IN CASE OF CONFLICT.

4. PERMITS, LICENSES, CERTIFICATES OF INSPECTION - THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS INCIDENTAL TO WORK UNDER THIS CONTRACT. WHEN THE WORK IS COMPLETED, THE REQUIRED CERTIFICATES OF APPROVAL SHALL BE FURNISHED TO THE OWNER.

5. CUTTING, REPAIR AND BACKFILL - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CUTTING, SUBSEQUENT REPAIR AND REQUIRED BACKFILL FOR ALL ITEMS NECESSARY FOR ELECTRICAL PART OF THE CONTRACT. REPAIR AND BACKFILL ANY AREA DAMAGED TO THE SATISFACTION OF THE OWNER.

6. SITE VISIT - THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. NO EXTRAS WILL BE PERMITTED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. QUANTITIES OF MATERIALS SHALL BE PER CONTRACTORS MEASUREMENTS.

7. COORDINATION - INSTALLATION MUST BE COORDINATED WITH ALL OTHER TRADES. COORDINATE SHUTDOWN TIMES AND WORKING HOURS WITH BUILDING OWNER, INCLUDING OFF HOURS, WEEKEND AND HOLIDAY WORK AS REQUIRED.

8. DEMOLITION - ALL ELECTRICAL DEMOLITION WORK, INCLUDING MATERIAL REMOVAL FROM THE SITE, SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. BEFORE PROCEEDING WITH THE DEMOLITION WORK, THE CONTRACTOR SHALL OBTAIN FROM THE BUILDING OWNER A LIST OF ANY REMOVED ITEMS TO BE SALVAGED. ALL OTHER REMOVED MATERIALS AND EQUIPMENT SHALL BE PROPERLY DISCARDED OFF THE PREMISES.

9. LOCATIONS - THE LOCATIONS OF ALL ELECTRICAL DEVICES, EQUIPMENT AND CONDUIT, AS SHOWN ON THE DRAWING, IS APPROXIMATE. WHEN NOT SHOWN IN DETAIL, THE LOCATION OR ROUTING SHALL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF THE OWNER.

10. PANELBOARDS
1. PANELBOARDS SHALL BE FULLY RATED WITH BOLT-ON BREAKERS, COPPER BUS, AND AIC RATED TO WITHSTAND AVAILABLE FAULT CURRENT. REFER TO FAULT CURRENT SPECIFICATION SECTION FOR REQUIREMENTS. LOAD CENTER CONSTRUCTION IS NOT ACCEPTABLE. A TYPED PANELBOARD SCHEDULE SHALL BE INSTALLED IN THE FRONT COVER OF THE PANEL. APPROVED MANUFACTURERS: SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER, AND SIEMENS. SURFACE MOUNT PER DRAWINGS.
2. CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL.

11. SURGE PROTECTION - PANEL SUPPRESSORS (SPD)

1. PANEL MOUNTED SURGE SUPPRESSOR WITH THE MINIMUM FOLLOWING REQUIREMENTS:
   a. 30 AMP, 120/208V, CIRCUIT BREAKER DISCONNECT
   b. 120/208V, 50/60Hz, MOV DESIGN
   c. EMI/RFI NOISE REJECTION (-6 T0 -28dB @ 100kHz TO 100MHz)
   d. COMPLY WITH ANSI/IEEE CATEGORY C-62.41 & 62.45; UL1449 4th EDITION
   e. MCOV L-L:300; MCOV L-N:150
   f. MAXIMUM SURGE CURRENT: 50kA PER MODE, 100kA PER PHASE
   g. NOMINAL DISCHARGE CURRENT RATINGS: 3kA
   h. VPR L-L:1200, VPR L-N: 800
   i. APPROVED MANUFACTURERS: LEVITON OR SAME AS APPROVED PANELBOARD MANUFACTURER.

12. ELECTRICAL IDENTIFICATION
1. PROVIDE NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT. REFER TO NAMEPLATE DETAIL FOR REQUIREMENTS.
2. PROVIDE ALL FEEDERS AND BRANCH CIRCUIT WIRING WITH COLOR CODED VINYL TAPE WRAPPED A MINIMUM OF 1.5 TIMES AROUND CIRCUMFERENCE OF JACKET/SHIELDING TO DESIGNATE PHASE.
3. COLOR CODING OF CONDUCTORS FOR 120/240V, 1 PHASE, 3 WIRE SHALL BE AS FOLLOWS: PHASE A--BLACK; PHASE B--RED; NEUTRAL--WHITE.

13. FAULT CURRENT/ARC FLASH HAZARD ANALYSIS AND LABELS
1. CONTRACTOR SHALL CONDUCT A FAULT CURRENT CALCULATION TO ENSURE THE CORRECT AIC RATING OF NEW ELECTRICAL PANELBOARDS. THE RESULTS OF THESE STUDIES SHALL BE SUBMITTED WITH THE PANELBOARD SHOP DRAWINGS.
2. CONTRACTOR SHALL PROVIDE AN ARC-FLASH STUDY PER NFPA 70E AND PROVIDE LABELS ON ALL EQUIPMENT AS REQUIRED PER THE N.E.C.

14. GROUNDING AND BONDING - ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NEC AND ANY LOCAL CODES. ALL CONDUITS SHALL CONTAIN A GREEN COPPER CODE SIZE GROUND CONDUCTOR. PROVIDE ADDITIONAL 3/4"x10 COPPER CLAD GROUND ROD WITH TEST WELL(MIN. 10' APART) IF THE FIRST GROUND ROD RESISTANCE EXCEEDS 25 OHMS.

15. SPECIAL NOTES - ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IN WRITING PRIOR TO THE LETTING OF THE CONTRACT.

16. GUARANTEE - THE CONTRACTOR SHALL FURNISH THE OWNER WITH A WRITTEN GUARANTEE TO PROMPTLY REMEDY ALL DEFECTS WITHOUT CHARGE FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE AND INSPECTION.

17. WIRING - ALL CONDUCTORS SHALL BE MINIMUM #12 AWG COPPER FOR POWER, (90°C. SPECIFICATION).

18. RACEWAYS - ALL EXTERIOR CONDUITS ABOVE GRADE SHALL BE R.G.S., WEATHERPROOF FLEX CONNECTIONS WHERE REQUIRED. ALL UNDER GRADE CONDUITS SHALL BE PVC. WHERE NOT SPECIFIED ON THE DRAWINGS, CONTRACTOR SHALL SIZE CONDUIT PER NEC BASED ON WIRING REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE JUNCTION BOXES AND PULL BOXES AS REQUIRED.

19. MATERIALS - ALL MATERIALS AND EQUIPMENT SHALL BE NEW IN ORIGINAL CONTAINERS/WRAPPINGS, SHALL BE SPECIFICATION GRADE AND LABELED OR LISTED BY U.L. OR AN ACCREDITED TESTING ORGANIZATION AS REQUIRED BY LOCAL INSPECTORS.

20. CLEAN-UP - DAILY CLEAN-UP AND FINAL CLEAN-UP SHALL BE PERFORMED BY THIS CONTRACTOR TO THE SATISFACTION OF THE OWNER.

21. LICENSE - CONTRACTOR MUST BE LICENSED IN THE STATE, COUNTY AND CITY OF THE PROJECT SITE.

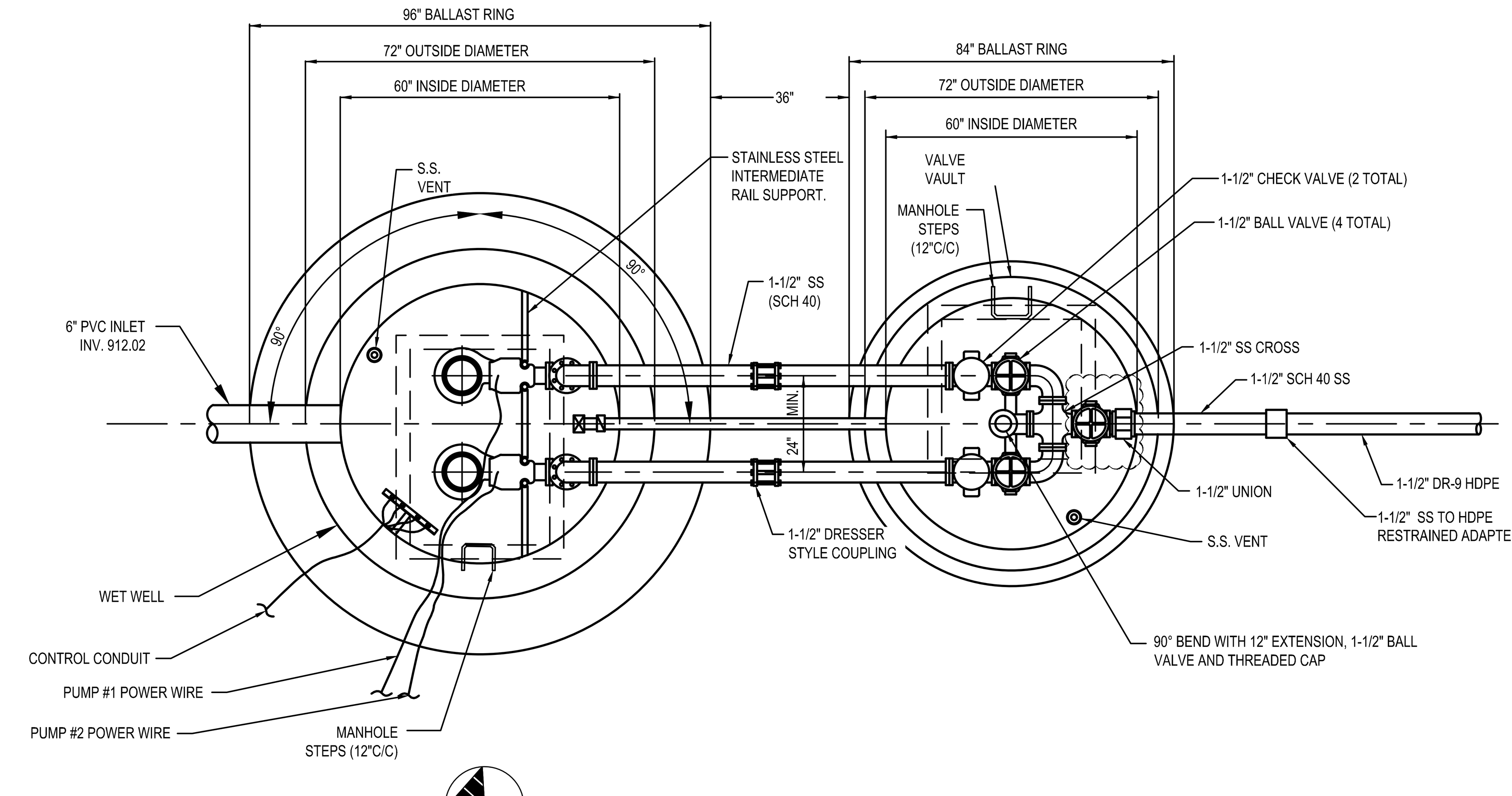
ELECTRICAL INSTALLATION NOTES

1. SEE PUMP STATION NOTES AND DETAILS FOR ADDITIONAL INFORMATION.
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS AS SHOWN ON THE PROPOSED ONE LINE DIAGRAM WITH PADLOCK PROVISIONS AND MOUNTED ON NEW UTILITY STRUCTURE UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL INSTALL 1" CONDUIT AND 6/C #14 AWG FROM DUPLEX PUMP CONTROLLER TO AUXILIARY RED LED ALARM BEACON.
4. THE CONTRACTOR SHALL FIELD ROUTE CONDUITS AND COORDINATE FINAL LOCATION WITH OWNER. MINIMUM COVER REQUIREMENTS SHALL COMPLY WITH NEC TABLE 300.5.
5. THE CONTRACTOR SHALL INSTALL ALL CONDUIT AND CONDUCTORS AS SHOWN ON THE PROPOSED ONE LINE DIAGRAM AND INSTALL ALL CONTROL AND INSTRUMENTATION WIRING IN CONDUIT PER PUMP STATION DETAILS. PROVIDE ALL REQUIRED CONNECTIONS AND TERMINATIONS TO ALLOW PUMP STATION START-UP, OPERATION AND APPROVALS.
6. THE CONTRACTOR SHALL PROVIDE SURGE PROTECTION (SPD) INTEGRAL TO PUMP CONTROL PANEL AND AC PANELBOARD, RESPECTIVELY, PER ELECTRICAL SPECIFICATIONS.
7. THE CONTRACTOR SHALL PROVIDE BATTERY BACKUP FOR THE ALARM SO THAT IT MAY STILL BE ACTIVATED DURING AN OUTAGE.

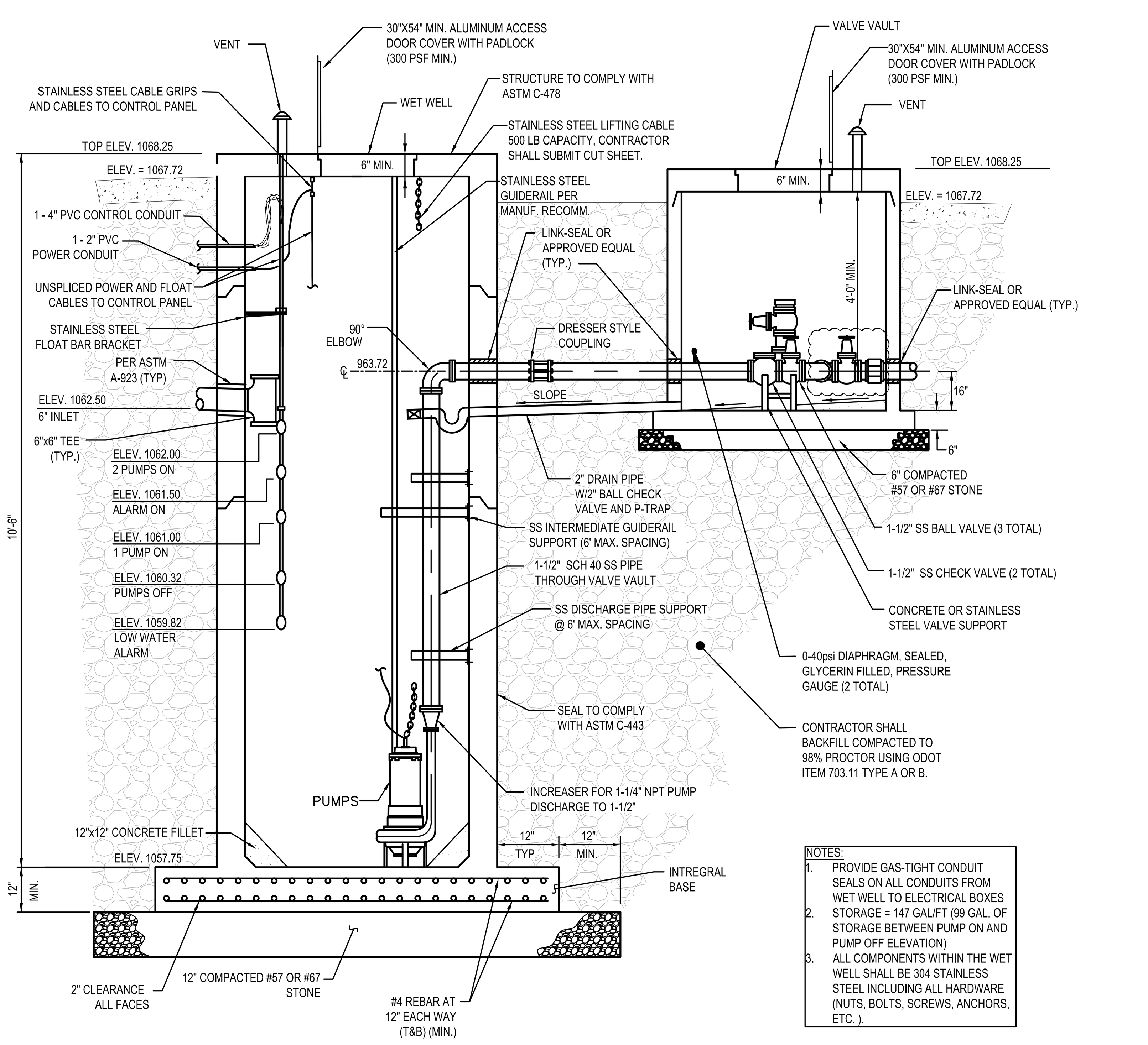
ACCESSORIES AND OPTIONS SPECIFICATIONS

PART		SPECIFICATIONS
PUMP		
	MAKE	HYDROMATIC
	MODEL	HPGX200
	TYPE	SUBMERSIBLE EXPLOSION PROOF GRINDER
	HORSEPWR	2
	VOLTAGE	208
	PHASE	3
	GPM	15
	TDH	33 FEET
	RPM	3,450
CONTROL PANEL		NEMA TYPE 4X S.S.
	VOLTAGE	60 HZ 120 VOLTS
COVERS		
	W WELL	30"x54" MIN.
	V VAULT	30"x54" MIN.
EXTENDED BASE		12" thick x 12" ext.
WINCH		NOT REQUIRED
VENTS		
	W WELL	3" w/mushroom cap – S.S.
	V VAULT	3" w/mushroom cap – S.S.

NOTES:
1. WET WELL AND VALVE VAULT TO BE 4500 PSI CONCRETE, MIN.



PUMP STATION PLAN VIEW
N.T.S.



NOTES:
1. PROVIDE GAS-TIGHT CONDUIT SEALS ON ALL CONDUITS FROM WET WELL TO ELECTRICAL BOXES
2. STORAGE = 147 GAL/FT (99 GAL. OF STORAGE BETWEEN PUMP ON AND PUMP OFF ELEVATION)
3. ALL COMPONENTS WITHIN THE WET WELL SHALL BE 304 STAINLESS STEEL INCLUDING ALL HARDWARE (NUTS, BOLTS, SCREWS, ANCHORS, ETC.).

PUMP STATION SECTION VIEW
N.T.S.

GPD GROUP®
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	03/03/2023	ADDENDUM 01

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

SANITARY PUMP STATION PLAN AND DETAILS

ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER

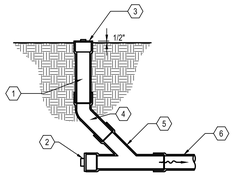
JOB NO.
2020377.05

C-133

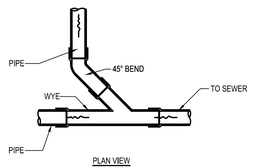
Drawing Name: O:\2020\2020377\05 - Sanitation Building\4_Working Files\00_CAD (2020)\C\Sheets\2020377.05 Plan Pump Station And Profile.dwg
March 2, 2023 7:28 PM - twright

KEYED NOTES

1. 6" DIA. CLEAN-OUT PIPE
2. CAP AND SEAL CONDUIT
3. THREADED CLEAN-OUT CAP
4. 45° BEND
5. WYE
6. SEWER

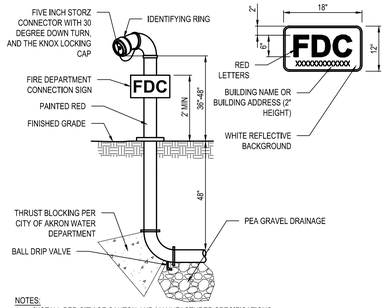


E1 CLEAN OUT (LAWN AREA)
N.T.S.



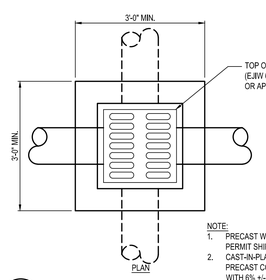
PLAN VIEW

E2 WYE CONNECTION
N.T.S.

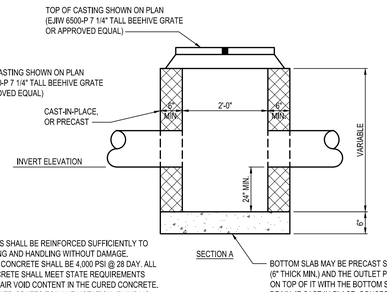


NOTES:
1. INSTALL PER CITY OF CANTON AND MANUFACTURER SPECIFICATIONS.
2. FDC MUST BE INSTALLED OUTSIDE OF BUILDING COLLAPSE ZONE. IF NOT POSSIBLE COORDINATE WITH THE CITY OF CANTON.
3. THE FDC RISER MUST BE PAINTED RED TO THE 5" KNOX ANTI-THEFT STORZ LOCKING CAP WITH 30 DEGREE TURN DOWN ELBOW AND MEASURING 36" - 48" FROM BOTTOM OF STORZ FITTING TO FINISH GRADE.
4. FDC SIGN SHALL BE MOUNTED ON FDC USING (2) ½" GALVANIZED STEEL "U" BOLT CLAMPS WITH WASHERS AND LOCKING NUTS. SIGN SHALL BE UNOBSTRUCTED FROM THE STREET. IF OBSTRUCTED THE CONTRACTOR SHALL COORDINATE NEW LOCATION WITH THE CITY OF AKRON.
5. MUST HAVE IDENTIFYING RING THAT STATES WHAT FDC SUPPLIES NEAR STORZ CONNECTION. (IE STANDPIPE OR SPRINKLER)
6. CONTRACTOR MUST CONTACT FIRE PREVENTION BUREAU FOR THRUST BLOCKING INSPECTION AND FDC SIGNAGE LOCATION.
7. FDC FIRELINE SHALL BE BURIED BELOW FROST LINE. FDC MUST SELF DRAIN TO A BALL DRIP VALVE WITH ENOUGH PEA GRAVEL TO SUPPORT DRAIN OF RISER AND FIRE LINE. DURING PRESSURE TESTING IF THE CONTRACTOR CHOOSES TO PLUG THE DRAIN THE INSTALLING UNDERGROUND FIRE LICENSE PERSONAL MUST HAVE AN CANTON FIRE INSPECTOR WITNESS INSTALLATION OF DRAIN VALVE WITH AN INSPECTION COST OF CURRENT HOURLY CHARGE (MINIMUM 1 HOUR).

D3 STANDALONE FDC WITH SIGN
N.T.S.



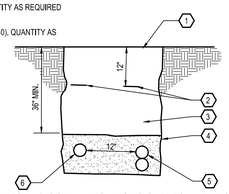
C3 CATCH BASIN
N.T.S.



NOTE:
1. PRECAST WALLS SHALL BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.
2. CAST-IN-PLACE CONCRETE SHALL BE 4,000 PSI @ 28 DAY. ALL PRECAST CONCRETE SHALL MEET STATE REQUIREMENTS WITH 6% +/- 2% AIR VOID CONTENT IN THE CURED CONCRETE.
3. ALL STORM SEWER GRATES TO HAVE NOTATION: 'DUMP NO WASTE, DRAINS TO WATERWAY', CONTRACTOR TO VERIFY WITH LOCAL JURISDICTION EXACT WORDING.

KEYED NOTES

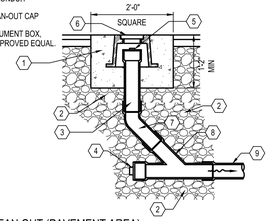
1. TOPSOIL & SEED, OR PAVEMENT AS DETAILED ELSEWHERE.
2. CONTINUOUS METALLIC WARNING TAPE
3. CLEAN SELECT GRANULAR BACKFILL
4. 6" CLEAN SAND ENVELOPE
5. 4" PVC ELECTRICAL CONDUITS (SCHEDULE 40), QUANTITY AS REQUIRED
6. 4" PVC TELEPHONE CONDUIT (SCHEDULE 40), QUANTITY AS REQUIRED



E6 ELECTRICAL & COMMUNICATIONS SERVICE TRENCH
N.T.S.

KEYED NOTES

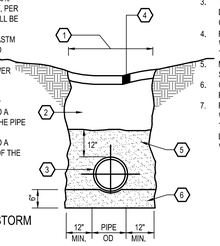
1. CONCRETE, MATCH PAVEMENT SPEC.
2. 6" (MIN.) COVER #57 STONE
3. 6" DIA. CLEAN-OUT PIPE
4. CAP AND SEAL CONDUIT
5. THREADED CLEAN-OUT CAP
6. CAST-IRON MONUMENT BOX, EJIW 1565 OR APPROVED EQUAL
7. 45° BEND
8. WYE
9. SEWER



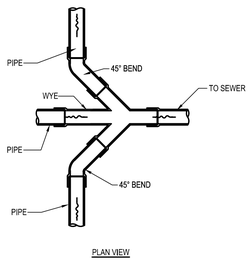
D1 CLEAN OUT (PAVEMENT AREA)
N.T.S.

KEYED NOTES

1. EXCAVATE WIDTH OF TRENCH AS NEEDED
2. PLACE SUITABLE SOIL OR GRANULAR BACKFILL IN 6" MAX. LIFTS. SUITABLE SOIL SHALL BE COMPACTED TO 90% MIN. (98% MIN. UNDER PAVEMENT) DRY DENSITY, PER ASTM D698. GRANULAR BACKFILL SHALL BE COMPACTED TO 75% (80% UNDER PAVEMENT) RELATIVE DENSITY, PER ASTM 4353. GRANULAR BACKFILL REQUIRED UNDER PAVEMENT.
3. PROPOSED STORM OR SANITARY SEWER
4. TOPSOIL, SEED, AND MULCHING OR PAVEMENT AS DETAILED ELSEWHERE.
5. NO. 57 OR NO. 67 AGGREGATE PLACED A MINIMUM OF 12" ABOVE THE TOP OF THE PIPE
6. NO. 57 OR NO. 67 AGGREGATE PLACED A MINIMUM OF 6" BELOW THE BOTTOM OF THE PIPE

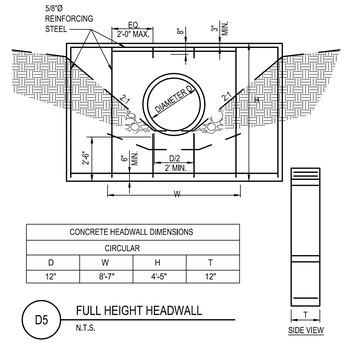


D2 SANTIARY AND STORM SEWER TRENCH
N.T.S.



PLAN VIEW

D4 DOUBLE WYE CONNECTION
N.T.S.

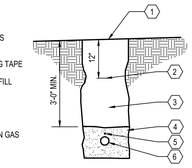


CONCRETE HEADWALL DIMENSIONS			
CIRCULAR			
D	W	H	T
12"	8'-7"	4'-5"	12"

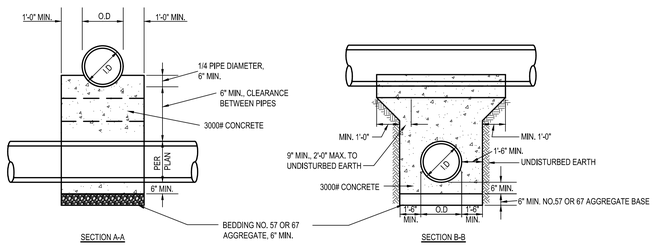
D5 FULL HEIGHT HEADWALL
N.T.S.

KEYED NOTES

1. TOPSOIL & SOD, OR PAVEMENT AS DETAILED ELSEWHERE.
2. CONTINUOUS METALLIC WARNING TAPE
3. CLEAN SELECT GRANULAR BACKFILL
4. 6" CLEAN SAND ENVELOPE
5. TRACKER WIRE
6. GAS SERVICE LINE PER DOMINION GAS STANDARDS



D6 GAS SERVICE TRENCH
N.T.S.



A1 CONCRETE ENCASEMENT MONOLITHIC CRADLING OF UPPER PIPE FOR CROSSINGS WITH LESS THAN 18" MINIMUM CLEARANCE
N.T.S.

TEMPORARY SEDIMENT BASIN CONSTRUCTION

1. WORK SHALL CONSIST OF INSTALLATION, MAINTENANCE AND REMOVAL OF THE SEDIMENT BASIN AT THE LOCATION DESIGNATED ON THE PLANS.
2. SEDIMENT BASIN SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
3. THE TEMPORARY SEDIMENT BASIN SIZING INCLUDING, BUT NOT LIMITED TO, SEDIMENT STORAGE VOLUMES, DEWATERING VOLUMES, EMBANKMENTS, SKIMMER CAPACITY, SPILLWAY CAPACITIES, AND OUTLET PIPE CAPACITIES SHALL BE CONSTRUCTED AS SHOWN ON DRAWINGS AND IN ACCORDANCE WITH LOCAL GOVERNING AUTHORITY AND THE OHIO EPA REQUIREMENTS.
4. THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MATERIAL. THE POOL AREA SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT CLEANOUT. THE SURFACE OF THE FOUNDATION AREA WILL BE THOROUGHLY SCARIFIED BEFORE PLACEMENT OF THE EMBANKMENT MATERIAL.
5. THE FILL MATERIAL SHALL BE FREE OF ALL SOD, ROOTS, FROZEN SOIL, STONES OVER 6 IN. IN DIAMETER, AND OTHER OBJECTIONABLE MATERIAL. THE PLACING AND SPREADING OF THE FILL MATERIAL SHALL BE STARTED AT THE LOWEST POINT OF THE FOUNDATION AND THE FILL SHALL BE BROUGHT UP IN APPROXIMATELY 6 IN. HORIZONTAL LAYERS OR OF SUCH THICKNESS THAT THE REQUIRED COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED. SPECIAL EQUIPMENT SHALL BE USED WHEN THE REQUIRED COMPACTION CANNOT BE OBTAINED WITHOUT IT. CONSTRUCTION SHALL NOT BE PERMITTED IF EITHER THE EARTH FILL OR COMPACTION SURFACE IS FROZEN.
6. THE SEDIMENT BASIN SHALL BE STABILIZED IMMEDIATELY FOLLOWING ITS CONSTRUCTION. IN NO CASE SHALL THE EMBANKMENT OR EMERGENCY SPILLWAY REMAIN BARE FOR MORE THAN 7 DAYS.
7. WARNING SIGNS AND SAFETY PRACTICES SHALL BE PLACED AROUND THE BASINS AND MAINTAINED OVER THE LIFE OF THE PRACTICE.
8. SEDIMENT BASINS SHALL BE REMOVED AFTER THE UPSTREAM DRAINAGE AREA IS STABILIZED OR AS INDICATED IN THE PLANS. DEWATERING AND REMOVAL SHALL NOT CAUSE SEDIMENT TO BE DISCHARGED. THE SEDIMENT BASIN SITE AND SEDIMENT REMOVED FROM THE BASIN SHALL BE STABILIZED.
9. AFTER ALL SEDIMENT PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, THE STRUCTURE SHALL BE CONVERTED TO ITS PERMANENT FORM AND ALL ASSOCIATED SEDIMENT SHALL BE REMOVED. THE AREA SHALL BE IMMEDIATELY SEEDED.

TEMPORARY SEDIMENT BASIN OPERATION AND MAINTENANCE:

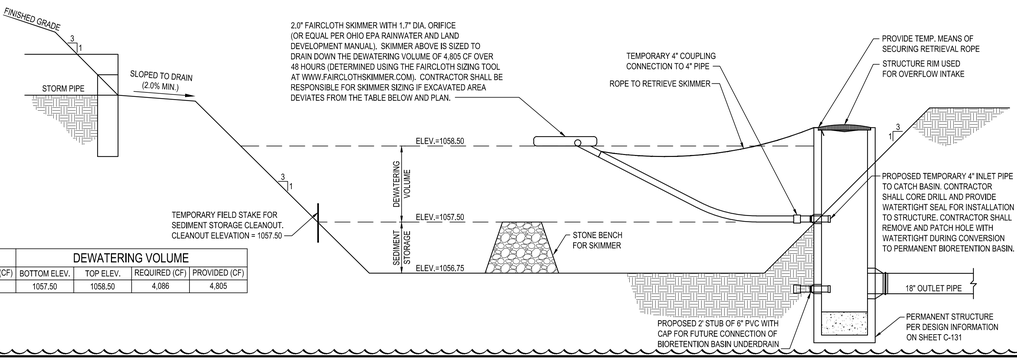
A MAINTENANCE PROGRAM SHALL BE ESTABLISHED TO MAINTAIN THE CAPACITY AND FUNCTION OF THE SEDIMENT BASIN. SEDIMENT BASINS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. NECESSARY ACTIVITIES ARE SHOWN AS FOLLOWS:

1. ESTABLISH VEGETATIVE COVER AND FERTILIZE AS NECESSARY TO MAINTAIN A VIGOROUS COVER IN AND AROUND THE SEDIMENT BASIN.
2. REMOVE UNDESIRABLE VEGETATION PERIODICALLY TO PREVENT GROWTH OF TREES AND SHRUBS ON THE EMBANKMENT AND SPILLWAY AREAS.
3. PROMPTLY REPAIR ERODED AREAS. RE-ESTABLISH VEGETATIVE COVER IMMEDIATELY WHERE SCOUR EROSION HAS REMOVED ESTABLISHED SEEDING.
4. PROMPTLY REMOVE ANY BURROWING RODENTS THAT MAY INVADE AREAS OF THE EMBANKMENT.
5. REMOVE TRASH AND DEBRIS THAT MAY BLOCK SPILLWAYS AND ACCUMULATE IN THE POND.
6. REMOVE SEDIMENT FROM BASIN WHEN IT FILLS THE DESIGN DEPTH OF THE SEDIMENT STORAGE ZONE. THIS ELEVATION SHALL BE MARKED ON A CLEANOUT STAKE NEAR THE CENTER OF THE BASIN.
7. CHECK POINTS OF INFLOW TO AND OUTLETS TO ENSURE DRAINAGE IS NOT CAUSING EROSION AND THAT OUTLETS ARE NOT CLOGGED.
8. AFTER THE ENTIRE CONSTRUCTION PROJECT IS COMPLETED, TEMPORARY SEDIMENT BASIN SHOULD BE DEWATERED AND REGRADED TO CONFORM TO THE CONTOURS OF THE BIORETENTION BASIN SPECIFIED IN THE FINAL SITE DEVELOPMENT DOCUMENTS. PERMANENT FEATURES TO THE OUTLET CONTROL STRUCTURE SHALL BE INSTALLED AND THE AREA SEEDED, MULCHED AND STABILIZED AS NECESSARY.

SEDIMENT BASIN NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING REQUIRED SEDIMENT STORAGE AND DEWATERING VOLUME AS PROVIDED IN TABLE WITHIN THE FOOTPRINT OF THE EXTENDED DETENTION BASIN, USING THE FINAL BASIN SHAPE. CONTRACTOR SHALL REFER TO THE OHIO EPA RAINWATER AND LAND DEVELOPMENT MANUAL CHAPTER 6, SECTION 1 SEDIMENT BASINS FOR ADDITIONAL INFORMATION.
2. SEE DETAIL E3 THIS SHEET AND C-131 FOR STRUCTURE SPECIFICATIONS AND DESIGN INFORMATION. CONTRACTOR SHALL UTILIZE OUTLET CONTROL STRUCTURE FEATURES FOR TEMPORARY SEDIMENT CONTROL.
3. AFTER CONTRIBUTING DRAINAGE AREA TO SEDIMENT BASIN HAS BEEN STABILIZED, CONTRACTOR SHALL REMOVE THE 4" COUPLING CONNECTION, PATCH HOLE WITH WATERTIGHT MATERIAL AND INSTALL PERMANENT FEATURES AS SHOWN ON DETAIL E3 THIS SHEET. CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT IN BASIN AND IN CONTROL STRUCTURE SUMP AND DISPOSE OF MATERIAL OFFSITE.
4. AFTER SITE STABILIZATION, CONTRACTOR SHALL MEET DESIGN GRADES AS SHOWN ON THE GRADING PLAN. ALL ACCUMULATED SEDIMENT SHALL BE DISPOSED OF OFFSITE.
5. SKIMMER AND STONE BENCH SHALL BE REMOVED PRIOR TO FINAL GRADING FOR BIORETENTION BASIN.

TEMPORARY SEDIMENT BASIN DESIGN DATA			SEDIMENT STORAGE				DEWATERING VOLUME			
	DRAINAGE AREA (AC)	DISTURBED AREA (AC)	BOTTOM ELEV.	TOP ELEV.	REQUIRED (CF)	PROVIDED (CF)	BOTTOM ELEV.	TOP ELEV.	REQUIRED (CF)	PROVIDED (CF)
SEDIMENT BASIN	2.27	2.27	1056.75	1057.50	2,270	3,104	1057.50	1058.50	4,086	4,605



A3 TEMPORARY SEDIMENT BASIN
N.T.S.

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311-1073
330.572.2100 Fax: 330.572.2101

REV.	DATE	DESCRIPTION
1	03/03/2023	ADDENDUM 01

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

DETAILS

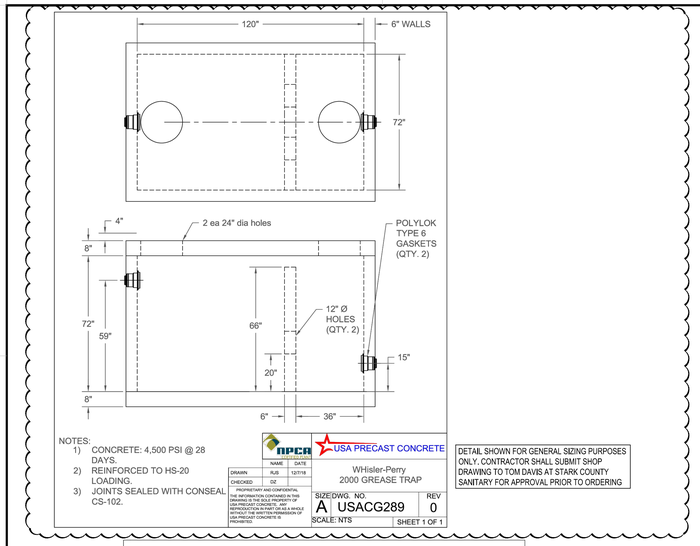
ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	TJW

JOB NO.
2020377.05

C-502

Drawing Name: O:\2020\2020377\05 - Sanitation Building\4_Working Files\00_CAD (2020)\C\Sheets\2020377.05 Notes And Details.dwg
Mar 02, 2023 7:37 PM - twright



NOTES:
1) CONCRETE: 4,500 PSI @ 28 DAYS.
2) REINFORCED TO HS-20 LOADING.
3) JOINTS SEALED WITH CONSEAL CS-102.

NPCA | USA PRECAST CONCRETE

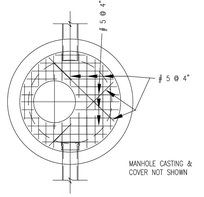
	NAME	DATE
DRAWN	RJS	12/7/18
CHECKED	DZ	

Wilsler-Perry
2000 GREASE TRAP

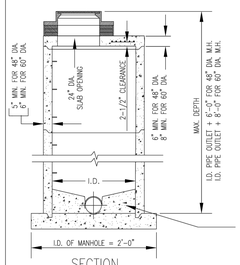
SIZE DWG. NO. A USACG289 | REV 0
SCALE: NTS | SHEET 1 OF 1

DETAIL SHOWN FOR GENERAL SIZING PURPOSES ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWING TO TOM DAVIS AT STARK COUNTY SANITARY FOR APPROVAL PRIOR TO ORDERING

DWG.NO. 11



PLAN



SECTION

MANHOLE I.D.
48" FOR SEWERS 8" THRU 21"
60" FOR SEWERS 24" THRU 36"

SEE DRAWINGS:
NO. 12 FOR GRADE ADJUSTMENT.
NO. 13 FOR CASTING DETAILS.
NO. 33 & 34 FOR PAVEMENT DETAIL AROUND CASTING

NOTES:
PRECAST MANHOLES SECTIONS SHALL MEET ASTM C478. MANHOLE JOINTS SHALL MEET ASTM C443. CONCRETE IN MANHOLES SHALL MEET THE SPECIFICATION ITEM NOS. 4 & 16.

MANHOLE STEPS SHALL BE, M.A. IND. PS-1-PF REINFORCED PLASTIC STEPS OR APPROVED EQUAL. IF TOP STEP IS IN 24" DIA. OPENING IT MAY PROJECT NO MORE THAN 3-8".

FOR PVC & ABS PIPE CONNECTIONS USE ASTM C-923 FLEXIBLE GASKET SUCH AS A-LOK, DURA SEAL, XL, KOR-N-SEAL OR APPROVED EQUAL. THIS CONNECTION IS ALSO ACCEPTABLE FOR VCP.

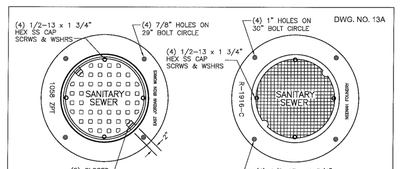
TAR STRIPS SHALL BE USED AT ALL JOINTS. THE CONTRACTOR SHALL APPLY TAR OVER THE CEMENT PARGING ON THE OUTSIDE OF THE ADJUSTMENT RINGS AND OVER THE MANHOLE CASTING EXTERIOR.

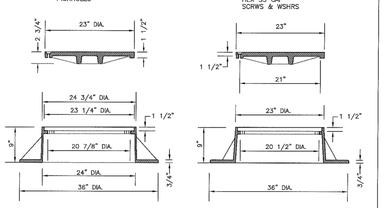
REVISION	DATE	BY
ADDED NOTE	2/22/96	RLW
ADDED I.D.	5/1/96	RLW
REVISED NOTES	7/25/05	BGD
REVISED NOTES	1/24/07	ARM

STARK COUNTY SANITARY ENGINEERING DEPT.
DETAIL DWG.NO. 11
ITEM NO. 16
SHALLOW PRECAST MANHOLE

APPD 12/95

DWG. NO. 13A





EAST JORDAN IRON WORKS NO. 1058 ZPT WATERTIGHT COVER

NEENAH R-1916-C WATERTIGHT COVER

WATERTIGHT CASTING AND COVER

NOTE: COVER SHALL BEAR THE WORDS: "SANITARY SEWER" OR "SAN. SEWER"

NEENAH R 1916 C
EAST JORDAN IRON WORKS NO. 1058 ZPT OR APPROVED EQUAL

ALL CAST IRON SHALL CONFORM TO ASTM A48, CLASS 30B IRON.

CASTING WEIGHT: APPROX. 300 LBS.
COVER WEIGHT: APPROX. 131 LBS.

APPD 01/2013

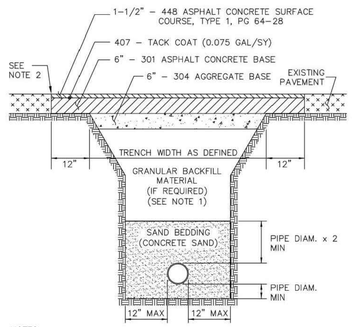
REVISION	DATE	BY
REDRAWN	1/10/13	ARM

STARK COUNTY SANITARY ENGINEERING DEPT
DETAIL DWG. NO. 13A
ITEM NO. 16
WATERTIGHT MANHOLE CASTING & COVER

NO SCALE

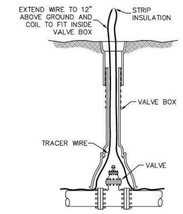
A1 STARK COUNTY SANITARY DETAILS
N.T.S.

TRENCH DETAIL – C909 PIPE
DWG.NO.C385

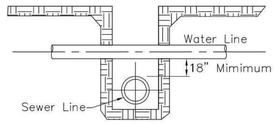


NOTES:
1. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION WITHIN THE RIGHT-OF-WAY REGARDING BACKFILL REQUIREMENTS.
2. SAW CUT EXISTING PAVEMENT, SEAL JOINT PER ODOT ITEM 423 – CRACK SEALING, TYPE IV. INCLUDE COST IN BID PRICE FOR THE PROPOSED PAVEMENT.
3. IF ADJACENT PAVEMENT IS DAMAGED OR UNDERMINED DURING CONSTRUCTION, ADDITIONAL PAVEMENT SHALL BE SAW CUT AND REMOVED IN ORDER TO PROVIDE A SOUND PAVEMENT EDGE.

TRACER WIRE AT VALVE BOX DETAIL
DWG.NO.C401



VERTICAL WATER MAIN CLEARANCE
(C186)

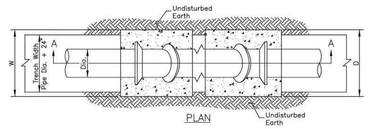


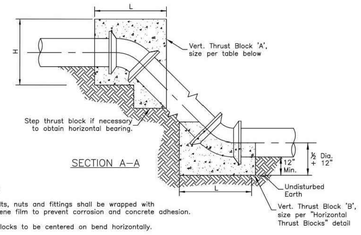
SECTION

NOTES:
1. If joint on water main is within limits of sewer trench, install mechanical bell joint clamp
2. If clearance is less than 18":
   – For Storm sewers, concrete encase the storm sewer pipe, 6 ft. on each side of water main.
   – For Sanitary sewers, replace the sanitary sewer pipe with PVC C900 pipe, 10 ft. on each side of water main. Approved couplings shall be used to tie onto the existing sewer.

   Cost for the above shall be included in the unit prices bid for all items in the proposal.
3. In no case shall the sewer pipe contact any water main, service line or appurtenance.

CONCRETE THRUST BLOCKS FOR VERTICAL BENDS ON WATER MAINS
POURED IN PLACE (CLASS C)
(C147)





NOTES:

Pipe, bolts, nuts and fittings shall be wrapped with polyethylene film to prevent corrosion and concrete adhesion.

Thrust blocks to be centered on bend horizontally.

Thrust block 'A' shall be off centered on bend vertically to shift the majority of the block above the fitting.

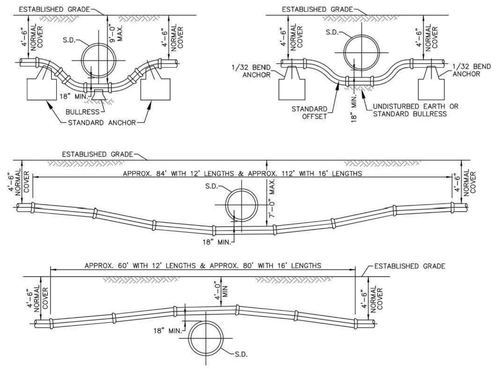
All joints to be Megalugged.

Concrete thrust blocks to be placed on all vertical bends.

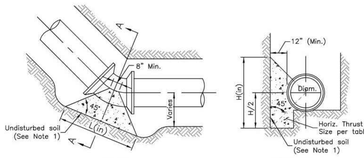
SIZE OF PIPE	DEGREE OF BEND								
	11 ¼°			22 ½°			45°		
	L	W	H	L	W	H	L	W	H
6"	12	48	18	15	43	36	28	55	24
8"	12	63	24	18	57	34	36	57	33
12"	20	54	36	37	62	37	48	62	51
16"	31	65	38	55	65	39	65	65	65
20"	40	56	50	57	66	59	82	74	68
24"	48	60	60	67	72	66	91	91	72

SIZE OF PIPE	V. (cy)	V. (cy)	V. (cy)
	11 ¼°	22 ½°	45°
6"	0.2	0.5	0.8
8"	0.4	0.7	1.4
12"	0.8	1.7	3.1
16"	1.6	3.0	5.6
20"	2.4	4.8	8.8
24"	3.5	6.9	12.7

WATER MAIN CROSSING STORM DRAIN
(C187)



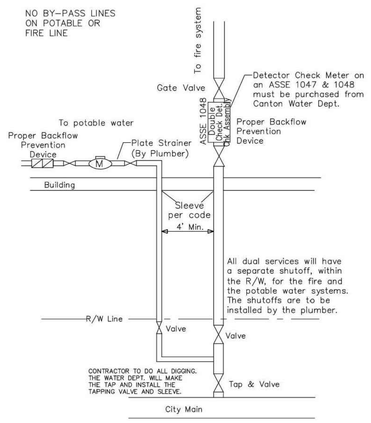
HORIZONTAL THRUST BLOCKS
(C130)



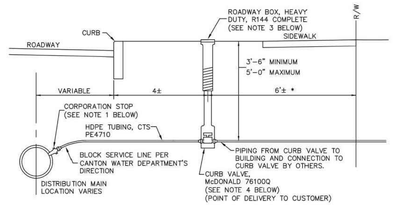
NOTES:
1. Thrust blocks shall be placed against undisturbed soil. Where it is not possible, the fill between the bearing surface and undisturbed soil must be compacted to at least 90% Standard Proctor density.
2. Pipe, bolts, nuts and fittings shall be wrapped with polyethylene film to prevent corrosion and concrete adhesion.
3. All joints to be Megalugged.

SIZE OF PIPE	DEGREE OF BEND							
	11 ¼°		22 ½°		45°		90°	
	L	H	L	H	L	H	L	H
6"	16	8	16	10	24	14	32	18
8"	16	10	21	14	31	18	44	24
12"	21	16	32	20	48	26	66	36
16"	29	20	42	28	66	34	90	46
20"	37	24	50	36	73	48	107	60
24"	46	28	64	40	93	54	128	72

TYPICAL DUAL SERVICE
REVISED 1-05-17 (C109)



TYPICAL WATER SERVICE
(C94)



NOTES:
1.) CORPORATION STOP AND ASSEMBLY SHALL BE AS FOLLOWS:
1" CORP. STOP ON DIP: INSTALL AT THE 2:00 POSITION, A MUELLER B-25008 CORPORATION STOP WITH A COMPRESSION CONNECTION.
1" CORP. STOP ON PVC C909: INSTALL AT THE 2:00 POSITION, A MUELLER B-25008 CORPORATION WITH A COMPRESSION CONNECTION AND A FORD, STAINLESS STEEL, EPOXY COATED TAPPING SADDLE (FC202 STYLE).
1 ½" CORP. STOP: INSTALL AT THE 2:00 POSITION, A MUELLER B-25008 CORPORATION STOP WITH A COMPRESSION CONNECTION AND A FORD, STAINLESS STEEL, EPOXY COATED TAPPING SADDLE (FC202 STYLE).
2" CORP. STOP: INSTALL AT A 45° ANGLE, A MUELLER H-10003 CORPORATION STOP WITH 2" IRON TOP, A STANDARD NO LEAD BRASS 45° ELBOW AND A MUELLER H-15428 COMPRESSION MALE WITH INSERT COUPLING. ASSEMBLY SHALL ALSO CONSIST OF A FORD, STAINLESS STEEL, EPOXY COATED TAPPING SADDLE (FC202 STYLE).

2.) A SERVICE CLAMP MUST BE USED WHEN THE MAIN SIZE IS 2 INCH OR SMALLER.

3.) HEAVY DUTY VALVE BOXES, COMPLETE, MUST BE USED IN PLACE OF ROADWAY BOXES WHEN THE CURB VALVE IS LOCATED IN ROADWAYS OR ASPHALT DRIVES.

4.) WHEN CONNECTING A NEW 1" SERVICE TO AN EXISTING 3/4" SERVICE, THE CURB VALVE SIZE SHALL BE A 1"x3/4" REDUCING CURB VALVE.

5.) BRASS REDUCING BUSHINGS OR SWIVEL ELLS WILL NOT BE ALLOWED.

6.) APPROVED EQUALS MAY BE USED IN PLACE OF SPECIFIED ITEMS.

CITY OF CANTON
ACCEPTABLE WATER SERVICE MATERIALS

1", 1-1/2" AND 2"

- TYPE "K" COPPER
  OR
- POLYETHYLENE SERVICE TUBING - Polyethylene water main and service tubing 2" and under shall be copper tube size, SDR 9, with a minimum pressure class of 200 psi and meet standards ASTM-D2737 PE4710 and AWWA C901. The acceptable tubing is:
  - CP Chem Performance Pipe Driscoplex 5100-Ultra-line
  - Charter Plastics Inc. Blue Ice
  - Endot Endopure
  - ADS Polyflex.

GREATER THAN 2"

4" TO 8"
- DUCTILE IRON PIPE CLASS 52
  OR
- C909 (PVCO) 235 psi

12"
- DUCTILE IRON PIPE CLASS 53

GREATER THAN 12"
- DUCTILE IRON PIPE CLASS 54

NO EXCEPTIONS

I:\WATER\WORDPERF\ENGINEER\DRISCO_2020.wpd

GPD GROUP
Gloos, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2101

REV.	DATE	DESCRIPTION
1	03/03/2023	ADDENDUM 01

FOR REFERENCE ONLY

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

CITY WATER AND COUNTY SANITARY DETAILS

ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	TJW

JOB NO. 2020377.05

C-503

Sharon Fence DISTRIBUTORS

CERTIFIED NaVOBA VETERAN'S OWNED

Aluminum Slide Gate Specifications

1. **Scope**:
Specification for the materials and construction requirements for chain link cantilever slide gates with enclosed aluminum track and hardware manufactured to comply with ASTM F-1184, ASTM F-2200, and Underwriter's Laboratory UL-325 safety standards.

2. **Manufacturer**:
Sharon Fence Company
One Miller Court
Sharon, PA 16164
Phone (724) 981-6050 Fax (724) 346-0234 www.sharonfence.com

3. **Warranty**: Sharon Fence warrants this product for a period of 5 years when installed in accordance with manufacturers standards and maintained in proper manner.

4. **General**:
A. Gate Frame: The entire frame and support members shall be manufactured with the same aluminum material, alloy and temper 6061-T6 (ASTM 1184). Fabricate chain link cantilever slide gates in accordance with ASTM F-1184, Type II, Class 2, using 2 inch square aluminum outside vertical members (1.10 lb/ft). Members are welded together with a continuous top track (3.83 lb/ft) and bottom rail to form a rigid one-piece frame. Vertical interior support uprights will be positioned equally throughout the frame
structure.

Standard Opening	Overall Gate Length	Bays
15 ft. to 18 ft.	26' 3"	4
19 ft. to 22 ft.	31' 3"	5

For 15 ft. – 22 ft. opening gates, the vertical interior support uprights will be 1.5 inch square aluminum (6061-T6) tubing (0.809 lb/ft). The bottom rail shall be a continuous one-piece 2 inch square aluminum (6061-T6) tube (1.10 lb/ft).

Standard Opening	Overall Gate Length	Bays
23 ft. to 26 ft.	37' 3"	6
27 ft. to 30 ft.	42' 3"	7

For 23 ft. – 30 ft. opening gates, the vertical interior support uprights will be 2-inch square aluminum (6061-T6) tubing (1.10 lb/ft). The bottom rail shall be a continuous one-piece 2-inch by 4-inch rectangular tube (1.69 lb/ft). An additional 2-inch square support rail shall be welded adjacent to the top track horizontal rail. The cantilever overhang will be 40% or greater for any given opening size.
B. There will be two truck assemblies (secured to the guide posts) which operate inside the top track. They shall be swivel type zinc die cast with 4 sealed and lubricated ball bearing rollers (2" dia., 9/16" width) and two side rollers (front and back) to assure alignment in the top track.
C. The top track and rail is an enclosed combination one-piece aluminum (6061-T6) extrusion weighing 3.83 lb/ft. Top track to withstand a 2,000 lb. reaction load.
D. Chain link fabric shall be installed over the entire gate length (UL-325) which will create a universal design (gate can be used for right or left hand applications). Fabric will be attached securely with tension bars that are attached on either frame end by tension bands. High tensile wire will provide additional fabric support across the top and bottom of the gate structure.
E. Diagonal bracing shall be 1"x2" aluminum (6061-T6) tubing (0.809 lb/ft) welded to the uprights to form a rigid bracing system that does not require field adjustment.
F. Bottom guide wheel assemblies have two 3" dia. rubber wheels (with protective covers – UL325) straddling the bottom horizontal gate rail. One assembly shall be attached to each guide post.
G. Gate post brackets, latch, and keepers are galvanized steel.
H. Gate posts shall be 4" OD schedule 40 pipe (9.1 lb/ft). Two support posts and 1 latch post shall be installed.

5. **Installation**: Gate posts shall be set in concrete (3000 psi compressive strength). The footing shall be 16" in diameter with depth approximately 6" deeper than the post bottom. Deeper footing may be required in areas with loose or soft soil. Set post bottom at least 36" below the surface. Posts must be plumb. Install gates plumb, level and secure for the full opening size making sure they move free of obstructions. Adjust hardware for smooth operation.

Dated 8.15.2019

D1 SLIDING GATE DETAILS
N.T.S.

CSL24UL

24VDC HIGH-TRAFFIC COMMERCIAL SLIDE GATE OPERATOR

Ideal for the most demanding slide gate environments.

PRODUCT HIGHLIGHT

BATTERY BACKUP
Provides up to 208 Cycles or 24 Days of Standby Power

RELIABLE

BATTERY BACKUP PROVIDES SEAMLESS ACCESS BY PROVIDING STANDBY POWER WHEN THE POWER IS DOWN.

COMMERCIAL GEAR-DRIVEN TRANSMISSION PROVIDES UNSURPASSED RELIABILITY.

SMOOTH START/STOP OPERATION AND MID-TRAVEL REVERSAL EXTEND OPERATOR HARDWARE LIFE.

WARRANTY 5 YEARS COMMERCIAL, 7 YEARS RESIDENTIAL.

SMART

myQ® TECHNOLOGY ENABLES YOU TO SECURELY CONTROL AND MONITOR YOUR GATE OPERATOR FROM ANYWHERE.*

WIRELESS DUAL-GATE COMMUNICATION SYNCHRONIZES GATE OPENING/CLOSING AND ELIMINATES EXPENSIVE DRIVEWAY TRENCHING COSTS.

SAFE AND SECURE

SECURITY+ 2.0® SAFEGUARDS ACCESS WITH AN ENCRYPTED TRI-BAND SIGNAL TO VIRTUALLY ELIMINATE INTERFERENCE AND OFFER EXTENDED RANGE.

QUICK CLOSE AND ANTI-TAILGATE QUICKLY SECURES THE PROPERTY, PREVENTING UNAUTHORIZED ACCESS.

FIRE DEPARTMENT COMPLIANCE ALLOWS GATE TO AUTO-OPEN UPON LOSS OF AC POWER OR BATTERY DEPLETION.

MANUAL DISCONNECT WHEN UNLOCKED ALLOWS GATE TO BE OPENED MANUALLY.

UL® LISTED GATE OPERATORS WITH MONITORED SAFETY ENTRAPMENT PROTECTION DEVICES.

*Cellular data or Wi-Fi® connection required. Test equipment regularly and follow safety instructions.

INCLUDED ACCESSORIES:

MONITORED RETRO-REFLECTIVE PHOTO EYE Enhanced retro-reflective photo eye now with heater and wider beam; engineered to stay aligned; max. range: 50 ft. — LMRRUL

MONITORED SMALL PROFILE RESISTIVE EDGE Pressure-sensitive edge stops and/or reverses gate when obstructed. — SSOSAL

SAFETY ADD-ONS:

MONITORED THROUGH-BEAM PHOTO EYES Enhanced through-beam now with wider beam and heater for high performance in most environments; max. range: 90 ft. — LMTBUL

MONITORED WIRELESS EDGE KIT Low-energy Bluetooth® connection between a LiftMaster Monitored Resistive Edge and the gate operator; max. range: 130 ft.** — LMWEKITU

MONITORED SAFETY ENTRAPMENT EDGES Full line of Small, Large and Wraparound Profile Edges that sense obstructions. — EDGES

TOTAL SOLUTION ACCESSORIES:

CONNECTED ACCESS PORTAL, HIGH CAPACITY Cloud-based access control for residential communities. — CAPXL

PLUG-IN LOOP DETECTOR Prevents the gate from closing on a vehicle in the path; power efficient for maximum cycles on Battery Backup. — LOOPDETLM

INTERNET GATEWAY Connects myQ-enabled gate operators to the internet and enables control through the myQ App. — 828LM

**Wireless kit for up to 4 transmitters and 2 resistive edges per transmitter.

LiftMaster ELITE SERIES

MASTERFUL ENGINEERING.

CSL24UL
24VDC HIGH-TRAFFIC COMMERCIAL SLIDE GATE OPERATOR

MECHANICS
- **24VDC** Continuous Duty
- **Operator Duty Rating:** High-Cycle, High-Temperature Continuous Duty
- **Wormgear Reduction:** Commercial Oil-Bath Gearbox Provides 10:1 Wormgear Reduction
- **Chain:** #41 Black Oxide (30 ft. Supplied)

POWER
- **120/230V** Single-Phase
- **Optional Kit (3PHCONV)** to Convert an Input Voltage of 208/230/460/575VAC to an Output Voltage of 120VAC
- **Solar-Ready Ultra-Reliable System** Delivers Power When and Where You Need It (LMRRUL/LMTBUL Heater Option Not Recommended for Solar Applications)
- **Accessory Power:** 24VDC 500mA Output; Switched and Unswitched Power

COMMERCIAL-GRADE DESIGN
- **Chassis** Constructed with 1/4 in. Gold Zinc-Plated Steel for Rust Prevention
- **Cover:** High-Density, UV-Resistant Polycarbonate 2-Piece Cover for Excellent Heat and Corrosion Resistance
- **UL® Usage Classification:** I, II, III and IV
- **Operator Weight:** 140 lbs.

TEMPERATURE SPECIFICATIONS
WITHOUT HEATER -4°F (-20°C)
WITH HEATER (HTR) -40°F (-40°C)
WITHOUT HEATER 140°F (60°C)
WITH HEATER (HTR) 140°F (60°C)

SLIDE RATING
1,500 lbs.
50 ft.

BATTERY BACKUP OPERATION

Battery	Cycles	Standby Time
(2) 7Ah	208	24 Days
(2) 33Ah	1,179	105 Days

(Cycles and Standby Time Based on Stand-Alone System)

GATE SPEED 12" per second

STANDARD FEATURES.

INHERENT REVERSING SENSOR
- Detects Obstructions and Reverses Gate When Closing or Stops/Reverses Gate When Opening

POSILOCK®
- Automatically Closes the Gate When It Is Pushed from the Closed Limit

MONITORED SAFETY INPUTS
- 3 Main Board, 3 Expansion Board

SECURITY+ 2.0® ON-BOARD RADIO RECEIVER
- Tri-Band 310/315/390 MHz Frequency
- Up to 50 Remote Controls (Unlimited with 811LM/813LM)

LED DIAGNOSTIC DISPLAY
- Simplifies Installation and Troubleshooting

PROGRAMMABLE AUXILIARY RELAYS
- Make Adding Additional Features Easy

HOMELINK® COMPATIBLE
- Version 4.0 or Higher*

*May require an external adapter depending on the model and year of your vehicle. Visit HomeLink.com for additional information.

SUPPORT.

For Support Tools and Training Videos, Visit **LiftMasterTraining.com**

For More Information on Gate Operators, Visit **LiftMaster.com/UL325Gates**

To Find the Right Perimeter Access Solution for You, Visit **LiftMaster.com/Solution-Generator**

Sales Support: **800.282.6225**
Technical Support Center: **800.528.2806**
To Order: **800.323.2276**

LiftMaster ELITE SERIES

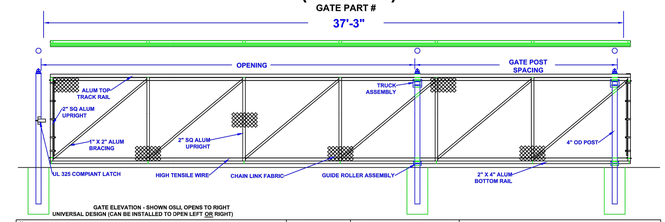
PRODUCT GUIDE CSL24UL
24VDC HIGH-TRAFFIC COMMERCIAL SLIDE GATE OPERATOR

GPD GROUP
Gbura, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311-1073
330.572.2100 Fax 330.572.2101

sharon fence

23'-26' X 6' HIGH ALUMINUM SLIDE GATE (ASG-266)

GATE PART #



GATE ELEVATION - SHOWN OPEN, OPENS TO RIGHT
UNIVERSAL DESIGN (CAN BE INSTALLED TO OPEN LEFT OR RIGHT)

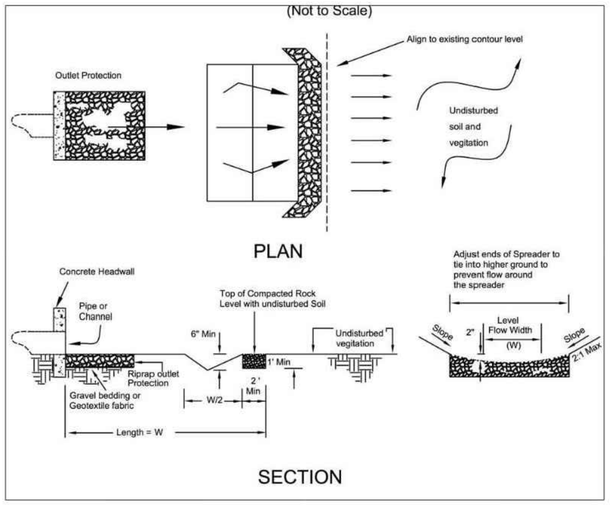
Notes.
1. SPECIFICATIONS CAN BE CHANGED BY SHARON FENCE COMPANY ONLY.
2. FOOTING TO BE (4)X POST WIDTH, MIN DEPTH TO BE 36" [914 MM].
3. GATE IS DESIGNED TO BE MANUALLY OPERATED. HARDWARE WILL VARY.
4. GATES TABULATED ARE UL-325 COMPLIANT.
5. GATES ARE UNIVERSAL (OPEN TO LEFT OR RIGHT).
6. TOP TRACK AND RAIL: ENCLOSED 1-PC ALUMINUM (6061-T6) EXTRUSION (3.83 LBS PER LF)
REINFORCED BY REINFORCED BY WELDING AN ADDITIONAL 2" SQ. ALUMINUM LATERAL SUPPORT RAIL.
7. 1" X 2" ALUMINUM DIAGONAL BRACING WELDED TO 2" SQUARE UPRIGHTS.

OPENING	GATE POST SPACING
23'	14'-0"
24'	13'-0"
25'	12'-0"
26'	11'-0"

Approved By: _____

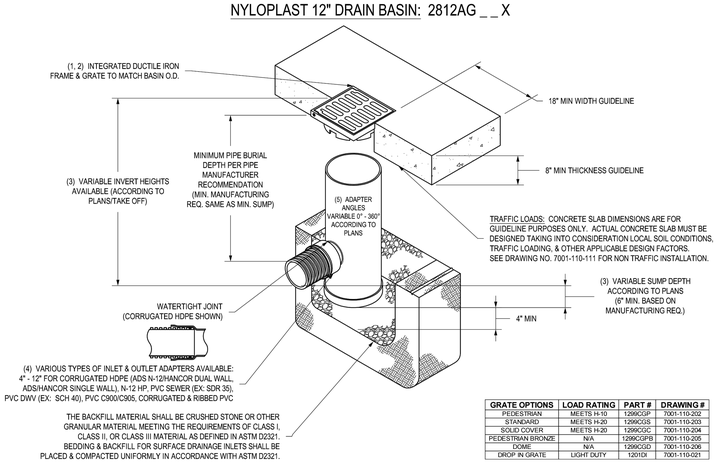
Date: _____

Specifications
for
Rigid Lip Level Spreader



1. Construct level spreader on a level grade to ensure uniform spreading of storm runoff.
2. Level spreaders must be constructed on undisturbed soil, NOT on fill.
3. The level spreader must outlet to erosion-resistant areas with established existing vegetation.
4. Rock shall be ODOT Type D where 50% of the material by weight is larger than 6 inches, and 85% of the material by weight is larger than 3 inches but less than 12 inches.
5. Rock in level spreader shall be compacted with at least two passes of heavy machinery to prevent further settling. Spread gravel or soil over top of the placed riprap surface to fill the voids and interlock the riprap together.
6. Fertilizing, seeding, and mulching shall conform to the recommendations in the applicable vegetative specification.

NYLOPLAST 12" DRAIN BASIN: 2812AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1299CGP	7001-110-202
STANDARD	MEETS H-20	1299CGS	7001-110-203
SOLID COVER	MEETS H-20	1299CGC	7001-110-204
PEDESTRIAN BRONZE	N/A	1299CGPB	7001-110-205
DOME	N/A	1299CGD	7001-110-206
DROP IN GRATE	LIGHT DUTY	1201DI	7001-110-021

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-005
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

DRAWN BY	EBC	MATERIAL	
DATE	03-29-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-11-16		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

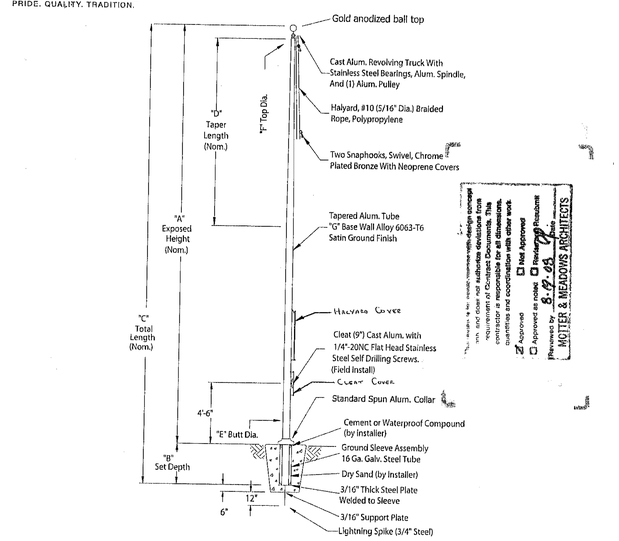
ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-189 REV E

AMERICAN FLAGPOLE — ESR30C51·02 — External Single Revolving - Ground Set

PRIDE. QUALITY. TRADITION.



A	30 ft.	Exposed Height
B	3 ft.	Set Depth
C	33 ft.	Total Length
D	11 ft. 0 in.	Taper
E	5 in.	Butt Diameter
F	3 in.	Top Diameter
G	0.156 in.	Wall Thickness

Finish: Satin Aluminum, 80 Grit Pieces: 1

Accessories:
Gold anodized ball top, standard collar

Customer Name: N.L. Construction
Rep Name: REM Graphics
Project: Canton Collection Systems
Location:
PO Number:
Quantity: 1
Notes:

REV.	DATE	DESCRIPTION
1	03/02/2023	ADDENDUM 01

FOR REFERENCE ONLY

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

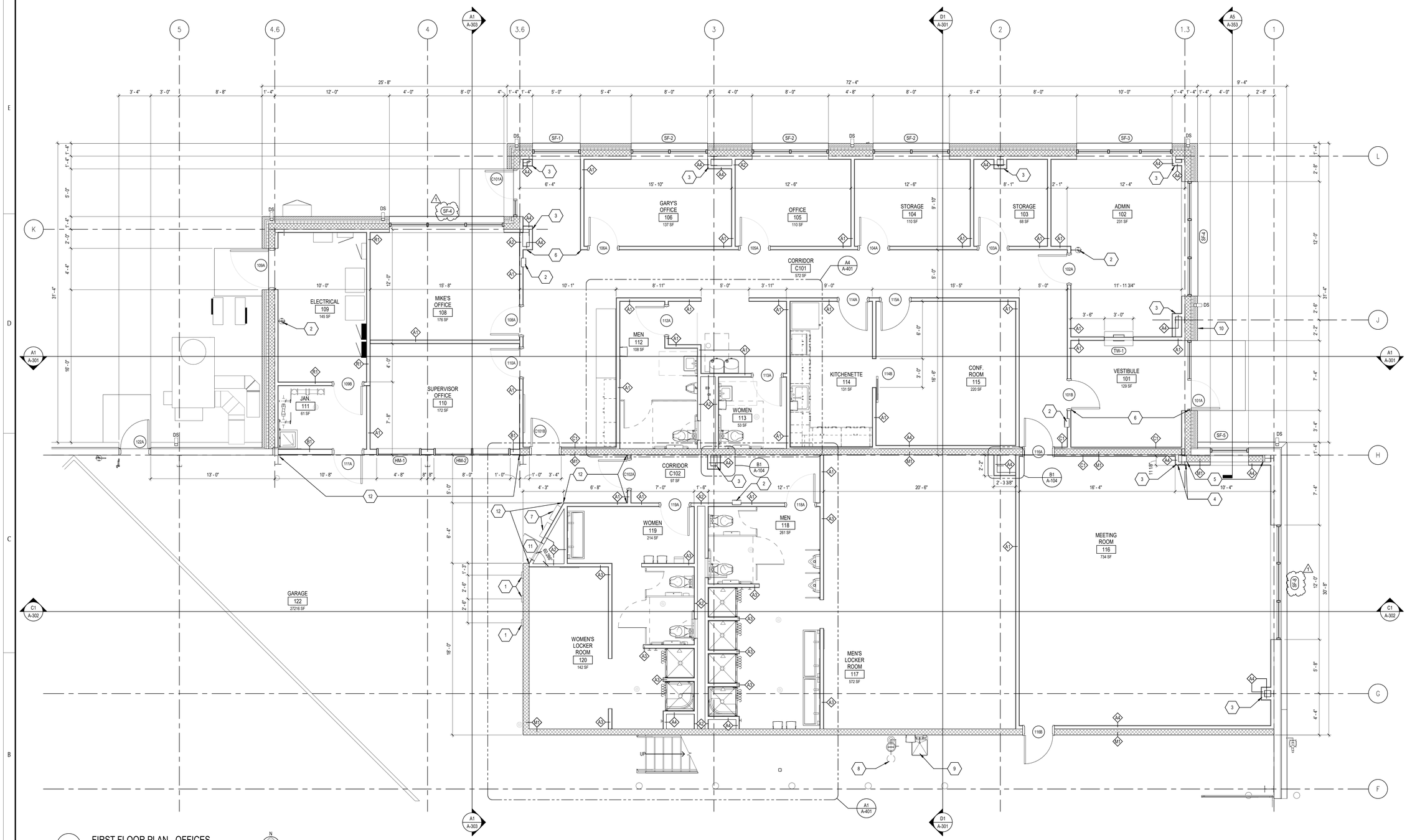
DETAILS

ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	TJW

JOB NO. 2020377.05

C-504



B1 FIRST FLOOR PLAN - OFFICES
1/4" = 1'-0"

GENERAL NOTES

1. DIMENSIONS ARE TAKEN AT 3'-0" A.F.F.
2. COLUMN CENTERLINES AT EXTERIOR WALLS ARE LOCATED AT THE INSIDE FACE OF GIRTS AND OUTSIDE FACE OF STRUCTURE.
3. EXTERIOR DIMENSIONS ARE TO EXTERIOR FACE OF MASONRY AND COLUMN CENTERLINES.
4. INTERIOR DIMENSIONS ARE TO FINISHED FACE OF WALLS AND COLUMN CENTERLINES
5. DOORS FRAMES ARE LOCATED 4" FROM FACE OF PERPENDICULAR WALLS UNLESS OTHERWISE NOTED.
6. SEE A-501 FOR PARTITION TYPES
7. SEE I-102 FOR FURNITURE
8. SEE I-107 FOR EQUIPMENT

SHEET KEYNOTES

1. TIMECLOCK - SEE ELECTRICAL AND TECHNOLOGY DRAWINGS
2. FIRE EXTINGUISHER AND /OR CABINET - SEE LIFE SAFETY PLAN AND EQUIPMENT PLAN
3. HOLD STUDS TIGHT TO PEMB STRUCTURAL COLUMNS - ALIGN WITH OPENINGS WHERE DEPICTED
4. EXTEND GWB PAST COLUMN SECURED TO METAL STUD FRAMING EACH SIDE OF COLUMN
5. SEE WALL SECTION FOR DEPTH OF WALL DIMENSION. SEE WINDOW DETAILS FOR ADDITIONAL INFORMATION. HOLD CMU 2" FROM COLUMNS.
6. ALIGN
7. CONTROL PANEL - SEE MECHANICAL DRAWINGS.
8. EMERGENCY EYEWASH & SHOWER - SEE PLUMBING DRAWINGS.
9. SINK /LAUNDRY TUB TYPE - SEE PLUMBING DRAWINGS.
10. SURFACE MOUNTED KNOX BOX, TYPE AND LOCATION PER CITY OF CANTON FIRE DEPARTMENT REQUIREMENTS.
11. 2'x2' KEYED ACCESS DOOR.
12. PROVIDE GLASS-MAT GYPSUM BOARD WITH LEVEL 5 FINISH ON EXPOSED TO GARAGE SIDE OF ALL GYPSUM BOARD WALLS.

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	3/1/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

ENLARGED OFFICE PLAN

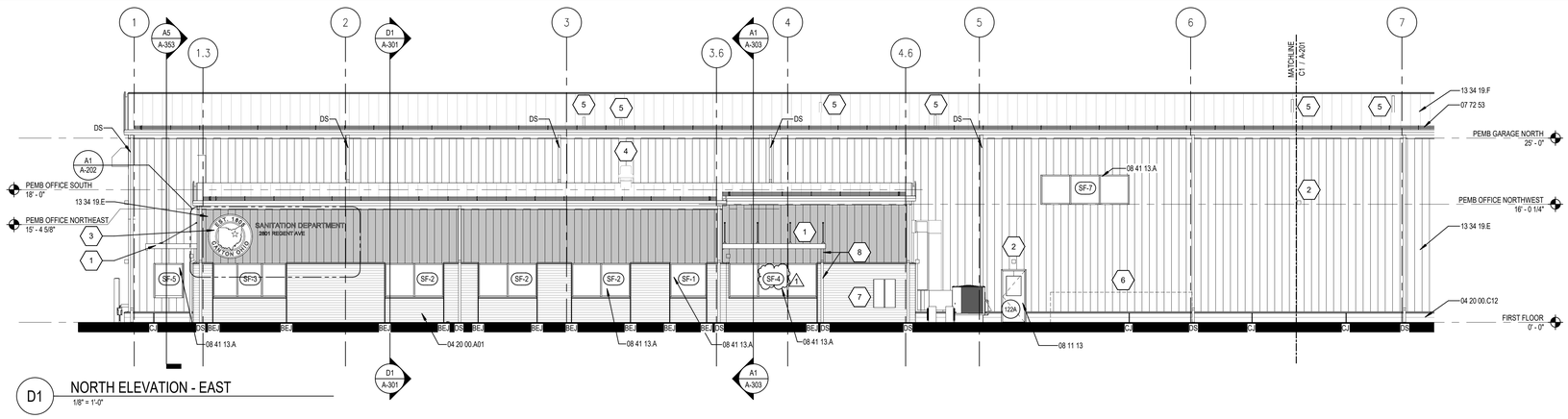
	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	SH

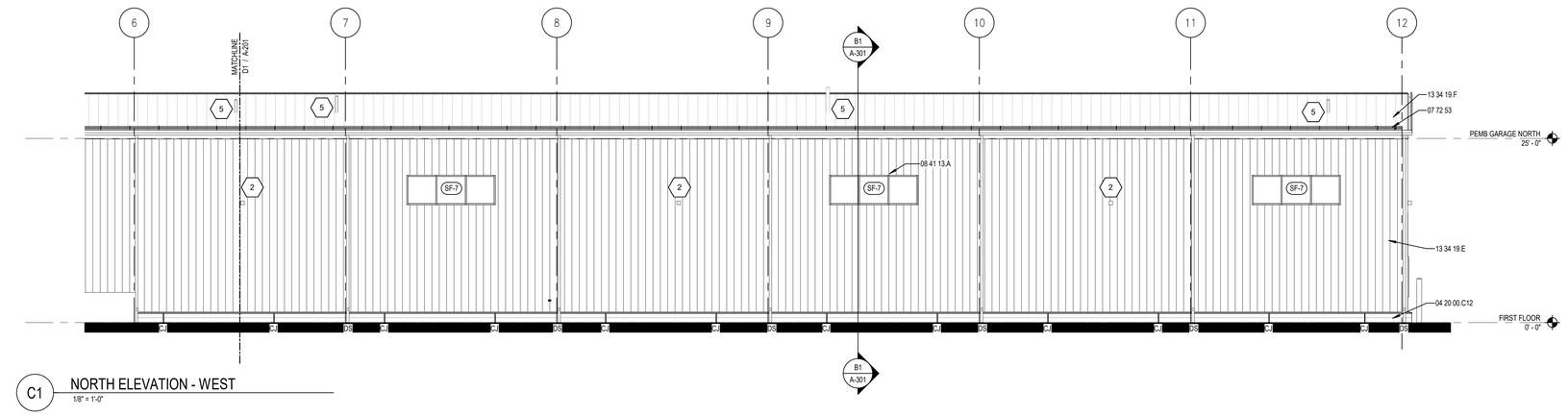
JOB NO. 2020377.05

A-102

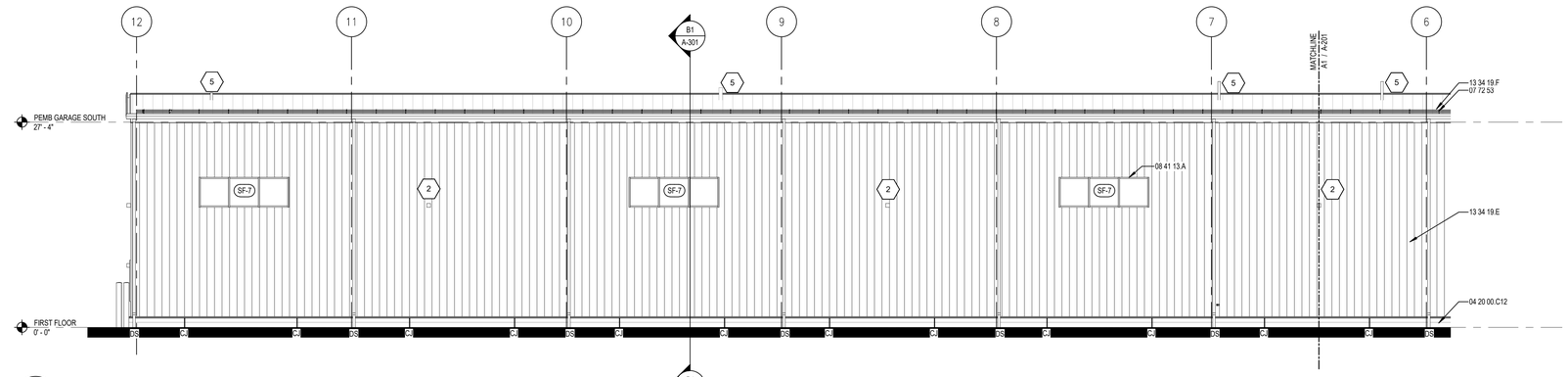
3/1/2023 3:09:52 PM



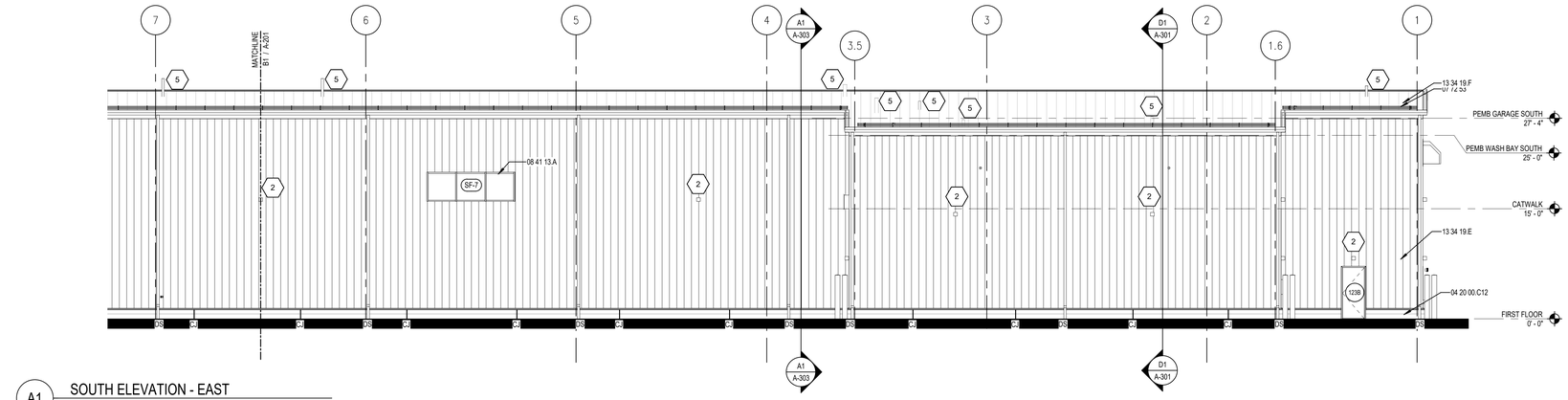
D1 NORTH ELEVATION - EAST
1/8" = 1'-0"



C1 NORTH ELEVATION - WEST
1/8" = 1'-0"



B1 SOUTH ELEVATION - WEST
1/8" = 1'-0"



A1 SOUTH ELEVATION - EAST
1/8" = 1'-0"

GENERAL NOTES

1. ALL ROOF PANELS TO BE COLOR 1.
2. ALL GUTTERS, DOWNSPOUTS, AND ROOF TRIMS (INCLUDING RIDGE TRIM) TO BE COLOR 2.
3. TOP OF BRICK TRIM TO BE COLOR 1.
4. TOP OF CMU TRIM TO BE COLOR 1.
5. WINDOW SILL FLASHING IN BRICK TO BE COLOR 2.
6. UNLESS NOTED OTHERWISE ALL FLASHINGS AND TRIMS IN METAL PANELS SHALL MATCH THE COLOR OF THE METAL PANEL THEY ARE IN.
7. ALUMINUM WINDOWS AND DOORS TO BE KAWNEER COLOR ANODIZED DARK BRONZE.
8. PAINT ALL HOLLOW METAL DOORS AND FRAMES TO MATCH COLOR 2.
9. BEJ: BRICK EXPANSION JOINT. LOCATE WHERE INDICATED AND AT INTERSECTIONS WITH DIFFERENT EXTERIOR WALL TYPES. 3/8" COLOR MATCHED JOINT SEALANT OVER COMPRESSIBLE FILL MATERIAL DEPTH OF BRICK. SEE STRUCTURAL FOR LOAD BEARING CMU CONTROL JOINT LOCATIONS. DL
10. CJ: CONTROL JOINT FOR CMU VENEER. LOCATE WHERE INDICATE OR AT MAXIMUM OF 20' O.C. LOCATE AT ALL INSIDE CORERS. AT EXTERIOR CORNERS [L1 + L2] SHALL BE < 20'. 3/8" PAINTABLE JOINT SEALANT OVER COMPRESSIBLE FILL MATERIAL DPETH OF CMU. SEE STRUCTURAL FOR LOAD BEARING CMU CONTROL JOINT LOCATIONS.

REFERENCED KEYNOTES

04 20 00.A01	CLAY MASONRY VENEER [TYPE 1]
04 20 00.C12	STANDARD CMU [4x8x16]
07 72 53	SNOW GUARD
08 11 13	HOLLOW METAL DOORS AND FRAMES
08 41 13.A	ALUMINUM FRAMED STOREFRONT
13 34 19.E	METAL WALL PANEL SYSTEM
13 34 19.F	METAL ROOF PANEL SYSTEM

ELEVATION KEYNOTES

1. MAPES CANOPIES - SUPER LUMIDECK. WITH HANGER ROD SUPPORTS. WITH 2 COAT KYNAR FINISH COLOR 3 INTERSTATE BLUE. PEMB ENGINEER SHALL PROVIDE AND DESIGN SUPPORT STRUCTURE AS REQUIRED BY CANOPY MANUFACTURER.
2. BUILDING MOUNTED LIGHT. SEE ELECTRICAL DRAWINGS.
3. CITY OF CANTON COLOR LOGO, MATCH CITY OF CANTON STANDARD COLORS WHITE, GRAY, AND BLUE. SEE SPEC 10 14 23 - WALL MOUNTED PANEL SIGNAGE. PEMB ENGINEER SHALL PROVIDE AND DESIGN SUPPORT STRUCTURE AS REQUIRED BY CANOPY MANUFACTURER.
4. EXHAUST FAN - SEE MECHANICAL DRAWINGS.
5. ROOF PENETRATION - SEE A-107, MECHANICAL, AND PLUMBING DRAWINGS.
6. GENERATOR OUTLINE SHOWN FOR REFERENCE - SEE ELECTRICAL DRAWINGS.
7. ELECTRICAL CABINET - SEE ELECTRICAL DRAWINGS.
8. COORDINATE DOWNSPOUT REQUIREMENTS WITH MAPES CANOPIES

LEGEND

- 13.34 19.E - METAL PANEL COLOR 1
- 13 34 19.E - METAL PANEL COLOR 2
- 04 20 00.A01 - BRICK ST. SIMON
- 04 20 00.C12 - STANDARD CMU PAINT TO MATCH COLOR 2

COLOR 1 - MBCI CUSTOM COLOR MATCH "LIGHT STONE"

COLOR 2 - MBCI STANDARD COLOR "MIDNIGHT BRONZE"

COLOR 3 - MAPES CANOPIES STANDARD COLOR" INTERSTATE BLUE"

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	3/1/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

EXTERIOR ELEVATIONS

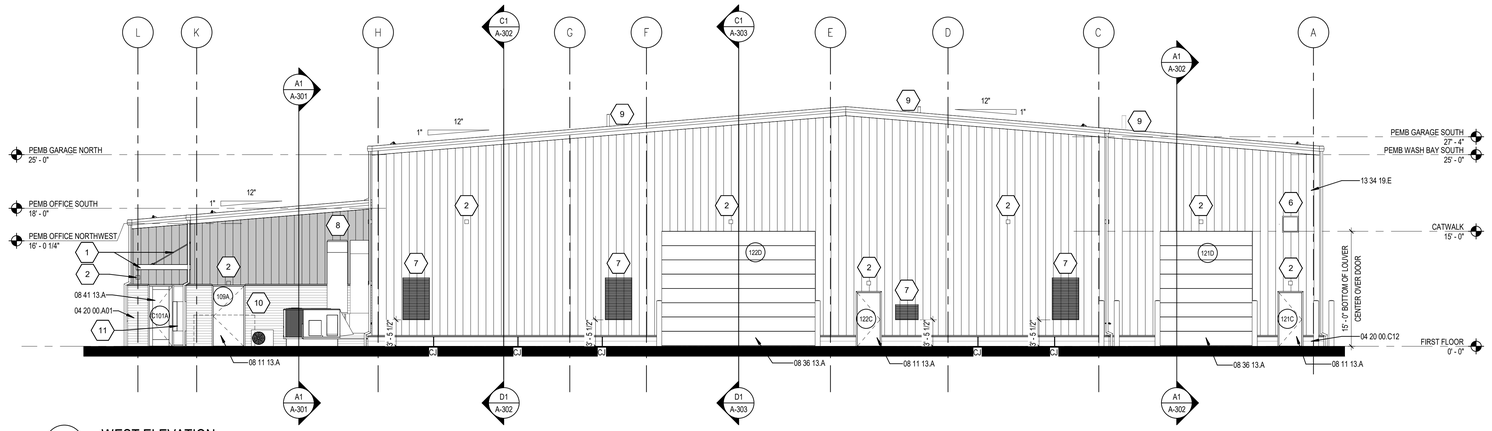
	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	SH

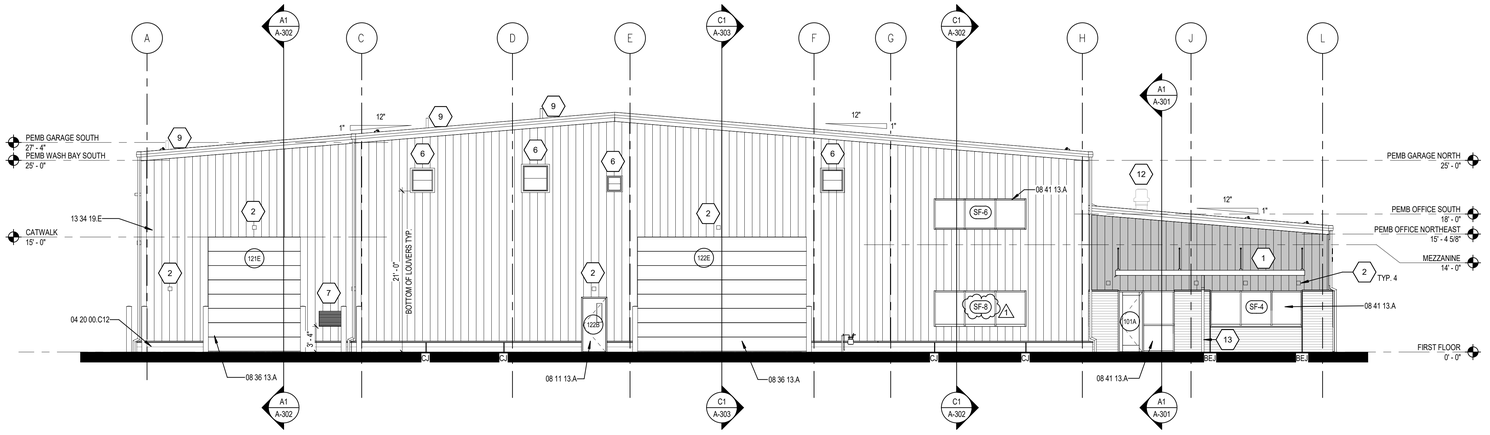
JOB NO.
2020377.05

A-201

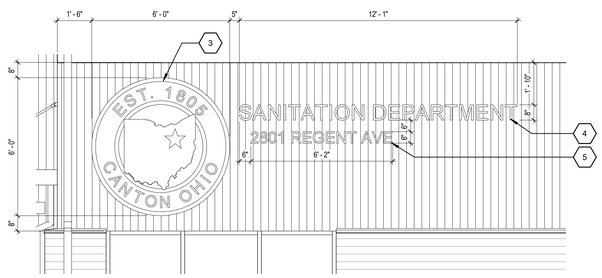
3/1/2023 3:10:01 PM



D1 WEST ELEVATION
1/8" = 1'-0"



B1 EAST ELEVATION
1/8" = 1'-0"



A1 EXTERIOR SIGNAGE
3/8" = 1'-0"

GENERAL NOTES

1. ALL ROOF PANELS TO BE COLOR 1.
2. ALL GUTTERS, DOWNSPOUTS, AND ROOF TRIMS (INCLUDING RIDGE TRIM) TO BE COLOR 2.
3. TOP OF BRICK TRIM TO BE COLOR 1.
4. TOP OF CMU TRIM TO BE COLOR 1.
5. WINDOW SILL FLASHING IN BRICK TO BE COLOR 2.
6. UNLESS NOTED OTHERWISE ALL FLASHINGS AND TRIMS IN METAL PANELS SHALL MATCH THE COLOR OF THE METAL PANEL THEY ARE IN.
7. ALUMINUM WINDOWS AND DOORS TO BE KAWNEER COLOR ANODIZED DARK BRONZE.
8. PAINT ALL HOLLOW METAL DOORS AND FRAMES TO MATCH COLOR 2.
9. BEJ: BRICK EXPANSION JOINT. LOCATE WHERE INDICATED AND AT INTERSECTIONS WITH DIFFERENT EXTERIOR WALL TYPES. 3/8" COLOR MATCHED JOINT SEALANT OVER COMPRESSIBLE FILL MATERIAL DEPTH OF BRICK. SEE STRUCTURAL FOR LOAD BEARING CMU CONTROL JOINT LOCATIONS. DL
10. CJ: CONTROL JOINT FOR CMU VENEER. LOCATE WHERE INDICATE OR AT MAXIMUM OF 20' O.C. LOCATE AT ALL INSIDE CORERS. AT EXTERIOR CORNERS [L1 + L2] SHALL BE < 20'. 3/8" PAINTABLE JOINT SEALANT OVER COMPRESSIBLE FILL MATERIAL DPETH OF CMU. SEE STRUCTURAL FOR LOAD BEARING CMU CONTROL JOINT LOCATIONS.

REFERENCED KEYNOTES

04 20 00.A01	CLAY MASONRY VENEER [TYPE 1]
04 20 00.C12	STANDARD CMU [4x8x16]
08 11 13.A	HOLLOW METAL DOOR AND FRAME
08 36 13.A	2" INSULATED SECTIONAL DOOR
08 41 13.A	ALUMINUM FRAMED STOREFRONT
13 34 19.E	METAL WALL PANEL SYSTEM

ELEVATION KEYNOTES

1. MAPES CANOPIES - SUPER LUMIDECK. WITH HANGER ROD SUPPORTS. WITH 2 COAT KYNAR FINISH COLOR 3 INTERSTATE BLUE. PEMB ENGINEER SHALL PROVIDE AND DESIGN SUPPORT STRUCTURE AS REQUIRED BY CANOPY MANUFACTURER.
2. BUILDING MOUNTED LIGHT. SEE ELECTRICAL DRAWINGS.
3. CITY OF CANTON COLOR LOGO, MATCH CITY OF CANTON STANDARD COLORS WHITE, GRAY, AND BLUE. SEE SPEC 10 14 23 - WALL MOUNTED PANEL SIGNAGE. PEMB ENGINEER SHALL PROVIDE AND DESIGN SUPPORT STRUCTURE AS REQUIRED BY CANOPY MANUFACTURER.
4. 8" LETTERING, MATCH CITY OF CANTON GRAY. SEE SPEC 10 14 19 - DIMENSIONAL LETTER SIGNAGE. PEMB ENGINEER SHALL PROVIDE AND DESIGN SUPPORT STRUCTURE AS REQUIRED BY CANOPY MANUFACTURER.
5. 6" LETTERING, MATCH CITY OF CANTON GRAY. SEE SPEC 10 14 19 - DIMENSIONAL LETTER SIGNAGE. PEMB ENGINEER SHALL PROVIDE AND DESIGN SUPPORT STRUCTURE AS REQUIRED BY CANOPY MANUFACTURER.
6. EXHAUST FANS AND WEATHER HOODS - MATCH COLOR 1. SEE MECHANICAL DRAWINGS FOR SIZE AND SPEC. SEE A-605 FOR HEAD, JAMB, AND SILL DETAILS.
7. LOUVER - MATCH COLOR 1. SEE MECHANICAL DRAWINGS FOR SIZE AND SPEC. SEE A-605 FOR HEAD, JAMB, AND SILL DETAILS.
8. SEE A-605 FOR DUCT PENETRATION DETAILS.
9. ROOF PENETRATION - SEE A-107, MECHANICAL, AND PLUMBING DRAWINGS.
10. GENERATOR OUTLINE SHOWN FOR REFERENCE - SEE ELECTRICAL DRAWINGS.
11. ELECTRICAL CABINET - SEE ELECTRICAL DRAWINGS.
12. EXHAUST FAN - SEE MECHANICAL DRAWINGS.
13. COORDINATE DOWNSPOUT REQUIREMENTS WITH MAPES CANOPIES

LEGEND

- 13 34 19.E - METAL PANEL COLOR 1
- 13 34 19.E - METAL PANEL COLOR 2
- 04 20 00.A01 - BRICK ST. SIMON
- 04 20 00.C12 - STANDARD CMU PAINT TO MATCH COLOR 2

COLOR 1 - MBCI CUSTOM COLOR MATCH "LIGHT STONE"

COLOR 2 - MBCI STANDARD COLOR "MIDNIGHT BRONZE"

COLOR 3 - MAPES CANOPIES STANDARD COLOR" INTERSTATE BLUE"

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	3/1/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

EXTERIOR ELEVATIONS

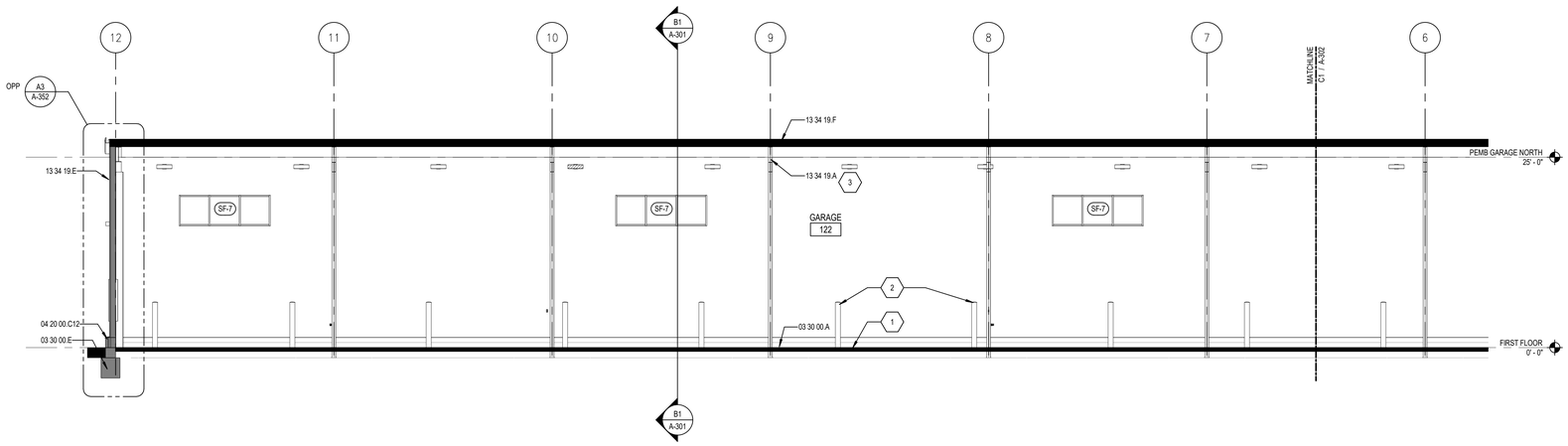
	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	SH

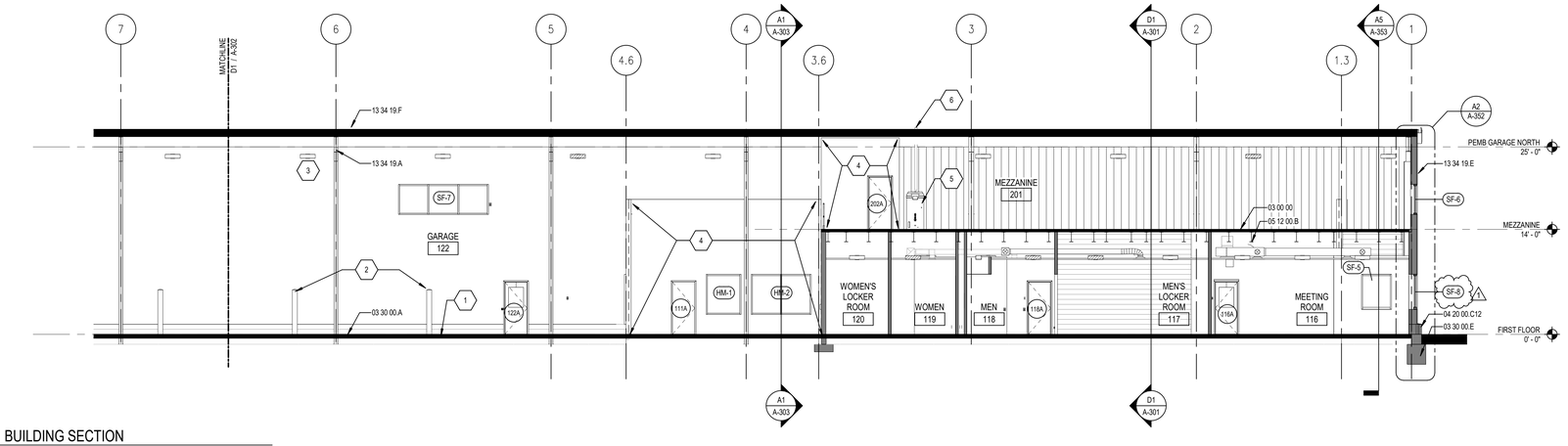
JOB NO.
2020377.05

A-202

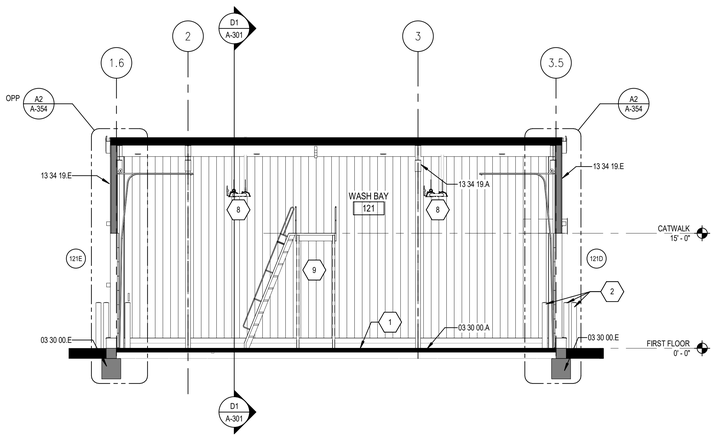
3/1/2023 3:10:09 PM



D1 BUILDING SECTION
1/8" = 1'-0"



C1 BUILDING SECTION
1/8" = 1'-0"



A1 BUILDING SECTION
1/8" = 1'-0"

GENERAL NOTES

1. PEMB ELEVATION LEVELS INDICATE TOP OF STEEL FRAME / BOTTOM OF 10" ROOF PURLIN.
2. SEE A-200 SERIES EXTERIOR ELEVATIONS FOR EXTERIOR COLOR SELECTIONS.

REFERENCED KEYNOTES

03 00 00	CONCRETE
03 30 00.A	CONCRETE SLAB ON GRADE
03 30 00.E	CONCRETE FOOTING - REFER TO STRUCTURAL DWGS.
04 20 00.C12	STANDARD CMU [4x8x16]
05 12 00.B	STRUCTURAL STEEL BEAM - REFER TO STRUCTURAL DWGS.
13 34 19.A	STRUCTURAL STEEL FRAMING SYSTEM
13 34 19.E	METAL WALL PANEL SYSTEM
13 34 19.F	METAL ROOF PANEL SYSTEM

BUILDING SECTION KEYNOTES

1 SLOPE SLAB ON GRADE TO DRAINS - SEE A-101 FOR SLOPE REQUIREMENTS.
2 DETERRENT BOLLARD - TYPICAL. SEE I-108 FOR DIMENSIONS. SEE CIVIL DRAWINGS FOR DETAILS. SEE STRUCTURAL DRAWINGS FOR FOUNDATION COORDINATION REQUIREMENTS.
3 SUSPENDED LIGHT FIXTURE TYPICAL - SEE ELECTRICAL DRAWINGS
4 PROVIDE GLASS-MAT GYPSUM BOARD WITH LEVEL 5 FINISH ON EXPOSED TO GARAGE SIDE OF ALL GYPSUM BOARD WALLS.
5 WATER HEATER - SEE PLUMBING DRAWINGS
6 CONCENTRIC FLUE THROUGH ROOF - SEE PLUMBING DRAWINGS
8 SUSPENDED LIGHT FIXTURE TYPICAL - SEE ELECTRICAL DRAWINGS
9 DELEGATED DESIGN FREE STANDING CATWALK PLATFORM. FRAMING, AND ALTERNATING TREAD DEVICE. SEE A-104 FOR ADDITIONAL INFORMATION.

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	3/1/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

BUILDING SECTIONS

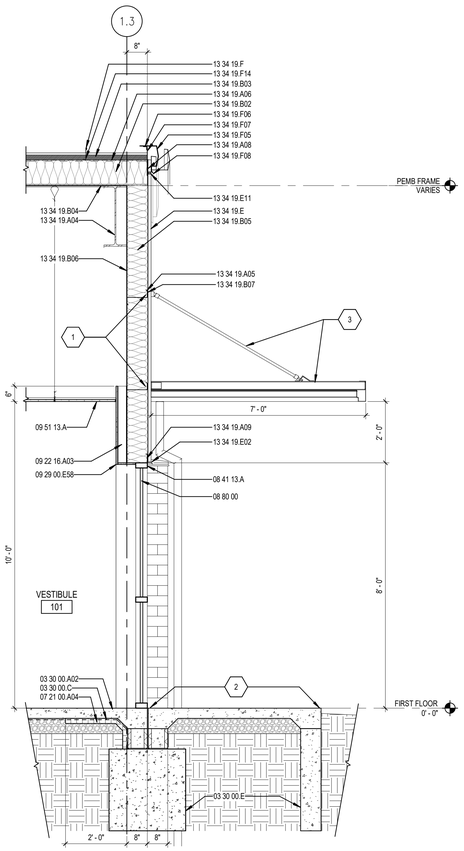
	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	SH

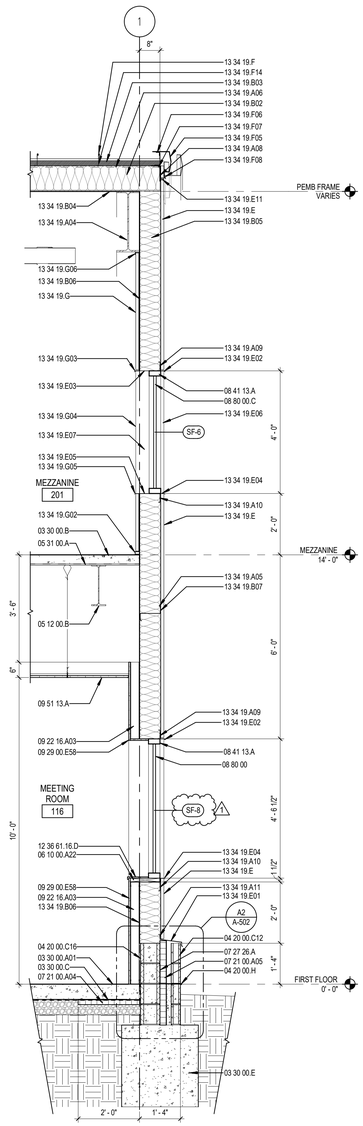
JOB NO.
2020377.05

A-302

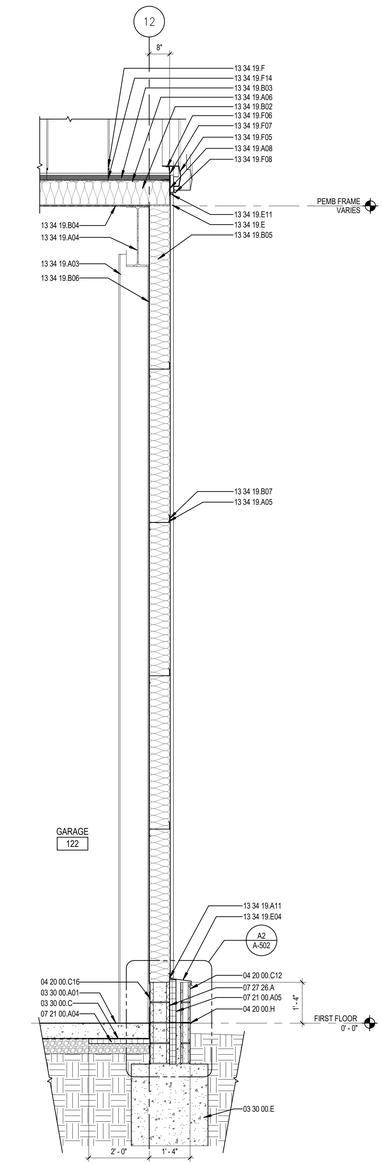
3/1/2023 3:10:12 PM



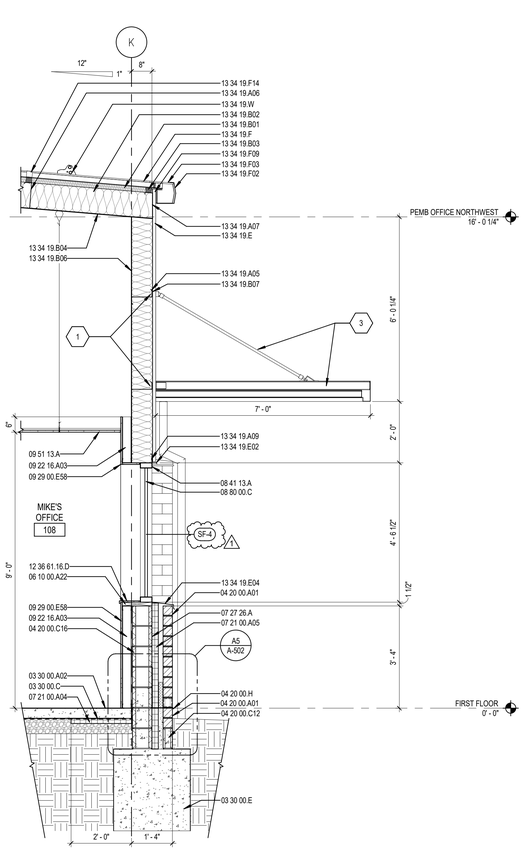
A1 WALL SECTION
1/2" = 1'-0"



A2 WALL SECTION
1/2" = 1'-0"



A3 WALL SECTION
1/2" = 1'-0"



A5 WALL SECTION
1/2" = 1'-0"

GENERAL NOTES

1. SEE A-600 SERIES SHEETS FOR ALL DOOR AND WINDOW DETAILS.
2. SEE A-200 SERIES EXTERIOR ELEVATIONS FOR EXTERIOR COLOR SELECTIONS.
3. FOOTER SIZE AND DEPTH VARIES - SEE STRUCTURAL DRAWINGS.
4. EXTERIOR GRADE VARIES - SEE CIVIL DRAWINGS.

REFERENCED KEYNOTES

03 30 00.A01	CONCRETE SLAB ON GRADE [6"]
03 30 00.A02	CONCRETE SLAB ON GRADE [4"]
03 30 00.B	COMPOSITE SLAB
03 30 00.C	VAPOR BARRIER
03 30 00.E	CONCRETE FOOTING - REFER TO STRUCTURAL DWGS.
04 20 00.A01	CLAY MASONRY VENEER [TYPE 1]
04 20 00.C12	STANDARD CMU [4x8x16]
04 20 00.C16	STANDARD CMU [8x8x16]
04 20 00.H	EMBEDDED FLASHING
05 12 00.B	STRUCTURAL STEEL BEAM - REFER TO STRUCTURAL DWGS.
05 31 00.A	METAL DECK - REFER TO STRUCTURAL DWGS.
06 10 00.A22	WOOD BLOCKING [2x12]
07 21 00.A04	BOARD INSULATION [2" R-10 MIN.]
07 21 00.A05	BOARD INSULATION [2 1/2" R-12.5 MIN.]
07 27 26.A	FLUID-APPLIED MEMBRANE AIR BARRIER
08 41 13.A	ALUMINUM FRAMED STOREFRONT
08 80 00	GLAZING
08 80 00.C	INSULATING GLASS
09 22 16.A03	STUDS AND TRACK [3 5/8" @ 16" O.C. MAX.]
09 29 00.E58	GYPSUM WALL BOARD [5/8"]
09 51 13.A	ACOUSTICAL PANEL CEILINGS
12 36 61.16.D	SOLID SURFACE MATERIAL SILL
13 34 19.A03	ENDWALL COLUMN
13 34 19.A04	ENDWALL RAFTER
13 34 19.A05	WALL GIRT
13 34 19.A06	ROOF PURLIN
13 34 19.A07	EAVE STRUT
13 34 19.A08	RAKE ANGLE
13 34 19.A09	HEADER CHANNEL
13 34 19.A10	SILL CHANNEL
13 34 19.A11	BASE CHANNEL
13 34 19.B01	CONTINUOUS ROOF INSULATION [R-8 MIN.]
13 34 19.B02	ROOF INSULATION FULL CAVITY BETWEEN PURLINS [R-30 MIN.]
13 34 19.B03	ROOF THERMAL SPACER BLOCK [R-3 MIN.]
13 34 19.B04	ROOF INSULATION FABRIC VAPOR BARRIER AND BANDING
13 34 19.B05	WALL INSULATION FULL CAVITY BETWEEN GIRTS [R-25 MIN.]
13 34 19.B06	WALL INSULATION FABRIC VAPOR BARRIER AND BANDING
13 34 19.B07	WALL INSULATION THERMAL TAPE
13 34 19.E	METAL WALL PANEL SYSTEM
13 34 19.E01	METAL WALL PANEL BASE FLASHING
13 34 19.E02	METAL WALL PANEL HEAD FLASHING
13 34 19.E03	METAL WALL PANEL HEAD CAP TRIM
13 34 19.E04	METAL WALL PANEL SILL FLASHING
13 34 19.E05	METAL WALL PANEL SILL CAP TRIM
13 34 19.E06	METAL WALL PANEL JAMB TRIM
13 34 19.E07	METAL WALL PANEL JAMB CAP TRIM
13 34 19.E11	METAL WALL PANEL OUTSIDE CLOSURE
13 34 19.F	METAL ROOF PANEL SYSTEM
13 34 19.F02	METAL ROOF SCULPTURED GUTTER
13 34 19.F03	METAL ROOF GUTTER STRAP
13 34 19.F05	METAL ROOF SCULPTURED RAKE TRIM
13 34 19.F06	METAL ROOF RAKE CLEAT
13 34 19.F07	METAL ROOF RAKE SUPPORT ANGLE
13 34 19.F08	METAL ROOF RAKE SLIDE
13 34 19.F09	METAL ROOF CAP TRIM
13 34 19.F14	METAL ROOF FLOATING CLIP
13 34 19.G	METAL WALL PANEL LINER SYSTEM
13 34 19.G02	METAL WALL PANEL LINER SQUARE BASE FLASHING
13 34 19.G03	METAL WALL PANEL LINER HEAD TRIM FLASHING
13 34 19.G04	METAL WALL PANEL LINER JAMB TRIM
13 34 19.G05	METAL WALL PANEL LINER SILL TRIM FLASHING
13 34 19.G06	METAL WALL PANEL LINER TRIM
13 34 19.W	SNOW GUARD

SHEET KEYNOTES

1 PEMB ENGINEER SHALL PROVIDE AND DESIGN SUPPORT STRUCTURE AS REQUIRED BY CANOPY MANUFACTURER.
2 FROST SLAB. SEE CIVIL FOR DIMENSION AND SLOPE. SEE STRUCTURAL FOR DETAIL.
3 MAPES CANOPIES - SUPER LUMIDEC WITH HANGAR ROD SUPPORTS.

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	3/1/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

WALL SECTIONS

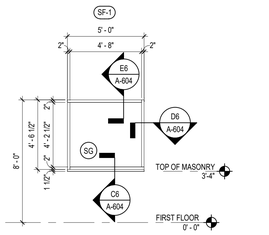
	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
Designer	Author

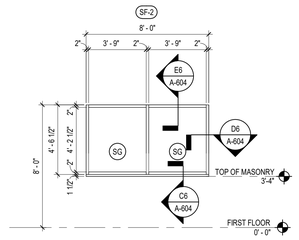
JOB NO.
2020377.05

A-352

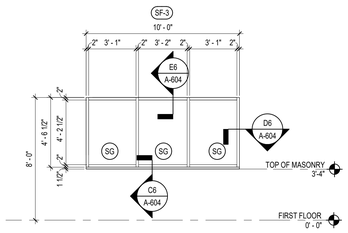
3/1/2023 3:10:20 PM



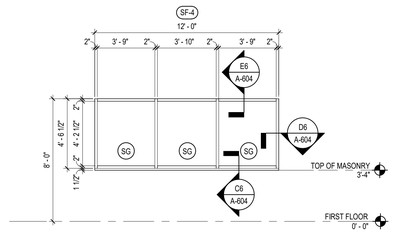
E1 SF-1
1/4" = 1'-0"



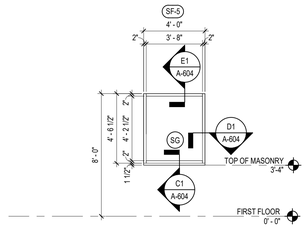
E2 SF-2
1/4" = 1'-0"



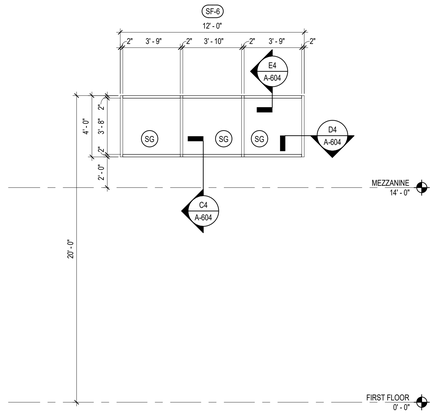
E3 SF-3
1/4" = 1'-0"



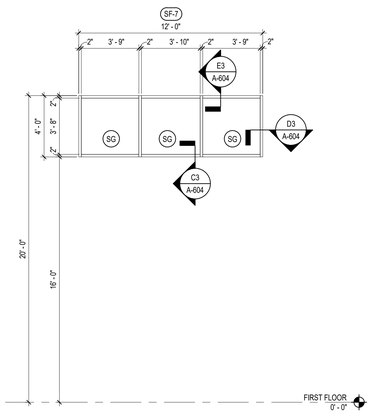
E4 SF-4
1/4" = 1'-0"



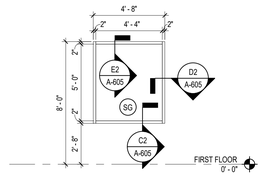
C1 SF-5
1/4" = 1'-0"



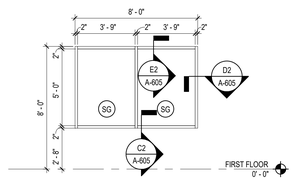
C2 SF-6
1/4" = 1'-0"



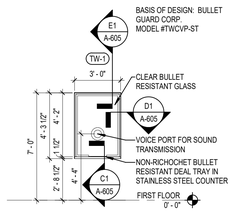
C3 SF-7
1/4" = 1'-0"



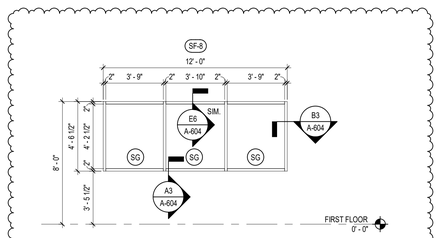
C4 HM-1
1/4" = 1'-0"



B1 HM-2
1/4" = 1'-0"



B2 TW-1
1/4" = 1'-0"



B3 SF-8
1/4" = 1'-0"

LEGEND

SG — SAFETY GLAZING. UNLESS OTHERWISE NOTED ALL GLAZING SHALL BE SAFETY GLAZING. ALL INTERIOR GLAZING SHALL BE 1/4". ALL EXTERIOR GLAZING SHALL BE 1" INSULATED. REFER TO SPECIFICATIONS 08 80 00 FOR ADDITIONAL INFORMATION

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	3/1/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

WINDOW ELEVATIONS

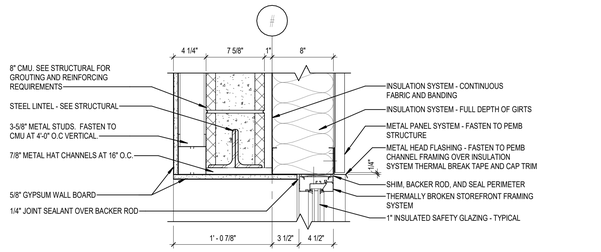
	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
Designer	Author

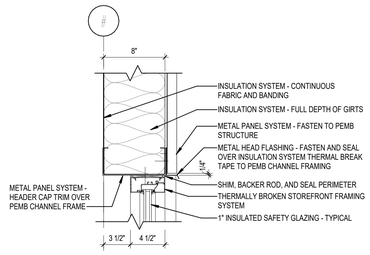
JOB NO.
2020377.05

A-603

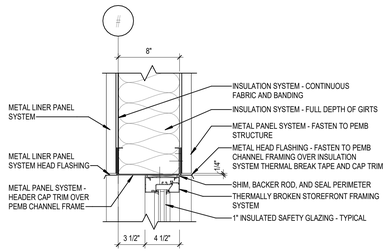
3/1/2023 3:10:21 PM



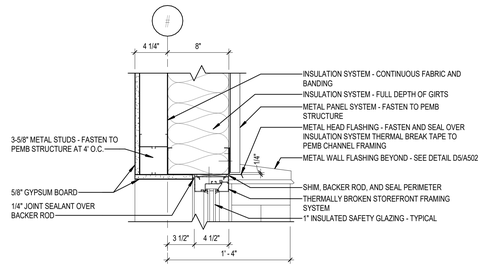
E1 WINDOW HEAD DETAIL
1 1/2" = 1'-0"



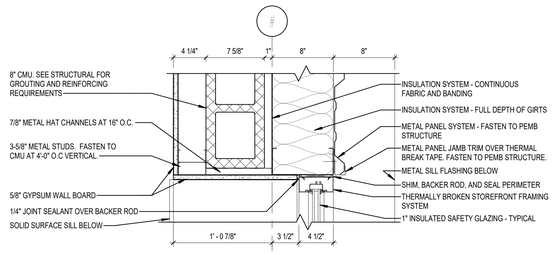
E3 WINDOW HEAD DETAIL
1 1/2" = 1'-0"



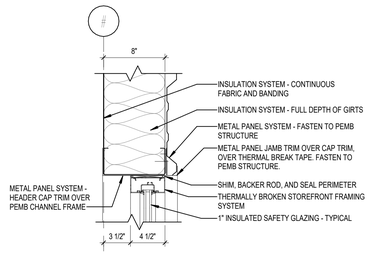
E4 WINDOW HEAD DETAIL
1 1/2" = 1'-0"



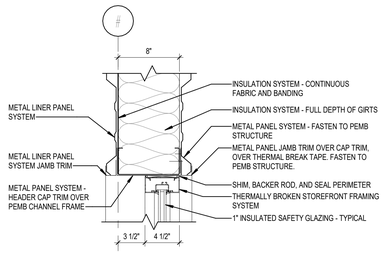
E6 WINDOW HEAD DETAIL
1 1/2" = 1'-0"



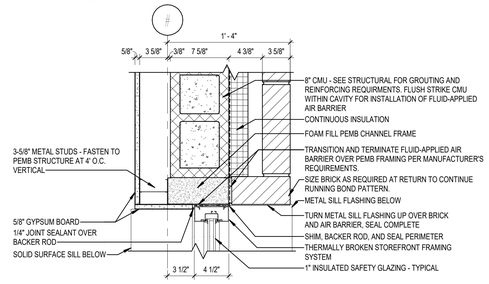
D1 WINDOW JAMB DETAIL
1 1/2" = 1'-0"



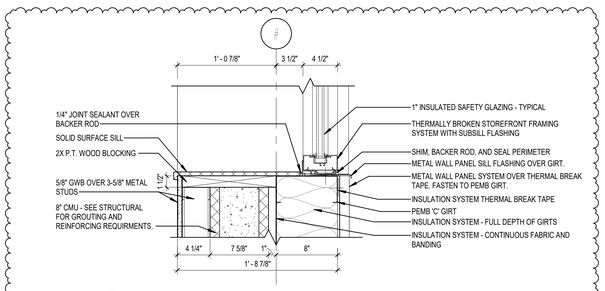
D3 WINDOW JAMB DETAIL
1 1/2" = 1'-0"



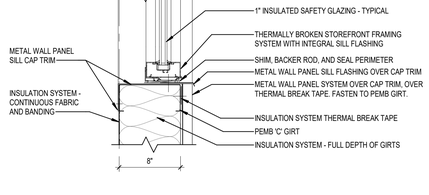
D4 WINDOW JAMB DETAIL
1 1/2" = 1'-0"



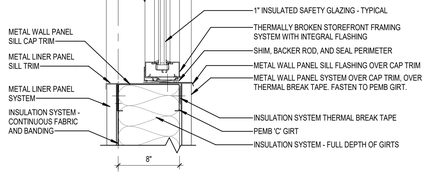
D6 WINDOW JAMB DETAIL
1 1/2" = 1'-0"



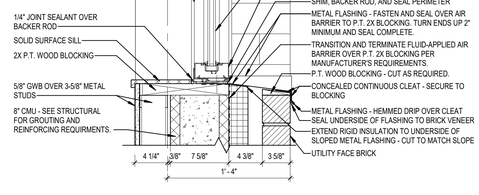
C1 WINDOW SILL DETAIL
1 1/2" = 1'-0"



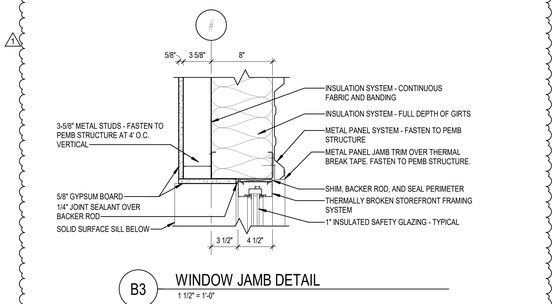
C3 WINDOW SILL DETAIL
1 1/2" = 1'-0"



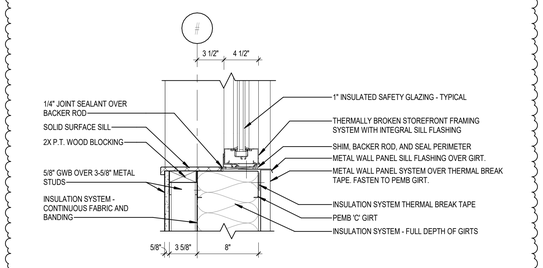
C4 WINDOW SILL DETAIL
1 1/2" = 1'-0"



C6 WINDOW SILL DETAIL
1 1/2" = 1'-0"



B3 WINDOW JAMB DETAIL
1 1/2" = 1'-0"



A3 WINDOW SILL DETAIL
1 1/2" = 1'-0"

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	3/2/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

WINDOW DETAILS

	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

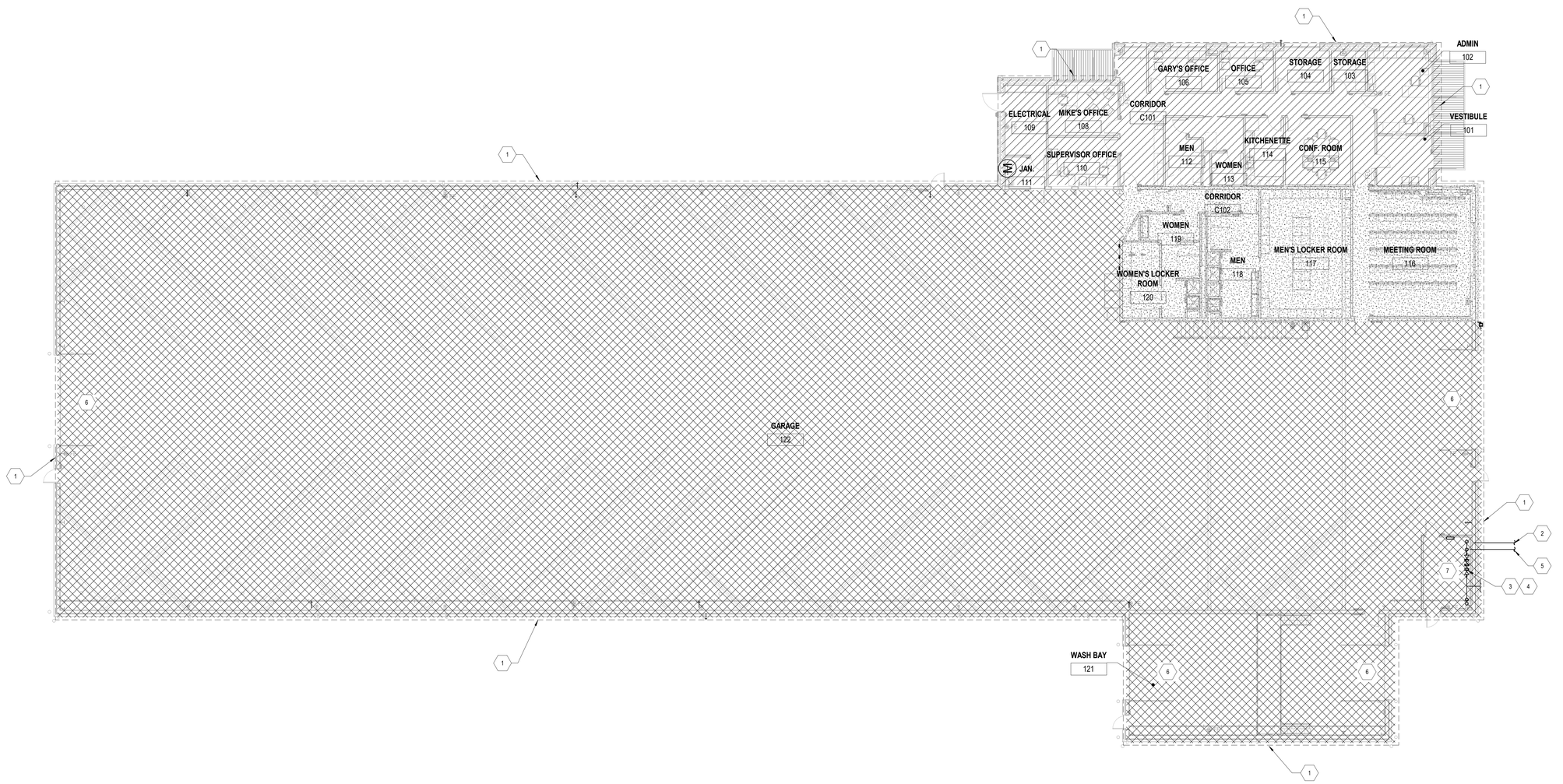
PROJECT MANAGER	DESIGNER
Designer	Author

JOB NO.
2020377.05

A-604

3/1/2023 3:10:22 PM

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101



B3 FIRST FLOOR OVERALL FIRE SUPRESSION PLAN
3/32" = 1'-0"

GENERAL NOTES

1. THIS DRAWING IS FOR REFERENCE PURPOSES ONLY. A LICENSED FIRE PROTECTION CONTRACTOR SHALL DESIGN AND INSTALL A WET PIPE SPRINKLER SYSTEM IN COMPLIANCE WITH N.F.P.A 13, THE STATE PLUMBING CODE, AND ALL OTHER APPLICABLE CODES AND ORDINANCES. FLUSH AND COMMISSION SYSTEM, AND OBTAIN ALL FINAL APPROVALS FROM THAT STATE AND LOCAL AUTHORITIES.
2. PROVIDE DESIGN BUILD SYSTEM TO MEET REQUIREMENTS SHOWN. PREPARE HYDRAULIC CALCULATIONS AND DESIGN DRAWINGS. OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS.
3. FIRE PROTECTION CONTRACTOR SHALL SIZE PIPING AND HYDRAULICALLY CALCULATE PER N.F.P.A 13.
4. ALL MATERIAL SHALL BE UL AND/OR FM APPROVED AND SHALL BE INSTALLED PER N.F.P.A 13.
5. PROVIDE AND INSTALL CONCEALED SPRINKLER TYPES WITH WHITE FINISH IN ALL AREAS WITH FINISHED CEILINGS AND UPRIGHT SPRINKLER HEADS FOR AREAS WITHOUT CEILINGS.
6. SPRINKLER HEADS THAT ARE LOCATED IN THE ACOUSTICAL PANELS OF THE CEILING GRID SHALL BE IN THE CENTER OF THE PANEL. THE EXACT LOCATION OF THE SPRINKLER HEADS SHALL BE DETERMINED AFTER CEILING GRID IS INSTALLED. DO NOT USE THE CEILING GRID PLANS TO DETERMINE THE LOCATION OF THE SPRINKLER HEADS.
7. ALL ELECTRICAL CIRCUITS REQUIRED FOR EACH FIRE DETECTION SYSTEM, WATER FLOW ALARM AND VALVE SUPERVISION WIRING SHALL BE CHECKED BY THE FIRE PROTECTION CONTRACTOR TO ENSURE PROPER OPERATION. SPRINKLER SUPERVISORY DEVICES WILL BE COMPATIBLE WITH THE ALARM EQUIPMENT PANEL. COORDINATE WITH FIRE ALARM CONTRACTOR.

PLAN KEYNOTES

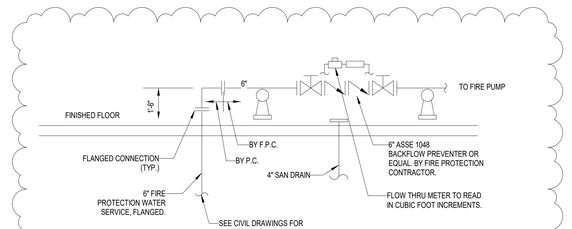
1. PROVIDE AND INSTALL AUTOMATIC SPRINKLER LINES AND SPRINKLER HEADS WITHIN DASHED OUTLINED AREA, UNLESS NOTED OTHERWISE. AUTOMATIC SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED AND SIZED PER N.F.P.A. 13. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND DESIGN FOR STEEL JOIST CONSTRUCTION.
2. NEW 6" FIRE MAIN, COORDINATE WITH CIVIL PLANS FOR CONTINUATION.
3. NEW FIRE PUMP ROOM, ASSE 1048 BACKFLOW PREVENTER PURCHASED FROM CANTON WATER DEPARTMENT, AND FIRE PUMP TO BOOSTER RESIDUAL PRESSURE TO 45 PSI MINIMUM. FEILD COORDINATE EXACT LOCATION PRIOR TO START OF ANY WORK. (1)
4. FIRE ALARM PANEL IN FIRE PUMP ROOM, COORDINATE EXACT LOCATION WITH ELECTRICAL PLANS.
5. SEE CIVIL FOR REMOTE FIRE DEPARTMENT CONNECTION. COORDINATE EXACT LOCATION WITH FIRE DEPARTMENT.
6. PROVIDE SPRINKLER PROTECTION BELOW GARAGE DOOR TRACK TO PROVIDE FULL COVERAGE WHEN DOOR IS IN THE OPEN POSITION. PROVIDE SUPPLEMENTAL SUPPORT FRAMING FOR THE PIPING.
7. PROVIDE SPRINKLERS BELOW FIRE PUMP ROOM CEILING.

FLOW TEST DATA - FOR REFERENCE

DATE: 08-31-2021
MAIN SIZE: 6"
LOCATION: REGENT NE
STATIC: 58 PSI
RESIDUAL: 35 PSI AT 960 GPM

FIRE SYMBOL LEGEND

SYMBOL	DESCRIPTION
	WET PIPE SPRINKLER SYSTEM LIGHT HAZARD.
	BELOW MEZZANINE: **WET PIPE SPRINKLER SYSTEM LIGHT HAZARD.**
	ABOVE MEZZANINE: **WET PIPE SPRINKLER SYSTEM ORDINARY HAZARD GROUP II.**
	WET PIPE SPRINKLER SYSTEM ORDINARY HAZARD GROUP II.



A5 WATER ENTRY DETAIL
N.T.S.

REV.	DATE	DESCRIPTION
1	02/15/23	CANTON WATER REPARTMENT REVISIONS
2	03/02/23	ADDENDUM 01

NOT FOR CONSTRUCTION

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

FIRE PROTECTION

	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	BRF

JOB NO.
2020377.05

FP-101

2/28/2023 10:22:45 AM

ROOFTOP UNIT SCHEDULE

TAG	SERVICE	MANUFACTURER	MODEL NUMBER	TONS	SUPPLY FAN	OUTDOOR AIR CFM	EAT DB/WB	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	ENERGY EFFICIENCY RATION (EER)	SUPPLY FAN MOTOR						DESIGN BASE HEATING SECTION				DESIGN (MCA/MOCP)	RTU WEIGHT	REMARKS
											ESP/TSP	DESIGN BASE			ELECTRICAL		INPUT MBH	OUTPUT MBH	EAT DEG F	# OF STAGES			
												RPM	BHP	HP	VOLTAGE	PHASE							
AHU-1	OFFICE	TRANE	YSJ120	10	4550	1200	79.6/65.8	132.31	94.21	11.0	1.37	1602	3.1	3.5	480	3	240	194.4	60.0	2	32/40	1265	1,2,3,4

NOTES:
1. UNIT IS VARIABLE AIR VOLUME WITH SUPPLY AND EXHUAST FAN VFD.
2. UNIT SHALL BE INSTALLED ON 24" CURB ON GRADE.
3. UNIT SHALL BE PROVIDE WITH MANUFACTURER PACKAGED CONTROLS.
4. PROVIDE AND INSTALL RETURN AIR SMOKE DETECTOR. SIGNAL SHALL SHUT DOWN UNIT.
5. FURNISH UNIT WITH POWERED EXHAUST.

ENVIRONMENTAL AIR CONDITIONING UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	NOMINAL CAPACITY (TONS)	MIN. REQUIRED CAPACITY		SUPPLY AIR	ELECTRICAL	HEAT AT 17 DEG F	FLA	MCA	WEIGHT (LBS)	REMARKS
				TOTAL MBH	SENSIBLE MBH	CFM						
AC-1	MITSUBISHI	MSZ-FS18NA	1.5	21000	14490	300	208/1/60	12,800	0.65	1.0	34	1,2
AC-2	MITSUBISHI	MSZ-WR24NA	2.0	22500	20025	500	208/1/60	18,500	0.67	1.0	34	1,2

NOTES:
1. MOUNTED UNIT ON WALL 8 FEET ABOVE FINISHED FLOOR MINIMUM.
2. PROVIDE CONDENSATE DRAIN PIPING TO NEAREST FLOOR DRAIN, HUB DRAIN OR MOP SINK.

CONDENSING UNIT SCHEDULE

TAG	SERVICE	MANUFACTURER	MODEL NUMBER	MCA	MOCP	VOLTS/PH/HZ	WEIGHT	REMARKS
CU-1	TECH ROOM	MITSUBISHI	MUZ-FS18NAH	18	20	208/1/60	118	1,2,3
CU-2	ELECTRICAL ROOM	MITSUBISHI	MUZ-WR24NA	14	15	208/1/60	118	1,2,3

NOTES:
1. UNIT SHALL BE MOUNTED 18" EQUIPMENT CURB.
2. PROVIDE REFRIGERATION LINE SET INSTALLATION PER MANUFACTURER INSTALLATION REQUIREMENTS.
3. PROVIDE NEMA 3R DISCONNECT SWITCH.

VENTILATION SCHEDULE

Zone Identification	Occupancy Category	Zone Floor Area A_z (ft^2)	Area Outdoor Airflow Rate R_a (CFM/ft^2)	People Outdoor Airflow Rate R_p (CFM/person)	Zone Population P_z (People)	Zone Air Effectiveness E_z	Space Outdoor Air Voz (CFM)	Breathing Zone Outdoor Airflow V_{bz} (CFM)	Exhaust Rate (CFM/ft^2)	Required Exhaust Airflow (CFM)	Actual Provided Outdoor Airflow (CFM)	Actual Provided Exhaust Airflow (CFM)	Notes
C101 Corridor	Corridors	582	0.06	0	0	0.80	44	34.92	0	0	75		
C102 Corridor	Corridors	97	0.06	0	0	0.80	7	5.82	0	0	12		
101 Vestibule	Lobbies	136	0.06	5	2	0.80	23	18.16	0	0	39		
102 Admin	Office Space	225	0.06	5	2	0.80	29	23.5	0	0	50		
103 Storage	Other	75	0	0	0	0.80	0	0	0	0	0		
104 Storage	Office Space	119	0.06	5	1	0.80	15	12.14	0	0	26		
105 Office	Office Space	119	0.06	5	1	0.80	15	12.14	0	0	26		
106 Gary's Office	Office Space	152	0.06	5	1	0.80	18	14.12	0	0	30		
108 Mike's Office	Office Space	176	0.06	5	2	0.80	26	20.56	0	0	44		
110 Supervisor Office	Office Space	171	0.06	5	2	0.80	25	20.26	0	0	43		
111 Janitor	Occupiable Storage Rooms for Dry Materials	36	0.06	5	0	0.80	3	2.16	0	0	5		
112 Men RR	Toilets - Public	101	0	0	0	0.80	0	0	50	0	0	100	
113 Womens RR	Toilets - Public	52	0	0	0	0.80	0	0	50	0	0	50	
114 Kitchenette	Kitchenettes	123	0	0	3	0.80	0	0	0.3	36.9	0	50	
115 Conference Room	Conference/Meeting	196	0.06	5	8	0.80	65	51.76	0	0	110		
116 Meeting Room	Conference/Meeting	787	0.06	5	60	0.80	434	347.22	0	0	740		
117 Men's Locker Room	Locker/Dressing Rooms	572	0	0	0	0.80	0	0	0.25	143	0	145	
118 Men	Toilets - Public	262	0	0	0	0.80	0	0	50	280	0	280	2 WATER CLOSETS (50 CFM EACH), 2 URINALS (50 CFM EACH), 4 SHOWERS (20 CFM EACH.) CONTINUOUS EXUAST
119 Women	Toilets - Public	208	0	0	0	0.80	0	0	50	140	0	150	2 WATER CLOSETS (50 CFM EACH), 2 SHOWERS (20 CFM EACH.) CONTINUOUS EXUAST
120 Women's Locker Room	Locker/Dressing Rooms	145	0	0	0	0.80	0	0	0.25	36.25	0	50	
Total:		4334					703	563		636.15	1200	825	

EXHAUST FAN SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	CFM	E.S.P. (IN W.C.)	MOTOR (FLA)	ELECTRICAL	ACTIVATED	REMARKS
EF-1	GREENHECK	G-100-VG	825	0.75	3.8	120/1/60	SCHEDULE	1,2
EF-2	GREENHECK	AER-24-03-0321	6600	0.5	3.0	460/3/60	SWITCH/SENSOR	3
EF-3	GREENHECK	AER-24-03-0321	6600	0.5	3.0	460/3/60	SWITCH/SENSOR	3
EF-4	GREENHECK	SE116-421-A	1900	0.5	9.8	120/1/60	SWITCH/SENSOR	3
EF-5	GREENHECK	AER-24-03-0321	6600	0.5	3.0	460/3/60	SWITCH/SENSOR	3
EF-6	GREENHECK	SE1-12-432-VG	1200	0.25	3.8	120/1/60	SWITCH/SENSOR	2,3,4

NOTES:
1. PROVIDE WITH INSULATED ROOF CURB, BIRDSCREEN, BACKDRAFT DAMPER, AND NEMA 3R DISCONNECT SWITCH.
2. PROVIDE WITH EC MOTOR.
3. PROVIDE WITH WALL HOUSING, INLET GUARD, BIRD SCREEN, WEATHER HOOD, AND DISCONNECT SWITCH.
4. PROVIDE WITH TWO SPEED CONTROL MODULE.

VAV SCHEDULE

TAG	NUMBER	MAKE	MODEL	PRIMARY INLET SIZE	DESIGN COOLING AIRFLOW CFM	MIN. COOLING AIRFLOW CFM	DESIGN HEATING AIRFLOW CFM	EAT	LAT	KW	STAGES	DISCHARGE NC	RADIATED NC
VAV	1	TRANE	VCEF	8"	425	210	210	55	92.6	2.5	2	16	20
VAV	2	TRANE	VCEF	10"	750	750	750	55	92.9	9.0	2	19	15
VAV	3	TRANE	VCEF	8"	450	210	210	55	92.6	2.5	2	22	22
VAV	4	TRANE	VCEF	6"	200	120	120	55	94.5	1.5	1	16	17
VAV	5	TRANE	VCEF	10"	825	470	468	55	93.4	6.5	3	20	16
VAV	6	TRANE	VCEF	14"	1500	640	640	55	94.5	8.0	3	16	20
VAV	7	TRANE	VCEF	8"	400	170	170	55	92.2	2.0	1	18	20

NOTES:
1. AIR PRESSURE DROP AT COOLING AIRFLOW SHALL BE LESS THAN 0.3 INWC.
2. UNIT SHALL BE PROVIDED WITH 480/3 POWER.
3. PROVIDE SCR CONTROL FOR ELECTRIC REHEAT.

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	CFM	HxW	FREE AREA (ft^2)	PRESSURE DROP	REMARKS
LV-1	RUSKIN	ELF6375DX	6600	66X42	11.24	0.06	1
LV-2	RUSKIN	ELF6375DX	6600	66X42	11.24	0.06	1
LV-3	RUSKIN	ELF6375DX	1900	36X24	3.16	0.06	1
LV-4	RUSKIN	ELF6375DX	6600	66X42	11.24	0.06	1
LV-5	RUSKIN	ELF6375DX	1200	36X24	3.16	0.02	1

NOTES:
1. COLOR SELECTION BY ARCHITECT.

REGISTER, GRILLE, & DIFFUSER SCHEDULE

ID TAG	MFG	MODEL	FACE SIZE	NECK SIZE	MAX APD	MAX NC	MAT'L	NOTES
CD-1	TITUS	OMNI	24x24	8"Ø	0.112	25	STEEL	
CD-2	TITUS	OMNI	24x24	10"Ø	0.100	20	STEEL	
EG-1	TITUS	50	12x12	10X10	-	-	ALUMINUM	
RG-1	TITUS	50FF	24x24	22X22	-	-	ALUMINUM	
SG-1	TITUS	300FL	8X8	6X6	0.006	-	ALUMINUM	

UNIT HEATER SCHEDULE

TAG	LOCATION	MFG	MODEL	LENGTH	MBH INPUT	VENT DIAMETER	VOLTAGE	WEIGHT	NOTES
RH-1	GARAGE	ROBERTS GORDON	BH	60	200	4"	120/1/60	375	1
RH-2	WASH BAY	ROBERTS GORDON	HEV	21.7	150	4"	120/1/60	285	1,2

NOTES:
1. FURNISH WITH STANDARD REFLECTORS, AND REMOTE THERMOSTAT.
2. FIELD MODIFY REFLECTORS FOR U-BEND TUBING SECTION. REFLECTORS SHALL COMPLETELY COVER THE ENDS OF THE TUBE TO PROTECT WALL.

ELECTRIC UNIT HEATER SCHEDULE

TAG	LOCATION	MFG	MODEL	CFM	KW	MOTOR SPEC		WEIGHT	NOTES
						WATTS	VOLTAGE		
EUH-1	JANITOR CLOSET	BERKO	HUH524TA	270	9.0	8	208/1/60	24	1,2
EUH-2	FIRE PUMP ROOM	BERKO	HUH524TA	270	9.0	8	208/1/60	24	1,2

NOTES:
1. FURNISH WITH WALL MOUNTING BRACKET, VIBRATION ISOLATION, AND REMOTE THERMOSTAT.
2. INSTALL 9 FEET ABOVE FINISHED FLOOR.

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
2	02/02/23	ADDENDUM #1

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

MECHANICAL SCHEDULES

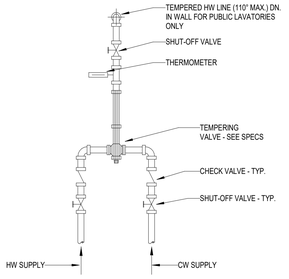
	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	BRF

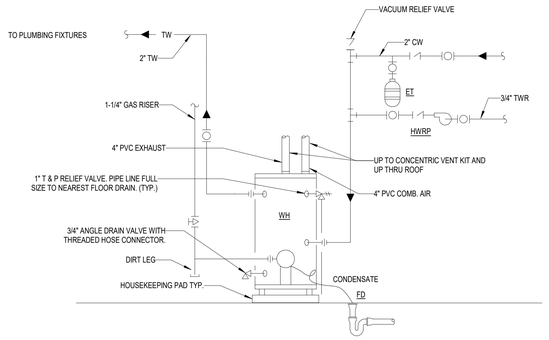
JOB NO.
2020377.05

M-601

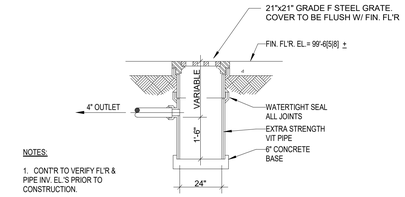
2/28/2023 10:22:46 AM



D1 TEMPERING VALVE FOR LAVATORIES
N.T.S.



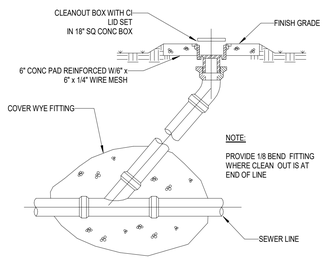
D4 WATER HEATER DETAIL
N.T.S.



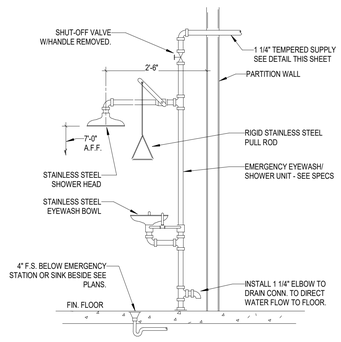
NOTES:

1. CONT'R TO VERIFY FL'R & PIPE INV. EL.'S PRIOR TO CONSTRUCTION.
2. VIT PIPE NOT TO BE EXPOSED AT FL'R.
3. SEE PLAN DWG. FOR EXACT PIPE CONNECTION ORIENTATION.

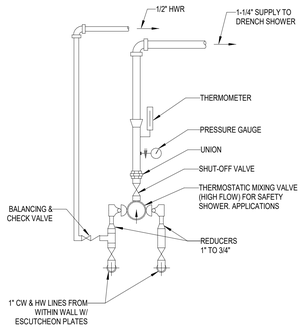
D6 GARAGE CATCH BASIN
N.T.S.



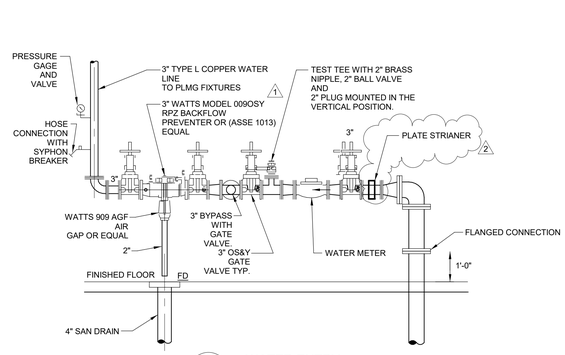
C1 EXTERIOR CLEANOUT
N.T.S.



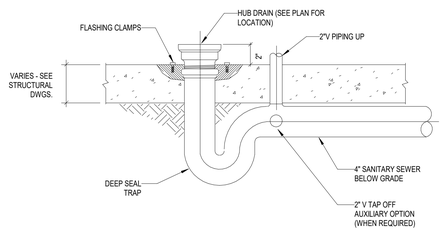
C2 EMERGENCY EYEWASH-SHOWER DETAIL
N.T.S.



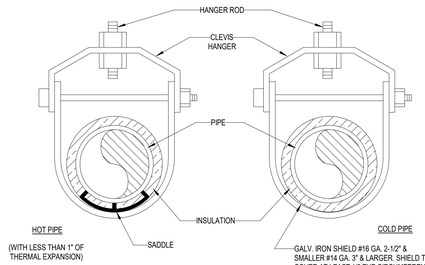
C4 TEMPERING VALVE ARRANGEMENT FOR SAFETY SHOWER
N.T.S.



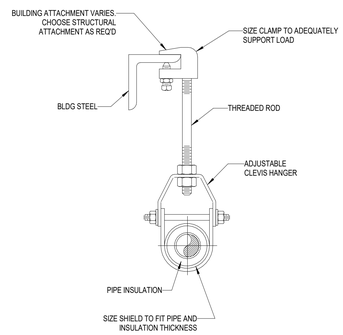
C6 WATER ENTRY
N.T.S.



A1 HUB DRAIN
N.T.S.



A4 PIPE HANGERS FOR INSULATED PIPES (TYPICAL)
N.T.S.



A6 PIPE HANGER DETAIL
N.T.S.

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	02/13/23	CANTON WATER DEPARTMENT REVISIONS
2	03/03/23	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

PLUMBING DETAILS

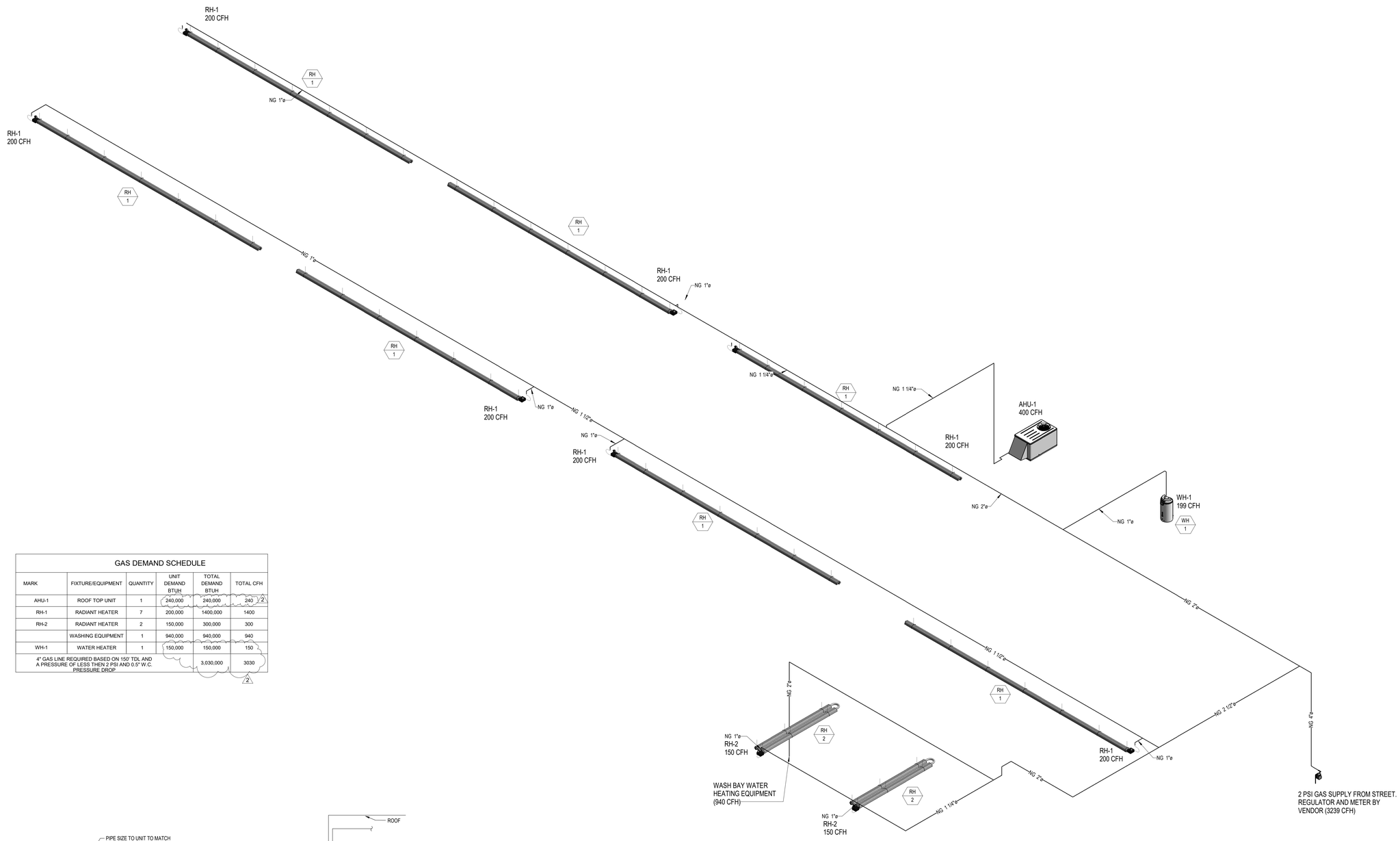
	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	BRF

JOB NO.
2020377.05

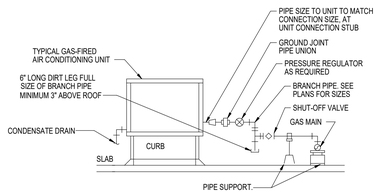
P-501

2/28/2023 10:22:47 AM



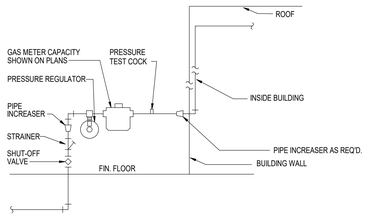
GAS DEMAND SCHEDULE

MARK	FIXTURE/EQUIPMENT	QUANTITY	UNIT DEMAND BTU/H	TOTAL DEMAND BTU/H	TOTAL CFH
AHU-1	ROOF TOP UNIT	1	240,000	240,000	240 2
RH-1	RADIANT HEATER	7	200,000	1400,000	1400
RH-2	RADIANT HEATER	2	150,000	300,000	300
	WASHING EQUIPMENT	1	940,000	940,000	940
WH-1	WATER HEATER	1	150,000	150,000	150
4" GAS LINE REQUIRED BASED ON 150' TDL AND A PRESSURE OF LESS THEN 2 PSI AND 0.5" W.C. PRESSURE DROP				3,030,000	3030 2



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT ACTUAL CONDITIONS. CONDENSATE TRAP SHALL BE ROUTED TO AVOID INTERFERENCE WITH RTU MAINTENANCE ACCESS DOORS.

A1 GAS CONNECTION TO ROOFTOP UNIT
N.T.S.



VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. INSTALL OTHER UTILITIES MINIMUM TEN FEET FROM GAS LINE. PLUMBING CONTRACTOR SHALL PAY ALL GAS COMPANY FEES FOR INSTALLATION. PLUMBING CONTRACTOR SHALL EXCAVATE, BACKFILL AND REPAIR ANY PAVING OR SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING, IF REQUIRED. COORDINATE ALL WORK AND RESPONSIBILITY WITH LANDLORD REPRESENTATIVE.

A2 GAS SERVICE
N.T.S.

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
2	03/10/23	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

GAS RISER DIAGRAM

	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	BRF

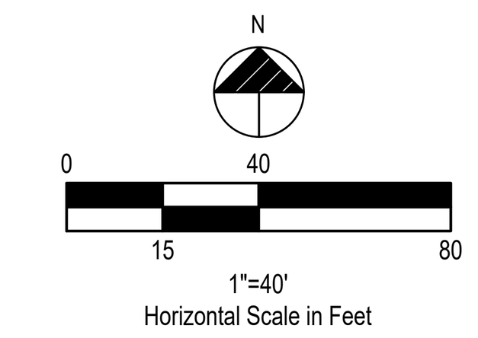
JOB NO.
2020377.05

P-703

2/28/2023 10:22:49 AM

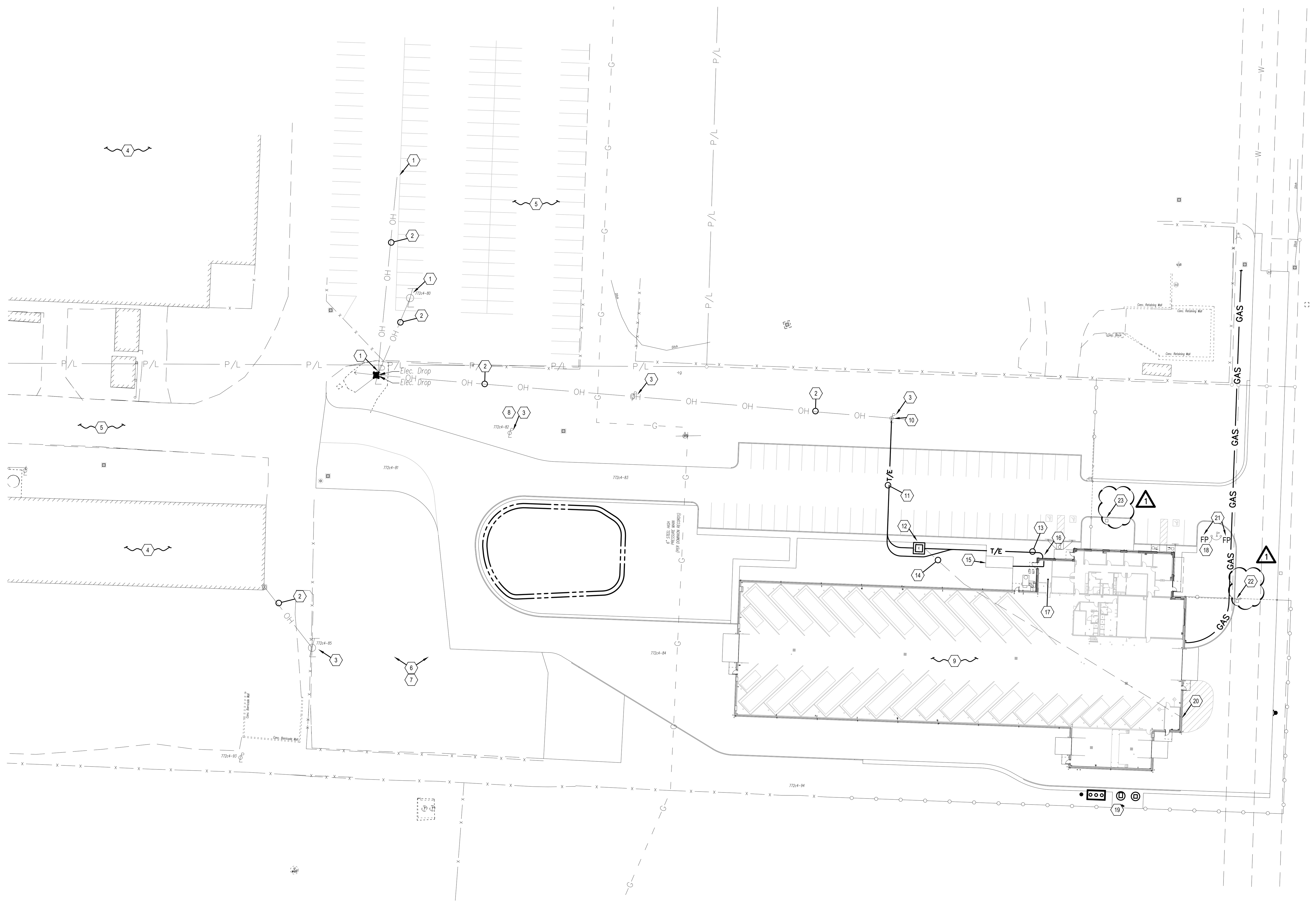
GPD GROUP®
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101



OHIO811.org Before You Dig

UTILITIES SHOWN ON SURVEY WERE LOCATED BASED ON FIELD MARKING PROVIDED BY OUPS REQUEST #A207700537 AND #A207700538.



REGENT AVE NE

GENERAL NOTES

A. PHASING - SEE PROJECT MANUAL FOR SPECIFIC PHASING INSTRUCTIONS. COORDINATE SHUT-DOWN OF ANY UTILITY IN ADVANCE WITH THE OWNER.
B. E.C. SHALL SEAL OPENINGS WATERPROOF OR FIREPROOF, TO RATING OF STRUCTURE PENETRATED FILL ALL OPENINGS WITH MATERIALS AS DIRECTED BY THE ARCHITECT AND FINISH TO MATCH SURROUNDING AREAS. ALL OPENINGS REQUIRED SHALL BE APPROVED BY THE ARCHITECT PRIOR TO DEMOLITION OR CORE DRILLING.
C. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR SHAFTS SHALL BE SEALED IN ACCORDANCE WITH SPECIFICATIONS.
D. PROVIDE AN UPDATED, TYPED PANELBOARD LEGEND FOR EACH AFFECTED PANEL.
E. ROUTING OF ALL SURFACE MOUNTED/EXPOSED CONDUIT IN UNFINISHED AREAS (OR WHERE NOTED ON THE DRAWINGS) SHALL BE COORDINATED WITH EXISTING CONDITIONS.
F. THE PHRASE "PROVIDED BY" USED WITHIN THESE DOCUMENTS SHALL EXPLICITLY REPRESENT "FURNISHED AND INSTALLED BY".
G. ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".
H. ALL CONDUCTORS SHALL BE COPPER.
I. CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. E.C. SHALL PROVIDE A TYPED PANELBOARD SCHEDULE AND INSTALL IT ON INSIDE COVER OF EACH PANEL.
J. DRAWINGS ARE DIAGRAMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS, HEADROOM, ETC. THAT IS TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.
K. WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. E.C. SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY NEC (NOT TO EXCEED 3%).
L. ALL WIRING SHALL BE #12 WITH GROUND WIRE UON (INCREASE TO #10 FOR CIRCUITS OVER 75 FT.
M. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH A SEPARATE NEUTRAL CONDUCTOR. NEUTRALS SHALL NOT BE SHARED PER 2017 NEC 210.4 (B).
N. CONTRACTOR TO ROUTE TRENCHING & EXCAVATING TO MINIMIZE DAMAGE TO EXISTING LANDSCAPING.
O. CONTRACTOR TO REMOVE EXCESS EXCAVATION MATERIALS FROM SITE.
P. EXISTING LIGHTS TO BE OPERATIONAL AT END OF EACH DAY. PROVIDE TEMPORARY PROVISIONS AS REQUIRED.
Q. AREA IS HEAVY WITH PIPING, UTILITIES, ETC. ADJUST DEPTH AND ROUTE OF NEW CONDUIT AND TRENCHING AS REQUIRED TO AVOID CONFLICTS.

CONSTRUCTION KEYNOTES (#)

1. UTILITY POLE TO REMAIN.
2. OVERHEAD UTILITY LINES TO REMAIN.
3. WOODEN POLE WITH FLOOD LIGHT TO REMAIN.
4. BUILDING TO REMAIN.
5. PAVING TO REMAIN.
6. REFER TO DEMO SITE PLAN FOR WORK ON AEP LIGHT POLES.
7. SEE CODED NOTE #6 FOR OVERHEAD LINES TO RELOCATED POLES.
8. REFEED FLOOD LIGHT.
9. PROPOSED NEW BUILDING.
10. EXISTING POLE, USE AS PROPOSED NEW UNDERGROUND SERVICE DROP LOCATION. COORDINATE WITH POWER COMPANY.
11. PROPOSED NEW UNDERGROUND SERVICE LATERAL. COORDINATE WITH POWER COMPANY.
12. PROPOSED NEW PADMOUNT WITH TAPS FOR BUILDING SERVICE AND FIRE PUMP. COORDINATE WITH POWER COMPANY.
13. PROPOSED NEW BUILDING SERVICE ENTRANCE. REFER TO RISER DIAGRAM.
14. PROPOSED NEW FIRE PUMP SERVICE ENTRANCE. REFER TO RISER DIAGRAM.
15. PROPOSED GENERATOR. REFER TO RISER DIAGRAM.
16. PROPOSED NEW METER/CT CABINET. REFER TO RISER DIAGRAM.
17. PROPOSED MAIN ELECTRICAL ROOM. REFER TO FLOOR PLANS.
18. CONNECT TO EXTERIOR WALL PACK LIGHTING CIRCUIT. #12'S, 3/4"C. REF ER TO LIGHTING PLANS.
19. PUMP STATION (60A,208V,3PH,4W). REFER TO RISER DIAGRAM.
20. PROPOSED NEW FIRE PUMP METER/CT CABINET. REFER TO RISER DIAGRAM.
21. FLAGPOLE LIGHT. REFER TO LIGHT FIXTURE SCHEDULE.
22. MOTORIZED GATE (120V,1Ø). 2-#10,1-#10G,3/4"C.
23. FUTURE MOTORIZED GATE. PROVIDE 1" CONDUIT WITH PULLWIRE TO ELEC ROOM AND CAP.

REV.	DATE	DESCRIPTION
1	03/03/2023	ADDENDUM 01

SANITATION BUILDING PROJECT - GP 1376
2801 REGENT AVE NE,
CANTON, OHIO 44705

ELECTRICAL SITE PLAN - NEW

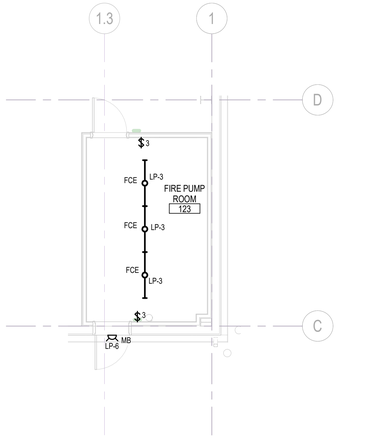
ISSUED FOR:	
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
MLH	EDC

JOB NO.
2020377.05

ES101

Drawing Name: O:\2020\2020377\05 - Sanitation Building\4_Working Files\00_CAD (2020)\E\2020377.05 Electrical Site Plan.dwg
March 2, 2023 11:21 AM - dchapman



D1 ENLARGED LIGHTING PLAN - FIRE PUMP ROOM
3/16" = 1'-0"

C4 ENLARGED LIGHTING - OFFICES
3/16" = 1'-0"

INTERIOR LIGHTING CONTROL SCHEME

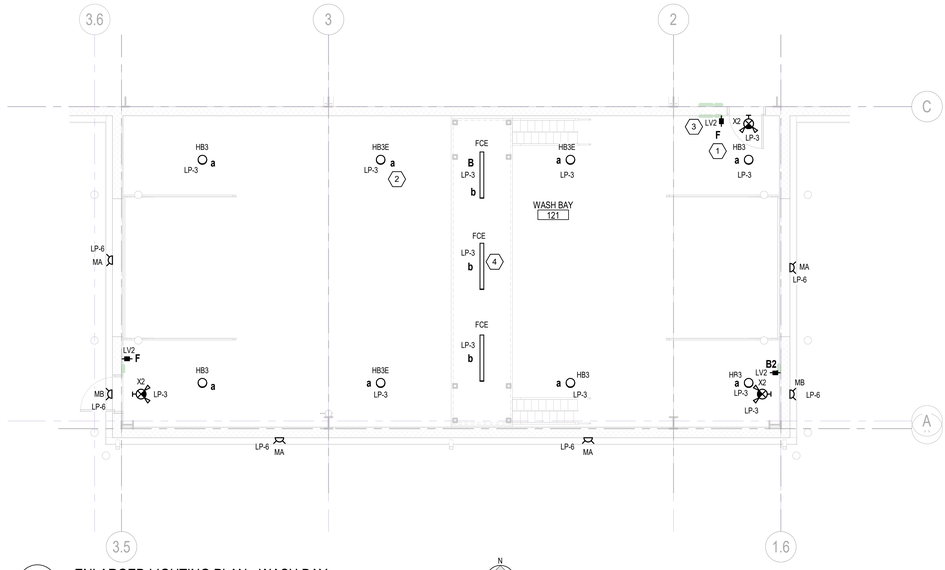
DESIGNATION	DESCRIPTION
C	ONE ZONE; FULL DIMMING, VACANCY SENSOR, MANUAL ON OPERATION; RECEPTACLE CONTROL (1)
D	ON/OFF; OCCUPANCY SENSOR WALL SWITCH.
F*	CONNECTED TO OVERALL LIGHTING CONTROL SYSTEM FOR TIME OF DAY OPERATION; PROVIDE SEPERATE CONTROL OF EACH ZONE AND LOCAL DUAL BUTTON FOR ALL 'ON/OFF' CONTROL AT SPACE ENTRIES FOR MANUAL OPERATION/OVERRIDE. F* - (*) INDICATES SEPERATE CONTROL ZONE.
G*	CONNECTED TO OVERALL LIGHTING CONTROL SYSTEM FOR TIME OF DAY OPERATION; PROVIDE SEPERATE CONTROL OF EACH ZONE AND LOCAL SINGLE BUTTON FOR ALL 'ON/OFF' CONTROL AT SPACE ENTRIES FOR MANUAL OPERATION/OVERRIDE. G* - (*) INDICATES SEPERATE CONTROL ZONE.
H	2-ZONES; FULL DIMMING; VACANCY SENSOR; MANUAL ON OPERATION. CONNECTED TO OVERALL LIGHTING CONTROL SYSTEM FOR TIME OF DAY OPERATION; LOCAL OVERRIDE SWITCHES FOR EACH ZONE FULL OPERATION(PER DRAWINGS); RECEPTACLE CONTROL (1)

GENERAL NOTES

A. PHASING - SEE PROJECT MANUAL FOR SPECIFIC PHASING INSTRUCTIONS. COORDINATE SHUT-DOWN OF ANY UTILITY IN ADVANCE WITH THE OWNER.
B. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR SHAFTS SHALL BE SEALED IN ACCORDANCE WITH SPECIFICATIONS.
C. PROVIDE A NEW BLANK COVERPLATE OVER ALL UNUSED BACKBOXES.
D. DRAWINGS ARE DIAGRAMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS, HEADROOM, ETC. THAT IS TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.
E. WIRE ALL EXIT SIGNS AND EMERGENCY BATTERY PACKS AHEAD OF LOCAL SWITCHING.

PLAN KEYNOTES

1. UPPER CASE LETTER DENOTES CONTROL SCHEME, TYP. REFER TO INTERIOR LIGHTING CONTROL SCHEME.
2. LOWER CASE LETTER DENOTES SWITCHING ZONE WITHIN SPECIFIC ROOM. TYP.
3. OVERRIDE SWITCH. NUMBER INDICATES QTY OF BUTTONS FOR MANUAL OPERATION. TYP.
4. FIXURE PROVIDED WITH EMERGENCY BATTERY DRIVER. CONNECT AHEAD OF LOCAL SWITCHING. TYP.
5. LIGHTING ZONE TOUCH PAD.
6. TIME OF DAY MODULE.
7. LIGHTING CONTROL PANEL.
8. LIGHTING MOUNTED UNDER STAIR LANDING. CONTROL WITH GARAGE ZONE 1
9. CONTROL WITH GARAGE ZONE 2.



A4 ENLARGED LIGHTING PLAN - WASH BAY
3/16" = 1'-0"

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	3/2/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

ENLARGED LIGHTING PLANS - OFFICES, WASH BAY, FIRE PUMP ROOM

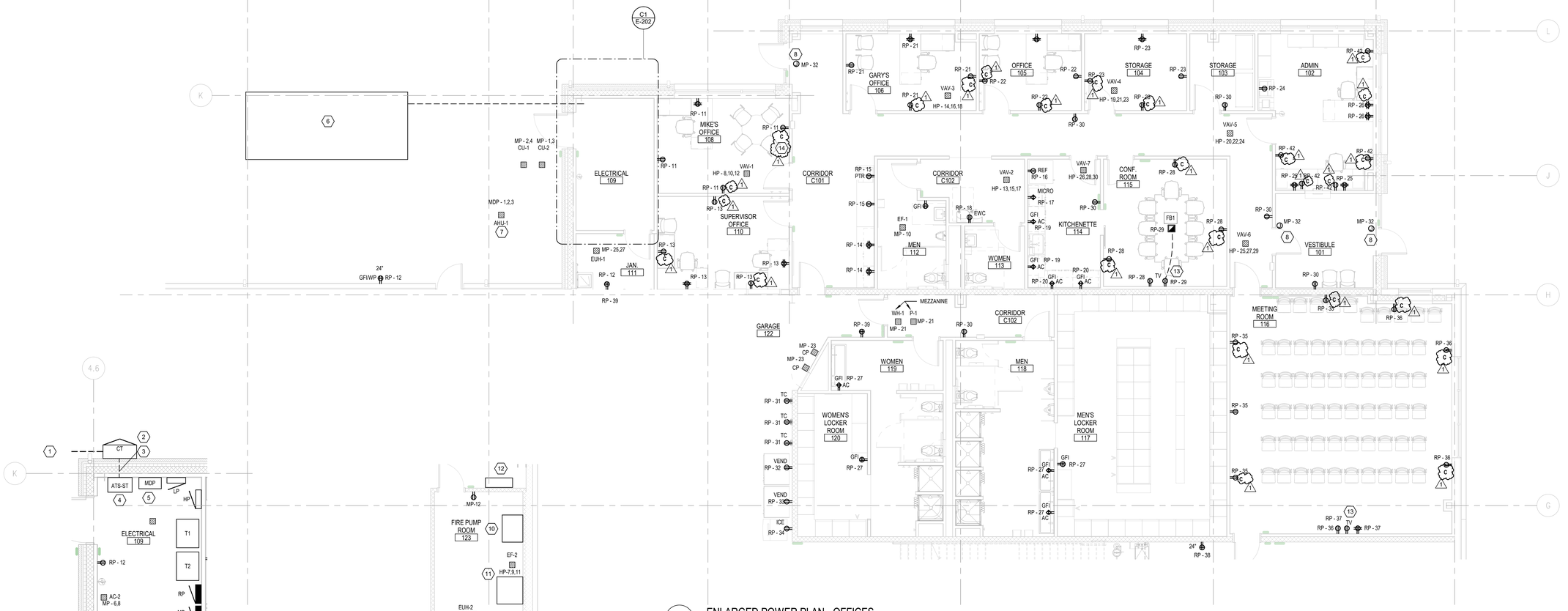
	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	DC

JOB NO. 2020377.05

E-102

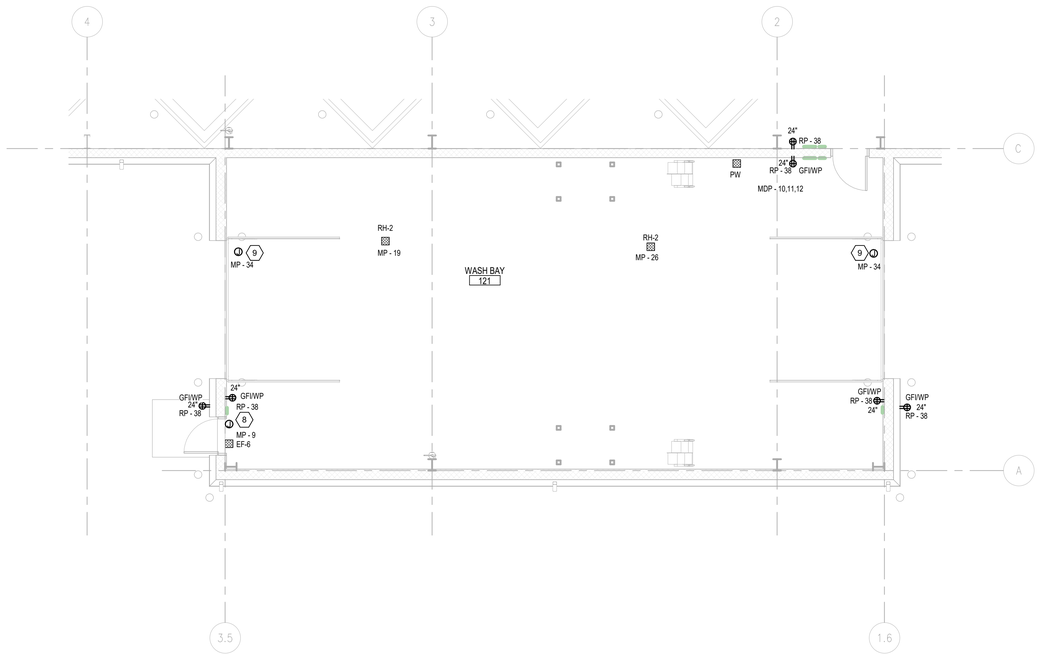
3/2/2023 1:01:58 PM



C1 ENLARGED POWER PLAN - ELEC ROOM
1/4" = 1'-0"

C2 ENLARGED POWER PLAN - FIRE PUMP ROOM
3/16" = 1'-0"

C3 ENLARGED POWER PLAN - OFFICES
3/16" = 1'-0"



A3 ENLARGED POWER PLAN - WASH BAY
3/16" = 1'-0"

GENERAL NOTES

A. PHASING - SEE PROJECT MANUAL FOR SPECIFIC PHASING INSTRUCTIONS. COORDINATE SHUT-DOWN OF ANY UTILITY IN ADVANCE WITH THE OWNER.
B. WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE E.C. SHALL CORE DRILL OR CUT AND CHASE WALLS AND FLOORS AS REQUIRED FOR NEW CONDUITS AND RACEWAYS. E.C. SHALL SEAL OPENINGS WATERPROOF OR FIREPROOF, TO RATING OF STRUCTURE PENETRATED FILL ALL OPENINGS WITH MATERIALS AS DIRECTED BY THE ARCHITECT AND FINISH TO MATCH SURROUNDING AREAS. ALL OPENINGS REQUIRED SHALL BE APPROVED BY THE ARCHITECT PRIOR TO DEMOLITION OR CORE DRILLING.
C. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR SHAFTS SHALL BE SEALED IN ACCORDANCE WITH SPECIFICATIONS.
D. PROVIDE A NEW BLANK COVERPLATE OVER ALL UNUSED BACKBOXES.
E. THE PHRASE "PROVIDED BY" USED WITHIN THESE DOCUMENTS SHALL EXPLICITLY REPRESENT "FURNISHED AND INSTALLED BY".
F. ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".
G. ALL CONDUCTORS SHALL BE COPPER.
H. CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. E.C. SHALL PROVIDE A TYPED PANELBOARD SCHEDULE AND INSTALL IT ON INSIDE COVER OF EACH PANEL.
I. DRAWINGS ARE DIAGRAMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS, HEADROOM, ETC. THAT IS TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.
J. WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. E.C. SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY NEC (NOT TO EXCEED 3%).
K. LABEL RECEPTACLES AND JUNCTION BOXES WITH CIRCUIT/PANEL PER OWNER REQUIREMENTS.
L. ALL WIRING SHALL BE #12 WITH GROUND WIRE UON (INCREASE TO #10 FOR CIRCUITS OVER 75 FT.
M. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH A SEPARATE NEUTRAL CONDUCTOR. NEUTRALS SHALL NOT BE SHARED PER 2017 NEC 210.4 (B).

PLAN KEYNOTES

1. NEW PROPOSED UNDERGROUND TO UTILITY POLE. REFER TO ELECTRICAL SITE PLAN FOR CONTINUATION.
2. NEW METERCT CABINET. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
3. NEW SERVICE ENTRANCE. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
4. NEW SE RATED ATS. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
5. NEW MAIN DISTRIBUTION PANEL (600A,480/277V,3PH,4W) TO REMAIN. NEW SERVICE ENTRANCE. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONCRETE PAD FOR GENERATOR. REFER TO RISER DIAGRAM.
7. MECHANICAL EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE, TYP.
8. POWER FOR DOOR SECURITY DEVICE (120V,1PH). COORDINATE EXACT REQUIREMENTS WITH ACCESS CONTROL CONTRACTOR.
9. NEW OVERHEAD DOOR OPERATOR (120V,1PH) WITH INTEGRATED DOOR OPERATOR PUSHBUTTON. CONTRACTOR TO INSTALL AND WIRE BUTTON. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER. COORDINATE ROUGHIN LOCATION IN FIELD PRIOR TO INSTALLATION.CONTRACTOR TO INSTALL ALL REQUIRED COMPONENTS, INCLUDING SENSORS, SWITCHES ETC AND ALL ASSOCIATED POWER AND CONTROL WIRING FOR COMPLETE WORKING SYSTEM. DEVICES AND CONNECTIONS TO BE WEATHERPROOF.
10. COMBINATION ATS/FIRE PUMP CONTROLLER. REFER TO RISER DIAGAM FOR ADDITIONAL INFORMATION.
11. FIRE PUMP (50HP,480V,3PH). REFER TO RISER DIAGAM FOR ADDITIONAL INFORMATION. COORDIANTE WITH FIRE PROTECTION DESIGNER.
12. BOOSTER PUMP WITH CONTROL PANEL. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION. COORDIANTE WITH FIRE PROTECTION DESIGNER.
13. COORDINATE OUTLET HEIGHT WITH TV MOUNTING HEIGHT. MATCH TV CONNECTOR HEIGHTS. COORDINATE WITH TELECOM PLANS. TYP.
14. LETTER DENOTES CONTROL ZONE, ASSOCIATED WITH LIGHTING CONTROL CIRCUIT FOR AUTOMATIC RECEPTACLE CONTROL FOR ENERGY CODE COMPLIANCE. TYP. PROVIDE LABEL ON RECEPTACLE PLATE NOTING RECEPTACLE IS AUTOMATICALLY CONTROLLED.

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	3/2/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

ENLARGED POWER PLAN - OFFICES

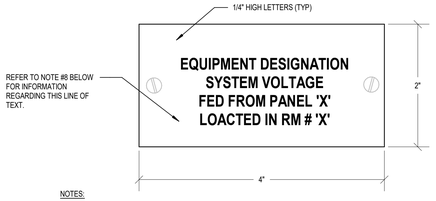
	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	DC

JOB NO.
2020377.05

E-202

3/2/2023 1:01:28 PM



NOTES:

1. PROVIDE LAMOCOID NAMEPLATE ENGRAVED WITH WHITE LETTERS.
2. NAMEPLATE SHALL BE THE FOLLOWING COLORS:

   GREEN - NORMAL POWER ON 480/277 VOLT
   BLACK - NORMAL POWER ON 208/120 VOLT
   RED - EMERGENCY POWER (ALL VOLTAGES)
3. SECURE NAMEPLATE TO EQUIPMENT WITH TWO SHEET METAL SCREWS.
4. PROVIDE A NAMEPLATE FOR EVERY MAJOR ELECTRICAL DEVICE OR ELECTRICAL CONTROLS WEATHER PROVIDED BY DIVISION 26 OR BY ANOTHER DIVISION (SUCH AS DIVISION 23) INCLUDING BUT NOT LIMITED TO: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, LIGHTING CONTROL PANELS, STARTERS, DISCONNECT SWITCHES, ETC. (AS APPLICABLE).
5. REFER TO SPECIFICATION SECTION 260553 FOR FURTHER DESCRIPTION.
6. EQUIPMENT DESIGNATION SHOULD INDICATE NAME OF PANELBOARD OR TYPE OF EQUIPMENT BE SERVED (I.E. "PANEL LPA", "PUMP CWP-1").
7. SYSTEM VOLTAGE SHALL INDICATE VOLTAGE AND PHASE SUCH AS: 480/277V,3Ø, 240/120V,1Ø, ETC.
8. THE THIRD LINE OF TEXT SHALL INDICATE UPSTREAM POWER SOURCE IDENTIFIED BY ITS NAME, SUCH AS "TRANSFORMER T1", PANEL "LPA", ETC.
9. THE FOURTH LINE (OR POSSIBLY A FIFTH LINE OF TEXT) IS REQAUIRED DUE TO LOCATION OF A PANEL FEEDING EQUIPMENT WICH IS NOT IIN THE GENERAL VICNITY OF EQUIPMENT BEING FED OR IS LOCATED ON ANOTHER FLOOR, ETC. THE NAMEPLATE SHALL BE INCREASAED IN SIZE AS REQUIRED TO HAVE THIS INFORMATION AVAILABLE FOR FUTURE REFERENCE BY MAINENANCE PERSONNEL.

D3 NAMEPLATE DETAIL
N.T.S.

ORANGE LABEL WITH SOLID BLACK LETTERING.

WARNING

QUALIFIED WORKERS ONLY
Appropriate PPE Required

7.5	Inches Flash Hazard Boundary
Category 0	Flash Hazard Category
0.4	Cal/cm^2 Flash Hazard at 35.8 Inches
5.0	kA Bolted Fault Current

Arc Flash boundary at energy = 1.2 cal/cm^2

SHOCK HAZARD

480	**Volts Shock Hazard when cover is removed**
00	**Glove Class with Leather Protectors**
120 inches	Limited Approach Boundary
12 inches	Restricted Approach Boundary
1 inches	Prohibited Approach Boundary

Equipment Name: 01
Date: Jan. 1, 2013

'WARNING' ARC FLASH LABEL NOTES:

1. REFER TO EQUIPMENT SPECIFICATION #260553 FOR FURTHER DESCRIPTION.
2. FOR HAZARD/RISK CATEGORY 0,1,2,3,& 4) 0-40 cal/cm², USE ORANGE "WARNING" LABELS WITH SOLID BLACK LETTERS.
3. ALL LABELS SHALL BE PRINTED WITH PERMANENT INK ON WEATHERPROOF LABELS WITH SELF-STICKING ADHESIVE.
4. ANY ELECTRICAL EQUIPMENT THAT HAS A DOOR SHALL BE PROVIDED WITH A LABEL ON BOTH SIDES OF THE DOOR.

RED LABEL WITH SOLID WHITE LETTERING.

DANGER

QUALIFIED WORKERS ONLY
Appropriate PPE Required

25	Inches Flash Hazard Boundary
Category >4	Flash Hazard Category
45	Cal/cm^2 Flash Hazard at 35.8 Inches
5.0	kA Bolted Fault Current

Arc Flash boundary at energy = 1.2 cal/cm^2

SHOCK HAZARD

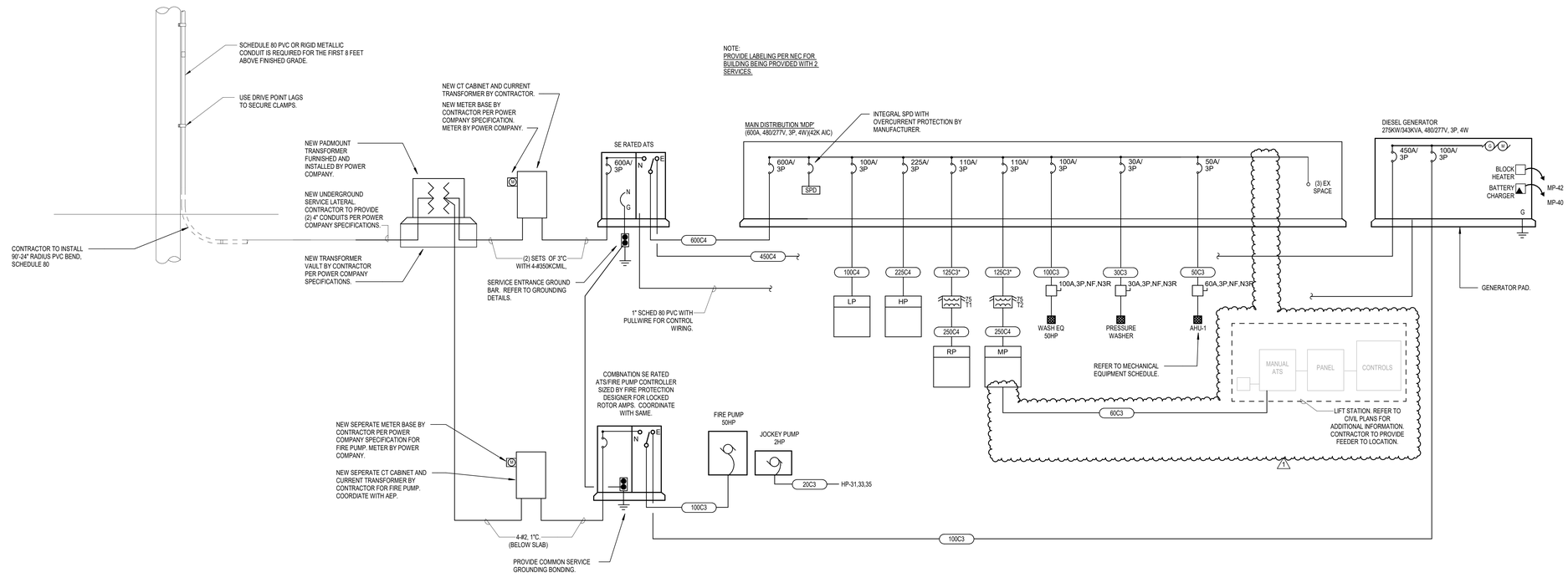
480	**Volts Shock Hazard when cover is removed**
00	**Glove Class with Leather Protectors**
120 inches	Limited Approach Boundary
12 inches	Restricted Approach Boundary
1 inches	Prohibited Approach Boundary

Equipment Name: 01
Date: Jan. 1, 2013

'DANGER' ARC FLASH LABEL NOTES:

1. REFER TO EQUIPMENT SPECIFICATION #260553 FOR FURTHER DESCRIPTION.
2. FOR EQUIPMENT LABELS WITH INCIDENT ENERGY LEVELS >40 cal/cm², USE RED "WARNING" LABELS WITH SOLID WHITE LETTERS.
3. ALL LABELS SHALL BE PRINTED WITH PERMANENT INK ON WEATHERPROOF LABELS WITH SELF-STICKING ADHESIVE.
4. ANY ELECTRICAL EQUIPMENT THAT HAS A DOOR SHALL BE PROVIDED WITH A LABEL ON BOTH SIDES OF THE DOOR.

D4 ARC FLASH WARNING DETAIL
N.T.S.



B3 SINGLE-LINE RISER DIAGRAM
N.T.S.

TRANSFORMER FEEDER SIZING CHART

NOTE: (#) INDICATES NUMBER OF PARALLEL RUNS OF CONDUIT.

KVA	PRIMARY PROTECTION (FUSE / CB) 125%	PRIMARY FEEDER	PRI FULL LOAD	SECONDARY FEEDER & SUPPLY-SIDE BONDING JUMPER	GND ELECTRODE (NEC 250.66)	SYSTEM BONDING JUMPER (NEC 250.66)	SEC FULL LOAD	SECONDARY PROTECTION (FUSE / CB) 125%
COPPER FEEDER								
45	70	3-#4, 1-#8G, 1"C	54	4-#1/0, 1-#6G, 2"C	#6	#6	125	150
75	125	3-#1, 1-#6G, 1-1/2"C	90	4-#250, 1-#2G, 2-1/2"C	#2	#2	208	250

FEEDER SCHEDULE

DESIGNATION	CONDUCTOR (ALUMINUM)	CONDUCTOR (COPPER)
20C3	COPPER ONLY	3-#12, 1-#12G, 3/4"C
30C3	COPPER ONLY	3-#10, 1-#10G, 3/4"C
50C3	COPPER ONLY	3-#6, 1-#10G, 3/4"C
60C3	COPPER ONLY	3-#4, 1-#10G, 1"C
100C3	3-#1/0, 1-#6G, 2"C	3-#1, 1-#8G, 1-1/2"C
125C3*	3-#1 1-#4G, 2"C	3-#2, 1-#6G, 2"C
100C4	4-#1/0, 1-#6G, 2"C	4-#1, 1-#8G, 1-1/2"C
225C4	4-#300kcmil, 1-#2G, 2-1/2"C	4-#4/0, 1-#4G, 2-1/2"C
250C4	4-#350kcmil, 1-#2G, 3"C	4-#250kcmil, 1-#4G, 2-1/2"C
450C4	4-#300kcmil, 1-#1/0G, (2) 2-1/2"C	4-#4/0, 1-#2G, (2) 2-1/2"C
600C4	4-#500kcmil, 1-#2/0G, (2) 3"C	4-#350kcmil, 1-#1G, (2) 3"C

(####%@*)

= WIRE AMPERAGE
% = WIRE MATERIAL
@ = NUMBER OF CONDUCTORS
* = WIRE SIZE OVERWRITTEN

RISER NOTES

1. VERIFY FAULT CURRENT AVAILABLE AT THE SECONDARY OF THE UTILITY TRANSFORMER WITH TRANSFORMER SUBMITTAL CONDUCT A FAULT CURRENT ANALYSIS AS REQUIRED BY THE SPECIFICATIONS TO DETERMINE THE INTERRUPTING CAPACITY (AIC RATING) OF THE ELECTRICAL EQUIPMENT. FURNISH THE RESULTS OF THE STUDY/ANALYSIS WITH THE EQUIPMENT SUBMITTALS TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING EQUIPMENT. ANY EQUIPMENT SUBMITTED FOR REVIEW WITHOUT THIS DOCUMENTATION WILL BE REJECTED AND RETURNED TO THE E.C. FOR REPROCESSING.
2. PROVIDE ALL ARC-FAULT LABELING AS REQUIRED BY DRAWINGS AND PER SPECIFICATIONS.
3. PROVIDE LAMACOID NAMEPLATES AS REQUIRED BY DRAWINGS AND/OR SPECIFICATIONS.
4. PER NEC 239.95(C), GROUND FAULT PROTECTION PROVIDED IN THE SERVICE ENTRANCE EQUIPMENT SHALL BE PERFORMANCE-TESTED WHEN FIRST INSTALLED ON SITE. THE TEST SHALL BE CONDUCTED ACCORDING TO INSTRUCTIONS PROVIDED WITH THE EQUIPMENT. A WRITTEN RECORD OF THIS TEST SHALL BE MADE AND SHALL BE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION.
5. ALL 120/208V PANELBOARDS SHALL BE 22kAIC UNLESS OTHERWISE NOTED.
6. ALL CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	3/10/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

ELECTRICAL SINGLE LINE DIAGRAM

	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	DC

JOB NO.
2020377.05

E-601

3/2/2023 1:02:49 PM

DIST. PANEL: MDP

LOCATION: ELECTRICAL 109 | **VOLTS:** 480/277 Wye | **A.I.C. RATING:** 42 KAIC
SUPPLY FROM: | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 600 A
ENCLOSURE: N1 | **MCB RATING:** 600 A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C
1	AHU-1	50 A	3	11080 VA		
2					11080 VA	
3						11080 VA
4	T1, 120 V/208 V, Three Phase, 4 Wires, Wye	110 A	3	10440 VA		
5					13360 VA	
6						10060 VA
7	T2, 120 V/208 V, Three Phase, 4 Wires, Wye	110 A	3	24644 VA		
8					23268 VA	
9						22556 VA
10	PRESSURE WASHER	30 A	3	5540 VA		
11					5540 VA	
12						5540 VA
13	WASH EQUIPMENT	100 A	3	18005 VA		
14					18005 VA	
15						18005 VA
16	HP	225 A	3	46010 VA		
17					17760 VA	
18						17760 VA
19	LP	100 A	3	7951 VA		
20					7816 VA	
21						4258 VA
22	SPACE	--	--	0 VA		
23	SPACE	--	--		0 VA	
24	SPACE	--	--			0 VA
25	SPACE	--	--	0 VA		
26	SPACE	--	--		0 VA	
27	SPACE	--	--			0 VA
28	SPACE	--	--	0 VA		
29	SPACE	--	--		0 VA	
30	SPACE	--	--			0 VA
31	SPACE	--	--	0 VA		
32	SPACE	--	--		0 VA	
33	SPACE	--	--			0 VA
34	SPACE	--	--	0 VA		
35	SPACE	--	--		0 VA	
36	SPACE	--	--			0 VA
37	SPACE	--	--	0 VA		
38	SPACE	--	--		0 VA	
39	SPACE	--	--			0 VA
40	SPACE	--	--	0 VA		
41	SPACE	--	--		0 VA	
42	SPACE	--	--			0 VA
			TOTAL LOAD:	123670 VA	96828 VA	89259 VA
			TOTAL AMPS:	451 A	354 A	322 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
HVAC	68527 VA	100.00%	68527 VA	
Lighting	20025 VA	100.00%	20025 VA	**TOTAL CONN. LOAD:** 309757 VA
Power	32990 VA	100.00%	32990 VA	**TOTAL DEMAND LOAD:** 297827 VA
Receptacle	33860 VA	64.77%	21930 VA	**TOTAL CONN. CURRENT:** 373 A
Heating	83600 VA	100.00%	83600 VA	**TOTAL DEMAND CURRENT:** 358 A
Equipment	70635 VA	100.00%	70635 VA	
Water Heater	120 VA	100.00%	120 VA	

BRANCH PANEL: HP

LOCATION: ELECTRICAL 109 | **VOLTS:** 480/277 Wye | **A.I.C. RATING:** 42 KAIC
SUPPLY FROM: MDP | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: NEMA 1

NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES
	1				831	831					2	
	3	EF-5	20 A	3			831	831	3	20 A EF-3	4	
	5							831	831		6	
	7				831	833					8	
	9	EF-2	20 A	3			831	833	3	15 A VAV-1	10	
	11							831	833		12	
	13				3000	833					14	
	15	VAV-2	20 A	3		3000	833		3	15 A VAV-3	16	
	17							3000	833		18	
	19				500	2167					20	
	21	VAV-4	15 A	3			500	2167	3	15 A VAV-5	22	
	23							500	2167		24	
	25				6667	1267					26	
	27	VAV-6	15 A	3			6667	1267	3	15 A VAV-7	28	
	29							6667	1267		30	
	31				28250	0					32	
	33	JOCKEY PUMP	20 A	3		0	0		1	20 A SPARE	34	
	35							0	0		36	
	37	SPARE	20 A	1	0	0			1	20 A SPARE	38	
	39	SPARE	20 A	1			0	0	1	20 A SPARE	40	
	41	SPARE	20 A	1					1	20 A SPARE	42	
			TOTAL LOAD:		46010 VA	17760 VA	17760 VA					
			TOTAL AMPS:		166 A	64 A	64 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
HVAC	7479 VA	100.00%	7479 VA	
Power	28250 VA	100.00%	28250 VA	**TOTAL CONN. LOAD:** 81529 VA
				TOTAL DEMAND LOAD: 81529 VA
				TOTAL CONN. CURRENT: 98 A
				TOTAL DEMAND CURRENT: 98 A

BRANCH PANEL: LP

LOCATION: ELECTRICAL 109 | **VOLTS:** 480/277 Wye | **A.I.C. RATING:** 42 KAIC
SUPPLY FROM: MDP | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 100 A
ENCLOSURE: NEMA 1

NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES
	1	MEZZ AND CENTER GARAGE LTG	20 A	1	3316	4635		1	20 A	GARAGE LTG ROWS 1 AND 2	2	
	3	GARAGE LTG ROW 5	20 A	1		4666	3150	1	20 A	GARAGE LTG ROW 4	4	
	5	OFFICE LIGHTING	20 A	1			3208	1050	1	20 A EXT WALL PACK	6	
	7	SPARE	20 A	1	0	0		--	--	SPACE	8	--
	9	SPARE	20 A	1		0	0	--	--	SPACE	10	--
	11	SPARE	20 A	1			0	0	--	-- SPACE	12	--
	13	SPARE	20 A	1	0	0		--	--	SPACE	14	--
	15	SPARE	20 A	1		0	0	--	--	SPACE	16	--
	17	SPARE	20 A	1			0	0	--	-- SPACE	18	--
	19	SPARE	20 A	1	0	0		--	--	SPACE	20	--
	21	SPARE	20 A	1		0	0	--	--	SPACE	22	--
	23	SPARE	20 A	1			0	0	--	-- SPACE	24	--
	25	SPARE	20 A	1	0	0		--	--	SPACE	26	--
	27	SPARE	20 A	1		0	0	--	--	SPACE	28	--
	29	SPARE	20 A	1			0	0	--	-- SPACE	30	--
			TOTAL LOAD:		7951 VA	7816 VA	4258 VA					
			TOTAL AMPS:		31 A	30 A	15 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Lighting	20025 VA	100.00%	20025 VA	
				TOTAL CONN. LOAD: 20025 VA
				TOTAL DEMAND LOAD: 20025 VA
				TOTAL CONN. CURRENT: 24 A
				TOTAL DEMAND CURRENT: 24 A

NEW PANEL: MP

LOCATION: ELECTRICAL 109 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22KAIC
SUPPLY FROM: T2 | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 400 A
ENCLOSURE: NEMA 1 | **MCB RATING:** 400 A

NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES
	1	CU-2	60 A	2	1560	2080		2	20 A	CU-1	2	
	3					1560	2080				4	
	5	EUH-1	20 A	2			4500	104	2	20 A AC-2	6	
	7				4500	104					8	
	9	EF-6	20 A	1		456	456	1	20 A	EF-1	10	
	11	EF-4	20 A	1			1176	180	1	20 A FP RM RECEPT.	12	
	13	RH1 2	20 A	1	1200	104		2	20 A	AC-1	14	
	15	RH1 4	20 A	1		1200	104				16	
	17	RH1 6	20 A	1			1200	1200	1	20 A RH1 1	18	
	19	RH2 1	20 A	1	1200	1200			1	20 A RH1 3	20	
	21	GAS WATER HEATER AND PUMP	20 A	1		576	1200		1	20 A RH1 5	22	
	23	CONTROL PANELS	20 A	1			240	1200	1	20 A RH1 7	24	
	25	EUH-1	60 A	2	4500	1200			1	20 A RH2 2	26	
	27					4500	4500		2	60 A EUH-2	28	
	29	MOTORIZED GATE	20 A	1			500	4500			30	
	31	FUTURE MOTORIZED GATE	20 A	1	500	540			1	20 A ACCESS CONTROL POWER	32	
	33					5776	360		1	20 A GARAGE DOOR	34	
1	35	LIFT STATION	60 A	3			5776	180	1	20 A GARAGE DOOR OPERATOR	36	
	37				5776	180			1	20 A GARAGE DOOR OPERATOR	38	
	39	SPARE	20 A	1		0	500		1	20 A BATTERY CHARGER	40	
1	41	SPARE	20 A	1			0	1800	1	20 A BLOCK HEATER	42	
1	43	SPARE	20 A	1	0	0			--	-- SPACE	44	--
	45	SPARE	20 A	1		0	0		--	-- SPACE	46	--
	47	SPARE	20 A	1			0	0	--	-- SPACE	48	--
	49	SPARE	20 A	1	0	0			--	-- SPACE	50	--
--	51	SPACE	--	--		0	0		--	-- SPACE	52	--
--	53	SPACE	--	--			0	0	--	-- SPACE	54	--
--	55	SPACE	--	--	0	0			--	-- SPACE	56	--
--	57	SPACE	--	--		0	0		--	-- SPACE	58	--
--	59	SPACE	--	--			0	0	--	-- SPACE	60	--
			TOTAL LOAD:		24644 VA	23268 VA	22556 VA					
			TOTAL AMPS:		206 A	195 A	188 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
HVAC	1 27808 VA	100.00%	27808 VA	1
Power	4560 VA	100.00%	4560 VA	**TOTAL CONN. LOAD:** 70468 VA
Water Heater	120 VA	100.00%	120 VA	**TOTAL DEMAND LOAD:** 70468 VA
				TOTAL CONN. CURRENT: 196 A
				TOTAL DEMAND CURRENT: 196 A

NEW PANEL: RP

LOCATION: ELECTRICAL 109 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22 KAIC
SUPPLY FROM: T1 | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 400 A
ENCLOSURE: NEMA 1 | **MCB RATING:** 400 A

NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES
	1	RACK	20 A	1	180	180		1	20 A	RACK RECEPT.	2	
	3	DATA ROOM RECEPT EQ1	20 A	1		720	720	1	20 A	DATA ROOM RECEPT EQ2	4	
	5	DATA ROOM RECEPT EQ3	20 A	1			720	720	1	20 A DATA ROOM RECEPT EQ4	6	
	7	DATA ROOM RECEPT EQ5	20 A	1	720	180			1	20 A DATA ROOM RECEPT	8	
	9	MEZZ. CO RECEPT @ DATA ROOM	20 A	1		360	720		1	20 A MEZZ. CO RECEPT N/E	10	
	11	M OFFICE RECEPT	20 A	1			900	540	1	20 A ELEC/JAN RECEPT	12	
	13	SUPER OFFICE	20 A	1	1260	720			1	20 A WS RECEPT	14	
	15	CORR PTR	20 A	1		1160	500		1	20 A REFRIGERATOR	16	GFI
	17	MICROWAVE	20 A	1			1200	500	1	20 A EWC	18	GFI
	19	BR CO W	20 A	1	360	360			1	20 A BR CO S	20	
	21	G OFFICE RECEPT	20 A	1		900	900		1	20 A OFFICE 105 RECEPT	22	
	23	ST 104 RECEPT	20 A	1			900	980	1	20 A PTR	24	
	25	ADMIN RECEPT S	20 A	1	720	720			1	20 A ADMIN RECEPT E	26	
	27	LOCKER RM RECEPT	20 A	1		900	720		1	20 A CONF RM RECEPT	28	
	29	CONF RM AV FB RECEPT	20 A	1			180	1080	1	20 A CORR 103 RECEPT	30	
	31	TC RECEPT	20 A	1	1080	1800			1	20 A VEND 1	32	GFI
GFI	33	VEND 2	20 A	1		1800	1800		1	20 A ICE MACHINE	34	GFI
	35	MTG RM RECEPT W	20 A	1			720	720	1	20 A MTG RM RECEPT E	36	
	37	MTG RM AV RECEPT	20 A	1	540	1620			1	20 A GARAGE RECEPTACLE EAST	38	
	39	GARAGE RECETACLE NORTH	20 A	1		1080	1080		1	20 A GARAGE RECEPT SOUTH	40	
	41	SPARE	20 A	1			0	900	1	20 A ADMIN CO	42	
	43	SPARE	20 A	1	0	0			1	20 A SPARE	44	
	45	SPARE	20 A	1		0	0		1	20 A SPARE	46	
	47	SPARE	20 A	1			0	0	1	20 A SPARE	48	
	49	SPARE	20 A	1	0	0			1	20 A SPARE	50	
	51	SPARE	20 A	1		0	0		1	20 A SPARE	52	
	53	SPARE	20 A	1			0	0	1	20 A SPARE	54	
	55	SPARE	20 A	1	0	0			1	20 A SPARE	56	
	57	SPARE	20 A	1		0	0		1	20 A SPARE	58	
	59	SPARE	20 A	1			0	0	1	20 A SPARE	60	
			TOTAL LOAD:		10440 VA	13360 VA	10060 VA					
			TOTAL AMPS:		87 A	112 A	84 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Power	180 VA	100.00%	180 VA	
				TOTAL CONN. LOAD: 33860 VA
				TOTAL DEMAND LOAD: 22020 VA
				TOTAL CONN. CURRENT: 94 A
				TOTAL DEMAND CURRENT: 61 A

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV:	DATE	DESCRIPTION
1	3/2/2023	ADDENDUM 01

SANITATION BUILDING PROJECT GP1376
2801 REGENT AVE. N.E.
CANTON, OH 44705

ELECTRICAL PANELBOARD SCHEDULES

	DATE:
PERMIT	02/06/2023
BID	02/06/2023
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
RG	DC

JOB NO. 2020377.05

E-602

3/2/2023 1:04:10 PM

2020377.05

CITY OF CANTON
SANITATION BUILDING – GP 1376
PRE-BID MEETING
Monday, February 28, 2023 @ 10:00 AM

Meeting Minutes

- **Introduction**
  - Design Professionals; Russell Gayheart, Project Manager, Steve Heckman, Architect and Michael Hogston, Civil Engineer
  - Owner represented by:
    - Jim Benekos, City Engineer
    - Matt Bailey, Canton
    - AK Fullmer, Canton
    - Jim DiMarzio, Canton
    - Andy Roth, Director of Purchasing
    - Katie Wise, Assistant Director of Purchasing

- **Distribution of Bid Documents**
  - Drawings and Project Manual – Available for viewing at City of Canton - Vendor Registry.

- **Bid Due**
  - **Monday, March 13, 2023, at 2:00pm** local time (publicly opened). Bids due to the Attention of Purchasing/Bids located at 218 Cleveland Avenue SW, Canton, OH 44702
  - **Bids are due at the 4th floor. Bids will be opened on the 6th floor @ 2pm**

- **Proposals**
  - Comply with City of Canton - Front End documents for Bid Submission Requirements.

- **Scope of Work & Bid Packages**
  - Bid Package No. A – Sanitation Building – A/E Estimate (including allowances): **$8,325,346**

- **Scope Review**
  - Unit Prices and Bidders Sheet are included with the BID form.
  - NOI has been approved.
  - Plans have been submitted for plan approval to City of Canton - Building Department
  - Construction testing – by Owner-engaged testing agency – GPD Group

- **Contractor Questions/Comments**
  - All questions/comments prior to the bid due date are to be directed to City of Canton and Russell Gayheart.
  - No questions received after 2:00 pm on Monday, March 6, 2023, will be answered.
  - Written/email questions only. (email: purchasing@cantonohio.gov and rgayheart@gpdgroup.com)

- **Addenda**
  - No addendum will be issued within 72 hours (excluding Saturdays, Sundays, and legal holidays) immediately preceding the bid due date.
  - If an addendum is issued, it will be issued to City of Canton – Vendor Registry.

- **Project Schedule**
  Base Bid Package –Sanitation Building
  Anticipated Starting Date: June 15, 2023
  Substantial Completion Date: September 15, 2024
  Contract Closeout Date: October 15, 2024

- **Owner Considerations:**
  - Prevailing Wage and PLA is required for this project. The City of Canton has a Prevailing Wage Coordinator: Cheryl Southwell

- **Clarification:**

  - All existing site accessories; i.e. dumpsters, bleachers, vehicles, etc. near the project site will be removed/relocated by the City prior to construction commencement.

  - The City noted that the site for the Sanitation Building is over an aquifer and that no large storage tanks are permitted on site which includes fuel. Fuel shall be limited to 5 gallon (or smaller) for diesel fuel and storage tanks.

- **Questions/Answers from Pre-Bid Meeting**
  - Do you have the AEP contact information?
    RESPONSE: Yes. Michael Burnell. mrburnell@aep.com
    Order Number: 074861234
    Account Number: 07222053709

  - Do you know what the existing salt dome foundation depth is?
    RESPONSE: See response in Addendum #1.

  - What is the total SF of building?
    RESPONSE: 35,900

  - Where is the Access Control and monitoring shown on the drawings? Is there information for the gate power?
    RESPONSE: T-102 and TSU shows the access control for man-doors and gate information. Door Hardware specification also shows the access control hardware.

  - Could you please clarify the plan detail on TSU? This is inconsistent with the sheet keynotes. Which is correct?
    RESPONSE: Sheet Keynote is correct. (2) 4" Conduits are required.

  - Where is the electrical information for the Pump Station?
    RESPONSE: This is required to be a complete system (including electrical). The Electrical requirements are shown on C-133.

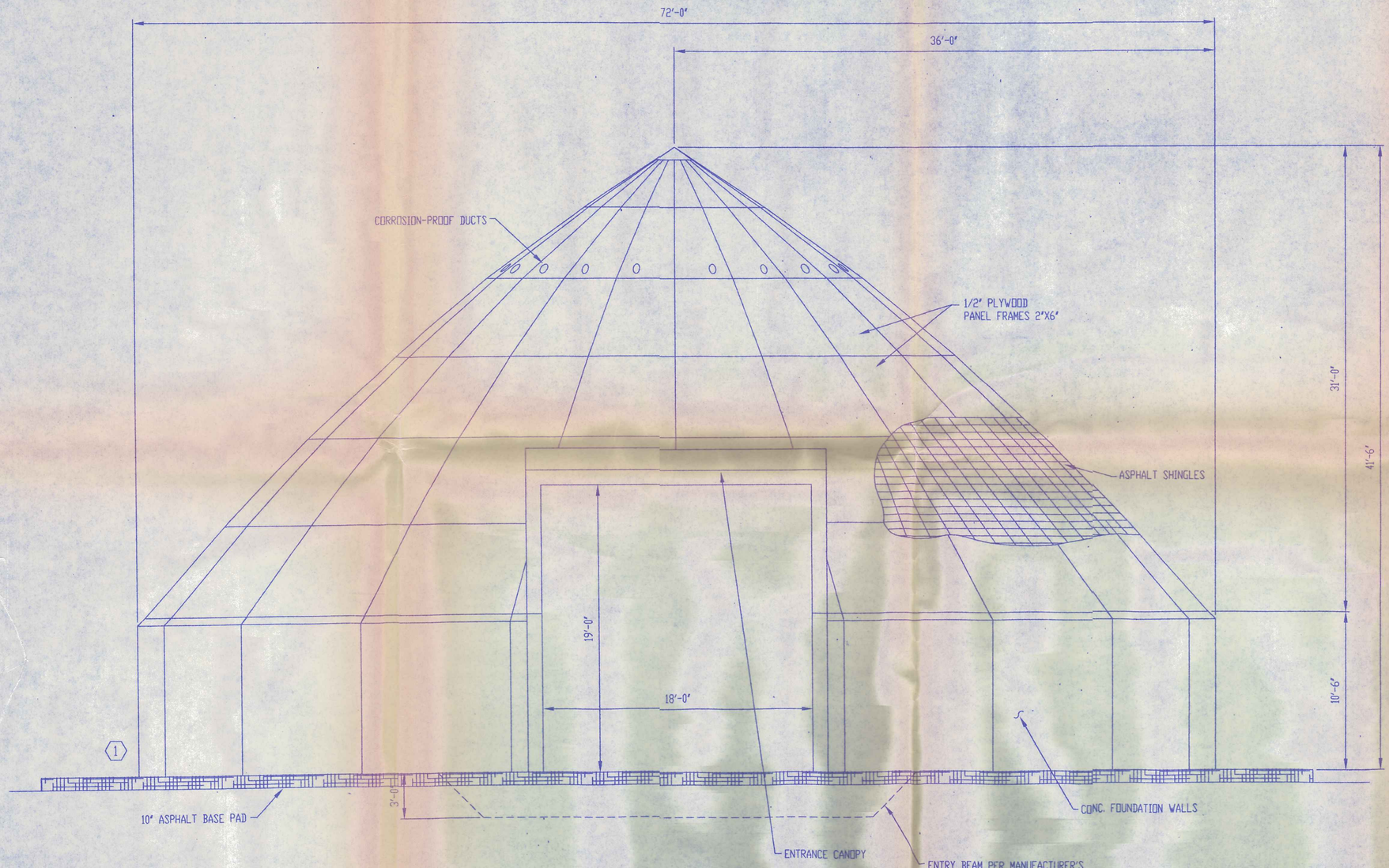
  - Who pays for the Permit Fees?
    RESPONSE: City of Canton will waive city building department fees. Permits are still required but the fee is waived. All City inspections shall be coordinated by the contractor.

The Sanitary permit fee (Owned by the County) has been paid by the City of Canton already. The permit will need to be signed by the licensed drainlayer and scheduled 48 hours in advance, before installation of the sewer may commence. Inspections shall be coordinated by the contractor.

END OF MEETING MINUTES

SANITATION BUILDING - PRE-BID 01/28/2023

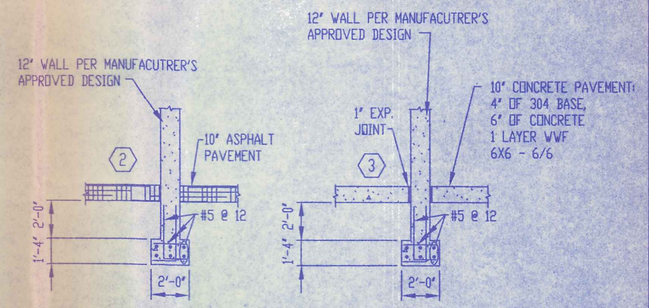
JIM BENEROF	CANTON		
RUSSELL GARTHEART	GPD GROUP		
Bob Slaga	GPD Group		
Stan Heckman	GPD GROUP		
Michael Hagston	GPD Group		
CHAD DAVIDSON	CANTON		
Michael Miller	Action Contractors	mmiller@actioncontractor.com	
BILL GROH	ABBOTT ELECTRIC	BILLG@ABBOTTELECTRIC.COM	
Katie Wise	City of Canton	Kathryn.wise@cantonohio.gov	
Andy Roth	City of Canton	andrew.roth@cantonohio.gov	
Chris Hare	Wood Electric	HARE@WOODELECTRIC.NET	
Russ Thomas	Sales	rthomas@protechsecurity.com 330-433-2790	
ART MORRISON	Protech Security	ART@Protech Security.com 330-220-2700 X217	
DAVID SNYDER	DUNLOP & JOHNSTON	dsnyder@dunlopandjohnston.com 330.484.2229	
Steve Miller	Stanley Miller Const	sarah.miller@smillerconst.com	
J.R. RINALDI	City	JR.RINALDI@CANTONOH.GOV	
AK Fullmer	city	Adam.Fullmer@cantonohio.gov	
AARON BROWN	IBEW	ABROWN@IBEW540.ORG	
MATT BAILEY	City	matthew.bailey@cantonohio.gov	
JERRY DURIGO	ECOBEE	JDURIGO@EMNLU33.ORG	
Tom Schmidt	Comfort Systems USA	thomas.schmidt@comfortsystemsusa.com	
JIM DIMARZIO	CITY OF CANTON - SEWER	james.dimarzio@cantonohio.gov	
ERIC BINSLEY	MASSILLON CONST. & SUPPLY	ebinsley@usmcs.com	
Mike Haddle	Mike Coates Corp	m.haddle@mikecoatesconstruction.com	
Jeff Taylor	VendRick Construction	ESTIMATING@VENDRICKCONSTRUCTION.COM	
Melanie Kruger	Standard Plbg & Htg	mkruger@standardpandh.com	
Seth Morrison	Protech Security	seth@protechsecurity.com	
William Sherer II	Ironworkers 550	wm.sherer@iw550.org	



ELEVATION

FOUNDATION WALL OPTIONS

1. RING WALL ON TOP OF FLOATING ASPHALT SLAB.
2. CONCRETE FOOTERS FOR RING WALL WITH ASPHALT PAVEMENT.
3. CONCRETE FOOTERS FOR RING WALL WITH CONCRETE PAVEMENT.



NOTE: 10" ASPHALT PAVEMENT TO CONSIST OF
6" OF 304 AGGREGATE BASE, 4" OF 404 ASPHALT SURFACE

2 OF 2

NO.	REVISION DATA	DATE	BY	APP'D

FLOYD BROWNE ASSOCIATES, INC.
CONSULTING ENGINEER
MARION, OHIO

DATE AUGUST 1993	JOB NO. 3055.12	DESIGN DVS	CHECKED JWK
SCALE 1/4" = 1'-0"	DWG. NO. 93364	DRAWN EEM	APPROVED EED
	CAD NO. SA001		

CITY OF CANTON, OHIO

SALT STORAGE BUILDING

SECTIONS