WDC GROUP

- *Facility Planning & Design*
- *Cost Estimating & Feasibility Studies*
- *Site Analysis & Acquisition*
- *Construction Management*
- *Facility Management*

ADDENDUM 7

July 1, 2026

ADDENDUM NUMBER 7 to CONTRACT DOCUMENTS for

A NEW PUBLIC WORK FACILITY
810 Northwoods Blvd
Vandalia, Ohio 45377

Documents prepared by WDC Group LLC, Springfield, Ohio, dated May 18, 2025

PART I - TO ALL CONTRACTORS:

A. This Addendum is part of the contract documents. Changes shall be taken into account in preparing the bid. Contractors shall verify this by indicating receipt of addendum in their bids.

PART II - INTENT AND SCOPE:

A. REMINDER: Bids shall be enclosed in a sealed envelope addressed to the City of Vandalia, 333 James E. Bohanan Memorial Drive, Vandalia, Ohio 45377, and plainly marked on the outside "NEW PUBLIC WORKS FACILITY." Bids will be received until 11:00 AM, local time July 8, 2026, at the Development and Engineering Services, 333 James E. Bohanan Memorial Drive and immediately after the deadline the bids will be opened and publicly read aloud in the Council Chambers at 333 James E. Bohanan Memorial Drive (Municipal Building), Vandalia, Ohio 45377.

B. ADD: Add the following to the known planholders list
1. 1A Bidder: Setterlin Building Company, 560 Harmon Ave., Columbus, Ohio 43223, Marc Graf 614-271-5033 m.graf@setterlin.com
2. Rob Heeter; rob@heeterplumbing.com

C. CLARIFICATION: The sizing and selection of the lubrication system and vendor shall be approved by the Owner. The vendor provided equipment items and the sizing of items and piping will be deferred to the vendor to coordinate based on the intended use, as they are not engineered systems by the engineer of record for this project.

D. CLARIFICATION: For the gate on the south side of the project site, voluntary alternates are permitted provided the proposed gate complies with all project specifications, is a manual sliding gate, and maintains the required clear opening. The gate shall be installed entirely within

23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
(fax) 325-9804

the property limits. No gate posts shall be located within the roadway or asphalt pavement; all posts shall be installed outside the paved surface.

E. CLARIFICATION: "EC" as listed in any drawing identifies the "16A - Electrical" bid package.

F. CLARIFICATION: No additional permit is required by 1A Contractor for the trench drains. The trench drains are shown in the drawings submitted by the 15A - Plumbing contractor for the plumbing permit.

G. CLARFICIATION: Per Sheet E3.1, fuel island equipment is required to be provided in 120/208 voltage.

H. CLARIFICATION: Overhead Doors 25 and 27 are equipped with operators, remote controls, and push-button controls.

I. CLARIFICATION: Undercut to be required in the Base Bid shall be per recommendations in Section 00900 – Geotechnical Report and verified by the owner's geotechnical company.

J. CLARIFICATION: The fire alarm system is included in the sprinkler contractor's scope of work in the 1A - GW&L Bid Package.

K. CLARIFICATION: The Owner has provided the following list of vendors and contact information:
   1. Possible internet provider:
      a. Metronet
      b. Spectrum
   2. Electricity Provider: AES
   3. Natural Gas Provider: CenterPoint Energy
   4. Jib Crane: Mark Gibson, Crane-Tec, Cell: 513-885-1368
   5. Truck Lift
      a. Indiana Automotive Equipment, Phone number: 317-326-5550
      b. SLE Technologies, Josh Fryman, Cell: 419-890-5826
   6. Fuel Management System: Fuel Master, Dan Goldberg, Cell: 260-438-7319
   7. Vendor for piping and for automotive fluids equipment:
      a. SLE Technologies
      b. Indiana Automotive

PART III - SPECIFICATIONS

A. REPLACE: Section 00400 - Bid Form. Use the attached Section 00400 in lieu of the Section previously provided.

B. CLARIFICATION: Section 00400 - Bid Forms.
   1. Bidders are to provide the unit costs as listed on the Bid Form.
   2. Bidders may include voluntary alternates separately on their company letterhead – using the related specification section or bid package number in the bid documents.

C. REPLACE: Section 00700 – Contract, Exhibit A. Use the attached Exhibit A in lieu of the Exhibit previously provided.

D. CLARIFICATION: Section 00800 – Supplemental General Conditions. The precedence of Contract Documents and information on potential conflicts in the documents is listed in Section 00800 - Supplemental General Conditions.

E. CHANGE: Section 00800 - Supplemental General Condition. Add "ARTICLE 10 – CHANGES IN THE WORK 10.1.1 Owner and Contractor agree to the process for changes to the work as described in Section 01250 – Change Order Procedures."

F. ADD: Section 00850 - Prevailing Wage. Add the following attached prevailing wage updates to the project manual:
   1. Bricklayer Local 23 (Dayton Tile Mechanic)
   2. Painter Local 249
   3. Painter Local 249 Drywall
   4. Painter Local 249 HevHwy
   5. Roofer Local 75

G. CLARIFICATION: Section 00850 - Prevailing Wage Rates. There is no heavy highway work for this project.

H. REPLACE: Section 01210 - Allowances. Use the attached Section 01210 in lieu of the previously provided section.

I. CLARIFICATION: Section 01230 – Alternates. The interior liner panel shown on wall sections in the drawings will be eliminated if the Alternate #1 Thermawall System is selected.

J. CLARIFICATION: Section 02829 – Electric Gate Operators. A detection loop is required by specification for the gate operators. Lasers can be submitted as a separate voluntary alternate for consideration by the Owner.

K. CLARIFICATION: Section 03300 - Cast-In-Place Concrete.
   1. All concrete floors are to be sealed with the product listed in this specification section. Surface material for Mezzanine floor coating was provided in Addendum #4. See Part II, C, 6 for

information on specified concrete sealer for all other sealed concrete floors.

2. Cold Storage, Material Storage, Large Vehicle Storage, Equipment Storage, Service Bay, and Wash Bay are to be trowel finished per standards in Section 03300. Exterior pads exposed to weather outside exterior doors and sidewalks are to be broom finished per the concrete placement standards listed in Section 03300.

L. CHANGE: Section 08360 – Sectional Overhead Doors. Part I, B, 1: Replace "Haas Model #716 series" with "Haas 2032 Series or Clopay 3722 Series"

M. CLARIFICATION: Section 08360 - Sectional Overhead Doors.

1. Additional locks are not required on doors. The motor operators include integral solenoid brakes that function as locks when the doors are closed.
2. Vision windows are not required for any of the overhead doors.
3. Doors and Motor Operators in the Wash Bay require protection per NEMA 4 requirements as shown on the E sheets.
4. All doors shall be designed to meet a minimum 100,000-cycle operation requirement and include a warranty for 3 years or 20,000 cycles.

N. CLARIFICATION: Section 16170 - Grounding and Bonding. Delete Part I, C, 4. (See grounding information on E drawing sheets.) Delete Part III, C, 2. (No lightning protection is required.)

PART IV - DRAWINGS

A. REPLACE:. Use the attached Sheets in lieu of the sheet previously provided for the following:

1. Sheet C0 – Cover Sheet
2. Sheet C2 – Dimensioning Plan
3. Sheet C3 – Utility Plan
4. Sheet C4 – Grading Plan
5. Sheet C5 – Pavement Elevation Plan
6. Sheet C6 – Wash Out Bay Detail
7. Sheet A2 - Exterior Elevations
8. Sheet A3.3 – Wall Sections
9. Sheet A3.5 – Wall Sections
10. Sheet A8.1 – Door Schedules & Details
11. Sheet A8.2 – Door, Window and Room Finish Schedules
12. Sheet A10 – Salt Storage Structure. Exterior Elevations.
13. Sheet FP1 – Fire Protection
14. Sheet M1.1 – Enlarged Mechanical Plan ‘A’

15. Sheet M1.4 – Enlarged Mechanical Plan ‘D’
16. Sheet M2.0 – Mechanical Schedules
17. Sheet M4.0 – Mechanical Specifications
18. Sheet E1.1 – Lighting Plan ‘A’
19. Sheet E1.3 – Lighting Plan ‘C’
20. Sheet E2.1 – Power Plan ‘A’
21. Sheet E2.3 – Power Plan ‘C’
22. Sheet E2.4 – Power Plan ‘D’
23. Sheet E3.1 – Electrical Panels & Details
24. Sheet E3.2 - Electrical Specifications
25. Sheet E4.1 – Data Floor Plan
26. Sheet E4.5 – Security System Floor Plan

B. CLARIFICATION: Sheet A14 - Cold Storage Structure, Floor, Reflected Ceiling, and Saw Cut Plans. Per Note 7- Catwalk s footings and foundations are to be included in the design by the manufacturer and included int eh provided shop drawings required by the plans and specifications.

C. CLARIFICATION: Sheet FP1 – Fire Protection
1. All sprinkler piping and heads in the Wash Bay Room #136 to be galvanized and water resistant finishes.
2. The City of Vandalia uses 4" Storz Fire Department connections. Correct all drawing notes to this statement in all places throughout the contract documents. The reference for "Springfield Threads" for Fire Department connections is to be replaced with “4” Storz connection”..
3. See Sheet P3.1 for water services and sprinkler service.

D. CLARIFICATION: Sheet M2.0 - Mechanical Schedules. Internally lined supply ductwork is required. All ductwork visible from inside room 121 is to be fabricated out of metal and painted.

E. CLARIFICATION: Sheet E3.1 Electrical Panels & Details, The gas detection has been revised and clarified on the updated Sheet E3.1. Please refer to the revised drawing for the correct circuit routing and fixture connections.

F. CLARFICIATION: Per Sheet E3.1, all power provided for fuel island is 120/208 volt. Equipment provided must be compatible with those voltages.

G. CHANGE: Sheet E4.3 - Data Floor Plan. Coded Note #3 shall be the responsibility of the 1A Bid Package and will include one sheet of Fire Rated plywood to be installed and painted at each location marked with the coded note. Information can be found on sheet E2.4.

H. CLARIFICATION: See attached Sheet C5 with marked up notations, the record plan for the Shoppes at Northwoods, and the Vandalia utilities plan showing current gas line location and proposed work for gas service to the building to be installed by Centerpoint.

END OF ADDENDUM 7

SECTION 00400- BID FORMS

NAME OF PROJECT: **A NEW PUBLIC WORK FACILITY FOR THE CITY OF VANDALIA**
810 Northwoods Blvd
Vandalia, Ohio 45377

ARCHITECT: WDC GROUP LLC
23 South Center Street
Springfield, Ohio 45502

OWNER: **CITY OF VANDALIA**
810 Northwoods Blvd
Vandalia, Ohio 45377

BIDDER: _____ **BID PKG #(s):**_____
(State full name of organization submitting Proposal) (i.e. 1A, 2A, 16A, etc)

MAILING ADDRESS: _____
PHONE (office):_____ **PHONE (mobile):**_____
CONTACT: _____ **TITLE:** _____
EMAIL: _____

NOTE: All applicable portions (except those marked optional) must be filled in for this Proposal to be accepted. Blanks in the Proposal must be properly filled in and the phraseology of the Proposal must not be changed. Additions, qualifications or limitations must not be made to the item mentioned therein and any unauthorized conditions, limitations or provisions attached to a Proposal will be liable to render it informal and may cause its rejection. The right is reserved to waive technical defects as the interest of Owner may require.

Each Contractor is to submit only one (1) "Form of Proposal".

A. OPENING COVENANT

Having carefully examined the Contract Documents, including Addendum (list all Addendum issued):

ADDENDUM# _____	DATED: _____	PAGES: _____
ADDENDUM# _____	DATED: _____	PAGES: _____
ADDENDUM# _____	DATED: _____	PAGES: _____
ADDENDUM# _____	DATED: _____	PAGES: _____
ADDENDUM# _____	DATED: _____	PAGES: _____
ADDENDUM# _____	DATED: _____	PAGES: _____
ADDENDUM# _____	DATED: _____	PAGES: _____
ADDENDUM# _____	DATED: _____	PAGES: _____
ADDENDUM# _____	DATED: _____	PAGES: _____
ADDENDUM# _____	DATED: _____	PAGES: _____

The Undersigned hereby agrees to furnish all labor and materials required to complete the work included for the Base Bid and Alternates listed, for the prices stated hereafter. These prices cover all expenses incurred in performing the work in strict accordance with the Drawings; the Project Manual which contains the Bidding Requirements, Contract Forms, Conditions of the Contract, and Specifications, and Addenda, prepared by WDC Group LLC.
The Undersigned hereby agrees:

1. To commence and complete the work within the time stipulated in the Project Schedule.
2. To accept all provisions of the Project Manual, Drawings and Addenda.

This form shall be included with the Bid envelope or an appropriate substitute listing information required in the ORC.

B. **BID GUARANTY AND CONTRACT BOND** (Section 153.571 Ohio Revised Code)
KNOW ALL MEN THESE PRESENTS, that we, the undersigned

_____
(Name and Address)
as Principal and_____

_____
(Name of Surety)
as Surety, are hereby held and firmly bound unto the _____, (Owner) hereinafter called the Obligee, in the penal sum of the dollar amount of the bid submitted by the named Principal to the Obligee on _____to undertake the project known as:_____
The penal sum referred to herein shall be the dollar amount of the Principal's bid to the Obligee, incorporating any additive or deductive alternate proposals made by the Principal on the date referred to above to the Obligee. In no case shall the penal sum exceed the amount of_____DOLLARS ($_____).
(If the above line is left blank, the penal sum will be the full amount of the Principal's bid, including alternates. Alternatively, if completed, the amount stated must not be less than the full amount of the bid, including alternates, in dollars and cents. A percentage is not acceptable.) For the payment of the penal sum well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that whereas the above named Principal has submitted a bid on the above referred project;

NOW, THEREFORE, if the Obligee accepts the bid of the Principal and the Principal fails to enter into a proper contract in accordance with the bid, plans, details, and specifications; and in the event the Principal pays to the Obligee the difference not to exceed ten percent of the penalty hereof between the amount specified in the bid and such larger amount for which the Obligee may in good faith contract with the next lowest bidder to perform the work covered by the bid; or in the event the Obligee does not award the contract to the next lowest bidder resubmits the project for bidding, the Principal will pay the Obligee the difference not to exceed ten percent of the penalty hereof between the amount specified in the bid, or the costs, in connection with the resubmission, of printing new contract documents, required advertising and printing and mailing notices to prospective bidders, whichever is less, then this obligation shall be void, otherwise to remain in full force and effect.

IF THE OBLIGEE accepts the bid of the Principal, and the Principal within ten days after awarding the contract, enters into a proper contract in accordance with the bid, plans, details, and specifications; which said contract is made a part of this bond the same as though set forth herein, and

IT THE SAID Principal shall well and faithfully perform each and every condition of such contract; and indemnify the Obligee against all damage suffered by failure to perform such contract according to the provisions thereof and in accordance with the plans, details and specifications therefore; and shall pay all lawful claims of subcontractors, materialmen, and laborers, for labor performed and materials furnished in the carrying forward, performing, or completing of said contract; we agreeing and assenting that this undertaking shall be for the benefit of any materialman or laborer having a just claim, as well as for the Obligee herein; then this obligation shall be void; otherwise the same shall remain in full force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

THE SAID Surety hereby stipulates and agrees that no modifications, omissions, or additions, in or to the terms of said contract or in or to the plans and specifications therefore shall in any wise affect the obligations of said such Surety on this bond, and it does hereby waive notice of any such modifications, omissions or additions to the terms of the contract or to work or to the specifications.

SIGNED AND SEALED This ____ day of _____ 2026.

PRINCIPAL:

_____

BY: _____

TITLE: _____

SURETY: _____

_____

BY: _____

SURETY COMPANY ADDRESS:

_____
Street

_____
City State Zip

SURETY AGENT'S ADDRESS:

_____
Agency Name

_____
Street

_____
City State Zip

C. **Combination Bids, if provided should list the nomenclature of bid packages listed herein. For example a Bidder may wish to bid a combination of 1A and 2A, and if so, then a statement should be attached to this form that states the combination bid included work for Bid Packages 1A and 2A. Alternates for each package should be addressed in the separate attached form as well.**

D. **BID SCHEDULE:** Bidders are cautioned that the following information should be fully completed including Base Bids and Alternates for the Bid Packages for which the Contractor wishes to be considered. Failure to do so may result in disqualification of the Bidder's Bid at the Owner's discretion.

DESCRIPTION	TOTAL OF ALL LABOR & MATERIALS FOR THE SUM OF: (Write in words and figures)
1A – GENERAL WORK & LABOR (includes 8A – Overhead Door, 2B – Fuel Island Canopy and Equipment, 15C – Fire Sprinkler/Fire Alarm)	
Bid Package 1A General Work & Labor Base Bid:	BASE BID_____($)
Bid Package 1A Unit Price Labor	Hourly rates to be used for all change orders and owner discretion allowances: General Labor per hour _____($) Skilled Carpenter per hour _____($) General Sprinkler Labor per hour _____($) Skilled Sprinkler per hour _____($) General Fire Alarm Labor per hour _____($) Skilled Fire Alarm per hour _____($)
Bid Package 1A Unit Price Dumpsters	Each dumpster_____($)
Bid Package 1A Unit Price Excavate, Haul, Fill, & Compact for undercut of soils	Excavate and haul material to location designated by the Owner, provide and install granular fill and compact. _____($)/CY
Bid Package 1A Unit Price Material (4,000 psi) and Labor for concrete placement for footings and flatwork per cubic yard	_____($)/CY

DESCRIPTION	TOTAL OF ALL LABOR & MATERIALS FOR THE SUM OF: (Write in words and figures)
Bid Package 1A Unit Price Material (4,000 psi) and Labor for concrete placement for foundations and flatwork per cubic yard	_____($)/CY
Bid Package 1A Allowances	**Bidder acknowledges the following Allowances are included in this Base Bid:** ***Allowance #1****: $200,000 to be used by the Owner at their discretion.* ***Allowance #2****: 200 hours of General Labor, 200 hours of Skilled Carpenter, 50 hours of Sprinkler General Labor, 50 hours of Sprinkler Skilled Labor, 50 Hours of General Fire Alarm Labor, 50 Hours of Skilled Fire Alarm Labor to be used at Owner discretion during project based on the labor unit prices above.* ***Allowance #3****: $10,000 for Interior Signage.* ***Allowance #5****: $30,000 for dumpsters for use by the Owner and all contractors during project based on the dumpster unit price above.* ***Allowance No. 9:*** *$150,000 for unsuitable soil, undercut, stabilization, and/or groundwater to be used at the discretion of the Owner.* ***Allowance No. 12****: $70,000 for landscaping to be used at the discretion of the Owner.*
This Bid includes the following related to soil, remediation recommended in the Geotechnical Report:	_____ CY of undercut of soils for footings _____ CY of undercut for foundations _____CY of undercut for slabs on grade.
Bid Package 1A Alternate #1 – Thermawall	ADD TO / DEDUCT FROM BASE BID _____($)
Bid Package 1A Alternate #2 – Provide and Install Flush Mount Vertical Lift	ADD TO / DEDUCT FROM BASE BID _____($)
Bid Package 1A Alternate #3 – Provide and Install Jib Crane	ADD TO / DEDUCT FROM BASE BID _____($)
Bid Package 1A VOLUNTARY Alternate– for use of Geopiers per Geotechnical Report Recommendations	ADD TO / DEDUCT FROM BASE BID _____($)

DESCRIPTION	TOTAL OF ALL LABOR & MATERIALS FOR THE SUM OF: (Write in words and figures)
2A – SITE WORK	
Bid Package 2A Site Work Base Bid:	BASE BID_____($)
Bid Package 2A Unit Price Labor	Hourly rates to be used for all change orders and owner discretion allowances: General Site Work Labor per hour _____($) Skilled Site Work Labor per hour _____($)
Bid Package 2A Allowances	**Bidder acknowledges the following Allowances are included in this Base Bid:** ***Allowance #6****: $100,000 to be used by the Owner at their discretion.* ***Allowance No. 10:*** *$200,000 for unsuitable soil, undercut, stabilization, and/or groundwater to be used at the discretion of the Owner.*
This Bid includes the following related to soil, remediation per Geotechnical Report:	_____ CY of undercut of soils for footings _____ CY of undercut for foundations _____CY of undercut for slabs on grade.
Bid Package 2A Alternate #4 – Barbed Wire on top of all fence and gates	ADD TO / DEDUCT FROM BASE BID _____($)
Bid Package 2A VOLUNTARY Alternate– for use of Geopiers per Geotechnical Report Recommendations	ADD TO / DEDUCT FROM BASE BID _____($)

DESCRIPTION	TOTAL OF ALL LABOR & MATERIALS FOR THE SUM OF: (Write in words and figures)
15A – PLUMBING / 15B - MECHANICAL	
Bid Package 15A Plumbing Base Bid:	BASE BID_____($)
Bid Package 15A Unit Price Labor	Hourly rates to be used for all change orders and owner discretion allowances: General Plumbing Labor per hour _____($) Skilled Plumbing Labor per hour _____($) General Mechanical Labor per hour _____($) Skilled Mechanical Labor per hour _____($)
Bid Package 15A Allowances	**Bidder acknowledges that the following Allowances are included in this Base Bid:** *Allowance #7: 150 hours of General Plumbing Labor, 150 hours of Skilled Plumber Labor, 150 hours of General Mechanical Labor, 150 hours of Skilled Mechanical Labor to be used at Owner discretion during project based on the labor unit prices above.*
Bid Package 15A/15B Alternate #2 – Connections to install Flush Mount Vertical Lift	ADD TO / DEDUCT FROM BASE BID _____($)
Bid Package 15A/15B Alternate #3 – Connections to install Jib Crane	ADD TO / DEDUCT FROM BASE BID _____($)

DESCRIPTION	TOTAL OF ALL LABOR & MATERIALS FOR THE SUM OF: (Write in words and figures)
16A – ELECTRICAL	
Bid Package 16A Electrical Base Bid:	BASE BID_____($)
Bid Package 16A Unit Price Labor	Hourly rates to be used for all change orders and owner discretion allowances: General Electrical Labor per hour _____($) Skilled Electrical Labor per hour _____($)
Bid Package 16A Allowances	**Bidder acknowledges the following Allowances are included in this Base Bid:** ***Allowance #8****: 150 hours of General Electrical Labor and 150 hours of Skilled Electrician Labor to be used at Owner discretion during project based on the labor unit prices above.* ***Allowance No. 11****: $60,000 for wiring, equipment connections, and startup/commissioning of the fuel island equipment to be used at the discretion of the Owner.*
Bid Package 16A Alternate #2 – Connections to install Flush Mount Vertical Lift	ADD TO / DEDUCT FROM BASE BID _____($)
Bid Package 16A Alternate #3 – Connections to install Jib Crane	ADD TO / DEDUCT FROM BASE BID _____($)

E. ACCEPTANCE

BIDDER:

SIGNED BY

ADDRESS: _____

Type of Business Entity:

_____
(Corporate, Partnership, Individual, Etc.)

List all individuals with financial interest in the Business Entity:

_____

President of Business Entity_____

Secretary of Business Entity_____

The Business Entity, organized under laws of the state of_____, submits this bid dated the _____day of _____, 2026.

I, the undersigned do attest that I have read all parts of the bid documents and do attest that our company has had all questions on the scope of the project and contract language answered by the Owner or Architect prior to submitting this bid. And that our company intends to execute a contract, perform work, and complete the project by all terms and conditions of the bid and contract documents we have reviewed during the bidding process, without any exceptions. I attest that our company is not debarred from public construction contracts in the State of Ohio.

TITLE OF SIGNER: _____

SIGNATURE_____

NON-COLLUSION BID AFFIDAVIT

STATE OF _____)

SS”

COUNTY OF _____)

_____, being first duly sworn, deposes.

And says that he/she is _____for

_____the party making the
(NAME OF COMPANY)
foregoing proposal or bid, that such proposal or bid is genuine and not collusive or sham; that said bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any bidder or person, to put in a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference, with any person, to fix the bid price of affiant or of any other bidder, or to fix any overhead, profit or cost element of said bid price, or of that of any other bidder, or to secure any advantage against or any person interested in the proposed contract: and that all statements in said proposal or bid are true.

_____
AFFIANT

Sworn to and subscribed before me, a Notary Public, on this

_____day of _____, 2026.

_____
NOTARY PUBLIC

My commission expires_____, _____.

BIDDER'S PERSONAL PROPERTY TAX STATEMENT
(See section 5719.042 O.R.C.)

STATE OF _____)
SS"
COUNTY OF _____)

I, _____, having been duly sworn, state that I am competent to testify to the following:

(COMPLETE APPLICABLE STATEMENT)

( ) On _____, I submitted a bid to the City of Vandalia to provide the City with _____. On said date, I owed no personal property tax to the City of Vandalia Taxing District, and, after checking the said District, I have personal knowledge that I have not been charged with having any delinquent personal property tax owed to said District.

OR

( ) On _____, I submitted a bid to City of Vandalia, to provide the District with _____. I presently am delinquent in the payment of personal property tax to the City of Vandalia Taxing District, and, after checking with said District, I have personal knowledge that my name appears upon the records of said District as delinquent in the payment of personal property tax as follows:

_____owed in delinquent taxes, and _____owed as penalties assessed against said delinquency. As part of the consideration for a contract to perform the above stated bid, I hereby agree that this form be incorporated into said contract to perform work, and further agree that proceeds from said contract shall be paid to City of Vandalia Taxing District in the amount of said delinquent tax and said assessed penalty prior to any payments being made to the bidder or other person under the contract.

_____ _____
DATE BIDDER

Sworn to and subscribed before me, a Notary Public, on this

_____day of_____, 20__.

_____
NOTARY PUBLIC

My commission expires _____, 20___.

END OF SECTION 00400

Exhibit A:

C0 Cover Sheet
Ls1.1 Life Safety Plan
Ls1.2 Life Safety Notes
Ls1.3 Life Safety Notes
Ls1.4 Hazardous Materials
G1.1 General Accessibility Information
G1.2 Life Safety Signage Plan
G1.3 Life Safety Signage Plan
G1.4 Life Safety Signage Plan
G1.5 Life Safety Signage Plan
C1 Existing Conditions Plan
C2 Dimensioning Plan
C3 Utility Plan
C4 Grading Plan
C5 Pavement Elevation Plan
C6 Wash Out Bay Detail
C7 General Notes and Details-001
C8 General Notes and Details-002
C9 General Notes and Details-003
C10 General Notes and Details-004
C11 General Notes and Details-005
C12 General Notes and Details-006
C13 General Notes and Details-007
C14 SWPPP Title Sheet
C15 Erosion Control Notes and Details-1
C16 Erosion Control Notes and Details-2
C17 Erosion Control Notes and Details-3
C18 SWPPP Erosion Control Plan
S0 General Structural Notes
S0.1 Special Inspections
S1.0 Overall Foundation Plan
S1.1 Partial Foundation Plan
S1.2 Partial Foundation Plan
S1.3 Partial Foundation Plan
S1.4 Partial Foundation Plan
S2.0 Foundation Details
S2.1 Details
S3.1 Salt Storage Foundation Plan
S4.1 Cold Storage Foundation Plan
S5.1 Material Storage Foundation Plan

Main Building
A1.1 Overall Floor Plan
A1.2 Floor Plan
A1.3 Floor Plan
A1.4 Floor Plan
A1.5 Floor Plan
A2 Exterior Elevations
A3.1 Building Sections
A3.2 Building Sections
A3.3 Wall Sections
A3.4 Wall Sections
A3.5 Wall Sections
A3.6 Wall Sections
A3.7 Sawcut Plan
A4.1 Reflected Ceiling Plan
A4.2 Reflected Ceiling Plan
A4.3 Reflected Ceiling Plan
A4.4 Reflected Ceiling Plan
A5 Stair Plans, Sections, & Details
A6.1 Enlarged Floor Plans & Interior Elevations
A6.2 Enlarged Floor Plans & Interior Elevations
A6.3 Enlarged Floor Plans & Interior Elevations
A7 Roof Plan & Details
A8.1 Door Schedules & Details
A8.2 Door, Window and Room Finish Schedules

Salt Storage
A9 Salt Storage Structure, Floor & Saw Cut Plans
A10 Salt Storage Structure, Exterior Elevations
A11 Salt Storage Structure, Building & Wall Sections
A12 Salt Storage Structure, Refl. Ceiling & Roof Plans

Cold Storage
A13 Cold Storage Structure, Floor, Refl. Ceiling & Saw Cut Plans
A14 Cold Storage Structure, Ext. Elevations & Catwalk Platform
A15 Cold Storage Structure, Building & Wall Sections
A16 Cold Storage Structure, Roof Plans & Details

Material Bins Canopies
A17 Material Stor Structure, Ext. Elev., Floor & Saw Cut Plans
A18 Material Storage Structure, Building & Wall Sections
A19 Material Storage Structure, Roof Plan & Details

Fuel Canopy Storage
A20 Fuel Canopy Storage Floor Plan

Fp1 Fire Protection
P1.0 Overall Plumbing Plan
P1.1 Enlarged Plumbing Plan ‘A’
P1.2 Enlarged Plumbing Plan ‘B’
P1.3 Enlarged Plumbing Plan ‘C’
P1.4 Enlarged Plumbing Plan ‘D’
P2.1 Enlarged Plumbing Plan
P3.1 Plumbing Schedules & Details
P3.2 Plumbing Details
P3.3 Plumbing Schematic
P4.1 Plumbing Specifications
M1.0 Overall Mechanical Plan
M1.1 Enlarged Mechanical Plan ‘A’
M1.2 Enlarged Mechanical Plan ‘B’
M1.3 Enlarged Mechanical Plan ‘C’
M1.4 Enlarged Mechanical Plan ‘D’
M2.0 Mechanical Schedules
M3.0 Mechanical Schedules & Details
M4.0 Mechanical Specifications
E1.1 Lighting Plan ‘A’

E1.2 Lighting Plan ‘B’
E1.3 Lighting Plan ‘C’
E1.4 Lighting Plan ‘D’
E2.1 Power Plan ‘A’
E2.2 Power Plan ‘B’
E2.3 Power Plan ‘C’
E2.4 Power Plan ‘D’
E3.1 Electrical Panels & Details
E3.2 Electrical Specifications
ES1.1 Electrical Site Plan
ES1.2 Enlarged Out Building Electrical Plans
E4.1 Data Floor Plan
E4.2 Data Floor Plan
E4.3 Data Floor Plan
E4.4 Camera Layout Floor Plan
E4.5 Security System Floor Plan

Prevailing Wage Rate
Skilled Crafts

Name of Union: Bricklayer Local 23 (Dayton Tile Mechanic)

Type of Rate: Commercial

Change #:	**Craft:**	**Effective Date:**	**Effective Date:**
LCN01-2026ib	Bricklayer	7/1/2026	7/1/2026

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Bricklayer Tile Marble Terrazzo Mechanics	$34.81		$10.07	$7.29	$0.68	$0.00	$0.00	$0.00	$0.00	$0.00	$52.85	$70.25
Terrazzo Worker	$30.98		$10.07	$7.29	$0.68	$0.00	$0.00	$0.00	$0.00	$0.00	$49.02	$64.51
Apprentice	BHR	Percent										
1st 6 Months	$20.89	$60.00	$10.07	$7.29	$0.68	$0.00	$0.00	$0.00	$0.00	$0.00	$38.93	$49.38
2nd 6 Months	$22.63	$65.00	$10.07	$7.29	$0.68	$0.00	$0.00	$0.00	$0.00	$0.00	$40.67	$51.98
3rd 6 Months	$24.37	$70.00	$10.07	$7.29	$0.68	$0.00	$0.00	$0.00	$0.00	$0.00	$42.41	$54.59
4th 6 Months	$26.11	$75.00	$10.07	$7.29	$0.68	$0.00	$0.00	$0.00	$0.00	$0.00	$44.15	$57.20
5th 6 months	$27.85	$80.00	$10.07	$7.29	$0.68	$0.00	$0.00	$0.00	$0.00	$0.00	$45.89	$59.82
6th 6 months	$29.59	$85.00	$10.07	$7.29	$0.68	$0.00	$0.00	$0.00	$0.00	$0.00	$47.63	$62.42
7th 6 months	$31.33	$90.00	$10.07	$7.29	$0.68	$0.00	$0.00	$0.00	$0.00	$0.00	$49.37	$65.03
8th 6 months	$33.07	$95.00	$10.07	$7.29	$0.68	$0.00	$0.00	$0.00	$0.00	$0.00	$51.11	$67.65

(*)Special Calculation Note :

Ratio :

5 Journeymen to 1 Apprentice
10 Journeymen to 2 Apprentice
15 Journeymen to 3 Apprentice
20 Journeymen to 4 Apprentice
25 Journeymen to 5 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Champaign, Clark, Clinton, Darke, Greene, Highland, Logan, Miami, Montgomery, Preble*, Shelby

Special Jurisdictional Note :

In Preble County the following townships are included: (Jackson, Jefferson, Monroe, Harrison, Twin and Washington)

Details :

**(Tile layers work)the laying, cutting or setting of all tile where used for floors, walls, ceilings, walks, promenade roofs, stair treads, stair risers, facings, hearths, fireplaces & decorative inserts together with any marble plinths, thresholds or window stools used in connection with any tile work. The building, shaping forming construction or repairing of all fireplace work, whether in connection with a mantel hearth facing or not, & the setting & preparing of all material such as cement, plaster, mortar, brickwork, iron work or other materials necessary for the proper, safe construction & completion of such work: except that a mantel made exclusively of brick, marble or stone shall be conceded to be bricklayers, marble setters or stonemasons' work respectively. **Marble, mosaic, venetian enamel & terrazzo. Cutting and assembling of mosaics. All rolling of terrazzo work. **Caulking of all expansion, perimeter & angle joints shall be the exclusive work of the tile mechanic. **Marble masons shall consist of carving, cutting & setting of all marble, slate (including blackboards) stone, albereen, carrara, sanionyx, vitrolite & similar opaque glass, scagliola, what ever thickness or dimension.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 249

Type of Rate: Commercial

Change #:	**Craft:**	**Effective Date:**	**Effective Date:**
LCN01-2026ib	Painter	6/24/2026	6/24/2026

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter	$30.35		$7.30	$7.14	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$45.12	$60.30
Apprentice	BHR	Percent										
30 Day Probationary	$15.18	$50.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$23.26	$30.85
1st Year	$19.73	$65.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$27.81	$37.67
2nd Year	$22.76	$75.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$30.84	$42.22
3rd Year	$25.80	$85.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$33.88	$46.78
4th Year	$27.32	$90.02	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$35.40	$49.06

(*)Special Calculation Note :

A) $1.50 an hour premium shall be added to any base pay for spraying Coal Tar Products.
B) $ .75 an hour premium shall be added to any base pay for Sandblasting, Water Blasting or Lead Abatement.
C) $ .90 an hour premium shall be added to any base pay for Drywall Finishing.
D) $3.94 an hour premium shall be added to any base pay for Elevated Tanks.
E) $ .95 an hour premium shall be added to any base pay for Steeplejack Work.
F) $.75 premium shall be added to any base pay for lead abatement.

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Clark, Darke, Greene, Miami, Montgomery, Preble

Special Jurisdictional Note :

Details :

Industrial work but not limited to: work done on industrial plants, repair garages, processing plants, storage tanks, warehouses, skeleton structures, bridges, whether new or old construction, office buildings in industrial sites and interior of shopping malls.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 249 Drywall

Type of Rate: Commercial

Change #:	**Craft:**	**Effective Date:**	**Effective Date:**
LCN01-2026ib	Painter	6/24/2026	6/24/2026

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter Drywall Finisher	$30.35		$7.30	$7.14	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$45.12	$60.30
Apprentice	BHR	Percent										
30 Day Probationary	$15.18	$50.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$23.26	$30.85
1st Year	$19.73	$65.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$27.81	$37.67
2nd Year	$22.76	$75.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$30.84	$42.22
3rd Year	$25.80	$85.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$33.88	$46.78
4th Year	$27.32	$90.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$35.40	$49.06

(*)Special Calculation Note :

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Clark, Darke, Greene, Miami, Montgomery, Preble

Special Jurisdictional Note :

Details :

Industrial work but not limited to: work done on industrial plants, repair garages, processing plants, storage tanks, warehouses, skeleton structures, bridges, whether new or old construction, office buildings in industrial sites and interior of shopping malls.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 249 HevHwy

Type of Rate: Commercial

Change #:	**Craft:**	**Effective Date:**	**Effective Date:**
LCN01-2026ib	Painter	6/24/2026	6/24/2026

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter Bridge Blaster - Class 1	$42.06		$7.30	$7.14	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$56.83	$77.86
Bridge Painter, Rigger, Containment Builder, Spot Blaster - Class 2	$39.06		$7.30	$7.14	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$53.83	$73.36
Equipment Operator/ Field Mechanic, Grit Reclamation, Paint Mixer, Traffic Control, Boat Person, Driver - Class 3	$37.06		$7.30	$7.14	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$51.83	$70.36
Concrete Sealing, Concrete Blasting/Power Washing/ Etc. - Class 4	$35.06		$7.30	$7.14	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$49.83	$67.36
Quality Control/Quality Assurance, Traffic safety, Competent Person - Class 5	$35.06		$7.30	$7.14	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$49.83	$67.36
Apprentice	BHR	Percent										
30 day Probationary	$21.03	$50.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$29.11	$39.63
1st Year	$27.34	$65.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$35.42	$49.09
2nd Year	$27.34	$65.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$35.42	$49.09
3rd Year	$31.55	$75.02	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$39.63	$55.41
4th Year	$35.75	$85.00	$7.30	$0.45	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$43.83	$61.70

(*)Special Calculation Note :

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Clark, Darke, Greene, Miami, Montgomery, Preble

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Roofer Local 75

Type of Rate: Commercial

Change #:	**Craft:**	**Effective Date:**	**Effective Date:**
LCN01-2026ib	Roofer	6/24/2026	6/24/2026

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Roofer	$31.95		$8.98	$8.98	$0.58	$0.00	$2.00	$0.00	$0.00	$0.00	$52.49	$68.47
Slate and Tile	$32.17		$8.98	$8.98	$0.58	$0.00	$2.00	$0.00	$0.00	$0.00	$52.71	$68.80
Apprentice	BHR	Percent										
Apprentice Probation 499 hrs	$21.73	$68.00	$2.50	$0.50	$0.58	$0.00	$2.00	$0.00	$0.00	$0.00	$27.31	$38.17
1st Term 1250 hrs	$21.73	$68.00	$8.58	$1.32	$0.58	$0.00	$2.00	$0.00	$0.00	$0.00	$34.21	$45.08
2nd Term 1250 hrs	$23.96	$75.00	$8.58	$2.20	$0.58	$0.00	$2.00	$0.00	$0.00	$0.00	$37.32	$49.30
3rd Term 1250 hrs	$25.56	$80.00	$8.58	$3.07	$0.58	$0.00	$2.00	$0.00	$0.00	$0.00	$39.79	$52.57
4th Term 1250 hrs	$28.75	$90.00	$8.58	$3.95	$0.58	$0.00	$2.00	$0.00	$0.00	$0.00	$43.86	$58.23
Pre-Apprentice	$25.24	$79.00	$5.00	$1.58	$0.58	$0.00	$2.00	$0.00	$0.00	$0.00	$34.40	$47.02

(*)Special Calculation Note :

Ratio :

3 Journeymen to 2 Apprentices
1 Pre-Apprentice to 2 Apprentices

Jurisdiction (* denotes special jurisdictional note) :

Allen, Auglaize, Clark, Clinton, Darke, Greene, Mercer, Miami, Montgomery, Preble, Shelby, Van Wert

Special Jurisdictional Note :

Details :

Pre-Apprentices can do all work of a Journeyman

SECTION 01210 - ALLOWANCES

PART I - GENERAL

A. RELATED DOCUMENTS: Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

B. SUMMARY: This Section specifies administrative and procedural requirements governing handling and processing allowances. Types of allowances required include the following:
   1. Lump sum allowances.

C. ALLOWANCES
   1. The allowances shall cover the cost to the contractor, less any applicable trade discount, of the materials and equipment, required by the allowance, delivered at the site and all applicable taxes.
   2. All Contractor costs for delivery and handling material on site, labor, installation costs, overhead and profit, and other expenses contemplated for the allowance included in the base Bid amount and not in the allowance included by the contractor on the Bid Form.
   3. Whenever the cost is more or less than the allowance, The Contract Sum shall be adjusted accordingly by change order, the amount of which will recognize changes, if any, in handling costs on the site, labor, installation costs, overhead, profit and other expenses.

D. SELECTION AND PURCHASE
   1. At the earliest feasible date after Contract award, advise the Architect of the date when the final selection and purchase of each product or system described by an allowance must be completed in order to avoid delay in performance of the Work.
      a. When requested by the Architect, obtain proposals for each allowance for use in making final selections; include recommendations that are relevant to performance of the Work.
      b. Purchase products and systems as selected by the Architect from the designated supplier.

PART II - PRODUCTS (Not Applicable)

PART III - EXECUTION

A. INSPECTION
   1. Inspect products covered by an allowance promptly upon delivery for damage or defects.

B. PREPARATION
   1. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related construction activities.

   2. **ALLOWANCE No. 1**: The 1A - GW&L Contractor shall include an allowance of $200,000.00 to use at the discretion of the Owner during the construction period of the project.

   3. **ALLOWANCE No. 2:** The 1A GW&L Contractor shall include in his proposal labor hours to work at the discretion of the Owner during the construction period of the project for each of the following trades:
      a. Two Hundred (200) hours for one general contractor laborer
      b. Two Hundred (200) hours for one skilled laborer
      c. Fifty (50) hours for one general sprinkler laborer
      d. Fifty (50) hours for one skilled sprinkler laborer

e. Fifty (50) hours for one general fire alarm laborer
f. Fifty (50) hours for one skilled fire alarm laborer

4. **ALLOWANCE No. 3**: The 1A – GW&L Contractor shall include an allowance of $10,000.00 for interior signage to use at the discretion of the Owner during the construction period of the project. Signage shown on Sheet G2 shall be included in this allowance.

5. **ALLOWANCE No. 4**: UNUSED

6. **ALLOWANCE No. 5**: The 1A GW&L Contractor shall include a dumpster allowance of $30,000 for use by the Contractor and Owner during construction. Each dumpster shall remain on site until filled at no additional cost to the Owner. A unit price (dumpster) shall be included for calculation of quantity used on the project until Substantial Completion.

7. **ALLOWANCE No. 6:** The 2A Site Contractor shall include in his proposal an allowance of $100,000.00 for use at the discretion of the Owner during the construction period of the project.

8. **ALLOWANCE No. 7:** The 15A – Plumbing / 15B - Mechanical Contractor shall include in his proposal labor hours to work at the discretion of the Owner during the construction period of the project for each of the following trades:
   a. One Hundred Fifty (150) hours for one general mechanical laborer
   b. One Hundred Fifty (150) hours for one skilled mechanical laborer
   c. One Hundred Fifty (150) hours for one general plumbing laborer
   d. One Hundred Fifty (150) hours for one skilled plumber laborer

9. **ALLOWANCE No. 8:** The 16A - Electrical Contractor shall include in his proposal labor hours to work at the discretion of the Owner during the construction period of the project for each of the following trades:
   a. One Hundred Fifty (150) hours for one general electrical laborer
   b. One Hundred Fifty (150) hours for one skilled electrician laborer

10. **ALLOWANCE No. 9:** The 1A - GW&L Contractor shall include an allowance of $150,000 for unsuitable soil, undercut, stabilization, and/or groundwater encountered beyond identification in the Geotechnical Report to be used at the discretion of the Owner.

11. **ALLOWANCE No. 10**: The 2A - Site Work Contractor shall include an allowance of $200,000 for unsuitable soil, undercut, stabilization, and/or groundwater encountered beyond identification in the Geotechnical Report to be used at the discretion of the Owner.

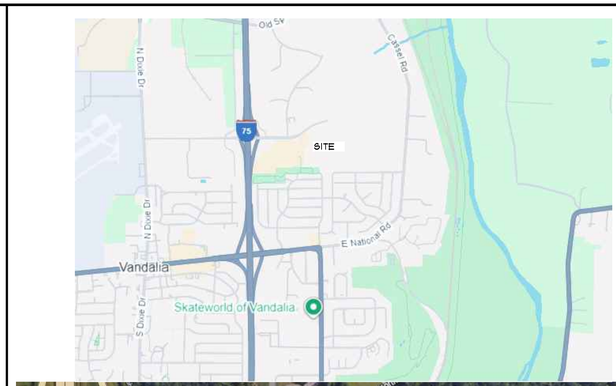
12. **ALLOWANCE No. 11**: 16A - Electrical Contractor shall include an allowance of $60,000 for wiring, equipment connections, and startup/commissioning of the fuel island equipment to be used at the discretion of the Owner.

13. **ALLOWANCE No. 12:** The 1A - GW&L Contractor shall include an allowance of $70,000 for landscaping to be used at the discretion of the Owner. Final grade and seeding to be in Base Bid by 2A – Contractor. Landscaping allowance is for any plantings or other work.

END OF SECTION 01210

A NEW
PUBLIC WORK FACILITY
FOR
THE CITY OF VANDALIA

810 NORTHWOODS BLVD, VANDALIA, OH 45377



LOCATION MAP

NOTICE:

THESE DOCUMENTS WERE PREPARED UNDER A LIMITED SERVICES AGREEMENT BETWEEN THE OWNER AND ARCHITECT AND ARE INTENDED TO ILLUSTRATE DETAILS TYPICALLY FOUND IN COMPLETE BIDDING AND CONSTRUCTION RELATED DOCUMENTS. THE INTENT OF THESE IS TO PROVIDE A DESCRIPTION OF THE PROJECT TO A LEVEL OF DETAIL NECESSARY TO IDENTIFY COMPLIANCE WITH THE APPLICABLE, LOCAL BUILDING CODE, DESIGN, DOCUMENTATION, AND COORDINATION OF THE WORK RELATED TO THE FOLLOWING ARE THE RESPONSIBILITY OF THE OWNER AND THE CONTRACTORS: SITE WORK AND PAVING, ELECTRICAL SYSTEMS, PLUMBING SYSTEMS, HVAC SYSTEMS, MATERIAL SELECTIONS AND DESIGNATIONS, AND COMPLIANCE WITH APPLICABLE ZONING AND PLAT REGULATIONS.

GENERAL NOTES:

1. ALL CONTRACTORS SHALL REVIEW ALL DRAWINGS. ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR A COMPLETE REVIEW. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT THIS SET OF DRAWINGS. ANY INCONSISTENCIES, CONTRADICTIONS, OMISSIONS, SHALL BE PRESENTED TO THE ARCHITECT DURING THE BIDDING PERIOD FOR CLARIFICATION.
2. ANY MATERIAL OR LABOR, EITHER NOT SHOWN ON THE DRAWINGS OR NOT SPECIFIED, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK INTENDED TO BE PERFORMED SHALL BE FURNISHED WITHOUT COST TO THE OWNER OR ARCHITECT.
3. ALL CONTRACTORS AND SUBCONTRACTORS SHALL FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT TO FURNISH A COMPLETE JOB IN ACCORDANCE WITH ALL LOCAL AND STATE GOVERNING AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK AND THE METHOD OF CONSTRUCTION.
4. THE GW/L CONTRACTOR SHALL MAINTAIN STABILITY OF THE ENTIRE STRUCTURE DURING CONSTRUCTION ACTIVITIES UNTIL THE WORK IS COMPLETE & FUNCTIONING AS A DESIGNED UNIT.
5. THE ARCHITECT/ ENGINEER SHALL NOT BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION CHOSEN BY THE CONTRACTOR.
6. ALL BID PACKAGE CONTRACTORS SHALL BE RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS & PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY & WILL NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE THE ARCHITECT/ CONSTRUCTION MANAGER IS RESPONSIBLE FOR HIS/HER OWN SAFETY, BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS.
7. ALL BID PACKAGE CONTRACTORS SHALL VERIFY ALL DIMENSIONS (NEW & EXISTING) & ALL INFORMATION CONTAINED IN THESE DOCUMENTS. THE GW/L CONTRACTOR SHALL VERIFY EXISTING CONDITIONS & REPORT ANY INCONSISTENCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. FAILURE TO DO SO WILL RELEASE THE ARCHITECT OF ALL RESPONSIBILITY. ANY CHANGES FROM THESE DOCUMENTS ARE THE SOLE RESPONSIBILITY OF EACH RESPECTIVE BID PACKAGE CONTRACTOR. THESE DRAWINGS ARE NOT TO BE SCALED.
8. THE BUILDING MUST BE CONSTRUCTED IN COMPLIANCE WITH THE ARCHITECTURAL BARRIERS ACT OF 1968, SECTION 504 OF THE REHABILITATION ACT OF 1973, AND THE AMERICAN WITH DISABILITIES ACT (ADA).

DESIGN TEAM:

ARCHITECT:
WDC GROUP
23 SOUTH CENTER STREET
SPRINGFIELD, OHIO 45502
(937) 325-9991

CIVIL ENGINEER:
ChoiceOne Engineering
440 EAST HOEWISHER ROAD
SIDNEY, OHIO 45365
(937) 497-0200

STRUCTURAL ENGINEER:
CLARK REDER ENGINEERING
10091 MOSTELLER LANE
WEST CHESTER, OHIO 45069
(513) 851-1223

PLUMBING, MECHANICAL, ELECTRICAL ENGINEER:
1 Point One Design, Ltd.
Consulting Engineers
2800 CORPORATE EXCHANGE DRIVE, SUITE 270
COLUMBUS, OHIO 43231
(614) 540-3500

COPYRIGHT © 2026
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

DRAWING INDEX

MAIN BUILDING

1	C0	COVER SHEET
2	L5.1.1	LIFE SAFETY PLAN
3	L5.1.2	LIFE SAFETY NOTES
4	L5.1.3	LIFE SAFETY NOTES
5	L5.1.4	HAZARDOUS MATERIALS
6	G1.1	GENERAL ACCESSIBILITY INFORMATION
7	G1.2	LIFE SAFETY SIGNAGE PLAN
8	G1.3	LIFE SAFETY SIGNAGE PLAN
9	G1.4	LIFE SAFETY SIGNAGE PLAN
10	G1.5	LIFE SAFETY SIGNAGE PLAN
11	C1	EXISTING CONDITIONS PLAN
12	C2	DIMENSIONING PLAN
13	C3	UTILITY PLAN
14	C4	GRADING PLAN
15	C5	PAVEMENT ELEVATION PLAN
16	C6	WASH OUT BAY DETAIL
17	C7.1	GENERAL NOTES AND DETAILS- 001
18	C8	GENERAL NOTES AND DETAILS- 002
19	C9	GENERAL NOTES AND DETAILS- 003
20	C10	GENERAL NOTES AND DETAILS- 004
21	C11	GENERAL NOTES AND DETAILS- 005
22	C12	GENERAL NOTES AND DETAILS- 006
23	C13	GENERAL NOTES AND DETAILS- 007
24	C14	SWPPP TITLE SHEET
25	C15	EROSION CONTROL NOTES AND DETAILS- 1
26	C16	EROSION CONTROL NOTES AND DETAILS- 2
27	C17	EROSION CONTROL NOTES AND DETAILS- 3
28	C18	SWPPP EROSION CONTROL PLAN
29	S0	GENERAL STRUCTURAL NOTES
30	S0.1	SPECIAL INSPECTIONS
31	S1.0	OVERALL FOUNDATION PLAN
32	S1.1	PARTIAL FOUNDATION PLAN
33	S1.2	PARTIAL FOUNDATION PLAN
34	S1.3	PARTIAL FOUNDATION PLAN
35	S1.4	PARTIAL FOUNDATION PLAN
36	S2.0	FOUNDATION DETAILS
37	S2.1	DETAILS
38	S3.1	SALT STORAGE FOUNDATION PLAN
39	S4.1	COLD STORAGE FOUNDATION PLAN
40	S5.1	MATERIAL STORAGE FOUNDATION PLAN
41	A1.1	OVERALL FLOOR PLAN
42	A1.2	FLOOR PLAN
43	A1.3	FLOOR PLAN
44	A1.4	FLOOR PLAN
45	A1.5	FLOOR PLAN
46	A2	EXTERIOR ELEVATIONS
47	A3.1	BUILDING SECTIONS
48	A3.2	BUILDING SECTIONS
49	A3.3	WALL SECTIONS
50	A3.4	WALL SECTIONS
51	A3.5	WALL SECTIONS
52	A3.6	WALL SECTIONS
53	A3.7	SAW CUT PLAN
54	A4.1	REFLECTED CEILING PLAN
55	A4.2	REFLECTED CEILING PLAN
56	A4.3	REFLECTED CEILING PLAN
57	A4.4	REFLECTED CEILING PLAN
58	A5	STAIR PLANS, SECTIONS, & DETAILS
59	A6.1	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS
60	A6.2	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS
61	A6.3	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS
62	A7	ROOF PLAN & DETAILS
63	A8.1	DOOR SCHEDULES & DETAILS
64	A8.2	DOOR, WINDOW AND ROOM FINISH SCHEDULES

SALT STORAGE

65	A9	SALT STORAGE STRUCTURE, FLOOR & SAW CUT PLANS
66	A10	SALT STORAGE STRUCTURE, EXTERIOR ELEVATIONS
67	A11	SALT STORAGE STRUCTURE, BUILDING & WALL SECTIONS
68	A12	SALT STORAGE STRUCTURE, REFL. CEILING & ROOF PLANS

COLD STORAGE

69	A13	COLD STORAGE STRUCTURE, FLOOR, REFL. CEILING, & SAW CUT PLANS
70	A14	COLD STORAGE STRUCTURE, EXT. ELEVATIONS & CATWALK PLATFORM
71	A15	COLD STORAGE STRUCTURE, BUILDING & WALL SECTIONS
72	A16	COLD STORAGE STRUCTURE, ROOF PLAN & DETAILS

MATERIAL BINS CANOPIES

73	A17	MATERIAL STOR. STRUCTURE, EXT. ELEV., FLOOR, & SAW CUT PLANS
74	A18	MATERIAL STORAGE STRUCTURE, BUILDING & WALL SECTIONS
75	A19	MATERIAL STORAGE STRUCTURE, ROOF PLAN & DETAILS

FUEL CANOPY STORAGE

76	A20	FUEL CANOPY STORAGE FLOOR PLAN
77	FP1	FIRE PROTECTION
78	P1.0	OVERALL PLUMBING PLAN
79	P1.1	ENLARGED PLUMBING PLAN 'A'
80	P1.2	ENLARGED PLUMBING PLAN 'B'
81	P1.3	ENLARGED PLUMBING PLAN 'C'
82	P1.4	ENLARGED PLUMBING PLAN 'D'
83	P2.1	ENLARGED PLUMBING PLAN
84	P3.1	PLUMBING SCHEDULES & DETAILS
85	P3.2	PLUMBING DETAILS
86	P3.3	PLUMBING SCHEMATIC
87	P4.1	PLUMBING SPECIFICATIONS
88	M1.0	OVERALL MECHANICAL PLAN
89	M1.1	ENLARGED MECHANICAL PLAN 'A'
90	M1.2	ENLARGED MECHANICAL PLAN 'B'
91	M1.3	ENLARGED MECHANICAL PLAN 'C'
92	M1.4	ENLARGED MECHANICAL PLAN 'D'
93	M2.0	MECHANICAL SCHEDULES
94	M3.0	MECHANICAL SCHEDULES & DETAILS
95	M4.0	MECHANICAL SPECIFICATIONS
96	E1.1	LIGHTING PLAN 'A'
97	E1.2	LIGHTING PLAN 'B'
98	E1.3	LIGHTING PLAN 'C'
99	E1.4	LIGHTING PLAN 'D'
100	E2.1	POWER PLAN 'A'
101	E2.2	POWER PLAN 'B'
102	E2.3	POWER PLAN 'C'
103	E2.4	POWER PLAN 'D'
104	E3.1	ELECTRICAL PANELS & DETAILS
105	E3.2	ELECTRICAL SPECIFICATIONS
106	E5.1.1	ELECTRICAL SITE PLAN
107	E5.1.2	ENLARGED OUT BUILDING ELECTRIC PLAN
108	E4.1	DATA FLOOR PLAN
109	E4.2	DATA FLOOR PLAN
110	E4.3	DATA FLOOR PLAN
111	E4.4	CAMERA LAYOUT FLOOR PLAN
112	E4.5	SECURITY SYSTEM FLOOR PLAN
113	FM0.1	ELECTRICAL SITE PLAN
114	FM0.2	POLE LIGHT CUTSHEETS

LEGEND

- A2 / A2 — ELEVATION
- J — WINDOW DESIGNATION
- 23 — DOOR DESIGNATION
- CORRIDOR 102 — ROOM DESIGNATION
- ELEVATION
- 1 — CODED NOTE
- 1B — BID PACKAGE NUMBER
- 1 / A3.7 — SECTION
- 1 / A3.7 — SECTION
- 2 / A3.1 — SECTION
- E — WALL TAG

BID PACKAGES

1A	GENERAL WORK & LABOR
2A	SITE WORK
2B	FUEL ISLAND
8A	OVERHEAD DOOR
15A	PLUMBING
15B	MECHANICAL
16A	ELECTRICAL
17A	LOW VOLTAGE / CCTV / DATA
17B	BUILDING ALARM & SECURITY
17C	ACCESS CONTROL

SET NO.

WDC GROUP
23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
info@wdc-group.com

REVISIONS:
1 06-29-2026

STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT
CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia ohio
small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
COVER SHEET

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

C0
1 OF 112

\\192.168.30.10\Jobs\PROJECTS\2014_Vandalia Public Works\DWGs\Sheets\C0_Vandalia_Public_Works.dwg, 7/2/2026 9:32:07 AM, AutoCAD PDF (General Documentation).pc3

CODED NOTES:

1. NEW HEAVY DUTY ASPHALT PAVEMENT. SEE LEGEND ON SHEETE C2.
2. MEET EXISTING EDGE OF PAVEMENT, SAW CUT FOR CLEAN EDGE.
3. NEW HEAVY DUTY CONCRETE PAVEMENT. SEE LEGEND ON SHEET C2.
4. LANDSCAPE AREA. CONTRACTOR SHALL PROVIDE FINISH GRADE.
5. NEW 5'-0" WIDE X 4" POURED CONCRETE SIDEWALK OVER 4" COMPACTED STONE W/ W1.4 X W1.4 W.W.M.
6. NEW PIPE BOLLARDS, CONCRETE FILLED AND PAINTED. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
7. NEW PARKING SPACE LINES. PAINTED WHITE, 4" WIDE.
8. NEW FUEL TANKS. SEE ARCHITECTURAL PLANS FOR DETAILS.
9. NEW CHAIN LINK FENCE. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
10. NEW MONUMENT SIGN. PROVIDED BY OWNER.
11. NEW CONCRETE PAD FOR GENERATOR.
12. PROVIDE AND INSTALL NEW ADA SIGN. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
13. NEW 6" CONCRETE BARRIER CURB. SEE DETAIL ON SHEET C1D.

CODED NOTES:

14. MATERIAL STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
15. TANK STORAGE OVERHANG. SEE ARCHITECTURAL PLANS FOR DETAILS.
16. SALT STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
17. COLD STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
18. NEW REMOVABLE LOCKABLE BOLLARDS.
19. NEW FIRE HYDRANT ASSEMBLY.
20. NEW FIRE DEPARTMENT CONNECTION.
21. REMOVE EXISTING CATCH BASIN AND STORM PIPING.

GENERAL NOTES:

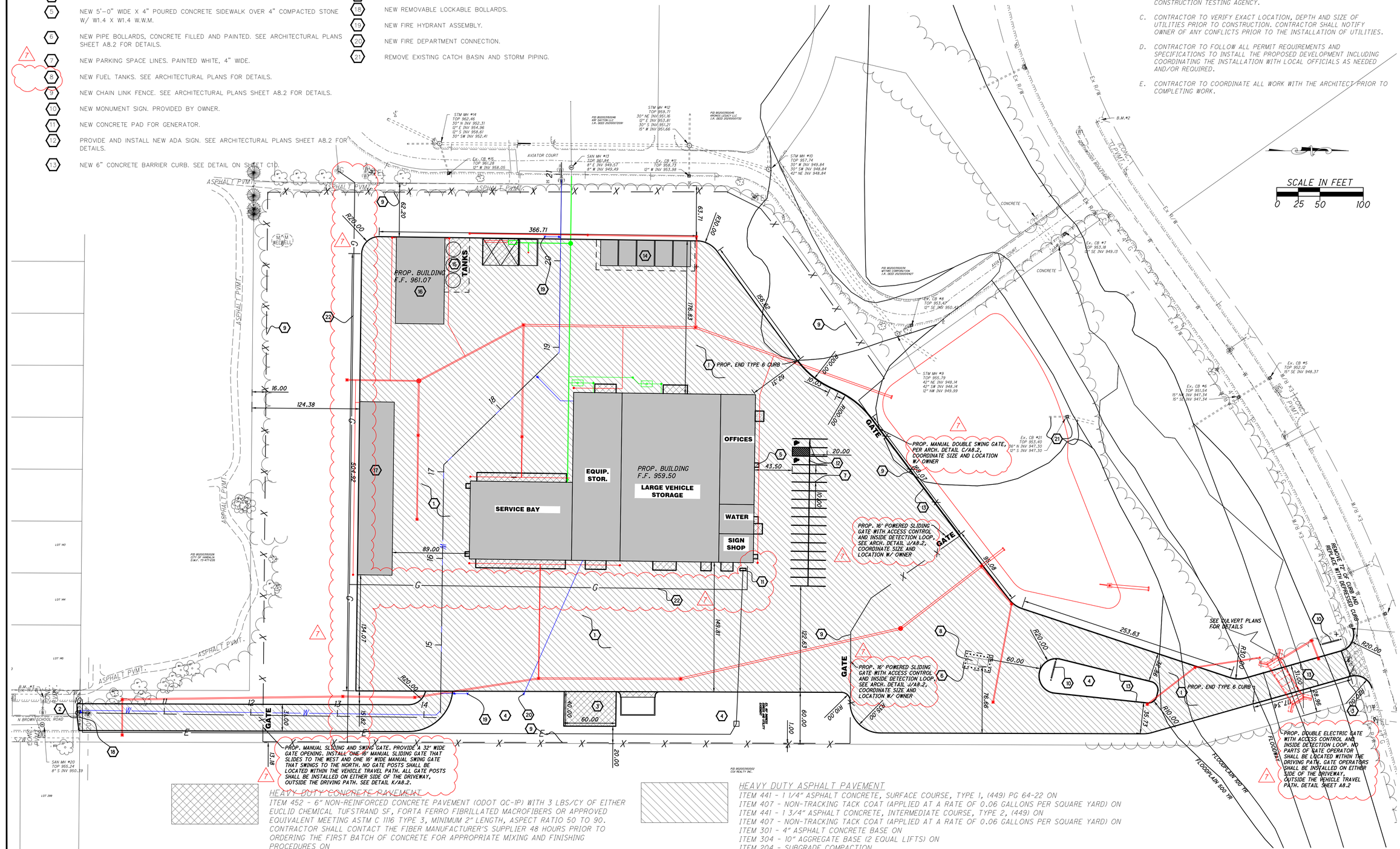
A. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING CONFIGURATION AND DIMENSIONS.

B. CONTRACTOR SHALL REVIEW THE SOIL BORINGS AND RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER. ALL CONSTRUCTION WORK ASSOCIATED WITH THE FOOTER, FOUNDATION, BUILDING SLAB AND BUILDING PAD SHALL BE INSPECTED AND APPROVED BY THE CONSTRUCTION TESTING AGENCY.

C. CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

D. CONTRACTOR TO FOLLOW ALL PERMIT REQUIREMENTS AND SPECIFICATIONS TO INSTALL THE PROPOSED DEVELOPMENT INCLUDING COORDINATING THE INSTALLATION WITH LOCAL OFFICIALS AS NEEDED AND/OR REQUIRED.

E. CONTRACTOR TO COORDINATE ALL WORK WITH THE ARCHITECT PRIOR TO COMPLETING WORK.



HEAVY DUTY CONCRETE PAVEMENT

ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT (ODOT QC-1P) WITH 3 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND SF, FORTA FERRO FIBRILLATED MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 2" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES ON
ITEM 304 - 8" AGGREGATE BASE ON
ITEM 204 - SUBGRADE COMPACTION

CONCRETE SIDEWALK

ITEM 608 - 4" CONCRETE SIDEWALK (ODOT QC-1P) ON
ITEM 411 - 4" STABILIZED AGGREGATE BASE

HEAVY DUTY ASPHALT PAVEMENT

ITEM 441 - 1 1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, (449) PG 64-22 ON
ITEM 407 - NON-TRACKING TACK COAT (APPLIED AT A RATE OF 0.06 GALLONS PER SQUARE YARD) ON
ITEM 441 - 1 3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, (449) ON
ITEM 407 - NON-TRACKING TACK COAT (APPLIED AT A RATE OF 0.06 GALLONS PER SQUARE YARD) ON
ITEM 301 - 4" ASPHALT CONCRETE BASE ON
ITEM 304 - 10" AGGREGATE BASE (2 EQUAL LIFTS) ON
ITEM 204 - SUBGRADE COMPACTION

PROPOSED BUILDING

ALL WORK ON THIS SHEET BY 2A UNLESS OTHERWISE NOTED.

COPYRIGHT © 2025
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

ChoiceOne Engineering
SIDNEY, OHIO 937.497.0300
LOVELAND, OHIO 513.239.8554
www.CHOICEONEENGINEERING.com
WDC GROUP

REVISIONS:
Addendum No. 1 - 05/26/2026
Addendum No. 3 - 06/08/2026
Addendum No. 1 - 06/15/2026

STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

vandalia ohio small city. big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377
DIMENSIONING PLAN

PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 05-18-2026
CHECKED BY: MLS

C2
12 OF 112

PROPOSED STORM STRUCTURES
#1 TYPE 2-2B CB TOP 956.50 15" N INV. 949.96 15" S INV. 949.96
#2 TYPE 2-2C CB TOP 956.24 15" S INV. 949.50 18" N INV. 949.45 8" W INV. 949.50
#3 TYPE 2-3 CB TOP 956.25 18" S INV. 948.41 24" N INV. 948.16
#4 TYPE 2-2C CB TOP 957.97 12" W INV. 955.00
#5 TYPE 2-2C CB TOP 958.24 15" W INV. 954.46 12" E INV. 954.71
#6 TYPE 2-2C CB TOP 958.24 8" E INV. 954.75 15" W INV. 954.75
#7 TYPE 2-3 CB TOP 957.95 15" SE INV. 953.59 15" E INV. 954.19 24" N INV. 953.40
#8 TYPE 2-3 CB TOP 957.14 24" S INV. 953.03 24" N INV. 952.03 12" W INV. 954.03
#9 TYPE 3 STM MH TOP 959.09 15" E INV. 954.20 15" NW INV. 954.20 12" S INV. 954.45
#10 TYPE 2-2B CB TOP 957.25 12" N INV. 954.75
#11 TYPE 2-2B CB TOP 956.09 15" N INV. 950.17 15" S INV. 950.17
#13 TYPE 2-2B CB TOP 954.22 15" N INV. 950.80 12" E INV. 951.05
#14 TYPE 2-2B CB TOP 954.22 12" W INV. 951.25
#15 TYPE 3 STM MH TOP 955.90 24" S INV. 947.45 24" NW INV. 947.45
#16 YARD DRAIN TOP 958.21 12" E INV. 954.66 12" S INV. 954.66
#17 YARD DRAIN TOP 958.13 12" N INV. 955.17 8" S INV. 955.50
#18 YARD DRAIN TOP 959.95 8" N INV. 955.17
#19 TYPE 2-2C CB TOP 945.87 12" W INV. 943.19
#20 TYPE 2-2B CB TOP 946.22 15" SE INV. 943.08 12" E INV. 943.08 15" N INV. 943.83

PROPOSED STORM STRUCTURES
#21 TYPE 2-3 CB TOP 954.13 24" SE INV. 947.10 30" NW INV. 947.10 12" NE INV. 948.04
#22 TYPE 2-2C CB TOP 951.01 12" NW INV. 946.00
#23 TYPE 2-2C CB TOP 949.06 12" SE INV. 944.61 12" N INV. 944.61
#24 TYPE 2-4 CB TOP 953.30 36" N INV. 947.00 8" S INV. 946.00
#25 TYPE 2-2C CB TOP 953.60 12" SW INV. 948.60 12" E INV. 948.60
#26 TYPE 2-2C CB TOP 953.75 12" W INV. 949.75

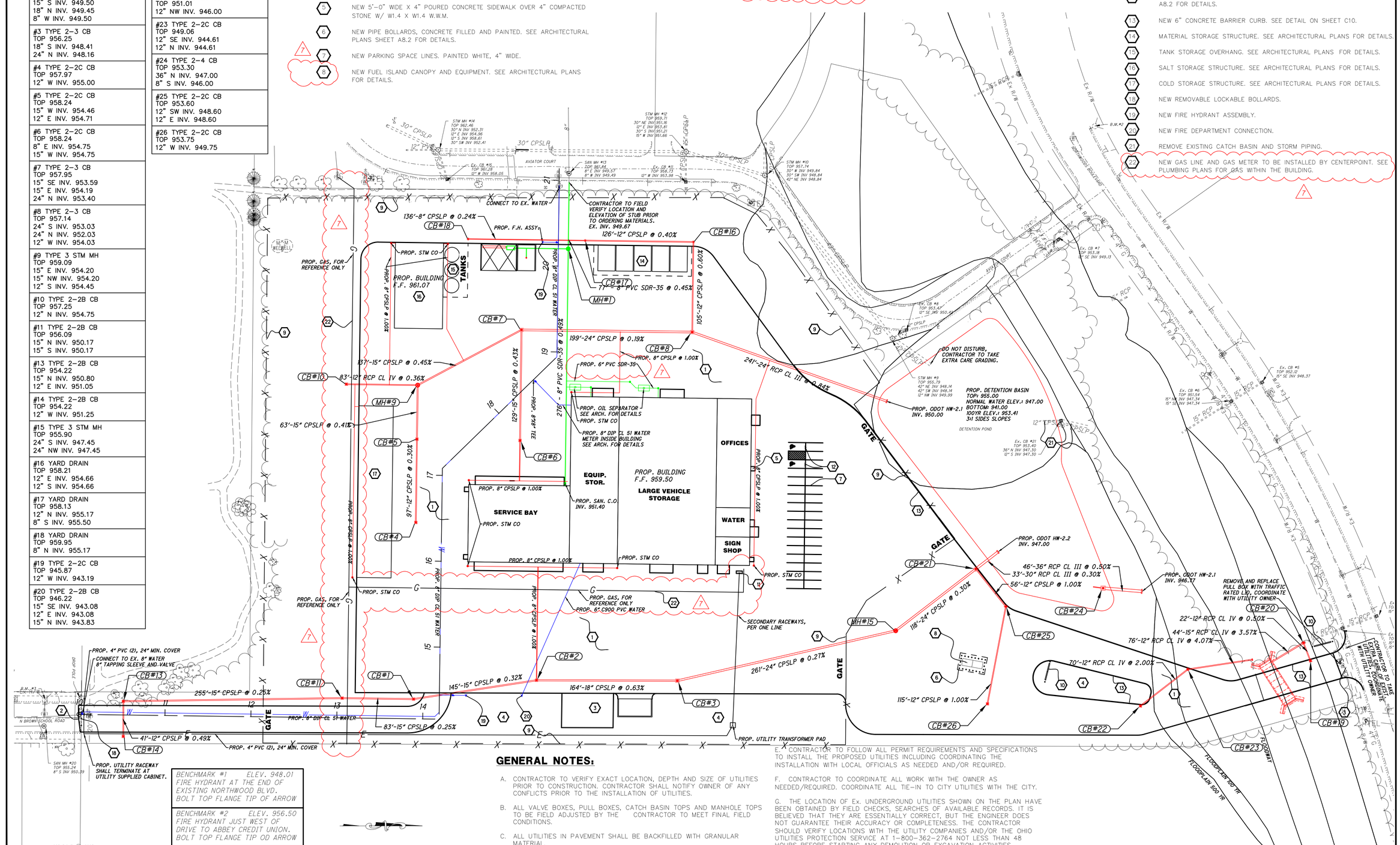
CODED NOTES:

1. NEW HEAVY DUTY ASPHALT PAVEMENT. SEE LEGEND ON SHEETE C2.
2. MEET EXISTING EDGE OF PAVEMENT, SAW CUT FOR CLEAN EDGE.
3. NEW HEAVY DUTY CONCRETE PAVEMENT. SEE LEGEND ON SHEET C2.
4. LANDSCAPE AREA. CONTRACTOR SHALL PROVIDE FINISH GRADE.
5. NEW 5'-0" WIDE X 4" POURED CONCRETE SIDEWALK OVER 4" COMPACTED STONE W/ W1.4 X W1.4 W.W.M.
6. NEW PIPE BOLLARDS, CONCRETE FILLED AND PAINTED. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
7. NEW PARKING SPACE LINES. PAINTED WHITE, 4" WIDE.
8. NEW FUEL ISLAND CANOPY AND EQUIPMENT. SEE ARCHITECTURAL PLANS FOR DETAILS.

PROPOSED SANITARY STRUCTURES
#1 TYPE 3 SAN MH TOP. 959.59 8" W INV. 950.02 8" S INV. 955.67 8" E INV. 950.02

CODED NOTES:

9. NEW CHAIN LINK FENCE. SEE ARCHITECTURAL PLANS A8.2 FOR DETAILS.
10. NEW MONUMENT SIGN. PROVIDED BY OWNER.
11. NEW CONCRETE PAD FOR GENERATOR.
12. PROVIDE AND INSTALL NEW ADA SIGN. ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
13. NEW 6" CONCRETE BARRIER CURB. SEE DETAIL ON SHEET C10.
14. MATERIAL STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
15. TANK STORAGE OVERHANG. SEE ARCHITECTURAL PLANS FOR DETAILS.
16. SALT STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
17. COLD STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
18. NEW REMOVABLE LOCKABLE BOLLARDS.
19. NEW FIRE HYDRANT ASSEMBLY.
20. NEW FIRE DEPARTMENT CONNECTION.
21. REMOVE EXISTING CATCH BASIN AND STORM PIPING.
22. NEW GAS LINE AND GAS METER TO BE INSTALLED BY CENTERPOINT. SEE PLUMBING PLANS FOR GAS WITHIN THE BUILDING.


CONNECT TO EX. WATER
CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF STUB PRIOR TO ORDERING MATERIALS. EX. INV. 949.67
136'-8" CPSLP @ 0.24%
126'-12" CPSLP @ 0.40%
105'-12" CPSLP @ 0.60%
71'-8" PVC SDR-35 @ 0.45%
199'-24" CPSLP @ 0.19%
241'-24" RCP CL III @ 0.84%
137'-15" CPSLP @ 0.45%
83'-12" RCP CL IV @ 0.36%
63'-15" CPSLP @ 0.41%
129'-15" CPSLP @ 0.43%
276'-8" PVC SDR-35 @ 0.49%
97'-12" CPSLP @ 0.30%
261'-24" CPSLP @ 0.27%
118'-24" CPSLP @ 0.30%
46'-36" RCP CL III @ 0.50%
33'-30" RCP CL III @ 0.30%
56'-12" CPSLP @ 1.00%
115'-12" CPSLP @ 1.00%
70'-12" RCP CL IV @ 2.00%
76'-12" RCP CL IV @ 4.07%
44'-15" RCP CL IV @ 3.57%
22'-12" RCP CL IV @ 0.50%
145'-15" CPSLP @ 0.32%
164'-18" CPSLP @ 0.63%
255'-15" CPSLP @ 0.25%
83'-15" CPSLP @ 0.25%
41'-12" CPSLP @ 0.49%
PROP. BUILDING F.F. 961.07
PROP. BUILDING F.F. 959.50
PROP. DETENTION BASIN
TOP: 955.00
NORMAL WATER ELEV.: 947.00
BOTTOM: 941.00
100YR ELEV.: 953.41
3H SIDES SLOPES
DETENTION POND
PROP. ODOT HW-2.1 INV. 950.00
PROP. ODOT HW-2.2 INV. 947.00
PROP. ODOT HW-2.1 INV. 946.77
DO NOT DISTURB, CONTRACTOR TO TAKE EXTRA CARE GRADING.
REMOVE AND REPLACE PULL BOX WITH TRAFFIC RATED LID, COORDINATE WITH UTILITY OWNER
CONTRACTOR TO TAKE EXTRA CARE TO COORDINATE WITH UTILITY OWNER
TANKS
OFFICES
EQUIP. STOR.
SERVICE BAY
WATER
SIGN SHOP
LARGE VEHICLE STORAGE
PROP. STM CO
PROP. 8" DIP CL 51 WATER
PROP. 8" CPSLP @ 1.00%
PROP. 6" PVC SDR-35
PROP. 8" CPSLP @ 1.00%
PROP. OIL SEPARATOR SEE ARCH. FOR DETAILS
PROP. 8" DIP CL 51 WATER METER INSIDE BUILDING SEE ARCH. FOR DETAILS
PROP. SAN. C.O INV. 951.40
PROP. 6" C900 PVC WATER
PROP. GAS, FOR REFERENCE ONLY
SECONDARY RACEWAYS, PER ONE LINE
PROP. UTILITY TRANSFORMER PAD
PROP. UTILITY RACEWAY SHALL TERMINATE AT UTILITY SUPPLIED CABINET.
PROP. 4" PVC (2), 24" MIN. COVER
CONNECT TO EX. 8" WATER
8" TAPPING SLEEVE AND VALVE
PROP. 8" CPSLP @ 1.00%
PROP. 8" TEE
PROP. 8" DIP CL 51 WATER
PROP. 4" PVC (2), 24" MIN. COVER
PROP. GAS, FOR REFERENCE ONLY
PROP. 8" CPSLP @ 1.00%
PROP. 8" CPSLP @ 0.30%
PROP. 8" CPSLP @ 1.00%
PROP. 8" CPSLP @ 1.00%
PROP. 8" CPSLP @ 1.00

NOTES:

CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHEREVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHEREVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE.

CONTRACTOR TO ENSURE ALL AREAS OF THE SITE HAVE POSITIVE DRAINAGE. NO PONDING OR PUDDLING OF WATER IS PERMITTED.

GRADE TIE IN NOTE:

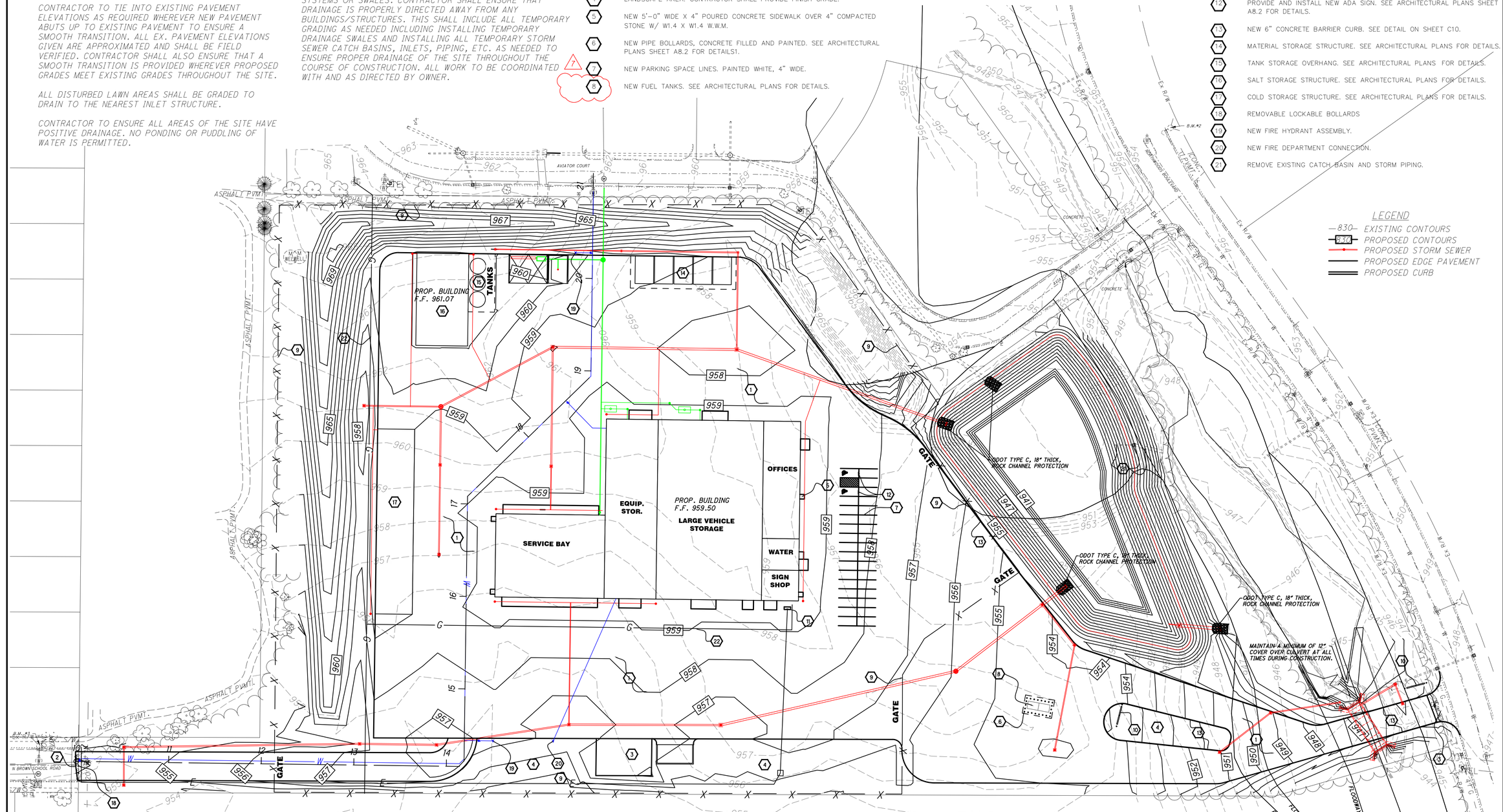
CONTRACTOR TO TIE INTO EXISTING ELEVATIONS THROUGHOUT THE SITE. CONTRACTOR SHALL ENSURE PROPER GRADING AND DRAINAGE IS PROVIDED FOR ALL AREAS WITHIN THE SITE TO DRAIN TO EXISTING OR PROPOSED STORM SYSTEMS OR SWALES. CONTRACTOR SHALL ENSURE THAT DRAINAGE IS PROPERLY DIRECTED AWAY FROM ANY BUILDINGS/STRUCTURES. THIS SHALL INCLUDE ALL TEMPORARY GRADING AS NEEDED INCLUDING INSTALLING TEMPORARY DRAINAGE SWALES AND INSTALLING ALL TEMPORARY STORM SEWER CATCH BASINS, INLETS, PIPING, ETC. AS NEEDED TO ENSURE PROPER DRAINAGE OF THE SITE THROUGHOUT THE COURSE OF CONSTRUCTION. ALL WORK TO BE COORDINATED WITH AND AS DIRECTED BY OWNER.

CODED NOTES:

1. NEW HEAVY DUTY ASPHALT PAVEMENT. SEE LEGEND ON SHEETE C2.
2. MEET EXISTING EDGE OF PAVEMENT, SAW CUT FOR CLEAN EDGE.
3. NEW HEAVY DUTY CONCRETE PAVEMENT. SEE LEGEND ON SHEET C2.
4. LANDSCAPE AREA. CONTRACTOR SHALL PROVIDE FINISH GRADE.
5. NEW 5'-0" WIDE X 4" POURED CONCRETE SIDEWALK OVER 4" COMPACTED STONE W/ W1.4 X W1.4 W.W.M.
6. NEW PIPE BOLLARDS, CONCRETE FILLED AND PAINTED. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS1.
7. NEW PARKING SPACE LINES. PAINTED WHITE, 4" WIDE.
8. NEW FUEL TANKS. SEE ARCHITECTURAL PLANS FOR DETAILS.

CODED NOTES:

9. NEW CHAIN LINK FENCE. SEE ARCHITECTURAL PLANS A8.2 FOR DETAILS.
10. NEW MONUMENT SIGN. PROVIDED BY OWNER.
11. NEW CONCRETE PAD FOR GENERATOR.
12. PROVIDE AND INSTALL NEW ADA SIGN. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
13. NEW 6" CONCRETE BARRIER CURB. SEE DETAIL ON SHEET C10.
14. MATERIAL STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
15. TANK STORAGE OVERHANG. SEE ARCHITECTURAL PLANS FOR DETAILS.
16. SALT STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
17. COLD STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
18. REMOVABLE LOCKABLE BOLLARDS
19. NEW FIRE HYDRANT ASSEMBLY.
20. NEW FIRE DEPARTMENT CONNECTION.
21. REMOVE EXISTING CATCH BASIN AND STORM PIPING.



LEGEND

- 830 EXISTING CONTOURS
- 830 PROPOSED CONTOURS
- PROPOSED STORM SEWER
- PROPOSED EDGE PAVEMENT
- PROPOSED CURB

BENCHMARK #1	ELEV. 948.01 FIRE HYDRANT AT THE END OF EXISTING NORTHWOOD BLVD. BOLT TOP FLANGE TIP OF ARROW
BENCHMARK #2	ELEV. 956.50 FIRE HYDRANT JUST WEST OF DRIVE TO ABBEY CREDIT UNION. BOLT TOP FLANGE TIP OD ARROW
BENCHMARK #3	ELEV. 957.84 FIRE HYDRANT AT END OF BROWN SCHOOL RD. NORTH BOLT TOP FLANGE.

COPYRIGHT © 2025
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

SCALE IN FEET
0 25 50 100

A. ALL WATER LINES, WATER SERVICES AND SANITARY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL GOVERNING STANDARDS.
B. EACH CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWING AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.
C. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.
D. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR PUBLIC UTILITY CONNECTIONS, AND ALL WORK IN PUBLIC RIGHT-OF-WAY.
E. CONTRACTORS ARE REQUIRED TO PAY FOR ALL HOOKUPS-METER BASES, VALVES. ECT. – AS REQUIRED FOR ALL UTILITY HOOK UPS. OWNER SHALL PAY ONLY FOR TAP FEES.
F. EROSION CONTROL MEASURES TO BE SET PER GOVERNING STANDARDS BY SITE CONTRACTOR AS SITE IS CONSTRUCTED.
G. CONTRACTOR IS RESPONSIBLE FOR ROUGH AND FINAL GRADING OF EXISTING SITE. THIS REQUIRES ALL CONSTRUCTION DEBRIS, LARGE OBJECTS, ETC. TO BE REMOVED AND PREPARE EXISTING SITE FOR TOPSOIL AND SEEDING.
H. GRADE ELEVATIONS INDICATE FINISHED PAVEMENT, GUTTER OR GROUND ELEVATIONS UNLESS OTHERWISE NOTED.
I. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ON SITE.
J. CONTRACTOR IS REQUIRED TO EXCAVATE, REMOVE, AND RELOCATE ON SITE SPOILS FOR ALL BUILDING PADS, SIDEWALKS, DRIVEWAYS, AND PARKING LOT. COORDINATE LOCATION WITH OWNER.
K. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL PERMITS HAVE BEEN ISSUED AS REQUIRED.
L. ALL MUD/DIRT TRACKED ONTO PUBLIC ROADS FROM SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY ALL CONTRACTORS.
M. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER.
N. CONTRACTOR IS RESPONSIBLE FOR PAVEMENT RESTORATION.
O. ACCESSIBLE PARKING AND ACCESSIBLE LOADING AREAS WILL BE A MAX. SLOPE OF 2% IN ANY DIRECTION. ALL ACCESSIBLE ROUTES WILL BE A MAX. SLOPE OF 20:1 WITHOUT RAILING. ACCESSIBLE ROUTE WILL BE A MAX. SLOPE OF 12:1 WITH RAILING BUT MUST HAVE 5' LANDING AT THE BEGINNING AND END OF RAMP.
P. COORDINATE UTILITY PENETRATIONS, ELEVATIONS AND LOCATIONS WITH ARCHITECTURAL & MEP PLANS.

ALL WORK ON THIS SHEET BY 2A UNLESS OTHERWISE NOTED.

ChoiceOne Engineering
SIDNEY, OHIO 937.497.0200
LOVELAND, OHIO 513.239.8554
www.CHOICEONEENGINEERING.com

WDC GROUP

REVISIONS:
Addendum No. 1 - 05/16/2026
Addendum No. 3 - 06/08/2026
Addendum No. 1- 06/19/2026

STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

vandalia small city, big opportunity.

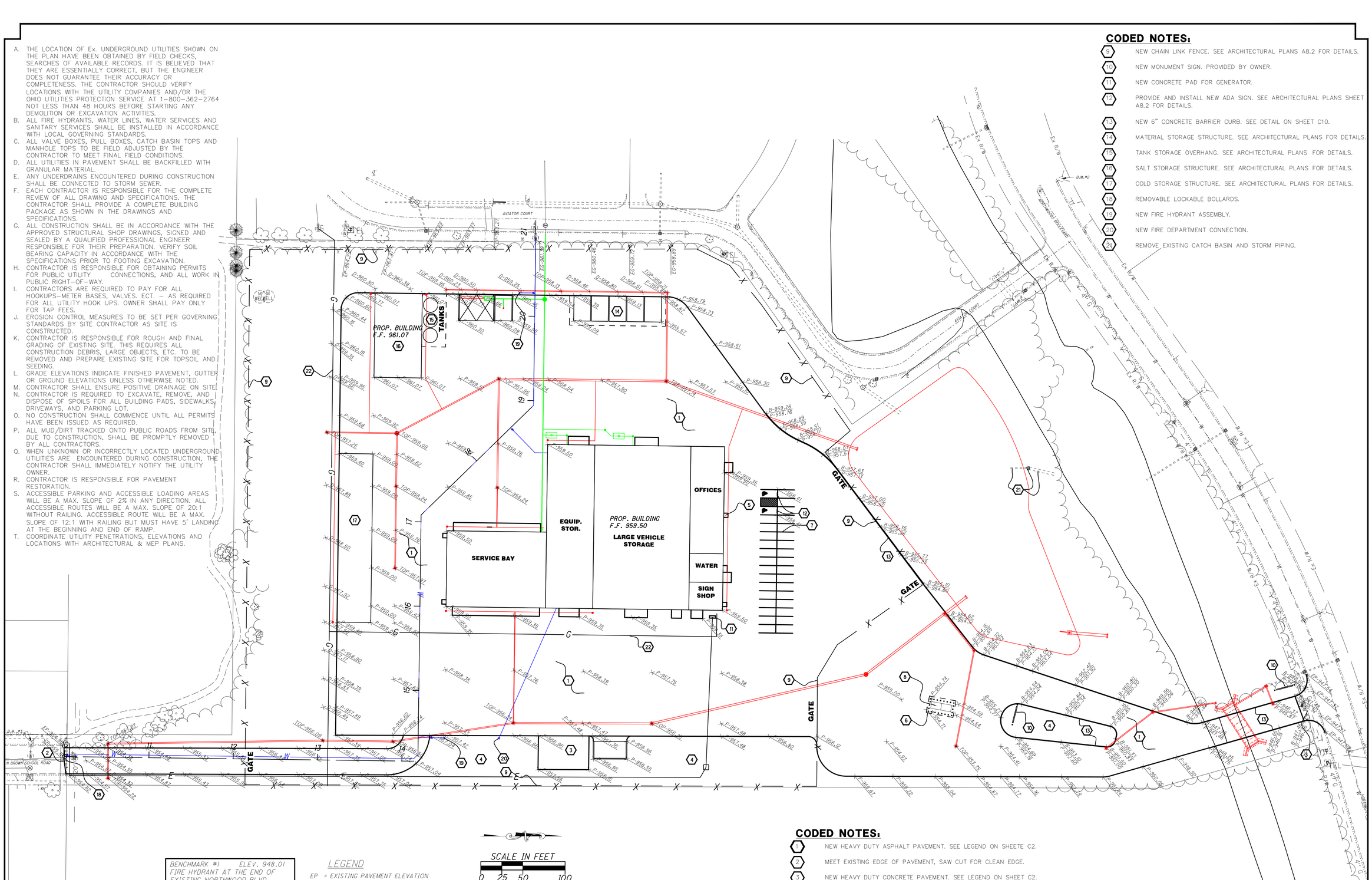
A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

GRADING PLAN

PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 05-18-2026
CHECKED BY: MLS

C4
14 OF 112

A. THE LOCATION OF Ex. UNDERGROUND UTILITIES SHOWN ON THE PLAN HAVE BEEN OBTAINED BY FIELD CHECKS, SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHOULD VERIFY LOCATIONS WITH THE UTILITY COMPANIES AND/OR THE OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 NOT LESS THAN 48 HOURS BEFORE STARTING ANY DEMOLITION OR EXCAVATION ACTIVITIES.
B. ALL FIRE HYDRANTS, WATER LINES, WATER SERVICES AND SANITARY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL GOVERNING STANDARDS.
C. ALL VALVE BOXES, PULL BOXES, CATCH BASIN TOPS AND MANHOLE TOPS TO BE FIELD ADJUSTED BY THE CONTRACTOR TO MEET FINAL FIELD CONDITIONS.
D. ALL UTILITIES IN PAVEMENT SHALL BE BACKFILLED WITH GRANULAR MATERIAL.
E. ANY UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION SHALL BE CONNECTED TO STORM SEWER.
F. EACH CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWING AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.
G. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.
H. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR PUBLIC UTILITY CONNECTIONS, AND ALL WORK IN PUBLIC RIGHT-OF-WAY.
I. CONTRACTORS ARE REQUIRED TO PAY FOR ALL HOOKUPS-METER BASES, VALVES, ECT. - AS REQUIRED FOR ALL UTILITY HOOK UPS. OWNER SHALL PAY ONLY FOR TAP FEES.
J. EROSION CONTROL MEASURES TO BE SET PER GOVERNING STANDARDS BY SITE CONTRACTOR AS SITE IS CONSTRUCTED.
K. CONTRACTOR IS RESPONSIBLE FOR ROUGH AND FINAL GRADING OF EXISTING SITE. THIS REQUIRES ALL CONSTRUCTION DEBRIS, LARGE OBJECTS, ETC. TO BE REMOVED AND PREPARE EXISTING SITE FOR TOPSOIL AND SEEDING.
L. GRADE ELEVATIONS INDICATE FINISHED PAVEMENT, GUTTER OR GROUND ELEVATIONS UNLESS OTHERWISE NOTED.
M. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ON SITE.
N. CONTRACTOR IS REQUIRED TO EXCAVATE, REMOVE, AND DISPOSE OF SPOILS FOR ALL BUILDING PADS, SIDEWALKS, DRIVEWAYS, AND PARKING LOT.
O. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL PERMITS HAVE BEEN ISSUED AS REQUIRED.
P. ALL MUD/DIRT TRACKED ONTO PUBLIC ROADS FROM SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY ALL CONTRACTORS.
Q. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER.
R. CONTRACTOR IS RESPONSIBLE FOR PAVEMENT RESTORATION.
S. ACCESSIBLE PARKING AND ACCESSIBLE LOADING AREAS WILL BE A MAX. SLOPE OF 2% IN ANY DIRECTION. ALL ACCESSIBLE ROUTES WILL BE A MAX. SLOPE OF 20:1 WITHOUT RAILING. ACCESSIBLE ROUTE WILL BE A MAX. SLOPE OF 12:1 WITH RAILING BUT MUST HAVE 5' LANDING AT THE BEGINNING AND END OF RAMP.
T. COORDINATE UTILITY PENETRATIONS, ELEVATIONS AND LOCATIONS WITH ARCHITECTURAL & MEP PLANS.



CODED NOTES:

9. NEW CHAIN LINK FENCE. SEE ARCHITECTURAL PLANS A8.2 FOR DETAILS.
10. NEW MONUMENT SIGN. PROVIDED BY OWNER.
11. NEW CONCRETE PAD FOR GENERATOR.
12. PROVIDE AND INSTALL NEW ADA SIGN. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
13. NEW 6" CONCRETE BARRIER CURB. SEE DETAIL ON SHEET C10.
14. MATERIAL STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
15. TANK STORAGE OVERHANG. SEE ARCHITECTURAL PLANS FOR DETAILS.
16. SALT STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
17. COLD STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
18. REMOVABLE LOCKABLE BOLLARDS.
19. NEW FIRE HYDRANT ASSEMBLY.
20. NEW FIRE DEPARTMENT CONNECTION.
21. REMOVE EXISTING CATCH BASIN AND STORM PIPING.

BENCHMARK #1	ELEV. 948.01 FIRE HYDRANT AT THE END OF EXISTING NORTHWOOD BLVD. BOLT TOP FLANGE TIP OF ARROW
BENCHMARK #2	ELEV. 956.50 FIRE HYDRANT JUST WEST OF DRIVE TO ABBEY CREDIT UNION. BOLT TOP FLANGE TIP OD ARROW
BENCHMARK #3	ELEV. 957.84 FIRE HYDRANT AT END OF BROWN SCHOOL RD. NORTH BOLT TOP FLANGE.

LEGEND

EP = EXISTING PAVEMENT ELEVATION
EB = EXISTING TOP OF CURB ELEVATION
EW = EXISTING SIDEWALK ELEVATION
EG = EXISTING GROUND ELEVATION
EFL = EXISTING FLOWLINE ELEVATION
ETOP = EXISTING TOP OF GRATE ELEVATION
P = PROPOSED PAVEMENT ELEVATION
B = PROPOSED TOP OF CURB ELEVATION
W = PROPOSED SIDEWALK ELEVATION
G = PROPOSED GROUND ELEVATION
D = PROPOSED SWALE ELEVATION
TOP = PROPOSED TOP OF GRATE ELEVATION

SCALE IN FEET
0 25 50 100

NOTE:
CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHEREVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHEREVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

CODED NOTES:

1. NEW HEAVY DUTY ASPHALT PAVEMENT. SEE LEGEND ON SHEETE C2.
2. MEET EXISTING EDGE OF PAVEMENT, SAW CUT FOR CLEAN EDGE.
3. NEW HEAVY DUTY CONCRETE PAVEMENT. SEE LEGEND ON SHEET C2.
4. LANDSCAPE AREA. CONTRACTOR SHALL PROVIDE FINISH GRADE.
5. NEW 5'-0" WIDE X 4" POURED CONCRETE SIDEWALK OVER 4" COMPACTED STONE W/ W1.4 X W1.4 W.W.M.
6. NEW PIPE BOLLARDS, CONCRETE FILLED AND PAINTED. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
7. NEW PARKING SPACE LINES. PAINTED WHITE, 4" WIDE.
8. NEW FUEL TANKS. SEE ARCHITECTURAL PLANS FOR DETAILS.

ALL WORK ON THIS SHEET BY 2A UNLESS OTHERWISE NOTED.

COPYRIGHT © 2025
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

ChoiceOne Engineering
SIDNEY, OHIO 937.497.0200
LOVELAND, OHIO 513.239.8554
www.CHOICEONEENGINEERING.com
WDC GROUP

REVISIONS:
Addendum No. 3 - 06/20/2026
Addendum No. 1 - 06/19/2026

STATE OF OHIO
MICHAEL LEMS SEEGER
E-81748
REGISTERED PROFESSIONAL ENGINEER

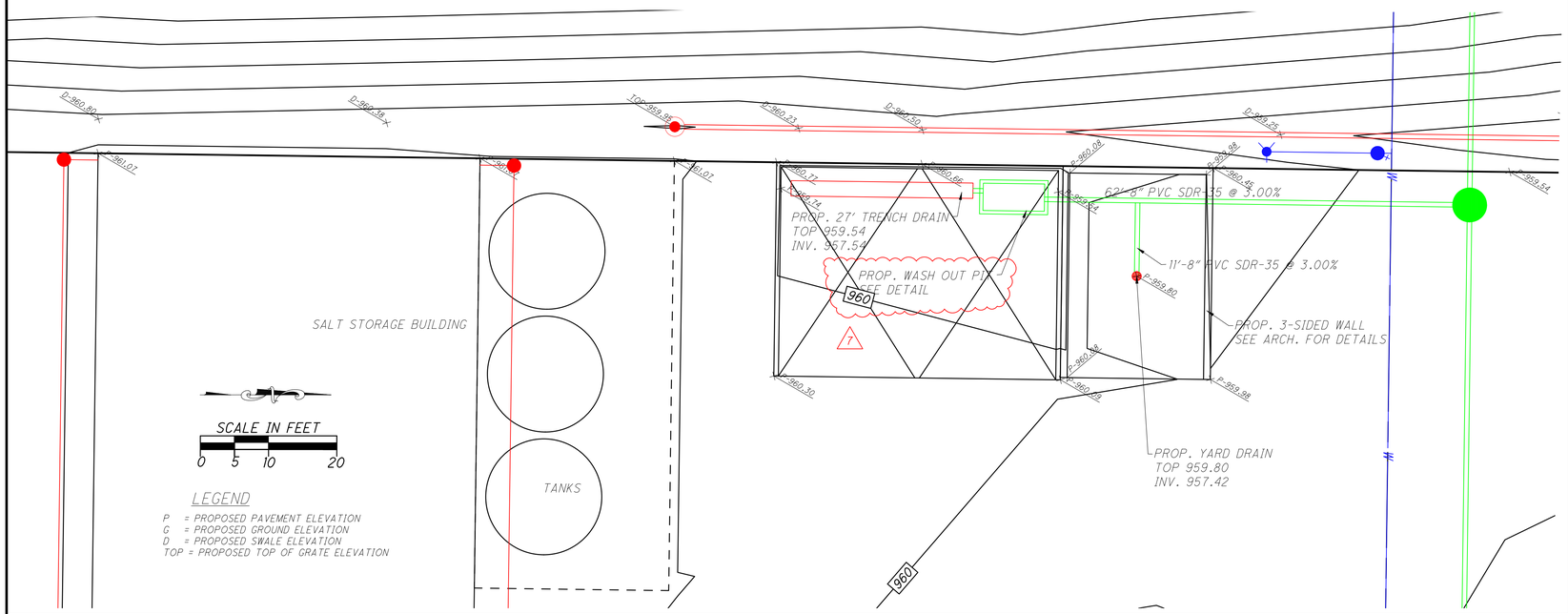
ohio vandalia small city. big opportunity.

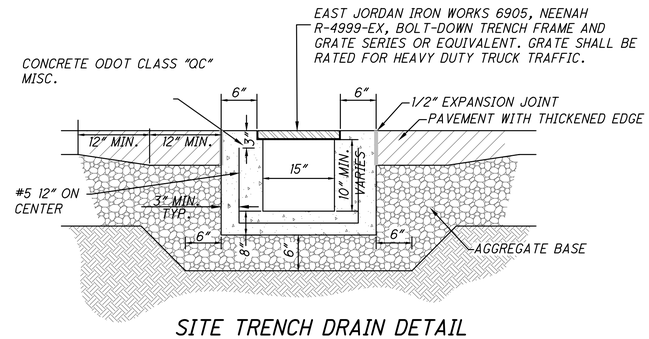
A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

PAVEMENT ELEVATION PLAN

PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 05-18-2026
CHECKED BY: MLS

C5
15 OF 112





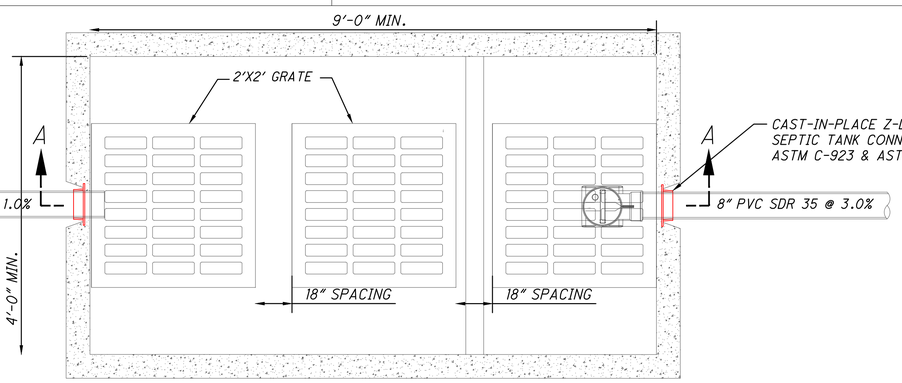
SITE TRENCH DRAIN DETAIL

INSTALL FRAME AND GRATE PER MANUFACTURER'S REQUIREMENTS/RECOMMENDATIONS AND SECURE ANGLE IRON/FRAME TO CONCRETE PER MANUFACTURER'S REQUIREMENTS/RECOMMENDATIONS.

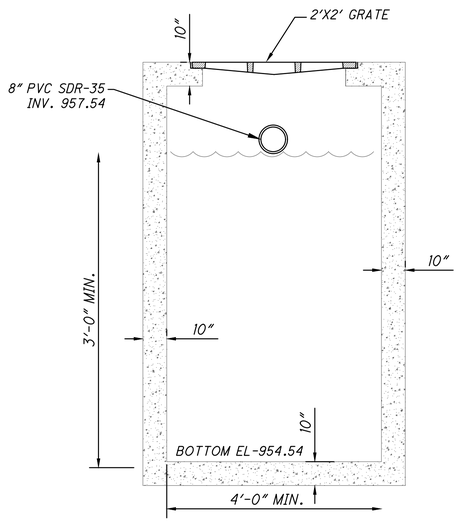
CONCRETE PAVEMENT THICKENED EDGE NOTES:

1) CONCRETE PAVEMENT SHALL HAVE ISOLATION JOINTS AT THICKENED EDGE WHERE PAVEMENT MEETS TRENCH DRAIN.

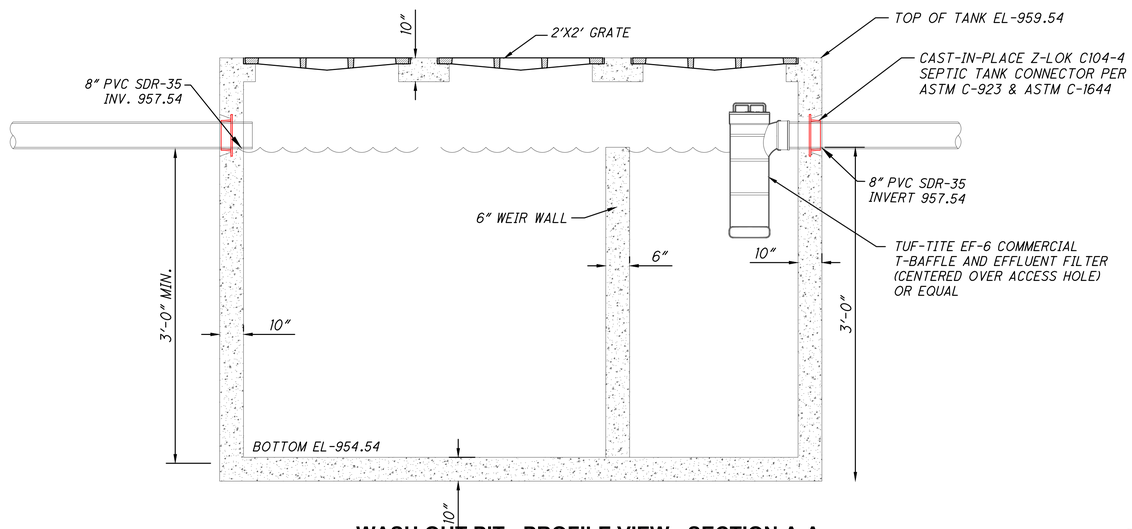
2) THICKENED EDGES SHALL CONSISTS OF A MINIMUM OF A 2" INCREASE IN THE THICKNESS OF THE CONCRETE PAVEMENT ALONG A MINIMUM OF 24" OF THE PAVEMENT. THE 2" THICKNESS INCREASE SHALL TRANSITION OVER A MINIMUM OF 12"–24".



WASH OUT PIT - TOP VIEW



WASH OUT PIT - END VIEW



WASH OUT PIT - PROFILE VIEW - SECTION A-A

WASH OUT PIT DETAIL

STRUCTURE, FRAME AND GRATE SHALL BE TRAFFIC RATED PER PRECAST MANUFACTURER'S SPECIFICATIONS.

SHOP DRAWING SHALL BE SUBMITTED TO THE OWNER PRIOR TO ORDERING MATERIALS.

COPYRIGHT © 2025
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

ChoiceOne Engineering
SIDNEY, OHIO 937.497.0200
LOVELAND, OHIO 513.239.8554
www.CHOICEONEENGINEERING.com
WDC GROUP

REVISIONS:
Addendum No. 1- 06/19/2026

STATE OF OHIO
MICHAEL LEMS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

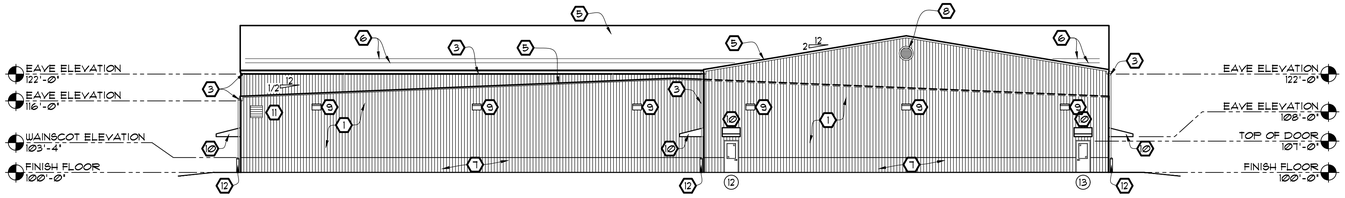
vandalia ohio
small city. big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

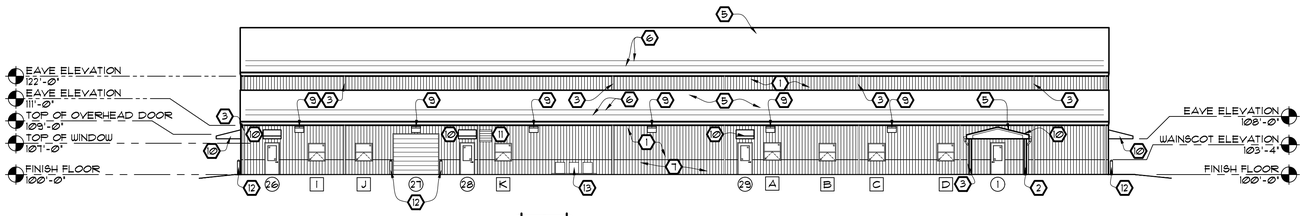
WASH OUT BAY DETAIL

PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 05-18-2026
CHECKED BY: MLS

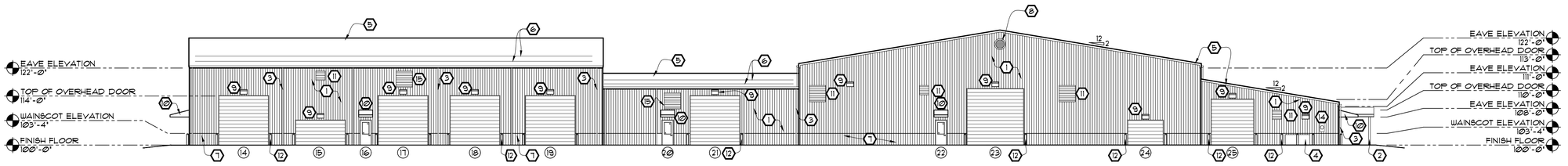
C6
16 OF 112



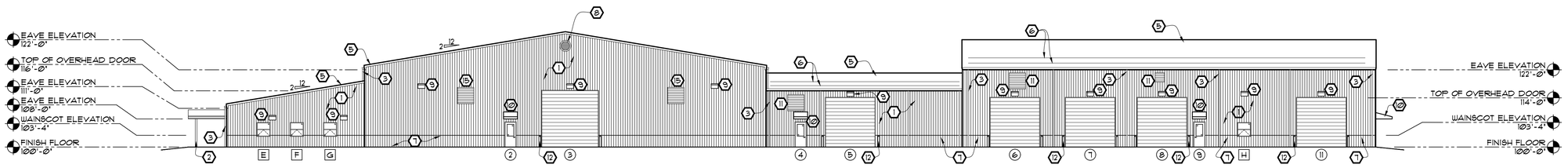
1 A2 **SOUTH ELEVATION**
SCALE: 1/16"=1'-0"



2 A2 **NORTH ELEVATION**
SCALE: 1/16"=1'-0"



3 A2 **EAST ELEVATION**
SCALE: 1/16"=1'-0"



4 A2 **WEST ELEVATION**
SCALE: 1/16"=1'-0"

COPYRIGHT © 2026

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

ALL WORK ON THIS SHEET BY (1A) UNLESS OTHERWISE NOTED.

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS & SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS & SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

D. WINDOWS ARE TO BE INSTALLED ABOVE METAL/MASONRY WAINSCOT TO ENSURE A CONTINUOUS HORIZONTAL METAL FLASHING.

CODED NOTES:

1. BUTLER SHADOWALL SYSTEM WITH FLUROPOLYMER COATING **-BASE BID**, 3" BUTLER THERMAWALL SYSTEM **-ALTERNATE #1**.
2. 6"x6" STRUCTURAL COLUMN. FRAME COLUMN TO BE SQUARE. WRAP WITH METAL.
3. 6" CONTINUOUS ALUMINUM GUTTERS & DOWNSPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWNSPOUT & DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE & DRAINED AWAY FROM BUILDING TO PROPER LOCATION. SITE CONTRACTOR IS REQUIRED TO MAKE CONNECTION TO DOWNSPOUTS VIA REQUIRED BOOTS, CONNECTORS, ETC.
4. (16A) GENERATOR. PROVIDE 12" THICK CONCRETE SLAB AS RECOMMENDED BY MANUFACTURER. COORDINATE LOCATION WITH ALL CONTRACTORS.
5. STANDING SEAM METAL ROOF BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. COLOR SELECTED BY ARCHITECT. BUTLER MR-24 ROOF SYSTEM WITH INSULATION SYSTEM.
6. CONTINUOUS METAL SNOW/ICE GUARD AT SPECIFIED LOCATIONS.
7. INSTALL STEEL WAINSCOT SIDING. COLOR TO BE CHOSEN BY OWNER.
8. INSTALL DECORATIVE LOUVER.
9. (16A) EXTERIOR BUILDING LIGHTING. LOCATION BY ARCHITECT. SEE SHEET ELECTRICAL DRAWINGS.
10. PROVIDE & INSTALL AWNING OVER ENTRY. PRE-ENGINEERED METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF EACH 4'-0" WIDTH x 4'-0" LENGTH AWNING & CONNECTION DETAILS. (1)
11. (15B) (16A) EXHAUST FAN. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL PLANS.
12. PIPE BOLLARDS, CONCRETE FILLED & PAINTED. SEE DETAIL 3/A11.
13. (15B) (16A) MECHANICAL UNIT. INSTALL ON 4" CONCRETE PAD ISOLATED FROM ADJACENT SLAB. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR. GW4L SHALL PROVIDE CONCRETE PAD.
14. CT CABINET, METER BASE & TRANSFER SWITCH. COORDINATE WITH UTILITY COMPANY.
15. (15B) (16A) INTAKE LOUVER. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.

WDC GROUP
23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
info@wdc-group.com

REVISIONS:
1 06-29-2026

STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOOD BLVD
VANDALIA, OHIO 45377

EXTERIOR ELEVATIONS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

A2
46 OF 112

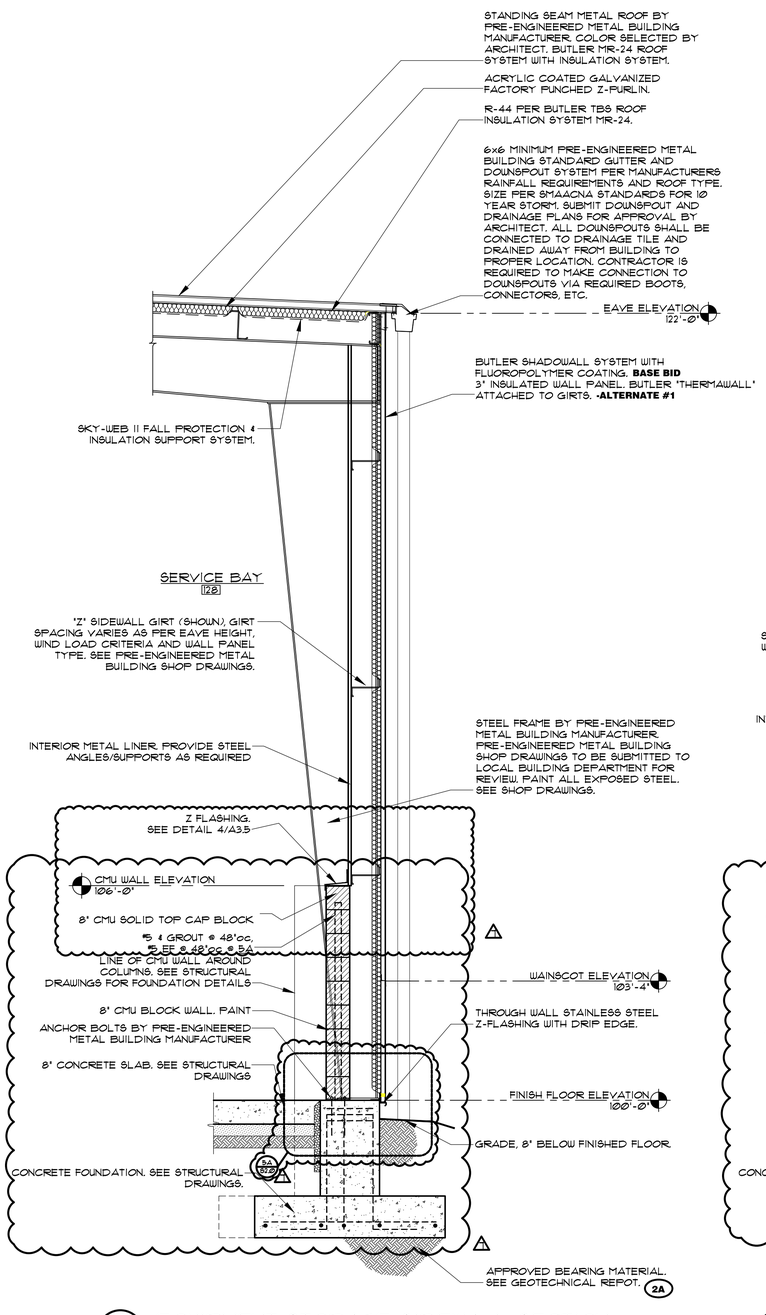
GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

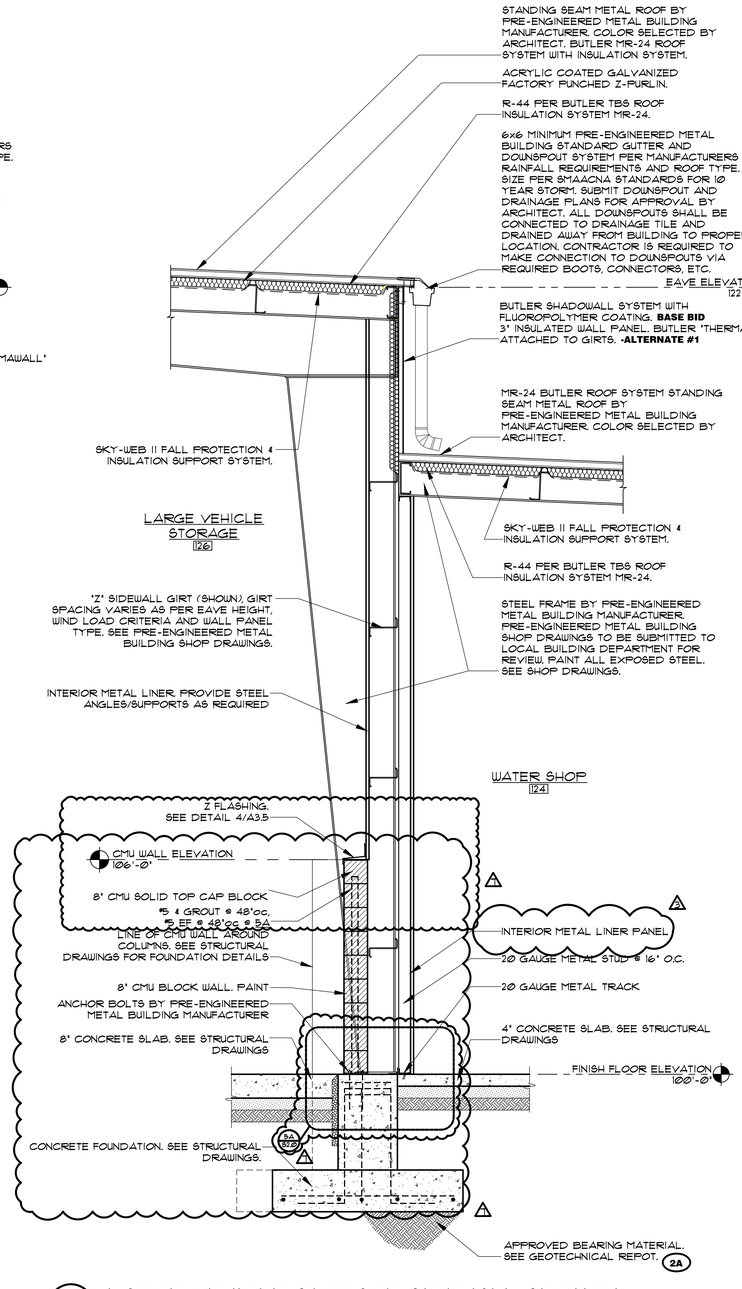
B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

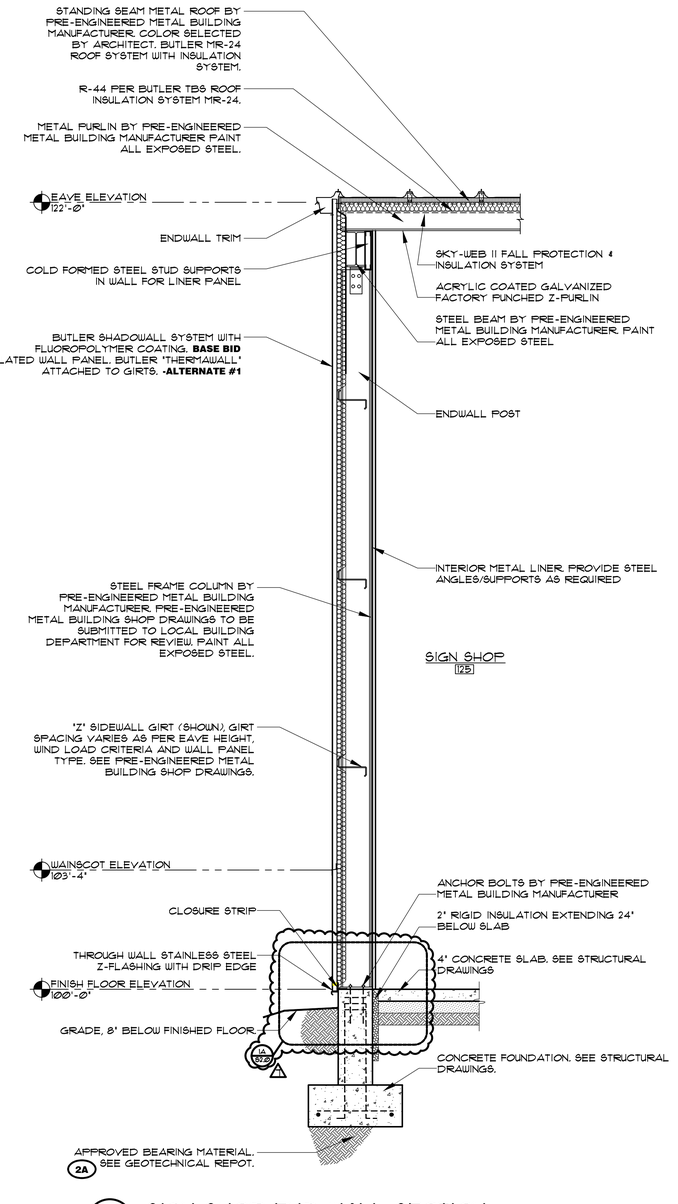
D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.



1 A3.3 **EQUIPMENT STORAGE SIDEWALL SECTION**
SCALE: 1/2"=1'-0"



2 A3.3 **LARGE VEHICLE STORAGE SIDEWALL SECTION**
SCALE: 1/2"=1'-0"



3 A3.3 **SIGN SHOP END WALL SECTION**
SCALE: 1/2"=1'-0"

COPYRIGHT © 2026
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

WDC GROUP
23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
info@wdc-group.com

REVISIONS:
1 06-09-2026
2 06-29-2026

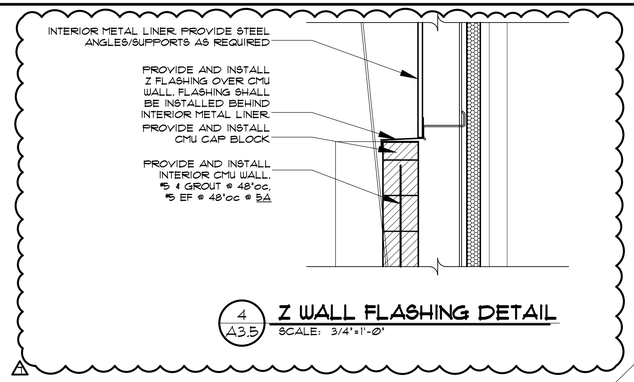
STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT
CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia ohio
small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
WALL SECTIONS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

A3.3
49 OF 112



4 / A3.5 **Z WALL FLASHING DETAIL**
SCALE: 3/4"=1'-0"

GENERAL NOTES:

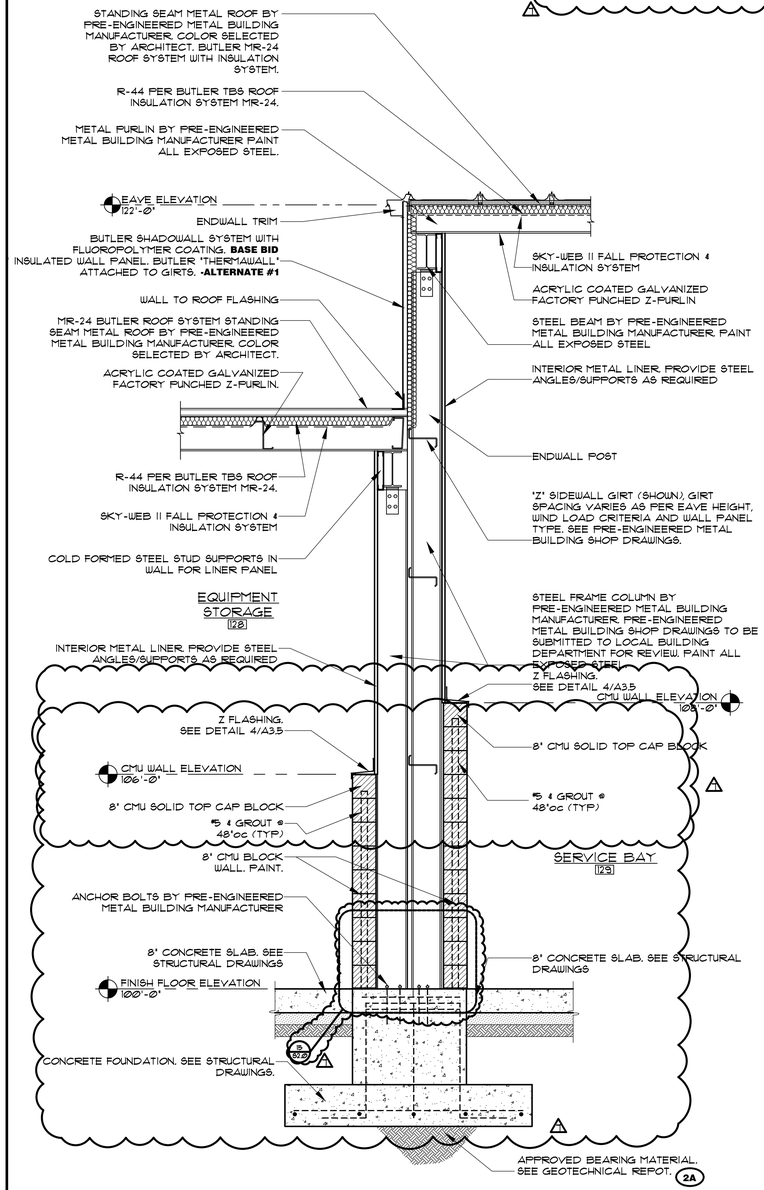
A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

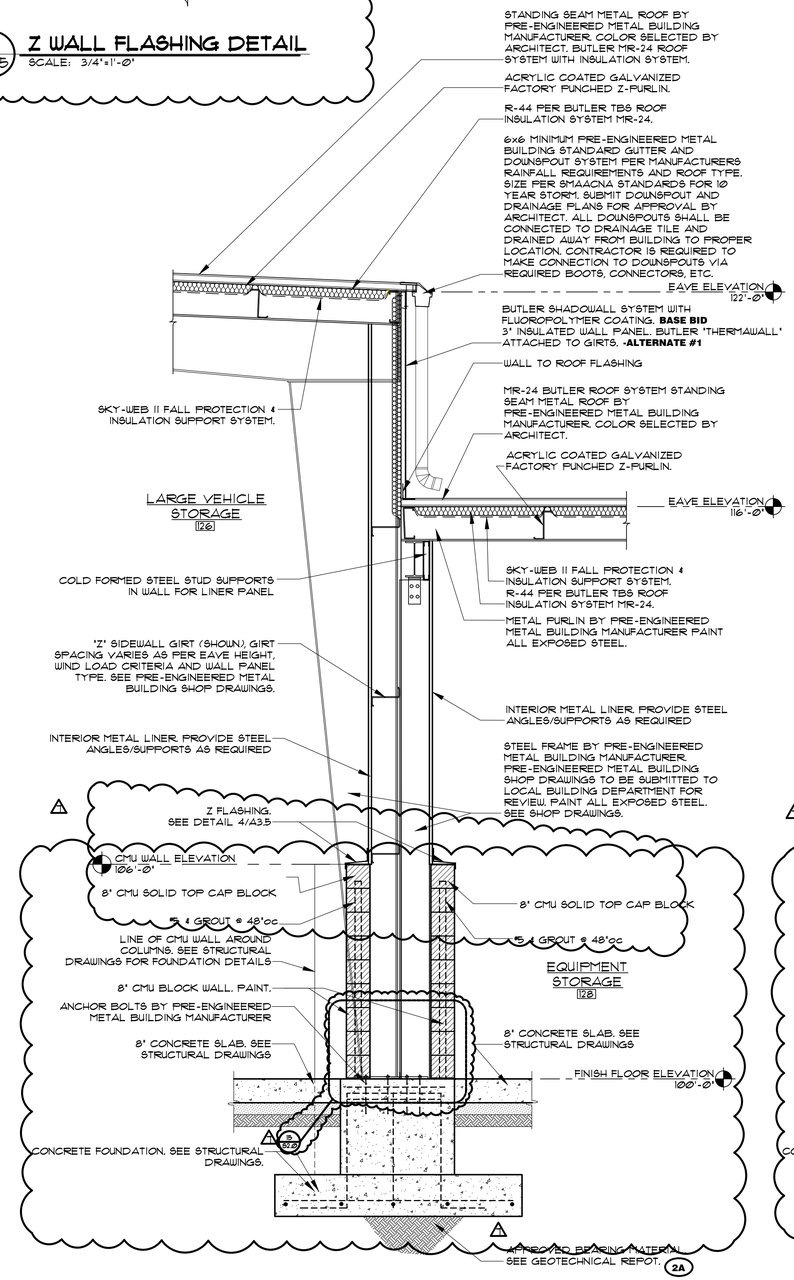
C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS

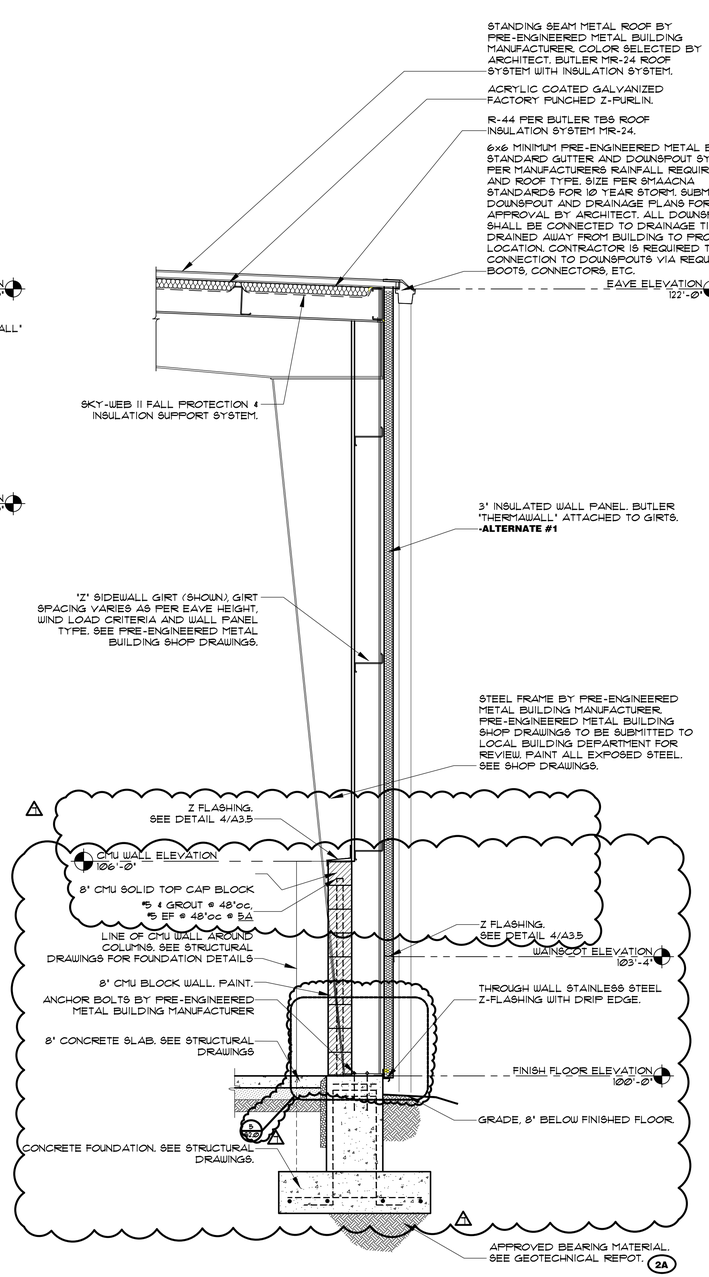
E. EACH CONTRACTOR IS RESPONSIBLE FOR SEAL OFFS AND FIRE CAULKING AND CONDUITS THROUGH WALLS.



1 / A3.5 **WALL SECTION**
SCALE: 1/2"=1'-0"



2 / A3.5 **WALL SECTION**
SCALE: 1/2"=1'-0"



3 / A3.5 **TYPICAL WALL SECTION WITH BLOCK ALTERNATE #1**
SCALE: 1/2"=1'-0"

ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

COPYRIGHT © 2026
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

WDC GROUP
23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
info@wdc-group.com

REVISIONS:
1 06-29-2026

STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377

WALL SECTIONS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

A3.5
51 OF 112

DOOR SCHEDULE

DOOR NUMBER	SIZE WIDTH	SIZE HEIGHT	SIZE RATING	HARDWARE SET	DOOR MATERIAL	JAMB DETAIL	SILL DETAIL	HEAD MATERIAL	HEAD DETAIL	NOTE *	REMARKS
1	3'-0"	7'-0"		HG	STL	1			HM	2,3,4,15	EXTERIOR DOOR/ACCESS CONTROL
2	3'-0"	7'-0"		NL	STL	2			HM	2,3,4,15	EXTERIOR DOOR/ACCESS CONTROL
8A	16'-0"	16'-0"		A	STL					4	OVERHEAD DOOR
4	3'-0"	7'-0"		NL	STL	2			HM	2,3,4,5,16	EXTERIOR DOOR/ACCESS CONTROL
8A	14'-0"	14'-0"		B	STL					4	OVERHEAD DOOR
8A	14'-0"	14'-0"		B	STL					4	OVERHEAD DOOR
8A	14'-0"	14'-0"		B	STL					4	OVERHEAD DOOR
8A	14'-0"	14'-0"		B	STL					4	OVERHEAD DOOR
9	3'-0"	7'-0"		NL	STL	2			HM	2,3,4,5,16	EXTERIOR DOOR/ACCESS CONTROL
10											NOT USED
8A	14'-0"	14'-0"		B	STL					4	OVERHEAD DOOR
12	3'-0"	7'-0"		NL	STL	3			HM	2,3,4,5,16	EXTERIOR DOOR/ACCESS CONTROL
13	3'-0"	7'-0"		NL	STL	3			HM	2,3,4,5,16	EXTERIOR DOOR/ACCESS CONTROL
8A	14'-0"	14'-0"		B	STL					4	OVERHEAD DOOR
8A	14'-0"	7'-0"		C	STL					4	OVERHEAD DOOR
16	3'-0"	7'-0"		NL	STL	2			HM	2,3,4,5,16	EXTERIOR DOOR/ACCESS CONTROL
8A	14'-0"	14'-0"		B	STL					4	OVERHEAD DOOR
8A	14'-0"	14'-0"		B	STL					4	OVERHEAD DOOR
8A	14'-0"	14'-0"		B	STL					4	OVERHEAD DOOR
20	3'-0"	7'-0"		NL	STL	2			HM	2,3,4,5,16	EXTERIOR DOOR/ACCESS CONTROL
8A	14'-0"	14'-0"		B	STL					4	OVERHEAD DOOR
22	3'-0"	7'-0"		NL	STL	2			HM	2,3,4,5,16	EXTERIOR DOOR/ACCESS CONTROL
8A	16'-0"	16'-0"		A	STL					4	OVERHEAD DOOR
8A	10'-0"	7'-0"		D	STL					4	OVERHEAD DOOR
8A	12'-0"	13'-0"		E	STL					4	OVERHEAD DOOR/REMOTE OPENER
26	3'-0"	7'-0"		NL	STL	3			HM	2,3,4,5,16	EXTERIOR DOOR/ACCESS CONTROL
8A	10'-0"	9'-0"		G	STL					4	OVERHEAD DOOR/REMOTE OPENER
28	3'-0"	7'-0"		NL	STL	3			HM	2,3,4,5,16	EXTERIOR DOOR/ACCESS CONTROL
29	3'-0"	7'-0"		HG	STL	2			HM	2,3,4,5,16	EXTERIOR DOOR/ACCESS CONTROL
30	3'-0"	7'-0"		F	STL	8			HM	4	
31	3'-0"	7'-0"		NL	STL	4			HM	4,16	ACCESS CONTROL
32	3'-0"	7'-0"		NL	STL	5			HM	4,16	ACCESS CONTROL
33	3'-0"	7'-0"		NL	STL	9			HM	4	
34	3'-0"	7'-0"		NL	STL	9			HM	4	
35	3'-0"	7'-0"		NL	STL	11			HM	4	
36	3'-0"	7'-0"		NL	STL	14			HM	4	
37	3'-0"	7'-0"		F	STL	13			HM	4	
38	3'-0"	7'-0"		NL	STL	11			HM	4	
39	3'-0"	7'-0"		NL	STL	11			HM	4	
40	3'-0"	7'-0"		NL	STL	11			HM	4	
41	3'-0"	7'-0"		F	STL	12			HM	4	
42	3'-0"	7'-0"		NL	STL	11			HM	4	
43	3'-0"	7'-0"		NL	STL	11			HM	4	
44	3'-0"	7'-0"		NL	STL	12			HM	4	
45	3'-0"	7'-0"		F	STL	13			HM	4	
46	3'-0"	7'-0"		F	STL	12			HM	4	
47	3'-0"	7'-0"		F	STL	8			HM	4	
48	3'-0"	7'-0"		F	STL	12			HM	4	
49	3'-0"	7'-0"		F	STL	13			HM	4	
50	3'-0"	7'-0"		F	STL	12			HM	4	
51	3'-0"	7'-0"		F	STL	16			HM	4	
52	3'-0"	7'-0"		F	STL	16			HM	4	
53	3'-0"	7'-0"		NL	STL	16			HM	4	
54	3'-0"	7'-0"		F	STL	12			HM	4	
55	3'-0"	7'-0"		F	STL	12			HM	4	
56	3'-0"	7'-0"		F	STL	6			HM	4	
57	3'-0"	7'-0"		NL	STL	17			HM	4	
58	3'-0"	7'-0"		NL	STL	18			HM	4	
59	3'-0"	7'-0"		NL	STL	17			HM	4	
60	3'-0"	7'-0"		NL	STL	17			HM	4	
61	3'-0"	7'-0"		NL	STL	18			HM	4	
62	3'-0"	7'-0"		NL	STL	18			HM	4	
63	6'-0"	7'-0"		F	STL	20			HM	4	
64	3'-0"	7'-0"		NL	STL	6			HM	4	
65	3'-0"	7'-0"		NL	STL	21			HM	4	
66	3'-0"	7'-0"		NL	STL	21			HM	4	
67	3'-0"	7'-0"		NL	STL	21			HM	4	
68	6'-0"	7'-0"		F	STL	15			HM	4	
69	6'-0"	7'-0"		F	STL	15			HM	4	
70	6'-0"	7'-0"		F	STL	10			HM	4	

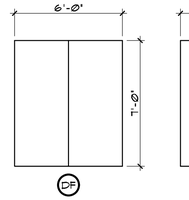
DOOR SCHEDULE

DOOR NUMBER	SIZE WIDTH	SIZE HEIGHT	SIZE RATING	DOOR TYPE	HARDWARE SET	JAMB DETAIL	SILL DETAIL	HEAD MATERIAL	HEAD DETAIL	NOTE *	REMARKS
71	3'-0"	7'-0"		NL	STL	12			HM	4	
72	3'-0"	7'-0"		NL	STL	12			HM	4	
73	3'-0"	7'-0"		NL	STL	7			HM	4	

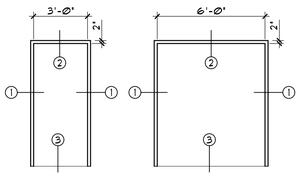
FG = FULL GLASS, TEMPERED 1/4"
HG = HALF GLASS, TEMPERED 1/4"
HM = HOLLOW METAL
NOT ARE CABLE
STL = STEEL
SCW = SOLID CORE WOOD
F = FLUSH
NL = NARROW LITE
AL = ALUMINUM STOREFRONT

NOTES:

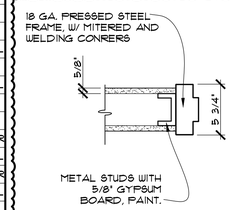
1. ALL DOORS & DOOR FRAMES SHALL BE CAULKED INTERIOR & EXTERIOR SIDE OPENING.
2. ALL EXTERIOR DOORS TO INCLUDE 3M RIOT GLASS FILM.
3. ALL EXTERIOR DOORS & FRAMES TO ALLOW FOR INSTALLATION OF ACCESS CONTROL DOOR STRIKE SWITCH & ROUGH IN FOR CARD READER & ELECTRONIC LOCK FOR ALL EXTERIOR MAN DOORS.
4. ALL HOLLOW METAL DOORS AND FRAMES SHALL BE FACTORY-PRIMED AND FIELD-PAINTED PER SPECIFICATION. OVERHEAD DOORS SHALL BE FACTORY-FINISHED WITH THE MANUFACTURER'S STANDARD PAINT SYSTEM. THE CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S STANDARD COLOR SELECTIONS FOR ALL PAINTED DOORS. FINAL COLOR SELECTIONS SHALL BE MADE BY THE OWNER AND ARCHITECT PRIOR TO MATERIAL ORDERING.
5. 16A CONTRACTOR TO PROVIDE AND INSTALL A DEDICATED 120V POWER SUPPLY. 17A, 17B, AND 17C TO PROVIDE AND INSTALL ALL REQUIRED WIRING, CONDUIT, CONNECTIONS, AND ACCESSORIES NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION FOR ACCESS CONTROL.
6. POWER SUPPLY BY 17A CONTRACTOR.



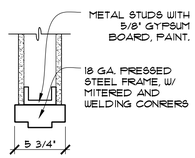
A A8.1 **DOOR TYPES** SCALE: N.T.S.



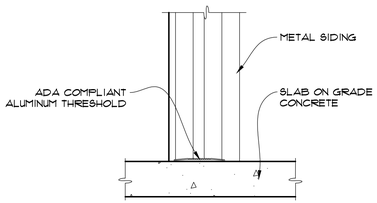
B A8.1 **FRAME TYPES** SCALE: N.T.S.



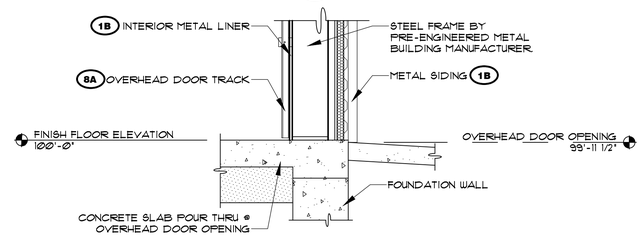
1 A8.1 **JAMB** SCALE: N.T.S.



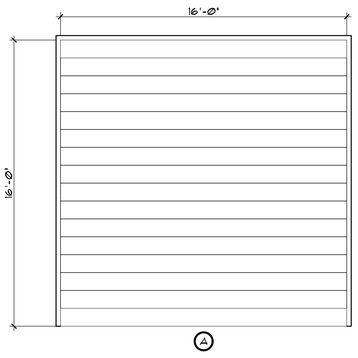
2 A8.1 **HEAD** SCALE: N.T.S.



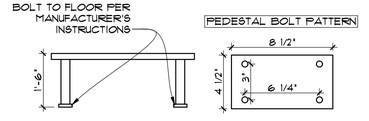
3 A8.1 **SILL** SCALE: N.T.S.



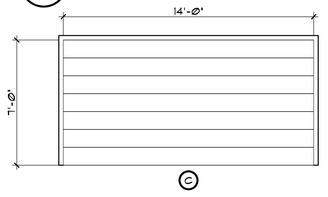
4 A8.1 **OVERHEAD DOOR @ SLAB DETAIL** SCALE: 3/4" = 1'-0"

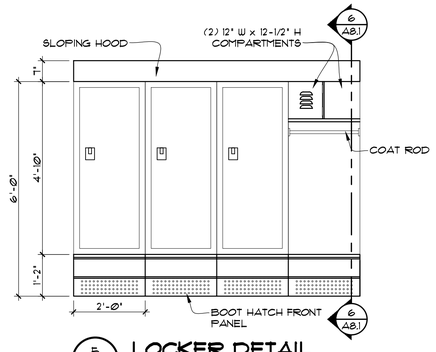


C A8.1 **OVERHEAD DOOR TYPES** SCALE: 1/4"=1'-0"

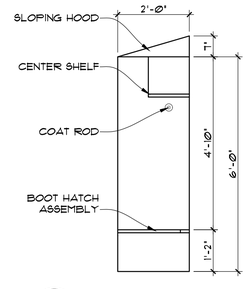


7 A8.1 **BENCH DETAILS** SCALE: N.T.S.





5 A8.1 **LOCKER DETAIL** SCALE: 1/2" = 1'-0"



6 A8.1 **LOCKER SECTION** SCALE: 1/2" = 1'-0"

ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

WDC GROUP
23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
info@wdc-group.com

REVISIONS:
1 06-25-2026
2 06-29-2026

STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia small city. big opportunity.

A NEW PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
818 NORTHWOODS BLVD
VANDALIA, OHIO 45377

DOOR SCHEDULES & DETAILS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

A8.1
63 OF 112

COPYRIGHT © 2026
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

\\192.168.30.10\Public\PROJECTS\23014 Vandalia Public Works\DWGs\Sheets\A8.1 Vandalia_Public_Works.dwg, 6/29/2026 8:42:48 AM, , AutoCAD PDF (General Documentation).pc3

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL NORTH FINISH	WALL NORTH MATERIAL	WALL SOUTH FINISH	WALL SOUTH MATERIAL	WALL EAST FINISH	WALL EAST MATERIAL	WALL WEST FINISH	WALL WEST MATERIAL	CEILING MATERIAL	CEILING HEIGHT
101	VEST	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
102	ADMINISTRATOR	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
103	UNISEX RESTROOM	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
104	CONFERENCE	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
105	BREAK ROOM	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
106	MECHANICAL	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
107	ASSISTANT SUPERINTENDENT	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
108	SUPERINTENDENT	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
109	SUPERVISOR	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
110	CORRIDOR	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
111	WOMEN'S RESTROOM	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
112	WOMEN'S LOCKERS	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
113	WOMEN'S SHOWERS	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
114	STORAGE	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
115	OFFICE	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
116	SUPERVISOR	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
117	MEN'S RESTROOM	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
118	JANITOR'S CLOSET	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	GYP	12'-3"
119	MUDROOM	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
120	MEN'S LOCKER ROOM	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
121	MECHANICAL / IT	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	EXP	17'-11"
122	CORRIDOR	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
123	MEN'S SHOWERS	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
124	WATER SHOP	CON	VCB		MTL		MTL		MTL		MTL	EXP	17'-11"
125	SIGN SHOP	CON	VCB		MTL		MTL		MTL		MTL	EXP	17'-11"
126	STORAGE	CON	VCB	PNT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	EXP	7'-10"
127	LARGE VEHICLE STORAGE	CON	VCB	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	EXP	30'-0"
128	EQUIPMENT STORAGE	CON	VCB	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	EXP	18'-6"
129	SERVICE BAY	CON	VCB	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	EXP	22'-0"
130	OFFICE	CON	VCB	PNT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	SAT	8'-0"
131	UNISEX RESTROOM	CON	VCB	FRP	CMU	FRP	CMU	FRP	CMU	FRP	CMU	SAT	8'-0"
132	UNISEX RESTROOM	CON	VCB	FRP	CMU	FRP	CMU	FRP	CMU	FRP	CMU	SAT	8'-0"
133	HALL	CON	VCB	PNT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	EXP	8'-0"
134	TOOLS	CON	VCB	PNT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	EXP	8'-0"
135	DRUM MATERIAL STORAGE	CON	VCB	PNT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	EXP	8'-0"
136	WASH BAY	CON	VCB	FNT	CMU	FNT	CMU	FNT	CMU	FNT	CMU	EXP	22'-0"
201	MEZZANINE	CON	VCB			FNT	CMU	FNT	CMU	FNT	CMU	EXP	13'-6"
202	MEZZANINE	CON	VCB		MTL				MTL			EXP	13'-6"

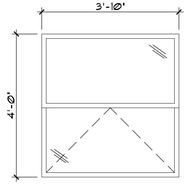
NOTES:
SAT - SUSPENDED ACOUSTICAL TILE
PNT - PAINT
VCB - VINYL COVE BASE
GYP - GYPSUM BOARD
MTL - METAL LINER
CON - CONCRETE, SEALED
CMU - CONCRETE MASONRY UNIT
EXP - EXPOSED, PAINTED
FRP - FIBERGLASS REINFORCED PLASTIC

WINDOW SCHEDULE

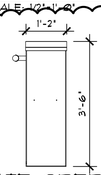
WINDOW LETTER	SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	FRAME TYPE	GLASS	MATERIAL	COLOR	REMARKS
A	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
B	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
C	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
D	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
E	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
F	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
G	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
H	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
I	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
J	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
K	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS

VNL - VINYL
HP - HIGH PERFORMANCE LOW 'E'
DH - DOUBLE HUNG WINDOW
TBS - TO BE SELECTED
SL - SLIDING
HM - HOLLOW METAL
F - FIXED WINDOW

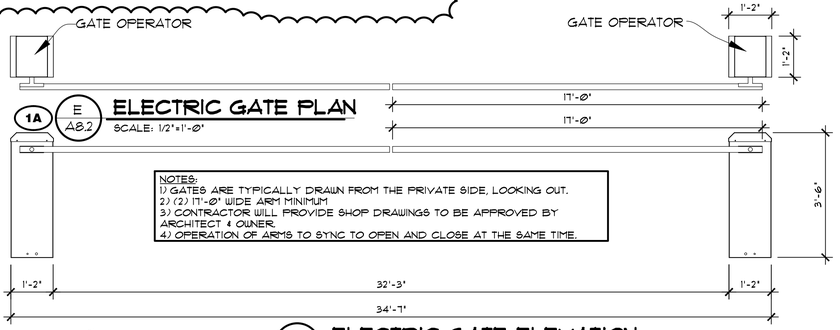
NOTES:
1. ALL WINDOWS ARE OPERABLE
2. ALL EXTERIOR WINDOWS TO INCLUDE 3M RIOT GLASS FILM



1 A A8.2 WINDOW TYPES
SCALE: 1/2"=1'-0"

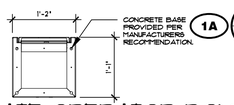


1A H A8.2 GATE OPERATOR SIDE VIEW
SCALE: 1/2"=1'-0"

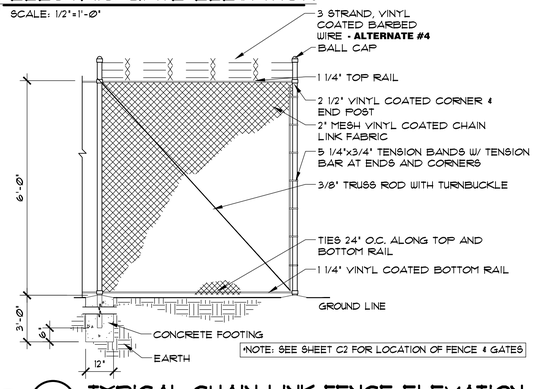


1A E A8.2 ELECTRIC GATE PLAN
SCALE: 1/2"=1'-0"

NOTES:
1) GATES ARE TYPICALLY DRAWN FROM THE PRIVATE SIDE, LOOKING OUT.
2) (2) 17'-0" WIDE ARM MINIMUM
3) CONTRACTOR WILL PROVIDE SHOP DRAWINGS TO BE APPROVED BY ARCHITECT & OWNER.
4) OPERATION OF ARMS TO SYNC TO OPEN AND CLOSE AT THE SAME TIME.



1A G A8.2 GATE OPERATOR BOX
SCALE: 3/4"=1'-0"



*NOTE: SEE SHEET C2 FOR LOCATION OF FENCE & GATES

2A D A8.2 TYPICAL CHAIN LINK FENCE ELEVATION
SCALE: 1/2"=1'-0"

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

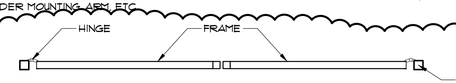
B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

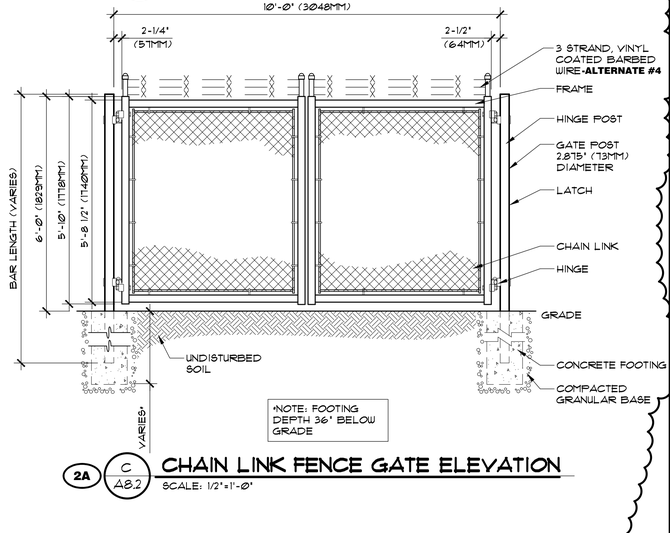
D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

E. ALL CHAIN LINK GATES & FENCES SHALL BE VINYL COATED.

F. 1A CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF DOOR ACCESS CONTROL, DETECTION LOOPS, GATE CARD READER MOUNTING ARM, ETC.

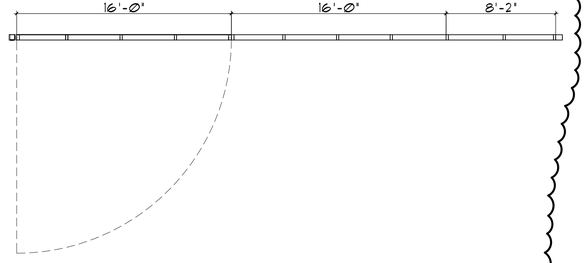


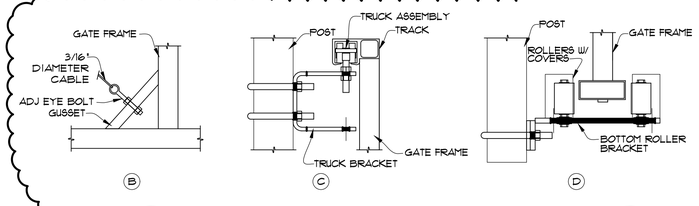
2A B A8.2 CHAIN LINK FENCE GATE PLAN
SCALE: 1/2"=1'-0"



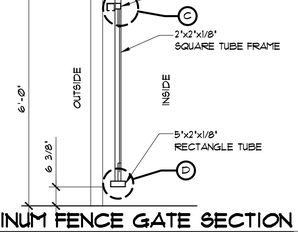
*NOTE: FOOTING DEPTH 36" BELOW GRADE

2A C A8.2 CHAIN LINK FENCE GATE ELEVATION
SCALE: 1/2"=1'-0"



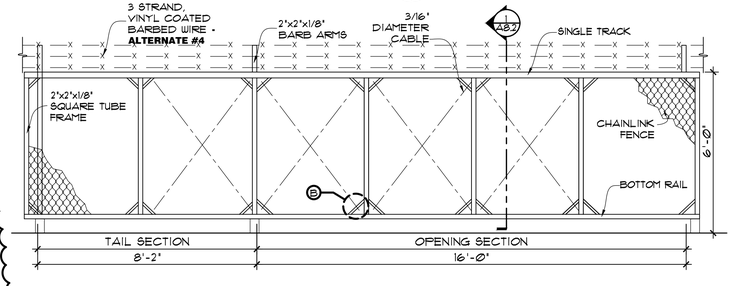


2A 2 A8.2 ALUMINUM FENCE GATE DETAILS
SCALE: 1/2"=1'-0"

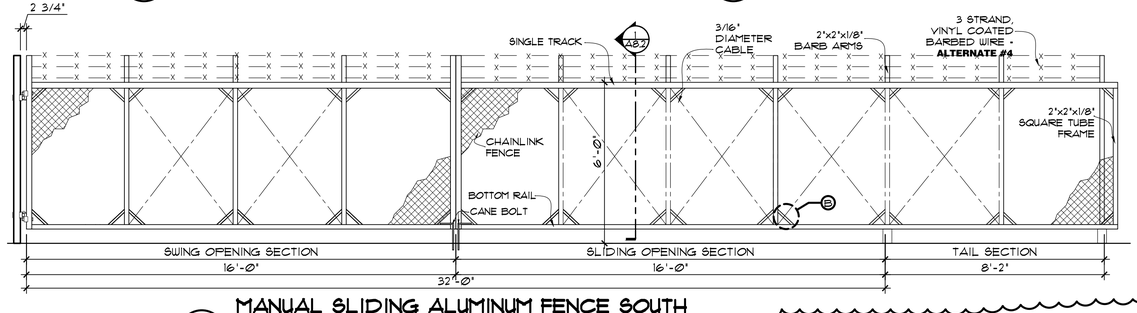


2A 1 A8.2 ALUMINUM FENCE GATE SECTION
SCALE: 1/2"=1'-0"

2A K A8.2 MANUAL SLIDING ALUMINUM FENCE SOUTH ENTRANCE PLAN
SCALE: 3/16"=1'-0"



2A J A8.2 OPERATOR POWERED SLIDING ALUMINUM FENCE GATE ELEVATION
SCALE: 3/8"=1'-0"



2A K A8.2 MANUAL SLIDING ALUMINUM FENCE SOUTH ENTRANCE ELEVATION
SCALE: 3/8"=1'-0"

COPYRIGHT © 2026
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

WDC GROUP
23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
info@wdc-group.com

REVISIONS:
1 06-25-2026
2 06-29-2026

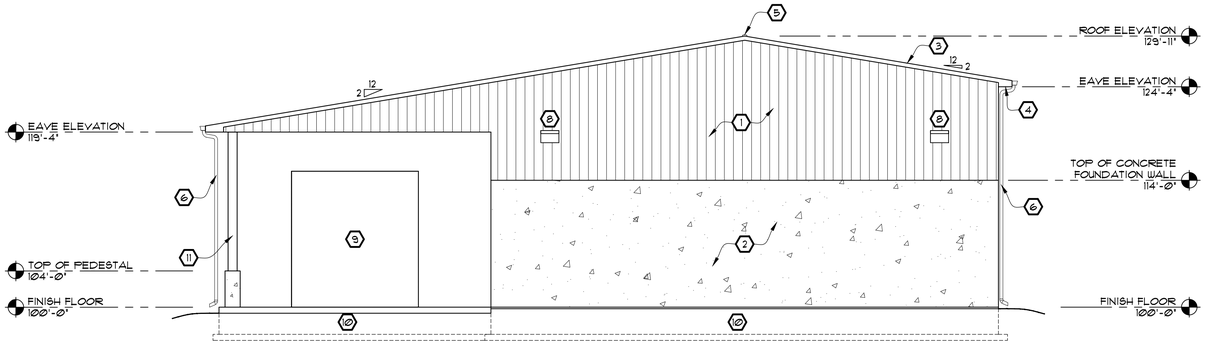
STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT
CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia ohio
small city, big opportunity.

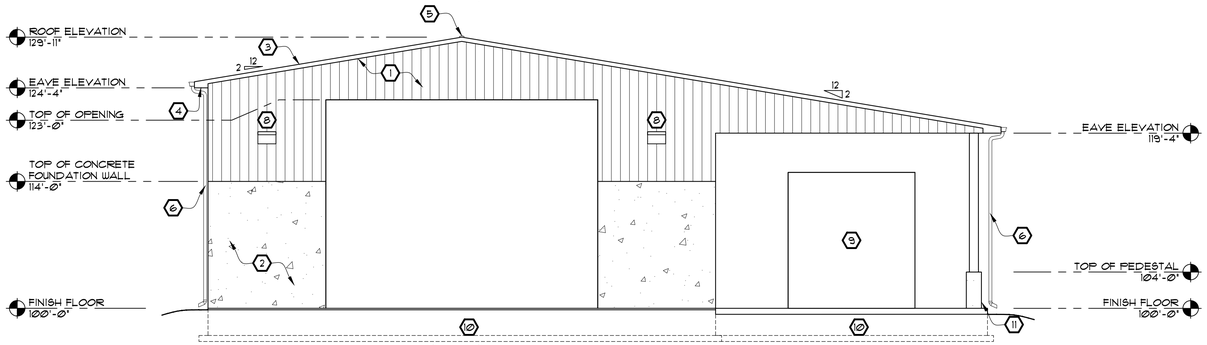
A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
830 NORTHWOODS BLVD
VANDALIA, OHIO 45377
DOOR, WINDOW & ROOM FINISH SCHEDULES

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

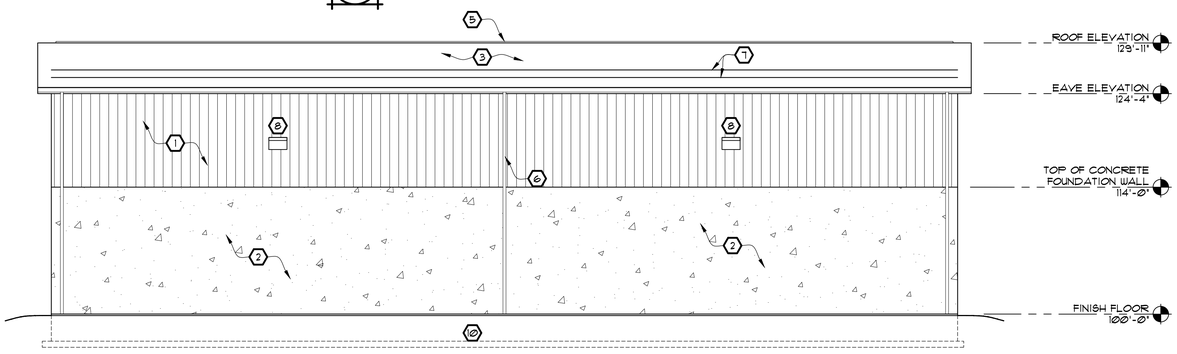
A8.2
64 OF 112



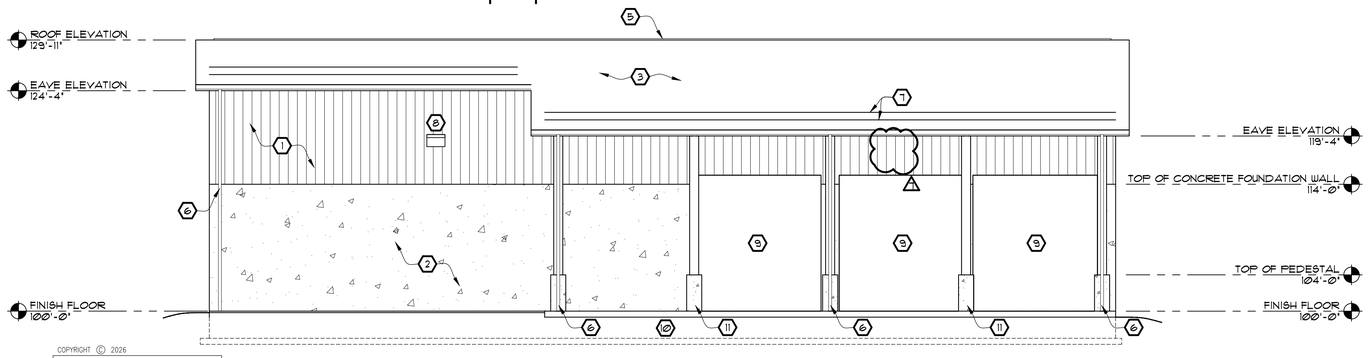
4 A10 **WEST ELEVATION**
SCALE: 1/8"=1'-0"



5 A10 **EAST ELEVATION**
SCALE: 1/8"=1'-0"



2 A10 **NORTH ELEVATION**
SCALE: 1/8"=1'-0"



3 A10 **SOUTH ELEVATION**
SCALE: 1/8"=1'-0"

COPYRIGHT © 2026
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS

D. GW&L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS PRIOR TO MECHANICAL AND ELECTRICAL ROUGH-IN.

E. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

F. ALL CONNECTIONS BOLTS, WASHER, ANCHORS, ETC. WILL BE STAINLESS STEEL. THIS IS TO INCLUDE ALL CONNECTIONS ON TRUSS SYSTEM.

CODED NOTES:

1. INSTALL EXPOSED FASTENER SIDING & TRIM OVER 5/8" EXTERIOR OSB TO MATCH MAIN BUILDING.
2. 18"x14'-0" CONCRETE RETAINING WALL. SEE STRUCTURAL SHEET S3.1 FOR DETAILS.
3. EXPOSED METAL FASTENER ROOF.
4. INSTALL STAINLESS STEAL SOFFIT WITH FLAT PROFILE TO UNDERSIDE OF STRUCTURE. COLOR CHOSEN BY ARCHITECT.
5. CONTINUOUS VENTED RIDGE. CAP ENDS PER MANUFACTURER'S INSTRUCTIONS.
6. 6" CONTINUOUS ALUMINUM GUTTERS AND DOWN SPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWN SPOUT AND DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWN SPOUTS SHALL BE CONNECTED TO DRAINAGE TILE AND DRAINED AWAY FROM BUILDING TO PROPER LOCATION. DOWNSPOUTS SHOULD BE EXTENDED 6' BELOW THE FINISHED FLOOR SITE CONTRACTOR IS REQUIRED TO MAKE CONNECTION TO DOWNSPOUTS VIA REQUIRED BOOTS, CONNECTORS, ETC.
7. INSTALL CONTINUOUS METAL ICE GUARD AT SPECIFIED LOCATIONS.
8. (16A) INSTALL EXTERIOR LIGHTING FIXTURE. SEE SHEET ELECTRICAL DRAWINGS.
9. TANKS TO BE PROVIDED BY OWNER, WIRING + SWITCH TO BE COORDINATED WITH THE CITY
10. CONCRETE FOUNDATION. SEE STRUCTURAL DRAWINGS.
11. EXTERIOR PRESSURE TREATED 12"x12" WOOD COLUMNS ATTACHED TO EXTENDED CONCRETE FOUNDATION COLUMN. SEE STRUCTURAL SHEET S3.1 FOR DETAILS.

ALL WORK ON THIS SHEET BY (1A) UNLESS OTHERWISE NOTED.

SALT STORAGE STRUCTURE

WDC GROUP
23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
info@wdc-group.com

REVISIONS:
1 06-29-2026

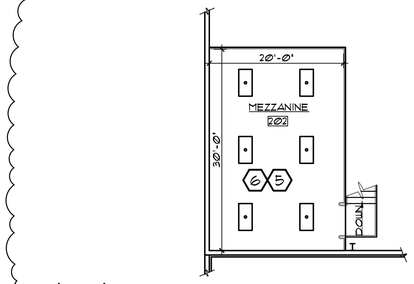
STATE OF OHIO
CHRISTOPHER R WIDENER
REGISTERED ARCHITECT
CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia small city, big opportunity.

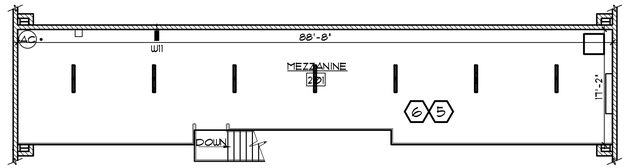
A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOOD BLVD
VANDALIA, OHIO 45377
SALT STORAGE STRUCTURE,
EXTERIOR ELEVATIONS

PROJECT NO: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

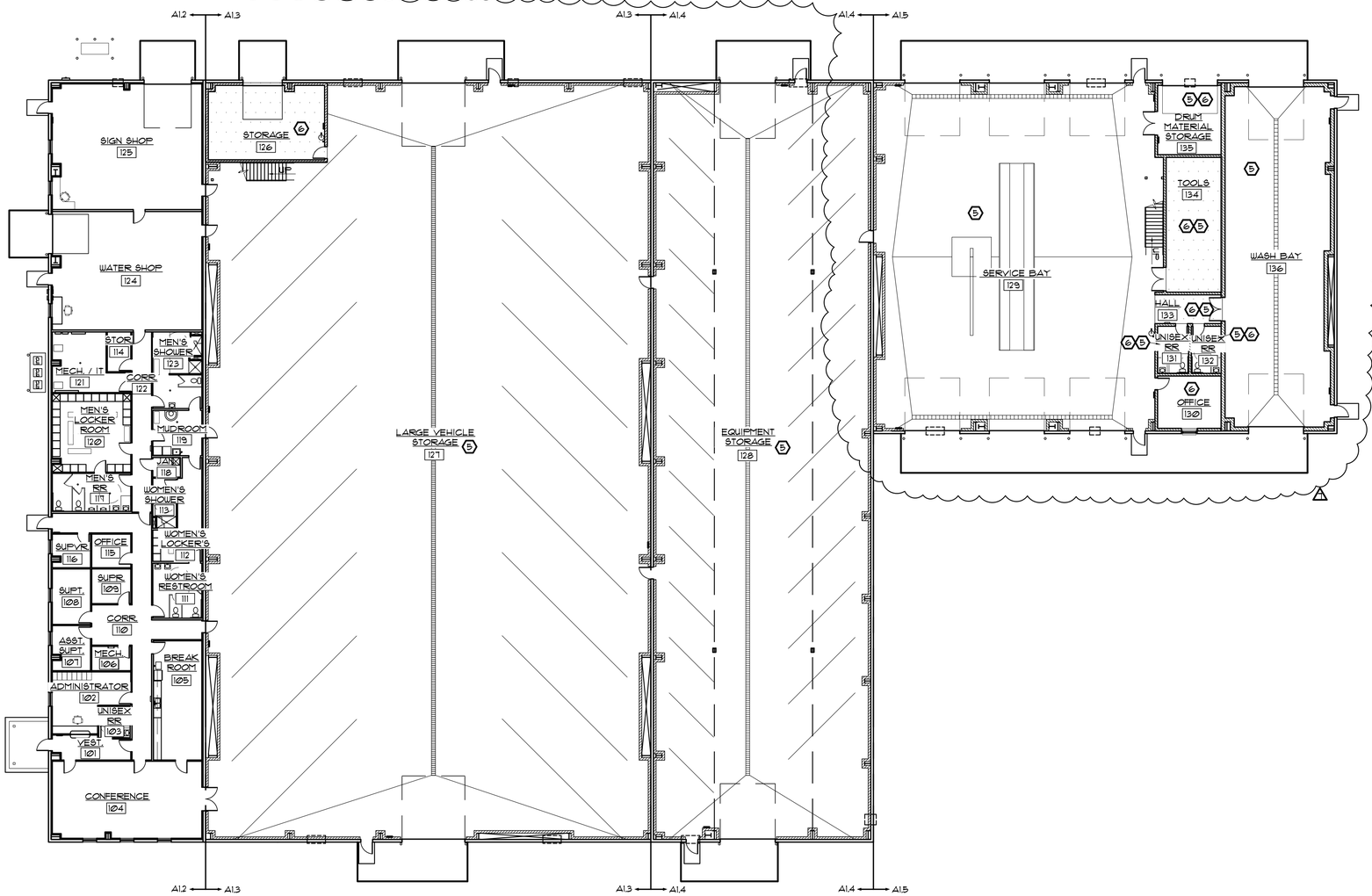
A10
66 OF 112



FIRE PROTECTION ROOM #202 PLAN
SCALE: 3/32"=1'-0"



FIRE PROTECTION ROOM #201 PLAN
SCALE: 3/32"=1'-0"



FIRE PROTECTION PLAN
SCALE: 1/16"=1'-0"

GENERAL NOTES:

A. ALL FIRE PROTECTION EQUIPMENT ESSENTIAL TO SUCCESSFUL SYSTEM OPERATION SHALL BE UL LISTED FOR FIRE PROTECTION SERVICE.

B. ALL ABOVE GROUND FIRE PROTECTION SYSTEMS SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS WITH NO VISIBLE LEAKAGE. ALL CONCEALED PIPING SHALL BE AIR TESTED, WITH NO LEAKAGE, PRIOR TO FILLING SYSTEM WITH WATER. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ALL AUTHORITIES HAVING JURISDICTION 24 HOURS PRIOR TO THE TEST. THE ARCHITECT SHALL WITNESS ALL TESTS.

C. ALL VALVES CONTROLLING WATER SUPPLIES SHALL BE PROVIDED WITH TAMPER SWITCHES.

D. THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED BY AN APPROVED CENTRAL STATION, PROPRIETARY STATION, OR REMOTE STATION MONITORING SYSTEM IN ACCORDANCE WITH O.B.C. AND N.F.P.A. 72.

E. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE WIRING OF ALL ELECTRICAL FIRE PROTECTION DEVICES AND EQUIPMENT WITH THE ELECTRICAL CONTRACTOR. ALL DEVICES SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR.

F. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE FIRE PROTECTION SYSTEM WITH THE ARCHITECT ALL TRADES PRIOR TO INSTALLATION.

G. THE FIRE PROTECTION CONTRACTOR SHALL CENTER (WITHIN 1") ALL PENDENT SPRINKLER HEADS INSTALLED IN ACOUSTICAL LAY-IN CEILING TILES. ALL PENDENT SPRINKLER HEADS IN CEILINGS SHALL BE SYMMETRICAL WITH LIGHTING AND AIR DEVICES.

H. THE LOCATION OF EXTERIOR FIRE PROTECTION EQUIPMENT SUCH AS FIRE DEPARTMENT CONNECTIONS, TEST DRAINS, ETC., SHALL BE COORDINATED WITH THE ARCHITECT AND APPROVED BY THE LOCAL FIRE DEPARTMENT.

I. FINAL APPROVAL IS SUBJECT TO ACCEPTANCE AND TESTING BY ALL AUTHORITIES HAVING JURISDICTION.

J. PROVIDE KNOX BOXES PER LOCAL FIRE DEPARTMENT REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS, QUANTITIES AND LOCATIONS.

K. ALL PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES.

L. PREP ALL EXPOSED PIPING, ETC FOR PAINTING.

M. ROUTE ALL PIPING TIGHT TO STRUCTURE.

N. THE AUTOMATIC SPRINKLER SYSTEM MUST BE MONITORED FOR WATERFLOW AND SUPERVISORY SIGNALS UNDER OBC 903.4. SPRINKLER SYSTEM TO BE CONNECTED TO AN APPROVED FIRE ALARM SYSTEM THAT PROVIDES AUDIBLE AND VISUAL ALARM SIGNALS AND SUPERVISORY NOTIFICATION.

O. DUCT-TYPE SMOKE DETECTORS ARE REQUIRED IN AIR-HANDLING SYSTEMS EXCEEDING 2000 CFM PER OBC 606. THESE DETECTORS MUST INITIATE A SUPERVISORY SIGNAL OR ACTIVATE THE BUILDING FIRE ALARM IF ONE IS INSTALLED.

P. DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS OR HOLD-OPEN DEVICES MUST AUTOMATICALLY RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEMS OR LOSS OF POWER PER OBC 716 AND NFPA 72.

CODED NOTES:

1. PROVIDE OBC & NFPA COMPLIANT AUTOMATIC SPRINKLER SYSTEM FOR THE ENTIRE BUILDING IN ACCORDANCE WITH HAZARD GROUP DESIGN CRITERIA REQUIRED BY CODE.
2. PROVIDE AND COORDINATE LOCATION OF SPRINKLER HEAD ABOVE ALL EQUIPMENT & OBSTRUCTIONS.
3. ~~ALL SPRINKLER SHALL BE EXPOSED ON WALL AT LOCATED AS CLOSE TO CEILING AS POSSIBLE. SPRINKLER HEAD SHALL BE SIDE WALL TYPE.~~ (1A)
4. ALL SPRINKLER PIPING SHALL BE PAINTED TO MATCH ROOM/AREA. SPRINKLER CONTRACTOR SHALL PROVIDE AND INSTALL COVERS FOR ALL SPRINKLER HEADS.
5. ALL SPRINKLER HEADS SHALL BE WHITE, COVERED HEADS. (WIRE CAGE PROTECTION REQUIRED WITH ROOMS 127, 128, 129, 131, 132, 133, 134, 135, 136, 201, & 202.)
6. PROVIDE SPRINKLERS ABOVE & BELOW MEZZANINE (126, 130, 131, 132, 133, 134, 135, 201, & 202.) AS REQUIRED BY APPLICABLE CODES.
7. (2A) (15A) THE SITE CONTRACTOR SHALL EXTEND (AT MINIMUM OF 54" BELOW FINISH GRADE) A 8" DIAMETER COMBINATION FIRE, AND DOMESTIC SERVICE MAIN FROM THE LOCATION SHOWN ON THE CIVIL SHEET C3, INTO THE BUILDING AT THIS LOCATION. THE SERVICE CONNECTION SHALL EXTEND UP ABOVE FINISHED FLOOR AND BE CAP FOR FUTURE CONNECTION. THE SITE CONTRACTOR SHALL ALSO PROVIDE A 3" DOMESTIC WATER SERVICE TAP CAPPED AT 24" ABOVE FINISHED FLOOR FOR FUTURE CONNECTION. THE SITE CONTRACTOR SHALL CLOSELY COORDINATE THE LOCATION OF THE COMBINATION 8" RISER WITH THE BUILDING SPRINKLER, AND PLUMBING CONTRACTORS PRIOR TO START OF ANY WORK. THE BUILDING SPRINKLER CONTRACTOR SHALL PROVIDE A FREE STANDING POST INDICATING VALVE AND HYDRANT TO THE SITE CONTRACTOR FOR INSTALLATION. VERIFY TYPE, FINISH AND LOCATION WITH ALL AUTHORITIES HAVING JURISDICTION. SEE THE SITE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. SEE C5.
8. PROVIDE FIRE DEPARTMENT CONNECTION AT THIS LOCATION. VERIFY TYPE, FINISH AND LOCATION WITH AUTHORITIES HAVING JURISDICTION. FIRE DEPARTMENT CONNECTION TO HAVE 4" STORZ FIRE DEPARTMENT CONNECTION.

THIS WORK IS A DELEGATED DESIGN BY A LICENSED SPRINKLER DESIGNER. PROVIDE DESIGNED & SEALED DRAWINGS FOR BUILDING DEPARTMENT, FOR SEPARATE PERMIT.

ALL WORK ON THIS SHEET BY (1A) UNLESS OTHERWISE NOTED.

COPYRIGHT © 2026
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

WDC GROUP
23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
info@wdc-group.com

REVISIONS:
1A 06-29-2026

STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT
CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia
small city. big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
FIRE PROTECTION

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

FP1
77 OF 112

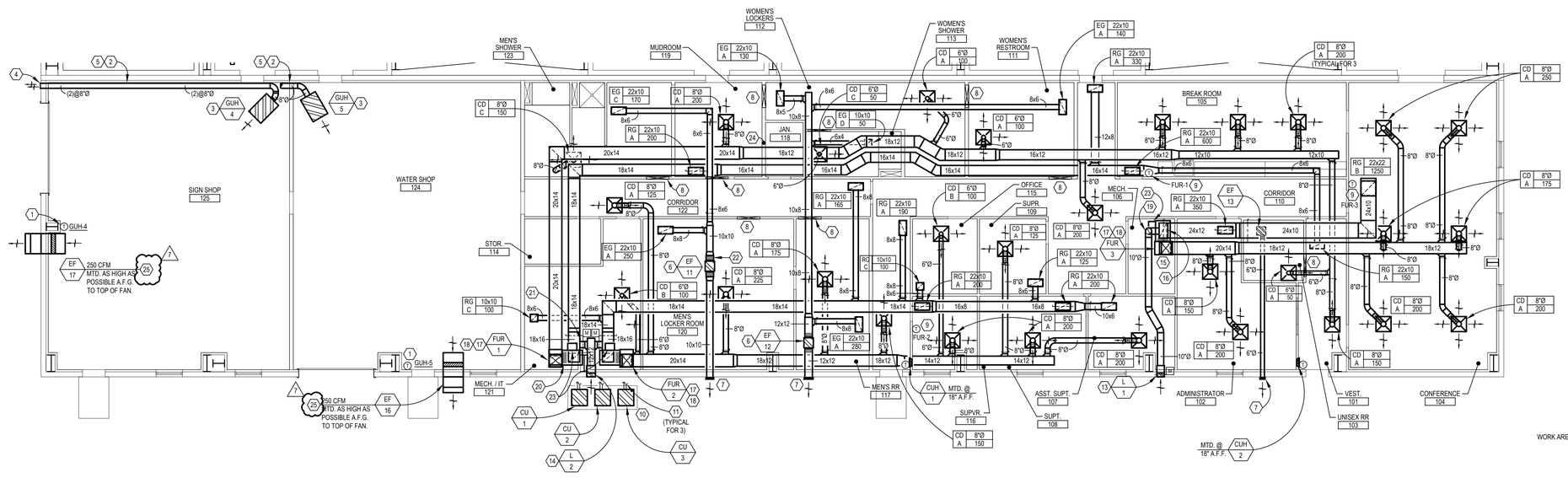
\\192.168.30.10\Public\PROJECTS\23014_Vandalia Public Works\DWGS\Sheets\FP1_Vandalia_Public_Works.dwg, 7/1/2026 4:53:52 PM, AutoCAD PDF (General Documentation).pc3

MECHANICAL CODED NOTES:

1. THERMOSTAT FOR NEW UNIT HEATER TO BE MOUNTED AT 48" A.F.F. IF THERMOSTAT IS LOCATED ON AN EXTERIOR WALL, PROVIDE THERMALLY INSULATED BACK PLATE.
2. MECHANICAL CONTRACTOR SHALL EXTEND HORIZONTAL INTAKE AND EXHAUST PIPING THROUGH WALL COMPLETE WITH CONCENTRIC TERMINATION KIT. INSTALL COMBUSTION AND VENT PIPING PER MANUFACTURER'S INSTALLATION REQUIREMENTS AND PIPE SIZES. SEAL WALL PENETRATION WEATHER TIGHT.
3. NEW GAS FIRED UNIT HEATER TO BE SUSPENDED WITH ALL THREADED RODS AND NEOPRENE VIBRATION ISOLATORS FROM STRUCTURE FRAMING AS HIGH AS POSSIBLE. COORDINATE EXACT HEIGHT IN FIELD.
4. CONCENTRIC FLUE KIT TO BE INSTALLED APPROXIMATELY 12' A.F.F. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
5. VENT AND COMBUSTION AIR PIPING TO BE INSTALLED AS HIGH UP AS POSSIBLE.
6. EXHAUST FAN MOUNTED FROM STRUCTURE WITH ALL THREADED RODS AND VIBRATION ISOLATORS.
7. MECHANICAL CONTRACTOR SHALL EXTEND EXHAUST DUCT (SIZE AS NOTED) THROUGH WALL TO VENT CAP COMPLETE WITH BIRD SCREEN AND BACK DRAFT DAMPER. SEAL WALL PENETRATION WEATHER TIGHT. ENSURE A MINIMUM 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES.
8. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR 1" UNDERCUT DOOR.
9. THERMOSTAT FOR NEW FURNACE TO BE MOUNTED AT 48" A.F.F.
10. COORDINATE WITH THE GENERAL CONTRACTOR TO MOUNT CONDENSING UNIT ON HOUSEKEEPING PAD. MOUNT UNIT LEVEL IN ALL DIRECTIONS.
11. RUN REFRIGERANT LIQUID AND SUCTION PIPING FROM CONDENSING UNIT (CU-1, CU-2 & CU-3) TO RESPECTIVE INDOOR FURNACE COOLING COILS (FUR-1, FUR-2 & FUR-3). REFRIGERANT PIPE(S) SIZES SHALL BE DETERMINED BY THE COMPRESSORIZED EQUIPMENT MANUFACTURER OR THEIR REPRESENTATIVE, WHO SHALL ALSO DETERMINE THE NEED FOR DOUBLE SUCTION PIPE RISERS, ACCUMULATORS AND OTHER APPURTENANCES REQUIRED FOR PROPER LONG TERM OPERATION OF THE EQUIPMENT. REFRIGERANT PIPE(S) SIZING AND ROUTING SHALL MEET ALL SYSTEM OPERATING CONDITIONS. THE CONTRACTOR SHALL PROVIDE TO THE OWNER AND ENGINEER LETTERS AND DRAWINGS THAT ADEQUATELY DEPICT THE REFRIGERANT PIPING AND COMPONENTS, AND INDICATE THE RECOMMENDATIONS PROVIDED TO THEM BY THE MANUFACTURER OR THEIR REPRESENTATIVE. INSTALL THROUGH SIDEWALL IN 'PATE' PIPE CURB (SEAL PENETRATION WATER AND AIR TIGHT), RISE UP IN WALL AND RUN AS HIGH AS POSSIBLE IN CEILING SPACE TO FAN COIL UNITS. INSULATE VAPOR AND LIQUID LINE WITH NEW 1" THICK FLEXIBLE UNICELLULAR INSULATION (ARMAFLEX AP). PAINT INSULATION LOCATED OUTDOORS WITH ARMAFLEX WB FINISH. TRAP AND SLOPE LINES PER MANUFACTURER'S RECOMMENDATIONS.
12. EXTEND TRAPPED CONDENSATE PIPING AND AND RUN GRAVITY SLOPED AT 1% MINIMUM OVER TO FLOOR DRAIN AND DISCHARGE INTO FLOOR DRAIN COMPLETE WITH AIR GAP. COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT FLOOR DRAIN LOCATION PRIOR TO STARTING WORK.
13. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO FURNISH AND INSTALL 1'-0" x 1'-0" (12" x 12") STATIONARY COMBINATION MOTORIZED WALL FRESH AIR INTAKE LOUVER. INTERLOCK LOUVER WITH OPERATION OF FUR-3 (DAMPER SHALL OPEN WHEN FUR-3 FAN ENGAGES) SET DAMPER TO SUPPLY 400 CFM (25%) OUTSIDE AIR. PROVIDE 12x12x12 PLENUM BOX OFF BACK OF LOUVER. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL WALL OPENING WEATHER TIGHT.

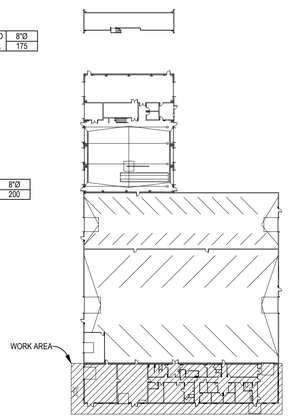
MECHANICAL CODED NOTES (CONTINUED):

14. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO FURNISH AND INSTALL 1'-2" x 1'-2" (14" x 14") STATIONARY WALL FRESH AIR INTAKE LOUVER. PROVIDE 14x14x12 PLENUM BOX OFF BACK OF LOUVER. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL WALL OPENING WEATHER TIGHT.
15. EXTEND FULL SIZE SUPPLY AIR DUCT FROM FURNACE COMPLETE WITH FLEXIBLE CONNECTION AT UNIT AND TRANSITION IN RISE TO A 20x14 SUPPLY AIR DUCT. (TYPICAL FOR FUR-3 AND FUR-3)
16. PROVIDE FULL SIZE RETURN AIR PLENUM FROM SIDE CONNECTION ON FURNACE COMPLETE WITH FILTER RACK AND FLEXIBLE CONNECTION AT UNIT. DROP 24x12 RETURN AIR DUCT DROP DOWN INTO TOP OF FULL SIZE RETURN AIR PLENUM COMPLETE WITH MANUAL VOLUME DAMPER FOR BALANCING.
17. ROUTE TRAPPED CONDENSATE PIPING FROM FURNACE AND RUN GRAVITY SLOPED AT 1% MINIMUM OVER TO FLOOR DRAIN IN ROOM DISCHARGE INTO FLOOR DRAIN COMPLETE WITH 2" AIR GAP. COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT FLOOR DRAIN LOCATION PRIOR TO ROUGH-IN.
18. EXTEND FURNACE FLUE AND COMBUSTION AIR PIPING UP AND TERMINATE THROUGH ROOF COMPLETE WITH CONCENTRIC VENT TERMINATION KIT. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL ROOF OPENING WEATHER TIGHT.
19. EXTEND AND CONNECT 10"Ø OUTSIDE AIR DUCT INTO 24x12 RETURN AIR DUCT IN DROP UPSTREAM OF MANUAL VOLUME DAMPER.
20. PROVIDE FULL SIZE RETURN AIR PLENUM FROM SIDE CONNECTION ON FURNACE COMPLETE WITH FILTER RACK AND FLEXIBLE CONNECTION AT UNIT. DROP 18x16 RETURN AIR DUCT DROP DOWN INTO TOP OF FULL SIZE RETURN AIR PLENUM. (TYPICAL FOR FUR-2)
21. EXTEND AND CONNECT 10"Ø OUTSIDE AIR DUCT INTO SIDE OF 18x16 RETURN AIR DUCT COMPLETE WITH 120V MOTORIZED DAMPER, INTERLOCK DAMPER WITH OPERATION OF FUR-1 (DAMPER SHALL OPEN WHEN FUR-1 FAN ENGAGES SET DAMPER TO SUPPLY 400 CFM (25%) OUTSIDE AIR. (TYPICAL FOR FUR-2)
22. FLEXIBLE CONNECTION AT UNIT. (TYPICAL)
23. MOUNT 'APRILAIRE' MODEL #620 ON RETURN AIR PLENUM. COORDINATE WITH THE PLUMBING CONTRACTOR FOR 1/2" COLD WATER TAP. RUN 1/4" COLD WATER FROM TAP AND CONNECT TO HUMIDIFIER COMPLETE WITH SHUT-OFF VALVE. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
24. RESIDENTIAL CLOTHES DRYER TO BE FURNISHED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR. 4"Ø RESIDENTIAL CLOTHES DRYER EXHAUST UP ALONG WALL FROM 90 DEGREE ELBOW AT 6" ABOVE FINISHED FLOOR. EXTEND 4"Ø CLOTHES DRYER EXHAUST UP THRU ROOF TO ROOF CAP COMPLETE WITH BACKDRAFT DAMPER FOR RESIDENTIAL CLOTHES DRYER EXHAUST.
25. SIDEWALL MOUNTED EXHAUST FAN WITH WALL HOUSING, GRAVITY BACKDRAFT DAMPER AND WEATHERHOOD. FAN TO BE OPERATED CONTINUOUSLY. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL WALL OPENING WEATHER TIGHT.



ENLARGED MECHANICAL PLAN 'A'

SCALE:1/8" = 1'-0"



KEY PLAN

N.T.S.

ALL WORK ON THIS SHEET BY 15B UNLESS OTHERWISE NOTED.

© COPYRIGHT 2025. POINT ONE DESIGN LTD. #C25251

COPYRIGHT © 2025

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

POINT ONE Design LTD. Consulting Engineers
Columbus, OH | Cleveland, OH
P: 614-540-3500 | P: 440-230-1800
pointonedesign.com

WDC GROUP

REVISIONS:
1 ADDENDUM 3 06/03/2026
2 ADDENDUM 7 06/29/2026

STATE OF OHIO
NATHANIEL A. MODLICH
REGISTERED PROFESSIONAL ENGINEER
Nathaniel A Modlich

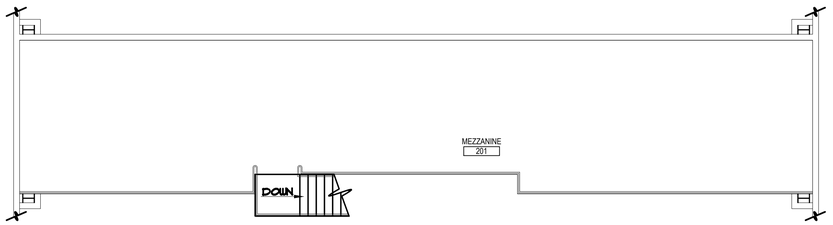
vandalia ohio
small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45377

ENLARGED MECHANICAL PLAN 'A'

PROJECT NO.: 23014
DRAWN BY: JD
DATE: 05-18-2026
CHECKED BY: NAM

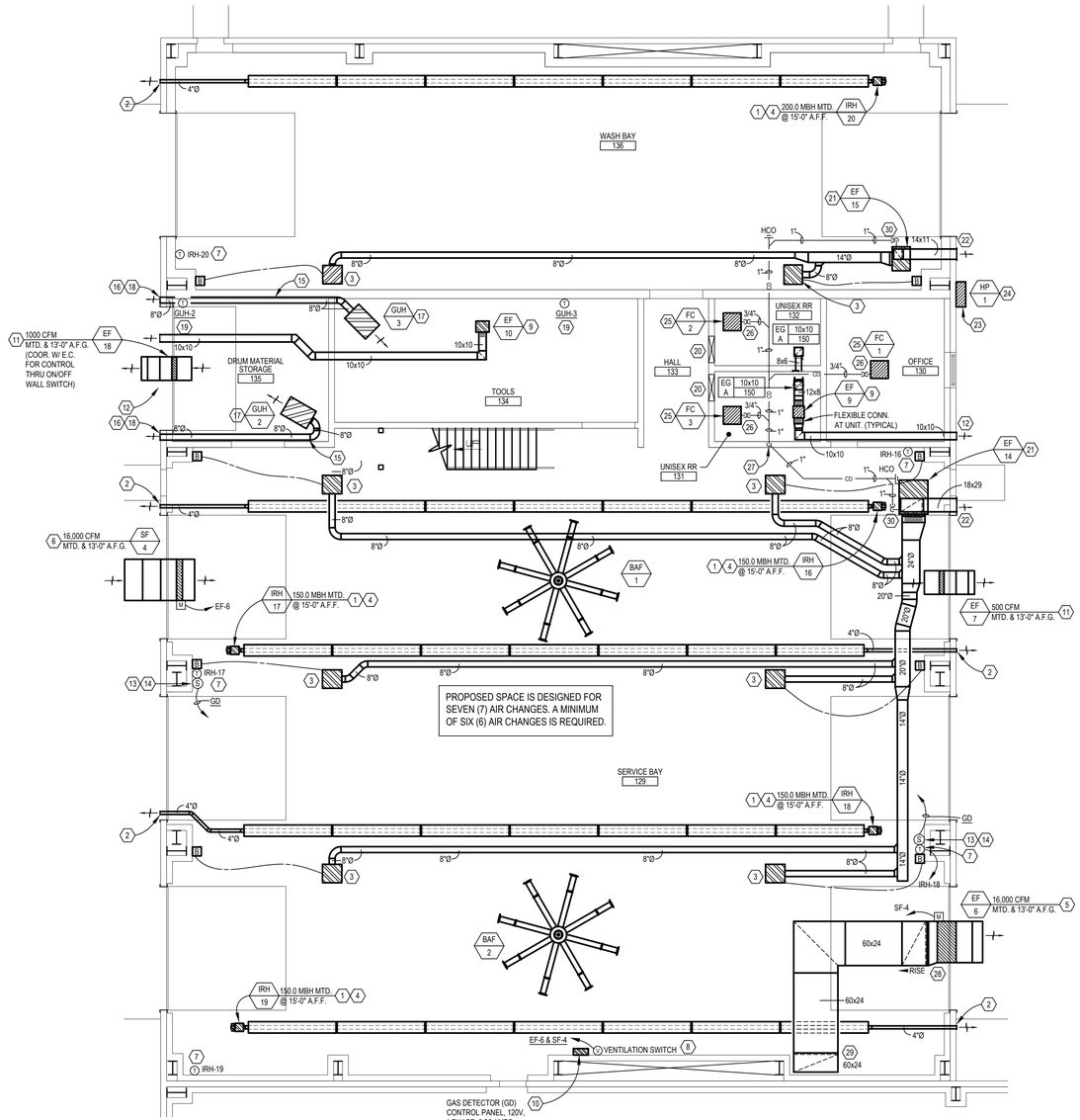
M1.1
88 OF 112



ENLARGED MEZZANINE 'A' MECHANICAL PLAN

SCALE:1/8" = 1'-0"

7 ALL ENCLOSURES, CONNECTIONS, RACEWAYS, ETC. IN WASH BAY TO BE WATERPROOF. PROVIDE LISTED COMPONENTS AS APPLICABLE



ENLARGED MECHANICAL PLAN 'D'

SCALE:1/8" = 1'-0"

MECHANICAL CODED NOTES:

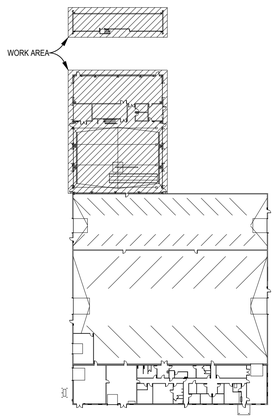
1. BASIS OF DESIGN IS AN INFRARED TUBE HEATER THAT IS CAPABLE OF ATMOSPHERIC COMBUSTION AIR.
2. 4" DIAMETER SELKIRK METALBESTOS FLUE THRU EXTERIOR WALL. FLASH AND COUNTER FLASH WALL OPENING WEATHER TIGHT. TERMINATE WITH SELKIRK METALBESTOS TYPE B VENT CAP. REFER TO HORIZONTAL VENT DETAIL ON DWG M3.0 FOR ADDITIONAL INFORMATION.
3. MONOXIVENT SERIES 9000L SPRING HOSE REEL WITH 44' x 8" SERIES 4000 HOSE, Y KIT ASSEMBLY. #TCA-8 STAINLESS STEEL ADAPTER TAPERED CONE FOR 8", #VG VICE GRIP ADD ON FOR TCA ADAPTER, #LS LIFTING SLEEVE ADD ON FOR TCA ADAPTER, #LP-10-ADJ 10' ADJUSTABLE LIFTING POLE, #23909 WORM GEAR CLAMP FOR 8". COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ON / OFF BUTTON OR SWITCH AT EACH HOSE DROP LOCATION TO ACTIVATE EXHAUST FAN.
4. INFRARED LOW-INTENSITY, GAS-FIRED, VENTED TUBE HEATER (IRH) FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOUNT HEATER FROM ROOF STRUCTURE AT ELEVATION INDICATED ON THE DRAWINGS. ALL INSTALLATIONS TO BE MADE PER MANUFACTURERS RECOMMENDATIONS.
5. SIDE WALL MOUNTED EXHAUST FAN WITH WALL HOUSING, MOTORIZED CONTROL DAMPER AND WEATHERHOOD. INTERLOCK FAN WITH MOTORIZED DAMPER AND VENTILATION CONTROL SWITCH. THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL ALL CONTROL WIRING, TRANSFORMERS, RELAYS, CONTACTS AND ACCESSORIES AS REQUIRED TO INTERFACE DAMPER, FAN MOTOR WITH SENSOR. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL OPENING WEATHER TIGHT.
6. SIDE WALL MOUNTED SUPPLY FAN WITH WALL HOUSING, MOTORIZED CONTROL DAMPER AND WEATHERHOOD. INTERLOCK FAN WITH MOTORIZED DAMPER AND VENTILATION CONTROL SWITCH. THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL ALL CONTROL WIRING, TRANSFORMERS, RELAYS, CONTACTS AND ACCESSORIES AS REQUIRED TO INTERFACE DAMPER, FAN MOTOR WITH SENSOR. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL OPENING WEATHER TIGHT.
7. THERMOSTAT FOR INFRARED HEATER TO BE MOUNTED AT 48" A.F.F. IF THERMOSTAT IS LOCATED ON AN EXTERIOR WALL, PROVIDE THERMALLY INSULATED BACK PLATE.
8. 16A 15B WALL MOUNTED VENTILATION CONTROL SWITCH FOR OPERATION OF EXHAUST FAN EF-6 AND SUPPLY FAN SF-4 TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. INTERFACE AND INTERLOCK SWITCH WITH GAS DETECTOR CONTROL PANEL. REFER TO "SERVICE BAY (129) VENTILATION SYSTEM SEQUENCE OF OPERATION" ON THIS SHEET FOR ADDITIONAL INFORMATION.
9. EXHAUST FAN MOUNTED FROM STRUCTURE WITH ALL THREADED RODS AND VIBRATION ISOLATORS.
10. 15B 16A WALL MOUNTED GAS DETECTOR CONTROL PANEL TO BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PANEL TO BE 120V, 1 PHASE, 60HZ AND BE MOUNTED AT 4'-0" A.F.F.. REFER TO "SERVICE BAY (129) VENTILATION SYSTEM SEQUENCE OF OPERATION" ON THIS SHEET FOR ADDITIONAL INFORMATION.
11. SIDEWALL MOUNTED EXHAUST FAN WITH WALL HOUSING, GRAVITY BACKDRAFT DAMPER AND WEATHERHOOD. FAN TO BE OPERATED CONTINUOUSLY. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL OPENING WEATHER TIGHT.
12. MECHANICAL CONTRACTOR SHALL EXTEND 10x10 EXHAUST DUCT THROUGH WALL TO VENT CAP COMPLETE WITH BIRD SCREEN AND BACK DRAFT DAMPER. SEAL WALL PENETRATION WEATHER TIGHT. ENSURE A MINIMUM 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES.
13. CARBON MONOXIDE GAS SENSOR/TRANSMITTER 25-28 VDC, BRASH MODEL #GSE-CM-TRA. MOUNT SENSOR AT 5'-6" A.F.F..
14. NITROGEN DIOXIDE GAS SENSOR/TRANSMITTER 25-28 VDC, BRASH MODEL #GSE-ND-TRA. MOUNT SENSOR AT 5'-6" A.F.F..
15. VENT AND COMBUSTION AIR PIPING TO BE INSTALLED AS HIGH UP AS POSSIBLE.
16. CONCENTRIC FLUE KIT TO BE INSTALLED APPROXIMATELY 12' A.F.F. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
17. NEW GAS FIRED UNIT HEATER TO BE SUSPENDED WITH ALL THREADED RODS AND NEOPRENE VIBRATION ISOLATORS FROM STRUCTURE FRAMING AS HIGH AS POSSIBLE. COORDINATE EXACT HEIGHT IN FIELD.
18. MECHANICAL CONTRACTOR SHALL EXTEND HORIZONTAL INTAKE AND EXHAUST PIPING THROUGH WALL COMPLETE WITH CONCENTRIC TERMINATION KIT. INSTALL COMBUSTION AND VENT PIPING PER MANUFACTURER'S INSTALLATION REQUIREMENTS AND PIPE SIZES. SEAL WALL PENETRATION WEATHER TIGHT
19. THERMOSTAT FOR UNIT HEATER TO BE MOUNTED AT 48" A.F.F. IF THERMOSTAT IS LOCATED ON AN EXTERIOR WALL, PROVIDE THERMALLY INSULATED BACK PLATE.
20. COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE 1" UNDERCUT DOOR FOR MAKE-UP AIR.
21. EXHAUST FAN TO BE SUSPENDED WITH ALL THREADED RODS AND VIBRATION ISOLATORS FROM STRUCTURE FRAMING AS HIGH AS POSSIBLE. COORDINATE EXACT HEIGHT IN FIELD.
22. WALL EXHAUST CAP, COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS. ENSURE A MINIMUM 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES. SEAL OPENING WEATHER TIGHT.
23. COORDINATE WITH THE GENERAL CONTRACTOR TO MOUNT HEAT PUMP UNIT ON EXTERIOR WALL ON WALL MOUNTING BRACKET.
24. RUN REFRIGERANT LIQUID AND SUCTION PIPING FROM HEAT PUMP UNIT (HP-1) TO RESPECTIVE FAN COIL UNITS (FC-1, FC-2 & FC-3). REFRIGERANT PIPE(S) SIZES SHALL BE DETERMINED BY THE COMPRESSORIZED EQUIPMENT MANUFACTURER OR THEIR REPRESENTATIVE, WHO SHALL ALSO DETERMINE THE NEED FOR DOUBLE SUCTION PIPE RISERS, ACCUMULATORS AND OTHER APPURTENANCES REQUIRED FOR PROPER LONG TERM OPERATION OF THE EQUIPMENT. REFRIGERANT PIPE(S) SIZING AND ROUTING SHALL MEET ALL SYSTEM OPERATING CONDITIONS. THE CONTRACTOR SHALL PROVIDE TO THE OWNER AND ENGINEER LETTERS AND DRAWINGS THAT ADEQUATELY DEPICT THE REFRIGERANT PIPING AND COMPONENTS, AND INDICATE THE RECOMMENDATIONS PROVIDED TO THEM BY THE MANUFACTURER OR THEIR REPRESENTATIVE. INSTALL THROUGH SIDEWALL IN 'PATE' PIPE CURB (SEAL PENETRATION WATER AND AIR TIGHT), RISE UP IN WALL AND RUN AS HIGH AS POSSIBLE IN CEILING SPACE TO FAN COIL UNITS. INSULATE VAPOR AND LIQUID LINE WITH NEW 1" THICK FLEXIBLE UNICELLULAR INSULATION (ARMAFLEX AP). PAINT INSULATION LOCATED OUTDOORS WITH ARMAFLEX WB FINISH. TRAP AND SLOPE LINES PER MANUFACTURER'S RECOMMENDATIONS.
25. FAN COIL UNIT MOUNTED FROM STRUCTURE WITH ALL THREADED RODS AND VIBRATION ISOLATORS.
26. EXTEND 3/4" TRAPPED PUMPED CONDENSATE PIPING FROM INTEGRAL CONDENSATE PUMP AND RUN AS HIGH AS POSSIBLE IN CEILING SPACE GRAVITY SLOPED AT 1% MINIMUM AS SHOWN.
27. DROP 1-1/4" CONDENSATE / DRAIN PIPING DOWN IN WALL AND DISCHARGE INTO MOP SINK COMPLETE WITH 2-1/2" AIR GAP.
28. TRANSITION FULL SIZE (FIELD VERIFY EXACT SIZE) EXHAUST AIR DUCT TO A 60x24 EXHAUST AIR DUCT AND RISE UP AS REQUIRED TO RUN OVERTOP IRH-19.
29. 60x24 EXHAUST AIR DUCT DROP DOWN ALONG WALL EXPOSED TIGHT TO WALL AND TERMINATE AT 12" A.F.F MAXIMUM.
30. EXTEND 1" TRAPPED DRAIN PIPING FROM CONNECTION AT FAN AND RUN AS HIGH AS POSSIBLE GRAVITY SLOPED AT 1% MINIMUM.

SERVICE BAY (129) VENTILATION SYSTEM SEQUENCE OF OPERATION:

THE "ON/OFF" VENTILATION CONTROL SWITCH AND GAS DETECTOR SYSTEM SHALL CONTROL THE OPERATION OF THE EXHAUST FAN (EF-6) AND THE SUPPLY FAN (SF-4). UPON ACTIVATION OF THE SWITCH "ON" MODE THE EXHAUST FAN (EF-6) AND SUPPLY FAN (SF-4) SHALL START AND DAMPERS SHALL SIMULTANEOUSLY OPEN TO FULL POSITION. WHEN SWITCH IS PUT INTO THE "OFF" MODE THE EXHAUST FAN (EF-6) AND SUPPLY FAN (SF-4) WILL STOP AND ITS DAMPER SHALL FULLY CLOSE. IF THE GAS DETECTOR SYSTEM SENSES AN ALERT OR ALARM CONDITION THE VENTILATION SYSTEM INCLUDING EXHAUST FAN, SUPPLY FANS, ETC. WILL BE AUTOMATICALLY STARTED AND BE FULLY OPERATIONAL.

NEC SECTION 511.3(C):

PROPOSED SPACE IS PROVIDED WITH VENTILATION PER TABLE 511.3(C) - MAJOR REPAIR GARAGE - TO COMPLY WITH MINIMUM EXHAUST RATE AT SUCTION POINT LEVEL TO DESIGNATE THE PROPOSED SPACE 'UNCLASSIFIED'.



KEY PLAN

N.T.S.

ALL WORK ON THIS SHEET BY 15B UNLESS OTHERWISE NOTED.

© COPYRIGHT 2025, POINT ONE DESIGN, LTD. #C22521

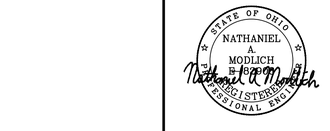
COPYRIGHT © 2025

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

POINT ONE Design LTD. Consulting Engineers
Columbus, OH | Cleveland, OH
P: 614-540-3500 | P: 440-230-1800
pointonedesign.com

WDC GROUP

REVISIONS:
1 ADDENDUM 3 06/03/2025
2 ADDENDUM 7 06/20/2025



vandalia small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

ENLARGED MECHANICAL PLAN 'D'

PROJECT NO.: 23014
DRAWN BY: JD
DATE: 05-18-2026
CHECKED BY: NAM

M1.4
92 OF 112

DUCTWORK SCHEDULE

DUCT SYSTEM	SMACNA PRESSURE CLASS	SMACNA SEAL CLASS	DUCT MATERIAL	INSULATION
SUPPLY AIR DUCTWORK (CONCEALED)	+2"	B	G-60 GALVANIZED STEEL	2" DUCT WRAP WITH ASJ
SUPPLY AIR DUCTWORK (EXPOSED)	+2"	B	G-60 GALVANIZED STEEL	2" DUCT LINING
RETURN AIR DUCTWORK	-1"	B	G-60 GALVANIZED STEEL	1" LINER
EXHAUST AIR DUCTWORK	-1"	B	G-60 GALVANIZED STEEL	NONE
OUTSIDE AIR DUCTWORK	+2"	B	G-60 GALVANIZED STEEL	2" DUCT WRAP WITH ASJ

NOTE: ALL DUCTWORK SIZES ARE AIRWAY DIMENSIONS

INFRARED HEATER SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER	LENGTH	INPUT (MBH)	WEIGHT (LBS)	
IRH 1 - 10	SOLARONICS STG 100-40BN STRAIGHT	47'-1/4"	100.0	230	NOTES 1-6
IRH 11	SOLARONICS STG-200-70CN STRAIGHT	72'-1/4"	200.0	540	NOTES 1-6
IRH 12-19	SOLARONICS STG 150-70CN STRAIGHT	72'-1/4"	150.0	380	NOTES 1-6
IRH 20	SOLARONICS SSTG-200-70CN STRAIGHT	72'-1/4"	200.0	540	NOTES 1-7

NOTE:
1. 1/2" FPT GAS INLET CONN.
2. 10 YEAR WARRANTY ON BURNER CORE AND ALL HEAT EXCHANGER AND COMBUSTION TUBES
3. 2 YEAR WARRANTY ON ALL BURNER CONTROLS
4. 120/60/1 POWER SUPPLY, 1.3 AMPS
5. 24 GAUGE ALUMINUM REFLECTOR, ROTATABLE 0° TO 30°
6. 24 V REMOTE TSTAT
7. STAINLESS STEEL CONSTRUCTION FOR WET AREAS.

SIMILAR MANUFACTURER: BY CAMBRIDGE, ENERCO, SCHWANK, RE-VERBER-RAY

SPLIT SYSTEM FURNACE SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER	AREA SERVED	CFM	CFM OUTSIDE AIR	ESP (IN.)	HEATING CAPACITY INPUT (MBH)	HEATING CAPACITY OUTPUT (MBH)	HEATING CAPACITY EFF. %	MOTOR HP & VOLTAGE	DX COOLING COIL DATA MODEL No.	DX COOLING COIL DATA TOTAL (MBH)	DX COOLING COIL DATA SENSIBLE (MBH)	DX COOLING COIL DATA E.A.T. (DB/WB)
FUR 1	TRANE S9X2C100	OFFICE BUILDING	1600	288	0.7	65.0 / 100.0	63.05 / 97.0	95	1.0 HP 115/60/1	TRANE 5TXCC00TAS3	45	34.8	80/67
FUR 2	TRANE S9X2C100	OFFICE BUILDING	1600	288	0.7	65.0 / 100.0	63.05 / 97.0	95	1.0 HP 115/60/1	TRANE 5TXCC00TAS3	45	34.8	80/67
FUR 3	TRANE S9X2C100	OFFICE BUILDING	1600	288	0.7	65.0 / 100.0	63.05 / 97.0	95	1.0 HP 115/60/1	TRANE 5TXCC00TAS3	45	34.8	80/67

TAG	MODEL No.	NOM. TONNAGE	AMBIENT AIR TEMP.	SEER2	VOLTAGE	MCA	MOCP	REMARKS
CU 1	TRANE 5TTR7048A1	4.0	95	17.0	208/60/1	36.0	50	SEE NOTES BELOW
CU 2	TRANE 5TTR7048A1	4.0	95	17.0	208/60/1	36.0	50	SEE NOTES BELOW
CU 3	TRANE 5TTR7048A1	4.0	95	17.0	208/60/1	36.0	50	SEE NOTES BELOW

FURNISH WITH THE FOLLOWING:
1. 7 DAY PROGRAMMABLE HEATING/COOLING THERMOSTAT
2. FLUE AND COMBUSTION AIR CONCENTRIC ROOF VENT KIT SIZED PER MANUFACTURER'S INSTRUCTIONS.
3. TWO SETS OF 2" PLEATED THROWAWAY FILTERS
4. REFRIGERANT ACC. AND LINE SIZE KIT SUCTION LINE TO BE INSULATED
5. MANUFACTURER ACCESSORY CONDENSATE TRAP INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
6. UNIT NOT TO BE USED FOR TEMPORARY HEATING OR COOLING DURING CONSTRUCTION
7. 2-STAGE HEATING
8. APRILAIRE MODEL 620 HUMIDIFER, 18 GPD CAPACITY, 24 VAC - 60 HZ - 0.5 A. PROVIDE COMPLETE WITH IN-LINE SCALE REDUCER.

SIMILAR MANUFACTURERS BY CARRIER OR BRYANT

CONDENSING UNIT:
1. BALL BEARING FAN MOTOR
2. CRANKCASE HEATER
3. LOW AMBIENT CONTROL TO 0°F
4. SHORT CIRCUIT PROTECTION (DELAY)
5. EVAPORATOR FREEZE THERMOSTAT
6. FILTER DRYER
7. LOW PRESSURE SWITCH
8. OUTDOOR AIR TEMPERATURE SENSOR
9. WINTER START CONTROL
10. R-454B REFRIGERANT
11. 2- STAGE COMPRESSOR

FAN SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER	AREA SERVED	SERVICE	CFM	ESP	MOTOR HP & VOLTAGE	FAN RPM	FAN TYPE	MAX. SOUND LEVEL	CONTROL INTERLOCK	REMARKS
EF 1 & 2	GREENHECK SBE-2L42-30	LARGE VEHICLE STORAGE 127	EXHAUST	24,000	0.25	3.0 HP 208/60/1	609	SIDEWALL PROPELLER	30.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 10 & 11 BELOW.
EF 3	GREENHECK SBE-1H20-4	LARGE VEHICLE STORAGE 127	EXHAUST	1,200	0.25	0.25 HP 208/60/1	820	SIDEWALL PROPELLER	11.8	DISC. SW OR CIRCUIT BREAKER	SEE NOTES 6, 7, 8, 9, 10 & 12 BELOW.
EF 4	GREENHECK SBE-2L42-30	EQUIPMENT STORAGE 128	EXHAUST	24,000	0.25	3.0 HP 208/60/1	609	SIDEWALL PROPELLER	30.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 10 & 11 BELOW.
EF 5	GREENHECK SBE-1H20-4	EQUIPMENT STORAGE 128	EXHAUST	700	0.25	0.25 HP 208/60/1	732	SIDEWALL PROPELLER	9.8	DISC. SW OR CIRCUIT BREAKER	SEE NOTES 6, 7, 8, 9, 10 & 12 BELOW.
EF 6	GREENHECK SBE-2L42-15	SERVICE BAY 129	EXHAUST	16,000	0.25	1.5 HP 208/60/1	471	SIDEWALL PROPELLER	20.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 10 & 11 BELOW.
EF 7	GREENHECK SBE-1H20-4	SERVICE BAY 129	EXHAUST	500	0.25	0.25 HP 208/60/1	690	SIDEWALL PROPELLER	9.8	DISC. SW OR CIRCUIT BREAKER	SEE NOTES 6, 7, 8, 9, 10 & 12 BELOW.
EF 8	GREENHECK SP-A780	STORAGE 126	EXHAUST	600	0.5	348 WATTS 115/60/1	1503	CEILING MTD.	6.5	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 9	GREENHECK SQ-90-VG	UNISEX RR'S 131 & 132	EXHAUST	300	0.5	348 WATTS 115/60/1	1960	INLINE	18.7	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 10	GREENHECK SP-A510-VG	TOOLS 134	EXHAUST	500	0.5	143 WATTS 115/60/1	1349	CEILING MTD.	7.0	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 11	GREENHECK SQ-90-VG	MEN'S LOCKER ROOM 120 / MEN'S SHOWER 123	EXHAUST	420	0.5	1/10 HP 115/60/1	1667	INLINE	8.3	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 12	GREENHECK SQ-95-VG	WOMEN'S RESTROOM 111 / WOMEN'S LOCKER ROOM 112 / WOMEN'S SHOWER 113 / MEN'S RR 117	EXHAUST	600	0.5	1/6 HP 115/60/1	1699	INLINE	9.4	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 13	GREENHECK SP-B110	UNISEX RR 103	EXHAUST	70	0.5	80 WATTS 115/60/1	783	CEILING MTD.	2.0	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 14	GREENHECK USF-27	TAILPIPE EXHAUST	EXHAUST	7200	7.0	15.0 HP 208/60/3	1725	UTILITY SET	50.0	SWITCHED	SEE NOTES 1, 3 & 13 - 16 BELOW.
EF 15	GREENHECK USF-13	TAILPIPE EXHAUST	EXHAUST	2400	6.0	5.0 HP 208/60/3	3097	UTILITY SET	35.0	SWITCHED	SEE NOTES 1, 3 & 13 - 16 BELOW.
EF 16	GREENHECK SBE-1H20-4	WATER SHOP 124	EXHAUST	250	0.25	0.25 HP 208/60/1	640	SIDEWALL PROPELLER	8.0	DISC. SW OR CIRCUIT BREAKER	SEE NOTES 7, 8, 9, 10 & 12 BELOW.
EF 17	GREENHECK SBE-1H20-4	SIGN SHOP 125	EXHAUST	250	0.25	0.25 HP 208/60/1	640	SIDEWALL PROPELLER	8.0	DISC. SW OR CIRCUIT BREAKER	SEE NOTES 7, 8, 9, 10 & 12 BELOW. 7
EF 18	GREENHECK SBE-1H20-4	DRUM MATERIAL STORAGE 135	EXHAUST	1000	0.25	0.25 HP 208/60/1	799	SIDEWALL PROPELLER	11.3	SWITCH	SEE NOTES 6, 7, 8, 9 & 10 BELOW.
SF 1 & 2	GREENHECK SBS-2L42-30	LARGE VEHICLE STORAGE 127	SUPPLY	24,000	0.25	3.0 HP 208/60/1	609	SIDEWALL PROPELLER	30.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 9, 10 & 11 BELOW.
SF 3	GREENHECK SBS-2L42-30	EQUIPMENT STORAGE 128	SUPPLY	24,000	0.25	3.0 HP 208/60/1	609	SIDEWALL PROPELLER	30.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 9, 10 & 11 BELOW.
SF 4	GREENHECK SBS-2L42-15	SERVICE BAY 129	SUPPLY	16,000	0.25	1.5 HP 208/60/1	471	SIDEWALL PROPELLER	20.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 9, 10 & 11 BELOW.

FURNISH WITH THE FOLLOWING:
1. AUTOMATIC BACKDRAFT DAMPER
2. INTEGRAL SOLID STATE SPEED CONTROL (FOR BALANCING ONLY)
3. MOTOR W/ THERMAL OVERLOAD PROTECTION
4. CONTROLLED BY TIME CLOCK FOR OCCUPIED HOURS
5. NEOPRENE VIBRATION ISOLATION KIT
6. MOTORIZED DAMPER (120 VOLT, 1PH)
7. NEMA 1 DISCONNECT SWITCH
8. BELT DRIVE
9. LONG WALL HOUSING
10. WEATHERHOOD W/ 45° TURN DOWN
11. CONTROLLED BY GAS DETECTION VENTILATION CONTROLLER WITH MANUAL OVERRIDE SWITCH BY EC.
12. FAN TO RUN CONTINUOUSLY
13. SPRING VIBRATION ISOLATORS
14. CONTROL FROM SWITCHES BY E.C.
15. VFD PACKAGE
16. NEMA-3R TOGGLE SWITCH

VENTILATION AIR REQUIREMENT

HVAC UNIT	ZONE DESCRIPTION	ZONE FLOOR AREA (SQ. FT.) Az	AREA OUTDOOR AIR RATE (CFM/SQ.FT) Ra	PEOPLE OUTDOOR AIR RATE (CFM/PERSON) Rp	ZONE POPULATION (# OF PEOPLE) Pz	BREATHING ZONE OUTDOOR AIR FLOW (CFM) Vbz	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	ZONE OUTDOOR AIR FLOW (CFM) Voz	SYSTEM VENTILATION EFFICIENCY Ev	MINIMUM OUTDOOR AIR INTAKE FLOW (CFM) Vot	DESIGN OUTDOOR AIR INTAKE FLOW (CFM)	REMARKS
	OFFICE 130	231	4% FLOOR AREA	0	0	9 SF	0	0	0	9 SF	21 SF	COMPLIES WITH NATURAL VENTILATION VIA (1) 7'x3' MAN DOOR.
	SERVICE BAY 129 / HALL 133 / MEZZANINE 201	7696	0.75 CFM PER SF INT. / 0.05 CFM PER SF CONT.	0	0	5772 / 385	0	0	0	5772 / 385	16000 / 500	COMPLIES WITH SECTION 404 OF THE OMC FOR ENCLOSED PARKING GARAGE.
	WASH BAY 136	2565	4% FLOOR AREA	0	0	103 SF	0	0	0	103 SF	434 SF	COMPLIES WITH NATURAL VENTILATION VIA (2) 7'x3' MAN DOORS AND (2) 14'x14' OVERHEAD DOORS.
	DRUM MATERIAL STORAGE 135	303	4% FLOOR AREA	0	0	12 SF	0	0	0	12 SF	98 SF	COMPLIES WITH NATURAL VENTILATION VIA (1) 14'x7' OVERHEAD DOOR.
	TOOLS 134	492	0.12	0	0	59.04	0.8	73.8	0	73.8	500 CFM	VENTILATION SUPPLIED THOROUGH TRANSFER OPENING & EF-10 FROM SERV/ICE BAY. VIA NATURAL VENTILATION.
	EQUIPMENT STORAGE 128	10660	0.75 CFM PER SF INT. / 0.05 CFM PER SF CONT.	0	0	7995 / 533	0	0	0	7995 / 533	24000 / 700	COMPLIES WITH SECTION 404 OF THE OMC FOR ENCLOSED PARKING GARAGE.
	LARGE VEHICLE STORAGE 127	21707	0.75 CFM PER SF INT. / 0.05 CFM PER SF CONT.	0	0	16280 / 1085	0	0	0	16280 / 1085	48000 / 1200	COMPLIES WITH SECTION 404 OF THE OMC FOR ENCLOSED PARKING GARAGE.
	STORAGE 126	600	4% FLOOR AREA	0	0	24 SF	0	0	0	24 SF	100 SF	COMPLIES WITH NATURAL VENTILATION VIA (1) 10'x10' OVERHEAD DOOR.
	SIGN SHOP 125	1219	4 % FLOOR AREA	0	0	49 SF	0	0	0	49 SF	198 SF	COMPLIES WITH NATURAL VENTILATION VIA (1) 7'x6' DOUBLE ENTRY DOOR AND (1) 12'x 13' OVERHEAD DOOR.
	WATER SHOP 124	1136	4% FLOOR AREA	0	0	45 SF	0	0	0	45 SF	132 SF	COMPLIES WITH NATURAL VENTILATION VIA (1) 7'x6' DOUBLE ENTRY DOOR AND (1) 10'x9' OVERHEAD DOOR.
EF-9	UNISEX RR 131	95	70 CFM PER WC / UR	0	0	140 CFM	0	0	0	140 CFM	150 CFM	QUANTITIES SHOWN ARE FOR EXHAUST.
EF-9	UNISEX RR 132	95	70 CFM PER WC / UR	0	0	140 CFM	0	0	0	140 CFM	150 CFM	QUANTITIES SHOWN ARE FOR EXHAUST.
EF-11	MENS LOCKER ROOM 120	400	0.25	0	0	100	0	100	0	100	200 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 56 CFM O.A. PROVIDED VIA FUR-2.
	MENS SHOWER 123	244	70 CFM PER WC / 50 CFM PER SHWR	0	0	170 CFM	0	0	0	170 CFM	200 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 37 CFM O.A. PROVIDED VIA FUR-1.
EF-12	WOMENS RESTROOM 111	175	70 CFM PER WC	0	0	140 CFM	0	0	0	140 CFM	150 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 25 CFM O.A. PROVIDED VIA FUR-1.
	WOMENS LOCKER ROOM 112	208	0.25	0	0	52	0	52	0	52	150 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 25 CFM O.A. PROVIDED VIA FUR-1.
	WOMENS SHOWER 113	73	50 CFM PER SHWR	0	0	50 CFM	0	0	0	50 CFM	75 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 12 CFM O.A. PROVIDED VIA FUR-1.
	MENS RR 117	194	70 CFM PER WC / UR	0	0	280 CFM	0	0	0	280 CFM	300 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 44 CFM O.A. PROVIDED VIA FUR-2.
EF-13	UNISEX RR 103	64	70 CFM PER WC	0	0	70 CFM	0	0	0	70 CFM	75 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 13 CFM O.A. PROVIDED VIA FUR-1.
FUR-1	MUDROOM 119	144	0.06	5	2	18.64	0.8	23.3	1	23.3	50	
FUR-1	BREAKROOM 105	375	0.06	5	6	52.5	0.8	65.625	1	65.625	150	
FUR-1	VEST 101	100	0.06	5	1	11	0.8	13.75	1	13.75	38	
FUR-2	MECH. / IT 121	243	0.06	5	1	19.58	0.8	24.475	1	24.475	25	
FUR-2	OFFICE 115	76	0.06	5	1	9.56	0.8	11.95	1	11.95	25	
FUR-2	SUPR. 109	98	0.06	5	1	10.88	0.8	13.6	1	13.6	31	
FUR-2	SUPT. 108	112	0.06	5	1	11.72	0.8	14.65	1	14.65	50	
FUR-2	ASST. SUPT. 107	112	0.06	5	1	11.72	0.8	14.65	1	14.65	50	
FUR-2	SUPVR. 116	109	0.06	5	1	11.54	0.8	14.425	1	14.425	50	
FUR-2	CORRIDOR 122	229	0.06	0	0	13.74	0.8	17.175	1	17.175	32	
FUR-3	CONFERENCE 104	762	0.06	5	20	145.72	0.8	182.15	1	182.15	313	
FUR-3	ADMINISTRATOR 102	266	0.06	5	3	30.96	0.8	38.7	1	38.7	87	
FUR-2 & 3	CORRIDOR 110	583	0.06	0	0	34.98	0.8	43.725	1	43.725	87	

NOTES: VENTILATION RATES ARE BASED ON IMC 2012, IECC 2012, ASHRAE 62.1-2010. ASHRAE 62.1-2010 ITEM 6.2.2.1 BREATHING ZONE OUTDOOR AIR FLOW (CFM) VBz = RpPz+RaAz x 1.00

WHERE: Az = ZONE FLOOR AREA Pz = POPULATION Rp = TABLE 6.1 OUTDOOR AIR PER PERSON Ra = TABLE 6.1 OUTDOOR AIR PER AREA

SPLIT DX FAN COIL AND HEAT PUMP SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER OUTDOOR UNIT	MANUFACTURER & MODEL NUMBER INDOOR UNIT	NOMINAL TONNAGE	CFM HIGH	INDOOR UNIT WEIGHT (LBS.)	GROSS COOLING CAPACITY EAT DB/WB	HEATING CAPACITY TOTAL (MBH)	HEATING CAPACITY SENSIBLE (MBH)	HEATING CAPACITY HIGH @ 47°F (MBH)	HEATING CAPACITY COP2	HEATING CAPACITY HSPF2	OUTDOOR UNIT VOLTAGE	OUTDOOR UNIT MCA	OUTDOOR UNIT MOCP	OUTDOOR UNIT AMB. TEMP.	OUTDOOR UNIT SEER2 / EER2	UNIT WEIGHT (LBS.) W/O ACCESSORIES OUTDOOR	REMARKS
HP 1 / FC 1	DAIKIN 3MXS24WMJU9	DAIKIN FFQ09WV2VJU9	2 - OUTDOOR .75 - INDOOR	378	39	80/67	24	-	24	4.4	9.7	208V 1 PH	18.1	25	95°F	18.0 / 11.7	150	SEE NOTES BELOW
FC 2 & 3		DAIKIN FFQ09W2VJU9	1.0 - INDOOR	406	39													

ACCESSORIES (PROVIDE THROUGH MANUFACTURER.):
1. CONDENSATE DRAIN PUMP (FAN COIL UNIT)
2. FILTER CABINET WITH MERV 8 FILTER. (FAN COIL UNIT)
3. TIME DELAY RELAY. (FAN COIL UNIT)
4. BALL BEARING FAN MOTOR. (HEAT PUMP)
5. LOW-AMBIENT CONTROL (5°F) COMPLETE WITH LOW-AMBIENT PRESSURE SWITCH KIT. (HEAT PUMP)
6. CRANKCASE HEATER. (HEAT PUMP)
7. ISOLATION RELAY. (HEAT PUMP)
8. EVAPORATOR FREEZE THERMOSTAT. (HEAT PUMP)
9. HARD START KIT. (HEAT PUMP)
10. COMPRESSOR START ASSIST - CAPACITOR & RELAY. (HEAT PUMP)
11. CYCLE PROTECTOR. (HEAT PUMP)
12. HARD SHUTOFF TXV. (HEAT PUMP)
13. PROGRAMMABLE THERMOSTAT
14. WIND BAFFLES. (HEAT PUMP)

NOTES:
1. REFER TO PLANS FOR THERMOSTAT LOCATIONS AND MOUNTING HEIGHTS.
2. MECHANICAL CONTRACTOR SHALL INSTALL ALL ACCESSORIES FURNISHED WITH UNIT.
3. CONTRACTOR TO INSTALL MERV 8 FILTER AT INSTALLATION OF FAN COIL UNIT, PRIOR TO INITIAL START UP AND PRIOR TO TURN-OVER.
4. PROVIDE TXV, LIQUID LINE DRYER/FILTER, SIGHT GLASS AND MOISTURE INDICATOR FOR EACH CIRCUIT.
5. HIGH WATER ALARM AT FAN COIL UNIT DRAIN PAN AND INTERLOCK TO FAN COIL UNIT TO SHUT DOWN ON ACTIVATION. REFER TO CONDENSATE DRAIN DETAIL ON DRAWING M301 FOR ADDITIONAL INFORMATION.
6. INDOOR UNIT RECEIVES POWER FROM THE OUTDOOR UNIT.
7. MECHANICAL CONTRACTOR TO COORDINATE WITH MANUFACTURER FOR REFRIGERANT LINE SETS DUE TO EXTENDED/LONG LENGTHS (IF NECESSARY). REFRIGERANT LINE SIZES/DIAMETERS TO BE SIZED SO THAT THERE IS NO COOLING OR HEATING CAPACITY LOSS. FINALIZE ROUTING LENGTHS AND RISES BEFORE ORDERING REFRIGERANT LINE SETS. PROVIDE ANY ADDITIONAL ACCESSORIES REQUIRED FROM MANUFACTURER FOR EXTENDED/LONG REFRIGERANT LINE LENGTHS. REFRIGERANT LINES SHALL BE SIZED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCHES FOR FAN COIL UNIT AND HEAT PUMP (COORDINATE WITH EQUIPMENT MANUFACTURER FOR DISCONNECT REQUIREMENTS).
9. FAN COIL UNIT WITHIN LAY-IN CEILING GRID TO BE MOUNTED FROM STRUCTURE WITH ALL THREADED RODS AND NEOPRENE VIBRATION ISOLATORS. DO NOT SUPPORT FROM GRID.
10. EXTERIOR HEAT PUMP WALL MOUNTING BRACKET.

MISCELLANEOUS EQUIPMENT SCHEDULE

TAG	MANUFACTURER & MODEL	DESCRIPTION	REMARKS
BAF 1 & 2	BIG ASS FANS POWER FOIL D	CEILING FAN	• 6 AIR FOIL BLADES AND WINGLETS WITH MILL FINISH ALUMINUM, 12 FEET DIAMETER • 208 / 60 / 1, 10 AMP • "Z" PURLIN MOUNT OPTION (FIELD VERIFY WITH GENERAL CONTRACTOR) • WALL MOUNTED CONTROLLER WITH LED DISPLAY WITH SAFETY DISCONNECT SWITCH INCLUDED • EMI / RFI FILTER • STANDARD POWER ON SHUT DOWN FIRE RELAY INCLUDED. (WIRED BY EC) • UL AND CSA CERTIFIED • INSTALL PER MANUFACTURER INSTRUCTION • WEIGHT (LBS) = 227 • 10 YEAR LIMITED WARRANTY NOTE: THIS IS AN EQUINE PROGRAM, DISCOUNT ASSOCIATED WITH BIG ASS FANS. FANS SHALL BE PURCHASED UNDER THIS PROGRAM.

MECHANICAL EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
GD	BRASCH	GDCP-A MULTI-ZONE CONTROL PANEL GSE-CM-TRA CARBON MONOXIDE SENSOR/TRANSMITTER GSE-ND-TRA NITROGEN DIOXIDE SENSOR/TRANSMITTER	GAS DETECTOR SYSTEM - NITROGEN DIOXIDE (NO2) AND CARBON MONOXIDE (CO).	1. 120 VOLT, 60 HZ, 120 VA INPUT VOLTAGE. 2. NEMA 1 STEEL ENCLOSURE. 3. ELECTRO CHEMICAL SENSOR. 4. DETECTS NITROGEN DIOXIDE AND CARBON MONOXIDE. 5. LOW ALERT ALARM IS 35 PPM FOR CARBON MONOXIDE AND 1.0 PPM FOR NITROGEN DIOXIDE. 6. HIGH ALERT ALARM IS 100 PPM FOR CARBON MONOXIDE AND 5.0 PPM FOR NITROGEN DIOXIDE. 7. MOUNT PANEL AT 5'-0" A.F.F. 8. 120 VOLT / 24 VOLT VENTILATION CONTROL RELAYS. 9. UL 61010B-1 LISTED

SIMILAR MANUFACTURERS BY HONEYWELL OR ARMSTRONG.

COPYRIGHT © 2025

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

© COPYRIGHT 2025, POINT ONE DESIGN LTD. #C25251

ALL WORK ON THIS SHEET BY 15B UNLESS OTHERWISE NOTED.

POINT ONE Design LTD. Consulting Engineers
Columbus, OH | Cleveland, OH
P: 614-540-3500 | P: 440-230-1800
pointonedesign.com

WDC GROUP

REVISIONS:
1. ADDENDUM 3 — 06/02/2026
2. ADDENDUM 7 — 06/29/2026

STATE OF OHIO
NATHANIEL A. MODLICH
REGISTERED PROFESSIONAL ENGINEER

vandalia ohio — small city. big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

MECHANICAL SCHEDULES

PROJECT NO.: 23014
DRAWN BY: JD
DATE: 05-18-2026
CHECKED BY: NAM

M2.0

HEATING, VENTILATING & AIR CONDITIONING SPECIFICATIONS

A. IN RESPECT TO ALL MATERIALS REQUIRED, THE CONTRACTOR SHALL FURNISH MATERIALS MEETING AIEE, NEMA, NELA, ASME AND ASTM SPECIFICATIONS. THE INSTALLATION OF ALL WORK SHALL CONFORM TO ASHRAE GUIDE AND SHEET METAL PROMOTION PLAN STANDARDS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO PAY ALL FEES FOR PERMITS PRIOR TO STARTING WORK.

B. MATERIALS SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED, AND SHALL BE PROTECTED FROM ALL INJURY UNTIL FINAL ACCEPTANCE OF THE SYSTEM. MECHANICAL CONTRACTOR SHALL BE LICENSED IN THIS AREA TO PERFORM THE NEW WORK.

C. THIS CONTRACTOR SHALL REMOVE ALL TOOLS, SURPLUS MATERIALS AND DEBRIS OF ALL KINDS FROM HIS WORK AND LEAVE ALL IN A CLEAN, PERFECT CONDITION, FULLY SATISFACTORY TO THE ARCHITECT.

D. CONTRACTOR SHALL PROVIDE OWNER WITH ONE (1) SET OF "AS-BUILT" DRAWINGS.

E. FURNISH ALL MATERIALS, TRANSPORTATION, RIGGING, HOISTING, ETC. TO PROVIDE A COMPLETE AND OPERABLE HEATING, AIR CONDITIONING AND VENTILATING SYSTEM.

F. ALL EQUIPMENT IS TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, ACCORDING TO MANUFACTURERS RECOMMENDATIONS AND GOOD PRACTICES. COORDINATE ALL WORK WITH OTHER TRADES AND WITH THE GENERAL CONTRACTOR.

G. ALL TEMPERATURE CONTROL WIRING SHALL BE DONE BY THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL FURNISH ALL REQUIRED CONTROLS AND WIRING DIAGRAMS AND SHALL SUPERVISE INSTALLATION.

H. SYSTEM IS TO BE AIR BALANCED BY AN INDEPENDENT BALANCE COMPANY. TO INCLUDE DIFFUSER CFM, RETURN CFM AND EXHAUST CFM WITH THREE (3) REPORTS SUBMITTED TO THE OWNER AND THREE (3) MAINTENANCE MANUALS TURNED OVER TO OWNER BEFORE FINAL ACCEPTANCE. ALL SYSTEMS AND EQUIPMENT ARE TO BE GUARANTEED FOR PARTS AND LABOR FOR ONE YEAR (EXCEPT AIR CONDITIONING COMPRESSOR SHALL HAVE FIVE (5) YEAR WARRANTY).

I. DUCTWORK AND PLENUMS SHALL BE AS SCHEDULED ON THE DRAWINGS PER SMACNA "DUCT CONSTRUCTION" CLASSIFICATION.

1

J. SHEET METAL FABRICATION AND INSTALLATION SHALL BE AS FOLLOWS:

1. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH STANDARDS SET FORTH IN LATEST EDITION OF THE ASHRAE GUIDE AND SMACNA STANDARDS UNLESS MODIFIED HEREIN.
2. DUCT DIMENSIONS ARE GROSS EXCEPT FOR LINED DUCTS WHERE DIMENSIONS ARE NET FREE AREA.
3. DUCT SIZES SHOWN ON THE PLANS ARE ACTUAL SHEET METAL INSIDE DIMENSIONS AND SHALL BE ADHERED TO UNLESS JOB CONDITIONS REQUIRE ALTERATIONS. REVISIONS TO DUCT SIZES SHALL BE BASED ON THE "EQUAL FRICTION" METHOD.
4. ALL ELBOWS IN THE DUCT SYSTEM SHALL BE MADE WITH CENTERLINE RADIUS OF ONE AND ONE-HALF (1 1/2) TIMES THE TURNING WIDTH OF THE DUCT. WHERE SPACE PROHIBITS THE SPECIFIED MINIMUM RADIUS, SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES SHALL BE INSTALLED. CHANGES IN DUCT SIZES SHALL BE 15 DEG. DIVERGING AND 60 DEG. CONTRACTING, FLOW MAXIMUM ANGLES.
5. THE GENERAL ROUTE OF THE DUCTS IS SHOWN ON THE PLANS. THE EXACT ROUTE SHALL BE DETERMINED BY JOB CONDITIONS AND SHALL BE COORDINATED WITH ALL OTHER TRADES. ALL GRILLES, REGISTERS, DIFFUSERS, ETC., SHALL BE LOCATED SYMMETRICALLY WITH ELECTRIC LIGHT ARCHITECTURAL TREATMENT, ETC.
6. HANGERS TO BE 8 FT. CENTERS MAXIMUM WITH STRAPS FOR DUCTS (BENT UNDER BOTTOM OF DUCT AND ATTACHED). DUCTWORK SHALL BE SEALED.
7. INSTALL DUCTWORK TIGHT TO BOTTOM OF STRUCTURAL STEEL.
8. NO FIBERGLASS DUCTBOARD WILL BE PERMITTED.

K. FURNISH AND INSTALL ALL MANUAL SPLITTER DAMPERS AND DEFLECTORS INDICATED ON DRAWINGS OR NECESSARY TO PROPERLY DISTRIBUTE AND BALANCE AIR.

L. HVAC EQUIPMENT SHALL BE AS SCHEDULED ON DRAWING.

M. INSULATION SHALL BE AS FOLLOWS:

1. ALL INSULATION, VAPOR BARRIER, JACKETS AND ADHESIVE USED FOR APPLYING INSULATION SHALL HAVE FIRE AND SMOKE HAZARD RATINGS AS TESTED UNDER ASTM-84, NFPA-255, AND U.L. 723 NOT EXCEEDING A FLAME SPREAD 25 AND SMOKE DEVELOPED OF 50.
2. ALL NEW CONCEALED SUPPLY AIR DUCTWORK SHALL BE WRAPPED WITH OWENS-CORNING TYPE 150, 1-1/2" DUCT WRAP (6.0 R-VALUE). TAPE ALL SEAMS WITH MINIMUM 2" WIDE TAPE. RETURN AIR DUCTWORK SHALL BE LINED WITH 1" ACOUSTIC LINING, OWENS-CORNING TYPE 300.
3. DUCTS PASSING THRU ROOF SHALL BE PROVIDED WITH INSULATED ROOF CURB AND COUNTERFLASHING.
4. OTHER APPROVED MANUFACTURERS: MANSVILLE, KNAUF, CERTAINTEED.

N. PROVIDE WITH SPIN-IN TRUNK CONNECTIONS WITH AIR SCOOP AND VOLUME DAMPER.

O. FLEXIBLE CONNECTION AT THE INLET AND OUTLET OF THE AIR MOVING UNIT, EXHAUST FANS AND HVAC UNIT CONNECTED TO DUCTWORK. MATERIALS SHALL BE NON-COMBUSTIBLE TWELVE (12) OUNCES PER SQUARE YARD, NFPA-90A APPROVED.

P. PROVIDE NEW HONEYWELL T7300A PROGRAMMABLE THERMOSTAT WITH SUBBASE TO PERFORM 2-STATE COOLING WITH ECONOMIZER CONTROL, 2-STAGE HEATING FOR GAS HEAT, LOCKABLE COVER, 7-DAY TIME CLOCK AUTOMATIC CHANGEOVER.

Q. FLEXIBLE INSULATED DUCT SHALL BE THERMAFLEX TYPE M-KE FACTORY ASSEMBLED DUCT CONSISTING OF COLD ROLLED FLAT STEEL SPRING, CONTINUOUS NON-PERFORATED INNER AIR SEAL LINER, 0.23 THERMAL CONDUCTANCE FIBERGLASS INSULATION, AND FIBERGLASS REINFORCED METALIZED FILM VAPOR BARRIER. DUCTS SHALL BE LISTED BY UL, CONFORM TO NFPA CLASS I WITH FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPMENT OF 50 OR LESS.

FLEXIBLE NON-INSULATED DUCT SHALL BE THERMFLEX TYPE S-LD FACTORY ASSEMBLED DUCT CONSISTING OF A REINFORCED FILM LAMINATE PERMANENTLY BONDED TO A CORROSION RESISTANT SPRING STEEL WIRE HELIX. DUCTS SHALL BE LISTED BY UL, CONFORM TO NFPA CLASS I CONNECTOR WITH FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPED OF 50 OR LESS.

GENERAL NOTES:

1. THE MECHANICAL CONTRACTOR SHALL ALSO ARRANGE THE FINAL INSPECTIONS BY THE BUILDING AUTHORITIES.
2. NO PIPING, HANGERS, DUCTWORK, ETC., SHALL BE SUSPENDED FROM ROOF DECK. ALL ITEMS SHALL BE SUSPENDED FROM STRUCTURAL STEEL.
3. ALL ROOF EQUIPMENT (ROOF CURBS, EQUIPMENT SUPPORTS AND MISCELLANEOUS STEEL ANGLE FRAMING AND/OR SUPPORTS) SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. THE FLASHING OF TENANT OCCUPANCY ROOF EQUIPMENT SHALL BE DONE BY THE GENERAL CONTRACTOR'S ROOFING SUBCONTRACTOR AT THE MECHANICAL CONTRACTOR'S EXPENSE. CUTTING OF REQUIRED ROOF OPENINGS SHALL BE DONE BY THE ROOFING SUBCONTRACTOR AT THE MECHANICAL CONTRACTOR'S EXPENSE. A MEETING SHALL BE ARRANGED AT THE JOBSITE WITH THE MECHANICAL CONTRACTOR SO THAT THE ROOFING SUBCONTRACTOR CAN DETERMINE THE SCOPE OF WORK INVOLVED. THE PROJECT MANAGER DURING CONSTRUCTION PERIOD OR WHEN CONSTRUCTION IS BEGINNING WILL MAKE THE NECESSARY ARRANGEMENTS FOR THIS MEETING.
4. MECHANICAL CONTRACTOR TO MAINTAIN MINIMUM 10 FEET BETWEEN EXHAUST VENTS, FANS, ETC., AND OUTSIDE AIR INTAKES.
5. MECHANICAL CONTRACTOR SHALL VERIFY VOLTAGES WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING OF ANY AND ALL MECHANICAL EQUIPMENT.
6. MECHANICAL CONTRACTOR SHALL INSURE A MINIMUM 10'-0" WORKING CLEARANCE FROM EDGE OF BUILDING.

REFRIGERANT PIPING NOTES:

1. A/C CONDENSATE DRAIN PIPING SHALL BE TYPE 'L' HARD DRAWN COPPER TUBING (ASTM B-88 LATEST REVISION) WITH WROUGHT COPPER FITTING AND SOLDERED JOINTS WITH 95-5 TIN ANTIMONY.
2. CONNECTION BETWEEN COPPER PIPING AND FERROUS PIPING OR EQUIPMENT SHALL BE MADE WITH DIELECTRIC UNION.
3. REFRIGERANT PIPING SHALL BE TYPE 'L' HARD DRAWN COPPER (REFRIGERATION GRADE ARC) WROUGHT COPPER FITTINGS (LONG RADIUS ELBOWS). COPPER TO BRASS OR STEEL JOINTS SHALL BE MADE USING A 45% SILVER ALLOY SUCH AS 'EASY-FLO' WITH FLUX. INERT NITROGEN SHALL BE PASSED THROUGH THE PIPING DURING BRAZING OPERATIONS TO PREVENT OXIDATION. PIPING SHALL BE CUT USING TUBING CUTTER ONLY, HACKSAW CUTS ARE PROHIBITED.
4. AFTER THE INSTALLATION IS COMPLETE, LEAK TEST THE COMPLETE SYSTEM USING A MIXTURE OF NITROGEN AND SYSTEM REFRIGERANT PRESSURIZED TO 75 PSIG.
5. AFTER LEAK TESTING, THE ENTIRE PIPING SYSTEM SHALL BE EVACUATED TO 1,500 MICRONS.
6. AFTER EVACUATION, THE SYSTEM SHALL BE CHARGED WITH THE PROPER AMOUNT OF REFRIGERANT FOR DESIGNED OPERATION.
7. THE REFRIGERANT LINES MAY BE PRE-ENGINEERED SYSTEM BY UNIT MANUFACTURER INSTEAD OF MATERIAL LISTED ABOVE.
8. PIPING INSULATION
   A) REFRIGERANT PIPING SUCTION LINE TO BE INSULATED WITH 1" THICK ARMAFLEX PIPE INSULATION.
   B) CONDENSATE DRAIN LINE FROM AHU TO BE INSULATED WITH 1" THICK ARMAFLEX PIPE INSULATION.

MECHANICAL GENERAL

A. THE CONTRACTOR FOR THIS WORK IS REFERRED TO "INSTRUCTIONS TO BIDDERS" AND "GENERAL CONDITIONS" AND "SPECIAL CONDITIONS" AS PART OF THIS CONTRACT.

B. CONTRACTOR ALSO REFERRED TO ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER OWNER DRAWINGS PERTAINING TO PROJECT. ALL OF ABOVE MENTIONED DRAWINGS, AS WELL AS THEIR RESPECTIVE SPECIFICATIONS, ARE A PART OF CONTRACT DOCUMENTS.

C. MECHANICAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER, FURNISH ANY MATERIAL OR LABOR CALLED FOR IN ONE EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH.

D. INSTALL AND CONNECT EQUIPMENT, SERVICES AND MATERIALS IN ACCORDANCE WITH BEST ENGINEERING PRACTICE AND ACCORDANCE WITH VARIOUS MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. FURNISH AND INSTALL COMPLETE AUXILIARY PIPING, VALVES, WATER SEALS, ELECTRICAL CONNECTIONS, ETC., RECOMMENDED BY MANUFACTURER OR REQUIRED FOR PROPER OPERATION.

E. FURNISH MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON DRAWINGS OR CALLED FOR IN SPECIFICATIONS BUT WHICH IS OBVIOUSLY A COMPONENT PART OF AND NECESSARY TO COMPLETE WORK OF SIMILAR CHARACTER.

F. THIS CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS OR LICENSES REQUIRED TO CARRY OUT THIS WORK. HE SHALL PAY FOR ALL CHARGES MADE BY INSPECTION. NOTE: ALL CONTRACTORS SHALL BE LICENSED IN THE COUNTY, CITY, ETC. TO PERFORM ALL NEW WORK.

G. THIS CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND ALL LOCAL LEGAL REQUIREMENTS. ALL LAWS, RULES AND REGULATIONS OF STATE AND LOCAL GOVERNING AGENCIES SHALL BE CONSIDERED A PART OF THESE SPECIFICATIONS AS FULLY AS IF WRITTEN HEREIN. NO EXTRA COMPENSATION WILL BE ALLOWED FOR ANY CHANGES NECESSARY FOR CODE COMPLIANCE REGARDLESS OF THE METHOD OF INSTALLATION SHOWN ON THE DRAWINGS OR SPECIFIED.

H. THIS CONTRACTOR SHALL TAKE OUT PERMIT WITH PROVISIONS OF INSPECTION BEFORE STARTING ANY WORK. FEE FOR SAME SHALL BE PART OF THIS CONTRACT.

I. WHEN WORK IS COMPLETED, THIS CONTRACTOR SHALL FURNISH TO THE ARCHITECT CERTIFICATES OF APPROVAL FROM THE RESPONSIBLE INSPECTION AGENCIES BEFORE FINAL PAYMENT OF CONTRACT WILL BE ALLOWED.

J. TESTING OF ALL WORK UNDER THIS CONTRACT SHALL BE DONE BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE. ALL APPARATUS, EQUIPMENT, FIXTURES, ETC., SHALL FULLY MEET THE REQUIREMENTS OF THESE SPECIFICATIONS AND DRAWINGS.

K. INSTALL FINAL APPLICATION OF LUBRICATION OIL, REFRIGERANT CHARGE, AND ALL OTHER SUPPLIES NECESSARY TO PLACE THE EQUIPMENT IN OPERATION.

L. CONTRACTOR SHALL GUARANTEE HIS WORK TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

M. ALL POWER WIRING OF MECHANICAL EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR. FURNISH THE ELECTRICAL CONTRACTOR WIRING DIAGRAMS FOR ALL ELECTRICALLY POWERED EQUIPMENT PROVIDED WITH THE CONTRACT WHICH SHALL INDICATE THE SERVICE REQUIRED AND ELECTRIC LOAD INVOLVED.

N. THIS CONTRACTOR SHALL VISIT SITE BEFORE SUBMITTING BID AND MAKE ALL NECESSARY OBSERVATIONS, MEASUREMENTS, AND NOTE CONDITIONS UNDER WHICH HIS WORK IS TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO DO SO. THIS CONTRACT INVOLVES REMODELING OF EXISTING BUILDING AND THEREFORE SHALL FIELD LOCATE EXISTING DUCTWORK, PIPING AND SEWERS BEFORE STARTING WORK.

O. SUBMIT SHOP DRAWINGS, CATALOG SHEETS FOR EQUIPMENT, FIXTURES, DUCTWORK LAYOUT, WIRING DIAGRAMS, ETC., IN PDF FORMAT TO THE ARCHITECT FOR REVIEW. EACH CONTRACTOR IS RESPONSIBLE TO DISTRIBUTE APPROVED SHOP DRAWINGS TO ALL OTHER TRADES AFFECTED BY HIS WORK, EQUIPMENT, ETC., FOR COORDINATION.

P. ASSEMBLE AND SUBMIT TO THE ARCHITECT FOR SUBSEQUENT SUBMISSION TO THE OWNER, THREE (3) COMPLETE SETS OF OPERATIONS MANUALS AND MAINTENANCE REQUIREMENTS, COPY OF FIXTURE CUTS WITH MANUFACTURER'S NAME AND MODEL NUMBER, EQUIPMENT WARRANTIES, ETC., FOR EACH ITEM FURNISHED.

Q. ALL CONTRACTORS MUST COORDINATE EACH PIECE OF EQUIPMENT WITH ALL OTHER TRADES (GENERAL CONTRACTOR, PLUMBING CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, ETC.) AFFECTED BY THAT PIECE OF EQUIPMENT (ROOF OPENINGS, WEIGHTS, POWER REQUIREMENTS, VOLTAGES, ETC.) PRIOR TO ORDERING EQUIPMENT AND AGAIN PRIOR TO INSTALLATION (ROOFTOP EQUIPMENT PRIOR TO LIFTING ONTO ROOF). NO EXTRA COMPENSATION WILL BE APPROVED IF COORDINATION IS NOT PERFORMED BY EACH RESPECTIVE CONTRACTOR AND SUBCONTRACTOR.

R. CONTRACTOR HAS EXAMINED THE CONTRACT DOCUMENTS AND REPRESENTS TO OWNER THAT THE CONTRACT DOCUMENTS ARE COMPLETE AND SUFFICIENT AND INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK FOR THE CONTRACT SUM. CONTRACTOR FURTHER REPRESENTS THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS BECOME FAMILIAR WITH THE ACCESS REQUIREMENTS AND OTHER CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND HAS RECEIVED ALL CLARIFICATIONS NEEDED BY CONTRACTOR TO ASSURE ITSELF THAT THE WORK CAN BE PERFORMED FOR THE CONTRACT SUM. IF THERE IS ANY INCONSISTENCY IN THE QUALITY OR QUANTITY OF WORK REQUIRED UNDER THE CONTRACT DOCUMENTS, OR SHOULD THE DRAWINGS AND SPECIFICATIONS APPEAR TO BE IN DISAGREEMENT WITH EACH OTHER RELATIVE TO THE QUALITY OR QUANTITY OF WORK REQUIRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY AND/OR GREATER QUANTITY UNLESS WRITTEN INSTRUCTIONS ARE OTHERWISE FURNISHED TO CONTRACTOR BY OWNER.

S. DEVIATIONS FROM THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN OWNER OR ARCHITECT CONSENT WILL BE AT RISK TO THE G.C. ANY EFFORT MADE BY THE ARCHITECT AND/OR ENGINEER TO MODIFY THE CONSTRUCTION DOCUMENTS OR LETTERS OF RESPONSIBILITY FOR APPROVAL BY INSPECTORS DUE TO WORK PERFORMED BY CONTRACTOR OTHER THAN THE ORIGINAL DESIGN WILL BE BILLED TO CLIENT WHO WILL BACK CHARGE TO G.C. AS A DEDUCT FROM THEIR PAYMENTS.

T. NOTE: THE MECHANICAL AND PLUMBING CADD FILES OF THE CONSTRUCTION DOCUMENTS ARE THE INTELLECTUAL PROPERTY OF POINT ONE DESIGN, LLC, AND WILL NOT BE AVAILABLE FOR THE CONSTRUCTION PHASE UNLESS MET WITH A REDUCTION IN COST TO THE OWNER AND/OR PURCHASED AT A NOMINAL RATE PER DRAWING (TO BE NEGOTIATED).

U. FIRESTOPPING
1. MANUFACTURERS: DOW CORNING CORP., HILTI CORP., 3M FIRE PROTECTION PRODUCTS, SPECIFIED TECHNOLOGY INC., OR METRAFLEX.
2. PRODUCT DESCRIPTION: DIFFERENT TYPES OF PRODUCTS BY MULTIPLE MANUFACTURERS ARE ACCEPTABLE AS REQUIRED TO MEET SPECIFIED SYSTEM DESCRIPTION AND PERFORMANCE REQUIREMENTS; PROVIDE ONLY ONE TYPE FOR EACH SIMILAR APPLICATION.
   a. SILICONE FIRESTOPPING ELASTOMERIC FIRESTOPPING: SINGLE OR MULTIPLE COMPONENT SILICONE.
   b. ELASTOMERIC COMPOUND AND COMPATIBLE SILICONE SEALANT.
   c. FOAM FIRESTOPPING COMPOUNDS: SINGLE OR MULTIPLE COMPONENT FOAM COMPOUND.
   d. FORMULATED FIRESTOPPING COMPOUND OF INCOMBUSTIBLE FIBERS: FORMULATED COMPOUND MIXED WITH INCOMBUSTIBLE NON-ASBESTOS FIBERS.
   e. FIBER STUFFING AND SEALANT FIRESTOPPING: COMPOSITE OF MINERAL FIBER STUFFING INSULATION WITH SILICONE ELASTOMER FOR SMOKE STOPPING.
   f. MECHANICAL FIRESTOPPING DEVICE WITH FILLERS: MECHANICAL DEVICE WITH INCOMBUSTIBLE FILLERS AND SILICONE ELASTOMER, COVERED WITH SHEET STAINLESS STEEL JACKET, JOINED WITH COLLARS, PENETRATION SEALED WITH FLANGED STOPS.
   g. INTUMESCENT FIRESTOPPING: INTUMESCENT PUTTY COMPOUND WHICH EXPANDS ON EXPOSURE TO SURFACE HEAT GAIN.
   h. FIRESTOP PILLOWS: FORMED MINERAL FIBER PILLOWS.

ALL WORK ON THIS SHEET BY 15B UNLESS OTHERWISE NOTED.

© COPYRIGHT 2025, POINT ONE DESIGN, LTD. #C25251

COPYRIGHT © 2025

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

POINT ONE DESIGN LTD.
Consulting Engineers
Columbus, OH | Cleveland, OH
P: 614-540-3500 | P: 440-230-1800
pointonedesign.com

WDC GROUP

REVISIONS:
1 ADDENDUM 3 06/03/2026
2 ADDENDUM 7 06/29/2026

STATE OF OHIO
NATHANIEL A. MODLICH
REGISTERED PROFESSIONAL ENGINEER

andalia ohio
small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45377
MECHANICAL SPECIFICATIONS

PROJECT NO.: 23014
DRAWN BY: JD
DATE: 05-18-2026
CHECKED BY: NAM

M4.0

ELECTRICAL LEGEND

ELECTRICAL LEGEND NOTES:
1. MOUNTING HEIGHTS INDICATED ARE TO THE TOP OF THE DEVICE OR FIXTURE.
2. MOUNTING HEIGHTS ARE TYPICAL UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION ON EXACT DEVICE AND FIXTURE LOCATIONS, MOUNTING HEIGHTS AND COORDINATION WITH ARCHITECTURAL HARDWARE AND FIXTURES.
4. NOT ALL SYMBOLS APPLY.

LIGHTING		POWER	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
$	WALL SWITCH @48" A.F.F. 20A, 120V		DUPLEX RECEPTACLE @20" A.F.F, 20A, 125V
$3	THREE-WAY SWITCH @48" A.F.F., 20A, 120V		DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER @20" A.F.F.; 20A, 125V
$D	WALL SWITCH @48" A.F.F. 20A, 120V	WP	DUPLEX RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER @18" A.F.F. OR A.F.G. 20A, 125V
OS	OCCUPANCY SENSOR WALL MOUNTED @48" A.F.F.		DOUBLE DUPLEX RECEPTACLE @ 20" A.F.F, 20A, 125V
OS	OCCUPANCY SENSOR CEILING MOUNTED		SPECIAL RECEPTACLE AMPERAGE. @20" A.F.F COORDINATE NEMA CONFIG. WITH EQUIPMENT FED.
	LIGHTING OUTLET, RECESSED OR SURFACE MOUNTED PER FIXTURE SCHEDULE.	J	JUNCTION BOX MOUNTED AS NOTED.
NL	LIGHT FIXTURE ON NIGHT LIGHT		SAFETY DISCONNECT SWITCH @60" A.F.F. TO TOP
	CEILING LIGHTING OUTLET, RECESSED OR SURFACE MOUNTED PER FIXTURE SCHEDULE		PANELBOARD, SURFACE MOUNTED @6'-0" A.F.F. TO TOP
	WALL LIGHTING OUTLET @ HEIGHT PER FIXTURE SCHEDULE OF ARCHITECTURAL ELEVATIONS.		PANELBOARD, FLUSH MOUNTED @6'-0" A.F.F. TO TOP
	EMERGENCY EXIT LIGHT, SINGLE FACE, CLG. MOUNTED.	EF	CEILING EXHAUST FAN BY M.C. WIRED BY (FURN E.C.) MAKE ALL CONNECTIONS AS INDICATED ON DRAWING.
	EMERGENCY EXIT LIGHT, SINGLE FACE, WALL MOUNTED		4" SQ. BOX W/G PLASTER RING @20" A.F.F FOR DATA OUTLET. COVERPLATE WIRING & TERMINATION BY OWNER RUN 3/4"C. FROM BOX UP IN WALL TO ABOVE ACCESSIBLE CEILING
	COMBINATION EMERGENCY EXIT/EGRESS LIGHT, SINGLE FACE, CEILING MOUNTED		
	EMERGENCY EGRESS LIGHT @90" A.F.F WALL MOUNTED	OSD	COMBINATION OCCUPANCY DIMMER(ON)/SENSOR(OFF) @48" AFF
EMR	EMERGENCY REMOTE HEAD FOR EXIT DISCHARGE		

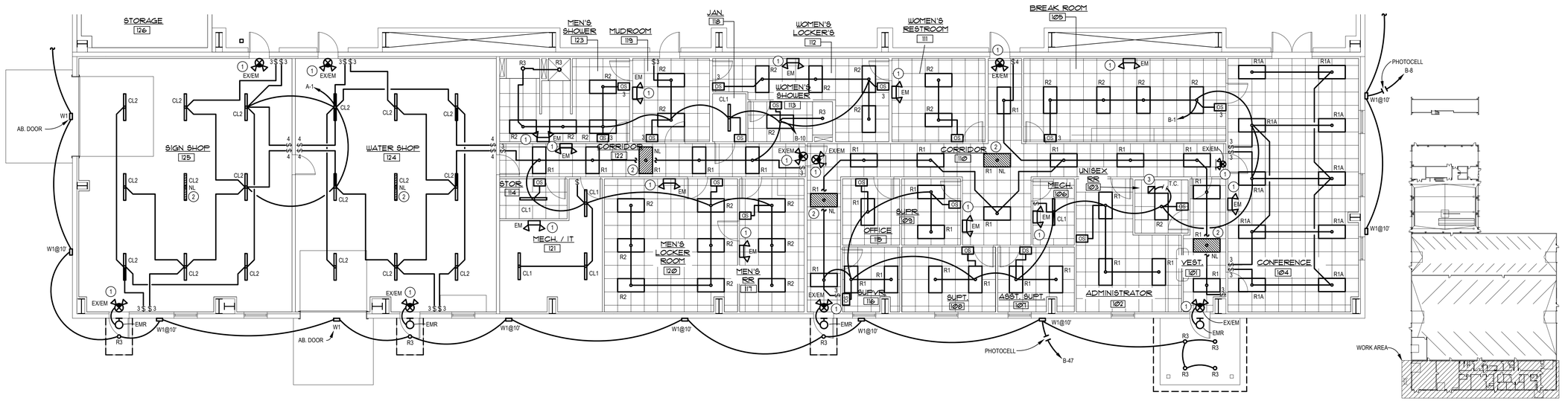
LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	VOLT	LAMP	MOUNT	MANUFACTURER
CL1	4' LED STRIP	120	18.5 W LED 3000 LUM 4000 K	SURFACE CEILING	LITHONIA CLX-L48-3000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH
CL2	4' LED STRIP, FURNISH ALL MOUNTING HARDWARE.	120	46.6 W LED 7000 LUM 4000 K	CEILING/ROOF STRUCTURE AS HIGH AS POSS.	LITHONIA CLX-L48-7000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH
CL3	LED HIGHBAY, FURNISH ALL MOUNTING HARDWARE & ACCESSORIES.	120	133 W 18000 LUM 4000 K	CEILING/ROOF STRUCTURE AS HIGH AS POSS.	LITHONIA CPHB-18000LM-SEF-GCL-MD-MVOLT-GZ10-40K-80CRI
CL4	8' VAPORTIGHT LINEAR LED STRIP, WET LOCATION, STAINLESS STEAL LATCHES. FURNISH ALL MOUNTING HARDWARE & ACCESSORIES.	120	84 W LED 10000 LUM 5000 K	CEILING / STRUCTURE	LITHONIA CSVT-L96-10000LM-MVOLT-40K-80CRI-STSL
CL5	8' VAPORTIGHT LED STRIP, STAINLESS STEEL LATCHES, FURNISH ALL MOUNTING HARDWARE & ACCESSORIES	120	103 W LED 12000 LUM 4000 K	CEILING/ROOF STRUCTURE AS HIGH AS POSS.	LITHONIA CVST-12000LM-MVOLT-40K-80CRI-STSL
CL6	4' ENCLOSED & GASKETED LINEAR LED STRIP, WET LOCATION, STAINLESS STEEL LATCHES. FURNISH ALL MOUNTING HARDWARE & ACCESSORIES.	120	51 W LED 8000 LUM 5000 K	CEILING / STRUCTURE	LITHONIA FEM-L48-8000LM-LPAFL-WD-MVOLT-GZ10-50K-80CRI-STSL
R1	2'X4' LED VOLUMETRIC	120	24.1 W 3000 LUM 3500 K	RECESSED LAY-IN	LITHONIA STAK-2X4-3000LM-80CRI-35K-COL-MIN10-MVOLT
R1A	2'X4' LED VOLUMETRIC	120	33.3 W 4000 LUM 3500 K	RECESSED LAY-IN	LITHONIA STAK-2X4-4000LM-80CRI-35K-COL-MIN10-MVOLT
R2	2'X4' LED PANEL, LOW LUMEN SETTING	120	25.9 W LED 4000 LUM 3500 K	RECESSED LAY-IN	LITHONIA CPX-2X4-AL08-80CRI-SWW7-SWL-MVOLT
R3	6" LED DOWNLIGHT, WET LOCATION LISTED W/ COVERED CEILING	120	13 W LED 1600 LUM 3500 K	RECESSED CEILING	LITHONIA LBR6-MCH-AL02-SWW1-AR-LSS-MWD-MVOLT-UGZ-WL
W1	EXTERIOR LED WALLPACK, WET LOCATION LISTED, BLACK FINISH	120	21 W LED 3231 LUM 4000 K	EXTERIOR WALL @ HEIGHT NOTED	LITHONIA DSXW-P3-40K-80CRI-TFTM-MVOLT-DDBXD
W2	EXTERIOR LED WALLPACK, WET LOCATION LISTED, BLACK FINISH.	120	73 W LED 10354 LUM 4000 K	EXTERIOR WALL @ HEIGHT NOTED	LITHONIA DSXW-P7-40K-80CRI-TFTM-MVOLT-DDBXD
EX/EM	SELF CONTAINED EMERGENCY EXIT COMBO SINGLE FACE	120	LED FURNISHED W / UNIT	UNIVERSAL	LITHONIA QUANTUM SERIES
EMR	EXIT DISCHARGE REMOTE HEAD POWERED FROM "EX/EM"	LV	LED FURNISHED W / UNIT	EXT. WALL ADJACENT TO DOOR	LITHONIA ERE SERIES
EM	SELF CONTAINED EMERGENCY EGRESS LIGHT	120	LED FURNISHED W / UNIT	WALL @ 90° OR STRUCTURE	LITHONIA EU2L SERIES
EMA	HIGH LUMEN EMERGENCY EGRESS LIGHT	120	LED FURNISHED W / UNIT	CEILING STRUCTURE	LITHONIA
EMAH	HIGH LUMEN HAZARDOUS LOCATION EMERGENCY EGRESS	120	LED FURNISHED W / UNIT	UNIVERSAL	LITHONIA WLTC-I-R
EX/EM/W	SELF CONTAINED EMERGENCY EXIT COMBO UNIT, WET LOCATION LISTED.	120	LED FURNISHED W / UNIT	UNIVERSAL	LITHONIA QUANTUM SERIES
EMW	SELF CONTAINED EMERGENCY EGRESS LIGHT, WET LOCATION LISTED.	120	LED FURNISHED W / UNIT	WALL @ 90° OR STRUCTURE	LITHONIA WLTU-GY-MR

NOTES:
1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.
2. EQUAL FIXTURES BY COOPER, HUBBELL, LSI, PHILLIPS OR LITHONIA.

LIGHTING CODED NOTES

1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.
2. CONNECT OFFICE & SHOP NIGHT LIGHTS (NL) TO CIRCUIT B-45.
3. EXH. FAN EF-13, 80 WATT, 120V. WIRE THROUGH TIME CLOCK (BY E.C.) CONNECT TO ROOM LIGHTING CIRCUIT AHEAD OF SWITCH.



LIGHTING PLAN 'A'

SCALE:1/8" = 1'-0"

KEY PLAN

N.T.S.

ALL WORK ON THIS SHEET BY 16A UNLESS OTHERWISE NOTED.

© COPYRIGHT 2025, POINT ONE DESIGN LTD. #C22521

COPYRIGHT © 2025

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

POINT ONE DESIGN LTD. Consulting Engineers
Columbus, OH | Cleveland, OH
P: 614-540-3500 | P: 440-230-1800
pointonedesign.com

WDC GROUP

REVISIONS:
1 ADDENDUM 3 06/03/2026
2 ADDENDUM 7 06/29/2026

vandalia ohio small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

LIGHTING PLAN 'A'

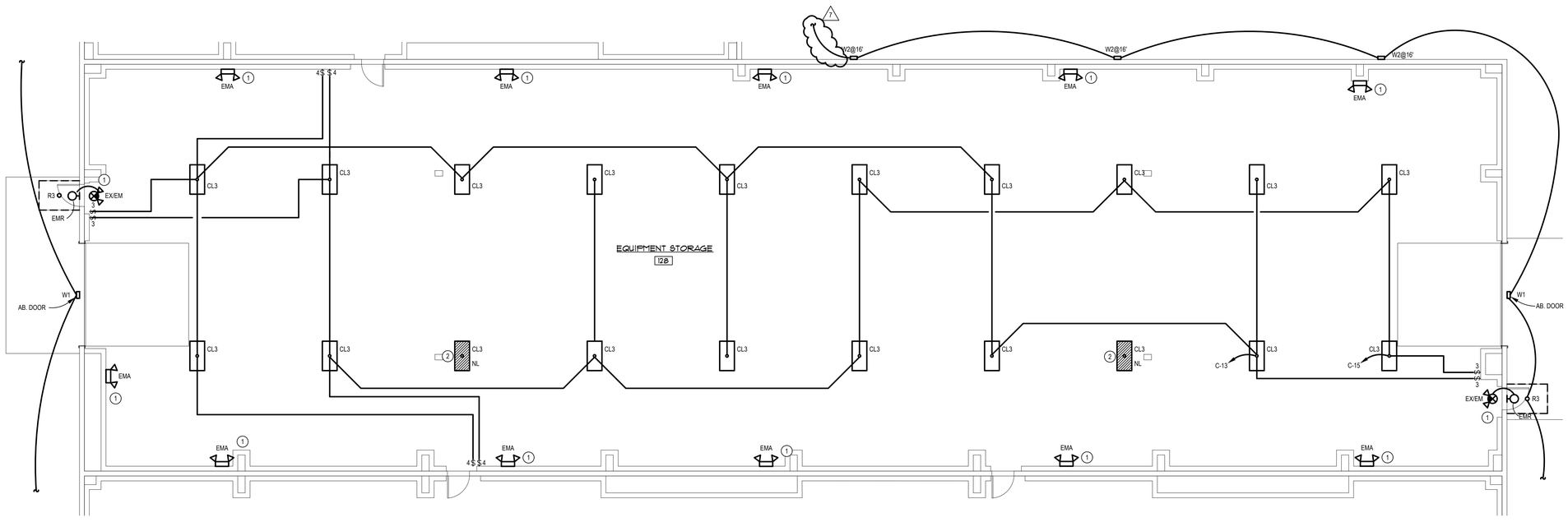
PROJECT NO.: 23014
DRAWN BY: TSP
DATE: 05-18-2026
CHECKED BY: VWE

E1.1

96 OF 112

LIGHTING CODED NOTES

1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.
2. CONNECT EQUIPMENT STORAGE NIGHT LIGHTS (NL) TO CIRCUIT C-45.



LIGHTING PLAN 'C'

SCALE:1/8" = 1'-0"

KEY PLAN

N.T.S.

ALL WORK ON THIS SHEET BY 16A UNLESS OTHERWISE NOTED.

© COPYRIGHT 2025, POINT ONE DESIGN LTD. #C22521

COPYRIGHT © 2025

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

POINT ONE Design LTD. Consulting Engineers
Columbus, OH | Cleveland, OH
P: 614-540-3500 | P: 440-230-1800
pointonedesign.com

WDC GROUP

REVISIONS:

1	ADDENDUM 3	06/03/2026
2	ADDENDUM 7	06/29/2026

VIRGIL W. ELLETT E-86261 STATE OF OHIO PROFESSIONAL ENGINEER

vandalia ohio small city, big opportunity.

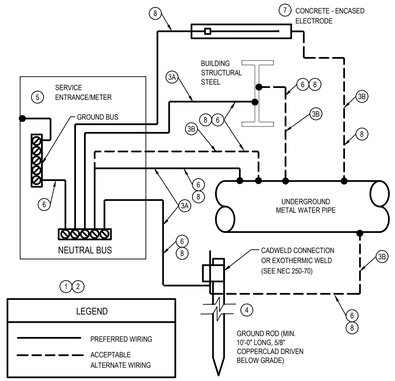
A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

LIGHTING PLAN 'C'

PROJECT NO.: 23014
DRAWN BY: TSP
DATE: 05-18-2026
CHECKED BY: VWE

E1.3

98 OF 112



SERVICE ENTRANCE GROUNDING DETAIL

NO SCALE

CODED NOTES:

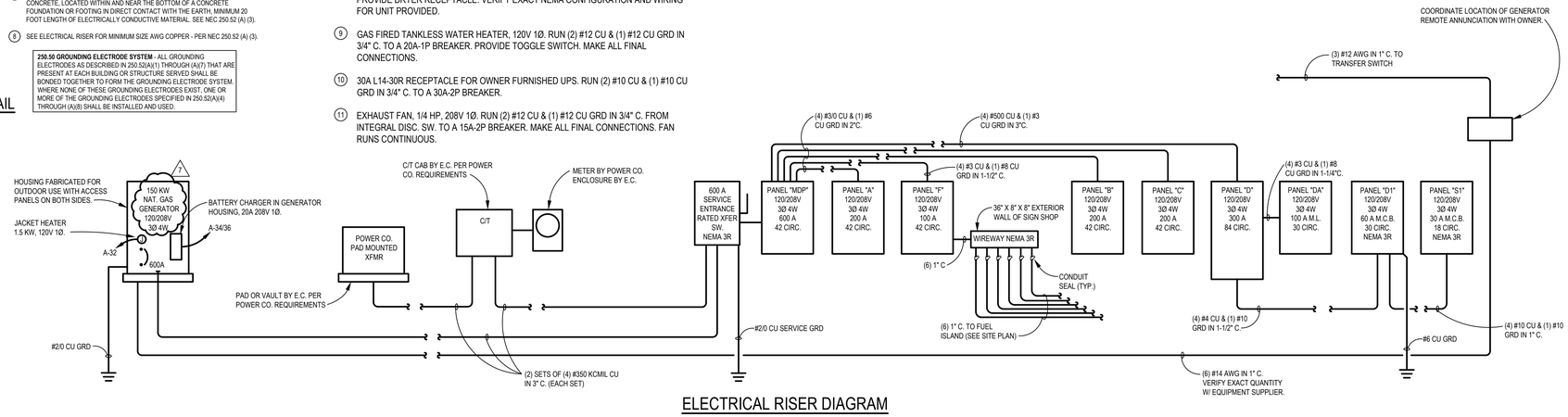
1. ALL GROUNDING AND BONDING MUST COMPLY WITH NEC ARTICLE 250 AND/ OR LOCAL ORDINANCES.
2. USE NEC TABLE 250-66 TO SIZE BONDING CONDUCTORS/JUMPERS. BONDING JUMPERS MUST BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 250-68.
3A. BOND GROUND ROD, METAL WATER PIPE, BUILDING STEEL OR METAL (WHERE EFFECTIVELY GROUNDED) AND CONCRETE-ENCASED ELECTRODE (SEE CODED NOTE 7). CONNECTION TO METAL WATER PIPE SHALL BE MADE WITHIN 5 FEET OF POINT OF ENTRANCE OF PIPE PER NEC 250.52 (A) (1).
3B. ALTERNATE BONDING SCHEME: BOND GROUND ROD, BUILDING STEEL OR METAL (WHERE EFFECTIVELY GROUNDED) AND CONCRETE-ENCASED ELECTRODE (SEE CODED NOTE 7) TO METAL WATER PIPE. CONNECTIONS TO METAL WATER PIPE SHALL BE MADE WITHIN 5 FEET OF POINT OF ENTRANCE OF PIPE PER NEC 250.52 (A) (1).
4. LOCATE GROUND ROD OUTSIDE BUILDING WALL NEAR SERVICE ENTRANCE. IF MEASURED RESISTANCE BETWEEN GROUND ROD AND EARTH IS 25 OHMS OR LESS, A SINGLE GROUND ROD IS REQUIRED. IF MEASURED RESISTANCE IS GREATER THAN 25 OHMS, INSTALL SUPPLEMENTAL ELECTRODE, NOT LESS THAN 6'-0" APART FROM ORIGINAL GROUND ROD, PER NEC 250.53 (A) (2) & (3).
5. PROTECT GROUNDING AND BONDING CONDUCTORS WHERE THEY PENETRATE CONCRETE FOUNDATIONS.
6. SIZE CONDUCTOR PER NEC TABLE 250.66 AND NEC ARTICLE 250.66.
7. CONCRETE-ENCASED ELECTRODE ENCASED WITHIN AT LEAST 2 INCHES OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING IN DIRECT CONTACT WITH THE EARTH, MINIMUM 20 FOOT LENGTH OF ELECTRICALLY CONDUCTIVE MATERIAL. SEE NEC 250.52 (A) (3).
8. SEE ELECTRICAL RISER FOR MINIMUM SIZE AWG COPPER - PER NEC 250.52 (A) (3).

250.50 GROUNDING ELECTRODE SYSTEM - ALL GROUNDING ELECTRODES AS DESCRIBED IN 250.52(A)(1) THROUGH (A)(7) THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN 250.52(A)(4) THROUGH (A)(8) SHALL BE INSTALLED AND USED.

ELECTRICAL CODED NOTES

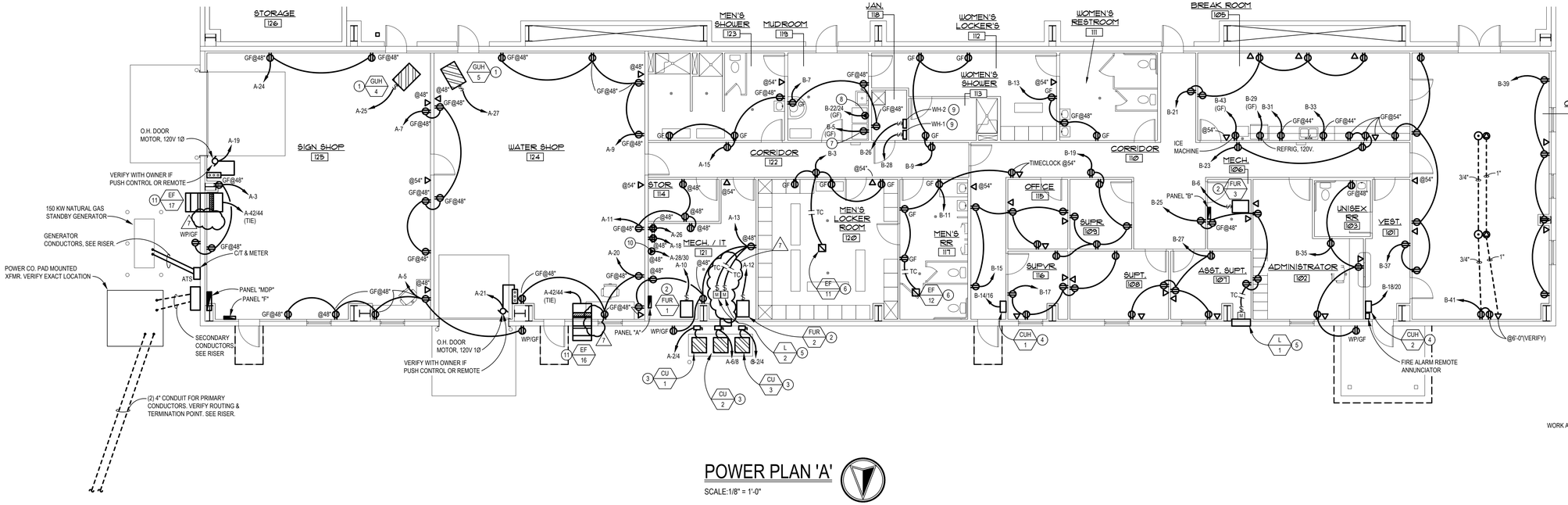
1. GAS UNIT HEATER, 7.1 F.L.A., 120V 1Ø. RUN (3) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM TOGGLE SWITCH (BY E.C.) TO A 15A-1P BREAKER. MAKE ALL FINAL CONNECTIONS.
2. GAS FURNACE, 1.0 HP, 120V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM TOGGLE SWITCH (BY E.C.) TO A 20A-1P BREAKER. MAKE ALL FINAL CONNECTIONS.
3. CONDENSING UNIT, 208V 1Ø. RUN (2) #8 CU & (1) #10 CU GRD IN 3/4" C. FROM A 60A-2P WP. DISC. SW. (BY E.C.) TO A 50A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
4. CABINET UNIT HEATER, 2.0 KW, 208V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM INTEGRAL DISC. TO A 15A-1P BREAKER. MAKE ALL FINAL CONNECTIONS.
5. MOTORIZED LOUVER, FRAC. HP, 120V. WIRE THROUGH TIME CLOCK
6. EF-11, FRAC. HP. 120V 1Ø. WIRE THROUGH TIMECLOCK (BY E.C.) MAKE ALL FINAL CONNECTIONS.
7. WASHER, 120V 1Ø.
8. DRYER, 208V, 30 AMP. RUN (2) #10 CU & (1) #10 CU GRD IN 3/4" C. TO A 30A-2P BREAKER. PROVIDE DRYER RECEPTACLE. VERIFY EXACT NEMA CONFIGURATION AND WIRING FOR UNIT PROVIDED.
9. GAS FIRED TANKLESS WATER HEATER, 120V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. TO A 20A-1P BREAKER. PROVIDE TOGGLE SWITCH. MAKE ALL FINAL CONNECTIONS.
10. 30A L14-30R RECEPTACLE FOR OWNER FURNISHED UPS. RUN (2) #10 CU & (1) #10 CU GRD IN 3/4" C. TO A 30A-2P BREAKER.
11. EXHAUST FAN, 1/4 HP, 208V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM INTEGRAL DISC. SW. TO A 15A-2P BREAKER. MAKE ALL FINAL CONNECTIONS. FAN RUNS CONTINUOUS.

ALL RECEPTACLES IN ROOMS 124, 125, 126, 127, 128, 129, 136 IN ADDITION TO OTHERS AS NOTED REQUIRE GFI.



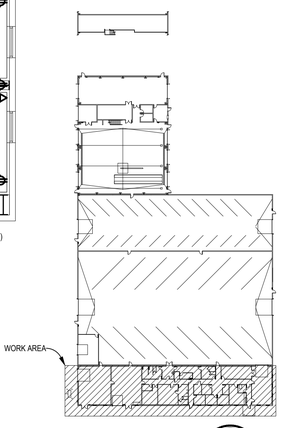
ELECTRICAL RISER DIAGRAM

N.T.S.



POWER PLAN 'A'

SCALE:1/8" = 1'-0"



KEY PLAN

N.T.S.

ALL WORK ON THIS SHEET BY 16A UNLESS OTHERWISE NOTED.

© COPYRIGHT 2025, POINT ONE DESIGN, LTD. #C25251

COPYRIGHT © 2025

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

POINT ONE Design, LTD. Consulting Engineers
Columbus, OH | Cleveland, OH
P: 614-540-3500 | P: 440-230-1800
pointonedesign.com

WDC GROUP

REVISIONS:
1 ADDENDUM 3 06/03/2026
2 ADDENDUM 7 06/29/2026

STATE OF OHIO
VIRGIL W. ELLETT
E-86261
PROFESSIONAL ENGINEER

vandalia ohio small city. big opportunity.

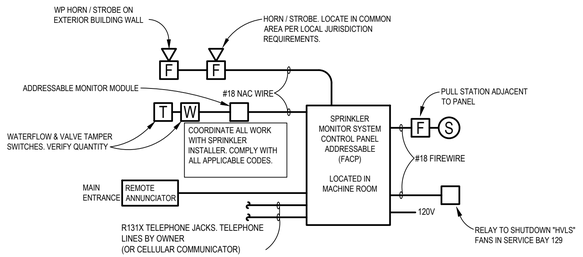
A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

POWER PLAN 'A'

PROJECT NO.: 23014
DRAWN BY: TSP
DATE: 05-18-2026
CHECKED BY: VWE

E2.1

100 OF 112



SPRINKLER MONIITOR SYSTEM SCHEMATIC DIAGRAM

N.T.S.

ALARM SYSTEM

1. OPERATION
   A. ACTIVATION OF ANY COMMON AREA, SMOKE DETECTOR SHALL SOUND ALL HORNS, FLASH ALL STROBES, LIGHT ASSOCIATED ZONE LIGHT AND COMMON ALARM LIGHT AT THE FIRE ALARM CONTROL PANEL, AND NOTIFY THE FIRE DEPARTMENT PER LOCAL REQUIREMENTS.

   B. ANY ALARM CONDITION CAN BE SILENCED BY ACCESSING THE CONTROL PANEL OR ANNUNCIATOR WITH THE APPROPRIATE KEY AND PRESSING THE ALARM SILENCE BUTTON. ALL ASSOCIATED ALARM CONDITIONS LATCH ON.

   C. UPON CORRECTING THE ACTIVATED DEVICE, THE CONTROL PANEL CAN BE RESET VIA THE RESET SWITCH.

   D. BATTERY BACKUP SHALL BE PROVIDED TO COMPLY WITH NFPA.

2. EQUIPMENT
   A. SYSTEM SHALL BE INSTALLED TO COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES.

   B. CONTROL PANEL TO PROVIDE FOR FULLY ANNUNCIATED, FIELD PROGRAMMABLE WITH WALK TEST, ALARM VERIFICATION AND BATTERY BACKUP. PANEL TO BE SURFACE MOUNTED, ADDRESSABLE.

   C. AUDIO/VISUAL (STROBE/HORN) SIGNALS AND SHALL BE MOUNTED AT 80" A.F.F. OR 6" DOWN FROM CEILING (WHICHEVER IS LOWER) ON A DEEP 4" SQUARE BOX.

3. WIRING
   A. WIRING SHALL BE AS RECOMMENDED BY THE MANUFACTURER TO COMPLY WITH ALL STATE AND LOCAL CODES, NFPA, NEC, ETC.

4. PERMIT
   A. THE CONTRACTOR SHALL PROVIDE WIRING DRAWINGS, PRODUCT DATA, BATTERY CALCULATIONS, AND ALL SUBMITTALS REQUIRED TO RECEIVE A FIRE ALARM PERMIT.

NATURAL GAS STANDBY GENERATOR SET SPECIFICATIONS

PROPANE FUELED STANDBY GENERATOR SET RATED 120/208, THREE PHASE, FOUR WIRE, 1800 RPM, 150 KW, KOHLER MODEL KG150 OR INDUSTRY EQUIVALENT. FUEL PRESSURE AT THE INLET MUST BE MAINTAINED AT 7 INCHES OF H2O. THE GENERATOR SETS ALTERNATOR WILL BE A 130°C TEMP RISE, INSULATION CLASS H. PROVIDE THE FOLLOWING ACCESSORIES: A STEEL WEATHER ENCLOSURE A 6 AMP BATTERY CHARGER, SEALED LEAD ACID BATTERIES WITH RACK AND CABLES, A BLOCK HEATER (120V SINGLE PHASE), AND A CONTROLLER WITH TIMERS, SENSORS, AND INDICATORS. ADDITIONALLY, THE GENERATOR SHALL BE EQUIPPED WITH A REMOTE ANNUNCIATOR AND A REMOTE EMERGENCY STOP SWITCH. THE GENERATOR SHALL BE EQUIPPED WITH AN 100% RATED 600 AMP THERMAL MAGNETIC TRIP TYPE BREAKER. THE GENERATOR CONTROL LOGIC SHALL HAVE THE CAPABILITY TO MONITOR THE AC OUTPUT VOLTAGE AND CURRENT FOR EACH PHASE.

ENSURE THAT THE GENERATOR SET MEETS THE FOLLOWING CODES AND STANDARDS

- NFPA 37
- NFPA 70
- NFPA 99
- NFPA 110
- UL2200
- COMPLY WITH EPA REQUIREMENTS AND APPLICABLE STATE AND LOCAL GOVERNMENT REQUIREMENTS
- START CIRCUIT MONITORING

INCLUDE TWO-YEAR PARTS AND LABOR WARRANTY; COVERAGE INCLUDES NOT LESS THAN TWO YEARS

PERFORM TESTS AND INSPECTIONS WITH THE ASSISTANCE OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE.

INCLUDE A 12-MONTH BIANNUAL PREVENTATIVE MAINTENANCE AGREEMENT FOR THE GENERATOR SET

AUTOMATIC SWITCH SPECIFICATIONS

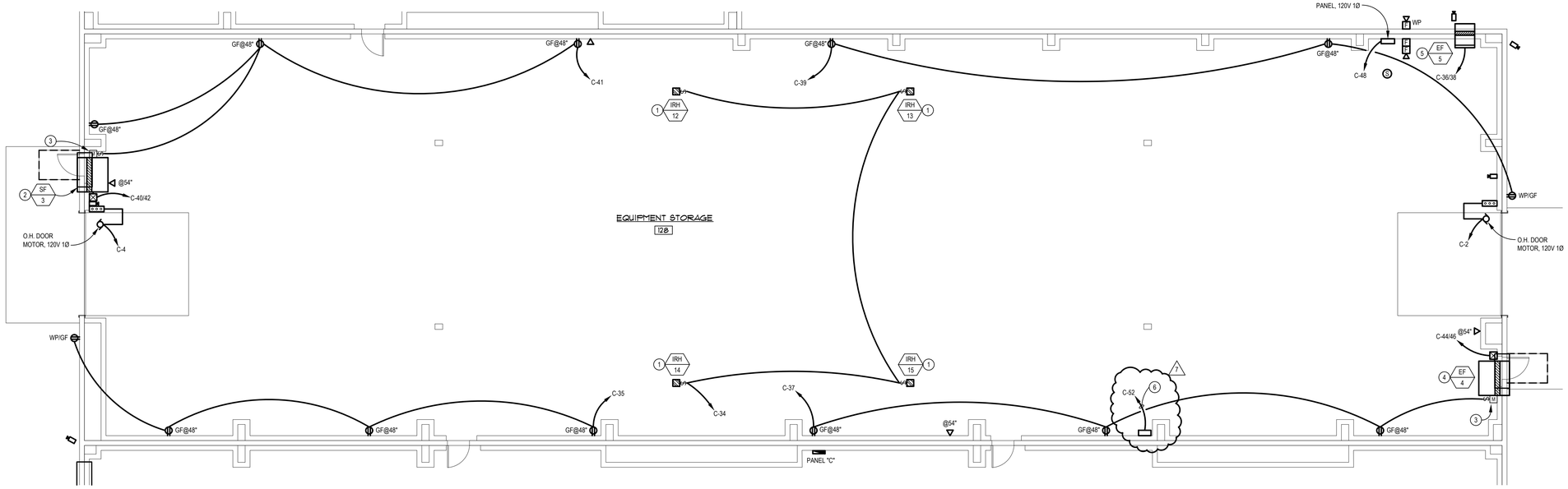
ATS - OPEN TRANSITION SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH RATED FOR ANY BREAKER (SPECIFIC OR SERIES-RATED TRANSFER SWITCHES ARE NOT ACCEPTABLE). THE ATS SHALL BE RATED FOR 600 AMP, 3 POLE/3 WIRE SOLID NEUTRAL AT 60 HERTZ MOUNTED IN A NEMA 3R UNIT TO BE KOHLER MODEL KCS SERIES OPEN TRANSITION AUTOMATIC TRANSFER SWITCH OR INDUSTRY STANDARD.

Basis of design contact:
Buckeye Power Sales
220-246-8657
Brycen Burkhalter
bburkhalter@bpsco.com

ELECTRICAL CODED NOTES

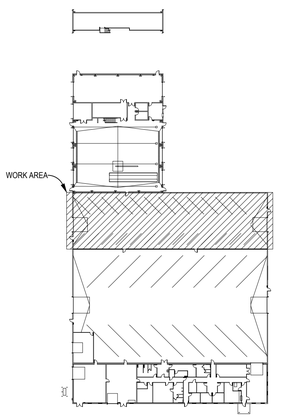
1. GAS INFRARED HEATER, 1.3A 120V 1Ø. PROVIDE TOGGLE SWITCH. CIRCUIT AS SHOWN.
2. SF-3, 3.0 HP. 208V 1Ø. RUN (2) #10 CU & (1) #10 CU GRD IN 3/4" C. FROM A STARTER W/ (1) M.O. & (1) M.C CONTACT (BY E.C.) TO A 25A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
3. MOTORIZED DAMPER, FRAC. HP, 120V 1Ø. PROVIDE TOGGLE SWITCH W/ ALL CONTACT. CIRCUIT AS SHOWN.
4. EF-4, 3.0 HP,. 208V 1Ø. RUN (2) #10 CU & (1) #10 CU GRD IN 3/4" C. FROM A STARTER W/ (1) M.O. & (1) M.C CONTACT (BY E.C.) TO A 25A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
5. EF-5, 1/4 HP, 208V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM INTEGRAL DISC. SW. TO A 15A-2P BREAKER. FAN RUNS CONTINUOUS.
6. GAS DETECTOR CONTROL PANEL, 120V 1Ø, 0.25 AMPS. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. TO A 20A-1P BREAKER. (7)

ALL RECEPTACLES IN ROOMS 124, 125, 126, 127, 128, 129, 136 IN ADDITION TO OTHERS AS NOTED REQUIRE GFI.



POWER PLAN 'C'

SCALE:1/8" = 1'-0"



KEY PLAN

N.T.S.

COPYRIGHT © 2025
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

© COPYRIGHT 2025, POINT ONE DESIGN LTD. #C25251

ALL WORK ON THIS SHEET BY 16A UNLESS OTHERWISE NOTED.

POINT ONE Design LTD.
Consulting Engineers
Columbus, OH | Cleveland, OH
P: 614-540-3500 | P: 440-230-1800
pointonedesign.com

WDC GROUP

REVISIONS:
1 ADDENDUM 3 06/03/2026
2 ADDENDUM 7 06/29/2026

STATE OF OHIO
VIRGIL W. ELLETT
E-86261
REGISTERED PROFESSIONAL ENGINEER

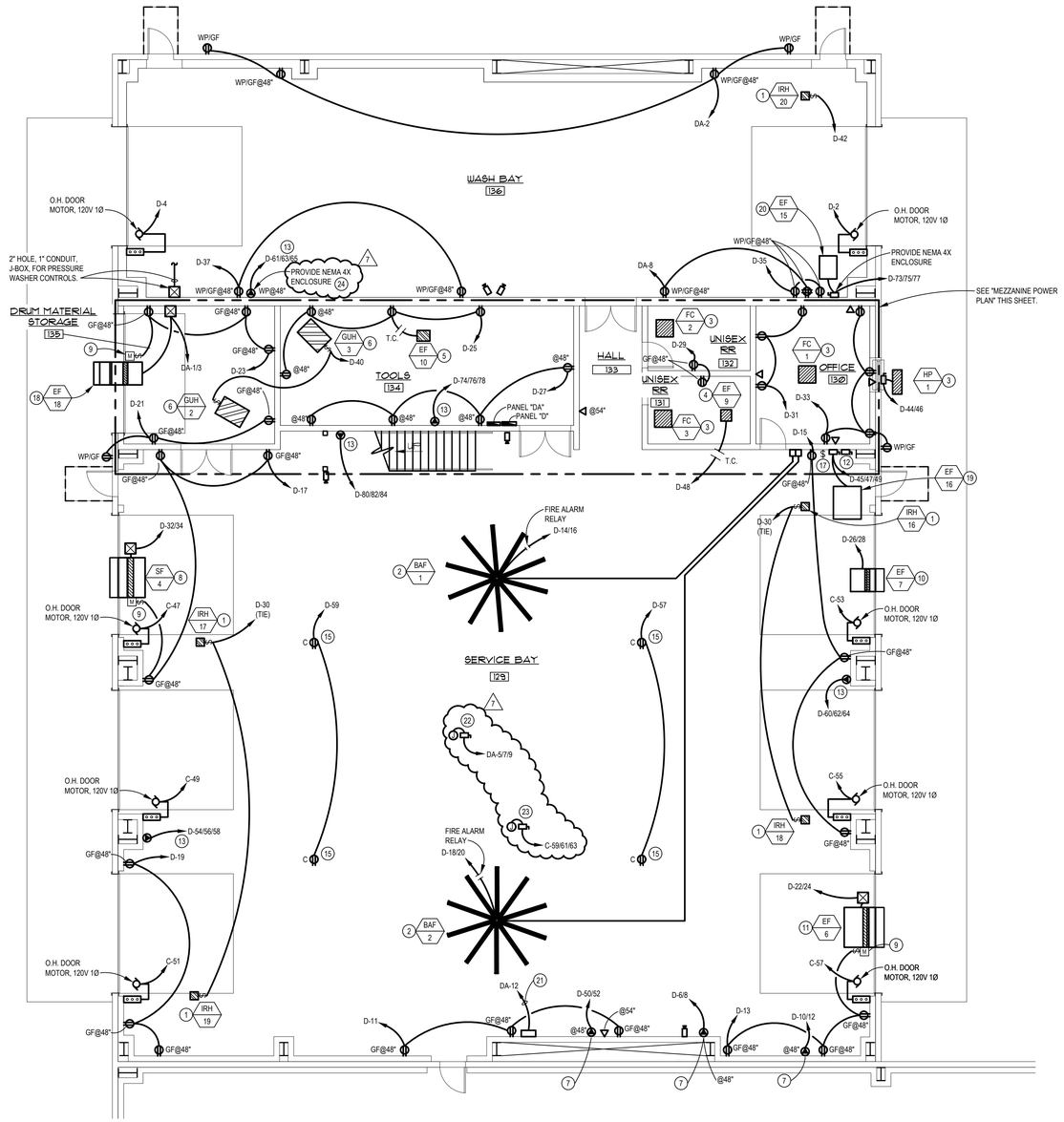
vandalia ohio
small city. big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45377
POWER PLAN 'C'

PROJECT NO.: 23014
DRAWN BY: TSP
DATE: 05-18-2026
CHECKED BY: VWE

E2.3
102 OF 112

ALL ENCLOSURES, CONNECTIONS, RACEWAYS, ETC. IN WASH BAY TO BE WATERPROOF. PROVIDE LISTED COMPONENTS AS APPLICABLE.



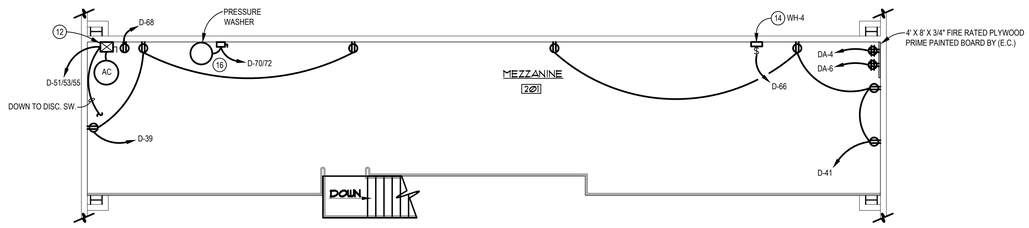
POWER PLAN 'D'

SCALE:1/8" = 1'-0"

ELECTRICAL CODED NOTES

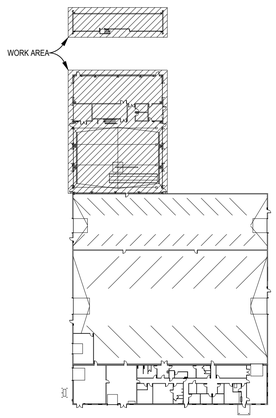
1. GAS INFRARED HEATER, 1.3A, 120V 1Ø. PROVIDE TOGGLE SWITCH. CIRCUIT AS SHOWN.
2. HVLS FAN, 208 1Ø, 10.0 AMPS. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM UNIT FURNISHED DISC. SW. THROUGH UNIT FURNISHED, VARIABLE SPEED, WALL CONTROLLER TO A 15A-2P BREAKER. MAKE ALL FINAL CONNECTIONS. WIRE THROUGH FIRE ALARM RELAY SO FAN SHUTS DOWN UPON SPRINKLER MONITOR SYSTEM ACTIVATION.
3. HP-1, 208V 1Ø. RUN (2) #10 CU & (1) # 10 CU GRD IN 3/4" C FROM A 30A-2P WP. DISC. SW. AT UNIT TO A 20A-2P BREAKER. RUN (2) #12 CU & (1) #12 CU GRD TO (3) INDOOR FAN COIL UNITS. MAKE ALL FINAL CONNECTIONS.
4. EF-9, 348W, 120V 1Ø. INTEGRAL DISC. WIRE THROUGH TIME CLOCK (BY E.C.). MAKE ALL FINAL CONNECTIONS.
5. EF-10, 143W, 120V 1Ø. INTEGRAL DISC. WIRE THROUGH TIME CLOCK (BY E.C.). MAKE ALL FINAL CONNECTIONS.
6. GAS UNIT HEATER, 3.7 F.L.A., 120V 1Ø. PROVIDE TOGGLE SWITCH. CIRCUIT AS SHOWN.
7. TIRE CHANGER, NEMA L6-20R RECEPTACLE. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. TO A 20A-2P BREAKER.
8. SF-4, 1-1/2 HP. 208V 1Ø. RUN (2) #10 CU & (1) #10 CU GRD FROM A STARTER W/ (1) M.O. & (1) M.C CONTACT (BY E.C.) TO A 15A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
9. MOTORIZED DAMPER, FRAC. HP, 120V 1Ø. PROVIDE TOGGLE SWITCH W/ AUX CONTACT. CIRCUIT AS SHOWN.
10. EF-7, 1/4 HP, 208V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM INTEGRAL DISC. SW. TO A 15A-2P BREAKER. MAKE ALL FINAL CONNECTIONS. (FAN RUNS CONTINUOUS)
11. EF-6, 1-1/2 HP, 208V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM STARTER W/ (1) M.O. & (1) M.C. CONTACTOR (BY E.C.) TO A 20A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
12. AIR COMPRESSOR, 208V 3Ø. RUN (3) #8 CU & (1) #10 CU GRD IN 3/4" C. FROM A FUSED 60A-3P STARTER / DISC. SW. (BY E.C.) TO A 40A-3P BREAKER. PROVIDE REMOTE DISC. SW. ON WALL OF SERVICE BAY BELOW AS SHOWN. MAKE ALL FINAL CONNECTIONS.
13. 208V 3Ø, 60 AMP RECEPTACLE FOR WELDER, VERIFY NEMA CONFIGURATION WITH OWNER. RUN (3) #4 CU & (1) # 10 CU GRD IN 1" C. TO A 60A-3P BREAKER. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
14. GAS FIRED TANKLESS WATER HEATER, 120V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. TO A 20A-1P BREAKER. PROVIDE TOGGLE SWITCH. MAKE ALL FINAL CONNECTIONS.
15. CEILING MOUNTED RETRACTING CORD REEL WITH DUPLEX RECEPTACLE. (WOODHEAD 92433-3080 OR EQUAL CONNECT TO 20A-1P GFCI BREAKER. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
16. PRESSURE WASHER, 44.0 F.L.A., 10 HP, 208V 1Ø. RUN (2) #6 CU & (1) #10 CU GRD IN 3/4" C. FROM A 60A-2P DISC. SW. AT UNIT (BY E.C.) TO A 60A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
17. E.C. TO PROVIDE SWITCH TO CONTROL COMPRESSED AIR SOLENOID. (SOLENOID BY P.C.) LOCATED NEAR COMPRESSOR ON MEZZANINE.
18. EF-18, 1/4 HP, 208V 1Ø. RUN (3) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM INTEGRAL DISC. SWITCH THROUGH STARTER W/ PILOT LIGHT & ON/OFF SWITCH (BY E.C.) TO A 15A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
19. EF-14, (TAILPIPE EXHAUST SYSTEM FAN) 15 HP, 208V 3Ø. RUN (3) #4 CU & (1) #10 CU GRD IN 1" C. FROM INTEGRAL VFD THROUGH A 60A-3P DISC. SW. TO A 60A-3P BREAKER. MAKE ALL FINAL CONNECTIONS.
20. EF-15, (TAILPIPE EXHAUST SYSTEM FAN) 5 HP, 208V 1Ø. RUN (3) #10 CU & (1) #10 CU GRD IN 3/4" C. FROM INTEGRAL VFD THROUGH A 30A-3P WP. DISC. SW. TO A 25A-3P BREAKER MAKE ALL FINAL CONNECTIONS.
21. GAS DETECTOR CONTROL PANEL, 120V 1Ø, 0.25 AMPS. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. TO A 20A-1P BREAKER.
22. HYDRAULIC LIFT, 208V 3Ø, 18 HP, 9 KW. RUN (3) #8 CU & (1) #10 CU GRD FROM 60A FUSED/LOCKABLE DISCONNECT (BY E.C.) TO A 50A-3P BREAKER. MAKE ALL FINAL CONNECTIONS. E.C. TO VERIFY LOCATION & MOUNTING FOR DISCONNECT & VERIFY AMPS FOR OVER CURRENT PROTECTION AS REQUIRED BY LIFT.
23. JIB CRANE LIFT, 208V 3Ø, 1/2 HP. RUN (3) #12 CU & (1) #12 CU GRD FROM 30A FUSED/LOCKABLE DISCONNECT (BY E.C.) TO A 15A-3P BREAKER. MAKE ALL FINAL CONNECTIONS. E.C. TO VERIFY LOCATION & MOUNTING FOR DISCONNECT & VERIFY AMPS FOR OVER CURRENT PROTECTION AS REQUIRED BY LIFT.
24. WASH BAY WELDING RECEPTACLE SHALL BE WEATHER PROOF / NEMA 4X. COORDINATE NEMA CONFIGURATION WITH OWNER FOR WELDING EQUIPMENT SUPPLIED.

ALL RECEPTACLES IN ROOMS 124, 125, 126, 127, 128, 129, 136 IN ADDITION TO OTHERS AS NOTED REQUIRE GFI.



MEZZANINE POWER PLAN

SCALE:1/8" = 1'-0"



KEY PLAN

N.T.S.

ALL WORK ON THIS SHEET BY 16A UNLESS OTHERWISE NOTED.

© COPYRIGHT 2025, POINT ONE DESIGN LTD. #C25251

COPYRIGHT © 2025

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

POINT ONE Design LTD. Consulting Engineers
Columbus, OH | Cleveland, OH
P: 614-540-3500 | P: 440-230-1800
pointonedesign.com

WDC GROUP

REVISIONS:

1	ADDENDUM 3	06/03/2025
2	ADDENDUM 7	06/25/2026

STATE OF OHIO
VIRGIL W. ELLETT
E-86261
REGISTERED PROFESSIONAL ENGINEER

vandalia ohio
small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45377

POWER PLAN 'D'

PROJECT NO.:	23014
DRAWN BY:	TSP
DATE:	05-18-2026
CHECKED BY:	VWE

E2.4

103 OF 112

ELECTRICAL LOAD SUMMARY (MDP)

DESCRIPTION	CONNECTED KW	POWER FACTOR	CONNECTED DEMAND	N.E.C. CONNECTED KVA	N.E.C. DEMAND FACTOR	N.E.C. FEEDER DEMAND KVA
LIGHTING	26.867	1.0	26.867	26.867	1.25	33.584
RECEPTACLES	83.990	1.0	83.990	83.990	1.0 < 10 KW 0.5x RMDR	46.995
MOTOR	92.492	1.0	92.492	92.492	1.0 + 125% OF LARGEST MOTOR	92.492
FIXED ELEC. SPACE HEATING *	17.804	1.0	17.804	17.804	1.00	17.804
AIR CONDITIONING SYSTEM *	18.000	1.0	18.000	18.000	1.00	18.000
ELECTRIC WATER HEATER	3.200	1.0	3.200	3.200	1.00	3.200
MISCELLANEOUS	3.500	1.0	3.500	3.500	1.00	3.500
TOTALS:	245.853		245.853	245.853		215.575

NOTES:
* USE GREATER OF THE CATEGORIES
LF - LINEAR FEET

N.E.C. DEMAND KVA x 1000 / SYSTEM VOLTAGE x 1.73 = MIN FEEDER AMPS

ELECTRICAL SERVICE VOLTAGE = **208 V - 3 PHASE**

215.575 KVA x 1000 / 208V x 1.73 = 598.376

MINIMUM 600 AMPS 208/120V 3 PHASE, 4 WIRE FEEDER

Panel ID: MDP | Voltage: 208 / 120 | Panel Type: I-LINE OR EQUAL
Location: SIGN SHOP | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 65,000
Main Type: MAIN LUGS | Bus Amperage: 600 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	3/0	PANEL "A"	200/3		17.978	17.978	A	0.000	0.000			BUSSED 3-POLE SPACE		2
3	3/0	----	--		12.372	12.372	B	0.000	0.000			----		4
5	3/0	----	--		12.020	12.020	C	0.000	0.000			----		6
7	3/0	PANEL "B"	200/3		12.647	12.647	A	0.000	0.000			BUSSED 3-POLE SPACE		8
9	3/0	----	--		13.288	13.288	B	0.000	0.000			----		10
11	3/0	----	--		11.295	11.295	C	0.000	0.000			----		12
13	3/0	PANEL "C"	200/3		17.240	17.240	A	0.000	0.000			BUSSED 3-POLE SPACE		14
15	3/0	----	--		18.793	18.793	B	0.000	0.000			----		16
17	3/0	----	--		13.488	13.488	C	0.000	0.000			----		18
19	500	PANEL "D"	350/3		44.741	44.741	A	0.000	0.000			BUSSED 3-POLE SPACE		20
21	500	----	--		45.591	45.591	B	0.000	0.000			----		22
23	500	----	--		37.177	37.177	C	0.000	0.000			----		24
25	3	PANEL "F"	100/3		0.000	0.000	A	0.000	0.000			BUSSED 3-POLE SPACE		26
27	3	----	--		0.000	0.000	B	0.000	0.000			----		28
29	3	----	--		0.000	0.000	C	0.000	0.000			----		30

Actual Load Panel Summary
Phase A: 92.6 KVA
Phase B: 90.0 KVA
Phase C: 74.0 KVA
Total: 256.6 KVA

N.E.C. Load Panel Summary
Phase A: 92.6 KVA — 771.7 AMPS
Phase B: 90.0 KVA — 750.4 AMPS
Phase C: 74.0 KVA — 616.5 AMPS
Total: 256.6 KVA — 712.3 AMPS

Breaker Options (If Used):
E - EXISTING BREAKER TO REMAIN

Panel ID: "A" | Voltage: 208 / 120 | Panel Type: NQOD OR EQUAL
Location: MECH / IT 121 | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 42,000
Main Type: MAIN LUGS | Bus Amperage: 225 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	12	LIGHTING	20/1		0.746	0.746	A	3.000	3.000		50/2	CU-1	6	2
3	12	RECEPTACLES	20/1		0.720	0.720	B	3.000	3.000		--	----	6	4
5	12	RECEPTACLES	20/1		0.720	0.720	C	3.000	3.000		50/2	CU-2	6	6
7	12	RECEPTACLES	20/1		0.900	0.900	A	3.000	3.000		--	----	6	8
9	12	RECEPTACLES	20/1		0.720	0.720	B	1.440	1.440		20/1	FUR-1	12	10
11	12	RECEPTACLES	20/1		0.720	0.720	C	1.440	1.440		20/1	FUR-2	12	12
13	12	RECEPTACLES	20/1		0.720	0.720	A	0.450	0.450		15/1	GUH-1	12	14
15	12	RECEPTACLES	20/1		0.720	0.720	B	0.350	0.350		20/1	EF-8	12	16
17	12	RECEPTACLES	20/1		0.900	0.900	C	0.360	0.360		20/1	IT RECEPT.	12	18
19	12	O.H. DOOR	20/1		1.500	1.500	A	0.540	0.540		20/1	RECEPTACLES	12	20
21	12	O.H. DOOR	20/1		1.500	1.500	B	0.000	0.000		20/1	SPARE	12	22
23	12	LIGHTING	20/1		0.580	0.580	C	0.540	0.540		20/1	RECEPTACLES	12	24
25	12	GUH-4	15/1		0.850	0.850	A	0.360	0.360		20/1	IT RECEPT.	12	26
27	12	GUH-5	15/1		0.850	0.850	B	0.360	0.360		30/2	UPS RECEPTACLE	10	28
29	12	O.H. DOOR	20/1		0.000	0.000	C	0.360	0.360		--	----	10	30
31	10	SITE POLE LIGHTS	20/2		1.900	1.900	A	1.500	1.500		20/1	GENERATOR HEATER	12	32
33	10	----	--		0.400	0.400	B	1.000	1.000		20/2	GENERATOR CHARGER	12	34
35	10	SITE GATE POWER	20/1		1.200	1.200	C	1.000	1.000		--	----	12	36
37	10	SITE GATE POWER	20/1		1.200	1.200	A	0.532	0.532		20/2	SITE POLE LIGHTS	10	38
39		SPARE	20/1		0.000	0.000	B	0.532	0.532		--	----	10	40
41	10	MONUMENT SIGN	20/1		1.200	1.200	C	0.000	0.000		15/2	EF-16 & EF-17	12	42
43	12	HUB POWER CIRCUIT	20/1		0.180	0.180	A	0.600	0.600		--	SPACE	12	44
45	12	HUB POWER CIRCUIT	20/1		0.180	0.180	B	0.600	0.600			SPACE		46
47		SPARE	20/1		0.000	0.000	C	0.000	0.000			SPACE		48
49		SPARE	20/1		0.000	0.000	A	0.000	0.000			SPACE		50
51		SPARE	20/1		0.000	0.000	B	0.000	0.000			SPACE		52
53		SPARE	20/1		0.000	0.000	C	0.000	0.000			SPACE		54
55		SPARE	20/1		0.000	0.000	A	0.000	0.000			SPACE		56
57		SPACE			0.000	0.000	B	0.000	0.000			SPACE		58
59		SPACE			0.000	0.000	C	0.000	0.000			SPACE		60

Actual Load Panel Summary
Phase A: 18.0 KVA
Phase B: 12.4 KVA
Phase C: 12.0 KVA
Total: 42.4 KVA

N.E.C. Load Panel Summary
Phase A: 18.0 KVA — 149.8 AMPS
Phase B: 12.4 KVA — 103.1 AMPS
Phase C: 12.0 KVA — 100.2 AMPS
Total: 42.4 KVA — 117.6 AMPS

Breaker Options (If Used):

Panel ID: "B" | Voltage: 208 / 120 | Panel Type: NF OR EQUAL
Location: MECH. 106 | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 22,000
Main Type: MAIN LUGS | Bus Amperage: 225 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	12	LIGHTING	20/1		0.989	0.989	A	3.000	3.000		50/2	CU-3	6	2
3	12	RECEPTACLES / EF	20/1		0.720	0.720	B	3.000	3.000		--	----	6	4
5	12	WASHER	20/1	GF	1.000	1.000	C	1.440	1.440		20/1	FUR-3	12	6
7	12	RECEPTACLES	20/1		0.540	0.540	A	0.918	0.918		20/1	EXTERIOR LIGHTING	12	8
9	12	RECEPTACLES	20/1		0.720	0.720	B	0.748	0.748		20/1	LIGHTING	12	10
11	12	RECEPTACLES / EF	20/1		0.540	0.540	C	0.000	0.000		20/1	SPARE	12	12
13	12	RECEPTACLES	20/1		0.540	0.540	A	1.000	1.000		15/1	CUH-1	12	14
15	12	RECEPTACLES	20/1		0.900	0.900	B	1.000	1.000		--	----	12	16
17	12	RECEPTACLES	20/1		0.900	0.900	C	1.000	1.000		15/1	CUH-2	12	18
19	12	RECEPTACLES	20/1		0.900	0.900	A	1.000	1.000		--	----	12	20
21	12	RECEPTACLES	20/1		0.900	0.900	B	2.500	2.500	GF	30/2	DRYER	10	22
23	12	RECEPTACLES	20/1		0.720	0.720	C	2.500	2.500		--	----	10	24
25	12	RECEPTACLES	20/1		0.900	0.900	A	0.800	0.800		20/1	WATER HEATER W-1	12	26
27	12	RECEPTACLES	20/1		0.900	0.900	B	0.800	0.800		20/1	WATER HEATER W-2	12	28
29	12	REFRIGERATOR	20/1	GF	0.500	0.500	C	0.000	0.000			SPACE		30
31	12	RECEPTACLES	20/1		0.180	0.180	A	0.000	0.000			SPACE		32
33	12	RECEPTACLES	20/1		0.180	0.180	B	0.000	0.000			SPACE		34
35	12	RECEPTACLES	20/1		0.900	0.900	C	0.000	0.000			SPACE		36
37	12	RECEPTACLES	20/1		1.080	1.080	A	0.000	0.000			SPACE		38
39	12	RECEPTACLES	20/1		0.720	0.720	B	0.000	0.000			SPACE		40
41	12	RECEPTACLES	20/1		0.720	0.720	C	0.000	0.000			SPACE		42
43	12	ICE MACHINE	20/1	GF	0.800	0.800	A	0.000	0.000			SPACE		44
45	12	NIGHT LIGHTS	20/1		0.200	0.200	B	0.000	0.000			SPACE		46
47	12	EXTERIOR LIGHTING	20/1		1.075	1.075	C	0.000	0.000			SPACE		48
49		SPARE	20/1		0.000	0.000	A	0.000	0.000			SPACE		50
51		SPARE	20/1		0.000	0.000	B	0.000	0.000			SPACE		52
53		SPARE	20/1		0.000	0.000	C	0.000	0.000			SPACE		54
55		SPARE	20/1		0.000	0.000	A	0.000	0.000			SPACE		56
57		SPARE	20/1		0.000	0.000	B	0.000	0.000			SPACE		58
59		SPARE	20/1		0.000	0.000	C	0.000	0.000			SPACE		60

Actual Load Panel Summary
Phase A: 12.6 KVA
Phase B: 13.3 KVA
Phase C: 11.3 KVA
Total: 37.2 KVA

N.E.C. Load Panel Summary
Phase A: 12.6 KVA — 105.4 AMPS
Phase B: 13.3 KVA — 110.7 AMPS
Phase C: 11.3 KVA — 94.1 AMPS
Total: 37.2 KVA — 103.3 AMPS

Breaker Options (If Used):
GF - GROUND FAULT BREAKER

COPYRIGHT © 2025

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

© COPYRIGHT 2025, POINT ONE DESIGN, LTD. #C25251

Panel ID: "C" | Voltage: 208 / 120 | Panel Type: NQOD OR EQUAL
Location: VEHICLE STORAGE | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 22,000
Main Type: MAIN LUGS | Bus Amperage: 225 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	12	LIGHTING	20/1		0.532	0.532	A	1.500	1.500		20/1	O.H. DOOR	12	2
3	12	LIGHTING	20/1		1.197	1.197	B	1.500	1.500		20/1	O.H. DOOR	12	4
5	12	LIGHTING	20/1		1.197	1.197	C	0.650	0.650		20/1	IRH-1,4,7,10	12	6
7	12	LIGHTING	20/1		1.197	1.197	A	0.650	0.650		20/1	IRH-2,3,5,6	12	8
9	12	LIGHTING	20/1		0.665	0.665	B	0.650	0.650		20/1	IRH-8,9,11	12	10
11	12	LIGHTING	20/1		1.197	1.197	C	0.200	0.200		20/1	GAS DET. C.P.	12	12
13	12	LIGHTING	20/1		1.197	1.197	A	1.100	1.100		25/2	SF-2	10	14
15	12	LIGHTING	20/1		1.197	1.197	B	1.100	1.100		--	----	10	16
17	12	RECEPTACLES	20/1		0.540	0.540	C	1.100	1.100		25/2	SF-1	10	18
19	12	RECEPTACLES	20/1		0.540	0.540	A	1.100	1.100		--	----	10	20
21	12	RECEPTACLES	20/1		0.540	0.540	B	1.100	1.100		25/2	EF-1	10	22
23	12	RECEPTACLES	20/1		0.540	0.540	C	1.100	1.100		--	----	10	24
25	12	RECEPTACLES	20/1		0.540	0.540	A	1.100	1.100		25/2	EF-2	10	26
27	12	RECEPTACLES	20/1		0.720	0.720	B	1.100	1.100		--	----	10	28
29	12	RECEPTACLES	20/1		0.360	0.360	C	0.200	0.200		15/2	EF-3	12	30
31	12	O.H. DOOR	20/1		1.500	1.500	A	0.200	0.200		--	----	12	32
33	12	O.H. DOOR	20/1		1.500	1.500	B	0.650	0.650		20/1	IRH-12,13,14,15	12	34
35	12	RECEPTACLES	20/1		0.720	0.720	C	0.200	0.200		15/2	EF-5	12	36
37	12	RECEPTACLES	20/1		0.540	0.540	A	0.200	0.200		--	----	12	38
39	12	RECEPTACLES	20/1		0.540	0.540	B	1.100	1.100		20/2	SF-3	10	40
41	12	RECEPTACLES	20/1		0.720	0.720	C	1.100	1.100		--	----	10	42
43	12	MEZZ. RECEPTS.	20/1		0.180	0.180	A	1.100	1.100		25/2	EF-4	10	44
45	12	NIGHT LIGHTS	20/1		0.670	0.670	B	1.100	1.100		--	----	10	46
47	12	O.H. DOOR	20/1		1.500	1.500	C	0.400	0.400		20/1	SPRINKLER MONITOR PNL	12	48
49	12	O.H. DOOR	20/1		1.500	1.500	A	0.200	0.200		20/1	WATER HEATER W-3	12	50
51	12	O.H. DOOR	20/1		1.500	1.500	B	0.200	0.200		20/1	GAS DET. C.P.	12	52
53	12	O.H. DOOR	20/1		1.500	1.500	C	0.000	0.000			SPACE		54
55	12	O.H. DOOR	20/1		1.500	1.500	A	0.000	0.000			SPACE		56
57	12	O.H. DOOR	20/1		1.500	1.500	B	0.000	0.000			SPACE		58
59	12	JIB LIFT CRANE	15/3		0.264	0.264	C	0.000	0.000			SPACE		60
61	12	----	--		0.264	0.264	A	0.000	0.000			SPACE		62
63	12	----	--		0.264	0.264	B	0.000	0.000			SPACE		64
65		SPARE	20/1		0.000	0.000	C	0.000	0.000			SPACE		66
67		SPARE	20/1		0.000	0.000	A	0.000	0.000			SPACE		68
69		SPARE	20/1		0.000	0.000	B	0.000	0.000			SPACE		70
71		SPACE			0.000	0.000	C	0.000	0.000			SPACE		72
73		SPACE			0.000	0.000	A	0.000	0.000			SPACE		74
75		SPACE			0.000	0.000	B	0.000	0.000			SPACE		76
77		SPACE			0.000	0.000	C	0.000	0.000			SPACE		78
79		SPACE			0.000	0.000	A	0.000	0.000			SPACE		80
81		SPACE			0.000	0.000	B	0.000	0.000			SPACE		82
83		SPACE			0.000	0.000	C	0.000	0.000			SPACE		84

Actual Load Panel Summary
Phase A: 17.2 KVA
Phase B: 18.8 KVA
Phase C: 13.5 KVA
Total: 49.5 KVA

N.E.C. Load Panel Summary
Phase A: 17.2 KVA — 143.7 AMPS
Phase B: 18.8 KVA — 156.6 AMPS
Phase C: 13.5 KVA — 112.4 AMPS
Total: 49.5 KVA — 137.5 AMPS

Breaker Options (If Used):

Panel ID: "D" | Voltage: 208 / 120 | Panel Type: NQOD OR EQUAL
Location: TOOLS 134 | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 22,000
Main Type: MAIN LUGS | Bus Amperage: 400 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	12	LIGHTING	20/1		0.931	0.931	A	1.500	1.500		20/1	O.H. DOOR	12	2
3	12	LIGHTING	20/1		1.064	1.064	B	1.500	1.500		20/1	O.H. DOOR	12	4
5	12	LIGHTING	20/1		0.578	0.578	C	0.360	0.360		20/2	RECEPTACLE	12	6
7	12	LIGHTING	20/1		0.233	0.233	A	0.360	0.360		--	----	12	8
9	12	LIGHTING	20/1		0.419	0.419	B	0.360	0.360		20/2	RECEPTACLE	12	10
11	12	RECEPTACLES	20/1		0.540	0.540	C	0.360	0.360		--	----	12	12
13	12	RECEPTACLES	20/1		0.540	0.540	A	1.040	1.040		15/2	HVLS-1	12	14
15	12	RECEPTACLES	20/1		0.540	0.540	B	1.040	1.040		--	----	12	16
17	12	RECEPTACLES	20/1		0.540	0.540	C	1.040	1.040		15/2	HVLS-2	12	18
19	12	RECEPTACLES	20/1		0.540	0.540	A	1.040	1.040		--	----	12	20
21	12	RECEPTACLES	20/1		0.540	0.540	B	1.150	1.150		20/2	EF-6	12	22
23	12	RECEPTACLES	20/1		0.540	0.540	C	1.150	1.150		--	----	12	24
25	12	RECEPTACLES	20/1		0.720	0.720	A	0.400	0.400		15/2	EF-7	12	26
27	12	RECEPTACLES	20/1		0.720	0.720	B	0.400	0.400		--	----	12	28
29	12	RECEPTACLES	20/1		0.360	0.360	C	0.624	0.624		20/1	IRH 16,17,18,19	12	30
31	12	RECEPTACLES	20/1		0.540	0.540	A	1.150	1.150		15/2	SF-4	12	32
33	12	RECEPTACLES	20/1		0.720	0.720	B	1.150	1.150		--	----	12	34
35	12	RECEPTACLES	20/1		0.360	0.360	C	0.000	0.000			SPACE	12	36
37	12	RECEPTACLES	20/1		0.360	0.360	A	0.000	0.000			SPACE	12	38
39	12	RECEPTACLES	20/1		0.540	0.540	B	0.900	0.900		20/1	GUH-2,3	12	40
41	12	RECEPTACLES	20/1		0.720	0.720	C	0.200	0.200		20/1	IRH-20	12	42
43	12	NIGHT LIGHTS	20/1		0.650	0.650	A	1.505	1.505		20/2	HP-1	12	44
45	4	EF-14	60/3		5.520	5.520	B	1.505	1.505		--	----	12	46
47	4	----	--		5.520	5.520	C	0.350	0.350		15/1	EF-9	12	48
49	4	----	--		5.520	5.520	A	0.360	0.360		20/2	RECEPTACLE	12	50
51	8	AIR COMPRESSOR	40/3		3.000	3.000	B	0.360	0.360		--	----	12	52
53	8	----	--		3.000	3.000	C	1.500	1.500		60/3	WELDING RECEPT.	4	54
55	8	----	--		3.000	3.000	A	1.500	1.500		--	----	4	56
57	12	CORD REEL RECEPTS.	20/1		0.360	0.360	B	1.500	1.500		--	----	4	58
59	12	CORD REEL RECEPTS.	20/1		0.360	0.360	C	1.500	1.500		60/3	WELDING RECEPT.	4	60
61	4	WELDING RECEPTS	60/3		1.500	1.500	A	1.500	1.500		--	----	4	62
63	4	----	--		1.500	1.500	B	1.500	1.500		--	----	4	64
65	4	----	--		1.500	1.500	C	0.800	0.800		20/1	WATER HEATER WH-4	12	66
67	3	PANEL "DA"	100/3		4.560	4.560	A	0.180	0.180		20/1	RECEPTACLE	12	68
69	3	----	--		3.660	3.660	B	4.575	4.575		60/2	PRESSURE WASHER	6	70
71	3	----	--		3.360	3.360	C	4.575	4.575		--	----	6	72
73	10	EF-15	25/3		2.000	2.000	A	1.500	1.500		60/3	WELDING RECEPT.	4	74
75	10	----	--		2.000	2.000	B	1.500	1.500		--	----	4	76
77	10	----	--		2.000	2.000	C	1.500	1.500		--	----	4	78
79	4	PANEL "D1"	60/3		10.112	10.112	A	1.500	1.500		60/3	WELDING RECEPT.	4	80
81	4	----	--		6.068	6.068	B	1.500	1.500		--	----	4	82
83	4	----	--		2.340	2.340	C	1.500	1.500		--	----	4	84

Actual Load Panel Summary
Phase A: 44.7 KVA
Phase B: 45.6 KVA
Phase C: 37.2 KVA
Total: 127.5 KVA

N.E.C. Load Panel Summary
Phase A: 44.7 KVA — 372.8 AMPS
Phase B: 45.6 KVA — 379.9 AMPS
Phase C: 37.2 KVA — 309.8 AMPS
Total: 127.5 KVA — 353.9 AMPS

Breaker Options (If Used):

Panel ID: "F" FUEL ISLAND | Voltage: 208 / 120 | Panel Type: NQOD EQUAL
Location: SIGN SHOP | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 22,000
Main Type: MAIN LUGS | Bus Amperage: 100 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1		SPACE			0.000	0.000	A	0.000	0.000			SPACE		2
3		SPACE			0.000	0.000	B	0.000	0.000			SPACE		4
5		SPACE			0.000	0.000	C	0.000	0.000			SPACE		6
7		SPACE			0.000	0.000	A	0.000	0.000			SPACE		8
9		SPACE			0.000	0.000	B	0.000	0.000			SPACE		10
11		SPACE			0.000	0.000	C	0.000	0.000			SPACE		12
13		SPACE			0.000	0.000	A	0.000	0.000			SPACE		14
15		SPACE			0.000	0.000	B	0.000	0.000			SPACE		16
17		SPACE			0.000	0.000	C	0.000	0.000			SPACE		18
19		SPACE			0.000	0.000	A	0.000	0.000			SPACE		20
21		SPACE			0.000	0.000	B	0.000	0.000			SPACE		22
23		SPACE			0.000	0.000	C	0.000	0.000			SPACE		24
25		SPACE			0.000	0.000	A	0.000	0.000			SPACE		26
27		SPACE			0.000	0.000	B	0.000	0.000			SPACE		28
29		SPACE			0.000	0.000	C	0.000	0.000			SPACE		30

Actual Load Panel Summary
Phase A: 0.0 KVA
Phase B: 0.0 KVA
Phase C: 0.0 KVA
Total: 0.0 KVA

N.E.C. Load Panel Summary
Phase A: 0.0 KVA — 0.0 AMPS
Phase B: 0.0 KVA — 0.0 AMPS
Phase C: 0.0 KVA — 0.0 AMPS
Total: 0.0 KVA — 0.0 AMPS

Breaker Options (If Used):

Panel ID: "D1" | Voltage: 208 /

SECTION 16000 – ELECTRICAL

PART 1 – GENERAL CONDITIONS

A. WORKMANSHIP AND MATERIALS: ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER SO AS TO INSURE A HIGH QUALITY JOB AND TO PRESENT A NEAT AND PROFESSIONAL APPEARANCE WHEN COMPLETED. ALL MATERIALS USED SHALL BE NEW AND UL APPROVED FOR THEIR INTENDED USES WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED.

B. CODES, PERMITS AND INSPECTIONS: WORK INCLUDED IN THIS SECTION SHALL COMPLY WITH ALL APPLICABLE LAWS OF THE STATE AND COMMUNITY AND WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE
WHERE IT IS NOT IN CONFLICT WITH THOSE LAWS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK OUTLINED HEREIN AND ON THE DRAWINGS. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL SUBMIT A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM THE LOCAL ELECTRICAL INSPECTOR'S OFFICE (OR THE AUTHORITY HAVING JURISDICTION), CERTIFYING THAT THE INSTALLATION COMPLIES ALL APPLICATION REGULATIONS GOVERNING THE SAME. ONCE BIDS ARE TAKEN, CHANGES TO THE DRAWINGS AND/OR SPECIFICATIONS MADE NECESSARY BY CODE REQUIREMENTS SHALL BE PERFORMED AT NO ADDITIONAL COST.

C. DRAWINGS AND SPECIFICATIONS: THE CONTRACT DRAWINGS AND THESE SPECIFICATIONS SHALL BE CONSIDERED AS COMPLIMENTARY EACH TO THE OTHER. WHAT IS CALLED FOR BY ONE SHALL BE CONSIDERED BINDING AS IF CALLED FOR BY BOTH. WHERE CONFLICTS OCCUR, SECURE CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BIDS; OTHERWISE, PROVIDE FOR THE MORE COSTLY QUALITY OR QUANTITY. THE DRAWINGS ARE DIAGRAMMATICAL AND DIMENSION FIGURES SHOULD BE FOLLOWED IN PREFERENCE TO SCALING; VERIFY DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND WITH FIELD CONDITIONS.

D. SITE CONDITIONS: BEFORE SUBMITTING A BID THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND ASCERTAIN ALL EXISTING CONDITIONS. ADJUSTMENT TO THE WORK MADE NECESSARY BY ACTUAL FIELD CONDITIONS SHALL BE MADE AT NO ADDITIONAL COST. ROUTING OF UNDERGROUND FEEDERS AND CIRCUITS MAY BE ADJUSTED TO SUIT ACTUAL CONDITIONS ENCOUNTERED.

E. COORDINATION WITH OTHER TRADES: COORDINATE THE CONSTRUCTION SO AS TO CONFORM WITH THE PROGRESS OF THE WORK OF THE OTHER TRADES. PHASING OF THE WORK SHALL BE DONE AS SOON AS POSSIBLE WITH THE ENTIRE INSTALLATION COMPLETED AS SOON AS THE CONDITION OF THE BUILDING PERMITS.

F. PROPOSED SUBSTITUTIONS: MANUFACTURER'S NAMES AND CATALOG NUMBERS ARE USED IN THE CONTRACT DOCUMENTS TO GENERALLY ESTABLISH A DESIRED TYPE, STYLE AND/OR QUALITY LEVEL. THIS IS NOT TO BE CONSTRUED AS FAVORING ONE MANUFACTURER OVER ANOTHER; SUBSTITUTIONS OF EQUAL PRODUCTS WILL BE CONSIDERED ACCORDING TO THE FOLLOWING CONDITIONS. WHERE SUBSTITUTIONS ARE SUBMITTED IN DUPLICATE AT LEAST TEN (10) DAYS PRIOR TO BID DATE. SUBMITTALS SHALL BE MAILED OR HAND DELIVERED; TELEPHONE CALLS OR FACSIMILE TRANSMISSIONS ARE NOT ACCEPTABLE. ONE COPY OF THE SUBMITTAL WILL BE KEPT ON FILE AND THE SECOND COPY RETURNED BY MAIL INDICATING ACCEPTABILITY OF THE SUBSTITUTIONS.

G. WORK INCLUDED IN OTHER SECTIONS: PORTIONS OF WORK RELATED TO THIS SECTION TO BE DONE BY OTHERS INCLUDE: FINISHED PAINTING OF CONDUITS, EQUIPMENT, ETC. (EXCEPT WOOD BACKBOARDS), FURNISHING AND SETTING IN PLACE OF ALL MOTORS, FURNISHING AND INSTALLATION OF ALL CONTROL DEVICES AND CIRCUITS (EXCEPT FOR CONTROL DEVICES IN POWER CIRCUITS WHICH ARE TO BE INCLUDED AS A PART OF THIS SECTION).

H. EQUIPMENT IDENTIFICATION: NAMEPLATES SHALL BE PROVIDED FOR VARIOUS ITEMS OF EQUIPMENT AS LISTED HEREIN. THE NAMEPLATE SHALL BE FABRICATED FROM LAMINATED PHENOLIC TO PROVIDE ENGRAVED BLACK LETTERS ON A WHITE BACKGROUND WITH CHAMFERED EDGES. NAMEPLATES SHALL BE FASTENED TO THE EQUIPMENT WITH AT LEAST TWO METAL PINS OR SCREWS. LETTER SIZES SHALL BE AS FOLLOWS:

MINIMUM 1/4–INCH LETTERS: SWITCHBOARDS, PANELBOARDS
MINIMUM 1/8–INCH LETTERS: STARTERS, SAFETY SWITCHES, CONTROL DEVICES (TIME SWITCHES, CONTACTORS, ETC.)

I. CUTTING AND PATCHING: WHERE POSSIBLE ALL WORK SHALL BE BUILT IN AS THE JOB PROGRESSES. WHERE THIS IS NOT POSSIBLE, SECURE THE ARCHITECT'S APPROVAL FOR ANY CUTTING, CHASING, ETC., THAT IS REQUIRED. ALL CUT SURFACES SHALL BE REPAIRED BY SKILLED MECHANICS OF THE TRADE INVOLVED.

J. TRENCHING AND BACKFILLING: PERFORM ALL EXCAVATION NECESSARY FOR INSTALLATION OF THE WORK SHOWN; DO NOT BACKFILL UNTIL ALL WORK IS COMPLETED AND INSPECTED. BACKFILL WITHIN THE BUILDING AND UNDER PAVED AREAS SHALL MEET COMPACTION REQUIREMENTS ESTABLISHED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS; FILL MATERIAL SHALL BE PIT RUN GRAVEL OR SIMILAR GRANULAR MATERIAL. AVOID ALL EXISTING UTILITIES; ANY EXISTING UTILITIES DAMAGED SHALL BE REPAIRED AS DIRECTED BY THE ARCHITECT. RESTORE ANY DAMAGED PAVING TO MATCH EXISTING.

K. TESTING: UPON COMPLETION OF THE WORK, CONDUCT A THOROUGH TEST IN THE ARCHITECT'S PRESENCE TO SHOW THE ENTIRE SYSTEM TO BE IN PERFECT WORKING CONDITION.

PART 2 – RACEWAYS AND FITTINGS

A. RACEWAY TYPES: CONDUIT RACEWAYS SHALL BE GALVANIZED RIGID STEEL, GALVANIZED INTERMEDIATE GRADE, GALVANIZED ELECTRICAL METALLIC TUBING, RIGID ALUMINUM, GALVANIZED FLEXIBLE STEEL, LIQUID LIGHT FLEXIBLE STEEL OR PLASTIC AS REQUIRED BY CODE AND AS HEREIN SPECIFIED.

B. RACEWAY MANUFACTURERS:

B.1. RIGID STEEL CONDUIT, INTERMEDIATE GRADE CONDUIT: SHALL BE GALVANIZED WITH THREADED FITTINGS; PITTSBURG, REPUBLIC OR EQUAL.

B.2. ELECTRICAL METALLIC TUBING: SHALL BE GALVANIZED WITH COMPRESSION OR SET SCREW TYPE CONNECTORS; PITTSBURGH, REPUBLIC OR EQUAL.

B.3. RIGID ALUMINUM CONDUIT: SHALL BE HEAVY–WALL TYPE WITH THREADED FITTINGS.

B.4. FLEXIBLE STEEL: SHALL BE GALVANIZED WITH SET SCREW FITTINGS.

B.5. LIQUID–TIGHT FLEXIBLE STEEL: SHALL HAVE A GALVANIZED STEEL CORE COVERED BY A LIQUID–TIGHT PVC JACKET AND COMPRESSION TYPE LIQUID–TIGHT FITTINGS; ANACONDA.

B.6. FINAL CONNECTIONS TO LIGHT FIXTURES: FLEXIBLE STEEL CONDUIT (6'–0" MINIMUM).

B.7. FINAL CONNECTIONS TO TRANSFORMERS, MOTORS AND EQUIPMENT IN MECHANICAL ROOMS AND OUTDOORS: LIQUID–TIGHT FLEXIBLE STEEL CONDUIT.

F. INSTALLATION: CONDUIT IS TO BE INSTALLED CONCEALED EXCEPT IN EQUIPMENT ROOMS AND WHERE EXPOSED RUNS ARE SPECIFICALLY INDICATED. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL WITH OR AT RIGHT ANGLES TO WALLS, CEILINGS, STRUCTURAL MEMBERS, ETC. THE CONDUIT LAYOUT SHOWN ON THE DRAWINGS IS DIAGRAMMATIC ONLY AND MUST BE ADJUSTED FOR ACTUAL CONDITIONS. OFFSETS ARE NOT SHOWN AND MUST BE FURNISHED AS REQUIRED. KEEP CONDUIT RUNS AT LEAST 12 INCHES AWAY FROM PARALLEL RUNS OF FLUES, STEAM PIPES AND OTHER HEAT PRODUCING SOURCES. CONDUIT SIZES SHALL NOT BE SMALLER THAN SHOWN ON THE DRAWINGS AND SHALL COMPLY WITH THE NEC WHERE NO SIZE IS INDICATED; THE MINIMUM SIZE SHALL BE 1/2". ALL CONDUITS SHALL BE SECURELY SUPPORTED WITHIN 3 FEET OF EACH OUTLET BOX, JUNCTION BOX, CABINET, TERMINATION, FITTING, ETC., AND AT INTERVALS NOT EXCEEDING 8 FEET BETWEEN. CONDUIT SUPPORT SHALL BE AS REQUIRED BY NEC BASED ON THE CONDUIT SYSTEM TYPE. FASTENING METHODS SHALL EMPLOY LEAD EXPANSION ANCHORS OR POWDER–DRIVEN FASTENERS IN CONCRETE, TOGGLE BOLTS IN HOLLOW WALLS, LEAD EXPANSION ANCHORS IN MASONRY, WOOD, SHEET METAL SCREWS IN SHEET METAL AND CLAMPS ON BAR JOISTS AND EQUIPMENT FRAMES. CONDUIT SHALL NOT BE WELDED OR TIED WITH WIRES TO PROVIDE SUPPORT. WHERE RIGID STEEL CONDUIT IS INSTALLED UNDERGROUND, THE CONDUIT AND COUPLINGS SHALL BE PROVIDED WITH A FACTORY APPLIED PVC COATING OR SHALL BE PAINTED WITH 2 COATS OF ASPHALTUM PAINT. IF PLASTIC CONDUIT IS USED FOR BELOW GROUND RUNS THE TURN UP THROUGH THE FLOOR SHALL BE MADE WITH A RIGID STEEL ELBOW. PLASTIC CONDUIT USED FOR UNDERGROUND SERVICE ENTRANCE SHALL BE ENCASED IN 2 INCHES OF CONCRETE, MINIMUM. ALL RUNS OF PLASTIC CONDUIT SHALL BE PROVIDED WITH A PROPERLY SIZED GROUND WIRE. THE OVERALL DIAMETER OF ANY CONDUIT INSTALLED IN A SLAB SHALL NOT EXCEED 1/3 THE SLAB THICKNESS. RUN THE CONDUIT IN THE CENTER OF THE SLAB AND ROUTE TO AVOID DISPLACING THE REINFORCING STEEL. CONDUIT SUPPORT MAY BE OBTAINED BY TYING TO THE REINFORCING STEEL. CONDUIT ENDS SHALL BE CUT SQUARE, REAMED SMOOTH AND FULLY INSERTED INTO FITTINGS. BENDS SHALL BE MADE WITH A PROPER HICKEY OR BENDING MACHINE. MAKE NO BENDS LESS THAN 6 TIMES THE CONDUIT DIAMETER, NOR MORE THAN 90 DEGREES. CRUSHED OR DEFORMED CONDUIT SHALL NOT BE INSTALLED; WHERE DAMAGE OCCURS AFTER INSTALLATION THE DAMAGED CONDUIT SHALL BE REPLACED.
CAP CONDUIT ENDS WITH PLASTIC CAPS OR PLUGS DURING CONSTRUCTION TO KEEP OUT DEBRIS; TAPING IS NOT ACCEPTABLE. WHERE RACEWAY IS TERMINATED NOT IN AN ENCLOSURE, SUCH AS AT A BACKBOARD OR IN A FURRED SPACE, PROVIDE INSULATED THROAT BUSHINGS. FIELD INSERTABLE THROATS ARE NOT ACCEPTABLE. PROVIDE ALL EMPTY CONDUITS WITH NO. 14 GALVANIZED STEEL PULL WIRE WITH 12 INCHES FREE AT EACH END.

PART 3 – OUTLET BOXES

A. CONSTRUCTION: UNLESS NOTED OTHERWISE, BOXES SHALL BE GALVANIZED SHEET STEEL 1/16 INCH THICK MINIMUM, AT LEAST 1–1/2 INCHES DEEP. BOXES SHALL BE SIZED TO ACCOMMODATE THE DEVICES AND CONDUCTORS INDICATED IN ACCORDANCE WITH NEC. BOXES NOT CAST IN CONCRETE OR SET IN MASONRY SHALL BE FASTENED TO THE BUILDING STRUCTURE IN THE SAME MANNER AS SPECIFIED FOR THE CONDUIT SYSTEM.

B. BOX TYPES:

B.1. CEILING AND WALL BRACKET OUTLETS SHALL BE 4 INCH OCTAGONAL BOXES WITH PLASTER RINGS AS APPROPRIATE FOR THE FINISHED SURFACE.

B.2. SWITCH OUTLETS, RECEPTACLE OUTLETS AND AUXILIARY SYSTEM OUTLETS SHALL BE 4 INCH SQUARE BOXES WITH 3/4 INCH PLASTER RINGS WHERE USED IN PLASTER OR DRYWALL, 1 INCH PLASTER RINGS WHERE SET IN EXPOSED CONCRETE, 1 INCH TILE COVERS WHERE USED WITH CERAMIC TILE, AND OTHERWISE AS APPROPRIATE FOR CONSTRUCTION.

B.3. EXPOSED BOXES SHALL BE 4 INCH SQUARE UTILITY BOXES.

B.4. EXTERIOR BOXES AND BOXES IN WET LOCATIONS SHALL BE CAST ALUMINUM OR GALVANIZED CAST IRON WITH APPROPRIATE GASKETS AND FITTINGS.

PART 3 – OUTLET BOXES

B.5. SPECIAL PURPOSE OUTLETS SHALL HAVE BOX TYPES AS REQUIRED AND/OR AS INDICATED ON THE DRAWINGS.

C. BOX MANUFACTURERS: OUTLET BOXES SHALL BE AS MANUFACTURED BY APPLETON, RACO, STEEL CITY OR EQUAL.

D. INSTALLATION: OUTLET LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE UNLESS A DIMENSIONED LOCATION IS SPECIFIED. OBTAIN ARCHITECT'S APPROVAL BEFORE RELOCATING ANY OUTLET DUE TO CONFLICTS. WHERE OUTLETS AT DIFFERENT LEVELS OCCUR TOGETHER THEY SHALL BE INSTALLED IN ONE VERTICAL LINE WHERE POSSIBLE. WHERE OUTLETS OCCURRING AT THE SAME HEIGHT ARE SHOWN THEY SHALL BE MOUNTED 6 TO 10 INCHES APART UNLESS SPECIFICALLY SHOWN UNDER A COMMON COVER. OUTLET HEIGHTS IN MASONRY WALLS MAY BE SLIGHTLY ADJUSTED UP OR DOWN TO SUIT THE MASONRY COURSES PROVIDED THAT A UNIFORM HEIGHT IS MAINTAINED THROUGHOUT THE FACILITY. OTHER MOUNTING HEIGHTS SHALL BE AS NOTED IN THE SYMBOLS LEGEND AND ELSEWHERE IN THE DRAWINGS. WHERE OUTLETS OCCUR IN OR ABOVE CASEWORK, COUNTERS, CABINETS AND OTHER EQUIPMENT THEIR EXACT LOCATION AND MOUNTING HEIGHT SHALL BE VERIFIED WITH THE PARTICULAR ITEM PRIOR TO ROUGHING IN.

E. CORD REELS: CORD REELS SHALL BE WOODHEAD 92433–3080 OR EQUAL.

PART 4 – WIRING DEVICES

A. GENERAL: ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH FEATURES AS DESCRIBED HEREIN. SEE THE SYMBOLS LEGEND ON THE DRAWING FOR FURTHER DESCRIPTIONS OF VARIOUS DEVICES. ALL WIRING DEVICES SHALL BE IVORY IN COLOR AND ARE TO HAVE PLASTER EARS.

B. DEVICE PLATES:

B.1. FLUSH MOUNTED OUTLETS: DEVICE PLATES FOR ALL FLUSH MOUNTED OUTLETS SHALL BE ONE–PIECE SMOOTH IMPACT–RESISTANT PLASTICS. PLATES SHALL BE PROVIDED WITH THE APPROPRIATE NUMBER OF MATCHING COUNTERSUNK SCREWS AND SHALL BE INSTALLED WITH ALL FOUR EDGES IN CONTINUOUS CONTACT WITH THE FINISHED WALL.

B.2. SURFACE MOUNTED OUTLETS: DEVICE PLATES FOR ALL SURFACE MOUNTED OUTLETS SHALL BE ONE–PIECE, ZINC COATED SHEET STEEL, .040 INCHES THICK WITH ROUNDED EDGES AND FURNISHED WITH MATCHING COUNTERSUNK SCREWS.

B.3. EXTERIOR OUTLETS: DEVICE COVER PLATES FOR EXTERIOR MOUNTED OUTLETS (OR OUTLETS MOUNTED IN WET LOCATIONS) SHALL BE CAST ALUMINUM OR GALVANIZED CAST IRON TO MATCH BOX CONSTRUCTION AND SHALL BE INSTALLED WITH PROPER GASKETING. CAPS SHALL BE PERMANENTLY ATTACHED TO THE COVER BY MEANS OF A SPRING–LOADED HINGE.

B.4. COMMUNICATION OUTLETS: OUTLETS IN WHICH A CORD ONLY IS TO BE INSTALLED WITH NO DEVICE OR JACK, SHALL BE PROVIDED WITH A 3/8 INCH DIA. BUSHED HOLE IN THE CENTER OR AS NOTED ON THE DRAWINGS.

C. WALL SWITCHES:

C.1. CONSTRUCTION: WALL SWITCHES SHALL BE THE TOTALLY ENCLOSED TYPE WITH A NON–CONDUCTIVE PHENOLIC OR PLASTIC HANDLE AND DEEP SLOTTED SCREW TERMINALS. SWITCHES SHALL BE OF A TYPE SUCH THAT ONLY ONE SWITCH MAY BE INSTALLED IN A SINGLE GANG LOCATION. SWITCHES SHALL BE QUIET–TYPE, RATED FOR 15 AMPS, 120/277 VOLTS AC ONLY WITH THE THROW, CONTACT TYPE, AND NUMBER OF POLES AS INDICATED.

C.2. MANUFACTURER'S CATALOG NUMBERS

ARROW–HART: SINGLE POLE 1891, DOUBLE POLE 1892, THREE–WAY 1893, FOUR–WAY 1894
BRYANT: SINGLE POLE 4801, DOUBLE POLE 4802, THREE–WAY 4803, FOUR–WAY 4804
HUBBELL: SINGLE POLE 1201, DOUBLE POLE 1202, THREE–WAY 1203, FOUR–WAY 1204

D. MOTOR SWITCHES: MOTOR SWITCHES SHALL BE PROVIDED WITH PILOT LIGHT AND INTEGRAL THERMAL OVERLOAD PROTECTION. ENCLOSURES SHALL BE NEMA TYPE 1 OR TYPE 4 AS REQUIRED BY UNIT LOCATION. UNITS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED. MOTOR SWITCHES SHALL BE SQUARE D CLASS 2510 OR EQUAL WITH NUMBER OF POLES AS REQUIRED.

E. POWER RECEPTACLES:

E.1. CONSTRUCTION: POWER RECEPTACLES SHALL BE OF A STANDARD NEMA CONFIGURATION FOR THE VOLTAGE AND AMPERAGE CHARACTERISTICS OF ITS INTENDED USE. BODIES SHALL BE OF A NON–CONDUCTIVE PHENOLIC OR PLASTIC COMPOUND PERMANENTLY ATTACHED TO A METAL MOUNTING YOKE. INTERNAL CONTACT ARRANGEMENT SHALL BE SUCH THAT CONTACT IS MADE ON TWO OPPOSITE SIDES OF AN INSERTED BLADE. GROUND TERMINALS SHALL BE CONNECTED TO THE MOUNTING YOKE AND PROVIDED WITH A GREEN COLORED SCREW FOR CONNECTION OF THE CIRCUIT GROUNDING CONDUCTOR. GROUND FAULT CIRCUIT INTERRUPTER DEVICES SHALL CONFORM TO THE REQUIREMENTS OF UL 943. LOCKING OF RECEPTACLES INDICATED TO BE THE LOCKING TYPE SHALL BE ACCOMPLISHED BY ROTATION OF THE PLUG.

E.2. MANUFACTURER'S CATALOG NUMBERS

	ARROW–HART	BRYANT	HUBBELL
15A, 125V DEVICES – NEMA 5–15R			
SINGLE OUTLET	5261	5261	5261
DUPLEX OUTLET	5262	5262	5262
DUPLEX/GFC	GF8200	GFR52FT	GF–5262
20A, 125V DEVICES – NEMA 5–20R			
DUPLEX OUTLET	5362	5362	5362
50A, 125/250V DEVICES – NEMA 10–50R			
SINGLE OUTLET	7985	9306	7962

E.3. INSTALLATION: CARE SHALL BE EXERCISED TO PROTECT THE INSTALLED DEVICES FROM PAINT SPLATTER. DEVICES THAT HAVE BEEN DAMAGED AND/OR DEVICES THAT HAVE BEEN PAINTED OVER SHALL BE REPLACED PRIOR TO FINAL INSPECTION.

F. SWITCHES: SWITCH OUTLETS ARE GENERALLY TO BE LOCATED 6 TO 10 INCHES FROM THE DOOR JAMB ON THE LATCH SIDE OF THE DOOR WHERE POSSIBLE. COORDINATE HEIGHTS AS DIRECTED BY ARCHITECT.

G. RECEPTACLES: POWER RECEPTACLE OUTLETS SHALL BE INSTALLED FLUSH OR SURFACE MOUNTED AT THE HEIGHTS AND LOCATIONS SHOWN ON THE DRAWINGS. RECEPTACLES WITH GROUND TERMINALS SHALL BE INSTALLED WITH THE GROUND TERMINAL DOWN.

PART 5. CONDUCTORS

A. MATERIAL: CONDUCTORS SHALL BE COPPER, NO LESS THAN 98% CONDUCTIVITY, WITH 600 VOLT INSULATION. MANUFACTURER'S NAME, INSULATION TYPE AND CONDUCTORS SIZE SHALL BE IMPRINTED ON THE OUTER JACKET AT REGULAR INTERVALS. BRANCH CIRCUIT CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID TYPE THWN; NO. 8 AND LARGER SHALL BE STRANDED, TYPE THW. FEEDER CONDUCTORS SHALL BE TYPE RHW OR RHH.

B. SIZES: ALL CONDUCTOR SIZES REFER TO AWG STANDARD. MINIMUM WIRE SIZE USED IN LINE VOLTAGE POWER CIRCUITS SHALL BE NO. 12. WHERE THE FIRST DEVICE IN A BRANCH CIRCUIT OCCURS FARTHER THAN 100 FT. FROM THE PANELBOARD THE BRANCH CIRCUIT CONDUCTORS SHALL BE INCREASED TO THE NEXT LARGER SIZE.

C. COLOR CODING: CONDUCTOR COLOR CODING SHALL BE IN COMPLIANCE WITH NEC SECTION 210–5. WHERE IT IS NOT PRACTICAL TO USE COLOR CODED INSULATION, CONDUCTORS SHALL BE IDENTIFIED WITH A MINIMUM 6 INCH BAND OF THE PROPER COLORS OF TAPE OR PAINT IN ALL PANELBOARDS, SWITCHES, JUNCTION BOXES, PULL BOXES OR OTHER ENCLOSURES. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN.
CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

208Y/120 VOLT SYSTEMS:
PHASE A – BLACK
PHASE B – RED
PHASE C – BLUE
NEUTRAL – WHITE
GROUND – GREEN

D. MANUFACTURERS: CONDUCTORS SHALL BE OF THE TYPES INDICATED MANUFACTURED BY GENERAL, OKONITE, ROME OR TRIANGLE.

E. CONNECTORS: SPLICES IN CONDUCTORS SHALL BE JOINTED USING SOLDERLESS TYPE CONNECTORS. FOR SOLID CONDUCTORS, PRE–INSULATED TWIST–ON TYPE CONNECTORS SUCH AS IDEAL "WING NUT" OR BUCHANAN "B–CAP" SHALL BE USED. FOR STRANDED CONDUCTORS, HYDRAULIC OR MECHANICAL TYPE COMPRESSION CONNECTORS SHALL BE USED AND THE JOINT SHALL BE WRAPPED WITH APPROVED GUM AND FRICTION TAPES OR ELECTRICAL TYPE TO EQUAL THE CONDUCTOR INSULATION VALUE.

F. INSTALLATION: DO NOT INSTALL CONDUCTORS UNTIL ALL CONDUIT SYSTEMS ARE COMPLETE AND THE BUILDING HAS BEEN CLOSED TO THE WEATHER. USE ONLY UL APPROVED LUBRICANTS TO FACILITATE THE PULLING OF CONDUCTORS.

G. WIRING METHODS: THE WIRING SYSTEM SHALL CONSIST OF SINGLE CONDUCTOR CABLES INSTALLED IN METALLIC RACEWAY UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS SHALL BE OF THE TYPES AND SIZES SHOWN AND AS SPECIFIED HEREIN; WHERE NO TYPES OR SIZES ARE INDICATED THEY SHALL BE AS REQUIRED BY CODE. MULTI–CONDUCTOR CIRCUITS SHALL BE EMPLOYED AS INDICATED; ASSURE THAT NOT MORE THAN ONE CONDUCTOR IS CONNECTED TO THE SAME PHASE TO PREVENT OVERLOADING OF THE NEUTRAL CONDUCTOR. CIRCUIT NUMBERS INDICATED BY THE HOME RUNS ON THE DRAWINGS ARE BASICALLY FOR CIRCUIT SEPARATION; CIRCUITS SHALL BE CONNECTED TO THE PANELBOARD TO GIVE AN EVENLY BALANCED LOAD BETWEEN PHASES BASED ON NORMAL USAGE CONDITIONS OF THE CONNECTED EQUIPMENT. ANY DEPARTURE FROM THE CIRCUITING ARRANGEMENT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN WRITING.

H. MC CABLE IS APPROVED FOR CONCEALED BRANCH CIRCUIT WIRING.

PART 6. GROUNDING

A. GENERAL: EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE, ALL EXPOSED NON–CURRENT CARRYING METAL PARTS OF ELECTRIC EQUIPMENT, METALLIC RACEWAY SYSTEMS, EQUIPMENT GROUND BUS, METALLIC CABLE ARMOR, GROUNDING CONDUCTOR IN NON–METALLIC RACEWAYS AND THE NEUTRAL CONDUCTOR SHALL BE GROUNDED IN ACCORDANCE WITH NEC. BONDING OF THE GROUND TO THE POWER WIRING NEUTRAL CONDUCTOR SHALL OCCUR AT THE POINT OF SERVICE ENTRANCE ONLY. GROUND SHALL BE OBTAINED BY CONNECTING THE GROUND CONDUCTOR TO THE WATER SERVICE BY AN APPROVED TYPE CLAMP; SUPPLEMENTAL GROUNDS SHALL BE OBTAINED BY BONDING TO BUILDING STEEL AND WITH DRIVEN RODS.

B. GROUND RODS: GROUND RODS SHALL BE COPPER–CLAD STEEL NOT LESS THAN 5/8 INCH IN DIAMETER, 10 FEET LONG, DRIVEN FULL LENGTH INTO THE EARTH. MULTIPLE GROUND RODS SHALL BE INSTALLED ON NOT LESS THAN 8 FOOT CENTERS OR AS SHOWN.

C. BARE GROUND CONDUCTOR: BARE CONDUCTORS FOR BURIED GROUNDING SYSTEM USE SHALL BE BRAIDED COPPER, NO. 1 AWG MINIMUM.

D. CONNECTIONS: ALL CONNECTIONS TO GROUND RODS AND UNDERGROUND GROUNDING CABLE SHALL BE MADE WITH HYDRAULIC COMPRESSION FITTINGS OR EXOTHERMIC WELDS.

E. BUILDING EQUIPMENT GROUND CONDUCTOR: THE EQUIPMENT GROUND CONDUCTOR SHALL BE COPPER WITH GREEN INSULATION. WHERE GREEN INSULATION IS NOT AVAILABLE, A MINIMUM 6 INCH BAND OF GREEN TAPE SHALL BE APPLIED AT EACH TERMINATION POINT AND IN EACH CABINET, PULLBOX, ETC., THE CONDUCTOR PASSES THROUGH. A GROUND SHALL BE INSTALLED IN ALL PLASTIC CONDUITS, AROUND EXPANSION JOINTS, IN FLEXIBLE CONDUITS AND AS OTHERWISE INDICATED ON THE DRAWINGS. THE GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE NEC.

PART 7. ELECTRICAL SERVICE

A. DESCRIPTION: THE ELECTRICAL SERVICE TO THE BUILDING IS NEW. THE SECONDARY SERVICE CONFIGURATION SHALL BE 208/120 VOLTS, 3 PHASE, 4 WIRE WITH A GROUNDED, SOLID NEUTRAL. 1

PART 8. FUSES

A. PROVIDE A COMPLETE SET OF FUSES FOR EACH FUSIBLE SWITCH OF THE PROPER SIZE AND VOLTAGE RATING REQUIRED. ALL FUSES INSTALLED SHALL BE NEW AND A PRODUCT OF THE SAME MANUFACTURER. FUSES INSTALLED IN 120/208 OR 120/240 VOLT SYSTEMS SHALL BE RATED FOR 250VAC MINIMUM; FUSES INSTALLED IN 277/480 VOLT SYSTEMS SHALL BE RATED FOR 600VAC.

B. MANUFACTURERS: FUSES SHALL BE MANUFACTURED BY BUSSMAN, GENERAL ELECTRIC, GOULD–SHAWMUT OR RELIANCE.

C. FUSE CLASSES:

C.1. GENERAL PURPOSE FUSES: GENERAL PURPOSE FUSES SHALL BE USED FOR HEATING, LIGHTING AND OTHER NON–MOTOR LOADS WHERE HEAVY START–UP CURRENTS ARE NOT ENCOUNTERED. GENERAL PURPOSE FUSES SHALL BE CLASS H, K5 OR RK5.

C.2. TIME DELAY FUSES: TIME DELAY FUSES SHALL UTILIZE A DUAL–ELEMENT DESIGN TO ALLOW SUSTAINED HEAVY START–UP CURRENTS, SUCH AS FOR MOTORS, WITHOUT BLOWING THE FUSE. TIME DELAY FUSES SHALL BE CLASS J, RK1 OR RK5.

C.3. FAST ACTING FUSES: FAST ACTING FUSES SHALL BE USED FOR FEEDER PROTECTION, CIRCUIT BREAKER BACK–UP OR INCREASED EQUIPMENT PROTECTION. THESE FUSES SHALL BE LISTED AS CURRENT–LIMITING AND SHALL BE CLASS J, RK1, L OR T.

D. INSTALLATION: COORDINATE FUSE SIZES AND TYPES WITH THE FUSE HOLDERS OF THE INDIVIDUAL SWITCHES, STARTERS, ETC. FUSE AMPACITIES SHALL BE COORDINATED WITH THE MANUFACTURER OF THE ACTUAL EQUIPMENT BEING INSTALLED. PROVIDE ONE SET OF SPARE FUSES OF EACH TYPE AND AMPACITY.

E. COORDINATION: THE USE OF FUSES IN ANY PART OF THE POWER DISTRIBUTION SYSTEM SHALL BE COORDINATED WITH THE PANELBOARDS, SWITCHBOARDS AND CIRCUIT BREAKER SELECTED FOR USE. ANY CURRENT–LIMITING CAPABILITIES SHALL BE ACCOUNTED FOR IN A SYSTEM PROTECTIVE DEVICE COORDINATION REPORT PROVIDED BY THE ELECTRICAL CONTRACTOR IF REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

PART 9. SAFETY SWITCHES

A. SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED FOR ALL MOTORS AND OTHER EQUIPMENT AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY CODE. SWITCHES SHALL BE HEAVY DUTY TYPE, QUICK–MAKE, QUICK–BREAK IN NEMA 1 GENERAL PURPOSE ENCLOSURES WITH INTERLOCKING DOORS. WHERE EXPOSED TO THE WEATHER, MOISTURE OR WHERE SO NOTED, FURNISH SWITCHES IN NEMA 3R ENCLOSURES. SWITCHES USED IN MOTOR CIRCUITS SHALL BE HORSEPOWER RATED. WHERE FUSIBLE SWITCHES ARE INDICATED OR REQUIRED THEY SHALL BE EQUIPPED WITH REJECTION TYPE FUSE CLIPS, FURNISH COMPLETE WITH FUSES. ALL SAFETY SWITCHES SHALL BE TYPE HD BY GENERAL ELECTRIC, SQUARE D OR SIEMENS.

PART 10. PANELBOARDS

A. CONSTRUCTION: ALL PANELBOARDS SHALL BE DEADFRONT CONSTRUCTION, SURFACE OR RECESSED MOUNTED AS CALLED FOR BY THE PANELBOARD SCHEDULE. LIGHTING AND APPLIANCE PANELBOARDS SHALL HAVE A HINGED DOOR COVER WITH A FLUSH COMBINATION LATCH AND KEYED LOCK; ALL LOCKS SHALL BE KEYED ALIKE. ALL COVERS SHALL BE FINISHED WITH A FACTORY APPLIED, STANDARD GRAY ENAMEL. BACKBOXES SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL AND A MINIMUM OF 20 INCHES WIDE.

B. INTERIOR: ALL INTERIORS SHALL BE FACTORY ASSEMBLED WITH ALUMINUM BUSSING AND BOLT–ON MOLDED CASE CIRCUIT BREAKERS. CIRCUIT NUMBERING SHALL BE AS INDICATED ON THE DRAWINGS. MULTI–POLE CIRCUIT BREAKERS SHALL HAVE A COMMON INTERNAL TRIP ACTION AND SHALL BE INTERCHANGEABLE WITH SINGLE–POLE BREAKERS. WHERE "BUSSED SPACE" IS INDICATED, INCLUDE ALL NECESSARY PROVISIONS FOR ADDING ADDITIONAL BREAKERS; NO ADDITIONAL PARTS OR MODIFICATIONS TO THE BUSSING OR PANEL STRUCTURE SHALL BE REQUIRED. SEE THE PANELBOARD SCHEDULE FOR INDIVIDUAL PANELBOARD BUS RATINGS, CIRCUIT BREAKER AND SPACE REQUIREMENTS. ALL COMPONENTS OF THE PANELBOARD ASSEMBLY SHALL BE LISTED FOR USE AT THE AVAILABLE FAULT CURRENT LEVELS DETERMINED IN THE COORDINATION STUDY.

C. SERVICE ENTRANCE EQUIPMENT: EQUIPMENT USED TO PROVIDE ENTRANCE FOR THE ELECTRICAL SERVICE INTO THE FACILITY SHALL BE UL LABELED FOR SUCH USE. EQUIPMENT SHALL BE LISTED FOR USE AT THE AVAILABLE UTILITY FAULT CURRENT LEVELS.

D. MANUFACTURERS: LIGHTING AND APPLIANCE PANELBOARDS SHALL BE TYPE NQOD AS MANUFACTURED BY SQUARE D OR EQUIVALENT BY GENERAL ELECTRIC OR S

16A CONTRACTOR	
△	FOR ALL DATA OUTLETS PROVIDE CONDUIT AND PULL STRING TO ABOVE CEILINGS. ALL DATA WIRING, DEVICES AND TESTING BY OWNER.

DATA SYMBOLS	
△	DATA WALL RUN
□	WALL PHONE
○	TIME CLOCK
◈	CEILING MOUNTED WIRELESS ACCESS POINT

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS & SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS & SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS.

E. GW&L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS. ALL CONTRACTORS SHALL COORDINATED THEIR ROUGH IN WITH THE GW&L CONTRACTOR.

F. ALL DIMENSIONS TO STUDS, NOT GYPSUM BOARD. SEE WALL TYPES FOR STUD THICKNESS.

CODED NOTES:

16A 1 3/4" EMT CONDUIT WITH PULL STRING TO ABOVE CEILING.

2 (1) 3" CONDUIT AND PULL STRING TO STREET FOR METRO NET FIBER.

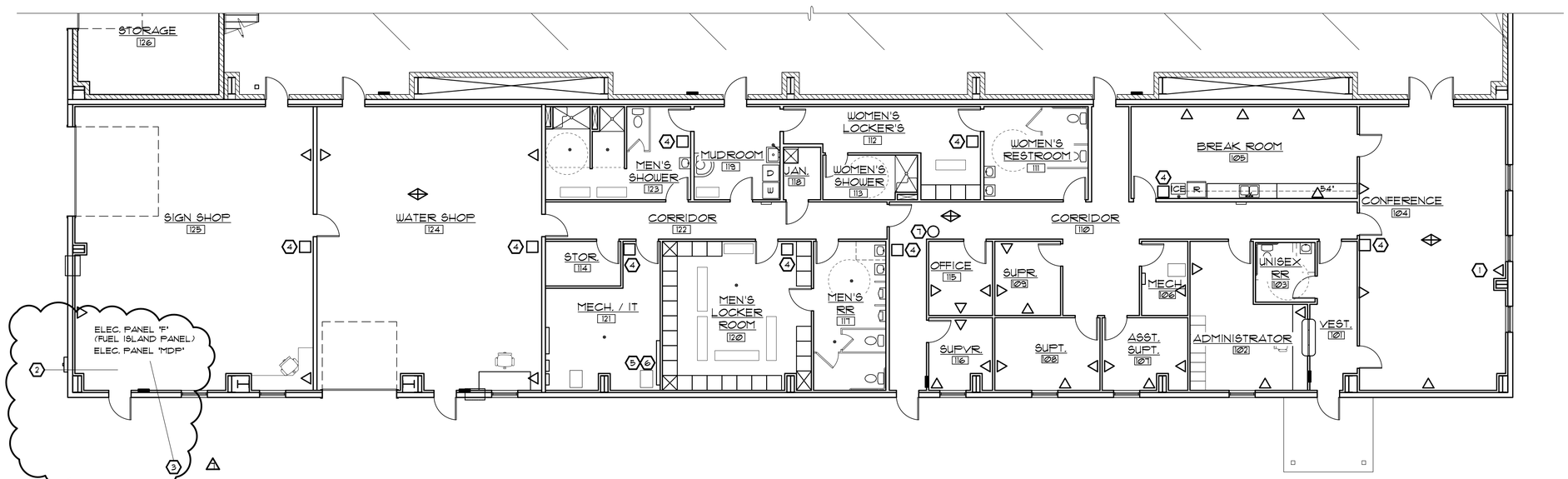
3 (1) 4" CONDUIT AND PULL STRING TO FUEL ISLAND PULL BOX (SPECS TO BE GIVEN BY OWNER). THEN PROVIDE 3" CONDUIT FOR CARD READER ON EXIT SIDE OF FULL ISLAND & THEN 2" CONDUIT ACROSS ENTRY DRIVE TO GATE ARM LOCATION & CARD READER ON EGRESS SIDE AS WELL.

16A 4 TYPICAL WALL PHONE MOUNTIES AT 48" ABOVE FLOOR. PROVIDE 3/4" EMT CONDUIT, BOX, AND PULL STRING TO ABOVE CEILING.

1A 5 INSTALL (2) 4x8 SHEETS PLYWOOD.

6 PROVIDE (2) 20 AMP 120V CIRCUIT, AND (1) 208V OUTLET 30 AMP SINGLE PHASE ON PLYWOOD.

7 TIME CLOCK WILL HAVE AN OUTLET & DATA, 54" AFF.



DATA FLOOR PLAN
SCALE: 1/8"=1'-0" 7,160 SF

ALL WORK ON THIS SHEET BY 17A UNLESS OTHERWISE NOTED.

COPYRIGHT © 2026
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

WDC GROUP
23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
info@wdc-group.com

REVISIONS:
△ 06-29-2026

STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT
CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia ohio
small city. big opportunity.

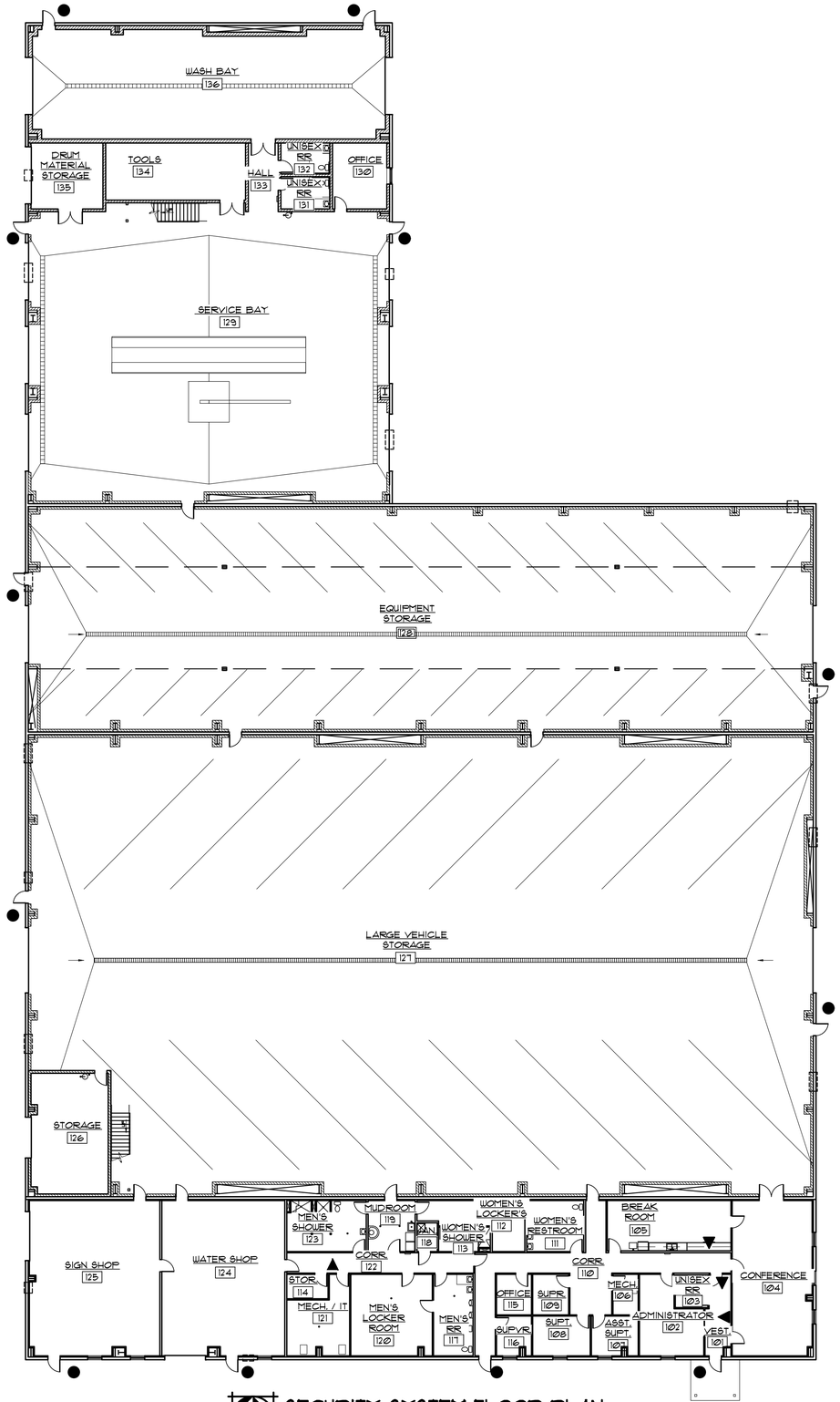
A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377

DATA FLOOR PLAN

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

E4.1
108 OF 112

BUILDING DATA PLAN



SECURITY SYSTEM FLOOR PLAN

SCALE: 1/16"=1'-0"

SECURITY SYSTEM SYMBOLS

17C ●	CARD READER AT EXTERIOR DOOR
17C ▲	CARD READER & ELECTRIC LOCKSET AT INTERIOR DOOR

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS & SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS & SPECIFICATIONS.

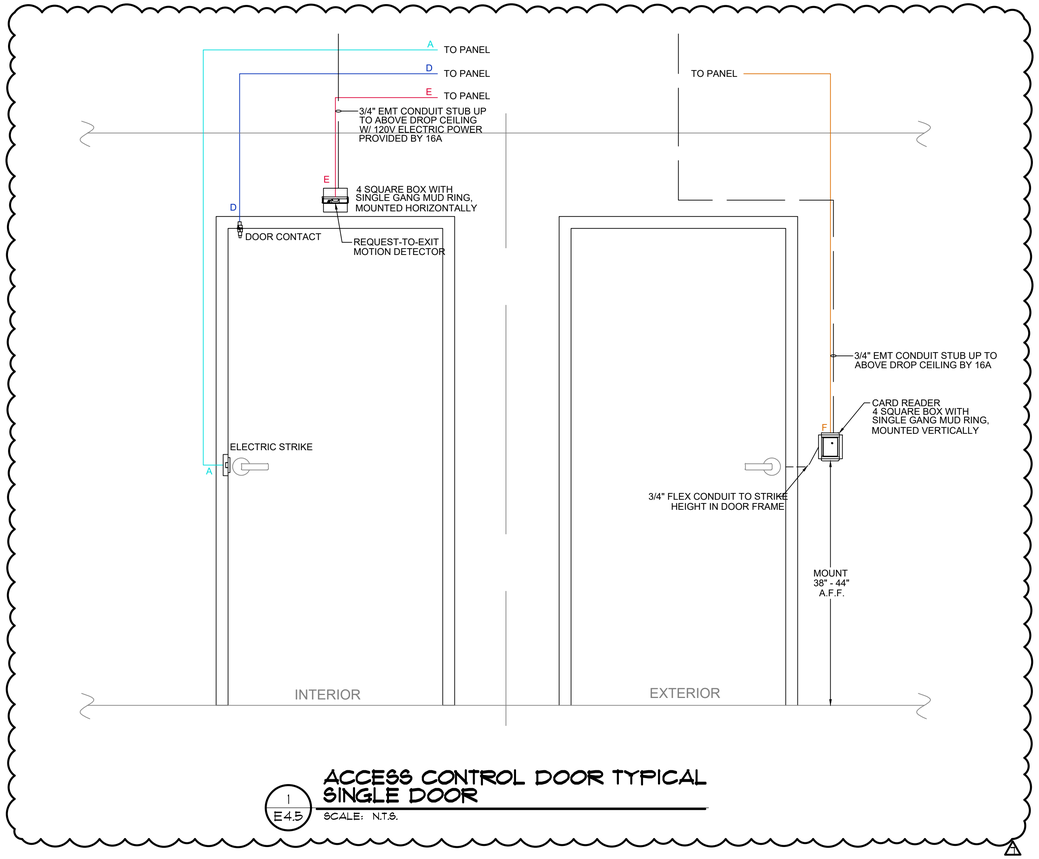
B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS.

E. GWB CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS. ALL CONTRACTORS SHALL COORDINATED THEIR ROUGH IN WITH THE GWB CONTRACTOR.

F. ALL DIMENSIONS TO STUDS, NOT GYPSUM BOARD. SEE WALL TYPES FOR STUD THICKNESS.



ACCESS CONTROL DOOR TYPICAL SINGLE DOOR

1 / E4.5

SCALE: N.T.S.

SECURITY SYSTEM PLAN

SECURITY / ALARM 17B

ACCESS CONTROL 17C

COPYRIGHT © 2026

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

WDC GROUP
23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
info@wdc-group.com

REVISIONS:
1 06-25-2026
2 06-29-2026

STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia small city, big opportunity.

A NEW PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377

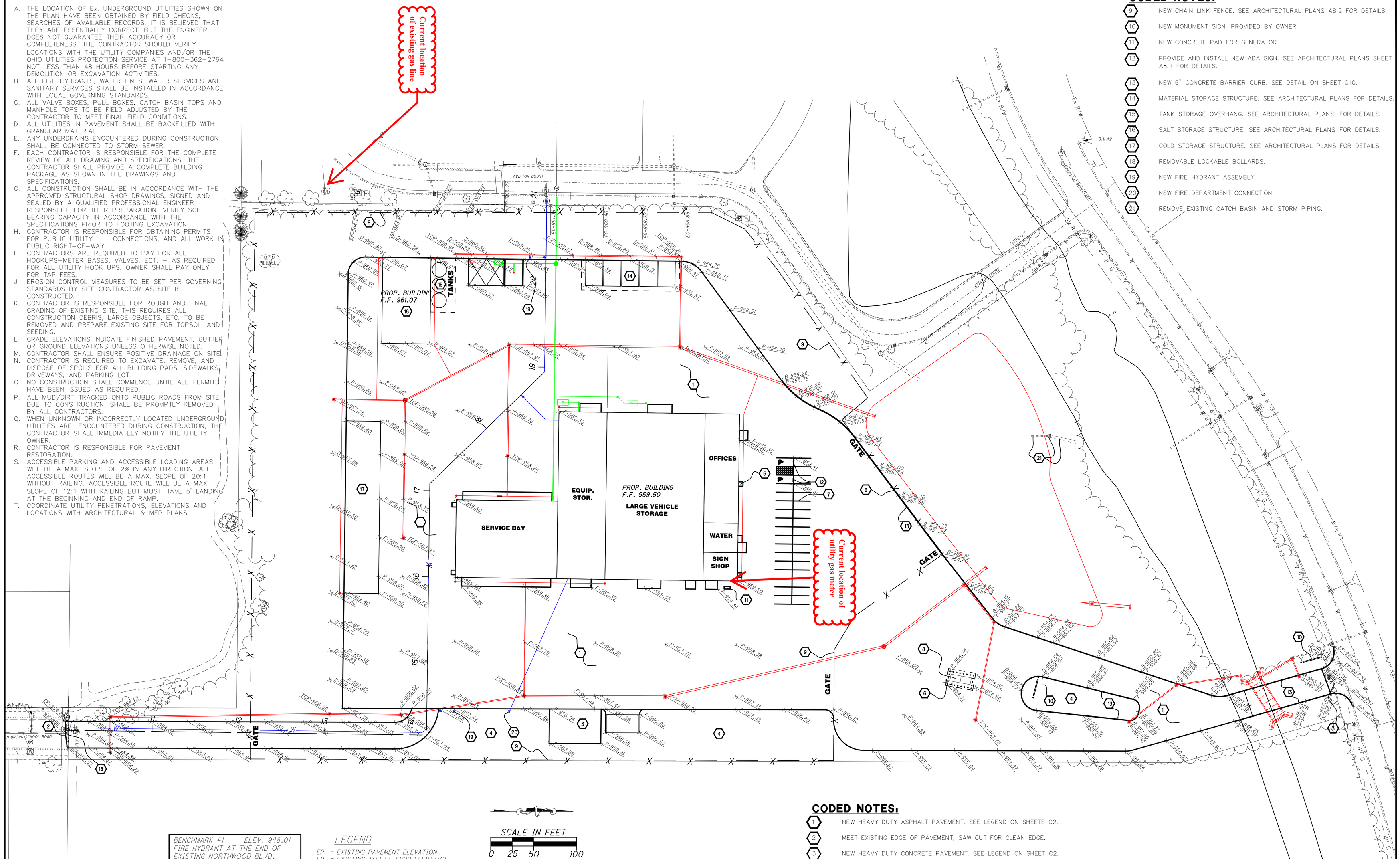
SECURITY SYSTEM FLOOR PLAN

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

E4.5
112 OF 112

P:\PROJECTS\2014_Vandalia Public Works\DWGs\Sheet\E4.5_Vandalia Public Works.dwg, 6/29/2026 9:37:33 AM, , AutoCAD PDF (General Documentation).pc3

A. THE LOCATION OF Ex. UNDERGROUND UTILITIES SHOWN ON THE PLAN HAVE BEEN OBTAINED BY FIELD CHECKS, SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHOULD VERIFY LOCATIONS WITH THE UTILITY COMPANIES AND/OR THE OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 NOT LESS THAN 48 HOURS BEFORE STARTING ANY DEMOLITION OR EXCAVATION ACTIVITIES.
B. ALL FIRE HYDRANTS, WATER LINES, WATER SERVICES AND SANITARY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL GOVERNING STANDARDS.
C. ALL VALVE BOXES, PULL BOXES, CATCH BASIN TOPS AND MANHOLE TOPS TO BE FIELD ADJUSTED BY THE CONTRACTOR TO MEET FINAL FIELD CONDITIONS.
D. ALL UTILITIES IN PAVEMENT SHALL BE BACKFILLED WITH GRANULAR MATERIAL.
E. ANY UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION SHALL BE CONNECTED TO STORM SEWER.
F. EACH CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWING AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.
G. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.
H. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR PUBLIC UTILITY CONNECTIONS, AND ALL WORK IN PUBLIC RIGHT-OF-WAY.
I. CONTRACTORS ARE REQUIRED TO PAY FOR ALL HOOKUPS-METER BASES, VALVES, ECT. - AS REQUIRED FOR ALL UTILITY HOOK UPS. OWNER SHALL PAY ONLY FOR TAP FEES.
J. EROSION CONTROL MEASURES TO BE SET PER GOVERNING STANDARDS BY SITE CONTRACTOR AS SITE IS CONSTRUCTED.
K. CONTRACTOR IS RESPONSIBLE FOR ROUGH AND FINAL GRADING OF EXISTING SITE. THIS REQUIRES ALL CONSTRUCTION DEBRIS, LARGE OBJECTS, ETC. TO BE REMOVED AND PREPARE EXISTING SITE FOR TOPSOIL AND SEEDING.
L. GRADE ELEVATIONS INDICATE FINISHED PAVEMENT, GUTTER OR GROUND ELEVATIONS UNLESS OTHERWISE NOTED.
M. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ON SITE.
N. CONTRACTOR IS REQUIRED TO EXCAVATE, REMOVE, AND DISPOSE OF SPOILS FOR ALL BUILDING PADS, SIDEWALKS, DRIVEWAYS, AND PARKING LOT.
O. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL PERMITS HAVE BEEN ISSUED AS REQUIRED.
P. ALL MUD/DIRT TRACKED ONTO PUBLIC ROADS FROM SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY ALL CONTRACTORS.
Q. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER.
R. CONTRACTOR IS RESPONSIBLE FOR PAVEMENT RESTORATION.
S. ACCESSIBLE PARKING AND ACCESSIBLE LOADING AREAS WILL BE A MAX. SLOPE OF 2% IN ANY DIRECTION. ALL ACCESSIBLE ROUTES WILL BE A MAX. SLOPE OF 20:1 WITHOUT RAILING. ACCESSIBLE ROUTE WILL BE A MAX. SLOPE OF 12:1 WITH RAILING BUT MUST HAVE 5' LANDING AT THE BEGINNING AND END OF RAMP.
T. COORDINATE UTILITY PENETRATIONS, ELEVATIONS AND LOCATIONS WITH ARCHITECTURAL & MEP PLANS.



CODED NOTES:

9. NEW CHAIN LINK FENCE. SEE ARCHITECTURAL PLANS A8.2 FOR DETAILS.
10. NEW MONUMENT SIGN. PROVIDED BY OWNER.
11. NEW CONCRETE PAD FOR GENERATOR.
12. PROVIDE AND INSTALL NEW ADA SIGN. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
13. NEW 6" CONCRETE BARRIER CURB. SEE DETAIL ON SHEET C10.
14. MATERIAL STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
15. TANK STORAGE OVERHANG. SEE ARCHITECTURAL PLANS FOR DETAILS.
16. SALT STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
17. COLD STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
18. REMOVABLE LOCKABLE BOLLARDS.
19. NEW FIRE HYDRANT ASSEMBLY.
20. NEW FIRE DEPARTMENT CONNECTION.
21. REMOVE EXISTING CATCH BASIN AND STORM PIPING.

BENCHMARK #1	ELEV. 948.01 FIRE HYDRANT AT THE END OF EXISTING NORTHWOOD BLVD. BOLT TOP FLANGE TIP OF ARROW
BENCHMARK #2	ELEV. 956.50 FIRE HYDRANT JUST WEST OF DRIVE TO ABBEY CREDIT UNION. BOLT TOP FLANGE TIP OD ARROW
BENCHMARK #3	ELEV. 957.84 FIRE HYDRANT AT END OF BROWN SCHOOL RD. NORTH BOLT TOP FLANGE.

LEGEND

EP = EXISTING PAVEMENT ELEVATION
EB = EXISTING TOP OF CURB ELEVATION
EW = EXISTING SIDEWALK ELEVATION
EG = EXISTING GROUND ELEVATION
EFL = EXISTING FLOWLINE ELEVATION
ETOP = EXISTING TOP OF GRATE ELEVATION
P = PROPOSED PAVEMENT ELEVATION
B = PROPOSED TOP OF CURB ELEVATION
W = PROPOSED SIDEWALK ELEVATION
G = PROPOSED GROUND ELEVATION
D = PROPOSED SWALE ELEVATION
TOP = PROPOSED TOP OF GRATE ELEVATION

SCALE IN FEET
0 25 50 100

NOTE:
CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHEREVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHEREVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

CODED NOTES:

1. NEW HEAVY DUTY ASPHALT PAVEMENT. SEE LEGEND ON SHEETE C2.
2. MEET EXISTING EDGE OF PAVEMENT, SAW CUT FOR CLEAN EDGE.
3. NEW HEAVY DUTY CONCRETE PAVEMENT. SEE LEGEND ON SHEET C2.
4. LANDSCAPE AREA. CONTRACTOR SHALL PROVIDE FINISH GRADE.
5. NEW 5'-0" WIDE X 4" POURED CONCRETE SIDEWALK OVER 4" COMPACTED STONE W/ W1.4 X W1.4 W.W.M.
6. NEW PIPE BOLLARDS, CONCRETE FILLED AND PAINTED. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
7. NEW PARKING SPACE LINES. PAINTED WHITE, 4" WIDE.
8. NEW FUEL TANKS. SEE ARCHITECTURAL PLANS FOR DETAILS.

ALL WORK ON THIS SHEET BY 2A UNLESS OTHERWISE NOTED.

COPYRIGHT © 2025
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF WDC GROUP, LLC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF WDC GROUP, LLC.

ChoiceOne Engineering
SIDNEY, OHIO 937.497.0200
LOVELAND, OHIO 513.239.8554
www.CHOICEONEENGINEERING.com
WDC GROUP

REVISIONS:

STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED PROFESSIONAL ENGINEER

vandalia small city. big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

PAVEMENT ELEVATION PLAN

PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 4-16-2026
CHECKED BY: MLS

C5
5 OF 18

B02-3-15-30ALL & PT31 B02-5-5-23ALL & PT33

Plat 185 Page 37

RECORD PLAN
THE SHOPPES AT NORTHWOODS
SECTION ONE

SECTION 10, TOWN 3, RANGE 6E
CITY OF VANDALIA
MONTGOMERY COUNTY, OHIO
CONTAINS 19.9663 ACRES
SCALE: 1" = 60' FEBRUARY 2002

TRANSFERRED
02 JUN 13 AM 10:25
KARL L. KEITH
AUDITOR

DEDICATION

WE, THE UNDERSIGNED, BEING ALL THE OWNERS AND LIENHOLDERS OF THE LAND HEREIN SUBDIVIDED, DO HEREBY ACKNOWLEDGE THE SIGNING DEDICATION OF THIS PLAT TO BE OF OUR VOLUNTARY ACT AND DEED.

EASEMENTS SHOWN ON THE WITHIN PLAT ARE TO BE RESERVED FOR THE CONSTRUCTION, OPERATION, MAINTENANCE, REPAIR, REPLACEMENT OR REMOVAL OF WATER, SEWER, GAS, ELECTRIC, TELEPHONE OR OTHER UTILITY LINES OR SERVICES AND FOR THE EXPRESS PRIVILEGE OF REMOVING ANY OR ALL TREES OR OTHER OBSTRUCTIONS TO THE FREE USE OF SAID EASEMENT AND FOR PROVIDING INGRESS TO AND EGRESS FROM THE PREMISES FOR SAID PURPOSES AND ARE TO BE MAINTAINED AS SUCH FOREVER.

SIGNED AND ACKNOWLEDGED IN THE PRESENCE OF:

Roberta M Jenkins
WITNESS AS TO 1

WITNESS AS TO 1

Roberta M Jenkins
WITNESS AS TO 2

WITNESS AS TO 2

NORTHWOODS ASSOCIATES, LTD

GEORGE R. OBERER, JR., PRESIDENT (1)
OF NORTHWOODS ASSOCIATES, LTD

ROBERT McCANN, TREASURER (2)
OF NORTHWOODS ASSOCIATES, LTD

STATE OF OHIO, S.S.
BE IT REMEMBERED THAT ON THIS 7 DAY OF March 2002, BEFORE ME, A NOTARY PUBLIC IN AND FOR THE STATE OF OHIO, PERSONALLY CAME GEORGE R. OBERER, JR., PRESIDENT AND ROBERT McCANN, TREASURER TO ME KNOWN AND ACKNOWLEDGED THE SIGNING AND EXECUTION OF THE WITHIN PLAT TO BE OF THEIR VOLUNTARY ACT AND DEED. IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY SEAL ON THE DAY AND DATE ABOVE WRITTEN.

Roberta M Jenkins
NOTARY PUBLIC IN AND FOR THE STATE OF OHIO

ROBERTA M. JENKINS, Notary Public In and for the State of Ohio My Commission Expires Aug. 14, 2002
MY COMMISSION EXPIRES:

SIGNED AND ACKNOWLEDGED IN THE PRESENCE OF:

Sarah Thurnwald
WITNESS AS TO 3

Greta E Burgoyne
WITNESS AS TO 3

FIRSTAR, N.A.

Pamela S. Schneider
PAMELA S. SCHNEIDER, VICE PRESIDENT (3)

STATE OF OHIO, S.S.
FOR THE STATE OF OHIO, PERSONALLY CAME PAMELA S. SCHNEIDER, VICE PRESIDENT OF FIRSTAR, N.A. TO ME KNOWN AND ACKNOWLEDGED THE SIGNING AND EXECUTION OF THE WITHIN PLAT TO BE OF HER VOLUNTARY ACT AND DEED. IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY SEAL ON THE DAY AND DATE ABOVE WRITTEN.

Greta E Burgoyne
NOTARY PUBLIC IN AND FOR THE STATE OF OHIO MY COMMISSION EXPIRES:

GRETA E. BURGOYNE Notary Public, State of Ohio My Commission Expires Jan 23, 2006

STATE OF OHIO, S.S.
GEORGE R. OBERER, JR., PRESIDENT BEING DULY SWORN, SAYS THAT THE OWNERS AND/OR CORPORATIONS TO THE BEST OF HIS KNOWLEDGE, INTERESTED IN THIS DEDICATION EITHER AS OWNERS OR LIENHOLDERS, HAVE BEEN UNITED IN ITS EXECUTION.

George R. Oberer, Jr.
GEORGE R. OBERER, JR., PRESIDENT

IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY SEAL ON THE DAY AND DATE ABOVE WRITTEN.

Roberta M Jenkins
NOTARY PUBLIC IN AND FOR THE STATE OF OHIO MY COMMISSION EXPIRES:

ROBERTA M. JENKINS, Notary Public In and for the State of Ohio My Commission Expires Aug. 14, 2002

CITY OF VANDALIA APPROVALS

Harold G. Kea 5/24/02
PLANNING COMMISSION CHAIRMAN DATE

Ron M. Lee 5-31-02
MAYOR DATE

Joyce S. Sudak 5-31-02
CLERK OF COUNCIL DATE

APPROVED AS TO DESCRIPTION

MONTGOMERY COUNTY ENGINEER

EAM/JTV 6/12/02 02-0241
CHECKED DATE FILE #

PREPARED BY
VAN ATTA ENGINEERING INC.
245 W. ELMWOOD DRIVE SUITE 202
CENTERVILLE, OHIO 45459
PHONE: (937) 438-5650
FAX: (937) 438-5645

OWNER & DEVELOPER
NORTHWOODS ASSOCIATES, LTD
4324 WEBSTER STREET
DAYTON, OHIO 45414
PH: (937) 278-0851

CERTIFICATION & DESCRIPTION

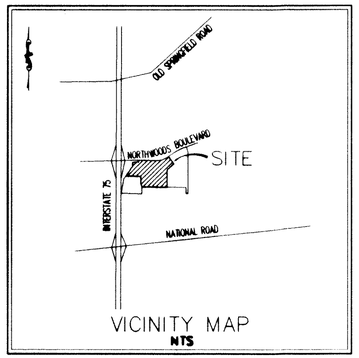
THE WITHIN DEDICATION IS 19.9663 ACRES OF A 44.2178 ACRE TRACT OF LAND CONVEYED TO NORTHWOODS ASSOCIATES, LTD. IN MF #01-0634 A01 OF THE DEED RECORDS OF MONTGOMERY COUNTY, OHIO.

THE MEASUREMENTS ARE CERTIFIED CORRECT AND IRON PINS WILL BE SET AS SHOWN. CURVED DISTANCES ARE MEASURED ON THE ARC.

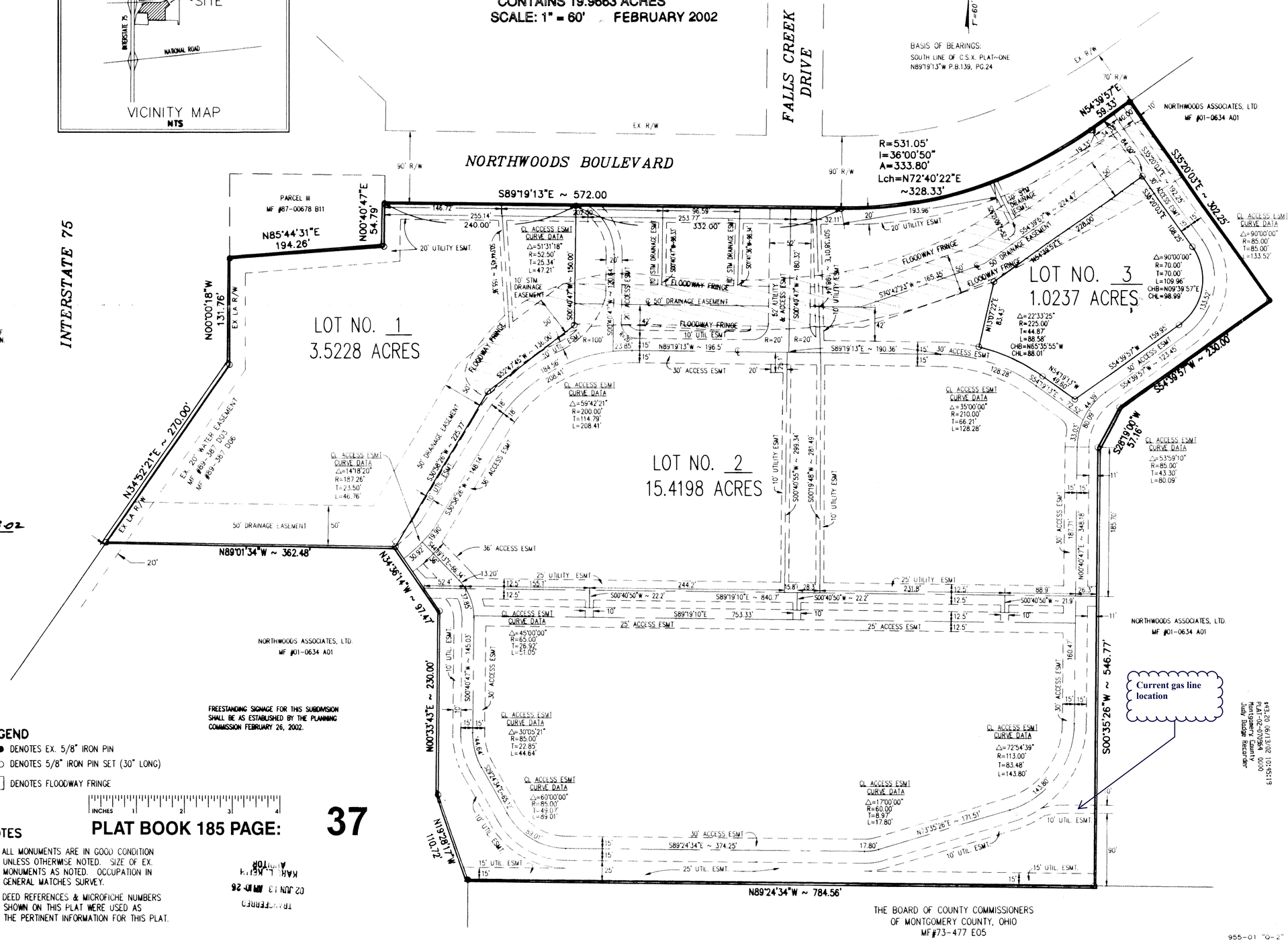
ALL WORK WAS PERFORMED IN ACCORDANCE WITH "MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO."

STATE OF OHIO JEFFREY A VAN ATTA 7354 REGISTERED PROFESSIONAL SURVEYOR

Jeffrey A Van Atta 3/1/02
JEFFREY A. VAN ATTA DATE
PROFESSIONAL OHIO REGISTERED SURVEYOR #7354



VICINITY MAP
NTS



FREESTANDING SIGNAGE FOR THIS SUBDIVISION SHALL BE AS ESTABLISHED BY THE PLANNING COMMISSION FEBRUARY 26, 2002.

LEGEND

- ● DENOTES EX. 5/8" IRON PIN
- ○ DENOTES 5/8" IRON PIN SET (30" LONG)
- ▭ DENOTES FLOODWAY FRINGE

INCHES 1 2 3 4

NOTES

1. ALL MONUMENTS ARE IN GOOD CONDITION UNLESS OTHERWISE NOTED. SIZE OF EX. MONUMENTS AS NOTED. OCCUPATION IN GENERAL MATCHES SURVEY.
2. DEED REFERENCES & MICROFICHE NUMBERS SHOWN ON THIS PLAT WERE USED AS THE PERTINENT INFORMATION FOR THIS PLAT.

PLAT BOOK 185 PAGE: 37

TRANSFERRED
02 JUN 13 AM 10:25
KARL L. KEITH
AUDITOR

THE BOARD OF COUNTY COMMISSIONERS
OF MONTGOMERY COUNTY, OHIO
MF#73-477 E05

955-01 "Q-2"

#43-20 06/13/02 10:45:19
Fee: 20.00
Montgomery County
Judy Dodge Recorder

Vandalia Utilities