TowerPinkster
Architecture · Engineering · Interiors

ADDENDUM NO. 1

DATE OF ISSUANCE:	**May 7, 2025**
PROJECT:	**Harrison REMC Addition & Renovation** **1165 Old Forest Rd** **Corydon, IN 47112**
OWNER:	**Harrison REMC**
ARCHITECT'S PROJECT NO.:	**24-179**
ORIGINAL BID ISSUE DATE:	**April 24, 2025**

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes **8** pages of text and the following documents:

- General: Pre-Bid Minutes and Sign-in sheet
- Specification Sections: 00 1113, 00 2214, 00 5200, 00 6113, 00 7200, 01 6400, 03 5400, 08 3310, 09 8000, 31 0000, 31 1000, 31 2500, 31 3116, 32 1216, 32 1600, 32 1713, 32 3111, 32 3113, 32 3223, 33 1100, 33 3000, 33 4000
- Drawings: G001, C0.0, C0.1,C C1.0, C2.0, C2.1, C3.0, C3.1, ER1, ER2, S2.3, S4.2, S4.3, AD101, AD201, A101, A103, A201, A203, A301, A324, A502, I101, I102, I303, E300, E500

CHANGES TO PREVIOUSLY ISSUED ADDENDA

None.

CHANGES TO BIDDING REQUIREMENTS

None.

CHANGES TO CONTRACT CONDITIONS

None.

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CHANGES TO SPECIFICATIONS

ADD-1 Item No. S-1 - AIA Documents

Add attached AIA Documents for Contractor's reference:
Section 00 2214 - AIA Document A701
Section 00 5200 - AIA Document A101
Section 00 6113 - AIA Document A312 Performance Bond
Section 00 6113 - AIA Document A312 Payment Bond
Section 00 7200 - AIA Document A201

ADD-1 Item No. S-2 - Schedule of Values

Section 01 2973 Schedule of Values
Add Paragraph 1.3, Item F:

F. Provide separate line items for the following costs:
   a. Bid Bond
   b. Performance Bond
   c. Payment Bond

ADD-1 Item No. S-3 - Owner-Furnished Equipment

Add attached Section 01 6400 Owner-Furnished Equipment in its entirety.

ADD-1 Item No. S-4 - Self-Leveling Floor Underlayment

Add attached Section 03 5400 Self-Leveling Concrete Floor Underlayment in its entirety.

ADD-1 Item No. S-5 - Thermal Barrier Coating

Section 07 2119 Medium Density Closed Cell Polyurethane Foam Air Barrier
Add Paragraph 1.01, Item D:

D. Thermal Barrier Coating: Sprayed cellulose thermal barrier.

   1. Product: Subject to compliance with requirements, provide one of the following:
      a. Amerrock Products; FireStop TB.
      b. Flame Seal Products, Inc.; Flame Seal-TB.
      c. International Cellulose Corporation; Ure-K.
      d. International Fireproof Technology Inc.; DC315.

   2. Color: As selected from manufacturer's full range.
   3. Passes when tested in accordance with UBC 26-2 Test Method for the Evaluation of Thermal Barriers, ASTM E 119.
   4. Fire Propagation Characteristics: Passes NFPA 285 testing as part of an approved assembly.

Add Paragraph 3.03, Item J:

J. Thermal Barrier:

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1. Spray-apply over any foamed-in-place insulation that will not be covered by gypsum board.
2. Apply in minimum thickness as recommended by manufacturer.

ADD-1 Item No. S-6 - Concealed Fastener, Flush Metal Wall Panels

Clarification: Panels specified in Section 07 4213 are located at Building 1.

ADD-1 Item No. S-7 - Rolling Fire Doors

Add attached Section 08 3310 Rolling Fire Doors in its entirety.

ADD-1 Item No. S-8 - Decorative Window Film

Section 08 8100 Glass and Glazing
Add Paragraph 2.02, Item F.

H. Decorative Glass Film:
   1. Provide the following approved product, or an approved equal:
      a. "3M" Crystal Glass Finishes, Frosted Crystal White(7725SE-324)
   2. Description:
      a. Roll Size: 48" wide x 10 yard rolls.
      b. Thickness (Film + Adhesive): 4.7 mils
      c. Film Type: Vinyl
      d. Adhesive Type: Pressure-sensitive
      e. Visible Light Transmittance: 72%
   3. See finish plans and frame elevations for locations.

ADD-1 Item No. S-9 - Pre-finished Cove Trim

Section 09 3000 Tile
Add Paragraph 2.5, Add Item B.

B. Pre-finished Cove Base:
   1. Provide pre-finished stainless steel cove trim at the transition between the tile flooring and the wall tile.
   2. Equal to "Schluter Systems" DILEX-AHK.
   3. 3/8" wide radius
   4. Configuration as required to provide proper transition between finished surface of floor tile and wall tile.
   5. Height to match thickness of the tile with top surface smooth and flush with the tile.
   6. Provide pre-finished outside and inside corners.
   7. Finish: Stainless steel.

ADD-1 Item No. S-10 - Resilient Tile Flooring

Section 09 6519 Resilient Tile Flooring
Add Paragraph 2.1, Item A, Delete Item 3.

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ADD-1 Item No. S-11 - Wall Protection

Section 09 7216 Wall Protection
Add Paragraph 2.1, Item A, Item 1, a.
Add Item 13) Provide coordinating corner guards and top cap trim. See Finish Plan and Elevations for locations.

ADD-1 Item No. S-12 - Acoustical Treatment

Add attached Section 09 8000 Acoustical Treatment in its entirety.

ADD-1 Item No. S-13 - Painting

Section 09 9000

Add Paragraph 3.10, Item O.

O. Concrete Masonry Units (interior, new construction, epoxy coating):
1st Coat – Acrylic Block Filler
"S-W, Heavy Duty Block Filler, Interior/ Exterior Acrylic, B42W150"
Apply filler coat at a rate to ensure complete coverage with pores filled.
2nd Coat – Waterbased Catalyzed Epoxy Topcoat
"S-W, Pro-Industrial" Waterbased Catalyzed Epoxy
B-73 Series (Gloss)
3rd Coat - Waterbased Catalyzed Epoxy Topcoat
"S-W, Pro-Industrial" Waterbased Catalyzed Epoxy
B-73 Series (Gloss)

ADD-1 Item No. S-14 - Dock Leveler

Section 11 1300 Loading Dock Equipment
Replace Paragraph 2.01, B 1. with the following:

1. "RiteHite", RHH4000

Replace Paragraph 2.01, B 5. with the following:

5. Activation: Electric control panel operation

ADD-1 Item No. S-15 - Pre-Engineered Building Metal Wall Panel

Section 13 3419.02 Pre-Engineered Metal Building System

Clarification: Panels specified in this section are located at Building 2.
Delete Paragraph 2.04, D.
Clarification: Fasteners described in Paragraph 2.04, E, shall be exposed.

ADD-1 Item No. S-16 - Section 2013300

- All condensate piping is to be Type L Copper tubing with sweat fitting and 95/5 solder. Insulate with 1" fiberglass.
- The use of Propress piping and fitting are allowed.

ADD-1 Item No. S-17 - Section 230100

- Pentair pumps are acceptable.

ADD-1 Item No. S-18 - Earthwork Specifications

Add the following attached Sections in their entirety:

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Section 31 0000 – Earthwork
Section 31 1000 – Site Clearing
Section 31 2500 – Erosion Control
Section 31 3116 – Termite Control

ADD-1 Item No. S-19 - Exterior Improvements Specifications

Add the following attached Sections in their entirety:
Section 32 1216 – Asphalt Concrete Paving
Section 32 1600 – Concrete Paving and Curbs
Section 32 1713 – Parking Stops
Section 32 3111 – Electric Gate Operators
Section 32 3113 – Chain Link Fences
Section 32 3223 – Segmented Retaining Wall

ADD-1 Item No. S-20 - Utilities Specifications

Add the following attached Sections in their entirety:
Section 33 1100 – Water Distribution
Section 33 3000 – Sanitary Sewage
Section 33 4000 – Site Drainage

CHANGES TO DRAWINGS

ADD-1 Item No. D-1 - Truss Layout

Sheets S2.3

Updated truss layout to create thermal separation between the exterior canopy and interior addition. Exterior trusses became T-3 and interior trusses became T-1. Added angle braces from column to truss panel points with tag note 3.

ADD-1 Item No. D-2 - Truss Profiles

Sheet S4.2

On Detail M/S4.2, the T-1 truss profile now only bears on the wall and does not extend past to the canopy beam.

ADD-1 Item No. D-3 - Truss Section

Sheet S4.3

In Section B/S4.3, the exterior trusses now reads “C.F.S Truss Beyond” since the trusses are staggered past the interior trusses.

ADD-1 Item No. D-4 - G001 COVER SHEET

Reissue sheet G001 – updated index to include new sheet/s

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ADD-1 Item No. D-5 - AD101 FIRST FLOOR DEMOLITION PLAN

Reissue sheet AD101 – Added keynote 45

ADD-1 Item No. D-6 - AD201 FIRST FLOOR DEMOLITION CEILING PLAN

Reissue sheet A201 – Added keynote 14

ADD-1 Item No. D-7 - A101 FIRST FLOOR PLAN – BUILDING 1

Reissue sheet A101 – added keynotes 40 and 41

ADD-1 Item No. D-8 - A103 ROOF PLAN – BUIDING 1

Reissue sheet A103 –

ADD-1 Item No. D-9 - A-203 ENLARGED REFLECTED CEILING PLAN

Reissue entire A-203 Sheet

ADD-1 Item No. D-10 - A-201 FIRST FLOOR REFLECTED CEILING PLAN – BUILDING 1

Reissue entire A-201 Sheet

ADD-1 Item No. D-11 - A 324 WALL SECTIONS AND DETAILS

Issue entire A 324 Sheet

ADD-1 Item No. D-12 - A 502 MISCELLANEOUS DETAILS

Reissue entire A 502 Sheet

ADD-1 Item No. D-13 - I-101 FIRST FLOOR FINISH PLAN & SCHEDULE – BUILDING 1

Reissue entire I-101 Sheet

PT1, PT2, and T1 have been discontinued. New tile selections to be issued in future addendum. Keynote B3 to be added in future addendum to match PT1.

ADD-1 Item No. D-14 - I 102 FIRST FLOOR FINISH PLAN & SCHEDULE – BUILDING 2

Issue entire I-102 Sheet

ADD-1 Item No. D-15 - I-303 INTERIOR ELEVATIONS

Reissue entire I-301 Sheet

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ADD-1 Item No. D-16 - P101 Plumbing Site Utility Plan

Coordinate location of storage building with the site plan. Location is shown for reference.

ADD-1 Item No. D-17 - P302 Plumbing – Building 1

Provide freeze-proof wall hydrants at West side of Multi-purpose/Training Room 140. Connect 3/4" cold water line to nearest main as required.

ADD-1 Item No. D-18 - FP200 Fire Protection – Building 1

The contractor will be responsible for removing and reinstalling all ceiling grid and tiles to perform fire protection scope of work, unless the ceiling grid is already removed. Replace all damaged tiles with new as required. Document condition of tiles prior to start of work. The contractor is only responsible for replacing tiles damaged during installation of fire protection system.

ADD-1 Item No. D-19 - M301 Air Distribution – Building 1

Provide 24"x10" sheet metal lines transfer openings in all full height walls, refer to architectural plans for locations.

ADD-1 Item No. D-20 - E200 – First Floor Electrical Demolition

Remove and reinstall duplex receptacles along plan northwest wall serving charging stations in existing lineman lounge. New location shall be in new lineman lounge along plan northwest wall.

ADD-1 Item No. D-21 - E300 – First Floor Lighting Plan

See sheet for updated light fixture types and new emergency wallpack locations. See "Training Room 140" for lighting control zoning.

ADD-1 Item No. D-22 - E400 First Floor Power/Systems Plan

Added above counter GFI dead front to serve fridge in "Lineman Lounge 133". Microwave in "Lineman Lounge 133" on circuit "B2-10" changed from above counter duplex to a duplex, mounting height set to 4'-8" AFF to match elevations. Reinstall duplex receptacles serving charging stations along plan north wall by plan northwest door. Added tagnote "P13" to A/V conduit box in "Training Room 140", as follows: CENTER OF BOX SHALL BE AT 4'-8" AFF IN CASEWORK. COORDINATE WITH A/V VENDOR AND CASEWORK SHOP DRAWINGS.

ADD-1 Item No. D-23 - E401 Storage Outbuilding Overall Electrical Plan

Added 120V connection for dock leveler at plan northeast. Route # of #12 conductors and a #12 ground in 3/4" conduit to 20A breaker in panel "OB2". Added 120V connection for overhead door at plan northeast. Route # of #12 conductors and a #12 ground in 3/4" conduit to 20A breaker in panel "OB2". Light switches are to be 4-Way switches

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ADD-1 Item No. D-24 - E500 Enlarged Electrical Plans

Updated location for fire pump controller/ATS, fire pump and jockey pump to match Fire Protection plans. Added jockey pump controller with power/data connections. Coordinate entire room layout and requirements with fire protection contractor prior to installation. Added tamper and flow switches. Tagnote E14 on the two VFDs in the mechanical room shall now be new tagnote E17, as follows:
VARIABLE FREQUENCY DRIVE (VFD) TO BE PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. CONTRACTOR SHALL ENSURE 3'-0" CLEARANCE IN FRONT OF VFD WITH 30" WIDE CLEAR WALKING PATH TO EQUIPMENT. LINE SIDE AND LOAD SIDE CONDUCTORS SHALL BE IN SEPARATE CONDUITS.

ADD-1 Item No. D-25 - E700 Electrical Details

Emergency wallpack fixture, “EW”, shall be as follows:

“WALL MOUNTED DUAL HEAD EMERGENCY WALLPACK WITH AIMABLE HEADS AND SELF-DIAGNOSTICS”. Basis of design is “Surelites #SELHP100R3SD”. Lithonia as equal manufacturer.

ADD-1 Item No. D-26 - UE100 Electrical Site Plan

Added 120V connection for gate controls. For plan northwest and northeast motorized gates: Route # of #10 conductors with a #10 ground in 3/4” conduit to 20A breaker in new panel “T”. For plan southwest motorized gate: Route # of #8 conductors with a #8 ground in 3/4” conduit to new/spare 20A breaker in panel “FF”. New EV charger indicated is removed. Connections are to be for the relocated EV charger instead.

END OF ADDENDUM.

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PRE-BID MINUTES

PROJECT: **Harrison REMC ADDITON & RENOVATION**

PROJECT NO.: **24179.000**

DATE: **May, 5 2025**

LOCATION: **Harrison REMC**

PRESENT:

Firm Name	Representative Name	Phone #	Email
Koetter	Derek Barnes	502-664-8311	derek@thekoettergroup.com
Certified Protection Services	Trey Kuerzi	812-734-5419	treykuerzi@yahoo.com
Excel Services	Ed Rollins	502-413-5402	erollins@excelservices.biz
Excel Services	Jason Hall	812-704-6973	jhall@excelservices.biz
AML Construction	Kelli Peterson	859-466-5656	kpeterson@amlinc.net
AML Construction	Denny Fenn	502-965-9977	dfenn@amlinc.net
Krempp Construction	Tyler Krempp	812-630-7333	tlk@krempp.net
AML Construction	Pat Mueller	502-523-3705	pmueller@amlinc.net
Krempp Construction	Ted Krempp	812-309-2750	tak@krempp.net
Shireman	James Shireman	812-968-4478	james@jlshireman.com
Shireman	Joe Shireman	812-968-0536	joeshireman@jlshireman.com
Weyer Electric	Neil Weyer	812-367-1650	neil@weyerelectric.com
Seufert	Luke Wehr	812-309-0861	lwehr@seufertconstruction.com
Seufert	Any Berg	812-631-1242	aberg@seufertconstruction.com

PURPOSE: **Pre-Bid Conference**

1. When does sprinkler need to be live?
2. What is in ALT #2?
3. 6" line ductile iron?
4. Water tap permit fire suppression. Who is paying for tap?
    a. Last questions by May 9 or 12
    b. Last addendum by May 14
5. Flow test readings

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6. Demo ceiling in panel room
7. Site electrical
8. Data conduit out to gates
9. Turtleback access? Generator
10. Include historic drawings
11. Fire alarm conduit to bldg. 2
    a. Saw cut pavement on gc or sub?
12. Everything to first panel or service drop to each.
13. Exterior fire suppression line material to valve. After valve. CMTA to confirm w/Heritage.
14. Confirm hydrant is shown
15. Pump for pressure, not for flow.
16. Cooling should stay in place until geothermal is online.
17. Fire Alarm brand?
18. Anything special on PEMB skin. Metal sales spec?
19. Sinkholes.
20. Fancy fence only on old forest?
21. Replace chain link w/black
22. Check A/E fee in contract. Article 11 - $311,000

The foregoing constitutes our understanding of matters discussed and conclusions reached. Other participants are requested to review the items and advise the undersigned in writing of any errors and/or omissions.

Respectfully submitted,

TowerPinkster

Kyle Wilson|AIA, LEED AP, ACHA, NCARB
Principal | Senior Project Architect

AS, KW

DS
cc: All Present

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Instructions to Bidders

for the following Project:
(Name, location, and detailed description)

Harrison REMC
Additions and Renovations

THE OWNER:
(Name, legal status, address, and other information)

Harrison REMC
1165 Old Forest Road
Corydon, IN 47112

THE ARCHITECT:
(Name, legal status, address, and other information)

Tower Pinkster Titus Associates, Inc
320 Pearl Street, Suite 100
New Albany, IN 47150
Telephone Number: 812.282.9554

TABLE OF ARTICLES

1 DEFINITIONS

2 BIDDER'S REPRESENTATIONS

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6 POST-BID INFORMATION

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8 ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

FEDERAL, STATE, AND LOCAL LAWS MAY IMPOSE REQUIREMENTS ON PUBLIC PROCUREMENT CONTRACTS. CONSULT LOCAL AUTHORITIES OR AN ATTORNEY TO VERIFY REQUIREMENTS APPLICABLE TO THIS PROCUREMENT BEFORE COMPLETING THIS FORM.

It is intended that AIA Document G612™–2017, Owner's Instructions to the Architect, Parts A and B will be completed prior to using this document.

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ARTICLE 1 DEFINITIONS

§ 1.1 Bidding Documents include the Bidding Requirements and the Proposed Contract Documents. The Bidding Requirements consist of the advertisement or invitation to bid, Instructions to Bidders, supplementary instructions to bidders, the bid form, and any other bidding forms. The Proposed Contract Documents consist of the unexecuted form of Agreement between the Owner and Contractor and that Agreement's Exhibits, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, all Addenda, and all other documents enumerated in Article 8 of these Instructions.

§ 1.2 Definitions set forth in the General Conditions of the Contract for Construction, or in other Proposed Contract Documents apply to the Bidding Documents.

§ 1.3 Addenda are written or graphic instruments issued by the Architect, which, by additions, deletions, clarifications, or corrections, modify or interpret the Bidding Documents.

§ 1.4 A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

§ 1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents, to which Work may be added or deleted by sums stated in Alternate Bids.

§ 1.6 An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from, or that does not change, the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

§ 1.7 A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, as described in the Bidding Documents.

§ 1.8 A Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents.

§ 1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment, or labor for a portion of the Work.

ARTICLE 2 BIDDER'S REPRESENTATIONS

§ 2.1 By submitting a Bid, the Bidder represents that:

.1 the Bidder has read and understands the Bidding Documents;

.2 the Bidder understands how the Bidding Documents relate to other portions of the Project, if any, being bid concurrently or presently under construction;

.3 the Bid complies with the Bidding Documents;

.4 the Bidder has visited the site, become familiar with local conditions under which the Work is to be performed, and has correlated the Bidder's observations with the requirements of the Proposed Contract Documents;

.5 the Bid is based upon the materials, equipment, and systems required by the Bidding Documents without exception; and

.6 the Bidder has read and understands the provisions for liquidated damages, if any, set forth in the form of Agreement between the Owner and Contractor.

ARTICLE 3 BIDDING DOCUMENTS

§ 3.1 Distribution

§ 3.1.1 Bidders shall obtain complete Bidding Documents, as indicated below, from the issuing office designated in the advertisement or invitation to bid, for the deposit sum, if any, stated therein.

(Indicate how, such as by email, website, host site/platform, paper copy, or other method Bidders shall obtain Bidding Documents.)

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§ 3.1.2 Any required deposit shall be refunded to Bidders who submit a bona fide Bid and return the paper Bidding Documents in good condition within ten days after receipt of Bids. The cost to replace missing or damaged paper documents will be deducted from the deposit. A Bidder receiving a Contract award may retain the paper Bidding Documents, and the Bidder's deposit will be refunded.

§ 3.1.3 Bidding Documents will not be issued directly to Sub-bidders unless specifically offered in the advertisement or invitation to bid, or in supplementary instructions to bidders.

§ 3.1.4 Bidders shall use complete Bidding Documents in preparing Bids. Neither the Owner nor Architect assumes responsibility for errors or misinterpretations resulting from the use of incomplete Bidding Documents.

§ 3.1.5 The Bidding Documents will be available for the sole purpose of obtaining Bids on the Work. No license or grant of use is conferred by distribution of the Bidding Documents.

§ 3.2 Modification or Interpretation of Bidding Documents

§ 3.2.1 The Bidder shall carefully study the Bidding Documents, shall examine the site and local conditions, and shall notify the Architect of errors, inconsistencies, or ambiguities discovered and request clarification or interpretation pursuant to Section 3.2.2.

§ 3.2.2 Requests for clarification or interpretation of the Bidding Documents shall be submitted by the Bidder in writing and shall be received by the Architect at least seven days prior to the date for receipt of Bids.
(Indicate how, such as by email, website, host site/platform, paper copy, or other method Bidders shall submit requests for clarification and interpretation.)

§ 3.2.3 Modifications and interpretations of the Bidding Documents shall be made by Addendum. Modifications and interpretations of the Bidding Documents made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.3 Substitutions

§ 3.3.1 The materials, products, and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution.

§ 3.3.2 Substitution Process

§ 3.3.2.1 Written requests for substitutions shall be received by the Architect at least ten days prior to the date for receipt of Bids. Requests shall be submitted in the same manner as that established for submitting clarifications and interpretations in Section 3.2.2.

§ 3.3.2.2 Bidders shall submit substitution requests on a Substitution Request Form if one is provided in the Bidding Documents.

§ 3.3.2.3 If a Substitution Request Form is not provided, requests shall include (1) the name of the material or equipment specified in the Bidding Documents; (2) the reason for the requested substitution; (3) a complete description of the proposed substitution including the name of the material or equipment proposed as the substitute, performance and test data, and relevant drawings; and (4) any other information necessary for an evaluation. The request shall include a statement setting forth changes in other materials, equipment, or other portions of the Work, including changes in the work of other contracts or the impact on any Project Certifications (such as LEED), that will result from incorporation of the proposed substitution.

§ 3.3.3 The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.

§ 3.3.4 If the Architect approves a proposed substitution prior to receipt of Bids, such approval shall be set forth in an Addendum. Approvals made in any other manner shall not be binding, and Bidders shall not rely upon them.

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§ 3.3.5 No substitutions will be considered after the Contract award unless specifically provided for in the Contract Documents.

§ 3.4 Addenda

§ 3.4.1 Addenda will be transmitted to Bidders known by the issuing office to have received complete Bidding Documents.

(Indicate how, such as by email, website, host site/platform, paper copy, or other method Addenda will be transmitted.)

§ 3.4.2 Addenda will be available where Bidding Documents are on file.

§ 3.4.3 Addenda will be issued no later than four days prior to the date for receipt of Bids, except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

§ 3.4.4 Prior to submitting a Bid, each Bidder shall ascertain that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

ARTICLE 4 BIDDING PROCEDURES

§ 4.1 Preparation of Bids

§ 4.1.1 Bids shall be submitted on the forms included with or identified in the Bidding Documents.

§ 4.1.2 All blanks on the bid form shall be legibly executed. Paper bid forms shall be executed in a non-erasable medium.

§ 4.1.3 Sums shall be expressed in both words and numbers, unless noted otherwise on the bid form. In case of discrepancy, the amount entered in words shall govern.

§ 4.1.4 Edits to entries made on paper bid forms must be initialed by the signer of the Bid.

§ 4.1.5 All requested Alternates shall be bid. If no change in the Base Bid is required, enter "No Change" or as required by the bid form.

§ 4.1.6 Where two or more Bids for designated portions of the Work have been requested, the Bidder may, without forfeiture of the bid security, state the Bidder's refusal to accept award of less than the combination of Bids stipulated by the Bidder. The Bidder shall neither make additional stipulations on the bid form nor qualify the Bid in any other manner.

§ 4.1.7 Each copy of the Bid shall state the legal name and legal status of the Bidder. As part of the documentation submitted with the Bid, the Bidder shall provide evidence of its legal authority to perform the Work in the jurisdiction where the Project is located. Each copy of the Bid shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further name the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current power of attorney attached, certifying the agent's authority to bind the Bidder.

§ 4.1.8 A Bidder shall incur all costs associated with the preparation of its Bid.

§ 4.2 Bid Security

§ 4.2.1 Each Bid shall be accompanied by the following bid security:

(Insert the form and amount of bid security.)

§ 4.2.2 The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and shall, if required, furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds if required, the amount

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of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty. In the event the Owner fails to comply with Section 6.2, the amount of the bid security shall not be forfeited to the Owner.

§ 4.2.3 If a surety bond is required as bid security, it shall be written on AIA Document A310™, Bid Bond, unless otherwise provided in the Bidding Documents. The attorney-in-fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of an acceptable power of attorney. The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 4.2.4 The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until (a) the Contract has been executed and bonds, if required, have been furnished; (b) the specified time has elapsed so that Bids may be withdrawn; or (c) all Bids have been rejected. However, if no Contract has been awarded or a Bidder has not been notified of the acceptance of its Bid, a Bidder may, beginning days after the opening of Bids, withdraw its Bid and request the return of its bid security.

§ 4.3 Submission of Bids

§ 4.3.1 A Bidder shall submit its Bid as indicated below:
(Indicate how, such as by website, host site/platform, paper copy, or other method Bidders shall submit their Bid.)

§ 4.3.2 Paper copies of the Bid, the bid security, and any other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to the party receiving the Bids and shall be identified with the Project name, the Bidder's name and address, and, if applicable, the designated portion of the Work for which the Bid is submitted. If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof.

§ 4.3.3 Bids shall be submitted by the date and time and at the place indicated in the invitation to bid. Bids submitted after the date and time for receipt of Bids, or at an incorrect place, will not be accepted.

§ 4.3.4 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

§ 4.3.5 A Bid submitted by any method other than as provided in this Section 4.3 will not be accepted.

§ 4.4 Modification or Withdrawal of Bid

§ 4.4.1 Prior to the date and time designated for receipt of Bids, a Bidder may submit a new Bid to replace a Bid previously submitted, or withdraw its Bid entirely, by notice to the party designated to receive the Bids. Such notice shall be received and duly recorded by the receiving party on or before the date and time set for receipt of Bids. The receiving party shall verify that replaced or withdrawn Bids are removed from the other submitted Bids and not considered. Notice of submission of a replacement Bid or withdrawal of a Bid shall be worded so as not to reveal the amount of the original Bid.

§ 4.4.2 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids in the same format as that established in Section 4.3, provided they fully conform with these Instructions to Bidders. Bid security shall be in an amount sufficient for the Bid as resubmitted.

§ 4.4.3 After the date and time designated for receipt of Bids, a Bidder who discovers that it made a clerical error in its Bid shall notify the Architect of such error within two days, or pursuant to a timeframe specified by the law of the jurisdiction where the Project is located, requesting withdrawal of its Bid. Upon providing evidence of such error to the reasonable satisfaction of the Architect, the Bid shall be withdrawn and not resubmitted. If a Bid is withdrawn pursuant to this Section 4.4.3, the bid security will be attended to as follows:
(State the terms and conditions, such as Bid rank, for returning or retaining the bid security.)

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ARTICLE 5 CONSIDERATION OF BIDS

§ 5.1 Opening of Bids

If stipulated in an advertisement or invitation to bid, or when otherwise required by law, Bids properly identified and received within the specified time limits will be publicly opened and read aloud. A summary of the Bids may be made available to Bidders.

§ 5.2 Rejection of Bids

Unless otherwise prohibited by law, the Owner shall have the right to reject any or all Bids.

§ 5.3 Acceptance of Bid (Award)

§ 5.3.1 It is the intent of the Owner to award a Contract to the lowest responsive and responsible Bidder, provided the Bid has been submitted in accordance with the requirements of the Bidding Documents. Unless otherwise prohibited by law, the Owner shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid which, in the Owner's judgment, is in the Owner's best interests.

§ 5.3.2 Unless otherwise prohibited by law, the Owner shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents, and to determine the lowest responsive and responsible Bidder on the basis of the sum of the Base Bid and Alternates accepted.

ARTICLE 6 POST-BID INFORMATION

§ 6.1 Contractor's Qualification Statement

Bidders to whom award of a Contract is under consideration shall submit to the Architect, upon request and within the timeframe specified by the Architect, a properly executed AIA Document A305™, Contractor's Qualification Statement, unless such a Statement has been previously required and submitted for this Bid.

§ 6.2 Owner's Financial Capability

A Bidder to whom award of a Contract is under consideration may request in writing, fourteen days prior to the expiration of the time for withdrawal of Bids, that the Owner furnish to the Bidder reasonable evidence that financial arrangements have been made to fulfill the Owner's obligations under the Contract. The Owner shall then furnish such reasonable evidence to the Bidder no later than seven days prior to the expiration of the time for withdrawal of Bids. Unless such reasonable evidence is furnished within the allotted time, the Bidder will not be required to execute the Agreement between the Owner and Contractor.

§ 6.3 Submittals

§ 6.3.1 After notification of selection for the award of the Contract, the Bidder shall, as soon as practicable or as stipulated in the Bidding Documents, submit in writing to the Owner through the Architect:

.1 a designation of the Work to be performed with the Bidder's own forces;

.2 names of the principal products and systems proposed for the Work and the manufacturers and suppliers of each; and

.3 names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for the principal portions of the Work.

§ 6.3.2 The Bidder will be required to establish to the satisfaction of the Architect and Owner the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Bidding Documents.

§ 6.3.3 Prior to the execution of the Contract, the Architect will notify the Bidder if either the Owner or Architect, after due investigation, has reasonable objection to a person or entity proposed by the Bidder. If the Owner or Architect has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, withdraw the Bid or submit an acceptable substitute person or entity. The Bidder may also submit any required adjustment in the Base Bid or Alternate Bid to account for the difference in cost occasioned by such substitution. The Owner may accept the adjusted bid price or disqualify the Bidder. In the event of either withdrawal or disqualification, bid security will not be forfeited.

§ 6.3.4 Persons and entities proposed by the Bidder and to whom the Owner and Architect have made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner and Architect.

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ARTICLE 7 PERFORMANCE BOND AND PAYMENT BOND

§ 7.1 Bond Requirements

§ 7.1.1 If stipulated in the Bidding Documents, the Bidder shall furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder.

§ 7.1.2 If the furnishing of such bonds is stipulated in the Bidding Documents, the cost shall be included in the Bid. If the furnishing of such bonds is required after receipt of bids and before execution of the Contract, the cost of such bonds shall be added to the Bid in determining the Contract Sum.

§ 7.1.3 The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 7.1.4 Unless otherwise indicated below, the Penal Sum of the Payment and Performance Bonds shall be the amount of the Contract Sum.
(If Payment or Performance Bonds are to be in an amount other than 100% of the Contract Sum, indicate the dollar amount or percentage of the Contract Sum.)

§ 7.2 Time of Delivery and Form of Bonds

§ 7.2.1 The Bidder shall deliver the required bonds to the Owner not later than three days following the date of execution of the Contract. If the Work is to commence sooner in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished and delivered in accordance with this Section 7.2.1.

§ 7.2.2 Unless otherwise provided, the bonds shall be written on AIA Document A312, Performance Bond and Payment Bond.

§ 7.2.3 The bonds shall be dated on or after the date of the Contract.

§ 7.2.4 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix to the bond a certified and current copy of the power of attorney.

ARTICLE 8 ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS

§ 8.1 Copies of the proposed Contract Documents have been made available to the Bidder and consist of the following documents:

.1 AIA Document A101™–2017, Standard Form of Agreement Between Owner and Contractor, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)

.2 AIA Document A101™–2017, Exhibit A, Insurance and Bonds, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)

.3 AIA Document A201™–2017, General Conditions of the Contract for Construction, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)

.4 AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, dated as indicated below:
(Insert the date of the E203-2013.)

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.5 Drawings

Number	Title	Date

.6 Specifications

Section	Title	Date	Pages

.7 Addenda:

Number	Date	Pages

.8 Other Exhibits:
(Check all boxes that apply and include appropriate information identifying the exhibit where required.)

[ ] AIA Document E204™–2017, Sustainable Projects Exhibit, dated as indicated below:
(Insert the date of the E204-2017.)

[ ] The Sustainability Plan:

Title	Date	Pages

[ ] Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages

.9 Other documents listed below:
(List here any additional documents that are intended to form part of the Proposed Contract Documents.)

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AIA® Document A101™ – 2017

Standard Form of Agreement Between Owner and Contractor *where the basis of payment is a Stipulated Sum*

AGREEMENT made as of the day of in the year
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

Harrison REMC
1165 Old Forest Road
Corydon, IN 47

and the Contractor:
(Name, legal status, address and other information)

for the following Project:
(Name, location and detailed description)

Harrison REMC
Additions and Renovations

The Architect:
(Name, legal status, address and other information)

Tower Pinkster Titus Associates, Inc
320 Pearl Street, Suite 100
New Albany, IN 47150

The Owner and Contractor agree as follows.

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

The parties should complete A101™–2017, Exhibit A, Insurance and Bonds, contemporaneously with this Agreement. AIA Document A201™–2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

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TABLE OF ARTICLES

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EXHIBIT A INSURANCE AND BONDS

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be:
(Check one of the following boxes.)

[ ] The date of this Agreement.

[ ] A date set forth in a notice to proceed issued by the Owner.

[ ] Established as follows:
(Insert a date or a means to determine the date of commencement of the Work.)

If a date of commencement of the Work is not selected, then the date of commencement shall be the date of this Agreement.

§ 3.2 The Contract Time shall be measured from the date of commencement of the Work.

§ 3.3 Substantial Completion

§ 3.3.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Substantial Completion of the entire Work:

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(Check one of the following boxes and complete the necessary information.)

[ ] Not later than ( ) calendar days from the date of commencement of the Work.

[ ] By the following date:

§ 3.3.2 Subject to adjustments of the Contract Time as provided in the Contract Documents, if portions of the Work are to be completed prior to Substantial Completion of the entire Work, the Contractor shall achieve Substantial Completion of such portions by the following dates:

Portion of Work	Substantial Completion Date

§ 3.3.3 If the Contractor fails to achieve Substantial Completion as provided in this Section 3.3, liquidated damages, if any, shall be assessed as set forth in Section 4.5.

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be ($), subject to additions and deductions as provided in the Contract Documents.

§ 4.2 Alternates

§ 4.2.1 Alternates, if any, included in the Contract Sum:

Item	Price

§ 4.2.2 Subject to the conditions noted below, the following alternates may be accepted by the Owner following execution of this Agreement. Upon acceptance, the Owner shall issue a Modification to this Agreement.
(Insert below each alternate and the conditions that must be met for the Owner to accept the alternate.)

Item	Price	Conditions for Acceptance

§ 4.3 Allowances, if any, included in the Contract Sum:
(Identify each allowance.)

Item	Price

§ 4.4 Unit prices, if any:
(Identify the item and state the unit price and quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price per Unit ($0.00)

§ 4.5 Liquidated damages, if any:
(Insert terms and conditions for liquidated damages, if any.)

§ 4.6 Other:
(Insert provisions for bonus or other incentives, if any, that might result in a change to the Contract Sum.)

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ARTICLE 5 PAYMENTS

§ 5.1 Progress Payments

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

§ 5.1.3 Provided that an Application for Payment is received by the Architect not later than the day of a month, the Owner shall make payment of the amount certified to the Contractor not later than the day of the month. If an Application for Payment is received by the Architect after the application date fixed above, payment of the amount certified shall be made by the Owner not later than ( ) days after the Architect receives the Application for Payment.
(Federal, state or local laws may require payment within a certain period of time.)

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form, and supported by such data to substantiate its accuracy, as the Architect may require. This schedule of values shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 In accordance with AIA Document A201™–2017, General Conditions of the Contract for Construction, and subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

§ 5.1.6.1 The amount of each progress payment shall first include:

- **.1** That portion of the Contract Sum properly allocable to completed Work;
- **.2** That portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction, or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing; and
- **.3** That portion of Construction Change Directives that the Architect determines, in the Architect's professional judgment, to be reasonably justified.

§ 5.1.6.2 The amount of each progress payment shall then be reduced by:

- **.1** The aggregate of any amounts previously paid by the Owner;
- **.2** The amount, if any, for Work that remains uncorrected and for which the Architect has previously withheld a Certificate for Payment as provided in Article 9 of AIA Document A201–2017;
- **.3** Any amount for which the Contractor does not intend to pay a Subcontractor or material supplier, unless the Work has been performed by others the Contractor intends to pay;
- **.4** For Work performed or defects discovered since the last payment application, any amount for which the Architect may withhold payment, or nullify a Certificate of Payment in whole or in part, as provided in Article 9 of AIA Document A201–2017; and
- **.5** Retainage withheld pursuant to Section 5.1.7.

§ 5.1.7 Retainage

§ 5.1.7.1 For each progress payment made prior to Substantial Completion of the Work, the Owner may withhold the following amount, as retainage, from the payment otherwise due:
(Insert a percentage or amount to be withheld as retainage from each Application for Payment. The amount of retainage may be limited by governing law.)

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§ 5.1.7.1.1 The following items are not subject to retainage:
(Insert any items not subject to the withholding of retainage, such as general conditions, insurance, etc.)

§ 5.1.7.2 Reduction or limitation of retainage, if any, shall be as follows:
(If the retainage established in Section 5.1.7.1 is to be modified prior to Substantial Completion of the entire Work, including modifications for Substantial Completion of portions of the Work as provided in Section 3.3.2, insert provisions for such modifications.)

§ 5.1.7.3 Except as set forth in this Section 5.1.7.3, upon Substantial Completion of the Work, the Contractor may submit an Application for Payment that includes the retainage withheld from prior Applications for Payment pursuant to this Section 5.1.7. The Application for Payment submitted at Substantial Completion shall not include retainage as follows:
(Insert any other conditions for release of retainage upon Substantial Completion.)

§ 5.1.8 If final completion of the Work is materially delayed through no fault of the Contractor, the Owner shall pay the Contractor any additional amounts in accordance with Article 9 of AIA Document A201–2017.

§ 5.1.9 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

§ 5.2 Final Payment

§ 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when

.1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Article 12 of AIA Document A201–2017, and to satisfy other requirements, if any, which extend beyond final payment; and

.2 a final Certificate for Payment has been issued by the Architect.

§ 5.2.2 The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment, or as follows:

§ 5.3 Interest

Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.
(Insert rate of interest agreed upon, if any.)

%

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 Initial Decision Maker

The Architect will serve as the Initial Decision Maker pursuant to Article 15 of AIA Document A201–2017, unless the parties appoint below another individual, not a party to this Agreement, to serve as the Initial Decision Maker.
(If the parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if other than the Architect.)

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§ 6.2 Binding Dispute Resolution
For any Claim subject to, but not resolved by, mediation pursuant to Article 15 of AIA Document A201–2017, the method of binding dispute resolution shall be as follows:
(Check the appropriate box.)

[ ] Arbitration pursuant to Section 15.4 of AIA Document A201–2017

[ ] Litigation in a court of competent jurisdiction

[ ] Other *(Specify)*

If the Owner and Contractor do not select a method of binding dispute resolution, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, Claims will be resolved by litigation in a court of competent jurisdiction.

ARTICLE 7 TERMINATION OR SUSPENSION
§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201–2017.

§ 7.1.1 If the Contract is terminated for the Owner's convenience in accordance with Article 14 of AIA Document A201–2017, then the Owner shall pay the Contractor a termination fee as follows:
(Insert the amount of, or method for determining, the fee, if any, payable to the Contractor following a termination for the Owner's convenience.)

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201–2017.

ARTICLE 8 MISCELLANEOUS PROVISIONS
§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201–2017 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 The Owner's representative:
(Name, address, email address, and other information)

§ 8.3 The Contractor's representative:
(Name, address, email address, and other information)

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§ 8.4 Neither the Owner's nor the Contractor's representative shall be changed without ten days' prior notice to the other party.

§ 8.5 Insurance and Bonds

§ 8.5.1 The Owner and the Contractor shall purchase and maintain insurance as set forth in AIA Document A101™–2017, Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum, Exhibit A, Insurance and Bonds, and elsewhere in the Contract Documents.

§ 8.5.2 The Contractor shall provide bonds as set forth in AIA Document A101™–2017 Exhibit A, and elsewhere in the Contract Documents.

§ 8.6 Notice in electronic format, pursuant to Article 1 of AIA Document A201–2017, may be given in accordance with AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, if completed, or as otherwise set forth below:
(If other than in accordance with AIA Document E203–2013, insert requirements for delivering notice in electronic format such as name, title, and email address of the recipient and whether and how the system will be required to generate a read receipt for the transmission.)

§ 8.7 Other provisions:

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 This Agreement is comprised of the following documents:

.1 AIA Document A101™–2017, Standard Form of Agreement Between Owner and Contractor

.2 AIA Document A101™–2017, Exhibit A, Insurance and Bonds

.3 AIA Document A201™–2017, General Conditions of the Contract for Construction

.4 AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, dated as indicated below:
(Insert the date of the E203-2013 incorporated into this Agreement.)

.5 Drawings

Number	Title	Date

.6 Specifications

Section	Title	Date	Pages

.7 Addenda, if any:

Number	Date	Pages

Portions of Addenda relating to bidding or proposal requirements are not part of the Contract Documents unless the bidding or proposal requirements are also enumerated in this Article 9.

.8 Other Exhibits:
(Check all boxes that apply and include appropriate information identifying the exhibit where required.)

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[ ] AIA Document E204™–2017, Sustainable Projects Exhibit, dated as indicated below:
(Insert the date of the E204-2017 incorporated into this Agreement.)

[ ] The Sustainability Plan:

Title	Date	Pages

[ ] Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages

.9 Other documents, if any, listed below:
(List here any additional documents that are intended to form part of the Contract Documents. AIA Document A201™–2017 provides that the advertisement or invitation to bid, Instructions to Bidders, sample forms, the Contractor's bid or proposal, portions of Addenda relating to bidding or proposal requirements, and other information furnished by the Owner in anticipation of receiving bids or proposals, are not part of the Contract Documents unless enumerated in this Agreement. Any such documents should be listed here only if intended to be part of the Contract Documents.)

This Agreement entered into as of the day and year first written above.

OWNER *(Signature)*	**CONTRACTOR** *(Signature)*
(Printed name and title)	*(Printed name and title)*

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AIA® Document A312™ – 2010

Performance Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

OWNER:
Harrison REMC
1165 Old Forest Road
Corydon, IN 47112

CONSTRUCTION CONTRACT
Date:
Amount: $
Description:
(Name and location)

Harrison REMC
Additions and Renovations

BOND
Date:
(Not earlier than Construction Contract Date)

Amount: $
Modifications to this Bond:

CONTRACTOR AS PRINCIPAL
Company: *(Corporate Seal)*
Signature: _____
Name and Title:

SURETY
Company: *(Corporate Seal)*
Signature: _____
Name and Title:

(Any additional signatures appear on the last page of this Performance Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)
AGENT or **BROKER:**

OWNER'S REPRESENTATIVE:
(Architect, Engineer or other party:)

Email Address:

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

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§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

§ 2 If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except when applicable to participate in a conference as provided in Section 3.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation under this Bond shall arise after

.1 the Owner first provides notice to the Contractor and the Surety that the Owner is considering declaring a Contractor Default. Such notice shall indicate whether the Owner is requesting a conference among the Owner, Contractor and Surety to discuss the Contractor's performance. If the Owner does not request a conference, the Surety may, within five (5) business days after receipt of the Owner's notice, request such a conference. If the Surety timely requests a conference, the Owner shall attend. Unless the Owner agrees otherwise, any conference requested under this Section 3.1 shall be held within ten (10) business days of the Surety's receipt of the Owner's notice. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default;

.2 the Owner declares a Contractor Default, terminates the Construction Contract and notifies the Surety; and

.3 the Owner has agreed to pay the Balance of the Contract Price in accordance with the terms of the Construction Contract to the Surety or to a contractor selected to perform the Construction Contract.

§ 4 Failure on the part of the Owner to comply with the notice requirement in Section 3.1 shall not constitute a failure to comply with a condition precedent to the Surety's obligations, or release the Surety from its obligations, except to the extent the Surety demonstrates actual prejudice.

§ 5 When the Owner has satisfied the conditions of Section 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

§ 5.1 Arrange for the Contractor, with the consent of the Owner, to perform and complete the Construction Contract;

§ 5.2 Undertake to perform and complete the Construction Contract itself, through its agents or independent contractors;

§ 5.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and a contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Section 7 in excess of the Balance of the Contract Price incurred by the Owner as a result of the Contractor Default; or

§ 5.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:

.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, make payment to the Owner; or

.2 Deny liability in whole or in part and notify the Owner, citing the reasons for denial.

§ 6 If the Surety does not proceed as provided in Section 5 with reasonable promptness, the Surety shall be deemed to be in default on this Bond seven days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Section 5.4, and the Owner refuses the payment or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

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§ 7 If the Surety elects to act under Section 5.1, 5.2 or 5.3, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication, for

.1 the responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;

.2 additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Section 5; and

.3 liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.

§ 8 If the Surety elects to act under Section 5.1, 5.3 or 5.4, the Surety's liability is limited to the amount of this Bond.

§ 9 The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators, successors and assigns.

§ 10 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 11 Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after a declaration of Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 12 Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears.

§ 13 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 14 Definitions

§ 14.1 Balance of the Contract Price. The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

§ 14.2 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and changes made to the agreement and the Contract Documents.

§ 14.3 Contractor Default. Failure of the Contractor, which has not been remedied or waived, to perform or otherwise to comply with a material term of the Construction Contract.

§ 14.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 14.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.

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§ 15 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 16 Modifications to this bond are as follows:

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:		Signature:	
Name and Title:		Name and Title:	
Address:		Address:	

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User Notes: (3B9ADA2A)

AIA® Document A312™ – 2010

Payment Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

OWNER:
Harrison REMC
1165 Old Forest Road
Corydon, IN 47112

CONSTRUCTION CONTRACT
Date:
Amount: $
Description:
(Name and location)

Harrison REMC
Additions and Renovations

BOND
Date:
(Not earlier than Construction Contract Date)

Amount: $
Modifications to this Bond:

CONTRACTOR AS PRINCIPAL
Company: *(Corporate Seal)*
Signature:

Name and Title:

SURETY
Company: *(Corporate Seal)*
Signature:

Name and Title:

(Any additional signatures appear on the last page of this Payment Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)
AGENT or **BROKER:**

OWNER'S REPRESENTATIVE:
(Architect, Engineer or other party:)

Email Address:

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

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§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner to pay for labor, materials and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.

§ 2 If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies and holds harmless the Owner from claims, demands, liens or suits by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond shall arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Section 13) of claims, demands, liens or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract and tendered defense of such claims, demands, liens or suits to the Contractor and the Surety.

§ 4 When the Owner has satisfied the conditions in Section 3, the Surety shall promptly and at the Surety's expense defend, indemnify and hold harmless the Owner against a duly tendered claim, demand, lien or suit.

§ 5 The Surety's obligations to a Claimant under this Bond shall arise after the following:

§ 5.1 Claimants, who do not have a direct contract with the Contractor,

.1 have furnished a written notice of non-payment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and

.2 have sent a Claim to the Surety (at the address described in Section 13).

§ 5.2 Claimants, who are employed by or have a direct contract with the Contractor, have sent a Claim to the Surety (at the address described in Section 13).

§ 6 If a notice of non-payment required by Section 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Section 5.1.1.

§ 7 When a Claimant has satisfied the conditions of Sections 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:

§ 7.1 Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and

§ 7.2 Pay or arrange for payment of any undisputed amounts.

§ 7.3 The Surety's failure to discharge its obligations under Section 7.1 or Section 7.2 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Section 7.1 or Section 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.

§ 8 The Surety's total obligation shall not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Section 7.3, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.

§ 9 Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.

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§ 10 The Surety shall not be liable to the Owner, Claimants or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to, or give notice on behalf of, Claimants or otherwise have any obligations to Claimants under this Bond.

§ 11 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 12 No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the state in which the project that is the subject of the Construction Contract is located or after the expiration of one year from the date (1) on which the Claimant sent a Claim to the Surety pursuant to Section 5.1.2 or 5.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 13 Notice and Claims to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears. Actual receipt of notice or Claims, however accomplished, shall be sufficient compliance as of the date received.

§ 14 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 15 Upon request by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor and Owner shall promptly furnish a copy of this Bond or shall permit a copy to be made.

§ 16 Definitions

§ 16.1 Claim. A written statement by the Claimant including at a minimum:

- **.1** the name of the Claimant;
- **.2** the name of the person for whom the labor was done, or materials or equipment furnished;
- **.3** a copy of the agreement or purchase order pursuant to which labor, materials or equipment was furnished for use in the performance of the Construction Contract;
- **.4** a brief description of the labor, materials or equipment furnished;
- **.5** the date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;
- **.6** the total amount earned by the Claimant for labor, materials or equipment furnished as of the date of the Claim;
- **.7** the total amount of previous payments received by the Claimant; and
- **.8** the total amount due and unpaid to the Claimant for labor, materials or equipment furnished as of the date of the Claim.

§ 16.2 Claimant. An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials or equipment were furnished.

§ 16.3 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.

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§ 16.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 16.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.

§ 17 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 18 Modifications to this bond are as follows:

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:		Signature:	
Name and Title:		Name and Title:	
Address:		Address:	

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User Notes: (3B9ADA1A)

AIA® Document A201™ – 2017

General Conditions of the Contract for Construction

for the following PROJECT:
(Name and location or address)

Harrison REMC
Additions and Renovations

THE OWNER:
Harrison REMC
1165 Old Forest Road
Corydon, IN 47

THE ARCHITECT:
(Name, legal status and address)

Tower Pinkster Titus Associates, Inc
320 Pearl Street, Suite 100
New Albany, IN 47150

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ADDITIONS AND DELETIONS:
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This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

For guidance in modifying this document to include supplementary conditions, see AIA Document A503™, Guide for Supplementary Conditions.

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ARTICLE 1 GENERAL PROVISIONS

§ 1.1 Basic Definitions

§ 1.1.1 The Contract Documents

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive, or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding or proposal requirements.

§ 1.1.2 The Contract

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants, or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 The Work

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 The Project

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by Separate Contractors.

§ 1.1.5 The Drawings

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.

§ 1.1.6 The Specifications

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 Instruments of Service

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 1.1.8 Initial Decision Maker

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2. The Initial Decision Maker shall not show partiality to the Owner or Contractor and shall not be liable for results of interpretations or decisions rendered in good faith.

§ 1.2 Correlation and Intent of the Contract Documents

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent

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consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 1.2.1.1 The invalidity of any provision of the Contract Documents shall not invalidate the Contract or its remaining provisions. If it is determined that any provision of the Contract Documents violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Contract Documents shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Contract.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 Capitalization

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles, or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 Interpretation

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 Ownership and Use of Drawings, Specifications, and Other Instruments of Service

§ 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and retain all common law, statutory, and other reserved rights in their Instruments of Service, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors, and suppliers are authorized to use and reproduce the Instruments of Service provided to them, subject to any protocols established pursuant to Sections 1.7 and 1.8, solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and suppliers may not use the Instruments of Service on other projects or for additions to the Project outside the scope of the Work without the specific written consent of the Owner, Architect, and the Architect's consultants.

§ 1.6 Notice

§ 1.6.1 Except as otherwise provided in Section 1.6.2, where the Contract Documents require one party to notify or give notice to the other party, such notice shall be provided in writing to the designated representative of the party to whom the notice is addressed and shall be deemed to have been duly served if delivered in person, by mail, by courier, or by electronic transmission if a method for electronic transmission is set forth in the Agreement.

§ 1.6.2 Notice of Claims as provided in Section 15.1.3 shall be provided in writing and shall be deemed to have been duly served only if delivered to the designated representative of the party to whom the notice is addressed by certified or registered mail, or by courier providing proof of delivery.

§ 1.7 Digital Data Use and Transmission

The parties shall agree upon protocols governing the transmission and use of Instruments of Service or any other information or documentation in digital form. The parties will use AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital data.

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§ 1.8 Building Information Models Use and Reliance

Any use of, or reliance on, all or a portion of a building information model without agreement to protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, and the requisite AIA Document G202™–2013, Project Building Information Modeling Protocol Form, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

ARTICLE 2 OWNER

§ 2.1 General

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 2.1.2 The Owner shall furnish to the Contractor, within fifteen days after receipt of a written request, information necessary and relevant for the Contractor to evaluate, give notice of, or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property on which the Project is located, usually referred to as the site, and the Owner's interest therein.

§ 2.2 Evidence of the Owner's Financial Arrangements

§ 2.2.1 Prior to commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. The Contractor shall have no obligation to commence the Work until the Owner provides such evidence. If commencement of the Work is delayed under this Section 2.2.1, the Contract Time shall be extended appropriately.

§ 2.2.2 Following commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract only if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due; or (3) a change in the Work materially changes the Contract Sum. If the Owner fails to provide such evidence, as required, within fourteen days of the Contractor's request, the Contractor may immediately stop the Work and, in that event, shall notify the Owner that the Work has stopped. However, if the request is made because a change in the Work materially changes the Contract Sum under (3) above, the Contractor may immediately stop only that portion of the Work affected by the change until reasonable evidence is provided. If the Work is stopped under this Section 2.2.2, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided in the Contract Documents.

§ 2.2.3 After the Owner furnishes evidence of financial arrangements under this Section 2.2, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.4 Where the Owner has designated information furnished under this Section 2.2 as "confidential," the Contractor shall keep the information confidential and shall not disclose it to any other person. However, the Contractor may disclose "confidential" information, after seven (7) days' notice to the Owner, where disclosure is required by law, including a subpoena or other form of compulsory legal process issued by a court or governmental entity, or by court or arbitrator(s) order. The Contractor may also disclose "confidential" information to its employees, consultants, sureties, Subcontractors and their employees, Sub-subcontractors, and others who need to know the content of such information solely and exclusively for the Project and who agree to maintain the confidentiality of such information.

§ 2.3 Information and Services Required of the Owner

§ 2.3.1 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements,

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assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.3.2 The Owner shall retain an architect lawfully licensed to practice architecture, or an entity lawfully practicing architecture, in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 2.3.3 If the employment of the Architect terminates, the Owner shall employ a successor to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 2.3.4 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.3.5 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.3.6 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

§ 2.4 Owner's Right to Stop the Work

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.5 Owner's Right to Carry Out the Work

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such default or neglect. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect and the Architect may, pursuant to Section 9.5.1, withhold or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect, or failure. If current and future payments are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 15.

ARTICLE 3 CONTRACTOR

§ 3.1 General

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of its obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

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§ 3.2 Review of Contract Documents and Field Conditions by Contractor

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed, and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.3.4, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall submit Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner, subject to Section 15.1.7, as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 Supervision and Construction Procedures

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences, or procedures, the Contractor shall evaluate the jobsite safety thereof and shall be solely responsible for the jobsite safety of such means, methods, techniques, sequences, or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely notice to the Owner and Architect, and shall propose alternative means, methods, techniques, sequences, or procedures. The Architect shall evaluate the proposed alternative solely for conformance with the design intent for the completed construction. Unless the Architect objects to the Contractor's proposed alternative, the Contractor shall perform the Work using its alternative means, methods, techniques, sequences, or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 Labor and Materials

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

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§ 3.4.2 Except in the case of minor changes in the Work approved by the Architect in accordance with Section 3.12.8 or ordered by the Architect in accordance with Section 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

§ 3.5 Warranty

§ 3.5.1 The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.5.2 All material, equipment, or other special warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with Section 9.8.4.

§ 3.6 Taxes

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 3.7 Permits, Fees, Notices and Compliance with Laws

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 Concealed or Unknown Conditions

If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 14 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend that an equitable adjustment be made in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may submit a Claim as provided in Article 15.

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§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 Allowances

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

- **.1** allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- **.2** Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and
- **.3** whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 Superintendent

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the name and qualifications of a proposed superintendent. Within 14 days of receipt of the information, the Architect may notify the Contractor, stating whether the Owner or the Architect (1) has reasonable objection to the proposed superintendent or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 Contractor's Construction and Submittal Schedules

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall contain detail appropriate for the Project, including (1) the date of commencement of the Work, interim schedule milestone dates, and the date of Substantial Completion; (2) an apportionment of the Work by construction activity; and (3) the time required for completion of each portion of the Work. The schedule shall provide for the orderly progression of the Work to completion and shall not exceed time limits current under the Contract Documents. The schedule shall be revised at appropriate intervals as required by the conditions of the Work and Project.

§ 3.10.2 The Contractor, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, shall submit a submittal schedule for the Architect's approval. The Architect's approval shall not be unreasonably delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, or fails to provide submittals in accordance with the approved submittal schedule, the

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Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 Documents and Samples at the Site

The Contractor shall make available, at the Project site, the Contract Documents, including Change Orders, Construction Change Directives, and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and the approved Shop Drawings, Product Data, Samples, and similar required submittals. These shall be in electronic form or paper copy, available to the Architect and Owner, and delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

§ 3.12 Shop Drawings, Product Data and Samples

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules, and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier, or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment, or workmanship, and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate how the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve, and submit to the Architect, Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents, in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of Separate Contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples, or similar submittals, until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from the requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples, or similar submittals, unless the Contractor has specifically notified the Architect of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals, by the Architect's approval thereof.

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§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures. The Contractor shall not be required to provide professional services in violation of applicable law.

§ 3.12.10.1 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall be entitled to rely upon the adequacy and accuracy of the performance and design criteria provided in the Contract Documents. The Contractor shall cause such services or certifications to be provided by an appropriately licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings, and other submittals prepared by such professional. Shop Drawings, and other submittals related to the Work, designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy and accuracy of the services, certifications, and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor the performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review and approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

§ 3.12.10.2 If the Contract Documents require the Contractor's design professional to certify that the Work has been performed in accordance with the design criteria, the Contractor shall furnish such certifications to the Architect at the time and in the form specified by the Architect.

§ 3.13 Use of Site

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 Cutting and Patching

§ 3.14.1 The Contractor shall be responsible for cutting, fitting, or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting, or patching shall be restored to the condition existing prior to the cutting, fitting, or patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or Separate Contractors by cutting, patching, or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter construction by the Owner or a Separate Contractor except with written consent of the Owner and of the Separate Contractor. Consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold, from the Owner or a Separate Contractor, its consent to cutting or otherwise altering the Work.

§ 3.15 Cleaning Up

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and the Owner shall be entitled to reimbursement from the Contractor.

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§ 3.16 Access to Work

The Contractor shall provide the Owner and Architect with access to the Work in preparation and progress wherever located.

§ 3.17 Royalties, Patents and Copyrights

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications, or other documents prepared by the Owner or Architect. However, if an infringement of a copyright or patent is discovered by, or made known to, the Contractor, the Contractor shall be responsible for the loss unless the information is promptly furnished to the Architect.

§ 3.18 Indemnification

§ 3.18.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation, or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

ARTICLE 4 ARCHITECT

§ 4.1 General

§ 4.1.1 The Architect is the person or entity retained by the Owner pursuant to Section 2.3.2 and identified as such in the Agreement.

§ 4.1.2 Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner, Contractor, and Architect. Consent shall not be unreasonably withheld.

§ 4.2 Administration of the Contract

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction until the date the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and promptly report to the Owner (1) known deviations from the

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Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Contractor, and (3) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of, and will not be responsible for acts or omissions of, the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 Communications

The Owner and Contractor shall include the Architect in all communications that relate to or affect the Architect's services or professional responsibilities. The Owner shall promptly notify the Architect of the substance of any direct communications between the Owner and the Contractor otherwise relating to the Project. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and suppliers shall be through the Contractor. Communications by and with Separate Contractors shall be through the Owner. The Contract Documents may specify other communication protocols.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.4.2 and 13.4.3, whether or not the Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5, and 3.12. The Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may order minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more Project representatives to assist in carrying out the Architect's responsibilities at the site. The Owner shall notify the Contractor of any change in the duties, responsibilities and limitations of authority of the Project representatives.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations

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and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either, and will not be liable for results of interpretations or decisions rendered in good faith.

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS

§ 5.1 Definitions

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a Separate Contractor or the subcontractors of a Separate Contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 Award of Subcontracts and Other Contracts for Portions of the Work

§ 5.2.1 Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the persons or entities proposed for each principal portion of the Work, including those who are to furnish materials or equipment fabricated to a special design. Within 14 days of receipt of the information, the Architect may notify the Contractor whether the Owner or the Architect (1) has reasonable objection to any such proposed person or entity or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person, or entity for one previously selected if the Owner or Architect makes reasonable objection to such substitution.

§ 5.3 Subcontractual Relations

By appropriate written agreement, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work that the Contractor, by these Contract Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies, and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor,

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prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 Contingent Assignment of Subcontracts

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

.1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor; and

.2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 Owner's Right to Perform Construction and to Award Separate Contracts

§ 6.1.1 The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and with Separate Contractors retained under Conditions of the Contract substantially similar to those of this Contract, including those provisions of the Conditions of the Contract related to insurance and waiver of subrogation.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each Separate Contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with any Separate Contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to its construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, Separate Contractors, and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces or with Separate Contractors, the Owner or its Separate Contractors shall have the same obligations and rights that the Contractor has under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6, and Articles 10, 11, and 12.

§ 6.2 Mutual Responsibility

§ 6.2.1 The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a Separate Contractor, the Contractor shall, prior to proceeding with that portion of the Work,

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promptly notify the Architect of apparent discrepancies or defects in the construction or operations by the Owner or Separate Contractor that would render it unsuitable for proper execution and results of the Contractor's Work. Failure of the Contractor to notify the Architect of apparent discrepancies or defects prior to proceeding with the Work shall constitute an acknowledgment that the Owner's or Separate Contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work. The Contractor shall not be responsible for discrepancies or defects in the construction or operations by the Owner or Separate Contractor that are not apparent.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a Separate Contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a Separate Contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage that the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or Separate Contractor as provided in Section 10.2.5.

§ 6.2.5 The Owner and each Separate Contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 Owner's Right to Clean Up

If a dispute arises among the Contractor, Separate Contractors, and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 General

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor, and Architect. A Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor. An order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents. The Contractor shall proceed promptly with changes in the Work, unless otherwise provided in the Change Order, Construction Change Directive, or order for a minor change in the Work.

§ 7.2 Change Orders

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor, and Architect stating their agreement upon all of the following:

.1 The change in the Work;
.2 The amount of the adjustment, if any, in the Contract Sum; and
.3 The extent of the adjustment, if any, in the Contract Time.

§ 7.3 Construction Change Directives

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

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.1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
.2 Unit prices stated in the Contract Documents or subsequently agreed upon;
.3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
.4 As provided in Section 7.3.4.

§ 7.3.4 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.4 shall be limited to the following:

.1 Costs of labor, including applicable payroll taxes, fringe benefits required by agreement or custom, workers' compensation insurance, and other employee costs approved by the Architect;
.2 Costs of materials, supplies, and equipment, including cost of transportation, whether incorporated or consumed;
.3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others;
.4 Costs of premiums for all bonds and insurance, permit fees, and sales, use, or similar taxes, directly related to the change; and
.5 Costs of supervision and field office personnel directly attributable to the change.

§ 7.3.5 If the Contractor disagrees with the adjustment in the Contract Time, the Contractor may make a Claim in accordance with applicable provisions of Article 15.

§ 7.3.6 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.7 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 Minor Changes in the Work

The Architect may order minor changes in the Work that are consistent with the intent of the Contract Documents and do not involve an adjustment in the Contract Sum or an extension of the Contract Time. The Architect's order for minor changes shall be in writing. If the Contractor believes that the proposed minor change in the Work will

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affect the Contract Sum or Contract Time, the Contractor shall notify the Architect and shall not proceed to implement the change in the Work. If the Contractor performs the Work set forth in the Architect's order for a minor change without prior notice to the Architect that such change will affect the Contract Sum or Contract Time, the Contractor waives any adjustment to the Contract Sum or extension of the Contract Time.

ARTICLE 8 TIME

§ 8.1 Definitions

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 8.2 Progress and Completion

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, commence the Work prior to the effective date of insurance required to be furnished by the Contractor and Owner.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 Delays and Extensions of Time

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by (1) an act or neglect of the Owner or Architect, of an employee of either, or of a Separate Contractor; (2) by changes ordered in the Work; (3) by labor disputes, fire, unusual delay in deliveries, unavoidable casualties, adverse weather conditions documented in accordance with Section 15.1.6.2, or other causes beyond the Contractor's control; (4) by delay authorized by the Owner pending mediation and binding dispute resolution; or (5) by other causes that the Contractor asserts, and the Architect determines, justify delay, then the Contract Time shall be extended for such reasonable time as the Architect may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 Contract Sum

§ 9.1.1 The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.1.2 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed so that application of such unit prices to the actual quantities causes substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 9.2 Schedule of Values

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit a schedule of values to the Architect before the first Application for Payment, allocating the entire Contract Sum to the various portions of the Work. The schedule of values shall be prepared in the form, and supported by the data to substantiate its accuracy, required by the Architect. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment. Any changes to the schedule of values shall be submitted to the Architect and supported by such data to substantiate its accuracy as the Architect may require, and

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unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's subsequent Applications for Payment.

§ 9.3 Applications for Payment

§ 9.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2, for completed portions of the Work. The application shall be notarized, if required, and supported by all data substantiating the Contractor's right to payment that the Owner or Architect require, such as copies of requisitions, and releases and waivers of liens from Subcontractors and suppliers, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage, and transportation to the site, for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information, and belief, be free and clear of liens, claims, security interests, or encumbrances, in favor of the Contractor, Subcontractors, suppliers, or other persons or entities that provided labor, materials, and equipment relating to the Work.

§ 9.4 Certificates for Payment

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either (1) issue to the Owner a Certificate for Payment in the full amount of the Application for Payment, with a copy to the Contractor; or (2) issue to the Owner a Certificate for Payment for such amount as the Architect determines is properly due, and notify the Contractor and Owner of the Architect's reasons for withholding certification in part as provided in Section 9.5.1; or (3) withhold certification of the entire Application for Payment, and notify the Contractor and Owner of the Architect's reason for withholding certification in whole as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Contractor is entitled to payment in the amount certified. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion, and to specific qualifications expressed by the Architect. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

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§ 9.5 Decisions to Withhold Certification

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- **.1** defective Work not remedied;
- **.2** third party claims filed or reasonable evidence indicating probable filing of such claims, unless security acceptable to the Owner is provided by the Contractor;
- **.3** failure of the Contractor to make payments properly to Subcontractors or suppliers for labor, materials or equipment;
- **.4** reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- **.5** damage to the Owner or a Separate Contractor;
- **.6** reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- **.7** repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When either party disputes the Architect's decision regarding a Certificate for Payment under Section 9.5.1, in whole or in part, that party may submit a Claim in accordance with Article 15.

§ 9.5.3 When the reasons for withholding certification are removed, certification will be made for amounts previously withheld.

§ 9.5.4 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or supplier to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Contractor shall reflect such payment on its next Application for Payment.

§ 9.6 Progress Payments

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors and suppliers to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay, or to see to the payment of money to, a Subcontractor or supplier, except as may otherwise be required by law.

§ 9.6.5 The Contractor's payments to suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

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§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors or provided by suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, create any fiduciary liability or tort liability on the part of the Contractor for breach of trust, or entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.6.8 Provided the Owner has fulfilled its payment obligations under the Contract Documents, the Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or supplier of any tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner shall notify the Contractor. If approved by the applicable court, when required, the Contractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

§ 9.7 Failure of Payment

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents, the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, upon seven additional days' notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided for in the Contract Documents.

§ 9.8 Substantial Completion

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in the Certificate. Upon such acceptance, and consent of surety if any, the Owner shall make payment of retainage applying to the Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

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§ 9.9 Partial Occupancy or Use

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor, and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

§ 9.10 Final Completion and Final Payment

§ 9.10.1 Upon receipt of the Contractor's notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection. When the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect, (3) a written statement that the Contractor knows of no reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment, (5) documentation of any special warranties, such as manufacturers' warranties or specific Subcontractor warranties, and (6) if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts and releases and waivers of liens, claims, security interests, or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien, claim, security interest, or encumbrance. If a lien, claim, security interest, or encumbrance remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging the lien, claim, security interest, or encumbrance, including all costs and reasonable attorneys' fees.

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed, corrected, and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of the surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

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§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

- **.1** liens, Claims, security interests, or encumbrances arising out of the Contract and unsettled;
- **.2** failure of the Work to comply with the requirements of the Contract Documents;
- **.3** terms of special warranties required by the Contract Documents; or
- **.4** audits performed by the Owner, if permitted by the Contract Documents, after final payment.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor, or a supplier, shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 Safety of Persons and Property

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to

- **.1** employees on the Work and other persons who may be affected thereby;
- **.2** the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor; and
- **.3** other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with, and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, bearing on safety of persons or property or their protection from damage, injury, or loss.

§ 10.2.3 The Contractor shall implement, erect, and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards; promulgating safety regulations; and notifying the owners and users of adjacent sites and utilities of the safeguards.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3. The Contractor may make a Claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

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§ 10.2.8 Injury or Damage to Person or Property

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, notice of the injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 Hazardous Materials and Substances

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials or substances. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and notify the Owner and Architect of the condition.

§ 10.3.2 Upon receipt of the Contractor's notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of the material or substance or who are to perform the task of removal or safe containment of the material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up.

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss, or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for hazardous materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for hazardous materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall reimburse the Owner for the cost and expense the Owner incurs (1) for remediation of hazardous materials or substances the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall reimburse the Contractor for all cost and expense thereby incurred.

§ 10.4 Emergencies

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

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ARTICLE 11 INSURANCE AND BONDS

§ 11.1 Contractor's Insurance and Bonds

§ 11.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Contractor shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Owner, Architect, and Architect's consultants shall be named as additional insureds under the Contractor's commercial general liability policy or as otherwise described in the Contract Documents.

§ 11.1.2 The Contractor shall provide surety bonds of the types, for such penal sums, and subject to such terms and conditions as required by the Contract Documents. The Contractor shall purchase and maintain the required bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 11.1.3 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

§ 11.1.4 Notice of Cancellation or Expiration of Contractor's Required Insurance. Within three (3) business days of the date the Contractor becomes aware of an impending or actual cancellation or expiration of any insurance required by the Contract Documents, the Contractor shall provide notice to the Owner of such impending or actual cancellation or expiration. Upon receipt of notice from the Contractor, the Owner shall, unless the lapse in coverage arises from an act or omission of the Owner, have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by the Contractor. The furnishing of notice by the Contractor shall not relieve the Contractor of any contractual obligation to provide any required coverage.

§ 11.2 Owner's Insurance

§ 11.2.1 The Owner shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Owner shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located.

§ 11.2.2 Failure to Purchase Required Property Insurance. If the Owner fails to purchase and maintain the required property insurance, with all of the coverages and in the amounts described in the Agreement or elsewhere in the Contract Documents, the Owner shall inform the Contractor in writing prior to commencement of the Work. Upon receipt of notice from the Owner, the Contractor may delay commencement of the Work and may obtain insurance that will protect the interests of the Contractor, Subcontractors, and Sub-Subcontractors in the Work. When the failure to provide coverage has been cured or resolved, the Contract Sum and Contract Time shall be equitably adjusted. In the event the Owner fails to procure coverage, the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent the loss to the Owner would have been covered by the insurance to have been procured by the Owner. The cost of the insurance shall be charged to the Owner by a Change Order. If the Owner does not provide written notice, and the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain the required insurance, the Owner shall reimburse the Contractor for all reasonable costs and damages attributable thereto.

§ 11.2.3 Notice of Cancellation or Expiration of Owner's Required Property Insurance. Within three (3) business days of the date the Owner becomes aware of an impending or actual cancellation or expiration of any property insurance required by the Contract Documents, the Owner shall provide notice to the Contractor of such impending or actual cancellation or expiration. Unless the lapse in coverage arises from an act or omission of the Contractor: (1) the Contractor, upon receipt of notice from the Owner, shall have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by either the Owner or the Contractor; (2) the Contract Time and Contract Sum shall be equitably adjusted; and (3) the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent any loss to the Owner would have been covered by the insurance had it not expired or been cancelled. If the Contractor purchases replacement coverage, the cost of the insurance shall be charged to the Owner by an appropriate Change Order. The furnishing of notice by the Owner shall not relieve the Owner of any contractual obligation to provide required insurance.

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§ 11.3 Waivers of Subrogation

§ 11.3.1 The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents, and employees, each of the other; (2) the Architect and Architect's consultants; and (3) Separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees, for damages caused by fire, or other causes of loss, to the extent those losses are covered by property insurance required by the Agreement or other property insurance applicable to the Project, except such rights as they have to proceeds of such insurance. The Owner or Contractor, as appropriate, shall require similar written waivers in favor of the individuals and entities identified above from the Architect, Architect's consultants, Separate Contractors, subcontractors, and sub-subcontractors. The policies of insurance purchased and maintained by each person or entity agreeing to waive claims pursuant to this section 11.3.1 shall not prohibit this waiver of subrogation. This waiver of subrogation shall be effective as to a person or entity (1) even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, (2) even though that person or entity did not pay the insurance premium directly or indirectly, or (3) whether or not the person or entity had an insurable interest in the damaged property.

§ 11.3.2 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, to the extent permissible by such policies, the Owner waives all rights in accordance with the terms of Section 11.3.1 for damages caused by fire or other causes of loss covered by this separate property insurance.

§ 11.4 Loss of Use, Business Interruption, and Delay in Completion Insurance

The Owner, at the Owner's option, may purchase and maintain insurance that will protect the Owner against loss of use of the Owner's property, or the inability to conduct normal operations, due to fire or other causes of loss. The Owner waives all rights of action against the Contractor and Architect for loss of use of the Owner's property, due to fire or other hazards however caused.

§11.5 Adjustment and Settlement of Insured Loss

§ 11.5.1 A loss insured under the property insurance required by the Agreement shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.5.2. The Owner shall pay the Architect and Contractor their just shares of insurance proceeds received by the Owner, and by appropriate agreements the Architect and Contractor shall make payments to their consultants and Subcontractors in similar manner.

§ 11.5.2 Prior to settlement of an insured loss, the Owner shall notify the Contractor of the terms of the proposed settlement as well as the proposed allocation of the insurance proceeds. The Contractor shall have 14 days from receipt of notice to object to the proposed settlement or allocation of the proceeds. If the Contractor does not object, the Owner shall settle the loss and the Contractor shall be bound by the settlement and allocation. Upon receipt, the Owner shall deposit the insurance proceeds in a separate account and make the appropriate distributions. Thereafter, if no other agreement is made or the Owner does not terminate the Contract for convenience, the Owner and Contractor shall execute a Change Order for reconstruction of the damaged or destroyed Work in the amount allocated for that purpose. If the Contractor timely objects to either the terms of the proposed settlement or the allocation of the proceeds, the Owner may proceed to settle the insured loss, and any dispute between the Owner and Contractor arising out of the settlement or allocation of the proceeds shall be resolved pursuant to Article 15. Pending resolution of any dispute, the Owner may issue a Construction Change Directive for the reconstruction of the damaged or destroyed Work.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 Uncovering of Work

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an equitable adjustment to

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the Contract Sum and Contract Time as may be appropriate. If such Work is not in accordance with the Contract Documents, the costs of uncovering the Work, and the cost of correction, shall be at the Contractor's expense.

§ 12.2 Correction of Work

§ 12.2.1 Before Substantial Completion

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, discovered before Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 After Substantial Completion

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of notice from the Owner to do so, unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.5.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction of the Owner or Separate Contractors, whether completed or partially completed, caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.3 Acceptance of Nonconforming Work

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 Governing Law

The Contract shall be governed by the law of the place where the Project is located, excluding that jurisdiction's choice of law rules. If the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.

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§ 13.2 Successors and Assigns

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to covenants, agreements, and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate the assignment.

§ 13.3 Rights and Remedies

§ 13.3.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

§ 13.3.2 No action or failure to act by the Owner, Architect, or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed upon in writing.

§ 13.4 Tests and Inspections

§ 13.4.1 Tests, inspections, and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules, and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

§ 13.4.2 If the Architect, Owner, or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection, or approval not included under Section 13.4.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection, or approval, by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.4.3, shall be at the Owner's expense.

§ 13.4.3 If procedures for testing, inspection, or approval under Sections 13.4.1 and 13.4.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Architect's services and expenses, shall be at the Contractor's expense.

§ 13.4.4 Required certificates of testing, inspection, or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.4.5 If the Architect is to observe tests, inspections, or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.4.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.5 Interest

Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at the rate the parties agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

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ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 Termination by the Contractor

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, for any of the following reasons:

.1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;

.2 An act of government, such as a declaration of national emergency, that requires all Work to be stopped;

.3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or

.4 The Owner has failed to furnish to the Contractor reasonable evidence as required by Section 2.2.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, repeated suspensions, delays, or interruptions of the entire Work by the Owner as described in Section 14.3, constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, as well as reasonable overhead and profit on Work not executed, and costs incurred by reason of such termination.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, or their agents or employees or any other persons or entities performing portions of the Work because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 Termination by the Owner for Cause

§ 14.2.1 The Owner may terminate the Contract if the Contractor

.1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;

.2 fails to make payment to Subcontractors or suppliers in accordance with the respective agreements between the Contractor and the Subcontractors or suppliers;

.3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or

.4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the reasons described in Section 14.2.1 exist, and upon certification by the Architect that sufficient cause exists to justify such action, the Owner may, without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

.1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;

.2 Accept assignment of subcontracts pursuant to Section 5.4; and

.3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance,

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the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 Suspension by the Owner for Convenience

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work, in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay, or interruption under Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

.1 that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for which the Contractor is responsible; or

.2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 Termination by the Owner for Convenience

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of notice from the Owner of such termination for the Owner's convenience, the Contractor shall

.1 cease operations as directed by the Owner in the notice;

.2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and

.3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Owner shall pay the Contractor for Work properly executed; costs incurred by reason of the termination, including costs attributable to termination of Subcontracts; and the termination fee, if any, set forth in the Agreement.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 Claims

§ 15.1.1 Definition

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, a change in the Contract Time, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim. This Section 15.1.1 does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract Documents.

§ 15.1.2 Time Limits on Claims

The Owner and Contractor shall commence all Claims and causes of action against the other and arising out of or related to the Contract, whether in contract, tort, breach of warranty or otherwise, in accordance with the requirements of the binding dispute resolution method selected in the Agreement and within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all Claims and causes of action not commenced in accordance with this Section 15.1.2.

§ 15.1.3 Notice of Claims

§ 15.1.3.1 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party under this Section 15.1.3.1 shall be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

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§ 15.1.3.2 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party. In such event, no decision by the Initial Decision Maker is required.

§ 15.1.4 Continuing Contract Performance

§ 15.1.4.1 Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

§ 15.1.4.2 The Contract Sum and Contract Time shall be adjusted in accordance with the Initial Decision Maker's decision, subject to the right of either party to proceed in accordance with this Article 15. The Architect will issue Certificates for Payment in accordance with the decision of the Initial Decision Maker.

§ 15.1.5 Claims for Additional Cost

If the Contractor wishes to make a Claim for an increase in the Contract Sum, notice as provided in Section 15.1.3 shall be given before proceeding to execute the portion of the Work that is the subject of the Claim. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.6 Claims for Additional Time

§ 15.1.6.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, notice as provided in Section 15.1.3 shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.6.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated, and had an adverse effect on the scheduled construction.

§ 15.1.7 Waiver of Claims for Consequential Damages

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

.1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and

.2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit, except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.7 shall be deemed to preclude assessment of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 Initial Decision

§ 15.2.1 Claims, excluding those where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2 or arising under Sections 10.3, 10.4, and 11.5, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim. If an initial decision has not been rendered within 30 days after the Claim has been referred to the Initial Decision Maker, the party asserting the Claim may demand mediation and binding dispute resolution without a decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the

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Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of the request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished, or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of receipt of an initial decision, demand in writing that the other party file for mediation. If such a demand is made and the party receiving the demand fails to file for mediation within 30 days after receipt thereof, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 Mediation

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract, except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.7, shall be subject to mediation as a condition precedent to binding dispute resolution.

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 Either party may, within 30 days from the date that mediation has been concluded without resolution of the dispute or 60 days after mediation has been demanded without resolution of the dispute, demand in writing that the other party file for binding dispute resolution. If such a demand is made and the party receiving the demand fails to file for binding dispute resolution within 60 days after receipt thereof, then both parties waive their rights to binding dispute resolution proceedings with respect to the initial decision.

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§ 15.3.4 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 Arbitration

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. The Arbitration shall be conducted in the place where the Project is located, unless another location is mutually agreed upon. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement, shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 Consolidation or Joinder

§ 15.4.4.1 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as those of the Owner and Contractor under this Agreement.

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SECTION 01 6400 - OWNER-FURNISHED EQUIPMENT

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

A. Section Includes:

1. Description of work.
2. Definitions.
3. Protection and Cleaning.
4. Building Systems.

1.2 DESCRIPTION OF WORK

A. Coordinate the installation of the equipment or system with all trades. Any problem noted shall be brought to the attention of the Architect. This notification must be submitted in writing and no claims for additional work shall be considered unless the request for clarification has been initiated by the Contractor.

B. Work includes installation of owner furnished items as noted on drawings and coordination of owner installed items with owner's representatives, and vendors and suppliers.

1.3 DEFINITIONS

A. OFCI: (Owner Furnished - Contractor Installed)

1. The Owner shall be responsible for furnishing equipment or system for installation by Contractor.
2. The Contractor shall be responsible for receiving, storing, protecting, providing all rough-in services, installing and testing of the equipment or system. The Contractor shall receive, inventory, verify quantity and condition and notify the Owner of any discrepancies or damage. The Contractor shall provide coordination, blocking, connections and all provisions necessary to fully incorporate into the project, scope, building and site.

B. CFCI: (Contractor Furnished - Contractor Installed)

1. The Contractor shall be responsible for ordering, receiving, storing, protecting, installing and testing of the equipment or system.
2. Unless otherwise noted, ALL work shown on drawings and specified is C.F.C.I.

C. OFOI: (Owner Furnished - Owner Installed)

1. The Owner shall be responsible for furnishing and installing this equipment or system.
2. The Contractor shall be required to furnish any rough-ins as shown on the Contract Documents, and cooperate with the Owner and their vendors to coordinate this work with work of the Contract.

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1.4 PROTECTION & CLEANING

A. Contractor shall protect and clean all O.F.C.I. items, treating them the same as if they had been purchased by the contractor.

1.5 BUILDING SYSTEMS

A. Voice/Data Network System:

1. Owner's Responsibility:
   a. Will determine the type of system to be used.
   b. Provide, install and connect all wire and cable from ultimate outlet locations to patch panels and patch cords from patch panels to system equipment.
   c. Complete final connections and testing and certification of those connections between ultimate outlet locations and patch panels.
   d. Furnish and install system equipment complete: servers, computers, routers, racks, patch panels, patch cords, handsets, switches, etc.

2. Contractor's Responsibility:
   a. Provide and install all cable tray, conduit, backboxes, junction boxes, backboards, power outlets, outlet devices and plates, ventilation, sleeves through walls and other items or work not specifically indicated.
   b. See Electrical Drawings and Specifications for additional information and clarification.
   c. Coordinate with Owner’s vendor/installer.

B. Multi-Purpose Room A/V System:

1. Owner’s Responsibility:
   a. Will determine the type of system to be used.
   b. Furnish and install system equipment complete.
   c. Provide, install and connect all wire and cable from ultimate outlet location to system equipment.

2. Contractor’s Responsibility:
   a. Provide and install all cable tray, conduit, backboxes, junction boxes, backboards, power outlets, outlet devices and plates, ventilation, sleeves through walls and other items or work not specifically indicated.
   b. See Electrical Drawings and Specifications for additional information and clarification.
   c. Coordinate with Owner’s vendor/installer.

C. Building Security and Camera System:

1. Owner’s Responsibility:
   a. Will determine the type of system to be used.
   b. Furnish and install system equipment complete.
   c. Provide, install and connect all wire and cable complete.

2. Contractor’s Responsibility:

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a. Provide and install all cable tray, conduit, backboxes, junction boxes, backboards, power outlets, outlet devices and plates, ventilation, sleeves through walls and other items or work not specifically indicated.
b. See Electrical Drawings and Specifications for additional information and clarification.
c. Coordinate with Owner's vendor/installer.

D. Fire Alarm System:

1. Owner's Responsibility:
   a. Will determine the type of system to be used.
   b. Furnish and install system equipment complete.
   c. Provide, install and connect all wire and cable complete.

2. Contractor's Responsibility:
   a. Provide and install all cable tray, conduit, backboxes, junction boxes, backboards, power outlets, outlet devices and plates, ventilation, sleeves through walls and other items or work not specifically indicated.
   b. See Electrical Drawings and Specifications for additional information and clarification.
   c. Coordinate with Owner's vendor/installer.

E. Electronic Door Access Control System:

1. Owner's Responsibility:
   a. Will determine the type of system to be used.
   b. Furnish and install system equipment complete.
   c. Provide and install all wire and cable and connections between various equipment, door hardware and components, and between access control system components as required for a complete and operational system.

2. Contractor's Responsibility:
   a. Provide and install door hardware and components as included in bid documents.
   b. Provide and install all conduit, backboxes, junction boxes, power outlets, outlet devices and plates, sleeves through walls and other items or work not specifically indicated.
   c. Coordinate exact locations of backboxes in walls and ceilings prior to rough-in.
   d. Coordinate with Owner's vendor/installer.
   e. See Electrical Drawings and Specifications for additional information and clarification.

F. All Other Items Indicated on Drawings as O.F.C.I.

1. Owner's Responsibility:
   a. Will determine the type system to be used.
   b. Deliver items to job site.

2. Contractor's Responsibility:
   a. Provide coordination, blocking and install items.
   b. Provide any and all connections and provisions necessary to fully incorporate into the project.

END OF SECTION 01 6400

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SECTION 03 5400 - SELF-LEVELING CONCRETE FLOOR UNDERLAYMENT

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish labor, material, equipment, special tools, supervision, and services required to prep substrate and properly place self-leveling concrete floor underlayment as indicated on drawings and specified herein.

1.2 QUALITY ASSURANCE

A. Installer's Qualifications: Installation of underlayment shall be by an applicator authorized by the manufacturer using manufacturer's approved mixing and pumping equipment.

1.3 DELIVERY, STORAGE AND HANDLING

A. General Requirements: Materials shall be delivered in their original, unopened packages, and protected from exposure to the elements. Damaged or deteriorated materials shall be removed from the premises.

1.4 SITE CONDITIONS

A. Environmental Requirements: Before, during and after installation of underlayment, building interior shall be enclosed and maintained at a temperature above 50 degrees F (10 degrees C) and below 100 degrees F (37.7 degrees C) until structure and subfloor temperature are stabilized.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Cementitious Self-Leveling Poured Floor Underlayment: Floor underlayment compound to be Level-Right Self-Leveling Floor Underlayment as manufactured by Maxxon Corporation or approved equivalent.

B. Sand Aggregate: Sand shall be silica aggregate meeting requirements of manufacturer.

C. Mix Water: Potable, free from impurities.

D. Subfloor Primer: Underlayment manufacturer's recommended primer as required.

E. Sealer: Underlayment manufacturer's recommended sealer as required.

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2.2 MIX DESIGNS

A. General Requirements: Underlayment mix proportions and methods shall be in strict accordance with product manufacturer recommendations.

PART 3 - EXECUTION

3.1 PREPARATION

A. Condition and Cleaning of Subfloor: Subfloor shall be structurally sound. Contractor shall clean subfloor to remove mud, oil, grease, and other contaminating factors.

B. Leak Prevention: Fill cracks and voids with a quick setting patching or caulking material where leakage of underlayment could occur.

C. Priming Subfloor: Prime concrete subfloor using the manufacturer's recommended primer. Priming instructions vary according to the porosity of the concrete, multiple coats may be necessary.

D. Expansion Joints: Allow joints to continue through the underlayment at the same width.

3.2 APPLICATION OF SELF-LEVELING UNDERLAYMENT

A. Scheduling: Application of underlayment shall not begin until the building is enclosed, including roof, windows, doors, and other fenestration.

B. Application: Place underlayment at minimum thickness required to provide a level surface throughout room(s) noted on the Drawings. Spread and float to a smooth surface. Except at authorized joints, place underlayment as continuously as possible until application is complete so that no slurry is placed against underlayment that has obtained its initial set.

C. Drying: Contractor shall provide continuous ventilation and adequate heat while curing.

3.3 PREPARATION FOR INSTALLATION OF FLOORING

A. Sealing:

1. Seal all areas according to manufacturer's recommendations.
2. Verify sealer compatibility with flooring adhesives prior to installation.

B. Refer to manufacturer's guidelines for additional information regarding flooring installation.

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3.4 FIELD QUALITY CONTROL

A. Slump Test: Underlayment mix shall be tested for slump as it is being pumped using a 2 inch by 4 inch (50 mm by 101 mm) cylinder resulting in a patty size of 9 1/2 inches (241 mm) plus or minus 1 inch (25 mm) diameter.

B. Field Samples: At least one set of 3 molded cube samples shall be taken from each day's pour during the underlayment application. Cubes shall be tested as recommended by the manufacturer in accordance with modified ASTM C 109. Test results shall be available to architect and/or contractor upon request from applicator.

3.5 PROTECTION

A. Protection From Heavy Loads: During construction, place temporary wood planking over underlayment wherever it will be subject to heavy wheeled or concentrated loads.

END OF SECTION 03 5400

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SECTION 08 3310 – ROLLING FIRE DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Rolling fire service doors.

1.2 REFERENCES

A. ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

B. ASTM A 666 - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.

C. ASTM A 924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

D. NFPA-80 – Standard for Fire Doors and Fire Windows.

1.3 DESIGN / PERFORMANCE REQUIREMENTS

A. Fire Rated Assemblies: Provide assemblies complying with NFPA 80 and listed in UL Directory or Intertek Testing Services (Warnock Hersey Listed) Directory.

1.4 SUBMITTALS

A. Submit under provisions of Section 01 3300.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Details of construction and fabrication.
4. Installation methods.

C. Shop Drawings: Include detailed plans and elevations, details of framing members, anchoring methods, clearances, hardware, and accessories.

D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches long, representing actual product, color, and patterns.

F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

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G. Operation and Maintenance Data: Submit lubrication requirements and frequency, and periodic adjustments required.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience.

B. Installer Qualifications: Installer Qualifications: Company approved by manufacturer, specializing in performing Work of this section with minimum three years experience, with IDEA Certified Installers and service technicians on staff.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.

C. Store materials in a dry, warm, ventilated weathertight location.

1.7 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 COORDINATION

A. Coordinate Work with other operations and installation of adjacent materials to avoid damage to installed materials.

1.9 WARRANTY

A. Manufacturer’s Warranty: Provide manufacturer’s two year limited warranty.

B. Warranty: Manufacturer’s limited door and operators System warranty of all parts and components of the system except counterbalance spring and finish for 3 years or 20,000 cycles, whichever comes first.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design Manufacturer: Overhead Door Corporation, 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD.
Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499.
Web Site: www.overheaddoor.com. E-mail: info@overheaddoor.com.

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B. Alternative Manufacturer
1. Equivalent product requests for substitutions will be considered in accordance with provisions of Section 01 6200.

2.2 ROLLING FIRE SERVICE DOORS

A. Rolling Fire Service Doors: FireKing Model 630 Fire Doors.
1. Label: Provide fire doors certified with the following listing.
a. Rolling fire doors over 144 sf and not exceeding 18 ft in height or width shall receive the FM Oversize Fire Door Label with masonry or steel construction. Doors over 18 ft must be reviewed and certified by FM.
2. Curtain: Interlocking roll-formed slats as specified following. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.
a. Curved profile type C-187 for doors over 14 feet thru 20 feet wide, fabricated of:
1) 20 gauge galvanized steel.
3. Finish:
a. Galvanized Steel: Slats and hood galvanized steel to ASTM A 653 finished with a rust-inhibitive roll coating process, including bonderizing, a 0.2 mils thick baked prime paint, and a 0.6 mils thick baked top coat.
1) Polyester Top Coat.
(a) Gray polyester.
4. Bottom Bar:
a. Two black powder coated structural steel angles 1-1/2 inch by 1-1/2 inch by 1/8 inch minimum.
5. Guides: Three structural steel angles.
a. Fastening Guides to Masonry Fire Walls: UL listed for fire in accordance with manufacturer's listing.
b. Fastening Guides to Masonry Fire Walls: UL listed for fire and smoke in accordance with manufacturer's listing.
c. Fastening Guides to Non-Masonry Fire Walls: Comply with the manufacturer's listing.
6. Brackets:
a. Hot rolled steel to support counterbalance, curtain and hood
7. Finish; Bottom Bar, Guides, and Brackets:
a. Finish: Black powdercoat finish.
8. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03 inch per foot of span. Counterbalance is adjustable by means of an adjusting tension wheel.
9. Hood:
a. Fabricate of 24 gauge galvanized primed steel minimum for wall openings thru 19 feet wide.
b. Hood equipped with thermally controlled, internal, galvanized steel flame baffle as required for FM listing.
c. Provide one intermediate support bracket for wall openings over 13 feet 6 inches wide
10. Manual Operation:
a. Floor resettable chain hoist.

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11. Automatic Closure Standard Fire Door: UL approved release mechanism equipped with a 165 degree fusible link.
    a. Doors will be equipped with chain hoist release mechanism, requiring only one sash chain to be routed to the operated side (sash chain not required to be routed to adjusting wheel side.)
        1) Release mechanism includes planetary gear differential system.
        2) Door will close by a thermally actuated link rated @165 degrees F, or by an optional listed releasing device, or by manually activating the release handle.
        3) All counterbalance spring tension shall be maintained when the release mechanism is activated.
        4) After closing by manual activation of the release handle, the door shall be able to be reset by one person from one side of the door (re-engaging the release handle). No tools are required to reset the release mechanism.
12. Governor: If required by the size for chain hoist doors, provide a viscous governor to regulate the rate of descent of door in a quiet manner. Use an engagement type that is not engaged during normal door operation, but after cable release, will retard the speed during automatic door closure to under 24 inches per second and not less than 6 inches per second per NFPA 80.
13. Locking:
    a. Two interior bottom bar slide bolts for manually operated doors.
14. Wall Mounting Condition:
    a. Face-of-wall mounting.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify opening sizes, tolerances and conditions are acceptable.

B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.

C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions.

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B. Install rolling counter fire doors in compliance with requirements of NFPA 80. Test fire-release system and reset components after testing.

C. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.

D. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.

E. Fit and align assembly including hardware; level and plumb, to provide smooth operation.

F. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07 9200.

G. Install perimeter trim and closures.

3.4 ADJUSTING

A. Test for proper operation and adjust as necessary to provide proper operation without binding or distortion.

B. Adjust hardware and operating assemblies for smooth and noiseless operation.

3.5 FIELD QUALITY CONTROL

A. Functional testing of fire door and window assemblies shall be performed by IDEA Certified personnel with knowledge and understanding of the operating components of the type of door being subject to testing.

3.6 CLEANING

A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.

B. Remove labels and visible markings.

C. Touch-up, repair or replace damaged products before Substantial Completion.

3.7 PROTECTION

A. Protect installed products until completion of project.

END OF SECTION

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SECTION 09 8000 ACOUSTICAL TREATMENT

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section including the following.
   1. Ceiling-suspended open-ended linear acoustical baffles.
   2. Accessories: Mounting Hardware.

1.2 SUBMITTALS

A. Product Data: Submit for each product indicating materials, dimensions, profiles and colors. Include installation instructions.

B. Shop Drawings: Submit shop drawings indicating plans, elevations, mounting hardware, and mounting details.

1. Verification Samples: Submit representative sample of specified products including chain set of color options.

1.3 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.

B. Storage and Handling: Comply with manufacturer's recommendations for storage and handling. Protect from weather damage.

1.4 WARRANTY

A. Warranty: Provide manufacturer's standard two year warranty against defects in manufacturing.

PART 2 - PRODUCTS

2.1 CEILING-SUSPENDED OPEN-ENDED LINEAR ACOUSTICAL BAFFLES

A. Product: Ceiling Baffles
   1. Description: Acoustical open-ended ceiling hangers.
   2. Basis-of-Design: “Frasch” Linyfelt 8L.
   3. Standard Material Thickness: 9mm
   4. Length: As shown on Drawings.

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5. Height: Variable height layout as shown on Drawings.
6. Style: Filleted Rectangle.
7. Color: As shown on Drawings.
8. Product Properties:
    a. Composition: 100% polyethylene terephthalate (PET) 55% recycled content.
    b. Environmental Health Factors: Low VOC emissions – ASTM D5116.
    c. Fire Testing: ASTM E 84 Class A.
    d. Sound Absorption: ASTM C423 - 0.75 NRC.

B. Accessories: As applicable to the project and listed below.
1. Hardware including spike bracket, unistrut and connectors.
2. Provide all necessary trim and hardware for a complete installation.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine existing conditions to determine that they are suitable for installation. Proceed with installation only when unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Clean substrates of projections and substances detrimental to application.

B. Install units in accordance with manufacturer's instructions, approved submittals, and in proper relationship to adjacent construction.

C. Mount multi-bracket directly to the gypsum board ceiling.

3.3 ADJUSTING AND CLEANING

A. Adjust units for proper position, uniform appearance and operation.

B. Clean exposed and semi-exposed surfaces using materials acceptable to manufacturer.

END OF SECTION

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SECTION 31 0000 - EARTHWORK

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Work generally includes, but not by way of limitation, the following:

1. The extent of earthwork is shown on drawings.
2. Engineered fill for building support.
3. Preparation of subgrade for foundations and slab-on-grade.
4. Backfilling of trenches for utilities and services.
5. Excavation and backfilling for building.
6. Cut and fill of project site.
7. Computer generated cut and fill calculations.
8. Subgrade shall be graded to drain during the entire construction period.
9. Geotextile fabric to act for soil stabilization, soil separation, weed barrier, or moisture barrier in a variety of earthwork, sitework or landscape applications.

B. Contractor is responsible for implementing any proper means and methods necessary to complete work of this section based on normal seasonal environmental conditions.

C. No additional compensation will be considered for contractor's assumption that work would be completed under ideal environmental conditions.

D. Unless otherwise allowed by the Architect, it shall be assumed that all excavated rock shall be removed from the site and disposed of by the Contractor.

E. Unless otherwise directed by the Architect, it shall be assumed that all needed materials shall be brought in from offsite and supplied and installed by the Contractor.

F. Unless otherwise directed by the Architect, it shall be assumed that all excess materials shall be removed from the site and hauled off and disposed of offsite by the Contractor.

1.2 QUALITY ASSURANCE

A. Codes and Standards:

1. Perform excavation work in compliance with applicable requirements of governing authorities having jurisdiction.

B. Testing and Inspection Service:

1. Contractor will provide a Soils Engineer, as acceptable to the Architect, for testing and inspection service for quality control testing during all earthwork operation.
2. See Section 01 4500 - Quality Control.

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3. If not already covered by another Section of these Specifications, submit Soils Engineer's credentials for acceptance.

C. Soils Engineer representative must be present to observe and perform tests at all times any soil work or earthwork activities are in progress:

1. Determine suitability of materials for compacted fill, backfill and engineered fill.
2. Determine preparation and placing of materials for fill, backfill and engineered fill.
3. Determine maximum density of optimum moisture content for placing and compacting materials.
4. Perform necessary field density tests to insure adequate compaction for fill, backfill and engineered fill, for each compacted layer of fill.
5. Perform necessary field inspection of different phases of earthwork.
6. Perform necessary field inspection for borrow pits.

D. Surveyor shall verify property lines, right-of-way; establish correct levels, lines and grades; completely layout work required.

1.3 SUBMITTALS

A. Written copy of test reports of all tests to the Architect within 48 hours.

1.4 SITE CONDITIONS

A. Site Information:

1. Data on indicated subsurface conditions are not intended as representations of warranties of accuracy of continuity between soil borings.
2. It is expressly understood that neither the Owner nor its consultants will be responsible for interpretations or conclusions drawn by the Contractor. Data is made available solely for convenience of Contractor.
3. Additional test boring and other exploratory operations may be made by Contractor at no cost to the Owner.

B. Existing Utilities:

1. Locate existing under ground utilities in areas of work. If utilities are to remain in place, provide adequate means of protection during earthwork operations.
2. Should uncharted, or incorrectly charted, piping or other utilities be encountered during excavation, consult utility owner immediately for directions and notify Architect. Cooperate with the Owner and utility companies in keeping respective services and facilities in operation.
3. Do not interrupt existing utilities serving facilities occupied and used by the Owner or others, except when permitted in writing by Architect and then only after acceptable temporary utility services have been provided.
4. Demolish and completely remove from Owner's property existing under ground utilities indicated to be removed or required to be removed for completion of the Work. Coordinate with utility companies for shut-off services if lines are active.

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C. Explosives:

1. Explosives will not be permitted.

D. Cut and Fill Material Quantities:

1. It is expressly understood that neither the Owner, Architect or their consultants will be responsible for quantities of cut or fill required to achieve the final grades indicated on the drawings.
2. Neither the Owner, Architect or their consultants will be responsible for the type of material existing on the site or its quality for use as a particular type of fill.
3. The contractor is responsible for reviewing existing conditions and proposed design in detail as he determines sufficient for calculating the extent of the work and materials required.
4. Contractor will be allowed to dig test holes during bidding. A minimum of 24 hours notice to owner of the anticipated locations and depths will be required.
5. Contractor shall not assume a "balanced" project of cut and fill quantities.

E. The Contractor shall consider the timing required for all earthwork for the entire project. He shall include in his bid all work and costs associated with the proper protection, procedures and materials required for the weather and environmental conditions for the time of year the work is to occur. No additional costs will be borne by the Owner, Architect or their consultants for failure by the Contractor to include these costs in the bid.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Fill:

1. Earth, free of vegetation, waste, humus, rocks, boulders, stones, bricks, batts, plaster, mortar or other debris.
2. Broken concrete, block or brick shall not be used for fill.
3. Rocks larger than 3 inches in any dimension shall not be used within subgrade.
4. Plasticity index (PI) less than 35.
5. Maximum dry density according to the Standard Proctor Compaction Test, minimum 100 pcf. Modified Proctor Compaction Test may be performed in lieu of Standard Proctor Compaction Test.

B. Mass Backfill:

1. Suitable earth removed from the excavation, free of rocks, boulders, stones larger than 2 inches or other building materials debris.
2. Brown sandy clays may be used for backfill around exterior of foundations.
3. Topsoil and soil containing decomposed organic materials shall be considered suitable for topsoil fill material only.
4. Aeration of some backfill may be required for compaction.
5. Plasticity index (PI) less than 35.
6. Maximum dry density according to the standard Proctor compaction test, minimum 100 pcf. Modified Proctor Compaction Test may be performed in lieu of Standard Proctor Compaction Test.

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C. Trench Backfill:

1. Sand for all typical locations.
2. Onsite soil may be used for fill from 12 inches above pipes in grassy areas in lieu of sand. Intent is to not have sand or gravel bedding stone visible at the top of the excavation in grassy areas.

D. Engineered Fill:

1. Cohesive and stable earth as described above, suitable for bearing.

E. Drainage Fill / Granular Fill:

1. Washed, evenly graded mixture of crushed stone, crushed gravel, uncrushed gravel or river gravel.
2. Contain maximum 5% by weights, passing No. 8 sieve, 100% passing 1 inch sieve.
3. Sand will not be an acceptable drainage fill/granular fill material.

F. Top Soil:

1. Natural, fertile, agricultural soil, capable of sustaining vigorous plant and lawn growth.
2. Uniform composition throughout, without admixture of subsoil.
3. Free of stones, lumps, clods, sod, live plants and their roots, sticks and other extraneous matter.

2.2 GEOTEXTILE FABRIC

A. Equal to: “Propex GeoSynthetics”, Geotex 200ST.

B. Description:

1. Woven slit film geotextile fabric.
2. Individual films shall be woven together to provide dimensional stability relative to each other.
3. Resistant to ultraviolet degradation and to biological and chemical environments normally present in soils and subsurface conditions.

C. Quality Control and Performance Standards:

1.	Tensile Strength:	200 lbs (ASTM D-4632).
2.	Elongation:	12% (ASTM D-4632).
3.	Puncture:	90 lbs. (ASTM D-4833).
4.	CBR Puncture:	700 lbs. (ASTM D-6241).
5.	Mullen Burst:	400 psi (ASTM D-3786).
6.	Trapezoidal Tear:	75 lbs. (ASTM D-4533).
7.	UV Resistance:	70% retained at 500 hrs (ASTM D-4355).
8.	Apparent Opening Size:	40 US Standard Sieve (ASTM D-4751).
9.	Permittivity:	.05 sec (ASTM D-4491).
10.	Water Flow Rate:	4 gpm/ft2 (ASTM D-4491).

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PART 3 - EXECUTION

3.1 INSPECTION

A. Contractor shall thoroughly review the existing conditions, prior to bidding or starting earthwork. This includes topography, soil materials, site access, etc. and the schedule requirements to complete the work of this section without delaying other trades or the overall project schedule.

B. Review conditions of property adjacent to the site. Do not alter storm drainage, access, utilities etc. to the adjacent property without prior approval of Architect and Owner.

3.2 PROTECTION

A. Maintain excavation banks and pit walls in a safe and stable conditions.

B. Provide sheet piling, shoring and bracing as necessary to maintain excavation banks and pits, and for the protection of adjoining property, structures, pits and footings.

C. Keep open excavation free of water, both surface and subterranean by use of pumps and earth damming around such excavations to throw surface water away from the excavation of any structure.

D. Protect open excavation by lighted barricades or railings to prevent injury to personnel.

E. Protect existing utilities, roads, pavement and structures.

3.3 PREPARATION

A. Clearing:

1. Clear areas as specified in Section 31 1000.
2. Remove topsoil to its full depth at construction and within grading limits.
3. Stock topsoil for use in finish grading operation. Do not use for fill.

B. Provide grade stakes; maintain lines and grades. Stakes no more than 25 ft. apart along roadways, and 50 ft. maximum along drives and paved areas.

C. Disk to depth of 6 inches below subgrade and compact to required density prior to proof-rolling.

D. Proofroll stripped subgrade with rubber tired roller or other means approved by Architect.

E. Clean out unsuitable pockets and fill with earth fill, compacted.

F. Disc or blade subgrade until uniform, and compact to specified density.

G. Do not place fill materials until subgrade excavation has been inspected and approved by Soils Engineer and Architect.

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3.4 EXCAVATION

A. Excavate true to line and grade, level at bottom.

B. Excavate to suitable bearing subsoil as determined by Soils Engineer.

C. Excavations shall be to the dimensions indicated plus sufficient space to permit erection of forms, shoring, masonry, and foundations and excavation inspections.

D. Excavation below slabs and paving shall be sufficient to permit placement of subbase materials.

E. Foundations:

1. If suitable bearing is not encountered at the depth indicated on drawings for foundations, immediately notify the Architect.
2. Do not proceed further until instructions are given by the Architect and required tests are completed.
3. Under no conditions are footings to be placed on soft earth or fill.

F. Footing Trenches:

1. Where soil conditions permit, footing trenches may be excavated to the exact dimension of the concrete, and side forms omitted.
2. Place footings and foundations upon undisturbed, firm bottoms.
3. Fill with lean concrete any excess cut under footings and foundations.

G. Provide shoring or piling as required to protect excavation banks.

3.5 ROCK EXCAVATION

A. Definition:

1. Rock is defined as stone or hard shale in original ledge, boulders over 1/2 cu. yard in volume, masonry or concrete that cannot be broken and removed by normal job equipment (power shovel 1/2 yard capacity, scoops, bulldozers), without the use of explosives or drills.
2. This classification does not include material such as loose rock, concrete or other materials that can be removed by means other than drilling and blasting.
3. Boulders shall be removed from excavation and stockpiled for removal from site.

B. Measurement:

1. Rock shall be stripped for measurement before excavating, and no rock excavated or loosened before measurement will be allowed or paid for as rock.
2. Measurement and payment, shall be by the number of cubic yards required to bring excavation to required surface of grade shown on drawings.
3. Owner may adjust grades should excessive rock be encountered.

C. Rock Excavation Space Allowance:

1. 18 inches outside wall lines of building, or outside of concrete work for which forms are required.

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2. 4 inches below and 12 inches each side of underground pipes.
3. Outside dimensions of concrete work for which no forms are required.

D. Payment:

1. No additional compensation will be made for rock removal identified in the Geotechnical Report, using a reasonable straight interpolation of the rock elevation between borings. For purposes of rock removal, "refusal" in the boring logs is assumed to be rock.
2. Geotechnical Report indicates rock will be encountered during construction.
3. Contractor shall include in the Lump Sum Base Bid or applicable Alternate Bids, the cost of rock removal required for completion of this work throughout the entire site, based upon the Geotechnical Report.
4. Bidders may visit the site and make additional underground investigations at their discretion. Coordinate schedule and locations with Architect at least 24 hours in advance.
5. For rock encountered that could not have been reasonably foreseen based upon the Geotechnical Report, do not proceed without written permission from the Architect. If approved, payment will be made upon a unit price basis, or upon a time and material basis, whichever is less.
6. Contractor shall submit timesheets, material records and receipts, and any other supportive data requested by the Architect for determination of final approved price.

E. Explosives:

1. Explosives will not be permitted.

3.6 FILLING AND BACKFILLING

A. Fills shall be formed of satisfactory materials placed in successive horizontal layers of approximately 6 inches in loose depth for the full width of the cross section.

B. Proof roll all areas to receive fill.

C. Where objectionable subgrade material is encountered and removed, fill excavated area to original ground level with suitable fill as specified, and compacted as required before starting filling operation.

D. All material entering the fill shall be free of organic matter such as leaves, grass, roots and other objectionable material.

E. Sprinkling:

1. Use sprinkling wagons, pressure distributors and other approved equipment that will sufficiently distribute the water.
2. Sufficient equipment to furnish the required water shall be available at all times.

F. Take samples at frequent intervals of all fill materials for testing, both before and after placement and compaction. From these tests, corrections, adjustments and modifications of methods, materials and moisture content will be made to construct the fill.

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G. Construction of filled areas:

1. Starting layers shall be placed in the deepest portion of the fill.
2. Each lift shall be disked or treated by some other mechanical means as to insure the breaking up of any existing lumps and clods.
3. As placement progresses, layers shall be constructed approximately parallel to the finished grade line.

H. The Contractor shall be responsible for the stability of fills made under the contract and shall replace any portion which has become displaced due to carelessness or negligence on the part of the Contractor.

I. Heavy equipment for spreading fill shall not be used closer to structures that a distance equal to the height of backfill above top of footing.

J. Backfilling shall not be done until walls are braced or shored.

K. If fill is to be provided on both sides of walls, fill on both sides at same time.

L. Drainage fill under floor slabs on grade shall be placed to indicated depths not less than 4 inches.

M. Fill excess cuts under slabs with drainage fill and thoroughly compact.

N. Dispose of all excess fill offsite.

O. Provide acceptable fill from off site if necessary to meet finish grades indicated, at no additional cost to Owner.

3.7 COMPACTION

A. Fill areas shall be compacted using equipment capable of compacting each lift its full depth. Moisture during compaction operations shall be maintained at optimum content.

B. Compacting equipment shall be approved equipment of such design, weight and quantity to obtain the required density in accordance with soil compaction specification.

C. Add moisture or aerate material as necessary to achieve optimum moisture content.

D. Compaction operations shall be continued until the fill is compacted to not less than the following percent of the maximum dry density as determined in accordance with ASTM D698.

1. 100% in fill areas supporting footings.
2. 95% in non-load bearing areas within building lines.
3. 95% in fill areas under paved areas.
4. 85% in landscaped areas.

E. Any areas inaccessible to a roller shall be consolidated and compacted by mechanical tampers.

F. Operate equipment so that hardpan, cemented gravel, clay, or other chunky soil material will be broken up into small particles and become incorporated with the material in the layer.

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G. Cut areas: Disk to 6 inches below subgrade and compact to 95% of maximum dry density at optimum moisture content as determined by Standard Proctor ASTM D698.

H. Compaction by flooding is not acceptable.

I. Sealing: At end of each work day of filling and compaction operation, roll surface with smooth tired vehicle to leave smooth surfaced sealed to shed all water.

3.8 GRADING

A. Furnish, operate and maintain such equipment as is necessary to control uniform layers, sections and smoothness of grade for maximum compaction and drainage.

B. Rough Grading:

1. Even grade to elevations 6 inches below finish grade topsoil elevations indicated.
2. Protect all constructed items during grading operations, and repair if damaged.
3. All areas in the project including excavated and filled sections and adjacent transition areas shall be reasonably smooth, compacted and free from irregular surface changes.
4. The degree of finish shall be that ordinarily obtainable from either blade-grader or scraper operations, except as otherwise specified.
5. The finished subgrade surface generally shall be not more than 0.10 feet above or below the established grade or approved cross-section, with due allowance for topsoil and sod where required.
6. The tolerance for areas within 120 feet of the buildings shall not exceed 0.10 feet above or below the established subgrade.
7. All ditches, swales and gutters shall be finished to drain readily.
8. Unless otherwise indicated on the drawings, the subgrade shall be evenly sloped to provide drainage away from the building walls in all directions at a grade not less than 1/2 inch per foot.
9. Provide roundings at top and bottom of banks and at other breaks in grade.

C. Protection:

1. Protect newly graded areas from the action of the elements.
2. Any settlement or washing that occur prior to acceptance of the work shall be repaired, and grades re-established to the required elevations and slopes.
3. Fill to required subgrade levels any areas where settlement occurs.

D. Finish Grading:

1. Proceed to finish elevations indicated.
2. Rake subsoil clean of stones and debris. Scarify to depth of 3 inches.
3. Spread stockpile topsoil over prepared subgrade to minimum depth of 6 inches, and rolled until suitable for seeding.
4. Maintain surfaces and replace additional topsoil necessary to repair erosion.

E. Continued Drainage:

1. All subgrade shall be graded to continuously drain during all phases and entire duration of construction and construction activities.

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2. Contractor shall be held responsible for any/all detrimental site, soil and subsurface conditions created or altered as a result of improper drainage of soils and subgrade.

3.9 QUALITY CONTROL

A. Tests of Earthwork for Paved Areas and Slabs on Grade:

1. An average of one test per 6 inch lift of each 5,000 square feet area will be required.
2. The exact number of tests will depend on the weather, and be at the discretion of the Soil Engineer and approved by the Architect.
3. Testing firms shall test and approve all material use in fill operation.
4. Should tests indicate the required density was not attained, Contractor shall remove fill and/or backfill to depths required and as determined by the test and repeat operations until said density is attained.

B. Quality Control of Footings:

1. Footing excavation bases will be inspected by Soils Engineer.
2. If soft pockets are encountered, the undesirable material shall be removed.

C. The Architect upon the recommendation of the Testing Laboratory, will have the power of rejection of materials, equipment or operating procedures which are not suitable to produce the results specified.

D. The Contractor shall cooperate with the Testing Laboratory and shall allow the Soils Engineer ample time to conduct tests. Operation of equipment shall be discontinued when the operation interferes with testing.

PART 4 - SUBMITTAL CHECK LIST

A. Qualifications of Soils Engineer.

B. Test results and reports of Soils Engineer/Testing Laboratory.

END OF SECTION 31 0000

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SECTION 31 1000 - SITE CLEARING

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish labor, materials, equipment, special tools, supervision and services required to clear the site prior to excavation operation.

B. Extent of site clearing is shown on drawings and/or included herein. Includes, but is not limited to:

1. General requirements and preparation.
2. Clearing and grubbing.
3. Temporary erosion and sedimentary control measures.
4. Topsoil stripping and stockpiling.
5. Tree removal and protection.

PART 2 - PRODUCTS

2.1 EQUIPMENT

A. Equipment used for clearing and grubbing operation shall be the contractor's option.

2.2 SOIL MATERIALS

A. Obtain all borrow materials from off-site when unsatisfactory quality or insufficient quantity of soil materials are not available on-site.

PART 3 - EXECUTION

3.1 GENERAL

A. All debris will be removed from the Owner’s property immediately. Burning on the site will be not be permitted. Care shall be taken to keep the nuisance of trash, noise and dust at a minimum.

B. Protect existing site improvements to remain from damage during construction activities.

C. Damage inflicted to any/all areas which are not to receive work, shall be repaired, or replaced by the Contractor as required by the Owner and Architect/Engineer.

D. Do not close or obstruct streets, sidewalks, drives, or other adjacent occupied facilities without permission and approval of the Owner, Architect/Engineer, and Legal Authorities. Do not allow parking or storage of equipment or materials in existing parking areas. Provide alternates routes around closed or obstructed traffic ways, as approved by the Owner, Architect/Engineer, and Legal Authorities.

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E. When trees are shown to be removed, it shall mean grub out stumps and remove from property. Trees to be removed are indicated on the Drawings.

3.2 PREPARATION

A. Protect and maintain benchmarks and survey control points from disturbance during construction.

B. Notify utility locator service for the area of the project before commencing any site clearing work. Arrange with utilities for proper shut-off of any utility operations and services as required.

C. Do not commence any site clearing work until temporary erosion and sedimentary controls measures are in place.

D. Locate and clearly mark all trees and vegetation which is to remain, be relocated, or removed.

3.3 CLEARING AND GRUBBING

A. Clear the project sites of cinders, fill debris, concrete slabs, curbs, and retaining walls, bituminous and aggregate pavements, compacted aggregate bases, sidewalks, curbs, drainage structures and utility distribution system as required or indicated on the Drawings, including those shown on Mechanical and Electrical Drawings.

B. Clearing shall consist of the removal and disposal of all encumbrance to a depth of at least twenty-four inches below finished earthwork grades or pavement subgrades, whichever is used in the area under construction.

C. No foundation walls, footings, walks or slabs remaining from any former construction are to be used for new construction. Remove all existing walks, slabs, walls, footing, foundations, and other construction encountered within the property lines to their full depth.

D. Grubbing shall consist of the removal of sod, trees, weeds and other vegetation, stones and rocks within various work areas.

E. Rubbish deposits, if encountered, shall be removed to their full depth under areas that are to be paved or have structures on them. Replace deposits with concrete, No. 73B crushed stone or earth borrow compacted as specified in other sections of the Specifications.

F. Fill depressions caused by clearing and grubbing activities with satisfactory soil material unless further excavation or earthwork is indicated.

3.4 TEMPORARY EROSION AND SEDIMENTARY CONTROL MEASURES

A. Provide temporary erosion and sedimentary control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, in accordance with the agencies and authorities having jurisdiction.

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B. Inspect, repair, and maintain erosion and sedimentary control measures during construction until permanent vegetation has been properly established.

C. Remove erosion and sedimentary control measures and restore and stabilize areas disturbed during removal.

3.5 TOPSOIL STRIPPING AND STOCKPILING

A. Areas to be stripped shall first be scraped clean of all brush, weeds, sod, grass, roots, and other materials that will interfere with lawn maintenance, prior to stripping of topsoil.

B. Topsoil shall be kept reasonably free from subsoil, debris and stones larger than 2 inches in diameter.

C. Remove topsoil, to its entire depth, from the areas within lines 4 feet outside of foundation walls of buildings, from areas to be occupied by roads and asphalt paving areas. Areas to be regraded or subject to compaction by construction traffic shall have topsoil removed to a depth of 6 inches.

D. Stored topsoil shall be stockpiled on-site to be used for finished grading. Locate stockpiled topsoil in designated or approved locations where it will not interfere with building or utility operations.

E. Cover stockpiled topsoil to prevent windblown dust. Temporarily seed as required for erosion and sedimentary control.

3.6 TREE REMOVAL

A. Remove all trees and stumps from area to be occupied by new buildings, roads, and surfaced areas. Removal of trees outside these areas shall only be done as noted on drawings and approved by the Architect.

B. All brush, stumps, wood and other refuse from the trees shall be removed by digging, including the roots.

3.7 TREE PROTECTION

A. The contractor shall be responsible for the protection of tops, trunks and roots of existing trees on project site that are to remain.

B. Existing trees subject to construction damage shall be fenced to the limits of their branch spread or otherwise protected before any work is started; remove fencing when complete. Remove interfering branches without injury to trunks and cover scars with tree paint. Do not permit heavy equipment or stockpiles within branch spread.

C. In general, do not excavate within the tree protection zone or within the branch spread of trees. Where excavating, fill or grading is required within the branch spread of trees that are to remain, the work shall be performed as follows:

1. Trenching: When trenching occurs around trees to remain, the tree roots shall be tunneled under or around the roots by careful hand digging and without injury to the roots.

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SECTION 31 2500 - EROSION CONTROL

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish and install erosion control materials and procedures as indicated on the Drawings and specified herein.

B. Maintain the erosion control systems and procedures throughout the project, including corrections of any and all measures following rain, storms or other inclement weather.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Quick Growing Grasses:

1. Wheat, rye or oats.
2. Integrally seeded stabilization mats.

B. Straw Bales:

1. Free of weed seed.
2. 2 inch x 2 inch x 48 inch wood stakes.

C. Silt Fence:

1. Geotextile fabric and staking system.

D. Rock Check Dam:

1. Crushed limestone.

E. Engineered Fill:

1. Cohesive and stable earth as described above, suitable for bearing.

F. Temporary Mulch:

1. Loose straw crimped into soil.

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PART 3 - EXECUTION

3.1 INSPECTION

A. Thoroughly review existing site conditions prior to bidding or starting earthwork.

B. Review conditions of property adjacent to the site. Do not alter storm drainage, access, utilities etc. to the adjacent property without prior approval of Architect and Owner.

3.2 IMPLEMENTATION

A. Maintain excavation banks and pit walls in a safe and stable condition.

B. Maintain temporary erosion control systems installed to control siltation at all times throughout the work. Provide maintenance or additional work within 48 hours of notification by local IDNR official.

C. Install permanent erosion control measures as soon as possible.

D. Protect open excavation by lighted barricades or railings to prevent injury to personnel.

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SECTION 31 3116 - TERMITE CONTROL

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish labor, materials, equipment, special tools, supervision and services required to provide termite treatment as specified herein.

1.2 QUALITY ASSURANCE

A. Applicators Qualifications:

1. Performed by applicator licensed in the State of application.
2. Minimum three (3) year's experience.

1.3 SUBMITTALS

A. Manufacturer's Literature.

1. Published data on product solution composition and use.
2. Mixing and application instructions.
3. Material Safety and Data Sheets (MSDS).

B. Written warranty and guarantee.

1.4 WARRANTY

A. Provide written warranty and insured guarantee.

B. Effectiveness of treatment guaranteed for not less than five (5) years.

C. If any termite activity is discovered within the warranty period, the Contractor shall re-treat structure and repair or replace all areas of damage caused, without any expense to the Owner.

D. Guarantee to prevent and control infestations by subterranean termite species of genera:

1. Coptotermes.
2. Heterotermes.
3. Reticulitermes.
4. Zootermopsis.

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PART 2 - PRODUCTS

2.1 MATERIALS

A. Provide one of the following approved products:

1. “FMC Corporation”; Prevail FT.
2. “FMC Corporation”; Talstar P.
3. “FMC Corporation”; Baseline Pretreat Termiticide.
4. “Masterline”; Bifenthrin 7.9.
5. “Nisus Corporation”; Bora-Care.

B. Description:

1. Termiticide, insecticide, fungicide.
2. Water-based or borate-based chemical emulsion.
3. Safe for use on wood, concrete, plastics, metals, flashings, rigid insulations, and earth.
4. Shall provide a continuous barrier that termites cannot cross and eliminate wood as a food source.

PART 3 - EXECUTION

3.1 3.01 APPLICATION

A. Areas of Treatment:

1. Treat entire under-slab area of new construction areas a minimum of two inches beyond the exterior building line.
2. Treat entire interior surface of all foundation walls, grade beams, crawlspaces and basement walls of new construction.
3. Treat all pipe, conduit and plumbing penetrations through the exterior walls at new construction.
4. Treat all pipe, conduit and plumbing penetrations through the floor slab at new construction.

B. Rate of Application:

1. Apply treatment in strict accordance with the manufacturer’s published rates of application.
2. Vary rates of application at each condition of use as per the manufacturer.

PART 4 - SUBMITTAL CHECK LIST

A. Manufacturer’s Literature.

B. Written warranty and guarantee.

END OF SECTION 31 3116

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SECTION 32 1216 - ASPHALT CONCRETE PAVING

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish labor, materials, equipment, special tools, supervision and services required to complete the asphalt concrete paving work indicated, noted, and detailed on the drawings and specified herein.

1.2 QUALITY ASSURANCE

A. Provide final surface of uniform texture conforming to required grades and cross sections.

B. Surface smoothness, when tested with 10 ft. Straight-edge:

1. Base: 1/4 inch in 10 ft. maximum.
2. Binder Course: 1/4 inch in 10 ft. maximum.
3. Surface Course: 1/8 inch in 10 ft. maximum.

1.3 REFERENCES

A. Publications of the following institutes, associations, societies, and agencies are referred to this Section.

1. Indiana Department of Highways, Standards Specifications, Latest Edition, IDH.
2. American Society for Testing and Materials, ASTM.

1.4 SUBMITTALS

A. Prior to starting any asphalt concrete paving work, prepare a preliminary Job-Mix formula for all asphalt paving to be used in this project.

1. Submit preliminary Job-Mix formula to the Architect for review a minimum of 15 days before asphalt concrete paving is required.

1.5 SITE CONDITIONS

A. Ambient Air Temperature (Degrees Fahrenheit).

1. Base/Binder Course - 35°F minimum.
2. Surface Course - 45°F minimum.
3. Marking Paint - 40°F - 95°F.

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B. No binder course or surface course shall be applied to wet surfaces. Do not apply asphalt materials if subgrade is wet or excessively damp, if rain is imminent or expected before time required for adequate cure.

C. Lane marking paint shall only be applied to clean, dry surfaces.

D. Surface course shall NOT be applied after October 15 or before May 1.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General:

1. Use locally available materials and gradations which exhibit a satisfactory record of previous installations.

B. Dense Graded Aggregate (DGA):

1. Graded aggregate and water mixed.
2. Meet requirements of IDH Standard Specification, Section 303.

C. Course Aggregate:

1. Sound, angular crushed stone, crushed gravel, or cured crushed blast-furnace slag.
2. ASTM D692.
3. Meet requirements of IDH Standard Specification, Section 903.02.

D. Fine Aggregate:

1. Sharp-edged natural sand or sand prepared from stone, gravel, cured blast-furnace slag, or combinations thereof.
2. ASTM D1073.
3. Meet requirement of IDH Standard Specification; Section 903.01.

E. Asphalt Cement:

1. Prepared by the refining of petroleum.
2. Viscosity grade: PG 64-22.
3. AASHTO M 320 or AASHTO MP 1a.
4. Meet requirements of IDH Standard Specification, Section 902.01.

F. Lane Marking Paint:

1. Equal to:
   a. "MPI"; #32 Alkyd Traffic Marking Paint.
   b. "MPI"; #97 Latex Traffic Marking Paint (only where alkyd paints are not permitted).

2. Factory Mixed, quick drying and non-bleeding alkyd oil based paint.

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3. FS TT-P-115, Type III.
4. Color:
   a. White (typical striping locations).
   b. Yellow (where indicated on Drawings).
   c. ADA blue at all handicap spaces and access aisles.

2.2 TABLE OF COMPOSITION LIMITS

Sieve Size	Metric Size	Percent Passing by Weight	
		Binder	Surface
1 inch	25.0 mm	100	100
3/4 inch	19.0 mm	90 - 95	100
1/2 inch	12.5 mm	70 - 92	100
3/8 inch	9.50 mm	50 - 76	85 - 95
No. 4	4.75 mm	35 - 40	55 - 70
No. 8	2.36 mm	18 - 45	30 - 65
No. 16	1.18 mm	10 - 36	15 - 50
No. 30	600 µm	6 - 26	8 - 40
No. 50	300 µm	2 - 18	3 - 25
No. 100	150 µm	0 - 11	0 - 15
No. 200	75 µm	0 - 5	0 - 4
Asphalt Content		4.0 - 6.0 4.5 - 6.5	
Course Aggregate Size		No. 8 & 11	No. 11
Fine Aggregate		L.S. Sand	Sand

PART 3 - EXECUTION

3.1 GENERAL

A. Subgrade shall be proof-rolled using pneumatic tired roller capable of exerting minimum 90 psi pressure uniformly over the subgrade surface.

   1. Proof-rolling shall provide two complete coverages.
   2. Remove and replace soft spots with stable material, compact and re-proof.
   3. Do not proof-roll wet or saturated surfaces.

B. Proceed with paving only after all unsatisfactory subsurface conditions have been corrected.

C. All materials shall be spread using approved spreading equipment. Tailgating of aggregates directly onto subgrades will not be acceptable.

   1. Asphalt pavers shall be self-propelled with receiving hopper of sufficient capacity to provide a uniform spreading operation.
   2. Rollers shall be steel wheeled weighing 10 ton or three wheeled rollers with bearing of 300 pounds per linear inch width of rear wheels.

D. Contractor shall have on hand at the site prior to paving operation all necessary portable and hand tools and one stand-by roller.

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3.2 COMPACTION

A. Subgrade and compacted base courses shall be compacted to 95% of maximum dry density in accordance with ASTM D698.

1. Each lift of aggregate base shall be compacted to density specified above.
2. Soft spots found during proof-rolling which are replaced with fill material shall be compacted to density specified above.

3.3 SURFACE PREPARATION

A. Remove loose material from base surface immediately before applying prime coat.

3.4 SPREADING AND ROLLING

A. Base Course, Compacted Stone Aggregates, and DGA:

1. Spread and compact in separate lifts, maximum 4 inches each, see details for depths.
2. Extend lower lift 4 inches beyond next lift.

B. Binder Course:

1. Spread and roll to minimum finish depths indicated on details.
2. Spread mixture at minimum temperature of 250°F.

C. Surface Course:

1. Spread and roll to minimum finish depths indicated on details. If not indicated, provide a minimum of 1-1/2” depth.
2. Finish installation shall be true to line and grade and within 1/2 inches of true elevation.

3.5 STRIPING PAINT

A. Cleaning: Sweep and clean surface to eliminate loose materials and dust.

B. Striping: Use alkyd-oil traffic lane-marking paint, factory-mixed, quick-drying, and non-bleeding.

C. Apply paint with mechanical equipment to produce uniform straight edges. Apply in 2 coats at manufacturer’s recommended rates to form 4 inches minimum width lines.

D. Handicap parking spaces shall be white symbol on an ADA Blue background.

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3.6 DENSITY TESTS

A. Tests shall be made by a soils engineer approved by the Architect.

1. A total of at least four (4) tests will be required at various times and locations for subgrade and base course for paved areas.
2. Provide results of each test to the Architect within 72 hours after tests are made.
3. Include cost of tests as outlined above in the contract amount.

PART 4 - SUBMITTAL CHECK LIST

A. Asphalt Paving Mix Formula.

B. Density Test Results.

END OF SECTION 32 1216

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SECTION 32 1600 - CONCRETE PAVING AND CURBS

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish labor, material, equipment, special tools, supervision and services required to deliver and place all cast-in-place site concrete indicated, noted and detailed on the drawings and specified herein.

B. Types of work in this section includes, but not limited to the following:

1. Concrete drives and aprons.
2. Concrete walks.
3. Concrete curbs, slip form machine or rigid form types.
4. Reinforcing steel, anchor bolts, forms and form removal.

1.2 QUALITY ASSURANCE

A. Comply with the following standards:

1. ACI Standards (latest editions) for construction procedures. Including but not limited to:
   a. Specifications for Structural Concrete for Buildings (ACI-301).
   b. Recommended Practice for Hot Weather Concreting (ACI-305).
   c. Recommended Practice for Winter Concreting (ACI-306).
   d. Building Code Requirements for Reinforced Concrete (ACI-318-89).
   e. Recommended practice for Field Evaluation of Compressive Test Results of Field Concrete (ACI-214).

2. ASTM Standards (latest editions) for material specifications.

B. Testing:

1. Pay costs of independent testing agency approved by Architect/Engineer, tests and necessary re-testing and re-inspection.
2. Perform following tests, by certified concrete field technician.
   a. Slump tests: ASTM C 143.
   b. Compression tests: ASTM C 31 and C 39.
   c. Air entrainment: ASTM C 138 or C 231.

3. Concrete Field Tests:
   a. Five (5) 6 inch by 12 inch concrete cylinders shall be molded for each 50 cubic yards or each day's pour if less than 50 yards.
   b. Cylinders shall remain undisturbed in a secure location on the site for 24 hours after which they shall be removed to the testing lab by laboratory personnel.
   c. Two of the cylinders shall be tested at 7 days and two at 28 days.
   d. Failure to the concrete to meet the specification requirements may result in its complete removal and replacement at the Contractor's expense.

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e. Cost of re-test, if any, will be at the Contractor's expense.

C. Allowable tolerances:

1. Formed surfaces: Table 4.3.1, ACI 301.
2. Slabs finished level: ± 1/4" of floor elevation.
3. Class A finishes: True planes ± 1/8" in ten feet for troweled slabs.

1.3 DELIVERY, STORAGE AND HANDLING

A. Store materials to prevent contamination, deterioration, and weather damage.

B. Deliver ready-mixed concrete to point destination in conformance to ASTM C94.

1.4 ENVIRONMENTAL REQUIREMENTS

A. Cold Weather:

1. Comply with ACI 306 when temperature is 40°F or lower.
2. Maximum concrete temperature 90°F, minimum 50°F per ASTM C94.

B. Hot Weather:

1. Comply with ACI 305.
2. Maximum concrete temperature 90°F.
3. Protect from rapid evaporation by spraying or sheeting.

1.5 SUBMITTALS

A. Reinforcing Steel Shop Drawings:

1. Indicate all reinforcing steel sizes, locations, support locations/details, lengths laps and bend details.
2. Indicate all reinforcing strengths and quantities.

B. Concrete Mix Design:

1. A separate mix design for each class and type of concrete is required.
   a. Include literature for admixtures.
   b. Include applicable compliance with referenced ASTM number.

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PART 2 - PRODUCTS

2.1 MATERIALS

A. Portland Cement:

1. ASTM C150-71, Type I or II.

B. Air Entraining Cement:

1. ASTM C150, Type IA or IIIA.

C. Aggregates:

1. ASTM C33.
2. Coarse Aggregates:
   a. Clean, tough, durable fragments of uncrushed gravel or crushed stone free from dirt or objectionable matter.
   b. Size: Maximum 1-1/2" at footings; 1" in slabs.

3. Fine aggregate: Natural sand; clean, sound, hard, durable particles; gradation size No. 1.

D. Water:

1. Clean, free from injurious amounts of oil, acids, alkalies, organic matter or deleterious substances, potable.

E. Admixtures:

1. Air Entraining Agent: Neutralized vinsol resin solution, conforming to ASTM C260.
2. Water Reducing Agent: ASTM C 494, Types as required to provide controlled setting and/or controlled rate of hardening without increase in water/cement ratio or loss in strength.
3. Pozzolan: ASTM C618.
4. Accelerators and retarders: ASTM C 494; permitted only upon approval of Architect/Engineer.
5. Do not use calcium chloride without permission of Architect.

F. Curing Material:

1. Liquid Membrane: ASTM C 309.
2. Acrylic copolymer solution, transparent, quick drying, non-yellowing.
3. Compatible with flooring adhesives.
4. "Kure-N-Seal" by Sonneborn or equivalent.

G. Reinforcement:

1. Bars: ASTM A 615 Grade 60.
2. Welded Wire Fabric: ASTM A 185, 6 x 6 W1.4 x W1.4, or as indicated.
3. Reinforcing fibers will be allowed for use in exterior walks in lieu of welded wire fabric.

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H. Expansion Joint filler:

1. Closed cell polyethylene or polyurethane foam.
2. "Sonocrete" by Sonneborn or equivalent.

I. Metal Accessories:

1. Spacers, chairs, ties and other devices necessary for properly assembling, placing, spacing and supporting reinforcing.
2. Minimum 3/4" cover for all metal accessories.

J. Non-Shrink Grout:

1. Pre-mixed, factory packaged, non-staining, non-metallic, non-gassing mortar compound.
2. ASTM C 827, C 191 and C 109.

K. Vertical Joint Sealants:

1. Multi-Component Polyurethane Sealant: Provide manufacturer's standard, non-modified, 2-or-more-part, polyurethane-base, elastomeric sealant; complying with ASTM C920 Type M Class 25, nonsag grade/type.
2. “Sonneborn”, "SONOLASTIC NP II"

L. Horizontal Joint Sealants:

1. Self-leveling grade/type, provide sealant with cured modulus of elasticity at 100% elongation of not more than 150 psi (ASTM D 412 test procedure), and Shore A hardness of not less than 55 (ASTM D 2240). Where nonsag grade/type is required, provide sealant with cured modulus of elasticity at 100% elongation of not more than 75 psi and Shore A hardness of 20 to 30.
2. “Sonneborn”, "SONOLASTIC PAVING JOINT SEALANT"

2.2 MIX DESIGNS

A. Design mix with appropriate adjustments for air content and aggregate proportions.

B. Air Entrainment for concrete exposed to weather: air content controlled between 4 and 6% by volume.

C. Compressive strength at 28 days: 3500 psi.

D. Slump: 3 in. +/- 1 in.

2.3 MIXING

A. Measure and mix materials for ready mixed concrete in conformance with ASTM C94.

B. Take into account free moisture in the aggregate weight.

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2.4 FORMWORK

A. Provide formwork to conform to shape, lines and dimensions of members indicated on Drawings.

B. Construct formwork sufficiently tight to prevent leakage.

C. Construct formwork for exposed smooth surfaces of plywood or other similar smooth material.

D. Bevel exposed concrete corners 3/4" unless otherwise indicated on drawings.

E. Form coatings:

1. Non-staining.
2. Apply before reinforcing steel is placed.

F. Tolerances: ACI 347.

PART 3 - EXECUTION

3.1 PREPARATION

A. Ensure slab subgrade is well drained, of adequate, uniform load bearing nature, and not muddy, soft or frozen.

B. Extend the compacted stone base of the adjacent pavement section beneath the curb and/or gutter for the full width of their construction and profile, whether indicated or not on the Drawings.

C. Dampen subgrade ahead of concreting.

D. Test Below-slab pipes prior to casting concrete.

E. Verify reinforcement and anchors, expansion joint material and embedded items are secured in position.

F. All construction joints shall be keyed vertical bulkheads. No horizontal joints shall be allowed. All reinforcing shall continue through joint.

G. The Architect or his representative shall be given 24 hours notice to inspect placement of reinforcing steel before concrete is placed.

3.2 PLACING

A. Convey concrete from mixer to form as rapidly as practicable, by methods which will prevent segregation or loss of materials.

B. Vertical drops: maximum three feet free fall.

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C. Place concrete as nearly as possible to its final position at a rate so it remains plastic and flows readily into position. Proceed with placing as a continuous operation until unit of construction is complete. Use vertical construction joints to avoid horizontal joints between concrete placement.

D. Do not use retempered concrete or concrete partially hardened or contaminated with foreign material.

E. Ensure forms and conveyance equipment is clean and free of ice, water, debris and hardened concrete.

3.3 FINISHING: CONCRETE FINISH SCHEDULE

A. Stoops: Broom finish.

B. Walks: Broom finish. (Hard trowel smooth at expansion and control joints).

C. Steps: Vertical surfaces rubbed; horizontal surfaces broom finish.

D. Retaining Walls: Rubbed.

3.4 CURING

A. Formwork shall remain in place five (5) days before being removed. Remove all formwork in such a manner and at such time as to not damage concrete surfaces and to ensure complete safety to the structure.

B. Slabs and other horizontal surfaces shall be moist cured for seven days or have a curing compound applied immediately following completion of finishing after water sheen has disappeared.

C. Moist curing shall be performed by application of polyethylene sheeting per ASTM C171 or continuous wetting of burlap or other type of absorptive mat.

D. Curing Compounds:

1. Spray or brush uniformly in a single coat immediately after final finishing operation, at rate recommended by manufacturer.
2. Do not use material which discolors concrete

E. Meet requirements of hot and cold weather concreting.

3.5 PROTECTION

A. Protect fresh concrete from heavy rains, extreme air temperatures, injurious sun, mechanical injury and other deleterious elements.

B. If scaling occurs from failure to take protective precautions, repair or replace damaged concrete.

3.6 PATCHING

A. Do not patch any surface until examination is made by the Architect and permission is given.

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3.7 BUILT-IN WORK

A. Coordinate all openings and chases required in the concrete work and provide all items to be cast into the concrete pour.

3.8 JOINTS

A. Locate and construct all joints as shown on the Drawings, or if not shown, as specified herein, or if not specified, as directed by Architect.

B. Construction Joints.

1. May be substituted for control or contraction joints in slabs on grade at the indicated locations of such joints or as approved by the Architect.
2. Provide keyed joints between all cast sections of slabs on grade.

C. Control Joints:

1. Depth: Minimum 1” deep using early entry dry cut saws.
2. Width: Maximum 3/16".
3. 10 feet on center maximum, each way, or as shown on drawings.
4. Walks: as indicated on drawings, or if not indicated, at 4 feet on center or the width of the walk whichever is less.
5. Walls: Size and location as shown on Drawings or 25 feet o.c. each way, whichever is less.
6. Saw cut joints are not acceptable unless authorized in writing by Architect.
7. Wet cut joints within 24 hours of placing.

D. Expansion Joints:

1. Install 1/2" expansion joint filler at concrete pavement joints; hold down below surface or cut the required depth for sealant.

E. Carry reinforcement across joints in slabs except at expansion joints.

PART 4 - SUBMITTAL CHECK LIST

A. Concrete Mix Design.

B. Reinforcement Steel Shop Drawings.

END OF SECTION 32 1600

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SECTION 32 1713 – PARKING STOPS

PART 1 - GENERAL

1.1 DESCRIPTION

A. Furnishing and installing precast concrete parking stops where indicated.

1.2 SUBMITTALS

A. Product Data:

1. Submit manufacturer's published literature describing products.
2. Submit manufacturer's installation procedures.

PART 2 - PRODUCTS

2.1 PRECAST PARKING STOPS

A. Premanufactured units: 72" long x 7.5" wide x 5 " high.

B. Mounting Hardware:

1. Steel spike at asphalt pavement.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install with anchor system per manufacturer instructions.

PART 4 - SUBMITTAL CHECK LIST

A. Product Data.

END OF SECTION 32 1713

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SECTION 32 3111 - ELECTRIC GATE OPERATORS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Electric Gate Operators:

1. Commercial High Traffic DC Slide Gate Operator with battery back up.

B. Safety Features:

1. Provide all safety features to meet UL 325 requirements.

1.2 REFERENCES

A. National Electrical Manufacturers Association (NEMA): NEMA ICS 6 - Industrial Control and Systems: Enclosures.

B. Underwriters Laboratories (UL): UL 325 - Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems.

C. Underwriters Laboratories (UL): UL 991 - Standard for Tests for Safety-Related Controls Employing Solid-State Devices.

D. International Organization for Standardization: ISO 9001 - Quality Management Systems.

1.3 SUBMITTALS

A. Submit under provisions of Section 01 3300.

B. Product Data: Equipment list, system description, electrical wiring diagrams for installation, and manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

C. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, edge conditions, and accessories.

1. Operation, installation, and maintenance manuals including wiring diagrams.
2. Risers, layouts, and special wiring diagrams showing any changes to standard drawings.

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1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle materials and products in strict compliance with manufacturer's instructions and industry standards.

B. Store products indoors in manufacturer's original containers and packaging, with labels clearly identifying product name and manufacturer. Protect from damage.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: ISO 9001 Certified Manufacturer.

B. Installer Qualifications: Installation performed by factory authorized contractor specifically trained in gate operation systems of the type found within this section.

1. Provide documentation of maintenance and repair service availability for emergency conditions.
2. Provide quarterly maintenance for one year following Substantial Completion of the Project.

1.6 WARRANTY

A. Manufacturer's Standard Limited Warranty:

1. Warranty Period: 5 years for commercial applications.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: LiftMaster; 300 Windsor Drive; Oak Brook, IL 60523. ASD. Toll Free: 800.282.6225. Email: specs@LiftMaster.com. Web: LiftMaster.com.

B. Alternative Manufacturer/Products: Requests for substitutions will be considered in accordance with provisions of Section 01 6200.

2.2 GATE OPERATORS

A. Gate Operators: LiftMaster CSL24UL Commercial High Traffic DC Slide Gate Operator.

1. LiftMaster CSL24UL Slide Gate Operator.
2. Compliance: UL Listed. Compliant to the UL 325, UL 991 and CSA C22.2 No. 247 standards.
   a. This model is intended for use in Class I, II, III and IV vehicular slide gate applications.

3. Monitored Safety Inputs: 3 inputs per board (main board and expansion board) totaling 6 inputs with any combination of up to:
   a. Main Board:

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1) 1 Monitored Close Photo Eye input
2) 1 Monitored Open Photo Eye input
3) 1 Monitored Open Safety Edge or Open Photo Eye input

b. Expansion Board
1) 2 Monitored Safety Edge or Photo Eye inputs (selectable for Open or Close).
2) 1 Monitored Photo Eye input (selectable for Open or Close).

c. 8 Monitored edges available when Transceiver is added.

4. Electrical Power Requirements:
a. 115V AC, single phase or 230V AC, single phase, as indicated on the Drawings.

5. Motor: 24V DC, with soft start/stop operation.
a. Duty cycle: Continuous duty.

6. Capacity: 50-foot (15200 mm) gate at 1,500 pounds (680 kg).
7. Recommended Cycles per Day: Continuous duty.
8. Gate Travel Speed: 12 inches (304 mm) per second.
9. Warranty: 5 years for commercial applications, 7 years for single-home applications.
10. Wormgear Reduction: Commercial oil bath gearbox with 10:1 wormgear reduction running in synthetic oil bath.
11. Battery Backup: Power Management system draws 14.8 mA when gate is idle with remote controls programmed. Provides 208 cycles on Battery Backup with two 7 Ah batteries or 1179 cycles with two 33 Ah batteries.
12. Standby Time: Provides up to 24 days of standby power in the event of a power loss with two 7 Ah batteries or 105 days with two 33 Ah batteries (excluding accessories).
13. Solar Capable: See daily solar cycle chart.
14. Accessory Electrical Power Requirements: 24V DC 500 mA output, switched and unswitched power.
15. Chassis: Constructed with 1/4 inch (6mm) gold zinc-plated steel for rust prevention.
16. Cover: High-density, UV-resistant polycarbonate two-piece cover.
17. Inherent Reversing Sensor: Detects obstructions or increased loads. Reverses gate when closing or stops/reverses the gate when opening.
18. Electronic Limits: Maintains accurate limit position throughout travel, even after using the manual disconnect.
19. PosiLock: Automatically powers the operator and returns a gate to the closed position when gate is pushed off of its closed limits.
20. LED Diagnostic Display: Simplifies installation and troubleshooting.
21. Colored Terminal Blocks: Provides easy identification of safety and fire department inputs.
22. Programmable Auxiliary Relays: 2 programmable relays with 6 settings each
a. Pre-warning or gate-in-motion sounder.
b. Switch on/off devices at open or Close Limits or while gate is in motion.
c. Tamper detection if gate is pushed off Close Limit.
d. Cycle quantity feedback.
e. Red/Green light to control gate traffic.

23. Quick Close, Anti-Tailgate: Quickly secures property, preventing unauthorized access.
24. Sequenced Access Management: Capable of sequentially controlling the operator in tandem with barrier gate.
25. Plug-in Loop Detector Inputs: Programmed inputs for shadow, interrupt and exit.
26. Alarm Reset Button: Instantly resets the built-in safety alarm siren.

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27. Fire Department Compliant: Selectable settings allow gate to auto open on power failure or battery depletion.
28. Surge Suppression: Industrial strength on high and low voltage outputs. Protects against lightning strikes at a 50-foot (15240 mm) radius.
29. Keyed Manual Disconnect: Simple-to-use disconnect allows gate to be operated manually and maintain limit position once re-engaged.
30. Operating Temperature Range:
    a. Without Heater: -4 degrees F (-20 degrees C) to 140 degrees F (60 degrees C)
    b. With Optional Heater: -40 degrees F (-40 degrees C) to 140 degrees F (60 degrees C)

31. Accessories: Safety Monitoring Devices:
    a. Monitored Photo Eyes and Wireless Edge Kits.
        1) LiftMaster LMRRUL Reflective Photo Eyes.
        2) LiftMaster LMWEKITU Wireless Edge Kith with Transmitter and Receiver.
           LiftMaster LMWETXU Wireless Edge Transceiver

32. Accessories: Provide the optional accessories listed below.
    a. LiftMaster LOOPDETLM Plug-in Loop Detector – to allow free exit from within enclosure.
    b. Provide relays, contacts, or other components as required to allow operator to be controlled by Owner's access control system.

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

A. Inspect and prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions.

B. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.

C. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions. Test for proper operation and adjust until satisfactory results are obtained.

B. Operator to be controlled by access control system on site complex. Coordinate installation as required with Owner's separate vendor.

3.3 PROTECTION

A. Protect installed products until completion of project.

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B. Touch-up, repair or replace damaged products before Substantial Completion.

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SECTION 32 3113 - CHAIN LINK FENCES

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish labor, materials, equipment, special tools, supervision and services required to furnish and install a complete chain link fence system as indicated, noted and detailed on the drawings and specified herein.

1.2 SUBMITTALS

A. Product Data:

1. Submit manufacturer's published literature describing products.
2. Submit manufacturer's installation procedures.

B. Shop Drawings:

1. Include details, dimensions, fence heights, post and rail sizes and spacing, footings, connections and accessories.

1.3 WARRANTY

A. Provide manufacturer's 25 year warranty for all galvanized framework and fabric components against failure due to rust and corrosion.

Provide manufacturer's 15 year warranty for all PVC polymer coated framework and vinyl coated fabric components against failure due to rust and corrosion.

PART 2 - PRODUCTS

2.1 FRAMEWORK (HIGH-YIELD STRENGTH)

A. All Framing; Posts, Rails, Braces, and Fittings (unless otherwise indicated):

1. Basis of Specification:
   a. "Merchants Metals", Heavy Mil LG-40 (for up to 4" diameter posts).
   b. "Merchants Metals", Heavy Mil Schedule 40 (for 6" and 8" diameter posts).
2. High yield strength cold formed steel pipe, 50,000 psi (yield strength). Conforming to ASTM F1043, Group I-A and I-C, Heavy Industrial Fence.
3. Finish (Where fence fabric is specified to be Vinyl Coated):
   a. All framing, posts, rails, braces, and fittings to match fence fabric finish.

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b. Exterior coating consisting of total submersion of hot dipped galvanized metallic zinc coating, plus total submersion of minimum 10 mil PVC polymer coating. Conforming to ASTM F1043 and ASTM A90/A90M.

4. Wall Thicknesses (Heavy Mil LG-40):
   a. 1-5/8" = .111".
   b. 2" = .120".
   c. 2-1/2" = .130".
   d. 3" = .160".
   e. 3-1/2" = .160".
   f. 4" = .160".

5. Wall Thicknesses (Heavy Mil Schedule 40):
   a. 6" (6-5/8" nom.) = .280"
   b. 8" (8-5/8" nom.) = .322"

B. Corner Posts, End Posts (Terminal Posts):

1. Fencing up to 6 feet high: Nominal 2-1/2", 2.375" O.D.
2. Fencing over 6 to 8 feet high: Nominal 3", 2.875" O.D.
3. Fencing over 8 to 12 feet high: Nominal 3", 2.875" O.D.
4. Fencing over 12 to 16 feet high: Nominal 3-1/2", 3.500" O.D.
5. Fencing over 16 to 20 feet high: Nominal 4", 4.000" O.D.

C. Intermediate Posts (Line Posts):

1. Fencing up to 6 feet high: Nominal 2", 1.900" O.D.
2. Fencing over 6 to 8 feet high: Nominal 2-1/2", 2.375" O.D.
3. Fencing over 8 to 12 feet high: Nominal 3", 2.875" O.D.
4. Fencing over 12 to 16 feet high: Nominal 3-1/2", 3.500" O.D.
5. Fencing over 16 to 20 feet high: Nominal 4", 4.000" O.D.

D. Top Rails, Bottom Rails, Intermediate Rails and Braces:

1. Nominal 1-5/8", 1.660" O.D.

E. Tension Bars:

1. 3/16" x 3/4" hot-dipped galvanized steel.
2. Bar finish to match fence posts.

F. Gate Posts:

1. Gate leaf up to 4 feet wide: Nominal 3", 2.875" O.D.
2. Gates leaf 4 to 12 feet wide: Nominal 4", 4.000" O.D.
3. Post finish to match fence posts.

G. Gate Frames:

1. Nominal 2", 1.900" O.D. steel tubing frame.

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2. Nominal 1-5/8", 1.660" O.D. internal bracing.
3. All joints welded.
4. Post finish to match fence posts.
5. Fabric and fabric finish to match fence fabric.

H. Cantilevered Sliding Gates:

1. Construct to conform to ASTM F1184 Type II, Class 1 – External Roller Design.
2. Top and bottom horizontal rails: Nominal 2-1/2", 2.375" O.D.
3. Vertical braces: Nominal 2", 1.900" O.D.
4. Diagonal braces: 1-5/8", 1.660" O.D.
5. Roller posts: Nominal 6-5/8", 6.625" O.D.
6. All joints welded.
7. Post finish to match fence posts.
8. Framing and fabric finish to match main fence fabric.
9. Nylon rollers with sealed bearings and nylon roller covers.
10. Gate operation to be motorized see Section 32 3111 – Electric Gate Operators.

I. Accessories:

1. Malleable iron fittings, post tops, with steel bands.
2. Expansion sleeve couplings on top rails.
3. Post accessories finish to match fence posts.
4. Fabric accessories finish to match fence fabric.

2.2 VINYL COATED FABRIC

A. Poly Vinyl Chloride (PVC) coated steel chain link fence fabric, Extruded and Adhered/Bonded. Conforming to ASTM F668, Class 2a, and ASTM A90/A90M.

B. 9 gage zinc coated core wire size. 6 gage PVC coated finished wire size

C. 2" diamond mesh size.

D. Edges of all fabric, regardless of height, shall be knuckled at both selvages, top and bottom (KK).

E. Accessories:

1. Bands to fasten fabric to posts and top rails, max. 16" apart.
2. Tension Wire: #6 galvanized steel wire (at bottom, where specified).
3. Fabric Ties: #11 galvanized steel wire.

F. Color: Black.

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2.3 SECURITY WIRE

A. Barbed Wire Arms: Pressed steel or cast iron, with clips, slots, or other means for attaching strands of barbed wire , integral with post cap, for each post unless otherwise indicated, and as follows:

1. Provide line posts with arms that accommodate top rail or tension wire.
2. Provide corner arms at fence corner posts unless extended posts are indicated.
3. Single-Arm Type: Type II, vertical arm.

B. Barbed Wire:

1. Steel Barbed Wire: ASTM A121, two-strand barbed wire, 0.099-inch- diameter line wire with 0.080-inch- diameter, four-point round barbs spaced not more than 5 inches o.c.
   a. Aluminum Coating: Type A.
   b. Zinc Coating: Type Z, Class 3.

2. Clips: Stainless steel, 0.065 inch thick by 0.375 inch wide, capable of withstanding a minimum 150-lbf pull load to limit extension of coil, resulting in a concertina pattern when deployed.
3. Tie Wires: Stainless steel, 0.065 inch in diameter.Barbs are not polymer coated.

PART 3 - EXECUTION

3.1 PREPARATION

A. Verify that final grading in fence location is completed without irregularities which would interfere with fence installation.

B. Measure and lay out complete fence line, parallel to ground.

C. Locate line posts at equal distance spacing, maximum 10 feet on center.

D. Locate corner posts at positions where fence changes direction more than 10 degrees.

3.2 ERECTION

A. Posts:

1. Concrete Piers:
   a. Fencing up to 6 feet high: 10" diameter and 39" deep.
   b. Fencing over 6 to 8 feet high: 15" diameter and 42" deep.
   c. Fencing over 8 to 12 feet high: 15" diameter and 42" deep.
   d. Fencing over 12 to 16 feet high: 15" diameter and 78" deep.
   e. Fencing over 16 to 20 feet high: 15" diameter and 78" deep.
   f. Fencing over 20 feet high: 36” diameter and 78” deep.
   g. Crown 2" above finish grade, float finish.

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2. Extend posts into concrete piers:
   a. 36" at piers 39” deep.
   b. 36" at piers 42” deep.
   c. 72" at piers 78” deep.

3. Set posts plumb to 1/4" per 10 ft.

B. Rails:

1. Pass top rail through intermediate post caps.
2. Provide horizontal bracing rail between corner, end or gate posts and adjacent intermediate posts; anchor with rail clamps and 3/8" adjustable diagonal bracing rods.
3. Provide horizontal center rail between intermediate posts at fencing over 6 feet in height. Provide additional horizontal intermediate rails elsewhere as indicated or detailed.
4. Provide backstop canopy, braced as detailed, where specifically indicated for such.
5. Provide bottom rail where indicated or detailed. If no bottom rail is indicated, provide bottom tension wire.

C. Tension Wire:

1. Install tension wires before stretching fabric.
2. Tie to each post with wire ties or clips.
3. Provide bottom rail in place of tension wire where indicated or detailed. If no bottom rail is indicated, provide bottom tension wire.

D. Fabric:

1. Stretch fabric tight between terminal posts.
2. Anchor to posts, rails and tension wires to that fabric is in tension.
3. Install fabric on security side of fence.
4. Position bottom of fabric 1" above finish grade. Provide additional bottom bars as required at sloping grade conditions, to maintain maximum of 4” from grade to mesh at any location.
5. Thread stretcher bar through fabric and secure with bands spaced not over 15" o.c.

E. Barbed Wire: Install (3) rows of barbed wire uniformly spaced as indicated on Drawings. Pull wire taut, install securely to extension arms, and secure to end post or terminal arms.

3.3 CLEANING

A. Contractor shall clean the jobsite of excess materials.

B. Clean fence to remove all dirt, concrete, etc. from all surfaces.

PART 4 - SUBMITTAL CHECK LIST

A. Product Data.

B. Shop Drawings.

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C. Warranty.

END OF SECTION 32 3113

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SECTION 32 3223 - SEGMENTED RETAINING WALL

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Work includes furnishing and installing complete, all segmental retaining walls as shown on the Drawings, to the lines and grades designated and/or as directed by the Architect, including all appurtenant materials required for construction of the retaining wall system.

B. See Drawings for any additional details and requirements.

1.2 QUALITY ASSURANCE

A. Segmental Retaining Wall Units:

1. ASTM C1372 - Standard Specification for Segmental Retaining Wall Units.
2. ASTM C 140 - Standard Test Methods of Sampling and Testing Concrete Masonry Units.

B. Geosynthetic Reinforcement:

1. ASTM D 4595 - Tensile Properties of Geotextiles by the Wide-Width Strip Method.
2. ASTM D 5262 - Test Method for Evaluating the Unconfined Creep Behavior of Geosynthetics.
3. GRI:GG1 – Single-Rib Geogrid Tensile Strength.
4. GRI:GG5 - Geogrid Pullout.

C. Soils:

1. ASTM D 698 - Moisture Density Relationship for Soils, Standard Method.
2. ASTM D 422 - Gradation of Soils.
3. ASTM D 424 - Atterberg Limits of Soil.

D. Drainage Pipe:

1. ASTM D 3034 - Specification for Polyvinyl Chloride (PVC) Plastic Pipe.
2. ASTM D 1248 - Specification for Corrugated Plastic Pipe.

E. Engineering Design:

1. All retaining walls over 48” in effective height shall be designed and certified by a professional engineer, licensed in the State of the project’s location, and acquainted with the system specified.
2. “NCMA Design Manual for Segmental Retaining Walls,” Second Edition

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1.3 SUBMITTALS

A. Manufacturer's published literature and product data for all materials.

B. Detailed installation drawings; including plans, elevations, details and reinforcement.

C. Unit Sample.

D. Professional Engineer certification (as required).

1.4 DELIVERY, STORAGE AND HANDLING

A. Contractor shall check materials upon delivery to assure that specified type and grade of materials have been received and proper color and texture of units have been provided.

B. Contractor shall prevent excessive mud, wet concrete, epoxies and like materials that may affix themselves from coming in contact with materials.

C. Contractor shall store and handle materials in accordance with manufacturer's recommendations.

D. Contractor shall protect materials from damage. Damaged materials shall not be incorporated into the retaining wall.

PART 2 - PRODUCTS

2.1 ACCEPTABLE SYSTEMS

A. Provide one of the following acceptable systems:

1. "Anchor Diamond Pro Retaining Wall Units"
2. "Versa-Lok Retaining Wall Systems", Segmental Retaining Wall Units.
3. "Allan Block", AB Collection.

2.2 SEGMENTAL RETAINING WALL UNITS

A. Machine formed Portland Cement concrete blocks specifically designed for retaining wall applications.

B. Finish:

1. Split face.
2. Textured surface shall extend over all vertical surfaces that will be exposed after completion of wall, including any exposed sides and backs of units.

C. Color:

1. Integral throughout unit.

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2. Color as selected by Architect from manufacturer's entire standard selection.

D. Size:

1. Height of 6-8 inches (provide manufacturer's standard dimension).
2. Depth (front face to rear) to height ratio of 2:1, minimum.
3. Units' molded dimensions shall not differ more than ± 1/8 inch from that specified, in accordance with ASTM C1372.

E. Weight: 105 PSF wall face area, minimum.

F. Geometry:

1. Faces shall be of straight geometry.
2. Body shall be solid through the full depth of the unit

G. Design:

1. Interlocking design with connection pins.
2. Designed with proper setback to provide 8:1 vertical-to-horizontal batter, (a 7-degree cant from vertical).
3. Capable of being erected with the horizontal gap between adjacent units not exceeding 1/8 inch.
4. Capable of providing overlap of units on each successive course so that walls meeting at corner are interlocked and continuous.
5. Shall be sound and free of cracks or other defects that would interfere with the proper placing of the unit or significantly impair the strength or permanence of the structure. Cracking or excessive chipping are grounds for rejection. Units showing cracks longer than 1/2 inch shall not be used. Units showing chips visible at a distance of 30 feet from the wall shall not be used.
6. Concrete used to manufacture the units shall have a minimum 28 days compressive strength of 3,000 psi and a maximum moisture absorption rate, by weight, of 8% as determined in accordance with ASTM C1372. Compressive strength test specimens shall conform to the saw-cut coupon provisions of ASTM C140.

2.3 CONNECTION PINS

A. Glass-reinforced nylon.

2.4 GEO-SYNTHETIC REINFORCEMENT

A. Geo-grids or Geo-textiles manufactured as soil reinforcement elements.

B. The type, strength and placement location of the reinforcing geosynthetics shall be as determined by the manufacturer's Certifying Engineer, and be shown on the submittals.

2.5 DRAINAGE AGGREGATE

A. Clean angular limestone or washed river gravel.

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B. Maximum size, 1".

2.6 2.06 DRAINAGE PIPE

A. See Section 33 4000 - Site Drainage for specifications of piping products.

B. Provide either Perforated Drainage Tile or Polyethylene Plastic Piping (HDPE) as indicated on the Drawings. If not indicated specifically, provide Perforated Drainage Tile at all wall locations for the length of the entire wall and elsewhere that may be indicated.

2.7 WALL DRAIN

A. Provide a through wall drain to connect to drainage pipe at rear of segmental wall. Wall drain to be located per manufacturers recommendation or as shown on Drawings.

B. Provide "Wall Drain Pro" or similar for a through wall drain.

PART 3 - EXECUTION

3.1 INSPECTION

A. Thoroughly review existing site conditions prior to preparation of wall layout.

3.2 EXCAVATION

A. Excavate to the lines and grades shown on the project grading plans. Take precautions to minimize over-excavation.

B. Verify location of existing structures and utilities prior to excavation. Contractor shall ensure all surrounding structures are protected from the effects of wall excavation. Excavation support, if required, is the responsibility of the Contractor.

3.3 FOUNDATION PREPARATION

A. Foundation soil shall be proof rolled and compacted to 95% standard Proctor density.

B. Leveling pad shall be placed with a minimum thickness of 6 inches. The leveling pad should extend laterally at least 6 inches from the toe and heel of the lower most units.

C. Granular leveling pad material shall be compacted to provide a firm, level bearing surface on which to place the first course of units. Well-graded sand can be used to smooth the top 1/4 to 1/2 inch of the leveling pad.

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3.4 UNIT INSTALLATION

A. Unit shall be installed at the proper elevation and orientation.

B. First course of units shall be placed on the leveling pad. The units shall be leveled side-to-side, front-to-rear and with adjacent units, and aligned to ensure intimate contact with the leveling pad.

C. All excess debris shall be cleaned from top of units and the next course of units installed on top of the units below.

D. Connection pins shall be inserted through the pin holes of each upper course unit into receiving slots in lower course units. Pins shall be fully seated in the pin slot below. Units shall be pushed forward to remove any looseness in the unit-to-unit connection.

E. Layout of curves and corners shall be installed in accordance with the wall plan details.

3.5 GEOSYNTHETIC REINFORCEMENT PLACEMENT

A. All geo-synthetic reinforcement shall be installed at the proper elevation and orientation.

3.6 DRAINAGE MATERIALS

A. Drainage aggregate shall be installed to the line, grades and sections shown on the details. Drainage aggregate shall be placed to the minimum thickness shown on the details. Drainage aggregate shall be placed to the minimum thickness shown on the construction plans between and behind units (a minimum of one cubic foot for each exposed square foot of wall face unless otherwise noted on the final wall plans.

B. Drainage collection pipes shall be installed to maintain gravity flow of water outside the reinforced soil zone. The drainage collection pipe shall daylight into a storm sewer or along a slope, at an elevation lower than the lowest point of the pipe within the aggregate drain.

3.7 BACKFILL PLACEMENT

A. The reinforced backfill shall be placed in the maximum compacted lift thickness of 10 inches and shall be compacted to a minimum of 95% of standard Proctor density (ASTM D 698) at a moisture content within 2% of optimum. The backfill shall be placed and spread in such a manner as to eliminate wrinkles or movement of the geo-synthetic reinforcement and the SRW units.

B. Only hand-operated compaction equipment shall be allowed within 3 feet of the back of the wall units.

C. At completion of wall construction, backfill shall be placed level with final top of wall elevation. If final grading, paving, landscaping and/or storm drainage installation adjacent to the wall is not placed immediately after wall completion, temporary grading and drainage shall be provided to ensure water runoff is not directed at the wall nor allowed to collect or pond behind the wall until final construction adjacent to the wall is completed.

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PART 4 - SUBMITTAL CHECK LIST

A. Manufacturer Literature.

B. Detailed Installation Drawings.

C. Samples.

D. Professional Engineer Certification.

END OF SECTION 32 3223

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SECTION 33 1100 - WATER DISTRIBUTION

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Domestic water system pipe and fittings.

B. Connection of domestic water system to municipal water system.

C. Fire protection water system pipe, fittings, valves and hydrants.

D. Connection of fire protection water system to municipal water system.

E. All costs associated with all permits, connection fees, survey documentation, as-built drawings, third-party tapping contractor if required by utility company, overtime if utility requires service interruption outside regular work hours, and like costs and scope of work.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM D 1785 - Specification for Polyvinyl Chloride (PVC) Plastic Pipe, Schedules 40, 80 and 120.
2. ASTM D 2241 - Specification for Polyvinyl Chloride (PVC) Pressure Rated Pipe (SDR Series).
3. ASTM D 3034 - Specification for Type PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings.
4. ASTM D 3139 - Specification for Joints for Plastic Pressure Pipes using Flexible Elastomeric Seals.

B. American Water Works Association (AWWA):

1. AWWA C 110 - Gray Iron Fittings, 3 inches through 48 inches, for Water and Other Liquids.
2. AWWA C 111 - Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.
3. AWWA C 151 - Ductile-Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water or Other Liquids.
4. AWWA C 504 - Rubber Seated Butterfly Valves.
5. AWWA C 509 - Resilient Seated Gate Valves 3 inch through 12 inch NPS, for Water and Sewage Systems.
6. AWWA C 600 - Installation of Ductile-Iron Water Mains and Appurtenances.
7. AWWA C 900 - Standard for Polyvinyl Chloride (PVC) Pressure Pipe, 4 inch through 12 inch for Water.

1.3 DEFINITIONS

A. Bedding: Fill placed under, beside and directly over pipe, prior to subsequent backfill operations.

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1.4 SUBMITTALS

A. Product Data for each type of pipe, pipe fitting, valve and accessory.

PART 2 - PRODUCTS

2.1 PIPE

A. Pipe sizes 2 inches and smaller that are installed below grade and outside building:

1. HDPE pressure rated pipe flexible pipe
2. Meet requirements of AWWA C901 and comply with ASTM D 2239 SIDR 9 (Pressure Rated 200 psi).

B. Pipe sizes 3 inches and larger that are installed below grade and outside building shall comply with one of the following:

1. Ductile Iron Water Pipe:
   a. In accordance with AWWA C 151.
   b. Fittings shall be mechanical joint or push-on joint complying with AWWA C 110 or AWWA C 111 (Class 50).

2. Polyvinyl Chloride (PVC) Water Pipe:
   a. Meet requirements of AWWA C900-16 and comply with ASTM D 2241, DR 18 (Pressure Rated 235 psi).
   b. Pipe joints shall be integrally molded bell ends in accordance with ASTM D 3139, with factory supplied elastomeric gaskets and lubricant.

2.2 GATE VALVES - 2 INCHES AND LARGER

A. Manufacturers: Mueller Resilient Seat Gate Valves.

B. AWWA C509, Iron Body, bronze mounted double disc, parallel seat type, non-rising stem with square nut, single wedge, resilient seat, flanged or mechanical joint ends, control rod, post indicator where noted on drawings, extension box and valve key.

2.3 BALL VALVES - 2 INCHES AND SMALLER

A. Manufacturers: Mueller Oriseal.

B. Brass Body, Teflon coated brass ball, rubber seats and stem seals, Tee stem pre-drilled for control rod, AWWA compression inlet end, compression outlet with electrical ground connector, with control rod, extension box and valve key.

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2.4 BUTTERFLY VALVES - 2 INCHES TO 24 INCHES

A. AWWA C 504, iron body, bronze disc, resilient replaceable seat, water or lug ends, infinite position lever handle.

2.5 CHECK VALVES , POST INDICATOR VALVES, AND BACKFLOW PREVENTORS

A. Specified in Section 21 0100 –Fire Protection System.

2.6 HYDRANTS

A. Type as required by utility company, local authority having jurisdiction and as indicated on the drawings. Shall be UL listed and comply with the American Water Works Association specification C 502-85.

B. Hydrant Extensions: In multiples of 6 inches with rod and coupling to increase barrel length.

C. Hose and Stream Connection: Match sized with utility company, two hose nozzles, one pumper nozzle. Provide connection type as required by local Fire Marshall.

D. Valves and Connections: Provide valve opening size as required by local authority and gated connections to the main.

E. Finish: Primer and two coats of enamel finish paint, color of body and tops per local authority.

2.7 ACCESSORIES

A. Provide concrete thrust blocks using concrete to provide sufficient bearing area to transmit unbalanced thrust from bends, tees, caps, or plugs to undisturbed soil without loading undisturbed soil in excess of 2,500 PSF at 100 psi water main pressure.

B. Tracer Wire:

1. Basis of Specification: “Performance Wire and Cable, Inc.”, Tracer Wire.
2. Description:
    a. Solid copper single conductor tracer wire insulated with a low density polyethylene (LDPE).
    b. Designed to carry a radio signal to aid in the location of buried plastic piping.
3. Size wire as required , 12 AWG conductor minimum.

C. Identification:

1. Tracer wire to be terminated at the service entry to the building and exposed for access.
    a. Interior to building: terminate for water service entry at main shut off valve and for fire service entry at riser location.
    b. Exterior to building (when interior is not feasible): terminate above ground at point of entry of piping into building.

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2. Tag and label wire at service point termination as follows:
   a. Domestic Water Lines: “DOMESTIC WATER SERVICE”.
   b. Fire Protection Water Lines: “FIRE PROTECTION WATER SERVICE”.

PART 3 - EXECUTION

3.1 PREPARATION

A. Hand trim excavations to required elevations. Correct over excavation with fine aggregates.

B. Remove large stones or other hard matter which could damage pipe or impede consistent backfilling or compaction.

C. Cut pipe ends square, ream pipe and tube ends and remove burrs.

D. Remove scale and dirt, on inside and outside, before assembly.

E. Prepare pipe for connections to equipment with flanges or unions.

3.2 BEDDING

A. Excavate pipe trench and place bedding material. Provide trench wall shoring as required.

B. Form and place concrete for pipe thrust restraints at any change of pipe direction and at fittings as indicated on Drawings.

C. Place bedding material at trench bottom, level fill materials in one continuous layer not exceeding 6 inches compacted depth, each layer. Place compacted bedding material to elevation of paving subgrade.

3.3 INSTALLATION - PIPE AND FITTINGS

A. Maintain separation of water main from sanitary and storm sewer piping in accordance with state or local codes or requirements of the Health Department.

B. Install pipe and fittings in accordance with AWWA C600.

C. Install pipe to allow for expansion and contraction without stressing pipe or joints or as specified by pipe manufacturer.

D. Install access fittings in accordance with local codes to permit disinfection of water system performed under this Section.

E. Connections with Existing Pipelines: Where connections are made between new work and existing piping, make connection using suitable fittings for conditions encountered. Make each connection with existing pipe at time and under conditions which least interfere with operation of existing pipeline and in compliance with the local utility company.

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F. Form and place concrete for thrust blocks or other specified methods of retainage at each change of direction or end of pipe main.

G. Establish elevations of buried piping in accordance with Section 31 0000 for work in this Section. Provide 36" minimum cover.

H. Backfill trench in accordance with Section 31 0000.

I. Install trace wire continuous buried 10 inches below finish grade, above pipe line. Trace wire shall be in accordance with local utilities standards.

3.4 INSTALLATION - VALVES AND HYDRANTS

A. Install gate valves as indicated on Drawings and supported on concrete pads with valve stem vertical and plumb. Install valve boxes in a manner that will not transmit loads, stress, or shock to valve body. Center valve box over operating nut of valve vertical and plumb. Securely fit valve box together leaving cover flush with finished surface.

B. Install fire hydrant assemblies as indicated on Drawings in vertical and plum position with stream/pumper nozzle pointed perpendicular to traffic where hydrant is adjacent to a street, roadway or parking lot drive or toward the protected building unless otherwise directed by local authorities. Support hydrant assembly on concrete pad and firmly braced on side opposite inlet pipe against undisturbed soil and concrete blocking. Place minimum of 6 cu. ft. of crushed stone or gravel around hydrant base and barrel after thrust blocking has cured at least 24 hours. Exercise care when backfilling and compacting so proper vertical position will not be altered.

C. Provide a drainage pit 36 inches square by 24 inches deep filled with 2 inch washed gravel. Encase elbow of hydrant in gravel to 6 inches above drain opening. Do not connect drain opening to sewer.

D. Paint hydrants in accordance with local utility company requirements.

3.5 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

A. Disinfect distribution system with chlorine before acceptance for domestic operation. Amount of chlorine shall be such as to provide dosage of not less than 50 parts/million. Thoroughly flush lines before introduction of chlorinating materials and after contact period of not less than 24 hours, system shall be flushed with clean water until residual chlorine content is not greater than 1.0 part/million. Open and close valves in lines being disinfected several times during contact period. After disinfection, take water sample and bacteriological test in accordance with AWWA specifications. Do not place distribution system in service until approval is obtained from applicable governing authorities.

3.6 SERVICE CONNECTIONS

A. Provide water service connection in compliance with utility company requirements including reduced pressure backflow preventer if required and water meter with by-pass valves and sand strainer and as detailed on drawings.

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3.7 FIELD QUALITY CONTROL

A. Site Tests:

1. Compaction:
   a. Perform inspections prior to and immediately after placing bedding.
   b. Perform tests as specified in Section 31 0000.

2. Piping: Water distribution system pipe installed below grade and outside building shall be tested in accordance with following procedures:
   a. Perform the testing of pipe materials, joints, and/or other materials incorporated into the construction of water mains and force mains to determine leakage and watertightness. All pressure pipeline shall be tested in accordance with Section 4 of AWWA C600 latest edition. In the event any state or local code requires a more stringent test, the more stringent shall apply.
   b. Pressure Test: After the pipe has been laid, all newly laid pipe or any valved section thereof shall be subjected to a hydrostatic pressure of at least 1.5 times the working pressure at the point of testing and not less than 1.25 times the working pressure at the highest point along the test section.
   c. Leakage Test: The leakage test shall be conducted concurrently with the pressure test. Leakage is defined as the quantity of water that must be supplied into the newly laid pipeline, or any valved section thereof, to maintain pressure within 5 psi of the specified test pressure after the air in the pipeline has been expelled and the pipeline has been filled with water. Leakage shall not be measured by a drop in pressure in a test section over a period of time. No pipeline installation will be accepted if the leakage is greater than that determined by the following formula:

$$L = \frac{SD\sqrt{P}}{133200}$$

      L = allowable leakage, (gallons per hour)
      S = length of pipe tested, (feet)
      D = nominal diameter of pipe, (inches)
      P = average test pressure during test, (psig)
   d. Visible Leakage: All visible leaks shall be repaired regardless of the amount of leakage.
   e. Acceptance of Installation: If any test of pipe laid in place discloses leakage greater than that specified, the Contractor shall, at his own expense, locate the leak and make repairs as necessary until the leakage is within the specified allowance. Contractor shall supply all water for testing at no additional cost to the Owner.
   f. Provide one copy of results of meter test and hydrostatic pressure test to Architect and utility company upon completion of water distribution backfilling operations.

PART 4 - SUBMITTAL CHECK LIST

A. Product data for pipe, fittings, valves, and accessories.

B. Meter test.

C. Hydrostatic pressure test.

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END OF SECTION 33 1100

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SECTION 33 3000 - SANITARY SEWAGE

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish labor, materials, equipment, special tools, supervision, and services required to complete the following work indicated, noted, detailed on the drawings and specified herein.

B. All costs associated with all permits, connection fees, survey documentation, as-built drawings, third-party tapping contractor if required by utility company, overtime if utility requires service interruption outside regular work hours, and like costs and scope of work.

1.2 REFERENCES

A. ASTM D1785 - PVC Plastic Pipe, schedule 40, 80 and 120.

B. ASTM 02665 - PVC Plastic Drain, Waste and Vent Pipe and Fittings.

1.3 SUBMITTALS

A. Submit manufacturer's product literature.

1. Published product data sheets.
2. Include date on pipe materials, pipe fittings, valves and accessories.

PART 2 - PRODUCTS

2.1 SANITARY SEWER PIPING

A. PVC Schedule 40 or 80.

B. Fittings: PVC Schedule 40 or 80, designed for solvent welded constructions.

2.2 MANHOLES

A. Precast concrete 48 inch diameter.

B. Provide pipe connections cast into unit.

C. Provide cast iron manhole frame and lid, 24 inch minimum diameter.

D. Manhole steps cast into units.

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PART 3 - EXECUTION

3.1 EXCAVATION AND BACKFILL

A. Refer to Section 31 0000 for materials and quality control.

B. Bottom of trench shall be shaped to give substantially uniform support to the lower third of all pipe. The full length of each section of pipe shall rest solidly upon pipe bed.

3.2 INSTALLATION

A. Route piping in orderly manner and maintain gradient.

B. Route piping to minimize excavation. Group piping whenever practical.

C. Install piping to allow for expansion and contraction without stressing pipe, joints or connected equipment.

D. Cleanouts shall be at grade and supported by a poured concrete box 24 inch x 24 inch x 12 inch thick.

E. Establish invert elevations, slopes for drainage 1/8 inch per foot.

F. Provide a minimum of 24” of cover.

3.3 SERVICE CONNECTIONS

A. Provide new sanitary sewer services. Before commencing work check tap locations, invert elevations required for sewer connections, confirm inverts and ensure that these can be properly connected with slope for drainage.

3.4 SUBMITTAL CHECK LIST

A. Product Literature.

END OF SECTION 33 3000

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SECTION 33 4000 - SITE DRAINAGE

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Section Includes:

1. Perforated Drainage Tile.
2. Polyethylene Plastic Piping (HDPE).
3. Reinforced Concrete Piping (RCP).
4. PVC Piping.
5. Cast Iron Grates and Covers.
6. Catch Basins and Inline Drains.
7. Culverts and Headwalls.

B. All costs associated with all permits, connection fees, survey documentation, as-built drawings, third-party tapping contractor if required by utility company, overtime if utility requires service interruption outside regular work hours, and like costs and scope of work.

C. Unless specifically indicated on the Drawings, Contractor has the option to utilize concrete or HDPE products.

1.2 SUBMITTALS

A. Product Data:

1. Manufacturer's product data sheets, cutsheets, specifications and materials description.
2. Manufacturer's installation and maintenance instructions.

1.3 JOB CONDITIONS

A. Do not discharge water into sanitary sewers.

B. Do not discharge water containing settleable solids into storm sewers.

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PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Polyethylene Plastic Piping:

1. "Advanced Drainage Systems (ADS)"
2. “Prinsco”.
3. “Hancor”.
4. “Vericore Technologies”.
5. “Haviland Drainage Products”.
6. “Freedom Plastics, Inc.”.

B. Grates and Covers:

1. "Neenah".
2. "Advanced Drainage Systems (ADS)".
3. “Prinsco”.
4. “Freedom Plastics, Inc.”.
5. “Drainage Solutions, Inc.”

2.2 MATERIAL

A. Perforated Drainage Tile:

1. Provide one of the following approved products:
   a. "ADS" Single-Wall Pipe.
   b. “Prinsco” Goldline.
   c. “Haviland” Agricultural Pipe.
2. Heavy duty, HDPE polyethylene plastic, perforated.
3. Single wall, corrugated interior and exterior surfaces.
4. Wrapped with manufacturer’s standard “sock”, heavy-duty polyester synthetic pipe wrap.
5. AASHTO rated for typical highway loads.
6. Soil-tight joints per AASHTO section 26.
7. Fittings, couplings, and joints as required.
8. Slots or circular perforations for water entry, uniformly spaced along the length and circumference of the pipe.
9. Perforations to comply with all requirements of ASTM F-405, ASTM F-667, AASHTO M-252 (3”-10”) and AASHTO M-294 (12” and larger).

B. Polyethylene Plastic Piping (HDPE):

1. Provide one of the following approved products:
   a. "ADS" N-12.
   b. “Prinsco” Goldflo and Goldflo WT.

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2. "Haviland" Smooth Flow Pipe.
3. Heavy duty, HDPE polyethylene plastic, solid.
4. Dual wall, corrugated exterior with smooth interior wall.
5. AASHTO rated for typical highway loads.
6. Soil-tight joints per AASHTO section 26.
7. Fittings, couplings, and joints as required.
8. To comply with all requirements of AASHTO M-252 (3"-10") and AASHTO M-294 (12" and larger). Includes test methods, dimensions, markings, etc.
9. Minimum pipe stiffness to comply with ASTM D-2412.
10. Pipe and fittings shall be made of polyethylene compounds which meet or exceed the requirements of Type III, Category 4 or 5, Grade P33 or P34, Class C per ASTM D-1248.
11. Male and female pipe ends which allow the construction of overlapping, gasketed joints, shall be in accordance with ASTM D-3212.
12. Gaskets shall be flexible, elastomeric neoprene to meet or exceed the requirements of ASTM F-477.

C. Reinforced Concrete Piping (RCP):

1. Reinforced, Class III or IV as appropriate for site condition, or as noted.
2. Pipe shall be furnished with a bell or groove on one end of a unit, and a spigot or tongue on the adjacent end of the adjoining pipe for an overlapping joint.
3. All joints shall have a groove on the spigot for placement of a rubber "O" ring or profile gasket. The gasket shall be a continuous ring which fits snugly into the annular space between the overlapping surfaces of the assembled pipe joint to form a flexible, soil-tight seal.
4. Rubber compression gaskets shall meet or exceed the requirements of ASTM C-443.
5. Piping, fittings and specialties to comply with all requirements of ASTM C-76.
6. Lift holes are not allowed for pipe less than 24" in diameter. A maximum of 2 lift holes are allowed for pipe 24" or larger. Lift holes shall be permanently replaced per INDOT specifications.
7. Each pipe section shall be marked with manufacturer, plant identification, specification designation, size of pipe, class of pipe and date of manufacture.

D. PVC Piping:

1. Schedule 40 typical at all lawn and landscape areas.
2. Schedule 80 below all drives, roads, alleys, parking areas and like conditions.
3. Schedule 120 at other conditions where indicated on the Drawings.

E. Cast Iron Grates and Covers:

1. Sizes and configurations as indicated on the Drawings.
2. Heavy duty (H-20, DOT rated) in all areas.
3. All inlet grates to be slotted type, domed in all lawn or landscape areas, flat in all paved areas.
4. Install slots and openings in grates perpendicular to flow of traffic.
5. Manhole and cleanout covers to be solid type version of inlet grates, flat and soil tight.

F. Catch Basins and Inline Drains:

1. Precast Concrete, Sitecast Concrete, HDPE Polyethylene, or PVC as indicated on Drawings.
2. Size and configurations as required for each condition.

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G. Culverts and Headwalls:

1. Precast Concrete, Sitecast Concrete, HDPE Polyethylene, or PVC as indicated on Drawings.
2. Where not indicated specifically, provide concrete headwall with vertical wall and sides in a U-shaped configuration and a solid bottom face surface connecting these vertical walls for water outlet impact with drain piping outlets integral to the face of the headwall.

PART 3 - EXECUTION

3.1 PERFORATED DRAINAGE TILE

A. Installation shall be in accordance with manufacturer’s published recommendations, local City or agency requirements and per ASTM Recommended Practice for the applicable piping material.

B. Lay pipe to provide uniform bearing with 1/8" per foot drainage slopes, or as indicated on the Drawings.

C. Avoid sudden offsets in flow line.

D. Do not lay perimeter drain with bottom of tile below bottom of adjacent footing.

E. Provide and install all couplings, fittings and accessories as required for a complete installation.

F. Backfill pipe with granular drainage fill and per all manufacturer's specifications.

G. Install at line of all perimeter exterior footings, whether indicated on Drawings or not.

3.2 CULVERTS AND HEADWALLS

A. Installation shall be in accordance with manufacturer’s published recommendations, local City or agency requirements and per ASTM Recommended Practice for the applicable piping material.

B. Lay pipe to provide uniform bearing with 1/8" per foot drainage slopes, or as indicated on the Drawings.

C. Pipe length minimum 4 feet beyond edge of drive.

3.3 STORM PIPING

A. Installation shall be in accordance with manufacturer’s published recommendations, local City or agency requirements and per ASTM Recommended Practice for the applicable piping material.

B. Lay pipe to provide uniform bearing with 1/8" per foot drainage slopes, or as indicated on the Drawings.

C. Provide and install all couplings, fittings and accessories as required for a complete installation.

D. Seal all joints water tight and soil tight.

E. Provide cleanouts and manholes as indicated on the Drawings.

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F. Backfill pipe excavation, particularly bedding, with materials and compaction per manufacturer's specifications for each condition present, to provide a water tight and soil tight system.

G. Installation depth shall provide for a minimum cover of 1'-0" for all pipe 48" in diameter and less, and 2'-0" for pipe over 60" in diameter.

PART 4 - SUBMITTAL CHECKLIST

A. Product Data.

END OF SECTION 33 4000

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Harrison REMC - ADDITION & RENOVATION

1165 OLD FOREST RD, CORYDON, IN 47112
BID DOCUMENTS

DESIGN TEAM

ARCHITECT/ENGINEER

TowerPinkster
Architecture · Engineering · Interiors

320 PEARL STREET, SUITE 100
NEW ALBANY, IN 47150
PHONE: 8112.282.9554
FAX: 812.282.9171

STRUCTURAL ENGINEER

BROWN+KUBICAN STRUCTURAL ENGINEERS

8900 GREENWAY COMMONS PLACE, SUITE 201
LOUISVILLE, KY 40220
PHONE: 502.749.2061

CIVIL ENGINEER

HERITAGE ENGINEERING

603 NORTH SHORE DRIVE, UNIT 204
JEFFERSONVILLE, IN 47130
PHONE: 812.280.8201
FAX: 812.280.8281

MECHANICAL, ELECTRICAL, AND PLUMBING ENGINEER

CMTA

10411 MEETING STREET
PROSPECT. KY 40059
PHONE: 502.326.3085

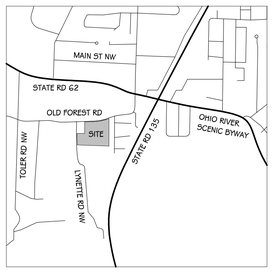
REFERENCED CODES

BUILDING:	2014 INDIANA BUILDING CODE (IBC 2012 WITH AMENDMENTS)
ENERGY:	2010 INDIANA ENERGY CONSERVATION CODE
PLUMBING:	2012 INDIANA PLUMBING CODE
MECHANICAL:	2014 INDIANA MECHANICAL CODE
FUEL GAS:	2014 INDIANA FUEL AND GAS CODE
ELECTRICAL:	2009 INDIANA ELECTRICAL CODE
BARRIER-FREE:	2010 ADA STANDARDS FOR ACCESSIBILE DESIGN
USE GROUP:	B/S-1
CONSTRUCTION TYPE:	IIB
AUTOMATIC SPRINKLERS:	NO

PROJECT AREA

TOTAL FINISHED PROJECT: 37,988 SQ. FT.

SITE ADDRESS



HARRISON REMC
1165 OLD FOREST RD NW
CORYDON, IN 47112

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G 101 FIRST FLOOR CODE COMPLIANCE PLAN BUILDING 1
G 102 FIRST FLOOR CODE COMPLIANCE PLAN BUILDING 2

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C1.0 EXISTING CONDITIONS PLAN
C2.0 SITE PLAN
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LS101 LANDSCAPE DETAILS

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S2.3 ROOF FRAMING PLAN - BUILDING 1
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A 321 WALL SECTIONS AND DETAILS
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A 324 WALL SECTIONS AND DETAILS
1 A 401 ENLARGED TOILET ROOM PLANS, FLOOR PLANS, AND PLAN DETAILS
A 501 DOOR SCHEDULES, FRAME ELEVATIONS, HEAD AND JAMB DETAILS
A 502 MISCELLANEOUS DETAILS
A 901 INTERIOR SIGNAGE

INTERIORS
I 101 FIRST FLOOR FINISH PLAN & SCHEDULE - BUILDING 1
ALT. 2A I 102 FIRST FLOOR FINISH PLAN & SCHEDULE - BUILDING 2
I 301 INTERIOR ELEVATIONS
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M300 ZONING - BUILDING 1
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E-700 ELECTRICAL DETAILS
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W.C.E. A. WILSON
REGISTERED
NO. AR11900004
STATE OF
INDIANA
ARCHITECT

ADDENDUM 1	05/07/2025
BID DOCUMENTS	04/24/2025
ISSUED FOR	DATE

PROJECT TITLE
Harrison REMC - ADDITION & RENOVATION

OWNER
HARRISON REMC

1165 OLD FOREST RD, CORYDON, IN 47112

DATE
April 24, 2025

SHEET TITLE
COVER SHEET

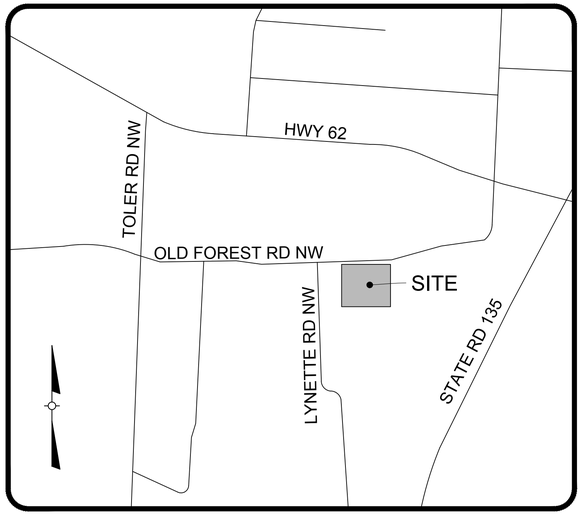
SHEET NUMBER
G 001
24179.00

CONSTRUCTION PLANS
for
HARRISON REMC MAIN CAMPUS
1165 OLD FOREST ROAD
CORYDON, IN 47112



INDIANA

N.T.S.



LOCATION MAP
NOT TO SCALE

Sheet List Table

Sheet Number	Sheet Title
C0.0	COVER SHEET
C0.1	GENERAL NOTES
C1.0	EXISTING CONDITIONS PLAN
C2.0	SITE PLAN
C2.1	COMPOSITE DRAINAGE PLAN
C3.0	GRADING PLAN
C3.1	BUILDING ADDITION GRADING PLAN
C4.0	DETAIL SHEET
ER1	EROSION CONTROL PLAN
ER2	EROSION CONTROL NOTES

GENERAL NOTES:

1. ALL AREAS DISTURBED BY THE CONTRACTOR'S ACTIVITIES SHALL BE SEEDED, STRAWED/MULCHED & PROTECTED FROM EROSION PER THE SPECIFICATIONS.
2. CONTRACTOR TO COORDINATE ANY NEEDED UTILITY RELOCATIONS WITH APPROPRIATE UTILITY COMPANY. COSTS ASSOCIATED WITH ANY NECESSARY UTILITY RELOCATIONS SHALL BE AT THE OWNER'S OR UTILITY COMPANIES EXPENSE, PROVIDED THAT THE COSTS ARE AGREED UPON PRIOR TO COMMENCING THE WORK.
3. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL MATERIALS USED TO COMPLETE THE PROJECT.
4. CONTRACTOR TO USE INDOT #8 STONE BACKFILL UNDER ALL STRUCTURES PLACED ON DISTURBED EARTH UNLESS OTHERWISE INDICATED ON THE PLANS.
5. ALL EX. STRUCTURES, PIPES, UTILITIES, ETC. DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN KIND UNLESS OTHERWISE NOTED.
6. BACKFILL TYPE 1–GRANULAR BACKFILL MATERIAL SHALL BE INDOT #8 IN ACCORDANCE WITH INDOT STANDARD SPECS. GRANULAR BACKFILL LIMITS SHALL INCLUDE ALL WORK WITHIN PAVED AREAS & ALL WORK WITHIN 5' OF PAVED AREAS (UNLESS SHOWN OTHERWISE ON THE PLANS).
7. BACKFILL TYPE 2–IN AREAS NOT REQUIRING GRANULAR BACKFILL MATERIAL, THE TRENCH SHALL BE CAREFULLY BACKFILLED WITH CLEAN EARTH FILL MATERIAL FREE OF ROCKS LARGER THAN 2"ø, FROZEN LUMPS OF SOIL, WOOD OR OTHER EXTRANEOUS MATERIAL.

EPSC NOTES

1. THE APPROVED STORM WATER POLLUTION PREVENTION PLAN SHALL BE IMPLEMENTED PRIOR TO ANY LAND–DISTURBING ACTIVITY ON THE CONSTRUCTION SITE. ANY MODIFICATIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE REVIEWED AND APPROVED BY LOCAL GOVERNING AGENCY. EROSION AND SEDIMENT CONTROL BMPS SHALL BE INSTALLED PER THE PLAN AND LOCAL GOVERNING AGENCY'S STANDARDS.
2. ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO ROADWAYS. ALL TRUCKS & EQUIPMENT WILL HAVE THE DIRT REMOVED FROM TIRES BEFORE ENTERING A PUBLIC ROADWAY. A WASH AREA WILL BE SET UP. THIS AREA WILL BE PROTECTED WITH SEDIMENT CONTROLS. SOIL TRACKED ONTO THE ROADWAYS SHALL BE REMOVED DAILY.
3. SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES AND CATCH BASINS. STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.
4. WHERE CONSTRUCTION OR LAND DISTURBANCE ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICAL, BUT NO LATER THAN 14 CALENDAR DAYS AFTER THE ACTIVITY HAS CEASED.
5. SEDIMENT–LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, OR CATCH BASIN.
6. CONTRACTOR MUST MAINTAIN THE EROSION AND SEDIMENT CONTROL PLAN AT ALL TIMES.
7. PORTABLE SANITARY FACILITIES AND FUEL TANKS ARE NOT SHOWN ON THIS PLAN. CONTRACTOR TO COORDINATE LOCATION(S) WITH OWNER AT PRE–CONSTRUCTION MEETING AND ADD LOCATIONS ON PLAN. PLAN MUST BE UPDATED AT ALL TIMES TO REFLECT CURRENT SITE CONDITIONS.
8. CONCRETE WASHOUT AREA IS NOT SHOWN ON THIS PLAN. CONTRACTOR TO COORDINATE LOCATION(S) WITH OWNER AT PRE–CONSTRUCTION MEETING AND ADD LOCATIONS ON PLAN. CONTRACTOR SHALL MAINTAIN CONCRETE WASHOUT AREA.
9. PROPER STORAGE, MATERIALS HANDLING, AND SPILL PREVENTION AND CLEAN–UP MEASURES SHALL BE IMPLEMENTED TO MINIMIZE SURFACE WATER OR GROUND WATER CONTAMINATION. REPORT ANY SPILLS TO IDEM EMERGENCY RESPONSE IMMEDIATELY (1–888–233–7745).
10. CONTRACTOR SHALL UPDATE AND MAINTAIN THIS PLAN THROUGHOUT THE CONSTRUCTION PROCESS.
11. CONTRACTOR SHALL KEEP A COPY OF THE IDEM NOTICE OF INTENT ON SITE.

THE CONTRACTOR ASSUMES SOLE RESPONSIBILITY FOR SITE SAFETY

1. IT SHALL BE THE RESPONSIBILITY OF ANY AND ALL CONTRACTORS INVOLVED IN THIS PROJECT TO DO WHATEVER IS NECESSARY TO COMPLY FULLY WITH THE " WILLIAMS – STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970".

OWNER

HARRISON REMC
1165 OLD FOREST ROAD
CORYDON, IN 47112

IMPERVIOUS AREAS

EXISTING	176,556 S.F.
PROPOSED	237,010 S.F.
CHANGE	+60,454 S.F.

AREA OF DISTURBANCE

4.08 ACRES

UTILITY CONTACTS:

WATER: TOWN OF CORYDON WATER
CONTACT: DAVE COBURN (812) 738–3958

ELECTRIC: HARRISON COUNTY REMC
CONTACT: JASON FLOCK (812) 738–4115 (EXT. 268)

CABLE: TIME WARNER CABLE
CONTACT: NATHEN HOWERTON (502) 357–4400

TELEPHONE: FRONTIER COMMUNICATIONS
CONTACT: DAVE BOOK (812) 738–5517

GAS: VECTREN ENERGY
CONTACT: PAUL SCHROEDER (812) 948–4954

STORM: HARRISON COUNTY ENGINEER'S OFFICE
CONTACT: KEVIN RUSSEL, P.E. (812) 738–4600

SANITARY: HARRISON COUNTY REGIONAL SEWER DISTRICT
CONTACT: ROBERT WOOSLEY, P.E. (502) 727–0079

Revision	Date	Description	Detailed By	Chk'd By	Approved By
1	5–7–25	ADDENDUM 1	DJ	DJ	CJD

UTILITY NOTE:

ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. PRIOR TO ANY EXCAVATION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE NECESSARY UTILITY AGENCIES AND OBTAIN THE PRECISE LOCATION OF THEIR FACILITIES. THE CONTRACTOR SHALL FAMILIARIZE THEMSELF WITH ALL UTILITY REQUIREMENTS AS SET OUT ON THE PLANS, IN THE SPECIFICATIONS, AND IN THE SPECIAL PROVISIONS.

THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER "HOLEY MOLEY" (TOLL FREE PHONE No. 1–800–382–5544) TWO (2) WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS & WATER LINES).

Indiana811 Know what's below. Call before you dig

TEMPORARY BENCHMARKS

TBM#1
DESCRIPTION:
ELEVATION:
COORDINATES:

ENGINEER:
HERITAGE ENGINEERING, LLC
642 South 4th Street
Suite 100
Louisville, KY 40202
(502) 562–1412
(502) 562–1413 Fax

603 North Shore Drive
Unit 204
Jeffersonville, IN 47130
(812) 280–8201
(812) 280–8281 Fax

OWNER/DEVELOPER:
HARRISON REMC
1165 OLD FOREST RD
CORYDON, IN 47112

PROJECT:
CONSTRUCTION PLANS
FOR
HARRISON REMC
MAIN CAMPUS
1165 OLD FOREST ROAD
CORYDON, IN 47112
COVER SHEET

CASEY J. DEYOUNG
REGISTERED
NO. 11500081
STATE OF INDIANA
PROFESSIONAL ENGINEER

JOB NO:	24071
HORIZ. SCALE:	N/A
VERTICAL SCALE:	N/A
DESIGNED BY:	DJ
DETAILED BY:	SDK
CHECKED BY:	CJD
DATE:	5/7/25

SHEET
C0.0
of 10

ADDENDUM 1

X:\AA–Projects–2024\24071 – Harrison REMC Campus\Construction – Main Campus\24071– COVER.dwg PLOT DATE: May 07, 2025 – 4:28pm

GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIAL, EQUIPMENT, TOOLS, AND SERVICES REQUIRED TO COMPLETE CONSTRUCTION AND MATERIAL TESTING FOR THE WORK. ALL WORK SHALL BE PERFORMED IN A SAFE AND REASONABLE WORKING MANNER IN ACCORDANCE WITH THE BEST PRACTICES AND PROCEDURES.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL, ORDINANCES, REGULATIONS AND REQUIREMENTS NECESSARY TO COMPLETE THE WORK; THIS INCLUDES PROVISIONS FOR MAINTENANCE OF TRAFFIC, CONSTRUCTION AND THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

PAVEMENTS

1. ASPHALT CONCRETE SURFACE SHALL BE CLASS I TYPE A, COMPACTED DEPTH AS SHOWN.
2. ASPHALT CONCRETE BINDER SHALL BE CLASS I COMPACTED DEPTH AS SHOWN.
3. STONE BASE AND SUBBASE SHALL BE PLACED AND COMPACTED IN SEPARATE COURSES.
4. TACK COAT SHALL BE APPLIED AT THE RATE OF 0.1 GALLONS PER SQ. YD. WITH INSTALLATION OF SURFACE ASPHALT. WHEN THE FINAL SURFACE ASPHALT INSTALLATION OCCURS AT A DIFFERENT TIME THAN THAT OF THE ASPHALT BASE COURSE, AND ASPHALTIC TACK COAT SHALL BE APPLIED AT THE SAME RATE OF 0.1 GALLONS PER SQ. YD. THE ASPHALTIC TACK COAT SHALL BE APPLIED UNIFORMLY AND OUT TO THE EDGES OF THE BASE COURSE TO INSURE PROPER ADHESION OF SURFACES.

SIDEWALKS, CURBS, DRAINAGE

1. ALL CONCRETE TO BE A MINIMUM OF 3,500 PSI UNLESS OTHERWISE SPECIFIED.
2. THE CONTRACTOR SHALL PROVIDE AN EXPANSION JOINT BETWEEN THE CURB AND GRATE ON ALL CURB INLETS.
3. CONSTRUCT ½" EXPANSION JOINTS AT ALL BREAKS IN ALIGNMENT, AT ALL DRAINAGE BOXES AND OTHER FIXED OBJECTS, AT THE BEGINNING AND ENDING POINTS OF CURVES AND AT THE BEGINNING, QUARTER, MIDDLE AND ENDING POINTS OF SEMICIRCULAR CURVES.
4. ON LONG STRAIGHT, LINEAR RUNS OF CURBING, CONSTRUCT EXPANSION JOINTS A MAXIMUM OF EVERY 30' ON CENTER AND CONTROL/SCORE JOINTS EVERY 10' ON CENTER.
5. EXPANSION JOINTS WILL NOT BE REQUIRED AT THE QUARTER POINTS FOR SEMI CIRCLES HAVING RADII OF 5' OR LESS.
6. A MINIMUM OF (12) INCH DEPTH OF COVER OVER ALL CULVERT PIPES IS REQUIRED. A MINIMUM OF SIX (6) INCH ENCLOSED CLASS A CONCRETE ENCASEMENT WITH A MINIMUM PROTECTION INTO THE PAVEMENT STRUCTURE FOR ANY PIPE WITH REDUCED COVER IS REQUIRED.
7. ALL PIPE BACKFILL MUST MEET AASHTO H-20 LOADING REQUIREMENTS.

SIGNING & PAVEMENT MARKINGS

1. ALL SIGNS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION.
2. ALL SIGNS SHALL BE RETRO REFLECTIVE INCLUDING MESSAGE, BORDER, AND BACKGROUND.
3. STREET SIGNS SHALL HAVE A WHITE LEGEND ON A GREEN BACKGROUND.
4. REFER TO SECTION 2A.14 LETTERING AND DIMENSIONS
   "STANDARD HIGHWAY SIGNS "BOOK"
   "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS".
5. ALL ARROWS, TRACKING AND STOP BARS SHALL BE THERMOPLASTIC, NOT PAINTED.

MISCELLANEOUS

1. ALL EMBANKMENT BACKFILL AND SUBGRADE MATERIALS SHALL BE CONSTRUCTED AND COMPACTED TO 95% OF MAXIMUM DENSITY AND PLUS 2 OR MINUS 4 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
2. THE DEVELOPER WILL UTILIZE A REGISTERED GEOTECHNICAL ENGINEER TO TEST, VERIFY AND REPORT TO PROVIDE SATISFACTORY ASSURANCE OF EMBANKMENT AND PAVEMENT STABILITY. ALL EMBANKMENT SECTIONS IN EXCESS OF FOUR (4) FOOT DEPTH SHOULD BE TESTED AT ONE (1) FOOT LAYERS. CONTRACTOR SHALL UTILIZE A REGISTERED GEOTECHNICAL ENGINEER TO TEST, VERIFY AND REPORT ALL EMBANKMENT IN EXCESS OF FOUR (4) FOOT DEPTH.
3. ANY UNSUITABLE SOILS AND OTHER MATERIALS ENCOUNTERED DURING CONSTRUCTION OF THE ROADWAY SECTION WILL BE REMOVED TO THE DEPTH AND WIDTH SPECIFIED BY THE GEOTECHNICAL ENGINEER. THE EXCAVATION WILL BE BACKFILLED WITH SELECTED MATERIALS AND COMPACTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS.
4. CONTRACTOR SHALL NOTIFY OWNER/DEVELOPER BEFORE CONSTRUCTION BEGINS SO THAT OWNER MAY ENGAGE A GEOTECHNICAL ENGINEER FOR COMPACTION TESTING.
5. ACTIONS SHALL BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY. ANY WORK PERFORMED BY A PUBLIC AGENCY TO CORRECT THE CONDITIONS WILL BE CHARGED TO THE DEVELOPER.
6. THE CONTRACTOR WILL PREGRADE THE ENTIRE ROADWAY SECTION WITHIN THE RIGHT-OF-WAY LIMITS, INCLUDING THE ROADWAY SLOPES, DRAINAGE DITCHES AND ROADWAY CROSS-SECTION AS SHOWN ON THE TYPICAL ROADWAY SECTION PRIOR TO PLACEMENT OF THE ROCK BASE COURSE.
7. ALL FIRE HYDRANTS WILL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ORDINANCES.
8. IF ANY UTILITY LINES ARE ENCOUNTERED DURING CONSTRUCTION, EXTREME CAUTION SHOULD BE EXERCISED AND THE UTILITY COMPANY NOTIFIED IMMEDIATELY. ANY DAMAGES SHALL BE REPAIRED IMMEDIATELY AT THE DIRECTION OF THE UTILITY COMPANY INCLUDING TEMPORARY AND PERMANENT WORK AT NO ADDITIONAL EXPENSE TO OWNER/DEVELOPER.
9. ALL EXISTING TRAFFIC, WARNING, AND REGULATORY SIGNING WILL BE LOCATED, MAINTAINED DURING ALL CONSTRUCTION ACTIVITIES, AND IMMEDIATELY REPLACED AFTER CONSTRUCTION IS COMPLETED BY THE CONTRACTOR.
10. LANDSCAPING SHALL BE SELECTED AND PLACED IN SUCH A MANNER AS TO INSURE ADEQUATE AND SAFE "SIGHT DISTANCE" FOR MOTORIST USING THE ROADS TO BE CONSTRUCTED WITHIN THIS SUBDIVISION.
11. A LANDSCAPING PLAN SHOWING THE TYPE AND LOCATION OF ALL PLANTINGS WITHIN THE ROAD RIGHT-OF-WAY SHALL BE PREPARED AND SUBMITTED FOR APPROVAL. THE ULTIMATE (OR MATURE) HEIGHT AND SPREAD OF THE VARIOUS TYPE OF PLANTINGS SHALL BE SPECIFIED ON THE PLAN.

ABBREVIATIONS

PROPOSED	PR.
EXISTING	EX.
DO NOT DISTURB	DND
TO BE REMOVED	TBR
FINISHED FLOOR ELEVATION	F.F.E.
TOP OF GRATE	TG
TOP OF LID	T/L
INVERT ELEVATION	I.E.
PROPERTY SERVICE CONNECTION	PSC
MANHOLE	MH
STORM MANHOLE	STRMH
SANITARY MANHOLE	SANMH
JUNCTION BOX	JB
CATCH BASIN	CB
TEMPORARY BENCHMARK	TBM
RIGHT OF WAY	R/W
PROPERTY LINE	PL
BUILDING	BLDG.
LANDSCAPE BUFFER AREA	L.B.A.
PROPOSED PARKING COUNTS	# SPACES
EXISTING PARKING COUNTS	# Ex. Spoces
TOP OF CURB	TOC
BASE OF CURB	BOC

LEGEND

EX. EDGE OF PAVEMENT	EX. FIRE HYDRANT
EX. CURB	EX. WATER VALVE
EX. CURB TO BE REMOVED	EX. IRRIGATION VALVE
EX. SHOULDER	EX. WATER SHUTOFF
EX. STRIPING	EX. WATER METER
EX. PROPERTY LINE	EX. MONITORING WELL
EX. PROPERTY LINE TO BE REMOVED	EX. WELL
EX. RIGHT OF WAY	EX. SANITARY SEWER
EX. EASEMENT	EX. 4" PSC
EX. FENCE	EX. 6" PSC
EX. WATER LINE	EX. CLEAN OUT
EX. PROPERTY SERVICE CONNECTION	EX. STORM MANHOLE
EX. SWALE	EX. CATCH BASIN TYPE 1
EX. GAS LINE	EX. CATCH BASIN TYPE 2
EX. OVERHEAD ELECTRIC LINE	EX. DOWN SPOUT
EX. UNDERGROUND ELECTRIC LINE	EX. TELEPHONE MANHOLE
EX. ELECTRIC LINE	EX. TELEPHONE PEDESTAL
EX. UNDERGROUND TELEPHONE LINE	EX. ELECTRIC MANHOLE
EX. FIBER OPTIC LINE	EX. TRANSFORMER
EX. CABLE LINE	EX. ELECTRIC METER
EX. LANDSCAPE BUFFER LINE	EX. LIGHT POLE
EX. TREE LINE	EX. POWER POLE
EX. MAJOR & MINOR CONTOURS	EX. GUYWIRE
EX. SANITARY SEWER	EX. GAS VALVE
EX. STORM SEWER	EX. GAS METER
EX. RIP RAP	EX. DRILL HOLE
EX. BUILDING	EX. TEST PIT
EX. CONCRETE	EX. SIGN
EX. TRACKS	EX. MAILBOX
EX. BUILDING SETBACK LINE	EX. BOLLARD
EX. 25' BUFFER AREA FOR BLUE LINE STREAM	EX. SHRUB
EX. FORM DISTRICT TRANSITION ZONE (FDTZ)	EX. TREE
EX. SPOT ELEVATION	EX. TREE TO BE REMOVED
PR. EDGE OF PAVEMENT	PR. HYDRANT
PR. CURB	PR. WATER VALVE
PR. SHOULDER	PR. IRRIGATION VALVE
PR. STRIPING	PR. WATER SHUTOFF
PR. PROPERTY LINE	PR. WATER METER
PR. SITE PROPERTY LINE	PR. MONITORING WELL
PR. RIGHT OF WAY	PR. WELL
PR. EASEMENT	PR. SANITARY SEWER
PR. FENCE	PR. 4" PSC
PR. WATER LINE	PR. 6" PSC
PR. PROPERTY SERVICE CONNECTION	PR. CLEAN OUT
PR. SWALE	PR. STORM MANHOLE
PR. GAS LINE	PR. CATCH BASIN TYPE 1
PR. OVERHEAD ELECTRIC LINE	PR. CATCH BASIN TYPE 2
PR. UNDERGROUND TELEPHONE LINE	PR. DOWN SPOUT
PR. FIBER OPTIC LINE	PR. TELEPHONE MANHOLE
PR. CABLE LINE	PR. TELEPHONE PEDESTAL
PR. LANDSCAPE BUFFER LINE	PR. TEST PIT
PR. TREE LINE	PR. ELECTRIC MANHOLE
PR. MAJOR & MINOR CONTOURS	PR. TRANSFORMER
PR. SANITARY SEWER	PR. ELECTRIC METER
PR. STORM SEWER	PR. LIGHT POLE
PR. ROOF DRAIN	PR. POWER POLE
PR. RIP RAP	PR. GUYWIRE
PR. SILT FENCE	PR. SIGN
PR. REINFORCED SILT FENCE	PR. GAS VALVE
PR. EROSION PROTECTION	PR. GAS METER
PR. LIMITS OF DISTURBANCE	PR. DRILL HOLE
PR. SAW CUT	PR. MAILBOX
PR. HEAVY DUTY PAVEMENT	PR. BOLLARD
PR. LIGHT DUTY PAVEMENT	TEMPORARY BENCHMARK
PR. BUILDING	PR. SHRUB
PR. CONCRETE	PR. TREE
PR. GRAVEL	
PR. TREE CANOPY PROTECTION AREA	
PR. DRAINAGE COMPOSITE BOUNDARIES	
PR. SPOT ELEVATION	

Revision	Date	Description	Detailed By	Chk'd By	Approved By
1	5-7-25	ADDENDUM 1	DJ	DJ	CJD

UTILITY NOTE:

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COORDINATES:

ENGINEER:
HERITAGE ENGINEERING, LLC
642 South 4th Street
Suite 100
Louisville, KY 40202
(502) 562-1412
(502) 562-1413 Fax
603 North Shore Drive
Unit 204
Jeffersonville, IN 47130
(812) 280-8201
(812) 280-8281 Fax

OWNER/DEVELOPER:
HARRISON REMC
1165 OLD FOREST RD
CORYDON, IN 47112

PROJECT:
CONSTRUCTION PLANS
FOR
HARRISON REMC
MAIN CAMPUS
1165 OLD FOREST ROAD
CORYDON, IN 47112
GENERAL NOTES

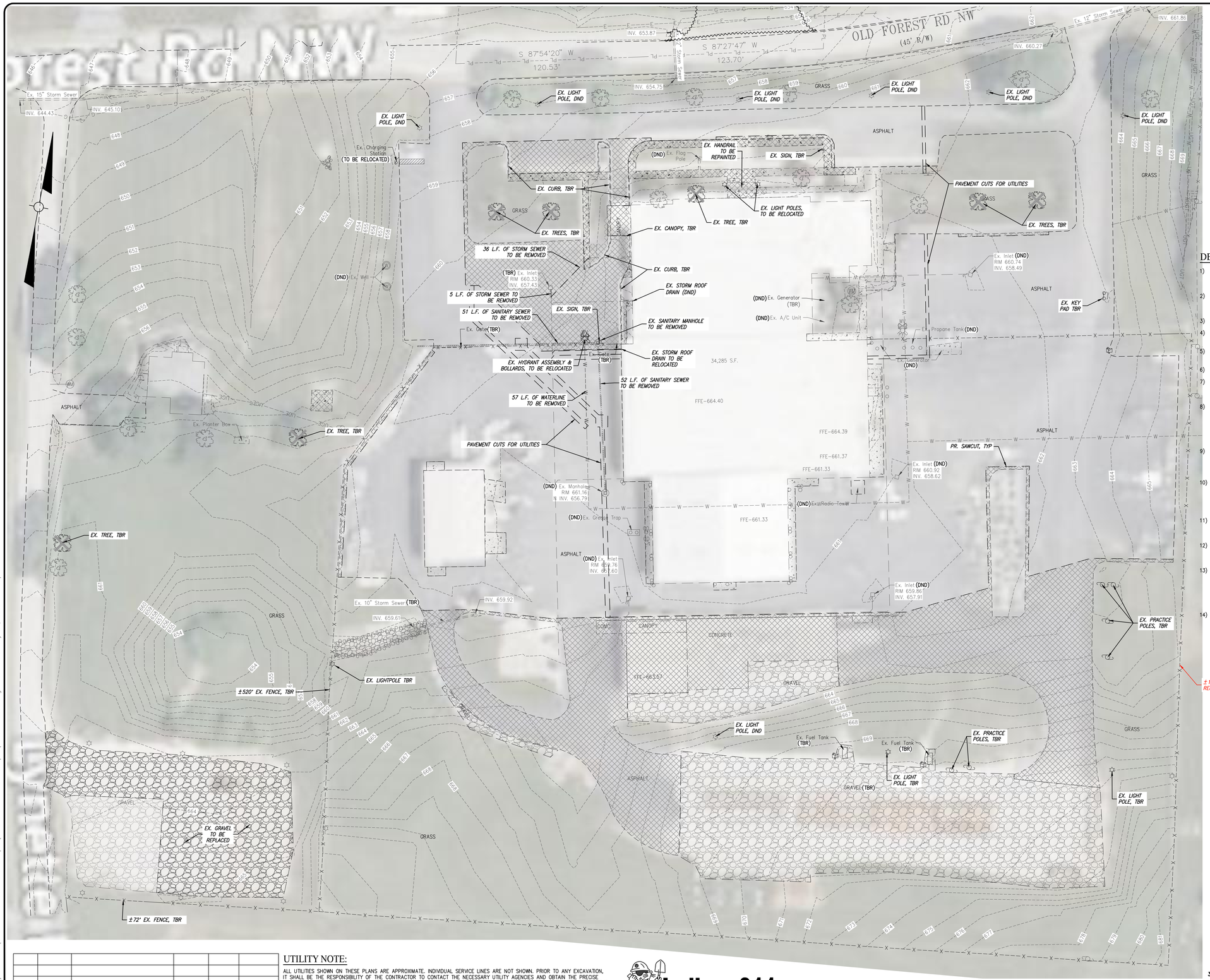
CASEY J. DEYOUNG
REGISTERED
NO. 11500081
STATE OF
INDIANA
PROFESSIONAL ENGINEER

JOB NO:	24071
HORIZ. SCALE:	N/A
VERTICAL SCALE:	N/A
DESIGNED BY:	DJ
DETAILED BY:	SDK
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DATE:	5/7/25

SHEET
C0.1
of 10

ADDENDUM 1

X:\AA-Projects-2024\24071 - Harrison REMC Campus\Construction - Main Campus\24071- COVER.dwg PLOT DATE: May 07, 2025 - 4:28pm





DEMOLITION NOTES:

1) THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE.
2) ABANDON AND FILL WITH GROUT, REMOVE AND REPLACE WITH CONTROLLED FILL, OR RELOCATE EX. UTILITIES WHICH WILL INTERFERE WITH THE NEW CONSTRUCTION. COORDINATE WITH UTILITY COMPANIES.
3) REMOVE ALL OTHER OBSTRUCTIONS AS REQUIRED WITHIN THE DEVELOPED AREA.
4) COMPLETELY REMOVE ANY EXISTING UNDERGROUND CISTERNS, VAULTS, TANKS, ETC. BACKFILL VOIDS WITH COMPACTED GRANULAR BACKFILL PER THE GEOTECHNICAL REPORT.
5) THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.
6) ALL TREES INSIDE THE LIMITS OF DISTURBANCE SHALL BE REMOVED.
7) SHOULD THE DRIPLINE OF A TREE FALL WITHIN THE LIMITS OF CONSTRUCTION BUT STILL BE PROPOSED TO REMAIN; IT SHALL BE CONSIDERED PRESERVED BUT NOT SAVED. EVERY EFFORT TO PRESERVE THE TREE SHOULD BE MADE.
8) CONSTRUCTION FENCING SHALL BE ERECTED AT THE EDGE OF THE AREA OF DEVELOPMENT PRIOR TO ANY GRADING OR CONSTRUCTION TO PROTECT THE EXISTING TREE STANDS AND THEIR ROOT SYSTEMS FROM COMPACTION. THE FENCING SHALL ENCLOSE THE ENTIRE AREA BENEATH THE TREE CANOPY AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETED. NO PARKING, MATERIAL STORAGE, OR CONSTRUCTION ACTIVITIES ARE PERMITTED WITHIN THE PROTECTED AREA.
9) CARE MUST BE TAKEN TO REMOVE THE ENTIRE ROOTBALL OF TREES TO BE REMOVED. THE RESULTING EXCAVATION MUST BE BACKFILLED WITH PROPERLY PLACED AND COMPACTED FILL TO AVOID LOCALIZED SOFT SPOTS THAT CAN COMPROMISE THE PERFORMANCE OF THE PROPOSED CONSTRUCTION.
10) IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO PERFORM ALL ENVIRONMENTAL SITE ASSESSMENTS AND PROPERLY REMOVE AND DISPOSE OF ANY HAZARDOUS MATERIALS ENCOUNTERED WITHIN EXISTING STRUCTURES. THESE MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, ASBESTOS. ALL FEDERAL, STATE AND LOCAL ABATEMENT REGULATIONS SHALL BE FOLLOWED.
11) ALL EPSC MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION OF ANY KIND. SEE SWPP PLAN. A COPY OF THE SWPP PLAN SHALL BE ON SITE AT ALL TIMES DURING CONSTRUCTION.
12) SHOULD THE CONTRACTOR DAMAGE EXISTING CONDITIONS OUTSIDE OF THE LIMITS OF DISTURBANCE BOUNDARIES THE COST FOR ALL REPAIRS SHALL BE BORNE BY THE CONTRACTOR.
13) COORDINATE ALL EARTHWORK AROUND THE EXISTING SINKHOLES WITH GEOTECHNICAL ENGINEER. ALTHOUGH REMEDIAL MEASURES WILL BE DETERMINED AT THE TIME OF EXCAVATION BASED ON ACTUAL CONDITIONS ENCOUNTERED, THEY ARE EXPECTED TO CONSIST OF EXCAVATION TO A THROAT IN THE BEDROCK SURFACE, SLOPING BACK THE SURROUNDING SOILS, AND INSTALLATION OF A GEOSYNTHETIC FILTER WRAPPED STONE ENVELOPE CAPPED WITH COMPACTED CLAY.
14) CONTRACTOR SHALL PROTECT EXISTING SINKHOLE AREA FROM BEING DISTURBED AND PREVENT SEDIMENT FROM ENTERING THE SINKHOLE ACCORDING TO THE EROSION CONTROL PLAN.

EX. CURB TO BE REMOVED
EX. ASPHALT & CONCRETE TO BE REMOVED
EX. TREE TO BE REMOVED
PR. LIMITS OF DISTURBANCE

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 INCH = 30FEET

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CORYDON, IN 47112
EXISTING CONDITIONS PLAN

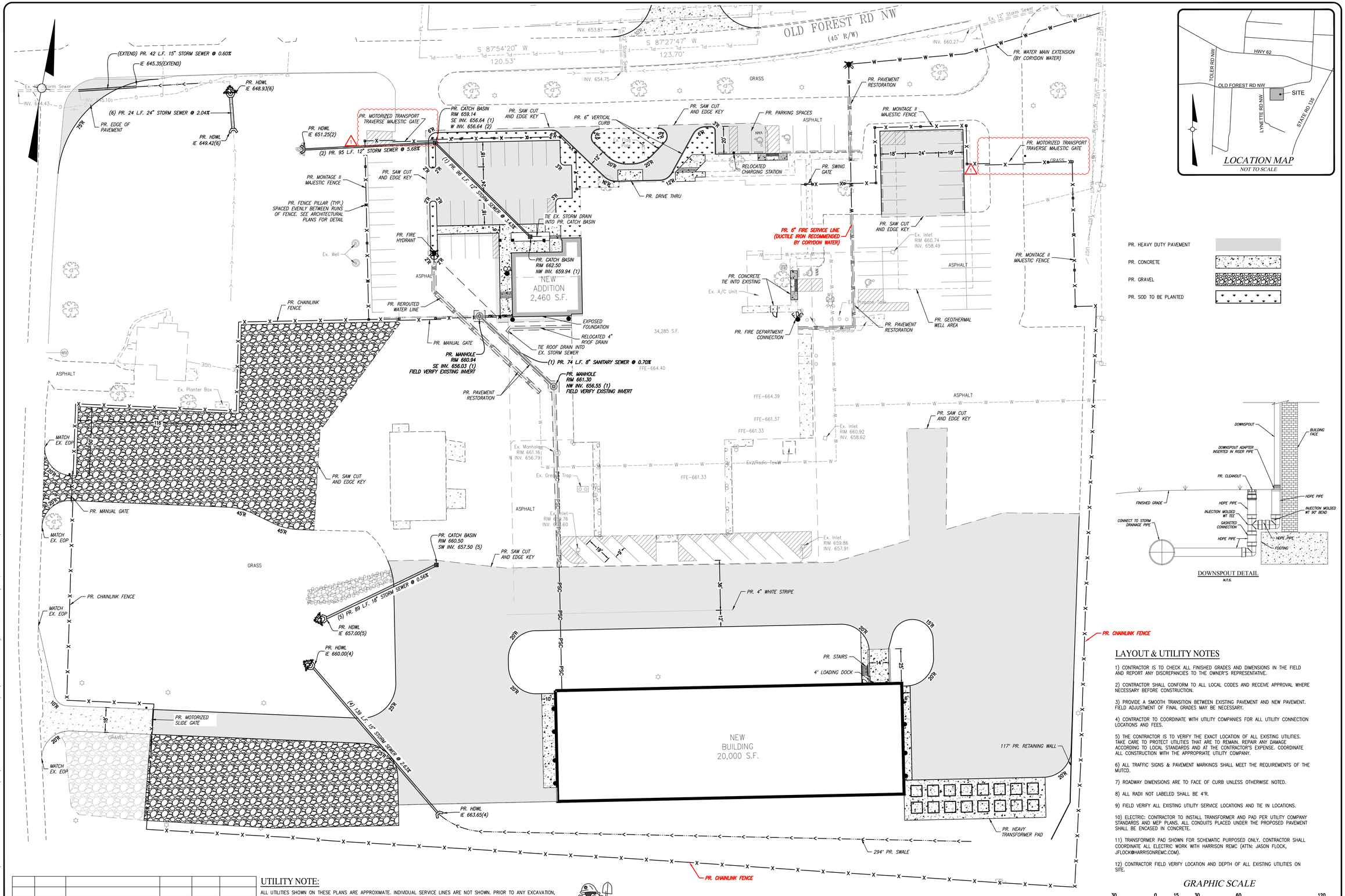
CASEY J. DEYOUNG
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C1.0
of 10

ADDENDUM 1

X:\AA-Projects-2024\24071 - Harrison REMC Campus\Construction - Main Campus\24071- DEMO.dwg PLOT DATE: May 07, 2025 - 4:28pm



PR. HEAVY DUTY PAVEMENT

PR. CONCRETE

PR. GRAVEL

PR. SOD TO BE PLANTED

DOWNSPOUT DETAIL
N.T.S.

LAYOUT & UTILITY NOTES

1) CONTRACTOR IS TO CHECK ALL FINISHED GRADES AND DIMENSIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.

2) CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.

3) PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY.

4) CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES FOR ALL UTILITY CONNECTION LOCATIONS AND FEES.

5) THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.

6) ALL TRAFFIC SIGNS & PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF THE MUTCD.

7) ROADWAY DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

8) ALL RADII NOT LABELED SHALL BE 4'R.

9) FIELD VERIFY ALL EXISTING UTILITY SERVICE LOCATIONS AND TIE IN LOCATIONS.

10) ELECTRIC: CONTRACTOR TO INSTALL TRANSFORMER AND PAD PER UTILITY COMPANY STANDARDS AND MEP PLANS. ALL CONDUITS PLACED UNDER THE PROPOSED PAVEMENT SHALL BE ENCASED IN CONCRETE.

11) TRANSFORMER PAD SHOWN FOR SCHEMATIC PURPOSED ONLY. CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK WITH HARRISON REMC (ATTN: JASON FLOCK, JFLOCK@HARRISONREMC.COM).

12) CONTRACTOR FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES ON SITE.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 INCH = 30FEET

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PROJECT:
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FOR
HARRISON REMC
MAIN CAMPUS
1165 OLD FORREST ROAD
CORYDON, IN 47112
SITE PLAN

CASEY J. DEYOUNG
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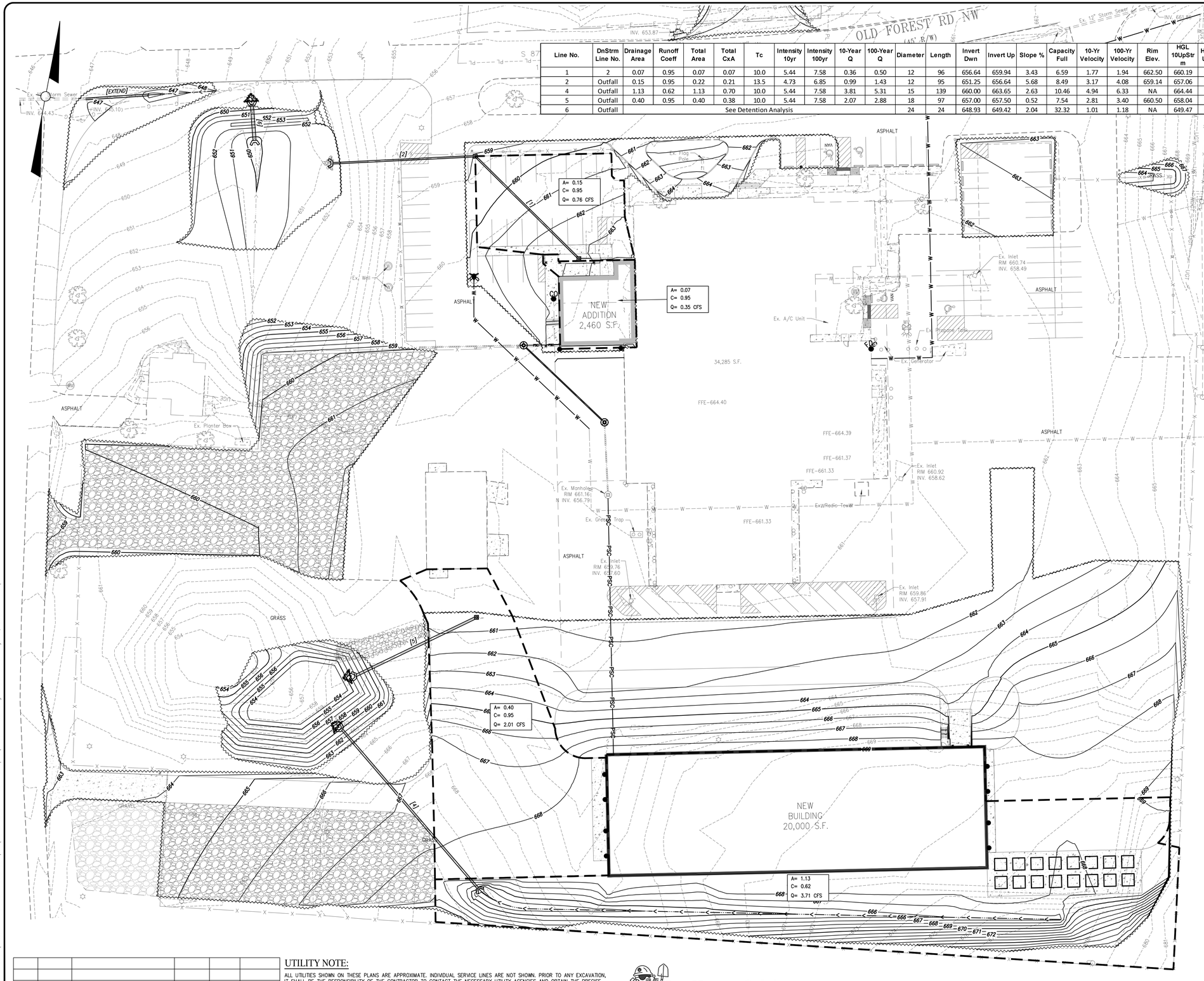
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SHEET
C2.0
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ADDENDUM 1

X:\AA-Projects-2024\24071 - Harrison REMC Campus\Construction - Main Campus\24071- SITE.dwg PLOT DATE: May 07, 2025 - 4:28pm

Line No.	DnStrm Line No.	Drainage Area	Runoff Coeff	Total Area	Total CxA	Tc	Intensity 10yr	Intensity 100yr	10-Year Q	100-Year Q	Diameter	Length	Invert Dwn	Invert Up	Slope %	Capacity Full	10-Yr Velocity	100-Yr Velocity	Rim Elev.	HGL 10UpStrm	HGL 100 UpStrm
1	2	0.07	0.95	0.07	0.07	10.0	5.44	7.58	0.36	0.50	12	96	656.64	659.94	3.43	6.59	1.77	1.94	662.50	660.19	660.23
2	Outfall	0.15	0.95	0.22	0.21	13.5	4.73	6.85	0.99	1.43	12	95	651.25	656.64	5.68	8.49	3.17	4.08	659.14	657.06	657.15
4	Outfall	1.13	0.62	1.13	0.70	10.0	5.44	7.58	3.81	5.31	15	139	660.00	663.65	2.63	10.46	4.94	6.33	NA	664.44	664.58
5	Outfall	0.40	0.95	0.40	0.38	10.0	5.44	7.58	2.07	2.88	18	97	657.00	657.50	0.52	7.54	2.81	3.40	660.50	658.04	658.14
6	Outfall	See Detention Analysis									24	24	648.93	649.42	2.04	32.32	1.01	1.18	NA	649.47	649.48





LOCATION MAP
NOT TO SCALE

GRADING NOTES

1) NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY THE OWNER'S REPRESENTATIVE.

2) TOPSOIL IS TO BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6".

3) ALL VEGETATED AREAS INCLUDING SLOPES ARE TO BE MULCHED AND SEEDED AS SOON AS POSSIBLE AFTER GRADING IS COMPLETED. CONSTRUCT SILT BARRIERS AS SHOWN ON DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS. FINAL GROUND COVER IN ALL VEGETATED AREAS TO BE SEEDED.

4) ALL NEW STRUCTURES AND EXISTING STRUCTURES SHALL HAVE SEDIMENT REMOVED PRIOR TO FINAL ACCEPTANCE.

5) ALL DIMENSIONS AND LOCATIONS OF TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE OWNER'S REPRESENTATIVE.

6) REPLACE SILT BARRIERS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

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9) THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.

10) 2% MAX SLOPE ON PAVEMENT IN HANDICAP PARKING SPACE AREA IN ALL DIRECTIONS.

11) IMPORTING FILL MATERIAL FROM AN OFF-SITE LOCATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE PROJECT ENGINEER IS STRICTLY PROHIBITED. IDENTIFICATION OF OFF-SITE BORROW LOCATIONS AND MATERIAL MUST BE COORDINATED AND DOCUMENTED WITH THE EROSION CONTROL PLAN.

WASTE DISPOSAL:

WASTE MATERIALS:
ALL WASTE MATERIALS THAT MAY LEACH POLLUTANTS (PAINT & PAINT CONTAINERS, CAULK TUBES, OIL/GREASE CONTAINERS, LIQUIDS OF ANY KIND, SOLUBLE MATERIALS, ETC.) WILL BE COLLECTED & STORED IN A COVERED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL & STATE SOLID WASTE MANAGEMENT REGULATIONS. CONSTRUCTION DEBRIS & OTHER WASTES THAT DO NOT LEACH POLLUTANTS WILL BE DEPOSITED IN A COVERED OR OPEN TOPPED DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF TWICE A WEEK OR MORE OFTEN IF NECESSARY, & THE TRASH WILL BE HAULED TO AN APPROVED LANDFILL. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ON SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE OFFICE TRAILER & THE INDIVIDUAL WHO MANAGES THE DAY TO DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE:
ALL WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES & THE INDIVIDUAL WHO MANAGES DAY TO DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE:
PORTABLE TOILETS WILL BE USED ON SITE FOR SANITARY WASTES. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION. PORTABLE UNITS WILL BE PLACED AWAY FROM STORM DRAIN INLETS, DITCHES, CREEKS & OTHER WATER BODIES.

SINKHOLE NOTE

1) REFERENCE GEOTECH REPORT BEFORE PERFORMING ANY WORK ON OR AROUND THE EXISTING SINKHOLES.

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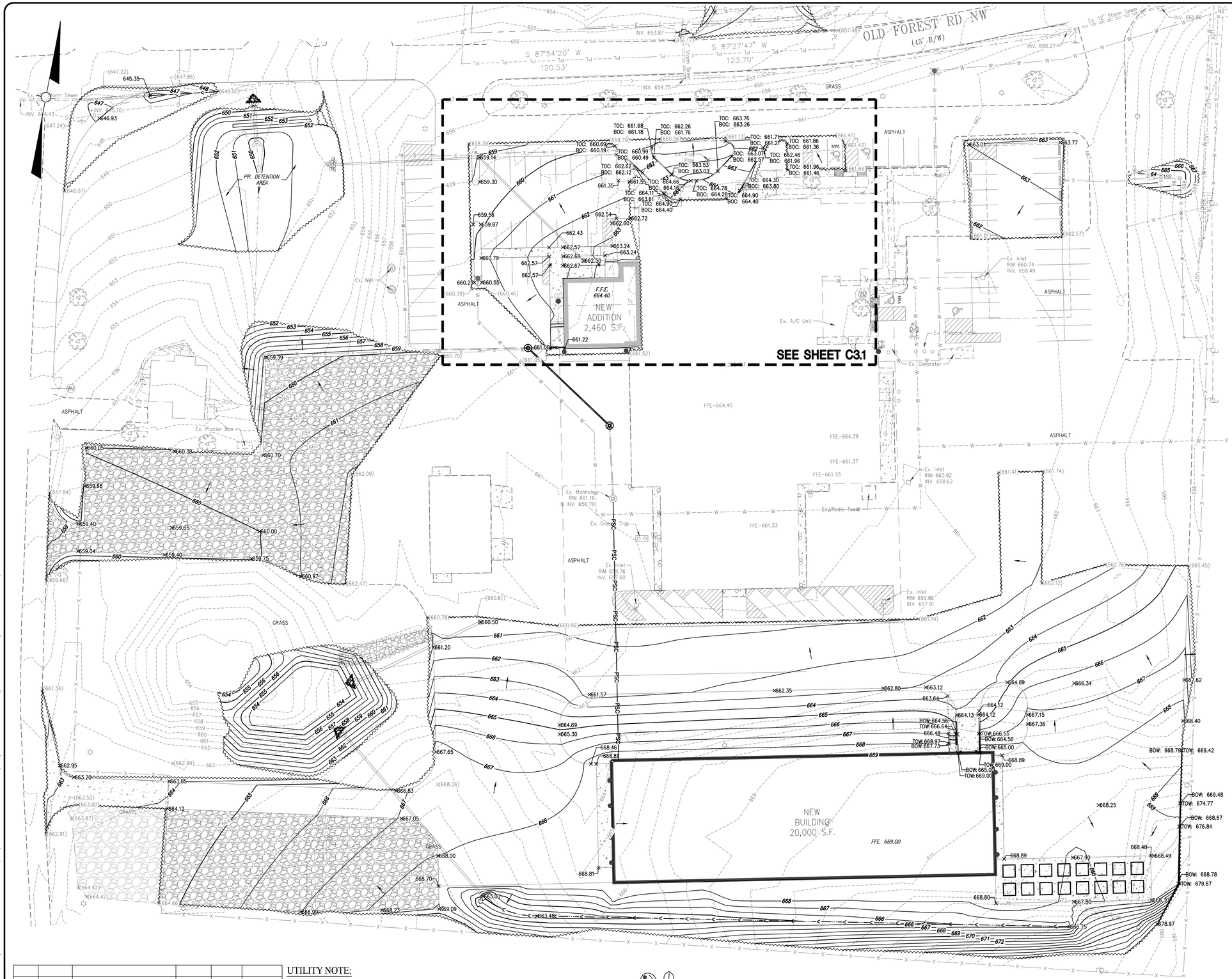
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12) CONTRACTOR SHALL UTILIZE SOIL IN THE BORROW AREA TO BALANCE THE SITE AS NECESSARY. SILT FENCE SHALL BE INSTALLED AROUND THE BORROW AREA AS NECESSARY TO PREVENT EROSION.

WASTE DISPOSAL:

WASTE MATERIALS:
ALL WASTE MATERIALS THAT MAY LEACH POLLUTANTS (PAINT & PAINT CONTAINERS, CAULK TUBES, OIL/GREASE CONTAINERS, LIQUIDS OF ANY KIND, SOLUBLE MATERIALS, ETC.) WILL BE COLLECTED & STORED IN A COVERED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL & STATE SOLID WASTE MANAGEMENT REGULATIONS. CONSTRUCTION DEBRIS & OTHER WASTES THAT DO NOT LEACH POLLUTANTS WILL BE DEPOSITED IN A COVERED OR OPEN TOPPED DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF TWICE A WEEK OR MORE OFTEN IF NECESSARY, & THE TRASH WILL BE HAULED TO AN APPROVED LANDFILL. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ON SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE OFFICE TRAILER & THE INDIVIDUAL WHO MANAGES THE DAY TO DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE:
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SANITARY WASTE:
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SINKHOLE NOTE

1) REFERENCE GEOTECH REPORT BEFORE PERFORMING ANY WORK ON OR AROUND THE EXISTING SINKHOLES.

Revision	Date	Description	Detailed By	Chk'd By	Approved By
1	5-7-25	ADDENDUM 1	DJ	DJ	CJD

UTILITY NOTE:

ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. PRIOR TO ANY EXCAVATION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE NECESSARY UTILITY AGENCIES AND OBTAIN THE PRECISE LOCATION OF THEIR FACILITIES. THE CONTRACTOR SHALL FAMILIARIZE THEMSELF WITH ALL UTILITY REQUIREMENTS AS SET OUT ON THE PLANS, IN THE SPECIFICATIONS, AND IN THE SPECIAL PROVISIONS.

THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER "HOLEY MOLEY" (TOLL FREE PHONE No. 1-800-382-5544) TWO (2) WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS & WATER LINES).

Indiana811
Know what's below. Call before you dig

TEMPORARY BENCHMARKS

TBM#1
DESCRIPTION:
ELEVATION:
COORDINATES:

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 INCH = 30FEET

ENGINEER:
HERITAGE ENGINEERING, LLC
642 South 4th Street
Suite 100
Louisville, KY 40202
(502) 562-1412
(502) 562-1413 Fax
603 North Shore Drive
Unit 204
Jeffersonville, IN 47130
(812) 280-8201
(812) 280-8281 Fax

OWNER/DEVELOPER:
HARRISON REMC
1165 OLD FOREST RD
CORYDON, IN 47112

PROJECT:
CONSTRUCTION PLANS
FOR
HARRISON REMC
MAIN CAMPUS
1165 OLD FOREST ROAD
CORYDON, IN 47112
GRADING PLAN

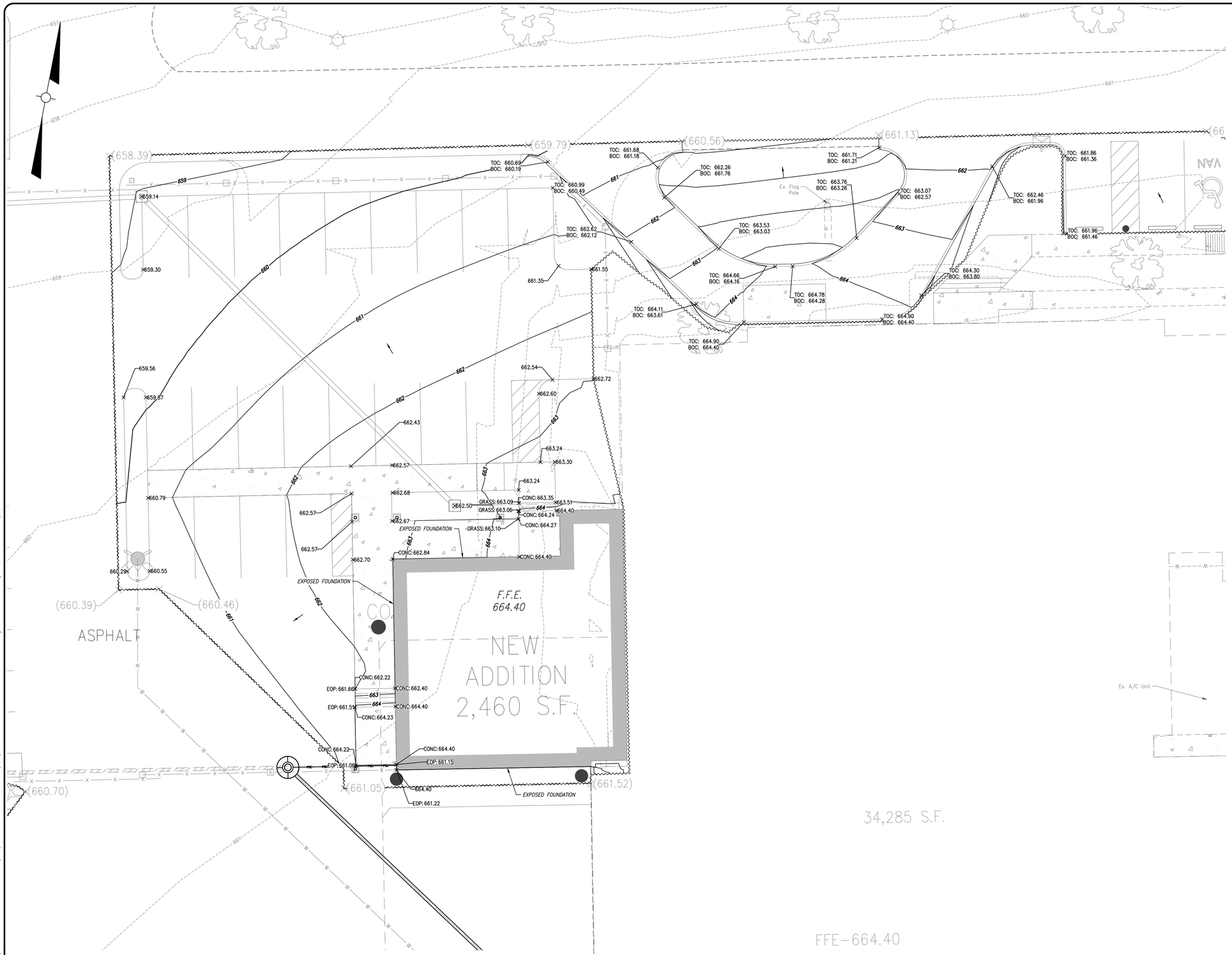
CASEY J. DEYOUNG
REGISTERED
NO. 11500081
STATE OF INDIANA
PROFESSIONAL ENGINEER

JOB NO:	24071
HORIZ. SCALE:	1"=30'
VERTICAL SCALE:	N/A
DESIGNED BY:	DJ
DETAILED BY:	SDK
CHECKED BY:	CJD
DATE:	5/7/25

SHEET
C3.0
of 10

ADDENDUM 1

X:\AA-Projects-2024\24071 - Harrison REMC Campus\Construction - Main Campus\24071- GRADING.dwg PLOT DATE: May 07, 2025 - 4:29pm





GRADING NOTES

1) NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY THE OWNER'S REPRESENTATIVE.

2) TOPSOIL IS TO BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6".

3) ALL VEGETATED AREAS INCLUDING SLOPES ARE TO BE MULCHED AND SEEDED AS SOON AS POSSIBLE AFTER GRADING IS COMPLETED. CONSTRUCT SILT BARRIERS AS SHOWN ON DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS. FINAL GROUND COVER IN ALL VEGETATED AREAS TO BE SEEDED.

4) ALL NEW STRUCTURES AND EXISTING STRUCTURES SHALL HAVE SEDIMENT REMOVED PRIOR TO FINAL ACCEPTANCE.

5) ALL DIMENSIONS AND LOCATIONS OF TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE OWNER'S REPRESENTATIVE.

6) REPLACE SILT BARRIERS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

7) THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.

8) THE CONTRACTOR IS TO CHECK ALL FINISHED GRADES, EXISTING GRADES AND DIMENSIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.

9) THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.

10) 2% MAX SLOPE ON PAVEMENT IN HANDICAP PARKING SPACE AREA IN ALL DIRECTIONS.

11) IMPORTING FILL MATERIAL FROM AN OFF-SITE LOCATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE PROJECT ENGINEER IS STRICTLY PROHIBITED. IDENTIFICATION OF OFF-SITE BORROW LOCATIONS AND MATERIAL MUST BE COORDINATED AND DOCUMENTED WITH THE EROSION CONTROL PLAN.

12) CONTRACTOR SHALL UTILIZE SOIL IN THE BORROW AREA TO BALANCE THE SITE AS NECESSARY. SILT FENCE SHALL BE INSTALLED AROUND THE BORROW AREA AS NECESSARY TO PREVENT EROSION.

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1	5-7-25	ADDENDUM 1	DJ	DJ	CJD

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1 INCH = 10 FEET

ENGINEER:
HERITAGE ENGINEERING, LLC
642 South 4th Street
Suite 100
Louisville, KY 40202
(502) 562-1412
(502) 562-1413 Fax
603 North Shore Drive
Unit 204
Jeffersonville, IN 47130
(812) 280-8201
(812) 280-8281 Fax

OWNER/DEVELOPER:
HARRISON REMC
1165 OLD FOREST RD
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PROJECT:
CONSTRUCTION PLANS
FOR
HARRISON REMC
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1165 OLD FOREST ROAD
CORYDON, IN 47112
BUILDING ADDITION GRADING PLAN

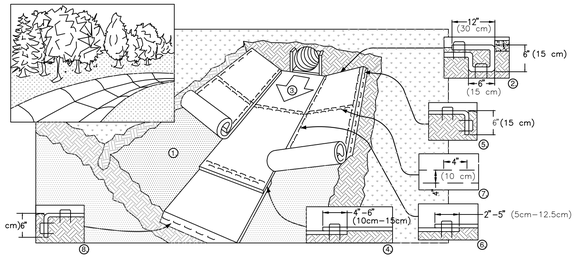
CASEY J. DEYOUNG
REGISTERED
NO. 11500081
STATE OF INDIANA
PROFESSIONAL ENGINEER

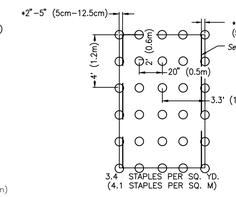
JOB NO:	24071
HORIZ. SCALE:	1" = 10'
VERTICAL SCALE:	N/A
DESIGNED BY:	DJ
DETAILED BY:	SDK
CHECKED BY:	CJD
DATE:	5/7/25

SHEET
C3.1
of 10

ADDENDUM 1

X:\AA-Projects-2024\24071 - Harrison REMC Campus\Construction - Main Campus\24071- BUILDING ADDITION GRADING.dwg PLOT DATE: May 07, 2025 - 4:29pm





"D" PATTERN

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

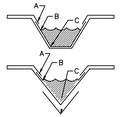
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES ≈ IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.

5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5cm-12.5cm) (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN ≈ WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.

7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL. 8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

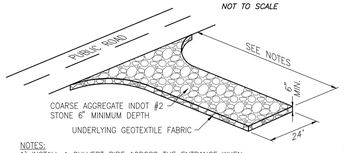


CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

EROSION CONTROL BLANKET INSTALLATION
NOT TO SCALE

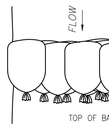


NOTES:
1) INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.

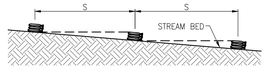
2) DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.

3) FOR SITES LESS THAN 5 ACRES, 100'.
FOR SITES GREATER THAN 5 ACRES, 150'.

STABILIZED CONSTRUCTION ENTRANCE
N.T.S

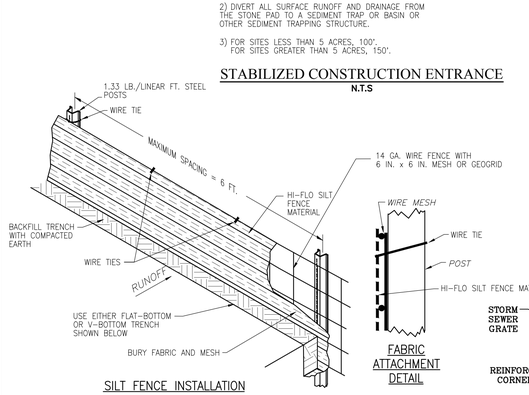


TYPICAL PLAN



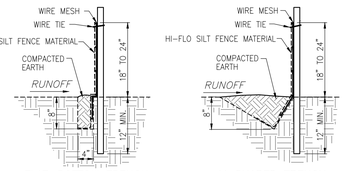
NOTE: SPACE SERIES OF VELOCITY CHECKS ALONG STREAM REACH. USE SPACING "S" SUCH THAT THE CRESTS OF DOWNSTREAM CHECKS ARE THE SAME ELEVATION AS THE TOE OF UPSTREAM CHECKS.

TYPICAL PROFILE



SILT FENCE INSTALLATION

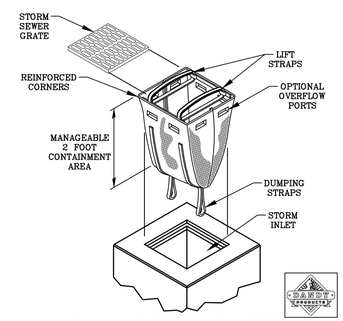
FABRIC ATTACHMENT DETAIL



FLAT-BOTTOM TRENCH SECTION

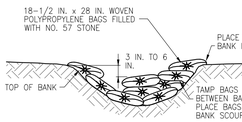
V-SHAPED TRENCH SECTION

REINFORCED SILT FENCE
N.T.S



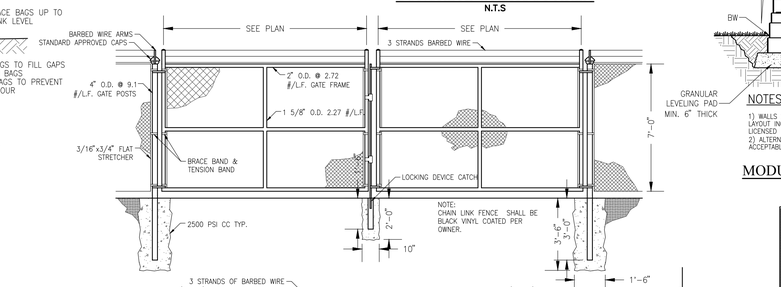
DETAIL OF INLET SEDIMENT CONTROL DEVICE

DANDY SACK
N.T.S

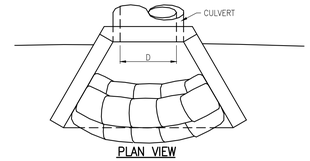


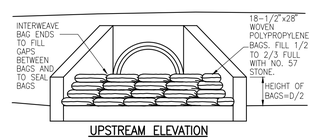
TYPICAL CROSS SECTION

STONE BAG CHECK DAM
N.T.S



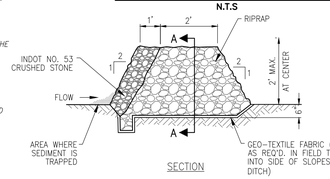
CONCRETE WASHOUT AREA
N.T.S





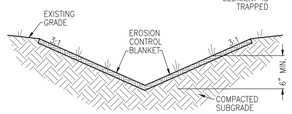
UPSTREAM ELEVATION

HEADWALL INLET PROTECTION
N.T.S

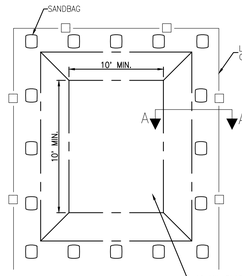


SECTION

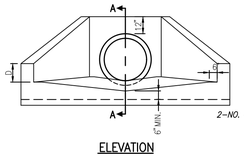
ROCK CHECK DAM
N.T.S



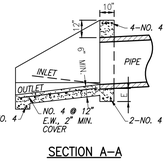
EARTH SWALE DETAIL
N.T.S



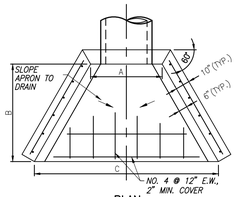
PLAN SECTION A–A



ELEVATION



SECTION A–A

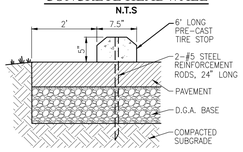


PLAN

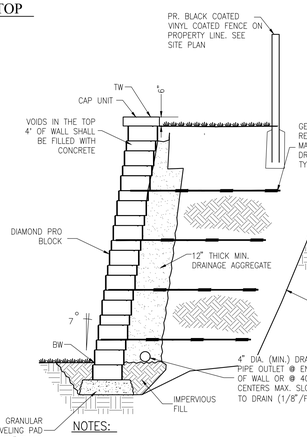
TABLE OF DIMENSIONS					
DIA.	A	B	C	D	E
12"	20"	30"	60"	6"	8"
15"	23"	36"	72"	6"	8"
18"	28"	42"	84"	9"	8"
24"	34"	48"	96"	9"	8"
30"	40"	54"	108"	12"	10"
36"	48"	60"	120"	15"	10"
42"	54"	66"	132"	18"	10"
48"	60"	72"	144"	21"	12"
54"	66"	78"	156"	24"	12"
60"	72"	84"	168"	24"	12"

NOTE: ALL EDGES OF EXPOSED CONCRETE TO BE CHAMFERED ONE INCH.

CONCRETE HEADWALL
N.T.S

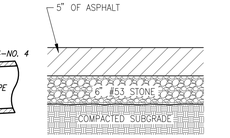


CONCRETE TIRE STOP
NO SCALE

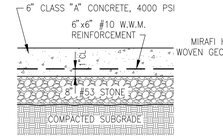


NOTES:
1) WALLS ARE TO BE DESIGN/BUILD. CONTRACTORS SUBMIT BIDS BASED ON LAYOUT INCLUDING ESTIMATED LABOR, MATERIALS, AND FINAL ENGINEERING COSTS. LICENSED ENGINEER IS TO PROVIDE FINAL WALL DESIGN.
2) ALTERNATE LARGER BLOCK WALL RETAINING SYSTEM OPTIONS SHALL BE ACCEPTABLE.

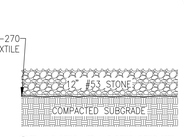
MODULAR RETAINING WALL
N.T.S



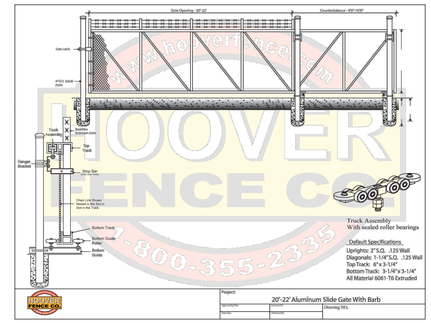
ASPHALT PAVEMENT
N.T.S.



CONCRETE PAVEMENT
N.T.S.



GRAVEL PAVEMENT
N.T.S.



HOOVER FENCE CO.
1-800-355-2335

MATERIAL PROPERTY DATA SHEET

WESTERN GREEN

BioNet® SC150BN™
Extended Term • Double Net • Coconut/Straw Matrix • Biodegradable • Erosion Control Blanket

DESCRIPTION

SC150BN Extended Term Erosion Control Blanket consists of 30% coconut fibers and 70% weed free agricultural straw manufactured into a continuous matrix. The coconut/straw matrix is confined by a biodegradable, jute/scrim net on top and bottom, mechanically (stitch) bound on two-inch centers with a biodegradable, cotton thread. SC150BN is intended for slope and channel erosion control applications requiring up to twenty-four months of functional longevity. The material is fully degradable. The net, thread, and the fiber matrix is biodegradable. Actual field longevity is dependent on soil and climatic conditions.

Each roll of SC150 is made in the USA and manufactured under Western Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

Material Content		
Matrix	Straw/Coconut	
Netting	Top & Bottom Net : Jute Scrim, Biodegradable, Leno Weave	Double Net
Thread	Biodegradable Cotton or Rayon	

Standard Roll Sizes			
Width	6 ft	(2.4 m)	16 ft (4.9 m)
Length	112 ft	(34.1 m)	563 ft (171.0 m)
Weight ± 10%	53 lb	(24.1 kg)	530 lb (241.0 kg)
Area	100 sy	(83.6 m²)	1000 SY (836.0 m²)

Material available in custom roll sizes

Approvals & Classification	
Classification	FHWA: Type 3.B / ECTC: Type 3.B
TTI Approvals	N/A
NTPEP Number	ECP-2020-01-019

Index Property	Test Method	Typical	
Thickness	ASTM D6525	0.30 in.	(8 mm)
Mass/Unit Area	ASTM D6566	8.5 oz/sy	(290 g/m²)
Tensile Strength – MD	ASTM D6818	210 lbs/ft	(3.1 kN/m)
Tensile Strength – TD	ASTM D6818	190 lbs/ft	(2.8 kN/m)
Elongation - MD	ASTM D6818	15%	
Elongation – TD	ASTM D6818	15%	
Density/Specific Gravity	D792	N/A	
Light Penetration	ASTM D6567	12%	
Biomass Improvement	ASTM D7322	550%	
Water Absorption	ASTM D1117	350%	

Design Parameters		
Property	Unvegetated	Vegetated¹
RUSLE C Factor²	0.03	N/A
Slope Maximum Gradient³	2H:1V	N/A
Permissible Shear Stress³	2.1 psf (100 Pa)	N/A
Permissible Velocity³	8.0 fps (2.4 m/s)	N/A

Manning's n Roughness (HEC-15)		
n_{max}	n_{typ}	n_{min}
0.045	0.036	0.033

1 Minimum Gradient is recommendation for typical installations.
2 Formula's threshold compliant with ASTM D6459/D6460 but generalized for typical applications.
3 Vegetated values dependent on established stand of vegetation.

Disclaimer: The information contained herein may represent product index data, performance ratings, bench scale testing or other material utility quantifications. Each representation may have unique utility and limitations. Every effort has been made to ensure accuracy, however, no warranty is claimed and no liability is assumed for the use of this information. Western Green makes no warranties, expressed or implied, as to the fitness of these values for any particular application or interpretation. While testing methods are provided for some values, it is the responsibility of the user to determine the suitability and the improved value of intended use. For further information, please feel free to contact Western Green.

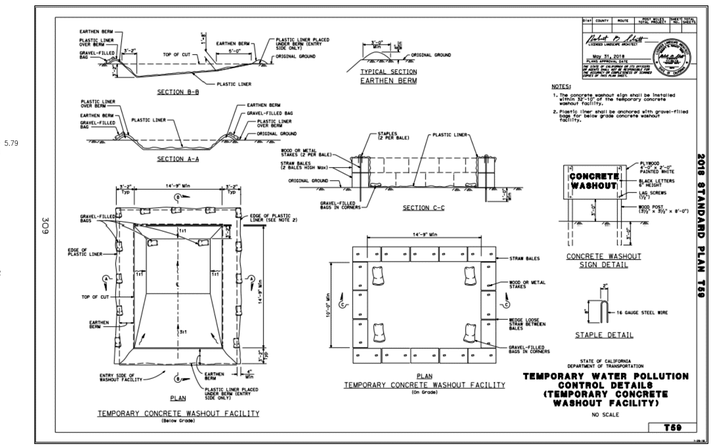
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NORTH AMERICAN GREEN

Western Green • 4659 E. Boonville-New Harmony Rd. Evansville, IN 47725 • (800) 772-2040

westerngreen.com

Rev. 4.2023
Scan for additional and updated product information, or click here.



NOTES:
1. The temporary washout sign shall be installed within 30' of the temporary concrete washout facility.
2. Plastic liner shall be anchored with gravel-filled bags before grade concrete washout facility.

1	5-7-25	ADDENDUM 1	DJ	DJ	CJD
Revision	Date	Description	Detailed By	Chk'd By	Approved By

UTILITY NOTE:

ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. PRIOR TO ANY EXCAVATION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE NECESSARY UTILITY AGENCIES AND OBTAIN THE PRECISE LOCATION OF THEIR FACILITIES. THE CONTRACTOR SHALL FAMILIARIZE THEMSELF WITH ALL UTILITY REQUIREMENTS AS SET OUT ON THE PLANS, IN THE SPECIFICATIONS, AND IN THE SPECIAL PROVISIONS.

THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER "HOLEY MOLEY" (TOLL FREE PHONE No. 1-800-382-5544) TWO (2) WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS & WATER LINES).

Indiana811
Know what's below. Call before you dig

CHAIN LINK FENCE AND GATE
N.T.S

TEMPORARY BENCHMARKS

TBM#1
DESCRIPTION:
ELEVATION:
COORDINATES:

ENGINEER:
HERITAGE ENGINEERING, LLC
642 South 4th Street
Suite 100
Louisville, KY 40202
(502) 562-1412
(502) 562-1413 Fax

OWNER/DEVELOPER:
HARRISON REMC
1165 OLD FOREST RD
CORYDON, IN 47112

PROJECT:
CONSTRUCTION PLANS
FOR
HARRISON REMC
MAIN CAMPUS
1165 OLD FOREST ROAD
CORYDON, IN 47112
DETAIL SHEET

CASEY J. DEYOUNG
REGISTERED
NO. 11500081
STATE OF INDIANA
PROFESSIONAL ENGINEER

JOB NO:	24071
HORIZ. SCALE:	N/A
VERTICAL SCALE:	N/A
DESIGNED BY:	DJ
DETAILED BY:	SDK
CHECKED BY:	CJD
DATE:	5/7/25

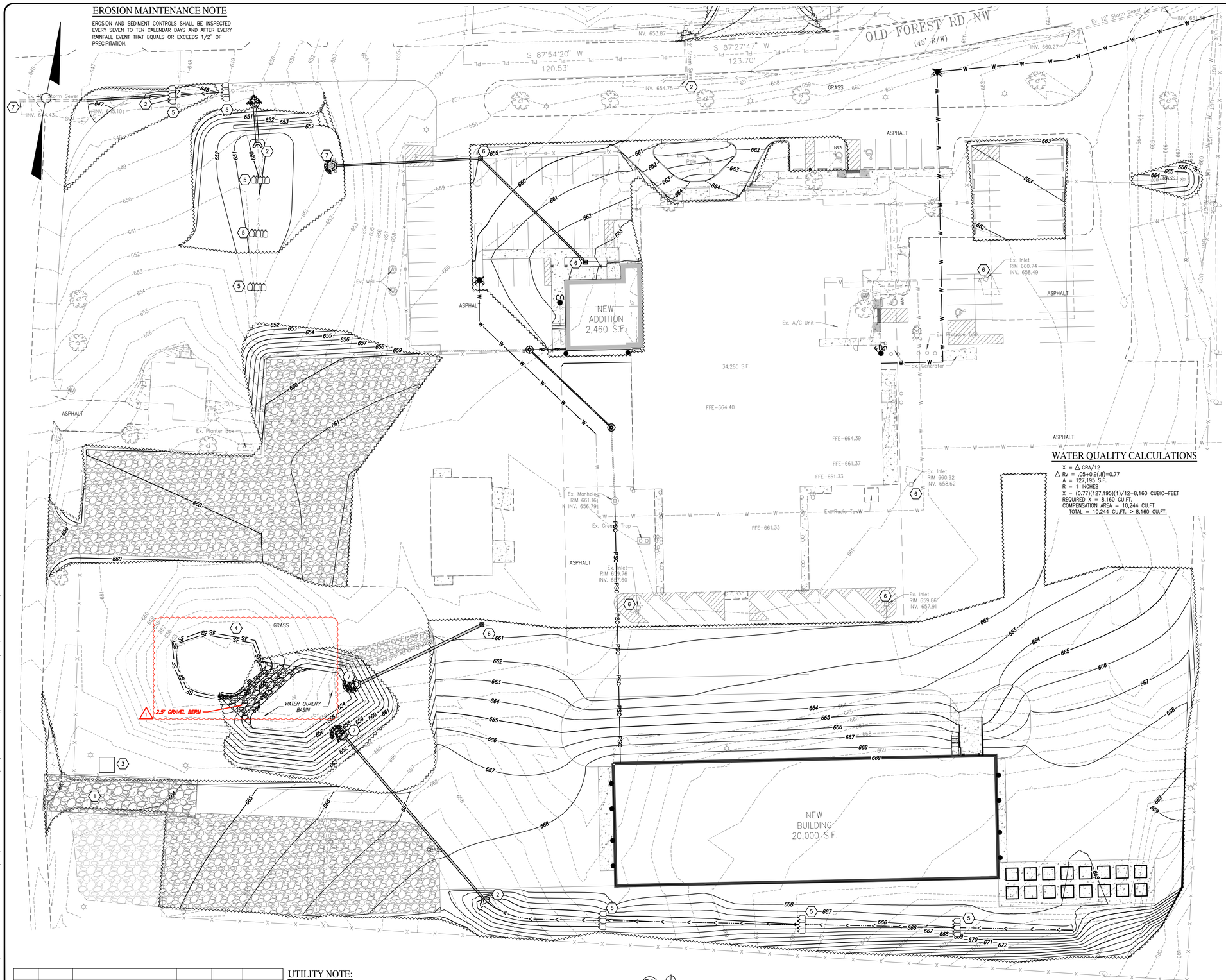
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of 10

ADDENDUM 1

X:\A-Projects-2024\24071 - Harrison REMC Campus\Construction - Main Campus\24071- DETAILS.dwg PLOT DATE: May 07, 2025 - 4:29pm

EROSION MAINTENANCE NOTE

EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED EVERY SEVEN TO TEN CALENDAR DAYS AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 1/2" OF PRECIPITATION.





LOCATION MAP
NOT TO SCALE

PHASING & SEQUENCING

PHASE I (BEFORE DEMOLITION & SITE CLEARING.)

1. CONTACT SWCD FOR A PRE-CONSTRUCTION MEETING BEFORE INSTALLING ANY EROSION CONTROL.
2. CLEAR ONLY AREA NECESSARY FOR CONSTRUCTION ENTRANCE & CONCRETE WASHOUT AREA - COORDINATE WITH OWNER.
3. CONSTRUCT CONSTRUCTION ENTRANCE.
4. CONSTRUCT SILT FENCES AROUND EXISTING SINKHOLE.

PHASE II (CLEARING & GRADING OF SITE.)

1. BEGIN CLEARING, SINKHOLE COMPENSATION GRADING, TREE REMOVAL, & DEMOLISHING OF THE SITE INSIDE PHASE II DISTURBANCE AREAS.
2. BEGIN GRADING OF THE SITE INSIDE DISTURBANCE AREA, CREATING AND MAINTAINING A POSITIVE FLOW TO EXISTING SINKHOLE.
3. DISTURBED AREAS WHERE CONSTRUCTION WILL CEASE FOR 7 DAYS WILL BE STABILIZED WITH EROSION CONTROLS.
4. INSTALL EROSION CONTROL BLANKETS ON ALL SLOPES STEEPER THAN 20% DISTURBED.
5. SEDIMENT CONTROL STRUCTURES SHALL BE CLEANED ONCE DEPOSITED SEDIMENT REACHES 1/3 THE HEIGHT OF THE STRUCTURE.

PHASE III (INFRASTRUCTURE INSTALLATION.)

1. INSTALL OTHER STORM PIPES & INLET PROTECTION ON STORM STRUCTURES AS SITE IS BROUGHT TO GRADE.
2. INSTALL SITE UTILITIES.
3. ALL BMP'S NEED TO BE MAINTAINED AFTER EVERY EVENT GREATER THAN 0.5 INCH OF PRECIPITATION.

PHASE IV (COMPLETE DEMOLITION, GRADING OF SITE)

1. COMPLETE GRADING OF SLAB AREAS WITH A PROCESS THAT WILL MAINTAIN POSITIVE FLOW TO BMP'S.
2. PERMANENT STABILIZED AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
3. COMPLETE UTILITY INSTALLATION.

PHASE V (FINALIZE SITE FOR PAVEMENT ACTIVITIES, PAVEMENT & FINAL STABILIZATION.)

1. PREPARE PAVEMENT SUBGRADE.
2. FINALIZE SITE FOR PAVEMENT ACTIVITIES.
3. INSTALL CONCRETE & GRAVEL PAVEMENT.
4. REMOVE ALL REMAINING TEMPORARY CONTROL BMP'S AND STABILIZE ANY AREAS DISTURBED BY THESE REMOVALS.
5. PREPARE FINAL SEEDING AND LANDSCAPING.
6. MONITOR STABILIZED AREAS UNTIL FINAL STABILIZATION.
7. ONCE CONSTRUCTION HAS BEEN COMPLETED AND SITE HAS BEEN STABILIZED REMOVE SILT FENCES FROM AROUND SINKHOLE.
8. ONCE GRASS HAS BEEN ESTABLISHED IN DITCHES, REMOVE STONE BAGS AND ROCK DITCH CHECK.

WATER QUALITY CALCULATIONS

X = △ CRA/12
△ Rv = .05+0.9(.8)=0.77
A = 127,195 S.F.
R = 1 INCHES
X = (0.77)(127,195)(1)/12=8,160 CUBIC-FEET
REQUIRED X = 8,160 CU.FT.
COMPENSATION AREA = 10,244 CU.FT.
TOTAL = 10,244 CU.FT. > 8,160 CU.FT.

OWNER

HARRISON REMC
1165 OLD FOREST ROAD
CORYDON, IN 47112

AREA OF DISTURBANCE

4.08 ACRES

EROSION CONTROL NOTES

1) THE APPROVED EROSION CONTROL PLAN SHALL BE IMPLEMENTED PRIOR TO ANY LAND DISTURBING ACTIVITY ON THE CONSTRUCTION SITE. ANY MODIFICATIONS TO THE APPROVED EROSION CONTROL PLAN MUST BE REVIEWED AND APPROVED BY LOCAL GOVERNING AGENCY.

2) ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO ADJACENT RETAIL PARKING & PUBLIC ROADWAYS. SOIL TRACKED ONTO THE PARKING & ROADWAY SHALL BE REMOVED DAILY.

3) SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES, AND CATCH BASINS. SOIL STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH USE OF SILT FENCE.

4) WHERE CONSTRUCTION OR LAND DISTURBANCE ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICABLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE ACTIVITY HAS CEASED.

5) SEDIMENT LADEN GROUND WATER ENCOUNTERED DURING THE TRENCHING, BORING, OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, AND/OR CATCH BASIN.

6) SPREAD EXCESS DIRT ON SITE IN THE AREA DELINEATED ON THE PLANS AND MAINTAIN EXISTING DRAINAGE PATTERNS IN THE AREA.

7) EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED EVERY 7-10 CALENDAR DAYS AND AFTER EVERY REAINFALL EVENT THAT EQUALS OR EXCEEDS 1/2" OF PRECIPITATION.

EROSION CONTROL DETAILS

	TYPE	DETAIL
1	TEMPORARY CONSTRUCTION ENTRANCE	SEE DETAIL SHEET
2	HEADWALL INLET PROTECTION	SEE DETAIL SHEET
3	CONCRETE WASHOUT AREA	SEE DETAIL SHEET
4	REINFORCED SILT FENCE	SEE DETAIL SHEET
5	STONE BAG CHECK DAM	SEE DETAIL SHEET
6	DANDY SACK	SEE DETAIL SHEET
7	ROCK CHECK DAM	SEE DETAIL SHEET

GRAPHIC SCALE

30 0 15 30 60 120
(IN FEET)
1 INCH = 30FEET

Revision	Date	Description	Detailed By	Chk'd By	Approved By
1	5-7-25	ADDENDUM 1	DJ	DJ	CJD

UTILITY NOTE:

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Indiana811 Know what's below. Call before you dig

TEMPORARY BENCHMARKS

TBM#1 DESCRIPTION:
ELEVATION:
COORDINATES:

LEGEND

EROSION CONTROL BLANKET

ENGINEER:
HERITAGE ENGINEERING, LLC
642 South 4th Street
Suite 100
Louisville, KY 40202
(502) 562-1412
(502) 562-1413 Fax
603 North Shore Drive
Unit 204
Jeffersonville, IN 47130
(812) 280-8201
(812) 280-8281 Fax

OWNER/DEVELOPER:
HARRISON REMC
1165 OLD FOREST RD
CORYDON, IN 47112

PROJECT:
CONSTRUCTION PLANS
FOR
HARRISON REMC
MAIN CAMPUS
1165 OLD FOREST ROAD
CORYDON, IN 47112
EROSION CONTROL PLAN

CASEY J. DEYOUNG
REGISTERED
NO. 11500081
STATE OF
INDIANA
PROFESSIONAL ENGINEER

JOB NO:	24071
HORIZ. SCALE:	1"=30'
VERTICAL SCALE:	N/A
DESIGNED BY:	DJ
DETAILED BY:	SDK
CHECKED BY:	CJD
DATE:	5/7/25

SHEET
ER1
of 10

ADDENDUM 1

X:\A-Projects-2024\24071 - Harrison REMC Campus\Construction - Main Campus\24071- ER.dwg PLOT DATE: May 07, 2025 - 4:29pm

SOIL EROSION CONTROL NOTES

ALL EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL STANDARDS. AN EPA EQUIVALENT NOTICE OF INTENT LETTER SHALL BE POSTED IN THE JOB TRAILER AT ALL TIMES. THIS SITE SHALL BE PROTECTED BY MEANS DESCRIBED IN THE ACCOMPANYING PLANS. IF THERE ARE ANY QUESTIONS REGARDING EROSION CONTROL MEASURES, THE CIVIL ENGINEER OF RECORD MUST BE CONTACTED.

A COPY OF THIS SHEET AND THE EROSION CONTROL PLAN MUST BE KEPT ON-SITE THROUGH THE DURATION OF CONSTRUCTION ACTIVITY. ANY CHANGES MADE TO THIS PLAN MUST BE NOTED, DATED, AND INITIALED BY THE GENERAL CONTRACTOR.

I. GENERAL

THE INTENT OF THIS PLAN IS TO CONTROL EROSION THAT MAY RESULT IN EXCAVATION AND INSTALLATION OF THE PROPOSED INFRASTRUCTURE. THE ITEMS INDICATED ARE THE ENGINEER'S BEST ESTIMATE OF REQUIREMENTS; MORE CONTROL MAY BE NEEDED DEPENDING ON SITE CONDITIONS, SEASON, ETC. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY TO COMPLY WITH THIS INTENT. ALL CHANGES TO THE SWPPP MUST BE NOTED.

A. BEST MANAGEMENT PRACTICES PLAN, WITH ALL SEDIMENT AND EROSION CONTROL PLANS, SHALL BE KEPT ON-SITE WITH COPIES OF ALL INSPECTION REPORTS.
B. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO ANY LAND DISTURBING ACTIVITY TAKING PLACE.

II. IMPLEMENTATION

A. PERMANENT SURFACE STABILIZATION SPECIFICATION

IN ADDITION TO THE BEST MANAGEMENT PRACTICES CONCERNING EROSION CONTROL, ONCE CONSTRUCTION HAS BEEN COMPLETED, THE AREA SHALL BE PERMANENTLY STABILIZED. PERMANENT SEEDING TO BE KENTUCKY 31 FESCUE OR APPROVED ALTERNATIVE.

IN AREAS OF REMEDIATION, SEVERELY ERODED AND UNSTABLE AREAS OF THE SITE, INCLUDING ANY STEEPLY SLOPING AREAS SHALL BE EVALUATED AND APPROPRIATE STABILIZATION METHODS DETERMINED. UTILIZING METHODS BEYOND SEED AND STRAW (I.E. EROSION CONTROL BLANKETS) WILL LIKELY RESULT IN BETTER STABILIZATION RESULTS. THE CONTRACTOR IS TO US HIS BEST JUDGEMENT IN DECIDING THE BEST METHOD.

B. IF SEED AND STRAW ARE CHOSEN FOR STABILIZATION, SEED AND STRAW SHALL BE BROADCAST EITHER BY HAND OR APPROVED SOWING EQUIPMENT, UNIFORMLY OVER THE AREA, THE SEED SHALL BE DRILLED OR RAKED A DEPTH OF APPROXIMATELY ONE HALF INCH (1/2") AND THE SEEDED AREAS SHALL BE LIGHTLY RAKED TO COVER THE SEED. ALL RIDGES SHALL BE SMOOTHED OUT AND ALL FURROWS AND WHEEL TRACKS, LIKELY TO DEVELOP INTO WASHES, SHALL BE REMOVED.

SOIL AMENDMENTS – SELECT MATERIALS AND RATES AS DETERMINED BY A SOIL TEST OR FERTILIZER SHALL BE APPLIED AT THE RATE OF 600 POUNDS OF 12-12-12 ANALYSIS, OR EQUIVALENT PER ACRE AND SHALL BE INCORPORATED INTO THE SOIL AT A DEPTH OF AT LEAST TWO (2) INCHES. THE INCORPORATION OF THE FERTILIZER MAY BE A PART OF THE TILLAGE OPERATION AND SHALL BE APPLIED NOT LESS THAN 24 HOURS NOR MORE THAN 48 HOURS BEFORE THE SEED IS SOWN.

AFTER THE SEED HAS BEEN SOWN, THE SEEDED AREAS SHALL BE MULCHED WITH CLEAN STRAW AT THE RATE OF ONE (1) BALE PER 1,000 SQUARE FEET (APPROXIMATELY TWO INCHES LOOSED DEPTH) AND THOROUGHLY WATERED. THE SEED BEDS SHALL BE ANCHORED TO PREVENT REMOVAL BY WIND OR WATER OR COVERED WITH MANUFACTURED EROSION CONTROL BLANKET.

THE CONTRACTOR SHALL APPLY THE SPECIFIED VEGETATION WITH THE CONSIDERATION OF SEASONAL PLANTING TIMES. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES THAT WILL ALLOW FINAL SEEDING OF THE SITE TO BE COMPLETED IN THE LATE FALL OR EARLY SPRING. IF CONSTRUCTION ACTIVITIES DO NOT ALLOW FINAL SEEDING TO OCCUR AT THE OPTIMAL TIME, THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO SECURE THE SITE FROM POTENTIAL PROBLEMS.

C. IF EROSION CONTROL BLANKETS ARE CHOSEN FOR STABILIZATION, SELECT THE TYPE AND WEIGHT OF EROSION CONTROL BLANKET TO FIT THE SITE CONDITIONS (E.G., SLOPE, CHANNEL, FLOW VELOCITY) PER THE MANUFACTURER'S SPECIFICATIONS.
PREPARE THE SEEDBED, ADD SOIL AMENDMENTS, AND PERMANENTLY SEED (SEE PERMANENT SEEDING CHART THIS SHEET) THE AREA IMMEDIATELY FOLLOWING SEEDBED PREPARATION.
LAY EROSION CONTROL BLANKETS ON THE SEEDED AREA SO THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL WITH EACH UP-SLOPE OR UP-STREAM BLANKET OVERLAPPING THE DOWN-SLOPE OR DOWN-STREAM BLANKET BY AT LEAST EIGHT INCHES, OR FOLLOW MANUFACTURER'S RECOMMENDATIONS.
TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SLIT TRENCH), BACKFILL WITH SOIL AND TAMP DOWN. IN CERTAIN APPLICATIONS, THE MANUFACTURER MAY REQUIRE ADDITIONAL CHECK SLOTS AT SPECIFIC LOCATIONS DOWN SLOPE FROM THE UPPERMOST EDGE OF THE UPPER BLANKETS.
ANCHOR THE BLANKETS IN PLACE BY DRIVING STAPLES, PINS, OR STAKES THROUGH THE BLANKET AND INTO THE UNDERLYING SOIL. FOLLOW AN ANCHORING PATTERN APPROPRIATE FOR THE SITE CONDITIONS AND AS RECOMMENDED BY THE MANUFACTURER.
CONTRACTOR TO MAINTAIN EROSION CONTROL BLANKET PER THE INDIANA STORM WATER QUALITY MANUEL INSTRUCTIONS.

D. CONTRACTOR SHALL REMOVE ANY UNSUITABLE MATERIAL FROM THE SITE LEFT FROM THE EROSION CONTROL MEASURES.

E. PERMANENT SEEDING SHALL BE APPLIED IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL. PERMANENT SEEDING CHARTS CAN BE FOUND ON THIS SHEET.

F. FINAL STABILIZATION WILL BE CONSIDERED ACHIEVED WHEN PERENNIAL VEGETATIVE COVER HAS A DENSITY OF SEVENTY PERCENT (70%) ON ALL UNPAVED AREAS OR AN EQUIVALENT PERMANENT STABILIZATION MEASURE HAVE BEEN EMPLOYED. IMPLEMENTATION AND MAINTENANCE WILL BE ACCORDING TO SECTIONS C2 AND C5 – THIS SHEET.

GENERAL SEEDING

SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING						**********	**********	**********	**********			
DORMANT SEEDING												
TEMPORARY SEEDING						**********	**********	**********				
SODDING						**********	**********	**********				
MULCHING												

********** DENOTES IRRIGATION NEED DURING THOSE DESIGNATED MONTHS

G. INSPECTION AND MAINTENANCE INSTRUCTIONS:

THE FOLLOWING WILL APPLY TO MAINTAINING EROSION AND SEDIMENT CONTROL FACILITIES:

1. ALL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSPECTED REGULARLY TO ENSURE THEY ARE EFFECTIVE IN THE EVENT OF RAINFALL. MEASURES SHALL BE INSPECTED ONCE A WEEK (MINIMUM) AND WITHIN TWENTY-FOUR (24) HOURS AFTER EACH RAINFALL EVENT. ANY DAMAGED OR NONFUNCTIONAL FACILITY SHALL BE REPAIRED OR REPLACED IMMEDIATELY. WEEKLY INSPECTION REPORTS SHALL BE KEPT ON FILE IN THE CONSTRUCTION TRAILER.
2. SILT FENCE BARRIERS SHALL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES ONE-THIRD THE HEIGHT OF THE BARRIER.
3. SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RE-SEEDED AS NECESSARY.
4. IF ANY FACILITY IS DAMAGED DURING MAINTENANCE, OR OTHERWISE, THE DAMAGED SHALL BE REPAIRED IMMEDIATELY.
5. IF SILT HAS OBSTRUCTED THE SEDIMENT CONTROL FACILITY TO THE POINT OF ELIMINATING ALL FILTERING EFFECTIVENESS, THE STRUCTURE SHALL BE REMOVED AND REPLACED WITH A NEW STRUCTURE IN ACCORDANCE WITH THE ASSOCIATED DETAIL.
6. TIRES SHALL BE WASHED PRIOR TO ENTERING A PAVED ROADWAY.

H. MAINTAINING EFFECTIVENESS:

CONTRACTOR SHALL INSPECT OVERALL PERFORMANCE OF EROSION AND SEDIMENT CONTROL FACILITIES AND AREAS DOWNSTREAM. IF SILT IS APPARENT DOWNSTREAM FROM STRUCTURES, SOME FAILURE HAS OCCURRED. IF SEDIMENT IS OBSERVED DOWNSTREAM, NOTIFY THE CIVIL ENGINEER. THE CIVIL ENGINEER WILL INSPECT THE CONDITION AND AFTER INSPECTION, DIRECT THE REMOVAL OF ACCUMULATED SEDIMENT DOWNSTREAM AND ADD ADDITIONAL STRUCTURAL MEASURES AS NECESSARY. CONTRACTOR SHALL IMPLEMENT SOLUTIONS TO PROBLEM AREAS AS RECOMMENDED.

III. COMPLETION

A. PROJECT CLOSE OUT:

THE FOLLOWING SHALL BE DONE AT THE END OF THE PROJECT:

1. INSPECT SITE TO ENSURE THAT GROUND COVER IS COMPLETE AND ADEQUATE. ALL AREAS SHOULD HAVE SUFFICIENT GROUND COVER (MINIMUM 80% VEGETATIVE COVER) WITH NO APPARENT EROSION.
2. WHEN GROUND COVER INSPECTION IS MADE AND APPROVED, ALL STRUCTURAL EROSION CONTROL FACILITIES MAY BE REMOVED ALONG WITH ANY ACCUMULATED SILT AND DEBRIS. AREAS DISTURBED BY STRUCTURE REMOVAL SHALL BE FINE GRADED, GRASSED, AND MULCHED AS REQUIRED.
3. IF GROUND COVER INSPECTION IS MADE AND PROBLEMS DISCOVERED, PERFORM APPROPRIATE REPAIR MEASURES AND RE-INSPECT PRIOR TO STRUCTURE REMOVAL.

Revision	Date	Description	Detailed By	Chk'd By	Approved By
1	5-7-25	ADDENDUM 1	DJ	DJ	CJD

UTILITY NOTE:

ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. PRIOR TO ANY EXCAVATION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE NECESSARY UTILITY AGENCIES AND OBTAIN THE PRECISE LOCATION OF THEIR FACILITIES. THE CONTRACTOR SHALL FAMILIARIZE THEMSELF WITH ALL UTILITY REQUIREMENTS AS SET OUT ON THE PLANS, IN THE SPECIFICATIONS, AND IN THE SPECIAL PROVISIONS.

THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER "HOLEY MOLEY" (TOLL FREE PHONE No. 1-800-382-5544) TWO (2) WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS & WATER LINES).

Indiana811 Know what's below. Call before you dig

TEMPORARY BENCHMARKS

TBM#1
DESCRIPTION:
ELEVATION:
COORDINATES:

Assessment of Construction Plan Elements (Section A)

A1 Index showing location of required Plan Elements
The location of required plan elements can be found outlined under each specific element pertaining to storm water quality measures on this sheet.

A2 Vicinity map depicting the project site location in relationship to recognizable local landmarks, towns, and major roads.
See Cover Sheet.

A3 Narrative describing the nature and purpose of the project
PROJECT CONSISTS OF A BUILDING ADDITION AND PROPOSED STORAGE BUILDING FOR THE HARRISON COUNTY REMC THAT DRAINS TO AN EXISTING SINKHOLE.

A4 Latitude & longitude to nearest fifteen (15) seconds
LATITUDE: 38.218292
LONGITUDE: -86.148841

A5 Legal Description of Project Site
004-00029-00 PT SE QR; 26-3-3; 4.686AC; SURVEY FILED 4-15-2024

A6 11x17-inch plat showing building lot numbers/boundaries and road layout/names
Attached

A7 Boundaries of the one hundred (100) year floodplains, floodway fringes, and floodways.
According to FEMA Firm Panel number 18061C0209D dated 10/16/14 the PROJECT IS LOCATED IN ZONE X.

A8 Land use of all adjacent Properties.
ADJACENT PROPERTIES ARE INDUSTRIAL LOTS.

A9 Identification of a U.S. EPA approved or established TMDL:
According to the WMP and TMDL Reports Search (WATRS) Tool, The site is located in Subwatershed [HUC 12]: INDIAN CREEK 051401041004.

A10 Name(s) of receiving water(s).
According to DNR the receiving waters is INDIAN CREEK.

A11 Identification of discharges to a water on the current 303(d) list of impaired water and the pollutant(s) for which it is impaired.
Runoff from the site will eventually discharge into INDIAN CREEK which IS on the 303(d) list.

A12 Soils map of the predominate soil types.
See This Sheet.

A13 Identification and location of all known wetlands, lakes, and water courses on or adjacent to the project site.
See Sheet ER1.

A14 Identification of any other state or federal water quality permits or authorizations that are required for construction activities.
None known.

A15 Identification and delineation of existing cover, including natural buffers.
EXISTING COVER IS GRASS AND TREES. SEE SHEET C1.0 FOR TREE CLEARING AREA.

A16 Existing site topography at an interval appropriate to indicate drainage patterns.
Refer to Sheet ER1.

A17 Identification(s) where run-off enters the project site.
RUNOFF ENTERS THE SITE FROM THE EAST SIDE OF THE PROPERTY.

A18 Location(s) where run-off discharges from the project site prior to land disturbance.
RUNOFF EXITS THE SITE THROUGH THE SINKHOLE ON THE WEST SIDE OF THE PROPERTY.

A19 Location of all existing structures on the project site.
Refer to Sheet ER1.

A20 Existing permanent retention or detention facilities, including manmade wetlands, designed for the purpose of stormwater management.
NONE.

A21 Locations where stormwater may be directly discharged into ground water, such as abandoned wells, sinkholes, or karst features.
SEE SHEET C3.0 FOR SINKHOLE LOCATION.

A22 Size of the project area expressed in acres
Approximately 10.26 Acres.

A23 Total expected land disturbance expressed in acres.
Approximately 4.08 Acres.

A24 Proposed final topography.
Refer to Sheet ER1.

A25 Locations and approximate boundaries of all disturbed areas.
For limits of disturbance refer to Sheets C1.0, C3.0, & ER1.

A26 Locations, size, and dimensions of all stormwater drainage systems such as culverts, stormwater sewer, and conveyance channels.
Refer to Sheets ER1.

A27 Locations of specific points where stormwater and non-stormwater discharges will leave the project site.
Post disturbance discharge points are the same as pre-disturbance discharge points.

A28 Location of all proposed site improvements, including roads, utilities, lot delineation and identification, proposed structures, and common areas.
Refer to Sheet ER1.

A29 Location of all on-site and off-site soil stockpiles and borrow areas.
Locations of proposed soil stockpiles and/or borrow/disposal areas will be located per the contractors discretion within the limits of disturbance. Stockpiles should be placed in accessible locations that will not interfere with other construction activities or block drainage. Stockpiles should be inspected daily. check for damage to perimeter barrier, repair immediately.

A30 Construction support activities that are expected to be part of this project..
The only support activities expected for the project is construction staging. Staging areas will be located per the contractor's discretion within the limits of disturbance. Location of support activities, where possible, should avoid sensitive areas, such as proximity to water resources or sensitive resource features (i.e., karst).

A31 Location of any in-stream activities that are planned for the project including, but not limited to, stream crossings and pump arounds.
NONE KNOWN.

PROJECT CONTACT INFORMATION		
PROJECT OWNER:		HARRISON COUNTY REMC
CONTACT:		DAVID LETT
ADDRESS:		1165 OLD FOREST ROAD
CITY:		CORYDON
STATE:		INDIANA
ZIP:		47112
PHONE:		812-738-4115
EMAIL:		dlett@harrisonremc.com

Storm Water Pollution Plan – Construction Component (Section B)

B1 Description of potential pollutant generating sources and pollutants, including all potential non-stormwater discharges.
The primary potential pollutant source during construction is sediment caused by stormwater runoff. Fluid leaks from construction equipment are also possible.

B2 Stable construction entrance locations and specifications (at all points of ingress and egress)
Temporary construction entrance shown on ER1. Contractor responsible for tracking (including those responsible for independent construction activities), shall be vigilant of tracking on roads. Sediment discharged or tracked onto roadways must be removed by those responsible for tracking at a minimum by the end of the day of discovery.

B3 Specifications for temporary and permanent surface stabilization (include sequencing).
The duration of time which an area remains exposed shall be kept to a practical minimum.
Stabilization must be initiated by the end of the seventh day the area is left idle. The stabilization activity must be completed within SEVEN (7) days after initiation.
Initiation of stabilization includes, but it not limited to, the seeding and/or planting of the exposed area and applying mulch or other temporary surface stabilization methods where appropriate. Areas that are not accessible due to an unexpected and disruptive event that prevents construction activities are not considered idle. Areas that have been compacted may be excluded from the stabilization requirement when the areas are intended to be impervious surfaces associated with the final land use, provided run-off from the area is directed to appropriate sediment control measures. Topsoil replacement (if deemed necessary) shall take place from March 1 to October 31. Stockpile topsoil (if necessary) at all other times of the year. See "Seasonal Soil Protection Chart" this sheet, "Temporary Seeding Chart" Cover Sheet and "Permanent Seeding Chart" Cover Sheet.Temporary seeding shall utilize seed species, application rates, and dates set forth in the Indiana Stormwater Quality Manual. See Sheet ER1 for construction sequencing. TEMPORARY EROSION CONTROL BLANKET SHALL BE BIONET SC150BN FOR WESTERN GREEN. SEE DETAILS ON SPECIFICATIONS C4.0

B4 Sediment control measures for concentrated flow areas.
Refer to Sheet ER1 for location, and Sheet ER2 for details.

B5 Sediment control measures for sheet flow areas.
Refer to Sheet ER1 for location and Sheet ER1 and ER2 for details.

B6 Runoff control measures (e.g. diversions, rock check dams, slope drains, etc.)
Refer to Sheet ER1 for location and Sheet ER2 for detail.

B7 Storm water outlet protection location and specifications.
Refer to Sheet ER1 for location and Sheet ER2 for details.

B8 Grade stabilization structure locations and specifications.
Outlet outfalls will be stabilized with rip-rap. Refer to Sheet ER1 and Sheet ER2 for locations and details.

B9 Dewatering applications and management methods.
N/A

B10 Measures utilized for work within waterbodies.
N/A

B11 Monitoring and maintenance guidelines for each proposed stormwater quality measure.
The approved erosion prevention and sediment control (EPSC) plan shall be implemented prior to any additional land disturbing activity on the construction site. Any modification to the approved ESPC plan must be reviewed and approved by the engineer. ESPC BMP'S shall be installed per the controlling jurisdiction's standards.

At the end of each day the contractor shall inspect and maintain all erosion control measures. If, in the event there are some unforeseen complications, the contractor shall contact the engineer immediately.

The following will apply to maintaining erosion and sediment control facilities:

All erosion and sediment control facilities shall be inspected regularly to ensure they are effective in the event of rainfall. Measures shall be inspected once a week (minimum) and within twenty-four (24) hours after each rainfall event. Any damaged or non-functional facility shall be repaired or replaced immediately. weekly inspection reports shall be kept on file in the construction trailer.

Silt fence barriers shall be checked regularly for undermining or deterioration of the fabric. sediment shall be removed when the level of deposition reaches one-third the height of the barrier.

Seeded areas shall be checked regularly to ensure a good stand is maintained. Areas should be fertilized and re-seeded as necessary.

Temporary construction entrances (including individual lot entrances) shall be inspected daily. Reshape pad as needed for drainage and runoff control. Top dress with clean aggregate as needed. Immediately remove mud and sediment tracked or washed onto public roads. Flushing should only be used if the water can be conveyed into a sediment trap or basin.

If any facility is damaged during maintenance or otherwise, the damaged portion shall be removed and replaced according to the associated detail. If silt has obstructed the sediment control facility to the point of eliminating all filtering effectiveness, the structure shall be removed and replaced with a new structure in accordance with the associated detail.

Maintenance procedures described in the block and gravel curb inlet protection detail shall be followed for all block and gravel curb inlet protection.
Maintenance procedures for marsh mat type inlet protection shall include checking all inlets after each storm event, removing accumulated sediment from settling areas when the capacity is decreased by half, removing sediment from the settling area or unclogging weep holes in the fabric if the inlet does not drain within 48 hrs, immediately replacing tears in fabric (this may require replacing the entire mat depending on the amount of damage), periodically removing additional debris from the shallow pools that develop.

Straw wattles shall be inspected within 24 hours of a rain event and at least once every seven calendar days. Remove sediment deposits promptly (to ensure adequate storage volume for the next rain), taking care not to undermine the entrenched wattles. Inspect for deterioration or damage from construction activities; replace damaged wattles immediately. When the contributing drainage area has been stabilized, remove all of the straw wattles and sediment deposits, grade the site to blend with the surrounding area, and stabilize.

EROSION CONTROL BLANKET MAINTENANCE STEPS INCLUDE: REGULAR INSPECTIONS, REPAIRING DAMAGE IF THERE IS ANY. MONITORING VEGETATION GROWTH AND CONFIRMING NO VEGETATION IS GROWING THROUGH IT.

REINFORCED SILT FENCE MAINTENANCE STEPS INCLUDE: REGULARLY CHECK FOR AND REMOVE SEDIMENT BUILDUP IF IT EXCEEDS SIX INCHES. INSPECT THE FABRIC FOR ANY TEARS, CLOCS, OR LOOSENESS AND REPAIR OR REPLACE IT AS NEEDED. ENSURE THAT ALL POSTS ARE STABLE AND REPLACE ANY THAT ARE BROKEN OR UNSTABLE. INSPECT THE JOINTS WHERE FENCES ARE JOINED TO ENSURE THEY ARE SOLID, USE J-HOOKS TO BREAK UP LONG RUNS OF FENCE AND CREATE MULTIPLE STORAGE AREAS, WHICH HELPS IN MANAGING WATER FLOW.

STONE BAG AND ROCK CHECK DAM MAINTENANCE INCLUDES: INSPECT THE CHECK DAM EVERY 7 DAYS AND WITHIN 24 HOURS AFTER ANY RAINFALL EVENT THAT PRODUCES 0.5 INCHES OR MORE OF PRECIPITATION, REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ABOUT ONE-THIRD OF THE ORIGINAL HEIGHT OF THE DAM, CLEAR ANY LARGE DEBRIS, TRASH, AND LEAVES THAT MAY OBSTRUCT THE FLOW, LOOK FOR SIGNS OF EROSION AROUND THE EDGES AND UNDERNEATH THE DAM. REPAIR ANY EROSION PROMPTLY BY ADDING ADDITIONAL STONES OR USING GEOTEXTILE FABRIC, AND ONCE THE CONTRIBUTING DRAINAGE AREA IS PERMANENTLY STABILIZED, REMOVE THE CHECK DAM AND STABILIZE THE DISTURBED AREA WITH SEED, SOIL STABILIZATION MATTING, OR SOD.

HEADWALL INLET PROTECTION MAINTENANCE INCLUDES: CONDUCT REGULAR INSPECTIONS, ESPECIALLY DURING LOW WATER LEVELS, TO CHECK THE STRUCTURAL INTEGRITY OF THE HEADWALL AND THE SEAL BETWEEN THE PIPE AND HEADWALL. CLEAR ANY DEBRIS, SEDIMENT, OR PLANT GROWTH AROUND THE HEADWALL TO PREVENT BLOCKAGES AND ENSURE SMOOTH WATER FLOW, MONITOR AND REPAIR ANY EROSION AROUND THE HEADWALL TO MAINTAIN STABILITY AND PREVENT UNDERMINING OF THE STRUCTURE, AFTER SIGNIFICANT STORM EVENTS, CHECK ALL CONTROLS AND REMOVE ACCUMULATED SEDIMENT TO MAINTAIN THE CAPACITY AND FUNCTIONALITY OF THE INLET PROTECTION

CONCRETE WASHOUT MAINTENANCE INCLUDES: USING LEAK PROOF CONTAINERS TO COLLECT AND RETAIN ALL SOLIDS AND LIQUIDS, INSPECT AND CLEAN DAILY, AND USE NON-COLLAPSING COVER TO PREVENT OVERFLOW.

B12 Planned construction sequence that describes the implementation of stormwater quality measures in relation to land disturbance.
Refer to Sheet ER1 for construction sequencing table.

B13 Erosion & sediment control specifications for individual building lots.
Refer to Sheet ER1.

B14 Material handling and spill prevention and spill response plan meeting the requirements in 327 IAC 2-6.1.

In the event of a spill call the following emergency response number – EPA 1-800-424-8802; IDEM 317-233-6381.

Oil and chemicals shall not be stored on site, however in the case of stored oil or chemicals on side, the contractor shall provide spill containment dikes or secondary containment around stored oil and chemical drums.

When vehicle and equipment is necessary on the site, the contractor shall have designated areas, located away from water courses, to prevent contaminants from accessing waterways.

The contractor shall have secondary containment, such as a drain pan or drop cloth, to catch spill and leaks when removing or changing fluids. The contractor shall regularly inspect on-site vehicles and equipment for leaks and repair immediately.

If fueling must occur on-site, the contractor shall have a designated location on the site. This location shall be located away from drainage courses, to prevent runoff of spills. The contractor shall have a stockpile of spill cleanup material where it will be readily accessible. The contractor shall carry out all Federal and State requirements regarding stationary above ground storage tanks with special attention given to secondary containment.

The contractor shall be responsible for the clean-up and management of solid wastes that include but are not limited to: packaging materials including wood, paper and plastic, scrap or surplus materials. Waste containers shall be placed in designated areas away from storm drains, or waterways. The contractor shall make sure toxic liquid wastes are not disposed of in dumpsters designated for construction debris.

Spill prevention and control applies to chemicals and hazardous substances including: soil stabilizers, herbicides, fertilizers, fluids, lubricants and other petroleum distillates. If spills occur, the area shall be cleaned up immediately using the appropriate measures that provide a safe means for cleaning and removal of contaminates.

These following measures should be utilized for best management practices concerning spill prevention and cleanup:

1) Hazardous materials and wastes should be stored in covered containers and protected for vandalism.
2) Place a stockpile of spill cleanup materials where it will be readily accessible.
3) Train employees in spill prevention and cleanup procedures for the site.

General Rules concerning the cleanup of contaminants:

1) Clean up leaks and spills immediately.
2) On paved surfaces, clean up spill with as little water as possible. Use a rag for small spills, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to either a certified laundry or disposed of as a hazardous waste.
3) Never hose down or bury dry material spills. Clean up as much of the materials possible and dispose of properly.

Significant or hazardous spills that cannot be controlled by personnel in the immediate vicinity, shall implement the following steps:

1) Notify the Engineer immediately.
2) Strive for containment of the spill.
3) Plug or otherwise seal off leaking vessels or pipes, if possible.
4) Notify the local emergency response by dialing 911. In addition to 911, the contractor will notify the proper county officials. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
5) If spilled material enters a waterway, DO NOT use chemicals to disperse, emulsify or sink the oil or hazardous substance, unless otherwise advised by state or federal officials. Contain the spilled material on the surface using booms or other barriers.

NEVER RISK PERSONAL SAFETY TO STOP A LEAK OR SPILL.

B15 Material handling and storage procedures associated with construction activities.
Appropriate measures must be implemented to manage wastes or unused building materials including, but not limited to garbage, debris, cleaning wastes, wastewater, concrete or cementitious washout water, mortar/masonry products, soil stabilizers, lime stabilization materials, and other substances. Wastes and unused building materials must be managed and disposed of in accordance with all applicable statutes and regulations. Proper storage and handling of materials, such as fuels or hazardous wastes, and spill prevention and clean-up measures must be implemented to minimize the potential for pollutants to contaminate surface or ground water or degrade soil quality.

Concrete or cementitious washout areas, where permissible, must be identified for the site and locations clearly posted. Wash water must be directed into leak-proof containers or leak-proof containment areas which are located and designed to divert stormwater run-off away from the measure and sized to prevent the discharge and/or overflow of the wash water.

Storm Water Pollution Prevention Plan – Post Construction Component (Section C)

C1 Description of pollutants and their sources associated with the proposed land use
The long-term pollutants expected from the proposed site are those that relate to vehicle traffic, lawn maintenance and landscape vehicle use. The vehicular pollution sources are: leaking fuel, oil or fluids (brake & antifreeze), brake dust, metals, rubber fragments and road grit, salts and sands. Lawn maintenance pollution sources include exposed soil, leaves, mulch, trash, debris, fertilizers & pesticides. The typical pollution sources in a landscaping environment are: trash, mulch, cleaning agents, chemicals, and the aforementioned vehicular pollution sources.

C2 Description of proposed post construction storm water quality measures (include a written description of how these measures will reduce discharge of expected pollutants)
All grass area will be maintained with regular mowing and pruning during growing seasons. Stormwater inlet and outlet structures shall be inspected regularly and kept free of debris. The sinkhole water quality area will also have a 2.5' tall gravel berm with panicum virgatum planted in the compensation area to collect pollutants before entering the sinkhole.

C3 Plan details for each stormwater measures.
Permanent stormwater quality measures include seeding and stabilizing all disturbed areas. The owner will perform regular maintenance with regular mowing and pruning during growing seasons of the lawn. Pavement will be kept clean of debris and rubbish.

C4 Sequence describing storm water quality measure implementation
All existing erosion control measures and monitoring of such, as shown on the plan, will not be removed until final stabilization has occurred. Final stabilization of the site will be accomplished using permanent seeding and paving of all open areas.

C5 Description of maintenance guidelines for post construction storm water quality measures
Maintenance of all stormwater pollution prevention measures will be the responsibility of the project owner utilizing procedures outlined on these plans.The maintenance guidelines consist mostly of good housekeeping measures. Any grassed or vegetated areas that experience erosion from rainfall events should be repaired and re-vegetated as soon as possible. Trash and litter should be picked up and properly disposed of to prevent it from getting into the storm drainage system and waterways.

Erosion of steep banks, any berms, or any swales shall be addressed as soon as it becomes visible. Remediation shall include filling the eroded area with suitable soil and re-establishing vegetation immediately, preferable by utilizing sod.

Any pavement adjacent to the site should be monitored for sediment coming from vegetated/mulched areas. If post-construction erosion is occurring, the source should be re-stabilized as soon as possible by seeding, sod, or mulching.

C6 Entity that will be responsible for operation and maintenance of the post-construction stormwater measures.
Upon final completion of the project, maintenance of all stormwater pollution prevention measures will be the responsibility of the property owner.



SOILS MAP
NOT TO SCALE

SOILS MAP LEGEND

UrlC – URBAN LAND-CRIDER-VERTREES COMPLEX, KARST, ROLLING
VccC3 – VERTREES-CRIDER-CANEYVILLE COMPLEX, KARST, ROLLING, SEVERELY ERODED
VcbD2 – VERTREES-CRIDER-CANEYVILLE SILT LOAMS, KARST, HILLY, ERODED
VccD3 – VERTREES-HAGGATT-CANEYVILLE COMPLEX, KARST, HILLY, SEVERELY ERODED

ENGINEER:
HERITAGE ENGINEERING, LLC
642 South 4th Street
Suite 104
Louisville, KY 40202
(502) 562-1412
(502) 562-1413 Fax
603 North Shore Drive
Unit 204
Jeffersonville, IN 47130
(812) 280-8201
(812) 280-8281 Fax

OWNER/DEVELOPER:
HARRISON REMC
1165 OLD FOREST RD
CORYDON, IN 47112

PROJECT:
CONSTRUCTION PLANS
FOR
HARRISON REMC
MAIN CAMPUS
1165 OLD FOREST ROAD
CORYDON, IN 47112
EROSION CONTROL NOTES

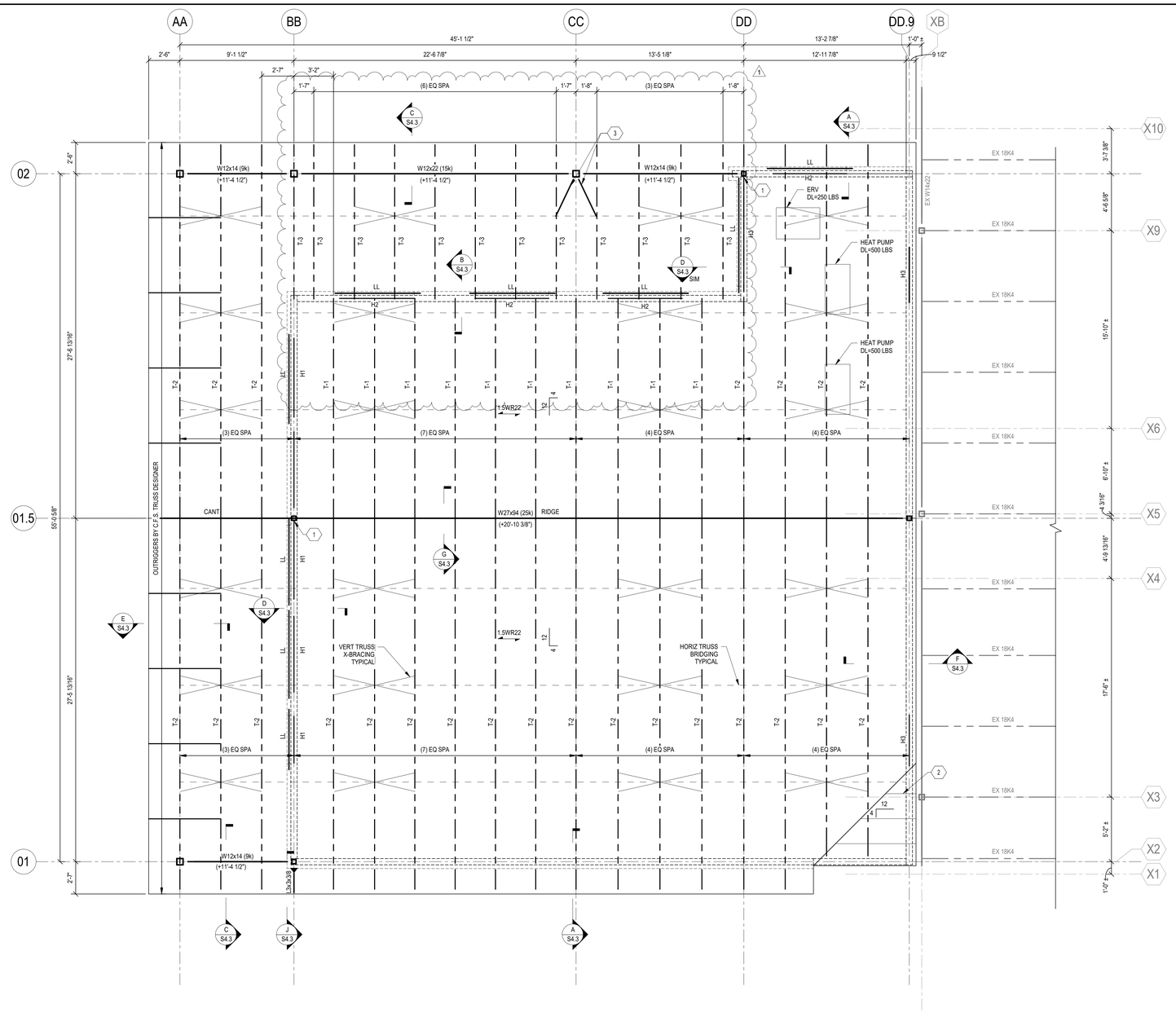
CASEY J. DEYOUNG
REGISTERED
NO. 11500081
STATE OF
INDIANA
PROFESSIONAL ENGINEER

JOB NO:	24071
HORIZ. SCALE:	N/A
VERTICAL SCALE:	N/A
DESIGNED BY:	DJ
DETAILED BY:	SDK
CHECKED BY:	CJD
DATE:	5/7/25

SHEET
ER2
of 10

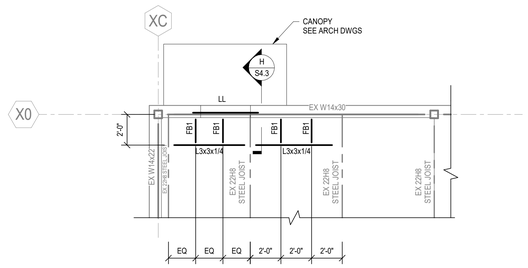
ADDENDUM 1

X:\A-Projects-2024\24071 - Harrison REMC Campus\Construction - Main Campus\24071-ER.dwg PLOT DATE: May 07, 2025 - 4:29pm



A S2.3 OFFICE AREA ROOF FRAMING PLAN (AREA 1)

1/4" = 1'-0"



B S2.3 CANOPY PLAN (AREA 4)

1/4" = 1'-0"

FRAMING PLAN NOTES

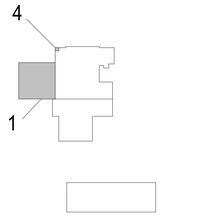
1. ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
2. SEE DWGS S1.1 & S1.2 FOR GENERAL NOTES.
3. SEE DWGS S4.1 & S4.2 FOR TYPICAL FRAMING DETAILS.
4. SEE DWG S5.1 FOR COLUMN SCHEDULE.
5. SPACE BEAMS / JOISTS EVENLY THROUGHOUT BAY U.N.O.
6. THE QUANTITY OF TRUSSES SHOWN IS CONCEPTUAL. DESIGN, SUPPLY, AND INSTALL THE QUANTITY NECESSARY TO SUPPORT THE APPLICABLE LOADS.

FRAMING LEGEND

1.5WR22	= 1 1/2" 22 GA GALVANIZED WIDE RIB STEEL ROOF DECK.
(+13'-7")	= TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
	= WALL BELOW DECK.
T-1	= C.F.S. TRUSS SEE DET M/S4.2 FOR TRUSS PROFILES
H1	= C.F.S. HEADER. DEE DET L/S4.1 FOR DETAIL AND M/S4.1 FOR SCHEDULE. MARKS APPLIES TO OPENING BELOW.
12 / 1/4	= ROOF SLOPE.
FB1	= FLANGE BRACE. SEE DET N/S4.2.
CANT	= CANTILEVER BEAM. SEE DET B/S4.1.
LL	= LOOSE LINTEL. SEE GENERAL NOTES.

ROOF TAG NOTES

1. EXTEND HEADER TO ATTACH TO COLUMN. SEE DET H/S4.1.
2. ROOF OVERFRAMING BY C.F.S. TRUSS DESIGNER. SEE ARCH DRAWINGS.
3. L3x3x1/4 COPE & MITER AS REQUIRED & WELD ALL AROUND TO COLUMN CAP PLATE. COPE & FASTEN TO BOTTOM CHORD OF CFS TRUSS AT PANEL & BRIDGING POINT WITH (3) #14 SCREWS.



KEY PLAN

TowerPinkster
Architecture · Engineering · Interiors
TOWERPINKSTER.COM
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NATHAN JENNINGS — No. PE11900485 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC
4/24/25

ISSUED FOR	DATE
ADDENDUM 1	2025.05.07
BID DOCUMENTS	2025.04.24

BROWN+KUBICAN
STRUCTURAL ENGINEERS
8900 Greeneway Commons Pl.#201
Louisville, KY 40220
502-749-2061
www.brownkubican.com

PROJECT TITLE
Harrison REMC - Addition and Renovation

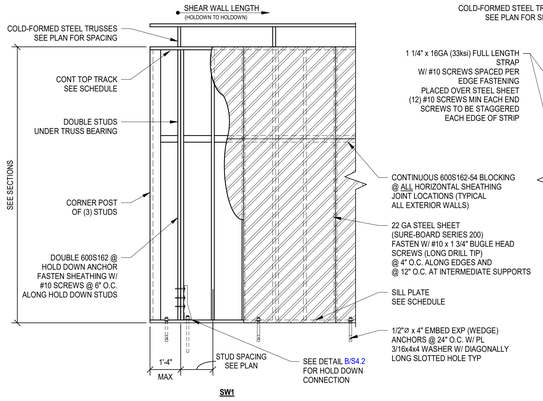
OWNER
HARRISON REMC
Corydon, IN

SHEET TITLE
ROOF FRAMING PLAN-BUILDING 1

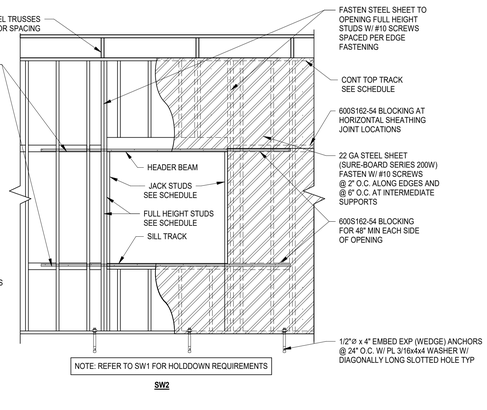
DATE
April 24, 2025

SHEET NUMBER
S2.3
24179.00

NOTE: SPLICES IN TRACKS ARE NOT PERMITTED @ SHEAR WALLS



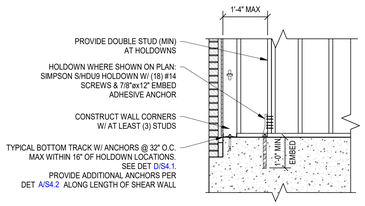
SW1



SW2

A S4.2 TYPICAL SHEAR WALL FRAMING

NOT TO SCALE

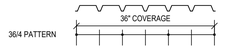


B S4.2 TYPICAL SHEAR WALL HOLDOWN ANCHORAGE DETAIL

NOT TO SCALE

FASTEN STEEL FLOOR AND ROOF DECK AS INDICATED BELOW FOR EACH DIAPHRAGM ZONE AS MARKED ON PLAN.

A. FASTEN DECK UNITS AT ENDS AND AT INTERMEDIATE SUPPORTS WITH FASTENERS AS NOTED IN SCHEDULE ACCORDING TO THE FOLLOWING PATTERNS.



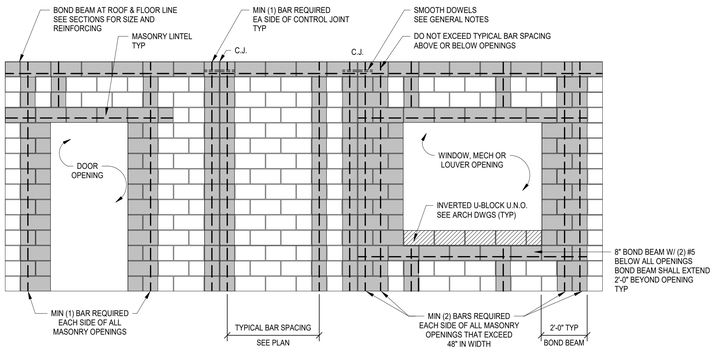
DIAPHRAGM ZONE	DECK TYPE	PANEL ENDS AND INTERMEDIATE SUPPORTS	DECK SIDE LAPS
ROOF	1.5WR22	#10 TEK SCREW OR P.A.F. @ 36/4 PATTERN	#10 TEK SCREW @ 24" O.C. MAX

B. FASTEN DECK SIDE LAPS, INCLUDING DECK TO CLOSURE PLATES, WITH #10 SELF DRILLING SCREWS AS NOTED IN SCHEDULE.

C. FASTEN DECK PERIMETER SIDE EDGES (PARALLEL TO DECK SPAN), INCLUDING CLOSURE PLATES, TO STEEL SUPPORTS WITH #12 TEK SCREWS OR P.A.F. PIN (ROOF DECK OR FORM DECK) SPACED AT 12" ON CENTER.

C S4.2 STEEL FLOOR/ROOF DECK FASTENING SCHEDULE

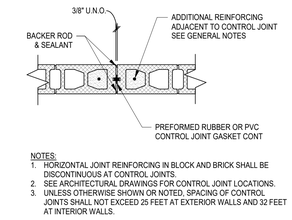
NOT TO SCALE



NOTES:
1. SEE MASONRY GENERAL NOTES FOR REINFORCING NOT SHOWN AND GROUTING PROCEDURES.
2. CONTROL JOINTS SHALL EXTEND FULL HEIGHT OF WALL AND ALIGN FROM FLOOR TO FLOOR.
3. CONTROL JOINTS SHALL BE LOCATED OUTSIDE MASONRY OPENING JAMB REINFORCING.

D S4.2 TYPICAL MASONRY WALL REINFORCING DETAIL

NOT TO SCALE



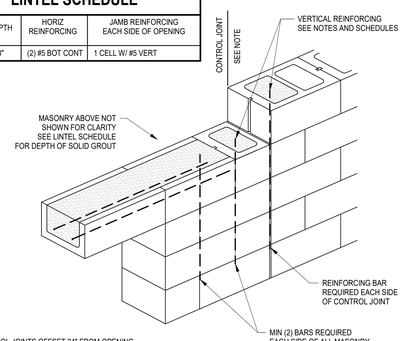
NOTES:
1. HORIZONTAL JOINT REINFORCING IN BLOCK AND BRICK SHALL BE DISCONTINUOUS AT CONTROL JOINTS.
2. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
3. UNLESS OTHERWISE SHOWN OR NOTED, SPACING OF CONTROL JOINTS SHALL NOT EXCEED 25 FEET AT EXTERIOR WALLS AND 32 FEET AT INTERIOR WALLS.

E S4.2 TYPICAL C.M.U. CONTROL JOINT DETAIL (C.J.)

NOT TO SCALE

LINTEL SCHEDULE

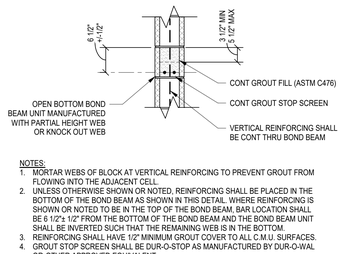
MARK	DEPTH	HORIZ REINFORCING	JAMB REINFORCING EACH SIDE OF OPENING
ML8	8"	(2) #5 BOT CONT	1 CELL W/ #5 VERT



NOTES:
1. PROVIDE CONTROL JOINTS OFFSET 24" FROM OPENING, ON BOTH SIDES OF OPENINGS WIDER THAN 6'-8" AND ON ONE SIDE OF OPENINGS 6'-8" WIDE AND LESS.
2. REINFORCING SHALL HAVE 1/2" MINIMUM GROUT COVER TO SURFACE OF BOND BEAM.
3. REINFORCING SHALL BE LOCATED 3" MAXIMUM FROM BOTTOM OF LINTEL BLOCK.
4. WHERE JAMB IS LESS THAN 2'-0" WIDE, HOOK HORIZONTAL LINTEL BARS AT ENDS.

F S4.2 TYPICAL MASONRY LINTEL BEARING DETAIL

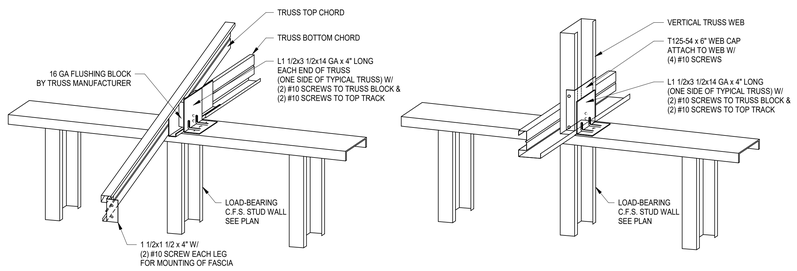
NOT TO SCALE



NOTES:
1. MORTAR WEBS OF BLOCK AT VERTICAL REINFORCING TO PREVENT GROUT FROM FLOWING INTO THE ADJACENT CELL.
2. UNLESS OTHERWISE SHOWN OR NOTED, REINFORCING SHALL BE PLACED IN THE BOTTOM OF THE BOND BEAM AS SHOWN IN THIS DETAIL. WHERE REINFORCING IS SHOWN OR NOTED TO BE IN THE TOP OF THE BOND BEAM, BAR LOCATION SHALL BE 6 1/2"± 1/2" FROM THE BOTTOM OF THE BOND BEAM AND THE BOND BEAM UNIT SHALL BE INVERTED SUCH THAT THE REMAINING WEB IS IN THE BOTTOM.
3. REINFORCING SHALL HAVE 1/2" MINIMUM GROUT COVER TO ALL C.M.U. SURFACES.
4. GROUT STOP SCREEN SHALL BE DUR-O-STOP AS MANUFACTURED BY DUR-O-WAL OR OTHER APPROVED EQUIVALENT.
5. USE LINTEL BLOCK WHERE BOND BEAM OCCURS DIRECTLY ABOVE WINDOW, DOOR, OR LOUVER OPENING.

G S4.2 TYPICAL C.M.U. BOND BEAM DETAIL

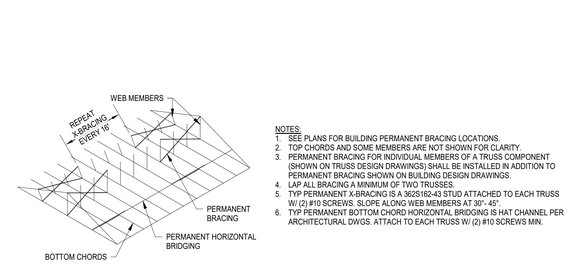
NOT TO SCALE



END BEARING INTERIOR BEARING

H S4.2 TYPICAL TRUSS BEARING DETAIL AT C.F.S. WALL

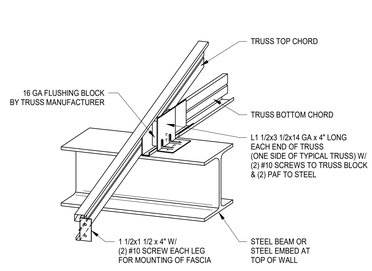
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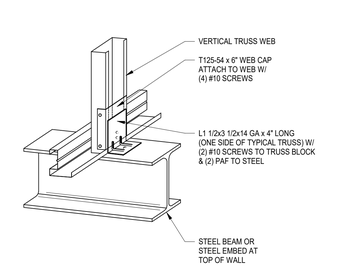
NOTES:
1. SEE PLANS FOR BUILDING PERMANENT BRACING LOCATIONS.
2. TOP CHORDS AND SOME MEMBERS ARE NOT SHOWN FOR CLARITY.
3. PERMANENT BRACING FOR INDIVIDUAL MEMBERS OF A TRUSS COMPONENT (SHOWN ON TRUSS DESIGN DRAWINGS) SHALL BE INSTALLED IN ADDITION TO PERMANENT BRACING SHOWN ON BUILDING DESIGN DRAWINGS.
4. LAP ALL BRACING A MINIMUM OF TWO TRUSSES.
5. TYP PERMANENT X-BRACING IS A 362S162-43 STUD ATTACHED TO EACH TRUSS W/ (2) #10 SCREWS. SLOPE ALONG WEB MEMBERS AT 30°- 45°.
6. TYP PERMANENT BOTTOM CHORD HORIZONTAL BRIDGING IS HAT CHANNEL PER ARCHITECTURAL DWGS. ATTACH TO EACH TRUSS W/ (2) #10 SCREWS MIN.

J S4.2 TYPICAL MINIMUM PERMANENT TRUSS BRACING

NOT TO SCALE



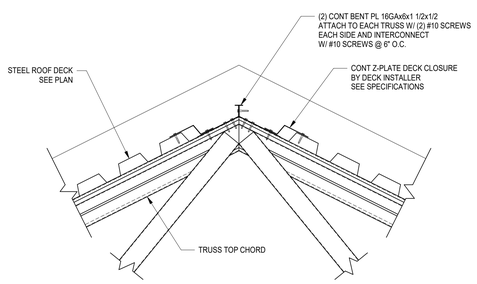
END BEARING



INTERIOR BEARING

K S4.2 TYPICAL TRUSS BEARING DETAIL AT STEEL

NOT TO SCALE

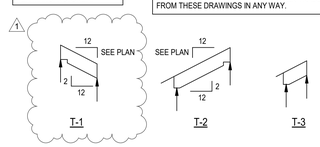


L S4.2 TYPICAL RIDGE PLATE DETAIL

NOT TO SCALE

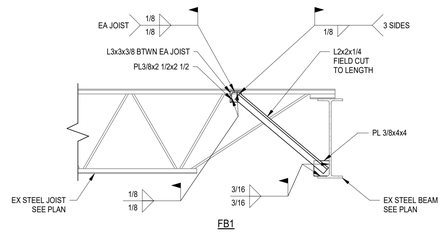
NOTE:
WEB CONFIGURATION AND TRUSS-TRUSS CONNECTIONS PER MANUFACTURER.

NOTE:
TRUSS PROFILES ARE DEPENDENT UPON TRUSS CHORD MEMBER DEPTHS BASED ON TRUSS MANUFACTURER'S DESIGN. TRUSS MANUFACTURER TO CLOSELY COORDINATE WITH ALL OTHER TRADES IF TRUSS DESIGN DIFFERS FROM THESE DRAWINGS IN ANY WAY.



M S4.2 TYPICAL LIGHT GAUGE METAL TRUSS PROFILES

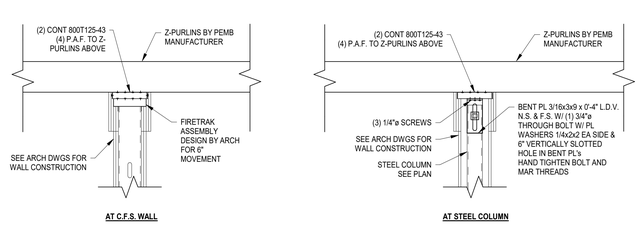
NOT TO SCALE



FB1

N S4.2 TYPICAL FLANGE BRACE DETAIL

NOT TO SCALE



P S4.2 TYPICAL DEFLECTION CONNECTION @ STORAGE BUILDING

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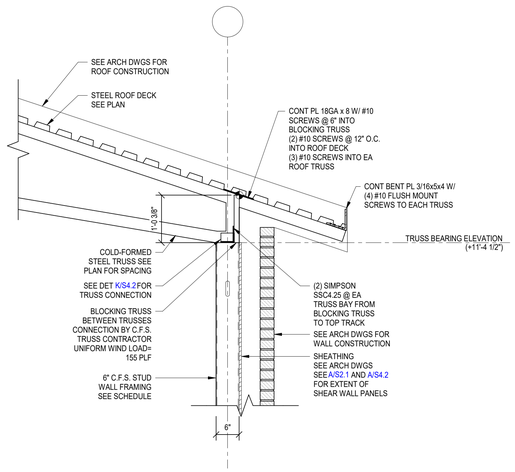
PROJECT TITLE
Harrison REMC - Addition and Renovation

OWNER
HARRISON REMC
Corydon, IN

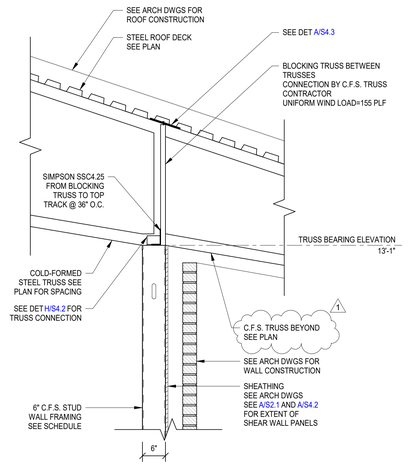
SHEET TITLE
TYPICAL FRAMING DETAILS

DATE
April 24, 2025

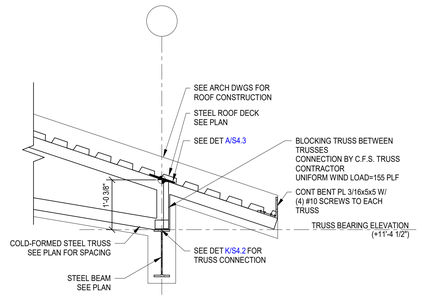
SHEET NUMBER
S4.2
24179.00



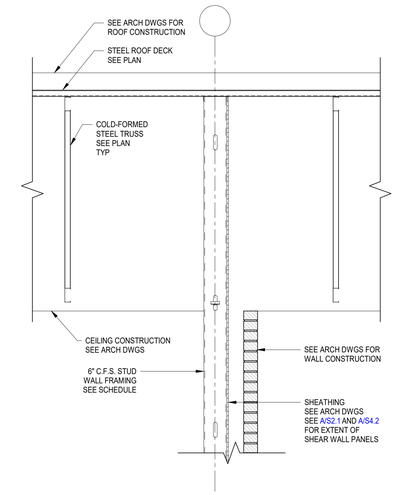
A S4.3 SECTION
3/4" = 1'-0"



B S4.3 SECTION
3/4" = 1'-0"



C S4.3 SECTION
3/4" = 1'-0"



D S4.3 SECTION
3/4" = 1'-0"

E S4.3 SECTION
3/4" = 1'-0"

F S4.3 SECTION
3/4" = 1'-0"

G S4.3 SECTION
3/4" = 1'-0"

H S4.3 SECTION
1" = 1'-0"

J S4.3 SECTION
3/4" = 1'-0"

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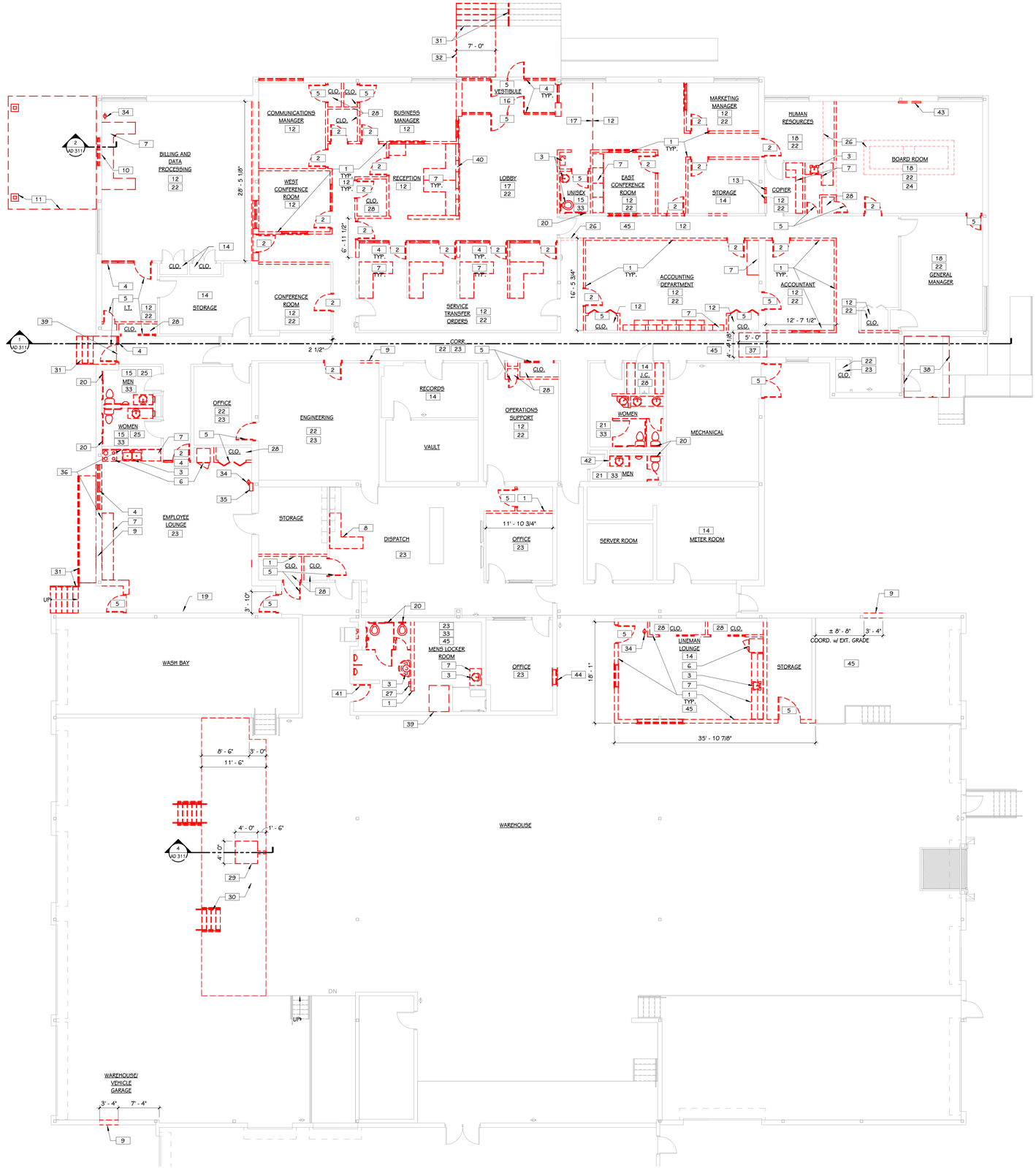
PROJECT TITLE
Harrison REMC - Addition and Renovation

OWNER
HARRISON REMC
Corydon, IN

SHEET TITLE
FRAMING SECTIONS

DATE
April 24, 2025

SHEET NUMBER
S4.3
24179.00



FIRST FLOOR DEMOLITION - BUILDING 1
1/8" = 1'-0"

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KEYED NOTES - ARCHITECTURAL - DEMOLITION

1 REMOVE AND DISCARD ENTIRE WALL ASSEMBLY INCLUDING FINISHES, FRAMING, AND ASSOCIATED MEP SYSTEMS

2 REMOVE AND DISCARD DOOR FRAME; RETAIN DOOR PANEL AND HARDWARE

3 REMOVE AND DISCARD EXISTING PLUMBING FIXTURES

4 REMOVE AND DISCARD STOREFRONT SYSTEM

5 REMOVE AND DISCARD DOOR FRAME , PANEL, AND HARDWARE

6 SALVAGE EXISTING APPLIANCES AND RETURN TO OWNER.

7 COMPLETELY REMOVE CASEWORK (BASE CABINETS, TALL CABINETS, AND/OR WALL CABINETS AS APPLICABLE). PREP FOR NEW CONSTRUCTION.

8 PARTIALLY REMOVE AND DISCARD EXISTING CASEWORK; SEE ENLARGED DEMOLITION DETAIL

9 PROVIDE ROUGH OPENING FOR NEW DOOR; SEE DOOR SCHEDULE

10 REMOVE AND DISCARD EXISTING DRIVE THRU WINDOW AND WALL BENEATH; SEE SECTION DETAIL

11 REMOVE AND DISCARD EXISTING DRIVE THRU CANOPY AND FRAMING COMPLETE

12 COMPLETELY REMOVE MODULAR CARPET TILE, MASTIC, AND WALL BASE FROM ENTIRE ROOM. PREP FOR NEW FINISHES.

13 REMOVE AND RETAIN MAIL ORGANIZERS

14 COMPLETELY REMOVE VCT, MASTIC, AND WALL BASE FROM ENTIRE ROOM. PREP FOR NEW FLOOR FINISHES

15 COMPLETELY REMOVE MOSAIC TILE FLOORING, MORTAR BED, AND WALL BASE FROM ENTIRE ROOM. PREP FOR NEW FLOOR FINISHES.

16 COMPLETELY REMOVE EXISTING CARPET TILE INSET, MASTIC, AND PORCELAIN TILE. INFILL RECESS WITH SELF LEVELING COMPOUND. PREP FOR NEW FINISHES.

17 COMPLETELY REMOVE PORCELAIN TILE FLOOR, BASE AND MORTAR BED. PREP FOR NEW FINISHES.

18 COMPLETELY REMOVE BROADLOOM CARPET, MASTIC AND WALL BASE FROM ENTIRE ROOM. PREP FOR NEW FLOOR FINISHES.

19 CAREFULLY REMOVE EXISTING WALL MOUNTED TELEVISION. SEE ARCHITECTURAL PLAN FOR REINSTALLATION. PREP FOR NEW WALL FINISHES. PATCH AND REPAIR WALL SURFACES.

20 EXISTING TOILET SEAT COVER DISPENSERS. REMOVE AND SALVAGE FOR REINSTALLATION.

21 COMPLETELY REMOVE VINYL TILE, MASTIC, AND WALL BASE FROM ENTIRE ROOM. PREP FOR NEW FLOOR FINISHES.

22 REMOVE VINYL WALLCOVERING AND ANY ADHESIVE RESIDUE FROM WALLS (AND BULKHEADS WHERE APPLICABLE.) PREP FOR NEW WALL FINISHES.

23 COMPLETELY REMOVE EPOXY FLOOR COATING. PREP FOR NEW FINISHES

24 REMOVE EXISTING WALL MOUNTED TRIM INCLUDING CHAIR RAIL, TV CABINET, AND CROWN MOLDING FROM ALL WALLS WITHIN ROOM. SKIM COAT WALL SURFACES. PREP FOR NEW FINISHES.

25 COMPLETELY REMOVE WALL TILE. REMOVE GYP. BD. BEHIND TILE. PREP FOR NEW FINISHES.

26 REMOVE BULKHEAD/SOFFIT ABOVE; SEE DEMO CEILING PLAN

27 REMOVE AND SALVAGE ELECTRIC HAND DRYER

28 REMOVE AND DISCARD EXISTING SHELVING, CLOSET RODS, SUPPORTS, AND ALL HARDWARE. PREP FOR NEW FINISHES.

29 REMOVE AND DISCARD EXISTING IN-FLOOR SCALE

30 REMOVE AND DISCARD CONCRETE SLAB, ASSOCIATED RETAINING WALL AND STAIRS; SEE SECTION DETAIL

31 REMOVE AND DISCARD EXISTING STAIR/RAMP AND ASSOCIATED GUARDRAIL/HANDRAIL

32 REMOVE AND DISCARD PORTION OF EXISTING EXTERIOR CONCRETE SLAB

33 REMOVE ALL TOILET ACCESSORIES WITHIN ENTIRE ROOM. PREP FOR NEW CONSTRUCTION

34 REMOVE AND SALVAGE FIRE EXTINGUISHER

35 REMOVE AND SALVAGE AED

36 REMOVE CERAMIC TILE BACKSPLASH. PREP FOR NEW CONSTRUCTION

37 SAW CUT AND REMOVE SECTION OF SLAB ON GRADE WITH DIFFERENTIAL SETTLEMENT

38 REMOVE AND DISCARD EXISTING METAL CANOPY AND ASSOCIATED COLUMN

39 TEMPORARY CLOSURE OF EXIT WILL BE REQUIRED DURING CONSTRUCTION OF ADDITION. PROVIDE TEMPORARY SIGNAGE TO REDIRECT EGRESS THROUGH EMPLOYEE LOUNGE TO WAREHOUSE.

40 REMOVE PARTIAL HEIGHT WALL AND STONE VENEER

41 REMOVE AND DISCARD DOOR PANEL; EXISTING FRAME TO REMAIN

42 COMPLETELY REMOVE PORTION OF FRP. PREP FOR NEW FINISHES.

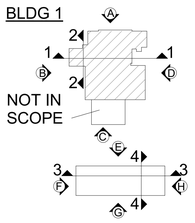
43 REMOVE AND SALVAGE DRY ERASE BOARD. RETURN TO OWNER.

44 REMOVE AND DISCARD WINDOW; INFILL EXISTING WALL

45 SAWCUT AND REMOVE PORTION OF CONCRETE FLOOR SLAB AS REQUIRED FOR INSTALLATION OF NEW UNDERSLAB SANITARY PIPING; REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION

HARRISON REMC - RENOVATION

BLDG 1



KEY PLAN
SCALE: NO SCALE

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ADDENDUM 1	05/07/2025
BID DOCUMENTS	04/24/2025
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PROJECT TITLE
Harrison REMC - ADDITION & RENOVATION

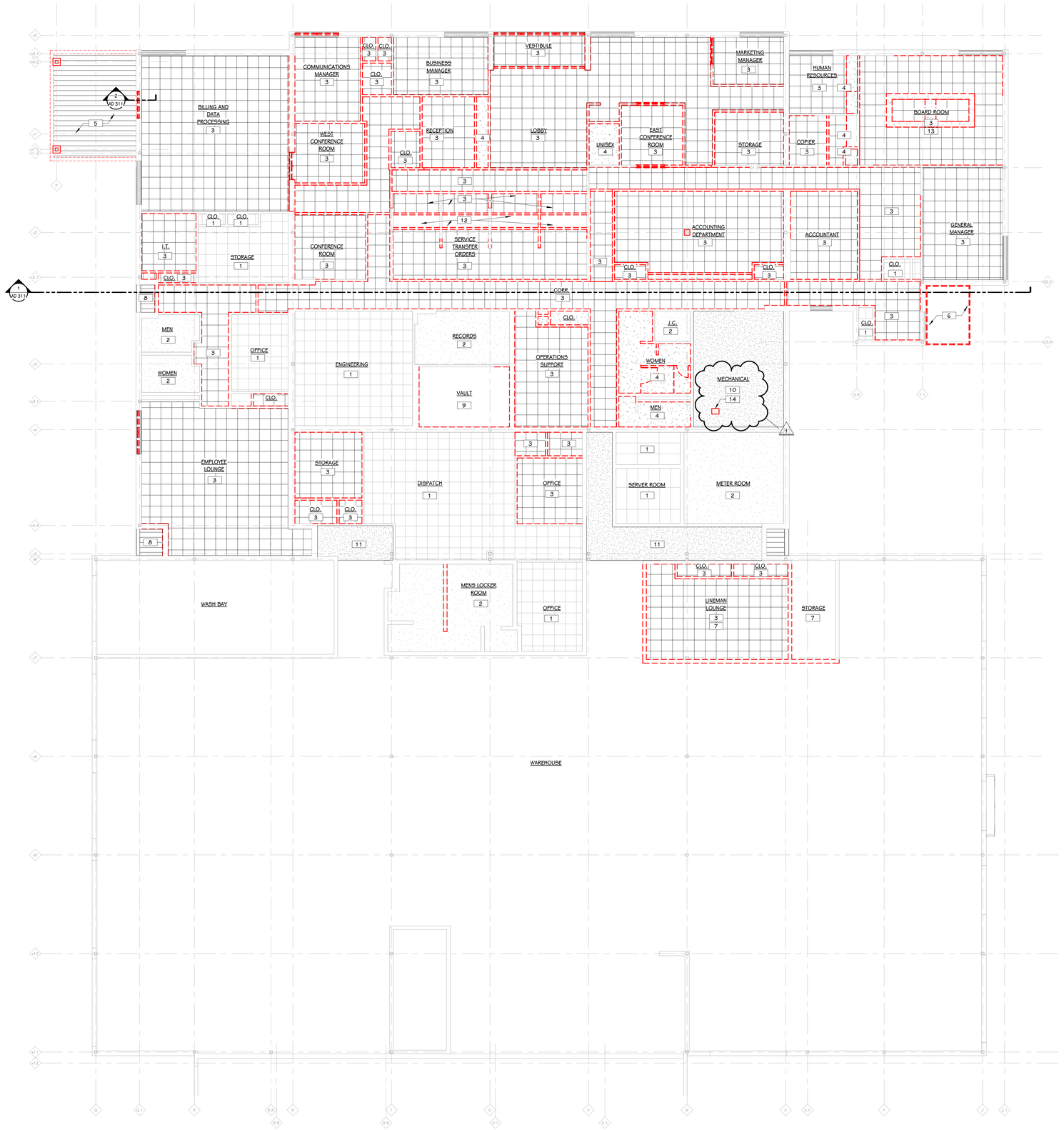
OWNER
HARRISON REMC

1165 OLD FOREST RD, CORYDON, IN 47112

SHEET TITLE
FIRST FLOOR DEMOLITION PLAN

DATE
April 24, 2025

SHEET NUMBER
AD 101
24179.00



OVERALL FIRST FLOOR REFLECTED CEILING DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES - REFLECTED CEILINGS - DEMOLITION

1 ALL ACOUSTICAL CEILING TILES THAT ARE REMOVED ARE TO BE RETAINED AND PROTECTED DURING CONSTRUCTION. TILES DEEMED IN GOOD CONDITION WILL BE RE-USED IN AREAS WHERE THE CEILING IS MARKED TO REMAIN.

2 IN AREAS WHERE CEILING TILES AND GRID ARE MARKED TO REMAIN, CAREFULLY REMOVE ACOUSTICAL CEILING TILES AND GRID AS NEEDED TO FACILITATE INSTALLATION OF THE SPRINKLER SYSTEM. RETAIN AND PROTECT REMOVED TILES AND GRID DURING CONSTRUCTION AND RE-INSTALL IN EXISTING LOCATION IF IN GOOD CONDITION.

3 IN AREAS WHERE GYPSUM BOARD CEILING IS MARKED TO REMAIN, CUT AND REMOVE SECTIONS OF CEILING ONLY AS NEEDED TO FACILITATE INSTALLATION OF THE SPRINKLER SYSTEM. INSTALL NEW GYPSUM BOARD, PATCH AND REPAINT CEILING AS NOTED ON INTERIOR FINISH PLANS.

KEYED NOTES - REFLECTED CEILINGS - DEMOLITION

1 EXISTING CEILING TILE AND GRID TO REMAIN

2 EXISTING GYPSUM CEILING TO REMAIN

3 REMOVE AND DISCARD CEILING GRID; REMOVE AND RETAIN CEILING TILES IN GOOD CONDITION (WITHOUT STAINS, DISCOLORATION, OR DAMAGE), DISCARD OTHERS

4 REMOVE AND DISCARD GYP BOARD CEILING AND FRAMING COMPLETE

5 REMOVE AND DISCARD EXISTING DRIVE THRU CANOPY AND FRAMING COMPLETE

6 REMOVE AND DISCARD EXISTING METAL CANOPY AND FRAMING

7 REMOVE AND DISCARD CEILING JOISTS AND OSB PANELS ABOVE CMU

8 REMOVE AND DISCARD EXTERIOR SOFFIT

9 EXISTING PRECAST CONCRETE PLANK CEILING TO REMAIN; DRILL OPENINGS FOR SPRINKLER HEADS AS NEEDED

10 EXISTING PLASTER CEILING TO REMAIN

11 REMOVE AND DISCARD PLASTER CEILING COMPLETE

12 REMOVE AND DISCARD GYP BOARD BULKHEAD AND FRAMING COMPLETE

13 COMPLETELY REMOVE GYP. BD. TRAY CEILING AND ALL ASSOCIATED FRAMING

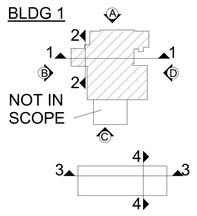
14 PROVIDE NEW OPENING IN ROOF FOR MECHANICAL UNIT ON ROOF; REFER TO MECHANICAL DRAWINGS

1

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HARRISON REMC - RENOVATION

BLDG 1



KEY PLAN
SCALE: NO SCALE

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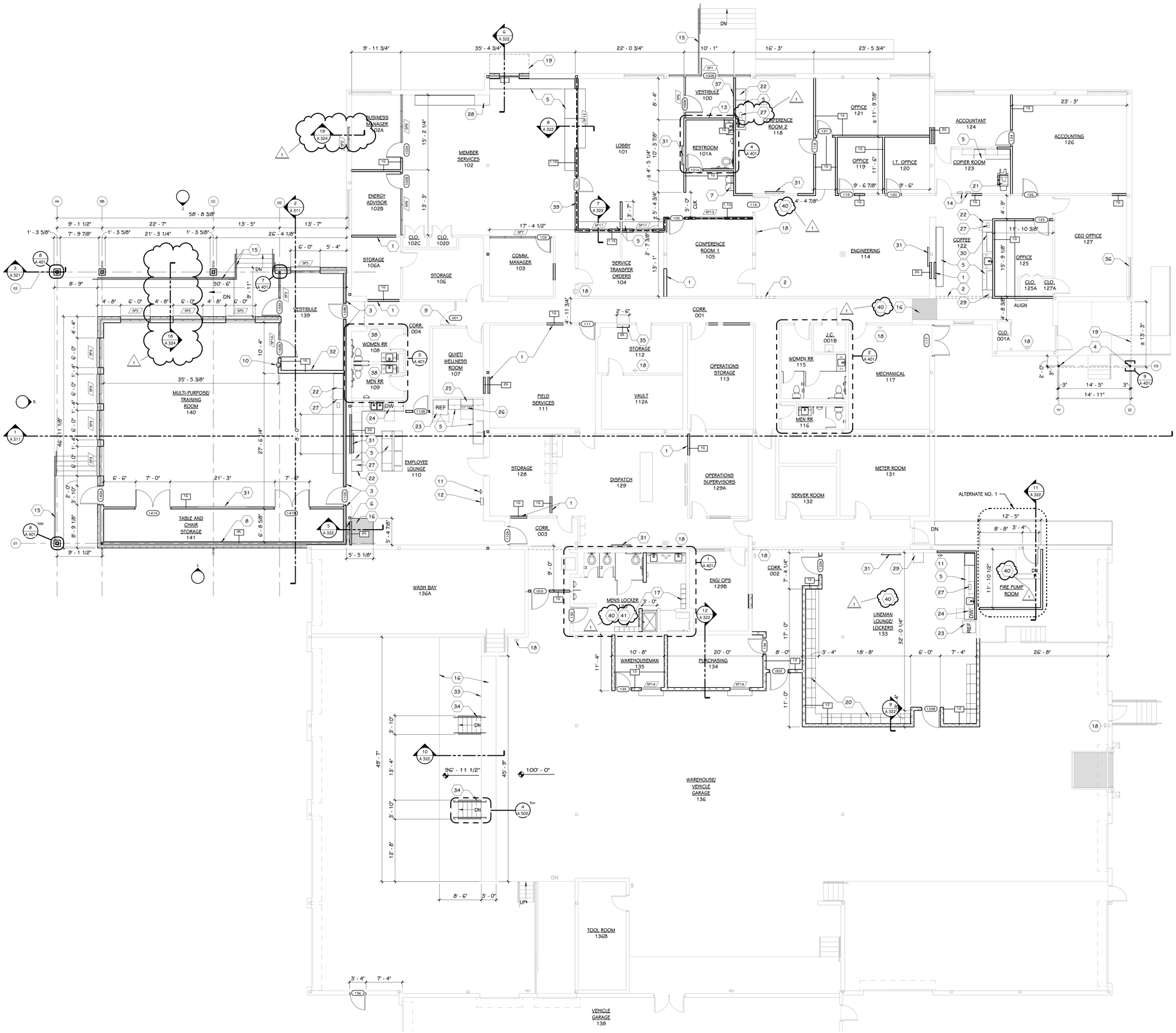
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DATE
April 24, 2025

SHEET TITLE
FIRST FLOOR DEMOLITION CEILING PLAN

SHEET NUMBER
AD 201
24179.00



FIRST FLOOR PLAN - BUILDING 1
1/8" = 1'-0"

KEY - FLOOR PLAN

ROOM NAME
1001 — ROOM NAME / ROOM NUMBER

XXXX — DOOR TAG; SEE DOOR SCHEDULE

XXX — CURTAINWALL/STOREFRONT TAG; SEE FRAME ELEVATIONS

1 HR — WALL ASSEMBLY TYPE / FIRE RATING (IN MINUTES)

KEYED NOTES - ARCHITECTURAL - CONSTRUCTION

1 NEW INFILL WALL AS SCHEDULED

2 INDICATES BULKHEAD/SOFFIT ABOVE

3 PROVIDE EXPANSION JOINT AND COVER BETWEEN EXISTING BUILDING AND ADDITION

4 NEW METAL POST FOR MAPES CANOPY AS SPECIFIED BY VENDOR; PROVIDE NEW CONCRETE FOOTING; SEE STRUCTURAL

5 NEW CASEWORK / COUNTERTOP; SEE INTERIOR ELEVATIONS

6 SERVICE CHASE FOR MECHANICAL, ELECTRICAL, AND PLUMBING SERVICE TO NEW ADDITION

7 NEW HI-LO WATER DRINKING FOUNTAIN AND BOTTLE FILLER; PROVIDE PRT BLOCKING IN WALL AS REQUIRED

8 STRUCTURAL METAL STUD FRAMED LOAD-BEARING WALL; SEE STRUCTURAL

9 PROVIDE ACCESS CONTROL TO EXISTING DOOR AS SPECIFIED BY SECURITY CONSULTANT

10 INSTALL NEW SEMI-RECESSED FIRE EXTINGUISHER CABINET

11 RE-INSTALL EXISTING FIRE EXTINGUISHER IN NEW LOCATION

12 RE-INSTALL EXISTING AED CABINET IN NEW LOCATION

13 RE-INSTALL EXISTING DECORATIVE PLAQUES IN VESTIBULE; CENTERED HORIZONTALLY ON THE WALL

14 RE-INSTALL EXISTING MAIL ORGANIZER IN NEW LOCATION; COORDINATE FINAL LOCATION w/ OWNER

15 NEW EXTERIOR GUARDRAIL AND HANDRAIL; SEE TYPICAL DETAILS

16 POUR NEW CONCRETE SLAB AND DOWEL INTO EXISTING SLAB; SEE SECTION DETAIL AND STRUCTURAL DRAWINGS

17 3-TIER SOLID PLASTIC LOCKERS. SEE SPECIFICATION 10 5100.01

18 EXISTING FIRE EXTINGUISHER TO REMAIN

19 INDICATES PREFABRICATED METAL CANOPY ABOVE

20 METAL ATHLETIC LOCKERS. SEE SPECIFICATION 10 5100.01

21 COPIER. OFOI

22 UNDER-COUNTER REFRIGERATOR. OFOI. COORDINATE WITH CASEWORK AS REQUIRED

23 REFRIGERATOR. OFOI. COORDINATE WITH CASEWORK AS REQUIRED

24 DISHWASHER. OFOI. COORDINATE WITH CASEWORK AS REQUIRED

25 RANGE HOOD. OFOI. COORDINATE WITH CASEWORK AS REQUIRED

26 RANGE. OFOI. COORDINATE WITH CASEWORK AS REQUIRED

27 COFFEE MAKER. OFOI. COORDINATE WITH CASEWORK AS REQUIRED

28 FILING CABINET. OFOI. COORDINATE WITH CASEWORK AS REQUIRED

29 FREESTANDING WATER COOLER. OFOI. COORDINATE WITH CASEWORK AS REQUIRED

30 ICE MAKER. OFOI. COORDINATE WITH CASEWORK AS REQUIRED

31 WALL MOUNTED TV; CONTRACTOR TO PROVIDE WOOD BLOCKING; CONFIRM EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER. OFOI

32 NEW BRONZE DEDICATION PLAQUE

33 NEW CONCRETE RETAINING WALL

34 NEW STEEL STAIR, GUARDRAIL, AND HANDRAIL

35 FUR OUT NEW WALL TO ACCOMODATE NEW ELECTRICAL PANEL

36 PROVIDE TINT FILM AT WINDOW

37 REINSTALL PLAQUE ON EAST WALL OF VESTIBULE

38 INSTALL NEW TILE BACKER BOARD ON ALL WALLS

39 LINE INDICATES BULLET RESISTANT CONSTRUCTION; SEE WALL TYPES AND SECTIONS

40 PATCH AND REPAIR SAWCUT CONCRETE WITH NEW 4" THICK CONCRETE SLAB WITH 6x6 - W1.4xW1.4 W.W.F. OVER 15 MIL VAPOR BARRIER OVER GRANULAR FILL; REFER TO TYPICAL DETAIL 11/A502 FOR DOWEL REQUIREMENTS

41 PROVIDE SELF-LEVELING FLOOR UNDERLAYMENT THROUGHOUT ROOM

1

HARRISON REMC - RENOVATION

BLDG 1

NOT IN SCOPE

KEY PLAN
SCALE: NO SCALE

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ADDENDUM 1	05/07/2025
BID DOCUMENTS	04/24/2025
ISSUED FOR	DATE

PROJECT TITLE
Harrison REMC - ADDITION & RENOVATION

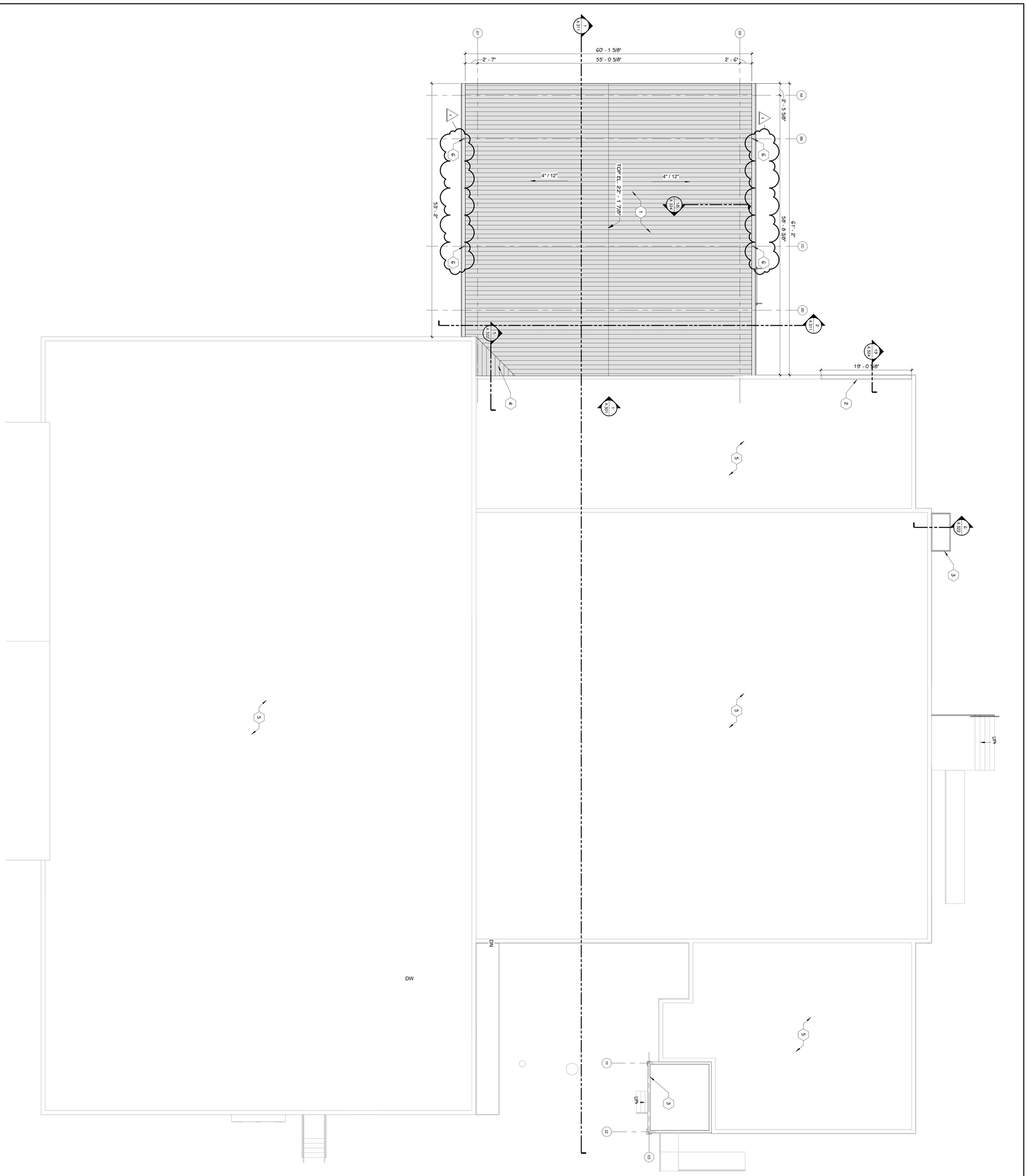
OWNER
HARRISON REMC

1165 OLD FOREST RD, CORYDON, IN 47112

SHEET TITLE
FIRST FLOOR PLAN - BUILDING 1

DATE
April 24, 2025

SHEET NUMBER
A101
24179.00

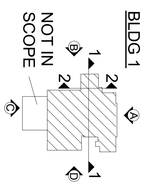


ROOF PLAN - BUILDING 1
1/8" = 1'-0"

KEYED NOTES - ARCHITECTURAL - ROOF

1 NEW STANDING SEAM METAL ROOF; SEE FINISH SCHEDULE
2 INFILL PARAPET TO MATCH EXISTING
3 NEW MAPES CANOPY SYSTEM; SEE ENLARGED PLAN, SECTION, AND MANUFACTURER SPEC
4 OVERBUILD COLD FORMED STEEL TRUSS TO ALLOW ROOF TO DRAIN TOWARDS GUTTER
5 EXISTING ROOF, PROTECT DURING CONSTRUCTION
6 NEW DOWNSPOUT LOCATION, 3" x 3" MIN. COLOR TO MATCH GUTTERS

KEY PLAN
SCALE: NO SCALE



HARRISON REMC - RENOVATION

SHEET TITLE
ROOF PLAN - BUILDING 1

SHEET NUMBER
A 103
24179.00

DATE
April 24, 2025

OWNER
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1165 OLD FOREST RD, CORYDON, IN 47112

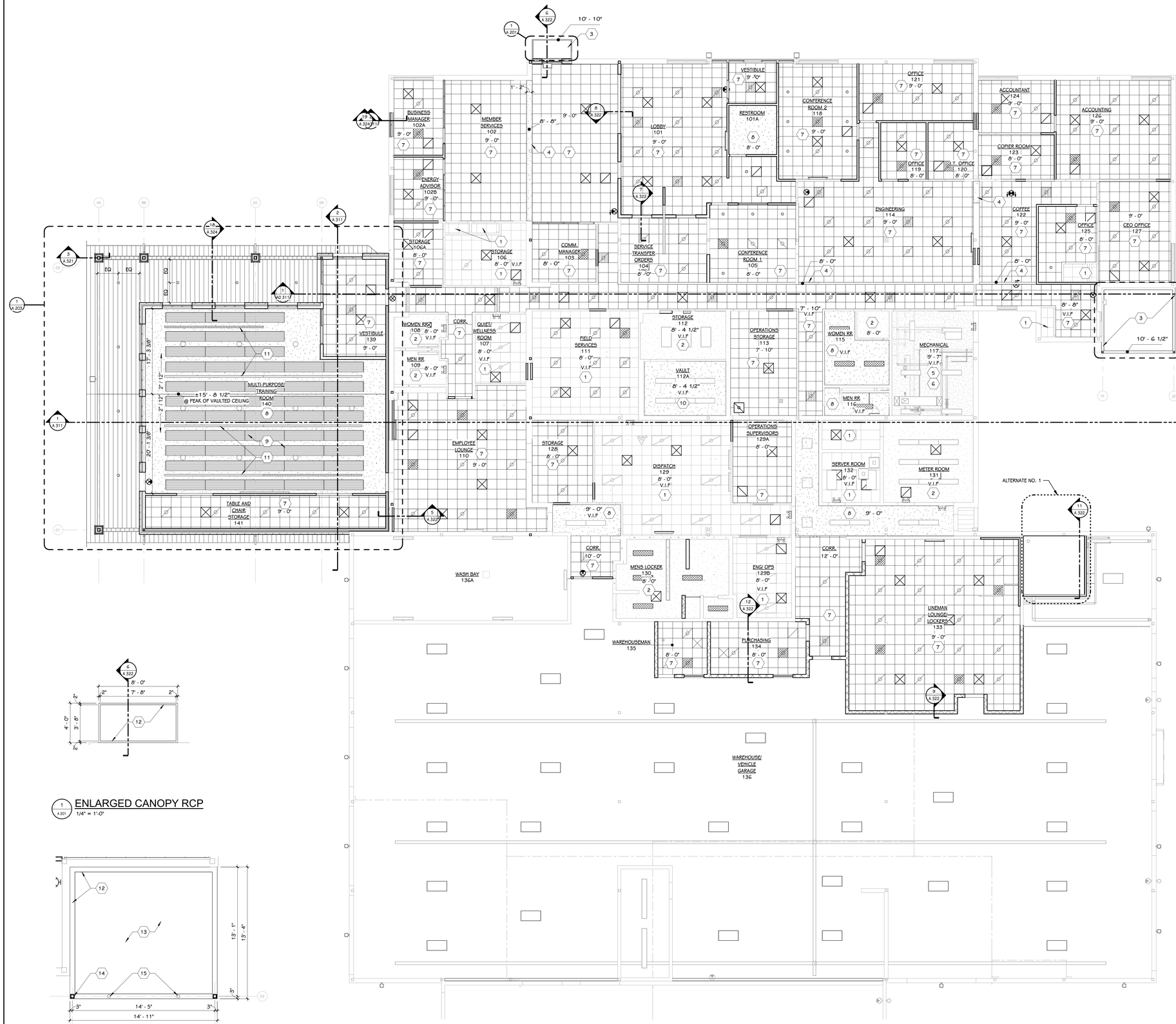
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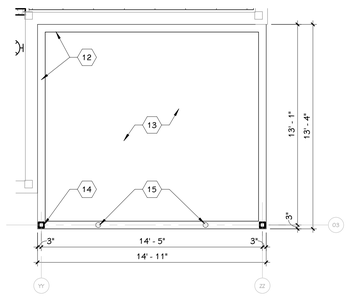
KYLE A. MILLISON REGISTERED NO. AR11900004 STATE OF INDIANA ARCHITECT

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1 ENLARGED CANOPY RCP
1/4" = 1'-0"



2 ENLARGED CANOPY RCP
1/4" = 1'-0"

FIRST FLOOR REFLECTED CEILING PLAN - BUILDING 1
1/8" = 1'-0"

KEY - REFLECTED CEILING

- GYPSUM BOARD
- ACOUSTICAL LAY-IN CEILING SYSTEM
- OR — LIGHTING - REFER TO ELECTRICAL LIGHTING PLAN
- MECHANICAL - REFER TO MECHANICAL SHEET METAL PLAN

GENERAL NOTES - REFLECTED CEILINGS

1. RE-USE EXISTING CEILING TILES DEEMED IN GOOD CONDITION WHENEVER POSSIBLE. PRIORITIZE AREAS WHERE EXISTING GRID IS TO REMAIN, THEN ACCESSORY STORAGE SPACES AND BACK OF HOUSE SPACES. ALL ACOUSTICAL CEILING TILES THAT ARE REMOVED ARE TO BE RETAINED AND PROTECTED DURING CONSTRUCTION. TILES DEEMED IN GOOD CONDITION WILL BE RE-USED IN AREAS WHERE THE CEILING IS MARKED TO REMAIN.
2. IN AREAS WHERE CEILING TILES AND GRID ARE MARKED TO REMAIN, CAREFULLY REMOVE ACOUSTICAL CEILING TILES AND GRID AS NEEDED TO FACILITATE INSTALLATION OF THE SPRINKLER SYSTEM. RETAIN AND PROTECT REMOVED TILES AND GRID DURING CONSTRUCTION AND RE-INSTALL IN EXISTING LOCATION IF IN GOOD CONDITION.
3. IN AREAS WHERE GYPSUM BOARD CEILING IS MARKED TO REMAIN, CUT AND REMOVE SECTIONS OF CEILING ONLY AS NEEDED TO FACILITATE INSTALLATION OF THE SPRINKLER SYSTEM. INSTALL NEW GYPSUM BOARD, PATCH AND REPAINT CEILING AS NOTED ON INTERIOR FINISH PLANS.
4. WHERE CEILING TILE IS LESS THAN 3" AT PERIMETER OF ROOM PROVIDE A CUT 2x4 TILE IN LIEU OF FULL 2x2 TILE AND SMALL PIECE OF TILE OR DOUBLE GRID - MATCH 2x2 FOR STYLE AND COLOR.
5. REFER TO MECHANICAL, ELECTRICAL, AND EQUIPMENT DRAWINGS FOR CLARIFICATION OF SYMBOLS USED ON REFLECTED CEILING PLAN TO ILLUSTRATE LAYOUT OF ITEMS WITHIN CIELING SYSTEM.
6. ALL CEILING HEIGHTS ARE TO BE NOTED. COORDINATE THE FINISHED CEILING HEIGHT WITH ALL OTHER TRADES, AND WITH ALL MECHANICAL, ELECTRICAL, AND OTHER EQUIPMENT AND ITMES ABOVE CEILING.
7. UNLESS SPECIFICALLY DIRECTED OTHERWISE, LOCATE ALL GRILLES, REGISTERS, DIFFUSERS, FIXTURES, OR OTHER SUCH EQUIPMENT FLUSH WITH CEILING SURFACE AND CENTERED ON TILE.
8. SEE FINISH PLAN FOR TYPE AND STYLE OF CEILING SYSTEMS.

KEYED NOTES - ARCHITECTURAL - REFLECTED CEILING

1 EXISTING CEILING TILE AND GRID TO REMAIN

2 EXISTING GYP BD CEILING TO REMAIN

3 NEW CUSTOM PREFABRICATED METAL CANOPY; MAPES LUMIDECK USED AS BASIS OF DESIGN; SEE SECTIONS AND DETAILS

4 NEW GYP BD ON METAL STUD BULKHEAD; FINISH TO MATCH ADJACENT WALLS

5 ALL CEILING ITEMS TO BE MOUNTED BELOW EXISTING CEILING

6 EXISTING PLASTER CEILING TO REMAIN

7 NEW CEILING TILE AND GRID AS SCHEDULED; SEE INTERIOR FINISH PLAN

8 NEW GYP BD CEILING; PRIME & PAINT AS SCHEDULED; SEE INTERIOR FINISH PLANS

9 CEILING SUSPENDED OPEN-ENDED LINEAR ACOUSTICAL BAFFLES. SEE DETAIL 2/A-203

10 EXISTING PRECAST CONCRETE PLANK CEILING TO REMAIN; DRILL OPENINGS FOR SPRINKLER HEADS AS NEEDED

11 LINEAR PENDANT LIGHTING; SEE ELECTRICAL

12 MAPES CANOPY SYSTEM FRAMING; SEE VENDOR DRAWINGS

13 METAL DECK SLOPED TO DRAIN AS SPECIFIED BY CANOPY VENDOR

14 NEW METAL POST AS SPECIFIED BY CANOPY VENDOR

15 DRAIN HOLE AND DOWNSPOUTS PROVIDED BY CANOPY VENDOR

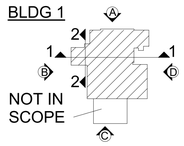
16 PENDANT MICROPHONE ARRAY BY OWNER VENDOR; PROVIDE JUNCTION BOX FOR POWER AND DATA

17 PENDANT SPEAKER ARRAY BY OWNER VENDOR; PROVIDE JUNCTION BOX FOR POWER AND DATA

18 ALTERNATE NO. 2B - INSTALL 26 GAUGE LINER PANELS TO INTERIOR FACE OF METAL BUILDING WALL GIRTS AT ALL EXTERIOR WALLS FROM TOP OF CMU TO BOTTOM OF ROOF PURLINS

HARRISON REMC - RENOVATION

BLDG 1



KEY PLAN
SCALE: NO SCALE

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ARCHITECT

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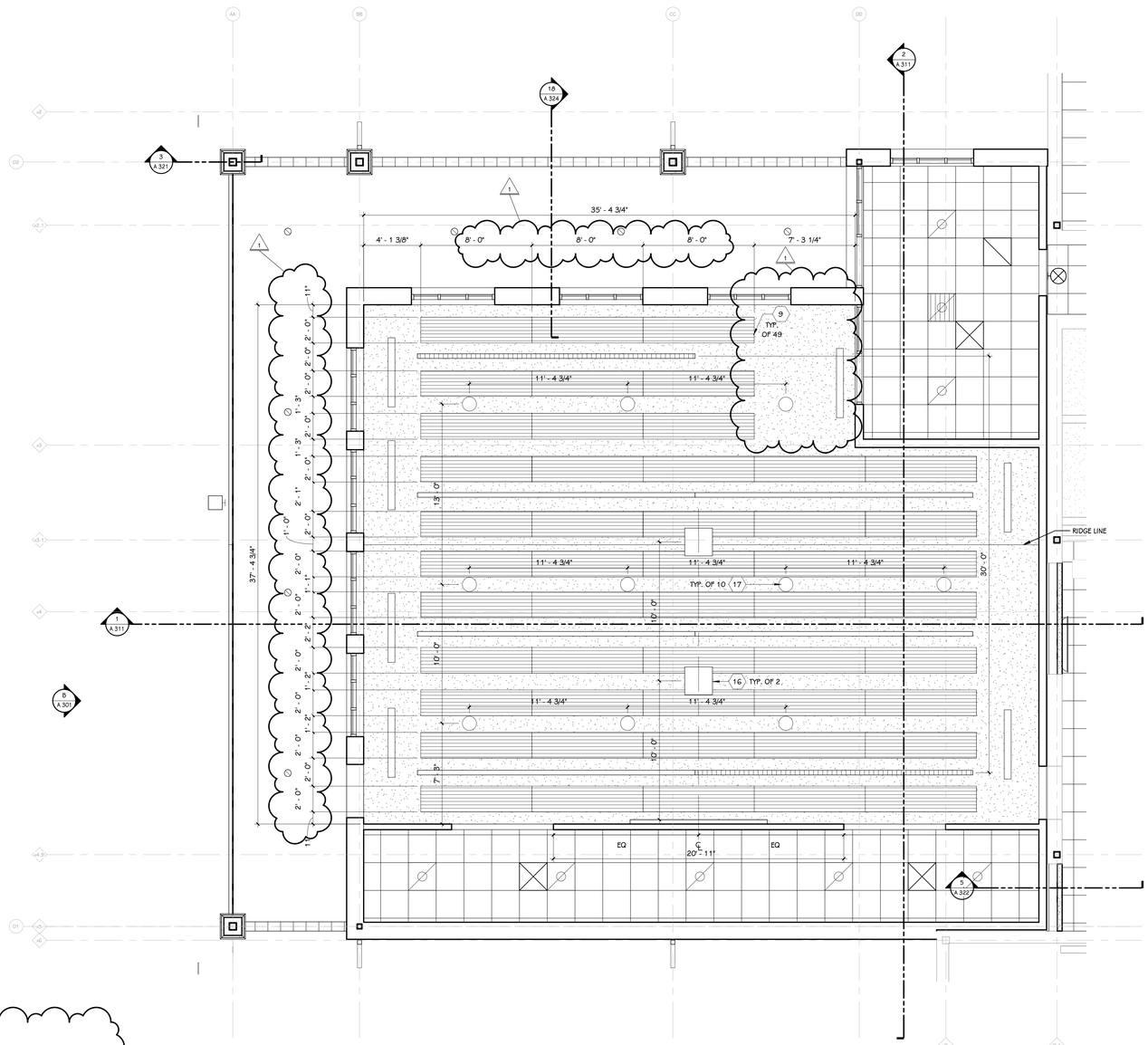
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HARRISON REMC

1165 OLD FOREST RD, CORYDON, IN 47112

SHEET TITLE
FIRST FLOOR REFLECTED CEILING PLAN - BUILDING 1

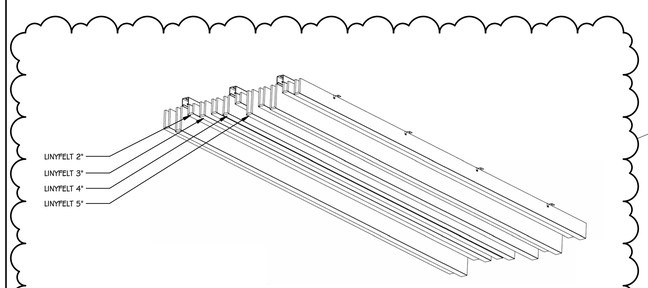
DATE
April 24, 2025

SHEET NUMBER
A 201
24179.00



MULTIPURPOSE ROOM ENLARGED REFLECTED CEILING PLAN
1/4" = 1'-0"

NOTE: ACOUSTICAL PANEL DIMENSIONS ARE FOR GENERAL INSTALLATION. COORDINATE INSTALLATION WITH LIGHTS, SPEAKERS, AND OTHER CEILING MOUNTED ITEMS. ACOUSTICAL PANEL LAYOUT IS SHOWN FOR DESIGN INTENT.



Acoustical Baffle Variable Height Layout
12" = 1'-0"

KEY - REFLECTED CEILING

- GYPSUM BOARD
- ACOUSTICAL LAY-IN CEILING SYSTEM
- OR — LIGHTING - REFER TO ELECTRICAL LIGHTING PLAN
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GENERAL NOTES - REFLECTED CEILINGS

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8. SEE FINISH PLAN FOR TYPE AND STYLE OF CEILING SYSTEMS.

KEYED NOTES - ARCHITECTURAL - REFLECTED CEILING

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7 NEW CEILING TILE AND GRID AS SCHEDULED; SEE INTERIOR FINISH PLAN

8 NEW GYP BD CEILING; PRIME & PAINT AS SCHEDULED; SEE INTERIOR FINISH PLANS

9 CEILING SUSPENDED OPEN-ENDED LINEAR ACOUSTICAL BAFFLES. SEE DETAIL 2/A-203.

10 EXISTING PRECAST CONCRETE PLANK CEILING TO REMAIN; DRILL OPENINGS FOR SPRINKLER HEADS AS NEEDED

11 LINEAR PENDANT LIGHTING; SEE ELECTRICAL

12 MAPES CANOPY SYSTEM FRAMING; SEE VENDOR DRAWINGS

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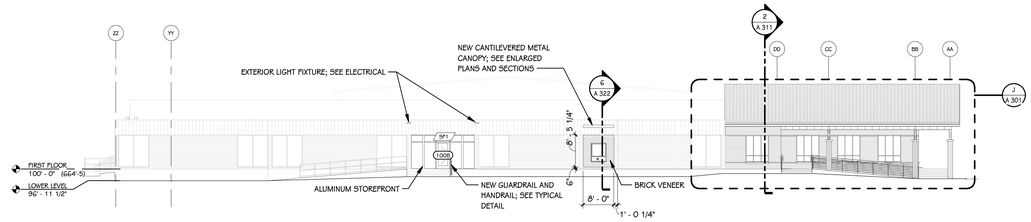
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1165 OLD FOREST RD, CORYDON, IN 47112

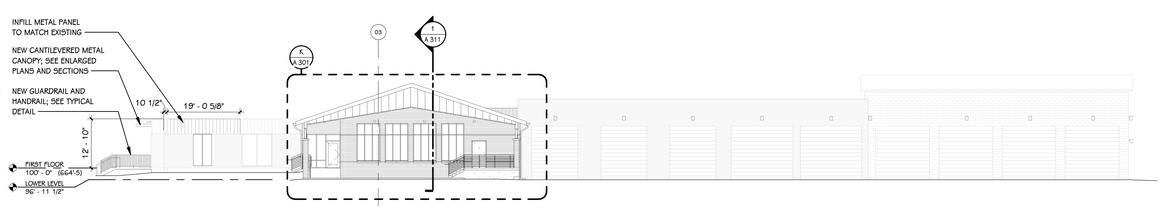
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ENLARGED REFLECTED CEILING PLAN

DATE
April 24, 2025

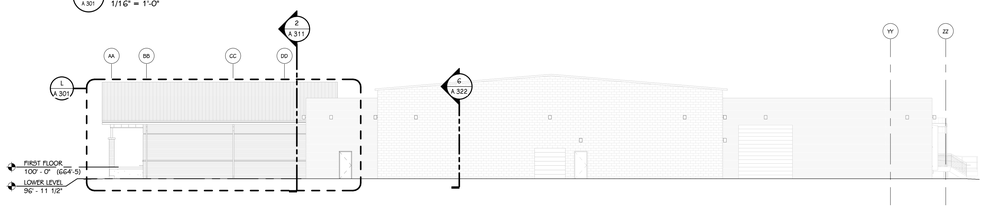
SHEET NUMBER
A 203
24179.00



A A.301 NORTH ELEVATION
1/16" = 1'-0"



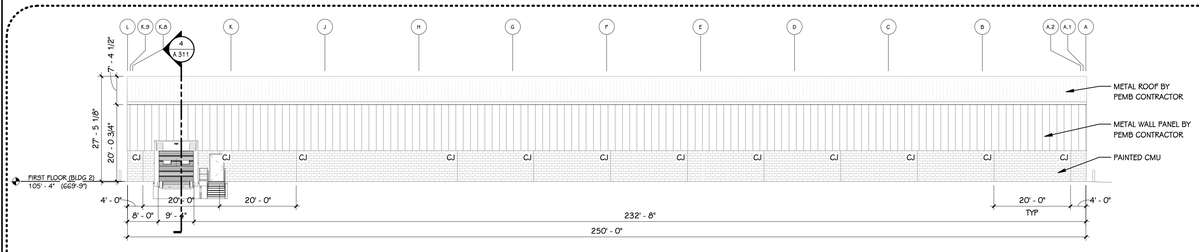
B A.301 WEST ELEVATION
1/16" = 1'-0"



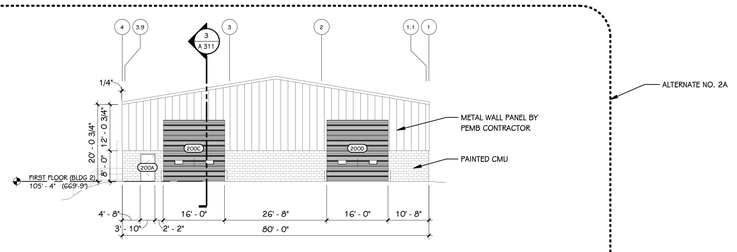
C A.301 SOUTH ELEVATION
1/16" = 1'-0"



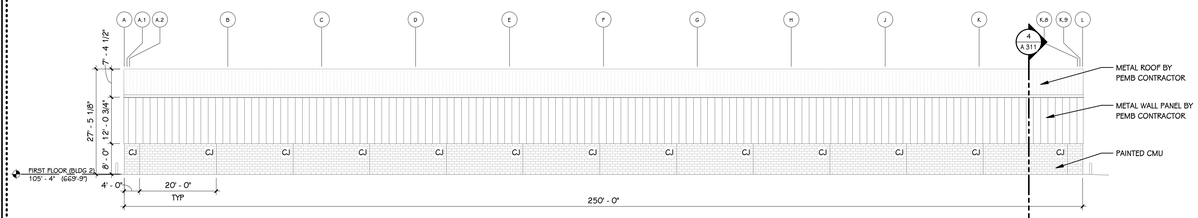
D A.301 EAST ELEVATION
1/16" = 1'-0"



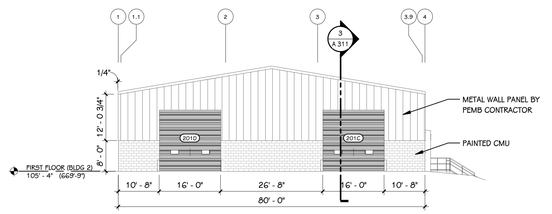
E A.301 BUILDING TWO NORTH ELEVATION - ALTERNATE NO. 2A
1/16" = 1'-0"



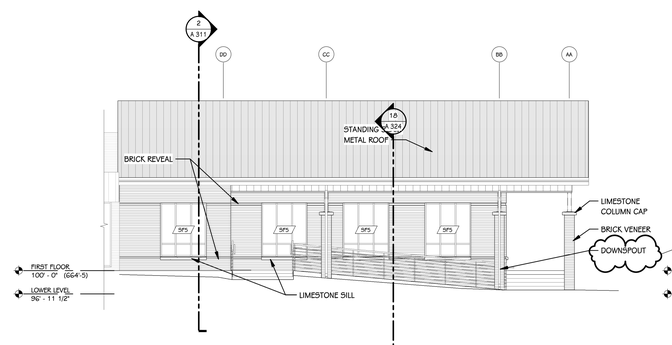
F A.301 BUILDING TWO WEST ELEVATION - ALTERNATE NO. 2A
1/16" = 1'-0"



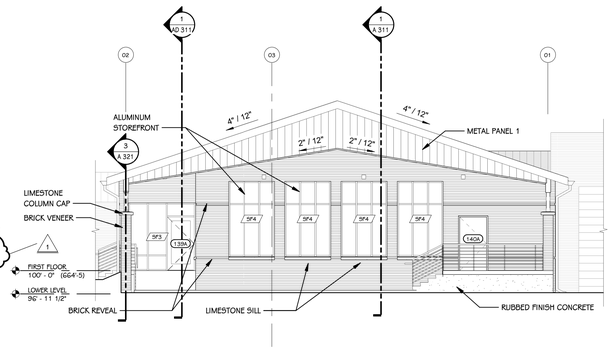
G A.301 BUILDING TWO SOUTH ELEVATION - ALTERNATE 2A
1/16" = 1'-0"



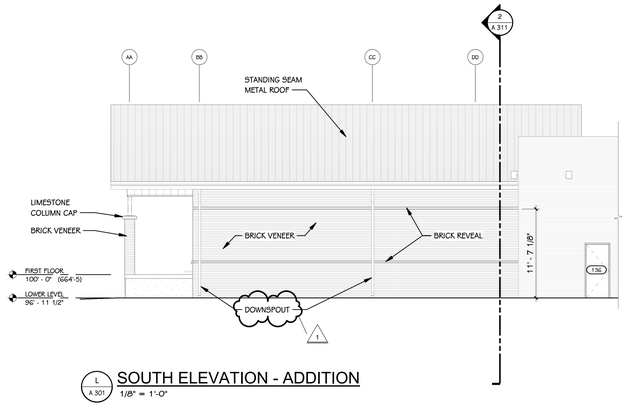
H A.301 BUILDING TWO EAST ELEVATION - ALTERNATE NO. 2A
1/16" = 1'-0"



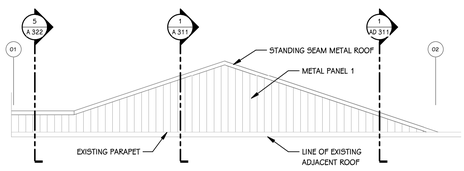
J A.301 NORTH ELEVATION - ADDITION
1/8" = 1'-0"



K A.301 WEST ELEVATION - ADDITION
1/8" = 1'-0"



L A.301 SOUTH ELEVATION - ADDITION
1/8" = 1'-0"



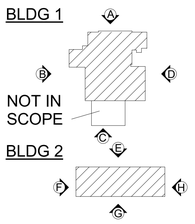
1 A.301 EAST ELEVATION - ADDITION
1/8" = 1'-0"

EXTERIOR ELEVATION KEY

- BRICK VENEER, COLOR: GLEN-GERY - BEIGE GRAY VELOUR
- METAL PANEL 1, COLOR: TBD: TO MATCH EXISTING METAL PANEL
- STANDING SEAM ROOF, COLOR: METAL SALES - BROWN

CJ = CONTROL JOINT, COLOR:
EJ - BUILDING EXPANSION JOINT, COLOR:

HARRISON REMC - RENOVATION



KEY PLAN
SCALE: NO SCALE

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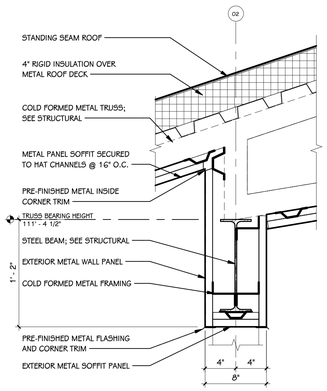
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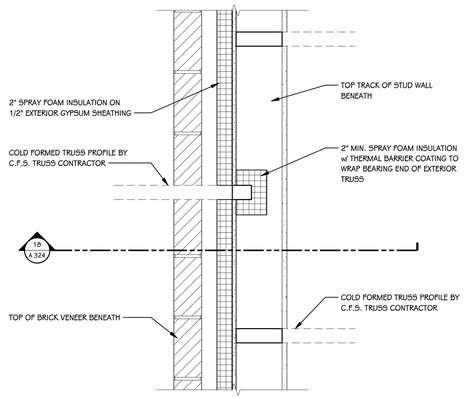
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EXTERIOR ELEVATIONS

DATE
April 24, 2025

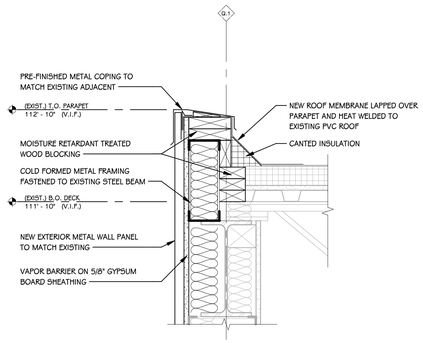
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A 301
24179.00



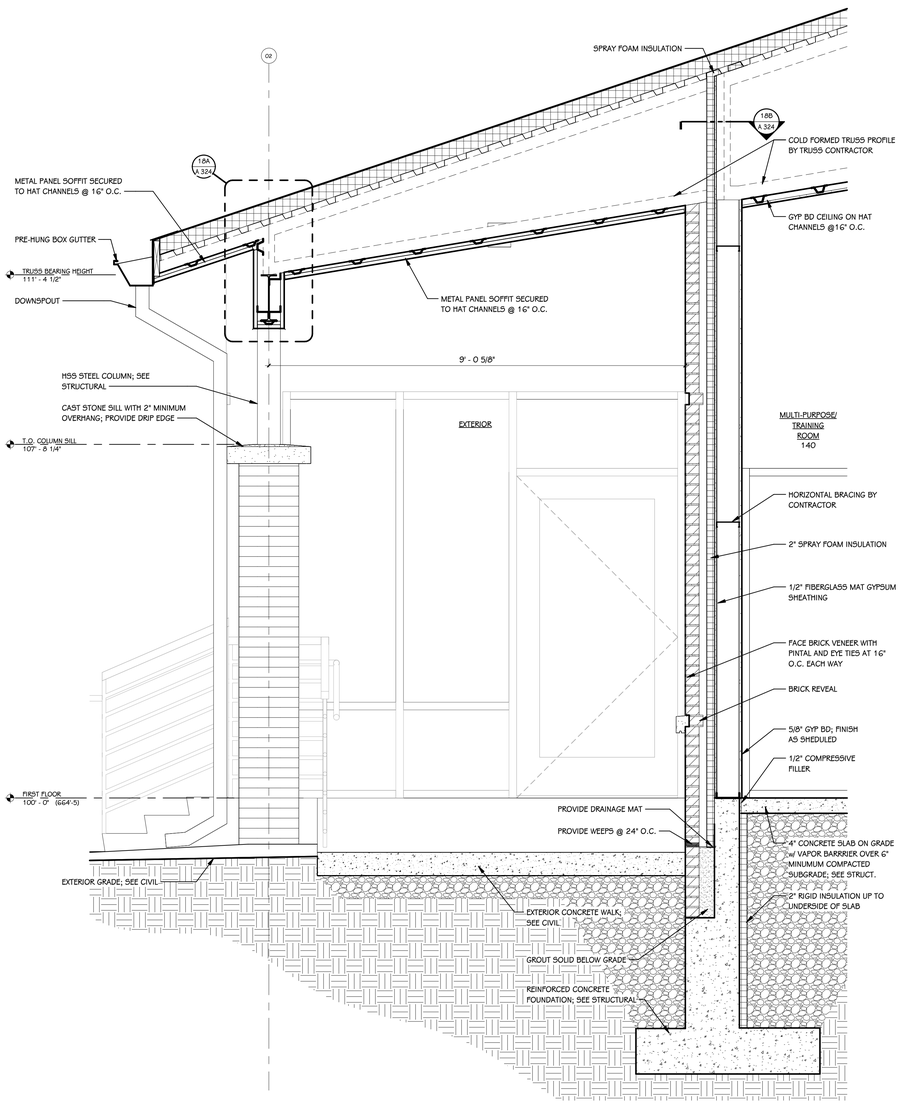
18A / A 324 SECTION DETAIL
1 1/2" = 1'-0"



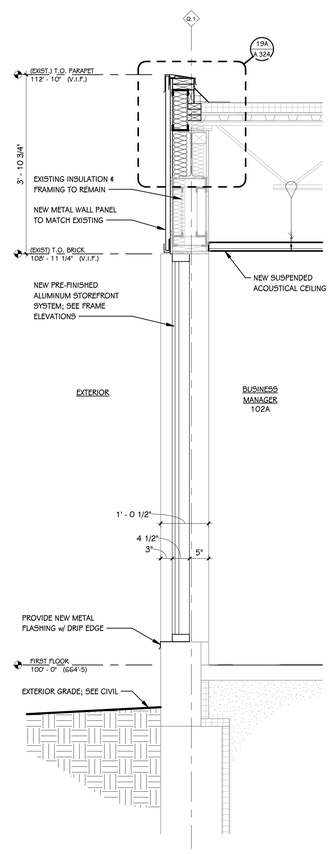
18B / A 324 TRUSS INSULATION DETAIL
1 1/2" = 1'-0"



19A / A 324 SECTION DETAIL
1 1/2" = 1'-0"



18 / A 324 WALL SECTION
3/4" = 1'-0"



19 / A 324 WALL SECTION
3/4" = 1'-0"

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W. L. A. WILSON
REGISTERED
NO. AR11900004
STATE OF
INDIANA
ARCHITECT

ADDENDUM 1	05/07/2025
BID DOCUMENTS	04/24/2025
ISSUED FOR	DATE

PROJECT TITLE
Harrison REMC - ADDITION & RENOVATION

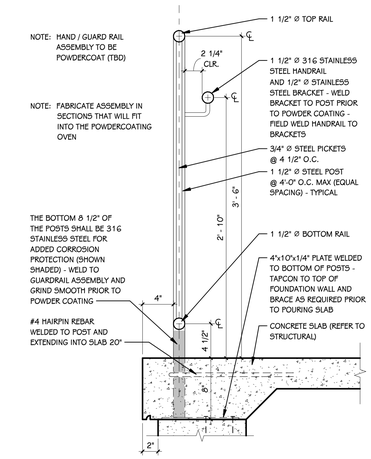
OWNER
HARRISON REMC

1165 OLD FOREST RD, CORYDON, IN 47112

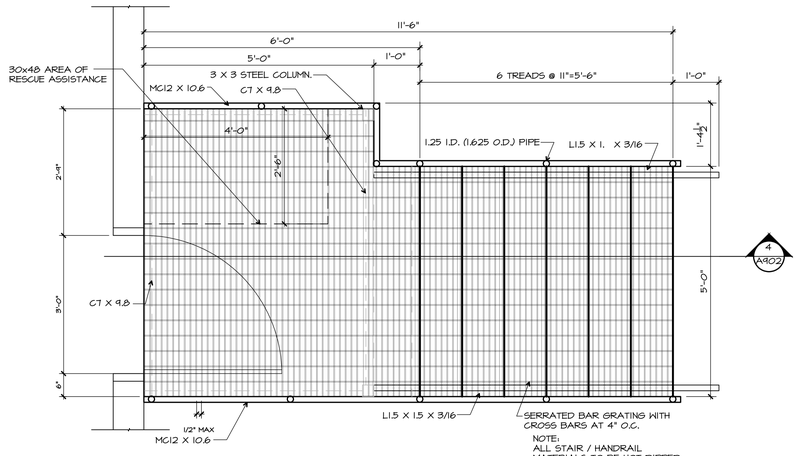
SHEET TITLE
WALL SECTIONS AND DETAILS

DATE
April 24, 2025

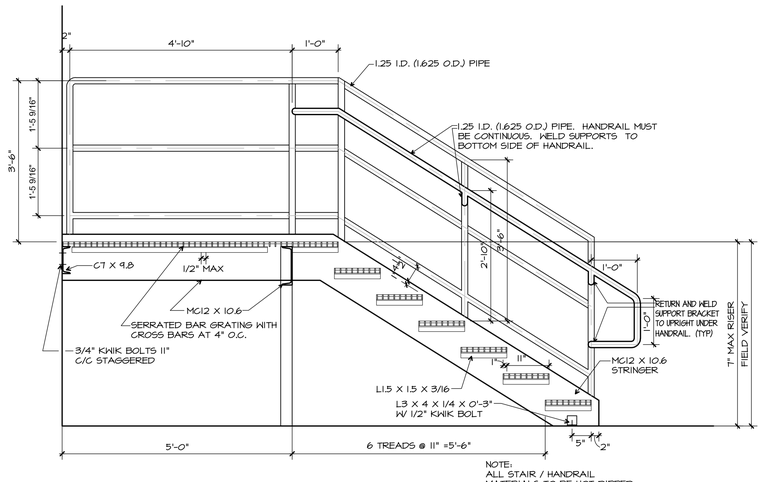
SHEET NUMBER
A 324
24179.00



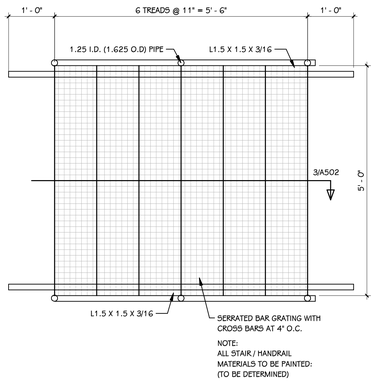
1 A 502 **TYPICAL EXTERIOR HAND / GUARD RAIL SECTION**
1 1/2" = 1'-0"



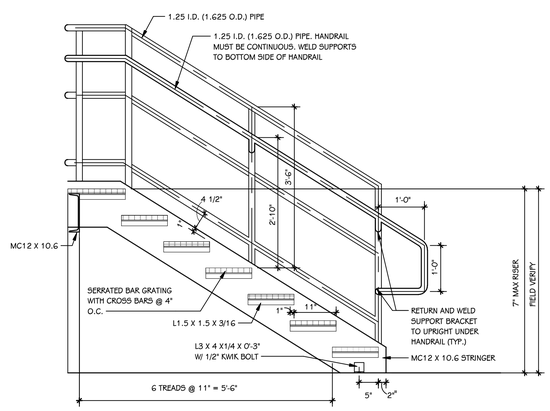
2 A502 **Stair Detail**
SCALE: 3/4"=1'-0"



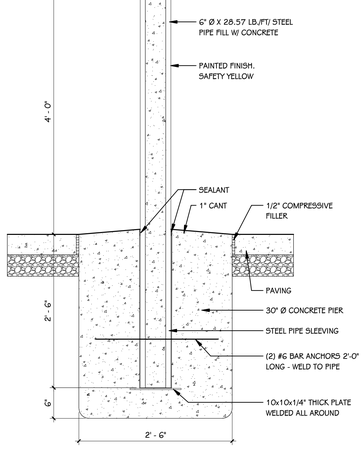
3 A502 **Stair Detail**
SCALE: 3/4"=1'-0"



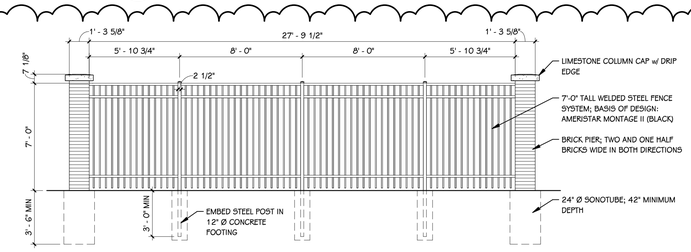
4 A 502 **STAIR PLAN**
3/4" = 1'-0"



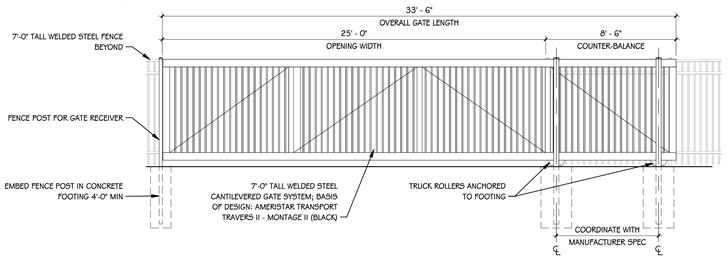
5 A 502 **STAIR SECTION**
3/4" = 1'-0"



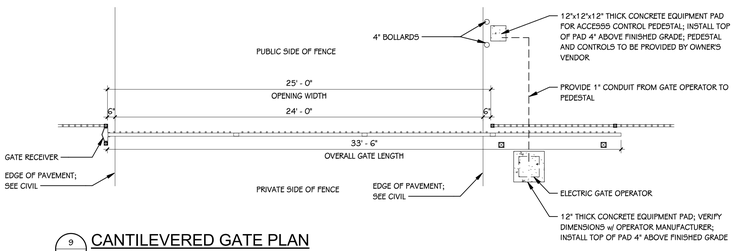
6 A 502 **BOLLARD DETAIL**
1" = 1'-0"



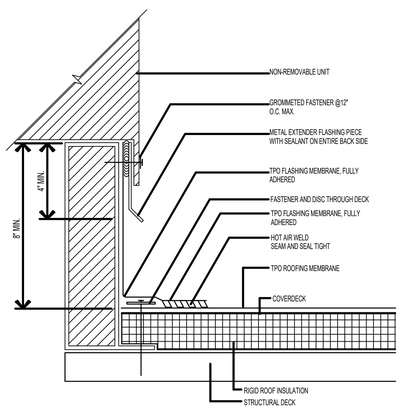
7 A 502 **TYPICAL FENCE AND PIER DETAIL**
1/4" = 1'-0"



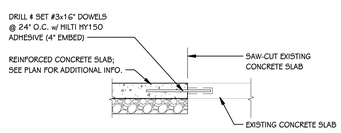
8 A 502 **CANTILEVERED GATE DETAIL**
1/4" = 1'-0"



9 A 502 **CANTILEVERED GATE PLAN**
1/4" = 1'-0"



10 A 502 **TYPICAL ROOFTOP EQUIPMENT CURB DETAIL**
1/2" = 1'-0"



11 A 502 **TYPICAL SECTION AT NEW/EXIST CONC. SLAB**
3/4" = 1'-0"

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PROJECT TITLE
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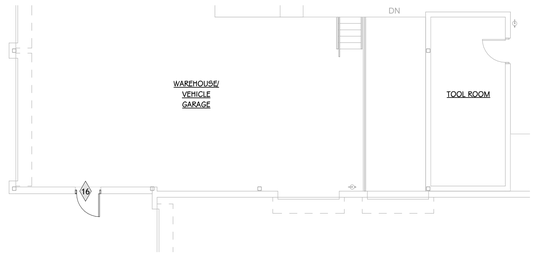
OWNER
HARRISON REMC

1165 OLD FOREST RD, CORYDON, IN 47112

SHEET TITLE
MISCELLANEOUS DETAILS

DATE
April 24, 2025

SHEET NUMBER
A 502
24179.00



General Finish Plan Notes:

1. CONTRACTOR IS RESPONSIBLE TO PROVIDE A SMOOTH AND LEVEL TRANSITION BETWEEN DIFFERENT FLOOR FINISHES. CONTRACTOR TO PROVIDE TRANSITION STRIP BETWEEN ALL DISSIMILAR FLOORING MATERIALS. SEE THIS SHEET FOR DETAILS.
2. ALL NOTATIONS ARE INTENDED TO INDICATE FINISHES FOR ENTIRE AREA OF ITEM-AND ALL EXPOSED SURFACES. INCLUDING WALL-TO-WALL, FLOOR-TO-CEILING, ENTIRE LENGTH OF SURFACE, ALL SIDES, ALL EDGES, AND ALL ASSOCIATED COMPONENTS, UNLESS OTHERWISE NOTED.
3. ALL COLUMNS IN ROOMS AND AREAS ARE TO BE FINISHED TO MATCH WALL SURFACES OF THAT SPACE OR ADJACENT WALLS, UNLESS OTHERWISE NOTED.
4. SEE REFLECTED CEILING PLANS FOR ALL CEILING HEIGHTS AND CLARIFICATION OF MATERIALS.
5. TRANSITIONS BETWEEN DISSIMILAR FLOORING MATERIALS SHOULD OCCUR AT CENTER LINE OF DOOR OPENING. U.O.N
6. INSTALL ALL MATERIALS PER MANUFACTURER'S RECOMMENDATIONS INCLUDING ADHESIVES AND PRIMERS.

FINISH SCHEDULE

Flooring

- C1 MODULAR CARPET TILE- "INTERFACE" 9.845" X 39.38" PATTERN- EG16 COLOR- 103347 PLATINUM INSTALLATION- ASHLAR
- C2 MODULAR WALK-OFF CARPET- "INTERFACE 19.69" X 19.69" PATTERN- SK 899 COLOR- 104938 SMOKE INSTALLATION- MONOLITHIC
- V1 LUXURY VINYL TILE- "INTERFACE" 9.845" X 39.38" PATTERN- CLIFF COLOR- A02403 LIMESTONE INSTALLATION- ASHLAR
- V2 LUXURY VINYL TILE- "INTERFACE" 19.69" X 19.69" PATTERN- RIDGE COLOR- A02304 AGATE INSTALLATION- QUARTER-TURN
- PT1 PORCELAIN TILE- "ATLAS CONCORDE" 8" X 40" PATTERN- HOMELAND COLOR- RYE GROUT COLOR- TO BE SELECTED BY ARCHITECT INSTALLATION- STAGGERED JOINT

Flooring cont.

- PT2 PORCELAIN TILE- "ATLAS CONCORDE" 12" X 24" PATTERN- FORGE COLOR- ALUMINUM GROUT COLOR- COLOR TO BE SELECTED BY ARCHITECT INSTALLATION- 33% OFFSET
- SC SEALED CONCRETE- "SONNEBORN "KURE-N-SEAL" COLOR- CLEAR (1) COATS FOLLOWING CLEANING & PRIOR TO FINAL INSPECTION
- FC CONCRETE FLOOR COATING- SEE SPECIFICATION 09 97 23 COLOR TO BE SELECTED BY ARCH.

Base

- B1 RUBBER MILLWORK BASE- "TARKETT" REVEAL COLOR- BURNT UMBER 6" HIGH
- EF EXISTING BASE- NO FINISH WORK REQUIRED UNLESS OTHERWISE NOTED
- NB NO BASE- NO FINISH WORK REQUIRED UNLESS OTHERWISE NOTED

Walls

- P1 FIELD PAINT- FINISH PAINT, ALL EXPOSED SURFACES: "SHERWIN WILLIAMS" COLOR- SW 7006 EXTRA WHITE
- P2 ACCENT PAINT- FINISH PAINT, ALL EXPOSED SURFACES: "SHERWIN WILLIAMS" COLOR- SW 6220 INTERESTING AQUA
- P3 EPOXY FIELD PAINT- FINISH PAINT, ALL EXPOSED SURFACES: "SHERWIN WILLIAMS" COLOR- SW 7006 EXTRA WHITE
- T1 PORCELAIN WALL TILE- "ATLAS CONCORDE" FORGE 12" X 24" COLOR- ALUMINUM INSTALLATION- SEE ELEVATIONS ON I-300 SERIES DRAWINGS
- T2 GLAZED CERAMIC WALL TILE- "DALTILE" ARTIGIANO 3" X 12" COLOR- ROMAN SKYLLINE AR98 INSTALLATION- SEE ELEVATIONS ON I-300 SERIES DRAWINGS
- W1 WALL PROTECTION- "P3TEC" PATTERN- INFINITY COLOR- IVORY HEIGHT- 3' 6 1/2" TOP CAP TRIM "P3TEC" COLOR- TO BE SELECTED BY ARCHITECT SEE INTERIOR ELEVATIONS
- EW EXISTING WALL FINISH- NO FINISH WORK REQUIRED UNLESS OTHERWISE NOTED

Ceilings

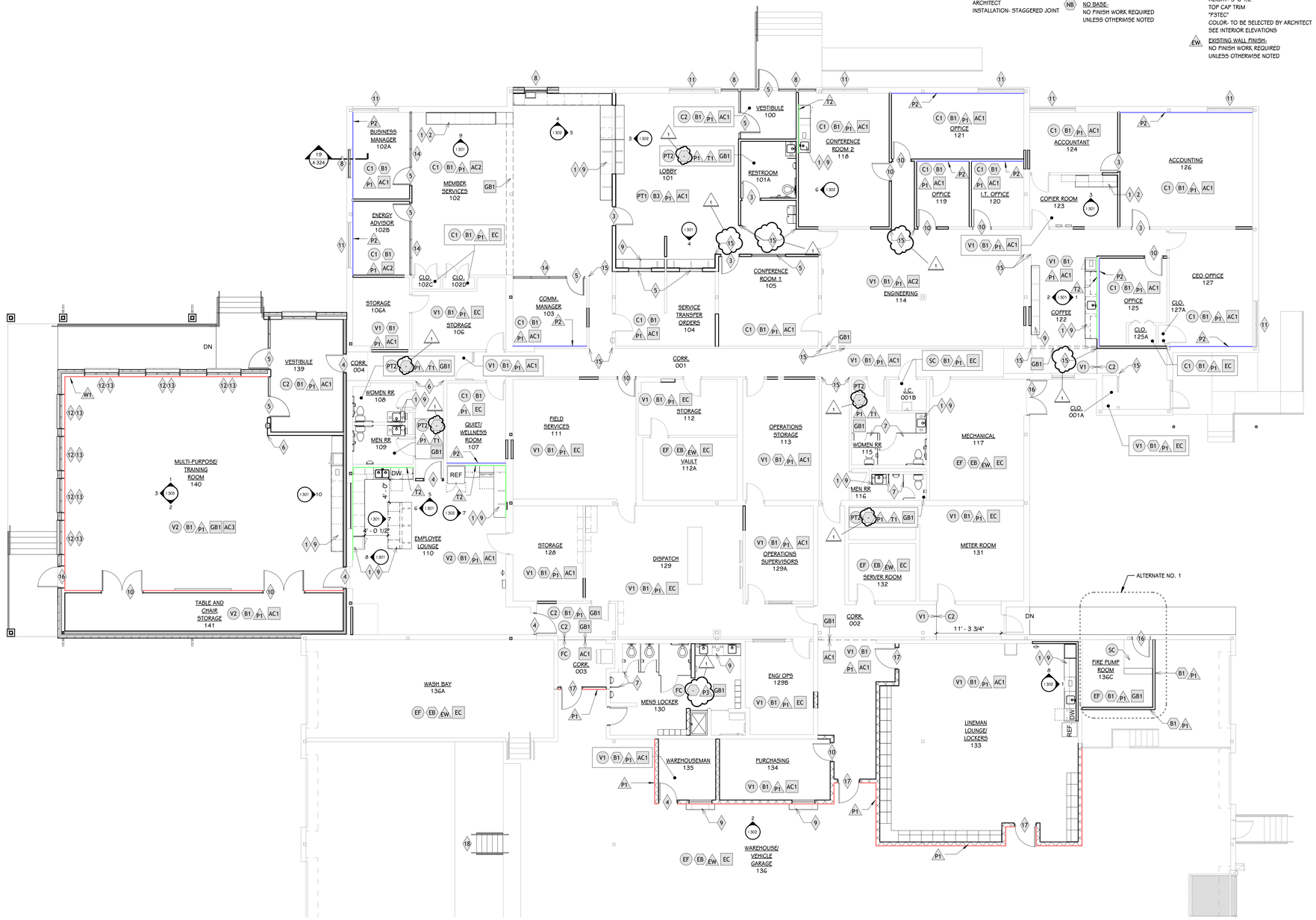
- AC1 ACOUSTICAL CEILING- SEE SPECIFICATION SECTION 09 51 13
- AC2 ACOUSTICAL CEILING (HIGH NRC)- SEE SPECIFICATION SECTION 09 51 13
- AC3 ACOUSTICAL CEILING PANELS- "FRASCH" LINYFELT VARIABLE HEIGHT LAYOUT 8' X 2' COLOR- 44 IVORY SEE A 203 FOR INSTALLATION LOCATIONS
- GB1 GYPSUM BOARD CEILING- FINISH PAINT ALL EXPOSED SURFACES "SHERWIN WILLIAMS" COLOR- SW 7006 EXTRA WHITE SMOOTH TEXTURE AND FINISH REQUIRED
- ES EXPOSED STRUCTURE- NO FINISH WORK REQUIRED
- EC EXISTING CEILING- NO FINISH WORK REQUIRED UNLESS OTHERWISE NOTED

Specialties

1. PLASTIC LAMINATE CASEWORK- ALL EXPOSED SURFACES; "WILSONART" COLOR- MAGNOLIA 5012K-19
2. PLASTIC LAMINATE COUNTERTOP- ALL EXPOSED SURFACES; "WILSONART" COLOR- PEARL SOAPSTONE 4886-38
3. WOOD DOOR & HOLLOW METAL FRAME- DOOR SPECIES- WHITE OAK, PLAIN SLICED STAIN COLOR- CUSTOM STAIN TO MATCH EXISTING DOORS METAL FRAME- FINISH PAINT, ALL EXPOSED SURFACES; "SHERWIN WILLIAMS" COLOR- SW 7069 IRON ORE
4. HOLLOW METAL DOOR & FRAME- FINISH PAINT, ALL EXPOSED SURFACES "SHERWIN WILLIAMS" COLOR- SW 7069 IRON ORE
5. ALUMINUM STOREFRONT- PRE-FINISHED
6. CORNER GUARD- "MOMENTUM" P3TEC CORNER GUARD 8'-0" HIGH, 1 1/2" LEG LENGTH COLOR- CC130 CHINA CLAY
7. SOLID PLASTIC TOILET PARTITIONS & URINAL SCREEN- "HINY HIDERS" COLOR- BLACK TEXTURE- ORANGE PEEL
8. WINDOW SHADES- "SHEERWEAVE" STYLE- 2360 10% OPENNESS COLOR- V21 CHARCOAL
9. SOLID SURFACE COUNTERTOP- ALL EXPOSED SURFACES; "CORIAN" COLOR- NEUTRAL CONCRETE
10. SALVAGED WOOD DOOR AND METAL FRAME- METAL FRAME- FINISH PAINT, ALL EXPOSED SURFACES; "SHERWIN WILLIAMS" COLOR- SW 7069 IRON ORE TOUCH UP STAIN ON WOOD DOORS
11. EXISTING WINDOW SHADES- EXISTING WINDOW SHADES TO REMAIN
12. DUAL WINDOW SHADES- DUAL ROLLER SHADES; MESH SHADE FABRIC- "SHEERWEAVE" STYLE 2360, 10% OPENNESS; COLOR- V21 CHARCOAL; BLACKOUT SHADE FABRIC- "SHEERWEAVE" STYLE 7100 BLACKOUT, 0% OPENNESS COLOR- V21 CHARCOAL
13. SOLID SURFACE WINDOW SILL- ALL EXPOSED SURFACES; "CORIAN" COLOR- DEEP NOCTURNE
14. DECORATIVE WINDOW FILM- "3M" CRYSTAL GLASS FINISHES STYLE- 77255E-324 FROSTED CRYSTAL SEE WINDOW ELEVATIONS FOR PLACEMENT AND DIMENSIONS
15. CORNER GUARD- "INPRO" 150 HIGH IMPACT CORNER GUARD 8'-0" HIGH, 3" WING COLOR- TO BE SELECTED BY ARCHITECT
16. HOLLOW METAL DOOR & FRAME- FINISH PAINT, ALL EXPOSED INTERIOR SURFACES "SHERWIN WILLIAMS" COLOR- MATCH ADJACENT WALL FINISH PAINT, ALL EXPOSED EXTERIOR SURFACES "SHERWIN WILLIAMS" COLOR- TO BE SELECTED BY ARCHITECT
17. FRP DOOR AND HOLLOW METAL FRAME- PRE-FINISHED DOOR COLOR- TO BE SELECTED BY ARCHITECT FINISH PAINT FRAME, ALL EXPOSED SURFACES "SHERWIN WILLIAMS" COLOR- 7006 EXTRA WHITE
18. STEEL STAIRS, GUARDRAILS AND HANDRAILS FINISH PAINT, ALL EXPOSED SURFACES "SHERWIN WILLIAMS" COLOR- TO BE SELECTED BY ARCHITECT

WAREHOUSE/VEHICLE GARAGE FINISH PLAN

1/8" = 1'-0"

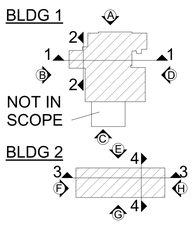


FIRST FLOOR FINISH PLAN - AREA A

1/8" = 1'-0"

THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

HARRISON REMC - RENOVATION



KEY PLAN
SCALE: NO SCALE

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W.L.E.A. WILSON REGISTERED NO. AR11900004 STATE OF INDIANA ARCHITECT

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PROJECT TITLE
Harrison REMC - ADDITION & RENOVATION

OWNER
HARRISON REMC

1165 OLD FOREST RD, CORYDON, IN 47112

SHEET TITLE
FIRST FLOOR FINISH PLAN & SCHEDULE - BUILDING 1

DATE
April 24, 2025

SHEET NUMBER
I 101

24179.00

General Finish Plan Notes:

1. CONTRACTOR IS RESPONSIBLE TO PROVIDE A SMOOTH AND LEVEL TRANSITION BETWEEN DIFFERENT FLOOR FINISHES. CONTRACTOR TO PROVIDE TRANSITION STRIP BETWEEN ALL DISSIMILAR FLOORING MATERIALS. SEE THIS SHEET FOR DETAILS.
2. ALL NOTATIONS ARE INTENDED TO INDICATE FINISHES FOR ENTIRE AREA OF ITEM-AND ALL EXPOSED SURFACES. INCLUDING WALL-TO-WALL, FLOOR-TO-CEILING, ENTIRE LENGTH OF SURFACE, ALL SIDES, ALL EDGES, AND ALL ASSOCIATED COMPONENTS, UNLESS OTHERWISE NOTED.
3. ALL COLUMNS IN ROOMS AND AREAS ARE TO BE FINISHED TO MATCH WALL SURFACES OF THAT SPACE OR ADJACENT WALLS, UNLESS OTHERWISE NOTED.
4. SEE REFLECTED CEILING PLANS FOR ALL CEILING HEIGHTS AND CLARIFICATION OF MATERIALS.
5. TRANSITIONS BETWEEN DISSIMILAR FLOORING MATERIALS SHOULD OCCUR AT CENTER LINE OF DOOR OPENING. U.O.N
6. INSTALL ALL MATERIALS PER MANUFACTURER'S RECOMMENDATIONS INCLUDING ADHESIVES AND PRIMERS.

FINISH SCHEDULE

Flooring

- C1 MODULAR CARPET TILE-
  "INTERFACE"
  9.845" X 39.38"
  PATTERN- EG16
  COLOR- 103347 PLATINUM
  INSTALLATION- ASHLAR
- C2 MODULAR WALK-OFF CARPET-
  "INTERFACE
  19.69" X 19.69"
  PATTERN- SK 899
  COLOR- 104938 SMOKE
  INSTALLATION- MONOLITHIC
- V1 LUXURY VINYL TILE-
  "INTERFACE"
  9.845" X 39.38"
  PATTERN- CLIFF
  COLOR- A02403 LIMESTONE
  INSTALLATION- ASHLAR
- V2 LUXURY VINYL TILE-
  "INTERFACE"
  19.69" X 19.69"
  PATTERN- RIDGE
  COLOR- A02304 AGATE
  INSTALLATION- QUARTER-TURN
- PT1 PORCELAIN TILE-
  "ATLAS CONCORDE"
  8" X 40"
  PATTERN- HOMELAND
  COLOR- RYE
  GROUT COLOR- TO BE SELECTED BY ARCHITECT
  INSTALLATION- STAGGERED JOINT

Flooring cont.

- PT2 PORCELAIN TILE-
  "ATLAS CONCORDE"
  12" X 24"
  PATTERN- FORGE
  COLOR- ALUMINUM
  GROUT COLOR- COLOR TO BE SELECTED BY ARCHITECT
  INSTALLATION- 33% OFFSET
- SC SEALED CONCRETE-
  "SONNEBORN" "KURE-N-SEAL"
  COLOR- CLEAR
  (1) COATS FOLLOWING CLEANING & PRIOR TO FINAL INSPECTION
- FC CONCRETE FLOOR COATING-
  SEE SPECIFICATION 09 97 23
  COLOR TO BE SELECTED BY ARCH.

Base

- B1 RUBBER MILLWORK BASE-
  "TARKETT" REVEAL
  COLOR- BURNT UMBER
  6" HIGH
- EF EXISTING BASE-
  NO FINISH WORK REQUIRED UNLESS OTHERWISE NOTED
- NB NO BASE-
  NO FINISH WORK REQUIRED UNLESS OTHERWISE NOTED

Walls

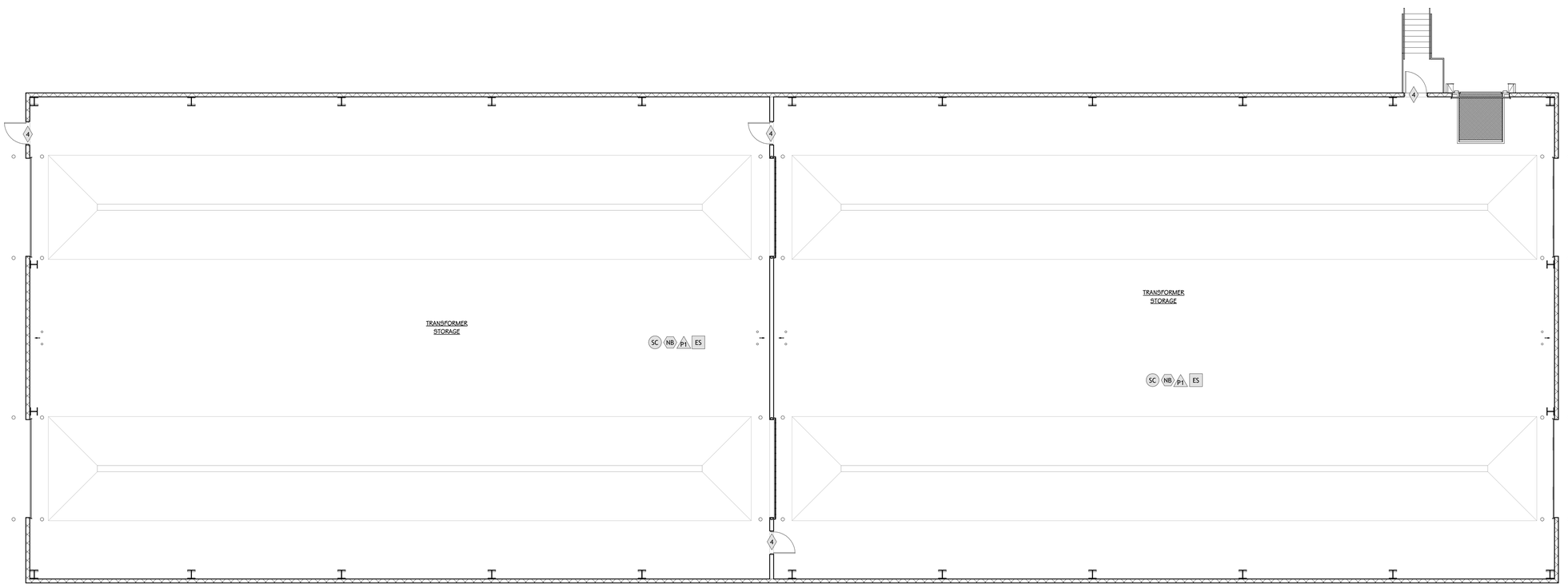
- P1 FIELD PAINT-
  FINISH PAINT, ALL EXPOSED SURFACES:
  "SHERWIN WILLIAMS"
  COLOR- SW 7006 EXTRA WHITE
- P2 ACCENT PAINT-
  FINISH PAINT, ALL EXPOSED SURFACES:
  "SHERWIN WILLIAMS"
  COLOR- SW 6220 INTERESTING AQUA
- P3 EPOXY FIELD PAINT-
  FINISH PAINT, ALL EXPOSED SURFACES
  "SHERWIN WILLIAMS"
  COLOR- SW 7006 EXTRA WHITE
- T1 PORCELAIN WALL TILE-
  "ATLAS CONCORDE" FORGE
  12" X 24"
  COLOR- ALUMINUM
  INSTALLATION- SEE ELEVATIONS ON I-300 SERIES DRAWINGS
- T2 GLAZED CERAMIC WALL TILE-
  "DALTILE" ARTIGIANO
  3" X 12"
  COLOR- ROMAN SKYLLINE AR98
  INSTALLATION- SEE ELEVATIONS ON I-300 SERIES DRAWINGS
- W1 WALL PROTECTION-
  "P3TEC"
  PATTERN- INFINITY
  COLOR- IVORY
  HEIGHT- 3' 6 1/2"
  TOP CAP TRIM
  "P3TEC"
  COLOR- TO BE SELECTED BY ARCHITECT
  SEE INTERIOR ELEVATIONS
- EW EXISTING WALL FINISH-
  NO FINISH WORK REQUIRED UNLESS OTHERWISE NOTED

Ceilings

- AC1 ACOUSTICAL CEILING-
  SEE SPECIFICATION SECTION 09 51 13
- AC2 ACOUSTICAL CEILING (HIGH NRC)-
  SEE SPECIFICATION SECTION 09 51 13
- AC3 ACOUSTICAL CEILING PANELS-
  "TRASCH" LINYFELT VARIABLE HEIGHT LAYOUT
  8' X 2'
  COLOR- 44 IVORY
  SEE A 203 FOR INSTALLATION LOCATIONS
- GB1 GYPSUM BOARD CEILING-
  FINISH PAINT ALL EXPOSED SURFACES
  "SHERWIN WILLIAMS"
  COLOR- SW 7006 EXTRA WHITE
  SMOOTH TEXTURE AND FINISH REQUIRED
- ES EXPOSED STRUCTURE-
  NO FINISH WORK REQUIRED
- EC EXISTING CEILING-
  NO FINISH WORK REQUIRED UNLESS OTHERWISE NOTED

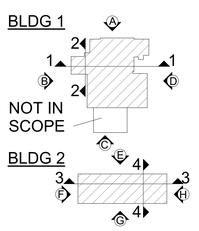
Specialties

1. PLASTIC LAMINATE CASEWORK-
   ALL EXPOSED SURFACES;
   "WILSONART"
   COLOR- MAGNOLIA 5012K-19
2. PLASTIC LAMINATE COUNTERTOP-
   ALL EXPOSED SURFACES;
   "WILSONART"
   COLOR- PEARL SOAPSTONE 4886-38
3. WOOD DOOR & HOLLOW METAL FRAME-
   DOOR SPECIES- WHITE OAK, PLAIN SLICED
   STAIN COLOR- CUSTOM STAIN TO MATCH EXISTING DOORS
   METAL FRAME- FINISH PAINT, ALL EXPOSED SURFACES;
   "SHERWIN WILLIAMS"
   COLOR- SW 7069 IRON ORE
4. HOLLOW METAL DOOR & FRAME-
   FINISH PAINT, ALL EXPOSED SURFACES
   "SHERWIN WILLIAMS"
   COLOR- SW 7069 IRON ORE
5. ALUMINUM STOREFRONT-
   PRE FINISHED
6. CORNER GUARD-
   "MOMENTUM"
   P3TEC CORNER GUARD
   8'-0" HIGH, 1 1/2" LEG LENGTH
   COLOR- CG130 CHINA CLAY
7. SOLID PLASTIC TOILET PARTITIONS & URINAL SCREEN-
   "HINY HIDERS"
   COLOR- BLACK
   TEXTURE- ORANGE PEEL
8. WINDOW SHADES-
   "SHEERWEAVE"
   STYLE- 2360
   10% OPENNESS
   COLOR- V21 CHARCOAL
9. SOLID SURFACE COUNTERTOP-
   ALL EXPOSED SURFACES;
   "CORIAN"
   COLOR- NEUTRAL CONCRETE
10. SALVAGED WOOD DOOR AND METAL FRAME-
    METAL FRAME- FINISH PAINT, ALL EXPOSED SURFACES;
    "SHERWIN WILLIAMS"
    COLOR- SW 7069 IRON ORE
    TOUCH UP STAIN ON WOOD DOORS
11. EXISTING WINDOW SHADES-
    EXISTING WINDOW SHADES TO REMAIN
12. DUAL WINDOW SHADES-
    DUAL ROLLER SHADES;
    MESH SHADE FABRIC- "SHEERWEAVE" STYLE 2360, 10% OPENNESS;
    COLOR- V21 CHARCOAL;
    BLACKOUT SHADE FABRIC-
    "SHEERWEAVE" STYLE 7100 BLACKOUT, 0% OPENNESS
    COLOR- V21 CHARCOAL
13. SOLID SURFACE WINDOW SILL-
    ALL EXPOSED SURFACES;
    "CORIAN"
    COLOR- DEEP NOCTURNE
14. DECORATIVE WINDOW FILM-
    "3M" CRYSTAL GLASS FINISHES
    STYLE- 77255E-324 FROSTED CRYSTAL
    SEE WINDOW ELEVATIONS FOR PLACEMENT AND DIMENSIONS
15. CORNER GUARD-
    "INPRO"
    150 HIGH IMPACT CORNER GUARD
    8'-0" HIGH, 3" WING
    COLOR- TO BE SELECTED BY ARCHITECT
16. HOLLOW METAL DOOR & FRAME-
    FINISH PAINT, ALL EXPOSED INTERIOR SURFACES
    "SHERWIN WILLIAMS"
    COLOR- MATCH ADJACENT WALL
    FINISH PAINT, ALL EXPOSED EXTERIOR SURFACES
    "SHERWIN WILLIAMS"
    COLOR- TO BE SELECTED BY ARCHITECT
17. FRP DOOR AND HOLLOW METAL FRAME-
    PRE-FINISHED DOOR
    COLOR- TO BE SELECTED BY ARCHITECT
    FINISH PAINT FRAME, ALL EXPOSED SURFACES
    "SHERWIN WILLIAMS"
    COLOR- 7006 EXTRA WHITE
18. STEEL STAIRS, GUARDRAILS AND HANDRAILS
    FINISH PAINT, ALL EXPOSED SURFACES
    "SHERWIN WILLIAMS"
    COLOR- TO BE SELECTED BY ARCHITECT



THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

HARRISON REMC - RENOVATION



KEY PLAN
SCALE: NO SCALE

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W. E. A. WILSON REGISTERED NO. AR11900004 STATE OF INDIANA ARCHITECT

ADDENDUM 1	05/07/2025
BID DOCUMENTS	04/24/2025
ISSUED FOR	DATE

PROJECT TITLE
Harrison REMC - ADDITION & RENOVATION

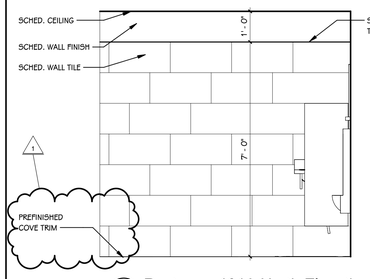
OWNER
HARRISON REMC

1165 OLD FOREST RD, CORYDON, IN 47112

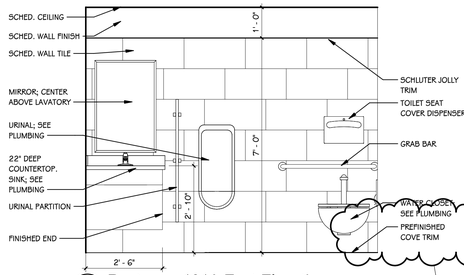
SHEET TITLE
FIRST FLOOR FINISH PLAN & SCHEDULE - BUILDING 2

DATE
April 24, 2025

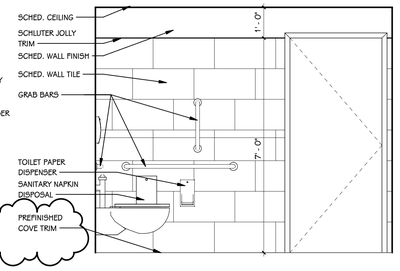
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I 102
24179.00



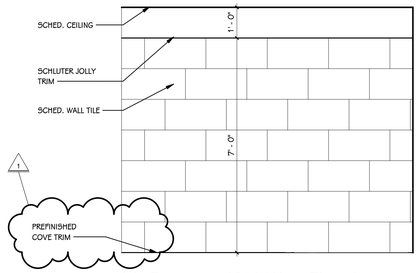
1 / I 303 Restroom 101A North Elevation
1/2" = 1'-0"



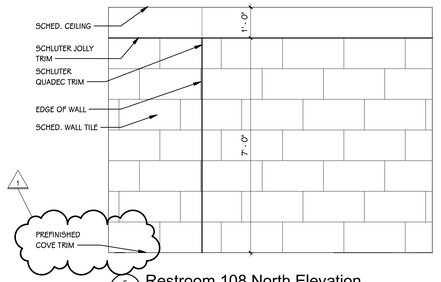
2 / I 303 Restroom 101A East Elevation
1/2" = 1'-0"



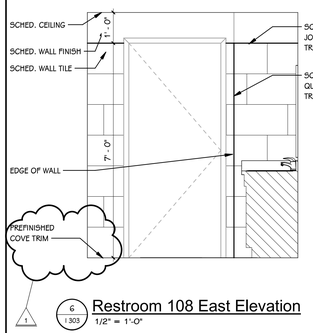
3 / I 303 Restroom 101A South Elevation
1/2" = 1'-0"



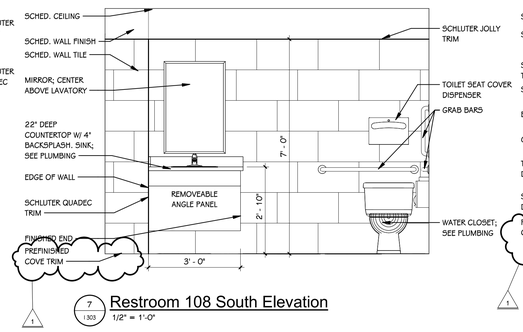
4 / I 303 Restroom 101A West Elevation
1/2" = 1'-0"



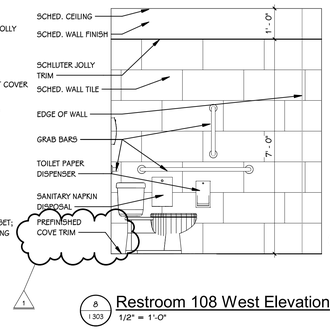
5 / I 303 Restroom 108 North Elevation
1/2" = 1'-0"



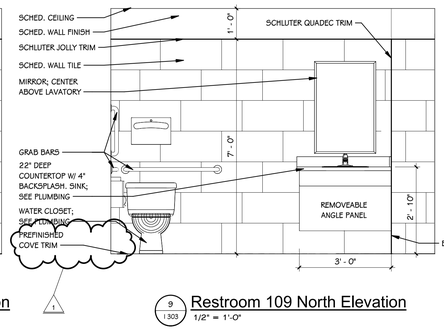
6 / I 303 Restroom 108 East Elevation
1/2" = 1'-0"



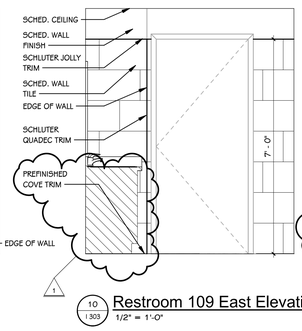
7 / I 303 Restroom 108 South Elevation
1/2" = 1'-0"



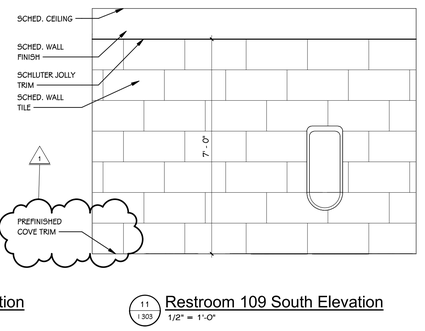
8 / I 303 Restroom 108 West Elevation
1/2" = 1'-0"



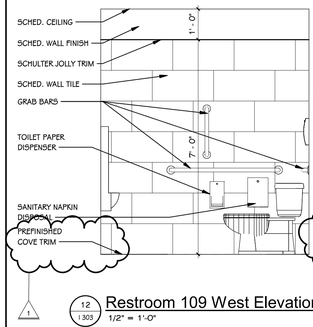
9 / I 303 Restroom 109 North Elevation
1/2" = 1'-0"



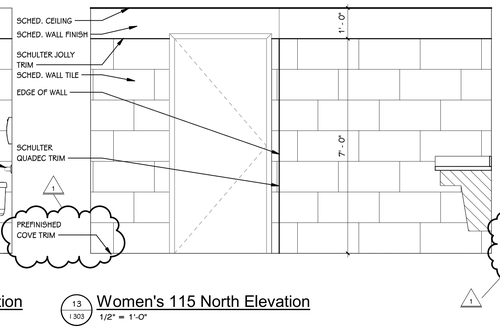
10 / I 303 Restroom 109 East Elevation
1/2" = 1'-0"



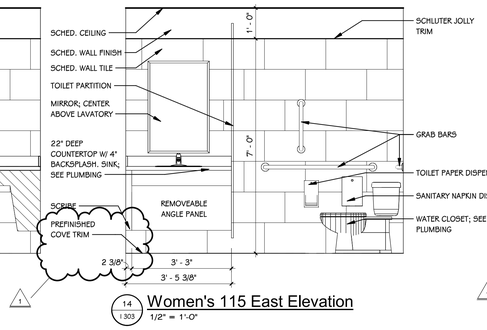
11 / I 303 Restroom 109 South Elevation
1/2" = 1'-0"



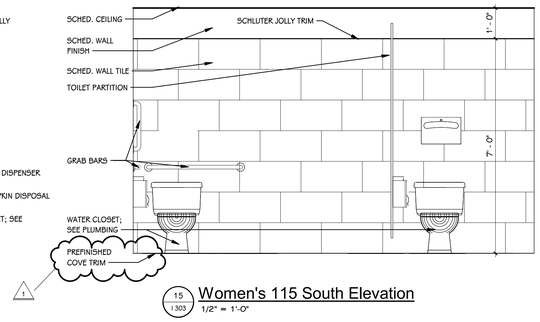
12 / I 303 Restroom 109 West Elevation
1/2" = 1'-0"



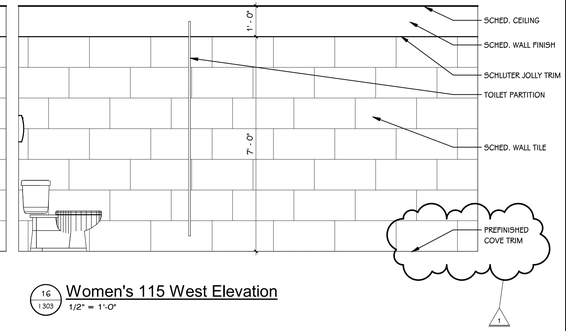
13 / I 303 Women's 115 North Elevation
1/2" = 1'-0"



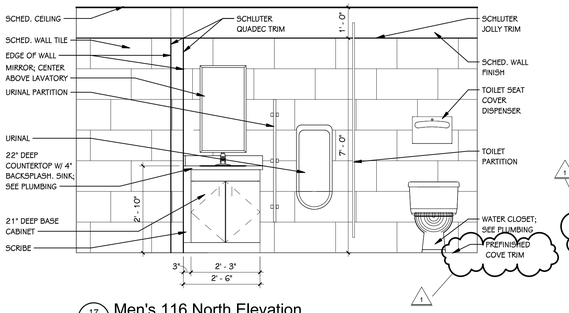
14 / I 303 Women's 115 East Elevation
1/2" = 1'-0"



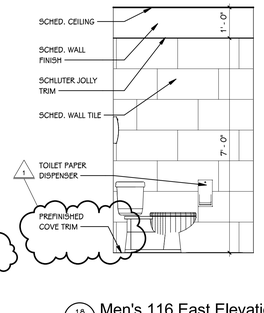
15 / I 303 Women's 115 South Elevation
1/2" = 1'-0"



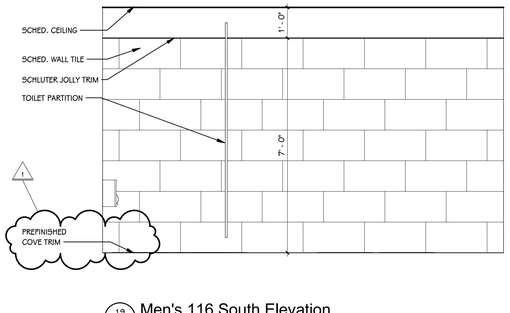
16 / I 303 Women's 115 West Elevation
1/2" = 1'-0"



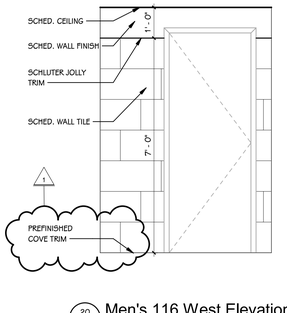
17 / I 303 Men's 116 North Elevation
1/2" = 1'-0"



18 / I 303 Men's 116 East Elevation
1/2" = 1'-0"



19 / I 303 Men's 116 South Elevation
1/2" = 1'-0"



20 / I 303 Men's 116 West Elevation
1/2" = 1'-0"

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KYLE A. WILSON
REGISTERED
NO. AR11900004
STATE OF
INDIANA
ARCHITECT

ADDENDUM 1	05/07/2025
BID DOCUMENTS	04/24/2025
ISSUED FOR	DATE

PROJECT TITLE
Harrison REMC - ADDITION & RENOVATION

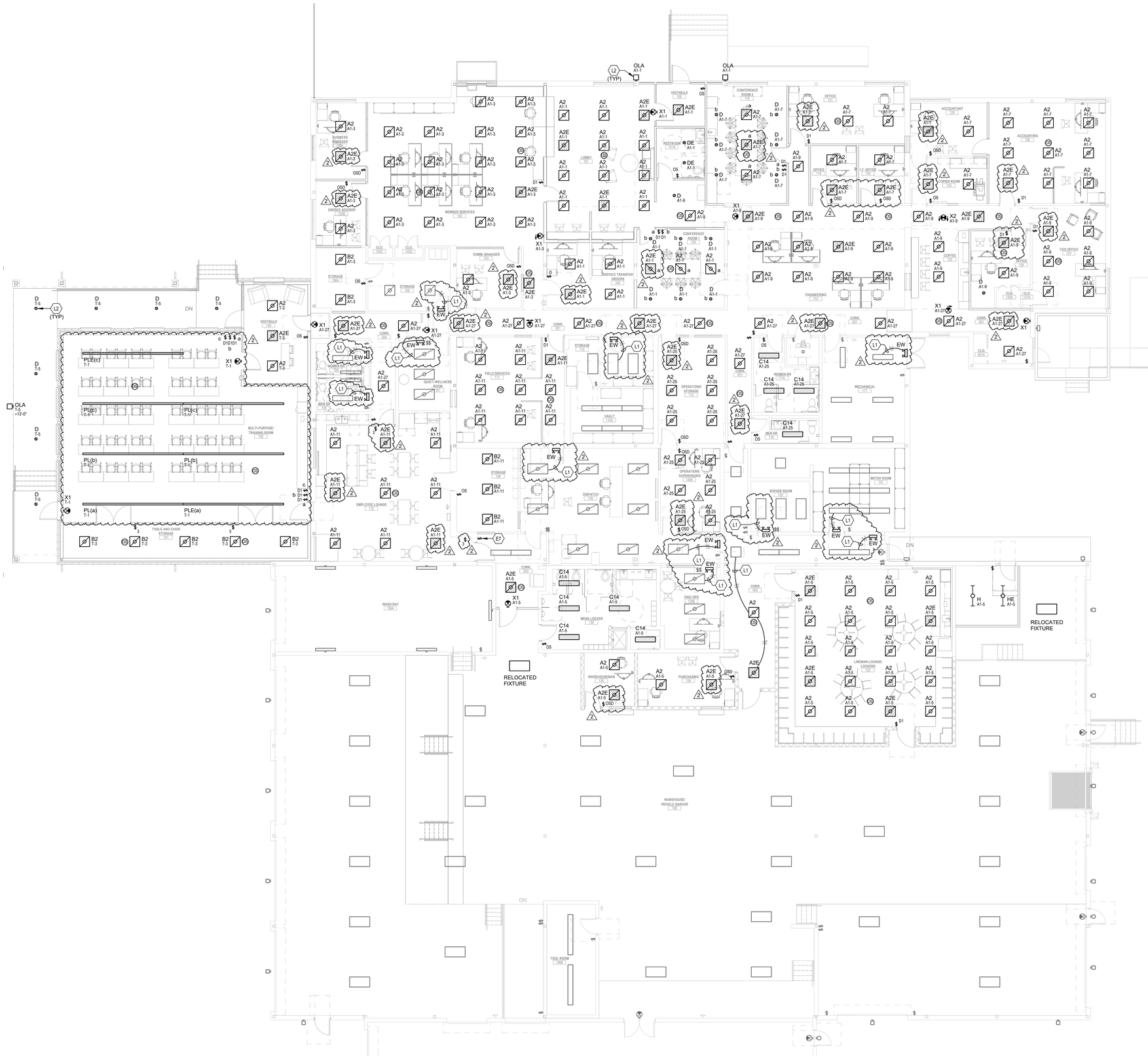
OWNER
HARRISON REMC

1165 OLD FOREST RD, CORYDON, IN 47112

SHEET TITLE
INTERIOR ELEVATIONS

DATE
April 24, 2025

SHEET NUMBER
I 303
24179.00



FIRST FLOOR LIGHTING PLAN

1/8" = 1'-0"

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

F. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.

G. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

H. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

I. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

KEYNOTES:

E7 EXISTING ELECTRICAL DEVICE REINSTALLED IN LOCATION INDICATED.

L1 ROUTE # OF #12 CONDUCTORS TO EXISTING LIGHTING CIRCUIT AS INDICATED. PROVIDE UNSWITCHED CONDUCTOR WHERE CONNECTING TO EXIT SIGN OR FIXTURE WITH BATTERY BACKUP.

L2 ROUTE NEW EXTERIOR LIGHT FIXTURES THROUGH EXISTING EXTERIOR LIGHTING CONTACTOR. EXPAND EXISTING EXTERIOR LIGHTING CONTACTOR AS REQUIRED.

HARRISON REMC - RENOVATION

BLDG 1

NOT IN SCOPE

KEY PLAN
SCALE: NO SCALE

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ROBERT A. HAAS REGISTERED NO. 10707744 STATE OF INDIANA PROFESSIONAL ENGINEER

BID DOCUMENTS	04/24/2025
ADDENDUM #1	05/07/2025

CMTA
A LEGENCE Company
10411 Meeting Street Louisville, KY 40059 | 502.326.3065 | cmta.com

PROJECT TITLE
Harrison REMC - Addition & Renovation

OWNER
Corydon, IN

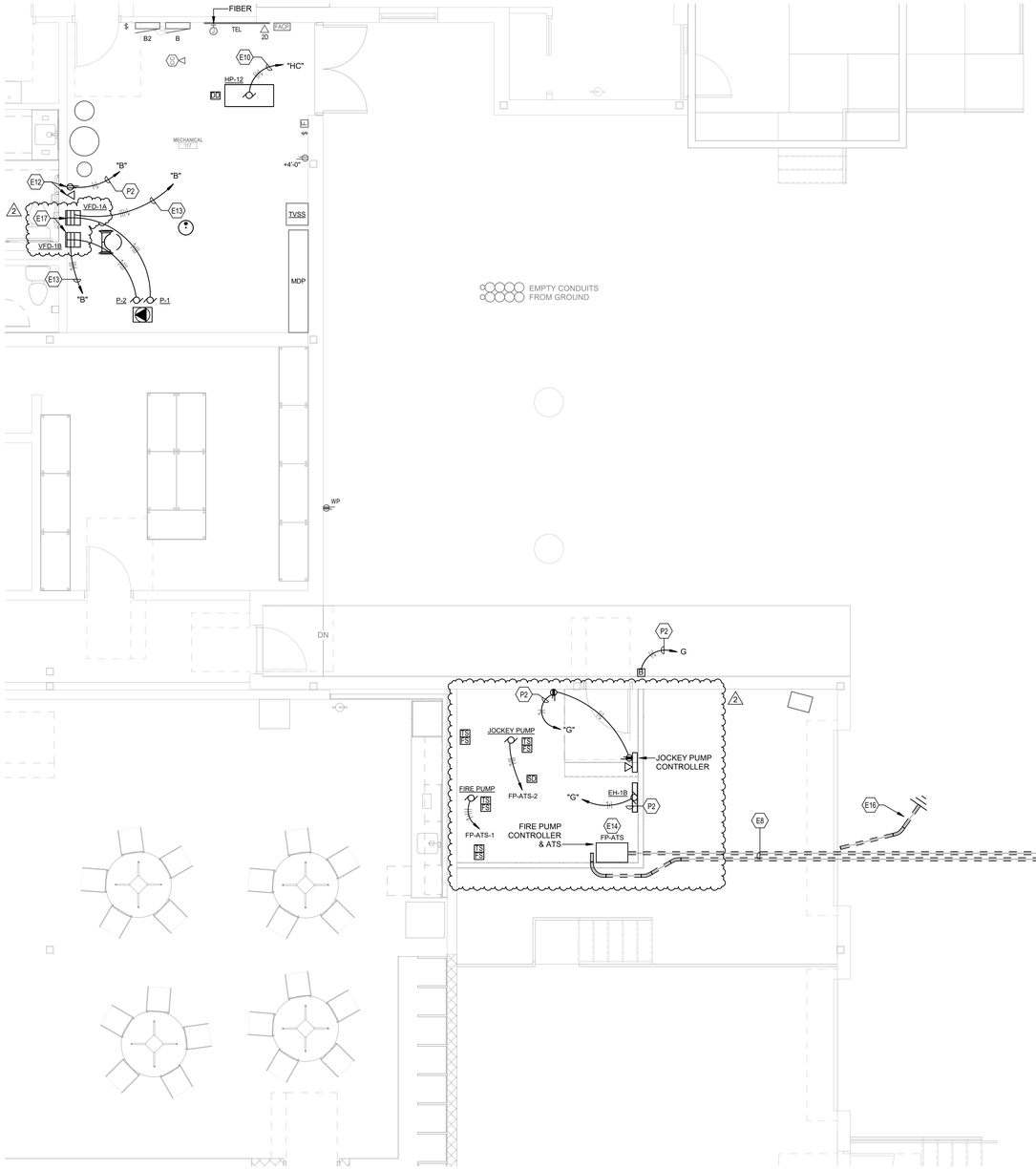
SHEET TITLE
FIRST FLOOR LIGHTING PLAN

DATE
April 24, 2025

SHEET NUMBER
E-300
24179.00

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 811 OR 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.



ENLARGED MECH ROOM, MECH YARD, & GENERATOR PAD

1/4" = 1'-0"

GENERAL NOTES (POWER/SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

E. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

F. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES (SITE):

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.

B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLAN(S), APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN - MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.

C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.

D. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.

E. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.

F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS, EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.

G. PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILTY STANDARDS SHALL TAKE PRECEDENCE.

H. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.

I. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A MINIMUM OF 6" ABOVE GRADE.

J. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS. PROVIDE PHOTOS UPON REQUEST.

K. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.

KEYNOTES:

E5 CONTRACTOR SHALL REMOVE AND RE-INSTALL PAD MOUNTED UTILITY TRANSFORMER AS REQUIRED FOR INSTALLATION OF FIRE PUMP SERVICE FEEDER. CONTRACTOR SHALL CUT AND PATCH CONCRETE PAD AS REQUIRED FOR NEW RACEWAYS. FIELD VERIFY EXACT REQUIREMENTS.

E8 PROVIDE UNDERGROUND FIRE PUMP SERVICE CONNECTIONS PER POWER RISER AND DUCT BANK DETAILS. FIELD VERIFY BEST ROUTE AND HAND DIG WHERE REQUIRED TO AVOID EXISTING UNDERGROUND UTILITIES. REFER TO POWER RISER AND FEEDER SCHEDULE FOR SIZING REQUIREMENTS. PROVIDE (4) 1" CONDUITS IN TRENCH FOR CONTROL CONNECTIONS TO GENERATOR CONTROLLER.

E10 ROUTE #12 CONDUCTORS AND A #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/2P BREAKER IN EXISTING PANEL INDICATED.

E12 PROVIDE 120V POWER CONNECTION AND DATA CONNECTION TO HVAC CONTROLS IN SPACE INDICATED. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.

E13 ROUTE #10 CONDUCTORS AND A #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 30A/3P BREAKER IN EXISTING PANEL INDICATED.

E14 FIRE PUMP CONTROLLER PROVIDED BY FIRE PROTECTION CONTRACTOR WITH INTEGRAL DISCONNECT SWITCHES AND AUTOMATIC TRANSFER SWITCH. REFER TO POWER RISER FOR ADDITIONAL INFORMATION. COORDINATE ENTIRE ROOM LAYOUT AND REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR PRIOR TO INSTALLATION.

E15 EXISTING SERVICE RATED PAD MOUNTED AUTOMATIC TRANSFER SWITCH TO REMAIN.

E16 PROVIDE SERVICE GROUNDING ELECTRODE FOR NORMAL POWER FIRE PUMP SERVICE ENTRANCE. REFER TO SERVICE GROUND DETAILS AND POWER RISER FOR FURTHER REQUIREMENTS. FIELD VERIFY EXACT INSTALLATION LOCATION.

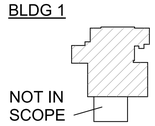
2 E17 VARIABLE FREQUENCY DRIVE (VFD) TO BE PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. CONTRACTOR SHALL ENSURE 3'-0" CLEARANCE IN FRONT OF VFD WITH 30" WIDE CLEAR WALKING PATH TO EQUIPMENT. LINE SIDE AND LOAD SIDE CONDUCTORS SHALL BE IN SEPARATE CONDUITS.

P2 ROUTE # OF #12 CONDUCTORS AND A #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/1P BREAKER IN EXISTING PANEL INDICATED.

P7 PROVIDE CT CABLING RACEWAY FOR NEW FIRE PUMP SERVICE ENTRANCE TO EXISTING METER BASE. COORDIANTE EXACT REQUIREMENTS WITH UTILITY COMPANY/OWNER PRIOR TO ROUGH-IN.

HARRISON REMC - RENOVATION

BLDG 1



KEY PLAN

SCALE: NO SCALE

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ROBERT A. HAAS REGISTERED NO. 10707744 STATE OF INDIANA PROFESSIONAL ENGINEER

BID DOCUMENTS	04/24/2025
ADDENDUM #1	05/07/2025

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10411 Meeting Street Louisville, KY 40059 | 502.326.3065 | cmta.com

PROJECT TITLE
Harrison REMC - Addition & Renovation

OWNER
Corydon, IN

SHEET TITLE
ENLARGED ELECTRICAL PLANS

DATE
April 24, 2025

SHEET NUMBER
E-500
24179.00