

ADDENDUM TWO

West Campus Maintenance Building Addition - 2026
2101 E. Coliseum Blvd
Fort Wayne, IN 46805

MARTINRILEY architects/engineers
221 West Baker Street
Fort Wayne, Indiana 46802
260-422-7994

Commission No.: F25111

Addendum Date: 9 April 2026

Conditions: The following clarifications, amendments, additions, deletions, revisions and modifications are a part of the contract documents and change the original documents only in the manner and to the extent stated.

Copies of the Addendum shall be bound with all contract sets of drawings and specifications.

CLARIFICATIONS:

- The 13'-1" ± labeled as "eave height" is actually the knee of the column and beam structure. The eave height has been labeled on the drawings. Refer to revisions.
- **Ceco Building Systems and Varco Pruden** are allowable building system substitutions for Nucor. **Bidders using these manufacturers certify that the product meets or exceeds** building requirements in the specifications and can match/meet or exceed the existing building in color, finish, profiles, and quality.
- **All drawings have been stamped** by respective architects and engineers. All sheets have been reissued due to this. Stamps are **not clouded** as revisions.

Contractor Question #1

Does the owner happen to have the original Nucor drawings for the existing building? Any specifications on the existing siding or structural load calculations would be greatly appreciated?

Refer to added specification section.

Contractor Question #2

What are the deflection/sidesway requirements?

Specification section 13 3419, Metal Building Systems, clearly list l/180 for roof and wall members; this would include drift.

Contractor Question #3

The existing building columns are at floor level with standard Nucor bolt patterns. Can the addition building columns be at floor level with standard Nucor bolt patterns?

1) The bottom of base plate may be founded at floor level (reference elevation 100'-0" = top of pedestal) overall height must match architectural requirements and elevations. Originally, 1 1/2" grout pads were specified to allow for proper leveling. If grout pads are omitted, tops of pedestals must be level.

2) As stated on sheet S001, Structural Steel Notes, note #20, "METAL BUILDING SYSTEM MANUFACTURER MUST DESIGN BASE PLATES FOR FRAMES AND COLUMNS BASED ON THE ANCHOR BOLT SIZES AND SPACING IN BOTH ORTHOGONAL DIRECTIONS PROVIDED IN THESE DRAWINGS.".

Contractor Question #4

Spec section: 31 2323-1 - GeoFoam. Do you have a location on drawings where you would want this?

No geofoam for this project. Item 1.04 C. should be omitted in its entirety.

Contractor Question #5

The print shows 2- new 3 way switches on addition. Are they wanting the new lights to be connected to the old lights and 3 way for both sides?

Per note 1 on E101, extend the existing circuit. Clarification added to drawing.

Contractor Question #6

Do bollards need to be 8'? typical height is 7' because the poles come to the fab shop at 21'. Price is going to triple for 8' poles. Reference S402 detail 10.

Bollards revised to 7' height. Refer to updated drawing.

Contractor Question #7

The demolition plan shows that we are to remove only the north 20' of existing fence. The east and south sides remain in place. The site layout plan is calling for all new fence. Are we to remove all of the existing fence and replace with new or leave the east and south sides of existing fence and just add on the new fence along the new addition?

Refer to revised drawings. The east and south sides of the existing fence are to remain. New portions are at the north and northeast sections.

Contractor Question #8

The site layout plan does not show any gates being installed. Should there be some gates to allow access into this area? If so where and what size of gates would be required?

Existing north gate to be salvaged and reinstalled. Refer to revised drawing. Stretches of new fencing still required at each side of gate as needed. Field verify sizes.

Contractor Question #9

On sheet C800 detail 1 there is a note at the top that points to the top rail and says 1 5/8" o.d. top and bottom rail. The existing fence has bottom tension wire and not bottom rail. Should we install bottom tension wire to match the existing or install bottom rail?

Install bottom tension wire to match existing. See revised drawing.

Contractor Question #10

Are there any soil boring available for this project?

Yes, refer to attached geotechnical report.

Contractor Question #11

Typical Stone Road Section 2/C-800 does not specify what type of recycled base is to be use. Is the intent to use 24" of #53 rcycled base and 3" of #53 limestone surface? If not, please clarify what should be used for this section

This detail has been revised to read: 6-8" of top #73 stone over 4-8" base of #2 stone.

Contractor Question #12

What type of subgrade separation fabric is to be used for Typical Stone Road Section 2 / C-800?

This detail has been revised to remove the subgrade separation fabric.

Contractor Question #13

Is #53 limestone acceptable for the granular base in the slab on grade?

Yes, #53 must be used under the slab per specs.

CHANGES TO THE DRAWINGS:

- **REMOVE AND REPLACE** all sheets in the set. Changes on these sheets include:
 - **MODIFY** all references to "eave height" on to read as 115'-1"± rather than 113'1" ±
 - **REMOVE** "SOUTH WALL" from room finish schedule
 - **REVISE** foundation details on wall sections for clarity on A401 and S402
 - **CLARIFICATION** on A101 Room Schedule
 - **REVISE** C800 per the answered questions above
 - **REVISE** work description notes to clarify gate and fencing on C101 and C200
 - **REVISE** note 1 on E101
 - **ADD** stamps to all drawings

CHANGES TO THE SPECIFICATIONS:

- **ADD** Section 00 3100 *Available Project Information* to the project manual. Existing pre-engineered metal building drawings from previous project are included in this section. These are for reference only.
- **MODIFY** the certification page to include signatures and registration numbers.
- **MODIFY** Section 31 2323 to omit Item 1.04 C. in its entirety.

ATTACHMENTS:

F25111 - C.20.10211 W Campus Maintenance Building Addition - 2026 - Combined Drawing Set
2026-04-09.pdf

Section 31 2323.pdf

Certification Sheet.pdf

00 3100-RIB-Available Project Information-04-01-2026.pdf

Geotech Report - PFW Maintenance Building Addition - Fort Wayne, IN.pdf

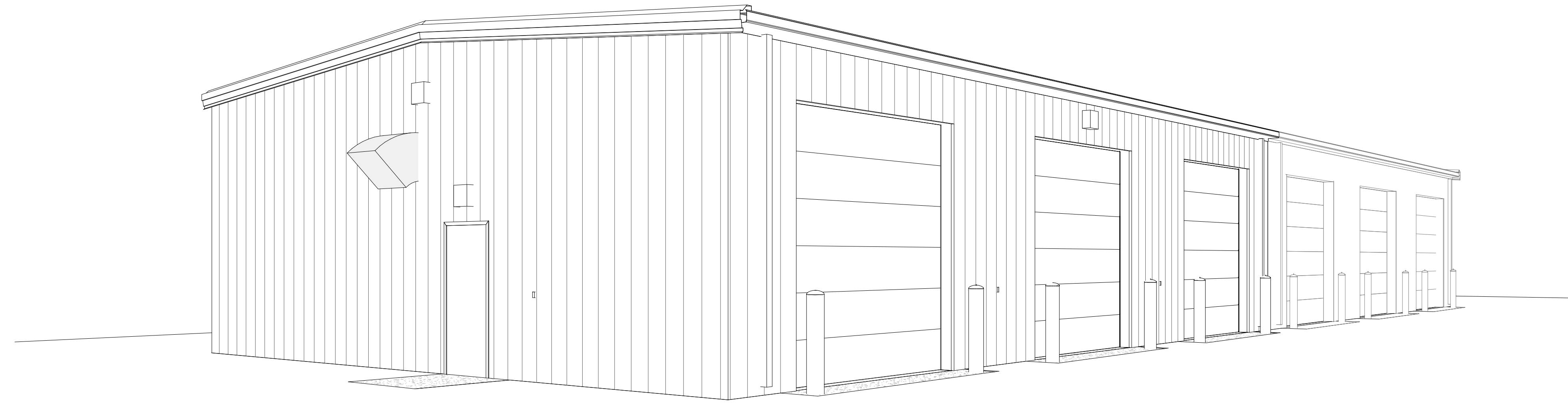
END OF ADDENDUM NUMBER TWO

W:\2025 Projects\F25111 PFW W Main Add\Project Management\05-Bidding

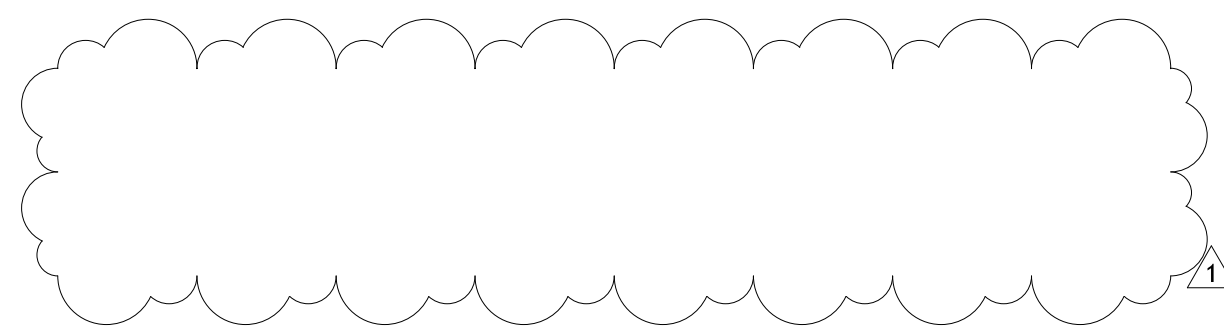
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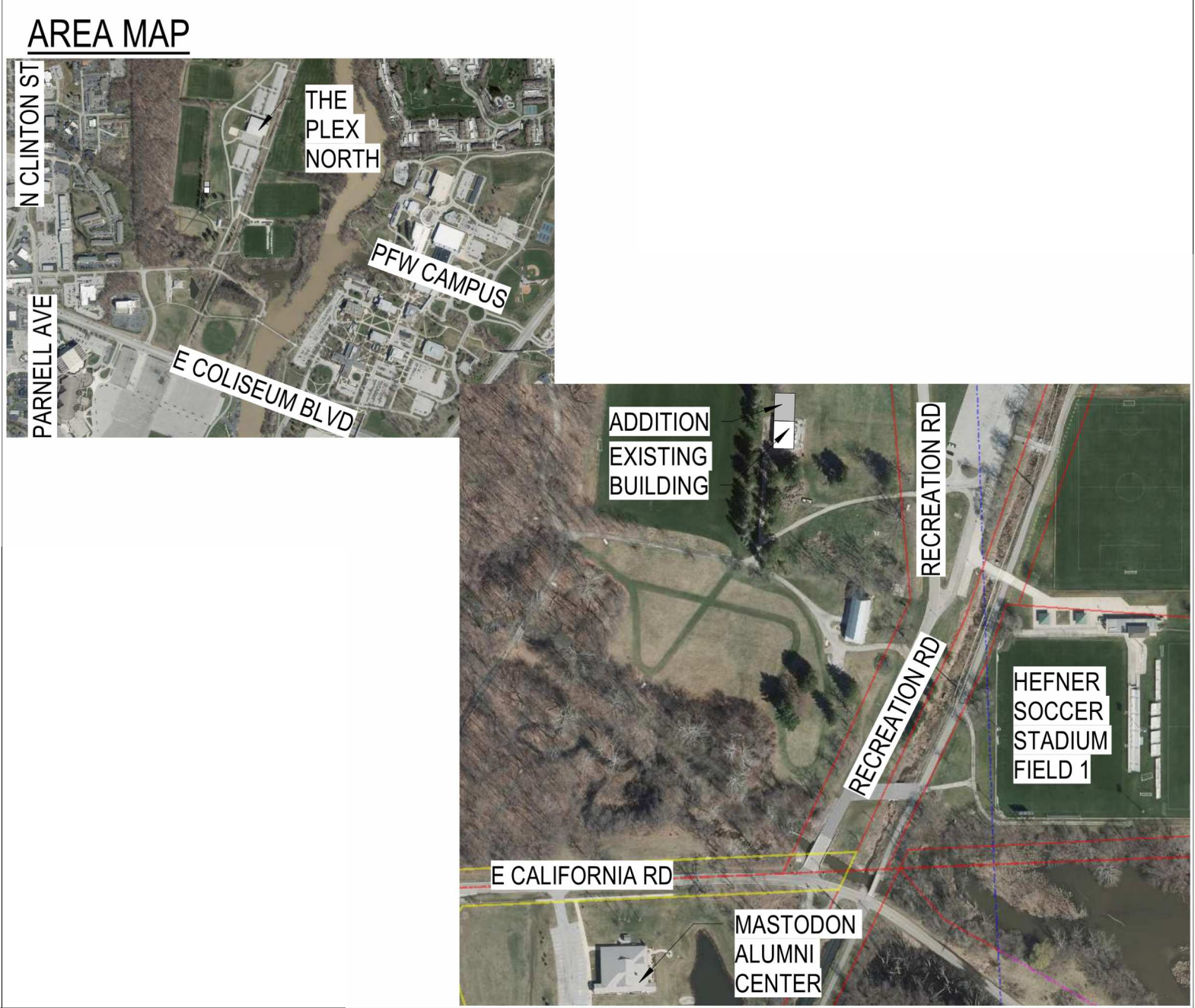
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REVISION	DATE
1 Addendum 2	2026-04-09

SYMBOLS KEY

EARTHWORK	EARTH UNDISTURBED FILL	WOOD	LUMBER	NORTH ARROW	ENLARGED PLAN DETAIL
EARTH COMPACTED FILL	EARTH GRANULAR FILL	FINISH WOOD	WOOD BLOCKING	ELEVATION TARGET EL = 8'-0" A.F.F.	COLUMN CENTERLINE
SAND		PLYWOOD		BUILDING SECTION	WALL SECTION
CONCRETE	CONCRETE	GLASS	GLASS	DETAIL SECTION	ROOM NAME
MASONRY	CONCRETE MASONRY UNIT	INSULATION	BATT LOOSE INSULATION	L0001 ASBESTOS BUILDING MATERIAL TEST LOCATION	L0001 NON-ASBESTOS BUILDING MATERIAL TEST LOCATION
BRICK		RIGID INSULATION		WORK DESCRIPTION NOTE	DETAIL DESCRIPTION NOTES
METALS	STEEL			DEMO WORK DESCRIPTION NOTE	WINDOW OR ROOF AREA
	ALUMINUM				



INDEX OF DRAWINGS

T101	TITLE SHEET
C100	EXISTING SITE PLAN
C101	DEMOLITION PLAN
C200	SITE LAYOUT PLAN
C300	GRADING PLAN
C800	SITE DETAILS
C900	EROSION CONTROL PLAN
C901	EROSION CONTROL DETAILS
D101	DEMOLITION PLAN
S001	STRUCTURAL SPECIFICATIONS
S101	FOUNDATION PLANS
S401	FOUNDATION DETAILS
S402	FOUNDATION DETAILS
A101	FLOOR PLAN
A201	BUILDING ELEVATIONS
A401	BUILDING SECTIONS
R101	ROOF PLAN
M101	MECHANICAL PLAN - ALTERNATE
E101	ELECTRICAL PLAN

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	2026-03-13	BID SET



Demolition Plan
1" = 10'

General Demolition Notes

1. **LITTERING STREETS-** THE CONTRACTOR SHALL REMOVE ANY DEMOLITION DEBRIS OR MUD FROM ANY STREET, ALLEY, RIGHT OF WAY RESULTING FROM THE EXECUTION OF THE DEMOLITION WORK. LITTERING OF THE SITE SHALL NOT BE PERMITTED. ALL WASTE MATERIALS SHALL BE PROMPTLY REMOVED FROM THE SITE.
2. **STREET CLOSURES-** IF IT SHOULD BECOME NECESSARY TO CLOSE ANY TRAFFIC OR PARKING LANES, CONTRACTOR SHALL BE RESPONSIBLE TO ACQUIRE NECESSARY PERMITS AND PLACE ADEQUATE BARRICADES AND WARNING SIGNS AS REQUIRED BY THE CITY OF FORT WAYNE and/or ALLEN COUNTY. STREET OR LANE CLOSURES SHALL BE COORDINATED WITH THE APPROPRIATE JURISDICTIONAL AUTHORITY.
3. **GENERAL PROTECTION- WHERE APPLICABLE**
 - A. **SIDEWALKS-** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PUBLIC SIDEWALKS, IF SCHEDULED TO REMAIN, ABUTTING OR ADJACENT TO THE PROJECT SITE. REPAIR OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO THE WORK (REPLACEMENT PER THE CITY OF FORT WAYNE and/or ALLEN COUNTY STANDARDS).
 - B. **PEDESTRIAN ACCESS/ VEHICULAR TRAFFIC-** IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND CONSTRUCT NECESSARY WARNING SIGNS, BARRICADES FENCING OR TEMPORARY ACCESS AS DIRECTED BY OWNER OR LOCAL AUTHORITY.
 - C. **DEMOLITION HOURS-** CONTRACTOR SHALL COMPLY WITH ANY RESTRICTIONS TO WORKING HOURS AS DIRECTED BY LOCAL AUTHORITY.
 - D. **NOISE POLLUTION-** ALL CONSTRUCTION EQUIPMENT SHALL BE IN GOOD REPAIR AND ADEQUATELY MUFFLED, OR AS DIRECTED BY LOCAL AUTHORITY.
 - E. **DUST CONTROL-** THE CONTRACTOR SHALL TAKE APPROPRIATE ACTIONS TO MINIMIZE ATMOSPHERIC POLLUTION. SUCH PRECAUTIONS SHALL INCLUDE, BUT NOT LIMITED TO, USE OF WATER OR CHEMICALS FOR DUST CONTROL IN THE DEMOLITION OF BUILDING STRUCTURES, PAVING OR CLEARING OF LAND AND AS REQUIRED BY LOCAL AUTHORITY. OPEN-BODY TRUCKS LIKELY OF CREATING AIRBORNE DUSTS SHALL BE COVERED.
4. **REQUIREMENTS FOR THE REDUCTIONS OF FIRE HAZARDS-** THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AND MAINTAINING THE CORRECT TYPE AND CLASS OF FIRE EXTINGUISHER ON SITE. NO MATERIAL OBSTRUCTIONS OR DEBRIS SHALL BE PLACED OR ALLOWED TO ACCUMULATE WITHIN 15 FEET OF ANY FIRE HYDRANT.
5. **PROTECTION OF PUBLIC UTILITIES-** THE CONTRACTOR SHALL NOT DAMAGE EXISTING FIRE HYDRANTS, TRAFFIC SIGNALS, POWER POLES, TELEPHONE POLES, FIRE ALARM BOXES, WIRE CABLES AND/ OR UNDERGROUND UTILITIES TO REMAIN OR OTHER APPURTENANCES IN THE VICINITY OF THE SITE.
6. **PROTECTION OF ADJACENT PROPERTIES-** THE CONTRACTOR SHALL NOT DAMAGE OR CAUSE TO BE DAMAGED ANY PUBLIC RIGHT-OF-WAY, STRUCTURES, PARKING LOTS, DRIVES, STREETS, SIDEWALKS, UTILITIES, LAWNS OR ANY OTHER PROPERTY ADJACENT TO THE PROJECT SITE.
7. **GENERAL DEMOLITION NOTE-** THE CONTRACTOR SHALL ACCEPT THE SITE IN ITS PRESENT CONDITION AND SHALL INSPECT THE SITE FOR ITS CHARACTER AND THE TYPE OF IMPROVEMENTS TO BE DEMOLISHED. THE DEMOLITION LIMITS SHALL BE RELEASED TO THE CONTRACTOR UPON AWARD OF CONTRACT AND NOTICE TO PROCEED. THE CONTRACTOR SHALL HAVE FULL CONTROL OF DEMOLITION PROGRESS AND CLEARANCE OF THE SITE, SUBJECT TO THE PROJECT MANUAL AND SPECIFICATIONS.

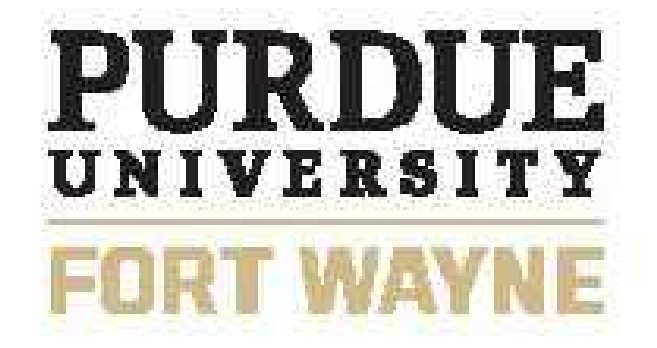
Typical Site Demolition Notes

1. REMOVE PORTION OF CHAIN LINK FENCE IN ITS ENTIRETY. REMOVE AND PROTECT EXISTING FENCE GATE FOR REUSE.
2. CLEARING AND GRUBBING, TOPSOIL REMOVAL.

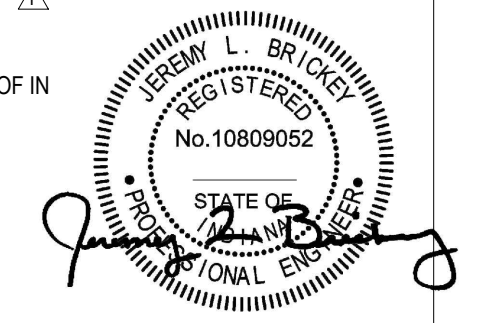
Note: ALL DEMOLISHED MATERIAL FROM CONSTRUCTION ACTIVITIES SHALL BE REMOVED OFF-SITE AND DISPOSED OF IN A LEGAL MANNER.

- Legend**
- (D1) - - - - - EXISTING FENCING/ GATES TO BE REMOVED
 - [Hatched Box] - TOP SOIL REMOVAL
 - - - - - CONSTRUCTION LIMITS

New Construction and Renovation Work For:
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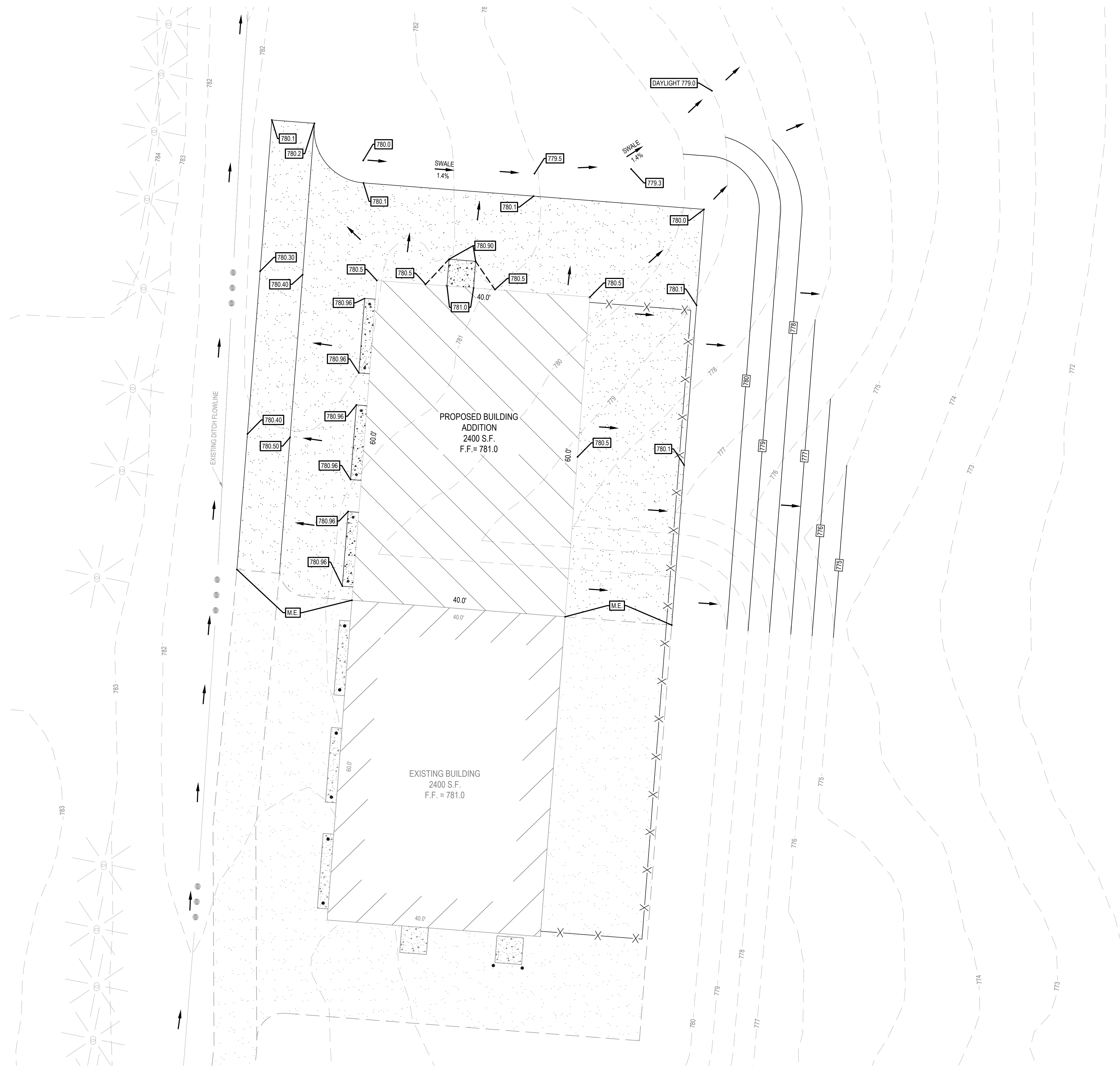
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REVISION	DATE
1. Addendum 2	2026-04-09

DRAWN BY:	REVIEWED BY:
DRT	JLB
COMMISSION NUMBER:	DATE:
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C101

DEMOLITION PLAN



General Grading and Drainage Notes

1. SLOPE FOR BANK SLOPES AND OF SWALES ARE NOT TO EXCEED 4:1 UNLESS OTHERWISE NOTED.
2. ALL GRADE SWALES ARE TO HAVE A 2 FOOT WIDE FLAT BOTTOM SECTION.
3. ALL GRADING AND/OR EARTH MOVING WORK DONE ON SITE, SHALL BE DONE IN COMPLIANCE WITH ALL STATE AND LOCAL CODES AND REQUIREMENTS.
4. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT EACH POINT OF ENTRY TO OR EXIT FROM THE WORK SITE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY ON THE PROPOSED WORK SITE.
5. ALL LAND ALTERATION WHICH STRIPS THE LAND OF EXISTING VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY WHICH WILL MINIMIZE SOIL EROSION.
6. TOPSOIL SHALL BE REMOVED FROM ALL AREAS WHERE PERMANENT STRUCTURES ARE TO BE CONSTRUCTED AND SHALL BE STOCKPILED FOR FUTURE USE. TOPSOIL SHALL NOT BE USED FOR FILL UNDER ANY CONSTRUCTION AREA.
7. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES UNLESS OTHERWISE NOTED.

Legend:

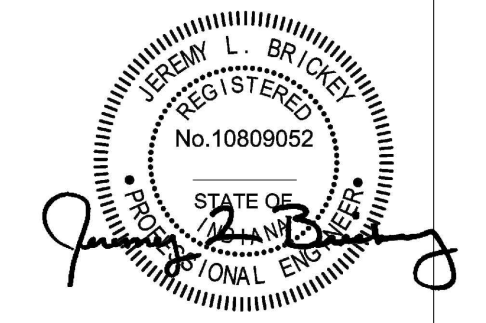
- EXISTING STONE PAVEMENT SECTION
- PROPOSED GRAVEL PAVEMENT SECTION
- EXISTING CONCRETE SURFACE
- PROPOSED CONCRETE PAVEMENT SECTION
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SPOT ELEVATION
- MATCH EXISTING ELEVATION
- DRAINAGE FLOW DIRECTION ARROW

Grading Plan
1" = 10'

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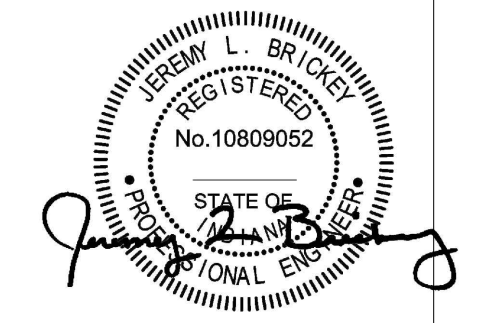
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GRADING PLAN



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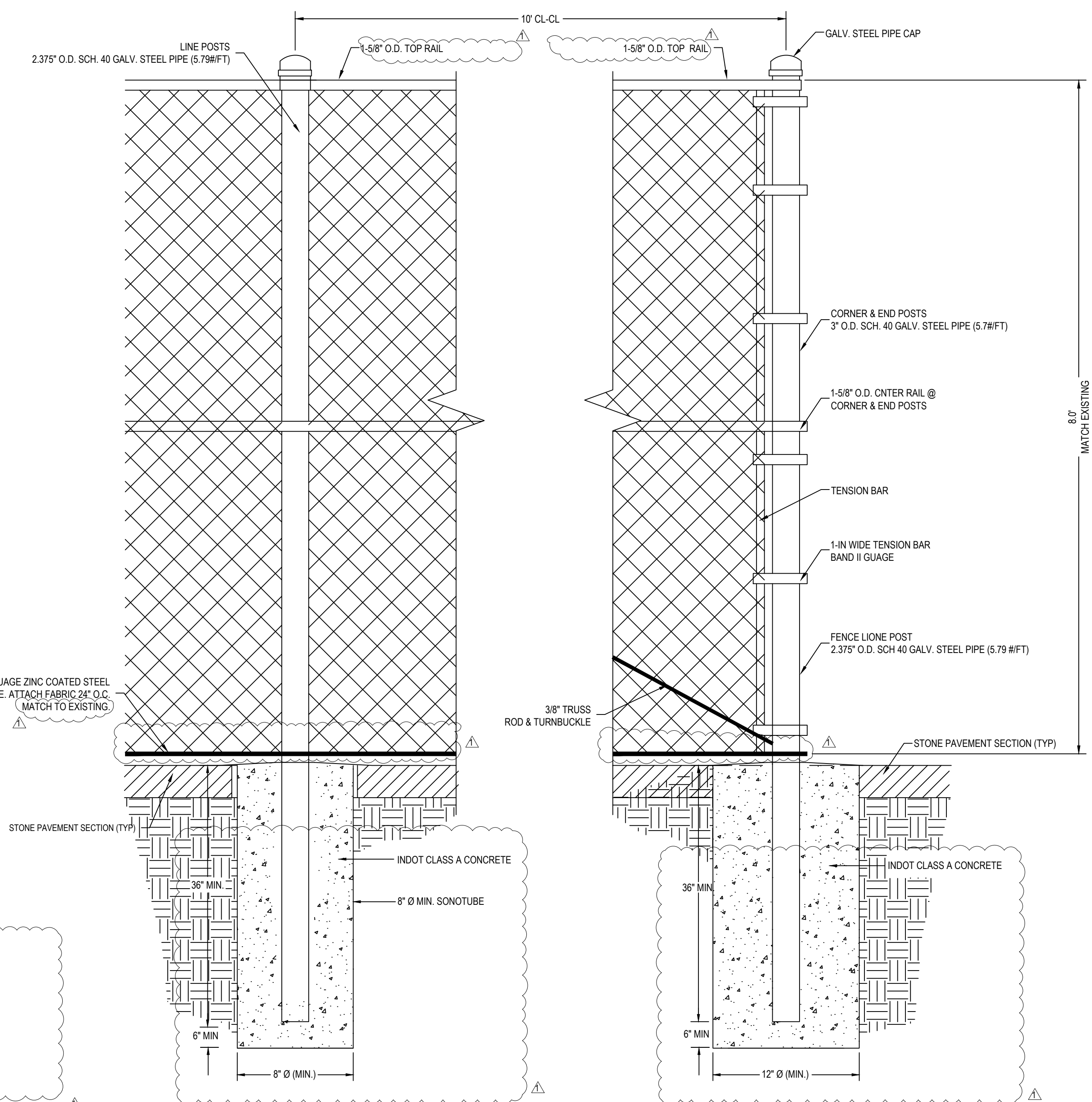
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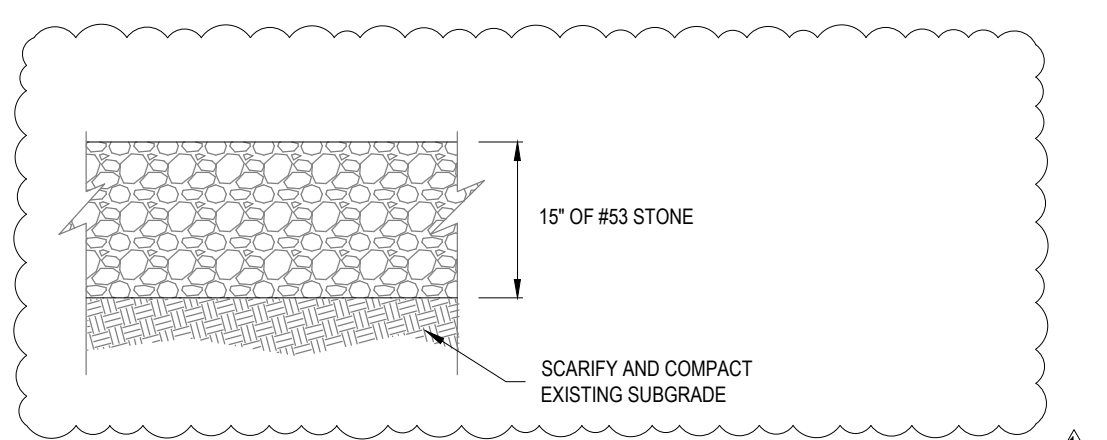
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SITE DETAILS

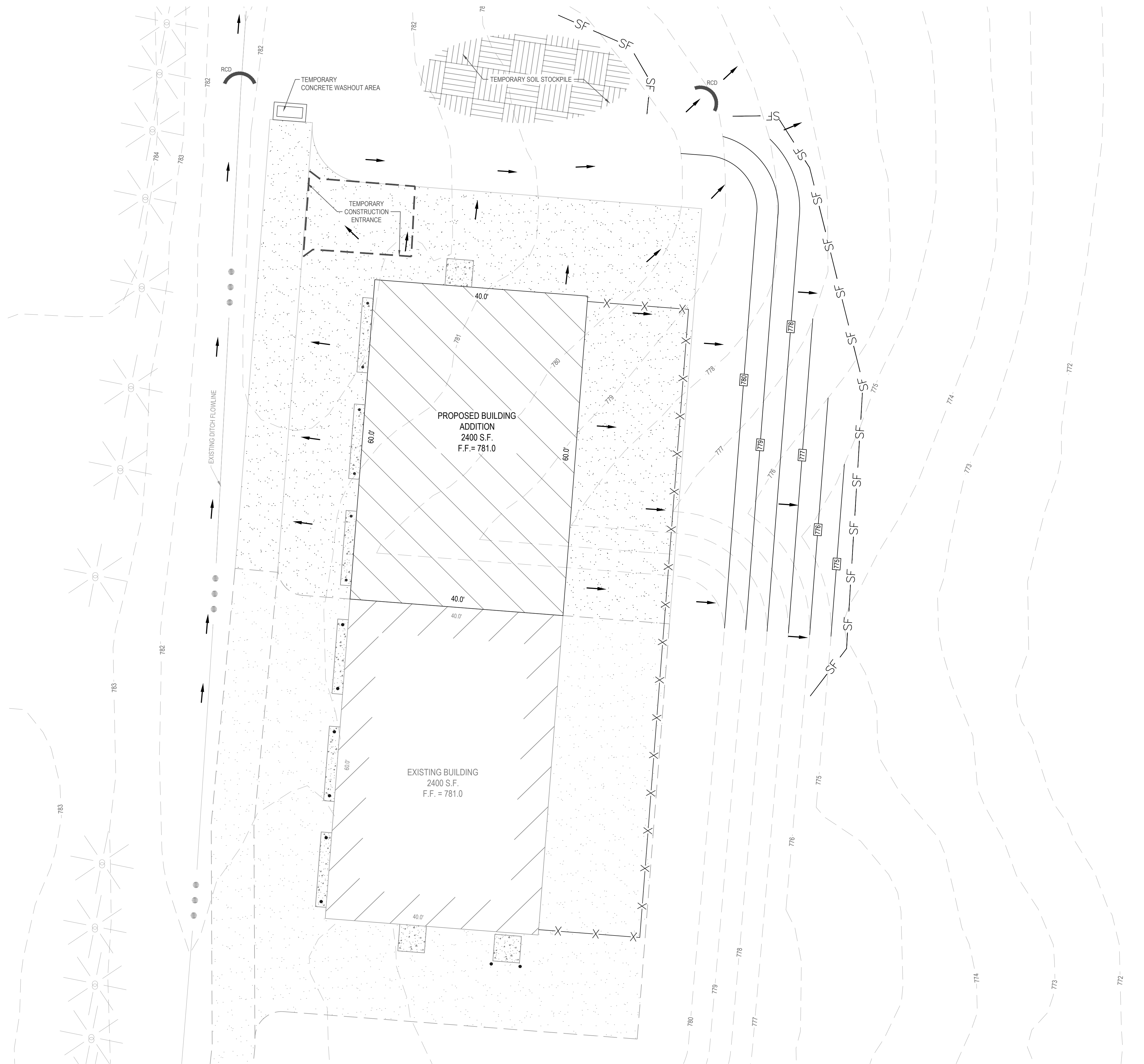


1 Chain Link Fence Detail
 NTS



2 Typical Stone Parking Section
 NTS





Erosion Control Plan
1" = 10'

General Erosion Control Notes

1. THE ROADWAYS AND TEMPORARY CONSTRUCTION ENTRANCE SHALL BE KEPT CLEAN OF SEDIMENT AND OTHER DEBRIS. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING SAID POLLUTANTS FROM ROADWAYS AS NECESSARY. THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIALS IN THE STREET.
2. ALL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS SOON AS APPLICABLE. CONTROL MEASURES SHALL MEET OR EXCEED THOSE SHOWN IN "THE INDIANA STORMWATER QUALITY MANUAL - NOTE ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.
3. THE CONTRACTOR SHALL MAINTAIN AND INSPECT ALL EROSION CONTROL MEASURES UNTIL THE PROJECT IS TURNED OVER TO THE OWNER. THE CONTRACTOR SHALL REVIEW THE EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND WITHIN 1 BUSINESS DAY FOLLOWING EACH STORM EVENT OF 1/2" OR MORE. CORRECTIVE MEASURES ARE TO BE TAKEN IF ANY MEASURE IS IN NEED OF REPAIR OR FAILING TO ACHIEVE THE DESIRED EFFECT. THE CONTRACTOR SHALL KEEP A LOG OF ALL INSPECTIONS AND MAINTENANCE ACTIVITIES PERFORMED. THE LOG SHALL BE AVAILABLE FOR REVIEW BY A REPRESENTATIVE OF THE CITY OF FORT WAYNE, ALLEN COUNTY AND ANY OTHER AGENCY HAVING JURISDICTION. THE OWNER WILL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF THE PERMANENT MEASURES ONLY AFTER ALL CONSTRUCTION IS COMPLETE.
4. NO SEDIMENT SHALL BE ALLOWED TO LEAVE THE SITE. ANY ADDITIONAL MEASURES REQUIRED TO ACCOMPLISH THIS TASK SHALL BE IMPLEMENTED IMMEDIATELY. THE CONTRACTOR SHALL RECTIFY ANY DAMAGES DO TO SEDIMENTS OR EROSION TO ADJACENT PROPERTIES.
5. THE CONTRACTOR SHALL USE WATER TRUCKS AND OTHER REASONABLE METHODS TO REDUCE AIRBORNE AND WIND EROSION.
6. CONTRACTOR SHALL ENSURE WASTES OR UNUSED CONSTRUCTION MATERIALS, GARBAGE, DEBRIS, CLEANING WASTES OR WASTE WATER, ARE NOT CARRIED OFF BY RUNOFF FROM SITE BUT DISPOSED OF IN A PROPER MANNER. TRASH AND DEBRIS LEFT FROM THE CONSTRUCTION ACTIVITY SHALL BE PICKED UP AT THE END OF EACH WORK DAY.
7. CONTRACTOR SHALL INSTALL, IDENTIFY BY SIGN AND MAINTAIN CONCRETE WASHOUT AREA(S).

EC Sequencing and Staging Notes

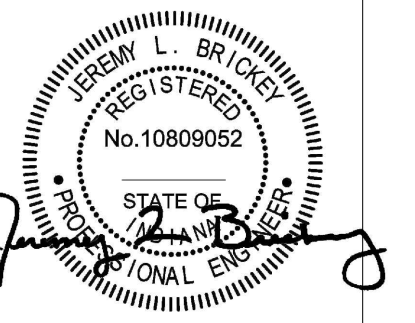
1. A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER SILT FENCE AND ROCK CHECK DAMS FOR EXISTING DRAINAGE OUTLET (WHERE APPLICABLE) SHALL BE INSTALLED PRIOR TO BEGINNING OTHER EARTH DISTURBING ACTIVITIES.
2. WHENEVER POSSIBLE, EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO PERFORMING OTHER EARTH DISTURBING ACTIVITIES.
3. MINIMIZE EROSION FROM EXPOSED AREAS BY PROVIDING AND MAINTAINING TEMPORARY OR PERMANENT STABILIZATION MEASURES. EROSION CONTROL MEASURES TO PROTECT EXPOSED AREAS SHALL BE INSTALLED AT THE END OF EACH WORK DAY.
4. AREAS TO BE PAVED SHALL BE STABILIZED WITH STONE COVER. THE TEMPORARY STONE COVER SHALL BE EQUIVALENT TO THE PROPOSED STONE BASE MATERIAL.
5. ALL AREAS TO REMAIN UNWORKED FOR MORE THAN 7 DAYS SHALL BE STABILIZED BY COVERING OR BY EQUIVALENT EROSION CONTROL MEASURES.
6. FOR AREAS TO BE PERMANENTLY SEEDING, COMPLETE SEEDING WITHIN 24 HOURS OF REACHING FINAL GRADE. SEE EROSION CONTROL SPECIFICATIONS FOR TEMPORARY SEEDING

Legend:

- EXISTING STONE PAVEMENT SECTION
- PROPOSED GRAVEL PAVEMENT SECTION
- EXISTING CONCRETE SURFACE
- PROPOSED CONCRETE PAVEMENT SECTION
- ROCK CHECK DAM PROTECTION
- CONCRETE WASHOUT
- TEMPORARY CONSTRUCTION ENTRANCE
- PERIMETER SEDIMENT CONTROL SILT FENCE, FILTER SOCK OR APPROVED EQUAL
- TEMPORARY SOIL STOCKPILE
- DRAINAGE FLOW DIRECTION ARROW



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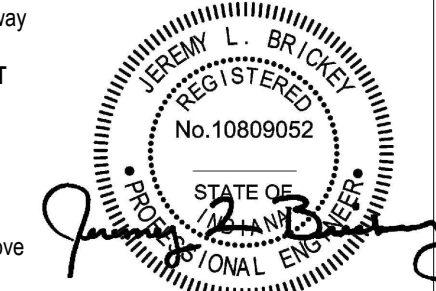
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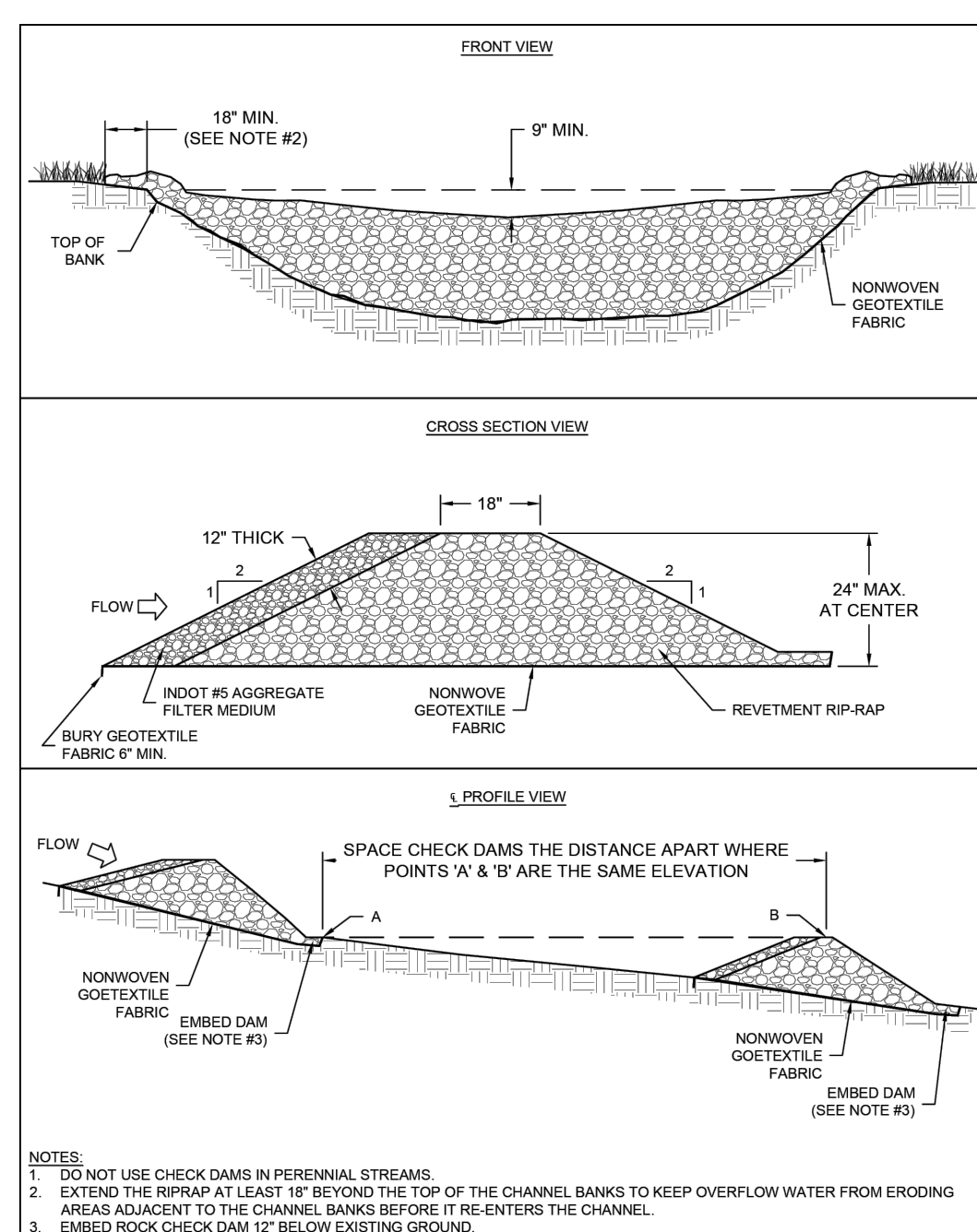
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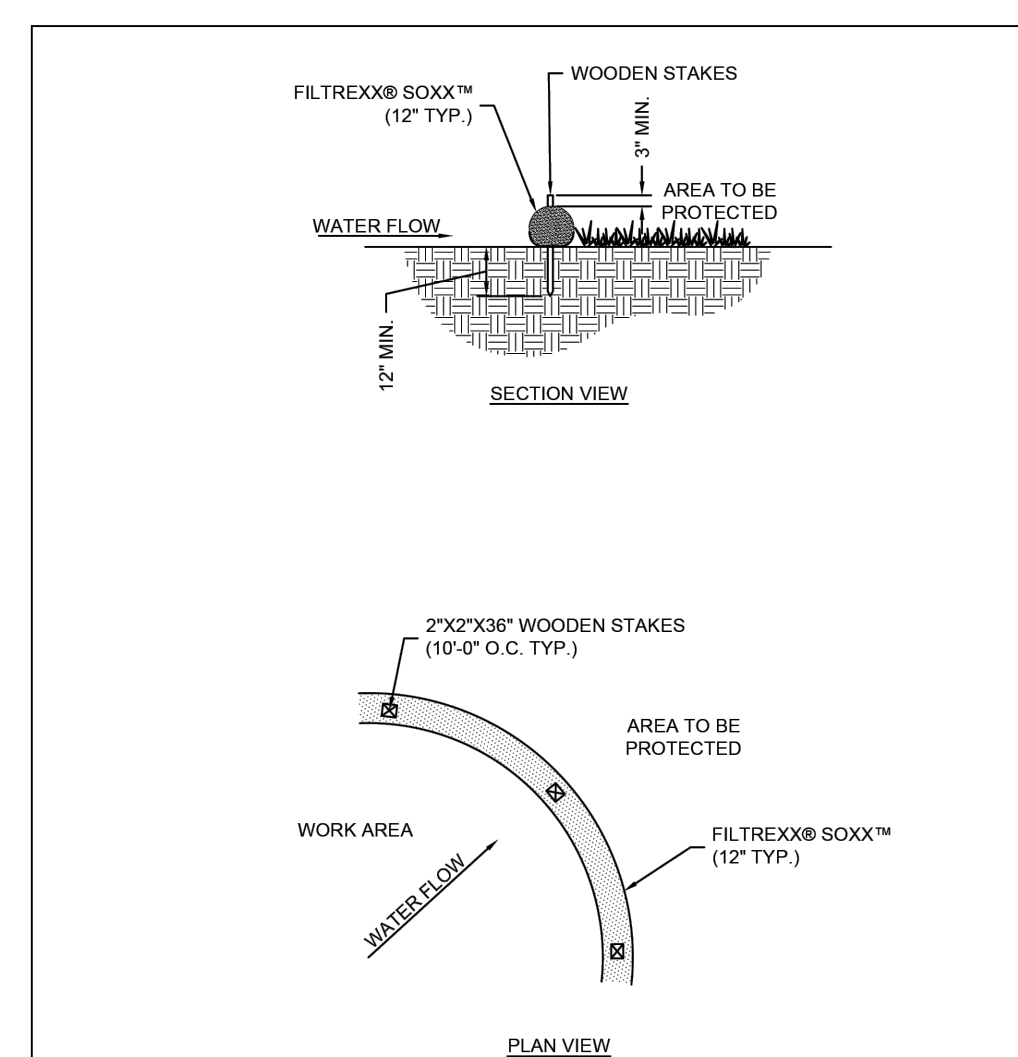
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 fax 260.426.2067



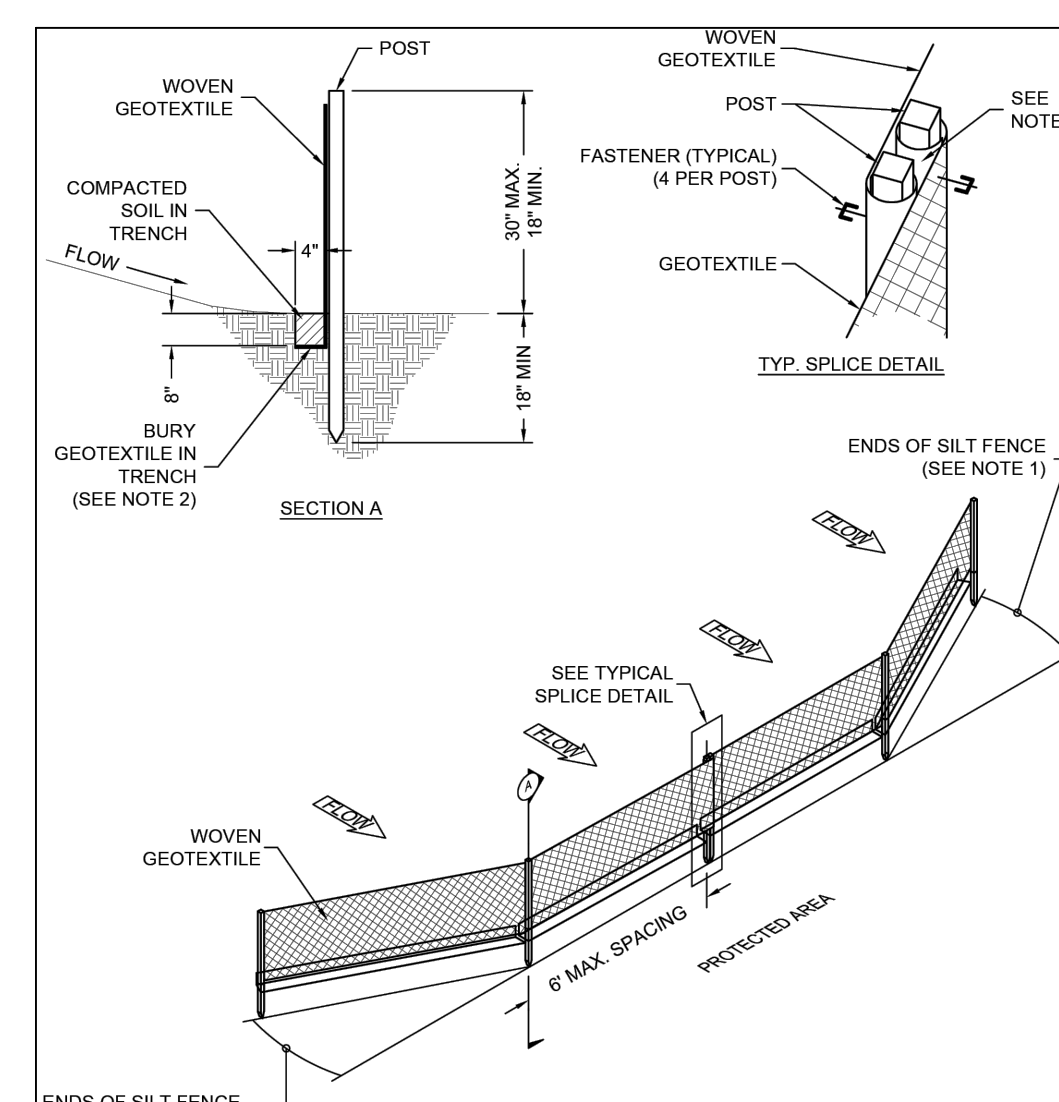
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Temporary Rock Check Dam



Perimeter Protection - Temporary Silt Fence



Perimeter Protection - Temporary Silt Fence

SILT FENCE

SPECIFICATIONS

Note: Silt fence is not recommended for use as a diversion or stream, channel, ditch, swale, or anywhere that concentrated flow is anticipated.

Drainage Area

- Limited to one-quarter acre per 100 linear feet of fence.
- Further restricted by slope steepness (see Table 1).

Effective Life

- Six months (maximum).

Location

- Installed parallel to the slope contour.
- Minimum of 10 feet beyond the toe of the slope to provide a broad, shallow sediment pool.
- Accessible for maintenance (removal of sediment and silt fence repair).

Spacing

Table 1- Slope Steepness Restrictions

- Depth: eight inches minimum.
- Width: four inches minimum.
- After installing fence, backfill with soil material and compact (to bury and anchor the lower portion of the fence fabric).

Trench

- Fabric - woven or non-woven geotextile fabric meeting specified minimums outlined in Table 2.

Table 2- Geotextile Fabric Specifications for Silt Fence (minimum)

- Height: a minimum of 18 inches above ground level (30 inches maximum).
- Reinforcement: fabric securely fastened to posts with wood lath.
- Support Posts: 2 x 2 inch hardwood posts. Steel fence posts may be substituted for hardwood posts (steel posts should have projections for fastening fabric).
- Spacing: Eight feet maximum if fence is supported by wire mesh fencing.
- Six feet maximum for extra-strength fabric without wire backing.

INSTALLATION

- Prefabricated silt fence (see Exhibits 1, 2, and 3)
 - Lay out the location of the fence so that it is parallel to the contour of the slope and at least 10 feet beyond the toe of the slope to provide a sediment storage area.
 - Turn the ends of the fence up slope such that the point of contact between the ground and the bottom of the fence and terminates at a higher elevation than the top of the fence at its lowest point (see Exhibit 1).
 - Excavate an eight-inch deep by four-inch wide trench along the entire length of the fence line (see Exhibit 2). Installation by plowing is also acceptable.
 - Install the silt fence with the filter fabric located on the up-slope side of the excavated trench and the support posts on the down-slope side of the trench.
 - Drive the support posts at least 18 inches into the ground, lightly stretching the fabric between the posts as each is driven into the soil. A minimum of 12 inches of the filter fabric should extend into the trench. (If it is necessary to join the ends of two fences, use the wrap joint method shown in Exhibit 3.)
 - Lay the lower four inches of filter fabric on the bottom of the trench and extend it toward the up-slope side of the trench.
 - Backfill the trench with soil material and compact it in place.

Note: If the silt fence is being constructed on-site, attach the filter fabric to the support posts (refer to Tables 1 and 2 for spacing and geotextile specifications) and attach wooden lath to secure the fabric to the posts. Allow for at least 12 inches of fabric below ground level. Complete the silt fence installation, following steps 1 through 6 above.

Materials and Silt Fence Specifications

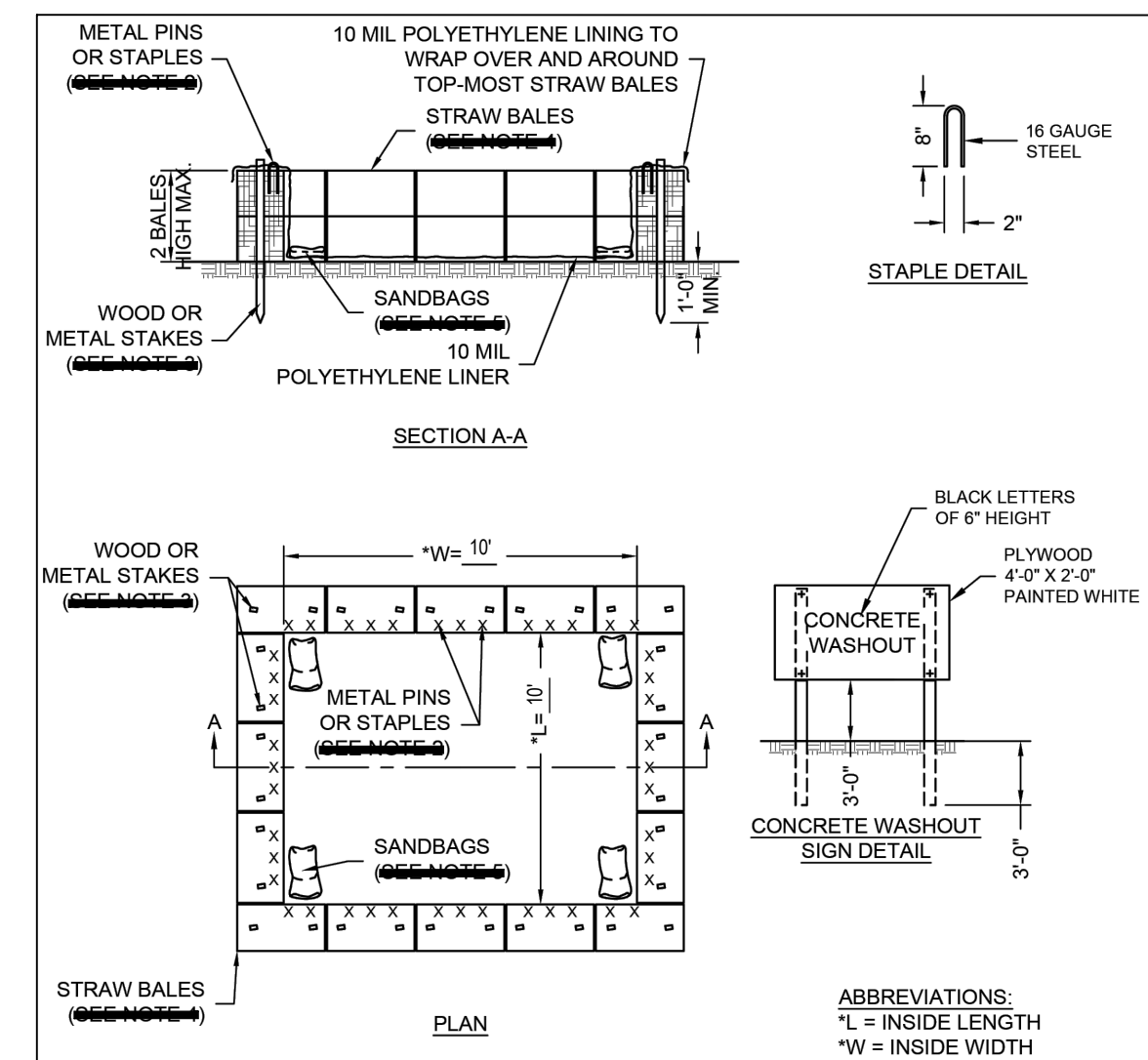
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- Spacing: Eight feet maximum if fence is supported by wire mesh fencing.
- Six feet maximum for extra-strength fabric without wire backing.

Note: FILTER TUBE/ FILTER SOCKS MAY BE SUBSTITUTED

Sediment Barriers & Filters



Temporary Concrete Washout

CONCRETE WASHOUT

SPECIFICATIONS

- **Location**
 - Locate concrete washout systems at least 50 feet from any creeks, wetlands, ditches, karst features, or storm drain/in-made conveyance systems.
 - To the extent practical, locate concrete washout systems in relatively flat areas that have established vegetative cover and do not receive runoff from adjacent land areas.
 - Locate in areas that provide easy access for concrete trucks and other construction equipment.
 - Locate away from other construction traffic to reduce the potential for damage to the system.

ABOVE GRADE SYSTEM

- A system designed and built above grade should be a minimum of ten feet wide by ten feet long, but sized to contain all liquid and waste that is expected to be generated between scheduled cleanup periods. The size of the containment system may be limited by the size of polyethylene available. The polyethylene lining should be of adequate size to extend over the berm or containment system.
- The system design may utilize an earthen berm, straw bales, sandbags, or other acceptable barriers that will maintain its shape and integrity and support the polyethylene lining.
- Include a minimum four-inch freeboard as part of the design.

Washout Procedures

- Do not leave excess mud in the chutes or hopper after the pour. Every effort should be made to empty the chutes and hopper at the pour. The less material left in the chutes and hopper, the quicker and easier the cleanup. Small amounts of excess concrete (not washout water) may be disposed of in areas that will not result in flow to an area that is to be protected.

CONCRETE WASHOUT

SPECIFICATIONS

- At the washout location, scrape as much material from the chutes as possible before washing them. Use non-water cleaning methods to minimize the chance for waste to flow off site.
- Remove as much mud as possible when washing out. Stop washing out in an area if you observe water running off the designated area or if the containment system is leaking or overflowing and ineffective.
- Do not back flush equipment at the project site. Back flushing should be restricted to the plant as it generates large volumes of waste that more than likely will exceed the capacity of most washout systems. If an emergency arises, back flush should only be performed with the permission of an on-site manager for the project.
- Do not use additives with wash water. Do not use solvents or acids that may be used at the target plant.

Materials

- Minimum of ten millimeter polyethylene sheeting that is free of holes, tears, and other defects. The sheeting selected should be of an appropriate size to fit the washout system without seams or overlap of the lining (designed and installed systems).
- Signage.
- Orange safety fencing or equivalent.
- Straw bales, sandbags (bags should be ultraviolet-stabilized geotextile soil material, or other appropriate materials that can be used to construct a containment system (above grade systems).
- Metal pins or staples at a minimum of six inches in length, sandbags, or alternative fastener to secure polyethylene lining to the containment system.
- Non-collapsing and non-water holding cover for use during rain events (optional).

TEMPORARY CONSTRUCTION INGRESS/ EGRESS PAD

SPECIFICATIONS

- **Location**
 - Avoid locating on steep slopes or at curves in public roads.

Dimensions

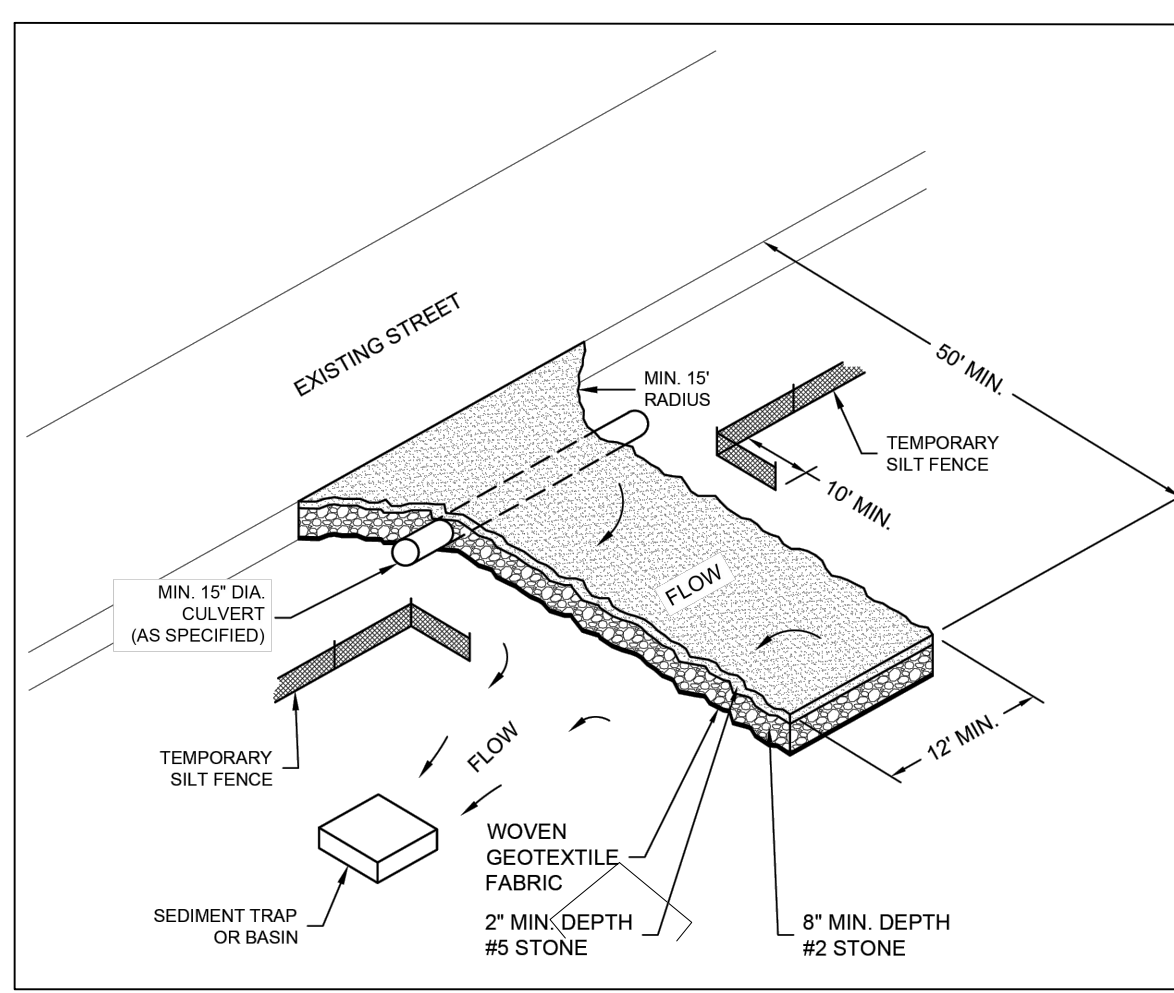
- **SITES LESS THAN (2) ACRES**
 - Width: 12 feet minimum or full width of entrance/exit drive, whichever is greater.
 - Length: 50 feet minimum or full length of drive, whichever is greater.
 - Thickness - (8") six inches minimum.

SITES (2) ACRES AND GREATER

- Width: 20 feet minimum or full width of entrance/exit drive, whichever is greater.
- Length: 150 feet minimum or full length of drive, whichever is greater.
- Thickness - (8") eight inches minimum.

Materials

- One to two and one-half inch diameter washed aggregate (INDOT CA No. 2).
- One-half to one and one-half inch washed aggregate (INDOT CA No. 53).
- Geotextile fabric underlayment (SEE SPECS) FOR separation layer to prevent intermixing of aggregate and the underlying soil material and to provide greater bearing strength when encountering wet conditions OR soils with a seasonal high water table limitation).



Temporary Construction Entrance

INSTALLATION

- Remove all vegetation and other objectionable material from the foundation area.
- Grade the foundation and crown for positive drainage if the slope of the construction entrance is toward a public road and exceeds two percent, construct an eight inch high diversion ridge with a ratio of 3-to-1 side slopes across the foundation area 15 feet +/- from the entrance to divert runoff away from the road.
- Install a culvert pipe under the pad if needed to maintain proper public road drainage.
- When wet conditions are anticipated, place geotextile fabric on the graded foundation to improve stability.
- Place aggregate (INDOT CA No. 2) to the dimensions and grade shown in the construction drawings, provide surface smooth and sloped for drainage.
- Top-dress the drive with washed aggregate (INDOT CA No. 53).
- Where existing grade will allow, divert all storm water runoff and drainage from the temporary construction ingress/egress pad to a sediment trap or basin.

MAINTENANCE

- Inspect 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 FROM THE CONSTRUCTION DRIVE CAN BE CONVEYED INTO A SEDIMENT TRAP OR BASIN.

Site Access and Preparation



C901

EROSION CONTROL DETAILS

DRAWN BY: DRT
 COMMISSION NUMBER: F25111
 REVISION: DATE:
 REVIEWED BY: JLB
 DATE: 2026-04-09

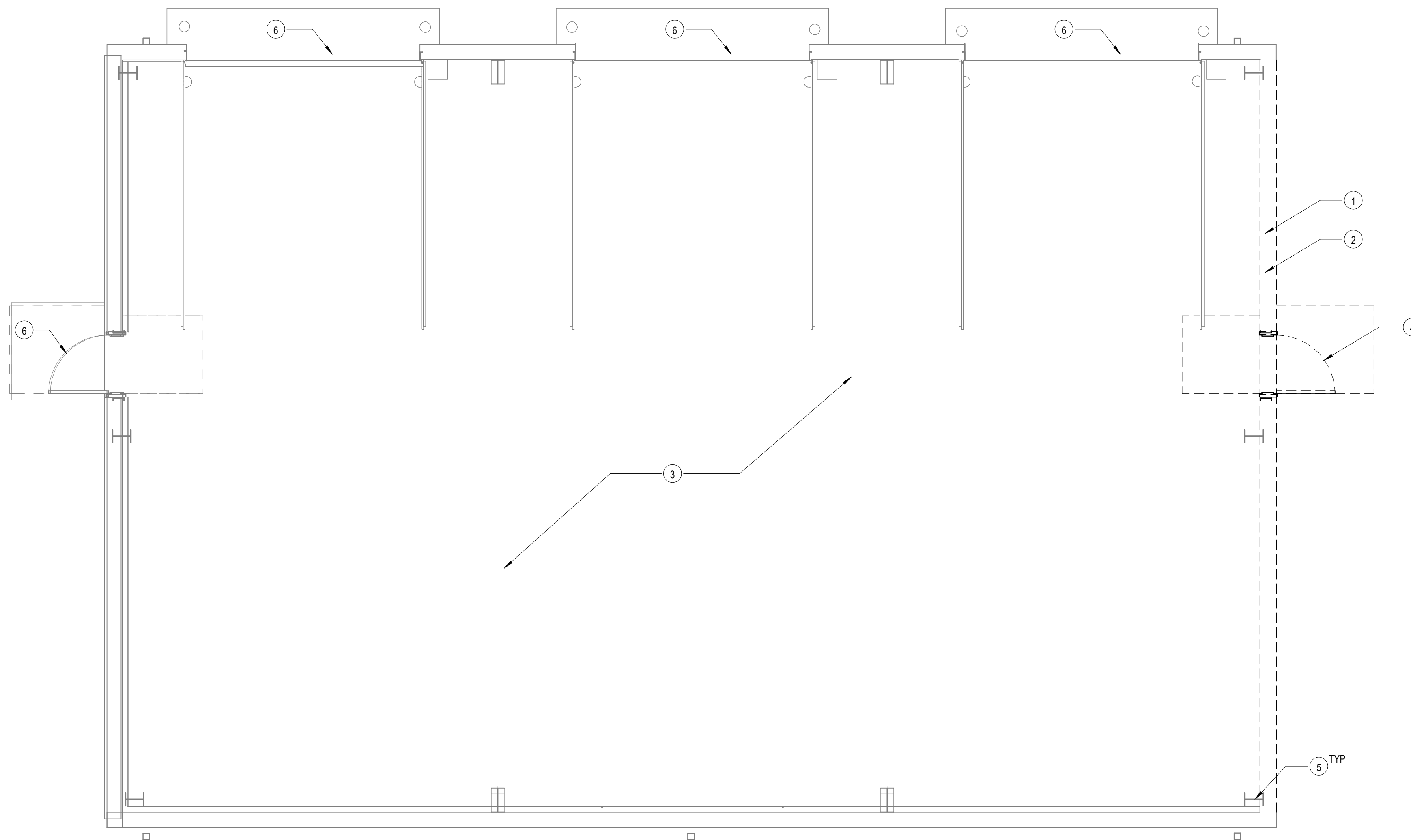
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 Campus Maintenance Building Addition -
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Demolition Notes

- 1 DEMOLISH WALL IN ITS ENTIRETY. WALL/DOOR DEMOLITION TO OCCUR AFTER NEW WALLS HAVE BEEN CONSTRUCTED.
- 2 REMOVE ROOF FASCIA, PREP FOR CONSTRUCTION
- 3 EXISTING SLAB TO REMAIN, PROTECT AS NECESSARY DURING CONSTRUCTION
- 4 SALVAGE DOOR AND HARDWARE FOR REUSE IN NEW WALL. REFER TO A101
- 5 ALL STRUCTURAL FRAMING TO REMAIN. PROTECT AS NEEDED DURING CONSTRUCTION. TOUCH UP PAINT AS NEEDED
- 6 DOORS TO REMAIN. PROTECT AS NECESSARY DURING CONSTRUCTION

General Demolition Notes

1. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ALL ITEMS REMOVED FROM THE BUILDING. ITEMS NOT WANTED BY OWNER SHALL BECOME PROPERTY OF CONTRACTOR AND SHALL BE DISPOSED OF LEGALLY OFF SITE.
2. FAILURE OF AFFECTED TRADES TO RECOGNIZE DEMOLITION AS A COMPONENT OF A SYSTEM SHALL NOT BE CAUSE FOR AN EXTRA.
3. ALL EXISTING CONSTRUCTION SHOWN IS FOR REPRESENTATION PURPOSES ONLY. CONTRACTOR TO FIELD VERIFY CONDITIONS AND ALL EXISTING CONSTRUCTION TO BE DEMOLISHED.
4. CONTRACTOR SHALL REMOVE ALL INCIDENTAL ITEMS SURFACE MOUNTED TO WALLS, INCLUDING BUT NOT LIMITED TO EMERGENCY LIGHTS, SIGNAGE, ELECTRICAL COMPONENTS, ETC.
5. CONTRACTOR SHALL PATCH AND REPAIR ANY WALLS, FLOORS AND CEILINGS AFFECTED BY DEMOLITION.
6. DISCONNECT AND COMPLETELY REMOVE ALL CONDUIT, WIRE BOXES, ETC TO BE RENDERED OBSOLETE BY THIS WORK, UNLESS OTHERWISE NOTED. REMOVE WIRE & CONDUIT BACK TO ITS SOURCE.
7. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AFFECTED BY DEMOLITION WORK. VERIFY THAT EQUIPMENT TO REMAIN IS FUNCTIONAL AFTER DEMOLITION.
8. CONTRACTOR SHALL DESIGN AND PROVIDE ALL TEMPORARY SHORING NECESSARY TO COMPLETE THE WORK.
9. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REWORK TO ACCOMPLISH THIS PROJECT AS SET FORTH IN THESE DOCUMENTS. THE CONTRACTOR SHALL TAKE INTO CONSIDERATION ALL SHEETS TO DETERMINE THE FULL SCOPE OF DEMOLITION AND REWORK REQUIRED.
10. PREPARE ALL SALVAGED MATERIALS FOR RE-INSTALLATION. PROVIDE ANY REQUIRED FASTENERS, ACCESSORIES OR OTHER COMPONENTS FOR INSTALLATION.



New Construction and Renovation Work For:

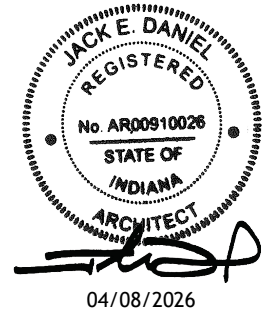
C.20.10211 PFW West Campus
 Maintenance Building Addition - 2026

2101 E. Coliseum Blvd.
 Fort Wayne, IN 46805

PURDUE
 UNIVERSITY
FORT WAYNE

MARTIN RILEY
 architects+engineers

221 West Baker Street
 Fort Wayne, Indiana 46802
 pho 260.422.7994
 fax 260.426.2067



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REVISION: DATE:

DRAWN BY: PJ
 COMMISSION NUMBER: F25111
 REVIEWED BY: JEF
 DATE: 2026-03-13

D101

DEMOLITION PLAN

Concrete Notes

- 1. DESIGN COMPLIES WITH THE AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)..."
2. CONCRETE CONSTRUCTION MUST BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE "SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301)..."
3. WHEN CONDITIONS ARE SUCH THAT THE AMBIENT TEMPERATURE MAY BE EXPECTED TO BE 40°F OR LESS, WORK MUST COMPLY WITH THE AMERICAN CONCRETE INSTITUTE "GUIDE TO COLD WEATHER CONCRETING (ACI 306R)..."
4. WHEN CONDITIONS ARE SUCH THAT THE AMBIENT TEMPERATURE MAY BE EXPECTED TO BE 80°F OR HIGHER, WORK MUST COMPLY WITH THE AMERICAN CONCRETE INSTITUTE "GUIDE TO HOT WEATHER CONCRETING (ACI 305R)..."
5. CONCRETE TO BE NORMAL WEIGHT CONCRETE COMPLYING WITH THE FOLLOWING REQUIREMENTS:
1. FOUNDATIONS:
a. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, f_c = 4000 psi
b. MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO, w/cm = 0.50
c. AIR-ENTRAINED WITH 5% AIR CONTENT (+/- 1.5%)
2. EXTERIOR EXPOSED SLABS, WALLS, PIERS, PEDESTALS AND COLUMNS:
a. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, f_c = 5000 psi
b. MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO, w/cm = 0.45
c. AIR-ENTRAINED WITH 5% AIR CONTENT (+/- 1.5%)
3. INTERIOR SLABS, WALLS, PIERS, PEDESTALS AND COLUMNS:
a. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, f_c = 4000 psi
b. MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO, w/cm = 0.50
6. THE CONTRACTOR MUST SUBMIT CONCRETE MIX DESIGNS TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE STRUCTURES.
7. THE CONTRACTOR SHALL TAKE SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY.
8. REINFORCING BARS TO BE DEFORMED BARS COMPLYING WITH THE REQUIREMENTS OF ASTM A615, GRADE 60.
9. WELDED WIRE REINFORCEMENT TO BE PLAIN WIRE COMPLYING WITH THE REQUIREMENTS OF ASTM A1064.
11. PLACEMENT OF REINFORCEMENT BARS IN FOOTINGS, WALLS AND COLUMNS TO BE EVENLY SPACED WITHIN THE STRUCTURE.
12. CONCRETE COVER FOR REINFORCEMENT MUST NOT BE LESS THAN THE FOLLOWING:
a. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
b. CONCRETE EXPOSED TO EARTH OR WEATHER:
6 THROUGH #18 BARS.....2"
9 BAR, #10 OR D31 WIRE, AND SMALLER.....1 1/2"
c. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALL, JOISTS:
14 BAR AND #18 BARS.....1 1/2"
11 BAR AND SMALLER.....3/4"
BEAMS, COLUMNS:
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS.....1 1/2"
13. CONTINUOUS UNCOATED REINFORCEMENT OF DEFORMED BARS NOT LARGER THAN #11 MAY BE LAPPED AT SPLICES.
14. CONCRETE FOUNDATIONS MUST NOT BE PLACED ON FROZEN GROUND SURFACE OR PLACED IN WATER.
15. ALL NORMAL STRENGTH CONCRETE MUST BE MAINTAINED ABOVE 50°F AND IN A MOIST CONDITION FOR A MINIMUM OF SEVEN DAYS AFTER PLACEMENT.
16. CONCRETE NOTED AS HIGH-EARLY STRENGTH MUST BE MAINTAINED ABOVE 50°F AND IN A MOIST CONDITION FOR A MINIMUM OF THREE DAYS AFTER PLACEMENT.
17. THE CONTRACTOR IS RESPONSIBLE TO DESIGN, FURNISH AND PLACE ALL TEMPORARY OR PERMANENT SHORING AND/OR BRACING TO PROTECT EXCAVATIONS, EXISTING STRUCTURES, AND UTILITIES ADJACENT TO THE SITE.
18. THE CONTRACTOR MUST PROVIDE ALL NECESSARY TEMPORARY SHORING REQUIRED TO RETAIN THE STABILITY OF THE STRUCTURE.
19. THE CONTRACTOR MUST PROVIDE ALL NECESSARY LABOR AND MATERIALS FOR UNDERPINNING REQUIREMENTS.
20. NEATLY FORMED EARTH TRENCHES MAY BE PERMITTED FOR CASTING SPREAD FOOTINGS AND GRADE BEAMS.
21. EARTH FORMED CONTINUOUS STRIP FOOTINGS ARE PROHIBITED.
22. SLOPE SLABS DOWN 1/4 INCH PER FOOT (2% SLOPE) TO ALL FLOOR DRAINS.
23. PROVIDE 2 - #4 x 3'-0" TOP AND BOTTOM AT 45° ANGLE AT ALL REINFRANT CORNERS IN CONCRETE SLAB.
24. PROVIDE 4 - #4 x 3'-0" AT ONE INCH CLEAR FROM TOP OF SLAB AT ALL DISCONTINUOUS CONTRACTION OR CONSTRUCTION JOINTS.
25. APPROVED POST-INSTALLED ANCHORS MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) AND ARE NOT TO BE USED IN CONCRETE WITH A STRENGTH GREATER THAN 8000 PSI.
26. POST-INSTALLED EXPANSION ANCHORS MUST MEET THE ASSESSMENT CRITERIA OF ACI 308.2.
27. POST-INSTALLED SCREW ANCHORS MUST MEET THE ASSESSMENT CRITERIA OF ACI 308.2.
28. POST-INSTALLED ADHESIVE ANCHORS MUST MEET THE ASSESSMENT CRITERIA OF ACI 308.4.
29. CONTRACTION JOINTS TO BE LOCATED ALONG COLUMN LINES, WITH INTERMEDIATE JOINTS LOCATED AT EQUAL SPACES BETWEEN COLUMN LINES.
30. ISOLATION JOINTS MUST BE PLACED BETWEEN THE SLAB AND ADJOINING BUILDING ELEMENTS.
31. EXPANSION AND ISOLATION JOINT MATERIAL TO BE PREFORMED, FLEXIBLE CLOSED CELL FOAM PLANK.
32. VAPOR BARRIER TO BE ASTM E1745, CLASS A PLASTIC SHEET VAPOR BARRIER WITH A MINIMUM THICKNESS OF 15 MILS.
33. PROVIDE MINIMUM R-7.5 EXTRUDED POLYSTYRENE INSULATION FOR ALL FOUNDATIONS BETWEEN TEMPERED AND UNCONDITIONED SPACES.

Structural Steel Notes

- 1. STRUCTURAL STEEL TO BE FABRICATED AND ERRECTED IN ACCORDANCE WITH AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
2. DETERMINE, FURNISH, AND INSTALL ALL TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BEAMS, FALSEWORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION.
3. STRUCTURAL STEEL SHOP STANDARD MATERIAL TO BE AS FOLLOWS:
a. W AND WT-SHAPES TO BE ASTM A992
b. M, S, MT, ST-SHAPES TO BE ASTM A36
c. HP-SHAPES TO BE ASTM A36
d. L-SHAPES TO BE ASTM A36
e. C AND MC-SHAPES TO BE ASTM A36
f. HSS-SHAPES TO BE ASTM A500, GRADE B
g. PIPE TO BE ASTM A53, GRADE B
h. PLATES AND BARS TO BE ASTM A36
i. ALL-THREAD ROD TO BE ASTM A36
j. ANCHOR RODS TO BE ASTM F1554, GRADE 36
k. HEADED STUDS TO BE TYPE B WITH MINIMUM TENSILE STRENGTH, F_u = 65 ksi, AND MINIMUM YIELD STRENGTH, F_y = 51 ksi.
4. HIGH-STRENGTH BOLTS SHALL MEET THE MATERIAL STRENGTHS OF ANSII/AS 360 SPECIFICATION GROUP A.
5. ALL WELDING MUST BE IN ACCORDANCE WITH THE AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" PUBLISHED BY THE AMERICAN WELDING SOCIETY.
6. THE STEEL FABRICATOR MUST DESIGN AND SUPPLY APPROPRIATE PRODUCTS FOR ALL STEEL AND METAL ITEMS.
7. FABRICATION "SHOP" DRAWINGS TO BE SUPPLIED BY THE CONTRACTOR.
8. ALL BOLTED CONNECTIONS TO BE SNUG-TIGHTENED JOINTS PER THE SPECIFICATION FOR STRUCTURAL JOINTS.
9. BOLTED CONNECTIONS INDICATED AS PRE-TENSIONED TO BE FASTENED BY MEANS OF THE TURN-OF-NUT METHOD.
10. SIMPLE SHEAR CONNECTIONS TO BE DESIGNED BY THE FABRICATOR'S ENGINEER.
11. SIMPLE SHEAR CONNECTIONS, NOT SHOWN IN THE DRAWINGS, TO BE DETAILED BY THE STEEL FABRICATOR.
12. HORIZONTAL AND VERTICAL BRACING CONNECTIONS TO BE DESIGNED BY THE FABRICATOR'S ENGINEER.
13. HORIZONTAL AND VERTICAL BRACING CONNECTIONS, NOT SHOWN IN THE DRAWINGS, MUST BE DETAILED BY THE FABRICATOR.
14. FABRICATE AND ERECT ALL BEAMS WITH THE MILL CAMBER UP.
15. ALL STRUCTURAL STEEL TO BE CLEANED AND PREPARED FOR THE SPECIFIED COATING SYSTEM.
16. STRUCTURAL STEEL MEMBERS COMPLETELY ENCLOSED IN THE BUILDING ENVELOPE.
17. STRUCTURAL STEEL MEMBERS ON THE EXTERIOR OF THE BUILDING, EXPOSED TO SOL, OR OTHERWISE.
18. THE CONTRACTOR THAT PERFORMS TOUCH-UP AND FIELD PAINTING IS RESPONSIBLE FOR ALL TOUCH-UP OF ABRASIONS.
19. NON-SHRINK GROUT USED FOR SETTING AND FINISHING COLUMN BASE PLATES.
20. METAL BUILDING SYSTEM MANUFACTURER MUST DESIGN BASE PLATES FOR FRAMES AND COLUMNS BASED ON THE ANCHOR BOLT SIZES AND SPACING IN BOTH ORTHOGONAL DIRECTIONS PROVIDED IN THESE DRAWINGS.

Soil Notes

- 1. FOUNDATIONS ARE DESIGNED FOR A MINIMUM BEARING CAPACITY OF 3000 psf FOR SPREAD FOOTINGS AND 2500 psf FOR STRIP FOOTINGS.
2. SLABS-ON-GROUND ARE DESIGNED FOR A MODULUS OF SUBGRADE REACTION OF 125 lb/in³.
3. INSPECTION AND TESTING OF SUBGRADES AND GRADES FOR EXCAVATIONS, FILL, FOUNDATIONS, SLABS-ON-GROUND, AND PAVEMENT MUST BE PERFORMED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.
4. FILL SELECTION, PLACEMENT, AND COMPACTION MUST BE PERFORMED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.
5. ALL SUBGRADES AND GRADES MUST BE:
a. FREE OF ALL ORGANIC, FROZEN OR OTHER DELETERIOUS MATERIALS, AND
b. INSPECTED AND APPROVED BY QUALIFIED ENGINEERING PERSONNEL.
6. REMOVE ALL ORGANIC FILL AND SOFT SOILS COMPONENTS.
7. IN UNDERCUT AND FILL AREAS, THE COMPACTED FILL MUST EXTEND:
a. A MINIMUM OF ONE FOOT BEYOND THE EDGE OF THE FOUNDATION OR PAVEMENT.
8. FILL MUST BE PLACED AND COMPACTED ON A MINIMUM 5H:1V (HORIZONTAL : VERTICAL) SLOPE.
9. COMPACTED FILL MATERIALS MUST BE FREE OF DELETERIOUS, ORGANIC OR FROZEN MATTER.
10. BASE COURSES PLACED UNDER SLABS-ON-GROUND, PAVEMENT, AND STOODPS MUST BE CLEAN, DENSELY-GRADED, GRANULAR MATERIAL.
11. EXTERIOR/UNHEATED AREA PAVEMENT, PLACED DIRECTLY UPON SOILS SUBJECT TO HEAVING.
12. THE DENSITY OF STRUCTURAL COMPACTED FILL AND SCARIFIED SUBGRADE.
13. EXCAVATION, FILLING, SUBGRADE AND GRADE PREPARATION MUST BE PERFORMED IN A MANNER.
14. EXCAVATION SLOPES SHOULD BE MAINTAINED WITHIN ALL REQUIREMENTS SET-FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA).
15. LOCATE ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
16. NON-STRUCTURAL FILL ADJACENT TO STRUCTURAL FILL MUST BE PLACED IN UNISON.

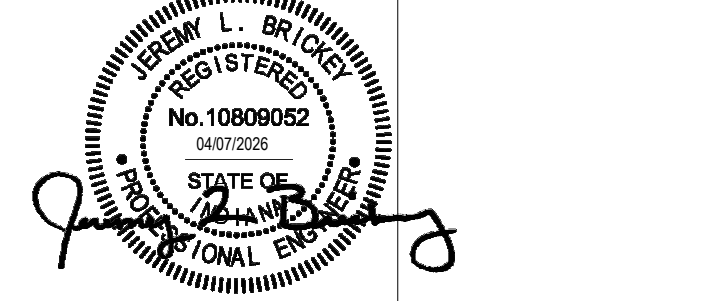
General Notes

- 1. ALL CONSTRUCTION MUST COMPLY WITH THE PROVISIONS OF THE CURRENTLY ADOPTED IBC, OSHA, AND ALL STATE AND LOCAL CODES AND THEIR SUPPLEMENTS.
2. THE CONTRACTOR MUST SUPPLY ALL MATERIAL SAFETY DATA SHEETS (MSDS) FOR CHEMICALS BROUGHT ONTO THE SITE.
3. SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS ARE NOT PART OF THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR'S SUBMITTAL OF SHOP DRAWINGS, SAMPLES, AND SIMILAR SUBMITTALS REPRESENTS TO THE OWNER AND DESIGN PROFESSIONAL OF RECORD THAT THE CONTRACTOR HAS (1) REVIEWED AND APPROVED THEM, (2) DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO, WILL DO SO, AND (3) CHECKED AND COORDINATED THE INFORMATION.
5. THE CONTRACTOR MUST FIELD CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING/PREVIOUSLY PHASED WORK.
6. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF CONCRETE, FACE OF EXISTING WALL AND/OR FACE OF NEW FRAMING.
7. INDICATED DIMENSIONS ARE TAKEN FROM CASUAL, FIELD OBSERVATIONS AND EXISTING DRAWINGS.
8. THE CONTRACTOR MUST SECURE ALL NECESSARY LOCAL PERMITS REQUIRED FOR IT'S WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ANY UTILITIES IN THE VICINITY OF THE CONSTRUCTION.
10. COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL, CIVIL, STRUCTURAL, ARCHITECTURAL DRAWINGS AND TRADES.
11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION EFFORTS OF ALL SUB-CONTRACTORS.
12. CONTRACTORS MUST COORDINATE THEIR WORK WITH THE OTHER TRADES.
13. REFER TO EQUIPMENT SCHEDULES AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.
14. PROTECT ALL EQUIPMENT, BUILDING, AND PAVEMENTS, NEW AND EXISTING, FROM DEBRIS AND DAMAGE.
15. PROVIDED CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE AND DO NOT INDICATE THE METHOD(S) OF CONSTRUCTION.
17. RISK CATEGORY II
a. SNOW IMPORTANCE FACTOR, I_s = 1.00
b. ICE IMPORTANCE FACTOR - THICKNESS, I_i = 1.00
c. ICE IMPORTANCE FACTOR - WIND, I_w = 1.00
d. SEISMIC IMPORTANCE FACTOR, I_p = 1.00
18. FLOORS, ROOFS, AND OTHER SIMILAR SURFACES ARE DESIGNED TO SUPPORT SAFELY THE LISTED UNIFORMLY DISTRIBUTED LIVE LOAD (psf) OR THE CONCENTRATED LOAD (lbs), WHICHEVER PRODUCES THE GREATER LOAD EFFECTS.
19. ROOF LIVE LOAD, L_r = 20 psf / 300 lbs
20. ROOF DEAD LOAD, D = 15 psf
21. ROOF COLLATERAL LOAD = 5 psf
22. FLOOR LIVE LOAD, L:
a. LIGHT STORAGE = 125 psf
b. TRUCK/HEAVY EQUIPMENT = H15-44
23. CONCENTRATED LOADS ON FLOORS, ROOFS, AND SIMILAR SURFACES ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED OVER AN AREA 2.5 ft x 2.5 ft.
24. CONCENTRATED LOADS ON STAIR TREADS ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED OVER AN AREA 2 in x 2 in.
25. GROUND SNOW LOAD, p_g = 20 psf
26. MINIMUM UNIFORM SNOW LOAD, p_u = I_p p_g = 20 psf
27. SNOW EXPOSURE FACTOR, C_e = 1.0
28. THERMAL FACTOR, C_t = 1.0
29. FLAT ROOF SNOW LOAD, p_s = (0.7)C_e C_t I_p p_g = 14 psf
30. ROOF SLOPE FACTOR, C_s = 1.0
31. SLOPED ROOF SNOW LOAD, p_s = C_e p_u = 14 psf
32. UNBALANCED SNOW LOAD, DRIFTING SNOW LOAD, AND SLIDING SNOW LOAD PER ASCE 7-10.
33. DESIGN WIND SPEED, V = 115 mph
34. WIND EXPOSURE CATEGORY C
35. INTERNAL PRESSURE COEFFICIENT, GCF_e = +/- 0.18
36. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:
a. SHORT PERIODS, S_s = 0.116g
b. 1-SECOND PERIODS, S_1 = 0.061g
37. SITE CLASS D
38. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
a. SHORT PERIODS, S_DS = 0.124g
b. 1-SECOND PERIODS, S_1 = 0.097g
39. SEISMIC DESIGN CATEGORY B
40. THE BASIC LATERAL AND VERTICAL SEISMIC FORCE-RESISTING SYSTEM SHALL CONFORM TO A STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.
41. RESPONSE MODIFICATION COEFFICIENT, R = 3
42. SEISMIC ANALYSIS BY EQUIVALENT LATERAL FORCE PROCEDURE.

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Maintenance Building Addition - 2026
2101 E. Coliseum Blvd.
Fort Wayne, IN 46805-1499



221 West Baker Street
Fort Wayne, Indiana 46802
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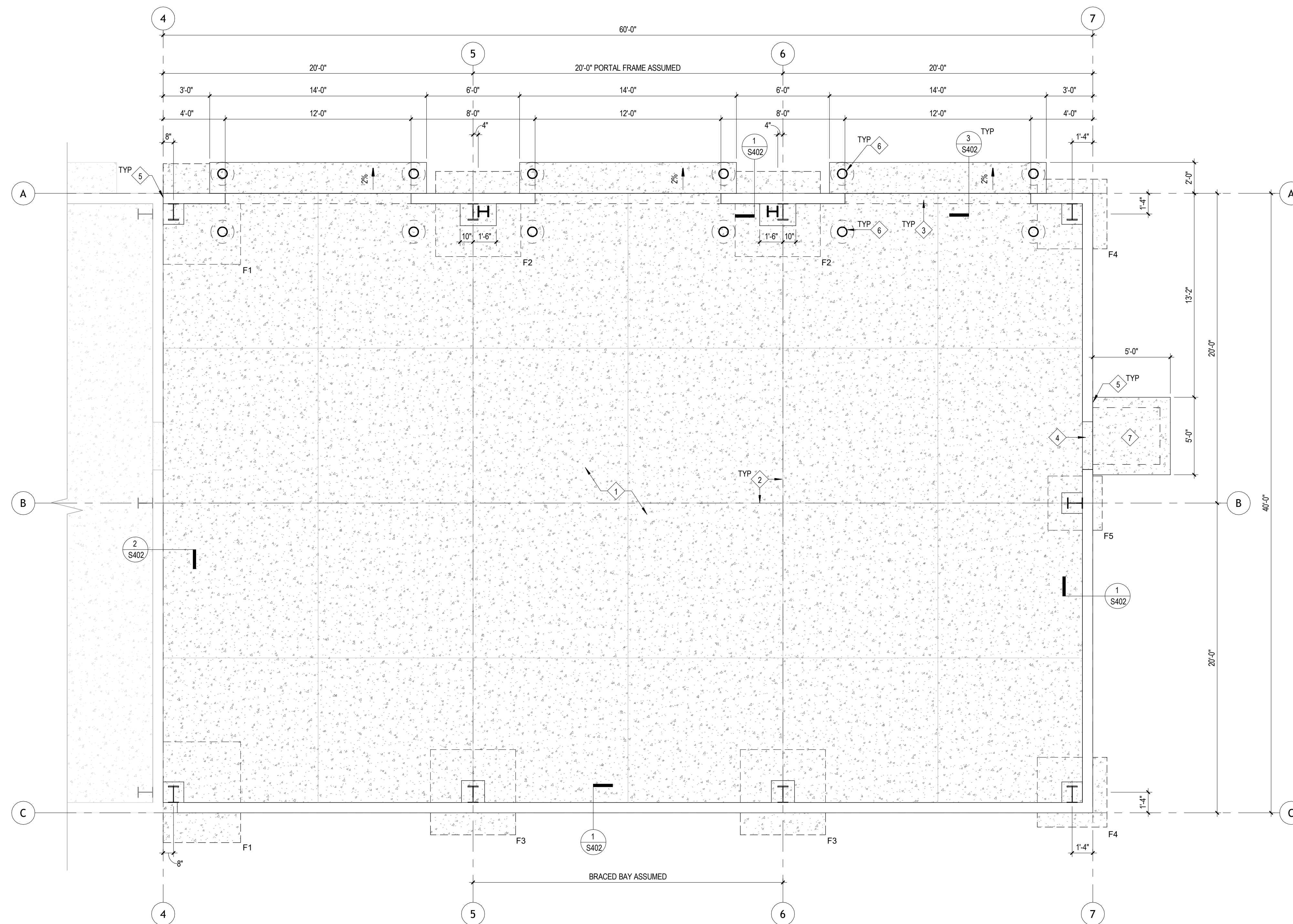
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COMMISSION NUMBER: F25111
REVIEWED BY: JLB
DATE: 2026-03-13

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STRUCTURAL SPECIFICATIONS

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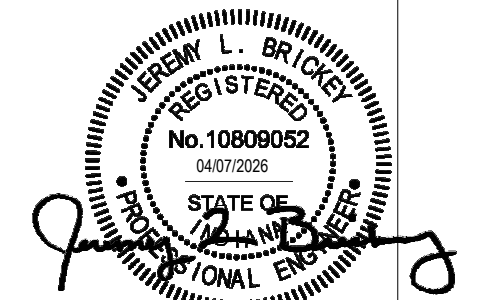
1 Foundation Plan
1/4" = 1'-0"

Work Description Notes

- 1 PROVIDE AND PLACE SIX INCH THICK CONCRETE SLAB REINFORCE SLAB WITH 6#6 - W1.4#1.4 WELDED WIRE REINFORCEMENT (WWR) PLACED WITH 1 1/2" TO 2" OF COVER.
- 2 PLACE SAWCUT CONTRACTION JOINTS IN ACCORDANCE WITH DETAIL 9/S402
- 3 FORM OPENING, PLACE REINFORCEMENT AND ISOLATION JOINT IN ACCORDANCE WITH DETAIL 3/S401
- 4 FORM OPENING, PLACE REINFORCEMENT AND ISOLATION JOINT IN ACCORDANCE WITH DETAIL 4/S401
- 5 DRILL-IN AND ANCHOR WITH ADHESIVE (3) #4 x 1'-6" DOWELS INTO HARDENED CONCRETE WITH SIX INCH EMBEDMENT. PLACE ONE DOWEL AT TOP, BOTTOM, AND CENTER OF GRADE BEAM IN ACCORDANCE WITH ADHESIVE MANUFACTURER'S SPECIFICATIONS
- 6 PROVIDE AND INSTALL PROTECTIVE BOLLARD. SEE DETAIL 10/S402
- 7 PROVIDE AND PLACE FOUR INCH THICK CONCRETE STOOP. REINFORCE WITH 6#6 - W1.4#1.4 WELDED WIRE REINFORCEMENT (WWR) PLACED IN TOP THIRD OF SLAB DEPTH. SEE DETAIL 4/S402

Foundation Plan Notes

1. PLAN REFERENCE ELEVATIONS:
a. TOP OF CONCRETE SLAB = 100'-0"
b. TOP OF FOOTING = 96'-6"
c. TOP OF PEDESTALS = 100'-0"
d. TOP OF GRADE BEAM = 100'-0"
2. FINISH GRADE MUST BE COMPLETED SUCH THAT THE BOTTOM OF FOUNDATIONS ARE LOCATED A MINIMUM OF 3'-0" BELOW FINISH GRADE.
3. CENTER ALL FOOTINGS ON WALL, PEDESTAL, PIER OR COLUMN ABOVE, UNLESS OTHERWISE INDICATED.
4. WHERE COLUMN FOOTINGS INTERSECT FOUNDATION WALL FOOTINGS, EXTEND ALL WALL REINFORCEMENT DOWELS DOWN TO BOTTOM LAYER OF COLUMN FOOTING REINFORCEMENT.
5. WHERE FOUNDATION WALL INTERSECTS COLUMN PEDESTAL, EXTEND ALL LONGITUDINAL FOUNDATION WALL REINFORCEMENT THROUGH COLUMN PEDESTAL.
6. WHERE FOUNDATION WALL FOOTING INTERSECTS COLUMN FOOTING, EXTEND ALL LONGITUDINAL STEM WALL FOOTING REINFORCEMENT THROUGH COLUMN FOOTING.
7. SLAB-ON-GROUND TO BE PLACED OVER AN APPROVED VAPOR BARRIER AND MINIMUM SIX INCH COMPACTED CLEAN GRANULAR BASE COURSE BEARING ON A SUITABLY PREPARED SUBGRADE.
8. STOOPS TO BE PLACED OVER A MINIMUM FOUR INCH WELL COMPACTED CLEAN GRANULAR BASE COURSE BEARING ON A SUITABLY PREPARED SUBGRADE.
9. SPREAD BARS AROUND SMALL OPENINGS AND SLEEVES IN SLABS AND WALLS WHERE POSSIBLE AND WHERE BAR SPACING WILL NOT EXCEED 1.5 TIMES THE NORMAL SPACING. DISCONTINUE BARS AT LARGE OPENINGS WHERE NECESSARY AND PROVIDE AN AREA OF REINFORCEMENT EQUAL TO THE INTERRUPTED REINFORCEMENT, DISTRIBUTING ONE HALF OF THIS REINFORCEMENT EACH SIDE OF THE OPENING (CLASS B TENSION LAP SPLICED). HOLES LARGER THAN 12 INCHES IN ANY DIRECTION SHALL HAVE 1 - #5 x 4'-0" DIAGONAL BARS IN BOTH FACES AT EACH CORNER (SEE DETAIL 6/S402).
10. ALL OPENINGS THROUGH WALLS, SLABS OR OTHER STRUCTURAL ELEMENTS NOT DETAILED ON THE DRAWINGS MUST BE LOCATED BY THE CONTRACTOR AND SHOWN ON THE APPLICABLE REINFORCING STEEL SHOP DRAWINGS. THE FINAL LOCATION OF ALL OPENINGS BE REVIEWED BY THE ENGINEER OF RECORD BEFORE THE CONCRETE IS PLACED.
11. SPREAD FOOTING AND PEDESTAL SIZES ARE BASED ON GENERALLY ACCEPTED ENGINEERING PRINCIPLES, ASSUMED BRACED BAY LOCATIONS, AND SPECIFIED DESIGN LOADS. CONTRACTOR MUST COORDINATE FOUNDATION DESIGN PRESENTED HERE WITH FINAL REACTIONS PROVIDED BY THE METAL BUILDING SYSTEM MANUFACTURER CHOSEN BY CONTRACTOR.



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REVISION	DATE

DRAWN BY: NMS	REVIEWED BY: JLB
COMMISSION NUMBER: F25111	DATE: 2026-03-13

S101

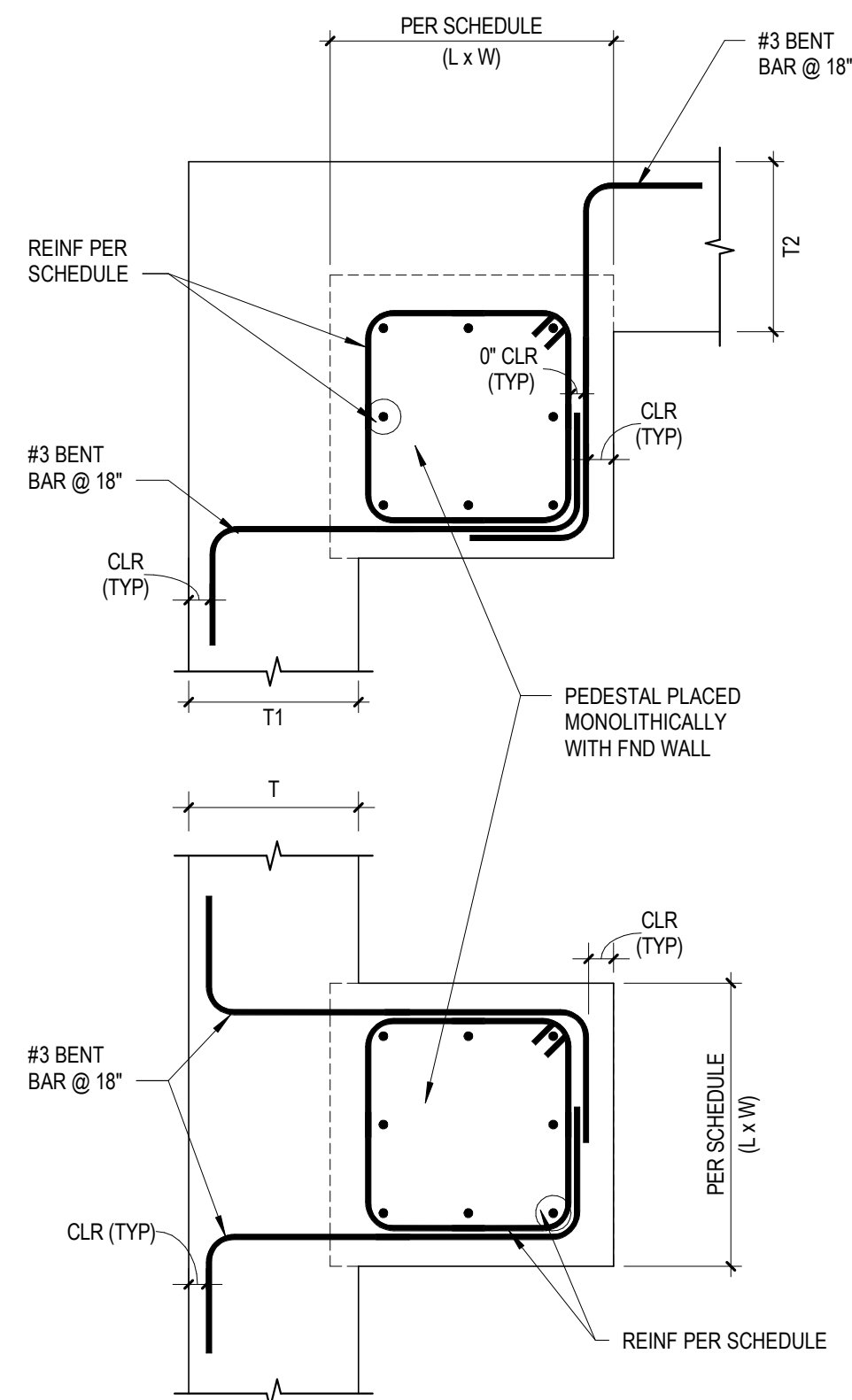
FOUNDATION PLANS

New Construction and Renovation Work For:
**C.20.10211 PFW West Campus
Maintenance Building Addition - 2026**
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 Fort Wayne, IN 46805-1499

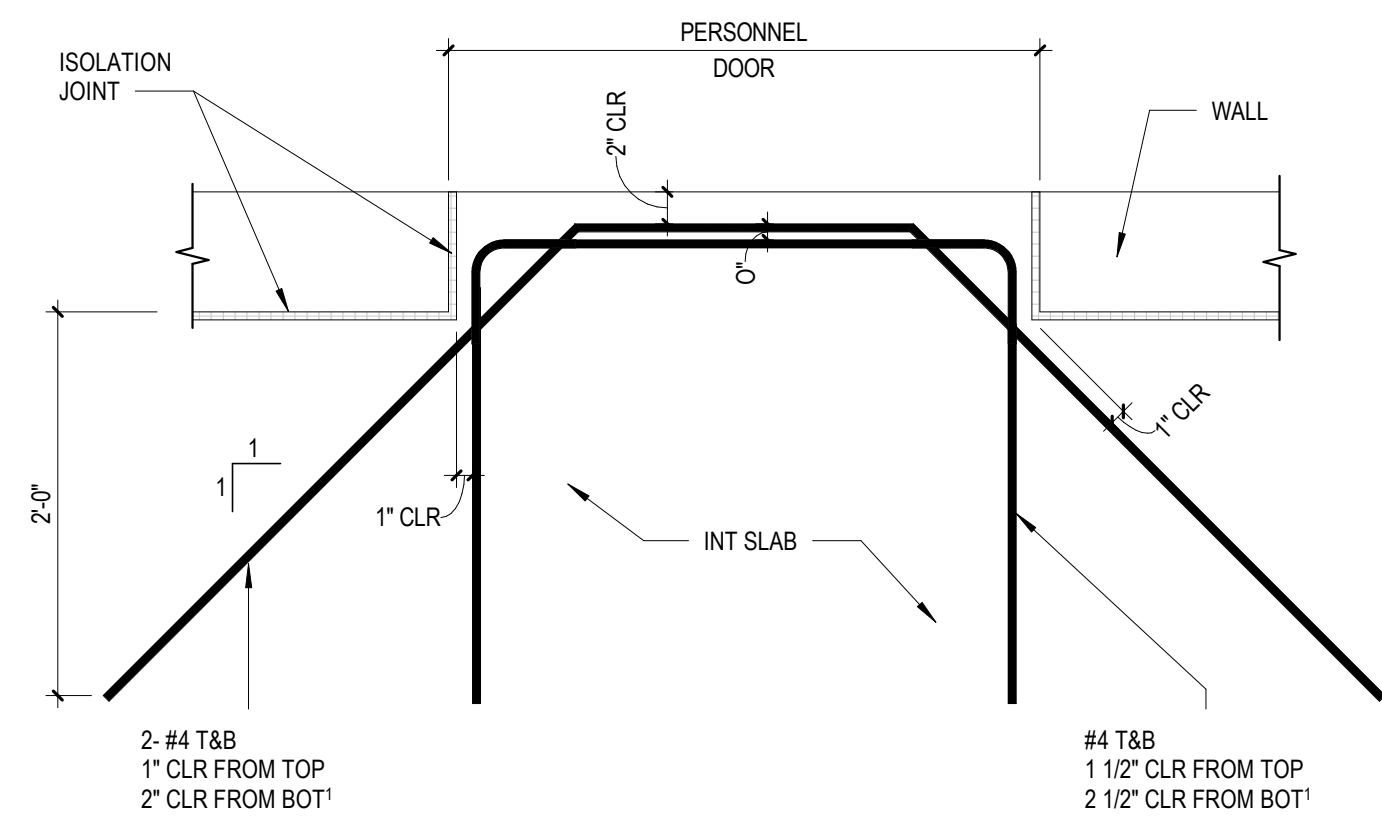
PURDUE UNIVERSITY
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architects-engineers

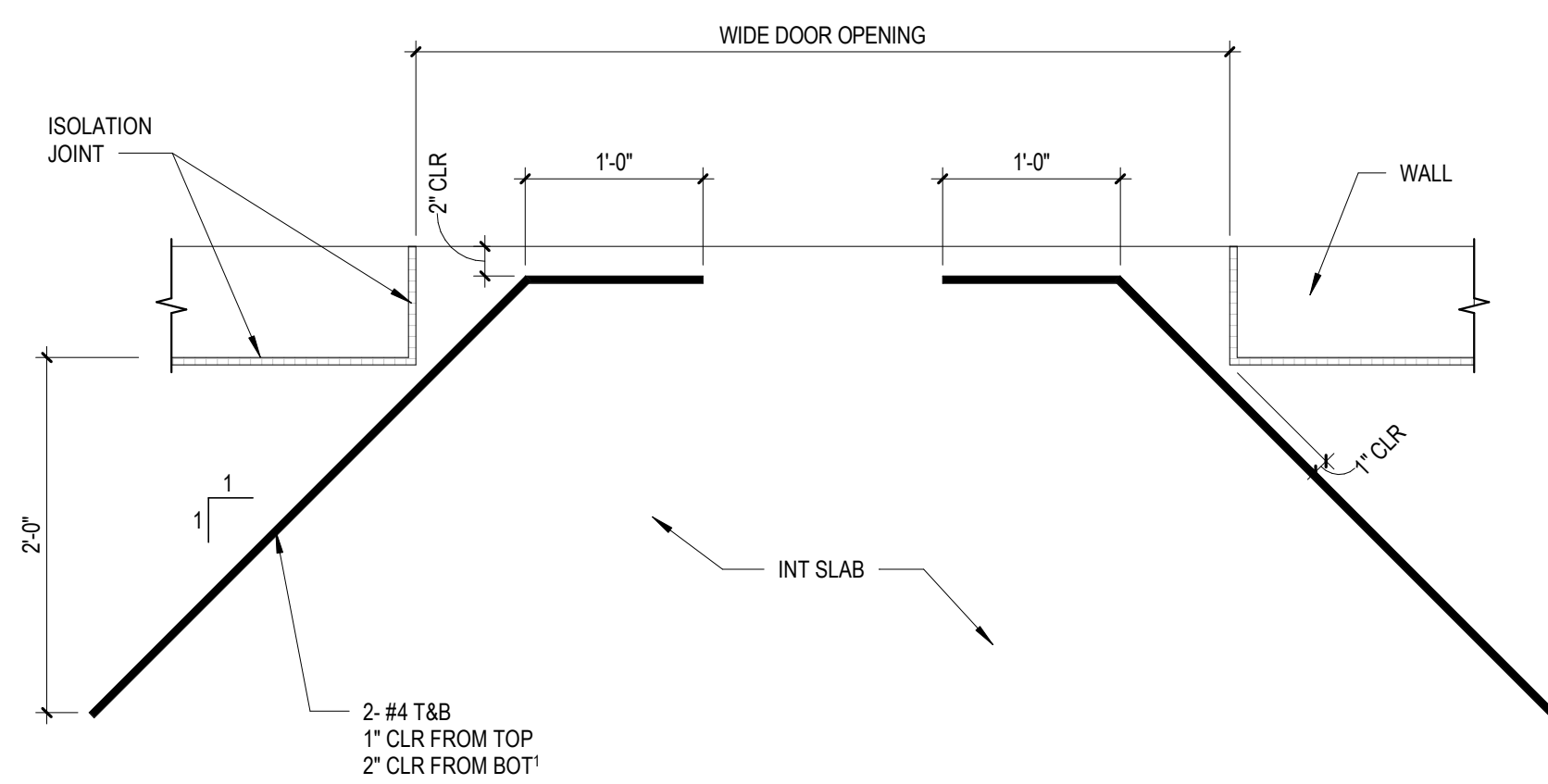
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pho 260.422.7994
fax 260.426.2067



5 Typical Pedestal Tie-Backs
1" = 1'-0"



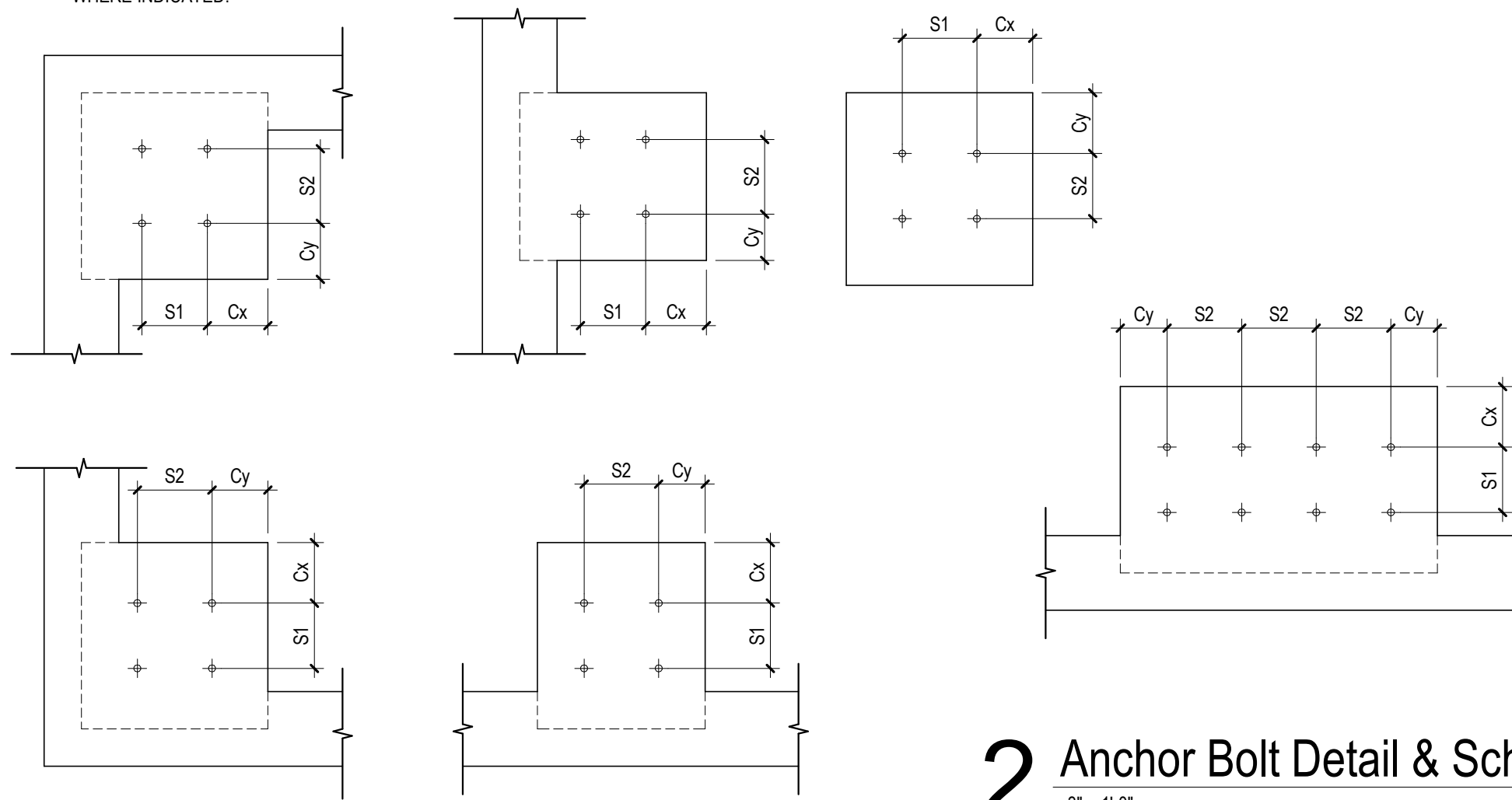
4 Slab at Reinforcement at Personnel Door Opening
1" = 1'-0"



3 Slab Reinforcement at Wide Door Opening
1" = 1'-0"

COLUMN LOCATION	FOOTING MARK	DIAMETER	Cx	Cy	S1	S2	EMBED	PROJ ⁶	GRADE, F _y	WASHER ⁸	GRT PAD ⁴	REMARKS
A-4, C-4	F1	3/4"	5 1/2"	5 1/2"	5"	5"	9"	4"	55 ksi	1/4" x 2"	1 1/2"	ECCENTRIC FOOTING
A-5, A-6	F2	3/4"	6 1/2"	6 1/2"	5"	5", 5", 5"	9"	4"	55 ksi	1/4" x 2"	1 1/2"	MAIN FRAME & PORTAL FRAME ANCHORAGE
C-5, C-6	F3	3/4"	6 1/2"	6 1/2"	5"	5"	9"	4"	55 ksi	1/4" x 2"	1 1/2"	
A-7, C-7	F4	3/4"	5 1/2"	5 1/2"	5"	5"	9"	4"	55 ksi	1/4" x 2"	1 1/2"	
B-7	F5	3/4"	5 1/2"	5 1/2"	5"	5"	9"	4"	55 ksi	1/4" x 2"	1 1/2"	

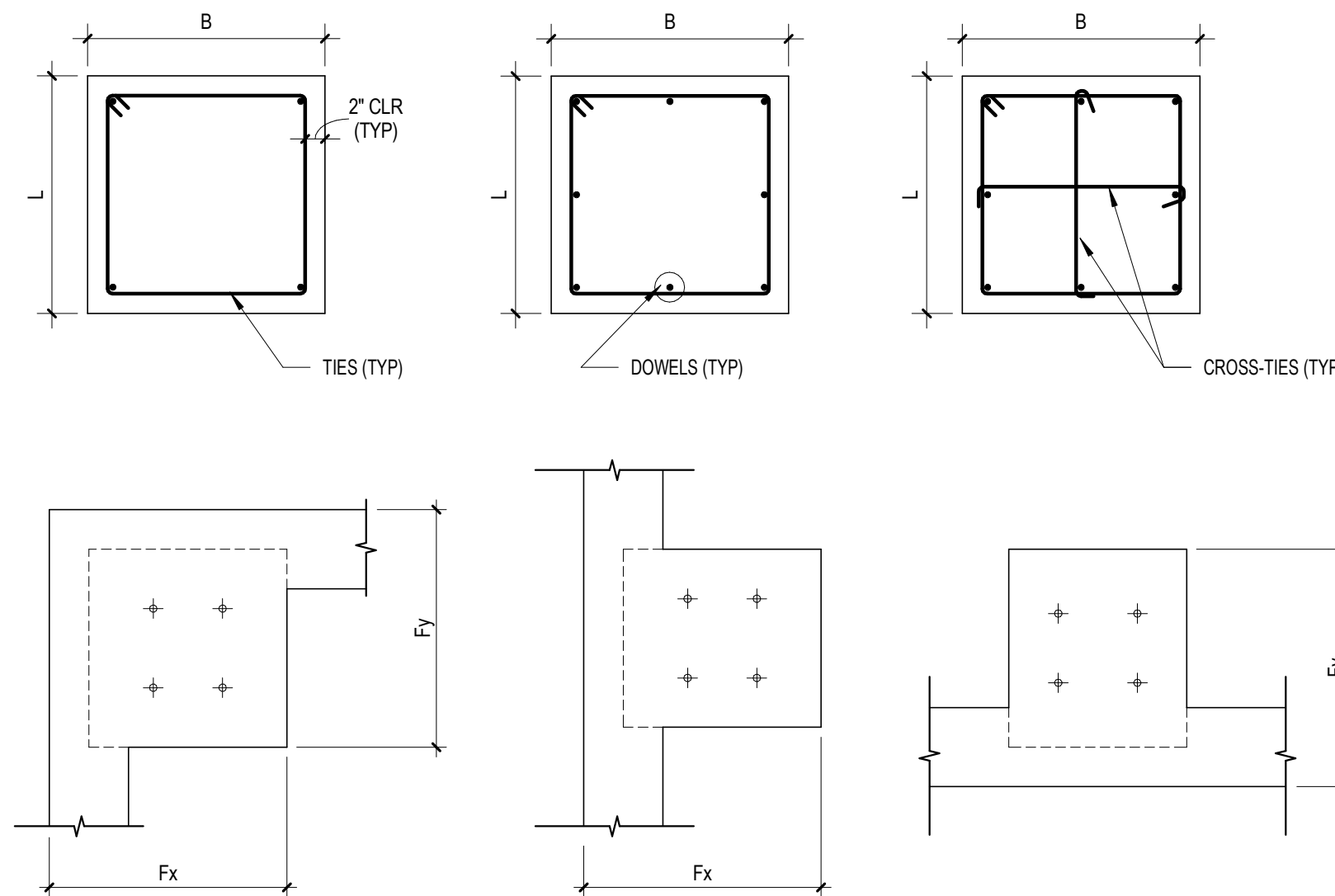
- ANCHOR BOLT SIZES AND SPACING ARE BASED ON GENERALLY ACCEPTED ENGINEERING PRINCIPLES IN ACCORDANCE WITH ACI 318, ASSUMED BRACED BAY LOCATIONS, AND SPECIFIED DESIGN LOADS. CONTRACTOR MUST COORDINATE ANCHOR BOLT DESIGN PRESENTED HERE WITH FINAL BASE PLATES AND ANCHOR LOCATIONS PROVIDED BY THE METAL BUILDING SYSTEM MANUFACTURER CHOSEN BY CONTRACTOR.
- FOUNDATION CONTRACTOR MUST MAINTAIN ALL DIMENSION TOLERANCES SHOWN WITHIN +/- 1/8".
- ANCHOR BOLTS/RODS SHALL BE SET WITH A TEMPLATE TO ASSIST WITH PROPER PLACEMENT. ANCHOR BOLT SPACING (S1 & S2) AND EDGE DISTANCES (Cx & Cy) PER SCHEDULE.
- LEVELING NUTS AND WASHERS SHALL NOT BE USED TO SUPPORT ANY COLUMN DURING ERECTION. IF GROUTING IS DELAYED UNTIL AFTER STEEL ERECTION, THE BASE PLATE MUST BE PROPERLY SHIMMED.
- GROUT SHALL BE NON-METALLIC, HIGH-STRENGTH, NON-SHRINK GROUT CONFORMING TO ASTM C1107.
- ANCHOR BOLT/ROD THREAD LENGTH TO BE 1/2 INCH LESS THAN THE SPECIFIED PROJECTION (THREAD LENGTH = PROJECTION - 1/2").
- ANCHOR BOLT/ROD NUTS SHALL BE DRAWN DOWN TIGHT, PER ANSI A10.13 SECTION 9.6.
- WASHER PLATES ARE NOT REQUIRED TO BE WELDED TO THE BASE PLATE, UNLESS NOTED OTHERWISE.
- CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE REQUIREMENTS ARE ACCEPTABLE. ASTM F844 (USS STANDARD) WASHERS MAY BE USED IN PLACE OF FABRICATED PLATE WASHERS WHERE INDICATED.



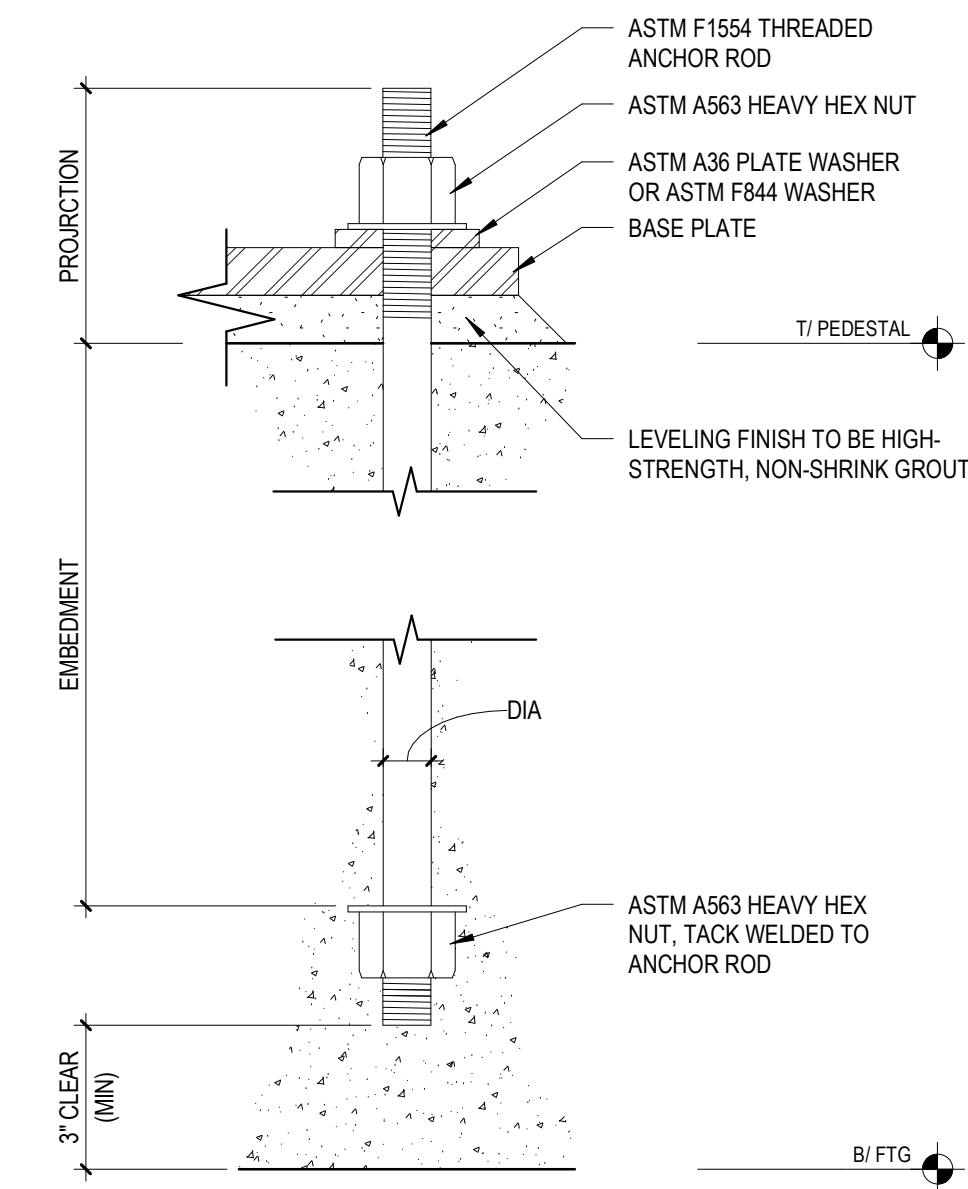
2 Anchor Bolt Detail & Schedule
3" = 1'-0"

COLUMN LOCATION	FOOTING MARK	PEDESTAL ^{4,8,9}										FOOTING ¹				REMARKS ^{2,3}
		L x B	TYPE ³	F _x ⁷	F _y ⁷	TIES ^{5,3}	CROSS-TIES ^{3,3}	DOWELS ²	T/PEDESTAL	L	B	H	T/FTG	REINFORCEMENT ^{1,3}		
A-4, C-4	F1 (ECCENTRIC FOOTING)	16" x 16"	CORNER	1'-4"	2'-0"	#3 @ 8"	N/A	8-#4	100'-0"	5'-0"	6'-6"	1'-0"	96'-6"	5-#5 TRANS T&B 5-#5 w/ 180° HOOK END @ PEDESTAL SIDE, LONG T&B	PEDESTAL LOCATED AT EDGE OF FOOTING AND CENTERED ALONG DIMENSION B. PEDESTAL CENTERED AT 8" OFF OF COLUMN LINE 4 AND 1'-4" OFF OF COLUMN LINE A & C	
A-5, A-6	F2	18" x 28"	EDGE	N/A	2'-1"	#3 @ 8"	#3 @ 8"	14-#4	100'-0"	5'-6"	5'-6"	1'-0"	96'-6"	5-#5 EW BOT	COMBINED MAIN FRAME AND PORTAL FRAME CENTERED AT 1'-4" OFF OF COLUMN LINE 4 & 4" OFF OF LINES 5 & 6	
C-5, C-6	F3	18" x 18"	EDGE	N/A	2'-1"	#3 @ 8"	#3 @ 8"	8-#4	100'-0"	5'-6"	5'-6"	1'-0"	96'-6"	5-#5 EW BOT	CENTERED AT 1'-4" OFF OF COLUMN LINE C	
A-7, C-7	F4	16" x 16"	CORNER	2'-0"	2'-0"	#3 @ 8"	N/A	8-#4	100'-0"	4'-6"	4'-6"	1'-0"	96'-6"	4-#5 EW BOT	CENTERED AT 1'-4" OFF OF COLUMN LINES A, C, AND 7	
B-7	F5	16" x 16"	EDGE	2'-0"	N/A	#3 @ 8"	N/A	8-#4	100'-0"	3'-6"	3'-6"	1'-0"	96'-6"	3-#5 EW BOT	CENTERED ON COLUMN LINE B AND 1'-4" OFF OF LINE 7	

- SPREAD FOOTING AND PEDESTAL SIZES ARE BASED ON GENERALLY ACCEPTED ENGINEERING PRINCIPLES, ASSUMED BRACED BAY LOCATIONS, AND SPECIFIED DESIGN LOADS. CONTRACTOR MUST COORDINATE FOUNDATION DESIGN PRESENTED HERE WITH FINAL REACTIONS PROVIDED BY THE METAL BUILDING SYSTEM MANUFACTURER CHOSEN BY CONTRACTOR.
- SEE SHEET S001 FOR MINIMUM CONCRETE COVERAGE REQUIREMENTS. REINFORCEMENT SHALL BE PLACED EQUALLY SPACED ACROSS THE SECTION IN DIRECTION INDICATED (TRANSVERSE OR LONGITUDINAL). THE TRANSVERSE DIRECTION IS PARALLEL TO THE BREADTH OF THE FOOTING AND THE LONGITUDINAL DIRECTION IS PARALLEL TO THE LENGTH OF THE FOOTING.
- STANDARD HOOKS AND MINIMUM BEND DIAMETERS SHALL BE IN ACCORDANCE WITH ACI 318, CHAPTER 7 - DETAILS OF REINFORCEMENT.
- TIES SHALL BE LOCATED NOT MORE THAN ONE-HALF A TIE SPACING (TS) ABOVE THE TOP OF FOOTING. AT LEAST TWO #4 TIES OR THREE #3 TIES SHALL BE DISTRIBUTED WITHIN FIVE INCHES OF THE TOP OF PEDESTAL. CROSS-TIES ARE REQUIRED FOR LONGITUDINAL BARS FARTHER THAN SIX INCHES CLEAR ON EACH SIDE ALONG THE PERIMETER TIE FROM A LATERALLY SUPPORTED BAR (SEE SECTION DETAILS BELOW).
- PEDESTALS TO BE CENTERED ON FOOTING, UNLESS OTHERWISE DETAILED OR NOTED.
- PEDESTAL TYPES REFER TO EDGE, CORNER, OR CENTER, AS INDICATED AND OTHERWISE SHOWN ON FOUNDATION PLANS AND GENERALLY DETAILED BELOW.
- PEDESTALS ARE TO BE BUILT MONOLITHICALLY AND TIED TO FOUNDATION WALL IN ACCORDANCE WITH PEDESTAL TIE-BACK DETAIL.
- DISTANCES F_x AND F_y REFER TO THE OVERALL FOUNDATION BREADTH OR LENGTH, RESPECTIVELY. DIMENSIONS SHOWN INCLUDE BOTH THE FOUNDATION WALL AND PEDESTAL, AS APPLICABLE.
- BTM = BOTTOM. TRANS = TRANSVERSE. LONG = LONGITUDINAL. T&B = TOP AND BOTTOM. CNTR = CENTER. EW = EACH WAY. CONT = CONTINUOUS. B = BREADTH. L = LENGTH.



1 Pedestal & Footing Schedule
3/4" = 1'-0"



New Construction and Renovation Work For:

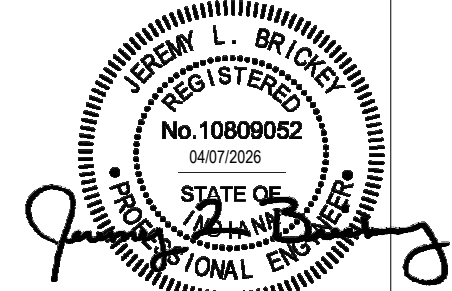
**C.20.10211 PFW West Campus
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**PURDUE
UNIVERSITY
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MARTIN RILEY
architects-engineers

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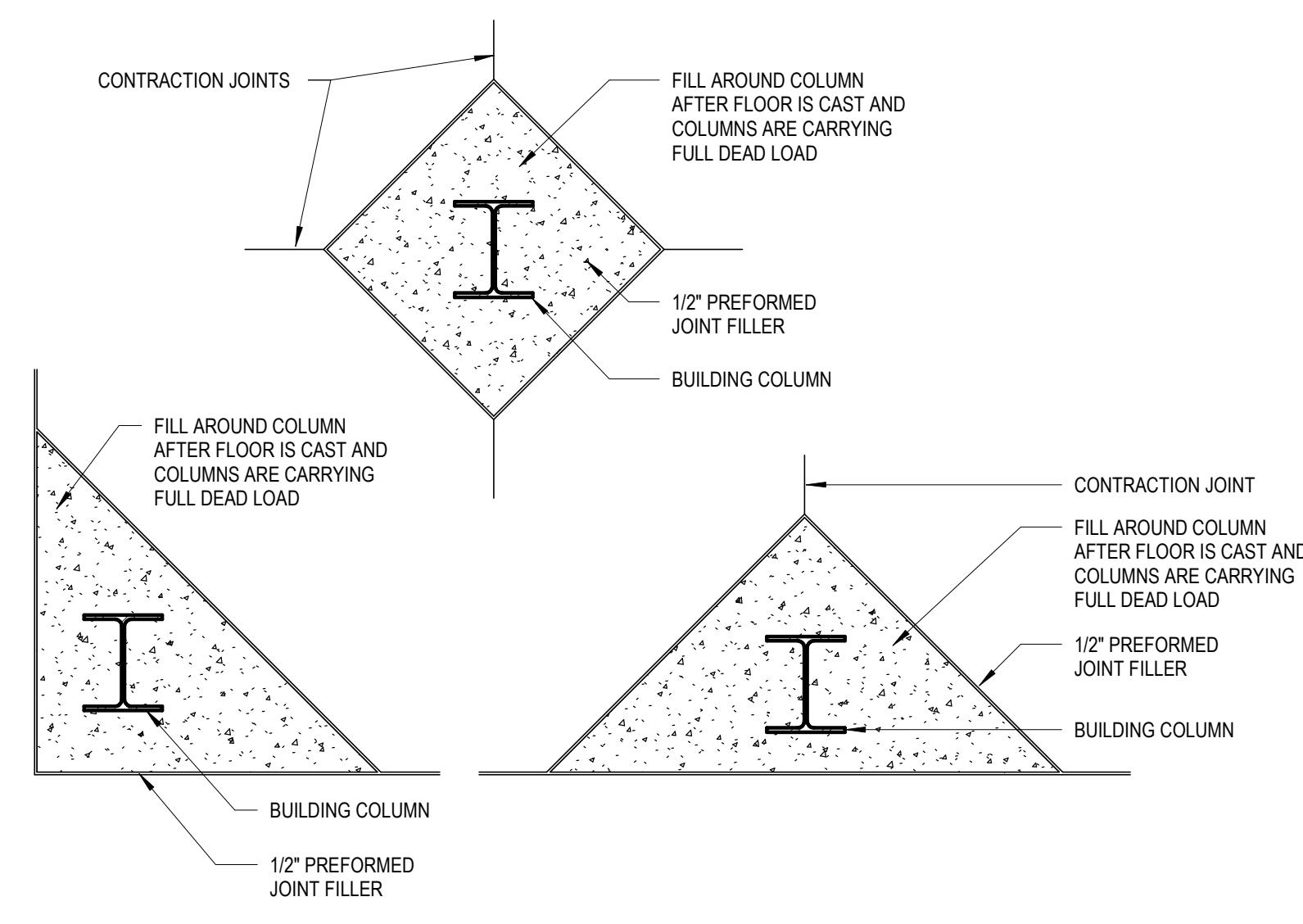
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REVIEWED BY: JLB
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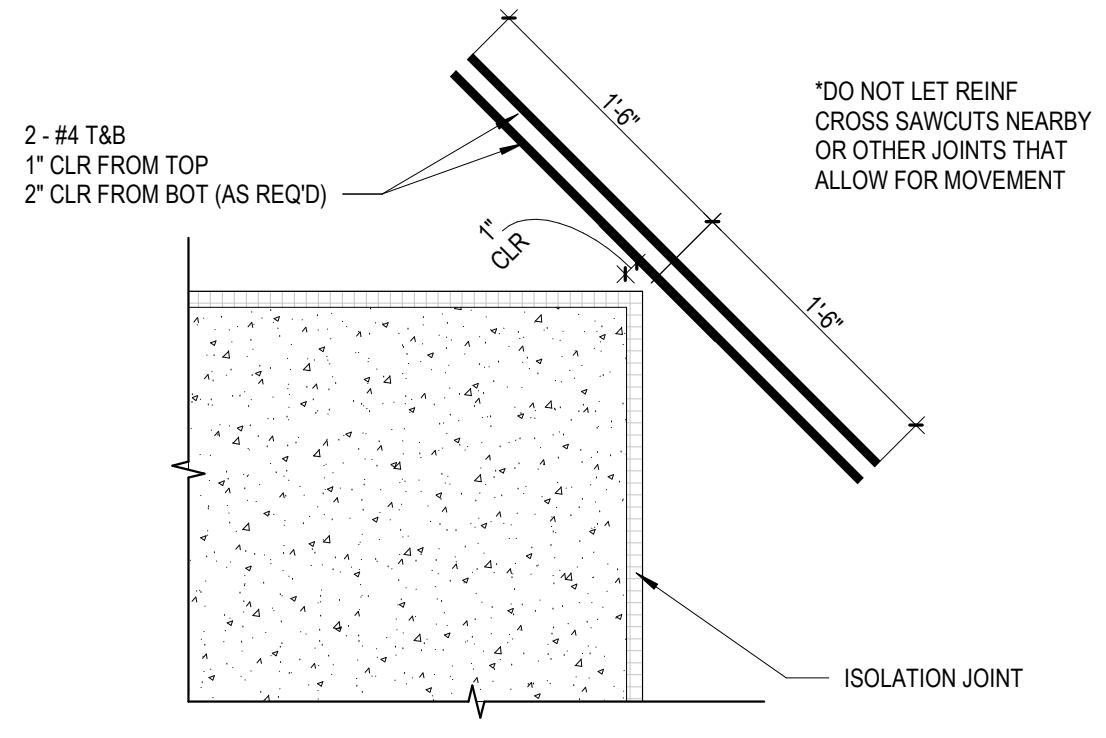
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FOUNDATION DETAILS

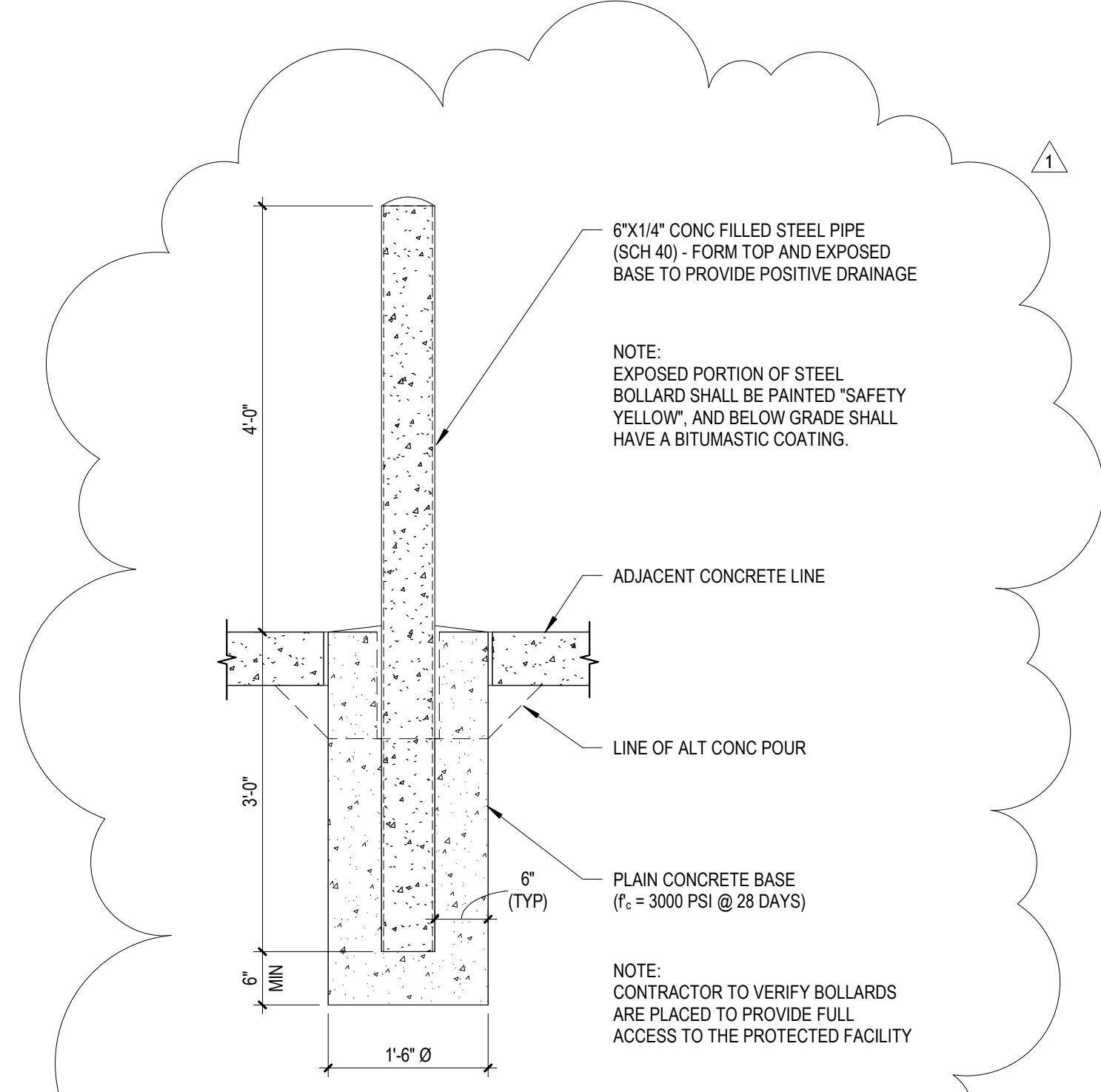
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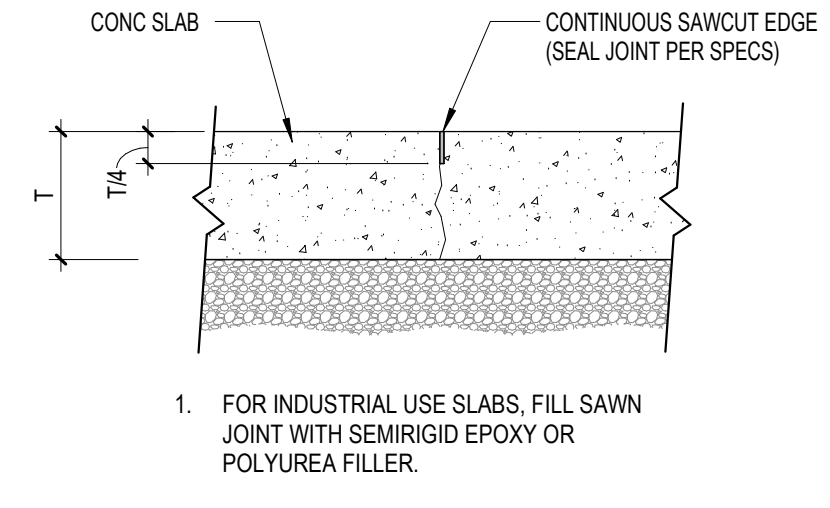
8 Typical Column Isolation Joints
 3/4" = 1'-0"



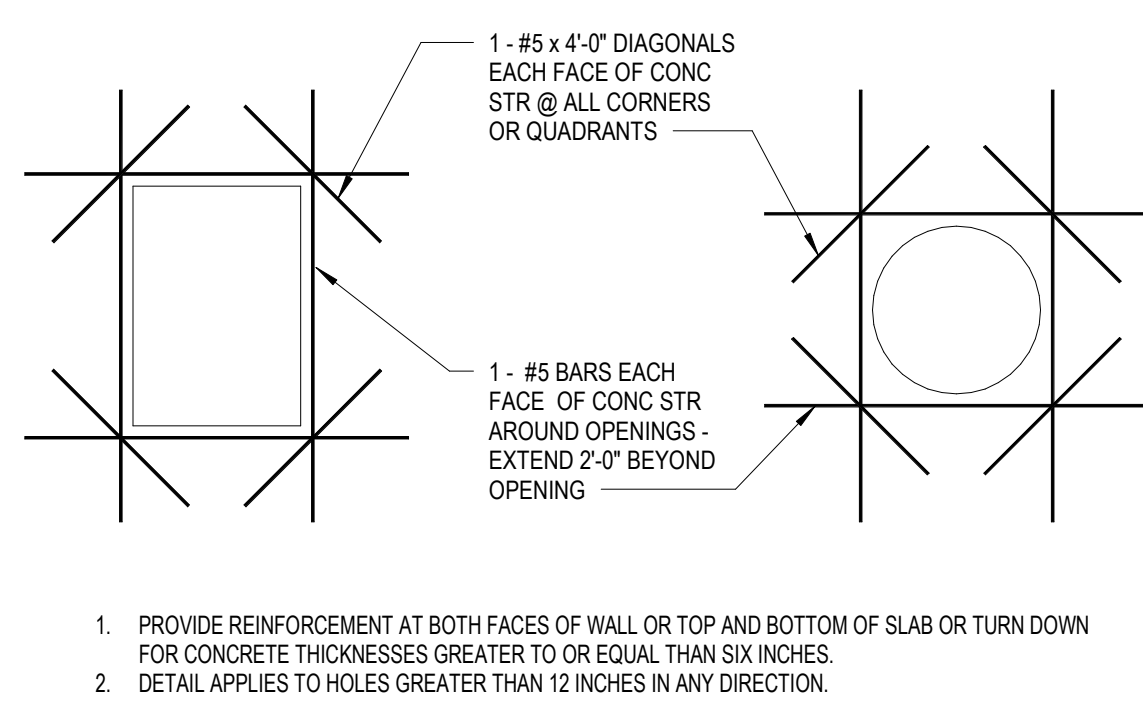
7 Slab Reinforcement at Reentrant Corner
 1" = 1'-0"



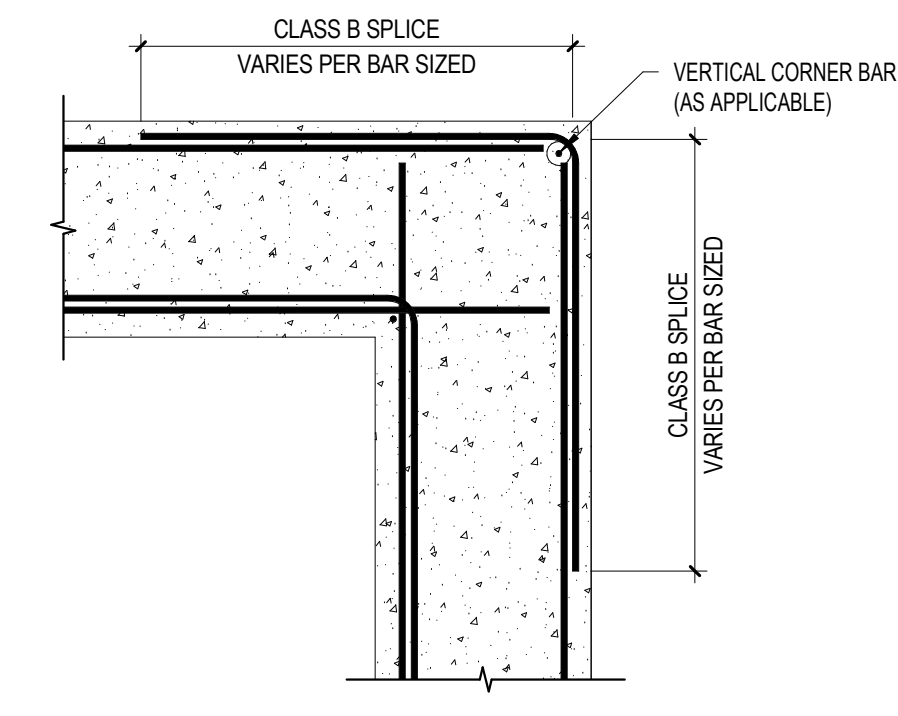
10 Typical Bollard
 3/4" = 1'-0"



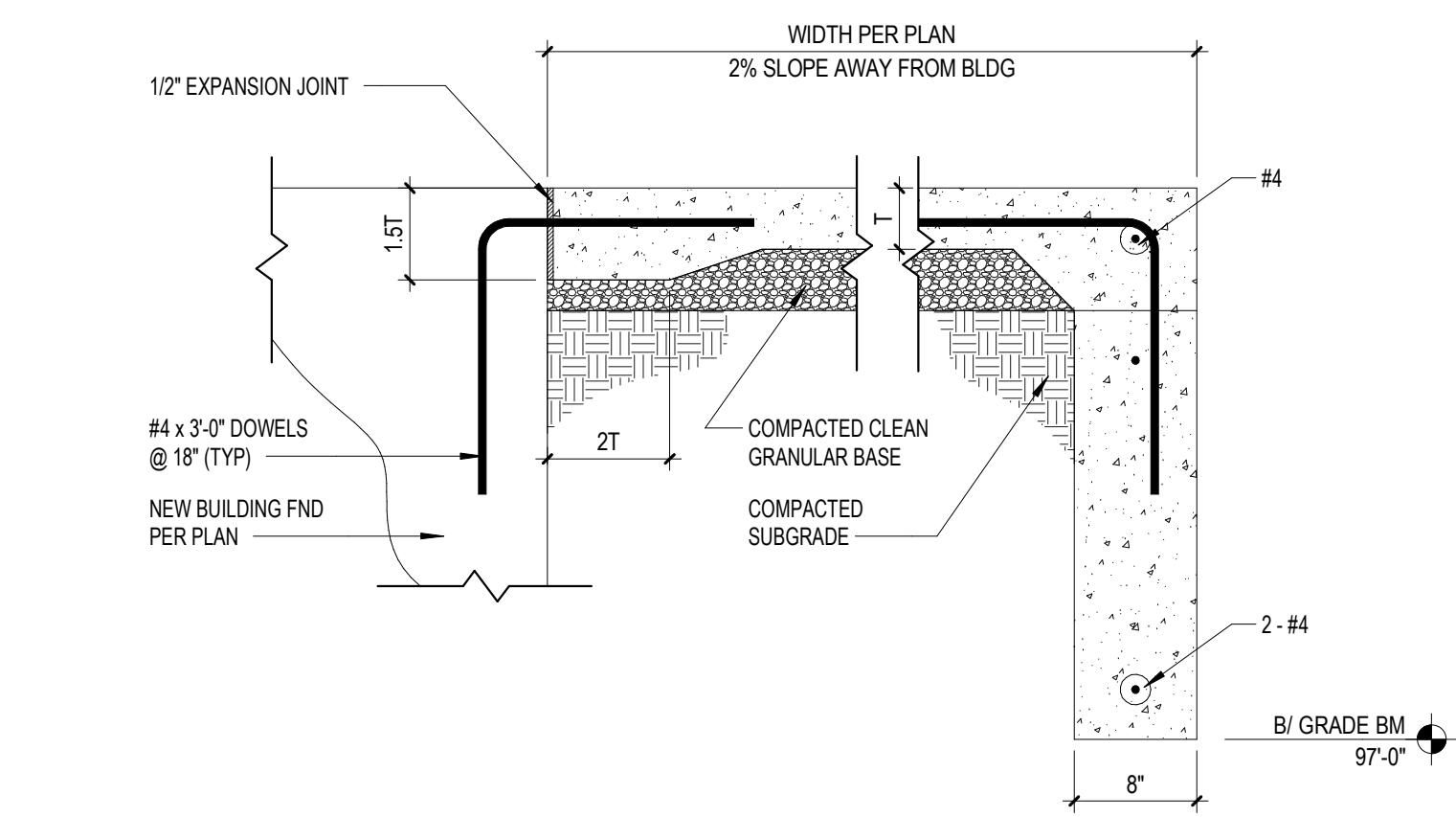
9 Typical Sawcut Contraction Joint
 1" = 1'-0"



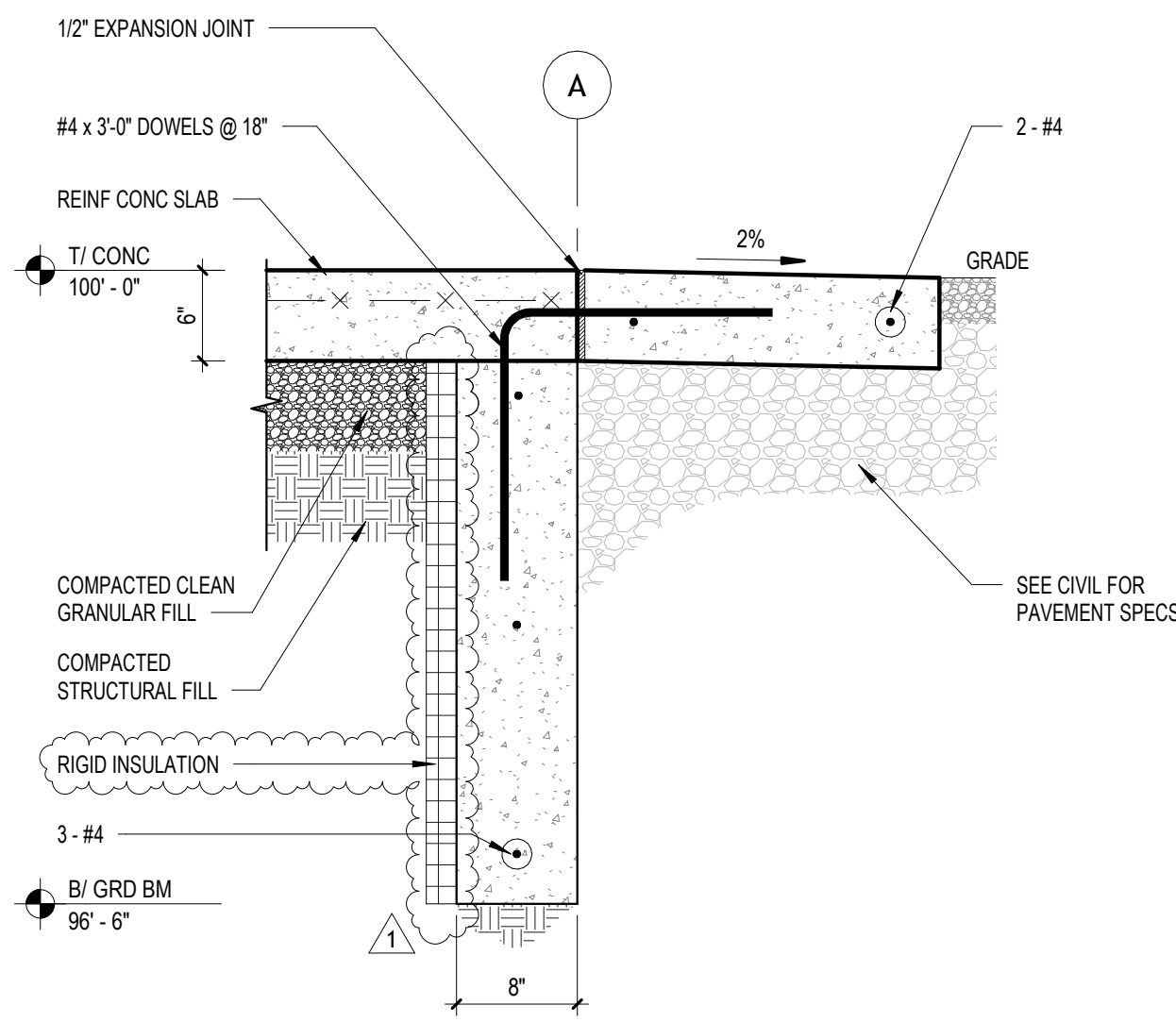
6 Typical Concrete Penetrations Reinforcement
 1/4" = 1'-0"



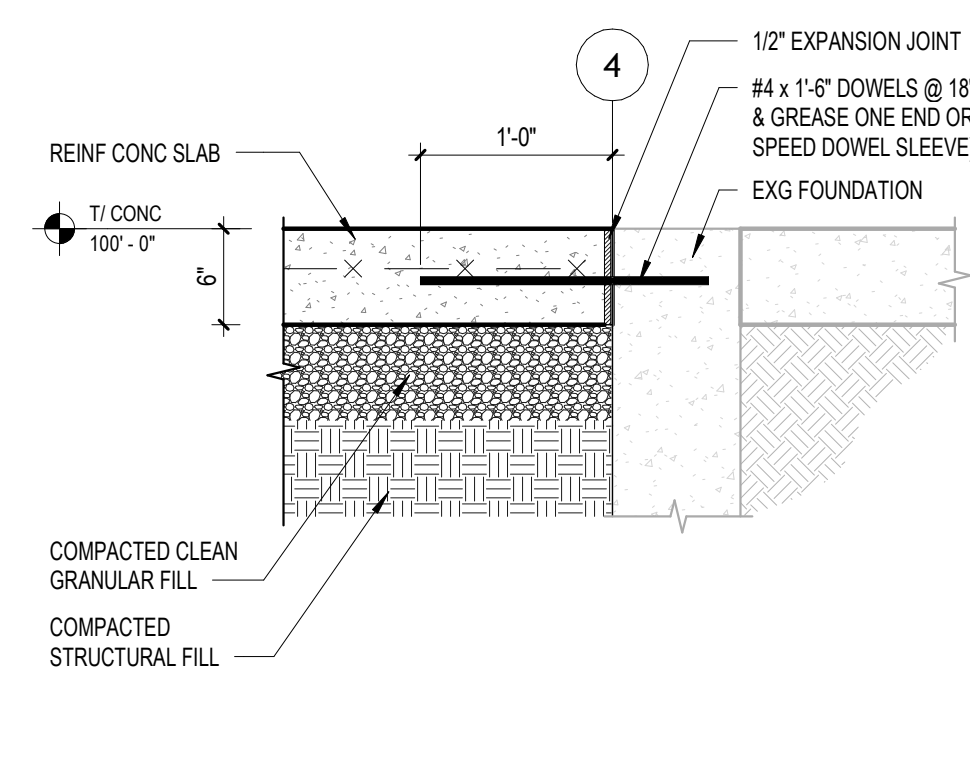
5 Typical Concrete Corner Reinforcement
 3/4" = 1'-0"



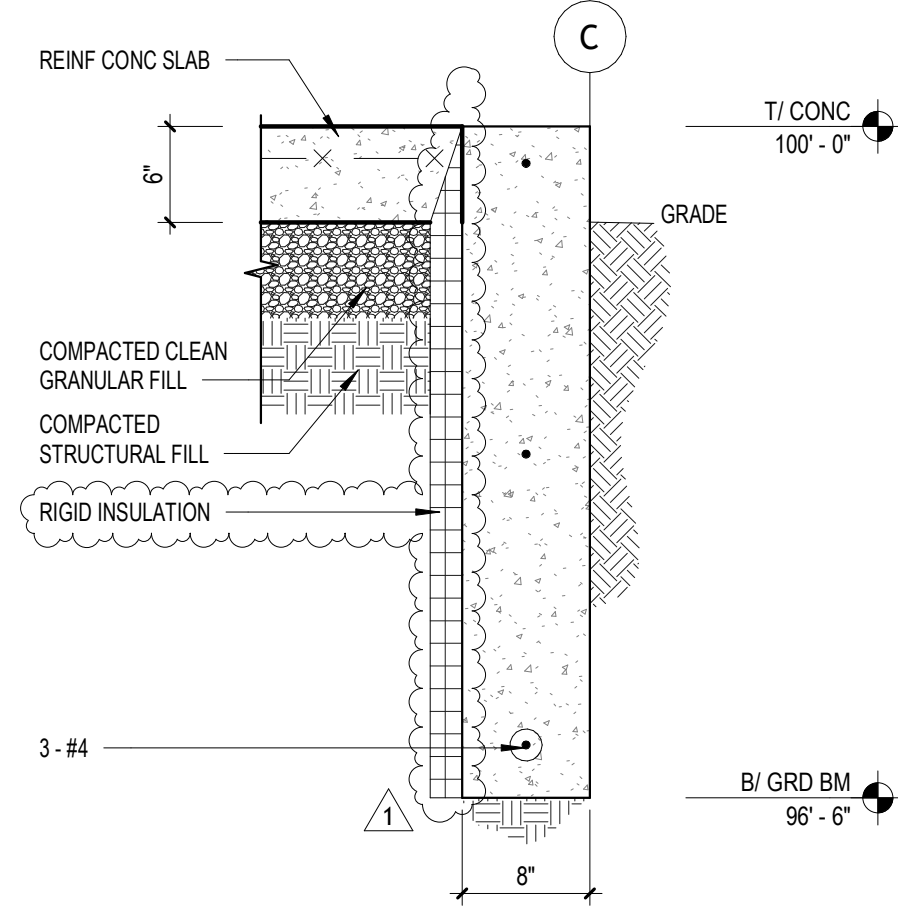
4 Typical Stoop
 1" = 1'-0"



3 Foundation/Apron at Overhead Doors
 1" = 1'-0"



2 Slab Addition Construction Joint
 1" = 1'-0"



1 Typical Grade Beam
 1" = 1'-0"

New Construction and Renovation Work For:
**C.20.10211 PFW West Campus
 Maintenance Building Addition - 2026**
 2101 E. Coliseum Blvd.
 Fort Wayne, IN 46805-1499

**PURDUE
 UNIVERSITY**
FORT WAYNE

MARTIN RILEY
 architects-engineers

221 West Baker Street
 Fort Wayne, Indiana 46802
 pho 260.422.7994
 fax 260.426.2067



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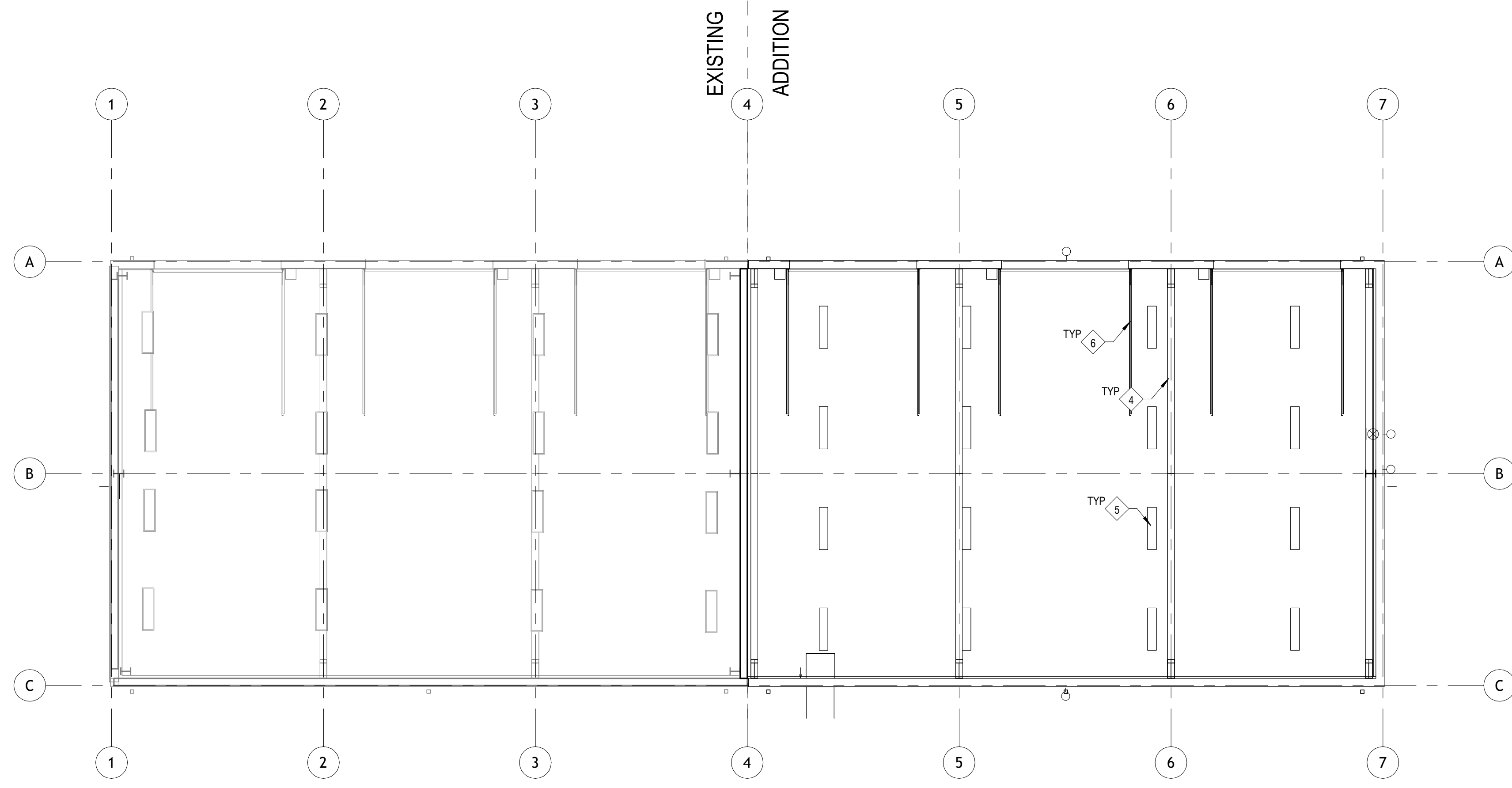
REVISION	DATE
1 Addendum 2	2026-04-09

DRAWN BY	REVIEWED BY
NMS	JLB

COMMISSION NUMBER	DATE
F25111	2026-03-13

S402

FOUNDATION DETAILS



Reflected Ceiling Plan Legend

	SUPPLY AIR		RETURN AIR
	EXHAUST		RECESSED/CEILING MOUNTED DOWNLIGHT
	EXIT LIGHT FIXTURE		SUSPENDED LINEAR FIXTURE

- General Notes**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL OR OTHER GOVERNING BODIES' CODES. ADDITIONALLY, WORK SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE INDUSTRY STANDARDS OR GUIDELINES.
 - ALL DIMENSIONS ARE TO THE FACE OF MASONRY, FACE OF EXISTING WALL AND/OR FACE OF NEW FRAMING UNLESS NOTED OTHERWISE.
 - INDICATED DIMENSIONS ARE TAKEN FROM CASUAL FIELD OBSERVATIONS AND EXISTING DRAWINGS. GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES. ALL CHANGES TO THE WORK SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO PROCEEDING.
 - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CONSTRUCTION EFFORTS OF ALL SUB-CONTRACTORS. FAILURE TO ANTICIPATE CHANGES OR MODIFICATIONS SHALL NOT BE THE BASIS FOR ADDITIONAL COST REQUESTS.
 - REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
 - CONTRACTOR TO PROVIDE EITHER 2x WOOD BLOCKING IN-FILL OR METAL BACKING PLATES FOR THE SUPPORT OF ALL WALL MOUNTED EQUIPMENT INCLUDING CABINETS, TOILET ACCESSORIES, ETC. AS REQUIRED TO ALLOW FOR PROPER ATTACHMENT. CONTRACTOR TO FIELD VERIFY THE SCOPE OF WORK.

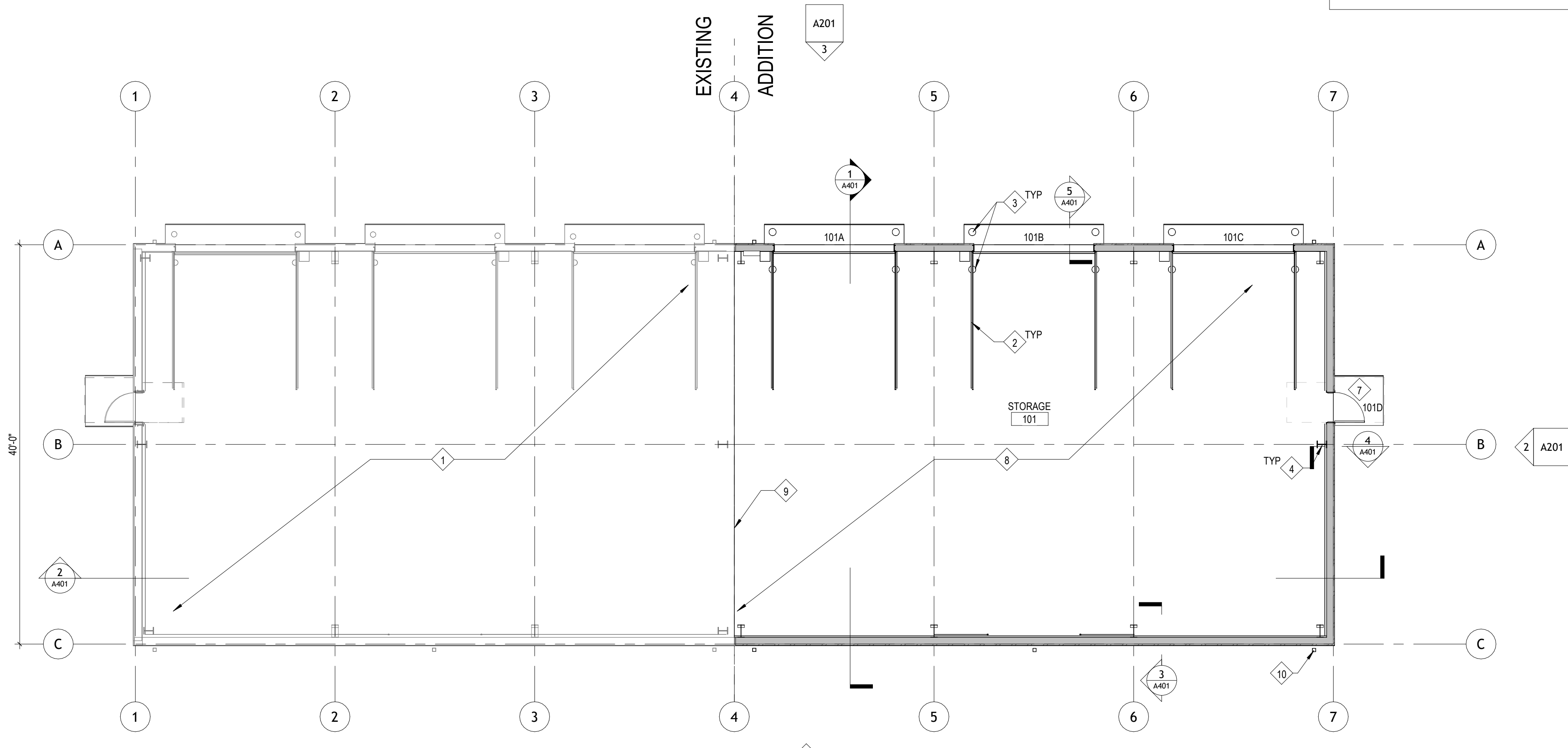
- Work Description Notes**
- EXISTING TO REMAIN
 - DOOR TRACK ABOVE
 - PROVIDE PIPE BOLLARDS AT EXTERIOR AND INTERIOR OF OVERHEAD DOORS. REFER TO STRUCTURAL.
 - PRE-ENGINEERED METAL BUILDING (PEMB) STRUCTURE BY OTHERS.
 - LIGHT FIXTURE. REFER TO ELECTRICAL.
 - CONTRACTOR TO COORDINATE HEIGHT AND ANGLE OF OVERHEAD DOOR TRACKS TO AVOID CONFLICT
 - CONCRETE STOOP. REFER TO STRUCTURAL
 - NEW CONCRETE SLAB. REFER TO STRUCTURAL
 - 1/2" EXPANSION JOINT. REFER TO STRUCTURAL
 - 4" x 6" PRE-FINISHED METAL DOWNSPOUT TYP. TURN OUT ON PRECAST SPLASH BLOCK

2 Reflected Ceiling Plan
1/8" = 1'-0"

Room Schedule

Room Number	Room Name	Floor Finish	Base Finish	Wall Finish				Ceiling Finish	Comments
				North	South	East	West		
101	STORAGE	CONC-1	PEMB	LINER PANEL	N/A	LINER PANEL	LINER PANEL	EXPOSED	1

COMMENTS:
1. FINISHES TO MATCH EXISTING IN QUALITY, PERFORMANCE, AND APPEARANCE.



FINISH LEGEND

NOTE: ALL PRODUCTS ARE BASIS OF DESIGN. ALTERNATIVE PRODUCTS MAY BE SUBMITTED FOR CONSIDERATION AND APPROVAL.

A. CEILING
1. EXPOSED STRUCTURE AND VAPOR RETARDER.

B. BASE
1. BASE, PEMB MANUFACTURER TO PROVIDE, TO MATCH EXISTING PORTION.

M. MISCELLANEOUS
1. SEALED CONCRETE, ASHFORD FORMULA, CLEAR
2. LINER PANEL, PEMB MANUFACTURER TO PROVIDE, TO MATCH EXISTING PORTION.

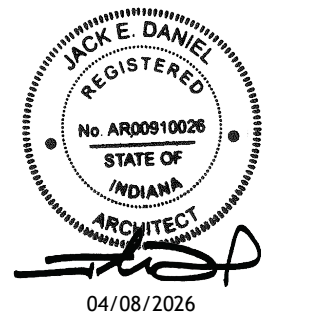
PT. PAINT
1. METAL FRAMING: SHERWIN WILLIAMS (1) COAT PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER (2) COATS PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY
a. COLOR: TO MATCH EXISTING
b. FINISH: TO MATCH EXISTING
2. H.M. DOOR FRAME: SHERWIN WILLIAMS (1) COAT PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER (2) COATS PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY
NOTE: PAINT FRAME AS NEEDED FROM DEMOLITION/SALVAGE/REINSTALLATION PROCESS
a. COLOR: TO MATCH EXISTING
b. FINISH: TO MATCH EXISTING

1 First Floor
1/8" = 1'-0"

New Construction and Renovation Work For:
**C.20.10211 PFW West Campus
Maintenance Building Addition - 2026**
2101 E. Coliseum Blvd.
Fort Wayne, IN 46805



221 West Baker Street
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REVISION

REVISION	DATE
1 Addendum 2	2026-04-09

DRAWN BY: PJ
COMMISSION NUMBER: F25111
REVIEWED BY: JEF
DATE: 2026-03-13

A101

FLOOR PLAN

F25111 - C.20.10211 PFW West
Campus Maintenance Building Addition -
20260208 12:52:39 PM
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SDDDCD

Door & Frame Schedule													
Door Number	Leaf Count	Material	Elevation	Door			Frame		Door Head	Door Jamb	Door Sill	Hardware	Remarks
				Width	Height	Thickness	Material	Elevation					
101A		STL	OHD	12'-0"	12'-0"	0'-2"	STL	-	5/A201	4/A201	-	-	1
101B		STL	OHD	12'-0"	12'-0"	0'-2"	STL	-	5/A201	4/A201	-	-	1
101C		STL	OHD	12'-0"	12'-0"	0'-2"	STL	-	5/A201	4/A201	-	-	1
101D	1	WD	F	3'-0"	7'-0"	0'-1 3/4"	HM	1	7/A201	6/A201	8/A201	1	2

REMARKS

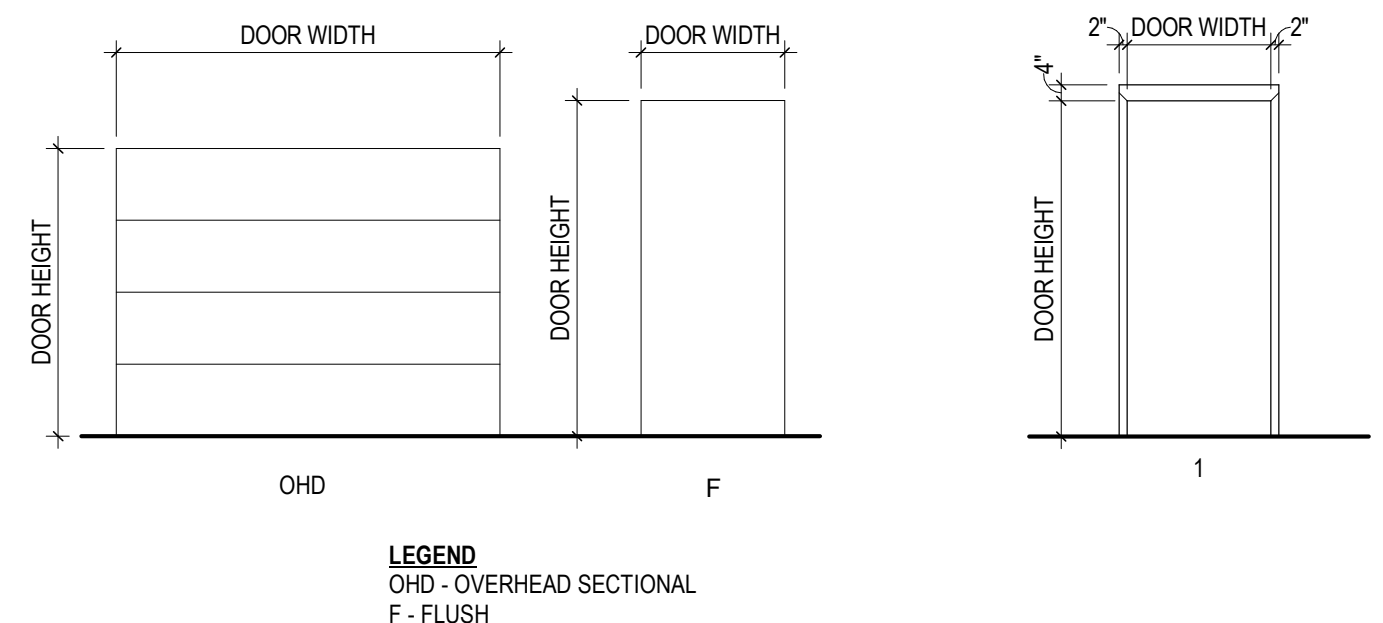
- BASIS OF DESIGN TO MATCH EXISTING DOORS
- EXISTING DOOR REINSTALLED IN NEW WALL. REPAIR AS NEEDED.

GENERAL NOTES

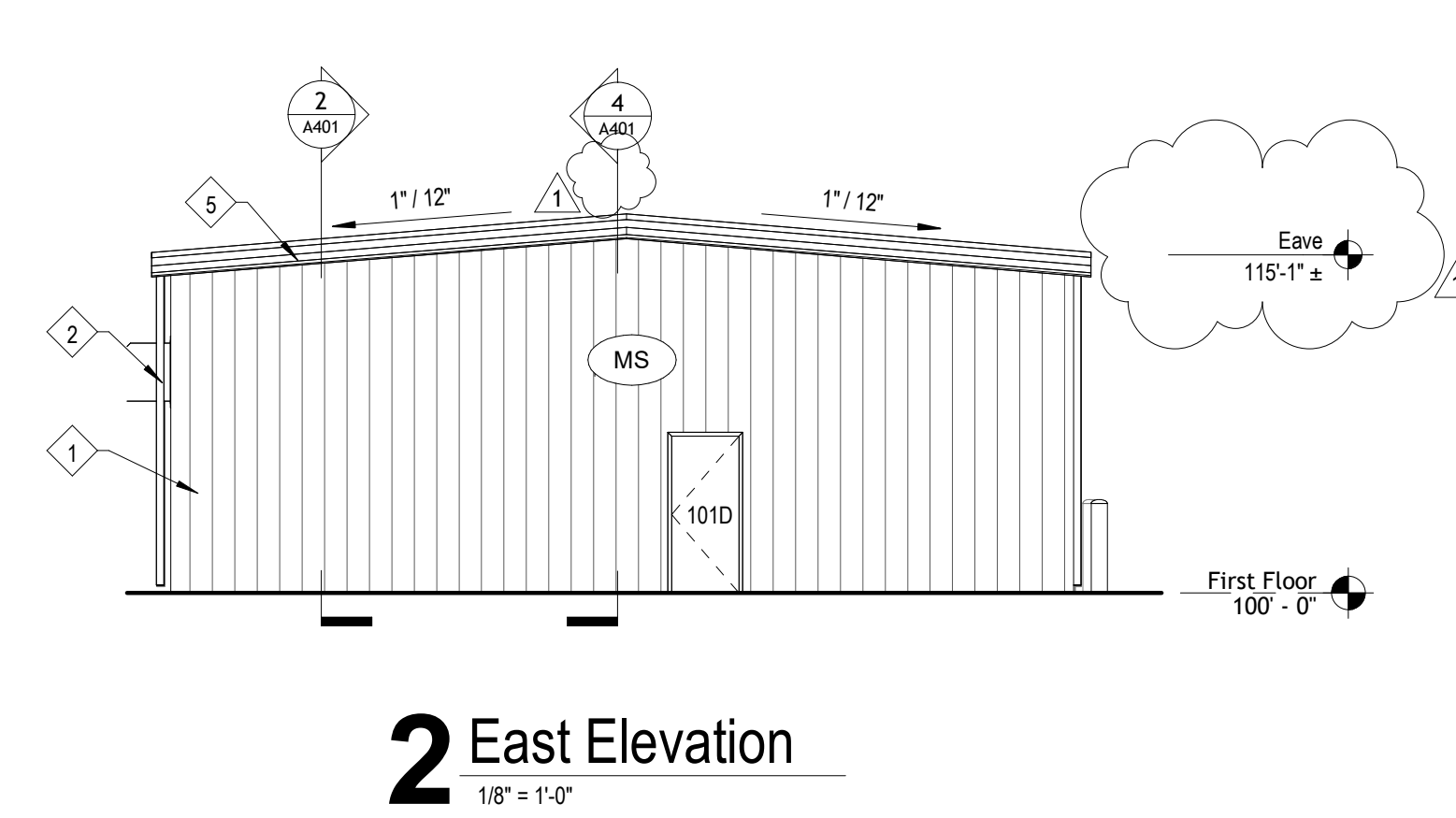
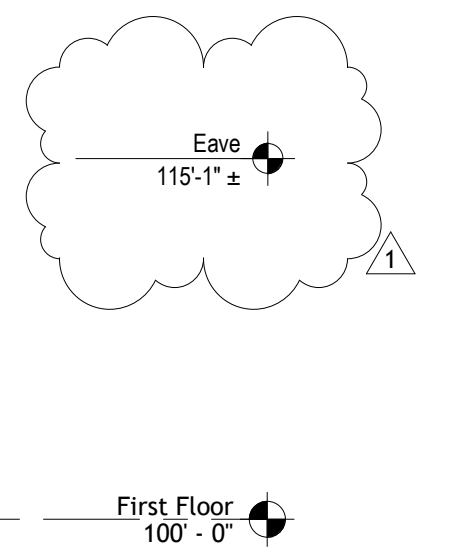
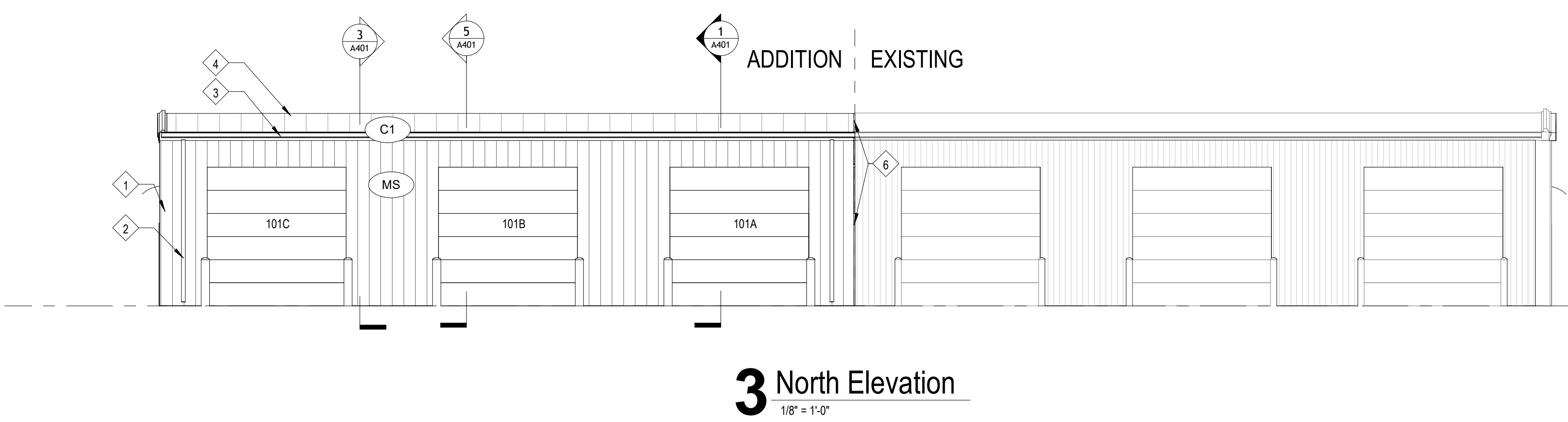
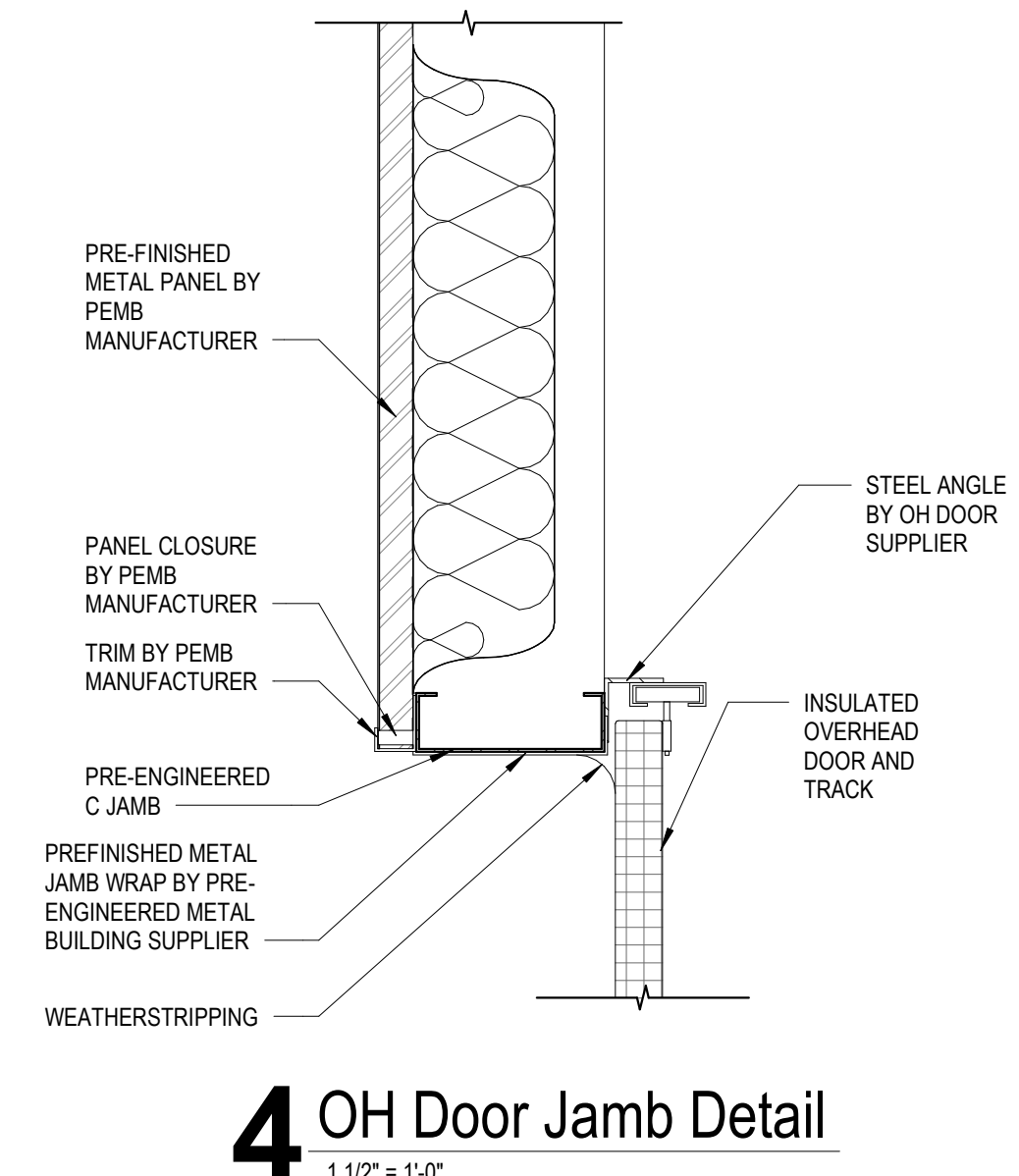
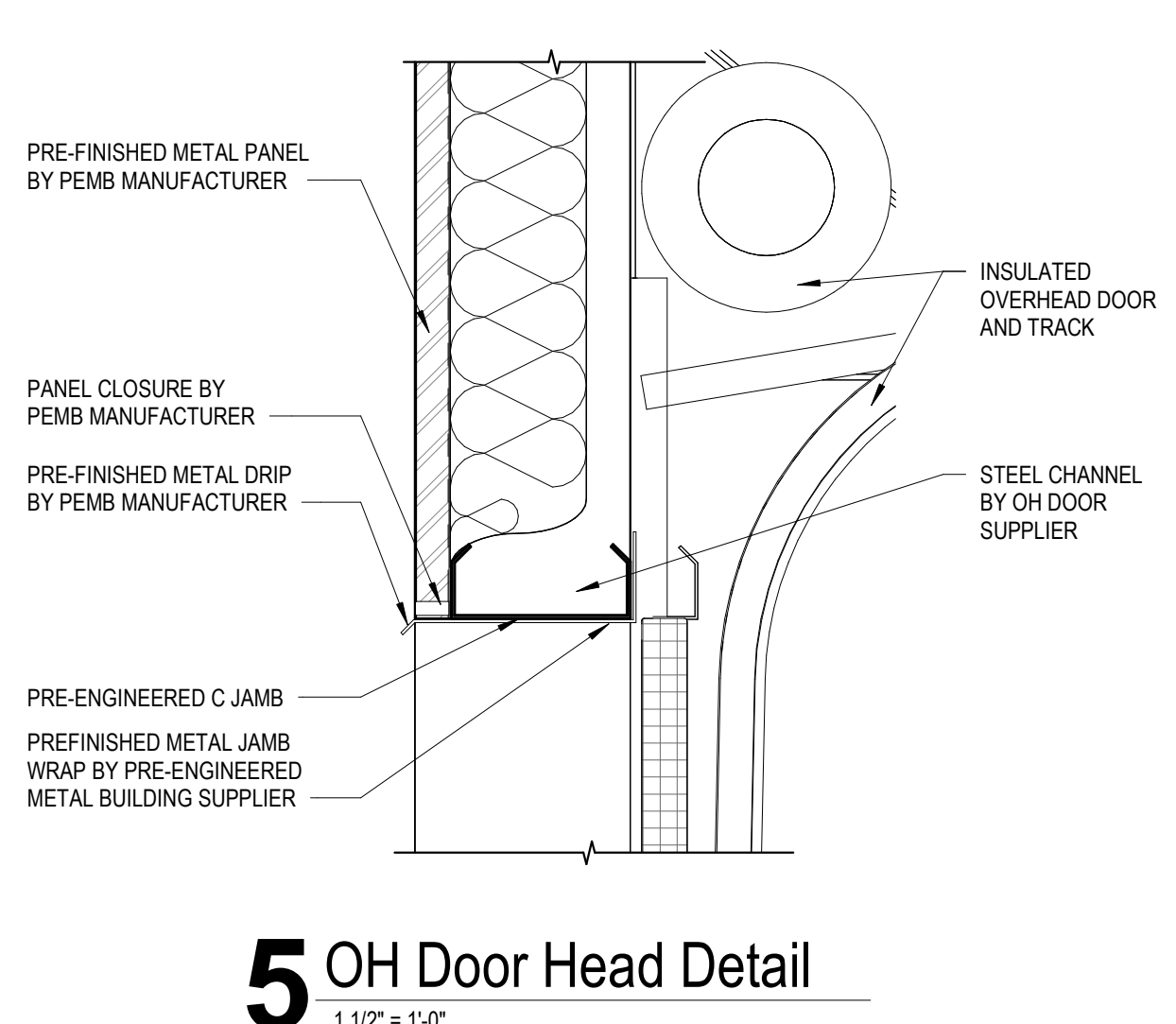
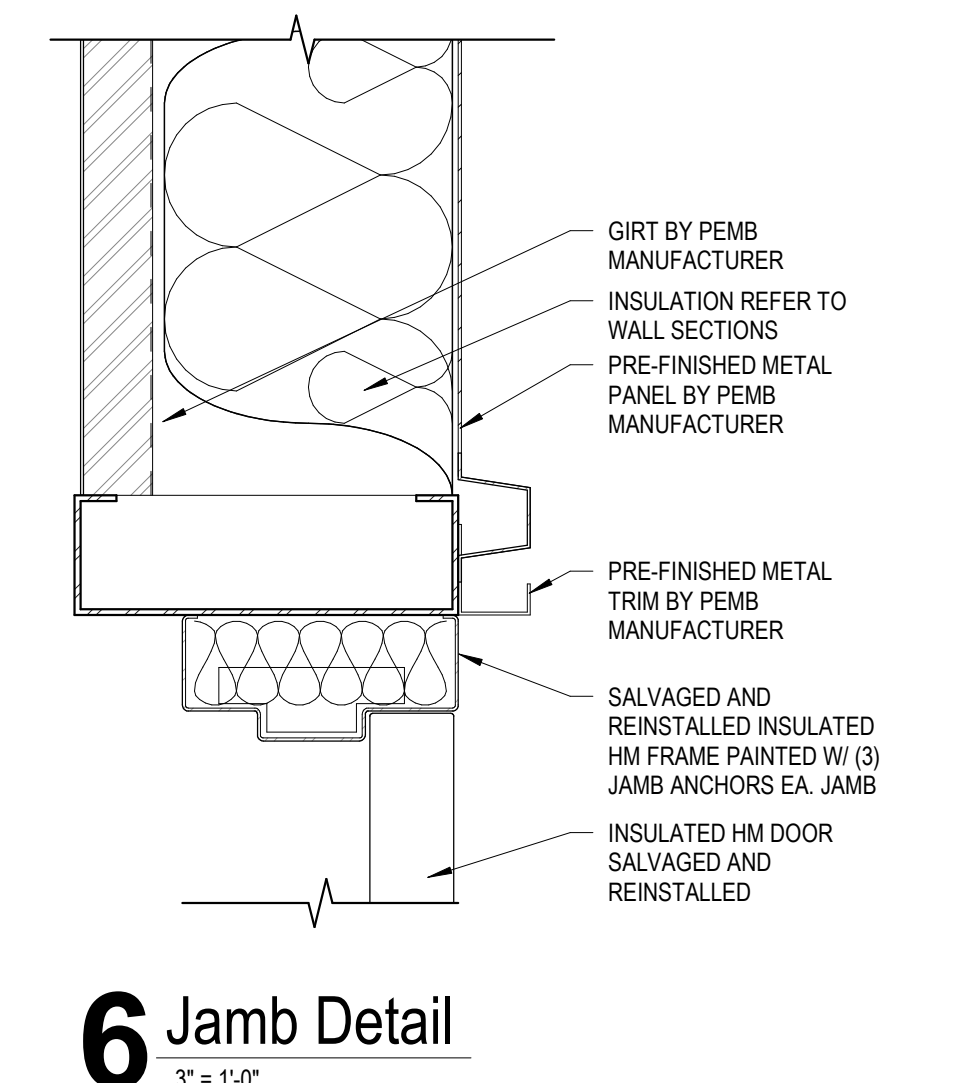
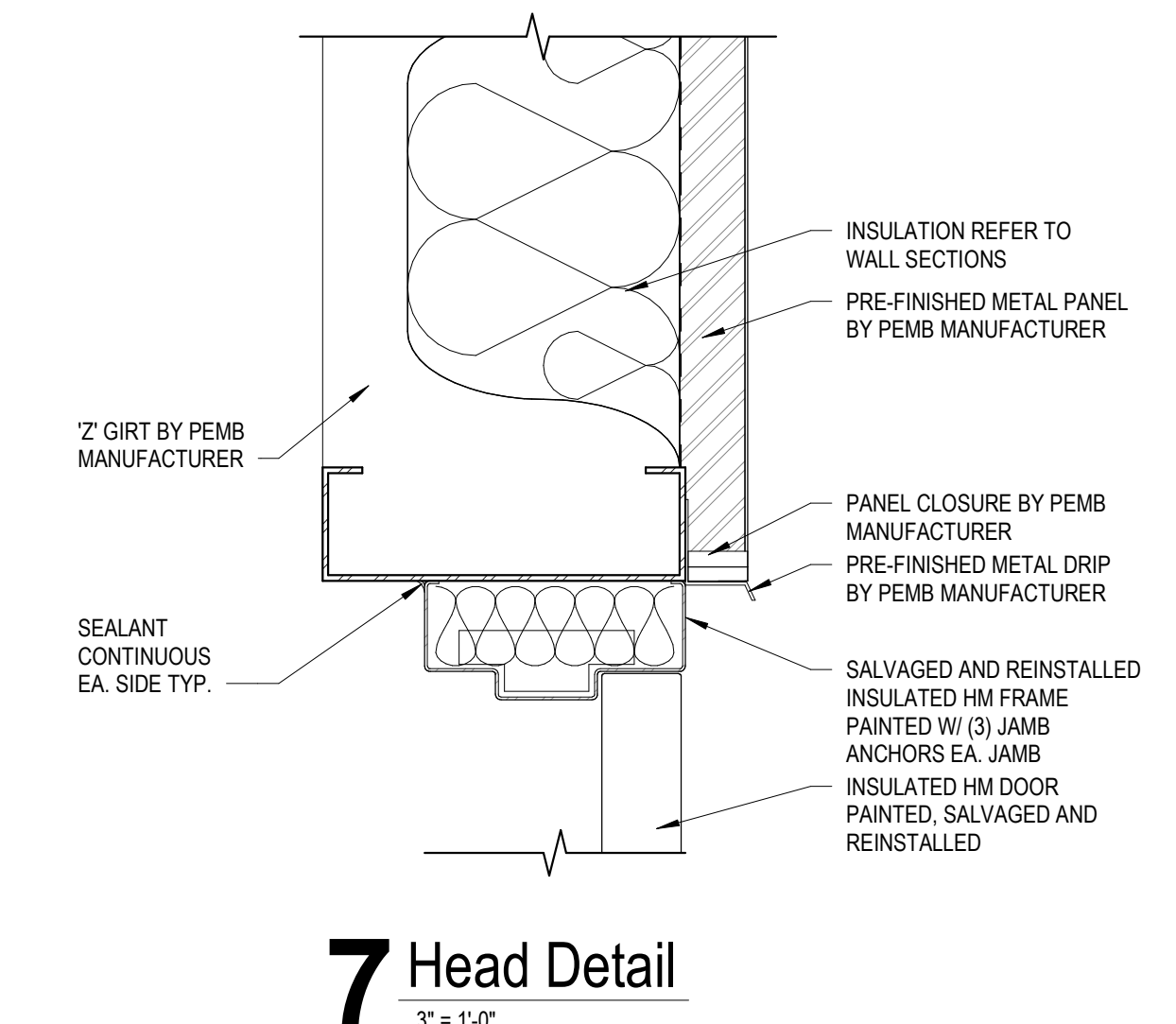
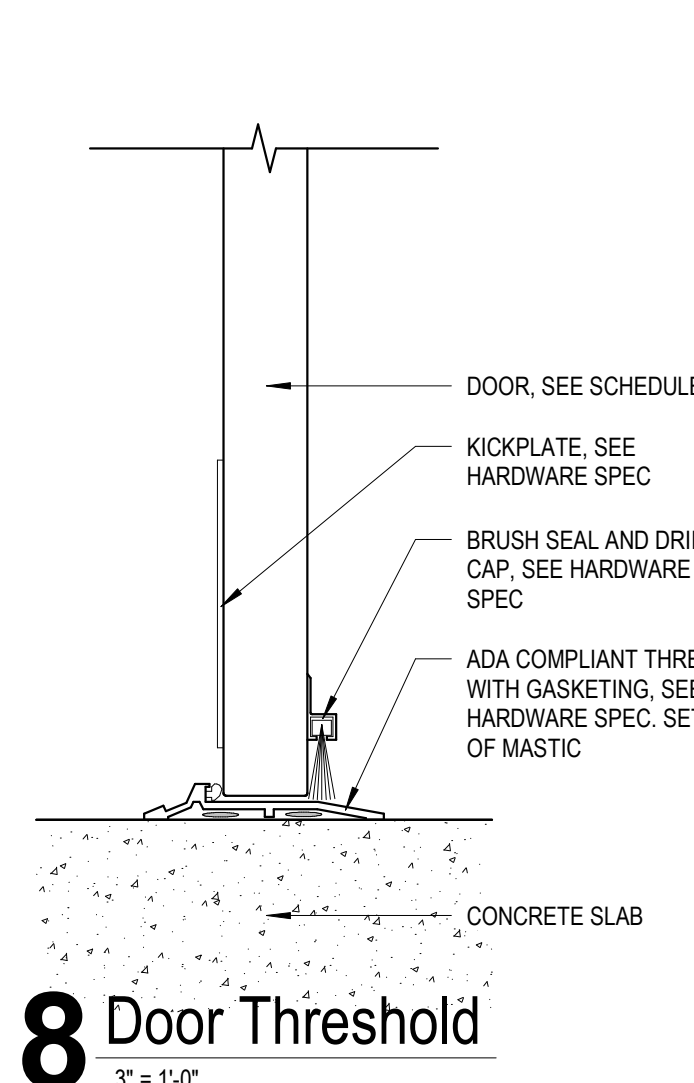
- PAINT HOLLOW METAL DOOR, FRAMES AND HOLLOW METAL WINDOW FRAMES IN ALL ROOMS WHERE WORK IS BEING PERFORMED
- PROVIDE SEALANT BETWEEN DOOR FRAMES AND ADJACENT SURFACE, PAINT OR COLOR TO MATCH
- FIELD VERIFY ALL EXISTING CONDITIONS
- PROVIDE STEEL LINTELS AND INFILL MASONRY AS REQUIRED FOR NEW OPENINGS AND OPENING MODIFICATIONS, SEE STRUCTURAL
- PROVIDE DOOR SILENCERS AT NEW AND EXISTING DOOR LOCATIONS SCHEDULED
- FILL AND SAND ANY HOLES IN HOLLOW METAL DOORS AND FRAMES
- PROVIDE BLANK TRIMS FOR DOORS AS REQUIRED
- PROVIDE DOOR SIGNAGE IN AREAS OF WORK. REFER TO DETAILS AND FINISH SCHEDULE
- ALL WOOD DOORS TO BE SOLID CORE. ALL METAL DOORS BETWEEN SPACES WITH A TEMPERATURE DELTA GREATER THAN 10°F TO BE INSULATED
- REFER TO FP001 CLEAN AGENT FIRE PROTECTION NOTES FOR WORK SCOPE AT DOORS PROVIDING ACCESS TO SEALED ROOMS

HARDWARE

- HARDWARE FROM EXISTING DOOR TO BE SALVAGED AND REUSED AT NEW OPENING LOCATION. REPAIR AND REPLACE COMPONENTS IF NEEDED.



- ◇ Work Description Notes
- PRE-FINISHED CORNER TRIM, TYP.
 - 4" x 6" PRE-FINISHED METAL DOWNSPOUT TYP. TURN OUT ON PRECAST SPLASH BLOCK
 - 6" x 6" PRE-FINISHED METAL GUTTER
 - 24 GA. STANDING SEAM PRE-FINISHED METAL ROOFING
 - PRE FINISHED RAKE TRIM, TYP.
 - PROVIDE MANUFACTURER'S STANDARD EXPANSION JOINT, DETAILS, AND FLASHING AT CONNECTION POINT BETWEEN NEW AND EXISTING WALL AND ROOF CONSTRUCTION
 - ALTERNATE: MECHANICAL VENTILATOR SYSTEM. REFER TO M101.

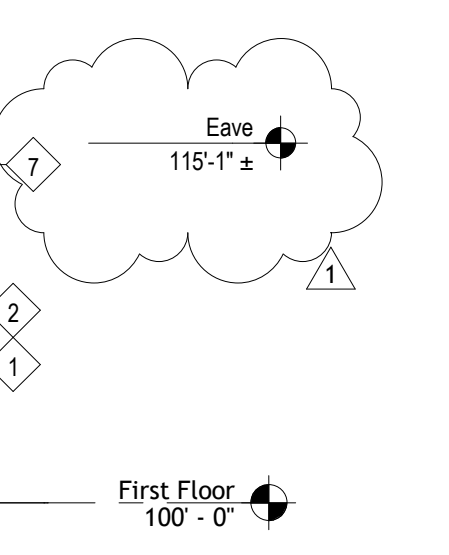
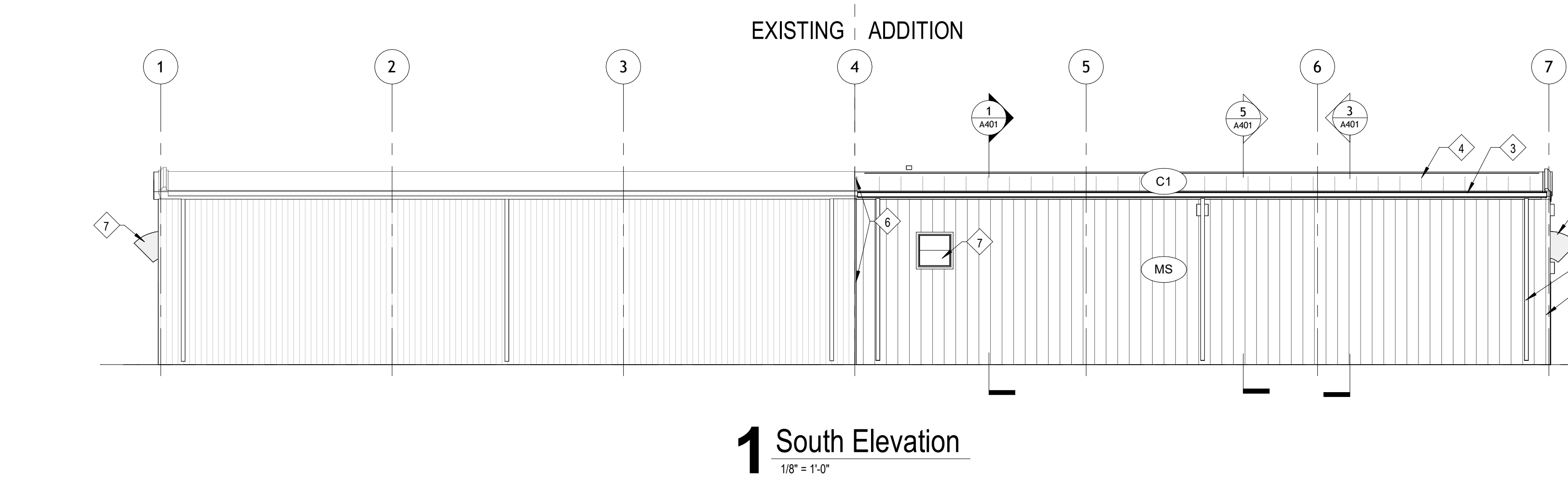


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MARTIN RILEY
architects+engineers

NEW E. DANIEL REGISTERED ARCHITECT
STATE OF INDIANA
No. AR00910208
04/08/2026

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Exterior Materials & Finish Schedule					
Mark	Spec. Section	Description	Finish Type & Color	Model/BOD	Comments
C1	07 6200	26 GA. PRE-FINISHED METAL FLASHING AND COPING	SELECTED FROM MANUFACTURER'S FULL RANGE OF COLORS TO MATCH EXISTING PORTION	NUCOR	1
MS	13 3419	26 GA. PRE-FINISHED METAL SIDING	SELECTED FROM MANUFACTURER'S FULL RANGE OF COLORS TO MATCH EXISTING PORTION	NUCOR	1

GENERAL NOTES:

- REFER TO SPECIFICATION SECTIONS LISTED FOR MORE INFORMATION ON INSTALLATION, ADDITIONAL NOTES, AND ACCESSORIES
- MANUFACTURERS LISTED ABOVE ARE BASIS OF DESIGN (BOD)
- REFER TO WALL SECTIONS AND DETAILS FOR SYSTEM COORDINATION AND TRANSITIONS
- INSTALL AS DEPICTED ON ELEVATIONS. REFER TO PLANS AND SECTIONS FOR DETAILS
- SUBMIT SAMPLES OR COLOR SELECTION GUIDE TO ARCHITECT FOR FINAL SELECTION

COMMENTS:

- COLOR, STYLE, THICKNESS, FINISH, AND OTHER PROPERTIES OF NEW MATERIAL TO MATCH EXISTING. ALL PRODUCTS ARE BASIS OF DESIGN, ALTERNATIVE PRODUCTS MAY BE SUBMITTED FOR CONSIDERATION AND APPROVAL.

REVISION	DATE
1	2026-04-09

DRAWN BY: PJ
COMMISSION NUMBER: F25111
REVIEWED BY: JEF
DATE: 2026-03-13

A201

BUILDING ELEVATIONS

New Construction and Renovation Work For:
C.20.10211 PFW West Campus
Maintenance Building Addition - 2026
 2101 E. Coliseum Blvd.
 Fort Wayne, IN 46805

PURDUE
UNIVERSITY
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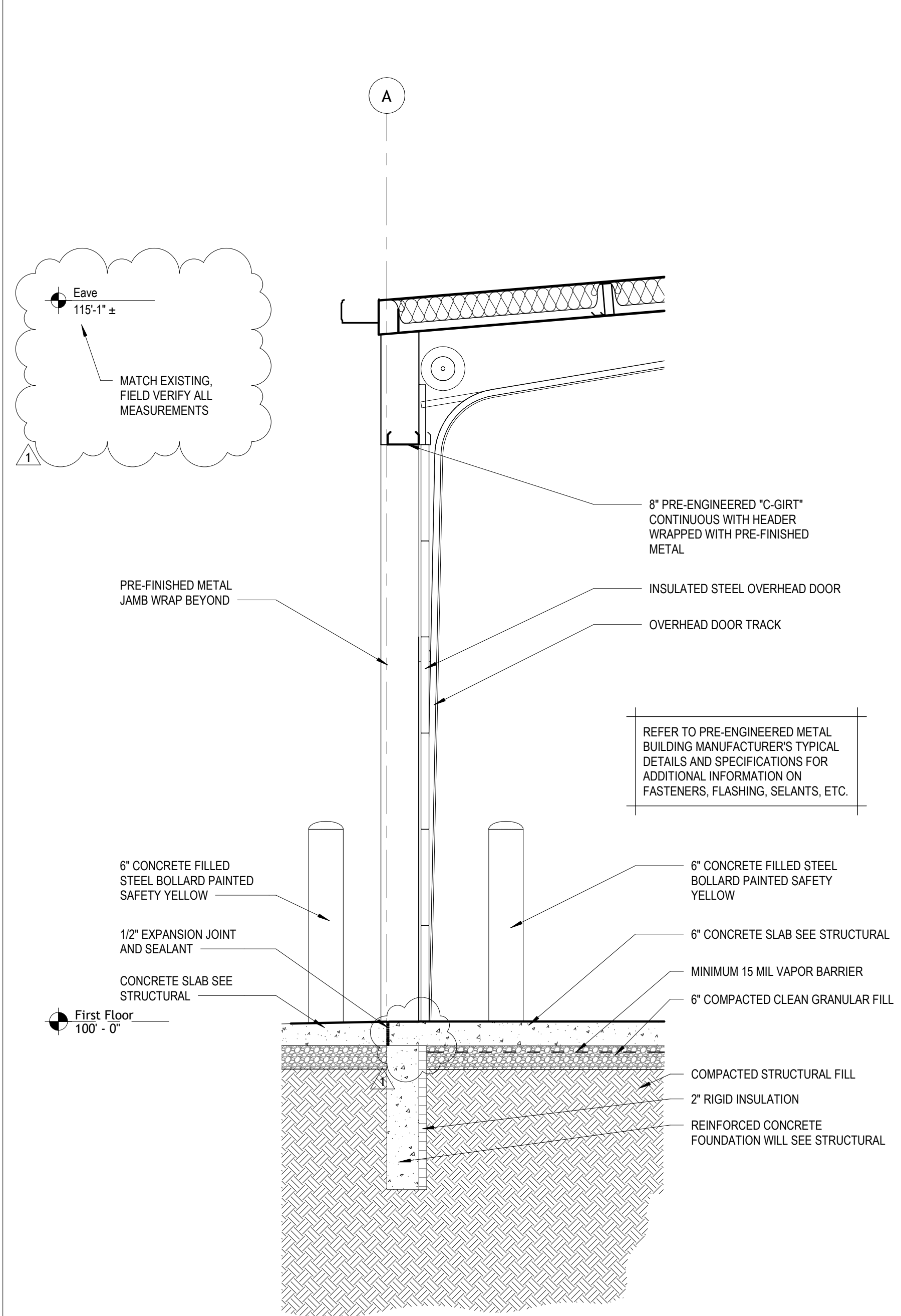


MARTIN RILEY
architects+engineers

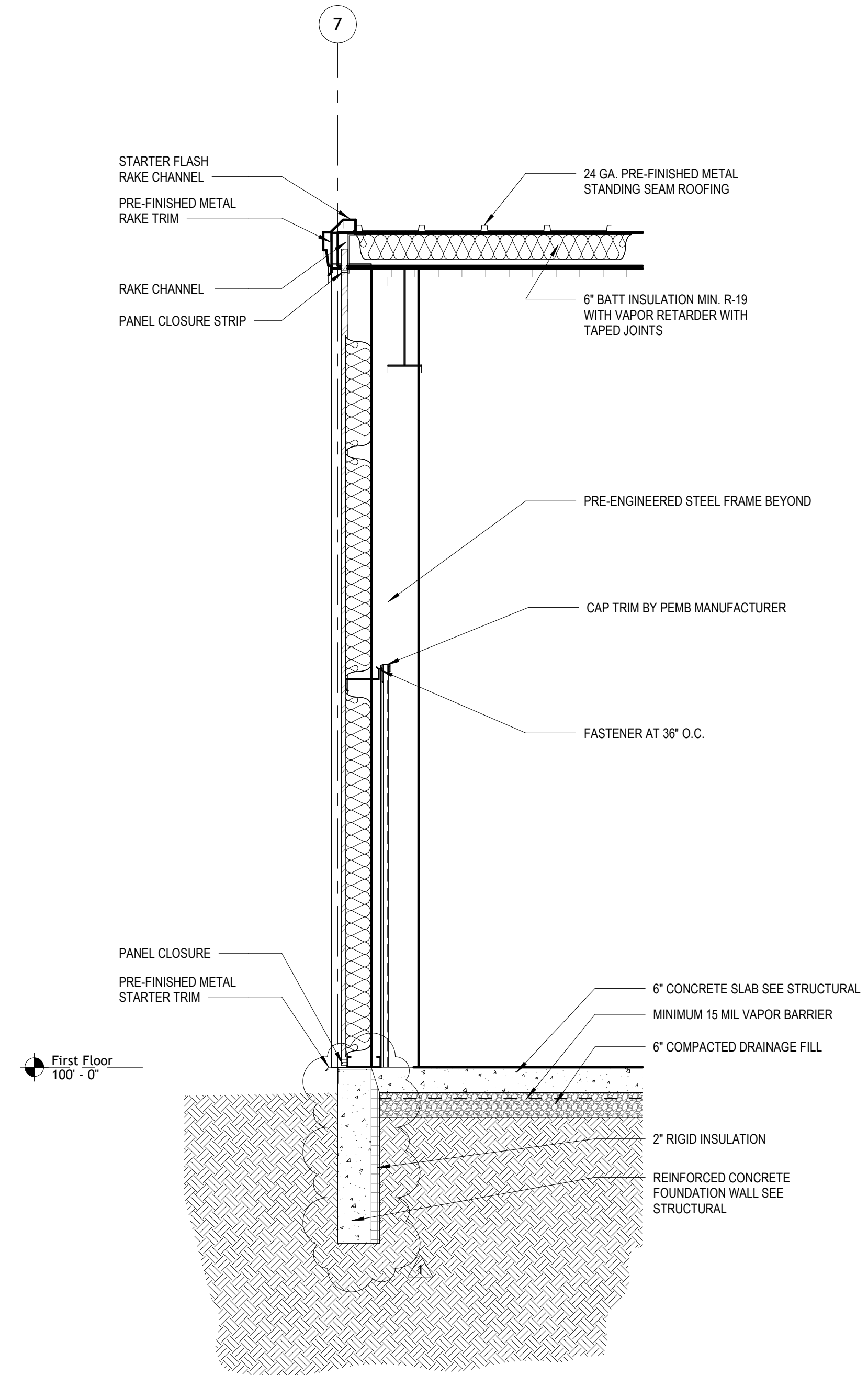
F25111 - C.20.10211 PFW West Campus Maintenance Building Addition - 2026-03-13 12:52:11 PM C:\Users\jfrank\OneDrive\F25111 - PFW W Main Add - ARCH - F25111.dwg

◆ Work Description Notes

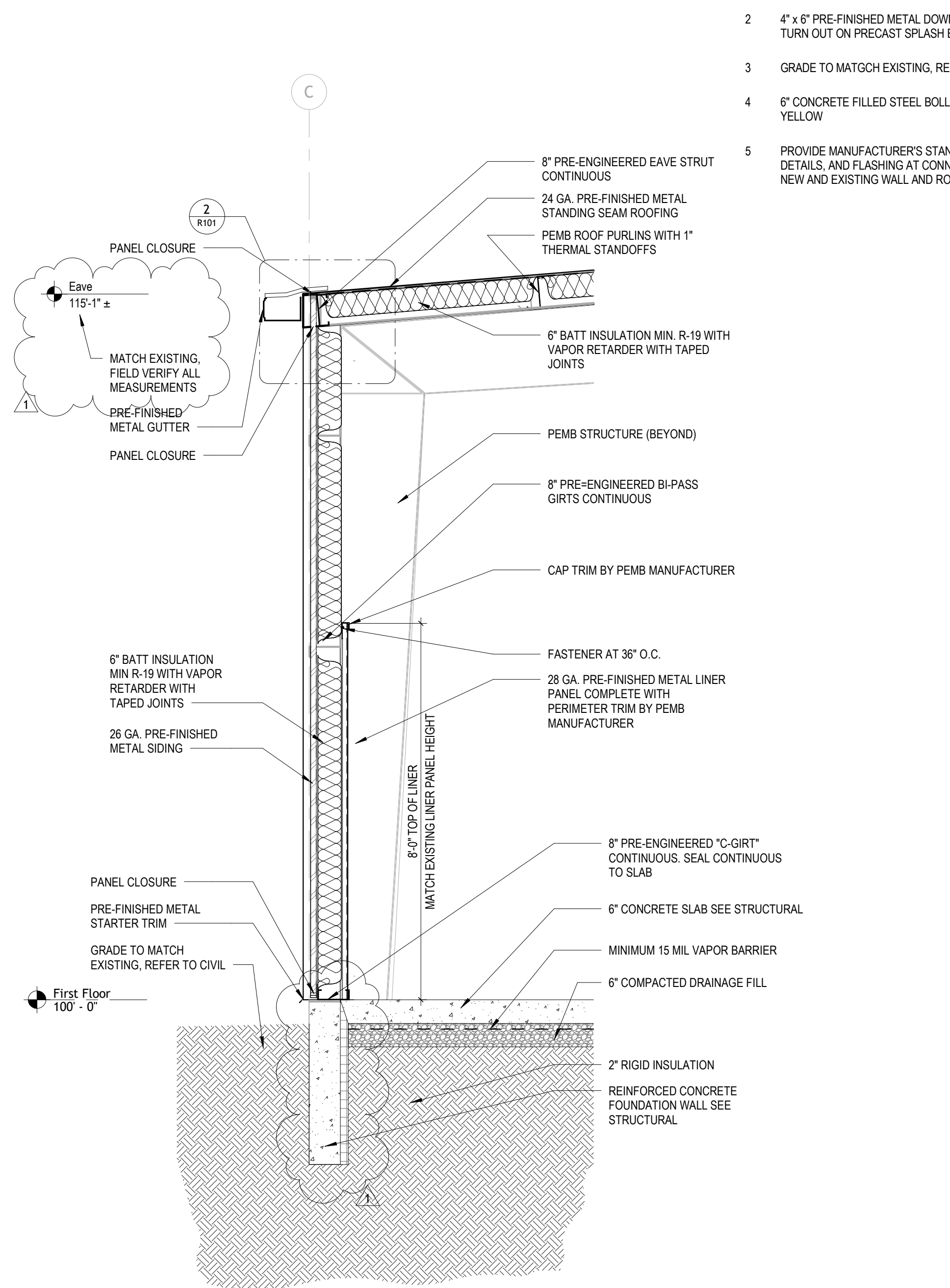
- 28 GA. PRE-FINISHED METAL LINER PANEL COMPLETE WITH PERIMETER TRIM BY PEMB MANUFACTURER, COLOR TO MATCH EXISTING
- 4" x 6" PRE-FINISHED METAL DOWNSPOUT TYP. (4) PLACES TURN OUT ON PRECAST SPLASH BLOCK
- GRADE TO MATCH EXISTING, REFER TO CIVIL
- 6" CONCRETE FILLED STEEL BOLLARD PAINTED SAFETY YELLOW
- PROVIDE MANUFACTURER'S STANDARD EXPANSION JOINT, DETAILS, AND FLASHING AT CONNECTION POINT BETWEEN NEW AND EXISTING WALL AND ROOF CONSTRUCTION



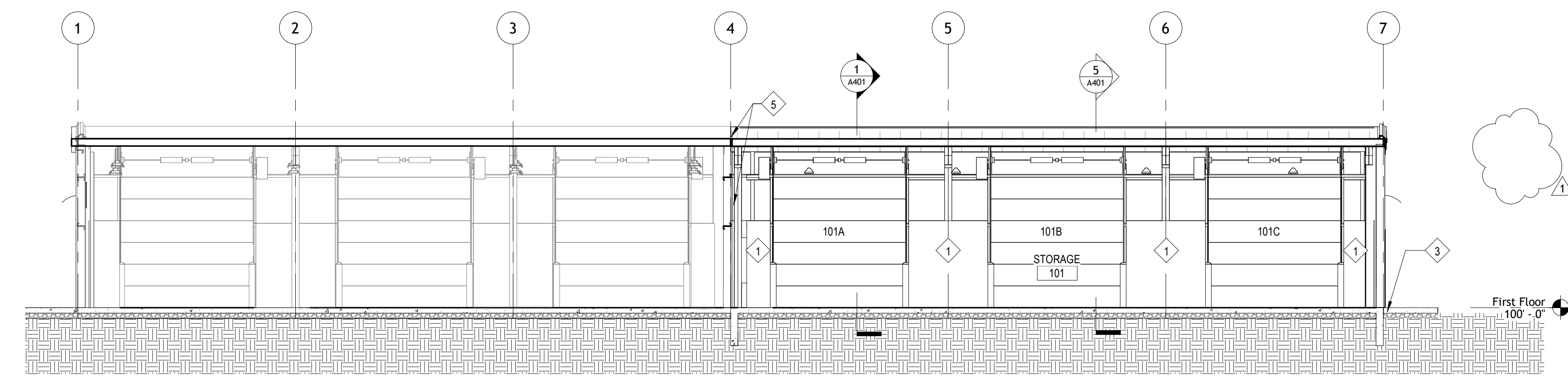
5 Typical Wall Section at Overhead Door
1/2" = 1'-0"



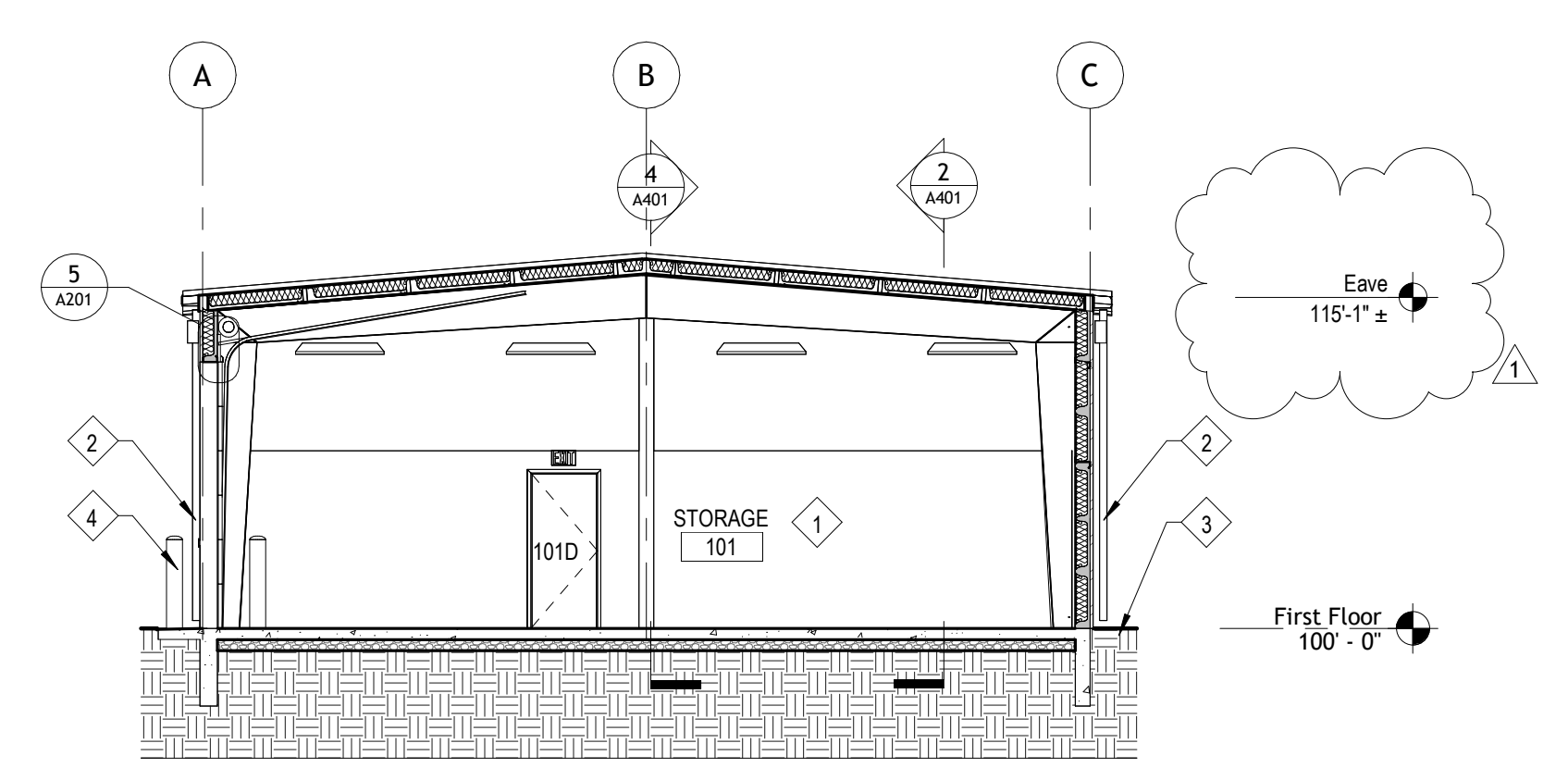
4 Typical Wall Section at Rake
1/2" = 1'-0"



3 Typical Wall Section at Eave
1/2" = 1'-0"



2 Building Section - North
1/8" = 1'-0"



1 Building Section - East
1/8" = 1'-0"

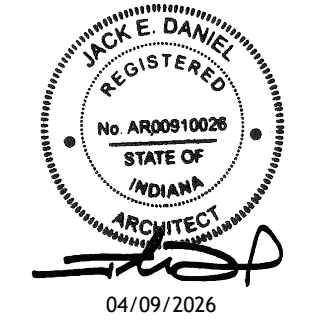
New Construction and Renovation Work For:

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2101 E. Coliseum Blvd.
Fort Wayne, IN 46805



221 West Baker Street
Fort Wayne, Indiana 46802
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REVISION	DATE
1 Addendum 2	2026-04-09

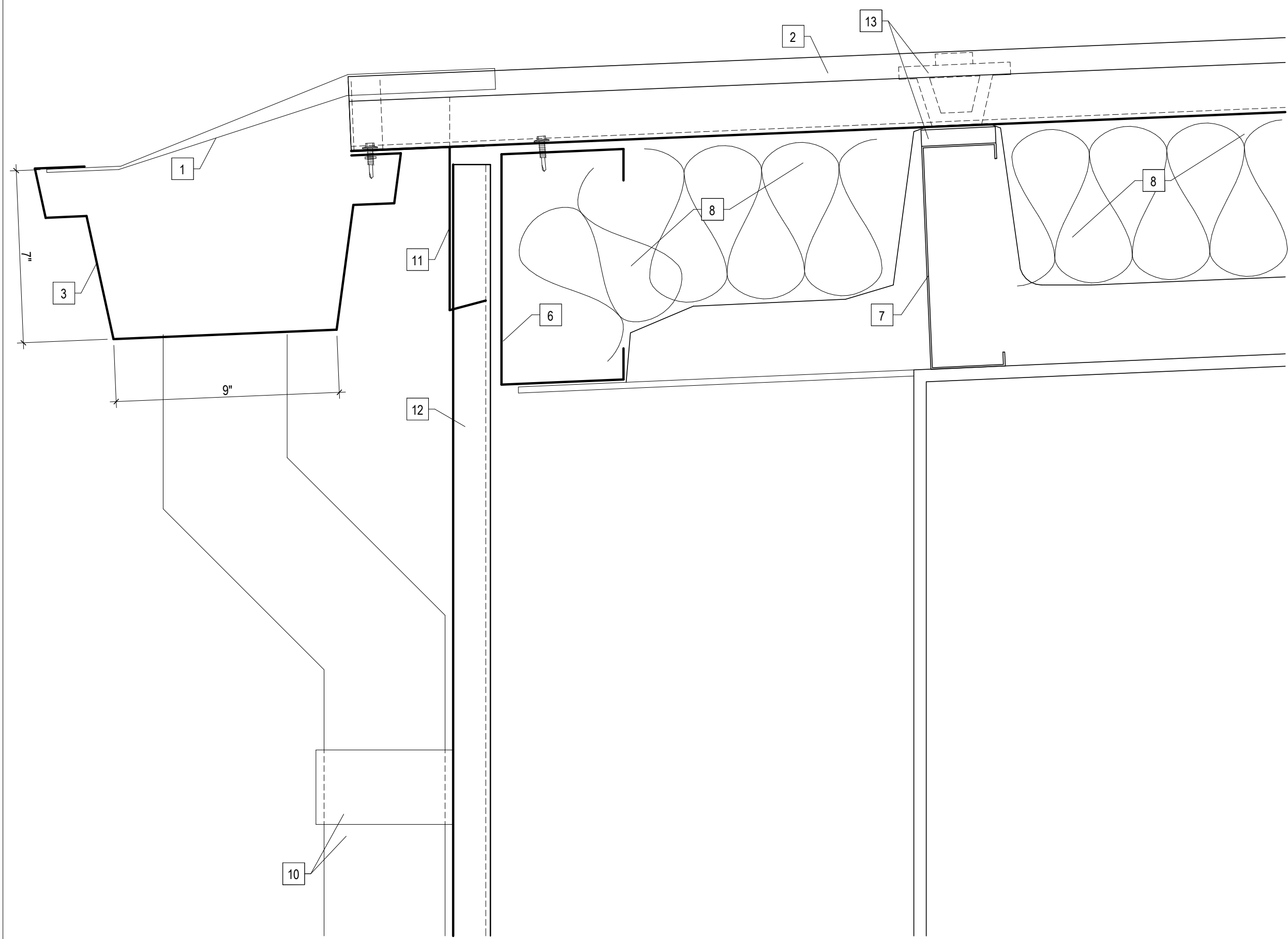
DRAWN BY: PJ	REVIEWED BY: JEF
COMMISSION NUMBER: F25111	DATE: 2026-03-13

A401

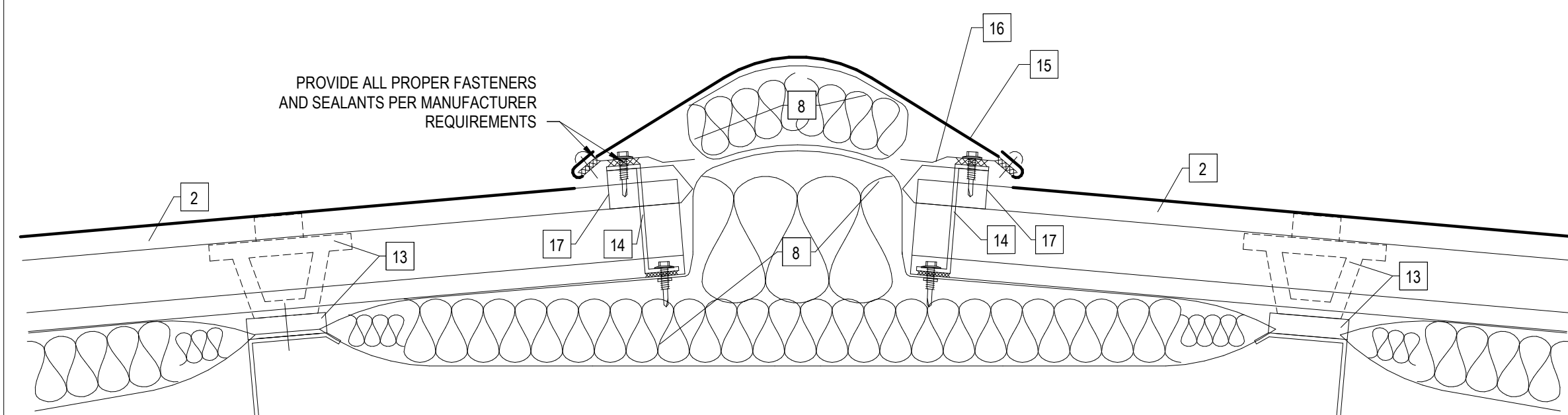
BUILDING SECTIONS

F25111 - C.20.10211 PFW West
 Campus Maintenance Building Addition -
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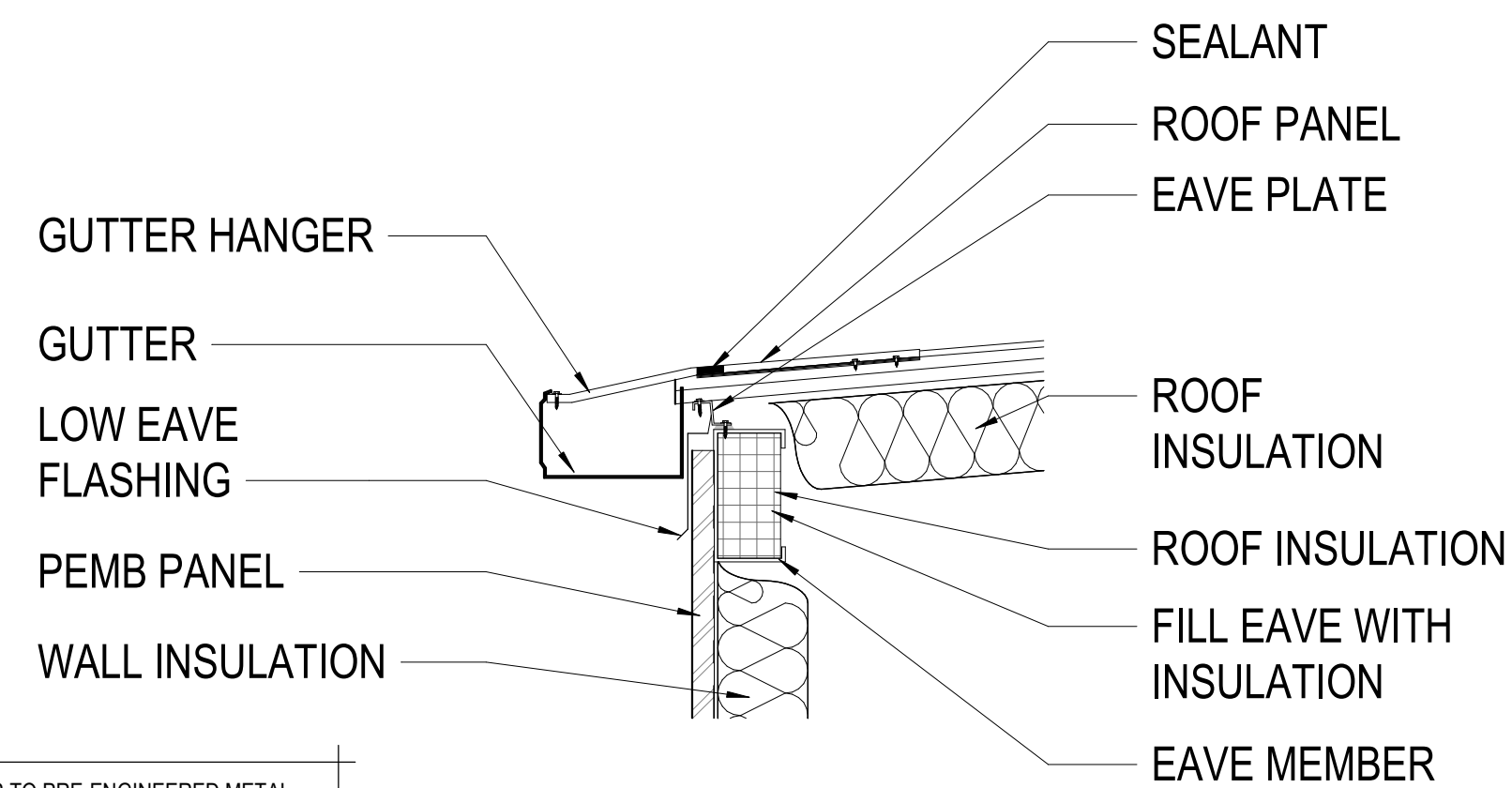
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Campus Maintenance Building Addition -
2025/02/26 12:52:14 PM
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SD000000



6 Gutter
3" = 1'-0"

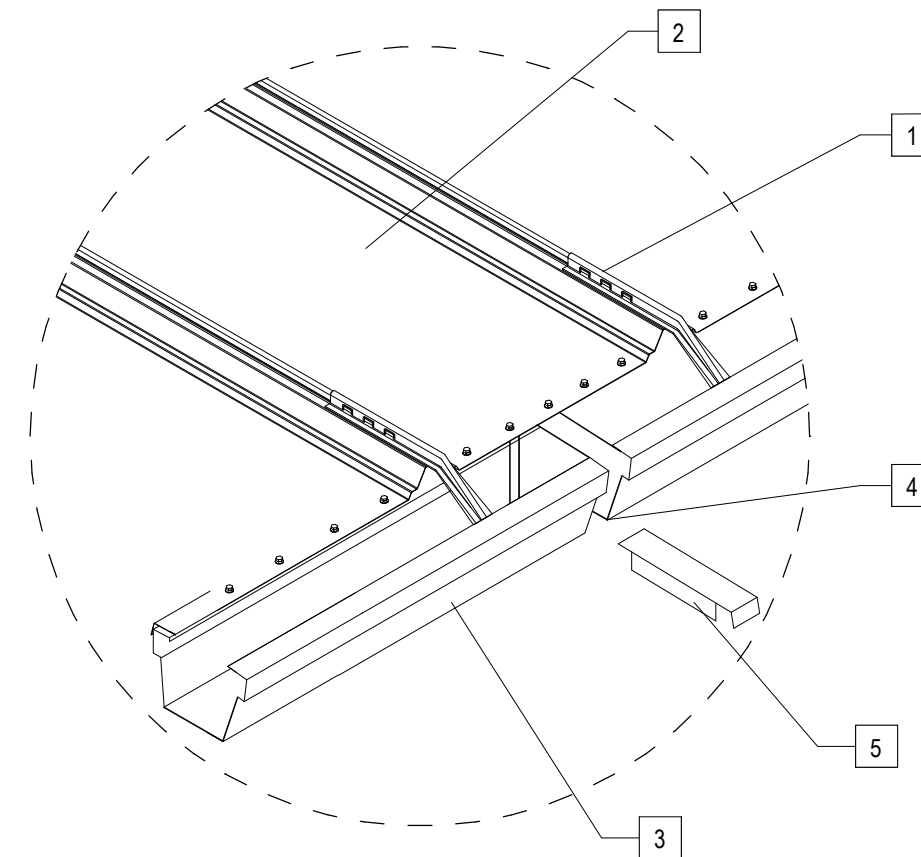


4 Ridge
3" = 1'-0"

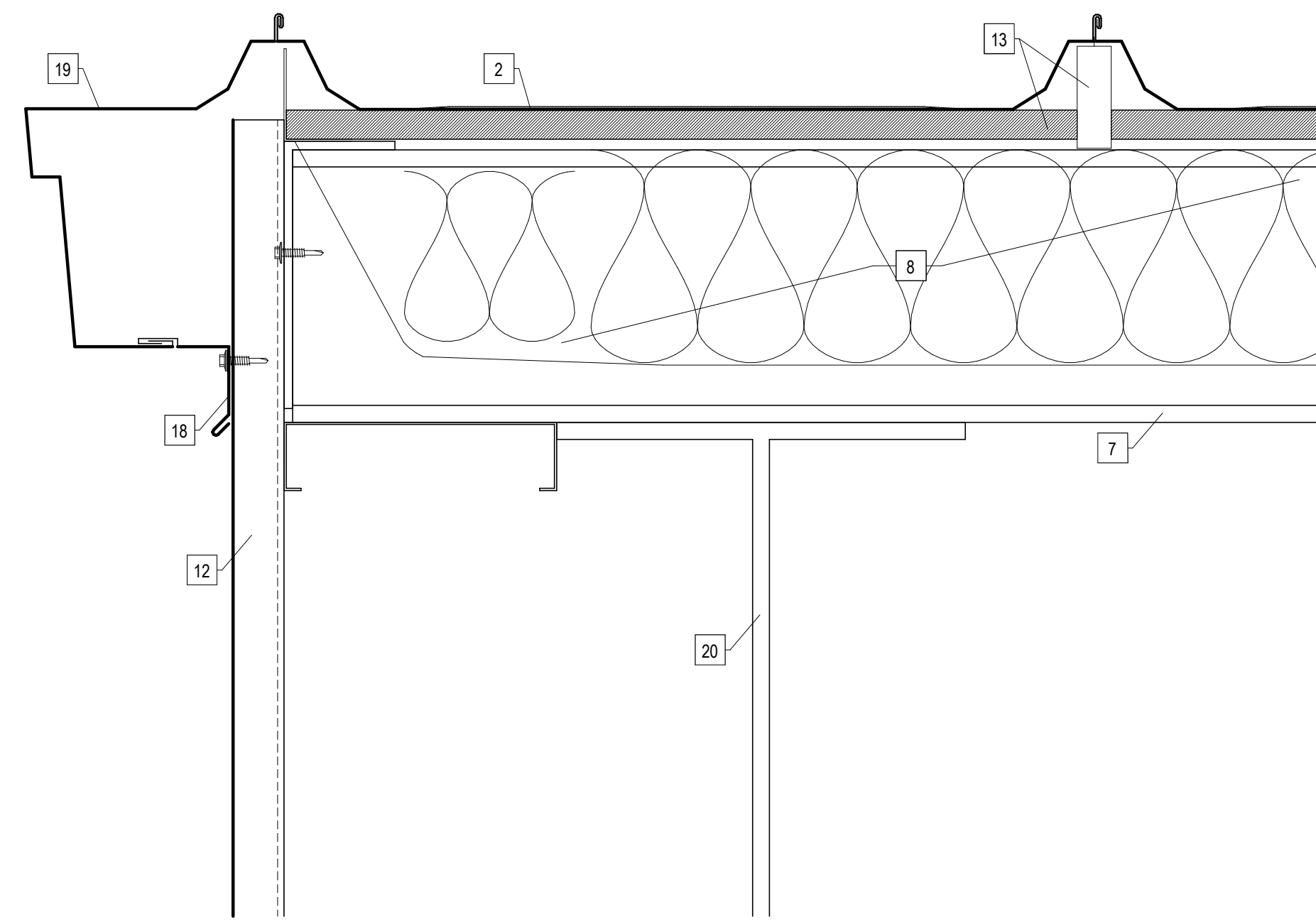


REFER TO PRE-ENGINEERED METAL BUILDING MANUFACTURER'S TYPICAL DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON FASTENERS, FLASHINGS, SEALANTS, ETC.

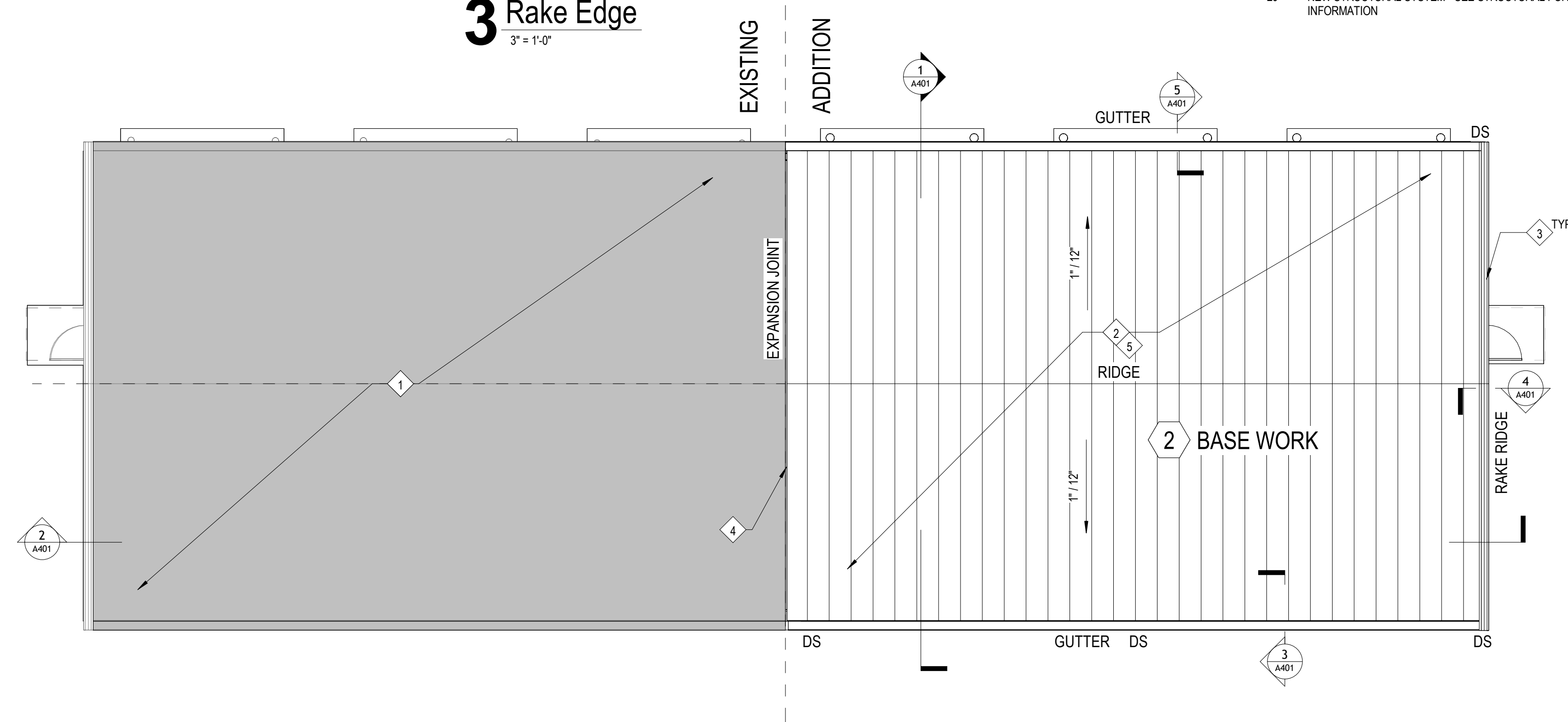
2 On - Slope Gutter Detail
1" = 1'-0"



5 Gutter Expansion Joint
1 1/2" = 1'-0"



3 Rake Edge
3" = 1'-0"



1 Roof Plan
1/8" = 1'-0"

◆ Work Description Notes

- 1 NO WORK AND OR MATERIALS TO BE STORED OR PERFORMED IN THIS AREA
- 2 NEW MANUFACTURER'S 24" WIDE 24 GA GALVALUME TRAPEZOIDAL STRUCTURAL STANDING SEAM METAL ROOF, PANEL CLIP AND THERMAL BLOCKS OVER PURLINS AND OVER BLANKET INSULATION (R-19) WITH VINYL VAPOR RETARDER, AREA <2>
- 3 NEW MANUFACTURER'S PREFINISHED RAKE TRIM, AREA <2> - SEE DETAIL 3/R101
- 4 PROVIDE MANUFACTURER'S STANDARD EXPANSION JOINT, DETAILS AND FLASHINGS AT CONNECTION POINT BETWEEN NEW AND EXISTING WALL AND ROOF CONSTRUCTION
- 5 PROVIDE NEW 20 YEAR MANUFACTURER'S WARRANTY AND 2 YEAR CONTRACTOR'S WARRANTY, AREA <2>

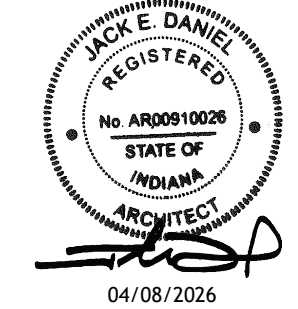
□ Detail Work Description Notes

- 1 NEW ROOFING MANUFACTURER GUTTER STRAP
- 2 NEW MANUFACTURER'S STRUCTURAL STANDING SEAM METAL ROOF PANEL WITH NEW WMP50 VAPOR RETARDER FACTORY APPLIED TO NEW R19 BLANKET INSULATION
- 3 NEW PRE-MANUFACTURED GUTTER SYSTEM
- 4 NEW MANUFACTURER'S GUTTER END CAP
- 5 NEW MANUFACTURER'S GUTTER EXPANSION JOINT COVER TRIM
- 6 NEW EAVE STRUT - SEE STRUCTURAL DRAWINGS
- 7 NEW ROOF PURLIN - SEE STRUCTURAL DRAWINGS
- 8 NEW R-19 BLANKET INSULATION WITH VAPOR RETARDER AT MAIN BUILDING. COLD STORAGE BUILDING DOES NOT REQUIRE INSULATION
- 9 NEW R-30 BLANKET INSULATION
- 10 NEW 5" X 5" PREFINISHED GI DOWNSPOUTS WITH DOWNSPOUTS STRAPS MECHANICALLY ATTACHED AT THE TOP, MIDDLE AND BOTTOM OF DOWNSPOUT
- 11 NEW MANUFACTURER'S EAVE FLASHING TRIM WITH CLOSURE AT NEW METAL WALL PANEL - EXTEND CLOSURE UP INTO PANEL RIBS
- 12 NEW MANUFACTURER'S PREFINISHED GI CORRUGATED WALL PANEL OR INSULATED METAL WALL PANEL, REFER TO WALL SECTIONS AND SPECIFICATIONS
- 13 NEW HIGH PANEL CLIPS AND THERMAL BLOCKS
- 14 NEW MANUFACTURER'S 2" PURLIN
- 15 NEW MANUFACTURER'S RIDGE COVER
- 16 NEW ROOFING MANUFACTURER CORRUGATION METAL PANEL PLUG
- 17 NEW LOCK SEAM PLUG
- 18 NEW MANUFACTURER'S RAKE CLOSURE PIECE - INSTALL PER MANUFACTURER REQUIREMENTS
- 19 NEW MANUFACTURER'S STANDARD 24 GA PREFINISHED GI RAKE EDGE FLASHING
- 20 NEW STRUCTURAL SYSTEM - SEE STRUCTURAL FOR MORE INFORMATION

New Construction and Renovation Work For:
**C.20.10211 PFW West Campus
Maintenance Building Addition - 2026**
2101 E. Coliseum Blvd.
Fort Wayne, IN 46805



221 West Baker Street
Fort Wayne, Indiana 46802
pho 260.422.7994
fax 260.426.2067



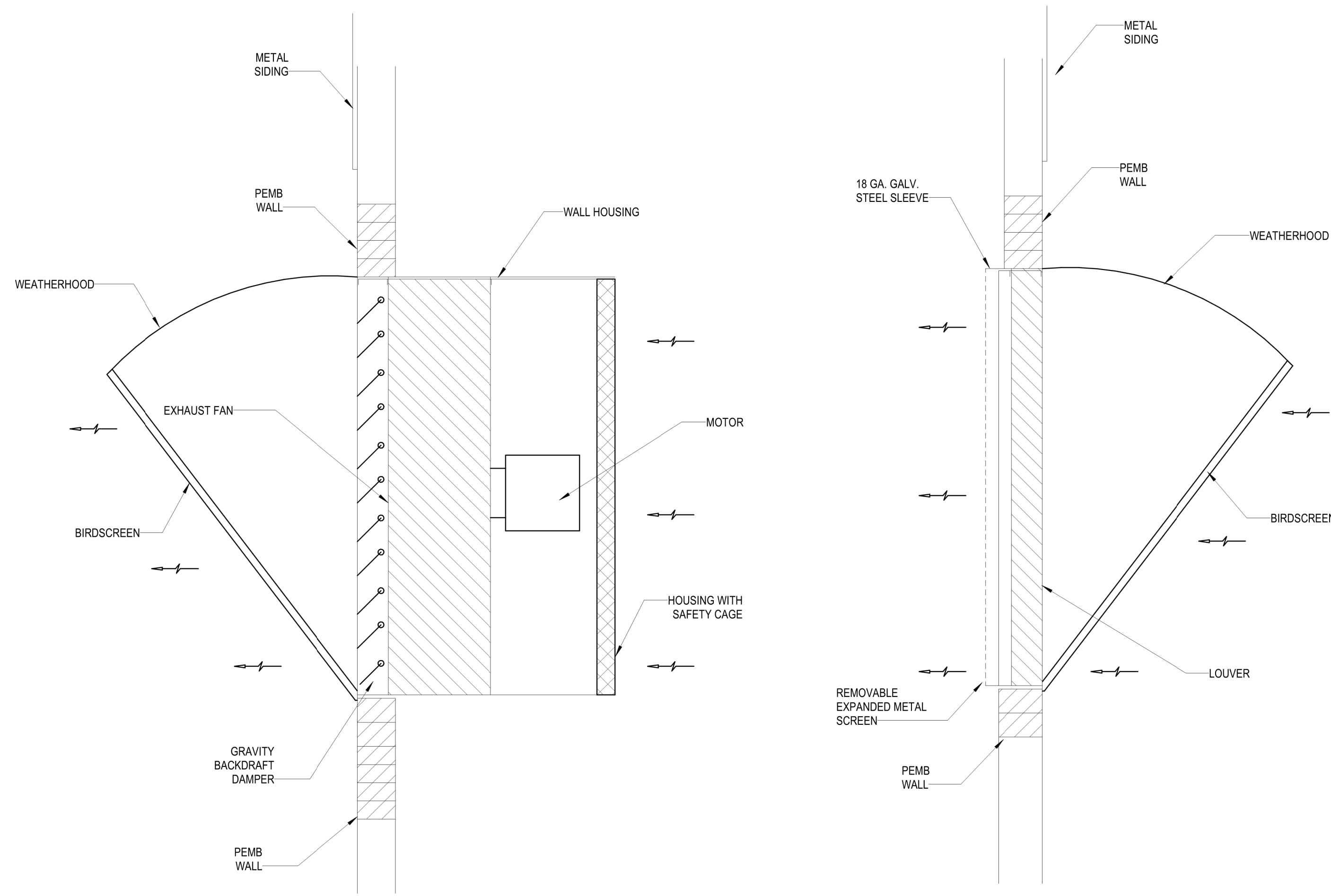
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REVISION: _____ DATE: _____

DRAWN BY: PJ
COMMISSION NUMBER: F25111
REVIEWED BY: JEF
DATE: 2026-03-13

R101

ROOF PLAN



3 Sidewall Exhaust Fan Detail
NTS

2 Intake Louver Detail
NTS

General Conditions Note

ALL CONTRACTORS, BY MAKING THEIR BID, REPRESENT THAT THEY HAVE READ AND UNDERSTAND THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL REFER TO THE ENTIRE CONSTRUCTION DOCUMENT SET FOR GUIDANCE ON DIMENSIONS, HEIGHTS, DETAILING, ETC. AND INSTALL THEIR WORK SO AS NOT TO INTERFERE WITH THE INSTALLATION OF ANOTHER DISCIPLINE'S WORK OR THE GENERAL INTENT OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND/OR DRAWINGS, THE ARCHITECT SHALL DETERMINE WHICH INFORMATION GOVERNS.

ALL TRADES NOTE: IN REFERRING TO THIS SHEET YOU ACKNOWLEDGE:

1. REVIEWING THE ENTIRE DRAWING SET INCLUDING ALL 'G', 'C', 'D', 'S', 'A', 'R', 'P', 'M', AND 'E' SERIES
2. COORDINATE WITH THE GENERAL TRADES CONTRACTOR OR CONSTRUCTION MANAGER FOR EXACT DETAILING, HEIGHTS, ETC. PRIOR TO INSTALLING WORK

MECHANICAL - LOUVER & GRAVITY VENTILATOR SCHEDULE

TAG	SERVING	MANUFACTURER	MODEL	FPM	CFM	FREE AREA (SF)	WIDTH (IN)	HEIGHT (IN)	MATERIAL	NOTES
LV-1	101 STORAGE	GREENHECK	EHH-601	909	2120	2.3	28	28	ALUMINUM	1, 2, 3

NOTES:

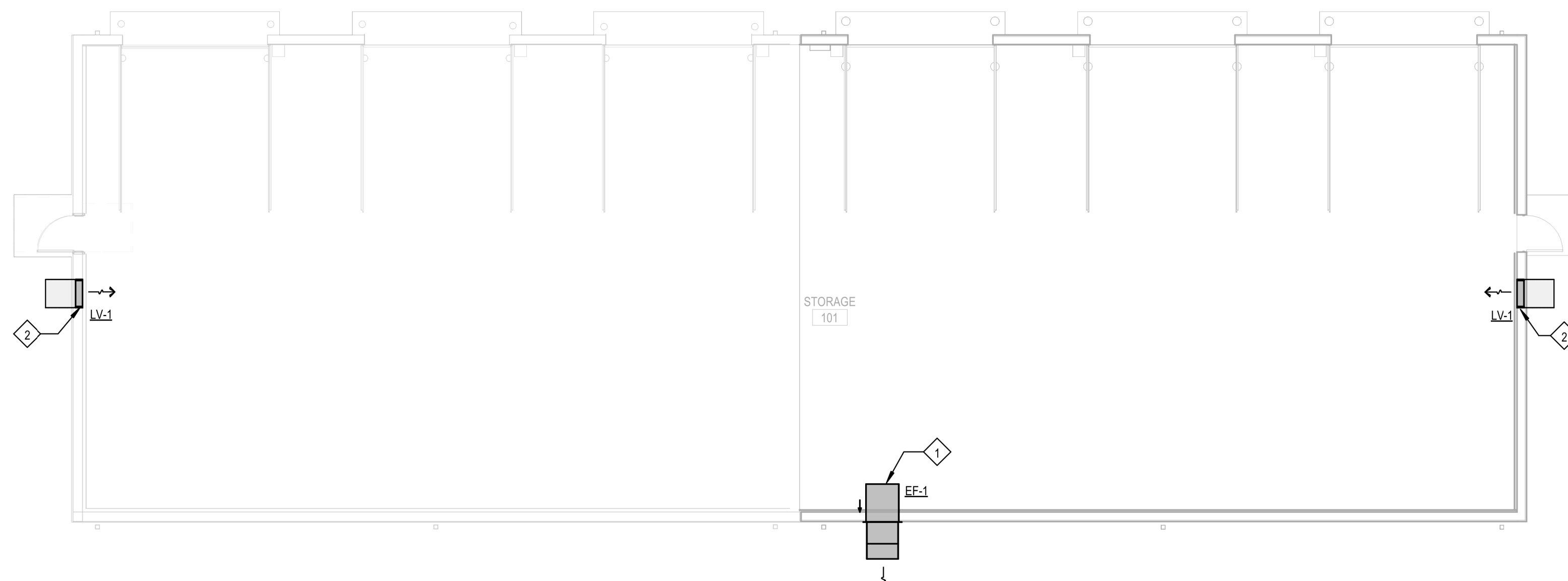
1. PROVIDE WITH WEATHERHOOD AND BIRDSCREEN.
2. LOUVER AND WEATHERHOOD COLOR BY ARCHITECT FROM STANDARD COLOR RANGE. PROVIDE ARCHITECT WITH COLOR SAMPLES.
3. COORDINATE INSTALLATION LOCATION TO AVOID STRUCTURAL MEMBERS.

MECHANICAL - EXHAUST FAN SCHEDULE

TAG	SERVING	MANUFACTURER	MODEL	FAN TYPE	CFM	SONES	ESP	HP	VOLTAGE	PH	HZ	MCA	MOCP	NOTES
EF-1	101 STORAGE	GREENHECK	AER-24	WALL MOUNT	4240	22	.39	3/4	208	1	60	7.5	15	1, 2, 3

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH, GRAVITY BACKDRAFT DAMPER, AND WEATHERHOOD WITH BIRDSCREEN.
2. FAN TO BE CONTROLLED BY ON/OFF SWITCH. SWITCH LOCATION TO BE COORDINATED WITH OWNER.
3. COORDINATE INSTALLATION LOCATION TO AVOID STRUCTURAL MEMBERS.



1 Mechanical Plan - Alternate
1/8" = 1'-0"

General Mechanical Notes

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH STATE AND LOCAL CODES & AMENDMENTS.
2. SEE SPECIFICATION BOOK FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE MATERIALS NECESSARY TO MAKE REQUIRED SYSTEMS AND FEATURES COMPLETE AND FUNCTIONAL; INCLUDING BUT NOT LIMITED TO: ALL FITTINGS, TRANSITIONS, HARDWARE, TEMPORARY CONNECTIONS AND SUPPORTS.
4. DRAWING ORGANIZATION IS NOT TRADE SPECIFIC AND IS NOT INTENDED FOR DIVISION OF WORK AMONG SUBCONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROPERLY DISSEMINATE WORK ON ALL SHEETS AND COORDINATE WITH EVERY SUBCONTRACTOR IN ORDER TO PROVIDE A COMPLETE PROJECT.
5. PROTECT ALL EQUIPMENT AND FINISHES, NEW AND EXISTING, FROM DUST, DEBRIS AND DAMAGE. FINAL CLEAN-UP SHALL BE PERFORMED TO PROVIDE A CLEAN, DUST FREE ENVIRONMENT TO THE OWNER. REFER TO MANUFACTURER'S SPECIFICATIONS FOR EQUIPMENT INSTALLATION REQUIREMENTS.
6. EQUIPMENT, PIPING, AND DUCTWORK LAYOUTS ARE SCHEMATIC IN NATURE. CONTRACTOR MUST ADJUST TO FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES DURING CONSTRUCTION BY ADDING OFFSETS AND ELBOWS WHERE REQUIRED. PRIOR TO INSTALLATION, THE ENGINEER MUST APPROVE ALL PROPOSED MODIFICATIONS TO DUCTWORK LAYOUT AND DESIGN.
7. REFERENCE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, TYPICAL.
8. PROVIDE TESTING, ADJUSTING, AND BALANCING OF ALL MECHANICAL SYSTEMS IN ACCORDANCE WITH SPECIFICATIONS. FINAL REPORT SHALL BE PROVIDED TO OWNER & ENGINEER.
9. RECORD DRAWINGS, OPERATING MANUALS, AND MAINTENANCE MANUALS SHALL BE PROVIDED TO OWNER & ARCHITECT PER ASHRAE 90.1 2007.
10. MECHANICAL SYSTEMS SHALL NOT BE USED DURING CONSTRUCTION FOR HEATING, COOLING, OR VENTILATION.

Mechanical Legend

SEE TITLE SHEET FOR ADDITIONAL SYMBOLS AND ABBREVIATIONS. COMPONENTS SHOWN IN GRAY ARE EXISTING OR SPECIFIED IN OTHER VIEWS.

XX-1 SCHEDULED ITEM

→ DIRECTION OF AIRFLOW

Work Description Notes

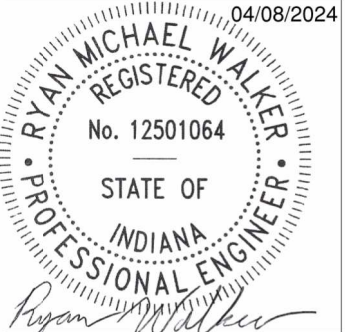
1. EXHAUST FAN TO HAVE GRAVITY BACKDRAFT DAMPER. SEE DETAIL 1.
2. INTAKE LOUVER TO HAVE WEATHER HOOD. SEE DETAIL 2.

New Construction and Renovation Work for:
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2101 E. Coliseum Blvd.
Fort Wayne, IN 46805-1499



221 West Baker Street
Fort Wayne, Indiana 46802
pho 260.422.7994
fax 260.426.2067



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REVISION: DATE:

DRAWN BY: RMW
COMMISSION NUMBER: F25111
REVIEWED BY: EB
DATE: 2026-03-13

M101

MECHANICAL PLAN -
ALTERNATE

LIGHTING FIXTURE SCHEDULE								
TAG	MFG	MODEL	DESCRIPTION	MAX WATTS	MOUNTED	NOTES	ACCEPTABLE MFG/MODEL	ACCEPTABLE MFG/MODEL
ER	DUALITE	EVO D B	4" INDUSTRIAL W/ 20% UPLIGHT, CHAIN HUNG	2	CEILING/WALL		LITHONIA	COOPER
EX	DUALITE	EVC U R W D4	EMERGENCY REMOTE HEAD	5	CEILING/WALL		LITHONIA	COOPER
L01	COLUMBIA LIGHTING	PEL2-40LH-FAW-EU	LED COMBO EXIT SIGN	49	SURFACE/SUSPENDED		LITHONIA	COOPER
L02	HUBBELL	PVL3-180L-304K7-U-D8T	2FT HIGH BAY LED FIXTURE	28	WALL		LITHONIA	COOPER

General Conditions Note

ALL CONTRACTORS, BY MAKING THEIR BID, REPRESENT THAT THEY HAVE READ AND UNDERSTAND THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL REFER TO THE ENTIRE CONSTRUCTION DOCUMENT SET FOR GUIDANCE ON DIMENSIONS, HEIGHTS, DETAILING, ETC. AND INSTALL THEIR WORK SO AS NOT TO INTERFERE WITH THE INSTALLATION OF ANOTHER DISCIPLINE'S WORK OR THE GENERAL INTENT OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND/OR DRAWINGS, THE ARCHITECT SHALL DETERMINE WHICH INFORMATION GOVERNS.

ALL TRADES NOTE: IN REFERRING TO THIS SHEET YOU ACKNOWLEDGE:

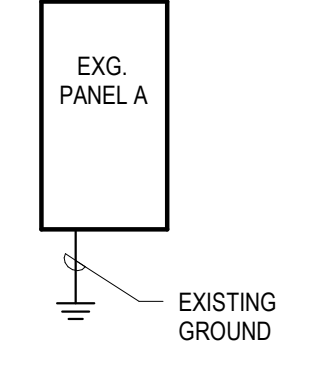
1. REVIEWING THE ENTIRE DRAWING SET INCLUDING ALL 'G', 'C', 'D', 'S', 'A', 'R', 'P', 'M', AND 'E' SERIES
2. COORDINATE WITH THE GENERAL TRADES CONTRACTOR OR CONSTRUCTION MANAGER FOR EXACT DETAILING, HEIGHTS, ETC. PRIOR TO INSTALLING WORK

Work Description Notes

1. WIRE TO AND EXTEND EXISTING LIGHTING CIRCUITS IN PANEL A. NEW 3-WAY SWITCHING TO MATCH EXISTING LIGHTING CIRCUITS
2. WIRE TO EXISTING EXTERIOR LIGHTING CIRCUIT
3. WIRE TO AVAILABLE CIRCUIT BREAKER IN EXISTING PANEL A

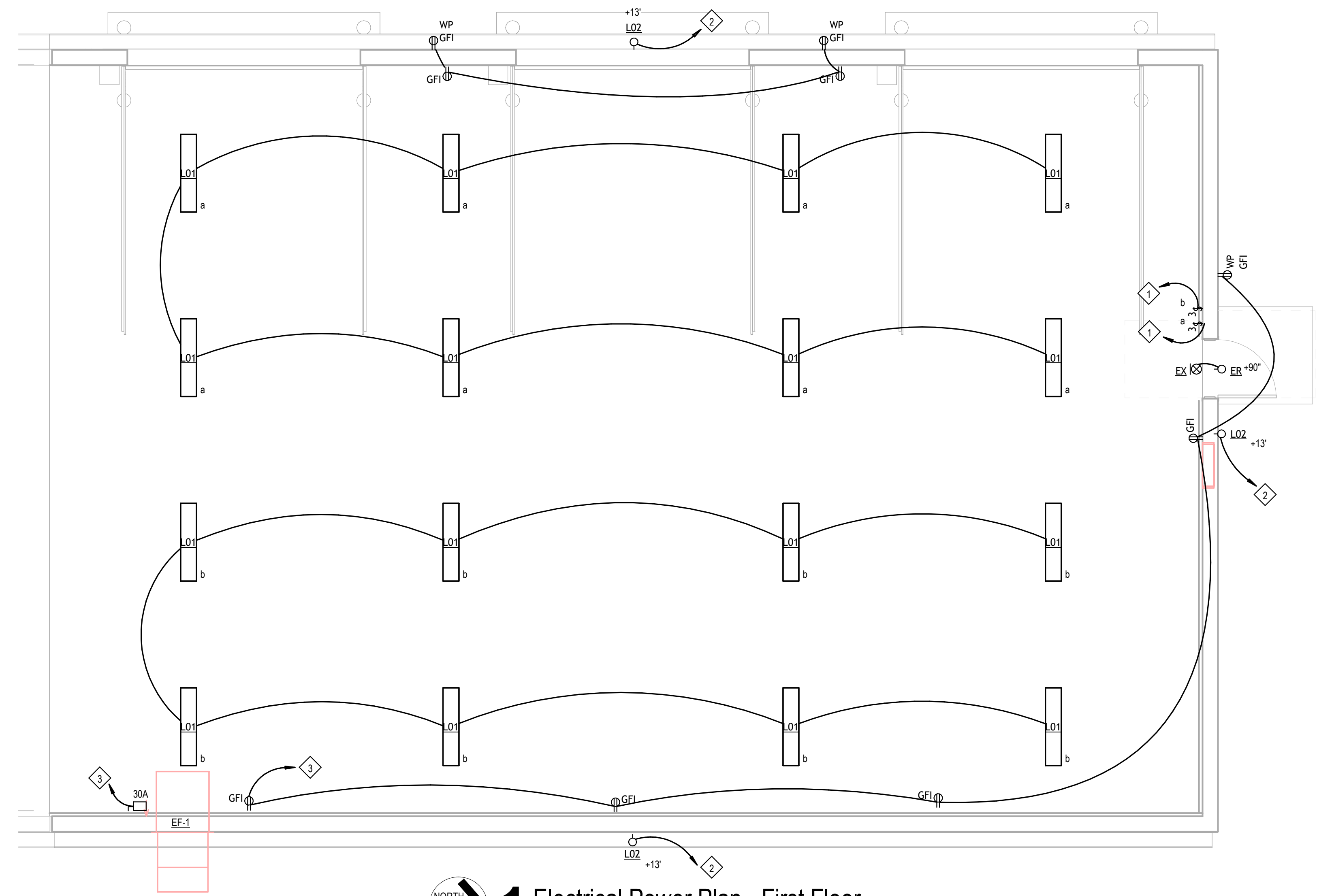
General Electrical Notes

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH STATE AND LOCAL CODES & AMENDMENTS.
2. SEE SPECIFICATION BOOK FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE EVERYTHING NECESSARY TO MAKE REQUIRED SYSTEMS AND FEATURES COMPLETE AND FUNCTIONAL, INCLUDING BUT NOT LIMITED TO, FITTINGS, ADAPTERS, WIRE, BOXES, RACEWAY, HARDWARE, TEMPORARY CONNECTIONS AND SUPPORTS.
4. DRAWING ORGANIZATION IS NOT TRADE SPECIFIC AND IS NOT INTENDED FOR DIVISION OF WORK AMONG SUBCONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROPERLY DISSEMINATE WORK ON ALL SHEETS AND COORDINATE WITH EVERY SUBCONTRACTOR IN ORDER TO PROVIDE A COMPLETE PROJECT.
5. ELECTRICAL DRAWINGS ARE SCHEMATIC IN NATURE. ALL DEVICES AND EQUIPMENT ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTORS TO COORDINATE THEIR WORK WITH ALL OTHER TRADES ON SITE. EXTRAS WILL NOT BE GIVEN FOR FORESEEABLE WORK COORDINATION.
6. PROTECT ALL EQUIPMENT AND FINISHES, NEW AND EXISTING, FROM DUST DEBRIS AND DAMAGE. FINAL CLEAN-UP SHALL BE PERFORMED TO PROVIDE A CLEAN, DUST FREE ENVIRONMENT TO THE OWNER.
7. EXCEPT WHERE NOTED OTHERWISE, SIZE BRANCH CIRCUIT CONDUCTORS WITHIN THE FOLLOWING MAXIMUM LENGTH LIMITS: (MEASURE TO THE CENTER OF THE LOAD FOR LIGHTING AND MOST REMOTE OUTLET FOR RECEPTACLE CIRCUITS). MINIMUM CONDUCTOR SIZE FOR 120V 20A CIRCUIT: 65 FEET - #12, 110 FEET - #10, 165 FEET - #8, 270 FEET - #6
8. PROVIDE ADDITIONAL DERATING PER NEC SECTION 310 FOR ALL HOME RUNS WITH MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A SINGLE RACEWAY.
9. SHARING OF NEUTRALS SHALL NOT BE PERMITTED.
10. PROVIDE BACKBOX AND 3/4" CONDUIT TO ATTIC WITH PULL WIRE FOR ALL TELEPHONE/DATA/AUDIO OUTLETS.



2 Electrical Riser Diagram

NTS



1 Electrical Power Plan - First Floor

1/4" = 1'-0"

Electrical Legend

SEE TITLE SHEET FOR ADDITIONAL SYMBOLS AND ABBREVIATIONS. SYMBOLS IN THIS LIST ARE NOT DRAWN TO SCALE. SYMBOLS IN THIS LIST, MAY NOT APPLY TO THIS PROJECT. HEIGHTS LISTED HERE APPLY UNLESS NOTED OTHERWISE. HEIGHTS ARE TO THE BOTTOM OF THE DEVICE.

COMPONENTS SHOWN IN GRAY ARE EXISTING OR SPECIFIED IN OTHER VIEWS.

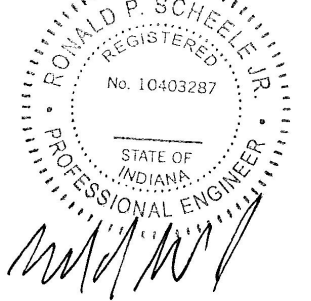
- HOME RUN TO PANEL & CIRCUIT NO.
- XX MARK FOR SCHEDULED ITEM
- LIGHT FIXTURE; CEILING MOUNTED
- DOWNLIGHT FIXTURE; CEILING MTD./EXTERIOR
- LIGHT FIXTURE; WALL MOUNTED.
- ⊕ EMERGENCY LIGHT WALL PACK.
- \$ SINGLE POLE SWITCH; +4" AFF
- 3 THREE-WAY SWITCH; +4" AFF
- SM MOTION DETECTOR SWITCH; +44" AFF
- ◇ OCCUPANCY SENSOR - WALL MOUNTED
- ⊗ EXIT LIGHT; CEILING MOUNTED; NO DIRECTION
- ⊗ EXIT LIGHT; CEILING MOUNTED; DIRECTIONAL
- PANEL BOARD (SURFACE MOUNT); +72" AFF
- SAFETY DISCONNECT SWITCH; NON FUSED; +66" AFF TO TOP
- XX DENOTES AMPERE RATING
- SAFETY DISCONNECT SWITCH; FUSED; +66" AFF TO TOP
- XX DENOTES AMPERE RATING
- ⊕ GFI GROUND FAULT INTERRUPTER RECEPTACLE; +16" AFF
- ⊕ WP GFI WEATHER PROOF GROUND FAULT INTERRUPTER RECEPTACLE; +16"

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**C.20.10211 PFW West Campus
 Maintenance Building Addition - 2026**
 2101 E. Coliseum Blvd.
 Fort Wayne, IN 46805-1499

PURDUE UNIVERSITY
FORT WAYNE

MARTIN RILEY
 architects+engineers

221 West Baker Street
 Fort Wayne, Indiana 46802
 pho 260.422.7994
 fax 260.426.2067



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REVISION	DATE
1	ADDENDUM 2 2026-04-09

DRAWN BY: VRK
 COMMISSION NUMBER: F25111
 REVIEWED BY: RPS
 DATE: 2026-03-13

E101

ELECTRICAL PLAN

F25111 - C.20.10211 PFW West Campus Maintenance Building Addition - 2026-03-13 3:45:14 PM
 C:\Users\kornwinski\Documents\F25111 - PFW W Main Add - MEP - kornwinski@martin-riley.com.rvt
 Project Status

**SECTION 31 2323
FILL****PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Filling, backfilling, and compacting for building volume below grade, footings, slabs-on-grade, paving, and utilities within the building.
- B. Filling holes, pits, and excavations generated as a result of removal (demolition) operations.

1.02 RELATED REQUIREMENTS

- A. Section 03 3000 - Cast-in-Place Concrete.
- B. Section 31 1000 - Site Clearing.
- C. Section 31 2200 - Grading: Site grading.
- D. Section 31 2316 - Excavation: Removal and handling of soil to be re-used.

1.03 REFERENCE STANDARDS**1.04 SUBMITTALS**

- A. See Section 01 3000 - General Requirements, for submittal procedures.
- B. Product Data for Manufactured Fill.
- C. Fill Composition Test Reports: Results of laboratory tests on proposed and actual materials used, including manufactured fill.
- D. Compaction Density Test Reports.
- E. Testing Agency Qualification Statement.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. When necessary, store materials on site in advance of need.
- B. When fill materials need to be stored on site, locate stockpiles where indicated.
 - 1. Separate differing materials with dividers or stockpile separately to prevent intermixing.
 - 2. Prevent contamination.
 - 3. Protect stockpiles from erosion and deterioration of materials.

1.06 WARRANTY

- A. See Section 01 7700 Contract Close-out, for additional warranty requirements.
- B. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS**2.01 FILL MATERIALS**

- A. Refer to S001

2.02 SOURCE QUALITY CONTROL

- A. Refer to S001
- B. If tests indicate materials do not meet specified requirements, change material and retest.

PART 3 EXECUTION**3.01 EXAMINATION**

- A. Identify required lines, levels, contours, and datum locations.
- B. Verify areas to be filled are not compromised with surface or ground water.

3.02 FILL AT SPECIFIC LOCATIONS

- A. At Lawn Areas:
 - 1. Use general fill.
 - 2. Fill up to 6 inches below finish grade elevations.
 - 3. Fill up to subgrade elevations.
 - 4. Compact to 95 percent of maximum dry density.
 - 5. See Section 32 9119 for topsoil placement.

3.03 CLEANING

- A. Remove unused stockpiled materials, leave area in a clean and neat condition. Grade stockpile area to prevent standing surface water.
- B. Leave borrow areas in a clean and neat condition. Grade to prevent standing surface water.

END OF SECTION

West Campus Maintenance Building Addition – 2026

Purdue University
Fort Wayne, Indiana

March 13, 2026

Structural and Civil
Certified by:

Name
Professional Engineer # _____

Architectural
Certified by:

Name
Registered Architect # _____

Electrical
Certified by:

Name
Professional Engineer # _____

Mechanical
Certified by:

Name
Professional Engineer # _____

**SECTION 00 3100
AVAILABLE PROJECT INFORMATION**

PART 1 GENERAL

1.01 INFORMATION PROVIDED IN THIS SECTION IS CONSIDERED BASIS OF DESIGN. SEE SECTION 01 1500 AND SECTION 01 6000 FOR SUBSTITUTIONS MADE DURING THE BIDDING PROCESS.

PART 2 PRODUCTS

2.01 REFER TO ATTACHMENTS



A DIVISION OF NUCOR CORPORATION
Notes and Specifications

Building Erection Notes

1) The general contractor and/or erector is responsible to safely and properly erect the metal building system in conformance with these drawings, OSHA requirements and metal building system in conformance with these drawings, OSHA requirements and either MBMA or CSA S16 standards pertaining to proper erection. This includes, but is not limited to, the correct use of temporary guys and bracing where needed for squaring, plumbing, and securing the structural and secondary framing. Secondary wall framing members (girts or bar joists) are not designed to function as a work platform or provide safety tie-off attachment in accordance with OSHA requirements. Secondary roof framing members (purlins or bar joists) are not designed to provide safety tie-off attachment in accordance with OSHA requirements.

2) A325 & A490 Bolt Tightening requirements: It is the responsibility of the erector to ensure proper bolt tightness in accordance with applicable regulations. See the RCSC Specification for Structural Joints Using A325 or A490 Bolts or CAN/CSA S16 "Limit States Design of Steel Structures" for more information. The following criteria may be used to determine the bolt tightness (i.e., "snug-tight" or "fully-tensioned"), unless required otherwise by local jurisdiction or contract requirements:

- a) All A325 bolts in primary framing (rigid frames and bracing) may be "snug-tight", except as follows: "Fully-tensioned" A325 bolts if:
b) Building supports a crane system with a capacity greater than 5 tons.
c) Building supports machinery that creates vibration, impact or stress-reversals on the connections. The Engineer-of-Record for the project should be consulted to evaluate for this condition.
d) The project site is located in a high seismic area. For IBC-based codes, "High Seismic Area" is defined as "Seismic Design Category" of "D", "E", or "F". See the "Building Loads" section of this page for the defined seismic design category for this project.
e) Any connection designated in these drawings as "A325-SC", "Slip-Critical (SC)" connections must be free of paint, oil, or other materials that reduce friction at contact surfaces. Galvanized or lightly rusted surfaces are acceptable.
f) In Canada, all A325 and A490 bolts shall be "fully pre-tensioned", except for secondary members (purlins, girts, opening framing, etc.) and flange braces.
g) Secondary members (purlins, girts, opening framing, etc.) and flange brace connections may always be "snug-tight", unless indicated otherwise in these drawings.

- 3) The metal building supplier shall be notified prior to any field modifications. Modifications shall be approved by the metal building supplier before work is undertaken.
4) Common Abbreviations:
a) TYP UNO - Typical Unless Noted Otherwise
b) SLV - Short Leg Vertical
c) LLV - Long Leg Vertical
d) NS & FS - Near Side and Far Side
e) O.A.L. - Overall Length
f) SIM - Similar
g) NIC - Not in Contract
h) SL - Steel Line
i) N/A - Not Applicable
j) MBS - Metal Building Supplier
5) Construction loads shall not be placed on any structural steel framework unless such framework is safely bolted, welded, or otherwise adequately secured.
6) Purlins not to be used as an anchorage point for a fall arrest system unless written approval is obtained from the metal building supplier.
7) Purlins may only be used as a walking/working surface when installing safety systems, after all permanent bridging has been installed and fall protection is provided.
8) Construction loads may be placed only within a zone that is within 8 feet of the center line of the primary support member. CFR bundles should be placed directly over the rigid frames.
9) All lifting devices must meet OSHA or MSHA standards and in no case is it acceptable to use structural members supplied by the MBS as a spreader bar or lifting device.

General Design Notes

- 1) All structural steel sections and welded plate members are designed in accordance with ANSI/AISC 360 "Specifications for Structural Steel Buildings" or the CAN/CSA S16 "Limit States Design of Steel Structures", as required by the specified building code.
2) All welding of structural steel is based on either AWS D1.1 "Structural Welding Code - Steel" or CAN/CSA W59 "Welded Steel Construction (Metal Arc Welding)", as required by the specified building code.
3) All cold formed members are designed in accordance with ANSI/AISI S11 or CAN/CSA S136 "Specifications for the Design of Cold Formed Steel Structural Members", as required by the specified building code.
4) All welding of cold formed steel is based on AWS D1.3 "Structural Welding Code - Sheet Steel" or CAN/CSA W59 "Welded Steel Construction (Metal Arc Welding)", as required by the specified building code.
5) This Metal Building Supplier facility is IAS AC-472 Accredited and CAN/CSA A660 and W47.1 Certified (if applicable) for the design and manufacturing of Metal Building Systems.
6) If joists are included with this project, they are supplied as a part of the systems engineered metal building and are fabricated in accordance with the requirements of Section 1926.758 of the OSHA safety standards for steel erection, dated January 18, 2001.

Material Specifications

Table with 2 columns: Material and Specification. Includes items like Plate and Flange Material, Built-Up Structural Web, Hot-Rolled Structural, Structural Tube, Structural Pipe, Cold-Formed Structural, Classic Roof Panel, CFR / VR16 II Roof Panel, All Wall Panel Profiles, Rod Bracing, Welds, High-Strength Bolts, Machine Bolts.

PROJECT NUMBER: W14J0464A
PROJECT NAME: IPFW WEST CAMPUS MAINTENANCE BLDG.
PROJECT LOCATION: FORT WAYNE, IN 46805
CUSTOMER: STREBIG CONSTRUCTION INC.



BUILDING LOADS

DESIGN CODE: INBC 2008
ROOF LIVE LOAD: 20.00 PSF MBMA OCC. CLASS: II
LIVE LOAD REDUCIBLE No
GROUND SNOW LOAD: 20.0 PSF SNOW EXP. FACTOR, Ce: 1.00
SNOW IMPORTANCE FACTOR, Is: 1.00
WIND: 90 mph WIND IMPORTANCE FACTOR, Iw: 1.00
EXPOSURE: B
UL 90 Yes

SEISMIC INFORMATION Ss: 0.150 S1: 0.059
Design Sds/Sd1: 0.160 / 0.094 Site Class: D
Seismic Imp. Factor: 1.00 Seismic Design Category: B
Analysis Procedure: Equivalent Lateral Force Method
Basic SFRS: Not Detailed for Seismic

NOTES:
1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILING, ETC., ARE SUSPENDED FROM ROOF MEMBERS, CONSULT THE M.B.S. IF THESE CONCENTRATED LOADS EXCEED 200 POUNDS, OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.
2) THE DESIGN OF STRUCTURAL MEMBERS SUPPORTING GRAVITY LOADS IS CONTROLLED BY THE MORE CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD, AS DETERMINED BY THE APPLICABLE CODE.

Table with 2 columns: BUILDING and values. Includes ROOF DEAD (PSF): 3.00, PRI. COL. (PSF): 5.00, SEC. COL. (PSF): 5.00, SNOW Ct: 1.20, SNOW Cs: 1.00, ROOF SNOW (PSF): 16.80, WIND ENCLOSURE: Closed, GCR: 0.18, SEISMIC R: 3.00, SEISMIC Cs: 0.053, BASE SHEAR (KIPS): 1.70

FOR OCCUPANCY CATEGORY I OR II BUILDINGS, IBC ALLOWS FOR SINGLE STORY BUILDINGS TO HAVE NO LIMIT FOR SEISMIC STORY DRIFT. PLEASE NOTE THAT ANY INTERIOR WALLS, PARTITIONS, CEILINGS, AND EXTERIOR WALLS SHOULD BE DETAILED (BY OTHERS) TO ACCOMMODATE THIS STORY DRIFT.

Form with checkboxes for various building components: PRIMARY AND SECONDARY STEEL PRIMER COLOR: GRAY, ROOF SHEETING, THERMAL BLOCKS, SEAMING METHOD, COMPOSITE CFR DECK, ROOF LINE TRIM, EXTERIOR WALL SHEETING, EXTERIOR WALL CORNER TRIM FINISH, EXTERIOR BASE TRIM, FRAMED OPENING TRIM, WALL FRAMED OPENING, INTERIOR WALL SHEETING, INTERIOR CEILING LINER, INTERIOR WALL TRIM, DOWNSPOUTS, WALKDOORS, WINDOWS, INSULATION, CRANES, MEZZANINE, WALL TRANSLUCENT PANELS, ROOF TRANSLUCENT PANELS, INSULATED PANELS, PIPE JACKS, ROOF FRAMED OPENINGS, RIDGE VENTS.

Form with checkboxes for exterior details: FASCIA, PROJECTION; FACE PANEL, TYPE; BACK PANEL, TYPE; CAP TRIM PAINTED; CLOSED SYSTEM, CLEAR UNDER SOFFIT TRIM; SOFFIT PANEL, TYPE; SOFFIT TRIM AT BUILDING LINE PAINTED; OPEN SYSTEM, (NO SOFFIT PANEL PROVIDED); CLEAR UNDER FASCIA; PARAPET SYSTEM; STRUCTURAL PARAPET; NON-STRUCTURAL PARAPET; TOP OF PARAPET HEIGHT; BACKER PANEL, TYPE; CANOPY (EXPOSED BEAM), PROJECTION; AT EAVE LINE; BELOW EAVE; ROOF PANEL, TYPE; SOFFIT PANEL, TYPE; CLEAR UNDER CANOPY BEAM; EAVE EXTENSION (CONCEALED BEAM), PROJECTION; SOFFIT PANEL, TYPE; SOFFIT TRIM AT BUILDING LINE PAINTED; RAKE EXTENSION, PROJECTION; SOFFIT PANEL, TYPE; SOFFIT TRIM AT BUILDING LINE PAINTED; PARTITION WALL SHEETING; PANEL TYPE; PARTITION WALL TRIM COLOR.

REVISIONS:
1. APPROVED AS NOTED
2. REVISE AND RESUBMIT
3. NOT APPROVED

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item shall not include approval of an assembly of which the item is a component. The contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.



H2 DESIGN, LLC
DATE: 7/15/14 BY: Timothy A. Hamilton, AIA

Table: ERECTION MANUALS REQUIRED. Lists manuals for CFR ROOF, CLASSIC ROOF, WALL SHEETING, H9700 OR H8260, H9420 OR H8201, H9430 OR H8300, SINGLE CURB (H9850), DOUBLE CURB (H9800), VR16 II (H9925).

DRAWING INDEX

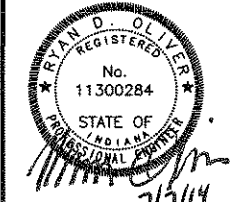
Table with 2 columns: Item and Drawing Number. Includes COVERSHEET: C1, ANCHOR BOLT DRAWINGS: F1, F2, COLUMN BASE REACTIONS: F2, STRUCTURAL/SHEETING DRAWINGS: E1, E2, E3, E4, E5, E6, DETAILS.

Table with 2 columns: Item and Date. Includes ANCHOR BOLTS, PERMITS, MBS JSA, IAS, 7-7-14, 7-7-14.

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600 APACHE TRAIL, TERRELL, TX 75760
PHONE: (972) 524-5407 FAX: (972) 524-5417
1050 WATERY LAKE, BRIGHAM CITY, UT 84302
PHONE: (435) 918-3100 FAX: (435) 918-3101

IPFW WEST CAMPUS MAINTENANCE BLDG.
FORT WAYNE, IN 46805
STREBIG CONSTRUCTION INC.
FORT WAYNE, IN 46802

PROJECT NAME: IPFW WEST CAMPUS MAINTENANCE BLDG.
CUSTOMER NAME: STREBIG CONSTRUCTION INC.
JOB NUMBER: W14J0464A



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SHEET: C1 of 1

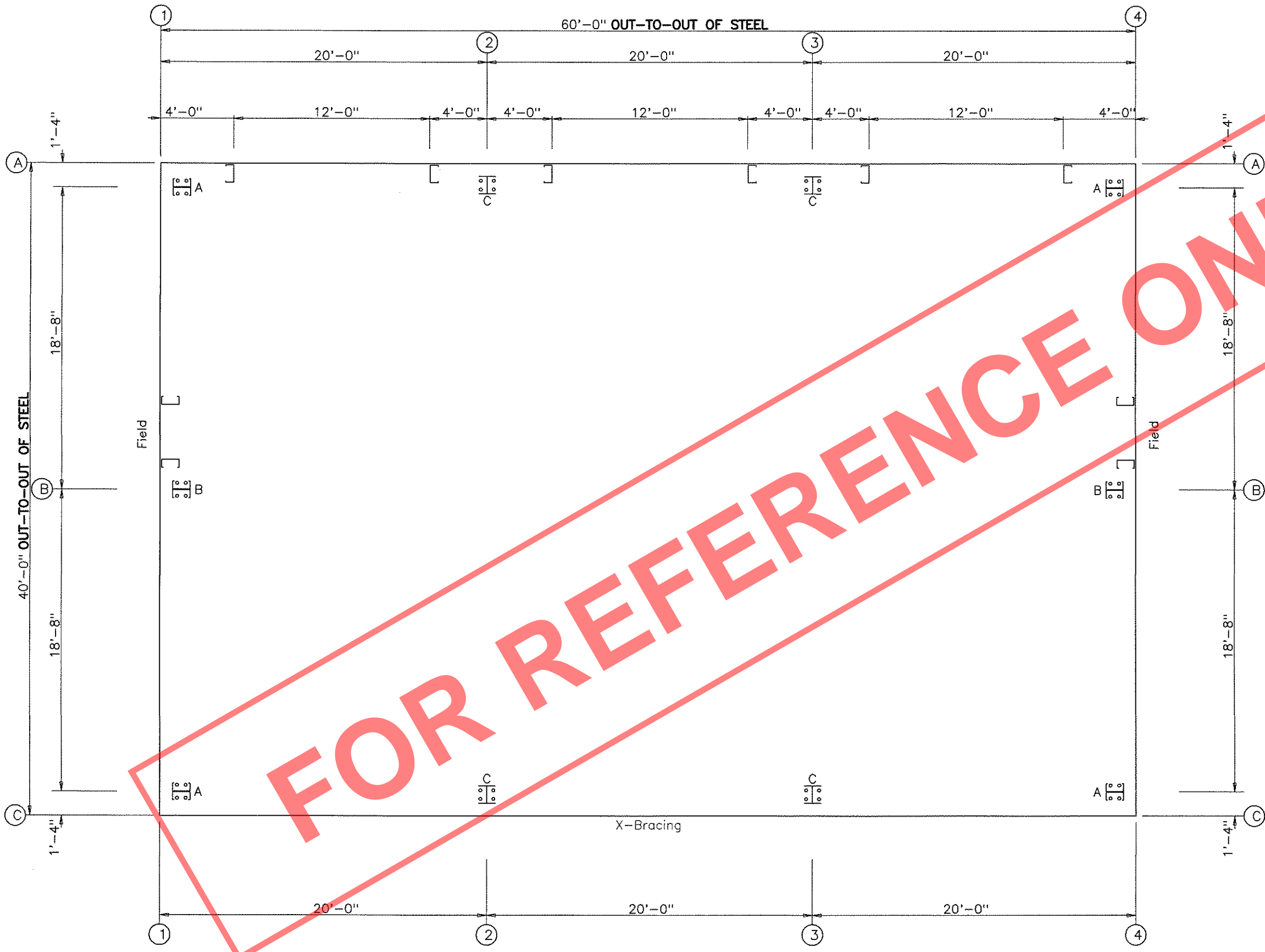
ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
24	Endwall	3/4"	F1554	3.00
16	Frame	3/4"	F1554	3.00

ANCHOR BOLT PLAN

GENERAL NOTES

1. THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
2. METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
3. ALL ANCHOR RODS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AS WELL AS ALL CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY METAL BUILDING MANUFACTURER.
4. THIS DRAWING IS NOT TO SCALE.
5. FINISHED FLOOR ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
6. "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.
7. ANCHOR RODS ARE REQUIRED ONLY IN THE QUANTITIES SPECIFIED. BASEPLATES MAY BE FABRICATED WITH MORE HOLES THAN NEEDED FOR THIS PROJECT.
8. THE ANCHOR BOLT LOCATIONS PROVIDED BY METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. PLEASE NOTE THAT THESE REQUIREMENTS MAY NOT SATISFY ALL ANCHOR BOLT CONCRETE EDGE DISTANCE REQUIREMENTS DEPENDING ON THE DETAILS OF THE FOUNDATION DESIGN. BECAUSE FOUNDATION DESIGN IS NOT WITHIN THE METAL BUILDING MANUFACTURER'S SCOPE OF WORK, IT IS THE RESPONSIBILITY OF THE QUALIFIED PROFESSIONAL DESIGNING THE FOUNDATION TO MAKE CERTAIN THAT SUFFICIENT CONCRETE EDGE DISTANCE IS PROVIDED FOR THE ANCHOR BOLTS IN THE DETAILS OF THE FOUNDATION DESIGN.



FOR REFERENCE ONLY

ANCHOR BOLT PLAN
 NOTE: All Base Plates @ 100'-0" (U.N.)
 o Dia= 3/4"

DATE	7-7-14
ISSUE	7-7-14
DESIGNED BY	MRS. JSA
CHECKED BY	MRS. JSA
PROJECT	IPFW
ANCHOR BOLTS	PERMITS

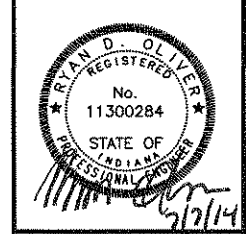
NUCOR BUILDING SYSTEMS
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 PHONE: (435) 919-3100 FAX: (435) 919-3101

PROJECT NAME
IPFW WEST CAMPUS MAINTENANCE BLDG.
FORT WAYNE, IN 46805

CUSTOMER NAME
STREBIG CONSTRUCTION INC.
FORT WAYNE, IN 46802

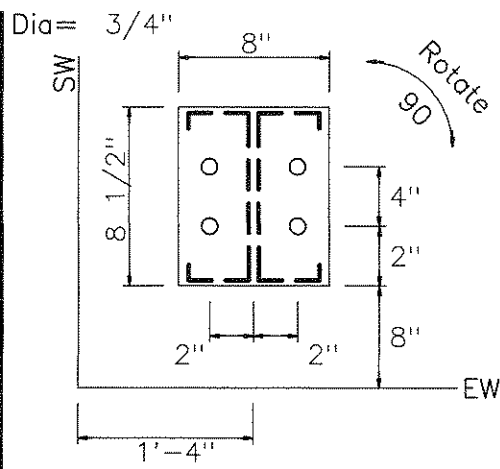
JOB NUMBER
W14J0464A

SHEET TITLE

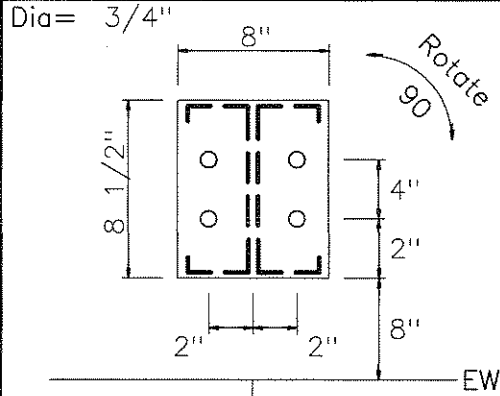


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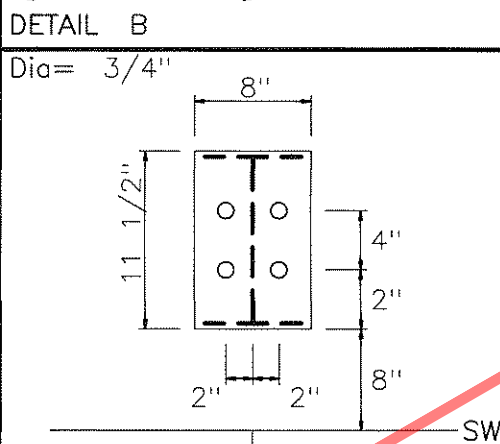
SHEET
F1 of 2



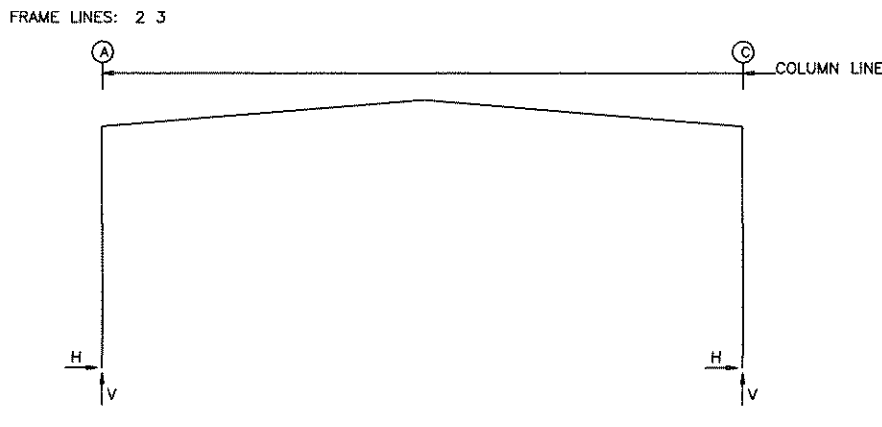
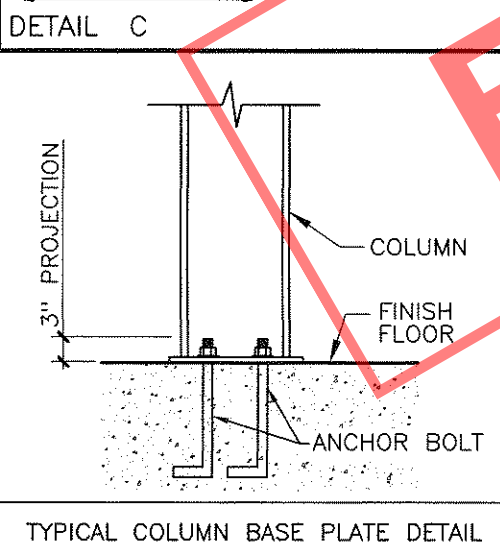
DETAIL A



DETAIL B



DETAIL C

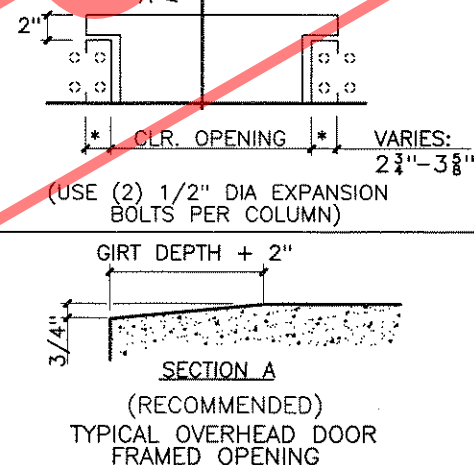


GENERAL NOTES

- ALL LOADING CONDITIONS ARE EXAMINED. THE MAXIMUM AND MINIMUM HORIZONTAL (H) AND VERTICAL (V) REACTIONS AND THE CORRESPONDING VERTICAL (V) OR HORIZONTAL (H) REACTIONS ARE REPORTED.
 - REACTIONS ARE PROVIDED BY LOAD CASE IN ORDER TO AID THE FOUNDATION ENGINEER IN DETERMINING THE APPROPRIATE LOAD FACTORS AND COMBINATION TO BE USED WITH EITHER WORKING STRESS OR ULTIMATE STRENGTH DESIGN METHODS. WIND LOAD CASES ARE GIVEN FOR EACH PRIMARY WIND DIRECTION.
 - FOR ASCE7-10 BASED BUILDING CODES THE UNFACTORED LOAD CASE REACTIONS DUE TO WIND ARE GENERATED USING ULTIMATE DESIGN WIND SPEEDS (Vult).
 - POSITIVE (+) REACTIONS ARE AS SHOWN ABOVE. FOUNDATION LOADS ARE IN OPPOSITE DIRECTIONS.
 - BRACING REACTIONS ARE IN THE PLANE OF THE BRACE WITH THE HORIZONTAL REACTION (H) ACTING AWAY FROM THE BRACED BAY AND THE VERTICAL REACTION (V) ACTING DOWNWARD.
- ***** RIGID FRAME LOAD CASE ABBREVIATIONS: *****
 Wind_L1/Wind_R1: LATERAL WIND FROM THE LEFT/RIGHT, CASE 1
 Wind_L2/Wind_R2: LATERAL WIND FROM THE LEFT/RIGHT, CASE 2
 Wind_Ln1/Wind_Ln2: LONGITUDINAL WIND, CASE 1/2
 Seismic_L/Seismic_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT
 LWIND_L#E/LWIND_R#E: LONGITUDINAL WIND EDGE ZONES
 F#UNB_SL_L/F#UNB_SL_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT
 F#PAT_LL #/F#PAT_SL #: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS
- ***** ENDWALL COLUMN LOAD CASE ABBREVIATIONS: *****
 Collat: COLLATERAL LOAD
 Rafter Wind_L/Rafter Wind_R: LATERAL WIND FROM THE LEFT/RIGHT
 Brace Wind_L/Brace Wind_R: LATERAL WIND FROM THE LEFT/RIGHT
 Wind_P/Wind_S: LONGITUDINAL WIND PRESSURE/SUCTION ON COLUMNS
 Wind_Ln: LONGITUDINAL WIND SUCTION ON ROOF
 Seis_L/Seis_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT
 E#UNB_SL_L/E#UNB_SL_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT
 E#PAT_LL #/E#PAT_SL #: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS

FOUNDATION DESIGN NOTE:

THE ORIENTATION OF THE ANCHOR BOLT DETAILS SHOWN ON THIS PAGE MAY NOT COINCIDE WITH THE ACTUAL COLUMN ORIENTATION SHOWN ON PAGE F1. PLEASE REFERENCE THE SIDEWALL (SW) AND ENDWALL (EW) STEEL LINES SHOWN ON THE ANCHOR BOLT DETAILS WITH THE ANCHOR BOLT PLAN ON PAGE F1 DURING LAYOUT OF COLUMN AND ANCHOR BOLT LOCATIONS.



RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead		Collateral		Live		Snow		Wind_Left1		Wind_Right1	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	A	0.6	1.8	0.8	2.1	3.0	8.4	2.5	7.1	-3.3	-5.2	1.2	-2.2
2*	C	-0.6	1.8	-0.8	2.1	-3.0	8.4	-2.5	7.1	-1.2	-2.2	3.3	-5.2

Frame Line	Column Line	Wind_Left2		Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	A	-3.5	-3.3	1.0	-0.3	-0.5	-4.5	-0.5	-2.6	-0.5	-0.3	0.5	0.3
2*	C	-1.0	-0.3	3.5	-3.3	0.5	-4.5	0.5	-2.6	-0.5	0.3	0.5	-0.3

Frame Line	Column Line	LWIND1_L2E		LWIND1_R2E		LWIND2_L2E		LWIND2_R2E		F1UNB_SL_L		F1UNB_SL_R	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	A	0.0	-0.7	-0.1	-0.1	0.0	-0.7	-0.1	-0.1	2.1	7.2	2.1	3.9
2*	C	0.1	-0.1	0.0	-0.7	0.1	-0.1	0.0	-0.7	-2.1	3.9	-2.1	7.2

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead		Collat		Live		Snow		Wind_Left1		Wind_Right1		Wind_Left2		Wind_Right2		Wind_Press		Wind_Suct		Wind_Long1		Wind_Long2	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
1	A	0.6	0.6	2.3	1.9	-1.5	-0.9	-1.5	-0.9	-0.8	1.0	-1.2	-0.7												
1	B	1.0	1.1	4.3	3.6	-2.3	-2.3	-2.3	-2.3	-2.3	2.3	-2.3	-1.3												
1	C	0.6	0.6	2.3	1.9	-0.9	-1.5	-0.9	-1.5	-0.8	1.0	-1.2	-0.7												

Frm Line	Col Line	Seis		E1UNB_SL_L		E1UNB_SL_R		-LWIND1_L		-LWIND1_R		-LWIND2_L	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
1	A	0.0	0.0	0.0	2.3	0.0	0.6	0.0	-0.3	0.0	0.0	-0.3	
1	B	0.0	0.0	0.0	3.0	0.0	3.0	0.0	-0.1	0.0	-0.1	0.0	-0.1
1	C	0.0	0.0	0.0	0.6	0.0	2.3	0.0	0.0	0.0	-0.3	0.0	

Frm Line	Col Line	-LWIND2_R	
		Horiz	Vert
1	B	0.0	-0.1
1	C	0.0	-0.3

Frm Line	Col Line	Dead		Collat		Live		Snow		Wind_Left1		Wind_Right1		Wind_Left2		Wind_Right2		Wind_Press		Wind_Suct		Wind_Long1		Wind_Long2	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
4	C	0.6	0.6	2.3	1.9	-1.5	-0.9	-1.5	-0.9	-0.8	1.0	-1.2	-0.7												
4	B	1.0	1.1	4.3	3.6	-2.3	-2.3	-2.3	-2.3	-2.3	2.3	-2.3	-1.3												
4	A	0.6	0.6	2.3	1.9	-0.9	-1.5	-0.9	-1.5	-0.8	1.0	-1.2	-0.7												

Frm Line	Col Line	Seis		E2UNB_SL_L		E2UNB_SL_R		-LWIND1_L		-LWIND1_R		-LWIND2_L	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
4	C	0.0	0.0	0.0	2.3	0.0	0.6	0.0	-0.3	0.0	0.0	-0.3	
4	B	0.0	0.0	0.0	3.0	0.0	3.0	0.0	-0.1	0.0	-0.1	0.0	-0.1
4	A	0.0	0.0	0.0	0.6	0.0	2.3	0.0	0.0	0.0	-0.3	0.0	0.0

Frm Line	Col Line	-LWIND2_R	
		Horiz	Vert
4	B	0.0	-0.1
4	A	0.0	-0.3

BUILDING BRACING REACTIONS

Loc	Line	Col Line	± Reactions (k)				Panel Shear (lb/ft)	
			Wind Horiz	Wind Vert	Seismic Horiz	Seismic Vert	Wind	Seis
L_EW	1		Bracing In Roof To Rigid Frame					
E_SW	2,3		3.4	2.2	1.8	1.2		
R_EW	4		Bracing In Roof To Rigid Frame					
B_SW	A		Torsional Bracing Used					

DATE	7-7-14
ISSUE	7-7-14
DESIGNER	MBS
CHECKER	JSA
DATE	7-7-14
ISSUE	7-7-14
DESIGNER	MBS
CHECKER	JSA

ANCHOR BOLTS PERMITS

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 1000 N. MILLS BLVD., BOONVILLE, MO 64616
 PHONE: (417) 819-3100 FAX: (417) 819-3101

PROJECT NAME
IPFW WEST CAMPUS MAINTENANCE BLDG.
FORT WAYNE, IN 46805

CUSTOMER NAME
STREBIG CONSTRUCTION INC.
FORT WAYNE, IN 46802

JOB NUMBER
W14J0464A

SHEET TITLE
W14J0464A

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RYAN D. OLIVER
 REGISTERED ENGINEER
 No. 11300284
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

DATE: 7/7/14

SHEET
F2 of 2



ROOF FRAMING PLAN

ROOF FRAMING PLAN

GENERAL NOTES

1. PLACE TAGGED END OF RAFTERS TOWARDS THE LOW EAWE.
2. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD	CABLE
RDB- = 5/8" ROD	CAA- = 1/4" CABLE
RDC- = 3/4" ROD	CAB- = 3/8" CABLE
RDD- = 7/8" ROD	CAC- = 1/2" CABLE
RDE- = 1" ROD	
RDF- = 1 1/8" ROD	
RDG- = 1 1/4" ROD	
3. PURLIN AND EAWE STRUT CONNECTIONS UTILIZE BOTH A307 AND A325 BOLTS. REFER TO THE DETAILS FOR SPECIFIC USAGE REQUIREMENTS.
4. THIS DRAWING IS NOT TO SCALE.

DATE	7-7-14
REVISED	7-7-14
DESIGNER	TJM
CHECKER	TJM
PROJECT	IPFW
ANCHOR BOLTS	
PERMITS	

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 1000 WATERY LANE, BRIDGEMAN CITY, UT 84302
 PHONE: (435) 919-3100 FAX: (435) 919-3101

PROJECT NAME
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FORT WAYNE, IN 46805
 CUSTOMER NAME
STREBIG CONSTRUCTION INC.
FORT WAYNE, IN 46802

JOB NUMBER
W14J0464A
 SHEET TITLE

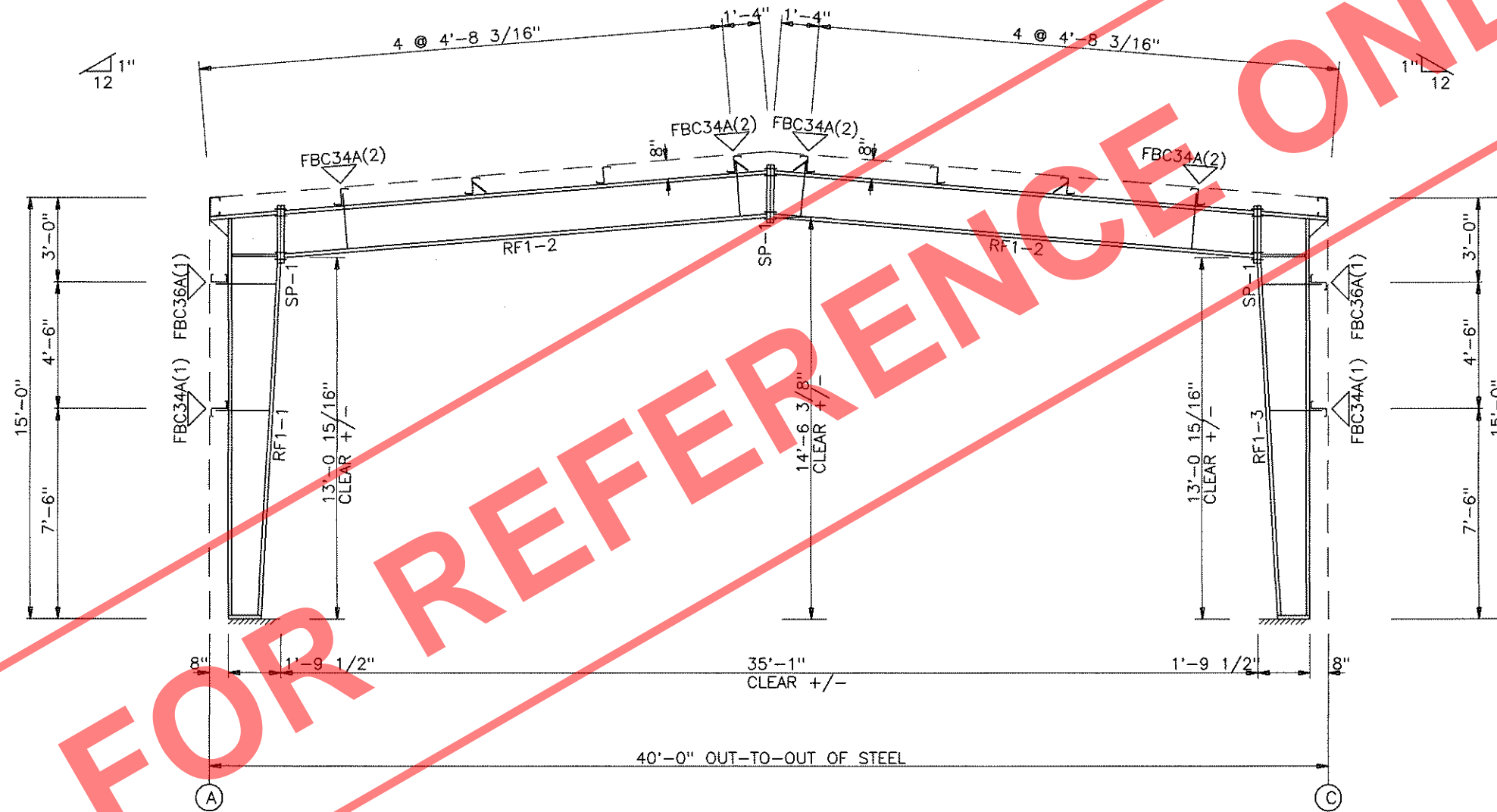
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RYAN D. OLIVER
 No. 11300284
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

SHEET
E1 of 6

SPLICE PLATE & BOLT TABLE										
Mark	Qty		Int	Type	Dia	Length	Width	Thick	Length	
	Top	Bot								
SP-1	4	4	0	A325	0.625	2.25	6"	3/8"	1'-11 1/8"	

MEMBER TABLE								
Mark	Web Depth		Web Plate		Outside Flange		Inside Flange	
	Start	End	Thick	Length	W x Thk	x Length	W x Thk	x Length
RF1-1	11.0	21.0	0.135	153.7	5 x 1/4"	x 172.0	5 x 1/4"	x 154.0
	21.0	21.0	0.164	20.1	5 x 1/4"	x 29.1		
RF1-2	17.0	17.0	0.135	211.8	5 x 1/4"	x 210.3	5 x 1/4"	x 210.3
RF1-3	21.0	21.0	0.164	20.1	5 x 1/4"	x 29.1	5 x 1/4"	x 154.0
	21.0	11.0	0.135	153.7	5 x 1/4"	x 172.0		



RIGID FRAME ELEVATION: FRAME LINES 2 & 3

GENERAL NOTES

- INDICATES FLANGE BRACING LOCATIONS. (1) = ONE SIDE; (2) = TWO SIDES.
- IF FLANGE BRACING IS REQUIRED ON BOTH SIDES OF AN EXPANDABLE RIGID FRAME, THE OPPOSITE SIDE FLANGE BRACES WILL HAVE TO BE INSTALLED AT THE TIME OF FUTURE EXPANSION. THESE FLANGE BRACES HAVE BEEN PROVIDED, AS REQUIRED, FOR THIS FUTURE CONDITION.
- RIGID FRAMES SHALL HAVE 50% OF THEIR BOLTS INSTALLED AND TIGHTENED ON BOTH SIDES OF THE WEB ADJACENT TO EACH FLANGE BEFORE THE HOISTING EQUIPMENT IS RELEASED.

DATE	BY	CHKD	REVISION
7-7-14	J.M.		
7-7-14	J.M.		

ANCHOR BOLTS PERMITS

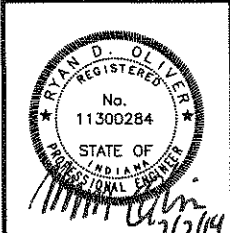
NUSBER
MILWAUKEE STEEL SYSTEMS
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 1050 WATERY LANE, BRIGHAM CITY, UT 84302
 PHONE: (435) 919-3100 FAX: (435) 919-3101

PROJECT NAME
IPFW WEST CAMPUS MAINTENANCE BLDG.
FORT WAYNE, IN 46805

CUSTOMER NAME
STREBIG CONSTRUCTION INC.
FORT WAYNE, IN 46802

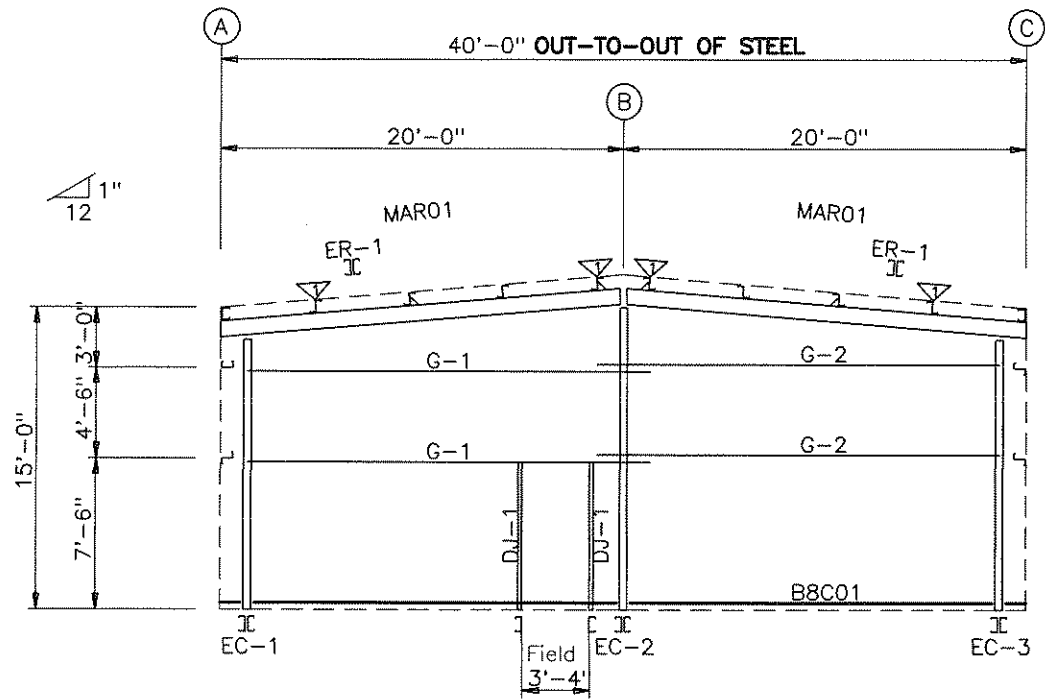
JOB NUMBER
W14-J0464A

SHEET TITLE



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SHEET
E2 of 6



GIRT LAPS

ENDWALL FRAMING: FRAME LINE 1

FOR REFERENCE ONLY

ENDWALL FRAMING PLAN

GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD	CABLE
RDB- = 5/8" ROD	CAA- = 1/4" CABLE
RDC- = 3/4" ROD	CAB- = 3/8" CABLE
RDD- = 7/8" ROD	CAC- = 1/2" CABLE
RDE- = 1" ROD	
RDF- = 1 1/8" ROD	
RDG- = 1 1/4" ROD	
2. ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
3. FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
4. THIS DRAWING IS NOT TO SCALE.

DATE	7-7-14	DATE	7-7-14
ANCHOR BOLTS	MRS JSA	PERMITS	MRS JSA

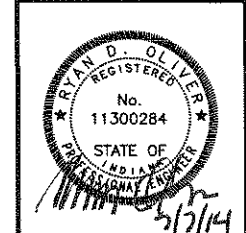
NUCOR BUILDING SYSTEMS
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PROJECT NAME
IPFW WEST CAMPUS MAINTENANCE BLDG.
FORT WAYNE, IN 46805

CUSTOMER NAME
STREBIG CONSTRUCTION INC.
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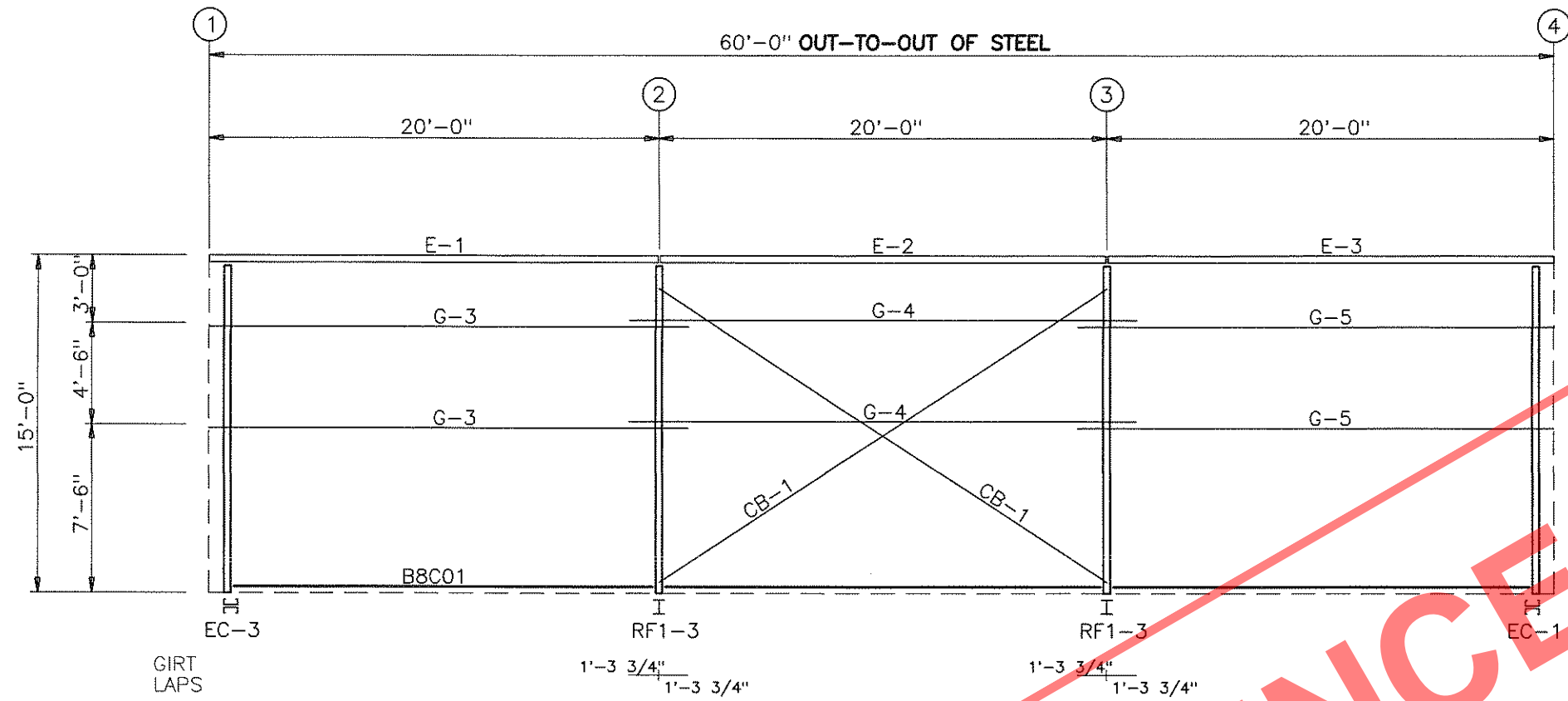
JOB NUMBER
W14J0464A

SHEET TITLE



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SHEET
E3 of 6



SIDEWALL FRAMING: FRAME LINE C

FOR REFERENCE ONLY

SIDEWALL FRAMING PLAN

GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD	CABLE
RDB- = 5/8" ROD	CAA- = 1/4" CABLE
RDC- = 3/4" ROD	CAB- = 3/8" CABLE
RDD- = 7/8" ROD	CAC- = 1/2" CABLE
RDE- = 1" ROD	
RDF- = 1 1/8" ROD	
RDG- = 1 1/4" ROD	

2. ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRTS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.

3. FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.

4. THIS DRAWING IS NOT TO SCALE.

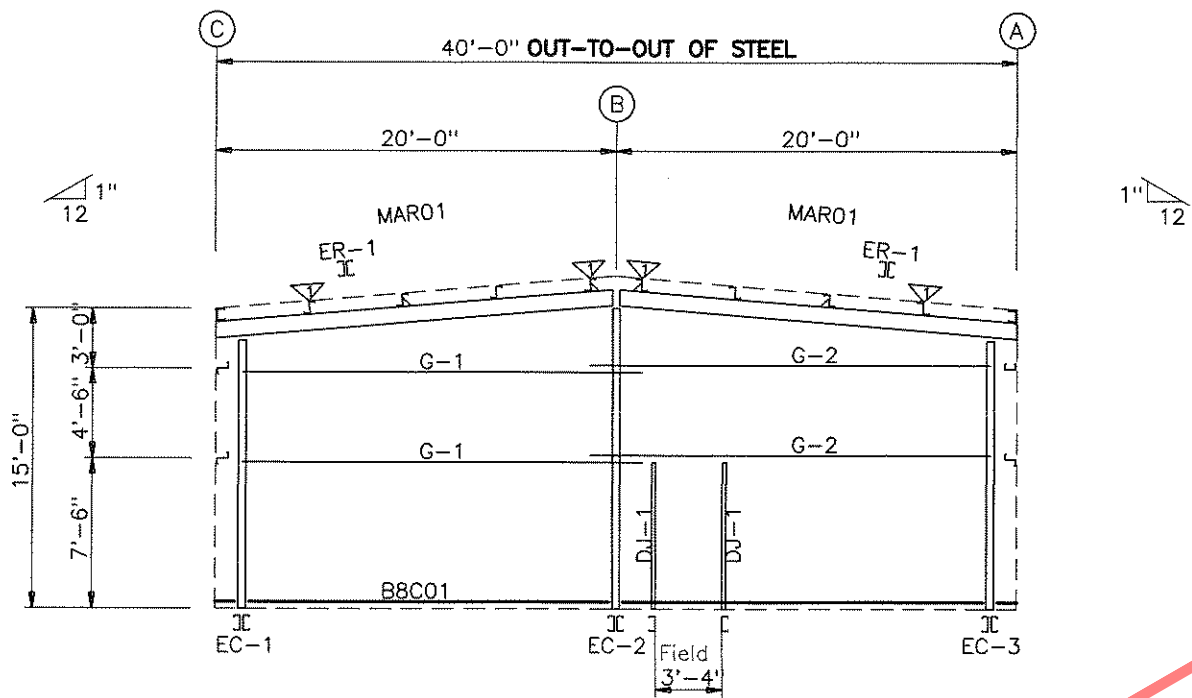
DATE	7-7-14
ISSUE	
ANCHOR BOLTS	
PERMITS	
DESIGNER	MBS JSA TJM
CHECKER	MBS JSA
DATE	7-7-14

NUCOR BUILDING SYSTEMS
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PROJECT NAME: IPFW WEST CAMPUS MAINTENANCE BLDG.
 FORT WAYNE, IN 46805
 CUSTOMER NAME: STREBIG CONSTRUCTION INC.
 FORT WAYNE, IN 46802
 JOB NUMBER: W14J0464A
 SHEET TITLE: E4 of 6

RYAN D. O'LEVER
 REGISTERED PROFESSIONAL ENGINEER
 No. 11300284
 STATE OF INDIANA
 7/7/14

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ENDWALL FRAMING: FRAME LINE 4

FOR REFERENCE ONLY

ENDWALL FRAMING PLAN

GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

RDB-	= 5/8" ROD	CAA-	= 1/4" CABLE
RDC-	= 3/4" ROD	CAB-	= 3/8" CABLE
RDD-	= 7/8" ROD	CAC-	= 1/2" CABLE
RDE-	= 1" ROD		
RDF-	= 1 1/8" ROD		
RDG-	= 1 1/4" ROD		

2. ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.

3. FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.

4. THIS DRAWING IS NOT TO SCALE.

DATE	7-7-14
ISSUE	
ANCHOR BOLTS	MBS JSA T/M
PERMITS	MBS JSA 10/14

NUCOR BUILDING SYSTEMS
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PROJECT NAME
IPFW WEST CAMPUS MAINTENANCE BLDG.
FORT WAYNE, IN 46805

CUSTOMER NAME
STREBIG CONSTRUCTION INC.
FORT WAYNE, IN 46802

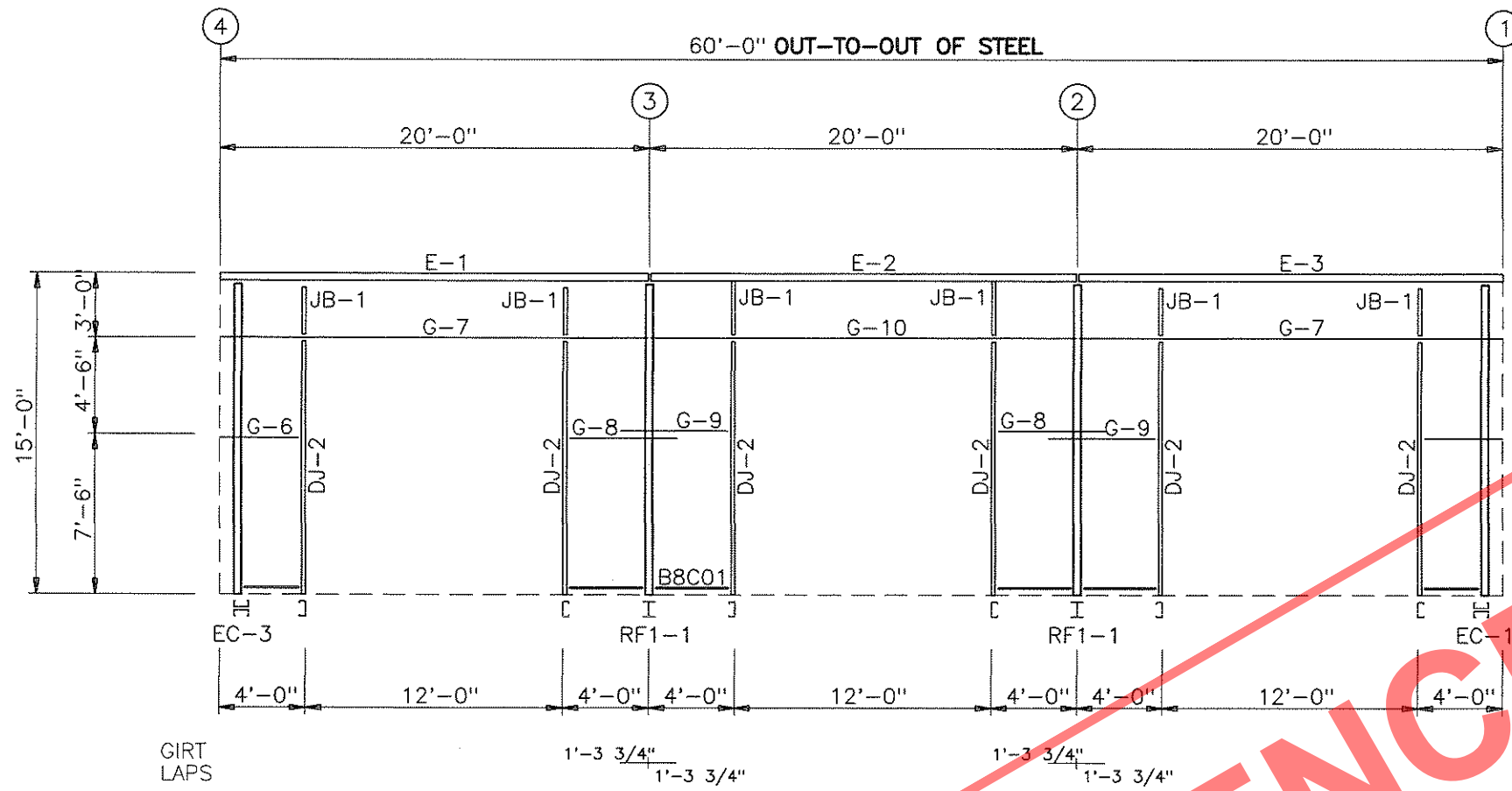
JOB NUMBER
W14J0464A

SHEET TITLE

STATE OF INDIANA
 REGISTERED PROFESSIONAL ENGINEER
 No. 11300284
 RYAN D. OLIVER

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SHEET
E5 of 6



SIDEWALL FRAMING: FRAME LINE A

FOR REFERENCE ONLY

SIDEWALL FRAMING PLAN

GENERAL NOTES

- STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD	CABLE
RDB- = 5/8" ROD	CAA- = 1/4" CABLE
RDC- = 3/4" ROD	CAB- = 3/8" CABLE
RDD- = 7/8" ROD	CAC- = 1/2" CABLE
RDE- = 1" ROD	
RDF- = 1 1/8" ROD	
RDG- = 1 1/4" ROD	
- ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
- FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
- THIS DRAWING IS NOT TO SCALE.

DATE	7-7-14
DESIGNED BY	MBS JSA TIM
CHECKED BY	MBS JSA
PERMITS	

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 1000 WATERY LANE, BRIGHAM CITY, UT 84302
 PHONE: (435) 919-3100 FAX: (435) 919-3101

PROJECT NAME
IPFW WEST CAMPUS MAINTENANCE BLDG.
FORT WAYNE, IN 46805

CUSTOMER NAME
STREBIG CONSTRUCTION INC.
FORT WAYNE, IN 46802

JOB NUMBER
W14J0464A

SHEET TITLE

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RYAN D. OLIVER
 No. 11300284
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 7/6/14

SHEET
E6 of 6

PART 3 EXECUTION (NOT USED)

END OF SECTION



GME[®]

GME TESTING

A  UES Company

Geotechnical Report

GME Project No. G25-123264

**Proposed Maintenance Building
Addition**

**Near 1807 East California Road
Fort Wayne, IN**

January 12, 2026

Prepared For:

Martin Riley Architects & Engineers
221 West Baker Street
Fort Wayne, IN 46802
Attn: Jessica Franke, AIA

Prepared By:

GME Testing
3517 Focus Dr
Fort Wayne, IN 46818





A UES Company

January 12, 2026
G25-123264

Martin Riley Architects & Engineers
221 West Baker Street
Fort Wayne, IN 46802
Attn: Jessica Franke, AIA

REF: SUBSURFACE EXPLORATION AND RECOMMENDATIONS
Proposed Maintenance Building Addition
Near 1807 East California Road
Fort Wayne, IN 46825

Dear Jessica:

In compliance with your recent request, **GME Testing** is pleased to submit this report on our subsurface exploration and recommendations for the design and construction of the proposed maintenance building addition located on Purdue Fort Wayne's campus near Hefner Field in Fort Wayne, Indiana. Our services were performed in accordance with our proposal (GMEP 25-090531) dated September 30, 2025.

SITE CONDITIONS

The Site is located along the northern face of the existing maintenance building. The overall site surface condition can be characterized as relatively level (on the west side of the maintenance building) to gently sloping towards Recreation Road (on the east side of the maintenance building). Additionally, on the east side of the existing maintenance building, a paved area surrounded by a chain-link fence with miscellaneous maintenance equipment was observed. The site was generally grass-covered with sporadic areas of snow.

The Site consists of the existing maintenance building, a driveway, hardscaping areas, overhead and below-ground utilities, etc. The as-built plans for the existing building were not available at this time. It is anticipated that the existing structure is supported by conventional foundations at shallow depths and is performing well from a structural perspective. If any modifications or repairs to the existing building are required, a qualified structural engineer should be retained to assess its current structural condition.

SITE GEOLOGY

According to the USDA Web Soil Survey, near-surface soils at the site consist of Glynwood silt loam and Morley silt loam. A copy of the *Custom Soil Resource Report for Allen County, Indiana*, is included in Appendix B.

PROJECT DESCRIPTION

Based on the available information, we understand that the proposed project will consist of a building addition on the north side of the existing maintenance building. The proposed addition will be a single-story (with no basement) with a slab-on-grade interior. The addition is expected to be used as a garage and storage equipment area.

The structural loading information was unavailable at this time. However, it is anticipated that the maximum column, wall, and floor loadings will be light to moderate and may be in the range of approximately 50 kips/column, 4 kips per linear foot, and 125 psf, respectively. The structural engineer will design and detail the building slabs (i.e., thickness design, jointing, reinforcement).

No topographic data was provided, and neither the planned finished floor elevation nor the existing surface elevations were available. However, the finished floor elevation is expected to match that of the existing structure. The existing surface elevation extracted from the Allen County, Indiana GIS website is approximately El. 780, as shown on the bore logs included in Appendix B for reference only. GME Testing recommends that a professional surveyor determine and confirm the existing site surface elevations.

GME Testing should be contacted to review design information that conflicts with our stated understanding presented in this report. Based on our review of this information, we will determine whether any changes to this report or our recommendations are required.

SUBSURFACE INVESTIGATION

Our field exploration program consisted of drilling two (2) vertical soil test borings to depths of approximately 20 feet below the existing ground surface (bgs) as shown on the borehole logs. GME Testing personnel established the test boring locations in the field based on a site plan. The boring locations presented in Exhibit A and included in Appendix A of this report are approximate. Table 1 summarizes the boring designations.

Table 1: Summary of Boring Location		
Boring Number	Latitude	Longitude
B-1	41.121502	-85.118218
B-2	41.121610	-85.118106

Our subsurface exploration was performed in accordance with the Standard Penetration Test, ASTM D-1586. Representative soils collected using a split spoon sampler. Our laboratory testing program included performing **a)** visual soil classifications according to ASTM D-2487 and ASTM D-2488, **b)** natural moisture content tests according to ASTM D-2216 on all samples, and **c)** unconfined compressive strength tests with calibrated spring hand penetration tests in general accordance with ASTM D-2166.

Surficial Material: The test borings disclosed approximately 4 to 5 inches of topsoil material.

Native Soils: The native soils in boring B-1 and B-2 consisted of clay-type soils (classified as sandy silty clay and silty clay) that extended to the termination depths of the borings. The consistency of the existing clay soils encountered ranged from very stiff to hard and was characterized based on SPT N-values in accordance with ASTM D-1586. However, the soil near the surface in B-2 was classified as medium stiff. The **General Notes** sheet, which follows the boring log included in Appendix B, explains the correlations between consistency and relative density.

Groundwater Measurements: No groundwater was encountered during or after drilling in either test boring B-1 or B-2. The groundwater depths shown on the boring logs reflect groundwater levels **only** for the date on which the borings were drilled. Based upon the engineering characteristics of the encountered soils, trapped “perched” water may be experienced following heavy precipitation.

GEOTECHNICAL RECOMMENDATIONS

Our geotechnical recommendations were developed based on the soil conditions at borings B-1 and B-2 and our understanding of the proposed maintenance building addition. Any significant changes in the building addition configuration, location, loading, or assumed grades should be brought to our attention for further evaluation, as they may affect our conclusions.

Foundation Recommendations

Our findings indicate that the proposed building addition can be supported on conventional foundations, consisting of column (square type) and continuous (strip wall) footings. GME Testing recommends that all footings should bear on approved firm native soils (similar to the very stiff and hard clay soils found beneath 3.5 feet bgs) and/or engineered fill extending from the approved subgrade. The exact depth to firm suitable native soils should be determined at the time of construction by a GME Testing representative. Under no circumstances should new foundations bear on weak soils, undocumented fill materials, or existing foundation backfill material.

If any unsuitable soil is found beneath the footprint of the new addition, then conventional footings should be extended to approved firm native soils, or they may be replaced with a lean concrete mix (i.e., 2,000 psi compressive strength after 28 days). Exhibit B, included in Appendix A of this report, provides this illustration.

Conventional foundations prepared as discussed above can be designed for maximum net allowable soil bearing pressures of **3,000 pounds per square foot (psf)** for column (square type) and **2,500 psf** for wall (strip type) footings.

When using net pressure, the weight of the footing and backfill over the footing, including the weight of the floor slab, need not be considered. Hence, only loads applied at or above the finished floor must be used to dimension the footings.

New fill soil below, above, and surrounding footings shall consist of approved materials, and then placed and compacted in accordance with this report.

Care must be taken when positioning new foundations for the proposed building addition adjacent to existing foundations to avoid overlapping zones of influence and to prevent compromising the existing foundations due to excavation below their bearing elevations. Depending on the excavation depth, proximity to the existing structure, and other factors, it may be necessary to provide bracing or shoring for the excavation sides.

Provided that our recommendations in this report and project specifications are followed, total foundation settlements should not exceed 1 inch with differential settlements of up to ½ inch.

Careful field control and proper footing proportions will contribute substantially to minimizing total and differential settlements. Therefore, it is recommended that GME Testing be retained to inspect the bottom of the footings. Field control and proper footing proportions will contribute substantially to reducing total and differential settlements.

Foundation Frost Depth

All approved foundations resting on competent-bearing soils must be protected during and post-construction.

All exterior footings and footings in unheated areas should be located at a depth of 3.5 feet below the final exterior grade for frost protection. Interior footings in heated areas can be located at nominal depths below the finished floor, provided that they bear on firm materials and provided that other recommendations in this report are followed.

Seismicity Classification

A seismic site class “D” may be applied for this project, with a seismic report included in Appendix B. The design parameters presented in Table 2 are based on this classification. The ASCE 7-10 standard utilizes a site profile extending to a depth of 100 feet for seismic site classification. Since the borings for this project did not reach that depth, the site properties below 100 feet were estimated based on our experience and understanding of the geologic conditions in the area

Table 2: Seismicity Classification Parameters	
Description	Value
*ASCE 7-10 Site Classification	D
Site Latitude	41.121554
Site Longitude	-85.11813
Risk Category	III
Seismic Design Category	B
S _s	0.116g
S ₁	0.061g
S _{Ds}	0.123
S _{D1}	0.097

* *Note:* The updated ASCE 7-22 seismic classification parameters can also be available and provided, if needed, upon request.

Ground-Supported Floor Slabs

The floor slabs should be prepared as discussed in the **Site Subgrade Preparation Recommendations** section of this report. A qualified structural engineer should design the floor slabs for the anticipated loadings. After the building pad is properly prepared but prior to placing concrete slabs, the subgrade should be subjected to proofrolling observation to determine if any areas that require remediation are present. The floor slabs may be constructed as slabs-on-grade, supported by natural, firm soils or well-compacted engineered fill material.

We recommend that compacted granular material be placed beneath all floor slabs consisting of approximately 6 inches or more of free-draining granular material (i.e., crushed limestone meeting INDOT No. 53 gradation requirements or fine sand and gravel with 10 percent passing the No. 200 Sieve).

The floor slab subgrade should be compacted to achieve 95 percent or more, as determined by ASTM D-1557. The slab subgrade should be adequately protected from inclement weather and disturbance by construction traffic.

The use of a vapor retarder should be considered when slabs will receive moisture-sensitive or impervious floor coverings (e.g., wood, tile, or carpet), when installed in humidity-controlled environments, or when supporting moisture-sensitive equipment. In such cases, the slab designer should refer to ACI 302 and ACI 360 for proper vapor retarder selection, placement, and related precautions.

GENERAL EARTHWORK AND CONSTRUCTION RECOMMENDATIONS

Site Preparation Recommendations

If new grade-raise fill will be planned, GME Testing should inspect the exposed subgrade before fill is placed. This is to check that all unsuitable materials, such as vegetation, topsoil, and compressible soils, have been properly removed by the earth contractor. The exposed subgrade should then be proof-rolled and approved prior to placing compacted engineered fill to restore stability and support construction.

Localized instability (e.g., pumping or yielding) may occur following the wet season, and should be corrected by aeration, compaction, or removal and replacement with engineered fill. While the subgrade soils are expected to be workable, adverse weather or heavy construction traffic may reduce workability; if so, scarification and drying may be required.

Construction traffic should be limited to designated haul routes, and grading and fill placement should be carefully performed to avoid creating unstable areas.

Engineered Fill

New, approved engineered fill materials should be compacted using suitable equipment to a dry density of 95 percent or more of the maximum density obtained in accordance with ASTM D-1557. The compaction moisture content should generally be within 2 percent of the optimum.

To achieve the recommended compaction limit of the structural fill, the fill material should be placed and compacted in layers not exceeding 8 inches in loose thickness (the loose lift thickness should be reduced to 6 inches when utilizing small hand compactors). GME Testing should be retained to provide continuous inspection and documentation of the earthwork process.

Temporary Excavations and Trenches

All excavation and trenching operations shall comply with OSHA 29 CFR 1926, Subpart P. Excavations shall be monitored by a qualified "Competent Person," and appropriate sloping or shoring shall be provided to prevent cave-ins.

Surface Water

Maintaining positive drainage of surface water away from the structure's foundations is essential for preventing water infiltration and potential damage to the structure. Surface water, including downspout discharge, should be directed toward designated outfalls, such as streets or drainage areas, to ensure proper runoff management.

Quality Control Testing

We recommend that a GME Testing geotechnical engineer or designee be retained to continuously evaluate the footings during installation and test the subgrade and footing excavations before forming and placing steel or concrete. This is to ensure that suitable materials are present below the footings and slabs. Concrete strength and consistency tests should also be carried out in accordance with the project specifications.

GENERAL COMMENTS

This field evaluation, laboratory testing, and geotechnical analyses presented in this geotechnical investigation report have been conducted in general accordance with current practice and the standard of care exercised by geotechnical consultants performing similar tasks in the project area. Although individual test borings are representative of the subsurface conditions at the boring locations on the dates drilled, they are not necessarily representative of the subsurface conditions between boring locations or subsurface conditions during other seasons of the year.

The lines of demarcation shown on the logs represent approximate boundaries between the various classifications. The stratification of soils, as shown on the accompanying test borehole logs, represents the soil conditions at the drilled borehole locations, and variations may occur between the boreholes. In-situ strata changes could occur gradually or at different levels. Also, it should be noted that the boreholes depict conditions at the particular locations and times indicated.

The report was prepared by GME Testing solely for the use of the Client in accordance with an executed contract. The Client's use of or reliance on this report is limited by the terms and conditions of the contract and by the qualifications and limitations stated in the report. It is also acknowledged that the Client's use of and reliance of this report is limited for reasons which include actual site conditions that may change with time; hidden conditions, not discoverable within the scope of the assessment may exist at the site; and the scope of the investigation may have been limited by time, budget and other constraints imposed by the client.

Neither the report nor its contents, conclusions, or recommendations are intended for the use of any party other than the Client. GME Testing and the Client assume no liability for any reliance placed on this report by such party. The rights of the client under contract may not be assigned to any person or entity, without the consent of GME Testing which shall not be unreasonably withheld.

Our services have been provided consistent with its professional standards of care. No other warranties are made, either expressed or implied.

Should you have any questions related to this report, please contact us at your convenience.

Sincerely,
GME Testing



Rami M. Anabtawi, P.E., BC.GE



S M Naziur Mahmud, E.I.T.

APPENDIX A

I. FIELD EXPLORATION

Drilling and Sampling Procedures

The test borings were drilled using conventional augers to advance the holes and representative samples of the soils were obtained employing split-barrel sampling techniques in accordance with ASTM procedures D-1586-84. After completion of the borings and water level readings, the auger holes were backfilled with auger cuttings.

The description and depths of soil strata encountered and levels at which samples were recovered are indicated on the accompanying borehole log sheets in the Appendix B. In the column "Soil/Material Description" on the drill borehole log, the horizontal lines represent stratum changes. A solid line represents an observed change, and a dashed line represents an estimated change. An explanation of the symbols and terms used on the boring log sheets is given in Appendix B of this report.

Field Tests and Measurements

Standard Penetration Test: During the sampling procedures, Standard Penetration Test (SPT) was performed at regular intervals through the depth of the borings. The SPT value ("N"-value) is defined as the number of blows required to advance a 2-inch O.D., split-barrel sampler a distance of one foot by a 140-pound hammer falling 30-inches. These values provide a useful preliminary indication of the consistency or relative density of most soil deposits and are included on the Borehole Logs in Appendix B.

Water Level Measurements: Groundwater level observations were made in the boring holes during and upon completion of the boring operations. The groundwater level measurements are noted on the boring logs presented herein.

All recovered samples were returned to GME Testing laboratory for visual examination and subsequent laboratory testing.

II. LABORATORY TESTING

Selected soil samples obtained from the drilling and sampling program were tested in the laboratory to evaluate additional pertinent engineering characteristics of the foundation materials necessary in estimating the engineering properties of these materials.

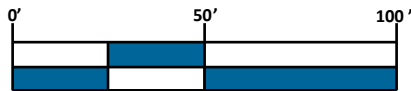
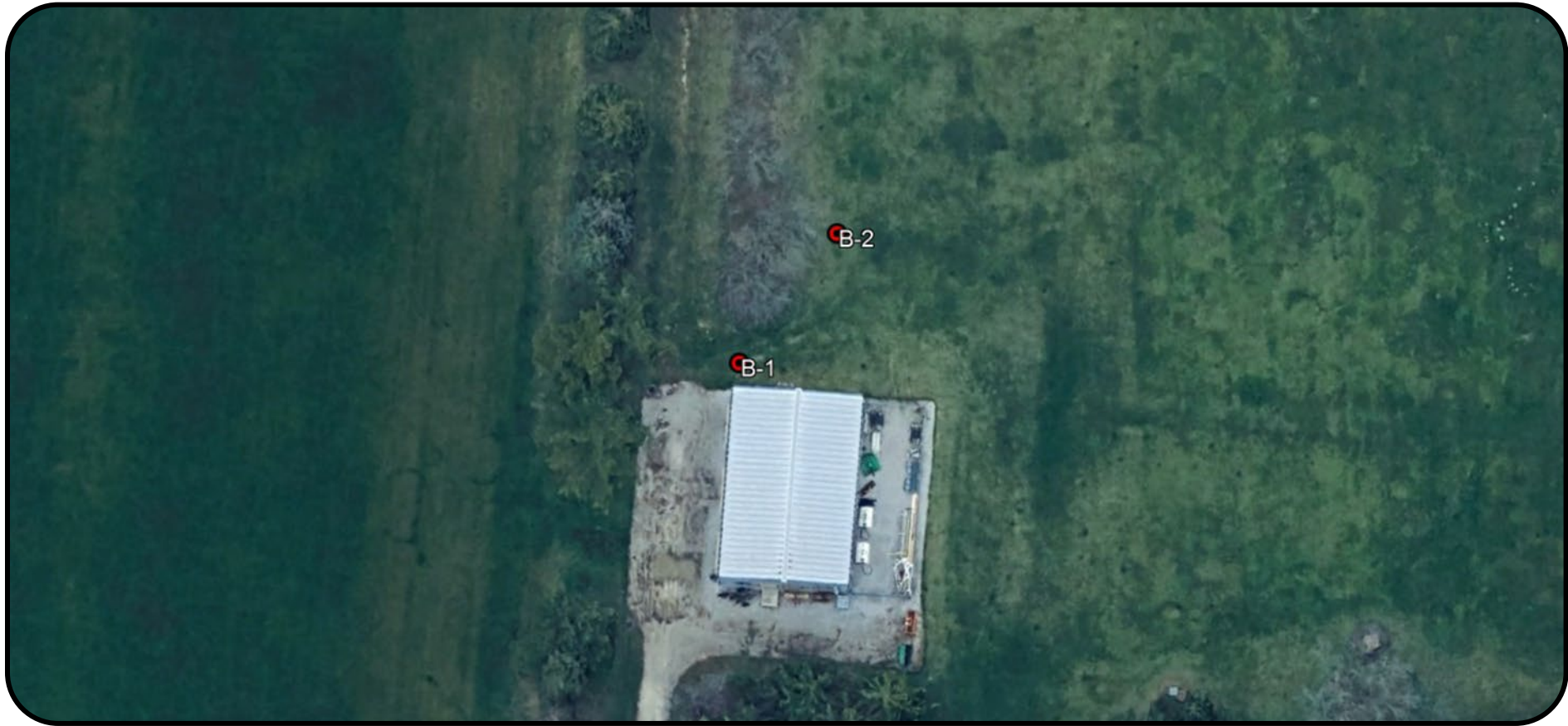
Soil Laboratory Tests and Measurements

Visual Classification: All samples were visually classified by a geotechnical engineer in general accordance with ASTM D-2488, and on the Borehole Logs, which are located in Appendix B of this report.

Moisture Content Tests: The natural moisture content of selected samples was determined by ASTM method D-2216 and is recorded on the Borehole Logs as a percentage of dry weight of soil under the “MC”.

Hand Penetration Tests: Samples of cohesive soils obtained from the split spoon sampler were tested with a calibrated hand penetrometer to aid in evaluating the soil strength characteristics. The results from this testing are tabulated on the Borehole Logs under the heading “Q_P”.

Unconfined Compressive Strength Tests: The undrained shear strengths of the cohesive soils were evaluated utilizing unconfined compressive tests on specimens obtained from the split-barrel and/or thin wall tube sampler. The values of strength tests performed on soil samples obtained from the split-barrel sampler are considered approximate recognizing that the sampler provides a representative but somewhat disturbed sample. The test results are tabulated on the Borehole Logs under the heading “Q_u”.



GRAPHIC SCALE: 1" = 50'

LEGEND

 APPROXIMATE BORING LOCATION

NOTE:

1. AERIAL IMAGE TAKEN FROM GOOGLE EARTH WITH AN IMAGE DATE OF 04/06/2024.



EXHIBIT A

BORING LOCATION DIAGRAM

Proposed Maintenance Building Addition Near 1807 East California Road, Fort Wayne, IN

No.	Revision Date	Date: 1/12/26
		Prepared By: JA
		Scale: AS NOTED
		Client: Martin Riley Architects & Engineers
		Project: G25-012742

APPENDIX B

GENERAL NOTES

SAMPLE IDENTIFICATION

Visual soil classifications are made in general accordance with the United States Soil Classification System on the basis of textural and particle size categorization, and various soil behavior and characteristics. Visual classifications should be made by appropriate laboratory testing when more exact soil identification is required to satisfy specific project applications criteria.

RELATIVE PROPORTIONS OF COHESIONLESS SOILS

<u>Term</u>	<u>Defining Range by % of Weight</u>
Trace	1-10 %
Little	11-20 %
Some	21-35 %
And	36-50 %

WATER LEVEL MEASUREMENT

NE	No Water Encountered
BF	Backfilled upon Completion

ORGANIC CONTENT BY COMBUSTION METHOD

<u>Soil Description</u>	<u>LOI</u>
w/ organic matter	4-15 %
Organic Soil (A-8)	16-30 %
Peat (A-8)	More than 30%

LABORATORY TESTS

Qp	Penetrometer Reading, tsf
Qu	Unconfined Strength, tsf
MC	Moisture Content, %
LL	Liquid Limit, %
PL	Plastic Limit, %
PI	Plastic Index
SL	Shrinkage Limit, %
pH	Measure of Soil Alkalinity/Acidity
γ	Dry Unit Weight, pcf
LOI	Loss of Ignition, %

DRILLING AND SAMPLING SYMBOLS

AS	Auger Sample
BS	Bag Sample
PID	Photo ionization Detector (Hnu meter) volatile vapor level,(PPM)
COA	Clean-Out Auger
CS	Continuous Sampling
FA	Flight Auger
HA	Hand Auger
HAS	Hollow Stem Auger
NR	No Recovery
PT	3" O.D. Piston Tube Sample
RB	Rock Bit
RC	Rock Coring
REC	Recovery
RQD	Rock Quality Designation
RS	Rock Sounding
S	Soil Sounding
SS	2" O.D. Split-Barrel Sample
2ST	2" O.D. Tin-Walled Tube Sample
3ST	3" O.D. Thin-Walled Tube Sample
VS	Vane Shear Test
DB	Diamond Bit
WS	Wash Sample
RB	Roller Bit
ST	Shelby Tube, 2" O.D. or 3" O.D.
CB	Carbide Bit
WOH	Weight of the Hammer

GRAIN SIZE TERMINOLOGY

RELATIVE DENSITY

CONSISTENCY

PLASTICITY

<u>Soil fraction</u>	<u>Particle size</u>	<u>Us standard sieve size</u>	<u>Term</u>	<u>"N" Value</u>	<u>Term</u>	<u>"N" Value</u>	<u>Term</u>	<u>Plastic Index</u>
Boulders	larger than 75 mm	Larger than 3"	Very Loose	0-5	Very Soft	0-3	None to Slight	0-4
Gravel	2mm to 75 mm	#10 to 75 mm	Loose	6-10	Soft	4-5	Slight	5-7
Coarse Sand	0.425 mm to 2 mm	#40 to #10	Medium Dense	11-30	Medium Stiff	6-10	Medium	8-22
Fine Sand	0.075mm to 0.425 mm	#200 to #40	Dense	31-50	Stiff	11-15	High/Very High	Over 22
Silt	0.002 mm to 0.075 mm	Smaller than #200	Very Dense	51+	Very Stiff	16-30		
Clay	Smaller than 0.002 mm	Smaller than #200			Hard	31+		

Note(s):

The penetration resistance, "N" Value, is the summation of the number of blows required to effect two successive 6-inch penetrations of the 2-inch split-barrel sampler. The sampler is driven with a 140-lb. weight falling 30-inches and is seated to a depth of 6-inches before commencing the standard penetration test.

Water level measurements shown on the boring logs represent conditions at the time indicated and may not reflect static levels, especially in cohesive soils




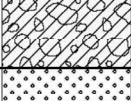

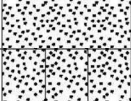

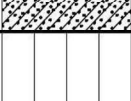
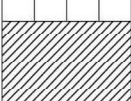
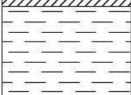


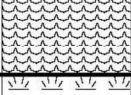
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SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		CLEAN SANDS (LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
		SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
		SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		CH	INORGANIC CLAYS OF HIGH PLASTICITY
		SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

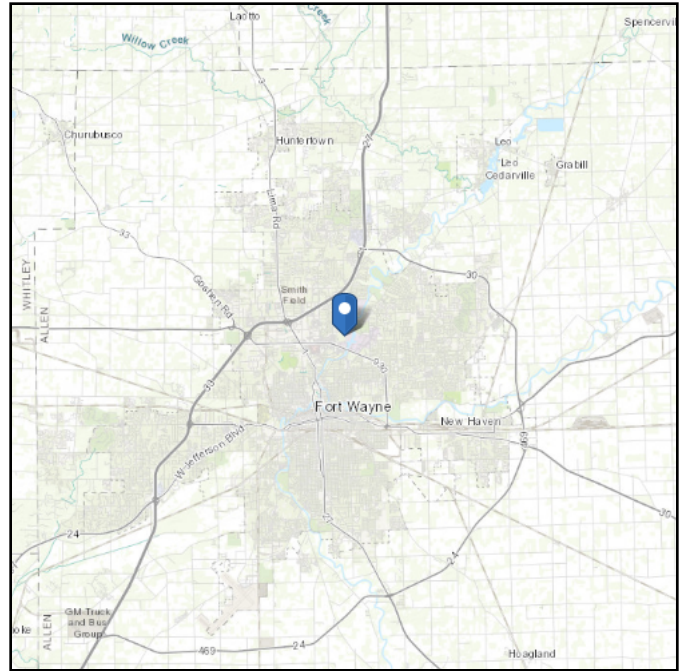
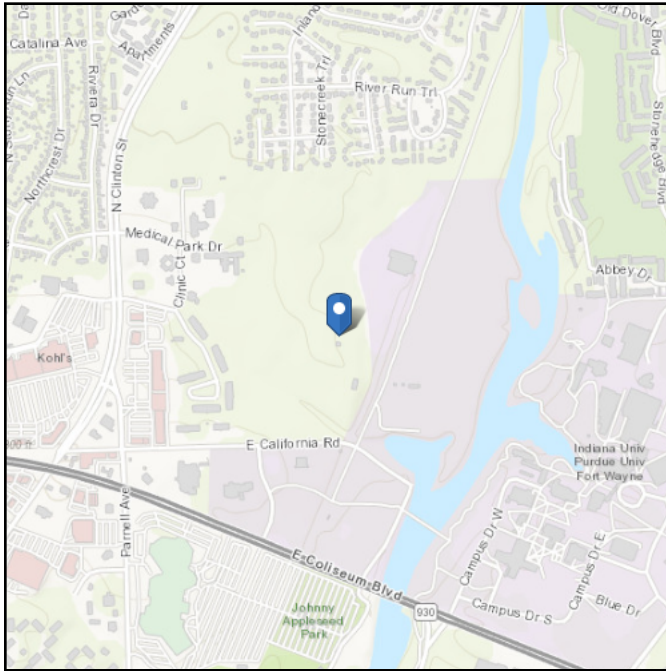
NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

ASCE Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: III
Soil Class: D - Stiff Soil

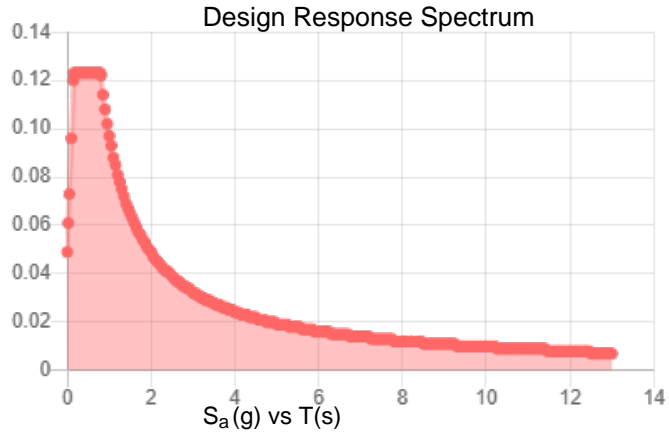
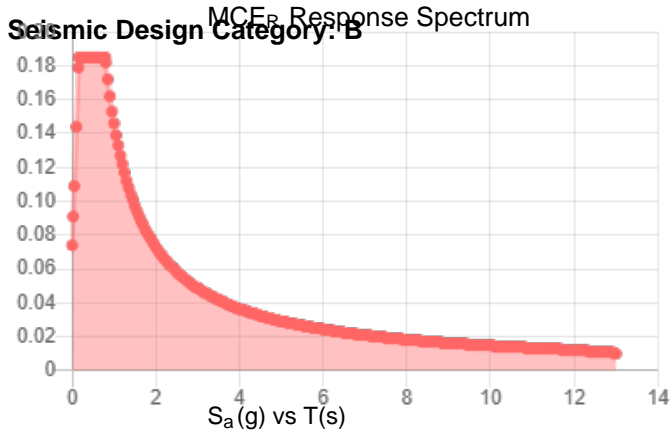
Latitude: 41.121554
Longitude: -85.11813
Elevation: 780.1280434024168 ft
(NAVD 88)



Site Soil Class: D - Stiff Soil

Results:

S_s :	0.116	S_{D1} :	0.097
S_1 :	0.061	T_L :	12
F_a :	1.6	PGA :	0.055
F_v :	2.4	PGA _M :	0.087
S_{MS} :	0.185	F_{PGA} :	1.6
S_{M1} :	0.146	I_e :	1.25
S_{DS} :	0.123		



Data Accessed: Tue Dec 23 2025

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

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NRCS

Natural
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A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Allen County, Indiana



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

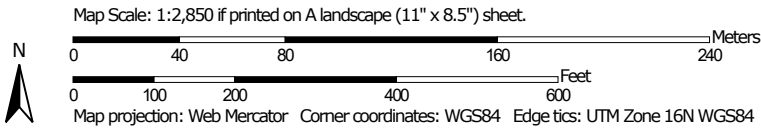
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map




Soil Map may not be valid at this scale.




MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils







 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Allen County, Indiana
 Survey Area Data: Version 27, Sep 17, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 18, 2022—Jun 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Es	Eel silt loam, 0 to 2 percent slopes, frequently flooded	4.0	11.3%
McA	Martinsville loam, 0 to 2 percent slopes	0.7	1.9%
MfA	Martinsville silt loam, 0 to 2 percent slopes	10.5	29.7%
MrB	Glynwood silt loam, 2 to 6 percent slopes	1.8	5.1%
MrB2	Glynwood silt loam, 2 to 6 percent slopes, eroded	9.7	27.5%
MrC2	Morley silt loam, 6 to 12 percent slopes, eroded	3.7	10.6%
RIB2	Rawson loam, 2 to 6 percent slopes, moderately eroded	1.4	4.0%
Ro	Rensselaer silt loam	3.5	9.9%
Totals for Area of Interest		35.2	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a

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given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Allen County, Indiana

Es—Eel silt loam, 0 to 2 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 2z6cw

Elevation: 440 to 1,280 feet

Mean annual precipitation: 37 to 46 inches

Mean annual air temperature: 48 to 55 degrees F

Frost-free period: 145 to 180 days

Farmland classification: Prime farmland if protected from flooding or not frequently flooded during the growing season

Map Unit Composition

Eel, frequently flooded, and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Eel, Frequently Flooded

Setting

Landform: Flood plains

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Loamy alluvium

Typical profile

Ap - 0 to 9 inches: silt loam

Bw1 - 9 to 15 inches: silt loam

Bw2 - 15 to 53 inches: silt loam

Cg - 53 to 72 inches: stratified sandy loam to silty clay loam

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)

Depth to water table: About 15 to 24 inches

Frequency of flooding: Frequent

Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Very high (about 12.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: A/D

Ecological site: F111XB204IN - Dry Alluvium Forest

Hydric soil rating: No

Minor Components

Genesee, occasionally flooded

Percent of map unit: 10 percent
Landform: Flood-plain steps, natural levees
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Shoals, occasionally flooded

Percent of map unit: 6 percent
Landform: Flood-plain steps
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Sloan, occasionally ponded

Percent of map unit: 4 percent
Landform: Depressions
Landform position (three-dimensional): Dip
Down-slope shape: Linear
Across-slope shape: Concave
Hydric soil rating: Yes

McA—Martinsville loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 5jd3
Elevation: 600 to 1,250 feet
Mean annual precipitation: 36 to 43 inches
Mean annual air temperature: 48 to 54 degrees F
Frost-free period: 150 to 180 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Martinsville and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Martinsville

Setting

Landform: Outwash plains, lake plains, stream terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy outwash

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Typical profile

Ap - 0 to 8 inches: loam
Bt1 - 8 to 17 inches: sandy clay loam
Bt2 - 17 to 43 inches: sandy clay loam
BC - 43 to 53 inches: sandy loam
C - 53 to 80 inches: stratified sand to silt loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Available water supply, 0 to 60 inches: High (about 10.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 1
Hydrologic Soil Group: B
Ecological site: F111XA015IN - Dry Outwash Upland, F111XB404IN - Dry
Outwash Upland
Hydric soil rating: No

Minor Components

Digby

Percent of map unit: 5 percent
Landform: Glacial drainage channels, outwash plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: F111XB403IN - Outwash Upland
Hydric soil rating: No

Haney

Percent of map unit: 5 percent
Landform: Glacial drainage channels, outwash plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: F111XB404IN - Dry Outwash Upland
Hydric soil rating: No

Williamstown

Percent of map unit: 5 percent
Landform: Till plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear

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Across-slope shape: Linear
Ecological site: F111XE503IN - Till Ridge
Hydric soil rating: No

Wawaka

Percent of map unit: 5 percent
Landform: Till plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

MfA—Martinsville silt loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 5jd9
Elevation: 640 to 1,150 feet
Mean annual precipitation: 34 to 39 inches
Mean annual air temperature: 47 to 52 degrees F
Frost-free period: 165 to 175 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Martinsville and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Martinsville

Setting

Landform: Outwash plains, lake plains, stream terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy outwash

Typical profile

Ap - 0 to 9 inches: silt loam
E - 9 to 13 inches: silt loam
Bt1,Bt2 - 13 to 35 inches: clay loam
BC - 35 to 48 inches: fine sandy loam
C - 48 to 58 inches: stratified silt loam to sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low

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Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 45 percent

Available water supply, 0 to 60 inches: High (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 1

Hydrologic Soil Group: B

Ecological site: F111XB404IN - Dry Outwash Upland

Hydric soil rating: No

Minor Components

Rensselaer

Percent of map unit: 10 percent

Landform: Depressions

Hydric soil rating: Yes

MrB—Glynwood silt loam, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 2v4bs

Elevation: 700 to 1,000 feet

Mean annual precipitation: 34 to 42 inches

Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 140 to 180 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Glynwood and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Glynwood

Setting

Landform: Ground moraines on till plains, end moraines on till plains

Landform position (two-dimensional): Shoulder, backslope, summit

Landform position (three-dimensional): Nose slope, side slope, crest

Down-slope shape: Convex, linear

Across-slope shape: Linear, convex

Parent material: Wisconsin till derived from limestone and shale

Typical profile

Ap - 0 to 9 inches: silt loam

Bt - 9 to 29 inches: clay

BC - 29 to 34 inches: clay loam

Custom Soil Resource Report

Cd - 34 to 79 inches: clay loam

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: 28 to 45 inches to densic material

Drainage class: Moderately well drained

Runoff class: High

*Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.20 in/hr)*

Depth to water table: About 12 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 35 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 5.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: D

Ecological site: F111XE503IN - Till Ridge

Hydric soil rating: No

Minor Components

Rawson

Percent of map unit: 6 percent

Landform: Ground moraines on till plains, end moraines on till plains

Landform position (two-dimensional): Shoulder, backslope, summit

Landform position (three-dimensional): Nose slope, side slope, crest

Down-slope shape: Convex, linear

Across-slope shape: Linear, convex

Ecological site: F111XE503IN - Till Ridge

Hydric soil rating: No

Blount

Percent of map unit: 5 percent

Landform: Ground moraines on till plains, end moraines on till plains

Landform position (two-dimensional): Summit, backslope, footslope

Landform position (three-dimensional): Interfluvium

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: F111XB502IN - Wet Till Ridge

Hydric soil rating: No

Pewamo

Percent of map unit: 4 percent

Landform: Ground moraines on till plains

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: F111XB501IN - Till Depression

Hydric soil rating: Yes

MrB2—Glynwood silt loam, 2 to 6 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2t6lq
Elevation: 700 to 1,320 feet
Mean annual precipitation: 34 to 42 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 140 to 180 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Glynwood and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Glynwood

Setting

Landform: Ground moraines on till plains, end moraines on till plains
Landform position (two-dimensional): Shoulder, backslope, summit
Landform position (three-dimensional): Nose slope, side slope
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Parent material: Wisconsin till derived from limestone and shale

Typical profile

Ap - 0 to 7 inches: silt loam
Bt - 7 to 25 inches: clay
BC - 25 to 29 inches: clay loam
Cd - 29 to 79 inches: clay loam

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: 24 to 42 inches to densic material
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.20 in/hr)
Depth to water table: About 12 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: D
Ecological site: F111XE503IN - Till Ridge

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Hydric soil rating: No

Minor Components

Rawson

Percent of map unit: 6 percent

Landform: End moraines on till plains, ground moraines on till plains

Landform position (two-dimensional): Shoulder, backslope, summit

Landform position (three-dimensional): Side slope, crest, nose slope

Down-slope shape: Convex, linear

Across-slope shape: Linear, convex

Ecological site: F111XE503IN - Till Ridge

Hydric soil rating: No

Blount

Percent of map unit: 5 percent

Landform: Ground moraines on till plains, end moraines on till plains

Landform position (two-dimensional): Summit, backslope, footslope

Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: F111XB502IN - Wet Till Ridge

Hydric soil rating: No

Pewamo

Percent of map unit: 4 percent

Landform: Ground moraines on till plains, end moraines on till plains

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: F111XB501IN - Till Depression

Hydric soil rating: Yes

MrC2—Morley silt loam, 6 to 12 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2wvhb

Elevation: 660 to 1,120 feet

Mean annual precipitation: 37 to 40 inches

Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 150 to 170 days

Farmland classification: Not prime farmland

Map Unit Composition

Morley and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Morley

Setting

Landform: Moraines

Landform position (two-dimensional): Shoulder, backslope

Landform position (three-dimensional): Nose slope, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Silty loess over wisconsin till derived from limestone and shale

Typical profile

Ap - 0 to 8 inches: silt loam

Bt1 - 8 to 17 inches: silty clay

Bt2 - 17 to 28 inches: clay

BC - 28 to 33 inches: clay loam

Cd - 33 to 79 inches: clay loam

Properties and qualities

Slope: 6 to 12 percent

Depth to restrictive feature: 24 to 38 inches to densic material

Drainage class: Moderately well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.20 in/hr)

Depth to water table: About 24 to 42 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 5.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: F111XE503IN - Till Ridge

Hydric soil rating: No

Minor Components

Glynwood

Percent of map unit: 7 percent

Landform: Moraines

Landform position (two-dimensional): Shoulder, backslope

Landform position (three-dimensional): Nose slope, side slope

Down-slope shape: Linear

Across-slope shape: Convex

Ecological site: F111XE503IN - Till Ridge

Hydric soil rating: No

Blount

Percent of map unit: 5 percent

Landform: Moraines

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Interfluvium

Down-slope shape: Linear

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Across-slope shape: Linear
Ecological site: F111XB502IN - Wet Till Ridge
Hydric soil rating: No

Pewamo

Percent of map unit: 3 percent
Landform: Moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: F111XB501IN - Till Depression
Hydric soil rating: Yes

RIB2—Rawson loam, 2 to 6 percent slopes, moderately eroded

Map Unit Setting

National map unit symbol: 5jf9
Elevation: 640 to 1,150 feet
Mean annual precipitation: 34 to 39 inches
Mean annual air temperature: 47 to 52 degrees F
Frost-free period: 165 to 175 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Rawson and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rawson

Setting

Landform: Till plains
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy outwash over clayey till

Typical profile

Ap - 0 to 7 inches: loam
E - 7 to 13 inches: loam
Bt1,Bt2 - 13 to 28 inches: sandy clay loam
2Bt3,2C - 28 to 60 inches: silty clay loam

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: 24 to 48 inches to densic material
Drainage class: Moderately well drained
Runoff class: Medium

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Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.20 in/hr)

Depth to water table: About 18 to 36 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Available water supply, 0 to 60 inches: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: C

Ecological site: F111XE503IN - Till Ridge

Hydric soil rating: No

Minor Components

Mermill

Percent of map unit: 3 percent

Landform: Depressions on lake plains, depressions on till plains

Hydric soil rating: Yes

Pewamo

Percent of map unit: 2 percent

Landform: Depressions

Hydric soil rating: Yes

Ro—Rensselaer silt loam

Map Unit Setting

National map unit symbol: 5jff

Elevation: 640 to 1,150 feet

Mean annual precipitation: 34 to 39 inches

Mean annual air temperature: 47 to 52 degrees F

Frost-free period: 165 to 175 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Rensselaer and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rensselaer

Setting

Landform: Depressions on outwash plains, depressions on stream terraces

Landform position (two-dimensional): Footslope

Down-slope shape: Concave

Across-slope shape: Linear

Parent material: Loamy outwash

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Typical profile

Ap - 0 to 7 inches: silt loam
A - 7 to 14 inches: silt loam
2Bg1-2Bg3 - 14 to 42 inches: sandy clay loam
2BC - 42 to 51 inches: sandy clay loam
2C - 51 to 70 inches: stratified silt loam to sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Calcium carbonate, maximum content: 40 percent
Available water supply, 0 to 60 inches: High (about 9.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: B/D
Ecological site: R111XB401IN - Wet Outwash Mollisol, F111XB101IN - Lacustrine
Flatwood
Hydric soil rating: Yes

References

- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
- American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. September 18, 2002. Hydric soils of the United States.
- Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.
- National Research Council. 1995. Wetlands: Characteristics and boundaries.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580
- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf