ADDENDUM

CSO
ARCHITECTURE · INTERIOR DESIGN

ADDENDUM NO: 02

PROJECT: DECATUR COUNTY SCHOOLS TRANSPORTATION CENTER

PROJECT NO: 2021107 DATE: 04/08/2025 BY: Emery Hunt

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein. This Addendum includes:

Addendum Pages:
ADD 1 of 5 through ADD 5 of 5

Attached Documents:

Specifications: 32 12 16

Drawings: C000, C100, C200, C300, C500, C700, C800, C802, C803, C900, C903

PART 1 - GENERAL INFORMATION

1.1 NOT APPLICABLE

PART 2 - BIDDING REQUIREMENTS

2.1 BP-3 Sitework/Paving/Exterior Site concrete & Curbs

A. Only 1 road bore needs to be across the street into the meter vault.

B. The meter vault & fire line work up to 5'-0 outside of the building will be included in this package.

2.2 BP-10 Fire Suppression & Sprinklers

A. Pick up the Fire Main at 5'-0" outside of the building. No work outside of that on the exterior.

PART 3 - SPECIFICATIONS

3.1 23 74 13 - PACKAGED ROOFTOP UNITS

A. Under Paragraph 2.10, add the following "Themostat shall be WiFi capable for remote access by Owner to monitor space temperature and system status, occupied/unoccupied scheduling, and setpoint management."

B. Replace Paragraph 2.11-A to read as follows: "A 15 amp, single phase 125V receptacle outlet shall be mounted on the unit exterior. The outlet shall be easily accessible to service personnel and factory wired to the line side of the unit power terminal block or disconnect option, with ground fault circuit interrupter (GFCI) protection for use in outdoor applications. The outlet is factory

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provided with the necessary fuses and step down transformer to maintain the single point power connection to the RTU"

3.2 32 12 16 – ASPHALT PAVING

A. See attached revised spec section.

PART 4 - DRAWINGS

4.1 C000 – TITLE SHEET

A. Modified Drawing Index to identify the revised sheets & dates under this Addendum (clouded)

B. Modified project contacts listed at the bottom of the sheet (City & Utility contacts)

4.2 C100 – DEMOLITION PLAN

A. Added Alternate #1 for trail parking/pavement removal (if Alternate #1 is accepted to extend the trail further north), per City/County comments. See Sheet C200.

B. Removed special line type over existing storm roof drainage to west of existing building (see Demolition Item #2).

C. Removed pavement removal across Montgomery Road with proposed horizontal directional drill of water connection

4.3 C200 – SITE PLAN

A. Added Alternate #1 for 12-ft wide trail pavement extension, pedestrian crossing signage & striping, and ADA detectable warning, per City/County comments.

4.4 C300 – GRADING PLAN

A. Added grading for Alternate #1 trail extension

B. Modified grades around building

4.5 C500 – UTILITY PLAN

A. Added notes for existing 12" water main size, existing 4" gas main size

B. Modified size of domestic service to 3", per bidder question

C. Removed 2nd water tap on existing main to the water vault. Plans now show one 4" tap in lieu of two taps shown previously

D. Removed remote FDC and leader piping – now located on the vault itself.

E. Roof drain layout of existing building has been revised to connect to Str.410

4.6 C700 – LANDSCAPING PLAN

A. Modified location of plantings for Alternate #1 trail extension

4.7 C800 – SITE DETAILS

A. Modified Detail #200 and #201 labels for pavement layers to clarify aggregate sizes, per bidder question.

4.8 C802 – DRAINAGE DETAILS

A. Modified Detail 401 to include end section toe anchors

4.9 C803 – DRAINAGE DETAILS

A. Added Detail for Alternate #1 asphalt trail cross section, per City/County comments.

4.10 C900 – STORMWATER POLLUTION PREVENTION PLAN

A. Modified disturbance limits for Alternate #1 asphalt trail extension

B. Modified riprap apron length for outlet pipe, per City drainage comments

4.11 C903 – STORMWATER POLLUTION PREVENTION PLAN

A. Modified STR 400 riprap apron length for outlet pipe, per City drainage comments

PART 5 - QUESTIONS AND AWSNERS

5.1 In Division 32 of the spec book, page 32 12 16-6, spec 2.7 (Recycled Asphalt Pavement) reads that RAP can only be used in the base or binder, meaning the surface must be a virgin mix; however, spec 2.6 references INDOT spec 402.04, which allows RAP in the asphalt mixes. Can you clarify whether or not the virgin mix is required for the surface?

A. The Surface can contain Recycled Asphalt Pavement per latest INDOT specs. The project specification 32 12 16 has been updated and included with this Addendum.

5.2 On sheet C800 of the Civil plan sheets states that the heavy duty and light duty pavement section binder should be NO.9 Binder, which is a 12.5mm mix. In Division 32 of the spec book, page 32 12 16-6, spec 2.6B states that the Base should be 19mm mix. Can you clarify whether the base should e 12.5mm or 19mm?

A. 19mm base is the intent. Sheet C800 has been updated to match the spec.

5.3 For the heavy duty pavement section, are you wanting a heavier liquid such as 70-22 rather than 64-22?

A. This should not be necessary. While school buses are anticipated on this site, daily school bus traffic is not anticipated, only at times of maintenance and inspection; therefore, the pavement is still within the low ESAL Category.

5.4 What is the existing water main size/material that we will be connecting to?

A. The existing main is 12" diameter on west side of Montgomery Rd. Material is unknown but that question has been forwarded to the City Water Utility.

5.5 Currently called out to be 2.5" service, could this be upsized to 3"? Depending on existing main size, that may be custom order tap sleeve.

A. In lieu of two separate taps, the water tap at the 12" main is revised to a single 4" tap size (combined fire & domestic prior to splitting in the vault per City standard Vault Detail W-10 on Sheet C805). The domestic service line is updated to 3" service size. See updated C500 Sheet.

5.6 West side of the existing building needs the storm drains that were demolished to be tied back into the stormwater system.

A. Response: To clarify – this portion of storm roof drainage remains in place. See C100 Sheet Demolition Item #2.

5.7 Trench drain detail from 414 to 413 is a bit confusing. I assume that the trench drain can stay towards the surface and then hit the structure at 414. So that it doesn't have to be buried in concrete 6-7' in depth.

A. The trench drain was revised and depth decreased in Addendum #1. See Sheet C400 issued in Addendum #1.

5.8 Will this project use standard nuts and bolts for framing connections or are there tension control bolt requirements for this project?

A. This will be required by the PEMB supplier and their engineer to determine what is required for the PEMB system.

5.9 Will the steel base plates have any grout assumed under the base plates? If yes, how thick?

A. This will be required by the PEMB supplier and their engineer to determine what is required for the PEMB system.

5.10 There are no specifications for the type of piping they want for the compressed air system. Will they please clarify that?

A. Compressed Air piping shall be Sch 40 threaded Black Steel pipe.

5.11 Also, the specifications call for filter/regulators for the air drops, however nothing is shown on the drawing details. Are these required?

A. Yes. Filter/regulators are required at each compressed air outlet and to equipment connections. See detail G/P-401.

5.12 Is the HVAC equipment to be connected to an Owner BAS.

A. No. Provide a wi-fi capable thermostat for the RTU that is compatible with the equipment to allow for Owner monitoring of space temperature,, humidity, and equipment status. Provide a wi-fi enabled independent space temperature sensor for the Training Room. Honeywell, Trane, or similar.

5.13 What is the length from the existing MDF to the new IDF?

A. The length is about 100 feet from the existing MDF to the new IDF.

5.14 For the Roof Panel, Wall Panel and Liner Panel is the intent to use standard Galvalume coated steel coil as the base coil material? Or is Galvanized coil required?

A. Galvanized per the spec.

5.15 Specs indicate 0.034 inch (20 ga.). SuperLOK standard is 24 ga., 20 ga. is not available. Is 24 ga. the intended gauge?

A. Manufacturer's standard 24 gauge is acceptable.

5.16 Metal wall panels: Specs indicate 0.034 inch (20 ga.). FW-120 standard is 24 ga. Is 24 ga. acceptable?

A. 24 gauge is acceptable.

END ADDENDUM

SECTION 32 12 16 – ASPHALT PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.

B. All Site Civil Drawings Issued by Civil & Environmental Consultants, Inc., dated December 7, 2020 and subsequent addendums.

C. INDOT - Standard Specifications, State of Indiana, Department of Transportation, latest edition, except references to method of payment, and references to any state furnished materials.

1.2 SUMMARY

A. Section Includes:
1. Cold milling of existing hot-mix asphalt pavement.
2. Hot-mix asphalt patching.
3. Hot-mix asphalt paving.
4. Hot-mix asphalt paving overlay.
5. Asphalt surface treatments.
6. Curb repair or replacement.
7. Guardrail to meet INDOT Standard Specifications and Details

B. Related Sections:
1. Division 31 Section “Site Clearing” for removal of above ground improvements.
2. Division 31 Section "Earth Moving" for aggregate subbase courses and for aggregate pavement shoulders.

1.3 DEFINITION

A. Hot-Mix Asphalt Paving Terminology: Refer to ASTM D 8 for definitions of terms.

B. INDOT: Indiana Department of Transportation.

1.4 SYSTEM DESCRIPTION

A. Provide hot mix asphalt paving according to materials, workmanship, and other applicable requirements of standard specification of state or local DOT.

B. Special Conditions
1. Protection of work in place
a. All paving work shall be protected from construction traffic at all times after completion. All damaged work shall be replaced with no additional payment.

1.5 SUBMITTALS

A. Quality Assurance/Control Submittals:

1. Product Data: For each type of product indicated. Include technical data and tested physical and performance properties.
2. Job-Mix Designs: Certification, by authorities having jurisdiction, of approval of each job mix proposed for the Work.
   a. Certification: Provide material certificates signed by the material producer and the Contractor, certifying that each mixture does not contain ferrous material or ferrous minerals of any kind.

1.6 QUALITY ASSURANCE

A. Testing Agency Qualifications: Qualified according to ASTM D 3666 for testing indicated.

B. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of the State Department of Transportation Standard Specifications for asphalt paving work, except where modified, changed or added to in this specification:
   1. Measurement and payment provisions and safety program submittals included in standard specifications do not apply to this Section.

C. Pre-installation Conference: Conduct conference at Project site.
   1. Review methods and procedures related to hot-mix asphalt paving including, but not limited to, the following:
      a. Review proposed sources of paving materials, including capabilities and location of plant that will manufacture hot-mix asphalt.
      b. Review condition of subgrade and preparatory work.
      c. Review requirements for protecting paving work, including restriction of traffic during installation period and for remainder of construction period.
      d. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

D. Manufacturer Qualifications: A paving-mix manufacturer registered with and approved by authorities having jurisdiction or INDOT.

E. Testing Agency Qualifications: Qualified according to ASTM D 3666 for testing indicated.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver pavement-marking materials to Project site in original packages with seals unbroken and bearing manufacturer's labels containing brand name and type of material, date of manufacture, and directions for storage.

B. Store pavement-marking materials in a clean, dry, protected location within temperature range required by manufacturer. Protect stored materials from direct sunlight.

1.8 PROJECT CONDITIONS

A. Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damp, if rain is imminent or expected before time required for adequate cure, or if the following conditions are not met:
   1. Prime Coat: Minimum surface temperature of 60 deg F.
   2. Tack Coat: Minimum surface temperature of 60 deg F.
   3. Slurry Coat: Comply with weather limitations in ASTM D 3910.

4. Asphalt Base Course: Minimum surface temperature of 40 deg F and rising at time of placement.
5. Asphalt Surface Course: Minimum surface temperature of 60 deg F at time of placement.

B. Pavement-Marking Paint: Proceed with pavement marking only on clean, dry surfaces and at a minimum ambient or surface temperature of 40 deg F for oil-based materials and 55 deg F for water-based materials, and not exceeding 95 deg F.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply for product selection:
1. Manufacturers: Subject to compliance with requirements, provide product by the manufacturers specified.

B. Products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product. The “Substitution Request Form” and complete technical data for evaluation must accompany requests for A/E’s approval. All materials for evaluation must be received by the Project Manager and Specification Department at least 10 days prior to bid due date. Additional approved manufacturers will be issued by Addendum.

2.2 COMPACTED AGGREGATE BASE MATERIAL

A. General: Use materials and gradations that have performed satisfactory in previous installations.
1. Coarse Aggregate: INDOT Standard Specifications section 904.03, sound; angular crushed stone, crushed gravel.
2. Fin Aggregate: INDOT Standard Specification Section, 904.02, sharp-edged natural sand or sand prepared from stone, gravel or combination thereof.
a. For hot-mix asphalt, limit natural sand to a maximum of 20 percent by weight of the total aggregate mass.
3. Mineral Filler: INDOT Standard Specification Section 904.02 (f), rock or slag dust, hydraulic cement or other inert material.
4. Aggregates shall meet DOT requirement of State in which the project is located and as indicated.
5. Provide crushed limestone. The contractor may provide 95 to 100 percent crushed gravel. Class B or higher aggregates shall be used in all cases.
6. Compacted aggregate base material shall conform to the gradation shown in the table for each class of paving.
7. All compacted aggregate for bituminous paving shall be constructed in two lifts. In no case shall compacted aggregate lifts be thicker than 4 inches.
8. Compacted aggregate shall contain 0% soft particles, 0 percent shale and 0 percent flat elongated particles.

2.3 MATERIAL GRADATIONS (Percent Passing is shown):

SIEVE SIZE mm (US Sieve)	PARKING AND DRIVES	BINDER COURSE	BASE COURSE	COMPACTED AGGREGATE

	SURFACE COURSE			
37.5 (1 ½)			100	100
25.0 (1)		100	80-99	80-100
19.0 (3/4)		80-98	67-90	70-90
12.5 (1/2)	100	56-80	42-74	55-80
9.5 (3/8)	85-98	43-68	33-60	45-70
4.75 (No. 4)	57-67	30-40	25-35	35-60
2.36 (No. 8)	31-62	14-40	12-34	25-50
1.18 (No. 16)	17-50	8-32	7-28	---
600mm (No. 30)	8-37	5-24	4-22	12-30
300mm (No. 50)	3-25	2-16	1-16	---
150mm (No. 100)	0-14	0-10	0-10	---
75mm (No. 200)	0-3	0-3	0-3	5-10
% Bitumen	5.5-7.0	4.1-5.2	4.0-5.1	N/A

2.4 PAVING MATERIALS

A. General: Use locally available materials and gradations, which exhibit a satisfactory record of previous installations.

B. Mineral Filler: Limestone dust, portland cement, or other inert material complying with State Department of Transportation Standard Specifications.

C. Asphalt Binder: AASHTO M320, P64-22

D. Asphalt Cement: Use Performance Grade liquid asphalt's in accordance with State Department of Transportation Standard Specifications.

E. Emulsified Asphalt Prime Coat: INDOT Standard Specifications 902.01(b), emulsified asphalt, or cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.

F. Tack Coat: INDOT Standard Specifications 904, emulsified asphalt or cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.

G. Fabric: As specified on the Drawings.

H. Protective Membrane System (if required): Nonwoven polypropylene fabric and asphalt cement complying with AASHTO M-288-00. Subject to compliance with requirements, provide one of the following products:
   1. Petromat or Petrotac; Amoco Fabrics and Fibers Company, Austell, Georgia.
   2. Mirafi FG; TC Mirafi, Norcross, Georgia.
   3. 461 Pavedry; SI Geosolutions, Chattanooga, Tennessee.

I. Pavement Sealers

~~1.~~ Petroleum Resin Emulsion specifically formulated as a weather protective, water resistant coating for all asphalt surfaces. ~~Emulsified-Asphalt Slurry: ASTM D 3910, Type I (modified), consisting of emulsified-asphalt, fine aggregates, and mineral fillers.~~

~~a.~~ Basis-of-Design: Apply two (2) coats of Neyra Industries "Force" Petroleum Resin Sealer with 4 lbs of #70 silica sand per gallon diluted to no less than 25% or less. ~~Refined coal tar emulsion "Jennite" as manufactured by Neyra Industries, Inc., Cincinnati, Ohio. The emulsion must meet or exceed tar requirements of Federal Specification~~ R-P355e ~~"refined coal tar emulsion."~~

b. Mineral Aggregate: Shall be clean, dry #70 silica sand, free from foreign matter. There should be no more than 2 percent retained on 30 mesh or coarser; no more than 10 percent retained ~~passing~~ on 140 mesh, and no more than 0.30 percent retained ~~passing~~ on 200 mesh. Add at a rate of 15 lbs per gallon and suspend with latex product (or as recommended by manufacture to provide a slip free surface).

~~c.~~ Water: As recommended by manufacturer. ~~Not to be used except when sand slurry Jennite is used. Never exceed 10 percent of the volume of undiluted Jennite.~~

d. The new Sealer will require closure of the pavement for a minimum of 24 hours or as recommended by the manufacturer.

e. Sprinkler systems need to be turned off for a minimum of 3 days prior to and after sealcoating process.

2.5 AUXILIARY MATERIALS

A. Recycled Materials for Hot-Mix Asphalt Mixes: INDOT Standard Specification 401.06, 402.08 and 410.06, Reclaimed asphalt pavement; reclaimed, unbound-aggregate base material; and recycled asphalt shingles from sources and gradations that have performed satisfactorily in previous installation, equal to performance of required hot-mix asphalt paving produced from all new martials.

B. Herbicide: Commercial chemical for weed control, registered by the EPA. Provide in granular, liquid, or wettable powder form.

C. Sand: INDOT Standard Specification 904.02 (b) fine aggregate for HMA mixtures.

D. Paving Geotextile: AASHTO M 288, nonwoven polypropylene; resistant to chemical attack, rot, and mildew; and specifically designed for paving applications.

E. Joint Sealant: INDOT Standard Specification ASTM D 6690 Type II or III, hot-applied, single-component, polymer-modified bituminous sealant.

F. Pavement-Marking Paint: Alkyd-resin type, lead and chromate free, ready mixed, complying with AASHTO M 248, Type N or Type F; colors complying with FS TT-P-1952.
1. Color: As indicated.

G. Accessibility Pavement-Marking Paint: Latex, waterborne emulsion, lead and chromate free, ready mixed, complying with FS TT-P-1952, Type II, with drying time of less than 45 minutes.
1. Color: Blue.

H. Guardrails and Accessories: Guardrails shall be furnished in accordance with INDOT Standard Specifications Section 601 – Guardrail. The work shall consist of the fabrication, assembly, and installation of guardrail, guardrail transitions, and guardrail end treatments in accordance to

INDOT Standards and the Construction Drawings, Construction Drawings Plan Notes, and Construction Drawing Details.

All guardrail, posts, accessories, fittings, hardware, timber posts steel W-beam rail shall be supplied from a source listed on INDOT's list of Certified Guardrail Suppliers in accordance with INDOT specification section 910.09. End treatments shall be selected from the INDOT list of approved Guardrail End Treatments in accordance with 601.07.

Installation of Guardrail and Accessories shall be installed per INDOT Standard Specifications latest addition.

2.6 MIXES

~~A.~~ All mix design parameters shall be measured in accordance and comply with INDOT Standard Specifications.

B. Hot-Mix Asphalt: INDOT Standard Specification 402.04, Dense-graded, hot-laid, hot-mix asphalt mixes and complying with the following requirements:
1. Provide mixes with a history of satisfactory performance in geographical area where Project is located.
2. Base Course: 19 mm.
3. Surface Course: 9.5 mm.

C. Emulsified-Asphalt Slurry: ASTM D 3910.

2.7 RECYCLED ASPHALT PAVEMENT

A. Recycled asphalt pavement may be used per INDOT Spec 401.06. Provided the recycled asphalt does not contain objectionable material or materials that are not compatible with paints, coatings or other pavement markings, and do not exceed DOT recommended percentages.

2.8 CURB replacement

A. Existing curbing disturbed during construction shall be replaced to match the size and shape of the existing curbing and shall be installed per DOT standards.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that subgrade is dry and in suitable condition to begin paving.

B. Proof-roll subgrade below pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
1. Completely proof-roll subgrade in one direction, repeating proof-rolling in direction perpendicular to first direction. Limit vehicle speed to 3 mph (5 km/h).
2. Proof roll with a loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons.
3. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by Architect, and replace with compacted backfill or fill as directed.

C. Proceed with paving only after unsatisfactory conditions have been corrected.

3.2 COLD MILLING

A. Clean existing pavement surface of loose and deleterious material immediately before cold milling. Remove existing asphalt pavement by cold milling to grades and cross sections indicated.
   1. Mill parking areas to a depth of 2 inches and only the latex/rubber track surface required to the underlying asphalt surface layer.
   2. Mill to a uniform finished surface free of excessive gouges, grooves, and ridges.
   3. Control rate of milling to prevent tearing of existing asphalt course.
   4. Repair or replace curbs, manholes, and other construction damaged during cold milling.
   5. Excavate and trim unbound-aggregate base course, if encountered, and keep material separate from milled hot-mix asphalt.
   6. Transport milled hot-mix asphalt to asphalt recycling facility.
   7. Keep milled pavement surface free of loose material and dust.

3.3 PATCHING

A. Hot-Mix Asphalt Pavement: Saw cut perimeter of patch and excavate existing pavement section to sound base. Excavate rectangular or trapezoidal patches, extending 12 inches into adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically. Remove excavated material. Recompact existing unbound-aggregate base course to form new subgrade.

B. Tack Coat: Apply uniformly to vertical surfaces abutting or projecting into new, hot-mix asphalt paving at a rate of 0.05 to 0.15 gal./sq. yd.
   1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
   2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

C. Patching: Fill excavated pavements with hot-mix asphalt base mix for full thickness of patch and, while still hot, compact flush with adjacent surface.

D. Patching: Partially fill excavated pavements with hot-mix asphalt base mix and, while still hot, compact. Cover asphalt base course with compacted, hot-mix surface layer finished flush with adjacent surfaces.

3.4 REPAIRS

A. Leveling Course: Install and compact leveling course consisting of hot-mix asphalt surface course to level sags and fill depressions deeper than 1 inch in existing pavements.
   1. Install leveling wedges in compacted lifts not exceeding 3 inches thick.

B. Crack and Joint Filling: Remove existing joint filler material from cracks or joints to a depth of 1/4 inch.
   1. Clean cracks and joints in existing hot-mix asphalt pavement.
   2. Use emulsified-asphalt slurry to seal cracks and joints less than 1/4 inch wide. Fill flush with surface of existing pavement and remove excess.
   3. Use hot-applied joint sealant to seal cracks and joints more than 1/4 inch wide. Fill flush with surface of existing pavement and remove excess.

3.5 INSTALLATION OF COMPACTED AGGREGATE BASE

A. The entire area to receive compacted aggregate shall be proof rolled with a tandem dump truck loaded with approximately 15 tons. The proof rolling shall be executed prior to installing the compacted aggregate. All soft and yielding areas shall be repaired.
   1. The acceptable observed subgrade deflection shall be 1/2 inch or less measured at the rear tire.

B. Compacted aggregate shall be installed immediately after acceptance of the subgrade proof roll operation by the soils engineer and Architect.
   1. The subgrade shall be repaired and the proof roll operation repeated in the event the approved subgrade is disturbed by construction traffic, rain or other circumstance prior to placing the compacted aggregate.
   2. The proof roll operation shall be repeated in the event the subgrade is left exposed for 3 work days or more prior to placing the compacted aggregate.

C. Place the aggregate material in accordance with applicable sections of the State Department of Transportation Standard Specifications and as hereinafter specified.

D. Aggregate material shall be compacted to thickness indicated on the Drawings. Each lift shall be compacted with approved rollers to no less than 100 percent of the maximum dry density as determined by Method C of AASHTO T99, as modified in Article 2.03.24.

E. All compacted aggregates for all bituminous pavements shall be installed in 2 lifts.

F. Grade Control: During construction maintain lines and grades, including crown and cross-slope of compacted aggregate course.

G. Shoulders: Where curbs are not indicated, place shoulders along edges of aggregate subbase course on new paving to prevent lateral movement. Construct shoulders of acceptable aggregate materials, placed in such quantity to compact to thickness of each aggregate base course layer. Compact and roll at least a 12 inch width of shoulder simultaneously with compacting and rolling of each layer of aggregate subbase course.

3.6 SURFACE PREPARATION

A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.

B. Herbicide Treatment: Apply herbicide according to manufacturer's recommended rates and written application instructions. Apply to dry, prepared subgrade or surface of compacted-aggregate base before applying paving materials.
   1. Mix herbicide with prime coat if formulated by manufacturer for that purpose.

C. Tack Coat: Apply uniformly to surfaces of existing pavement at a rate of 0.05 to 0.15 gal./sq. yd.
   1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
   2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

3.7 PAVING GEOTEXTILE INSTALLATION (IF REQUIRED)

A. Apply tack coat uniformly to existing pavement surfaces at a rate of 0.20 to 0.30 gal./sq. yd.

1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

B. Place paving geotextile promptly according to manufacturer's written instructions. Broom or roll geotextile smooth and free of wrinkles and folds. Overlap longitudinal joints 4 inches and transverse joints 6 inches.
1. Protect paving geotextile from traffic and other damage and place hot-mix asphalt paving overlay the same day.

3.8 HOT-MIX ASPHALT PLACING

A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand to areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.
1. Place hot-mix asphalt base course in number of lifts and thicknesses indicated.
2. Place hot-mix asphalt surface course in single lift.
3. Spread HMA base mix at minimum temperature of 250 deg F and HMA Surface Mix at a minimum temperature of 280 deg F.
4. Begin applying mix along centerline of crown for crowned sections and on high side of one-way slopes unless otherwise indicated.
5. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.

B. Place paving in consecutive strips not less than 10 feet wide unless infill edge strips of a lesser width are required.
1. After first strip has been placed and rolled, place succeeding strips and extend rolling to overlap previous strips.
2. Complete a section of asphalt base course before placing asphalt surface course.

C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

D. Special Conditions
1. Fenced areas: All fence fabric shall be removed from poles prior to paving fenced areas.
2. The paving machine shall not be allowed to track over or back track over any finished course of freshly placed bituminous mixture while the mixture is still hot or warm. Tracking the paving machine over freshly placed bituminous courses shall render that section of pavement unacceptable. All unacceptable pavements shall be removed and replaced with no additional payment.

3.9 JOINTS

A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.
1. Clean contact surfaces and apply tack coat to joints.
2. Offset longitudinal joints, in successive courses, a minimum of 6 inches.
3. Offset transverse joints, in successive courses, a minimum of 24 inches.
4. Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method according to AI MS-22, for both "Ending a Lane" and "Resumption of Paving Operations."

5. Compact joints as soon as hot-mix asphalt will bear roller weight without excessive displacement.
6. Compact asphalt at joints to a density within 2 percent of specified course density.

3.10 COMPACTION

A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or with vibratory-plate compactors in areas inaccessible to rollers.
   1. Complete compaction before mix temperature cools to 185 deg F.

B. Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.

C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:
   1. Average Density: 96 percent of reference laboratory density according to ASTM D 6927 or AASHTO T 245, but not less than 94 percent nor greater than 100 percent.

D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.

E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.

F. Repairs: Remove paved areas that are defective or contaminated with foreign materials and replace with fresh, hot-mix asphalt. Compact by rolling to specified density and surface smoothness.

G. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.

H. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

3.11 CURB REPAIR OR REPLACEMENT

A. For any existing curbs to remain that are damaged during construction sawcut damaged sections and construct new to match adjacent per details and DOT standards.

3.12 INSTALLATION TOLERANCES

A. Pavement Thickness: Compact each course to produce the thickness indicated within the following tolerances:
   1. Base Course: Plus or minus 1/2 inch.
   2. Surface Course: Plus 1/4 inch, no minus.

B. Pavement Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot (3-m) straightedge applied transversely or longitudinally to paved areas:
   1. Base Course: 1/4 inch.

2. Surface Course: 1/8 inch.
3. Crowned Surfaces: Test with crowned template centered and at right angle to crown. Maximum allowable variance from template is 1/4 inch.

3.13 SURFACE TREATMENTS

A. Fog Seals: Apply fog seal at a rate of 0.10 to 0.15 gal./sq. yd. to existing asphalt pavement and allow to cure. With fine sand, lightly dust areas receiving excess fog seal.

B. Slurry Seals: Apply slurry coat in a uniform thickness according to ASTM D 3910 and allow to cure.
1. Roll slurry seal to remove ridges and provide a uniform, smooth surface.

3.14 PAVEMENT MARKING

A. Do not apply pavement-marking paint until layout, colors, and placement have been verified with Architect.

B. Allow paving to age for 30 days before starting pavement marking.

C. Sweep and clean surface to eliminate loose material and dust.

D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils.
1. Broadcast glass beads uniformly into wet pavement markings at a rate of 6 lb/gal.

3.15 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.

B. Thickness: In-place compacted thickness of hot-mix asphalt courses will be determined according to ASTM D 3549.
1. Compacted thickness shall not be less than indicated.

C. Surface Smoothness: Test finished surface of each asphalt concrete course for smoothness, using a 10-foot straightedge applied parallel with, and at right angles to, centerline of paved area. Surfaces will not be accepted if exceeding the following tolerances for smoothness:
1. Binder Course: 1/4 inch.
2. Surface Course: 1/8 inch.
3. Check surface areas at intervals as directed by the Architect.

D. Flood Test
1. Schedule: After the pavement is complete, perform a flood test in the presence of the Architect.
2. Method: Perform the flooding by use of water tank truck or available water.
3. If depressions exist where water is ponding to a depth of more than 1/8 inch, fill with fresh hot asphalt concrete to provide proper drainage. Feather and smooth the edges of fill so that the joint to original surface is not visible.

E. Test uncompacted asphalt concrete mix and report the following:
1. Sampling: AASHTO T168 (ASTM D979).
2. Asphalt Cement Content: AASHTO T164 (ASTM D2172).
3. Perform at least one initial test for paving, unless otherwise specified or directed.

F. In-Place Density: Testing agency will take samples of uncompacted paving mixtures and compacted pavement according to ASTM D 979 or AASHTO T 168.
   1. Reference maximum theoretical density will be determined by averaging results from four samples of hot-mix asphalt-paving mixture delivered daily to site, prepared according to ASTM D 2041, and compacted according to job-mix specifications.
   2. In-place density of compacted pavement will be determined by testing core samples according to ASTM D 1188 or ASTM D 2726.
      a. One core sample will be taken for every 500 sq. yd. or less of installed pavement, with no fewer than 3 cores taken.
      b. Field density of in-place compacted pavement may also be determined by nuclear method according to ASTM D 2950 and correlated with ASTM D 1188 or ASTM D 2726.

G. Replace and compact hot-mix asphalt where core tests were taken.

H. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

I. Handle asphalt-paving waste according to approved waste management

3.16 FINAL ACCEPTANCE CRITERIA FOR HEAVY AND STANDARD DUTY PAVING

A. Final acceptance for heavy duty and standard duty paving shall be based on asphalt coring within the test area limits as shown on the Drawings. Arrange for and execute core sampling by an independent testing agency. The cost of this testing shall be included in the bid by Contractor.

B. Core Requirements
   1. Cores shall be a minimum of 2 inches in diameter and 24 inches in depth.
   2. Cores shall be taken at a rate of 1 core every 3000 sq.yds. for each pavement type in each test area. In any case, no less than 4 cores shall be taken in each test area for each type of pavement.
   3. The location of the cores shall be at painted lines and as determined by the Engineer and marked on the Drawings after the surface course has been constructed.
   4. The total thickness of the surface plus the binder course for each core shall be determined. The total thickness of the compacted aggregate base for each core shall be measured and recorded.
   5. The average thickness of each aggregate course for each pavement type shall be determined and recorded for each test area. The average thickness of the surface course plus the binder course shall be determined and recorded for each test area.
   6. Voids created as a result of the coring shall be filled using concrete, mortar or other bituminous material as directed.

C. Acceptance Criteria
   1. The thickness of each asphalt course as shown on the Drawings is the compacted minimum not an average. If the average thickness of any asphalt or aggregate course is less than that shown on the Drawings, then the entire test area shall be resurfaced using a bituminous surface mixture with appropriate aggregate size to obtain 90 pound per square yard yield without breaking or scratching the aggregate.
   2. If the average thickness of the surface plus the binder or the average thickness of the compacted aggregate equals or exceeds the required thickness and if any course in any individual core is less than that shown on the Drawings then, at the discretion of the Engineer, that portion of the test area shall be resurfaced using 90 pound per square yard bituminous surface. Areas requiring resurfacing due to inadequate core samples shall not be less than 2400 square feet.

3. No asphalt materials shall be removed to correct insufficient compacted aggregate once the binder or surface has been placed. The only acceptable corrective measure for insufficient compacted aggregate is additional bituminous material. Substantially insufficient compacted aggregate shall be corrected by additional resurface work constructed at a rate of 1 compacted inch of asphalt for every 2 inches of insufficient aggregate.
4. No additional payment will be made for additional construction necessary due to insufficient cores.

D. Acceptance Submittals
   1. No bituminous pavements will be accepted until it has been demonstrated by the Contractor that the pavements are in accordance with the Drawings and Specifications. The Contractor shall submit the following:
      a. Pavement coring report with a drawing illustrating the location of each core taken, asphalt and aggregate thicknesses and subgrade moisture content.
      b. Modified proctor maximum dry density soil data for each soil type used as subgrade within the pavement. The soils data sheet(s) shall indicate which asphalt core or cores the soil corresponds to.
      c. Job mix formula for each type of bituminous mixture. The job mix formula shall contain, at minimum, the aggregate gradation, percent bitumen, source and type of bitumen and the laboratory maximum compacted density for the mixture.
      d. In-place asphalt compaction density test results illustrating the corresponding core to which the test applies.

E. Variation from Job Mix Formula or Required Gradations:
   1. Compliance Criteria
      a. Paving work shall be considered in compliance if the gradations and % bitumen noted in the table are within the specified ranges. No contract adjustments shall be made for all work that is in compliance with these specifications.
   2. Substantial Compliance Criteria
      a. Paving work shall be considered within substantial compliance if the gradations and percent bitumen noted in the table are within plus or minus 0.20
      b. A deduct contract adjustment shall be made at the rate of $0.50 per square yard for each square yard of paving that varies from the Job Mix Formula or the Required Gradations.
   3. Non-Compliance: Paving work shall be considered non-compliant if the gradations and percent bitumen deviate greater than 0.20 of the values in the table.

3.17 DISPOSAL

A. Except for material indicated to be recycled, remove excavated materials from Project site and legally dispose of them in an EPA-approved landfill.
   1. Do not allow milled materials to accumulate on-site, on roadways near or surrounding the site.

END OF SECTION 321216

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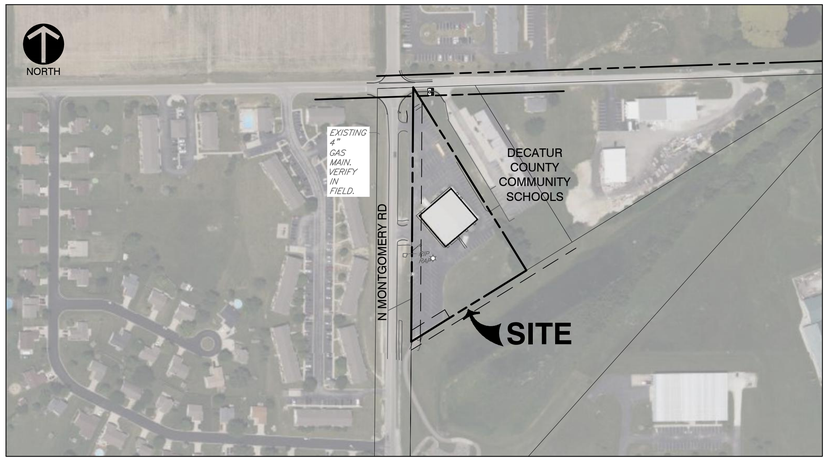
DECATUR COUNTY SCHOOLS
TRANSPORTATION BUILDING

2020 N MONTGOMERY ROAD
GREENSBURG, INDIANA 47240

CONSTRUCTION DOCUMENTS

FEBRUARY 12, 2025

LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

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DEVELOPER / OWNER
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CONTACT:

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TOPOGRAPHIC SURVEY	TOPO
TOPOGRAPHIC SURVEY	TOPO
DEMOLITION PLAN	C100
SITE PLAN	C200
GRADING PLAN	C300
DRAINAGE PLAN	C400
EMERGENCY FLOOD ROUTING PLAN	C401
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FLOOD NOTE:

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONE "X" (UN-SHADED) AS SAID PARCEL PLOTS ON MAP NUMBER 18031C0151D (DATED OCTOBER 16, 2016) OF THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF GREENSBURG, DECATUR COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 2403223270 AND 2403223323 WERE ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICE, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

BENCHMARKS:

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88) (GEOID 18). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: MAGNAIL IN SOUTH SIDE OF LIGHT BASE LOCATED IN SOUTH PARKING LOT 47'± SOUTHWEST OF SOUTHWEST BUILDING CORNER.
ELEV. = 967.11

TBM#2: CHISEL MARK IN SOUTH SIDE OF MANHOLE EAST OF BUILDING LOCATED 64'± NORTH OF THE SOUTHEAST BUILDING CORNER AND 44'± NORTHWEST OF ELECTRICAL TRANSFORMER.
ELEV. = 964.85

TBM#3: CHISELED SQUARE ON TOP OF CURB ON THE SOUTH SIDE OF FREELAND ROAD LOCATED 35'± NORTH OF THE NORTHEAST CORNER OF THE PARKING LOT AND 42'± NORTHEAST OF THE UTILITY POLE AT THE SOUTHEAST CORNER OF THE MONTGOMERY ROAD AND FREELAND ROAD INTERSECTION.
ELEV. = 965.02

Indiana 811 Know what's below. Call before you dig.

JONATHAN M. PAST REGISTERED No. PE12100829 STATE OF INDIANA PROFESSIONAL ENGINEER
02/12/2025

REVISION RECORD

NO	DATE	DESCRIPTION
1	04/04/2025	ADDENDUM #1
2	04/08/2025	ADDENDUM #2

Civil & Environmental Consultants, Inc.
530 E. Ohio Street · Suite G · Indianapolis, IN 46204
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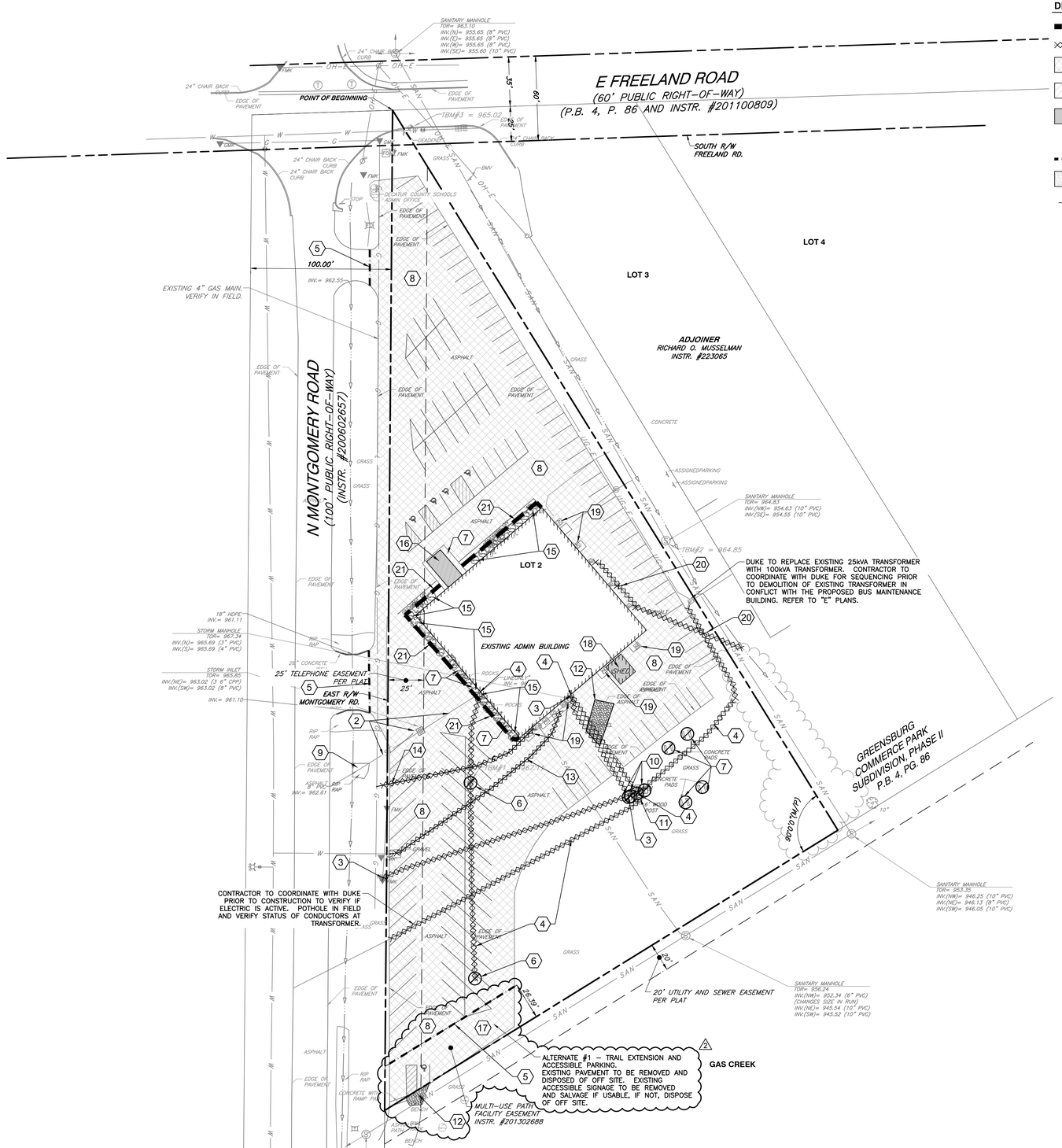
DECATUR COUNTY SCHOOLS
TRANSPORTATION BUILDING
2020 N MONTGOMERY RD
GREENSBURG, INDIANA 47240

TITLE SHEET

DATE:	FEBRUARY 12, 2025
DWG SCALE:	AS NOTED
PROJECT NO:	341-163
APPROVED BY:	ACH
DRAWN BY:	SRD
CHECKED BY:	JMP

DRAWING NO.: C000

NORTH



DEMOLITION LEGEND:

- CONCRETE CURB TO BE REMOVED
- EXISTING UTILITY TO BE REMOVED
- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE PAVEMENT TO BE REMOVED
- EXISTING BUILDING/STRUCTURE TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- SAWCUT EXISTING PAVEMENT
- GRAVEL TO BE REMOVED

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFF-SITE OF ALL ITEMS SHOWN ON THE DEMOLITION PLAN INCLUDING ITEMS ENCOUNTERED DURING EXCAVATION OF BUILDING FOUNDATIONS AND UTILITY PLACEMENT.
2. PRIOR TO STARTING DEMOLITION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANIES FOR THE DISCONNECTION AND REMOVAL OF SERVICES TO EXISTING STRUCTURES.
4. ITEMS SHOWN ON THE DEMOLITION PLAN TO BE SALVAGED SHALL BE TRANSPORTED TO LOCATION SPECIFIED BY THE OWNER OR HIS/HER REPRESENTATIVE.
5. ITEMS OF SALVAGEABLE VALUE TO THE CONTRACTOR MAY BE REMOVED WITH THE OWNER OR HIS/HER REPRESENTATIVE'S PERMISSION. THE CONTRACTOR SHALL NOT STORE THESE ITEMS ON SITE.
6. THE CONTRACTOR MAY NOT USE EXPLOSIVES OR BURN DEBRIS.
7. CONDUCT DEMOLITION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, SIDEWALKS AND ANY OTHER ADJACENT OCCUPIED FACILITIES.
8. DO NOT CLOSE OR OBSTRUCT ROADS, SIDEWALKS OR ANY OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND/ OR PROPERTY OWNERS.
9. THE CONTRACTOR SHALL ENSURE SAFE PASSAGE OF PERSON TRAVERSING THROUGH OR AROUND THE CONSTRUCTION SITE.
10. THE CONTRACTOR SHALL PROTECT FROM DAMAGE, SURROUNDING STRUCTURES, UTILITIES AND OTHER FACILITIES DURING DEMOLITION AND REMOVAL OPERATIONS.
11. BUILDING STRUCTURES INCLUDING FOUNDATIONS OR BASEMENTS SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR A MINIMUM OF 95% OF A STANDARD PROCTOR.
12. UTILITIES SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR A MINIMUM OF 95% OF A STANDARD PROCTOR.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONSTRUCTION SITE AND SURROUNDING AREAS ARE FREE OF ACCUMULATED DEBRIS.

DEMOLITION ITEMS:

1. REMOVE EXISTING STORM PIPE COMPLETE; DISPOSE OF OFF SITE.
2. PROTECT EXISTING STORM STRUCTURE AND STORM SEWER DURING CONSTRUCTION.
3. REMOVE EXISTING TELECOM CONDUIT IN CONFLICT WITH NEW BUILDING.
4. REMOVE EXISTING UNDERGROUND ELECTRIC IN CONFLICT WITH NEW BUILDING. VERIFY IF ELECTRIC IS ACTIVE. POTHOLE IN FIELD AND VERIFY STATUS OF CONDUCTORS AT TRANSFORMER. COORDINATE WITH "E" SERIES PLANS.
5. PAVEMENT SAWCUT. SAWCUT CONCRETE AT NEAREST EXISTING JOINT.
6. REMOVE EXISTING LIGHT POLE COMPLETE; DISPOSE OF OFF SITE.
7. REMOVE EXISTING CONCRETE PAVEMENT COMPLETE; DISPOSE OF OFF SITE.
8. REMOVE EXISTING ASPHALT COMPLETE; DISPOSE OF OFF SITE.
9. REMOVE & REPLACE EXISTING RIPRAP COMPLETE; DISPOSE OF OFF SITE.
10. REMOVE EXISTING TELEPHONE BOX COMPLETE; DISPOSE OF OFF SITE.
11. REMOVE EXISTING TRANSFORMER AFTER REPLACEMENT OF EXISTING TRANSFORMER NEAR THE ADJACENT PROPERTY TO THE EAST. COORDINATE WITH DUKE ENERGY.
12. REMOVE EXISTING GRAVEL COMPLETE; DISPOSE OF OFF SITE.
13. REMOVE EXISTING WATER LINE COMPLETE; DISPOSE OF OFF SITE.
14. REMOVE EXISTING GAS LINE COMPLETE; DISPOSE OF OFF SITE.
15. REMOVE ALL EXISTING TREES, SHRUBS, ROCKS, AND LANDSCAPING COMPLETE FROM THE PERIMETER OF THE EXISTING BUILDING; DISPOSE OF OFF SITE.
16. REMOVE EXISTING CANOPY, COLUMNS, AND CONCRETE BASE COMPLETE; DISPOSE OF OFF SITE. COORDINATE WITH 'A' SERIES PLANS FOR REPLACEMENT.
17. EXISTING PAVEMENT WITHIN MULTI-USE PATH TO REMAIN UNDISTURBED. PROTECT DURING CONSTRUCTION.
18. COORDINATE WITH OWNER FOR SALVAGING AND RELOCATING OR REMOVING EXISTING SHED.
19. PROTECT DURING CONSTRUCTION ALL MECHANICAL UNITS AND UTILITIES THAT ARE NOT MARKED FOR REMOVAL, RELOCATION, OR REPLACEMENT.
20. EXISTING BUILDING DOWNSPOUT DRAINS TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
21. REMOVE EXISTING CONCRETE CURB COMPLETE; DISPOSE OF OFF SITE.

UTILITY COMPANIES

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SCALE IN FEET
0 40' 80'

Indiana 811 Know what's below. Call before you dig.

JONATHAN M. PASTY REGISTERED No. PE12100829 STATE OF INDIANA PROFESSIONAL ENGINEER
02/12/2025

REVISION RECORD

NO	DATE	DESCRIPTION
1	04/08/2025	ADDENDUM #1

CEC
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530 E. Ohio Street · Suite G · Indianapolis, IN 46204
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DECATUR COUNTY SCHOOLS
TRANSPORTATION BUILDING
2020 N MONTGOMERY RD
GREENSBURG, INDIANA 47240

DEMOLITION PLAN

DATE:	FEBRUARY 12, 2025
DWG SCALE:	1"=40'
PROJECT NO:	341-163
DRAWN BY:	SRD
CHECKED BY:	JMP
APPROVED BY:	ACH

DRAWING NO.:
C100

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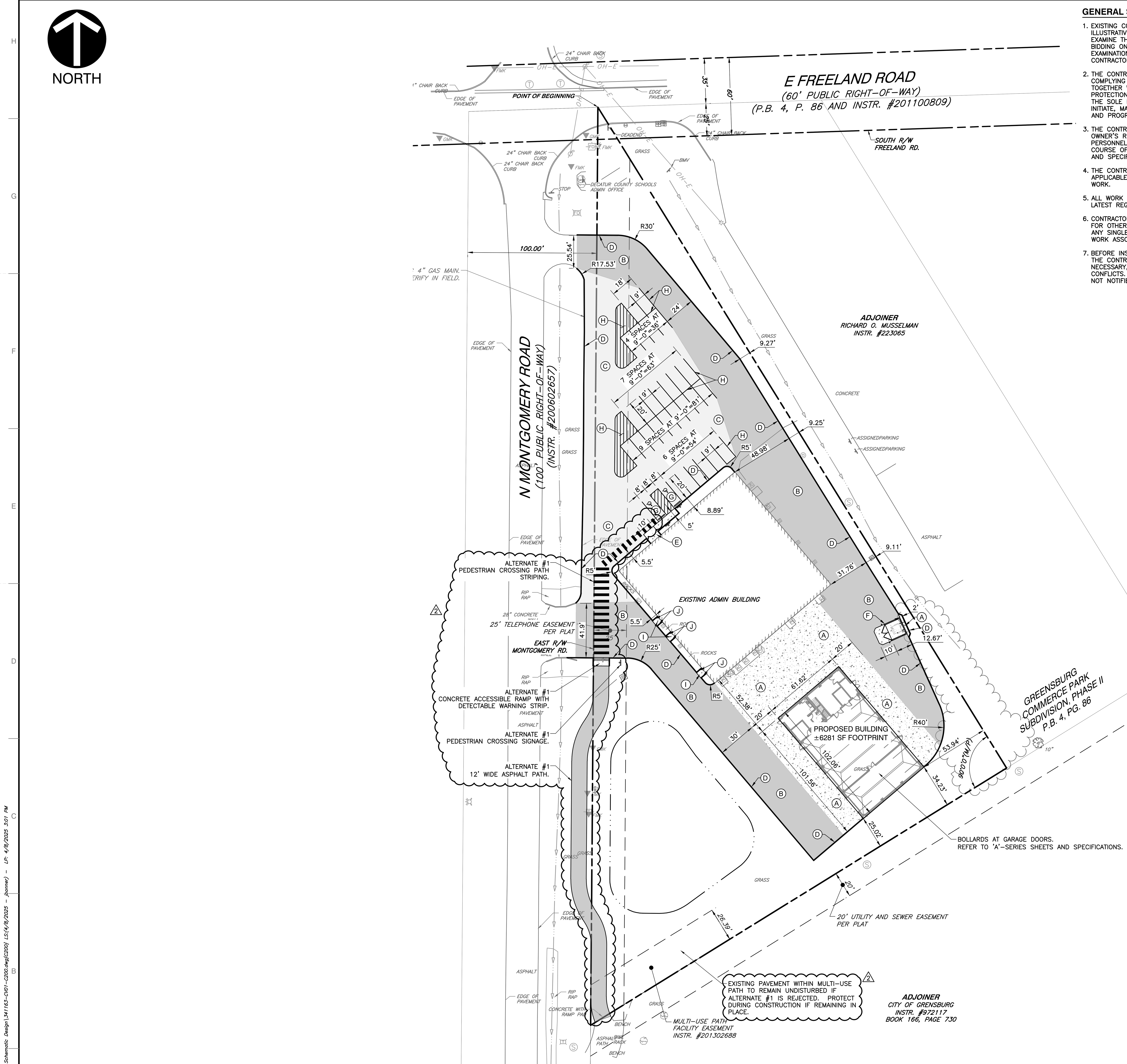

GENERAL SITE NOTES:

1. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
2. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
5. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
6. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
7. BEFORE INSTALLATION OF STORM OR SANITARY SEWER, OR OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.

GENERAL SITE LAYOUT NOTES:

1. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
2. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.
3. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES, INCLUDING IRRIGATION SLEEVING, PRIOR TO INSTALLATION OF PAVED SURFACES.
4. SITE WORK CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH TO ALL SURFACES. SITE WORK CONCRETE SHALL BE CLASS A (4,000 PSI @ 28 DAYS) UNLESS OTHERWISE NOTED.
5. ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
6. SITE DIMENSIONS SHOWN ARE TO THE FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT / RECORD DRAWINGS ON THE JOB SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
8. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF UTILITY SERVICE ENTRY LOCATIONS AND PRECISE BUILDING DIMENSIONS.
9. THIS SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR THE CONSTRUCTION IN ACCORDANCE WITH THE CITY OF GREENSBURG. NO CHANGES TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CHANGES MADE TO THE SITE LAYOUT WITHOUT APPROVAL IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CHANGES INCLUDE BUT ARE NOT LIMITED TO, INCREASED IMPERVIOUS PAVEMENT, ADDITION / DELETION OF PARKING SPACES, MOVEMENT OF CURB LINES, CHANGES TO DRAINAGE STRUCTURES AND PATTERNS, LANDSCAPING, ETC.

SITE LEGEND:

- PROPOSED LIGHT DUTY PAVEMENT
- PROPOSED HEAVY DUTY PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED PERMEABLE PAVERS
- PROPOSED RIGHT-OF-WAY PAVEMENT
- PROPOSED 1-1/2" MILL & RESURFACE
- PROPOSED ADA PARKING SYMBOL, PARKING BUMPER, SIGN, DETECTABLE WARNING STRIP

PROPOSED SITE KEY NOTES:

- (A) CONCRETE PAVEMENT; SEE DETAIL 204 ON SHEET C800
- (B) HEAVY DUTY PAVEMENT; SEE DETAIL 200 ON SHEET C800
- (C) LIGHT DUTY PAVEMENT; SEE DETAIL 201 ON SHEET C800
- (D) CONCRETE CURB; SEE DETAIL 205 ON SHEET C800 CURB HEIGHT VARIES; REFER TO SHEET C300 FOR CURB HEIGHT.
- (E) CONCRETE BELOW CANOPY. COORDINATE WITH 'A'-SERIES SHEETS.
- (F) TRASH ENCLOSURE; SEE DETAILS BY OTHERS. REFER TO 'A'-SERIES SHEETS AND SPECIFICATIONS.
- (G) ACCESSIBLE STALLS WITH SIGNAGE AND WHEEL STOPS; SEE DETAILS 211, 212, 214, 215, AND 216 ON SHEET C800.
- (H) 4" WIDE PAINTED STRIPING; COLOR=WHITE.
- (I) 5' WIDE CONCRETE SIDEWALK RAMP; SEE DETAIL 207 ON SHEET C800, SEE SHEET C300 FOR GRADES.
- (J) CONCRETE CURB TAPER. FLUSH AT DOOR, -4" AT PAVEMENT EDGE.

FLOOD NOTE:

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SCALE IN FEET
0 40' 80'

Indiana 811
Know what's below. Call before you dig.

JONATHAN M. PASYK
REGISTERED
No. PE12100829
STATE OF INDIANA
PROFESSIONAL ENGINEER
02/12/2025

REVISION RECORD

NO	DATE	DESCRIPTION
1	04/04/2025	ADDENDUM #1
2	04/08/2025	ADDENDUM #2

Civil & Environmental Consultants, Inc.
530 E. Ohio Street · Suite G - Indianapolis, IN 46204
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www.cecinc.com

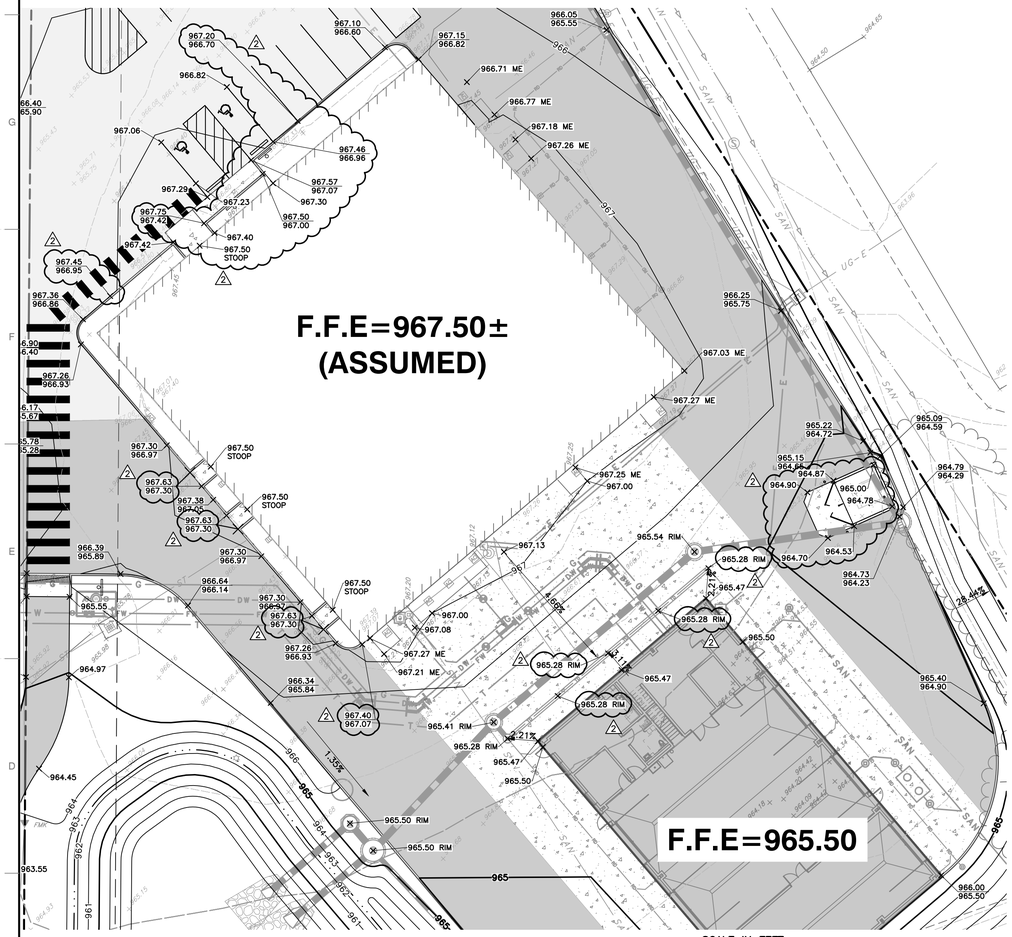
DECATUR COUNTY SCHOOLS TRANSPORTATION BUILDING
2020 N MONTGOMERY RD
GREENSBURG, INDIANA 47240

SITE PLAN

DATE:	FEBRUARY 12, 2025	DRAWN BY:	SRD
DWG SCALE:	1"=40'	CHECKED BY:	JMP
PROJECT NO:			341-163
APPROVED BY:			ACH

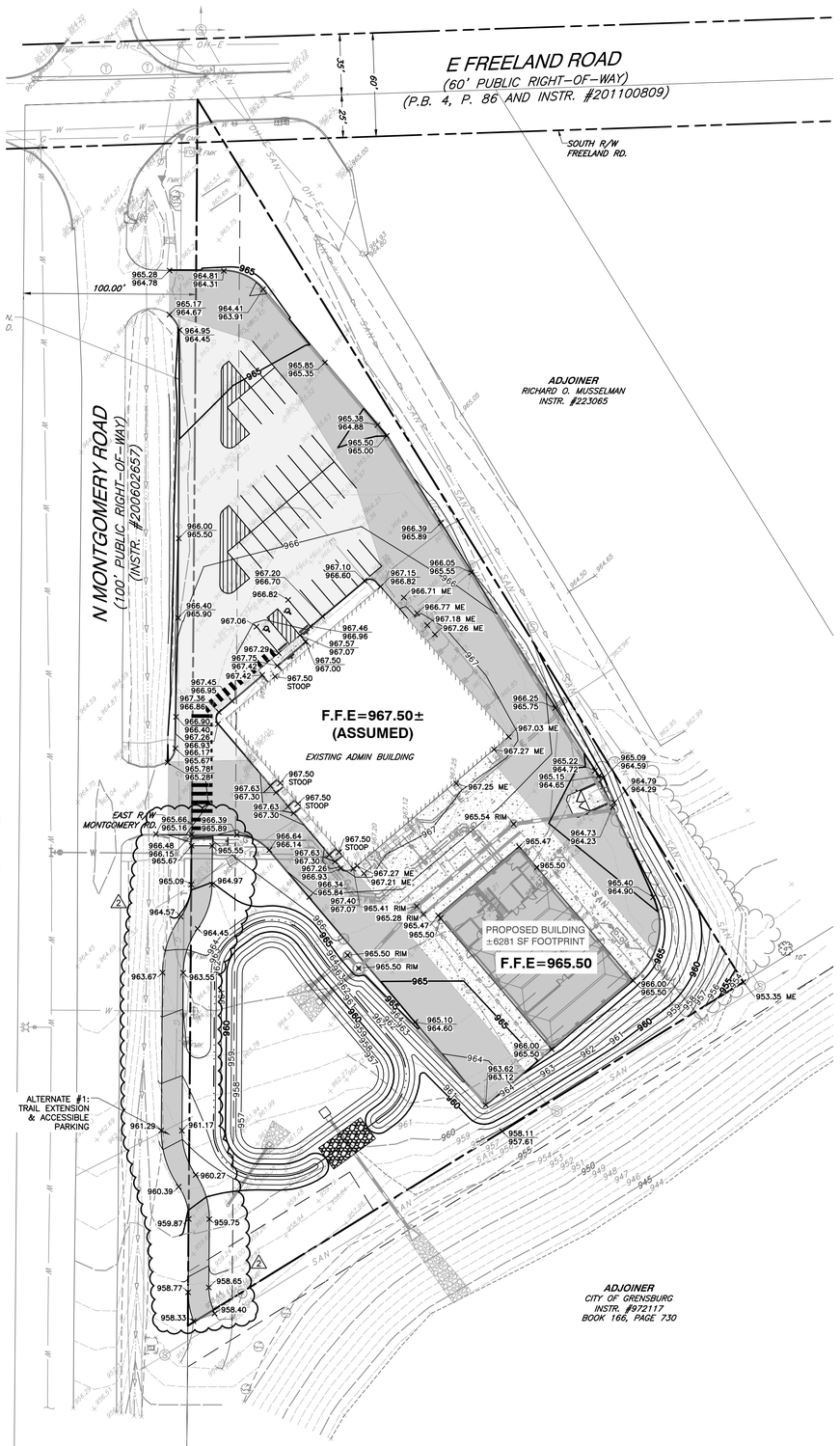
DRAWING NO.: **C200**

NORTH



GRADING ENLARGEMENT
SCALE: 1"=20'

SCALE IN FEET
0 20' 40'



SCALE IN FEET
0 40' 80'

GENERAL GRADING NOTES:

1. CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION CONTROL MEASURES PREPARED FOR THIS PROJECT.
2. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
3. CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
4. PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TO A DEPTH INDICATED ON THE LANDSCAPE PLANS (6" MINIMUM). PAVEMENT SLOPES ACROSS ACCESSIBLE PARKING STALLS AND ADJOINING ACCESS AISLES SHALL BE MAXIMUM 2%.
5. ALL EMBANKMENT SLOPES SHALL BE 3:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
6. ALL AREAS NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION CONTROL PLAN, UNLESS NOTED OTHERWISE.
7. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
8. DRAINAGE SYSTEMS SHALL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR. WITHIN 30 DAYS AFTER COMPLETION OF ON AND OFF-SITE DRAINAGE FACILITIES, THE REGISTERED PROFESSIONAL SHALL CERTIFY IN WRITING THE COMPLIANCE OF THE DRAINAGE FACILITIES PER LOCAL REQUIREMENTS.
9. CONTRACTOR SHALL PERPETUATE ALL DRAINS AND TILES ENCOUNTERED DURING CONSTRUCTION. COORDINATE WITH ENGINEER OF RECORD REGARDING THE CONNECTION TO THE PROPOSED STORM SEWER SYSTEM.
10. STORM STRUCTURES RECEIVING SUB-SURFACE DRAINS (SSD) SHALL HAVE BOTH CONNECTIONS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED.
11. ALL STORM STRUCTURE CASTINGS MUST BE LABELED "NO DUMPING, DRAINS TO WATERWAY".
12. ALL FILL SHALL BE FORMED FROM MATERIAL FREE OF VEGETABLE MATTER, RUBBISH, LARGE ROCK, AND OTHER DELETERIOUS MATERIAL. PRIOR TO PLACEMENT OF FILL, A SAMPLE OF THE PROPOSED FILL MATERIAL SHOULD BE SUBMITTED TO GEOTECHNICAL TESTING CONTRACTOR FOR APPROVAL. THE SURFACE OF EACH LAYER WILL BE APPROXIMATELY HORIZONTAL BUT WILL BE PROVIDED WITH SUFFICIENT LONGITUDINAL AND TRANSVERSE SLOPE TO PROVIDE FOR RUNOFF OF SURFACE WATER FROM EVERY POINT. THE FILL MATERIAL SHOULD BE PLACED IN LAYERS NOT TO EXCEED EIGHT (8) INCHES IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO SECURE SPECIFIED COMPACTIONS. EACH LAYER SHOULD BE UNIFORMLY COMPACTED BY MEANS OF SUITABLE EQUIPMENT OF THE TYPE REQUIRED BY THE MATERIALS COMPOSING THE FILL. UNDER NO CIRCUMSTANCES SHOULD A BULLDOZER OR SIMILAR TRACKED VEHICLES BE USED AS COMPACTING EQUIPMENT. MATERIAL CONTAINING AN EXCESS OF WATER SO THE SPECIFIED COMPACTION LIMITS CANNOT BE ATTAINED SHOULD BE SPREAD AND DRIED TO A MOISTURE CONTENT THAT WILL PERMIT PROPER COMPACTION. ALL FILL SHOULD BE COMPACTED TO THE SPECIFIED PERCENT OF THE MAXIMUM DENSITY OBTAINED IN ACCORDANCE WITH ASTM DENSITY TEST D-1557 (95 PERCENT OF MAXIMUM DRY DENSITY BELOW PAVEMENTS). SHOULD THE RESULTS OF THE IN-PLACE DENSITY TESTS INDICATE THAT THE SPECIFIED COMPACTION LIMITS ARE NOT OBTAINED; THE AREAS REPRESENTED BY SUCH TESTS SHOULD BE REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED LIMITS ARE REACHED.

GRADING LEGEND:

800	PROPOSED INDEX CONTOUR
798	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED DRAINAGE SWALE
	PROPOSED GRADE BREAK
	PROPOSED STORM SEWER LINE
	PROPOSED UNDERDRAIN
×766.90	PROPOSED SPOT ELEVATION
×798.50 / 798.00	PROPOSED CURB SPOT ELEVATION; TOP OF CURB ON TOP, GUTTER ELEVATION ON BOTTOM

ABBREVIATIONS:
TC = TOP OF CURB
BC = BOTTOM OF CURB
TW = TOP OF WALL
BW = BOTTOM OF WALL
TR = TOP OF RAMP
BR = BOTTOM OF RAMP
ME = MATCH EXISTING
RIM = RIM ELEVATION
FL = FLOW LINE

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TBM#1: MAGNAIL IN SOUTH SIDE OF LIGHT BASE LOCATED IN SOUTH PARKING LOT 47'± SOUTHWEST OF SOUTHWEST BUILDING CORNER.
ELEV. = 967.11

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ELEV. = 964.85

TBM#3: CHISELED SQUARE ON TOP OF CURB ON THE SOUTH SIDE OF FREELAND ROAD LOCATED 35'± NORTH OF THE NORTHEAST CORNER OF THE PARKING LOT AND 42'± NORTHEAST OF THE UTILITY POLE AT THE SOUTHEAST CORNER OF THE MONTGOMERY ROAD AND FREELAND ROAD INTERSECTION.
ELEV. = 965.02

Indiana 811 — Know what's below. Call before you dig.

JONATHAN M. PASTY — REGISTERED — No. PE12100829 — STATE OF INDIANA — PROFESSIONAL ENGINEER
02/12/2025

REVISION RECORD

NO	DATE	DESCRIPTION
1	04/08/2025	ADDENDUM #1
2	04/08/2025	ADDENDUM #2

CEC
Civil & Environmental Consultants, Inc.
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DECATUR COUNTY SCHOOLS
TRANSPORTATION BUILDING
2020 N MONTGOMERY RD
GREENSBURG, INDIANA 47240

GRADING PLAN

DATE:	FEBRUARY 12, 2025
DWG SCALE:	1"=40'
PROJECT NO:	341-163
APPROVED BY:	ACH
DRAWN BY:	SRD
CHECKED BY:	JMP

DRAWING NO.: C300

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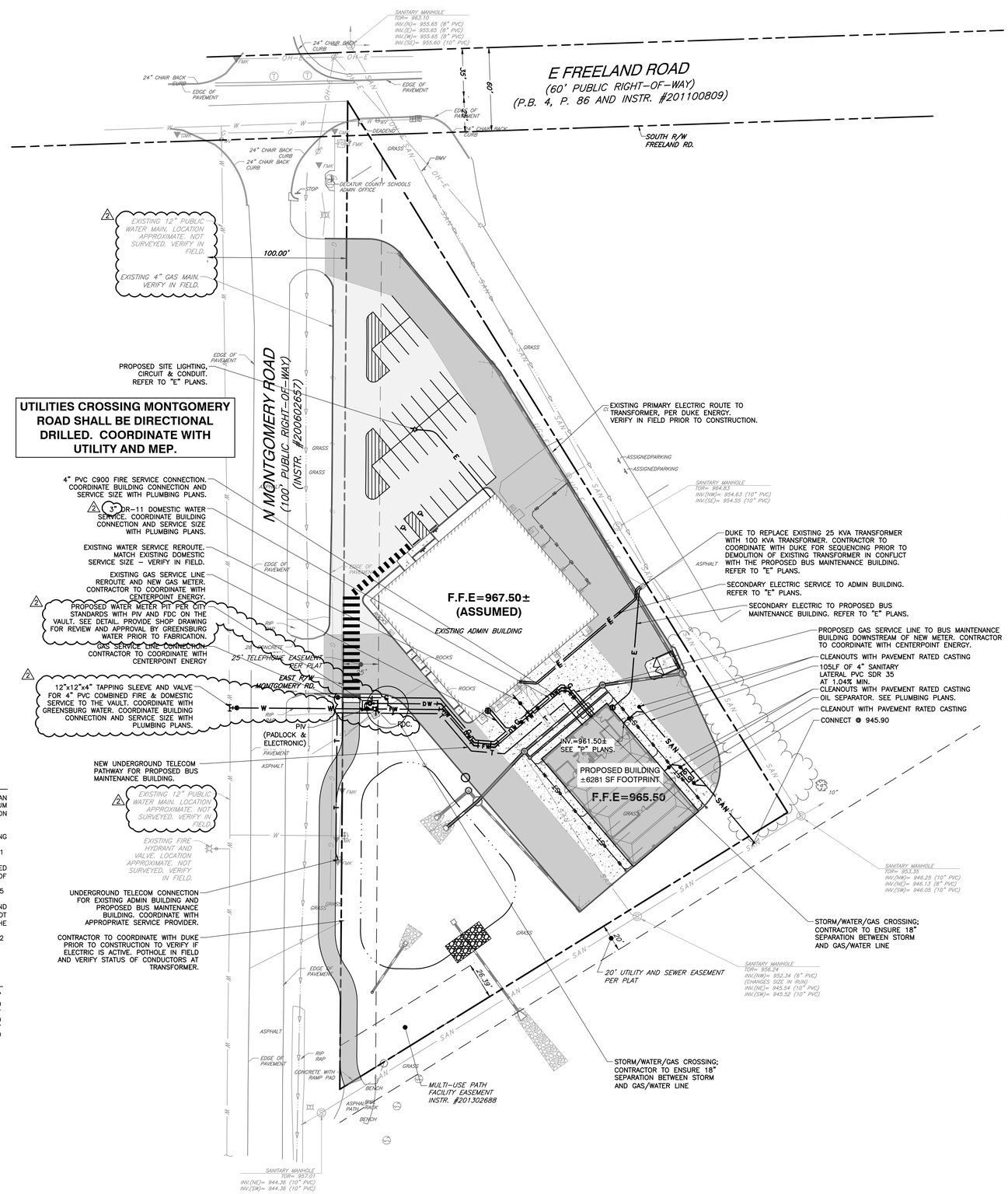
NORTH



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GENERAL UTILITY NOTES:

1. THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THE SITE. THE LOCATION AND SIZE OF THESE UTILITIES MAY BE APPROXIMATE. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY INACCURATE UTILITY INFORMATION INDICATED, IMPLIED, OR NOT INDICATED ON THESE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING, WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR, AT HIS EXPENSE WITH THE PERMISSION OF THE OWNER.
3. BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.
4. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.
5. FOR CLARITY OF THESE DRAWINGS, PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.
6. ALL NEW WATER LINES SHALL HAVE A MINIMUM OF 54 INCHES OF COVER.
7. MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN NEW WATER AND SANITARY SEWER LINES. IF 18 INCHES OF CLEARANCE IS NOT PROVIDED THEN THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS WITHIN TEN FEET OF THE WATER LINE.
8. NEW 6" AND 8" SANITARY LATERALS SHALL BE SDR-35, SCHEDULE 80 OR SCHEDULE 40 PVC PIPE CONFORMING TO ASTM D2241, AND SHALL MEET THE DEFLECTION STANDARDS OF ASTM D-3303.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES MENTIONED ABOVE UNLESS OTHERWISE NOTED IN THE CONTRACT OR SPECIFICATIONS. ALL ASSOCIATED BONDING REQUIREMENTS AND COSTS ARE INCIDENTAL TO THE CONTRACT.
10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE ENGINEERING PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
11. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
12. CONTRACTOR IS RESPONSIBLE FOR ELECTRIC, TELEPHONE, AND CABLE CONDUITS AND TRENCHING. COORDINATE WITH THE LOCAL UTILITY PROVIDERS AND MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR SIZES AND QUANTITIES.
13. WATER AND FIRE SERVICE SIZES AND CONNECTION LOCATIONS SHALL BE COORDINATED WITH THE MECHANICAL, ELECTRICAL AND PLUMBING PLANS.

UTILITY LEGEND:

- PROPOSED STORM SEWER LINE
- SAN — PROPOSED SANITARY LINE
- E — PROPOSED ELECTRIC LINE
- T — PROPOSED TELEPHONE LINE
- FO — PROPOSED FIBER OPTIC LINE
- G — PROPOSED GAS LINE
- W — PROPOSED WATER LINE
- OH-W — PROPOSED OVERHEAD UTILITY LINE
- PROPOSED CONDUIT
- PROPOSED LIGHT POLE
- PROPOSED WALL MOUNTED FDC, HYDRANT, WALL PIV, WATER VALVE, FREE STANDING FDC
- PROPOSED SANITARY MANHOLE, CLEAN OUT
- PROPOSED ELECTRIC TRANSFORMER

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JONATHAN M. PASTY REGISTERED No. PE12100829 STATE OF INDIANA PROFESSIONAL ENGINEER
02/12/2025

REVISION RECORD

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DECATUR COUNTY SCHOOLS
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2020 N MONTGOMERY RD
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UTILITY PLAN

DATE:	FEBRUARY 12, 2025
DWG SCALE:	1"=40'
PROJECT NO:	341-163
DRAWN BY:	SRD
CHECKED BY:	JMP
APPROVED BY:	ACH

DRAWING NO.:
C500

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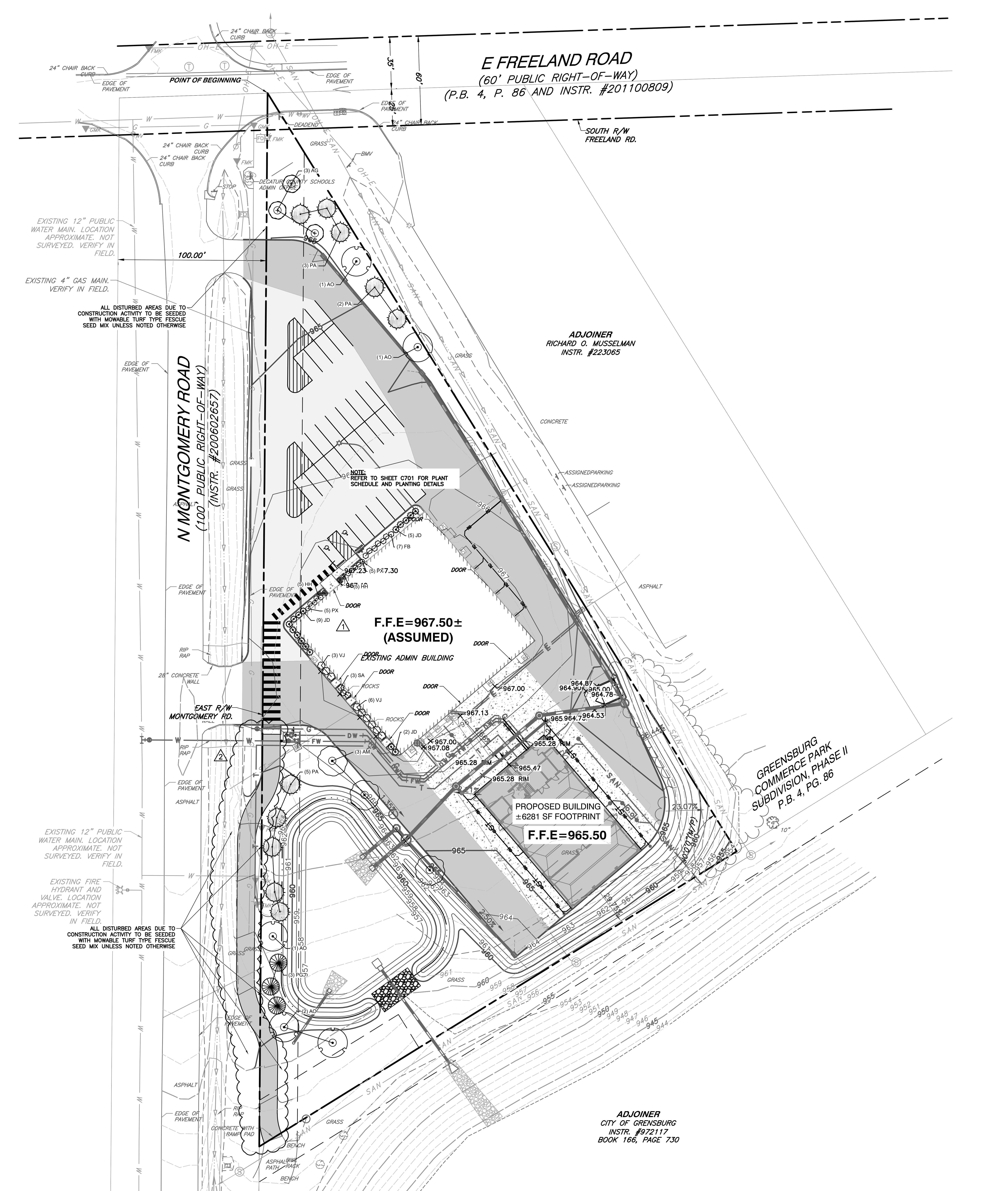

NORTH

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UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 2403223270 AND 2403223323 WERE ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICE, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

GENERAL LANDSCAPE NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY, OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
2. CONTRACTOR SHALL REQUEST UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF WORK. VERIFY ALL EXISTING UTILITIES AND CONDITIONS PRIOR TO ANY EXCAVATION AT LEAST 72 HOURS PRIOR TO LANDSCAPE INSTALLATION.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
4. CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT/RECORD DRAWINGS ON THE JOB SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
5. NO CHANGES TO THE SITE LANDSCAPE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
6. CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUALITY AND QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING AS SHOWN ON DRAWINGS. PLANT MATERIAL DELIVERED TO SITE SHALL BE STORED IN SECURE LOCATION NOT IN CONFLICT WITH OTHER CONSTRUCTION OPERATIONS AND MAINTAINED UNTIL TIME OF INSTALLATION.
7. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT "AMERICAN ASSOCIATION OF NURSERY STOCK. ANSI Z60.1-2004", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN.
8. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED.
9. ALL PLANTS SHALL BE PLANTED SO THAT THE ROOT CROWN IS PLANTED AT GRADE LEVEL.
10. ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING. TWINE OR ROPE SHALL BE REMOVED FROM AROUND CROWN OF TRUNK TO PREVENT GIRDLING OF TREE OR SHRUB.
11. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
12. CONTRACTOR TO REMOVE ALL LANDSCAPE DEBRIS FROM PLANTING OPERATIONS FROM THE PROJECT SITE. NO OPEN BURNING SHALL BE PERMITTED ON SITE.
13. THE DAY PRIOR TO PLANTING, THE LOCATIONS OF ALL TREES AND SHRUBS SHALL BE STAKED AND PLANTING BEDLINE OUTLINES DEFINED FOR APPROVAL BY OWNER(S).
14. THE LANDSCAPE CONTRACTOR SHALL REFER TO CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
15. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE (1) CALENDAR YEAR FROM THE TIME OF SUBSTANTIAL COMPLETION OF PROJECT. AT THE END OF THIS PERIOD, ANY PLANT MATERIAL DEEMED UNSATISFACTORY BY LANDSCAPE ARCHITECT SHALL BE REPLACED AT NO ADDITIONAL COST TO OWNER.
16. IF THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE PLANT SCHEDULE, THE PLANS SHALL TAKE PRECEDENCE.
17. CONTRACTOR SHALL REPAIR ANY DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
18. STAKES AND OR GUY WIRES SHALL BE REMOVED AFTER ONE (1) YEAR OF INSTALLATION.
19. ALL EXISTING LANDSCAPING SHALL BE MAINTAINED DURING CONSTRUCTION. ANY MATERIAL DEEMED DEAD OR UNSATISFACTORY BY LANDSCAPE ARCHITECT, WILL BE REPLACED EQUIVALENT IN SIZE AND SHAPE AT NO COST TO OWNER.
20. IF PLANT SPECIES SPECIFIED ARE FOUND TO BE UNAVAILABLE OR NOT IN SUFFICIENT QUANTITIES AT TIME OF PLANTING, THE CONTRACTOR MAY SUBSTITUTE SPECIES UPON WRITTEN APPROVAL BY LANDSCAPE ARCHITECT.
21. LANDSCAPING SHALL BE SUBSTANTIALLY INSTALLED PRIOR TO THE ISSUANCE OF OCCUPANCY PERMIT FOR THE PRINCIPAL STRUCTURE ON LOT, WEATHER PERMITTING, OR, IN THE EVENT OF ADVERSE WEATHER CONDITIONS, WITHIN NINETY (90) DAYS FOLLOWING THE COMMENCEMENT OF THE NEXT SUCCESSIVE PLANTING SEASON FOLLOWING ISSUANCE OF OCCUPANCY PERMIT.
22. ALL LANDSCAPE PLANTINGS TO BE MAINTAINED BY CONTRACTOR FOR 60 DAYS FOLLOWING FINAL INSPECTION BY LANDSCAPE ARCHITECT. MAINTENANCE TO INCLUDE WATERING, WEED REMOVAL, MULCHING, MOWING AND ALL OTHER NECESSARY OPERATIONS REQUIRED FOR PROPER ESTABLISHMENT OF PLANTINGS AND TURF AREAS.

PLANTING SOIL PREPARATION NOTES:

1. BEFORE MIXING, CLEAN TOPSOIL OF ROOTS, PLANTS, SODS, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
2. MIX SOIL AMENDMENTS AS SPECIFIED ON PLANTING DETAILS. MIX FERTILIZERS WITH TOPSOIL AT RATES INDICATED. DELAY MIXING FERTILIZER IF PLANTING DOES NOT FOLLOW PLACING OF PLANTING SOIL WITHIN A FEW DAYS.
3. FOR TREE PIT OR TRENCH BACKFILL, MIX PLANTING SOIL BEFORE BACKFILLING AND STOCKPILE AT SITE.
   PROVIDE SPECIFIED FERTILIZER AT A RATE OF:
   SHADE TREE: 2 POUNDS PER INCH OF CALIPER
   SMALL TREE: 1 POUND PER INCH OF CALIPER
4. FOR PLANTING BEDS, MIX PLANTING SOIL EITHER PRIOR TO PLANTING OR APPLY ON SURFACE OF TOPSOIL AND MIX THOROUGHLY BEFORE PLANTING.
   APPLY SPECIFIED COMMERCIAL FERTILIZER AT RATES AND THOROUGHLY MIX INTO UPPER 2" OF TOPSOIL. PROVIDE SPECIFIED FERTILIZER AT THE FOLLOWING RATES:
   SHRUBS: 1/4 POUND PER FOOT HEIGHT OR SPREAD
   EVERGREENS: 1/8 POUND PER FOOT HEIGHT OR SPREAD
   HERBACEOUS PLANTS: 1/8 POUND PER PLANT.

5 FOR PARKING LOT ISLANDS EXCAVATE MIN. 24" DEPTH TO REMOVE ALL CONSTRUCTION DEBRIS. BACKFILL WITH BLENDED MIX OF 60% TOPSOIL, 305 COMPOST AND 10% SAND MIX. COMPACT BACKFILL IN 8" LIFTS TO PREVENT SETTLING AFTER PLANT INSTALLATION.

6. GROUNDCOVER AND PERENNIAL PLANT BED PREPARATION: TILL SOIL IN BEDS TO A MINIMUM DEPTH OF 8" AND MIX WITH SPECIFIED FERTILIZERS. USED FERTILIZER AT A RATE OF 2 POUNDS PER 100 SQ.FT.

7. FINAL GRADING AND PLACEMENT OF TOPSOIL FOR TURF & PLANTING AREAS:
   A. LOOSEN SUBGRADE AND TURF AREAS TO A MINIMUM DEPTH OF 4"- 6". REMOVE STONES MEASURING OVER 1-1/2" IN ANY DIMENSION. REMOVE STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER. LIMIT PREPARATION TO AREAS WHICH WILL BE PLANTED PROMPTLY AFTER PREPARATION.
   B. SPREAD TOPSOIL TO MINIMUM DEPTH REQUIRED TO MEET LINES, GRADES, AND ELEVATIONS SHOWN, AFTER LIGHT ROLLING AND NATURAL SETTLEMENT.
   C. MINIMUM DEPTH OF TOPSOIL SHALL BE 4" UNLESS OTHERWISE INDICATED. IN TREE AND SHRUB PLANTING AREAS THERE SHALL BE 18"-24" TOPSOIL AROUND THE PLANT, AT LEAST IN AN AREA EQUAL TO THE PLANT'S MATURE CANOPY SIZE.
   D. PLACE APPROXIMATELY1/2 OF TOTAL AMOUNT OF TOPSOIL REQUIRED. WORK INTO TOP OF LOOSENED SUBGRADE TO CREATE A TRANSITION LAYER AND THEN PLACE REMAINDER OF TOPSOIL.
   E. ALL TURF AREAS ADJACENT TO WALKS, CONTRACTOR TO HOLD SOIL DOWN 1" FROM PAVEMENT ELEVATION.
   F. AREAS ADJACENT TO STRUCTURES AND CURB ISLANDS, SHALL BE FREE OF GRAVEL AND DEBRIS, LOOSE COMPACTED HARDPAN- MIN. DEPTH OF 18" BEFORE PLACEMENT OF TOPSOIL.

JONATHAN M. PASYK
REGISTERED
No. PE12100829
STATE OF INDIANA
PROFESSIONAL ENGINEER
02/12/2025

Indiana 811 Know what's below. Call before you dig.

REVISION RECORD

NO	DATE	DESCRIPTION
1	04/04/2025	ADDENDUM #1
2	04/08/2025	ADDENDUM #2

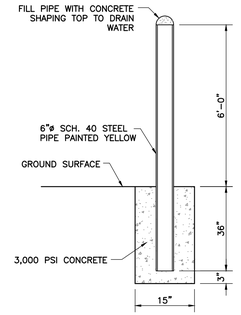
Civil & Environmental Consultants, Inc.
530 E. Ohio Street · Suite G - Indianapolis, IN 46204
317-655-7777 · 877-746-0749
www.cecinc.com

DECATUR COUNTY SCHOOLS TRANSPORTATION BUILDING
2020 N MONTGOMERY RD
GREENSBURG, INDIANA 47240

LANSCAPE PLAN

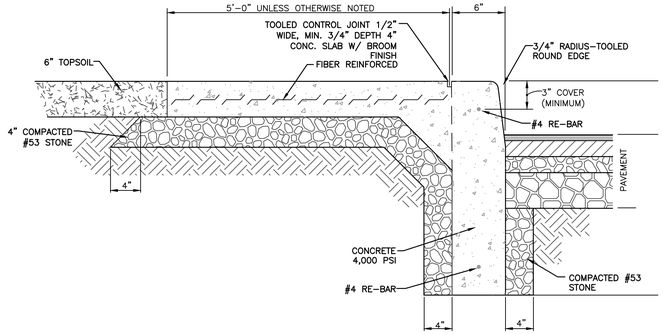
DATE:	FEBRUARY 12, 2025	DRAWN BY:	SRD
DWG SCALE:	1"=40'	CHECKED BY:	JMP
PROJECT NO:			341-163
APPROVED BY:			ACH

DRAWING NO.:
C700



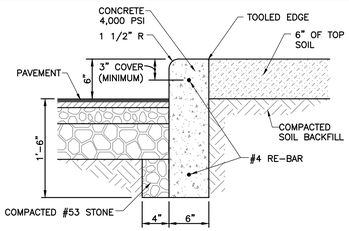
DETAIL 213- PIPE BOLLARD

NOT TO SCALE



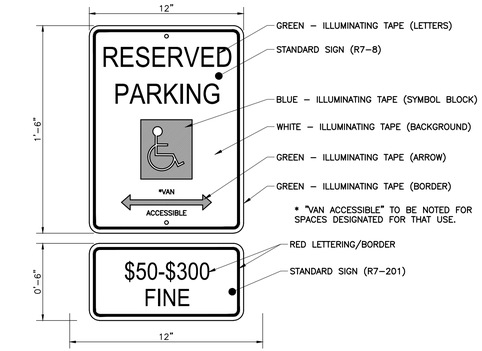
DETAIL 209 - COMBINED CONCRETE WALK AND CURB

NOT TO SCALE



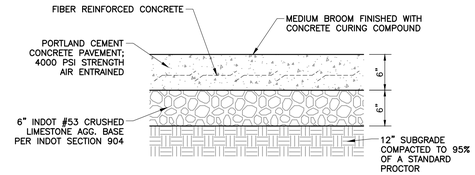
DETAIL 205 - 6" STRAIGHT CONCRETE CURB

NOT TO SCALE



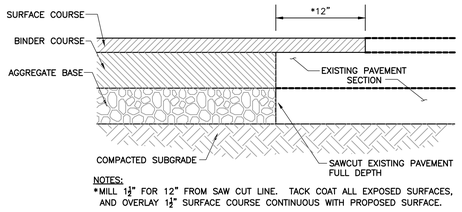
DETAIL 216 - ADA ACCESSIBLE PARKING SIGN DETAIL

NOT TO SCALE



DETAIL 204 - CONCRETE PAVEMENT SECTION

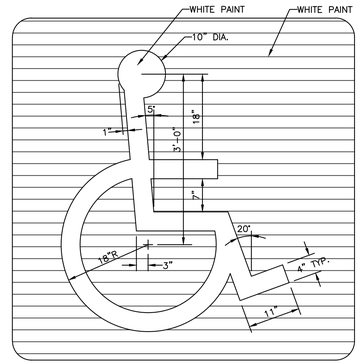
NOT TO SCALE



NOTES:
*MILL 1½" FOR 12" FROM SAW CUT LINE. TACK COAT ALL EXPOSED SURFACES, AND OVERLAY 1½" SURFACE COURSE CONTINUOUS WITH PROPOSED SURFACE.

DETAIL 203 - LAP JOINT

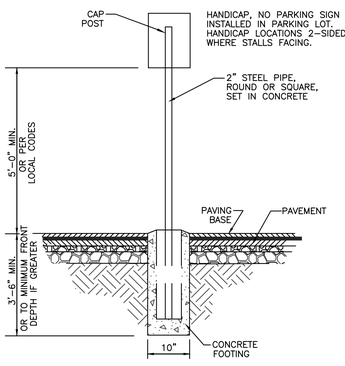
NOT TO SCALE



NOTE: ALL STRIPES TO BE 4" PAINTED WHITE

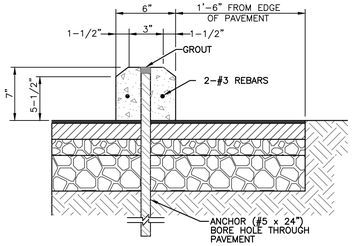
DETAIL 215 - PAINTED ACCESSIBLE SYMBOL

NOT TO SCALE

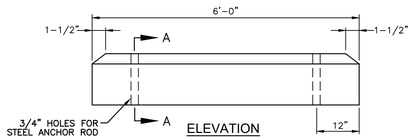


DETAIL 212 - SIGNAGE BASE- ONLY

NOT TO SCALE

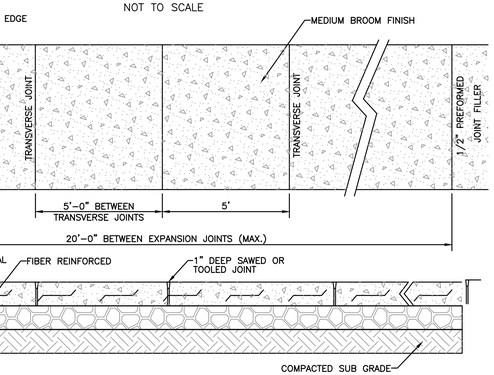


SECTION A-A



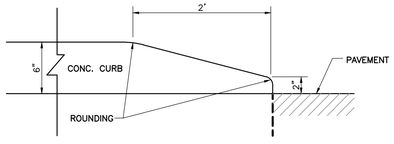
DETAIL 211 - PRECAST CONCRETE WHEEL STOP

NOT TO SCALE



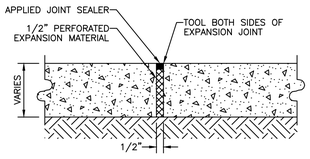
DETAIL 207 - CONCRETE SIDEWALK DETAIL

NOT TO SCALE



DETAIL 210- CONCRETE CURB TAPER

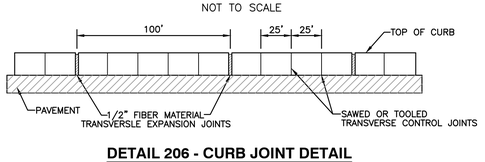
NOT TO SCALE



EXPANSION JOINT DETAIL

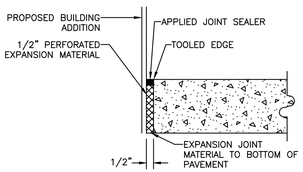
DETAIL 208 - CONCRETE JOINT DETAILS

NOT TO SCALE

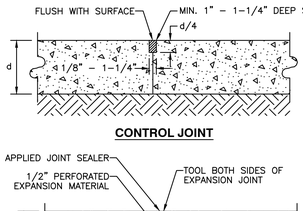


DETAIL 206 - CURB JOINT DETAIL

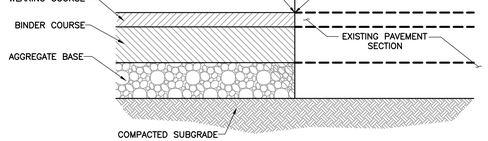
NOT TO SCALE



EXPANSION JOINT AT BUILDING DETAIL



CONTROL JOINT



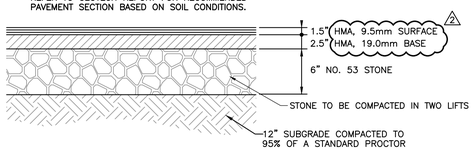
NOTES:
1. PROVIDE TACK COAT ALONG SAWCUT TO BIND EXISTING PAVEMENT TO NEW PAVEMENT.FOR AREAS WITH PATCHING AND OVERLAY,PROVIDE TACK COAT TO BIND EXISTING PAVEMENT WITH NEW ASPHALT.

DETAIL 202 - PAVEMENT SAWCUT

NOT TO SCALE

NOTE:

PAVEMENT SECTION PROVIDED AS A GUIDE. REFER TO GEOTECH REPORT FOR RECOMMENDED PAVEMENT SECTION BASED ON SOIL CONDITIONS.

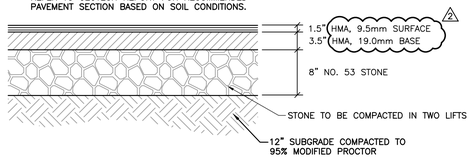


DETAIL 201 - LIGHT DUTY ASPHALT PAVEMENT SECTION

NOT TO SCALE

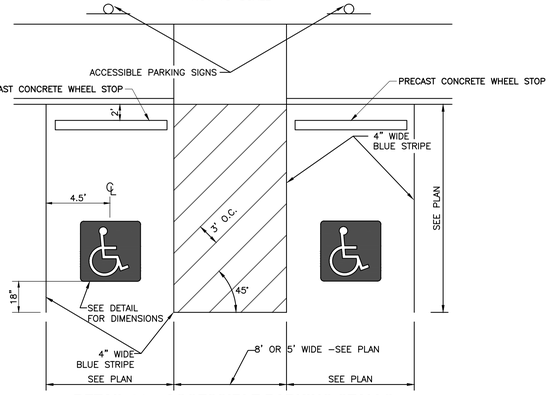
NOTE:

PAVEMENT SECTION PROVIDED AS A GUIDE. REFER TO GEOTECH REPORT FOR RECOMMENDED PAVEMENT SECTION BASED ON SOIL CONDITIONS.



DETAIL 200 - HEAVY DUTY ASPHALT PAVEMENT SECTION

NOT TO SCALE



DETAIL 214- ACCESSIBLE PARKING STALLS

NOT TO SCALE

REVISION RECORD

NO	DATE	DESCRIPTION
1	04/08/2025	ADDENDUM #1

CEC

Civil & Environmental Consultants, Inc.
530 E. Ohio Street · Suite G · Indianapolis, IN 46204
317-655-7777 · 877-746-0749
www.cecinc.com

DECATUR COUNTY SCHOOLS
TRANSPORTATION BUILDING
2020 N MONTGOMERY RD
GREENSBURG, INDIANA 47240

SITE DETAILS

DATE:	FEBRUARY 12, 2025	DRAWN BY:	SRD
DWG SCALE:	AS NOTED	CHECKED BY:	JMP
PROJECT NO:			341-163
APPROVED BY:			ACH

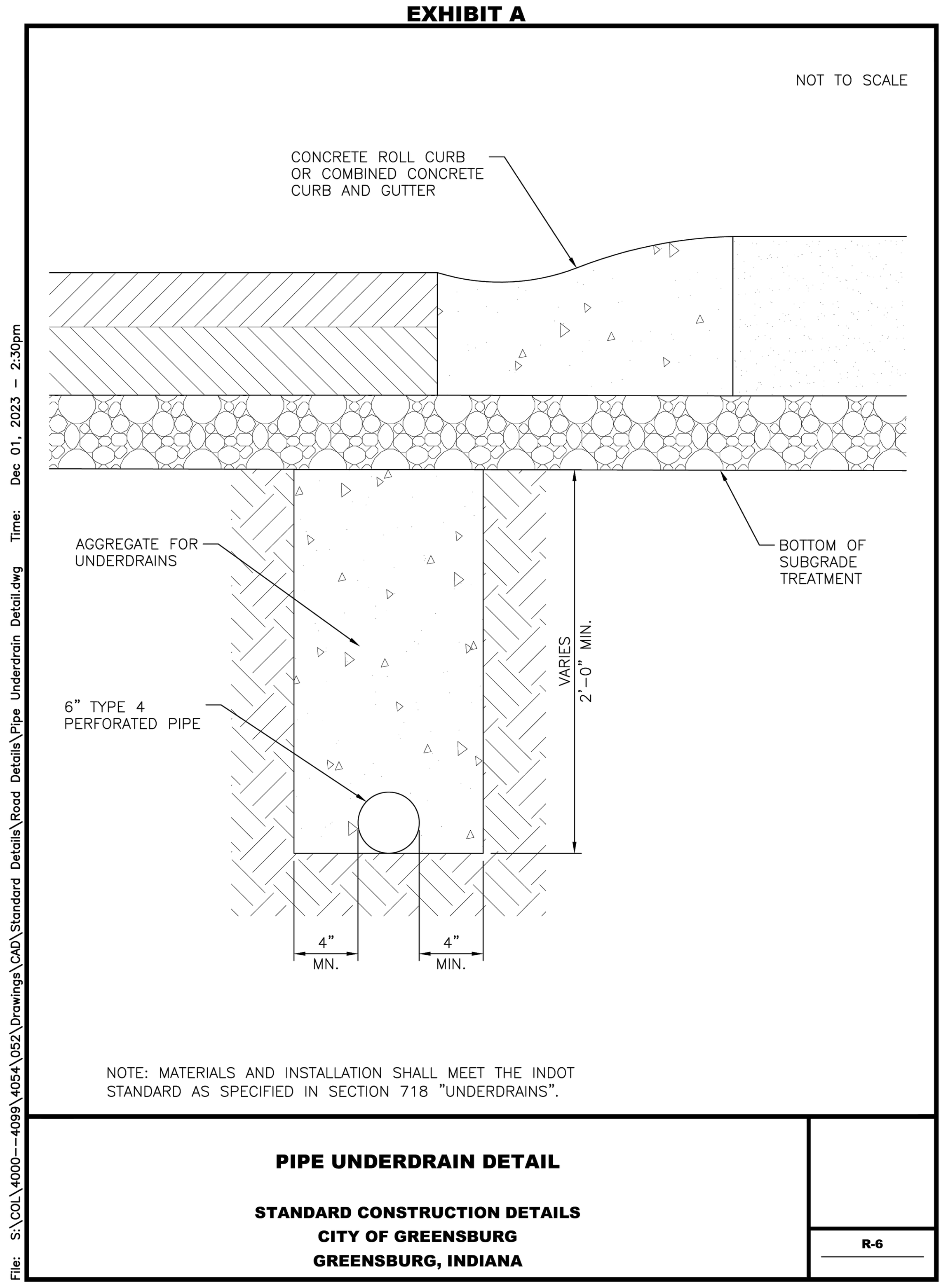
JONATHAN M. PASTY
REGISTERED
No. PE12100829
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/12/2025

DRAWING NO.:

C800

P:\340-0001\341-1631-CADD\Dwg\C001 Schematic Design\341163-C001-C800.dwg(C800) LS(4/8/2025 - Jersey) LP(4/8/2025 3:03 PM

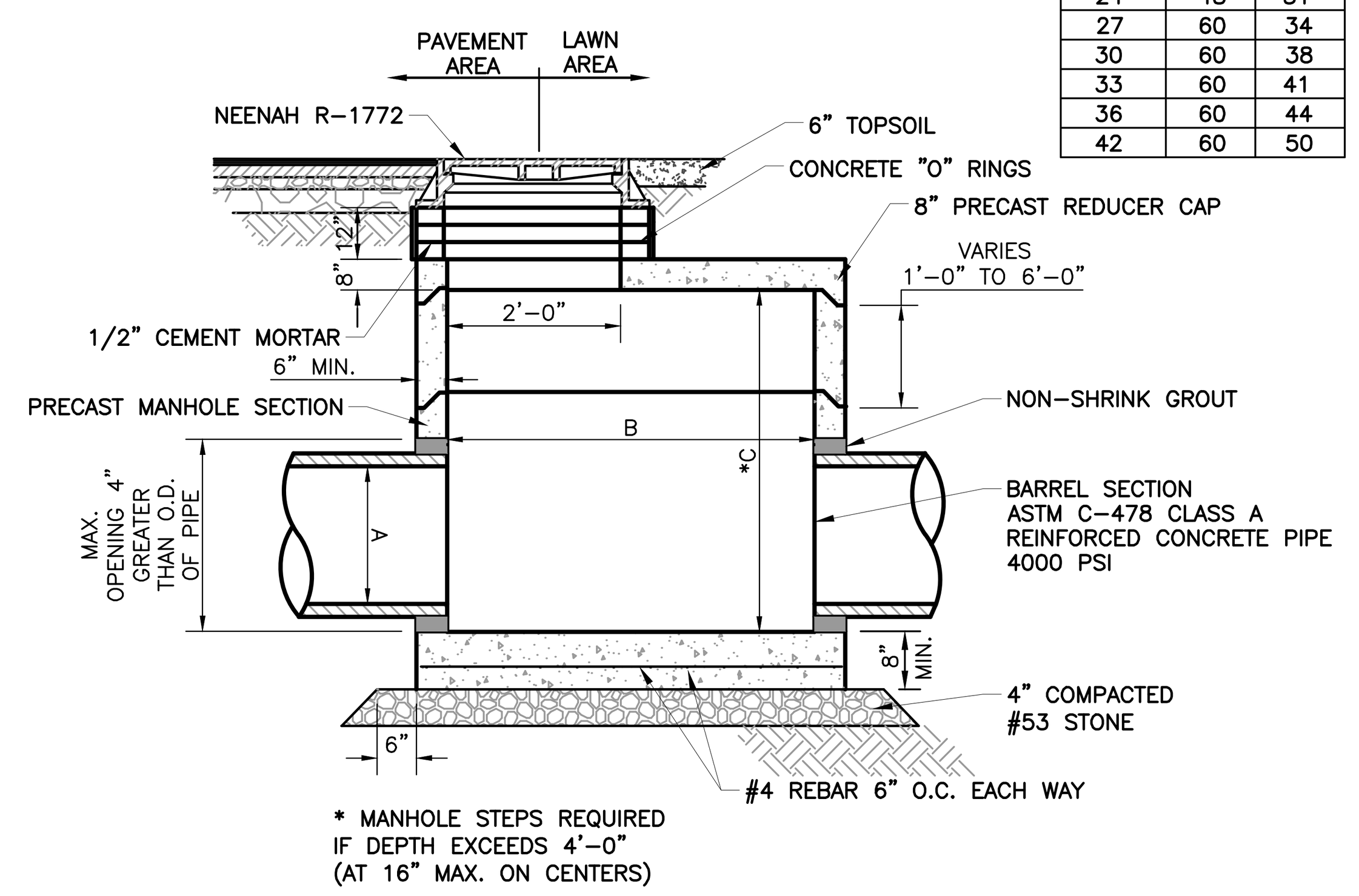
EXHIBIT A



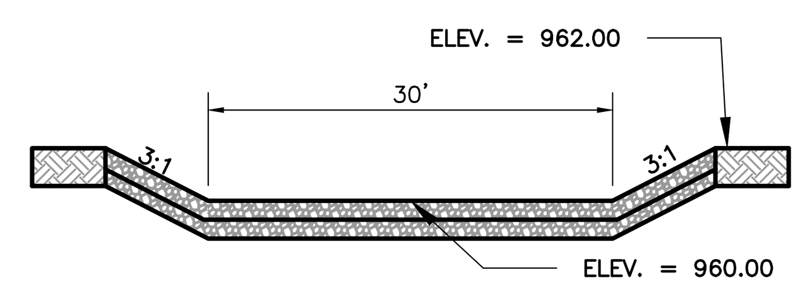
File: S:\CDL\4000—4099\4054\052\Drawings\CAD\Standard Details\Road Details\Pipe Underdrain Detail.dwg Time: Dec 01, 2023 – 2:30pm

DETAIL 400 - UNDERDRAIN DETAIL
NOT TO SCALE

DIMENSIONS (INCHES)		
A (MAX)	B (I.D.)	C (MIN)
18	48	25
21	48	28
24	48	31
27	60	34
30	60	38
33	60	41
36	60	44
42	60	50

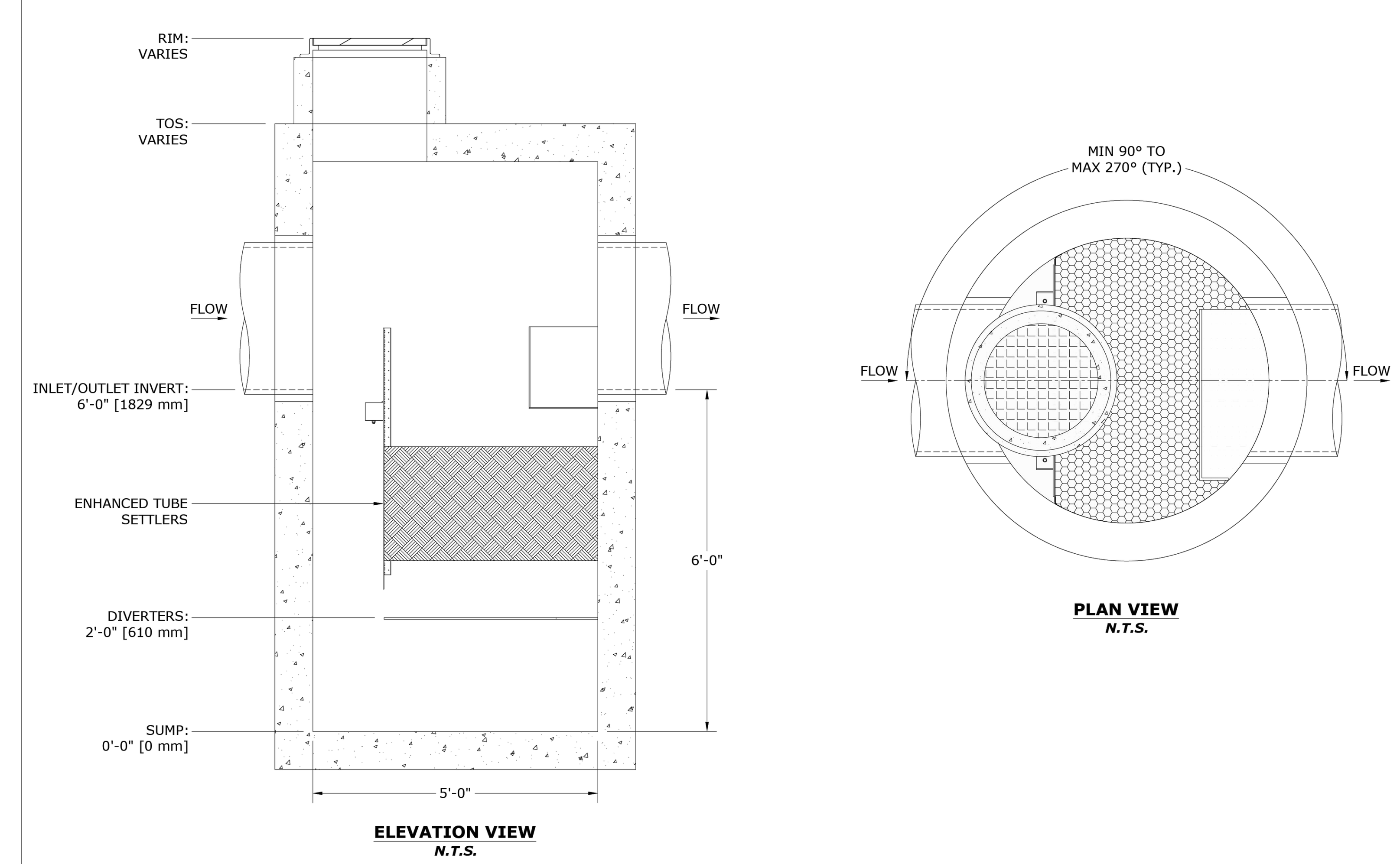


DETAIL 407 - STORM MANHOLE
NOT TO SCALE



DETAIL 409 - EMERGENCY OVERFLOW WEIR
NOT TO SCALE

SITE SPECIFIC DATA			
STRUCTURE ID			SSET-5
WATER QUALITY FLOW RATE (CFS)			NOTE 8
PEAK FLOW RATE (CFS)			-
SEDIMENT STORAGE CAPACITY (CF)			22.9
RIM ELEVATION			-
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE	-	-	30" OR LESS (TYP.)
OUTLET PIPE	-	-	



DESIGN NOTES:

1. DESIGN LOADING
   a. LOAD RATING: AASHTO HS-20
   b. ALLOWABLE COVER: 0.50' [152 mm] TO 5.00' [1524 mm]. CONTACT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
   c. WATER TABLE AT OR BELOW OUTLET PIPE INVERT ELEVATION.
   d. NO LATERAL SURCHARGE FROM ADJACENT STRUCTURES SUCH AS VEGETATION, BUILDINGS, WALLS, OR FOUNDATIONS.
2. ENGINEER OF RECORD TO CONFIRM THE DESIGN LOADINGS MEET PROJECT REQUIREMENTS. CONTACT STORMTRAP FOR ALTERNATIVE DESIGN LOAD OPTIONS.

GENERAL NOTES:

1. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS, WEIGHTS, AND ACCESSORIES, PLEASE CONTACT YOUR STORMTRAP REPRESENTATIVE.
2. CONCRETE COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C478.
3. CONTRACTOR TO INSTALL THE STRUCTURE IN ACCORDANCE WITH ASTM C1821.
4. CONTRACTOR TO PROVIDE ALL LABOR AND EQUIPMENT REQUIRED TO OFFLOAD AND INSTALL UNIT.
5. CONTRACTOR TO PROVIDE AND INSTALL ALL PIPES, FRAMES, COVERS, HATCHES, AND RISERS UNLESS SPECIFIED OTHERWISE.
6. CONTRACTOR TO ADD JOINT SEALANT (PROVIDED BY STORMTRAP) BETWEEN ALL STRUCTURE SECTIONS.
7. THE STANDARD STORMSETTLER CONFIGURATION IS SHOWN. CATCH BASIN, MULTI-PIPE, & HORSESHOE CONFIGURATIONS MAY BE AVAILABLE DEPENDING ON LOCAL REGULATIONS.
8. MAXIMUM WATER QUALITY FLOW RATE:
   a. 2.19 CFS PER NJDEP CERTIFICATION (50%)
   b. 1.45 CFS PER OK-110 NJCAT VERIFICATION (80%)

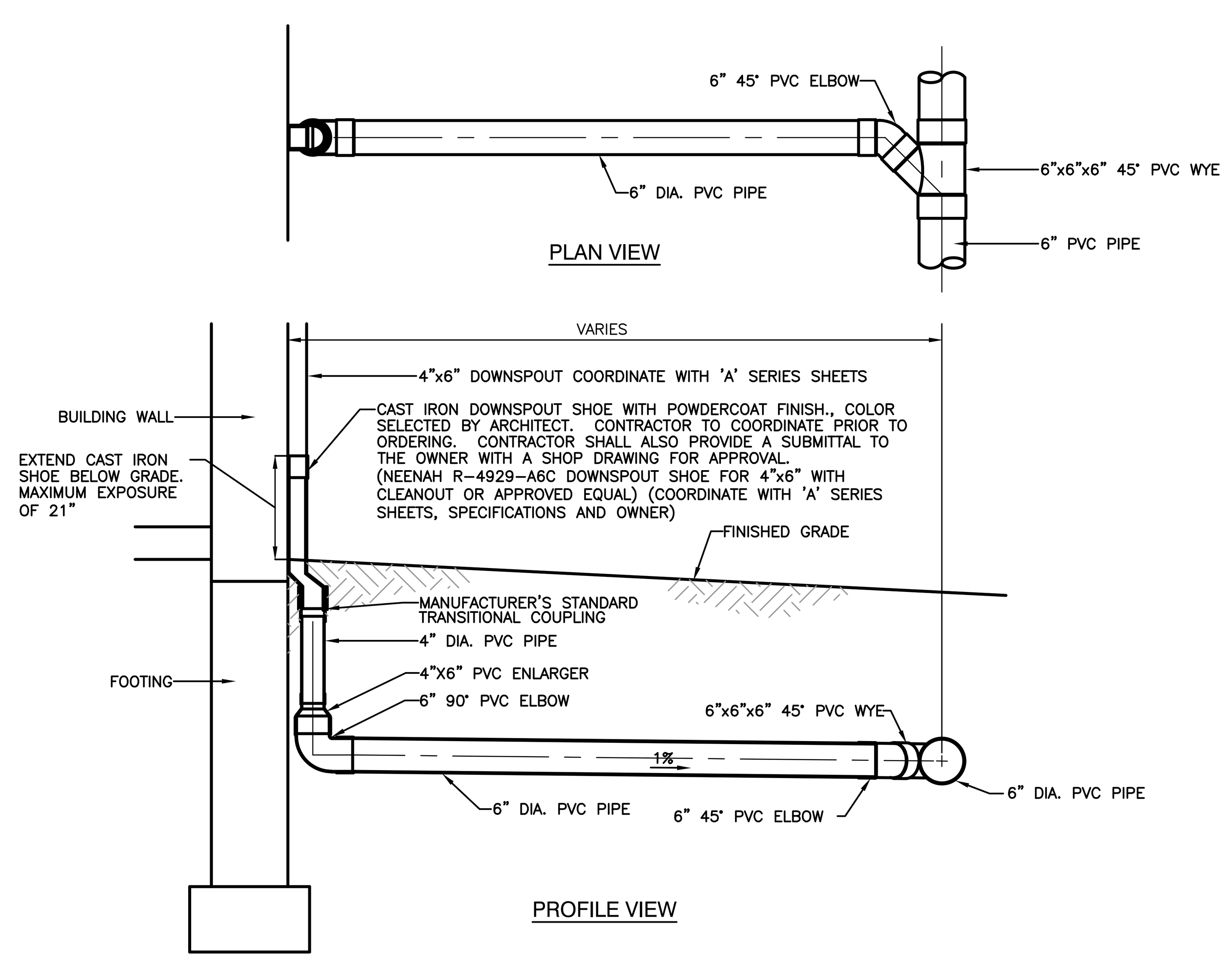
DRAWINGS ARE FOR REFERENCE ONLY AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.

StormSettler™
STORMSETTLER 5 STANDARD DETAIL

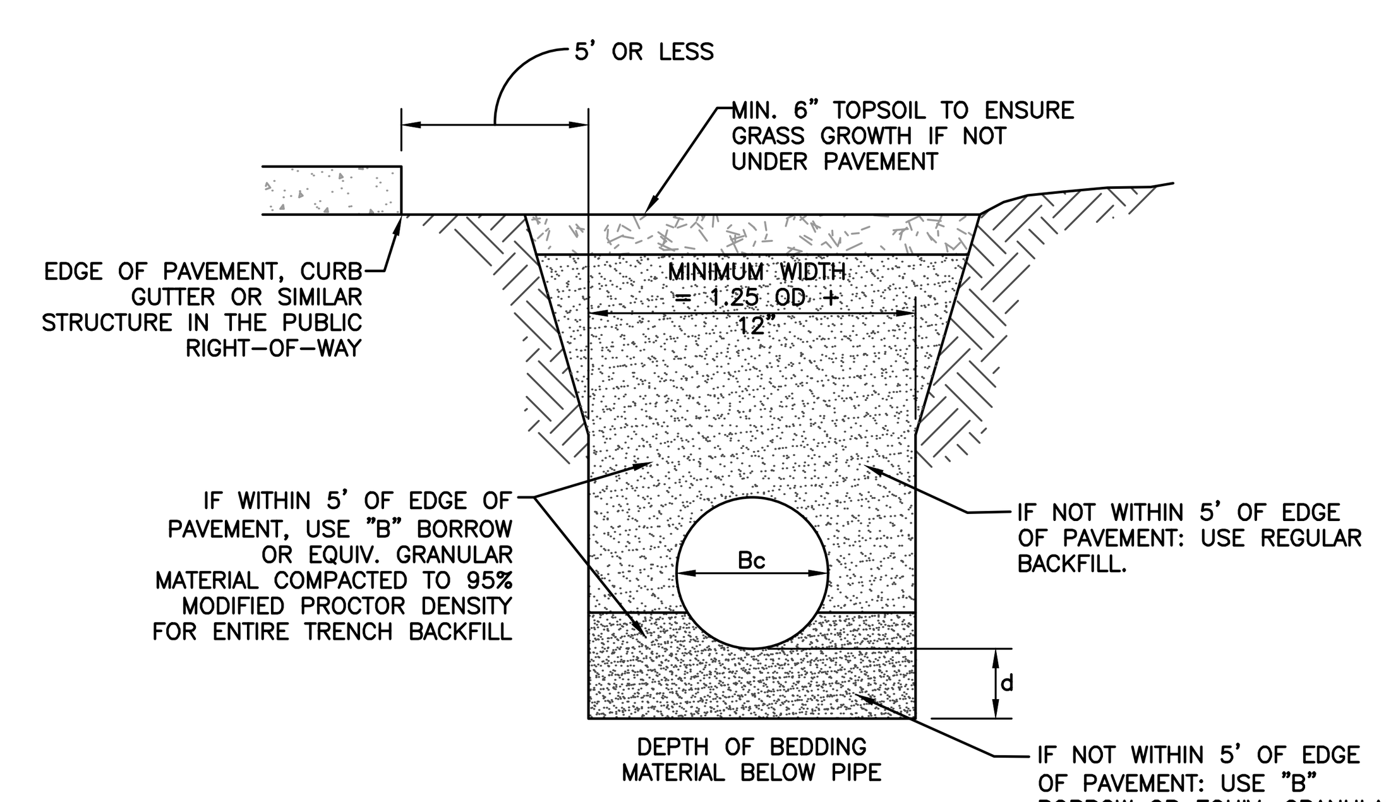
DRAWN BY:	DATE:	SCALE:		
TJF	12/13/24	N.T.S.	V1	SHEET 1 OF 1

StormTrap®
PATENTS LISTED AT: [HTTP://STORMTRAP.COM/PATENT]
1287 WINDHAM PARKWAY
ROMEOVILLE, IL 60446
P:815-941-4549
F:331-318-5347

DETAIL 402- STORMTRAP STORMSETTLER SSET-5
NOT TO SCALE



DETAIL 408: TYPICAL DOWNSPOUT CONNECTION TO ROOF DRAIN DETAIL
NOT TO SCALE



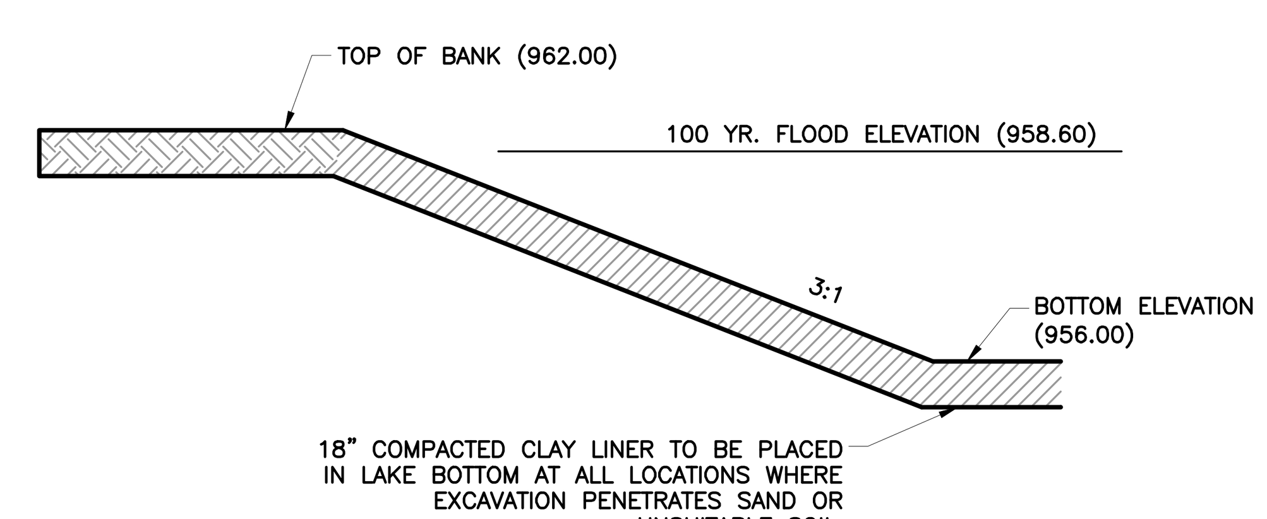
LEGEND
Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

ID	d (MIN)
27" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"

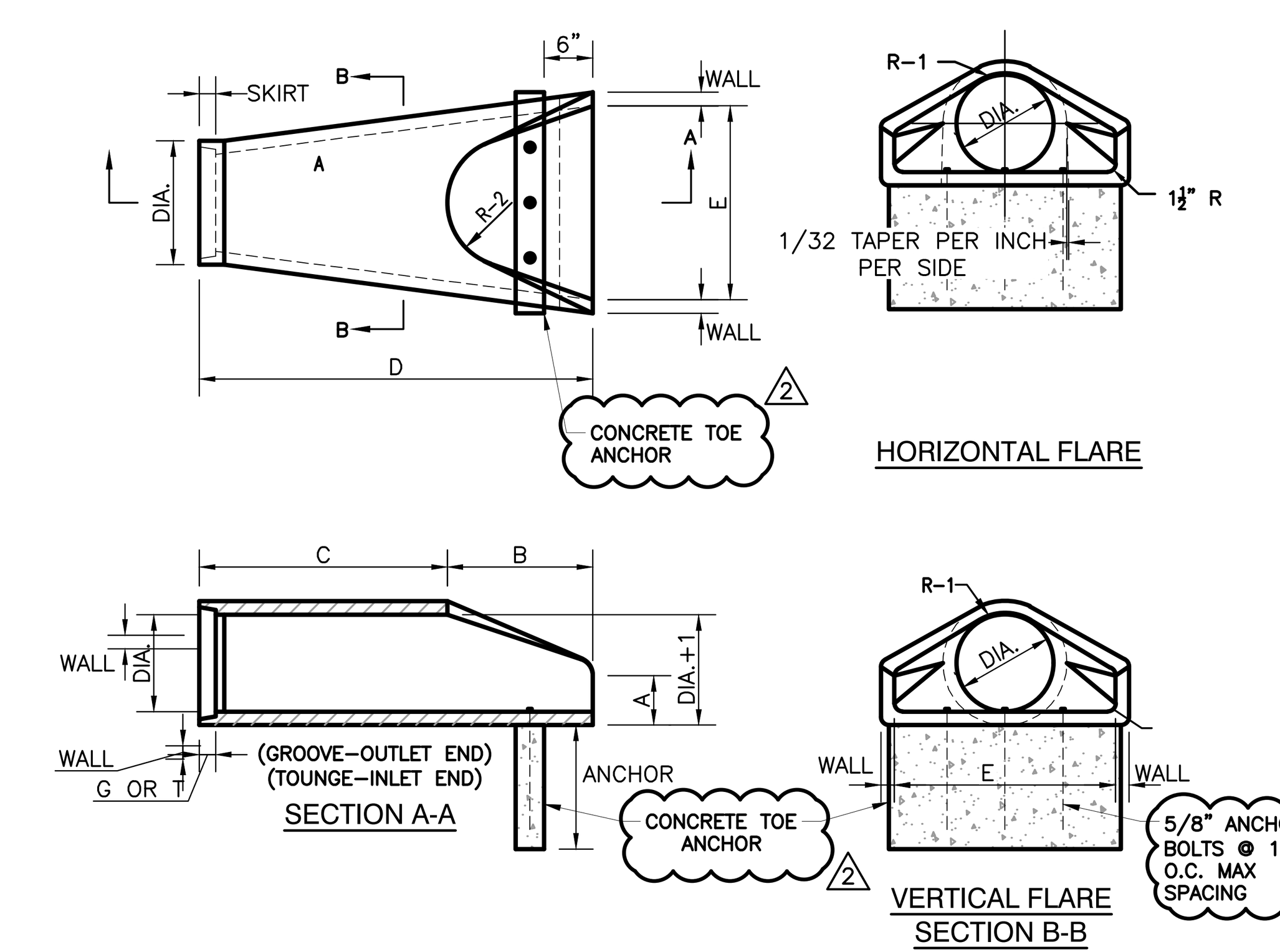
NOTES:

1. ALL BEDDING & INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS
2. A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

DETAIL 404 - REINFORCED CONCRETE PIPE (RCP) BEDDING/TRENCH DETAIL
NOT TO SCALE



DETAIL 403- TYPICAL POND SECTION
NOT TO SCALE



Dia.	Wall	G or T	Wt. Sec.	A	B	C	D	E	Dia.+1	R-1	R-2	Skirt	Anchor
12	2	1½	530	4	24	48⅞	72⅞	24	13	10 1/16	9	3½	24
15	21/4	2	740	6	27	46	73	30	16	12½	11	3½	24
18	2½	2½	990	9	27	46	73	36	19	15½	12	4	24
21	2¾	2¼	1280	9	35	38	73	42	22	16⅛	13	4	24
24	3	2½	1520	9½	43½	30	73½	48	25	16 11/16	14	4½	24
27	3¼	2½	1930	10½	48	25½	73½	54	28	17¾	14½	4½	24
30	3½	3	2190	12	54	19¾	73¾	60	31	18 5/16	15	5	24
33	3¾	3⅜	3150	13½	58½	39¼	97¾	66	34	23¾	17½	5½	24
36	4	3½	4100	15	63	34¾	97¾	72	37	24 1/16	20	5½	24
42	4½	3¾	5380	21	63	35	98	78	43	27¼	22	5½	24
48	5	4¼	6550	24	72	26	98	84	49	28⅛	22	5¾	36
54	5½	4¾	8040	27	65	35	100	90	55	32⅞	24	6¼	36
60	6	5	8750	30	60	39	99	96	61	36¾	24	6¾	36
66	6½	5½	10630	24	78	21	99	102	67	35 11/16	24	7¼	36
72	7	6	12520	34	78	21	99	108	73	38⅝	24	7¾	36
78	7½	6½	14430	24	78	21	99	114	79	41 15/16	24	8½	36
84	8	7	16350	24	78	21	99	120	85	44 13/16	24	9	36

NOTE:
1. MANUFACTURE OF END SECTION IS IN ACCORDANCE WITH APPLICABLE PORTIONS OF A.S.T.M. SPECIFICATION C76.

DETAIL 401 - PRECAST CONCRETE FLARED HEADWALLS
NOT TO SCALE

REVISION RECORD

NO	DATE	DESCRIPTION
1	04/04/2025	ADDENDUM #1
2	04/08/2025	ADDENDUM #2

Civil & Environmental Consultants, Inc.
530 E. Ohio Street · Suite G - Indianapolis, IN 46204
317-655-7777 · 877-746-0749
www.cecinc.com

DECATUR COUNTY SCHOOLS TRANSPORTATION BUILDING
2020 N MONTGOMERY RD
GREENSBURG, INDIANA 47240

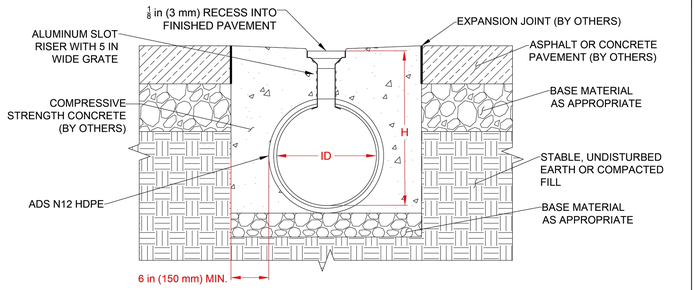
DRAINAGE DETAILS

DATE:	FEBRUARY 12, 2025	DRAWN BY:	SRD
DWG SCALE:	AS NOTED	CHECKED BY:	JMP
PROJECT NO:	341-163	APPROVED BY:	ACH

JONATHAN M. PASYK
REGISTERED
No. PE12100829
STATE OF INDIANA
PROFESSIONAL ENGINEER
02/12/2025

DRAWING NO.:
C802

P:\340-000\341-163\-0400\Dwg\CV01 Schematic Design\341163-CV01-C800.dwg[C802] LS:(4/8/2025 - jpasyk) - LP: 4/8/2025 3:03 PM



Nominal Diameter, ID, in. (mm)	Depth of Invert, H, in. (mm)	
	Minimum	Maximum
6 (150)	12.50 (318)	30.00 (762)
8 (200)	14.50 (368)	32.00 (813)
10 (250)	16.50 (419)	34.00 (864)
12 (300)	19.00 (483)	48.00 (1219)
15 (375)	22.00 (559)	51.00 (1295)
18 (450)	25.00 (635)	54.00 (1372)
24 (600)	31.25 (794)	60.00 (1524)
30 (750)	38.25 (972)	66.00 (1676)
36 (900)	44.25 (1024)	72.00 (1829)

NOTES:
1. BACKFILL DESIGN SHOULD BE USED FOR HS-20 LOADING APPLICATIONS.
2. SITE ENGINEER TO PROVIDE SITE SPECIFIC DETAILS, SUCH AS CONCRETE STRENGTH.
3. REFER TO ADS TECH NOTE 2.11 FOR ADDITIONAL DESIGN INFORMATION.
4. SLOT RECESS IS NOT INCLUDED IN DEPTH OF INVERT TABLES.

REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	Updated Layers & Logo	KJS	01/09/25	-

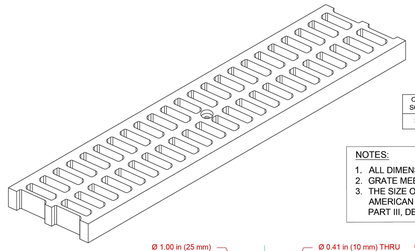
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

Duraslot XL Heavy Traffic Installation

DRAWING NUMBER: STD-14628

ADS Advanced Drainage Systems, Inc. 4640 TRUEMAN BLVD HILLIARD, OHIO 43026

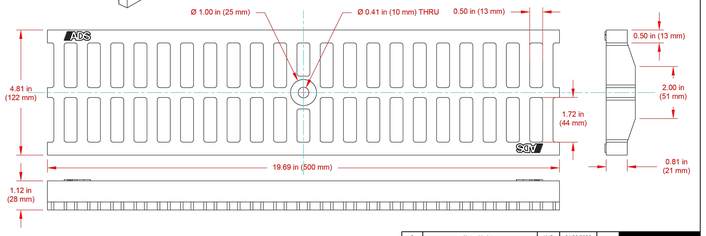
DRAWN BY: KJS | DATE: 06-18-2023 | SCALE: NTS | SHEET: 1 OF 1



STANDARD GRATE INFORMATION

OPEN AREA, SQ IN (SQ CM)	OPEN AREA, %	PRODUCT #
37.44 (242)	39.5	0520DIS

NOTES:
1. ALL DIMENSIONS ARE FOR REFERENCE ONLY
2. GRATE MEETS HS-25 LOAD RATING PER AASHTO M306-10
3. THE SIZE OF OPENINGS MEET THE REQUIREMENTS OF THE AMERICAN DISABILITY ACT, AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36



REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
2	Notes Update	KJS	01/30/2025	-

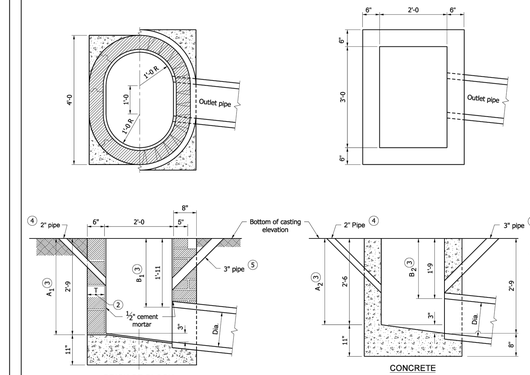
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

Duraslot XL Standard Grate

DRAWING NUMBER: STD-1451

ADS Advanced Drainage Systems, Inc. 4640 TRUEMAN BLVD HILLIARD, OHIO 43026

DRAWN BY: KJS | DATE: 06-18-2023 | SCALE: NTS | SHEET: 1 OF 1



BRICK OR BLOCK

CONCRETE

GENERAL NOTES
1. Brick, block, or concrete may be used.
2. T = 8" for brick structure
   T = 6" for segmental block structure
3. In special cases or where inlet pipe is required, A_1, B_1, A_2, and B_2 shall be increased or decreased 1'-0, as directed.
4. 2" dia. pipe drain from bottom of curb to inlet. Aggregate to be placed around inlet end of pipe.
5. 3" dia. pipe to be kept open for drainage of subgrade or base until surface is placed.

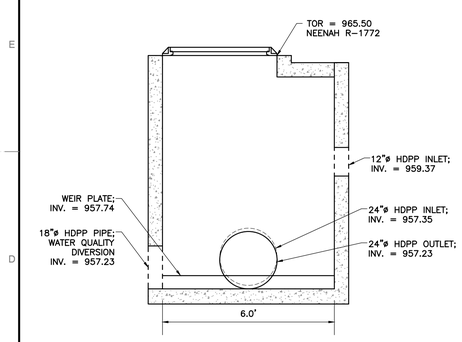
INDIANA DEPARTMENT OF TRANSPORTATION
INLET TYPE J
SEPTEMBER 2008
STANDARD DRAWING NO. E 720- INST-06

RICHARD L. VANCLEAVE — REGISTERED — No. 9750 — STATE OF — INDIANA — PROFESSIONAL ENGINEER

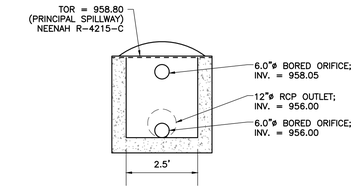
/s/ Richard L. VanCleave	09/02/08
DESIGN STANDARDS ENGINEER	DATE
/s/ Mark A. Miller	09/02/08
CHIEF HIGHWAY ENGINEER	DATE

DESIGN STANDARDS ENGINEER

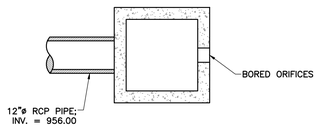
DETAIL 410 - INDOT INLET TYPE "J" DETAIL
NOT TO SCALE



ELEVATION VIEW

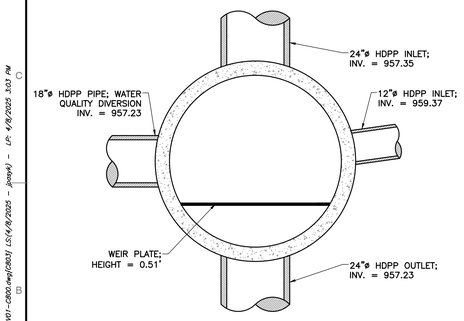


ELEVATION VIEW



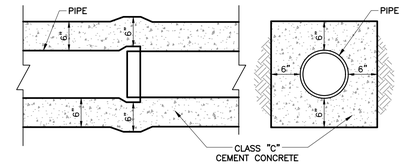
PLAN VIEW

DETAIL 412 - OUTLET CONTROL STRUCTURE
NOT TO SCALE

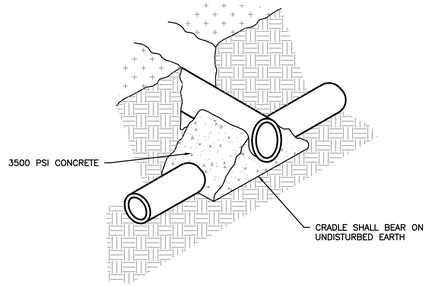


PLAN VIEW

DETAIL 411 - DIVERSION STRUCTURE
NOT TO SCALE



PLAN SECTION

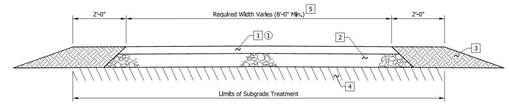


NOTE:
TO BE USED WHEN CLEAR DISTANCE (FROM EXTERIOR PIPE DIAMETER TO EXTERIOR PIPE DIAMETER) BETWEEN SANITARY SEWER PIPING (MAINS, LATERALS, FORCE MAINS, ETC.) AND ALL OTHER PIPES IS 18" OR LESS, PER ENGINEER'S DIRECTION, OR WHERE NOTED ON THE CONSTRUCTION PLANS. A MINIMUM CLEAR DISTANCE OF 3" MUST BE PROVIDED TO MAINTAIN STRUCTURAL INTEGRITY OF THE CONCRETE.

DETAIL 413 - CONCRETE ENCASEMENT DETAIL
NOT TO SCALE

2

NOTE:
1. Construct safety edge as required for Surface and Intermediate layers at edge of pavement.



LEGEND
1. HMA for Sidewalk Consisting of 140 lb/yd² HMA Surface, Type B, on 220 lb/yd² HMA Intermediate, Type B
2. 6" Compacted Aggregate No. 53, Base
3. Earth Shoulder
4. Subgrade Treatment Type III, 6" of Soil Compacted to the Density and Moisture Requirement
5. Width and Cross Slope as Required

INDIANA DEPARTMENT OF TRANSPORTATION
NON-MOTORIZED VEHICLE USE FACILITY
HMA PAVEMENT SECTION
SEPTEMBER 2017
STANDARD DRAWING NO. E 604-NVUF-01

JENNIFER ELIZABETH W. PHILLIPS — REGISTERED — No. 10200124 — STATE OF — INDIANA — PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips	04/27/17
DESIGN STANDARDS ENGINEER	DATE
/s/ John Lecke	04/28/17
CHIEF ENGINEER	DATE

JONATHAN M. PASTA — REGISTERED — No. PE12100829 — STATE OF — INDIANA — PROFESSIONAL ENGINEER
02/12/2025

REVISION RECORD

NO	DATE	DESCRIPTION
1	04/06/2026	ADDENDUM #1
2	04/08/2026	ADDENDUM #2

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530 E. Ohio Street · Suite G · Indianapolis, IN 46204
317-655-7777 · 877-746-0749
www.cecinc.com

DECATUR COUNTY SCHOOLS
TRANSPORTATION BUILDING
2020 N MONTGOMERY RD
GREENSBURG, INDIANA 47240

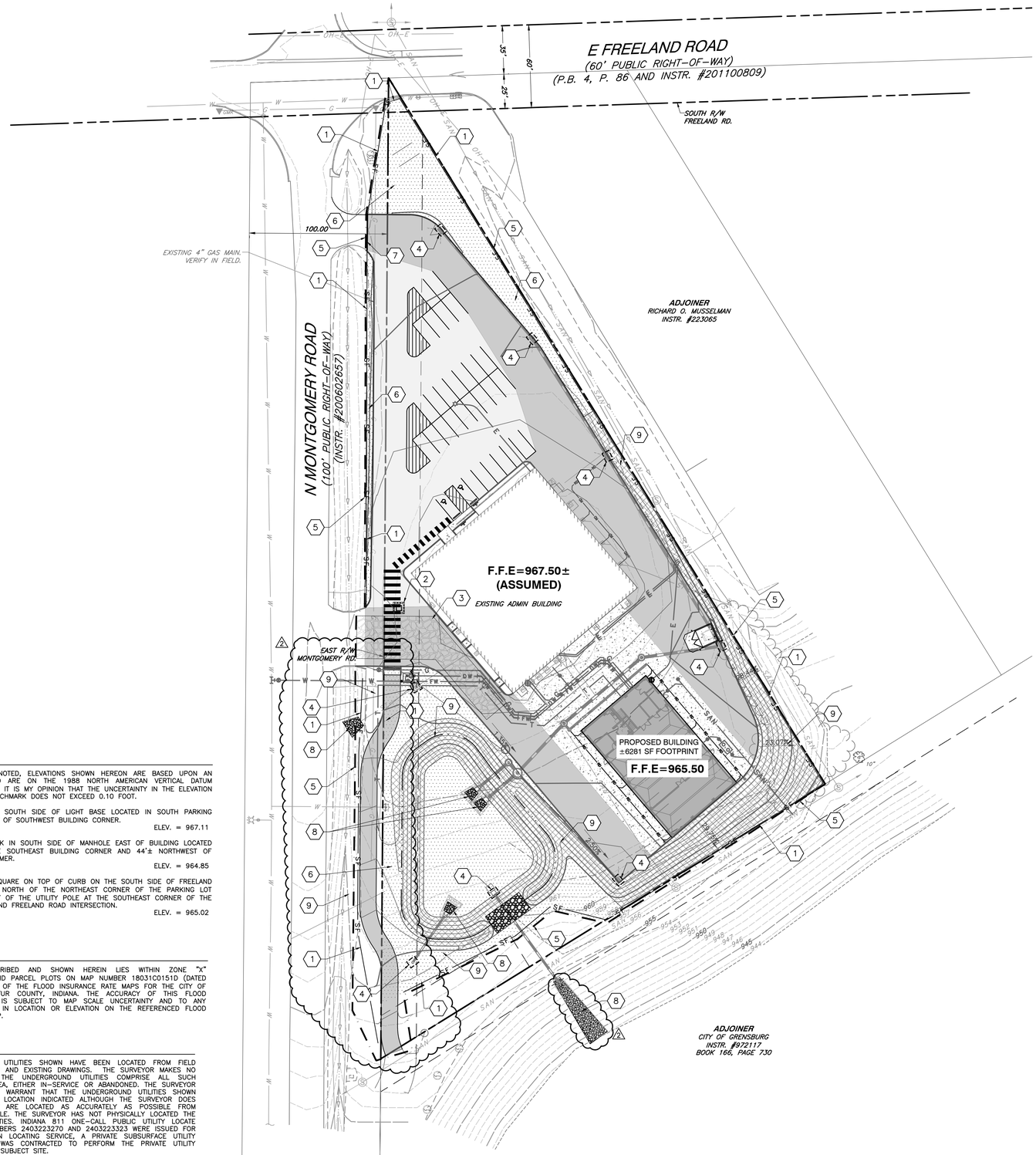
DRAINAGE DETAILS

DATE:	FEBRUARY 12, 2025
DWG SCALE:	AS NOTED
PROJECT NO:	341-163
DRAWN BY:	SRD
CHECKED BY:	JMP
APPROVED BY:	ACH

DRAWING NO.: C803

P:\340-001\341-163\CAD\Dwg\CIVIL Schematic Design\341163-CIVIL-C803.dwg(C803) LS(4/8/2025 - jpope) - LP: 4/8/2025 3:03 PM

NORTH



SCALE IN FEET
0 40' 80'

BENCHMARKS:

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88) (GEOID 18). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: MAGNAIL IN SOUTH SIDE OF LIGHT BASE LOCATED IN SOUTH PARKING LOT 47'± SOUTHWEST OF SOUTHWEST BUILDING CORNER.
ELEV. = 967.11

TBM#2: CHISEL MARK IN SOUTH SIDE OF MANHOLE EAST OF BUILDING LOCATED 64'± NORTH OF THE SOUTHEAST BUILDING CORNER AND 44'± NORTHWEST OF ELECTRICAL TRANSFORMER.
ELEV. = 964.85

TBM#3: CHISELED SQUARE ON TOP OF CURB ON THE SOUTH SIDE OF FREELAND ROAD LOCATED 35'± NORTH OF THE NORTHEAST CORNER OF THE PARKING LOT AND 42'± NORTHEAST OF THE UTILITY POLE AT THE SOUTHEAST CORNER OF THE MONTGOMERY ROAD AND FREELAND ROAD INTERSECTION.
ELEV. = 965.02

FLOOD NOTE:

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONE "X" (UN-SHADED) AS SAID PARCEL PLOTS ON MAP NUMBER 18031C0151D (DATED OCTOBER 16, 2016) OF THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF GREENSBURG, DECATUR COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 2403223270 AND 2403223323 WERE ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICE, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

GENERAL EROSION CONTROL NOTES:

1. CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCES, SILT TRAPS, TREE PROTECTION AND INLET PROTECTION FOR EXISTING INLETS PRIOR TO THE START OF ANY EARTH MOVING OR STRIPPING.
2. CONTRACTOR SHALL INSTALL A STONE CONSTRUCTION ENTRANCE OR SOME OTHER DEVICE PRIOR TO THE START OF EARTHWORK AS NECESSARY TO PREVENT SOIL FROM BEING TRACKED OR WASHED INTO EXISTING ROADWAYS.
3. LAND ALTERATIONS WHICH STRIP THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED. AS GRADING IS DONE, INSTALL SILT TRAPS, SILT FENCES, SLOPE DRAINS, TEMPORARY DIVERSIONS AND OTHER RUNOFF CONTROL MEASURES AT APPROPRIATE LOCATIONS TO KEEP SEDIMENT CONTAINED ON SITE.
4. ALL DISTURBED AREAS SHALL BE SEEDED AND STRAW MULCHED AS SHOWN ON THE PLANS IMMEDIATELY AFTER COMPLETION OF GROUND ACTIVITY. FOR LARGE PROJECTS, THIS SEEDING SHOULD BE COMPLETED IN PHASES AS THE DIFFERENT AREAS OF THE SITE ARE COMPLETED.
5. PERMANENT AND FINAL VEGETATION OR STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICAL UNDER THE CIRCUMSTANCES.
6. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM DEPENDING UPON THE WEATHER. IF CONSTRUCTION ACTIVITY IS TO CEASE FOR MORE THAN TWO WEEKS, THE DISTURBED AREAS SHALL BE TEMPORARILY SEEDED.
7. ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE PUT IN PLACE AT THE TIME EACH INLET IS CONSTRUCTED.
8. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AND DEVICES DURING CONSTRUCTION AND UNTIL SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR.
9. ONCE ONSITE EROSION AND SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY EROSION CONTROL DEVICES.
10. THESE GENERAL PROCEDURES MAY NOT COVER ALL SITUATIONS. REFER TO EROSION CONTROL PLANS FOR SPECIFIC NOTES AND ADDITIONAL DETAILS.
11. DISTURBED AREAS LEFT IDLE OR SCHEDULED TO BE LEFT INACTIVE SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED. STABILIZATION SHALL BE INITIATED BY THE END OF THE SEVENTH DAY (7) THE AREA IS LEFT IDLE AND COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION.
12. EROSION CONTROL TO COMPLY WITH CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) AND INDIANA STORMWATER QUALITY MANUAL.
13. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE COUNTY'S SWPPP INSPECTOR.
14. IF DEWATERING IS DETERMINED NECESSARY INFORM THE ENGINEER AND THE DECATUR COUNTY SOIL & WATER CONSERVATION DISTRICT.
15. A PRE-CONSTRUCTION MEETING WITH THE DECATUR COUNTY SOIL & WATER CONSERVATION DISTRICT IS REQUIRED.

SWPPP LEGEND:

- PROPOSED GRAVEL CONSTRUCTION ENTRANCE
- PROPOSED EROSION CONTROL BLANKET
- PROPOSED RIPRAP
- TEMPORARY SEEDING AREAS
- PROPOSED LIMITS OF DISTURBANCE
- SF — PROPOSED SILT FENCE
- FS — PROPOSED FILTER SOCK
- PROPOSED DITCH
- MAJOR STORMWATER DISCHARGE POINT
- PROPOSED INLET PROTECTION
- PROPOSED CONCRETE WASHOUT

SWPPP ITEMS:

1. SILT FENCE; SEE DETAILS ON SHEET C902.
2. CONCRETE WASHOUT; SEE DETAILS ON SHEET C903.
3. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE; SEE DETAIL ON SHEET C902.
4. INLET PROTECTION; SEE DETAILS ON SHEET C902.
5. LIMITS OF CONSTRUCTION
6. TEMPORARY/PERMANENT SEEDING AREAS PER GENERAL EROSION CONTROL NOTE #11; SEE CHART ON SHEET C903.
7. FILTER SOCK; SEE DETAIL ON SHEET C902.
8. RIP RAP; SEE DETAIL ON SHEET C903.
9. EROSION CONTROL BLANKET; SEE DETAIL ON SHEET C903.

Know what's below. Call before you dig.

JONATHAN M. PLASTY — REGISTERED — No. PE12100829 — STATE OF INDIANA — PROFESSIONAL ENGINEER
02/12/2025

REVISION RECORD

NO	DATE	DESCRIPTION
1	04/04/2025	ADDENDUM #1
2	04/08/2025	ADDENDUM #2

Civil & Environmental Consultants, Inc.
530 E. Ohio Street · Suite G · Indianapolis, IN 46204
317-655-7777 · 877-746-0749
www.cecinc.com

DECATUR COUNTY SCHOOLS
TRANSPORTATION BUILDING
2020 N MONTGOMERY RD
GREENSBURG, INDIANA 47240

STORMWATER POLLUTION PREVENTION PLAN

DATE:	FEBRUARY 12, 2025
DRAWN BY:	SRD
DWG SCALE:	1=40'
DESIGNED BY:	JMP
PROJECT NO:	341-163
APPROVED BY:	ACH

DRAWING NO.:
C900

P:\340-2001\341-163\-CAD\Dwg\C901 Schematic Design\341163-C901-C903.dwg[C900] LS(4/8/2025 - Jersey) - LA 4/8/2025 3:03 PM

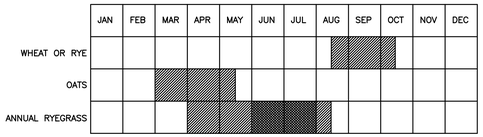
PERMANENT SEEDING						
SPECIES	SEEDING RATE		SUITABLE pH	SITE SUITABILITY*		
	LBS/ACRE	LBS/1000 SQ. FT.		DROUGHTY	WELL DRAINED	WET
LEVEL AND SLOPING, OPEN AREAS						
1. TALL FESCUE	35	.8	5.5–8.3	2	1	2
2. TALL FESCUE	25	.6	5.5–8.3			
RED CLOVER	5	.12				
3. KENTUCKY BLUEGRASS	15	.4	5.8–7.5	2	1	
CREEPING RED FESCUE	15	.4				
STEEP BANKS AND CUTS						
4. TALL FESCUE	15	.4	5.8–7.5	2	1	2
KENTUCKY BLUEGRASS	25	.6				
5. TALL FESCUE	35	.8	5.5–8.3	2	1	
LAWNS AND HIGH MAINTENANCE AREAS						
6. KENTUCKY BLUEGRASS	40	.9	5.8–7.5	2	1	
CREEPING RED FESCUE	40	.9				
7. PERENNIAL RYEGRASS (TURF TYPE)	170	4.0	5.0–7.5		1	
8. TALL FESCUE	170	4.0	5.5–8.3	2	1	2

* 1 – PREFERRED 2 – WILL TOLERATE

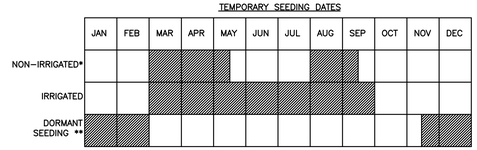
TEMPORARY SEEDING			
TYPE OF SEED	1000 SQ. FT. ACRE		REMARKS
WHEAT OR RYE	3.5 LBS.	2 BU.	COVER SEED 1" TO 1 1/2" DEEP
SPRING OATS	2.3 LBS.	3 BU.	COVER SEED 1" DEEP
ANNUAL RYEGRASS	1 LB.	40 LB.	COVER SEED 1/4" DEEP

* NOT NECESSARY WHERE MULCH IS APPLIED.

PERMANENT SEEDING DATES



TEMPORARY SEEDING DATES



IRRIGATION NEEDED DURING THIS PERIOD. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS. USE MULCH.

* LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED.

** INCREASE SEEDING APPLICATION BY 50%.

	SOIL CONDITION			SHADE TOLERANCE	CLOSE MOWING TO 1 1/2 INCHES	TRAMPING TOLERANCE	FERTILITY NEEDS	WINTER HARDINESS	FLOODING TOLERANCE (DAYS)	MATURE HEIGHT (INCHES)	ESTABLISHMENT TIME (DAYS)	SOIL TOLERANCE		
	WET	NORM	DRY									GEN.	SOIL	SPRAY
CREEPING RED FESCUE FESTUCA RUBRA	2	1	2	1	1	1	MED.	1	20–25	12–18	7–21			S
KENTUCKY BLUEGRASS POA PROTINSIS	2	1	2	1	1	1	MED.	1	20–35	12–18	10–20			MT
TALL FESCUE FESTUCA L. ARUNDINACEA	2	1	1	1	1	1	LOW	1	24–35	24–36	5–14		T	
PERENNIAL RYEGRASS LOLLUM PERENNE	2	1	2	–	1	2	MED. HIGH	2	15–20	12–18	5–10		MT	
RED CLOVER TRIFOLIUM PROTENSE	–	1	–	2	–	–	MED.	1	7–10	18	5–10	S	S	

RANKING:
1 GOOD
2 MEDIUM
– NOT TOLERANT

SALT TOLERANCE (TO BOTH SOIL SALTS & SPRAY)
T TOLERANCE
MT MEDIUM TOLERANCE
S SLIGHT TOLERANCE

SEEDBED PREPARATION

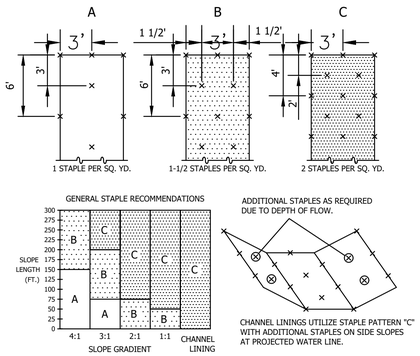
1. APPLY LIME TO RAISE THE pH TO THE LEVEL AS NEEDED FOR SPECIES BEING SEEDED.
2. APPLY 23 POUNDS OF PHOSPHOROUS FREE FERTILIZER: 12–0–12 ANALYSIS (OR EQUIVALENT) PER 1000 SQ. FT. (APPROXIMATELY 1000 POUNDS PER ACRE) OR FERTILIZE ACCORDING TO TEST. APPLICATION OF 150 LBS. OF AMMONIUM NITRATE ON AREAS LOW IN ORGANIC MATTER AND FERTILITY WILL GREATLY ENHANCE VEGETATIVE GROWTH.
3. WORK THE FERTILIZER AND LIME INTO THE SOIL TO A DEPTH OF 2–4 INCHES WITH A HARROW, DISK OR RAKE OPERATED ACROSS THE SLOPE AS MUCH AS POSSIBLE.

SEEDING

SELECT A SEED MIXTURE BASED ON PROJECTED USE OF THE AREA (SEE PERMANENT SEED MIXTURE CHART). WHILE CONSIDERING BEST SEEDING DATES. IF PERMANENT SEEDING IS NOT PERMITTED USE TEMPORARY SEEDING UNTIL PERMANENT SEEDING CAN BE APPLIED. IF TOLERANCES ARE A PROBLEM, SUCH AS SALT TOLERANCE OF SEEDINGS ADJACENT TO STREETS AND HIGHWAYS, SEE SEED TOLERANCE CHART.

DETAIL #900 - SEEDING SCHEDULE

NOT TO SCALE

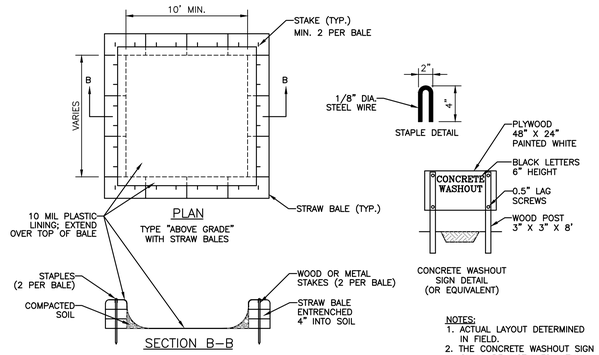


STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE ANNUAL RAINFALL.

AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED.

DETAIL #903 - EROSION CONTROL MATTING

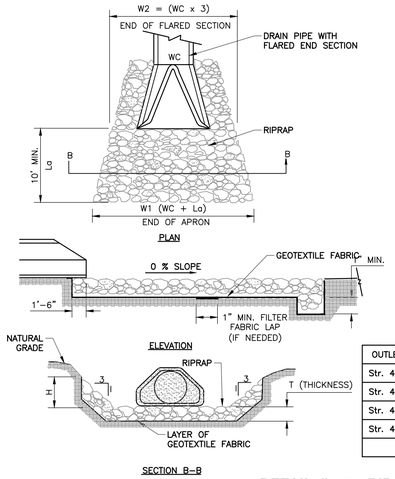
NOT TO SCALE



NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

DETAIL #904 - CONCRETE WASHOUT

NOT TO SCALE



NOTES:

1. CLASS OR MEDIAN SIZE OF RIPRAP AND LENGTH, WIDTH AND DEPTH OF APRON TO BE DESIGNED BY THE ENGINEER AND ARE SUMMARIZED BELOW.
2. RIPRAP SHOULD EXTEND UP BOTH SIDES OF THE APRON AND AROUND THE END OF THE PIPE OR CULVERT AT THE DISCHARGE OUTLET AT A MAXIMUM SLOPE OF 2:1 AND A HEIGHT NOT LESS THAN TWO THIRDS THE PIPE DIAMETER OR CULVERT HEIGHT.
3. THERE SHALL BE NO OVERFLOW FROM THE END OF THE APRON TO THE SURFACE OF THE RECEIVING CHANNEL. THE AREA TO BE PAVED OR RIPRAPPED SHALL BE UNDERCUT SO THAT THE INVERT OF THE APRON SHALL BE AT THE SAME GRADE (FLUSH) WITH THE SURFACE OF THE RECEIVING CHANNEL. THE APRON SHALL HAVE A CUTOFF OR TOE WALL AT THE DOWNSTREAM END.
4. THE WIDTH OF THE END OF THE APRON SHALL BE EQUAL TO THE BOTTOM WIDTH OF THE RECEIVING CHANNEL. MAX. TAPER TO RECEIVING CHANNEL 5:1.
5. ALL SUBGRADE FOR STRUCTURE TO BE COMPACTED TO 95% OR GREATER.
6. THE PLACING OF FILL, EITHER LOOSE OR COMPACTED IN THE RECEIVING CHANNEL SHALL NOT BE ALLOWED.
7. NO BENDS OR CURVES IN THE HORIZONTAL ALIGNMENT OF THE APRON WILL BE PERMITTED.
8. FILTER FABRIC SHALL BE INSTALLED ON COMPACTED SUBGRADE PRIOR TO PLACEMENT OF RIPRAP.
9. ANY DISTURBED AREA FROM END OF APRON TO RECEIVING CHANNEL MUST BE STABILIZED.

OUTLET	Lg ⚠2	W1	W2	WC	T	H	d_{50}	d_{MAX}
Str. 400	45 lf	11 ft.	3 ft.	12"	18 in.	18 in.	5 in.	5 in.
Str. 402	10 lf	11 ft.	3 ft.	12"	18 in.	18 in.	5 in.	5 in.
Str. 404	10 lf	11.5 ft.	4.5 ft.	18"	18 in.	18 in.	5 in.	5 in.
Str. 406	10 lf	12 ft.	6 ft.	24"	18 in.	18 in.	5 in.	5 in.

DETAIL #907 - RIP RAP APRON DETAIL

NOT TO SCALE

REVISION RECORD

NO	DATE	DESCRIPTION
1	04/04/2025	ADDENDUM #1
2	04/08/2025	ADDENDUM #2

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DECATUR COUNTY SCHOOLS
TRANSPORTATION BUILDING
2020 N MONTGOMERY RD
GREENSBURG, INDIANA 47240

STORMWATER POLLUTION PREVENTION DETAILS

DATE:	FEBRUARY 12, 2025
DWG SCALE:	AS NOTED
PROJECT NO.	341-163
DRAWN BY:	SRD
CHECKED BY:	JMP
APPROVED BY:	ACH

DRAWING NO.:
C903

Indiana 811 Know what's below. Call before you dig.

JONATHAN M. PLASTY REGISTERED No. PE12100829 STATE OF INDIANA PROFESSIONAL ENGINEER
02/12/2025

P:\340–2001\341–163\–CAD\Dwg\C901 Schematic Design\341163–C901–C903.dwg[C903] LS:4/8/2025 – jplasty – LP: 4/8/2025 3:04 PM